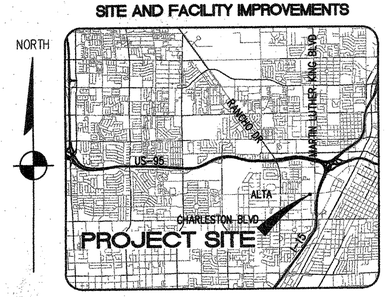
DEPARTMENT OF PUBLIC WORKS

SITE AND FACILITY IMPROVEMENTS



VICINITY MAP
SCALE: 1" = 600'

Mayor:
CAROLYN G. GOODMAN

City Council:
STEVEN D. ROSS (Mayor Pro-Tem)
LOIS TARKANIAN
RICKI Y. BARLOW
STAVROS S. ANTHONY
BOB COFFIN
BOB BEERS

City Manager:
ELIZABETH N. FRETWELL

Director of Public Works:
DAVID N. BOWERS, P.E., P.T.O.E.

City Engineer:
ALLEN E. PAVELKA, P.E.

SDR-61910 [PRJ-61909] CONDITIONS DATED 1/12/2016

PLANNING

1. APPROVAL OF AND CONFORMANCE TO THE CONDITIONS OF APPROVAL FOR REZONING Z-65-91 SHALL BE REQUIRED, IF APPROVED.
2. THIS APPROVAL SHALL BE VOID TWO YEARS FROM THE DATE OF FINAL APPROVAL, UNLESS EXERCISED PURSUANT TO THE PROVISIONS OF LVMC TITLE 19.16. AN EXTENSION OF TIME MAY BE FILED FOR CONSIDERATION BY THE CITY OF LAS VEGAS.
3. THE PROPOSED FENCE AND CMU PARKING LOT SCREEN WALL DEPICTED ON THE SITE PLAN DATED 11/24/15 SHALL MEET ALL AESTHETIC AND DIMENSIONAL REQUIREMENTS OF THE UNIFIED DEVELOPMENT CODE.
4. THE PROPOSED TRASH ENCLOSURE SHALL HAVE SOLID METAL GATES, A ROOF OR TRELLIS STRUCTURE, AND MEET ALL OTHER REQUIREMENTS OF THE UNIFIED DEVELOPMENT CODE.
5. ALL DEVELOPMENT SHALL BE IN CONFORMANCE WITH THE SITE PLAN, LANDSCAPE PLAN, AND BUILDING ELEVATIONS, DATE STAMPED 11/24/15 EXCEPT AS AMENDED BY CONDITIONS HEREIN.
6. A WAIVER FROM THE LAS VEGAS MEDICAL DISTRICT "TYPE C" STREETSCAPE STANDARDS IS HEREBY APPROVED TO ALLOW A FIVE-FOOT SIDEWALK WITH NO LANDSCAPING AND A FIVE-FOOT INTERIM LANDSCAPE ROCK AREA AT THE BACK OF SIDEWALK ALONG THE NORTH PROPERTY LINE.
7. AN EXCEPTION FROM 19.08.110 IS HEREBY APPROVED TO ALLOW ZERO PARKING LOT LANDSCAPE ISLANDS WHERE ONE IS REQUIRED FOR EVERY SIX SPACES.
8. ALL NECESSARY BUILDING PERMITS SHALL BE OBTAINED AND FINAL INSPECTIONS SHALL BE COMPLETED IN COMPLIANCE WITH TITLE 19 AND ALL CODES AS REQUIRED BY THE DEPARTMENT OF BUILDING AND SAFETY.
9. THESE CONDITIONS OF APPROVAL SHALL BE AFFIXED TO THE COVER SHEET OF ANY PLAN SET SUBMITTED FOR BUILDING PERMIT.
10. 24-INCH BOX PERIMETER AND STREET TREES SHALL BE A MAXIMUM OF 30 FEET ON-CENTER ALONG THE EAST PROPERTY LINE AND 20 FEET ON CENTER ALONG THE NORTH PROPERTY LINE
11. A TECHNICAL LANDSCAPE PLAN, SIGNED AND SEALED BY A REGISTERED ARCHITECT, LANDSCAPE ARCHITECT, RESIDENTIAL DESIGNER OR CIVIL ENGINEER, MUST BE SUBMITTED PRIOR TO OR AT THE SAME TIME APPLICATION IS MADE FOR A BUILDING PERMIT. A PERMANENT UNDERGROUND SPRINKLER SYSTEM IS REQUIRED, AND SHALL BE PERMANENTLY MAINTAINED IN A SATISFACTORY MANNER; THE LANDSCAPE PLAN SHALL INCLUDE IRRIGATION SPECIFICATIONS. INSTALLED LANDSCAPING SHALL NOT IMPEDE VISIBILITY OF ANY TRAFFIC CONTROL DEVICE.
12. A FULLY OPERATIONAL FIRE PROTECTION SYSTEM, INCLUDING FIRE APPARATUS ROADS, FIRE HYDRANTS AND WATER SUPPLY, SHALL BE INSTALLED AND SHALL BE FUNCTIONING PRIOR TO CONSTRUCTION OF ANY COMBUSTIBLE STRUCTURES.
13. ALL CITY CODE REQUIREMENTS AND DESIGN STANDARDS OF ALL CITY DEPARTMENTS MUST BE SATISFIED, EXCEPT AS MODIFIED HEREIN.

PUBLIC WORKS

14. GRANT PEDESTRIAN ACCESS EASEMENTS FOR ALL SIDEWALK AREAS LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY.
15. UNLESS OTHERWISE ALLOWED BY THE CITY ENGINEER, REMOVE ALL SUBSTANDARD PUBLIC STREET IMPROVEMENTS AND UNUSED DRIVEWAY CUTS ADJACENT TO THIS SITE, IF ANY, AND REPLACE WITH NEW IMPROVEMENTS MEETING MEDICAL DISTRICT STANDARDS CONCURRENT WITH DEVELOPMENT OF THIS SITE.
16. CORRECT ALL AMERICAN'S WITH DISABILITIES ACT (ADA) DEFICIENCIES ON THE SIDEWALKS AND SIDEWALK RAMPS ADJACENT TO THIS SITE IN ACCORDANCE WITH CODE REQUIREMENTS OF TITLE 13.56.040 TO THE SATISFACTION OF THE CITY ENGINEER CONCURRENT WITH DEVELOPMENT OF THIS SITE. A "PAN STYLE" DRIVEWAY ON DESERT LANE MAY BE USED AS LONG AS THE SIDEWALK PATH ALONG DESERT LANE COMPLIES WITH AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES.
17. CONSTRUCT A 10-FOOT SIDEWALK ON DESERT LANE TO MEET MEDICAL DISTRICT STANDARDS ADJACENT TO THIS SITE CONCURRENT WITH THE DEVELOPMENT OF THIS SITE. THE REQUIRED 10-FOOT WIDE SIDEWALK ON ALTA DRIVE IS HEREBY DEFERRED FOR THIS PROJECT, AS IT WILL BE CONSTRUCTED WITH A FUTURE ALTA DRIVE PUBLIC IMPROVEMENT PROJECT.
18. CONTACT THE CITY ENGINEER'S OFFICE AT 702-229-6272 TO COORDINATE THE DEVELOPMENT OF THIS PROJECT WITH THE "ALTA DRIVE WIDENING" PROJECT AND ANY OTHER PUBLIC IMPROVEMENT PROJECTS ADJACENT TO THIS SITE. COMPLY WITH THE RECOMMENDATIONS OF THE CITY ENGINEER.
19. LANDSCAPE AND MAINTAIN ALL UNIMPROVED RIGHTS-OF-WAY, IF ANY, ADJACENT TO THIS SITE. ALL LANDSCAPING AND PRIVATE IMPROVEMENTS INSTALLED WITH THIS PROJECT SHALL BE SITUATED AND MAINTAINED SO AS TO NOT CREATE SIGHT VISIBILITY OBSTRUCTIONS FOR VEHICULAR TRAFFIC AT ALL DEVELOPMENT ACCESS DRIVES AND ABUTTING STREET INTERSECTIONS.
20. MEET WITH THE FIRE PROTECTION ENGINEERING SECTION OF THE DEPARTMENT OF FIRE SERVICES TO DISCUSS FIRE REQUIREMENTS FOR THE PROPOSED USE OF THIS FACILITY.
21. MEET WITH THE FLOOD CONTROL SECTION OF THE DEPARTMENT OF PUBLIC WORKS FOR ASSISTANCE WITH ESTABLISHING FINISHED FLOOR ELEVATIONS AND DRAINAGE PATTERNS FOR THIS SITE PRIOR TO SUBMITTAL OF CONSTRUCTION PLANS OR THE ISSUANCE OF ANY BUILDING OR GRADING PERMITS, WHICHEVER MAY OCCUR FIRST. PROVIDE AND IMPROVE ALL DRAINAGE WAYS AS RECOMMENDED.

ALL UTILITY AND SITEWORK SHALL COMPLY WITH THE APPROVED CIVIL PLANS.

PERMITS REQUIRED FROM THE FIRE DEPARTMENT PRIOR TO INSTALLATION OF ON-SITE FIRE WATER / FIRE HYDRANTS; FIRE EXTINGUISHING SYSTEMS; FIRE ALARMS SYSTEMS; FLAMMABLE/ COMBUSTIBLE LIQUID TANKS; COOKING OIL RECOVERY SYSTEMS; COMPRESSED GAS / CO2 SYSTEMS

REVIEWED

BY _____ 5-2-16

LAS VEGAS FIRE DEPARTMENT

ALTA DAYCARE UPGRADES

ALTA DRIVE AND DESERT LANE
1617 ALTA DRIVE
LAS VEGAS, NV 89106
APN: 139.33.304.018

AS BUILT

Reviewed By:

CITY ENGINEER ALLEN PAVELKA PE, #9029 — DATE 5-2-16

APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY, AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIALLY LISTED UNDER DEVIATIONS FROM STANDARDS. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARDS IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, CLARK COUNTY AREA, NEVADA.

LAS VEGAS FIRE AND RESCUE — DATE 3/28/16

CHRIS KNIGHT, DIRECTOR — DATE 5-2-16
BUILDING AND SAFETY DEPARTMENT
THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE PLANNING DEPARTMENT

SOUTHWEST GAS CORPORATION — DATE 3.24.16

CENTRAL TELEPHONE COMPANY — DATE 3-28-16
d/b/a CENTURYLINK
THE AFFIXED CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION STANDARD REGULATIONS.

NV ENERGY – DISTRIBUTION — DATE 3-24-16
NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
SHEETS: CV-1, G1.01, G1.02, C1.01, C2.01, C2.02, C4.02, C4.03
DATE: 4/19/16 — PROJECT# 124440
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

RECEIVED
MAY 5 2016
CITY OF LAS VEGAS
PERMITS

THE SIGNATURE ABOVE ACKNOWLEDGES THAT THE UTILITY COMPANY REPRESENTATIVE HAS REVIEWED THE PLANS, AND THAT TO THE BEST OF HIS OR HER KNOWLEDGE THE UTILITY LINES ARE SHOWN IN THE CORRECT LOCATIONS AND ARE THE CORRECT SIZES. WHILE SUCH DATA HAS BEEN COLLECTED WITH REASONABLE CARE, THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE LOCATIONS ARE EXACT. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF OBTAINING THE ACTUAL FIELD LOCATIONS.

THE SIGNATURE ABOVE FURTHER ACKNOWLEDGES THAT THE UTILITY COMPANY DOES NOT ANTICIPATE CONSTRUCTION OR MAINTENANCE IN THE PROJECT AREA FOR FIVE (5) YEARS IN CONFORMANCE WITH THE CLV NO-CUT POLICY.

PLANS APPROVED
PLANNING
Building & Safety Dept.
City of Las Vegas, Nevada
JA MAY 11 2016
Conforms to the minimum requirements of LVMC Title 19, applicable Master Plan development standards and/or Conditions of Approval. Make No Change Without Approval. Plan Is Not a Permit to Violate Any Ordinance.

THESE PLANS WERE CHECKED UNDER THE 2012 IRC, THE 2011 NEC, AND THE 2012 IBC, UPC, AND UMC

RECEIVED CLV
MAY 5 '16 63325
CITY OF LAS VEGAS

CLV BID NO. 15.60316.JH
107V6612 H# 63362 H# 60316

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
COVER SHEET
CLV

STAMP
PROFESSIONAL ENGINEER, STATE OF NEVADA
HELENA MURVOSH
Expr. 12/31/17
No. 016830

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4546
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	CV–1
	1 OF 17

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE, AND SHALL REMAIN THE PROPERTY OF THE OWNER WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED HAS BEEN EXECUTED OR NOT. THE VISUAL CONTRACTS WITH RESPECT TO THE USE OF THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE USED BY THE OWNER OR ANYONE ON THE OWNER'S BEHALF FOR EXTENSIONS OF THE PROJECT OR ANY OTHER PROJECT OR ADDITIONS TO THIS PROJECT OR COMPLETION OF ANY OTHER PROJECT BY ANY OTHER ENTITY WITHOUT WRITTEN PERMISSION AND ADJUSTMENT BY THE ENGINEER AND APPROPRIATE COMPENSATION TO THE ENGINEER.

R:\V6146.01.01 – Alta Daycare\11–CAD\06–Drawings\01–C–26146–CVSheet Mar 24, 2016 – 8:12am

ABBREVIATIONS

@	AT	LF	LINEAL FOOT, LINEAR FEET
AB	ABANDONED	LT	LEFT
AC	ASPHALTIC CONCRETE	LVVWD	LAS VEGAS VALLEY WATER DISTRICT
ACP	ASBESTOS CEMENT PIPE	MH	MANHOLE
ACCT	ACCOUNT	MLCP	MULTI-LAYER COMPOSITE PIPE
AEP	AUTHORIZATION TO ENTER PROPERTY	MTR	METER
APN	ASSESSOR'S PARCEL NUMBER	NDOT	NEVADA DEPT OF TRANSPORTATION
APPROX	APPROXIMATE	NTS	NOT TO SCALE
AVAR	AIR VALVE ASSEMBLY	NVE	NV ENERGY
B/C, BC	BACK OF CURB	OHP	OVERHEAD POWER LINE
BCR	BACK OF CURB RADIUS	PB	PULL BOX
BM	BENCHMARK	PC	POINT OF CURVATURE
BOT	BOTTOM	PE	POLYETHYLENE PIPE
BR	BACK OF RAMP	P.I.P.	PROTECT IN PLACE
BW	BOTTOM OF WALL	PP	POWER POLE
C & G	CURB AND GUTTER	PRC	POINT OF REVERSE CURVE
CATV, TV	CABLE TELEVISION	PT	POINT OF TANGENCY
CC	CLARK COUNTY	℄, PL	PROPERTY LINE
CCPW	CLARK COUNTY PUBLIC WORKS	PVC	POLYVINYL CHLORIDE PIPE
CIPP	CURED-IN-PLACE PIPE	R	RADIUS
℄, CL	CENTERLINE	RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
CLSM	CONTROLLED LOW STRENGTH MATERIAL	RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY
CLV	CITY OF LAS VEGAS		
CMP	CORRUGATED METAL PIPE	R/W, R.O.W.	RIGHT OF WAY
CONC	CONCRETE	SCCP	STEEL CYLINDER CONCRETE PIPE
COND	CONDUCTOR	SD	STORM DRAIN
CPM	CAPITAL PROJECT MANAGEMENT	SF	SQUARE FOOT
CU	COPPER	SP	SPECIAL PROVISIONS
D, DIA	DIAMETER	SS	SANITARY SEWER
DCVA	DOUBLE CHECK VALVE ASSEMBLY	STA	STATION
DG	DECOMPOSED GRANITE	STD	STANDARD
D/W	DRIVEWAY	STL	STREET LIGHT
DWG	DRAWING	SV	SPRINKLER VALVE
EOR	END OF CURB RETURN (AT B/C)	S/W	SIDEWALK
EG	EXISTING GRADE	SWG	SOUTHWEST GAS
ELEC	ELECTRIC	SY	SQUARE YARD
ELEV	ELEVATION	T, TEL	TELEPHONE
ESMT	EASEMENT	TC	TOP OF CURB
EOP, EP	EDGE OF PAVEMENT	TCE	TEMP. CONSTRUCTION EASEMENT
EX.	EXISTING	TEMP	TEMPORARY
FC	FACE OF CURB	TF	TOP OF FOOTER
FD	FOUND	TRANS	TRANSITION
FF	FINISHED FLOOR	TRC	TOP OF RAMP CURB
FG	FINISHED GRADE	TS	TRAFFIC SIGNAL
FH, HYD	FIRE HYDRANT	TW	TOP OF WALL
FT	FOOT, FEET	TYP	TYPICAL
FL	FLOW LINE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
G	GAS		
GB	GRADE BREAK	USD	UNIFORM STANDARD DRAWING
GM	GAS METER	USDCCA	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
GV	GAS VALVE		
GW	GUY WIRE	USS	UNIFORM STD SPECIFICATIONS
HP	HIGH PRESSURE	W	WATER LINE
INT	INTERSECTION	WC	WHEEL CHAIR
IRR	IRRIGATION	WM	WATER METER
IQAC	INTER-AGENCY QUALITY ASSURANCE	WV	WATER VALVE
L	LENGTH	W/	WITH
		Δ	INCLUDED DELTA ANGLE

ALL ABBREVIATIONS, LINE TYPES, AND SYMBOLS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS

LEGEND

- CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- AUTHORIZATION TO ENTER PROPERTY (AEP)
- PATCH / SAWCUT LINE
- CMU WALL
- ALUMINUM FENCE
- TYPE "A" CURB
- MATCHLINE
- EX WATER LINE
- PROPOSED WATER LINE
- EX SANITARY SEWER LINE
- EX STORM DRAIN LINE
- EX GAS LINE
- EX TELEPHONE LINE
- EX FIBER OPTIC
- 4" PERFORATED PIPE
- TRENCH DRAIN

- AREA LIGHT
- BENCHMARK
- ELEC. VAULT/CABINET
- ELECTRIC MANHOLE
- ELECTRIC METER
- FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- FOUND MONUMENT
- GAS METER
- GAS VALVE
- IRR. CONTROLLER
- IRR. VALVE
- LOOP DETECTOR
- SANITARY SEWER MH
- SET MONUMENT
- SIDEWALK RAMP
- PROPOSED SIGN
- STORM DRAIN INLET
- STORM DRAIN MH
- STREET LIGHT
- STREET LIGHT PB
- TELEPHONE MH
- TELEPHONE PB
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL PB
- TV PULLBOX
- UTILITY POLE
- UTILITY POLE GUY WIRE
- UTILITY VAULT
- WATER VAULT/CABINET
- WATER MANHOLE
- WATER METER
- WATER VALVE

BASIS OF BEARINGS

PARCEL 1 OF PARCEL MAP FILE 120-0081 LYING IN THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN. THE REFERENCE FRAME UTILIZED BEING NAD 83 (2011) EPOCH 2010.0.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 2LV0133C4
DESCRIPTION: RIVET AND PLATE IN TOP OF CURB AT SOUTHWEST CORNER OF ALTA DRIVE AND MARTIN L. KING BOULEVARD
ELEVATION: 2046.43 FEET (NAVD88 – 2008 CLV ADJUSTMENT)

FEMA FIRM PANEL INFORMATION

THE PROJECT IS LOCATED IN FLOOD ZONE "X", REFERENCED BY FIRM, FLOOD INSURANCE RATE MAPS, CLARK COUNTY, NEVADA AND INCORPORATED AREAS, PANEL 2170 OF 4090. MAP NUMBER 32003C2170F, DATED NOVEMBER 16, 2011.

(ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.)

SHEET INDEX

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H1.02 6 OF 17	HORIZONTAL CONTROL 2
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C2.01 8 OF 17	CIVIL SITE PLAN 1
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C4.01 11 OF 17	SECTIONS & DETAILS 1
C4.02 12 OF 17	SECTIONS & DETAILS 2
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C4.04 14 OF 17	SECTIONS & DETAILS 4
C4.05 15 OF 17	SECTIONS & DETAILS 5
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S1.2	PLAN VIEW
S2.1	TYPICAL DETAILS
S2.2	TYPICAL DETAILS
L1.01	LANDSCAPE AND IRRIGATION NOTES AND KEY
L1.02	IRRIGATION PLAN
L1.03	IRRIGATION DETAILS
L1.04	IRRIGATION DETAILS
L2.01	PLANT SCHEDULE / LANDSCAPE DETAILS
L2.02	LANDSCAPE PLAN
L3.01	PLAYGROUND EQUIPMENT
G1.00	SYMBOL LEGEND, GENERAL NOTES & ABBREVIATIONS
G1.20	ACCESSIBILITY CLEARANCE STANDARDS
G3.10	CODE AND EXITING PLAN
G4.10	TYPICAL PARTITION FRAMING AND DETAILS
AG1.00	SYMBOL LEGEND, GENERAL NOTES AND ABBREVIATIONS
AG1.20	ACCESSIBILITY CLEARANCE STANDARDS
AG2.10	CODE ANALYSIS
AG3.10	EXITING PLAN
AG4.10	TYPICAL PARTITION FRAMING AND DETAILS
AS1.10	ARCHITECTURAL SITE PLAN
AD2.10	DEMOLITION PLANS
AD2.11	ENLARGED DEMO PLAN
AD2.12	DEMO DETAIL IMAGES
AD3.10	DEMO REFLECTED CEILING PLAN
A2.10	FLOOR PLANS
A2.11	ENLARGED FLOOR PLANS
A3.10	REFLECTED CEILING PLAN
A3.11	CEILING DETAILS
A4.10	ROOF PLAN
A5.10	EXTERIOR ELEVATIONS
A10.10	FINISH PLANS
A10.11	ENLARGED FINISH PLANS
A10.30	INTERIOR ELEVATIONS
A11.10	DOOR SCHEDULE
P0.00	COVER SHEET
P0.01	GENERAL NOTES AND SCHEDULES
PD2.00	WASTE AND VENT DEMO PLANS
PD3.00	DOMESTIC WATER DEMO PLANS
P2.00	WASTE AND VENT PLANS
P3.00	DOMESTIC WATER PLANS
P5.00	PLUMBING ISOMETRIC DIAGRAM
P6.00	DESIGN DETAILS
P6.01	DESIGN DETAILS
M0.00	COVER SHEET
M0.01	GENERAL NOTES AND SCHEDULES
M2.00	MECHANICAL PLANS
M6.00	DESIGN DETAILS
E0.00	COVER SHEET
E0.01	LIGHTING FIXTURE SCHEDULE
ES1.01	ELECTRICAL SITE PLAN
E1.01	LIGHTING PLAN
E2.01	POWER PLAN
E5.01	SINGLE LINE DIAGRAM AND SCHEDULES

APPROVED FOR CONSTRUCTION
4/19/16
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 4/19/16 PROJECT# 124440
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

RECEIVED
MAY 5 2016
CITY OF LAS VEGAS
PERMITS

AS BUILT

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR 1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

107V6612 H# 63362

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 365-4396
FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
ABBREVIATIONS, LEGEND AND SHEET INDEX

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016859
4.14.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	G1.01 2 OF 17

DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY THE PROFESSIONAL ENGINEER AND HIS CONSULTANTS ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER AND THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY THE OWNER OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT WITHOUT THE WRITTEN AGREEMENT OF THE ENGINEER AND THE ARCHITECT. ALL REPRODUCTIONS OF THESE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS OR ANY PART THEREOF MUST BEAR THE STATUTORY COPYRIGHT NOTICE AND ANY OTHER NOTICE PRESCRIBED BY THE ENGINEER OR THE ARCHITECT. THE OWNER AND OTHERS USING OR RECEIVING COPIES OF THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS OR ANY PART THEREOF, EXPRESSLY AGREE BY SUCH USE OR RECEIPT THAT THEY WILL NOT REPRODUCE OR COPY THEM OR ANY PART THEREOF, THAT THEY WILL NOT ASSIGN ANY RIGHTS THEREIN OR LICENSE THE USE THEREOF, AND THAT THEY WILL PROTECT AND INDEMNIFY THE ENGINEER AND THE ARCHITECT FROM ANY BREACH OF THESE AGREEMENTS BY THEMSELVES OR BY ANYONE WHO OBTAINS THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FROM THEM. THE ENGINEER AND THE ARCHITECT SHALL BE DEEMED THE AUTHORS AND OWNERS OF THEIR RESPECTIVE INSTRUMENTS OF SERVICE, INCLUDING THE DRAWINGS AND SPECIFICATIONS, AND WILL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THEREIN. THE OWNER'S LIMITED RIGHT TO USE THE DRAWINGS AND SPECIFICATIONS DOES NOT INCLUDE ANY RIGHTS TO ANY COMPUTER SOFTWARE OR OTHER ELECTRONIC ARCHIVES USED TO GENERATE THE DRAWINGS. THE OWNER SHALL NOT USE THE DRAWINGS AND SPECIFICATIONS FOR FUTURE ADDITIONS OR ALTERATIONS TO THIS PROJECT OR FOR OTHER PROJECTS, UNLESS THE ENGINEER AND THE ARCHITECT ARE EMPLOYED FOR THOSE PROJECTS AND PERFORM ACCEPTABLE ADJUSTMENTS TO THE DRAWINGS AND SPECIFICATIONS. ANY UNAUTHORIZED USE OF THE DRAWINGS AND SPECIFICATIONS SHALL BE AT THE SOLE RISK AND LIABILITY OF THE UNAUTHORIZED USER.

CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".

2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION, PRIOR TO THE USE ON THE PROJECT.

6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.

8. AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.

9. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE WATER-TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED PER USD 216.

10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USD 235, CASE I. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE.

11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY CITY PROJECT REPRESENTATIVE.

12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY GES, REPORT #20153743E1 DATED SEPTEMBER 30, 2015 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.

13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.

14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED, AND SHALL BE DONE ONLY BY A NEVADA PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS - CLARK COUNTY AREA. A RECORD-OF-SURVEY FOR REPLACEMENT OF PERMANENT SURVEY MONUMENTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO RECORDING. THE RECORD-OF-SURVEY SHALL BE PREPARED IN ACCORDANCE WITH NEVADA REVISED STATUTES 625.350.

15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE AFFECTED UTILITY COMPANY AND THE CITY ENGINEER.

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE CLV BUILDING DEPARTMENT.

17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHTS OF WAY.

18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, SEWER CLEANOUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT AND CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.

21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGHMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAP(S) MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.

23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 02/03/2015

RTC NOTES

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY CLOSURES SHALL BE PWD (PERSONS WITH DISABILITY) ACCESSIBLE BEFORE ANY BUS STOP CAN BE CLOSED. THE CONTRACTOR SHALL NOTIFY CARL SCARBROUGH AT (702) 676-1608 OR ERIC TRAASDAHL AT (702) 676-1633, AT LEAST SEVEN WORKING DAYS IN ADVANCE.

2. THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURES SCHEDULE WITH THE TRAFFIC CONTROL PLAN. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY SPECIFIC DURATIONS AND TIMES OF THE DAY FOR ALL PROPOSED BUS STOP CLOSURES. BUS STOP CLOSURES ARE NOT TO EXCEED TWO CONSECUTIVE STOPS AT ONE TIME, OR MORE THAN 1,000 FEET AT A TIME. PERSONS WITH DISABILITIES SHALL HAVE ACCESS TO BUS STOPS. THE CONTRACTOR SHALL PROVIDE A 100 FOOT LONG BY 10 FEET WIDE GRAVELED TURN OUT AT TEMPORARY BUS STOPS.

REVISED FEBRUARY 14, 2013

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.

3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.

4. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.

5. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL
A. PAVEMENT AREA SUBGRADE	0.1'±	+0.0' TO -0.1'
B. ENGINEERED FILL	0.5'±	+0.1' TO -0.1'

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE. COMPACTION SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEER.

6. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.

7. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.

8. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT- OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

9. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED AS DIRECTED BY THE CITY ENGINEER AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/2010

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.

3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.

5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.

6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.

7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.

8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.

9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.

10. INSTALLATION OF CURVED SEWERS REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED JANUARY 13, 2015

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.

3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.

4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.

5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.

7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.

8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.

10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.

11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING RTC TRANSIT IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.

13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.

14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JULY 13, 2013

LVVWD STANDARD NOTES

LVVWD PROJECT # 124440

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT# IDENTIFIED ABOVE.

2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.

3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.

4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.

5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.

6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.

8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.

9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.

10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.

11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.

12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600

14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL FACILITIES WILL INCLUDE THE PLACEMENT OF ANY APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNERS ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNERS ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 4/19/16 PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

RECEIVED
MAY 5 2016
CITY OF LAS VEGAS
PERMITS

AS BUILT

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR 1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929

107V 6612 H#63362

CITY OF LAS VEGAS
PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

GENERAL NOTES 1

REVISIONS

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Stanley Consultants INC.
6820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

STAMP
PROFESSIONAL ENGINEER, STATE OF NEVADA
HELENA MURVOSH
Expr: 12/31/17
CIVIL
No. 016830
5.2.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
SSID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	G1.02
	3 OF 17

THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREIN ARE THE PROPERTY OF THE CITY OF LAS VEGAS AND SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT & COMPENSATION TO THE CITY OF LAS VEGAS. ANY REPRODUCTION OF THESE DRAWINGS AND SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE CITY OF LAS VEGAS SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE CITY OF LAS VEGAS. THE USER SHALL INDEMNIFY AND HOLD THE CITY OF LAS VEGAS HARMLESS FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND THIS OFFICE SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH THE WORK AFFECTED THEREBY. SUBMISSION OF SHOP DRAWINGS, PRODUCT DATA OR SAMPLES FOR APPROVAL WHICH DEPART FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE MADE BY THE CONTRACTOR ONLY AFTER HE HAS NOTED SUCH DEPARTURES THEREIN AND BROUGHT THEM TO THE ATTENTION OF THE ENGINEER IN WRITING. APPROVAL OF SUCH DEPARTURES SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS IN SHOP DRAWINGS OR SCHEDULES. ALL DRAWINGS AND SPECIFICATIONS PREPARED BY THE CITY OF LAS VEGAS ARE COPYRIGHTED. THE PROJECT FOR WHICH THEY WERE PREPARED AND SHALL NOT, FOR THE CONSTRUCTION OF ANY OTHER PROJECT IN A C.O.L.V.

CITY OF LAS VEGAS FIRE AND RESCUE NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW.
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS.
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL.
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE.
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL.
9. PRIVATE HYDRANTS SHALL BE PAINTED RED.
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS:
    - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS.
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION.
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE.
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE.
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT.
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN.
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS.
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%.
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS.
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS.
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT.
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED.
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA.
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT.
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

REVISED MARCH 1, 2016

CITY OF LAS VEGAS STREET LIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEFO PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHTING BASES ARE INSTALLED.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6331.

REVISED 04/15/2010

STORM WATER POLLUTION STANDARD PLANS NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF HENDERSON AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF HENDERSON AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITH 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORM WATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

DEVIATIONS FROM STANDARDS

1. FIVE FOOT SIDEWALK WITH NO LANDSCAPING AND A FIVE FOOT INTERIM LANDSCAPE ROCK AREA AT THE BACK OF SIDEWALK ALONG THE NORTH OF THE PROPERTY LINE, SEE SDR-61910 CONDITIONS PLANNING ITEM 6 FOR WAIVER.
2. ZERO PARKING LOT LANDSCAPE ISLANDS, SEE SDR 61910 CONDITIONS PLANNING ITEM 7 FOR WAIVER.

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CITY OF LAS VEGAS
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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

CONSULTANT
Stanley Consultants INC
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

ALTA DAYCARE UPGRADES

GENERAL NOTES 2

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016850
3.24.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	G1.03
	4 OF 17

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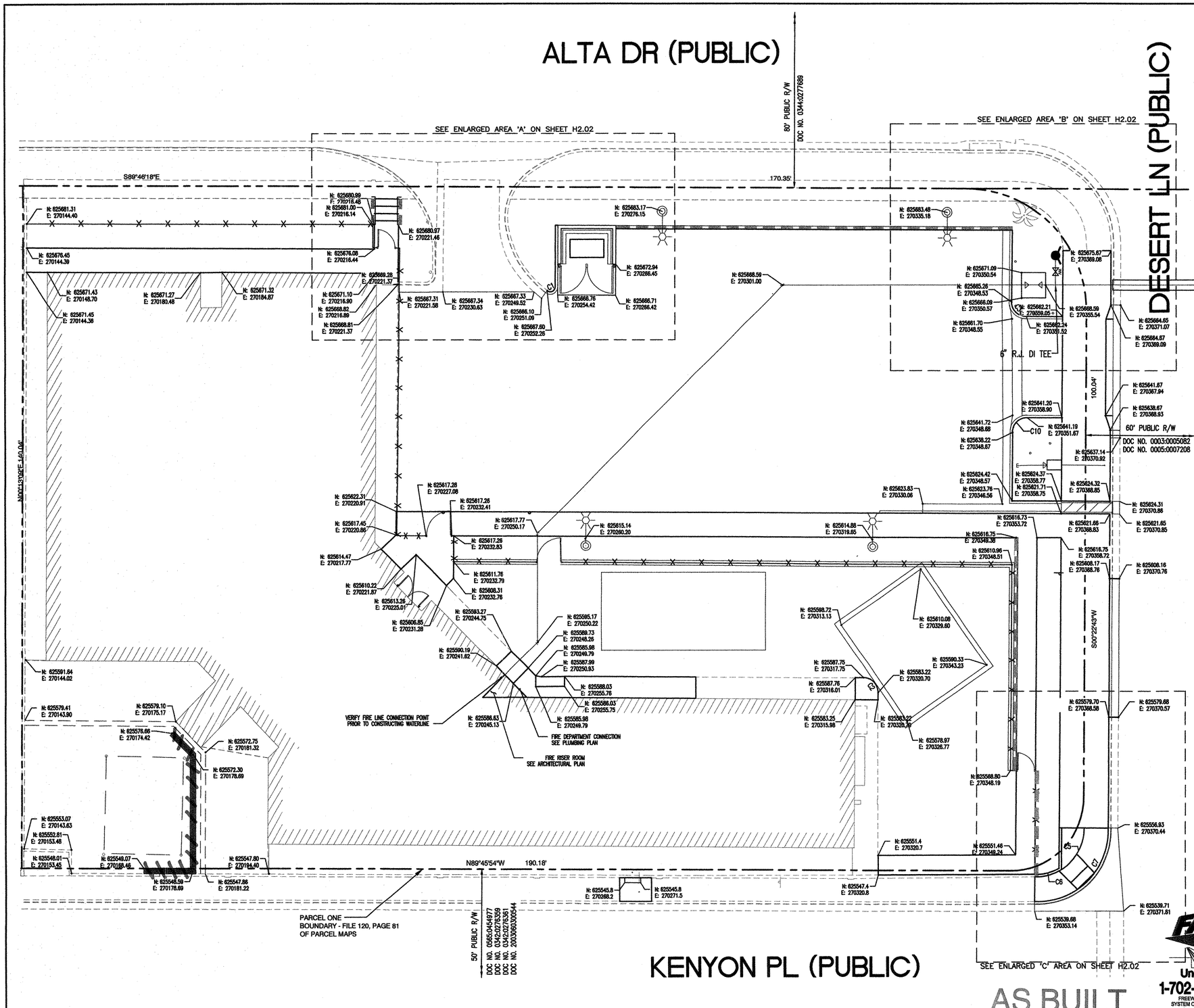

NORTH

GRAPHIC SCALE

10 0 5 10 20

(IN FEET)

1 inch = 10 ft.

Curve Table			
Curve #	Length	Radius	Delta Angle
C1	2.24	1.00	128° 12' 55"
C2	4.75	3.00	90° 40' 48"
C3	4.72	3.00	90° 10' 03"
C5	15.60	10.00	89° 24' 16"
C6	4.57	9.50	27° 35' 11"
C7	23.91	14.84	92° 16' 16"
C10	4.69	3.00	89° 32' 22"

PROJECT BENCHMARK:

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCHMARK: CITY OF LAS VEGAS BENCHMARK 2LV0133C4
NAVD88 ELEVATION: 2,046.43 FEET – 2008 CLV ADJUSTMENT

RIVET AND PLATE IN TOP OF CURB AT SOUTHWEST CORNER OF ALTA DRIVE AND MARTIN L KING BOULEVARD

HORIZONTAL DATUM AND COORDINATE SYSTEM:

DATUM AND REALIZATION: NAD 1983 (2011) EPOCH 2010.0
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS
PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL(AND LATITUDE OF GRID ORIGIN): 36° 15' 00" N
LONGITUDE OF CENTRAL MERIDIAN: 114° 58' 00" W
NORTHING AT GRID ORIGIN: 2000,000.00 M (656,166.6667 SFT)
EASTING AT CENTRAL MERIDIAN: 100,000.000 M (328,083.3333 SFT)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)
LINEAR UNIT: US SURVEY FOOT (SFT)

BASIS OF BEARINGS:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN. THE REFERENCE FRAME BEING NAD 83 (2011) EPOCH 2010.0 AS SHOWN ON A PARCEL MAP ON FILE AT THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA IN FILE 120 AT PAGE 81.

NOTE:

1. THE BASIS FOR ALL COORDINATE VALUES SHOWN HEREIN IS THE ABOVE REFERENCED PARCEL MAP PROVIDED BY THE CITY OF LAS VEGAS. STANLEY CONSULTANTS MADE NO INDEPENDENT VERIFICATION OF THIS DATA AS IT HAS BEEN CERTIFIED BY THE CITY SURVEYOR.

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CITY OF LAS VEGAS NEVADA

REVISIONS

CONSULTANT

Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

CIVIL SITE HORIZONTAL CONTROL 1

STAMP
PROFESSIONAL LAND SURVEYOR STATE OF NEVADA
ALAN W. DILL
Exp: 12/31/16
No. 7808
5-23-16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
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DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	1:10
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	H1.01
	5 OF 17

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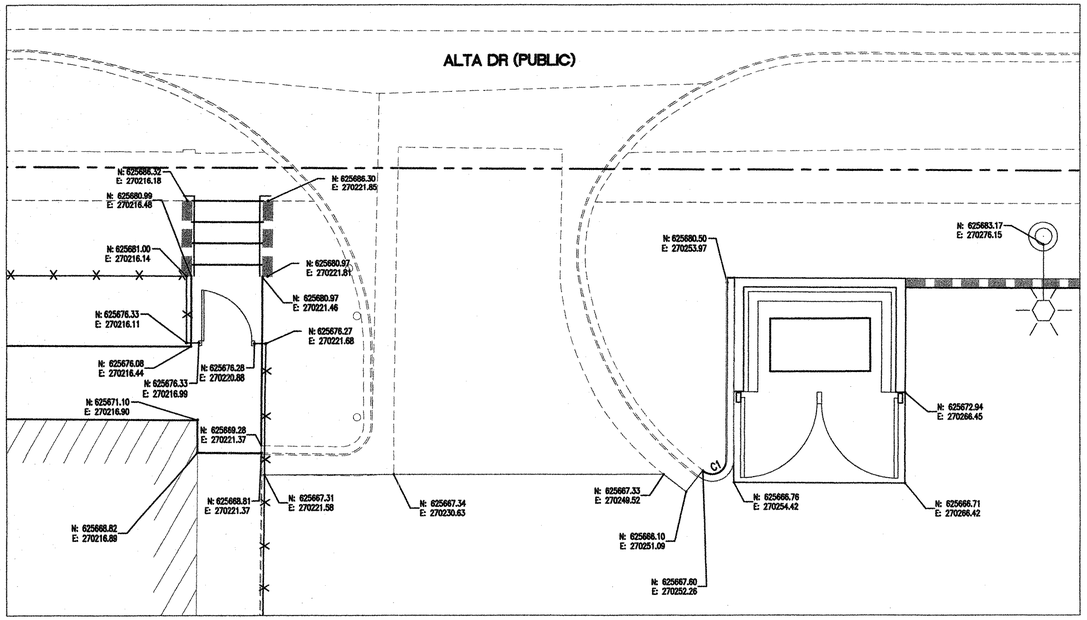

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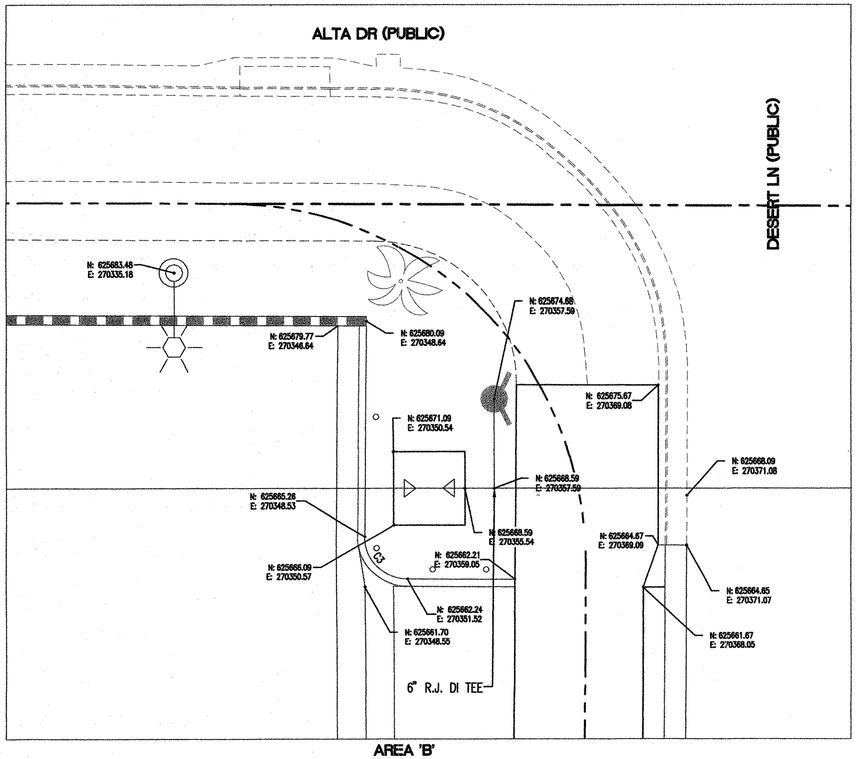
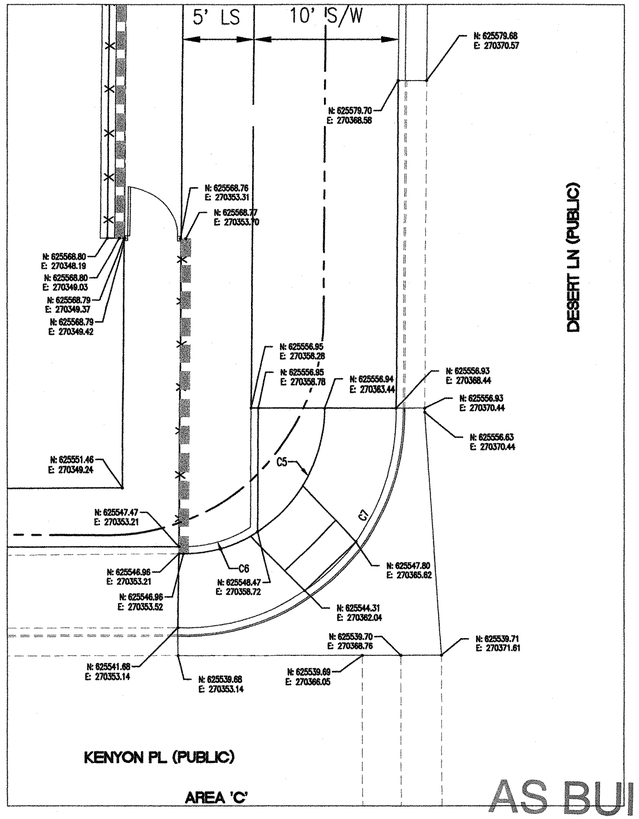


AREA 'B'



AREA 'C'

AS BUILT

NORTH

GRAPHIC SCALE

5 0 2.5 5 10

(IN FEET)

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CIVIL SITE HORIZONTAL CONTROL 2

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SCALE	1:5
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	H1.02

6 OF 17

DRAWINGS & INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE SEAL OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS AND ARE NOT TO BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT & STRICTLY PROHIBITED. COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CITY OF LAS VEGAS FOR ARCHIVAL PURPOSES AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT N.R.S. 623.280

NOT FOR CONSTRUCTION

LEGEND FOR REMOVAL LIMITS

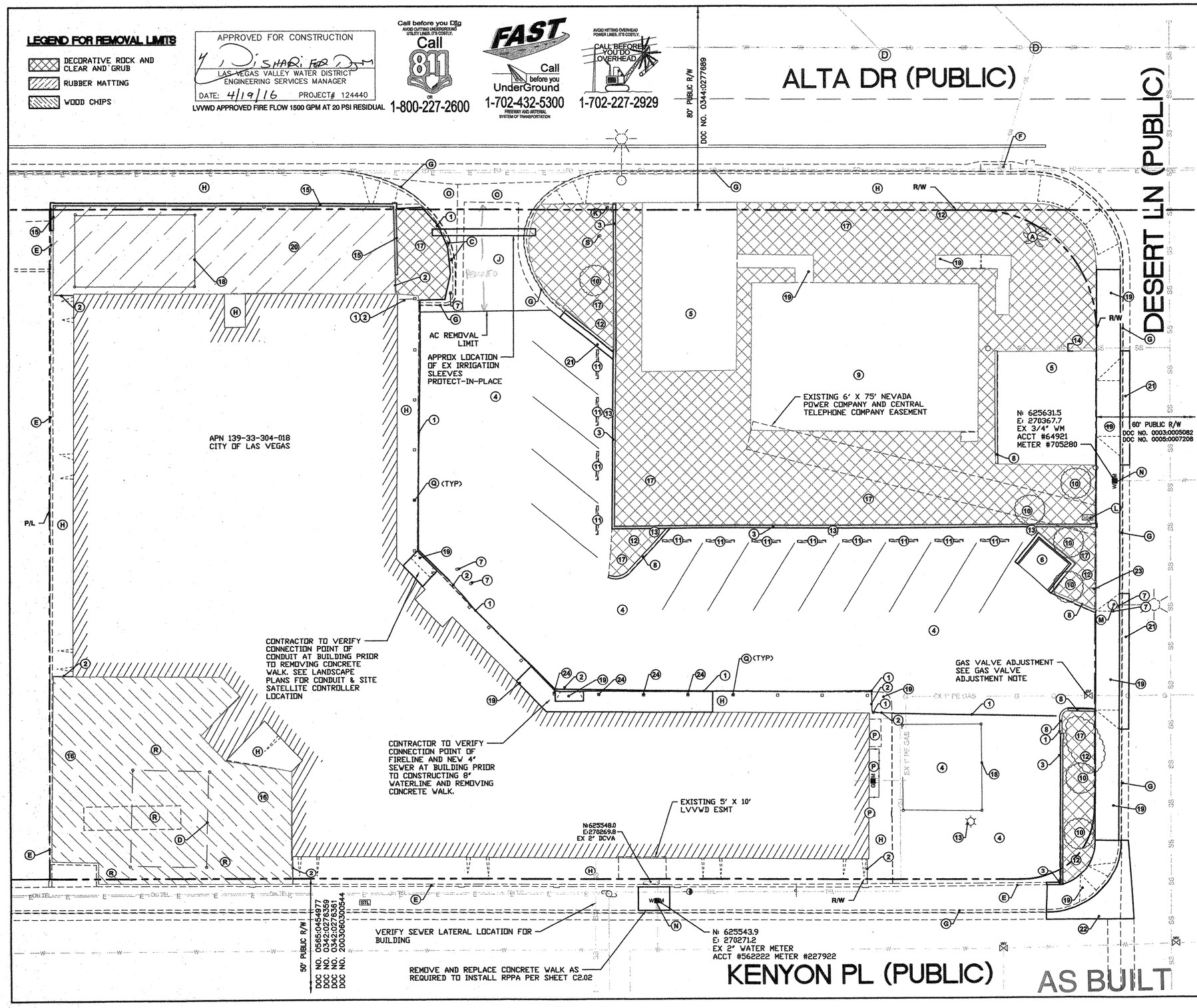
- DECORATIVE ROCK AND CLEAR AND GRUB
- RUBBER MATTING
- WOOD CHIPS

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT
ENGINEERING SERVICES MANAGER
DATE: 4/19/16 PROJECT# 124440
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

Call before you Dig — AVOID CUTTING UNDERGROUND UTILITY LINES, IT'S COSTLY. Call 811 or 1-800-227-2600

FAST — Call before you UnderGround 1-702-432-5300 — FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES, IT'S COSTLY. CALL BEFORE YOU DIG OVERHEAD 1-702-227-2929



GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

NORTH

REMOVAL NOTES:

1. REMOVE WROUGHT IRON/ALUMINUM FENCE, AND POST FOOTINGS
2. REMOVE GATE
3. REMOVE CMU WALL AND FOUNDATION
4. REMOVE ASPHALT PAVEMENT
5. REMOVE CONCRETE DRIVEWAY
6. REMOVE TRASH ENCLOSURE
7. REMOVE BOLLARD
8. REMOVE CONCRETE CURB
9. REMOVE CONCRETE FLOOR SLAB
10. REMOVE TREE
11. REMOVE CONCRETE WHEEL STOP
12. REMOVE EXISTING DECORATIVE ROCK
13. REMOVE LIGHT FIXTURE, FOUNDATION, AND CONDUIT
14. PLUG & CAP SANITARY SEWER LATERAL
15. REMOVE CMU WALL WITH WROUGHT IRON AND ALUMINUM FENCING PANELS
16. REMOVE WOOD CHIPS
17. CLEAR AND GRUB
18. REMOVE FABRIC SHADE SHELTER, POSTS, AND FOUNDATION
19. REMOVE CONCRETE WALK/RAMP/PAN DRIVEWAY
20. REMOVE RUBBER MATTING
21. REMOVE L CURB AND GUTTER
22. REMOVE CONCRETE SPANDREL
23. REMOVE/RELOCATE SIGN POST AND PANEL SEE SHEET C2.02
24. REMOVE AND REINSTALL BUILDING POST

PROTECT IN PLACE:

- (A) TREE
- (B) LANDSCAPING
- (C) CONCRETE BOLLARD
- (D) FABRIC SHADE SHELTER, POSTS, AND FOUNDATION
- (E) SCREEN/RETAINING WALL
- (F) DROP INLET
- (G) CURB AND GUTTER
- (H) CONCRETE SIDEWALK/FLATWORK
- (J) ASPHALT PAVEMENT
- (K) MAILBOX
- (L) ELECTRICAL BOX (PREVIOUSLY REMOVED BY NVE)
- (M) STREETLIGHT, BASE COVER, AND FOUNDATION
- (N) WATER METER
- (O) CONCRETE CROSS GUTTER AND SPANDRELS
- (P) UTILITY BOXES, FENCING, AND CMU
- (Q) BUILDING POSTS
- (R) PLAYGROUND EQUIPMENT
- (S) BUILDING SIGN

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CITY OF LAS VEGAS
PERMITS

NOTE:
1. SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING SHEETS FOR BUILDING DEMOLITION ITEMS.
2. SEE CIVIL SITE PLAN FOR WATER UTILITY REMOVAL AND REPLACEMENT ITEMS.
3. REMOVE EXISTING ONSITE IRRIGATION INCLUDING LINES, LATERALS, CONTROLLERS, AND OTHER ASSOCIATED ITEMS.
4. REPAIR STRUCTURES DAMAGED DURING REMOVAL OPERATIONS AND DESIGNATED TO REMAIN IN PLACE IN ACCORDANCE WITH SPECIFICATIONS.

GAS VALVE ADJUSTMENT:
1. CONTRACTOR TO VERIFY DEPTH TO EXISTING GAS LINE PRIOR TO CONSTRUCTION OF RETAINING WALL AND SHADE STRUCTURE INSTALLATION. REPORT ANY DISCREPANCY OR CONFLICT TO ENGINEER.
2. A MINIMUM OF TEN WORKING DAYS PRIOR TO PARKING LOT REMOVAL, CONTRACTOR SHALL CONTACT SOUTHWEST GAS (BILL CRAWFORD (702) 994-4198) TO LOWER THE GAS VALVE.
3. AFTER IMPROVEMENTS SURROUNDING THE GAS VALVE ARE CONSTRUCTED, CONTRACTOR SHALL CONTACT SOUTHWEST GAS TO RAISE THE VALVE TO FINISHED GRADE. CONTRACTOR SHALL ALLOW SOUTHWEST GAS A MINIMUM OF 10 DAYS TO PERFORM THE WORK.

SALVAGE OF CONCRETE WHEEL STOPS:
1. CONTRACTOR MAY SALVAGE CONCRETE WHEEL STOPS FOR USE ELSEWHERE ON THIS SITE PROVIDED IT MEETS THE CRITERIA SET FORTH IN THE PLANS, THE SPECIFICATIONS, AND IS APPROVED BY THE CONSTRUCTION MANAGER.
2. CONCRETE WHEEL STOPS MUST BE A COMPLETE PIECE, WITHOUT ANY NOTICEABLE FLAWS SUCH AS CHIPS, FADING, GRAFFITI, OR ANY OTHER COSMETIC FLAW.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE AND SAFE GUARDING OF THE CONCRETE WHEEL STOPS UNTIL THEY ARE READY TO BE INSTALLED.
4. ALL CONCRETE WHEEL STOPS NOT SALVAGED MUST BE DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS.

107V6612 H#63362

CITY OF LAS VEGAS

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9336
FAX: (702) 369-9793

CITY OF LAS VEGAS PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
ALTA DAYCARE UPGRADES
REMOVAL PLAN

STAMP
PROFESSIONAL ENGINEER — HELENA MURVOSH — Expir: 12/31/17 — CIVIL — No. 016830 — STATE OF NEVADA — 3.24.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4545
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	1:10
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C1.01
	7 OF 17

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3 of 4

APPROVED FOR CONSTRUCTION

ISHAQ KHAN

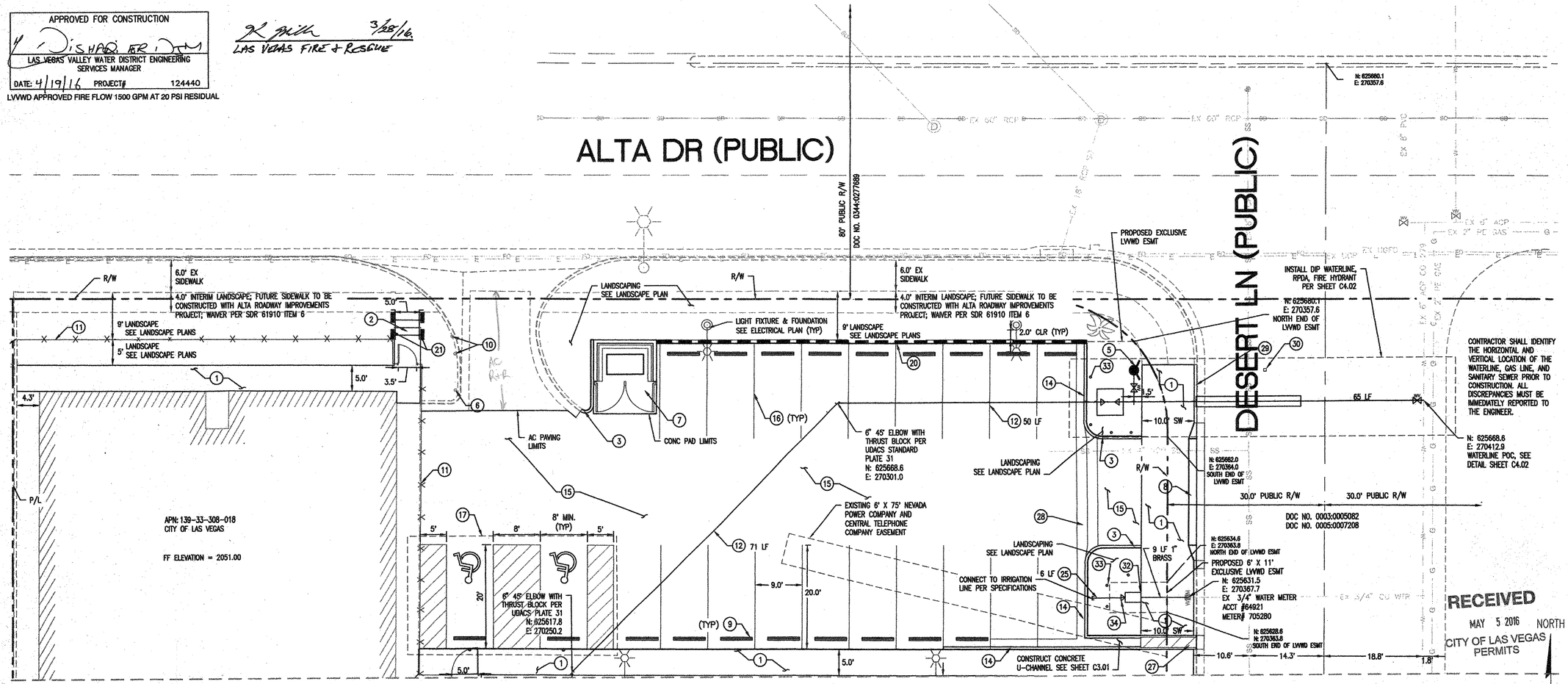
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 4/19/16 PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

3/28/16

LAS VEGAS FIRE & RESCUE



RECEIVED
MAY 5 2016
CITY OF LAS VEGAS PERMITS

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

CONSTRUCTION NOTES:

1. CONSTRUCT CONCRETE SIDEWALK PER USDCCA 234
2. CONSTRUCT CONCRETE STEPS W/HANDRAILS PER DETAIL 1 SHEET C4.04
3. CONSTRUCT TYPE "A" CURB PER USDCCA 219
4. CONSTRUCT 12" MOW CURB PER DETAIL 2 SHEET C4.03
5. FIRE HYDRANT PER UDACS PLATE 41 SEE NOTES THIS SHEET & C4.02
6. INSTALL CONC BOLLARD AND PAINT YELLOW PER UDACS PLATE 75
7. CONSTRUCT CONC TRASH ENCLOSURE PER DETAIL SHEET C4.06
8. CONSTRUCT DRIVEWAY PER USDCCA STD DWG NO 224
9. INSTALL CONCRETE WHEEL STOP PER DETAIL 6 SHEET C4.05
10. SANDBLAST, CLEAN AND PAINT EX CONC BOLLARDS YELLOW PER UDACS PLATE 75
11. 5' HIGH ALUMINUM FENCE WITH GATES PER DETAIL 2 SHEET C4.04
12. INSTALL 6" PVC WATER LINE, AWWA C900 DR-18
13. RELOCATE EXISTING SIGN PANEL AND POST
14. CONSTRUCT "L" CURB AND GUTTER PER USDCCA 216
15. AC PAVEMENT PER DETAIL 1 SHEET C4.03
16. 4" WHITE STRIPING FOR STANDARD PARKING STALLS
17. ACCESSIBLE PARKING SEE DETAILS SHEET C4.05
18. CONSTRUCT CONCRETE SPANDREL PER USDCCA 228
19. CONSTRUCT SIDEWALK RAMP CASE 1 PER USDCCA 235 (MODIFIED: SEE C3.01 FOR GRADES)
20. CONSTRUCT 3' HIGH CMU SCREEN WALL PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100-1
21. CONSTRUCT RETAINING WALL PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100-2
22. INSTALL PRESLOPED CHANNEL DRAIN SYSTEM PER SPECIFICATIONS
23. REMOVE 2" DCVA AND CONNECT EX LINE TO NEW WATERLINE, SEE WATERLINE NOTE 3
24. INSTALL 2" FEBCO LF 825 YA RPPA, W/ ASSEMBLY W/ 2" BRASS CONNECTION PER UDACS PLATE 8
25. INSTALL 1.5" PVC IRRIGATION WATERLINE
26. SEE PLUMBING PLANS FOR CONTINUATION
27. CONSTRUCT SIDEWALK UNDERDRAIN PER USDCCA 236
28. CONSTRUCT 4' VALLEY GUTTER PER DETAIL 6 SHEET C4.03
29. PAINT CURB RED, SEE FIRE HYDRANT NOTE 2 THIS SHEET
30. BLUE COVERED REFLECTIVE MARKER, SEE FIRE HYDRANT NOTE 3 THIS SHEET
31. ADDITIVE/ALTERNATIVE PAINT EXISTING CMU WALL TO MATCH NEW SPLIT FACE WALL
32. INSTALL 1" FEBCO LF 825 YA RPPA WITH ASSEMBLY AND CONNECT TO EX ¾" METER PER UDACS PLATE 4 AND PLATE 8 W/ 1" BRASS CONNECTION
33. INSTALL VEHICULAR PROTECTION BOLLARDS PER UDACS PLATE 75
34. INSTALL 1.5"X1" REDUCER
35. ATTACH KNOX BOX TO GATE WITH TWO U-BOLDS OR PER MANUFACTURERS RECOMMENDATIONS; SECURE BOLTS ON INSIDE OF KNOX BOX.

WATERLINE NOTES:

1. PIPE SMALLER THAN 4" DIAMETER SHALL BE BRASS OR NSF APPROVED SCHEDULE 40 PVC, AS SHOWN ON PLANS.
2. PIPE 4" AND LARGER DIAMETER SHALL BE DIP OR PVC AWWA C900 DR-18, AS SHOWN ON PLANS.
3. ABANDONMENT OF EXISTING 2" DCVA THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED BACKFLOW AS FOLLOWS: THE EXISTING DCVA SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING ENCLOSURE AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE SIDEWALK, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING BACKFLOW AND ENCLOSURE.
4. REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (1) 4" (SHEET C2.01) THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 56, DETAIL 1 SHEET C4.02, AND DETAIL 7 SHEET C4.03. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PROVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
5. REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" (SHEET C2.01) (1) 2" (SHEET C2.02) APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
6. SINGLE SERVICE UPGRADE SINGLE WATER SOURCED PROJECTS INVOLVING A METER, VAULT, OR WATER SERVICE UPGRADE WILL REQUIRE THE WATER TO BE SHUT OFF FOR A SUFFICIENT LENGTH OF TIME TO ACCOMPLISH THE WORK PER THE PLANS. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE FOR A DISTRICT APPROVED TEMPORARY BY-PASS TO SUPPLY THE PROJECT WHILE THE WORK IS BEING COMPLETED.
7. EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS TO THE VAULTS(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.
8. WARNING FIRE LINE (NON-POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS: TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.
9. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
10. CONTRACTOR SHALL PROVIDE SURVEY STAKING FOR ALL LVVWD FACILITIES.
11. CONTRACTOR SHALL COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS.

FIRE HYDRANT NOTES

1. FIRE HYDRANT SHALL BE PAINTED WITH A SUITABLE PRIME COAT AND NOT LESS THAN 2 COATS OF EXTERIOR INDUSTRIAL GRADE ENAMEL, SAFETY YELLOW IN COLOR.
2. THE ADJACENT CURB ON DESERT LANE, FROM THE EXISTING CURB RETURN TO THE BEGINNING OF THE DRIVEWAY, SHALL BE PAINTED WITH A COAT OF EXTERIOR INDUSTRIAL GRADE ENAMEL, SAFETY RED IN COLOR.
3. THE HYDRANT LOCATION SHALL BE IDENTIFIED BY A BLUE REFLECTIVE MARKER IN THE CENTER OF WEST DRIVE LANE DESERT LANE.
4. AFTER INSTALLATION, THE FIRE HYDRANT SHALL BE OPENED FULLY AND WATER FLOWED UNTIL ALL FOREIGN MATERIAL HAS CLEARED. AFTER OPERATION, DRY BARREL AND WALL HYDRANTS SHALL BE OBSERVED FOR PROPER DRAINAGE FROM THE BARREL. FULL DRAINAGE SHALL TAKE NO LONGER THAN 60 MINUTES.
5. FIRE HYDRANT SHALL BE 3 FEET CLEAR OF RPDA PAD.

SIGN STRIPING, AND PAVEMENT MARKERS NOTES

1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. TRAFFIC SIGNAGE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 627.
3. TRAFFIC STRIPING, PAVEMENT MARKERS, AND CURB MARKINGS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 628.
4. PAVEMENT MARKERS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 633.

CMU WALL NOTES:

1. CMU WALL TO BE SPLIT FACE BLOCKS WITH CAP PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100.
2. COLOR TO BE LIGHT BROWN. SELECT FROM STANDARD STOCK COLORS. SUBMIT COLOR SAMPLE TO OWNER'S REPRESENTATIVE FOR APPROVAL.

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDER-GROUND OR OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREIN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

FOR ALL DRY UTILITY CROSSINGS

1. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
2. MAINTAIN MINIMUM 3' PARALLEL SEPARATION.
3. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

FAST Call before you UnderGround 1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY.
Call before you Overhead 1-702-227-2929
NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811

107V6612 HP63962

AS BUILT

CITY OF LAS VEGAS PUBLIC WORKS

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-6396
FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
CIVIL SITE PLAN 1

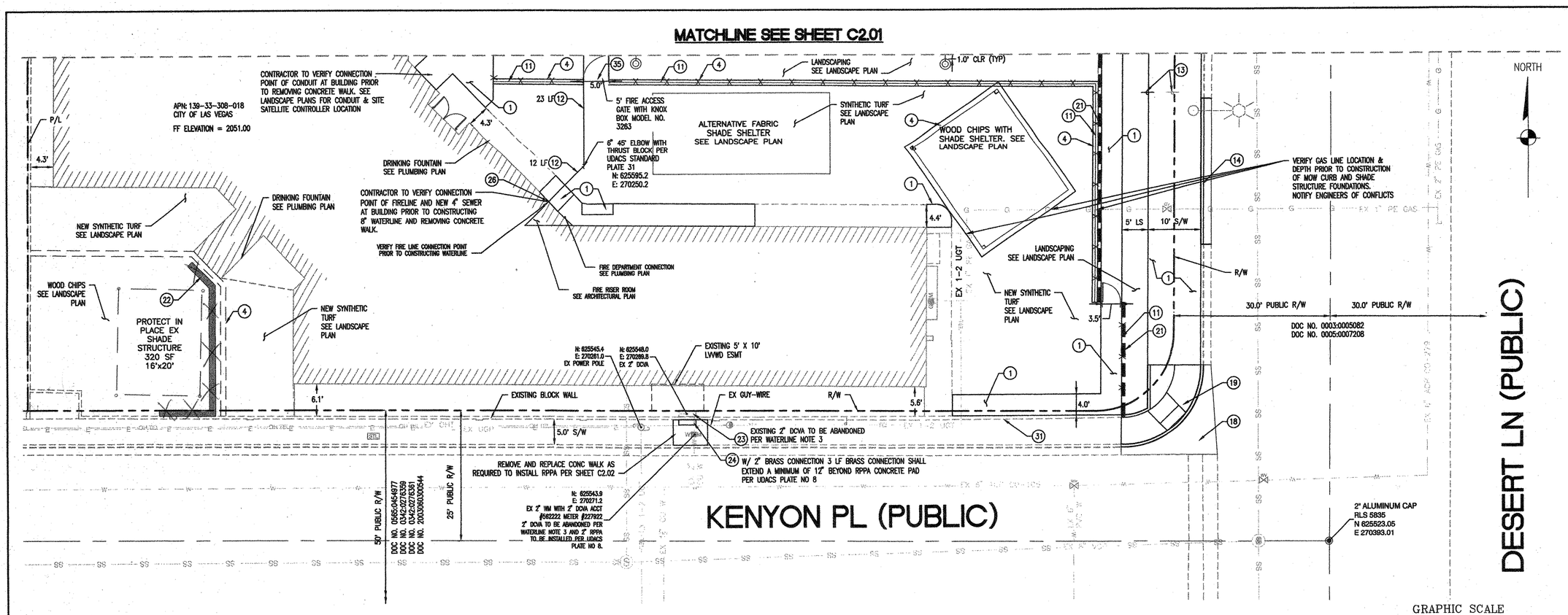
STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp. 12/31/17
CIVIL
No. 016830
4.14.16

OWNER: CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	1:10
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C2.01
	8 OF 17

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, SEQUENCES, PROCEDURES AND SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE LAWS, CODES, ORDINANCES, RULES AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTS AND OMISSIONS OF ALL HIS EMPLOYEES AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO PERSONS OR PROPERTY THAT OCCUR AS A RESULT OF HIS FAULT OR NEGLIGENCE. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS OBLIGATIONS TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS BY THE ACTIVITY OR DUTIES OF THE ENGINEER IN THE ENGINEER'S ADMINISTRATION OF THE CONTRACT, OR BY TESTS, INSPECTIONS OR APPROVALS REQUIRED OR PERFORMED BY PERSONS OTHER THAN THE CONTRACTOR'S PERSONNEL.

THESE PLANS AND SPECIFICATIONS RETAINED BY AND THE PROPERTY OF THE DESIGN PROFESSIONAL WHETHER THE PROJECT FOR WHICH THEY WERE PREPARED HAS BEEN CONSTRUCTED OR NOT, ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT AND ARE NOT TO BE LOANED, COPIED OR OTHERWISE REPRODUCED WITHOUT THE WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.



CONSTRUCTION NOTES:

1. CONSTRUCT CONCRETE SIDEWALK PER USDCCA 234
2. CONSTRUCT CONCRETE STEPS W/HANDRAILS PER DETAIL 1 SHEET C4.04
3. CONSTRUCT TYPE "A" CURB PER USDCCA 219
4. CONSTRUCT 12" MOW CURB PER DETAIL 2 SHEET C4.03
5. FIRE HYDRANT PER UDACS PLATE 41 SEE NOTES THIS SHEET & C4.02
6. INSTALL CONC BOLLARD AND PAINT YELLOW PER UDACS PLATE 75
7. CONSTRUCT CONC TRASH ENCLOSURE PER DETAIL SHEET C4.06
8. CONSTRUCT DRIVEWAY PER USDCCA STD DWG NO 224
9. INSTALL CONCRETE WHEEL STOP PER DETAIL 6 SHEET C4.05
10. SANDBLAST, CLEAN AND PAINT EX CONC BOLLARDS YELLOW PER UDACS PLATE 75
11. 5' HIGH ALUMINUM FENCE WITH GATES PER DETAIL 2 SHEET C4.04
12. INSTALL 6" PVC WATER LINE, AWWA C900 DR-18
13. RELOCATE EXISTING SIGN PANEL AND POST
14. CONSTRUCT "L" CURB AND GUTTER PER USDCCA 216
15. AC PAVEMENT PER DETAIL 1 SHEET C4.03
16. 4" WHITE STRIPING FOR STANDARD PARKING STALLS
17. ACCESSIBLE PARKING SEE DETAILS SHEET C4.05
18. CONSTRUCT CONCRETE SPANDREL PER USDCCA 228
19. CONSTRUCT SIDEWALK RAMP CASE I PER USDCCA 235 (MODIFIED: SEE C3.01 FOR GRADES)
20. CONSTRUCT 3' HIGH CMU SCREEN WALL PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100-1
21. CONSTRUCT RETAINING WALL PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100-2
22. INSTALL PRESLOPED CHANNEL DRAIN SYSTEM PER SPECIFICATIONS. NEVER PLACED
23. REMOVE 2" DCVA AND CONNECT EX LINE TO NEW WATERLINE, SEE WATERLINE NOTE 3
24. INSTALL 2" FEBCO LF 825 YA RPPA, W/ ASSEMBLY W/ 2" BRASS CONNECTION PER UDACS PLATE 8
25. INSTALL 1.5" PVC IRRIGATION WATERLINE
26. SEE PLUMBING PLANS FOR CONTINUATION
27. CONSTRUCT SIDEWALK UNDERDRAIN PER USDCCA 236
28. CONSTRUCT 4' VALLEY GUTTER PER DETAIL 6 SHEET C4.03
29. PAINT CURB RED, SEE FIRE HYDRANT NOTE 2 THIS SHEET
30. BLUE COVERED REFLECTIVE MARKER, SEE FIRE HYDRANT NOTE 3 THIS SHEET
31. ADDITIVE/ALTERNATIVE PAINT EXISTING CMU WALL TO MATCH NEW SPLIT FACE WALL
32. INSTALL 1" FEBCO LF 825 YA RPPA WITH ASSEMBLY AND CONNECT TO EX 3" METER PER UDACS PLATE 4 AND PLATE B W/ 1" BRASS CONNECTION
33. INSTALL VEHICULAR PROTECTION BOLLARDS PER UDACS PLATE 75
34. INSTALL 1.5"X1" REDUCER
35. ATTACH KNOX BOX TO GATE WITH TWO U-BOLDS OR PER MANUFACTURERS RECOMMENDATIONS; SECURE BOLTS ON INSIDE OF KNOX BOX.

WATERLINE NOTES:

1. PIPE SMALLER THAN 4" DIAMETER SHALL BE BRASS OR NSF APPROVED SCHEDULE 40 PVC, AS SHOWN ON PLANS.
2. PIPE 4" AND LARGER DIAMETER SHALL BE DIP OR PVC AWWA C900 DR-18, AS SHOWN ON PLANS.
3. ABANDONMENT OF EXISTING 2" DCVA THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED BACKFLOW AS FOLLOWS: THE EXISTING DCVA SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING ENCLOSURE AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALK, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING BACKFLOW AND ENCLOSURE.
4. REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (1) 4" (SHEET C2.01) THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 56, DETAIL 1 SHEET C4.02, AND DETAIL 7 SHEET C4.03. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
5. REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" (SHEET C2.01) (1) 2" (SHEET C2.02) APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
6. SINGLE SERVICE UPGRADE SINGLE WATER SOURCED PROJECTS INVOLVING A METER, VAULT, OR WATER SERVICE UPGRADE WILL REQUIRE THE WATER TO BE SHUT OFF FOR A SUFFICIENT LENGTH OF TIME TO ACCOMPLISH THE WORK PER THE PLANS. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE FOR A DISTRICT APPROVED TEMPORARY BY-PASS TO SUPPLY THE PROJECT WHILE THE WORK IS BEING COMPLETED.
7. EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS TO THE VAULTS(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.
8. WARNING FIRE LINE (NON-POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS:
   TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.
9. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
10. CONTRACTOR SHALL PROVIDE SURVEY STAKING FOR ALL LVVWD FACILITIES.
11. CONTRACTOR SHALL COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS.

SIGN STRIPING, AND PAVEMENT MARKERS GENERAL NOTES

1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. TRAFFIC SIGNAGE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 627.
3. TRAFFIC STRIPING, PAVEMENT MARKERS, AND CURB MARKINGS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 628.
4. PAVEMENT MARKERS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 633.

CMU WALL NOTES:

1. CMU WALL TO BE SPLIT FACE BLOCKS WITH CAP PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100.
2. COLOR TO BE LIGHT BROWN. SELECT FROM STANDARD STOCK COLORS. SUBMIT COLOR SAMPLE TO OWNER'S REPRESENTATIVE FOR APPROVAL.
3. INCLUDE COST IN BID PRICE FOR "EXTERIOR PAINT" ADDITIVE ALTERNATIVE

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDER-GROUND OR OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREIN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

FOR ALL DRY UTILITY CROSSINGS

1. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
2. MAINTAIN MINIMUM 3' PARALLEL SEPARATION.
3. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

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CITY OF LAS VEGAS
PERMITS

3/25/16
LAS VEGAS FIRE & RESCUE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 4/19/16 PROJECT# 124440
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

FAST Call before you UnderGround 1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY.
Call before you Overhead 1-702-227-2929
NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811
107V6612 H#63362

AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
CIVIL SITE PLAN 2

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830
3.24.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	1:10
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C2.02
	9 OF 17

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE STAMP OR CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS AND SHALL NOT BE REUSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT. ALL CONTRACTORS PERFORMING ANY USE OF REPRODUCTION IN WHOLE OR IN PART OF THESE DRAWINGS AND SPECIFICATIONS SHALL REVIEW AND ACCEPT THE RESPONSIBILITY FOR THE CORRECTNESS OF ANY COPIED PRODUCT. M.A.S. 02/2016

ALTA DR (PUBLIC)

KENYON PL (PUBLIC)

DESERT LN (PUBLIC)

NORTH

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

NOTE:
1. CONTRACTOR TO MATCH EXISTING GRADES (EX) UNLESS OTHERWISE SPECIFIED ON PLANS
2. TRASH ENCLOSURE INTERIOR GRADING PER SHEET C4.01
3. CONTRACTOR TO VERIFY FINISHED GRADES & TOP OF FOOTER PRIOR TO CONSTRUCTING CMU WALLS

CONSTRUCT PILASTER AT END OF EXISTING RETAINING/SCREEN WALL.

80' PUBLIC R/W
DOC NO. 0344:0277689

60' PUBLIC R/W
DOC NO. 0003:0005082
DOC NO. 0005:0007208

50' PUBLIC R/W
DOC NO. 0565:0454077
DOC NO. 0342:0276359
DOC NO. 0342:0276361
DOC NO. 20030603300544

EX FINISHED FLOOR
ELEV = 2051.00

ALTERNATIVE
20'x25' SHADE
STRUCTURE
SUPPORTS 100
KIDS @ 5
SF/CHILD

20'x24' SHADE
STRUCTURE
SUPPORTS 96 KIDS
@ 5 SF/CHILD

EX 320 SF SHADE
STRUCTURE
SUPPORTS 64 KIDS
@ 5 SF/CHILD

OUTSIDE AREA:
5569 SF SUPPORTS
148 KIDS @ 37.5 SF / CHILD

RAISE TO 2050.42

PRE-SLOPED CHANNEL DRAIN SYSTEM PER SPECIFICATIONS
SLOPE DRAIN INVERT TO DRAIN TO EX WALL OPENING
NOT PLACED

VERIFY FIRE LINE CONNECTION POINT PRIOR TO CONSTRUCTING WATERLINE

FIRE DEPARTMENT CONNECTION
SEE PLUMBING PLAN

FIRE RISER ROOM
SEE ARCHITECTURAL PLAN

CHANNEL DRAIN GRATE TOP 2050.50 INSTALL CHANNEL SYSTEM TO DRAIN TROUGH EXISTING WALL OPENING

EX. WALL DRAIN OPENING
1.3' W X 0.7' H
(2049.31) FL

CONSTRUCT PILASTER AT END OF EXISTING RETAINING/SCREEN WALL. CONNECT TO NEW RETAINING WALL

GAS
47.16
TOP

U-CHANNEL DETAIL
N.T.S.

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AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

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LAS VEGAS, NEVADA 89119
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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

GRADING PLAN

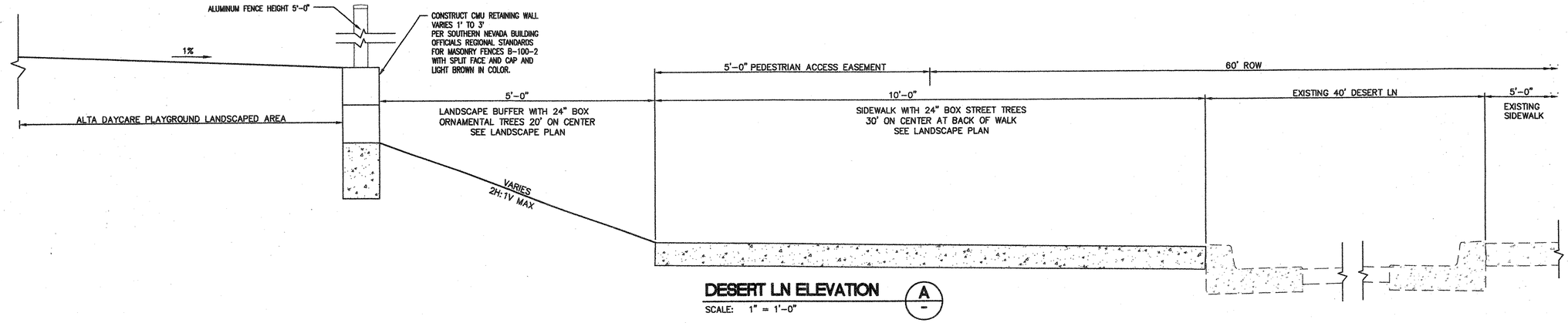
STAMP
PROFESSIONAL ENGINEER
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830
STATE OF NEVADA
5.2.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

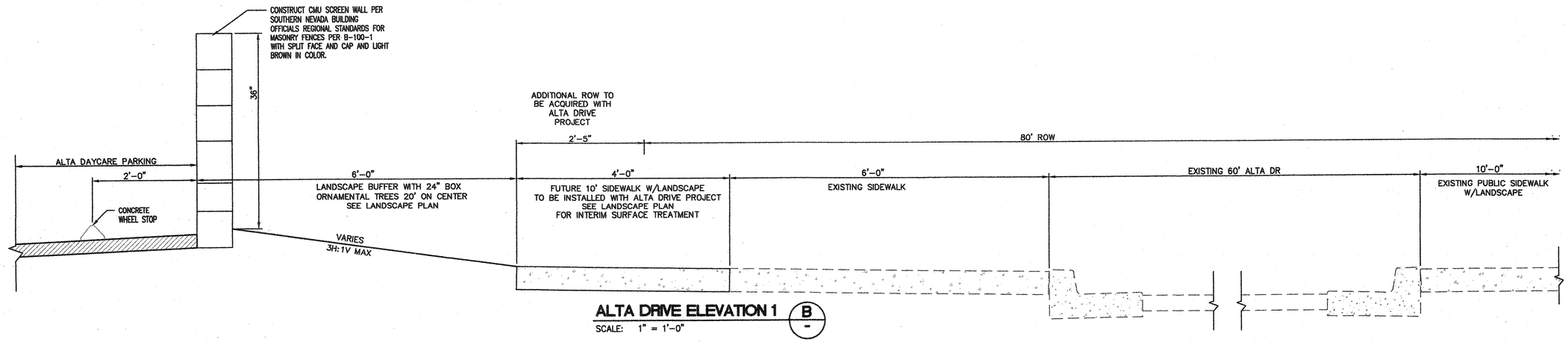
DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521.301
MANSEN NO	60316
SHT NO	C3.01
	10 OF 17

DRAWINGS AS INSTRUMENTS OF SERVICE ARE, OR REMAIN THE PROPERTY OF THE ACSA PROFESSIONAL WHOSE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS. ALL USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED UNDER LAWS OF THE STATE OF NEVADA AND THE UNITED STATES OF AMERICA. THE DRAWINGS AND SPECIFICATIONS RETURNED ON THE CLIENT MAY BE UTILIZED ONLY FOR COMPLETING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT BY A.C.E.D.2016



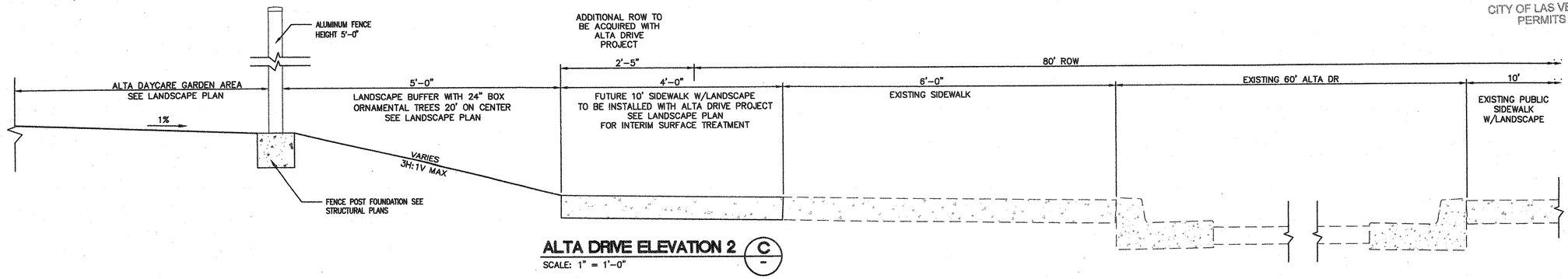
DESERT LN ELEVATION (A)

SCALE: 1" = 1'-0"



ALTA DRIVE ELEVATION 1 (B)

SCALE: 1" = 1'-0"



ALTA DRIVE ELEVATION 2 (C)

SCALE: 1" = 1'-0"

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MAY 5 2016
CITY OF LAS VEGAS
PERMITS

107V6612 H#63362

AS BUILT

CITY OF LAS VEGAS

REVISIONS

CONSULTANT

Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

SECTIONS AND DETAILS 1

STAMP

PROFESSIONAL ENGINEER — STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
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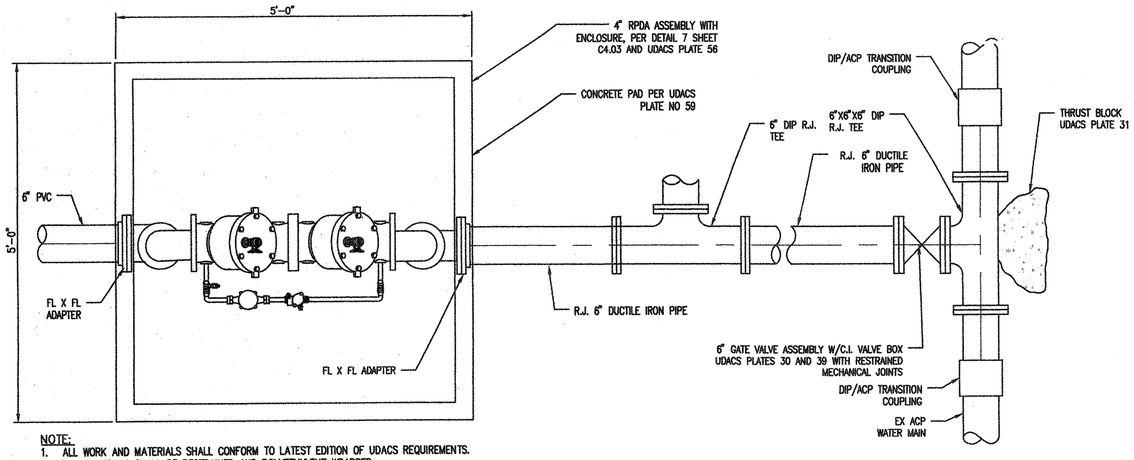
DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C4.01
	11 OF 17

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE SEAL IS AFFIXED HERETO AND SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT. SUBMITTAL OR DISTRIBUTION OF THESE PLANS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PROJECT IS NOT TO BE CONSTRUED AS PUBLICATION IN DEROGATION OF THE DESIGN PROFESSIONAL'S COMMON LAW COPYRIGHT OR OTHER RESERVED RIGHTS. ANY USE OR REPRODUCTION OF THESE PLANS AND SPECIFICATIONS, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE PROJECT FOR WHICH THEY WERE PREPARED AND WITHOUT THE EXPRESS WRITTEN CONSENT OF THE DESIGN PROFESSIONAL IS PROHIBITED. ANY UNAUTHORIZED USE OR REPRODUCTION OF THESE PLANS AND SPECIFICATIONS, RETAINED BY THE CLIENT OR ANY OTHER PERSON OR ENTITY, FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF ANY OTHER PROJECT IS A V.C.E.D.M.



NOTE:
1. ALL WORK AND MATERIALS SHALL CONFORM TO LATEST EDITION OF UDACS REQUIREMENTS.
2. DIP & FITTINGS SHALL BE RESTRAINED AND POLYETHYLENE WRAPPED
3. DISINFECTION SHALL BE PER UDACS SECTION 2.16, SECTION 3.27.02, AND PLATE NO 33 & AWWA C651-14 STANDARDS
4. FOR STEEL CASING SIZE (PER UDACS PLATE NO 22 AND 23) AND LOCATION SEE PLAN VIEW AND PROFILE THIS SHEET
5. TRENCH SECTIONS SHALL CONFORM TO UDACS PLATE 17, 42-INCHES MINIMUM COVER
6. 4" SETTER NOT REQUIRED
7. FLANGE BOLTS SHALL BE STAINLESS STEEL

FIRE LINE CONNECTION DETAIL AND RPDA ASSEMBLY

1

SCALE: NOT TO SCALE

WATERLINE NOTES:

1. PIPE SMALLER THAN 4" DIAMETER SHALL BE BRASS OR NSF APPROVED SCHEDULE 40 PVC, AS SHOWN ON PLANS.
2. PIPE 4" AND LARGER DIAMETER SHALL BE DIP OR PVC AWWA C900 DR-18, AS SHOWN ON PLANS.
3. ABANDONMENT OF EXISTING 2" DCVA THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED BACKFLOW AS FOLLOWS: THE EXISTING DCVA SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING ENCLOSURE AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE SIDEWALK, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING BACKFLOW AND ENCLOSURE.
4. REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (1) 4" (SHEET C2.01) THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 56, DETAIL 1 SHEET C4.02, AND DETAIL 7 SHEET C4.03. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
5. REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" (SHEET C2.01) (1) 2" (SHEET C2.02) APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
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8. WARNING FIRE LINE (NON-POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS: TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.
9. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
10. CONTRACTOR SHALL PROVIDE SURVEY STAKING FOR ALL LVVWD FACILITIES.
11. CONTRACTOR SHALL COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS.
12. INSTALL WATERLINE IN STEEL CASING PER UDACS PLATE NO. 22 AND 23. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF THE PIPE, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED.
13. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH FINE SAND OR CONTROLLED LOW STRENGTH MATERIAL (CLSM 50 PSI – 75 PSI), SEE UDACS PLATES 16, 17, 18, AND 19 FOR BEDDING REQUIREMENTS. ESN. 038A REVISED 01/05/15
14. THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED, THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
15. DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

LVVWD NOTES AND QUANTITIES:

PRESSURE ZONE 2168

STATIC PRESSURE NOTE:
THIS PROPERTY DOES NOT HAVE PRESSURE IN EXCESS OF 80 PSI. PRESSURE REDUCING VALVES ARE NOT REQUIRED.

DEMANDS
DOMESTIC DEMAND MAXIMUM DAY AT DAYCARE 49 GPM
DOMESTIC DEMAND PEAK HOUR AT DAYCARE 75 GPM

LVVWD QUANTITIES:

59	LF	6" R.J. DIP WATERLINE
6	LF	6" DIP
12	LF	2" BRASS PER UDACS PLATE NO 8
21	LF	16"X 3/8" STEEL CASE PIPING
2	EA	DIP/AC TRANSITION COUPLING
2	EA	6"X6"X6" DIP R.J. TEE
3	EA	THRUST BLOCKS
2	EA	ANCHOR BLOCKS
2	EA	6"X4" FL X FL DIP REDUCER
2	EA	RESTRAINED FLANGE COUPLING ADAPTER OR R.J. 90° BEND
1	EA	6" GATE VALVE ASSEMBLY W/ RESTRAINED JOINTS
2	EA	R.J. DIP 45° BEND
1	EA	4" RPDA ASSEMBLY (UDACS PLATE NO 56)
1	EA	2" RPPA ASSEMBLY
1	EA	1" RPPA ASSEMBLY
1	EA	FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE (UDACS PLATE NO 41)

CITY OF LAS VEGAS QUANTITIES:

156	LF	6" PVC WATERLINE
6	LF	1.5" PVC WATERLINE
1	EA	1.5"X1" REDUCER
3	EA	6" 45° BEND WITH THRUST BLOCKS

NOTE TO CONTRACTOR:
QUANTITIES LISTED HERE ARE FOR USE BY LVVWD. CONTRACTOR SHALL MAKE INDEPENDENT ESTIMATE OF QUANTITIES FOR BASIS OF PAYMENT. NO ADDITIONAL COMPENSATION FOR DIFFERENCES IN QUANTITIES WILL BE MADE.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1500 GPM AT 20 PSI RESIDUAL PRESSURE.

BASED ON SQUARE FOOTAGE:	11,000 SF
LARGEST AREA BETWEEN 4-HOURS AREA SEPARATE WALLS:	N/A
BUILDING HEIGHT:	24±
NUMBER OF STORIES:	2
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	E-3
FULL AUTOMATIC SPRINKLER SYSTEM:	YES

REVIEWED BY: R Smith DATE: 3/28/16

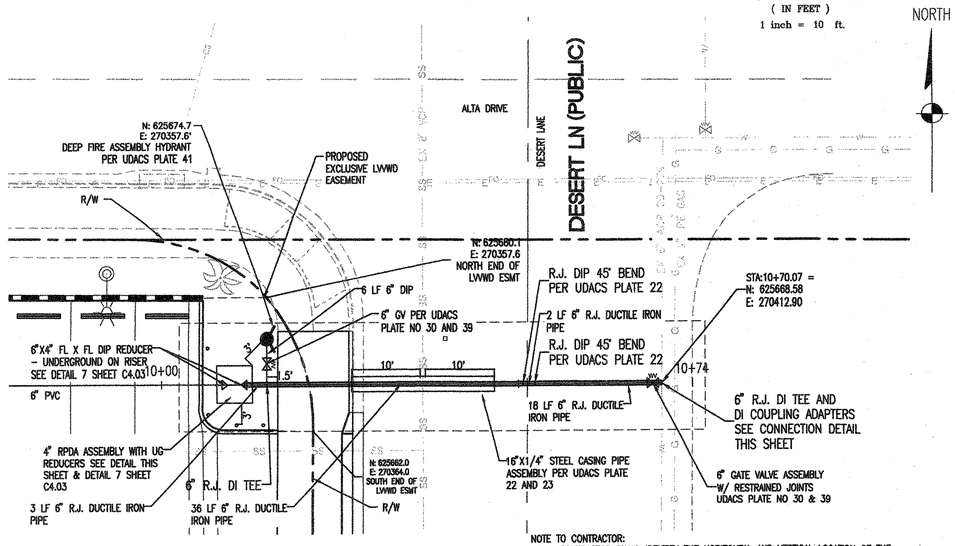
Call before you Dig — AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call 811 or 1-800-227-2600

FAST — Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

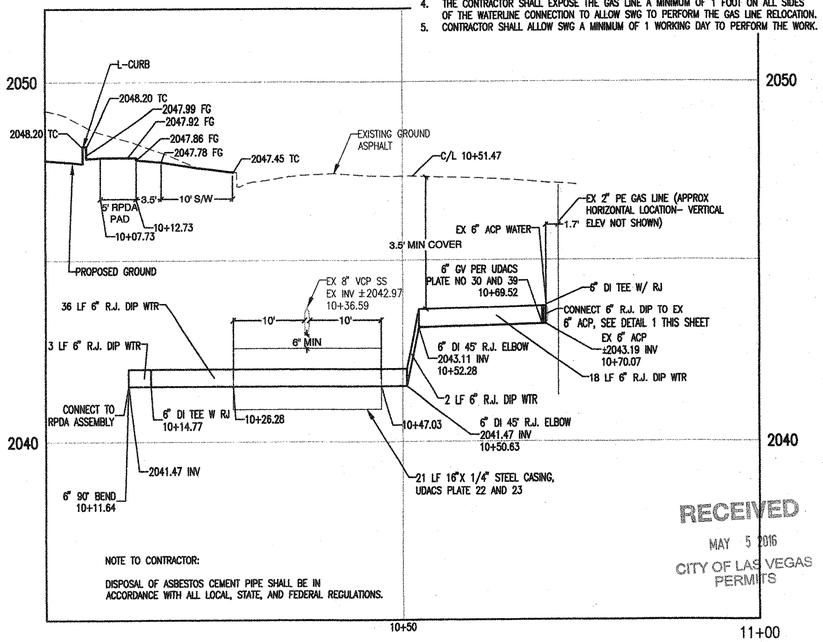
GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

NORTH



FIRE LINE PLAN

NOTE TO CONTRACTOR:
1. CONTRACTOR SHALL IDENTIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE WATERLINE, GAS LINE, AND SANITARY SEWER PRIOR TO CONSTRUCTION.
2. PROVIDE REVISED LAYOUT WITH STATIONING TO ENGINEER PRIOR TO CONSTRUCTION
3. CONTRACTOR TO COORDINATE PROTECTION AND ADJUSTMENT OF GAS LINES WITH SWG. CONTRACTOR TO NOTIFY SWG 10 WORKING DAYS PRIOR TO START OF CONSTRUCTION OF WATERLINE, IN ACCORDANCE WITH SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL EXPOSE THE GAS LINE A MINIMUM OF 1 FOOT ON ALL SIDES OF THE WATERLINE CONNECTION TO ALLOW SWG TO PERFORM THE GAS LINE RELOCATION.
5. CONTRACTOR SHALL ALLOW SWG A MINIMUM OF 1 WORKING DAY TO PERFORM THE WORK.



NOTE TO CONTRACTOR:
DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

FIRE LINE PROFILE

VERTICAL SCALE: 1 INCH=20 FEET

RECEIVED
MAY 5 2016
CITY OF LAS VEGAS PERMITS

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 4/19/16 PROJECT# 124440
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396 FAX: (702) 369-9793

ALTA DAYCARE UPGRADES

SECTIONS AND DETAILS 2

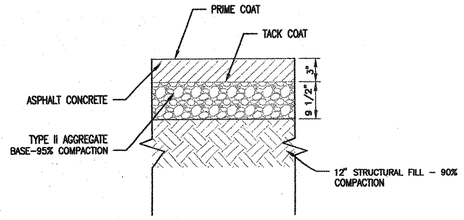
STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830
24.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

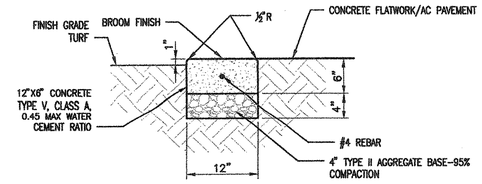
DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	1:10
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	107V6612 60316 H# 69362
SHT NO	C4.02 12 OF 17

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS AND SHALL NOT BE REUSED OR REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. ALL COPIES OF THE DRAWINGS AND SPECIFICATIONS RETURNED TO THE CLIENT MAY BE UTILIZED BY THE CLIENT FOR EXISTING FACILITIES FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT N.R.S. 625.520



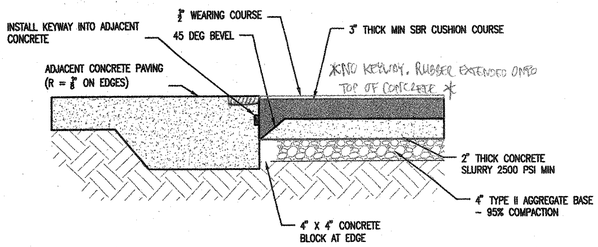
NOTES:
1. PLACE AND COMPACT TYPE II BASE TO 95% RELATIVE COMPACTION PER ASTM D 1557.
2. PLACE AND COMPACT STRUCTURAL FILL SUBGRADE TO 90% RELATIVE COMPACTION PER ASTM D 1557.
3. STRUCTURAL FILL FOR SUBGRADE TO MEET CRITERIA IN PROJECT SPECIFICATIONS.

ASPHALT SECTION — 1
SCALE: NOT TO SCALE



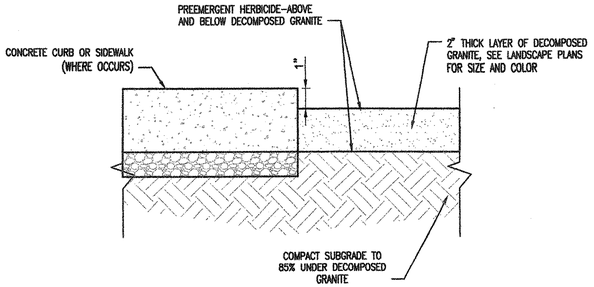
NOTES:
1. PROVIDE CONTROL JOINTS AT 6' O.C.
2. PROVIDE EXPANSION JOINTS AT 24' O.C.

12" MOW CURB — 2
SCALE: NOT TO SCALE

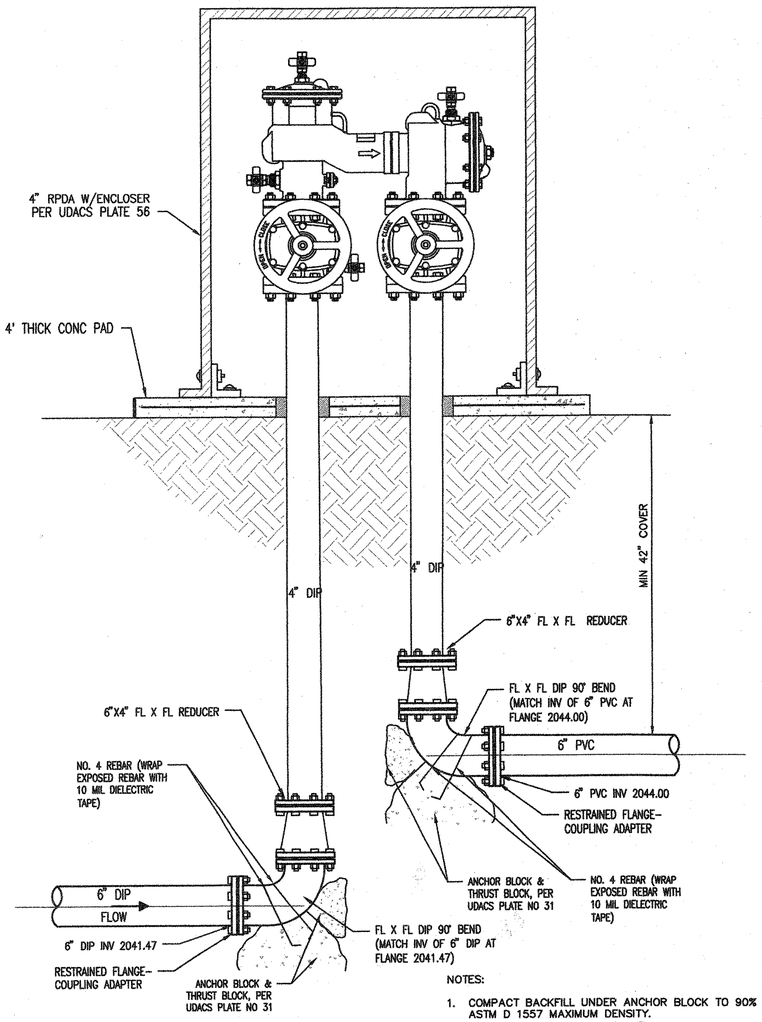


NOTES:
1. DESIGN INTENT FOR PLAY SURFACE BASED ON PEBBLE-FLEX RUBBER PELLET SYSTEM
2. CONTRACTOR TO SUBMIT STANDARD COLORS FOR OWNER SELECTION
3. CONTRACTOR TO INSTALL PER CONTRACT AND MANUFACTURERS SPECIFICATIONS

ADDITIVE/ALTERNATIVE RESILIENT PLAYGROUND SURFACE — 3
SCALE: NOT TO SCALE



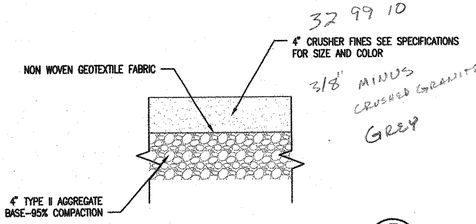
DECOMPOSED GRANITE DETAIL — 4
SCALE: NOT TO SCALE



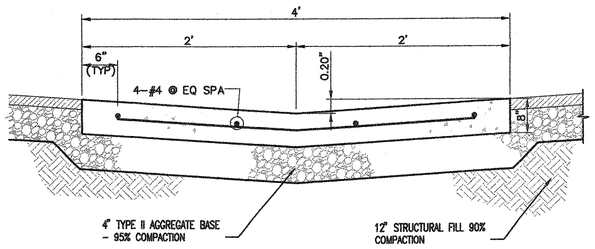
NOTES:
1. COMPACT BACKFILL UNDER ANCHOR BLOCK TO 90% ASTM D 1557 MAXIMUM DENSITY.

4" RPDA WITH UNDERGROUND REDUCERS — 7
SCALE: NOT TO SCALE

32 99 10

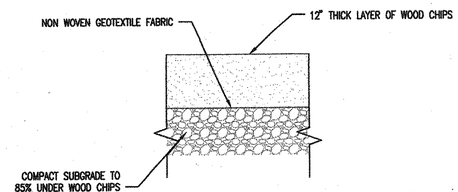


CRUSHER FINES SECTION — 5
SCALE: NOT TO SCALE



NOTE:
1. 1/2" EXPANSION JOINT REQUIRED AT 30' MINIMUM ON CENTER EACH WAY. WEAKENED PLANE JOINT REQUIRED AT 10' MINIMUM ON CENTER EACH WAY.
2. STRUCTURAL FILL TO MEET CRITERIA IN PROJECT SPECIFICATIONS
3. STRUCTURAL FILL MAY INCLUDE 6 INCHES OF SCARIFIED AND RECOMPACTED SOILS.

4' CONCRETE VALLEY GUTTER — 6
SCALE: NOT TO SCALE



CRUSHER FINES SECTION — 7
SCALE: NOT TO SCALE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT
ENGINEERING SERVICES MANAGER
DATE: PROJECT# 124440
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

CONCRETE GENERAL NOTES
1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. CONCRETE SHALL BE TYPE V CEMENT WITH 4500 PSI DESIGN STRENGTH AND SHALL HAVE A WATER CEMENT RATIO OF 0.45 BY WEIGHT.
3. CONCRETE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 501 AND 502. REINFORCING STEEL SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 505.
4. CONCRETE CURB, WALK, GUTTERS, DRIVEWAYS, ADA RAMPS, AND ALLEY INTERSECTIONS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 613.

TYPE II GENERAL NOTES
1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. TYPE II AGGREGATE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 602.
3. THE COMPACTION RATE SHALL BE A 95% MINIMUM COMPACTION, UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS.

AC GENERAL NOTES
1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. AC PAVING SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 401 AND 402.
3. TACK COAT SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 405.
4. PRIME COAT SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 406.
5. STRUCTURAL FILL BELOW AC SECTIONS MAY INCLUDE 8 INCHES OF SCARIFIED AND RECOMPACTED NATIVE SOIL. SCARIFICATION MAY TERMINATE WHERE CALICHE IS ENCOUNTERED PROVIDED SUBGRADE IS EVALUATED AND TERMINATION IS APPROVED BY GEOTECHNICAL ENGINEER.
6. SOIL PREPARATION AREA MUST EXTEND LATERALLY 2 FEET, OR MORE, BEYOND THE EDGES OF THE AC PAVEMENT.

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DEPARTMENT OF PUBLIC WORKS

REVISIONS

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

SECTIONS AND DETAILS 3

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830
3-24-16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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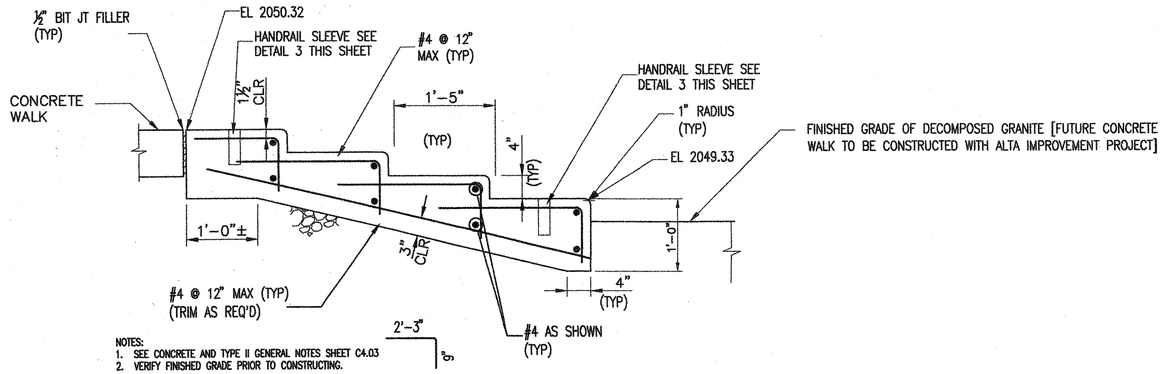
DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
WID NO	15.60316.JH
CLV DWG NO	521.301
XANSEN NO	60316
SHT NO	C4.03
	13 OF 17

ALL DRAWINGS AND SPECIFICATIONS ISSUED BY OR ON BEHALF OF THE CITY OF LAS VEGAS ARE AND SHALL REMAIN THE PROPERTY OF THE CITY OF LAS VEGAS. THEY ARE NOT TO BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF AND STRICTLY PROPER COPYRIGHT PROTECTION AS TO THE DRAWINGS AND SPECIFICATIONS IN WHOLE OR IN PART IS PROHIBITED AND ANY USE OF THE CONSTRUCTION OF ANY OTHER PROJECT IS A VIOLATION OF THE CITY OF LAS VEGAS.

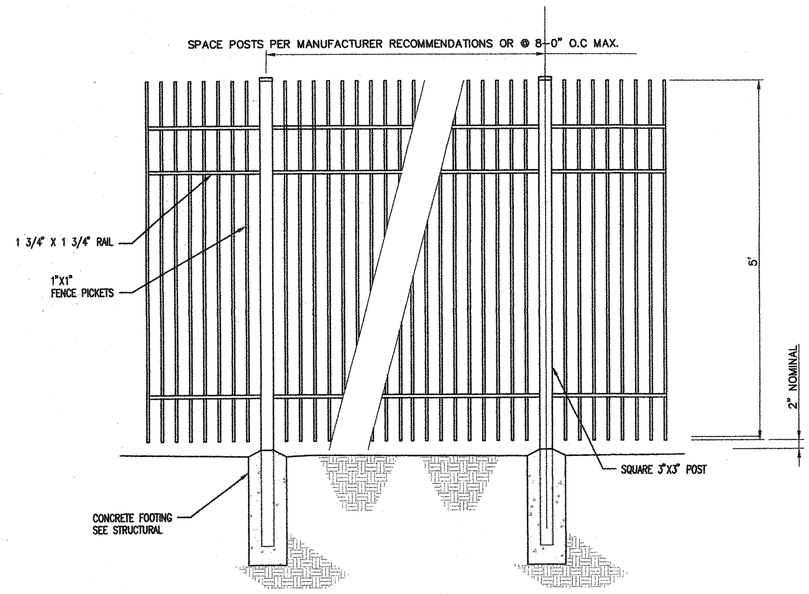


NOTES:
1. SEE CONCRETE AND TYPE II GENERAL NOTES SHEET C4.03
2. VERIFY FINISHED GRADE PRIOR TO CONSTRUCTING.

STAIR SECTION

SCALE: NOT TO SCALE

1 / -

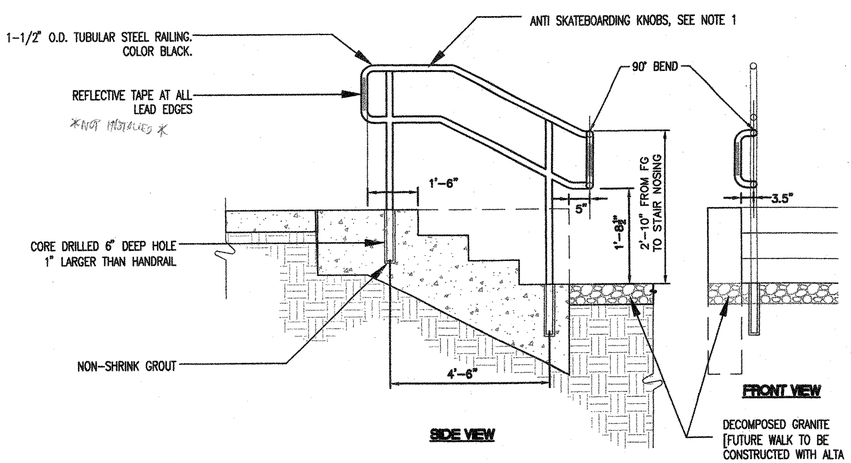


NOTES:
1. SHOP DRAWING WITH MANUFACTURER INFORMATION FOR FENCE AND GATE INCLUDING CUT SHEETS AND COLOR SAMPLE REQUIRED.
2. FENCE PANEL AND POSTS TO BE WHITE COLOR, AMERISTAR ECHELON II INDUSTRIAL ORNAMENTAL ALUMINUM FENCE, GENESIS STYLE, WITH 3 RAIL PANELS AND STANDARD ALUMINUM FLAT CAPS, OR APPROVED EQUAL.
3. GATE STYLE AND MANUFACTURER TO MATCH APPROVED PANEL AND POST STYLE AND MANUFACTURER.
4. GATE AND FENCE PANELS TO BE STANDARD SIZES; PROVIDE 5' CLR AT MAIN ENTRANCE & FIRE ACCESS ENTRANCE AND 3.5' CLR ELSEWHERE.
5. FOR PUSHBAR EXIT AND OTHER GATE HARDWARE SEE A1.01.
6. SEE STRUCTURAL PLANS FOR FOUNDATION.
7. ON RETAINING WALL, EMBED FENCE POST INTO CMU BLOCK, 2 CELLS DEEP.

ALUMINUM FENCE

SCALE: NOT TO SCALE

2 / -



NOTES:
1. 1.5" DIA. SCHEDULE 40 STEEL PIPE GALVANIZED WITH 2"X2"X1" ANTI SKATEBOARDING KNOBS WELDED IN PLACE. KNOBS SHALL BE PLACED 1' O.C.
2. VERIFY DIMENSIONS PRIOR TO FABRICATING
3. INSTALL ON BOTH SIDES OF STAIRS, MAINTAIN MINIMUM 4' CLEAR BETWEEN HANDRAILS.

HANDRAIL SECTION

SCALE: NOT TO SCALE

3 / -

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

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DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

SECTIONS AND DETAILS 4

STAMP

PROFESSIONAL ENGINEER - STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
JOB NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C4.04
	14 OF 17

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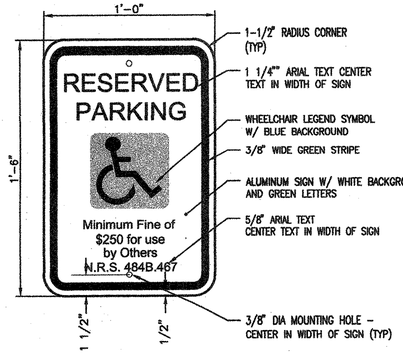
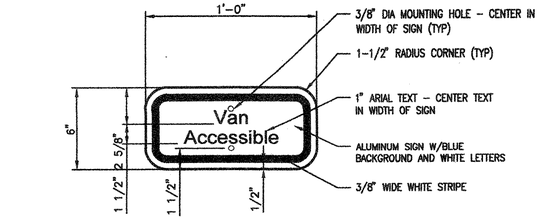


RESERVED PARKING SIGN PANEL

SCALE: NOT TO SCALE

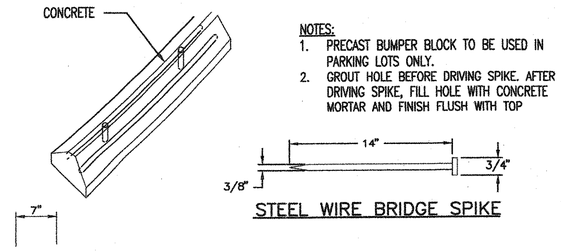
2 / -

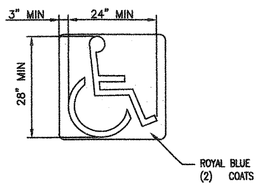


VAN ACCESSIBLE SIGN PANEL

SCALE: NOT TO SCALE

3 / -





WHEELCHAIR LEGEND (PMC TYPE I)

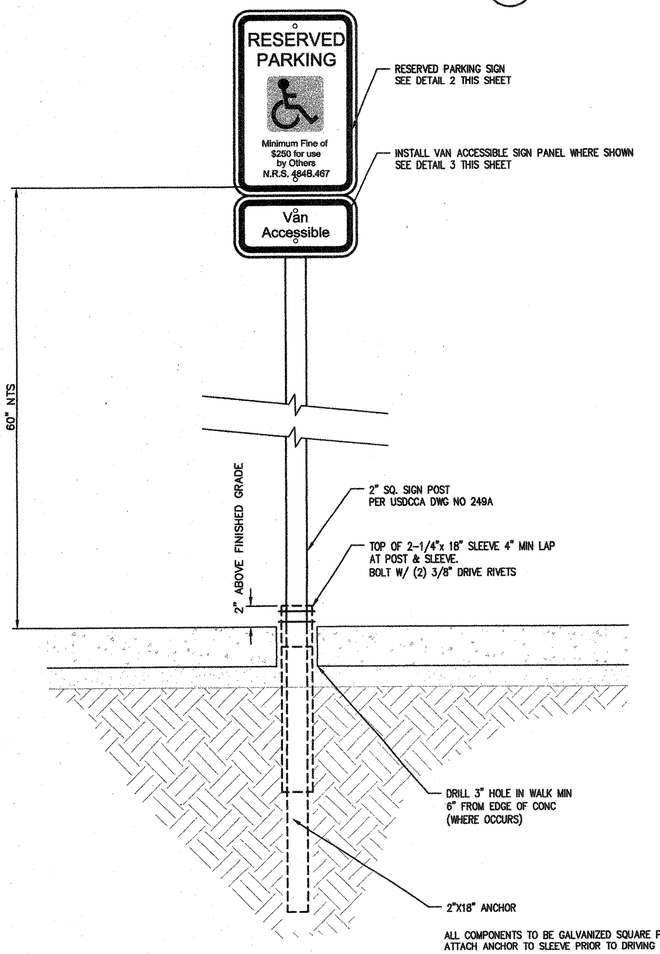
SCALE: NOT TO SCALE

4 / -

CONCRETE WHEEL STOP

SCALE: NOT TO SCALE

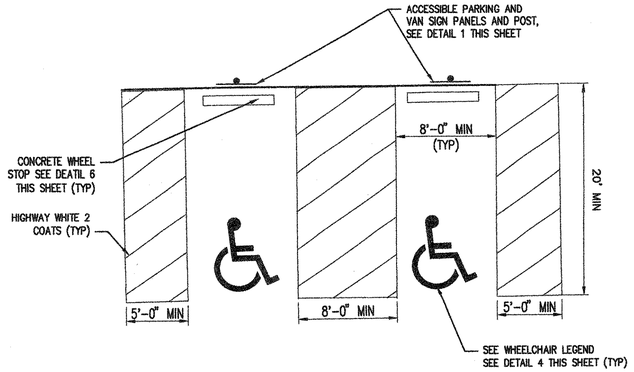
6 / -



RESERVED PARKING SIGN PANEL AND POST

SCALE: NOT TO SCALE

1 / -



ADA PARKING

SCALE: NOT TO SCALE

5 / -

SIGN STRIPING, AND PAVEMENT MARKERS GENERAL NOTES

1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. TRAFFIC SIGNAGE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 627.
3. TRAFFIC STRIPING, PAVEMENT MARKERS, AND CURB MARKINGS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 628.
4. PAVEMENT MARKERS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 633.
5. ONSITE PAVEMENT MARKINGS: HI-PERFORMANCE ACRYLIC ZONE MARKING PAINT BY AEXCEL CORPORATION, 440-974-3800: WHITE 22W-E008, YELLOW 22Y-E006, BLACK 22A-E001, OR APPROVED EQUAL. ALL MATERIALS SHALL BE FREE OF LEAD, CADMIUM, MERCURY, HEXAVELENT CHROMIUM AND OTHER HEAVY METALS AS DEFINED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

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CITY OF LAS VEGAS
PERMITS

107V6612 HMF63362

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
SECTIONS AND DETAILS 5

REVISIONS

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STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
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OWNER: CITY OF LAS VEGAS
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DRAWN MJS
FILE
DATE 03/23/2016
SCALE N/A
BID NO 15.60316.JH
CLV DWG NO 521.301
HANSEN NO 60316
SHT NO C4.05
15 OF 17

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THE DESIGN PROFESSIONAL'S STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS SUBMITTED BY THE CLIENT MAY BE UTILIZED ONLY FOR DESCRIBING THE PROJECT FOR PERMITS, BIDS, WHERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT IS CLV 2016
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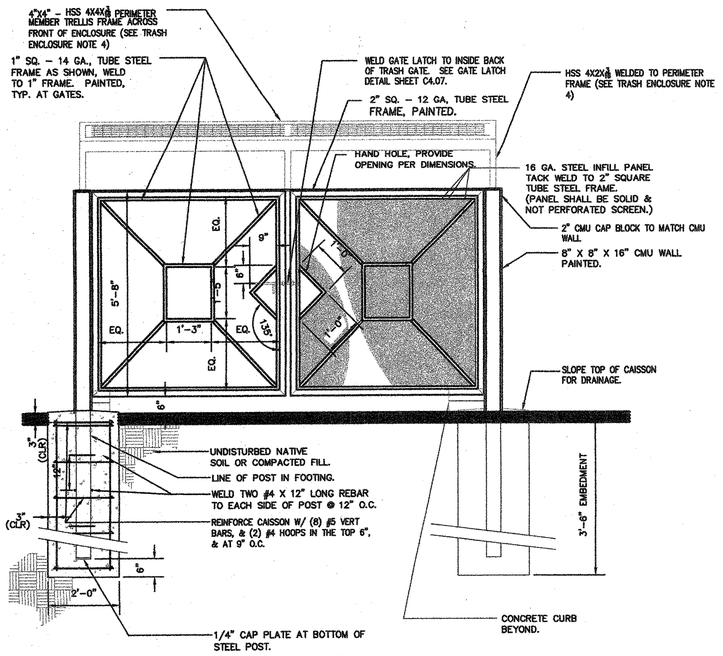
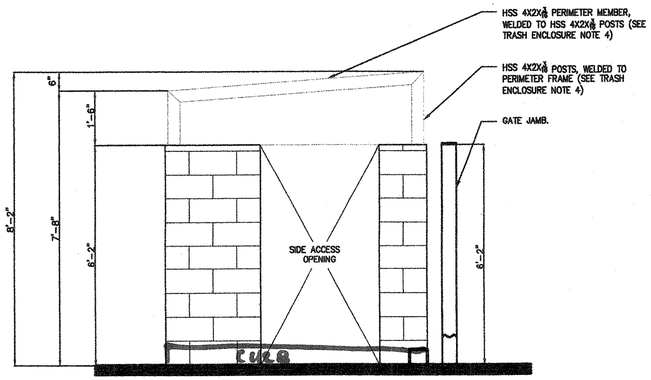


TRASH ENCLOSURE - FRONT ELEVATION (1)

SCALE:1/4"=1'-0"

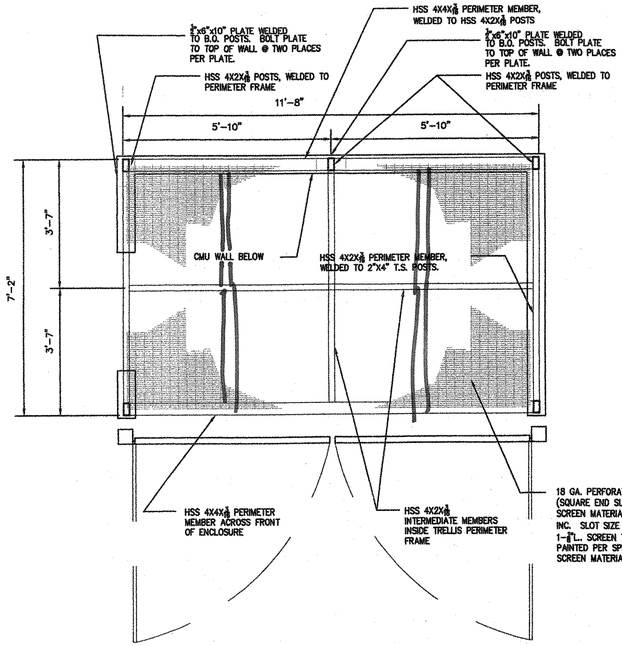
TRASH ENCLOSURE NOTES:

1. BLOCK WALL FOR TRASH ENCLOSURE TO BE SPLIT FACE, LIGHT BROWNIN COLOR, SELECTED FROM SUPPLIERS STANDARD COLOR PALLETE.
2. ALL EXTERIOR METAL AT TRASH ENCLOSURE SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS. PAINT COLOR TO BE WHITE TO MATCH PLAYGROUND FENCE.
3. CMU WALL ENCLOSURE SECTION SEE STRUCTURAL DRAWINGS.
4. MAXIMUM GATE WEIGHT SHALL NOT EXCEED 300 LBS.



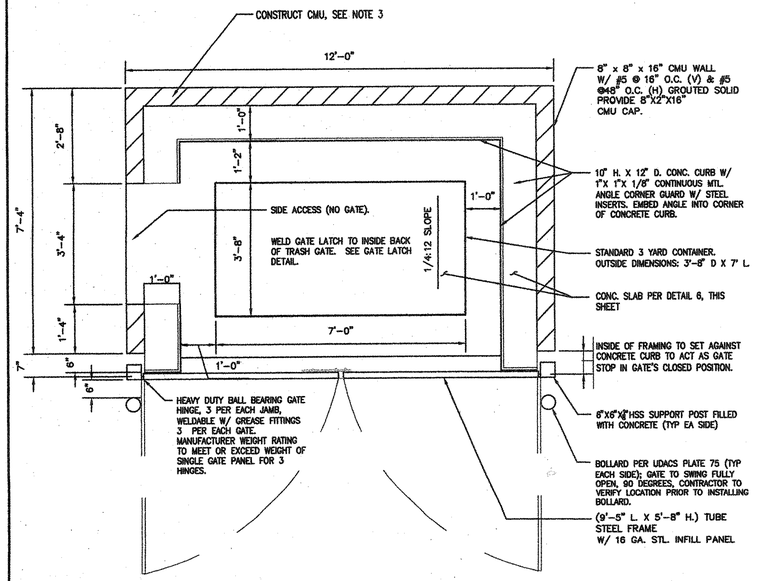
TRASH ENCLOSURE - SIDE ELEVATION (3)

SCALE:1/4"=1'-0"



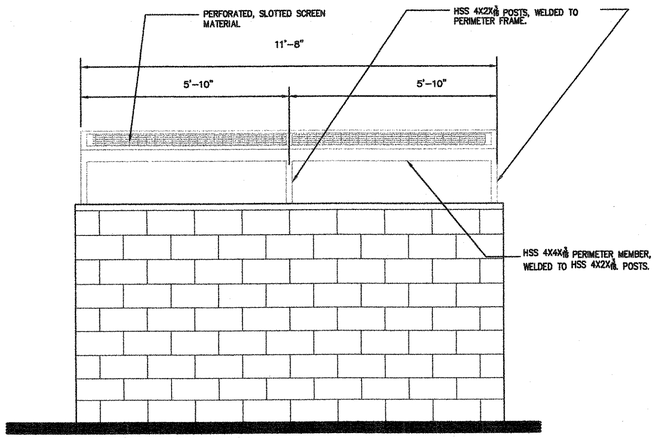
TRASH ENCLOSURE - TRELLIS PLAN (5)

SCALE:1/4"=1'-0"



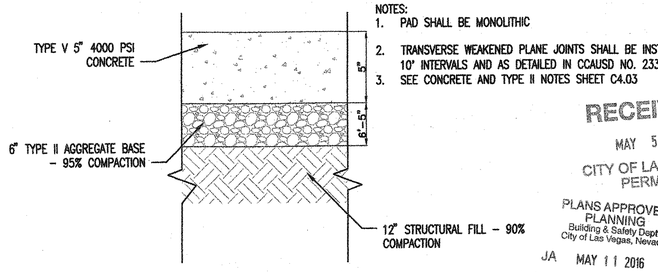
TRASH ENCLOSURE - PLAN (2)

SCALE:1/4"=1'-0"



TRASH ENCLOSURE - REAR ELEVATION (4)

SCALE:1/4"=1'-0"



NOTES:
1. PAD SHALL BE MONOLITHIC
2. TRANSVERSE WEAKENED PLANE JOINTS SHALL BE INSTALLED AT 10' INTERVALS AND AS DETAILED IN CCAUSD NO. 233, TYPE "C"
3. SEE CONCRETE AND TYPE II NOTES SHEET C4.03

NOTE:
1. STRUCTURAL FILL TO MEET CRITERIA IN PROJECT SPECIFICATIONS

TRASH ENCOSURE PAD (6)

SCALE: NOT TO SCALE

RECEIVED
MAY 5 2016
CITY OF LAS VEGAS
PERMITS

PLANS APPROVED
PLANNING
Building & Safety Dept.
City of Las Vegas, Nevada
JA MAY 11 2016

Conforms to the minimum requirements of LVMC Title 19, applicable Master Plan development standards and/or Conditions of Approval. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.

107V6612 H# 63762

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

TRASH ENCLOSURE DETAILS 1

STAMP
PROFESSIONAL ENGINEER
HELENA MURVOSH
Exp. 12/31/17
CIVIL
No. 016830
STATE OF NEVADA
3.24.16

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HANSEN NO	60316
SHT NO	C4.06
	16 OF 17

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DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE LICENSED DESIGN PROFESSIONAL WHETHER THE PROJECT FOR WHICH THEY WERE PREPARED IS EXECUTED OR NOT. THE REPRODUCTION OR UNAUTHORIZED USE OF THE DRAWINGS AND SPECIFICATIONS WITHOUT THE WRITTEN PERMISSION OF THE LICENSED DESIGN PROFESSIONAL IS PROHIBITED. ANY UNAUTHORIZED USE SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE LICENSED DESIGN PROFESSIONAL. ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT, PROVIDED COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE LICENSED DESIGN PROFESSIONAL. ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT, PROVIDED COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE LICENSED DESIGN PROFESSIONAL. ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT, PROVIDED COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE LICENSED DESIGN PROFESSIONAL.

GATE LATCH DETAIL

SCALE: NOT TO SCALE

1
-

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PERMITS

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CITY OF LAS VEGAS

DEPARTMENT OF PUBLIC WORKS

REVISIONS

CONSULTANT

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

TRASH ENCLOSURE DETAILS 2

STAMP

PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C4.07
	17 OF 17

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE CHAIN OF CUSTODIANSHIP APPEARS ON THE DRAWINGS AND SPECIFICATIONS. NO USE OR REPRODUCTION, IN WHOLE OR IN PART, WITHOUT WRITTEN CONSENT OF SUCH DESIGN PROFESSIONAL IS PROHIBITED AND ANY UNAUTHORIZED USE MAY SUBJECT THE VIOLATOR TO LEGAL ACTION. ALL COPIES OF THE DRAWINGS AND SPECIFICATIONS, REGARDLESS OF THE MEDIUM ON WHICH THEY ARE RECORDED, SHALL BE RETURNED OR DESTROYED UPON THE REQUEST OF THE DESIGN PROFESSIONAL. THE OWNER AGREES NOT TO USE THE DRAWINGS AND SPECIFICATIONS FOR ANY PURPOSE OTHER THAN THAT FOR WHICH THEY WERE PREPARED AND AGREES NOT TO TRANSFER THEM TO ANY OTHER PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. THE OWNER AGREES TO INDEMNIFY AND HOLD HARMLESS THE DESIGN PROFESSIONAL FROM ALL CLAIMS AND CAUSES OF ACTION ARISING OUT OF THE UNAUTHORIZED USE OF THE DRAWINGS AND SPECIFICATIONS.

GENERAL LANDSCAPING NOTES

1. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND APPLICABLE PROJECT PERMITS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, COORDINATION, SCHEDULING, UTILITY VERIFICATION AND DAMAGE TO OTHER TRADES AND/OR UTILITIES, AS PER CONTRACT GENERAL CONDITIONS.
3. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND REPORT ANY AND ALL DISCREPANCIES TO THE LANDSCAPE ARCHITECT AND CONSTRUCTION PROJECT REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION. CALL BEFORE YOU DIG 1-800-227-2600.
5. CONTRACTOR SHALL LIMIT WORK AREAS TO THAT SHOWN ON THE DRAWINGS.
6. CONTRACTOR SHALL PERFORM FINISH GRADING MODIFICATIONS TO AREAS REQUIRING GRADING, OR AS DIRECTED BY THE CONSTRUCTION PROJECT REPRESENTATIVE. GRADE AREAS SMOOTH TO MINIMIZE IRREGULARITIES AND LOW SPOTS.
7. ALL EXISTING TREES SCHEDULED TO REMAIN SHALL BE PROTECTED BY AN ORANGE CONSTRUCTION FENCE (4' HIGH) SECURED WITH STEEL T-POSTS AT THE DRIP LINE OF EACH TREE. SUFFICIENT POSTS SHALL BE USED TO MAINTAIN FENCE IN ERECT CONDITION AT ALL TIMES. NO GRADING SHALL COMMENCE WITHOUT CONSTRUCTION FENCING IN PLACE. HAND GRADING ONLY WILL BE ALLOWED WITHIN THE LIMITS OF CONSTRUCTION FENCING. NO MORE THAN 6" OF CUT OR FILL WILL BE ALLOWED WITHIN THE DRIP LINE OF ANY TREE SHOWN TO REMAIN ON THESE CONSTRUCTION PLANS.
8. TO THE MAXIMUM EXTENT FEASIBLE, TOPSOIL, EXISTING PLANTS, LANDSCAPE ROCK, AND OTHER LANDSCAPE FEATURES THAT ARE REMOVED DURING CONSTRUCTION ACTIVITY SHALL BE CONSERVED FOR LATER USE ON AREAS REQUIRING REVEGETATION AND LANDSCAPING. REPLACE ANY SALVAGED BOULDERS SUCH THAT 1/4 OF THE TOTAL MASS OF EACH BOULDER IS BELOW FINISHED GRADE.
9. BEFORE PLACING LANDSCAPE ROCK COMPACT SUB-GRADE TO 85% AND APPLY A PRE-EMERGENT HERBICIDE TO SOIL PER DETAIL ON CIVIL SHEETS.

IRRIGATION GENERAL NOTES:

1. CONTRACTOR TO DESIGN AND PROVIDE IRRIGATION PLAN TO OWNER REPRESENTATIVE FOR REVIEW AND APPROVAL. PLAN SHALL BE BASED ON REQUIREMENTS LISTED IN THE CONTRACT DRAWINGS AND SECTION 328400 OF PROJECT SPECIFICATIONS AND THE LAYOUT AND DETAILS SHOWN ON THE CONTRACT DRAWINGS.
2. IRRIGATION PLAN DESIGNED BY CONTRACTOR SHALL ACCOMMODATE FUTURE STREET TREES ALONG ALTA DRIVE AT 30' O.C. SPACING.
3. CITY STANDARD DETAILS PROVIDED IN THESE PLANS SHALL BE INCORPORATED INTO THE IRRIGATION DESIGN PROVIDED BY THE CONTRACTOR.
4. THE SYSTEM SUPPLY MINIMUM STATIC PRESSURE IS 40 PSI. WHICH THE CONTRACTOR SHALL VERIFY EXISTS AT THE SITE. SHOULD THE PRESSURE BE LESS THAN THIS, NOTIFY THE LANDSCAPE ARCHITECT SO ADJUSTMENTS CAN BE MADE.
5. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION. CALL BEFORE YOU DIG 1-800-227-2600.
6. CONTRACTOR SHALL CAREFULLY STUDY THE DRAWINGS, EXAMINE THE SITE, AND SHALL BE AWARE OF ALL EXISTING WORK AND CONDITIONS THAT COULD POSSIBLY AFFECT THE IRRIGATION WORK.
7. IRRIGATION LAYOUT IS DIAGRAMMATICAL. FOLLOW DRAWINGS AS CLOSE AS POSSIBLE, MAKING NO CHANGES OR ALTERATIONS WITHOUT PRIOR APPROVAL FROM THE CONSTRUCTION PROJECT REPRESENTATIVE.
8. FINAL LOCATION AND ELEVATIONS OF ALL VALVE BOXES, BACKFLOW PREVENTER, CONTROLLER, AND OTHER APPURTENANCES SHALL BE VERIFIED AND APPROVED BY THE CONSTRUCTION PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.
9. MAINLINE PIPE SHALL BE NO LESS THAN 18" BELOW FINISH GRADE. DRIP LATERAL LINES SHALL BE NO LESS THAN 12" BELOW FINISH GRADE. MAIN AND DRIP LATERAL LINES SHALL BE SURROUNDED WITH A MINIMUM OF 4" OF SAND OR ROCK FREE SOIL.
10. MAINLINE PIPE SIZES SHOWN ON DRAWINGS. DRIP LATERAL SIZES ARE AT THE DISCRETION OF THE CONTRACTOR.
11. CONTRACTOR SHALL FURNISH AND INSTALL AN IRRIGATION SYSTEM THAT PROVIDES THE REQUIRED AMOUNT OF GPH TO ALL NEW PLANTINGS. MAINTAIN AND PROVIDE RECORD DRAWINGS AS REQUIRED BY THE CONTRACT DOCUMENTS THAT CLEARLY SHOW ALL INSTALLED IRRIGATION COMPONENTS.

IRRIGATION LEGEND/NOTES:

POINT OF CONNECTION/P.O.C.' T'
Tie Onto Existing Line At Location Shown On Drawings.

GATE / BALL VALVE ⋈
Nibco Series Or Approved Equal- (Line Size). Install At Locations Shown On Drawings Per Detail

QUICK COUPLER VALVE ○
Rainbird 44 NP 30 GPM Capacity. Install At Locations Shown On Drawings Per Detail

IRRIGATION CONTROLLER/CCU [A]
Rainbird ESP12-SITE-S Station Controller Pedistal Mount, Outdoor Enclosure. Install At Location Shown On Drawings Per Detail. Connect Controller To building single phase, 120/110 VAC Power Source

AUTOMATIC CONTROL DRIP VALVE ASSEMBLY ⊗
Hunter ICV-101G Control Valve. Rainbird Wye Filter RBY-100-200MX. Rainbird PRF-100RBY Pressure Regulator. Install At Locations Shown On Drawings Per Detail

DRIP EMITTERS
SALCO SLV-PS-1 AND SLV-PS-2. Install Emitters On The Uphill Side of The Rootball At Slope Locations. Equally Space The Required Number Of Emitters Around The Perimeter Of The Plant. (At Edge Of Rootball And Beyond For Trees)

DRIP END BALL VALVE ∘
Flush Laterals And Install Drip End Ball Valves At Approximate Locations Shown On Drawings Per Detail

MAINLINE PIPE — — —
Schedule 40 PVC Pipe, Schedule 80 Fittings. Pipe Sizes And Locations Shown On Drawings

DRIP LATERAL PIPE — —
Schedule 40 PVC Pipe, Schedule 80 Fittings. Pipe Locations Shown On Drawings Are Diagrammatical. Pipe Installation Routes And Sizes Are At The Discretion Of The Contractor. Size PVC Pipe Adequately, Keeping Friction Loss To A Minimum. This Will Allow Drip Emitters To Operate Within Their Pressure Operating Range. (15 To 50 PSI) Recommended PVC Pipe Sizes Are 3/4" And 1"

DRIP LATERAL HOSE
1/2" SALCO FLEX TUBING, AT PLANT LOCATIONS SHOWN ON DRAWINGS. CONNECT TO MAIN LATERAL PER DETAIL. (Drip Lateral Hose Not To Exceed Maximum Length Of 48')

DRIP LINE TUBING
NETAFIM TUBING. Install In Grids Around Trunk Spaced Per Detail. Providing Additional Rows Of Tubing Until The Required GPH Shown On Detail Are Fulfilled. Install 2' Below Soil Surface. Place Mulch Cover Over Soil Surface. Install Flushing Valve At The End(S) Of Every Inline Tubing Zone Provide Air Relief Valve At Highest Point Of Each Irrigation Zone.

SLEEVES ═ ═
Irrigation Sleeve Locations And Sizes Shown On The Drawings. Schedule 40 PVC Pipe.

CONTROL WIRE
UF-UL 14 Gauge Direct Burial Wire, Install 2 Extra Wires/Valve And One Extra For Mainline Stub. Follow Mainline Piping Where Possible. Wire Color Shall Be Continuous Over Entire Length. All Splicing Of Wire Shall Occur Within The Valve Box At Valve Locations Using Snap-Tite Wire Connectors. Intermediate Splicing Of Wire Is Not Allowed. Use White For Common Ground Wire. Use Easily Distinguished Colors For Control Wire. Install One (1) Spare (Extra) Wire Looped Through Each Valve Location Spare Wire shall be different from that of active wires.

MAXI CABLE
Add applicable notes

BACKFLOW PREVENTER [⊠]
Febco Model No 825 YR 1" Reduced Pressure Principle Assembly. Install in Fiberglass Enclosure At Location Shown on drawing per UDS Std. Plate No. 11A
No water shall be taken from a service requiring backflow prevention until the RPPA has been sucessfully tested.

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PERMITS

HYDROSTATIC TEST: UPON COMPLETION OF THE IRRIGATION MAIN AND PRIOR TO THE INSTALLATION OF ANY CONTROL VALVES, TEST THE ENTIRE MAIN OR PORTIONS OF THE MAIN FOR PROPER OPERATION. FLUSH ALL AIR FROM THE MAINS BEING TESTED AND CHECK ALL COMPONENTS FOR PROPER OPERATION. AFTER COMPLETION OF THE FLUSHING OPERATION, TEST THE MAIN LINES WITH 150 PSI HYDROSTATIC PRESSURE FOR A MINIMUM OF 2 HOURS. AFTER THE PRESSURE WITHIN THE MAINS HAS STABILIZED, NO PRESSURE LOSS WILL BE ALLOWED FOR THE TEST PERIOD. REMOVE AND/OR REPLACE ANY ITEM OR COMPONENT OF THE SYSTEM WHICH DOES NOT COMPLY WITH THE TEST, AND TEST THE ENTIRE SYSTEM AGAIN UNTIL SATISFACTORY TEST RESULTS ARE OBTAINED. CONTRACTOR SHALL REQUEST OBSERVATION BY THE CONSTRUCTION PROJECT REPRESENTATIVE 48 HOURS PRIOR TO TESTING. THE TEST SHALL BE MADE IN THE PRESENCE OF THE CONSTRUCTION PROJECT REPRESENTATIVE, SIGNED AND DATED.

CONSTRUCTION PROJECT REPRESENTATIVE _____ DATE _____

COVERAGE OBSERVATION: UPON COMPLETION OF THE IRRIGATION SYSTEM, CONTRACTOR SHALL PERFORM A COVERAGE TEST WITH THE CONSTRUCTION PROJECT REPRESENTATIVE PRESENCE ON ALL COMPONENTS OF THE SYSTEM TO VERIFY 100% COVERAGE. THE CONTRACTOR SHALL PERFORM ALL WORK AND FURNISH ALL MATERIALS NECESSARY TO CORRECT ANY INADEQUACIES AND ADJUST EMITTERS AS REQUIRED.

CONSTRUCTION PROJECT REPRESENTATIVE _____ DATE _____

AS BUILT

CITY OF LAS VEGAS NEVADA

REVISIONS

CONSULTANT

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FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

LANDSCAPE NOTES
IRRIGATIONS NOTES AND LEGEND

STAMP

PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830
5.25.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4646
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	L1.01

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ALTA DR (PUBLIC)

DESERT LN (PUBLIC)

NORTH

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

DRIP END BALL VALVE (TYP)
3/4" PVC (TRO)
2-1/2" SLEEVE
EXISTING SLEEVES
3/4" PVC (TREE)
3/4" PVC (SHRUB)
3/4" PVC (TRO)
END 1 1/2" PVC; START 3/4" PVC (SHRUB AND TREE)
1 1/2" PVC MAIN; CAP END IN ROUND BOX
3/4" PVC (TRO)
1 1/2" PVC (MAIN)
1 1/2" PVC IN 2-1/2 SLEEVE (MAIN, SHRUB AND TREE)
1 1/2" PVC (MAIN)
APPROX. POINT OF CONNECTION
NETAFIRM END FEED LAYOUT (TYP), PER DETAIL L1.04
NETAFIRM END FEED LAYOUT (TYP), PER DETAIL L1.04
3/4" PVC (SHRUB)
1 1/2" PVC (TREE)
INSTALL QUICK COUPLER, PER DETAIL SHEET L1.03
INSTALL SITE SATELLITE CONTROLLER. CONNECT CONDUIT FROM SITE SATELLITE CONTROLLER TO TELEPHONE TERMINAL AND ELECTRICAL SERVICE PANEL, PER SPEC 328400 SEC 2.16
2-1/2" SLEEVE
3/4" PCV (FROM TREE) IN 1-1/2" SLEEVE (TYP EA. DPV)
2-1/2" SLEEVE
END 1 1/2" PVC; START 3/4" PVC (SHRUB AND TREE)
3/4" PVC (SHRUB)
3/4" PVC (TREE)

KENYON PL (PUBLIC)

AS BUILT

PLANS APPROVED
PLANNING
Building & Safety Dept.
City of Las Vegas, Nevada
JA MAY 11 2016
Conforms to the minimum requirements of LVMC Title 19, applicable Master Plan development standards and/or Conditions of Approval. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.

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CITY OF LAS VEGAS
PERMITS

NOTE:
1. THE IRRIGATION LAYOUT SHOWN ON THIS PLAN IS DIAGRAMMATICAL. IT SHOWS THE NUMBER OF REQUIRED IRRIGATION LINES AND VALVES FOR THE IRRIGATION PLAN. IT SHALL BE USED AS A BASIS OF DESIGN FOR THE IRRIGATION PLAN SUBMITTED BY THE CONTRACTOR FOR APPROVAL. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL ITEMS ON THE IRRIGATION PLAN THAT ARE DEEMED NECESSARY TO PROVIDE A COMPLETE DESIGN.
2. "MAIN" INDICATES MAINLINE
"TRO" INDICATES MAIN LATERAL FOR TEXAS RED OAK IRRIGATION
"TREE" INDICATES MAIN LATERAL FOR ALL OTHER TREE IRRIGATION
"SHRUB" INDICATES MAIN LATERAL FOR SHRUB IRRIGATION

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

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FAX: (702) 369-9793

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE URE UPGRADES

IRRIGATION PLAN

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016830
F. 22. 16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
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TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	L1.02

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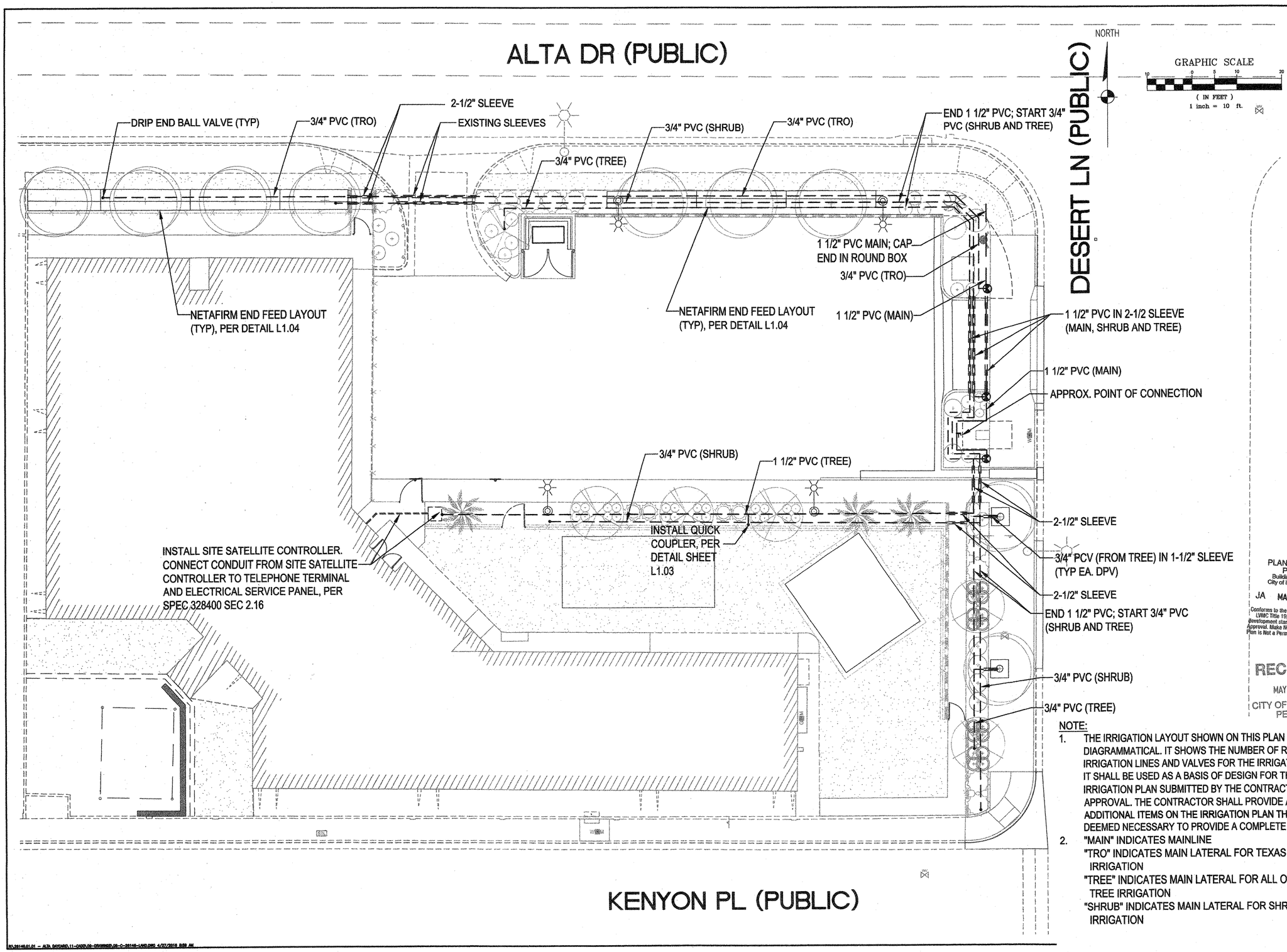

PLANS APPROVED
PLANNING
Building & Safety Dept.
City of Las Vegas, Nevada
JA MAY 11 2016
Conforms to the minimum requirements of LVMC Title 19, applicable Master Plan development standards and/or Conditions of Approval. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.

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CITY OF LAS VEGAS
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NOTE:

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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ALTA DAYCARE UPGRADES
IRRIGATION PLAN

STAMP
PROFESSIONAL ENGINEER
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 016930
STATE OF NEVADA
4.29.16

OWNER: CITY OF LAS VEGAS
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JHANSEN NO	60316
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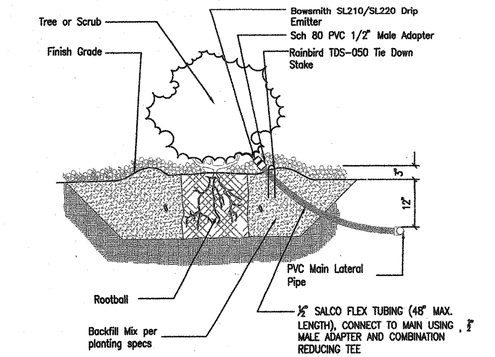
AS BUILT

DETAILS SHOWN ON THIS PAGE ARE THE CITY OF LAS VEGAS' STANDARD IRRIGATION DETAILS, WHICH ARE REQUIRED FOR USE ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND REFERENCE THE APPROPRIATE DETAIL ON THE IRRIGATION PLAN THAT IS SUBMITTED FOR APPROVAL. AS PART OF THE SUBMITTED DESIGN, THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL INFORMATION OR ADDITIONAL DETAILS DEEMED NECESSARY TO PROVIDE A COMPLETE DESIGN ON THE IRRIGATION PLAN. THE ENGINEER IS NOT RESPONSIBLE FOR ANY INFORMATION CONTAINED IN THESE STANDARD IRRIGATION DETAILS OR FOR ANY USE MADE OF THESE BY THE CONTRACTOR.

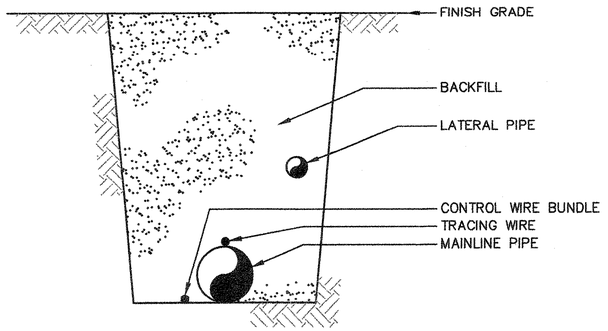
NOTE:
Install Emitters On The Uphill Side of the Rootball at Slope Locations. Equally Space The Required Number of Emitters Around The Perimiter of the Tree or Scrub at Edge of Rootball.

EMITTER QUANTITY

Plant Size	QTY	GPH.
5 CAL.	2	1

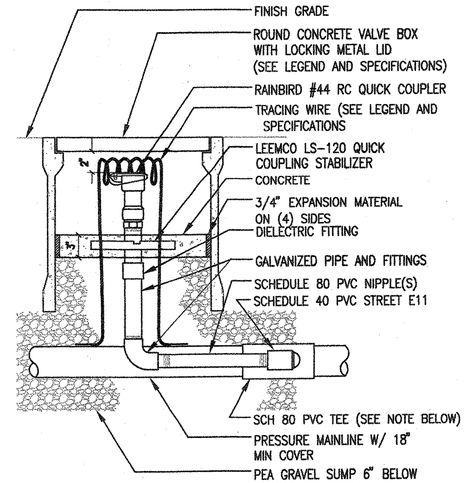


SHRUB EMITTER
SCALE: NTS 32-02



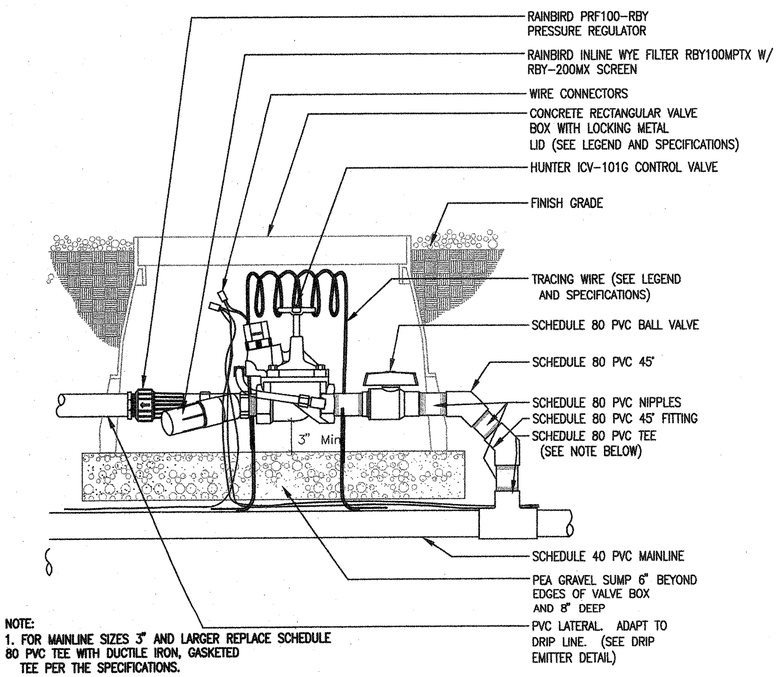
NOTE:
1. REFER TO IRRIGATION SPECIFICATIONS FOR COVERAGE DEPTH TO BURIED PIPE AND WIRE.
2. REFER TO SPECIFICATIONS FOR THRUST BLOCK SIZING ON MAINLINE SIZES 3" AND LARGER.

TRENCH DETAIL
SCALE: NTS



NOTE:
1. FOR MAINLINE SIZES 3" AND LARGER REPLACE SCHEDULE 80 PVC TEE WITH DUCTILE IRON, GASKETED TEE PER THE SPECIFICATIONS.

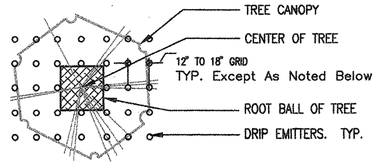
QUICK COUPLER DETAIL
SCALE: NTS



NOTE:
1. FOR MAINLINE SIZES 3" AND LARGER REPLACE SCHEDULE 80 PVC TEE WITH DUCTILE IRON, GASKETED TEE PER THE SPECIFICATIONS.

CONTROL VALVE
SCALE: NTS

NOTES:
1. THIS IS A SUGGESTED EMITTER LAYOUT PLAN. ACTUAL LAYOUT MAY VARY DEPENDING ON SURROUNDING FEATURES. THE INTENT IS TO PROVIDE WATER FOR FUTURE ROOT GROWTH.
2. ADJACENT TREES AND SHRUBS MAY SHARE THE SAME EMITTER WHERE PATTERNS OVERLAP.
3. BEGIN PLACEMENT OF EMITTERS ADJACENT TO ROOT BALL OF THE TREE AND WORK OUTWARD IN ALL DIRECTIONS UNTIL THE REQUIRED NUMBER OF EMITTERS IS OBTAINED. WHERE LARGE TREES ARE INSTALLED IN NARROW PLANTERS REDUCE THE QUANTITY OF EMITTERS TO FIT THE SPACE. 4'-0" SQUARE PLANTERS ONLY NEED FOUR EMITTERS. KEEP ALL EMITTERS 18" FROM ANY CURB, WALK OR OTHER PLANTER EDGE AND 36" FROM ANY BUILDING OR STRUCTURE.

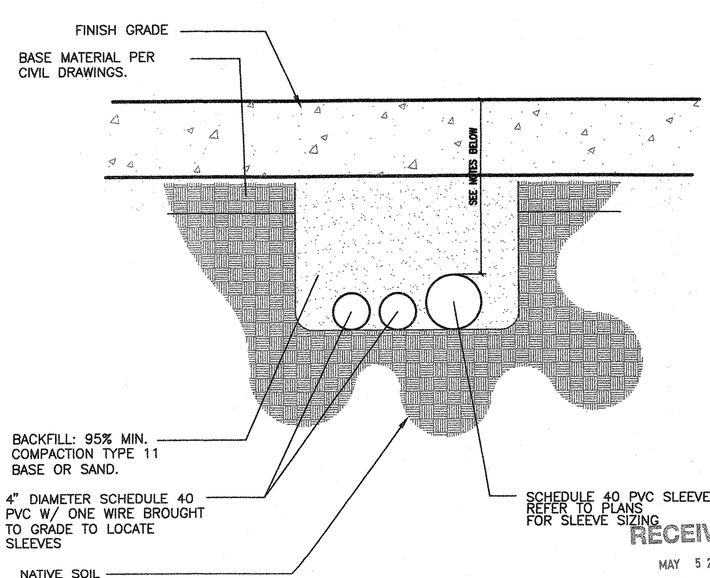


EMITTER QUANTITIES

TREE SIZE	QUANTITY	GPH *
24" BOX	8	2
36" BOX	10	2

* QUERCUS BUCKLEY: USE 24" SPACED GRID AND 0.6 GPH/EMITTER

TREE EMITTER LAYOUT
SCALE: NTS



NOTE:
1. REFER TO SPECIFICATIONS FOR COVERAGE DEPTH TO BURIED SLEEVE OR CONDUIT.

SLEEVE DETAIL
SCALE: NTS

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AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

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Stanley Consultants INC.
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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

IRRIGATION DETAILS

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
HELENA MURVOSH
Exp: 12/31/17
CIVIL
No. 018830
4.28.16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	
JOB NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	L1.03

DRAWINGS AND SPECIFICATIONS, METHODS OF THE CLIENT AND ARE LIMITED ONLY FOR ACCEPTING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT. ALL C 453.705

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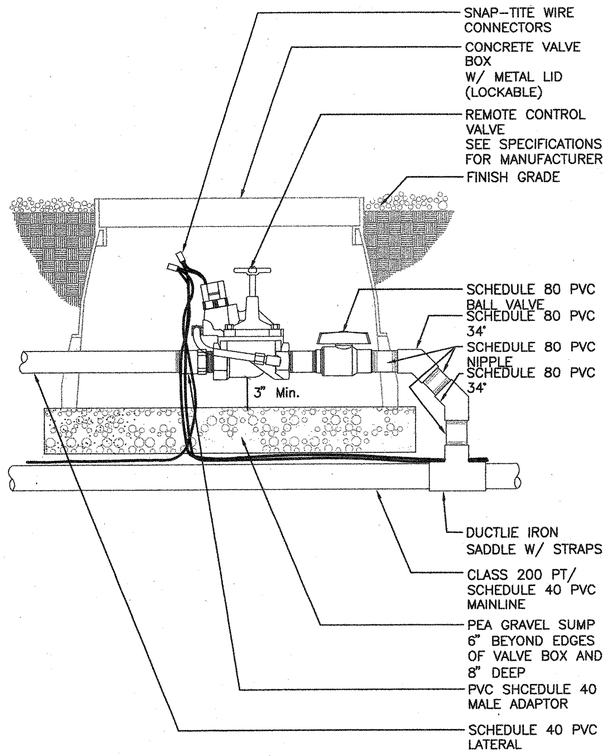
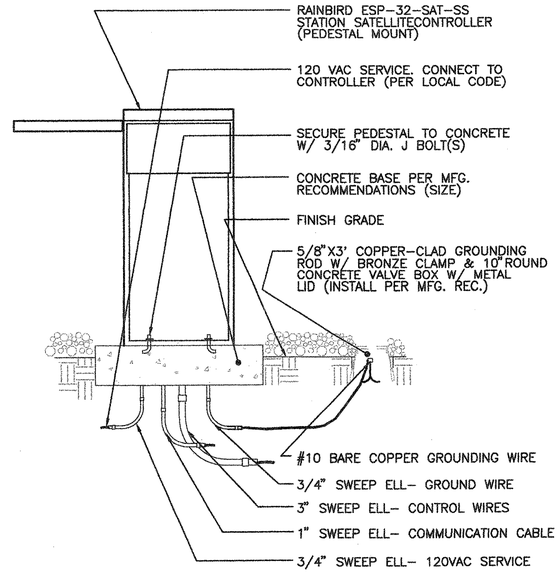


REMOTE CONTROL VALVE

SCALE: N.T.S. L3-06



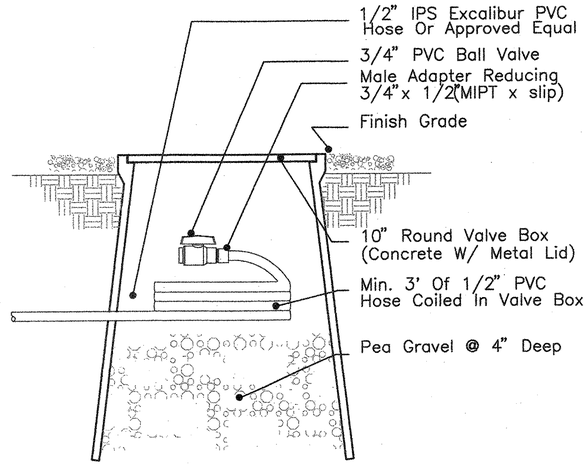
NOTES:

- CONTRACTOR TO GROUND AND PROVIDE SURGE PROTECTION FOR FIELD SATELLITE UNIT IN ACCORDANCE W/ MANUF. RECOMMENDATIONS AND GROUND ROD SHOWN. CONTRACTOR SHALL INSTALL A 20 AMP NON-FUSED DISCONNECT AND 120V DUPLEX RECEPTACLE. INSIDE PEDESTAL.
- INSTALL CONTROLLER PER MFG. PRINTED INSTRUCTIONS AND PER LOCAL CODES. LOCATION SHOWN ON DRAWINGS OR APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

STATION SATELLITE CONTROLLER

SCALE: N.T.S. L3-03

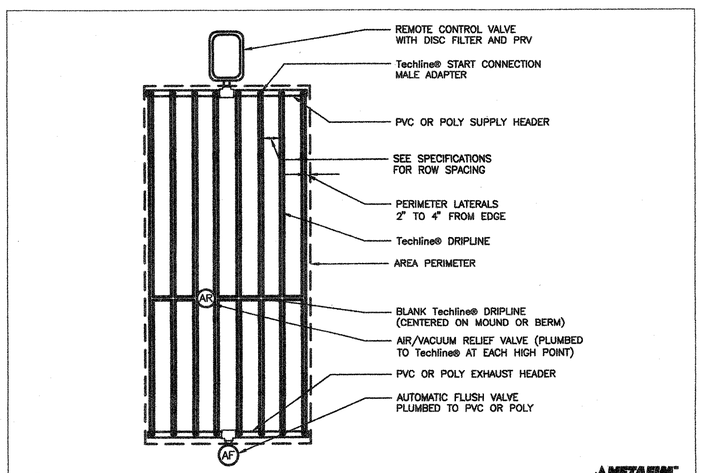
DETAILS SHOWN ON THIS PAGE ARE THE CITY OF LAS VEGAS' STANDARD IRRIGATION DETAILS, WHICH ARE REQUIRED FOR USE ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND REFERENCE THE APPROPRIATE DETAIL ON THE IRRIGATION PLAN THAT IS SUBMITTED FOR APPROVAL. AS PART OF THE SUBMITTED DESIGN, THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL INFORMATION OR ADDITIONAL DETAILS DEEMED NECESSARY TO PROVIDE A COMPLETE DESIGN ON THE IRRIGATION PLAN. THE ENGINEER IS NOT RESPONSIBLE FOR ANY INFORMATION CONTAINED IN THESE STANDARD IRRIGATION DETAILS OR FOR ANY USE MADE OF THESE BY THE CONTRACTOR.



NOTE: Connect 1/2" IPS Excalibur PVC Hose To Drip Lateral PVC Pipe With The Appropriate Fittings At The End Of All Drip Lateral Runs.

DRIP END BALL VALVE

SCALE: N.T.S.



00 Techline® END FEED LAYOUT

NOT TO SCALE DETAIL - A101

NETAFIM

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DATE	03/23/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	L1.04

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PLANTING NOTES

1. INSTALL A 2" LAYER OF DECOMPOSED GRANITE CONTINUOUS IN ALL PLANTERS UNDER ALL TREES AND SHRUBS. AFTER PLACING RAKE SMOOTH, WET TO ENTIRE DEPTH, ALLOW TO DRY. APPLY A SECONDARY APPLICATION OF PRE-EMERGENT HERBICIDE TO TOP OF LANDSCAPE ROCK. KEEP TOP OF ROCK 1" BELOW ADJACENT WALKS AND CURBS. DO NOT ALLOW ROCK TO TOUCH THE TRUNK OF ANY PLANT. INSTALL AFTER INSTALLATION OF PLANT MATERIAL.
2. ALL MULTI-TRUNK TREES ARE TO HAVE 3 TO 4 TRUNKS. THE LOWEST HORIZONTAL BRANCHING PATTERN (CLEAR STEM HEIGHT) FROM ANY TRUNK ON ONE TREE SHALL BE A MINIMUM OF 30" FROM FINISH GRADE.
3. LAYOUT OF PLANT MATERIAL IN PLANTING AREAS SHALL BE APPROVED BY THE CONSTRUCTION PROJECT REPRESENTATIVE PRIOR TO INSTALLATION. COORDINATE THESE AREAS WITH IRRIGATION LAYOUT. ALL TREE AND SHRUB LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE CONSTRUCTION MANAGER.
4. PLANTS SHALL BE INSTALLED IMMEDIATELY UPON DELIVERY TO SITE, IF THIS IS NOT POSSIBLE, PLANTS SHALL BE HEALED IN AND WATERED TO PREVENT DEHYDRATION.
5. PLANTS SHOULD BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING, ALLOWING WATER TO SOAK DOWN AND FILL REMAINDER OF HOLE WITH LOOSE SOIL. WITHOUT FURTHER PACKING, A MOUND OF SOIL SHALL BE FORMED AROUND THE EDGE OF EACH TREE PIT TO FORM A SHALLOW SAUCER.
6. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH AAN (AMERICAN ASSOCIATION OF NURSERYMEN) SPECIFICATIONS FOR NUMBER ONE GRADE.
7. STAKE TREES ONLY WHEN NEEDED.
8. PLANT QUANTITIES ARE FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY.
9. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
10. MINOR CHANGES IN SPECIES AND PLANT LOCATIONS MAY BE MADE DURING CONSTRUCTION AS REQUIRED BY SITE CONDITIONS OR AVAILABILITY. OVERALL QUALITY AND DESIGN CONCEPT TO BE CONSISTENT WITH APPROVED LANDSCAPE PLANS. ANY CHANGES WILL BE PROVIDED TO CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL.
11. SEE DETAILS AND SPECIFICATIONS FOR PLANTING PROCEDURES.
12. TILL NATIVE SOIL TO A DEPTH EQUAL TO THE ROOTBALL DEPTH, REMOVE ROCKS LARGER THAN 1 1/2 " DIA. ADD AMENDMENTS PER SOIL MIX NOTE BELOW.

QUERCUS BUCKLEYI SHALL BE LOW BRANCHING, SEE ADDITIONAL NOTES ON SHEET L1.01.

SOIL MIX NOTE

SOIL MIX NOTE:
SOIL MIX: BACKFILL MIX FOR ALL TREES AND SHRUBS TO BE THOROUGHLY MIXED IN THE TILLED NATIVE SOIL AREA OF THE PLANTING HOLE AND CONSIST OF THE FOLLOWING:

- 8 PARTS BY VOLUME ONSITE SOIL (NO PARTICLE OVER 1 1/2" DIA.)
- 2 PARTS BY VOLUME COMPOST SOIL ADDITIVE

AFTER PLANT INSTALLATION, EVENLY BROADCAST THE FOLLOWING AMENDMENTS OVER THE TILLED NATIVE SOIL AREA AROUND THE ROOTBALL OF THE PLANS AND WORK INTO THE TOP 2" OF SOIL:

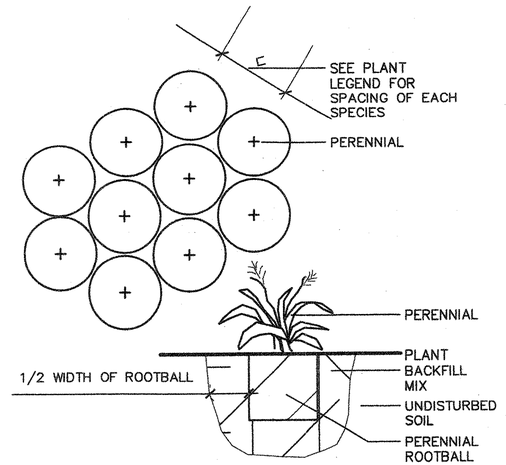
- 1 LB 15-15-15- FERTILIZER PER 25 SQ FT OF TILLED SURFACE AREA
- 2 LBS IRON SULFATE PER PER 25 SQ FT OF TILLED SURFACE AREA

QUERCUS BUCKLEYI

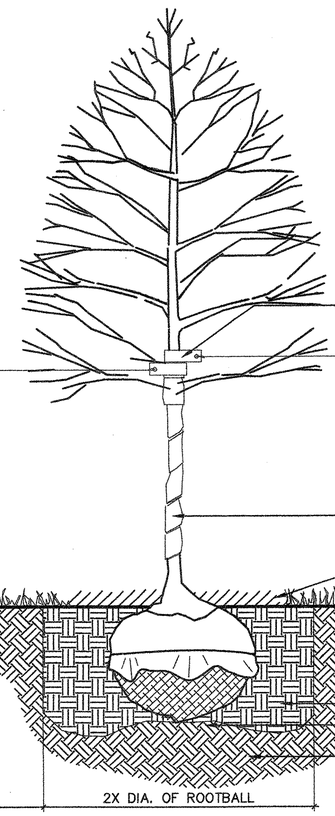
1. TREES TO BE LOW BRANCHING.
2. BACKFILL SHALL CONSIST OF A MINIMUM OF 25% ORGANIC MATTER, EVENLY DISTRIBUTED.
3. IRRIGATION TO BE 0.6 GPH EMITTERS WITH NETAFIM GRID AT 24" SPACING
4. NO COMPACTION WITHIN 3' OF TRUNK

PLANT SCHEDULE

QTY	CODE	COMMON NAME	SCIENTIFIC NAME	SIZE	COND.	CAL.
TREES						
3	CHT	CHASTE TREE	VITEX AGNUS-CASTUS	24" BOX	BOX	2.5" CAL.
2	DPV	DESERT MUSEUM PALO VERDE	CERCIDIUM 'DESERT MUSEUM'	24" BOX	B&B	2.5" CAL.
3	ORC	ORCHID TREE	BAUHINIA LUNAROIDES	24" BOX	B&B	2.5" CAL.
7	TRO	TEXAS RED OAK	QUERCUS BUCKLEYI	24" BOX	B&B	2.5" CAL.
3	WMP	WINDMILL PALM	TRACHYCARPUS FORTUNEI	24" BOX	B&B	2.5" CAL.
DECIDUOUS SHRUB						
7	CBW	CALIFORNIA BUCKWHEAT	ERIOGONUM FASCICULATUM	5 GAL.	CONT.	
6	JRS	JERUSALEM SAGE	PHLOMIS FRUTICOSA	5 GAL.	CONT.	
2	LTR	LYNN'S LEGACY TEXAS RANGER	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY'	5 GAL.	CONT.	
6	RBP	RED BIRD OF PARADISE	CAESALPINIA PULCHERRIMA	5 GAL.	CONT.	
5	SWB	SWEET BUSH	BEBBIA JUNCEA	5 GAL.	CONT.	
EVERGREEN SHRUB						
4	GGJ	GRAY GLEAM JUNIPER	JUNIPERUS SCOPULORUM 'GRAY GLEAM'	5 GAL.	CONT.	
12	VEB	VALENTINE EMU BUSH	EREMOPHILA MACULATA 'VALENTINE'	5 GAL.	CONT.	
PERENNIAL / GRASS						
4	BES	BLACK EYED SUSAN	RUDBECKIA HIRTA	1 GAL.	CONT.	
24	BFD	BLACK FOOT DAISY	MELAMPODIUM LEUCANTHUM	1 GAL.	CONT.	
16	PMG	REGAL MIST MUHLY GRASS	MUHLENBERGIA CAPILARIS 'REGAL MIST'	1 GAL.	CONT.	

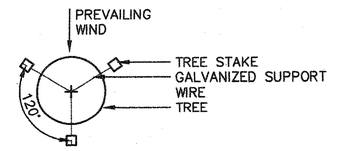


PERENNIAL PLANTING
SCALE: NTS PLNT-PERN

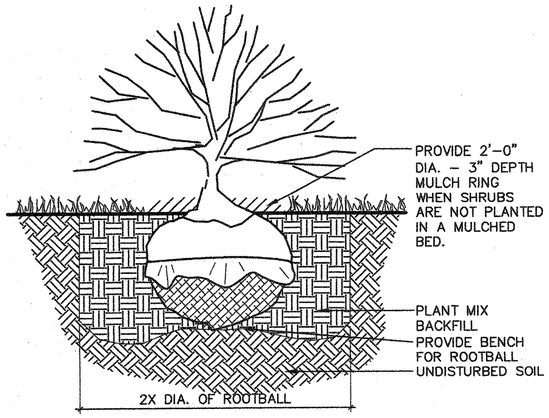


DECIDUOUS TREE PLANTING
SCALE: NTS

NOTES:
1. TREES SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE 3" AT THE TOP OF THE ROOT BALL. TREES THAT DO NOT HAVE VISIBLE TRUNK FLARE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
2. IN THE FALL WRAP ENTIRE SURFACE OF TRUNK TO SECOND BRANCH WITH APPROVED TREE WRAP. SECURE AT 2" INTERVALS. DO NOT WRAP POPULUS SPECIES. SUPPORT WIRE TO BE GALVANIZED. ATTACH TO TREE WITH 2" CLOTH BAND OR APPROVED EQUAL ABOVE FIRST BRANCH.
3. STAKE TREES (2" CAL AND LARGER) AS SHOWN WITH 6' LONG WOOD OR PEELED POLE STAKES. STAKES AT 120 DEGREES. EXTEND STAKE 2'-0" INTO GROUND. POSITION OF STAKES TO BE ORIENTED WITH REGARD TO PREVAILING WINDS.
4. FOLD BACK WIRE, WIRE BASKETS, NYLON TIES, TWINE, ROPE AND BURLAP ⅓ MINIMUM FROM TOP AND SIDES OF ROOT BALL. REMOVE UNNECESSARY PACKING MATERIAL.
5. PLACE A 3'-0" DIA. MULCH COLLAR WHEN TREES ARE PLANTED IN SOD. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. PROVIDE 3" PLANTING RIM AROUND MULCH WHEN PLANTED IN NATIVE SEED AREA.
6. DO NOT CUT CENTRAL LEADER. PRUNE ONLY DEAD OR DAMAGED WOOD PRIOR TO PLANTING.



STAKING PLAN



SHRUB PLANTING
SCALE: NTS PLNT-SHRB

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CITY OF LAS VEGAS
PERMITS

PLANS APPROVED
PLANNING
Building & Safety Dept.
City of Las Vegas, Nevada
MAY 11 2016

Conforms to the minimum requirements of LVMC Title 19, applicable Master Plan development standards and/or Conditions of Approval. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.

PLNT-TREE-DECID.A

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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ALTA DAYCARE UPGRADES
PLANT SCHEDULE, LANDSCAPE DETAILS

STAMP
REGISTERED LANDSCAPE ARCHITECT
MARK MCKINLEY JOHNSON
No. 540
Expires: 6-30-16
STATE OF NEVADA
5/23/16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN MJS
FILE
DATE 03/23/2016
SCALE
BID NO 15.60316.JH
CLV DWG NO 521.301
HANSEN NO 60316
SHT NO L2.01

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ALTA DR (PUBLIC)

DESERT LN (PUBLIC)

KENYON PL (PUBLIC)

NORTH

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

CRUSHER FINES, TYP.
SEE DETAIL 5 SHEET C4.03

1/4" MINUS DG PINK CORAL
STONE TO MATCH EXISTING, TYP.
SEE DETAIL 4 SHEET C4.03

LANDSCAPE EDGING

EXISTING TREE

5 VEB
1 CHT
4 CBW

3 TRO
3 SWB

2 LTR
2 SWB

4 TRO
1 VEB
3 CBW

1/4" MINUS DG PINK CORAL
STONE TO MATCH EXISTING, TYP.

2 RBP
1 ORC
8 BFD
2 WMP

1 WMP
1 ORC
8 BFD
2 GGJ

1 ORC
8 BFD
2 GGJ

3 JRS
4 BES

3 JRS
1 DPV

INSTALL 4'X4' TREE
GRATE MODEL NO.
R-87061A 180 DEGREE
SQUARE BY NEENAH
FOUNDRY (TYP)

3 VEB

INSTALL SITE SATELLITE CONTROLLER.
CONNECT CONDUIT FROM SITE SATELLITE
CONTROLLER TO TELEPHONE TERMINAL
AND ELECTRICAL SERVICE PANEL, PER
SPEC 328400 SEC 2.16

SYNTHETIC TURF, TYP.

8 PMG
1 ORC

MIRACLE RECREATIONAL EQUIPMENT
TOT PLAYGROUND OR EQUIVALENT
SEE SHEET L3.01

SYNTHETIC
TURF, TYP.

ALTERNATIVE: 16' x 35' HIP ROOF SHELTER
WITH SHADE FABRIC PER SPECIFICATIONS

WOODCHIP PLAY SURFACE,
ALTERNATIVE: POURED-IN-PLACE
RUBBER PLAYGROUND SURFACE
PER DETAIL 3 SHEET C4.03

1 DPV
4 RBP

EXISTING
SHADE STRUCTURE

20' x 24' HIP ROOF SHELTER WITH
SHADE FABRIC PER SPECIFICATIONS

1 ORC
8 PMG
3 VEB

SYNTHETIC
TURF, TYP.

WOODCHIP PLAY SURFACE,
ALTERNATIVE: POURED-IN-PLACE
RUBBER PLAYGROUND SURFACE
PER DETAIL 3 SHEET C4.03

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ALTA DAYCARE UPGRADES
LANDSCAPE PLAN

STAMP
5/28/16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
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DATE 03/23/2016
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SHT NO L2.02

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LANDSCAPE PLAN CHECKLIST

1617 Alta Drive

North Property Line Landscape Buffer

Trees - Species/Type	Quantity	Size	Installed Y/N
Texas Red Oak	7	24" box	

Shrubs - Species/Type	Min. Quantity	Size	Installed Y/N
Sweet Bush	4 five gallon shrubs per shade tree		
Valentine EMU Bush			
Red Bird of Paradise			

East Property Line Landscape Planter

Trees - Species/Type	Quantity	Size	Installed Y/N
Desert Museum Palo Verde	2	24"box	
Orchid Tree	2	24"box	

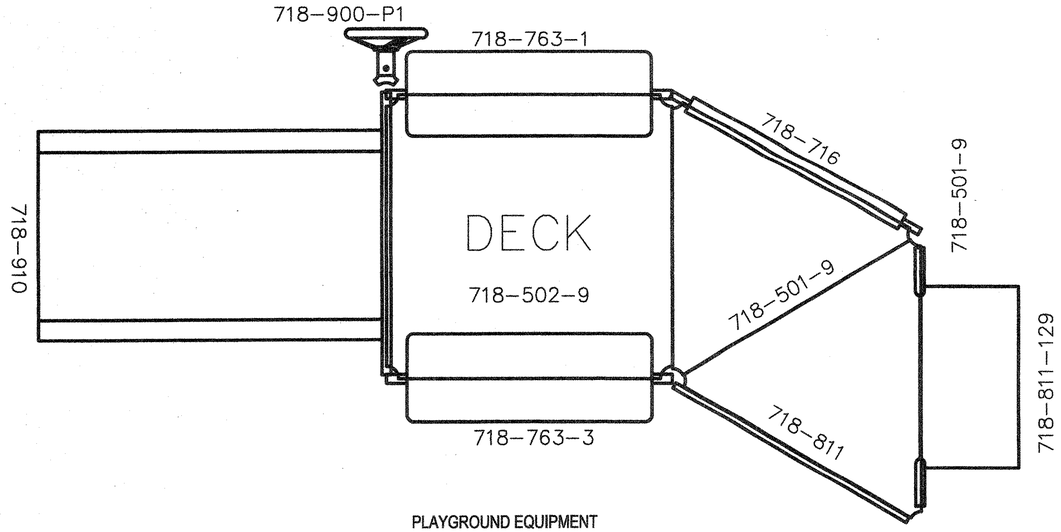
Shrubs - Species/Type	Min. Quantity	Size	Installed Y/N
Sweet Bush	4 five gallon shrubs per shade tree		
Valentine EMU Bush			
Red Bird of Paradise			

INSPECTOR SIGNATURE

DATE

Building Permit No.:	CLV No. 63325

AS BUILT



PLAYGROUND EQUIPMENT

1. CONTRACTOR SHALL USE A MIRACLE RECREATION EQUIPMENT COMPANY TOTS CHOICE STRUCTURE MODEL NUMBER 718-S050J, OR AN APPROVED EQUAL.
2. CONTRACTOR SHALL INSTALL THE PLAYGROUND COMPONENTS (MIRACLE RECREATION EQUIPMENT COMPANY COMPONENT NUMBER 718-XXX-XXX) SHOWN IN THESE PLANS, OR AN APPROVED EQUAL.
3. THE COLOR SHALL MATCH COLORS SHOWN IN THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL INSTALL THE PLAYGROUND EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

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REVISIONS

ALTA DAYCARE UPGRADES
PLAYGROUND EQUIPMENT

STAMP

5/24/16

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HANSEN NO	60316
SHT NO	L3.01

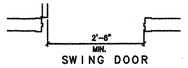
DRAWINGS AS INSTRUMENTS OF STANLEY ARE THE PROPERTY OF THE ECHO PROFESSIONAL REPORT. STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS AND USE OF REPRODUCTION IN WHOLE OR IN PART WORKING WITHIN CONSULT AS STRICTLY TRESPASSERS CODES OF THE DRAWINGS AND SPECIFICATIONS, SECTIONS 2P PLAT LEGEND MAY BE UPDATED ONLY FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED AND MUST STOP THE CONSTRUCTION OF ANY OTHER PROJECT W.A.S. 60316

ABBREVIATIONS

#	Pound Or Number	H.C.	Hollow Core
#	Number	H.M.	Hollow Metal
&	And	HOWD.	Hardwood
@	At	HDWE	Hardware
A.B.	Anchor Bolt	HGT.	Height
A.C.	Asphalt Concrete	HORIZ.	Horizontal
A.D.	Area Drain	HR.I.D.	Hour
A.F.F.	Above Finish Floor	INSUL.	Inside Diameter
A.F.G.	Above Finish Grade	INT.	Insulation
A.F.S.	Above Floor Slab	JAN.	Interior
A.V.	Audio/Visual	JT.	Janitor
ABV.	Above	K.O.	Joint
ACOUS.	Acoustical	KIT	Knock Out
ACT.	Acoustical Ceiling Tile	L.F.	Kitchen
ADJ.	Adjustable	L.N.R.	Linear Feet
AGGR.	Aggregate	LAB.	Locker
AL.	Aluminum	LAM.	Laboratory
ANOD.	Anodized	LAV.	Laminate
APPROX.	Approximate	LT	Lavatory
ARCH.	Architectural	W.C.	Light
ASPH.	Asphalt	W.G.	Medicine Cabinet
B.C.	Back Of Curb	MAX.	Masonry Opening
B.N.	Bench Mark	MECH.	Maximum
B.U.R.	Built Up Roof	MEMB	Mechanical
BD.	Board	MET.	Membrane
BITUM.	Bituminous	MFR	Metal
BLDG.	Building	MH.	Manufacturer
BLK.	Block	MIN.	Manhole
BLKG.	Blocking	MIR.	Minimum
BM.	Beam	MISC.	Mirror
B.O.	Bottom Of	MTD.	Miscellaneous
BRG.	Bearing	MUL.	Mounted
BTW.	Between	N.	Mullion
C.B.	Catch Basin	N.I.C.	North
C.F.C.I.	Contractor Furnished / Contractor Installed	N.T.S.	Not In Contract
C.F.O.I.	Contractor Furnished / Owner Installed	NO.	Not To Scale
C.G.	Corner Guard	NOM.	Number
C.I.	Cast Iron	O.C.	Nominal
C.J.	Construction Joint	O.D.	On Center
C.M.U.	Concrete Masonry Unit	O.F.C.I.	Outside Diameter (Dim)
C.O.	Clean Out	O.F.O.I.	Owner Furnished / Contractor Installed
C.R.	Cold Rolled	OA.	Owner Furnished / Owner Furnished
C.T.	Ceramic Tile	OBS.	Overall
CAB.	Cabinet	OFF.	Obscure
CEM.	Cement	OPNG.	Office
CEM. PLAST.	Cement Plaster	OPP.	Opening
CER.	Ceramic	P.B.	Opposite
CL.	Center Line	PEG.	Peg Board
CLG.	Ceiling	P.T.D.	Property Line
CLKG.	Caulking	P.T.D/R	Paper Towel Dispenser
CLR.	Clear	P.T.R.	P.T.D. And Receptacle
CNTR.	Counter	PL.	Paper Towel Receptacle
COL.	Column	PLAM.	Plate
CONC.	Concrete	PLUM.	Plastic Laminate
CONN.	Connection	PLY. WD.	Plumbing
CONSTR.	Construction	PR.	Plywood
CONT.	Continuous	PRECST.	Pair
CORR.	Corridor	PT.	Pre-Cast
CPT.	Carpet	PTN	Paint
CTR.	Counter	Q.T.	Partition
CTSK.	Countersink	R.	Quarry Tile
D.F.	Drinking Fountain	R.D.	Riser
D.O.	Door Opening	R.O.	Roof Drain
D.S.P.	Dry Standpipe	R.W.L.	Rough Opening
D.W.R.	Drawer	RAD.	Rain Water Leader
DBL.	Double	REF.	Radius
DEMO.	Demolition	REFR.	Reference
DEPT.	Department	REINF.	Refrigerator
DET	Detail	REQ.	Reinforced
DIA	Diameter	RESIL.	Required
DIM	Dimension	RW.	Resilient
DISP	Dispenser	RSTR.	Room
DN	Down	RWD.	Register
DR.	Door	S SK.	Redwood
DS.	Downspout	S.	Service Sink
DWG.	Drawing	S.C.	South
E	East	S.C.E.	Solid Core
E.J.	Expansion Joint	S.N.	Seat Cover Dispenser
EL.	Elevation	S.N.D.	Shelf
E.P.	Electric Panelboard	SCHED.	Sanitary Napkin Dispenser
E.P.D.M.	Single Ply Roof Membrane	SD.	Schedule
E.W.	Each Way	SECT.	Soap Dispenser
E.W.C.	Electric Water Cooler	SHR.	Section
EA	Each	SHT.	Shower
ELEC.	Electrical	SIM.	Sheet
EMER	Emergency	SPEC.	Similar
ENCL.	Enclosure	SQ.	Specification
EQ.	Equal	SST.	Square
EQUIP.	Equipment	STA.	Stainless Steel
EXIST	Existing	STD.	Station
EXP.	Expansion	STL.	Standard
EXPO	Exposed	STOR.	Steel
EXT.	Exterior	STRL.	Storage
F.A.	Fire Alarm	SUSP.	Structural
F.D.	Flat Bar	SYM.	Suspended
F.D.	Floor Drain	T & G	Symmetrical
F.E.	Fire Extinguisher	T.B.	Tongue And Groove
F.E.C.	Fire Extinguisher Cabinet	T.E.R.	Towel Bar
F.H.	Fire Hydrant	T.O.	Telephone Equipment Room
F.H.C.	Fire Hose Cabinet	T.O.C.	Top Of
F.O.C.	Face Of Concrete	T.O.P.	Top Of Curb
F.O.F	Face Of Finish	T.O.W	Top Of Pavement
F.O.M.	Face Of Masonry	T.V.	Top Of Wall
F.O.S.	Face Of Stude	TEL.	Television
F.R.P.	Fiberglass Reinforced Panel	THK.	Telephone
F.S.	Floor Sink	TRD.	Thick
FDN.	Foundation	TYP.	Tread
FIN.	Finish	U.N.O.	Typical
FLASH.	Flashing	UNFIN.	Unless Noted Otherwise
FLR.	Floor	UR.	Unfinished
FLUOR.	Fluorescent	V.B.	Urinal
FPRF	Fireproof	V.C.G.	Vapor Barrier
FT.	Foot Or Feet	V.T.	Vinyl Corner Guard
FTG	Footing	VAR.	Vinyl Tile
FURR.	Furring	VERT.	Varies
FUT.	Future	VEST.	Vertical
G.B.	Grab Bar	W.	Vestibule
GA.	Gauge	W.C.	West
GALV.	Galvanized	W/	Water Closet
GL.	Glass	W/O	With
GL. BLK.	Glass Block	WD.	Without
GND.	Ground	WP.	Wood
GR.	Grade	WSCT.	Waterproof
GYP.	Gypsum	WT.	Wainscot
H.B.	Hose Bibb		Weight

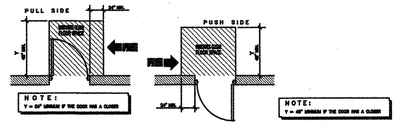
DOORS AND WINDOWS NOTES

1. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OF ANY SPECIAL KNOWLEDGE OR EFFORT. KEY LOCKING HARDWARE MAY BE USED ON THE MAIN ENTRANCE IF THERE IS A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT THE DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED".
2. DOOR OPERATING DEVICES SHALL BE LEVER OPERATED, PUSH TYPE OR U-SHAPED HANDLES.
3. THE BOTTOM 10" OF ALL DOORS SHALL BE PROVIDED WITH A SMOOTH SURFACE TO ALLOW THE DOOR TO BE OPENED WITH A WHEELCHAIR FOOTREST.
4. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 IN. WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.

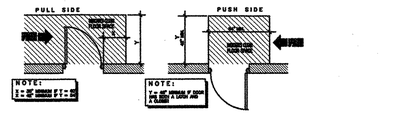


SWING DOOR

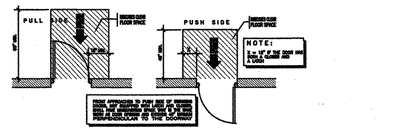
5. MANEUVERING CLEARANCES AT DOORS. MINIMUM MANEUVERING CLEARANCES AT DOORS THAT ARE NOT AUTOMATIC OR POWER ASSISTED SHALL BE AS SHOWN. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR.



LATCH - SIDE APPROACHES - SWINGING DOOR



HINGE - SIDE APPROACHES - SWINGING DOOR



FRONT APPROACHES - SWINGING DOOR

6. THRESHOLDS AT DOORWAYS. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2 IN. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
7. DOOR CLOSERS. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 IN. FROM THE LATCH, MEASURES TO THE LEADING EDGE OF THE DOOR.
8. DOOR OPENING FORCE. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:

   (1) FIRED DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.

   (2) OTHER DOORS.
   - (a) INTERIOR HINGED DOORS: 5 LBF
   - (b) SLIDING OR FOLDING DOORS: 5 LBF

   THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION
9. AUTOMATIC DOORS AND POWER ASSISTED DOORS. DOORS SHALL NOT OPEN TO BACK CHECK FASTER THAN 3 SECONDS AND SHALL REQUIRE NO MORE THAN 15 LBF TO STOP DOOR MOVEMENT.

STAIRS, HANDRAILS AND GRAB BAR NOTES

1. PROVIDE HANDRAILS AND RAILING SYSTEMS CAPABLE OF WITHSTANDING THE FOLLOWING STRUCTURAL LOADS (PER ASTM E 985):
   a. APPLIED AT ANY POINT AND A UNIFORM LOAD OF 100 LBF PER LINEAR FT.
   b. HANDRAILS: CONCENTRATED LOAD OF 200 LBF APPLIED AT ANY POINT AND A UNIFORM LOAD OF 50 LBF PER LINEAR FT.
   c. INFILL AREA OF GUARDRAILS SYSTEMS: HORIZONTAL CONCENTRATED LOAD OF 200 LBF APPLIED TO ONE SQ. FT. AT ANY POINT IN THE SYSTEM
2. TREADS AND RISERS. ON ANY GIVEN FLIGHT OF STAIRS, ALL STEPS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD WIDTHS.
3. SIZE AND SPACING OF GRAB BARS AND HANDRAILS. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1-1/4 IN. TO 1-1/2 IN., THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 IN.
4. STRUCTURAL STRENGTH. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATION:

   (1) BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.

   (2) SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT. IF THE CONNECTION BETWEEN THE GRAB BAR OR SEAT AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.

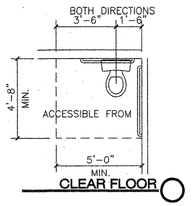
   (3) SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.

   (4) TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.

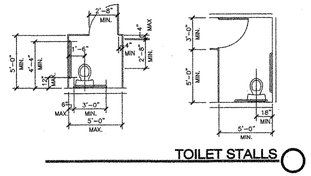
   (5) GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

WATER CLOSET NOTES

1. CLEAR FLOOR SPACE. CLEAR FLOOR SPACE FOR WATER CLOSETS NOT IN STALLS.
2. CLEAR FLOOR SPACE. CLEAR FLOOR SPACE FOR WATER CLOSETS IN STALLS.



CLEAR FLOOR

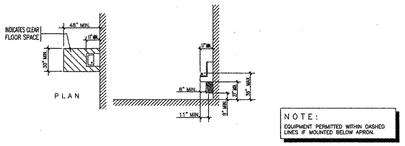


TOILET STALLS

3. HEIGHT. THE HEIGHT OF WATER CLOSETS SHALL BE 17 IN. TO 19 IN. MEASURED TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
4. FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 44 IN. ABOVE THE FLOOR.

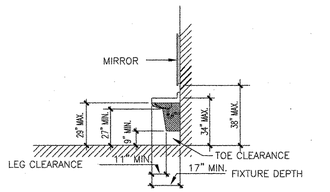
DRINKING FOUNTAINS

1. SPOUT HEIGHT. SPOUTS SHALL BE NO HIGHER THAN 36 IN., MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.
2. SPOUT LOCATION. THE SPOUTS OF DRINKING FOUNTAINS AND WATER COOLERS SHALL BE AT THE FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4 IN. HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER. ON AN ACCESSIBLE DRINKING FOUNTAIN WITH A ROUND OR OVAL BOWL, THE SPOUT MUST BE POSITIONED SO THE FLOW OF WATER IS WITHIN 3 IN. OF THE FRONT EDGE OF THE FOUNTAIN.
3. CLEARANCES. (1) WALL-AND POST-MOUNTED CANTILEVERED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FLOOR OR GROUND AT LEAST 27 IN. HIGH, 30 IN. WIDE, AND 17 IN. TO 19 IN. DEEP. SUCH UNITS SHALL ALSO HAVE A MINIMUM CLEAR FLOOR SPACE 30 IN. BY 48 IN. TO ALLOW A PERSON IN A WHEELCHAIR TO APPROACH THE UNIT FACING FORWARD.

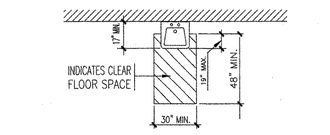


LAVATORY AND MIRRORS

1. HEIGHT. SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN 34 IN. ABOVE THE FINISH FLOOR.
2. KNEE CLEARANCE. KNEE CLEARANCE THAT IS AT LEAST 27 IN. HIGH, 30 IN. WIDE, AND 19 IN. DEEP SHALL PROVIDED UNDERNEATH SINKS.
3. DEPTH. EACH SINK SHALL BE A MAXIMUM OF 6-1/2 IN. DEEP.
4. CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE AT LEAST 30 IN BY 48 IN. SHALL BE PROVIDED IN FRONT OF A SINK TO ALLOW FORWARD APPROACH. THE CLEAR FLOOR SPACE SHALL EXTEND A MAXIMUM OF 19 IN. UNDERNEATH THE SINK.
5. EXPOSED PIPES AND SURFACES. HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED SO AS TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.
6. FAUCETS. LEVER-OPERATED, PUSH-TYPE,TOUCH TYPE, OR ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE DESIGNS.



LAVATORY CLEARANCES



CLEAR FLOOR SPACE AT LAVATORIES

GENERAL REQUIREMENTS

1. THE GENERAL CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES IN THE DIMENSIONS OR DRAWINGS PRIOR TO CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES IN THE DIMENSIONS OR DRAWINGS PRIOR TO CONSTRUCTION.
3. FEDERAL LAW REQUIRES THAT THE CONSTRUCTION MEET ALL REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT GUIDELINES.
4. ALL PLAN DIMENSIONS ARE TO FACE OF STUDS, FACE OF CMU WALL OR CENTER LINE OF GRIDS UNLESS NOTED OTHERWISE.

SYMBOL LEGEND

- DATUM POINT
- 100 — DOOR NUMBER
- 100 — WINDOW NUMBER
- 100 — ROOM NUMBER
- 1 — ACCESSORY TAG
- XXX — EQUIPMENT TAG
- 1 — KEY NOTE
- P1 / A4.1 — TILTUP TAG
- NORTH ARROW
- 12 / 5 — PITCH
- A / 9'-0" / (ACT-1) — CEILING TAG
- CPT. / CPT. — FLOORING TAG
- T.O. FIN. FLR. ELEV. 100'-0" — ELEVATION TAG
- T.O. FIN. FLR. ELEV. 100'-0" — ELEVATION TAG
- T.O. FIN. FLR. ELEV. 100'-0" — EXIST. ELEVATION TAG
- 1 / SHEET # / 2 / 3 — INTERIOR ELEVATION TAG
- 0 / A-000 — ELEVATION TAG
- DETAIL # / SHEET # — DETAIL BUBBLE
- DETAIL # / SHEET # — DETAIL BUBBLE
- DETAIL # / SHEET # — DETAIL BUBBLE
- SECTION # / SHEET # — BUILDING SECTION TAG
- SECTION # / SHEET # — WALL SECTION TAG
- 1 — REVISION CLOUD AND DELTA TAG
- FEC — FIRE EXTINGUISHER CABINET
- SMOKE DETECTOR
- 0 — GRID BUBBLE AND LINE
- 0 — EXIST. GRID BUBBLE AND LINE
- MATCH BUBBLE AND LINE

MATERIAL LEGEND

- CONCRETE
- SAND
- EARTH
- GRAVEL TYPE - I
- GRAVEL TYPE - II
- MASONRY
- STONE
- WOOD
- ALUMINUM
- STEEL
- RIGID INSULATION
- BATT INSULATION
- PLYWOOD
- WOOD MEMBER
- WOOD BLOCKING

AS BUILT

CITY OF LAS VEGAS NEVADA

REVISIONS

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
GENERAL NOTES
& ABBREVIATIONS

STAMP

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
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DRAWN	CJT
FILE	
DATE	02/08/2016
SCALE	
SID NO	15.60316.JH
CLV DWG NO	521-301
MANSEN NO	60316
SHT NO	AG1.00

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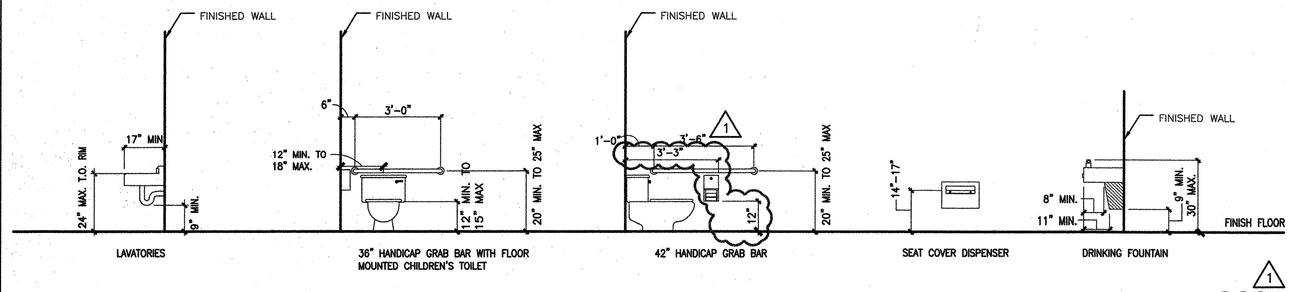
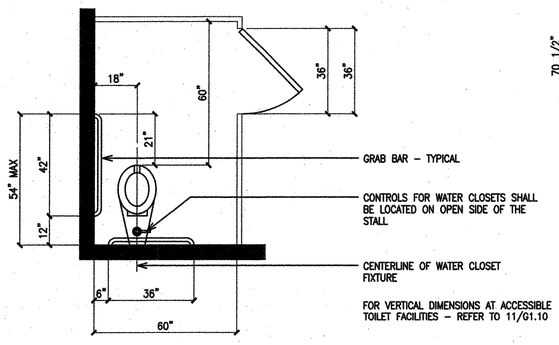
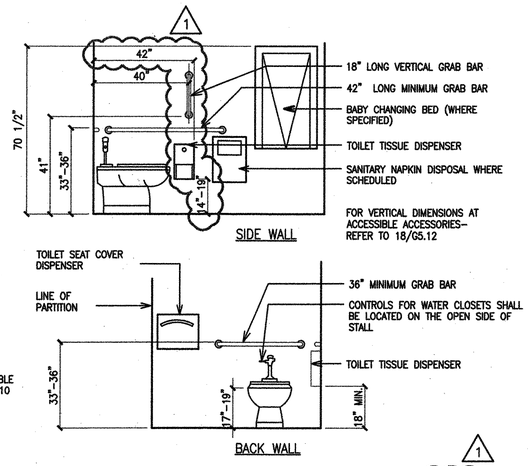


MOUNTING HEIGHTS FOR CHILDREN'S USE, AGES 3 TO 8

3/8" = 1'-0"



DOOR OPENING AT SIDE OF STALL

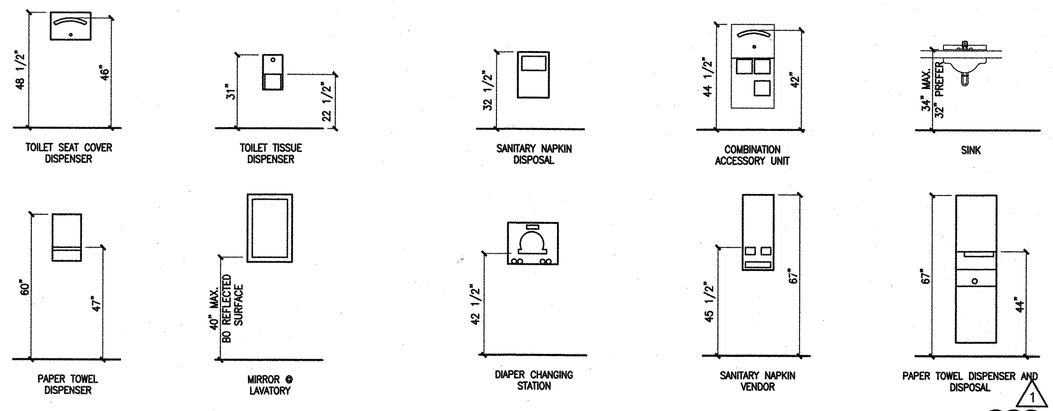


H.C. TOILET STALL CLEARANCES

3/8" = 1'-0"

1. VERIFY ALL ACCESSORY SIZE AND MOUNTING WITH MANUFACTURERS APPROVED CUT SHEETS
2. TRAPS AND HOT WATER PIPES AT LAVS OR SINKS SET IN OPEN COUNTERS TO BE INSULATED

NOT ALL FIXTURES OR ACCESSORIES SHOWN ARE APPLICABLE TO THIS PROJECT – REFER TO PLANS AND INT ELEVATIONS FOR SPECIFIC ITEMS, LOCATIONS AND SPECIAL CONDITIONS

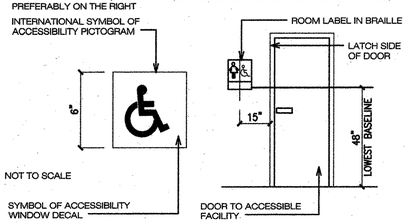


ACCESSIBLE FIXTURE AND ACCESSORY MOUNTING SCHEDULE

3/8" = 1'-0"

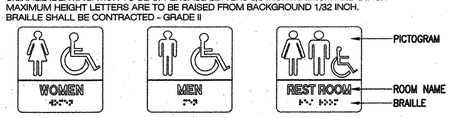
INTERNATIONAL SYMBOL OF ACCESSIBILITY

NOTE: WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT THE DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT



WALL MOUNTED SIGNAGE AT RESTROOMS

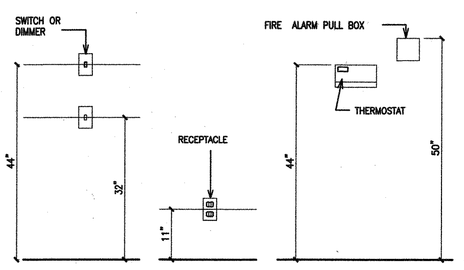
SIGNAGE IDENTIFICATION TO BE UPPERCASE LETTERS 5/8 INCH MINIMUM AND 2 INCH MAXIMUM HEIGHT LETTERS ARE TO BE RAISED FROM BACKGROUND 1/32 INCH. BRAILLE SHALL BE CONTRACTED - GRADE II



ACCESSIBILTY SIGNS AT DOORS

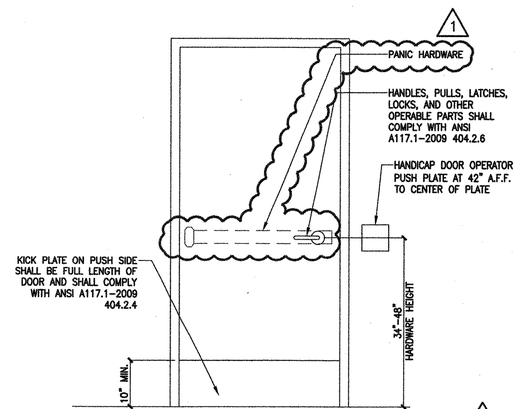
NTS

CENTER OF ELECTRICAL AND COMMUNICATION RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15" ABOVE FLOOR OR WORKING PLATFORM – EXCEPTION: REQUIREMENTS DO NOT APPLY WHERE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL AND COMMUNICATIONS SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.



RECEPTACLES AND SWITCHES

3/4" = 1'-0"

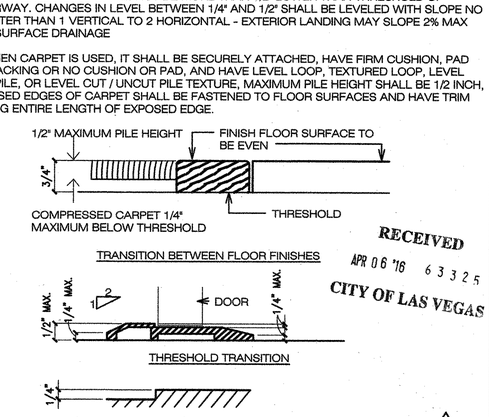


HARDWARE MOUNTING HT.

1/4" = 1'-0"

1.FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THRESHOLD OF DOORWAY. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE LEVELED WITH SLOPE NO GREATER THAN 1 VERTICAL TO 2 HORIZONTAL - EXTERIOR LANDING MAY SLOPE 2% MAX FOR SURFACE DRAINAGE

2. WHEN CARPET IS USED, IT SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD, AND HAVE LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT / UNCUT PILE TEXTURE, MAXIMUM PILE HEIGHT SHALL BE 1/2 INCH, EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG ENTIRE LENGTH OF EXPOSED EDGE.



LEVEL CHANGES AT THRESHOLD

1/4" = 1'-0"

RECEIVED
APR 06 '16 63325
CITY OF LAS VEGAS

AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4845
TDD: (702) 386-9108

REVISIONS
3/14/16 PLAN COMMENTS

ARCHITECT
SH ARCHITECTURE
7250 Peak Drive Suite 216 Las Vegas Nevada 89128
office 702.363.2222 www.shrarchitecture.com

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
ACCESSIBILITY CLEARANCE
STANDARDS

STAMP
JOANNA A. SAWYER
REGISTERED ARCHITECT
STATE OF NEVADA
No. 9083
03/14/16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4845
TDD: (702) 386-9108

DRAWN	CJT
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHEET NO	AG1.20

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CODE ANALYSIS

1) CODE YEAR / TYPE

2012 IFC WITH MODIFYING ORDINANCE 6325
2012 ADMINISTATIVE CODE ORDINANCE 6349
2012 IBC WITH ORDINANCE 6350
2012 UMC WITH ORDINANCE 6354
2012 UPC WITH ORDINANCE 6355
2011 NEC WITH ORDINANCE 6356
2009 IECC WITH ORDINANCE 6144
2009 ICC/ANSI A117.1-2009

THESE PLANS HAVE NOT BEEN REVIEWED FOR COMPLIANCE TO FEDERALLY MANDATED PROVISIONS FOR PERSONS WITH DISABILITIES.

THESE PLANS HAVE NOT BEEN REVIEWED FOR COMPLIANCE TO NV STATE MANDATED PROVISIONS FOR PERSONS WITH DISABILITIES.

PROVIDE ACCESSIBILITY FOR PERSONS WITH PHYSICAL DISABILITIES

2) OCCUPANCY CLASSIFICATION

GROUP	DESCRIPTION
E	DAYCARE CLASSROOMS
B	OFFICE
F-1 (ACCESSORY USE)	WARMING KITCHEN, MECH ROOM
S-2 (ACCESSORY USE)	STORAGE

3) TYPE OF CONSTRUCTION:

TYPE V-B

4) FIRE SPRINKLERS

YES, NFPA-13

5) FIRE ALARM

YES, NFPA 72 STANDARD FOR FIRE ALARM AND SIGNALING CODE SYSTEM WITH A MANUAL FIRE ALARM SYSTEM THAT INITIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM.

REVIEWED

BY B Kelly 5-25-16

LAS VEGAS FIRE DEPARTMENT

6) HEIGHT

OCC. GROUP	ALLOWED HT.	ACTUAL HT.
E	40'	24-0'

7) STORIES

OCC. GROUP	ALLOWED STORIES	ACTUAL STORIES
E	2	1 WITH MEZZANINE

8) AREA:

OCCUPANCY CLASSIFICATION 303.1 FOR NEW AREA – E – DAYCARE WITH ASSOCIATED USES: PLAY ROOM, KITCHEN F1 ACCESSORY OCCUPANCY PER 508.2.1
SECTION 508.3 NON-SEPERATED USES

SECTION 308.6.1 2012 IBC UP TO 100 OR LESS CHILDREN 2-½ YEARS OR LESS WITH DOOR TO EXTERIOR CAN BE CLASSIFIED AS "E" OCCUPANCY.

ALLOWABLE BUILDING AREA: NON SEPERATED.
MAIN OCCUPANCY FOR ALLOWABLE AREA SHALL BE TYPE V-B. MOST RESTRICTIVE OCCUPANCY B TABULAR VALUE 9,000 SF.

If = [F/P-0.25]W/30		
If = [343/571-0.25]30/30		
If = [0.60-0.25]1		
If = [0.35]1		
If = 0.35		
Aa = {Aa + [At x If] = At x Is}		
BASIC ALLOWABLE AREA PER FLOOR (At)		9,000 SF
SPRINKLER INCREASE (Is) (506.3)	300%	3
FRONTAGE INCREASE (If)	0%	0.35
Aa = {9,500 + [9,000 x 0.35] + [9,000 x 3]}		
Aa = 9,000 + 3,325 + 27,000		
TOTAL ADJUSTABLE ALLOWABLE AREA (Aa)		39,325 SF
ACTUAL BLDG AREA (FIRST FLOOR)		9,895 SF
ACTUAL BLDG AREA (MEZZANINE)		1,078 SF
TOTAL ACTUAL BLDG AREA		10,973 SF

9 & 10) OCCUPANT LOAD & NUMBER OF EXITS

AREA	OCC.	FUNCTION	AREA (SF)	FACTOR (TABLE 1004.1.2)	OCC. LOAD	EXITS REQ'D	EXITS PROV'D
100	E	DAYCARE CLASSROOM	901	1:35	26	1	13
101	E	DAYCARE CLASSROOM	901	1:35	26	1	13
102	E	DAYCARE CLASSROOM	722	1:35	21	1	13
103	E	DAYCARE CLASSROOM	722	1:35	21	1	13
104	E	DAYCARE CLASSROOM	710	1:35	21	1	13
105	F-1	KITCHEN	194	1:200	1	1	13
106	F-1	MECH ROOM	67	1:200	1	1	13
107	B	OFFICES	405	1:100	5	1	13
111	B	OFFICES	106	1:100	1	1	13
112	B	OFFICES	81	1:100	1	1	13
113	B	OFFICES	130	1:100	2	1	13
114	E	DAYCARE CLASSROOM	736	1:35	21	1	13
115	E	DAYCARE CLASSROOM	711	1:35	21	1	13
116	E	DAYCARE CLASSROOM	716	1:35	21	1	13
117	E	DAYCARE CLASSROOM	727	1:35	21	1	13
122	S	STORAGE	±15	1:300	1	1	13

9 & 10) OCCUPANT LOAD & NUMBER OF EXITS (CONT.)

AREA	OCC.	FUNCTION	AREA (SF)	FACTOR (TABLE 1004.1.2)	OCC. LOAD	EXITS REQ'D	EXITS PROV'D
201	B	OFFICES	202	1:100	3	1	13
203	B	OFFICES	247	1:100	3	1	13
204	B	OFFICES	227	1:100	3	1	13
TOTAL OCCUPANT LOAD					220		

11) FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

STRUCTURAL FRAME	NONE
BEARING WALLS – EXTERIOR	NONE
BEARING WALLS – INTERIOR	NONE
NON-BEARING WALLS	NONE
FLOOR CONSTRUCTION	NONE
ROOF CONSTRUCTION	NONE
SHAFTS	NONE

ENERGY CODE COMPLIANCE EXEMPTION NOTIFICATION

Pursuant to Ordinance No. 6256 adopted by the Las Vegas City Council on June 19, 2013, commercial buildings that receive final inspection approval on or before December 31, 2008 are exempt from compliance with the 2009 International Energy Conservation Code (IECC). Accordingly, these plans have not been reviewed, and the building will not be inspected, for compliance with the 2009 IECC

12) REQ'D FIRE RESISTANCE OF EXTERIOR WALLS DUE TO LOCATION ON PROPERTY

WEST WALL – 1 HOUR WALL – FIRE SEPARATION DISTANCE MORE THAN 3 FEET, LESS THAN 5 FEET

13) PROTECTION OF OPENINGS DUE TO LOCATION ON PROPERTY AND MAXIMUM AREA OF EXT WALL OPENINGS

MAXIMUM AREA OF EXTERIOR WALL OPENINGS PER TABLE 705.8

WALL	FIRE SEPARATION DISTANCE	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
WEST WALL	3 TO LESS THAN 5 FEET	UNPROTECTED/SPRINKLERED	15%

AREA OF WALL = 15' X 80' = 1200 SF, 15/1,200 = 180 SF
MAXIMUM AREA OF EXTERIOR WALL OPENINGS = 93 SF
ACTUAL AREA = 93/1,200 SF = 7.75% (LESS THAN 15 %)

14) SPACES REQUIRING FIRE-RESISTANCE RATED SEPARATION

FIRE RISER ROOM – 1 HOUR WALL SEPARATION
EXISTING 1 HOUR RATED CEILING UNDER STAIRS FOR EXISTING STORAGE ROOM

15) NON-SEPARATED OR SEPARATED OCCUPANCIES

NON SEPARATED MIXED USE OCCUPANCIES, GROUP E TO GROUP B
F-1 (ACCESSORY USE) 261 SF/8,520 SF = 3%, LESS THAN 10%
S-2 (ACCESSORY USE) 15 SF/8,520 SF = .01%, LESS THAN 10%

16) ROOF COVERING MATERIAL CLASS

TYPE OF CONSTRUCTION	ALLOWED	ACTUAL
V-B	C	C

17) REQUIRED PLUMBING FIXTURES

OCCUPANCY	OCCUPANT LOAD	WATER CLOSETS MALE	WATER CLOSETS FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	DRINKING FOUNTAINS	SERVICE SINKS
(E) DAYCARE	199	1/30	1/50	1/50		1/100	1
99 50 MALE 99 50 FEMALE		X2	X2	X2	X2	1	1
(B) BUSINESS ACCESSORY USES (F-1) AND (S-2)	21	1/25	1/25	1/50		1/100	1
	11 MALE 11 FEMALE	1	1	1	1	1	1
TOTAL REQUIRED		X3	X3	X3	X3	3	1
TOTAL PROVIDED		19	19	21	21	4	1

PROVIDE PER RED-LINES
ATTACHED SIGNED REVISIONS

18) SPECIAL INSPECTION(S) REQUIRED

SEE SHEET S0.1 – GENERAL STRUCTURAL NOTES

19) I.E.C.C. COMPLIANCE REPORTS

SCOPE OF WORK IS ONLY INTERIOR, THEREFORE IECC ENVELOPE CACULATIONS WERE NOT PERFORMED.

RECEIVED
MAY 16 2016
CITY OF LAS VEGAS
PERMITS

AS BUILT

CITY OF LAS VEGAS NEVADA

REVISIONS
1 3/14/16 PLAN COMMENTS
2 4/12/16 PLAN COMMENTS
3 5/4/16 PLAN COMMENTS
4 5/9/16 PLAN COMMENTS

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office 702.383.2222 www.shaarchitecture.com

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
CODE ANALYSIS

CLV

STAMP
CHRISTOPHER A. SWANSON No. 9089 STATE OF NEVADA REGISTERED ARCHITECT
05/09/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: PLANS APPROVED
FAX: AS NOTED IN RED-LINES
TTD: CONSTRUCTION SHALL
Building & Safety Dept.

DRAWN City of Las Vegas, Nevada
FILE JBK JUN 0 1 2016
DATE Does not include Electrical, Plumbing, Mechanical, Structural or On-Site Improvements. Make No Changes Without Approval, Plans
SCALE Not a Permit to Construct, Any Ordinance.
BID NO 15.60316.JH
CLV DWG NO 521-301
HANSEN NO 60316
SHT NO AG2.10

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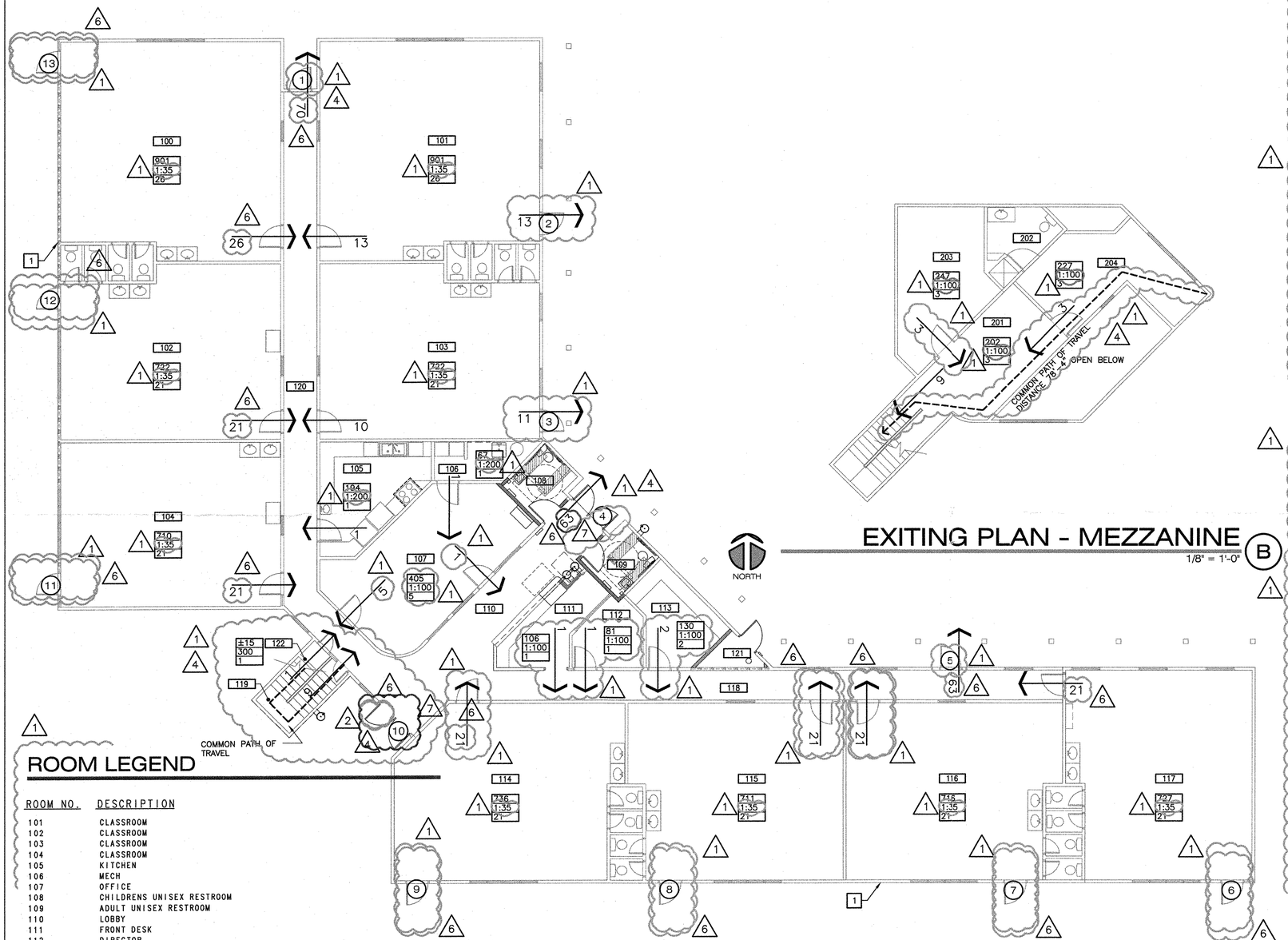
PERMIT SET

PUBLIC WORKS



EXITING PLAN - MEZZANINE

1/8" = 1'-0" (B)

EXITING PLAN - FIRST FLOOR

1/8" = 1'-0" (A)

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	OCCUPANCY ROOM TAG: – SQUARE FOOTAGE OF SPACE – OCCUPANT LOAD FACTOR – NUMBER OF OCCUPANTS (N/C = NON–CONTRIBUTING LOAD)
# →	NUMBER OF OCCUPANTS EXITING TAG
(#)	EXIT DOOR NUMBER
#	EXIT ROOM NUMBER

EXIT DOOR KEY (#)

EXIT NUMBER	OCCUPANCY SERVED	EGRESS WIDTH FACTOR	WIDTH REQ'D (IN.)	WIDTH PROV. (IN.)	EXIT CAPACITY
1	70 (6)	.2	14 (6)	32	160
2	13	.2	2.6	32	160
3	11	.2	2.2	32	160
4	(7) 63 (6)	.2	(7) 12.6 (6)	72	360
5	63	.2	12.6	32	160
6	0	.2	0	32	160
7	0	.2	0	32	160
8	0	.2	0	32	160
9	0	.2	0	32	160
10	(3) 0 (7)	.2	0 (7)	72	360
11	0	.2	0	32	160
12	0	.2	0	32	160
13	0	.2	0	32	160
TOTAL	220 (4)				(2)

EXIT STAIR KEY

EXIT NUMBER	OCCUPANCY SERVED	EGRESS WIDTH FACTOR	WIDTH REQ'D (IN.)	WIDTH PROV. (IN.)	EXIT CAPACITY
1	9	.3	2.7	38	127

DESIGN OCCUPANT LOAD

ROOM	FUNCTION OF SPACE	GROUP	USF	OLF	OL
100	DAYCARE CLASSROOM	E	901	1:35	26
101	DAYCARE CLASSROOM	E	901	1:35	26
102	DAYCARE CLASSROOM	E	722	1:35	21
103	DAYCARE CLASSROOM	E	722	1:35	21
104	DAYCARE CLASSROOM	E	710	1:35	21
105	KITCHEN	F-1	194	1:200	1
106	MECH ROOM	F-1	67	1:200	1
107	OFFICE	B	405	1:100	5
111	OFFICE	B	106	1:100	1
112	OFFICE	B	81	1:100	1
113	OFFICE	B	130	1:100	2
114	DAYCARE CLASSROOM	E	736	1:35	21
115	DAYCARE CLASSROOM	E	711	1:35	21
116	DAYCARE CLASSROOM	E	716	1:35	21
117	DAYCARE CLASSROOM	E	727	1:35	21
122	STORAGE	S	±15	1:300	1
201	OPEN OFFICE	B	202	1:100	3
203	OFFICE	B	247	1:100	3
204	OFFICE	B	227	1:100	3
TOTAL OCCUPANT LOAD					220 (2)

KEY NOTES

[1] EXISTING 1 HOUR RATED WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.

APPROVAL IS FOR CLOUDED AREAS (6) (7) ONLY. SEE ORIGINALS FOR OTHER REQUIREMENTS.

AS BUILT

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
EXITING PLAN

REVISIONS
1 11/2/16 OWNER CHANGES
2 11/7/16 OWNER CHANGES

ARCHITECT
SH ARCHITECTURE
2320 Paseo Drive Suite 210 Las Vegas Nevada 89128
office 702.838.2222 www.sharchitecture.com

JOB

STAMP
JOHN A. SAVOIE REGISTERED No. 9058 ARCHITECT STATE OF NEVADA
11/07/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	CJT
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316 JBK
SHT NO	AG3.10

PLANS APPROVED CONSTRUCTION
Building & Safety Dept.
City of Las Vegas, Nevada
By
NOV 10 2016
Does Not Include Electrical, Plumbing, Mechanical, Structural or Off-Site Improvements. Make No Change Without Approval. Plan is Not a Permit To Violate Any Ordinance.

THESE PLANS AND SPECIFICATIONS DEFINED BY THE CLIENT MAY BE UTILIZED ONLY FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT N A C 623.700
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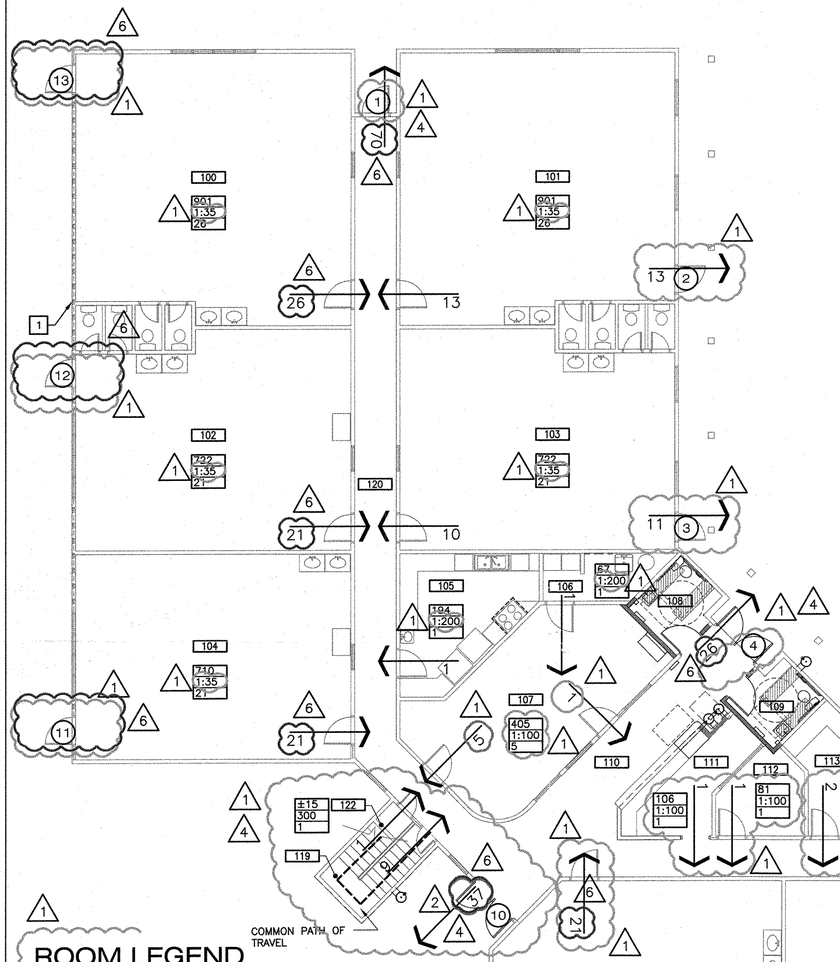
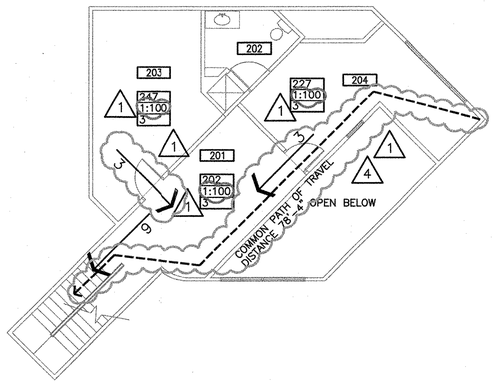


EXITING PLAN - MEZZANINE

1/8" = 1'-0"

NORTH



EXITING PLAN - FIRST FLOOR

1/8" = 1'-0"

NORTH

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
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104	CLASSROOM
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111	FRONT DESK
112	DIRECTOR
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115	CLASSROOM
116	CLASSROOM
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119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
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#	NUMBER OF OCCUPANTS EXITING TAG
(#)	EXIT DOOR NUMBER
#	EXIT ROOM NUMBER

EXIT DOOR KEY (#)

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6	0	.2	0	32	160
7	0	.2	0	32	160
8	0	.2	0	32	160
9	0	.2	0	32	160
10	37	.2	7.4	72	360
11	0	.2	0	32	160
12	0	.2	0	32	160
13	0	.2	0	32	160
TOTAL	220				

EXIT STAIR KEY

EXIT NUMBER	OCCUPANCY SERVED	EGRESS WIDTH FACTOR	WIDTH REQ'D (IN.)	WIDTH PROV. (IN.)	EXIT CAPACITY
1	9	.3	2.7	38	127

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ROOM	FUNCTION OF SPACE	GROUP	USF	OLF	OL
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104	DAYCARE CLASSROOM	E	710	1:35	21
105	KITCHEN	F-1	194	1:200	1
106	MECH ROOM	F-1	67	1:200	1
107	OFFICE	B	405	1:100	5
111	OFFICE	B	106	1:100	1
112	OFFICE	B	81	1:100	1
113	OFFICE	B	130	1:100	2
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117	DAYCARE CLASSROOM	E	727	1:35	21
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TOTAL OCCUPANT LOAD					220

KEY NOTES

[1] EXISTING 1 HOUR RATED WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.

APPROVAL IS FOR CLOUDED AREAS [6] ONLY. SEE ORIGINALS FOR OTHER REQUIREMENTS.

AS BUILT

THESE PLANS WERE CHECKED UNDER [redacted] THE 2011 NEC, AND THE 2012 IBC, UPC, AND UMC

RECEIVED
16329268
63325-C16
CITY OF LAS VEGAS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
[6] 11/2/16 OWNER CHANGES

ARCHITECT
SH ARCHITECTURE
7250 Peak Drive Suite 216 Las Vegas Nevada 89128
office 702.255.2722 www.shearchitecture.com

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
EXITING PLAN

STAMP
JOHN A. SAWYER
No. 4058
ARCHITECT
STATE OF NEVADA

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN CJT
FILE
DATE 02/08/2016
SCALE
BID NO 15.60316.JK
CLV DWG NO 521-301
HANSEN NO 60316
SHT NO AG3.10

PLANS APPROVED FOR CONSTRUCTION
Building - Safety Dept.
City of Las Vegas, Nevada
JBK NOV 1 0 2016
Does Not Include Electrical, Plumbing, Mechanical Structural or Off-Site Improvements. Made No Change Without Approval. Plan is Not a Permit In Conflict Any Ordinance.

JOB

ALL DRAWINGS AND SPECIFICATIONS RETURNED BY THE CLIENT MAY BE UTILIZED ONLY FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT. N.A.C. 623.700
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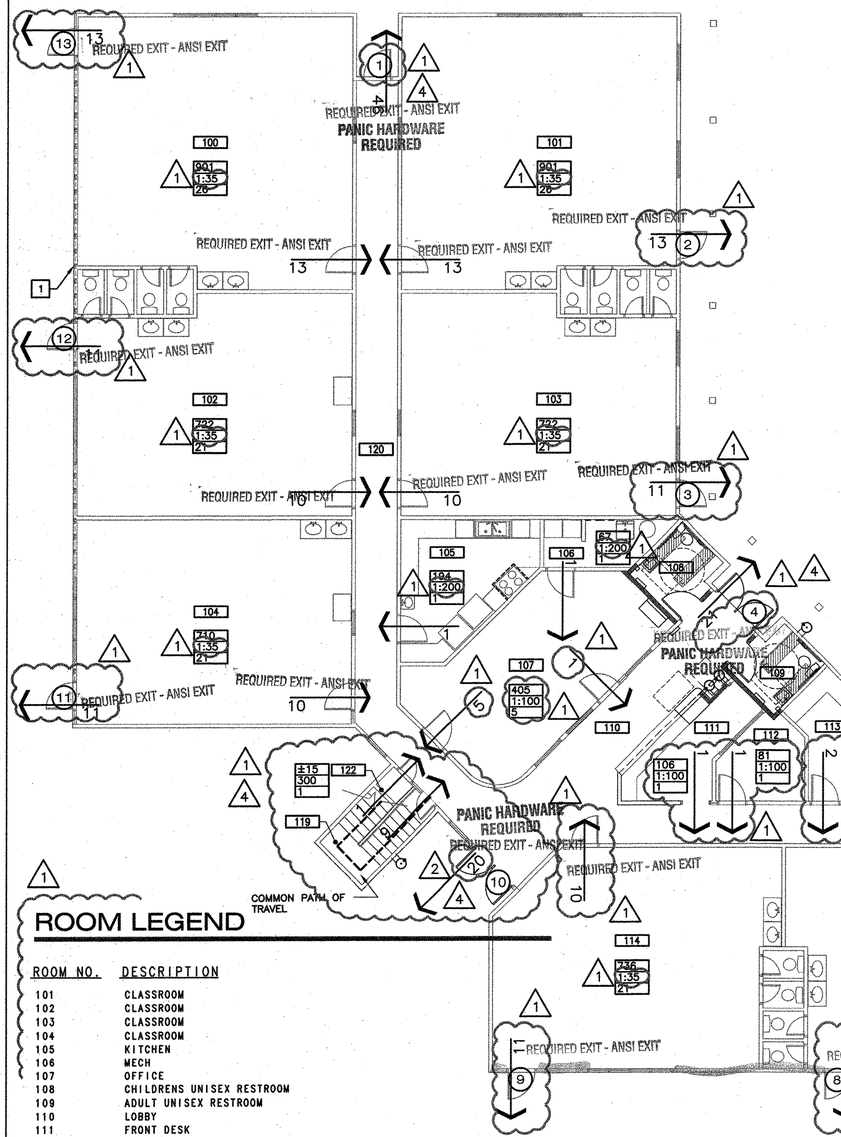
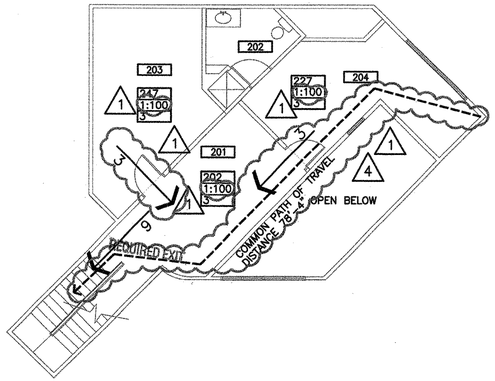


EXITING PLAN - MEZZANINE

1/8" = 1'-0" B



EXITING PLAN - FIRST FLOOR

1/8" = 1'-0" A

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	OCCUPANCY ROOM TAG: – SQUARE FOOTAGE OF SPACE – OCCUPANT LOAD FACTOR – NUMBER OF OCCUPANTS (N/C = NON–CONTRIBUTING LOAD)
#	NUMBER OF OCCUPANTS EXITING TAG
(#)	EXIT DOOR NUMBER
#	EXIT ROOM NUMBER

EXIT DOOR KEY (#)

EXIT NUMBER	OCCUPANCY SERVED	EGRESS WIDTH FACTOR	WIDTH REQ'D (IN.)	WIDTH PROV. (IN.)	EXIT CAPACITY
1	46	.2	5.2	32	160
2	13	.2	2.6	32	160
3	11	.2	2.2	32	160
4	21	.2	4.8	72	360
5	30	.2	6	32	160
6	11	.2	2.2	32	160
7	11	.2	2.2	32	160
8	11	.2	2.2	32	160
9	11	.2	2.2	32	160
10	20	.2	2.2	72	360
11	11	.2	2.2	32	160
12	11	.2	2.2	32	160
13	13	.2	2.2	32	160
TOTAL	220				

EXIT STAIR KEY

EXIT NUMBER	OCCUPANCY SERVED	EGRESS WIDTH FACTOR	WIDTH REQ'D (IN.)	WIDTH PROV. (IN.)	EXIT CAPACITY
1	9	.3	2.7	38	127

DESIGN OCCUPANT LOAD

ROOM	FUNCTION OF SPACE	GROUP	USF	OLF	OL
100	DAYCARE CLASSROOM	E	901	1:35	26
101	DAYCARE CLASSROOM	E	901	1:35	26
102	DAYCARE CLASSROOM	E	722	1:35	21
103	DAYCARE CLASSROOM	E	722	1:35	21
104	DAYCARE CLASSROOM	E	710	1:35	21
105	KITCHEN	F-1	194	1:200	1
106	MECH ROOM	F-1	67	1:200	1
107	OFFICE	B	405	1:100	5
111	OFFICE	B	106	1:100	1
112	OFFICE	B	81	1:100	1
113	OFFICE	B	130	1:100	2
114	DAYCARE CLASSROOM	E	736	1:35	21
115	DAYCARE CLASSROOM	E	711	1:35	21
116	DAYCARE CLASSROOM	E	716	1:35	21
117	DAYCARE CLASSROOM	E	727	1:35	21
122	STORAGE	S	±15	1:300	1
201	OPEN OFFICE	B	202	1:100	3
203	OFFICE	B	247	1:100	3
204	OFFICE	B	227	1:100	3
				TOTAL OCCUPANT LOAD	220

KEY NOTES

1 EXISTING 1 HOUR RATED WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.

EXIT SIGNS REQUIRED

PROVIDE EMERGENCY LIGHTING WITH SEPARATE SOURCE OF POWER

EMERGENCY EGRESS LIGHTING REQUIREMENT: ONE FOOT CANDLE AT FLOOR LEVEL THROUGHOUT EXIT WAYS, STATE FIRE MARSHALL REGULATIONS

RECEIVED
MAY 16 2016
CITY OF LAS VEGAS
PERMITS

AS BUILT

PUBLIC WORKS

REVISIONS
1 3/14/16PLAN COMMENTS
2 4/12/16PLAN COMMENTS
3 5/4/16 PLAN COMMENTS
4 5/9/16 PLAN COMMENTS

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
EXITING PLAN

STAMP
JOSHUA A. SWILLEY No. 14388 STATE OF NEVADA REGISTERED ARCHITECT
05/09/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE 702.229.6535
FAX 702.385.2946
TDD 702.393.9108

PLANS APPROVED
CONSTRUCTION
Building & Safety Dept.
City of Las Vegas, Nevada

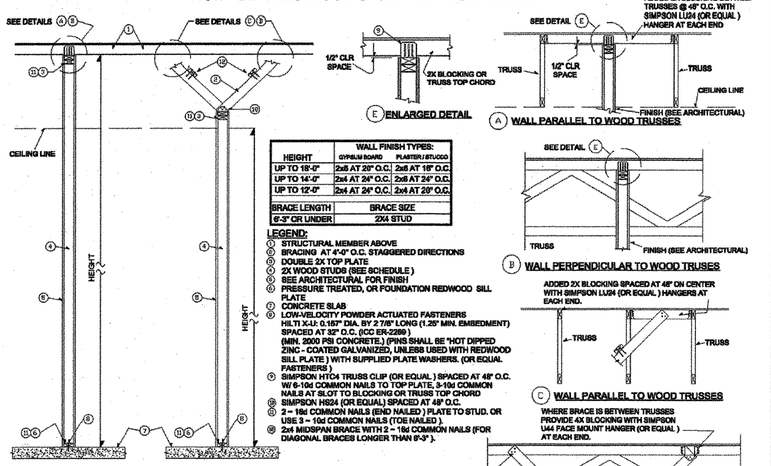
DRAWN BY: CJT
DATE: JUN 01 2016

Does Not Include Electrical, Plumbing, Mechanical, Structural, or Off-Site Improvements. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.

SCALE
JOB NO 15.60316.JH
CLV DWG NO 521–301
HANSEN NO 60316
SHT NO AG3.10

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE COMP OF CONSTRUCTION AFFIXES ON THE DRAWINGS AND SPECIFICATIONS MAY USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS SHALL BE RETURNED BY THE CLIENT MAY BE UTILIZED ONLY FOR COMPLETING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT. N.A.C. 623.360

NON - BEARING WOOD STUD PARTITION DETAIL



HEIGHT	WALL FINISH TYPES: GYPSUM BOARD	PLASTER / STUCCO
UP TO 18'-0"	2x6 AT 20" O.C.	2x6 AT 16" O.C.
UP TO 14'-0"	2x4 AT 24" O.C.	2x6 AT 24" O.C.
UP TO 12'-0"	2x4 AT 24" O.C.	2x4 AT 20" O.C.

BRACE LENGTH	BRACE SIZE
6'-3" OR UNDER	2X4 STUD

LEGEND:
1. STRUCTURAL MEMBER ABOVE
2. BRACING AT 4'-0" O.C. STAGGERED DIRECTIONS
3. DOUBLE 2X TOP PLATE
4. 2X WOOD STUDS (SEE SCHEDULE)
5. SEE ARCHITECTURAL FOR FINISH
6. PRESSURE TREATED, OR FOUNDATION REDWOOD SILL PLATE
7. CONCRETE SLAB
8. LOW-VELOCITY POWDER ACTUATED FASTENERS HILTI X-U: 0.157" DIA. BY 2 7/8" LONG (1.25" MIN. EMBEDMENT) SPACED AT 32" O.C. (ICC ER-2269) (MIN. 2000 PSI CONCRETE.) (PINS SHALL BE "HOT DIPPED ZINC - COATED GALVANIZED, UNLESS USED WITH REDWOOD SILL PLATE) WITH SUPPLIED PLATE WASHERS. (OR EQUAL FASTENERS)
9. SIMPSON HTC4 TRUSS CLIP (OR EQUAL) SPACED AT 48" O.C. W/ 6-10d COMMON NAILS TO TOP PLATE, 5-10d COMMON NAILS AT SLOT TO BLOCKING OR TRUSS TOP CHORD
10. SIMPSON H2S4 (OR EQUAL) SPACED AT 48" O.C.
11. 2 – 16d COMMON NAILS (END NAILED) PLATE TO STUD, OR USE 3 – 10d COMMON NAILS (TOE NAILED).
12. 2x4 MIDSPAN BRACE WITH 2 – 16d COMMON NAILS (FOR DIAGONAL BRACES LONGER THAN 6'-3").

NON - BEARING INTERIOR WALL DETAILS

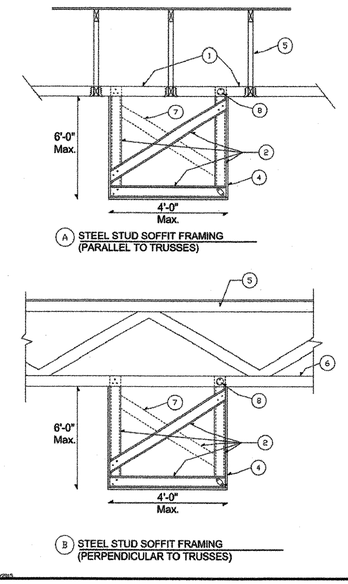
NOTES:
1) STUDS BRACED BY GYPSUM WALLBOARD EACH SIDE. MAXIMUM NAIL SPACING SHALL NOT EXCEED 12" O.C.
2) 5 POUNDS PER SQUARE FOOT MAX. LATERAL LOAD.
3) ALL LUMBER: DOUGLAS FIR-LARCH (STUD GRADE).
4) DEFLECTION (REF: 2012 IBC - TABLE 1604.3): PLASTER / STUCCO FINISH = L/240 GYPSUM BOARD FINISH = L/120
5) FOR H > 18' - 0" AND BRACING > 8' - 3" SUBMIT ENGINEERING DESIGN AND DETAILS.
6) THE DETAILS SHOWN ARE INTENDED TO SERVE AS A GUIDE ONLY. THE DESIGN PROFESSIONAL MAY SUBMIT AN ALTERNATE DESIGN AND DETAILS THAT COMPLY WITH THE 2012 IBC.

BY/CW 4/2015

NON-BEARING WOOD STUD PARTITION DETAIL 1

NTS

METAL STUD SOFFIT FRAMING DETAILS FOR ATTACHMENT TO WOOD TRUSSES



LEGEND:
1. NEW 2X4 DOUGLAS FIR (LARCH) #1 OR #2 AT 24" O.C. WITH SIMPSON LU24 FACE MOUNT HANGERS (OR EQUAL) AT EACH END.
2. 362S137-33 STEEL STUDS AT 24" O.C.
3. 2 – #10 SCREWS AT EACH JOINT, TYPICAL.
4. GYPSUM BOARD FINISH PER ARCHITECTURAL
5. PREMANUFACTURED OPEN WEB WOOD TRUSSES AT 24" O.C.(VERIFY TYPE AND SPACING FROM EXISTING DRAWINGS OR IN THE FIELD)
6. WOOD TRUSS BOTTOM CHORD
7. ALTERNATE DIRECTION OF DIAGONAL BRACES.
8. (3) #10 SCREWS, TYPICAL

NOTES:
1. 5 PSF LATERAL LOAD
2. Fy (min.) = 33 ksi
3. MATERIALS, LOAD AND INSTALLATION SHALL COMPLY WITH THE 2012 IBC.
4. GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN TABLE 2506.2 OF THE 2012 IBC.
5. THESE DETAILS ARE GUIDELINES ONLY. THE DESIGN PROFESSIONAL MAY SUBMIT ALTERNATE DESIGN AND DETAILS THAT COMPLY WITH 2012 IBC.
6. SEE ARCHITECTURAL PLANS FOR PROPOSED SOFFIT DIMENSIONS.
7. DOES NOT APPLY TO SOFFIT FRAMING WITH DIFFERENT CONFIGURATIONS.

SOFFIT FRAMING DETAIL 2

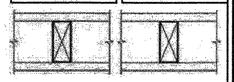
NTS

GA FILE NO. WP 3510	GENERIC	1 HOUR FIRE	35 to 39 STC SOUND

GYPSUM WALLBOARD, WOOD STUDS

One layer ⅝" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 2 x 4 wood studs 24" o.c. with 6d coated nails, 1⅞" long, 0.0915" shank, ⅛" heads, 7" o.c.

Joints staggered 24" on opposite sides. (LOAD-BEARING)



Thickness: 4⅞"
Approx. Weight: 7 psf
Fire Test: UL R3501-47, -48, 9-17-65, UL Design U309; UL R1319-129, 7-22-70, UL Design U314
Sound Test: NGC 2404, 10-14-70

1 HOUR ASSEMBLY 3

NTS

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APR 19 2016
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PERMITS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
1 3/14/16PLAN COMMENTS

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SH ARCHITECTURE
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office 702.363.2222
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ALTA DAYCARE UPGRADES
TYPICAL PARTITION FRAMING AND DETAILS

STAMP
REGISTERED ARCHITECT
JOHN A. SAWDON
No. 4033
STATE OF NEVADA
04/12/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN CT
FILE CONSTRUCTION
DATE 02/08/2016
SCALE JBK

PLANS APPROVED
City of Las Vegas, Nevada
JUN 01 2016
Building & Safety Dept

This Approval Does Not Include Electrical, Plumbing, Mechanical Equipment or Off-Site Improvements. Make No Changes Without Approval. Plan is Subject to Corrections. Not a Permit to Violate Any Ordinance.

HANSEN NO 60316

SHT NO AG4.10

DEPARTMENT OF PUBLIC WORKS

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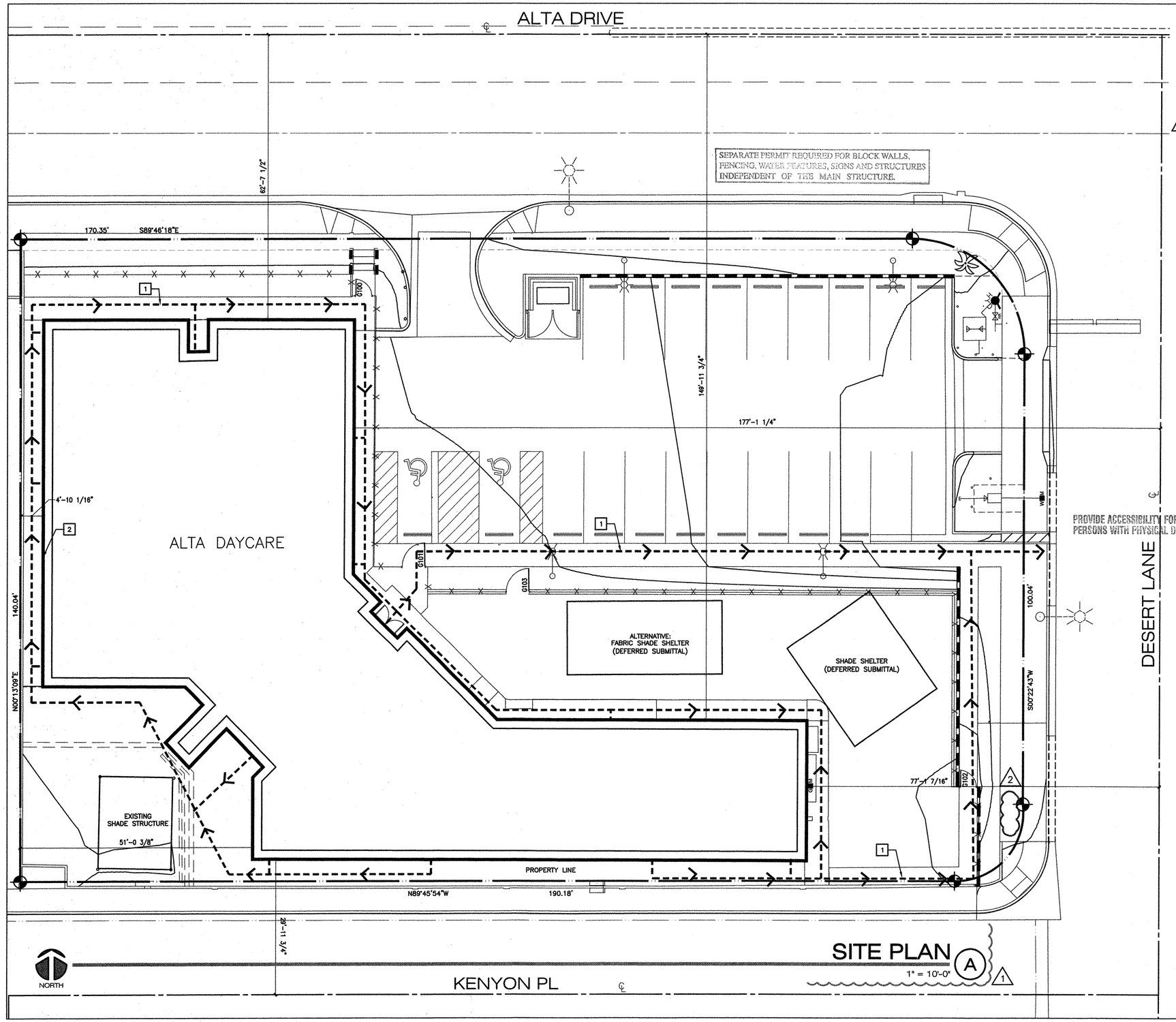
AS BUILT



SHEET NOTES

A. SITE PLAN INCLUDED FOR REFERENCE ONLY. SEE CIVIL DRAWINGS FOR ALL GRADING, PAVING, HORIZONTAL CONTROL AND SITE UTILITY INFORMATION.

B. ALL ACCESSIBLE ROUTES SLOPE MAX 5% IN DIRECTION OF TRAVEL, MAX 2% CROSS SLOPE.

KEY NOTES

1 ACCESSIBLE ROUTE TO PUBLIC WAY

2 EXISTING ONE 1 HOUR RATED WALL

SITE PLAN A
1" = 10'-0"

RECEIVED
MAY 16 2016
CITY OF LAS VEGAS
PERMITS

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
1 3/14/16 PLAN COMMENTS
2 4/12/16PLAN COMMENTS
3 5/9/16 PLAN COMMENTS

ARCHITECT
SH ARCHITECTURE
7370 Dean Martin Drive, Suite 210, Las Vegas, Nevada 89118
office 702.363.2222 www.shgarchitecture.com

ALTA DAYCARE UPGRADES
SITE PLAN

STAMP
JOHN A. SAWLOWICZ Construction Manager No. 4288 STATE OF NEVADA
05/09/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN GH
FILE PLANS APPROVED CONSTRUCTION Building & Safety Dept. City of Las Vegas, Nevada
DATE 05/06/2016
SCALE JBK JUN 02 2016
BID NO Does Not Include Electrical, Plumbing or Mechanical Structure or Off-Site Improvements. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance
CLV DWG NO
PANDEN NO 60316
SHT NO AS1.10

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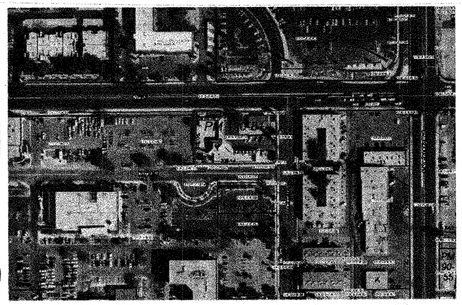
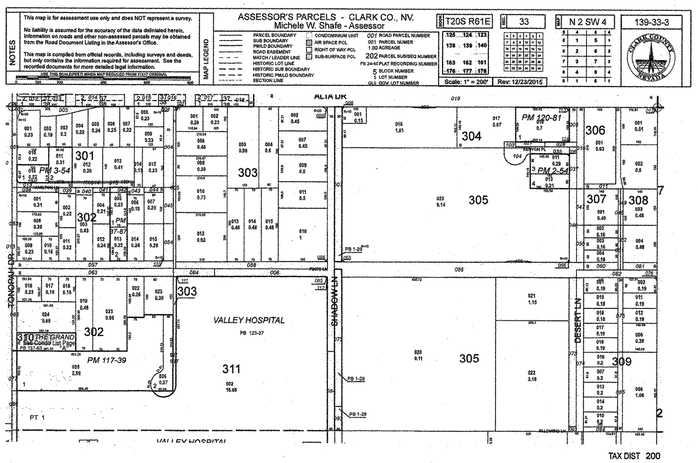
DEPARTMENT OF PUBLIC WORKS

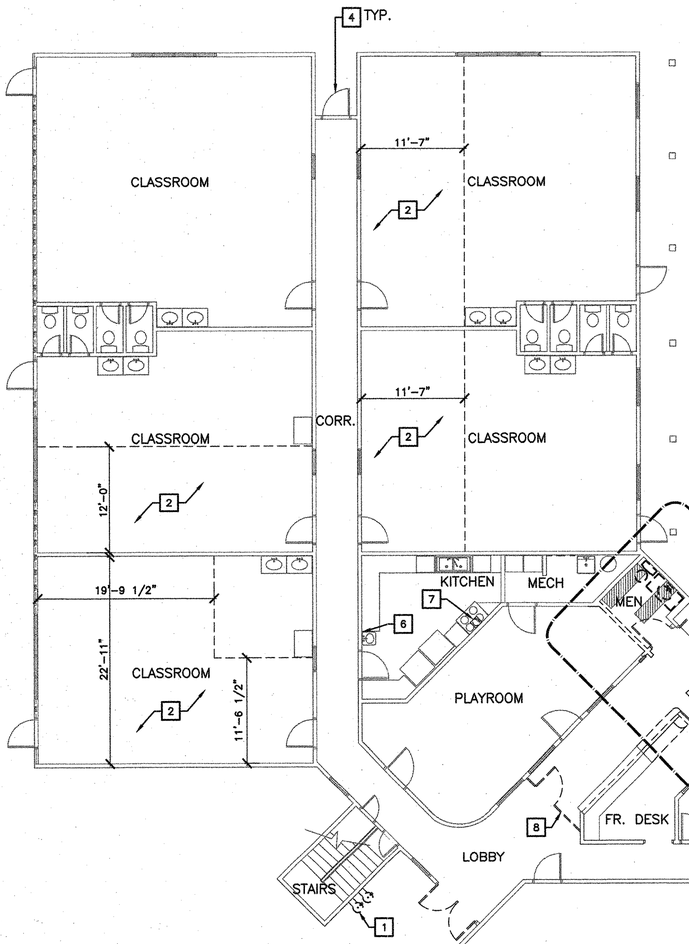


The MAPS and DATA are provided without warranty of any kind, expressed or implied.
Date Created: 3/7/2016

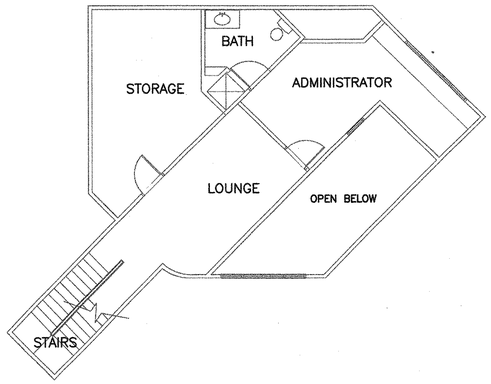
Property Information			
Parcel:	139-33-304-018		
Owner Name(s):	CITY OF LAS VEGAS		
Site Address:			
Jurisdiction:	Las Vegas - 89106		
Zoning Classification:	Planned Development District (PD)		
Misc Information			
Subdivision Name:	PARCEL MAP FILE 120 PAGE 081		
Lot Block:	Lot:1 Block:	Construction Year:	Construction Year:
Sale Date:	Not Available	T-R-S:	20-61-33
Sale Price:	Not Available	Census Tract:	203
Recorded Doc Number:	20150415 00002616	Estimated Lot Size:	Estimated Lot Size: 0.7
Flight Date:	Aerial Flight Date: 03/25/2015		



AS BUILT



DEMO PLAN - MEZZANINE (B)
1/8" = 1'-0"



NORTH

DEMO PLAN - FIRST FLOOR (A)
1/8" = 1'-0"

NORTH

SHEET NOTES

A. CONTRACTOR SHALL PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NO LIMITED TO DIMENSIONS, UTILITY LOCATIONS AND UTILITY SIZES

B. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF DRAWINGS ARE IN DOUBT , OR THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION. RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT AND TRANSMIT TO THE ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

C. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES. DO NOT SCALE DRAWIGS TO DETERMINE ANY LOCATIONS. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONTINUING THE WORK.

D. CONSULTANT ENGINEERING DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. THE CONTACTOR SHALL BE RESONSIBLE TO REVIEW THE ARCHITECTURAL DRAWINGS PRIOR TO THE INSTALLATION OF ANY WORK SHOWN ON THE CONSULTANT ENGINEER'S DRAWINGS. ANY DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT ENGINEER'S DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND RESOLUTION PRIOR TO COMMENCING WORK.

E. DIMENSIONS AND EXISTING ITEMS LOCATION IS BASED UPON INFORMATION PROVIDED BY OTHERS. THE ARCHITECT AND CONSULTANT ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY.

F. PROTECT EXISTING FINISHES IN AREAS WHERE DEMOLITION WORK IS TO BE PERFORMED.

DEMOLITION LEGEND

EXISTING FRAMED WALL TO REMAIN

EXISTING FRAMED WALL TO BE DEMOLISHED, SERVICES INCLUDING, BUT NOT LIMITED TO HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL AND TELECOMMUNICATIONS SHALL BE REMOVED, MAINTAINED AND ABANDONED

DIMENSIONS TO FACE OF GYP BD

EXISTING DOOR & FRAME TO REMAIN AND BE PROTECTED

EXISTING DOOR & FRAME TO BE DEMOLISHED; VERIFY SALVAGE, RELOCATION, RECYCLING OR REUSE WITH OWNER

EXISTING 1-HOUR FIRE WALL TO REMAIN

Keynotes

1. REMOVE EXISTING DRINKING FOUNTAIN. EXISTING WALL AND DRAIN LINE TO REMAIN FOR NEW DRINKING FOUNTAIN.
2. REMOVE EXISTING TRANSITION STRIP AND CARPET. THOROUGHLY STRIP, CLEAN AND REWAX EXISTING ADJACENT VCT TO MAKE LIKE NEW.
3. REMOVE EXISTING CARPET. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO INSTALL NEW FIRE RISER.
4. REMOVE EXISTING DOOR HARDWARE. PREP FOR NEW ADA DOOR LEVER TYPE HARDWARE. (TYP.) SEE DOOR SCHEDULE.
5. REMOVE EXISTING INDOOR JUNGLE GYM THIS ROOM.
6. REMOVE WALL MOUNTED SOAP DISPENSER, LIGHT SWITCH AND OTHER ITEMS TO INSTALL FRP.
7. REMOVE EXISTING KITCHEN EXHAUST HOOD. PREP TO INSTALL NEW APPROVED TYPE II HOOD AS REQUIRED. SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
8. REMOVE EXISTING INDOOR GATE.

Field verify that all walls being removed are non-bearing walls and/or non-shear walls.

AS BUILT

CITY OF LAS VEGAS NEVADA

REVISIONS

ARCHITECT
SH ARCHITECTURE
Steven Hansen, AIA
2300 W. Sahara Ave. Suite 720, Las Vegas, Nevada 89102
office 702.363.2222
www.shansenarchitecture.com

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
DEMOLITION PLANS

STAMP
JOSHUA SAMUEL HANSEN, Registered Architect, No. 14088, STATE OF NEVADA
FEB 08 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE 702.229-6251
FAX 702.229-4846
TDD 702.386-9108

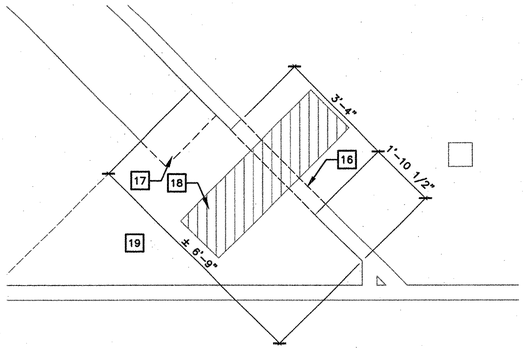
PLANS APPROVED
CONSTRUCTION
Building & Safety
City of Las Vegas, Nevada

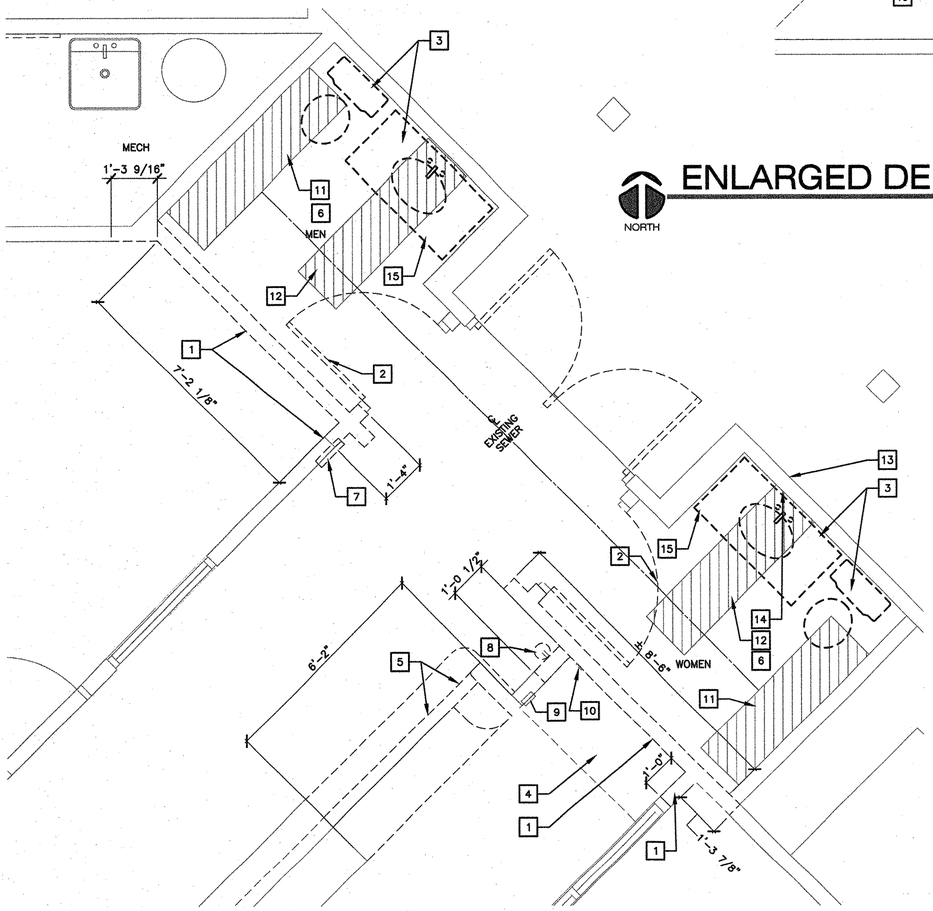
DRAWN BY: JBK
DATE: JUN 02 2016

This Is Not Implied Approval For Plumbing, Mechanical, Sprinkler Or On-Site Improvements. Make No Change Without Approval. Plan is Subject To Verification By Building & Safety Plan Review Personnel For Compliance With Applicable Codes And Ordinances.

BLD NO: 15.60316.JH
CLV DWG NO: 521-301
HANSEN NO: 60316
SHT NO: AD2.10

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS AND USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT N.A.C. 623.280





ENLARGED DEMO PLAN - FIRST FLOOR (B)

1/2" = 1'-0"

NORTH

ENLARGED DEMO PLAN - FIRST FLOOR (A)

1/2" = 1'-0"

NORTH

Field verify that all walls being removed are non-bearing walls and/or non-shear walls.

SHEET NOTES

A. CONTRACTOR SHALL PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NO LIMITED TO DIMENSIONS, UTILITY LOCATIONS AND UTILITY SIZES

B. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF DRAWINGS ARE IN DOUBT , OR THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION. RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT AND TRANSMIT TO THE ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

C. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES. DO NOT SCALE DRAWIGS TO DETERMINE ANY LOCATIONS. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONTINUING THE WORK.

D. CONSULTANT ENGINEERING DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. THE CONTACTOR SHALL BE RESONSIBLE TO REVIEW THE ARCHITECTURAL DRAWINGS PRIOR TO THE INSTALLATION OF ANY WORK SHOWN ON THE CONSULTANT ENGINEER'S DRAWINGS. ANY DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT ENGINEER'S DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND RESOLUTION PRIOR TO COMMENCING WORK.

E. DIMENSIONS AND EXISTING ITEMS LOCATION IS BASED UPON INFORMATION PROVIDED BY OTHERS. THE ARCHITECT AND CONSULTANT ENGINEER ASSUMES NO RESPONSIBLITY FOR THE ACCURACY.

F. PROTECT EXISTING FINISHES IN AREAS WHERE DEMOLITION WORK IS TO BE PERFORMED.

DEMOLITION LEGEND

- EXISTING FRAMED WALL TO REMAIN
- DIMENSIONS TO FACE OF GYP BD — EXISTING FRAMED WALL TO BE DEMOLISHED, SERVICES INCLUDING, BUT NOT LIMITED TO HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL AND TELECOMMUNICATIONS SHALL BE REMOVED, MAINTAINED AND ABANDONED
- EXISTING DOOR & FRAME TO REMAIN AND BE PROTECTED
- EXISTING DOOR & FRAME TO BE DEMOLISHED; VERIFY SALVAGE, RELOCATION, RECYCLING OR REUSE WITH OWNER
- EXISTING 1-HOUR FIRE WALL TO REMAIN

KEYNOTES

1. DEMOLISH EXISTING WALLS.
2. REMOVE EXISTING DOOR AND FRAME. CLEAN AND STORE FOR REUSE.
3. REMOVE EXISTING PLUMBING FIXTURES.
4. DEMOLISH EXISTING CASEWORK.
5. ADD/ALT: MODIFY EXISTING COUNTER AND PARTIAL HEIGHT WALL TO BE ADA COMPLIANT. SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
6. DEMOLISH EXISTING TILE FLOOR.
7. REMOVE EXISTING FIRE ALARM FIREMAN'S PANEL. NEW PANEL TO BE PROVIDED. SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
8. REMOVE AND STORE EXISTING WALL MOUNTED FIRE EXTINGUISHER AND WALL ATTACHMENT FOR REINSTALLATION. SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
9. EXISTING SECURITY ALARM CONTROL TO REMAIN.
10. EXISTING DUPLEX OUTLET TO BE ABANDONED (TYP. 2). SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
11. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO REMOVE EXISTING SEWER LINE. RELOCATE AND INSTALL NEW SEWER LINE FOR NEW WATER CLOSET AND LAVATORY.
12. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO REMOVE AND CAP EXISTING SEWER LINE.
13. CUT AND REMOVE EXISTING EXTERIOR WALL AS NEEDED TO INSTALL NEW DRINKING FOUNTAIN.
14. CUT AND REMOVE EXISTING INTERIOR WALL AS NEEDED TO CONNECT TO EXISTING SEWER AND WATER LINE.
15. REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP.
16. CUT AND REMOVE EXISTING EXTERIOR WALL AS NEEDED TO INSTALL NEW HOLLOW METAL DOOR AND FRAME.
17. CUT AND REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP.
18. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO INSTALL NEW FIRE RISER. SEE CIVIL DRAWINGS.
19. DEMOLISH EXISTING CARPET

AS BUILT

CITY OF LAS VEGAS
NEVADA

REVISIONS

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SCHITECTURE
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Henderson, Nevada 89074
office 702.363.2222
www.schitecture.com

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
ENLARGED DEMO PLAN

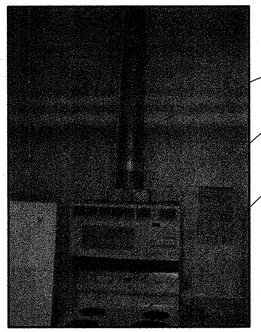
DRAWINGS AS INSTRUMENTS OF SERVICE ARE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS AND USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS PREPARED BY THE CLIENT MAY BE UTILIZED ONLY FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT. N.A.C. 623.280

STAMP
KYLE A. SAWDEY — No. 13858 — STATE OF NEVADA — REGISTERED ARCHITECT
FEB 08 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4946
TDD: (702) 386-9108

DRAWN CJT
FILE PLANS APPROVED CONSTRUCTION Building & Safety Dept. City of Las Vegas, Nevada
DATE 02/08/2016
SCALE JBK JUN 02 2016
BID NO Does Not Include Electrical, Plumbing, Mechanical, Structural or Civil Improvements. Make No Change Without Approval. Plan is Subject to Comply with All Codes
CLV PERMIT NO Permit to Violate Any Ordinance
JOB NO 60316
SHT NO AD2.11

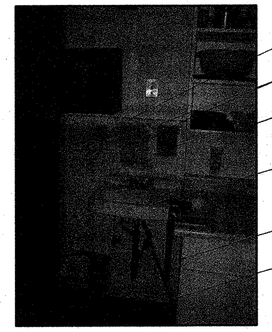


- EXISTING EXHAUST TO BE REMOVED TO INSTALL NEW APPROVED TYPE II HOOD. REFER TO MECHANICAL SHEETS.
- REMOVE, STORE, AND REINSTALL EXISTING MICROWAVE.
- REMOVE, STORE AND REINSTALL EXISTING RANGE.

DETAIL 1
SCALE: NTS

- DEMOLISH EXISTING WALL FORNEW FIRE RISER DOOR. SEE SHEET AD2.10 FOR EXACT CUT MEASUREMENT.
- EXISTING COUNTER TO REMAIN,PROTECT IN PLACE FOR NEW WALL INSTALLATION.
- EXISTING EXISTING CARPET. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO INSTALL NEW FIRE RISER. SEE SHEET AD2.10 FOR EXACT CUT MEASUREMENTS.

DETAIL 2
SCALE: NTS



- REMOVE AND RELOCATE EXISTING LIGHT SWITCH.
- REMOVE AND STORE EXISTING WALL GRAPHIC ITEMS.
- REMOVE, STORE AND REINSTALL EXISTING WALL MOUNTED SOAP DISPENSER.
- EXISTING SERVICE SINK TO REMAIN. PROTECT IN PLACE FOR INSTALLATION OF FRP.
- FRP TO BE INSTALLED THIS AREA.
- DEMOLISH EXISTING RUBBER BASE.

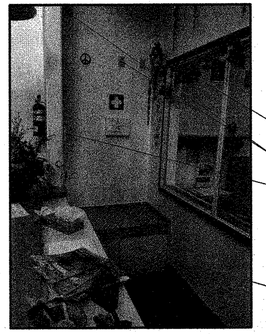
DETAIL 3
SCALE: NTS

- REMOVE AND STORE EXISTING WALL GRAPHIC ITEMS.
- REMOVE AND STORE EXISTING FIRE ALARM FIREMAN'S PANEL. NEW PANEL TO BE PROVIDED.
- REMOVE AND RELOCATE EXISTING FIRE ALARM.

DETAIL 4
SCALE: NTS

- REMOVE AND STORE EXISTING WALL MOUNTED FIRE EXTINGUISHER AND WALL ATTACHMENT FOR REINSTALLATION.
- REMOVE AND RELOCATE EXISTING LIGHT SWITCHES.
- REMOVE AND RELOCATE WATER SUPPLY PIPE.
- REMOVE AND RELOCATE EXISTING DUPLEX OUTLET.
- DEMOLISH EXISTING RUBBER BASE.

DETAIL 5
SCALE: NTS

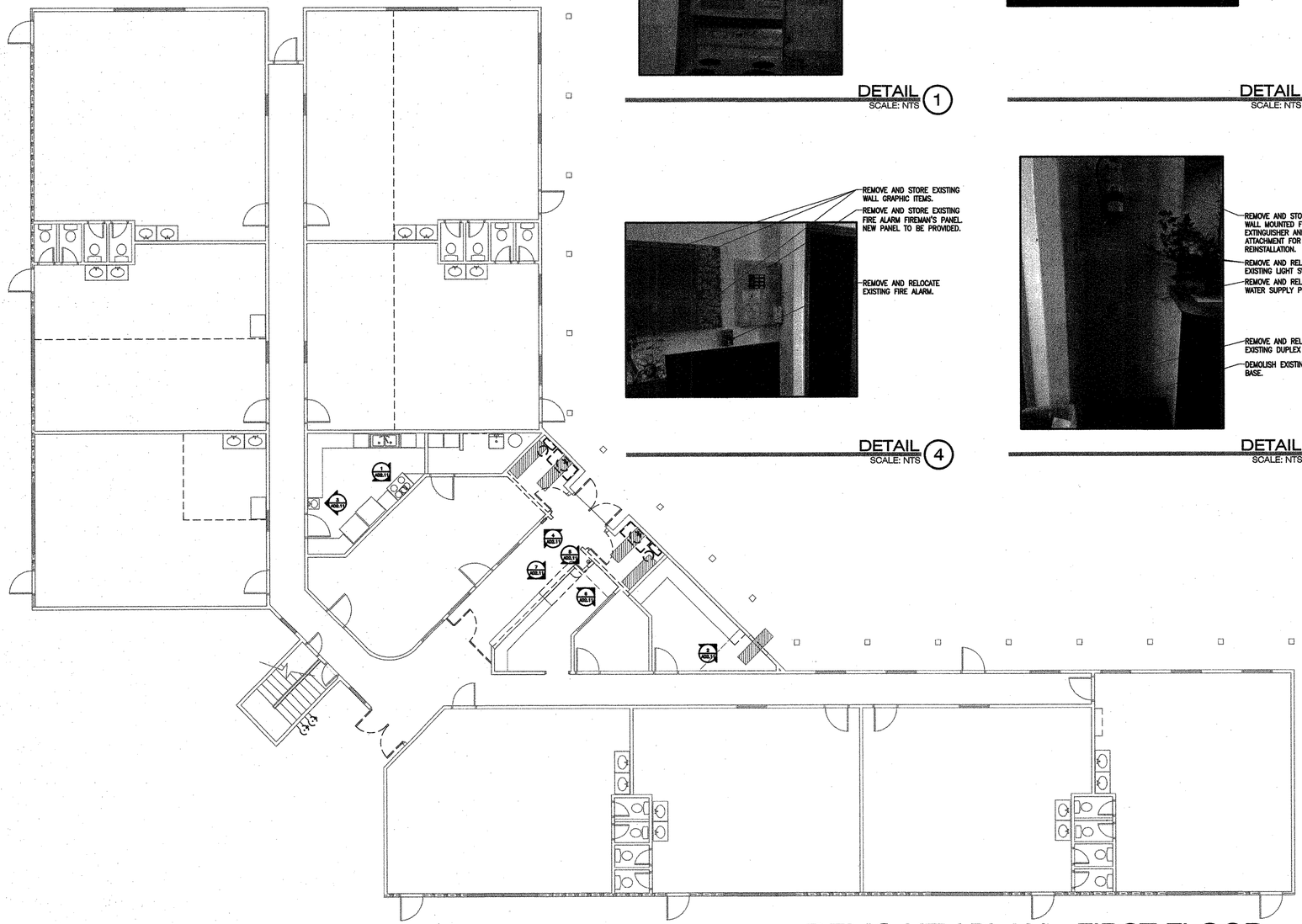


- REMOVE AND STORE EXISTING WALL SCONCE.
- EXISTING DUPLEX OUTLETS TO BE ABANDONED.
- EXISTING SECURITY ALARM CONTROL TO REMAIN.
- DEMOLISH EXISTING CASEWORK.

DETAIL 6
SCALE: NTS

- ADD/ALT: MODIFY EXISTING COUNTER AND WALL TOPROVIDE ADA ACCESSIBLE COUNTER.
- REMOVE EXISTING RUBBER BASE. REPLACE NEW RUBBER BASE TO MATCH EXISTING.

DETAIL 7
SCALE: NTS



DEMO KEY PLAN - FIRST FLOOR
1/8" = 1'-0" A

NORTH

Field verify that all walls being removed are non-bearing walls and/or non-shear walls.

AS BUILT

PUBLIC WORKS
DEPARTMENT OF

REVISIONS

ARCHITECT

SH ARCHITECTURE
7350 Peak Drive, Suite 210, Las Vegas, Nevada 89128
office 702.363.2222 www.shcharchitecture.com

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
DEMO DETAIL IMAGES

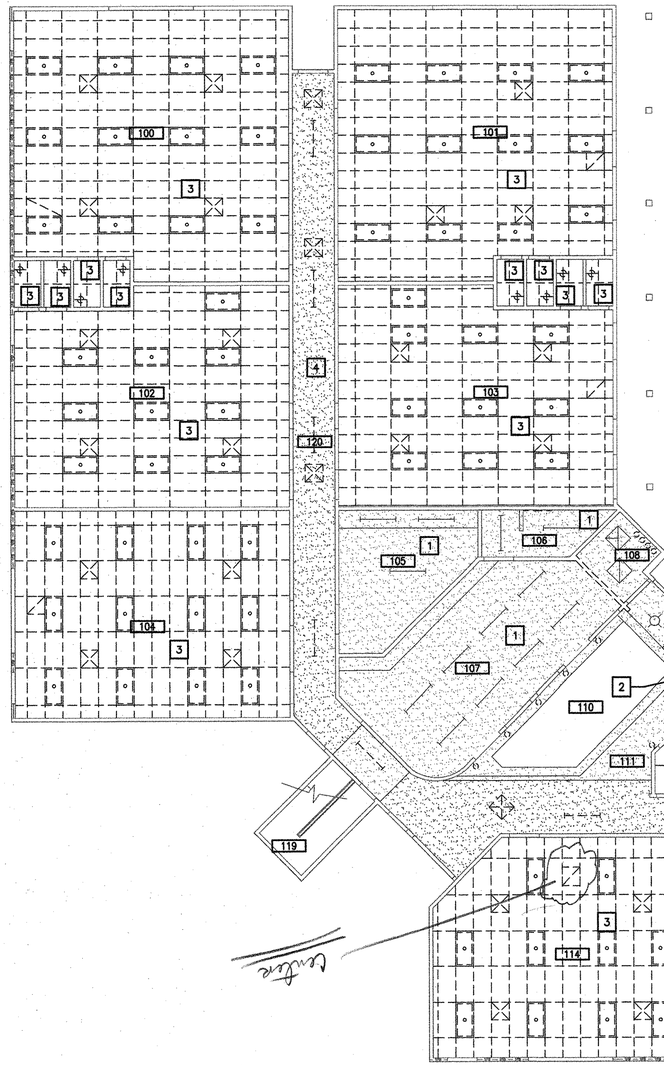
STAMP

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4546
TDD: (702) 386-9108

DRAWN CJT
FILE PLANS APPROVED CONSTRUCTION
DATE Building & Safety Dept. City of Las Vegas, Nevada
SCALE JUN 02 2016
BID NO 15.60316.JH
Does Not Include Electrical, Plumbing, Mechanical, Structural or Off-Site Improvements and No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.
CW NO 60316
SHT NO AD2.12

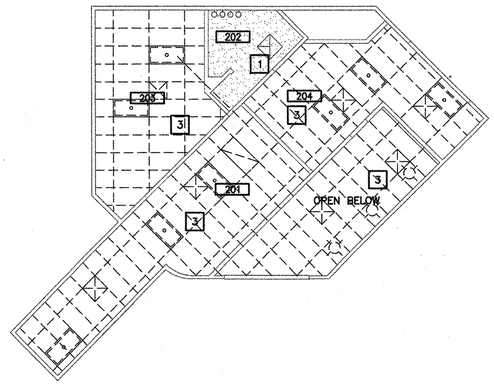
DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS. ANY USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS OBTAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED AND MAY NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT N.R.S. 623.308



NORTH

DEMO RCP - MEZZANINE (B)

1/8" = 1'-0"



NORTH

DEMO REFLECTED CEILING PLAN - FIRST FLOOR (A)

1/8" = 1'-0"

Field verify that all walls being removed are non-bearing walls and/or non-shear walls.

SHEET NOTES

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B. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF DRAWINGS ARE IN DOUBT , OR THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION. RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT AND TRANSMIT TO THE ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

C. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES. DO NOT SCALE DRAWIGS TO DETERMINE ANY LOCATIONS. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONTINUING THE WORK.

D. VERIFY EXISTING LAY-IN CEILING HEIGHT BEFORE BEGINNING OF WORK. NEW LAY-IN CEILING IN EXISTING SPACE TO MATCH EXISTING HEIGHT.

E. AFTER DEMOLITION OF EXISTING CEILING (WHERE APPLICABLE), CONTRACTOR TO CONFIRM HEIGHTS OF NEW CEILING ARE COMPATIBLE WITH EXISTING CONDITIONS. CONTRACTOR TO NOTIFY OWNER AND ARCHITECT IMMEDIATELY IF CONFLICTS DISCOVERED.

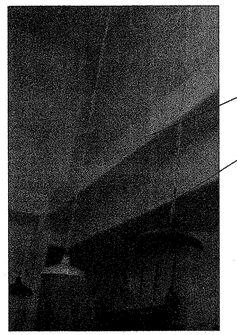
F. PROTECT EXISTING FINISHES IN AREAS WHERE DEMOLITION WORK IS TO BE PERFORMED.

Ceiling Legend

- EXISTING DIFFUSERS TO REMAIN. VERIFY WITH EXISTING CONDITIONS AND MECHANICAL DRAWINGS.
- EXISTING DIFFUSERS TO BE REMOVED, STORED AND REUSED WHEN POSSIBLE. SEE MECHANICAL DRAWINGS. DAMAGED DIFFUSERS TO BE DISCARDED. REUSED DIFFUSERS TO BE CLEANED AND PREPPED BEFORE REUSE.
- EXISTING 2' X 4' LIGHT FIXTURE TO BE REMOVED, STORED AND REUSED WHEN POSSIBLE.
- EXISTING 2' X 4' LIGHT FIXTURE TO REMAIN
- EXISTING WALL MOUNTED RESTROOM LIGHT FIXTURE TO REMAIN
- EXISTING SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED, STORED AND REUSED WHEN POSSIBLE.
- EXISTING PENDANT LIGHT FIXTURE TO BE REMOVED, STORED AND REUSED.
- EXISTING WALL MOUNTED LIGHT FIXTURE TO BE REMOVED
- EXISTING LINEAR SURFACE MOUNTED LIGHT FIXTURE TO BE REMAIN
- EXISTING LINEAR SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED

Key Notes

1. NO DEMO WORK TO BE DONE THIS AREA.
2. DEMOLISH EXISTING GYP. BD. CEILING. GYP. BD. SOFFIT ABOVE TO REMAIN. SEE DETAIL 1 ON SHEET AD3.10 FOR ADDITIONAL INFORMATION.
3. DEMOLISH EXISTING ACOUSTICAL CEILING TILE AND GRID.
4. DEMOLISH EXISTING HARD LID CEILING. PREP FOR NEW ACOUSTICAL CEILING TILE.



DETAIL (1)

SCALE: NTS

AS BUILT

CITY OF LAS VEGAS NEVADA

REVISIONS

ARCHITECT

SH ARCHITECTURE
Jeff Head Principal AIA, LEED AP
2470 St. Rose Parkway, Suite 305 Henderson, Nevada 89074
office 702.363.2222 www.shearchitecture.com

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
DEMO REFLECTED CEILING PLAN

STAMP

JEFFREY A. SAWDON — Registered Professional Engineer — No. 9036 — State of Nevada
FEB 08 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN CJT
FILE PLANS APPROVED
CONSTRUCTION
Building & Safety Dept.
DATE City of Las Vegas
JBK JUN 02 2016
BID NO Does Not Include Electrical, Plumbing, Mechanical Structural or Off-Site Improvements. Make No Change Without Approval. Plan is Permit to Violate Any Ordinance
DEV DWG NO
PROJECT NO 60316
SHT NO AD3.10

DEPARTMENT OF PUBLIC WORKS
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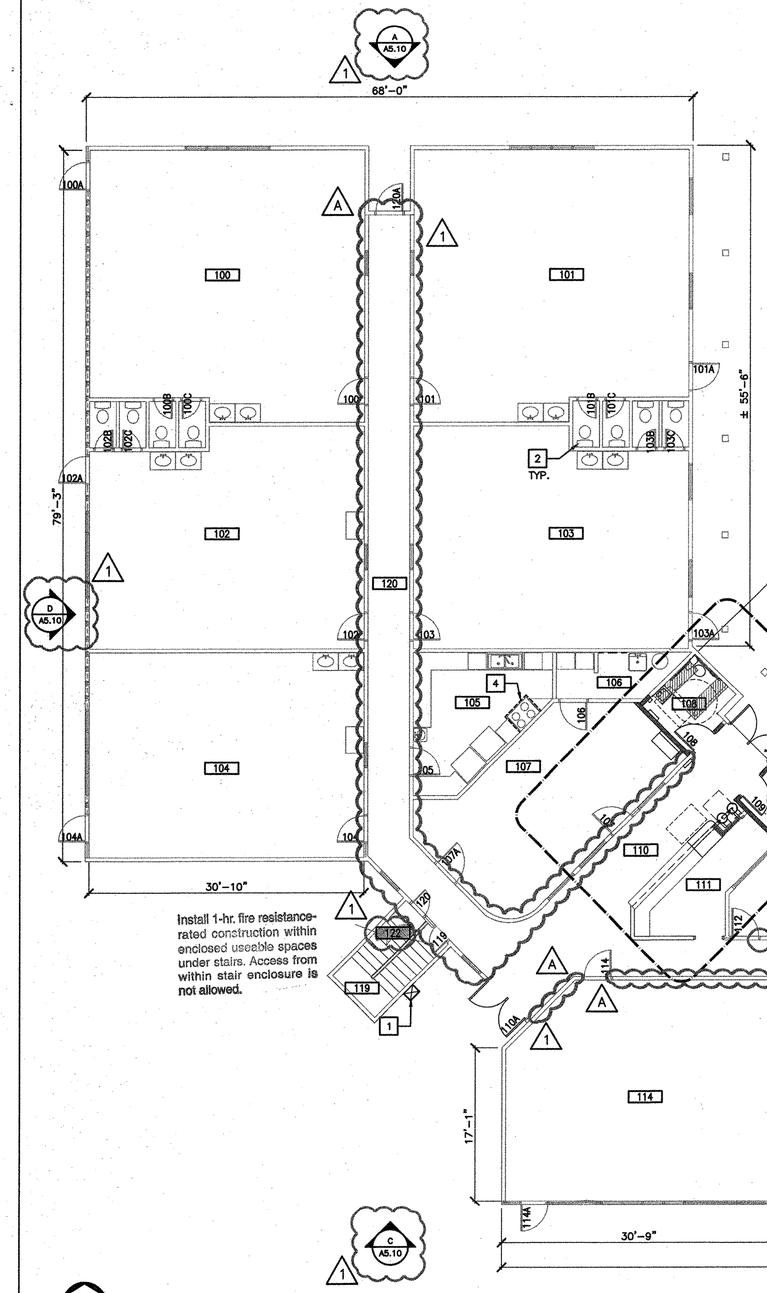
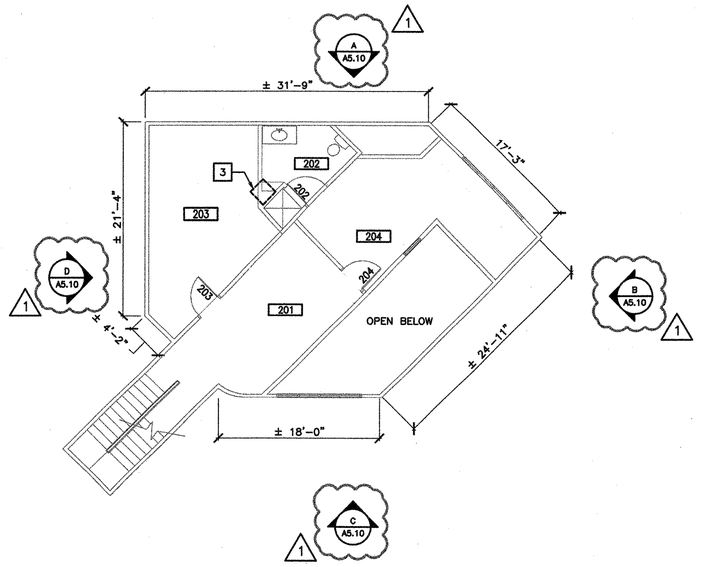


FLOOR PLAN - FIRST FLOOR (A)

1/8" = 1'-0"



FLOOR PLAN - MEZZANINE (B)

1/8" = 1'-0"

SHEET NOTES

A. CONTRACTOR SHALL PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NO LIMITED TO DIMENSIONS, UTILITY LOCATIONS AND UTILITY SIZES.

B. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF DRAWINGS ARE IN DOUBT , OR THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FILED CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION. RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT AND TRANSMIT TO THE ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

C. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES. DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONTINUING THE WORK.

D. DIMENSIONS INDICATED ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL DIMENSIONS.

2 E. REFER TO SHEET AG4.10 FOR TYPICAL PARTITION FRAMING DETAILS.

KEY NOTES

1 INSTALL NEW ADA COMPLAINT DRINKING FOUNTAIN.

2 EXISTING CLASS ROOM TOILETS TO REMAIN. PROVIDE FRP TO 60" A.F.F.

3 PROVIDE 2' X 2' CLEARANCE FOR EXHAUST SHAFT. SEE MECHANICAL DRAWINGS.

4 INSTALL TYPE 2 HOOD. SEE MECHANICAL DRAWINGS.

WALL LEGEND

SYMBOL	WALL DESCRIPTION	RATING	LISTED ASSEMBLY
	EXISTING WALL TO REMAIN	N/R	NONE
	EXISTING RATED 1 HR. WALL TO REMAIN	N/A	N/A
	NEW 6" WOOD STUD WALL	N/R	NONE 1
A	NEW 6" WOOD RATED WALL	1-HR	3/AG4.10

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

Provide interior finishes compliant with appropriate flame spread and smoke developed ratings.

RECEIVED
APR 19 2016
CITY OF LAS VEGAS
PERMITS

PLANS APPROVED
PLANNING
Building & Safety Dept.
City of Las Vegas, Nevada
JA MAY 11 2016
Conforms to the minimum requirements of LVMC Title 19, applicable Master Plan development standards and/or Conditions of Approval. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.

PLANS APPROVED
CONSTRUCTION
Building & Safety Dept.
City of Las Vegas, Nevada
JA BK JUN 02 2016
Does Not Include Electrical, Plumbing, Mechanical, Structural or Off-Site Improvements. Make No Change Without Approval. Plan is Not a Permit to Violate Any Ordinance.

AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
A 3/3/16 PLAN COMMENTS
A 3/14/16 PLAN COMMENTS
A 4/12/16PLAN COMMENTS

ARCHITECT
SH ARCHITECTURE
7250 Peak Drive Suite 216 Las Vegas Nevada 89128
office 702.363.2222 www.sh-architecture.com

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
FLOOR PLANS

STAMP
JOHN A. SAWTON No. 14058 REGISTERED ARCHITECT STATE OF NEVADA
04/12/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6335
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN CJT
TITLE
DATE
SCALE
BID PKG
CLV DWG
HANSEN NO 60316
SHT NO A2.10

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE JOHN PROFESSIONAL NAMED, SHALL NOT BE USED ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT. REUSE OF THESE DRAWINGS AND SPECIFICATIONS WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT FOR ANY PURPOSE OTHER THAN THE SPECIFIED PROJECT WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ARCHITECT. ALL REPRODUCTIONS OR COPIES OF THE DRAWINGS AND SPECIFICATIONS, EXCEPT FOR THE ORIGINAL CONTRACT DOCUMENTS, SHALL BE DESTROYED ON REQUEST OF THE ARCHITECT. ALL COPYRIGHTS AND OTHER PROPERTY RIGHTS IN THE DRAWINGS AND SPECIFICATIONS ARE RESERVED BY THE ARCHITECT AND ARE APPLICABLE TO ALL USES, INCLUDING BUT NOT LIMITED TO REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED. COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY ADDED PROJECT W.A.C. 623.300

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

SHEET NOTES

A. SEE SHEET G1.00 FOR ALL ACCESSORY DIMENSIONS AND ADA COMPLIANCE.

B. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES – TYPICAL FOR MOUNTING AND WITH ADEQUATE SUPPORT TO MEET CODE REQUIREMENTS

C. INSULATE ALL LAVATORY AND HAND SINK EXPOSED DRAIN AND/OR HOT WATER PIPING BELOW FIXTURES PER ADAAG.

D. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START

E. ALL INSTALLATION TO COMPLY WITH THE LATEST EDITION OF THE TCA HANDBOOK

F. FOR THE CHILDREN'S RESTROOM, ALL MOUNTING HEIGHTS AND CLEARANCES FOR PLUMBING FIXTURES AND ACCESSORIES SHALL MEET THE REQUIREMENTS OF ADAAG APPENDIX A4.16.7

G. PATCH AND REPAIR EXISTING WALLS WHERE DEMOLITION OCCURS.

H. REFER TO SHEETS AG4.10 FOR TYPICAL PARTITION FRAMING DETAILS.

WALL LEGEND

SYMBOL	WALL DESCRIPTION	RATING	LISTED ASSEMBLY
	EXISTING WALL TO REMAIN	N/R	NONE
	EXISTING RATED 1 HR. WALL TO REMAIN	N/A	N/A
	NEW 6" WOOD STUD WALL	N/R	NONE
	NEW 6" WOOD RATED WALL	1-HR	9/AG4.10

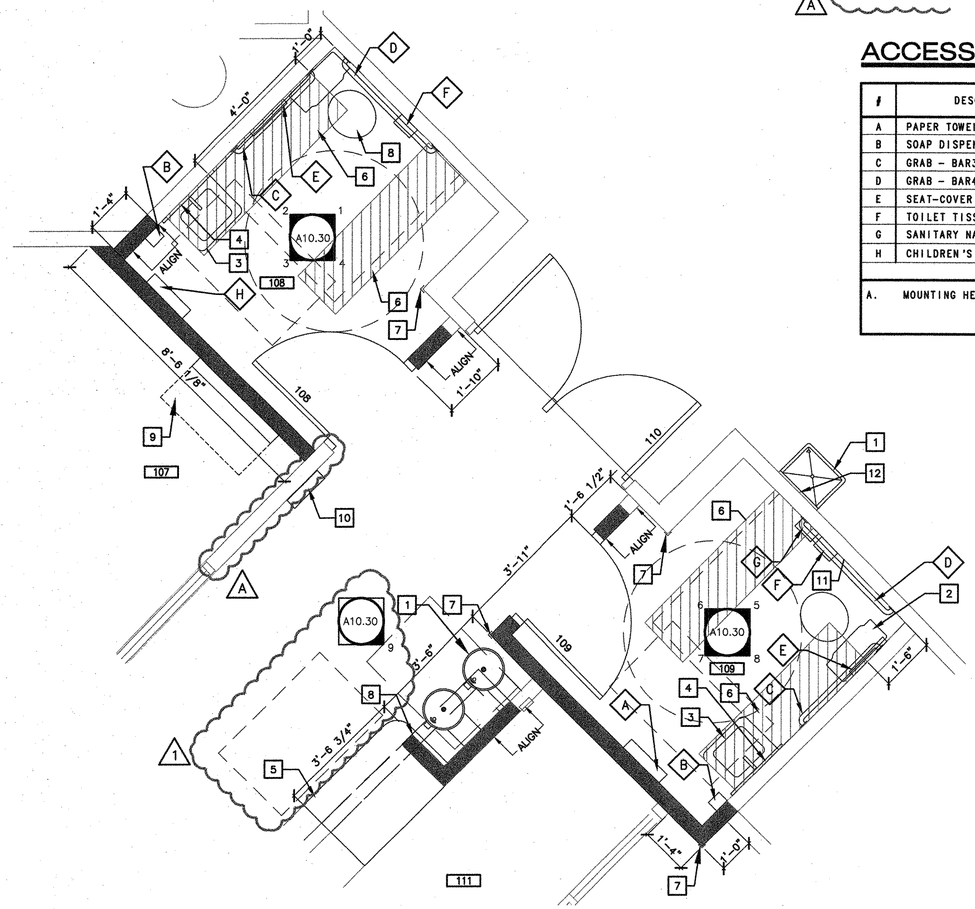
KEY NOTES

1. INSTALL NEW ADA DRINKING FOUNTAIN.
2. INSTALL ADA FLOOR MOUNTED TOILET.
3. INSTALL NEW ADA LAVATORY.
4. INSTALL PLATE GLASS MIRROR W/ 1/2" ALUMINUM FRAME.
5. ADD/ALT MODIFY EXISTING COUNTER TO PROVIDE 36" HIGH ADA ACCESSIBLE COUNTER.
6. INSTALL NEW CONCRETE SLAB. THICKNESS TO MATCH EXISTING.
7. 8'-0"H CORNER GUARD.
8. INSTALL NEW ADA FLOOR MOUNTED CHILDREN'S TOILET.
9. INSTALL BABY CHANGING STATION.
10. INSTALL NEW FIRE ALARM CONTROL PANEL.
11. PATCH AND REPAIR EXISTING GYP. BD. SURFACE. MATCH EXISTING TEXTURE.
12. INSTALL TYPE 2 FILL COMPACT TO 97%. REPAIR VAPOR BARRIER, COVER WITH 4" 4500 PSI CONCRETE. TROWEL SMOOTH.
13. INSTALL NEW FIRE RISER. FIRE RISER ROOM TO BE BUG PROOF.
14. FIRE DEPARTMENT CONNECTOR.

ACCESSORY SCHEDULE

#	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING TYPE	MOUNTING HT.	REMARKS
A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	TBD	RECESSED	44"	MOUNTING HEIGHT TO BE FROM FINISHED FLOOR TO OPENING
B	SOAP DISPENSER	BOBRICK	TBD	SURFACE	33"	
C	GRAB - BAR36	BOBRICK	TBD	SURFACE	33"	MOUNTING HEIGHT AT 25" IN CHILDRENS RESTROOM PER ADAAG
D	GRAB - BAR42	BOBRICK	TBD	SURFACE	33"	MOUNTING HEIGHT AT 25" IN CHILDRENS RESTROOM PER ADAAG
E	SEAT-COVER DISPENSER	BOBRICK	TBD	SURFACE	36"	MOUNTING HEIGHT AT 17" IN CHILDRENS RESTROOM PER ADAAG
F	TOILET TISSUE DISPENSER	BOBRICK	TBD	SURFACE	22"	MOUNTING HEIGHT AT 17" IN CHILDRENS RESTROOM PER ADAAG
G	SANITARY NAPKIN DISPOSAL	BOBRICK	TBD	SURFACE	22"	
H	CHILDREN'S PAPER TOWEL DISPENSER	BOBRICK	TBD	SURFACE		MOUNTING HEIGHT AT 24" FROM FINISHED FLOOR TO OPENING

A. MOUNTING HEIGHT TO BE FROM FINISHED FLOOR TO THE CENTERLINE OF FIXTURE, U.N.O.



NORTH

ENLARGED FLOOR PLAN - FIRST FLOOR (A)

1/2" = 1'-0"

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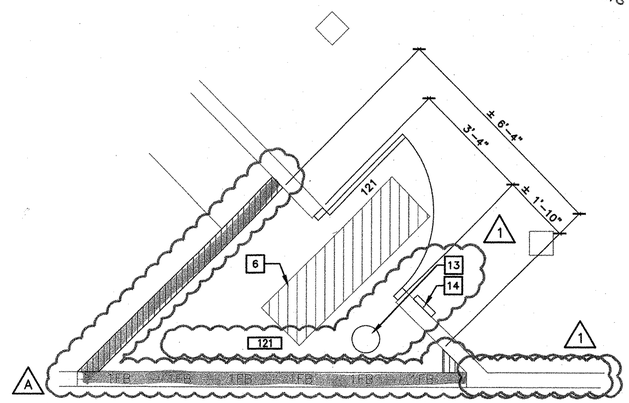

NORTH

ENLARGED FLOOR PLAN - FIRST FLOOR (B)

1/2" = 1'-0"

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ALTA DAYCARE UPGRADES
ENLARGED FLOOR PLAN

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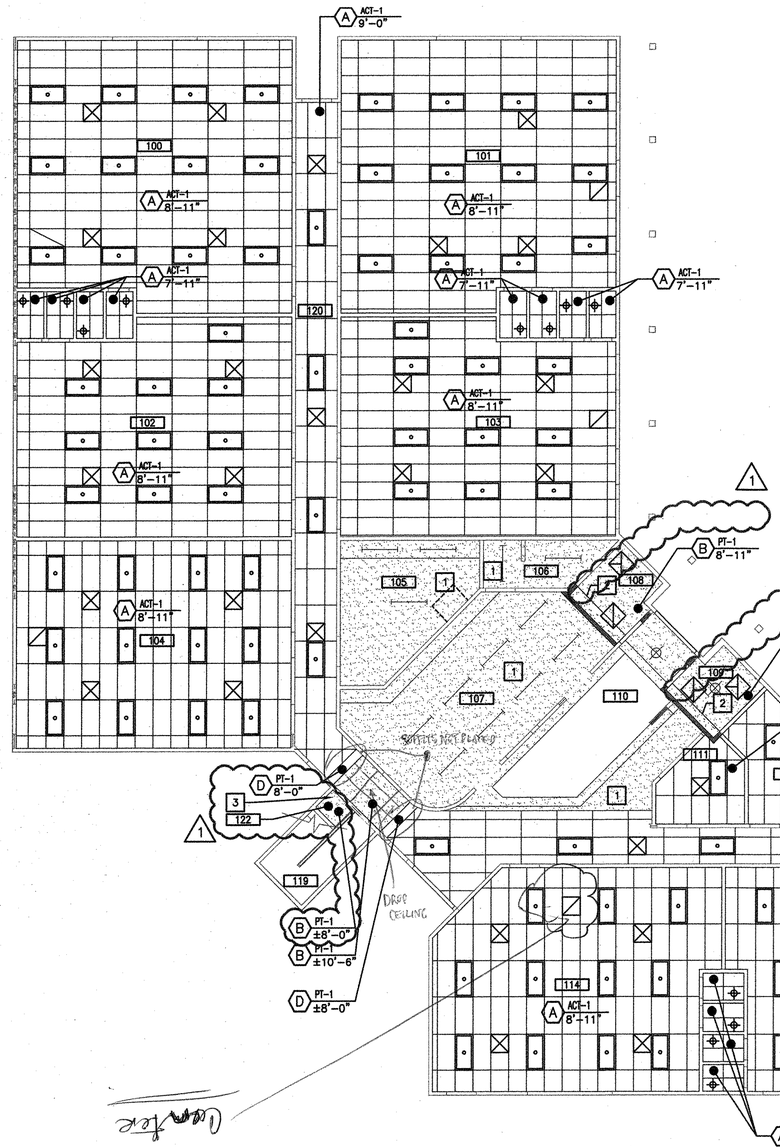
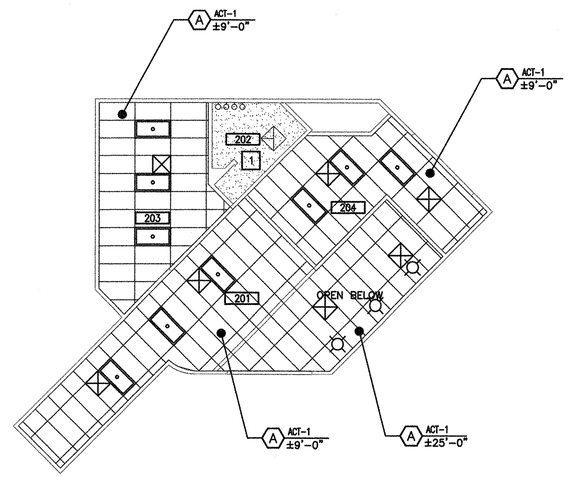


RCP - MEZZANINE

1/8" = 1'-0" (B)



REFLECTED CEILING PLAN - FIRST FLOOR

1/8" = 1'-0" (A)

CEILING LEGEND

SYMBOL	DESCRIPTION
A FINISH HEIGHT	NEW 2X4 LAY-IN ACOUSTICAL CEILING TILE, SEE DETAIL 1/A3.11
B FINISH HEIGHT	EXISTING FRAMED GYP. BD. CEILING TO REMAIN
C FINISH HEIGHT	NOT USED 1
D FINISH HEIGHT	NEW FRAMED GYP. BD. HEADER, PAINTED, SEE DETAIL 2/AG4.10 1 2
E FINISH HEIGHT	NEW FRAMED GYP. BD. CEILING, PAINTED, SEE DETAIL 3/A3.11 1

FIXTURE LEGEND

SYMBOL	DESCRIPTION
	RECESSED DOWN LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	RECESSED 2X4 OR 2X2 LAY-IN LIGHT FIXTURE
	PENDANT MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED STRIP FLUORESCENT LIGHT FIXTURE
	CHAIN-MOUNTED STRIP FLUORESCENT LIGHT FIXTURE
	CEILING MOUNTED ILLUMINATED EXIT SIGN
	WALL MOUNTED ILLUMINATED EXIT SIGN
	BATTERY PACK
	CEILING SPEAKER
	WALL MOUNTED SPEAKER
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	SECURITY CAMERA
	ACCESS PANEL
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER / EXHAUST
	EXHAUST FAN
	CHANDELIER
	SMOKE DETECTOR

Acoustical Ceiling Systems Comply with IBC Section-808

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

Key Notes

1. NO WORK TO BE DONE THIS AREA.
2. INSTALL GYP BD. CEILING TO NEW AREA. HEIGHT TO MATCH EXISTING. SEE DETAIL 3 ON SHEET A3.11 FOR ADDITIONAL INFORMATION.
3. EXISTING 1-HOUR RATED CEILING ABOVE.

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ALTA DAYCARE UPGRADES
REFLECTED CEILING PLAN

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05/09/2016

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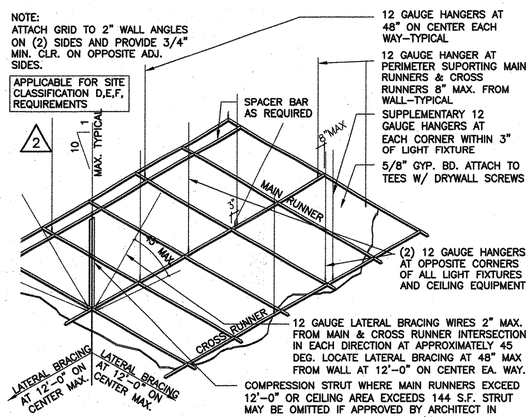
NOTE:
ATTACH GRID TO 2" WALL ANGLES ON (2) SIDES AND PROVIDE 3/4" MIN. CLR. ON OPPOSITE ADJ. SIDES.

APPLICABLE FOR SITE CLASSIFICATION D,E,F, REQUIREMENTS



DETAIL 1

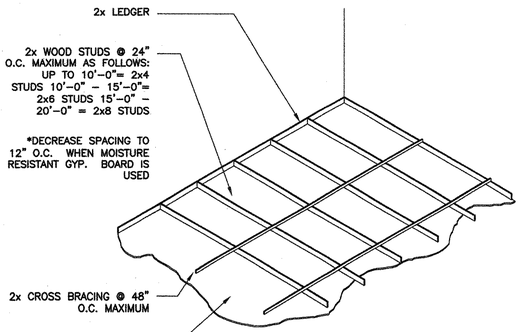
1/2" = 1'-0"

M102–03

Acoustical Ceiling Systems Comply with IBC Section-808

2

NOTE:
PROVIDE CONNECTION TO LEDGER CAPABLE OF SUPPORTING 200 LBS VERTICALLY AND 50 LBS LATERALLY



GYPSUM BOARD CEILING - WOOD FRAME 3

3" = 1'-0"

M102–02

1

The Accompanying Engineer Seal applies to Structural Elements Only.

PROFESSIONAL ENGINEER – STATE OF NEVADA
GREG A. MEYER
EXP. 12-31-17
CIVIL STRUCTURAL
No. 015053

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ALTA DAYCARE UPGRADES
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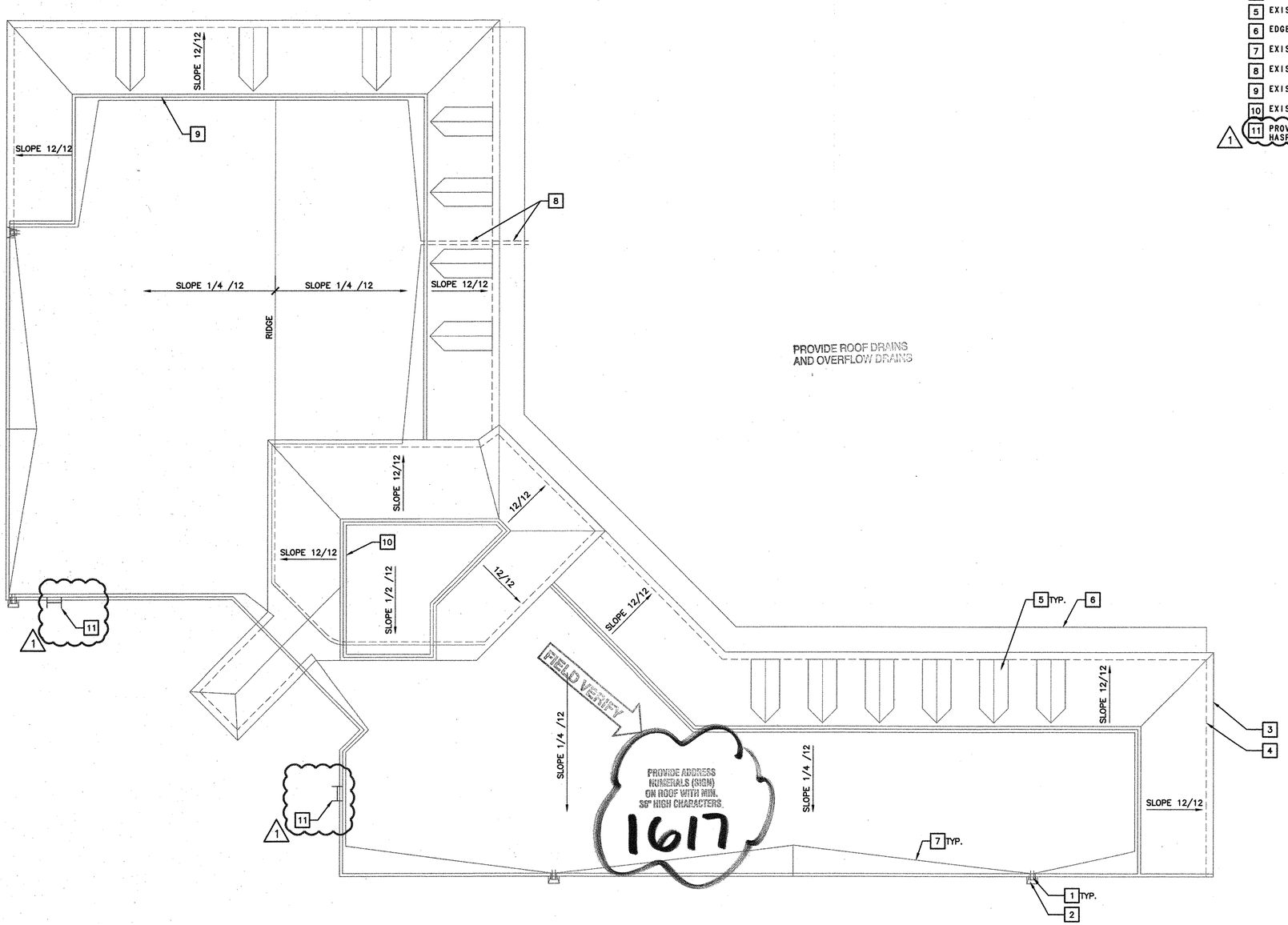

PROVIDE ROOF DRAINS AND OVERFLOW DRAINS

KEY NOTES

1. EXISTING SCUPPER (TYP.)
2. EXISTING DOWNSPROUT AND SPLASH BLOCK
3. EDGE OF ROOF 12" OVERHANG
4. EDGE OF BUILDING BELOW
5. EXISTING DORMER (TYP.)
6. EDGE OF ROOF 4'-6" OVERHANG
7. EXISTING CRICKET (TYP.)
8. EXISTING DOWNSPROUT UNDER WALK TO PARKING
9. EXISTING PARAPET WALL
10. EXISTING PARAPET WALL/CANT
11. PROVIDE NEW PERMANENT EXTERIOR LADDER WITH 6' H SOLID HINGE PANEL WITH HASP AND PADLOCK.

1

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EXISTING ROOF PLAN

1/8" = 1'-0"

NORTH

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ALTA DAYCARE UPGRADES
EXISTING ROOF PLAN

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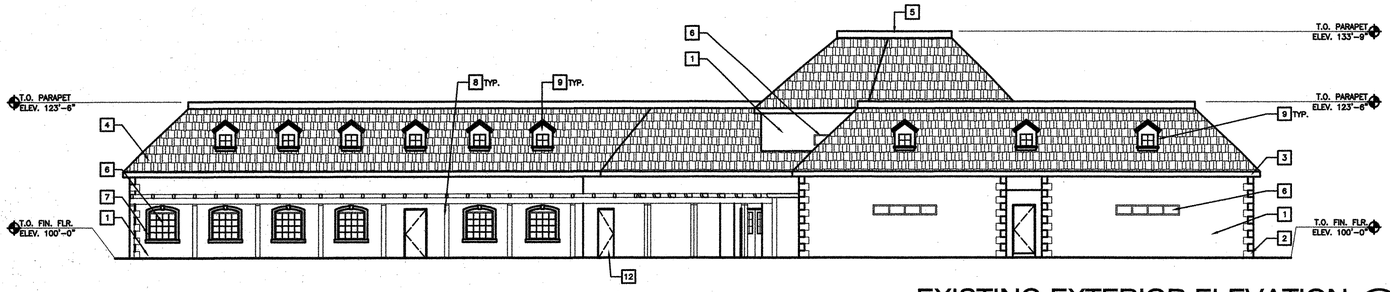
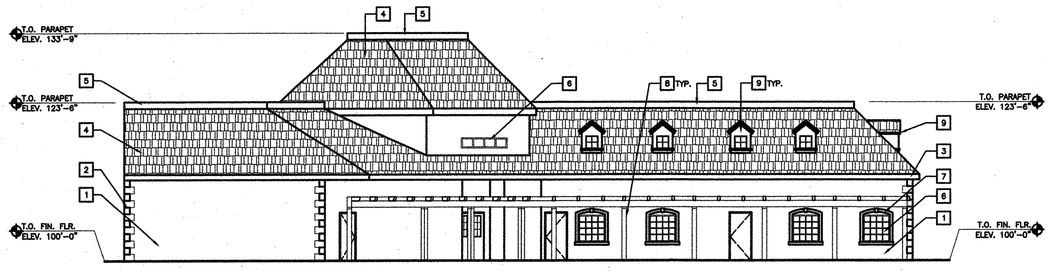
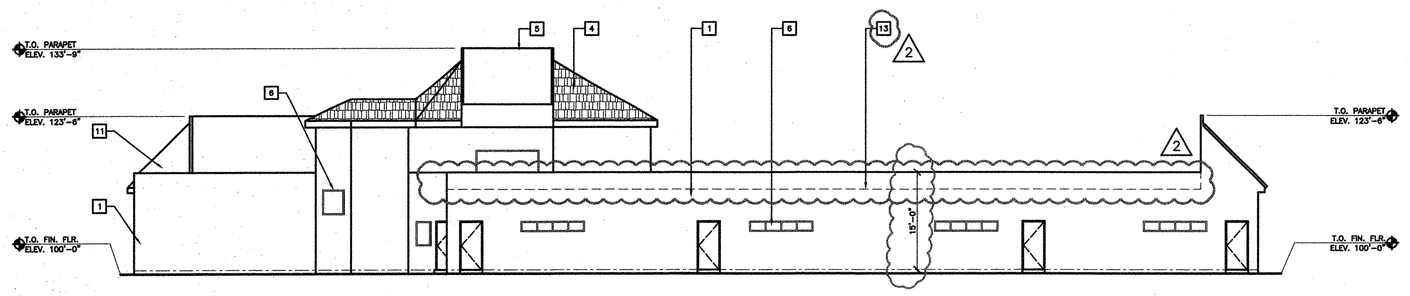


EXISTING EXTERIOR ELEVATION (A)
3/32" = 1'-0"

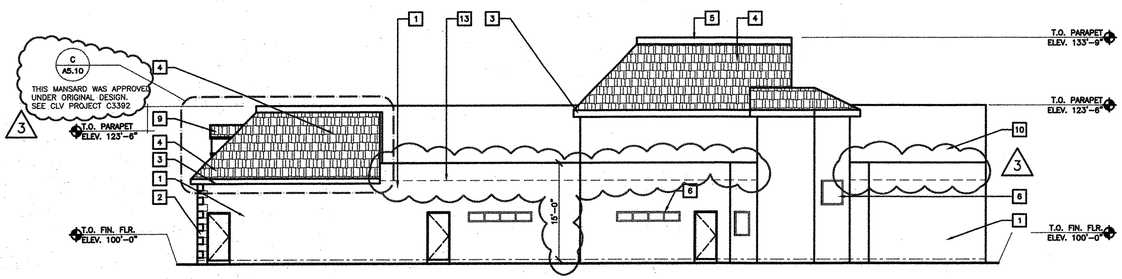


EXISTING EXTERIOR ELEVATION (B)
3/32" = 1'-0"

THE STREET ADDRESS SHALL BE POSTED ON THE BUILDING IN SUCH A POSITION TO BE PLAINLY LEGIBLE FROM THE STREET FRONTING THE PROPERTY. MUST BE ILLUMINATED



EXISTING EXTERIOR ELEVATION (C)
3/32" = 1'-0"



EXISTING EXTERIOR ELEVATION (D)
3/32" = 1'-0"

SHEET NOTES

A. PATCH AND REPAIR EXISTING STUCCO EXTERIOR WALLS WHERE DEMOLTITION OCCURS.

B. ADD/ALT PAINT ALL EXTERIOR WALLS.

KEY NOTES

1. EXISTING STUCCO EXTERIOR WALLS
2. EXISTING QUOINES
3. EXISTING STUCCO FACIA
4. EXISTING CONCRETE TILE
5. EXISTING PARAPET - STUCCO
6. EXISTING ALUMINUM WINDOW
7. EXISTING PREFORMED WINDOW SURROUNDS
8. EXISTING WOOD BEAM COLUMN
9. EXISTING DORMER
10. EXISTING PARAPET BEYOND - STUCCO
11. LINE OF CONCRETE TILE BEYOND
12. NEW DOOR TO FIRE RISER ROOM
13. LINE OF ROOF BEYOND WITH 30" PARAPET

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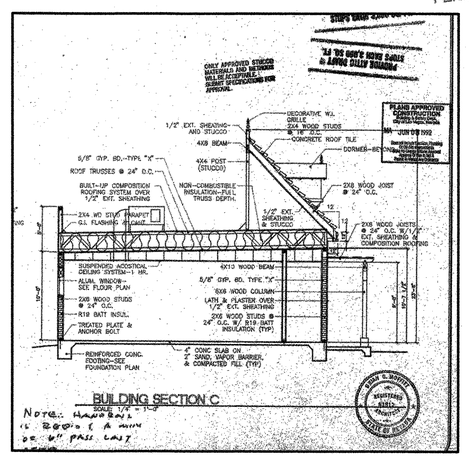

BUILDING SECTION C
SCALE: 1/4" = 1'-0"

SECTION C (C)
1/8" = 1'-0"

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
EXISTING EXTERIOR ELEVATIONS

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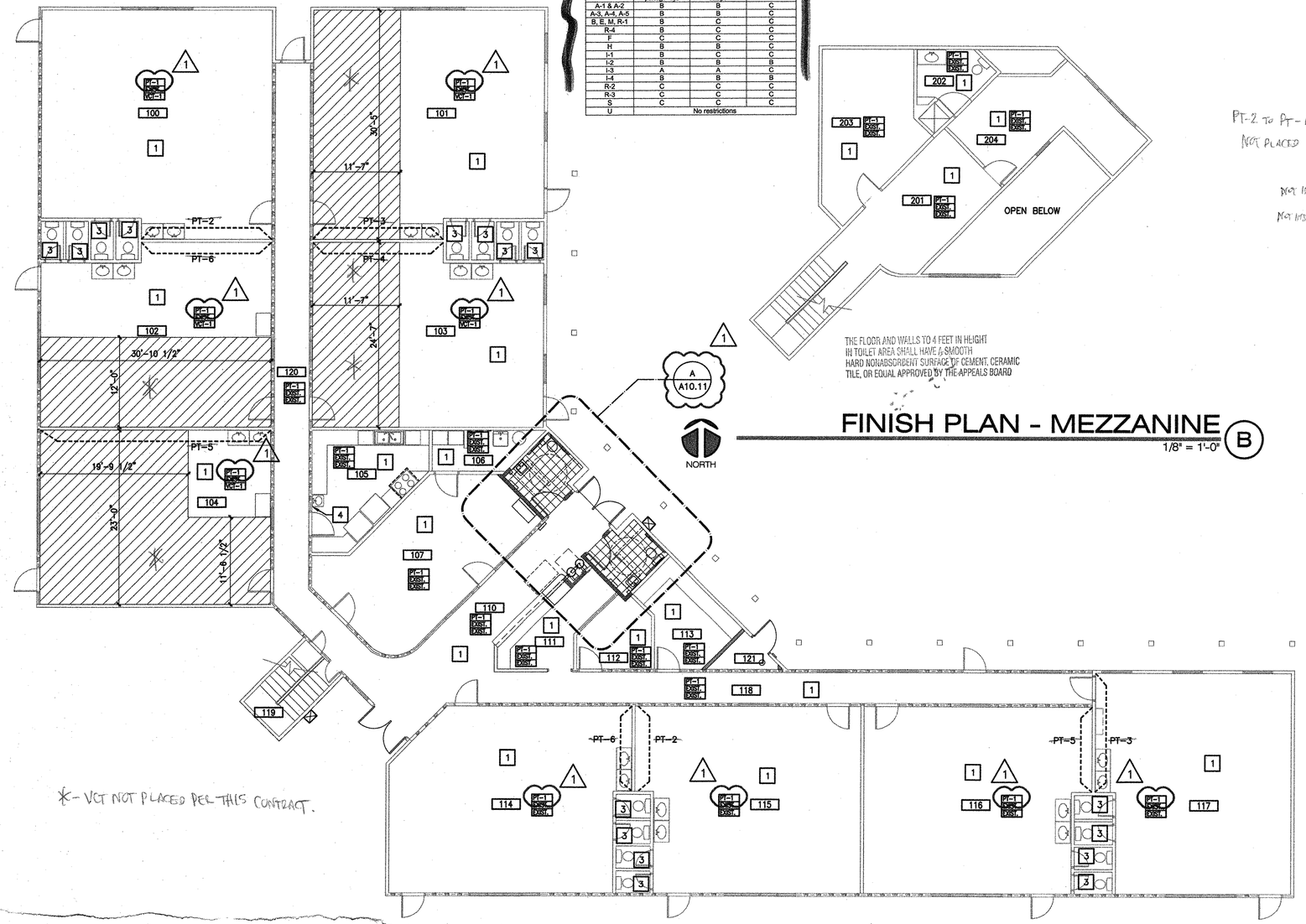
2012 IBC Section 803: Wall and Ceiling Finishes

803.1.1 Interior wall and ceiling finish materials.
Interior wall and ceiling finish materials shall be classified in accordance with ASTM E 84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes.
Class A: Flame spread index 0-25; smoke-developed index 0-450
Class B: Flame spread index 26-75; smoke-developed index 0-450
Class C: Flame spread index 76-200; smoke-developed index 0-450

803.9 Interior finish requirements based on group.
Interior wall and ceiling finish shall have a flame spread index not greater than that specified in Table 803.9 for the group and location designated. Interior wall and ceiling finish materials tested in accordance with NFPA 286 and meeting the acceptance criteria of Section 803.1.2.1 shall be permitted to be used where a Class A classification in accordance with ASTM E 84 or UL 723 is required.

Table 803.9

Group	Sprinklered		
	Interior exit stairways, interior exit ramps and exit passageways	Corridors and enclosure for exit access stairways and exit access ramps	Rooms and enclosed spaces
A-1 & A-2	B	B	C
A-3, A-4, A-5	B	B	C
B, E, M, R-1	B	C	C
R-4	B	C	C
F	C	C	C
H	B	B	C
I-1	B	C	C
I-2	B	B	B
I-3	A	A	C
I-4	B	B	B
R-2	C	C	C
R-3	C	C	C
S	C	C	C
U	No restrictions		



FINISH PLAN - FIRST FLOOR (A)
1/8" = 1'-0"

THE FLOOR AND WALLS TO 4 FEET IN HEIGHT IN TOILET AREA SHALL HAVE A SMOOTH HARD NONABSORBENT SURFACE OF CEMENT, CERAMIC TILE, OR EQUAL APPROVED BY THE APPEALS BOARD

FINISH PLAN - MEZZANINE (B)
1/8" = 1'-0"

Key Notes

1. EXISTING FLOORING TO REMAIN.
2. FILL SUBFLOORING WITH CERAMIC TILE TO MATCH EXISTING. PATCH AND REPAIR EXISTING FLOORING AS REQUIRED.
3. PROVIDE 5'-0" FRP-1 ALL WET WALLS.
4. PROVIDE 5'-0" FRP-1 BEHIND SINK.

Sheet Notes

A. PROTECT ALL EXISTING FINISHES, FURNITURE, EQUIPMENT, ETC. TO REMAIN DURING CONSTRUCTION. REPAIR ANY DAMAGES CAUSED TO EXISTING FINISHES DURING CONSTRUCTION.

B. ALL NEW WALLS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.

C. INSTALL RB-1 IN AREAS WITH NEW VCT UNLESS NOTED OTHERWISE. REPAIR DAMAGED RUBBER BASE WHERE IT OCCURS. INSTALL CB-1 IN AREAS WITH CERAMIC TILE UNLESS NOTED OTHERWISE.

D. EXISTING THRESHOLDS AT ENTRIES SHOULD REMAIN AND BE CLEANED IF IN GOOD CONDITION. REPLACE IF NECESSARY WITH MATCHING THRESHOLD. NOTIFY ARCHITECT IF EXISTING CONDITIONS SHOULD REQUIRE NEW, UNFORESEEN TRANSITION STRIPS.

E. THROUGLY STRIP, CLEAN AND REWAX ALL EXISTING VCT FLOORING TO REMAIN TO MAKE LIKE NEW.

Finish Schedule

PT-2 To PT-6 NOT PLACED

CEILING
ACT-1 ARMSTRONG #1714 SCHOOL ZONE FINE FISSURED, 2 X 4

PAINT
~~PT-1~~ VISTA PAINT, WARM OYSTER
~~PT-2~~ SHERWIN WILLIAMS, SW 9064 BLUESY NOTE
~~PT-3~~ SHERWIN WILLIAMS, SW 6925 LUCKY GREEN
~~PT-4~~ SHERWIN WILLIAMS, SW 6634 COPPER HARBOR
~~PT-5~~ SHERWIN WILLIAMS, SW 6694 GLAD YELLOW
~~PT-6~~ SHERWIN WILLIAMS, SW 6608 RAVE RED

VINYL COMPOSITION TILE
Not Installed ~~VCT-1~~ ARMSTRONG, EXCELON COMPANION SQUARE, 51983 PARTY WHITE

RUBBER BASE
Not Installed ~~RB-1~~ TO MATCH EXISTING

CERAMIC TILE
CT-1 DALTILE, SEMI-GLOSS, 0191 ARCTIC WHITE, 4-1/4" X 4-1/4" (FIELD)
CT-2 DALTILE, SEMI-GLOSS, 0DM1 VERMILLION, 4-1/4" X 4-1/4" (10% RANDOM)
CT-3 DALTILE, SEMI-GLOSS, DM14 COBALT, 4-1/4" X 4-1/4" (10% RANDOM)
CT-4 DALTILE, SEMI-GLOSS, SUNFLOWER DH50, 4-1/4" X 4-1/4" (10% RANDOM)
CT-5 DALTILE, PARKWAY, PK95 CREAM, 12"X12"

CERAMIC BASE
CB-1 DALTILE, SEMI-GLOSS, A-3401, 0191 ARCTIC WHITE, 4-1/4" X 4-1/4"

GROUT
GT-1 LATICRETE, 24 NATURAL GREY

FIBERGLASS REINFORCED PANELS
FRP-1 MARLITE P-100 WHITE

MATERIAL TRANSITIONS
TS-1 TO MATCH EXISTING

Finish Legend

NEW CERAMIC TILE, (CT-5). IN AREAS WITH (CT-5) USE BASE (CB-1).

NEW VCT FLOORING, (VCT-1)

PAINT / BASE / FLOOR — ROOM FINISH SYMBOL

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

RECEIVED
APR 06 '16 63325
CITY OF LAS VEGAS

* - VCT NOT PLACED PER THIS CONTRACT.

AS BUILT

CITY OF LAS VEGAS PUBLIC WORKS

REVISIONS
3/14/16 PLAN COMMENTS

ARCHITECT
SH ARCHITECTURE
7250 Peak Drive Suite 216 Las Vegas Nevada 89128
office 702.363.2222 www.shearchitecture.com

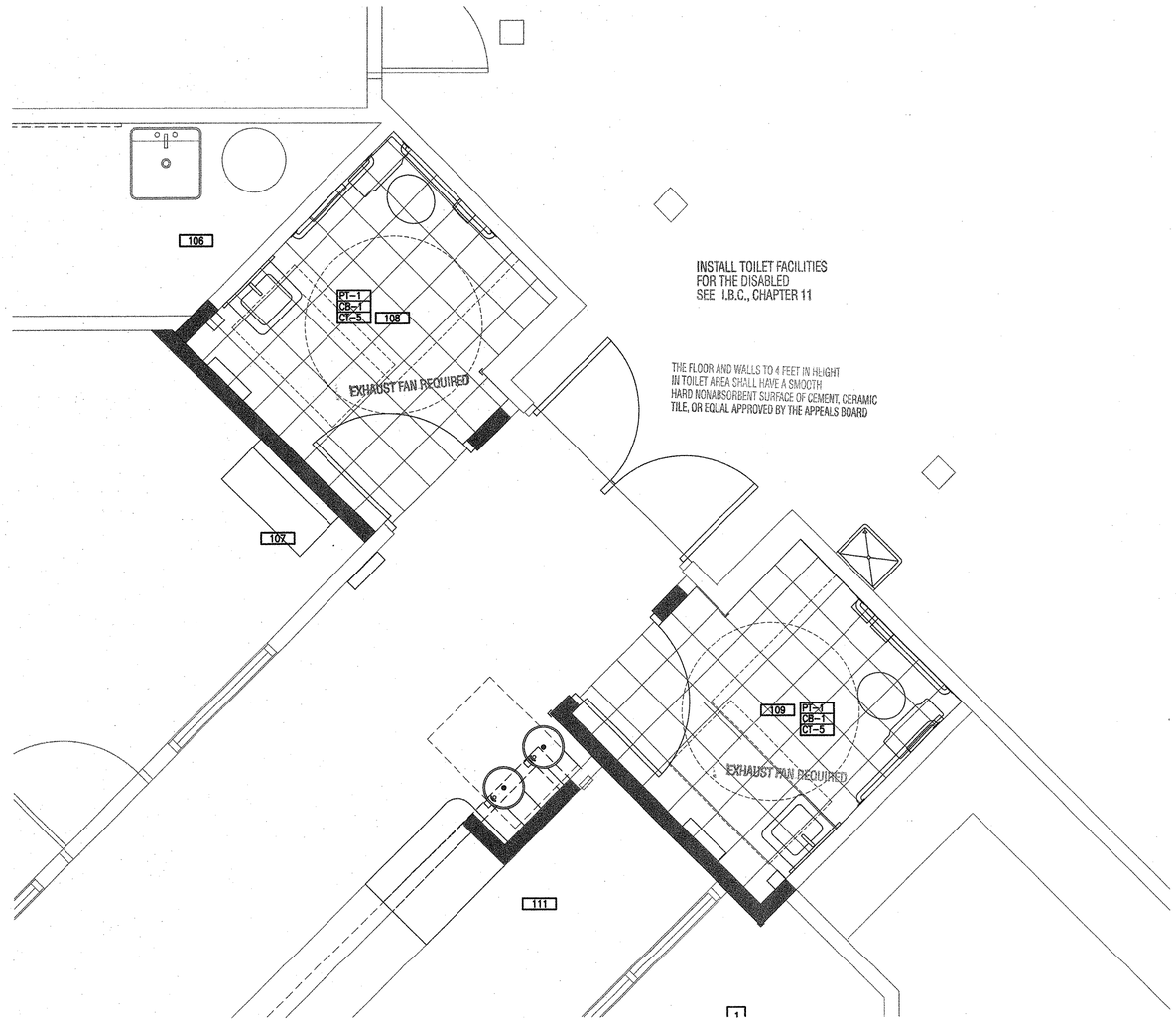
DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
FINISH PLANS

STAMP
JOHN A. SAWDON — Registered Professional Engineer — No. 9888 — Michigan — State of Nevada
03/14/16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN CJT
FILE PLANS APPROVED CONSTRUCTION
DATE Building & Safety Dept. City of Las Vegas, Nevada
SCALE JBK JUN 02 2016
BID NO Does Not Include Electrical, Plumbing, Mechanical Structural or Civil Systems
CLV DWG NO Approval Does Not Make No Changes Without Additional Plans
HANSEN NO Not a Permit to Violate Any Ordinance
60316
SHT NO A10.10

DRAWINGS AS INSTRUMENTS OF SERVICE ARE, AND SHALL REMAIN, THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE SEAL OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS AND USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS ARE NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT © LIC #32126



ENLARGED FINISH PLAN - FIRST FLOOR (A)

1/2" = 1'-0"

NORTH

Finish Legend

NEW CERAMIC TILE, (CT-5). IN AREAS WITH (CT-5) USE BASE (CB-1).

NEW VCT FLOORING, (VCT-1)

PAINT / BASE / FLOOR — ROOM FINISH SYMBOL

Sheet Notes

A. PROTECT ALL EXISTING FINISHES, FURNITURE, EQUIPMENT, ETC. TO REMAIN DURING CONSTRUCTION. REPAIR ANY DAMAGES CAUSED TO EXISTING FINISHES DURING CONSTRUCTION.

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E. THROUGLY STRIP, CLEAN AND REWAX ALL EXISTING VCT FLOORING TO REMAIN TO MAKE LIKE NEW.

Finish Schedule

CEILING
- ACT-1 — ARMSTRONG #1714 SCHOOL ZONE FINE FISSURED, 2 X 4

PAINT
- PT-1 — VISTA PAINT, WARM OYSTER
- PT-2 — SHERWIN WILLIAMS, SW 9064 BLUESY NOTE
- PT-3 — SHERWIN WILLIAMS, SW 6925 LUCKY GREEN
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VINYL COMPOSITION TILE
- VCT-1 — ARMSTRONG, EXCELON COMPANION SQUARE, 51983 PARTY WHITE

RUBBER BASE
- RB-1 — TO MATCH EXISTING

CERAMIC TILE
- CT-1 — DALTILE, SEMI-GLOSS, 0191 ARCTIC WHITE, 4-1/4" X 4-1/4" (FIELD)
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GROUT
- GT-1 — LATICRETE, 24 NATURAL GREY

FIBERGLASS REINFORCED PANELS
- FRP-1 — MARLITE P-100 WHITE

MATERIAL TRANSITIONS
- TS-1 — TO MATCH EXISTING

Key Notes

1. EXISTING FLOORING TO REMAIN.
2. FILL SUBFLOORING WITH CERAMIC TILE TO MATCH EXISTING. PATCH AND REPAIR EXISTING FLOORING AS REQUIRED.
3. PROVIDE 5'-0" FRP-1 ALL WET WALLS.
4. PROVIDE 5'-0" FRP-1 BEHIND SINK.

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
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110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
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116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

AS BUILT

CITY OF LAS VEGAS NEVADA

REVISIONS

ARCHITECT
SH ARCHITECTURE
7251 Amigo Street, Suite 120 Las Vegas, NV 89119
office 702 365 2222 fax 702 365 2228
www.shoparchitecture.com

PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
ENLARGED FINISH PLAN

STAMP
JOHN A. SAWYER
REGISTERED ARCHITECT
No. 6035
STATE OF NEVADA
FEB 08 2016

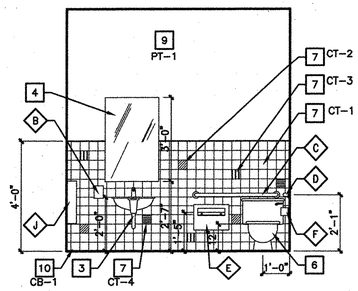
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 382-0165
TDD: (702) 385-0555

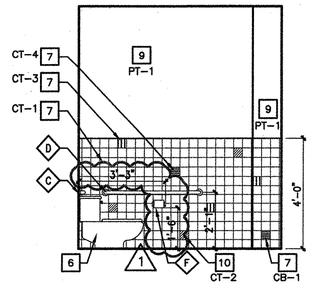
PLANS FOR PERMIT
CONSTRUCTION

DRAWN: Building & Safety Dept. City Of Las Vegas, Nevada
FILE: JRK JUN 02 2016
DATE: 02/08/2016
SCALE: Does Not Include Electrical, Plumbing, Mechanical Structural or Off-Site Improvements. Make No Changes Without Approval From The Building Official. Not a Permit Until Any Ordinance
BID NO: 5160316AM
CLV DWG NO: 521-301
MANSEN NO: 60316
SHT NO: A10.11

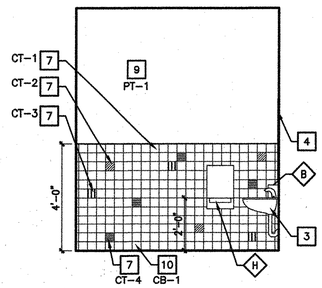
DRAWINGS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL. MISC. STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS ANY USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS PREPARED BY THE CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT AND ARE NOT TO BE LOANED, COPIED OR OTHERWISE DISPOSED OF WITHOUT THE WRITTEN CONSENT OF THE CITY OF LAS VEGAS. THE CONTRACTOR SHALL RETURN ALL DRAWINGS AND SPECIFICATIONS TO THE CITY OF LAS VEGAS UPON COMPLETION OF THE WORK. THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE USED BY THE OWNER OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT WITHOUT THE WRITTEN AGREEMENT OF THE CITY OF LAS VEGAS. THE CONTRACTOR SHALL RETURN ALL DRAWINGS AND SPECIFICATIONS TO THE CITY OF LAS VEGAS UPON COMPLETION OF THE WORK. THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE USED BY THE OWNER OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT WITHOUT THE WRITTEN AGREEMENT OF THE CITY OF LAS VEGAS. THE CONTRACTOR SHALL RETURN ALL DRAWINGS AND SPECIFICATIONS TO THE CITY OF LAS VEGAS UPON COMPLETION OF THE WORK. THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE USED BY THE OWNER OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT WITHOUT THE WRITTEN AGREEMENT OF THE CITY OF LAS VEGAS. THE CONTRACTOR SHALL RETURN ALL DRAWINGS AND SPECIFICATIONS TO THE CITY OF LAS VEGAS UPON COMPLETION OF THE WORK. THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE USED BY THE OWNER OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT WITHOUT THE WRITTEN AGREEMENT OF THE CITY OF LAS VEGAS. THE CONTRACTOR SHALL RETURN ALL DRAWINGS AND SPECIFICATIONS TO THE CITY OF LAS VEGAS UPON COMPLETION OF THE WORK.



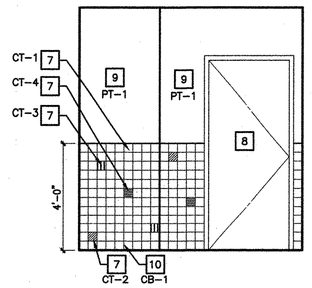
ELEVATION 1
3/8" = 1'-0"



ELEVATION 2
3/8" = 1'-0"



ELEVATION 3
3/8" = 1'-0"



ELEVATION 4
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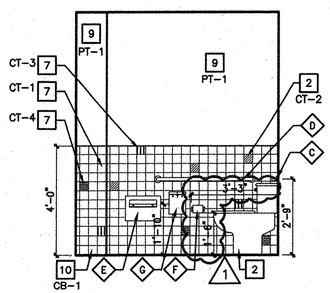

ELEVATION 5
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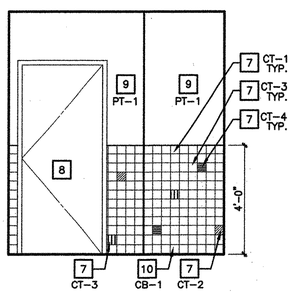
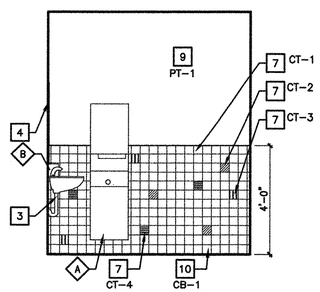
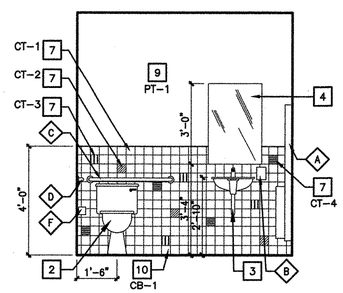


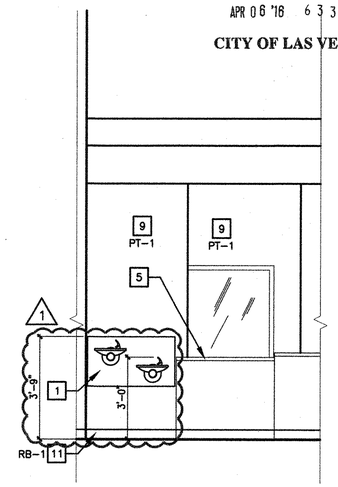
ELEVATION 6
3/8" = 1'-0"



ELEVATION 7
3/8" = 1'-0"



ELEVATION 8
3/8" = 1'-0"



ELEVATION 9
3/8" = 1'-0"

SHEET NOTES

A. SEE SHEET G1.00 FOR ALL ACCESSORY DIMENSIONS AND ADA COMPLIANCE.

B. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES - TYPICAL FOR MOUNTING AND WITH ADEQUATE SUPPORT TO MEET CODE REQUIREMENTS

C. INSULATE ALL LAVATORY AND HAND SINK EXPOSED DRAIN AND/OR HOT WATER PIPING BELOW FIXTURES PER ADA STANDARDS.

D. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START

E. ALL INSTALLATION TO COMPLY WITH THE LATEST EDITION OF THE TCA HANDBOOK

F. FOR THE CHILDREN'S RESTROOM, ALL MOUNTING HEIGHTS AND CLEARANCES FOR PLUMBING FIXTURES AND ACCESSORIES SHALL MEET THE REQUIREMENTS OF ADAAG APPENDIX A4.16.7

KEY NOTES

1. INSTALL NEW ADA DUAL DRINKING FOUNTAIN.
2. INSTALL NEW ADA FLOOR MOUNTED TOILET.
3. INSTALL NEW ADA LAVATORY.
4. INSTALL PLATE GLASS MIRROR W/ 1/2" ALUMINUM FRAME.
5. ADD/ALT MODIFY EXISTING COUNTER TO PROVIDE 36" HIGH ADA ACCESSIBLE COUNTER.
6. INSTALL NEW ADA FLOOR MOUNTED CHILDREN'S TOILET.
7. CERAMIC TILE, AS SCHEDULED.
8. RELOCATED EXISTING DOOR AND FRAME.
9. PAINTED WALL, AS SCHEDULED.
10. CERAMIC TILE BASE, AS SCHEDULED.
11. RUBBER BASE, AS SCHEDULED.

ACCESSORY SCHEDULE

#	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING TYPE	MOUNTING HT.	REMARKS
A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	TBD	RECESSED	44"	MOUNTING HEIGHT TO BE FROM FINISHED FLOOR TO OPENING
B	SOAP DISPENSER	BOBRICK	TBD	SURFACE	33"	
C	GRAB - BAR36	BOBRICK	TBD	SURFACE	33"	MOUNTING HEIGHT AT 25" IN CHILDRENS RESTROOM PER ADAAG
D	GRAB - BAR42	BOBRICK	TBD	SURFACE	33"	MOUNTING HEIGHT AT 25" IN CHILDRENS RESTROOM PER ADAAG
E	SEAT-COVER DISPENSER	BOBRICK	TBD	SURFACE	36"	MOUNTING HEIGHT AT 17" IN CHILDRENS RESTROOM PER ADAAG
F	TOILET TISSUE DISPENSER	BOBRICK	TBD	SURFACE	22"	MOUNTING HEIGHT AT 17" IN CHILDRENS RESTROOM PER ADAAG
G	SANITARY NAPKIN DISPOSAL	BOBRICK	TBD	SURFACE	22"	
H	CHILDREN'S PAPER TOWEL DISPENSER	BOBRICK	TBD	SURFACE	24"	MOUNTING HEIGHT AT 24" FROM FINISHED FLOOR TO OPENING

A. MOUNTING HEIGHT TO BE FROM FINISHED FLOOR TO THE CENTERLINE OF UNIT, U.N.O.

INSTALL TOILET FACILITIES FOR THE DISABLED SEE I.B.C., CHAPTER 11

THE FLOOR AND WALLS TO 4 FEET IN HEIGHT IN TOILET AREA SHALL HAVE A SMOOTH HARD NONABSORBENT SURFACE OF CEMENT, CERAMIC TILE, OR EQUAL APPROVED BY THE APPEALS BOARD

RECEIVED
APR 06 '18 63325
CITY OF LAS VEGAS

AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
1 3/14/16PLAN COMMENTS

ARCHITECT
SH ARCHITECTURE
7250 Peak Drive Suite 216 Las Vegas Nevada 89128
office 702.363.2222 www.sharchitecture.com

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
INTERIOR ELEVATIONS

STAMP
JOHN A. SAWLSON
Registered
No. 4938
ARCHITECT
STATE OF NEVADA
03/14/16

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN CJT

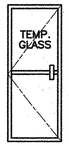
PLANS APPROVED
CONSTRUCTION
DATE Division of Fire & Safety/Dept.
City of Las Vegas, Nevada
JUN 02 2016

SCALE 1/8"
BID NO 15-60316 JH
Does Not Include Electrical, Plumbing, Mechanical, Structural or Similar Improvements. Approval of This Change Without Approval Plans Is Not Permitted to Violate Any Ordinance.
60316

SHT NO A10.30

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CLIENT WHO IS UTILIZED ONLY FOR ACCEPTING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT N.R.S. 623.305 ALL PRINTED COPIES OF THE DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED UNOFFICIAL UNLESS SIGNED BY THE ARCHITECT OF RECORD. ANY USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPES OF

DOOR TYPES



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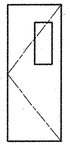
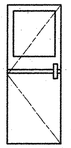


TYPE "B"



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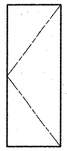

TYPE "D"

HARDWARE SETS

SET	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
01	6 EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
	1 EA	KEYED REMOVABLE MULLION	KR4954-STAB-MT54	SP28	VON
	1 EA	PANIC HARDWARE	XP-98-EO	626	VON
	1 EA	PANIC HARDWARE	XP-98-NL-OP-110WD-US26D	626	VON
	1 EA	SFIC MORTISE CYL.	80-110-USE WITH KR MULLION	626	SCH
	1 EA	SFIC RIM CYLINDER	80-116	626	SCH
	2 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	2 EA	90 DEG OFFSET PULL	8190HD 10"L	626	IVE
	2 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	2 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	RAIN DRIP	142A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	328AA	AA	ZER
	1 EA	MULLION SEAL	8780N	N	ZER
	2 EA	DOOR SWEET	39A	A	ZER
	1 EA	THRESHOLD	613 OR PER DETAIL	AL	ZER
02	6 EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
	1 EA	KEYED REMOVABLE MULLION	KR4854-B-STAB	SP28	VON
	1 EA	PANIC HARDWARE	XP-98-EO	626	VON
	1 EA	PANIC HARDWARE	XP-98-NL-OP-110WD-US26D	626	VON
	1 EA	SFIC MORTISE CYL.	80-110	626	SCH
	1 EA	SFIC RIM CYLINDER	80-116	626	SCH
	2 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	ELECTRIC STRIKE	6300 FSE	630	VON
	2 EA	90 DEG OFFSET PULL	8190HD 10"L	626	IVE
	2 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	MULLION SEAL	8780N	N	ZER
	1 EA	THRESHOLD	613 OR PER DETAIL	AL	ZER
	1 EA	MULLION MOUNT KEYPAD	KP212		SCE
	1 EA	HORN	1010-1	WHT	SCE
	1 EA	PUSH BUTTON	621ALRDEX NS	629	SCE
	1 EA	DESK MOUNT BUTTON	660-PB	628	SCE
	1 EA	POWER SUPPLY	PS902	LGR	VON
03	3 EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
	1 EA	STOREFROOM LOCK	9K37 D 16C	626	BES
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	LOCK GUARD	LG1	630	IVE
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	RAIN DRIP	142A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	382AA	AA	ZER
	1 EA	DOOR SWEEP	39A REUSE BALANCE OF DOOR, FRAME AND HARDWARE	A	ZER
04	1 EA	CONT. HINGE	157XY	628	IVE
	1 EA	FIRE EXIT HARDWARE	XP-98-EO-F	626	VON
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	FLOOR STOP	FS444	626	IVE
	1 EA	RAIN DRIP	142A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	328AA	AA	ZER
	1 EA	DOOR SWEEP	39A	A	ZER
	1 EA	FILLER PLATE	DOOR STRIKE FILLER PLATE-EF-161 -AS REQUIRED	600	DON
	1 EA	FILLER PLATE	DOOR STRIKE FILLER PLATE HF-45 -AS REQUIRED	600	DON
	1 EA	FILLER PLATE	FRAME STRIKE FILLER PLATE FS-260 -AS REQUIRED	600	DON
	1 EA	FILLER PLATE	FRAME STRIKE FILLER PLATE-FF45 -AS REQUIRED	600	DON
	1 EA	HINGE GUARD	973AA	GRY	ZER
05	3 EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
	1 EA	PANIC HARDWARE	XP-98-L-07	626	VON
	1 EA	SFIC RIM CYLINDER	80-116	626	SCH
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	RAIN DRIP	142A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	328AA	AA	ZER
	1 EA	DOOR SWEEP	39A REUSE BALANCE OF DOOR,FRAME AND HARDWARE	A	ZER
06	1 EA	SURFACE CLOSER	8400 10"X2" LDW B-CS	689	LCN
	1 EA	KICK PLATE	142A-OMIT WHERE SHELTERED	630	IVE
	1 EA	RAIN DRIP	328AA	AL	ZER
	1 EA	GASKETING	39A	AA	ZER
	1 EA	DOOR SWEEP	REUSE BALANCE OF DOOR, FRAME AND HARDWARE REUSE EXISTING PANIC HARDWARE	A	ZER
07	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	STOREROOM LOCK	9K37 D 16C	626	BES
	1 EA	PERMANANET CORE	MATCH CITY STANDARDS	626	BES
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	IVE
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV	630	IVE
			REUSE BALANCE OF DOOR, FRAME AND HARDWARE		
08	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	CLASSROOM LOCKSET	9K37R 16C	626	BES
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV REUSE BALANCE OF DOOR, FRAME AND HARDWARE	630	IVE
10	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	PASSAGE SET	9K30N 16C	626	SCH
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	689	LCN
	1 EA	WALL STOP	WS406-407CCV REUSE BALANCE OF DOOR, FRAME AND HARDWARE	630 GRY	IVE IVE
11	REUSE EXISTING DOORS, FRAMES AND HARDWARE				
12	1 EA	PANIC HARDWARE	XP-98-L-07-WH	626	VON
	1 EA	SFIC RIM CYLINDER	80-116	626	SCH
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	WELDABLE GATE BOX, PIVOTS AND CLOSER BY GATE MANUFACTURER				
13	1 EA	PANIC HARDWARE	XP-98-EO-WH	626	VON
	WELDABLE GATE BOX, PIVOTS AND CLOSER BY GATE MANUFACTURER				
14	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV	630	IVE
	1 EA	GASKETING	188S-BK	S-BK	ZER
	1 EA	HINGE GUARD	973AA	GRY	ZER
	1 EA	HINGE GUARD	974AA REUSE BALANCE OF DOOR, FRAME AND HARDWARE	GRY	ZER
15	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	STOREROOM LOCK	9K37 D 16C	626	BES
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	SURFACE CLOSER	4040 XP RW/PA	689	LCN
	1 EA	KICK PLATE	840 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV	630	IVE
	1 EA	GASKETING	188S-BK REUSE BALANCE OF DOOR, FRAME AND HARDWARE	S-BK	ZER
16	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV	630	IVE
	1 EA	GASKETING	188S-BK REUSE BALANCE OF DOOR, FRAME AND HARDWARE	S-BK	ZER
17	1 EA	CONT. HINGE	157XY	628	IVE
	1 EA	FIRE EXIT HARDWARE	XP-98-EO-F	626	SCH
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	FLOOR STOP	FS444	626	IVE
	1 EA	RAIN DRIP	12A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	328AA	AA	ZER
	1 EA	DOOR SWEEP	39A	A	ZER
	1 EA	FILLER PLATE	DOOR STRIKE FILLER PLATE EF-161AS REQUIRED	600	DON
	1 EA	FILLER PLATE	DOOR STRIKE FILLER PLATE HF-45 AS REQUIRED	600	DON
	1 EA	FILLER PLATE	FRAME STRIKE FILLER PLATE FS-260 AS REQUIRED	600	DON
	1 EA	FILLER PLATE	FRAME STRIKE FILLER PLATE FF45 AS REQUIRED	600	DON
	1 EA	HINGE GUARD	973AA REUSE BALANCE OF DOOR, FRAME AND HARDWARE	GRAY	ZER

PANIC HARDWARE REQUIRED

DOOR SCHEDULE

NO.	TYP.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	THICK	GLASS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL JAMB	FRAME DETAIL SILL	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HDWR SET	REMARKS
100	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
100A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	1	--	--	--	--	--	--	--	04	EXISTING
100B	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
100C	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
101	B	3'-0"	7'-0"	1-3/4"	1/4"	SWCD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
101A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	1	--	--	--	--	--	--	--	04	EXISTING
101B	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
101C	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
102	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
102A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	1	--	--	--	--	--	--	--	17	EXISTING
102B	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
102C	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
103	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
103A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	1	--	--	--	--	--	--	--	04	EXISTING
103B	D	2'-4"	7'-0"	1-3/4"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
103C	D	2'-4"	7'-0"	1-3/4"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
104	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
104A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	1	--	--	--	--	--	--	--	17	EXISTING
105	D	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	15	EXISTING
106	D	3'-0"	7'-0"	1-3/4"	--	SCWD	PAINTED	--	--	--	--	--	--	--	20	15	EXISTING
107	D	3'-0"	7'-0"	1-3/4"	1/4	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
107A	B	3'-0"	7'-0"	1-3/4"	1/4	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
108	D	3'-0"	7'-0"	1-3/4"	--	SCWD	PAINTED	--	--	--	--	--	--	--	20	16	EXISTING
109	D	3'-0"	7'-0"	1-3/4"	--	SCWD	PAINTED	--	--	--	--	--	--	--	20	16	EXISTING
110	C	6'-0"	7'-0"	1-3/4"	--	HM	PAINTED	1	--	--	--	--	--	--	--	02	REPLACE DOORS, REUSE EXISTING FRAMES
110A	C	6'-0"	7'-0"	1-3/4"	--	HM	PAINTED	1	--	--	--	--	--	--	--	01	REPLACE DOORS, REUSE EXISTING FRAMES
112	D	3'-0"	7'-0"	1-3/4"	--	SWCD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
113	B	3'-0"	7'-0"	1-3/4"	--	SWCD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
114	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
114A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	--	--	--	--	--	--	--	--	04	EXISTING
114B	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
114C	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
115	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
115A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	--	--	--	--	--	--	--	--	04	EXISTING
115B	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
115C	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
116	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	14	EXISTING
116A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	--	--	--	--	--	--	--	--	04	EXISTING
116B	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
116C	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
117	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	--	--	--	--	--	--	--	20	10	EXISTING
117A	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	--	--	--	--	--	--	--	--	04	EXISTING
117B	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
117C	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	11	EXISTING
118	D	3'-0"	7'-0"	1-3/4"	--	HM	PAINTED	--	--	--	--	--	--	--	--	05	EXISTING
119	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	08	EXISTING
120	D	2'-4"	7'-0"	1-3/8"	--	HCWD	PAINTED	--	--	--	--	--	--	--	--	07	EXISTING
121	D	2'-4"	7'-0"	1-3/8"	--	HM	PAINTED	1	--	--	--	--	--	--	--	07	NEW FIRE RISER DOOR
120A	D	3'-0"	7'-0"	1-3/4"	--	SCWD	PAINTED	--	--	--	--	--	--	--	--	06	EXISTING
202	D	3'-0"	7'-0"	1-3/4"	--	SCWD	PAINTED	--	--	--	--	--	--	--	20	16	EXISTING
203	D	3'-0"	7'-0"	1-3/4"	--	SCWD	PAINTED	--	--	--	--	--	--	--	--	07	EXISTING
204	D	3'-0"	7'-0"	1-3/4"	--	SCWD	PAINTED	--	--	--	--	--	--	--	--	08	EXISTING
G100	--	4'-0"	5'-0"	2"	--	STL	STL	--	--	--	--	--	--	--	--	13	SEE SHEET AS1.10 FOR DOOR LOCATION
G101	--	4'-0"	5'-0"	2"	--	STL	STL	--	--	--	--	--	--	--	--	12	SEE SHEET AS1.10 FOR DOOR LOCATION
G102	--	4'-0"	5'-0"	2"	--	STL	STL	--	--	--	--	--	--	--	--	13	SEE SHEET AS1.10 FOR DOOR LOCATION
G103	--	4'-0"	5'-0"	2"	--	STL	STL	--	--	--	--	--	--	--	--	12	SEE SHEET AS1.10 FOR DOOR LOCATION

A. EXISTING FRAMES AND DOORS TO BE RETROFITTED WITH NEW HARDWARE. FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO ORDERING HARDWARE. FILL EXISTING HARDWARE CUT OUTS NOT BEING USED BY THE NEW HARDWARE. SEE DETAIL 6 ON SHEET AG1.20 FOR DOOR HARDWARE MOUNTING HEIGHTS.

B. CUT AND WELD EXISTING STEEL FRAMES CURRENTLY PREPARED WITH 2-$\frac{1}{2}$" HEIGHT STRIKES. CUT AN APPROX. 8" SECTION FROM THE STRIKE JAMB AND WELD IN A REINFORCED SECTION TO ACCOMODATE SPECIFIED HARDWARE'S STRIKE.

C. STEEL DOORS: WELD, FILL, PATCH, BONDO, SAND, AND REPAINT EXISTING DOOR HARDWARE PREPARATIONS NOT BEING USED BY NEW HARDWARE, LEAVE SURFACES SMOOTH AND INVISIBLE BEFORE INSTALLING NEW HARDWARE.

D. WOOD DOORS: GLUE IN SOLID WOOD BLOCK FILLERS TO FILL CUT OUTS IN EXISTING WOOD DOORS, SAND SURFACES SMOOTH. ALTERNATIVELY, USE AN APPROVED EPOXY-BASED WOOD FILLER PRODUCT, SUBMIT PRODUCT DATA FOR APPROVAL.

E. VERIFY FIRE LABEL IS VISIBLE ON EXISTING FIRE RATED DOORS AND FRAMES. REPLACE DOORS AND FRAMES IF LABEL IS NOT VISIBLE.

F. NOTIFY ARCHITECT OF ANY CONFLICTS WITH NEW HARDWARE AND EXISTING CONDITIONS BEFORE ORDERING MATERIAL.

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REVISIONS
3/14/16PLAN COMMENTS
4/12/16PLAN COMMENTS

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SH ARCHITECTURE
7250 Peak Drive Suite 216 Las Vegas Nevada 89128
office 702.363.2222
www.sh-architecture.com

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
DOOR SCHEDULE

STAMP
TROY A. SAWDON
No. 4058
REGISTERED ARCHITECT
STATE OF NEVADA
04/12/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4946
TDD: (702) 386-9108

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PERMIT NO 60316
SHT NO A11.10

CITY OF LAS VEGAS
PLANS APPROVED
CONSTRUCTION
Building & Safety Dept.
City of Las Vegas, Nevada
02/09/2016

Does Not Include Electrical, Plumbing, Mechanical Structural or Off-Site Improvements. Make No Changes Without Approval. Plans is Not a Permit to Violate Any Ordinance.

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT. NO STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS REVISED BY THE CLIENT MAY BE UTILIZED ONLY FOR ACCEPTING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT. A.I.A. ©2010

GENERAL STRUCTURAL NOTES

GENERAL REQUIREMENTS

DRAWINGS
THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKERS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

MISCELLANEOUS ITEMS
CALCULATION AND DESIGN OF MISCELLANEOUS NON-STRUCTURAL ITEMS, SUCH AS STAIRS, RAILINGS, NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS FLOOR AND ROOF TRUSSES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.

CONSTRUCTION MEANS AND METHODS
THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORM-WORK, ETC... AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY (INCLUDING UTILITIES) DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE PLACED ON THE STRUCTURE SUCH THAT THE DESIGN LOADS ARE NOT EXCEEDED.

DIMENSIONS, INSERTS AND OPENINGS
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED BEFORE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WHERE DISCREPENCIES OCCUR IN THESE DRAWINGS, NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STUCTURAL NOTES AND TYPICAL DETAILS.

CONTRACTOR SHALL ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

STANDARDS
WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE EDITION REFERENCED IN THE GOVERNING BUILDING CODE.

TYPICAL DETAILS AND NOTES
TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

SHOP DRAWINGS
SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENEREAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. ENGINEERING SYSTEM SOLUTIONS SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. FIVE WORKING DAYS SHALL BE ALLOWED FOR THE ENGINEER'S REVIEW. CONTRACTOR SHALL PROVIDE A COPY OF EACH SUBMITTAL FOR ENGINEERING SYSTEM SOLUTIONS RECORDS.

SHOP DRAWINGS SHALL REFERENCE DATE AND DELTA (IF ANY) OF CONTRACT DRAWINGS.

MOLD
MOLD CONCERNS AND PREVENTION IS OUT OF ENGINEERING SYSTEM SOLUTIONS SCOPE OF SERVICES. ENGINEERING SYSTEM SOLUTIONS SHALL BE HELD HARMLESS, TO THE EXTENT OF THE LAW, FOR ALL MOLD PREVENTION AND MOLD RELATED CONCERNS.

BASIS FOR DESIGN

GOVERNING BUILDING CODE	2012 IBC
GRAVITY	
ROOF DEAD	23 PSF
ROOF LIVE	20 PSF
FLOOR DEAD	30 PSF
FLOOR LIVE	40 PSF
EGRESS LIVE	100 PSF
*LIVE LOADS REDUCED AS PERMITTED BY BUILDING CODE	
RISK CATEGORY	
RISK CATEGORY	II
SEISMIC	
ANALYSIS PROCEDURE	EQUIVALENT LATERAL-FORCE PROCEDURE
SEISMIC FORCE RESISTING SYSTEM	WOOD SHEAR WALL
R	6.5
I	1.0
Ss	0.478
S1	0.163
SDS (SHORT PERIOD)	0.451
SD1 (1-SECOND PERIOD)	0.233
SITE CLASS	D
SEISMIC DESIGN CATEGORY	D
Cs	0.069
WIND	
BASIC WIND SPEED	115 MPH
EXPOSURE	C
GCPI	± 0.18
DEFLECTION LIMITS	
WOOD FLOOR ELEMENTS: TRUSSES AND JOISTS	
TOTAL LOAD	L/480
LIVE LOAD	L/600
WOOD ROOF ELEMENTS: TRUSSES AND JOISTS	
TOTAL LOAD	L/240
LIVE LOAD	L/360
SOILS	
SOIL BEARING PRESSURE (D+L+Lr)	1800 PSF
SOIL BEARING PRESSURE x 1.33 (+W OR +E)	2400 PSF
MINIMUM EMBEDMENT DEPTH	18 INCHES
PASSIVE BEARING PRESSURE	340 PCF
ACTIVE BEARING PRESSURE	40 PCF
COEFF OF FRICTION	0.36

FOUNDATION

FOUNDATION PREPARATION
AS A MINIMUM THE EXISTING SUBBASE SHALL BE FREE OF COBBLES LARGER THAN 12" IN DIAMETER AND SILT OR CLAY DEPOSITS.

EXISTING SUBBASE SHALL BE SCARIFIED FOR 12" DEPTH AND COMPACTED (95% DRY DENSITY), AND 8" OF WELL-GRADED 3" MINUS GRANULAR MATERIAL BE PLACED ON EXISTING COMPACTED SUBBASE AND COMPACTED (95% DRY DENSITY).

DESIGN RECOMMENDATIONS
FIRM: GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC; REPORT NO.: 20153743E1; DATE: SEP 30, 2015

FOOTING EMBEDMENT
ALL FOOTINGS SHALL EXTEND BELOW GRADE THE MINIMUM EMBEDMENT DEPTH AS NOTED ON THE FOUNDATION PLAN.

GRADE IS DEFINED AS FOLLOWS
INTERIOR FOOTINGS: TOP OF SLAB.

PERIMETER FOOTINGS: PAD GRADE OR NATURAL GRADE BEFORE LANDSCAPING.

EXTERIOR FOOTINGS: TOP OF PERMANENT EXTERIOR PAVING OR CONCRETE AT LEAST 5 FEET WIDE STARTING AT THE BUILDING PERIMETER.

BACKFILL
BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR WALLS UNTIL THE INTERIOR FLOOR SYSTEM CAN ADEQUATELY BRACE THE WALL.

BACKFILL AND RECOMPACT ALL TRENCHES PER THE GEOTECHNICAL REPORT. (MIN 90% DRY DENSITY)

DRAINAGE
PROVIDE ADEQUATE DRAINAGE AWAY FROM THE STRUCTURE.

CONCRETE

MATERIAL
MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR SLAB ON GRADE, FOOTING, AND WALLS IS 4500 PSI (DESIGNED FOR 2500).

CEMENT SHALL BE TYPE V.

MAXIMUM W/C RATIO SHALL BE 0.45.

CONCRETE SLUMP SHALL BE 4 INCHES.

ALL CONCRETE SHALL BE NORMAL WEIGHT OF 145 POUND PER CUBIC FOOT UNLESS NOTED OTHERWISE, USING HARD ROCK AGGREGATES CONFORMING TO ASTM C33.

BATCHING, MIXING, AND TRANSPORTING
BATCHING, MIXING, AND TRANSPORTING CONCRETE SHALL BE PER ACI 301.

CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER OF RECORD.

PORTLAND CEMENT SHALL CONFORM TO ACI 301.

WATER SHALL NOT BE ADDED AT THE JOB SITE SUCH THAT THE APPROVED MIX DESIGN W/C RATIO IS EXCEEDED.

FORM WORK
FORM WORK SHALL BE PER ACI 301.

PLACING
PLACING OF CONCRETE SHALL BE PER ACI 301.

PLACING OF CONCRETE BY MEANS OF PUMPING SHALL BE PER ACI 301.

WHERE THERE IS A RISK OF PREMATURE DRYING, SUCH AS IN HOT OR WINDY WEATHER, CURING MEASURES SHALL BE IMPLEMENTED PER THE RECOMMENDATIONS OF ACI 301.

CONSOLIDATION
CONSOLIDATION OF CONCRETE SHALL BE PER ACI 301.

EMBEDDED ITEMS
EMBEDDED ITEMS SHALL BE PLACED PER ACI 301.

CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

EMBEDDED CONDUITS, PIPES, AND SLEEVES SHALL NOT BE LARGER IN DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, BEAM, OR WALL IN WHICH THEY ARE EMBEDDED AND SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR ELEMENT WIDTHS ON CENTER.

NO ALUMINUM EMBEDS SHALL BE IN DIRECT CONTACT WITH CONCRETE.

COLD WEATHER CONCRETING
WHEN THE AIR TEMPERATURE IS BELOW 40°F, COLD WEATHER CONCRETE PROCEDURES SHALL BE USED PER ACI 301.

A CONSTRUCTION PLAN SHALL BE SUBMITTED TO THE ENGINEER DETAILING THE PROTECTION PROCEDURES PRIOR TO PLACEMENT OF CONCRETE.

HOT WEATHER CONCRETING
PRIOR TO CONCRETE PLACEMENT, TOP 3 INCHES OF SUB-BASE SHALL BE WETTED SUFFICIENTLY TO SATURATE SUB-BASE WITHOUT ANY STANDING WATER.

CONCRETE PLACEMENT TEMPERATURE MAY NOT EXCEED 90° FAHRENHEIT WHEN MEASURED IN ACCORDANCE WITH ASTM C1064.

STEEL FORMS AND REINFORCEMENT SHALL BE COOLED PRIOR TO CONCRETE PLACEMENT WHEN STEEL TEMBERATURES EXCEED 120° FAHRENHEIT.

MIX WATER, AGGREGATES, CONVEYING AND PLACING EQUIPMENT OR ANY COMBINATION OF THE ABOVE SHALL BE COOLED IF NECESSARY TO MAINTAIN PROPER CONCRETE PLACING TEMPERATURE.

REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED, EXCEPT AS NOTED IN ACI 301.

USE OF EPOXY-COATED BARS IS NOT PERMITTED.

GRADE
ALL WELDED BARS SHALL BE GRADE 60, REFER TO ASTM STANDARD A706.

#4 BARS OR LARGER SHALL BE GRADE 60, REFER TO ASTM STANDARD A615.

#3 BARS OR SMALLER SHALL BE GRADE 40, REFER TO ASTM STANDARD A615.

WELDED WIRE FABRIC SHALL BE GRADE 60, REFER TO ASTM STANDARD A185.

REINFORCING STEEL

CLEAR COVER
ALL DIMENSIONS NOT NOTED AS "CLR" ARE TO THE CENTER OF THE BAR.

FOR CLEAR COVER REQUIREMENTS REFER TO TYPICAL DETAIL "MINIMUM COVER FOR NON-PRESTRESSED STEEL".

REINFORCEMENT SUPPORTS
REINFORCEMENT SUPPORT SHALL BE PROVIDED TO MAINTAIN CLEAR DIMENSIONS SHOWN ON PLANS AND SHALL CONFORM TO ONE OF THE FOLLOWING SUPPORT TYPES: WIRE, COATED WIRE, PRECAST CONCRETE, PLASTIC.

REINFORCEMENT SUPPORT SHALL COMPLY WITH ACI 301.

LAP SPLICING
UNLESS NOTED OTHERWISE TACK WELDING OF REINFORCING BARS NOT ALLOWED.

FOR LAP LENGTH REQUIREMENTS REFER TO TYPICAL DETAIL "LAP LENGTH SCHEDULE".

MECHANICAL SPLICE COUPLERS
MECHANICAL SPLICE COUPLERS SHALL HAVE CURRENT ICC-ES APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE STRENGTH OF THE BAR.

WELDING
WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM TO AWS D1.4.

BENDING
BENDING SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE UNBENT AND REBENT. #5 BAR AND SMALLER MAY BE COLD FIELD BENT. #6 BAR AND LARGER SHALL NOT BE FIELD BENT WITHOUT PRIOR APPROVAL FROM ENGINEER.

PLACE AND DETAIL
ALL BARS SHALL BE DETAILED AND PLACED PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

WOOD

GENERAL
SAWN FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY.

DO NOT NOTCH OR DRILL JOISTS, BEAMS, OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.

FABRICATION AND HANDLING SHALL CONFORM WITH THE LATEST AITC AND ASTM STANDARDS.

ALL ENGINEERED WOOD PRODUCTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ESR-1387 OR APPROVED EQUAL.

SAWN LUMBER
SAWN LUMBER SHALL BE DOUGLAS FIR LARCH, NO. 2 UNLESS NOTED OTHERWISE.

2x4 STUDS, BLOCKING, AND TOP PLATES SHALL BE DOUGLAS FIR LARCH, STUD GRADE.

6x6 POSTS AND LARGER SHALL BE NO. 1 GRADE.

GLUE-LAMINATED BEAMS (GLB)
GLULAM BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4 AT SIMPLE SPAN BEAMS AND 24F-V8 AT CANTILEVERED AND MULTI-SPAN BEAMS, UNLESS NOTED OTHERWISE, AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
- E=1,800,000 PSI
- Fb=2,400 PSI
- Fc (PERPENDICULAR)=650 PSI
- Fc (PARALLEL)=1,650 PSI
- Fv=265 PSI

BEAMS SHALL BE MANUFACTURED WITH 2000' RADIUS MINIMUM CAMBER UNLESS CAMBER IS SPECIFICALLY NOTED ON THE DRAWINGS.

STRUCTURAL USE PANELS
STRUCTURAL USE PANELS SHALL BE PERFORMANCE RATED BY THE AMERICAN PLYWOOD ASSOCIATION (APA). PANELS SHALL COMPLY WITH ICC REPORT NO. NER-108, EXPOSURE 1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PLYWOOD SHALL BE FIVE-PLY SHEATHING. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. PLYWOOD MAY BE ORIENTED PER SHEARWALL SCHEDULE. ORIENTED STRAND BOARD (OSB) MAY BE USED AS AN ALTERNATE TO PLYWOOD. PROVIDE BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. PANELS SHALL CONFORM TO THE NOMINAL THICKNESS, SPAN RATING AND MINIMUM NAILING PATTERN PER TYPICAL SHEATHING REQUIREMENTS DETAIL UNLESS NOTED OTHERWISE.

PROVIDE ONE PANEL CLIP BETWEEN SUPPORTS SPACED GREATER THAN 16" ON CENTER AND TWO PANEL CLIPS BETWEEN SUPPORTS SPACED GREATER THAN 32" ON CENTER. AS AN ALTERNATIVE, TONGUE AND GROOVE MAY BE USED OR UNSUPPORTED PANEL EDGES MAY BE BLOCKED WITH 2x FLAT BLOCKING.

BOTTOM PLATES (SOLE PLATES)
EXTERIOR WALLS OR SHEARWALLS: BOTTOM PLATES RESTING ON CONCRETE OR MASONRY SHALL BE TREATED DOUGLAS FIR. BOTTOM PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH CAST-IN-PLACE ANCHOR BOLTS EMBEDDED 7" MINIMUM IN CONCRETE UNLESS NOTED OTHERWISE. PROVIDE MINIMUM (1) ANCHOR BOLT LOCATED NOT MORE THAN 6" OR LESS THAN 4" FROM EACH END OF EACH BOTTOM PLATE PIECE. ANCHOR BOLTS FOR HOLDOWNS SHALL NOT BE CONSIDERED AS A SHEARWALL ANCHOR BOLT. CAST-IN-PLACE ANCHOR BOLTS MAY BE SUBSTITUTED WITH POST-INSTALLED ANCHORS WITH SAME DIAMETER AND SPACING WITH 7" MINIMUM CONCRETE EMBEDMENT.

FOUNDATION ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER UNDER EACH NUT NOT LESS THAN 1/4"x3"x3" IN SIZE (1/4"x3"x4 1/2" AT 2x6 WALLS WITH SHEATHING BOTH FACES). THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4" PROVIDED A STANDARD CUT WASHER (0.109"x1 3/8" OUTSIDE DIAMETER AT 1/2" DIAMETER BOLT OR 0.134"x1 3/4" OUTSIDE DIAMETER AT 5/8" DIAMETER BOLT) IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING.

INTERIOR BEARING AND PARTITION WALLS: BOTTOM PLATES RESTING ON CONCRETE OR MASONRY AT NON-SHEARWALL LOCATIONS SHALL BE TREATED DOUGLAS FIR. BOTTOM PLATES SHALL BE ANCHORED TO FOUNDATION WITH 1/2" DIAMETER EXPANSION ANCHORS WITH 3" EMBEDMENT AT 48" ON CENTER MAXIMUM OR 0.145" DIAMETER POWDER ACTUATED FASTENERS WITH 1" EMBEDMENT AT 32" ON CENTER MAXIMUM.

NAILS
ALL NAILS, EXCEPT 16d, SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE. 16d NAILS MAY BE SINKERS OR BOX UNLESS NOTED OTHERWISE ON PLANS OR SCHEDULES. NAILS SHALL BE DRIVEN SO THAT THE HEADS ARE FLUSH WITH WOOD SURFACE. OVER OR UNDER DRIVEN NAILS WILL NOT BE ACCEPTABLE.

WOOD

16d NAILS HAVE A MINUMUM SHANK DIAMETER OF 0.135" AND ARE 3 1/2" LONG. 10d NAILS HAVE A SHANK DIAMTER OF 0.148" AND ARE 3" LONG. 8d NAILS HAVE A SHANK DIAMETER OF 0.131" AND ARE 2 1/2" LONG.

BOLTS AND LAG SCREWS
ALL BOLTS SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/16" LARGER THAN THE DIAMETER OF THE BOLT.

CUT WASHERS SHALL BE PLACED UNDER BOLT HEADS AND NUTS. SPOIL THREADS TO PREVENT LOOSENING.

LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES 40% TO 70% OF THE DIAMETER OF THE LAG SCREW AND INSTALLED BY TURNING WITH A WRENCH.

ANCHORS
FRAMING ANCHORS, HANGERS, AND OTHER MISCELLANEOUS HARDWARE SPECIFIED ON PLANS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC OR EQUIVALENT WITH CURRENT ICC APPROVAL.

WHERE METAL CONNECTORS, ANCHORS, FASTENERS, ETC. ARE INSTALLED IN OR EXPOSED TO POTENTIALLY CORROSIVE ENVIRONMENTS OR MATERIALS (I.E. PRESSURE TREATED WOOD, FIRE RETARDANTS, DISSIMILAR METALS, ETC.), APPROPRIATE MEASURES SHALL BE TAKEN (I.E. USE OF CORROSIVE RESISTANT METAL, PROPER APPLICATION OF ADEQUATE PROTECTIVE COATING, ETC.) IN ORDER TO PROTECT THE HARDWARE AGAINST DAMAGE THAT MAY ADVERSELY AFFECT ITS LOAD CARRYING CAPACITY. REFER TO MANUFACTURER FOR SPECIFIC APPLICATION, LIMITATIONS, OR ADDITIONAL REQUIREMENTS.

POST-INSTALLED ANCHORAGE

INSTALLATION
INSTALL THE ITEMS BELOW PER THE CURRENT ICC-ES OR IAPMO-UES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

ADHESIVE ANCHORS
ADHESIVE-ANCHORED THREADED RODS AND REBAR SHALL BE INSTALLED USING ONE OF THE FOLLOWING ADHESIVE ANCHOR SYSTEMS:

FOR CONCRETE: HILTI HIT-RE 500-SD (ICC ESR-2322), OR SIMPSON STRONG-TIE SET-XP (ICC ESR-2508), OR SIMPSON STRONG-TIE AT-XP (IAPMO ER-263), OR HILTI HIT-HY 200 (ICC ESR-3187)

FOR GROUTED MASONRY: HILTI HIT-HY 70 (ICC ESR-2682), OR SIMPSON STRONG-TIE SET-XP (IAPMO ER-265), OR SIMPSON STRONG-TIE AT-XP (IAPMO ER-281)

INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT PRIOR TO ANCHOR INSTALLATION.

EXPANSION ANCHORS
EXPANSION ANCHORS SHALL BE INSTALLED USING ONE OF THE FOLLOWING:

FOR CONCRETE: HILTI KWIK BOLT TZ (ICC ESR-1917) OR SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC ESR-3037)

FOR GROUTED MASONRY: HILTI KWIK BOLT 3 (ICC ESR-1385) OR SIMPSON STRONG-TIE STRONG-BOLT 2 (IAPMO ER-240)

SCREW ANCHORS
SCREW ANCHORS SHALL BE INSTALLED USING ONE OF THE FOLLOWING:

FOR CONCRETE: HILTI KWIK HUS-EZ (ICC ESR-3027) OR SIMPSON STRONG-TIE TITEN HD (ICC ESR-2713)

FOR GROUTED MASONRY: HILTI KWIK HUS-EZ (ICC ESR-3056) OR SIMPSON STRONG-TIE TITEN HD (ICC ESR-1056)

ALTERNATE
ALTERNATE ANCHOR SYSTEMS WITH CURRENT ICC-ES OR IAPMO-UES REPORT MAY BE USED WITH PRIOR WRITTEN APPROVAL BY ENGINEER.

DEFERRED SUBMITTALS

SPECIALTY ITEMS
PREFABRICATED OR SPECIALTY ITEMS AND THEIR COMPONENTS, WHICH ARE INDICATED BY THE STRUCTURAL DRAWINGS TO BE DESIGNED BY OTHERS, MAY BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER OF RECORD FOR REVIEW AS A DEFERRED SUBMITTAL PROVIDED THAT SUCH SUBMITTAL IS AUTHORIZED BY THE BUILDING DEPARTMENT. DEFERRED SUBMITTALS REQUIRED TO BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD SHALL INCLUDE BUT NOT BE LIMITED TO:

- AWNINGS, SIGNAGE, FASCIAS, ETC.
- FIRE SPRINKLERS
- CONCRETE MIX DESIGN
- SHADE STRUCTURE

PREPARATION
ALL DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS AND DRAWINGS PREPARED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND STAMPED BY AN APPROPRIATELY LICENSED PROFESSIONAL ENGINEER. SUBMITTALS SHALL SHOW LOCATION AND MAGNITUDE OF LOADS, SIZE AND CONFIGURATIONS OF MEMBERS, AND COMPATIBILITY WITH THE PRIMARY STRUCTURAL SYSTEM.

REVIEW
DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED IN ACCORDANCE WITH STANDARD SHOP DRAWING REVIEW PROCEDURES AS DESCRIBED IN THE GENERAL REQUIREMENTS SECTION OF THE GENERAL STRUCTURAL NOTES.

STRUCTURAL LEGEND

RME XX#	ROOF MOUNTED EQUIPMENT	C1 C2	STEEL COLUMN (W, HSS)
ELEV: 1'-0" T.O. STEEL	SPOT ELEVATION	W12X26	STEEL BEAM
1 S1.1	SECTION CUT LINE		STEEL MOMENT CONNECTION
1 S1.1	ELEVATION CALLOUT		STEEL DRAG CONNECTION
T.O. FLR 95' - 0"	ELEVATION		STEEL DOUBLE ANGLE CONNECTION
STEP	STEP IN ELEVATION		STEEL DIAGONAL BRACING
F2.0	COLUMN FOOTING		STEEL BAR GRATING
WF 1.5	WALL FOOTING	MF1	STEEL MOMENT FRAME
CP1	CONCRETE PILE		CONCRETE OVER METAL DECK
GB1	GRADE BEAM		METAL DECK
CW1	CONCRETE WALL		STUD BEARING WALL
CC1	CONCRETE COLUMN	A (1'-0")	STUD SHEAR WALL
CB1	CONCRETE BEAM	P1	WOOD POST
CMF 1	CONCRETE MOMENT FRAME	1	WOOD BEAM OR HEADER
	ONE WAY CONCRETE SLAB	CS16	STRAP AT OPENING
	TWO WAY CONCRETE SLAB	HDU4 TD1	HOLDOWN/ TIE DOWN
1	PT TENDON W/ DEAD END		WOOD SHEATHING
1	PT TENDON STRESSED AT BOTH ENDS		WOOD DECKING
MW1	MASONRY WALL		HANGER
ML1	MASONRY LINTEL	2X4 AT 12" O.C.	JOIST / TRUSS ARROW
MP1	MASONRY PILASTER		OVERBUILD FRAMING, SEE TYPICAL DETAIL
MJ1 (8) #5-48"	MASONRY JAMB		NON- STRUCTURAL STUD WALL
			STUD WALL ABOVE
			LEDGER

NOT ALL SYMBOLS MAY BE USED

SPECIAL INSPECTIONS

SPECIAL INSPECTION INDEPENDENT OF THE CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD SHALL BE PROVIDED BY OWNER ACCORDING TO IBC CHAPTER 17. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. NOT THE SHOP DRAWINGS. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE OWNER, BUILDING OFFICIAL, ARCHITECT, ENGINEER, AND CONTRACTOR FOR CORRECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A BI-WEEKLY AND A FINAL SIGNED REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS, TO THE BEST OF HIS KNOWLEDGE, IN CONFORMANCE WITH THE PLANS, SPECIFICATIONS, AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

POST-INSTALLED ANCHORS (EPOXY, EXPANSION, SCREW)		
VERIFICATION AND INSPECTION	**CONT**	**PERIODIC**
AS APPLICABLE THE INSPECTION PROGRAM SHALL VERIFY: ANCHOR TYPE, EMBEDMENT, TIGHTENING TORQUE, DIMENSIONS, HOLE DEPTH, DIAMETER AND CLEANOUT, EPOXY MIXING, AND PLACEMENT PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CURRENT ICC REPORT (ESR)		■
MASONRY - LEVEL B (TMS 402/ACI 530/ASCE 5)		
VERIFICATION AND INSPECTION	**CONT**	**PERIODIC**
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		■
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. PROPORTIONS OF SITE-PREPARED MORTAR		■
B. CONSTRUCTION OF MORTAR JOINTS		■
C. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		■
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. GROUT SPACE		■
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS		■
C. PLACEMENT OF REINFORCEMENT, CONNECTORS		■
D. PROPORTIONS OF SITE-PREPARED GROUT		■
E. CONSTRUCTION OF MORTAR JOINTS		■
4. VERIFY DURING CONSTRUCTION:		
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		■
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		■
C. WELDING OF REINFORCEMENT	■	
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		■
E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	■	
F. PLACEMENT OF GROUT IS IN COMPLIANCE	■	
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		■

DISCLAIMER
EXISTING CONDITIONS SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE BASED ON DRAWINGS AND/OR INFORMATION PROVIDED TO ES2 BY THE OWNER OR THE OWNER'S DULY AUTHORIZED REPRESENTATIVE. ES2 HAS NOT FIELD VERIFIED THE EXISTING CONDITIONS INFORMATION AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THIS INFORMATION. THE GENERAL CONTRACTOR SHALL NOTIFY ES2 AND THE OWNER IMMEDIATELY IF EXISTING CONDITIONS ARE NOT AS SHOWN ON THE CONSTRUCTION DOCUMENTS.

AS BUILT

STANDARD ABBREVIATIONS

℄	CENTERLINE
(E)	EXISTING
AB	ANCHOR BOLT
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASD	ALLOWABLE STRESS DESIGN
BLDG	BUILDING
BLKG	BLOCKING
BN	BOUNDARY NAILING OR FASTENERS
BO	BOTTOM OF
BOT	BOTTOM
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DIA OR Ø	DIAMETER

GENERAL STRUCTURAL NOTES

GENERAL REQUIREMENTS

DRAWINGS

THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKERS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

MISCELLANEOUS ITEMS

CALCULATION AND DESIGN OF MISCELLANEOUS NON-STRUCTURAL ITEMS, SUCH AS STAIRS, RAILINGS, NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS FLOOR AND ROOF TRUSSES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.

CONSTRUCTION MEANS AND METHODS

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORMWORK, ETC... AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY (INCLUDING UTILITIES) DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE PLACED ON THE STRUCTURE SUCH THAT THE DESIGN LOADS ARE NOT EXCEEDED.

DIMENSIONS, INSERTS AND OPENINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED BEFORE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WHERE DISCREPENCIES OCCUR IN THESE DRAWINGS, NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STUCTURAL NOTES AND TYPICAL DETAILS.

CONTRACTOR SHALL ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

STANDARDS

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE EDITION REFERENCED IN THE GOVERNING BUILDING CODE.

TYPICAL DETAILS AND NOTES

TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

SHOP DRAWINGS

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENEREAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. ENGINEERING SYSTEM SOLUTIONS SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. FIVE WORKING DAYS SHALL BE ALLOWED FOR THE ENGINEER'S REVIEW. CONTRACTOR SHALL PROVIDE A COPY OF EACH SUBMITTAL FOR ENGINEERING SYSTEM SOLUTIONS RECORDS.

SHOP DRAWINGS SHALL REFERENCE DATE AND DELTA (IF ANY) OF CONTRACT DRAWINGS.

MOLD

MOLD CONCERNS AND PREVENTION IS OUT OF ENGINEERING SYSTEM SOLUTIONS SCOPE OF SERVICES. ENGINEERING SYSTEM SOLUTIONS SHALL BE HELD HARMLESS, TO THE EXTENT OF THE LAW, FOR ALL MOLD PREVENTION AND MOLD RELATED CONCERNS.

BASIS FOR DESIGN

GOVERNING BUILDING CODE	2012 IBC
GRAVITY	
ROOF DEAD	23 PSF
ROOF LIVE	20 PSF
FLOOR DEAD	30 PSF
FLOOR LIVE	40 PSF
EGRESS LIVE	100 PSF
*LIVE LOADS REDUCED AS PERMITTED BY BUILDING CODE	
RISK CATEGORY	
RISK CATEGORY	II
SEISMIC	
ANALYSIS PROCEDURE	EQUIVALENT LATERAL-FORCE PROCEDURE
SEISMIC FORCE RESISTING SYSTEM	WOOD SHEAR WALL
R	6.5
I	1.0
Ss	0.478
S1	0.163
SDS (SHORT PERIOD)	0.451
SD1 (1-SECOND PERIOD)	0.233
SITE CLASS	D
SEISMIC DESIGN CATEGORY	D
Cs	0.069
WIND	
BASIC WIND SPEED	115 MPH
EXPOSURE	C
GCPI	± 0.18
DEFLECTION LIMITS	
WOOD FLOOR ELEMENTS: TRUSSES AND JOISTS	
TOTAL LOAD	L/480
LIVE LOAD	L/600
WOOD ROOF ELEMENTS: TRUSSES AND JOISTS	
TOTAL LOAD	L/240
LIVE LOAD	L/360
SOILS	
SOIL BEARING PRESSURE (D+L+Lr)	1800 PSF
SOIL BEARING PRESSURE x 1.33 (+W OR +E)	2400 PSF
MINIMUM EMBEDMENT DEPTH	18 INCHES
PASSIVE BEARING PRESSURE	340 PCF
ACTIVE BEARING PRESSURE	40 PCF
COEFF OF FRICTION	0.38

FOUNDATION

FOUNDATION PREPARATION

AS A MINIMUM THE EXISTING SUBBASE SHALL BE FREE OF COBBLES LARGER THAN 12" IN DIAMETER AND SILT OR CLAY DEPOSITS.

EXISTING SUBBASE SHALL BE SCARIFIED FOR 12" DEPTH AND COMPACTED (95% DRY DENSITY), AND 8" OF WELL-GRADED 3" MINUS GRANULAR MATERIAL BE PLACED ON EXISTING COMPACTED SUBBASE AND COMPACTED (95% DRY DENSITY).

DESIGN RECOMMENDATIONS

FIRM: GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC; REPORT NO.: 20153743E1; DATE: SEP 30, 2015

FOOTING EMBEDMENT

ALL FOOTINGS SHALL EXTEND BELOW GRADE THE MINIMUM EMBEDMENT DEPTH AS NOTED ON THE FOUNDATION PLAN.

GRADE IS DEFINED AS FOLLOWS

INTERIOR FOOTINGS: TOP OF SLAB.

PERIMETER FOOTINGS: PAD GRADE OR NATURAL GRADE BEFORE LANDSCAPING.

EXTERIOR FOOTINGS: TOP OF PERMANENT EXTERIOR PAVING OR CONCRETE AT LEAST 5 FEET WIDE STARTING AT THE BUILDING PERIMETER.

BACKFILL

BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR WALLS UNTIL THE INTERIOR FLOOR SYSTEM CAN ADEQUATELY BRACE THE WALL.

BACKFILL AND RECOMPACT ALL TRENCHES PER THE GEOTECHNICAL REPORT. (MIN 90% DRY DENSITY)

DRAINAGE

PROVIDE ADEQUATE DRAINAGE AWAY FROM THE STRUCTURE.

CONCRETE

MATERIAL

MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR SLAB ON GRADE, FOOTING, AND WALLS IS 4500 PSI (DESIGNED FOR 2500).

CEMENT SHALL BE TYPE V.

MAXIMUM W/C RATIO SHALL BE 0.45.

CONCRETE SLUMP SHALL BE 4 INCHES.

ALL CONCRETE SHALL BE NORMAL WEIGHT OF 146 POUND PER CUBIC FOOT UNLESS NOTED OTHERWISE, USING HARD ROCK AGGREGATES CONFORMING TO ASTM C33.

BATCHING, MIXING, AND TRANSPORTING

BATCHING, MIXING, AND TRANSPORTING CONCRETE SHALL BE PER ACI 301.

CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER OF RECORD.

PORTLAND CEMENT SHALL CONFORM TO ACI 301.

WATER SHALL NOT BE ADDED AT THE JOB SITE SUCH THAT THE APPROVED MIX DESIGN W/C RATIO IS EXCEEDED.

FORM WORK

FORM WORK SHALL BE PER ACI 301.

PLACING

PLACING OF CONCRETE SHALL BE PER ACI 301.

PLACING OF CONCRETE BY MEANS OF PUMPING SHALL BE PER ACI 301.

WHERE THERE IS A RISK OF PREMATURE DRYING, SUCH AS IN HOT OR WINDY WEATHER, CURING MEASURES SHALL BE IMPLEMENTED PER THE RECOMMENDATIONS OF ACI 301.

CONSOLIDATION

CONSOLIDATION OF CONCRETE SHALL BE PER ACI 301.

EMBEDDED ITEMS

EMBEDDED ITEMS SHALL BE PLACED PER ACI 301.

CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

EMBEDDED CONDUITS, PIPES, AND SLEEVES SHALL NOT BE LARGER IN DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, BEAM, OR WALL IN WHICH THEY ARE EMBEDDED AND SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR ELEMENT WIDTHS ON CENTER.

NO ALUMINUM EMBEDS SHALL BE IN DIRECT CONTACT WITH CONCRETE.

COLD WEATHER CONCRETING

WHEN THE AIR TEMPERATURE IS BELOW 40°F, COLD WEATHER CONCRETE PROCEDURES SHALL BE USED PER ACI 301.

A CONSTRUCTION PLAN SHALL BE SUBMITTED TO THE ENGINEER DETAILING THE PROTECTION PROCEDURES PRIOR TO PLACEMENT OF CONCRETE.

HOT WEATHER CONCRETING

PRIOR TO CONCRETE PLACEMENT, TOP 3 INCHES OF SUB-BASE SHALL BE WETTED SUFFICIENTLY TO SATURATE SUB-BASE WITHOUT ANY STANDING WATER.

CONCRETE PLACEMENT TEMPERATURE MAY NOT EXCEED 90° FAHRENHEIT WHEN MEASURED IN ACCORDANCE WITH ASTM C1064.

STEEL FORMS AND REINFORCEMENT SHALL BE COOLED PRIOR TO CONCRETE PLACEMENT WHEN STEEL TEMBERATURES EXCEED 120° FAHRENHEIT.

MIX WATER, AGGREGATES, CONVEYING AND PLACING EQUIPMENT OR ANY COMBINATION OF THE ABOVE SHALL BE COOLED IF NECESSARY TO MAINTAIN PROPER CONCRETE PLACING TEMPERATURE.

REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED, EXCEPT AS NOTED IN ACI 301.

USE OF EPOXY-COATED BARS IS NOT PERMITTED.

GRADE

ALL WELDED BARS SHALL BE GRADE 60, REFER TO ASTM STANDARD A706.

#4 BARS OR LARGER SHALL BE GRADE 60, REFER TO ASTM STANDARD A615.

#3 BARS OR SMALLER SHALL BE GRADE 40, REFER TO ASTM STANDARD A615.

WELDED WIRE FABRIC SHALL BE GRADE 60, REFER TO ASTM STANDARD A185.

REINFORCING STEEL

CLEAR COVER

ALL DIMENSIONS NOT NOTED AS "CLR" ARE TO THE CENTER OF THE BAR.

FOR CLEAR COVER REQUIREMENTS REFER TO TYPICAL DETAIL "MINIMUM COVER FOR NON-PRESTRESSED STEEL".

REINFORCEMENT SUPPORTS

REINFORCEMENT SUPPORT SHALL BE PROVIDED TO MAINTAIN CLEAR DIMENSIONS SHOWN ON PLANS AND SHALL CONFORM TO ONE OF THE FOLLOWING SUPPORT TYPES: WIRE, COATED WIRE, PRECAST CONCRETE, PLASTIC.

REINFORCEMENT SUPPORT SHALL COMPLY WITH ACI 301.

LAP SPLICING

UNLESS NOTED OTHERWISE TACK WELDING OF REINFORCING BARS NOT ALLOWED.

FOR LAP LENGTH REQUIREMENTS REFER TO TYPICAL DETAIL "LAP LENGTH SCHEDULE".

MECHANICAL SPLICE COUPLERS

MECHANICAL SPLICE COUPLERS SHALL HAVE CURRENT ICC-ES APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE STRENGTH OF THE BAR.

WELDING

WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM TO AWS D1.4.

BENDING

BENDING SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE UNBENT AND REBENT. #5 BAR AND SMALLER MAY BE COLD FIELD BENT. #6 BAR AND LARGER SHALL NOT BE FIELD BENT WITHOUT PRIOR APPROVAL FROM ENGINEER.

PLACE AND DETAIL

ALL BARS SHALL BE DETAILED AND PLACED PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

WOOD

GENERAL

SAWN FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY.

DO NOT NOTCH OR DRILL JOISTS, BEAMS, OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.

FABRICATION AND HANDLING SHALL CONFORM WITH THE LATEST AITC AND ASTM STANDARDS.

ALL ENGINEERED WOOD PRODUCTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ESR-1387 OR APPROVED EQUAL.

SAWN LUMBER

SAWN LUMBER SHALL BE DOUGLAS FIR LARCH, NO. 2 UNLESS NOTED OTHERWISE.

2x4 STUDS, BLOCKING, AND TOP PLATES SHALL BE DOUGLAS FIR LARCH, STUD GRADE.

6x6 POSTS AND LARGER SHALL BE NO. 1 GRADE.

GLUE-LAMINATED BEAMS (GLB)

GLULAM BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4 AT SIMPLE SPAN BEAMS AND 24F-V8 AT CANTILEVERED AND MULTI-SPAN BEAMS, UNLESS NOTED OTHERWISE, AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

- E=1,800,000 PSI
- Fb=2,400 PSI
- Fc (PERPENDICULAR)=650 PSI
- Fv (PARALLEL)=1,650 PSI
- Fv=265 PSI

BEAMS SHALL BE MANUFACTURED WITH 2000' RADIUS MINIMUM CAMBER UNLESS CAMBER IS SPECIFICALLY NOTED ON THE DRAWINGS.

STRUCTURAL USE PANELS

STRUCTURAL USE PANELS SHALL BE PERFORMANCE RATED BY THE AMERICAN PLYWOOD ASSOCIATION (APA). PANELS SHALL COMPLY WITH ICC REPORT NO. NER-108, EXPOSURE 1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PLYWOOD SHALL BE FIVE-PLY SHEATHING. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. PLYWOOD MAY BE ORIENTED PER SHEARWALL SCHEDULE. ORIENTED STRAND BOARD (OSB) MAY BE USED AS AN ALTERNATE TO PLYWOOD. PROVIDE BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. PANELS SHALL CONFORM TO THE NOMINAL THICKNESS, SPAN RATING AND MINIMUM NAILING PATTERN PER TYPICAL SHEATHING REQUIREMENTS DETAIL UNLESS NOTED OTHERWISE.

PROVIDE ONE PANEL CLIP BETWEEN SUPPORTS SPACED GREATER THAN 16" ON CENTER AND TWO PANEL CLIPS BETWEEN SUPPORTS SPACED GREATER THAN 32" ON CENTER. AS AN ALTERNATIVE, TONGUE AND GROOVE MAY BE USED OR UNSUPPORTED PANEL EDGES MAY BE BLOCKED WITH 2x FLAT BLOCKING.

BOTTOM PLATES (SOLE PLATES)

EXTERIOR WALLS OR SHEARWALLS: BOTTOM PLATES RESTING ON CONCRETE OR MASONRY SHALL BE TREATED DOUGLAS FIR. BOTTOM PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH CAST-IN-PLACE ANCHOR BOLTS EMBEDDED 7" MINIMUM IN CONCRETE UNLESS NOTED OTHERWISE. PROVIDE MINIMUM (1) ANCHOR BOLT LOCATED NOT MORE THAN 9" OR LESS THAN 4" FROM EACH END OF EACH BOTTOM PLATE PIECE. ANCHOR BOLTS FOR HOLDOWNS SHALL NOT BE CONSIDERED AS A SHEARWALL ANCHOR BOLT. CAST-IN-PLACE ANCHOR BOLTS MAY BE SUBSTITUTED WITH POST-INSTALLED ANCHORS WITH SAME DIAMETER AND SPACING WITH 7" MINIMUM CONCRETE EMBEDMENT.

FOUNDATION ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER UNDER EACH NUT NOT LESS THAN 1/4"x3"x3" IN SIZE (1/4"x3"x4 1/2" AT 2x6 WALLS WITH SHEATHING BOTH FACES). THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4" PROVIDED A STANDARD CUT WASHER (0.109"x1 3/8" OUTSIDE DIAMETER AT 1/2" DIAMETER BOLT OR 0.134"x1 3/4" OUTSIDE DIAMETER AT 5/8" DIAMETER BOLT) IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING.

INTERIOR BEARING AND PARTITION WALLS: BOTTOM PLATES RESTING ON CONCRETE OR MASONRY AT NON-SHEARWALL LOCATIONS SHALL BE TREATED DOUGLAS FIR. BOTTOM PLATES SHALL BE ANCHORED TO FOUNDATION WITH 1/2" DIAMETER EXPANSION ANCHORS WITH 3" EMBEDMENT AT 48" ON CENTER MAXIMUM OR 0.145" DIAMETER POWDER ACTUATED FASTENERS WITH 1" EMBEDMENT AT 32" ON CENTER MAXIMUM.

NAILS

ALL NAILS, EXCEPT 16d, SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE. 16d NAILS MAY BE SINKERS OR BOX UNLESS NOTED OTHERWISE ON PLANS OR SCHEDULES. NAILS SHALL BE DRIVEN SO THAT THE HEADS ARE FLUSH WITH WOOD SURFACE. OVER OR UNDER DRIVEN NAILS WILL NOT BE ACCEPTABLE.

WOOD

16d NAILS HAVE A MINIMUM SHANK DIAMETER OF 0.135" AND ARE 3 1/2" LONG. 10d NAILS HAVE A SHANK DIAMETER OF 0.148" AND ARE 3" LONG. 8d NAILS HAVE A SHANK DIAMETER OF 0.131" AND ARE 2 1/2" LONG.

BOLTS AND LAG SCREWS

ALL BOLTS SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/16" LARGER THAN THE DIAMETER OF THE BOLT.

CUT WASHERS SHALL BE PLACED UNDER BOLT HEADS AND NUTS. SPOIL THREADS TO PREVENT LOOSENING.

LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES 40% TO 70% OF THE DIAMETER OF THE LAG SCREW AND INSTALLED BY TURNING WITH A WRENCH.

ANCHORS

FRAMING ANCHORS, HANGERS, AND OTHER MISCELLANEOUS HARDWARE SPECIFIED ON PLANS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC OR EQUIVALENT WITH CURRENT ICC APPROVAL.

WHERE METAL CONNECTORS, ANCHORS, FASTENERS, ETC. ARE INSTALLED IN OR EXPOSED TO POTENTIALLY CORROSIVE ENVIRONMENTS OR MATERIALS (I.E. PRESSURE TREATED WOOD, FIRE RETARDANTS, DISSIMILAR METALS, ETC.), APPROPRIATE MEASURES SHALL BE TAKEN (I.E. USE OF CORROSIVE RESISTANT METAL, PROPER APPLICATION OF ADEQUATE PROTECTIVE COATING, ETC.) IN ORDER TO PROTECT THE HARDWARE AGAINST DAMAGE THAT MAY ADVERSELY AFFECT ITS LOAD CARRYING CAPACITY. REFER TO MANUFACTURER FOR SPECIFIC APPLICATION, LIMITATIONS, OR ADDITIONAL REQUIREMENTS.

POST-INSTALLED ANCHORAGE

INSTALLATION

INSTALL THE ITEMS BELOW PER THE CURRENT ICC-ES OR IAPMO-UES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

ADHESIVE ANCHORS

ADHESIVE-ANCHORED THREADED RODS AND REBAR SHALL BE INSTALLED USING ONE OF THE FOLLOWING ADHESIVE ANCHOR SYSTEMS:

FOR CONCRETE: HILTI HIT-RE 500-SD (ICC ESR-2322), OR SIMPSON STRONG-TIE SET-XP (ICC ESR-2508), OR SIMPSON STRONG-TIE AT-XP (IAPMO ER-263), OR HILTI HIT-HY 200 (ICC ESR-3187)

FOR GROUTED MASONRY: HILTI HIT-HY 70 (ICC ESR-2682), OR SIMPSON STRONG-TIE SET-XP (IAPMO ER-285), OR SIMPSON STRONG-TIE AT-XP (IAPMO ER-281)

INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT PRIOR TO ANCHOR INSTALLATION.

EXPANSION ANCHORS

EXPANSION ANCHORS SHALL BE INSTALLED USING ONE OF THE FOLLOWING:

FOR CONCRETE: HILTI KWIK BOLT TZ (ICC ESR-1917) OR SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC ESR-3037)

FOR GROUTED MASONRY: HILTI KWIK BOLT 3 (ICC ESR-1385) OR SIMPSON STRONG-TIE STRONG-BOLT 2 (IAPMO ER-240)

SCREW ANCHORS

SCREW ANCHORS SHALL BE INSTALLED USING ONE OF THE FOLLOWING:

FOR CONCRETE: HILTI KWIK HUS-EZ (ICC ESR-3027) OR SIMPSON STRONG-TIE TITEN HD (ICC ESR-2713)

FOR GROUTED MASONRY: HILTI KWIK HUS-EZ (ICC ESR-3056) OR SIMPSON STRONG-TIE TITEN HD (ICC ESR-1056)

ALTERNATE

ALTERNATE ANCHOR SYSTEMS WITH CURRENT ICC-ES OR IAPMO-UES REPORT MAY BE USED WITH PRIOR WRITTEN APPROVAL BY ENGINEER.

DEFERRED SUBMITTALS

SPECIALTY ITEMS

PREFABRICATED OR SPECIALTY ITEMS AND THEIR COMPONENTS, WHICH ARE INDICATED BY THE STRUCTURAL DRAWINGS TO BE DESIGNED BY OTHERS, MAY BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER OF RECORD FOR REVIEW AS A DEFERRED SUBMITTAL PROVIDED THAT SUCH SUBMITTAL IS AUTHORIZED BY THE BUILDING DEPARTMENT. DEFERRED SUBMITTALS REQUIRED TO BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD SHALL INCLUDE BUT NOT BE LIMITED TO:

1

- AWNINGS, SIGNAGE, FASCIAS, ETC.
- FIRE SPRINKLERS
- CONCRETE MIX DESIGN
- SHADE STRUCTURE

PREPARATION

ALL DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS AND DRAWINGS PREPARED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND STAMPED BY AN APPROPRIATELY LICENSED PROFESSIONAL ENGINEER. SUBMITTALS SHALL SHOW LOCATION AND MAGNITUDE OF LOADS, SIZE AND CONFIGURATIONS OF MEMBERS, AND COMPATIBILITY WITH THE PRIMARY STRUCTURAL SYSTEM.

REVIEW

DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED IN ACCORDANCE WITH STANDARD SHOP DRAWING REVIEW PROCEDURES AS DESCRIBED IN THE GENERAL REQUIREMENTS SECTION OF THE GENERAL STRUCTURAL NOTES.

STRUCTURAL LEGEND

RME XX#	ROOF MOUNTED EQUIPMENT	C1 C2	STEEL COLUMN (W, HSS)
ELEV. 1' - 0" T.O. STEEL	SPOT ELEVATION	W12X26	STEEL BEAM
1 S1.1	SECTION CUT LINE		STEEL MOMENT CONNECTION
1 S1.1	ELEVATION CALLOUT		STEEL DRAG CONNECTION
T.O. FLR 99' - 0"	ELEVATION		STEEL DOUBLE ANGLE CONNECTION
STEP	STEP IN ELEVATION		STEEL DIAGONAL BRACING
F2.0	COLUMN FOOTING		STEEL BAR GRATING
WF 1.5	WALL FOOTING	MF1	STEEL MOMENT FRAME
CP1	CONCRETE PILE		CONCRETE OVER METAL DECK
GB1	GRADE BEAM		METAL DECK
CW1	CONCRETE WALL		STUD BEARING WALL
CC1	CONCRETE COLUMN	A (1'-0")	STUD SHEAR WALL
CB1	CONCRETE BEAM	P1	WOOD POST
CMF 1	CONCRETE MOMENT FRAME	1	WOOD BEAM OR HEADER
	ONE WAY CONCRETE SLAB	CS16	STRAP AT OPENING
	TWO WAY CONCRETE SLAB	HDU4 TD1	HOLDOWN/ TIE DOWN
1	PT TENDON W/ DEAD END		WOOD SHEATHING
1	PT TENDON STRESSED AT BOTH ENDS		WOOD DECKING
MW1	MASONRY WALL		HANGER
ML1	MASONRY LINTEL	2X4 AT 12" O.C.	JOIST / TRUSS ARROW
MP1	MASONRY PILASTER		OVERBUILD FRAMING, SEE TYPICAL DETAIL
MJ1 (8) #5-48"	MASONRY JAMB		NON- STRUCTURAL STUD WALL
			STUD WALL ABOVE
			LEDGER

NOT ALL SYMBOLS MAY BE USED

SPECIAL INSPECTIONS

SPECIAL INSPECTION INDEPENDENT OF THE CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD SHALL BE PROVIDED BY OWNER ACCORDING TO IBC CHAPTER 17. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, NOT THE SHOP DRAWINGS. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE OWNER, BUILDING OFFICIAL, ARCHITECT, ENGINEER, AND CONTRACTOR FOR CORRECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A BI-WEEKLY AND A FINAL SIGNED REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS, TO THE BEST OF HIS KNOWLEDGE, IN CONFORMANCE WITH THE PLANS, SPECIFICATIONS, AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

POST-INSTALLED ANCHORS (EPOXY, EXPANSION, SCREW)

VERIFICATION AND INSPECTION	CONT	PERIODIC
AS APPLICABLE THE INSPECTION PROGRAM SHALL VERIFY: ANCHOR TYPE, EMBEDMENT, TIGHTENING TORQUE, DIMENSIONS, HOLE DEPTH, DIAMETER AND CLEANOUT, EPOXY MIXING, AND PLACEMENT PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CURRENT ICC REPORT (ESR)		■

MASONRY - LEVEL B (TMS 402/ACI 530/ASCE 5)

VERIFICATION AND INSPECTION	CONT	PERIODIC
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		■
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. PROPORTIONS OF SITE-PREPARED MORTAR		■
B. CONSTRUCTION OF MORTAR JOINTS		■
C. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		■
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. GROUT SPACE		■
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS		■
C. PLACEMENT OF REINFORCEMENT, CONNECTORS		■
D. PROPORTIONS OF SITE-PREPARED GROUT		■
E. CONSTRUCTION OF MORTAR JOINTS		■
4. VERIFY DURING CONSTRUCTION:		
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		■
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		■
C. WELDING OF REINFORCEMENT	■	
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		■
E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	■	
F. PLACEMENT OF GROUT IS IN COMPLIANCE	■	
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		■

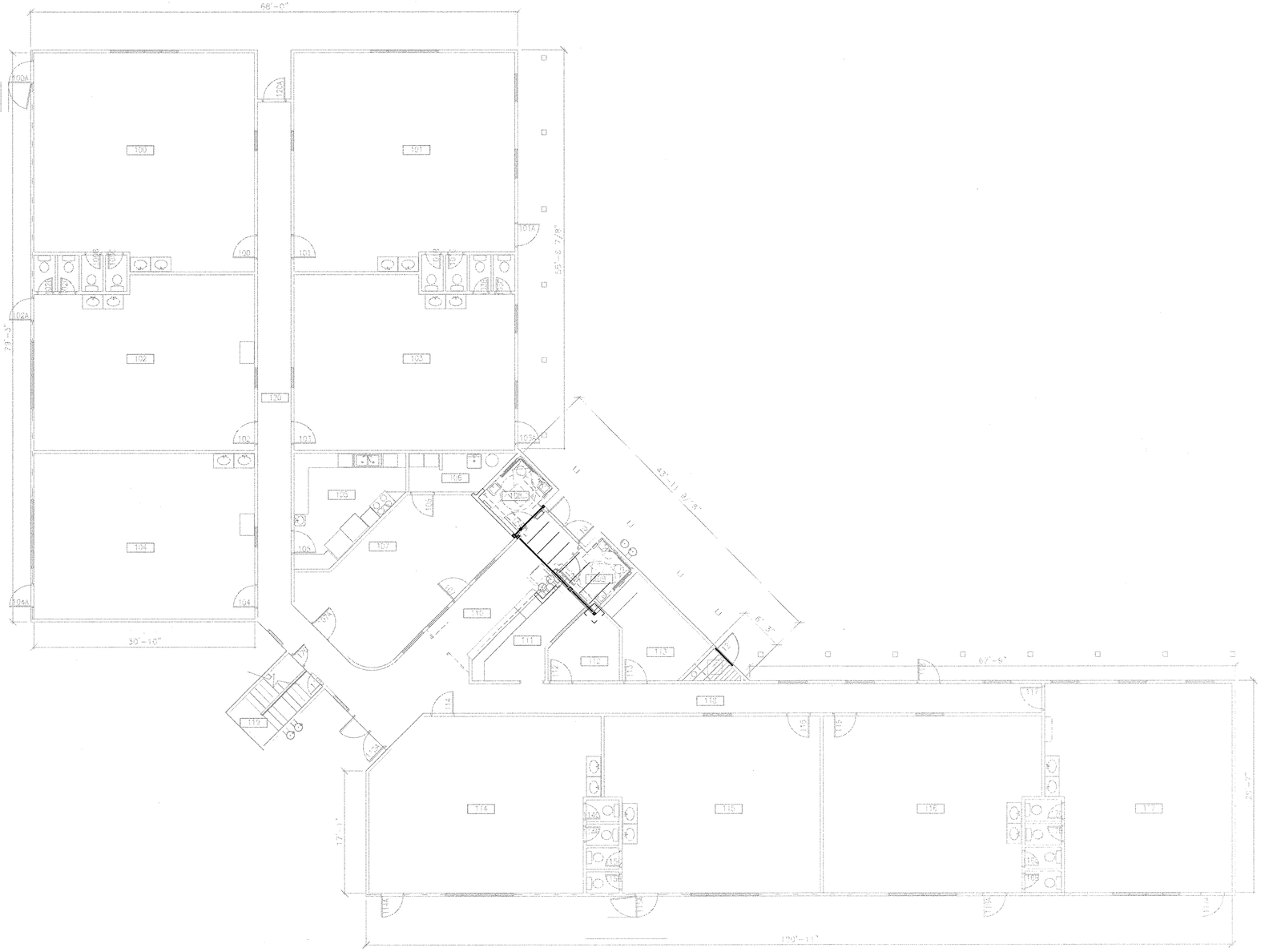
DISCLAIMER

EXISTING CONDITIONS SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE BASED ON DRAWINGS AND/OR INFORMATION PROVIDED TO ES2 BY THE OWNER OR THE OWNER'S DULY AUTHORIZED REPRESENTATIVE. ES2 HAS NOT FIELD VERIFIED THE EXISTING CONDITIONS INFORMATION AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THIS INFORMATION. THE GENERAL CONTRACTOR SHALL NOTIFY ES2 AND THE OWNER IMMEDIATELY IF EXISTING CONDITIONS ARE NOT AS SHOWN ON THE CONSTRUCTION DOCUMENTS.

AS BUILT

STANDARD ABBREVIATIONS

℄	CENTERLINE
(E)	EXISTING
AB	ANCHOR BOLT
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASD	ALLOWABLE STRESS DESIGN
BLDG	BUILDING
BLKG	BLOCKING
BN	BOUNDARY NAILING OR FASTENERS
BO	BOTTOM OF
BOT	BOTTOM
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DIA OR Ø	DIAMETER
DIAG	D


68'-0"
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30'-10"
55'-5 7/8"
73'-3"
43'-11 3/8"
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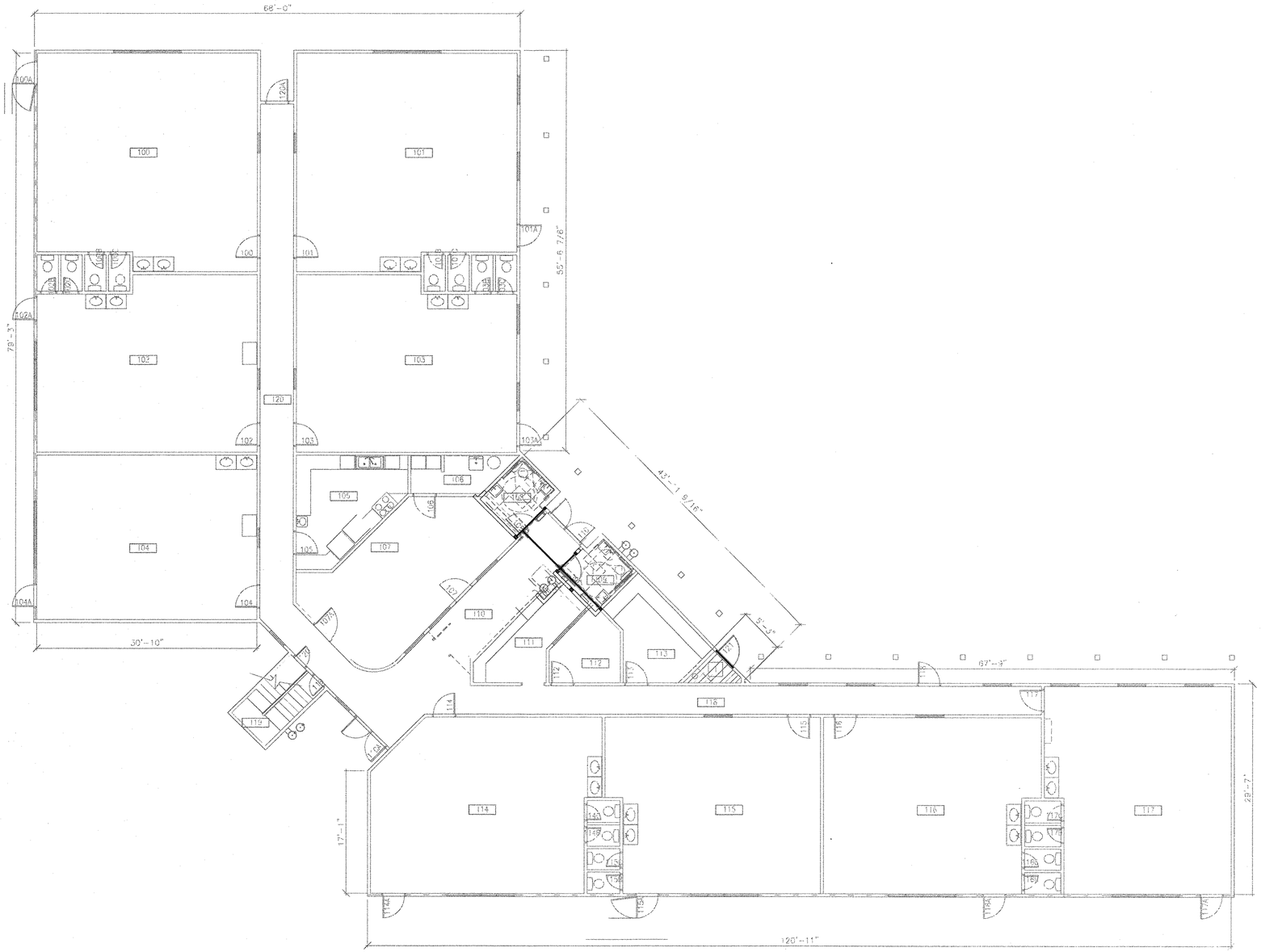

OVERALL FRAMING PLAN VIEW SCALE 1/8" = 1'-0"

AS BUILT

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03/16/2016

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DEPARTMENT OF PUBLIC WORKS

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DATE	01/27/2016
SCALE	
BID NO	
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	S1.1

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FOOTING SCHEDULE

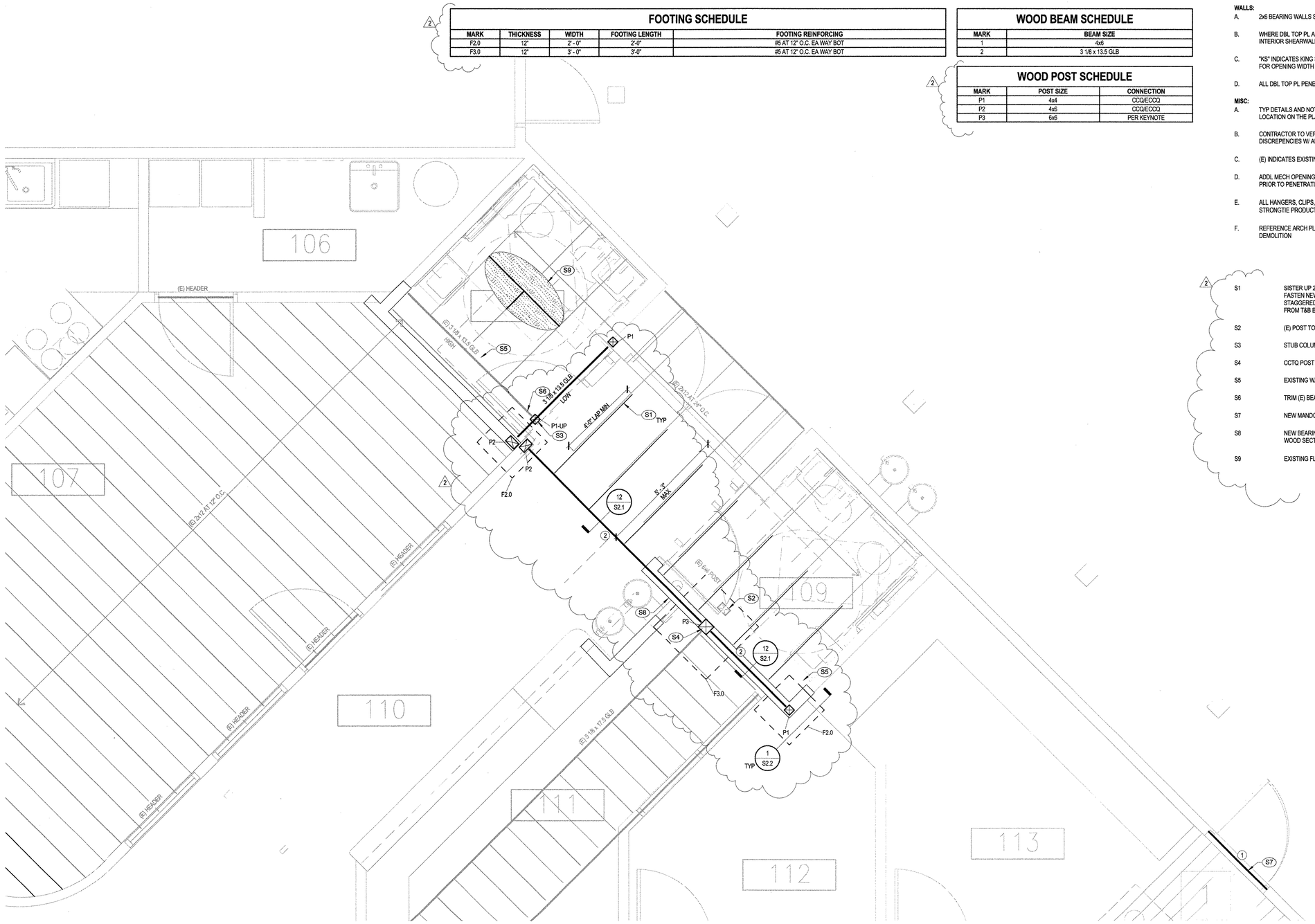
MARK	THICKNESS	WIDTH	FOOTING LENGTH	FOOTING REINFORCING
F2.0	12"	2' - 0"	2'-0"	#5 AT 12" O.C. EA WAY BOT
F3.0	12"	3' - 0"	3'-0"	#5 AT 12" O.C. EA WAY BOT

WOOD BEAM SCHEDULE

MARK	BEAM SIZE
1	4x6
2	3 1/8 x 13.5 GLB

WOOD POST SCHEDULE

MARK	POST SIZE	CONNECTION
P1	4x4	CCQ/ECCQ
P2	4x6	CCQ/ECCQ
P3	6x6	PER KEYNOTE



PARTIAL FRAMING PLAN VIEW SCALE: 1/2" = 1'-0"

AS BUILT

FLOOR FRAMING PLAN NOTES

WALLS:

A. 2x6 BEARING WALLS SHALL BE FRAMED AT 16" O.C. UNO.

B. WHERE DBL TOP PL ARE BROKEN, STEPPED, OR PENETRATED W/ PIPES AT THE EXTERIOR WALLS OR INTERIOR SHEARWALLS, CONNECT TOGETHER W/ SIMPSON MSTC40 OR TS22 STRAP, UNO.

C. "KS" INDICATES KING STUD. "TS" INDICATES TRIMMER STUD. 2x6 WALLS: PROVIDE MIN (1) KS AND (1) TS FOR OPENING WIDTH UP TO 6'-0".

D. ALL DBL TOP PL PENETRATIONS SHALL BE PER "TYPICAL HOLE IN DOUBLE TOP PLATE" DETAIL.

MISC:

A. TYP DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON THE PLANS.

B. CONTRACTOR TO VERIFY ALL DIMS AND CONDITIONS PRIOR TO CONSTRUCTION. RESOLVE ANY DISCREPENCIES W/ ARCHITECTS.

C. (E) INDICATES EXISTING STRUCTURE.

D. ADDL MECH OPENINGS IN DECK OR WALLS NOT SHOWN SHALL BE COORDINATED W/ THE ENGINEER PRIOR TO PENETRATING STRUCTURE.

E. ALL HANGERS, CLIPS, AND STRAP CONNECTORS ON THE PLANS AND SHOWN IN DETAIL ARE SIMPSON STRONGTIE PRODUCTS UNO.

F. REFERENCE ARCH PLANS FOR DEMOLITION INFO. ALL ELEMENTS TO BE PROPERLY SHORED PRIOR TO DEMOLITION

KEYNOTES

S1 SISTER UP 2x12 AT EXISTING JOISTS. LAP 4'-0" MIN. EXTEND NEW JOIST AS SHOWN. FASTEN NEW JOIST TO EXISTING JOIST W/ 1/4"Ø x3" SDS SCREWS AT 4" O.C., T&B STAGGERED. MIN (24) SCREWS TOTAL PER LAP. LOCATE EA ROW OF SCREWS 1 1/2" FROM T&B EDGE OF JOIST.

S2 (E) POST TO BE REMOVED. TRIM END OF (E) GLULAM BEAM AS NEEDED.

S3 STUB COLUMN WITH CCQ POST CAP TOP AND BOTTOM.

S4 CCTQ POST CAP.

S5 EXISTING WALLS TO BE DEMO'D.

S6 TRIM (E) BEAM AND END IN POST CAP.

S7 NEW MANDOOR OPENING (3'-4" MAX WIDTH).

S8 NEW BEARING WALL PER PLAN NOTE, TYP. ANCHOR BOT PL TO (E) SLAB PER GSN, WOOD SECTION.

S9 EXISTING FLOOR SHEATHING TO REMAIN.

PLANS APPROVED STRUCTURAL Building & Safety Dept. City of Las Vegas, Nevada NMM DEC 28 2016 Does not include Electrical, Architectural, Plumbing/Mechanical, or Civil Improvements, which require separate approval & Permit at Las Vegas Any Changes Not Approved

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SEAL: PROFESSIONAL ENGINEER STATE OF NEVADA GREGG MEYER Exp. 12/31/17 CIVIL/ STRUCTURAL No. 15053

12/19/2016

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SCALE	
BID NO	
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	S1.2

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FOOTING SCHEDULE

MARK	THICKNESS	WIDTH	FOOTING LENGTH	FOOTING REINFORCING
F2.0	12"	2' - 0"	2'-0"	#5 AT 12" O.C. EA WAY BOT

WOOD BEAM SCHEDULE

MARK	BEAM SIZE
1	4x6
2	3 1/8 x 13.5 GLB

WOOD POST SCHEDULE

MARK	POST SIZE	CONNECTION
P1	4x4	ECCQ POST CAP, UNO
P2	4x6	ECCQ POST CAP, UNO

PARTIAL FRAMING PLAN VIEW ES² SCALE: 1/2" = 1'-0"

FLOOR FRAMING PLAN NOTES

WALLS:

A. 2x6 BEARING WALLS SHALL BE FRAMED AT 16" O.C. UNO.

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C. "KS" INDICATES KING STUD, "TS" INDICATES TRIMMER STUD. 2x6 WALLS: PROVIDE MIN (1) KS AND (1) TS FOR OPENING WIDTH UP TO 6'-0".

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E. ALL HANGERS, CLIPS, AND STRAP CONNECTORS ON THE PLANS AND SHOWN IN DETAIL ARE SIMPSON STRONGTIE PRODUCTS UNO.

F. REFERENCE ARCH PLANS FOR DEMOLITION INFO. ALL ELEMENTS TO BE PROPERLY SHORED PRIOR TO DEMOLITION

KEYNOTES

S1 (E) BEAM TO EXTEND CONTINUOUS OVER NEW POST.

S2 (E) POST TO BE REMOVED. TRIM END OF (E) GLULAM BEAM AS NEEDED FOR NEW BEAM INSTALLATION. NO HANGER REQ'D.

S3 HUS212-2 HANGER.

S4 CCQ POST CAP.

S5 EXISTING WALLS TO BE DEMO'D.

S6 TRIM (E) BEAM AND HANG INTO NEW BEAM AS SHOWN.

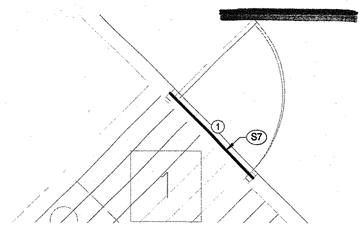
S7 NEW MANDOOR OPENING (3'-4" MAX WIDTH).

S8 NEW BEARING WALL PER PLAN NOTE, TYP. ANCHOR BOT PL TO (E) SLAB PER GSN, WOOD SECTION.

S9 EXISTING FLOOR SHEATHING TO REMAIN.

SPECIAL INSPECTION/OAA IS REQUIRED

1. **Post-installed anchors (that City of Las Vegas' staff performs)** (expansion anchors and/or concrete screws and/or epoxy anchors) in hardened concrete per the Evaluation Report (I.C.C. and/or I.A.P.M.O. and/or City of Los Angeles and manufacturer's specifications) **call the City of Las Vegas' Express Inspections at 702-229-6914 to schedule.** A post-installed anchors inspection is scheduled as a #160 Express Inspection and charged at one hundred sixty dollars ($160.00) per hour for dispatch scheduled.160 inspections with one (1) hour minimum.
2. **Other special inspections (that City of Las Vegas' staff performs)** as indicated on the approved structural plans are scheduled as a #155 City of Las Vegas' Express Inspections and charged at three hundred seventeen dollars ($317.00) per dispatch scheduled inspection with two (2) hours minimum for 155 inspections. **Call the City of Las Vegas' Express Inspections at 702-229-6914 to schedule.**
3. **Approved steel fabricator** is a fabricator that is approved by the American Institute of Steel Construction (A.I.S.C.) and/or Clark County Department of Building and Fire Prevention Bureau's Building Official, Las Vegas, Nevada (CC) and/or International Accreditation Services (I.A.S.) and/or International Code Council (I.C.C.) and/or International Association of Plumbing and Mechanical Officials (I.A.P.M.O.) and/or City of Los Angeles.
4. If the steel fabricator is not an approved steel fabricator, then **inspection of non-approved fabricator's fabrication facility is required by a third party QAA/special inspection agency** (per IBC Sections 1704.2.4, 1704.2.5, 1704.2.5.1, Clark County Technical Guidelines and/or AISC 341 and/or AISC 360 and/or and if approved by the City of Las Vegas, other nationally recognized code/standard evaluation/listing agency).
5. **Approved precast and pre-stressed concrete fabricator** is a fabricator that is approved by the Precast/Prestressed Concrete Institute (P.C.I.) and/or Clark County Department of Building and Fire Prevention Bureau's Building Official, Las Vegas, Nevada (CC) and/or International Accreditation Services (I.A.S.) and/or International Code Council (I.C.C.) and/or International Association of Plumbing and Mechanical Officials (I.A.P.M.O.) and/or City of Los Angeles.
6. All work falling within the categories identified on the approved structural plans, calculations and specifications shall be inspected and/or tested in accordance with the provisions of Chapter 17 of the International Building Code (I.B.C.), City of Las Vegas' adopting ordinances and IBC referenced standards.
7. If a **third party OAA/special inspections** (special inspections that the City of Las Vegas staff does not perform) are required as identified in approved structural plans, calculations and specifications then each special inspection agency shall be approved by the Clark County Department of Building and Fire Prevention Bureau's Building Official (Clark County Building Official) and pursuant to the Clark County's Technical Guidelines (TG) including, but not limited to TG-016 and TG-016A, prior to permit issuance and prior to performing any duties. Special inspectors shall display approved identification, as stipulated by the Clark County Building Official, when performing the function of a special inspector.
8. Special inspection and testing shall meet the minimum requirements of I.B.C. Chapter 17 and, including, but not limited to Clark County's Technical Guidelines TG-016 and TG-016A, City of Las Vegas' adopting ordinances and I.B.C. referenced standards.
9. If a **third party OAA/special inspections** (special inspections that the City of Las Vegas staff does not perform) are required as identified on the approved structural plans, calculations and specifications then all **Final OAA/Special Inspection reports are to be submitted** (for review and approval) to the City of Las Vegas' area Inspection Supervisor at the City of Las Vegas Development Services Center, 333 N. Rancho Dr., 2nd Floor, Las Vegas, NV 89106. The review fee is one hundred seventy six dollars ($176.00) per hour with a one hour minimum.
10. If there are **deferred submittals**, then all deferred submittals require engineering design (plans, calculations and specifications) by a Nevada Licensed Civil or Structural Engineer.
11. If there are **deferred submittals**, then all deferred submittals are to be reviewed and approved with no exceptions noted by the Engineer of Record.
12. If there are **deferred submittals** then inspection holds e.g. shear (109 inspection) and/or framing (120 inspection) and/or building final (140 inspection), will be in place until all deferred submittals are reviewed, approved (by the City of Las Vegas' staff) and fees are paid. Please allow up to four (4) weeks for review and approval process.



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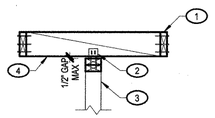
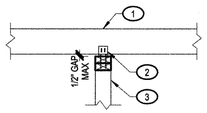


FRAMING PARALLEL TO NON-BEARING WALL



FRAMING PERPENDICULAR TO NON-BEARING WALL

KEYNOTES:

1. TRUSS BOT CHORD, JOIST, OR RAFTER PER PLAN
2. SIMPSON "DTC" TRUSS CLIP AT 24" O.C. MAX W/ (4) 8d COMMON TO PL AND (2) 8d COMMON TO TRUSS CHORD
3. INTERIOR NON-BEARING WALL
4. 2x BLKG W/ (3) 16d EA END

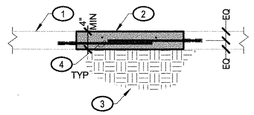
NOTES:

A. NAILS TO TRUSS ARE NOT TO BE DRIVEN TIGHT. TRUSS MUST MOVE FREELY. INSTALL NAIL IN CENTER OF SLOT
B. 2x4 WALL STUDS AT 16" O.C. SHALL HAVE A MAX HT OF 13'-0". 2x6 WALL STUDS AT 16" O.C. SHALL HAVE A MAX HT OF 22'-0"

CONNECTION	NAILING
JOIST OR TRUSS BEARING ON PL OR GIRDER, TOENAIL	(3) 16d
BRIDGING TO JOIST, TOENAIL EA END	(2) 8d
SOLE PL TO JOIST OR BLKG, FACE NAIL	16d AT 16" OR 3"-8d AT 8" O.C.
TOP PL TO STUD, END NAIL TO EA STUD	(2) 16d OR (3) 3"-8d
STUD TO SOLE PL	(4) 8d TOENAILS OR (2) 16d END NAILS OR (3) 3"-8d END NAILS
STUD TO 3x SOLE PL, END NAIL	(2) 20d
DBL STUDS, FACE NAIL, UNO	16d AT 24" OR 3"-8d AT 8" O.C.
DBL TOP PL, FACE NAIL, UNO	16d AT 16" OR 3"-8d AT 12" O.C.
TOP PL, LAPS AND INTERSECTIONS, FACE NAIL	(2) 16d OR (3) 3"-8d
CEILING JOISTS TO PL, TOENAIL	(3) 8d
CONT HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d OR (4) 3"-8d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d OR (4) 3"-8d
RAFTER OR TRUSS TO PL, TOE NAIL	(3) 8d
BUILT-UP CORNER STUDS, UNO	16d AT 24" OR 3"-8d AT 16" O.C.
KING STUD/POST TO HEADER	(6) 16d FACE NAIL OR (10) 16d TOE NAIL
KING STUD/POST TO TRIMMER STUD/ POST	16d FACE NAIL AT 24" O.C. OR 16d TOE NAIL AT 12" O.C.
MULTIPLE KING STUDS AND/OR TRIMMER STUDS	16d FACE NAIL AT 24" O.C. OR 16d TOE NAIL AT 12" O.C.

NOTES:

A. MIN NAILING SPECIFIED HERE IN SHALL BE PROVIDED UNO ON PLANS, DETAILS, OR GSN. 8d COMMON NAILS TO BE USED. 16d NAILS MAY BE EITHER COMMON OR SINKER
B. NAILING NOT NOTED OTHERWISE SHALL BE PER IBC TABLE 2304.9.1



KEYNOTES:

1. (E) CONCRETE SLAB
2. SLAB ON GRADE POUR BACK. MATCH (E) SLAB THICKNESS. PROVIDE #3 BARS AT 18" O.C. EA WAY (2) MIN PER NEW SLAB SECTION. LAP W/ DOWELS PER GSN
3. COMPACTED SUBGRADE PER GSN
4. #3x21" DOWEL AT 18" O.C. DRILL AND EPOXY USING SIMPSON SET-XP (ICC ESR-2508). MIN EMBED 4"

NOTES:

A. DO NOT SAW CUT SLAB WHERE (E) FTGS OCCUR

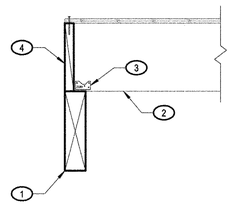
NOTES:

A. VALUES IN TABLE ARE IN INCHES. LENGTHS BASED ON 60 GRADE REINF (NOT COATED) WITH CLASS B LAP SPLICES
B. TOP REINF IS DEFINED AS HORIZ REINF W/ MORE THAN 12" OF CONC BELOW
C. CONC STRENGTH SELECTED IN TABLE SHALL NOT EXCEED DESIGN CONC STRENGTH

REBAR LAP LENGTH SCHEDULE
NORMAL-WEIGHT CONCRETE[C] (145 PCF)

BAR	MIN CLR COVER	MIN BAR SPACING	f'c = 2500 PSI		f'c = 4000 PSI	
			TOP [B]	OTHER	TOP [B]	OTHER
#3	1.5	4.5	20	16	16	12
#4	1.5	4.0	26	20	20	16
#5	1.5	3.8	32	24	26	20
#6	2.0	3.0	46	36	38	28
#7	2.0	3.5	68	52	54	42
#8	2.0	3.0	102	78	82	62
#9	2.0	3.4	116	88	92	70
#10	2.0	3.8	130	100	102	80
#11	2.0	4.2	144	110	114	88

11 S2.1 NON-BEARING PARTITION WALL CONNECTION
TDW017



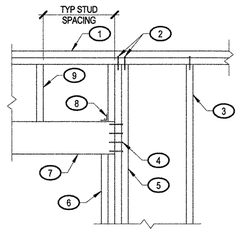
KEYNOTES:

1. BEAM PER PLAN
2. (E) JOIST AND FLR SHEATHING PER PLAN
3. A34 CLIP AT EA JOIST
4. FULL DEPTH BLKG BETWEEN JOISTS. FASTEN TO BEAM W/ A35 CLIP AT 24" O.C.

NOTES:

A. ALL ELEMENTS TO BE PROPERLY SHORED PRIOR TO DEMOLITION
B. OTHER FRAMING AS OCCURS, NOT SHOWN FOR CLARITY

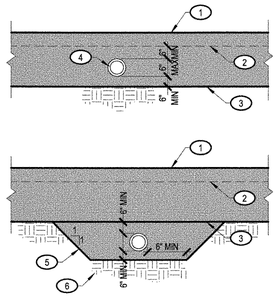
7 S2.1 MINIMUM NAILING SCHEDULE
TDW003



KEYNOTES:

1. CONT DBL 2x TOP PL PER TYPICAL LAP SPLICE DETAIL
2. ATTACH TOP PL PER TYP NAILING SCHED UNO
3. 2x WOOD STUD WALL PER PLAN
4. (2) VERT ROWS OF 16d NAILS AT 2" O.C. INTO END OF BEAM
5. WOOD KING STUD(S) PER PLAN ATTACH DBL STUDS TOGETHER PER TYP NAILING SCHED
6. WOOD POST OR TRIMMERS PER PLAN
7. WOOD BEAM PER PLAN
8. A35 CLIP EA END OF HEADER
9. CRIPPLE STUDS TO MATCH STUD SPACING

4 S2.1 TYPICAL SLAB ON GRADE AT SAW CUT AND POUR BACK
TDC012



KEYNOTES:

1. TOP OF (E) SLAB
2. BOT OF (E) SLAB/ TOP OF (E) FTG
3. BOT OF (E) FTG
4. UTILITY PIPE W/ SLEEVE AS OCCURS. CORE-DRILL HOLE, NOT TO EXCEED MAX DIM SHOWN.
5. CAST NEW CONC. FTG UNDER (E) FTG WHERE REQ'D.
6. PROPEERLY PREPARED SUBGRADE

NOTES:

A. PRIOR TO CORE DRILLING OPERATION EXISTING REINF SHALL BE LOCATED. (E) REINF SHALL NOT BE DAMAGED DURING CORE-DRILLING OPERATORS.

1 S2.1 CONCRETE REBAR LAP SCHEDULE
TDC001

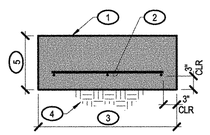
MININUM REINFORCING COVER

STRUCTURAL ELEMENT	COVER	TOLERANCE
FOOTING AND SLAB ON GRADE	3"	3/8"
WALLS (#5 OR SMALLER)	1 1/2"	3/8"
WALLS (#6 OR LARGER)	2"	1/2"
BEAMS AND COLUMNS	1 1/2"	3/8"
ELEVATED SLABS	3/4"	3/8"

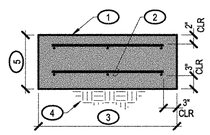
12 S2.1 BEAM AT EXISTING JOIST

KEYNOTES:

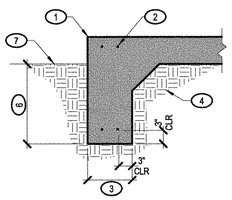
1. CONSTRUCTION ABOVE FOOTING PER PLAN AND FTG DETAILS
2. FTG REINF
3. FTG WIDTH AND/OR LENGTH PER FTG SCHED
4. COMPACTED SUBGRADE PER GSN
5. FTG THICKNESS PER FTG SCHED
6. MIN FTG EMBEDMENT DEPTH PER PLAN
7. T.O. FINAL COMPACTED SUBGRADE



FTG W/ BOT STL



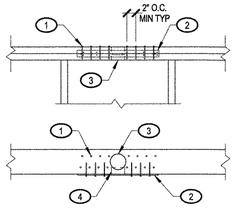
FTG W/ T&B STL



TYP TURNED-DOWN FTG

13 S2.1 TYPICAL FOUNDATION
TDC006

8 S2.1 TYPICAL WOOD HEADER AT WOOD POST
TDW008



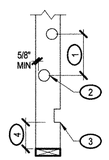
KEYNOTES:

1. FACE NAIL TOP PL TOGETHER W/ (10) 16d MIN EA SIDE OF PENETRATION (OR (6) SDS1/4x3). STAGGER NAILS AND SPACE EVENLY TO AVOID SPLITTING
2. INSTALL (1) SIMPSON RPS18 STRAP ACROSS PENETRAION AT BOTH TOP PL. CENTER STRAP ACROSS PENETRATION AND NAIL PER MFR
3. 2 1/4"Ø MAX HOLE CENTERED IN WALL THROUGH DBL 2x4 TOP PL. 3 1/2"Ø MAX HOLE CENTERED IN WALL THROUGH DBL 2x6 TOP PL
4. 3" WIDE MAX x 1 1/2" DEEP MAX NOTCH MAY BE INSTALLED IN DBL 2x4 TOP PL FOR HVAC LINE SETS IN LIEU OF HOLE PER KEYNOTE 1. NOTCH MAY BE 4" WIDE x 2 1/2" DEEP MAX AT DBL 2x6 TOP PL

NOTES:

A. A MAX 1"Ø HOLE THROUGH 2x4 DBL TOP PL AND 2"Ø HOLE THROUGH 2x6 DBL TOP PL MAY BE INSTALLED W/O THE STRUCTURAL SPECS ABOVE, PROVIDED THAT THE HOLE IS CENTERED IN THE TOP PL WIDTH
B. FOR NOTCHES (OR OVERBORED A. HOLES) UP TO 6 1/2" WIDE x 4 1/4" DEEP AT 2x6 TOP PL, PROVIDE (2) SIMPSON RPS26 STRAPS PER MFR (ONE EA PLATE). ALIGN A STUD AT EA SIDE OF THE NOTCH

9 S2.1 TYPICAL HOLE IN DOUBLE TOP PLATE
TDW013



KEYNOTES:

1. 16" MIN BETWEEN HOLES
2. MAX HOLE DIA SHALL BE 40% OF STUD WIDTH, 60% OF STUD WIDTH IF STUD IS DOUBLED UP TO AND NO MORE THAN (2) SUCCESSIVE DOUBLED-UP STUDS ARE BORED. MAX HOLE DIA SHALL BE 50% FOR A SINGLE STUD W/ A SIMPSON HSS2-SDS1.5 STUD SHOE
3. MAX NOTCH SHALL BE 25% OF STUD WIDTH. MAX NOTCH SHALL BE 50% FOR A DOUBLED-UP W/ A SIMPSON HSS2-2-SDS3
4. NOTCHES SHALL BE LOCATED IN TOP OR BOTTOM 1/4 OF STUD HT ONLY

NOTES:

A. REMAINING WOOD AT HOLE/NOTCH SHALL BE UNDAMAGED
B. HOLES SHALL NOT BE LOCATED WITHIN 2'-0" OF A NOTCH
C. DO NOT OVERCUT NOTCHES

%	2x4	2x6
25%	7/8"	1 3/8"
40%	1 3/8"	2 3/16"
50%	1 3/4"	2 3/4"
60%	2 1/16"	3 1/4"

10 S2.1 TYP HOLE OR NOTCH IN BEARING WALL/STRUCTURAL STUD
TDW015

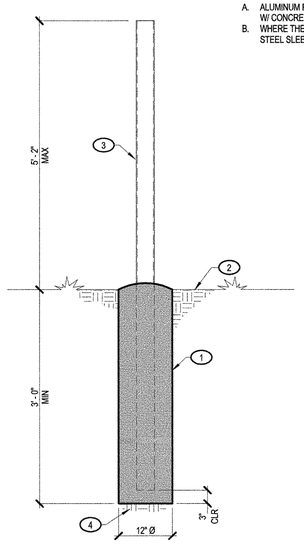
5 S2.1 UTILITY PIPE AT FOOTING

KEYNOTES:

1. CONCRETE POST FOOTING, VERIFY LOCATIONS W/ ARCH. CROWN CONC AT TOP AS SHOWN
2. FINISH GRADE PER ARCH OR CIVIL
3. FENCE POST PER ARCH. EMBED IN FTG AS SHOWN. 10'-0" MAX SPACING
4. COMPACTED SUBGRADE PER GSN

NOTES:

A. ALUMINUM POSTS SHALL NOT BE IN DIRECT CONTACT W/ CONCRETE
B. WHERE THE FENCE POST IS TO BE ALUMINUM, PROVIDE STEEL SLEEVE EMBEDDED IN TO FTG.



AS BUILT

6 S2.1 TYPICAL FENCE POST FOOTING

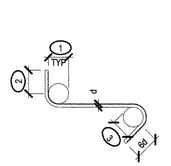
2 S2.1 MINIMUM COVER FOR REINFORCING STEEL
TDC003

KEYNOTES:

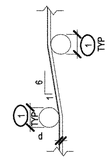
1. MIN FINISHED BEND DIA: 8d FOR #3 THRU #8; 10d FOR #9, 10 AND 11; 12d FOR #14 AND #18
2. EXTENSION 6d FOR #5 AND SMALLER, 12d FOR #6 THROUGH #8
3. MIN FINISHED BEND DIA FOR STIRRUPS AND TIES ONLY 5d FOR #5 AND SMALLER 6d FOR #6 THROUGH #8

NOTES:

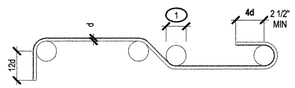
A. d = BAR DIA
B. ALL REINF SHALL BE BENT COLD UNO ON PLANS OR DETAILS
C. REINF SHALL NOT BE UN-BENT OR RE-BENT



STIRRUP AND TIE HOOKS



OFFSET BAR



ALL OTHER REINF

3 S2.1 STANDARD REBAR BENDING DETAILS
TDC004

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CITY OF LAS VEGAS NEVADA

REVISIONS
1 PLAN REVIEW REVISIONS 3/14/2016
2 PLAN REVIEW REVISIONS 12/15/2016

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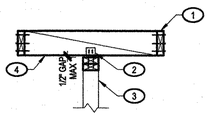
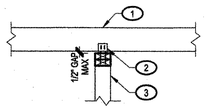
KEY # 580425 #160
229-6914 EPOXY
160th GLENDA



FRAMING PARALLEL TO NON-BEARING WALL



FRAMING PERPENDICULAR TO NON-BEARING WALL

KEYNOTES:

1. TRUSS BOT CHORD, JOIST, OR RAFTER PER PLAN
2. SIMPSON "DTC" TRUSS CLIP AT 24" O.C. MAX W/ (4) 8d COMMON TO PL AND (2) 8d COMMON TO TRUSS CHORD
3. INTERIOR NON-BEARING WALL
4. 2x BLKG W/ (3) 16d EA END

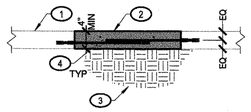
NOTES:

A. NAILS TO TRUSS ARE NOT TO BE DRIVEN TIGHT. TRUSS MUST MOVE FREELY. INSTALL NAIL IN CENTER OF SLOT
B. 2x4 WALL STUDS AT 16" O.C. SHALL HAVE A MAX HT OF 13'-0". 2x6 WALL STUDS AT 16" O.C. SHALL HAVE A MAX HT OF 22'-0"

CONNECTION	NAILING
JOIST OR TRUSS BEARING ON PL OR GIRDER, TOENAIL	(3) 16d
BRIDGING TO JOIST, TOENAIL EA END	(2) 8d
SOLE PL TO JOIST OR BLKG, FACE NAIL	16d AT 16" OR 3"-8d AT 8" O.C.
TOP PL TO STUD, END NAIL TO EA STUD	(2) 16d OR (3) 3"-8d
STUD TO SOLE PL	(4) 8d TOENAILS OR (2) 16d END NAILS OR (3) 3"-8d END NAILS
STUD TO 3x SOLE PL, END NAIL	(2) 20d
DBL STUDS, FACE NAIL, UNO	16d AT 24" OR 3"-8d AT 8" O.C.
DBL TOP PL, FACE NAIL, UNO	16d AT 16" OR 3"-8d AT 12" O.C.
TOP PL, LAPS AND INTERSECTIONS, FACE NAIL	(2) 16d OR (3) 3"-8d
CEILING JOISTS TO PL, TOENAIL	(3) 8d
CONT HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d OR (4) 3"-8d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d OR (4) 3"-8d
RAFTER OR TRUSS TO PL, TOE NAIL	(3) 8d
BUILT-UP CORNER STUDS, UNO	16d AT 24" OR 3"-8d AT 16" O.C.
KING STUD/POST TO HEADER	(6) 16d FACE NAIL OR (10) 16d TOE NAIL
KING STUD/POST TO TRIMMER STUD/ POST	16d FACE NAIL AT 24" O.C. OR 16d TOE NAIL AT 12" O.C.
MULTIPLE KING STUDS AND/OR TRIMMER STUDS	16d FACE NAIL AT 24" O.C. OR 16d TOE NAIL AT 12" O.C.

NOTES:

A. MIN NAILING SPECIFIED HERE IN SHALL BE PROVIDED UNO ON PLANS, DETAILS, OR GSN. 8d COMMON NAILS TO BE USED. 16d NAILS MAY BE EITHER COMMON OR SINKER
B. NAILING NOT NOTED OTHERWISE SHALL BE PER IBC TABLE 2304.9.1



KEYNOTES:

1. (E) CONCRETE SLAB
2. SLAB ON GRADE POUR BACK. MATCH (E) SLAB THICKNESS. PROVIDE #3 BARS AT 18" O.C. EA WAY (2) MIN PER NEW SLAB SECTION. LAP W/ DOWELS PER GSN
3. COMPACTED SUBGRADE PER GSN
4. #3x21" DOWEL AT 18" O.C. DRILL AND EPOXY USING SIMPSON SET-XP (ICC ESR-2508). MIN EMBED 4"

NOTES:

A. DO NOT SAW CUT SLAB WHERE (E) FTGS OCCUR

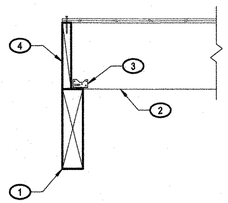
NOTES:

A. VALUES IN TABLE ARE IN INCHES. LENGTHS BASED ON 60 GRADE REINF (NOT COATED) WITH CLASS B LAP SPLICES
B. TOP REINF IS DEFINED AS HORIZ REINF W/ MORE THAN 12" OF CONC BELOW
C. CONC STRENGTH SELECTED IN TABLE SHALL NOT EXCEED DESIGN CONC STRENGTH

REBAR LAP LENGTH SCHEDULE
NORMAL-WEIGHT CONCRETE (145 PCF)

BAR	MIN CLR COVER	MIN BAR SPACING	f'c = 2500 PSI		f'c = 4000 PSI	
			TOP [B]	OTHER	TOP [B]	OTHER
#3	1.5	4.5	20	16	16	12
#4	1.5	4.0	26	20	20	16
#5	1.5	3.8	32	24	26	20
#6	2.0	3.0	46	36	36	28
#7	2.0	3.5	68	52	54	42
#8	2.0	3.0	102	78	82	62
#9	2.0	3.4	116	88	92	70
#10	2.0	3.8	130	100	102	80
#11	2.0	4.2	144	110	114	88

11 S2.1 NON-BEARING PARTITION WALL CONNECTION
TDW017



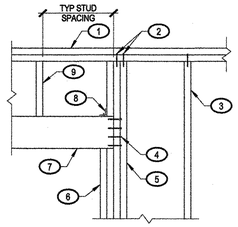
KEYNOTES:

1. BEAM PER PLAN
2. (E) JOIST AND FLR SHEATHING PER PLAN
3. A34 CLIP AT EA JOIST
4. FULL DEPTH BLKG BETWEEN JOISTS. FASTEN TO BEAM W/ A35 CLIP AT 24" O.C.

NOTES:

A. ALL ELEMENTS TO BE PROPERLY SHORED PRIOR TO DEMOLITION
B. OTHER FRAMING AS OCCURS, NOT SHOWN FOR CLARITY

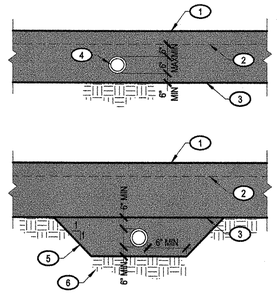
7 S2.1 MINIMUM NAILING SCHEDULE
TDW003



KEYNOTES:

1. CONT DBL 2x TOP PL PER TYPICAL LAP SPLICE DETAIL
2. ATTACH TOP PL PER TYP NAILING SCHED UNO
3. 2x WOOD STUD WALL PER PLAN
4. (2) VERT ROWS OF 16d NAILS AT 2" O.C. INTO END OF BEAM
5. WOOD KING STUD(S) PER PLAN ATTACH DBL STUDS TOGETHER PER TYP NAILING SCHED
6. WOOD POST OR TRIMMERS PER PLAN
7. WOOD BEAM PER PLAN
8. A35 CLIP EA END OF HEADER
9. CRIPPLE STUDS TO MATCH STUD SPACING

4 S2.1 TYPICAL SLAB ON GRADE AT SAW CUT AND POUR BACK
TDC012



KEYNOTES:

1. TOP OF (E) SLAB
2. BOT OF (E) SLAB/ TOP OF (E) FTG
3. BOT OF (E) FTG
4. UTILITY PIPE W/ SLEEVE AS OCCURS. CORE-DRILL HOLE, NOT TO EXCEED MAX DIM SHOWN.
5. CAST NEW CONC. FTG UNDER (E) FTG WHERE REQ'D.
6. PROPEERLY PREPARED SUBGRADE

NOTES:

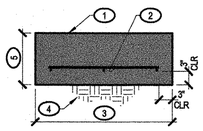
A. PRIOR TO CORE DRILLING OPERATION EXISTING REINF SHALL BE LOCATED. (E) REINF SHALL NOT BE DAMAGED DURING CORE-DRILLING OPERATORS.

1 S2.1 CONCRETE REBAR LAP SCHEDULE
TDC001

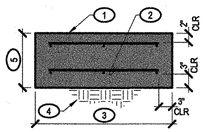
MININUM REINFORCING COVER

STRUCTURAL ELEMENT	COVER	TOLERANCE
FOOTING AND SLAB ON GRADE	3"	3/8"
WALLS (#5 OR SMALLER)	1 1/2"	3/8"
WALLS (#6 OR LARGER)	2"	1/2"
BEAMS AND COLUMNS	1 1/2"	3/8"
ELEVATED SLABS	3/4"	3/8"

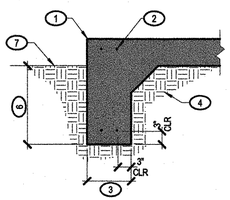
12 S2.1 BEAM AT EXISTING JOIST



FTG W/ BOT STL



FTG W/ T&B STL

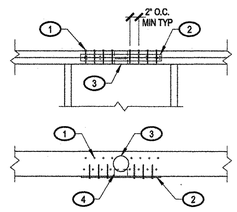


TYP TURNED-DOWN FTG

KEYNOTES:

1. CONSTRUCTION ABOVE FOOTING PER PLAN AND FTG DETAILS
2. FTG REINF
3. FTG WIDTH AND/OR LENGTH PER FTG SCHED
4. COMPACTED SUBGRADE PER GSN
5. FTG THICKNESS PER FTG SCHED
6. MIN FTG EMBEDMENT DEPTH PER PLAN
7. T.O. FINAL COMPACTED SUBGRADE

8 S2.1 TYPICAL WOOD HEADER AT WOOD POST
TDW008



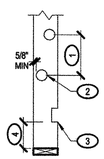
KEYNOTES:

1. FACE NAIL TOP PL TOGETHER W/ (10) 16d MIN EA SIDE OF PENETRATION (OR (6) SDS1/4x3). STAGGER NAILS AND SPACE EVENLY TO AVOID SPLITTING
2. INSTALL (1) SIMPSON RPS18 STRAP ACROSS PENETRAION AT BOTH TOP PL. CENTER STRAP ACROSS PENETRATION AND NAIL PER MFR
3. 2 1/4"Ø MAX HOLE CENTERED IN WALL THROUGH DBL 2x4 TOP PL. 3 1/2"Ø MAX HOLE CENTERED IN WALL THROUGH DBL 2x6 TOP PL
4. 3" WIDE MAX x 1 1/2" DEEP MAX NOTCH MAY BE INSTALLED IN DBL 2x4 TOP PL FOR HVAC LINE SETS IN LIEU OF HOLE PER KEYNOTE 1. NOTCH MAY BE 4" WIDE x 2 1/2" DEEP MAX AT DBL 2x6 TOP PL

NOTES:

A. A MAX 1"Ø HOLE THROUGH 2x4 DBL TOP PL AND 2"Ø HOLE THROUGH 2x6 DBL TOP PL MAY BE INSTALLED W/O THE STRUCTURAL SPECS ABOVE, PROVIDED THAT THE HOLE IS CENTERED IN THE TOP PL WIDTH
B. FOR NOTCHES (OR OVERBORED A. HOLES) UP TO 6 1/2" WIDE x 4 1/4" DEEP AT 2x6 TOP PL, PROVIDE (2) SIMPSON RPS28 STRAPS PER MFR (ONE EA PLATE). ALIGN A STUD AT EA SIDE OF THE NOTCH

9 S2.1 TYPICAL HOLE IN DOUBLE TOP PLATE
TDW013



KEYNOTES:

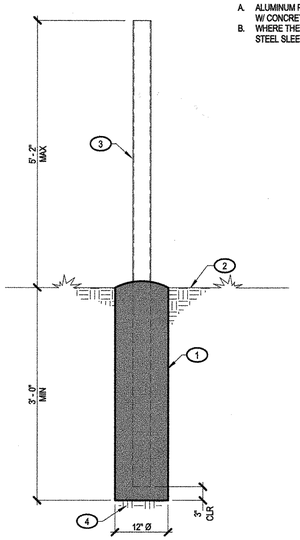
1. 16" MIN BETWEEN HOLES
2. MAX HOLE DIA SHALL BE 40% OF STUD WIDTH, 60% OF STUD WIDTH IF STUD IS DOUBLED UP TO AND NO MORE THAN (2) SUCCESSIVE DOUBLED-UP STUDS ARE BORED. MAX HOLE DIA SHALL BE 50% FOR A SINGLE STUD W/ A SIMPSON HSS2-SDS1.5 STUD SHOE
3. MAX NOTCH SHALL BE 25% OF STUD WIDTH. MAX NOTCH SHALL BE 50% FOR A DOUBLED-UP W/ A SIMPSON HSS2-2-SDS3
4. NOTCHES SHALL BE LOCATED IN TOP OR BOTTOM 1/4 OF STUD HT ONLY

NOTES:

A. REMAINING WOOD AT HOLE/NOTCH SHALL BE UNDAMAGED
B. HOLES SHALL NOT BE LOCATED WITHIN 2'-0" OF A NOTCH
C. DO NOT OVERCUT NOTCHES

%	2x4	2x6
25%	7/8"	1 3/8"
40%	1 3/8"	2 3/16"
50%	1 3/4"	2 3/4"
60%	2 1/16"	3 1/4"

5 S2.1 UTILITY PIPE AT FOOTING



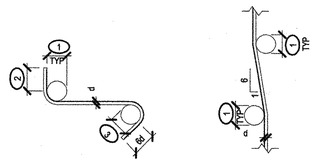
KEYNOTES:

1. CONCRETE POST FOOTING, VERIFY LOCATIONS W/ ARCH. CROWN CONC AT TOP AS SHOWN
2. FINISH GRADE PER ARCH OR CIVIL
3. FENCE POST PER ARCH. EMBED IN FTG AS SHOWN. 10'-0" MAX SPACING
4. COMPACTED SUBGRADE PER GSN

NOTES:

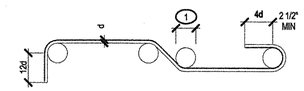
A. ALUMINUM POSTS SHALL NOT BE IN DIRECT CONTACT W/ CONCRETE
B. WHERE THE FENCE POST IS TO BE ALUMINUM, PROVIDE STEEL SLEEVE EMBEDDED IN TO FTG.

2 S2.1 MINIMUM COVER FOR REINFORCING STEEL
TDC003



STIRRUP AND TIE HOOKS

OFFSET BAR



ALL OTHER REINF

KEYNOTES:

1. MIN FINISHED BEND DIA; 8d FOR #3 THRU #8; 10d FOR #9, 10 AND 11; 12d FOR #14 AND #18
2. EXTENSION 6d FOR #5 AND SMALLER, 12d FOR #6 THROUGH #8
3. MIN FINISHED BEND DIA FOR STIRRUPS AND TIES ONLY 5d FOR #5 AND SMALLER 6d FOR #6 THROUGH #8

NOTES:

A. d = BAR DIA
B. ALL REINF SHALL BE BENT COLD UNO ON PLANS OR DETAILS
C. REINF SHALL NOT BE UN-BENT OR RE-BENT

3 S2.1 STANDARD REBAR BENDING DETAILS
TDC004

13 S2.1 TYPICAL FOUNDATION
TDC006

10 S2.1 TYP HOLE OR NOTCH IN BEARING WALL/STRUCTURAL STUD
TDW015

6 S2.1 TYPICAL FENCE POST FOOTING

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Gregory MEYER
Exp. 12/31/17
CIVIL/ STRUCTURAL
No. 15053
03/16/2016

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SCALE	
BID NO	
CLV DWG NO	521-301
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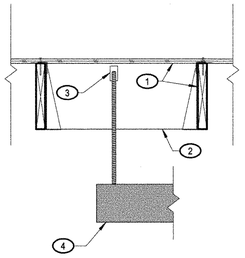
SHT NO	S2.1



KEYNOTES:

1. JOIST AND FLR SHEATHING PER PLAN
2. FULL DEPTH BLKG W/ HANGER BETWEEN JOISTS.
3. HANGER AND THREADED ROD. INSTALL PER MFR.
4. HOOD PER MECH NOT TO EXCEED 180#.

NOTES:

A. OTHER FRAMING AS OCCURS, NOT SHOWN FOR CLARITY
B. ALT: HANGER AND THREADED ROD TO ATTACH DIRECTLY TO JOIST.

2 / 5 S2.2 HOOD SUPPORT DETAIL

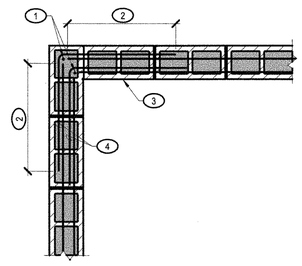
MASONRY REINFORCING LAP SCHEDULE

BAR	LAP LENGTH
#3	20"
#4	24"
#5	36"
#6	60"

NOTES:

A. LAP REINF BARS AS SHOWN IN TABLE. STAGGER HORIZ REINF LAP SPLICES A MIN OF 60 BAR DIA (UNO)
B. LENGTHS SHOWN ACCOMODATE A 2 1/2" MIN CLR COVER
C. f'm = 1500 PSI

3 / S2.2 MASONRY REBAR LAP SCHEDULE - LRFD
TDM001



KEYNOTES:

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2. LAP PER TYP DETAIL "MASONRY REBAR LAP SCHEDULE - LRFD"
3. MASONRY WALL PER PLAN
4. CORNER BARS TO MATCH SIZE AND SPACE OF HORIZ REINF IN WALL

NOTES:

A. GROUT SOLID (5) CELLS AT CORNER
B. 90° CORNER SHOWN, ALSO APPLICABLE AT OTHER CORNER ANGLES

4 / S2.2 PLAN - TYPICAL MASONRY CORNER
TDM002

MASONRY

BLOCK

UNITS SHALL BE HOLLOW, NORMAL WEIGHT, LOAD-BEARING UNITS CONFORMING TO ASTM C90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI.

ALL MASONRY UNITS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION WITH ALL VERTICAL CELLS IN ALIGNMENT UNLESS NOTED OTHERWISE.

MORTAR

MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF ASTM C270 AND ASTM C780 FOR FIELD TESTING, PER ASTMC780 UNLESS NOTED OTHERWISE.

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HOLD GROUT DOWN 1 1/2" BELOW TOP OF UNIT AT GROUT LIFT JOINTS.

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PROVIDE BENT BARS PER TYPICAL DETAILS TO MATCH AND LAP HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY UNLESS NOTED OTHERWISE.

LINTELS

MINIMUM LINTEL SHALL HAVE (2) #5 CONTINUOUS BARS (BOTTOM) AND SHALL BE SOLID GROUTED 48" DEEP.

ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 24" PAST JAMBS UNLESS NOTED OTHERWISE.

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DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL REINFORCING.

MISCELLANEOUS

LAP REINFORCING BARS PER TYPICAL MASONRY REBAR LAP SCHEDULE.

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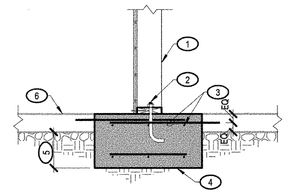

KEYNOTES

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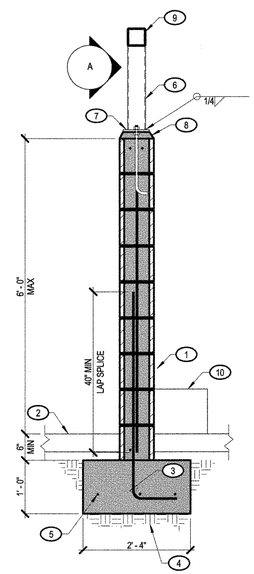
3. #4 DOWELS AT 12" O.C. EA WAY. DRILL AND POUND BARS INTO SNUG HOLE. 4" MIN EMBED
4. FTG AND REINF PER PLAN
5. MIN FTG EMBEDMENT DEPTH PER PLAN
6. (E) CONC SLAB ON GRADE PER PLAN

1 / S2.2 FOUNDATION AT EXISTING SLAB
WC204



KEYNOTES:

1. 8" THICK MASONRY WALL W/ #5 VERTS AT 16" O.C. CENTERED AND #5 HORIZ AT 48" O.C. MAX W/ (2) CONT #5 AT T.O. WALL SOLID GROUT WALL
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4. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
5. (3) #5 CONT
6. HSS 4x2x3/16 POST, LOCATION AND ORIENTATION PER ARCH PLANS. MAX HEIGHT 2' - 0"
7. PL 1/2x8x0' - 10" W/ (2) 5/8"Ø x12" EMBED ANCHOR BOLTS WITH LEVELING NUTS.
8. 1 1/2" MAX HIGH-STRENGTH, NON-SHRINK GROUT.
9. HSS 4x4x3/16 BEAM OR HSS4x2x3/16 BEAM AS OCCURS. SEE ARCH PLAN FOR LOCATION AND LAYOUT
10. CONCRETE CURB PER ARCH PLAN

NOTES:

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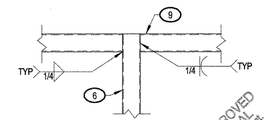

ELEVATION A

2 / S2.2 MASONRY TRASH ENCLOSURE WALL
MC108

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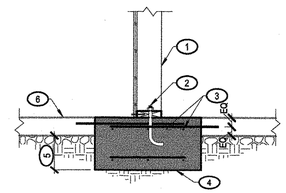

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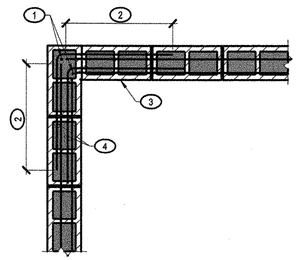
1 / 3 S2.2 MASONRY REBAR LAP SCHEDULE - LRFD

TDM001



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TDM002

1 / 1 S2.2 FOUNDATION AT EXISTING SLAB

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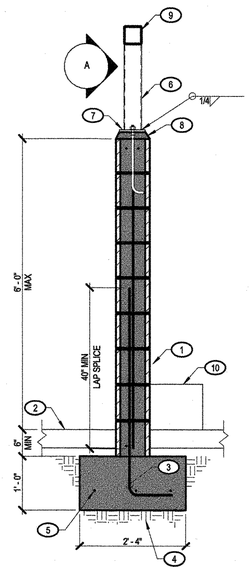

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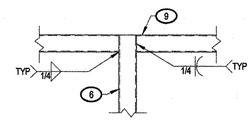

ELEVATION A

1 / 2 S2.2 MASONRY TRASH ENCLOSURE WALL

MC108

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HANSEN NO	60316
SHT NO	S2.2

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PLUMBING SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
	(-)	SHEET NOTE
	△	REVISION NUMBER
S OR W		SOIL, WASTE OR SEWER BELOW GRADE OR FLOOR
		SOIL, WASTE OR SEWER ABOVE GRADE OR FLOOR
CWV	CWV	COMBINATION WASTE AND VENT
GR	GR	GREASE WASTE BELOW GRADE OR FLOOR
	GR	GREASE WASTE ABOVE GRADE OR FLOOR
SD	SD	STORM DRAIN BELOW GRADE OR FLOOR
	SD	STORM DRAIN ABOVE GRADE OR FLOOR
OSD	OSD	OVERFLOW STORM DRAIN BELOW GRADE OR FLOOR
	OSD	OVERFLOW STORM DRAIN ABOVE GRADE OR FLOOR
V		VENT
CW		COLD WATER
HW		HOT WATER
HWR		HOT WATER RETURN
TW	T	TEMPERED WATER
TWR	T	TEMPERED WATER RETURN
SCW	S	SOFT COLD WATER
PD	PD	PUMPED DRAIN
D	D	DRAIN
PW	PW	PUMPED WASTE
ICW	ICW	INDUSTRIAL COLD WATER
NPW	NPW	NON-POTABLE WATER
G	G	LOW PRESSURE GAS
MG	MG	MEDIUM PRESSURE GAS
HPG	HPG	HIGH PRESSURE GAS
GV	GV	GAS PRESSURE REGULATOR VENT
F	F	FIRE LINE
CSP	CSP	COMBINATION STAND PIPE
		PIPING BELOW GRADE WITH HEAT TRACE
		PIPING ABOVE GRADE WITH HEAT TRACE
GC		GAS COCK
GPR		GAS PRESSURE REGULATOR
	M	GAS METER
		SOLENOID VALVE
HB		HOSE BIBB
RHB		RECESSED HOSE BIBBS
		REDUCED PRESSURE BACKFLOW PREVENTER
CO		CLEANOUT
WCO		WALL CLEANOUT
AD, OAD		AREA DRAIN, OVERFLOW AREA DRAIN
FD	/	FLOOR DRAIN/ABOVE
FS	/	FLOOR SINK/ABOVE
PD		PLANTER DRAIN
DD	/	DECK DRAIN/ABOVE
RD, ORD	/	ROOF DRAIN, OVERFLOW ROOF DRAIN/ABOVE
VTR		VENT THROUGH ROOF
FSR	F	FIRE SPRINKLER RISER
SOV		SHUT-OFF VALVE
		BALANCING VALVE ASSEMBLY - SOV, CV AND BV
BV		BALANCING VALVE
CV		CHECK VALVE
PRV		PRESSURE REDUCING VALVE
MX		MIXING VALVE
		RELIEF VALVE
		STRAINER WITH BLOW-DOWN VALVE
		FLEXIBLE PIPE CONNECTION
		UNION
		PIPE TRANSITION
PG		PRESSURE GAUGE
TH		THERMOMETER
WHA		WATER HAMMER ARRESTOR
		PIPE DOWN
		PIPE UP
		PIPE TEE UP
		PIPE TEE DOWN
		PIPE CAP
		ANCHOR

PLUMBING SYMBOL LEGEND (CONTINUED)

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
		GUIDE
		FLOW ARROW
POC		POINT OF CONNECTION TO EXISTING
POD	⊗	POINT OF DISCONNECTION FROM EXISTING
		ITEM TO BE REMOVED

(-) EQUIPMENT TYPE
EQUIPMENT NUMBER
E = EXISTING

(-) PLAN/RISER TYPE
SHEET/RISER NUMBER

SHEET INDEX

ISSUE: 2016-11-11 GENERAL REVISION	2016-07-08 ADDENDUM 1	2016-02-08 PERMIT ISSUE	SHEET NUMBER	SHEET DESCRIPTION
•	•	•	P0.00	COVER SHEET
	•	•	P0.01	GENERAL NOTES AND SCHEDULES
•	•	•	PD2.00	WASTE AND VENT DEMO PLANS
	•	•	PD3.00	DOMESTIC WATER DEMO PLANS
•	•	•	P2.00	WASTE AND VENT PLANS
	•	•	P3.00	DOMESTIC WATER PLANS
		•	P5.00	PLUMBING ISOMETRIC DIAGRAM
		•	P6.00	DESIGN DETAILS
		•	P6.01	DESIGN DETAILS

JCB

PLUMBING ABBREVIATION LIST

(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

AD	ACCESS DOOR / AREA DRAIN	IBC	INTERNATIONAL BUILDING CODE	S	SINK, SOIL
AFF	ABOVE FINISH FLOOR	IE	INVERT ELEVATION	SEER	SEASONAL ENERGY EFFICIENCY RATIO
AP	ACCESS PANEL	IFC	INTERNATIONAL FIRE CODE	SH	SHOWER / STATIC HEAD
AUTO	AUTOMATIC	IFGC	INTERNATIONAL FUEL GAS CODE	SP	STATIC PRESSURE
		IMC	INTERNATIONAL MECHANICAL CODE	SQ FT (#)	SQUARE FEET
BMS	BUILDING MANAGEMENT SYSTEM	IN	INCH	SS	SERVICE SINK / STAINLESS STEEL
BOH	BACK OF HOUSE	IPC	INTERNATIONAL PLUMBING CODE		
BOS	BOTTOM OF STEEL			T	TEMPERATURE
BTU	BRITISH THERMAL UNIT	KW	KILOWATT	TAB	TESTING AND BALANCING
				TDH	TOTAL DEVELOPED HEAD
°C	DEGREES CELSIUS	L	LENGTH, LAVATORY	TEL	TOTAL EQUIVALENT LENGTH
CFH	CUBIC FEET PER HOUR	LBS	POUNDS	TOS	TOP OF STEEL
CFM	CUBIC FEET PER MINUTE			TP	TRAP PRIMER
CP	CHROME PLATED	MAX	MAXIMUM	TS	TEMPERING STATION
		MBH	1000 BRITISH THERMAL UNITS PER HOUR	TYP	TYPICAL
DC	DIRECT CURRENT	MCA	MINIMUM CIRCUIT AMPS		
DDC	DIRECT DIGITAL CONTROL	MCC	MOTOR CONTROL CENTER	U	URINAL
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	MH	MANHOLE	UMC	UNIFORM MECHANICAL CODE
DF	DRINKING FOUNTAIN	MIN	MINIMUM	UNO	UNLESS NOTED OTHERWISE
DIA (ø)	DIAMETER	MOCP	MAXIMUM OVER CURRENT PROTECTION	UPC	UNIFORM PLUMBING CODE
DN	DOWN				
		NA	NOT APPLICABLE	V	VENT, VOLTS
E	EXISTING	NEC	NATIONAL ELECTRICAL CODE		
EFF	EFFICIENCY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	W	WIDTH, WASTE, WATT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	NIC	NOT IN CONTRACT	WC	WATER CLOSET
ET	EXPANSION TANK	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE	WFU	WATER FIXTURE UNITS
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H	HEIGHT				
HD	HEAD	RPM	REVOLUTIONS PER MINUTE		
HOA	HAND OFF AUTO				
HP	HORSEPOWER				
HR	HOUR				
HS	HAND SINK				
HZ	HERTZ				

PLANS APPROVED
PLUMBING/MECHANICAL
Building & Safety Dept.
City of Las Vegas, Nevada
NOV 21 2016
Does Not Include Architectural, Electrical, Structural or Civil Info
Improvements Make, No Changes Without Approval Plan is Not a Permit to Violate Any Ordinance

330357/63325.C.16

REVISIONS
NOV 21 2016
CITY OF LAS VEGAS
BUILDING DEPT.

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
1 07/08/2016 ADDENDUM
2 11/11/2016 GEN. REVISION

CONSULTANT
JBA Las Vegas
5155 W Patrick Ln
Las Vegas, NV 89118
p 702.362.9200
consulting engineers

DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

COVER SHEET

STAMP
PROFESSIONAL ENGINEER-STATE OF NEVADA
ALEXANDER JANKOVICH
EXP. 6-30-17
MECHANICAL
No. 13951
NOV 15 2016

OWNER: CITY OF LAS VEGAS
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333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	JU
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	P0.00

#15.0881

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BUILDING DEPT.

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H	HEIGHT				
HD	HEAD	RPM	REVOLUTIONS PER MINUTE		
HOA	HAND OFF AUTO				
HP	HORSEPOWER				
HR	HOUR				
HS	HAND SINK				
HZ	HERTZ				

use the ones Dated 7-8-16

P0.00
P0.01
PD2.00
PD3.00
P2.00
P3.00

Do not use this one

Add #3 plans dated 7-8-16 is the Right one

REVIEWED FOR CODE COMPLIANCE
APR 19 2016 DK
BUREAU VERITAS NORTH AMERICA, INC

AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

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JBA Las Vegas
5155 W Patrick Ln
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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
COVER SHEET

STAMP
PROFESSIONAL ENGINEER - STATE OF NEVADA
ALEXANDER JANKOWSKI
EXP. 6-30-17
MECHANICAL
No. 13951
FEB 05 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6339
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN JU
FILE
DATE 02/08/2016
SCALE
BID NO 15.60316.JH
CLV DWG NO 521-301
HANSEN NO 60316
SHT NO P0.00

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PLUMBING GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING PIPING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY. EXISTING PIPING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.
3. ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING PLUMBING FIXTURES AS REQUIRED. PLUMBING IN EXISTING WALLS AND UNDER GROUND SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING PIPING TO FIXTURES AND EQUIPMENT NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND PLUMBING ROUGH-IN LOCATIONS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL HANDICAPPED FIXTURES. OBTAIN EXACT FLOOR DRAIN AND FLOOR SINK LOCATIONS FROM FOOD SERVICE DRAWINGS. ROUGH-IN LOCATIONS FOR KITCHENS, BARS, ETC TO BE TAKEN FROM APPROVED FOOD SERVICE SHOP DRAWINGS.
5. THE PLUMBING DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
6. REFER TO CIVIL DRAWINGS FOR INVERT AT SITE UTILITY POINTS OF CONNECTION. PROVIDE OFFSET AND INCREASER FOR SEWER AS REQUIRED FOR CONNECTION TO CIVIL.
7. PROVIDE TRAP PRIMERS FOR AREAS OF INFREQUENT USE, INCLUDING FLOOR DRAINS IN RESTROOMS AND MECHANICAL ROOMS, EQUAL TO PRECISION PRODUCTS CO. "PRIME-RITE," WITH DISTRIBUTION UNITS FOR MULTIPLE FLOOR DRAINS AND FLOOR SINKS. TRAP PRIMER SHALL BE ACCESSIBLE AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. PROVIDE LINE SIZE SHUT-OFF VALVE AHEAD OF EACH TRAP PRIMER AND PRIMER LINE SHALL BE INSTALLED ON A COLD WATER LINE LESS THAN 2" DIAMETER. ALL ELECTRONIC TYPE TRAP PRIMERS SHALL BE PPP "PRIME-TIME ELECTRONIC TRAP PRIMING MANIFOLD" WITH FOUR (4) TO 30 OUTLETS, VACUUM BREAKER, 24 HOUR CLOCK, MANUAL OVERRIDE, SOLENOID VALVE, CALIBRATED MANIFOLD WITH 1/2" OUTLET COMPRESSION FITTINGS. PROVIDE 3/4" SHUT-OFF VALVE ON INLET. (ELECTRONIC TRAP PRIMERS TO BE LOCATED IN MECHANICAL ROOMS AND WHERE NOTED. PROVIDE RECESSED MOUNT IN STUD WALLS AND SURFACE MOUNT ON CONCRETE AND BLOCK WALLS.)
8. HOT AND COLD WATER SHUT-OFF VALVES AND HOT WATER RETURN THROTTLING VALVES SHALL BE LOCATED TO BE EASILY ACCESSED.
9. PROVIDE WALL CLEANOUTS AT SINKS AND URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE ADOPTED STANDARD PLUMBING CODE.
10. REFER TO MIXING VALVE DETAIL FOR LAVATORY/SINK TEMPERED WATER DETAIL. PROVIDE THERMOSTATIC TYPE MIXING VALVE AS INDICATED.
11. EQUIPMENT AND PIPING LOCATIONS SHOWN FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATIONS PRIOR TO START OF WORK. IF SYSTEMS ARE NOT AS SHOWN IN DRAWINGS, REPORT DEVIATIONS TO ARCHITECT/ENGINEER WITHIN 48 HOURS OF DISCOVERY.
12. WHERE PIPING IS TO BE REMOVED TO A POINT, IT SHALL BE CAPPED OFF AND PROTECTED (WHERE APPLICABLE) FOR CONNECTION TO NEW WORK. INSULATION ON EXISTING PIPING SHALL BE REPAIRED OR REPLACED EQUAL TO NEW CONDITION.
13. PIPING CONNECTING TO REMOVED EQUIPMENT SHALL BE REMOVED TO A POINT SO AS NOT TO INTERFERE WITH NEW CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF DESIGNATED SYSTEMS. COORDINATE REPAIR REQUIREMENTS WITH ARCHITECT.

NOTICE

1. FINAL COLOR, FIXTURE, TRIM AND ACCESSORIES SHALL BE APPROVED BY ARCHITECT AND INTERIORS PRIOR TO FIXTURE RELEASE. ALL PLUMBING FIXTURES LISTED HERE ON SHALL CORRESPOND WITH INTERIORS PF FIXTURE SPECIFICATION NUMBER.
2. PLUMBING FIXTURES SHALL COMPLY WITH STATE AND COUNTY WATER CONSERVATION REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	ROUGH-IN SIZE					NOTES
		TW/HW	CW	V	TRAP	S/W	
WC-1, WC-2	WATER CLOSET	–	1/2	2	–	3	WALL MOUNTED, FLUSH TANK (ADA COMPLIANT)
L-1, L-2	LAVATORY	1/2	1/2	1-1/4 1-1/2	1-1/4 1-1/2	1-1/2	WALL HUNG, MANUAL FAUCET (ADA COMPLIANT)
DF-1, DF-2	DRINKING FOUNTAIN	–	1/2	1-1/2	1-1/2	1-1/2	WALL MOUNTED

1. NOT USED

ELECTRONIC TRAP PRIMER SCHEDULE

ITEM	LOCATION	MANUFACTURER MODEL NUMBER	TYPE	MOUNTING	MINIMUM MOUNTING HEIGHT (IN)	NUMBER OF DRAINS	INLET SIZE (IN)	MINIMUM HEADER CONNECTIONS	ELECTRICAL		NOTES
									V	FUSE (A)	
ETP-1	–	PPP, INC MPB-500	MANIFOLD	RECESSED	48	3	3/4	4	115/1	2	1, 2, 3, 4, 5

1. PROVIDE WITH ANTI-SIPHON VACUUM BREAKER, 24 HOUR CLOCK, MANUAL OVER RIDE, SOLENOID VALVE, CALIBRATED MANIFOLD WITH 1/2" OUTLET COMPRESSION FITTINGS.
2. PROVIDE SHUT-OFF VALVE ON INLET.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. PAINT ACCESS PANEL TO MATCH WALL. COORDINATE WITH ARCHITECT.
5. VERIFY MOUNTING HEIGHT WITH FIELD CONDITIONS AND MANUFACTURER'S RECOMMENDATIONS.

PLUMBING FIXTURE SPECIFICATIONS

PLUMBING FIXTURES

WATER CLOSET (WC-1): ZURN MODEL Z5560, FLOOR MOUNTED PRESSURE ASSIST TWO PIECE, ELONGATED BOWL, 1.6 GPF, WHITE VITREOUS CHINA. MANUAL FLUSH HANDLE, POLISHED CHROME TRIP LEVER. ELONGATED, OPEN FRONT, WHITE SEAT WITH COVER, ANTI-MICROBIAL AGENT, ANGLE SUPPLY WITH STOP-3/8" NPT, (ADA COMPLIANT).

WATER CLOSET (WC-2): AMERICAN STANDARD BABY DEVORO FLOWISE, MODEL 2282.001 FLOOR MOUNTED TOILET WITH MANUAL FLUSHOMETER VALVE ZURN Z6000 AV, 1.6 GPF WITH ROUND FRONT SEAT NUMBER 5001G.055 WITH EVERCLEAN.

LAVATORY (L-1): ZURN MODEL Z5340, 20" X 18" WALL-HUNG, LAVATORY WHITE VITREOUS CHINA WITH OVERFLOW, ADJUSTABLE P-TRAP, SINGLE CONTROL FAUCET Z81000-XL, POLISHED CHROME, BRASS VALVE BODIES, 1.5 GPM (ADA COMPLIANT).

LAVATORY (L-2): ZURN MODEL Z5340, 20" X 18" WALL-HUNG, LAVATORY WHITE VITREOUS CHINA WITH OVERFLOW, ADJUSTABLE P-TRAP, SINGLE CONTROL FAUCET Z81000-XL, POLISHED CHROME, BRASS VALVE BODIES, 1.5 GPM (CHILDREN HEIGHT) (ADA COMPLIANT).

DRINKING FOUNTAIN (DF-1): HAWS MODEL 1119, DUAL HEIGHT, WALL MOUNTED, STAINLESS STEEL, SATIN FINISH, PUSH-BUTTON OPERATED, VANDAL-RESISTANT, BARRIER-FREE DRINKING FOUNTAIN WITH IN WALL MOUNTING FRAME. PROVIDE IN-LINE WATER FILTER BY FIXTURE UNIT MANUFACTURER (ADA COMPLIANT).

DRINKING FOUNTAIN (DF-2): HAWS MODEL 1109FR, FREEZE RESISTANT, WALL MOUNTED, CHILDREN HEIGHT, STAINLESS STEEL, SATIN FINISH, PUSH-BUTTON OPERATED, VANDAL-RESISTANT, BARRIER-FREE DRINKING FOUNTAIN WITH IN WALL MOUNTING FRAME. PROVIDE IN-LINE WATER FILTER BY FIXTURE UNIT MANUFACTURER (ADA COMPLIANT).

SUPPLIES, TRAPS AND MISCELLANEOUS

SUPPLIES: FOR CONCEALED APPLICATIONS, CONNECT WATER CLOSETS, LAVATORIES AND SINKS WITH McGUIRE BV 2165 CC BALL VALVE ANGLE STOP WITH SS-16 16" STAINLESS STEEL CONNECTOR FOR LAVATORIES, SINKS; McGUIRE BV 2165 CC BALL VALVE ANGLE STOP WITH SS-12 12" STAINLESS STEEL CONNECTOR FOR WATER CLOSET. WHERE EXPOSED, PROVIDE CHROME PLATED FLEXIBLE TUBE-RISERS (PROVIDE OFFSET TAILPIECE AND INSULATE WASTE AND SUPPLIES AT ALL HANDICAPPED LAVATORIES WITH McGUIRE PW 2150 PRE-WRAP INSULATION KIT). CONCINNITY MODEL NUMBER 19-L3 "IN WALL STOPS" SATIN CHROME WITH BRUSHED BRASS ACCENT AT WALL MOUNTED LAVATORY. WHERE EXPOSED, PIPING TRIM FINISH SHALL MATCH FIXTURE FINISH.

TRAPS: McGUIRE B8902, CHROME PLATED CAST BRASS WITH CLEANOUT PLUG AND TUBING OUTLET WITH TRAP ADAPTER AND ESCUTCHEON. (B-155WC FOR OFFSET TAILPIECE).

CLEANOUT (CO): ZURN MODEL ZS1468 (WALL), ZURN ZN1400-N (FLOOR INSIDE), ZURN Z1474-N (FLOOR EXTERIOR).

PLUMBING FIXTURE SPECIFICATIONS

FLOOR DRAIN (FD): ZURN MODEL ZN415-NHY (5B FOR 5" ROUND 5S FOR 5" SQUARE), DURA COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE HOLES. STRAINER FINISH SHALL BE NICKEL BRONZE UNLESS LOCATION REQUIRES ALTERNATE FINISH. ZURN MODEL Z541-NH 12" DIAMETER TOP DRAIN DURA COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR ANTI-TILT, HEAVY DUTY SLOTTED GRATE WITH SUSPENDED SEDIMENT BUCKET (MECHANICAL ROOM, TRASH DOCK AND HEAVY TRAFFIC AREAS). ZURN MODEL Z508-NH-AR (INSIDE, OUTSIDE) 9" DIAMETER TOP DRAIN, DURA COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN COMBINATION MEMBRANE FLASHING CLAMP AND FRAME, FOR EXTRA-HEAVY-DUTY CAST IRON DEEP FLANGE GRATE. PROVIDE ACID RESISTANT ENAMEL (ARE) COATING AND STAINLESS STEEL GRATE FOR ALL FLOOR DRAINS LOCATED IN KITCHENS AND BARS.

FLOOR SINK (FS): ZURN MODEL FD2377-NH-H 12"X12"X10" DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS, SEEPAGE FLANGE, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.

ANGLE STOP ARRESTOR (ASA): PPP MINI-MAX "AA" MINI-ANGLE STOP ARRESTOR MODEL MM-50ASCP, 3/8" COMPRESSION, CHROME PLATED.

MATERIALS SCHEDULE

SERVICE	MATERIALS
DOMESTIC WATER	TYPE L COPPER ABOVE GRADE, TYPE K COPPER BELOW GRADE.
SOIL, WASTE AND VENT	CAST IRON SOIL PIPE WITH NO-HUB FITTINGS ABOVE GRADE, SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS BELOW GRADE.

REVIEWED FOR CODE COMPLIANCE
APR 19 2016
BUREAU VERITAS NORTH AMERICA

AS BUILT

JBA Las Vegas
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jba consulting engineers

REVISIONS

CONSULTANT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

GENERAL NOTES AND SCHEDULES

STAMP
NEVADA STATE OF NEVADA ENGINEER ALEXANDER JANKOVIC EXP. 6-30-17 No. 13951 MECHANICAL PROFESSIONAL
FEB 05 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
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DRAWN	JU
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DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	P0.01

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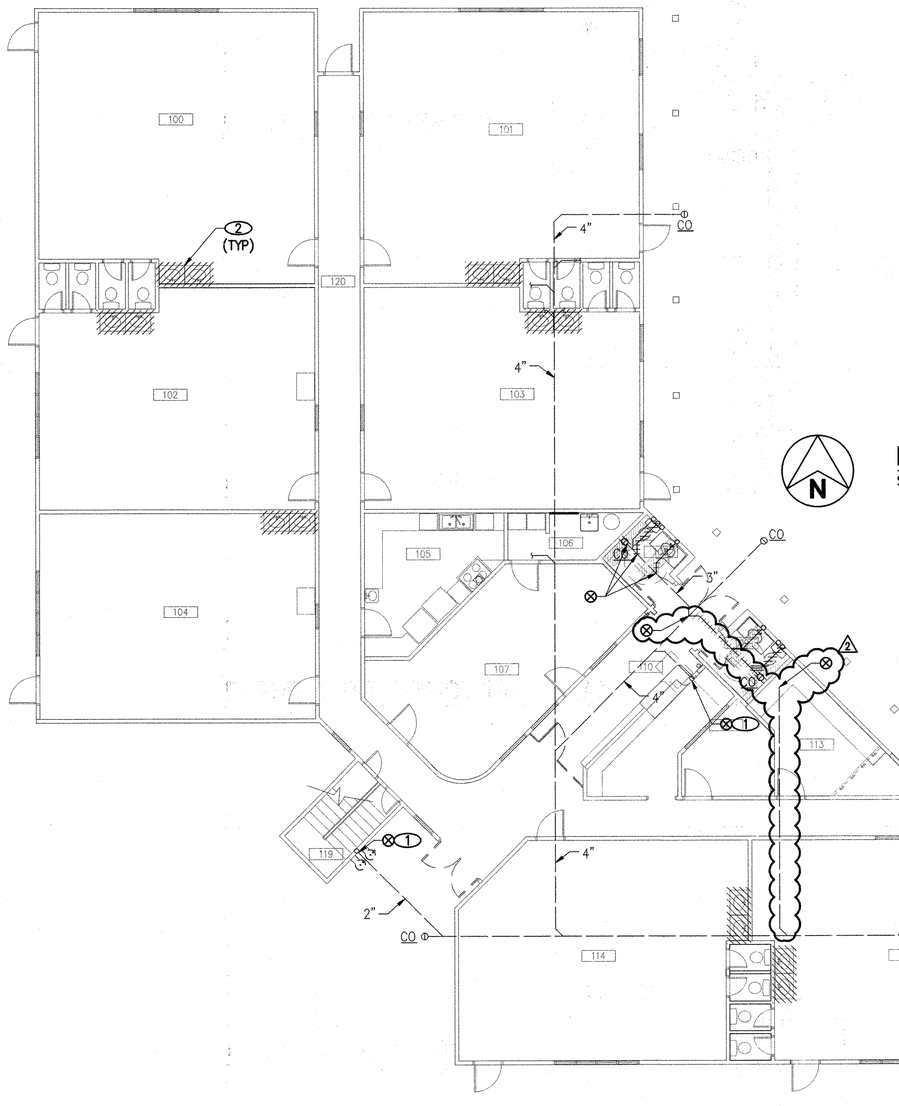

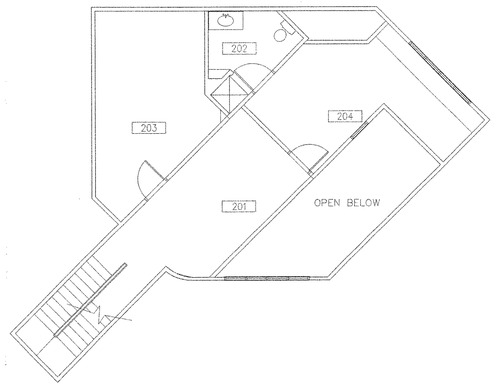

LEVEL 2 WASTE AND VENT DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

B / PD2.00

LEVEL 1 WASTE AND VENT DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

A / PD2.00

NOTICE

1. REMOVE EXISTING CLASSROOM SINKS AND ASSOCIATED CABINETS.

NOTES

1. REMOVE EXISTING PLUMBING FIXTURE. CAP WASTE AND VENT AND PREPARE TO RECONNECT NEW WC, L, DF.
2. REMOVE SINK AND ASSOCIATED CABINET. CAP WASTE AND VENT, AND PREPARE TO RECONNECT NEW SINK.

PLANS APPROVED
PLUMBING/MECHANICAL
Building & Safety Dept.
City of Las Vegas, Nevada
NOV 21 2016
Does Not Include Architectural, Electrical, Structural or Off-Site Improvements Make No Changes Without Approval. Plan is Not a Permit to Violate Any Ordinance

CITY OF LAS VEGAS NEVADA

REVISIONS
1 07/08/2016 ADDENDUM
2 11/11/2016 GEN. REVISION

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

WASTE AND VENT DEMO PLANS

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EXP. 6-30-17
MECHANICAL
No. 13957
NOV 15 2016

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DATE	02/08/2016
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CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	PD2.00

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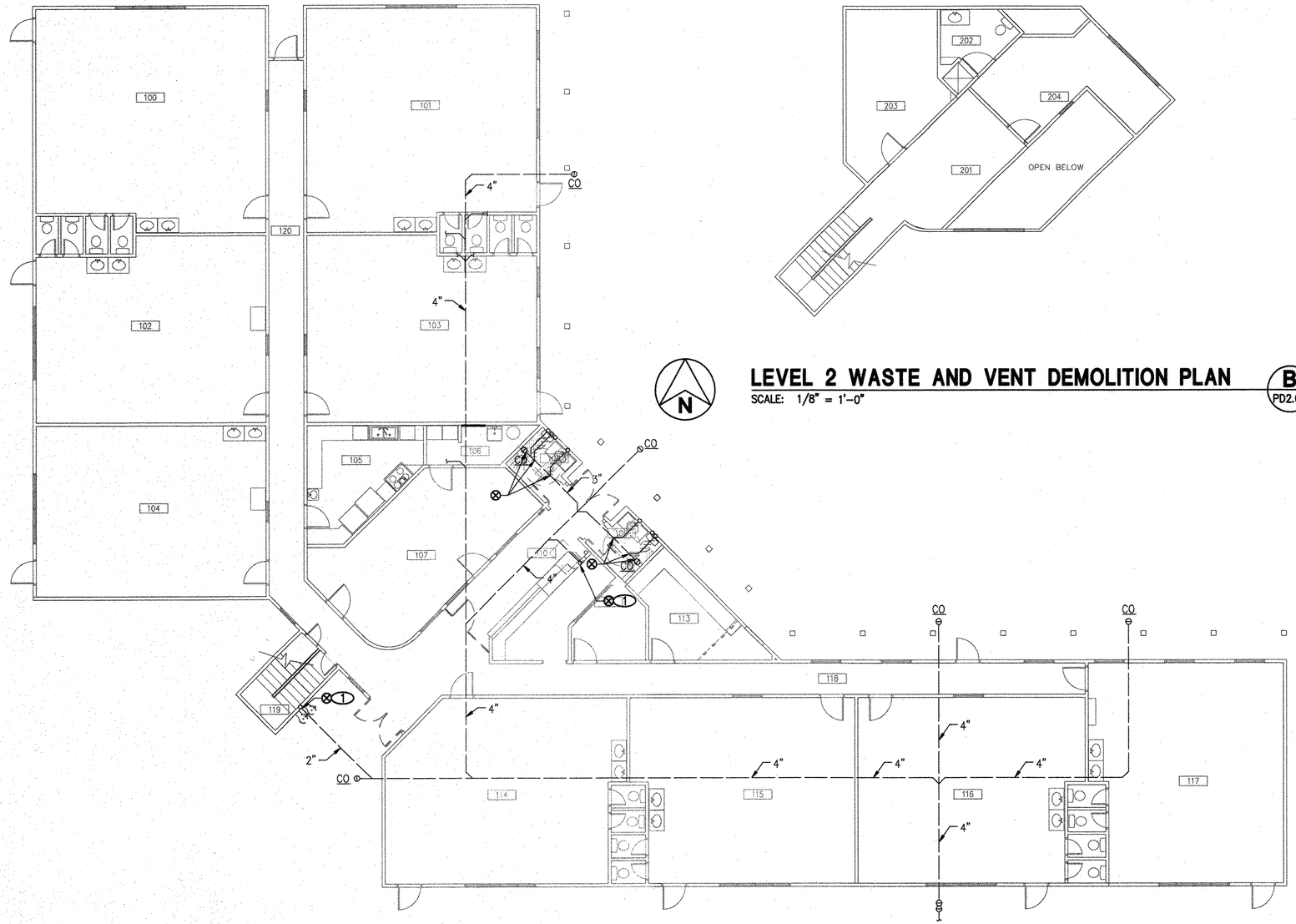

LEVEL 2 WASTE AND VENT DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

B PD2.00

LEVEL 1 WASTE AND VENT DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

A PD2.00

NOTICE

1. NOT USED.

NOTES

1. REMOVE EXISTING PLUMBING FIXTURE. CAP WASTE AND VENT AND PREPARE TO RECONNECT NEW WC, L, DF.

REVIEWED FOR CODE COMPLIANCE

APR 19 2016 DK

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

WASTE AND VENT DEMO PLANS

STAMP

PROFESSIONAL ENGINEER STATE OF NEVADA ALEXANDER JANKOVIC EXP. 6-30-17 MECHANICAL No. 13951

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DATE	02/08/2016
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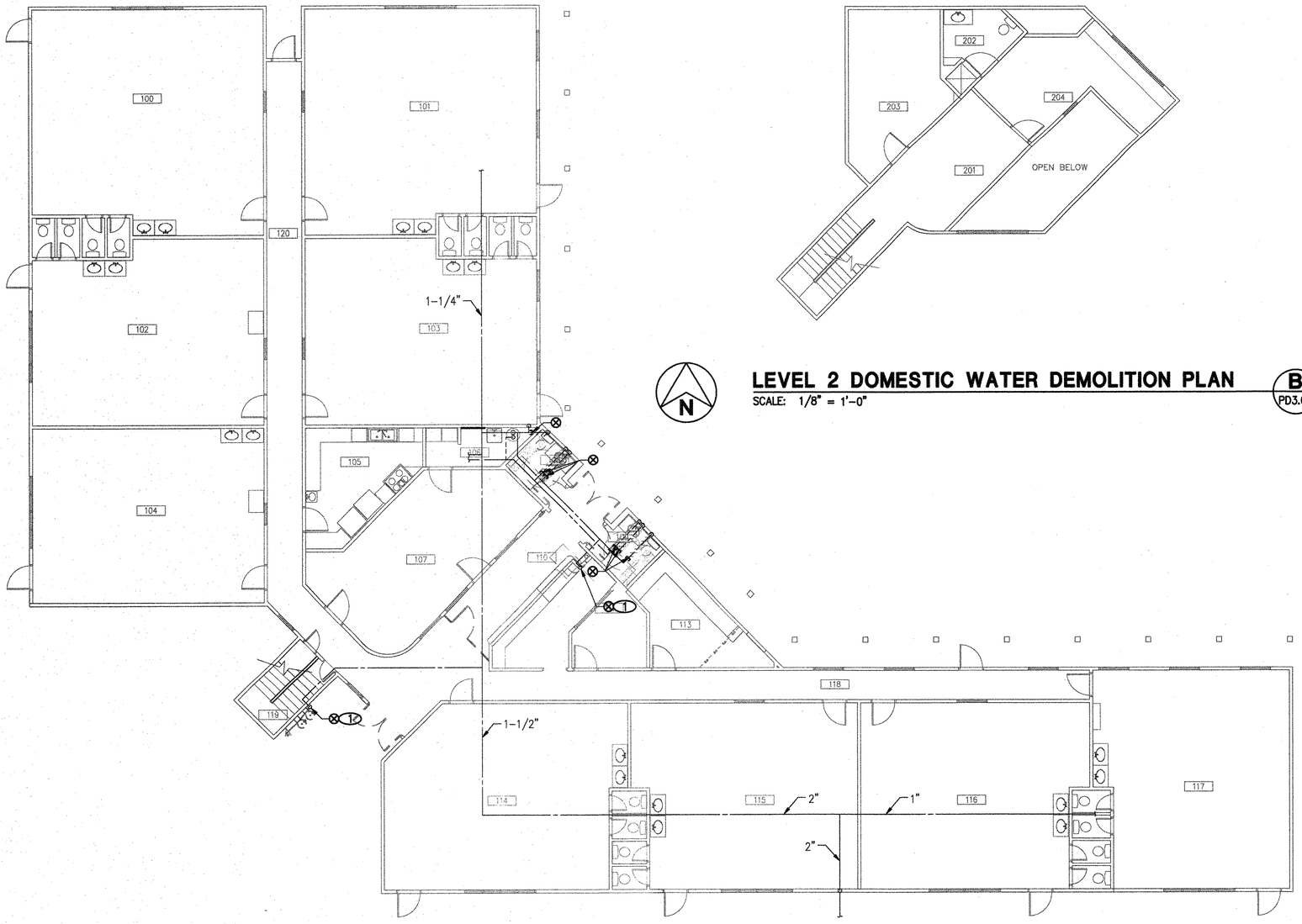

N

LEVEL 2 DOMESTIC WATER DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

B PD3.00

N

LEVEL 1 DOMESTIC WATER DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

A PD3.00

NOTICE

1. NOT USED.

NOTES

1. REMOVE EXISTING PLUMBING FIXTURE. CAP EXISTING CW, AND PREPARE TO RECONNECT NEW DF.

REVIEWED FOR CODE COMPLIANCE
APR 19 2016 DK
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ALTA DAYCARE UPGRADES
DOMESTIC WATER DEMO PLANS

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ALEXANDER JANKOVICH
EXP. 6-30-17
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DATE	02/08/2016
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CHANGE NO	521-30
HANSEN NO	60316
SHT NO	PD3.00

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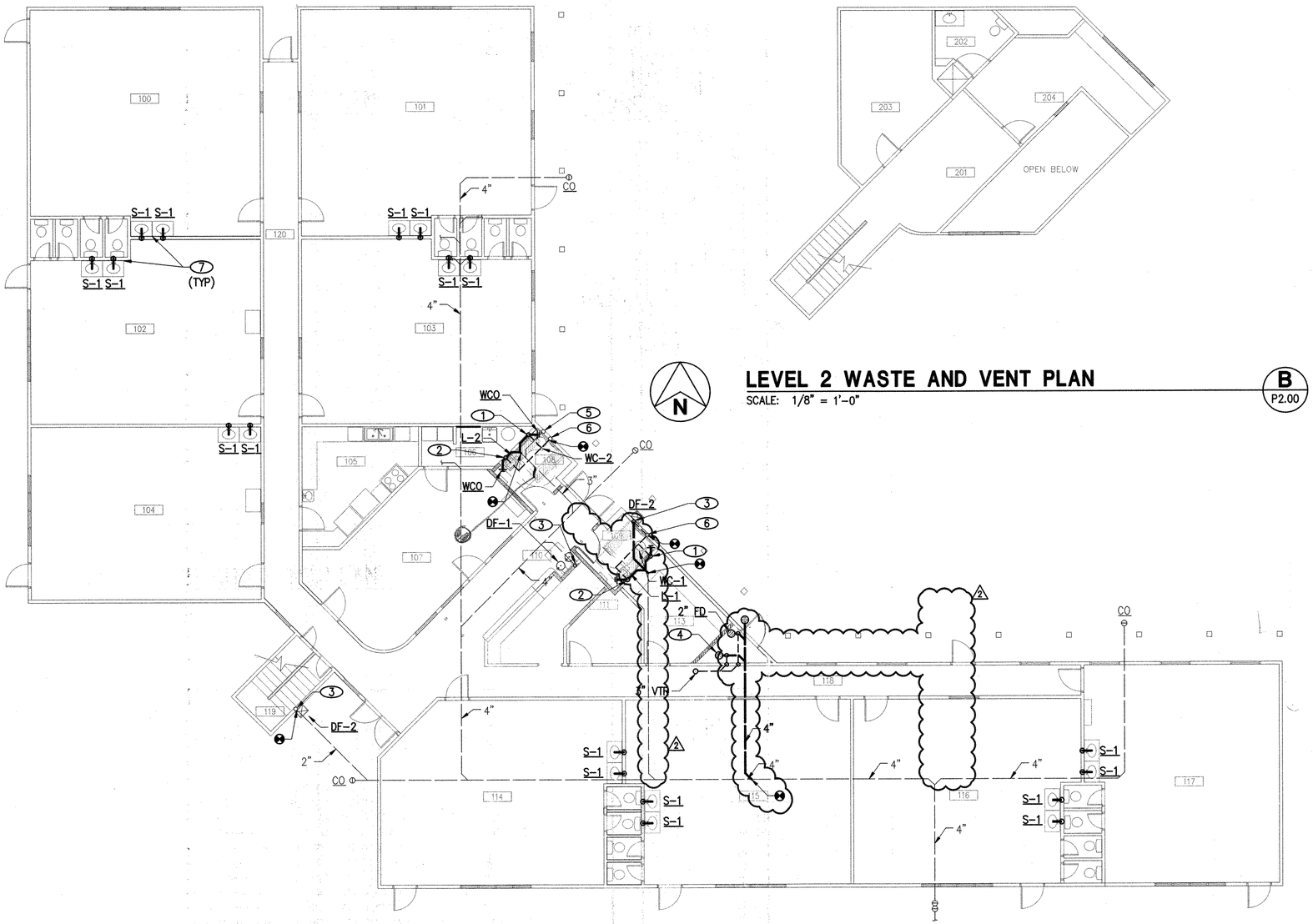

LEVEL 2 WASTE AND VENT PLAN

SCALE: 1/8" = 1'-0"

B / P2.00

LEVEL 1 WASTE AND VENT PLAN

SCALE: 1/8" = 1'-0"

A / P2.00

NOTICE

1. INSTALL NEW CLASSROOM SINK CABINETS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

NOTES

1. 3" W DOWN, 2" V UP AND CONNECT TO WC-1.
2. 2" W DOWN, 2" V UP AND CONNECT TO L-1.
3. 2" W DOWN, 2" V UP AND CONNECT TO DF-1.
4. 4" W DOWN, 2" V UP AND CONNECT TO STANDPIPE. REFER TO 4/P6.00 FOR DETAIL.
5. EXISTING 3" WASTE FROM LEVEL 2 TO REMAIN.
6. 2" V UP IN WALL AND CONNECT TO EXISTING VENT LINE ABOVE.
7. 2" W DOWN, 2" V UP AND CONNECT NEW SINK TO EXISTING WASTE AND VENT LINES.

PLANS APPROVED
PLUMBING/MECHANICAL
Building & Safety Dept.
City of Las Vegas, Nevada
NOV 21 2016
Does Not Include Architectural, Electrical, Structural or Off-Site Improvements Make No Change Without Approval Plan Is Not a Permit to Violate Any Ordinance

CITY OF LAS VEGAS
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REVISIONS
1 07/08/2016 ADDENDUM
2 11/11/2016 GEN. REVISION

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CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES
WASTE AND VENT PLANS

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA
ALEXANDER JANKOVIC
EXP. 6-30-17
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No. 13957
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DATE	02/08/2016
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HANSEN NO	60316
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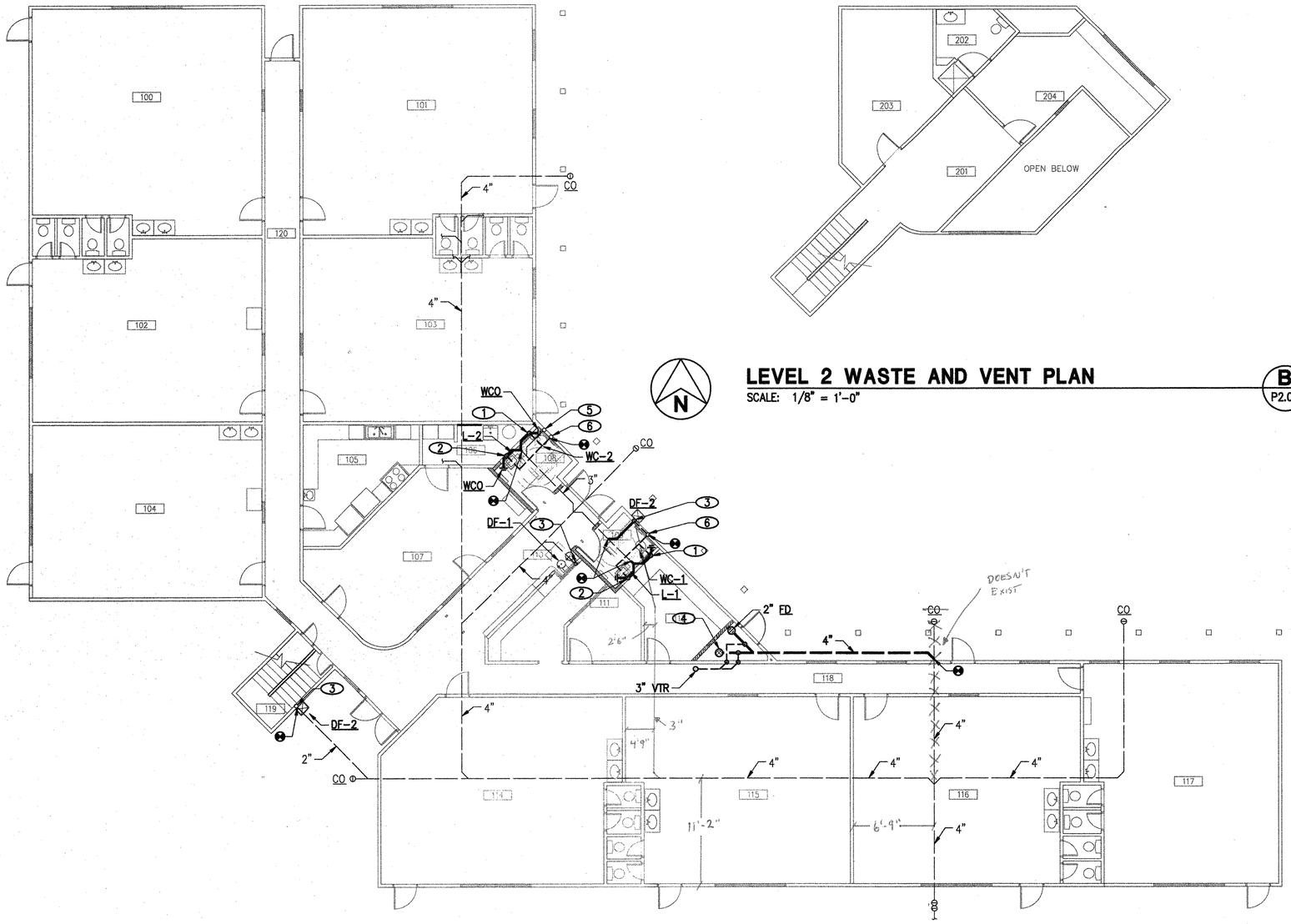

LEVEL 2 WASTE AND VENT PLAN

SCALE: 1/8" = 1'-0"

B
P2.00

LEVEL 1 WASTE AND VENT PLAN

SCALE: 1/8" = 1'-0"

A
P2.00

NOTICE

1. NOT USED.

NOTES

1. 3" W DOWN, 2" V UP AND CONNECT TO WC-1.
2. 2" W DOWN, 2" V UP AND CONNECT TO L-1.
3. 2" W DOWN, 2" V UP AND CONNECT TO DF-1.
4. 4" W DOWN, 2" V UP AND CONNECT TO STANDPIPE. REFER TO 4/P6.00 FOR DETAIL.
5. EXISTING 3" WASTE FROM LEVEL 2 TO REMAIN.
6. 2" V UP IN WALL AND CONNECT TO EXISTING VENT LINE ABOVE.

REVIEWED FOR CODE COMPLIANCE

APR 19 2016 DK

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Donahue

CITY OF LAS VEGAS
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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

WASTE AND VENT PLANS

STAMP

ALEXANDER JANKOVICH — PROFESSIONAL ENGINEER — STATE OF NEVADA — MECHANICAL — No. 13951 — EXP. 6-30-17

FEB 05 2016

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SHT NO	P2.00

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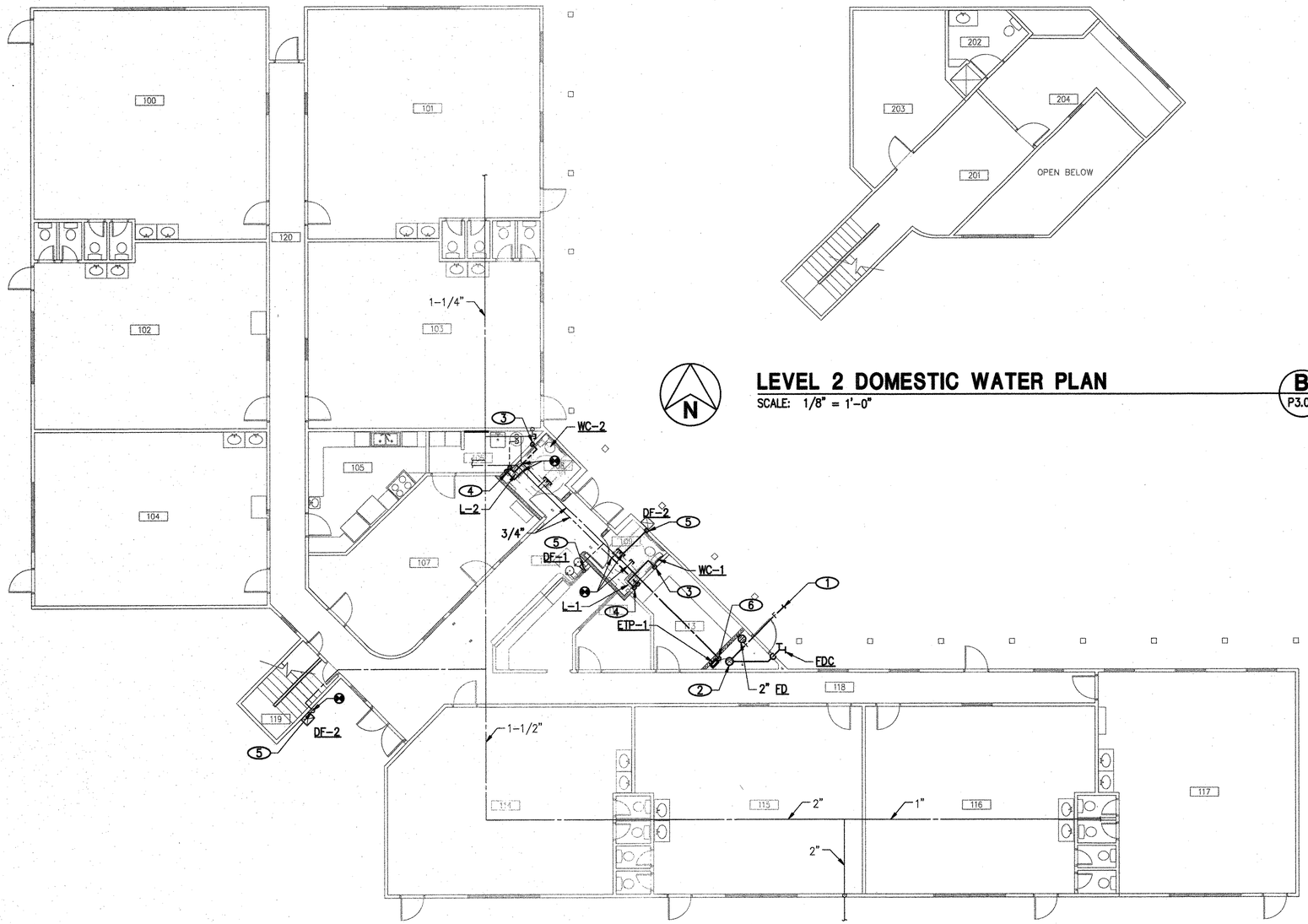

LEVEL 1 DOMESTIC WATER PLAN

SCALE: 1/8" = 1'-0"

A / P3.00

LEVEL 2 DOMESTIC WATER PLAN

SCALE: 1/8" = 1'-0"

B / P3.00

NOTICE

1. NOT USED.

NOTES

1. SEE CIVIL PLANS FOR CONTINUATION.
2. FIRE SPRINKLER RISER. REFER TO 1/P6.01 FOR DETAIL.
3. 1/2" CW DOWN IN WALL AND CONNECT TO WC-1.
4. 1/2" CW, 1/2" HW DOWN IN WALL AND CONNECT TO L-1, PROVIDE MIXING VALVE SYMMONS, 5-210-CK.
5. 1/2" CW DOWN IN WALL AND CONNECT TO DF-1.
6. 1/2" CW DOWN IN WALL AND CONNECT TO ETP-1, ROUTE 1/2" CW TO FLOOR DRAIN.

REVIEWED FOR CODE COMPLIANCE

APR 19 2016 DK

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CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES
DOMESTIC WATER PLANS

STAMP

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ALEXANDER JANNOTTI
EXP. 6-30-17
MECHANICAL
No. 13951

FEB 05 2016

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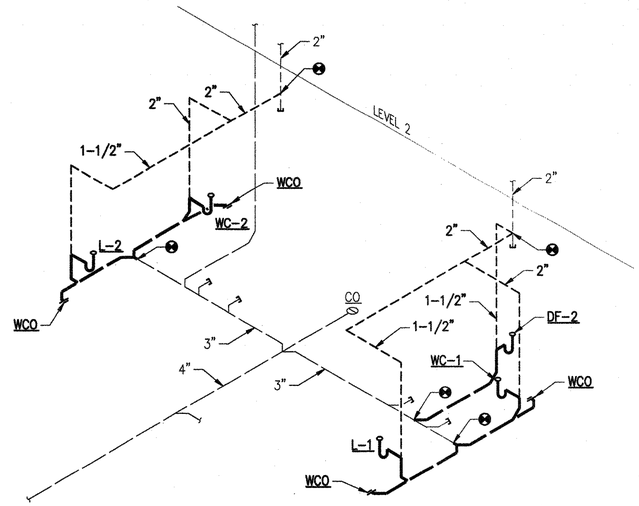

WASTE AND VENT ISOMETRIC DIAGRAM

NO SCALE

1 P5.00

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ALTA DAYCARE UPGRADES

PLUMBING ISOMETRIC DIAGRAM

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SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	P5.00

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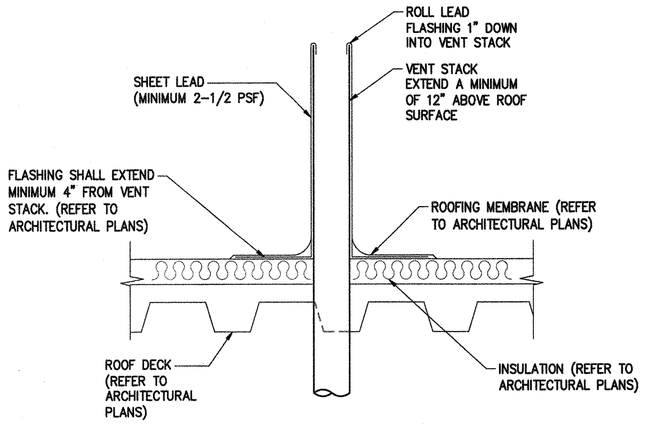

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NO SCALE

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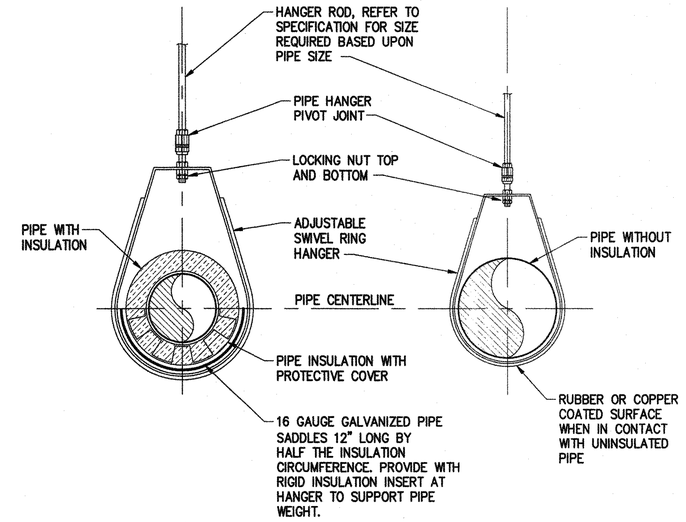

PIPE HANGER (4" AND BELOW)

NO SCALE

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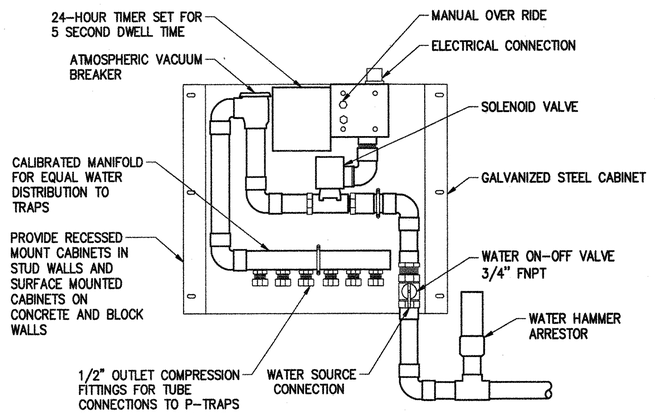

ELECTRIC TRAP PRIMER

NO SCALE

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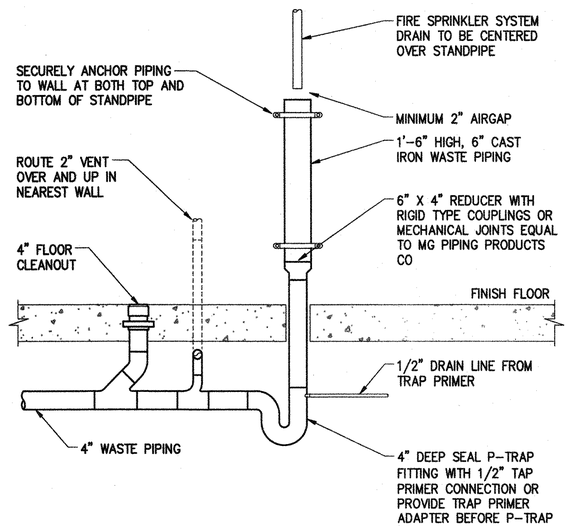

FIRE SPRINKLER STANDPIPE

NO SCALE

4 P6.00

REVIEWED FOR CODE COMPLIANCE

APR 19 2016 DK

BUREAU VERITAS NORTH AMERICA, INC.

AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
DESIGN DETAILS

REVISIONS

CONSULTANT

JBA Las Vegas
5155 W Patrick Ln
Las Vegas, NV 89118
p 702.362.9200

jba consulting engineers

STAMP

PROFESSIONAL ENGINEER STATE OF NEVADA ALEXANDER JANKOVICH EXP. 6-30-17 MECHANICAL No. 13951

FEB 05 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6539
FAX: (702) 384-4848
TDD: (702) 386-9108

DRAWN	JU
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
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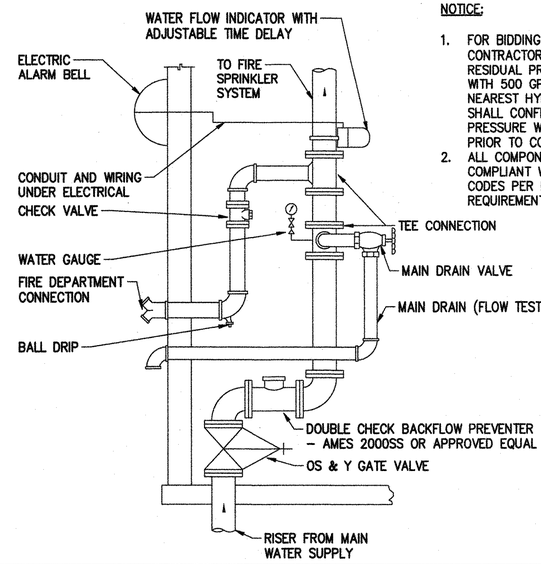
FIRE SPRINKLER NOTES

1. SPRINKLER CONTRACTOR SHALL PROVIDE SYSTEM DESIGN, LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE COMPLETE DESIGN AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM SERVING THE SPACE.
2. THE DESIGN AND INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION NFPA 13, CLARK COUNTY FIRE CODE FIRE CODE AND THE GENERAL REQUIREMENTS OF APPLICABLE SECTIONS OF THE 2012 IBC, THE SPECIFIC REQUIREMENTS OF THE LOCAL FIRE PREVENTION BUREAU AND THE OWNER'S INSURANCE UNDERWRITER.
3. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, SPRINKLERS, ESCUTCHEONS, PIPING, VALVES, FITTINGS, DRAINS, HANGERS, BRACING, SIGNS, TEST CONNECTIONS AND OTHER IDENTIFICATION MARKINGS AS REQUIRED.
4. ALL PIPING, EQUIPMENT AND MATERIALS USED IN THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE LISTED AS APPROVED BY UNDERWRITERS, LABORATORIES INC., "LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS", OR APPROVED BY OTHER APPROPRIATE, NATIONALLY RECOGNIZED TESTING LABORATORIES FOR USE IN SPRINKLER SYSTEMS, AND SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.
5. ALL EQUIPMENT OF THE SAME TYPE SHALL BE PROVIDED BY THE SAME MANUFACTURER. PRODUCTS FROM MULTIPLE MANUFACTURERS FOR THE SAME TYPE SHALL NOT BE ALLOWED.
6. PROVIDE SEISMIC BRACING AS REQUIRED BY 2012 INTERNATIONAL BUILDING AND FIRE CODES AND NFPA 13.
7. PIPING, PIPE HANGERS, SWAY BRACING AND SUPPORTS SHALL CONFORM TO THE LATEST EDITION OF NFPA 13.
8. ALL SPRINKLERS WITHIN THE SPACE SHALL BE PROVIDED WITH EQUIVALENT CHARACTERISTICS, INCLUDING TEMPERATURE RATING, RESPONSE TIME INDEX AND RESPONSE TYPE.
9. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK, DIFFUSERS, GRILLES, ELECTRICAL AND PLUMBING PIPING AS NECESSARY TO INTERFACE COMPONENTS OF FIRE SPRINKLER PIPING PROPERLY WITH OTHER WORK.
10. AFTER SYSTEM IS INSTALLED IT SHALL BE FILLED AND TESTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE REQUIREMENTS OF THE APPLICABLE NFPA STANDARDS.
11. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE PROVIDED TO THE ARCHITECT PRIOR TO SUBMISSION TO THE LOCAL AUTHORITIES. ONCE APPROVED BY THE ARCHITECT OR THEIR ENGINEER, SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13.
12. THE CONTRACTOR GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATION OF COMPLETION AND ACCEPTANCE OF THE WORK.
13. THE CONTRACTOR SHALL PROVIDE A STOCK OF SPARE SPRINKLERS, INCLUDING CABINET, AS REQUIRED BY NFPA 13.
14. ALL SPRINKLERS SHALL BE CONCEALED. FINISH AND COLOR SHALL BE SELECTED BY THE ARCHITECT.
15. ALL SPRINKLERS SHALL BE CENTERED WITHIN THE CEILING TILE, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
16. ALL PIPING IN FINISHED OR PUBLIC SPACES SHALL BE CONCEALED ABOVE FINISHED CEILINGS. PIPING IN UNFINISHED SPACES MAY BE EXPOSED.
17. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING AND PAINTING AS REQUIRED FOR INSTALLATION OF SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED BY THE BUILDING CODE. ALL FIRESTOPPING SHALL USE LISTED ASSEMBLIES BASED ON THE RATED PENETRATION.
18. CONTRACTOR SHALL TEST ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13. PROVIDE ARCHITECT WITH COPIES OF ALL TEST CERTIFICATES, OPERATION AND MAINTENANCE MANUALS, RECORD DRAWINGS AND OTHER REQUIRED CERTIFICATES AS REQUIRED BY NFPA 13.
19. CONTRACTOR SHALL BE LICENSED AND FULLY QUALIFIED TO PERFORM THE WORK AS REQUIRED BY THE LOCAL JURISDICTION.



NOTICE:

1. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL ASSUME 50 PSI RESIDUAL PRESSURE IS AVAILABLE WITH 500 GPM FLOWING AT THE NEAREST HYDRANT. CONTRACTOR SHALL CONFIRM AVAILABLE FLOW AND PRESSURE WITH ON-SITE FLOW TEST PRIOR TO COMMENCING WORK.
2. ALL COMPONENTS SHALL BE COMPLIANT WITH NPFA AND LOCAL CODES PER DESIGN BUILD SYSTEM REQUIREMENTS.

FIRE SPRINKLER RISER PIPING — 1 / P6.01

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ALTA DAYCARE UPGRADES
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PROFESSIONAL ENGINEER-STATE OF NEVADA
ALEXANDER JANSSEN
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MECHANICAL
No. 13951
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OWNER: CITY OF LAS VEGAS
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MECHANICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
		SHEET NOTE
		REVISION NUMBER
		ROUND DUCTWORK (INCHES)
		RECTANGULAR DUCTWORK (INCHES)
SA		SUPPLY AIR DUCT UP/DOWN
RA		RETURN AIR DUCT UP/DOWN
EA		EXHAUST AIR DUCT UP/DOWN
OA		OUTSIDE AIR DUCT UP/DOWN
		SUPPLY DIFFUSER, GRILLE OR REGISTER
		RETURN GRILLE
		EXHAUST GRILLE
		LINEAR SLOT DIFFUSER, GRILLE OR REGISTER
		SIDEWALL SLOT DIFFUSER, GRILLE OR REGISTER
		AIR FLOW DIRECTION ARROW
AD		ACCESS DOOR
		SINGLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		DOUBLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		SINGLE/DOUBLE LINE RADIUS DUCT ELBOW
		SINGLE/DOUBLE LINE MITERED DUCT ELBOW
		DOUBLE LINE DUCT TRANSITION

MECHANICAL SYMBOL LEGEND (CONTINUED)

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
FD		FUSIBLE LINK FIRE DAMPER
SD		SMOKE DAMPER
DD		DUCT MOUNTED SMOKE DETECTOR
FSD		COMBINATION FIRE AND SMOKE DAMPER
MD		MOTORIZED DAMPER
MVD		MANUAL VOLUME DAMPER
		MVD WITH REMOTE CEILING OPERATOR
BDD		BACKDRAFT DAMPER
	T	THERMOSTAT
	H	HUMIDISTAT
	S	SPACE TEMPERATURE SENSOR WITH PLUG-IN PORT
POC		POINT OF CONNECTION TO EXISTING
POD		POINT OF DISCONNECTION FROM EXISTING
		ITEM TO BE REMOVED

- EQUIPMENT TYPE
- EQUIPMENT NUMBER
- (-) CFM/GPM, E = EXISTING

- SUPPLY DIFFUSER TAG, E = EXISTING
- (-) CFM/DIRECTION

- RETURN/EXHAUST GRILLE TAG, E = EXISTING
- (-) CFM/DIRECTION

- PLAN/RISER TYPE
- SHEET/RISER NUMBER

- AHU EQUIPMENT NUMBER
- X-A TERMINAL BOX TAG
- (-) CFM/GPM

SHEET INDEX

ISSUE: 2016-03-11 CITY COMMENTS	ISSUE: 2016-02-08 PERMIT ISSUE	SHEET NUMBER	SHEET DESCRIPTION
•	•	M0.00	COVER SHEET
•	•	M0.01	GENERAL NOTES AND SCHEDULES
•	•	M2.00	MECHANICAL PLANS
•	•	M6.00	DESIGN DETAILS

COMcheck Software Version 4.0.2.5

Mechanical Compliance Certificate

Project Information

Energy Code:	2012 IECC
Project Title:	Alta Daycare Upgrades
Location:	Las Vegas, Nevada
Climate Zone:	3b
Project Type:	Alteration

Construction Site:
Alta Drive
Las Vegas, NV 89106

Owner/Agent:
City of Las Vegas

Designer/Contractor:
JBA Consulting Engineers
5155 W. Patrick Ln
Las Vegas, NV 89118

Mechanical Systems List

Quantity	System Type & Description
1	CU-1/ RU-1 Fire riser room (Single Zone): Packaged Terminal Heat Pump Heating Mode: Capacity = 11 kBtu/h, Proposed Efficiency = 4.44 COP, Required Efficiency = 2.97 COP Cooling Mode: Capacity = 9 kBtu/h, Proposed Efficiency = 20.00 EER, Required Efficiency = 11.30 EER Fan System: None

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.2.5 and to comply with the mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: AltaDaycare Upgrades
Data filename: J:\15\0881\Docs\Design\M\2012 IECC\Alta Daycare Energy Comliance.cck

Report date: 03/10/16
Page 1 of 8

MECHANICAL ABBREVIATION LIST

(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

AABC	AMERICAN AIR BALANCE COUNCIL	FLA	FULL LOAD AMPS	P	PUMP
ACD	AUTOMATIC CONTROL DAMPER	FPM	FEET PER MINUTE	PCF	POUND PER CUBIC FOOT
ACU (AC)	AIR CONDITIONING UNIT	FPS	FEET PER SECOND	PD	PRESSURE DROP
AD	ACCESS DOOR	FT	FEET	PH	PHASE
ADA	AMERICANS WITH DISABILITIES ACT			POS	PROVIDED BY OTHER SECTION
AF	AIR FOIL	GA	GAUGE	PPM	PARTS PER MILLION
AFF	ABOVE FINISH FLOOR	GAL	GALLONS	PRV	PRESSURE REDUCING VALVE
AFMS	AIR FLOW MEASURING STATION	GBS	GALVANIZED BIRD SCREEN	PSI	POUND PER SQUARE INCH
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	GEF	GENERAL EXHAUST FAN	PSIA	POUND PER SQUARE INCH ABSOLUTE
AHU (AH)	AIR HANDLING UNIT	GPH	GALLONS PER HOUR	PSIG	POUND PER SQUARE INCH GAUGE
AP	ACCESS PANEL	GPM	GALLONS PER MINUTE		
APD	AIR PRESSURE DROP	GR	GRILLE	REFR	REFRIGERANT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS			RH	RELATIVE HUMIDITY
AUTO	AUTOMATIC	H	HEIGHT	RPM	REVOLUTIONS PER MINUTE
		HC	HEATING COIL	RTU	ROOFTOP UNIT
BAS	BUILDING AUTOMATION SYSTEM	HD	HEAD		
BHP	BRAKE HORSE POWER	HOA	HAND OFF AUTO	SD	SMOKE DAMPER
BI	BACKWARD INCLINED	HP	HORSE POWER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
BMS	BUILDING MANAGEMENT SYSTEM	HR	HOUR	SEF	SMOKE EXHAUST FAN
BOD	BOTTOM OF DUCT	HZ	HERTZ	SF	SUPPLY FAN
BOS	BOTTOM OF STEEL			SH	STATIC HEAD
BTU	BRITISH THERMAL UNIT	IBC	INTERNATIONAL BUILDING CODE	SP	STATIC PRESSURE
		IFC	INTERNATIONAL FIRE CODE	SQ FT (⌀)	SQUARE FEET
°C	DEGREES CELSIUS	IH	INTAKE HOOD	SS	STAINLESS STEEL
CC	COOLING COIL	IN	INCH		
CD	CEILING DIFFUSER			TAB	TESTING AND BALANCING
CFH	CUBIC FEET PER HOUR	KW	KILOWATT	TCP	TEMPERATURE CONTROL PANEL
CFM	CUBIC FEET PER MINUTE			TD	TEMPERATURE DIFFERENCE
CO	CARBON MONOXIDE	L	LENGTH	TDH	TOTAL DEVELOPED HEAD
CO2	CARBON DIOXIDE	LAT	LEAVING AIR TEMPERATURE	TEL	TOTAL EQUIVALENT LENGTH
COP	COEFFICIENT OF PERFORMANCE	LBS	POUNDS	TEMP (T)	TEMPERATURE
CV	CONSTANT VOLUME	LWT	LEAVING WATER TEMPERATURE	TF	TRANSFER FAN
				TSP	TOTAL STATIC PRESSURE
DB	DRY BULB TEMPERATURE	MA	MIXED AIR TEMPERATURE	TU	TERMINAL UNIT
dB	DECIBEL	MAX	MAXIMUM	TYP	TYPICAL
DC	DIRECT CURRENT	MBH	1000 BRITISH THERMAL UNITS PER HOUR		
DDC	DIRECT DIGITAL CONTROL	MCA	MINIMUM CIRCUIT AMPS	UH	UNIT HEATER
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	MCC	MOTOR CONTROL CENTER	UMC	UNIFORM MECHANICAL CODE
DIA (⌀)	DIAMETER	MERV	MINIMUM EFFICIENCY REPORTING VALUE	UNO	UNLESS NOTED OTHERWISE
DIFF	DIFFUSER	MIN	MINIMUM	UPC	UNIFORM PLUMBING CODE
DN	DOWN	MOCP	MAXIMUM OVER CURRENT PROTECTION		
DP	DIFFERENTIAL PRESSURE			V	VOLT
DX	DIRECT EXPANSION	NEC	NATIONAL ELECTRICAL CODE	VD	VOLUME DAMPER (MANUAL)
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	VEL	VELOCITY
E	EXISTING	NIC	NOT IN CONTRACT	VFD	VARIABLE FREQUENCY DRIVE
EAT	ENTERING AIR TEMPERATURE	NO	NORMALLY OPEN (SPRING RETURN)		
EC	EVAPORATIVE COOLER	NPS	NOMINAL PIPE SIZE	W	WATT, WIDTH
EER	ENERGY EFFICIENCY RATIO			WB	WET BULB TEMPERATURE
EF	EXHAUST FAN	OED	OPEN END DUCT	WC	WATER COLUMN
EFF	EFFICIENCY	OPA	OSHPD PRE-APPROVAL OF ANCHORAGE	WG	WATER GAUGE
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT	WMS	WIRE MESH SCREEN
ESP	EXTERNAL STATIC PRESSURE			WT	WEIGHT
EXH	EXHAUST	OSP	OSHPD SPECIAL SEISMIC CERTIFICATION PRE-APPROVAL		
°F	DEGREES FAHRENHEIT				

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ALTA DAYCARE UPGRADES
COVER SHEET

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PROFESSIONAL ENGINEER STATE OF NEVADA ALEXANDER JAMES HOLT EXP. 6-30-17 No. 13951 MECHANICAL
MAR 10 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
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MECHANICAL GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING DUCTWORK, PIPING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW DUCTWORK, PIPING AND EQUIPMENT IS SHOWN HEAVY. EXISTING DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.
3. ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING MECHANICAL SYSTEMS AS REQUIRED. MECHANICAL SYSTEMS IN EXISTING WALLS AND UNDER GROUND SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING PIPING AND DUCTWORK NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
4. THE OWNER RESERVES FIRST CHOICE TO KEEP EXISTING EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER AND DELIVER DESIGNATED EQUIPMENT AND MATERIALS REMOVED UNDER THIS CONTRACT TO OWNERS DESIGNATED STORAGE AREA. REMAINING EQUIPMENT AND MATERIAL REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR.
5. UNLESS NOTED OTHERWISE, FLEXIBLE DUCTS TO TERMINAL UNITS, DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME SIZE AS NECK.
6. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAXIMUM HORIZONTAL RUN WITH ONLY ONE 90° BEND. SECURE FLEXIBLE DUCTWORK WITH SCREWS AND DRAWBANDS.
7. DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS.
8. PROVIDE GEAR OPERATED CEILING OPERATORS FOR INACCESSIBLE MANUAL VOLUME DAMPERS. OPERATOR SHALL BE EQUAL TO YOUNG REGULATOR WITH CEILING ESCUTCHEON AND COVER PLATE. COORDINATE EXACT LOCATION OF COVER PLATE WITH ARCHITECT.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, REGISTERS, DIFFUSERS AND ACCESS PANELS IN CEILING AND FOR DIMENSIONED LENGTHS OF LINEAR DIFFUSERS. COORDINATE DIFFUSER BORDER TYPES WITH CEILING TYPE SCHEDULED IN ARCHITECTURAL REFLECTED CEILING PLANS.
10. FIELD VERIFY FIT OF DUCTWORK AND PIPING PRIOR TO FABRICATION.
11. MANUAL VOLUME DAMPERS AND VALVES ON INSULATED DUCTWORK AND PIPING SHALL HAVE EXTENDED STEMS TO ALLOW FOR THE INSULATION THICKNESS. PROVIDE MINIMUM 12" LONG RED RIBBON LOCATOR ON VOLUME DAMPER AND VALVE HANDLES.
12. EQUIPMENT START-UP SHALL BE BY MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
13. INSTALL THERMOSTATS AT MOUNTING HEIGHT 4'-0" AFF IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE EXACT LOCATION IN FIELD WITH CONTRACTOR AND ARCHITECT.
14. WHERE PIPING AND/OR DUCTWORK IS TO BE REMOVED TO A POINT, IT SHALL BE CAPPED OFF AND PROTECTED (WHERE APPLICABLE) FOR CONNECTION TO NEW WORK. INSULATION ON EXISTING PIPING AND DUCTWORK SHALL BE REPAIRED OR REPLACED EQUAL TO NEW CONDITION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF DESIGNATED SYSTEMS. COORDINATE REPAIR REQUIREMENTS WITH ARCHITECT.
16. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL SA, RA, EA DIFFUSERS AND REGISTERS THROUGHOUT THE FACILITY.
17. PROVIDE TESTING AND BALANCING FOR THE EXHAUST HOOD.

EXHAUST FAN SCHEDULE

ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	TYPE	AIRFLOW (CFM)	SP (IN WG)	FAN RPM	ELECTRICAL					MAX OPERATING WEIGHT (LBS)	NOTES
								BHP	WATTS	RPM	FLA (A)	V/PH		
CEF-1	CEILING	RESTROOM	GREENHECK SPA-110-VG	CEILING	100	0.125	–	–	49	950	0.58	115/1	17	1, 2
CEF-2	CEILING	RESTROOM	GREENHECK SPA-110-VG	CEILING	100	0.125	–	–	49	950	0.58	115/1	17	1, 2

1. ACTUAL OPERATION AT 2200 FEET ABOVE SEA LEVEL.
2. PROVIDE WITH WALL CAP, WC-6.

KITCHEN EXHAUST FAN SCHEDULE

ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	TYPE	AIRFLOW (CFM)	SP (IN WG)	FAN RPM	ELECTRICAL					MAX OPERATING WEIGHT (LBS)	NOTES
								BHP	HP	RPM	FLA (A)	V/PH		
KEF-1	ROOF	KITCHEN HOODS	GREENHECK QEI-9-II-3	MIXED FLOW	525	0.5	–	–	1/3	1,725		115/1	70	1, 2, 3, 4

1. ACTUAL OPERATION AT 2200 ABOVE SEA LEVEL.
3. PROVIDE WITH BACKDRIFT DAMPER, AND SPRING ISOLATION KIT.
3. PROVIDE ALUMINUM HOUSING.
4. PROVIDE WITH DISCONNECT SWITCH, NEMA 1.

KITCHEN HOOD SCHEDULE

ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	OVERALL HOOD DIMENSIONS (LxWxH) (IN)	COLLAR SIZE (IN W.C.)	MATERIAL	AIRFLOW (CFM)	ESP (IN W.C.)	EXHAUST COLLAR VELOCITY (FPM)	MAX OPERATING WEIGHT (LBS)	NOTES
H-1	KITCHEN AREA	RANGE 1	GREENHECK GD2 CONDENSTAE HOOD	36X42X24	(1) 13X11	430SS	525	0.034	540	150	1, 2, 3, 4

1. TYPE II KITCHEN HOOD, MADE OF 18 GAGE 430 STAINLESS STEEL.
2. MOUNTING HEIGHT PER ARCHITECTURAL PLANS. 1
3. PROVIDE WITH FLUORESCENT LIGHT AND FACTORY MOUNTED EXHAUST COLLARS AND MOUNTING BRACKETS.
4. RANGE CANNOT BE USED TO COOK ANY RAW FOOD. REHEAT ONLY. 1

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DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

1

ITEM		UNIT TYPE	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER (CONDENSING UNIT)	MANUFACTURER MODEL NUMBER (FC UNIT)	COOLING CAPACITY					HEATING CAPACITY (MBH)	FAN COIL UNIT				CONDENSING UNIT							REFRIGERANT CHARGE (LBS)	NOTES
							EAT		TOTAL (MBH)	SENSIBLE (MBH)	AMBIENT TEMP (°F)		AIRFLOW (CFM)	VOLT/PH	RATED (A)	MAX OPERATING WEIGHT (LBS)	CAPACITY (MBH) @ 115°F	ELECTRICAL			EER	SEER	REF. PIPE SIZES (RL/RS)	MAX OPERATING WEIGHT (LBS)		
CONDESNSER	FANCOIL						DB (°F)	WB (°F)										V/PH	UNIT MCA (A)	MOCP (A)						
CU-1	IU-1	SPLIT SYSTEM		FIRE RISER ROOM	MITSUBISHI MUZ-GL09NA-U8	MITSUBISHI MSZ-GL09NA-U1	80	65	9	9	115	10.9	580	230/1	1	22	9	230/1	9	15	–	24.6	1/4-3/8	81		1, 2, 3, 4, 5

1. PROVIDE INVERTER DRIVEN COMPRESSOR.
2. ACTUAL OPERATION AT 2200 FEET ABOVE SEA LEVEL.
3. DUCTLESS SINGLE ZONE WALL-MOUNTED SPLIT SYSTEM. PROVIDE UNITS ACCESSORIES AS REQUIRED BY MANUFACTURER FOR COMPLETE SYSTEM OPERATION, EVAPORATOR CONDENSATE DRAIN PAN, TEMPERATURE CONTROLLER WITH COOL/AUTO/OFF.
4. PROVIDE A SINGLE POINT POWER CONNECTION FOR INDOOR AND OUTDOOR UNITS.
5. ACCEPTABLE MANUFACTURERS: DAIKIN, LG.

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1 03/11/2016 CITY COMMENTS

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

GENERAL NOTES AND SCHEDULES

STAMP
PROFESSIONAL ENGINEER STATE OF NEVADA ALEXANDER JANKOVIC EXP. 6-30-17 No. 13957 MECHANICAL
MAR 10 2016

OWNER: CITY OF LAS VEGAS
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DRAWN	JU
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	M0.01

#15.0861

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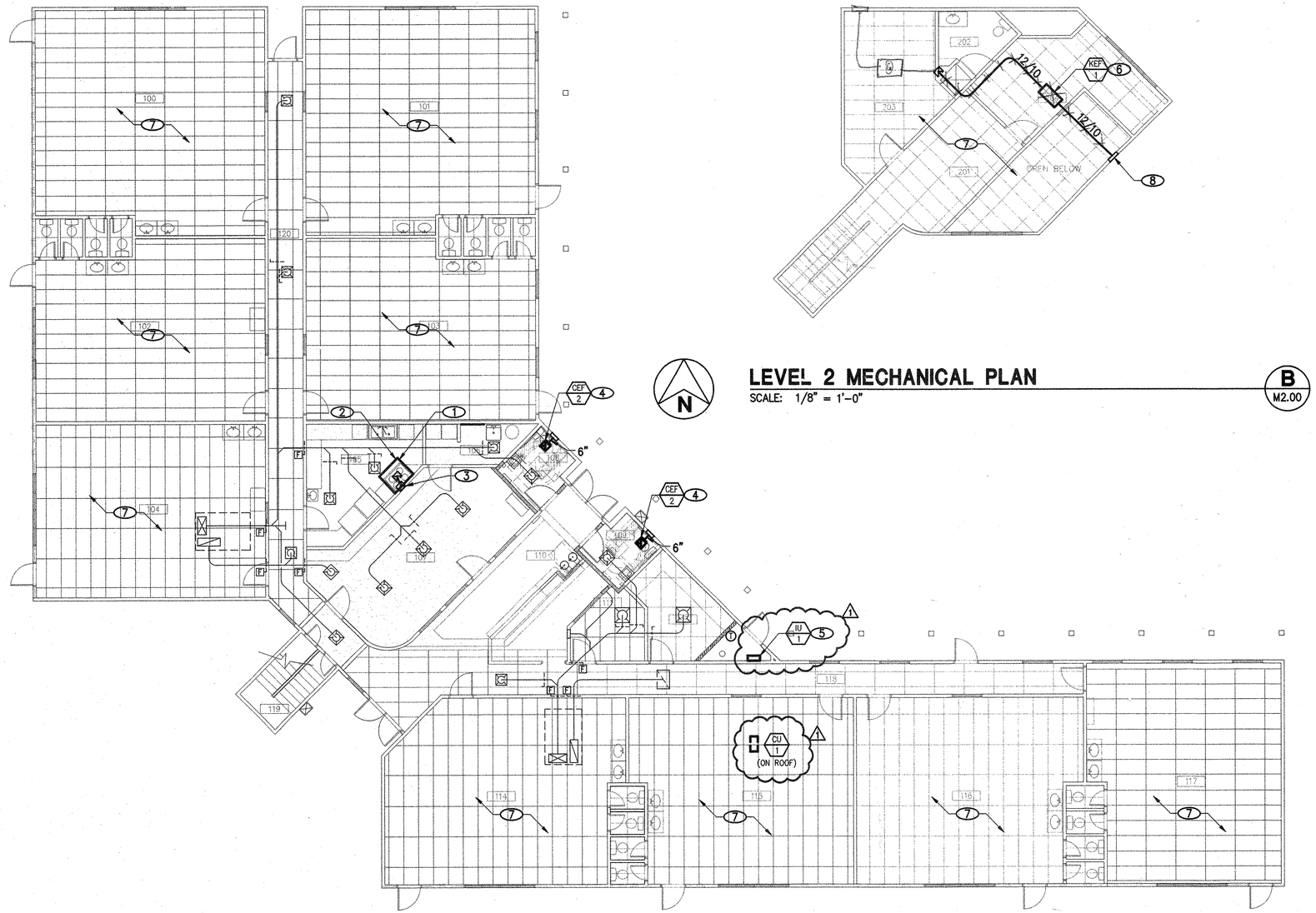

LEVEL 1 MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

A / M2.00

LEVEL 2 MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

B / M2.00

NOTICE

1. EXISTING RANGE HOOD AND EXHAUST FAN SHALL BE REPLACED WITH NEW TYPE 2 HOOD AND EXHAUST FAN TO MATCH EXISTING EXHAUST CFM.

NOTES

1. EXISTING RANGE HOOD AND ASSOCIATED DUCTWORK AND EXHAUST FAN TO BE REMOVED.
2. NEW TYPE II KITCHEN HOOD 36" X 42" X 24", SEE SCHEDULE. BALANCE EXHAUST AIRFLOW TO SCHEDULED CFM.
3. 12/10 EA DUCT UP TO MEZZANINE AND CONNECT TO EXHAUST FAN KEF-1.
4. NEW CEILING EXHAUST FAN. REFER TO 1/M6.00 FOR DETAIL. ROUTE 6ø EA DUCT THROUGH THE WALL AND TERMINATE WITH GREENHECK WALL CAP WC-6.
5. WALL MOUNTED INDOOR UNIT. ROUTE REFRIGERANT LINES TO OUTDOOR CONDENSING UNIT ON ROOF. ROUTE 3/4" DRAIN LINE DOWN THE WALL AND TERMINATE ABOVE FLOOR DRAIN.
6. IN-LINE EXHAUST FAN. REFER TO 2/M6.00 FOR DETAIL. BALANCE EXHAUST AIR FLOW TO MATCH EXISTING EXHAUST CFM.
7. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL SA, RA, EA DIFFUSERS AND REGISTERS. ADJUST DIFFUSER LAYOUT TO MATCH THE NEW REPLACED CEILING LAYOUT. REFER TO ARCHITECTURAL PLANS FOR INFORMATION.
8. 30" X 12" OUTSIDE LOUVER, GREENHECK MODEL ESJ-401.

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CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES
MECHANICAL PLANS

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ALEXANDER JANKOVICH
EXP. 6-30-17
MECHANICAL
No. 13951
MAR 10 2016

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DRAWN	JU
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	M2.00

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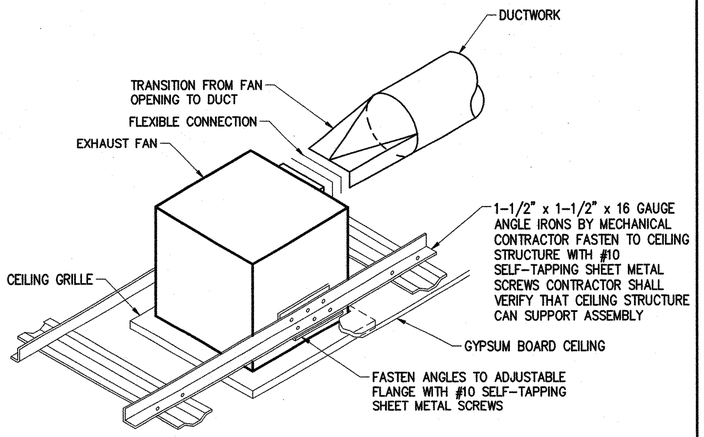
NOTICE:

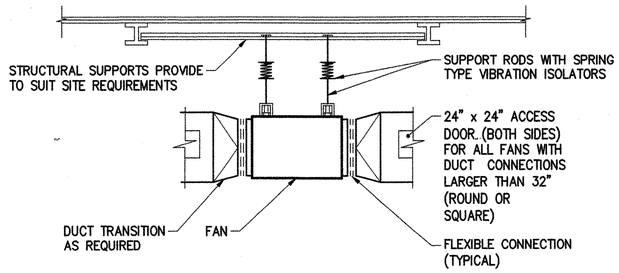
1. LAY-IN CEILING APPLICATIONS SIMILAR.



CEILING EXHAUST FAN

NO SCALE

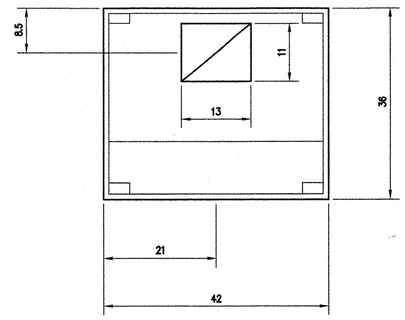
1 / M6.00



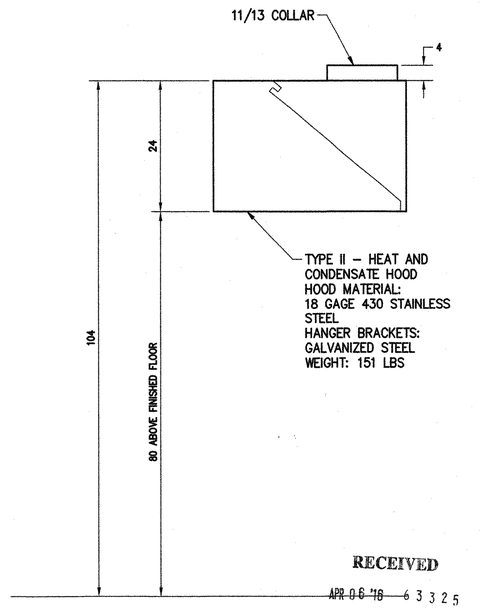
IN-LINE FAN

NO SCALE

2 / M6.00



PLAN VIEW



SECTION

TYPE II RANGE HOOD

5 / M6.00

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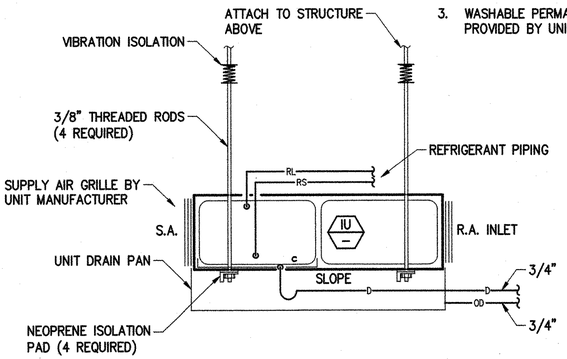
NOTE:

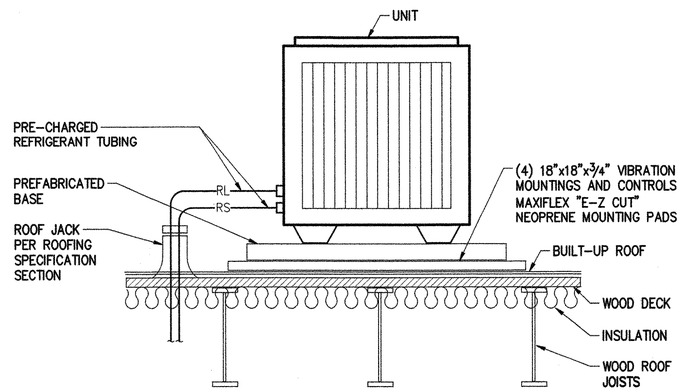
1. ROUTE DRAIN LINE TO A FLOOR SINK OR APPROVED RECEPTOR
2. PROVIDE SECONDARY DRAIN PAN AND ROUTE TO A VISIBLE LOCATION.
3. WASHABLE PERMANENT FILTER TO BE PROVIDED BY UNIT MANUFACTURER.



INDOOR UNIT MOUNTING

(IU-1.1, IU-1.2)

3 / M6.00



OUTDOOR UNIT

NO SCALE

4 / M6.00

CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES
DESIGN DETAILS

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ALEXANDRE JANKOWSKI
EXP. 6-30-17
MECHANICAL
No. 19957
MAR 10 2016

OWNER: CITY OF LAS VEGAS
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SHT NO	M6.00

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ELECTRICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION
(-)	SHEET NOTE
△	REVISION NUMBER
—o—o—o—	COVE/LOW VOLTAGE LIGHTING
A	LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED ON FIXTURE SCHEDULE
	FLUORESCENT FIXTURE
	FLUORESCENT FIXTURE
	DOWNLIGHT FIXTURE
	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS
	WALL MOUNTED FIXTURE
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED WALL MOUNTED
S	SINGLE POLE SWITCH AT +48" UNLESS NOTED
S_3	3-WAY POLE SWITCH AT +48" UNLESS NOTED
S_4	4-WAY POLE SWITCH AT +48" UNLESS NOTED
S_D	DIMMER SWITCH - SOLID STATE TYPE AT +48" UNLESS NOTED
S_{2P}	2 POLE SWITCH
S_K	SWITCH - KEY OPERATED
S_M	SWITCH WITH MOTION SENSOR
S_{2M}	DUAL SWITCH WITH MOTION SENSOR
M	CEILING MOUNTED MOTION SENSOR
D	DAYLIGHT OR MOTION SENSOR (INDOORS)
S_T	THERMAL OVERLOAD SWITCH
	DUPLEX RECEPTACLE AT +18" UNLESS NOTED
	GFCI RECEPTACLE AT +48" UNLESS NOTED
	DOUBLE DUPLEX RECEPTACLE AT +18" UNLESS NOTED
	ISOLATED GROUND TYPE (ORANGE) DUPLEX RECEPTACLE AT +18" UNLESS NOTED
	SPECIAL RECEPTACLE AT +18" UNLESS NOTED
	FLUSH FLOOR DUPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	1/2 SWITCHED (BOTTOM HALF) DUPLEX RECEPTACLE AT +18" UNLESS NOTED
C	RECEPTACLE INSTALLED ABOVE COUNTER
H	RECEPTACLE INSTALLED HORIZONTALLY
P	SINGLE RECEPTACLE WITH INTEGRAL LOW VOLTAGE TRANSFORMER AND (2) USB PORTS
	JUNCTION BOX
FS	JUNCTION BOX AND SWITCH WITH CONNECTION TO FIRE/SMOKE DAMPER. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM AND MECHANICAL CONTROL DIAGRAMS
V	JUNCTION BOX AND SWITCH WITH CONNECTION TO VARIABLE AIR VOLUME BOX. COORDINATE REQUIREMENTS WITH MECHANICAL CONTROL DIAGRAMS
	NON-FUSED DISCONNECT SWITCH - 30A, 3P UNLESS NOTED OTHERWISE

ELECTRICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION
F	FUSED DISCONNECT SWITCH - 30A, 3P WITH 30A FUSES UNLESS NOTED OTHERWISE
R	RELAY
C	CONTACTOR
TS	TIMESWITCH
PC	PHOTOCELL (INSTALL ON ROOF FACING NORTH)
T / H	THERMOSTAT OUTLET AT +44" UNLESS NOTED
	PUSHBUTTON TYPE CONTROL STATION
	SURFACE MOUNTED PANELBOARD
	MAIN SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
	CONCRETE PULLBOX WITH HEAVY DUTY STEEL TRAFFIC COVER
T	TRANSFORMER
	MOTOR OUTLET
	HOMERUN CONDUIT - STROKES INDICATE QUANTITY OF CONDUCTORS
	CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS
- - - - -	CONDUIT AND/OR WIRE BELOW FLOOR OR GRADE
—X—X—X—	EXISTING CONDUIT AND/OR WIRE TO BE REMOVED
	EXISTING CONDUIT AND/OR WIRE TO REMAIN (SHOWN LIGHT LINEWEIGHT)
	CONDUIT STUB-OUT
	CIRCUITING - STROKE WITH DOT INDICATES ISOLATED GROUND CONDUCTOR
	1/2"-2 #12 & 1 #12 GRND THWN UNLESS NOTED
	1/2"-3 #12 & 1 #12 GRND THWN UNLESS NOTED
	1/2"-4 #12 & 1 #12 GRND THWN UNLESS NOTED
	CIRCUIT BREAKER
	FUSIBLE SWITCH
	GROUNDING ELECTRODE
M	SINGLE METER WITH CT
	SHUNT TRIP DEVICE LOCATED IN METAL ENCLOSURE WITH HINGED AND LOCKABLE COVER
	MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS
	METER
	GROUND BUS AND GROUND ELECTRODES

PLAN/RISER SHEET — PLAN SHEET — MECHANICAL EQUIPMENT TYPE, MECHANICAL EQUIPMENT NUMBER, E = EXISTING

SHEET INDEX

ISSUE: 2016-12-15 ASR 05 CARD READERS	2016-03-11 CITY COMMENTS	2016-02-08 PERMIT ISSUE	SHEET NUMBER	SHEET DESCRIPTION
•	•	•	E0.00	COVER SHEET
		•	E0.01	LIGHTING FIXTURE SCHEDULE
•			E0.01	LIGHTING FIXTURE SCHEDULE
		•	ES1.01	ELECTRICAL SITE PLAN
		•	ED1.01	LIGHTING DEMO PLANS
		•	E1.01	LIGHTING PLAN
•	•	•	E2.01	POWER PLAN
	•	•	E5.01	SINGLE LINE DIAGRAM AND SCHEDULES

2009 IECC LIGHTING COMPLIANCE CALCULATIONS

1. AN ENERGY COMPLIACNE REPORT WILL NOT BE PROVIDED IN ACCORDANCE WITH IECC 2009, SOUTHERN NEVADA AMMENDMENTS SECTION 101.43, EXCEPTION #7.

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FEB 06 2017 DM

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BUILDING AND SAFETY

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334892
1/23/17

THESE ITEMS WERE CHECKED UNDER THE 2012 IRC, THE 2011 NEC, AND THE 2012 IMC, UPC, AND UMC

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REVISIONS
1 03/11/2016 CITY COMMENTS
3 12/12/2016 ASR 05

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DATE	02/08/2016
SCALE	NONE
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	E0.00

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COVER SHEET

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ELECTRICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION
	SHEET NOTE
	REVISION NUMBER
	COVE/LOW VOLTAGE LIGHTING
A	LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED ON FIXTURE SCHEDULE
	FLUORESCENT FIXTURE
	FLUORESCENT FIXTURE
	DOWNLIGHT FIXTURE
	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS
	WALL MOUNTED FIXTURE
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED WALL MOUNTED
S	SINGLE POLE SWITCH AT +48" UNLESS NOTED
S_3	3-WAY POLE SWITCH AT +48" UNLESS NOTED
S_4	4-WAY POLE SWITCH AT +48" UNLESS NOTED
S_D	DIMMER SWITCH - SOLID STATE TYPE AT +48" UNLESS NOTED
S_{2P}	2 POLE SWITCH
S_K	SWITCH - KEY OPERATED
S_M	SWITCH WITH MOTION SENSOR
S_{2M}	DUAL SWITCH WITH MOTION SENSOR
M	CEILING MOUNTED MOTION SENSOR
D	DAYLIGHT OR MOTION SENSOR (INDOORS)
S_T	THERMAL OVERLOAD SWITCH
	DUPLEX RECEPTACLE AT +18" UNLESS NOTED
	GFCI RECEPTACLE AT +48" UNLESS NOTED
	DOUBLE DUPLEX RECEPTACLE AT +18" UNLESS NOTED
	ISOLATED GROUND TYPE (ORANGE) DUPLEX RECEPTACLE AT +18" UNLESS NOTED
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	FLUSH FLOOR DUPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	1/2 SWITCHED (BOTTOM HALF) DUPLEX RECEPTACLE AT +18" UNLESS NOTED
C	RECEPTACLE INSTALLED ABOVE COUNTER
H	RECEPTACLE INSTALLED HORIZONTALLY
P	SINGLE RECEPTACLE WITH INTEGRAL LOW VOLTAGE TRANSFORMER AND (2) USB PORTS
J	JUNCTION BOX
FS	JUNCTION BOX AND SWITCH WITH CONNECTION TO FIRE/SMOKE DAMPER. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM AND MECHANICAL CONTROL DIAGRAMS
V	JUNCTION BOX AND SWITCH WITH CONNECTION TO VARIABLE AIR VOLUME BOX. COORDINATE REQUIREMENTS WITH MECHANICAL CONTROL DIAGRAMS
N	NON-FUSED DISCONNECT SWITCH - 30A, 3P UNLESS NOTED OTHERWISE

ELECTRICAL SYMBOL LEGEND

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SYMBOL	DESCRIPTION
F	FUSED DISCONNECT SWITCH - 30A, 3P WITH 30A FUSES UNLESS NOTED OTHERWISE
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PC	PHOTOCELL (INSTALL ON ROOF FACING NORTH)
T / TH	THERMOSTAT OUTLET AT +44" UNLESS NOTED
	PUSHBUTTON TYPE CONTROL STATION
	SURFACE MOUNTED PANELBOARD
	MAIN SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
	CONCRETE PULLBOX WITH HEAVY DUTY STEEL TRAFFIC COVER
T	TRANSFORMER
	MOTOR OUTLET
	HOMERUN CONDUIT - STROKES INDICATE QUANTITY OF CONDUCTORS
	CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS
	CONDUIT AND/OR WIRE BELOW FLOOR OR GRADE
-X-X-X-	EXISTING CONDUIT AND/OR WIRE TO BE REMOVED
	EXISTING CONDUIT AND/OR WIRE TO REMAIN (SHOWN LIGHT LINEWEIGHT)
	CONDUIT STUB-OUT
	CIRCUITING - STROKE WITH DOT INDICATES ISOLATED GROUND CONDUCTOR
	1/2"-2 #12 & 1 #12 GRND THWN UNLESS NOTED
	1/2"-3 #12 & 1 #12 GRND THWN UNLESS NOTED
	1/2"-4 #12 & 1 #12 GRND THWN UNLESS NOTED
	CIRCUIT BREAKER
	FUSIBLE SWITCH
	GROUNDING ELECTRODE
M	SINGLE METER WITH CT
	SHUNT TRIP DEVICE LOCATED IN METAL ENCLOSURE WITH HINGED AND LOCKABLE COVER
	MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS
	METER
	GROUND BUS AND GROUND ELECTRODES

PLAN/RISER SHEET

PLAN SHEET

MECHANICAL EQUIPMENT TYPE
MECHANICAL EQUIPMENT NUMBER
E = EXISTING

SHEET INDEX

ISSUE: 2016-03-11 CITY COMMENTS	ISSUE: 2016-02-08 PERMIT ISSUE	SHEET NUMBER	SHEET DESCRIPTION
•	•	E0.00	COVER SHEET
	•	E0.01	LIGHTING FIXTURE SCHEDULE
	•	ES1.01	ELECTRICAL SITE PLAN
	•	ED1.01	LIGHTING DEMO PLANS
	•	E1.01	LIGHTING PLAN
•	•	E2.01	POWER PLAN
•	•	E5.01	SINGLE LINE DIAGRAM AND SCHEDULES

2009 IECC LIGHTING COMPLIANCE CALCULATIONS

1. AN ENERGY COMPLIACNE REPORT WILL NOT BE PROVIDED IN ACCORDANCE WITH IECC 2009, SOUTHERN NEVADA AMMENDMENTS SECTION 101.43, EXCEPTION #7.

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APR 06 '16 63325
CITY OF LAS VEGAS

REVIEWED FOR CODE COMPLIANCE
APR 19 2016
BUREAU VERITAS NORTH AMERICA

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
1 03/11/2016 CITY COMMENTS

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

COVER SHEET

STAMP
PROFESSIONAL ENGINEER-STATE OF NEVADA
LESLIE J. FERNANDEZ
Exp. 06/30/17
ELECTRICAL
No. 11890
MAR 0 9 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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DRAWN	DJG
FILE	
DATE	02/08/2016
SCALE	NONE
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	E0.00

#15.0881

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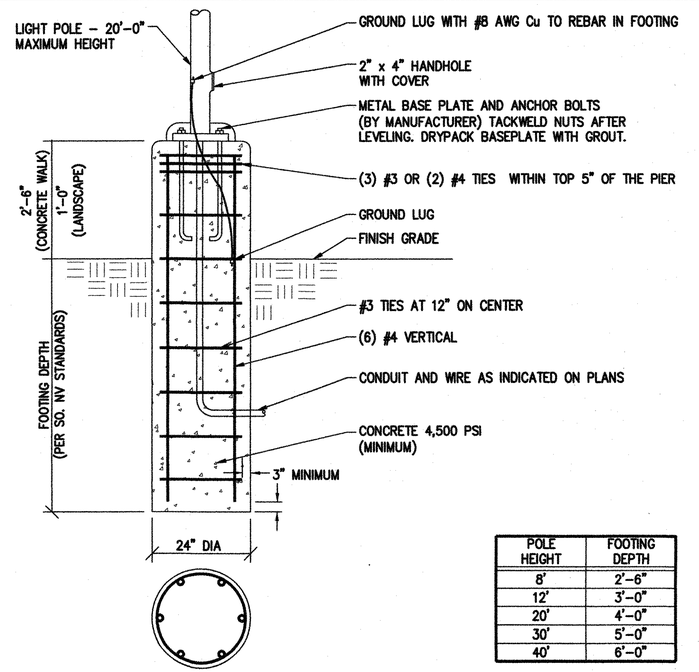
FIXTURE SCHEDULE

FIXT. TYPE	MANUFACTURER		VOLT AMPS	MOUNTING	LAMP TYPE	REMARKS	VOLT
	NAME	CATALOG NUMBER					
A	METALUX	FC8 232 A125 UNV EL	64	RECESSED	(2) F32T8 35K	1'X4', 2 LAMP, FLUORESCENT FLANGED, ACRYLIC LENS, EMERGENCY BATTERY PACK	120
B	LUMARK	XTOR1A	7	SURFACE	LED	WALL BRACKET	120
C	METALUX	2GC8 232 A125 UNV EB81	64	RECESSED	(2) F32T8 / 35K	2'x4' 2 LAMP LENSED GRID TROFFER	120
CE	METALUX	2GC8 232 A125 UNV EB81 EL14	64	RECESSED	(2) F32T8 / 35K	2'x4' 2 LAMP LENSED GRID TROFFER WITH EMERGENCY BATTERY PACK	120
[illegible]	SURE-LITES	SEL25		SURFACE	LED	DUAL HEAD EMERGENCY BATTERY PACK UNIT	120
⊗	SURE-LITES	LPX 6	1	SURFACE	LED	EXIT SIGN, WHITE WITH RED LETTERS, ARROWS AS INDICATED ON PLAN	120
AA1	McGRAW EDISON	GLEON AE 04 LED E1 T4FT 700 MS/X-L20 POLE: SSS4A20S	138	POLE, SEE 1/E0.01	LED 4000K	SINGLE HEAD LED PARKING LOT FIXTURE ON 20'-0" POLE, DUAL LEVEL MOTION SENSOR	120
AA2	McGRAW EDISON	GLEON AE 04 LED E1 T4FT 700 MS/X-L20 LS/HSS POLE: SSS4A20S	138	POLE, SEE 1/E0.01	LED 4000K	SINGLE HEAD LED PARKING LOT FIXTURE ON 20'-0" POLE, DUAL LEVEL MOTION SENSOR, HOUSE SIDE SHEILD	120

NOTICE

1. REFER TO SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS BOLTED LIGHT POLE BASE DETAIL. IN THE CASE OF ANY DISCREPANCIES SO. NV STANDARDS SHALL GOVERN.



POLE HEIGHT	FOOTING DEPTH
8'	2'-6"
12'	3'-0"
20'	4'-0"
30'	5'-0"
40'	6'-0"

BOLTED LIGHT POLE BASE - ABOVE GRADE (1 / E0.01)
NO SCALE

AS BUILT

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ELECTRICAL
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City of Las Vegas, Nevada
EDS MAR 07 2016
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#15.0881

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
LIGHTING FIXTURE SCHEDULE

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Exp. 12/31/17
ELECTRICAL
No. 8719
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FILE	
DATE	02/08/2016
SCALE	NONE
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	E0.01

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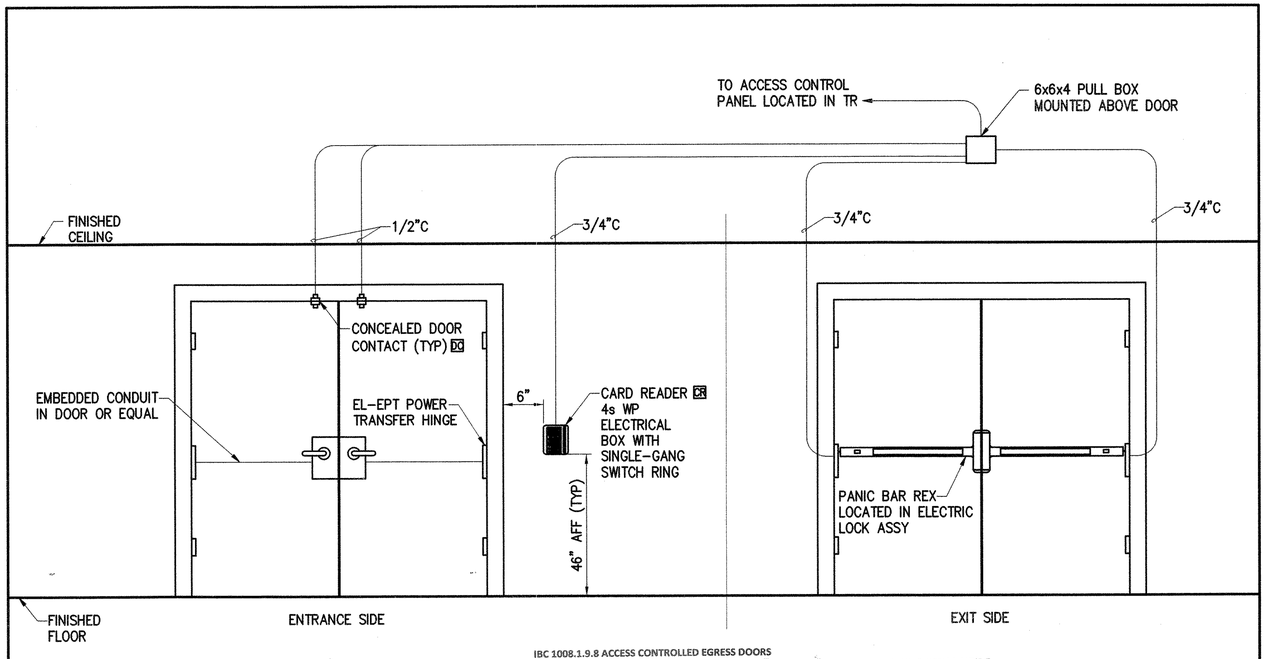


IBC 1008.1.9.8 ACCESS CONTROLLED EGRESS DOORS
Install all doors in accordance with section 1008.1.9.8

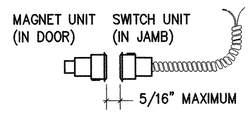
DOUBLE DOOR ACCESS CONTROL HARDWARE

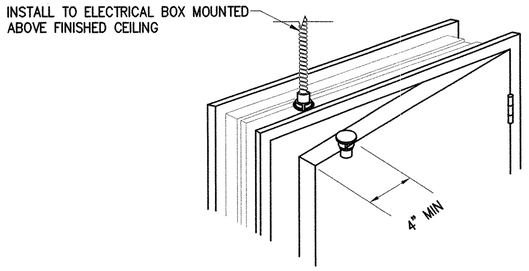
NO SCALE

1 / E0.02

NOTICE:

1. DRILL 3/4" HOLE IN MOUNTING SURFACE. PRESS SWITCH OR MAGNET INTO PLACE. APPLICATION OF EPOXY OR CONTACT CEMENT MAY BE NECESSARY.





DC

CONCEALED MAGNETIC DOOR CONTACT

NO SCALE

1 / E0.02

REVIEWED FOR CODE COMPLIANCE

FEB 06 2017 DM

CITY OF LAS VEGAS
BUILDING AND SAFETY

3 NEW SHEET

#15.0881

CITY OF LAS VEGAS
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3 12/12/2016 ASR 05

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

ELECTRICAL DIAGRAMS

STAMP

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT R. JONES JR.
EXP. 6/30/17
ELECTRICAL
No. 21370

DEC 14 2016

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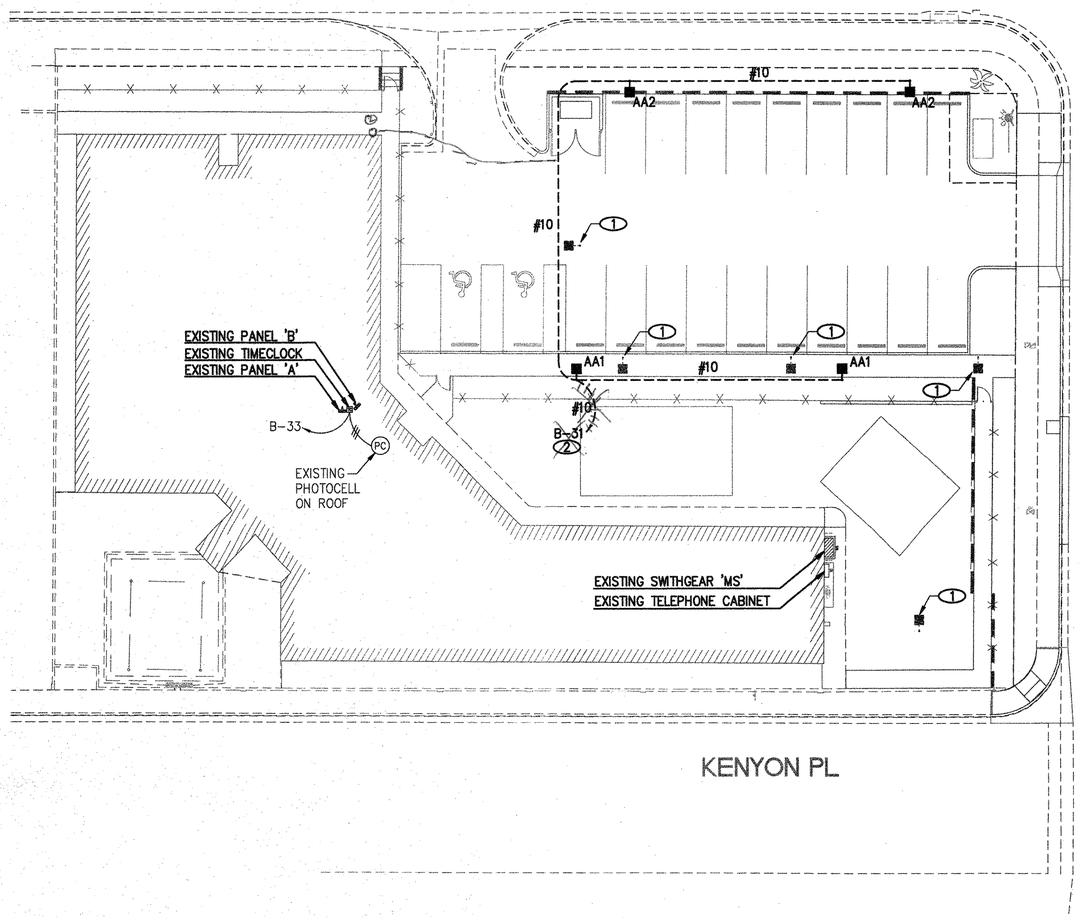

ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"

A
ES1.01

AS BUILT

NOTICE

1. EXISTING SHOWN LIGHT, NEW SHOWN BOLD.

NOTES

1. REMOVE EXISTING POLE LIGHT, BASE, RACEWAYS, WIRING ETC.
2. ROUTE CIRCUIT VIA EXISTING TIMECLOCK AND PHOTOCELL.

PLANS APPROVED
ELECTRICAL
Building & Safety Dept.
City of Las Vegas, Nevada

EDS MAR 07 2016

Joes not include Civil, Structural, Plumbing/Mechanical or Off-Site Improvements. Make No Change Without Approval. Plan is

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NEVADA

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

ELECTRICAL SITE PLAN

STAMP

PROFESSIONAL ENGINEER STATE OF NEVADA
RICK H. REYBURN
Exp. 12/31/17
ELECTRICAL
No. 8719
FEB 05 2016

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SCALE	AS NOTED
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CLV DWG NO	521-301
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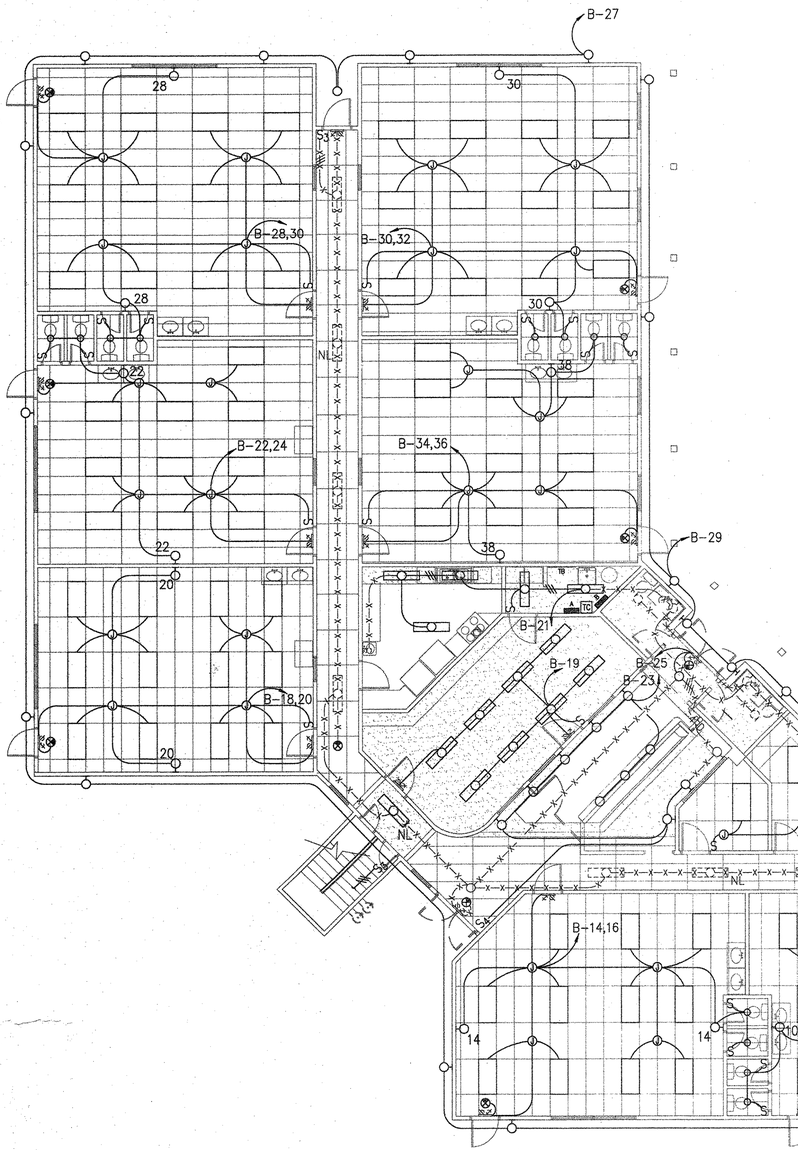
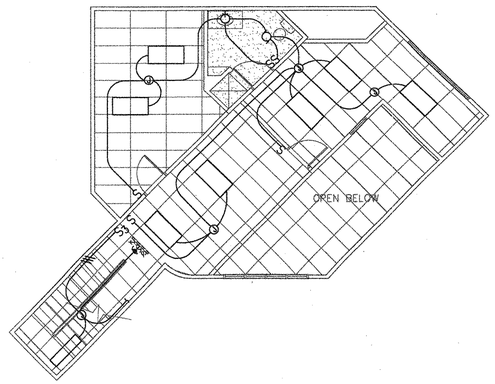


FIRST FLOOR - LIGHTING DEMO PLAN

SCALE: 1/8" = 1'-0"

A
E1.01



SECOND FLOOR - LIGHTING DEMO PLAN

SCALE: 1/8" = 1'-0"

B
E1.01

NOTICE

1. EXISTING SHOWN LIGHT, EXISTING TO BE REMOVED SHOWN LIGHT' AND DASHED.

NOTES

1. NOT USED

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ELECTRICAL
Building & Safety Dept.
City of Las Vegas, Nevada
EDS MAR 07 2016
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CITY OF LAS VEGAS NEVADA

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jba consulting engineers

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

LIGHTING DEMO PLANS

STAMP

PROFESSIONAL ENGINEER - STATE OF NEVADA
RICK H. REYBURN
Exp. 12/31/17
ELECTRICAL
No. 8719
FEB 05 2016

OWNER: CITY OF LAS VEGAS
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DRAWN	DJG
FILE	
DATE	02/08/2016
SCALE	NONE
REID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	ED1.01

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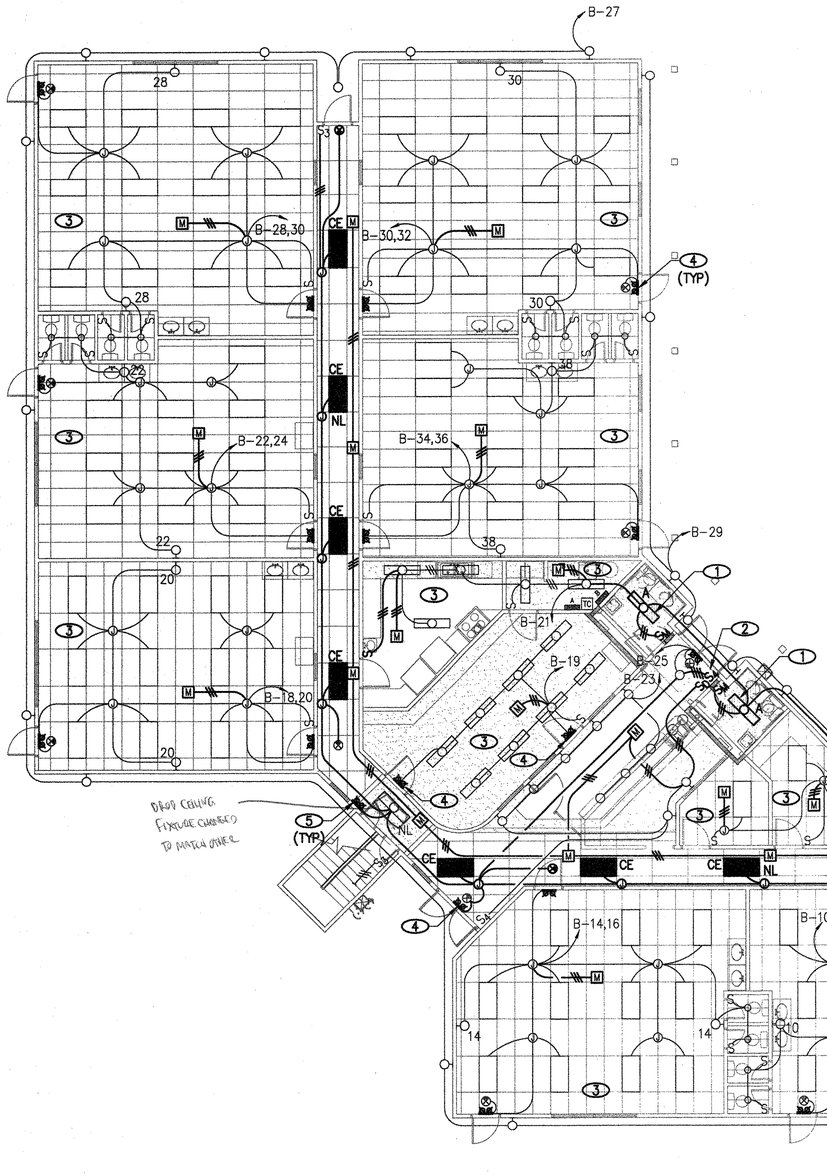
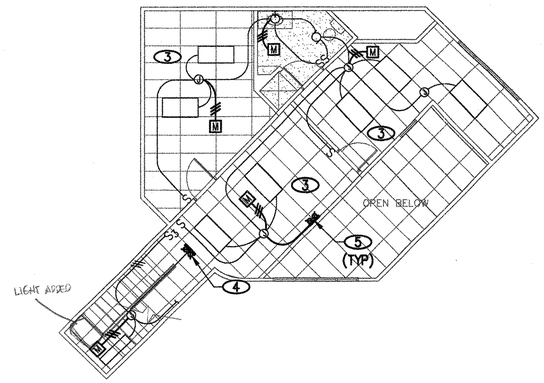


FIRST FLOOR - LIGHTING PLAN

SCALE: 1/8" = 1'-0"

A E1.01



SECOND FLOOR - LIGHTING PLAN

SCALE: 1/8" = 1'-0"

B E1.01

AS BUILT

NOTICE

1. EXISTING SHOWN LIGHT, EXISTING TO BE REMOVED SHOWN LIGHT AND DASHED, NEW SHOWN BOLD.

NOTES

1. REMOVE AND REPLACE EXISTING FIXTURE. CONNECT TO EXISTING CIRCUIT. PROVIDE SWITCHING AS INDICATED.
2. REMOVE AND REPLACE EXISTING SWITCHES. PROVIDE RACEWAYS, BOXES, WIRING, ETC AS REQUIRED TO EXTEND CIRCUITING.
3. EXISTING FLUORESCENT FIXTURES TO REMAIN. CLEAN AND RE-LAMP. PROVIDE NEW BALLASTS AS REQUIRED,
4. REMOVE AND REPLACE EMERGENCY BATTERY BACK-UP UNIT. RE-CONNECT TO EXISTING CIRCUIT.
5. PROVIDE ADDITIONAL EMERGENCY BATTERY BACK-UP UNITS FOR EMERGENCY EGRESS. PROVIDE UN-SWITCHED HOT ROOM LIGHTING CIRCUIT. VERIFY CONNECTION LOCATION WITH FIELD CONDITION.

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

LIGHTING PLAN

STAMP
PROFESSIONAL ENGINEER-STATE OF NEVADA
RICK H. REYBURN
Exp. 12/31/17
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No. 8719
FEB 05 2016

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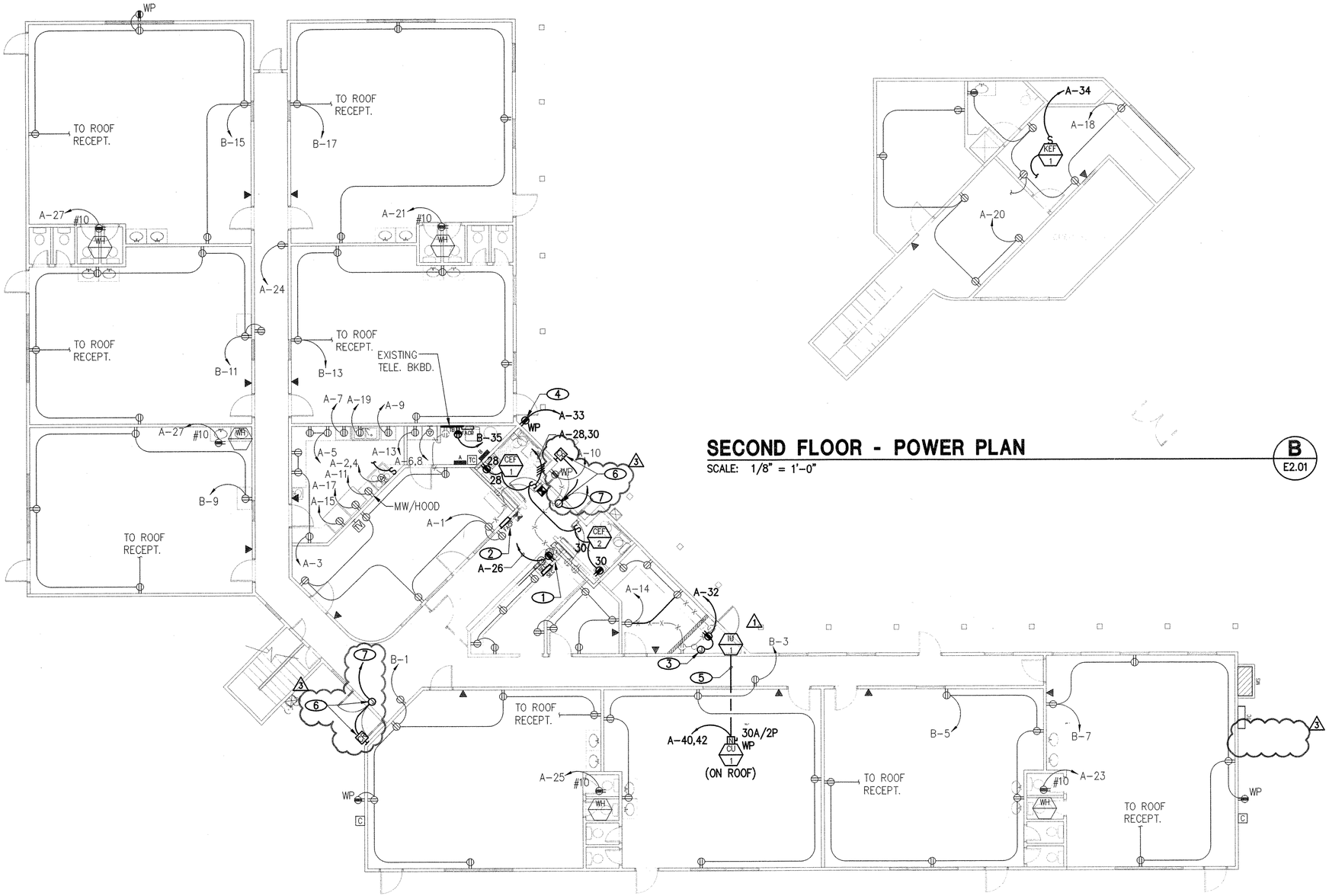

FIRST FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

A
E2.01

SECOND FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

B
E2.01

NOTICE

1. EXISTING SHOWN LIGHT, EXISTING TO BE REMOVED SHOWN LIGHT AND DASHED, NEW SHOWN BOLD.
2. REFER TO FIRE ALARM SPECIFICATION FOR FIRE ALARM SYSTEM REQUIREMENTS.

REVIEWED FOR CODE COMPLIANCE

FEB 06 2017 DM

CITY OF LAS VEGAS
BUILDING AND SAFETY

NOTES

1. RECEPTACLE FOR EWC, COORDINATE ROUGH-IN LOCATION AND HEIGHT WITH DIVISION 22. PROVIDE CORD AND PLUG SET.
2. EXISTING FIRE ALARM CONTROL PANEL TO BE REMOVED AND REPLACED, SEE SPECIFICATION. CONNECT NEW PANEL TO EXISTING POWER CIRCUIT AND REMOTE ALARM. PROVIDE ALL RACEWAYS, WIRING, ETC. AS REQUIRED.
3. CONNECT TO ELECTRONIC TRAP PRIMER. COORDINATE WITH DIVISION 21.
4. RECEPTACLE FOR LANDSCAPE IRRIGATION CONTROLLER, COORDINATE LOCATION AND REQUIREMENTS WITH LANDSCAPE DRAWINGS.
5. IU-1 & CU-1 ARE INTERLOCKED BY THE MANUFACTURER.
6. CARD READER, REFER TO DIAGRAM 1/E0.01.
7. 3/4"C TO 'TBB', REFER TO DIAGRAM 1/E0.01.

AS BUILT

CITY OF LAS VEGAS NEVADA

REVISIONS
1 03/11/2016 CITY COMMENTS
2 12/12/2016 ASR 05

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

POWER PLAN

STAMP

PROFESSIONAL ENGINEER STATE OF NEVADA
ROBERT R. JONES JR.
EXP. 6/30/17
ELECTRICAL
No. 21370

DEC 14 2016

OWNER: CITY OF LAS VEGAS
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HANSEN NO	60316
SHT NO	E2.01

#15.0881

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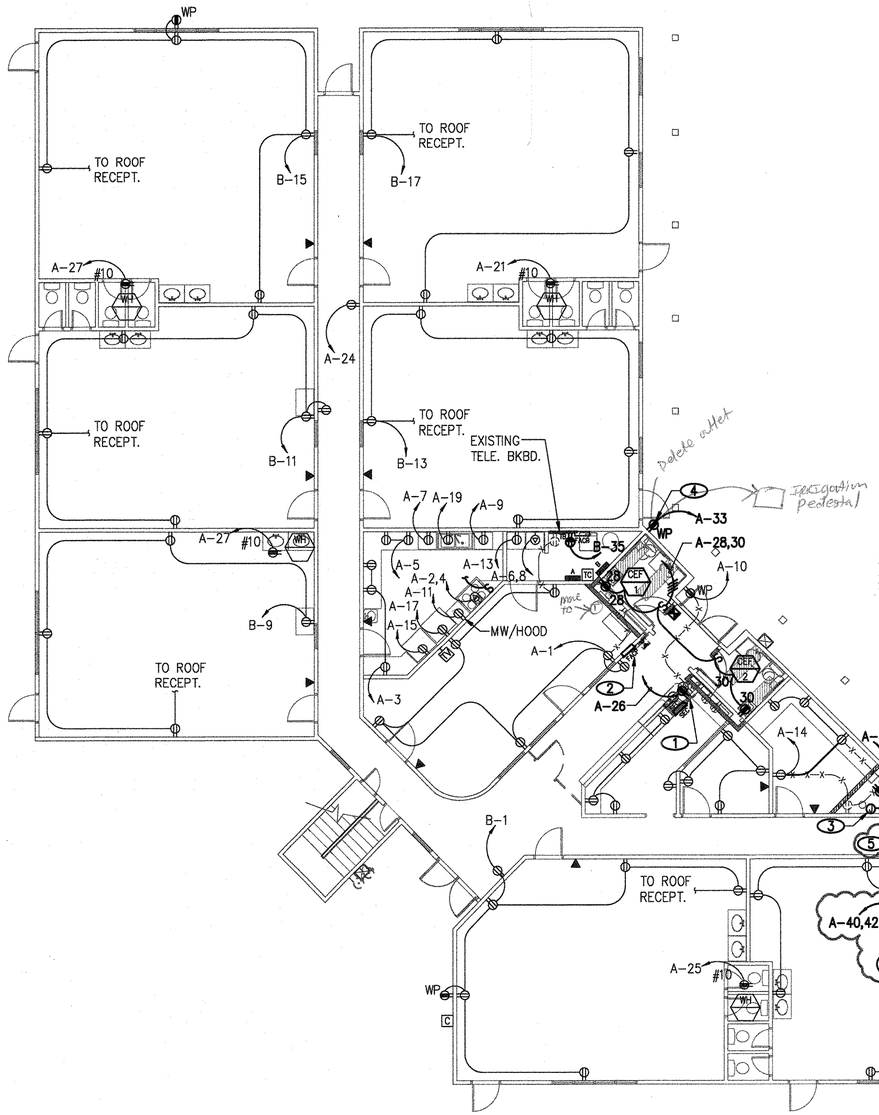
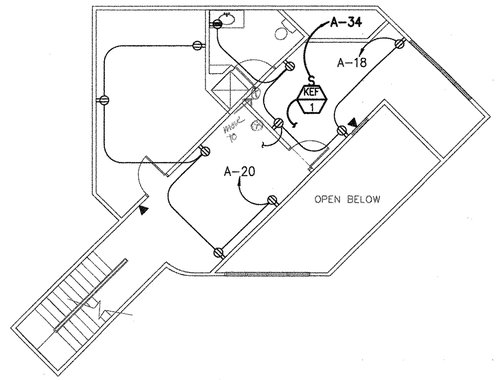


SECOND FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

B
E2.01



FIRST FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

A
E2.01

AS BUILT

NOTICE

1. EXISTING SHOWN LIGHT, EXISTING TO BE REMOVED SHOWN LIGHT AND DASHED, NEW SHOWN BOLD.
2. REFER TO FIRE ALARM SPECIFICATION FOR FIRE ALARM SYSTEM REQUIREMENTS.

NOTES

1. RECEPTACLE FOR EWC, COORDINATE ROUGH-IN LOCATION AND HEIGHT WITH DIVISION 22. PROVIDE CORD AND PLUG SET.
2. EXISTING FIRE ALARM CONTROL PANEL TO BE REMOVED AND REPLACED, SEE SPECIFICATION. CONNECT NEW PANEL TO EXISTING POWER CIRCUIT AND REMOTE ALARM. PROVIDE ALL RACEWAYS, WIRING, ETC. AS REQUIRED.
3. CONNECT TO ELECTRONIC TRAP PRIMER. COORDINATE WITH DIVISION 21.
4. RECEPTACLE FOR LANDSCAPE IRRIGATION CONTROLLER, COORDINATE LOCATION AND REQUIREMENTS WITH LANDSCAPE DRAWINGS.
1. 5. IU-1 & CU-1 ARE INTERLOCKED BY THE MANUFACTURER.

RECEIVED
APR 06 '16 63325
CITY OF LAS VEGAS

REVIEWED FOR CODE COMPLIANCE
APR 19 2016 DK
BUREAU VERITAS NORTH AMERICA, INC

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
1 03/11/2016 CITY COMMENTS

CONSULTANT
JBA Las Vegas
5155 W Patrick Ln
Las Vegas, NV 89118
p 702.362.9200
jba consulting engineers

ALTA DAYCARE UPGRADES
POWER PLAN

STAMP
PROFESSIONAL ENGINEER-STATE OF NEVADA
LESLIE J. FERNANDEZ
Exp. 06/30/17
ELECTRICAL
No. 11890
MAR 03 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

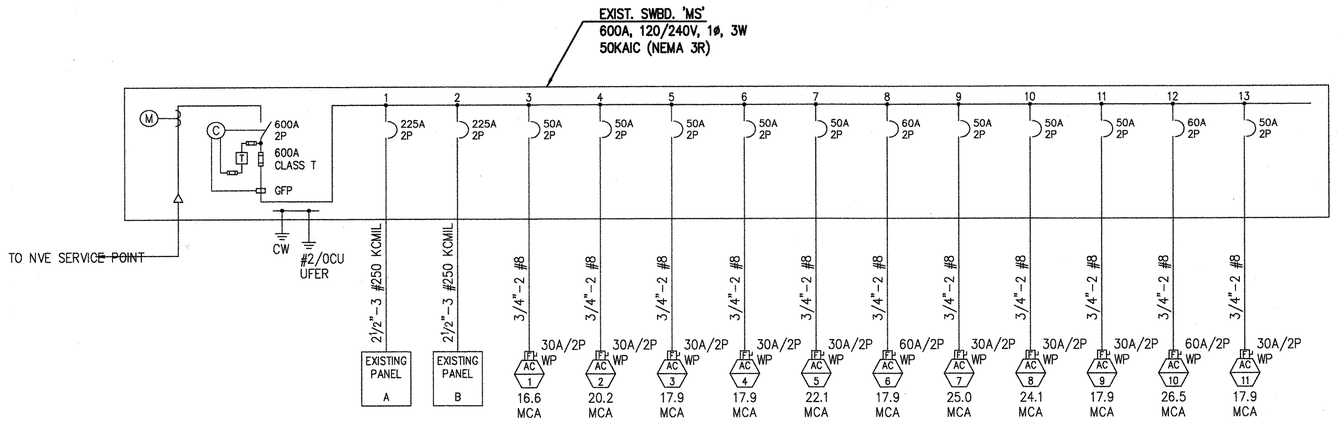
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	DJG
FILE	
DATE	02/08/2016
SCALE	AS NOTED
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	E2.01

#15.0881

DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOS COMMON LAW COPYRIGHT APPLIES ON THE DRAWINGS AND SPECIFICATIONS ANY USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS RETURNED BY THE OWNER MAY BE UTILIZED ONLY FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT B A I C CO.2010

J:\15.0881\Drawings\BAU\15150881-E201.dwg, 3/7/2016 8:19:11 AM, dianne.gwellir, Bluebeam PDF (v21, ARIB_D_22.00)_a_34.00_by(fast), 1:1



SINGLE LINE DIAGRAM

SCALE: NONE

1
E5.01

NOTICE

1. EXISTING SHOWN LIGHT, NEW SHOWN BOLD.
2. EXISTING SINGLE LINE DIAGRAM SHOWN FOR REFERENCE ONLY.

LOAD CALCULATIONS

EXISTING SWITCHBOARD 'MS'			
EXIST. PANEL 'A'	=	49.9	KVA
EXIST. PANEL 'B'	=	47.0	KVA
EXIST. AC-1	=	3.2	KVA
EXIST. AC-2	=	3.9	KVA
EXIST. AC-3	=	3.4	KVA
EXIST. AC-4	=	3.4	KVA
EXIST. AC-5	=	4.2	KVA
EXIST. AC-6	=	3.4	KVA
EXIST. AC-7	=	4.8	KVA
EXIST. AC-8	=	4.6	KVA
EXIST. AC-9	=	3.4	KVA
EXIST. AC-10	=	5.0	KVA
EXIST. AC-11	=	3.4	KVA
TOTAL	=	140	KVA
/240V ,1ø	=	582	A

EXISTING ⚠1

PANEL: A — VOLTAGE: 240 / 120 1ø 3W — BUS: 225A — MAINS: L.O — AIC RATING: 10,000 — DATE: 3/9/16 7:19 AM — JOB: 15.0881 — LOCATION: UTILITY ROOM — MOUNTING: FLUSH — CIRCUIT CODE: blank or N: NON-CONTINUOUS, L: LONG-CONTINUOUS, R: DEMANDABLE RECEPTACLES, K: KITCHEN — NO. OF EQUIPMENT: 0

DWT NO	CODE	TRIP	POLE	LOAD DESIGNATION	(NOTE)	M	R	L	CONNECTED VA ØA	ØB	A/B	ØA	ØB	L	R	M	(NOTE)	LOAD DESIGNATION	TRIP	POLE	CODE	DWT NO
1	R	20	1	(E) REC – PLAYROOM					1620		•	4000						(E) RANGE	50	2	N	2
3	R	20	1	(E) REC – KITCHEN						1500	•		4000									4
5	R	20	1	(E) REC – KITCHEN					1500	–	•	2500						(E) DRYER	30		N	6
7	N	20	1	(E) DISHWASHER						1200	•		2500					–		2	N	8
9	N	20	1	(E) DISHWASHER					800		•	1200						(E) WATER COOLER	20	1	N	10
11	N	20	1	(E) MICROWAVE/HOOD						1620	•		1800					(E) REC – RECEPTION, DIRECTOR	20	1	R	12
13	R	20	1	(E) WASHER					1500		•	1440						(E) REC – COMPUTER ROOM	20	1	R	14
15	N	20	1	(E) REFRIGERATOR						900	•		1920					(E) LTS – UPPER	20	1	L	16
17	N	20	1	(E) REFRIGERATOR					900		•	1440						(E) REC – UPPER	20	1	R	18
19	N	20	1	(E) GARBAGE DISPOSAL						750	•		1260					(E) REC – UPPER	20	1	R	20
21	N	30	1	(E) WATER HEATER					800		•	1100						(E) WATER COOLER	20	1	N	22
23	N	30	1	(E) WATER HEATER						800	•		1100					(E) WATER COOLER	20	1	N	24
25	N	30	1	(E) WATER HEATER					1100		•	700		1			(1)	REC – EWC	20	1	N	26
27	N	30	1	(E) WATER HEATER						1100	•		250	1	1		(1)	REC RR, CEF-1	20	1	N	28
29	N	30		(E) WATER HEATER					2250		•	250		1	1		(1)	REC RR, CEF-2	20	1	N	30
31	N		2							2250	•		420	1	2		(1)	REC RISER, ETP	20	1	N	32
33	R	20	1	LANDSCAPING CONTROLLER	(1)				180		•	700						REF-1	20	1	N	34
35	R	20	1	REC – EXTERIOR	(1)					180	•	–						(E) SPACE	20	1		36
37				(E) SPACE					–		•	–						(E) SPACE	20	1		38
39				(E) SPACE						–	•		1200			2		IU-1, CU-1	15		N	40
41				(E) SPACE					–		•	1200						–		2	N	42

PANEL NOTES: (1) PROVIDE CIRCUIT BREAKER AS INDICATED. MATCH EXISTING MANUFACTURER, FRAME AND TYPE.

PANEL NOTICE:
1. EXISTING LOAD CENTER, 42 CIRCUIT, NEMA 1

PHASE TOTALS: ØA: 25180 — ØB: 24750

TOTAL CONNECTED VA	49930
CONNECTED VA (CODE N)	37090
CONNECTED VA (CODE L)	1920
CONNECTED VA (CODE R)	10920
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	49.9
PANEL DEMAND KVA	50.0
PANEL DEMAND AMPS	208.1
HIGH Ø AMPS w/ DEMAND	211.3

EXISTING

PANEL: B — VOLTAGE: 240 / 120 1ø 3W — BUS: 225A — MAINS: L.O — AIC RATING: 10,000 — DATE: 1/22/16 12:22 PM — JOB: 15.0881 — LOCATION: UTILITY ROOM — MOUNTING: FLUSH — CIRCUIT CODE: blank or N: NON-CONTINUOUS, L: LONG-CONTINUOUS, R: DEMANDABLE RECEPTACLES, K: KITCHEN — NO. OF EQUIPMENT: 0

DWT NO	CODE	TRIP	POLE	LOAD DESIGNATION	(NOTE)	M	R	L	CONNECTED VA ØA	ØB	A/B	ØA	ØB	L	R	M	(NOTE)	LOAD DESIGNATION	TRIP	POLE	CODE	DWT NO
1	R	20	1	(E) REC – ROOM 114					980		•	1920						(E) LTS – ROOM 117	20	1	N	2
3	R	20	1	(E) REC – ROOM 115						1160	•		1000					(E) LTS – ROOM 117	20	1	N	4
5	R	20	1	(E) REC – ROOM 116					1160	–	•	1920						(E) LTS – ROOM 116	20	1	N	6
7	R	20	1	(E) REC – ROOM 117						980	•		1920					(E) LTS – ROOM 116	20	1	N	8
9	R	20	1	(E) REC – ROOM 104					980		•	1920						(E) LTS – ROOM 115	20	1	N	10
11	R	20	1	(E) REC – ROOM 102						1800	•		1160					(E) LTS – ROOM 115	20	1	N	12
13	R	20	1	(E) REC – ROOM 103					1980		•	880						(E) LTS – ROOM 114	20	1	N	14
15	R	20	1	(E) REC – ROOM 100						1260	•		180					(E) LTS – ROOM 114	20	1	N	16
17	R	20	1	(E) REC – ROOM 101					1800		•	980						(E) LTS – ROOM 104	20	1	N	18
19	N	20	1	(E) LTS – PLAYROOM						1260	•		1800					(E) LTS – ROOM 104	20	1	N	20
21	N	30	1	(E) LTS – 106, 108, 111, 113					1260		•	1280						(E) LTS – ROOM 102	20	1	N	22
23	N	30	1	(E) LTS – LOBBY						960	•		1400					(E) LTS – ROOM 102	20	1	N	24
25	N	30	1	(E) LTS – CORRIDOR					1280		•	1575						(E) LTS – ROOM 100	20	1	N	26
27	N	30	1	(E) LTS – EXT. BLDG	(1)					1580	•		1285					(E) LTS – ROOM 100	20	1	N	28
29	N	20	1	(E) LTS – EXT. REAR	(1)				1580		•	1475						(E) LTS – ROOM 101	20	1	N	30
31	N	20	1	(E) LTS – PARKING ENTRY	(1)	(2)		4		552	•		1775					(E) LTS – ROOM 101	20	1	N	32
33	N	20	1	(E) TIME CLOCK / PHOTOCELL					800		–		1200					(E) LTS – ROOM 103	20	1	N	34
35	N	20	1	TELEPHONE BACKBOARD	(3)					–	•		1200					(E) LTS – ROOM 103	20	1	N	36
37				(E) SPACE					–		–	–						(E) SPACE				38
39				(E) SPACE						–	–		–					(E) SPACE				40
41				(E) SPACE					–		•	–						(E) SPACE				42

PANEL NOTES:
(1) CIRCUITS CONTROLLED VIA LIGHTING CONTACTOR, TIMECLOCK, PHOTOCELL.
(2) EXISTING CIRCUIT MADE AVAILABLE THRU DEMOLITION.
(3) PROVIDE CIRCUIT BREAKER IN EXISTING SPACE. MATCH EXISTING MANUFACTURER, FRAME AND TYPE.

PANEL NOTICE:
1. EXISTING LOAD CENTER, 42 CIRCUIT, NEMA 1

PHASE TOTALS: ØA: 24970 — ØB: 21272

TOTAL CONNECTED VA	46242
CONNECTED VA (CODE N)	34142
CONNECTED VA (CODE L)	0
CONNECTED VA (CODE R)	12100
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	46.2
PANEL DEMAND KVA	45.2
PANEL DEMAND AMPS	188.3
HIGH Ø AMPS w/ DEMAND	200.2

RECEIVED
APR 06 '16 63325
CITY OF LAS VEGAS

REVIEWED FOR CODE COMPLIANCE
APR 19 2016
BUREAU VERITAS NORTH AMERICA

AS BUILT

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS
⚠1 03/11/2016 CITY COMMENTS

CONSULTANT
JBA Las Vegas
5155 W Patrick Ln
Las Vegas, NV 89118
p 702.362.9200
jba consulting engineers

STAMP
PROFESSIONAL ENGINEER-STATE OF NEVADA
VERNILO A. FERNANDEZ
Exp. 08/30/17
ELECTRICAL
No. 11890
MAR 9 2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN: DJG
FILE:
DATE: 02/08/2016
SCALE: NONE
BID NO: 15.60316.JH
CLV DWG NO: 521-301
HANSEN NO: 60316
SHT NO: E5.01

#15.0881

DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

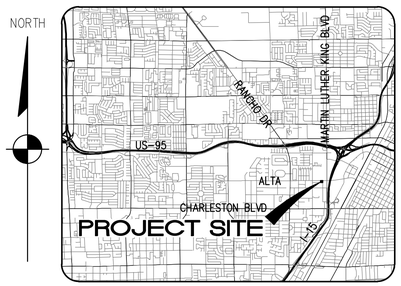
SINGLE LINE DIAGRAM AND SCHEDULES

ALL DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHERE STAMP OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS ANY USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS FURNISHED BY THE CLIENT MAY BE UTILIZED ONLY FOR EXISTING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT N.R.S. 623.300

J:\15.0881\D\Drawings\Alta\01\15.0881-E501.dwg, 3/11/2016 8:15:13 AM, dianna.gamiller, \\fs2\cvcm-1\PDF pro\ANSI_D_(22.00_x_34.00)_hotrod1.1ctt

DEPARTMENT OF PUBLIC WORKS

SITE AND FACILITY IMPROVEMENTS



VICINITY MAP
SCALE: 1" = 600'

Mayor:
CAROLYN G. GOODMAN

City Council:
STEVEN D. ROSS (Mayor Pro-Tem)
LOIS TARKANIAN
RICKI Y. BARLOW
STAVROS S. ANTHONY
BOB COFFIN
BOB BEERS

City Manager:
ELIZABETH N. FRETWELL

Director of Public Works:

DAVID N. BOWERS, P.E., P.T.O.E.

City Engineer:
ALLEN E. PAVELKA, P.E.

SDR-61910 [PRJ-61909] CONDITIONS DATED 1/12/2016

PLANNING

1. APPROVAL OF AND CONFORMANCE TO THE CONDITIONS OF APPROVAL FOR REZONING Z-65-91 SHALL BE REQUIRED, IF APPROVED.
2. THIS APPROVAL SHALL BE VOID TWO YEARS FROM THE DATE OF FINAL APPROVAL, UNLESS EXERCISED PURSUANT TO THE PROVISIONS OF LVMC TITLE 19.16. AN EXTENSION OF TIME MAY BE FILED FOR CONSIDERATION BY THE CITY OF LAS VEGAS.
3. THE PROPOSED FENCE AND CMU PARKING LOT SCREEN WALL DEPICTED ON THE SITE PLAN DATED 11/24/15 SHALL MEET ALL AESTHETIC AND DIMENSIONAL REQUIREMENTS OF THE UNIFIED DEVELOPMENT CODE.
4. THE PROPOSED TRASH ENCLOSURE SHALL HAVE SOLID METAL GATES, A ROOF OR TRELLIS STRUCTURE, AND MEET ALL OTHER REQUIREMENTS OF THE UNIFIED DEVELOPMENT CODE.
5. ALL DEVELOPMENT SHALL BE IN CONFORMANCE WITH THE SITE PLAN, LANDSCAPE PLAN, AND BUILDING ELEVATIONS, DATE STAMPED 11/24/15 EXCEPT AS AMENDED BY CONDITIONS HEREIN.
6. A WAIVER FROM THE LAS VEGAS MEDICAL DISTRICT "TYPE C" STREETSCAPE STANDARDS IS HEREBY APPROVED TO ALLOW A FIVE-FOOT SIDEWALK WITH NO LANDSCAPING AND A FIVE-FOOT INTERIM LANDSCAPE ROCK AREA AT THE BACK OF SIDEWALK ALONG THE NORTH PROPERTY LINE.
7. AN EXCEPTION FROM 19.08.110 IS HEREBY APPROVED TO ALLOW ZERO PARKING LOT LANDSCAPE ISLANDS WHERE ONE IS REQUIRED FOR EVERY SIX SPACES.
8. ALL NECESSARY BUILDING PERMITS SHALL BE OBTAINED AND FINAL INSPECTIONS SHALL BE COMPLETED IN COMPLIANCE WITH TITLE 19 AND ALL CODES AS REQUIRED BY THE DEPARTMENT OF BUILDING AND SAFETY.
9. THESE CONDITIONS OF APPROVAL SHALL BE AFFIXED TO THE COVER SHEET OF ANY PLAN SET SUBMITTED FOR BUILDING PERMIT.
10. 24-INCH BOX PERIMETER AND STREET TREES SHALL BE A MAXIMUM OF 30 FEET ON-CENTER ALONG THE EAST PROPERTY LINE AND 20 FEET ON CENTER ALONG THE NORTH PROPERTY LINE
11. A TECHNICAL LANDSCAPE PLAN, SIGNED AND SEALED BY A REGISTERED ARCHITECT, LANDSCAPE ARCHITECT, RESIDENTIAL DESIGNER OR CIVIL ENGINEER, MUST BE SUBMITTED PRIOR TO OR AT THE SAME TIME APPLICATION IS MADE FOR A BUILDING PERMIT. A PERMANENT UNDERGROUND SPRINKLER SYSTEM IS REQUIRED, AND SHALL BE PERMANENTLY MAINTAINED IN A SATISFACTORY MANNER; THE LANDSCAPE PLAN SHALL INCLUDE IRRIGATION SPECIFICATIONS. INSTALLED LANDSCAPING SHALL NOT IMPEDE VISIBILITY OF ANY TRAFFIC CONTROL DEVICE.
12. A FULLY OPERATIONAL FIRE PROTECTION SYSTEM, INCLUDING FIRE APPARATUS ROADS, FIRE HYDRANTS AND WATER SUPPLY, SHALL BE INSTALLED AND SHALL BE FUNCTIONING PRIOR TO CONSTRUCTION OF ANY COMBUSTIBLE STRUCTURES.
13. ALL CITY CODE REQUIREMENTS AND DESIGN STANDARDS OF ALL CITY DEPARTMENTS MUST BE SATISFIED, EXCEPT AS MODIFIED HEREIN.

PUBLIC WORKS

14. GRANT PEDESTRIAN ACCESS EASEMENTS FOR ALL SIDEWALK AREAS LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY.
15. UNLESS OTHERWISE ALLOWED BY THE CITY ENGINEER, REMOVE ALL SUBSTANDARD PUBLIC STREET IMPROVEMENTS AND UNUSED DRIVEWAY CUTS ADJACENT TO THIS SITE, IF ANY, AND REPLACE WITH NEW IMPROVEMENTS MEETING MEDICAL DISTRICT STANDARDS CONCURRENT WITH DEVELOPMENT OF THIS SITE.
16. CORRECT ALL AMERICAN'S WITH DISABILITIES ACT (ADA) DEFICIENCIES ON THE SIDEWALKS AND SIDEWALK RAMPS ADJACENT TO THIS SITE IN ACCORDANCE WITH CODE REQUIREMENTS OF TITLE 13.56.040 TO THE SATISFACTION OF THE CITY ENGINEER CONCURRENT WITH DEVELOPMENT OF THIS SITE. A "PAN STYLE" DRIVEWAY ON DESERT LANE MAY BE USED AS LONG AS THE SIDEWALK PATH ALONG DESERT LANE COMPLIES WITH AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES.
17. CONSTRUCT A 10-FOOT SIDEWALK ON DESERT LANE TO MEET MEDICAL DISTRICT STANDARDS ADJACENT TO THIS SITE CONCURRENT WITH THE DEVELOPMENT OF THIS SITE. THE REQUIRED 10-FOOT WIDE SIDEWALK ON ALTA DRIVE IS HEREBY DEFERRED FOR THIS PROJECT, AS IT WILL BE CONSTRUCTED WITH A FUTURE ALTA DRIVE PUBLIC IMPROVEMENT PROJECT.
18. CONTACT THE CITY ENGINEER'S OFFICE AT 702-229-6272 TO COORDINATE THE DEVELOPMENT OF THIS PROJECT WITH THE "ALTA DRIVE WIDENING" PROJECT AND ANY OTHER PUBLIC IMPROVEMENT PROJECTS ADJACENT TO THIS SITE. COMPLY WITH THE RECOMMENDATIONS OF THE CITY ENGINEER.
19. LANDSCAPE AND MAINTAIN ALL UNIMPROVED RIGHTS-OF-WAY, IF ANY, ADJACENT TO THIS SITE. ALL LANDSCAPING AND PRIVATE IMPROVEMENTS INSTALLED WITH THIS PROJECT SHALL BE SITUATED AND MAINTAINED SO AS TO NOT CREATE SIGHT VISIBILITY OBSTRUCTIONS FOR VEHICULAR TRAFFIC AT ALL DEVELOPMENT ACCESS DRIVES AND ABUTTING STREET INTERSECTIONS.
20. MEET WITH THE FIRE PROTECTION ENGINEERING SECTION OF THE DEPARTMENT OF FIRE SERVICES TO DISCUSS FIRE REQUIREMENTS FOR THE PROPOSED USE OF THIS FACILITY.
21. MEET WITH THE FLOOD CONTROL SECTION OF THE DEPARTMENT OF PUBLIC WORKS FOR ASSISTANCE WITH ESTABLISHING FINISHED FLOOR ELEVATIONS AND DRAINAGE PATTERNS FOR THIS SITE PRIOR TO SUBMITTAL OF CONSTRUCTION PLANS OR THE ISSUANCE OF ANY BUILDING OR GRADING PERMITS, WHICHEVER MAY OCCUR FIRST. PROVIDE AND IMPROVE ALL DRAINAGE WAYS AS RECOMMENDED.

ALTA DAYCARE UPGRADES

ALTA DRIVE AND DESERT LANE
1617 ALTA DRIVE
LAS VEGAS, NV 89106
APN: 139.33.304.018

Reviewed By:

CITY ENGINEER ALLEN PAVELKA PE, #9029 DATE

APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY, AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIALLY LISTED UNDER DEVIATIONS FROM STANDARDS. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARDS IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, CLARK COUNTY AREA, NEVADA.

LAS VEGAS FIRE AND RESCUE DATE

CHRIS KNIGHT, DIRECTOR DATE
BUILDING AND SAFETY DEPARTMENT
THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE PLANNING DEPARTMENT

SOUTHWEST GAS CORPORATION DATE

CENTRAL TELEPHONE COMPANY DATE
d/b/a CENTURYLINK
THE AFFIXED CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION STANDARD REGULATIONS.

NV ENERGY – DISTRIBUTION DATE
NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
SHEETS: CV-1, G1.01, G1.02, C1.01, C2.01, C2.02, C4.02, C4.03

DATE: PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

THE SIGNATURE ABOVE ACKNOWLEDGES THAT THE UTILITY COMPANY REPRESENTATIVE HAS REVIEWED THE PLANS, AND THAT TO THE BEST OF HIS OR HER KNOWLEDGE THE UTILITY LINES ARE SHOWN IN THE CORRECT LOCATIONS AND ARE THE CORRECT SIZES. WHILE SUCH DATA HAS BEEN COLLECTED WITH REASONABLE CARE, THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE LOCATIONS ARE EXACT. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF OBTAINING THE ACTUAL FIELD LOCATIONS.

THE SIGNATURE ABOVE FURTHER ACKNOWLEDGES THAT THE UTILITY COMPANY DOES NOT ANTICIPATE CONSTRUCTION OR MAINTENANCE IN THE PROJECT AREA FOR FIVE (5) YEARS IN CONFORMANCE WITH THE CLV NO-CUT POLICY.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.
DATE: 6/22/2017

CLV BID NO. 15.60316.JH
H# 60316

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
COVER SHEET

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 3/24/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	CV-1 1 OF 17

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R:\26146.01.01 – Alta Daycare\03-Bid-and-Const\05-Record Dwg\Record Dwg\DWG\01-C-26146-CV.dwg Jun 20, 2017 - 8:11am

ABBREVIATIONS

@	AT	LF	LINEAL FOOT, LINEAR FEET
AB	ABANDONED	LT	LEFT
AC	ASPHALTIC CONCRETE	LVVWD	LAS VEGAS VALLEY WATER DISTRICT
ACP	ASBESTOS CEMENT PIPE	MH	MANHOLE
ACCT	ACCOUNT	MLCP	MULTI-LAYER COMPOSITE PIPE
AEP	AUTHORIZATION TO ENTER PROPERTY	MTR	METER
APN	ASSESSOR'S PARCEL NUMBER	NDOT	NEVADA DEPT OF TRANSPORTATION
APPROX	APPROXIMATE	NTS	NOT TO SCALE
AVAR	AIR VALVE ASSEMBLY	NVE	NV ENERGY
B/C, BC	BACK OF CURB	OHP	OVERHEAD POWER LINE
BCR	BACK OF CURB RADIUS	PB	PULL BOX
BM	BENCHMARK	PC	POINT OF CURVATURE
BOT	BOTTOM	PE	POLYETHYLENE PIPE
BR	BACK OF RAMP	P.I.P.	PROTECT IN PLACE
BW	BOTTOM OF WALL	PP	POWER POLE
C & G	CURB AND GUTTER	PRC	POINT OF REVERSE CURVE
CATV, TV	CABLE TELEVISION	PT	POINT OF TANGENCY
CC	CLARK COUNTY	℄ , PL	PROPERTY LINE
CCPW	CLARK COUNTY PUBLIC WORKS	PVC	POLYVINYL CHLORIDE PIPE
CIPP	CURED-IN-PLACE PIPE	R	RADIUS
℄, CL	CENTERLINE	RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
CLSM	CONTROLLED LOW STRENGTH MATERIAL	RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY
CLV	CITY OF LAS VEGAS		
CMP	CORRUGATED METAL PIPE	R/W, R.O.W.	RIGHT OF WAY
CONC	CONCRETE	SCCP	STEEL CYLINDER CONCRETE PIPE
COND	CONDUCTOR	SD	STORM DRAIN
CPM	CAPITAL PROJECT MANAGEMENT	SF	SQUARE FOOT
CU	COPPER	SP	SPECIAL PROVISIONS
D, DIA	DIAMETER	SS	SANITARY SEWER
DCVA	DOUBLE CHECK VALVE ASSEMBLY	STA	STATION
DG	DECOMPOSED GRANITE	STD	STANDARD
D/W	DRIVEWAY	STL	STREET LIGHT
DWG	DRAWING	SV	SPRINKLER VALVE
ECR	END OF CURB RETURN (AT B/C)	S/W	SIDEWALK
EG	EXISTING GRADE	SWG	SOUTHWEST GAS
ELEC	ELECTRIC	SY	SQUARE YARD
ELEV	ELEVATION	T, TEL	TELEPHONE
ESMT	EASEMENT	TC	TOP OF CURB
EOP, EP	EDGE OF PAVEMENT	TCE	TEMP. CONSTRUCTION EASEMENT
EX.	EXISTING	TEMP	TEMPORARY
FC	FACE OF CURB	TF	TOP OF FOOTER
FD	FOUND	TRANS	TRANSITION
FF	FINISHED FLOOR	TRC	TOP OF RAMP CURB
FG	FINISHED GRADE	TS	TRAFFIC SIGNAL
FH, HYD	FIRE HYDRANT	TW	TOP OF WALL
FT	FOOT, FEET	TYP	TYPICAL
FL	FLOW LINE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
G	GAS		
GB	GRADE BREAK	USD	UNIFORM STANDARD DRAWING
GM	GAS METER	USDCCA	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
GV	GAS VALVE		
GW	GUY WIRE	USS	UNIFORM STD SPECIFICATIONS
HP	HIGH PRESSURE	W	WATER LINE
INT	INTERSECTION	WC	WHEEL CHAIR
IRR	IRRIGATION	WM	WATER METER
IQAC	INTER-AGENCY QUALITY ASSURANCE	WV	WATER VALVE
L	LENGTH	W/	WITH
		Δ	INCLUDED DELTA ANGLE

ALL ABBREVIATIONS, LINE TYPES, AND SYMBOLS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS

LEGEND

- CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- AUTHORIZATION TO ENTER PROPERTY (AEP)
- PATCH / SAWCUT LINE
- CMU WALL
- ALUMINUM FENCE
- TYPE "A" CURB
- MATCHLINE
- EX WATER LINE
- PROPOSED WATER LINE
- EX SANITARY SEWER LINE
- EX STORM DRAIN LINE
- EX GAS LINE
- EX TELEPHONE LINE
- EX FIBER OPTIC
- 4" PERFORATED PIPE
- TRENCH DRAIN

- AREA LIGHT
- BENCHMARK
- ELEC. VAULT/CABINET
- ELECTRIC MANHOLE
- ELECTRIC METER
- FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- FOUND MONUMENT
- GAS METER
- GAS VALVE
- IRR. CONTROLLER
- IRR. VALVE
- LOOP DETECTOR
- SANITARY SEWER MH
- SET MONUMENT
- SIDEWALK RAMP
- PROPOSED SIGN
- STORM DRAIN INLET
- STORM DRAIN MH
- STREET LIGHT
- STREET LIGHT PB
- TELEPHONE MH
- TELEPHONE PB
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL PB
- TV PULLBOX
- UTILITY POLE
- UTILITY POLE GUY WIRE
- UTILITY VAULT
- WATER VAULT/CABINET
- WATER MANHOLE
- WATER METER
- WATER VALVE

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M6.00	DESIGN DETAILS
E0.00	COVER SHEET
E0.01	LIGHTING FIXTURE SCHEDULE
ES1.01	ELECTRICAL SITE PLAN
ED1.01	LIGHTING DEMO PLANS
E1.01	LIGHTING PLAN
E2.01	POWER PLAN
E5.01	SINGLE LINE DIAGRAM AND SCHEDULES

BASIS OF BEARINGS

PARCEL 1 OF PARCEL MAP FILE 120-0081 LYING IN THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN. THE REFERENCE FRAME UTILIZED BEING NAD 83 (2011) EPOCH 2010.0.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 2LV0133C4
DESCRIPTION: RIVET AND PLATE IN TOP OF CURB AT SOUTHWEST CORNER OF ALTA DRIVE AND MARTIN L KING BOULEVARD
ELEVATION: 2046.43 FEET (NAVD88 – 2008 CLV ADJUSTMENT)

FEMA FIRM PANEL INFORMATION

THE PROJECT IS LOCATED IN FLOOD ZONE "X", REFERENCED BY FIRM, FLOOD INSURANCE RATE MAPS, CLARK COUNTY, NEVADA AND INCORPORATED AREAS, PANEL 2170 OF 4090. MAP NUMBER 32003C2170F, DATED NOVEMBER 16, 2011.

(ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.)

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES, IT'S COSTLY.
Call 811 OR 1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES, IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
ABBREVIATIONS, LEGEND AND SHEET INDEX

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 4/14/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	G1.01 2 OF 17

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CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".

2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION, PRIOR TO THE USE ON THE PROJECT.

6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.

8. AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.

9. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE WATER-TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED PER USD 216.

10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USD 235, CASE I. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE.

11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY CITY PROJECT REPRESENTATIVE.

12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY GES, REPORT #20153743E1 DATED SEPTEMBER 30, 2015 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.

13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.

14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED, AND SHALL BE DONE ONLY BY A NEVADA PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS - CLARK COUNTY AREA. A RECORD-OF-SURVEY FOR REPLACEMENT OF PERMANENT SURVEY MONUMENTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO RECORDING. THE RECORD-OF-SURVEY SHALL BE PREPARED IN ACCORDANCE WITH NEVADA REVISED STATUTES 625.350.

15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE AFFECTED UTILITY COMPANY AND THE CITY ENGINEER.

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE CLV BUILDING DEPARTMENT.

17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHTS OF WAY.

18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, SEWER CLEANOUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT AND CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.

21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGHMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAP(S) MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.

23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 02/03/2015

RTC NOTES

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY CLOSURES SHALL BE PWD (PERSONS WITH DISABILITY) ACCESSIBLE BEFORE ANY BUS STOP CAN BE CLOSED. THE CONTRACTOR SHALL NOTIFY CARL SCARBROUGH AT (702) 676-1608 OR ERIC TRAASDAHL AT (702) 676-1633, AT LEAST SEVEN WORKING DAYS IN ADVANCE.

2. THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURES SCHEDULE WITH THE TRAFFIC CONTROL PLAN. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY SPECIFIC DURATIONS AND TIMES OF THE DAY FOR ALL PROPOSED BUS STOP CLOSURES. BUS STOP CLOSURES ARE NOT TO EXCEED TWO CONSECUTIVE STOPS AT ONE TIME, OR MORE THAN 1,000 FEET AT A TIME. PERSONS WITH DISABILITIES SHALL HAVE ACCESS TO BUS STOPS. THE CONTRACTOR SHALL PROVIDE A 100 FOOT LONG BY 10 FEET WIDE GRAVELED TURN OUT AT TEMPORARY BUS STOPS.

REVISED FEBRUARY 14, 2013

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.

3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.

4. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.

5. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL
A. PAVEMENT AREA SUBGRADE	0.1'±	+0.0' TO -0.1'
B. ENGINEERED FILL	0.5'±	+0.1' TO -0.1'

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE. COMPACTION SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEER.

6. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.

7. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.

8. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT- OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

9. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED AS DIRECTED BY THE CITY ENGINEER AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/2010

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.

3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.

5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.

6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.

7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.

8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.

9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.

10. INSTALLATION OF CURVED SEWERS REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED JANUARY 13, 2015

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.

3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.

4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.

5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.

7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.

8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.

10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.

11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING RTC TRANSIT IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.

13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.

14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JULY 13, 2013

LVVWD STANDARD NOTES

LVVWD PROJECT # 124440

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT# IDENTIFIED ABOVE.

2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.

3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.

4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.

5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.

6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.

8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.

9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.

10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.

11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.

12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600

14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL FACILITIES WILL INCLUDE THE PLACEMENT OF ANY APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

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OR
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FAST
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CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

GENERAL NOTES 1

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 3/24/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	G1.02

3 OF 17

DRAWINGS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THE DRAWINGS ARE NOT TO BE USED BY ANY PERSON ENTITY OR CORPORATION FOR ANY PURPOSE OR EXTENSION WITHOUT THE WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. VISUAL CONTACT WITH THESE DRAWINGS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

CITY OF LAS VEGAS FIRE AND RESCUE NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW.
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS.
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL.
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE.
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL.
9. PRIVATE HYDRANTS SHALL BE PAINTED RED.
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS:
    - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS.
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION.
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE.
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE.
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT.
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN.
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS.
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%.
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS.
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS.
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT.
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED.
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA.
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT.
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

REVISED MARCH 1, 2016

CITY OF LAS VEGAS STREET LIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEFO PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHTING BASES ARE INSTALLED.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6331.

REVISED 04/15/2010

STORM WATER POLLUTION STANDARD PLANS NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF HENDERSON AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF HENDERSON AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITH 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORM WATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

DEVIATIONS FROM STANDARDS

1. FIVE FOOT SIDEWALK WITH NO LANDSCAPING AND A FIVE FOOT INTERIM LANDSCAPE ROCK AREA AT THE BACK OF SIDEWALK ALONG THE NORTH OF THE PROPERTY LINE, SEE SDR-61910 CONDITIONS PLANNING ITEM 6 FOR WAIVER.
2. ZERO PARKING LOT LANDSCAPE ISLANDS, SEE SDR 61910 CONDITIONS PLANNING ITEM 7 FOR WAIVER.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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DEPARTMENT OF PUBLIC WORKS

REVISIONS

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Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

GENERAL NOTES 2

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 3/24/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	G1.03

4 OF 17

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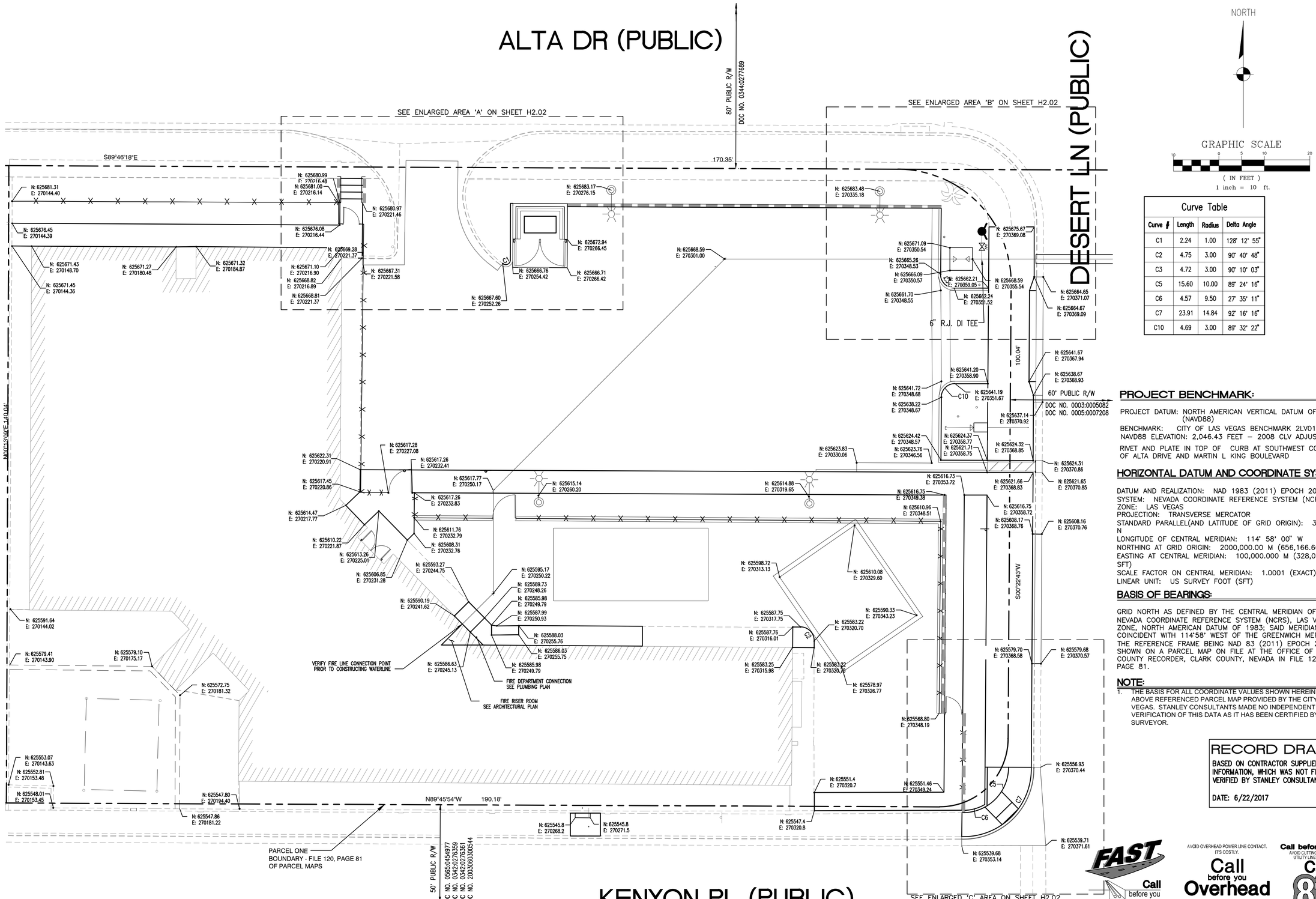

Curve Table			
Curve #	Length	Radius	Delta Angle
C1	2.24	1.00	128° 12' 55"
C2	4.75	3.00	90° 40' 48"
C3	4.72	3.00	90° 10' 03"
C5	15.60	10.00	89° 24' 16"
C6	4.57	9.50	27° 35' 11"
C7	23.91	14.84	92° 16' 16"
C10	4.69	3.00	89° 32' 22"

PROJECT BENCHMARK:

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCHMARK: CITY OF LAS VEGAS BENCHMARK 2LV0133C4
NAVD88 ELEVATION: 2,046.43 FEET – 2008 CLV ADJUSTMENT

RIVET AND PLATE IN TOP OF CURB AT SOUTHWEST CORNER OF ALTA DRIVE AND MARTIN L KING BOULEVARD

HORIZONTAL DATUM AND COORDINATE SYSTEM:

DATUM AND REALIZATION: NAD 1983 (2011) EPOCH 2010.0
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS
PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL(AND LATITUDE OF GRID ORIGIN): 36° 15' 00" N
LONGITUDE OF CENTRAL MERIDIAN: 114° 58' 00" W
NORTHING AT GRID ORIGIN: 2000,000.00 M (656,166.6667 SFT)
EASTING AT CENTRAL MERIDIAN: 100,000.000 M (328,083.3333 SFT)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)
LINEAR UNIT: US SURVEY FOOT (SFT)

BASIS OF BEARINGS:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN. THE REFERENCE FRAME BEING NAD 83 (2011) EPOCH 2010.0 AS SHOWN ON A PARCEL MAP ON FILE AT THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA IN FILE 120 AT PAGE 81.

NOTE:

1. THE BASIS FOR ALL COORDINATE VALUES SHOWN HEREIN IS THE ABOVE REFERENCED PARCEL MAP PROVIDED BY THE CITY OF LAS VEGAS. STANLEY CONSULTANTS MADE NO INDEPENDENT VERIFICATION OF THIS DATA AS IT HAS BEEN CERTIFIED BY THE CITY SURVEYOR.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.
DATE: 6/22/2017

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CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES

CIVIL SITE HORIZONTAL CONTROL 1

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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
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SCALE	1:10
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CLV DWG NO	521.301
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SHT NO	H1.01
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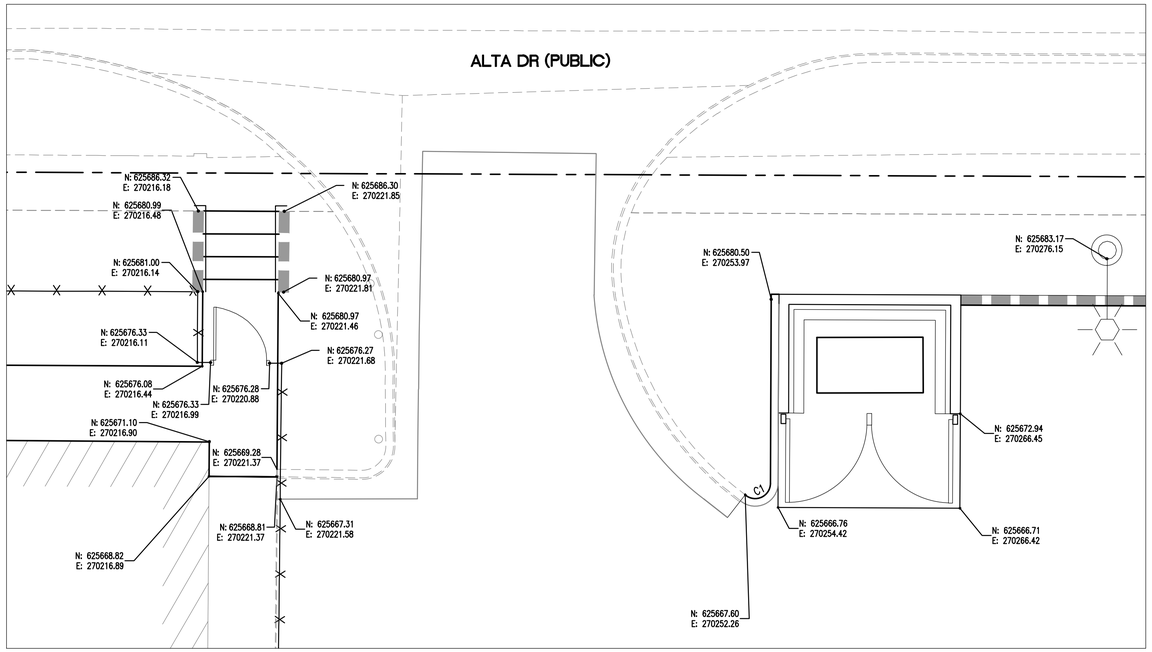
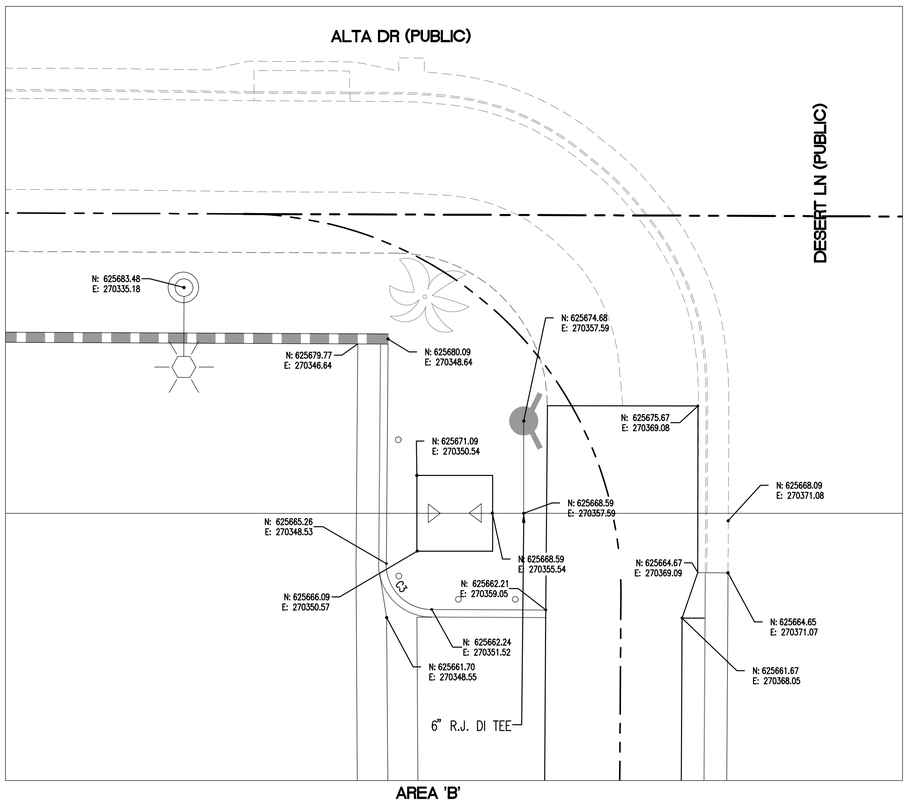
R:\28146.01.01 – ALTA DAYCARE\09-BID-AND-CONSTR\05-RECORD DWG\RECORD DWG\DWG\05-C-28146-SITE-SP.DWG 6/20/2017 8:15 AM



AREA 'A'



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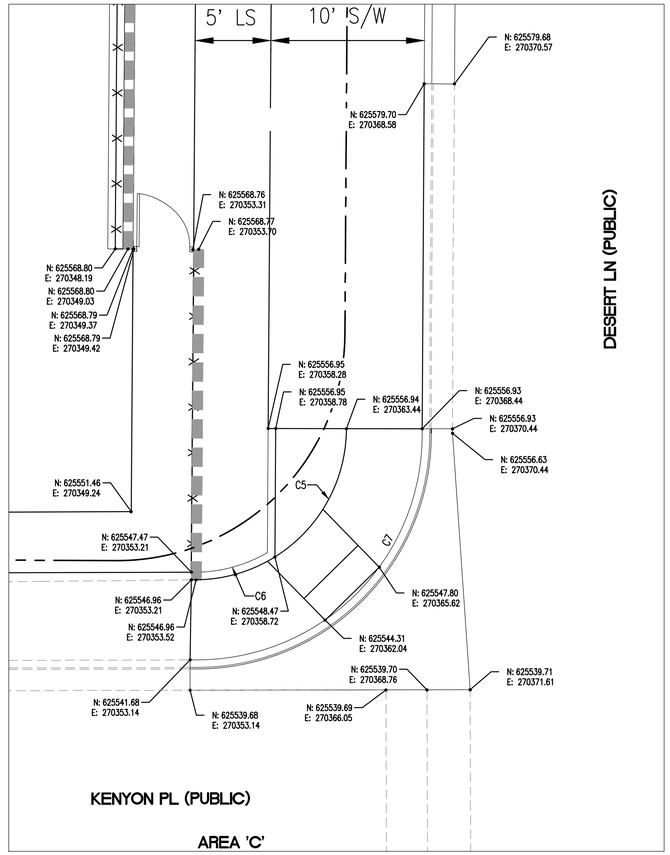
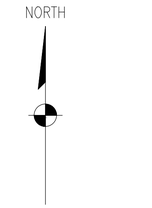


KENYON PL (PUBLIC)

AREA 'C'



GRAPHIC SCALE

5 0 2.5 5 10

(IN FEET)

1 inch = 5 ft.

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RECORD DRAWING

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DATE: 6/22/2017

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PUBLIC WORKS

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

CIVIL SITE HORIZONTAL CONTROL 2

STAMP

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333 NORTH RANCHO DRIVE
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CLV DWG NO	521.301
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SHT NO	H1.02
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LEGEND FOR REMOVAL LIMITS

- DECORATIVE ROCK AND CLEAR AND GRUB
- RUBBER MATTING
- WOOD CHIPS

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT
ENGINEERING SERVICES MANAGER

DATE: PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

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AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR 1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

80' PUBLIC R/W
DOC NO. 0344:0277689

ALTA DR (PUBLIC)

DESERT LN (PUBLIC)

APPROX LOCATION OF EX IRRIGATION SLEEVES PROTECT-IN-PLACE

EXISTING 6' X 75' NEVADA POWER COMPANY AND CENTRAL TELEPHONE COMPANY EASEMENT

N: 625631.5
E: 270367.7
EX 3/4" WM
ACCT #64921
METER #705280

60' PUBLIC R/W
DOC NO. 0003:0005082
DOC NO. 0005:0007208

APN 139-33-304-018
CITY OF LAS VEGAS

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

CONTRACTOR TO VERIFY CONNECTION POINT OF CONDUIT AT BUILDING PRIOR TO REMOVING CONCRETE WALK. SEE LANDSCAPE PLANS FOR CONDUIT & SITE SATELLITE CONTROLLER LOCATION

CONTRACTOR TO VERIFY CONNECTION POINT OF FIRELINE AND NEW 4" SEWER AT BUILDING PRIOR TO CONSTRUCTING 8" WATERLINE AND REMOVING CONCRETE WALK.

EXISTING 5' X 10' LVVWD ESMT

N:625548.0
E:270269.8
EX 2" DCVA

GAS VALVE ADJUSTMENT
SEE GAS VALVE ADJUSTMENT NOTE

EX 1" PE GAS

VERIFY SEWER LATERAL LOCATION FOR BUILDING

N: 625543.9
E: 270271.2
EX 2" WATER METER
ACCT #562222 METER #227922

REMOVE AND REPLACE CONCRETE WALK AS REQUIRED TO INSTALL RPPA PER SHEET C2.02

50' PUBLIC R/W
DOC NO. 0565:0454977
DOC NO. 0342:0276359
DOC NO. 0342:0276361
DOC NO. 2003060300544

KENYON PL (PUBLIC)

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

NORTH

REMOVAL NOTES:

1. REMOVE WROUGHT IRON/ALUMINUM FENCE, AND POST FOOTINGS
2. REMOVE GATE
3. REMOVE CMU WALL AND FOUNDATION
4. REMOVE ASPHALT PAVEMENT
5. REMOVE CONCRETE DRIVEWAY
6. REMOVE TRASH ENCLOSURE
7. REMOVE BOLLARD
8. REMOVE CONCRETE CURB
9. REMOVE CONCRETE FLOOR SLAB
10. REMOVE TREE
11. REMOVE CONCRETE WHEEL STOP
12. REMOVE EXISTING DECORATIVE ROCK
13. REMOVE LIGHT FIXTURE, FOUNDATION, AND CONDUIT
14. PLUG & CAP SANITARY SEWER LATERAL
15. REMOVE CMU WALL WITH WROUGHT IRON AND ALUMINUM FENCING PANELS
16. REMOVE WOOD CHIPS
17. CLEAR AND GRUB
18. REMOVE FABRIC SHADE SHELTER, POSTS, AND FOUNDATION
19. REMOVE CONCRETE WALK/RAMP/PAN DRIVEWAY
20. REMOVE RUBBER MATTING
21. REMOVE L CURB AND GUTTER
22. REMOVE CONCRETE SPANDREL
23. REMOVE/RELOCATE SIGN POST AND PANEL SEE SHEET C2.02
24. REMOVE AND REINSTALL BUILDING POST

PROTECT IN PLACE:

- A TREE
- B LANDSCAPING
- C CONCRETE BOLLARD
- D FABRIC SHADE SHELTER, POSTS, AND FOUNDATION
- E SCREEN/RETAINING WALL
- F DROP INLET
- G CURB AND GUTTER
- H CONCRETE SIDEWALK/FLATWORK
- J ASPHALT PAVEMENT
- K MAILBOX
- L ELECTRICAL BOX (PREVIOUSLY REMOVED BY NVE)
- M STREETLIGHT, BASE COVER, AND FOUNDATION
- N WATER METER
- O CONCRETE CROSS GUTTER AND SPANDRELS
- P UTILITY BOXES, FENCING, AND CMU
- Q BUILDING POSTS
- R PLAYGROUND EQUIPMENT
- S BUILDING SIGN

NOTE:

1. SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING SHEETS FOR BUILDING DEMOLITION ITEMS.
2. SEE CIVIL SITE PLAN FOR WATER UTILITY REMOVAL AND REPLACEMENT ITEMS.
3. REMOVE EXISTING ONSITE IRRIGATION INCLUDING LINES, LATERALS, CONTROLLERS, AND OTHER ASSOCIATED ITEMS.
4. REPAIR STRUCTURES DAMAGED DURING REMOVAL OPERATIONS AND DESIGNATED TO REMAIN IN PLACE IN ACCORDANCE WITH SPECIFICATIONS.

GAS VALVE ADJUSTMENT:

1. CONTRACTOR TO VERIFY DEPTH TO EXISTING GAS LINE PRIOR TO CONSTRUCTION OF RETAINING WALL AND SHADE STRUCTURE INSTALLATION. REPORT ANY DISCREPANCY OR CONFLICT TO ENGINEER.
2. A MINIMUM OF TEN WORKING DAYS PRIOR TO PARKING LOT REMOVAL, CONTRACTOR SHALL CONTACT SOUTHWEST GAS (BILL CRAWFORD (702) 994-4198) TO LOWER THE GAS VALVE.
3. AFTER IMPROVEMENTS SURROUNDING THE GAS VALVE ARE CONSTRUCTED, CONTRACTOR SHALL CONTACT SOUTHWEST GAS TO RAISE THE VALVE TO FINISHED GRADE. CONTRACTOR SHALL ALLOW SOUTHWEST GAS A MINIMUM OF 10 DAYS TO PERFORM THE WORK.

SALVAGE OF CONCRETE WHEEL STOPS:

1. CONTRACTOR MAY SALVAGE CONCRETE WHEEL STOPS FOR USE ELSEWHERE ON THIS SITE PROVIDED IT MEETS THE CRITERIA SET FORTH IN THE PLANS, THE SPECIFICATIONS, AND IS APPROVED BY THE CONSTRUCTION MANAGER.
2. CONCRETE WHEEL STOPS MUST BE A COMPLETE PIECE, WITHOUT ANY NOTICEABLE FLAWS SUCH AS CHIPS, FADING, GRAFFITI, OR ANY OTHER COSMETIC FLAW.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE AND SAFE GUARDING OF THE CONCRETE WHEEL STOPS UNTIL THEY ARE READY TO BE INSTALLED.
4. ALL CONCRETE WHEEL STOPS NOT SALVAGED MUST BE DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS.

CITY OF LAS VEGAS NEVADA

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES

REMOVAL PLAN

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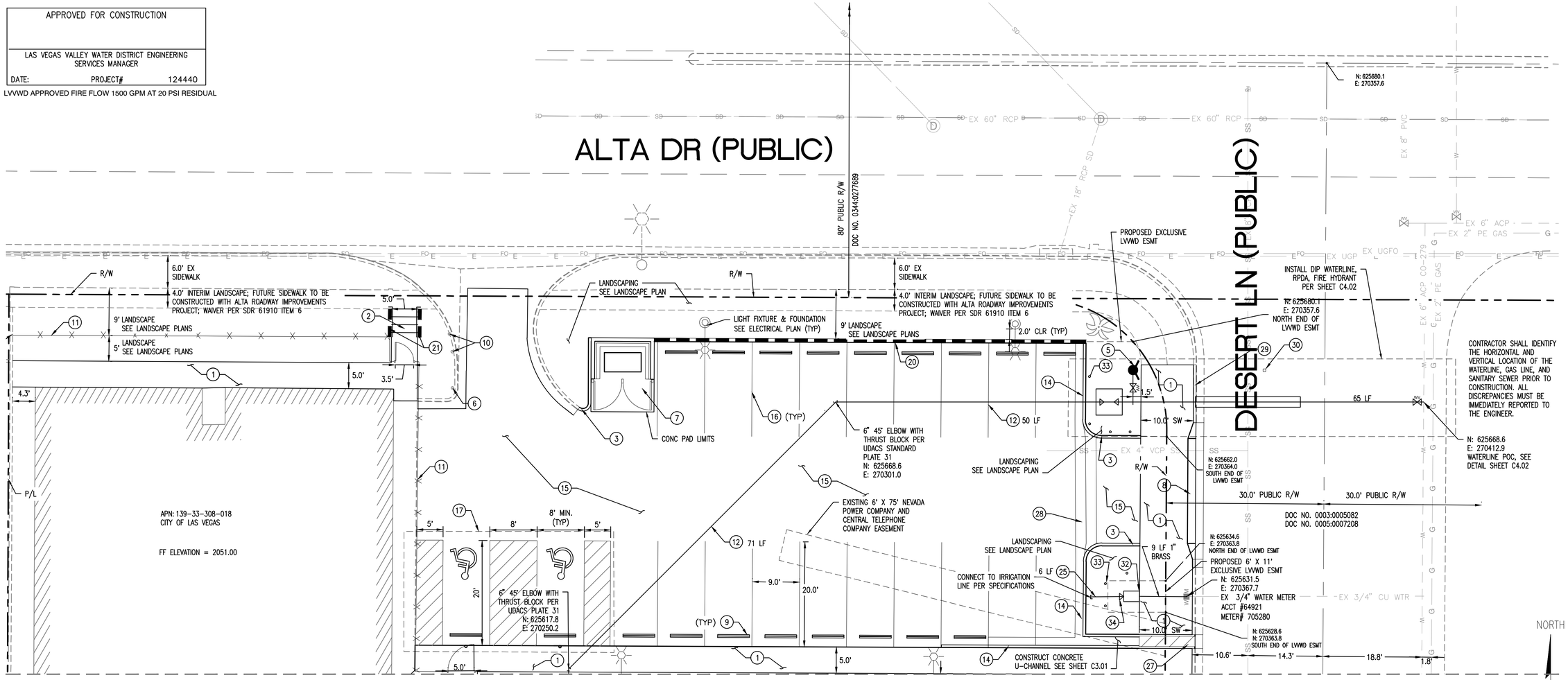
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL



CONSTRUCTION NOTES:

1. CONSTRUCT CONCRETE SIDEWALK PER USDCCA 234
2. CONSTRUCT CONCRETE STEPS W/HANDRAILS PER DETAIL 1 SHEET C4.04
3. CONSTRUCT TYPE "A" CURB PER USDCCA 219
4. CONSTRUCT 12" MOW CURB PER DETAIL 2 SHEET C4.03
5. FIRE HYDRANT PER UDACS PLATE 41 SEE NOTES THIS SHEET & C4.02
6. INSTALL CONC BOLLARD AND PAINT YELLOW PER UDACS PLATE 75
7. CONSTRUCT CONC TRASH ENCLOSURE PER DETAIL SHEET C4.06
8. CONSTRUCT DRIVEWAY PER USDCCA STD DWG NO 224
9. INSTALL CONCRETE WHEEL STOP PER DETAIL 6 SHEET C4.05
10. SANDBLAST, CLEAN AND PAINT EX CONC BOLLARDS YELLOW PER UDACS PLATE 75
11. 5' HIGH ALUMINUM FENCE WITH GATES PER DETAIL 2 SHEET C4.04
12. INSTALL 6" PVC WATER LINE, AWWA C900 DR-18
13. RELOCATE EXISTING SIGN PANEL AND POST
14. CONSTRUCT "L" CURB AND GUTTER PER USDCCA 216
15. AC PAVEMENT PER DETAIL 1 SHEET C4.03
16. 4" WHITE STRIPING FOR STANDARD PARKING STALLS
17. ACCESSIBLE PARKING SEE DETAILS SHEET C4.05
18. CONSTRUCT CONCRETE SPANDREL PER USDCCA 228
19. CONSTRUCT SIDEWALK RAMP CASE I PER USDCCA 235 (MODIFIED: SEE C3.01 FOR GRADES)
20. CONSTRUCT 3' HIGH CMU SCREEN WALL PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100-1
21. CONSTRUCT RETAINING WALL PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100-2
22. NOT USED
23. REMOVE 2" DCVA AND CONNECT EX LINE TO NEW WATERLINE, SEE WATERLINE NOTE 3
24. INSTALL 2" FEBCO LF 825 YA RPPA, W/ ASSEMBLY W/ 2" BRASS CONNECTION PER UDACS PLATE 8
25. INSTALL 1.5" PVC IRRIGATION WATERLINE
26. SEE PLUMBING PLANS FOR CONTINUATION
27. CONSTRUCT SIDEWALK UNDERDRAIN PER USDCCA 236
28. CONSTRUCT 4' VALLEY GUTTER PER DETAIL 6 SHEET C4.03
29. PAINT CURB RED, SEE FIRE HYDRANT NOTE 2 THIS SHEET
30. BLUE COVERED REFLECTIVE MARKER, SEE FIRE HYDRANT NOTE 3 THIS SHEET
31. ADDITIVE/ALTERNATIVE PAINT EXISTING CMU WALL TO MATCH NEW SPLIT FACE WALL
32. INSTALL 1" FEBCO LF 825 YA RPPA WITH ASSEMBLY AND CONNECT TO EX 3/4" METER PER UDACS PLATE 4 AND PLATE 8 W/ 1" BRASS CONNECTION
33. INSTALL VEHICULAR PROTECTION BOLLARDS PER UDACS PLATE 75
34. INSTALL 1.5"X1" REDUCER
35. ATTACH KNOX BOX TO GATE WITH TWO U-BOLDS OR PER MANUFACTURERS RECOMMENDATIONS; SECURE BOLTS ON INSIDE OF KNOX BOX.

RECORD DRAWING
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DATE: 6/22/2017

MATCHLINE SEE SHEET C2.02

WATERLINE NOTES:

1. PIPE SMALLER THAN 4" DIAMETER SHALL BE BRASS OR NSF APPROVED SCHEDULE 40 PVC, AS SHOWN ON PLANS.
2. PIPE 4" AND LARGER DIAMETER SHALL BE DIP OR PVC AWWA C900 DR-18, AS SHOWN ON PLANS.
3. ABANDONMENT OF EXISTING 2" DCVA THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED BACKFLOW AS FOLLOWS: THE EXISTING DCVA SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING ENCLOSURE AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE SIDEWALK, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING BACKFLOW AND ENCLOSURE.
4. REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (1) 4" (SHEET C2.01) THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 56, DETAIL 1 SHEET C4.02, AND DETAIL 7 SHEET C4.03. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
5. REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" (SHEET C2.01) (1) 2" (SHEET C2.02) APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
6. SINGLE SERVICE UPGRADE SINGLE WATER SOURCED PROJECTS INVOLVING A METER, VAULT, OR WATER SERVICE UPGRADE WILL REQUIRE THE WATER TO BE SHUT OFF FOR A SUFFICIENT LENGTH OF TIME TO ACCOMPLISH THE WORK PER THE PLANS. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE FOR A DISTRICT APPROVED TEMPORARY BY-PASS TO SUPPLY THE PROJECT WHILE THE WORK IS BEING COMPLETED.
7. EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS TO THE VAULTS(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.
8. WARNING FIRE LINE (NON=POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS: TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.
9. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
10. CONTRACTOR SHALL PROVIDE SURVEY STAKING FOR ALL LVVWD FACILITIES.
11. CONTRACTOR SHALL COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS.

FIRE HYDRANT NOTES

1. FIRE HYDRANT SHALL BE PAINTED WITH A SUITABLE PRIME COAT AND NOT LESS THAN 2 COATS OF EXTERIOR INDUSTRIAL GRADE ENAMEL, SAFETY YELLOW IN COLOR.
2. THE ADJACENT CURB ON DESERT LANE, FROM THE EXISTING CURB RETURN TO THE BEGINNING OF THE DRIVEWAY, SHALL BE PAINTED WITH A COAT OF EXTERIOR INDUSTRIAL GRADE ENAMEL, SAFETY RED IN COLOR.
3. THE HYDRANT LOCATION SHALL BE IDENTIFIED BY A BLUE REFLECTIVE MARKER IN THE CENTER OF WEST DRIVE LANE DESERT LANE.
4. AFTER INSTALLATION, THE FIRE HYDRANT SHALL BE OPENED FULLY AND WATER FLOWED UNTIL ALL FOREIGN MATERIAL HAS CLEARED. AFTER OPERATION, DRY BARREL AND WALL HYDRANTS SHALL BE OBSERVED FOR PROPER DRAINAGE FROM THE BARREL. FULL DRAINAGE SHALL TAKE NO LONGER THAN 60 MINUTES.
5. FIRE HYDRANT SHALL BE 3 FEET CLEAR OF RPDA PAD.

SIGN STRIPING, AND PAVEMENT MARKERS NOTES

1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. TRAFFIC SIGNAGE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 627.
3. TRAFFIC STRIPING, PAVEMENT MARKERS, AND CURB MARKINGS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 628.
4. PAVEMENT MARKERS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 633.

CMU WALL NOTES:

1. CMU WALL TO BE SPLIT FACE BLOCKS WITH CAP PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100.
2. COLOR TO BE LIGHT BROWN. SELECT FROM STANDARD STOCK COLORS. SUBMIT COLOR SAMPLE TO OWNER'S REPRESENTATIVE FOR APPROVAL.

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

DISCLAIMER NOTE

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FOR ALL DRY UTILITY CROSSINGS

1. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
2. MAINTAIN MINIMUM 3' PARALLEL SEPARATION.
3. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

FAST
Call before you UnderGround 1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY.
Call before you Overhead 1-702-227-2929
NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811

CITY OF LAS VEGAS NEVADA

REVISIONS

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Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

CIVIL SITE PLAN 1

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 3/24/2016

OWNER: CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	1:10
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C2.01
	8 OF 17

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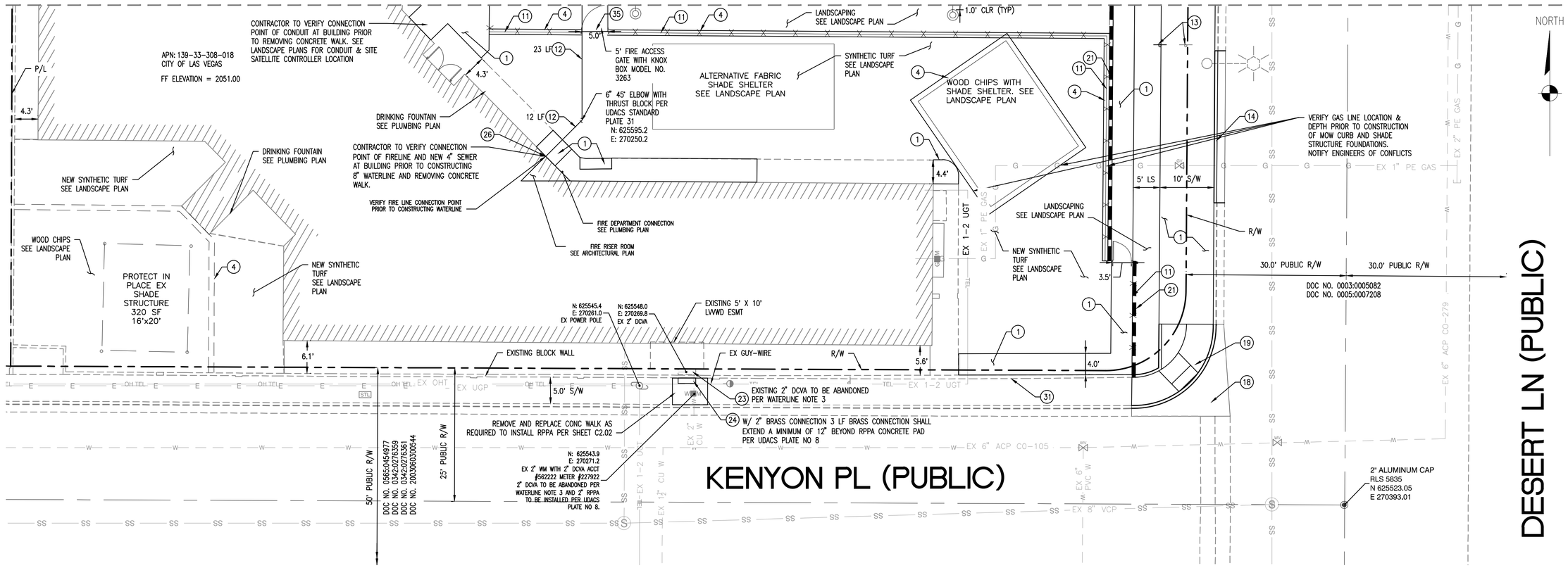
MATCHLINE SEE SHEET C2.01



CONSTRUCTION NOTES:

1. CONSTRUCT CONCRETE SIDEWALK PER USDCCA 234
2. CONSTRUCT CONCRETE STEPS W/HANDRAILS PER DETAIL 1 SHEET C4.04
3. CONSTRUCT TYPE "A" CURB PER USDCCA 219
4. CONSTRUCT 12" MOW CURB PER DETAIL 2 SHEET C4.03
5. FIRE HYDRANT PER UDACS PLATE 41 SEE NOTES THIS SHEET & C4.02
6. INSTALL CONC BOLLARD AND PAINT YELLOW PER UDACS PLATE 75
7. CONSTRUCT CONC TRASH ENCLOSURE PER DETAIL SHEET C4.06
8. CONSTRUCT DRIVEWAY PER USDCCA STD DWG NO 224
9. INSTALL CONCRETE WHEEL STOP PER DETAIL 6 SHEET C4.05
10. SANDBLAST, CLEAN AND PAINT EX CONC BOLLARDS YELLOW PER UDACS PLATE 75
11. 5' HIGH ALUMINUM FENCE WITH GATES PER DETAIL 2 SHEET C4.04
12. INSTALL 6" PVC WATER LINE, AWWA C900 DR-18
13. RELOCATE EXISTING SIGN PANEL AND POST
14. CONSTRUCT "L" CURB AND GUTTER PER USDCCA 216
15. AC PAVEMENT PER DETAIL 1 SHEET C4.03
16. 4" WHITE STRIPING FOR STANDARD PARKING STALLS
17. ACCESSIBLE PARKING SEE DETAILS SHEET C4.05
18. CONSTRUCT CONCRETE SPANDREL PER USDCCA 228
19. CONSTRUCT SIDEWALK RAMP CASE I PER USDCCA 235 (MODIFIED: SEE C3.01 FOR GRADES)
20. CONSTRUCT 3' HIGH CMU SCREEN WALL PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100-1
21. CONSTRUCT RETAINING WALL PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100-2
22. NOT USED
23. REMOVE 2" DCVA AND CONNECT EX LINE TO NEW WATERLINE, SEE WATERLINE NOTE 3
24. INSTALL 2" FEBCO LF 825 YA RPPA, W/ ASSEMBLY W/ 2" BRASS CONNECTION PER UDACS PLATE 8
25. INSTALL 1.5" PVC IRRIGATION WATERLINE
26. SEE PLUMBING PLANS FOR CONTINUATION
27. CONSTRUCT SIDEWALK UNDERDRAIN PER USDCCA 236
28. CONSTRUCT 4' VALLEY GUTTER PER DETAIL 6 SHEET C4.03
29. PAINT CURB RED, SEE FIRE HYDRANT NOTE 2 THIS SHEET
30. BLUE COVERED REFLECTIVE MARKER, SEE FIRE HYDRANT NOTE 3 THIS SHEET
31. ADDITIVE/ALTERNATIVE PAINT EXISTING CMU WALL TO MATCH NEW SPLIT FACE WALL
32. INSTALL 1" FEBCO LF 825 YA RPPA WITH ASSEMBLY AND CONNECT TO EX 3" METER PER UDACS PLATE 4 AND PLATE 8 W/ 1" BRASS CONNECTION
33. INSTALL VEHICULAR PROTECTION BOLLARDS PER UDACS PLATE 75
34. INSTALL 1.5"X1" REDUCER
35. ATTACH KNOX BOX TO GATE WITH TWO U-BOLDS OR PER MANUFACTURERS RECOMMENDATIONS; SECURE BOLTS ON INSIDE OF KNOX BOX.

WATERLINE NOTES:

1. PIPE SMALLER THAN 4" DIAMETER SHALL BE BRASS OR NSF APPROVED SCHEDULE 40 PVC, AS SHOWN ON PLANS.
2. PIPE 4" AND LARGER DIAMETER SHALL BE DIP OR PVC AWWA C900 DR-18, AS SHOWN ON PLANS.
3. ABANDONMENT OF EXISTING 2" DCVA THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED BACKFLOW AS FOLLOWS: THE EXISTING DCVA SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING ENCLOSURE AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE SIDEWALK, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING BACKFLOW AND ENCLOSURE.
4. REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (1) 4" (SHEET C2.01) THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 56, DETAIL 1 SHEET C4.02, AND DETAIL 7 SHEET C4.03. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
5. REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" (SHEET C2.01) (1) 2" (SHEET C2.02) APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
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   TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.
9. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
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11. CONTRACTOR SHALL COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS.

SIGN STRIPING, AND PAVEMENT MARKERS GENERAL NOTES

1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. TRAFFIC SIGNAGE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 627.
3. TRAFFIC STRIPING, PAVEMENT MARKERS, AND CURB MARKINGS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 628.
4. PAVEMENT MARKERS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 633.

CMU WALL NOTES:

1. CMU WALL TO BE SPLIT FACE BLOCKS WITH CAP PER SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS FOR MASONRY FENCES B-100.
2. COLOR TO BE LIGHT BROWN. SELECT FROM STANDARD STOCK COLORS. SUBMIT COLOR SAMPLE TO OWNER'S REPRESENTATIVE FOR APPROVAL.
3. INCLUDE COST IN BID PRICE FOR "EXTERIOR PAINT" ADDITIVE ALTERNATIVE

GRAPHIC SCALE

10 0 5 10 20

(IN FEET)

1 inch = 10 ft.

DISCLAIMER NOTE

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FOR ALL DRY UTILITY CROSSINGS

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2. MAINTAIN MINIMUM 3' PARALLEL SEPARATION.
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RECORD DRAWING

BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY.
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1-702-227-2929
NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811

CITY OF LAS VEGAS NEVADA

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

CIVIL SITE PLAN 2

DEPARTMENT OF PUBLIC WORKS

STAMP

THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 3/24/2016

OWNER: CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	1:10
BID NO	15.60316.JH
LVLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C2.02

9 OF 17

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NORTH

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

NOTE:
1. CONTRACTOR TO MATCH EXISTING GRADES (EX) UNLESS OTHERWISE SPECIFIED ON PLANS
2. TRASH ENCLOSURE INTERIOR GRADING PER SHEET C4.01
3. CONTRACTOR TO VERIFY FINISHED GRADES & TOP OF FOOTER PRIOR TO CONSTRUCTING CMU WALLS
4. NON-WOVEN GEOTEXTILE FABRIC TO HAVE A MAXIMUM AVERAGE APPARENT OPENING SIZE LESS THAN 0.43 MM (US SIEVE #40) BY ASTM D4751 AND A MINIMUM GRAB TENSILE STRENGTH OF 120 POUNDS OR MORE BY ASTM D4632.

CONSTRUCT PILASTER AT END OF EXISTING RETAINING/SCREEN WALL.

EX FINISHED FLOOR
ELEV = 2051.00

80' PUBLIC R/W
DOC NO. 0344:0277689

50' PUBLIC R/W
DOC NO. 0565:0454977
DOC NO. 0342:0276359
DOC NO. 0342:0276355
DOC NO. 20030620300544

60' PUBLIC R/W
DOC NO. 0003:0005082
DOC NO. 0005:0007208

ALTERNATIVE 20'x25' SHADE STRUCTURE SUPPORTS 100 KIDS @ 5 SF/CHILD

20'x24' SHADE STRUCTURE SUPPORTS 96 KIDS @ 5 SF/CHILD

EX 320 SF SHADE STRUCTURE SUPPORTS 64 KIDS @ 5 SF/CHILD

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.
DATE: 6/22/2017

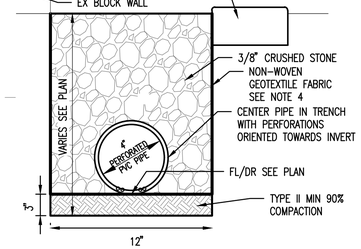
OUTSIDE AREA:
5569 SF SUPPORTS
148 KIDS @ 37.5 SF / CHILD

CONSTRUCT PILASTER AT END OF EXISTING RETAINING/SCREEN WALL. CONNECT TO NEW RETAINING WALL

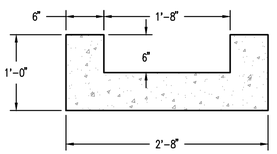
EX WALL DRAIN OPENINGS (2049.41) FL

EX WALL DRAIN OPENING 1.3' W X 0.7' H (2049.31) FL

MOW CURB SEE DETAIL 2 SHEET C4.03



FRENCH DRAIN (DR)
SCALE: NOT TO SCALE



U-CHANNEL DETAIL
N.T.S.

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 or 1-800-227-2600

FAST
Call before you UnderGround
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FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
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CITY OF LAS VEGAS NEVADA

REVISIONS

CONSULTANT
Stanley Consultants INC
5820 SOUTH EASTERN AVENUE, SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396
FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
GRADING PLAN

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 3/28/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C3.01
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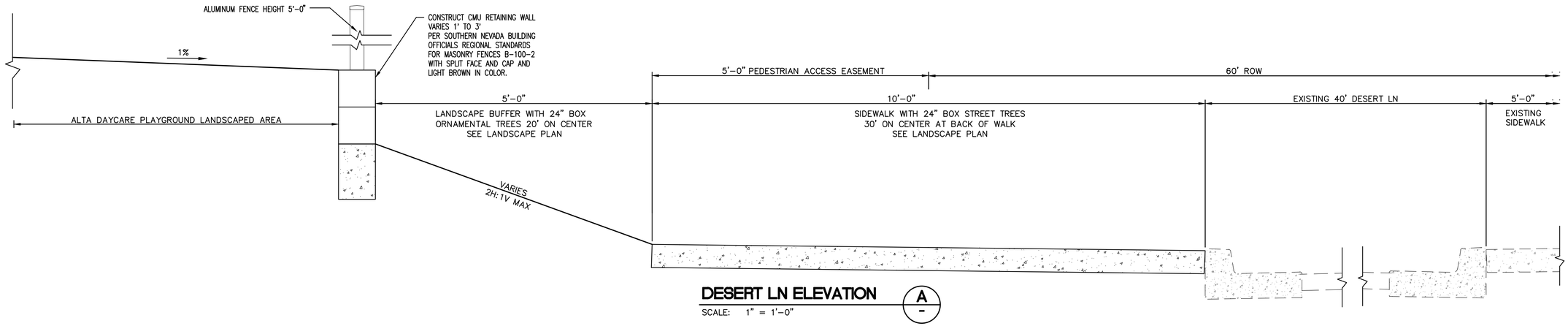
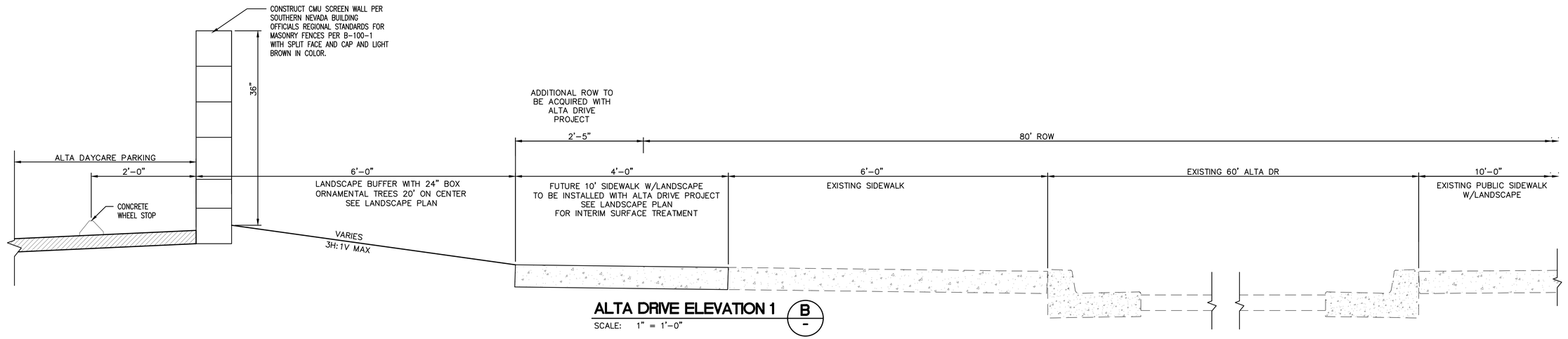
RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

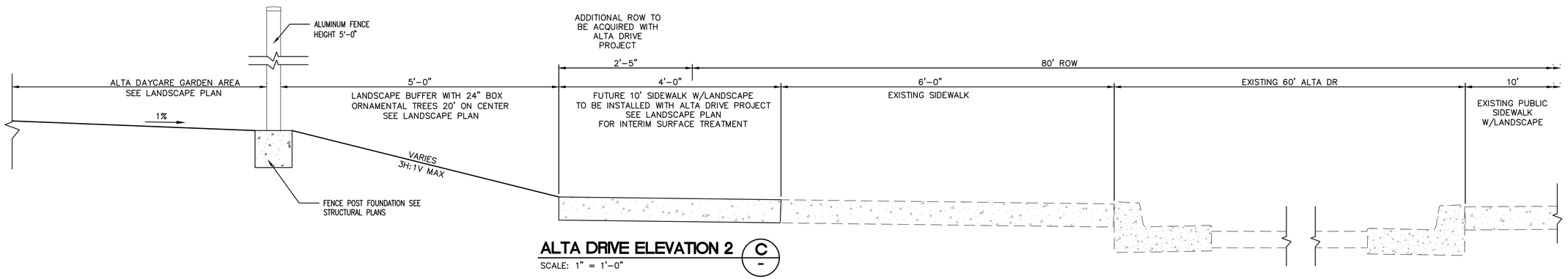
DATE: 6/22/2017



DESERT LN ELEVATION (A)
SCALE: 1" = 1'-0"



ALTA DRIVE ELEVATION 1 (B)
SCALE: 1" = 1'-0"



ALTA DRIVE ELEVATION 2 (C)
SCALE: 1" = 1'-0"

CITY OF LAS VEGAS NEVADA

REVISIONS

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(702) 369-9396
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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

SECTIONS AND DETAILS 1

STAMP

THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 3/24/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	N/A
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C4.01

11 OF 17

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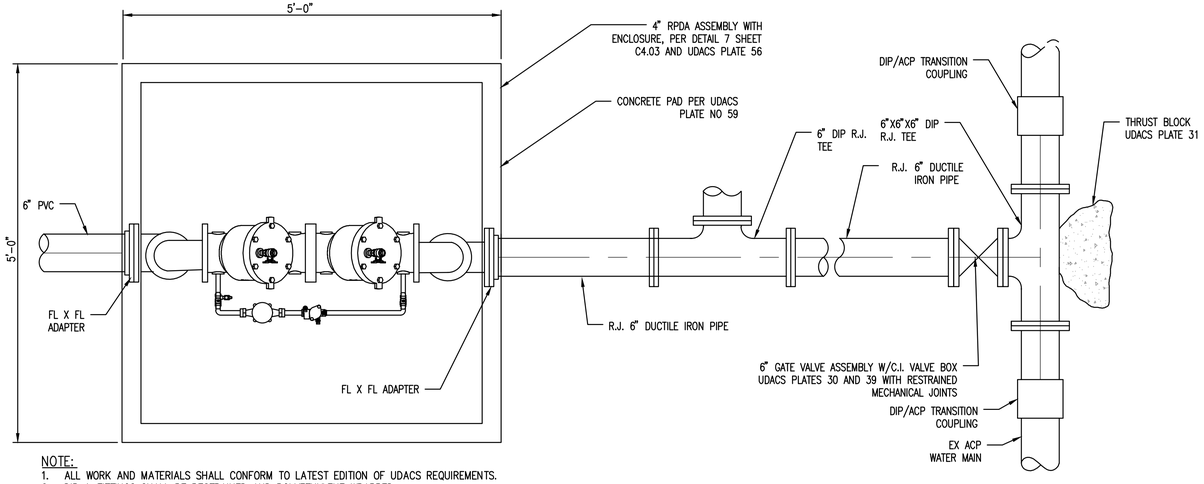


NOTE:
1. ALL WORK AND MATERIALS SHALL CONFORM TO LATEST EDITION OF UDACS REQUIREMENTS.
2. DIP & FITTINGS SHALL BE RESTRAINED AND POLYETHYLENE WRAPPED
3. DISINFECTION SHALL BE PER UDACS SECTION 2.16, SECTION 3.27.02, AND PLATE NO 33 & AWWA C651-14 STANDARDS
4. FOR STEEL CASING SIZE (PER UDACS PLATE NO 22 AND 23) AND LOCATION SEE PLAN VIEW AND PROFILE THIS SHEET
5. TRENCH SECTIONS SHALL CONFORM TO UDACS PLATE 17, 42-INCHES MINIMUM COVER
6. 4" SETTER NOT REQUIRED
7. FLANGE BOLTS SHALL BE STAINLESS STEEL

FIRE LINE CONNECTION DETAIL AND RPDA ASSEMBLY

1 / -

SCALE: NOT TO SCALE

WATERLINE NOTES:

1. PIPE SMALLER THAN 4" DIAMETER SHALL BE BRASS OR NSF APPROVED SCHEDULE 40 PVC, AS SHOWN ON PLANS.
2. PIPE 4" AND LARGER DIAMETER SHALL BE DIP OR PVC AWWA C900 DR-18, AS SHOWN ON PLANS.
3. ABANDONMENT OF EXISTING 2" DCVA THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED BACKFLOW AS FOLLOWS: THE EXISTING DCVA SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING ENCLOSURE AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE SIDEWALK, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING BACKFLOW AND ENCLOSURE.
4. REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (1) 4" (SHEET C2.01) THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 56, DETAIL 1 SHEET C4.02, AND DETAIL 7 SHEET C4.03. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
5. REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1" (SHEET C2.01) (1) 2" (SHEET C2.02) APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
6. SINGLE SERVICE UPGRADE SINGLE WATER SOURCED PROJECTS INVOLVING A METER, VAULT, OR WATER SERVICE UPGRADE WILL REQUIRE THE WATER TO BE SHUT OFF FOR A SUFFICIENT LENGTH OF TIME TO ACCOMPLISH THE WORK PER THE PLANS. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE FOR A DISTRICT APPROVED TEMPORARY BY-PASS TO SUPPLY THE PROJECT WHILE THE WORK IS BEING COMPLETED.
7. EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW LVVWD DIRECT ACCESS TO THE VAULTS(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.
8. WARNING FIRE LINE (NON=POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS: TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.
9. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
10. CONTRACTOR SHALL PROVIDE SURVEY STAKING FOR ALL LVVWD FACILITIES.
11. CONTRACTOR SHALL COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS.
12. INSTALL WATERLINE IN STEEL CASING PER UDACS PLATE NO. 22 AND 23. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF THE PIPE, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED.
13. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH FINE SAND OR CONTROLLED LOW STRENGTH MATERIAL (CLSM 50 PSI - 75 PSI), SEE UDACS PLATES 16, 17, 18, AND 19 FOR BEDDING REQUIREMENTS. ESN. 038A REVISED 01/05/15
14. THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED, THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
15. DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

LVVWD NOTES AND QUANTITIES:

PRESSURE ZONE 2168

STATIC PRESSURE NOTE:
THIS PROPERTY DOES NOT HAVE PRESSURE IN EXCESS OF 80 PSI.
PRESSURE REDUCING VALVES ARE NOT REQUIRED.

DEMANDS
DOMESTIC DEMAND MAXIMUM DAY AT DAYCARE 49 GPM
DOMESTIC DEMAND PEAK HOUR AT DAYCARE 75 GPM

LVVWD QUANTITIES:

59	LF	6"	R.J. DIP WATERLINE
6	LF	6"	DIP
12	LF	2"	BRASS PER UDACS PLATE NO 8
21	LF	16"X ¼"	STEEL CASE PIPING
2	EA		DIP/AC TRANSITION COUPLING
2	EA	6"X6"X6"	DIP R.J. TEE
3	EA		THRUST BLOCKS
2	EA		ANCHOR BLOCKS
2	EA	6"X4"	FL X FL DIP REDUCER
2	EA		RESTRAINED FLANGE COUPLING ADAPTER OR R.J. 90° BEND
1	EA	6"	GATE VALVE ASSEMBLY W/ RESTRAINED JOINTS
2	EA		R.J. DIP 45° BEND
1	EA	4"	RPDA ASSEMBLY (UDACS PLATE NO 56)
1	EA	2"	RPPA ASSEMBLY
1	EA	1"	RPPA ASSEMBLY
1	EA		FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE (UDACS PLATE NO 41)

CITY OF LAS VEGAS QUANTITIES:

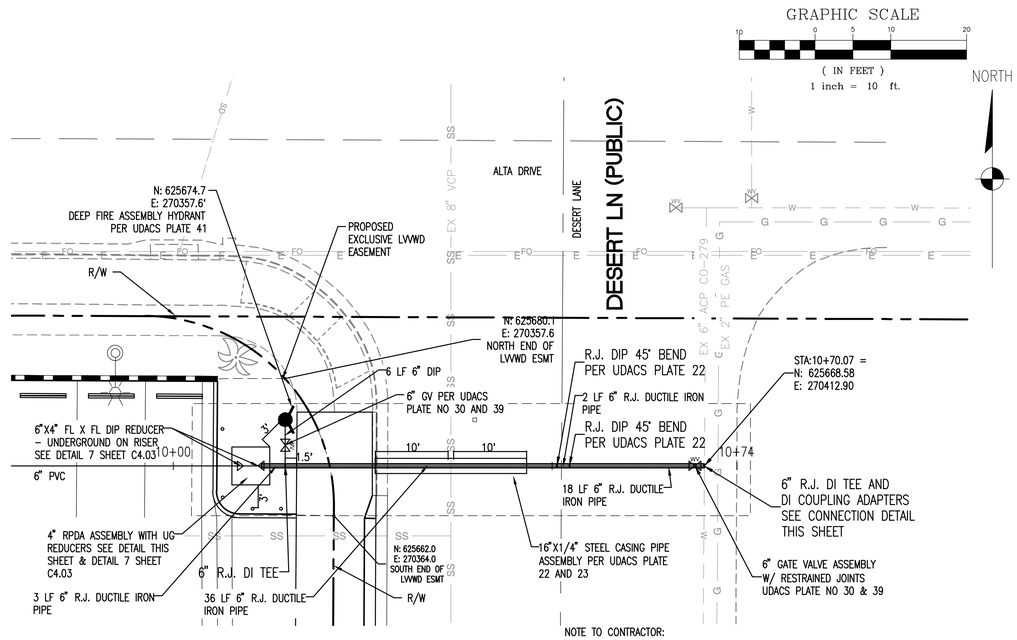
156	LF	6"	PVC WATERLINE
6	LF	1.5"	PVC WATERLINE
1	EA	1.5"X1"	REDUCER
3	EA	6"	45° BEND WITH THRUST BLOCKS

NOTE TO CONTRACTOR:
QUANTITIES LISTED HERE ARE FOR USE BY LVVWD. CONTRACTOR SHALL MAKE INDEPENDENT ESTIMATE OF QUANTITIES FOR BASIS OF PAYMENT. NO ADDITIONAL COMPENSATION FOR DIFFERENCES IN QUANTITIES WILL BE MADE.

FIRE FLOW CALCULATIONS

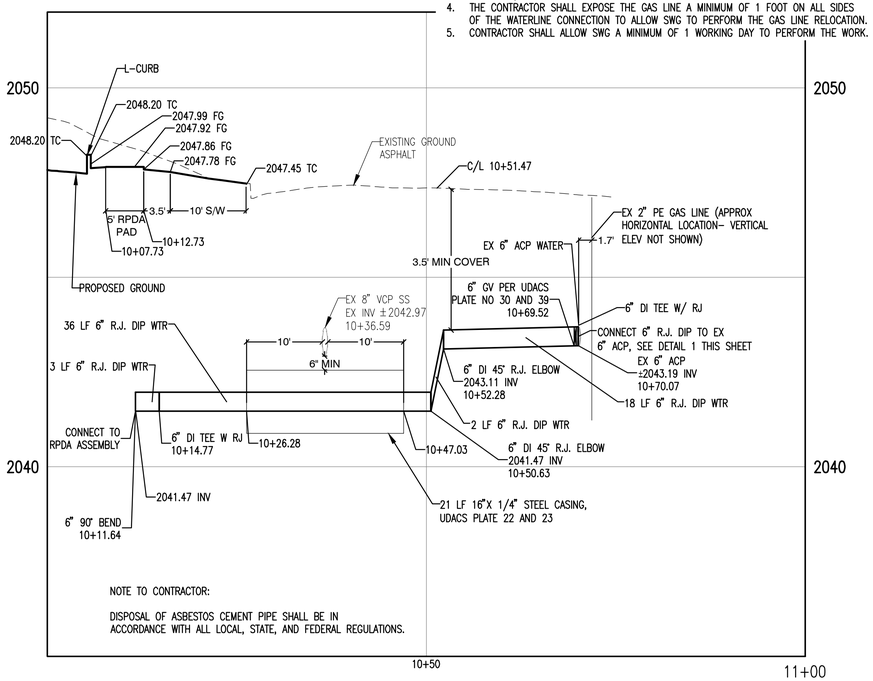
FIRE FLOW REQUIREMENT IS 1500 GPM AT 20 PSI RESIDUAL PRESSURE.

BASED ON SQUARE FOOTAGE:	11,000 SF
LARGEST AREA BETWEEN 4-HOURS AREA SEPARATE WALLS:	N/A
BUILDING HEIGHT:	24±
NUMBER OF STORIES:	2
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	E-3
FULL AUTOMATIC SPRINKLER SYSTEM:	YES
REVIEWED BY: _____ DATE: _____	



FIRE LINE PLAN

NOTE TO CONTRACTOR:
1. CONTRACTOR SHALL IDENTIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE WATERLINE, GAS LINE, AND SANITARY SEWER PRIOR TO CONSTRUCTION.
2. PROVIDE REVISED LAYOUT WITH STATIONING TO ENGINEER PRIOR TO CONSTRUCTION
3. CONTRACTOR TO COORDINATE PROTECTION AND ADJUSTMENT OF GAS LINES WITH SWG. CONTRACTOR TO NOTIFY SWG 10 WORKING DAYS PRIOR TO START OF CONSTRUCTION OF WATERLINE, IN ACCORDANCE WITH SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL EXPOSE THE GAS LINE A MINIMUM OF 1 FOOT ON ALL SIDES OF THE WATERLINE CONNECTION TO ALLOW SWG TO PERFORM THE GAS LINE RELOCATION.
5. CONTRACTOR SHALL ALLOW SWG A MINIMUM OF 1 WORKING DAY TO PERFORM THE WORK.



FIRE LINE PROFILE

VERTICAL SCALE: 1 INCH=20 FEET

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.
DATE: 6/22/2017

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811 OR 1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: PROJECT# 124440
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

CITY OF LAS VEGAS NEVADA

REVISIONS

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

SECTIONS AND DETAILS 2

STAMP
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OWNER: CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS
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FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	1:10
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C4.02 12 OF 17

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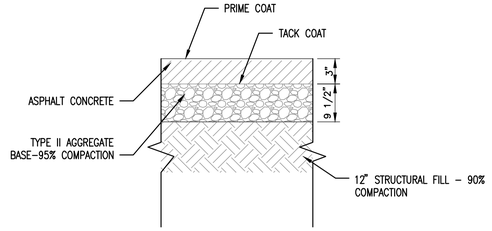
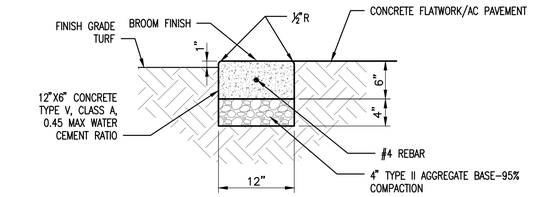


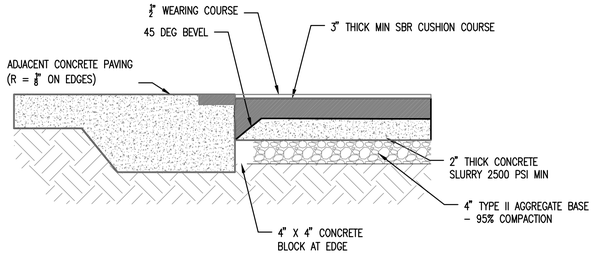
NOTES:
1. PLACE AND COMPACT TYPE II BASE TO 95% RELATIVE COMPACTION PER ASTM D 1557.
2. PLACE AND COMPACT STRUCTURAL FILL SUBGRADE TO 90% RELATIVE COMPACTION PER ASTM D 1557.
3. STRUCTURAL FILL FOR SUBGRADE TO MEET CRITERIA IN PROJECT SPECIFICATIONS.

ASPHALT SECTION — 1
SCALE: NOT TO SCALE



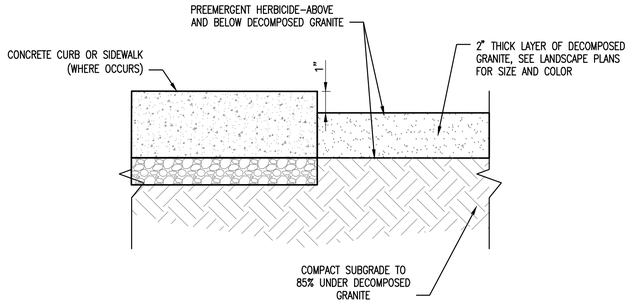
NOTES:
1. PROVIDE CONTROL JOINTS AT 6' O.C.
2. PROVIDE EXPANSION JOINTS AT 24' O.C.

12" MOW CURB — 2
SCALE: NOT TO SCALE

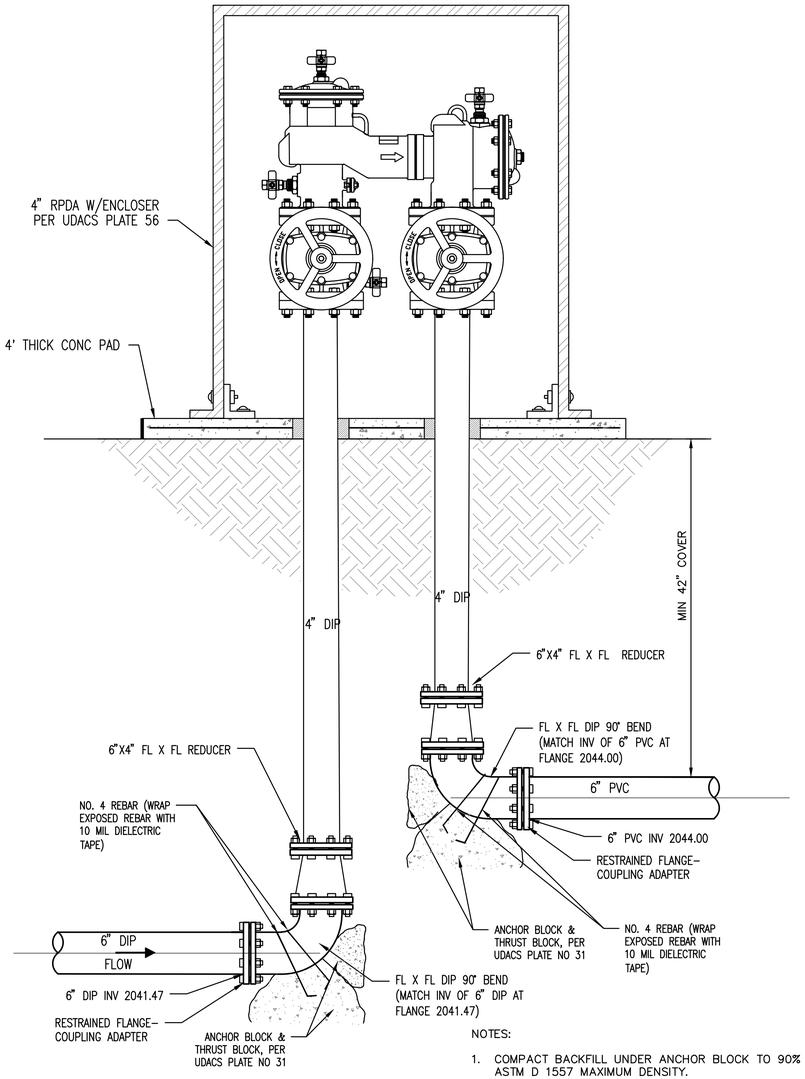


NOTES:
1. DESIGN INTENT FOR PLAY SURFACE BASED ON PEBBLE-FLEX RUBBER PELLET SYSTEM
2. CONTRACTOR TO SUBMIT STANDARD COLORS FOR OWNER SELECTION
3. CONTRACTOR TO INSTALL PER CONTRACT AND MANUFACTURERS SPECIFICATIONS

ADDITIVE/ALTERNATIVE RESILIENT PLAYGROUND SURFACE — 3
SCALE: NOT TO SCALE

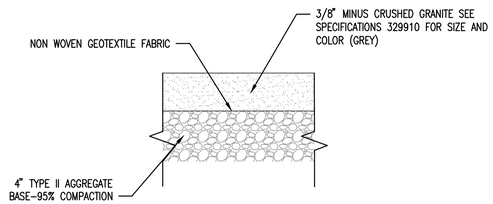


DECOMPOSED GRANITE DETAIL — 4
SCALE: NOT TO SCALE

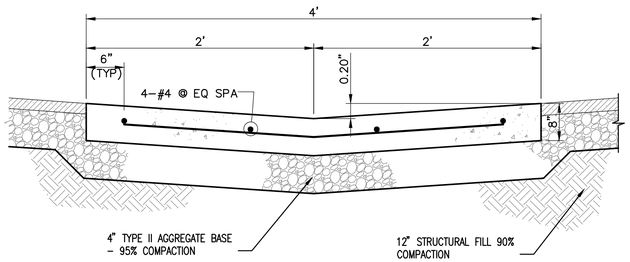


NOTES:
1. COMPACT BACKFILL UNDER ANCHOR BLOCK TO 90% ASTM D 1557 MAXIMUM DENSITY.

4' RPDA WITH UNDERGROUND REDUCERS — 7
SCALE: NOT TO SCALE

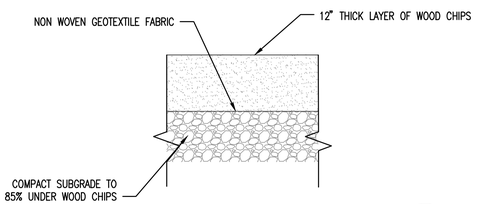


CRUSHER FINES SECTION — 5
SCALE: NOT TO SCALE



NOTE:
1. 1/2" EXPANSION JOINT REQUIRED AT 30' MINIMUM ON CENTER EACH WAY. WEAKENED PLANE JOINT REQUIRED AT 10' MINIMUM ON CENTER EACH WAY.
2. STRUCTURAL FILL TO MEET CRITERIA IN PROJECT SPECIFICATIONS
3. STRUCTURAL FILL MAY INCLUDE 6 INCHES OF SCARIFIED AND RECOMPACTED SOILS.

4' CONCRETE VALLEY GUTTER — 6
SCALE: NOT TO SCALE



CRUSHER FINES SECTION — 7
SCALE: NOT TO SCALE

CONCRETE GENERAL NOTES
1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. CONCRETE SHALL BE TYPE V CEMENT WITH 4500 PSI DESIGN STRENGTH AND SHALL HAVE A WATER CEMENT RATIO OF 0.45 BY WEIGHT.
3. CONCRETE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 501 AND 502. REINFORCING STEEL SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 505.
4. CONCRETE CURB, WALK, GUTTERS, DRIVEWAYS, ADA RAMPS, AND ALLEY INTERSECTIONS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 613.

TYPE II GENERAL NOTES
1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. TYPE II AGGREGATE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 602.
3. THE COMPACTION RATE SHALL BE A 95% MINIMUM COMPACTION, UNLESS OTHERWISE NOTED IN PLANS OR SPECFICATIONS.

AC GENERAL NOTES
1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. AC PAVING SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 401 AND 402.
3. TACK COAT SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 405.
4. PRIME COAT SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 406.
5. STRUCTURAL FILL BELOW AC SECTIONS MAY INCLUDE 8 INCHES OF SCARIFIED AND RECOMPACTED NATIVE SOIL. SCARIFICATION MAY TERMINATE WHERE CALICHE IS ENCOUNTERED PROVIDED SUBGRADE IS EVALUATED AND TERMINATION IS APPROVED BY GEOTECHNICAL ENGINEER.
6. SOIL PREPARATION AREA MUST EXTEND LATERALLY 2 FEET, OR MORE, BEYOND THE EDGES OF THE AC PAVEMENT.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT
ENGINEERING SERVICES MANAGER

DATE: PROJECT# 124440

LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

CITY OF LAS VEGAS NEVADA

REVISIONS

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

SECTIONS AND DETAILS 3

STAMP

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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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CLV DWG NO	521.301
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SHT NO	C4.03
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RECORD DRAWING
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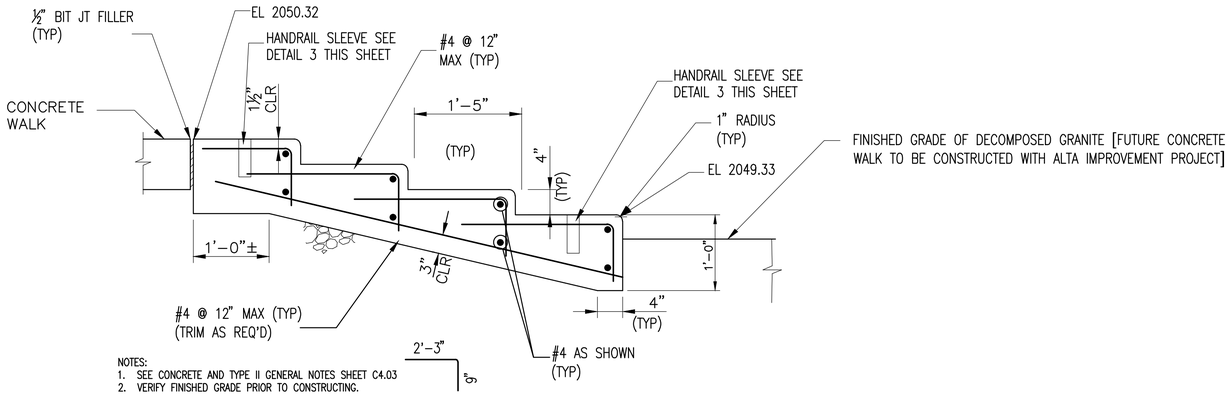
DATE: 6/22/2017

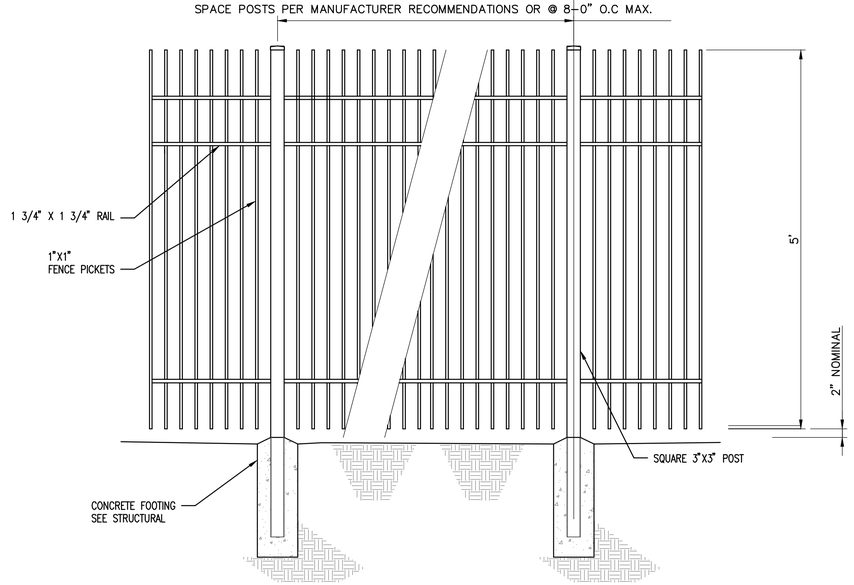


NOTES:
1. SEE CONCRETE AND TYPE II GENERAL NOTES SHEET C4.03
2. VERIFY FINISHED GRADE PRIOR TO CONSTRUCTING.

STAIR SECTION

SCALE: NOT TO SCALE

1 / -

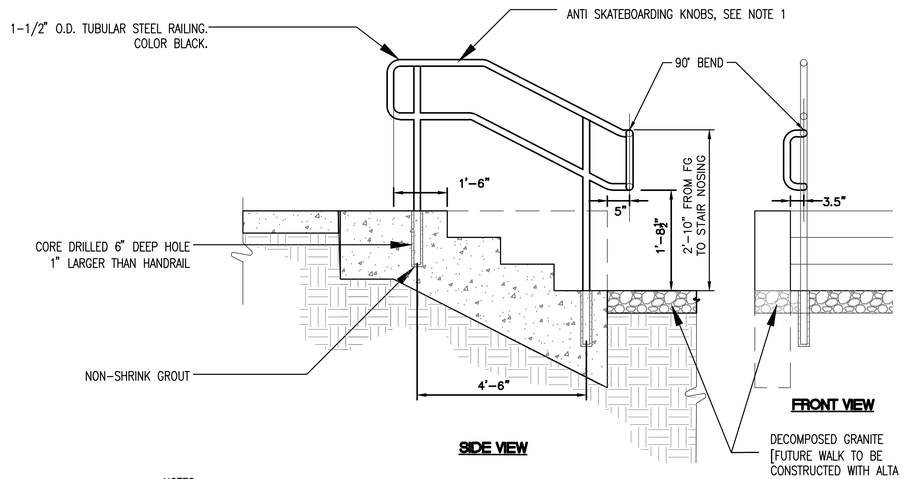


NOTES:
1. SHOP DRAWING WITH MANUFACTURER INFORMATION FOR FENCE AND GATE INCLUDING CUT SHEETS AND COLOR SAMPLE REQUIRED.
2. FENCE PANEL AND POSTS TO BE WHITE COLOR, AMERISTAR ECHELON II INDUSTRIAL ORNAMENTAL ALUMINUM FENCE, GENESIS STYLE, WITH 3 RAIL PANELS AND STANDARD ALUMINUM FLAT CAPS, OR APPROVED EQUAL.
3. GATE STYLE AND MANUFACTURER TO MATCH APPROVED PANEL AND POST STYLE AND MANUFACTURER.
4. GATE AND FENCE PANELS TO BE STANDARD SIZES; PROVIDE 5' CLR AT MAIN ENTRANCE & FIRE ACCESS ENTRANCE AND 3.5' CLR ELSEWHERE.
5. FOR PUSHBAR EXIT AND OTHER GATE HARDWARE SEE A1.01.
6. SEE STRUCTURAL PLANS FOR FOUNDATION.
7. ON RETAINING WALL, EMBED FENCE POST INTO CMU BLOCK, 2 CELLS DEEP.

ALUMINUM FENCE

SCALE: NOT TO SCALE

2 / -



NOTES:
1. 1.5" DIA. SCHEDULE 40 STEEL PIPE GALVANIZED WITH 2"X2"X1" ANTI SKATEBOARDING KNOBS WELDED IN PLACE. KNOBS SHALL BE PLACED 1' O.C.
2. VERIFY DIMENSIONS PRIOR TO FABRICATING
3. INSTALL ON BOTH SIDES OF STAIRS, MAINTAIN MINIMUM 4' CLEAR BETWEEN HANDRAILS.

HANDRAIL SECTION

SCALE: NOT TO SCALE

3 / -

CITY OF LAS VEGAS NEVADA

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

SECTIONS AND DETAILS 4

STAMP

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CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	C4.04

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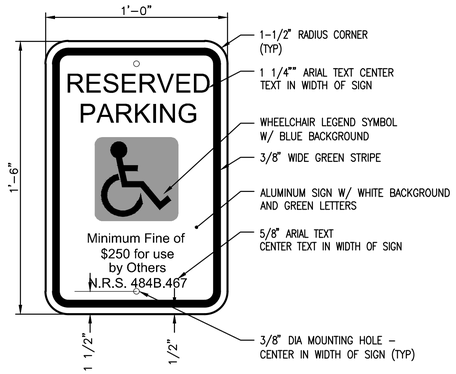
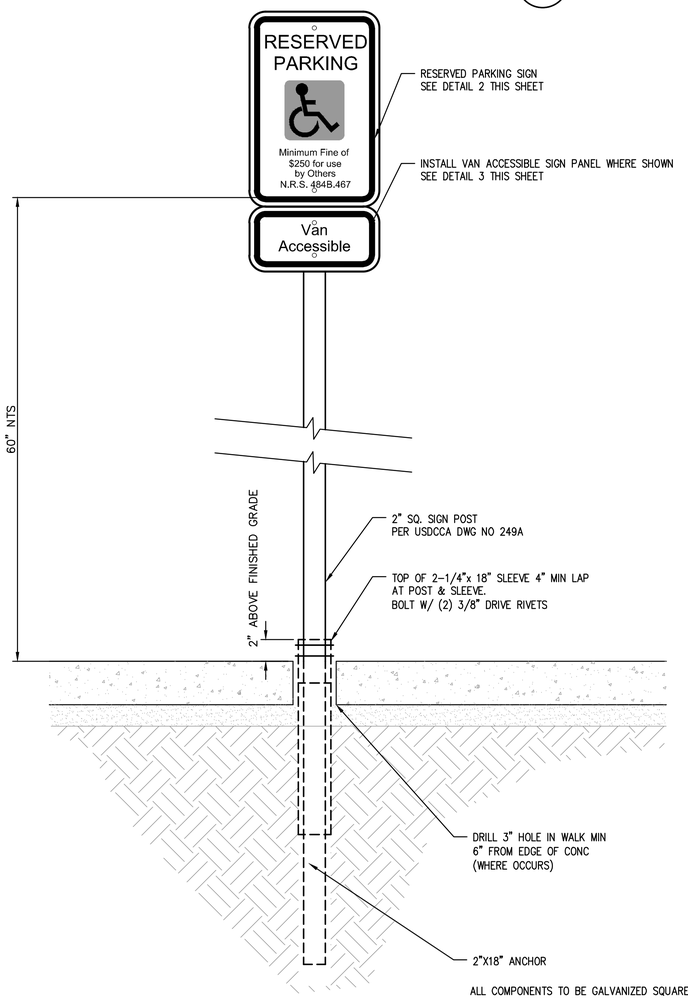


RESERVED PARKING SIGN PANEL

SCALE: NOT TO SCALE

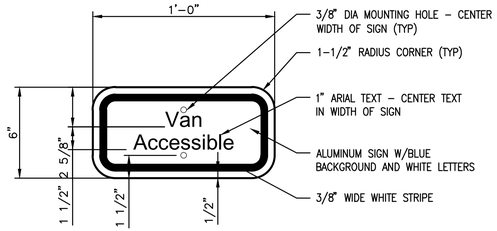
2



RESERVED PARKING SIGN PANEL AND POST

SCALE: NOT TO SCALE

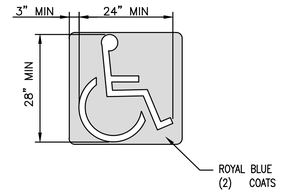
1



VAN ACCESSIBLE SIGN PANEL

SCALE: NOT TO SCALE

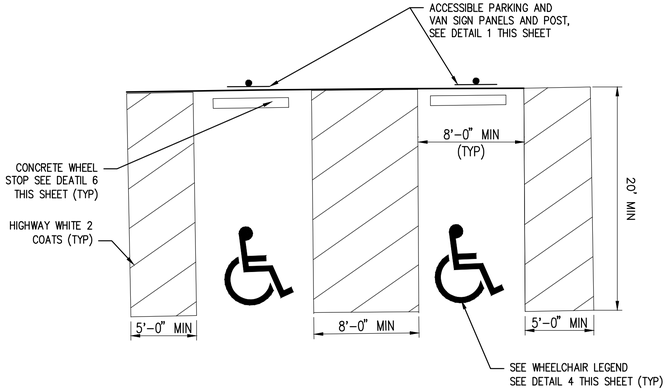
3



WHEELCHAIR LEGEND (PMC TYPE I)

SCALE: NOT TO SCALE

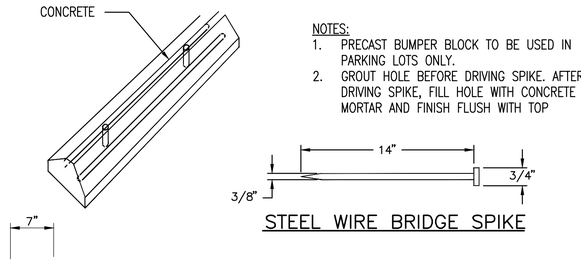
4



ADA PARKING

SCALE: NOT TO SCALE

5



CONCRETE WHEEL STOP

SCALE: NOT TO SCALE

6

SIGN STRIPING, AND PAVEMENT MARKERS GENERAL NOTES

1. MATERIALS SUBMITTED MUST BE ON THE APPROVED IQAC.
2. TRAFFIC SIGNAGE SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 627.
3. TRAFFIC STRIPING, PAVEMENT MARKERS, AND CURB MARKINGS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 628.
4. PAVEMENT MARKERS SHALL CONFORM TO THE CRITERIA SET FORTH IN USDCCA 633.
5. ONSITE PAVEMENT MARKINGS: HI-PERFORMANCE ACRYLIC ZONE MARKING PAINT BY AEXCEL CORPORATION, 440-974-3800: WHITE 22W-E008, YELLOW 22Y-E006, BLACK 22A-E001, OR APPROVED EQUAL. ALL MATERIALS SHALL BE FREE OF LEAD, CADMIUM, MERCURY, HEXAVELENT CHROMIUM AND OTHER HEAVY METALS AS DEFINED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
SECTIONS AND DETAILS 5

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HANSEN NO	60316
SHT NO	C4.05
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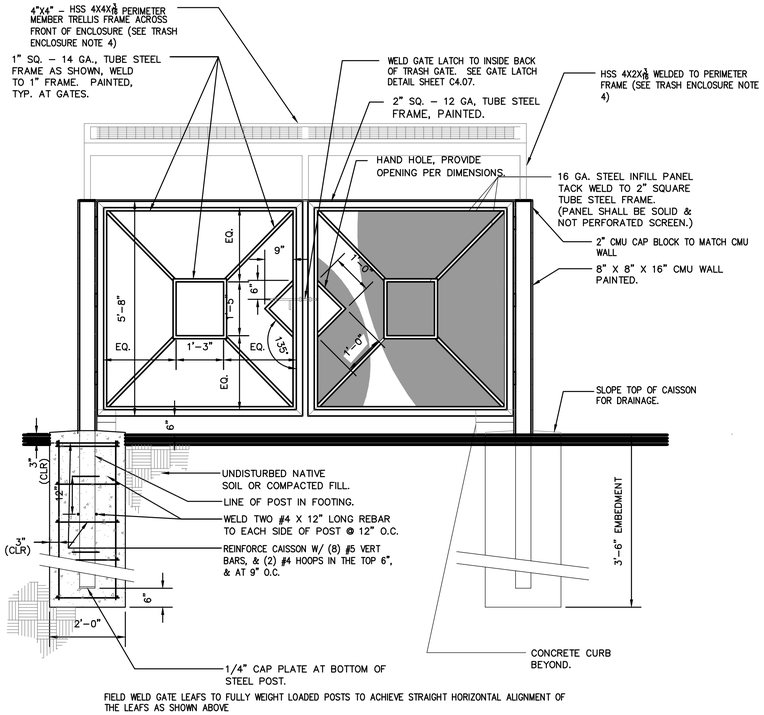
DATE: 6/22/2017

TRASH ENCLOSURE NOTES:

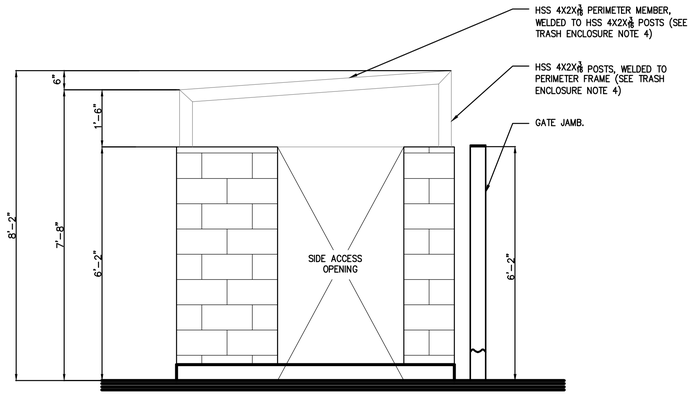
1. BLOCK WALL FOR TRASH ENCLOSURE TO BE SPLIT FACE, LIGHT BROWNIN COLOR, SELECTED FROM SUPPLIERS STANDARD COLOR PALLETE.
2. ALL EXTERIOR METAL AT TRASH ENCLOSURE SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS. PAINT COLOR TO BE WHITE TO MATCH PLAYGROUND FENCE.
3. CMU WALL ENCLOSURE SECTION SEE STRUCTURAL DRAWINGS.
4. MAXIMUM GATE WEIGHT SHALL NOT EXCEED 300 LBS.



FIELD WELD GATE LEAFS TO FULLY WEIGHT LOADED POSTS TO ACHIEVE STRAIGHT HORIZONTAL ALIGNMENT OF THE LEAFS AS SHOWN ABOVE

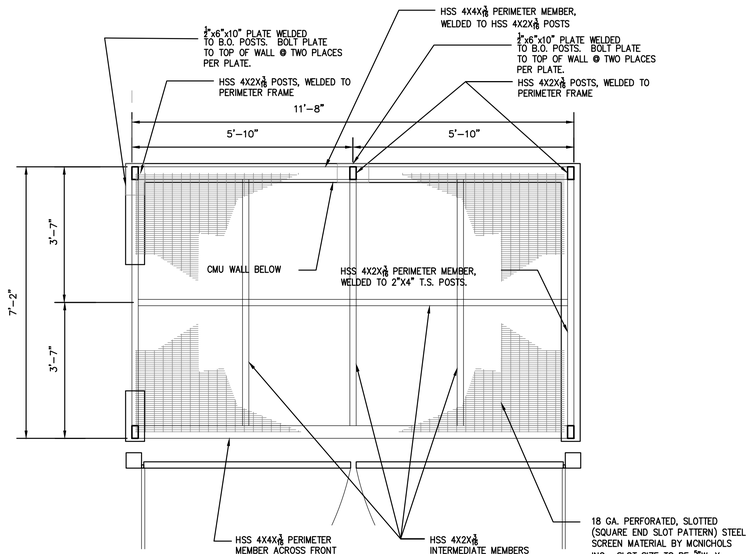
TRASH ENCLOSURE - FRONT ELEVATION (1/-)

SCALE:1/4"=1'-0"



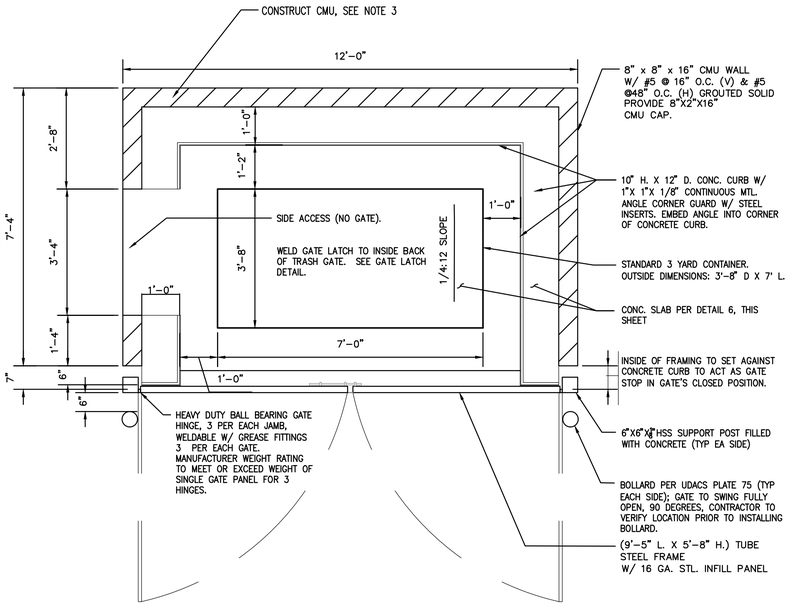
TRASH ENCLOSURE - SIDE ELEVATION (3/-)

SCALE:1/4"=1'-0"



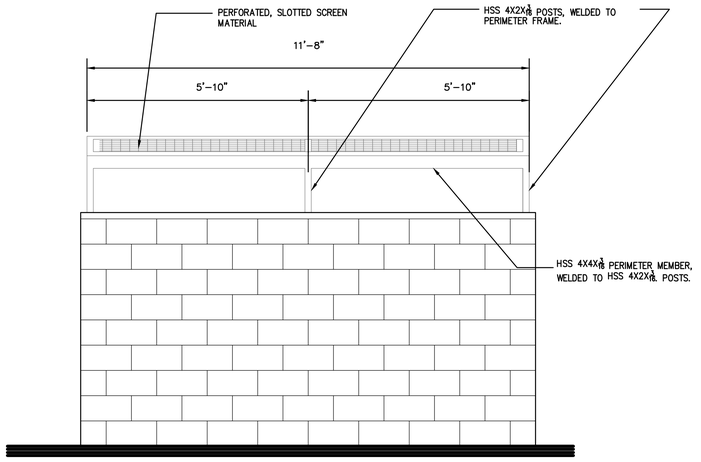
TRASH ENCLOSURE - TRELLIS PLAN (5/-)

SCALE:1/4"=1'-0"



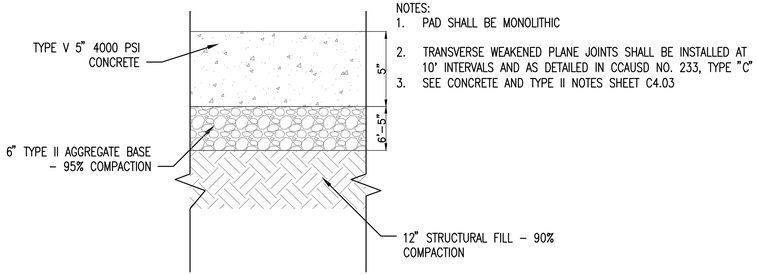
TRASH ENCLOSURE - PLAN (2/-)

SCALE:1/4"=1'-0"



TRASH ENCLOSURE - REAR ELEVATION (4/-)

SCALE:1/4"=1'-0"



NOTES:
1. PAD SHALL BE MONOLITHIC
2. TRANSVERSE WEAKENED PLANE JOINTS SHALL BE INSTALLED AT 10' INTERVALS AND AS DETAILED IN CCAUSD NO. 233, TYPE "C"
3. SEE CONCRETE AND TYPE II NOTES SHEET C4.03

NOTE:
1. STRUCTURAL FILL TO MEET CRITERIA IN PROJECT SPECIFICATIONS

TRASH ENCOSURE PAD (6/-)

SCALE: NOT TO SCALE

CITY OF LAS VEGAS
NEVADA

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

TRASH ENCLOSURE DETAILS 1

STAMP

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DEPARTMENT OF PUBLIC WORKS

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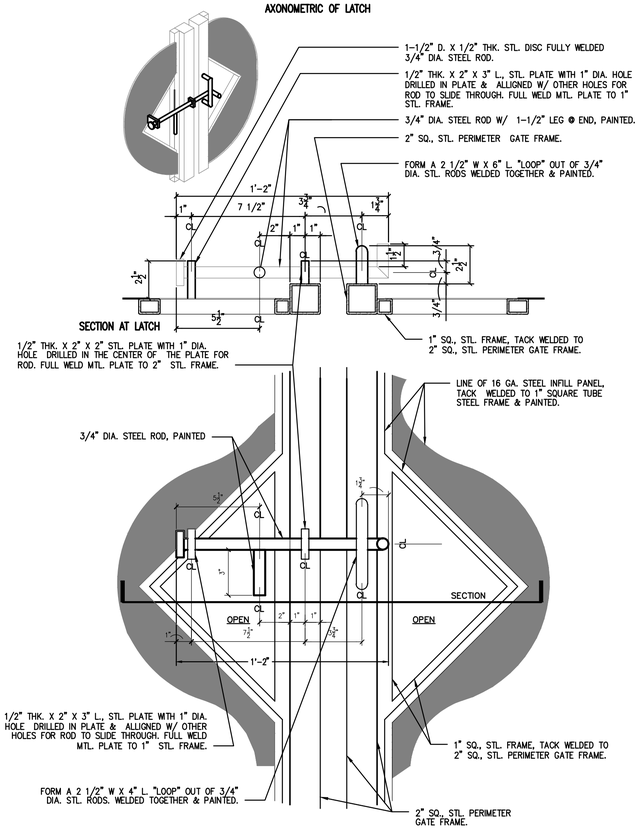

GATE LATCH DETAIL

SCALE: NOT TO SCALE

1
-

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

TRASH ENCLOSURE DETAILS 2

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GENERAL STRUCTURAL NOTES

GENERAL REQUIREMENTS

DRAWINGS

THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKERS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

MISCELLANEOUS ITEMS

CALCULATION AND DESIGN OF MISCELLANEOUS NON-STRUCTURAL ITEMS, SUCH AS STAIRS, RAILINGS, NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS FLOOR AND ROOF TRUSSES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.

CONSTRUCTION MEANS AND METHODS

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORM-WORK, ETC... AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY (INCLUDING UTILITIES) DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE PLACED ON THE STRUCTURE SUCH THAT THE DESIGN LOADS ARE NOT EXCEEDED.

DIMENSIONS, INSERTS AND OPENINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED BEFORE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WHERE DISCREPENCIES OCCUR IN THESE DRAWINGS, NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STUCTURAL NOTES AND TYPICAL DETAILS.

CONTRACTOR SHALL ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

STANDARDS

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE EDITION REFERENCED IN THE GOVERNING BUILDING CODE.

TYPICAL DETAILS AND NOTES

TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

SHOP DRAWINGS

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENEREAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. ENGINEERING SYSTEM SOLUTIONS SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. FIVE WORKING DAYS SHALL BE ALLOWED FOR THE ENGINEER'S REVIEW. CONTRACTOR SHALL PROVIDE A COPY OF EACH SUBMITTAL FOR ENGINEERING SYSTEM SOLUTIONS RECORDS.

SHOP DRAWINGS SHALL REFERENCE DATE AND DELTA (IF ANY) OF CONTRACT DRAWINGS.

MOLD

MOLD CONCERNS AND PREVENTION IS OUT OF ENGINEERING SYSTEM SOLUTIONS SCOPE OF SERVICES. ENGINEERING SYSTEM SOLUTIONS SHALL BE HELD HARMLESS, TO THE EXTENT OF THE LAW, FOR ALL MOLD PREVENTION AND MOLD RELATED CONCERNS.

BASIS FOR DESIGN

GOVERNING BUILDING CODE	2012 IBC
GRAVITY	
ROOF DEAD	23 PSF
ROOF LIVE	20 PSF
FLOOR DEAD	30 PSF
FLOOR LIVE	40 PSF
EGRESS LIVE	100 PSF
*LIVE LOADS REDUCED AS PERMITTED BY BUILDING CODE	
RISK CATEGORY	
RISK CATEGORY	II
SEISMIC	
ANALYSIS PROCEDURE	EQUIVALENT LATERAL-FORCE PROCEDURE
SEISMIC FORCE RESISTING SYSTEM	WOOD SHEAR WALL
R	6.5
I	1.0
Ss	0.478
S1	0.163
SDS (SHORT PERIOD)	0.451
SD1 (1-SECOND PERIOD)	0.233
SITE CLASS	D
SEISMIC DESIGN CATEGORY	D
Cs	0.069
WIND	
BASIC WIND SPEED	115 MPH
EXPOSURE	C
GCPi	± 0.18
DEFLECTION LIMITS	
WOOD FLOOR ELEMENTS: TRUSSES AND JOISTS	
TOTAL LOAD	L/480
LIVE LOAD	L/600
WOOD ROOF ELEMENTS: TRUSSES AND JOISTS	
TOTAL LOAD	L/240
LIVE LOAD	L/360
SOILS	
SOIL BEARING PRESSURE (D+L+Lr)	1800 PSF
SOIL BEARING PRESSURE x 1.33 (+W OR +E)	2400 PSF
MINIMUM EMBEDMENT DEPTH	18 INCHES
PASSIVE BEARING PRESSURE	340 PCF
ACTIVE BEARING PRESSURE	40 PCF
COEFF OF FRICTION	0.36

FOUNDATION

FOUNDATION PREPARATION

AS A MINIMUM THE EXISTING SUBBASE SHALL BE FREE OF COBBLES LARGER THAN 12" IN DIAMETER AND SILT OR CLAY DEPOSITS.

EXISTING SUBBASE SHALL BE SCARIFIED FOR 12" DEPTH AND COMPACTED (95% DRY DENSITY), AND 8" OF WELL-GRADED 3" MINUS GRANULAR MATERIAL BE PLACED ON EXISTING COMPACTED SUBBASE AND COMPACTED (95% DRY DENSITY).

DESIGN RECOMMENDATIONS

FIRM: GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC; REPORT NO.: 20153743E1; DATE: SEP 30, 2015

FOOTING EMBEDMENT

ALL FOOTINGS SHALL EXTEND BELOW GRADE THE MINIMUM EMBEDMENT DEPTH AS NOTED ON THE FOUNDATION PLAN.

GRADE IS DEFINED AS FOLLOWS

INTERIOR FOOTINGS: TOP OF SLAB.

PERIMETER FOOTINGS: PAD GRADE OR NATURAL GRADE BEFORE LANDSCAPING.

EXTERIOR FOOTINGS: TOP OF PERMANENT EXTERIOR PAVING OR CONCRETE AT LEAST 5 FEET WIDE STARTING AT THE BUILDING PERIMETER.

BACKFILL

BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR WALLS UNTIL THE INTERIOR FLOOR SYSTEM CAN ADEQUATELY BRACE THE WALL.

BACKFILL AND RECOMPACT ALL TRENCHES PER THE GEOTECHNICAL REPORT. (MIN 90% DRY DENSITY)

DRAINAGE

PROVIDE ADEQUATE DRAINAGE AWAY FROM THE STRUCTURE.

CONCRETE

MATERIAL

MINIMUM 28 DAY COMPRESSIVE STRENGTH FOR SLAB ON GRADE, FOOTING, AND WALLS IS 4500 PSI (DESIGNED FOR 2500).

CEMENT SHALL BE TYPE V.

MAXIMUM W/C RATIO SHALL BE 0.45.

CONCRETE SLUMP SHALL BE 4 INCHES.

ALL CONCRETE SHALL BE NORMAL WEIGHT OF 145 POUND PER CUBIC FOOT UNLESS NOTED OTHERWISE, USING HARD ROCK AGGREGATES CONFORMING TO ASTM C33.

BATCHING, MIXING, AND TRANSPORTING

BATCHING, MIXING, AND TRANSPORTING CONCRETE SHALL BE PER ACI 301.

CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER OF RECORD.

PORTLAND CEMENT SHALL CONFORM TO ACI 301.

WATER SHALL NOT BE ADDED AT THE JOB SITE SUCH THAT THE APPROVED MIX DESIGN W/C RATIO IS EXCEEDED.

FORM WORK

FORM WORK SHALL BE PER ACI 301.

PLACING

PLACING OF CONCRETE SHALL BE PER ACI 301.

PLACING OF CONCRETE BY MEANS OF PUMPING SHALL BE PER ACI 301.

WHERE THERE IS A RISK OF PREMATURE DRYING, SUCH AS IN HOT OR WINDY WEATHER, CURING MEASURES SHALL BE IMPLEMENTED PER THE RECOMMENDATIONS OF ACI 301.

CONSOLIDATION

CONSOLIDATION OF CONCRETE SHALL BE PER ACI 301.

EMBEDDED ITEMS

EMBEDDED ITEMS SHALL BE PLACED PER ACI 301.

CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

EMBEDDED CONDUITS, PIPES, AND SLEEVES SHALL NOT BE LARGER IN DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, BEAM, OR WALL IN WHICH THEY ARE EMBEDDED AND SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR ELEMENT WIDTHS ON CENTER.

NO ALUMINUM EMBEDS SHALL BE IN DIRECT CONTACT WITH CONCRETE.

COLD WEATHER CONCRETING

WHEN THE AIR TEMPERATURE IS BELOW 40°F, COLD WEATHER CONCRETE PROCEDURES SHALL BE USED PER ACI 301.

A CONSTRUCTION PLAN SHALL BE SUBMITTED TO THE ENGINEER DETAILING THE PROTECTION PROCEDURES PRIOR TO PLACEMENT OF CONCRETE.

HOT WEATHER CONCRETING

PRIOR TO CONCRETE PLACEMENT, TOP 3 INCHES OF SUB-BASE SHALL BE WETTED SUFFICIENTLY TO SATURATE SUB-BASE WITHOUT ANY STANDING WATER.

CONCRETE PLACEMENT TEMPERATURE MAY NOT EXCEED 90° FAHRENHEIT WHEN MEASURED IN ACCORDANCE WITH ASTM C1064.

STEEL FORMS AND REINFORCEMENT SHALL BE COOLED PRIOR TO CONCRETE PLACEMENT WHEN STEEL TEMBERATURES EXCEED 120° FAHRENHEIT.

MIX WATER, AGGREGATES, CONVEYING AND PLACING EQUIPMENT OR ANY COMBINATION OF THE ABOVE SHALL BE COOLED IF NECESSARY TO MAINTAIN PROPER CONCRETE PLACING TEMPERATURE.

REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED, EXCEPT AS NOTED IN ACI 301.

USE OF EPOXY-COATED BARS IS NOT PERMITTED.

GRADE

ALL WELDED BARS SHALL BE GRADE 60, REFER TO ASTM STANDARD A706.

#4 BARS OR LARGER SHALL BE GRADE 60, REFER TO ASTM STANDARD A615.

#3 BARS OR SMALLER SHALL BE GRADE 40, REFER TO ASTM STANDARD A615.

WELDED WIRE FABRIC SHALL BE GRADE 60, REFER TO ASTM STANDARD A185.

REINFORCING STEEL

CLEAR COVER

ALL DIMENSIONS NOT NOTED AS "CLR" ARE TO THE CENTER OF THE BAR.

FOR CLEAR COVER REQUIREMENTS REFER TO TYPICAL DETAIL "MINIMUM COVER FOR NON-PRESTRESSED STEEL".

REINFORCEMENT SUPPORTS

REINFORCEMENT SUPPORT SHALL BE PROVIDED TO MAINTAIN CLEAR DIMENSIONS SHOWN ON PLANS AND SHALL CONFORM TO ONE OF THE FOLLOWING SUPPORT TYPES: WIRE, COATED WIRE, PRECAST CONCRETE, PLASTIC.

REINFORCEMENT SUPPORT SHALL COMPLY WITH ACI 301.

LAP SPLICING

UNLESS NOTED OTHERWISE TACK WELDING OF REINFORCING BARS NOT ALLOWED.

FOR LAP LENGTH REQUIREMENTS REFER TO TYPICAL DETAIL "LAP LENGTH SCHEDULE".

MECHANICAL SPLICE COUPLERS

MECHANICAL SPLICE COUPLERS SHALL HAVE CURRENT ICC-ES APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE STRENGTH OF THE BAR.

WELDING

WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM TO AWS D1.4.

BENDING

BENDING SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE UNBENT AND REBENT. #5 BAR AND SMALLER MAY BE COLD FIELD BENT. #6 BAR AND LARGER SHALL NOT BE FIELD BENT WITHOUT PRIOR APPROVAL FROM ENGINEER.

PLACE AND DETAIL

ALL BARS SHALL BE DETAILED AND PLACED PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

WOOD

GENERAL

SAWN FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY.

DO NOT NOTCH OR DRILL JOISTS, BEAMS, OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.

FABRICATION AND HANDLING SHALL CONFORM WITH THE LATEST AITC AND ASTM STANDARDS.

ALL ENGINEERED WOOD PRODUCTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ESR-1387 OR APPROVED EQUAL.

SAWN LUMBER

SAWN LUMBER SHALL BE DOUGLAS FIR LARCH, NO. 2 UNLESS NOTED OTHERWISE.

2x4 STUDS, BLOCKING, AND TOP PLATES SHALL BE DOUGLAS FIR LARCH, STUD GRADE.

6x6 POSTS AND LARGER SHALL BE NO. 1 GRADE.

GLUE-LAMINATED BEAMS (GLB)

GLULAM BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4 AT SIMPLE SPAN BEAMS AND 24F-V8 AT CANTILEVERED AND MULTI-SPAN BEAMS, UNLESS NOTED OTHERWISE, AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

- E=1,800,000 PSI
- Fb=2,400 PSI
- Fc (PERPENDICULAR)=650 PSI
- Fc (PARALLEL)=1,650 PSI
- Fv=265 PSI

BEAMS SHALL BE MANUFACTURED WITH 2000' RADIUS MINIMUM CAMBER UNLESS CAMBER IS SPECIFICALLY NOTED ON THE DRAWINGS.

STRUCTURAL USE PANELS

STRUCTURAL USE PANELS SHALL BE PERFORMANCE RATED BY THE AMERICAN PLYWOOD ASSOCIATION (APA). PANELS SHALL COMPLY WITH ICC REPORT NO. NER-108, EXPOSURE 1, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PLYWOOD SHALL BE FIVE-PLY SHEATHING. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. PLYWOOD MAY BE ORIENTED PER SHEARWALL SCHEDULE. ORIENTED STRAND BOARD (OSB) MAY BE USED AS AN ALTERNATE TO PLYWOOD. PROVIDE BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. PANELS SHALL CONFORM TO THE NOMINAL THICKNESS, SPAN RATING AND MINIMUM NAILING PATTERN PER TYPICAL SHEATHING REQUIREMENTS DETAIL UNLESS NOTED OTHERWISE.

PROVIDE ONE PANEL CLIP BETWEEN SUPPORTS SPACED GREATER THAN 16" ON CENTER AND TWO PANEL CLIPS BETWEEN SUPPORTS SPACED GREATER THAN 32" ON CENTER. AS AN ALTERNATIVE, TONGUE AND GROOVE MAY BE USED OR UNSUPPORTED PANEL EDGES MAY BE BLOCKED WITH 2x FLAT BLOCKING.

BOTTOM PLATES (SOLE PLATES)

EXTERIOR WALLS OR SHEARWALLS: BOTTOM PLATES RESTING ON CONCRETE OR MASONRY SHALL BE TREATED DOUGLAS FIR. BOTTOM PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH CAST-IN-PLACE ANCHOR BOLTS EMBEDDED 7" MINIMUM IN CONCRETE UNLESS NOTED OTHERWISE. PROVIDE MINIMUM (1) ANCHOR BOLT LOCATED NOT MORE THAN 9" OR LESS THAN 4" FROM EACH END OF EACH BOTTOM PLATE PIECE. ANCHOR BOLTS FOR HOLDOWNS SHALL NOT BE CONSIDERED AS A SHEARWALL ANCHOR BOLT. CAST-IN-PLACE ANCHOR BOLTS MAY BE SUBSTITUTED WITH POST-INSTALLED ANCHORS WITH SAME DIAMETER AND SPACING WITH 7" MINIMUM CONCRETE EMBEDMENT.

FOUNDATION ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER UNDER EACH NUT NOT LESS THAN 1/4"x3"x3" IN SIZE (1/4"x3"x4 1/2" AT 2x6 WALLS WITH SHEATHING BOTH FACES). THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4" PROVIDED A STANDARD CUT WASHER (0.109"x1 3/8" OUTSIDE DIAMETER AT 1/2" DIAMETER BOLT OR 0.134"x1 3/4" OUTSIDE DIAMETER AT 5/8" DIAMETER BOLT) IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING.

INTERIOR BEARING AND PARTITION WALLS: BOTTOM PLATES RESTING ON CONCRETE OR MASONRY AT NON-SHEARWALL LOCATIONS SHALL BE TREATED DOUGLAS FIR. BOTTOM PLATES SHALL BE ANCHORED TO FOUNDATION WITH 1/2" DIAMETER EXPANSION ANCHORS WITH 3" EMBEDMENT AT 48" ON CENTER MAXIMUM OR 0.145" DIAMETER POWDER ACTUATED FASTENERS WITH 1" EMBEDMENT AT 32" ON CENTER MAXIMUM.

NAILS

ALL NAILS, EXCEPT 16d, SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE. 16d NAILS MAY BE SINKERS OR BOX UNLESS NOTED OTHERWISE ON PLANS OR SCHEDULES. NAILS SHALL BE DRIVEN SO THAT THE HEADS ARE FLUSH WITH WOOD SURFACE. OVER OR UNDER DRIVEN NAILS WILL NOT BE ACCEPTABLE.

WOOD

16d NAILS HAVE A MINUMUM SHANK DIAMETER OF 0.135" AND ARE 3 1/2" LONG. 10d NAILS HAVE A SHANK DIAMTER OF 0.148" AND ARE 3" LONG. 8d NAILS HAVE A SHANK DIAMETER OF 0.131" AND ARE 2 1/2" LONG.

BOLTS AND LAG SCREWS

ALL BOLTS SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/16" LARGER THAN THE DIAMETER OF THE BOLT.

CUT WASHERS SHALL BE PLACED UNDER BOLT HEADS AND NUTS. SPOIL THREADS TO PREVENT LOOSENING.

LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES 40% TO 70% OF THE DIAMETER OF THE LAG SCREW AND INSTALLED BY TURNING WITH A WRENCH.

ANCHORS

FRAMING ANCHORS, HANGERS, AND OTHER MISCELLANEOUS HARDWARE SPECIFIED ON PLANS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC OR EQUIVALENT WITH CURRENT ICC APPROVAL.

WHERE METAL CONNECTORS, ANCHORS, FASTENERS, ETC. ARE INSTALLED IN OR EXPOSED TO POTENTIALLY CORROSIVE ENVIRONMENTS OR MATERIALS (I.E. PRESSURE TREATED WOOD, FIRE RETARDANTS, DISSIMILAR METALS, ETC.), APPROPRIATE MEASURES SHALL BE TAKEN (I.E. USE OF CORROSIVE RESISTANT METAL, PROPER APPLICATION OF ADEQUATE PROTECTIVE COATING, ETC.) IN ORDER TO PROTECT THE HARDWARE AGAINST DAMAGE THAT MAY ADVERSELY AFFECT ITS LOAD CARRYING CAPACITY. REFER TO MANUFACTURER FOR SPECIFIC APPLICATION, LIMITATIONS, OR ADDITIONAL REQUIREMENTS.

POST-INSTALLED ANCHORAGE

INSTALLATION

INSTALL THE ITEMS BELOW PER THE CURRENT ICC-ES OR IAPMO-UES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

ADHESIVE ANCHORS

ADHESIVE-ANCHORED THREADED RODS AND REBAR SHALL BE INSTALLED USING ONE OF THE FOLLOWING ADHESIVE ANCHOR SYSTEMS:

FOR CONCRETE: HILTI HIT-RE 500-SD (ICC ESR-2322), OR SIMPSON STRONG-TIE SET-XP (ICC ESR-2508), OR SIMPSON STRONG-TIE AT-XP (IAPMO ER-263), OR HILTI HIT-HY 200 (ICC ESR-3187)

FOR GROUTED MASONRY: HILTI HIT-HY 70 (ICC ESR-2682), OR SIMPSON STRONG-TIE SET-XP (IAPMO ER-265), OR SIMPSON STRONG-TIE AT-XP (IAPMO ER-281)

INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT PRIOR TO ANCHOR INSTALLATION.

EXPANSION ANCHORS

EXPANSION ANCHORS SHALL BE INSTALLED USING ONE OF THE FOLLOWING:

FOR CONCRETE: HILTI KWIK BOLT TZ (ICC ESR-1917) OR SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC ESR-3037)

FOR GROUTED MASONRY: HILTI KWIK BOLT 3 (ICC ESR-1385) OR SIMPSON STRONG-TIE STRONG-BOLT 2 (IAPMO ER-240)

SCREW ANCHORS

SCREW ANCHORS SHALL BE INSTALLED USING ONE OF THE FOLLOWING:

FOR CONCRETE: HILTI KWIK HUS-EZ (ICC ESR-3027) OR SIMPSON STRONG-TIE TITEN HD (ICC ESR-2713)

FOR GROUTED MASONRY: HILTI KWIK HUS-EZ (ICC ESR-3056) OR SIMPSON STRONG-TIE TITEN HD (ICC ESR-1056)

ALTERNATE

ALTERNATE ANCHOR SYSTEMS WITH CURRENT ICC-ES OR IAPMO-UES REPORT MAY BE USED WITH PRIOR WRITTEN APPROVAL BY ENGINEER.

DEFERRED SUBMITTALS

SPECIALTY ITEMS

PREFABRICATED OR SPECIALTY ITEMS AND THEIR COMPONENTS, WHICH ARE INDICATED BY THE STRUCTURAL DRAWINGS TO BE DESIGNED BY OTHERS, MAY BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER OF RECORD FOR REVIEW AS A DEFERRED SUBMITTAL PROVIDED THAT SUCH SUBMITTAL IS AUTHORIZED BY THE BUILDING DEPARTMENT. DEFERRED SUBMITTALS REQUIRED TO BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD SHALL INCLUDE BUT NOT BE LIMITED TO:

- AWNINGS, SIGNAGE, FASCIAS, ETC.
- FIRE SPRINKLERS
- CONCRETE MIX DESIGN
- SHADE STRUCTURE

PREPARATION

ALL DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS AND DRAWINGS PREPARED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND STAMPED BY AN APPROPRIATELY LICENSED PROFESSIONAL ENGINEER. SUBMITTALS SHALL SHOW LOCATION AND MAGNITUDE OF LOADS, SIZE AND CONFIGURATIONS OF MEMBERS, AND COMPATIBILITY WITH THE PRIMARY STRUCTURAL SYSTEM.

REVIEW

DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED IN ACCORDANCE WITH STANDARD SHOP DRAWING REVIEW PROCEDURES AS DESCRIBED IN THE GENERAL REQUIREMENTS SECTION OF THE GENERAL STRUCTURAL NOTES.

STRUCTURAL LEGEND

RME XX#	ROOF MOUNTED EQUIPMENT	C1 C2	STEEL COLUMN (W, HSS)
ELEV: 1' - 0" T.O. STEEL	SPOT ELEVATION	W12X26	STEEL BEAM
1 S1.1	SECTION CUT LINE		STEEL MOMENT CONNECTION
1 S1.1	ELEVATION CALLOUT		STEEL DRAG CONNECTION
T.O. FLR 95' - 0"	ELEVATION		STEEL DOUBLE ANGLE CONNECTION
STEP	STEP IN ELEVATION		STEEL DIAGONAL BRACING
F2.0	COLUMN FOOTING		STEEL BAR GRADING
WF 1.5	WALL FOOTING	MF1	STEEL MOMENT FRAME
CP1	CONCRETE PILE		CONCRETE OVER METAL DECK
GB1	GRADE BEAM		METAL DECK
CW1	CONCRETE WALL		STUD BEARING WALL
CC1	CONCRETE COLUMN	A (1'-0")	STUD SHEAR WALL
CB1	CONCRETE BEAM	P1	WOOD POST
CMF 1	CONCRETE MOMENT FRAME	1	WOOD BEAM OR HEADER
	ONE WAY CONCRETE SLAB	CS16	STRAP AT OPENING
	TWO WAY CONCRETE SLAB	HDU4 TD1	HOLDOWN/ TIE DOWN
1	PT TENDON W/ DEAD END		WOOD SHEATHING
1	PT TENDON STRESSED AT BOTH ENDS		WOOD DECKING
MW1	MASONRY WALL		HANGER
ML1	MASONRY LINTEL	2X4 AT 12" O.C.	JOIST / TRUSS ARROW
MP1	MASONRY PILASTER		OVERBUILD FRAMING, SEE TYPICAL DETAIL
MJ1 (8) #5-48"	MASONRY JAMB		NON- STRUCTURAL STUD WALL
			STUD WALL ABOVE
			LEDGER

NOT ALL SYMBOLS MAY BE USED

SPECIAL INSPECTIONS

SPECIAL INSPECTION INDEPENDENT OF THE CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD SHALL BE PROVIDED BY OWNER ACCORDING TO IBC CHAPTER 17. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. NOT THE SHOP DRAWINGS. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE OWNER, BUILDING OFFICIAL, ARCHITECT, ENGINEER, AND CONTRACTOR FOR CORRECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A BI-WEEKLY AND A FINAL SIGNED REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS, TO THE BEST OF HIS KNOWLEDGE, IN CONFORMANCE WITH THE PLANS, SPECIFICATIONS, AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

POST-INSTALLED ANCHORS (EPOXY, EXPANSION, SCREW)		
VERIFICATION AND INSPECTION	**CONT**	**PERIODIC**
AS APPLICABLE THE INSPECTION PROGRAM SHALL VERIFY: ANCHOR TYPE, EMBEDMENT, TIGHTENING TORQUE, DIMENSIONS, HOLE DEPTH, DIAMETER AND CLEANOUT, EPOXY MIXING, AND PLACEMENT PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CURRENT ICC REPORT (ESR)		■
MASONRY - LEVEL B (TMS 402/ACI 530/ASCE 5)		
VERIFICATION AND INSPECTION	**CONT**	**PERIODIC**
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		■
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. PROPORTIONS OF SITE-PREPARED MORTAR		■
B. CONSTRUCTION OF MORTAR JOINTS		■
C. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		■
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. GROUT SPACE		■
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS		■
C. PLACEMENT OF REINFORCEMENT, CONNECTORS		■
D. PROPORTIONS OF SITE-PREPARED GROUT		■
E. CONSTRUCTION OF MORTAR JOINTS		■
4. VERIFY DURING CONSTRUCTION:		
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		■
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		■
C. WELDING OF REINFORCEMENT	■	
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		■
E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	■	
F. PLACEMENT OF GROUT IS IN COMPLIANCE	■	
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		■

DISCLAIMER

EXISTING CONDITIONS SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE BASED ON DRAWINGS AND/OR INFORMATION PROVIDED TO ES2 BY THE OWNER OR THE OWNER'S DULY AUTHORIZED REPRESENTATIVE. ES2 HAS NOT FIELD VERIFIED THE EXISTING CONDITIONS INFORMATION AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THIS INFORMATION. THE GENERAL CONTRACTOR SHALL NOTIFY ES2 AND THE OWNER IMMEDIATELY IF EXISTING CONDITIONS ARE NOT AS SHOWN ON THE CONSTRUCTION DOCUMENTS.

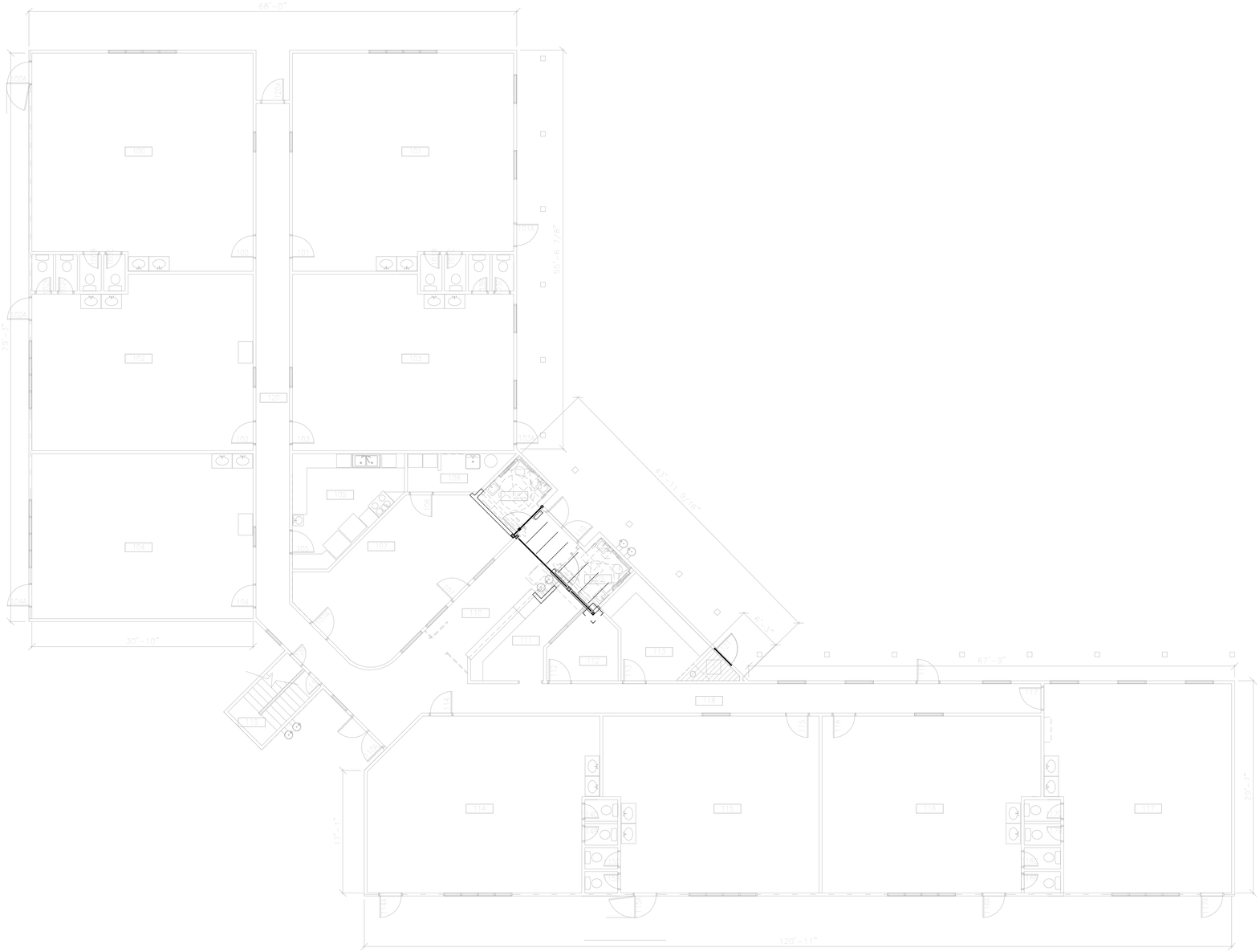
RECORD DRAWING

BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY ENGINEERING SYSTEM SOLUTIONS

DATE: 06/22/2017

STANDARD ABBREVIATIONS

℄	CENTERLINE
(E)	EXISTING
AB	ANCHOR BOLT
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASD	ALLOWABLE STRESS DESIGN
BLDG	BUILDING
BLKG	BLOCKING
BN	BOUNDARY NAILING OR FASTENERS
BO	BOTTOM OF
BOT	BOTTOM
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL



OVERALL FRAMING PLAN VIEW SCALE: 1/8" = 1'-0"

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CITY OF LAS VEGAS NEVADA

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

STAMP

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DRAWN	CJT
FILE	
DATE	01/27/2016
SCALE	
BID NO	
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	S1.1

FOOTING SCHEDULE

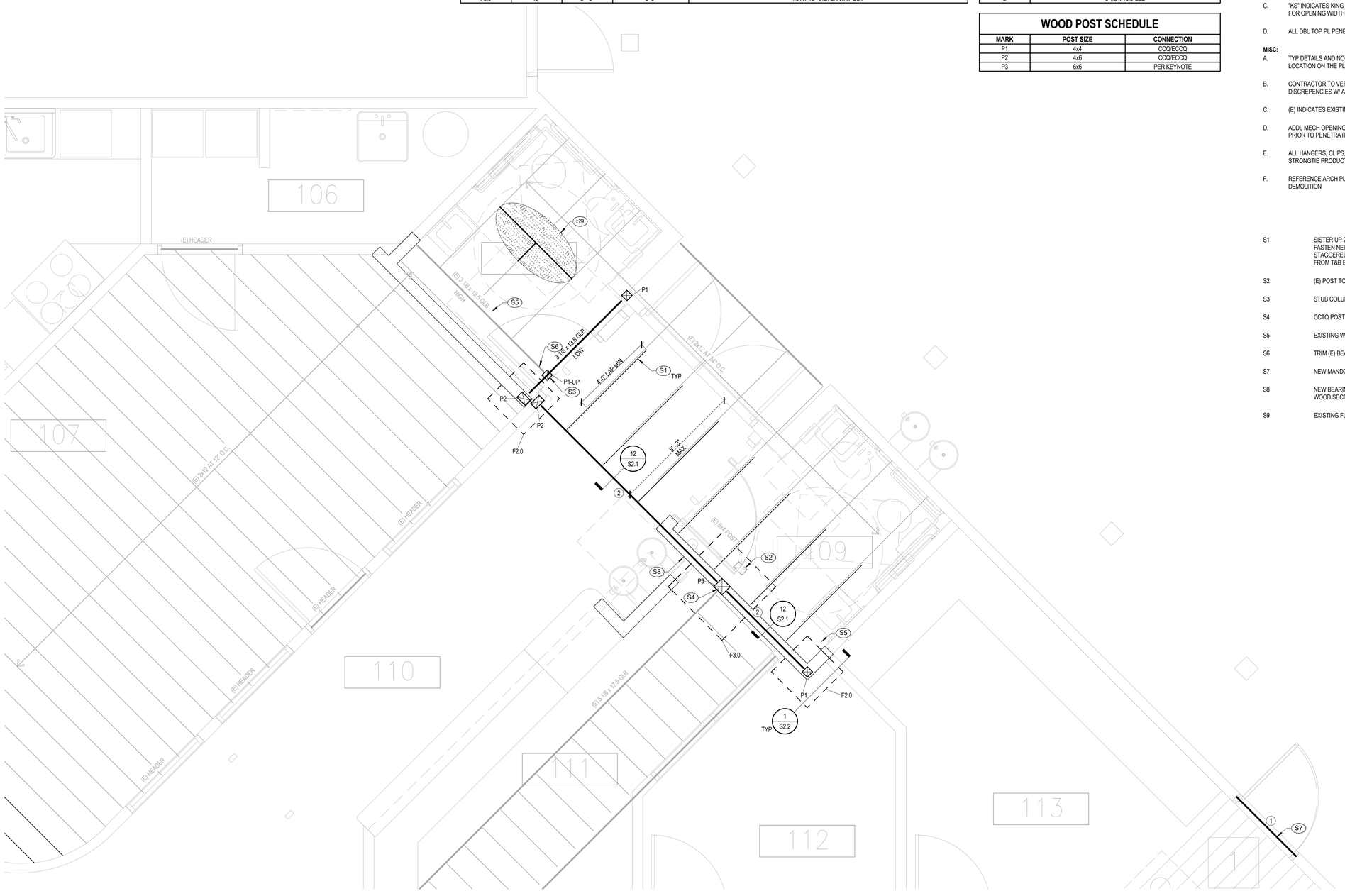
MARK	THICKNESS	WIDTH	FOOTING LENGTH	FOOTING REINFORCING
F2.0	12"	2' - 0"	2'-0"	#5 AT 12" O.C. EA WAY BOT
F3.0	12"	3' - 0"	3'-0"	#5 AT 12" O.C. EA WAY BOT

WOOD BEAM SCHEDULE

MARK	BEAM SIZE
1	4x6
2	3 1/8 x 13.5 GLB

WOOD POST SCHEDULE

MARK	POST SIZE	CONNECTION
P1	4x4	CCQ/ECCQ
P2	4x6	CCQ/ECCQ
P3	6x6	PER KEYNOTE



PARTIAL FRAMING PLAN VIEW SCALE: 1/2" = 1'-0"

FLOOR FRAMING PLAN NOTES

WALLS:

A. 2x6 BEARING WALLS SHALL BE FRAMED AT 16" O.C. UNO.

B. WHERE DBL TOP PL ARE BROKEN, STEPPED, OR PENETRATED W/ PIPES AT THE EXTERIOR WALLS OR INTERIOR SHEARWALLS, CONNECT TOGETHER W/ SIMPSON MSTC40 OR TS22 STRAP, UNO.

C. "KS" INDICATES KING STUD. "TS" INDICATES TRIMMER STUD. 2x6 WALLS: PROVIDE MIN (1) KS AND (1) TS FOR OPENING WIDTH UP TO 6'-0".

D. ALL DBL TOP PL PENETRATIONS SHALL BE PER "TYPICAL HOLE IN DOUBLE TOP PLATE" DETAIL.

MISC:

A. TYP DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON THE PLANS.

B. CONTRACTOR TO VERIFY ALL DIMS AND CONDITIONS PRIOR TO CONSTRUCTION. RESOLVE ANY DISCREPENCIES W/ ARCHITECTS.

C. (E) INDICATES EXISTING STRUCTURE.

D. ADDL MECH OPENINGS IN DECK OR WALLS NOT SHOWN SHALL BE COORDINATED W/ THE ENGINEER PRIOR TO PENETRATING STRUCTURE.

E. ALL HANGERS, CLIPS, AND STRAP CONNECTORS ON THE PLANS AND SHOWN IN DETAIL ARE SIMPSON STRONGTIE PRODUCTS UNO.

F. REFERENCE ARCH PLANS FOR DEMOLITION INFO. ALL ELEMENTS TO BE PROPERLY SHORED PRIOR TO DEMOLITION

KEYNOTES

S1 SISTER UP 2x12 AT EXISTING JOISTS. LAP 4'-0" MIN. EXTEND NEW JOIST AS SHOWN. FASTEN NEW JOIST TO EXISTING JOIST W/ 1/4"ØX3" SDS SCREWS AT 4" O.C., T&B STAGGERED. MIN (24) SCREWS TOTAL PER LAP. LOCATE EA ROW OF SCREWS 1 1/2" FROM T&B EDGE OF JOIST.

S2 (E) POST TO BE REMOVED. TRIM END OF (E) GLULAM BEAM AS NEEDED.

S3 STUB COLUMN WITH CCQ POST CAP TOP AND BOTTOM.

S4 CCTQ POST CAP.

S5 EXISTING WALLS TO BE DEMO'D.

S6 TRIM (E) BEAM AND END IN POST CAP.

S7 NEW MANDOOR OPENING (3'-4" MAX WIDTH).

S8 NEW BEARING WALL PER PLAN NOTE, TYP. ANCHOR BOT PL TO (E) SLAB PER GSN, WOOD SECTION.

S9 EXISTING FLOOR SHEATHING TO REMAIN.

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DATE	01/27/2016
SCALE	
BID NO	
CLV DWG NO	521-301
HANSEN NO	60316
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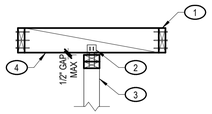
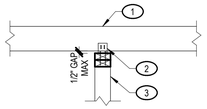


FRAMING PARALLEL TO NON-BEARING WALL



FRAMING PERPENDICULAR TO NON-BEARING WALL

KEYNOTES:

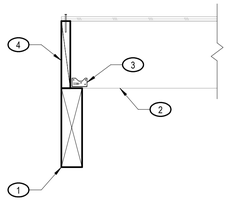
1. TRUSS BOT CHORD, JOIST, OR RAFTER PER PLAN
2. SIMPSON "DTC" TRUSS CLIP AT 24" O.C. MAX W/ (4) 8d COMMON TO PL AND (2) 8d COMMON TO TRUSS CHORD
3. INTERIOR NON-BEARING WALL
4. 2x BLKG W/ (3) 16d EA END

NOTES:

A. NAILS TO TRUSS ARE NOT TO BE DRIVEN TIGHT. TRUSS MUST MOVE FREELY. INSTALL NAIL IN CENTER OF SLOT
B. 2x4 WALL STUDS AT 16" O.C. SHALL HAVE A MAX HT OF 13'-0". 2x6 WALL STUDS AT 16" O.C. SHALL HAVE A MAX HT OF 22'-0"

11 S2.1 NON-BEARING PARTITION WALL CONNECTION

TDW017



KEYNOTES:

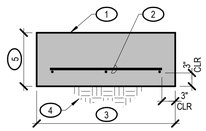
1. BEAM PER PLAN
2. (E) JOIST AND FLR SHEATHING PER PLAN
3. A34 CLIP AT EA JOIST
4. FULL DEPTH BLKG BETWEEN JOISTS. FASTEN TO BEAM W/ A35 CLIP AT 24" O.C.

NOTES:

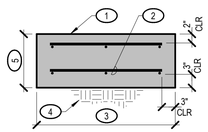
A. ALL ELEMENTS TO BE PROPERLY SHORED PRIOR TO DEMOLITION
B. OTHER FRAMING AS OCCURS, NOT SHOWN FOR CLARITY

12 S2.1 BEAM AT EXISTING JOIST

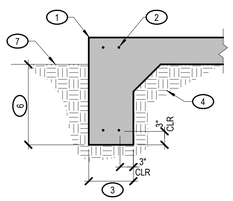
TDW018



FTG W/ BOT STL



FTG W/ T&B STL



TYP TURNED-DOWN FTG

KEYNOTES:

1. CONSTRUCTION ABOVE FOOTING PER PLAN AND FTG DETAILS
2. FTG REINF
3. FTG WIDTH AND/OR LENGTH PER FTG SCHED
4. COMPACTED SUBGRADE PER GSN
5. FTG THICKNESS PER FTG SCHED
6. MIN FTG EMBEDMENT DEPTH PER PLAN
7. T.O. FINAL COMPACTED SUBGRADE

13 S2.1 TYPICAL FOUNDATION

TDC006

7 S2.1 MINIMUM NAILING SCHEDULE

TDW003

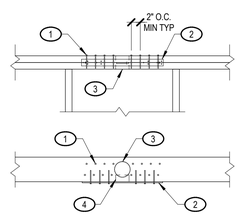
CONNECTION	NAILING
JOIST OR TRUSS BEARING ON PL OR GIRDER, TOENAIL	(3) 16d
BRIDGING TO JOIST, TOENAIL EA END	(2) 8d
SOLE PL TO JOIST OR BLKG, FACE NAIL	16d AT 16" OR 3"-8d AT 8" O.C.
TOP PL TO STUD, END NAIL TO EA STUD	(2) 16d OR (3) 3"-8d
STUD TO SOLE PL	(4) 8d TOENAILS OR (2) 16d END NAILS OR (3) 3"-8d END NAILS
STUD TO 3x SOLE PL, END NAIL	(2) 20d
DBL STUDS, FACE NAIL, UNO	16d AT 24" OR 3"-8d AT 8" O.C.
DBL TOP PL, FACE NAIL, UNO	16d AT 16" OR 3"-8d AT 12" O.C.
TOP PL, LAPS AND INTERSECTIONS, FACE NAIL	(2) 16d OR (3) 3"-8d
CEILING JOISTS TO PL, TOENAIL	(3) 8d
CONT HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d OR (4) 3"-8d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d OR (4) 3"-8d
RAFTER OR TRUSS TO PL, TOE NAIL	(3) 8d
BUILT-UP CORNER STUDS, UNO	16d AT 24" OR 3"-8d AT 16" O.C.
KING STUD/POST TO HEADER	(6) 16d FACE NAIL OR (10) 16d TOE NAIL
KING STUD/POST TO TRIMMER STUD/ POST	16d FACE NAIL AT 24" O.C. OR 16d TOE NAIL AT 12" O.C.
MULTIPLE KING STUDS AND/OR TRIMMER STUDS	16d FACE NAIL AT 24" O.C. OR 16d TOE NAIL AT 12" O.C.

NOTES:

A. MIN NAILING SPECIFIED HERE IN SHALL BE PROVIDED UNO ON PLANS, DETAILS, OR GSN. 8d COMMON NAILS TO BE USED. 16d NAILS MAY BE EITHER COMMON OR SINKER
B. NAILING NOT NOTED OTHERWISE SHALL BE PER IBC TABLE 2304.9.1

8 S2.1 TYPICAL WOOD HEADER AT WOOD POST

TDW008



KEYNOTES:

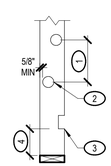
1. FACE NAIL TOP PL TOGETHER W/ (10) 16d MIN EA SIDE OF PENETRATION (OR (6) SDS1/4x3). STAGGER NAILS AND SPACE EVENLY TO AVOID SPLITTING
2. INSTALL (1) SIMPSON RPS18 STRAP ACROSS PENETRAION AT BOTH TOP PL. CENTER STRAP ACROSS PENETRATION AND NAIL PER MFR
3. 2 1/4"Ø MAX HOLE CENTERED IN WALL THROUGH DBL 2x4 TOP PL. 3 1/2"Ø MAX HOLE CENTERED IN WALL THROUGH DBL 2x6 TOP PL
4. 3" WIDE MAX x 1 1/2" DEEP MAX NOTCH MAY BE INSTALLED IN DBL 2x4 TOP PL FOR HVAC LINE SETS IN LIEU OF HOLE PER KEYNOTE 1. NOTCH MAY BE 4" WIDE x 2 1/2" DEEP MAX AT DBL 2x6 TOP PL

NOTES:

A. A MAX 1"Ø HOLE THROUGH 2x4 DBL TOP PL AND 2"Ø HOLE THROUGH 2x6 DBL TOP PL MAY BE INSTALLED W/O THE STRUCTURAL SPECS ABOVE, PROVIDED THAT THE HOLE IS CENTERED IN THE TOP PL WIDTH
B. FOR NOTCHES (OR OVERBORED A. HOLES) UP TO 6 1/2" WIDE x 4 1/4" DEEP AT 2x6 TOP PL, PROVIDE (2) SIMPSON RPS28 STRAPS PER MFR (ONE EA PLATE). ALIGN A STUD AT EA SIDE OF THE NOTCH

9 S2.1 TYPICAL HOLE IN DOUBLE TOP PLATE

TDW013



KEYNOTES:

1. 16" MIN BETWEEN HOLES
2. MAX HOLE DIA SHALL BE 40% OF STUD WIDTH, 60% OF STUD WIDTH IF STUD IS DOUBLED UP TO AND NO MORE THAN (2) SUCCESSIVE DOUBLED-UP STUDS ARE BORED. MAX HOLE DIA SHALL BE 50% FOR A SINGLE STUD W/ A SIMPSON HSS2-SDS1.5 STUD SHOE
3. MAX NOTCH SHALL BE 25% OF STUD WIDTH. MAX NOTCH SHALL BE 50% FOR A DOUBLED-UP W/ A SIMPSON HSS2-2-SDS3
4. NOTCHES SHALL BE LOCATED IN TOP OR BOTTOM 1/4 OF STUD HT ONLY

NOTES:

A. REMAINING WOOD AT HOLE/NOTCH SHALL BE UNDAMAGED
B. HOLES SHALL NOT BE LOCATED WITHIN 2'-0" OF A NOTCH
C. DO NOT OVERCUT NOTCHES

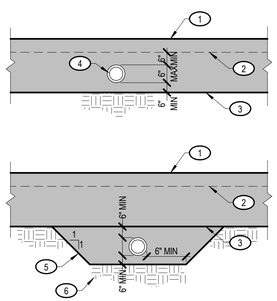
%	2x4	2x6
25%	7/8"	1 3/8"
40%	1 3/8"	2 3/16"
50%	1 3/4"	2 3/4"
60%	2 1/16"	3 1/4"

10 S2.1 TYP HOLE OR NOTCH IN BEARING WALL/STRUCTURAL STUD

TDW015

4 S2.1 TYPICAL SLAB ON GRADE AT SAW CUT AND POUR BACK

TDC012



KEYNOTES:

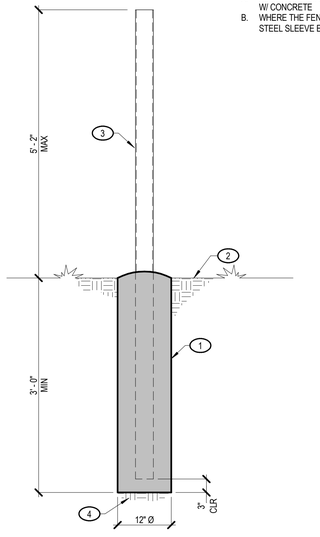
1. TOP OF (E) SLAB
2. BOT OF (E) SLAB/ TOP OF (E) FTG
3. BOT OF (E) FTG
4. UTILITY PIPE W/ SLEEVE AS OCCURS. CORE-DRILL HOLE. NOT TO EXCEED MAX DIM SHOWN.
5. CAST NEW CONC. FTG UNDER (E) FTG WHERE REQ'D.
6. PROPEERLY PREPARED SUBGRADE

NOTES:

A. PRIOR TO CORE DRILLING OPERATION EXISTING REINF SHALL BE LOCATED. (E) REINF SHALL NOT BE DAMAGED DURING CORE-DRILLING OPERATORS.

5 S2.1 UTILITY PIPE AT FOOTING

TDC002



KEYNOTES:

1. CONCRETE POST FOOTING, VERIFY LOCATIONS W/ ARCH. CROWN CONC AT TOP AS SHOWN
2. FINISH GRADE PER ARCH OR CIVIL
3. FENCE POST PER ARCH. EMBED IN FTG AS SHOWN. 10'-0" MAX SPACING
4. COMPACTED SUBGRADE PER GSN

NOTES:

A. ALUMINUM POSTS SHALL NOT BE IN DIRECT CONTACT W/ CONCRETE
B. WHERE THE FENCE POST IS TO BE ALUMINUM, PROVIDE STEEL SLEEVE EMBEDDED IN TO FTG.

6 S2.1 TYPICAL FENCE POST FOOTING

2 S2.1 CONCRETE REBAR LAP SCHEDULE

TDC001

NOTES:

A. VALUES IN TABLE ARE IN INCHES. LENGTHS BASED ON 60 GRADE REINF (NOT COATED) WITH CLASS B LAP SPLICES
B. TOP REINF IS DEFINED AS HORIZ REINF W/ MORE THAN 12" OF CONC BELOW
C. CONC STRENGTH SELECTED IN TABLE SHALL NOT EXCEED DESIGN CONC STRENGTH

REBAR LAP LENGTH SCHEDULE
NORMAL-WEIGHT CONCRETE[C] (145 PCF)

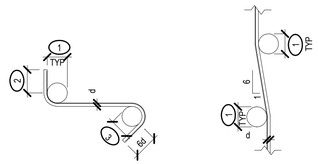
BAR	MIN CLR COVER	MIN BAR SPACING	f'c = 2500 PSI		f'c = 4000 PSI	
			TOP [B]	OTHER	TOP [B]	OTHER
#3	1.5	4.5	20	16	16	12
#4	1.5	4.0	26	20	20	16
#5	1.5	3.8	32	24	26	20
#6	2.0	3.0	46	36	38	28
#7	2.0	3.5	68	52	54	42
#8	2.0	3.0	102	78	82	62
#9	2.0	3.4	116	88	92	70
#10	2.0	3.8	130	100	102	80
#11	2.0	4.2	144	110	114	88

MININUM REINFORCING COVER

STRUCTURAL ELEMENT	COVER	TOLERANCE
FOOTING AND SLAB ON GRADE	3"	3/8"
WALLS (#5 OR SMALLER)	1 1/2"	3/8"
WALLS (#6 OR LARGER)	2"	1/2"
BEAMS AND COLUMNS	1 1/2"	3/8"
ELEVATED SLABS	3/4"	3/8"

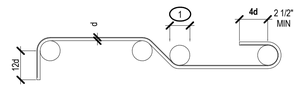
3 S2.1 STANDARD REBAR BENDING DETAILS

TDC004



STIRRUP AND TIE HOOKS

OFFSET BAR



ALL OTHER REINF

KEYNOTES:

1. MIN FINISHED BEND DIA; 8d FOR #3 THRU #8; 10d FOR #9, 10 AND 11; 12d FOR #14 AND #18
2. EXTENSION 6d FOR #5 AND SMALLER, 12d FOR #6 THROUGH #8
3. MIN FINISHED BEND DIA FOR STIRRUPS AND TIES ONLY 5d FOR #5 AND SMALLER 6d FOR #6 THROUGH #8

NOTES:

A. d = BAR DIA
B. ALL REINF SHALL BE BENT COLD UNO ON PLANS OR DETAILS
C. REINF SHALL NOT BE UN-BENT OR RE-BENT

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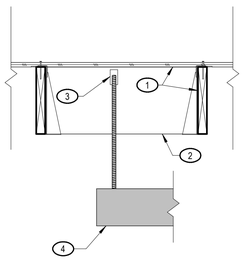


KEYNOTES:

1. JOIST AND FLR SHEATHING PER PLAN
2. FULL DEPTH BLKG W/ HANGER BETWEEN JOISTS.
3. HANGER AND THREADED ROD. INSTALL PER MFR.
4. HOOD PER MECH NOT TO EXCEED 180#.

NOTES:

A. OTHER FRAMING AS OCCURS, NOT SHOWN FOR CLARITY
B. ALT: HANGER AND THREADED ROD TO ATTACH DIRECTLY TO JOIST.

5 S2.2 HOOD SUPPORT DETAIL

MASONRY REINFORCING LAP SCHEDULE

BAR	LAP LENGTH
#3	20"
#4	24"
#5	36"
#6	60"

NOTES:

A. LAP REINF BARS AS SHOWN IN TABLE. STAGGER HORIZ REINF LAP SPLICES A MIN OF 60 BAR DIA (UNO)
B. LENGTHS SHOWN ACCOMODATE A 2 1/2" MIN CLR COVER
C. f'm = 1500 PSI

3 S2.2 MASONRY REBAR LAP SCHEDULE - LRFD

TDM001

KEYNOTES:

1. (2) #5 VERT MIN
2. LAP PER TYP DETAIL "MASONRY REBAR LAP SCHEDULE - LRFD"
3. MASONRY WALL PER PLAN
4. CORNER BARS TO MATCH SIZE AND SPACE OF HORIZ REINF IN WALL

NOTES:

A. GROUT SOLID (5) CELLS AT CORNER
B. 90° CORNER SHOWN, ALSO APPLICABLE AT OTHER CORNER ANGLES

4 S2.2 PLAN - TYPICAL MASONRY CORNER

TDM002

MASONRY

BLOCK

UNITS SHALL BE HOLLOW, NORMAL WEIGHT, LOAD-BEARING UNITS CONFORMING TO ASTM C90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI.

ALL MASONRY UNITS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION WITH ALL VERTICAL CELLS IN ALIGNMENT UNLESS NOTED OTHERWISE.

MORTAR

MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF ASTM C270 AND ASTM C780 FOR FIELD TESTING, PER ASTMC780 UNLESS NOTED OTHERWISE.

GROUT

GROUT SHALL CONFORM TO REQUIREMENTS OF ASTM C476.

SUFFICIENT WATER SHALL BE USED FOR GROUT TO ACHIEVE SLUMP OF 8" - 11" AND TO FLOW INTO ALL CELLS OF THE MASONRY WITHOUT SEGREGATION.

GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.

ALL CELLS IN CONCRETE BLOCK CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT.

HOLD GROUT DOWN 1 1/2" BELOW TOP OF UNIT AT GROUT LIFT JOINTS.

MASONRY COMPRESSIVE STRENGTH

NET COMPRESSIVE STRENGTH OF THE OVERALL MASONRY SYSTEM (MORTAR, UNITS, AND GROUT) SHALL BE f'm=1,500 PSI (TESTED BY PRISM METHOD).

HORIZONTAL REINFORCING

PROVIDE BENT BARS PER TYPICAL DETAILS TO MATCH AND LAP HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY UNLESS NOTED OTHERWISE.

LINTELS

MINIMUM LINTEL SHALL HAVE (2) #5 CONTINUOUS BARS (BOTTOM) AND SHALL BE SOLID GROUTED 48" DEEP.
ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 24" PAST JAMBS UNLESS NOTED OTHERWISE.

VERTICAL REINFORCING

PLACE (2) VERTICAL BARS FULL HEIGHT, (1) EACH FACE IN CELL, AT WALL INTERSECTIONS, CORNERS, WALL OPENINGS, AND AT EACH SIDE OF CONTROL JOINTS.

DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL REINFORCING.

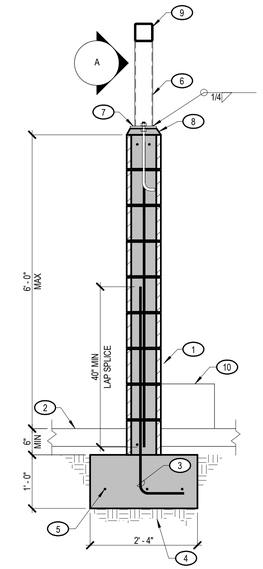
MISCELLANEOUS

LAP REINFORCING BARS PER TYPICAL MASONRY REBAR LAP SCHEDULE.

CONTROL JOINT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT BUT SHALL NOT EXCEED 24'-0" ON CENTER MAXIMUM, UNLESS NOTED OTHERWISE.

1 S2.2 FOUNDATION AT EXISTING SLAB

WC204

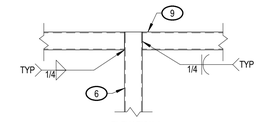


KEYNOTES:

1. 8" THICK MASONRY WALL W/ #5 VERTS AT 16" O.C. CENTERED AND #5 HORIZ AT 48" O.C. MAX W/ (2) CONT #5 AT T.O. WALL SOLID GROUT WALL
2. CIVIL FLATWORK AS OCCURS
3. HOOKED DOWEL TO MATCH AND LAP VERT WALL REINF
4. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
5. (3) #5 CONT
6. HSS 4x2x3/16 POST. LOCATION AND ORIENTATION PER ARCH PLANS. MAX HEIGHT 2' - 0"
7. PL 1/2x6x0' - 10" W/ (2) 5/8"Ø x12" EMBED ANCHOR BOLTS WITH LEVELING NUTS.
8. 1 1/2" MAX HIGH-STRENGTH, NON-SHRINK GROUT.
9. HSS 4x4x3/16 BEAM OR HSS4x2x3/16 BEAM AS OCCURS. SEE ARCH PLAN FOR LOCATION AND LAYOUT
10. CONCRETE CURB PER ARCH PLAN

NOTES:

A. SPECIAL INSPECTION REQ'D DURING ALL MASONRY CONSTRUCTION
B. SOLID GROUT ALL CELLS IN CMU
C. PLACE FIRST BLOCK INTO WET CONC TO RECESS 1/2" MIN, 3/4" MAX



ELEVATION A

2 S2.2 MASONRY TRASH ENCLOSURE WALL

MC108

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DRAWN	CJT
FILE	
DATE	01/27/2016
SCALE	
BID NO	
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	S2.2

GENERAL LANDSCAPING NOTES

1. ALL WORK WITHIN THE PUBLIC RIGHT–OF–WAY OR EASEMENT SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND APPLICABLE PROJECT PERMITS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, COORDINATION, SCHEDULING, UTILITY VERIFICATION AND DAMAGE TO OTHER TRADES AND/OR UTILITIES, AS PER CONTRACT GENERAL CONDITIONS.
3. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND REPORT ANY AND ALL DISCREPANCIES TO THE LANDSCAPE ARCHITECT AND CONSTRUCTION PROJECT REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION. CALL BEFORE YOU DIG 1–800–227–2600.
5. CONTRACTOR SHALL LIMIT WORK AREAS TO THAT SHOWN ON THE DRAWINGS.
6. CONTRACTOR SHALL PERFORM FINISH GRADING MODIFICATIONS TO AREAS REQUIRING GRADING, OR AS DIRECTED BY THE CONSTRUCTION PROJECT REPRESENTATIVE. GRADE AREAS SMOOTH TO MINIMIZE IRREGULARITIES AND LOW SPOTS.
7. ALL EXISTING TREES SCHEDULED TO REMAIN SHALL BE PROTECTED BY AN ORANGE CONSTRUCTION FENCE (4' HIGH) SECURED WITH STEEL T–POSTS AT THE DRIP LINE OF EACH TREE. SUFFICIENT POSTS SHALL BE USED TO MAINTAIN FENCE IN ERECT CONDITION AT ALL TIMES. NO GRADING SHALL COMMENCE WITHOUT CONSTRUCTION FENCING IN PLACE. HAND GRADING ONLY WILL BE ALLOWED WITHIN THE LIMITS OF CONSTRUCTION FENCING. NO MORE THAN 6" OF CUT OR FILL WILL BE ALLOWED WITHIN THE DRIP LINE OF ANY TREE SHOWN TO REMAIN ON THESE CONSTRUCTION PLANS.
8. TO THE MAXIMUM EXTENT FEASIBLE, TOPSOIL, EXISTING PLANTS, LANDSCAPE ROCK, AND OTHER LANDSCAPE FEATURES THAT ARE REMOVED DURING CONSTRUCTION ACTIVITY SHALL BE CONSERVED FOR LATER USE ON AREAS REQUIRING REVEGETATION AND LANDSCAPING. REPLACE ANY SALVAGED BOULDERS SUCH THAT 1/4 OF THE TOTAL MASS OF EACH BOULDER IS BELOW FINISHED GRADE.
9. BEFORE PLACING LANDSCAPE ROCK COMPACT SUB–GRADE TO 85% AND APPLY A PRE–EMERGENT HERBICIDE TO SOIL PER DETAIL ON CIVIL SHEETS.

IRRIGATION GENERAL NOTES:

1. CONTRACTOR TO DESIGN AND PROVIDE IRRIGATION PLAN TO OWNER REPRESENTATIVE FOR REVIEW AND APPROVAL. PLAN SHALL BE BASED ON REQUIREMENTS LISTED IN THE CONTRACT DRAWINGS AND SECTION 328400 OF PROJECT SPECIFICATIONS AND THE LAYOUT AND DETAILS SHOWN ON THE CONTRACT DRAWINGS.
2. IRRIGATION PLAN DESIGNED BY CONTRACTOR SHALL ACCOMMODATE FUTURE STREET TREES ALONG ALTA DRIVE AT 30' O.C. SPACING.
3. CITY STANDARD DETAILS PROVIDED IN THESE PLANS SHALL BE INCORPORATED INTO THE IRRIGATION DESIGN PROVIDED BY THE CONTRACTOR.
4. THE SYSTEM SUPPLY MINIMUM STATIC PRESSURE IS 40 PSI. WHICH THE CONTRACTOR SHALL VERIFY EXISTS AT THE SITE. SHOULD THE PRESSURE BE LESS THAN THIS, NOTIFY THE LANDSCAPE ARCHITECT SO ADJUSTMENTS CAN BE MADE.
5. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION. CALL BEFORE YOU DIG 1–800–227–2600.
6. CONTRACTOR SHALL CAREFULLY STUDY THE DRAWINGS, EXAMINE THE SITE, AND SHALL BE AWARE OF ALL EXISTING WORK AND CONDITIONS THAT COULD POSSIBLY AFFECT THE IRRIGATION WORK.
7. IRRIGATION LAYOUT IS DIAGRAMMATICAL. FOLLOW DRAWINGS AS CLOSE AS POSSIBLE, MAKING NO CHANGES OR ALTERATIONS WITHOUT PRIOR APPROVAL FROM THE CONSTRUCTION PROJECT REPRESENTATIVE.
8. FINAL LOCATION AND ELEVATIONS OF ALL VALVE BOXES, BACKFLOW PREVENTER, CONTROLLER, AND OTHER APPURTENANCES SHALL BE VERIFIED AND APPROVED BY THE CONSTRUCTION PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.
9. MAINLINE PIPE SHALL BE NO LESS THAN 18" BELOW FINISH GRADE. DRIP LATERAL LINES SHALL BE NO LESS THAN 12" BELOW FINISH GRADE. MAIN AND DRIP LATERAL LINES SHALL BE SURROUNDED WITH A MINIMUM OF 4" OF SAND OR ROCK FREE SOIL.
10. MAINLINE PIPE SIZES SHOWN ON DRAWINGS. DRIP LATERAL SIZES ARE AT THE DISCRETION OF THE CONTRACTOR.
11. CONTRACTOR SHALL FURNISH AND INSTALL AN IRRIGATION SYSTEM THAT PROVIDES THE REQUIRED AMOUNT OF GPH TO ALL NEW PLANTINGS. MAINTAIN AND PROVIDE RECORD DRAWINGS AS REQUIRED BY THE CONTRACT DOCUMENTS THAT CLEARLY SHOW ALL INSTALLED IRRIGATION COMPONENTS.

IRRIGATION LEGEND/NOTES:

POINT OF CONNECTION/P.O.C.' T'
Tie Onto Existing Line At Location Shown On Drawings.

GATE / BALL VALVE ⋈
Nibco Series Or Approved Equal– (Line Size). Install At Locations Shown On Drawings Per Detail

QUICK COUPLER VALVE O
Rainbird 44 NP 30 GPM Capacity. Install At Locations Shown On Drawings Per Detail

IRRIGATION CONTROLLER/CCU [A]
Rainbird ESP12–SITE–S Station Controller Pedistal Mount, Outdoor Enclosure. Install At Location Shown On Drawings Per Detail. Connect Controller To building single phase, 120/110 VAC Power Source

AUTOMATIC CONTROL DRIP VALVE ASSEMBLY ⊗
Hunter ICV–101G Control Valve. Rainbird Wye Filter
RBY–100–200MX. Rainbird PRF–100RBY Pressure Regulator.
Install At Locations Shown On Drawings Per Detail

DRIP EMITTERS
SALCO SLV–PS–1 AND SLV–PS–2. Install Emitters On The Uphill Side of The Rootball At Slope Locations. Equally Space The Required Number Of Emitters Around The Perimeter Of The Plant. (At Edge Of Rootball And Beyond For Trees)

DRIP END BALL VALVE •
Flush Laterals And Install Drip End Ball Valves At Approximate Locations Shown On Drawings Per Detail

MAINLINE PIPE — — —
Schedule 40 PVC Pipe, Schedule 80 Fittings.
Pipe Sizes And Locations Shown On Drawings

DRIP LATERAL PIPE — —
Schedule 40 PVC Pipe, Schedule 80 Fittings. Pipe Locations Shown On Drawings Are Diagrammatical. Pipe Installation Routes And Sizes Are At The Discretion Of The Contractor. Size PVC Pipe Adequately, Keeping Friction Loss To A Minimum. This Will Allow Drip Emitters To Operate Within Their Pressure Operating Range. (15 To 50 PSI) Recommended PVC Pipe Sizes Are 3/4" And 1"

DRIP LATERAL HOSE
1/2" SALCO FLEX TUBING, AT PLANT LOCATIONS SHOWN ON DRAWINGS.
CONNECT TO MAIN LATERAL PER DETAIL.
(Drip Lateral Hose Not To Exceed Maximum Length Of 48")

DRIP LINE TUBING
NETAFIM TUBING. Install In Grids Around Trunk Spaced Per Detail.
Providing Additional Rows Of Tubing Until The Required GPH Shown On Detail Are Fulfilled.
Install 2' Below Soil Surface. Place Mulch Cover Over Soil Surface.
Install Flushing Valve At The End(S) Of Every Inline Tubing Zone
Provide Air Relief Valve At Highest Point Of Each Irrigation Zone.

SLEEVES ═ ═
Irrigation Sleeve Locations And Sizes Shown On The Drawings. Schedule 40 PVC Pipe.

CONTROL WIRE
UF–UL 14 Gauge Direct Burial Wire, Install 2 Extra Wires/Valve And One Extra For Mainline Stub. Follow Mainline Piping Where Possible.
Wire Color Shall Be Continuous Over Entire Length. All Splicing Of Wire Shall Occur Within The Valve Box At Valve Locations Using Snap–Tite Wire Connectors. Intermediate Splicing Of Wire Is Not Allowed. Use White For Common Ground Wire. Use Easily Distinguished Colors For Control Wire. Install One (1) Spare (Extra) Wire Looped Through Each Valve Location Spare Wire shall be different from that of active wires.

MAXI CABLE
Add applicable notes

BACKFLOW PREVENTER ▨
Febco Model No 825 YR 1" Reduced Pressure Principle Assembly.
Install in Fiberglass Enclosure At Location Shown on drawing per UDS Std. Plate No. 11A
No water shall be taken from a service requiring backflow prevention until the RPPA has been sucessfully tested.

HYDROSTATIC TEST: UPON COMPLETION OF THE IRRIGATION MAIN AND PRIOR TO THE INSTALLATION OF ANY CONTROL VALVES, TEST THE ENTIRE MAIN OR PORTIONS OF THE MAIN FOR PROPER OPERATION. FLUSH ALL AIR FROM THE MAINS BEING TESTED AND CHECK ALL COMPONENTS FOR PROPER OPERATION. AFTER COMPLETION OF THE FLUSHING OPERATION, TEST THE MAIN LINES WITH 150 PSI HYDROSTATIC PRESSURE FOR A MINIMUM OF 2 HOURS. AFTER THE PRESSURE WITHIN THE MAINS HAS STABILIZED, NO PRESSURE LOSS WILL BE ALLOWED FOR THE TEST PERIOD. REMOVE AND/OR REPLACE ANY ITEM OR COMPONENT OF THE SYSTEM WHICH DOES NOT COMPLY WITH THE TEST, AND TEST THE ENTIRE SYSTEM AGAIN UNTIL SATISFACTORY TEST RESULTS ARE OBTAINED. CONTRACTOR SHALL REQUEST OBSERVATION BY THE CONSTRUCTION PROJECT REPRESENTATIVE 48 HOURS PRIOR TO TESTING. THE TEST SHALL BE MADE IN THE PRESENCE OF THE CONSTRUCTION PROJECT REPRESENTATIVE, SIGNED AND DATED.

CONSTRUCTION PROJECT REPRESENTATIVE _____ DATE _____

COVERAGE OBSERVATION: UPON COMPLETION OF THE IRRIGATION SYSTEM, CONTRACTOR SHALL PERFORM A COVERAGE TEST WITH THE CONSTRUCTION PROJECT REPRESENTATIVE PRESENCE ON ALL COMPONENTS OF THE SYSTEM TO VERIFY 100% COVERAGE. THE CONTRACTOR SHALL PERFORM ALL WORK AND FURNISH ALL MATERIALS NECESSARY TO CORRECT ANY INADEQUACIES AND ADJUST EMITTERS AS REQUIRED.

CONSTRUCTION PROJECT REPRESENTATIVE _____ DATE _____

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

CITY OF LAS VEGAS NEVADA

REVISIONS

CONSULTANT
Stanley Consultants INC.
5820 SOUTH EASTERN AVENUE, SUITE 200
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FAX: (702) 369-9793

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
LANDSCAPE NOTES
IRRIGATIONS NOTES AND LEGEND

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY HELENA MURVOSH, P.E. NO. 016830 ON 4/28/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
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PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	L1.01

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ALTA DR (PUBLIC)

DESERT LN (PUBLIC)

NORTH

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

DRIP END BALL VALVE (TYP)

3/4" PVC (TRO)

2-1/2" SLEEVE

EXISTING SLEEVES

3/4" PVC (TREE)

3/4" PVC (SHRUB)

3/4" PVC (TRO)

END 1 1/2" PVC; START 3/4" PVC (SHRUB AND TREE)

NETAFIRM END FEED LAYOUT (TYP), PER DETAIL L1.04

NETAFIRM END FEED LAYOUT (TYP), PER DETAIL L1.04

1 1/2" PVC MAIN; CAP END IN ROUND BOX

3/4" PVC (TRO)

1 1/2" PVC (MAIN)

1 1/2" PVC IN 2-1/2 SLEEVE (MAIN, SHRUB AND TREE)

1 1/2" PVC (MAIN)

APPROX. POINT OF CONNECTION

IRRIGATION WIRES

GROUNDING ROD

3/4" PVC (SHRUB)

1 1/2" PVC (TREE)

INSTALL QUICK COUPLER, PER DETAIL SHEET L1.03

INSTALL SITE SATELLITE CONTROLLER. CONNECT CONDUIT FROM SITE SATELLITE CONTROLLER TO TELEPHONE TERMINAL AND ELECTRICAL SERVICE PANEL, PER SPEC 328400 SEC 2.16

2-1/2" SLEEVE

3/4" PCV (FROM TREE) IN 1-1/2" SLEEVE (TYP EA. DPV)

2-1/2" SLEEVE

END 1 1/2" PVC; START 3/4" PVC (SHRUB AND TREE)

3/4" PVC (SHRUB)

3/4" PVC (TREE)

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

KENYON PL (PUBLIC)

NOTE:

1. THE IRRIGATION LAYOUT SHOWN ON THIS PLAN IS DIAGRAMMATICAL. IT SHOWS THE NUMBER OF REQUIRED IRRIGATION LINES AND VALVES FOR THE IRRIGATION PLAN. IT SHALL BE USED AS A BASIS OF DESIGN FOR THE IRRIGATION PLAN SUBMITTED BY THE CONTRACTOR FOR APPROVAL. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL ITEMS ON THE IRRIGATION PLAN THAT ARE DEEMED NECESSARY TO PROVIDE A COMPLETE DESIGN.
2. "MAIN" INDICATES MAINLINE
   "TRO" INDICATES MAIN LATERAL FOR TEXAS RED OAK IRRIGATION
   "TREE" INDICATES MAIN LATERAL FOR ALL OTHER TREE IRRIGATION
   "SHRUB" INDICATES MAIN LATERAL FOR SHRUB IRRIGATION

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

IRRIGATION PLAN

STAMP

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DATE	03/23/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	L1.02

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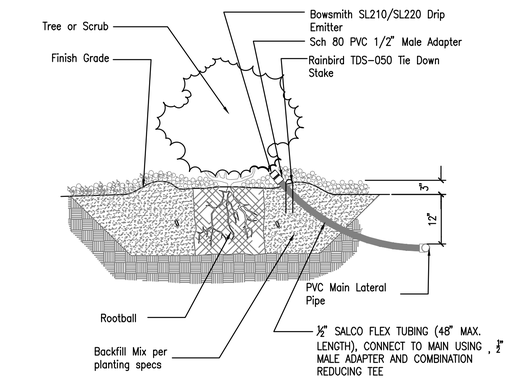
DETAILS SHOWN ON THIS PAGE ARE THE CITY OF LAS VEGAS' STANDARD IRRIGATION DETAILS, WHICH ARE REQUIRED FOR USE ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND REFERENCE THE APPROPRIATE DETAIL ON THE IRRIGATION PLAN THAT IS SUBMITTED FOR APPROVAL. AS PART OF THE SUBMITTED DESIGN, THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL INFORMATION OR ADDITIONAL DETAILS DEEMED NECESSARY TO PROVIDE A COMPLETE DESIGN ON THE IRRIGATION PLAN. THE ENGINEER IS NOT RESPONSIBLE FOR ANY INFORMATION CONTAINED IN THESE STANDARD IRRIGATION DETAILS OR FOR ANY USE MADE OF THESE BY THE CONTRACTOR.

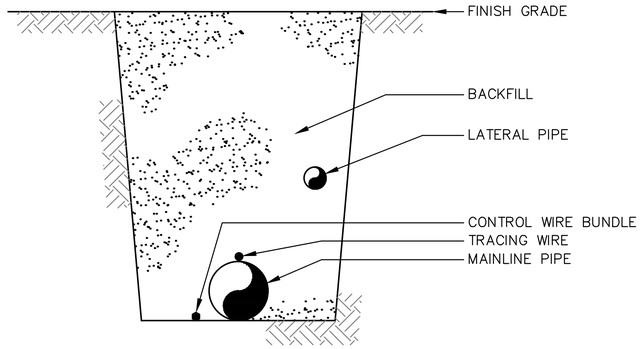
EMITTER QUANTITY

Plant Size	QTY	GPH.
5 GAL.	2	1

NOTE:
Install Emitters On The Uphill Side of the Rootball at Slope Locations. Equally Space The Required Number of Emitters Around The Perimiter of the Tree or Scrub at Edge of Rootball.

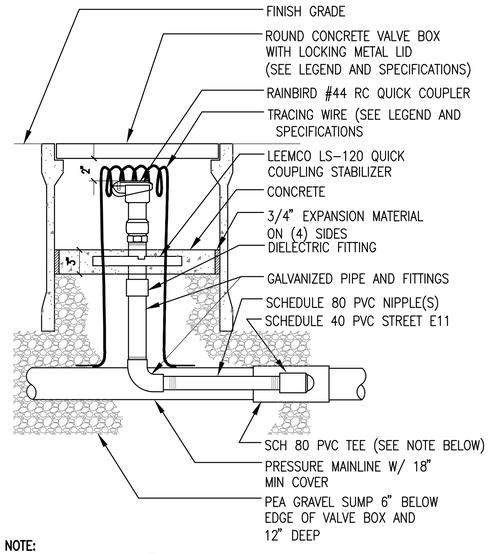


SHRUB EMITTER
SCALE: NTS 32-02



NOTE:
1. REFER TO IRRIGATION SPECIFICATIONS FOR COVERAGE DEPTH TO BURIED PIPE AND WIRE.
2. REFER TO SPECIFICATIONS FOR THRUST BLOCK SIZING ON MAINLINE SIZES 3" AND LARGER.

TRENCH DETAIL
SCALE: NTS

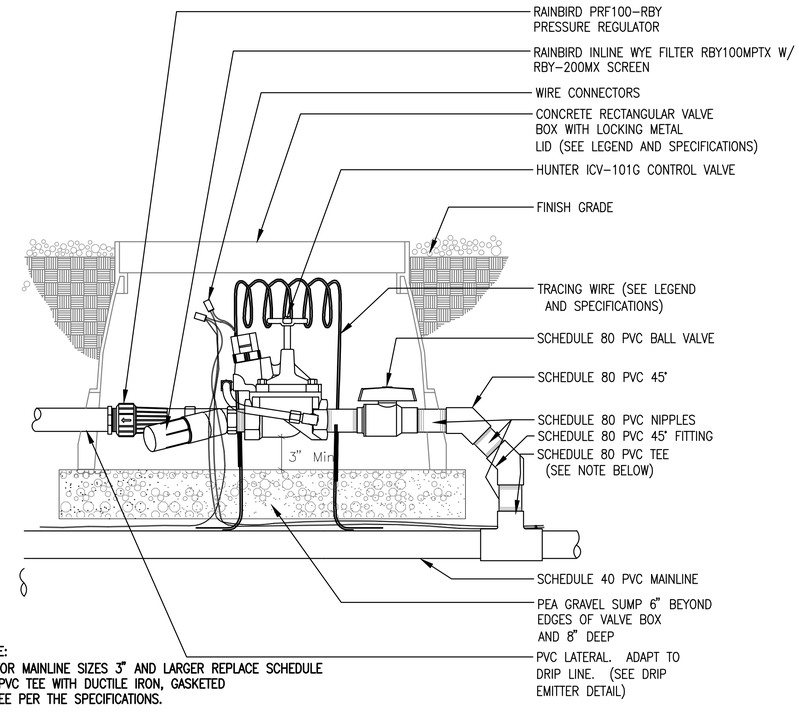


NOTE:
1. FOR MAINLINE SIZES 3" AND LARGER REPLACE SCHEDULE 80 PVC TEE WITH DUCTILE IRON, GASKETED TEE PER THE SPECIFICATIONS.

QUICK COUPLER DETAIL
SCALE: NTS

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

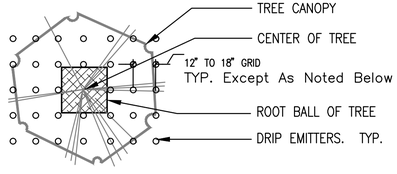
DATE: 6/22/2017



NOTE:
1. FOR MAINLINE SIZES 3" AND LARGER REPLACE SCHEDULE 80 PVC TEE WITH DUCTILE IRON, GASKETED TEE PER THE SPECIFICATIONS.

CONTROL VALVE
SCALE: NTS

NOTES:
1. THIS IS A SUGGESTED EMITTER LAYOUT PLAN. ACTUAL LAYOUT MAY VARY DEPENDING ON SURROUNDING FEATURES. THE INTENT IS TO PROVIDE WATER FOR FUTURE ROOT GROWTH.
2. ADJACENT TREES AND SHRUBS MAY SHARE THE SAME EMITTER WHERE PATTERNS OVERLAP.
3. BEGIN PLACEMENT OF EMITTERS ADJACENT TO ROOT BALL OF THE TREE AND WORK OUTWARD IN ALL DIRECTIONS UNTIL THE REQUIRED NUMBER OF EMITTERS IS OBTAINED. WHERE LARGE TREES ARE INSTALLED IN NARROW PLANTERS REDUCE THE QUANTITY OF EMITTERS TO FIT THE SPACE. 4'-0" SQUARE PLANTERS ONLY NEED FOUR EMITTERS. KEEP ALL EMITTERS 18" FROM ANY CURB, WALK OR OTHER PLANTER EDGE AND 36" FROM ANY BUILDING OR STRUCTURE.

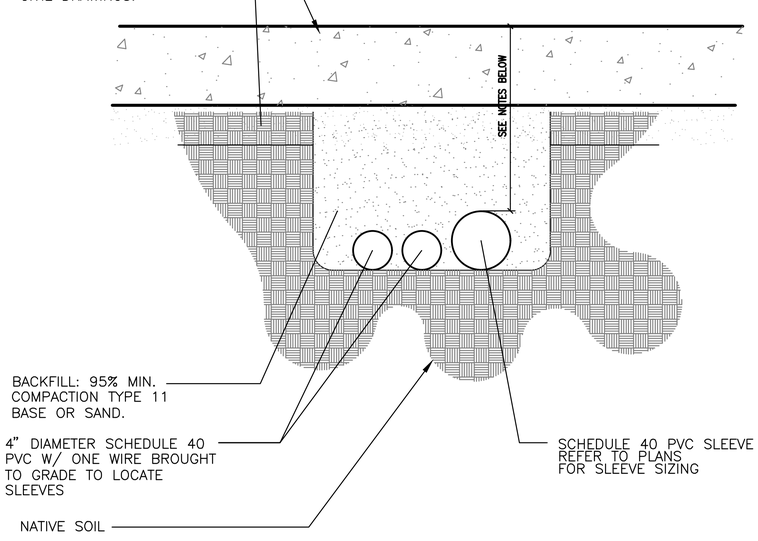


EMITTER QUANTITIES

TREE SIZE	QUANTITY	GPH *
24" BOX	8	2
36" BOX	10	2

* QUERCUS BUCKLEY: USE 24" SPACED GRID AND 0.6 GPH/EMITTER

TREE EMITTER LAYOUT
SCALE: NTS



NOTE:
1. REFER TO SPECIFICATIONS FOR COVERAGE DEPTH TO BURIED SLEEVE OR CONDUIT.

SLEEVE DETAIL
SCALE: NTS

CITY OF LAS VEGAS
NEVADA

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

IRRIGATION DETAILS

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DRAWN	MJS
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CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	L1.03

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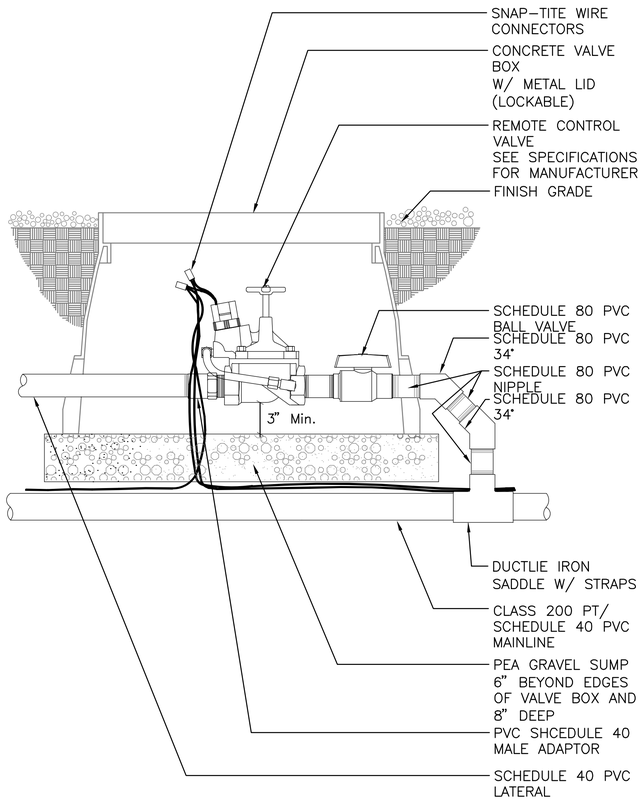
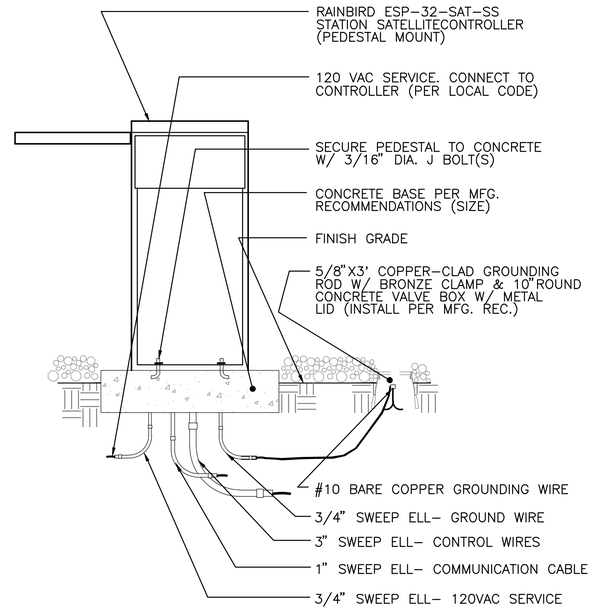


REMOTE CONTROL VALVE

SCALE: N.T.S. L3-06

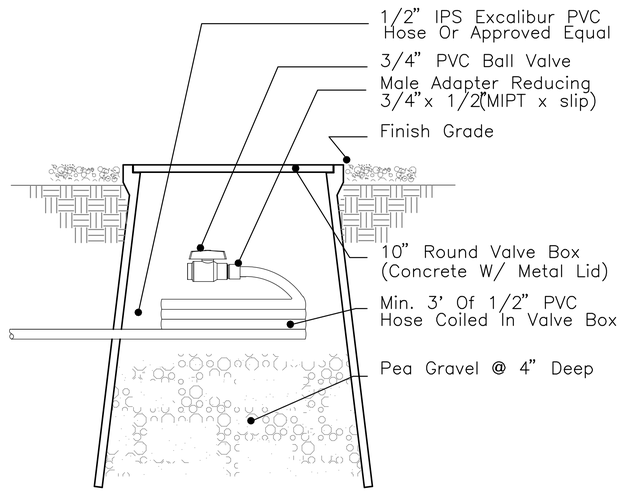


NOTES:

- CONTRACTOR TO GROUND AND PROVIDE SURGE PROTECTION FOR FIELD SATELLITE UNIT IN ACCORDANCE W/ MANUF. RECOMMENDATIONS AND GROUND ROD SHOWN. CONTRACTOR SHALL INSTALL A 20 AMP NON-FUSED DISCONNECT AND 120V DUPLEX RECEPTACLE. INSIDE PEDESTAL.
- INSTALL CONTROLLER PER MFG. PRINTED INSTRUCTIONS AND PER LOCAL CODES. LOCATION SHOWN ON DRAWINGS OR APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

STATION SATELLITE CONTROLLER

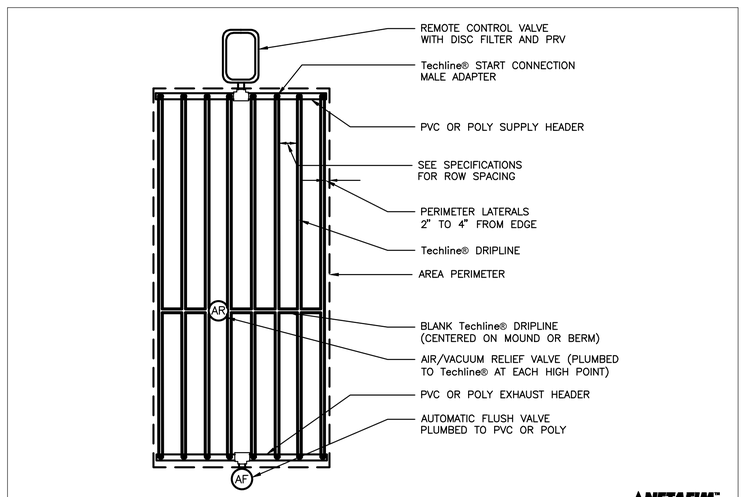
SCALE: N.T.S. L3-03



NOTE: Connect 1/2" IPS Excalibur PVC Hose To Drip Lateral PVC Pipe With The Appropriate Fittings At The End Of All Drip Lateral Runs.

DRIP END BALL VALVE

SCALE: N.T.S.



00 Techline® END FEED LAYOUT

NOT TO SCALE DETAIL - A101

NETAFIM

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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ALTA DAYCARE UPGRADES

IRRIGATION DETAILS

STAMP

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OWNER: CITY OF LAS VEGAS DEPARTMENT OF PUBLIC WORKS

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DRAWN	MJS
FILE	
DATE	03/23/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521.301
HANSEN NO	60316
SHT NO	L1.04

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PLANTING NOTES

1. INSTALL A 2" LAYER OF DECOMPOSED GRANITE CONTINUOUS IN ALL PLANTERS UNDER ALL TREES AND SHRUBS. AFTER PLACING RAKE SMOOTH, WET TO ENTIRE DEPTH, ALLOW TO DRY. APPLY A SECONDARY APPLICATION OF PRE-EMERGENT HERBICIDE TO TOP OF LANDSCAPE ROCK. KEEP TOP OF ROCK 1" BELOW ADJACENT WALKS AND CURBS. DO NOT ALLOW ROCK TO TOUCH THE TRUNK OF ANY PLANT. INSTALL AFTER INSTALLATION OF PLANT MATERIAL.
2. ALL MULTI-TRUNK TREES ARE TO HAVE 3 TO 4 TRUNKS. THE LOWEST HORIZONTAL BRANCHING PATTERN (CLEAR STEM HEIGHT) FROM ANY TRUNK ON ONE TREE SHALL BE A MINIMUM OF 30" FROM FINISH GRADE.
3. LAYOUT OF PLANT MATERIAL IN PLANTING AREAS SHALL BE APPROVED BY THE CONSTRUCTION PROJECT REPRESENTATIVE PRIOR TO INSTALLATION. COORDINATE THESE AREAS WITH IRRIGATION LAYOUT. ALL TREE AND SHRUB LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE CONSTRUCTION MANAGER.
4. PLANTS SHALL BE INSTALLED IMMEDIATELY UPON DELIVERY TO SITE, IF THIS IS NOT POSSIBLE, PLANTS SHALL BE HEALED IN AND WATERED TO PREVENT DEHYDRATION.
5. PLANTS SHOULD BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING, ALLOWING WATER TO SOAK DOWN AND FILL REMAINDER OF HOLE WITH LOOSE SOIL. WITHOUT FURTHER PACKING, A MOUND OF SOIL SHALL BE FORMED AROUND THE EDGE OF EACH TREE PIT TO FORM A SHALLOW SAUCER.
6. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH AAN (AMERICAN ASSOCIATION OF NURSERYMEN) SPECIFICATIONS FOR NUMBER ONE GRADE.
7. STAKE TREES ONLY WHEN NEEDED.
8. PLANT QUANTITIES ARE FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY.
9. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
10. MINOR CHANGES IN SPECIES AND PLANT LOCATIONS MAY BE MADE DURING CONSTRUCTION AS REQUIRED BY SITE CONDITIONS OR AVAILABILITY. OVERALL QUALITY AND DESIGN CONCEPT TO BE CONSISTENT WITH APPROVED LANDSCAPE PLANS. ANY CHANGES WILL BE PROVIDED TO CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL.
11. SEE DETAILS AND SPECIFICATIONS FOR PLANTING PROCEDURES.
12. TILL NATIVE SOIL TO A DEPTH EQUAL TO THE ROOTBALL DEPTH, REMOVE ROCKS LARGER THAN 1 1/2 " DIA. ADD AMENDMENTS PER SOIL MIX NOTE BELOW.

QUERCUS BUCKLEYI SHALL BE LOW BRANCHING, SEE ADDITIONAL NOTES ON SHEET L1.01.

SOIL MIX NOTE

SOIL MIX NOTE:
SOIL MIX: BACKFILL MIX FOR ALL TREES AND SHRUBS TO BE THOROUGHLY MIXED IN THE TILLED NATIVE SOIL AREA OF THE PLANTING HOLE AND CONSIST OF THE FOLLOWING:
- 8 PARTS BY VOLUME ONSITE SOIL (NO PARTICLE OVER 1 1/2" DIA.)
- 2 PARTS BY VOLUME COMPOST SOIL ADDITIVE

AFTER PLANT INSTALLATION, EVENLY BROADCAST THE FOLLOWING AMENDMENTS OVER THE TILLED NATIVE SOIL AREA AROUND THE ROOTBALL OF THE PLANS AND WORK INTO THE TOP 2" OF SOIL:
- 1 LB 15-15-15- FERTILIZER PER 25 SQ FT OF TILLED SURFACE AREA
- 2 LBS IRON SULFATE PER PER 25 SQ FT OF TILLED SURFACE AREA

QUERCUS BUCKLEYI

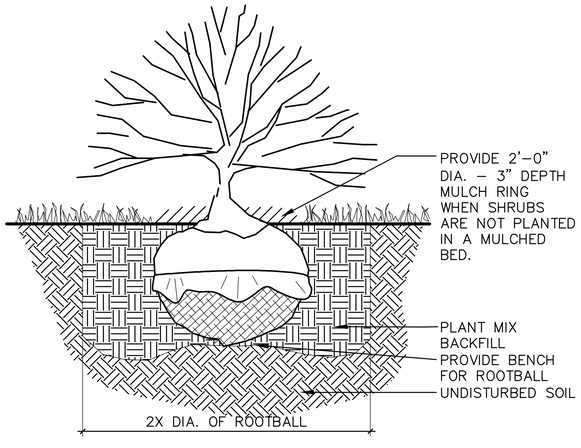
1. TREES TO BE LOW BRANCHING.
2. BACKFILL SHALL CONSIST OF A MINIMUM OF 25% ORGANIC MATTER, EVENLY DISTRIBUTED.
3. IRRIGATION TO BE 0.6 GPH EMITTERS WITH NETAFIM GRID AT 24" SPACING
4. NO COMPACTION WITHIN 3' OF TRUNK

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

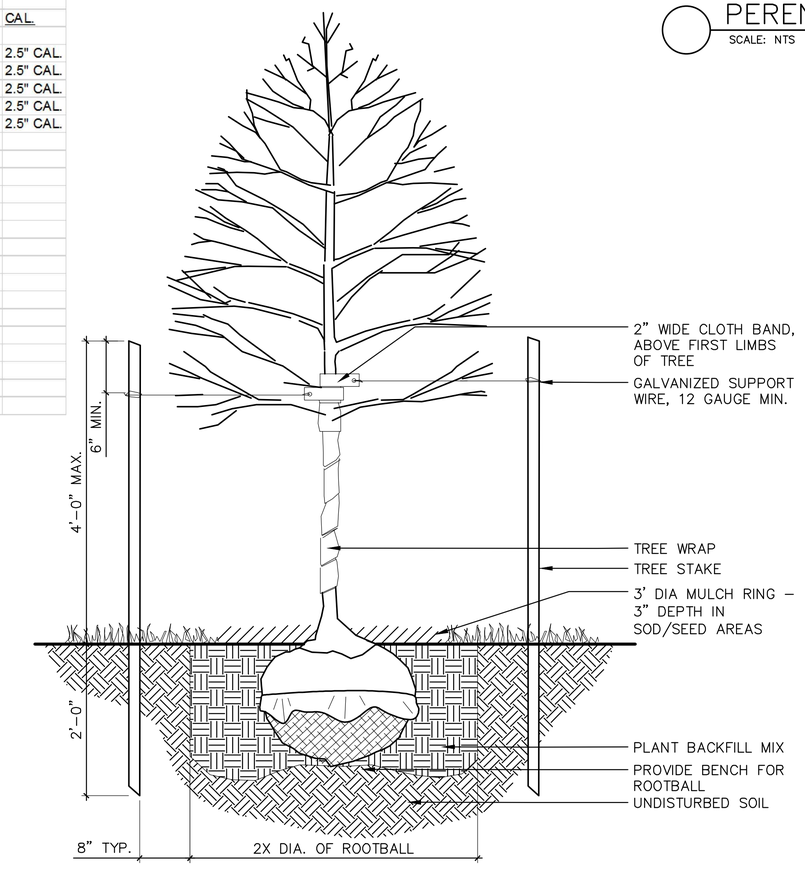
DATE: 6/22/2017

PLANT SCHEDULE

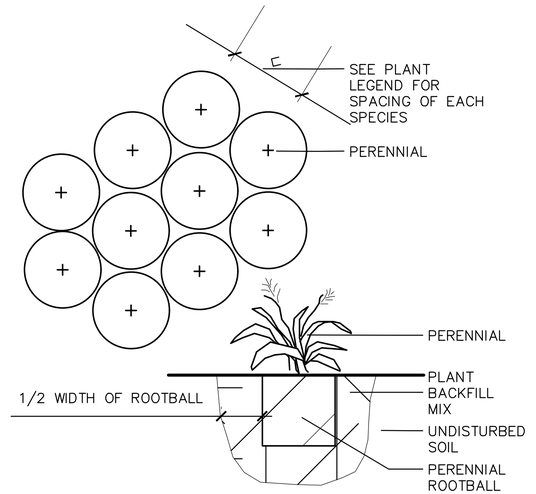
QTY	CODE	COMMON NAME	SCIENTIFIC NAME	SIZE	COND.	CAL.
TREES						
3	CHT	CHASTE TREE	VITEX AGNUS-CASTUS	24" BOX	BOX	2.5" CAL.
2	DPV	DESERT MUSEUM PALO VERDE	CERCIDIUM 'DESERT MUSEUM'	24" BOX	B&B	2.5" CAL.
3	ORC	ORCHID TREE	BAUHINIA LUNAROIDES	24" BOX	B&B	2.5" CAL.
7	TRO	TEXAS RED OAK	QUERCUS BUCKLEYI	24" BOX	B&B	2.5" CAL.
3	WMP	WINDMILL PALM	TRACHYCARPUS FORTUNEI	24" BOX	B&B	2.5" CAL.
DECIDUOUS SHRUB						
7	CBW	CALIFORNIA BUCKWHEAT	ERIOGONUM FASCICULATUM	5 GAL.	CONT.	
6	JRS	JERUSALEM SAGE	PHLOMIS FRUTICOSA	5 GAL.	CONT.	
2	LTR	LYNN'S LEGACY TEXAS RANGER	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY'	5 GAL.	CONT.	
6	RBP	RED BIRD OF PARADISE	CAESALPINIA PULCHERRIMA	5 GAL.	CONT.	
5	SWB	SWEET BUSH	BEBBIA JUNCEA	5 GAL.	CONT.	
EVERGREEN SHRUB						
4	GGJ	GRAY GLEAM JUNIPER	JUNIPERUS SCOPULORUM 'GRAY GLEAM'	5 GAL.	CONT.	
12	VEB	VALENTINE EMU BUSH	EREMOPHILA MACULATA 'VALENTINE'	5 GAL.	CONT.	
PERENNIAL / GRASS						
4	BES	BLACK EYED SUSAN	RUDBECKIA HIRTA	1 GAL.	CONT.	
24	BFD	BLACK FOOT DAISY	MELAMPODIUM LEUCANTHUM	1 GAL.	CONT.	
16	PMG	REGAL MIST MUHLY GRASS	MUHLENBERGIA CAPILARIS 'REGAL MIST'	1 GAL.	CONT.	



SHRUB PLANTING
SCALE: NTS PLNT-SHRB

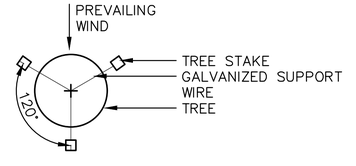


DECIDUOUS TREE PLANTING
SCALE: NTS PLNT-TREE-DECI



PERENNIAL PLANTING
SCALE: NTS PLNT-PERN

NOTES:
1. TREES SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE 3" AT THE TOP OF THE ROOT BALL. TREES THAT DO NOT HAVE VISIBLE TRUNK FLARE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
2. IN THE FALL WRAP ENTIRE SURFACE OF TRUNK TO SECOND BRANCH WITH APPROVED TREE WRAP. SECURE AT 2" INTERVALS. DO NOT WRAP POPULUS SPECIES. SUPPORT WIRE TO BE GALVANIZED. ATTACH TO TREE WITH 2" CLOTH BAND OR APPROVED EQUAL ABOVE FIRST BRANCH.
3. STAKE TREES (2" CAL AND LARGER) AS SHOWN WITH 6' LONG WOOD OR PEELED POLE STAKES. STAKES AT 120 DEGREES. EXTEND STAKE 2'-0" INTO GROUND. POSITION OF STAKES TO BE ORIENTED WITH REGARD TO PREVAILING WINDS.
4. FOLD BACK WIRE, WIRE BASKETS, NYLON TIES, TWINE, ROPE AND BURLAP ⅓ MINIMUM FROM TOP AND SIDES OF ROOT BALL. REMOVE UNNECESSARY PACKING MATERIAL.
5. PLACE A 3'-0" DIA. MULCH COLLAR WHEN TREES ARE PLANTED IN SOD. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. PROVIDE 3" PLANTING RIM AROUND MULCH WHEN PLANTED IN NATIVE SEED AREA.
6. DO NOT CUT CENTRAL LEADER. PRUNE ONLY DEAD OR DAMAGED WOOD PRIOR TO PLANTING.



STAKING PLAN

CITY OF LAS VEGAS
NEVADA

REVISIONS

CONSULTANT

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

PLANT SCHEDULE, LANDSCAPE DETAILS

STAMP

THIS DRAWING WAS ORIGINALLY STAMPED BY MARK KOPATZ, R.L.A. NO. 840 ON 3/28/2016

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DEPARTMENT OF PUBLIC WORKS

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ALTA DR (PUBLIC)

NORTH

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

DESERT LN (PUBLIC)

CRUSHER FINES, TYP.
SEE DETAIL 5 SHEET C4.03

1/4" MINUS DG PINK CORAL
STONE TO MATCH EXISTING, TYP.
SEE DETAIL 4 SHEET C4.03

LANDSCAPE EDGING

EXISTING TREE

5 VEB
1 CHT
4 CBW

4 TRO
1 VEB
3 CBW

1/4" MINUS DG PINK CORAL
STONE TO MATCH EXISTING, TYP.

3 TRO
3 SWB

2 LTR
2 SWB

2 RBP
1 ORC
8 BFD
2 GGJ

1 WMP

1 ORC
8 BFD
2 GGJ

2 WMP

3 JRS
4 BES

3 JRS
1 DPV

INSTALL 4'X4' TREE
GRATE MODEL NO.
R-87061A 180 DEGREE
SQUARE BY NEENAH
FOUNDRY (TYP)

3 VEB

8 PMG
1 ORC

MIRACLE RECREATIONAL EQUIPMENT
TOT PLAYGROUND OR EQUIVALENT
SEE SHEET L3.01

INSTALL SITE SATELLITE CONTROLLER.
CONNECT CONDUIT FROM SITE SATELLITE
CONTROLLER TO TELEPHONE TERMINAL
AND ELECTRICAL SERVICE PANEL, PER
SPEC 328400 SEC 2.16

SYNTHETIC TURF, TYP.

SYNTHETIC
TURF, TYP.

ALTERNATIVE: 16' x 35' HIP ROOF SHELTER
WITH SHADE FABRIC PER SPECIFICATIONS

POURED-IN-PLACE RUBBER
PLAYGROUND SURFACE
PER DETAIL 3 SHEET C4.03

EXISTING
SHADE STRUCTURE

20' x 24' HIP ROOF SHELTER WITH
SHADE FABRIC PER SPECIFICATIONS

SYNTHETIC
TURF, TYP.

1 DPV
4 RBP

1 ORC
8 PMG
3 VEB

POURED-IN-PLACE RUBBER
PLAYGROUND SURFACE
PER DETAIL 3 SHEET C4.03

KENYON PL (PUBLIC)

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

LANDSCAPE PLAN CHECKLIST

1617 Alta Drive

North Property Line Landscape Buffer

Trees-Species/Type	Quantity	Size	Installed Y/N
Texas Red Oak	7	24" box	

Shrubs-Species/Type	Min. Quantity	Size	Installed Y/N
Sweet Bush	4 five gallon shrubs per shade tree		
Valentine EMU Bush			
Red Bird of Paradise			

East Property Line Landscape Planter

Trees-Species/Type	Quantity	Size	Installed Y/N
Desert Museum Palo Verde	2	24" box	
Orchid Tree	2	24" box	

Shrubs-Species/Type	Min. Quantity	Size	Installed Y/N
Sweet Bush	4 five gallon shrubs per shade tree		
Valentine EMU Bush			
Red Bird of Paradise			

INSPECTOR SIGNATURE

DATE

Building Permit No.CLV No. 63325

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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ALTA DAYCARE UPGRADES

LANDSCAPE PLAN

STAMP

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WAS ORIGINALLY
STAMPED BY
MARK KOPATZ,
R.L.A. NO. 840
ON 3/28/2016

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SHT NO	L2.02

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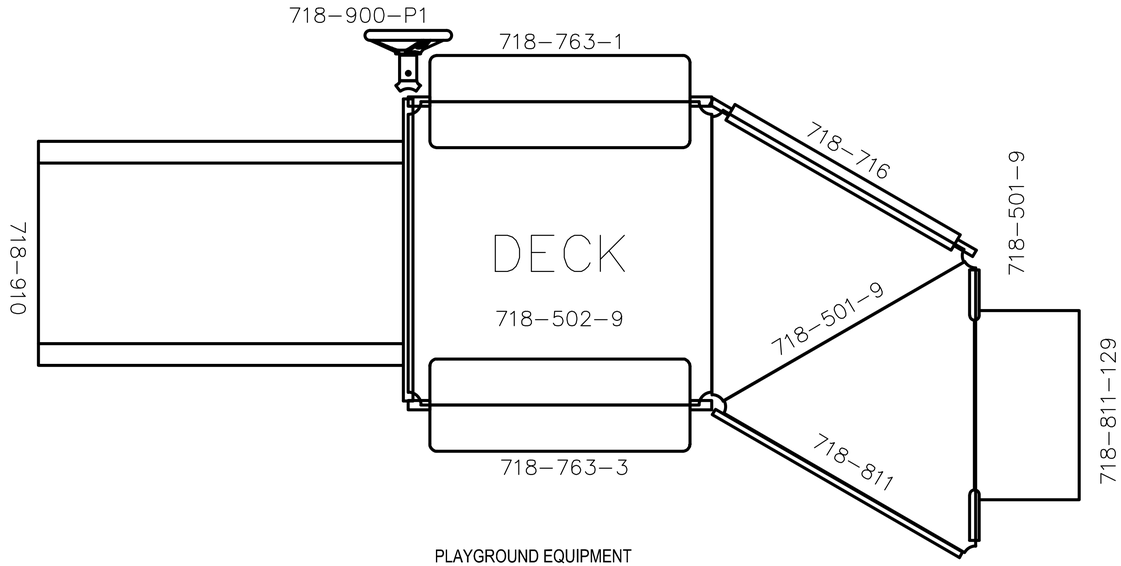

PLAYGROUND EQUIPMENT

1. CONTRACTOR SHALL USE A MIRACLE RECREATION EQUIPMENT COMPANY TOTS CHOICE STRUCTURE MODEL NUMBER 718-S050J, OR AN APPROVED EQUAL.
2. CONTRACTOR SHALL INSTALL THE PLAYGROUND COMPONENTS (MIRACLE RECREATION EQUIPMENT COMPANY COMPONENT NUMBER 718-XXX-XXX) SHOWN IN THESE PLANS, OR AN APPROVED EQUAL.
3. THE COLOR SHALL MATCH COLORS SHOWN IN THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL INSTALL THE PLAYGROUND EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH WAS NOT FIELD VERIFIED BY STANLEY CONSULTANTS, INC.

DATE: 6/22/2017

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

PLAYGROUND EQUIPMENT

REVISIONS

CONSULTANT

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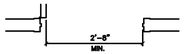
ABBREVIATIONS

#	Pound Or Number	H.C.	Hollow Core
#	Number	H.M.	Hollow Metal
&	And	HDWD.	Hardwood
@	At	HDWE.	Hardware
A.B.	Anchor Bolt	HGT.	Height
A.C.	Asphalt Concrete	HORIZ.	Horizontal
A.D.	Area Drain	HR.LD.	Hour
A.F.F.	Above Finish Floor	INSUL.	Inside Diameter
A.F.G.	Above Finish Grade	INT.	Insulation
A.F.S.	Above Floor Slab	JAN.	Interior
A.V.	Audio/Visual	JT.	Janitor
ABV.	Above	K.O.	Joint
ACOUS.	Acoustical	KIT	Knock Out
ACT.	Acoustical Ceiling Tile	L.F.	Kitchen
ADJ.	Adjustable	L.K.R.	Linear Foot
AGGR.	Aggregate	LAB.	Locker
AL.	Aluminum	LAM	Laboratory
ANOD.	Anodized	LAV.	Laminate
APPROX.	Approximate	LT	Lavatory
ARCH.	Architectural	M.C.	Light
ASPH.	Asphalt	M.O.	Medicine Cabinet
B.C.	Back Of Curb	MAX.	Masonry Opening
B.M.	Bench Mark	MECH.	Maximum
B.U.R.	Built Up Roof	MEMB	Mechanical
BD.	Board	MET.	Membrane
BITUM.	Bituminous	MFR	Metal
BLDG.	Building	MH.	Manufacturer
BLK.	Block	MIN.	Manhole
BLKG.	Blocking	MIR.	Minimum
BM.	Beam	MISC.	Mirror
B.O.	Bottom Of	MTD.	Miscellaneous
BRG.	Bearing	MUL.	Mounted
BTW.	Between	N.	Mullion
C.B.	Catch Basin	N.I.C.	North
C.F.C.I.	Contractor Furnished / Contractor Installed	N.T.S.	Not In Contract
C.F.O.I.	Contractor Furnished / Owner Installed	NO.	Not To Scale
		NOM.	Number
C.G.	Corner Guard	O.C.	Nominal
C.I.	Cast Iron	O.D.	On Center
C.J.	Construction Joint	O.F.C.I.	Outside Diameter (Dim)
C.M.U.	Concrete Masonry Unit	O.F.O.I.	Owner Furnished / Contractor Installed
C.O.	Clean Out		Owner Furnished / Owner Furnished
C.R.	Cold Rolled	OA.	
C.T.	Ceramic Tile	OBS.	Overall
CAB.	Cabinet	OFF.	Obscure
CEM.	Cement	OPNG.	Office
CEM. PLAST.	Cement Plaster	OPP.	Opening
CER.	Ceramic	P.S.	Opposite
CL.	Center Line	P.SL.	Peg Board
CLG.	Ceiling	P.T.D.	Property Line
CLKG.	Caulking	P.T.D/R	Paper Towel Dispenser
CLR.	Clear	P.T.R.	P.T.D. And Receptacle
CNTR.	Counter	PL.	Paper Towel Receptacle
COL.	Column	PLAM.	Plate
CONC.	Concrete	PLUM.	Plastic Laminate
CONN.	Connection	PLY. WD.	Plumbing
CONSTR.	Construction	PR.	Plywood
CONT.	Continuous	PRECST.	Pair
CORR.	Corridor	PT.	Pre-Cast
CPT.	Carpet	PTN	Paint
CTR.	Counter	Q.T.	Partition
CTSK.	Countersink	R.	Quarry Tile
D.F.	Drinking Fountain	R.D.	Riser
D.O.	Door Opening	R.O.	Roof Drain
D.S.P.	Dry Standpipe	R.W.L.	Rough Opening
D.W.P.	Drawer	RAD.	Rain Water Leader
DBL.	Double	REF.	Radius
DEMO.	Demolition	REFR.	Reference
DEPT.	Department	REINF.	Refrigerator
DET	Detail	REQ.	Reinforced
DIA	Diameter	RESIL.	Required
DIM	Dimension	RM.	Resilient
DISP	Dispenser	RSTR.	Room
DN	Down	RWD.	Register
DR.	Door	S SK.	Redwood
DS.	Downspout	S.	Service Sink
DWG.	Drawing	S.C.	South
E.	East	S.C.E.	Solid Core
E.J.	Expansion Joint	S.H.	Seat Cover Dispenser
EL.	Elevation	SHLD.	Shelf
ELEC.	Electric Panelboard	SCHED.	Sanitary Napkin Dispenser
EP.D.M.	Single Ply Roof Membrane	SD.	Schedule
E.W.	Each Way	SECT.	Soap Dispenser
E.W.C.	Electric Water Cooler	SHR.	Section
EA	Each	SHT.	Shower
ELEC.	Electrical	SIM.	Sheet
EMER	Emergency	SPEC.	Similar
ENCL.	Enclosure	SQ.	Specification
EQ.	Equal	SST.	Square
EQUIP.	Equipment	STA.	Stainless Steel
EXIST	Existing	STD.	Station
EXP.	Expansion	STL.	Standard
EXPO	Exposed	STOR.	Steel
EXT.	Exterior	STRL.	Storage
F.A.	Fire Alarm	SUSP.	Structural
F.B.	Flat Bar	SYM.	Suspended
F.E.	Floor Drain	T & G	Symmetrical
F.E.C.	Fire Extinguisher	T.B.	Tongue And Groove
F.H.	Fire Extinguisher Cabinet	T.E.R.	Towel Bar
F.H.C.	Fire Hydrant	T.O.	Telephone Equipment Room
F.O.C.	Fire Hose Cabinet	T.O.C.	Top Of
F.O.F	Face Of Concrete	T.O.P.	Top Of Curb
F.O.M.	Face Of Finish	T.O.W	Top Of Pavement
F.O.S.	Face Of Masonry	T.V.	Top Of Wall
F.R.P.	Face Of Studs	TEL.	Television
F.S.	Fiberglass Reinforced Panel	TEMP.	Telephone
FDN.	Floor Sink	THD.	Thick
FIN.	Foundation	TYP.	Tread
FLASH.	Finish	U.N.O.	Typical
FLR.	Flashing	UNFIN.	Unless Noted Otherwise
FLUOR.	Floor	UR.	Unfinished
FPRF	Fluorescent	V.B.	Urinal
FT.	Fireproof	V.C.G.	Vapor Barrier
FTG	Foot, Or Feet	V.E.	Vinyl Corner Guard
FURR.	Footing	VAR.	Vinyl Tile
FUT.	Furring	VERT.	Varies
G.B.	Future	VEST.	Vertical
GA.	Grab Bar	W.	Vestibule
GALV.	Gauge	W.C.	West
GL.	Galvanized	W/	Water Closet
GL. BLK.	Glass	W/O	With
GND.	Glass Block	WD.	Without
GR.	Ground	WP.	Wood
GYP.	Grade	WSCT.	Waterproof
H.B.	Gypsum	WT.	Wainscot
	Hose Bibb		Weight

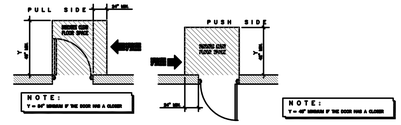
DOORS AND WINDOWS NOTES

1. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OF ANY SPECIAL KNOWLEDGE OR EFFORT. KEY LOCKING HARDWARE MAY BE USED ON THE MAIN ENTRANCE IF THERE IS A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT THE DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED".
2. DOOR OPERATING DEVICES SHALL BE LEVER OPERATED, PUSH TYPE OR U-SHAPED HANDLES.
3. THE BOTTOM 10" OF ALL DOORS SHALL BE PROVIDED WITH A SMOOTH SURFACE TO ALLOW THE DOOR TO BE OPENED WITH A WHEELCHAIR FOOTREST.
4. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 IN. WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.

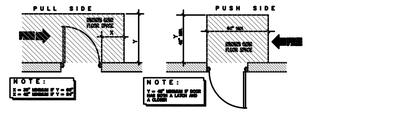


SWING DOOR

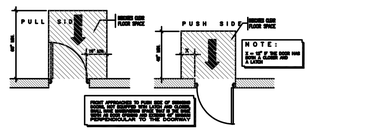
5. MANEUVERING CLEARANCES AT DOORS. MINIMUM MANEUVERING CLEARANCES AT DOORS THAT ARE NOT AUTOMATIC OR POWER ASSISTED SHALL BE AS SHOWN. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR.



LATCH – SIDE APPROACHES – SWINGING DOOR



HINGE – SIDE APPROACHES – SWINGING DOOR



FRONT APPROACHES – SWINGING DOOR

6. THRESHOLDS AT DOORWAYS. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2 IN. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
7. DOOR CLOSERS. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 IN. FROM THE LATCH, MEASURES TO THE LEADING EDGE OF THE DOOR.

   DOOR OPENING FORCE. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
8. (1) FIRED DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.

   (2) OTHER DOORS.
   (a) INTERIOR HINGED DOORS: 5 LBF
   (b) SLIDING OR FOLDING DOORS: 5 LBF
   THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION

   AUTOMATIC DOORS AND POWER ASSISTED DOORS. DOORS SHALL NOT OPEN TO BACK CHECK FASTER THAN 3 SECONDS AND SHALL REQUIRE NO MORE THAN 15 LBF TO STOP DOOR MOVEMENT.
9.

STAIRS, HANDRAILS AND GRAB BAR NOTES

1. PROVIDE HANDRAILS AND RAILING SYSTEMS CAPABLE OF WITHSTANDING THE FOLLOWING STRUCTURAL LOADS (PER ASTM E 985):
   a. APPLIED AT ANY POINT AND A UNIFORM LOAD OF 100 LBF PER LINEAR FT.
   b. HANDRAILS: CONCENTRATED LOAD OF 200 LBF APPLIED AT ANY POINT AND A UNIFORM LOAD OF 50 LBF PER LINEAR FT.
   c. INFILL AREA OF GUARDRAILS SYSTEMS: HORIZONTAL CONCENTRATED LOAD OF 200 LBF APPLIED TO ONE SQ. FT. AT ANY POINT IN THE SYSTEM
2. TREADS AND RISERS. ON ANY GIVEN FLIGHT OF STAIRS, ALL STEPS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD WIDTHS.
3. SIZE AND SPACING OF GRAB BARS AND HANDRAILS. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1–1/4 IN. TO 1–1/2 IN., THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1–1/2 IN.
4. STRUCTURAL STRENGTH. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATION:

   (1) BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.

   (2) SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT. IF THE CONNECTION BETWEEN THE GRAB BAR OR SEAT AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.

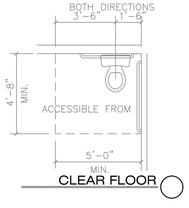
   (3) SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.

   (4) TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.

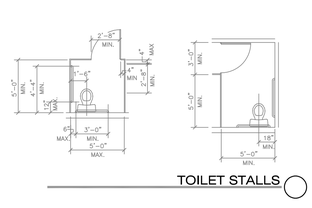
   (5) GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

WATER CLOSET NOTES

1. CLEAR FLOOR SPACE. CLEAR FLOOR SPACE FOR WATER CLOSETS NOT IN STALLS.
2. CLEAR FLOOR SPACE. CLEAR FLOOR SPACE FOR WATER CLOSETS IN STALLS.



CLEAR FLOOR



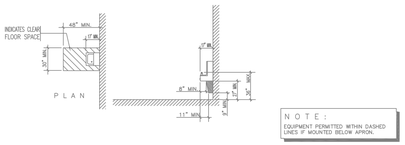
TOILET STALLS

3. HEIGHT. THE HEIGHT OF WATER CLOSETS SHALL BE 17 IN. TO 19 IN. MEASURED TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
4. FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 44 IN. ABOVE THE FLOOR.

DRINKING FOUNTAINS

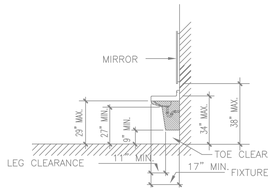
1. SPOUT HEIGHT. SPOUTS SHALL BE NO HIGHER THAN 36 IN., MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.
2. SPOUT LOCATION. THE SPOUTS OF DRINKING FOUNTAINS AND WATER COOLERS SHALL BE AT THE FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4 IN. HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER. ON AN ACCESSIBLE DRINKING FOUNTAIN WITH A ROUND OR OVAL BOWL, THE SPOUT MUST BE POSITIONED SO THE FLOW OF WATER IS WITHIN 3 IN. OF THE FRONT EDGE OF THE FOUNTAIN.

   CLEARANCES. (1) WALL–AND POST–MOUNTED CANTILEVERED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FLOOR OR GROUND AT LEAST 27 IN. HIGH, 30 IN. WIDE, AND 17 IN. TO 19 IN. DEEP.
3. SUCH UNITS SHALL ALSO HAVE A MINIMUM CLEAR FLOOR SPACE 30 IN. BY 48 IN. TO ALLOW A PERSON IN A WHEELCHAIR TO APPROACH THE UNIT FACING FORWARD.

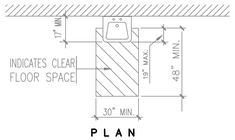


LAVATORY AND MIRRORS

1. HEIGHT. SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN 34 IN. ABOVE THE FINISH FLOOR.
2. KNEE CLEARANCE. KNEE CLEARANCE THAT IS AT LEAST 27 IN. HIGH, 30 IN. WIDE, AND 19 IN. DEEP SHALL PROVIDED UNDERNEATH SINKS.
3. DEPTH. EACH SINK SHALL BE A MAXIMUM OF 6–1/2 IN. DEEP.
4. CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE AT LEAST 30 IN BY 48 IN. SHALL BE PROVIDED IN FRONT OF A SINK TO ALLOW FORWARD APPROACH. THE CLEAR FLOOR SPACE SHALL EXTEND A MAXIMUM OF 19 IN. UNDERNEATH THE SINK.
5. EXPOSED PIPES AND SURFACES. HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED SO AS TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.
6. FAUCETS. LEVER–OPERATED, PUSH–TYPE,TOUCH TYPE, OR ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE DESIGNS.



LAVATORY CLEARANCES



CLEAR FLOOR SPACE AT LAVATORIES

GENERAL REQUIREMENTS

1. THE GENERAL CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES IN THE DIMENSIONS OR DRAWINGS PRIOR TO CONSTRUCTION.

   THE GENERAL CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND ADVISE
2. THE ARCHITECT OF ANY DISCREPANCIES IN THE DIMENSIONS OR DRAWINGS PRIOR TO CONSTRUCTION.

   FEDERAL LAW REQUIRES THAT THE CONSTRUCTION MEET ALL REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT
3. GUIDELINES.

   ALL PLAN DIMENSIONS ARE TO FACE OF STUDS, FACE OF CMU WALL OR CENTER
4. LINE OF GRIDS UNLESS NOTED OTHERWISE.

SYMBOL LEGEND

DATUM POINT

100 DOOR NUMBER

100 WINDOW NUMBER

100 ROOM NUMBER

1 ACCESSORY TAG

XXX EQUIPMENT TAG

1 KEY NOTE

P1 / A4.1 TILTUP TAG

NORTH ARROW

12 / 5 PITCH

A 9'–0" / (ACT–1) CEILING TAG

CPT. CPT. FLOORING TAG

T.O. FIN. FLR. ELEV. 100'–0" ELEVATION TAG

T.O. FIN. FLR. ELEV. 100'–0" ELEVATION TAG

T.O. FIN. FLR. ELEV. 100'–0" EXIST. ELEVATION TAG

1 / SHEET # / 2 / 3 INTERIOR ELEVATION TAG

0 / A–000 ELEVATION TAG

DETAIL / SHEET DETAIL BUBBLE

DETAIL / SHEET DETAIL BUBBLE

DETAIL / SHEET DETAIL BUBBLE

SECTION / SHEET BUILDING SECTION TAG

SECTION / SHEET WALL SECTION TAG

1 REVISION CLOUD AND DELTA TAG

FEC FIRE EXTINGUISHER CABINET

SD SMOKE DETECTOR

0 GRID BUBBLE AND LINE

0 EXIST. GRID BUBBLE AND LINE

0 MATCH BUBBLE AND LINE

MATERIAL LEGEND

CONCRETE
SAND
EARTH
GRAVEL TYPE – I
GRAVEL TYPE – II
MASONRY
STONE
WOOD
ALUMINUM
STEEL
RIGID INSULATION
BATT INSULATION
PLYWOOD
WOOD MEMBER
WOOD BLOCKING

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE
DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
SYMBOL LEGEND, GENERAL NOTES
& ABBREVIATIONS

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY JOHN A. SAWDON ARCHITECT NO. 4058 ON 02/08/2016

OWNER: CITY OF LAS VEGAS
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DRAWN	CJT
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DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521–301
HANSEN NO	60316
SHT NO	AG1.00

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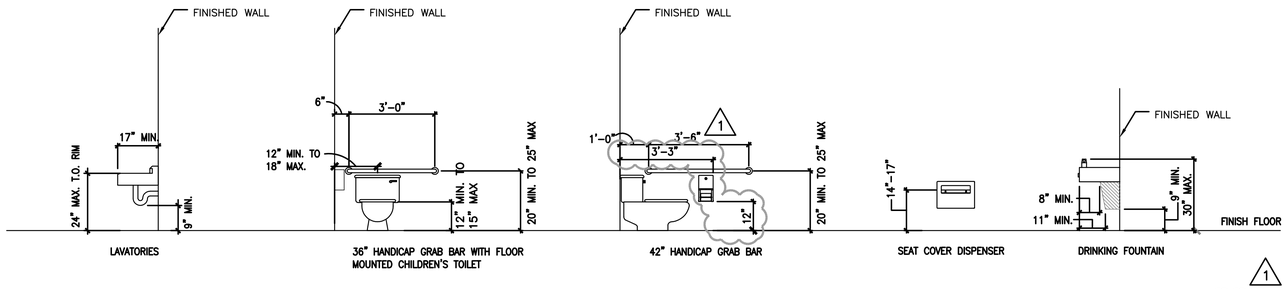
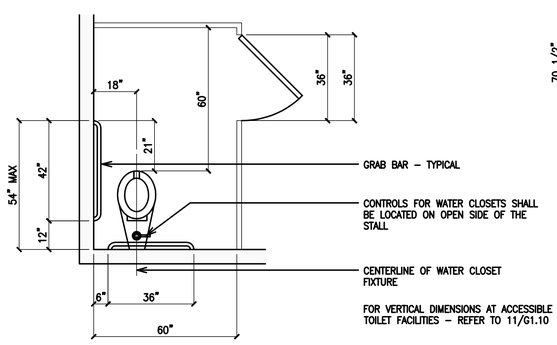
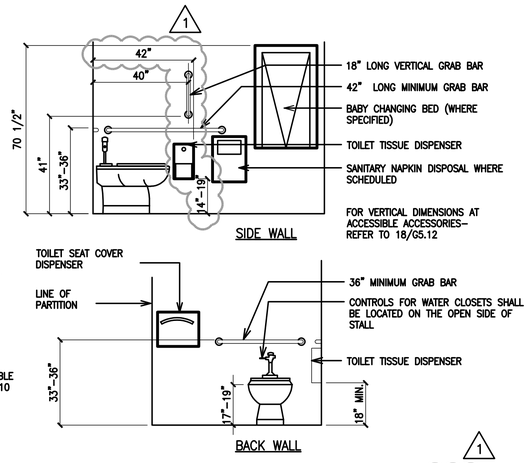


MOUNTING HEIGHTS FOR CHILDREN'S USE, AGES 3 TO 8

3/8" = 1'-0" 1



DOOR OPENING AT SIDE OF STALL

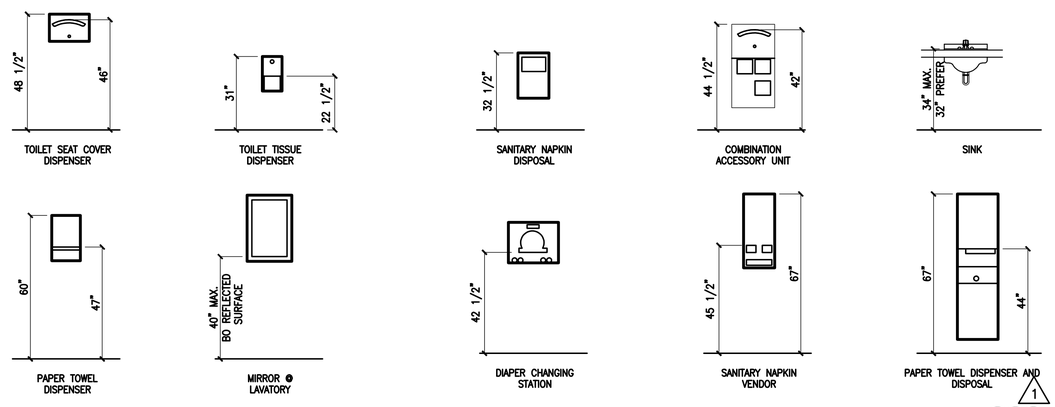


H.C. TOILET STALL CLEARANCES

3/8" = 1'-0" 2

1. VERIFY ALL ACCESSORY SIZE AND MOUNTING WITH MANUFACTURERS APPROVED CUT SHEETS
2. TRAPS AND HOT WATER PIPES AT LAVS OR SINKS SET IN OPEN COUNTERS TO BE INSULATED

NOT ALL FIXTURES OR ACCESSORIES SHOWN ARE APPLICABLE TO THIS PROJECT – REFER TO PLANS AND INT ELEVATIONS FOR SPECIFIC ITEMS, LOCATIONS AND SPECIAL CONDITIONS

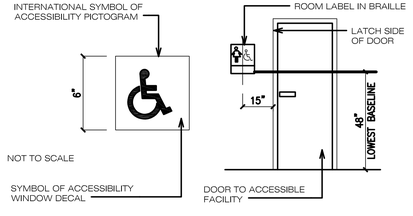


ACCESSIBLE FIXTURE AND ACCESSORY MOUNTING SCHEDULE

3/8" = 1'-0" 3

INTERNATIONAL SYMBOL OF ACCESSIBILITY

NOTE: WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT THE DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT



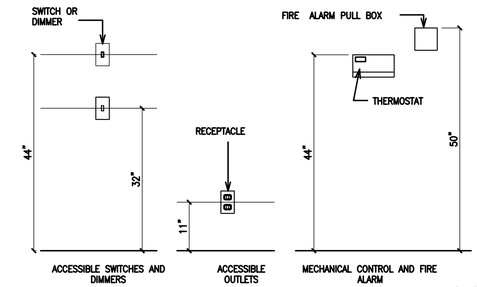
WALL MOUNTED SIGNAGE AT RESTROOMS

SIGNAGE IDENTIFICATION TO BE UPPERCASE LETTERS 5/8 INCH MINIMUM AND 2 INCH MAXIMUM HEIGHT LETTERS ARE TO BE RAISED FROM BACKGROUND 1/32 INCH. BRAILLE SHALL BE CONTRACTED - GRADE II

ACCESSIBILTY SIGNS AT DOORS

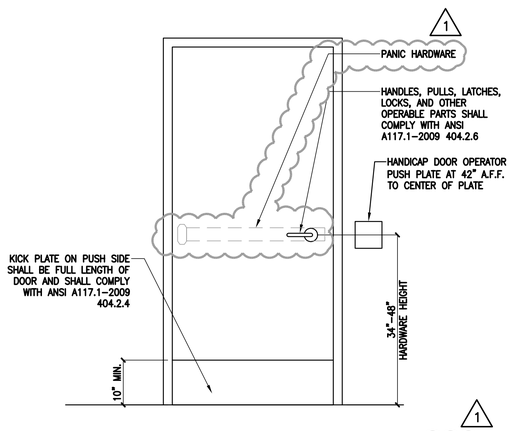
NTS 4

CENTER OF ELECTRICAL AND COMMUNICATION RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15" ABOVE FLOOR OR WORKING PLATFORM – EXCEPTION: REQUIREMENTS DO NOT APPLY WHERE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL AND COMMUNICATIONS SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.



RECEPTACLES AND SWITCHES

3/4" = 1'-0" 5

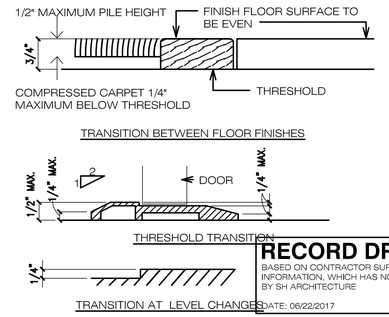


HARDWARE MOUNTING HT.

1/4" = 1'-0" 6

1.FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THRESHOLD OF DOORWAY. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE LEVELED WITH SLOPE NO GREATER THAN 1 VERTICAL TO 2 HORIZONTAL - EXTERIOR LANDING MAY SLOPE 2% MAX FOR SURFACE DRAINAGE

2. WHEN CARPET IS USED, IT SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD, AND HAVE LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT / UNCUT PILE TEXTURE, MAXIMUM PILE HEIGHT SHALL BE 1/2 INCH. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG ENTIRE LENGTH OF EXPOSED EDGE.



LEVEL CHANGES AT THRESHOLD

1/4" = 1'-0" 7

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE
DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
ACCESSIBILITY CLEARANCE
STANDARDS

STAMP
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CODE ANALYSIS

1) CODE YEAR / TYPE

2012 IFC WITH MODIFYING ORDINANCE 6325
2012 ADMINISTATIVE CODE ORDINANCE 6349
2012 IBC WITH ORDINANCE 6350
2012 UMC WITH ORDINANCE 6354
2012 UPC WITH ORDINANCE 6355
2011 NEC WITH ORDINANCE 6356
2009 IECC WITH ORDINANCE 6144
2009 ICC/ANSI A117.1–2009

2) OCCUPANCY CLASSIFICATION

GROUP	DESCRIPTION
E	DAYCARE CLASSROOMS
B	OFFICE
F–1 (ACCESSORY USE)	WARMING KITCHEN, MECH ROOM
S–2 (ACCESSORY USE)	STORAGE

3) TYPE OF CONSTRUCTION:

TYPE V–B

4) FIRE SPRINKLERS

YES, NFPA–13

5) FIRE ALARM

YES, NFPA 72 STANDARD FOR FIRE ALARM AND SIGNALING CODE SYSTEM WITH A MANUAL FIRE ALARM SYSTEM THAT INITIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM.

6) HEIGHT

OCC. GROUP	ALLOWED HT.	ACTUAL HT.
E	40'	24–0'

7) STORIES

OCC. GROUP	ALLOWED STORIES	ACTUAL STORIES
E	2	1 WITH MEZZANINE

8) AREA:

OCCUPANCY CLASSIFICATION 303.1 FOR NEW AREA – E – DAYCARE WITH ASSOCIATED USES: PLAY ROOM, KITCHEN F1 ACCESSORY OCCUPANCY PER 508.2.1
SECTION 508.3 NON–SEPERATED USES

SECTION 308.6.1 2012 IBC UP TO 100 OR LESS CHILDREN 2–½ YEARS OR LESS WITH DOOR TO EXTERIOR CAN BE CLASSIFIED AS "E" OCCUPANCY.

ALLOWABLE BUILDING AREA: NON SEPERATED.
MAIN OCCUPANCY FOR ALLOWABLE AREA SHALL BE TYPE V–B. MOST RESTRICTIVE OCCUPANCY B TABULAR VALUE 9,000 SF.

If = [F/P–0.25]W/30		
If = [343/571–0.25]30/30		
If = [0.60–0.25]1		
If = [0.35]1		
If = 0.35		
Aa = {Aa + [At x If] = At x Is}		
BASIC ALLOWABLE AREA PER FLOOR (At)		9,000 SF
SPRINKLER INCREASE (Is) (506.3)	300%	3
FRONTAGE INCREASE (If)	0%	0.35
Aa = {9,500 + [9,000 x 0.35] + [9,000 x 3]}		
Aa = 9,000 + 3,325 + 27,000		
TOTAL ADJUSTABLE ALLOWABLE AREA (Aa)		39,325 SF
ACTUAL BLDG AREA (FIRST FLOOR)		9,895 SF
ACTUAL BLDG AREA (MEZZANINE)		1,078 SF
TOTAL ACTUAL BLDG AREA		10,973 SF

9 & 10) OCCUPANT LOAD & NUMBER OF EXITS

AREA	OCC.	FUNCTION	AREA (SF)	FACTOR (TABLE 1004.1.2)	OCC. LOAD	EXITS REQ'D	EXITS PROV'D
100	E	DAYCARE CLASSROOM	901	1:35	26	1	13
101	E	DAYCARE CLASSROOM	901	1:35	26	1	13
102	E	DAYCARE CLASSROOM	722	1:35	21	1	13
103	E	DAYCARE CLASSROOM	722	1:35	21	1	13
104	E	DAYCARE CLASSROOM	710	1:35	21	1	13
105	F–1	KITCHEN	194	1:200	1	1	13
106	F–1	MECH ROOM	67	1:200	1	1	13
107	B	OFFICES	405	1:100	5	1	13
111	B	OFFICES	106	1:100	1	1	13
112	B	OFFICES	81	1:100	1	1	13
113	B	OFFICES	130	1:100	2	1	13
114	E	DAYCARE CLASSROOM	736	1:35	21	1	13
115	E	DAYCARE CLASSROOM	711	1:35	21	1	13
116	E	DAYCARE CLASSROOM	716	1:35	21	1	13
117	E	DAYCARE CLASSROOM	727	1:35	21	1	13
122	S	STORAGE	±15	1:300	1	1	13

9 & 10) OCCUPANT LOAD & NUMBER OF EXITS (CONT.)

AREA	OCC.	FUNCTION	AREA (SF)	FACTOR (TABLE 1004.1.2)	OCC. LOAD	EXITS REQ'D	EXITS PROV'D
201	B	OFFICES	202	1:100	3	1	13
203	B	OFFICES	247	1:100	3	1	13
204	B	OFFICES	227	1:100	3	1	13
TOTAL OCCUPANT LOAD					220		

11) FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

STRUCTURAL FRAME	NONE
BEARING WALLS – EXTERIOR	NONE
BEARING WALLS – INTERIOR	NONE
NON–BEARING WALLS	NONE
FLOOR CONSTRUCTION	NONE
ROOF CONSTRUCTION	NONE
SHAFTS	NONE

12) REQ'D FIRE RESISTANCE OF EXTERIOR WALLS DUE TO LOCATION ON PROPERTY

WEST WALL – 1 HOUR WALL – FIRE SEPARATION DISTANCE MORE THAN 3 FEET, LESS THAN 5 FEET

13) PROTECTION OF OPENINGS DUE TO LOCATION ON PROPERTY AND MAXIMUM AREA OF EXT WALL OPENINGS

MAXIMUM AREA OF EXTERIOR WALL OPENINGS PER TABLE 705.8

WALL	FIRE SEPARATION DISTANCE	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
WEST WALL	3 TO LESS THAN 5 FEET	UNPROTECTED/SPRINKLERED	15%

AREA OF WALL = 15' X 80' = 1200 SF, 15/1,200 = 180 SF
MAXIMUM AREA OF EXTERIOR WALL OPENINGS = 93 SF
ACTUAL AREA = 93/1,200 SF = 7.75% (LESS THAN 15 %)

14) SPACES REQUIRING FIRE-RESISTANCE RATED SEPARATION

FIRE RISER ROOM – 1 HOUR WALL SEPARATION
EXISTING 1 HOUR RATED CEILING UNDER STAIRS FOR EXISTING STORAGE ROOM

15) NON-SEPARATED OR SEPARATED OCCUPANCIES

NON SEPARATED MIXED USE OCCUPANCIES, GROUP E TO GROUP B

F–1 (ACCESSORY USE) 261 SF/8,520 SF = 3%, LESS THAN 10%
S–2 (ACCESSORY USE) 15 SF/8,520 SF = .01%, LESS THAN 10%

16) ROOF COVERING MATERIAL CLASS

TYPE OF CONSTRUCTION	ALLOWED	ACTUAL
V–B	C	C

17) REQUIRED PLUMBING FIXTURES

OCCUPANCY	OCCUPANT LOAD	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINKS
		MALE	FEMALE	MALE	FEMALE		
(E) DAYCARE	199	1/50	1/50	1/50		1/100	1
	99 MALE 99 FEMALE	2	2	2	2	1	1
(B) BUSINESS ACCESSORY USES (F–1) AND (S–2)	21	1/25	1/25	1/50		1/100	1
	11 MALE 11 FEMALE	1	1	1	1	1	1
TOTAL REQUIRED		3	3	3	3	3	1
TOTAL PROVIDED		19	19	21	21	4	1

18) SPECIAL INSPECTION(S) REQUIRED

SEE SHEET S0.1 – GENERAL STRUCTURAL NOTES

19) I.E.C.C. COMPLIANCE REPORTS

SCOPE OF WORK IS ONLY INTERIOR, THEREFORE IECC ENVELOPE CACULATIONS WERE NOT PERFORMED.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE
DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

REVISIONS
1 3/14/16PLAN COMMENTS
2 4/12/16PLAN COMMENTS
3 5/4/16 PLAN COMMENTS
4 5/9/16 PLAN COMMENTS

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ALTA DAYCARE UPGRADES
CODE ANALYSIS

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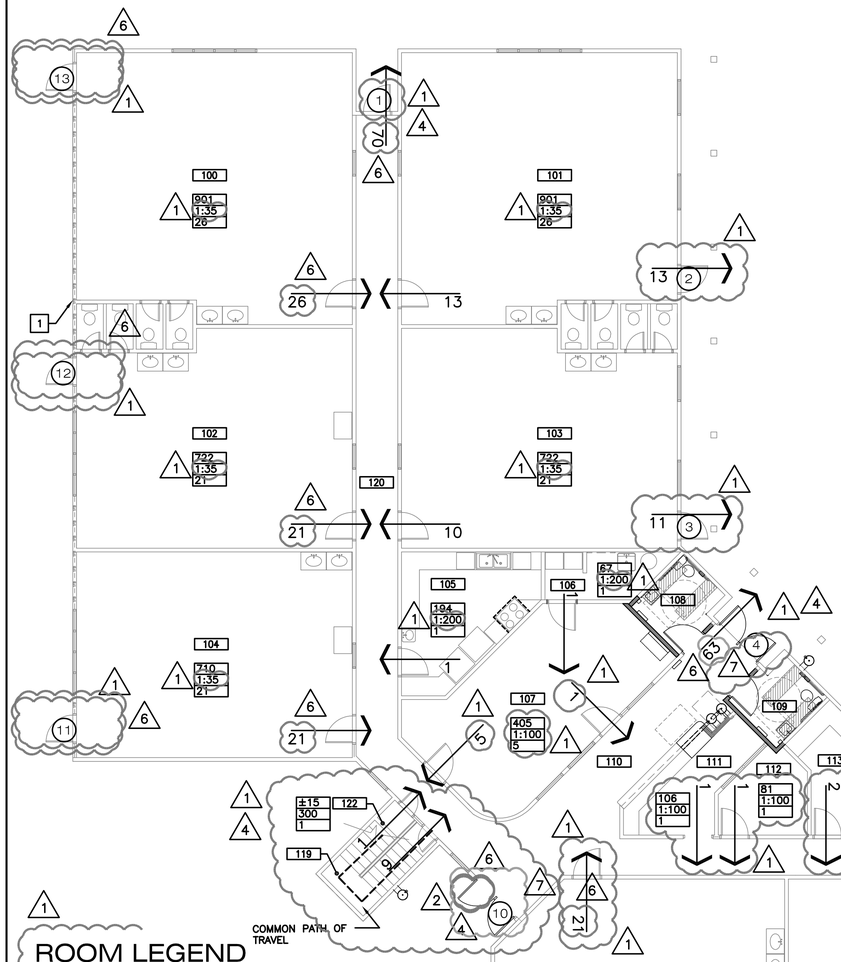
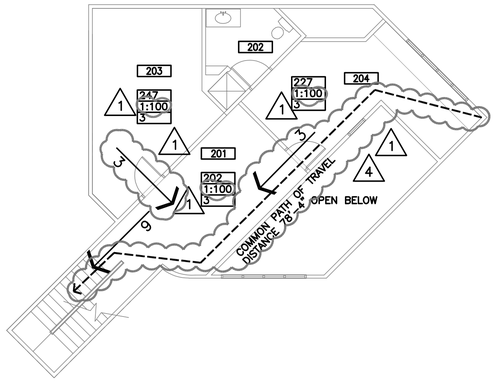


EXITING PLAN - FIRST FLOOR (A)

1/8" = 1'-0"

NORTH



EXITING PLAN - MEZZANINE (B)

1/8" = 1'-0"

NORTH

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	OCCUPANCY ROOM TAG: – SQUARE FOOTAGE OF SPACE – OCCUPANT LOAD FACTOR – NUMBER OF OCCUPANTS (N/C = NON–CONTRIBUTING LOAD)
# →	NUMBER OF OCCUPANTS EXITING TAG
(#)	EXIT DOOR NUMBER
#	EXIT ROOM NUMBER

EXIT DOOR KEY (#)

EXIT NUMBER	OCCUPANCY SERVED	EGRESS WIDTH FACTOR	WIDTH REQ'D (IN.)	WIDTH PROV. (IN.)	EXIT CAPACITY
1	70	.2	14	32	160
2	13	.2	2.6	32	160
3	11	.2	2.2	32	160
4	63	.2	12.6	72	360
5	63	.2	12.6	32	160
6	0	.2	0	32	160
7	0	.2	0	32	160
8	0	.2	0	32	160
9	0	.2	0	32	160
10	0	.2	0	72	360
11	0	.2	0	32	160
12	0	.2	0	32	160
13	0	.2	0	32	160
TOTAL	220				

EXIT STAIR KEY

EXIT NUMBER	OCCUPANCY SERVED	EGRESS WIDTH FACTOR	WIDTH REQ'D (IN.)	WIDTH PROV. (IN.)	EXIT CAPACITY
1	9	.3	2.7	38	127

DESIGN OCCUPANT LOAD

ROOM	FUNCTION OF SPACE	GROUP	USF	OLF	OL
100	DAYCARE CLASSROOM	E	901	1:35	26
101	DAYCARE CLASSROOM	E	901	1:35	26
102	DAYCARE CLASSROOM	E	722	1:35	21
103	DAYCARE CLASSROOM	E	722	1:35	21
104	DAYCARE CLASSROOM	E	710	1:35	21
105	KITCHEN	F–1	194	1:200	1
106	MECH ROOM	F–1	67	1:200	1
107	OFFICE	B	405	1:100	5
111	OFFICE	B	106	1:100	1
112	OFFICE	B	81	1:100	1
113	OFFICE	B	130	1:100	2
114	DAYCARE CLASSROOM	E	736	1:35	21
115	DAYCARE CLASSROOM	E	711	1:35	21
116	DAYCARE CLASSROOM	E	716	1:35	21
117	DAYCARE CLASSROOM	E	727	1:35	21
122	STORAGE	S	±15	1:300	1
201	OPEN OFFICE	B	202	1:100	3
203	OFFICE	B	247	1:100	3
204	OFFICE	B	227	1:100	3
				TOTAL OCCUPANT LOAD	220

KEY NOTES

1 EXISTING 1 HOUR RATED WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE

DATE: 06/22/2017

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B 11/2/16 OWNER CHANGES
7 11/7/16 OWNER CHANGES

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CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES
EXITING PLAN

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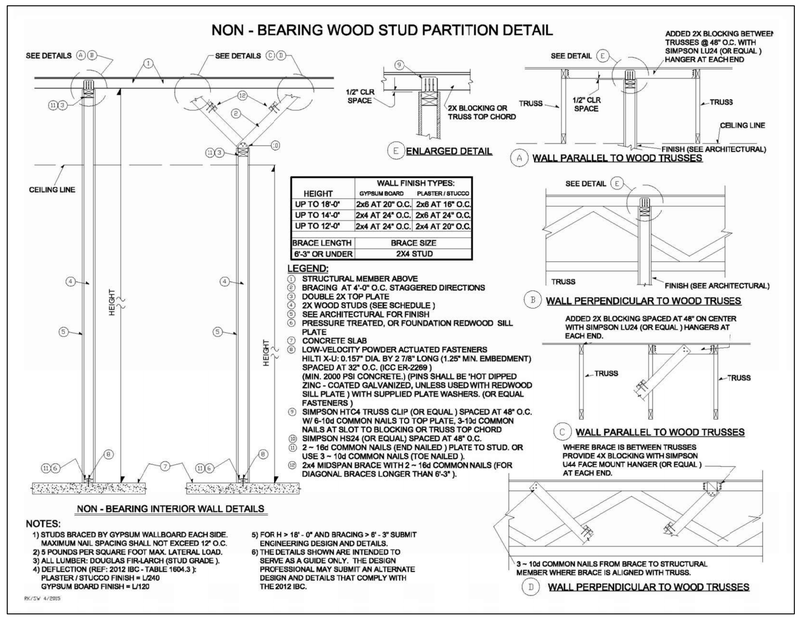


HEIGHT	WALL FINISH TYPES: GYPSUM BOARD	PLASTER / STUCCO
UP TO 18'-0"	2x6 AT 20" O.C.	2x6 AT 16" O.C.
UP TO 14'-0"	2x4 AT 24" O.C.	2x6 AT 24" O.C.
UP TO 12'-0"	2x4 AT 24" O.C.	2x4 AT 20" O.C.

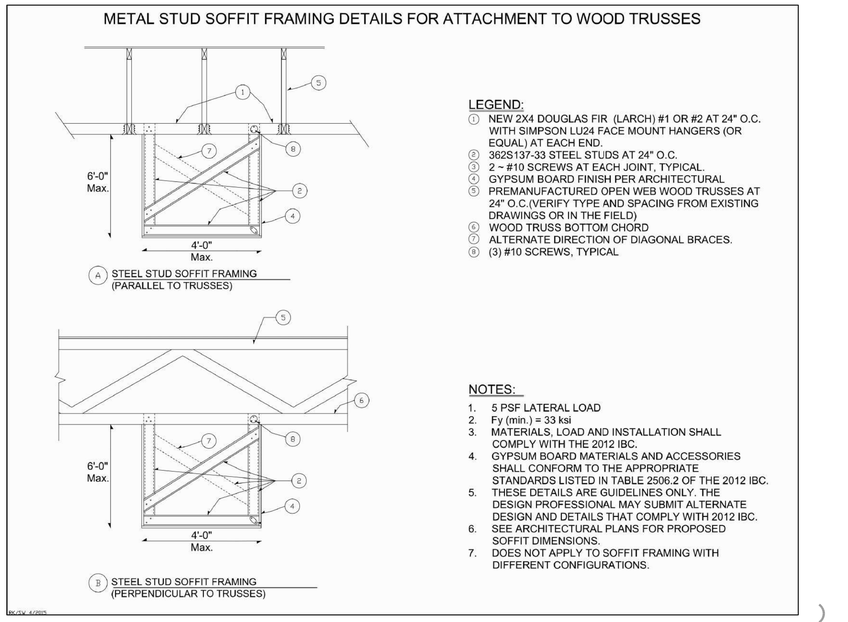
BRACE LENGTH	BRACE SIZE
6'-3" OR UNDER	2X4 STUD

LEGEND:
1. STRUCTURAL MEMBER ABOVE
2. BRACING AT 4'-0" O.C. STAGGERED DIRECTIONS
3. DOUBLE 2X TOP PLATE
4. 2X WOOD STUDS (SEE SCHEDULE)
5. SEE ARCHITECTURAL FOR FINISH
6. PRESSURE TREATED, OR FOUNDATION REDWOOD SILL PLATE
7. CONCRETE SLAB
8. LOW-VELOCITY POWDER ACTUATED FASTENERS HILTI X-U: 0.157" DIA. BY 2 7/8" LONG (1.25" MIN. EMBEDMENT) SPACED AT 32" O.C. (ICC ER-2269) (MIN. 2000 PSI CONCRETE.) (PINS SHALL BE 'HOT DIPPED ZINC - COATED GALVANIZED, UNLESS USED WITH REDWOOD SILL PLATE) WITH SUPPLIED PLATE WASHERS. (OR EQUAL FASTENERS)
9. SIMPSON H1C4 TRUSS CLIP (OR EQUAL) SPACED AT 48" O.C. W/ 6-10d COMMON NAILS TO TOP PLATE, 3-13d COMMON NAILS AT SLOT TO BLOCKING OR TRUSS TOP CHORD
10. SIMPSON H2.5A (OR EQUAL) SPACED AT 48" O.C.
11. 2 – 16d COMMON NAILS (END NAILED) PLATE TO STUD. OR USE 3 – 10d COMMON NAILS (TOE NAILED).
12. 2x4 MIDSPAN BRACE WITH 2 – 16d COMMON NAILS (FOR DIAGONAL BRACES LONGER THAN 6'-3").

NOTES:
1) STUDS BRACED BY GYPSUM WALLBOARD EACH SIDE. MAXIMUM NAIL SPACING SHALL NOT EXCEED 12" O.C.
2) 5 POUNDS PER SQUARE FOOT MAX. LATERAL LOAD.
3) ALL LUMBER: DOUGLAS FIR-LARCH (STUD GRADE).
4) DEFLECTION (REF: 2012 IBC - TABLE 1604.3): PLASTER / STUCCO FINISH = L/240 GYPSUM BOARD FINISH = L/120
5) FOR H > 18' - 0" AND BRACING > 6' - 3" SUBMIT ENGINEERING DESIGN AND DETAILS.
6) THE DETAILS SHOWN ARE INTENDED TO SERVE AS A GUIDE ONLY. THE DESIGN PROFESSIONAL MAY SUBMIT AN ALTERNATE DESIGN AND DETAILS THAT COMPLY WITH THE 2012 IBC.

NON-BEARING WOOD STUD PARTITION DETAIL 1

NTS



LEGEND:
1. NEW 2X4 DOUGLAS FIR (LARCH) #1 OR #2 AT 24" O.C. WITH SIMPSON LU24 FACE MOUNT HANGERS (OR EQUAL) AT EACH END.
2. 362S137-33 STEEL STUDS AT 24" O.C.
3. 2 – #10 SCREWS AT EACH JOINT, TYPICAL.
4. GYPSUM BOARD FINISH PER ARCHITECTURAL
5. PREMANUFACTURED OPEN WEB WOOD TRUSSES AT 24" O.C.(VERIFY TYPE AND SPACING FROM EXISTING DRAWINGS OR IN THE FIELD)
6. WOOD TRUSS BOTTOM CHORD
7. ALTERNATE DIRECTION OF DIAGONAL BRACES.
8. (3) #10 SCREWS, TYPICAL

NOTES:
1. 5 PSF LATERAL LOAD
2. Fy (min.) = 33 ksi
3. MATERIALS, LOAD AND INSTALLATION SHALL COMPLY WITH THE 2012 IBC.
4. GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN TABLE 2506.2 OF THE 2012 IBC.
5. THESE DETAILS ARE GUIDELINES ONLY. THE DESIGN PROFESSIONAL MAY SUBMIT ALTERNATE DESIGN AND DETAILS THAT COMPLY WITH 2012 IBC.
6. SEE ARCHITECTURAL PLANS FOR PROPOSED SOFFIT DIMENSIONS.
7. DOES NOT APPLY TO SOFFIT FRAMING WITH DIFFERENT CONFIGURATIONS.

SOFFIT FRAMING DETAIL 2

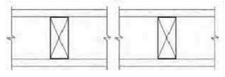
NTS

GA FILE NO. WP 3510	GENERIC	1 HOUR FIRE	35 to 39 STC SOUND

GYPSUM WALLBOARD, WOOD STUDS

One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 2 x 4 wood studs 24" o.c. with 6d coated nails, 1 7/8" long, 0.0915" shank, 1/4" heads, 7" o.c.

Joints staggered 24" on opposite sides. **(LOAD-BEARING)**



Thickness: 4 7/8"
Approx. Weight: 7 psf
Fire Test: UL R3501-47, -48, 9-17-65, UL Design U309; UL R1319-129, 7-22-70, UL Design U314
Sound Test: NGC 2404, 10-14-70

1 HOUR ASSEMBLY 3

NTS

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DATE: 06/22/2017

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1 3/14/16PLAN COMMENTS

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ALTA DAYCARE UPGRADES
TYPICAL PARTITION FRAMING
AND DETAILS

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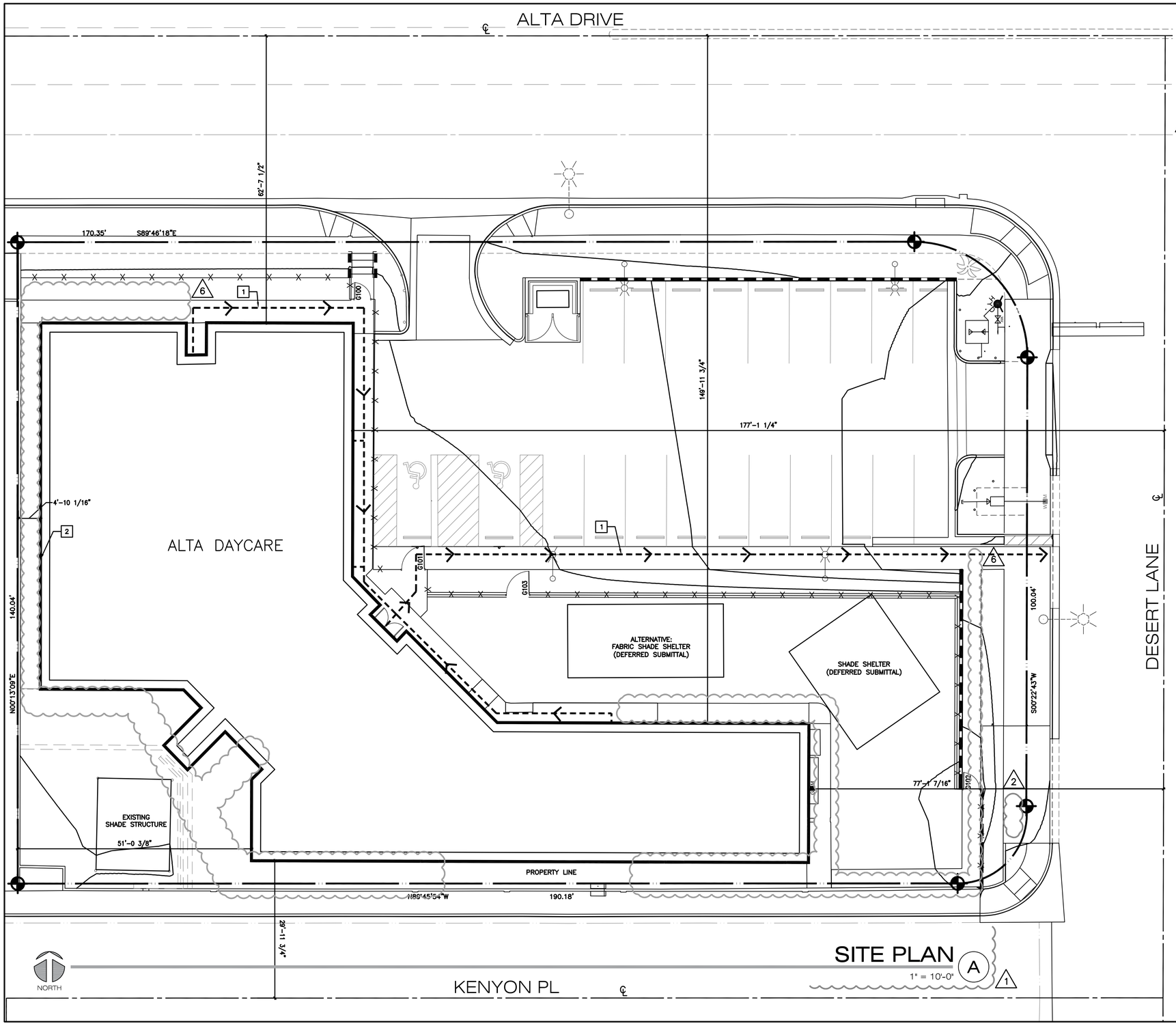

SHEET NOTES

A. SITE PLAN INCLUDED FOR REFERENCE ONLY. SEE CIVIL DRAWINGS FOR ALL GRADING, PAVING, HORIZONTAL CONTROL AND SITE UTILITY INFORMATION.

B. ALL ACCESSIBLE ROUTES SLOPE MAX 5% IN DIRECTION OF TRAVEL, MAX 2% CROSS SLOPE.

3

KEY NOTES

1 ACCESSIBLE ROUTE TO PUBLIC WAY

2 EXISTING ONE 1 HOUR RATED WALL

SITE PLAN A
1" = 10'-0" 1

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE
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CITY OF LAS VEGAS NEVADA

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ALTA DAYCARE UPGRADES
SITE PLAN

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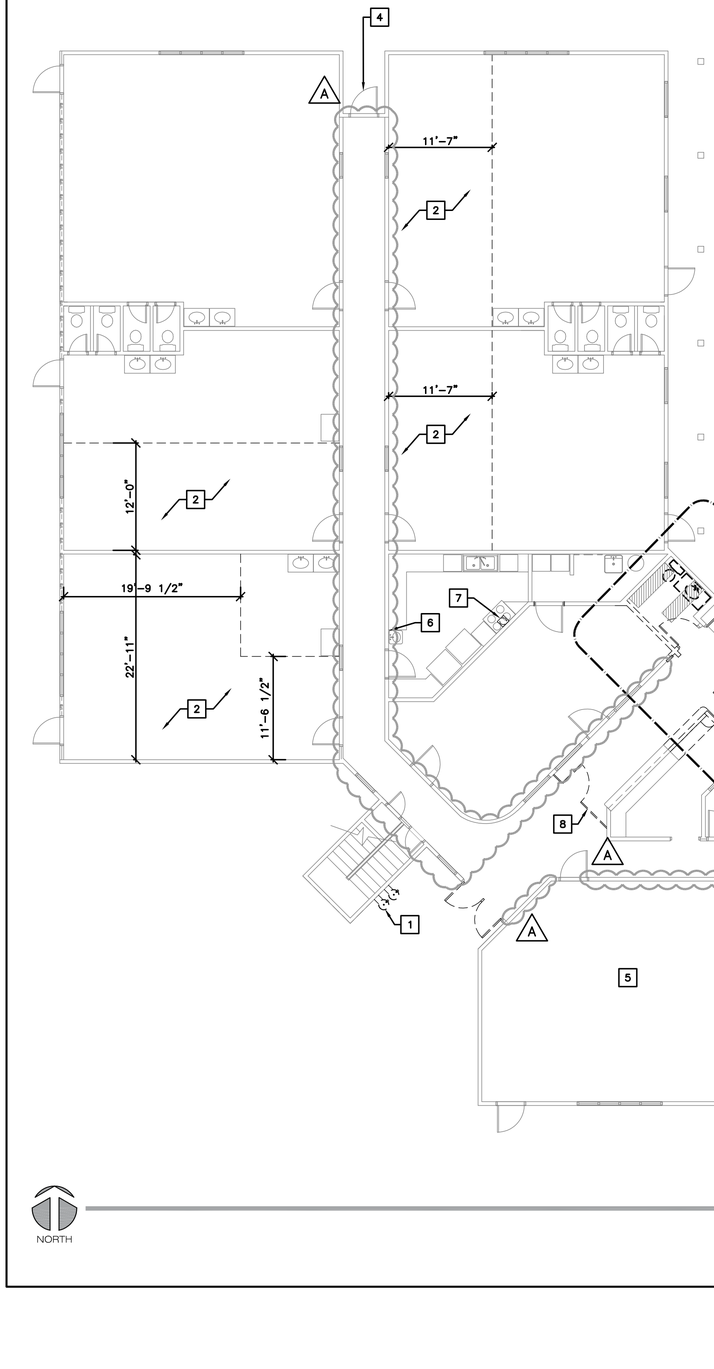
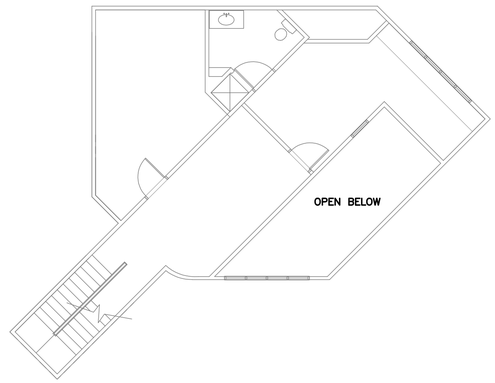


DEMO PLAN - MEZZANINE (B)
1/8" = 1'-0"



DEMO PLAN - FIRST FLOOR (A)
1/8" = 1'-0"

NORTH

SHEET NOTES

A. CONTRACTOR SHALL PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NO LIMITED TO DIMENSIONS, UTILITY LOCATIONS AND UTILITY SIZES

B. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF DRAWINGS ARE IN DOUBT , OR THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION. RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT AND TRANSMIT TO THE ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

C. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES. DO NOT SCALE DRAWGS TO DETERMINE ANY LOCATIONS. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONTINUING THE WORK.

D. CONSULTANT ENGINEERING DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. THE CONTACTOR SHALL BE RESONSIBLE TO REVIEW THE ARCHITECTURAL DRAWINGS PRIOR TO THE INSTALLATION OF ANY WORK SHOWN ON THE CONSULTANT ENGINEER'S DRAWINGS. ANY DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT ENGINEER'S DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND RESOLUTION PRIOR TO COMMENCING WORK.

E. DIMENSIONS AND EXISTING ITEMS LOCATION IS BASED UPON INFORMATION PROVIDED BY OTHERS. THE ARCHITECT AND CONSULTANT ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY.

F. PROTECT EXISTING FINISHES IN AREAS WHERE DEMOLITION WORK IS TO BE PERFORMED.

DEMOLITION LEGEND

EXISTING FRAMED WALL TO REMAIN

DIMENSIONS TO FACE OF GYP BD — EXISTING FRAMED WALL TO BE DEMOLISHED, SERVICES INCLUDING, BUT NOT LIMITED TO HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL AND TELECOMMUNICATIONS SHALL BE REMOVED, MAINTAINED AND ABANDONED

EXISTING DOOR & FRAME TO REMAIN AND BE PROTECTED

EXISTING DOOR & FRAME TO BE DEMOLISHED; VERIFY SALVAGE, RELOCATION, RECYCLING OR REUSE WITH OWNER

EXISTING 1-HOUR FIRE WALL TO REMAIN

Keynotes

1. REMOVE EXISTING DRINKING FOUNTAIN. EXISTING WALL AND DRAIN LINE TO REMAIN FOR NEW DRINKING FOUNTAIN.
2. REMOVE EXISTING TRANSITION STRIP AND CARPET. THOROUGHLY STRIP, CLEAN AND REWAX EXISTING ADJACENT VCT TO MAKE LIKE NEW.
3. REMOVE EXISTING CARPET. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO INSTALL NEW FIRE RISER.
4. REMOVE EXISTING DOOR HARDWARE. PREP FOR NEW ADA DOOR LEVER TYPE HARDWARE. (TYP.) SEE DOOR SCHEDULE.
5. REMOVE EXISTING INDOOR JUNGLE GYM THIS ROOM.
6. REMOVE WALL MOUNTED SOAP DISPENSER, LIGHT SWITCH AND OTHER ITEMS TO INSTALL FRP.
7. REMOVE EXISTING KITCHEN EXHAUST HOOD. PREP TO INSTALL NEW APPROVED TYPE II HOOD AS REQUIRED. SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
8. REMOVE EXISTING INDOOR GATE.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE
DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

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ALTA DAYCARE UPGRADES
DEMOLITION PLANS

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SCALE	
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CLV DWG NO	521-301
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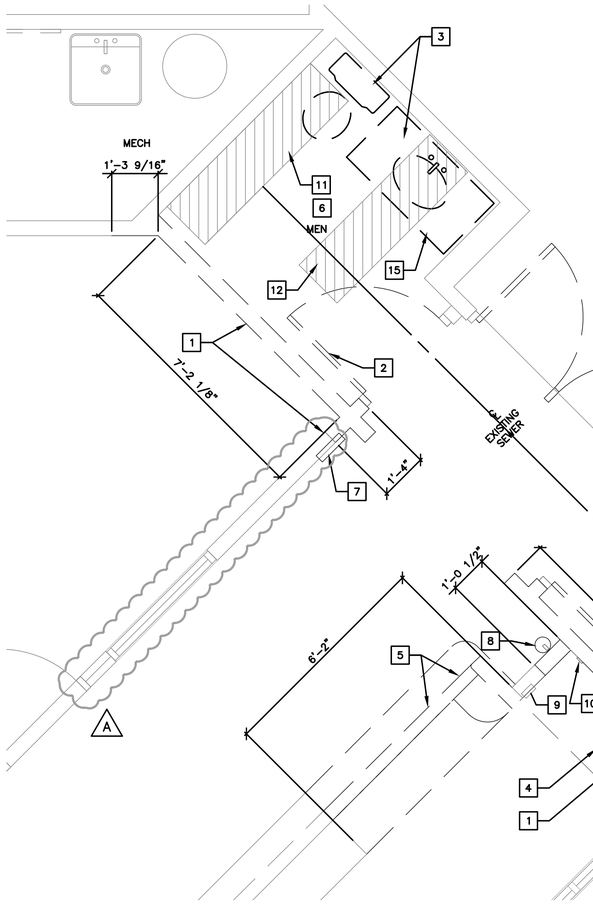
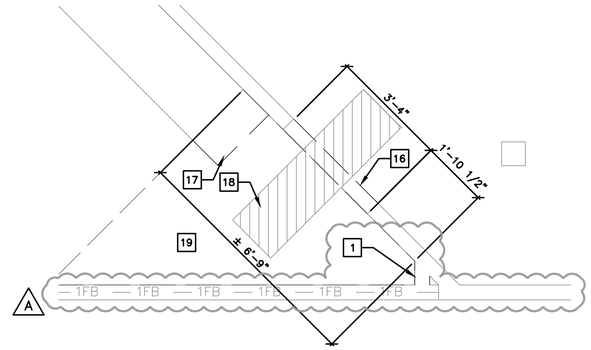


NORTH

ENLARGED DEMO PLAN - FIRST FLOOR (A)

1/2" = 1'-0"



NORTH

ENLARGED DEMO PLAN - FIRST FLOOR (B)

1/2" = 1'-0"

SHEET NOTES

A. CONTRACTOR SHALL PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NO LIMITED TO DIMENSIONS, UTILITY LOCATIONS AND UTILITY SIZES

B. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF DRAWINGS ARE IN DOUBT , OR THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION. RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT AND TRANSMIT TO THE ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

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F. PROTECT EXISTING FINISHES IN AREAS WHERE DEMOLITION WORK IS TO BE PERFORMED.

DEMOLITION LEGEND

EXISTING FRAMED WALL TO REMAIN

DIMENSIONS TO FACE OF GYP BD — EXISTING FRAMED WALL TO BE DEMOLISHED, SERVICES INCLUDING, BUT NOT LIMITED TO HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL AND TELECOMMUNICATIONS SHALL BE REMOVED, MAINTAINED AND ABANDONED

EXISTING DOOR & FRAME TO REMAIN AND BE PROTECTED

EXISTING DOOR & FRAME TO BE DEMOLISHED; VERIFY SALVAGE, RELOCATION, RECYCLING OR REUSE WITH OWNER

1FB — EXISTING 1-HOUR FIRE WALL TO REMAIN

KEYNOTES

1. DEMOLISH EXISTING WALLS.
2. REMOVE EXISTING DOOR AND FRAME. CLEAN AND STORE FOR REUSE.
3. REMOVE EXISTING PLUMBING FIXTURES.
4. DEMOLISH EXISTING CASEWORK.
5. ADD/ALT: MODIFY EXISTING COUNTER AND PARTIAL HEIGHT WALL TO BE ADA COMPLIANT. SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
6. DEMOLISH EXISTING TILE FLOOR.
7. REMOVE EXISTING FIRE ALARM FIREMAN'S PANEL. NEW PANEL TO BE PROVIDED. SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
8. REMOVE AND STORE EXISTING WALL MOUNTED FIRE EXTINGUISHER AND WALL ATTACHMENT FOR REINSTALLATION. SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
9. EXISTING SECURITY ALARM CONTROL TO REMAIN.
10. EXISTING DUPLEX OUTLET TO BE ABANDONED (TYP. 2). SEE SHEET AD2.12 FOR ADDITIONAL INFORMATION.
11. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO REMOVE EXISTING SEWER LINE. RELOCATE AND INSTALL NEW SEWER LINE FOR NEW WATER CLOSET AND LAVATORY.
12. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO REMOVE AND CAP EXISTING SEWER LINE.
13. CUT AND REMOVE EXISTING EXTERIOR WALL AS NEEDED TO INSTALL NEW DRINKING FOUNTAIN.
14. CUT AND REMOVE EXISTING INTERIOR WALL AS NEEDED TO CONNECT TO EXISTING SEWER AND WATER LINE.
15. REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP.
16. CUT AND REMOVE EXISTING EXTERIOR WALL AS NEEDED TO INSTALL NEW HOLLOW METAL DOOR AND FRAME.
17. CUT AND REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP.
18. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO INSTALL NEW FIRE RISER. SEE CIVIL DRAWINGS.
19. DEMOLISH EXISTING CARPET

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE
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ALTA DAYCARE UPGRADES
ENLARGED DEMO PLAN

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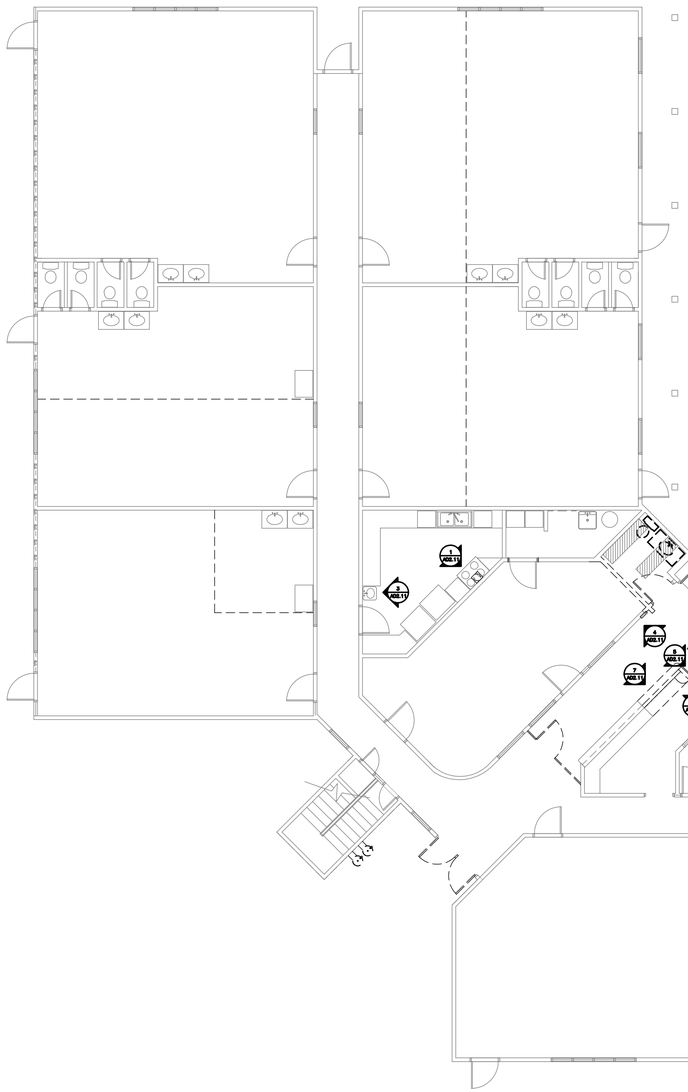


NORTH

DEMO KEY PLAN - FIRST FLOOR (A)

1/8" = 1'-0"

- EXISTING EXHAUST TO BE REMOVED TO INSTALL NEW APPROVED TYPE II HOOD. REFER TO MECHANICAL SHEETS.
- REMOVE, STORE, AND REINSTALL EXISTING MICROWAVE.
- REMOVE, STORE AND REINSTALL EXISTING RANGE.

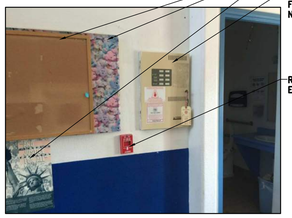
DETAIL 1 — SCALE: NTS

- DEMOLISH EXISTING WALL FORNEW FIRE RISER DOOR. SEE SHEET AD2.10 FOR EXACT CUT MEASUREMENT.
- EXISTING COUNTER TO REMAIN,PROTECT IN PLACE FOR NEW WALL INSTALLATION.
- EXISTING EXISTING CARPET. CUT AND REMOVE EXISTING CONCRETE SLAB AS NEEDED TO INSTALL NEW FIRE RISER. SEE SHEET AD2.10 FOR EXACT CUT MEASUREMENTS.

DETAIL 2 — SCALE: NTS

- REMOVE AND RELOCATE EXISTING LIGHT SWITCH.
- REMOVE AND STORE EXISTING WALL GRAPHIC ITEMS.
- REMOVE, STORE AND REINSTALL EXISTING WALL MOUNTED SOAP DISPENSER.
- EXISTING SERVICE SINK TO REMAIN. PROTECT IN PLACE FOR INSTALLATION OF FRP.
- FRP TO BE INSTALLED THIS AREA.
- DEMOLISH EXISTING RUBBER BASE.

DETAIL 3 — SCALE: NTS



- REMOVE AND STORE EXISTING WALL GRAPHIC ITEMS.
- REMOVE AND STORE EXISTING FIRE ALARM FIREMAN'S PANEL. NEW PANEL TO BE PROVIDED.
- REMOVE AND RELOCATE EXISTING FIRE ALARM.

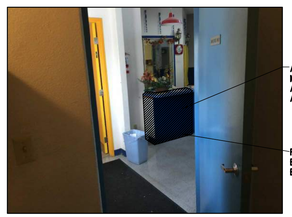
DETAIL 4 — SCALE: NTS

- REMOVE AND STORE EXISTING WALL MOUNTED FIRE EXTINGUISHER AND WALL ATTACHMENT FOR REINSTALLATION.
- REMOVE AND RELOCATE EXISTING LIGHT SWITCHES.
- REMOVE AND RELOCATE WATER SUPPLY PIPE.
- REMOVE AND RELOCATE EXISTING DUPLEX OUTLET.
- DEMOLISH EXISTING RUBBER BASE.

DETAIL 5 — SCALE: NTS

- REMOVE AND STORE EXISTING WALL SCONCE.
- EXISTING DUPLEX OUTLETS TO BE ABANDONED.
- EXISTING SECURITY ALARM CONTROL TO REMAIN.
- DEMOLISH EXISTING CASEWORK.

DETAIL 6 — SCALE: NTS



- ADD/ALT: MODIFY EXISTING COUNTER AND WALL TOPROVIDE ADA ACCESSIBLE COUNTER.
- REMOVE EXISTING RUBBER BASE. REPLACE NEW RUBBER BASE TO MATCH EXISTING.

DETAIL 7 — SCALE: NTS

RECORD DRAWING
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DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

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CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES
DEMO DETAIL IMAGES

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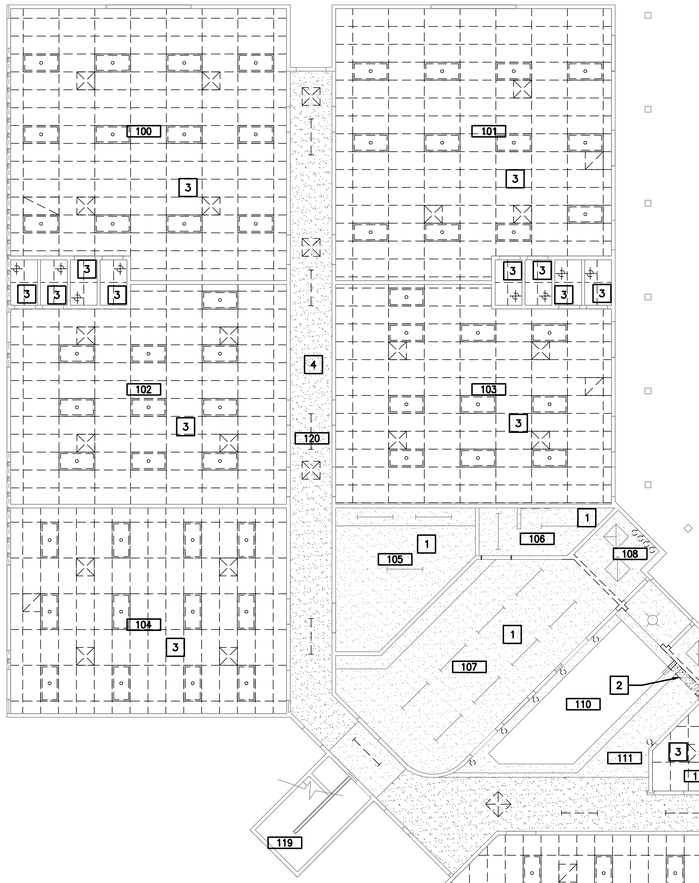
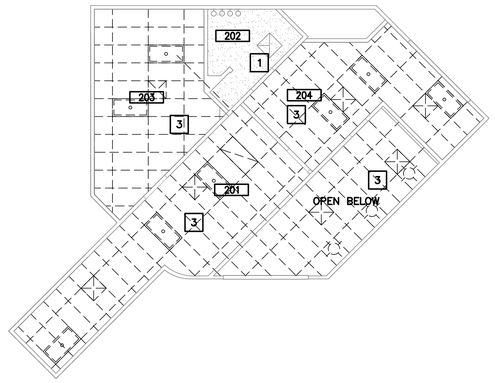


NORTH

DEMO REFLECTED CEILING PLAN - FIRST FLOOR (A)

1/8" = 1'-0"



NORTH

DEMO RCP - MEZZANINE (B)

1/8" = 1'-0"

SHEET NOTES

A. CONTRACTOR SHALL PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NO LIMITED TO DIMENSIONS, UTILITY LOCATIONS AND UTILITY SIZES

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D. VERIFY EXISTING LAY-IN CEILING HEIGHT BEFORE BEGINNING OF WORK. NEW LAY-IN CEILING IN EXISTING SPACE TO MATCH EXISTING HEIGHT.

E. AFTER DEMOLITION OF EXISTING CEILING (WHERE APPLICABLE), CONTRACTOR TO CONFIRM HEIGHTS OF NEW CEILING ARE COMPATIBLE WITH EXISTING CONDITIONS. CONTRACTOR TO NOTIFY OWNER AND ARCHITECT IMMEDIATELY IF CONFLICTS DISCOVERED.

F. PROTECT EXISTING FINISHES IN AREAS WHERE DEMOLITION WORK IS TO BE PERFORMED.

Ceiling Legend

- EXISTING DIFFUSERS TO REMAIN. VERIFY WITH EXISTING CONDITIONS AND MECHANICAL DRAWINGS.
- EXISTING DIFFUSERS TO BE REMOVED, STORED AND REUSED WHEN POSSIBLE. SEE MECHANICAL DRAWINGS. DAMAGED DIFFUSERS TO BE DISCARDED. REUSED DIFFUSERS TO BE CLEANED AND PREPPED BEFORE REUSE.
- EXISTING 2' X 4' LIGHT FIXTURE TO BE REMOVED, STORED AND REUSED WHEN POSSIBLE.
- EXISTING 2' X 4' LIGHT FIXTURE TO REMAIN
- EXISTING WALL MOUNTED RESTROOM LIGHT FIXTURE TO REMAIN
- EXISTING SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED, STORED AND REUSED WHEN POSSIBLE.
- EXISTING PENDANT LIGHT FIXTURE TO BE REMOVED, STORED AND REUSED.
- EXISTING WALL MOUNTED LIGHT FIXTURE TO BE REMOVED
- EXISTING LINEAR SURFACE MOUNTED LIGHT FIXTURE TO BE REMAIN
- EXISTING LINEAR SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE
DATE: 06/22/2017

Key Notes

1. NO DEMO WORK TO BE DONE THIS AREA.
2. DEMOLISH EXISTING GYP. BD. CEILING. GYP. BD. SOFFIT ABOVE TO REMAIN. SEE DETAIL 1 ON SHEET AD3.10 FOR ADDITIONAL INFORMATION.
3. DEMOLISH EXISTING ACOUSTICAL CEILING TILE AND GRID.
4. DEMOLISH EXISTING HARD LID CEILING. PREP FOR NEW ACOUSTICAL CEILING TILE.

DETAIL (1)
SCALE: NTS

CITY OF LAS VEGAS NEVADA

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ALTA DAYCARE UPGRADES
DEMO REFLECTED CEILING PLAN

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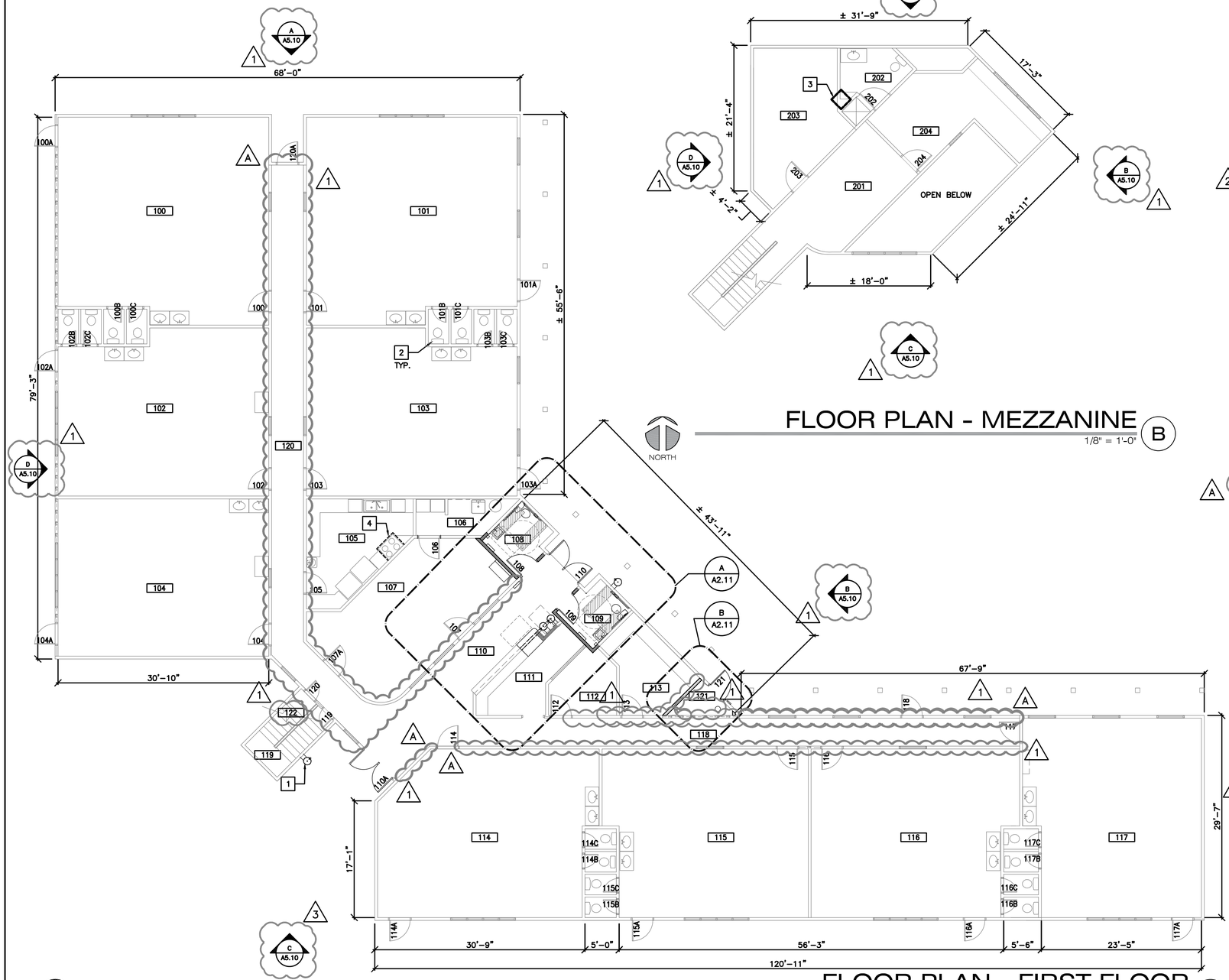
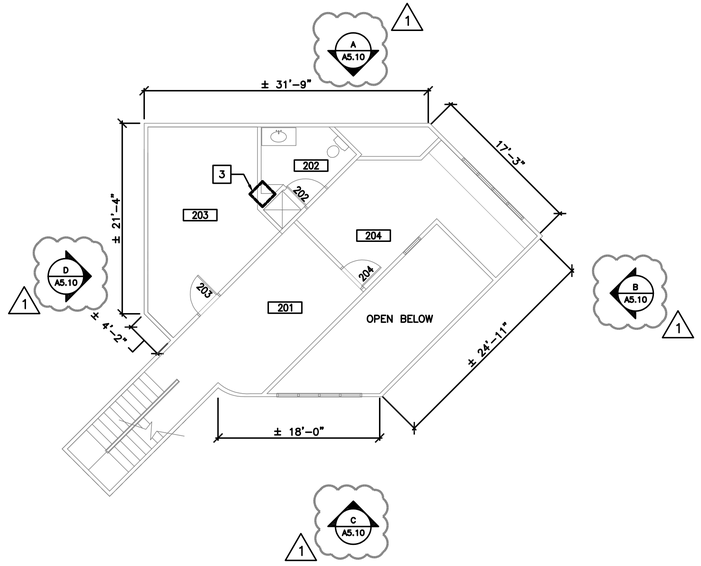


FLOOR PLAN - FIRST FLOOR (A)
1/8" = 1'-0"



FLOOR PLAN - MEZZANINE (B)
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SHEET NOTES

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D. DIMENSIONS INDICATED ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL DIMENSIONS.

2 E. REFER TO SHEET AG4.10 FOR TYPICAL PARTITION FRAMING DETAILS.

KEY NOTES

1 INSTALL NEW ADA COMPLAINT DRINKING FOUNTAIN.
2 EXISTING CLASS ROOM TOILETS TO REMAIN. PROVIDE FRP TO 60" A.F.F.
3 PROVIDE 2' X 2' CLEARANCE FOR EXHAUST SHAFT. SEE MECHANICAL DRAWINGS.
4 INSTALL TYPE 2 HOOD. SEE MECHANICAL DRAWINGS.

WALL LEGEND

SYMBOL	WALL DESCRIPTION	RATING	LISTED ASSEMBLY
	EXISTING WALL TO REMAIN	N/R	NONE
— 1Hr — 1Hr — 1Hr — 1Hr —	EXISTING RATED 1 HR. WALL TO REMAIN	N/A	N/A
	NEW 6" WOOD STUD WALL	N/R	NONE
A	NEW 6" WOOD RATED WALL	1-HR	1 3/AG4.10

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE

DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

REVISIONS
1 3/3/16 PLAN COMMENTS
1 3/14/16 PLAN COMMENTS
2 4/12/16PLAN COMMENTS

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DEPARTMENT OF PUBLIC WORKS

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ALTA DAYCARE UPGRADES
FLOOR PLANS

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DRAWN	CJT
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	A2.10

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ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

SHEET NOTES

A. SEE SHEET G1.00 FOR ALL ACCESSORY DIMENSIONS AND ADA COMPLIANCE.

B. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES – TYPICAL FOR MOUNTING AND WITH ADEQUATE SUPPORT TO MEET CODE REQUIREMENTS

C. INSULATE ALL LAVATORY AND HAND SINK EXPOSED DRAIN AND/OR HOT WATER PIPING BELOW FIXTURES PER ADAAG.

D. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START

E. ALL INSTALLATION TO COMPLY WITH THE LATEST EDITION OF THE TCA HANDBOOK

F. FOR THE CHILDREN'S RESTROOM, ALL MOUNTING HEIGHTS AND CLEARANCES FOR PLUMBING FIXTURES AND ACCESSORIES SHALL MEET THE REQUIREMENTS OF ADAAG APPENDIX A4.16.7

G. PATCH AND REPAIR EXISTING WALLS WHERE DEMOLITION OCCURS.

H. REFER TO SHEETS AG4.10 FOR TYPICAL PARTITION FRAMING DETAILS.

WALL LEGEND

SYMBOL	WALL DESCRIPTION	RATING	LISTED ASSEMBLY
	EXISTING WALL TO REMAIN	N/R	NONE
1FB — 1FB — 1FB — 1FB	EXISTING RATED 1 HR. WALL TO REMAIN	N/A	N/A
	NEW 6" WOOD STUD WALL	N/R	NONE
	NEW 6" WOOD RATED WALL	1-HR	3/AG4.10

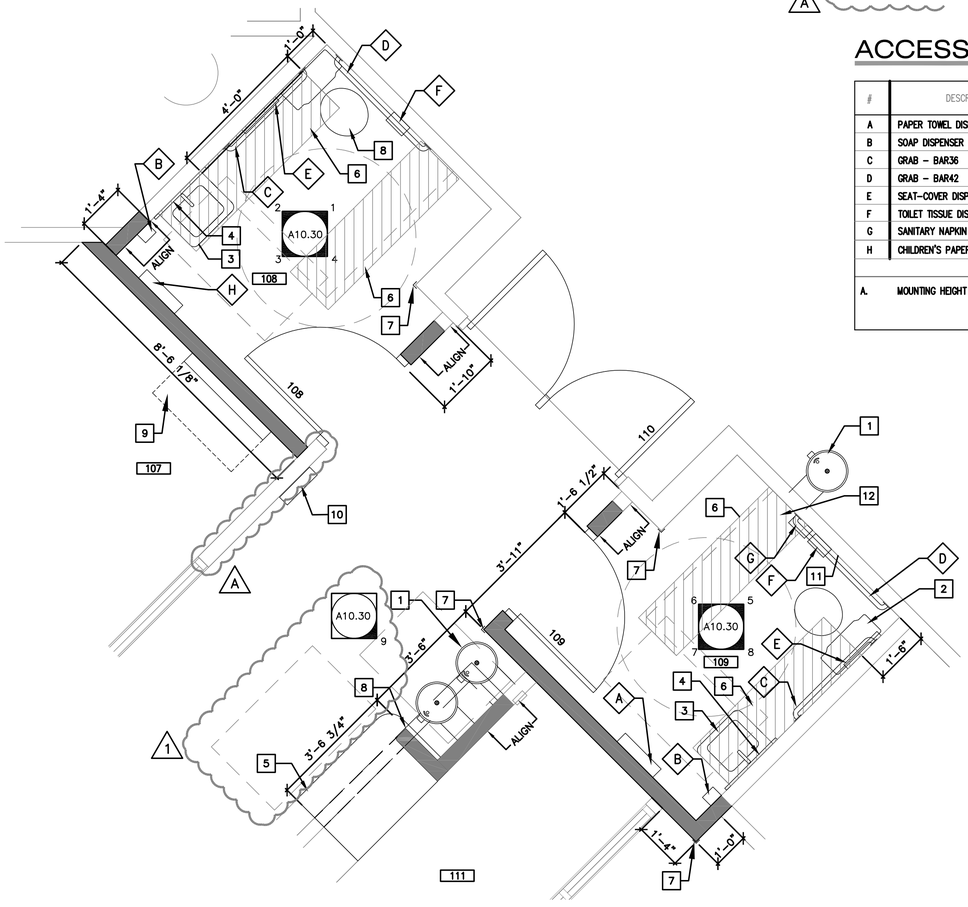
KEY NOTES

1. INSTALL NEW ADA DRINKING FOUNTAIN.
2. INSTALL ADA FLOOR MOUNTED TOILET.
3. INSTALL NEW ADA LAVATORY.
4. INSTALL PLATE GLASS MIRROR W/ 1/2" ALUMINUM FRAME.
5. ADD/ALT MODIFY EXISTING COUNTER TO PROVIDE 36" HIGH ADA ACCESSIBLE COUNTER.
6. INSTALL NEW CONCRETE SLAB. THICKNESS TO MATCH EXISTING.
7. 8'-0"H CORNER GUARD.
8. INSTALL NEW ADA FLOOR MOUNTED CHILDREN'S TOILET.
9. INSTALL BABY CHANGING STATION.
10. INSTALL NEW FIRE ALARM CONTROL PANEL.
11. PATCH AND REPAIR EXISTING GYP. BD. SURFACE. MATCH EXISTING TEXTURE.
12. INSTALL TYPE 2 FILL COMPACT TO 97% REPAIR VAPOR BARRIER, COVER WITH 4" 4500 PSI CONCRETE. TROWEL SMOOTH.
13. INSTALL NEW FIRE RISER. FIRE RISER ROOM TO BE BUG PROOF.
14. FIRE DEPARTMENT CONNECTOR.

ACCESSORY SCHEDULE

#	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING TYPE	MOUNTING HT.	REMARKS
A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	B-49344	RECESSED	44"	MOUNTING HEIGHT TO BE FROM FINISHED FLOOR TO OPENING
B	SOAP DISPENSER	BOBRICK	B-4112	SURFACE	33"	
C	GRAB – BAR36	BOBRICK	B-6206	SURFACE	33"	MOUNTING HEIGHT AT 25" IN CHILDRENS RESTROOM PER ADAAG
D	GRAB – BAR42	BOBRICK	B-6206	SURFACE	33"	MOUNTING HEIGHT AT 25" IN CHILDRENS RESTROOM PER ADAAG
E	SEAT-COVER DISPENSER	BOBRICK	B-4221	SURFACE	36"	MOUNTING HEIGHT AT 17" IN CHILDRENS RESTROOM PER ADAAG
F	TOILET TISSUE DISPENSER	BOBRICK	B-4288	SURFACE	22"	MOUNTING HEIGHT AT 17" IN CHILDRENS RESTROOM PER ADAAG
G	SANITARY NAPKIN DISPOSAL	BOBRICK	B-435009	SURFACE	22"	
H	CHILDREN'S PAPER TOWEL DISPENSER	BOBRICK	B-4262	SURFACE		MOUNTING HEIGHT AT 24" FROM FINISHED FLOOR TO OPENING

A. MOUNTING HEIGHT TO BE FROM FINISHED FLOOR TO THE CENTERLINE OF FIXTURE, U.N.O.



ENLARGED FLOOR PLAN - FIRST FLOOR (A)
1/2" = 1'-0"

NORTH

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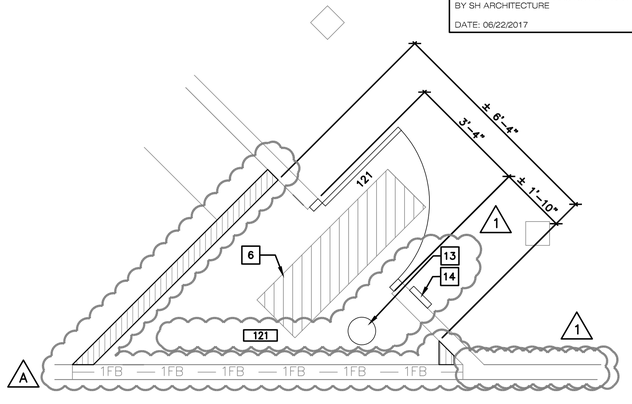

ENLARGED FLOOR PLAN - FIRST FLOOR (B)
1/2" = 1'-0"

NORTH

CITY OF LAS VEGAS NEVADA

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3 7/18/16 REVISIONS

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ALTA DAYCARE UPGRADES
ENLARGED FLOOR PLAN

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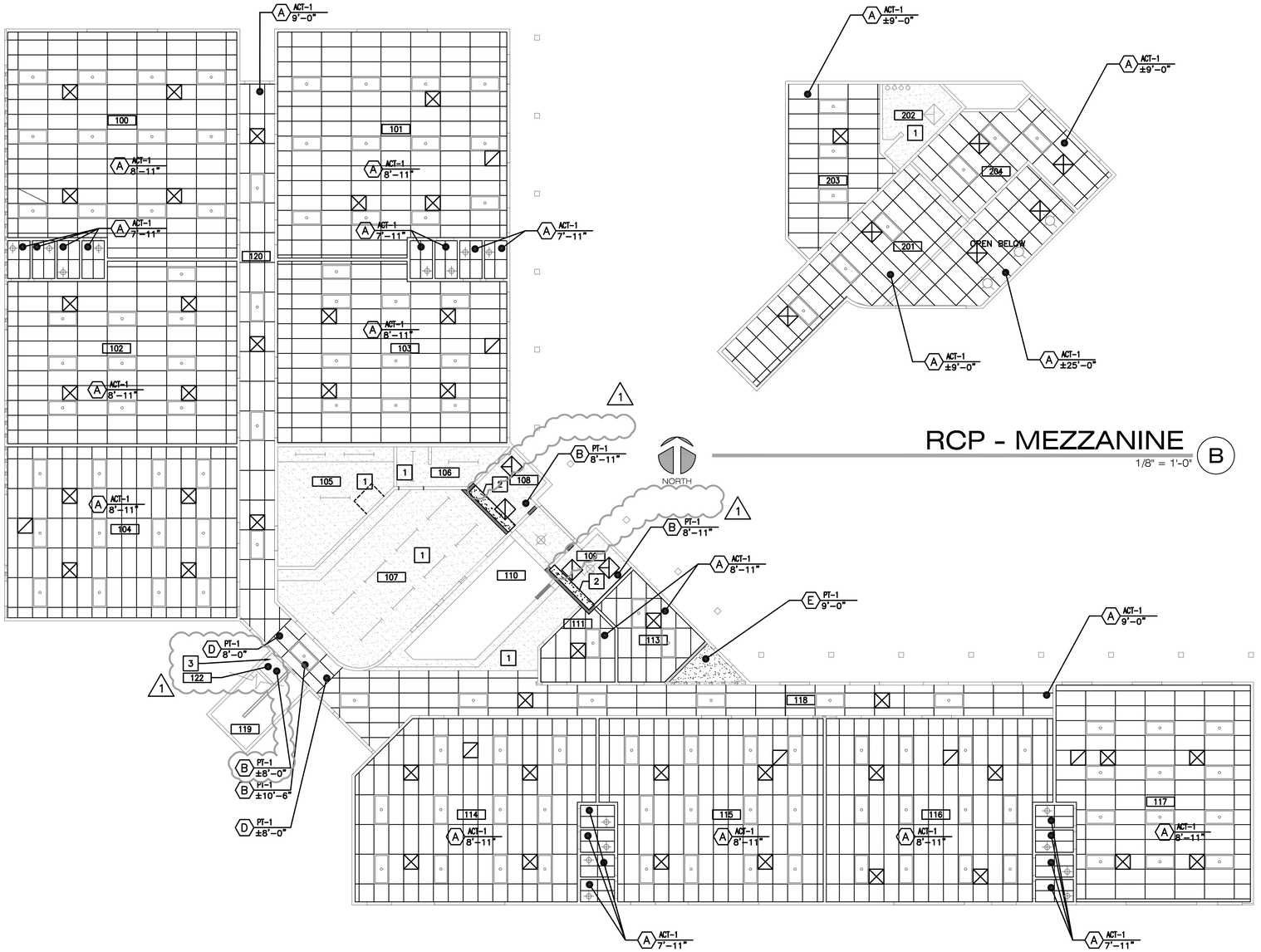

RCP - MEZZANINE

1/8" = 1'-0" B

REFLECTED CEILING PLAN - FIRST FLOOR

1/8" = 1'-0" A

NORTH

CEILING LEGEND

SYMBOL	DESCRIPTION
A FINISH HEIGHT	NEW 2X4 LAY-IN ACOUSTICAL CEILING TILE, SEE DETAIL 1/A3.11
B FINISH HEIGHT	EXISTING FRAMED GYP. BD. CEILING TO REMAIN
C FINISH HEIGHT	NOT USED
D FINISH HEIGHT	NEW FRAMED GYP. BD. HEADER, PAINTED, SEE DETAIL 2/AG4.10
E FINISH HEIGHT	NEW FRAMED GYP. BD. CEILING, PAINTED, SEE DETAIL 3/A3.11

FIXTURE LEGEND

SYMBOL	DESCRIPTION
	RECESSED DOWN LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	RECESSED 2X4 OR 2X2 LAY-IN LIGHT FIXTURE
	PENDANT MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED STRIP FLUORESCENT LIGHT FIXTURE
	CHAIN-MOUNTED STRIP FLUORESCENT LIGHT FIXTURE
	CEILING MOUNTED ILLUMINATED EXIT SIGN
	WALL MOUNTED ILLUMINATED EXIT SIGN
	BATTERY PACK
	CEILING SPEAKER
	WALL MOUNTED SPEAKER
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	SECURITY CAMERA
	ACCESS PANEL
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER / EXHAUST
	EXHAUST FAN
	CHANDELIER
	SMOKE DETECTOR

ROOM LEGEND

ROOM NO.	DESCRIPTION
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116	CLASSROOM
117	CLASSROOM
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119	STAIRS
120	CORRIDOR
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203	STORAGE
204	ADMINISTRATION

Key Notes

1. NO WORK TO BE DONE THIS AREA.
2. INSTALL GYP. BD. CEILING TO NEW AREA. HEIGHT TO MATCH EXISTING. SEE DETAIL 3 ON SHEET A3.11 FOR ADDITIONAL INFORMATION.
3. EXISTING 1-HOUR RATED CEILING ABOVE.

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
REFLECTED CEILING PLAN

REVISIONS
1 3/14/16 PLAN COMMENTS
2 5/9/16 PLAN COMMENTS

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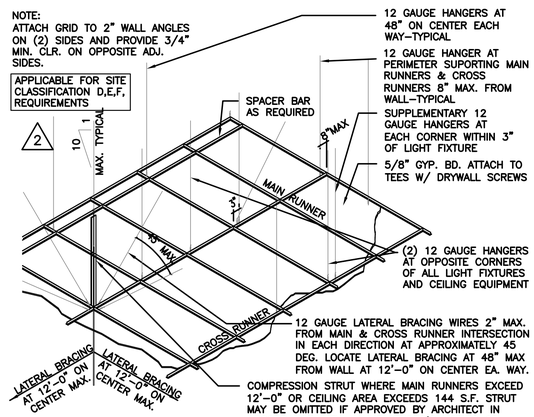
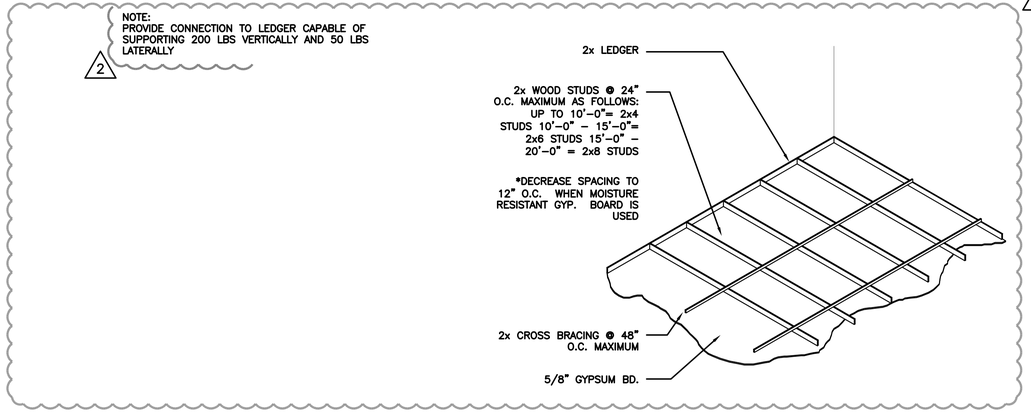


DETAIL 1 — 1/2" = 1'-0"

M102-03



GYPSUM BOARD CEILING - WOOD FRAME 3 — 3" = 1'-0"

M102-02

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ALTA DAYCARE UPGRADES
CEILING DETAILS

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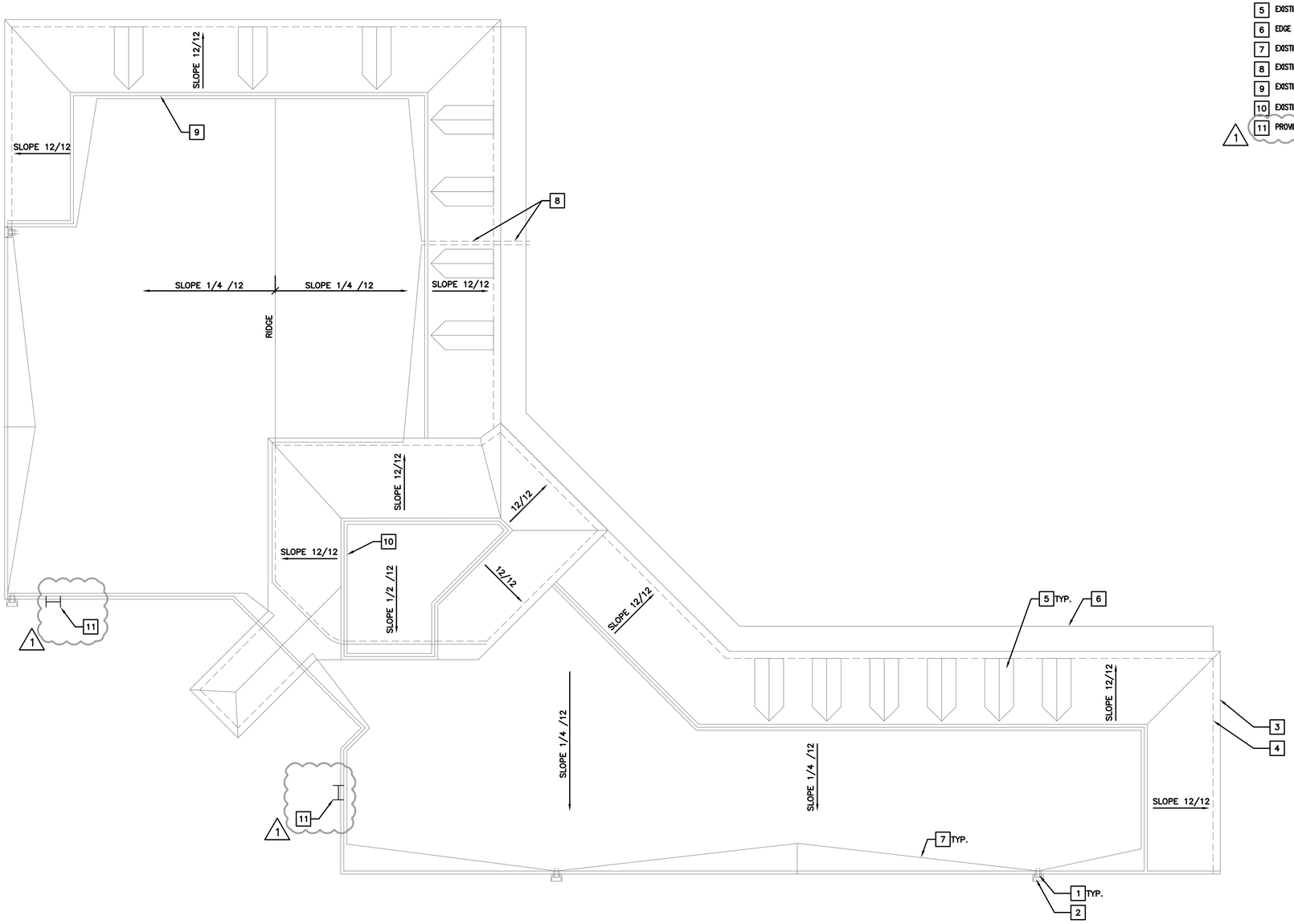

NORTH

EXISTING ROOF PLAN

1/8" = 1'-0"

KEY NOTES

1. EXISTING SCUPPER (TYP.)
2. EXISTING DOWNSPROUT AND SPLASH BLOCK
3. EDGE OF ROOF 12" OVERHANG
4. EDGE OF BUILDING BELOW
5. EXISTING DORMER (TYP.)
6. EDGE OF ROOF 4'-6" OVERHANG
7. EXISTING CRICKET (TYP.)
8. EXISTING DOWNSPROUT UNDER WALK TO PARKING
9. EXISTING PARAPET WALL
10. EXISTING PARAPET WALL/CANT
11. PROVIDE NEW PERMANENT EXTERIOR LADDER WITH 6' H SOLID HINGE PANEL WITH HASP AND PADLOCK.

1

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ALTA DAYCARE UPGRADES
EXISTING ROOF PLAN

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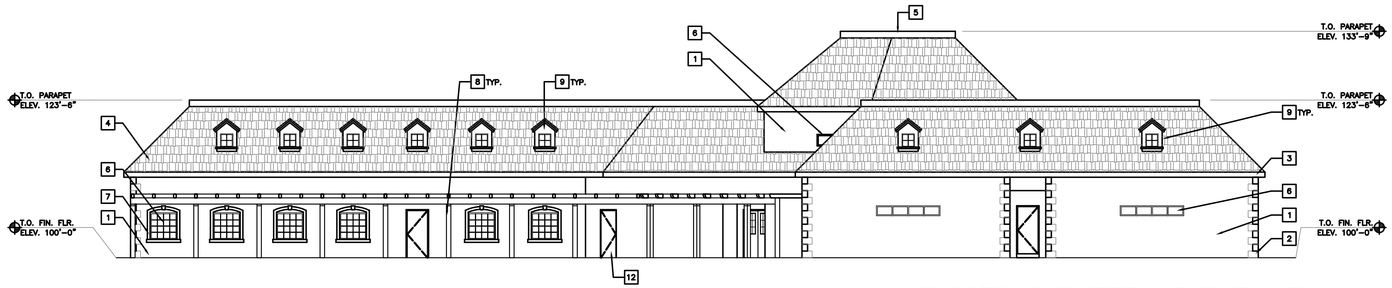
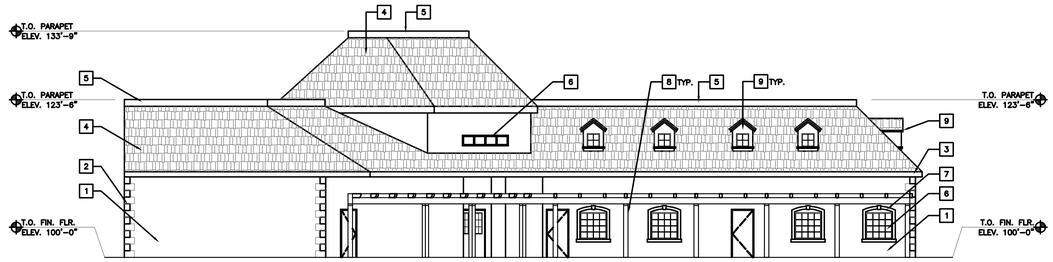
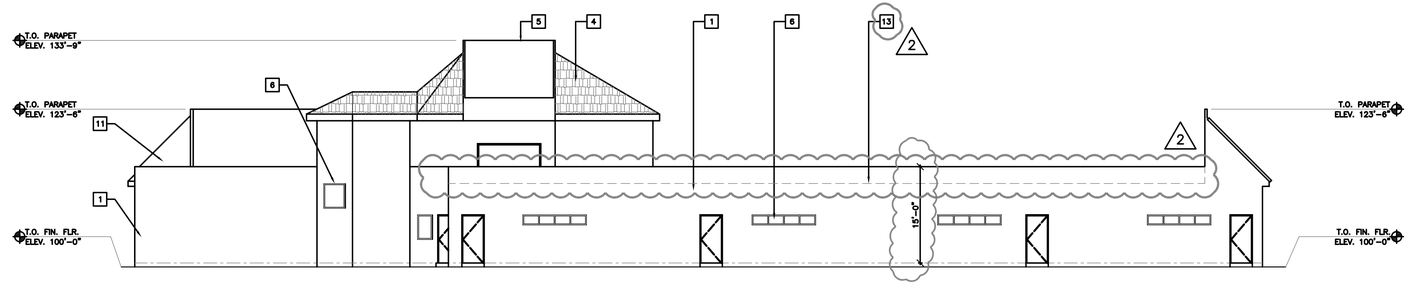


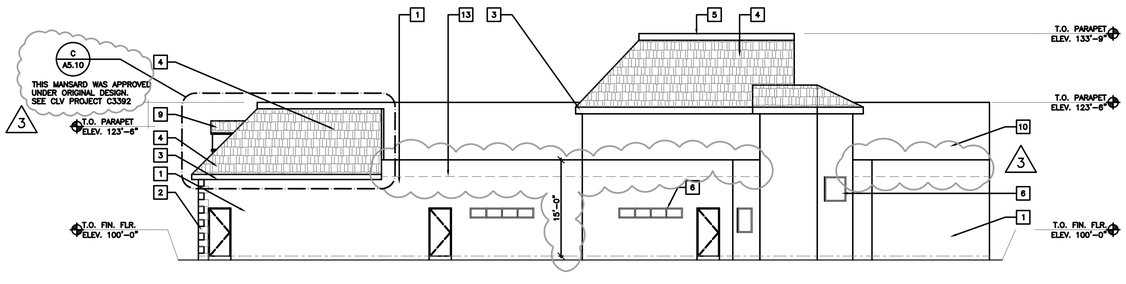
EXISTING EXTERIOR ELEVATION A
3/32" = 1'-0"



EXISTING EXTERIOR ELEVATION B
3/32" = 1'-0"



EXISTING EXTERIOR ELEVATION C
3/32" = 1'-0"



EXISTING EXTERIOR ELEVATION D
3/32" = 1'-0"

SHEET NOTES

A. PATCH AND REPAIR EXISTING STUCCO EXTERIOR WALLS WHERE DEMOLITION OCCURS.

B. ADD/ALT PAINT ALL EXTERIOR WALLS.

KEY NOTES

1. EXISTING STUCCO EXTERIOR WALLS
2. EXISTING QUOINES
3. EXISTING STUCCO FACIA
4. EXISTING CONCRETE TILE
5. EXISTING PARAPET – STUCCO
6. EXISTING ALUMINUM WINDOW
7. EXISTING PREFORMED WINDOW SURROUNDS
8. EXISTING WOOD BEAM COLUMN
9. EXISTING DORMER
10. EXISTING PARAPET BEYOND – STUCCO
11. LINE OF CONCRETE TILE BEYOND
12. NEW DOOR TO FIRE RISER ROOM
13. LINE OF ROOF BEYOND WITH 30" PARAPET

2

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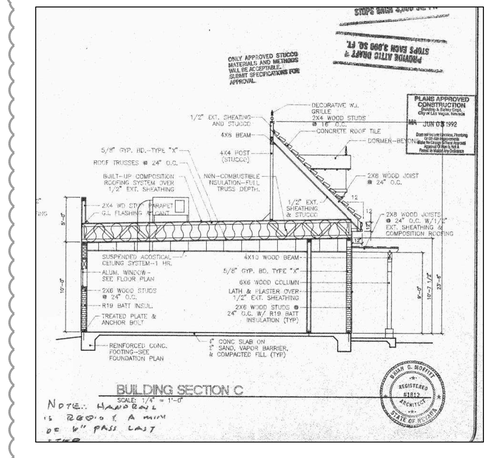

SECTION C C
1/8" = 1'-0"

3

CITY OF LAS VEGAS NEVADA

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ALTA DAYCARE UPGRADES
EXISTING EXTERIOR ELEVATIONS

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Key Notes

1. EXISTING FLOORING TO REMAIN.
2. FILL SUBFLOORING WITH CERAMIC TILE TO MATCH EXISTING. PATCH AND REPAIR EXISTING FLOORING AS REQUIRED.
3. PROVIDE 5'-0" FRP-1 ALL WET WALLS.
4. PROVIDE 5'-0" FRP-1 BEHIND SINK.

Sheet Notes

A. PROTECT ALL EXISTING FINISHES, FURNITURE, EQUIPMENT, ETC. TO REMAIN DURING CONSTRUCTION. REPAIR ANY DAMAGES CAUSED TO EXISTING FINISHES DURING CONSTRUCTION.

B. ALL NEW WALLS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.

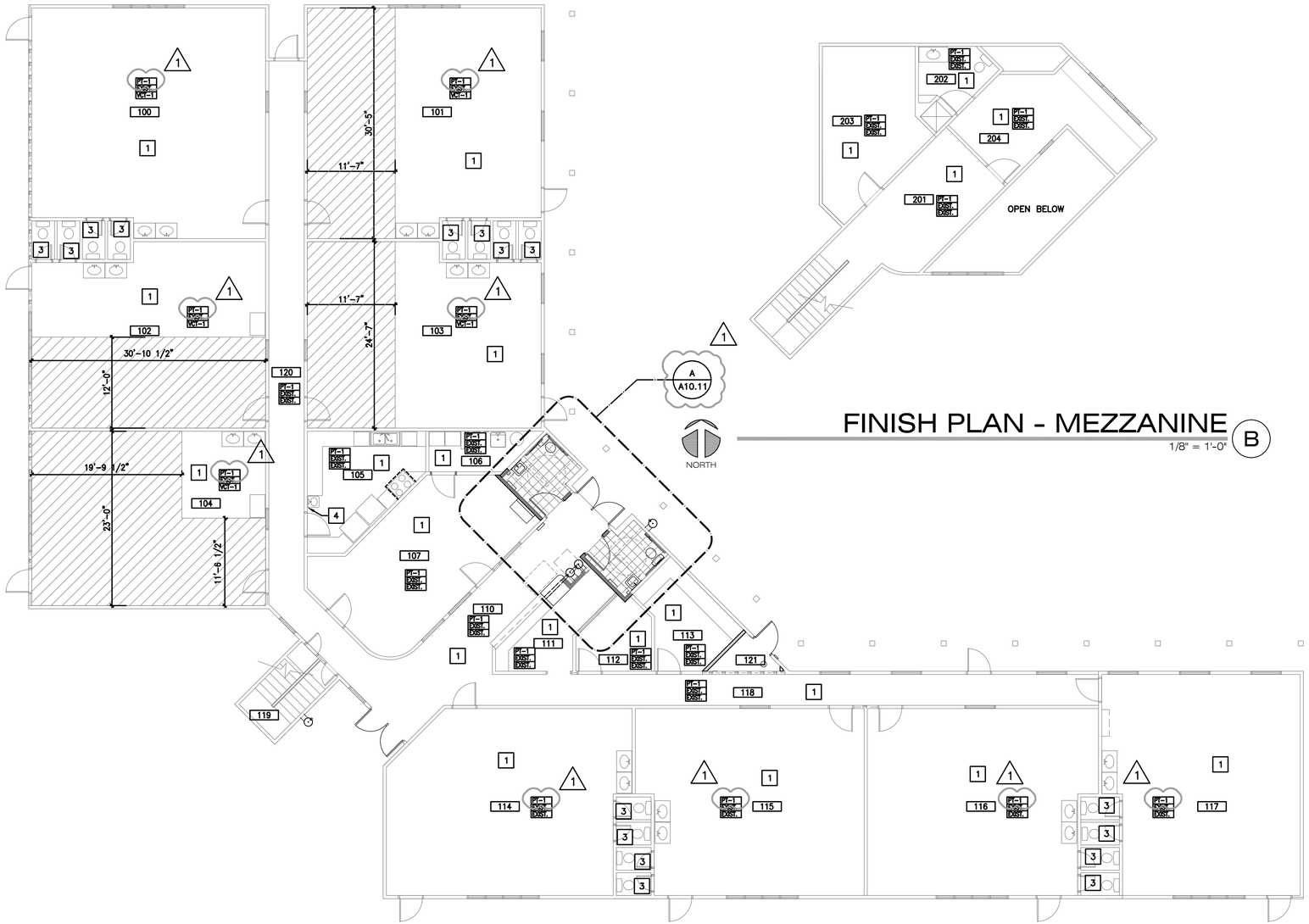
C. INSTALL RB-1 IN AREAS WITH NEW VCT UNLESS NOTED OTHERWISE. REPAIR DAMAGED RUBBER BASE WHERE IT OCCURS. INSTALL CB-1 IN AREAS WITH CERAMIC TILE UNLESS NOTED OTHERWISE.

D. EXISTING THRESHOLDS AT ENTRIES SHOULD REMAIN AND BE CLEANED IF IN GOOD CONDITION. REPLACE IF NECESSARY WITH MATCHING THRESHOLD. NOTIFY ARCHITECT IF EXISTING CONDITIONS SHOULD REQUIRE NEW, UNFORESEEN TRANSITION STRIPS.

E. THROUGLY STRIP, CLEAN AND REWAX ALL EXISTING VCT FLOORING TO REMAIN TO MAKE LIKE NEW.

FINISH PLAN - MEZZANINE

1/8" = 1'-0" B



FINISH PLAN - FIRST FLOOR

1/8" = 1'-0" A

Finish Schedule

CEILING
- ACT-1 — ARMSTRONG #1714 SCHOOL ZONE FINE FISSURED, 2 X 4

PAINT
- PT-1 — VISTA PAINT, WARM OYSTER
- PT-2 — NOT PLACED
- PT-3 — NOT PLACED
- PT-4 — NOT PLACED
- PT-5 — NOT PLACED
- PT-6 — NOT PLACED

VINYL COMPOSITION TILE
- VCT-1 — NOT INSTALLED

RUBBER BASE
- RB-1 — NOT INSTALLED

CERAMIC TILE
- CT-1 — DALTILE, SEMI-GLOSS, 0191 ARCTIC WHITE, 4-1/4" X 4-1/4" (FIELD)
- CT-2 — DALTILE, SEMI-GLOSS, 0DMI VERMILLION, 4-1/4" X 4-1/4" (10% RANDOM)
- CT-3 — DALTILE, SEMI-GLOSS, DM14 COBALT, 4-1/4" X 4-1/4" (10% RANDOM)
- CT-4 — DALTILE, SEMI-GLOSS, SUNFLOWER DH50, 4-1/4" X 4-1/4" (10% RANDOM)
- CT-5 — DALTILE, PARKWAY, PK95 CREAM, 12"X12"

CERAMIC BASE
- CB-1 — DALTILE, SEMI-GLOSS, A-3401, 0191 ARCTIC WHITE,4-1/4" X 4-1/4"

GROUT
- GT-1 — LATICRETE, 24 NATURAL GREY

FIBERGLASS REINFORCED PANELS
- FRP-1 — MARLITE P-100 WHITE

MATERIAL TRANSITIONS
- TS-1 — TO MATCH EXISTING

Finish Legend

- NEW CERAMIC TILE, (CT-5). IN AREAS WITH (CT-5) USE BASE (CB-1).
- FLOORING NOT PLACED
- PAINT / BASE / FLOOR — ROOM FINISH SYMBOL

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
109	ADULT UNISEX RESTROOM
110	LOBBY
111	FRONT DESK
112	DIRECTOR
113	COMPUTERS
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CORRIDOR
119	STAIRS
120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE

DATE: 06/22/2017

REVISIONS
1 3/14/16PLAN COMMENTS

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
FINISH PLANS

STAMP
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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
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PHONE: (702) 229-6535
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TDD: (702) 386-9108

DRAWN	CJT
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	A10.10

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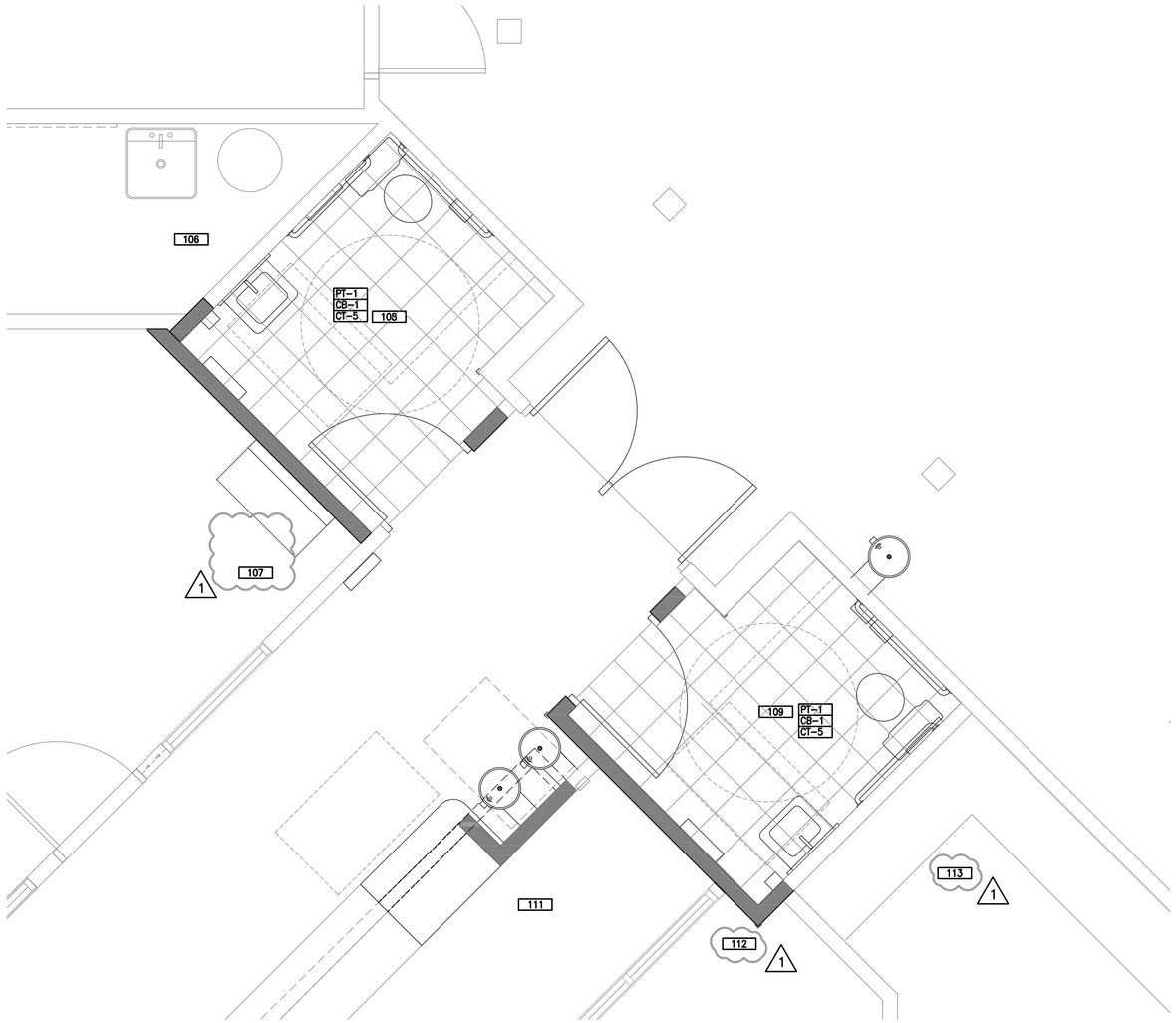

ENLARGED FINISH PLAN - FIRST FLOOR

1/2" = 1'-0"

A

NORTH

Finish Legend

NEW CERAMIC TILE, (CT-5). IN AREAS WITH (CT-5) USE BASE (CB-1).

FLOORING NOT PLACED

PAINT
BASE
FLOOR

ROOM FINISH SYMBOL

Sheet Notes

A. PROTECT ALL EXISTING FINISHES, FURNITURE, EQUIPMENT, ETC. TO REMAIN DURING CONSTRUCTION. REPAIR ANY DAMAGES CAUSED TO EXISTING FINISHES DURING CONSTRUCTION.

B. ALL NEW WALLS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.

C. INSTALL RB-1 IN AREAS WITH NEW VCT UNLESS NOTED OTHERWISE. REPAIR DAMAGED RUBBER BASE WHERE IT OCCURS. INSTALL CB-1 IN AREAS WITH CERAMIC TILE UNLESS NOTED OTHERWISE.

D. EXISTING THRESHOLDS AT ENTRIES SHOULD REMAIN AND BE CLEANED IF IN GOOD CONDITION. REPLACE IF NECESSARY WITH MATCHING THRESHOLD. NOTIFY ARCHITECT IF EXISTING CONDITIONS SHOULD REQUIRE NEW, UNFORESEEN TRANSITION STRIPS.

E. THROUGLY STRIP, CLEAN AND REWAX ALL EXISTING VCT FLOORING TO REMAIN TO MAKE LIKE NEW.

Finish Schedule

CEILING
ACT-1 ARMSTRONG #1714 SCHOOL ZONE FINE FISSURED, 2 X 4

PAINT
PT-1 VISTA PAINT, WARM OYSTER
PT-2 NOT PLACED
PT-3 NOT PLACED
PT-4 NOT PLACED
PT-5 NOT PLACED
PT-6 NOT PLACED

VINYL COMPOSITION TILE
VCT-1 NOT INSTALLED

RUBBER BASE
RB-1 NOT INSTALLED

CERAMIC TILE
CT-1 DALTILE, SEMI-GLOSS, 0191 ARCTIC WHITE, 4-1/4" X 4-1/4" (FIELD)
CT-2 DALTILE, SEMI-GLOSS, 0DM1 VERMILLION, 4-1/4" X 4-1/4" (10% RANDOM)
CT-3 DALTILE, SEMI-GLOSS, DM14 COBALT, 4-1/4" X 4-1/4" (10% RANDOM)
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CT-5 DALTILE, PARKWAY, PK95 CREAM, 12"X12"

CERAMIC BASE
CB-1 DALTILE, SEMI-GLOSS, A-3401, 0191 ARCTIC WHITE,4-1/4" X 4-1/4"

GROUT
GT-1 LATICRETE, 24 NATURAL GREY

FIBERGLASS REINFORCED PANELS
FRP-1 MARLITE P-100 WHITE

MATERIAL TRANSITIONS
TS-1 TO MATCH EXISTING

Key Notes

1. EXISTING FLOORING TO REMAIN.
2. FILL SUBFLOORING WITH CERAMIC TILE TO MATCH EXISTING. PATCH AND REPAIR EXISTING FLOORING AS REQUIRED.
3. PROVIDE 5'-0" FRP-1 ALL WET WALLS.
4. PROVIDE 5'-0" FRP-1 BEHIND SINK.

ROOM LEGEND

ROOM NO.	DESCRIPTION
101	CLASSROOM
102	CLASSROOM
103	CLASSROOM
104	CLASSROOM
105	KITCHEN
106	MECH
107	OFFICE
108	CHILDRENS UNISEX RESTROOM
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111	FRONT DESK
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116	CLASSROOM
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120	CORRIDOR
121	FIRE RISER ROOM
122	STORAGE
201	OPEN OFFICE
202	BATH
203	STORAGE
204	ADMINISTRATION

1

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY SH ARCHITECTURE

DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

REVISIONS
1 3/14/16PLAN COMMENTS

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www.sharchitecture.com

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
ENLARGED FINISH PLAN

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY JOHN A. SAWDON ARCHITECT NO. 4058 ON 03/14/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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TDD: (702) 386-9108

DRAWN	CJT
FILE	
DATE	02/08/2016
SCALE	
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	A10.11

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SHEET NOTES

A. SEE SHEET G1.00 FOR ALL ACCESSORY DIMENSIONS AND ADA COMPLIANCE.

B. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES – TYPICAL FOR MOUNTING AND WITH ADEQUATE SUPPORT TO MEET CODE REQUIREMENTS

C. INSULATE ALL LAVATORY AND HAND SINK EXPOSED DRAIN AND/OR HOT WATER PIPING BELOW FIXTURES PER ADA STANDARDS.

D. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START

E. ALL INSTALLATION TO COMPLY WITH THE LATEST EDITION OF THE TCA HANDBOOK

F. FOR THE CHILDREN'S RESTROOM, ALL MOUNTING HEIGHTS AND CLEARANCES FOR PLUMBING FIXTURES AND ACCESSORIES SHALL MEET THE REQUIREMENTS OF ADAAG APPENDIX A4.16.7

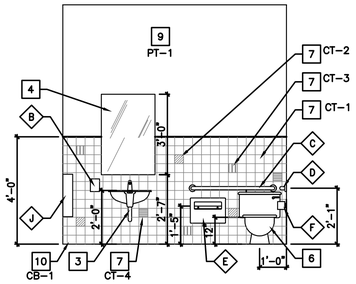
KEY NOTES

1 INSTALL NEW ADA DUAL DRINKING FOUNTAIN.
2 INSTALL NEW ADA FLOOR MOUNTED TOILET.
3 INSTALL NEW ADA LAVATORY.
4 INSTALL PLATE GLASS MIRROR W/ 1/2" ALUMINUM FRAME.
5 ADD/ALT MODIFY EXISTING COUNTER TO PROVIDE 36" HIGH ADA ACCESSIBLE COUNTER.
6 INSTALL NEW ADA FLOOR MOUNTED CHILDREN'S TOILET.
7 CERAMIC TILE, AS SCHEDULED.
8 RELOCATED EXISTING DOOR AND FRAME.
9 PAINTED WALL, AS SCHEDULED.
10 CERAMIC TILE BASE, AS SCHEDULED.
11 RUBBER BASE, AS SCHEDULED.

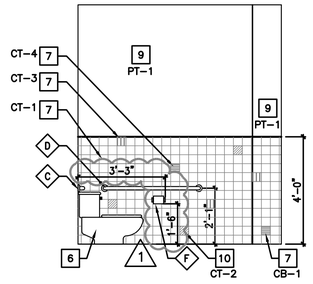
ACCESSORY SCHEDULE

#	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING TYPE	MOUNTING HT.	REMARKS
A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	B-43944	RECESSED	44"	MOUNTING HEIGHT TO BE FROM FINISHED FLOOR TO OPENING
B	SOAP DISPENSER	BOBRICK	B-4112	SURFACE	33"	
C	GRAB – BAR36	BOBRICK	B-6206	SURFACE	33"	MOUNTING HEIGHT AT 25" IN CHILDRENS RESTROOM PER ADAAG
D	GRAB – BAR42	BOBRICK	B-6206	SURFACE	33"	MOUNTING HEIGHT AT 25" IN CHILDRENS RESTROOM PER ADAAG
E	SEAT-COVER DISPENSER	BOBRICK	B-4221	SURFACE	36"	MOUNTING HEIGHT AT 17" IN CHILDRENS RESTROOM PER ADAAG
F	TOILET TISSUE DISPENSER	BOBRICK	B-4288	SURFACE	22"	MOUNTING HEIGHT AT 17" IN CHILDRENS RESTROOM PER ADAAG
G	SANITARY NAPKIN DISPOSAL	BOBRICK	B-435009	SURFACE	22"	
H	CHILDREN'S PAPER TOWEL DISPENSER	BOBRICK	B-4262	SURFACE	24"	MOUNTING HEIGHT AT 24" FROM FINISHED FLOOR TO OPENING

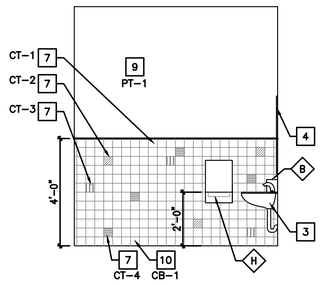
A. MOUNTING HEIGHT TO BE FROM FINISHED FLOOR TO THE CENTERLINE OF UNIT, U.N.O.



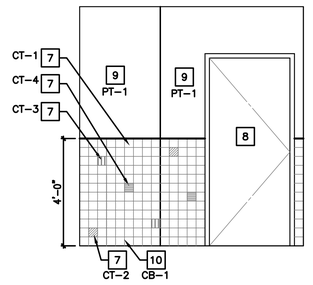
ELEVATION 1
3/8" = 1'-0"



ELEVATION 2
3/8" = 1'-0"



ELEVATION 3
3/8" = 1'-0"



ELEVATION 4
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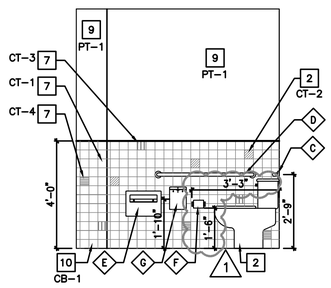

ELEVATION 5
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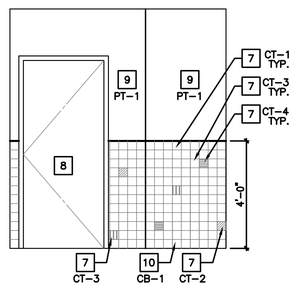
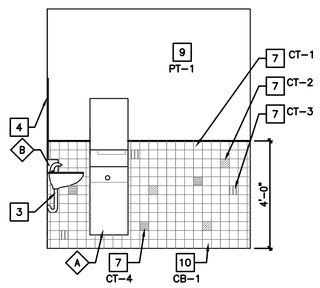


ELEVATION 6
3/8" = 1'-0"



ELEVATION 7
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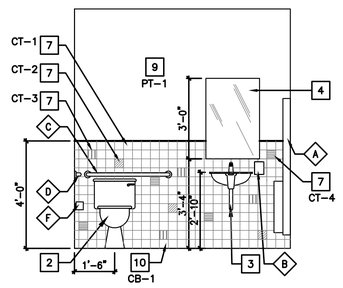
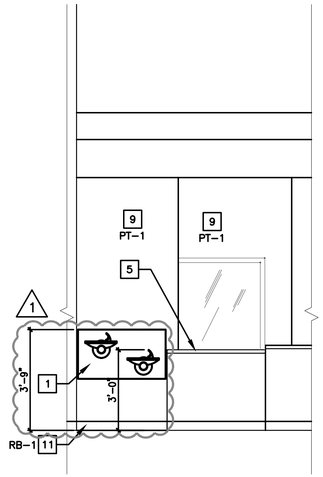


ELEVATION 8
3/8" = 1'-0"



ELEVATION 9
3/8" = 1'-0"

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DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

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1 3/14/16PLAN COMMENTS
5 7/18/16 REVISIONS

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ALTA DAYCARE UPGRADES
INTERIOR ELEVATIONS

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DRAWN	CJT
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DATE	02/08/2016
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BID NO	15.60316.JH
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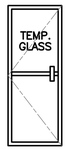
DOOR TYPES



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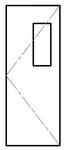

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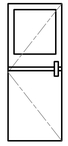

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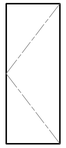

TYPE "D"

HARDWARE SETS

SET	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
01	6 EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
	1 EA	KEYED REMOVABLE MULLION	KR4954-STAB-M754	SP28	VON
	1 EA	PANIC HARDWARE	XP-98-EO	626	VON
	1 EA	PANIC HARDWARE	XP-98-NL-OP-110MD-US26D	626	VON
	1 EA	SFIC MORTISE CYL.	80-110-USE WITH KR MULLION	626	SCH
	1 EA	SFIC RIM CYLINDER	80-116	626	SCH
	2 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	2 EA	90 DEG OFFSET PULL	8190HD 10"L	626	IVE
	2 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	2 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	RAIN DRIP	142A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	328AA	AA	ZER
	1 EA	MULLION SEAL	878ON	N	ZER
	2 EA	DOOR SWEET	39A	A	ZER
	1 EA	THRESHOLD	613 OR PER DETAIL	AL	ZER
02	6 EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
	1 EA	KEYED REMOVABLE MULLION	KR4954-B-STAB	SP28	VON
	1 EA	PANIC HARDWARE	XP-98-EO	626	VON
	1 EA	PANIC HARDWARE	XP-98-NL-OP-110MD-US26D	626	VON
	1 EA	SFIC MORTISE CYL.	80-110	626	SCH
	1 EA	SFIC RIM CYLINDER	80-116	626	SCH
	2 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	ELECTRIC STRIKE	6300 FSE	630	VON
	2 EA	90 DEG OFFSET PULL	8190HD 10"L	626	IVE
	2 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	MULLION SEAL	878ON	N	ZER
	1 EA	THRESHOLD	613 OR PER DETAIL	AL	ZER
	1 EA	MULLION MOUNT KEYPAD	KP212		SCE
	1 EA	HORN	1910-1	WHT	SCE
	1 EA	PUSH BUTTON	621ALRDEX NS	629	SCE
	1 EA	DESK MOUNT BUTTON	660-PB	628	SCE
	1 EA	POWER SUPPLY	PS902	LGR	VON
03	3 EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
	1 EA	STOREROOM LOCK	9K37 D 16C	626	BES
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	LOCK GUARD	LG1	630	IVE
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	RAIN DRIP	142A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	382AA	AA	ZER
	1 EA	DOOR SWEEP	39A REUSE BALANCE OF DOOR, FRAME AND HARDWARE	A	ZER
04	1 EA	CONT. HINGE	157XY	628	IVE
	1 EA	FIRE EXIT HARDWARE	XP-98-EO-F	626	VON
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	FLOOR STOP	FS444	626	IVE
	1 EA	RAIN DRIP	142A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	328AA	AA	ZER
	1 EA	DOOR SWEEP	39A	A	ZER
	1 EA	FILLER PLATE	DOOR STRIKE FILLER PLATE-EF-161 -AS REQUIRED	600	DON
	1 EA	FILLER PLATE	DOOR STRIKE FILLER PLATE HF-45 -AS REQUIRED	600	DON
	1 EA	FILLER PLATE	FRAME STRIKE FILLER PLATE FS-260 -AS REQUIRED	600	DON
	1 EA	FILLER PLATE	FRAME STRIKE FILLER PLATE-FF45 -AS REQUIRED	600	DON
	1 EA	HINGE GUARD	973AA	GRY	ZER
05	3 EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
	1 EA	PANIC HARDWARE	XP-98-L-07	626	VON
	1 EA	SFIC RIM CYLINDER	80-116	626	SCH
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	RAIN DRIP	142A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	328AA	AA	ZER
	1 EA	DOOR SWEEP	39A REUSE BALANCE OF DOOR,FRAME AND HARDWARE	A	ZER
06	1 EA	SURFACE CLOSER	8400 10"X2" LDW B-CS	689	LCN
	1 EA	KICK PLATE	142A-OMIT WHERE SHELTERED	630	IVE
	1 EA	RAIN DRIP	328AA	AL	ZER
	1 EA	GASKETING	39A	AA	ZER
	1 EA	DOOR SWEEP	REUSE BALANCE OF DOOR, FRAME AND HARDWARE REUSE EXISTING PANIC HARDWARE	A	ZER
07	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	STOREROOM LOCK	9K37 D 16C	626	BES
	1 EA	PERMANANET CORE	MATCH CITY STANDARDS	626	BES
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	IVE
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV REUSE BALANCE OF DOOR, FRAME AND HARDWARE	630	IVE
08	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	CLASSROOM LOCKSET	9K37R 16C	626	BES
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV REUSE BALANCE OF DOOR, FRAME AND HARDWARE	630	IVE
10	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	PASSAGE SET	9K30N 16C	626	SCH
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	689	LCN
	1 EA	WALL STOP	WS406-407CCV REUSE BALANCE OF DOOR, FRAME AND HARDWARE	630 630 GRY	IVE IVE IVE
11	REUSE EXISTING DOORS, FRAMES AND HARDWARE				
12	1 EA	PANIC HARDWARE	XP-98-L-07-WH	626	VON
	1 EA	SFIC RIM CYLINDER	80-116	626	SCH
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	WELDABLE GATE BOX, PIVOTS AND CLOSER BY GATE MANUFACTURER				
13	1 EA	PANIC HARDWARE	XP-98-EO-WH	626	VON
	WELDABLE GATE BOX, PIVOTS AND CLOSER BY GATE MANUFACTURER				
14	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV	630	IVE
	1 EA	GASKETING	188S-BK	S-BK	ZER
	1 EA	HINGE GUARD	973AA	GRY	ZER
	1 EA	HINGE GUARD	974AA REUSE BALANCE OF DOOR, FRAME AND HARDWARE	GRY	ZER
15	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	STOREROOM LOCK	9K37 D 16C	626	BES
	1 EA	PERMANENT CORE	MATCH CITY STANDARDS	626	BES
	1 EA	SURFACE CLOSER	4040 XP RW/PA	689	LCN
	1 EA	KICK PLATE	840 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV	630	IVE
	1 EA	GASKETING	188S-BK REUSE BALANCE OF DOOR, FRAME AND HARDWARE	S-BK	ZER
16	3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	WALL STOP	WS406/407CCV	630	IVE
	1 EA	GASKETING	188S-BK REUSE BALANCE OF DOOR, FRAME AND HARDWARE	S-BK	ZER
17	1 EA	CONT. HINGE	157XY	628	IVE
	1 EA	FIRE EXIT HARDWARE	XP-98-EO-F	626	SCH
	1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
	1 EA	KICK PLATE	8400 10"X2" LDW B-CS	630	IVE
	1 EA	FLOOR STOP	FS444	626	IVE
	1 EA	RAIN DRIP	12A-OMIT WHERE SHELTERED	AL	ZER
	1 EA	GASKETING	328AA	AA	ZER
	1 EA	DOOR SWEEP	39A	A	ZER
	1 EA	FILLER PLATE	DOOR STRIKE FILLER PLATE EF-161AS REQUIRED	600	DON
	1 EA	FILLER PLATE	DOOR STRIKE FILLER PLATE HF-45 AS REQUIRED	600	DON
	1 EA	FILLER PLATE	FRAME STRIKE FILLER PLATE FS-260 AS REQUIRED	600	DON
	1 EA	FILLER PLATE	FRAME STRIKE FILLER PLATE FF45 AS REQUIRED	600	DON
	1 EA	HINGE GUARD	973AA REUSE BALANCE OF DOOR, FRAME AND HARDWARE	GRAY	ZER

DOOR SCHEDULE

NO.	TYP.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	THICK	GLASS	MATERIAL	FINISH	FRAME TYPE	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL JAMB	FRAME DETAIL SILL	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HDWR SET	REMARKS
100	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
100A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	1	---	---	---	---	---	---	20	04	EXISTING
100B	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
100C	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
101	B	3'-0"	7'-0"	1-3/4"	1/4"	SWCD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
101A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	1	---	---	---	---	---	---	---	04	EXISTING
101B	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
101C	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
102	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
102A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	1	---	---	---	---	---	---	---	17	EXISTING
102B	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
102C	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
103	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
103A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	1	---	---	---	---	---	---	---	04	EXISTING
103B	D	2'-4"	7'-0"	1-3/4"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
103C	D	2'-4"	7'-0"	1-3/4"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
104	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
104A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	1	---	---	---	---	---	---	---	17	EXISTING
105	D	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	15	EXISTING
106	D	3'-0"	7'-0"	1-3/4"	---	SCWD	PAINTED	---	---	---	---	---	---	---	20	15	EXISTING
107	D	3'-0"	7'-0"	1-3/4"	1/4	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
107A	B	3'-0"	7'-0"	1-3/4"	1/4	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
108	D	3'-0"	7'-0"	1-3/4"	---	SCWD	PAINTED	---	---	---	---	---	---	---	20	16	EXISTING
109	D	3'-0"	7'-0"	1-3/4"	---	SCWD	PAINTED	---	---	---	---	---	---	---	20	16	EXISTING
110	C	6'-0"	7'-0"	1-3/4"	---	HM	PAINTED	1	---	---	---	---	---	---	---	02	REPLACE DOORS, REUSE EXISTING FRAMES
110A	C	6'-0"	7'-0"	1-3/4"	---	HM	PAINTED	1	---	---	---	---	---	---	---	01	REPLACE DOORS, REUSE EXISTING FRAMES
112	D	3'-0"	7'-0"	1-3/4"	---	SWCD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
113	B	3'-0"	7'-0"	1-3/4"	---	SWCD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
114	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
114A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	---	---	---	---	---	---	---	---	04	EXISTING
114B	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
114C	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
115	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
115A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	---	---	---	---	---	---	---	---	04	EXISTING
115B	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
115C	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
116	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	14	EXISTING
116A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	---	---	---	---	---	---	---	---	04	EXISTING
116B	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
116C	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
117	B	3'-0"	7'-0"	1-3/4"	1/4"	SCWD	PAINTED	---	---	---	---	---	---	---	20	10	EXISTING
117A	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	---	---	---	---	---	---	---	---	04	EXISTING
117B	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
117C	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	11	EXISTING
118	D	3'-0"	7'-0"	1-3/4"	---	HM	PAINTED	---	---	---	---	---	---	---	---	05	EXISTING
119	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	08	EXISTING
120	D	2'-4"	7'-0"	1-3/8"	---	HCWD	PAINTED	---	---	---	---	---	---	---	---	07	EXISTING
121	D	2'-4"	7'-0"	1-3/8"	---	HM	PAINTED	1	---	---	---	---	---	---	---	07	NEW FIRE RISER DOOR
120A	D	3'-0"	7'-0"	1-3/4"	---	SCWD	PAINTED	---	---	---	---	---	---	---	---	06	EXISTING
202	D	3'-0"	7'-0"	1-3/4"	---	SCWD	PAINTED	---	---	---	---	---	---	---	20	16	EXISTING
203	D	3'-0"	7'-0"	1-3/4"	---	SCWD	PAINTED	---	---	---	---	---	---	---	---	07	EXISTING
204	D	3'-0"	7'-0"	1-3/4"	---	SCWD	PAINTED	---	---	---	---	---	---	---	---	08	EXISTING
G100	---	4'-0"	5'-0"	2"	---	STL	STL	---	---	---	---	---	---	---	---	13	SEE SHEET AS1.10 FOR DOOR LOCATION
G101	---	4'-0"	5'-0"	2"	---	STL	STL	---	---	---	---	---	---	---	---	12	SEE SHEET AS1.10 FOR DOOR LOCATION
G102	---	4'-0"	5'-0"	2"	---	STL	STL	---	---	---	---	---	---	---	---	13	SEE SHEET AS1.10 FOR DOOR LOCATION
G103	---	4'-0"	5'-0"	2"	---	STL	STL	---	---	---	---	---	---	---	---	12	SEE SHEET AS1.10 FOR DOOR LOCATION

A. EXISTING FRAMES AND DOORS TO BE RETROFITTED WITH NEW HARDWARE. FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO ORDERING HARDWARE. FILL EXISTING HARDWARE CUT OUTS NOT BEING USED BY THE NEW HARDWARE. SEE DETAIL 6 ON SHEET AG1.20 FOR DOOR HARDWARE MOUNTING HEIGHTS.

B. CUT AND WELD EXISTING STEEL FRAMES CURRENTLY PREPARED WITH 2-2" HEIGHT STRIKES. CUT AN APPROX. 8" SECTION FROM THE STRIKE JAMB AND WELD IN A REINFORCED SECTION TO ACCOMODATE SPECIFIED HARDWARE'S STRIKE.

C. STEEL DOORS: WELD, FILL, PATCH, BONDO, SAND, AND REPAINT EXISTING DOOR HARDWARE PREPARATIONS NOT BEING USED BY NEW HARDWARE, LEAVE SURFACES SMOOTH AND INVISIBLE BEFORE INSTALLING NEW HARDWARE.

D. WOOD DOORS: GLUE IN SOLID WOOD BLOCK FILLERS TO FILL CUT OUTS IN EXISTING WOOD DOORS, SAND SURFACES SMOOTH. ALTERNATIVELY, USE AN APPROVED EPOXY-BASED WOOD FILLER PRODUCT, SUBMIT PRODUCT DATA FOR APPROVAL.

E. VERIFY FIRE LABEL IS VISIBLE ON EXISTING FIRE RATED DOORS AND FRAMES. REPLACE DOORS AND FRAMES IF LABEL IS NOT VISIBLE.

F. NOTIFY ARCHITECT OF ANY CONFLICTS WITH NEW HARDWARE AND EXISTING CONDITIONS BEFORE ORDERING MATERIAL.

RECORD DRAWING
BASED ON CONTRACTOR SUPPLIED INFORMATION, WHICH HAS NOT BEEN VERIFIED BY THIS ARCHITECTURE
DATE: 06/22/2017

CITY OF LAS VEGAS NEVADA

REVISIONS
1 3/14/16PLAN COMMENTS
2 4/12/16PLAN COMMENTS

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ALTA DAYCARE UPGRADES
DOOR SCHEDULE

STAMP
THIS DRAWING WAS ORIGINALLY STAMPED BY JOHN A. SAWDON ARCHITECT NO. 4058 ON 04/12/2016

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DEPARTMENT OF PUBLIC WORKS
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
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DRAWN CJT
FILE
DATE 02/08/2016
SCALE
BID NO 15.60316.JH
CLV DWG NO 521-301
HANSEN NO 60316
SHT NO A11.10

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PLUMBING SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
	(-)	SHEET NOTE
	△	REVISION NUMBER
S OR W		SOIL, WASTE OR SEWER BELOW GRADE OR FLOOR
		SOIL, WASTE OR SEWER ABOVE GRADE OR FLOOR
CWV	CWV	COMBINATION WASTE AND VENT
GR	GR	GREASE WASTE BELOW GRADE OR FLOOR
	GR	GREASE WASTE ABOVE GRADE OR FLOOR
SD	SD	STORM DRAIN BELOW GRADE OR FLOOR
	SD	STORM DRAIN ABOVE GRADE OR FLOOR
OSD	OSD	OVERFLOW STORM DRAIN BELOW GRADE OR FLOOR
	OSD	OVERFLOW STORM DRAIN ABOVE GRADE OR FLOOR
V		VENT
CW		COLD WATER
HW		HOT WATER
HWR		HOT WATER RETURN
TW	T	TEMPERED WATER
TWR	T	TEMPERED WATER RETURN
SCW	S	SOFT COLD WATER
PD	PD	PUMPED DRAIN
D	D	DRAIN
PW	PW	PUMPED WASTE
ICW	ICW	INDUSTRIAL COLD WATER
NPW	NPW	NON-POTABLE WATER
G	G	LOW PRESSURE GAS
MG	MG	MEDIUM PRESSURE GAS
HPG	HPG	HIGH PRESSURE GAS
GV	GV	GAS PRESSURE REGULATOR VENT
F	F	FIRE LINE
CSP	CSP	COMBINATION STAND PIPE
		PIPING BELOW GRADE WITH HEAT TRACE
		PIPING ABOVE GRADE WITH HEAT TRACE
GC		GAS COCK
GPR		GAS PRESSURE REGULATOR
		GAS METER
		SOLENOID VALVE
HB		HOSE BIBB
RHB		RECESSED HOSE BIBBS
		REDUCED PRESSURE BACKFLOW PREVENTER
CO		CLEANOUT
WCO		WALL CLEANOUT
AD, OAD		AREA DRAIN, OVERFLOW AREA DRAIN
FD	/	FLOOR DRAIN/ABOVE
FS	/	FLOOR SINK/ABOVE
PD		PLANTER DRAIN
DD	/	DECK DRAIN/ABOVE
RD, ORD	/	ROOF DRAIN, OVERFLOW ROOF DRAIN/ABOVE
VTR		VENT THROUGH ROOF
FSR	F	FIRE SPRINKLER RISER
SOV		SHUT-OFF VALVE
		BALANCING VALVE ASSEMBLY - SOV, CV AND BV
BV		BALANCING VALVE
CV		CHECK VALVE
PRV		PRESSURE REDUCING VALVE
MX		MIXING VALVE
		RELIEF VALVE
		STRAINER WITH BLOW-DOWN VALVE
		FLEXIBLE PIPE CONNECTION
		UNION
		PIPE TRANSITION
PG		PRESSURE GAUGE
TH		THERMOMETER
WHA		WATER HAMMER ARRESTOR
		PIPE DOWN
		PIPE UP
		PIPE TEE UP
		PIPE TEE DOWN
		PIPE CAP
		ANCHOR

PLUMBING SYMBOL LEGEND (CONTINUED)

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
		GUIDE
		FLOW ARROW
POC		POINT OF CONNECTION TO EXISTING
POD		POINT OF DISCONNECTION FROM EXISTING
		ITEM TO BE REMOVED

EQUIPMENT TYPE
EQUIPMENT NUMBER
(-) E = EXISTING

PLAN/RISER TYPE
SHEET/RISER NUMBER

SHEET INDEX

ISSUE: 2017-06-22 RECORD DRAWINGS	SHEET NUMBER	SHEET DESCRIPTION
•	P0.00	COVER SHEET
•	P0.01	GENERAL NOTES AND SCHEDULES
•	PD2.00	WASTE AND VENT DEMO PLANS
•	PD3.00	DOMESTIC WATER DEMO PLANS
•	P2.00	WASTE AND VENT PLANS
•	P3.00	DOMESTIC WATER PLANS
•	P5.00	PLUMBING ISOMETRIC DIAGRAM
•	P6.00	DESIGN DETAILS
•	P6.01	DESIGN DETAILS

PLUMBING ABBREVIATION LIST

(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

AD	ACCESS DOOR / AREA DRAIN
AFF	ABOVE FINISH FLOOR
AP	ACCESS PANEL
AUTO	AUTOMATIC
BMS	BUILDING MANAGEMENT SYSTEM
BOH	BACK OF HOUSE
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
°C	DEGREES CELSIUS
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CP	CHROME PLATED
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL
DF	DRINKING FOUNTAIN
DIA (ø)	DIAMETER
DN	DOWN
E	EXISTING
EFF	EFFICIENCY
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
°F	DEGREES FAHRENHEIT
FH	FIRE HYDRANT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
FU	FIXTURE UNITS
FV	FLUSH VALVE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
HD	HEAD
HOA	HAND OFF AUTO
HP	HORSEPOWER
HR	HOUR
HS	HAND SINK
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IE	INVERT ELEVATION
IFC	INTERNATIONAL FIRE CODE
IFGC	INTERNATIONAL FUEL GAS CODE
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCH
IPC	INTERNATIONAL PLUMBING CODE
KW	KILOWATT
L	LENGTH, LAVATORY
LBS	POUNDS
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
NPT	NATIONAL PIPE THREAD
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
P	PUMP
PA	PRESSURE AVAILABLE
PD	PRESSURE DROP
PDI	PLUMBING DRAINAGE INSTITUTE
PH	PHASE
POS	PROVIDE BY OTHER SECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUND PER SQUARE INCH
PSIA	POUND PER SQUARE INCH ABSOLUTE
PSIG	POUND PER SQUARE INCH GAUGE
RPM	REVOLUTIONS PER MINUTE
S	SINK, SOIL
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SH	SHOWER / STATIC HEAD
SP	STATIC PRESSURE
SQ FT (⌀)	SQUARE FEET
SS	SERVICE SINK / STAINLESS STEEL
T	TEMPERATURE
TAB	TESTING AND BALANCING
TDH	TOTAL DEVELOPED HEAD
TEL	TOTAL EQUIVALENT LENGTH
TOS	TOP OF STEEL
TP	TRAP PRIMER
TS	TEMPERING STATION
TYP	TYPICAL
U	URINAL
UMC	UNIFORM MECHANICAL CODE
UNO	UNLESS NOTED OTHERWISE
UPC	UNIFORM PLUMBING CODE
V	VENT, VOLTS
W	WIDTH, WASTE, WATT
WC	WATER CLOSET
WFU	WATER FIXTURE UNITS
WG	WATER GAUGE
WH	WATER HEATER
WP	WATER PRESSURE
WPD	WATER PRESSURE DROP

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CITY OF LAS VEGAS NEVADA

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

COVER SHEET

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CLV DWG NO	521-301
HANSEN NO	60316
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PLUMBING GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING PIPING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY. EXISTING PIPING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.
3. ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING PLUMBING FIXTURES AS REQUIRED. PLUMBING IN EXISTING WALLS AND UNDER GROUND SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING PIPING TO FIXTURES AND EQUIPMENT NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND PLUMBING ROUGH-IN LOCATIONS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL HANDICAPPED FIXTURES. OBTAIN EXACT FLOOR DRAIN AND FLOOR SINK LOCATIONS FROM FOOD SERVICE DRAWINGS. ROUGH-IN LOCATIONS FOR KITCHENS, BARS, ETC TO BE TAKEN FROM APPROVED FOOD SERVICE SHOP DRAWINGS.
5. THE PLUMBING DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
6. REFER TO CIVIL DRAWINGS FOR INVERT AT SITE UTILITY POINTS OF CONNECTION. PROVIDE OFFSET AND INCREASER FOR SEWER AS REQUIRED FOR CONNECTION TO CIVIL.
7. PROVIDE TRAP PRIMERS FOR AREAS OF INFREQUENT USE, INCLUDING FLOOR DRAINS IN RESTROOMS AND MECHANICAL ROOMS, EQUAL TO PRECISION PRODUCTS CO. "PRIME-RITE," WITH DISTRIBUTION UNITS FOR MULTIPLE FLOOR DRAINS AND FLOOR SINKS. TRAP PRIMER SHALL BE ACCESSIBLE AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. PROVIDE LINE SIZE SHUT-OFF VALVE AHEAD OF EACH TRAP PRIMER AND PRIMER LINE SHALL BE INSTALLED ON A COLD WATER LINE LESS THAN 2" DIAMETER. ALL ELECTRONIC TYPE TRAP PRIMERS SHALL BE PPP "PRIME-TIME ELECTRONIC TRAP PRIMING MANIFOLD" WITH FOUR (4) TO 30 OUTLETS, VACUUM BREAKER, 24 HOUR CLOCK, MANUAL OVERRIDE, SOLENOID VALVE, CALIBRATED MANIFOLD WITH 1/2" OUTLET COMPRESSION FITTINGS. PROVIDE 3/4" SHUT-OFF VALVE ON INLET. (ELECTRONIC TRAP PRIMERS TO BE LOCATED IN MECHANICAL ROOMS AND WHERE NOTED. PROVIDE RECESSED MOUNT IN STUD WALLS AND SURFACE MOUNT ON CONCRETE AND BLOCK WALLS.)
8. HOT AND COLD WATER SHUT-OFF VALVES AND HOT WATER RETURN THROTTLING VALVES SHALL BE LOCATED TO BE EASILY ACCESSED.
9. PROVIDE WALL CLEANOUTS AT SINKS AND URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE ADOPTED STANDARD PLUMBING CODE.
10. REFER TO MIXING VALVE DETAIL FOR LAVATORY/SINK TEMPERED WATER DETAIL. PROVIDE THERMOSTATIC TYPE MIXING VALVE AS INDICATED.
11. EQUIPMENT AND PIPING LOCATIONS SHOWN FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATIONS PRIOR TO START OF WORK. IF SYSTEMS ARE NOT AS SHOWN IN DRAWINGS, REPORT DEVIATIONS TO ARCHITECT/ENGINEER WITHIN 48 HOURS OF DISCOVERY.
12. WHERE PIPING IS TO BE REMOVED TO A POINT, IT SHALL BE CAPPED OFF AND PROTECTED (WHERE APPLICABLE) FOR CONNECTION TO NEW WORK. INSULATION ON EXISTING PIPING SHALL BE REPAIRED OR REPLACED EQUAL TO NEW CONDITION.
13. PIPING CONNECTING TO REMOVED EQUIPMENT SHALL BE REMOVED TO A POINT SO AS NOT TO INTERFERE WITH NEW CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF DESIGNATED SYSTEMS. COORDINATE REPAIR REQUIREMENTS WITH ARCHITECT.

NOTICE

1. FINAL COLOR, FIXTURE, TRIM AND ACCESSORIES SHALL BE APPROVED BY ARCHITECT AND INTERIORS PRIOR TO FIXTURE RELEASE. ALL PLUMBING FIXTURES LISTED HERE ON SHALL CORRESPOND WITH INTERIORS PF FIXTURE SPECIFICATION NUMBER.
2. PLUMBING FIXTURES SHALL COMPLY WITH STATE AND COUNTY WATER CONSERVATION REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	ROUGH-IN SIZE					NOTES
		TW/HW	CW	V	TRAP	S/W	
WC-1, WC-2	WATER CLOSET	–	1/2	2	–	3	WALL MOUNTED, FLUSH TANK (ADA COMPLIANT)
L-1, L-2	LAVATORY	1/2	1/2	1-1/4 1-1/2	1-1/4 1-1/2	1-1/2	WALL HUNG, MANUAL FAUCET (ADA COMPLIANT)
DF-1, DF-2	DRINKING FOUNTAIN	–	1/2	1-1/2	1-1/2	1-1/2	WALL MOUNTED
S-1	SINK	1/2	1/2	1-1/2	1-1/2	2	CLASSROOM SINK WITH CABINET

1. NOT USED

ELECTRONIC TRAP PRIMER SCHEDULE

ITEM	LOCATION	MANUFACTURER MODEL NUMBER	TYPE	MOUNTING	MINIMUM MOUNTING HEIGHT (IN)	NUMBER OF DRAINS	INLET SIZE (IN)	MINIMUM HEADER CONNECTIONS	ELECTRICAL		NOTES
									V	FUSE (A)	
ETP-1	–	PPP, INC MPB-500	MANIFOLD	RECESSED	48	3	3/4	4	115/1	2	1, 2, 3, 4, 5

1. PROVIDE WITH ANTI-SIPHON VACUUM BREAKER, 24 HOUR CLOCK, MANUAL OVER RIDE, SOLENOID VALVE, CALIBRATED MANIFOLD WITH 1/2" OUTLET COMPRESSION FITTINGS.
2. PROVIDE SHUT-OFF VALVE ON INLET.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. PAINT ACCESS PANEL TO MATCH WALL. COORDINATE WITH ARCHITECT.
5. VERIFY MOUNTING HEIGHT WITH FIELD CONDITIONS AND MANUFACTURER'S RECOMMENDATIONS.

PLUMBING FIXTURE SPECIFICATIONS

PLUMBING FIXTURES

WATER CLOSET (WC-1): ZURN MODEL Z5560, FLOOR MOUNTED PRESSURE ASSIST TWO PIECE, ELONGATED BOWL, 1.6 GPF, WHITE VITREOUS CHINA. MANUAL FLUSH HANDLE, POLISHED CHROME TRIP LEVER. ELONGATED, OPEN FRONT, WHITE SEAT WITH COVER, ANTI-MICROBIAL AGENT, ANGLE SUPPLY WITH STOP-3/8" NPT, (ADA COMPLIANT).

WATER CLOSET (WC-2): AMERICAN STANDARD BABY DEVORO FLOWISE, MODEL 2282.001 FLOOR MOUNTED TOILET WITH MANUAL FLUSHOMETER VALVE ZURN Z6000 AV, 1.6 GPF WITH ROUND FRONT SEAT NUMBER 5001G.055 WITH EVERCLEAN.

LAVATORY (L-1): ZURN MODEL Z5340, 20" X 18" WALL-HUNG, LAVATORY WHITE VITREOUS CHINA WITH OVERFLOW, ADJUSTABLE P-TRAP, SINGLE CONTROL FAUCET Z81000-XL, POLISHED CHROME, BRASS VALVE BODIES, 1.5 GPM (ADA COMPLIANT).

LAVATORY (L-2): ZURN MODEL Z5340, 20" X 18" WALL-HUNG, LAVATORY WHITE VITREOUS CHINA WITH OVERFLOW, ADJUSTABLE P-TRAP, SINGLE CONTROL FAUCET Z81000-XL, POLISHED CHROME, BRASS VALVE BODIES, 1.5 GPM (CHILDREN HEIGHT) (ADA COMPLIANT).

SINK (S-1): ELKAY, CELEBRITY CLASSROOM SINK PACKAGE, MODEL CDKAD2517C INCLUDING 15-3/4" X 14 X 6-1/2" SINGLE BOWL, WITH FAUCET LKD208513LC AND DRAIN LK35. (1.5 GPM) (INSTALL AT 24" AFF LEVEL PER ARCHITECTURAL PLANS) (NO BUBBLER).

DRINKING FOUNTAIN (DF-1): HAWS MODEL 1109, DUAL HEIGHT, WALL MOUNTED, STAINLESS STEEL, SATIN FINISH, PUSH-BUTTON OPERATED, VANDAL-RESISTANT, BARRIER-FREE DRINKING FOUNTAIN WITH IN WALL MOUNTING FRAME. PROVIDE IN-LINE WATER FILTER BY FIXTURE UNIT MANUFACTURER (ADA COMPLIANT).

DRINKING FOUNTAIN (DF-2): HAWS MODEL 1109FR, FREEZE RESISTANT, WALL MOUNTED, CHILDREN HEIGHT, STAINLESS STEEL, SATIN FINISH, PUSH-BUTTON OPERATED, VANDAL-RESISTANT, BARRIER-FREE DRINKING FOUNTAIN WITH IN WALL MOUNTING FRAME. PROVIDE IN-LINE WATER FILTER BY FIXTURE UNIT MANUFACTURER (ADA COMPLIANT).

SUPPLIES, TRAPS AND MISCELLANEOUS

SUPPLIES: FOR CONCEALED APPLICATIONS, CONNECT WATER CLOSETS, LAVATORIES AND SINKS WITH McGUIRE BV 2165 CC BALL VALVE ANGLE STOP WITH SS-16 16" STAINLESS STEEL CONNECTOR FOR LAVATORIES, SINKS; McGUIRE BV 2165 CC BALL VALVE ANGLE STOP WITH SS-12 12" STAINLESS STEEL CONNECTOR FOR WATER CLOSET. WHERE EXPOSED, PROVIDE CHROME PLATED FLEXIBLE TUBE-RISERS (PROVIDE OFFSET TAILPIECE AND INSULATE WASTE AND SUPPLIES AT ALL HANDICAPPED LAVATORIES WITH McGUIRE PW 2150 PRE-WRAP INSULATION KIT). CONCINNITY MODEL NUMBER 19-L3 "IN WALL STOPS" SATIN CHROME WITH BRUSHED BRASS ACCENT AT WALL MOUNTED LAVATORY. WHERE EXPOSED, PIPING TRIM FINISH SHALL MATCH FIXTURE FINISH.

TRAPS: McGUIRE B8902, CHROME PLATED CAST BRASS WITH CLEANOUT PLUG AND TUBING OUTLET WITH TRAP ADAPTER AND ESCUTCHEON. (B-155WC FOR OFFSET TAILPIECE).

CLEANOUT (CO): ZURN MODEL ZS1468 (WALL), ZURN ZN1400-N (FLOOR INSIDE), ZURN Z1474-N

PLUMBING FIXTURE SPECIFICATIONS

(FLOOR EXTERIOR).
FLOOR DRAIN (FD): ZURN MODEL ZN415-NHY (5B FOR 5" ROUND 5S FOR 5" SQUARE), DURA COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE HOLES. STRAINER FINISH SHALL BE NICKEL BRONZE UNLESS LOCATION REQUIRES ALTERNATE FINISH. ZURN MODEL Z541-NH 12" DIAMETER TOP DRAIN DURA COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR ANTI-TILT, HEAVY DUTY SLOTTED GRATE WITH SUSPENDED SEDIMENT BUCKET (MECHANICAL ROOM, TRASH DOCK AND HEAVY TRAFFIC AREAS). ZURN MODEL Z508-NH-AR (INSIDE, OUTSIDE) 9" DIAMETER TOP DRAIN, DURA COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN COMBINATION MEMBRANE FLASHING CLAMP AND FRAME, FOR EXTRA-HEAVY-DUTY CAST IRON DEEP FLANGE GRATE. PROVIDE ACID RESISTANT ENAMEL (ARE) COATING AND STAINLESS STEEL GRATE FOR ALL FLOOR DRAINS LOCATED IN KITCHENS AND BARS.

FLOOR SINK (FS): ZURN MODEL FD2377-NH-H 12"X12"X10" DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS, SEEPAGE FLANGE, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.

ANGLE STOP ARRESTOR (ASA): PPP MINI-MAX "AA" MINI-ANGLE STOP ARRESTOR MODEL MM-50ASCP, 3/8" COMPRESSION, CHROME PLATED.

MATERIALS SCHEDULE

SERVICE	MATERIALS
DOMESTIC WATER	TYPE L COPPER ABOVE GRADE, TYPE K COPPER BELOW GRADE.
SOIL, WASTE AND VENT	CAST IRON SOIL PIPE WITH NO-HUB FITTINGS ABOVE GRADE, SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS BELOW GRADE.

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

GENERAL NOTES AND SCHEDULES

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SCALE	AS NOTED
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CLV DWG NO	521-301
HANSEN NO	60316
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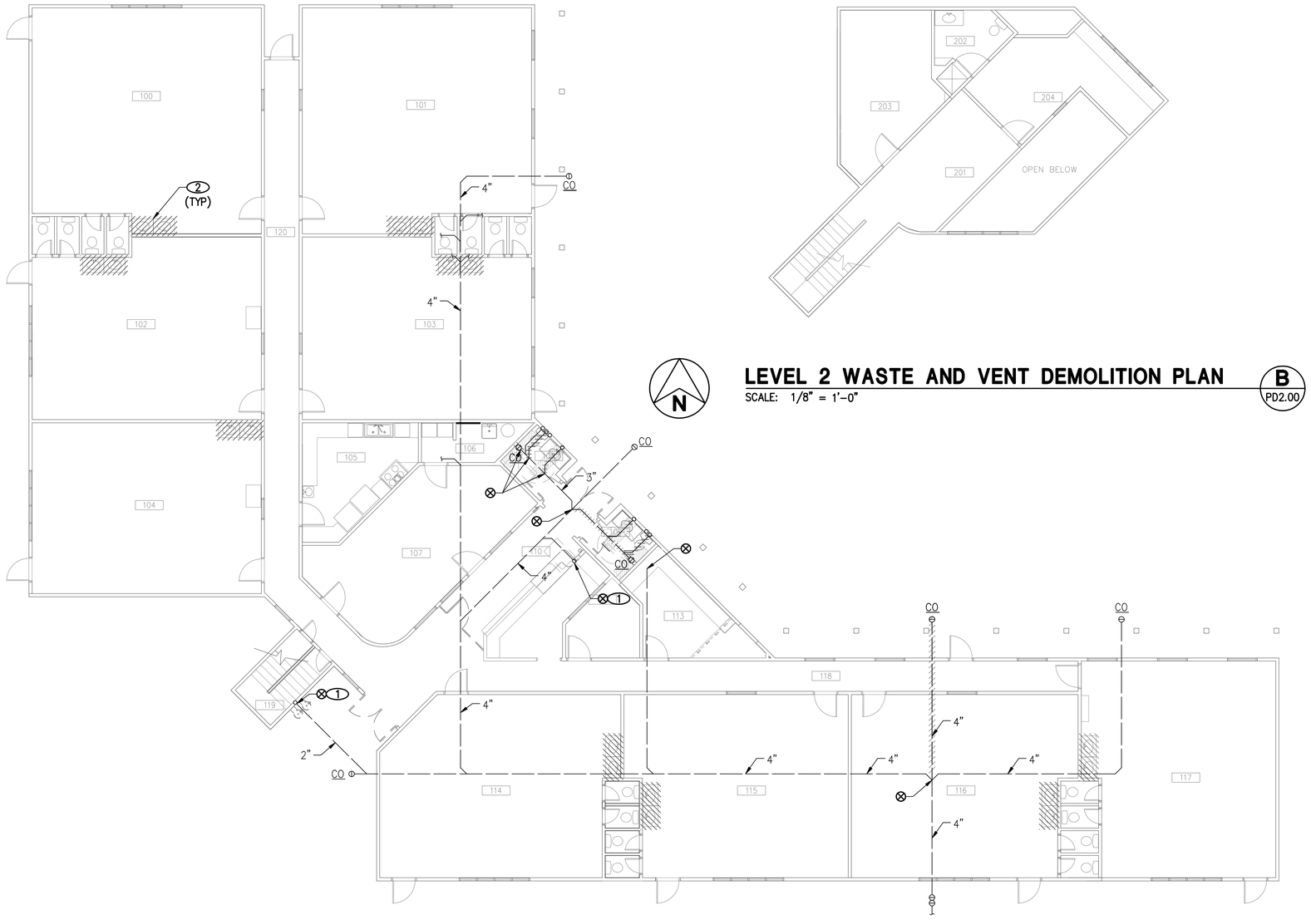

LEVEL 2 WASTE AND VENT DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

B / PD2.00

LEVEL 1 WASTE AND VENT DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

A / PD2.00

NOTICE

1. REMOVE EXISTING CLASSROOM SINKS AND ASSOCIATED CABINETS.

NOTES

(1) REMOVE EXISTING PLUMBING FIXTURE. CAP WASTE AND VENT AND PREPARE TO RECONNECT NEW WC, L, DF.

(2) REMOVE SINK AND ASSOCIATED CABINET. CAP WASTE AND VENT, AND PREPARE TO RECONNECT NEW SINK.

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ALTA DAYCARE UPGRADES

WASTE AND VENT DEMO PLANS

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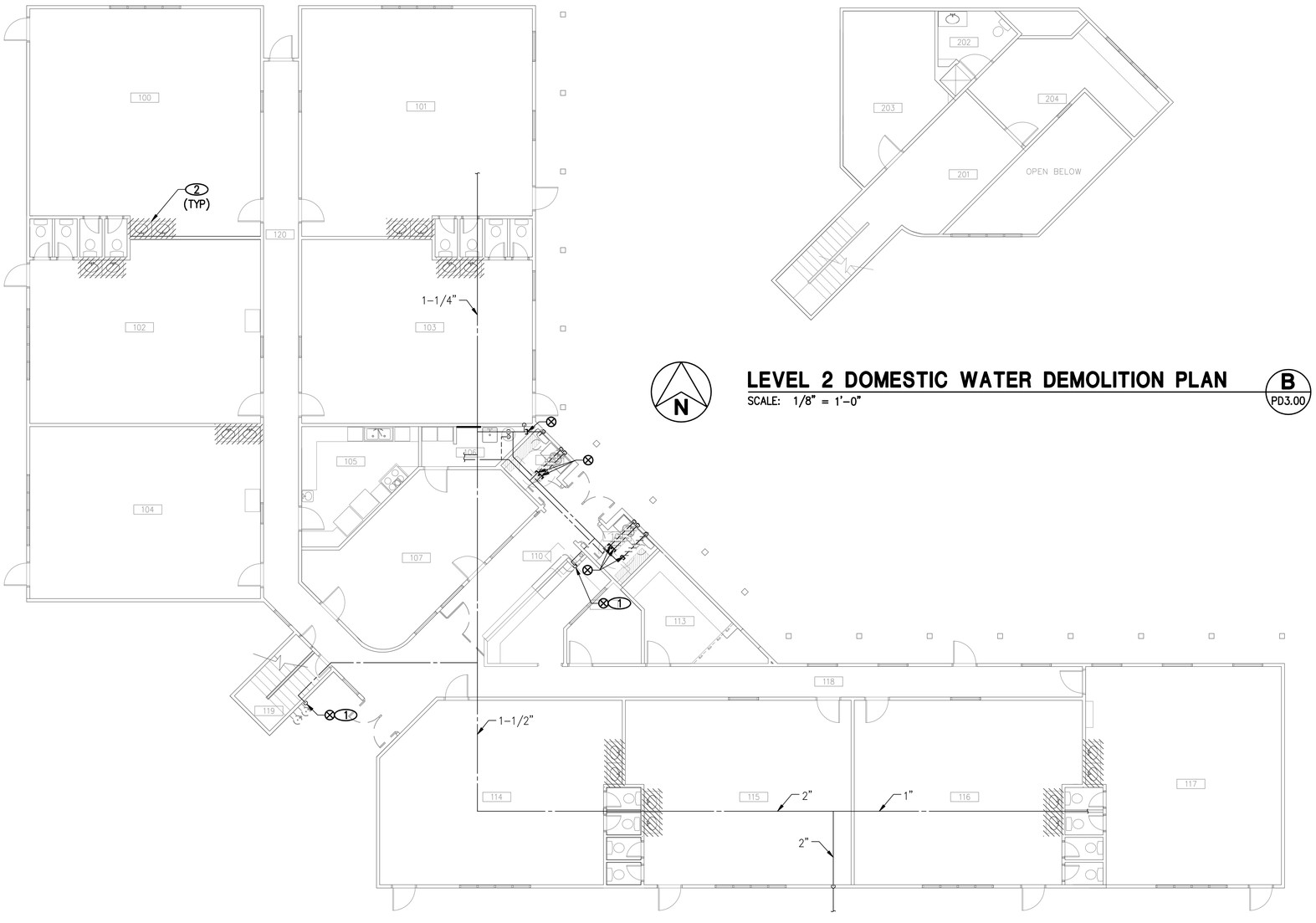

N

LEVEL 2 DOMESTIC WATER DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

B PD3.00

N

LEVEL 1 DOMESTIC WATER DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

A PD3.00

NOTICE

1. REMOVE EXISTING CLASSROOM SINKS AND ASSOCIATED CABINETS.

NOTES

(1) REMOVE EXISTING PLUMBING FIXTURE. CAP EXISTING CW, AND PREPARE TO RECONNECT NEW DF.

(2) REMOVE SINK AND ASSOCIATED CABINET. CAP EXISTING DOMESTIC WATER LINES AND PREPARE TO RECONNECT NEW SINK.

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DOMESTIC WATER DEMO PLANS

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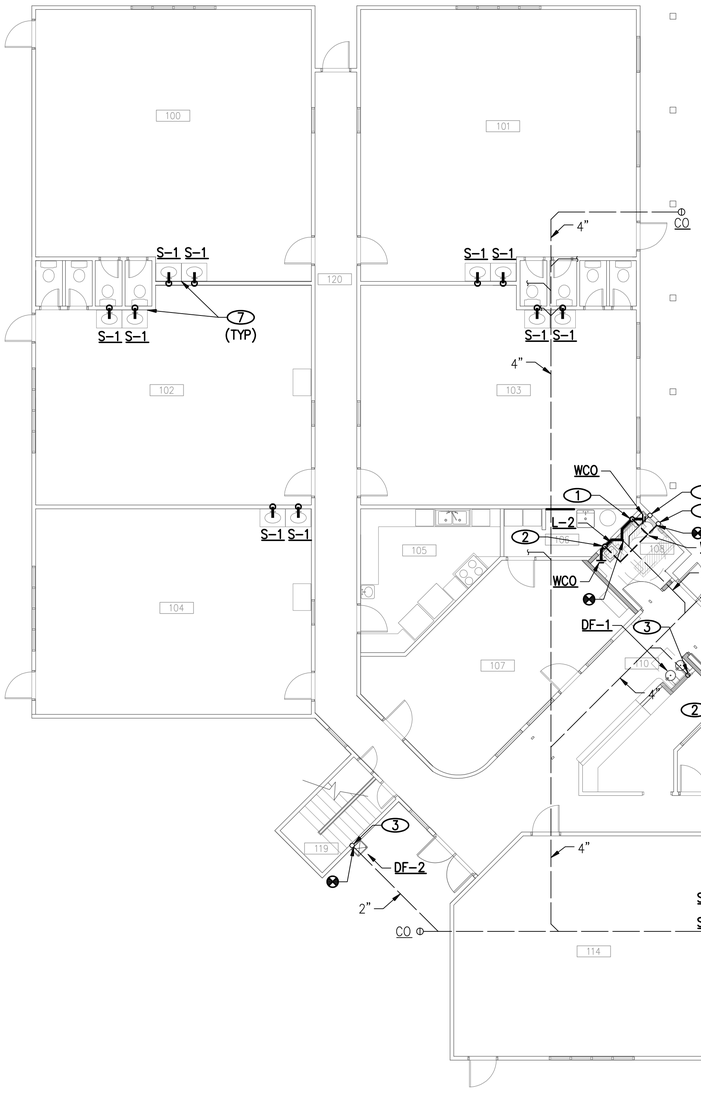
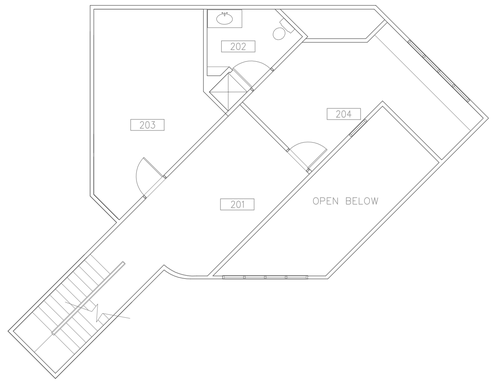


LEVEL 2 WASTE AND VENT PLAN

SCALE: 1/8" = 1'-0"

B
P2.00



LEVEL 1 WASTE AND VENT PLAN

SCALE: 1/8" = 1'-0"

A
P2.00

NOTICE

1. INSTALL NEW CLASSROOM SINK CABINETS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

NOTES

1. 3" W DOWN, 2" V UP AND CONNECT TO WC-1.
2. 2" W DOWN, 2" V UP AND CONNECT TO L-1.
3. 2" W DOWN, 2" V UP AND CONNECT TO DF-1.
4. 4" W DOWN, 2" V UP AND CONNECT TO STANDPIPE. REFER TO 4/P6.00 FOR DETAIL.
5. EXISTING 3" WASTE FROM LEVEL 2 TO REMAIN.
6. 2" V UP IN WALL AND CONNECT TO EXISTING VENT LINE ABOVE.
7. 2" W DOWN, 2" V UP AND CONNECT NEW SINK TO EXISTING WASTE AND VENT LINES.

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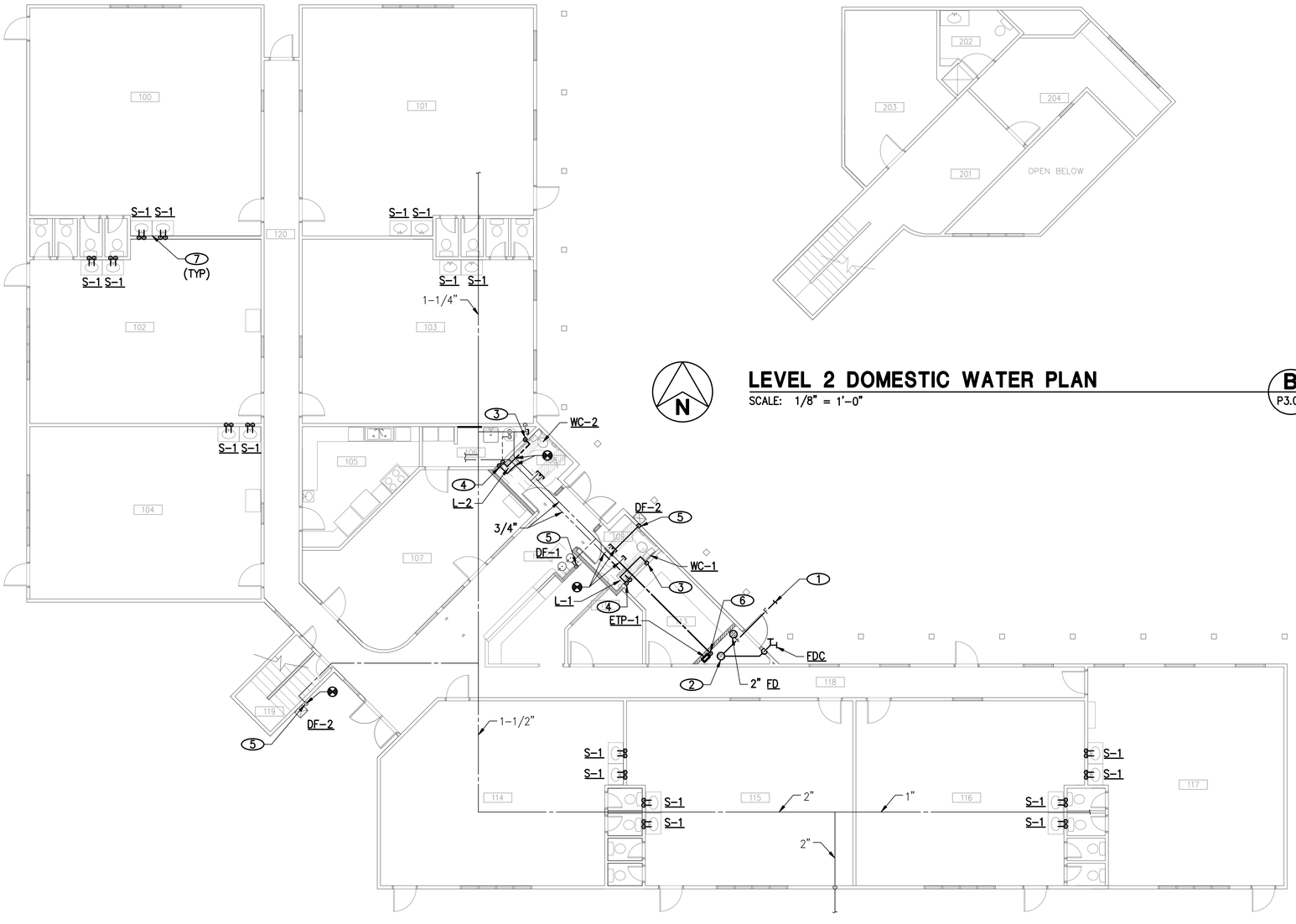

LEVEL 2 DOMESTIC WATER PLAN

SCALE: 1/8" = 1'-0"

B
P3.00

LEVEL 1 DOMESTIC WATER PLAN

SCALE: 1/8" = 1'-0"

A
P3.00

NOTICE

1. INSTALL NEW CLASSROOM SINK CABINETS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

NOTES

1. SEE CIVIL PLANS FOR CONTINUATION.
2. FIRE SPRINKLER RISER. REFER TO 1/P6.01 FOR DETAIL.
3. 1/2" CW DOWN IN WALL AND CONNECT TO WC-1.
4. 1/2" CW, 1/2" HW DOWN IN WALL AND CONNECT TO L-1, PROVIDE MIXING VALVE SYMMONS, 5-210-CK.
5. 1/2" CW DOWN IN WALL AND CONNECT TO DF-1.
6. 1/2" CW DOWN IN WALL AND CONNECT TO ETP-1, ROUTE 1/2" CW TO FLOOR DRAIN.
7. CONNECT 1/2" CW, 1/2" TW TO NEW CLASSROOM SINK WITHIN NEW CABINET. REUSE EXISTING DOMESTIC WATER LINES.

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES
DOMESTIC WATER PLANS

REVISIONS

CONSULTANT

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jba consulting engineers

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ALEXANDER JANKOVIC, PE
LICENSE # NV 013957
ON 02/08/2016

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DRAWN	JU
FILE	
DATE	06/22/2017
SCALE	AS NOTED
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	P3.00

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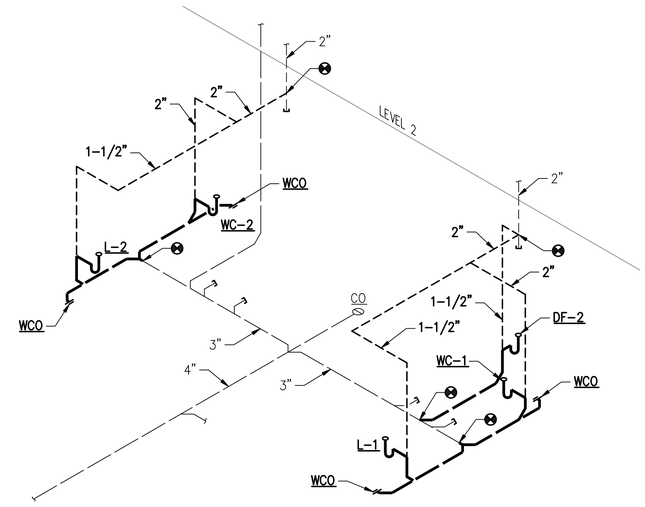

WASTE AND VENT ISOMETRIC DIAGRAM

NO SCALE

1
P5.00

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

PLUMBING ISOMETRIC DIAGRAM

REVISIONS

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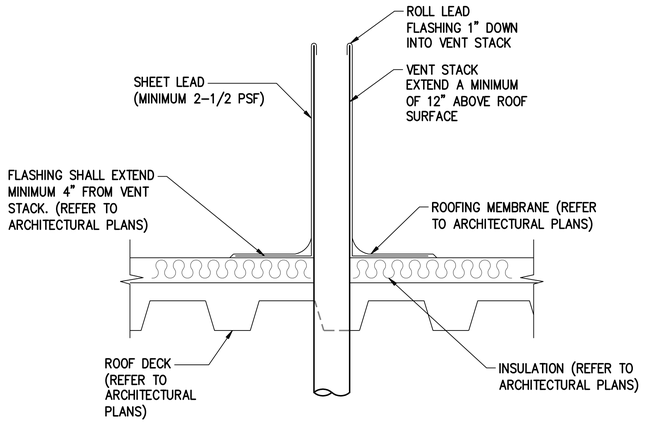
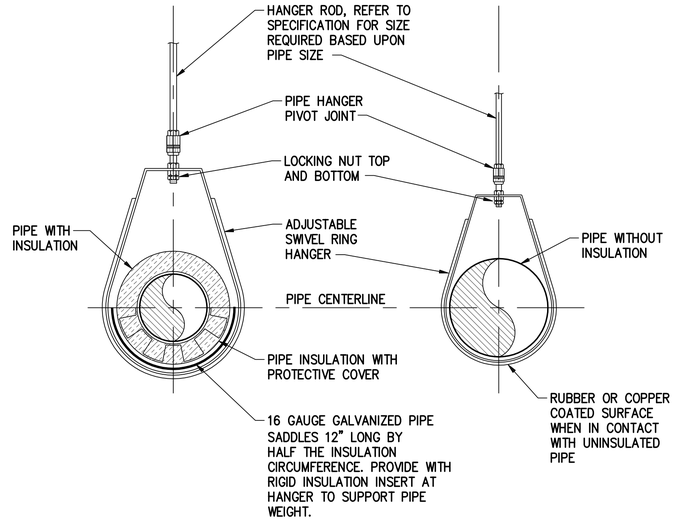


VENT THROUGH ROOF

NO SCALE

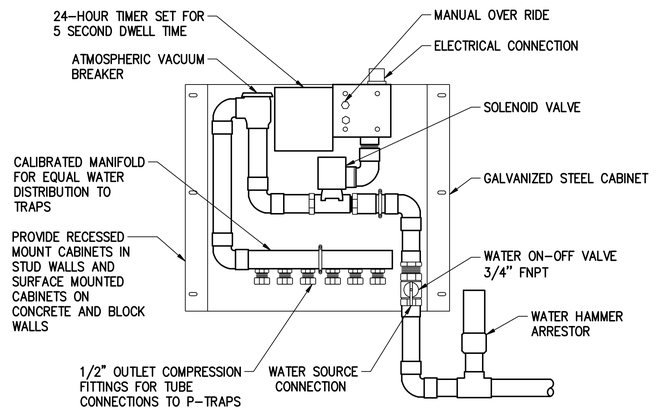
1 P6.00



PIPE HANGER (4" AND BELOW)

NO SCALE

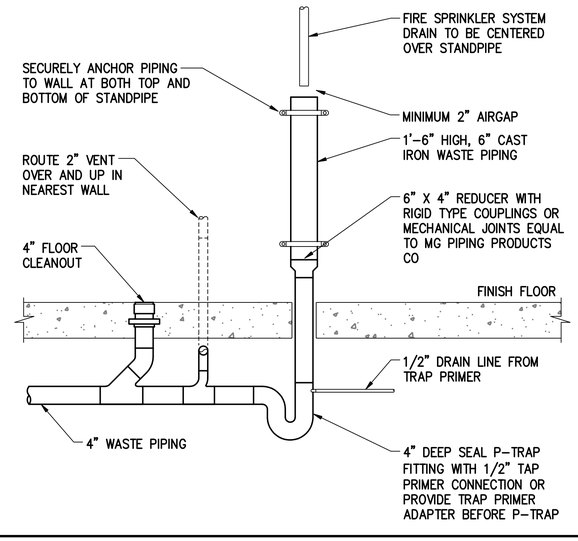
2 P6.00



ELECTRIC TRAP PRIMER

NO SCALE

3 P6.00



FIRE SPRINKLER STANDPIPE

NO SCALE

4 P6.00

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CITY OF LAS VEGAS NEVADA

DEPARTMENT OF PUBLIC WORKS

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

DESIGN DETAILS

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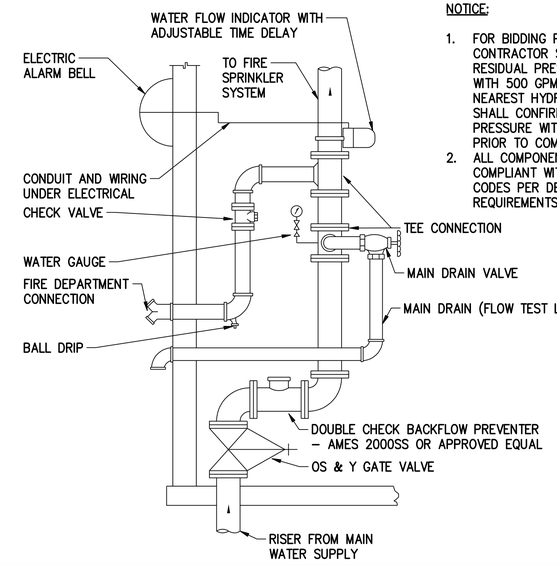
FIRE SPRINKLER NOTES

1. SPRINKLER CONTRACTOR SHALL PROVIDE SYSTEM DESIGN, LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE COMPLETE DESIGN AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM SERVING THE SPACE.
2. THE DESIGN AND INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION NFPA 13, CLARK COUNTY FIRE CODE FIRE CODE AND THE GENERAL REQUIREMENTS OF APPLICABLE SECTIONS OF THE 2012 IBC, THE SPECIFIC REQUIREMENTS OF THE LOCAL FIRE PREVENTION BUREAU AND THE OWNER'S INSURANCE UNDERWRITER.
3. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, SPRINKLERS, ESCUTCHEONS, PIPING, VALVES, FITTINGS, DRAINS, HANGERS, BRACING, SIGNS, TEST CONNECTIONS AND OTHER IDENTIFICATION MARKINGS AS REQUIRED.
4. ALL PIPING, EQUIPMENT AND MATERIALS USED IN THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE LISTED AS APPROVED BY UNDERWRITERS, LABORATORIES INC., "LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS", OR APPROVED BY OTHER APPROPRIATE, NATIONALLY RECOGNIZED TESTING LABORATORIES FOR USE IN SPRINKLER SYSTEMS, AND SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.
5. ALL EQUIPMENT OF THE SAME TYPE SHALL BE PROVIDED BY THE SAME MANUFACTURER. PRODUCTS FROM MULTIPLE MANUFACTURERS FOR THE SAME TYPE SHALL NOT BE ALLOWED.
6. PROVIDE SEISMIC BRACING AS REQUIRED BY 2012 INTERNATIONAL BUILDING AND FIRE CODES AND NFPA 13.
7. PIPING, PIPE HANGERS, SWAY BRACING AND SUPPORTS SHALL CONFORM TO THE LATEST EDITION OF NFPA 13.
8. ALL SPRINKLERS WITHIN THE SPACE SHALL BE PROVIDED WITH EQUIVALENT CHARACTERISTICS, INCLUDING TEMPERATURE RATING, RESPONSE TIME INDEX AND RESPONSE TYPE.
9. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK, DIFFUSERS, GRILLES, ELECTRICAL AND PLUMBING PIPING AS NECESSARY TO INTERFACE COMPONENTS OF FIRE SPRINKLER PIPING PROPERLY WITH OTHER WORK.
10. AFTER SYSTEM IS INSTALLED IT SHALL BE FILLED AND TESTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE REQUIREMENTS OF THE APPLICABLE NFPA STANDARDS.
11. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE PROVIDED TO THE ARCHITECT PRIOR TO SUBMISSION TO THE LOCAL AUTHORITIES. ONCE APPROVED BY THE ARCHITECT OR THEIR ENGINEER, SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13.
12. THE CONTRACTOR GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATION OF COMPLETION AND ACCEPTANCE OF THE WORK.
13. THE CONTRACTOR SHALL PROVIDE A STOCK OF SPARE SPRINKLERS, INCLUDING CABINET, AS REQUIRED BY NFPA 13.
14. ALL SPRINKLERS SHALL BE CONCEALED. FINISH AND COLOR SHALL BE SELECTED BY THE ARCHITECT.
15. ALL SPRINKLERS SHALL BE CENTERED WITHIN THE CEILING TILE, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
16. ALL PIPING IN FINISHED OR PUBLIC SPACES SHALL BE CONCEALED ABOVE FINISHED CEILINGS. PIPING IN UNFINISHED SPACES MAY BE EXPOSED.
17. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING AND PAINTING AS REQUIRED FOR INSTALLATION OF SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED BY THE BUILDING CODE. ALL FIRESTOPPING SHALL USE LISTED ASSEMBLIES BASED ON THE RATED PENETRATION.
18. CONTRACTOR SHALL TEST ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13. PROVIDE ARCHITECT WITH COPIES OF ALL TEST CERTIFICATES, OPERATION AND MAINTENANCE MANUALS, RECORD DRAWINGS AND OTHER REQUIRED CERTIFICATES AS REQUIRED BY NFPA 13.
19. CONTRACTOR SHALL BE LICENSED AND FULLY QUALIFIED TO PERFORM THE WORK AS REQUIRED BY THE LOCAL JURISDICTION.



NOTICE:

1. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL ASSUME 50 PSI RESIDUAL PRESSURE IS AVAILABLE WITH 500 GPM FLOWING AT THE NEAREST HYDRANT. CONTRACTOR SHALL CONFIRM AVAILABLE FLOW AND PRESSURE WITH ON-SITE FLOW TEST PRIOR TO COMMENCING WORK.
2. ALL COMPONENTS SHALL BE COMPLIANT WITH NFPA AND LOCAL CODES PER DESIGN BUILD SYSTEM REQUIREMENTS.

FIRE SPRINKLER RISER PIPING

NO SCALE

1 / P6.01

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ALTA DAYCARE UPGRADES
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MECHANICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
	(-)	SHEET NOTE
	△	REVISION NUMBER
	--ø	ROUND DUCTWORK (INCHES)
	--/--	RECTANGULAR DUCTWORK (INCHES)
SA	⊠ ⊘/⊠ ⊘	SUPPLY AIR DUCT UP/DOWN
RA	⊠ ⊘/⊠ ⊘	RETURN AIR DUCT UP/DOWN
EA	⊠ ⊘/⊠ ⊘	EXHAUST AIR DUCT UP/DOWN
OA	⊠ ⊘/⊠ ⊘	OUTSIDE AIR DUCT UP/DOWN
	⊡	SUPPLY DIFFUSER, GRILLE OR REGISTER
	⊡	RETURN GRILLE
	⊡	EXHAUST GRILLE
	▬	LINEAR SLOT DIFFUSER, GRILLE OR REGISTER
	▯	SIDEWALL SLOT DIFFUSER, GRILLE OR REGISTER
	→	AIR FLOW DIRECTION ARROW
AD	⊡	ACCESS DOOR
		SINGLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		DOUBLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		SINGLE/DOUBLE LINE RADIUS DUCT ELBOW
		SINGLE/DOUBLE LINE MITERED DUCT ELBOW
		DOUBLE LINE DUCT TRANSITION

MECHANICAL SYMBOL LEGEND (CONTINUED)

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
FD	---FD	FUSIBLE LINK FIRE DAMPER
SD	---SD	SMOKE DAMPER
DD	---DD	DUCT MOUNTED SMOKE DETECTOR
FSD	---FSD	COMBINATION FIRE AND SMOKE DAMPER
MD	---M	MOTORIZED DAMPER
MVD	---┐	MANUAL VOLUME DAMPER
	---o	MVD WITH REMOTE CEILING OPERATOR
BDD	---BDD	BACKDRAFT DAMPER
	Ⓣ	THERMOSTAT
	Ⓗ	HUMIDISTAT
	Ⓢ	SPACE TEMPERATURE SENSOR WITH PLUG-IN PORT
POC	⊕	POINT OF CONNECTION TO EXISTING
POD	⊗	POINT OF DISCONNECTION FROM EXISTING
	▨	ITEM TO BE REMOVED

- EQUIPMENT TYPE
- EQUIPMENT NUMBER
- CFM/GPM, E = EXISTING

- SUPPLY DIFFUSER TAG, E = EXISTING
- CFM/DIRECTION

- RETURN/EXHAUST GRILLE TAG, E = EXISTING
- CFM/DIRECTION

- PLAN/RISER TYPE
- SHEET/RISER NUMBER

- AHU EQUIPMENT NUMBER
- TERMINAL BOX TAG
- CFM/GPM

SHEET INDEX

ISSUE: 2017-06-22 RECORD DRAWINGS

SHEET NUMBER	SHEET DESCRIPTION
M0.00	COVER SHEET
M0.01	GENERAL NOTES AND SCHEDULES
M2.00	MECHANICAL PLANS
M6.00	DESIGN DETAILS

MECHANICAL ABBREVIATION LIST

(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

AABC	AMERICAN AIR BALANCE COUNCIL
ACD	AUTOMATIC CONTROL DAMPER
ACU (AC)	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AF	AIR FOIL
AFF	ABOVE FINISH FLOOR
AFMS	AIR FLOW MEASURING STATION
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHU (AH)	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUTO	AUTOMATIC
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSE POWER
BI	BACKWARD INCLINED
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
°C	DEGREES CELSIUS
CC	COOLING COIL
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COP	COEFFICIENT OF PERFORMANCE
CV	CONSTANT VOLUME
DB	DRY BULB TEMPERATURE
dB	DECIBEL
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL
DIA (ø)	DIAMETER
DIFF	DIFFUSER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DX	DIRECT EXPANSION
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
GA	GAUGE
GAL	GALLONS
GBS	GALVANIZED BIRD SCREEN
GEF	GENERAL EXHAUST FAN
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRILLE
H	HEIGHT
HC	HEATING COIL
HD	HEAD
HOA	HAND OFF AUTO
HP	HORSE POWER
HR	HOUR
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IH	INTAKE HOOD
IN	INCH
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN (SPRING RETURN)
NPS	NOMINAL PIPE SIZE
OED	OPEN END DUCT
OPA	OSHPD PRE-APPROVAL OF ANCHORAGE
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
OSP	OSHPD SPECIAL SEISMIC CERTIFICATION PRE-APPROVAL
P	PUMP
PCF	POUND PER CUBIC FOOT
PD	PRESSURE DROP
PH	PHASE
POS	PROVIDED BY OTHER SECTION
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
PSI	POUND PER SQUARE INCH
PSIA	POUND PER SQUARE INCH ABSOLUTE
PSIG	POUND PER SQUARE INCH GAUGE
REFR	REFRIGERANT
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SH	STATIC HEAD
SP	STATIC PRESSURE
SQ FT (Φ)	SQUARE FEET
SS	STAINLESS STEEL
TAB	TESTING AND BALANCING
TCP	TEMPERATURE CONTROL PANEL
TD	TEMPERATURE DIFFERENCE
TDH	TOTAL DEVELOPED HEAD
TEL	TOTAL EQUIVALENT LENGTH
TEMP (T)	TEMPERATURE
TF	TRANSFER FAN
TSP	TOTAL STATIC PRESSURE
TU	TERMINAL UNIT
TYP	TYPICAL
UH	UNIT HEATER
UMC	UNIFORM MECHANICAL CODE
UNO	UNLESS NOTED OTHERWISE
UPC	UNIFORM PLUMBING CODE
V	VOLT
VD	VOLUME DAMPER (MANUAL)
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	WATT, WIDTH
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WT	WEIGHT

COMcheck Software Version 4.0.2.5

Mechanical Compliance Certificate

Project Information

Energy Code:	2012 IECC
Project Title:	Alta Daycare Upgrades
Location:	Las Vegas, Nevada
Climate Zone:	3b
Project Type:	Alteration

Construction Site:
Alta Drive
Las Vegas, NV 89106

Owner/Agent:
City of Las Vegas

Designer/Contractor:
JBA Consulting Engineers
5155 W. Patrick Ln
Las Vegas, NV 89118

Mechanical Systems List

Quantity **System Type & Description**

1 CU-1/ IU-1 Fire riser room (Single Zone):
Packaged Terminal Heat Pump
Heating Mode: Capacity = 11 kBtu/h,
Proposed Efficiency = 4.44 COP, Required Efficiency = 2.97 COP
Cooling Mode: Capacity = 9 kBtu/h,
Proposed Efficiency = 20.00 EER, Required Efficiency = 11.30 EER
Fan System: None

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.2.5 and to comply with the mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: Alta Daycare Upgrades — Report date: 03/10/16
Data filename: J:\15.0881\Docs\Design\M\2012 IECC\Alta Daycare Energy Compliance.cck — Page 1 of 8

RECORD DRAWINGS

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DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

COVER SHEET

STAMP

ORIGINALLY SIGNED BY
ALEXANDER JANKOVIC, PE
LICENSE # NV 013957
ON 02/08/2016

OWNER: CITY OF LAS VEGAS
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DATE	06/22/2017
SCALE	AS NOTED
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	M0.00

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MECHANICAL GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING DUCTWORK, PIPING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW DUCTWORK, PIPING AND EQUIPMENT IS SHOWN HEAVY. EXISTING DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.
3. ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING MECHANICAL SYSTEMS AS REQUIRED. MECHANICAL SYSTEMS IN EXISTING WALLS AND UNDER GROUND SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING PIPING AND DUCTWORK NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
4. THE OWNER RESERVES FIRST CHOICE TO KEEP EXISTING EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER AND DELIVER DESIGNATED EQUIPMENT AND MATERIALS REMOVED UNDER THIS CONTRACT TO OWNERS DESIGNATED STORAGE AREA. REMAINING EQUIPMENT AND MATERIAL REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR.
5. UNLESS NOTED OTHERWISE, FLEXIBLE DUCTS TO TERMINAL UNITS, DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME SIZE AS NECK.
6. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'–0" MAXIMUM HORIZONTAL RUN WITH ONLY ONE 90° BEND. SECURE FLEXIBLE DUCTWORK WITH SCREWS AND DRAWBANDS.
7. DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS.
8. PROVIDE GEAR OPERATED CEILING OPERATORS FOR INACCESSIBLE MANUAL VOLUME DAMPERS. OPERATOR SHALL BE EQUAL TO YOUNG REGULATOR WITH CEILING ESCUTCHEON AND COVER PLATE. COORDINATE EXACT LOCATION OF COVER PLATE WITH ARCHITECT.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, REGISTERS, DIFFUSERS AND ACCESS PANELS IN CEILING AND FOR DIMENSIONED LENGTHS OF LINEAR DIFFUSERS. COORDINATE DIFFUSER BORDER TYPES WITH CEILING TYPE SCHEDULED IN ARCHITECTURAL REFLECTED CEILING PLANS.
10. FIELD VERIFY FIT OF DUCTWORK AND PIPING PRIOR TO FABRICATION.
11. MANUAL VOLUME DAMPERS AND VALVES ON INSULATED DUCTWORK AND PIPING SHALL HAVE EXTENDED STEMS TO ALLOW FOR THE INSULATION THICKNESS. PROVIDE MINIMUM 12" LONG RED RIBBON LOCATOR ON VOLUME DAMPER AND VALVE HANDLES.
12. EQUIPMENT START–UP SHALL BE BY MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
13. INSTALL THERMOSTATS AT MOUNTING HEIGHT 4'–0" AFF IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE EXACT LOCATION IN FIELD WITH CONTRACTOR AND ARCHITECT.
14. WHERE PIPING AND/OR DUCTWORK IS TO BE REMOVED TO A POINT, IT SHALL BE CAPPED OFF AND PROTECTED (WHERE APPLICABLE) FOR CONNECTION TO NEW WORK. INSULATION ON EXISTING PIPING AND DUCTWORK SHALL BE REPAIRED OR REPLACED EQUAL TO NEW CONDITION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF DESIGNATED SYSTEMS. COORDINATE REPAIR REQUIREMENTS WITH ARCHITECT.
16. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL SA, RA, EA DIFFUSERS AND REGISTERS THROUGHOUT THE FACILITY.
17. PROVIDE TESTING AND BALANCING FOR THE EXHAUST HOOD.

EXHAUST FAN SCHEDULE

ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	TYPE	AIRFLOW (CFM)	SP (IN WG)	FAN RPM	ELECTIRCAL					MAX OPERATING WEIGHT (LBS)	NOTES
								BHP	WATTS	RPM	FLA (A)	V/PH		
CEF–1	CEILING	RESTROOM	GREENHECK SPA–110–VG	CEILING	100	0.125	–	–	49	950	0.58	115/1	17	1, 2
CEF–2	CEILING	RESTROOM	GREENHECK SPA–110–VG	CEILING	100	0.125	–	–	49	950	0.58	115/1	17	1, 2

1. ACTUAL OPERATION AT 2200 FEET ABOVE SEA LEVEL.
2. PROVIDE WITH WALL CAP, WC–6.

KITCHEN EXHAUST FAN SCHEDULE

ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	TYPE	AIRFLOW (CFM)	SP (IN WG)	FAN RPM	ELECTRICAL					MAX OPERATING WEIGHT (LBS)	NOTES
								BHP	HP	RPM	FLA (A)	V/PH		
KEF–1	ROOF	KITCHEN HOODS	GREENHECK QEI–9–II–3	MIXED FLOW	525	0.5	–	–	1/3	1,725		115/1	70	1, 2, 3, 4

1. ACTUAL OPERATION AT 2200 ABOVE SEA LEVEL.
3. PROVIDE WITH BACKDRIFT DAMPER, AND SPRING ISOLATION KIT.
3. PROVIDE ALUMINUM HOUSING.
4. PROVIDE WITH DISCONNECT SWITCH, NEMA 1.

KITCHEN HOOD SCHEDULE

ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	OVERALL HOOD DIMENSIONS (LxWxH) (IN)	COLLAR SIZE (IN W.C.)	MATERIAL	AIRFLOW (CFM)	ESP (IN W.C.)	EXHAUST COLLAR VELOCITY (FPM)	MAX OPERATING WEIGHT (LBS)	NOTES
H–1	KITCHEN AREA	RANGE	GREENHECK GD2 CONDENSTAE HOOD	36X42X24	(1) 13X11	430SS	525	0.034	540	150	1, 2, 3, 4

1.TYPE II KITCHEN HOOD, MADE OF 18 GAGE 430 STAINLESS STEEL.
2. MOUNTING HEIGHT PER ARCHITECTURAL PLANS.
3. PROVIDE WITH FLUORESCENT LIGHT AND FACTORY MOUNTED EXHAUST COLLARS AND MOUNTING BRACKETS.
4. RANGE CANNOT BE USED TO COOK ANY RAW FOOD. REHEAT ONLY.

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

ITEM		UNIT TYPE	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER (CONDENSING UNIT)	MANUFACTURER MODEL NUMBER (FC UNIT)	COOLING CAPACITY					HEATING CAPACITY (MBH)	FAN COIL UNIT				CONDENSING UNIT								REFRIGERANT CHARGE (LBS)	NOTES
							EAT		TOTAL (MBH)	SENSIBLE (MBH)	AMBIENT TEMP (°F)		AIRFLOW (CFM)	VOLT/PH	RATED (A)	MAX OPERATING WEIGHT (LBS)	CAPACITY (MBH) @ 115°F	ELECTRICAL			EER	SEER	REF. PIPE SIZES (RL/RS)	MAX OPERATING WEIGHT (LBS)		
CONDESNSER	FANCOIL						DB (°F)	WB (°F)										V/PH	UNIT MCA (A)	MOCP (A)						
CU–1	IU–1	SPLIT SYSTEM		FIRE RISER ROOM	MITSUBISHI MUZ–GL09NA–U8	MITSUBISHI MSZ–GL09NA–U1	80	65	9	9	115	10.9	580	230/1	1	22	9	230/1	9	15	–	24.6	1/4–3/8	81		1, 2, 3, 4, 5

1. PROVIDE INVERTER DRIVEN COMPRESSOR.
2. ACTUAL OPERATION AT 2200 FEET ABOVE SEA LEVEL.
3. DUCTLESS SINGLE ZONE WALL–MOUNTED SPLIT SYSTEM. PROVIDE UNITS ACCESSORIES AS REQUIRED BY MANUFACTURER FOR COMPLETE SYSTEM OPERATION, EVAPORATOR CONDENSATE DRAIN PAN, TEMPERATURE CONTROLLER WITH COOL/AUTO/OFF.
4. PROVIDE A SINGLE POINT POWER CONNECTION FOR INDOOR AND OUTDOOR UNITS.
5. ACCEPTABLE MANUFACTURERS: DAIKIN, LG.

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DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS
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ALTA DAYCARE UPGRADES
GENERAL NOTES AND SCHEDULES

STAMP

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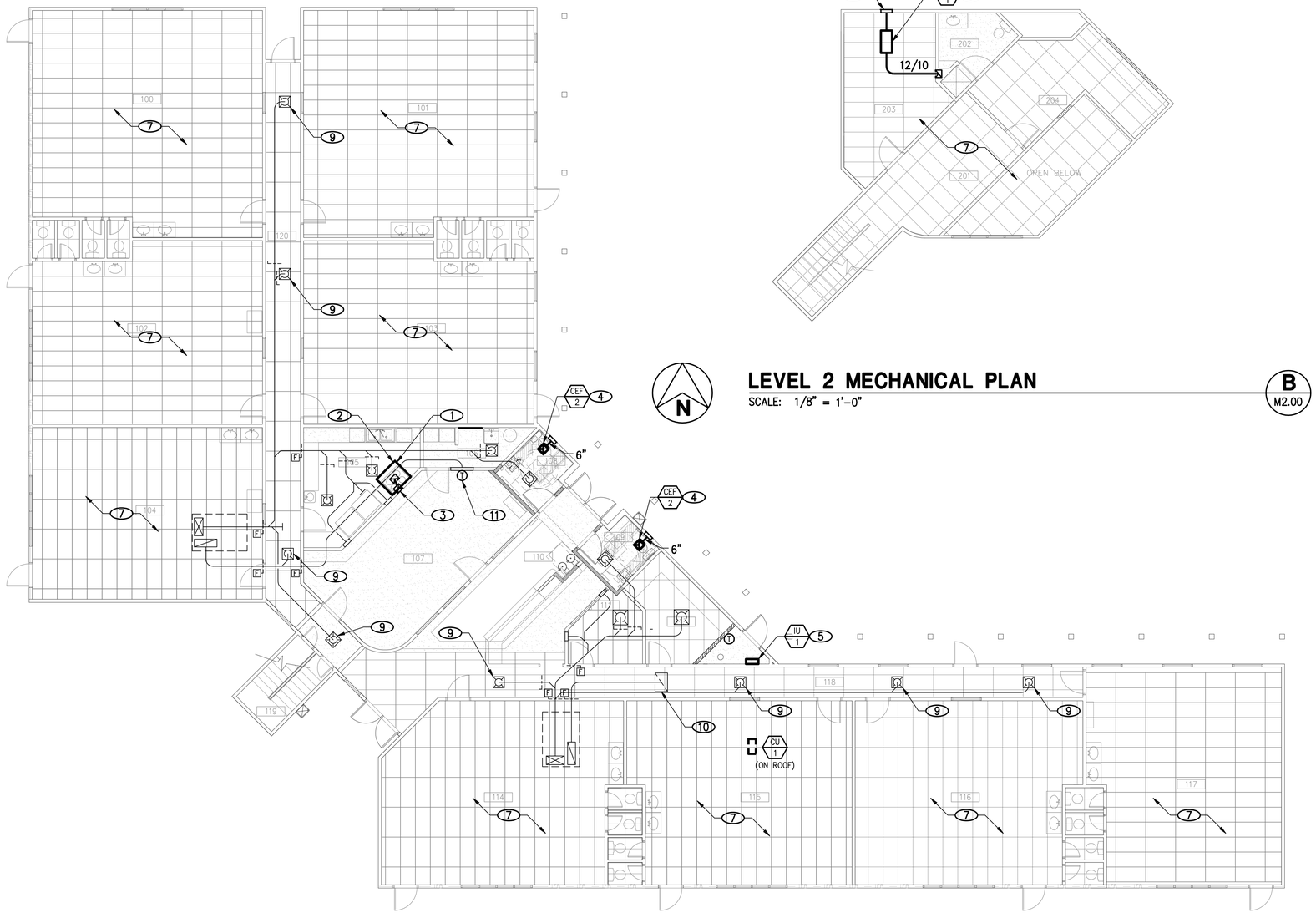

LEVEL 1 MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

A
M2.00

LEVEL 2 MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

B
M2.00

NOTICE

1. EXISTING RANGE HOOD AND EXHAUST FAN SHALL BE REPLACED WITH NEW TYPE 2 HOOD AND EXHAUST FAN TO MATCH EXISTING EXHAUST CFM.

NOTES

1. EXISTING RANGE HOOD AND ASSOCIATED DUCTWORK AND EXHAUST FAN TO BE REMOVED.
2. NEW TYPE II KITCHEN HOOD 36" X 42" X 24", SEE SCHEDULE. BALANCE EXHAUST AIRFLOW TO SCHEDULED CFM.
3. 12/10 EA DUCT UP TO MEZZANINE AND CONNECT TO EXHAUST FAN KEF-1.
4. NEW CEILING EXHAUST FAN. REFER TO 1/M6.00 FOR DETAIL. ROUTE 6ø EA DUCT THROUGH THE WALL AND TERMINATE WITH GREENHECK WALL CAP WC-6.
5. WALL MOUNTED INDOOR UNIT. ROUTE REFRIGERANT LINES TO OUTDOOR CONDENSING UNIT ON ROOF. ROUTE 3/4" DRAIN LINE DOWN THE WALL AND TERMINATE ABOVE FLOOR DRAIN.
6. IN-LINE EXHAUST FAN. REFER TO 2/M6.00 FOR DETAIL. BALANCE EXHAUST AIR FLOW TO MATCH EXISTING EXHAUST CFM.
7. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL SA, RA, EA DIFFUSERS AND REGISTERS. ADJUST DIFFUSER LAYOUT TO MATCH THE NEW REPLACED CEILING LAYOUT. REFER TO ARCHITECTURAL PLANS FOR INFORMATION.
8. 30" X 12" OUTSIDE LOUVER, GREENHECK MODEL ESJ-401.
9. REPLACE 9 EXISTING SA DIFFUSERS WITH LAY-IN TYPE CEILING DIFFUSERS.
10. EXISTING RA DIFFUSERS TO REMAIN AND TO BE REUSED.
11. RELOCATE EXISTING THERMOSTAT IN NEW LOCATION.

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ALTA DAYCARE UPGRADES

MECHANICAL PLANS

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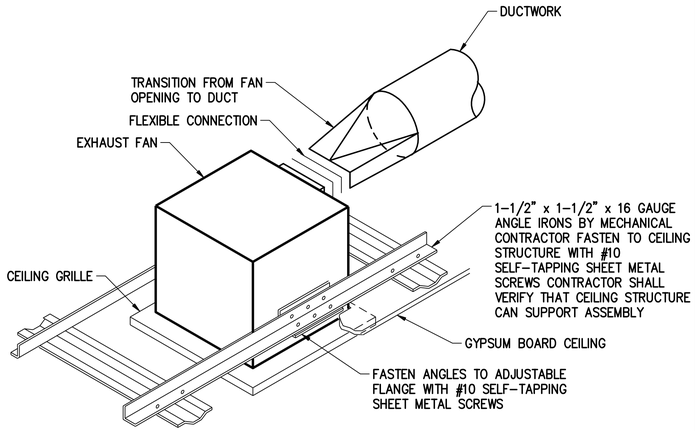
NOTICE:

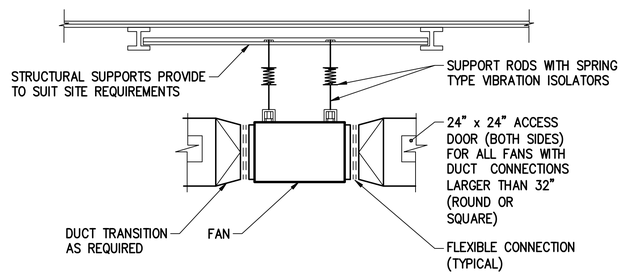
1. LAY–IN CEILING APPLICATIONS SIMILAR.



CEILING EXHAUST FAN

NO SCALE

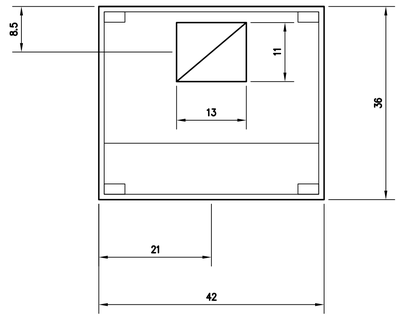
1 M6.00



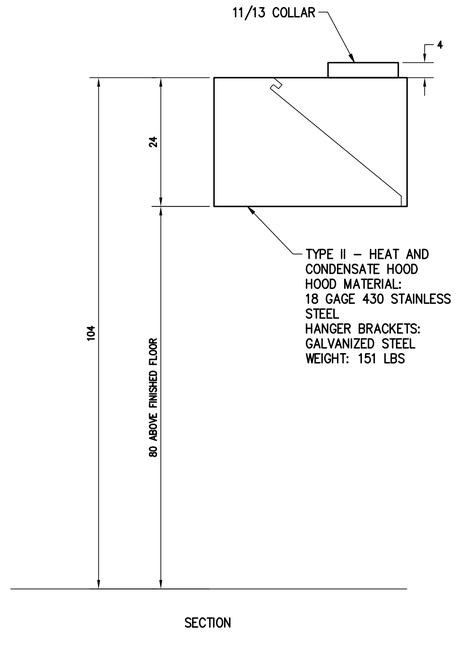
IN-LINE FAN

NO SCALE

2 M6.00



PLAN VIEW



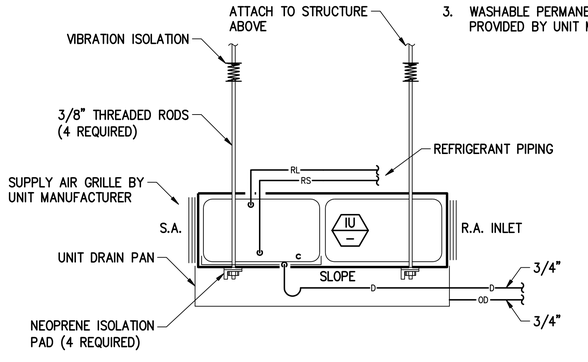
SECTION

TYPE II RANGE HOOD

5 M6.00

NOTE:

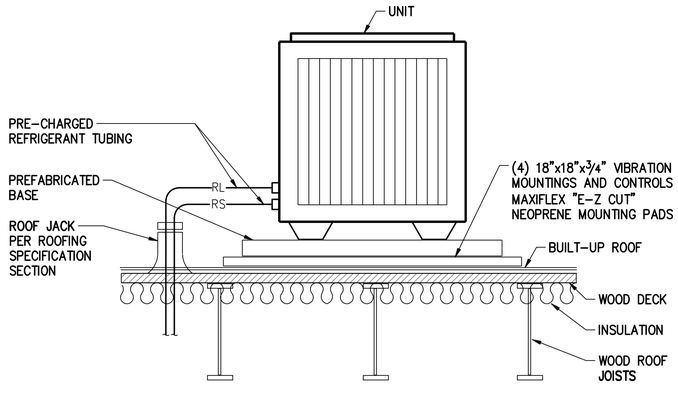
1. ROUTE DRAIN LINE TO A FLOOR SINK OR APPROVED RECEPTOR
2. PROVIDE SECONDARY DRAIN PAN AND ROUTE TO A VISIBLE LOCATION.
3. WASHABLE PERMANENT FILTER TO BE PROVIDED BY UNIT MANUFACTURER.



INDOOR UNIT MOUNTING

(IU–1.1, IU–1.2)

3 M6.00



OUTDOOR UNIT

NO SCALE

4 M6.00

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ELECTRICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION
	SHEET NOTE
	REVISION NUMBER
	COVE/LOW VOLTAGE LIGHTING
A	LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED ON FIXTURE SCHEDULE
	FLUORESCENT FIXTURE
	FLUORESCENT FIXTURE
	DOWNLIGHT FIXTURE
	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS
	WALL MOUNTED FIXTURE
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED WALL MOUNTED
S	SINGLE POLE SWITCH AT +48" UNLESS NOTED
S_3	3-WAY POLE SWITCH AT +48" UNLESS NOTED
S_4	4-WAY POLE SWITCH AT +48" UNLESS NOTED
S_D	DIMMER SWITCH - SOLID STATE TYPE AT +48" UNLESS NOTED
S_{2P}	2 POLE SWITCH
S_K	SWITCH - KEY OPERATED
S_M	SWITCH WITH MOTION SENSOR
S_{2M}	DUAL SWITCH WITH MOTION SENSOR
	CEILING MOUNTED MOTION SENSOR
	DAYLIGHT OR MOTION SENSOR (INDOORS)
S_T	THERMAL OVERLOAD SWITCH
	DUPLEX RECEPTACLE AT +18" UNLESS NOTED
	GFCI RECEPTACLE AT +48" UNLESS NOTED
	DOUBLE DUPLEX RECEPTACLE AT +18" UNLESS NOTED
	ISOLATED GROUND TYPE (ORANGE) DUPLEX RECEPTACLE AT +18" UNLESS NOTED
	SPECIAL RECEPTACLE AT +18" UNLESS NOTED
	FLUSH FLOOR DUPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	1/2 SWITCHED (BOTTOM HALF) DUPLEX RECEPTACLE AT +18" UNLESS NOTED
C	RECEPTACLE INSTALLED ABOVE COUNTER
H	RECEPTACLE INSTALLED HORIZONTALLY
P	SINGLE RECEPTACLE WITH INTEGRAL LOW VOLTAGE TRANSFORMER AND (2) USB PORTS
	JUNCTION BOX
FS	JUNCTION BOX AND SWITCH WITH CONNECTION TO FIRE/SMOKE DAMPER. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM AND MECHANICAL CONTROL DIAGRAMS
V	JUNCTION BOX AND SWITCH WITH CONNECTION TO VARIABLE AIR VOLUME BOX. COORDINATE REQUIREMENTS WITH MECHANICAL CONTROL DIAGRAMS
	NON-FUSED DISCONNECT SWITCH - 30A, 3P UNLESS NOTED OTHERWISE

ELECTRICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION
	FUSED DISCONNECT SWITCH - 30A, 3P WITH 30A FUSES UNLESS NOTED OTHERWISE
	RELAY
	CONTACTOR
	TIMESWITCH
	PHOTOCELL (INSTALL ON ROOF FACING NORTH)
	THERMOSTAT OUTLET AT +44" UNLESS NOTED
	PUSHBUTTON TYPE CONTROL STATION
	SURFACE MOUNTED PANELBOARD
	MAIN SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
	CONCRETE PULLBOX WITH HEAVY DUTY STEEL TRAFFIC COVER
T	TRANSFORMER
	MOTOR OUTLET
	HOMERUN CONDUIT - STROKES INDICATE QUANTITY OF CONDUCTORS
	CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS
	CONDUIT AND/OR WIRE BELOW FLOOR OR GRADE
	EXISTING CONDUIT AND/OR WIRE TO BE REMOVED
	EXISTING CONDUIT AND/OR WIRE TO REMAIN (SHOWN LIGHT LINEWEIGHT)
	CONDUIT STUB-OUT
	CIRCUITING - STROKE WITH DOT INDICATES ISOLATED GROUND CONDUCTOR
	1/2"-2 #12 & 1 #12 GRND THWN UNLESS NOTED
	1/2"-3 #12 & 1 #12 GRND THWN UNLESS NOTED
	1/2"-4 #12 & 1 #12 GRND THWN UNLESS NOTED
	CIRCUIT BREAKER
	FUSIBLE SWITCH
	GROUNDING ELECTRODE
M	SINGLE METER WITH CT
	SHUNT TRIP DEVICE LOCATED IN METAL ENCLOSURE WITH HINGED AND LOCKABLE COVER
	MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS
	METER
	GROUND BUS AND GROUND ELECTRODES

PLAN/RISER
SHEET

PLAN
SHEET

MECHANICAL EQUIPMENT TYPE
MECHANICAL EQUIPMENT NUMBER
E = EXISTING

SHEET INDEX

ISSUE: 2017-06-22 RECORD DRAWINGS	SHEET NUMBER	SHEET DESCRIPTION
•	E0.00	COVER SHEET
•	E0.01	LIGHTING FIXTURE SCHEDULE
•	E0.01	LIGHTING FIXTURE SCHEDULE
•	ES1.01	ELECTRICAL SITE PLAN
•	ED1.01	LIGHTING DEMO PLANS
•	E1.01	LIGHTING PLAN
•	E2.01	POWER PLAN
•	E5.01	SINGLE LINE DIAGRAM AND SCHEDULES

2009 IECC LIGHTING COMPLIANCE CALCULATIONS

1. AN ENERGY COMPLIACNE REPORT WILL NOT BE PROVIDED IN ACCORDANCE WITH IECC 2009, SOUTHERN NEVADA AMMENDMENTS SECTION 101.43, EXCEPTION #7.

RECORD DRAWINGS

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#15.0881

CITY OF LAS VEGAS
PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS

REVISIONS

CONSULTANT

JBA Las Vegas
5155 W Patrick Ln
Las Vegas, NV 89118
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jba consulting engineers

ALTA DAYCARE UPGRADES

COVER SHEET

STAMP

ORIGINALLY SIGNED BY
ROBERT R. JONES, PE
LICENSE # NV 021370
ON 12/14/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN	DJG
TITLE	
DATE	06/22/2017
SCALE	AS NOTED
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	E0.00

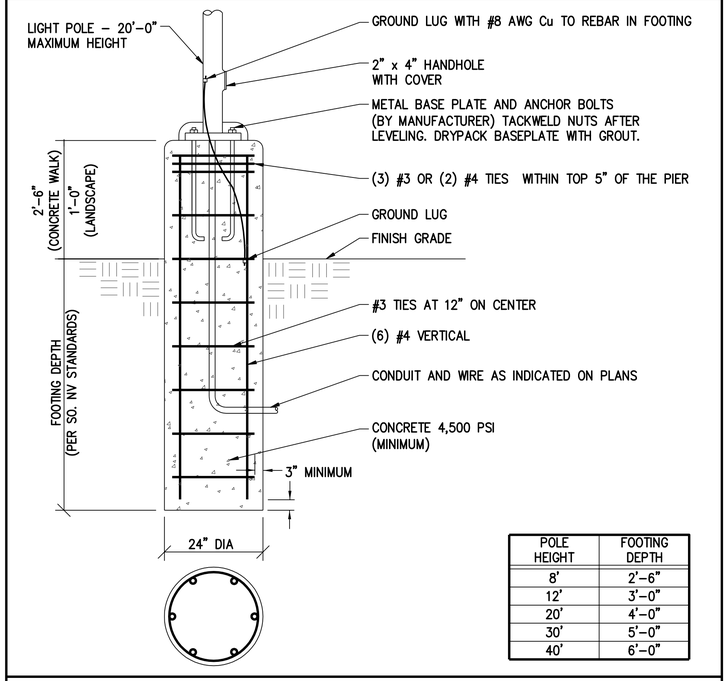
DRAWINGS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL WHOSE SEAL OF CERTIFICATION APPEARS ON THE DRAWINGS AND SPECIFICATIONS. ANY USE OR REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT IS STRICTLY PROHIBITED COPIES OF THE DRAWINGS AND SPECIFICATIONS PREPARED BY THE CONSULTANT MAY BE UTILIZED ONLY FOR ACCEPTING THE PROJECT FOR WHICH THEY WERE PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT N A C 623.280

FIXTURE SCHEDULE

FIXT. TYPE	MANUFACTURER NAME	MANUFACTURER CATALOG NUMBER	VOLT AMPS	MOUNTING	LAMP TYPE	REMARKS	VOLT
A	METALUX	FC8 232 A125 UNV EL	64	RECESSED	(2) F32T8 35K	1'X4', 2 LAMP, FLUORESCENT FLANGED, ACRYLIC LENS, EMERGENCY BATTERY PACK	120
B	LUMARK	XTOR1A	7	SURFACE	LED	WALL BRACKET	120
C	METALUX	2GC8 232 A125 UNV EB81	64	RECESSED	(2) F32T8 / 35K	2'x4' 2 LAMP LENSED GRID TROFFER	120
CE	METALUX	2GC8 232 A125 UNV EB81 EL14	64	RECESSED	(2) F32T8 / 35K	2'x4' 2 LAMP LENSED GRID TROFFER WITH EMERGENCY BATTERY PACK	120
⋙	SURE-LITES	SEL25		SURFACE	LED	DUAL HEAD EMERGENCY BATTERY PACK UNIT	120
⊗	SURE-LITES	LPX 6	1	SURFACE	LED	EXIT SIGN, WHITE WITH RED LETTERS, ARROWS AS INDICATED ON PLAN	120
AA1	McGRAW EDISON	GLEON AE 04 LED E1 T4FT 700 MS/X-L20 POLE: SSS4A20S	138	POLE, SEE 1/E0.01	LED 4000K	SINGLE HEAD LED PARKING LOT FIXTURE ON 20'-0" POLE, DUAL LEVEL MOTION SENSOR	120
AA2	McGRAW EDISON	GLEON AE 04 LED E1 T4FT 700 MS/X-L20 LS/HSS POLE: SSS4A20S	138	POLE, SEE 1/E0.01	LED 4000K	SINGLE HEAD LED PARKING LOT FIXTURE ON 20'-0" POLE, DUAL LEVEL MOTION SENSOR, HOUSE SIDE SHEILD	120

NOTICE

1. REFER TO SOUTHERN NEVADA BUILDING OFFICIALS REGIONAL STANDARDS BOLTED LIGHT POLE BASE DETAIL. IN THE CASE OF ANY DISCREPANCIES SO. NV STANDARDS SHALL GOVERN.



POLE HEIGHT	FOOTING DEPTH
8'	2'-6"
12'	3'-0"
20'	4'-0"
30'	5'-0"
40'	6'-0"

BOLTED LIGHT POLE BASE - ABOVE GRADE

NO SCALE

1 / E0.01

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DEPARTMENT OF PUBLIC WORKS

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ALTA DAYCARE UPGRADES

LIGHTING FIXTURE SCHEDULE

STAMP

ORIGINALLY SIGNED BY
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ON 02/08/2016

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FILE	
DATE	06/22/2017
SCALE	AS NOTED
BID NO	15.60316.JH
CLV DWG NO	521-301
HANSEN NO	60316
SHT NO	E0.01

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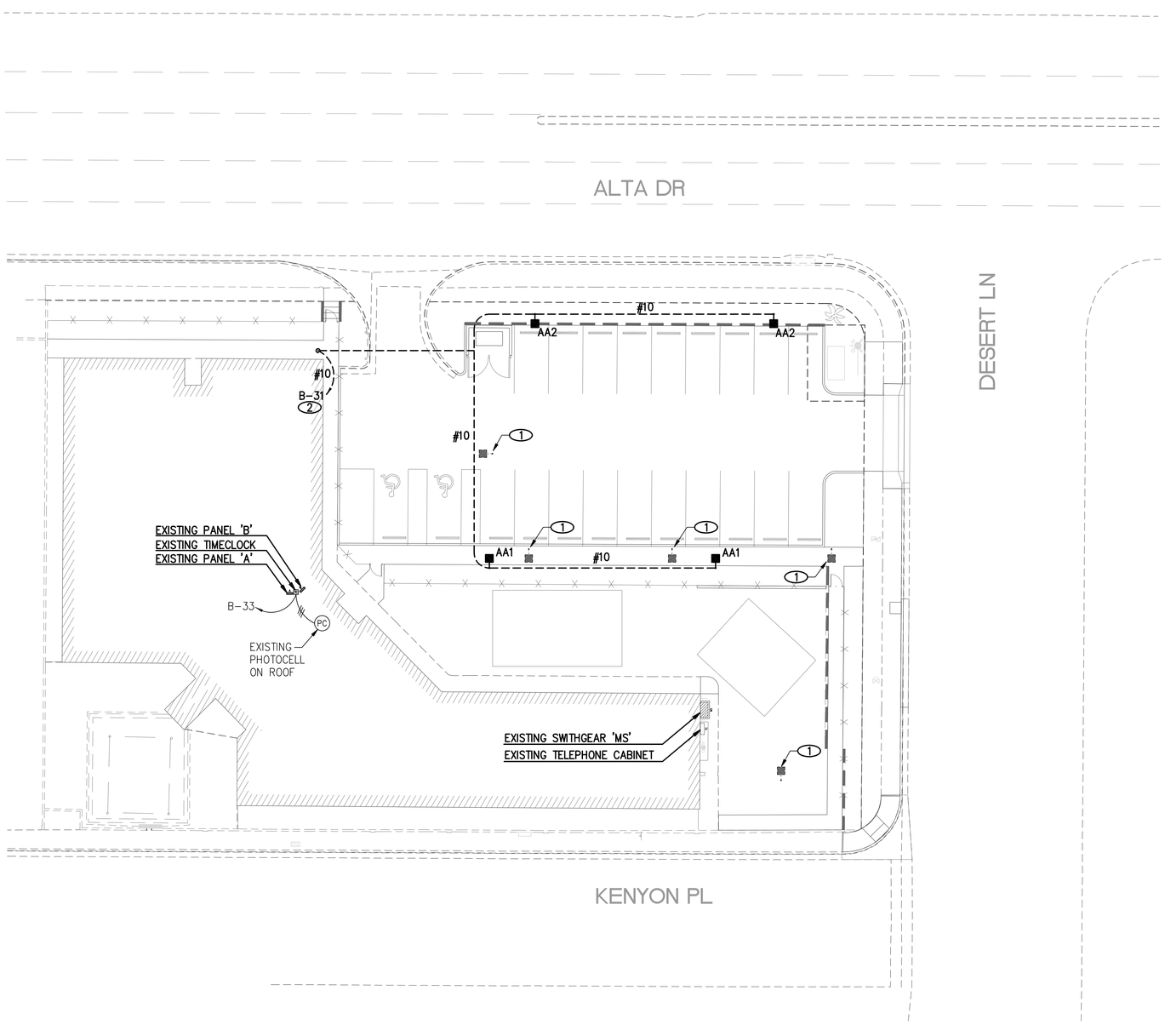

ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"

A
ES1.01

NOTICE

1. EXISTING SHOWN LIGHT, NEW SHOWN BOLD.

NOTES

1. REMOVE EXISTING POLE LIGHT, BASE, RACEWAYS, WIRING ETC.
2. ROUTE CIRCUIT VIA EXISTING TIMECLOCK AND PHOTOCELL.

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ALTA DAYCARE UPGRADES
ELECTRICAL SITE PLAN

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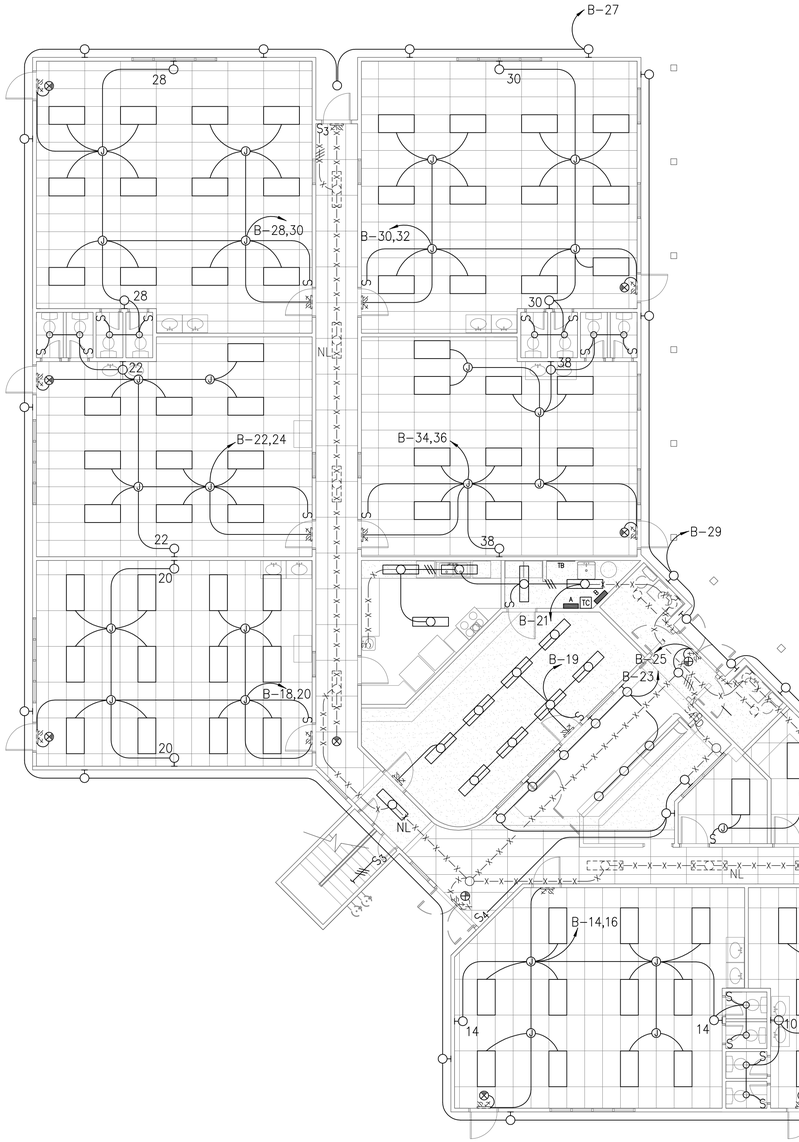
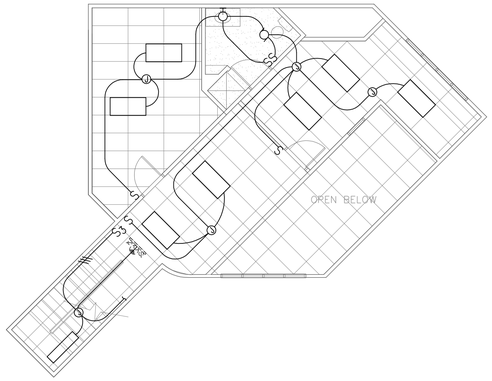


FIRST FLOOR - LIGHTING DEMO PLAN

SCALE: 1/8" = 1'-0"

A
E1.01



SECOND FLOOR - LIGHTING DEMO PLAN

SCALE: 1/8" = 1'-0"

B
E1.01

NOTICE

1. EXISTING SHOWN LIGHT, EXISTING TO BE REMOVED SHOWN LIGHT AND DASHED.

NOTES

(1) NOT USED

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LIGHTING DEMO PLANS

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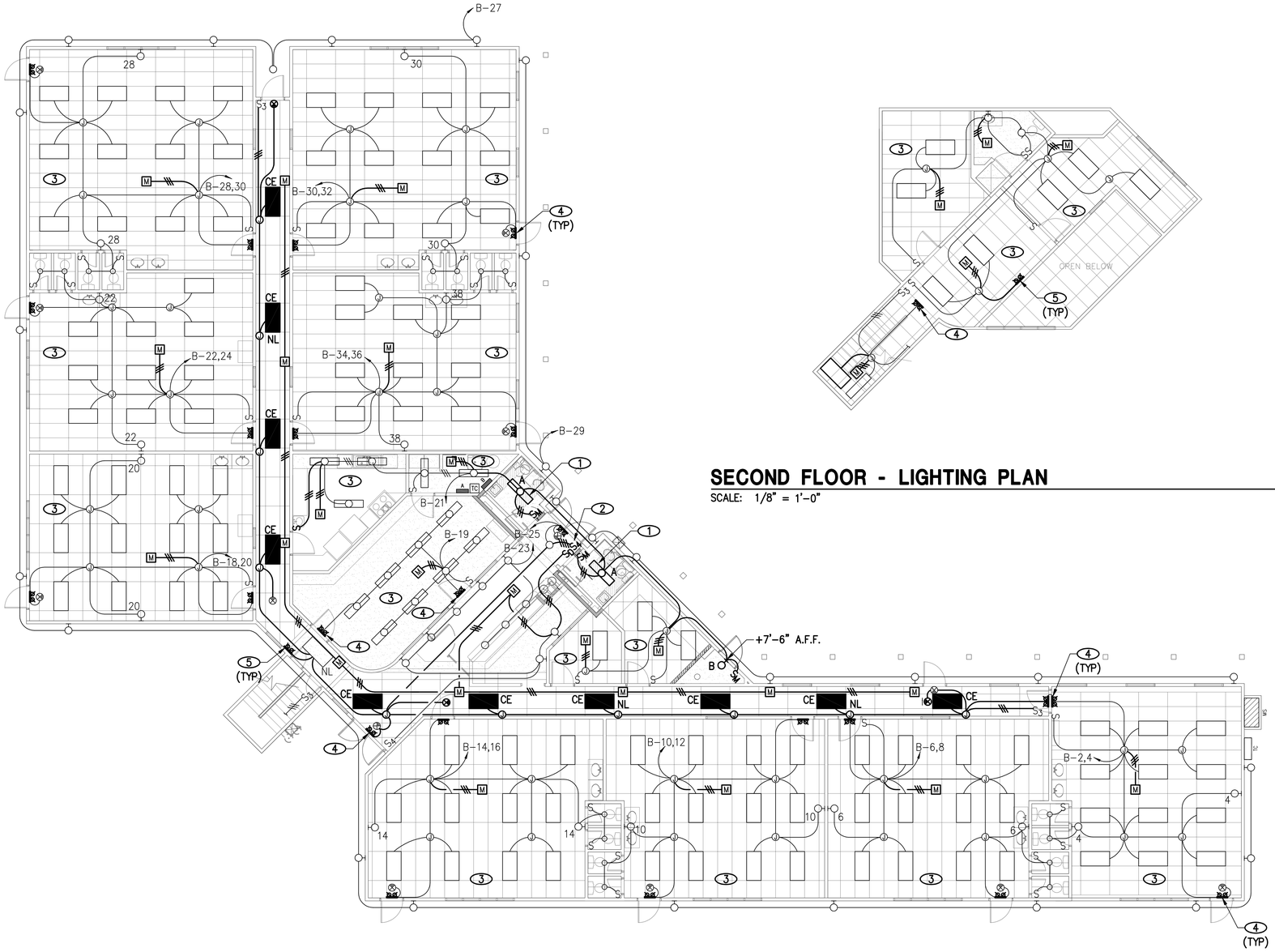

SECOND FLOOR - LIGHTING PLAN

SCALE: 1/8" = 1'-0"

B
E1.01

FIRST FLOOR - LIGHTING PLAN

SCALE: 1/8" = 1'-0"

A
E1.01

NOTICE

1. EXISTING SHOWN LIGHT, EXISTING TO BE REMOVED SHOWN LIGHT AND DASHED, NEW SHOWN BOLD.

NOTES

1. REMOVE AND REPLACE EXISTING FIXTURE. CONNECT TO EXISTING CIRCUIT. PROVIDE SWITCHING AS INDICATED.
2. REMOVE AND REPLACE EXISTING SWITCHES. PROVIDE RACEWAYS, BOXES, WIRING, ETC AS REQUIRED TO EXTEND CIRCUITING.
3. EXISTING FLUORESCENT FIXTURES TO REMAIN. CLEAN AND RE-LAMP. PROVIDE NEW BALLASTS AS REQUIRED,
4. REMOVE AND REPLACE EMERGENCY BATTERY BACK-UP UNIT. RE-CONNECT TO EXISTING CIRCUIT.
5. PROVIDE ADDITIONAL EMERGENCY BATTERY BACK-UP UNITS FOR EMERGENCY EGRESS. PROVIDE UN-SWITCHED HOT ROOM LIGHTING CIRCUIT. VERIFY CONNECTION LOCATION WITH FIELD CONDITION.

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LIGHTING PLAN

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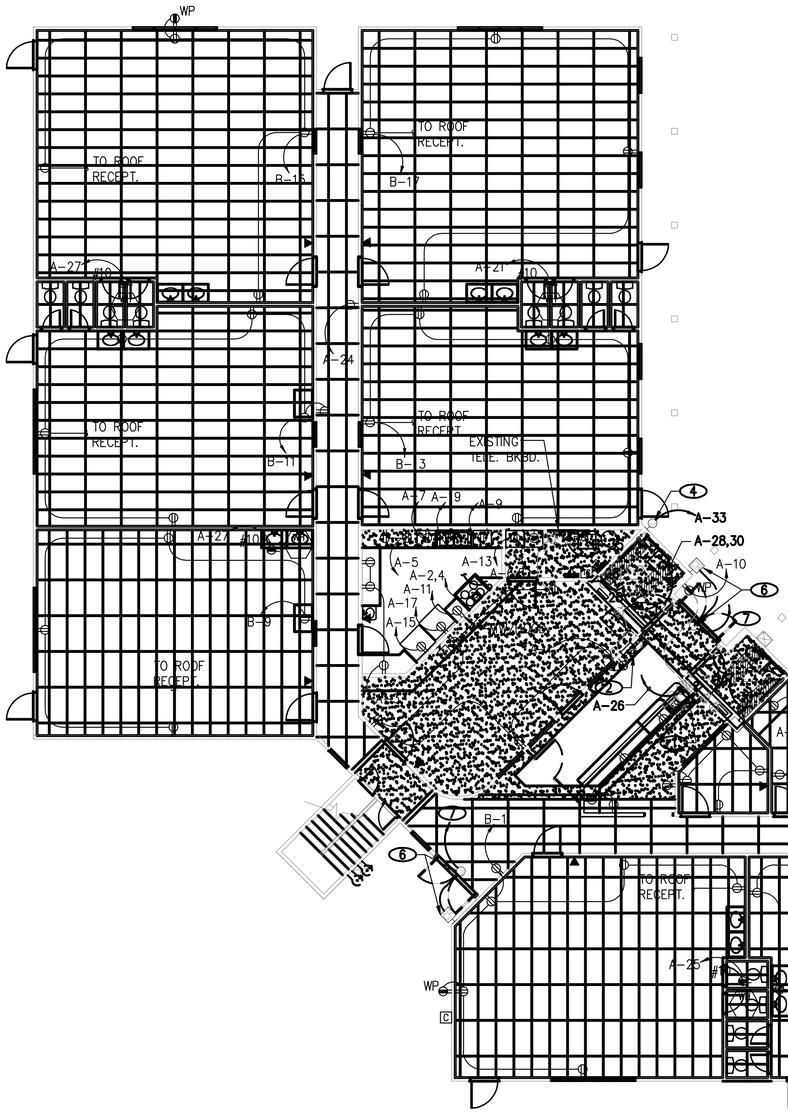
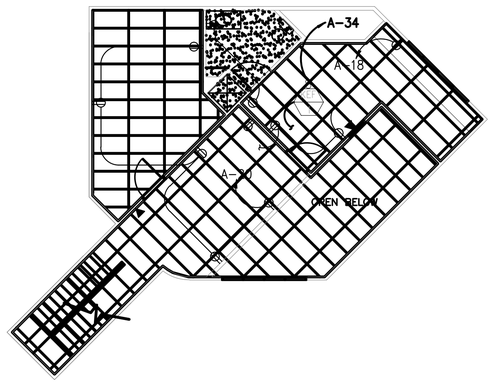


FIRST FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

A
E2.01



SECOND FLOOR - POWER PLAN

SCALE: 1/8" = 1'-0"

B
E2.01

NOTICE

1. EXISTING SHOWN LIGHT, EXISTING TO BE REMOVED SHOWN LIGHT AND DASHED, NEW SHOWN BOLD.
2. REFER TO FIRE ALARM SPECIFICATION FOR FIRE ALARM SYSTEM REQUIREMENTS.

NOTES

1. RECEPTACLE FOR EWC, COORDINATE ROUGH-IN LOCATION AND HEIGHT WITH DIVISION 22. PROVIDE CORD AND PLUG SET.
2. EXISTING FIRE ALARM CONTROL PANEL TO BE REMOVED AND REPLACED, SEE SPECIFICATION. CONNECT NEW PANEL TO EXISTING POWER CIRCUIT AND REMOTE ALARM. PROVIDE ALL RACEWAYS, WIRING, ETC. AS REQUIRED.
3. CONNECT TO ELECTRONIC TRAP PRIMER. COORDINATE WITH DIVISION 21.
4. LANDSCAPE IRRIGATION CONTROLLER, COORDINATE LOCATION AND REQUIREMENTS WITH LANDSCAPE DRAWINGS.
5. IU-1 & CU-1 ARE INTERLOCKED BY THE MANUFACTURER.
6. CARD READER, REFER TO DIAGRAM 1/E0.01.
7. 3/4"C TO 'TBB', REFER TO DIAGRAM 1/E0.01.

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ALTA DAYCARE UPGRADES

POWER PLAN

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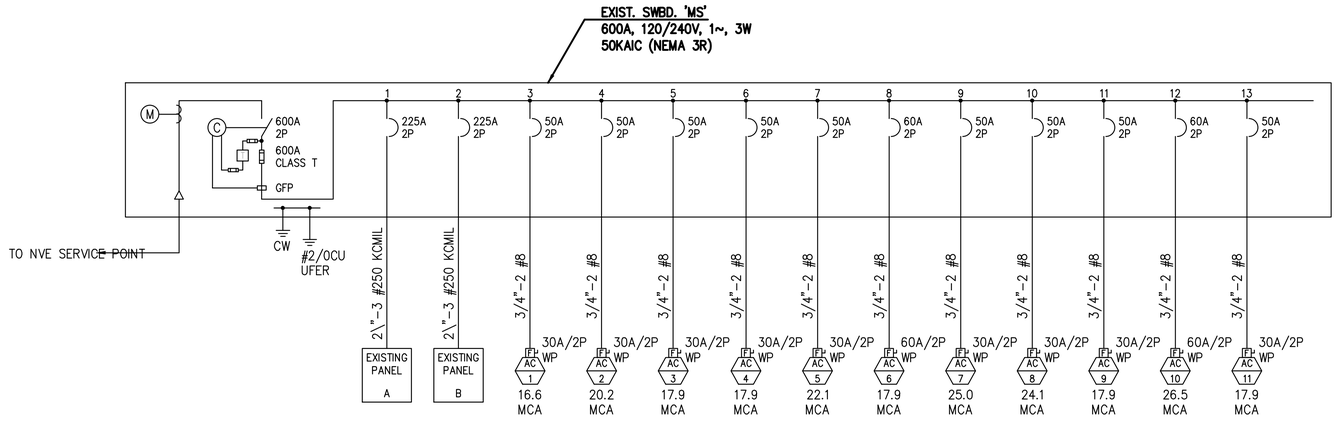

SINGLE LINE DIAGRAM

SCALE: NONE

1 / E5.01

NOTICE

1. EXISTING SHOWN LIGHT, NEW SHOWN BOLD.
2. EXISTING SINGLE LINE DIAGRAM SHOWN FOR REFERENCE ONLY.

LOAD CALCULATIONS

EXISTING SWITCHBOARD 'MS'			
EXIST. PANEL 'A'	=	49.9	KVA
EXIST. PANEL 'B'	=	47.0	KVA
EXIST. AC-1	=	3.2	KVA
EXIST. AC-2	=	3.9	KVA
EXIST. AC-3	=	3.4	KVA
EXIST. AC-4	=	3.4	KVA
EXIST. AC-5	=	4.2	KVA
EXIST. AC-6	=	3.4	KVA
EXIST. AC-7	=	4.8	KVA
EXIST. AC-8	=	4.6	KVA
EXIST. AC-9	=	3.4	KVA
EXIST. AC-10	=	5.0	KVA
EXIST. AC-11	=	3.4	KVA
TOTAL	=	140	KVA
/240V ,1~	=	582	A

EXISTING

PANEL: A — VOLTAGE: 240 / 120 1Ø 3W — BUS: 225A — MAINS: LO — AIC RATING: 10,000 — DATE: 12/12/16 11:29 AM — JOB: 15.0881 — LOCATION: UTILITY ROOM — MOUNTING: FLUSH — CIRCUIT CODE: blank or N: NON-CONTINUOUS, L: LONG-CONTINUOUS, R: DEMANDABLE RECEPTACLES, K: KITCHEN — NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION (NOTE)	M	R	L	ØA	ØB	A	B	ØA	ØB	L	R	M	LOAD DESIGNATION (NOTE)	TRIP	POLE	CODE	CKT NO
1	R	20	1	(E) REC – PLAYROOM				1620		·		4000					(E) RANGE	50		N	2
3	R	20	1	(E) REC – KITCHEN					1500	·			4000				–		2	N	4
5	R	20	1	(E) REC – KITCHEN				1500		·		2500					(E) DRYER	30		N	6
7	N	20	1	(E) DISHWASHER					1200	·			2500				–		2	N	8
9	N	20	1	(E) DISHWASHER				800		·		1200					(E) WATER COOLER	20	1	N	10
11	N	20	1	(E) MICROWAVE/HOOD					1620	·			1800				(E) REC – RECEPTION, DIRECTOR	20	1	R	12
13	N	20	1	(E) WASHER				1500		·		1440					(E) REC – COMPUTER ROOM	20	1	R	14
15	N	20	1	(E) REFRIGERATOR					900	·			1920				(E) LTS – UPPER	20	1	L	16
17	N	20	1	(E) REFRIGERATOR				900		·		1440					(E) REC – UPPER	20	1	R	18
19	N	20	1	(E) GARBAGE DISPOSAL					750	·			1260				(E) REC – UPPER	20	1	R	20
21	N	30	1	(E) WATER HEATER				800		·		1100					(E) WATER COOLER	20	1	N	22
23	N	30	1	(E) WATER HEATER					800	·			1100				(E) WATER COOLER	20	1	N	24
25	N	30	1	(E) WATER HEATER				1100		·		700		1			(E) REC – EWC	20	1	N	26
27	N	30	1	(E) WATER HEATER					1100	·			250	1	1		(E) REC RR, CEF-1	20	1	N	28
29	N	30	1	(E) WATER HEATER				2250		·		250		1	1		(E) REC RR, CEF-2	20	1	N	30
31	N		2	–					2250	·			420	1	2		(E) REC RISER, ETP	20	1	N	32
33	R	20	1	LANDSCAPING CONTROLLER (1)				180		·		700				1	KEF-1	20	1	N	34
35				(E) SPACE					–	·			–				(E) SPACE	20	1		36
37				(E) SPACE				–		·		–					(E) SPACE	20	1		38
39				(E) SPACE					–	·			1200	2			IU-1, CU-1	15		N	40
41				(E) SPACE				–		·		1200					–		2	N	42

PANEL NOTES: PHASE TOTALS ØA: 25180 ØB: 24570

(1) PROVIDE CIRCUIT BREAKER AS INDICATED. MATCH EXISTING MANUFACTURER, FRAME AND TYPE.

PANEL NOTICE:
1. EXISTING LOAD CENTER, 42 CIRCUIT, NEMA 1

TOTAL CONNECTED VA	49750
CONNECTED VA (CODE N)	37090
CONNECTED VA (CODE L)	1920
CONNECTED VA (CODE R)	10740
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	49.8
PANEL DEMAND KVA	49.9
PANEL DEMAND AMPS	207.8
HIGH Ø AMPS w/ DEMAND	210.6

EXISTING

PANEL: B — VOLTAGE: 240 / 120 1Ø 3W — BUS: 225A — MAINS: LO — AIC RATING: 10,000 — DATE: 1/22/16 12:22 PM — JOB: 15.0881 — LOCATION: UTILITY ROOM — MOUNTING: FLUSH — CIRCUIT CODE: blank or N: NON-CONTINUOUS, L: LONG-CONTINUOUS, R: DEMANDABLE RECEPTACLES, K: KITCHEN — NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION (NOTE)	M	R	L	ØA	ØB	A	B	ØA	ØB	L	R	M	LOAD DESIGNATION (NOTE)	TRIP	POLE	CODE	CKT NO
1	R	20	1	(E) REC – ROOM 114				980		·		1920					(E) LTS – ROOM 117	20	1	N	2
3	R	20	1	(E) REC – ROOM 115					1160	·			1000				(E) LTS – ROOM 117	20	1	N	4
5	R	20	1	(E) REC – ROOM 116				1160		·		1920					(E) LTS – ROOM 116	20	1	N	6
7	R	20	1	(E) REC – ROOM 117					980	·			1920				(E) LTS – ROOM 116	20	1	N	8
9	R	20	1	(E) REC – ROOM 104				980		·		1920					(E) LTS – ROOM 115	20	1	N	10
11	R	20	1	(E) REC – ROOM 102					1800	·			1160				(E) LTS – ROOM 115	20	1	N	12
13	R	20	1	(E) REC – ROOM 103				1980		·		880					(E) LTS – ROOM 114	20	1	N	14
15	R	20	1	(E) REC – ROOM 100					1260	·			180				(E) LTS – ROOM 114	20	1	N	16
17	R	20	1	(E) REC – ROOM 101				1800		·		980					(E) LTS – ROOM 104	20	1	N	18
19	N	20	1	(E) LTS – PLAYROOM					1260	·			1800				(E) LTS – ROOM 104	20	1	N	20
21	N	30	1	(E) LTS – 106, 108, 111, 113				1260		·		1280					(E) LTS – ROOM 102	20	1	N	22
23	N	30	1	(E) LTS – LOBBY					960	·			1400				(E) LTS – ROOM 102	20	1	N	24
25	N	30	1	(E) LTS – CORRIDOR				1280		·		1575					(E) LTS – ROOM 100	20	1	N	26
27	N	30	1	(E) LTS – EXT. BLDG	(1)				1580	·			1285				(E) LTS – ROOM 100	20	1	N	28
29	N	20	1	(E) LTS – EXT. REAR	(1)			1580		·		1475					(E) LTS – ROOM 101	20	1	N	30
31	N	20	1	(E) LTS – PARKING ENTRY	(1)	(2)	4		552	·			1775				(E) LTS – ROOM 101	20	1	N	32
33	N	20	1	(E) TIME CLOCK / PHOTOCELL				800		·		1200					(E) LTS – ROOM 103	20	1	N	34
35	N	20	1	TELEPHONE BACKBOARD	(3)				–	·			1200				(E) LTS – ROOM 103	20	1	N	36
37				(E) SPACE				–		·		–					(E) SPACE				38
39				(E) SPACE					–	·		–					(E) SPACE				40
41				(E) SPACE				–		·		–					(E) SPACE				42

PANEL NOTES: PHASE TOTALS ØA: 24970 ØB: 21272

(1) CIRCUITS CONTROLLED VIA LIGHTING CONTACTOR, TIMECLOCK, PHOTOCELL.
(2) EXISTING CIRCUIT MADE AVAILABLE THRU DEMOLITION.
(3) PROVIDE CIRCUIT BREAKER IN EXISTING SPACE. MATCH EXISTING MANUFACTURER, FRAME AND TYPE.

PANEL NOTICE:
1. EXISTING LOAD CENTER, 42 CIRCUIT, NEMA 1

TOTAL CONNECTED VA	46242
CONNECTED VA (CODE N)	34142
CONNECTED VA (CODE L)	0
CONNECTED VA (CODE R)	12100
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	46.2
PANEL DEMAND KVA	45.2
PANEL DEMAND AMPS	188.3
HIGH Ø AMPS w/ DEMAND	200.2

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#15.0881

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CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

ALTA DAYCARE UPGRADES

SINGLE LINE DIAGRAM AND SCHEDULES

STAMP
ORIGINALLY SIGNED BY
LESLIE J. FERNANDEZ, PE
LICENSE # NV 011890
ON 03/09/2016

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN: DJG
FILE:
DATE: 06/22/2017
SCALE: AS NOTED
BID NO: 15.60316.JH
CLV DWG NO: 521-301
HANSEN NO: 60316
SHT NO: E5.01

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