CIVIL IMPROVEMENT PLANS
FOR
SKY POINTE AND FORT APACHE STORAGE

APN: 125-07-710-001

SECTION 7, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M.,
CITY OF LAS VEGAS, NEVADA
ACRES: 3.88

SYMBOLS

EXISTING / PROPOSED

- BLOWOFF AND CAP
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- RPPA/RPDA
- WATER METER
- GATE VALVE
- SEWER CLEANOUT
- FLOW ARROW
- MANHOLE
- UTILITY BOX/VAULT
- BOLLARD
- STREETLIGHT
- UTILITY POLE
- UTILITY POLE GUY
- POLE AND MAST ARM
- AREA LIGHT
- DROP INLET
- SIGN

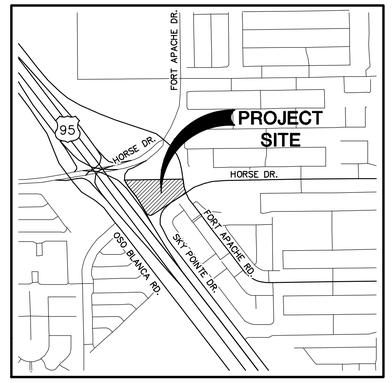
LEGEND

- RIGHT-OF-WAY LINE
- PROPERTY LINE
- CENTERLINE/SECTION LINE
- ADJACENT PROPERTY LINE
- SAWCUT LINE

EXISTING	PROPOSED	
		EDGE OF PAVEMENT
		EASEMENT
		FLOWLINE
(EX-WL)	WL	WATERLINE
(EX-SS)	SS	SANITARY SEWER
(EX-SD)	SD	STORM DRAIN
(EX.-GAS)	GAS	GAS
(STLT)	STLT	STREETLIGHT CONDUIT
(EX.-UGP)	UGP	POWER
(EX.-CATV)	CATV	POWER
(EX.-TEL)	TEL	TELEPHONE
(1980)	1980	CONTOUR
X	X	CHAIN LINK FENCE
		WROUGHT IRON FENCE
		CURB & GUTTER
		WALL
		SIDEWALK
		AC PAVEMENT
		RIP-RAP
		BUILDING

ABBREVIATIONS

AB	ABANDONED
AC	ASPALT CONCRETE
AVE	AVENUE
BC	BACK OF CURB
BCR	BEGIN CURB RETURN
BLVD	BOULEVARD
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
BO	BLOWOFF
BSW	BACK OF SIDEWALK
BVC	BEGIN VERTICAL CURVE
BW	BOTTOM OF WALL
BWV	BACKWATER VALVE
CATV	CABLE TELEVISION
CC	CLARK COUNTY
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS
CATV	CABLE TELEVISION
CL	CENTERLINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLV	CITY OF LAS VEGAS
CNLV	CITY OF NORTH LAS VEGAS
COH	CITY OF HENDERSON
CSP	CONCRETE SPECIALITY PAVEMENT
CU	COPPER
CY	CUBIC YARDS
D	DEPTH
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DIP	DUCTILE IRON PIPE
DOC	DOUCMENT
DOM	DOMESTIC
DWY	DRIVEWAY
E	EAST
E	ELECTRICAL
EA	EACH
EG	EXISTING GROUND
ECR	END CURB RETURN
ELEV	ELEVATION
ELEC	ELECTRIC
EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EX	EXISTING
F	FUEL
FC	FACE OF CURB
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTIC
FT	FEET
G	NATURAL GAS
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
HORIZ	HORIZONTAL
HYD	FIRE HYDRANT
IFC	INTERNATIONAL FIRE CODE
INST	INSTRUMENT
INT	INTERSECTION
INV	INVERT
IRR	IRRIGATION
LF	LINEAR FEET
LS	LANDSCAPE
LT	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MH	MANHOLE
MIN	MINIMUM
MUE	MUNICIPAL USE EASEMENT
N	NORTH
NAP	NOT A PART
NTS	NOT TO SCALE
OC	ON CENTER
PAE	PUBLIC ACCESS EASEMENT
PC	POINT OF CURVE
POC	POINT OF CONNECTION
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INFLECTION
PUE	PUBLIC UTILITY EASEMENT
R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RPM	RAISED PAVEMENT MARKER
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SWLK	SIDEWALK
SF	SQUARE FEET
SL	STREET LIGHT
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STL	STEEL
STLT	STREETLIGHT
STD	STANDARD
SY	SQUARE YARDS
T	TELEPHONE
TB	TOP OF BERM
TBC	TOP OF BACK OF CURB
TC	TOP OF CURB
TCD	TRAFFIC CONTROL DEVICE
TF	TOP OF FOOTING
TG	TOP OF GRATE
T.O.P.	TOP OF PIPE
TR	TOP RETAINING
TS	TRAFFIC SIGNAL
TYP	TYPICAL
TW	TOP OF WALL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
UGP	UNDERGROUND POWER
VERT	VERTICAL
W	WEST
WL	WATERLINE
WTR	WATER



VICINITY MAP
NTS

SHEET LIST		
No.	SHEET	
1	C1.00	COVER SHEET
2	C1.01	GENERAL NOTES
3	C2.00	OVERALL GRADING PLAN
4	C2.01	GRADING PLAN 1
5	C2.02	GRADING PLAN 2
6	C3.00	OVERALL UTILITY PLAN
7	C3.01	UTILITY PLAN 1
8	C3.02	UTILITY PLAN 2
9	C3.03	UTILITY PLAN 3
10	C3.04	WATERLINE ENLARGEMENTS & PROFILES
11	C3.05	SANITARY SEWER ENLARGEMENT & PROFILE
12	C4.01	HORIZONTAL AND TRAFFIC CONTROL PLAN 1
13	C5.01	DETAIL SHEET 1
14	C5.02	DETAIL SHEET 2
15	C5.03	DETAIL SHEET 3

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING & ENGINEERING SERVICES

PROJECT NO. 140664 FIRST APPROVED DATE _____

LVVWD APPROVED FIRE FLOW: TOTAL 3500 GPM/ONSITE 3500 GPM

SHEETS: C1.00 C1.01 C3.00 C3.01 C3.02 C3.03 C3.04 C3.05 C5.02

PROJECT INFORMATION

OWNER/DEVELOPER
95 STORAGE LLC
8360 W. SAHARA AVE
SUITE 260
LAS VEGAS, NV 89117
(702) 471-1118
CONTACT: BEN MOSHE
EMAIL: BENMOSHE@MYDCOMPANIES.COM

CIVIL ENGINEER
ZENITH ENGINEERING, LLC
1980 FESTIVAL PLAZA DR.
SUITE 450
LAS VEGAS, NV 89135
702-866-9535
CONTACT: JULIA IZZOLO
EMAIL: JULIA@ZENITH-LV.COM

SURVEYOR
GEO PROFESSIONALS LIMITED
1895 N. MICHAEL WAY
LAS VEGAS, NV 89108
702-427-5293
CONTACT: RICHARD SMEDLEY
EMAIL: RCSMEDLEY@LIVE.COM

ASSESSOR'S PARCEL NUMBER
125-07-710-001

BASIS OF BEARINGS
NORTH 53°23'24" EAST
BEING THE BEARING OF THE CENTERLINE OF SKY POINTE DRIVE AS SHOWN ON SHEET 3 IN BOOK 87 OF PLATS, PAGE 22, CLARK COUNTY, NEVADA OFFICIAL RECORDS.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK 5LV908W4
RIVET & PLATE IN TOP OF CURB AT SE CORNER HORSE DR. & FT. APACHE.

ELEVATION (METERS): 813.75
ELEVATION (FEET): 2,669.79 U.S. SURVEY FEET (NAVD 88)

APPROVALS

CITY OF LAS VEGAS ENGINEERING — DATE

PLANNING AND DEVELOPMENT DEPARTMENT — DATE
NOTE:
THIS PLAN CONFORMS TO THE APPLICABLE STANDARD OF THE PLANNING DEPARTMENT.

LAS VEGAS FIRE AND RESCUE — DATE

CENTRAL TELEPHONE COMPANY D/B/A CENTURYLINK — DATE
THE AFFIXED CENTRAL TELEPHONE COMPANY D/B/A 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 RULES AND REGULATIONS.

COX COMMUNICATIONS LAS VEGAS, INC. — DATE

NV ENERGY — DATE
NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NEVADA POWER COMPANY 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.

MIRIAM OREGEL 2022IMM049387 10/20/2022
SOUTHWEST GAS CORPORATION SWG UID — DATE

UTILITIES DISCLAIMER
EXISTING UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. ZENITH ENGINEERING ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Call before you Dig
Avoid cutting underground utility lines, it's costly.
Call 811 or 1-800-642-2444

Avoid overhead power line contact, it's costly.
Call Before You Overhead 1-702-227-2929

REV.	DESCRIPTION	BY	DATE	APPROVAL

REVISION

ZENITH ENGINEERING
1980 FESTIVAL PLAZA DRIVE
SUITE 450
LAS VEGAS, NV 89135
(702) 866-9535

SKY POINTE AND FORT APACHE STORAGE
CITY OF LAS VEGAS

COVER SHEET

DESIGNED BY: S. JOHNSON
DRAWN BY: J. CABRERA
CHECKED BY: J. IZZOLO
HORIZ: N/A
VERT: N/A

PROFESSIONAL ENGINEER — STATE OF NEVADA
JULIA L. IZZOLO
EXP. 06-30-23
CIVIL
No. 20025
10-20-22

JOB No. 211021
DATE: OCTOBER, 2022
DRAWING No. C1.00
1/15

L22-01716 CLV DWG # 107V9693

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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 PUBLICWORKS CONSTRUCTION OFFSITE 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'S 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 AND 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 DESIGNS TO BE APPROVED BY THE CITY, 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 ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
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 THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE BLACK MOUNTAIN GEOTECH REPORT No. 20055, SEPTEMDER 29, 2020 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER 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 ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
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 UTILITY COMPANY AND THE CITY ENGINEER. WALL NOTES:
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 BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, 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 OR THE 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 OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM 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 AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.

OR

~~(MAY BE USED ONLY ON PROJECTS ASSOCIATED WITH A TENATIVE MAP CONTAINING 5 LOTS OR MORE)~~

~~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 AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, 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 MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL UNCERTAINTIES 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 EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

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 CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. 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.
6. 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	COMPACTION
A.	PAVEMENT AREA	SUBGRADE0.1'+	+0.0' TO -0.1'	SEE SOILS REPORT
B.	ENGINEERED FILL	0.5'+	+0.1' TO -0.1'	SEE SOILS REPORT

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. 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.
9. 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.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES GUIDANCE MANUAL SECTION 3.5.1 STANDARD NOTES 1-5

1. STANDARD NOTE NO. 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 LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. STANDARD NOTE NO. 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 LVMC 14.18.130 AND CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT'S HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL SECTION 1500 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. STANDARD NOTE NO. 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. STANDARD NOTE NO. 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 WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. STANDARD NOTE NO. 5: ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER 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

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.
2. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY COMPANIES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT IN THE LOCATION SHOWN PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR EXISTING GAS MAINS AND UNDERGROUND POWER LINES.
3. ALL CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS AND STANDARDS DRAWINGS CLARK COUNTY AREA, NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS," LATEST REVISION.
4. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:

LAS VEGAS VALLEY WATER DISTRICT	702-258-7171
NEVADA POWER COMPANY	702-244-7171
CENTURYLINK TELEPHONE COMPANY	702-633-8400
SOUTHWEST GAS CORPORATION	702-278-8451
COX COMMUNICATIONS CABLE CO.	702-384-8084

5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
6. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CLARK COUNTY TRAFFIC CONTROL PLANS.
7. THE QUANTITIES GIVEN IN THE DRAWINGS ARE APPROXIMATE ONLY, BEING GIVEN AS A BASIS FOR THE COMPARISON OF BIDS, AND THE OWNER DOES NOT EXPRESSLY OR BY IMPLICATION, AGREE THAT THE ACTUAL AMOUNT OF WORK WILL CORRESPOND THEREWITH, BUT RESERVES THE RIGHT TO MAKE SUCH ALTERATIONS, DEVIATIONS, ADDITIONS TO OR OMISSIONS FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE RIGHT TO INCREASE OR DECREASE THE QUANTITY OF ANY ITEM OR PORTION OF THE WORK, AS MAY BE DEEMED BY THE OWNER TO BE NECESSARY. ANY SUCH CHANGES WILL BE SET IN CONNECTION WITH THE CHANGE MADE, ADJUSTMENT OF CONTRACT TIME, IF ANY, AND THE BASIS OF COMPENSATION FOR SUCH WORK. A CONTRACT CHANGE ORDER WILL NOT BECOME EFFECTIVE UNTIL APPROVED BY THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TOT HE FINAL FINISH GRADES IN ACCORDANCE WITH SECTION 609 OF THE STANDARD SPECIFICATIONS.
9. REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, JOINTY-OWNED POLES AND APPURTENANCES WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL TELEPHONE COMPANY MANHOLES TO THE FINAL FINISH GRADES AS SHOWN ON THE CONTRACT DRAWINGS.
11. ALL CONCRETE FOR THIS PROJECT SHALL USE TYPE V CEMENT.
12. ALL SITE GRADING WORK SHALL BE IN STRICT ACCORDANCE WITH THE SOILS REPORT FOR THE SITE. ALL WORK SHALL BE PERFORMED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL SOILS ENGINEER.
13. SLOPES STEEPER THAN 4:1 AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SAND AND SILTY MATERIALS), SHOULD BE PROTECTED WITH BURLAP AND OTHER EROSION CONTROL FABRIC/MATERIALS, UNLESS OTHERWISE SPECIFIED BY THE LANDSCAPE DRAWINGS AND SPECIFICATIONS, OR THE SOILS REPORT.
14. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS.

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 SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.
11. SEWER SERVICES AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCEL AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRE TO PROVIDE SEPARATE SEWER SERVICES TO EACH.

DEVIATION FROM STANDARDS

NONE.

CITY OF LAS VEGAS STREET LIGHT NOTES

1. CITY OF LAS VEGAS STREET LIGHT NOTES ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. LUMINAIRES SHALL BE MARKED TO INDICATE INSTALLATION ORENTATION, AND SHALL HAVE EXTERNAL LABELS PER ANSI C136 THAT INDICATE WATTAGE AND ARE CLEARLY VISIBLE FROM STREET LEVEL.
4. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
5. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.
6. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN No. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
7. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
8. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
9. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.
10. NEW STREELIGHT SERVICES SHALL BE 200 AMP PADMOUNT AND SHALL PROVIDE CAPACITY FOR 20 OR 24 AVAILABLE CIRCUITS.
11. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
12. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

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 REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC). 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.

RTC TRANSIT NOTES

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY BUS STOPS AND BUS STOP AMENITIES SHALL BE AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANT AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY RTC TRANSIT OF PROPOSED BUS STOP CLOSURES AND/OR BUS STOP AMENITY DISRUPTIONS VIA NOTIFYRTCTRANSIT@RTCSNV.COM AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. NOTIFICATION OF BUS STOP CLOSURES INVOLVING REMOVAL OF EXISTING AMENITIES SHALL BE PROVIDED TO RTC TRANSIT AT LEAST 10 CALENDAR DAYS PRIOR TO THE START OF WORK.
2. THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURE SCHEDULE TO RTC TRANSIT WITH THE APPROVED TRAFFIC CONTROL PLAN AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY THE DURATION OF PROPOSED BUS STOP CLOSURES AND TEMPORARY BUS STOP RELOCATIONS AND TIMES OF DAY THAT STOPS ARE EXPECTED TO BE IMPACTED BY THE WORK. ALL BUS STOP CLOSURES, TEMPORARY BUS STOPS, AND TEMPORARY BUS TURN OUTS MUST BE APPROVED BY RTC TRANSIT STAFF PRIOR TO THE START OF WORK.

RTC FAST NOTES

1. CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT LONNIE BROWN (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-290-1979 CELL OR 702-432-5300 GENERAL.
2. IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT, SPLICED AND OR PULLED, ALONG OR ADJACENT TO THE PROJECT LIMITS, THE CONTRACTOR IS TO CONTACT MR. LONNIE BROWN TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN COORDINATION.
3. CONTRACTOR MUST NOTIFY MR. LONNIE BROWN AT 702-290-1979 CELL, 702-432-5300 GENERAL, OR AT BrownL@rtcsnv.com, ONCE ALL PROJECT ITS FIBER OPTIC WORK IS COMPLETE.

CITY OF LAS VEGAS FIRE NOTES

1. 1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6631 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. IFC § 105.6.15
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. IFC § 3310, § 3312
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. IFC § 507.5.7.3
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. IFC § 106.3
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. IFC § 507.2.1, NFPA 24
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. IFC § 507
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 507.5.7.1
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. IFC § 507
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § C102 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. IFC § C102.8
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. IFC § C102.10
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. IFC § C102.4
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. IFC § C102.7
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § C102.6
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. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. IFC § C104
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. IFC § 503.2.3
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%. IFC § 503.2.7, § 503.2.8
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. IFC § 503.2.4
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33 FT WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB. NOT LESS THAN 28 FT WIDE WITH PARKING RESTRICTED TO ONE SIDE MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE MEASURED TO FACE OF CURB. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. IFC § 503.2.1.1
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. IFC § 503.1.1
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEADENDS OR A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. CLV REGULATION AND MOU
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. CLV REGULATION
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. IFC § 503.3
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. IFC § 503.6
29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION

SOUTHWEST GAS CORPORATION GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.
   A) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES.
3. FOR VALVE ADJUSTMENT CONTACT 702-528-7855 14 DAYS PRIOR TO CONSTRUCTION.
4. FOR ADJUSTMENT OF CATHODIC PROTECTION TEST POINTS CONTACT 702-528-7873 14 DAYS PRIOR TO CONSTRUCTION.
5. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099.
6. FOR STANDBY WHEN EXCAVATING (INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE GAS LINES CONTACT 702-278-8451 48 HOURS PRIOR TO CONSTRUCTION.

CAUTION: HIGH PRESSURE GAS!!
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING (INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT # 140664

(Revised 10/18/2021)

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 AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
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 APPROVED PRODUCTS LIST (APL) FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE USA NORTH 811 "CALL 811 BEFORE YOU DIG" AT "811" OR 1-800-642-2444.
14. THE INSTALLATION OF 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 WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN 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.

15. NO LEAD COMPLIANCE NOTE:

TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

16. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS PLATES. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
17. DRY UTILITY NOTES: MAINTAIN A MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING. MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING & ENGINEERING SERVICES

PROJECT NO. 140664 FIRST APPROVED DATE ________

WATER QUANTITIES		
ITEM	PUBLIC	PRIVATE
TAPPING TEE WITH GATE VALVE	2 EA	
1" BRASS WATERLINE	5 LF	
1" COPPER WATERLINE	5 LF	
1" PVC WATERLINE		22 LF
1 1/2" PVC WATERLINE		109 LF
6" DIP WATERLINE	25 LF	
6" PVC WATERLINE		68 LF
8" PVC WATERLINE		1,406 LF
10" PVC WATERLINE	105 LF	26 LF
10" DIP WATERLINE	36 LF	
3/4" IRRIGATION METER	1 EA	
1" WATER METER	1 EA	
1" RPPA	2 EA	
10" RPDA	2 EA	
FIRE HYDRANT WITH GATE VALVE		4 EA

SEWER QUANTITIES		
ITEM	PUBLIC	PRIVATE
SADDLE CONNECTION		1 EA
WYE CONNECTION		1 EA
6" PVC SEWER LINE		167 LF
SANITARY SEWER CLEANOUT		2 EA

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REV.	DESCRIPTION	BY	DATE	APPROVAL
	REVISION			

ZENITH ENGINEERING
1980 FESTIVAL PLAZA DRIVE
SUITE 450
LAS VEGAS, NV 89135
(702) 866-9535

SKY POINTE AND FORT APACHE STORAGE
CITY OF LAS VEGAS

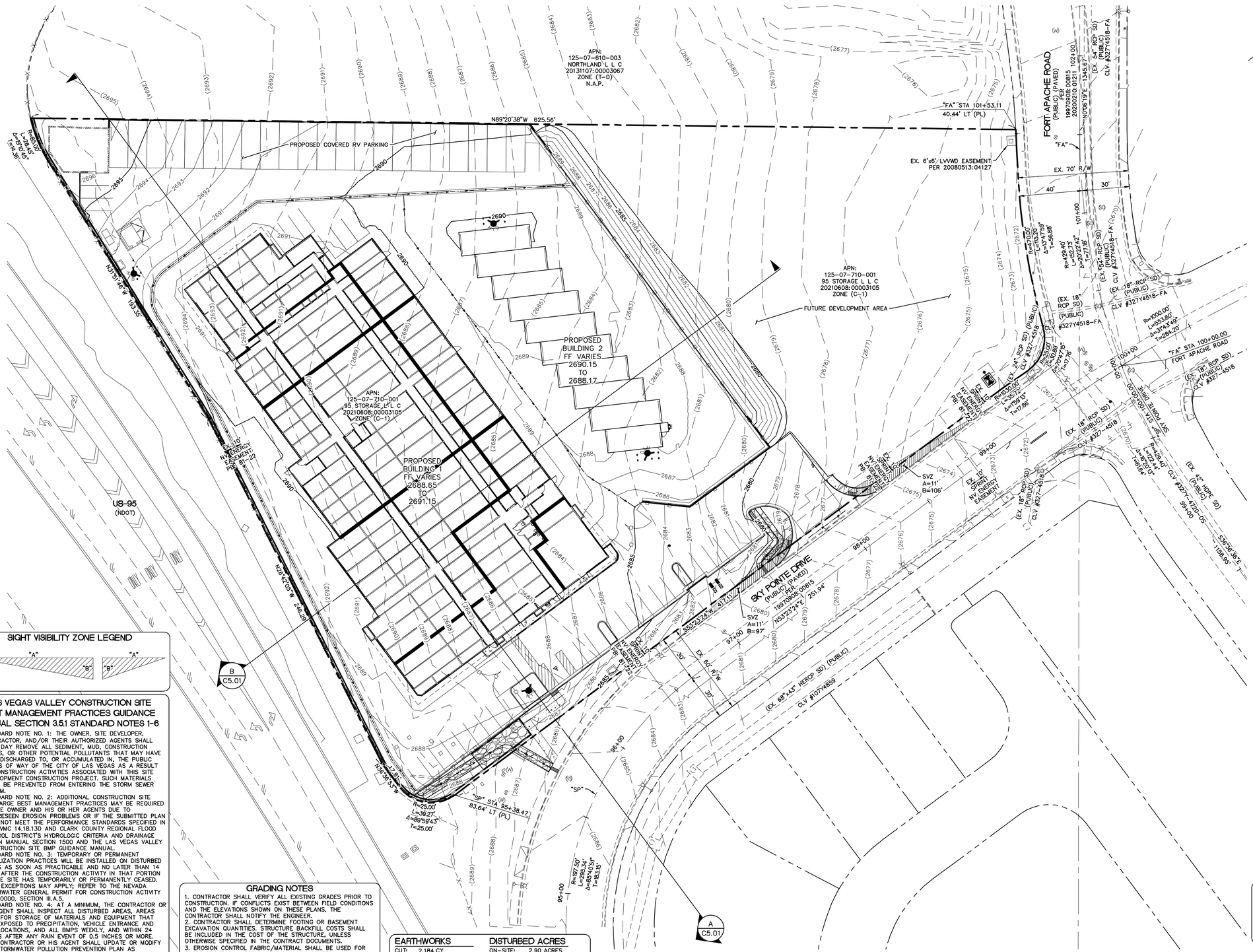
GENERAL NOTES

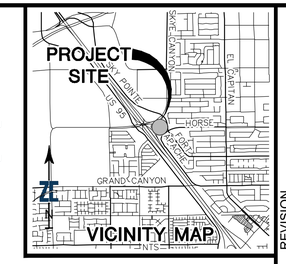
DESIGNED BY: D. JOHNSON
DRAWN BY: W. JOHNSON
CHECKED BY: J. IZZOLO
HORIZ: AS SHOWN
VERT: AS SHOWN

PROFESSIONAL ENGINEER STATE OF NEVADA
JULIA L. IZZOLO
EXP. 06-30-23
CIVIL
No. 20326
10-20-22

JOB No. 211021
DATE: OCTOBER, 2022
DRAWING No. C1.01
2/15

L22-01716 CLV DWG # 107V9693





GRAPHIC SCALE

30 0 15 30 60

HORIZONTAL: 1"= 30'

CONSTRUCTION/ROADWAY QUANTITIES	
ITEM	PUBLIC
SIDEWALK RAMP	2 EA
DRIVEWAY COMMERCIAL	857 SF
SIDEWALK 4"	102 SF
UNDER SIDEWALK DRAIN	2 EA
STREET/STOP SIGNS	1 EA

SIGHT VISIBILITY ZONE LEGEND

"A" "B" "B" "A"

LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES GUIDANCE MANUAL SECTION 3.5.1 STANDARD NOTES 1-6

1. STANDARD NOTE NO. 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 LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. STANDARD NOTE NO. 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 LVMC 14.18.13D AND CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT'S HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL SECTION 1500 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. STANDARD NOTE NO. 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. STANDARD NOTE NO. 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 WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. STANDARD NOTE NO. 5: ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER 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

GRADING NOTES

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4. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE. PONDING IS DISALLOWED. CONTRACTOR SHALL FOLLOW RECOMMENDATIONS AS OUTLINED THE THE GEOTECHNICAL REPORT FOR THIS PROJECT. REFER TO THE REPORT PREPARED BY:
GEOTEK, INC.
PROJECT No.:16391-LV
DATED:AUGUST 26, 2021

EARTHWORKS		DISTURBED ACRES	
CUT:	2,184 CY	ON-SITE:	2.90 ACRES
FILL:	9,681CY	OFF-SITE:	0.0 ACRES
NET:	7,498 CY (FILL)		

MAX 2% SW
MIN 5% LS
BUILDING FF

TYPICAL GRADING AWAY FROM BUILDING

FLOOD ZONE NOTE

THE SUBJECT PARCEL IS COVERED BY THE FLOOD INSURANCE RATE MAP (FIRM) FOR CLARK COUNTY, NEVADA AND INCORPORATED AREAS, COMMUNITY NUMBER: 325276, PANEL NUMBER: 1735E, EFFECTIVE DATE: SEPTEMBER 27, 2002. THE SUBJECT PARCEL IS LOCATED WITHIN A FEMA ZONE X (UNSHADED), DEFINED BY FEA AS, "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

ASSESSOR'S PARCEL NUMBER

125-07-710-001

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 5LV908W4
RIVET & PLATE IN TOP OF CURB AT SE CORNER HORSE DR. & FT. APACHE.

ELEVATION (METERS): 813.75
ELEVATION (FEET): 2,669.79 U.S. SURVEY FEET (NAVD 88)

BASIS OF BEARING

NORTH 53°23'24" EAST BEING THE BEARING OF THE CENTERLINE OF SKY POINTE DRIVE AS SHOWN ON SHEET 3 IN BOOK 87 OF PLATS, PAGE 22, CLARK COUNTY, NEVADA OFFICIAL RECORDS.

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GRADING PLAN CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY: D55557C ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

NAME: JULIA L. IZZOLO PE #20326 DATE 7-28-22

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Avoid injury or damage to utility lines and pipelines.
Call 811 or 1-800-642-2444

Avoid overhead power line contact, it's costly.
Call Before You Overhead 1-702-227-2929

REV.	DESCRIPTION	BY	DATE	APPROVAL
	REVISION			

ZENITH ENGINEERING
1980 FESTIVAL PLAZA DRIVE
SUITE 450
LAS VEGAS, NV 89135
(702) 866-9535

SKY POINTE AND FORT APACHE STORAGE
CITY OF LAS VEGAS

OVERALL GRADING PLAN

DESIGNED BY: J. IZZOLO
DRAWN BY: J. CABRERA
CHECKED BY: J. IZZOLO
HORIZ: AS SHOWN
VERT: AS SHOWN

PROFESSIONAL ENGINEER STATE OF NEVADA
JULIA L. IZZOLO
EXP. 06-30-23
CIVIL
No. 20326
10-20-22

JOB No. 211021
DATE: OCTOBER, 2022
DRAWING No. C2.00
3/15

L22-01716 CLV DWG # 107V9693

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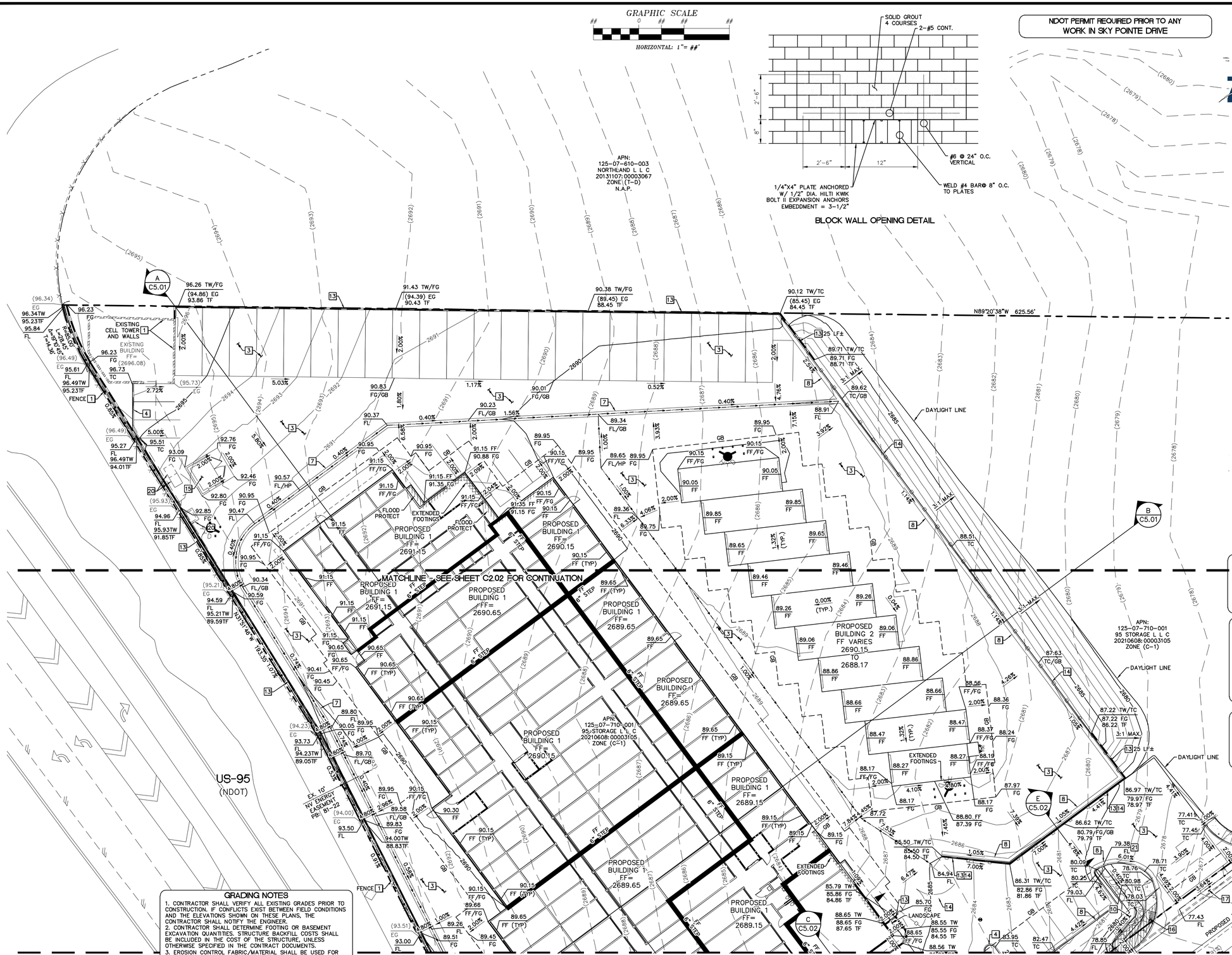

CONSTRUCTION NOTES

1	PROTECT IN PLACE.
2	DEMOLISH EXISTING FEATURE.
3	CONSTRUCT AC PAVEMENT PER DETAIL 1 ON SHEET C5.01.
4	CONSTRUCT "A" CURB PER DETAIL 2 ON SHEET C5.01.
5	0"–6" CURB FACE TRANSITION.
6	CONSTRUCT CONCRETE "U" CHANNEL PER DETAIL 3 ON SHEET C5.01.
7	CONSTRUCT 2' CONCRETE VALLEY GUTTER PER DETAIL 4 ON SHEET C5.01.
8	CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD No. 216.
9	CONSTRUCT CONCRETE SIDEWALK PER CCAUSD No. 234.
10	RIP RAP SWALE PER DETAIL 5 ON SHEET C5.01.
11	CONSTRUCT UNDER SIDEWALK DRAIN PER CCAUSD No 236.
12	CONSTRUCT 2' CURB OPENING PER DETAIL 6 ON SHEET C5.01.
13	RETAINING WALL PER PLANS BY OTHERS.
14	FENCE/GATE PER PLANS BY OTHERS.
15	TRASH ENCLOSURE BY OTHERS.
16	CONSTRUCT SIDEWALK RAMP NDOT CS–3D, SEE DETAIL 2 ON C5.03.
17	CONSTRUCT COMMERCIAL DRIVEWAY PER NDOT CS–12, SEE DETAIL 3 ON C5.03.
18	CONSTRUCT SIDEWALK PER NDOT CS–2, SEE DETAIL 1 ON C5.03.
19	INSTALL UNDER SIDEWALK DRAIN PER CCAUSD No. 236.
19	DRAINAGE SWALE PER DETAIL 1 ON SHEET C5.02.
20	ADJUST/RELOCATE EXISTING UTILITY APPURTENANCE PER PLANS BY OTHERS.
21	CONSTRUCT 4' CURB OPENING PER DETAIL 6 ON SHEET C5.01.
22	CONSTRUCT SOLID GROUT CMU WALL BY OTHERS.
23	INSTALL PEDESTRIAN BARRIER ON WALL (BY OTHERS) ADJACENT TO SIDEWALK
24	CONSTRUCT BLOCK WALL OPENING PER DETAIL ON SHEET C2.01.

GRADING PLAN CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY: D55557C ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

NAME: JULIA L. IZZOLO PE #20326 — DATE: 7-28-22

EARTHWORKS

CUT: 2,184 CY
FILL: 9,681CY
NET: 7,498 CY (FILL)

DISTURBED ACRES

ON-SITE: 2.90 ACRES
OFF-SITE: 0.0 ACRES

MAX 2% SW
MIN 5% LS
BUILDING FF

TYPICAL GRADING AWAY FROM BUILDING

SIGHT VISIBILITY ZONE LEGEND

"A" "B" "B" "A"

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GEOTEK, INC.
PROJECT No.:16391-LV
DATED:AUGUST 26, 2021

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PCBMP NOTE

POST-CONSTRUCTION BMPs (PCBMPs) / CONTROL MEASURES NOTED ON THE GRADING PLANS ARE MANDATORY PERMANENT REGULATORY STORMWATER POLLUTION CONTROLS. THESE PCBMPs MUST BE INSTALLED PER THE APPROVED PLANS AND MUST BE PERMANENTLY MAINTAINED.

ASSESSOR'S PARCEL NUMBER

125-07-710-001

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CITY OF LAS VEGAS BENCHMARK 5LV908W4
RIVET & PLATE IN TOP OF CURB AT SE CORNER HORSE DR. & FT. APACHE.

ELEVATION (METERS): 813.75
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NORTH 53°23'24" EAST BEING THE BEARING OF THE CENTERLINE OF SKY POINTE DRIVE AS SHOWN ON SHEET 3 IN BOOK 87 OF PLATS, PAGE 22, CLARK COUNTY, NEVADA OFFICIAL RECORDS.

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REV.	DESCRIPTION	BY	DATE	APPROVAL

REVISION

ZENITH ENGINEERING
1980 FESTIVAL PLAZA DRIVE
SUITE 450
LAS VEGAS, NV 89135
(702) 866-9535

SKY POINTE AND FORT APACHE STORAGE
CITY OF LAS VEGAS

GRADING PLAN 1

DESIGNED BY: J. BRUNSON
DRAWN BY: J. CABRERA
CHECKED BY: J. IZZOLO
HORIZ: AS SHOWN
VERT: AS SHOWN

PROFESSIONAL ENGINEER — STATE OF NEVADA
JULIA L. IZZOLO
EXP. 06-30-23
CIVIL
No. 20326
10-20-22

JOB No. 211021
DATE: OCTOBER, 2022
DRAWING No. C2.01
4/15

L22-01716 CLV DWG # 107V9693

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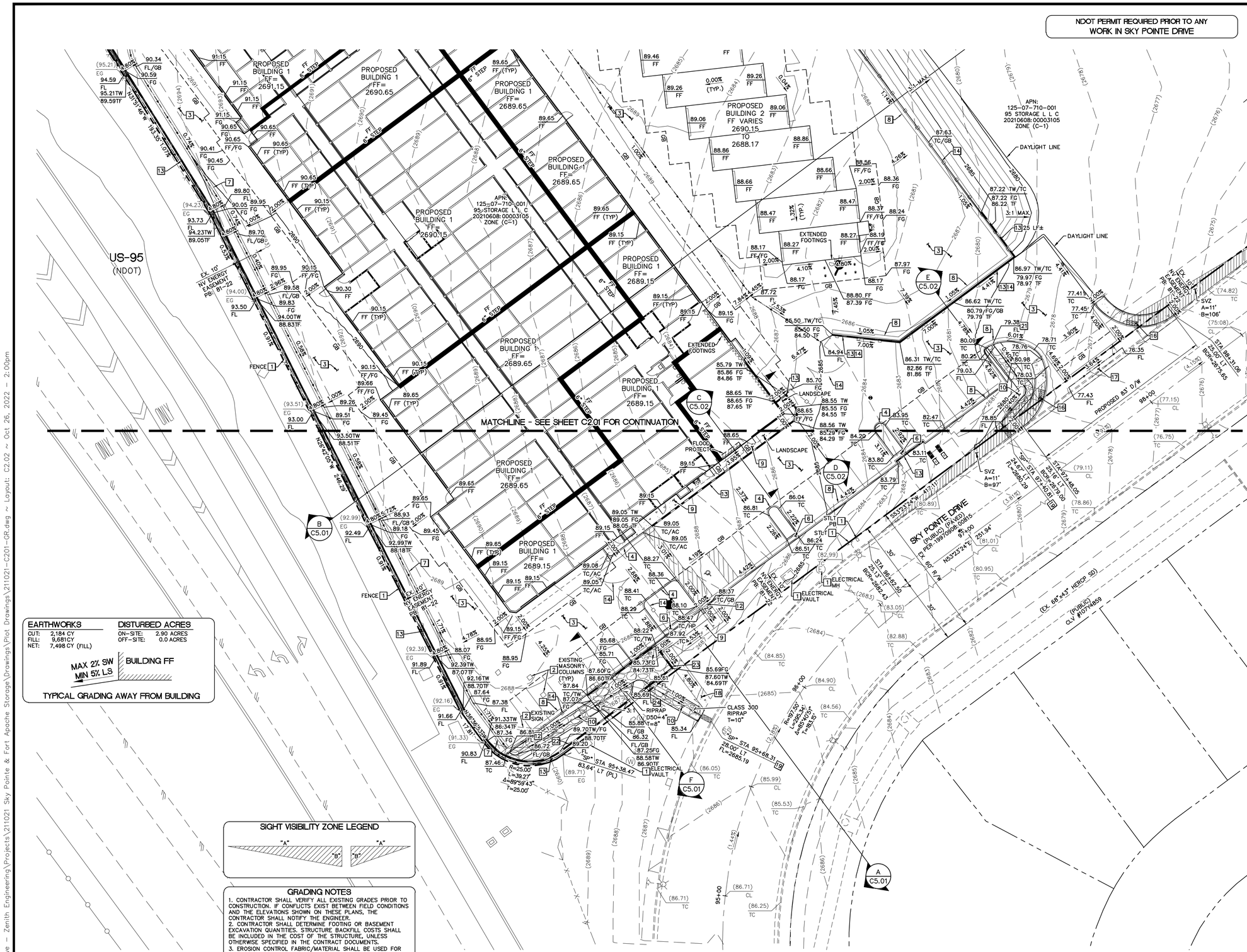

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PROJECT No.:16391-LV
DATED:AUGUST 26, 2021

GRAPHIC SCALE
20 0 10 20 40
HORIZONTAL: 1"= 20'

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20	ADJUST/RELOCATE EXISTING UTILITY APPURTENANCE PER PLANS BY OTHERS.
21	CONSTRUCT 4' CURB OPENING PER DETAIL 6 ON SHEET C5.01.
22	CONSTRUCT SOLID GROUT CMU WALL BY OTHERS.
23	INSTALL PEDESTRIAN BARRIER ON WALL (BY OTHERS) ADJACENT TO SIDEWALK
24	CONSTRUCT BLOCK WALL OPENING PER DETAIL ON SHEET C2.01.

GRADING PLAN CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY: D55557C ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.

NAME: JULIA L. IZZOLO PE #20326 — DATE: 7-28-22

REV.	DESCRIPTION	BY	DATE	APPROVAL
	REVISION			

ZENITH ENGINEERING
1980 FESTIVAL PLAZA DRIVE
SUITE 450
LAS VEGAS, NV 89135
(702) 866-9535

SKY POINTE AND FORT APACHE STORAGE
CITY OF LAS VEGAS

GRADING PLAN 2

DESIGNED BY: M. VAN BRON
DRAWN BY: J. CABRERA
CHECKED BY: J. IZZOLO
HORIZ: AS SHOWN
VERT: AS SHOWN

PROFESSIONAL ENGINEER — STATE OF NEVADA — JULIA L. IZZOLO — EXP. 06-30-23 — CIVIL — No. 20326
10-20-22

JOB No.: 211021
DATE: OCTOBER, 2022

DRAWING No. C2.02
5/15

L22-01716 CLV DWG # 107V9693

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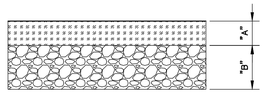
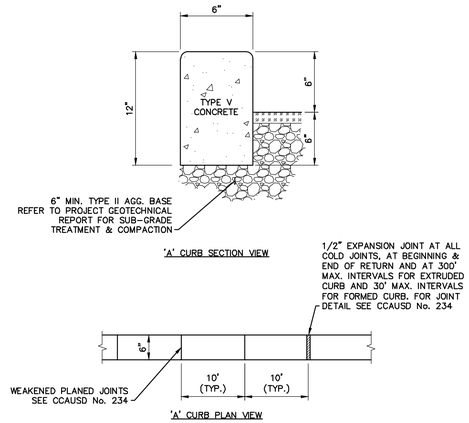


TYPE OF TRAFFIC	"A" ASPHALT	"B" BASE COURSE
AUTOMOBILE PARKING	2"	3"
MAIN CORRIDORS AND TRUCK ACCESS	4"	4"

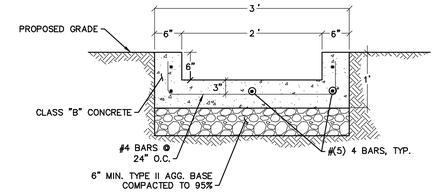
NOTES:

1. PAVEMENT SECTION AS PROPOSED IN GEOTECHNICAL REPORT PREPARED BY: GEOTEK, INC., PROJECT No. 16391-LV, DATED AUGUST 26, 2021.
2. REFER TO PROJECT GEOTECHNICAL REPORT FOR ALL SUB-GRADE PREPARATION & COMPACTION.
3. ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT, PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.

1 AC PAVEMENT DETAIL NTS



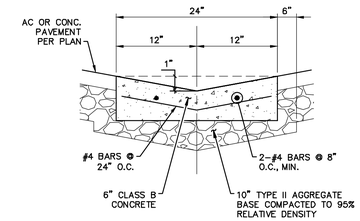
2 "A" CURB DETAIL NTS



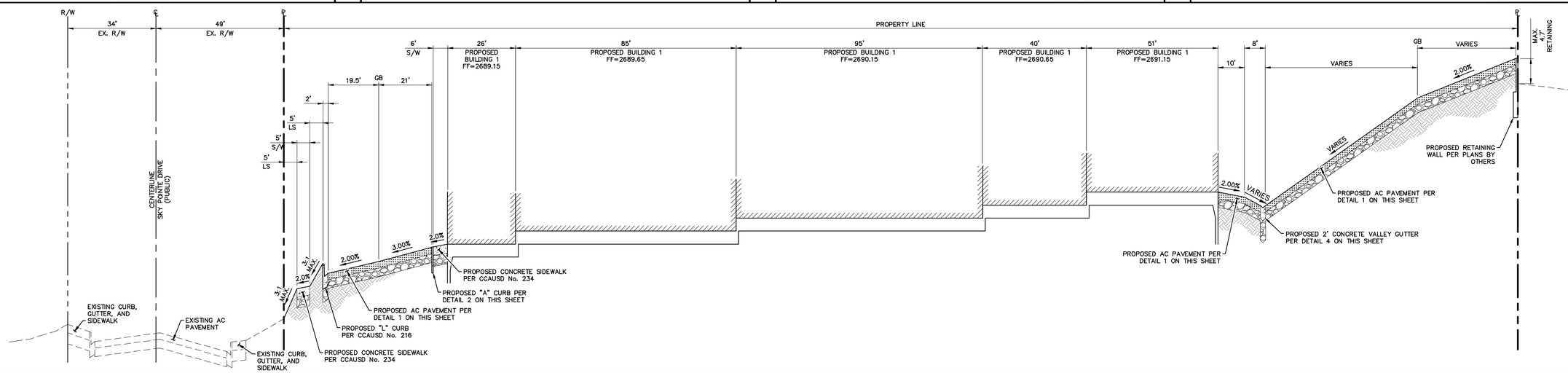
NOTES:

1. REFER TO PROJECT GEOTECHNICAL REPORT FOR ALL SUB-GRADE PREPARATION & COMPACTION.
2. ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT.
3. EXPANSION JOINTS REQUIRED AT ALL LOCATIONS WHERE CHANNEL MEETS CURB.
4. WEAKENED PLANE JOINTS REQUIRED AT 10' MAX SPACING.

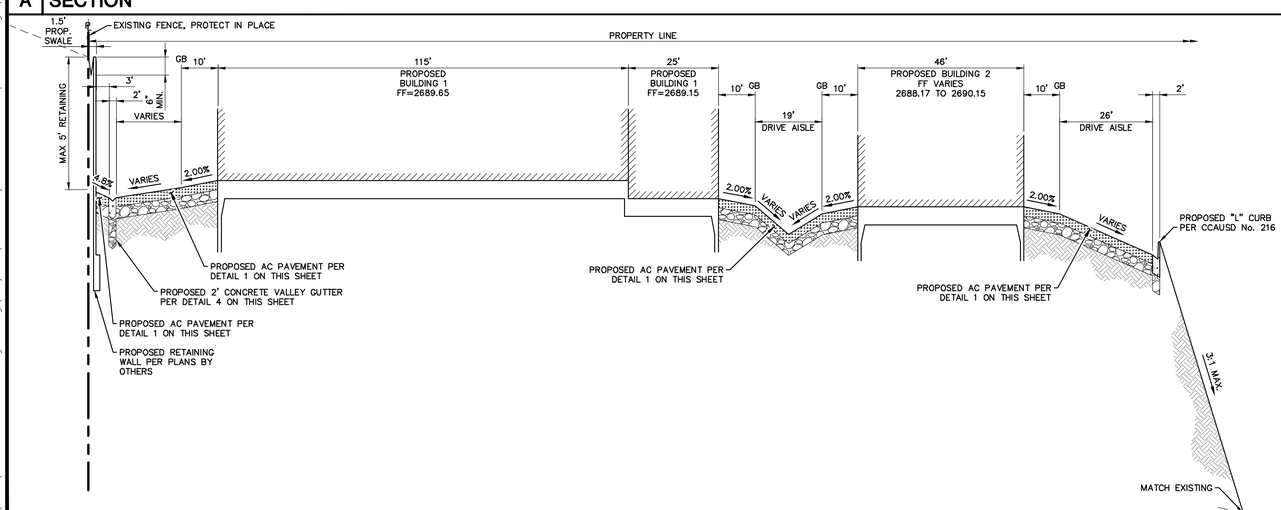
3 CONCRETE "U" CHANNEL DETAIL NTS



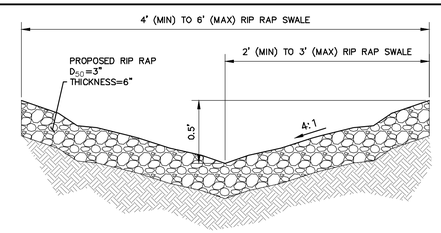
4 2' CONCRETE VALLEY GUTTER DETAIL NTS



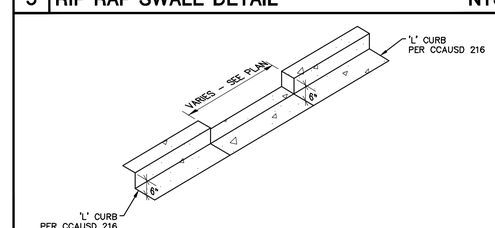
A SECTION NTS



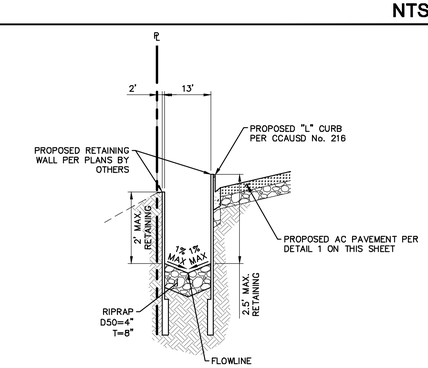
B SECTION NTS



5 RIP RAP SWALE DETAIL NTS



6 CURB CUT DETAIL NTS



F DRAINAGE SECTION NTS

Call before you Dig
Avoid injury or disruption of underground utilities.
Call 811 or 1-800-642-2444

Avoid overhead power line contact. It's costly.
Call Before You Overhead 1-702-227-2929

REV.	DESCRIPTION	BY	DATE	APPROVAL
	REVISION			

ZENITH ENGINEERING
1980 FESTIVAL PLAZA DRIVE
SUITE 450
LAS VEGAS, NV 89135
(702) 866-9535

SKY POINTE AND FORT APACHE STORAGE
CITY OF LAS VEGAS

DETAIL SHEET 1

DESIGNED BY: W. JOHNSON
DRAWN BY: W. JOHNSON
CHECKED BY: J. IZZOLO
HORIZ: AS SHOWN
VERT: AS SHOWN

PROFESSIONAL ENGINEER — STATE OF NEVADA
JULIA L. IZZOLO
EXP. 06-30-23
CIVIL
No. 20326
10-20-22

JOB No. 211021
DATE: OCTOBER, 2022
DRAWING No. C5.01
13/15

L22-01716 CLV DWG # 107V9693

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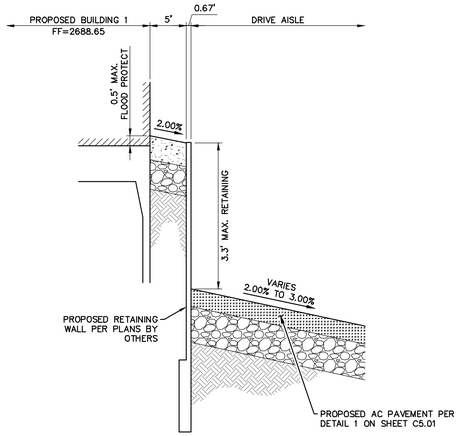
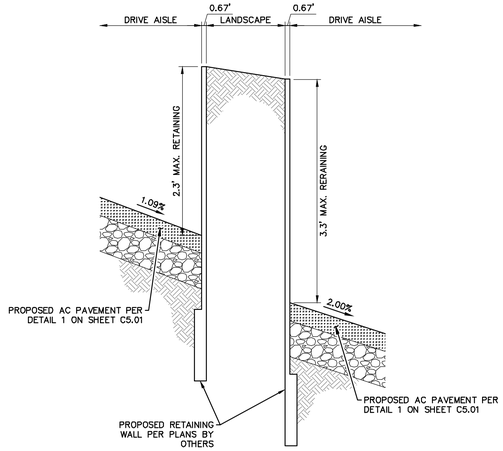
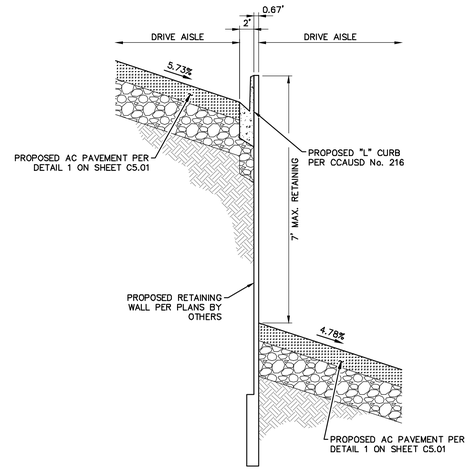


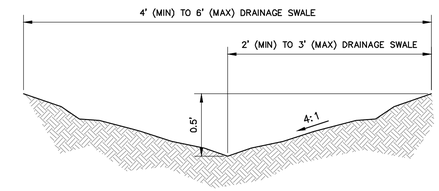
C SECTION NTS



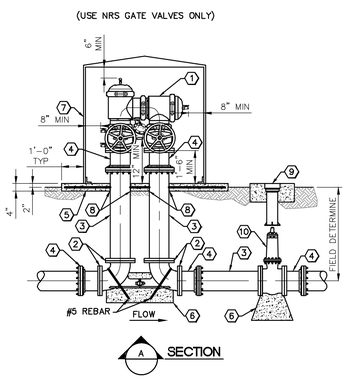
D SECTION NTS

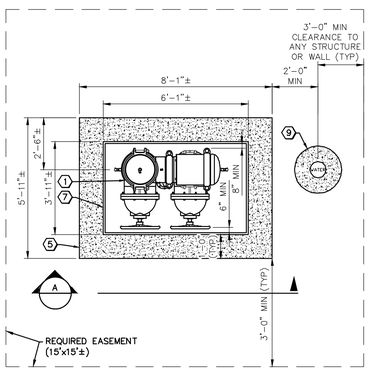


E SECTION NTS



1 DRAINAGE DETAIL NTS





MATERIAL LIST	
1	10" WILKINS 475ST REDUCED PRESSURE PRINCIPLE (RPPA) BACKFLOW ASSEMBLY OR APPROVED EQUAL (NOTE 2)
2	PIPE SETTER, 90° FLG BEND
3	10" FLG x PE DUCTILE IRON PIPE, PC 350 (CUT TO FIT)
4	10" ADAPTER FLANGE (RESTRAINED)
5	CONCRETE SLAB (4" THK) WITH WELDED WIRE FABRIC, 4 x 4 – W1.4 x W1.4
6	CONCRETE THRUST/ANCHOR BLOCK
7	APPROVED ENCLOSURE (CONTRACTOR TO SUBMIT SHOP DRAWINGS)
8	1/2" EXPANSION JOINT MATERIAL
9	VALVE BOX AND COLLAR (NOTE 1)
10	10" FLG GATE VALVE

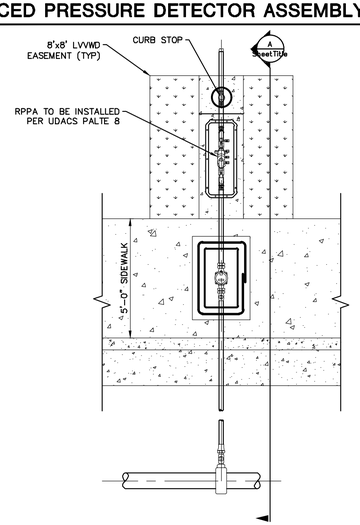
NOTES:

1. CONTRACTOR TO INSTALL VALVE LOCK DEVICE WITH DISTRICT PROVIDED LOCK (AS REQUIRED).

2. APPROVED EQUAL MATERIALS CAN BE FOUND ON THE LVVWD APPROVED PRODUCTS LIST.

3. 12" MIN CLEARANCE IS REQUIRED FROM THE RELIEF VALVE TO ASSEMBLY PAD. ASSEMBLY PAD FINISHED GRADE MUST BE AT OR ABOVE HIGH-WATER LEVEL OF SURROUNDING AREA.

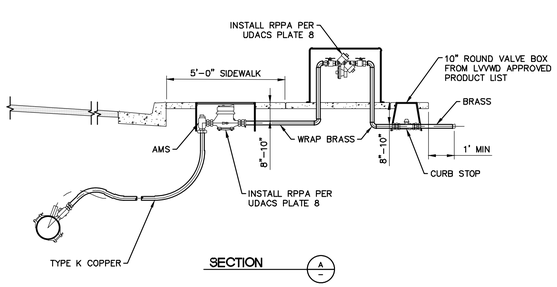
1 10" REDUCED PRESSURE DETECTOR ASSEMBLY NTS



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING & ENGINEERING SERVICES

PROJECT NO. 140664 FIRST APPROVED DATE _____

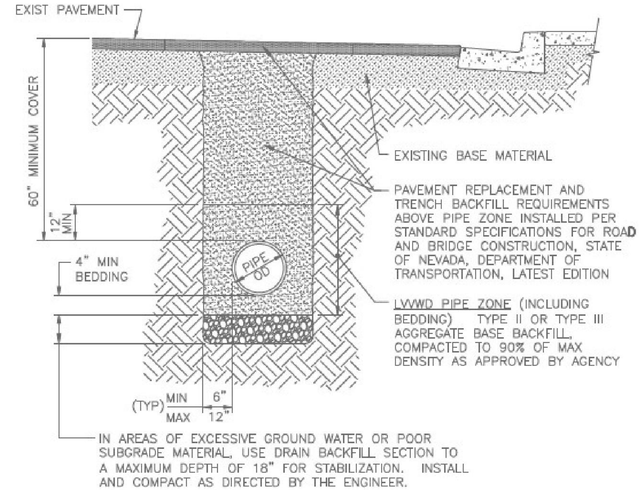


2 WATER METER AND RPPA NTS

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services

Project No: 140664 First Approved Date: _____



NOT TO SCALE

NOTE:
FOR TRENCH SECTION NOTES SEE UDACS PLATE 19.

TRENCH SECTION BACKFILL SPECIFICATIONS
(FOR LVVWD WATER FACILITIES)
IMPROVED AND UNIMPROVED AREAS
(NDOT STREET R/W)

3 TRENCH DETAIL NTS

Call before you Dig
Avoid costly underground utility strikes, it's costly.
Call 811 or 1-800-642-2444

Avoid overhead power line contact, it's costly.
Call Before You Overhead
1-702-227-2929

REV.	DESCRIPTION	BY	DATE	APPROVAL
	REVISION			

ZENITH ENGINEERING
1980 FESTIVAL PLAZA DRIVE
SUITE 450
LAS VEGAS, NV 89135
(702) 866-9535

SKY POINTE AND FORT APACHE STORAGE
CITY OF LAS VEGAS

DETAIL SHEET 2

DESIGNED BY: J. IZZOLO
DRAWN BY: J. IZZOLO
CHECKED BY: J. IZZOLO
HORIZ: AS SHOWN
VERT: AS SHOWN

PROFESSIONAL ENGINEER STATE OF NEVADA
JULIA L. IZZOLO
EXP. 06-30-23
CIVIL
No. 20325
10-20-22

JOB No. 211021
DATE: OCTOBER, 2022
DRAWING No. C5.02
14/15

L22-01716 CLV DWG # 107V9693

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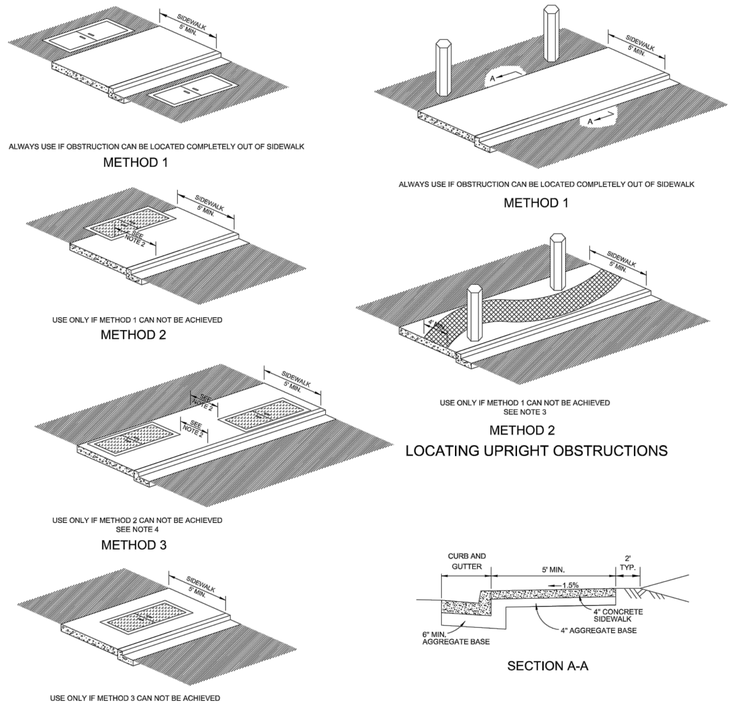


NOTES:

1. Concrete shall be class A or AA.
2. Locate flat obstructions to maintain a 4-foot minimum pedestrian access route. If a 4-foot pedestrian access route can not be maintained, use skid resistant covers.
3. Locate upright obstructions to maintain a 4-foot minimum pedestrian access route.
4. If locating flat obstructions per Method 3 and the sidewalk has a buffer zone, then locate the obstructions in the buffer zone.
5. Upright obstructions are not allowed in new sidewalks.
6. If flat obstructions are located within a crosswalk, use slip resistant covers.
7. Dowel two No. 4 tie bars into existing concrete centered vertically, and spaced 1-foot in from each edge at interface between new and existing sidewalk.

LEGEND:

- FLAT OBSTRUCTION SLIP RESISTANT COVER OPTIONAL
- FLAT OBSTRUCTION SLIP RESISTANT COVER REQUIRED
- UPRIGHT OBSTRUCTIONS I.E. UTILITY POLES, SIGN SUPPORTS, FIRE HYDRANT, SIGNAL CABINETS, BUS STOPS, LIGHT POLES, ETC.
- PEDESTRIAN ACCESS ROUTE

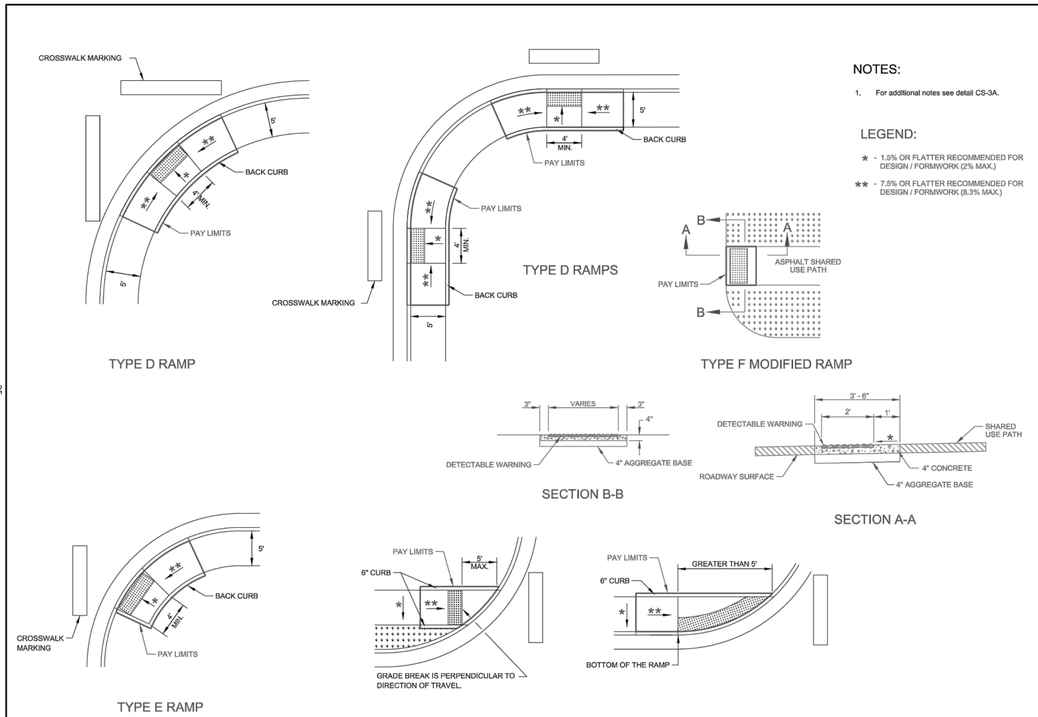
NEVADA DEPARTMENT OF TRANSPORTATION | CHIEF ROAD DESIGN ENGR. SIGNED ORIGINAL ON FILE | ADOPTED 5/2009 | REVISED 10/2015

SIDEWALKS

SPEC. # 613 | DETAIL NUMBER CS-2

91

1 NDOT SIDEWALK DETAIL - CS-2 NTS



NOTES:

1. For additional notes see detail CS-3A.

LEGEND:

★ - 1.5% OR FLATTER RECOMMENDED FOR DESIGN / FORMWORK (2% MAX.)

★★ - 7.5% OR FLATTER RECOMMENDED FOR DESIGN / FORMWORK (8.3% MAX.)

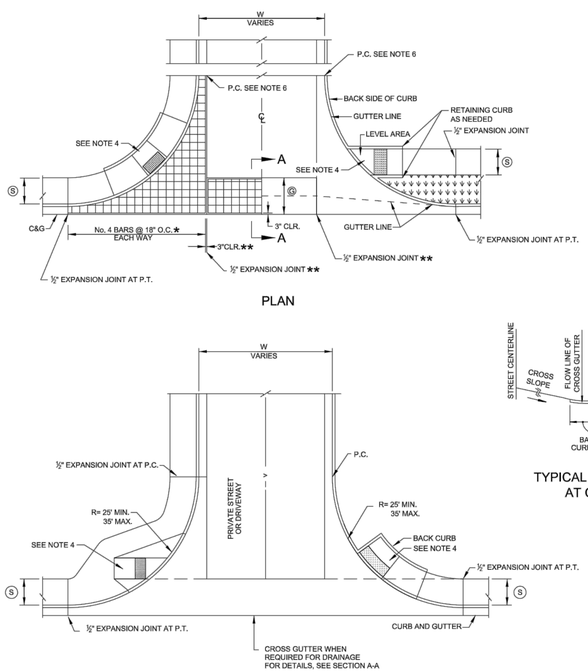
NEVADA DEPARTMENT OF TRANSPORTATION | CHIEF ROAD DESIGN ENGR. SIGNED ORIGINAL ON FILE | ADOPTED 7/1996 | REVISED 10/2015

CURB RAMPS

SPEC. # 613 | DETAIL NUMBER CS-3D

95

2 NDOT CURB RAMP DETAIL - CS-3D NTS



NOTES:

1. Spacing of No. 4 bars less than 18-inches to meet local codes shall be noted in the structure list.
2. When constructing driveways where curb and gutter exists, completely remove existing sections. Driveway may be poured monolithic to A.C. line, in which case the bars shall be continuous. If optional sectional pour is used, expansion joints and rebar end clearance shall apply as shown.
3. Concrete shall be class A or AA.
4. Curb ramps shall be constructed in accordance with details CS-3A to CS-3D.
5. For grade changes greater than 3%, vertical curves of at least 10-feet must be used.
6. Driveway geometrics shall go to the P.C.
7. For actual dimensions, see structure list.

LEGEND:

★ - SEE NOTE 1

★★ - SEE NOTE 2 FOR OPTIONAL SECTIONAL POUR

- DETECTABLE WARNINGS

DIMENSION LIMITS, SEE NOTE 7
W= 12' MINIMUM FOR ONE-WAY DRIVEWAYS 24' MINIMUM FOR TWO-WAY DRIVEWAYS 40' MAXIMUM
Ⓢ = WIDTH OF SIDEWALK - 4 FOOT MINIMUM
Ⓖ = WIDTH OF VALLEY GUTTER FROM EDGE OF GUTTER TO BACK OF SIDEWALK

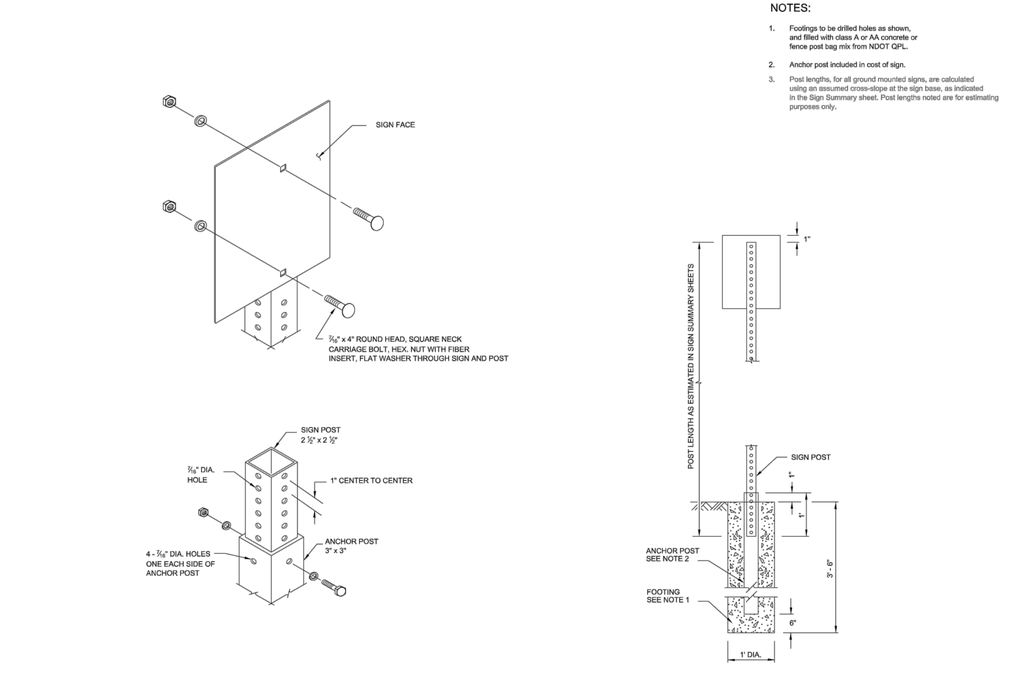
NEVADA DEPARTMENT OF TRANSPORTATION | CHIEF ROAD DESIGN ENGR. SIGNED ORIGINAL ON FILE | ADOPTED 7/1996 | REVISED 10/2015

MULTI - FAMILY, COMMERCIAL AND INDUSTRIAL DRIVEWAY DETAILS

SPEC. # 613 | DETAIL NUMBER CS-12

106

3 NDOT DRIVEWAY DETAIL - CS-12 NTS



NOTES:

1. Footings to be drilled holes as shown, and filled with class A or AA concrete or fence post bag mix from NDOT QPL.
2. Anchor post included in cost of sign.
3. Post lengths, for all ground mounted signs, are calculated using an assumed cross-slope at the sign base, as indicated in the Sign Summary sheet. Post lengths noted are for estimating purposes only.

NEVADA DEPARTMENT OF TRANSPORTATION | CHIEF TRAFFIC OPS ENGR. SIGNED ORIGINAL ON FILE | ADOPTED 8/1998 | REVISED 10/2015

ROADSIDE SIGNS SQUARE METAL POSTS

SPEC. # 627 | DETAIL NUMBER TRS-11

281

4 NDOT SIGN POST DETAIL - TRS-11 NTS

REV.	DESCRIPTION	BY	DATE	APPROVAL
	REVISION			

ZENITH ENGINEERING
1980 FESTIVAL PLAZA DRIVE
SUITE 450
LAS VEGAS, NV 89135
(702) 866-9535

SKY POINTE AND FORT APACHE STORAGE

CITY OF LAS VEGAS

DETAIL SHEET 3

DESIGNED BY: J. IZZOLO
DRAWN BY: J. IZZOLO
CHECKED BY: J. IZZOLO
HORIZ: AS SHOWN
VERT: AS SHOWN

PROFESSIONAL ENGINEER STATE OF NEVADA
JULIA L IZZOLO
EXP. 06-30-23
CIVIL
No. 20326
10-20-22

JOB No. 211021
DATE: OCTOBER, 2022
DRAWING No. C5.03
15/15

L22-01716 CLV DWG # 107V9693

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