

PLUMBING CALCULATIONS AND SCHEDULES

PLUMBING FIXTURE SPECIFICATION
(SEE ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATION OF ALL PLUMBING FIXTURES)
DESCRIPTION
WATER CLOSET (MARK WC=1): ACORN PENAL-WARE SERIES 1680-W-1 SIPHON JET TOILET, OFF FLOOR, WITH ELONGATED BOWL, 1.6 GPF. FIXTURE SHALL BE TYPE 304 STAINLESS STEEL, 14 GAUGE, WITH WALL SLEEVE TO FIT THROUGH 8" CMU WALL AND WITH CONCEALED SLOAN ROYAL FLUSH VALVE MODEL 601-1.6, WITH NON-HOLD-OPEN PUSH BUTTON TO FIT THROUGH 8" CMU WALL, ALSO PROVIDE METAL TEMPLATE (ONLY ONE REQUIRED FOR THIS PROJECT). PROVIDE WITH SOLID WHITE PLASTIC HINGED SEAT, OPEN FRONT, LESS COVER. SHALL BE MOUNTED AT ADA COMPLIANT HEIGHT.
WATER CLOSET (MARK WC=2): ACORN PENAL-WARE SERIES 1680-W-1 SIPHON JET TOILET, OFF FLOOR, WITH ELONGATED BOWL, 1.6 GPF. FIXTURE SHALL BE TYPE 304 STAINLESS STEEL, 14 GAUGE, WITH WALL SLEEVE TO FIT THROUGH 8" CMU WALL AND WITH CONCEALED SLOAN ROYAL FLUSH VALVE MODEL 601-1.6, WITH NON-HOLD-OPEN PUSH BUTTON TO FIT THROUGH 8" CMU WALL, ALSO PROVIDE METAL TEMPLATE (ONLY ONE REQUIRED FOR THIS PROJECT). PROVIDE WITH SOLID WHITE PLASTIC HINGED SEAT, OPEN FRONT, LESS COVER.
URINAL (MARK U=1): ACORN PENAL-WARE SERIES 1707-W-1 STRADDLE-WASHOUT URINAL FIXTURE SHALL BE 304 STAINLESS STEEL, 14 GAUGE, 3/4" BACK CONNECTION, WITH WALL SLEEVE TO FIT THROUGH 8" CMU WALL AND WITH CONCEALED SLOAN ROYAL FLUSH VALVE MODEL 603-1, WITH NON-HOLD-OPEN PUSH BUTTON TO FIT THROUGH 8" CMU WALL, ALSO PROVIDE METAL TEMPLATE (ONLY ONE REQUIRED FOR THIS PROJECT). SHALL BE MOUNTED AT ADA COMPLIANT HEIGHT.
LAVATORY (MARK L=1): ACORN, 1652-3 SERIES, WALL MOUNTED, 14 GAUGE, 304 STAINLESS STEEL, SEAMLESS WELDED CONSTRUCTION WITH REMOVABLE BOTTOM, SECURED WITH TAMPER RESISTANT SCREWS. 14"x12"x4½" DEEP BASIN INCLUDES INTEGRAL FAST DRAIN, STANDARD P-TRAP WASTE OUTLET 1½", WITH A METERING PUSH BUTTON, AIR CONTROL SINGLE TEMPERATURE VALVE. PROVIDE WITH MOUNTING HARDWARE. ADA COMPLIANT.
*HOSE BIBB (MARK HB=1): ACORN NO. "8151", STAINLESS STEEL RECESSED BOX WITH COVER AND LOCK. SINGLE TEMP., ¾"HOSE, THREADED VACUUM BREAKER.
FLOOR DRAIN (MARK ED=1): J.R. SMITH FIG. NO. "2005-YA", 2"NHYCAST IRON DRAIN, FLASHING COLLAR WITH 5" NICKEL-BRONZE TOP (FIG. "2005-YA", CAST IRON DRAIN WITH 5" GRATE IN TOILET ROOMS) WITH TRAP PRIMER CONNECTIONS.

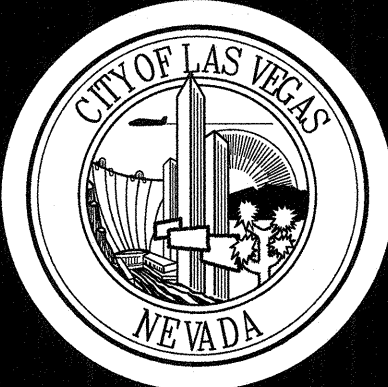
PLUMBING FIXTURE SCHEDULE											
MARK	DESCRIPTION	F.U.		MIN. BRANCH SIZE (INCH)				TRAP SIZE (INCH)			REMARKS
		W	CW	W	V	CW	HW	TW			
WC-1	WATER CLOSET	6	8	4	2	1½	-	-	INTEGRAL		WALL HUNG, S.S., FLUSH VALVE, 1.6 GPF. ADA
WC-2	WATER CLOSET	6	8	4	2	1½	-	-	INTEGRAL		WALL HUNG, S.S., FLUSH VALVE, 1.6 GPF.
U-1	URINAL	6	6	2	1½	1½	-	-	INTEGRAL		WALL HUNG, FLUSH VALVE, 1.6 GPF. ADA
L-1	LAVATORY	2	2	2	1½	¾	-	-	1¼ X 1½		WALL HUNG, S.S. ADA.
HB-1	HOSE BIBB	-	5	-	¾	-	-	-	-		WALL MOUNT, EXTERIOR RECESSED, W/ VACUUM BREAKER.
FD-1	FLOOR DRAIN	2	-	2	1½	-	-	-	2		-

UTILITY SCHEDULE										
WATER	BUILDING (SERVICE LOCATION)	FIXTURE UNITS	FIXTURE UNITS (FUT.)	GPM	MAKE-UP (GPM)		TOTAL (GPM)	PRESSURE (PSIG)	METER SIZE (IN.)	REMARKS
					HVAC	MISC.				
	RESTROOM	46	N/A	50	—	N/A	50	*	*	* SEE CIVIL DRAWINGS
—	—	—	—	—	—	—	—	—	—	—
SEWER	BUILDING (SERVICE LOCATION)	WASTE (F.U.)	MISC. (F.U.)	WASTE (FUT.)	TOTAL (F.U.)	BUILDING SEWER (INCH)	ON-SITE SEWER (INCH)	PUBLIC SEWER (INCH)	REMARKS	
	RESTROOM	62	—	N/A	62	4	*	*	* SEE CIVIL DRAWINGS	
—	—	—	—	—	—	—	—	—	—	—
GAS (CFH) INPUT CAPACITY	GAS SERVICE AREA	HVAC-AC UNIT USE			DOMESTIC WATER HEATING		STAND BY/ FUTURE USE	FOOD SERVICE EQUIPMENT	UNIT HEATERS	TOTAL (CFH) (SEE NOTES)
					120°F	140°F				
	—	—	N/A			N/A	N/A	N/A	N/A	N/A
STORM DRAINAGE	SEE ARCHITECTURAL DRAWINGS.									

EQUIPMENT SCHEDULE					
SYMBOL	DESCRIPTION	SERVICE	LOCATION	MANUFACTURER & MODEL NO.	REMARKS
	WATER HAMMER ARRESTOR	DOMESTIC COLD WATER	SEE PLANS	SEE REMARKS	JAY R. SMITH #5005-¾", "A" FOR 1-11 FIXTURE UNITS. JAY R. SMITH #5010-1", "B" FOR 12-32 FIXTURE UNITS JAY R. SMITH #5020-1", "C" FOR 33-60 FIXTURE UNITS.
	TRAP PRIMER ARRESTOR	FLOOR DRAINS	SEE PLANS	PPP PRIMETIME ELECTRONIC	PPP PRIMETIME ELECTRONIC TRAP PRIMER, MANIFOLD SURFACE MOUNT, "PT-4". REFER TO DRAWINGS FOR LOCATIONS AND NUMBER OF OPENINGS ON MANIFOLD. PROVIDE 120V POWER.

COLD/HOT WATER PIPE SIZING TABLE					
(A)	MIN. DESIGN PRESSURE: (DESIGN BASE, PSIG)			30	
(B)	MAXIMUM EQUIVALENT PIPE RUN: (FT)			100	
(D)	WATER DEMAND	1. DOMESTIC IRRIGATION NIGHT USE ONLY		50	GPM
		2. A/C EQUIPMENT		-	GPM
		3. POOL MAKE UP/EQUIPMENT		N/A	GPM
		4. MISC.		5	GPM
		5. TOTAL		55	GPM
PIPE SIZES BASED ON "L" COPPER, @ 3.0 PSI/100FT., 6 FPS MAXIMUM (MAXIMUM PIPE RUN INSIDE BUILDING "TDL" = 100FT)					
FIXTURE UNITS		FIXTURE UNITS			
	FT.	FT.		FT.	FT.
½"	= 1	N/A	2"	= 171	74 (59 GPM)
¾"	= 5	N/A	2½"	= 401	263 (100 GPM)
1"	= 13	N/A			
1¼"	= 25	N/A			
1½"	= 47	10			

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SEP 19 2017 JBP
CITY OF LAS VEGAS
BUILDING AND SAFETY



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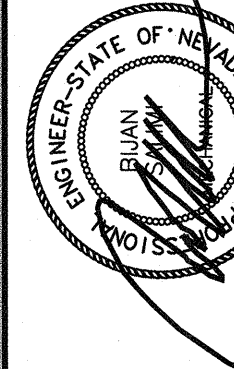


Sigma Mechanical Engineering Consultants

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Las Vegas, NV 89119 (702) 315-4272

BOB BASKIN PARK
RENOVATION
PLUMBING CALCULATION AND SCHEDULES

STAMP



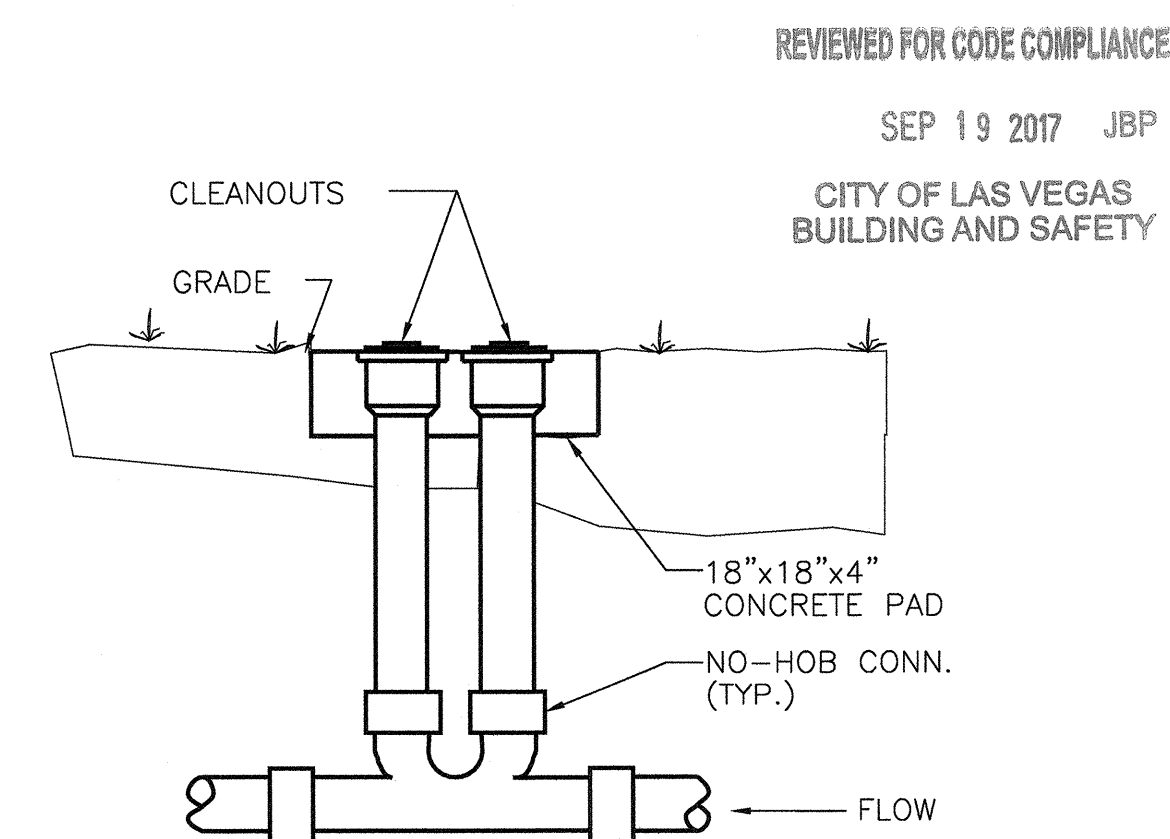
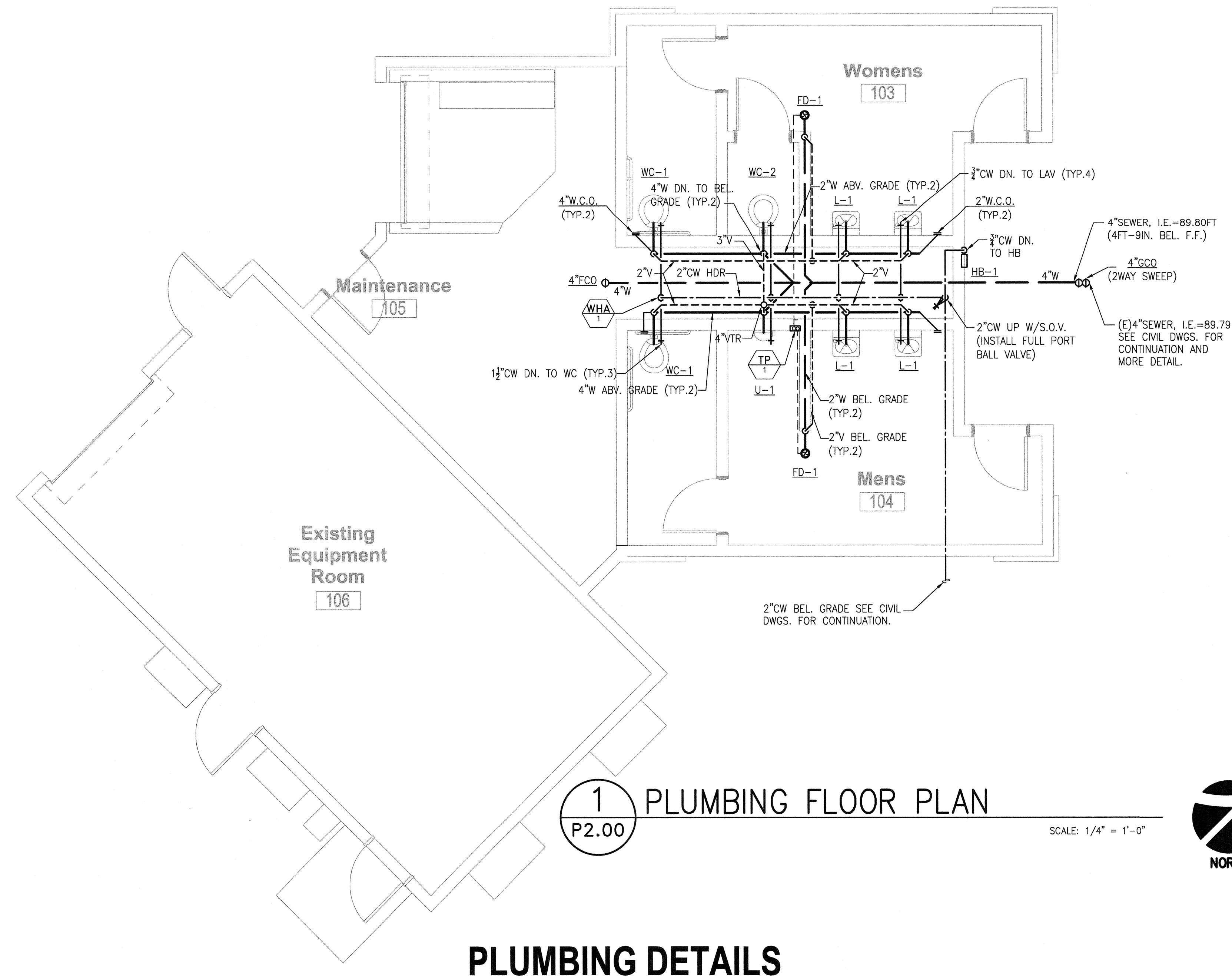
DATE: 09/08/17
EXP. DATE: 06/30/18

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LAS VEGAS, NEVADA 89106
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FAX: (702) 384-4846

DRAWN	SIGMA
FILE	180101443
DATE	9-7-17
SCALE	SEE PLAN
BID NO	17.54875.JH
CLV DWG NO	650.27-6

SHT NO
P1.00



D NOT USED
P2.00 DETAIL N.T.S.

C NOT USED
P2.00 DETAIL N.T.S.

B NOT USED
P2.00 DETAIL N.T.S.

A 2-WAY SURFACE CLEANOUT
P2.00 DETAIL N.T.S.

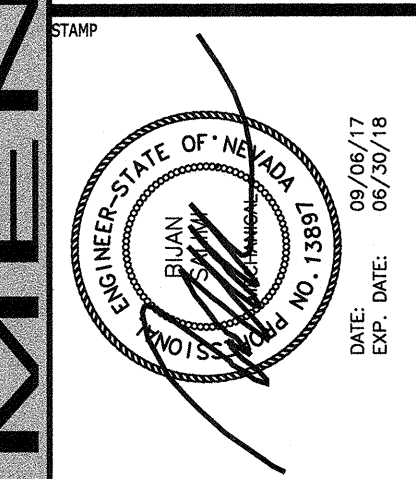


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RENOVATION
PLUMBING FLOOR PLAN AND DETAIL

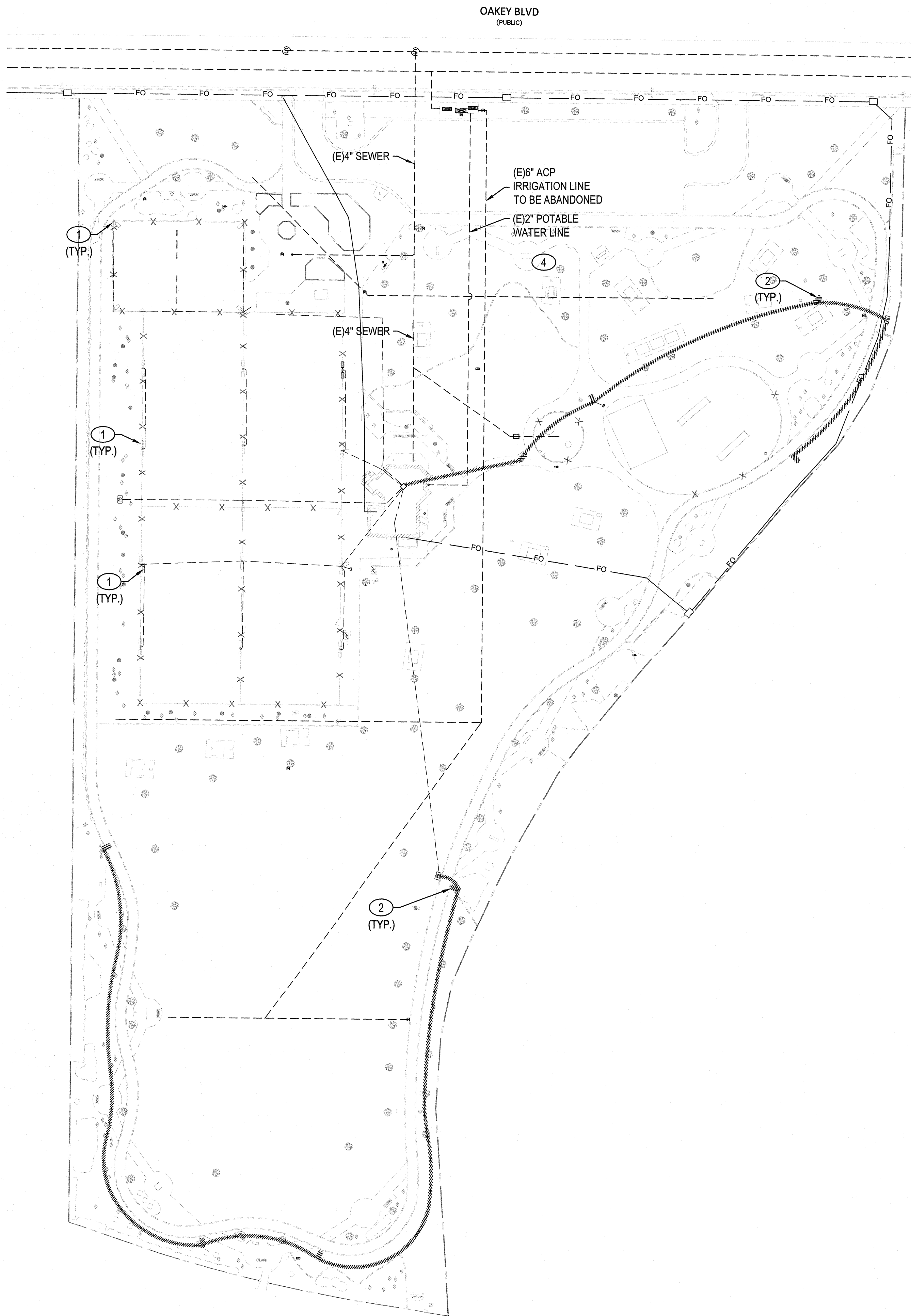


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CLV DWG NO: 650.27-6

SHEET NO: **P2.00**



KEY NOTES

- 1 EXISTING LIGHT FIXTURES TO REMAIN.
- 2 REMOVE EXISTING POLE AND BASE. ABANDON CONDUIT AND CONDUCTORS IN PLACE.

REVIEWED FOR CODE COMPLIANCE
SEP 14 2017 JBP
CITY OF LAS VEGAS
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JOB

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

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY

CALL BEFORE
YOU CRANE

1-702-227-2929

Call before you Dig

AVOID HITTING UNDERGROUND
TRAFFIC SIGNAL AND STREET LIGHT
SYSTEM CONDUITS
IT'S COSTLY

Call before you Dig
UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION
AND
1-702-455-7544
CLARK COUNTY TRAFFIC OPERATIONS

Call before you Dig

AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY

Call 811
1-800-227-2600
AND
1-702-455-7544
CLARK COUNTY TRAFFIC OPERATIONS



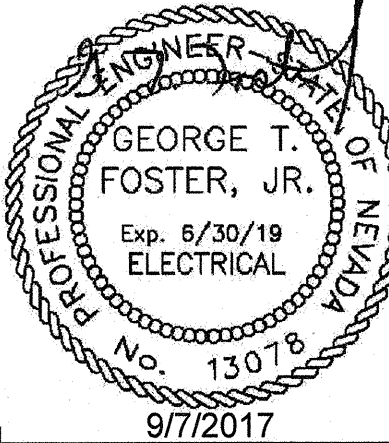
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BOB BASKIN PARK
RENOVATION

SITE LIGHTING REMOVAL PLAN



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DRAWN PDA
FILE 180101443
DATE 9-7-17
SCALE SEE PLAN
BID NO 17.54875.JH
CLV DWG NO 650.27-7

SHT NO

ES0.01

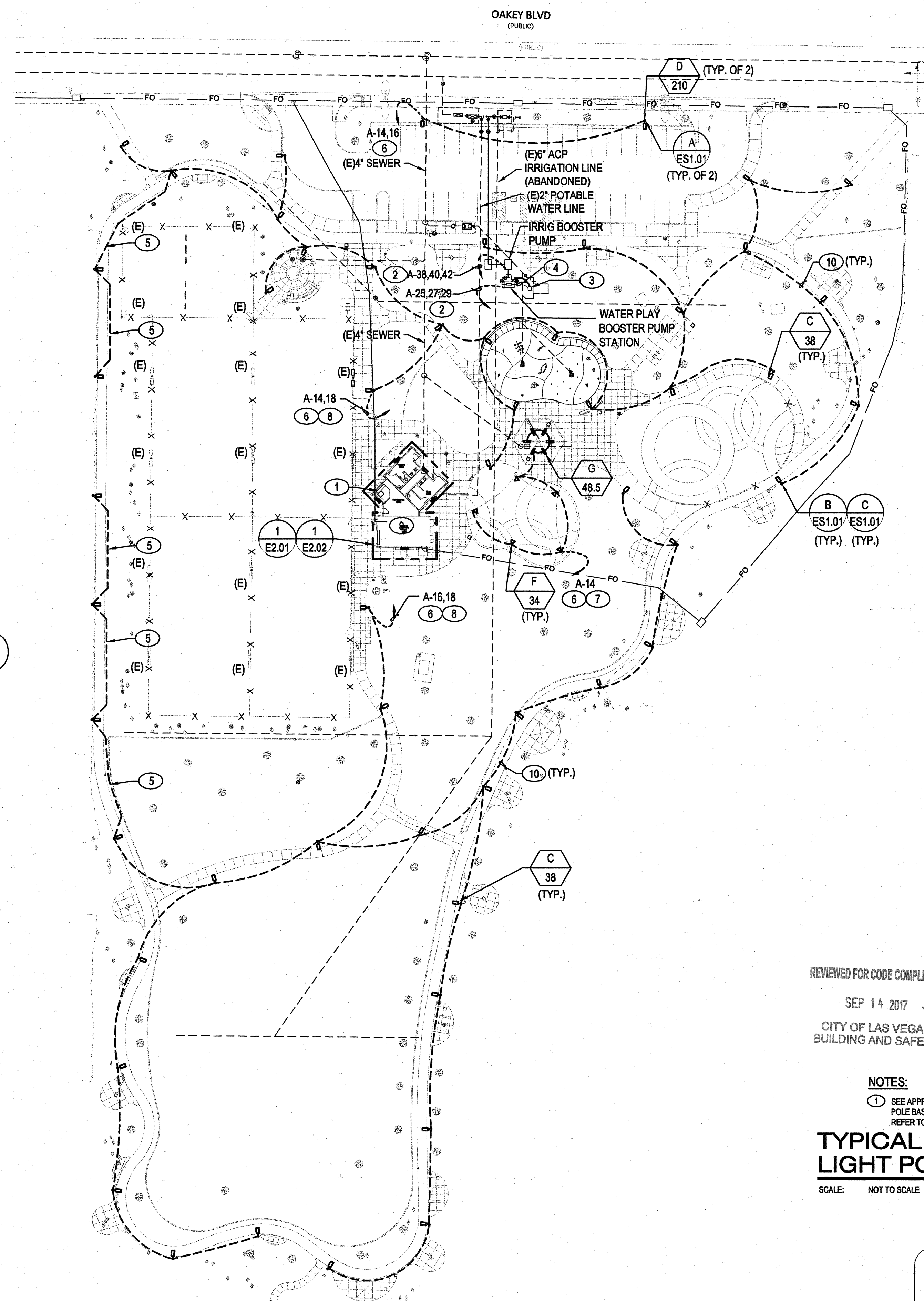
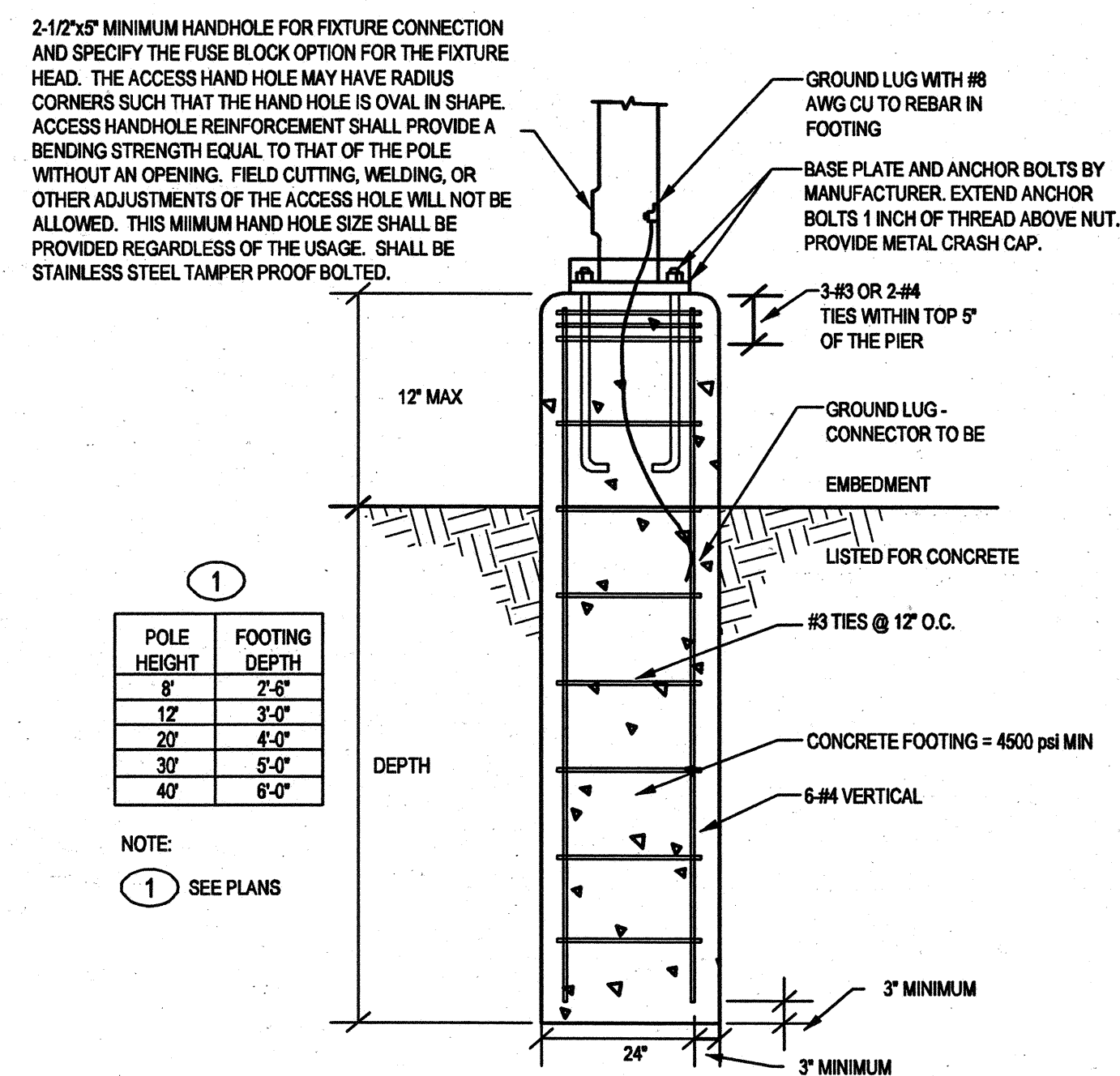
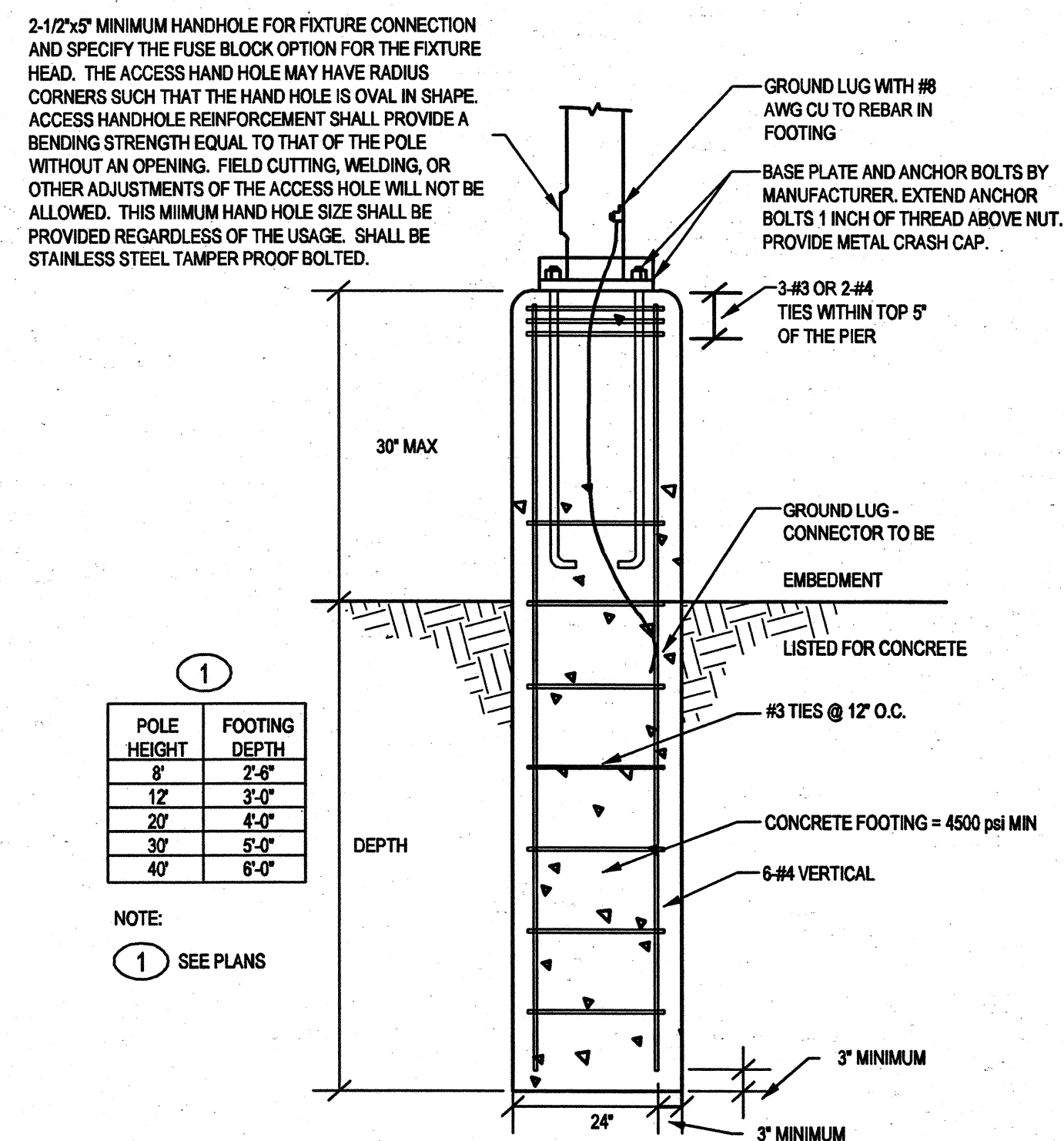
SITE LIGHTING REMOVAL PLAN

SCALE: 1" = 40'-0"

1

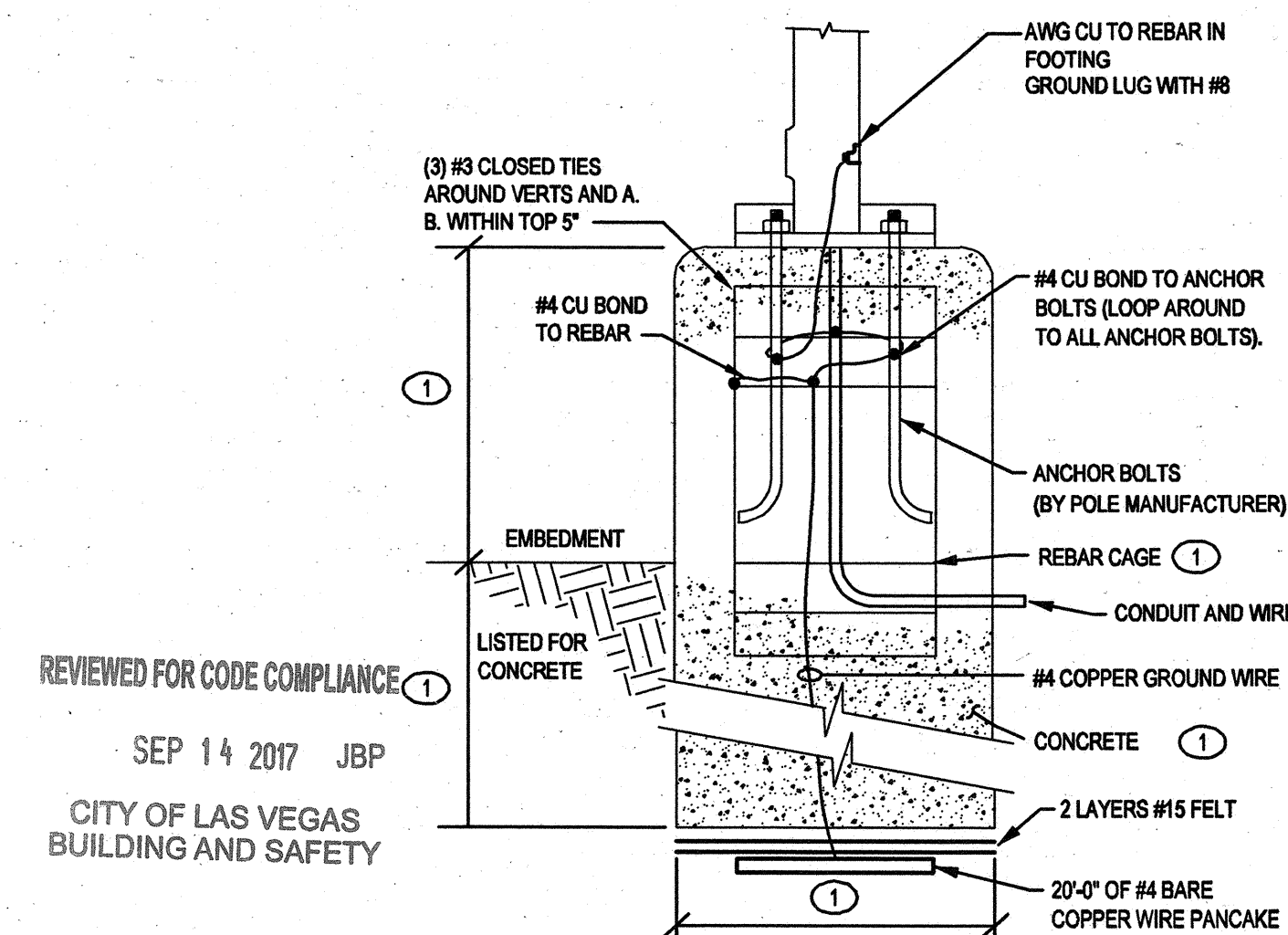


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PERMITS



- ## GENERAL NOTES

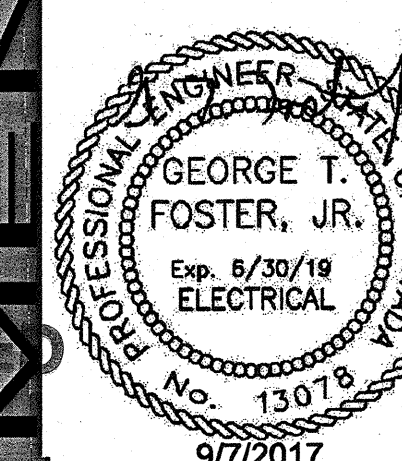
1. INFORMATION SHOWN IS BASED ON LIMITED FIELD SURVEYS. CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT:
- a. YOUR DETAILED EXAMINATION OF THE DRAWINGS SPECIFICATIONS HAS REVEALED NO AMBIGUITIES WHICH NEED CLARIFICATION,
 - b. ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE, AND
 - c. THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.



RENTS

CONSUMERS

**BOB BASKIN PARK
RENOVATION
SITE LIGHTING PLAN
AND DETAILS**



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ARCHITECTURAL SERVICES

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DRAWN PDA

FILE 180101443

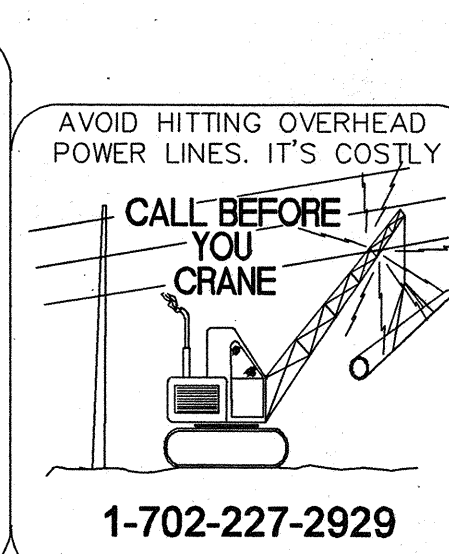
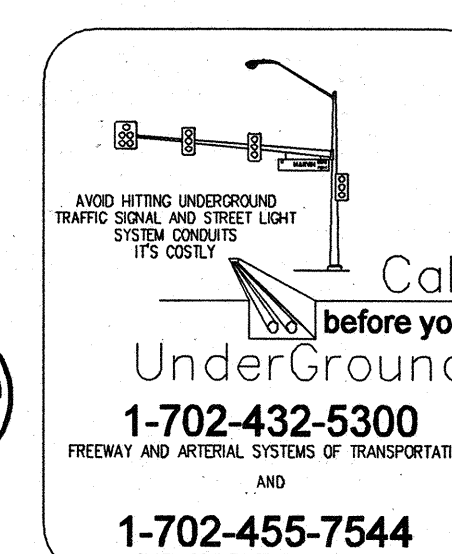
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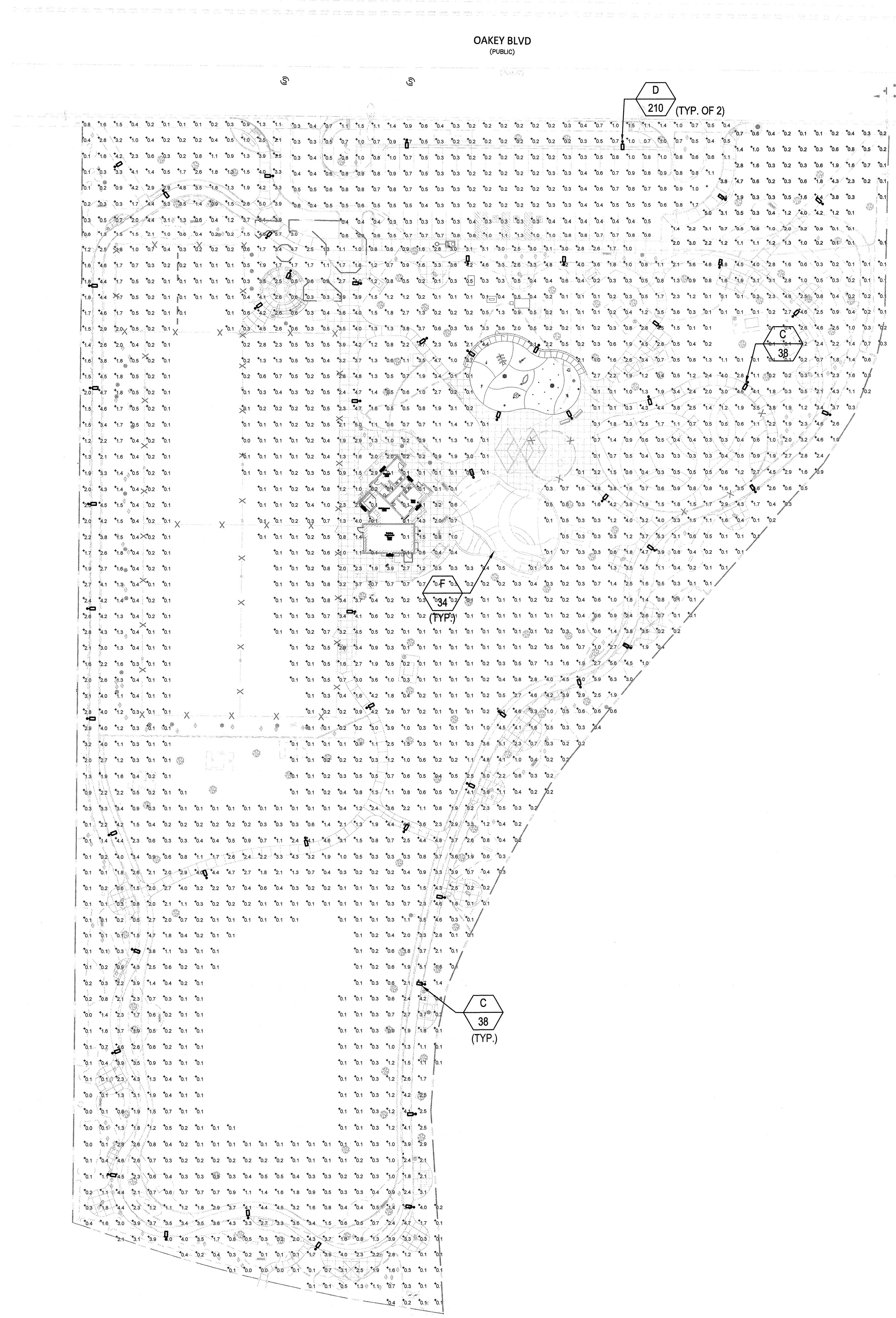
9-7-17

SCALE SEE PLAN

BID NO 17 54875 JH

CLV DWG NO 650 27 7





SITE LIGHTING PHOTOMETRIC PLAN

SCALE: 1"=40'-0"

1



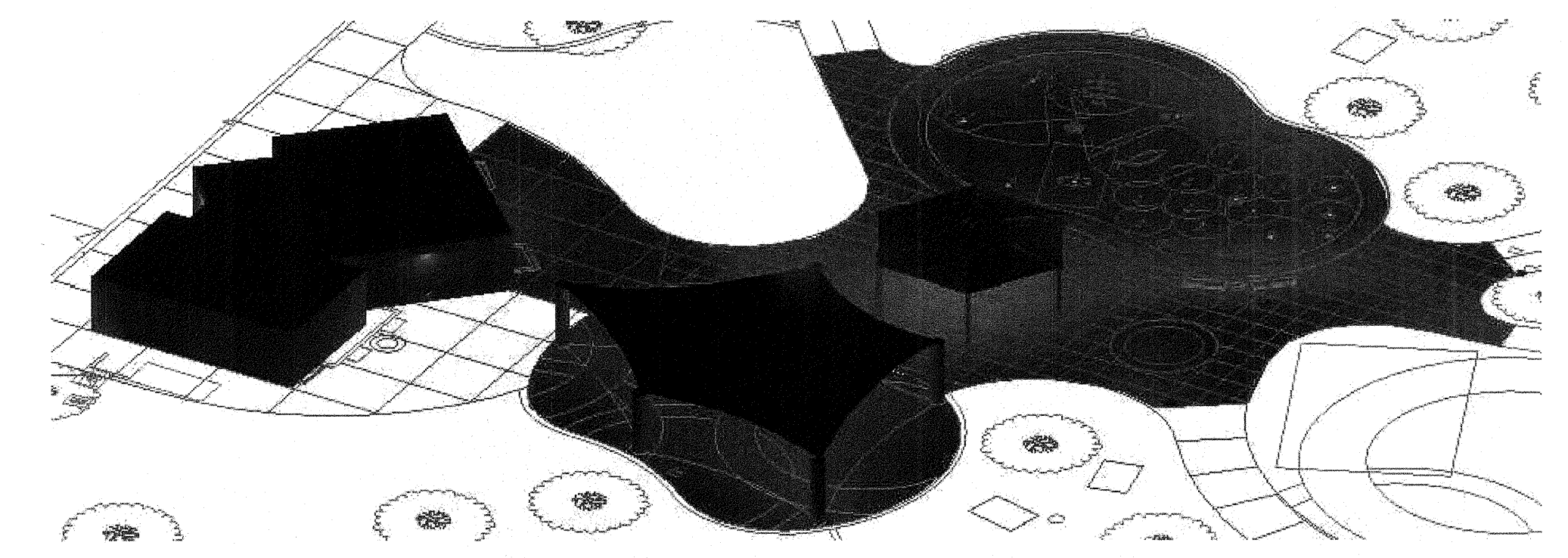
PLAZA LIGHTING RENDERING

SCALE: 1"=40'-0"

2

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BUILDING AND SAFETY

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
Existing Perimeter Trail	+	3.6 fc	12.4 fc	0.3 fc	41.3:1	12.0:1	0.3:1
Interior Walks	+	4.0 fc	11.6 fc	0.7 fc	16.6:1	5.7:1	0.3:1
New Perimeter Trail	+	4.0 fc	12.2 fc	0.3 fc	40.7:1	13.3:1	0.3:1
Park	+	1.1 fc	34.4 fc	0.0 fc	N/A	N/A	0.0:1
Parking Lot	+	1.7 fc	8.6 fc	0.0 fc	N/A	N/A	0.2:1

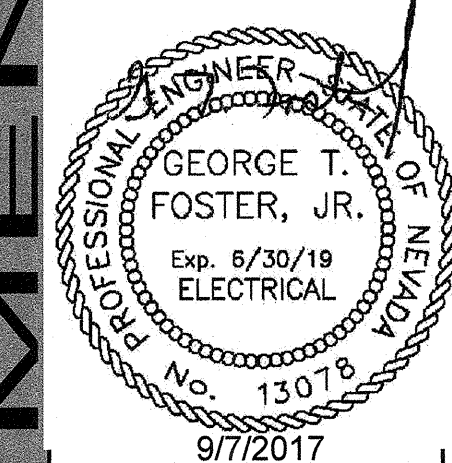


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RENOVATION
SITE LIGHTING PHOTOMETRIC PLAN

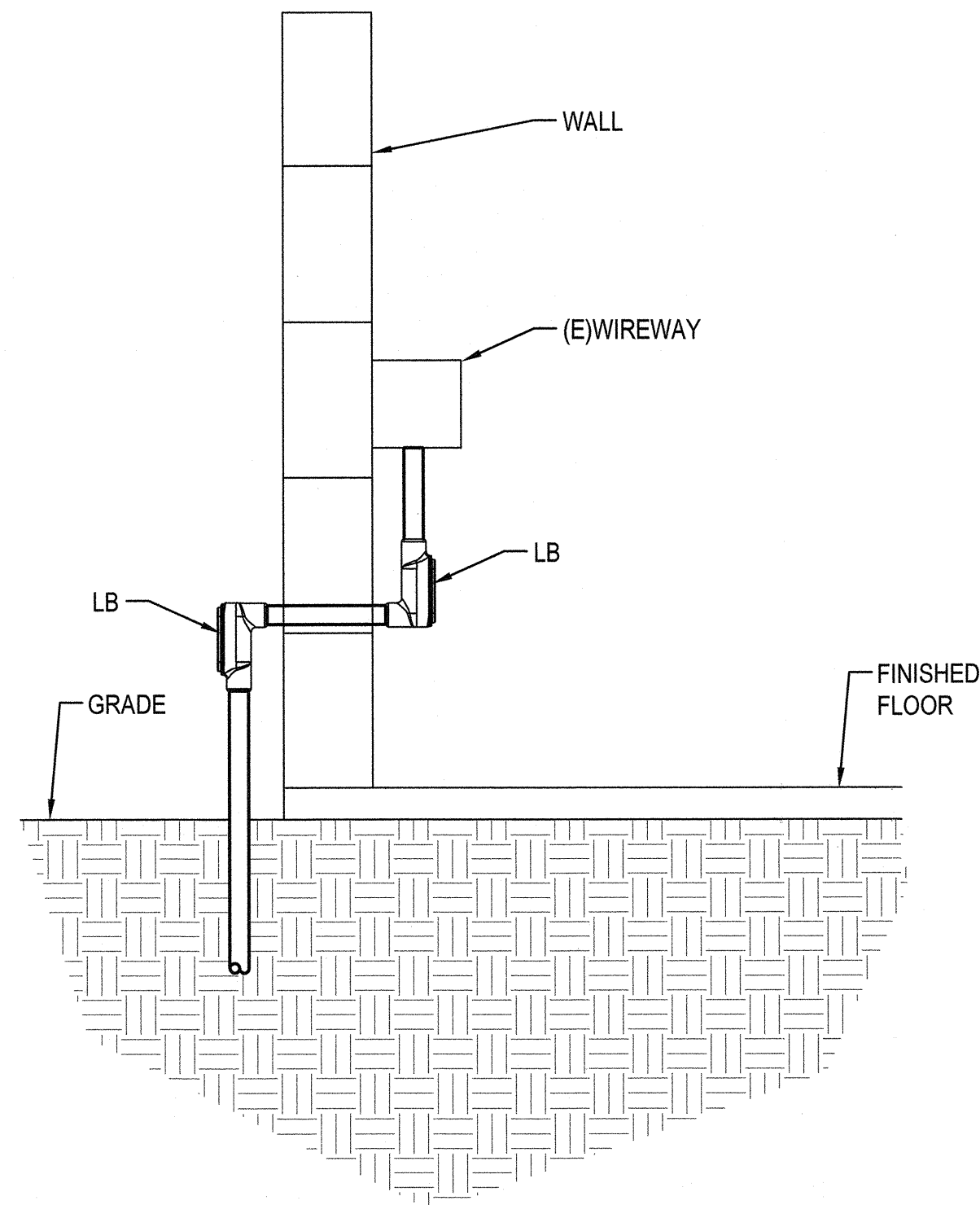


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DRAWN: PDA
FILE: 180101443
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SCALE: SEE PLAN
BID NO: 17.54875.JH
CLY DWG NO: 650.27-7

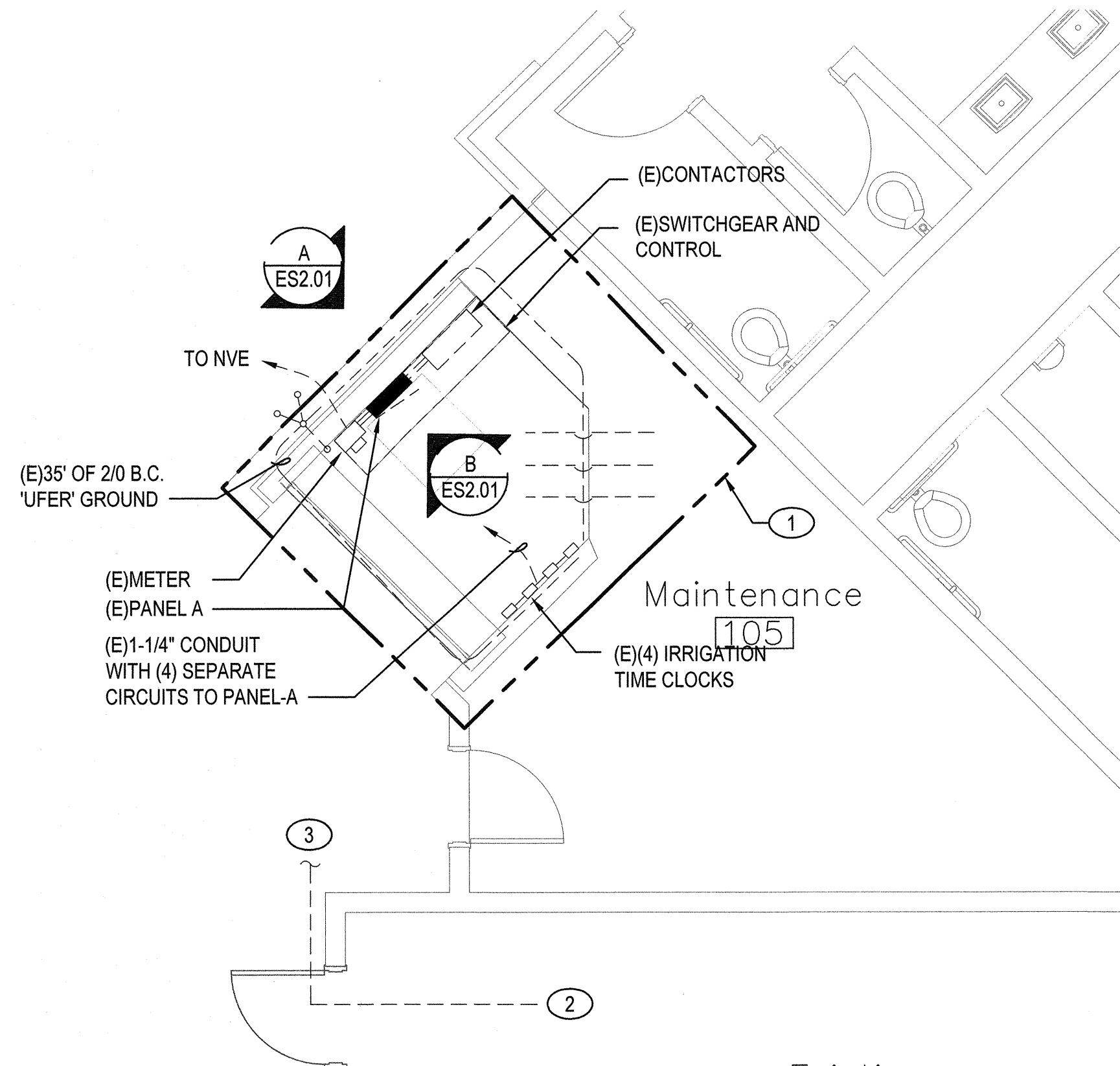
SHT NO: ES1.01A



**SECTION C
INSTALLATION DETAIL**

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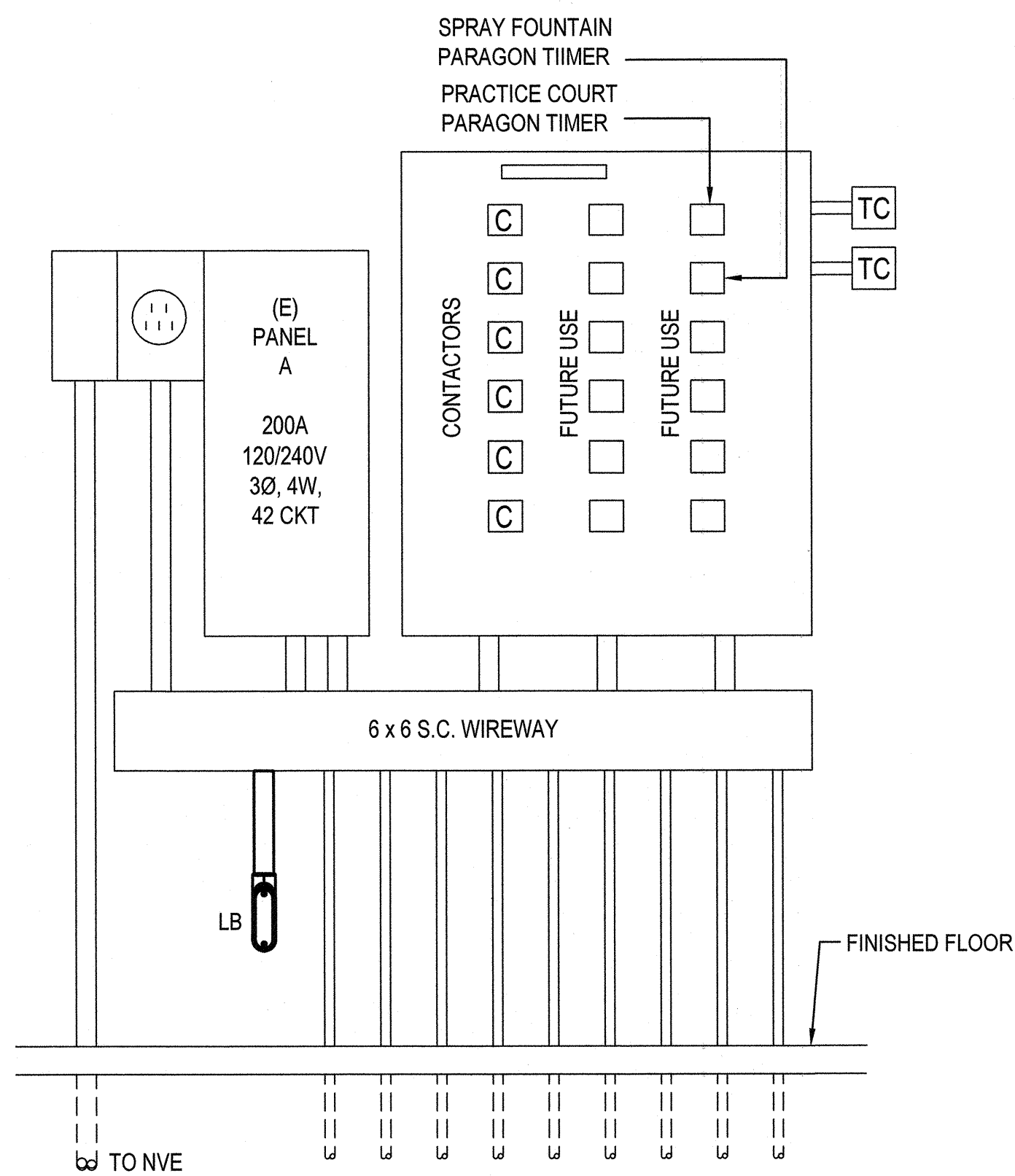
C



ENLARGED EQUIPMENT ROOM

SCALE: 1" = 40'-0"

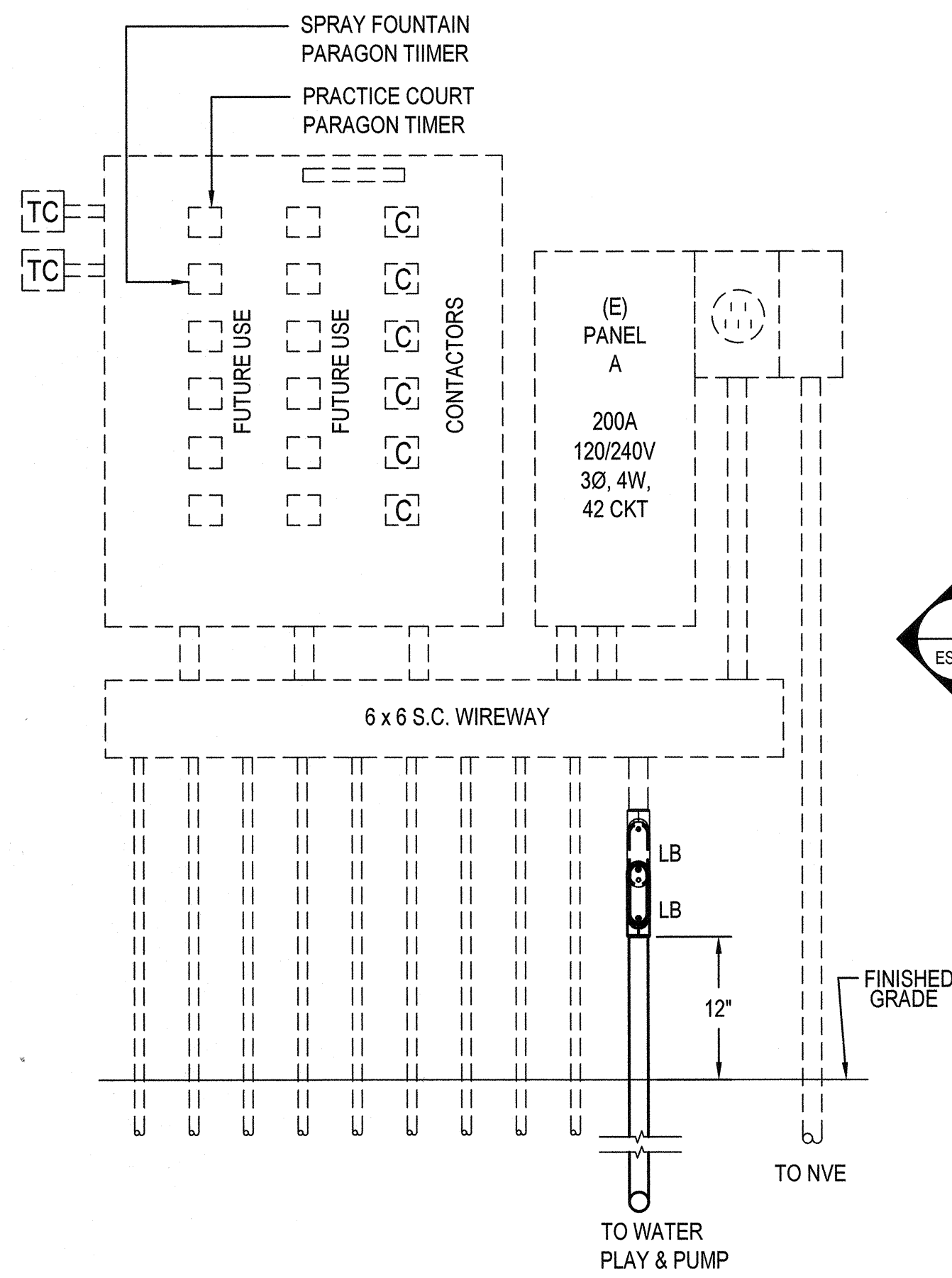
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**SECTION B
SWITCH GEAR AND CONTROL CENTER**

SCALE: NOT TO SCALE

B



**SECTION A
SWITCH GEAR AND CONTROL CENTER**

SCALE: NOT TO SCALE

A

GENERAL NOTES

- INFORMATION SHOWN IS BASED ON LIMITED FIELD SURVEYS. CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT:
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 - ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE, AND
 - THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.
- AVOID TRENCHING NEAR TREES OR WITHIN TEMPORARY TREE PROTECTION FENCING.

KEY NOTES

- PROVIDE TEMPORARY WEATHER PROTECTION AND SUPPORT OF EXISTING ELECTRICAL EQUIPMENT DURING DEMOLITION OF EXISTING RESTROOM AND CONSTRUCTION OF NEW RESTROOM. ATTACH EXISTING EQUIPMENT TO NEW WALLS AS REQUIRED. EXISTING CIRCUITS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DEMOLITION PLAN.
- EXTEND 1-PAIR TELEPHONE FROM EXISTING DEMARK TO NEW IRRIGATION CONTROLLER.
- REFER TO SHEET ES1.01 FOR CONTINUATION.

REVIEWED FOR CODE COMPLIANCE

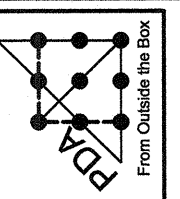
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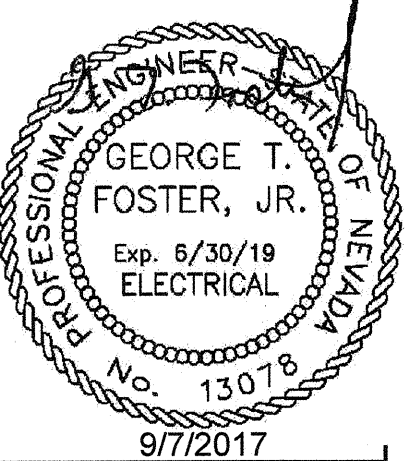
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RENOVATION
ENLARGED EQUIPMENT
ROOM AND DETAILS

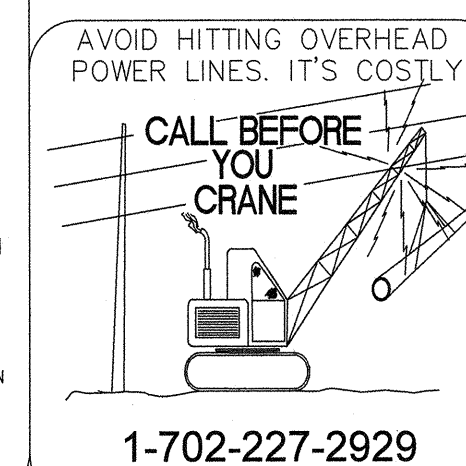
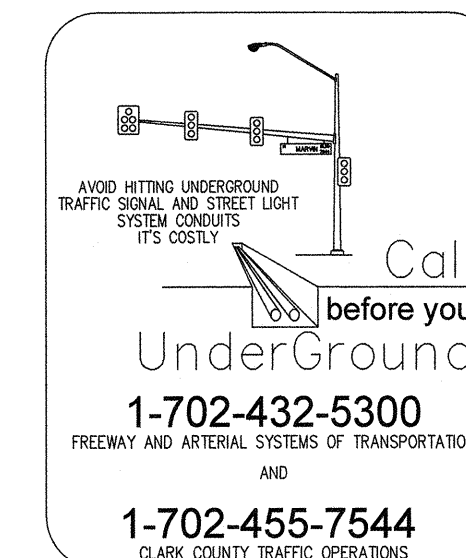


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FILE: 180101443
DATE: 9-7-17
SCALE: SEE PLAN
BID NO: 17.54875.JH
CLV DWG NO: 650.27-7

SHEET NO: ES2.01

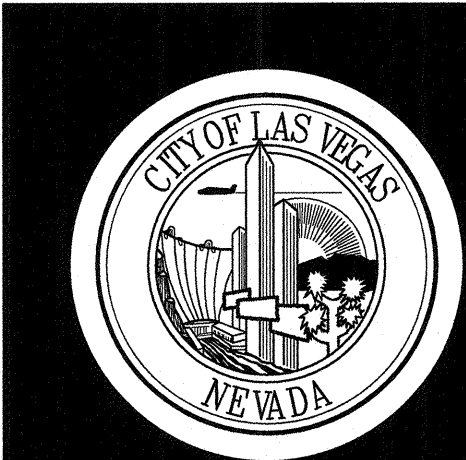


ABBREVIATIONS					
& @ ∅ #	AND AT CENTERLINE PHASE POUND OR NUMBER	FLR. FLUOR. F.B.O. FUT.	FLOOR FLUORESCENT FURNISHED BY OWNER FUTURE	PLYWD PWR	PLYWOOD POWER
A AC ADJ. AF AFF. AFG. AIC	AMPERE ALTERNATING CURRENT ADJUSTABLE AMPERE FRAME ABOVE FINISH FLOOR ABOVE FINISH GRADE AMPERE INTERRUPTING CAPACITY	G GEN. GRD. G.F.I.	GENERATOR GROUND GROUND OR FAULT INTERRUPTER	R RAD RECP REF. REFR REV. REQ REQD RGS RM. RMS. RQMNTS	RADIUS RECEPTACLE REFERENCE REFRIGERANT REVISION OR REVERSED REQUIRE REQUIRED RIGID GALVANIZED STEEL ROOM ROOT MEAN SQUARE REQUIREMENTS
AL. ANSI APPROX. ARCH. ASYM. AT ATS AUX A.V.	ALUMINUM AMERICAN NATIONAL STANDARDS INSTITUTE APPROXIMATE ARCHITECTURAL ASYMMETRICAL AMPERE TRIP AUTOMATIC TRANSFER SWITCH AUXILIARY AUDIO/VISUAL	I I.D.F. I.E.E.E. I.E.S. INFO. INST INSTR	INTERMEDIATE DISTRIBUTION FRAME INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS ILLUM. ENGINEERING SOCIETY INFORMATION INSTANTANEOUS INSTRUMENT	S SCHD SECT SHT SHEET SIM SPEC SQ STA STD. STL STOR SURF SURV SUSP SW SWBD SWGR SYM SYS	SCHEDULE SECTION SHEET SIMILAR SPECIFICATION SQUARE STATION STANDARD STEEL STORAGE SURFACE SURVEILLANCE SUSPENDED SWITCH SWITCHBOARD SWITCHGEAR SYMMETRICAL SYSTEM
B BAT BC BKBD. BD. BLDG. BOC BOD BOP BOTT	BATTERY BARE COPPER BACKBOARD BOARD BUILDING BOTTOM OF CONDUIT BOTTOM OF DUCT BOTTOM OF PIPE BOTTOM	K KA kcmil KVA KVAR KW	KILOAMPERE THOUSAND CIRCULAR MILS KILOVOLT AMPERES KILOVOLT AMPERES-REACTIVE KILOWATT	J JB	JUNCTION BOX
C C. CAB. CLG. CTR. CKT. COMB. CONN. C.O. C.F.C.I C.F.O.I CORR. CU	CONDUIT (W/ PULL LINE IF OTHERWISE EMPTY) CABINET CEILING CENTER CIRCUIT COMBINATION CONNECT CONDUIT ONLY CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED CONTRACTOR FURNISHED/ OWNER INSTALLED CORRIDOR COPPER	L LT LOC L.V.	LIGHT LOCATE LOW VOLTAGE	M MAX MCC MCP MECH MFR MH. MIN. MISC. MLO MOA MTD M/MTR MTS	MAXIMUM MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR MECHANICAL MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MAIN LUGS ONLY MULTI-OUTLET ASSEMBLY MOUNTED MOTOR MANUAL TRANSFER SWITCH
D DET. DIR DISC. DIST. DIV. DBL. DWG.	DETAIL DIRECTED DISCONNECT DISTRIBUTION DIVISION DOUBLE DRAWING	N N NA NC NEC NEMA NEUT NF NFWA	NORTH OR NEUTRAL NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NON-FUSED NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NUMBER OR NORMALLY OPEN NOT TO SCALE	T TTB TC TELE TER TERM TV TL TYP.	TELEPHONE TERMINAL BACKBOARD TELEPHONE CABINET TELEPHONE TELEPHONE EQUIPMENT ROOM TERMINAL TELEVISION TWIST LOCK TYPICAL
E EA. EL. ELEC. EMER. ENCL. EOL EQUIP. E.W.C. EXH. EXST. EXP. EXT.	EACH ELEVATION ELECTRICAL EMERGENCY ENCLOSURE END OF LINE EQUIPMENT ELECTRIC WATER COOLER EXHAUST EXISTING EXPANSION EXTERIOR	O O.F.C.I. O.F.O.I. OFF. OPNG. OPP.	OWNER FURNISHED/ CONTRACTOR INSTALLED OWNER FURNISHED/ OWNER INSTALLED OFFICE OPENING OPPOSITE	U UL U.B.C. U.F.C. U.M.C. U.N.O. U.P.C. UPS	UNDERWRITERS LABORATORIES UNIFORM BUILDING CODE UNIFORM FIRE CODE UNIFORM MECHANICAL CODE UNLESS NOTED OTHERWISE UNIFORM PLUMBING CODE UNINTERRUPTIBLE POWER SYSTEM
F F.M. FT. F.A.P. FIXT. FLEX.	FACTORY MUTUAL FEET OR FOOT FIRE ALARM PANEL FIXTURE FLEXIBLE CONDUIT	P PB PH PR PNL PEND.	PUSH BUTTON PHASE PAIR PANEL PENDANT	V V VA VAR VERT.	VOLT, VOLTAGE VOLT AMPERE VARIES VERTICAL
		W W W/ W/O WP WT	WEST, WATT, WIRE OR WIDE WITH WITHOUT WEATHERPROOF WEIGHT	X XFER XFMR XP	TRANSFER TRANSFORMER EXPLOSION PROOF

ELECTRICAL SYMBOLS	
CONDUIT, RACEWAY AND WIRING SYMBOLS	
	BRANCH CIRCUIT CONSISTING OF 2 #12 & 1 #12 GRD CONDUCTOR IN MINIMUM SIZE CONDUIT
	HOME RUN TO PANELBOARD OR DEVICE-NUMBER OF SHORT TICK MARKS INDICATE NUMBER OF PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. GROUND NOT SHOWN.
	BRANCH CIRCUIT-SHORT SLASHES INDICATE NUMBER OF PHASE OR SWITCH LEGS AND LONG SLASHES INDICATE NUMBER OF NEUTRALS
	CONDUIT STUBBED OUT
	CONDUIT IN SLAB OR UNDERGROUND
	CONDUIT RISER UP
	CONDUIT RISER DOWN
	#5 U/G PULLBOX, U.N.O.
ONE LINE DIAGRAM SYMBOLS	
	CIRCUIT BREAKER
	MOTOR OR MOTOR OUTLET, COORDINATE WITH MECHANICAL CONTRACTOR
	FUSIBLE SWITCH
	METER
	GFI DEVICE
	MAIN LUG
POWER AND CONTROL PLAN SYMBOLS	
	TRANSFORMER
	DISCONNECT SWITCH FUSIBLE
	DISCONNECT SWITCH NONFUSIBLE
	COMBINATION STARTER NONFUSIBLE DISCONNECT SWITCH
	JUNCTION BOX
	PANEL
RECEPTACLE AND SWITCHES SYMBOLS	
	DUPLEX RECEPTACLE @ +18" AFF U.N.O.
	COUNTER RECEPTACLE & +44" AFF.
	QUADRUPLUX RECEPTACLE @ +18" AFF U.N.O.
	GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE WITH WEATHER PROOF COVER PLATE
	SINGLE POLE SWITCH @ +48" AFF U.N.O.
	3-WAY SWITCH @ +48" AFF U.N.O.
	WALL BOX DIMMER @ +48" AFF U.N.O.
	MANUAL MOTOR STARTER @ +48" AFF U.N.O.
	OCCUPANCY SENSOR SWITCH
DRAWING SYMBOLS	
	FIXTURE ID
	FIXTURE WATTAGE
	QTY
	DETAIL NUMBER
	SHEET NUMBER
	KEYNOTE

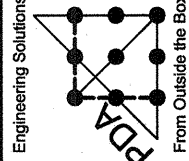
DRAWING INDEX	
E1.01	ABBREVIATIONS, ELECTRICAL SYMBOLS, DRAWING INDEX AND NOTES
ES0.01	SITE LIGHTING REMOVAL PLAN
ES1.01	SITE LIGHTING PLAN AND DETAILS
ES1.01A	SITE LIGHTING PHOTOMETRIC PLAN
ES2.01	ENLARGED EQUIPMENT ROOM AND DETAILS
E2.01	RESTROOM LIGHTING PLAN
E2.01A	RESTROOM LIGHTING PHOTOMETRIC PLANS
E2.02	RESTROOM POWER PLAN
E3.01	SINGLE LINE DIAGRAM AND SCHEDULES

PROJECT NOTES	
1.	INFORMATION SHOWN IS BASED ON LIMITED FIELD SURVEYS. CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT: a. YOUR DETAILED EXAMINATION OF THE DRAWINGS AND SPECIFICATIONS HAS REVEALED NO AMBIGUITIES WHICH NEED CLARIFICATION, b. ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE, AND c. THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND YOUR SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.
2.	INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND ASSOCIATED APPURTENANCES SHALL TO BE PER NEC AND NEIS STANDARDS.
3.	FIELD LOCATE ALL EXISTING UTILITIES AND POT HOLE WHERE REQUIRED TO VERIFY DEPTH.



REVISIONS

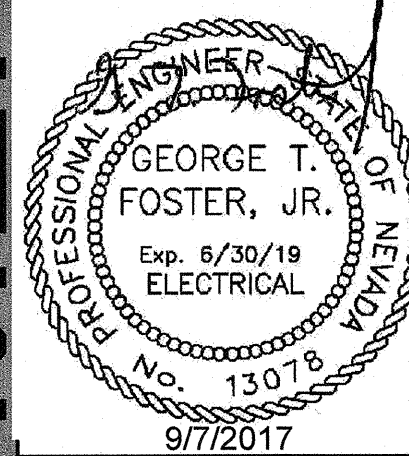
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BOB BASKIN PARK
RENOVATION

ABBREVIATIONS, ELECTRICAL SYMBOLS
DRAWING INDEX AND NOTES



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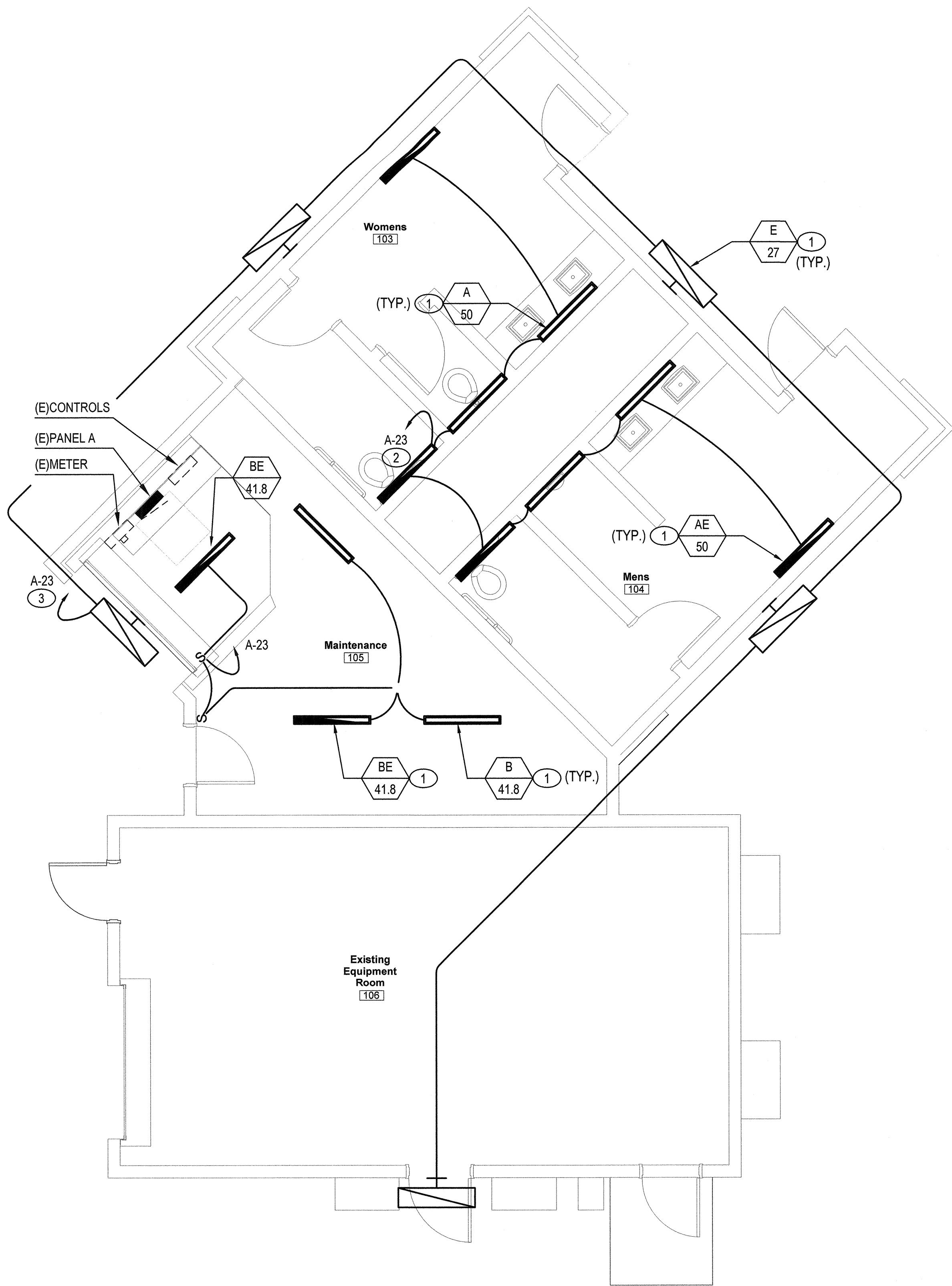
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FAX: (702) 384-4846

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CITY OF LAS VEGAS
BUILDING AND SAFETY

DRAWN	PDA
FILE	180101443
DATE	9-7-17
SCALE	SEE PLAN
BID NO	17.54875.JH
CLV DWG NO	650.27-7
SHT NO	E1.01



RESTROOM LIGHTING PLAN

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

1



KEY NOTES

- 1 REFER TO SHEET E3.01 LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- 2 ON/OFF BY ASTRONOMICAL TIME SWITCH AS-1.
- 3 ON/OFF BY EXISTING TIME SWITCH AS-2 (CIRCUIT A-20,22).

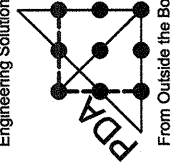
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REVISIONS	

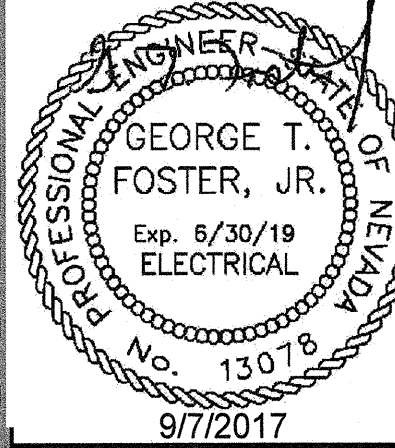
CONSULTANT



PDA Engineering Solutions
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email: pda@pdacorp.com

BOB BASKIN PARK
RENOVATION
RESTROOM LIGHTING PLAN

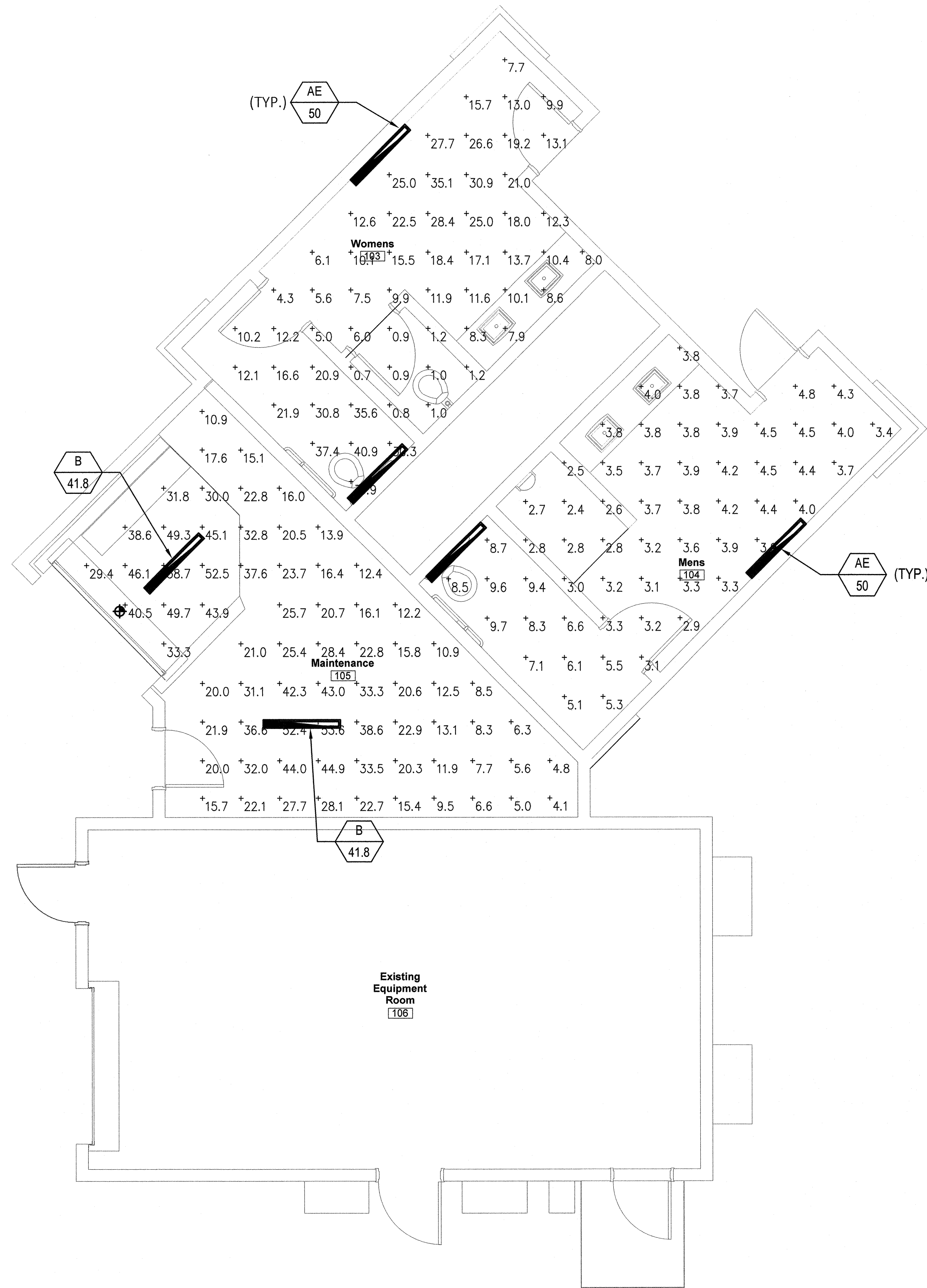


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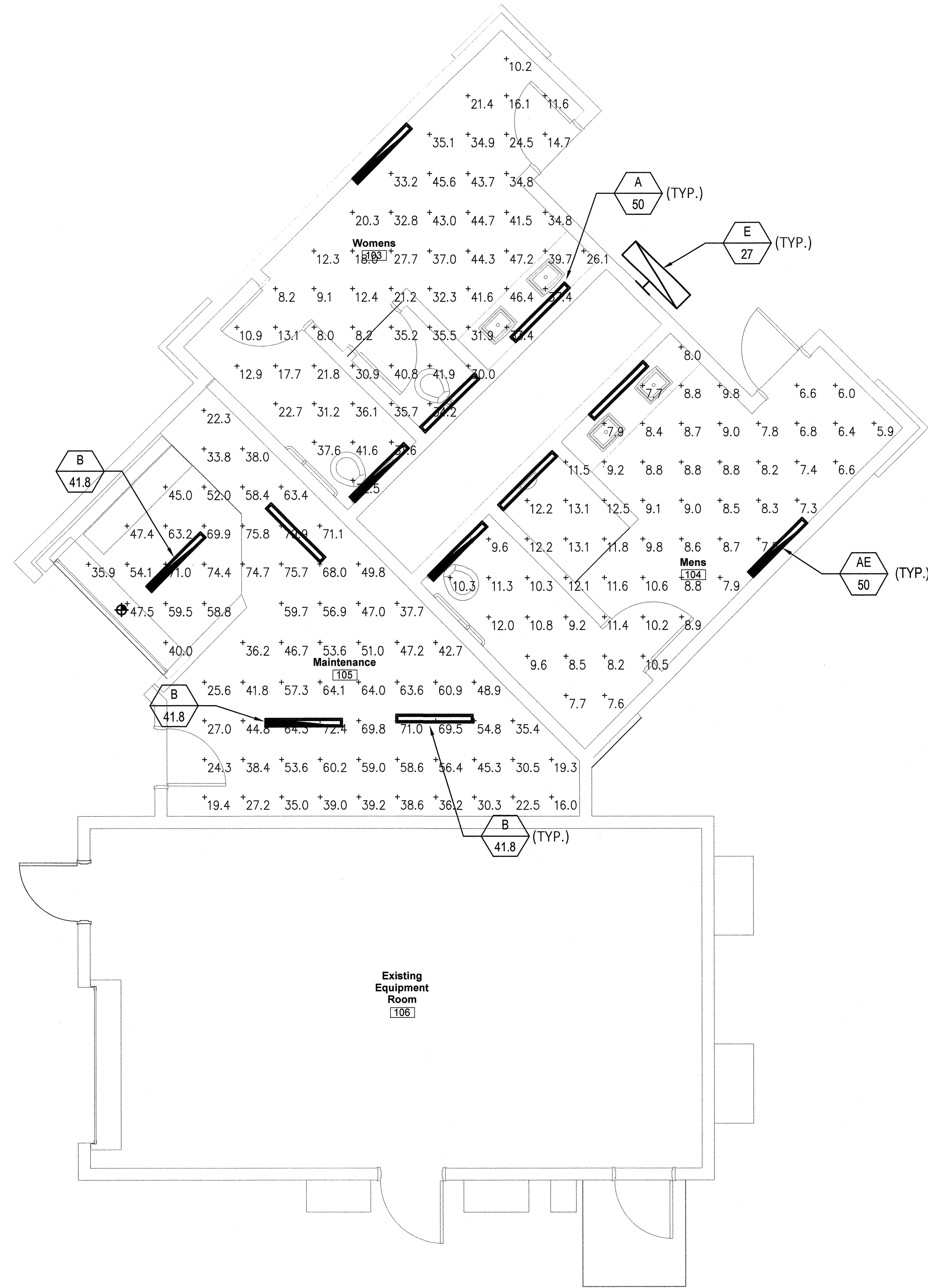
SHT NO
E2.01



RESTROOM PHOTOMETRIC LIGHTING PLAN - EMERGENCY

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

2



RESTROOM PHOTOMETRIC LIGHTING PLAN - NORMAL

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

1



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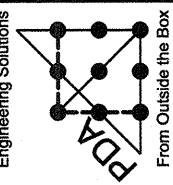
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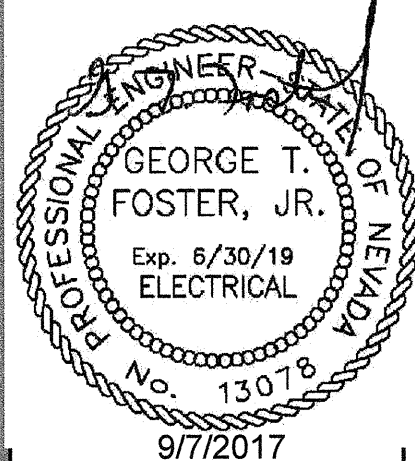
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RENOVATION

RESTROOM PHOTOMETRIC PLANS



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ARCHITECTURAL SERVICES

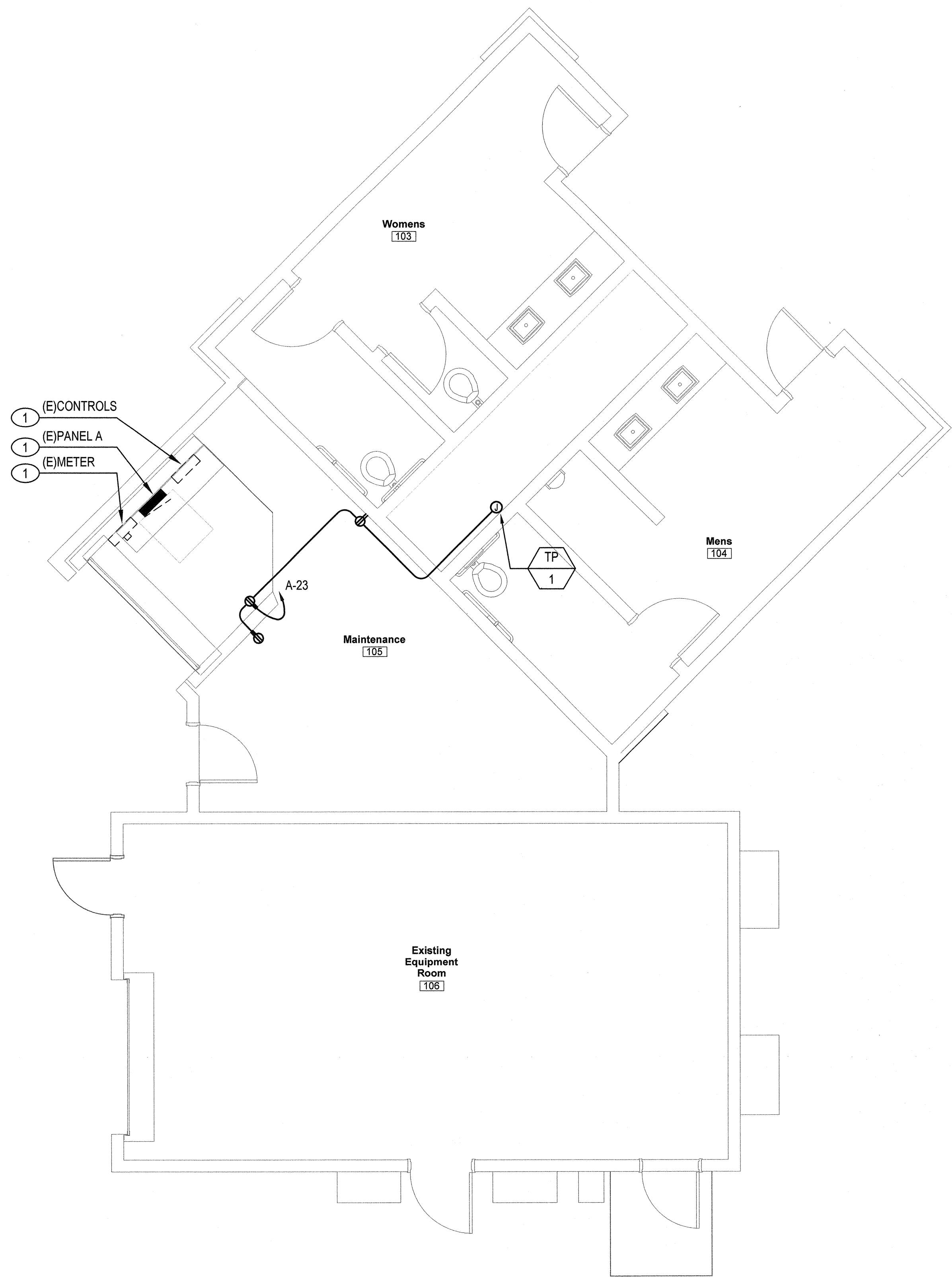
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PHONE: (702) 229-6276
FAX: (702) 384-4846

DRAWN	PDA
FILE	180101443
DATE	9-7-17
SCALE	SEE PLAN
BID NO	17.54875.JH
CLD DWG NO	650.27-7

SHT NO

E2.01A

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RESTROOM POWER PLAN

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

1



KEY NOTES

- 1 TEMPORARY SUPPORT AND WEATHER PROTECT EXISTING ELECTRICAL EQUIPMENT DURING RECONSTRUCTION OF RESTROOM BUILDING.



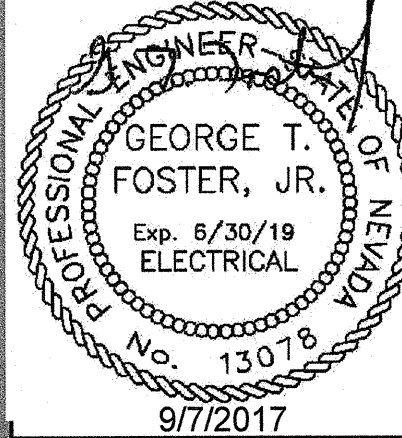
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BOB BASKIN PARK
RENOVATION
RESTROOM POWER PLAN



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DATE	9-7-17
SCALE	SEE PLAN
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CLV DWG NO	650.27-7

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PROJECT NUMBER: 18013						PDA CONSULTING ENGINEERS, LLC					
LIGHTING FIXTURE SCHEDULE											
PROJECT NAME: BASKIN PARK						14-Sep-17					
FIXTURE TYPE	VOLTS	FLUOR	SL	SHD	INDIC	MOUNTING	LAMP (S)	CONTROL MEDIA (LENS, LOUVER, ETC.)	MANUFACTURER'S CATALOG NUMBER	DESCRIPTION / REMARKS	
A	120	X				WALL	50W	0.25" POLYCARBONATE	KENALL MANUFACTURING CD-4-1/1-1-45L35K-DCC-1-DV-YB-1	WALL MOUNT AT 8'-0" AFF	
AE	120	X				WALL	50W	0.25" POLYCARBONATE	KENALL MANUFACTURING CD-4-1/1-1-45L35K-DCC-1-DV-YB-1/PEL	WALL MOUNT AT 8'-0" AFF WITH HIGH LUMENEL BATTERY PACK	
B	120	X				CEILING/ STRUCTURE	41.8W		LITHONIA LIGHTING ZL1NL 48 5000LM L/LENS MVOLT 35K 80CRI WH	CEILING MOUNT. PROVIDE WG248	
BE	120	X				CEILING/ STRUCTURE	41.8W		LITHONIA LIGHTING ZL1NL 48 5000LM L/LENS MVOLT 35K 80CRI E7W WH	CEILING MOUNT. PROVIDE EMERG BATTERY PACK AND WG248	
C	240	X				16 FT POLE	38W		EATON - MCGRAW-EDISON GLEON-AE-01-LED-E1-SL2-BZ- HA-MS/DIML20-HSS ADD DIMMER	MOUNTED ON 16 FT 5" SQUARE POLE BRONZE, 4"X6" HANDHOLE	
D	240	X				25 FT POLE	210W		EATON - MCGRAW-EDISON GLEON-AE-06-LED-E1-SL4-BZ- HA-MS/DIML40-HSS	MOUNTED ON 25 FT 5" SQUARE POLE BRONZE, 4"X6" HANDHOLE	
E	120	X				WALL	27.1W	0.187 CLEAR POLYCARBONATE	KENALL MANUFACTURING FN8L-2-7-DB-24L50K7-DCC-DV	MOUNT NEAR TOP OF WALL, AS HIGH AS POSSIBLE.	
F	120	X				SUPPORT COLUMN	34W	LENSED	HYDREL TPS1-18LED-WHT53K-MVOLT- MFL-YM-LPI-GN	FABRIC SHADE STRUCTURE LIGHT MOUNTED 10'-0" ON STRUCTURE POLE. COLOR TO MATCH FABRIC SUPPORT POLES. AIM UP AT UNDERSIDE OF FABRIC.	
G	120	X				BEAM	48.5	0.187 P12 POLYCARBONATE	KENALL MANUFACTURING N548-C-1-45L40K-DCC-1-DV	MOUNT AT CENTER BOTTOM OF ROOF BEAM, AIMED DOWN	

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

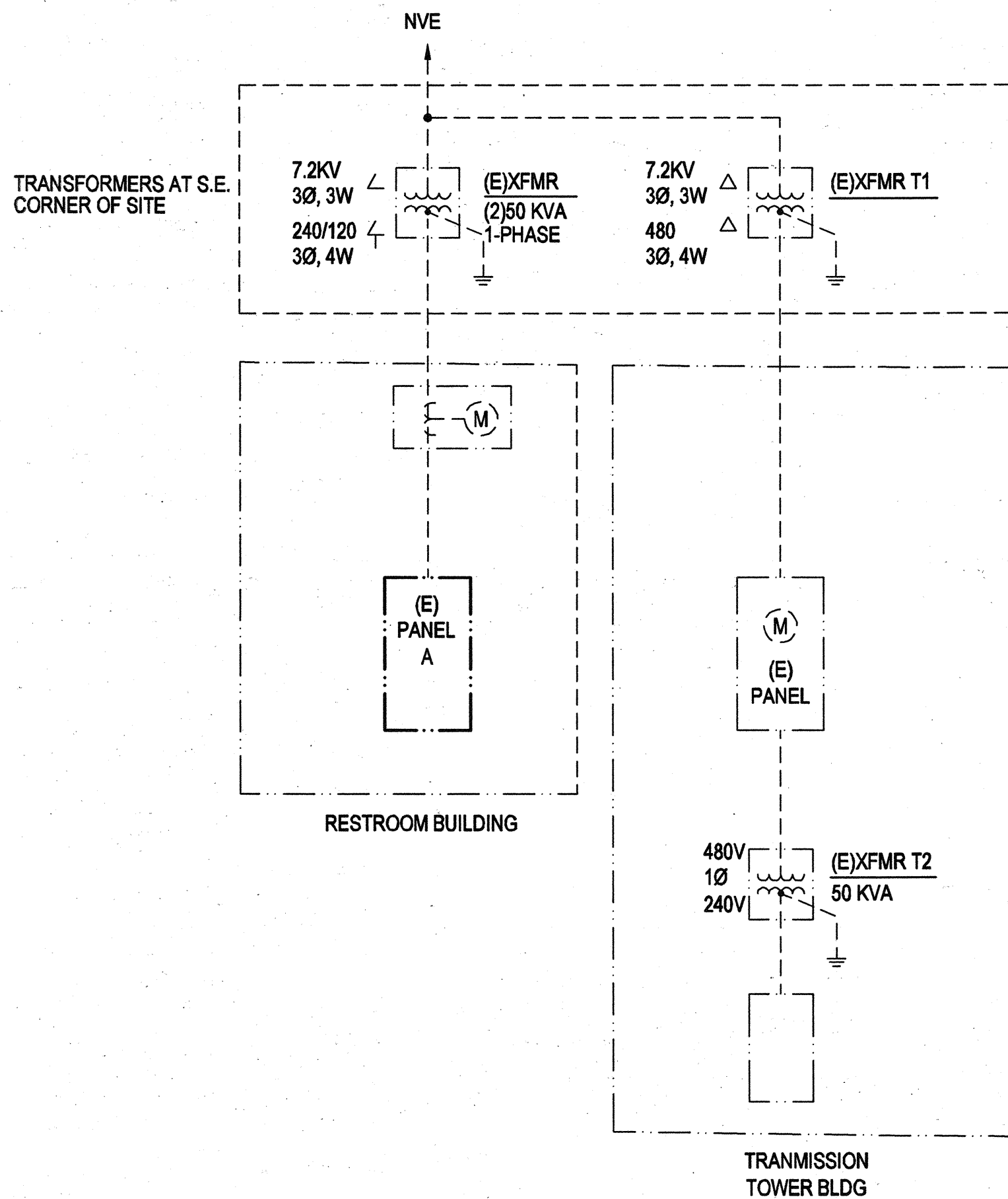
- CONTRACTOR SHALL PROVIDE 10% SPARE LAMPS OF EACH TYPE SCHEDULED TO THE OWNER.
- ALL LAMPS SHALL HAVE A COLOR TEMPERATURE OF 3500 DEGREES KELVIN.
- CONTRACTOR SHALL CLEAN ALL LIGHTING FIXTURES AND REMOVE ANY VISIBLE LABELS.
- CONTRACTOR SHALL VERIFY CEILING TYPES, MATERIALS AND MOUNTING REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO ORDERING.

PDA CONSULTING ENGINEERS				PROJECT NAME: BASKIN PARK										
VOLTS L-L: 240				PROJECT NUMBER: 16013										
VOLTS L-N: 120				PANEL LOCATION: RESTROOM										
PHASE: 3				BUS MATERIAL: CU										
WIRE: 4				GROUND BUS: YES										
MOUNTING: SURFACE				BRANCH BRKS: BOLT-ON										
ENCLOSURE: NEMA 1				NEUTRAL RATING: 100%										
DATE: 08/14/2017				POLES REQUIRED: 42										
PANELBOARD: A														
B-PHASE - HIGH LEG				(EXISTING)										
MLO: 225				MAIN BUS RATING: 225 AMPS										
MCB: 10 K				GFI MAIN: NO										
AIC RATING: 10 K				SHUNT TRIP: NO										
FULLY RATED: YES														
SERIES RATED:														
BASIS OF DESIGN: SQ D - NQOD - 20" W. X 6.5" D.														
LOAD SERVED		PHASE "A" VA	PHASE "B" VA	PHASE "C" VA	CIRCUIT BREAKER AMP	CIRCUIT BREAKER POLE	CIRCUIT BREAKER NUMBER	CIRCUIT BREAKER POLE	CIRCUIT BREAKER AMP	PHASE "A" VA	PHASE "B" VA	PHASE "C" VA	LOAD SERVED	
1	COURT #3	1640			3	3	1	2	3	30	2460		COURT #4	
1			2460				3	4			1640			
1				1140			5	6				2460		
1	COURT #2	2460			30	3	7	8	3	30	1640		COURT #1	
1			2460				9	10			2460			
1				1640			11	12				2460		
1	PRACTICE COURTS	1140			20	3	13	14	3	35	2764		SECURITY LIGHTS	
1			2280				15	16			2199			
1				1140			17	18				2864		
3	PARK SHUTDOWN TIME SW.	500			20	2	19	20	2	20	500		AREA LIGHTS TIME SW. AS-2	
3			500				21	22			500			
1	BREAK/RESTROOMS/MAINT AS-1			1399	20	1	23	24	1	15		360	PHONE BB	
3	WATER PLAY PUMP	2840			45	3	25	26	1	15	540		PLUMB CHASE/MECH ROOM RECEPT	
3			2840				27	28	1		0		SPACE	
3				2840			29	30	1	20		540	BREAK ROOM	
3	WATER CLOCK #4	500			15	1	31	32	1	20	540		BREAK ROOM	
8	SPACE		0				33	34	1		0		SPACE	
2	RECEPTACLES			540	20	1	35	36	1	20		0	SPACE	
2	RECEPTACLES	540			20	1	37	38	3	45	2840		IRRIGATION PUMP	
8	SPACE		0				39	40				2840		
1	HEAT LAMP			150	15	1	41	42				2840		
0	SUB-FEED												SUB-FEED	
SUB-TOTALS		9420	10340	9849							11094	9429	11424	SUB-TOTALS
CONNECTED VA - PHASE A:		20504	CONNECTED AMPS - PHASE A:		170.9	CONNECTED KVA:		60.3						
CONNECTED VA - PHASE B:		19799	CONNECTED AMPS - PHASE B:		164.7	NEC DIVERSITY KVA:		60.3						
CONNECTED VA - PHASE C:		20073	CONNECTED AMPS - PHASE C:		167.3	NEC DEMAND KVA:		70.1						
						(INCLUDING SPARE CAPACITY)								
TOTAL CONNECTED VA:		60346	MAX. CONN. PHASE AMPS "A" @		170.9	NEC DEMAND AMPS:		168.8						
						(INCLUDING SPARE CAPACITY)								
GENERAL NOTES:														
* BRANCH CIRCUIT BREAKERS SHALL BE ARRANGED AS INDICATED ABOVE. PHASING DEVIATIONS WILL NOT BE ALLOWED.														
* ALL CIRCUIT BREAKERS FEEDING REFRIGERATION EQUIPMENT SHALL BE "HACR" TYPE PER EQUIPMENT NAMEPLATE.														
BALANCED WITHIN 10% ERROR CODES: 0														
N.E.C. DEMAND CALCULATIONS FOR PANEL - A														
1	CONNECTED LIGHTING LOAD	38946 VA	CONNECTED LIGHTING LOAD @	125% =	48683 VA									
2	CONNECTED RECEPTACLE LOAD	3080 VA	1st 10 KW OF RECEPTACLES @ 100% + BALANCE @	50% =	3080 VA									
3	CONNECTED EQUIPMENT LOAD	18340 VA	EQUIPMENT LOAD DEMAND @	100% =	18340 VA									
4	CONNECTED KITCHEN EQUIPMENT LOAD	0 VA	PER NEC 220-20, 0 KITCHEN UNITS @	100% =	0 VA									
5	CONNECTED HEATING LOAD	0 VA	LARGER OF HEATING or COOLING LOAD @	100% =	0 VA									
6	CONNECTED COOLING LOAD	0 VA	LARGER OF COOLING or HEATING LOAD @	100% =	0 VA									
7	CONNECTED HEAT PUMP LOAD	0 VA	HEAT PUMP COMPRESSOR & HEAT STRIPS @	100% =	0 VA									
11	CONNECTED ELEVATOR LOAD	0 VA	PER NEC 620-14, 0 ELEVATORS @	100% =	0 VA									
12	CONNECTED MISC. MECHANICAL LOAD	0 VA	MISC. MECHANICAL LOAD @	100% =	0 VA									
13	CONNECTED HOTEL GUEST ROOM LOAD	0 VA	HOTEL GUEST ROOM LOAD PER NEC 220-42		0 VA									
14	CONNECTED NON-COINCIDENTAL LOAD	0 VA	NON-COINCIDENTAL LOAD (NON-ADDITIVE)		0 VA									
LARGEST MOTOR =		0 VA	VA OF LARGEST MOTOR @	25% =	0 VA									
			ADDITIONAL SPARE CAPACITY ADDED	0% =	0 VA									
TOTAL CONNECTED:		60346 VA	TOTAL DEMAND:		70083 VA									

LEGEND

- NEW OR REPLACEMENT EQUIPMENT
- EXISTING EQUIPMENT TO BE REVISED
- EXISTING EQUIPMENT TO REMAIN AS-IS
- EXISTING FEEDER/CABLE
- FUTURE EQUIPMENT AND CONDUIT
- (E) EXISTING EQUIPMENT
- (R) EXISTING EQUIPMENT TO BE REPLACED

Bob Baskin Park - Panel A Service Calculations		
EXISTING 12 MO. DEMAND	36.0	KW
KVA @ .85 PF	42.4	KVA
REMOVED LOADS	-1.4	KVA
SUBTOTAL:	41.0	KVA
Add 25% per NEC 220-35	10.3	KVA
ADDED LOADS:	23.8	KVA
TOTAL REVISED LOADS:	75.0	KVA
VOLTAGE:	240	VOLTS
PHASE:	3	
SERVICE AMPS:	180	AMPS



SINGLE LINE DIAGRAM

SCALE: NOT TO SCALE

1

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ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED
VOLTAGE DROP CALCULATIONS WITHIN THE SCOPE OF
THIS PROJECT.

ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED
FAULT CALCULATIONS WITHIN THE SCOPE OF THIS
PROJECT.

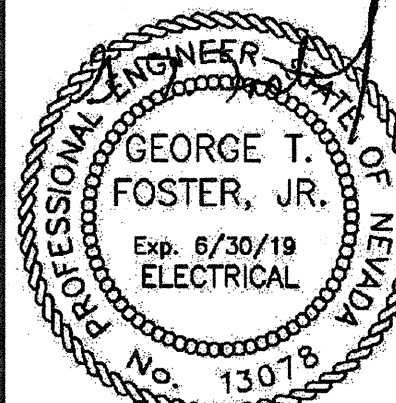


REVISIONS

CONSULTANT

PDA Consulting Engineers, LLC
108 Market Street - Henderson, NV 89015
(702) 567-1022
email: pda@pdacorp.com

BOB BASKIN PARK
RENOVATION
SINGLE LINE DIAGRAM
AND SCHEDULES



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

DEVELOPMENT SERVICES CENTER
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89105
PHONE: (702) 229-6276
FAX: (702) 384-4846

DRAWN

PDA

FILE

180101443

DATE

9-7-17

SCALE

SEE PLAN

REV NO

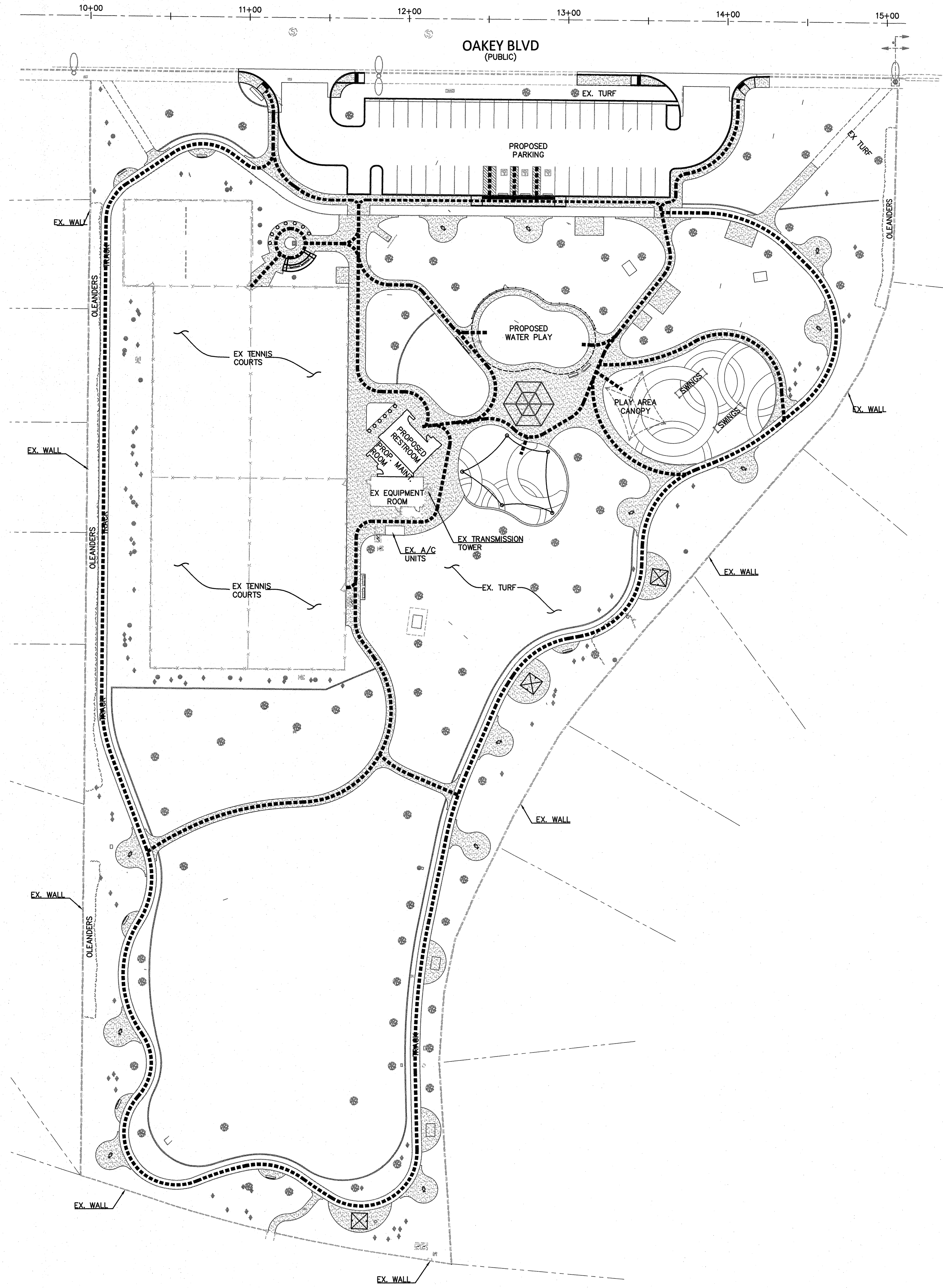
17.54875.JH

CLV DWG NO

650.27-7

SHT NO

E3.01



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

BENCHMARK
CITY OF LAS VEGAS BENCHMARK BLV11565
RIVET AND PLATE IN TOP OF CURB ON SOUTH SIDE OF OAKLEY BOULEVARD AT THE INTERSECTION OF OAKLEY BOULEVARD AND CAHLAN DRIVE.
ELEVATION = 636.35 METERS
ELEVATION = 2087.77 FEET (NAVD 88 - 2008 CLV ADJUSTMENT)

LEGEND:
----- ADA ACCESSIBLE ROUTE

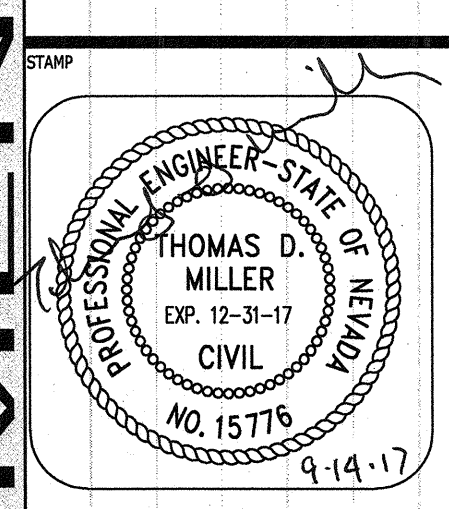
REVIEWED FOR CODE COMPLIANCE
SEP 14 2017 DM
CITY OF LAS VEGAS
BUILDING AND SAFETY

RECEIVED
SEP 14 2017 00064
CITY OF LAS VEGAS



COLLINS ENGINEERS
3130 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
WWW.COLLINSENGR.COM

BOB BASKIN PARK
RENOVATION
ADA ACCESSIBLE ROUTE



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

DEVELOPMENT SERVICES CENTER
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6276
FAX: (702) 384-4846

DRAWN: AP
FILE: 180101443
DATE: 9/14/2017
SCALE: 1" = 40'
BD NO: 17.54875.JH
CLV DWG NO: 650.27-7

SHT NO:
HC-1.00

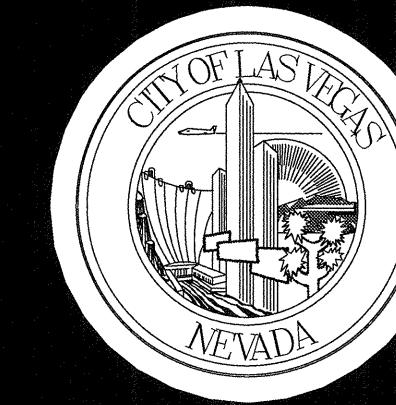
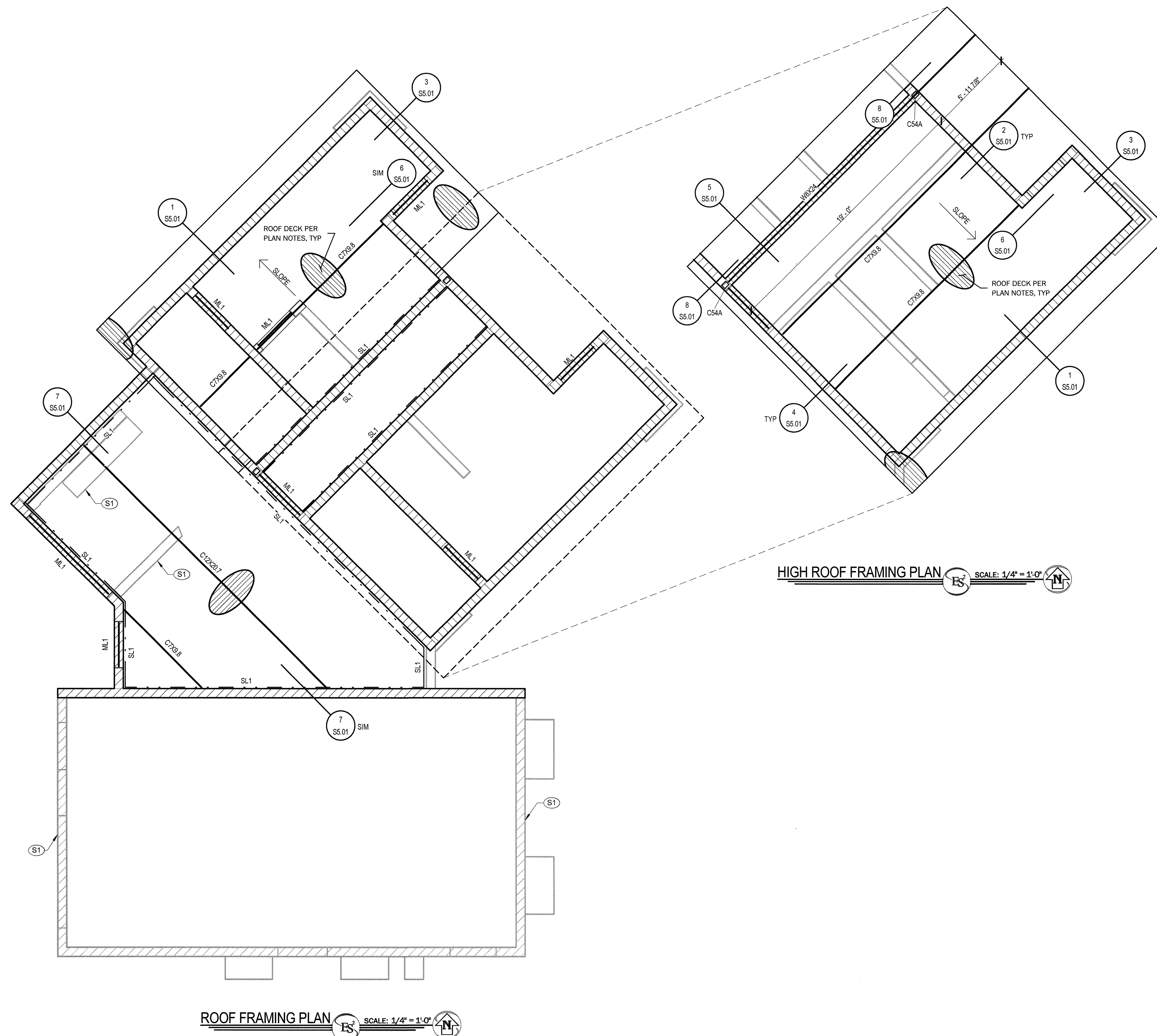
STEEL COLUMN SCHEDULE			
MARK	COLUMN SIZE	BASE PLATE	TYPE
C54A	HSS5X4X3/8	PER DETAIL	

FRAMING

- A. TYP ROOF DECKING SHALL BE HSB 20 GA x1 1/2" DEEP STEEL ROOF DECK. ROOF DECK ATTACHMENTS SHALL BE AS FOLLOWS UNO PER "TYPICAL STEEL DECK ATTACHMENT" DETAIL: (7) 1/2" Ø PUDDLE WELDS PER SHEET AT ENDS AND END LAPS. 1/2" Ø PUDDLE WELDS AT 8" O.C. AT PERIMETER SUPPORTS, EDGES OF OPENINGS PARALLEL W/ DECK NOTED ON PLANS, AND INTERMEDIATE SUPPORTS. SIDE SEAM ATTACHMENTS SHALL BE BUTTON PUNCHES AT 24" O.C.
 - B. "B.O. DECK" INDICATES B.O. STEEL DECK ELEV. VERIFY ALL ELEV W/ ARCH DRW.
 - C. OPENINGS IN DECK PER "TYPICAL OPENING IN ROOF/FLOOR" 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 DISCREPANCIES W/ ARCHITECTS.
 - C. ADDL MECH OPENINGS IN DECK OR WALLS NOT SHOWN SHALL BE COORDINATED W/ THE ENGINEER PRIOR TO PENETRATING STRUCTURE.
 - D. ROOF SLOPE SHALL BE VERIFIED WITH ARCH DWGS.
 - E. "RME" INDICATES ROOF MOUNTED EQUIPMENT. JOIST/TRUSS MFR SHALL DESIGN JOISTS/TRUSSES FOR WT AS INDICATED ON PLANS (WHICH INCLUDES MAX OPERATING WT PLUS 100# CURB ALLOWANCE). PROVIDE FRAMING BELOW RME PER "TYPICAL OPENING AT SUPPORT FOR RME" DETAIL AND AROUND ROOF OPENING PER TYP DETAIL. FRAMING NOT SHOWN ON PLAN FOR CLARITY.

KEYNOTES

- S1 EXISTING MASONRY WALL TO REMAIN





ENGINEERING SYSTEM SOLUTIONS
STRUCTURAL - MEP - BUILDING COMMISSIONING
www.es2zeng.com
BUILDING RELATIONS
17014

CONSULTANT

1965 NORTH 29TH LANE STE 310
PHOENIX (602) 955-9874
BIRMINGHAM (205) 552-9874

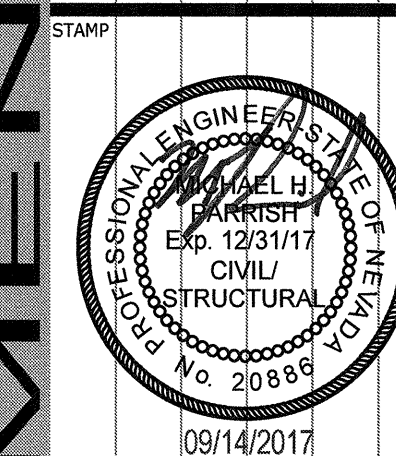
777 RIVERDALE ST. #101
PHOENIX (602) 780-2020

1635 N SANCHO DRIVE
PHOENIX (602) 616-6107

HERNANDEZ, DRAGAGE AND DASSIENS (AIE) THE RACE LABOR GROUP

HERNANDEZ, DRAGAGE AND DASSIENS (AIE) THE RACE LABOR GROUP

BASKIN PARK
RENOVATION



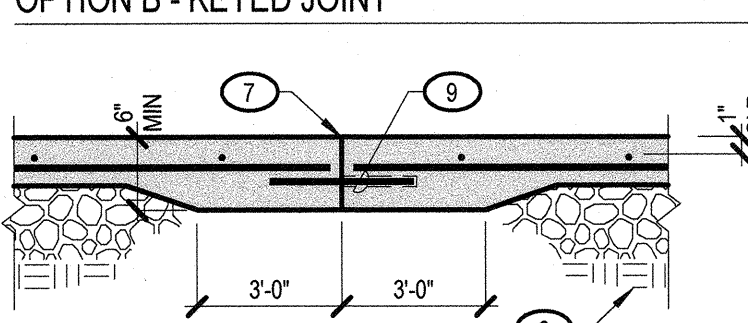
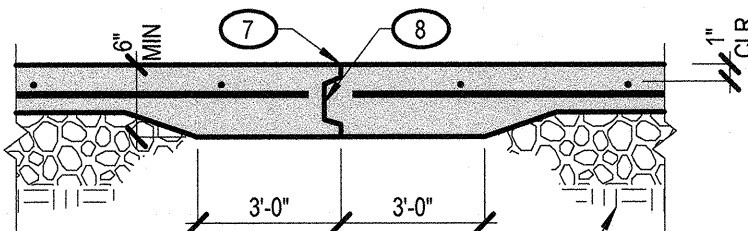
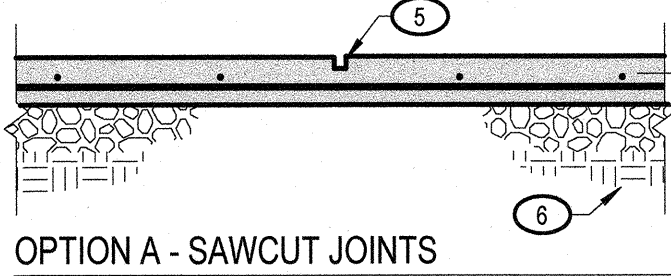
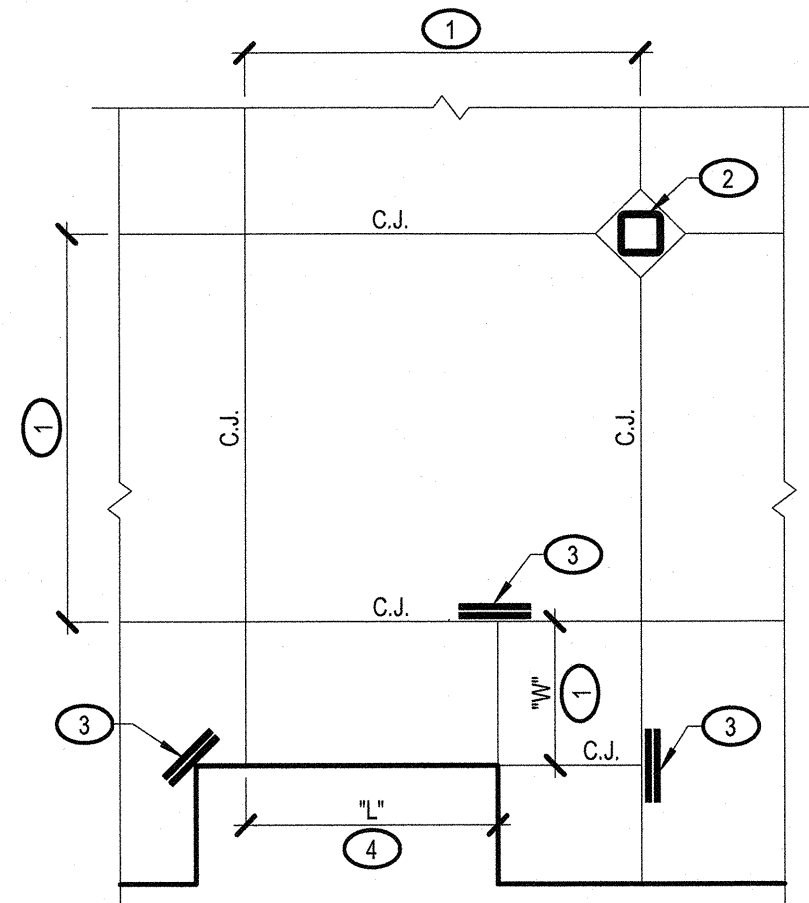
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

DEVELOPMENT SERVICES CENTER
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6277
FAX: (702) 384-4841

DRAWN	FBM/EN		
FILE	17.2014		
DATE	09.07.2017		
SCALE	1/4" = 1'-0"		
BID NO			
CLV DWG NO			
SHT NO			

S2.02

PLANS APPROVED
SIXING STRUCTURAL
City of Las Vegas, Wash.
NMM SEP 14 2017
Does Not Include Electrical Antitheft,
Pump/Inlets, Hardware for Outside
Walled, Hardware for Outside
and a permit to install any of these



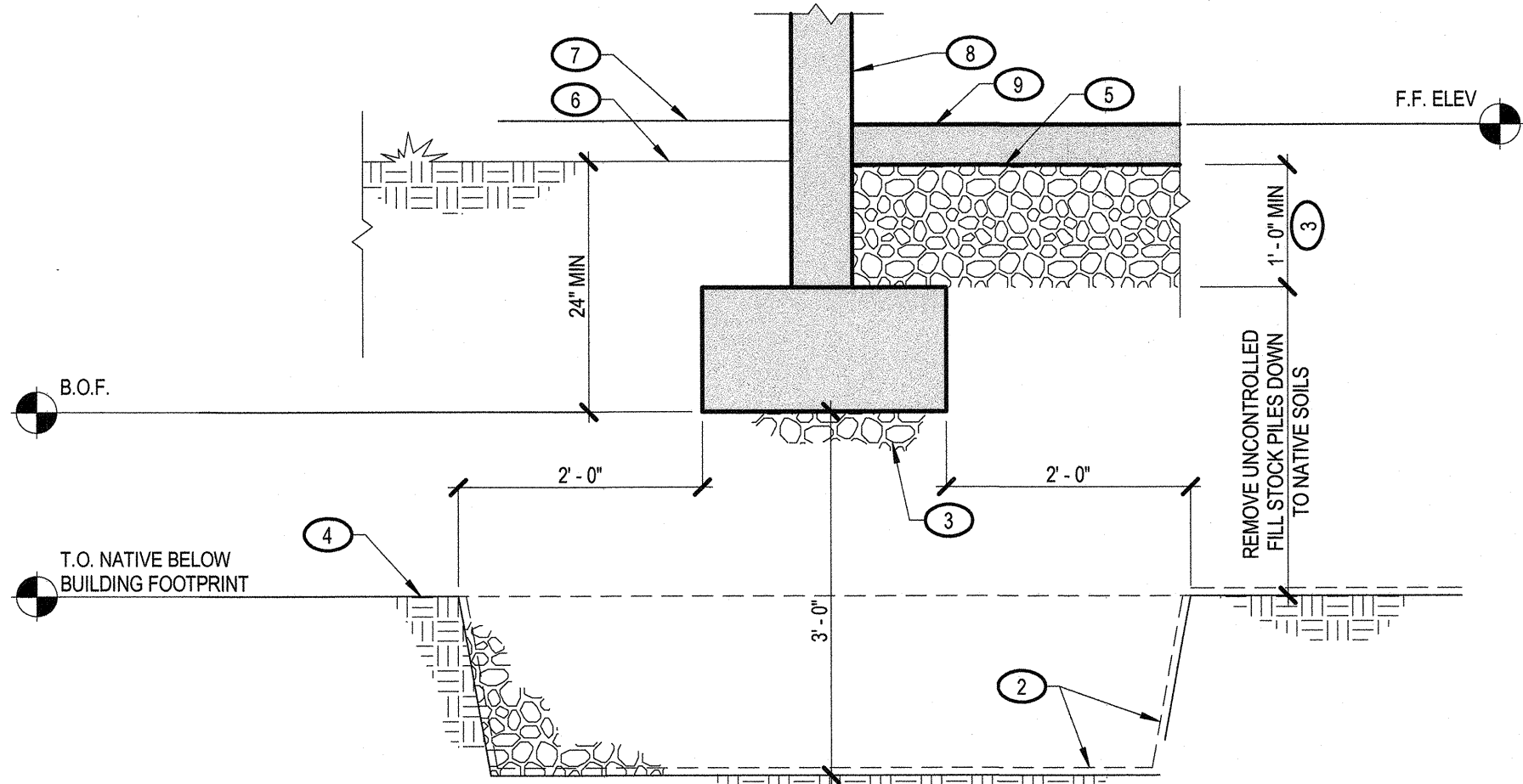
1 TYPICAL CONTROL JOINT IN CONCRETE SLAB ON GRADE
TDC301

KEYNOTES:

1. COMPETENT NATIVE SOILS AS DETERMINED BY GEOTECHNICAL ENGINEER
2. DASHED LINE INDICATES GEOTEXTILE MEMBRANE (MIRAFI 600X OR APPROVED EQUAL). MEMBRANE SHALL BE PLACED AT THE BOTTOM AND SIDES OF THE OVER-EXCAVATION PRIOR TO PLACEMENT OF STRUCTURAL FILL.
3. PROPERLY COMPACTED No. 200 SIEVE FILL.
4. ALL UNCONTROLLED FILL STOCK PILES SHALL BE REMOVED FROM SITE. DOWN TO NATIVE SOILS.
5. WATER VAPOR RETARDER SYSTEM ABOVE THE No. 200 SIEVE LAYER BELOW ALL FLOOR SLABS
6. FINAL COMPACTED GRADE
7. EXTERIOR FLATWORK
8. STRUCTURE WALL
9. INTERIOR SLAB ON GRADE

NOTES:

1. THIS DETAIL OCCURS ONLY AT A SPECIFIC POINT ON THE SITE AND IS PROVIDED FOR GENERAL REFERENCE ONLY
2. SEE OVERALL GRADING PLAN AND TOPOGRAPHIC MAP
3. 1' - 0" MIN OF No. 200 SIEVE FILL PER KEYNOTE 3 DOES NOT NEED LAY ENTIRELY ABOVE TOP OF FOOTING



2 TYPICAL OVER-EXCAVATION AND SUBGRADE PREPARATION DETAIL
S3.02

PLANS APPROVED
STRUCTURAL
Building & Construction
City of Las Vegas, Nevada
MM SEP 14 2017
Does not indicate Electrical, Architectural,
Mechanical, or other trades work.
Not a Permit to Violate Any Ordinance.

KEYNOTES:

1. JOINT SPACING PER SCHED
2. ALIGN CONTROL JOINTS W COL (WHERE OCCURS)
3. PROVIDE (2) #4x48 MID-HT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS
4. WHERE CONTROL JOINT SECTIONS ARE RECTANGULAR, THE LENGTH "L" SHALL NOT EXCEED 1.5 TIMES THE WIDTH "W"
5. SAWCUT JOINT DEPTH EQ TO 1/4 SLAB THICKNESS
6. COMPACTED SUBGRADE PER 'TYPICAL OVER-EXCAVATION AND SUBGRADE PREPARATION DETAIL'
7. CONSTRUCTION JOINT
8. 2x4 CONT TAPERED KEY
9. 1/2"x12" SMOOTH DOWEL AT 24" O.C. WRAP TO PREVENT BOND TO CONC (CENTER IN SLAB THICKNESS AT JOINT)

NOTES:

- A. C.J. DENOTES CONTROL JOINT
- B. USE DOWELED OR KEYED JOINT AT SLOPE TRANSITIONS IN RAMPS AT CONC SLAB ON GRADE OR CONSTRUCTION JOINTS
- C. SAWCUTS SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING
- D. ZIP STRIP OR TOOLED JOINT MAY BE USED IN LIEU OF SAWCUT

JOINT SPACING SCHEDULE

SLAB THICKNESS	MAX SPACING
4"	10'
5"	12.5'
6"	15'
7"	17.5'
8"	18'

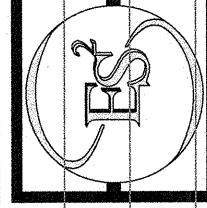


REVISIONS

NO.	DESCRIPTION	DATE

CONSULTANT

ENGINEERING SYSTEM SOLUTIONS STRUCTURAL - MEP - BUILDING COMMISSIONING www.es2eng.com BUILDING RELATIONS EXCEEDING EXPECTATIONS JOB NUMBER: 17.2014 4943 NORTH 29TH EAST, STE. A LAS VEGAS, NV 89116 PHONE: (702) 461-8107 FAX: (702) 461-8107 STEELE, JANE, CHAIRMAN AND PERSONS ARE THE EXCLUSIVE PROPRIETORS OF ENGINEERING SYSTEM SOLUTIONS AND SHALL NOT BE REPRODUCED IN ANY FORM WITHOUT THE WRITTEN CONSENT OF ENGINEERING SYSTEM SOLUTIONS.
--



BASKIN PARK
RENOVATION

TYPICAL CONCRETE DETAILS

STAMP



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

DEVELOPMENT SERVICES CENTER
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6276
FAX: (702) 384-4846

DRAWN	FBM/EN
FILE	17.2014
DATE	09.07.2017
SCALE	3/4" = 1'-0"
BID NO	
CLV DWG NO	
SHT NO	

S3.02

STRUCTURAL STEEL

GENERAL
DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AS CONTAINED IN THE "AISC MANUAL OF STEEL CONSTRUCTION", CURRENT EDITION.

MEMBERS
STRUCTURAL STEEL MEMBERS SHALL CONFORM WITH THE ASTM STANDARDS AND MATERIAL PROPERTIES PER TYPICAL DETAIL "STEEL MEMBERS" ASTM STANDARDS AND PROPERTIES' UNLESS NOTED OTHERWISE.

FABRICATION
SHOP DRAWINGS SHALL SHOW MEMBER LAYOUT, SIZE, LENGTH, BOLT HOLE SIZES AND LOCATIONS, CONNECTION DETAILS, GRADE, AND ERECTION PROCEDURES CONFORMING TO AISC SPECIFICATIONS.

FABRICATORS SHALL BE PRE-QUALIFIED, APPROVED, AND RECOGNIZED BY THE BUILDING OFFICIAL AND CONTRACTOR AS COMPETENT TO COMPLETE REQUIRED FABRICATED ITEMS.

WELDING
WELDING PROCEDURES, ELECTRODES, AND WELDER QUALIFICATIONS SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION", AMERICAN WELDING SOCIETY (AWS) AND THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS".

ALL WELDS SHALL USE A FILLER MATERIAL WITH A TENSILE STRENGTH OF 70 KSI.

ALL WELDS INVOLVING REINFORCING BARS SHALL FOLLOW AISC SPECIFICATIONS.

WELDING OR TACK WELDING OF HIGH STRENGTH BOLTS (ASTM A325 OR A490) IS NOT PERMITTED.

ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.

ALL CJP WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE SEISMIC FORCE RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20° F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION. USING 7018 ROD FULFILLS THIS REQUIREMENT.

FOR ALL WELDS REQUIRING CONTINUOUS INSPECTION, FABRICATOR OR ERECTOR SHALL SUBMIT A WELDING PROCEDURE TO THE ENGINEER.

BOLTING
ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHTENED AS DEFINED PER AISC UNLESS NOTED OTHERWISE IN DRAWINGS. SEE DRAWINGS FOR BOLTS THAT ARE REQUIRED TO BE PRE-TENSIONED OR SLIP CRITICAL AS DEFINED PER AISC. ALL BOLTS SHALL BE INSTALLED USING AN APPROVED AISC PROCEDURE.

MEMBER	DESIGNATION	GRADE (Fy)
W SHAPE AND STRUCTURAL TEE	ASTM A992 GRADE 50	50 KSI
CHANNELS, TEES, AND ANGLES	ASTM A36	36 KSI
BARs AND PLATES	ASTM A36	36 KSI
STRUCTURAL PIPE	ASTM A53 (GRADE B)	35 KSI
HSS (RECTANGULAR TUBE)	ASTM A500 (GRADE B)	46 KSI
HIGH STRENGTH BOLTS	ASTM A325-N	-
NUTS	ASTM A563	-
HARDENED STEEL WASHERS	ASTM F436	-
LOAD INDICATOR WASHER	ASTMF989	-
ANCHOR BOLTS (ANCHOR RODS)	ASTM F1554 (W/ WELDABILITY SUPPLEMENT S1)	36 KSI
MACHINE BOLTS	ASTM A307	-
HEADED STUDS	ASTM A108 (TYPE B)	-
THREADED ROD	ASTM A36	36 KSI
OTHER STRUCTURAL STEEL	ASTM A36	36 KSI

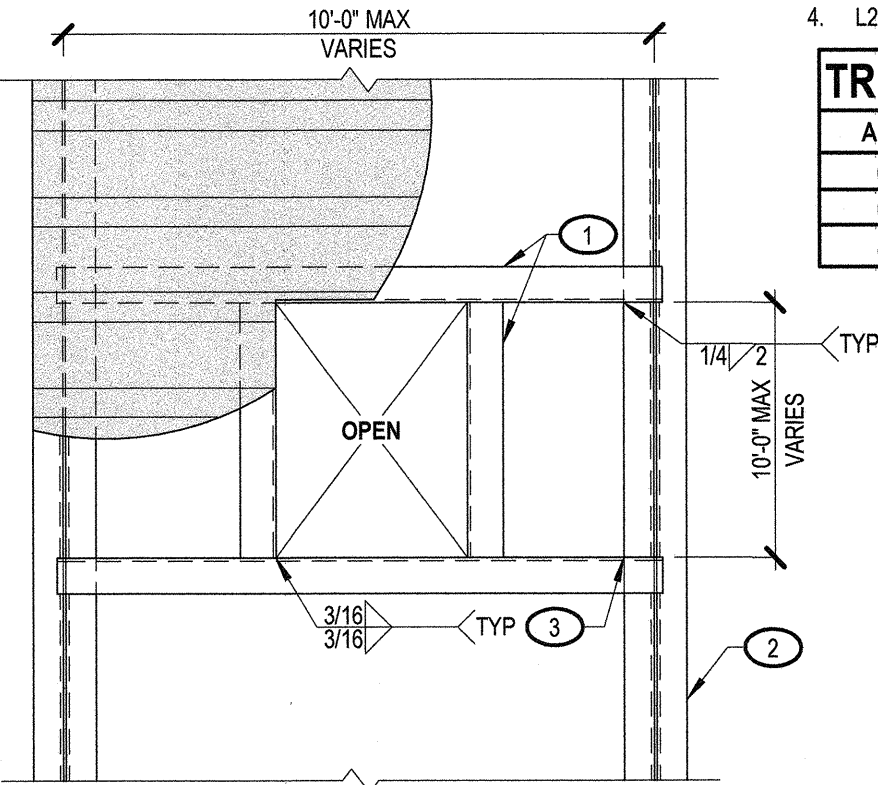
STEEL MEMBER ASTM STANDARDS AND PROPERTIES

S3.05 TDS101

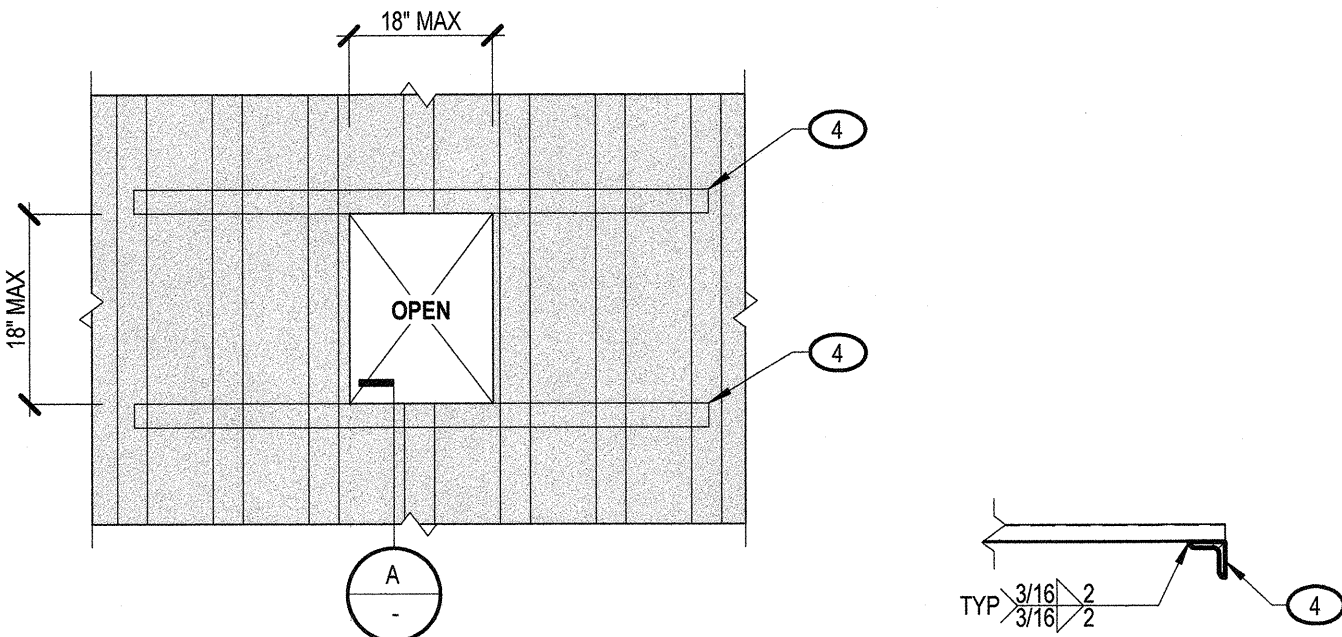
KEYNOTES:

1. TRIM ANGLE PER SCHED
2. FRAMING MEMBER PER PLAN
3. COPE VERT LEG AT FRAMING MEMBER
4. L2x2x3/16 EXTEND 18" BEYOND OPENING EDGE

ANGLE LENGTH	ANGLE SIZE
0' - 0" TO 8' - 0"	L3x3x1/4
8' - 1" TO 8' - 0"	L4x3x1/4 LLV
8' - 1" TO 10' - 0"	L5x3x1/4 LLV



TYP LARGE OPENING IN DECK



TYP SMALL OPENING IN DECK (18" SQUARE MAX)

SECTION A

TYPICAL OPENING IN ROOF/FLOOR DECK

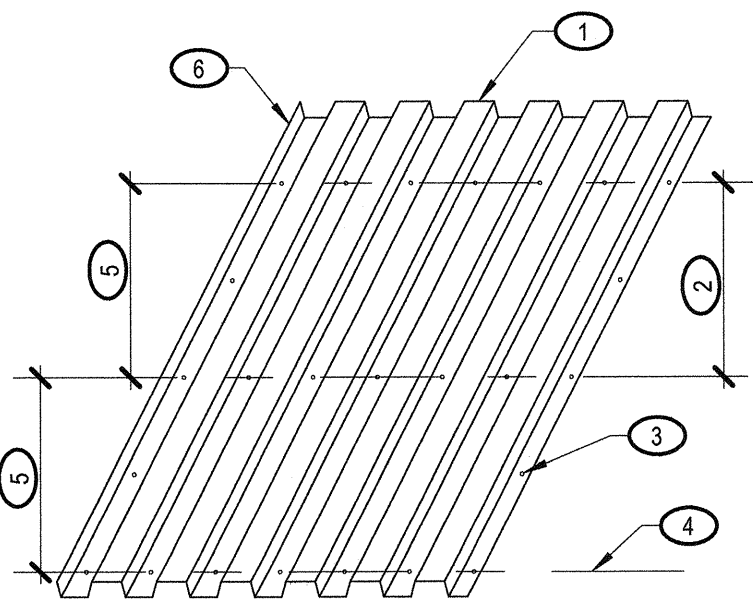
S3.05 TDS202

KEYNOTES:

1. STEEL DECK PER PLAN
2. CENTERLINE OF INTERMEDIATE SUPPORT PER PLAN
3. DECK ATTACHMENT AT PERIMETER SUPPORTS, TYPE AND SPACING PER PLAN
4. CENTERLINE OF END SUPPORT PER PLAN
5. DECK ATTACHMENT, TYPE AND SPACING PER PLAN
6. SIDE SEAM, ATTACH PER PLAN

NOTES:

- A. DECK ATTACHMENTS SHOWN MAY BE SPOT WELDS, SCREWS, OR SHOT PINS



TYPICAL STEEL DECK ATTACHMENT

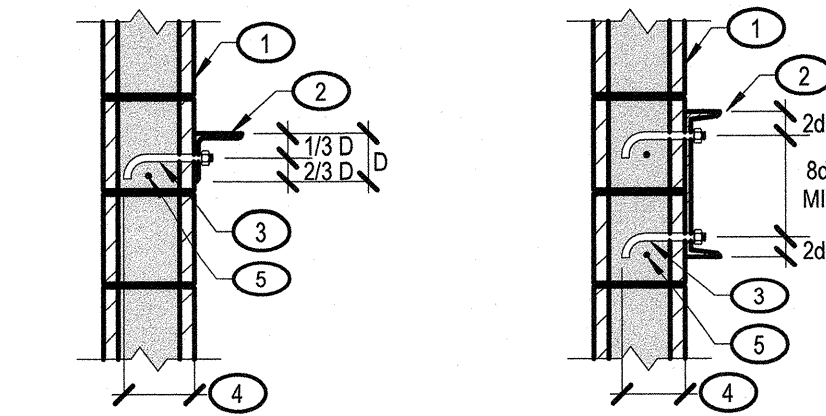
S3.05 TDS204

KEYNOTES:

1. WALL PER PLAN
2. STEEL LEDGER MEMBER PER SCHED
3. ANCHORAGE PER SCHED
4. EMBED PER SCHED
5. CONT #4 HORIZ

NOTES:

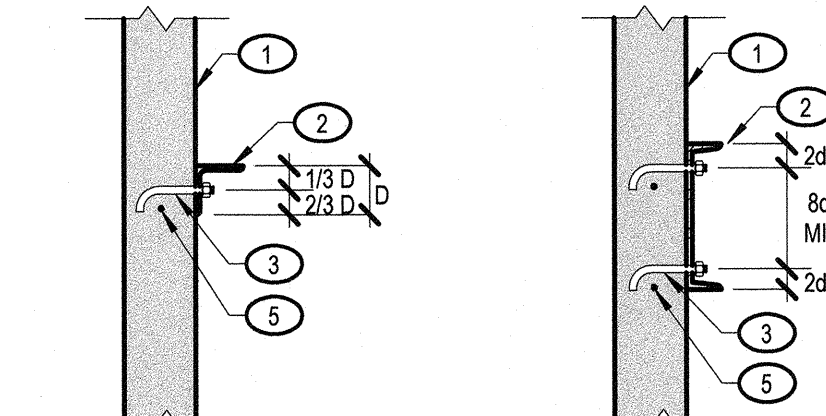
- A. "db" INDICATES DIA OF ANCHOR



SINGLE ROW BOLTS

DOUBLE ROW BOLTS

MASONRY



SINGLE ROW BOLTS

DOUBLE ROW BOLTS

CONCRETE

LEDGER SCHEDULE				
MARK	MEMBER	CONNECTION	CAPACITY (PLF)	
			VERTICAL	HORIZONTAL
SL1	3x3x3/16" BENT PL	1/2" Øx3" EMBED HSA AT 16" O.C.	365	725

TYPICAL STEEL LEDGER AT MASONRY/CONCRETE WALL

S3.05 TDS105

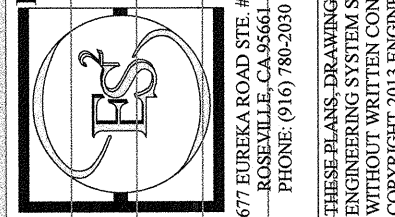


REVISIONS

NO.	DESCRIPTION	DATE

CONSULTANT

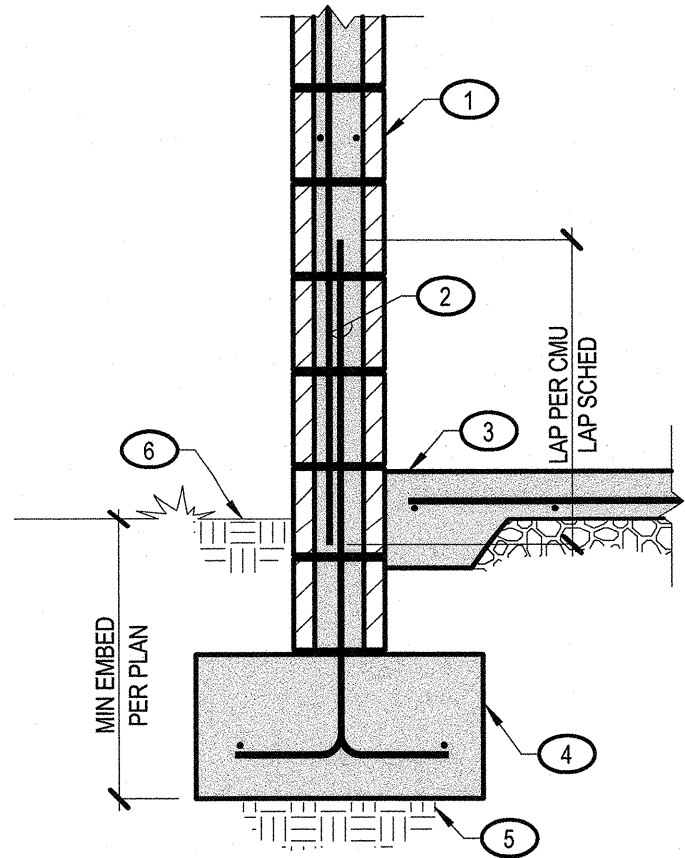
www.ec2eng.com
BUILDING RELATIONSHIPS
EXCEEDING EXPECTATIONS
JOB NUMBER: 17.2014
1441 NORTH 29TH EAST, STE. A
LAS VEGAS, NV 89166
PHONE: (702) 228-1558
FAX: (702) 228-1558
ENGINEERING SYSTEM SOLUTIONS
STRUCTURAL - MEP - BUILDING COMMISSIONING
CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
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DEVELOPMENT SERVICES CENTER
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 228-6276
FAX: (702) 384-4846
DRAWN: FBM/EN
FILE: 17.2014
DATE: 09.07.2017
SCALE: 3/4" = 1'-0"
CLV DWG NO
SHT NO



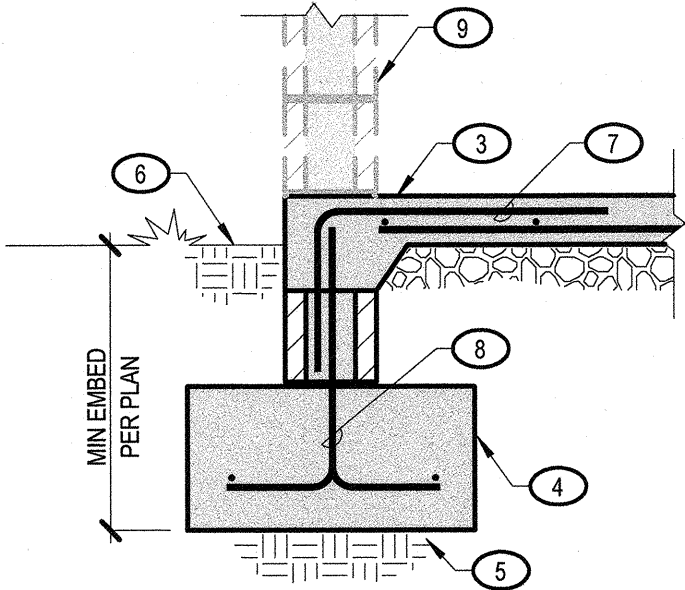
BASKIN PARK
RENOVATION

TYPICAL STEEL DETAILS

PLANS APPROVED
STRUCTURAL
Building & Safety Dept.
City of Las Vegas, Nevada
NMM: SEP 14 2017
Does Not Include
Planning/Technical or Pl-Shop
Impressions/Approval/Pl-Shop
Not a Permit to Violate Any Ordinances



AT WALL



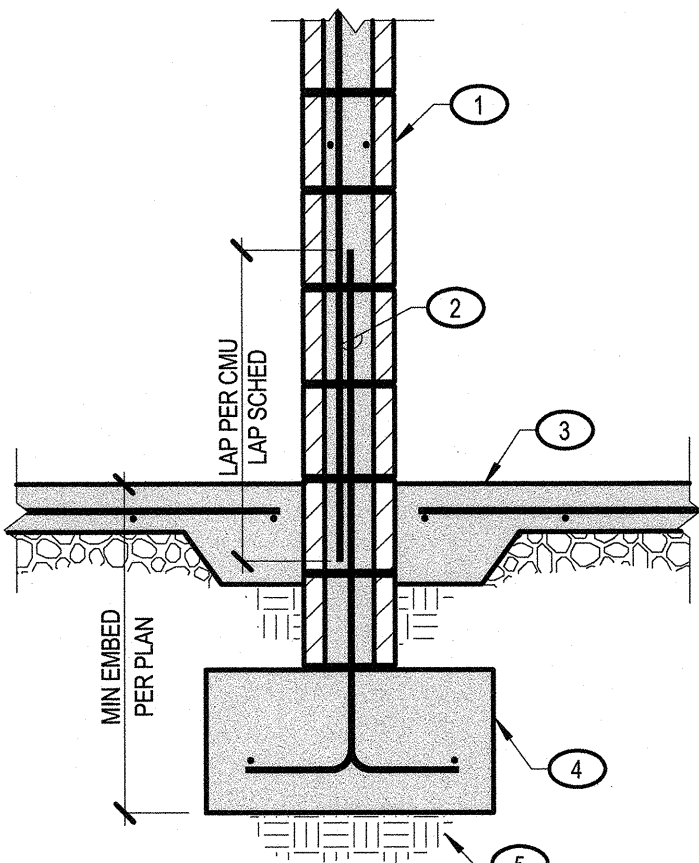
AT OPENING

KEYNOTES:

1. MASONRY WALL PER PLAN
2. #5 DOWEL TO MATCH VERT WALL REINF. CENTERED IN MASONRY WALL W/ STD HOOK AT BOT
3. CONC SLAB ON GRADE AND REINF PER PLAN
4. CONT CONC FTG PER PLAN AND SCHED
5. COMPACTED SUBGRADE PER "TYPICAL OVER-EXCAVATION AND SUBGRADE PREPARATION DETAIL"
6. LOWEST ADJACENT FINAL COMPACTED SUBGRADE
7. #4 DOWELS AT 24" O.C.
8. HOOKED DOWEL TO MATCH AND LAP VERTICAL REINFORCING. ALTERNATE HOOK DIRECTION.
9. WALL BEYOND

1 EXTERIOR MASONRY WALL AT FOUNDATION

S4.01 MC121

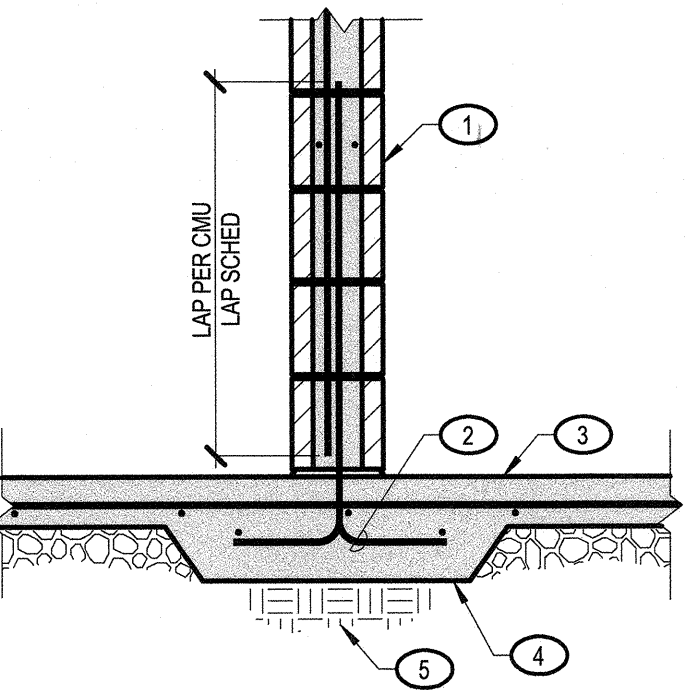


KEYNOTES:

1. MASONRY WALL PER PLAN
2. #5 DOWEL TO MATCH VERT WALL REINF. CENTERED IN MASONRY WALL
3. CONC SLAB ON GRADE AND REINF PER PLAN
4. CONT CONC FTG PER PLAN AND SCHED
5. COMPACTED SUBGRADE PER "TYPICAL OVER-EXCAVATION AND SUBGRADE PREPARATION DETAIL"

2 INTERIOR MASONRY WALL AT FOUNDATION

S4.01 MC104



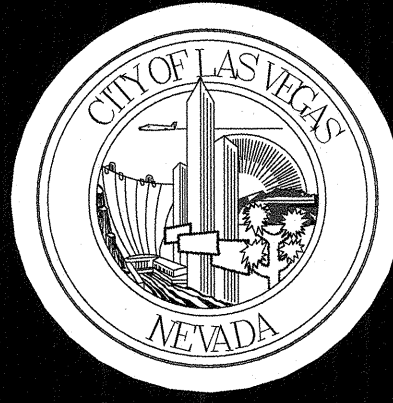
KEYNOTES:

1. MASONRY WALL PER PLAN
2. #5 DOWEL TO MATCH VERT WALL REINF. CENTERED IN MASONRY WALL W/ STD HOOK AT BOT. ALTERNATE HOOK BENDS
3. CONC SLAB ON GRADE AND REINF PER PLAN
4. 12" CONT CONC SLAB
5. COMPACTED SUBGRADE PER "TYPICAL OVER-EXCAVATION AND SUBGRADE PREPARATION DETAIL"
6. LOWEST ADJACENT FINAL COMPACTED SUBGRADE
7. #4 DOWELS AT 24" O.C.
8. HOOKED DOWEL TO MATCH AND LAP VERTICAL REINFORCING. ALTERNATE HOOK DIRECTION.

PLANS APPROVED
STRUCTURAL
Building & Safety Dept.
City of Las Vegas, Nevada
MMW SEP 14 2017
Does not include Electrical, Architectural,
Mechanical, or other disciplines.
Without Approval, Plans are
Not a Permit to Violate any Ordinance.

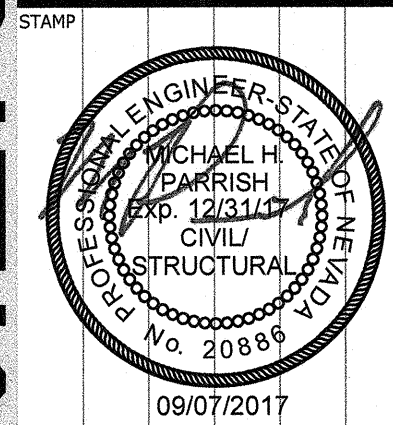
3 NON-BEARING MASONRY WALL AT FOUNDATION

S4.01 MC123



REVISIONS			
CONSULTANT			
ENGINEERING SYSTEM SOLUTIONS			
STRUCTURAL - MEP - BUILDING COMMISSIONING			
www.es2eng.com			
BUILDING RELATIONS			
EXCEEDING EXPECTATIONS			
JOB NUMBER: 17.2014			
677 EUREKA ROAD, STE. #100 3632 N. RANCHO DRIVE 89131 NORTH 29TH EAST, STE. A			
LAS VEGAS, NV 89106 PHONE: (702) 748-2009 PHONE: (702) 748-2017 PHONE: (702) 551-0871			
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BASKIN PARK RENOVATION	
FOUNDATION DETAILS	

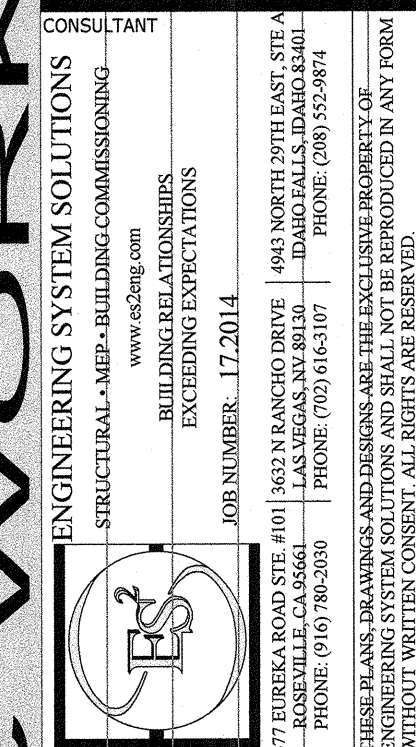
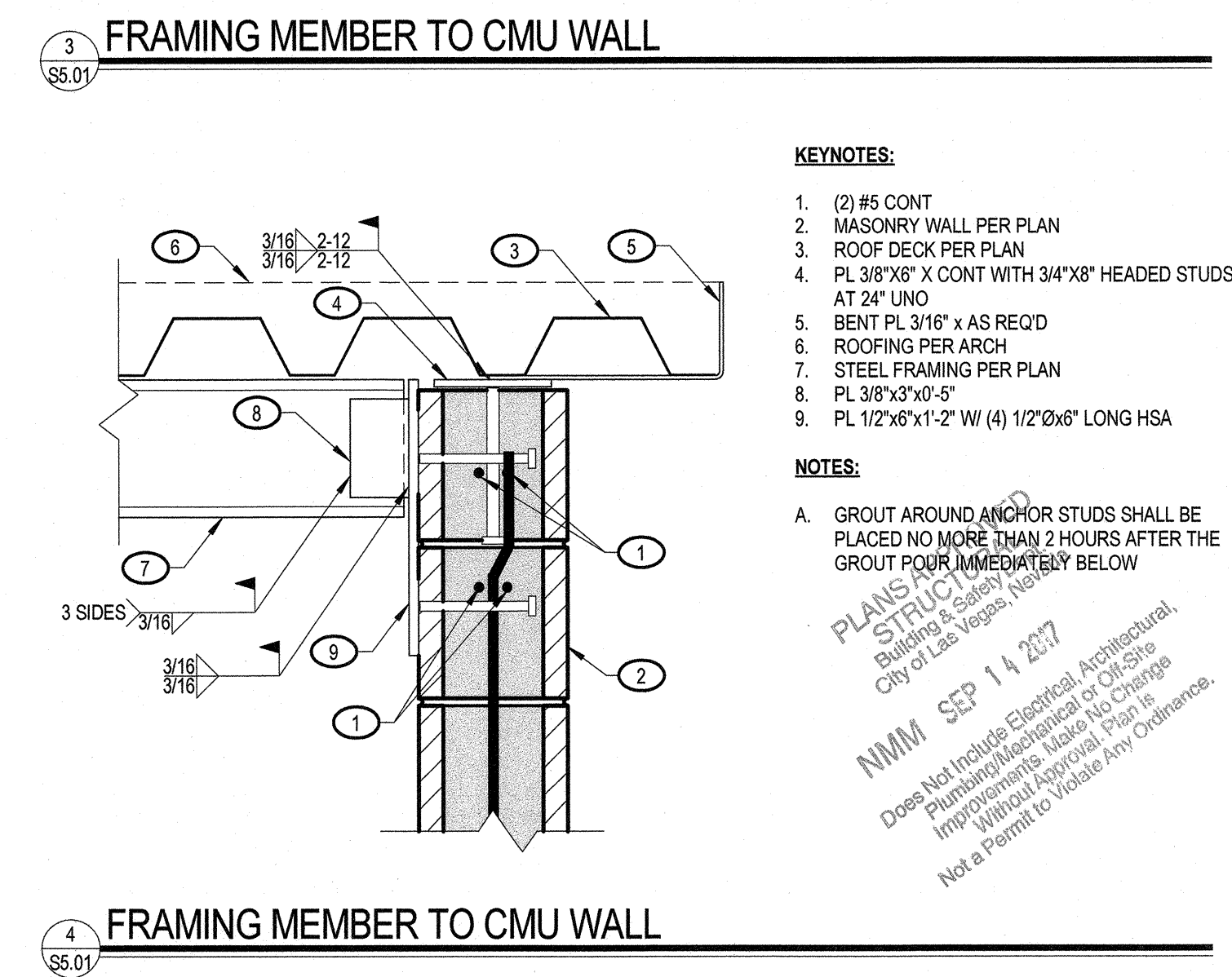
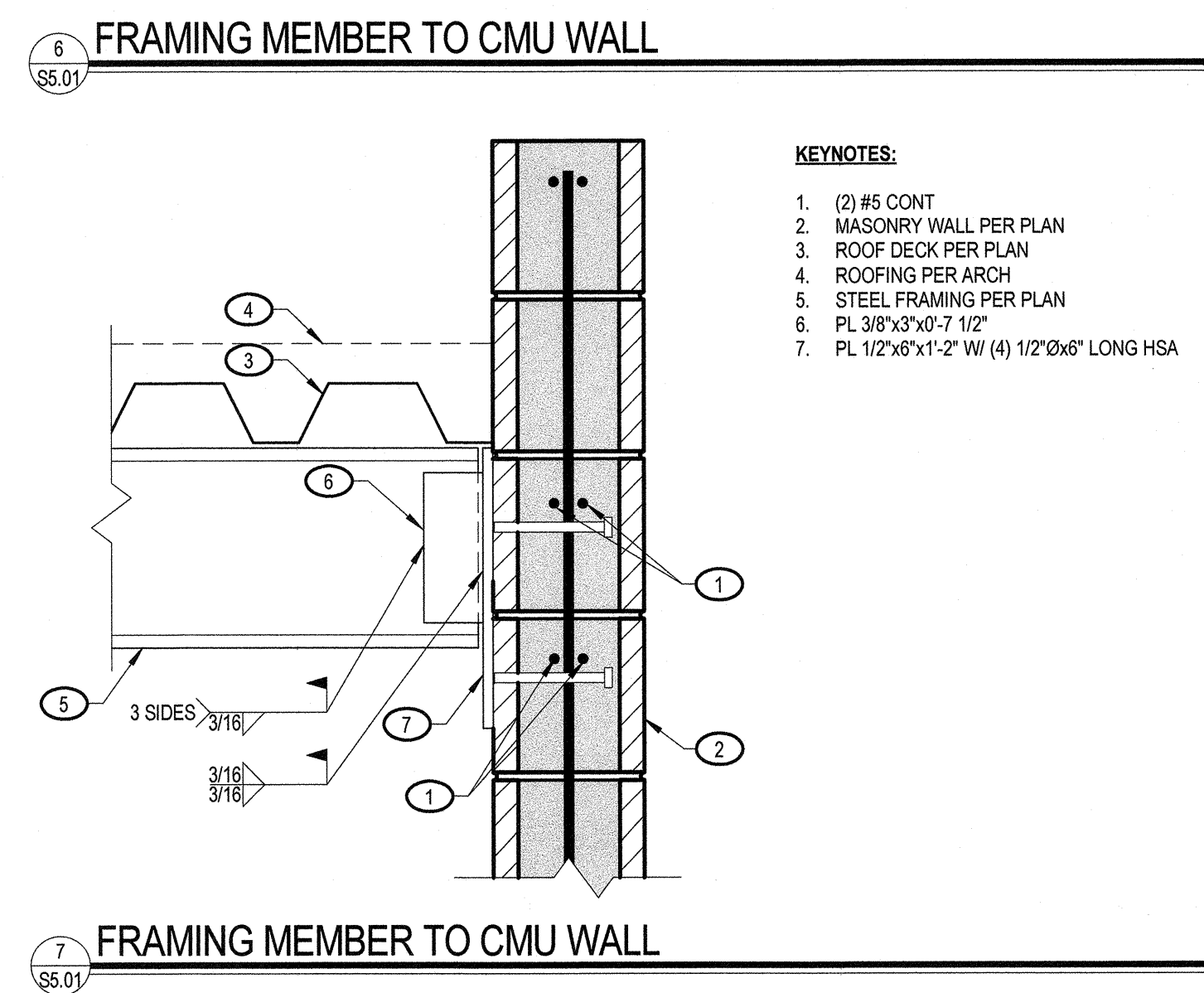
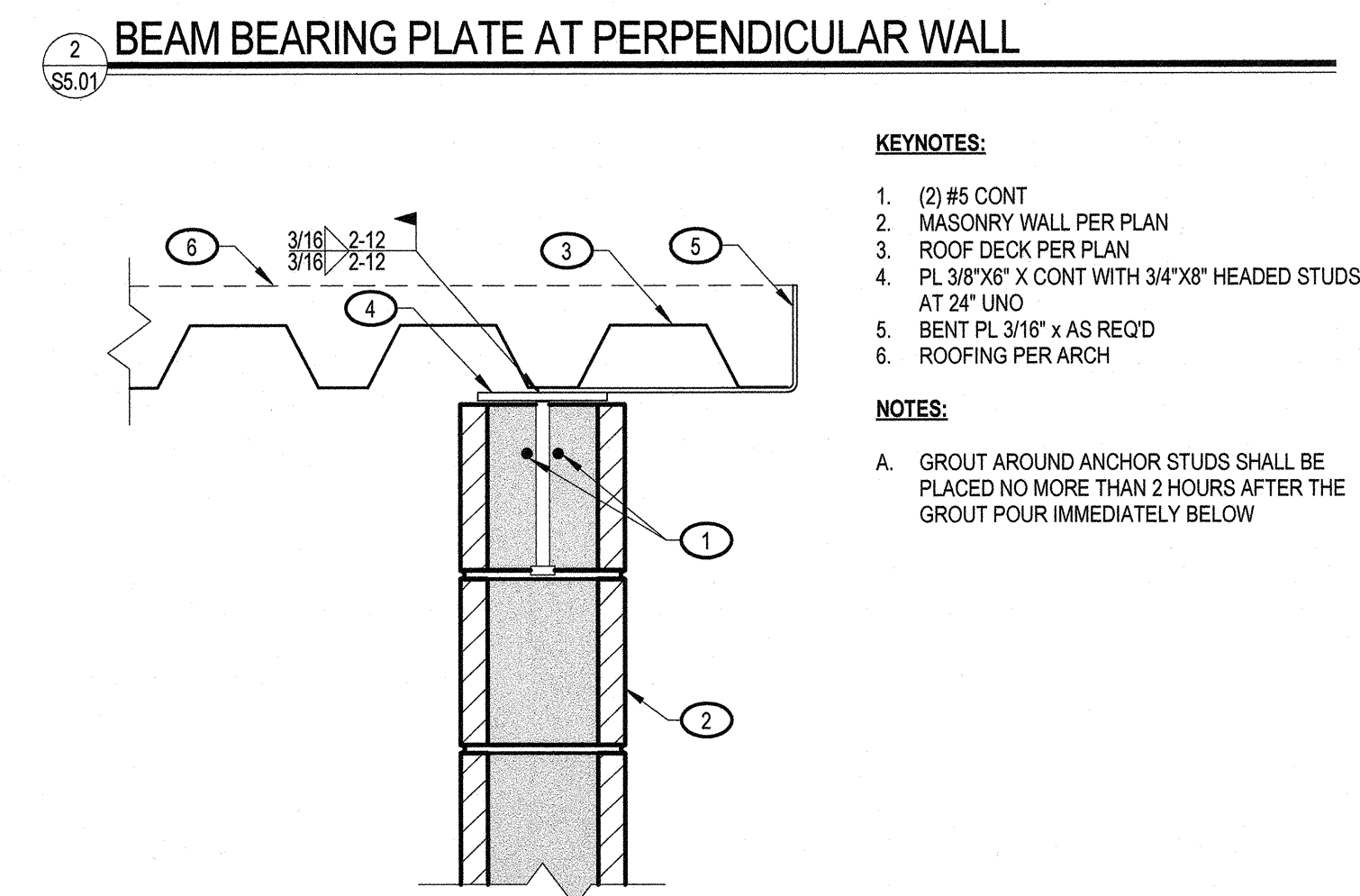
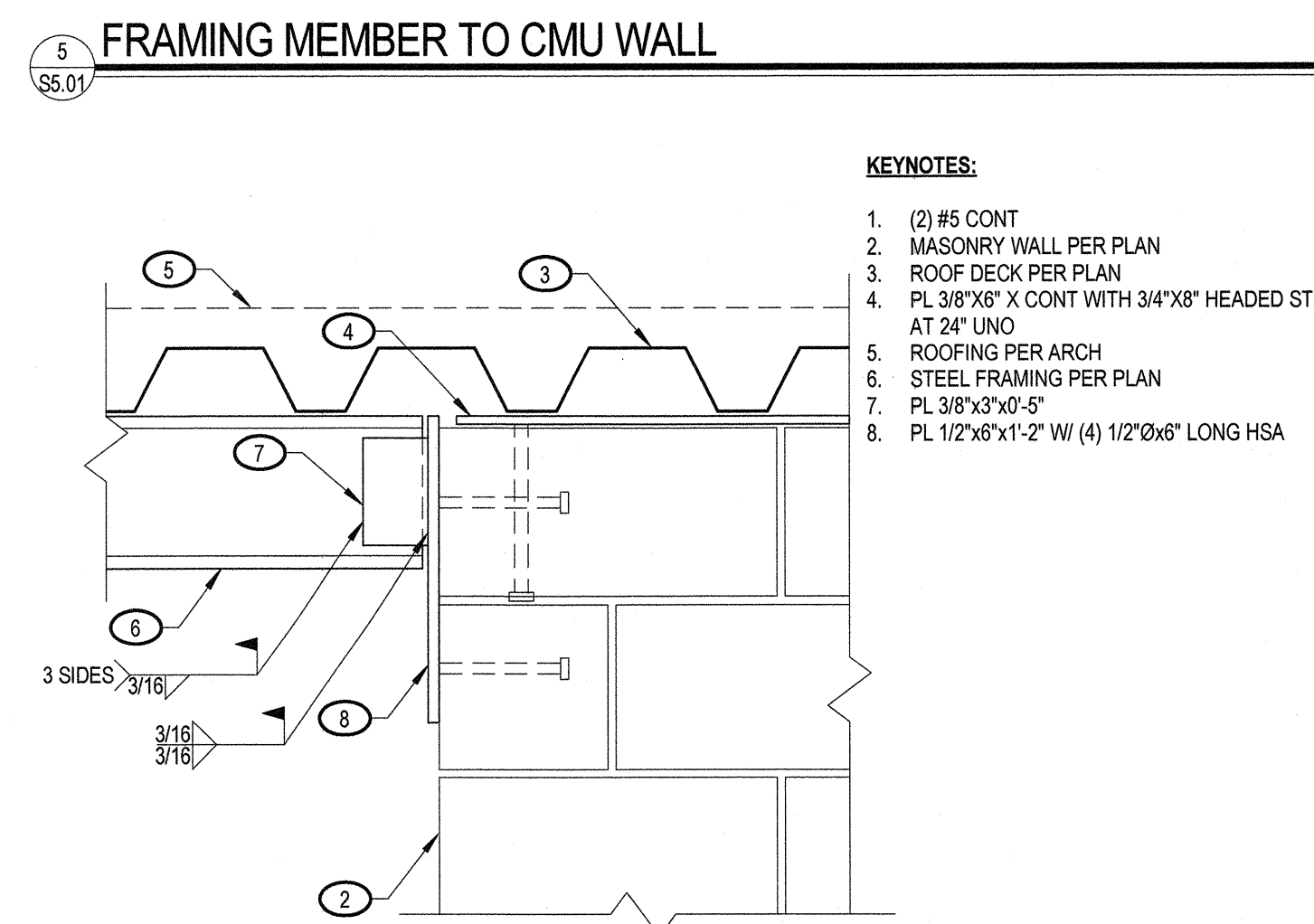
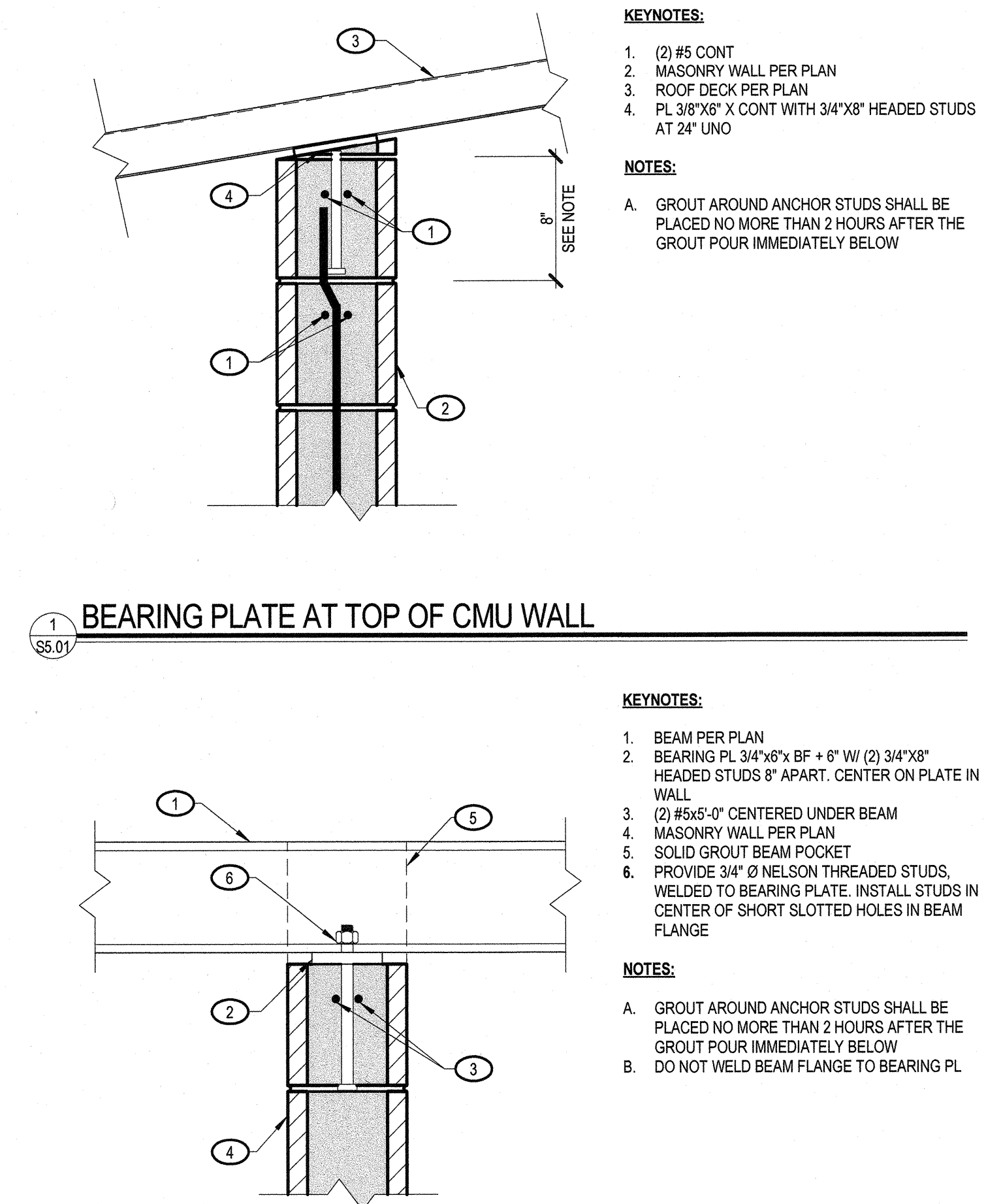
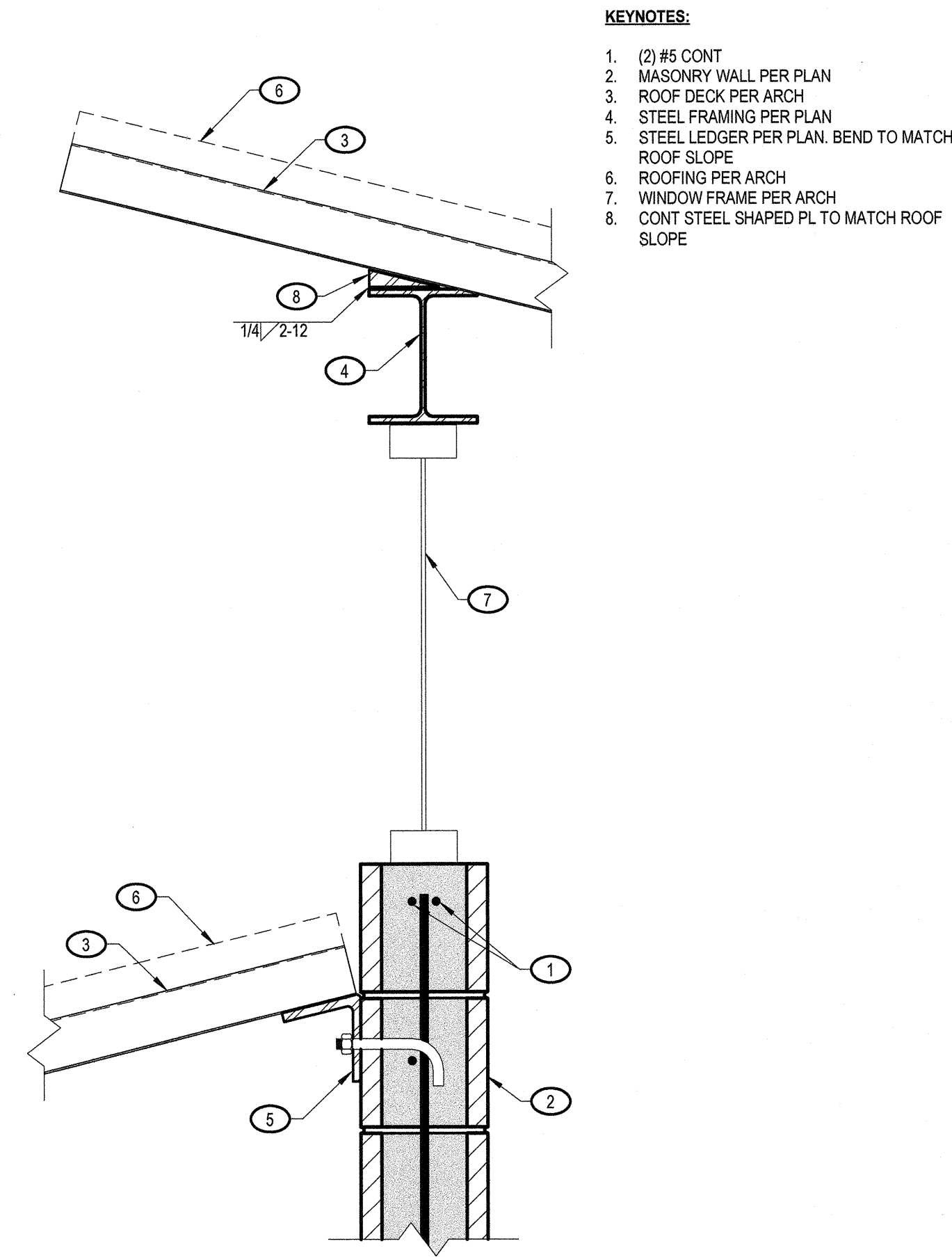


OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

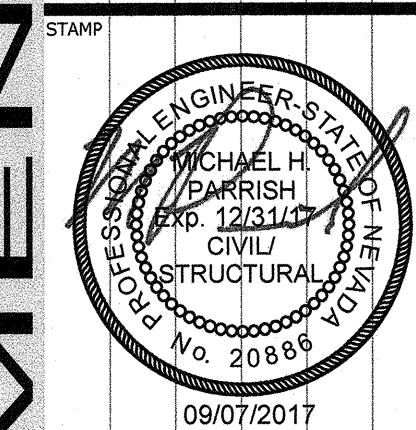
DESIGN SERVICES CENTER
3333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 228-6276
FAX: (702) 384-4846

DRAWN	FBM/EN
FILE	17.2014
DATE	09.07.2017
SCALE	3/4" = 1'-0"
BID NO.	
CLV DWG NO.	
SHT NO.	

S4.01

BASKIN PARK
RENOVATION

ROOF FRAMING DETAILS



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DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

DEVELOPMENT SERVICES CENTER
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6200
FAX: (702) 384-4800

DRAWN	FBM/EN		
FILE	17.2014		
DATE	09.07.2017		
SCALE	As indicated		

SHT NO	S5.01
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