

# ABBREVIATIONS

AC acoustical	GB grab bar	RM room
ACM acoustical mylar	GPBD gypsum board	RB rubber base
AFF above finished floor	HBD hardboard	SLR sealer
AGG aggregate	HDW hardware	SEC section
AL aluminum	HWD hardwood	SHT sheet
BLK block	HT height	SIM similar
BD board	HCW hollow core wood	SCW solid core wood
BRK brick	HM hollow metal	SB splash block
BRZ bronze	INCL include (d), (ing)	SPEC specification (s)
CPT carpet (ed)	INT interior	SS stainless steel
CK caulk (ing)	JT joint	ST stain
CLG ceiling	KIT kitchen	STL steel
CER ceramic	LAM laminate (d)	STN stone
CLR coloring	MTL material (s)	STUC stucco
CT ceramic tile	MES metal edge strip	SYM symmetry (ical)
C concrete	MET metal	SYN synthetic
CMU concrete masonry unit	MISC miscellaneous	TZ terrazzo
CONT continuous or continue	MR moisture resistant	THK thick (ness)
DS downspout	NIC not in contract	THR threshold
DTL detail	NTS not to scale	T&G tongue & groove
DNG drawing	O oil	TXP textured paint
DF drinking fountain	OC on center (s)	TYP typical
ELEC electric (al)	OPP opposite	UNF unfinished
EP epoxy paint	OH overhead	VIN vinyl
EQ equal	P paint (ed)	VCT vinyl composite tile
EWH electric water heater	PNL paneling	WVC vinyl wall covering
EXP exposed	PBD particle board	WSCW wainscot
EXT exterior	PVMT pavement	WRGB water-resistant gyp bd
FAC factory applied finish	PL plaster	W wax
FIN finish (ed)	PLAS plastic	WIN window
FLR floor (ing)	PLAM plastic laminate	WG wired glass
FBO furnished by others	PWD plywood	WD wood
GA gauge	QT quarry tile	
GALV galvanized	REF refrigerator	
GL glass, glazing		

# BUILDING CODES

International Building Code (IBC), 2012 edition  
 International Mechanical Code (IMC), 2012 edition  
 International Plumbing Code (IPC), 2012 edition  
 ADA Standards for Accessible Design, 2010 edition

# CODE INFORMATION

OCCUPANCY CLASSIFICATION - IBC SECTION 304 - BUSINESS GROUP B (LESS THAN 50 OCCUPANTS)  
 OCCUPANT LOAD - IBC TABLE 1004.1.2 BUSINESS, 100 SF GROSS PER OCCUPANT / ACCESSORY EQUIPMENT / STORAGE 300 SF GROSS PER OCCUPANT  
 ALLOWABLE HEIGHT/AREA - IBC TABLE 503 - HEIGHT = 40', ALLOWABLE AREA BUSINESS = 9,000  
 CONSTRUCTION TYPE - IBC TABLE 602.3 TYPE VB  
 EXIT ACCESS TRAVEL DISTANCE - IBC TABLE 1016.1 - MAXIMUM TRAVEL DISTANCE FOR NON-SPRINKLED = 200'  
 EGRESS WIDTH PER OCCUPANT SERVED - IBC TABLE 1005.3.2 = STAIRWAYS 0.3"/OTHER 0.2" PER OCCUPANT

# BUILDING DATA

BUILDING ADDITION: 253 SF AT 300 SF PER OCCUPANT = 1 OCCUPANT  
 EXISTING BUILDING FIRST FLOOR: 439 SF PER OCCUPANT AT 100 SF PER OCCUPANT = 5 OCCUPANTS  
 EXISTING BUILDING SECOND FLOOR: 439 SF AT 300 SF PER OCCUPANT = 2 OCCUPANTS  
 TOTAL BUILDING: 1,130.5 SF TOTAL WITH 8 OCCUPANTS TOTAL  
 TOILET BUILDING HEIGHT: 20'-11"

# DRAWING INDEX

COVER DRAWING	REV. NO.	REV. DATE
A0.1 CODES AND INFO	2	5/18/2018
<b>ARCHITECTURAL</b>		
A2.1 FLOOR PLAN	2	5/18/2018
A3.1 BUILDING ELEVATIONS	0	2/9/2018
A3.2 BUILDING SECTIONS	0	2/9/2018
A5.1 OPENINGS	0	2/9/2018
A8.2 WALL SECTIONS	0	2/9/2018
<b>STRUCTURAL</b>		
S2.1 FOUNDATION PLAN	0	2/26/2018
S2.2 ROOF FRAMING PLAN	0	2/26/2018
<b>PLUMBING</b>		
P1.0 PLUMBING FLOOR PLAN	0	2/14/2018
P2.0 PLUMBING SCHEDULES	0	2/14/2018
<b>MECHANICAL</b>		
M1.0 MECHANICAL FLOOR PLAN	0	2/14/2018
<b>ELECTRICAL</b>		
E1.1 ELECTRICAL SITE PLAN, SITE DETAILS	0	2/9/2018
E2.1 FLOOR PLANS, LEGEND, NOTES, DETAILS, SCHEDULES	0	2/9/2018
E3.1 RISER DIAGRAM, SPECIFICATIONS, ENERGY CODE COMPLIANCE	0	2/9/2018

# GRAPHIC SYMBOLS

AREA NUMBER: 201

DOOR NUMBER: 3

WINDOW NUMBER: 100

ROOM AND SPACE NUMBER: 12a

TOILET ACCESSORIES: 1

EQUIPMENT: 1

REVISIONS: 2

WALL TYPE: 2

REFERENCE GRID: A

SECTION NUMBER: 6

SECTION REFERENCE: A8.1

SHEET NUMBER WHERE DRAWN: 6

DETAIL NUMBER: A

DETAIL REFERENCE: A9.2

SHEET NUMBER WHERE DRAWN: A

ELEVATION NUMBER: 1

INTERIOR ELEVATION INDICATOR: 4 A3.3 2

SHEET NUMBER WHERE DRAWN: 4

DETAIL NUMBERS: 12

WALL TYPES: A9.1

SHEET NUMBER WHERE DRAWN: 12

EARTH: [Symbol]

ROUGH WOOD: [Symbol]

BATT OR BLOWN-IN INSULATION: [Symbol]

STONE FILL: [Symbol]

FINISH WOOD: [Symbol]

RIGID INSULATION: [Symbol]

CONCRETE: [Symbol]

PLYWOOD: [Symbol]

GYPSUM BOARD: [Symbol]

CONCRETE BLOCK: [Symbol]

STEEL (LARGE SCALE): [Symbol]

ACOUSTICAL TILE: [Symbol]

BRICK: [Symbol]

STEEL (SMALL SCALE): [Symbol]

MARBLE: [Symbol]

# APPROVAL STAMPS

## ARCHITECT

Jerry W. Reynolds  
 architect

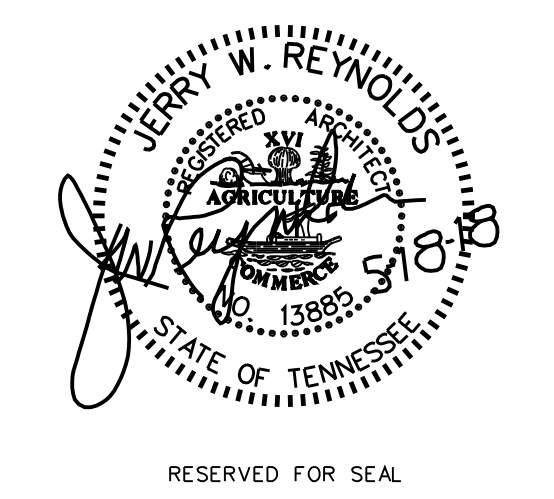
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 904 WEST CYNTHIA TRAIL  
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## CONSULTANTS



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LOCAL PARK AND RECREATION FUND  
 THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
 RESTROOM / EQUIPMENT BUILDING  
**PEAY PARK SPLASH PAD**  
 GOODLETTSVILLE, TENNESSEE

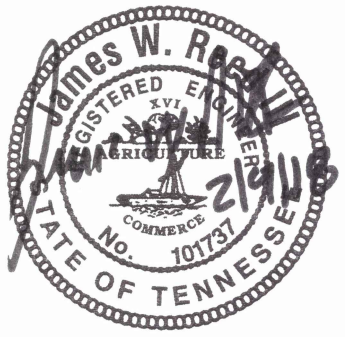
PROJECT INFORMATION

NO. DATE	BY	REVISION
DRAWN BY	JERRY W. REYNOLDS	
DESIGNED BY	JERRY W. REYNOLDS	
APPROVED BY		
JOB NO.	517A556	
DATE	2/9/2018	
SCALE	NOT TO SCALE	

CODES AND INFO

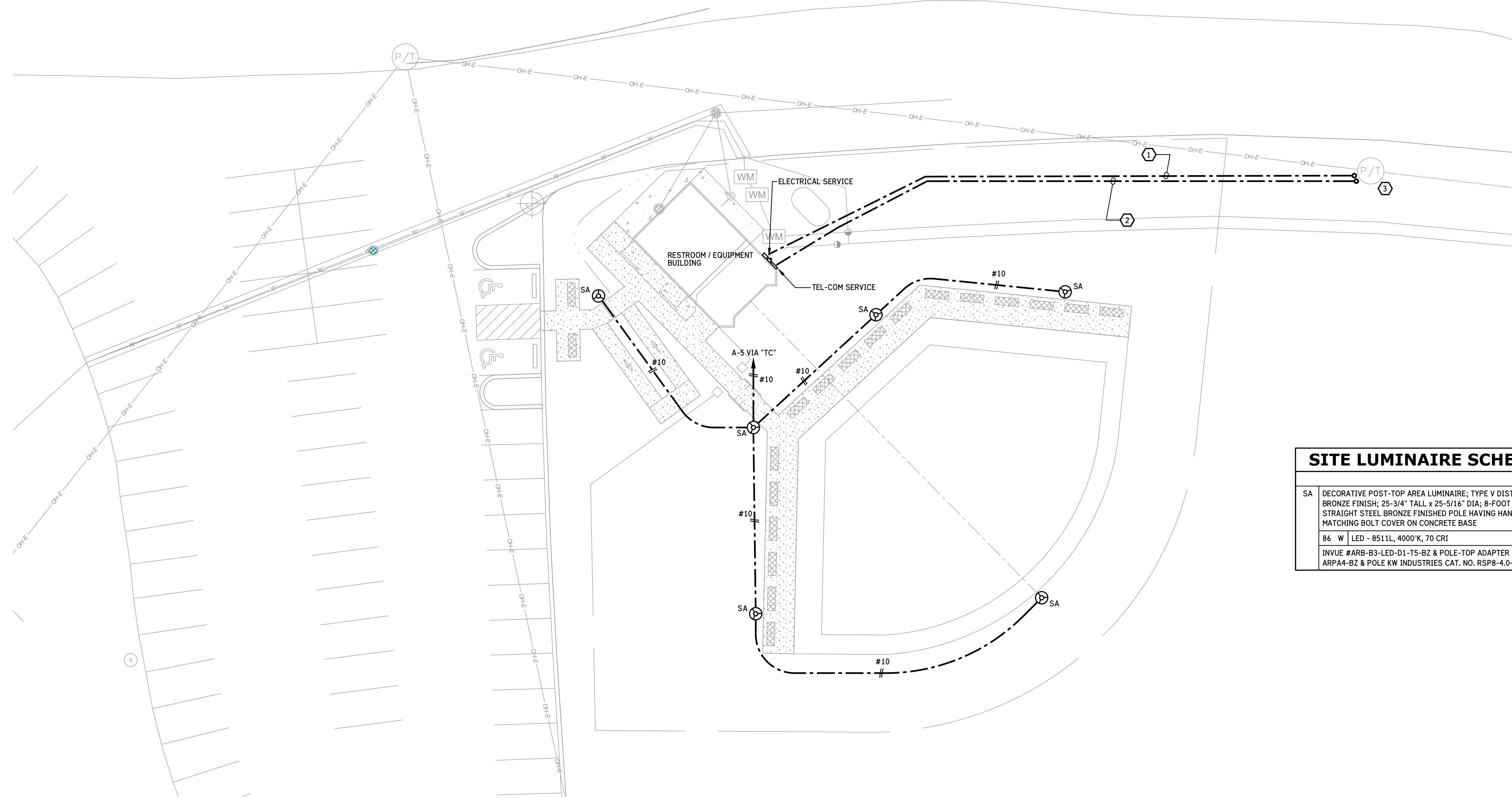
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**A0.1**  
 CADD FILE NO.



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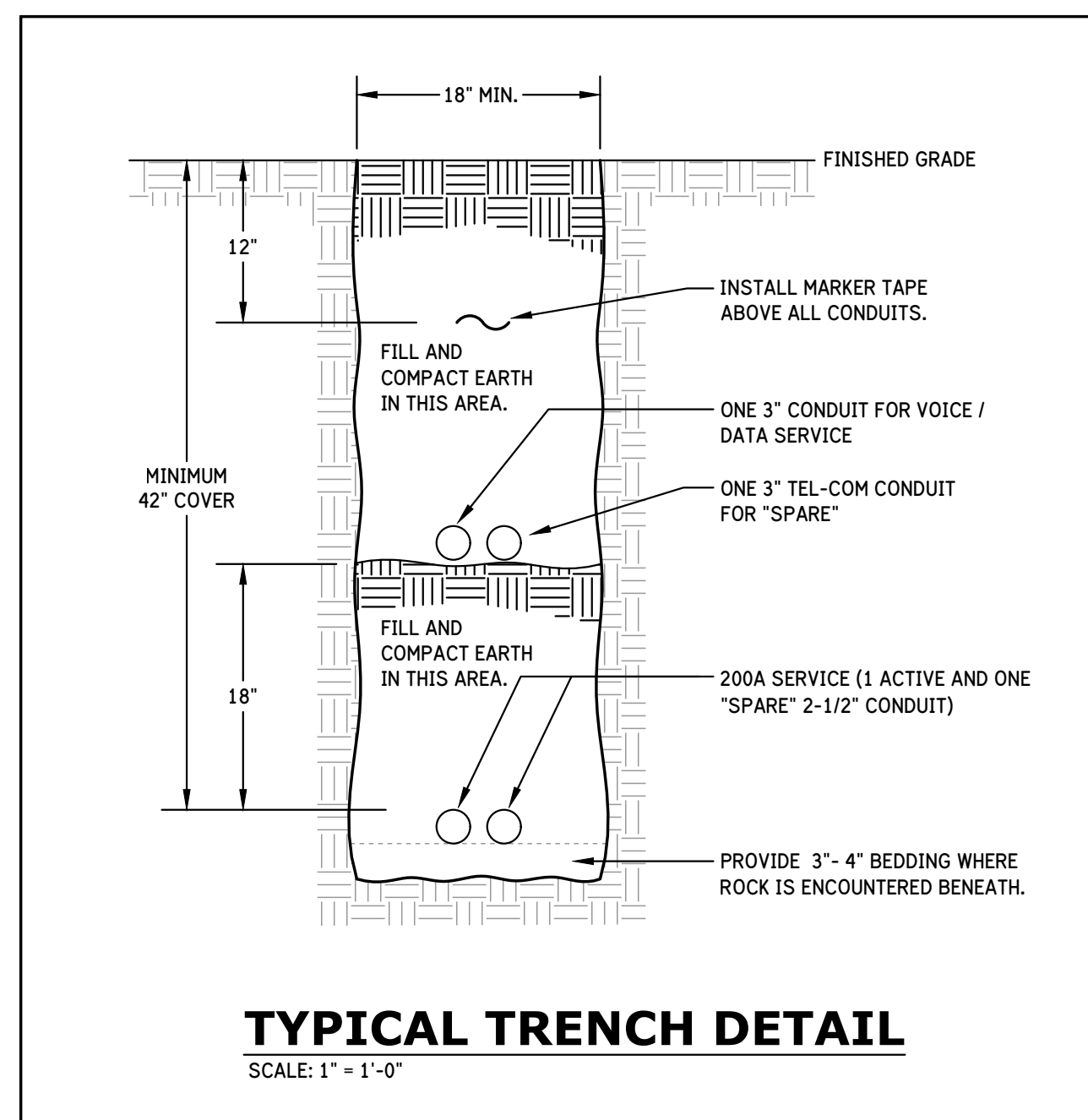
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SITE LUMINAIRE SCHEDULE	
SA	DECORATIVE POST-TOP AREA LUMINAIRE; TYPE V DISTRIBUTION; BRONZE FINISH; 25-3/4" TALL x 25-5/16" DIA; 8-FOOT ROUND STRAIGHT STEEL BRONZE FINISHED POLE HAVING HAND HOLE AND MATCHING BOLT COVER ON CONCRETE BASE
86 W	LED - 8511L, 4000°K, 70 CRI
	INVUE #ARB-B3-LED-D1-T5-BZ & POLE-TOP ADAPTER CAT. NO. ARPA4-BZ & POLE KW INDUSTRIES CAT. NO. RSP8-4.0-11-BRZ-OT-BC

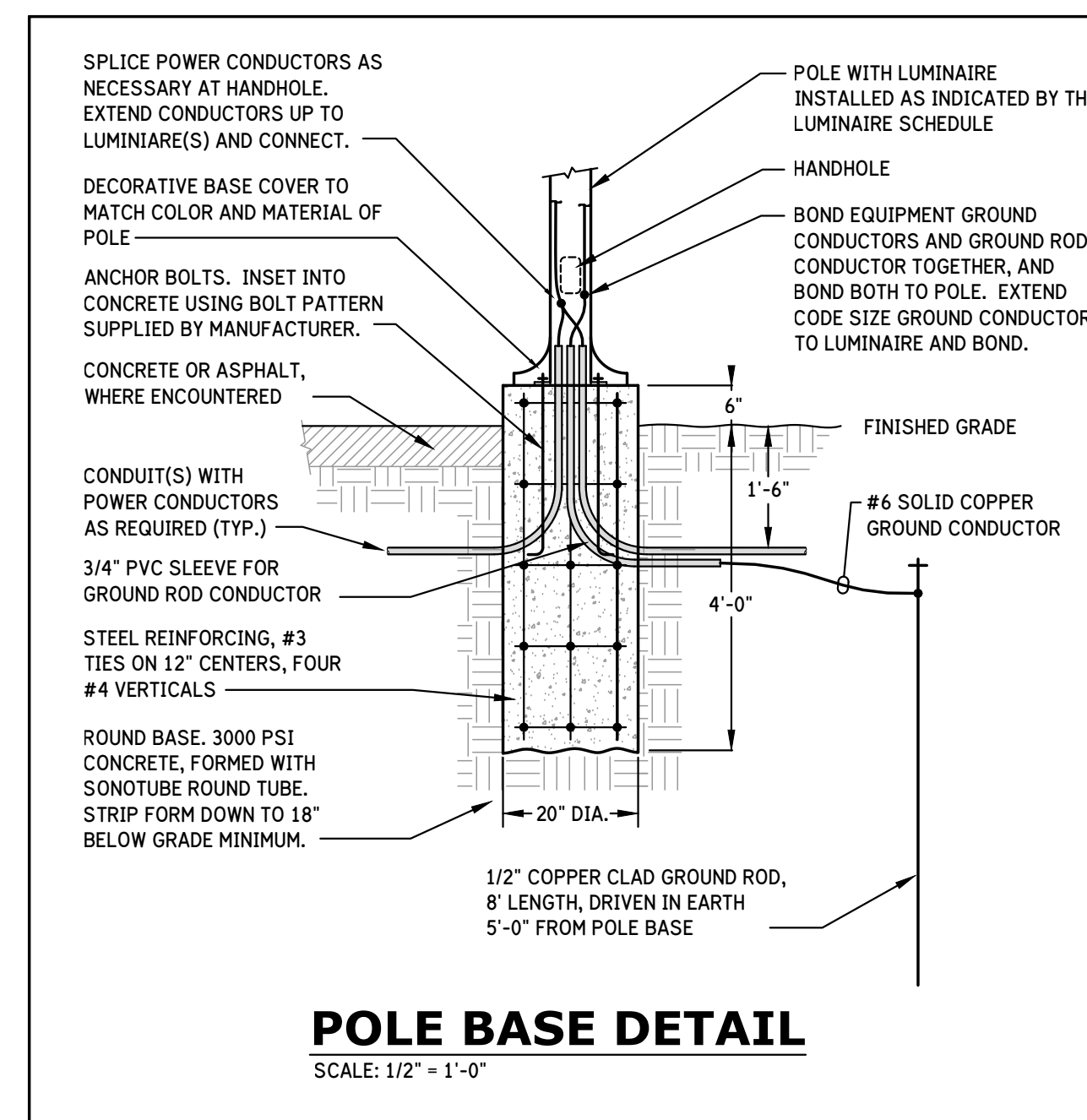
### ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"



### TYPICAL TRENCH DETAIL

SCALE: 1" = 1'-0"



### POLE BASE DETAIL

SCALE: 1/2" = 1'-0"

#### GENERAL NOTES:

- VERIFY AND COMPLY WITH ALL POWER COMPANY REQUIREMENTS, STANDARDS, AND DETAILS FOR ALL WORK RELATED TO PROVISION OF ELECTRICAL SERVICE TO FACILITY. COORDINATE ALL WORK WITH POWER COMPANY REPRESENTATIVE.
- VERIFY AVAILABLE AND OWNER'S PREFERRED TELECOM SERVICE PROVIDERS, AND VERIFY AND COMPLY WITH ALL TELECOM SERVICE PROVIDER REQUIREMENTS, STANDARDS, AND DETAILS FOR ALL WORK RELATED TO PROVISION OF TELECOM SERVICES TO FACILITY. COORDINATE ALL WORK WITH TELECOM SERVICE PROVIDERS REPRESENTATIVES.
- THOROUGHLY COORDINATE ALL UNDERGROUND ELECTRICAL WORK WITH THE WORK OF ALL OTHER TRADES TO AVOID CONFLICTS AND DELAYS. REVIEW INTENDED ELECTRICAL ROUTINGS WITH DISCIPLINE LEAD PERSONNEL FOR EACH TRADE AND LATEST REVISION OF OTHER TRADE DRAWINGS PRIOR TO COMMENCING EACH ASPECT OF UNDERGROUND SITE ELECTRICAL INSTALLATION.
- PROVIDE POLE BASE, PER DETAIL, FOR EACH SITE LIGHTING POLE SHOWN ON SITE PLAN ON THIS DRAWING.
- UNLESS OTHERWISE NOTED, INSTALL LIGHT POLE BASES HORIZONTALLY CENTERED 24" BACK FROM WALKWAY PAVEMENT.

#### KEYED NOTES:

- 200A UG ELECTRICAL SERVICE LATERAL TO FACILITY. SEE "POWER RISER DIAGRAM".
- PROVIDE (2) 3-INCH EMPTY UG CONDUITS, 1 EACH FOR VOICE / DATA SERVICE AND "SPARE" TELECOM TO FACILITY. ROUTED FROM TELECOM DEMARC LOCATION ON BUILDING EXTERIOR TO EXISTING UTILITY POLE. ROUTE UP POLE AND TERMINATE AT POLE END PER TELECOM SERVICE PROVIDER DIRECTION. STUB UP TO 18" AFG, CAP, AND SECURE TO EXTERIOR WALL AT BUILDING END.
- EXISTING UTILITY COMPANY POLE, ON WHICH ELECTRIC SERVICE TRANSFORMERS AND TELECOM SERVICE FOR FACILITY WILL BE LOCATED.

LOCAL PARK AND RECREATION FUND  
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RESTROOM / EQUIPMENT BUILDING  
**PEAY PARK SPLASH PAD**  
GOODLETTSVILLE, TENNESSEE

PROJECT INFORMATION

NO. DATE BY REVISION

DRAWN BY JAMES REED

DESIGNED BY JAMES REED

APPROVED BY JAMES REED

JOB NO. 5171556

DATE 2/9/2018

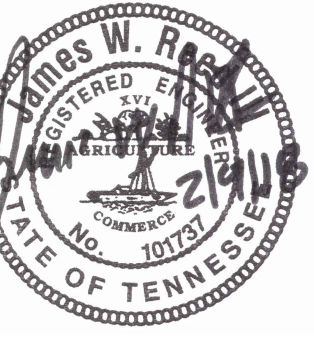
SCALE AS NOTED

ELECTRICAL SITE PLAN, SITE DETAILS

DRAWING NUMBER

**E1.1**

CADD FILE NO.



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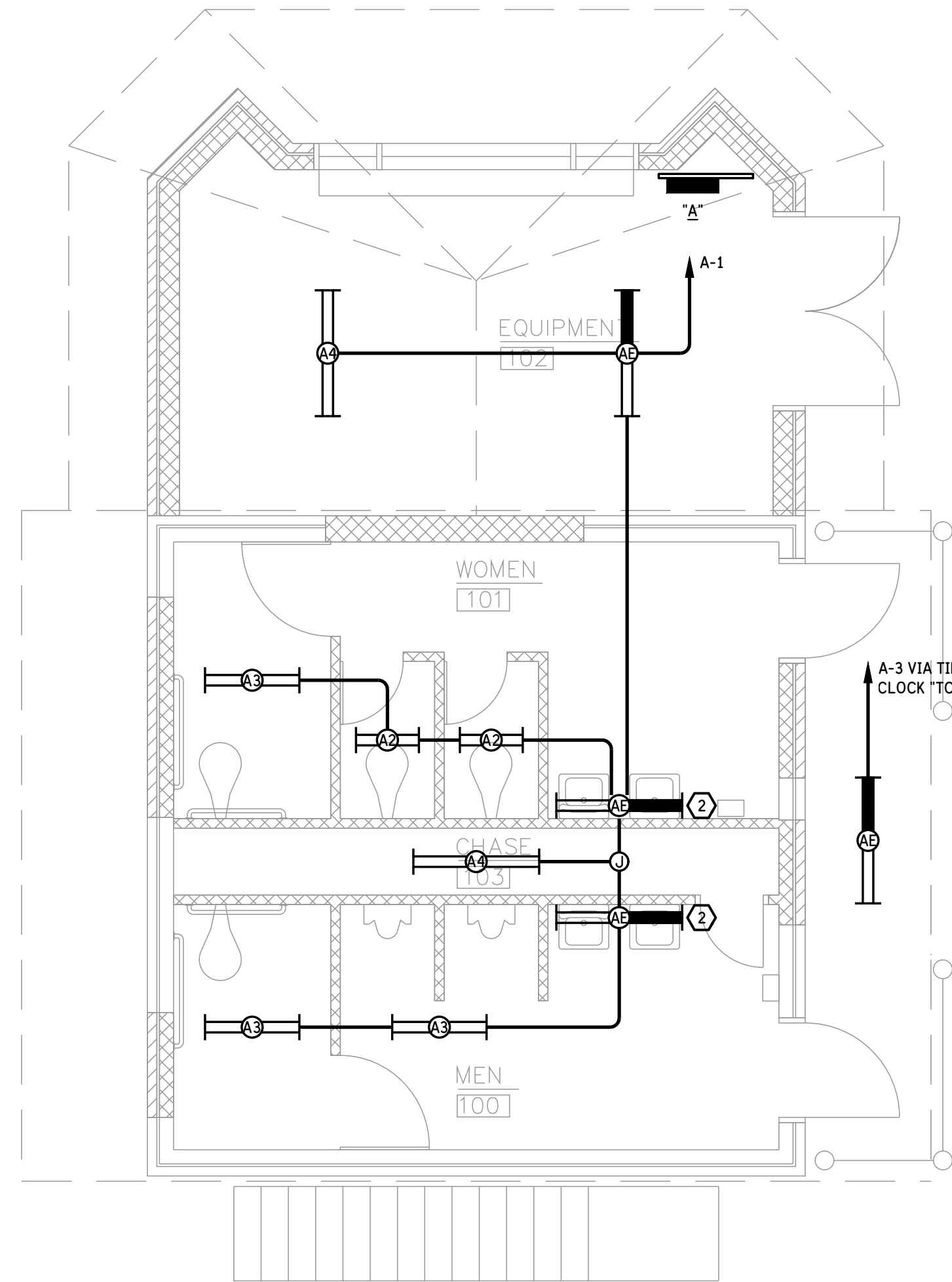
SCALE AS NOTED

FLOOR PLANS,  
LEGEND, NOTES,  
DETAILS,  
SCHEDULES

DRAWING NUMBER

E2.1

CADD FILE NO.



RESTROOM / EQUIPMENT BUILDING LIGHTING PLAN

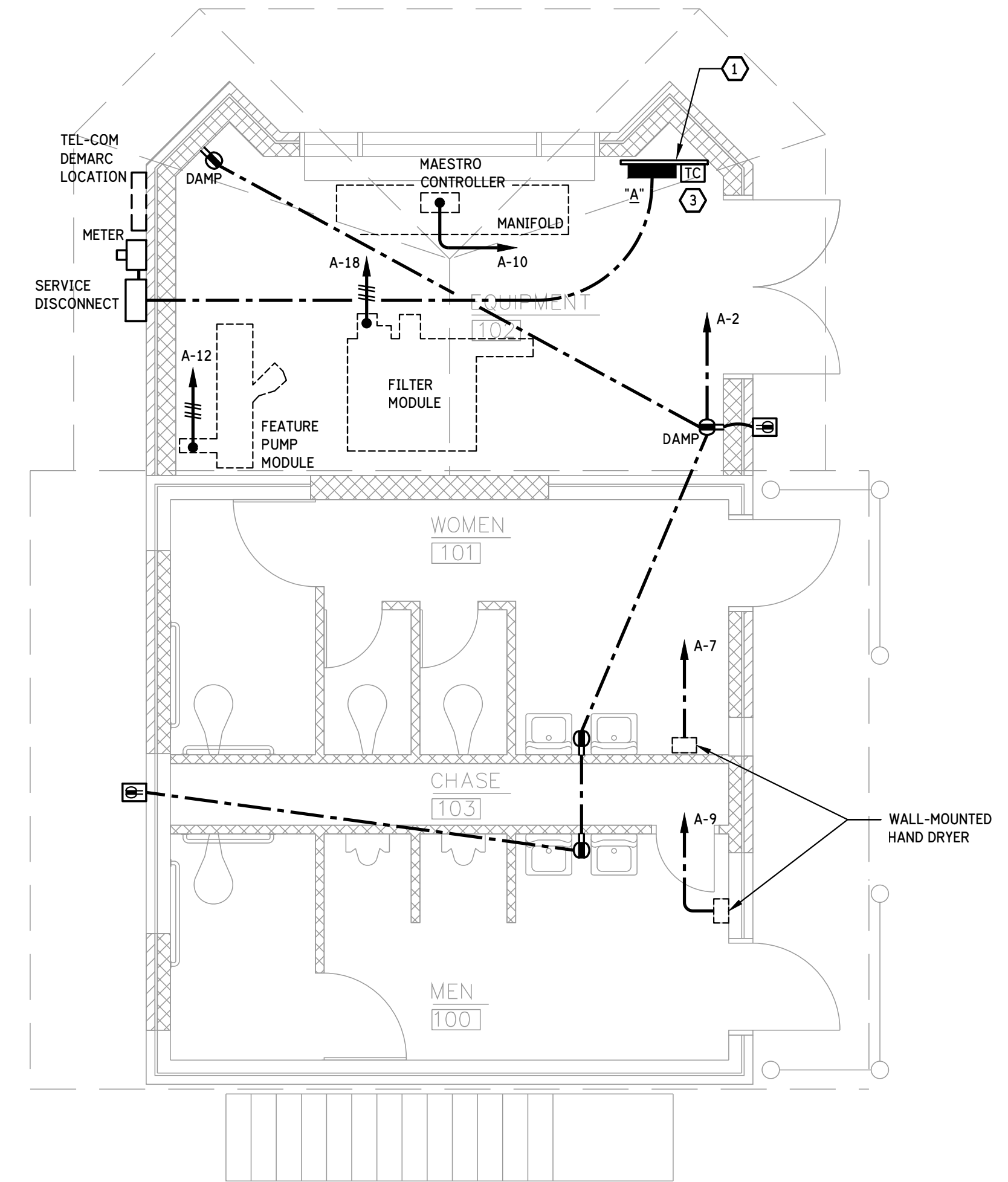
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- BASIS OF DESIGN IS VENDOR DRAWINGS PROVIDED TO ENGINEER FOR "PEAY PARK SPLASH PAD - PHASE 1", REV00, DATED 13/NOV/2017, PREPARED BY VORTEX USA INC. OF CARROLTON, TEXAS. OBTAIN AND COORDINATE ELECTRICAL WORK WITH LATEST REVISION OF THESE DRAWINGS, OR OTHERS AS DIRECTED BY ARCHITECT AND / OR OWNER.
- FIELD VERIFY EXACT LOCATION OF ALL EQUIPMENT IN EQUIPMENT ROOM, AND COORDINATE EQUIPMENT ARRANGEMENT WITH EQUIPMENT VENDOR'S REPRESENTATIVE PRIOR TO ROUGH-IN OF ANY ELECTRICAL SERVICE TO EQUIPMENT.
- ELECTRICAL SERVICE TO AND CONNECTIONS TO EQUIPMENT ARE REQUIRED TO BE MADE USING NEMA 4X COMPONENTS.

KEYED NOTES:

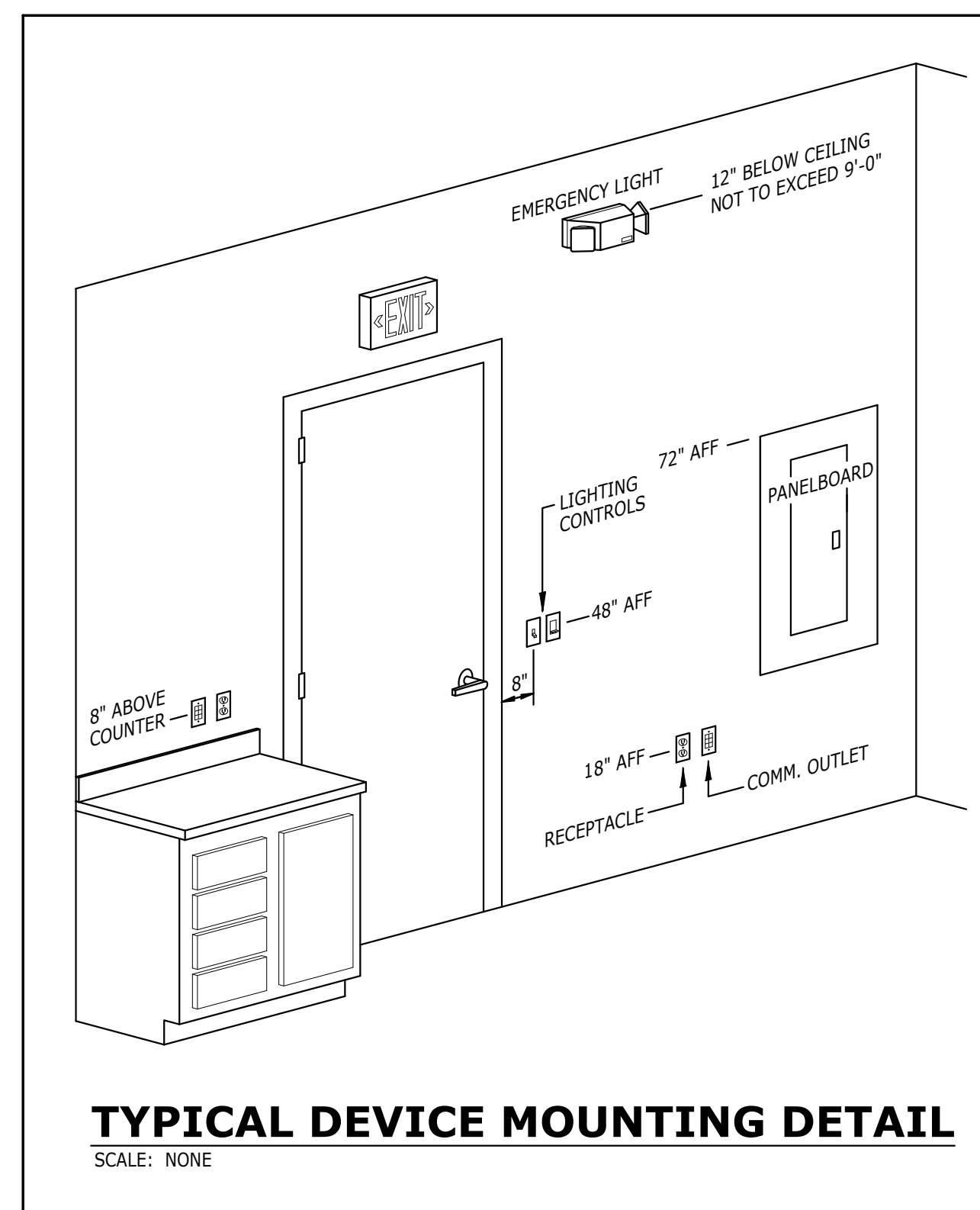
- PROVIDE ELECTRICAL EQUIPMENT SUPPORT RACK OF 1-5/8" x 1-5/8" STEEL FRAMING CHANNEL, EQUIVALENT TO ATKORE "UNISTRUT", COOPER "B-LINE", OR T&B "KINDORF" PRODUCT, SECURED TO WALL AND FLOOR AT BOTH ENDS WITH DEVICES AND FITTINGS OFFERED BY MANUFACTURER FOR THE APPLICATION.
- SPECIFIED LUMINAIRE IS NOT WALL-MOUNTED. INSTALL CEILING-MOUNTED TIGHT TO WALL.
- TIME SWITCH "TS" FOR CONTROL OF EXTERIOR BUILDING-MOUNTED LIGHTING - INSTALL 6'-0" AFF TO TOP. PROVIDE 7-DAY ASTRONOMIC SWITCH, DPST, RATED 40A PER POLE, 120-277VAC, 100-HOUR CAPACITOR-DRIVEN BACK-UP, NEMA 3R, EQUIVALENT TO TORK MODEL EW2103.



RESTROOM / EQUIPMENT BUILDING POWER PLAN

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

LEGEND	
	LINEAR TYPE LUMINAIRE - "A2" (ETC.) REFERS TO DESIGNATION IN LUMINAIRE SCHEDULE.
	HALF SHADING INDICATES LUMINAIRE PROVIDED WITH EMERGENCY BATTERY BACKUP POWER, INTEGRAL TO LUMINAIRE.
	POST TOP MOUNTED AREA / SITE LUMINAIRE - "SA" REFERS TO DESIGNATION IN LUMINAIRE SCHEDULE.
	GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE - 120-VOLT, 20-AMP DUPLEX RECEPTACLE WITH INTEGRAL GFCI PROTECTION AND SELF-TESTING.
	DAMP LOCATION GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE - INSTALLED WITH AN ALUMINUM FLIP-OPEN STYLE DAMP LABEL COVER.
	WEATHERPROOF CONTINUOUS USE RECEPTACLE - 120-VOLT, 20-AMP WEATHER RESISTANT (WR) GFCI RECEPTACLE INSTALLED IN ALUMINUM "WHILE-IN-USE" COVER, THOMAS & BETTS RED-DOT #CKMUV OR EQUAL.
	JUNCTION BOX - SIZE AND USE AS REQUIRED.
	PANELBOARD - FLUSH OR SURFACE MOUNTED AS INDICATED. MOUNT TOP OF PANEL AT 6'-0" OR AT NEAREST MASONRY JOINT. "A" INDICATES THE PANEL DESIGNATION. SEE PANELBOARD SCHEDULE FOR PANELBOARD REQUIREMENTS.
	TIME CLOCK FOR CONTROL OF EXTERIOR BUILDING-MOUNTED LIGHTING - INSTALL 60" AFF TO TOP. PROVIDE 7-DAY ASTRONOMIC SWITCH, DPST, RATED 40A PER POLE, 120-277VAC, 100-HOUR CAPACITOR-DRIVEN BACK-UP, NEMA 4X ENCLOSURE, EQUIVALENT TO TORK MODEL EW2103.
	CONDUIT OR CABLE INSTALLED IN CEILING OR WALL CONSTRUCTION.
	HOMERUN - EXTEND CONDUIT TO THE PANELBOARD BREAKER(S) OR DEVICE INDICATED. CIRCUITS SHARING A COMMON NEUTRAL SHALL BE CONNECTED TO DIFFERENT PHASES WITHIN THE PANELBOARD REGARDLESS OF THE NUMBERING ON THE DRAWINGS.
	CROSSHATCHES INDICATE THE NUMBER OF CONDUCTORS IN A CIRCUIT, WHERE GREATER THAN TWO. CONDUCTORS SHALL BE A MINIMUM OF #12 FOR CIRCUITS RATED MORE THAN 50-VOLTS. CONDUITS SHALL BE 3/4" MINIMUM. ALL CIRCUITS SHALL BE PROVIDED WITH A GREEN CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR.
	CONDUIT OR CABLE INSTALLED UNDERGROUND OR BENEATH THE FLOOR STRUCTURE.



TYPICAL DEVICE MOUNTING DETAIL

SCALE: NONE

A DESIGNATION	VOLTS: 208Y/120 3 PHASE 4 WIRE		A4: 6.0 KW		B4: 5.6 KW		C4: 4.2 KW		TOTAL: 15.8 KW
	AMPS: 225	MAIN: LUIGS	TRIM: SURFACE	ENCL: NEMA 4X	SCCR: 25 KA	WxD: 22' x 6'			
DESCRIPTION	BKR	KW	A	B	C	BKR	DESCRIPTION		
LTG - RR / EQUIP BLDG 1ST FLR INDOOR	20 / 1	0.4	1			2	1.0	20 / 1	RCPTS - RR / EQUIP BLDG 1ST FLR
LTG - RR / EQUIP BLDG 1ST FLR EXTERIOR	VIA 'TC'	0.1	3			4	20 / 1	S P A R E	
LTG - SITE	20 / 1	0.6	5			5	20 / 1	S P A R E	
HAND DRYER - WOMEN	20 / 1	1.0	7			8	20 / 1	S P A R E	
HAND DRYER - MEN	20 / 1	1.0	9			10	0.9	20 / 1	MAESTRO CONTROLLER
S P A R E	20 / 1	11				12	1.8	20 / 1	FEATURE PUMP MODULE
S P A R E	20 / 1	13				14	1.8		---
S P A R E	20 / 1	15				16	1.8		---
PROVISION	17					18	1.8	20	---
PROVISION	19					20	1.8		---
PROVISION	21					22	1.8	3	---
PROVISION	23					24			---
PROVISION	25					26			---
PROVISION	27					28			---
PROVISION	29					30			---

LUMINAIRE SCHEDULE	
A2	NOMINAL 2-FOOT x 9"W x 4"D LUMINAIRE; IP-65; VANDAL RESISTANT; WET LABELED; INTEGRAL MOTION SENSOR CLG SURFACE-MOUNTED 20 W LED - NOMINAL 2000L, 3500K, 80+ CRI ECLIPSE CAT. NO. 572-SPL-20W-EBU-35K-WH-MS1
A3	NOMINAL 3-FOOT x 9"W x 4"D LUMINAIRE; IP-65; VANDAL RESISTANT; WET LABELED; INTEGRAL MOTION SENSOR CLG SURFACE-MOUNTED 40 W LED - NOMINAL 4000L, 3500K, 80+ CRI ECLIPSE CAT. NO. 573-SPL-40W-EBU-35K-WH-MS1
A4	NOMINAL 4-FOOT x 9"W x 4"D LUMINAIRE; IP-65; VANDAL RESISTANT; WET LABELED; INTEGRAL MOTION SENSOR CLG SURFACE-MOUNTED 50 W LED - NOMINAL 5000L, 3500K, 80+ CRI ECLIPSE CAT. NO. 574-SPL-50W-EBU-35K-WH-MS1
A5	NOMINAL 4-FOOT x 9"W x 4"D LUMINAIRE; IP-65 VANDAL; RESISTANT WET LABELED; INTEGRAL MOTION SENSOR INTEGRAL BATTERY BACK-UP; CEILING SURFACE-MOUNTED 50 W LED - NOMINAL 5000L, 3500K, 80+ CRI ECLIPSE CAT. NO. 574-SPL-50W-EBU-35K-WH-MS1-EL85



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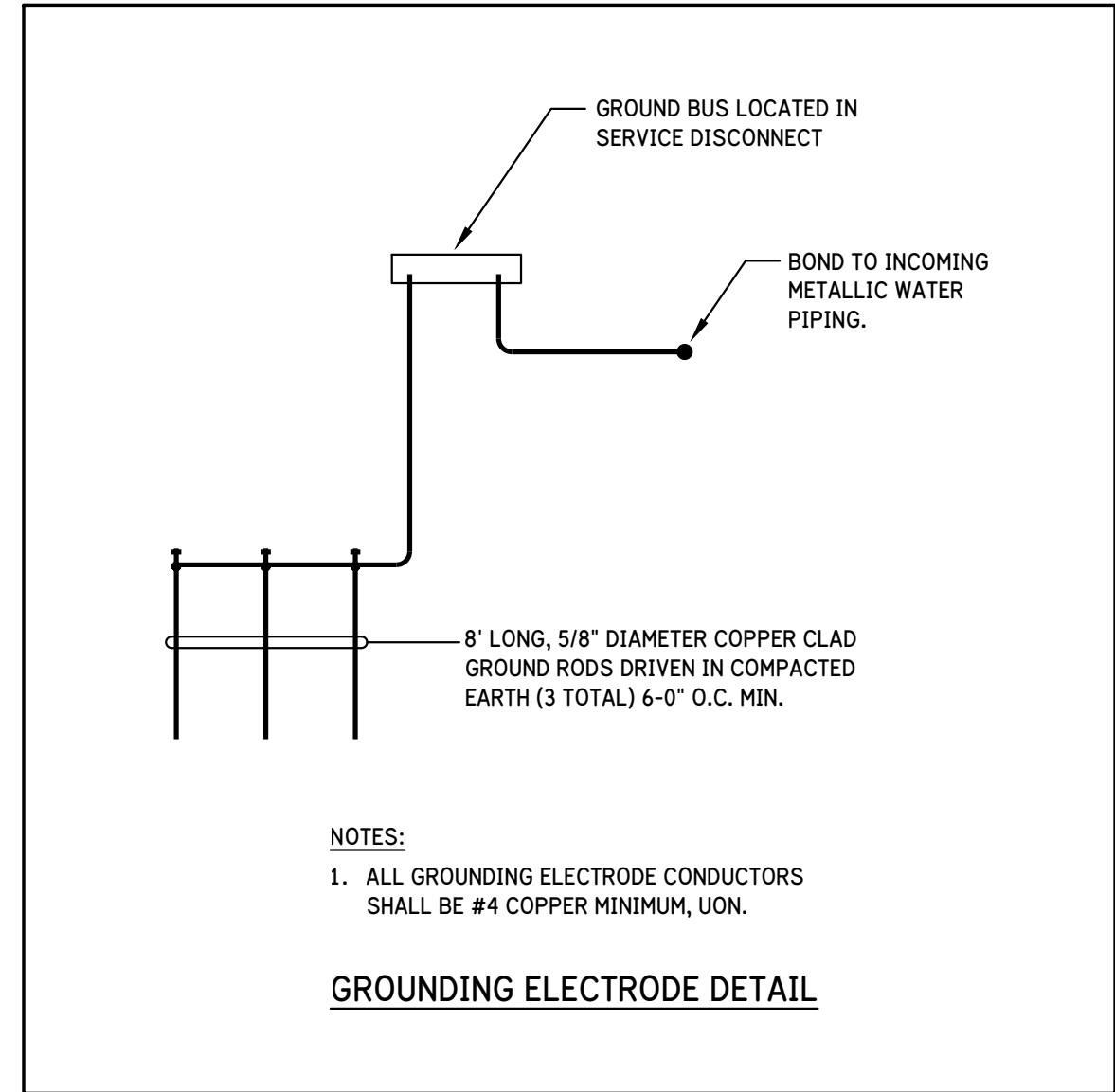
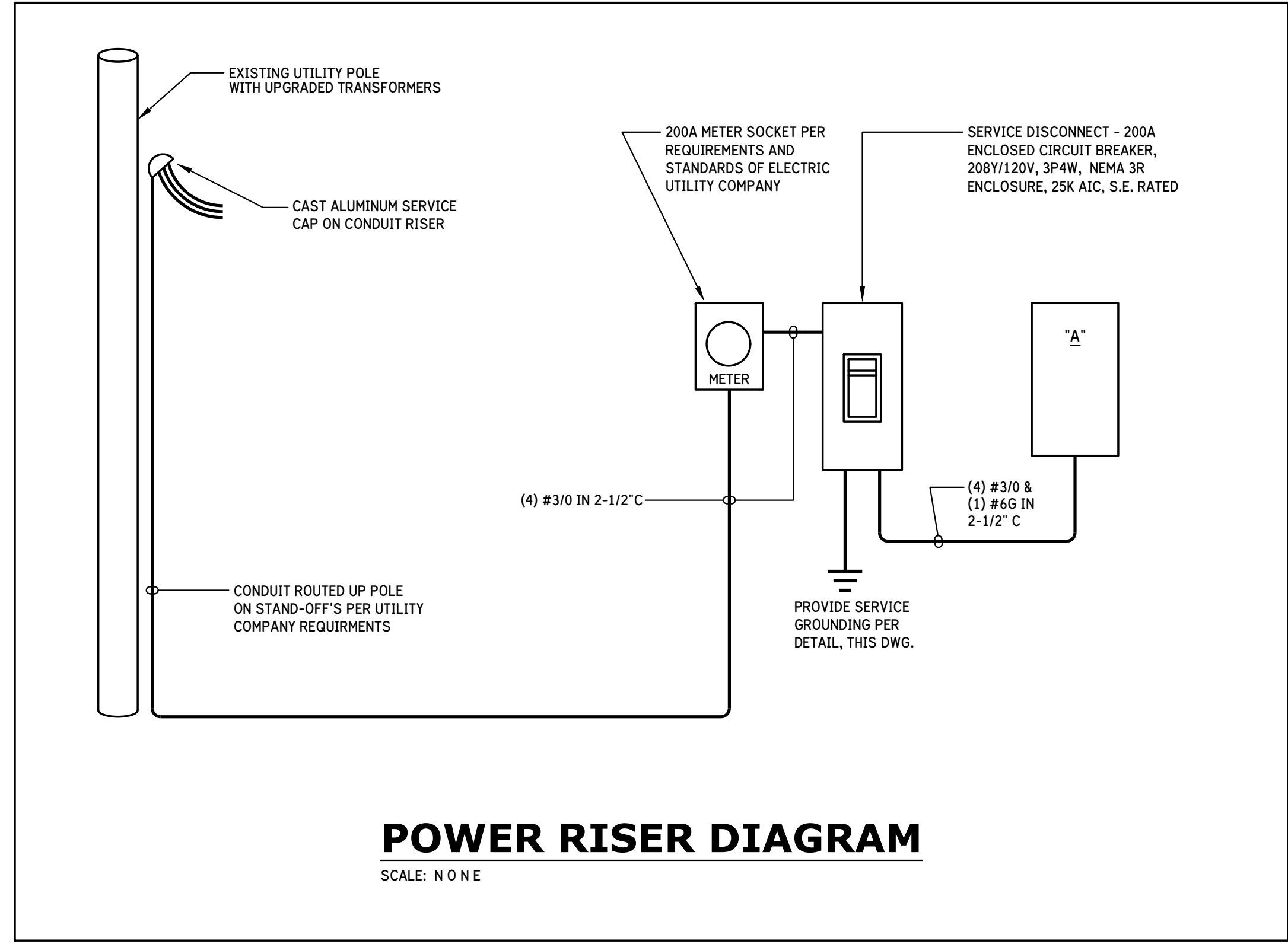
SCALE AS NOTED

RISER DIAGRAM,  
 SPECIFICATIONS,  
 ENERGY  
 CODE COMPLIANCE

DRAWING NUMBER

E3.1

CADD FILE NO.



**SPECIFICATIONS**

1.01 THE ELECTRICAL CONTRACT WORK SHALL INCLUDE ALL ELECTRICAL MATERIALS AND INSTALLATION TO RESULT IN A BUILDING READY AND SUITABLE FOR USE AS INTENDED BY OWNER. THE CONTRACTOR SHALL REFER TO ALL PLANS AND SPECIFICATIONS WITHIN THE CONTRACT DOCUMENTS TO DETERMINE THE SCOPE OF WORK FOR THE PROJECT.

1.02 ALL ELECTRICAL INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND OTHER CODES IN FORCE WITHIN THE JURISDICTION OF THE PROJECT. ALL MATERIALS EMPLOYED SHALL BE UL LISTED AND APPROVED AND BEAR THE UL OFFICIAL LABELS WHERE SUCH LABELING IS CUSTOMARY. IN THE EVENT THAT LOCAL CODES ARE MORE RIGID THAN THE NATIONAL ELECTRIC CODE, BOTH CODES SHALL THEN BE CONSIDERED AS JOINTLY GOVERNING AND THE REQUIREMENTS OF THE MOST RIGID SHALL THEN PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SELECTION AND APPLICATION OF MATERIALS AND METHODS OF THEIR INSTALLATION. PRINCIPAL FEATURES ARE AS FOLLOWS:

A. LIGHTING FIXTURES AND LAMPS.  
 B. ELECTRICAL SERVICE ENTRANCE.  
 C. A SYSTEM OF ELECTRICAL FEEDERS, PANELBOARDS, AND BRANCH CIRCUIT WIRING TO PROVIDE A COMPLETE POWER DISTRIBUTION SYSTEM.  
 D. WIRING DEVICES INCLUDING OUTLETS, SWITCHES, AND COVERPLATES.  
 E. LIGHTING, INCLUDING EGRESS AND EMERGENCY LIGHTING.  
 F. CONNECTION OF EQUIPMENT, INCLUDING HVAC, PLUMBING, AND OTHER EQUIPMENT AS INDICATED ON THE PLANS.  
 G. RACEWAYS, OUTLET BOXES, AND OTHER PROVISIONS FOR OWNER-PROVIDED DATA NETWORK AND COMMUNICATION SYSTEMS.  
 H. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL SYSTEMS.

1.03 POWER SERVICE  
 A. POWER SERVICE SHALL BE 208Y/120-VOLTS, 3-PHASE, 4-WIRE.

1.04 DISTRIBUTION SYSTEM  
 A. DISTRIBUTION EQUIPMENT AND BRANCH CIRCUIT PANELBOARDS SHALL BE MOLDED CASE CIRCUIT BREAKER EQUIPMENT HAVING THE NECESSARY INTERRUPTING RATINGS BUT NOT LESS THAN 10,000 AIC. GROUND FAULT SENSING AND AUTOMATIC INTERRUPTING SHALL BE FURNISHED ON ANY OUTDOOR POWER CIRCUITS AND AS OTHERWISE REQUIRED. EQUIPMENT SHALL BE SQUARE-D OR EQUAL.  
 B. ALL CONDUCTORS SHALL BE COPPER.  
 C. CONDUIT SHALL BE AS PERMITTED BY APPLICABLE CODES. MINIMUM CONDUIT SIZE SHALL BE 3/4-INCHES. CONDUIT FOR BUILDING INTERIOR SHALL BE ELECTRICAL METALLIC TUBING (EMT) WITH SET-SCREW FITTINGS. CONDUIT BELOW GRADE AND UNDER THE SLAB SHALL BE PVC RIGID NON-METALLIC CONDUIT (RNC). EXTERIOR CONDUIT AND CONDUIT SUBJECT TO DAMAGE SHALL GALVANIZED RIGID METAL CONDUIT (RMC). UNLESS PARTICULARLY STATED OTHERWISE, ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED.  
 D. WHERE ALLOWED BY CODE, INTERIOR BRANCH CIRCUITS RATED 50-AMPERES OR LESS MAY USE METAL CLAD (TYPE "MC") CABLE.

1.05 GROUNDING  
 A. PROVIDE CODE GROUNDING FOR ALL INSTALLED SYSTEMS. EACH CONDUIT SHALL HAVE A GREEN, INSULATED, CODE-SIZED GROUND CONDUCTOR THAT SHALL BE BONDED TO ALL METAL PARTS. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE SOLE GROUNDING PATH.

1.06 LIGHTING  
 A. LIGHTING SHALL BE FURNISHED FOR ALL OCCUPIED SPACES WITHIN AND OUTSIDE THE BUILDING. LIGHTING LEVELS SHALL BE ADEQUATE FOR TASK PERFORMED AND GENERALLY COMPLY WITH IES RECOMMENDATIONS. CONTROLS SHALL BE CONVENIENT FOR THE USE INTENDED WITH LOCAL SWITCHING AND 3-WAY OR 4-WAY CONTROLS AS NECESSARY. EXTERIOR LIGHTING SHALL BE AS NOTED ON DRAWINGS.

1.07 CONNECTION OF EQUIPMENT  
 A. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT FURNISHED BY OTHER TRADES INCLUDING HVAC EQUIPMENT AND PLUMBING EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL REVIEW SUBMITTAL AND CUTSHEET INFORMATION OF EACH PIECE OF EQUIPMENT AND SHALL VERIFY VOLTAGE, CAPACITY AND PHASE OF EQUIPMENT PRIOR TO ROUGH-IN. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVES AND EQUIPMENT SUPPLIERS. WHERE REQUIRED, THE ELECTRICAL CONTRACTOR SHALL FURNISH DISCONNECT SWITCHES AND MANUAL MOTOR STARTERS. ALL MOTOR STARTER HEATER ELEMENTS AND OVERCURRENT PROTECTION SHALL BE CHECKED FOR PROPER APPLICATION TO THE DEVICE BEING SERVED. DISCONNECTS AND SWITCHES SHALL BE SQUARE-D COMPANY OR EQUAL.

1.08 WIRING DEVICES  
 A. WIRING DEVICES SHALL BE INSTALLED AS INDICATED ON THE PLANS AND WHERE NECESSARY TO CONNECT EQUIPMENT. A STANDARD SIZE NYLON WALL PLATES SHALL BE INSTALLED FOR EACH DEVICE. THE COLOR OF THE WALL PLATE AND WIRING DEVICE SHALL BE SELECTED BY THE OWNER'S REPRESENTATIVE. ALL WIRING DEVICES SHALL BE MOUNTED FLUSH IN WALL UNLESS INDICATED OTHERWISE.  
 B. TOGGLE SWITCHES SHALL BE SPECIFICATION GRADE RATED 120-277 VOLTS, 20-AMPS, BACK- AND SIDE-WIRED. PROVIDE SINGLE POLE, 3-WAY, OR 4-WAY AS REQUIRED. HUBBELL #CS1221 SERIES OR EQUAL.  
 C. RECEPTACLES SHALL BE SPECIFICATION GRADE RATED 20-AMPS AT 120-VOLTS, BACK- AND SIDE-WIRED. STANDARD RECEPTACLES SHALL BE HUBBELL #HBL5352 SERIES OR EQUAL. GROUND-FAULT PROTECTED RECEPTACLES SHALL BE PROVIDED WITH AN LED VISUAL INDICATOR, HUBBELL #GF20L SERIES OR EQUAL.  
 D. RECEPTACLES INSTALLED OUTDOORS SHALL BE SPECIFICATION GRADE, GFCL, 120-VOLT, 20-AMP WEATHER RESISTANT (WR) WITH WHILE-IN-USE COVER. HUBBELL #GFTR20 SERIES WITH RED DOT #CKMUV COVER, OR AS APPROVED.

1.09 EMERGENCY POWER  
 A. EXIT LIGHTING AND CERTAIN OTHER LUMINAIRES SHALL BE EQUIPPED WITH INDIVIDUALLY MOUNTED BATTERY PACKS WITH AUTOMATIC CHARGING AND SWITCHING OPERATIONS IN THE EVENT OF LOSS OF NORMAL BUILDING POWER. THE EMERGENCY POWER SHALL BE WIRING TO AN UNSWITCHED "HOT" CONDUCTOR TO ALLOW FOR PROPER OPERATION.

1.10 MATERIALS  
 A. BASIC MATERIALS AND DEVICES REQUIRED IN THE WIRING SYSTEMS SHALL BE UL APPROVED STANDARDS. IN THE EVENT THAT UL STANDARD IS REVISED, SUPPLEMENTED, OR MODIFIED, ETC., THE LATEST REQUIREMENTS SHALL THEN GOVERN.  
 B. AT THE REQUEST OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE, THE CONTRACTOR SHALL SUBMIT A LIST OF MATERIALS PROPOSED TO BE USED IN THE CONSTRUCTION OR PROVIDE SAMPLES, ETC., FULLY ESTABLISHING THE TYPE, GRADE, AND QUALITY OF EACH DEVICE OR ITEM OF MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ONLY SUCH DEVICES AND MATERIALS AS OBVIOUSLY MEET GOVERNING REQUIREMENTS.  
 C. CABINETS SHALL BE CONSTRUCTED OF SHEET STEEL, OF CODE GAUGE, AND FOR EITHER SURFACE OR FLUSH MOUNTING AS SHOWN ON DRAWINGS. SURFACES SHALL BE BONDERIZED TO RESIST CORROSION OR RUSTING. CABINETS FOR INTERIOR INSTALLATION IN FINISHED SPACES SHALL HAVE DOOR AND TRIMS PAINTED TO MATCH SURROUNDINGS.  
 D. CABINETS MOUNTED OUTDOORS SHALL BE OF WEATHERPROOF CONSTRUCTION WITH A FINISH TO ADEQUATELY PROTECT THE METAL AGAINST ACTION OF THE ELEMENTS. A MEANS OF LOCKING COVERS OR DOORS OVER THE CIRCUIT PROTECTIVE SECTIONS SHALL BE PROVIDED.

1.11 WORK QUALITY  
 A. ALL ELECTRICAL WORK SHALL BE SPECIFIED TO BE PERFORMED IN A WORKMANLIKE AND PROFESSIONAL MANNER BY WORKMEN SKILLED IN THE TRADE REQUIRED. THE WORK SHALL RESULT IN A FINISHED AND OPERATING SYSTEM.

1.12 GUARANTEE  
 A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK TO BE FREE OF GROUNDS AND SHORT CIRCUITS AND SHALL REPAIR OR REPLACE ALL DEFECTIVE WORK WITHIN A PERIOD OF ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION.

1.13 CODES, PERMITS, FEES  
 A. THE ELECTRICAL CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR ALL CHARGES, FEES OR CONTRIBUTIONS TO CONSTRUCTION REQUIRED BY THE ELECTRICAL UTILITY.

**COMcheck Software Version 4.0.7.1**  
**Exterior Lighting Compliance Certificate**

**Project Information**  
 Energy Code: 2012 IECC  
 Project Title: Peay Park Splash Pad Restroom / Equipment Bldg  
 Project Type: New Construction  
 Exterior Lighting Zone: 2 (Residential mixed use area)

Construction Site: Goodlettsville, TN  
 Owner/Agent:  
 Designer/Contractor: Keith Patterson, LC, MIES  
 Harpeth Park Engineering  
 256 Seaboard Lane, Suite G101  
 Franklin, TN 37067  
 keith@harpethpark.engineering

**Allowed Exterior Lighting Power**

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Special feature area	22097 ft2	0.14	Yes	3094
				Total Tradable Watts (a) = 3094
				Total Allowed Watts = 3094
				Total Allowed Supplemental Watts (b) = 630

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.  
 (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

**Proposed Exterior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Special feature area (22097 ft2): Tradable Wattage				
LED 1: SA: post top mounted area luminaire: Other:	1	6	86	516
				Total Tradable Proposed Watts = 516

**Exterior Lighting PASSES: Design 86% better than code**

**Exterior Lighting Compliance Statement**  
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.7.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

KEITH PATTERSON, LC, MIES  
 Name - Title Signature Date JANUARY 30, 2018

Project Title: Peay Park Splash Pad Restroom / Equipment Bldg Report date: 01/30/18  
 Data filename: G:\117059 - Peay Park Splash Pad\ComCheck.cck Page 2 of 7

**COMcheck Software Version 4.0.7.1**  
**Interior Lighting Compliance Certificate**

**Project Information**  
 Energy Code: 2012 IECC  
 Project Title: Peay Park Splash Pad Restroom / Equipment Bldg  
 Project Type: New Construction

Construction Site: Goodlettsville, TN  
 Owner/Agent:  
 Designer/Contractor: Keith Patterson, LC, MIES  
 Harpeth Park Engineering  
 256 Seaboard Lane, Suite G101  
 Franklin, TN 37067  
 keith@harpethpark.engineering

**Additional Efficiency Package**  
 Unspecified

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-public restrooms and water feature equip room (Office)	691	0.90	622
Total Allowed Watts = 622			

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-public restrooms and water feature equip room (Office)				
LED 1: A2: 2-foot linear vandal proof: Other:	1	2	20	40
LED 2: A3: 3-foot linear vandal proof: Other:	1	3	40	120
LED 3: A4: 4-foot linear vandal proof: Other:	1	2	50	100
LED 4: AE: 4-foot vandal proof w / battery: Other:	1	3	50	150
				Total Proposed Watts = 410

**Interior Lighting PASSES: Design 34% better than code**

**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.7.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

KEITH PATTERSON, LC, MIES  
 Name - Title Signature Date JANUARY 29, 2018

Project Title: Peay Park Splash Pad Restroom / Equipment Bldg Report date: 01/29/18  
 Data filename: G:\117059 - Peay Park Splash Pad\ComCheck.cck Page 1 of 6