

Family Recreational Area at Northview Heights, AMP-09

IFB#600-11-26 REBID

ADDENDUM

ATTACHMENT E

UPDATED CONSTRUCTION DRAWINGS SET

PART 4 OF 4

TEMPORARY SEEDING SPECIFICATIONS:

LIMESTONE	RAW, GROUND AGRICULTURAL LIMESTONE CONTAINING MORE THAN 90 PERCENT CALCIUM CARBONATES (ADJUST PH LEVELS TO 6.5 TO 7.0). APPLY AT A RATE OF 410 LBS / 1000 S.Y., UNLESS OTHERWISE INDICATED BY SOIL TESTS.		
COMMERCIAL FERTILIZER	IN ABSENCE OF A SOIL TEST, USE 100 LBS / 1000 S.Y. OF 10-10-10 MIXED INTO SEED BED PRIOR TO SEEDING, OR IN A TANK WITH SEED WHEN HYDROSEEDING.		
MULCH	CLEAN OAT OR WHEAT STRAW SHALL BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT 1947. APPLY AT A RATE OF 3 TONS/AC (139 LBS/1000 SF). PRECAUTION SHALL BE TAKEN TO STABILIZE THE MULCH UNTIL THE VEGETATIVE COVER IS ESTABLISHED.		
SEED MIXTURE	SEED MIXTURE SHALL BEAR A GUARANTEED STATEMENT OF ANALYSIS AND SHALL BE COMPOSED OF THE FOLLOWING VARIETIES AND MIXED IN THE PROPORTIONS SPECIFIED.		
TEMPORARY SEED MIXTURE	PROPORTION BY WEIGHT	MINIMUM PURITY	MINIMUM GERMINATION
ANNUAL RYEGRASS	100%	98%	90%
THREE (3) PERCENT REDTOP MAY BE ADDED TO THE LAWN MIXTURE ON SLOPE AREAS OR FOR LATE SPRING OR LATE FALL SEEDING.			
SEEDING RATE	TEMPORARY SEEDING SHALL BE APPLIED AT THE RATE OF TEN (10) POUNDS PER ONE THOUSAND (1,000) SQUARE YARDS.		
NOTES	ALL AREAS TO BE SEEDED SHALL BE LOOSENED TO A DEPTH OF AT LEAST TWO INCHES BY MECHANICAL MEANS, OR AS APPROVED BY THE LANDSCAPE ARCHITECT.		
	MULCH SEEDED AREAS IMMEDIATELY AFTER SEEDING.		
	SEED ALL DISTURBED AREAS WITH THE TEMPORARY SEED MIXTURE EXCEPT THOSE AREAS SHOWN TO BE SEEDED WITH STEEP SLOPE MIXTURE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.		
	HYDROSEEDING WITH TACIFIER MAY BE USED IN LIEU OF MULCH.		

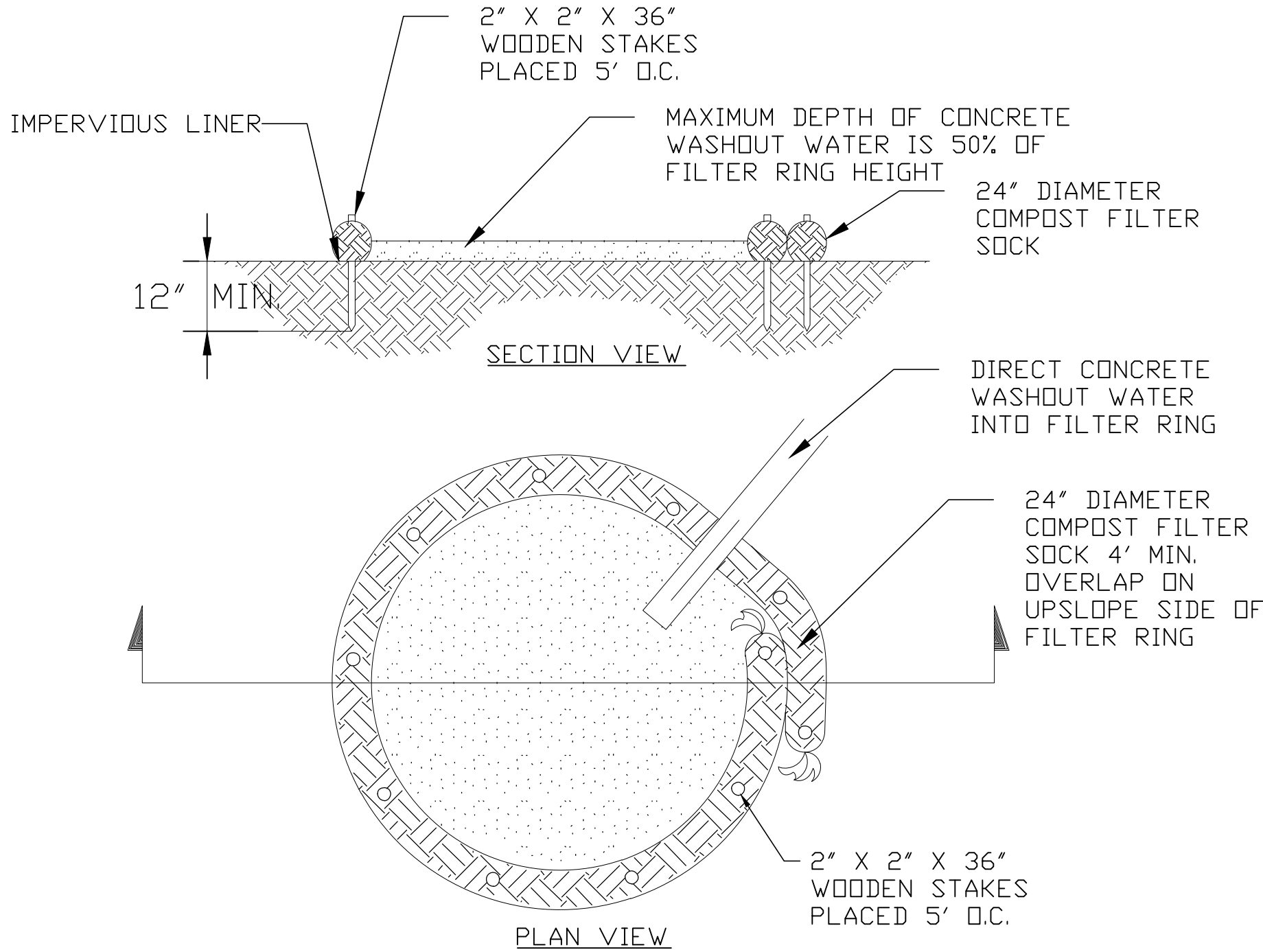
PERMANENT SEEDING SPECIFICATIONS:

TOPSOIL	4" MIN. TOPSOIL SHALL BE REQUIRED ON ALL DISTURBED AREAS AFTER SITE HAS BEEN RECLAIMED/RESTORED.		
LIMESTONE	RAW, GROUND AGRICULTURAL LIMESTONE CONTAINING MORE THAN 90 PERCENT CALCIUM CARBONATES (ADJUST PH LEVELS TO 6.5 TO 7.0). APPLY AT A RATE OF 2,480 LBS / 1000 S.Y., UNLESS OTHERWISE INDICATED BY SOIL TESTS.		
COMMERCIAL FERTILIZER	IN ABSENCE OF A SOIL TEST, USE 210 LBS / 1000 S.Y. OF 10-10-20 MIXED INTO SEED BED PRIOR TO SEEDING, OR IN A TANK WITH SEED WHEN HYDROSEEDING.		
INOCULANT	INOCULANT FOR TREATING LEGUMINOUS SEEDS SHALL BE A STANDARD COMMERCIAL PRODUCT CONSISTING OF A SUITABLE CARRIER CONTAINING A CULTURE OF NITROGEN FIXING BACTERIA SPECIFIC FOR SEEDS TO BE INOCULATED. INOCULANT SHALL NOT BE USED LATER THAN DATE INDICATED ON THE CONTAINER.		
MULCH	CLEAN OAT OR WHEAT STRAW SHALL BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT 1947. APPLY AT A RATE OF 3 TONS/AC (139 LBS/1000 SF). PRECAUTION SHALL BE TAKEN TO STABILIZE THE MULCH UNTIL THE VEGETATIVE COVER IS ESTABLISHED.		
SEED MIXTURE	SEED MIXTURE SHALL BEAR A GUARANTEED STATEMENT OF ANALYSIS AND SHALL BE COMPOSED OF THE FOLLOWING VARIETIES AND MIXED IN THE PROPORTIONS SPECIFIED.		
PERMANENT SEEDING MIXTURE (PENNDOT FORMULA "B")	PROPORTION BY WEIGHT	MINIMUM PURITY	MINIMUM GERMINATION
PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20%	98%	90%
CREEPING RED FESCUE OR CHEWINGS FESCUE	30%	98%	85%
KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 25% OF THE TOTAL BLUEGRASS COMPONENT.	50%	98%	80%
SEEDING RATE	PERMANENT SEEDING SHALL BE APPLIED AT A RATE OF 21 POUNDS PER 1,000 SQUARE FEET.		
PREPARATION OF SEEDING	HYDROSEEDING WITH TACIFIER MAY BE USED IN LIEU OF MULCH.		
	GRADE AS NECESSARY TO BRING SUBGRADE TO A TRUE, SMOOTH SLOPE PARALLEL TO AND SIX INCHES BELOW FINISHED GRADE. PLACE TOPSOIL OVER SPECIFIED AREAS TO A DEPTH SUFFICIENTLY GREATER THAN SIX (6) OR EIGHT (8) INCHES SO THAT AFTER SETTLEMENT AND LIGHT ROLLING, THE COMPLETE WORK WILL CONFORM TO LINES, GRADES AND ELEVATIONS SHOWN.		
	FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE SOIL BY ROTOTILLING OR OTHER METHOD TO A MINIMUM DEPTH OF FOUR (4) INCHES. THE ENTIRE SURFACE SHALL THEN BE REGRADED AND ROLLED. AREAS TO BE SEEDED SHALL THEN BE LOOSENED TO A DEPTH OF TWO (2) INCHES. SEEDING SHALL BE DONE IN TWO SEPARATE OPERATIONS. THE SECOND SEEDING SHALL BE DONE IMMEDIATELY AFTER THE FIRST AND AT RIGHT ANGLES TO THE FIRST SEEDING AND LIGHTLY RAKED INTO THE SOIL. MULCH SEEDED AREAS IMMEDIATELY AFTER SEEDING.		
SEEDING DATES:	AUGUST 15 TO OCTOBER 1 OR APRIL 15 TO JUNE 30		

TABLE 11.2 SOIL AMENDMENT APPLICATION RATE EQUIVALENTS				
SOIL AMENDMENT	PERMANENT SEEDING APPLICATION RATE			NOTES
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	
AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-20-20 FERTILIZER	1,000 LB.	25 LB.	210 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
TEMPORARY SEEDING APPLICATION RATE				
AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
10-10-10 FERTILIZER	500 LB.	12.5 LB.	100 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES

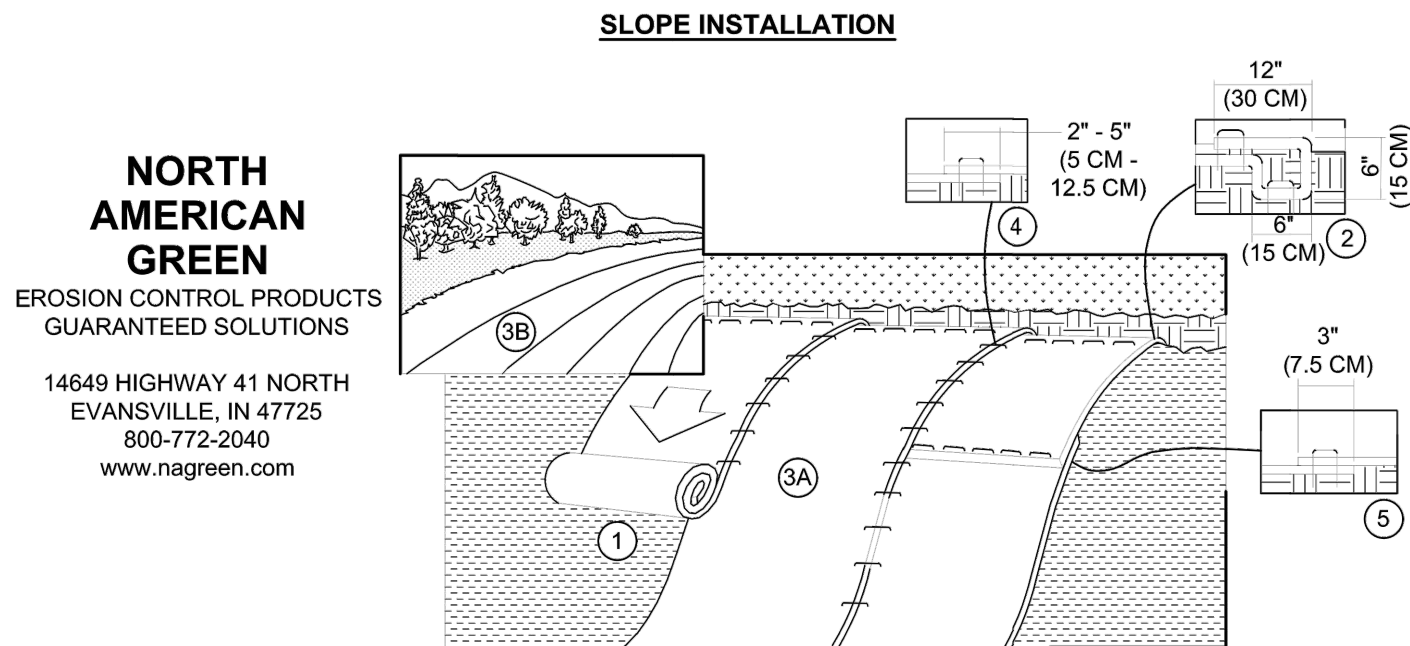
RECYCLING / DISPOSAL OF WASTES

- UPON COMPLETION OF THE PROJECT, RECYCLING OR DISPOSAL OF ALL TEMPORARY EROSION CONTROL MATERIALS SHALL BE THE RESPONSIBILITY OF THE EARTHMOVING CONTRACTOR
- CONSTRUCTION WASTE INCLUDES, BUT IS NOT LIMITED TO, EXCESS SOIL MATERIALS, SILT REMOVED FROM EROSION CONTROL FACILITIES, EXCESS BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, AND OBSOLETE EROSION CONTROL MATERIALS (SILT FENCE, SILT SACKS, ETC.). OBSOLETE EROSION CONTROL MATERIALS AND EXCESS BUILDING MATERIALS MUST BE DISPOSED OF AT A DEP APPROVED SITE.
- SILT REMOVED FROM SEDIMENT CONTROL FACILITIES SHALL BE SPREAD ON THE TOPSOIL STOCKPILE, OR IN LAWN OR LANDSCAPE AREAS.
- OBSOLETE EROSION CONTROL MATERIALS AND EXCESS BUILDING MATERIALS MUST BE DISPOSED OF AT A DEP APPROVED SITE.
- THERE WERE NO KNOWN NATURALLY OCCURRING GEOLOGIC FORMATIONS OR SOIL CONDITIONS LOCATED ON THE SITE THAT HAVE THE POTENTIAL TO CAUSE POLLUTION DURING CONSTRUCTION. IF SUCH CONDITIONS ARE ENCOUNTERED, STOP WORK AND CONTACT THE GEOGRAPHICAL ENGINEER AND/OR DEP.
- GEOLOGICAL ROCK FORMATIONS OR SOIL CONDITIONS THAT ARE IDENTIFIED BY THE GEOTECHNICAL ENGINEER ON SITE AS HAVE THE POTENTIAL TO DEGRADE WATER QUALITY WILL BE ISOLATED IN PLACE OR WILL BE RELOCATED ONSITE FOLLOWED BY APPROPRIATE CAPPING WITH AN IMPERVIOUS SURFACE SUCH AS PAVEMENT OR A BUILDING, OR WILL BE EXCAVATED AND REMOVED TO AN OFF-SITE DISPOSAL AREA APPROVED TO HANDLE HAZARDOUS WASTE. DEPENDING ON THE LEVEL OF CONTAMINATION, BLENDING OF SOIL MAY ACHIEVE ACCEPTABLE STANDARDS.



CONCRETE WASHOUT FACILITY

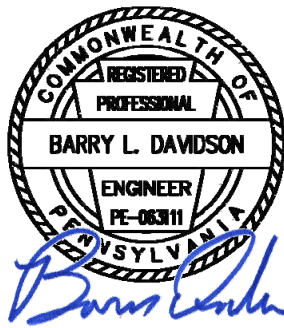
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- CONTRACTOR SHALL USE SC150 LINING BY NA GREEN OR AN APPROVED EQUAL ON ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1).
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING RECPs IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECPs BACK OVER SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECPs.
- ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON THE RECPs TYPE.
- CONSECUTIVE RECPs SPliced DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECPs WIDTH.
NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECPs.

EROSION CONTROL BLANKET

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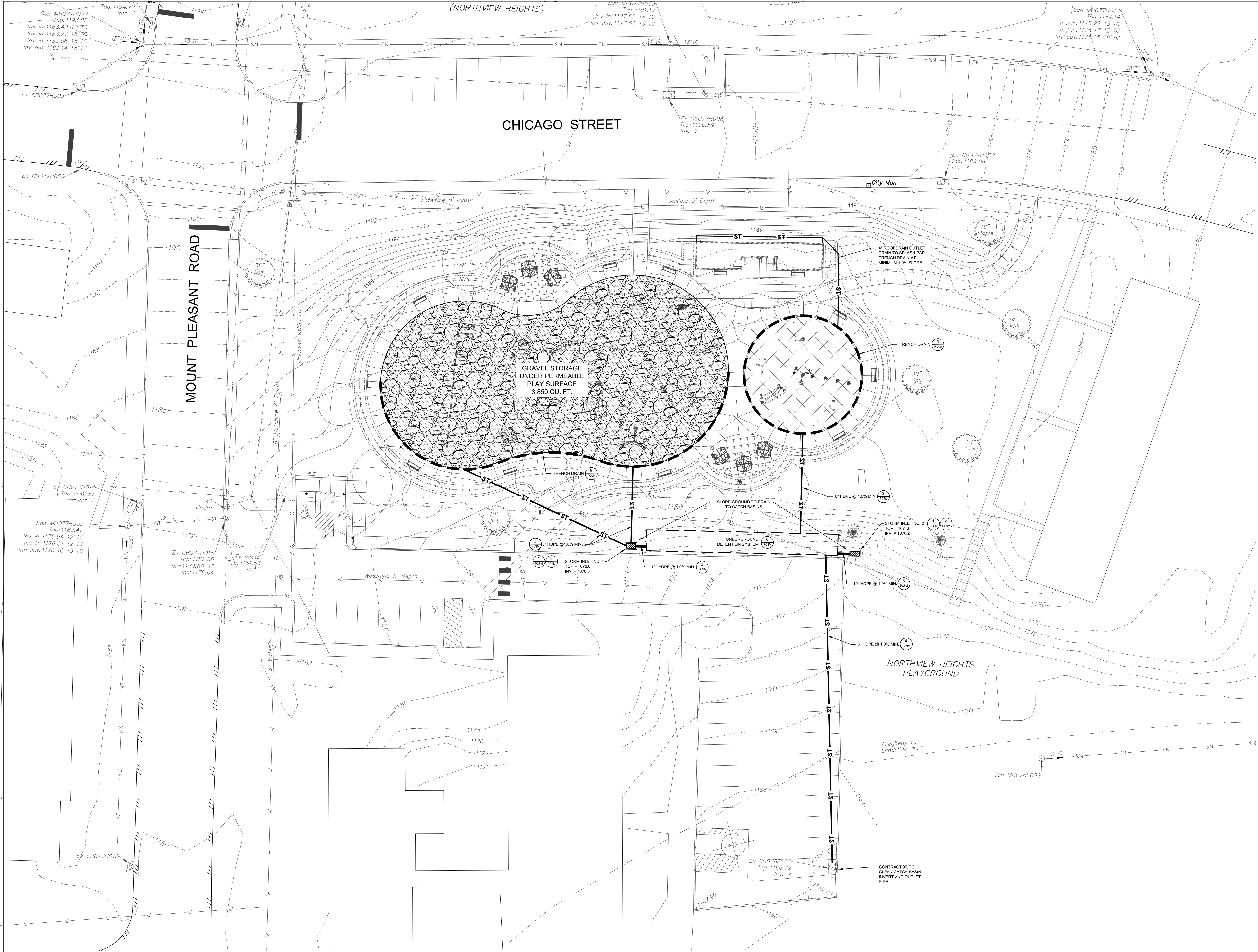


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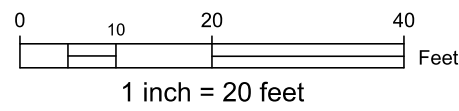
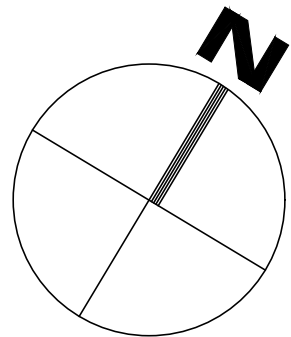
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EROSION & SEDIMENT CONTROL DETAILS		DRAWN BY SJD		REVISIONS
HACP NVH - Family Recreational Area 525Mt Pleasant Road, Pittsburgh, PA 15214		CHECKED BY BLD		
		DATE ISSUED OCT. 2024		
		DATE PRINTED OCT. 2024		
SHEET NUMBER:				
C604				

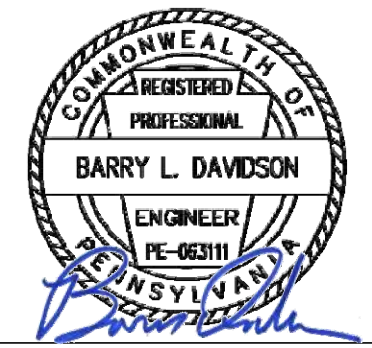


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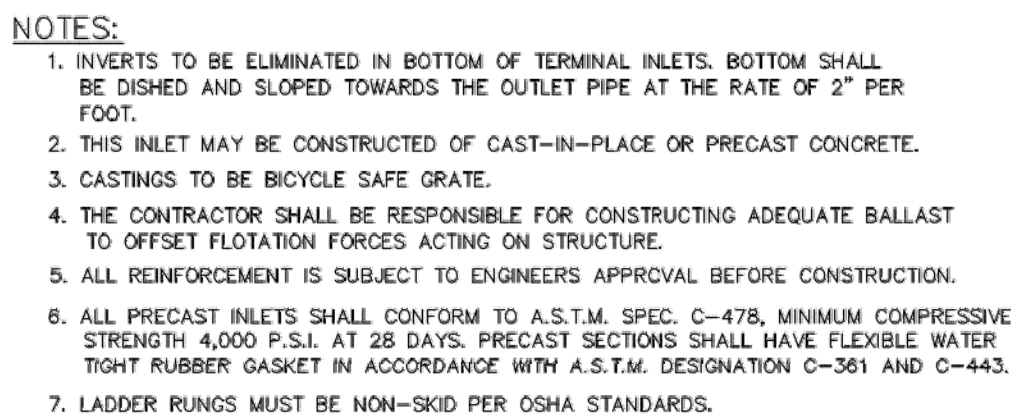
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REVISIONS			
DRAWN BY	CHECKED BY	DATE ISSUED	DATE PRINTED
SJD	BLD	OCT. 2024	OCT. 2024

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN	HACP NVH - Family Recreational Area 525Mt Pleasant Road, Pittsburgh, PA 15214
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SHEET NUMBER:

PCSM-1



N.T.S



N.T.S.

1. THIS DETAIL DEPICTS THE DIMENSIONS REQUIRED FOR UNIFORMITY AND INTERCHANGEABILITY. IT DOES NOT INCLUDE DETAILS REQUIRED FOR FABRICATION OR MANUFACTURING. ONLY GRATES SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15 SHALL BE PERMITTED.

- 2 STRUCTURAL STEEL GRATE BICYCLE SAFE
PCSM N.T.S.



NTS



N.T.S.



- SCALE:NTS



SCALE:NTS

GENERAL NOTES - DIVISION 1

1. THESE GENERAL DESIGN AND CONSTRUCTION NOTES ARE INTENDED TO BE INTERPRETED IN COMBINATION WITH THE PROJECT ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF ANY INCONSISTENCY, THE MORE STRINGENT REQUIREMENT SHALL APPLY. IN THE EVENT OF ANY QUESTION OF INTERPRETATION, THE DECISION OF THE ENGINEER SHALL PREVAIL.
2. ALL DETAILS, SECTIONS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS, UNO.
3. NO CHANGE IN SIZE, DIMENSION OR POSITION OF STRUCTURAL ELEMENTS SHALL BE MADE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
4. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION AND/OR SUBMITTING SHOP DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER OF RECORD.
5. REFER TO ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR DIMENSIONS AND LOCATIONS OF OPENINGS, INSERTS, DEPRESSIONS, EQUIPMENT PADS, DRIPS, REVEALS, FINISHES, AND OTHER SUCH PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. SUBMIT DIMENSION COORDINATED SHOP DRAWINGS SHOWING THE LOCATIONS OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES THROUGH STRUCTURAL ELEMENTS. ANY ADDITIONAL OPENINGS NOT SHOWN ON SHOP DRAWINGS WILL REQUIRE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
7. TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEW UTILITIES AND BUILDINGS AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE DURING CONSTRUCTION. RESTORATION OF DAMAGED AREAS SHALL BE TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
8. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, WATERPROOFING, LOCATIONS OF NON-LOAD BEARING PARTITIONS, EXTERIOR FACE OF BUILDING, ETC.
9. DO NOT REPRODUCE ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

CODES AND STANDARDS

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, APPLY TO THE DESIGN AND CONSTRUCTION OF THIS PROJECT:
- a. ICC, INTERNATIONAL BUILDING CODE - IBC 2018

b. ASCE 7-10, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

c. ACI 318-11, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

STRUCTURAL TESTS AND INSPECTIONS

1. STRUCTURAL TESTS AND INSPECTIONS SHALL COMPLY WITH THE REQUIREMENTS OF IBC 2009 CHAPTER 17, AND THE PROJECT SPECIFICATIONS.
2. THE PROJECT IS EXEMPT FROM THE REQUIREMENTS OF IBC 2009 SECTIONS 1704 & 1706 THRU 1709.

BUILDING LOADS

1. SEE LOAD TABLE THIS SHEET

FOUNDATIONS AND EARTHWORK - DIVISION 2

1. FOUNDATIONS
- a. FOUNDATION DESIGN IS BASE ON ALLOWABLE NET BEARING CAPACITY OF 2.0 KSF. NO SOIL REPORT WAS COMPLETED THEREFORE THE ALLOWABLE SOIL PRESSURE IS BASED OFF OF PRESUMPTIVE LOAD BEARING VALUE IN TABLE 1806.2 OF IBC 2018.

b. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER APPROX 48 HOURS BEFORE THE FIRST FOOTINGS ARE TO BE POURED AND SHALL NOT PROCEED UNTIL THE SUB-BASE CONDITIONS HAVE BEEN INSPECTED AND APPROVED BY THE ENGINEER.
2. SOIL SUPPORTED FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SUBGRADE AS INDICATED. SUBGRADE SHALL BE FREE OF ORGANIC MATERIAL, FROST, WATER AND UNSUITABLE SOIL.
3. EXTERIOR FOOTING SUBGRADES SHALL BE LOCATED A MINIMUM OF 42" BELOW FINAL GRADE FOR FROST CONSIDERATIONS.
4. AFTER THE EXCAVATED AREAS ARE CLEANED OF LOOSE MATERIAL AND PRIOR TO PLACING CONCRETE, THE SUBGRADE FOR ALL FOUNDATIONS AND SLABS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER.
5. UTILITIES SHALL NOT BE LOCATED BENEATH FOUNDATIONS UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.
6. PROVIDE 6" DIAMETER PERFORATED PVC OR CORRUGATED SLOTTED PE PIPE AT ALL PERIMETER FROST WALL FOUNDATION LOCATIONS. SEE FIGURE 6 IN GEOTECHNICAL REPORT FOR DRAINAGE AND BACKFILL REQUIREMENTS.

WOOD

- W-1. ALL WOOD DESIGN AND CONSTRUCTION TO CONFORM TO THE ANSI/NFOPA NDS-LATEST "SPECIFICATION FOR WOOD CONSTRUCTION".
- W-2. ALL WOOD MEMBERS SHOULD BE OF SOUTHERN YELLOW PINE No. 1 OR BETTER. FOR WOOD EXPOSED TO OUTSIDE ELEMENTS, PROVIDE TREATED LUMBER OF THE SAME GRADE.
- W-3. ALL TREATED LUMBER SHALL HAVE A PRESERVATION RETENTION OF 0.40 PCF FOR GROUND CONTACT AND 0.60 PCF FOR PERMANANT FOUNDATION APPLICATION.
- W-4. PRESERVATIVE USED SHALL CONFORM TO THE A.W.P.A. AND A.L.S.C. STANDARDS.
- W-5. ALL LUMBER SHALL HAVE THE TYPICAL QUALITY MARK FOR TREATED LUMBER SUCH THAT FIELD VERIFICATION CAN BE MADE.
- W-6. ALL MULTI-PLY LVL MEMBERS TO BE CINCHED PER MANUFACTURERS RECOMMENDATION PRIOR TO LOADING.
- W-7. ALL JOISTS TO BE FACE HUNG ON LVL'S USING SIMPSON JOIST HANGER FOR JOIST SIZE SPECIFIED.
- W-8. ALL ROOF SHEATHING TO BE MINIMUM 5/8" OSB. PROVIDE EXPANSION CLIPS AND KEEP DRY.

CAST-IN-PLACE-CONCRETE- DIVISION 3

1. PROVIDE CAST-IN-PLACE CONCRETE FOR EACH CLASS OF CONCRETE SHOWN IN THE CONCRETE MATERIAL SCHEDULE AND AS REQUIRED BY CONSTRUCTION METHODS & SCHEDULES.
2. REINFORCING SHALL BE AS FOLLOWS:

a. CONVENTIONAL DEFORMED REINFORCING BARS NOT INDICATED TO BE WELDED-ASTM A615, GRADE 60.

b. CONVENTIONAL DEFORMED REINFORCING BARS INDICATED TO BE WELDED-ASTM A615, GRADE 60.

c. WELDED WIRE REINFORCEMENT-ASTM A185, SUPPLIED IN FLAT SHEETS.
3. CONCRETE COVER OVER REINFORCING SHALL BE AS FOLLOWS, UNO:

CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH OR WEATHER-3". 3

REINFORCING IN SLABS & WALLS NOT EXPOSED TO EARTH OR WEATHER-". 41

REINFORCING EXPOSED TO EARTH OR WEATHER- #5 & SMALLER - 1", #6 & LARGER - 2". 21

COVER TO STIRRUPS & TIES IN BEAMS & COLUMNS - 1". 2
4. SPLICE REINFORCING BARS PER ACI 318 WITH CLASS B TENSION LAP SPLICES, UNO. LAP LENGTHS ARE INDICATED THE REINFORCING BAR DEVELOPMENT LENGTH TABLE NOTES.
5. WWR SHALL BE SPLICED PER ACI 318 AND TIED SECURELY.
6. DOWELS SHALL MATCH AND BE CLASS B TENSION LAP SPLICED W/THE MAIN REINFORCING, UNO.
7. WHERE REINFORCEMENT IS NOT PROVIDED CONTACT THE STRUCTURAL ENGINEER OF RECORD.
8. FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT PERMITTED UNLESS INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD. REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.
9. DO NOT WELD REINFORCING UNLESS INDICATED OR APPROVED IN WRITING, BY THE STRUCTURAL ENGINEER OF RECORD.
10. ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED, CLEANED, AND COATED WITH A BONDING AGENT OR MOISTENED WITH CEMENT SLURRY SCRUBBED INTO THE JOINT IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
11. PROVIDE A WATERSTOP IN ALL WALLS AND SLAB CONSTRUCTION JOINTS EXPOSED TO EARTH OR WEATHER, COVERED WITH A WATERPROOF MEMBRANE AND WHERE INDICATED.
12. CONTRACTOR SHALL PROVIDE THE FOLLOWING CAST-IN-PLACE SUBMITTALS:

a. DETAIL DRAWINGS SHOWING LOCATIONS AND DETAILS OF CONSTRUCTION JOINTS, CURBS, SHELVES, SLEEVES AND OPENINGS. COORDINATE WITH SHOP DRAWINGS FOR REINFORCING STEEL.

b. SHOW ELEVATIONS OF WALLS WITH TOP AND BOTTOM ELEVATIONS, OPENINGS AND LEDGES.

c. REINFORCING SHOP DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF ACI 315 AND ACI SP-66.

d. REINFORCING SHOP DRAWINGS SHALL SHOW REBAR REINFORCING SO IT CAN BE CUT, BENT AND PLACED FROM THE INFORMATION SHOWN.

e. THE SHOP DRAWINGS SHALL ALSO SHOW THE LOCATIONS AND LENGTHS OF SPLICES. COORDINATE SPLICE LOCATIONS WITH CONSTRUCTION JOINT LOCATIONS. SHOW DOWELS ON DRAWINGS OF WORK THAT IS TO BE PLACED FIRST.

SLABS ON GRADE

1. UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS, SLABS-ON-GRADE SHALL BE 8" THK POURED CONCRETE, REINFORCED WITH 4 x 4-w4.0 x W4.0 WELDED WIRE FABRIC.
2. A COMPACTED SUB-BASE FOR THE FLOOR SLAB SHALL BE PROVIDED, CONSISTING OF A 12" LAYER OF OGS NO. 57 STONE, CHOKED WITH 2" OF ASSHTO NO. 10 AT THE TOP.
3. A VAPOR BARRIER CONSISTING OF MINIMUM 10-MIL POLYVINYL OR EQUIVALENT SHALL BE INSTALLED BETWEEN THE SUBGRADE AND THE CONCRETE SLAB IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE.
4. SLABS SHALL BE POURED IN LONGITUDINAL STRIPS WITH KEYED CONSTRUCTION JOINTS. CONTROL JOINTS SHALL BE PLACED AT SPACINGS INDICATED ON PLAN OR NO MORE THAN 20 FEET APART. ALLOW A MINIMUM OF 48 HOURS BETWEEN ADJACENT CONCRETE PLACEMENTS. IF LOCATION NOT NOTED ON PLAN, SLAB AREAS BETWEEN CONTROL JOINTS AND CONSTRUCTION JOINTS SHALL NOT EXCEED 400'.
5. ALL CONSTRUCTION JOINTS AND JOINTS BETWEEN SLAB AND TRENCH SHALL HAVE A SIKa WESTEC CHEMICAL RESISTANT WATERSTOP INSTALLED OR EQUAL.

REINFORCEMENT BAR DEVELOPMENT LENGTHS (INCHES)								
BAR SIZE	4000 PSI				4500 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	19	28	14	21	18	27	14	20
#4	25	37	19	28	24	35	18	34
#5	31	46	24	36	30	44	23	27
#6	37	56	28	43	35	53	27	41
#7	54	81	42	62	51	77	40	59
#8	62	93	48	71	59	88	46	68
#9	70	105	54	81	67	100	51	77

1. TOP BARS ARE DEFINED BY ACI 318-11.
2. CASE 1: CLEAR SPACING OF BARS DEVELOPED OR SPLICED NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db.
- CASE 2: BARS DEVELOPED OR SPLICED WITH CLEAR COVER AND/OR SPACING NOT MEETING THE REQUIREMENTS OF CASE 1.
3. SPLICE LENGTHS

A. CLASS A TENSION SPLICE = 1.0 Ld, 12" MIN.

B. CLASS A TENSION SPLICE = 1.3 Ld, 12" MIN.
4. DEVELOPMENT AND SPLICE LENGTHS OF EPOXY COATED BARS SHALL BE 1.5 TIMES THE LENGTHS REQUIRED FROM NON-EPOXY COATED REINFORCEMENT.

MATERIAL SCHEDULE AND CONCRETE MIX DESIGN TABLE								
MEMBER	f'c	W/C	EXPOSURE CATEGORY				ENTRAINED AIR CONTENT	
			F	S	P	C	¾" AGGREGATE	1" AGGREGATE
FOOTINGS	4500 PSI	.45	F2	S0	P0	C1	6 +/- 1.5%	6 +/- 1.5%
PIERS	4500 PSI	.50	N/A	N/A	N/A	N/A	N/A	N/A

- NOTES
1. PROVIDE CONCRETE MIXES IN ACCORDANCE WITH ACI 301 FOR THE EXPOSURE CATEGORIES IDENTIFIED IN THE ABOVE TABLES.
2. MAXIMUM WATER-CEMENT (W/C) RATIOS INDICATED IN THE TABLE SHALL INCLUDE WATER FROM ADMIXTURES IN W/C CALCULATIONS.
3. DO NOT AIR-ENTRAIN CONCRETE DESIGNATED TO RECEIVE STEEL TROWEL FINISH.

ABBREVIATIONS

ABV	ABOVE	FP	FIRE PROTECTION	SC	SLIP CRITICAL
ACI	AMERICAN CONCRETE INSTITUTE	GALV	GALVANIZE	SDI	STEEL DECK INSTITUTE
ADD'L	ADDITIONAL	GL	GRIDLINE	SDL	SUPERIMPOSED DEAD LOAD
AE	AIR-ENTRAINED	H	HIGH OR HORIZONTAL	SEC	SECONDS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	HK	HOOK	SIM	SIMILAR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HORIZ	HORIZONTAL	SOG	SLAB-ON-GRADE
APPROX	APPROXIMATELY	HP	HIGH POINT	STD	STANDARD
AR	ANCHOR ROD	HS	HIGH STRENGTH	SJI	STEEL JOIST INSTITUTE
ARCH	ARCHITECTURAL	HSA	HEADED SHEAR ANCHOR	STL	STEEL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	IN	INCH(ES)	STRUCT	STRUCTURAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	IP	INFLECTION POINT	T	TOP OR TREAD
AWS	AMERICAN WELDING SOCIETY	I.F.	INSIDE FACE	T/	TOP OF
B	BOTTOM	I.J.	ISOLATION JOINT	TOF	TOP OF FOOTING
B/	BOTTOM OF	JT	JOINT	TOS	TOP OF STEEL
BLDG	BUILDING	K	KIPS (1000 POUNDS)	THK	THICK
BM	BEAM	kN	KILONEWTON	TMS	THE MASONRY SOCIETY
BOT	BOTTOM	kPa	KILOPASCAL	TYP	TYPICAL
CJP	COMPLETE JOINT PENETRATION	I	LITER	UNO	UNLESS NOTED OTHERWISE
C.J.	CONTROL JOINT	L	LENGTH		VERTICAL
CLR	CLEAR	LBS	POUNDS	VERT	VERTICAL
CLSM	CONTROLLED LOW STRENGTH MATERIAL	Ld	REINF BAR DEVELOPMENT LENGTH	W/C	WATER-CEMENTITIOUS MATERIAL RATIO
CMU	CONCRETE MASONRY UNIT	LLH	LONG LEG HORIZ	W	WIDTH
CO	CLEAN OUT	LLV	LONG LEG VERT	WD	WOOD
COL	COLUMN	LP	LOW POINT	WP	WORK POINT
CONC	CONCRETE	LTWT	LIGHT WEIGHT	WWR	WELDED WIRE REINFORCEMENT
CONT	CONTINUOUS	m	METER		
COORD	COORDINATE	mm	MILLIMETER		
CST.	CONSTRUCTION JOINT	MAX	MAXIMUM		
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE	MANUF	MANUFACTURER		
	REINFORCING BAR DIAMETER	MECH	MECHANICAL		
db	DIAMETER	MEP	MECH/ELECT/PLUMBING		
DIA	DOWN	MIN	MINIMUM		
DN	DETAILS	MTL	METAL		
DTLS	DRAWING	NLWT	NORMAL WEIGHT		
DWG	DOWELS	(N)	NEW		
DWLS	EACH	OC	ON CENTER		
EA	EACH FACE	OPNG	OPENING		
EF	ELEVATION	OPP	OPPOSITE		
EL	ELECTRICAL	O.F.	OUTER FACE		
ELECT	ELEVATOR	PIP	PARTIAL JOINT PENETRATION		
ELEV	EMBEDMENT	PSF	POUNDS PER SQAURE FOOT		
EMBED	EDGE OF SLAB	PSI	POUNDS PER SQAURE INCH		
EOS	EDGE OF FROST WALL FROM GRID LINE	PT	POST-TENSION		
EOW	EQUAL	R	RISER		
EQ	EQUIPMENT	REF	REFERENCE		
EQUIP	EACH WAY	REINF	REINFORCING OR REINFORCEMENT		
EW	EXISTING	REQ'D	REQUIRED		
(E)	EXPANSION	SCHED	SCHEDULE		
EXP	FOOT/FEET				
FT	FOOTING				
FTG					

2021 IBC DESIGN LOAD TABLE		
DESCRIPTION	TYPE	LOAD
SNOW LOAD (BASIC)	SNOW	25 PSF
SNOW PACK	PER ASCE 7-10	
LIVE LOAD – ROOF*	LIVE	30 PSF
HORIZ. WIND	WIND	18 PSF
EXPOSURE	C	V ₀ = 115MPH
MCE*	LIVE	10.0
RISK CATEGORY	II	N/A

*CITY OF PITTSBURGH AMENDMENT REQUIRES 30 PSF OF LIVE LOAD APPLIED TO ROOF



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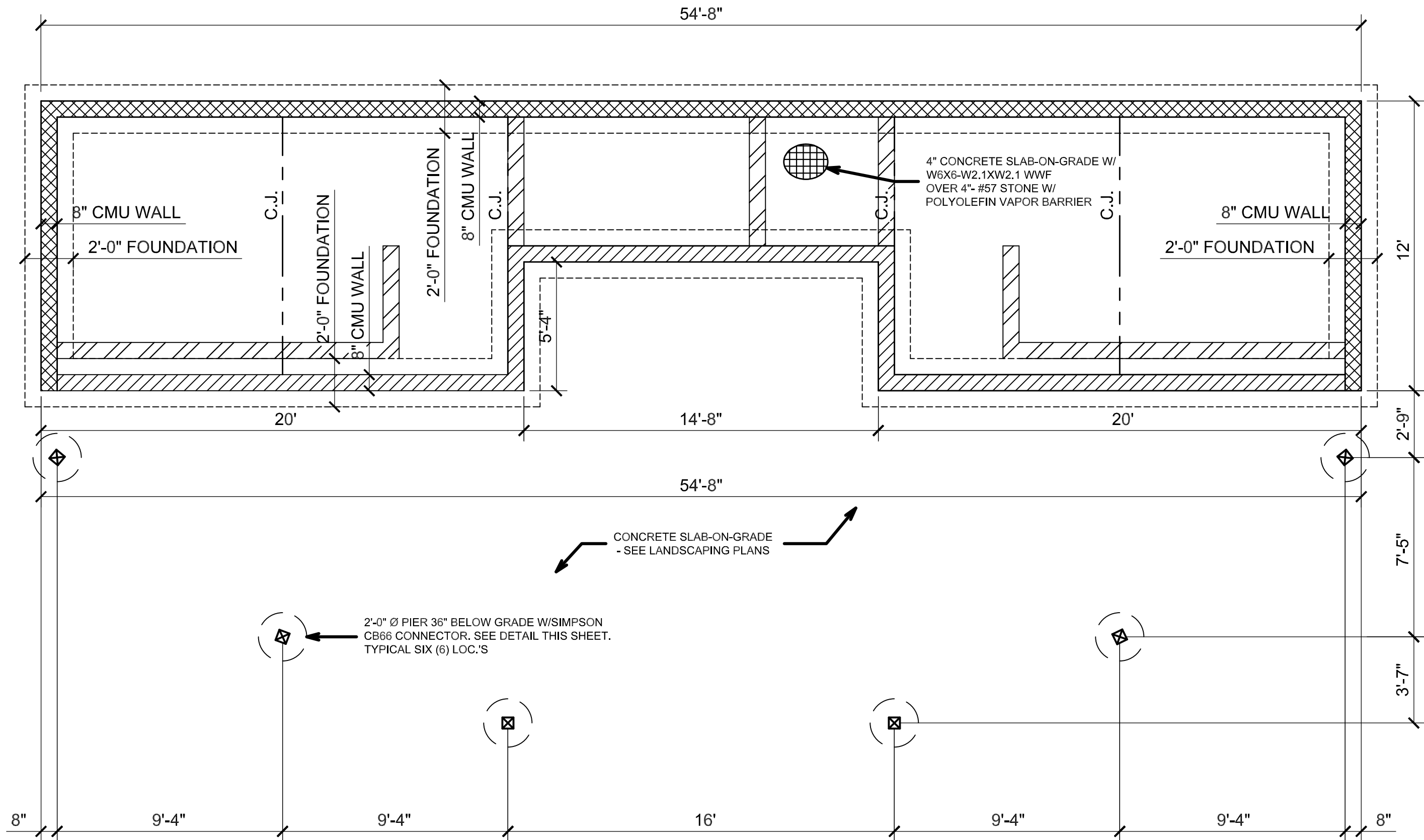
DATE PRINTED
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RESTROOM GENERAL NOTES

HACP NVH - Family Recreational Area
525 Mt Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:

S1.0

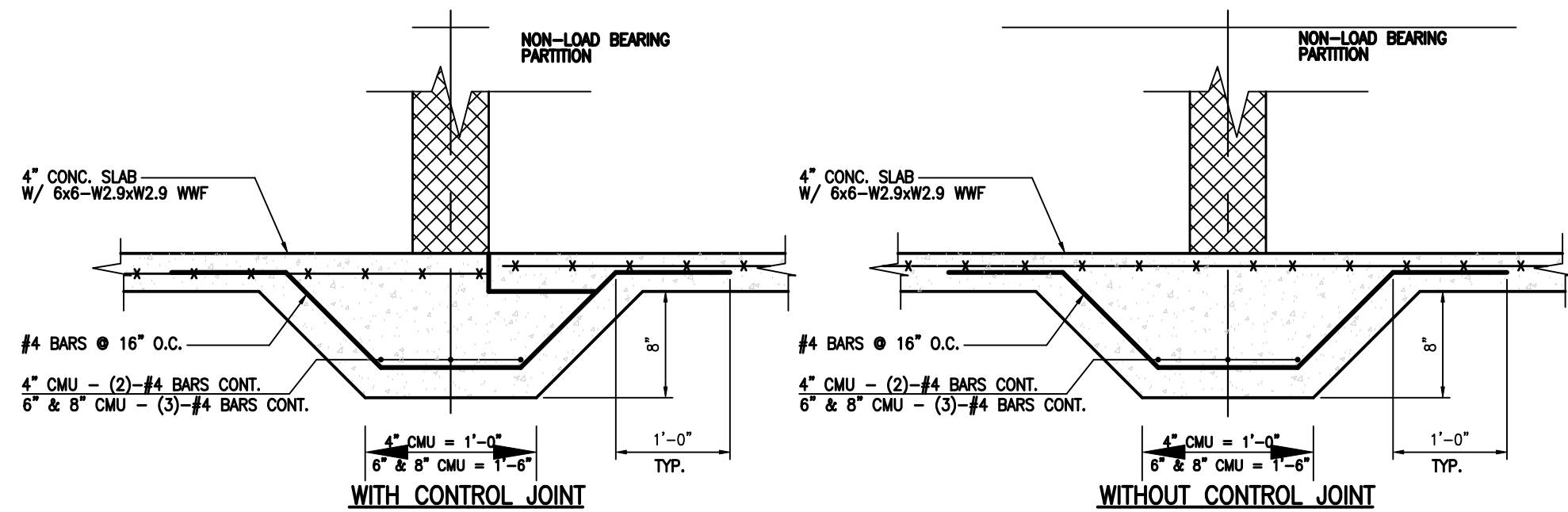


RESTROOM - FOUNDATION SLAB PLAN

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

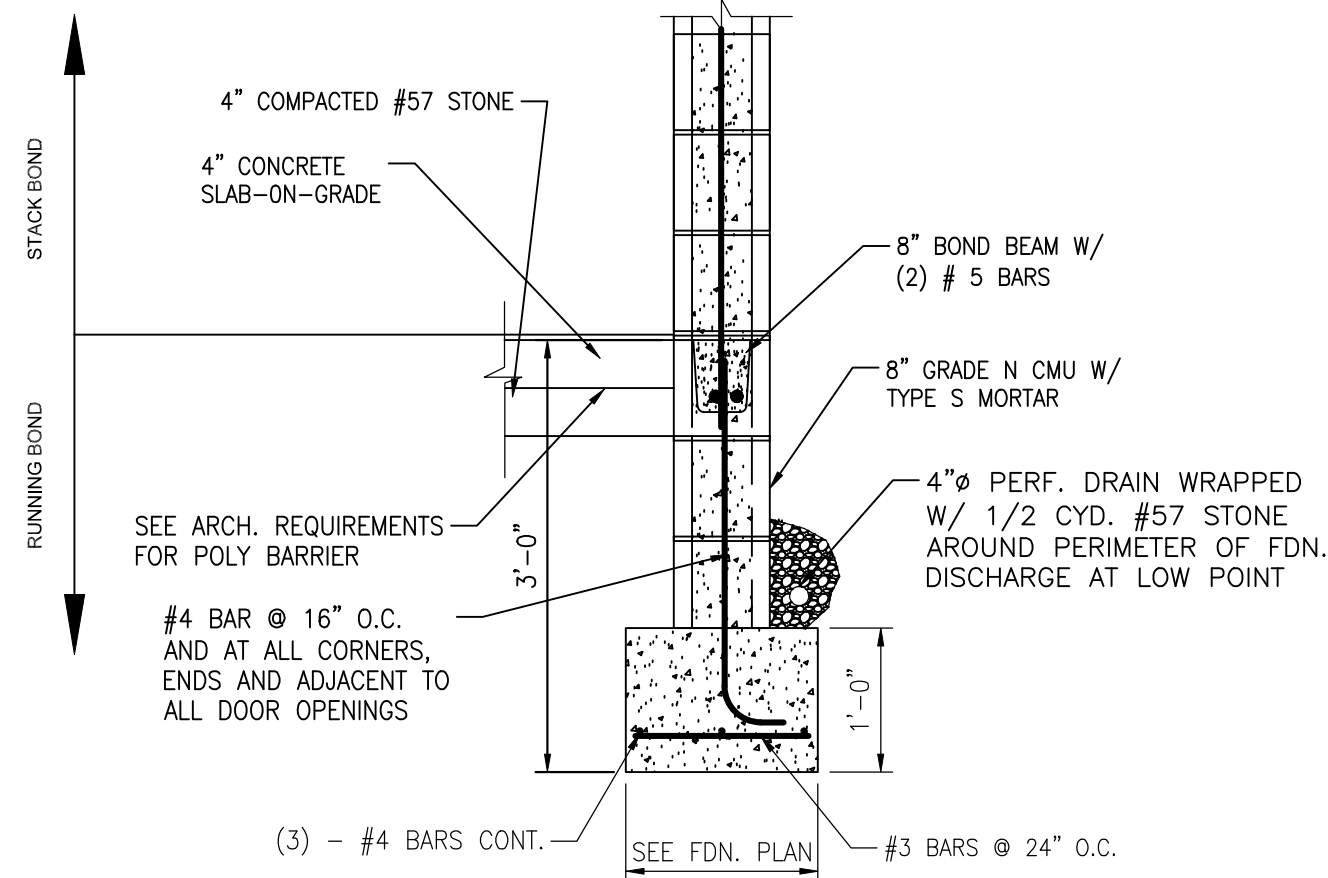
PLAN NOTES:

- CONTRACTOR TO FIELD VERIFY DIMENSIONS AND NOTIFY ENGINEER OF DISCREPANCIES.
- FOUNDATION DESIGN IS BASE ON ALLOWABLE NET BEARING CAPACITY OF 2.0 KSF. NO SOIL REPORT WAS COMPLETED THEREFORE THE ALLOWABLE SOIL PRESSURE IS BASED OFF OF PRESUMPTIVE LOAD BEARING VALUE IN TABLE 1806.2 OF IBC 2018.
- SEE SHEET S1.0 FOR RELATED NOTES & DETAILS.
- FOR 6" THICK MASONRY WALLS NOTED THUS: [Hatched Pattern]. SEE THICKENED SLAB DETAIL THIS SHET.



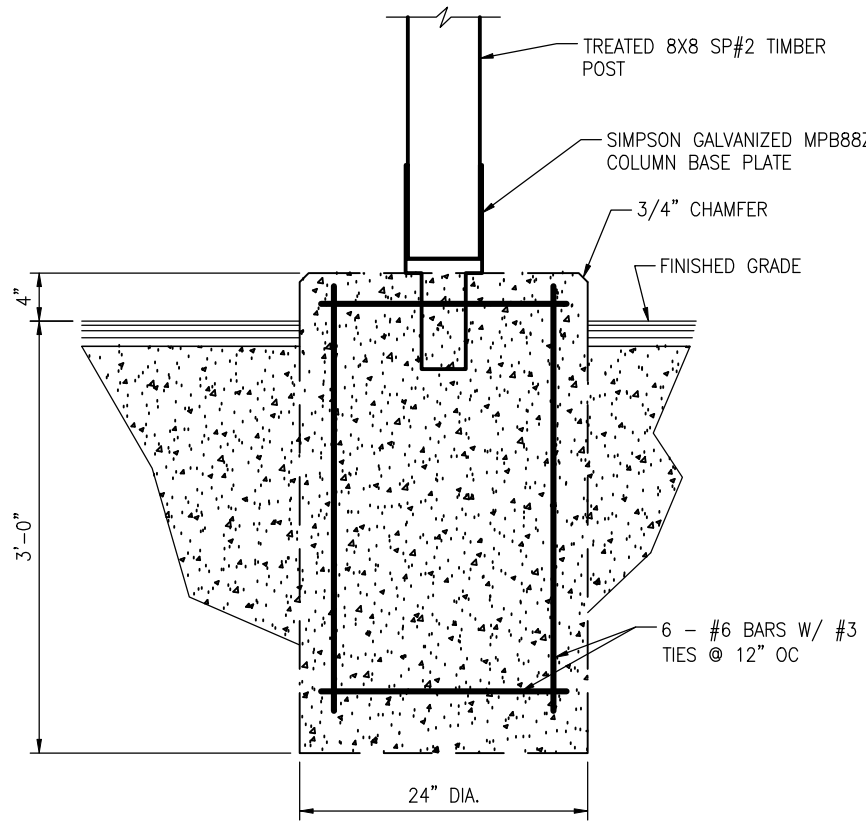
TYPICAL NON-LOAD BEARING WALL SECTION

SCALE: 3/4" = 1'-0"



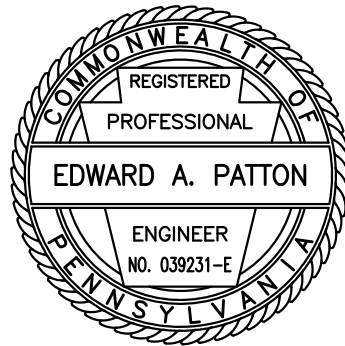
FOUNDATION SECTION VIEW

SCALE: 3/4" = 1'-0"



PIER SECTION VIEW

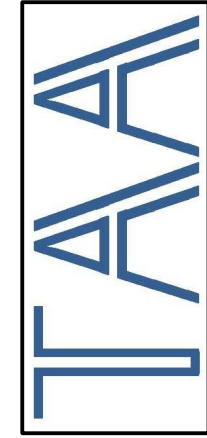
SCALE: 3/4" = 1'-0"



Signature of Edward A. Patton

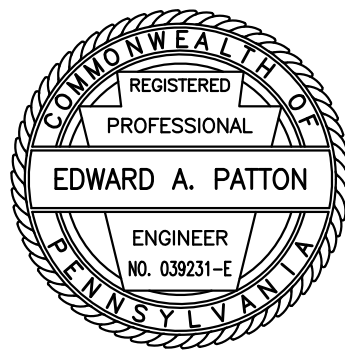
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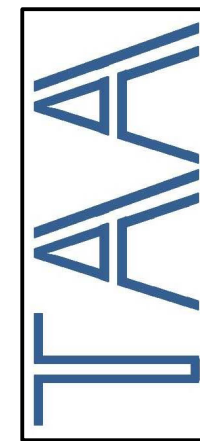
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RESTROOM FOUNDATION SLAB PLANS			
HACP NVH - Family Recreational Area 525 Mt Pleasant Road, Pittsburgh, PA 15214			
SHEET NUMBER: S1.1			



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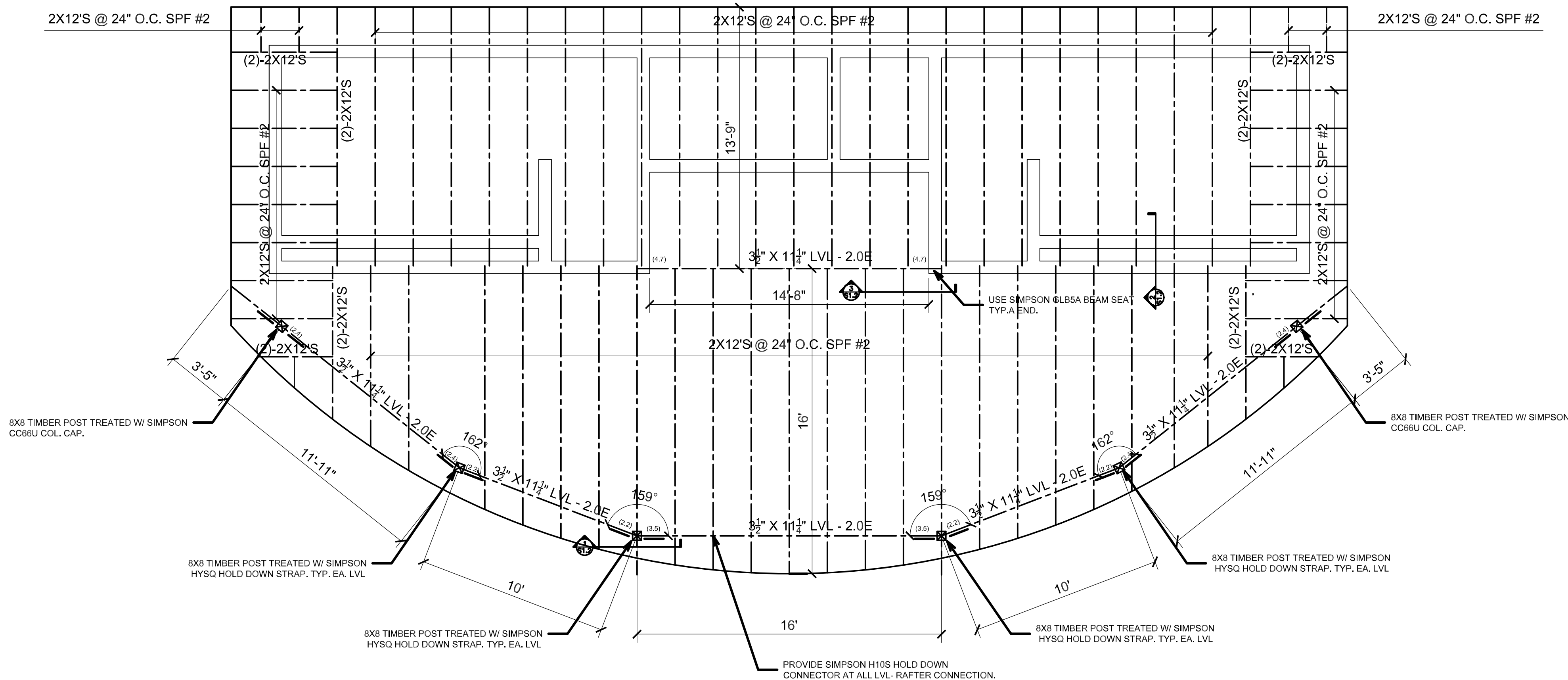
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RESTROOM ROOF FRAMING PLAN

HACP NVH - Family Recreational Area
525 Mt Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:

S1.2

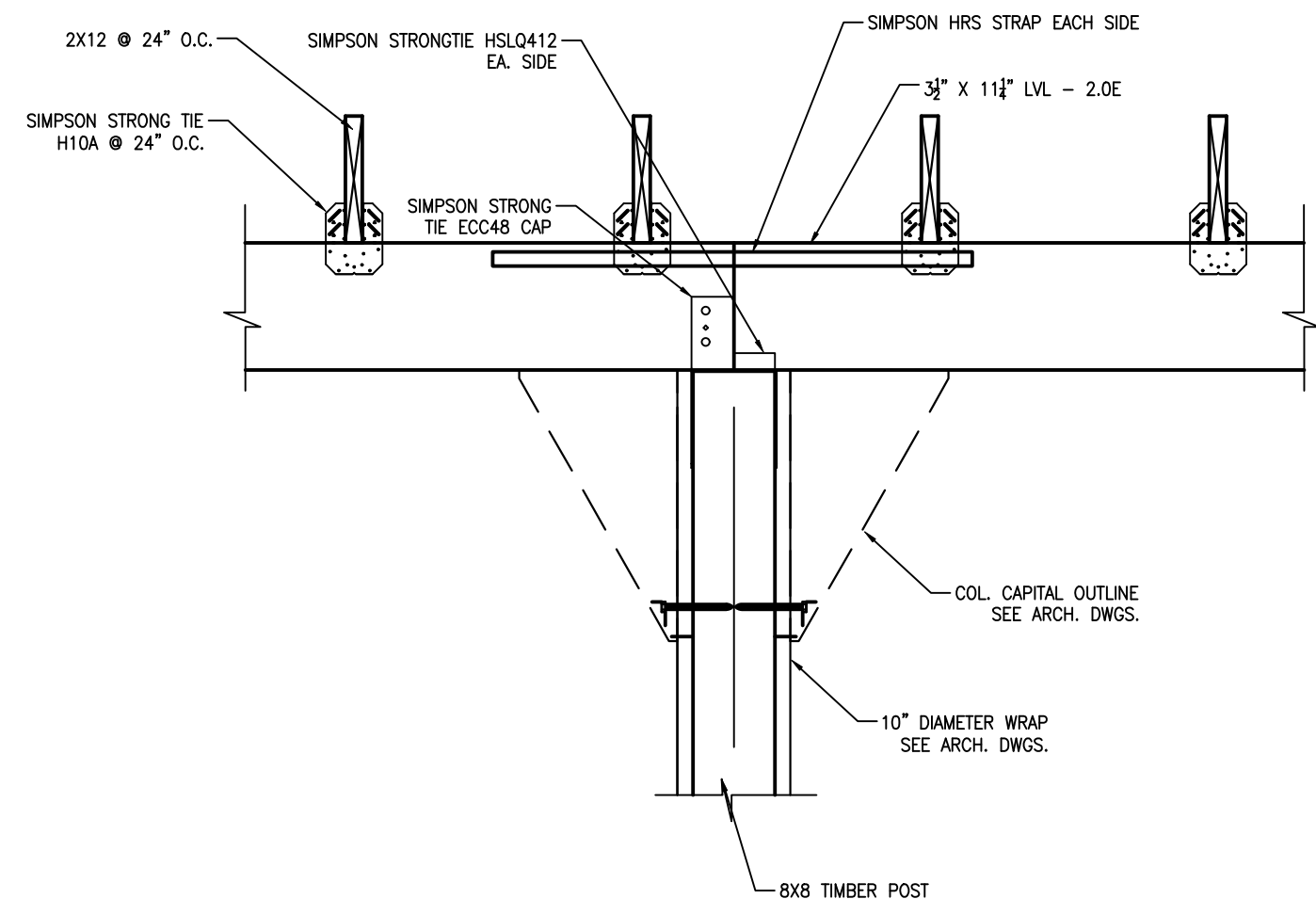


RESTROOM - ROOF FRAMING PLAN

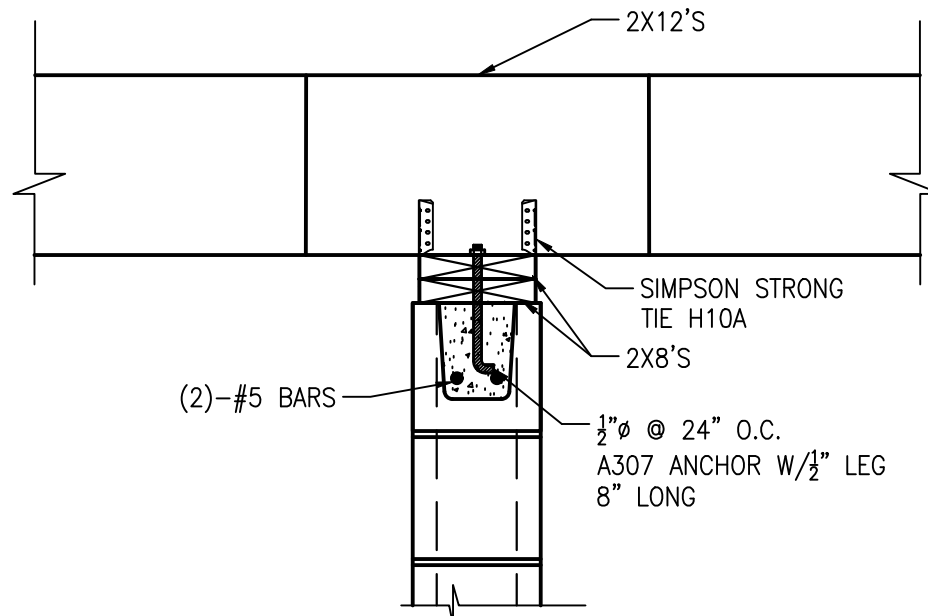
SCALE: 1/4" = 1'-0"

PLAN NOTES:

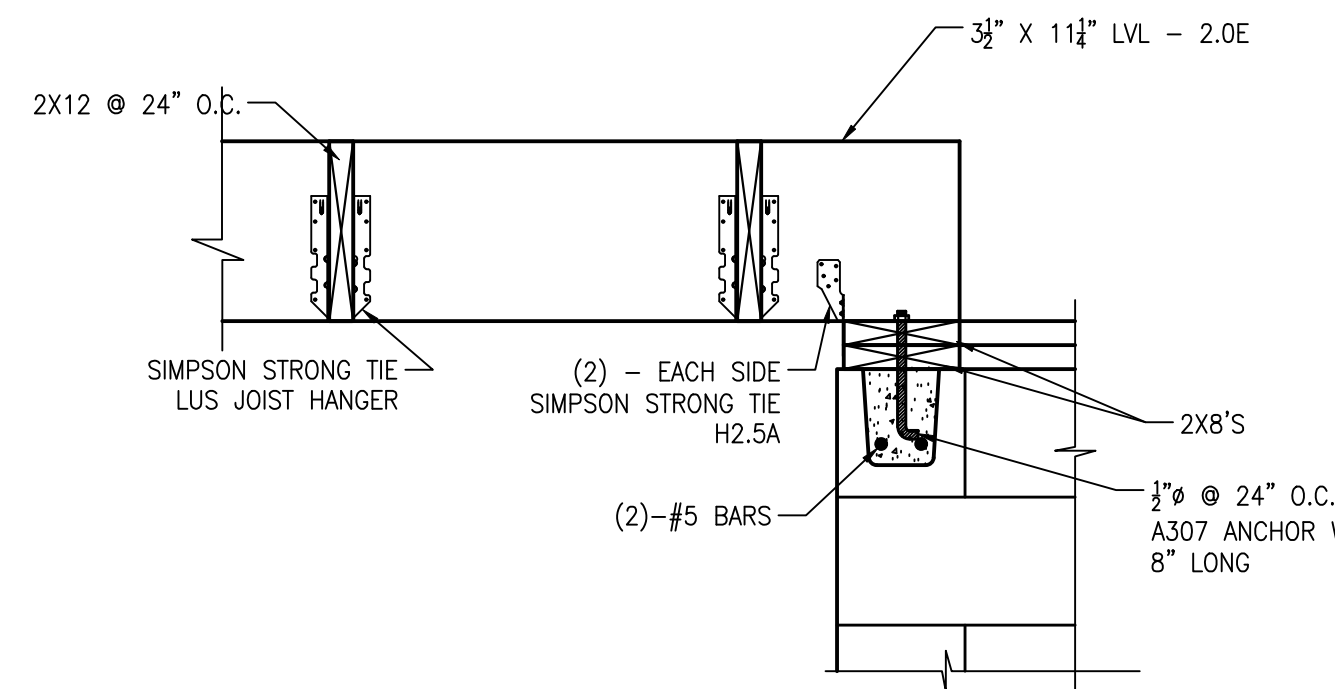
1. SEE SHEET S1.0 FOR RAFTER LOAD REQUIREMENTS AND RELATED NOTES & DETAILS.
2. ALL EXTERIOR WOOD TO BE TREATED UNLESS WRAPPED AND PROTECTED.
3. ALL RAFTERS TO RECEIVE HOLD DOWN STRAP TO RESIST 1200 LBS UPLIFT FORCE.
4. ROOF SHEATHING TO BE 5/8" OSB.
5. ALL LVL MEMBERS TO BE 2.0E OR BTR.
6. KNEE BRACE NOTED THUS [K.B.] SEE DETAIL THIS SHEET.



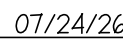
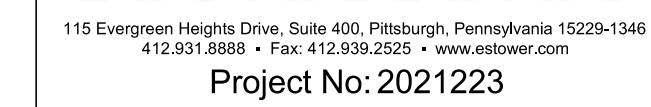
1
S1.2 SECTION
SCALE: 3/4" = 1'-0"



2
S1.2 SECTION
SCALE: 1" = 1'-0"

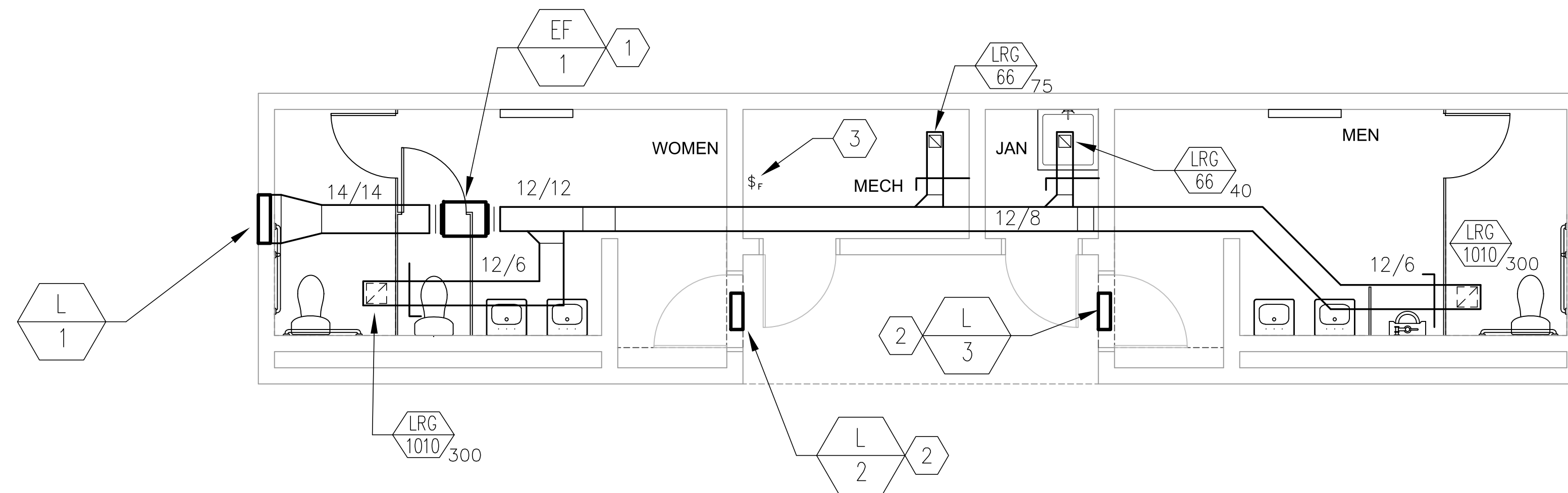


3
S1.2 SECTION
SCALE: 1" = 1'-0"



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CODED NOTES: (THIS DRAWING)

- ① HC SHALL PROVIDE ACCESS DOOR FOR EXHAUST FAN LOCATED ABOVE CEILING
- ② PROVIDE LOUVER ABOVE DOOR AND BELOW RESTROOM CEILING.
- ③ THE HC SHALL PROVIDE A MANUAL WALL SWITCH AND ALL INTERCONNECTING CONTROL WIRING BETWEEN THE ON/OFF SWITCH AND EXHAUST FAN EF-1. COORDINATE LOCATION OF SWITCH WITH OWNER AND ARCHITECT.

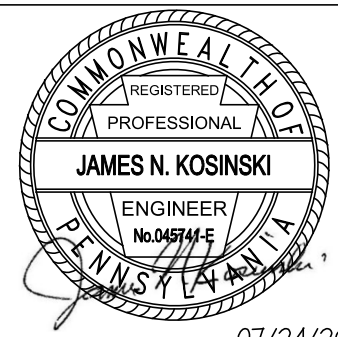
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HVAC NEW WORK PLAN

HACP NVH - Family Recreational Area
525 Mt Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:

H1.0



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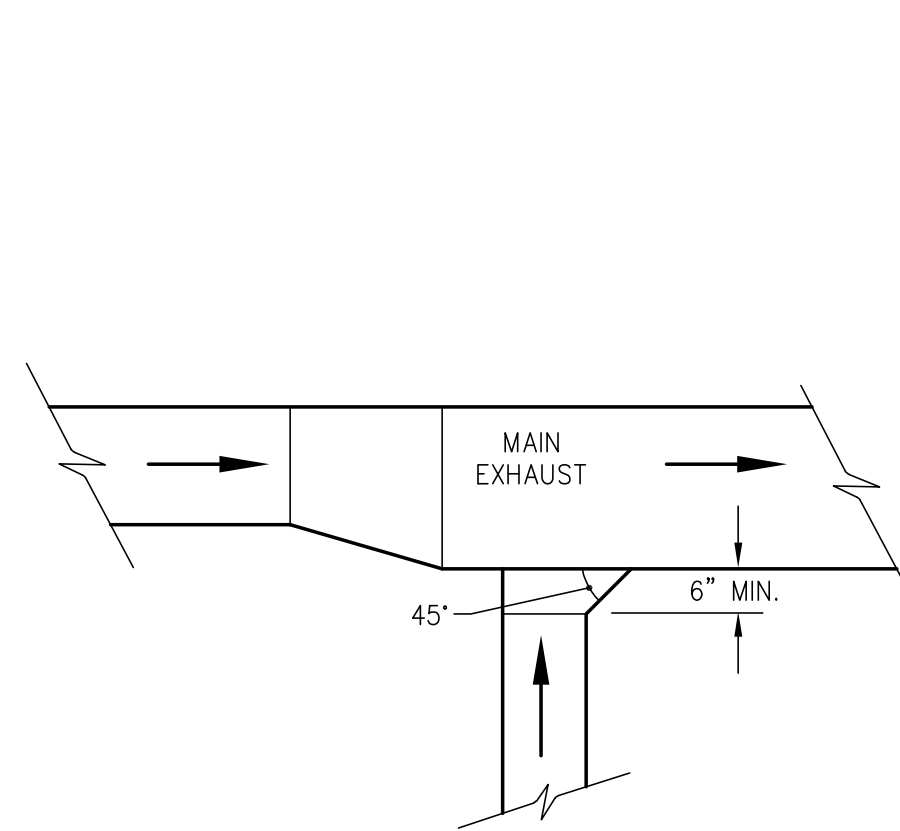
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HVAC DETAILS & SCHEDULES

HACP NVH - Family Recreational Area
525 Mt Pleasant Road,
Pittsburgh, PA 15214

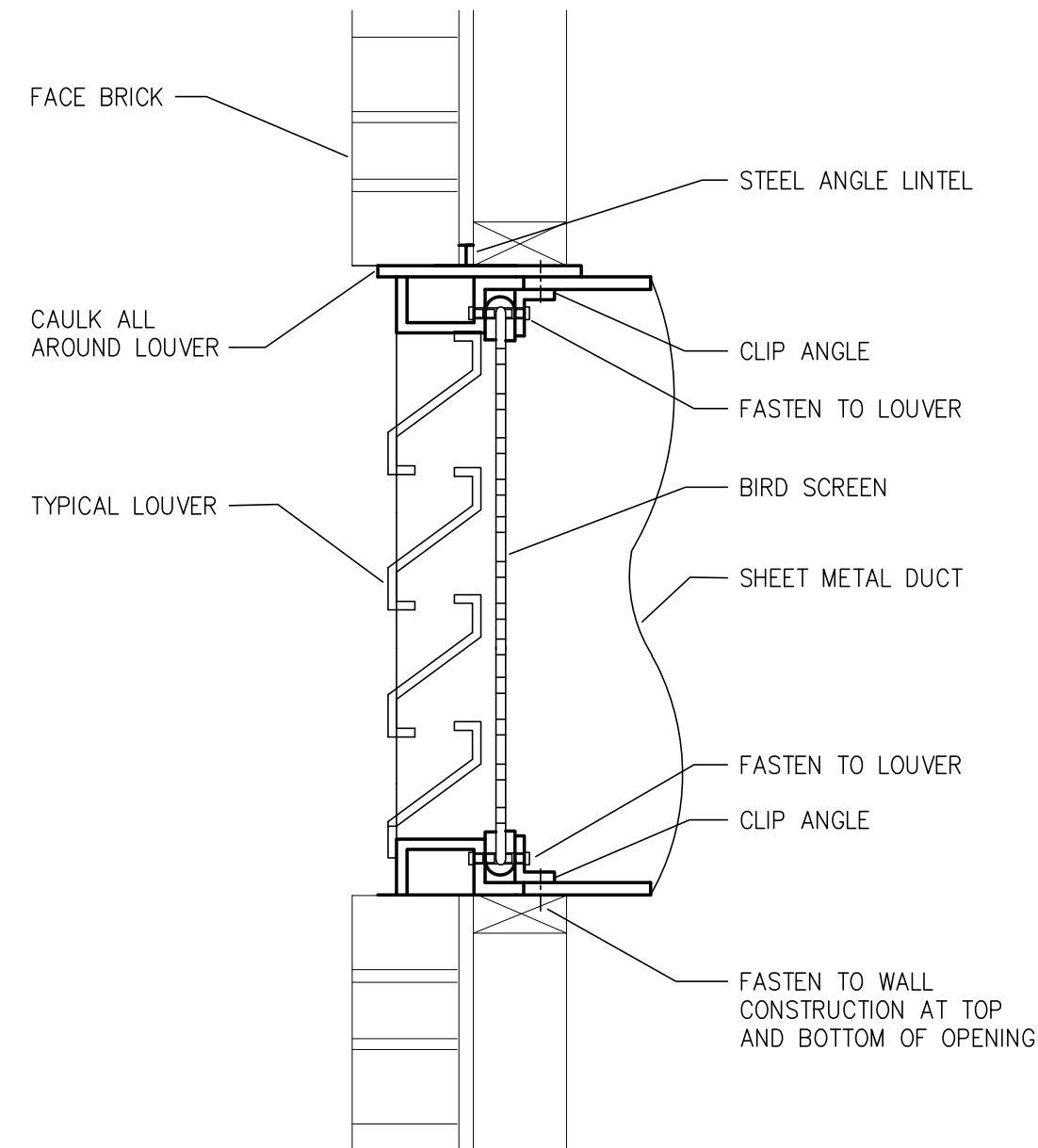
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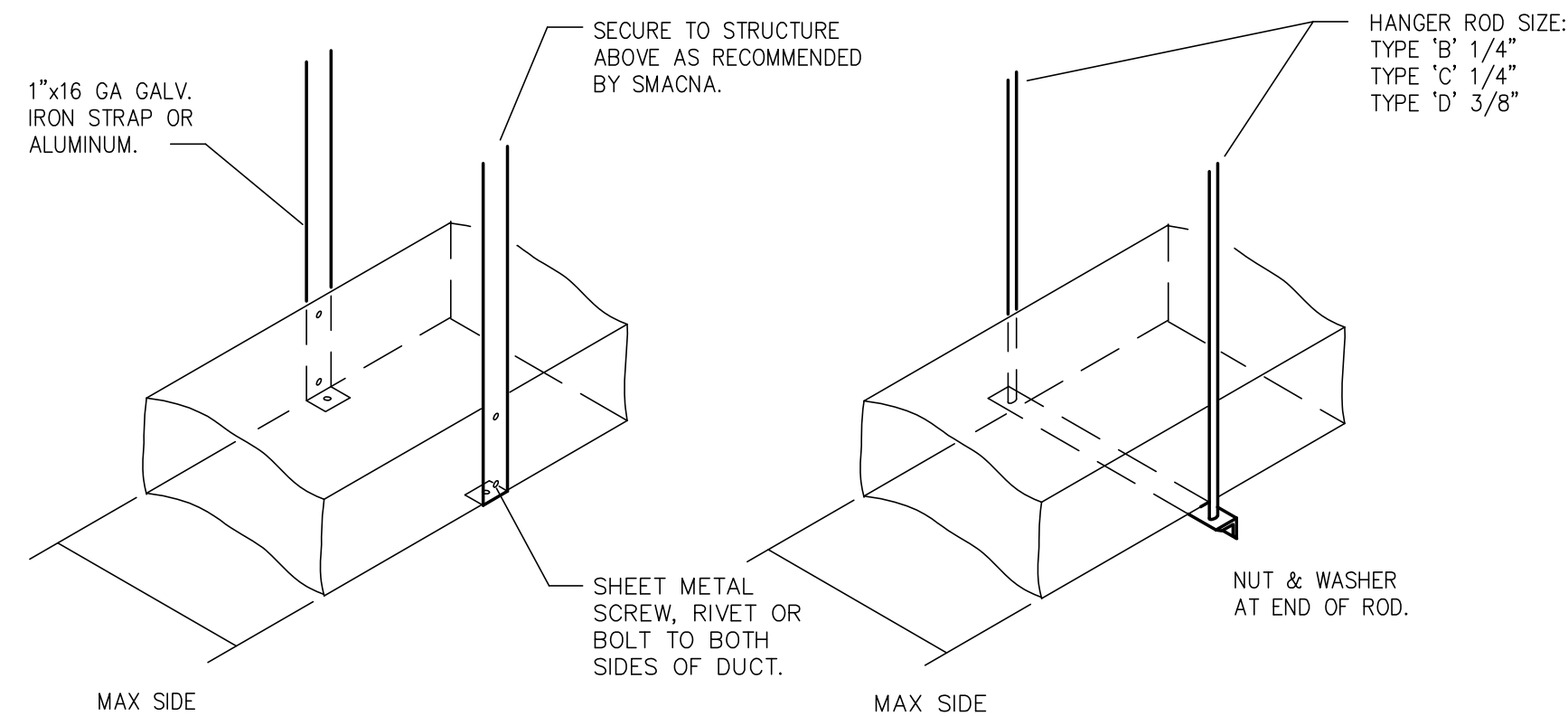
PLAN VIEW—EXHAUST BRANCH DUCT DETAIL

NO SCALE



LOUVER IN MASONRY WALL DETAIL

NO SCALE



TYPE 'A'

8 FT. MAX. HANGER SPACING
ALSO PROVIDE 3 HANGERS AT
EACH TAKEOFF OR BRANCH.

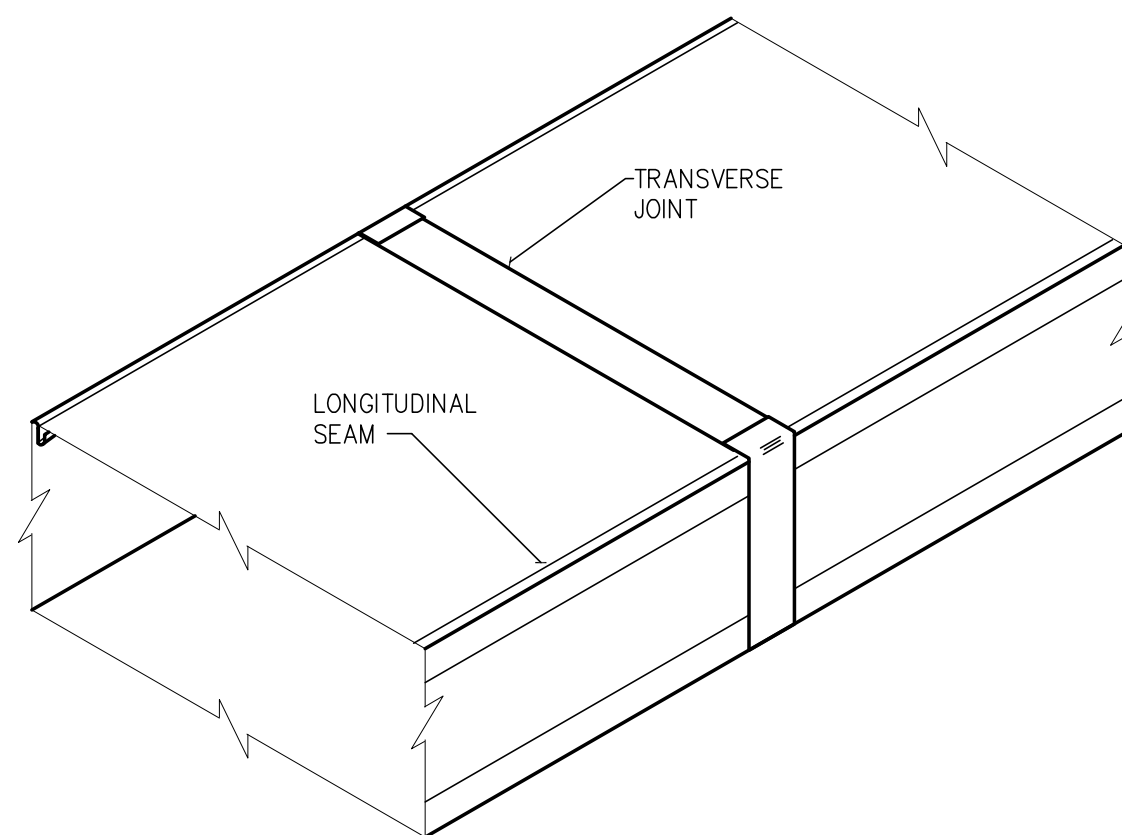
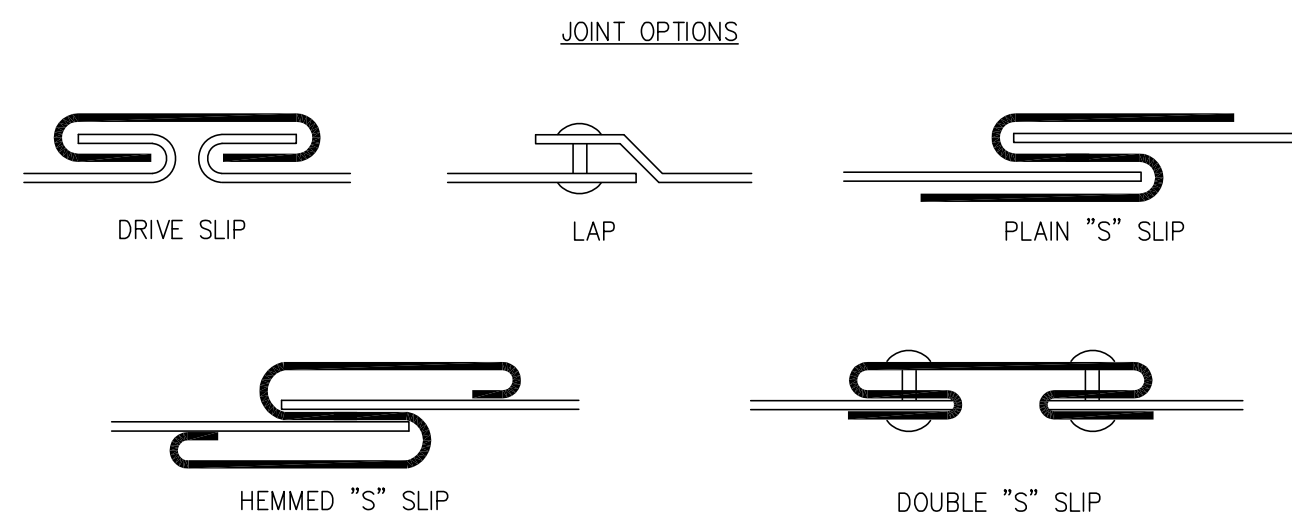
TYPE 'B' 'C' & 'D'

8 FT. MAX. HANGER SPACING

DUCT SCHEDULE		
DUCT DIMENSIONS INCHES		TYPE HANGER
UP	THRU 12	A
13	18	A
19	30	A/B
31	42	B
43	54	B
55	60	B
61	84	C
85	96	C
OVER	96	D

NOTES:

1. FOR SEVERAL DUCTS ON ONE HANGER TYPE 'B'- 'C' OR 'D' MAY BE USED. SIZE OF HANGER WILL BE SELECTED ON THE SUM OF DUCT WIDTHS EQUAL TO MAX. WIDTH OF DUCT SCHEDULES.
2. SCHEDULES FOR ANGLES FOR BRACING: TYPE 'B' 1 1/2" x 1 1/2" x 1/8" ANGLE, MAX. SPACING 8'-0" CENTERS; TYPE 'C' 1 1/2" x 1 1/2" x 3/16" ANGLE, MAX. SPACING 8'-0" CENTERS; TYPE 'D' 2" x 2" x 1/4" MAX. SPACING 4'-0" CENTERS.



UNREINFORCED DUCT DETAIL

NO SCALE

EXHAUST/SUPPLY FAN SCHEDULE													
UNIT NO.	AREA SERVED	TYPE	TOTAL AIRFLOW (CFM)	E.S.P. (in WG)	MOTOR			V/PH	CONTROL	SONES	BASED ON		REMARKS
					RPM	NAMEPLATE HP	BHP				MANUF.	MODEL	
EF-1	TOILETS	IN-D	715	0.6	1390	1/4	0.12	120 / 1	WALL SWITCH	7.2	GREENHECK	SQ-100-VG	1, 2, 5
TYPE:													
CCE CABINET CEILING EXHAUSTER													
CRE-D CENTRIFUGAL ROOF EXHAUST - DIRECT DRIVE													
CRE-B CENTRIFUGAL ROOF EXHAUST - BELT DRIVE													
KHE-B UPBLAST KITCHEN HOOD EXHAUST - BELT DRIVE													
IL-D INLINE EXHAUSTER - DIRECT DRIVE													
IL-B INLINE EXHAUSTER - BELT DRIVE													
ILS-D INLINE SUPPLY FAN - DIRECT DRIVE													
ILS-B INLINE SUPPLY FAN - BELT DRIVE													
REMARKS:													
1. INTEGRAL DISCONNECT.													
2. INTEGRAL SPEED CONTROL.													
3. 24" ROOF CURB.													
4. GREASE TERMINATION.													
5. BACK DRAFT DAMPER.													
6. FAN GUARD.													
7. 2-SPEED MOTOR.													
8. EXPLOSION PROOF.													

AIR GRILLE SCHEDULE

TAG	TYPE	MAX AIRFLOW (CFM)	NECK SIZE (in x in)	NOMINAL FACE SIZE (in x in)	INTEGRAL DAMPER (1)	MAX S.P. (in WG)	BASED ON		REMARKS
							MANUF.	MODEL	
RG-66	LINEAR RETURN GRILLE	75	6x6	8x8	NO	0.05	PRICE INDUSTRIES	630	1, 2
RG-1010	LINEAR RETURN GRILLE	300	10x10	12x12	NO	0.05	PRICE INDUSTRIES	630	1, 2

REMARKS:

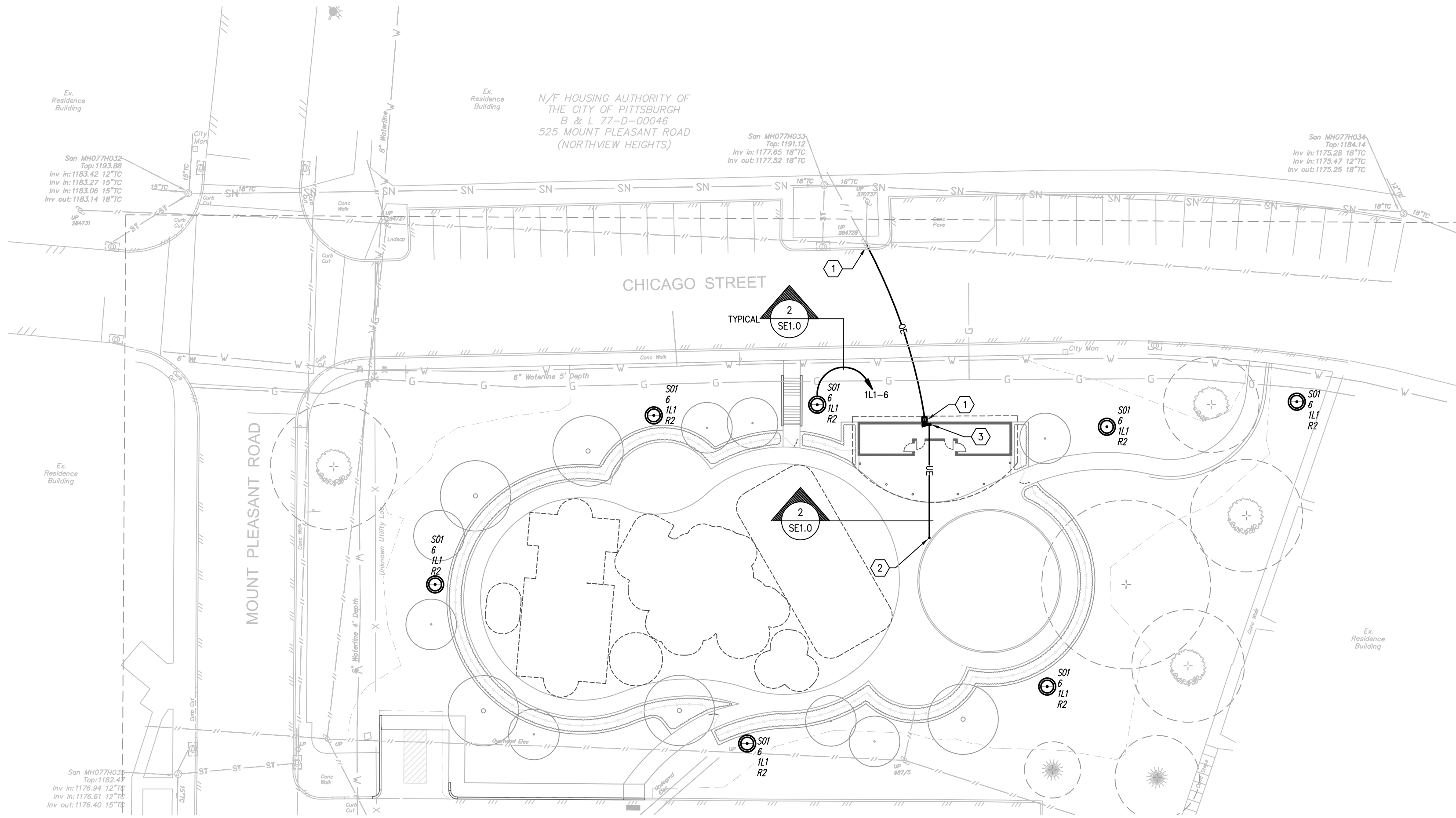
1. DO NOT PROVIDE INTEGRAL DAMPER UNLESS INDICATED ON THE DOCUMENTS.

2. 45 DEGREE DEFLECTION.

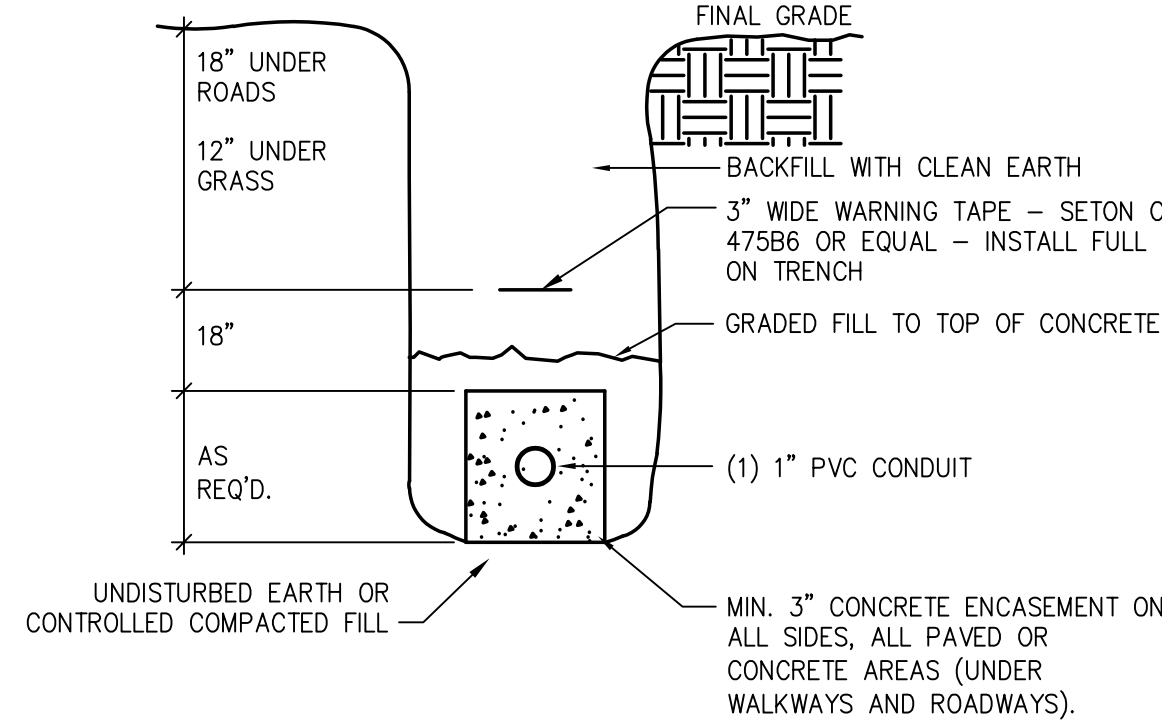
LOUVER SCHEDULE								
TAG	SERVING	SIZE (IN) WIDTH x HEIGHT	FREE AREA (SF)	MAX CFM	PRESSURE DROP (in WG)	BASED ON		REMARKS
						MANUF.	MODEL	
L-1	EF-1	24 x 18	0.94	740	0.1	AWV	LE-34	1, 2
L-2	WOMEN	18 x 12	0.29	300	0.17	AWV	LE-34	1, 2
L-3	MEN	18 x 12	0.29	300	0.17	AWV	LE-34	1, 2

REMARKS:

- COLOR AND FINISH SELECTION BY ARCHITECT.
- INSECT SCREEN.
- INTERLOCK MOTORIZED DAMPER WITH EQUIPMENT OPERATION.

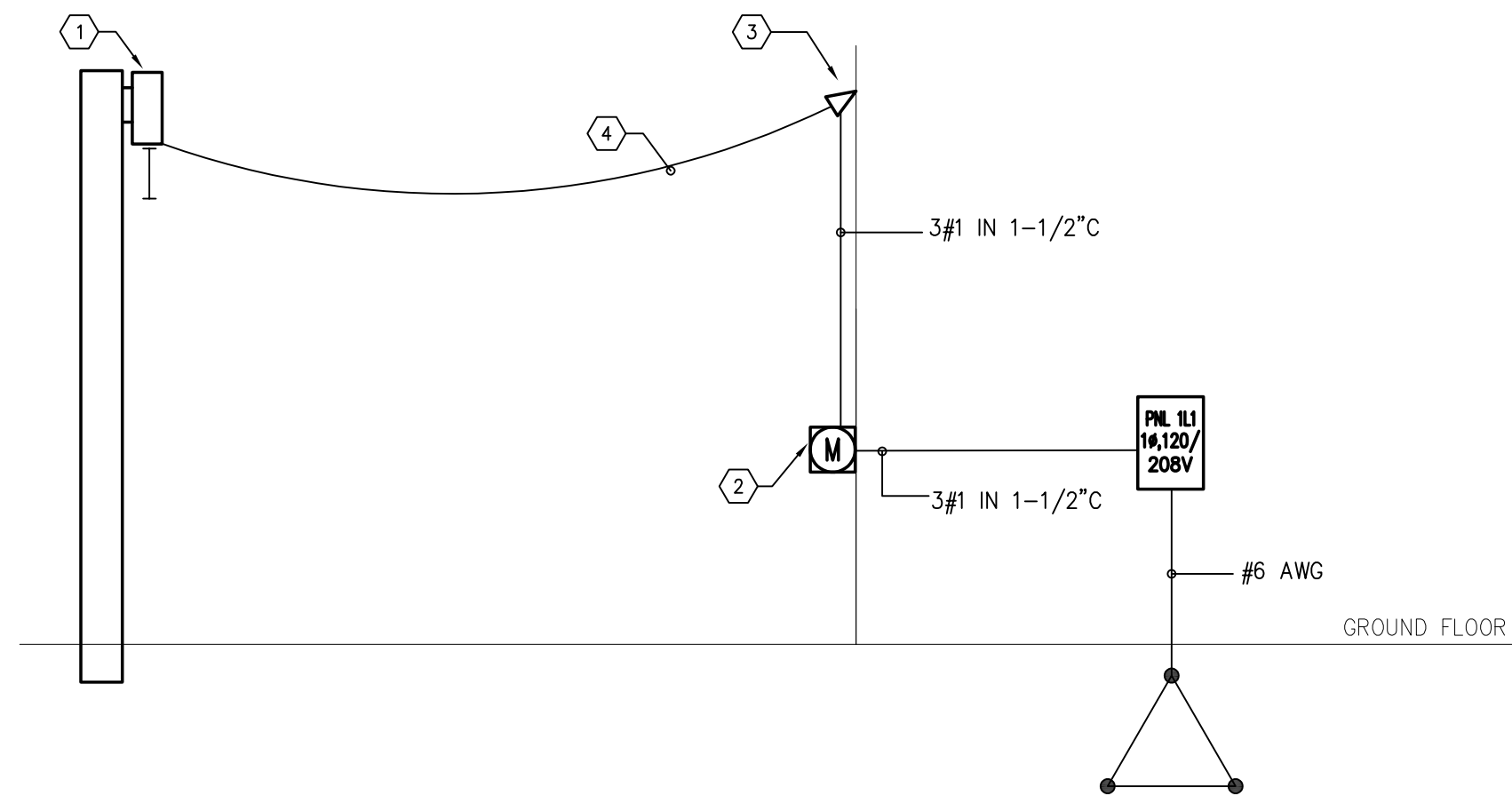


1 SITE PLAN
SCALE: 1" = 30'-0"



NOTE:
TYPICAL FOR ALL SITE LIGHTING CIRCUITING AND
BULLDOG AQUAVATOR

2 TRENCH DETAIL
NOT TO SCALE



3 ELECTRICAL SERVICE ENTRANCE DETAIL – ONE POLE
NOT TO SCALE

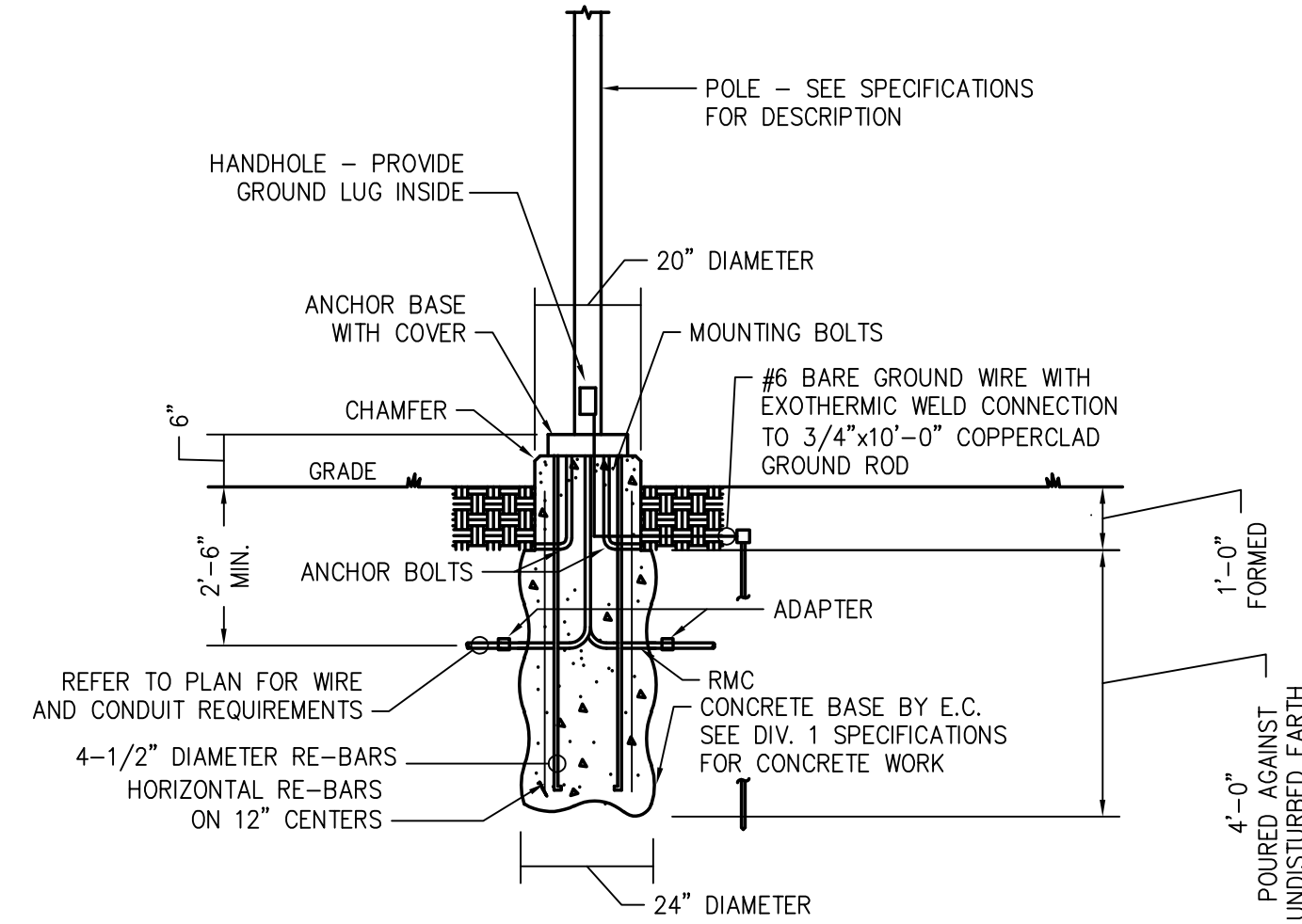
- CODED NOTES: (RISER DIAGRAM AND SITE PLAN)**
- UTILITY POLE WITH POLE-MOUNTED TRANSFORMER PROVIDED BY HACP.
 - PROVIDE METER SOCKET ON EXTERIOR OF BUILDING. HACP SHALL PROVIDE METER. COORDINATE METER SOCKET REQUIREMENTS WITH HACP PRIOR TO ROUGH-IN.
 - WEATHERHEAD TO ACCOMMODATE #1 AWG CONDUCTORS AND MOUNTING BRACKETS FURNISHED BY HACP. PROVIDE 3' OF CONDUCTORS AT WEATHERHEAD FOR CONNECTION TO OVERHEAD CONDUCTORS. COORDINATE LOCATION AND ALL REQUIREMENTS WITH HACP PRIOR TO ROUGH-IN.
 - NEW OVERHEAD CONDUCTORS BY HACP.

GENERAL NOTES: (THIS DRAWING)

- VERIFY CONDUIT TERMINATION LOCATION AND CABLING INSTALLATION FOR BULLDOG AQUAVATOR WITH SPLASH PAD EQUIPMENT SUPPLIER.
- PROVIDE LOW VOLTAGE CABLING RECOMMENDED BY SPLASH PAD EQUIPMENT SUPPLIER.

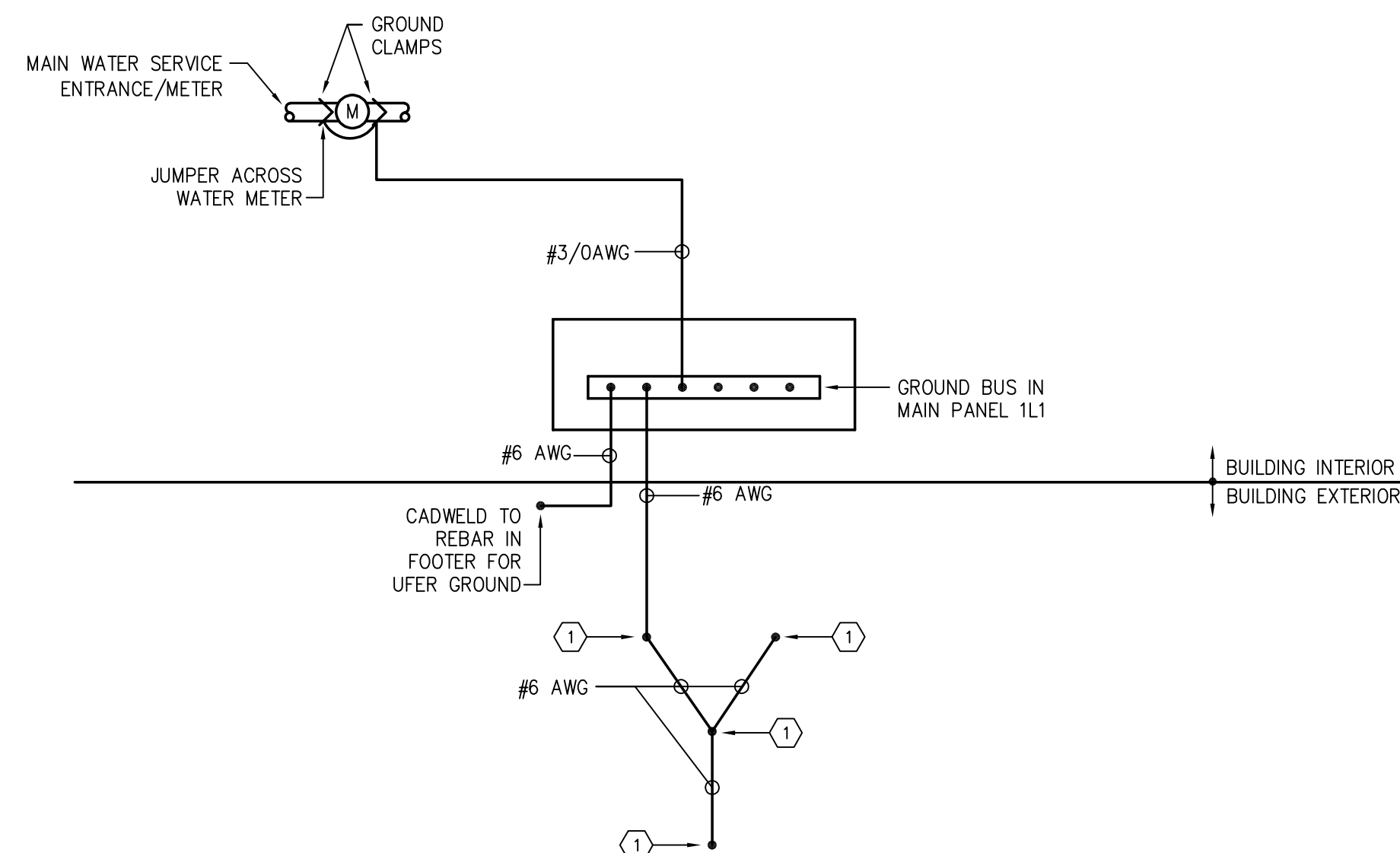
CODED NOTES: (THIS DRAWING)

- REFER TO DETAIL 3/SE1.0 FOR SERVICE ENTRANCE REQUIREMENTS.
- PROVIDE 1" CONDUIT FROM SPLASH PAD EQUIPMENT CONTROL PANEL AND STUBBED UP WITHIN BULLDOG AQUAVATOR. INSTALL LOW VOLTAGE CABLING, TERMINATED AT EQUIPMENT AND AT CONTROL PANEL.
- SPLASH PAD EQUIPMENT CONTROL PANEL.



NOTES:
1. REFER TO SPECIFICATION SECTION 265100 – LIGHTING FIXTURES FOR MORE DETAIL.

4 TYPICAL DETAIL OF LIGHT POLE – 6" BASE
NOT TO SCALE



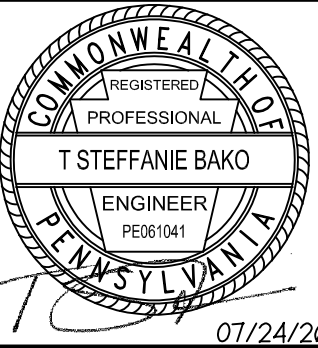
GENERAL NOTES: (GROUNDING DETAIL)

- ALL WIRE SHALL BE COPPER.

CODED NOTES: (GROUNDING DETAIL)

- PROVIDE DRIVEN GROUND RODS AND CADWELD CONNECTION IN ACCORDANCE WITH SPECIFICATION SECTION 260526.

5 SERVICE GROUNDING ELECTRODE REQUIREMENTS
NOT TO SCALE



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REVISIONS	
1.	8/7/2024 REVISED FOR PERMIT
2.	7/24/2026 REVISED FOR BIDDING

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SHEET NUMBER:

SE1.0

ELECTRICAL SYMBOL LEGEND

GENERAL DRAWING SYMBOLS

	DETAIL INDICATOR "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION "DWG" DENOTES NUMBER WHERE DETAIL IS DRAWN
	SECTION INDICATOR "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION "DWG" DENOTES NUMBER WHERE SECTION IS DRAWN
	COLUMN LINE OR GRID INDICATOR "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION
	ELEVATION/VIEW INDICATOR "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION "DWG" DENOTES NUMBER WHERE DETAIL IS DRAWN
	REVISION INDICATOR "NO" DENOTES REVISION LEVEL
	CODED NOTE "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION

SITE UTILITIES

	SERVICE METER
	UTILITY POLE
	UNDERGROUND DUCT BANK – SEE DRAWING SECTION AS INDICATED BY TAG
	NOMENCLATURE: – "OE" DENOTES OVERHEAD ELECTRIC – "UE" DENOTES UNDERGROUND ELECTRIC

GENERAL NOTES

- A. NOTES PERTAINING TO ALL BRANCH CIRCUITING:**
- ALL ELECTRICAL DEVICES HAVE BRANCH CIRCUIT NUMBERS AND PANELS INDICATED ADJACENT TO THE POWER CONNECTION SYMBOL ON THE PLANS. ALTHOUGH THE INTERCONNECTING BRANCH CIRCUITING IS NOT SHOWN, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRE AND CONDUIT REQUIRED FOR A COMPLETE AND OPERATIONAL POWER DISTRIBUTION SYSTEM.
 - UNLESS NOTED OTHERWISE, ON THE DRAWINGS, ALL BRANCH CIRCUITING SHALL BE INSTALLED CONCEALED IN EMT, 3/4" MINIMUM.
 - ALL CONDUIT SHALL BE 3/4" EMT, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS ALSO APPLY:
 - ALL BRANCH CIRCUIT WIRING TO SITE LIGHTING FIXTURES SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
 - THE CONDUIT FOR ALL FEEDERS SHALL BE AS SCHEDULED UNDER DETAIL 3/SE1.0.
 - THE CONDUIT FOR ALL PLUMBING AND HVAC EQUIPMENT SHALL BE AS SCHEDULED UNDER THE 'MECHANICAL EQUIPMENT SCHEDULE'.
 - MAXIMUM CONDUIT SIZE IN CONCRETE SLABS SHALL BE 1" PVC.
 - ALL BRANCH CIRCUIT WIRING SHALL BE #12AWG THHN COPPER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS APPLY:
 - BRANCH CIRCUIT WIRING TO ALL SITE LIGHTING FIXTURES SHALL BE #10AWG THHN COPPER, UNLESS NOTED AS A LARGER SIZE ON THE DRAWINGS.
 - THE WIRE FOR ALL FEEDERS SHALL BE AS SCHEDULED UNDER DETAIL 3/SE1.0.
 - THE WIRE FOR ALL PLUMBING AND HVAC EQUIPMENT SHALL BE AS SCHEDULED UNDER THE 'MECHANICAL EQUIPMENT SCHEDULE'.
 - THE MAXIMUM NUMBER OF CURRENT CARRYING WIRING (DOES NOT INCLUDE GROUND WIRE) IN ANY ONE CONDUIT SHALL NOT EXCEED SIX (6), UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS APPLY:
 - CONDUIT RUNS TO WALL SWITCHES.
- B. NOTES PERTAINING TO GROUNDING:**
- PROVIDE A SEPARATE INSULATED GROUND WIRE IN EACH CONDUIT RUN. MINIMUM WIRE SIZE SHALL BE #12AWG. GROUND WIRE IS TYPICALLY NOT SHOWN.
- C. NOTES PERTAINING TO THE LOCATION OF ALL EQUIPMENT AND DEVICES:**
- OBTAIN WRITTEN APPROVAL OF LOCATIONS OF ALL ELECTRICAL DEVICES FROM THE OWNER AND THE ARCHITECT PRIOR TO ROUGH-IN. THE OWNER RESERVES THE RIGHT TO MOVE ANY OR ALL ELECTRICAL DEVICES PRIOR TO ROUGH-IN, AT NO ADDITIONAL COST.
 - COORDINATE THE LOCATION AND SERVICE REQUIREMENTS OF ALL HVAC, PLUMBING AND KITCHEN EQUIPMENT WITH THE RESPECTIVE CONTRACTORS. INFORM THE ARCHITECT OF ANY CONFLICTS IMMEDIATELY.
 - THE ELECTRICAL CONTRACTOR SHALL CHECK ALL ARCHITECTURAL, HVAC, PLUMBING AND FOOD SERVICE DRAWINGS FOR THE LOCATION OF SINKS. RECEPTACLES SHALL BE LOCATED A MINIMUM OF 1" FROM THE EDGE OF ANY SINK, EVEN IF SHOWN CLOSER TO THE SINK ON THE ELECTRICAL DRAWINGS.
- D. NOTES PERTAINING TO ALL SWITCHING**
- CHECK ALL DRAWINGS FOR WALL SWITCHES. SWITCHES ARE SHOWN ON LIGHTING, POWER, AND SYSTEM PLANS.
 - WHERE ONE OR MORE WALL SWITCHES APPEAR IN THE SAME GENERAL LOCATION, SWITCHES SHALL BE GROUPED AND INSTALLED IN ONE WALL BOX WITH ONE CONTINUOUS COMMON COVER PLATE, WHERE POSSIBLE. WHERE GROUPING IS NOT POSSIBLE DUE TO SIZE OR TYPE OF DEVICE, GROUP DEVICES CLOSE TOGETHER AND AT THE EXACT SAME MOUNTING HEIGHT.
- E. NOTES PERTAINING TO EQUIPMENT LABELING:**
- PROVIDE NAMEPLATE LABELS ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH DETAIL 2/E1.0.
 - PROVIDE ARC FLASH HAZARD LABELING ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH SPECIFICATION SECTION 260573.
- F. NOTES PERTAINING TO CUTTING AND PATCHING:**
- ALL OPENINGS IN EXISTING STRUCTURAL ELEMENTS, REQUIRED FOR COMPLETION OF THE CONTRACT (SUCH AS FLOORS, WALLS, CEILINGS, AND ROOFS), SHALL BE CUT AND/OR PATCHED BY THE ELECTRICAL CONTRACTOR.

GENERAL ABBREVIATIONS

A	AMPERE	OC	ON CENTER
AC	ABOVE COUNTER	OEM	ORIGINAL EQUIPMENT MANUFACTURER
AFF	ABOVE FINISHED FLOOR	Ø	PHASE
AWG	AMERICAN WIRE GAUGE	P	POLE
C	CONDUIT	PB	PUSH BUTTON
CKT	CIRCUIT	PH	PHASE
CB	CIRCUIT BREAKER	PBL	PANELBOARD
CONN	CONNECTION	POS	POSITION
CU	COPPER	PRI	PRIMARY
DISC	DISCONNECT	PWR	POWER
DWG	DRAWING	REC	RECESSED
E	EMERGENCY OR EMERGENCY SYSTEM	RECPT	RECEPTACLE
EMT	ELECTRIC METALLIC TUBING	REQ	REQUIRED
EQUIP	EQUIPMENT	RMC	RIGID GALVANIZED METAL CONDUIT
EWC	ELECTRIC WATER COOLER	SCH	SCHEDULE
EX	EXISTING	SEC	SECONDARY
FA	FIRE ALARM	SM	SURFACE MOUNTED
FBO	FURNISHED BY OTHERS WITH ALL RELATED ELECTRICAL WORK BY ELECTRICAL CONTRACTOR	SW	SWITCH
FDR	FEEDER	SWBD	SWITCHBOARD
FH	FUME HOOD	TELE	TELEPHONE
FT	FEET	TL	TWIST LOCK
GND	GROUND OR GROUNDED	TP	TAMPER PROOF
GRD	GROUND OR GROUNDED	TV	TELEVISION
HP	HORSEPOWER	TYP	TYPICAL
IN	INCH	UC	UNDER COUNTER
JB	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE
KW	KILOWATT	V	VOLT
LTG	LIGHTING	W	WATT
MSF	MAIN SWITCH AND FUSE	W/	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MFR	MANUFACTURER	WP	WEATHER PROOF ENCLOSURE
MH	MANHOLE	X	EXISTING TO REMAIN
MLO	MAIN LUG ONLY	XA	EXISTING TO BE REMOVED COMPLETELY
MTD	MOUNTED	XP	EXPLOSION PROOF
MTG	MOUNTING	XR	RELOCATED EXISTING EQUIPMENT
NA	NOT APPLICABLE	XRN	EXISTING TO BE REMOVED AND REPLACED WITH NEW DEVICE
NIC	NOT IN THIS CONTRACT	XRR	EXISTING TO BE REMOVED AND RELOCATED
NO	NUMBER	Y	STAR OR WYE DISTRIBUTION SYSTEM
NTS	NOT TO SCALE		

UTILITY COMPANY ABBREVIATIONS

HACP	THE HOUSING AUTHORITY OF THE CITY OF PITTSBURGH
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CONTRACTOR ABBREVIATIONS

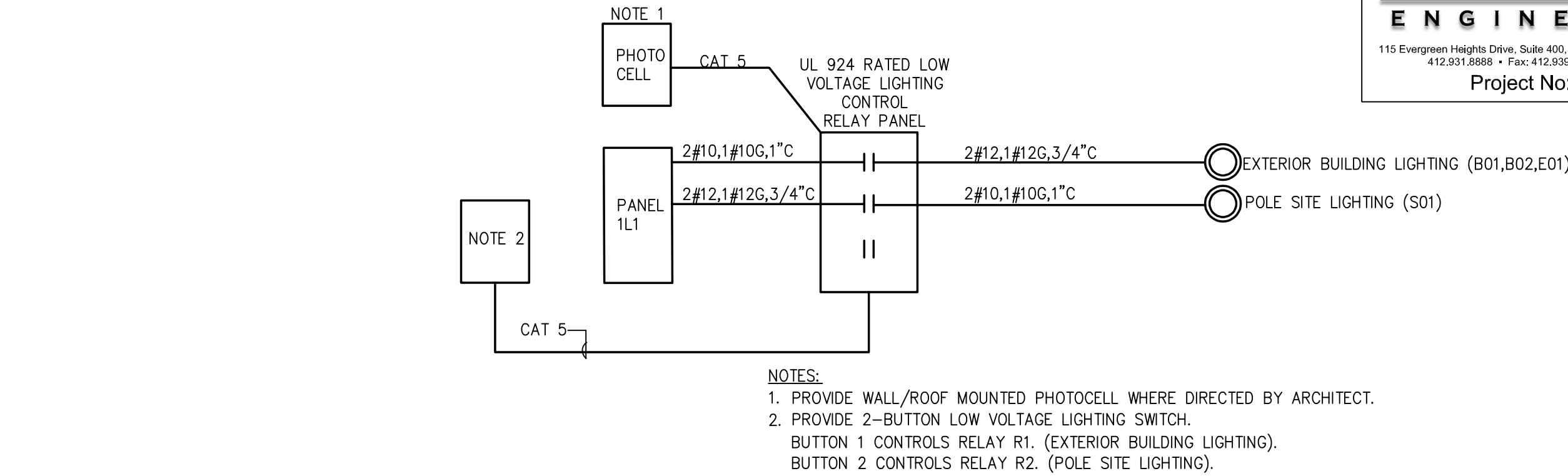
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
HC	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
PC	PLUMBING CONTRACTOR

LIGHTING

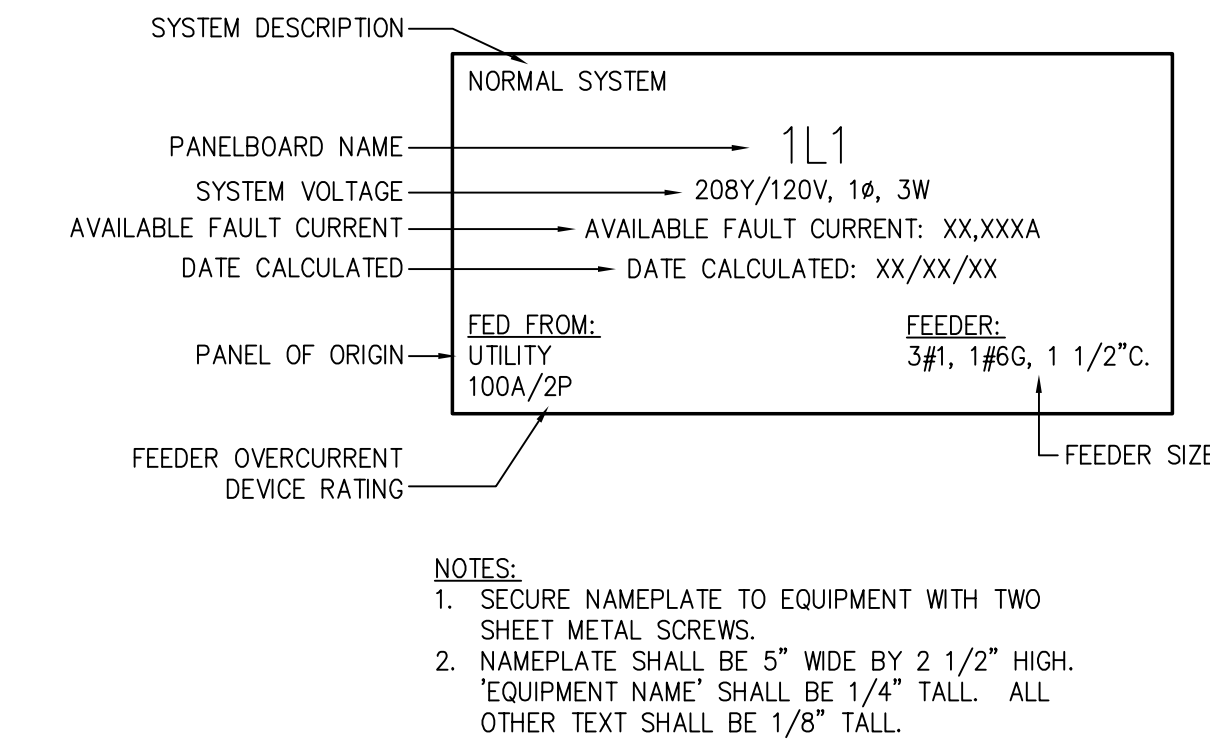
	LED LIGHTING FIXTURE, WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT (UNO)
	INDIVIDUAL LED LIGHTING FIXTURE, WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT (UNO)
	NORMAL/EMERGENCY LIGHTING FIXTURE, WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT (UNO)
	POLE MOUNTED FIXTURE
	NOMENCLATURE: – "G01" DENOTES TYPE (REFER TO LIGHTING FIXTURE SCHEDULE) – "1" DENOTES CIRCUIT NUMBER – "1L1" DENOTES PANELBOARD – "R1" DENOTES SWITCH CONTROL
	NOTES: 1. ADJACENT FIXTURES WITHOUT TAGS TO BE SAME TYPE AS TAGGED FIXTURES 2. REFER TO LIGHTING FIXTURE SCHEDULE FOR LIGHTING FIXTURE DESCRIPTIONS 3. WHERE POSSIBLE, LIGHTING FIXTURES AS SHOWN ACTUAL SIZE AND CONFIGURATION.
	WALL SWITCH – MOUNT 48" AFF TO TOP OF BOX, UNO NOMENCLATURE: – LOWER CASE LETTER ADJACENT TO SYMBOL DESIGNATES SWITCH TAG – "W1" DENOTES PASSIVE INFRARED AUTOMATIC WALL SWITCH – "LV" DENOTES LOW VOLTAGE SWITCH. REFER TO DETAIL 1/E1.0.
	LOW VOLTAGE RELAY PANEL, MOUNT AT 6'-0" AFF TO TOP (UNO).
	PHOTOCELL – MOUNT AS DIRECTED ON DRAWINGS
	LOW VOLTAGE LIGHTING CONTROL POWER PACK. WATTSTOPPER BZ-150 OR APPROVED EQUAL
	WALL MOUNTED LOW VOLTAGE LIGHTING CONTROL DUAL TECH OCCUPANCY SENSOR WITH 30 MINUTE TIME DELAY. WATTSTOPPER DT-200 OR APPROVED EQUAL

POWER

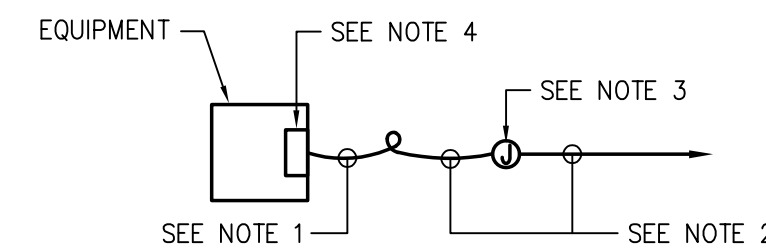
	JUNCTION BOX – MOUNT 18" AFF, UNO
	DUPLEX OUTLET RECEPTACLE – MOUNT 18" AFF, UNO
	NOMENCLATURE: – "1" DENOTES CIRCUIT NUMBER – TWO NUMBERS SEPARATED BY A SLASH (e.g. 31/33) INDICATES A 2-POLE CIRCUIT TO BE CONNECTED TO POSITIONS 31 AND 33 IN THE PANELBOARD. THREE NUMBERS SEPARATED BY A SLASH (e.g. 31/33/35) INDICATES A 3-POLE CIRCUIT IN THE PANELBOARD. NUMBERS SEPARATED BY COMMAS, INDICATES INDIVIDUAL SINGLE-POLE CIRCUITS (e.g. 31,33,35). – "1L1" DENOTES PANELBOARD – "GF" DENOTES GROUND FAULT INTERRUPTING RECEPTACLE – "WR" DENOTES WEATHER RESISTANT RECEPTACLE WITH EXTRA HEAVY DUTY BOX COVER – "EMC" DENOTES OFCI TYPE RECEPTACLE FOR ELECTRIC WATER COOLER, MOUNTED DIRECTLY UNDER WATER COOLER IN CENTER LINE OF COOLER – COORDINATE WITH PC
	FUSED SAFETY DISCONNECT SWITCH – MOUNT 6'-0" AFF TO TOP OF ENCLOSURE, UNO NOMENCLATURES: 30/1/20 Z1 Z2 – DENOTES FUSE SIZE – DENOTES NUMBER OF POLES – DENOTES SWITCH RATING
	PANELBOARD, MOUNT 6'-0" AFF TO TOP CIRCUIT BREAKER
	EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS – REFER TO EQUIPMENT SCHEDULE FOR SPECIFICATION NOMENCLATURES: DWH-1 1L1 X/E1.0 – DENOTES EQUIPMENT NUMBER (REFER TO SCHEDULE) – DENOTES POSITION IN PANELBOARD. TWO NUMBERS SEPARATED BY A SLASH (e.g. 31/33) INDICATES A 2-POLE CIRCUIT TO BE CONNECTED TO POSITIONS 31 AND 33 IN THE PANELBOARD. THREE NUMBERS SEPARATED BY A SLASH (e.g. 31/33/35) INDICATES A 3-POLE CIRCUIT IN THE PANELBOARD. NUMBERS SEPARATED BY COMMAS, INDICATES INDIVIDUAL SINGLE-POLE CIRCUITS (e.g. 31,33,35). – DENOTES PANELBOARD EQUIPMENT SHALL BE CONNECTED TO – DENOTES REFERENCE TO EQUIPMENT CONNECTION DETAIL
	GROUND CONNECTION PER NEC, UNO



1 LIGHTING CONTROL DETAIL
E1.0 NOT TO SCALE

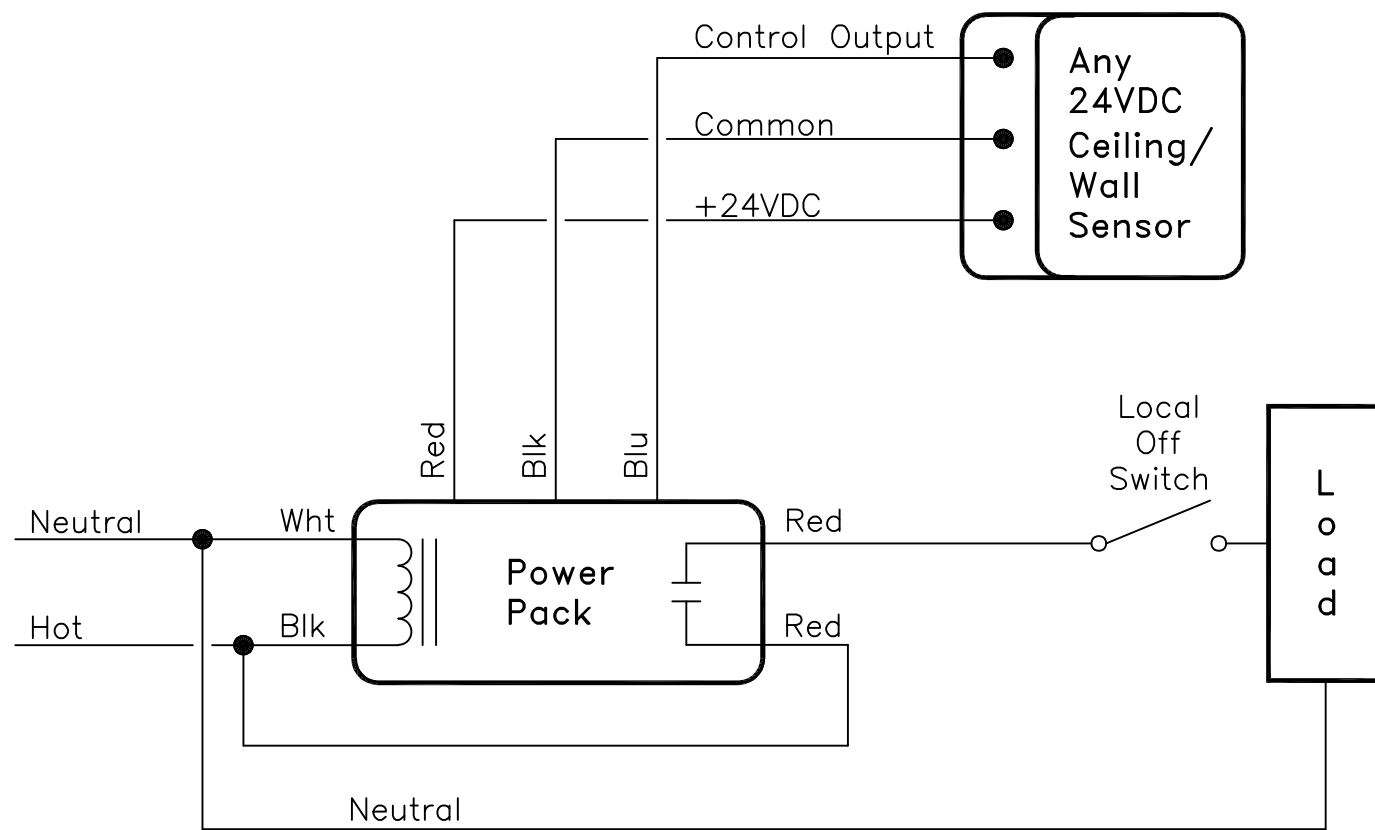


2 PANELBOARD NAMEPLATE DETAIL
E1.0 NOT TO SCALE



- NOTES:
1. PROVIDE FLEXIBLE CONDUIT IN ACCORDANCE WITH THE SPECIFICATION.
2. PROVIDE WIRING IN ACCORDANCE WITH EQUIPMENT SCHEDULE.
3. PROVIDE A JUNCTION BOX ADJACENT TO EQUIPMENT.
4. CONNECT TO INTEGRAL DISCONNECT SWITCH OR CONTROL PANEL IN UNIT.

4 EQUIPMENT CONNECTION DETAIL
E1.0 NOT TO SCALE

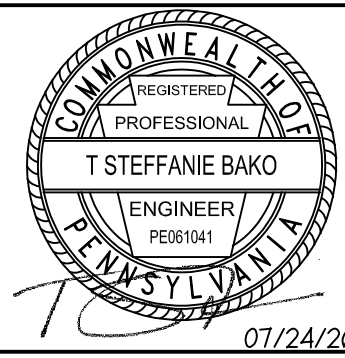


5 TYPICAL CEILING MOUNTED OCCUPANCY SENSOR DETAIL – SINGLE CIRCUIT
E1.0 NOT TO SCALE

TOWER ENGINEERING

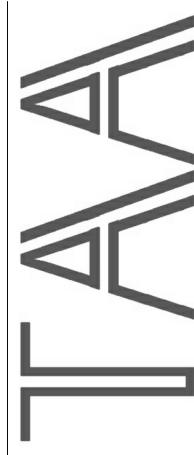
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ELECTRICAL LEGEND AND DETAILS		DRAWN BY JVM	REVISIONS
HACP NVH - Family Recreational Area 525 Mt Pleasant Road, Pittsburgh, PA 15214	CHECKED BY TSB	1. 8/7/2024 REVISED FOR PERMIT	
	DATE ISSUED 07/24/26	2. 7/24/2026 REVISED FOR BIDDING	
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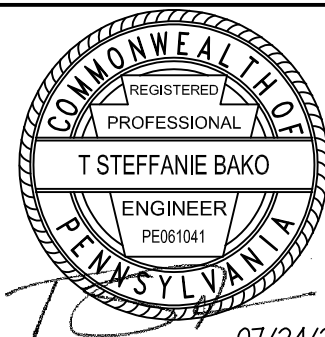
E1.0

GENERAL NOTES: (THIS DRAWING)

- A. VERIFY SOLENOID VALVE QUANTITY WITH SPLASH PAD EQUIPMENT SUPPLIER.
B. PROVIDE LOW VOLTAGE CABLING RECOMMENDED BY SPLASH PAD EQUIPMENT SUPPLIER.

CODED NOTES: (THIS DRAWING)

- ① PROVIDE POWER CONNECTION WITH 2#10 AND 1#10G IN 3/4" C FOR SPLASH PAD EQUIPMENT CONTROL PANEL. INSTALL LOW VOLTAGE CABLING, TERMINATED AT SOLENOID VALVES AND AT CONTROL PANEL.
② REFER TO DRAWING SE1.0 FOR CONTINUATION.
③ PROVIDE MANUAL OVERRIDE SWITCHES AND POWER PACKS FOR MEN'S AND WOMEN'S BATHROOMS IN ACCORDANCE WITH DETAIL 5/E001.



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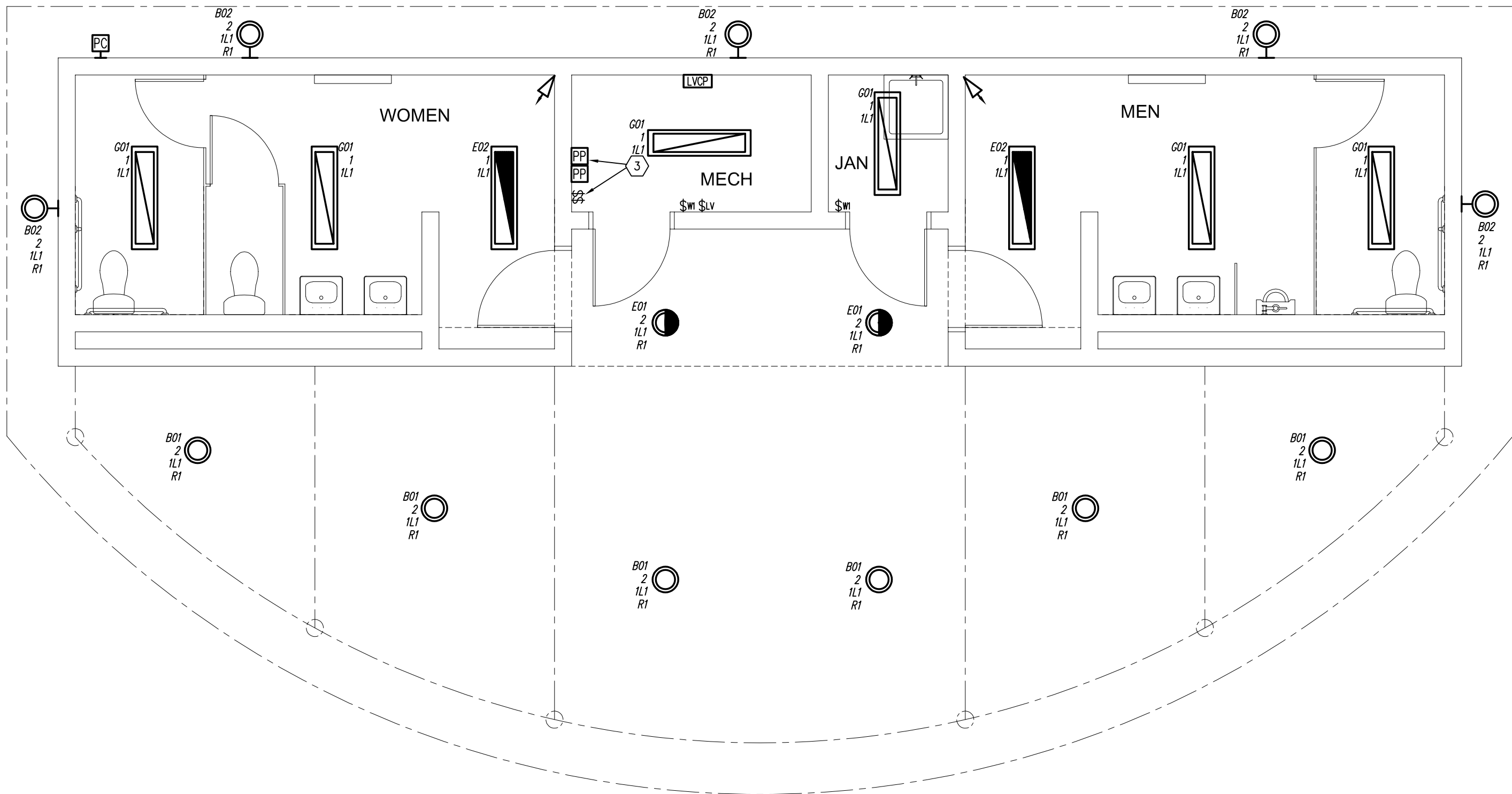
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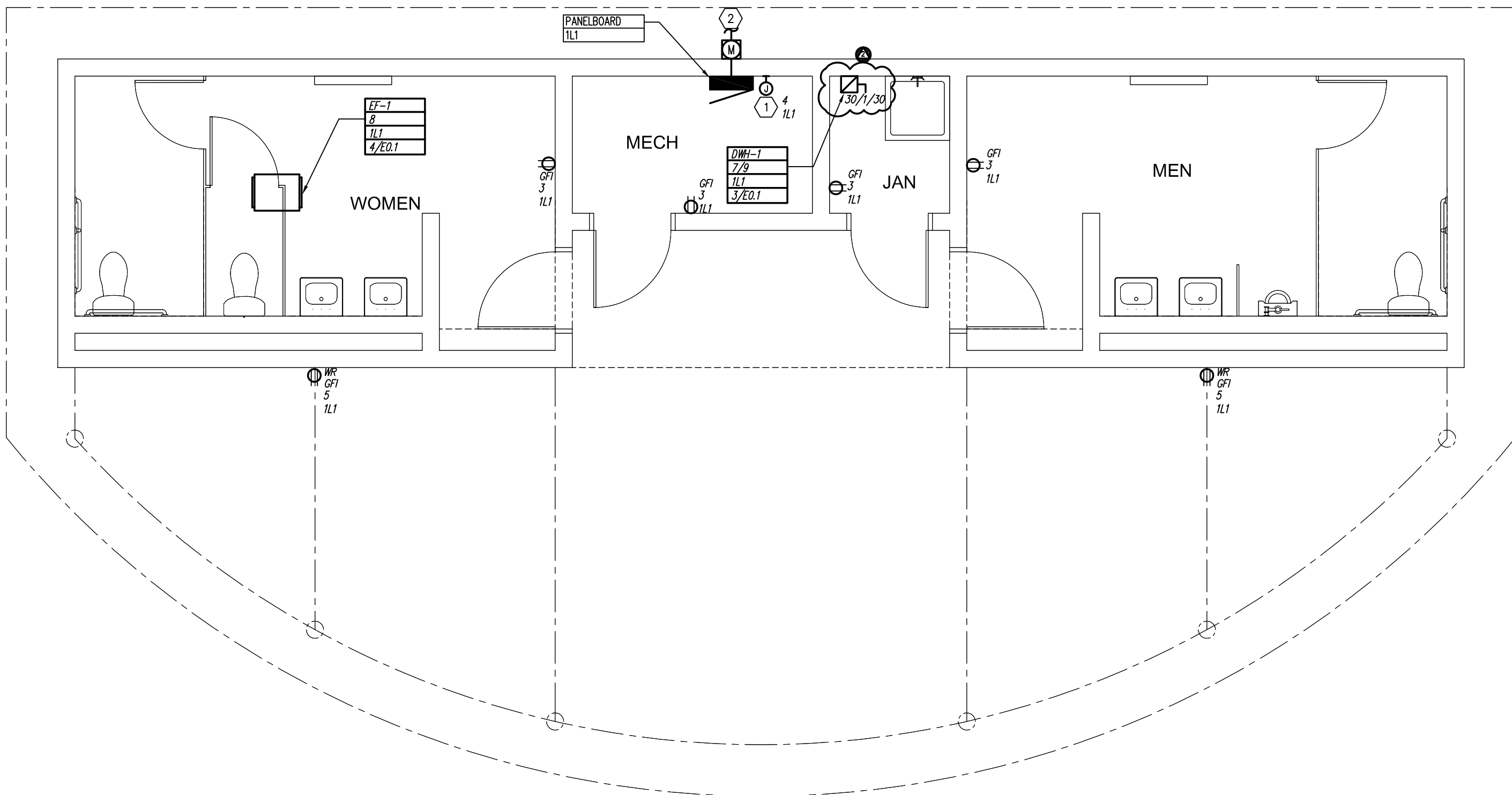
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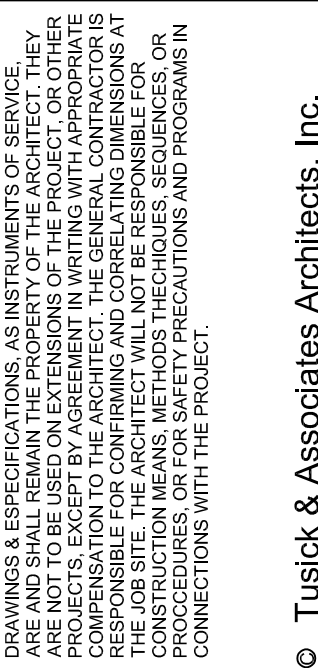
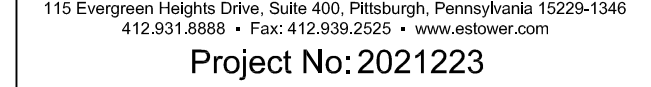
E1.1



1 LIGHTING PLAN
E1.1 SCALE: 1/4" = 1'-0"



2 POWER AND SYSTEMS PLAN
E1.1 SCALE: 1/4" = 1'-0"



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E1.2

BUILDING MOUNTED LIGHTING FIXTURES

EMERGENCY LIGHTING FIXTURES

GENERAL LIGHTING FIXTURES

SITE LIGHTING FIXTURES

NOTES:

- REFERENCE SPECIFICATION – LIGHTING FIXTURES FOR DETAILED LAMP AND FIXTURE SPECIFICATIONS.
- CATALOG NUMBERS INDICATE THE GENERAL LINE OF FIXTURES REQUIRED AND MAY NOT NECESSARILY INCLUDE ALL PREFIXES AND SUFFIXES FOR OPTIONS AND/OR CONFIGURATIONS REQUIRED. WHERE A CONFLICT EXISTS BETWEEN THE DESCRIPTION AND THE CATALOG NUMBER, THE DESCRIPTION SHALL TAKE PRECEDENCE. BID PRICES SHALL BE BASED ON FIXTURES AS DESCRIBED IN THE DESCRIPTION. VOLTAGE SHALL BE 120VAC.
- THE LAMP COLUMN INDICATES THE NORMAL LAMP WATTAGE / SHAPE / COLOR TEMPERATURE / AND/OR DISTRIBUTION. LAMPS SHALL BE PROVIDED AS RECOMMENDED AND TESTED BY THE MANUFACTURER OF THE FIXTURE SPECIFIED. THE FIXTURE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LAMP BALLAST COMPATIBILITY.
- INTERIOR LAMPS SHALL HAVE A MINIMUM CRI OF 82.
- ALL EXTERIOR LED LAMPS SHALL HAVE A COLOR TEMPERATURE OF 3500K, EXTERIOR LAMPS SHALL HAVE A COLOR TEMPERATURE OF 4000K.

VOLTAGE:	120/208V, 1PH, 3W	PANEL TAG:	1L1	MIN. AIC:	10K
SIZE/TYPE BUS:	100A COPPER	LOCATION:	MECHANICAL ROOM	MOUNTING:	SURFACE
SIZE/TYPE MAIN:	100A MAIN CIRCUIT BREAKER			OPTIONS:	

PROGRAMMABLE LOW VOLTAGE LIGHTING CONTROL RELAY SCHEDULE

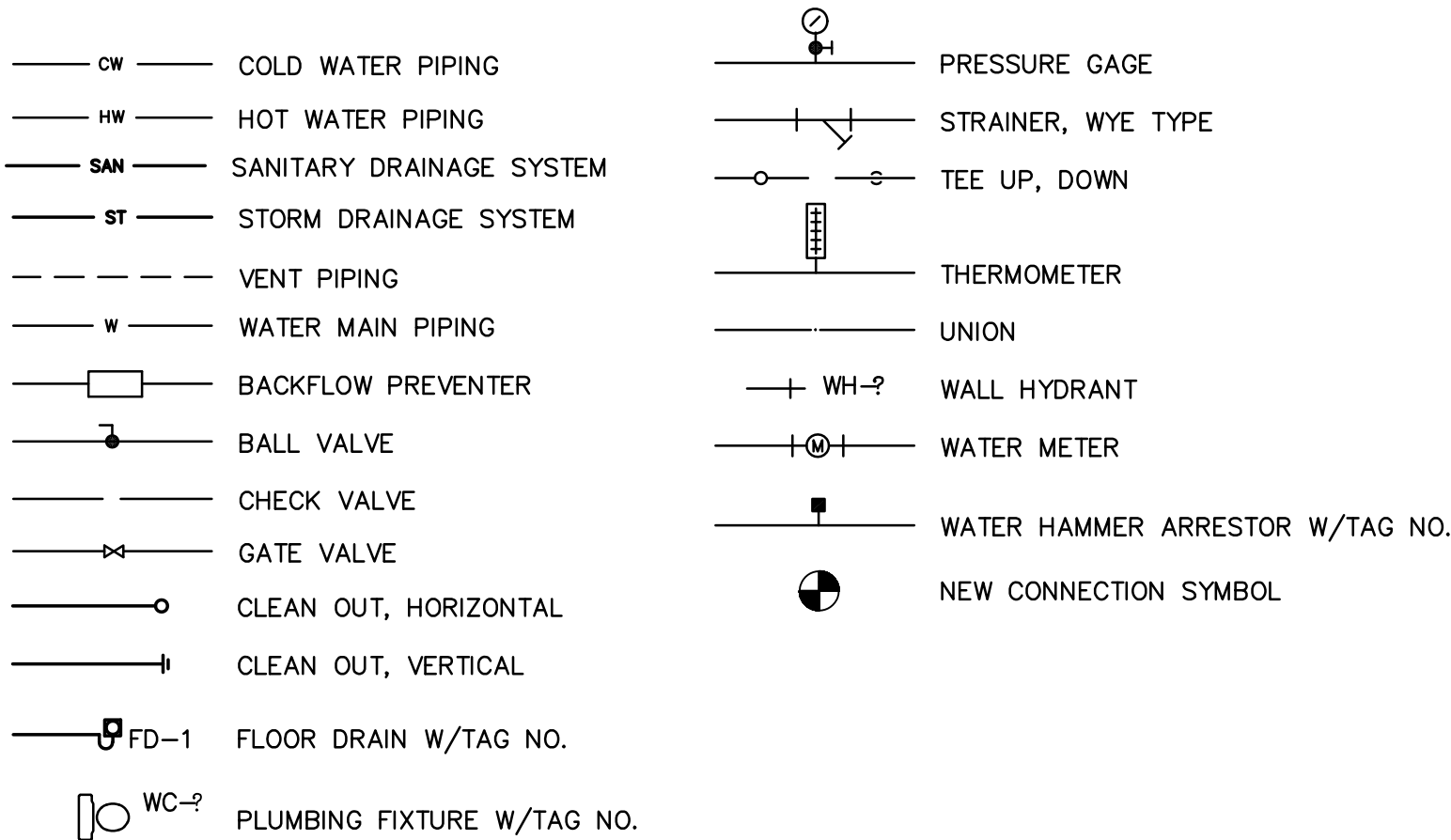


EQUIPMENT TAG	DESCRIPTION	LOAD	VOLTAGE & PHASE	BRANCH CIRCUIT PROTECTION	SETS	BRANCH CIRCUIT SIZE AND TYPE							
						CONDUIT		CONDUCTORS				GROUND	
						SIZE	TYPE	NO.	SIZE	TYPE	SIZE	TYPE	
DWH-1	DOMESTIC WATER HEATER	6 KW	208V,1Ø,2W	40A/2P	1	1"	EMT	2	8AWG	CU THWN	10AWG	CU THWN	
EF-1	EXHAUST FAN	1/4 HP	120V,1Ø,2W	20A/1P	1	3/4"	EMT	2	12AWG	CU THWN	12AWG	CU THWN	

PLUMBING GENERAL NOTES

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.
- B. THE CONTRACTOR SHALL VERIFY AND CORRECT, AS REQUIRED TO MEET ALL CODES AND REGULATIONS, ANY AND ALL POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTIONS SPECIFIED IN THE PLUMBING FIXTURE SCHEDULES AND FIXTURES ACTUALLY INSTALLED.
- C. VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE PIPING OF WHICH THEY ARE INSTALLED.
- D. THE DRAWINGS ARE DIAGRAMMATIC, THE CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS AT THE SITE PRIOR TO ANY INSTALLATION.
- E. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS.
- F. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY, STORM AND WASTE PIPING AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- G. INSTALL WATER HAMMER ARRESTORS ON HOT AND COLD WATER PIPING TO EACH FIXTURE OR BATTERY OF FIXTURES. ARRESTORS SHALL BE FACTORY FABRICATED, SIZED AND PLACED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. INSTALL WATER HAMMER ARRESTORS IN AN ACCESSIBLE LOCATION.
- H. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS.
- I. ALL PIPING SHALL BE INSTALLED AS CLOSE TO DRAWINGS AS POSSIBLE WITH NO CHANGES IN SIZING.
- J. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN THE CONTRACT DRAWINGS AND AS SPECIFIED.
- K. CONTRACTOR SHALL GIVE SUITABLE NOTICE TO ALL APPLICABLE UTILITY COMPANIES AND OWNER PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- L. ALL PIPING SHALL BE ROUTED CONCEALED ABOVE CEILINGS, WITHIN WALLS OR IN CHASES EXCEPT FINAL CONNECTIONS TO FIXTURES, OR IN MECHANICAL ROOMS AND AS SPECIFICALLY NOTED OTHERWISE.
- M. PROVIDE ACCESS PANELS FOR ALL VALVES WITHIN CHASES OR ABOVE NON- ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- N. INSTALL WALL HYDRANTS 24 INCHES ABOVE FINISHED GRADE/FLOOR.
- O. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS AND DIMENSIONS.
- P. PRIOR TO THE INSTALLATION OF NEW SEWER PIPING, THE CONTRACTOR SHALL VERIFY EXACT INVERT ELEVATIONS OF THE EXISTING SEWERS TO WHICH NEW SEWER PIPING IS TO BE CONNECTED.
- Q. ALL VENTS THROUGH ROOF SHALL BE A MINIMUM OF FIFTEEN (15) FEET FROM MECHANICAL EQUIPMENT AIR INTAKES.
- R. CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLY PIPING TO SPECIAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURES APPROVED SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED AND INCLUDE VACUUM BREAKERS WHERE REQUIRED BY CODE.
- S. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATIONS) TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT.
- T. THE CONTRACTOR SHALL BASE HIS/HER PROPOSAL UPON THE EQUIPMENT, FIXTURES, ETC. SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURER IS SPECIFIED, ANY ONE OF THE MANUFACTURERS MAY BE USED IN THE PROPOSAL. IF THE CONTRACTOR WISHES TO USE EQUIPMENT, FIXTURES, ETC. NOT SPECIFIED, HE MUST SUBMIT ON LETTERHEAD STATIONERY, THE EQUIPMENT, FIXTURES, ETC. SUBSTITUTED AND RECEIVE ARCHITECT/ENGINEER APPROVAL 10 DAYS BEFORE THE BID IS DUE.
- U. THE CONTRACTOR SHALL ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
- V. PIPING SHALL NOT PENETRATE ANY WALL FOOTINGS, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND THE LOCATION BE APPROVED BY THE STRUCTURAL ENGINEER.
- W. EXPOSED PIPING IN FINISHED SPACES SHALL BE CHROME PLATED.
- X. MINIMUM SIZE FOR SANITARY PIPING BELOW GRADE IS 4 INCH DIAMETER.
- Y. SANITARY AND STORM PIPING IS BELOW THE FLOOR UNLESS OTHERWISE NOTED.
- Z. HOT WATER, COLD WATER, AND VENT PIPING IS ABOVE THE CEILING UNLESS OTHERWISE NOTED.
- AA. PROVIDE SLEEVES AND FIRE STOP SEALANTS AT ALL PIPE PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS. COMPLY WITH ASTM E-814 AND UL 1479.
- AB. 1/2" CW TO EACH FLOOR DRAIN..
- AC. PROVIDE 1/2" CW BRANCH CONNECTION WITH ISOLATION BALL VALVE TO EACH TRAP PRIMER.
- AD. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVES BELOW ALL LAVATORIES.

PLUMBING LEGEND



PLUMBING ABBREVIATIONS

AP	ACCESS PANEL	HC	HEATING CONTRACTOR
BFP	APPROXIMATELY	HW	HOT WATER
CLG	BACKFLOW PREVENTER	ID	INSIDE DIAMETER
CO	CEILING	INV	INVERT
CTB	CLEANOUT	L OR LAV	LAVATORY
CW	CONCRETE THRUST BLOCK	MB	MOP BASIN
DF	COLD WATER	PC	PLUMBING CONTRACTOR
DIA	DRINKING FOUNTAIN	PRV	PRESSURE
DS	DIAMETER	PVC	PRESSURE REDUCING VALVE
DWG	DOWNSPOUT	PSI	POLY VINYL CHLORIDE
DWH	DRAWING	RPZ	POUNDS PER SQUARE INCH
EA	DOMESTIC WATER HEATER	RWC	REDUCED PRESSURE ZONE
EC	EACH	SAN	RAIN WATER CONDUCTOR
ELEV	ELECTRICAL CONTRACTOR	SPEC	SANITARY
FAI	ELEVATION	S/S	SPECIFICATION
FD	FRESH AIR INLET	ST	STAINLESS STEEL
FT	FLOOR DRAIN	TEMP	STORM
GC	FEET/FOOT	U	TEMPERATURE
GPM	GENERAL CONTRACTOR	V	VENT
	GALLONS PER MINUTE	VTR	VENT THRU ROOF
		WC	WASTE
		WH	WATER CLOSET
		WHA	WALL HYDRANT
			WATER HAMMER ARRESTOR

FIXTURE CONNECTION SCHEDULE

TAG No.	CW	HW	TRAP	VENT	REMARKS
WC-1	1"	----	4"	2"	FLOOR MOUNTED WATER CLOSET W/ MANUAL FLUSH VALVE.
WC-2	1"	----	4"	2"	FLOOR MOUNTED WATER CLOSET W/ MANUAL FLUSH VALVE, ADA COMPLIANT.
U-1	3/4"	----	2"	1 1/2"	WALL-HUNG URINAL W/ MANUAL FLUSH VALVE, ADA COMPLIANT.
L-1	1/2"	1/2"	1 1/2"	1 1/2"	WALL-HUNG LAVATORY W/ DECK MOUNTED METERED FAUCET, WITH ASSE 1070 THERMOSTATIC MIXING VALVE BELOW
L-2	1/2"	1/2"	1 1/2"	1 1/2"	WALL-HUNG LAVATORY W/ DECK MOUNTED METERED FAUCET, ADA COMPLIANT. ASSE 1070 THERMOSTATIC MIXING VALVE BELOW
DF-1	1/2"	----	1 1/2"	1 1/2"	BI-LEVEL REMOTE DRINKING FOUNTAIN - ADA COMPLIANT
MB-1	3/4"	3/4"	3"	1 1/2"	FLOOR MOUNTED MOP BASIN.
WH-1	3/4"	----	----	----	NO-FREEZE WALL HYDRANT.
HB-1	3/4"	----	----	----	MILD CLIMATE HOSE BIB.
FD-1	----	----	4"	2"	FLOOR W/ FLUSH STRAINER AND TRAP PRIMER.
FD-2	----	----	4"	2"	FLOOR W/ RECESSED LIP STRAINER AND TRAP PRIMER.

WATER HEATER SCHEDULE

TAG No.	STORAGE (GAL)	DELIVERY TEMP (°F)	RECOVERY GPH	ELECTRICAL VOLT/PH/Hz	KW	CONNECTION IN	CONNECTION OUT	REMARKS
DWH-1	20	140°	12	100°	208/1/60	3	1"	ELECTRIC WATER HEATER BASED ON A.O. SMITH DEL-20

EXPANSION TANK SCHEDULE

TAG No.	LOCATION	SERVICE	CAP. (GAL)	SIZE (INCHES) DIA.	LENGTH	INITIAL FILL PRESS.	REMARKS
ET-1	JANITORS	CW	5	12	18	40	AMTROL MODEL ST-12C-DD

WATER HAMMER ARRESTOR

TAG No.	FIXTURE UNITS	SIZE *	PIPE SIZE
WHA-A	1-11	A	1/2"
WHA-B	12-32	B	3/4"
WHA-C	33-60	C	1"
WHA-D	61-113	D	1 1/4"
WHA-E	114-154	E	1 1/2"
WHA-F	155-330	F	2"

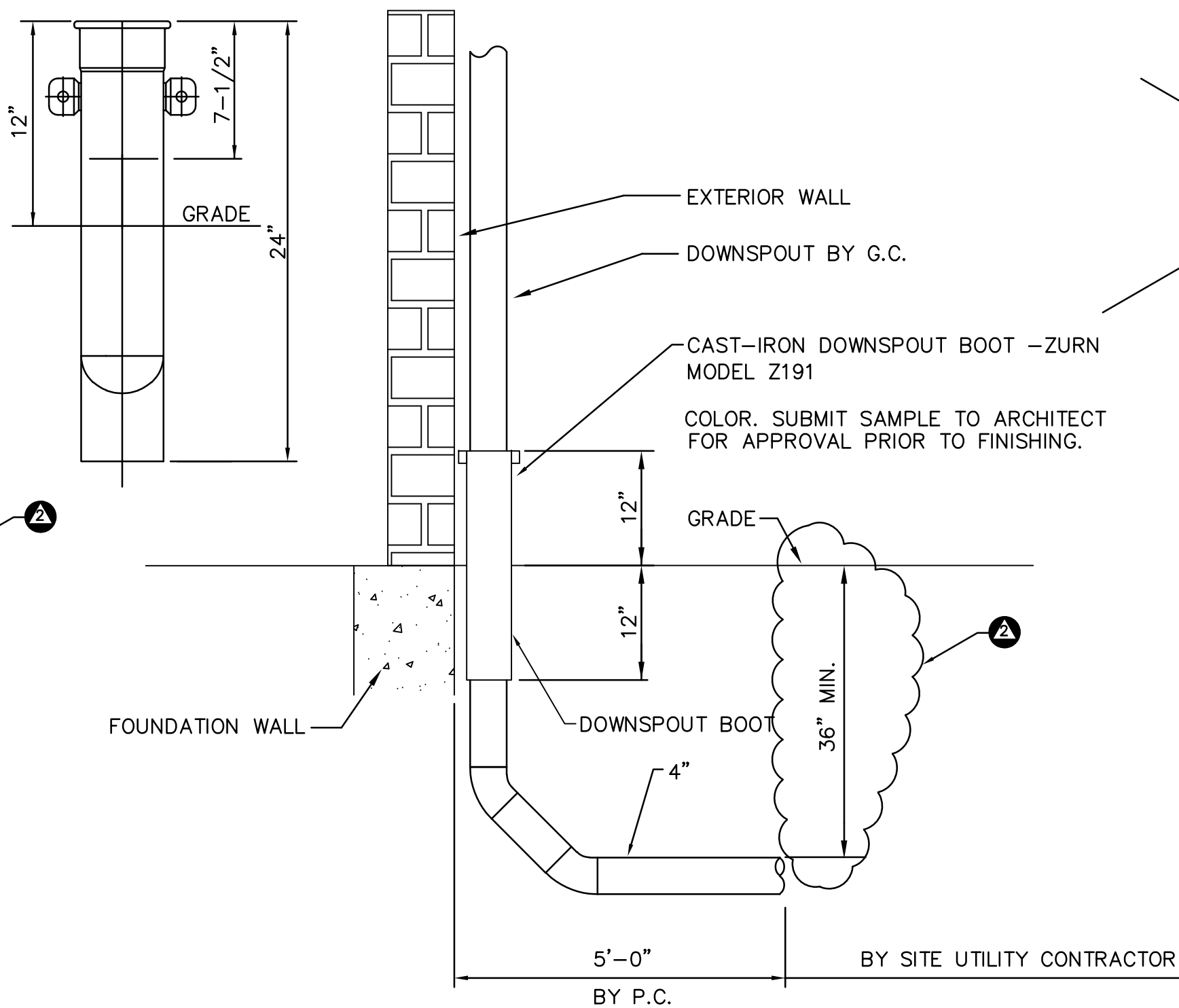
* PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH-201.

FLOOR DRAIN TRAP PRIMER DETAIL

NO SCALE

NOTES:

- TRAP PRIMER SHALL USED TO SERVE SINGLE AND MULTIPLE TRAPS. MULTIPLE BEING SERVE WITH ADD-ON DISTRIBUTION UNIT.
- IN FINISHED AREAS, ROUTE PIPING WITHIN WALL AND LOCATE TRAP PRIMER IN A RECESSED BOX. BOX SHALL BE FULL SIZE TO SERVICE VALVE AND TRAP PRIMER ASSEMBLY. MINIMUM 12X12 FOR ONE ASSEMBLY. (BASED ON JR. SMITH MODEL 4760)
- ALL INACCESSIBLE PIPING, SUCH AS BURIED IN CONCRETE, SHALL BE PEX TUBING WITH MECHANICAL CONNECTIONS. ALL OTHER PIPING SHALL BE HARD COPPER.

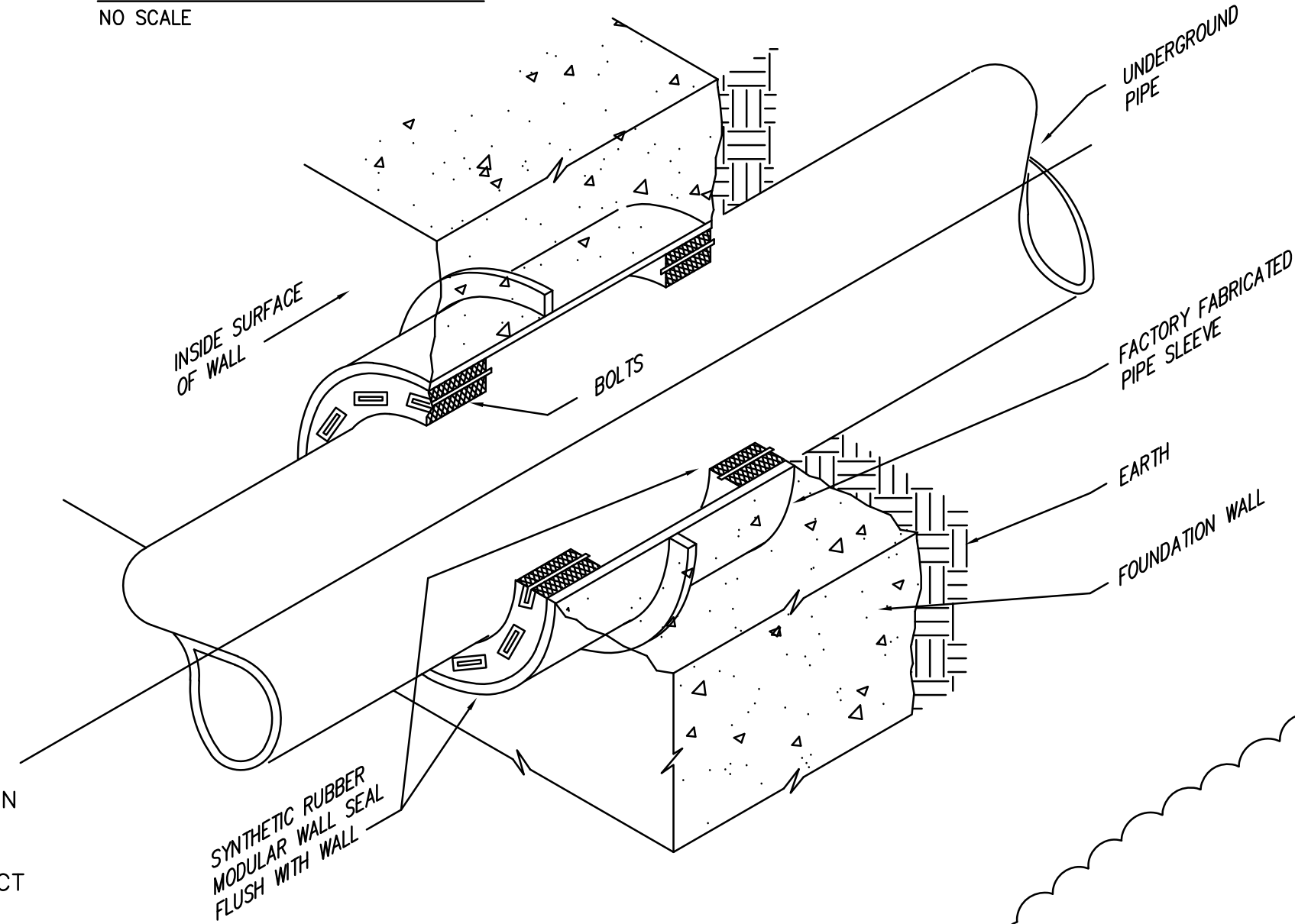


DOWNSPOUT BOOT DETAIL DSB-1

NO SCALE

PIPE HANGER DETAIL

NO SCALE



BELOW GRADE PIPE SEAL DETAIL

NO SCALE

ELECTRIC WATER HEATER DIAGRAM (DWH-1)

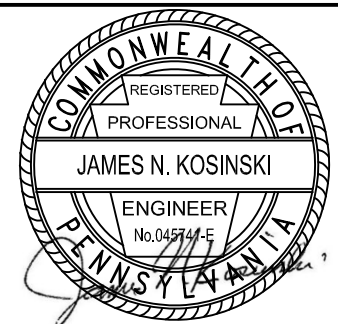
NO SCALE

ENTIRE INSTALLATION SHALL CONFORM TO WATER HEATER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
WATER HEATER TO BE DRAINED ENTIRELY FOR WINTERIZATION.

TOWER
ENGINEERING

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412.801.8888 • Fax: 412.808.9251 • www.towereng.com

Project No: 2021223



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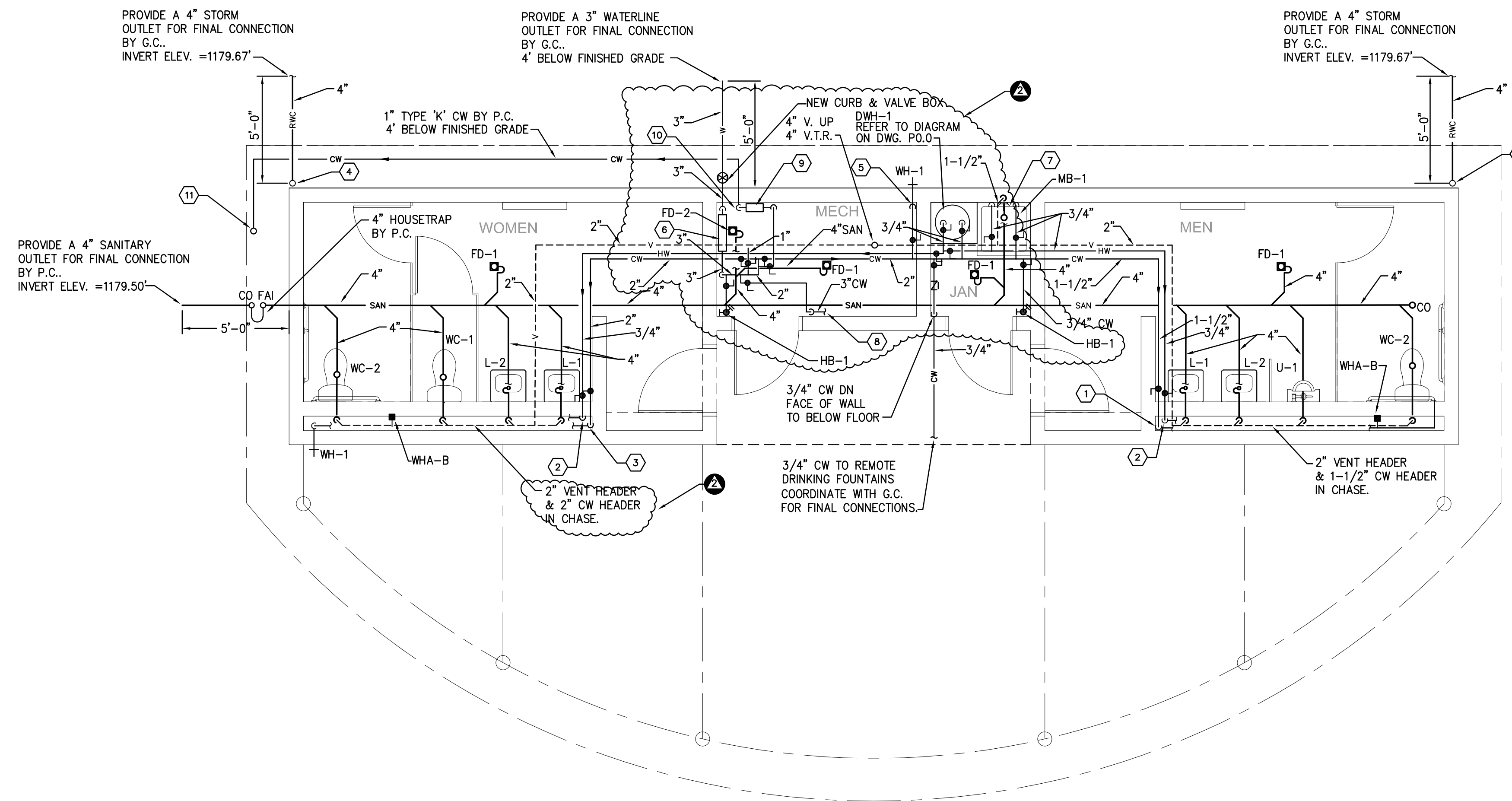
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PLUMBING DETAILS & SCHEDULE	DATE ISSUED	DATE PRINTED
	07/24/26	07/24/26

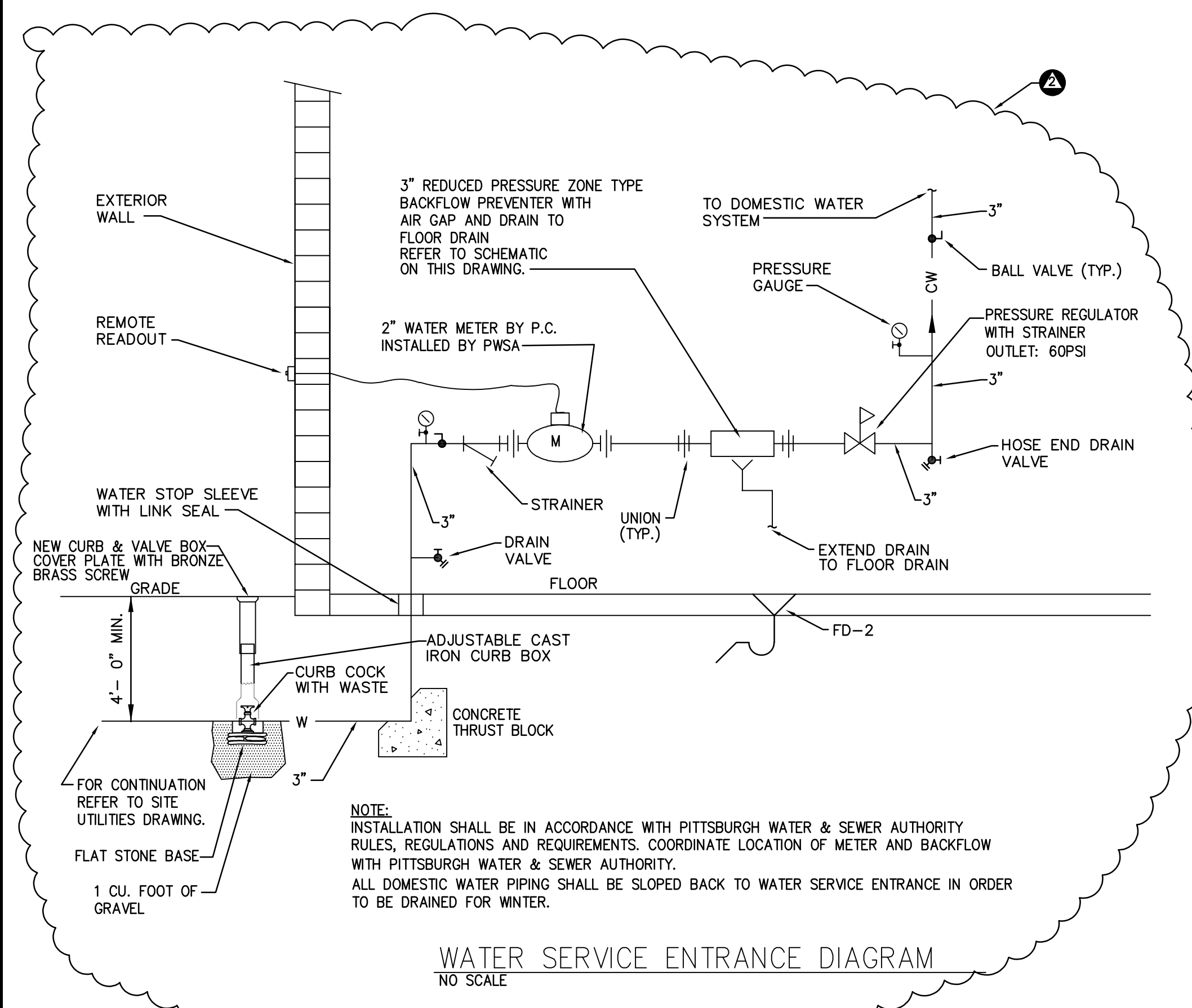
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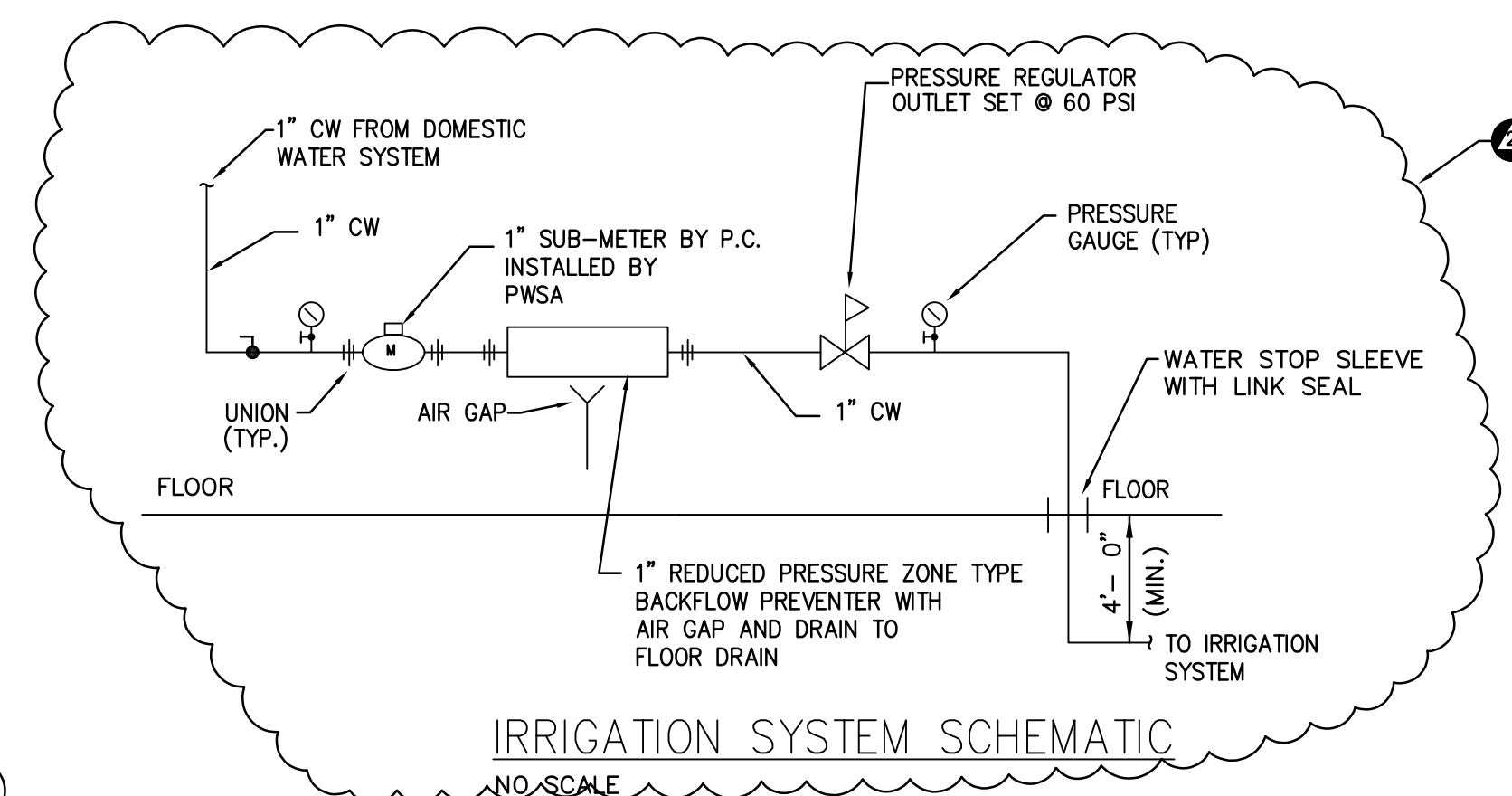
FIRST FLOOR PLAN

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



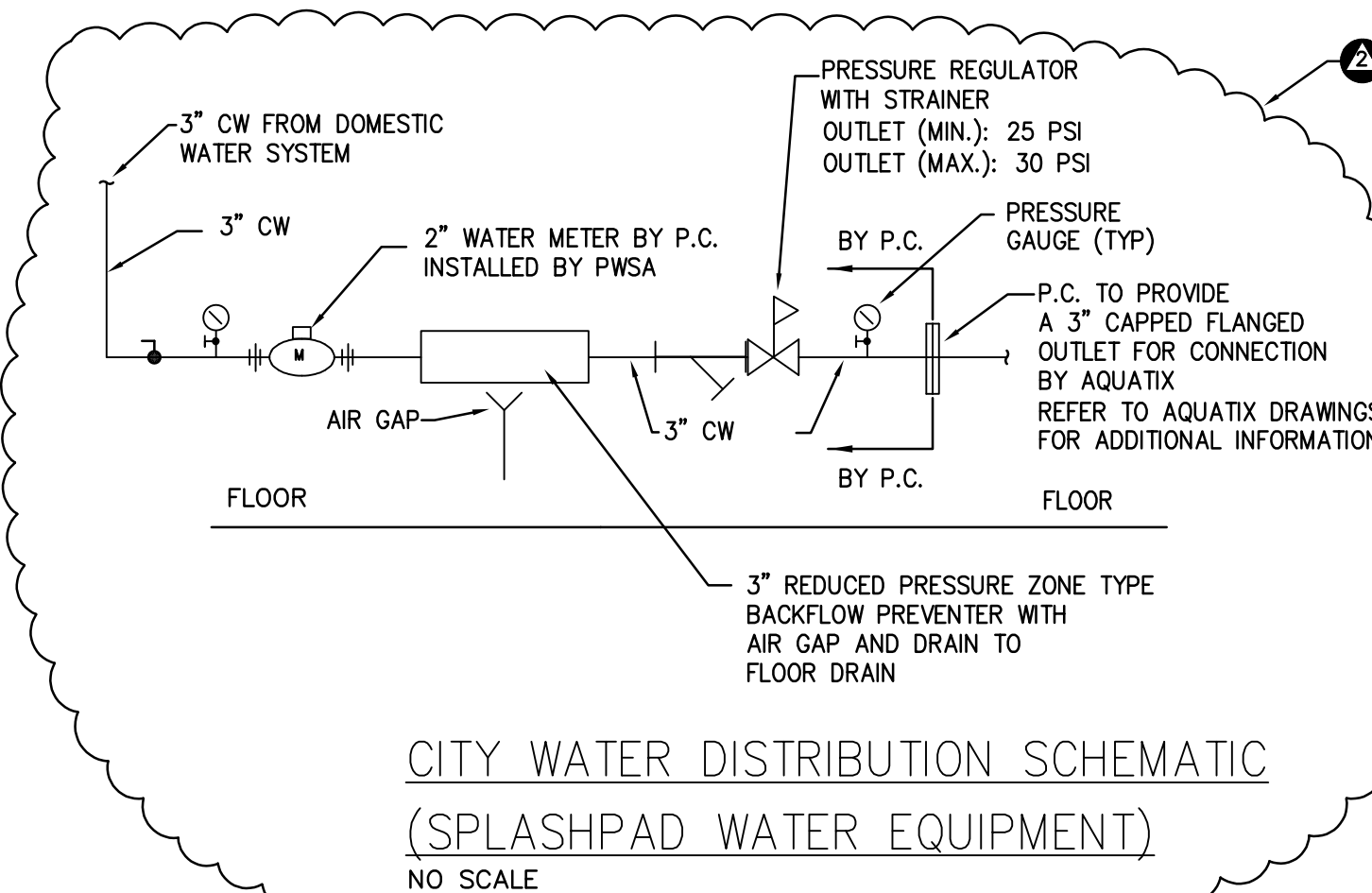
WATER SERVICE ENTRANCE DIAGRAM

NO SCALE



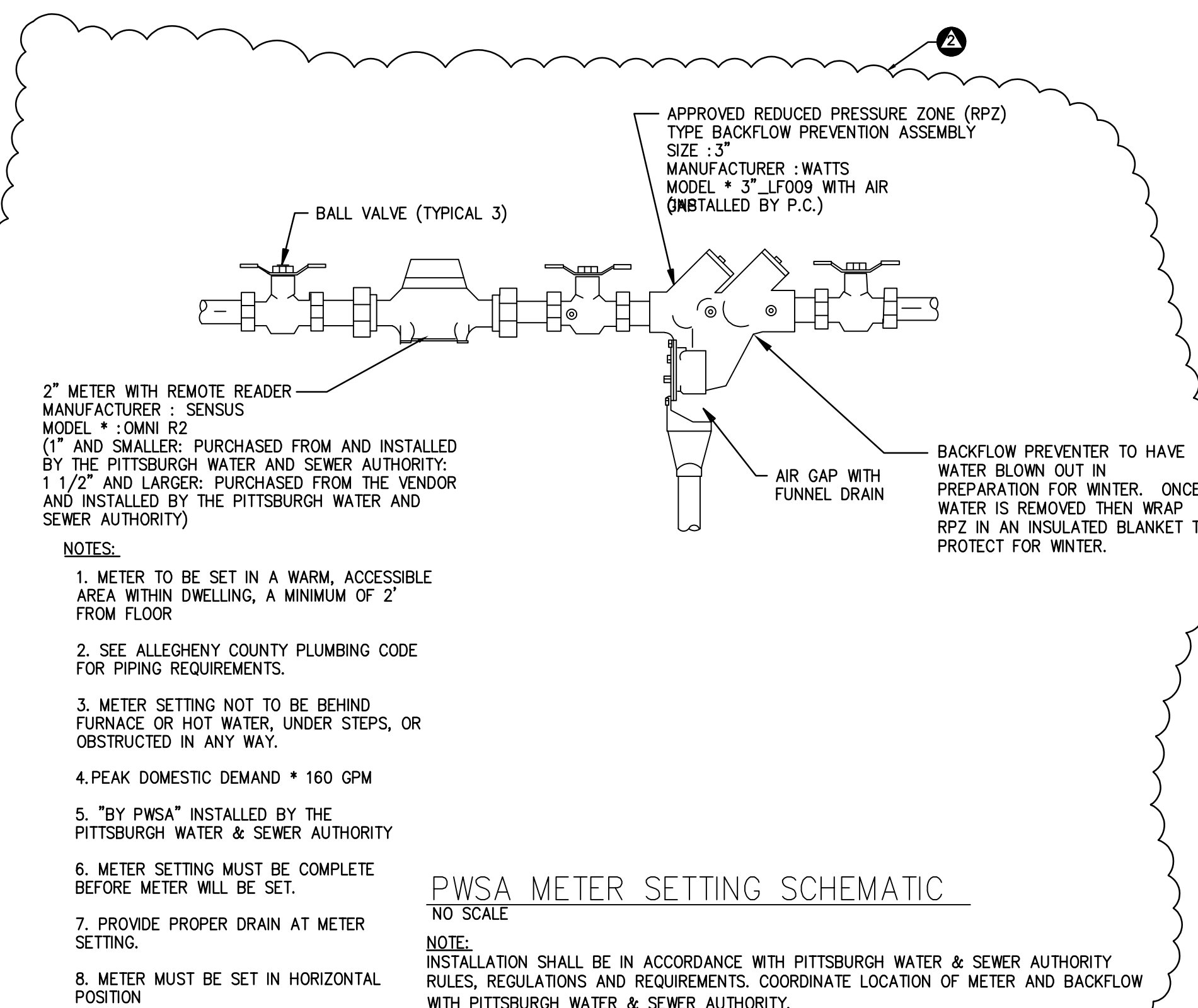
IRRIGATION SYSTEM SCHEMATIC

NO SCALE



CITY WATER DISTRIBUTION SCHEMATIC
(SPLASHPAD WATER EQUIPMENT)

NO SCALE



PWSA METER SETTING SCHEMATIC

NO SCALE

NOTE:
INSTALLATION SHALL BE IN ACCORDANCE WITH PITTSBURGH WATER & SEWER AUTHORITY
RULES, REGULATIONS AND REQUIREMENTS. COORDINATE LOCATION OF METER AND BACKFLOW
WITH PITTSBURGH WATER & SEWER AUTHORITY.

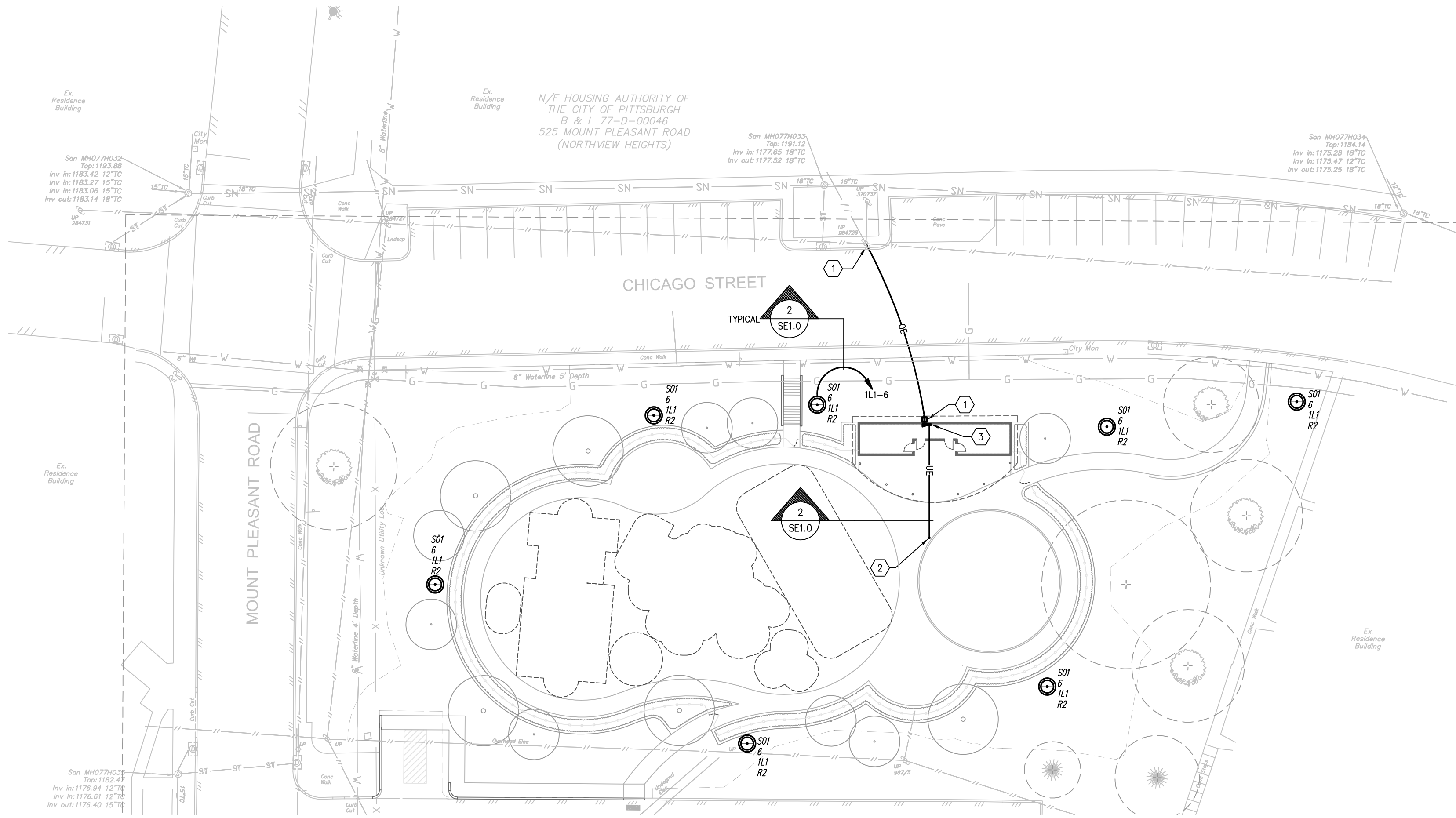
CODED NOTES: (THIS DRAWING)

- ① 1-1/2" CW DN IN CHASE TO SERVE FIXTURES. PROVIDE 1" CW TO EACH WATER CLOSET, 3/4" CW TO URINAL AND 1/2" CW TO EACH LAVATORY.
- ② 3/4" HW DN IN CHASE TO SERVE FIXTURES. PROVIDE 1/4" HW TO EACH LAVATORY. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE BELOW EACH LAVATORY.
- ③ 2" CW DN IN CHASE TO SERVE FIXTURES. PROVIDE 1" CW TO EACH WATER CLOSET, 3/4" CW TO WALL HYDRANT AND 1/2" CW TO EACH LAVATORY.
- ④ CONTRACTOR TO PROVIDE A 4" CAST-IRON DOWNSPOUT BOOT DSB-1.
- ⑤ 3/4" CW DN FACE OF WALL TO SERVE WALL HYDRANT.
- ⑥ NEW DOMESTIC WATER SERVICE ENTRANCE. REFER TO DETAIL ON THIS DRAWING. COORDINATE EXACT LOCATION WITH PITTSBURGH WATER & SEWER AUTHORITY.
- ⑦ 3/4" HW & CW DN FACE OF WALL TO SERVE MOP BASIN. 1-1/2" V. UP IN WALL AND 3" SAN DN TO BELOW FLOOR.
- ⑧ P.C. TO PROVIDE A 3" FLANGED CAPPED OUTLET FOR USE BY OTHERS.
REFER TO AQUATIX DRAWINGS FOR CONTINUATION AND FINAL CONNECTION.
- ⑨ P.C. TO REFER TO POINT OF CONNECTION SCHEMATIC ON DRAWING 1501 FOR PROVIDING AND INSTALLING IRRIGATION SYSTEM COMPONENTS INDICATED.
- ⑩ 1" CW DN BELOW FLOOR.
- ⑪ 1" CW FROM BELOW AND UP IN PLANTING BED. PROVIDE CAPPED OUTLET 12" ABOVE FINISHED GRADE OF PLANTING BED. COORDINATE WITH SITE CONTRACTOR ON EXACT LOCATION.

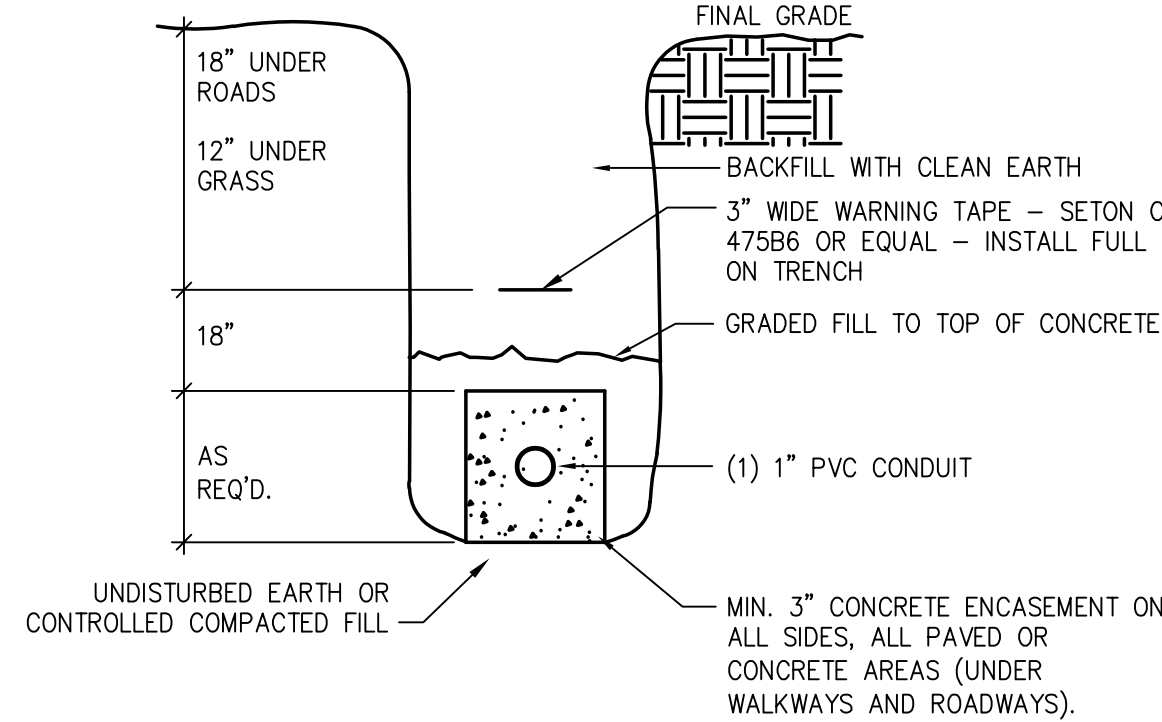
GENERAL NOTE : (MAINTENANCE WINTERIZATION

1. ALL PIPING TO BE SLOPED BACK TO WATER SERVICE IN ORDER TO BE DRAINED FOR WINTERIZATION.
2. ALL WATER LINES SHALL BE PURGED WITH COMPRESSED AIR TO RELEASE ANY WATER IN THE PIPING SYSTEM.
3. WATER HEATER IS TO BE DRAINED WITH HOSE RUNNING TO EXTERIOR OF BUILDING.
4. VACUUM OUT ALL THE WATER FROM SINK TRAPS AND FLOOR DRAIN TRAPS.
5. EMPTY WATER CLOSET BOWLS.
6. ADD RV GRADE POOL ANTI-FREEZE INTO EVERY DRAIN, SINK TRAP AND TOILET BOWL FOR WINTERIZATION.

FLOOR PLAN & DETAILS - PLUMBING		DRAWN BY TRZ		REVISIONS 1. 8/7/2024 REVISED FOR PERMIT 2. 7/24/2026 REVISED FOR BIDDING
HACP NVH - Family Recreational Area 525 Mt Pleasant Road, Pittsburg, PA 15214		CHECKED BY TRZ		
		DATE ISSUED 07/24/26		
		DATE PRINTED 07/24/26		

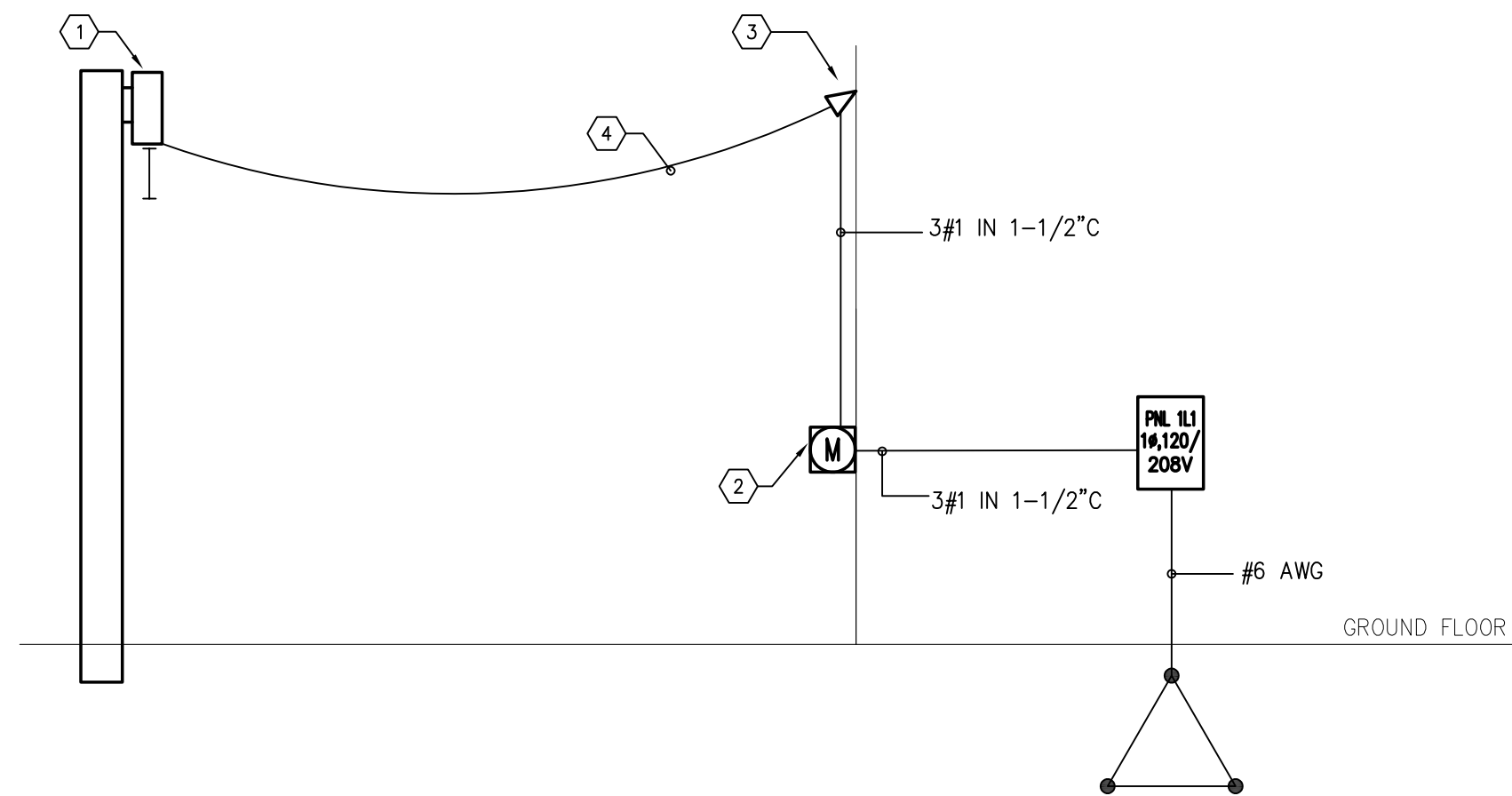


1 SITE PLAN
SCALE: 1" = 30'-0"



NOTE:
TYPICAL FOR ALL SITE LIGHTING CIRCUITING AND
BULLDOG AQUAVATOR

2 TRENCH DETAIL
NOT TO SCALE



3 ELECTRICAL SERVICE ENTRANCE DETAIL – ONE POLE
NOT TO SCALE

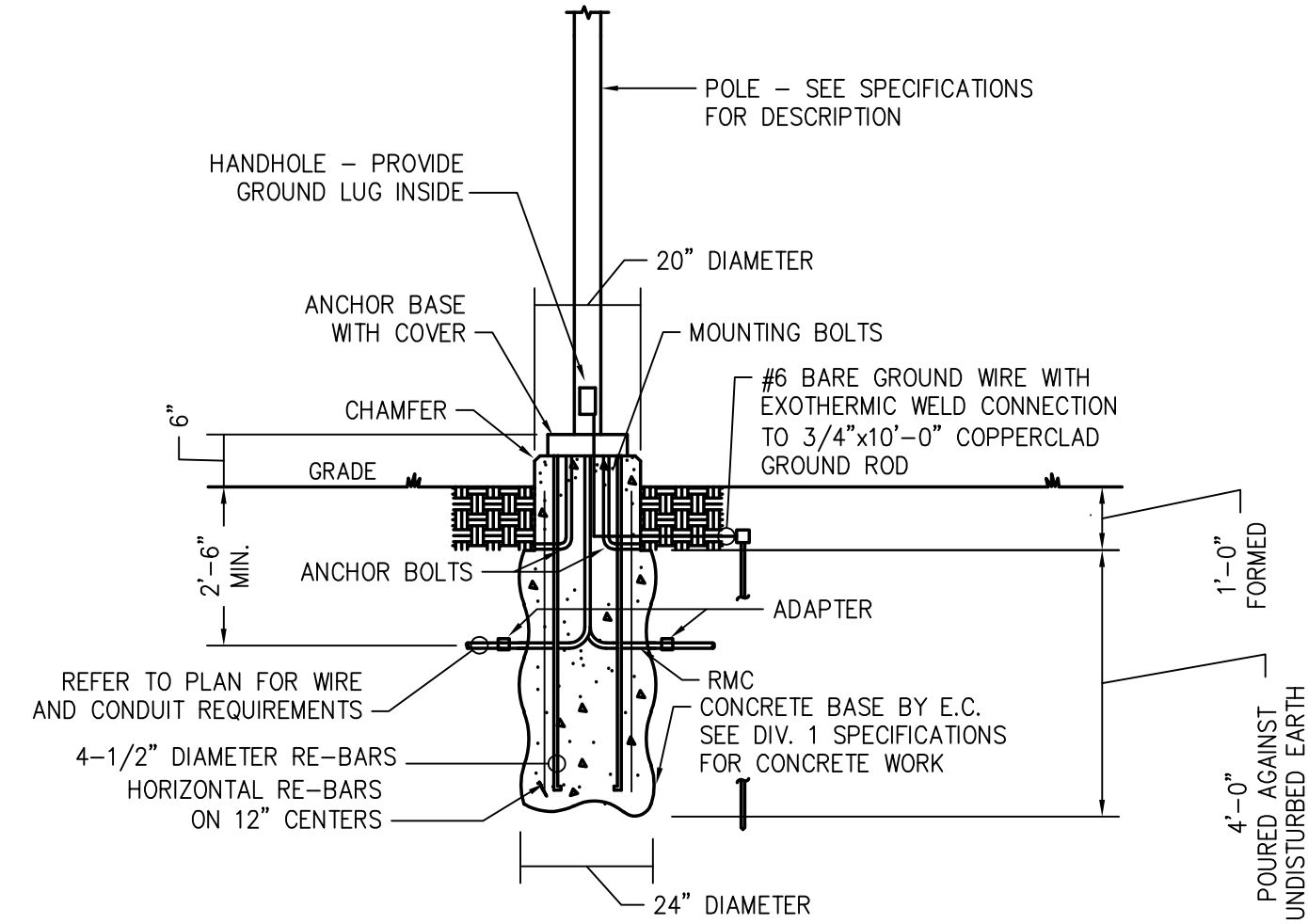
- CODED NOTES: (RISER DIAGRAM AND SITE PLAN)**
- UTILITY POLE WITH POLE-MOUNTED TRANSFORMER PROVIDED BY HACP.
 - PROVIDE METER SOCKET ON EXTERIOR OF BUILDING. HACP SHALL PROVIDE METER. COORDINATE METER SOCKET REQUIREMENTS WITH HACP PRIOR TO ROUGH-IN.
 - WEATHERHEAD TO ACCOMMODATE #1 AWG CONDUCTORS AND MOUNTING BRACKETS FURNISHED BY HACP. PROVIDE 3' OF CONDUCTORS AT WEATHERHEAD FOR CONNECTION TO OVERHEAD CONDUCTORS. COORDINATE LOCATION AND ALL REQUIREMENTS WITH HACP PRIOR TO ROUGH-IN.
 - NEW OVERHEAD CONDUCTORS BY HACP.

GENERAL NOTES: (THIS DRAWING)

- VERIFY CONDUIT TERMINATION LOCATION AND CABLING INSTALLATION FOR BULLDOG AQUAVATOR WITH SPLASH PAD EQUIPMENT SUPPLIER.
- PROVIDE LOW VOLTAGE CABLING RECOMMENDED BY SPLASH PAD EQUIPMENT SUPPLIER.

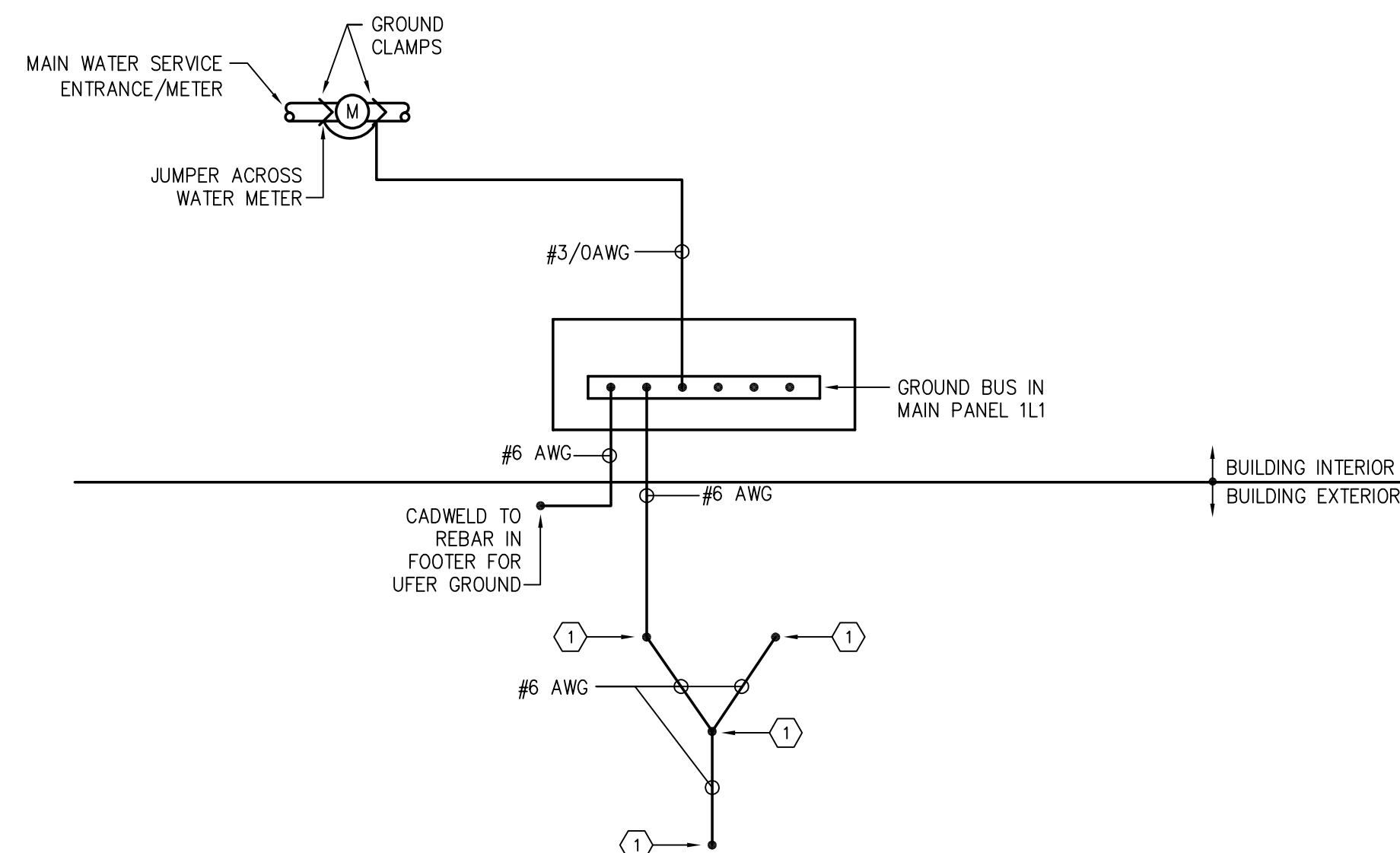
CODED NOTES: (THIS DRAWING)

- REFER TO DETAIL 3/SE1.0 FOR SERVICE ENTRANCE REQUIREMENTS.
- PROVIDE 1" CONDUIT FROM SPLASH PAD EQUIPMENT CONTROL PANEL AND STUBBED UP WITHIN BULLDOG AQUAVATOR. INSTALL LOW VOLTAGE CABLING, TERMINATED AT EQUIPMENT AND AT CONTROL PANEL.
- SPLASH PAD EQUIPMENT CONTROL PANEL.



NOTES:
1. REFER TO SPECIFICATION SECTION 265100 – LIGHTING FIXTURES FOR MORE DETAIL.

4 TYPICAL DETAIL OF LIGHT POLE – 6" BASE
NOT TO SCALE



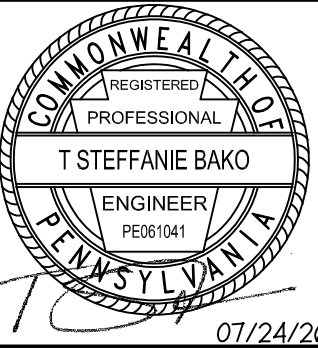
GENERAL NOTES: (GROUNDING DETAIL)

- ALL WIRE SHALL BE COPPER.

CODED NOTES: (GROUNDING DETAIL)

- PROVIDE DRIVEN GROUND RODS AND CADWELD CONNECTION IN ACCORDANCE WITH SPECIFICATION SECTION 260526.

5 SERVICE GROUNDING ELECTRODE REQUIREMENTS
NOT TO SCALE



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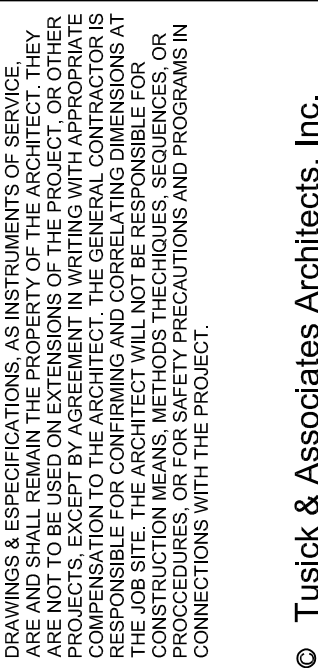
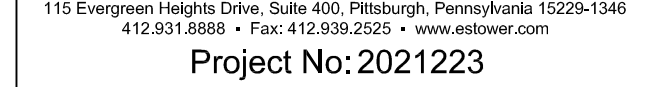
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SITE ELECTRICAL PLAN AND DETAILS
HACP NVH - Family Recreational Area
525 Mt. Pleasant Road,
Pittsburgh, PA 15214

SHEET NUMBER:
SE1.0



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E1.2

BUILDING MOUNTED LIGHTING FIXTURES

EMERGENCY LIGHTING FIXTURES

GENERAL LIGHTING FIXTURES

SITE LIGHTING FIXTURES

NOTES:

- REFERENCE SPECIFICATION – LIGHTING FIXTURES FOR DETAILED LAMP AND FIXTURE SPECIFICATIONS.
- CATALOG NUMBERS INDICATE THE GENERAL LINE OF FIXTURES REQUIRED AND MAY NOT NECESSARILY INCLUDE ALL PREFIXES AND SUFFIXES FOR OPTIONS AND/OR CONFIGURATIONS REQUIRED. WHERE A CONFLICT EXISTS BETWEEN THE DESCRIPTION AND THE CATALOG NUMBER, THE DESCRIPTION SHALL TAKE PRECEDENCE. BID PRICES SHALL BE BASED ON FIXTURES AS DESCRIBED IN THE DESCRIPTION. VOLTAGE SHALL BE 120VAC.
- THE LAMP COLUMN INDICATES THE NORMAL LAMP WATTAGE / SHAPE / COLOR TEMPERATURE / AND/OR DISTRIBUTION. LAMPS SHALL BE PROVIDED AS RECOMMENDED AND TESTED BY THE MANUFACTURER OF THE FIXTURE SPECIFIED. THE FIXTURE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LAMP BALLAST COMPATIBILITY.
- INTERIORS SHALL HAVE A MINIMUM CRI OF 82.
- ALL EXTERIOR LED LAMPS SHALL HAVE A COLOR TEMPERATURE OF 3500K, EXTERIOR LAMPS SHALL HAVE A COLOR TEMPERATURE OF 4000K.

VOLTAGE:	120/208V, 1PH, 3W	PANEL TAG:	1L1	MIN. AIC:	10K
SIZE/TYPE BUS:	100A COPPER	LOCATION:	MECHANICAL ROOM	MOUNTING:	SURFACE
SIZE/TYPE MAIN:	100A MAIN CIRCUIT BREAKER			OPTIONS:	

PROGRAMMABLE LOW VOLTAGE LIGHTING CONTROL RELAY SCHEDULE



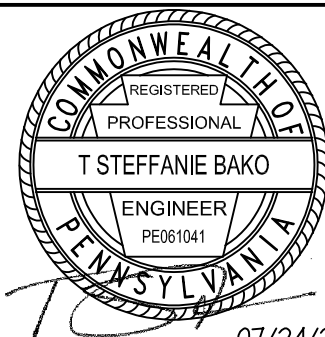
EQUIPMENT TAG	DESCRIPTION	LOAD	VOLTAGE & PHASE	BRANCH CIRCUIT PROTECTION	SETS	BRANCH CIRCUIT SIZE AND TYPE							
						CONDUIT		CONDUCTORS				GROUND	
						SIZE	TYPE	NO.	SIZE	TYPE	SIZE	TYPE	
DWH-1	DOMESTIC WATER HEATER	6 KW	208V,1Ø,2W	40A/2P	1	1"	EMT	2	8AWG	CU THWN	10AWG	CU THWN	
EF-1	EXHAUST FAN	1/4 HP	120V,1Ø,2W	20A/1P	1	3/4"	EMT	2	12AWG	CU THWN	12AWG	CU THWN	

GENERAL NOTES: (THIS DRAWING)

- A. VERIFY SOLENOID VALVE QUANTITY WITH SPLASH PAD EQUIPMENT SUPPLIER.
B. PROVIDE LOW VOLTAGE CABLING RECOMMENDED BY SPLASH PAD EQUIPMENT SUPPLIER.

CODED NOTES: (THIS DRAWING)

- ① PROVIDE POWER CONNECTION WITH 2#10 AND 1#10G IN 3/4" C FOR SPLASH PAD EQUIPMENT CONTROL PANEL. INSTALL LOW VOLTAGE CABLING, TERMINATED AT SOLENOID VALVES AND AT CONTROL PANEL.
② REFER TO DRAWING SE1.0 FOR CONTINUATION.
③ PROVIDE MANUAL OVERRIDE SWITCHES AND POWER PACKS FOR MEN'S AND WOMEN'S BATHROOMS IN ACCORDANCE WITH DETAIL 5/E001.



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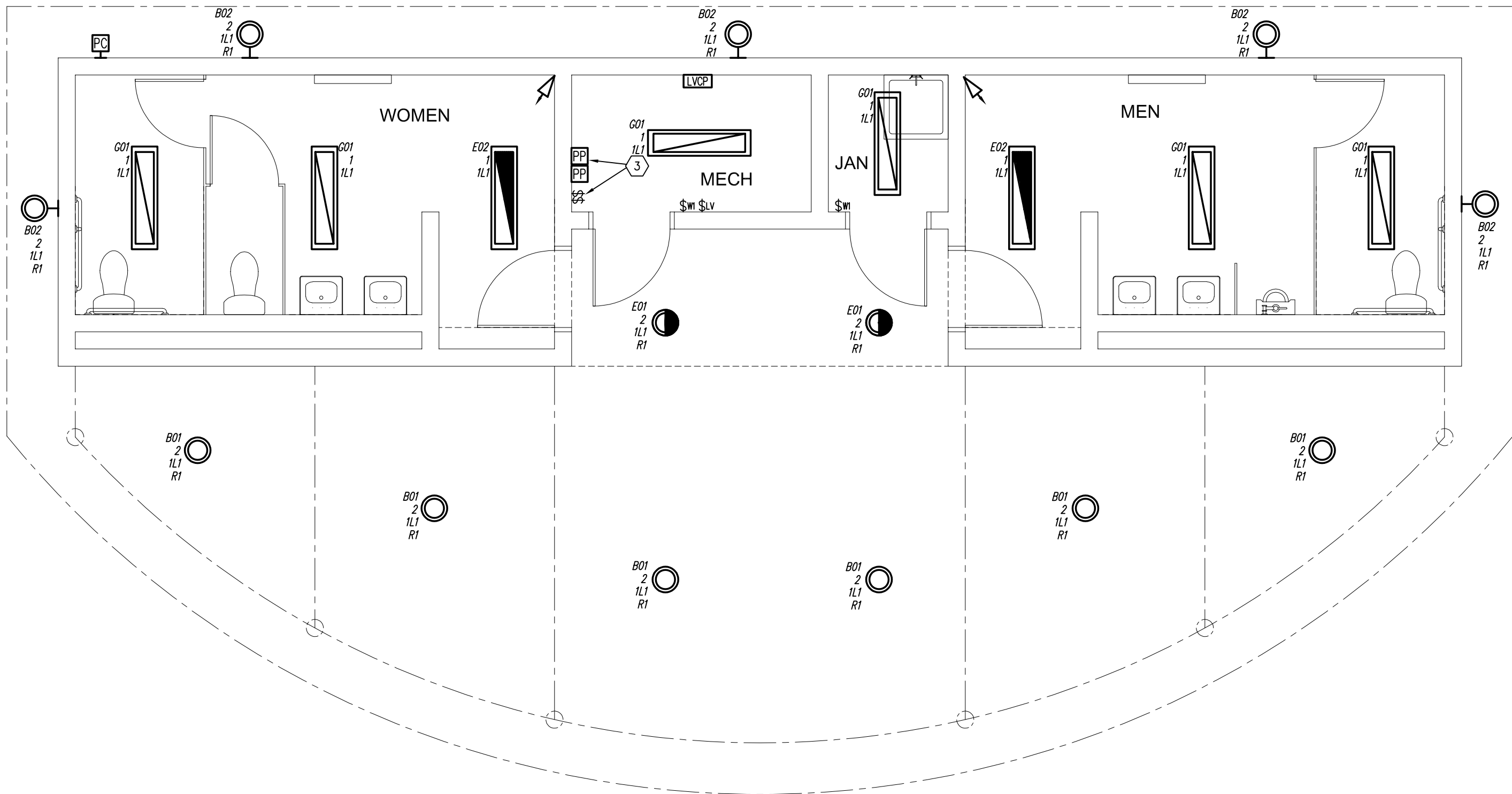
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ELECTRICAL FLOOR PLANS

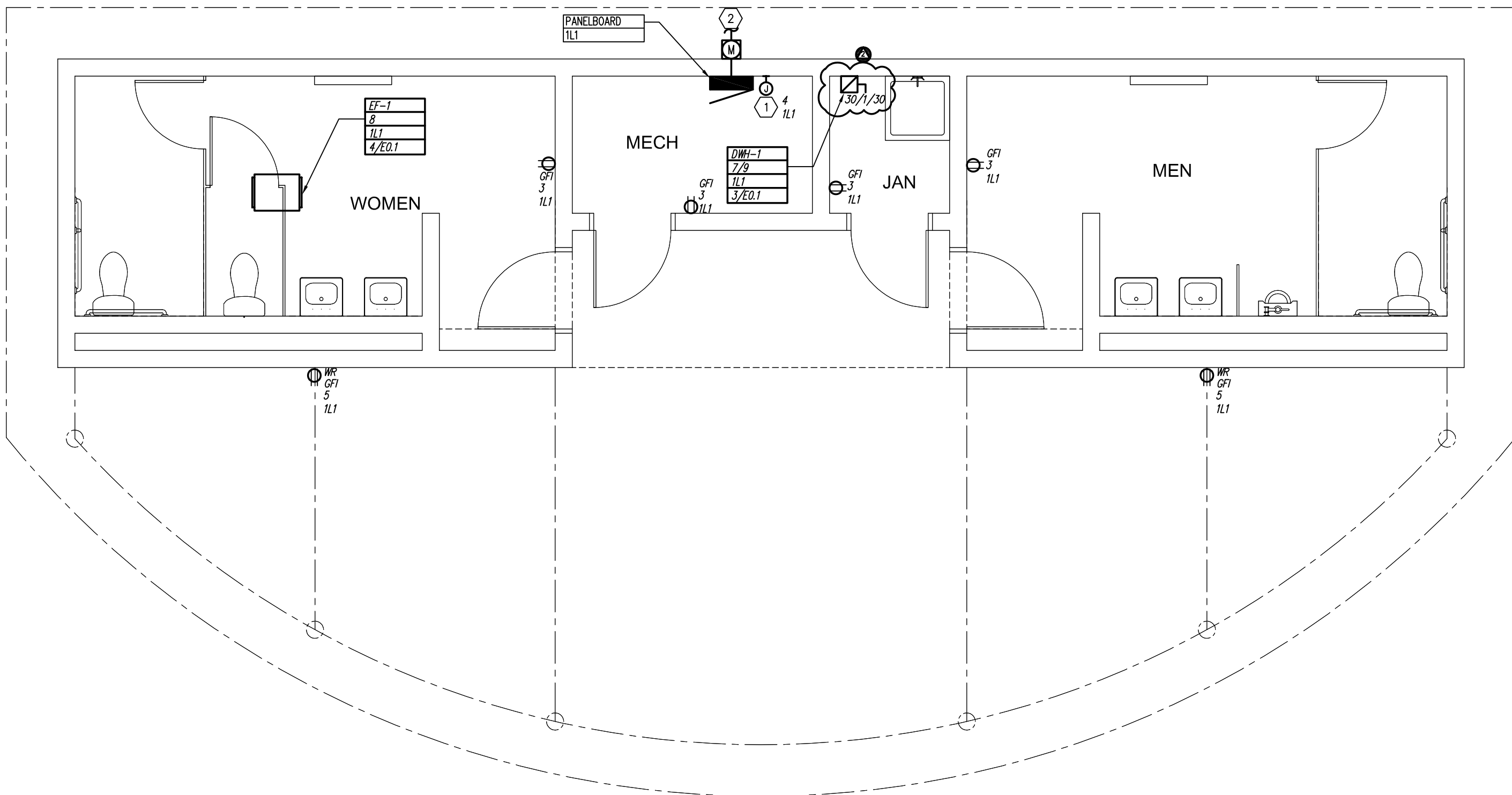
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SHEET NUMBER:

E1.1



1 LIGHTING PLAN
E1.1 SCALE: 1/4" = 1'-0"



ELECTRICAL SYMBOL LEGEND

GENERAL DRAWING SYMBOLS

	DETAIL INDICATOR "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION "DWG" DENOTES NUMBER WHERE DETAIL IS DRAWN
	SECTION INDICATOR "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION "DWG" DENOTES NUMBER WHERE SECTION IS DRAWN
	COLUMN LINE OR GRID INDICATOR "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION
	ELEVATION/VIEW INDICATOR "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION "DWG" DENOTES NUMBER WHERE DETAIL IS DRAWN
	REVISION INDICATOR "NO" DENOTES REVISION LEVEL
	CODED NOTE "NO" DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION

SITE UTILITIES

	SERVICE METER
	UTILITY POLE
	UNDERGROUND DUCT BANK – SEE DRAWING SECTION AS INDICATED BY TAG
	NOMENCLATURE: – "OE" DENOTES OVERHEAD ELECTRIC – "UE" DENOTES UNDERGROUND ELECTRIC

GENERAL NOTES

- A. NOTES PERTAINING TO ALL BRANCH CIRCUITING:**
- ALL ELECTRICAL DEVICES HAVE BRANCH CIRCUIT NUMBERS INDICATED ADJACENT TO THE POWER CONNECTION SYMBOL ON THE PLANS. ALTHOUGH THE INTERCONNECTING BRANCH CIRCUITING IS NOT SHOWN, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRE AND CONDUIT REQUIRED FOR A COMPLETE AND OPERATIONAL POWER DISTRIBUTION SYSTEM.
 - UNLESS NOTED OTHERWISE, ON THE DRAWINGS, ALL BRANCH CIRCUITING SHALL BE INSTALLED CONCEALED IN EMT, 3/4" MINIMUM.
 - ALL CONDUIT SHALL BE 3/4" EMT, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS ALSO APPLY:
 - ALL BRANCH CIRCUIT WIRING TO SITE LIGHTING FIXTURES SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
 - THE CONDUIT FOR ALL FEEDERS SHALL BE AS SCHEDULED UNDER DETAIL 3/SE1.0.
 - THE CONDUIT FOR ALL PLUMBING AND HVAC EQUIPMENT SHALL BE AS SCHEDULED UNDER THE 'MECHANICAL EQUIPMENT SCHEDULE'.
 - MAXIMUM CONDUIT SIZE IN CONCRETE SLABS SHALL BE 1" PVC.
 - ALL BRANCH CIRCUIT WIRING SHALL BE #12AWG THHN COPPER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS APPLY:
 - BRANCH CIRCUIT WIRING TO ALL SITE LIGHTING FIXTURES SHALL BE #10AWG THHN COPPER, UNLESS NOTED AS A LARGER SIZE ON THE DRAWINGS.
 - THE WIRE FOR ALL FEEDERS SHALL BE AS SCHEDULED UNDER DETAIL 3/SE1.0.
 - THE WIRE FOR ALL PLUMBING AND HVAC EQUIPMENT SHALL BE AS SCHEDULED UNDER THE 'MECHANICAL EQUIPMENT SCHEDULE'.
 - THE MAXIMUM NUMBER OF CURRENT CARRYING WIRING (DOES NOT INCLUDE GROUND WIRE) IN ANY ONE CONDUIT SHALL NOT EXCEED SIX (6), UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE FOLLOWING EXCEPTIONS APPLY:
 - CONDUIT RUNS TO WALL SWITCHES.
- B. NOTES PERTAINING TO GROUNDING:**
- PROVIDE A SEPARATE INSULATED GROUND WIRE IN EACH CONDUIT RUN. MINIMUM WIRE SIZE SHALL BE #12AWG. GROUND WIRE IS TYPICALLY NOT SHOWN.
- C. NOTES PERTAINING TO THE LOCATION OF ALL EQUIPMENT AND DEVICES:**
- OBTAIN WRITTEN APPROVAL OF LOCATIONS OF ALL ELECTRICAL DEVICES FROM THE OWNER AND THE ARCHITECT PRIOR TO ROUGH-IN. THE OWNER RESERVES THE RIGHT TO MOVE ANY OR ALL ELECTRICAL DEVICES PRIOR TO ROUGH-IN, AT NO ADDITIONAL COST.
 - COORDINATE THE LOCATION AND SERVICE REQUIREMENTS OF ALL HVAC, PLUMBING AND KITCHEN EQUIPMENT WITH THE RESPECTIVE CONTRACTORS. INFORM THE ARCHITECT OF ANY CONFLICTS IMMEDIATELY.
 - THE ELECTRICAL CONTRACTOR SHALL CHECK ALL ARCHITECTURAL, HVAC, PLUMBING AND FOOD SERVICE DRAWINGS FOR THE LOCATION OF SINKS. RECEPTACLES SHALL BE LOCATED A MINIMUM OF 1" FROM THE EDGE OF ANY SINK, EVEN IF SHOWN CLOSER TO THE SINK ON THE ELECTRICAL DRAWINGS.
- D. NOTES PERTAINING TO ALL SWITCHING**
- CHECK ALL DRAWINGS FOR WALL SWITCHES. SWITCHES ARE SHOWN ON LIGHTING, POWER, AND SYSTEM PLANS.
 - WHERE ONE OR MORE WALL SWITCHES APPEAR IN THE SAME GENERAL LOCATION, SWITCHES SHALL BE GROUPED AND INSTALLED IN ONE WALL BOX WITH ONE CONTINUOUS COMMON COVER PLATE. WHERE POSSIBLE, WHERE GROUPING IS NOT POSSIBLE DUE TO SIZE OR TYPE OF DEVICE, GROUP DEVICES CLOSE TOGETHER AND AT THE EXACT SAME MOUNTING HEIGHT.
- E. NOTES PERTAINING TO EQUIPMENT LABELING:**
- PROVIDE NAMEPLATE LABELS ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH DETAIL 2/E1.0.
 - PROVIDE ARC FLASH HAZARD LABELING ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH SPECIFICATION SECTION 260573.
- F. NOTES PERTAINING TO CUTTING AND PATCHING:**
- ALL OPENINGS IN EXISTING STRUCTURAL ELEMENTS, REQUIRED FOR COMPLETION OF THE CONTRACT (SUCH AS FLOORS, WALLS, CEILINGS, AND ROOFS), SHALL BE CUT AND/OR PATCHED BY THE ELECTRICAL CONTRACTOR.

GENERAL ABBREVIATIONS

A	AMPERE	OC	ON CENTER
AC	ABOVE COUNTER	OEM	ORIGINAL EQUIPMENT MANUFACTURER
AFF	ABOVE FINISHED FLOOR	Ø	PHASE
AWG	AMERICAN WIRE GAUGE	P	POLE
C	CONDUIT	PB	PUSH BUTTON
CKT	CIRCUIT	PH	PHASE
CB	CIRCUIT BREAKER	PBL	PANELBOARD
CONN	CONNECTION	POS	POSITION
CU	COPPER	PRI	PRIMARY
DISC	DISCONNECT	PWR	POWER
DWG	DRAWING	REC	RECESSED
E	EMERGENCY OR EMERGENCY SYSTEM	RECPT	RECEPTACLE
EMT	ELECTRIC METALLIC TUBING	REQ	REQUIRED
EQUIP	EQUIPMENT	RMC	RIGID GALVANIZED METAL CONDUIT
EWC	ELECTRIC WATER COOLER	SCH	SCHEDULE
EX	EXISTING	SEC	SECONDARY
FA	FIRE ALARM	SM	SURFACE MOUNTED
FBO	FURNISHED BY OTHERS WITH ALL RELATED ELECTRICAL WORK BY ELECTRICAL CONTRACTOR	SW	SWITCH
FDR	FEEDER	SWBD	SWITCHBOARD
FH	FUME HOOD	TELE	TELEPHONE
FT	FEET	TL	TWIST LOCK
GND	GROUND OR GROUNDED	TP	TAMPER PROOF
GRD	GROUND OR GROUNDED	TV	TELEVISION
HP	HORSEPOWER	TYP	TYPICAL
IN	INCH	UC	UNDER COUNTER
JB	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE
KW	KILOWATT	V	VOLT
LTG	LIGHTING	W	WATT
MSF	MAIN SWITCH AND FUSE	W/	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MFR	MANUFACTURER	WP	WEATHER PROOF ENCLOSURE
MH	MANHOLE	X	EXISTING TO REMAIN
MLO	MAIN LUG ONLY	XA	EXISTING TO BE REMOVED COMPLETELY
MTD	MOUNTED	XP	EXPLOSION PROOF
MTG	MOUNTING	XR	RELOCATED EXISTING EQUIPMENT
NA	NOT APPLICABLE	XRN	EXISTING TO BE REMOVED AND REPLACED WITH NEW DEVICE
NIC	NOT IN THIS CONTRACT	XRR	EXISTING TO BE REMOVED AND RELOCATED
NO	NUMBER	Y	STAR OR WYE DISTRIBUTION SYSTEM
NTS	NOT TO SCALE		

UTILITY COMPANY ABBREVIATIONS

HACP	THE HOUSING AUTHORITY OF THE CITY OF PITTSBURGH
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CONTRACTOR ABBREVIATIONS

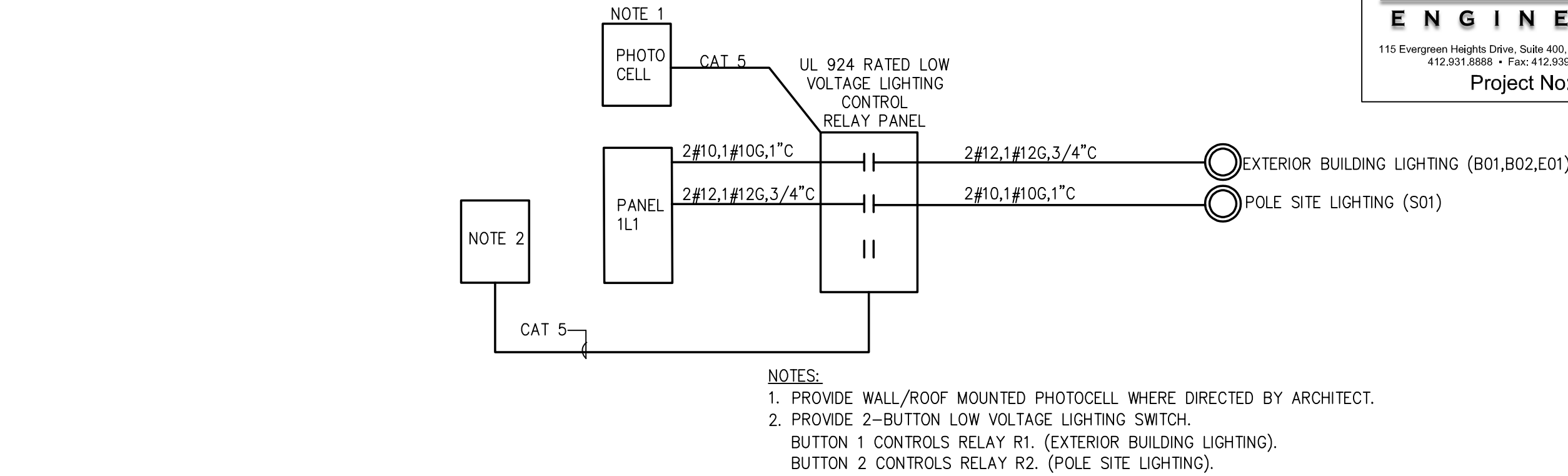
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
HC	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
PC	PLUMBING CONTRACTOR

LIGHTING

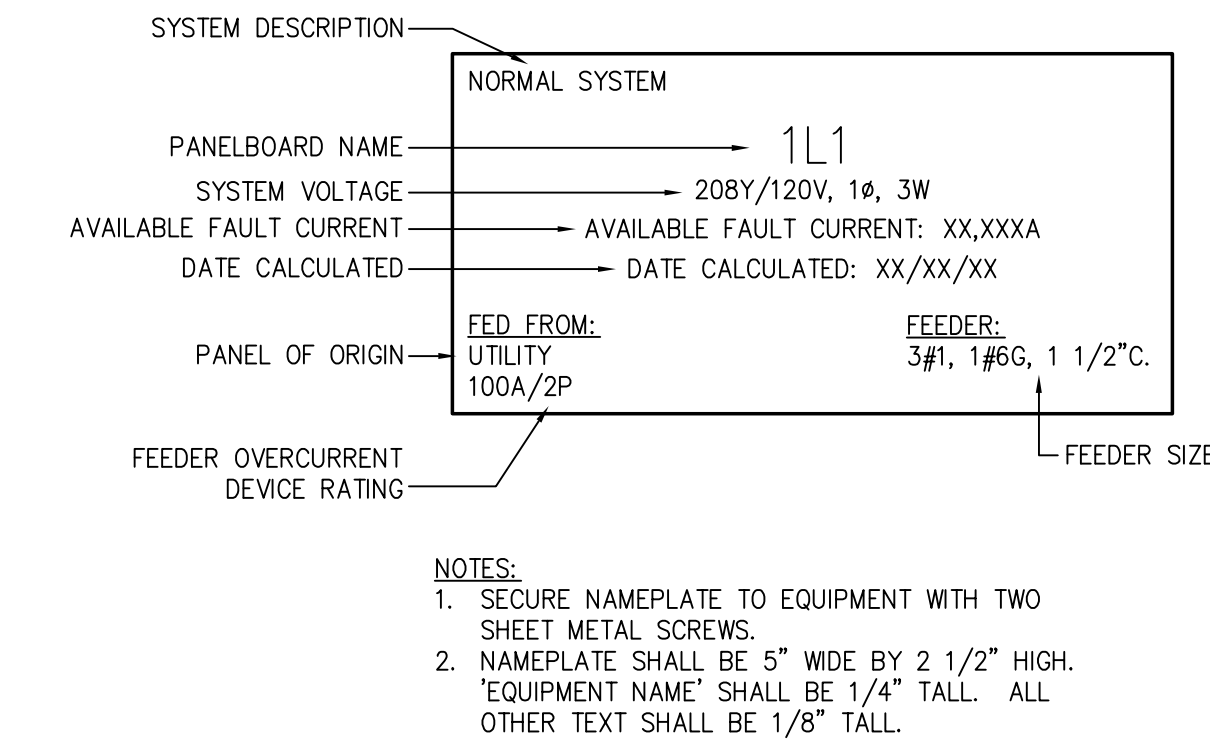
	LED LIGHTING FIXTURE, WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT (UNO)
	INDIVIDUAL LED LIGHTING FIXTURE, WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT (UNO)
	NORMAL/EMERGENCY LIGHTING FIXTURE, WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT (UNO)
	POLE MOUNTED FIXTURE
	NOMENCLATURE: – "G01" DENOTES TYPE (REFER TO LIGHTING FIXTURE SCHEDULE) – "1" DENOTES CIRCUIT NUMBER – "1L1" DENOTES PANELBOARD – "R1" DENOTES SWITCH CONTROL
	NOTES: 1. ADJACENT FIXTURES WITHOUT TAGS TO BE SAME TYPE AS TAGGED FIXTURES 2. REFER TO LIGHTING FIXTURE SCHEDULE FOR LIGHTING FIXTURE DESCRIPTIONS 3. WHERE POSSIBLE, LIGHTING FIXTURES AS SHOWN ACTUAL SIZE AND CONFIGURATION.
	WALL SWITCH – MOUNT 48" AFF TO TOP OF BOX, UNO NOMENCLATURE: – LOWER CASE LETTER ADJACENT TO SYMBOL DESIGNATES SWITCH TAG – "W1" DENOTES PASSIVE INFRARED AUTOMATIC WALL SWITCH – "LV" DENOTES LOW VOLTAGE SWITCH. REFER TO DETAIL 1/E1.0.
	LOW VOLTAGE RELAY PANEL, MOUNT AT 6'-0" AFF TO TOP (UNO).
	PHOTOCELL – MOUNT AS DIRECTED ON DRAWINGS
	LOW VOLTAGE LIGHTING CONTROL POWER PACK. WATSTOPPER BZ-150 OR APPROVED EQUAL
	WALL MOUNTED LOW VOLTAGE LIGHTING CONTROL DUAL TECH OCCUPANCY SENSOR WITH 30 MINUTE TIME DELAY. WATSTOPPER DT-200 OR APPROVED EQUAL

POWER

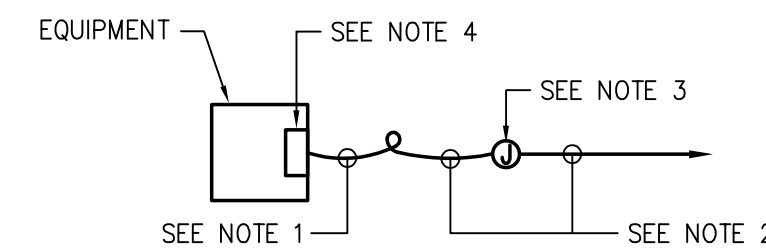
	JUNCTION BOX – MOUNT 18" AFF, UNO
	DUPLEX OUTLET RECEPTACLE – MOUNT 18" AFF, UNO
	NOMENCLATURE: – "1" DENOTES CIRCUIT NUMBER – TWO NUMBERS SEPARATED BY A SLASH (e.g. 31/33) INDICATES A 2-POLE CIRCUIT TO BE CONNECTED TO POSITIONS 31 AND 33 IN THE PANELBOARD. THREE NUMBERS SEPARATED BY A SLASH (e.g. 31/33/35) INDICATES A 3-POLE CIRCUIT IN THE PANELBOARD. NUMBERS SEPARATED BY COMMAS, INDICATES INDIVIDUAL SINGLE-POLE CIRCUITS (e.g. 31,33,35). – "1L1" DENOTES PANELBOARD – "GF" DENOTES GROUND FAULT INTERRUPTING RECEPTACLE – "WR" DENOTES WEATHER RESISTANT RECEPTACLE WITH EXTRA HEAVY DUTY BOX COVER – "EMC" DENOTES OFCI TYPE RECEPTACLE FOR ELECTRIC WATER COOLER, MOUNTED DIRECTLY UNDER WATER COOLER IN CENTER LINE OF COOLER – COORDINATE WITH PC
	FUSED SAFETY DISCONNECT SWITCH – MOUNT 6'-0" AFF TO TOP OF ENCLOSURE, UNO NOMENCLATURES: – DENOTES FUSE SIZE – DENOTES NUMBER OF POLES – DENOTES SWITCH RATING
	PANELBOARD, MOUNT 6'-0" AFF TO TOP CIRCUIT BREAKER
	EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS – REFER TO EQUIPMENT SCHEDULE FOR SPECIFICATION NOMENCLATURES: – DENOTES EQUIPMENT NUMBER (REFER TO SCHEDULE) – DENOTES POSITION IN PANELBOARD. TWO NUMBERS SEPARATED BY A SLASH (e.g. 31/33) INDICATES A 2-POLE CIRCUIT TO BE CONNECTED TO POSITIONS 31 AND 33 IN THE PANELBOARD. THREE NUMBERS SEPARATED BY A SLASH (e.g. 31/33/35) INDICATES A 3-POLE CIRCUIT IN THE PANELBOARD. NUMBERS SEPARATED BY COMMAS, INDICATES INDIVIDUAL SINGLE-POLE CIRCUITS (e.g. 31,33,35). – DENOTES PANELBOARD EQUIPMENT SHALL BE CONNECTED TO – DENOTES REFERENCE TO EQUIPMENT CONNECTION DETAIL
	GROUND CONNECTION PER NEC, UNO



1 LIGHTING CONTROL DETAIL
E1.0 NOT TO SCALE

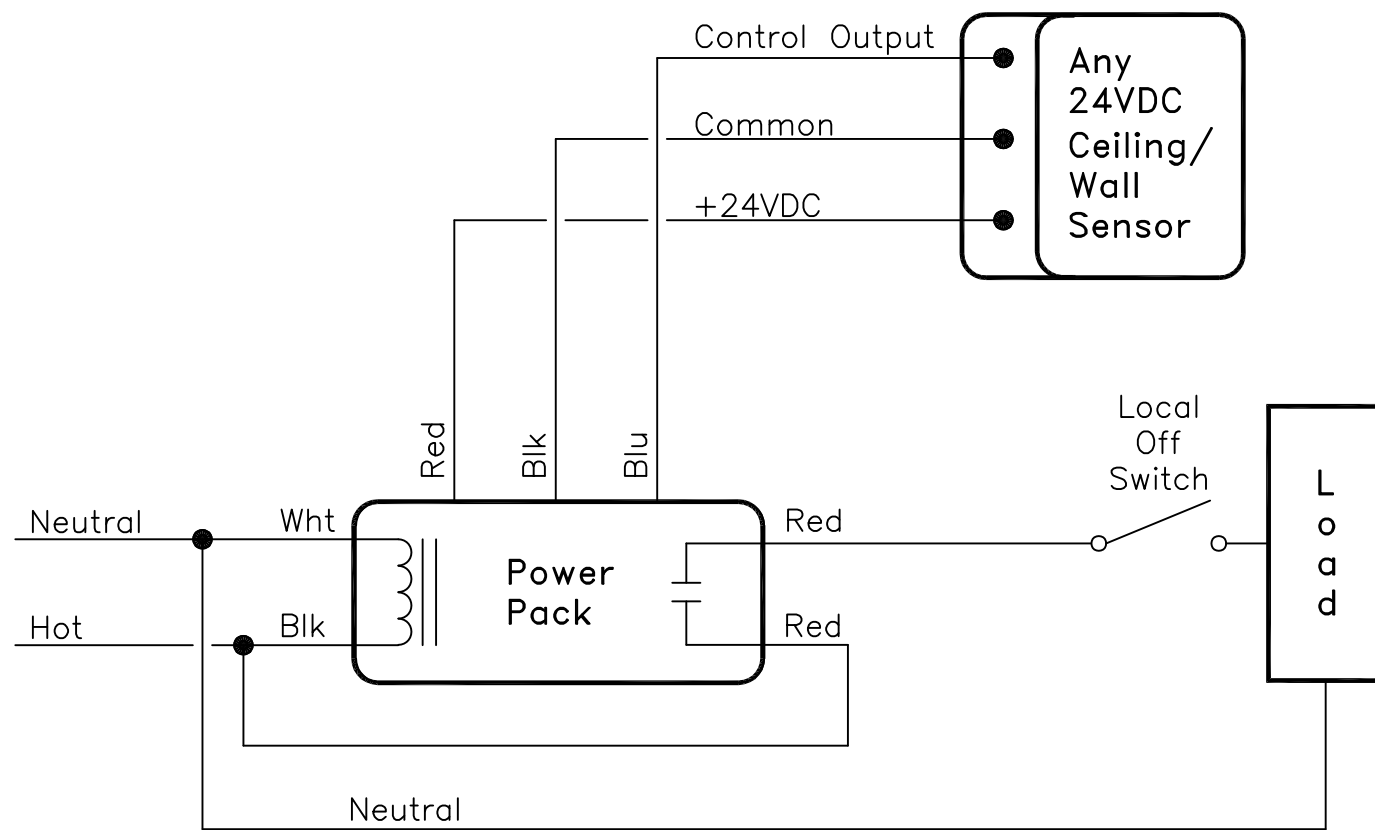


2 PANELBOARD NAMEPLATE DETAIL
E1.0 NOT TO SCALE



- NOTES:
1. PROVIDE FLEXIBLE CONDUIT IN ACCORDANCE WITH THE SPECIFICATION.
2. PROVIDE WIRING IN ACCORDANCE WITH EQUIPMENT SCHEDULE.
3. PROVIDE A JUNCTION BOX ADJACENT TO EQUIPMENT.
4. CONNECT TO INTEGRAL DISCONNECT SWITCH OR CONTROL PANEL IN UNIT.

4 EQUIPMENT CONNECTION DETAIL
E1.0 NOT TO SCALE

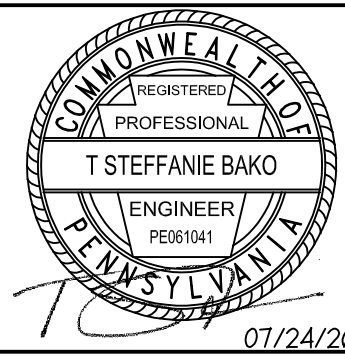


5 TYPICAL CEILING MOUNTED OCCUPANCY SENSOR DETAIL – SINGLE CIRCUIT
E1.0 NOT TO SCALE

TOWER ENGINEERING

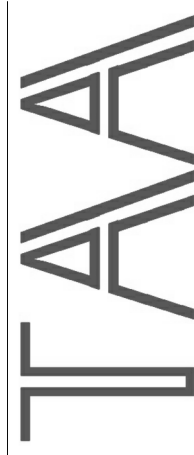
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REVISIONS	DRAWN BY	CHECKED BY	DATE ISSUED	DATE PRINTED
1. 8/7/2024 REVISED FOR PERMIT	JVM	TSB	07/24/26	07/24/26
2. 7/24/2026 REVISED FOR BIDDING				
ELECTRICAL LEGEND AND DETAILS				
HACP NVH - Family Recreational Area 525 Mt Pleasant Road, Pittsburgh, PA 15214				

SHEET NUMBER:

E1.0