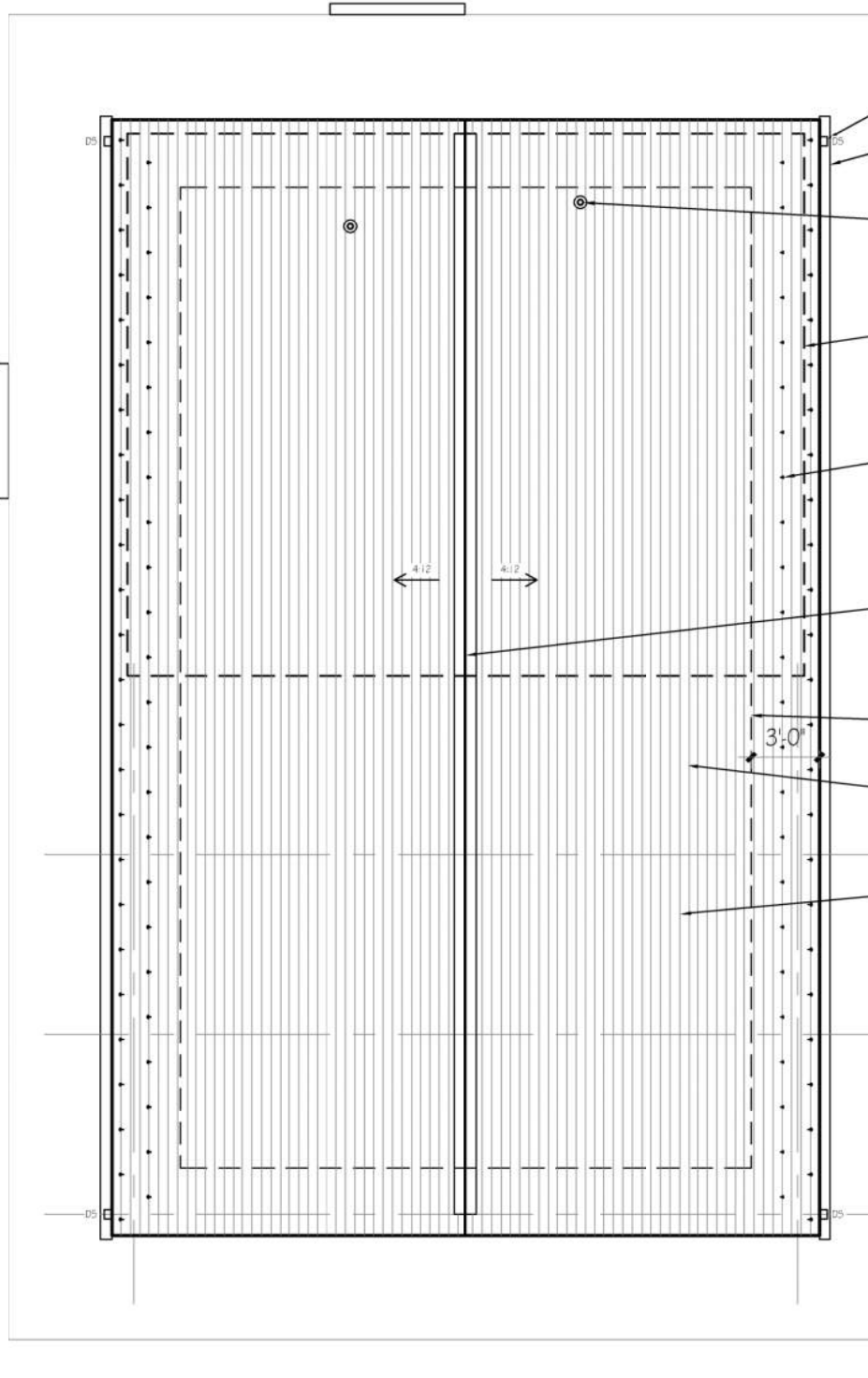
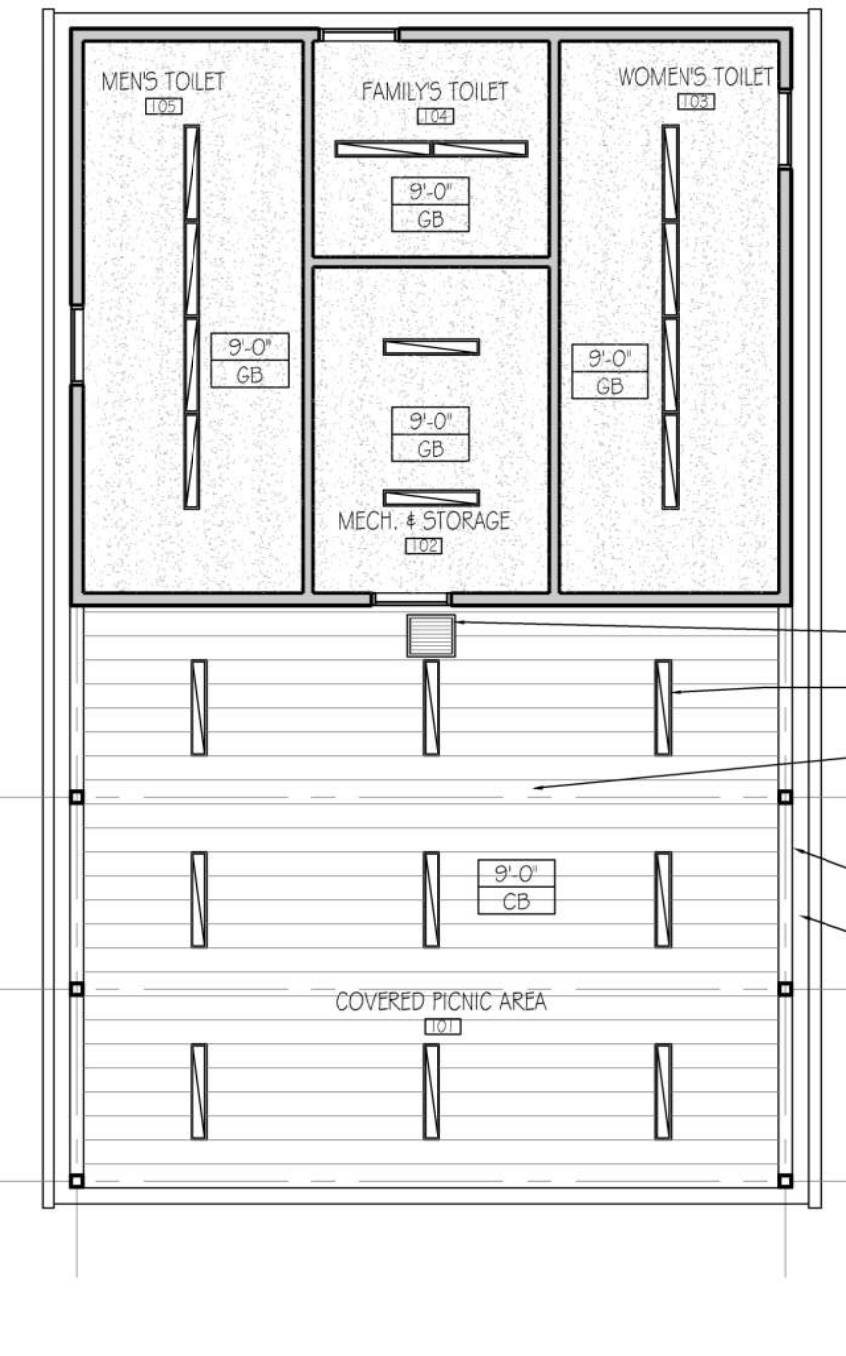


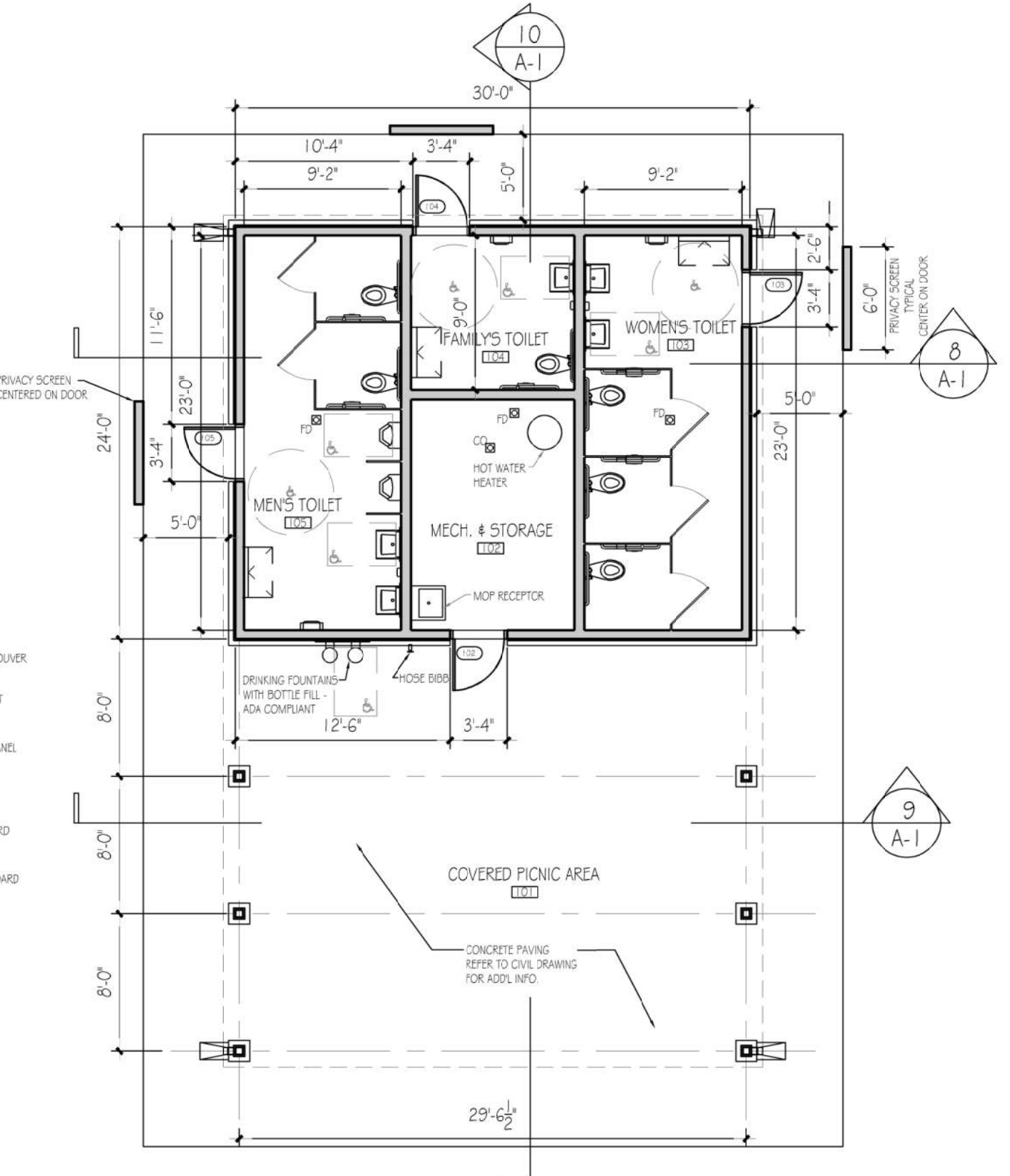
| CEILING LEGEND | |
|----------------|-------------------------------|
| | HEIGHT ABOVE FINISHED FLOOR |
| | CEILING TYPE |
| | GYPSUM BOARD CEILING/SOFFIT |
| | CEMENT BOARD SOFFIT PANELS |
| | SURFACE MOUNTED LIGHT FIXTURE |



3 ROOF PLAN
1/8" = 1'-0"



2 REFLECTED CEILING PLAN
1/8" = 1'-0"



1 FLOOR PLAN
1/8" = 1'-0"

DEMOLITION NOTES

- COMPLETELY REMOVE EXISTING BUILDING INCLUDING ALL INTERIOR CONTENT.
- REMOVE EXISTING CONCRETE SLAB IN IT ENTIRETY, INCLUDING ALL ABANDONED UNDER SLAB UTILITIES. REFER TO MEP DRAWINGS FOR ADDITIONAL INFO.
- EXISTING CONCRETE FOOTING AND FOUNDATION WALL TO REMAIN. CONTRACTOR TO PROTECT THEM AGAINST DAMAGE, PATCH AND REPAIR DAMAGES.
- REMOVE EXISTING ASPHALT PAVING. SEE CIVIL DRAWINGS FOR ADDITIONAL INFO.

EXTERIOR WALL ASSEMBLY

- EXTERIOR WALL
- 5/8" GYPSUM WALL BOARD
- 2x4 WOOD STUDS FRAMING AT 16" O.C.
- 1/2" BATT INSULATION
- 5/8" EXT. GRADE PLYWOOD
- WEATHER BARRIER
- FIBER-CEMENT LAP SIDING / STONE VENEER BASE

INTERIOR WALL ASSEMBLY

- INTERIOR WALL
- 5/8" GYPSUM WALL BOARD BOTH SIDES OF WALL
- CERAMIC TILE WALL FINISHES IN ALL TOILET ROOMS
- PAINTED GYPSUM BOARD IN MECH. / STORAGE ROOM
- 2x4 WOOD STUDS FRAMING AT 16" O.C.

TYPICAL ROOF ASSEMBLY

- ROOF ASSEMBLY
- WOOD ROOF TRUSSES AT 24" O.C.
- 3/4" EXTERIOR GRADE PLYWOOD SHEATHING
- R-19 BATT INSULATION (AT BOTTOM OF TRUSSES)
- SELF-ADHERING ICE AND WATER SHIELD
- ROOF UNDERLAYMENT
- ASPHALT SHINGLES

GENERAL ROOFING NOTES

- ALL WOOD BLOCKING AND PLYWOOD SHEATHING SHALL BE EXTERIOR GRADE, UNLESS OTHERWISE NOTED. ALL PLYWOOD SHEATHING SHALL BE A MINIMUM OF 3/4" THICK.
- MAINTAIN CONSTANT ROOF EDGE ELEVATIONS ACROSS THE SAME HORIZONTAL PLANE.
- THE CONTRACTOR SHALL COORDINATE LOCATIONS OF GUTTERS AND DOWNSPOUT LEADERS WITH WINDOW LOCATIONS AND OTHER BUILDING FEATURES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
- WHETHER INDICATED OR NOT ON THE DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL ROOFTOP EQUIPMENT AND PENETRATIONS PER THE DETAILS AND/OR ROOFING MANUFACTURERS REQUIREMENTS, WHICHEVER IS STRICTER.

ROOF LOADING SCHEDULE

| LOAD TYPE | LOAD VALUE |
|-----------------------|------------|
| DEAD LOAD: | |
| ROOFING | 5.0 PSF |
| CEILING | 4.0 PSF |
| MECH. / ELEC. | 2.0 PSF |
| ROOF FRAMING | 3.0 PSF |
| CEILING | 2.0 PSF |
| MECH. / ELEC. | 2.0 PSF |
| LIVE LOAD: | 1.6 O PSF |
| DESIGN LOAD | 30.0 PSF |
| GROUND SNOW LOAD (Pg) | 30.0 PSF |

APPLICABLE CODES (NJ)

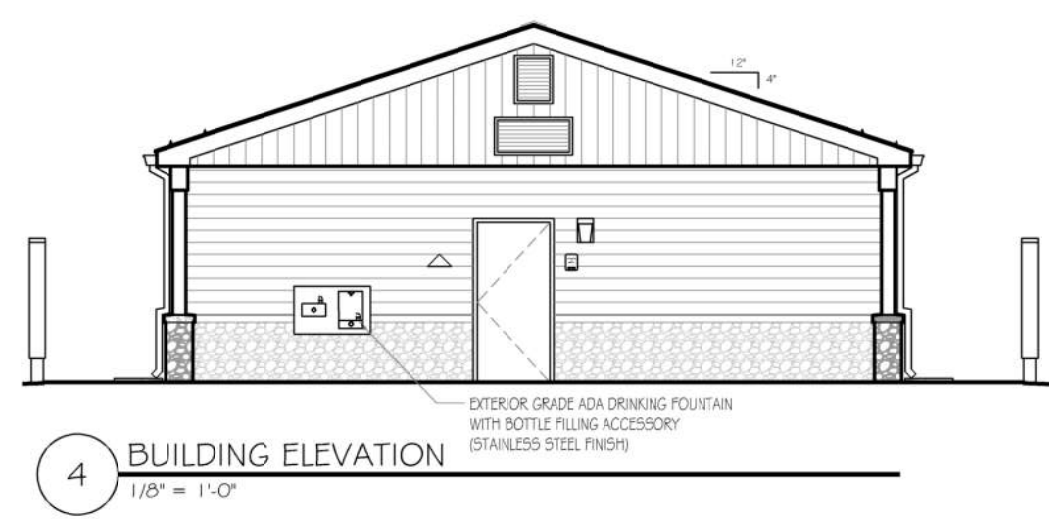
- NJCC: NEW JERSEY UNIFORM CONSTRUCTION CODES
- INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION, 2018
- ICC/ANSI A117.1-2009: ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- NATIONAL ELECTRICAL CODE, 2017
- NATIONAL STANDARD PLUMBING CODE, 2018
- ASHRAE 90.1-2010 (COMMERCE)
- INTERNATIONAL MECHANICAL CODE, 2018
- INTERNATIONAL FUEL GAS CODE, 2018
- NJCC, REHABILITATION SUBCODE, SECTION 5-2.3-6

BUILDING / AREA DESIGNATION

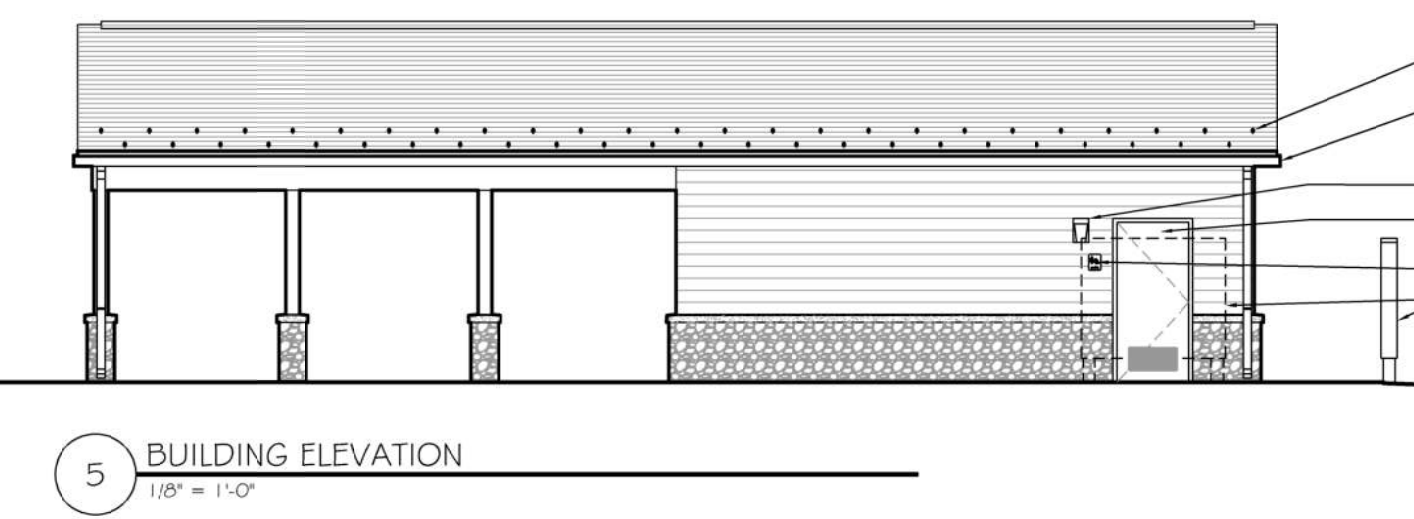
| NEW JERSEY INTERNATIONAL BUILDING CODE (2018) | |
|---|--|
| USE GROUP CLASSIFICATION | BUSINESS |
| MIN. CONSTRUCTION TYPE REQ. | III B |
| CONSTRUCTION TYPE FOR REVIEW | III B NOT SPRINKLERED |
| ALLOWABLE BUILDING HEIGHT (B04.3) | 55'-0" |
| ACTUAL BUILDING HEIGHT | 14'-4" |
| ALLOWABLE NUMBER OF STORIES (B04.3) | 3 |
| ACTUAL NUMBER OF STORIES | 1 |
| ALLOWABLE BUILDING AREA PER FLOOR (S06.2) | 19,000 SF |
| ACTUAL BUILDING AREA PER FLOOR | 1,080 SF (INCLUDED 1/2 OF COVERED PICNIC AREA) |

GENERAL NOTES

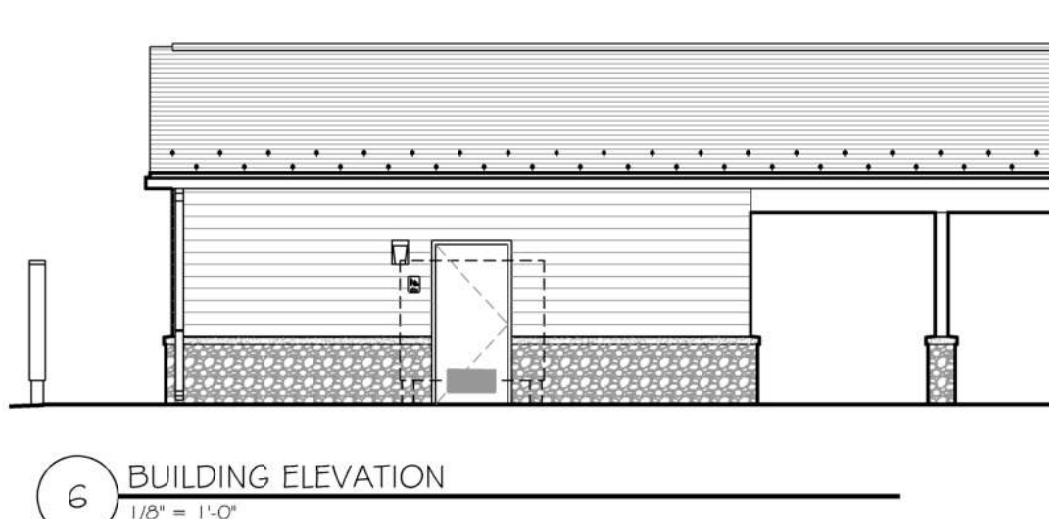
- ELEVATION AT TOP OF FINISHED FLOOR SLAB SHALL BE REFERENCED AS DATUM ELEVATION 0'-0".
- DO NOT SCALE THE DRAWINGS. IF A DIMENSION IS UNCLEAR OR A DISCREPANCY IS FOUND IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO THE COMMENCEMENT OF WORK. WHERE FABRICATION IS REQUIRED, DIMENSIONS SHALL BE VERIFIED PRIOR TO THE PRODUCTION OF SHOP DRAWINGS.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STATUTES, AND REGULATIONS IN PERFORMANCE OF THE WORK.
- DETAILS AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONTROLLED IN A SIMILAR MANNER OR BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION. MODIFICATIONS MAY BE REQUIRED BY THE CONTRACTOR TO ACCOMMODATE FOR MINOR VARIATIONS IN THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND INSTALLATION OF OWNER FURNISHED EQUIPMENT AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS, INCLUDING THE RELOCATION OF EXISTING EQUIPMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES AND COORDINATING WITH NEW WORK. ADVISE ARCHITECT/ENGINEER OF CONFLICTS PRIOR TO COMMENCEMENT OF WORK.
- ALL GRADING SHALL SLOPE AWAY FROM THE BUILDING.
- PRIOR TO POURING OF CONCRETE FOOTINGS, THE CONCRETE REINFORCEMENT STEEL SHALL BE GROUNDING AND BONDED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC SECTION 250-50). A CONDUCTIVE REINFORCING BAR MEASURING AT LEAST 1/2" IN DIAMETER AND A MINIMUM OF 20 FEET IN LENGTH THAT IS ENCASED IN A MINIMUM OF 2" CONCRETE COVER SHALL SUFFICE FOR USE AS AN ELECTRODE.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE PROJECT AND SCHEDULING OF THE WORK CONDUCTED BY OTHER TRADES.
- ALL WALL AND FLOOR PENETRATIONS SHALL BE PATCHED AND SEALED BY THEIR RESPECTIVE TRADES.
- ALL FLOORS SHALL BE SLEAVED AND SEALED IN PLUMBING CHASES.
- PARTITIONS SHALL BE LAID OUT STARTING FROM CONDITIONS WHERE ALIGNMENT WITH EXISTING CONSTRUCTION IS SHOWN. UNLESS OTHERWISE NOTED, DIMENSIONS ARE TAKEN TO THE FACE OF WALLS/PARTITIONS.
- REFER TO ROOM FINISH LEGEND AND PROJECT SPECIFICATIONS FOR FINISH REQUIREMENTS.



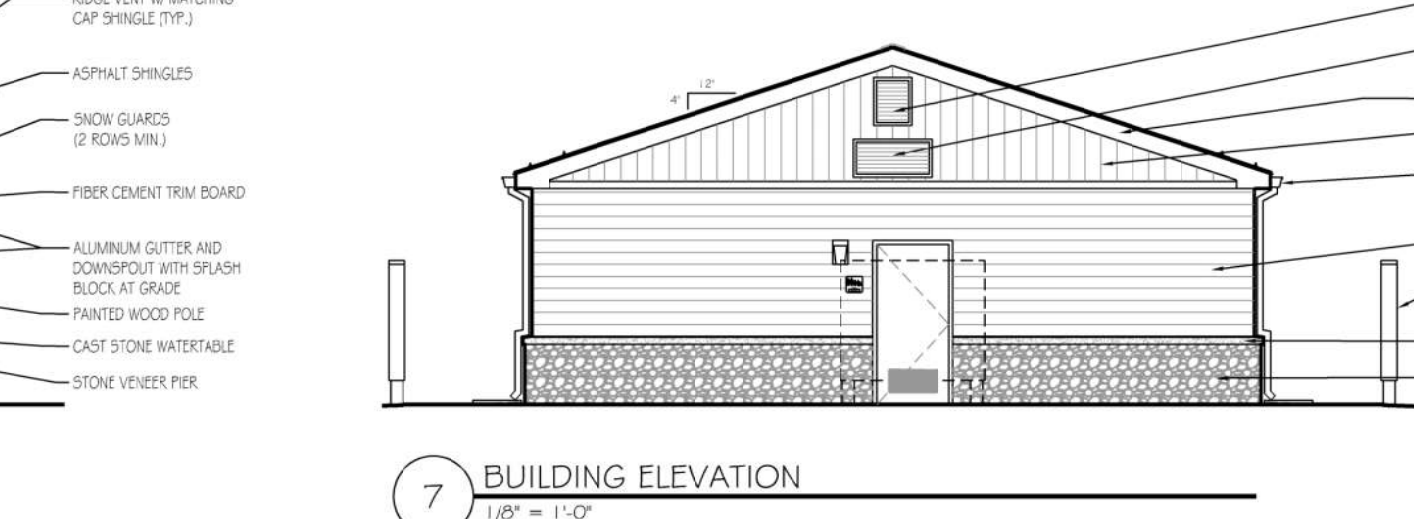
4 BUILDING ELEVATION
1/8" = 1'-0"



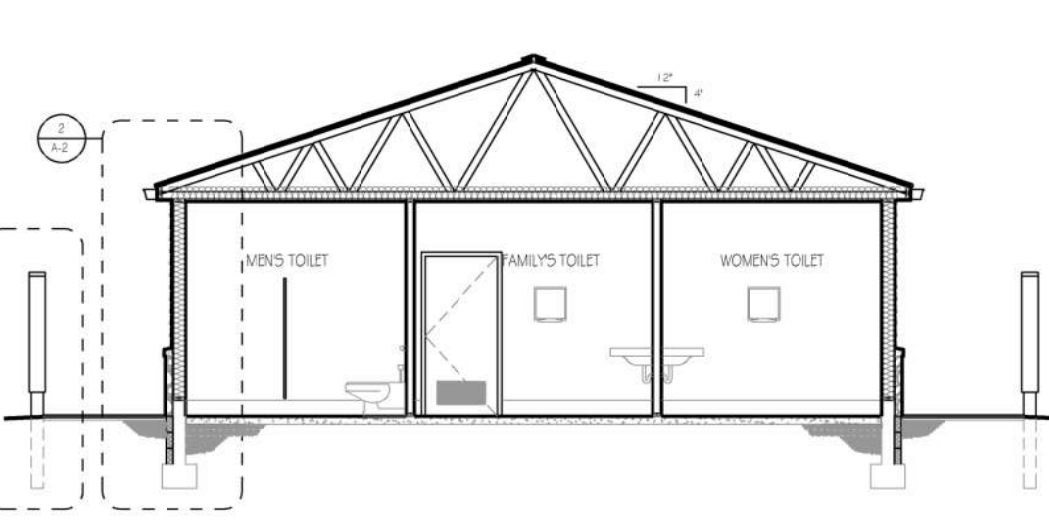
5 BUILDING ELEVATION
1/8" = 1'-0"



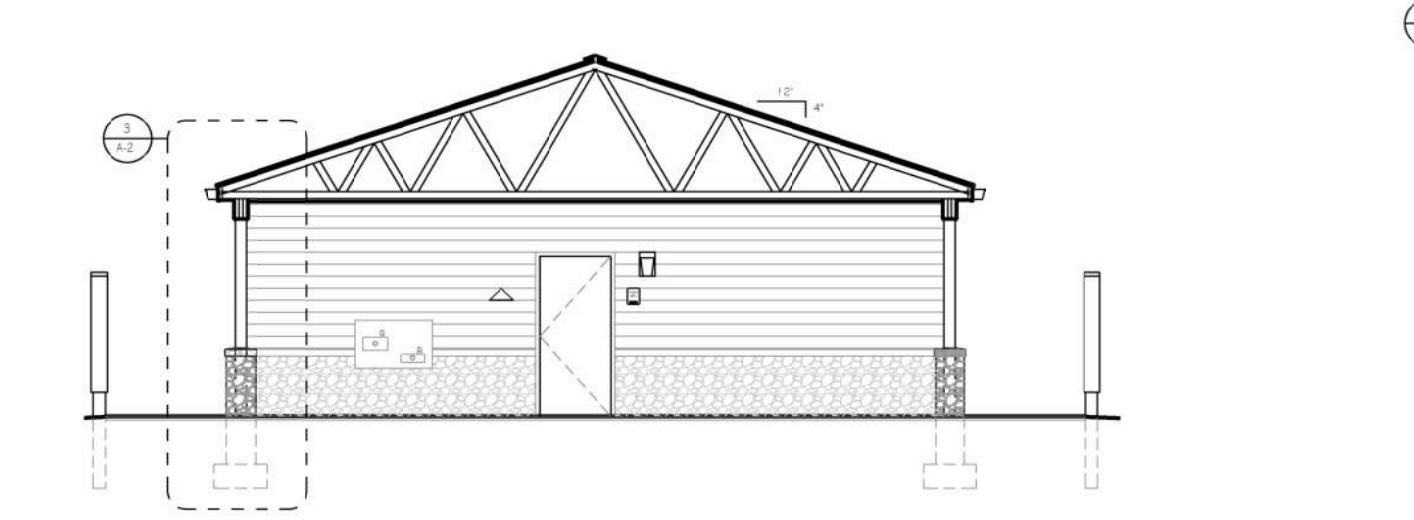
6 BUILDING ELEVATION
1/8" = 1'-0"



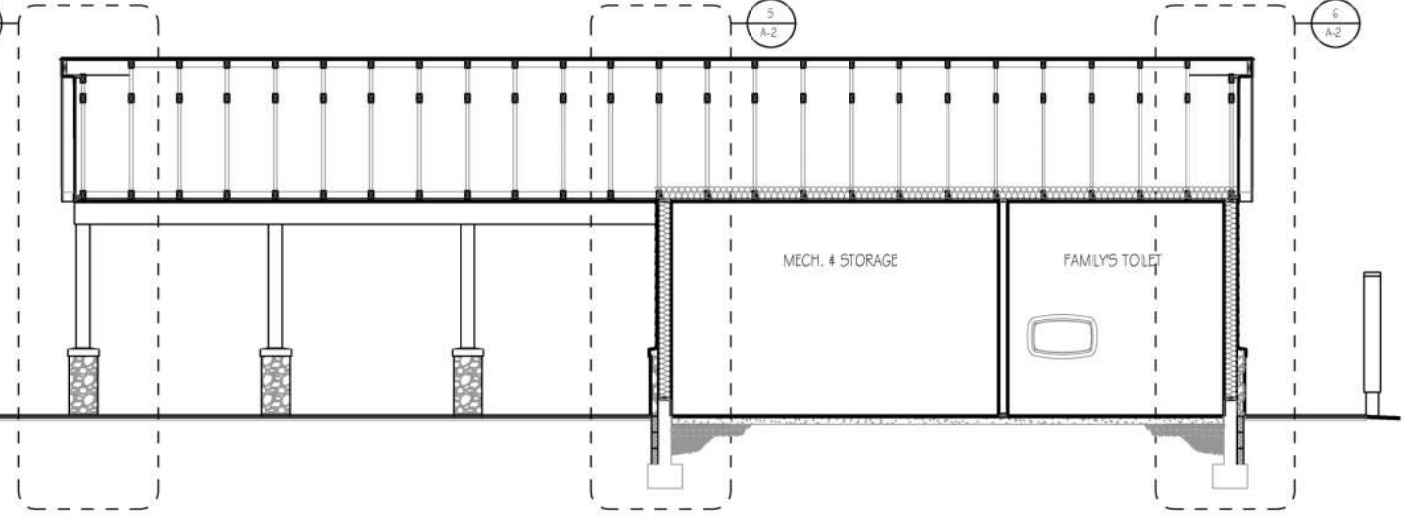
7 BUILDING ELEVATION
1/8" = 1'-0"



8 BUILDING SECTION
1/8" = 1'-0"



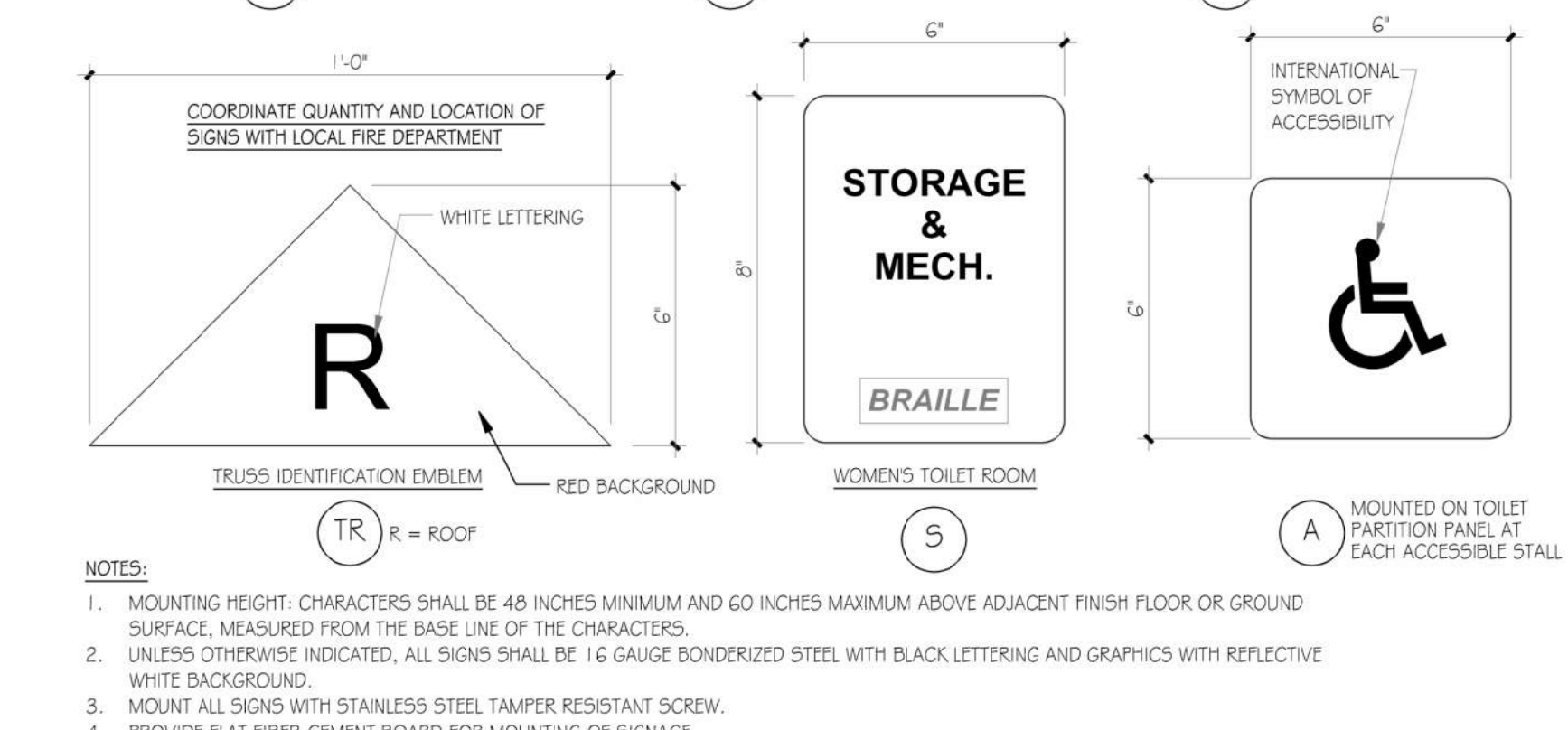
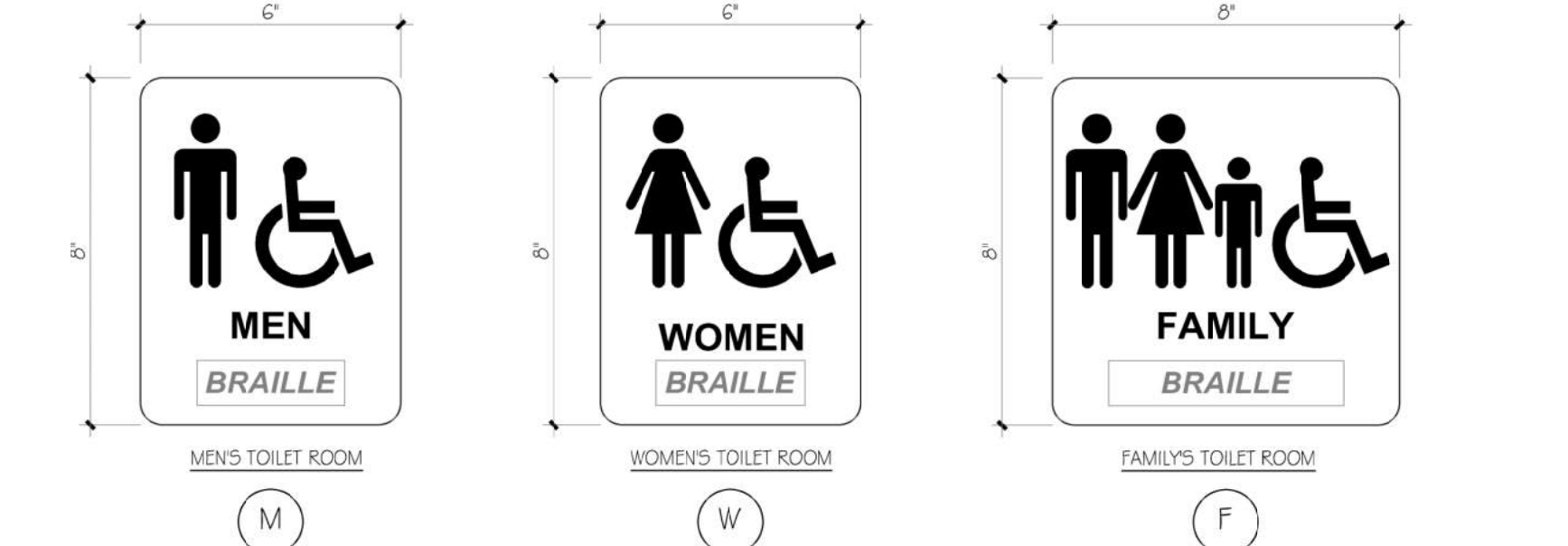
9 BUILDING SECTION
1/8" = 1'-0"



10 BUILDING SECTION
1/8" = 1'-0"

INTERIOR FINISH SCHEDULE

| TOILET ROOMS | |
|-----------------|------------------------------------|
| FLOOR: | RESINOUS FLOORING AND BASE |
| WALLS: | CERAMIC TILES FULL HEIGHT OF WALLS |
| CEILING: | EPDM PAINT |
| MECH. / STORAGE | |
| FLOOR: | SEALED CONCRETE |
| WALLS: | EPDM PAINT |
| CEILING: | EPDM PAINT |



11 SIGNAGE TYPES
3/8" = 1'-0"

DOOR AND FRAME SCHEDULE

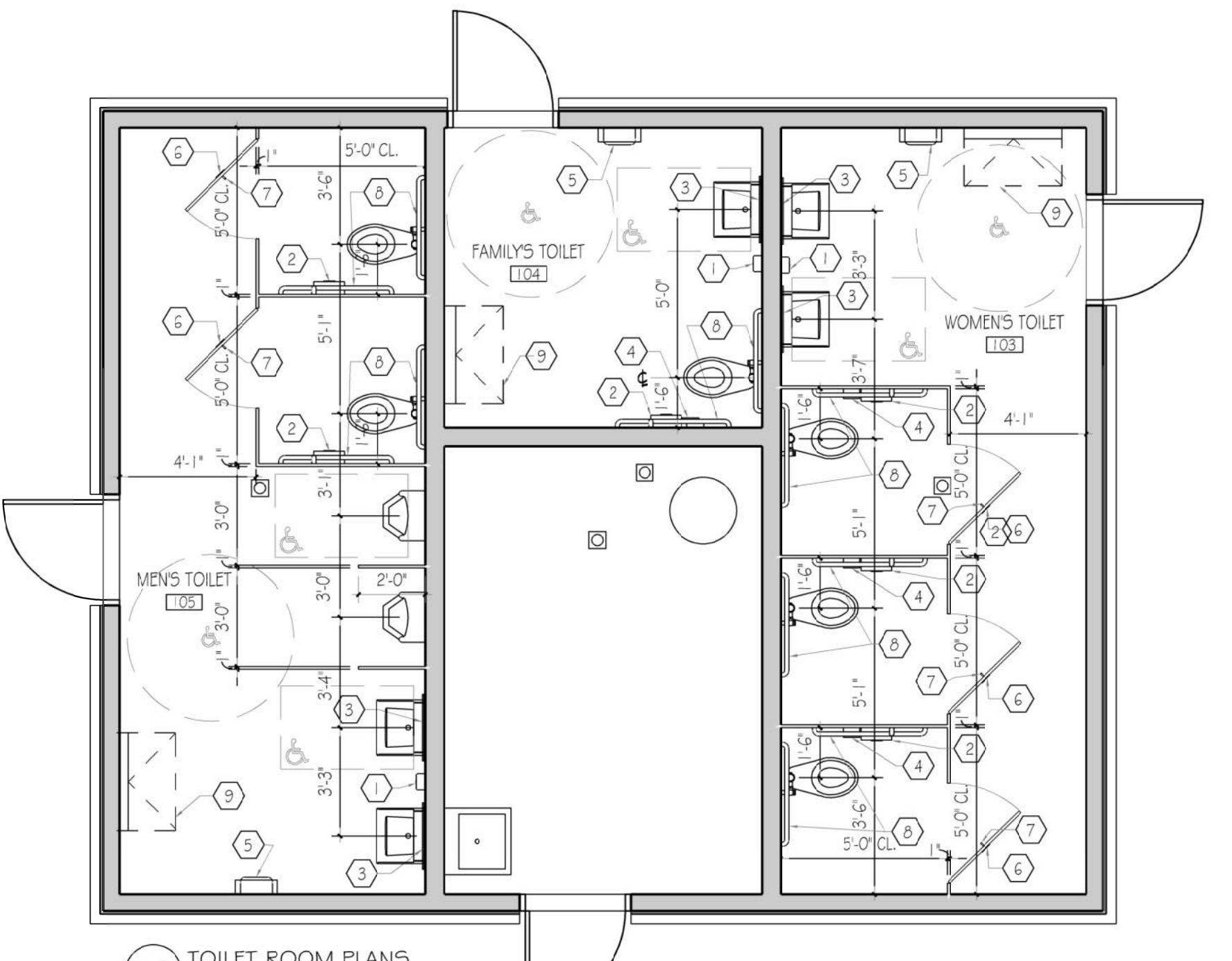
| ID | LOCATION | WIDTH | HEIGHT | DOOR | FIN. | MAT. | TYPE | FRAME | STOP | HARDWARE SET | REMARKS |
|-----|-----------------|-------|--------|-------|------|------|------|-------|----------|--------------|---------------|
| 102 | MECH. & STORAGE | 3'-0" | 7'-0" | 1.5AF | FRF | F.1 | ALU | ALUM | OVERHEAD | 1 | |
| 104 | WOMEN'S TOILET | 3'-0" | 7'-0" | 1.3AF | FRF | F.2 | ALU | ALUM | OVERHEAD | 2 | MAGNETIC LOCK |
| 105 | FAMILY'S TOILET | 3'-0" | 7'-0" | 1.3AF | FRF | F.2 | ALU | ALUM | OVERHEAD | 2 | MAGNETIC LOCK |
| 106 | MEN'S TOILET | 3'-0" | 7'-0" | 1.3AF | FRF | F.2 | ALU | ALUM | OVERHEAD | 2 | MAGNETIC LOCK |

DOOR AND FRAME NOTES

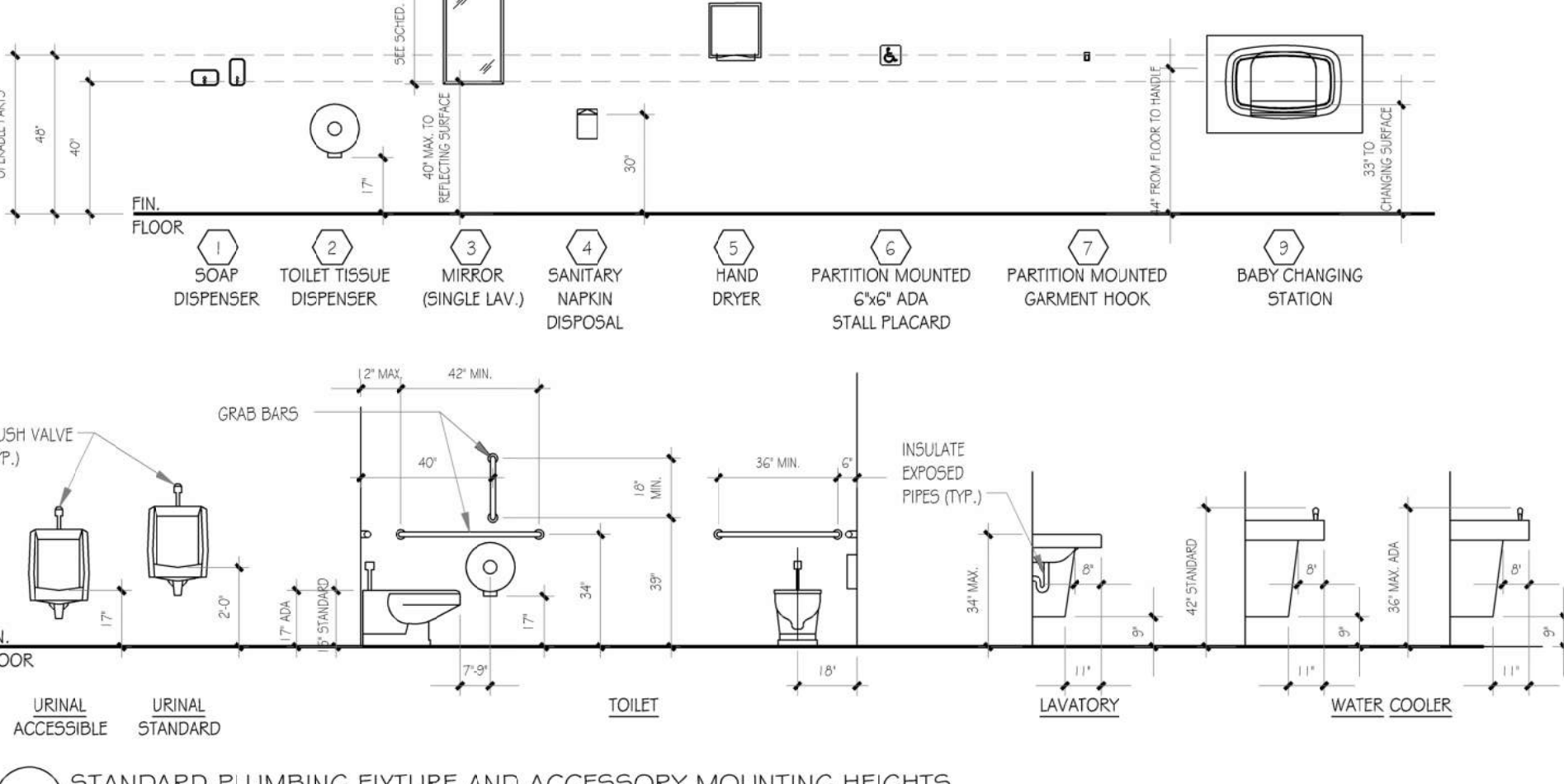
- OPENING FORCE OF INTERIOR NON-RATED DOORS SHALL BE NO GREATER THAN 5 LBS.
- PROVIDE COMPATIBLE FINISHING MATERIALS BETWEEN DISSIMILAR MATERIALS SUCH AS STEEL TO ALUMINUM.
- SHIM ASSEMBLIES AS REQUIRED FOR PLUMB AND LEVEL. PROVIDE SEALANT AND BACKER RODS AT ALL JOINTS BETWEEN DOOR FRAMES AND OTHER SUBSTRADING CONSTRUCTION MATERIALS.
- ALUMINUM FRAMES SHALL NOT BE IN DIRECT CONTACT WITH DISSIMILAR BUILDING MATERIALS.
- THE MINIMUM LATCH SIDE CLEARANCE BETWEEN THE EDGE OF DOOR AND ADJACENT WALL OR OBSTRUCTION ON FULL-SIDE SHALL BE 1/4" MINIMUM.
- THE MINIMUM LATCH SIDE CLEARANCE BETWEEN THE EDGE OF DOOR AND ADJACENT WALL OR OBSTRUCTION ON FULL-SIDE SHALL BE 1/2" MINIMUM.
- DO NOT APPLY WALL BASE TO HOLLOW METAL OR ALUMINUM FRAMES, UNLESS OTHERWISE NOTED.
- MAGNETIC LOCK TO BE PROVIDED WITH KEY SWITCH OR CONNECTED TO REMOTE ACCESS CONTROL SYSTEM BY OWNER.

HARDWARE SETS

| SET 1 | SET 2 | SET 3 |
|--|--|--|
| CONTINUOUS HINGE MAGNETIC LOCK CORE DOOR CLOSER OVERHEAD DOOR STOP KICK PLATE THRESHOLD SWEEP | CFM HD 1 US202 SA US15 SA US15 SA US202 RD US202 RD US202 RD US202 RD US202 RD US202 RD | CONTINUOUS HINGE MAGNETIC LOCK REQUIRED TO EXT. FRYNYR DOOR CLOSER OVERHEAD DOOR STOP KICK PLATE THRESHOLD SWEEP (W/ DRIP EDGE) REMOTE ACCESS CONTROL SYSTEM BY OWNER |



12 TOILET ROOM PLANS
1/4" = 1'-0"



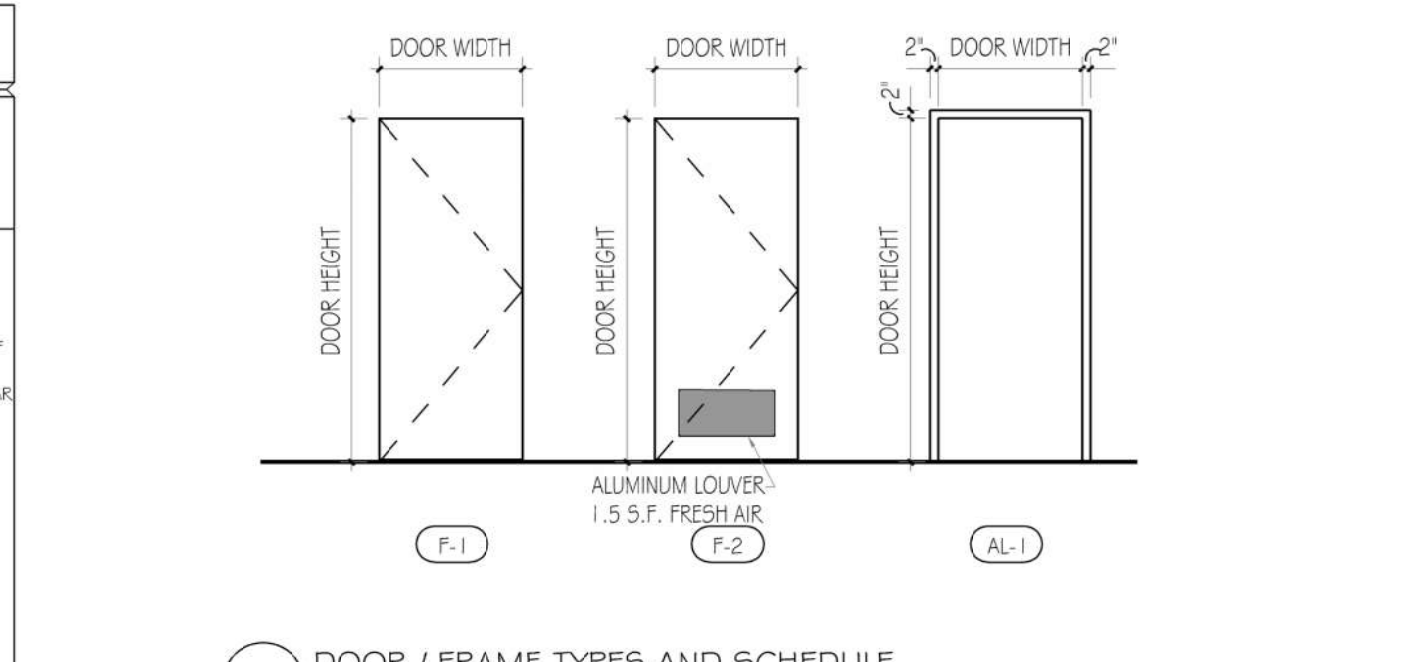
13 STANDARD PLUMBING FIXTURE AND ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"

TOILET ACCESSORY LEGEND

| MARK | DESCRIPTION | MANUFACTURER | MODEL NUMBER | REMARKS |
|------|-----------------------------|--------------|------------------|---------|
| 1 | SOAP DISPENSER | BOBRICK | S-2111 DR-B-2112 | |
| 2 | TOILET TISSUE DISPENSER | BOBRICK | S-2890 | |
| 3 | MIRROR (SINGLE LAVATORY) | BOBRICK | S-1554 2436 | |
| 4 | SANITARY NAPKIN DISPOSAL | BOBRICK | S-270 | |
| 5 | HAND DRYER | BOBRICK | S-7125 | |
| 6 | ACCESSIBILITY SIGNAGE | | | |
| 7 | GARMENT HOOK | | | |
| 8 | GRAB BAR SET (WATER CLOSET) | BOBRICK | S-5506 | |
| 9 | DIAPER CHANGING STATION | KOHLER | K8000-0195 | |

ACCESSIBILITY DESIGN STANDARDS

| INTERNATIONAL STANDARDS | |
|-------------------------|--|
| ANSI A117.1-2009 | ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES |
| NJCC | NEW JERSEY UNIFORM CONSTRUCTION CODES |
| ICC/ANSI A117.1-2009 | ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES |



14 DOOR / FRAME TYPES AND SCHEDULE
1/4" = 1'-0"

CERTIFICATE:

spiezie
ARCHITECTURAL GROUP
1395 YARDVILLE HAMILTON SQUARE ROAD
SUITE 2A
HAMILTON, NEW JERSEY 08611
Phone: 866.974.7666 Fax: 609.394.2274

SEAL:

SIGNATURE:
THOMAS S. FERRARO
SCOTT E. JOHNE
STYVEN L. KANE
STYVEN G. SEID
SPEIZIE ARCHITECTURAL GROUP, INC.

CONSULTANTS:

PROJECT:
PICNIC SHELTER & RESTROOMS AT CHALLENGE GROVE PARK

FOR CAMDEN COUNTY PARK
CHERRY HILL, NJ

SUBMISSION DATES:
FOR CODE APPROVAL
REVISIONS:

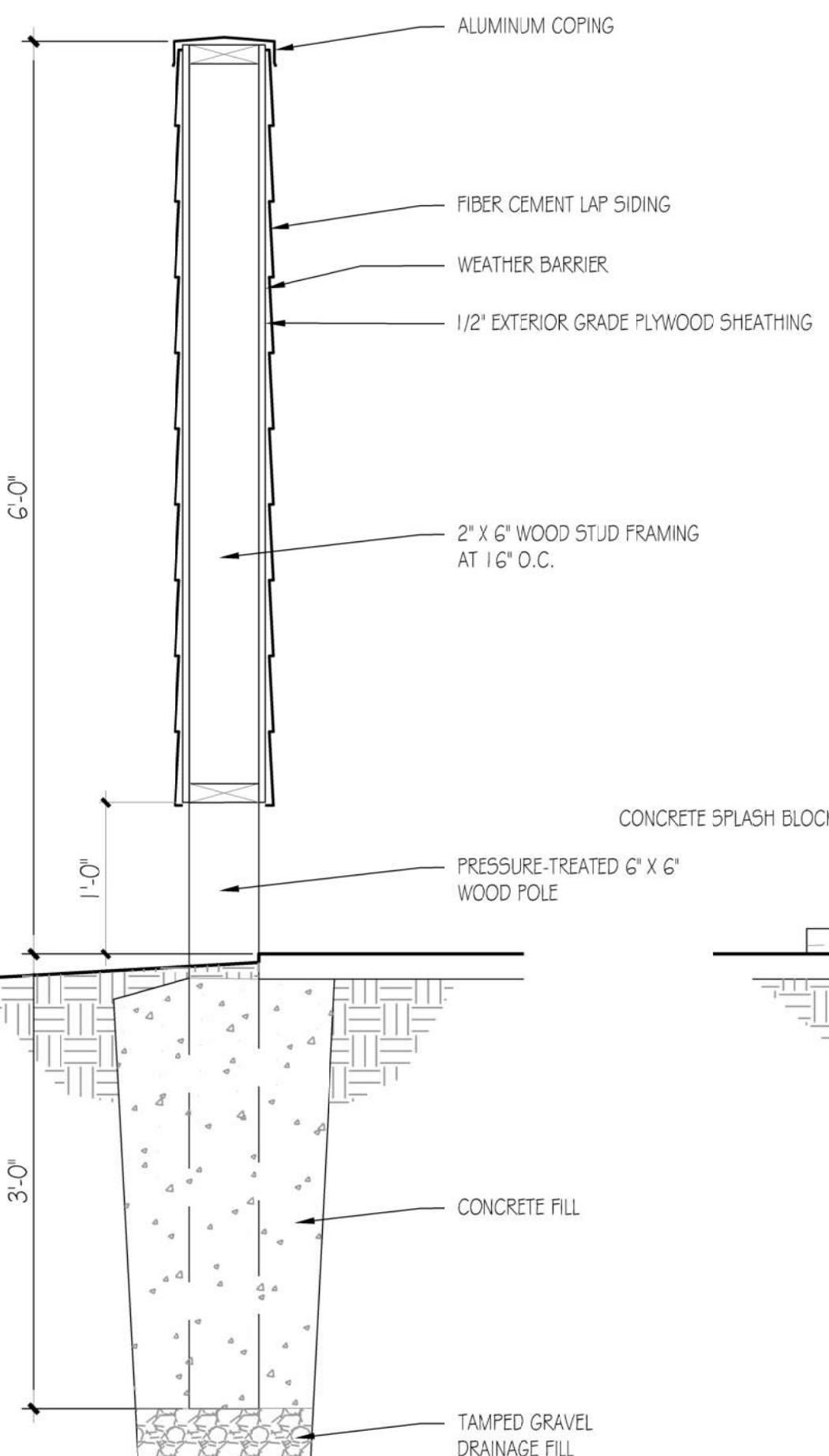
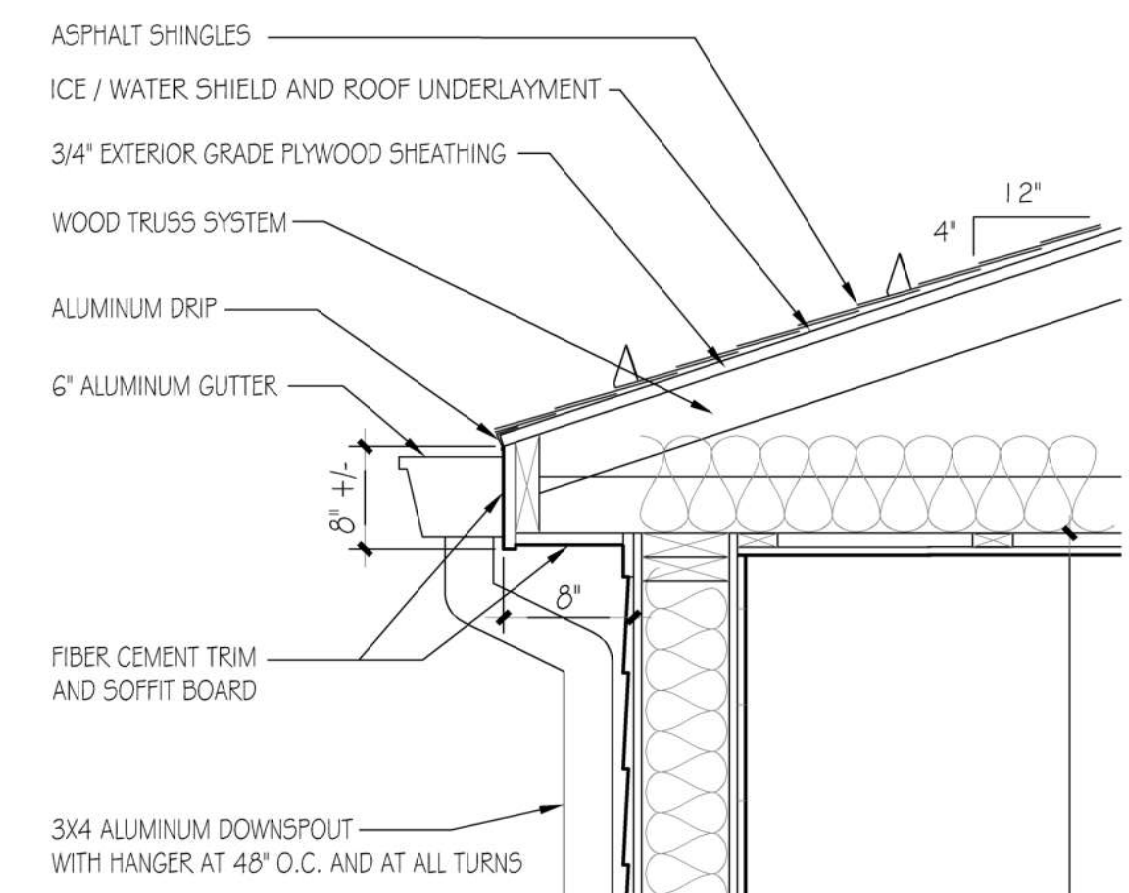
FOR BID JULY 10, 2020
DO NOT SCALE DRAWING

DRAWING TITLE:
FLOOR PLAN, ROOF PLAN, REFLECTED CEILING PLAN, BUILDING ELEVATIONS AND BUILDING SECTIONS

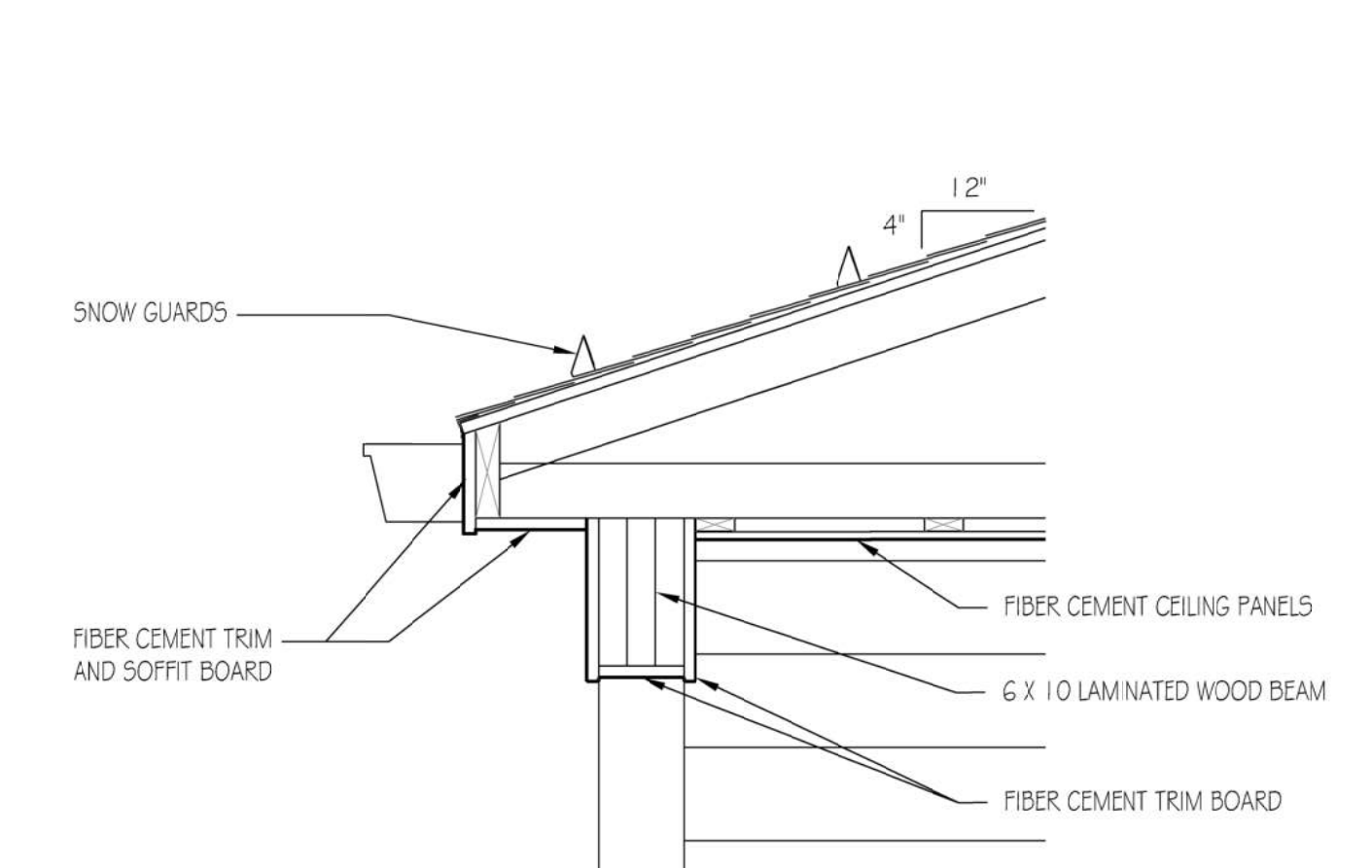
COMMISSION NUMBER:
19M014

DRAWING NUMBER:
A-1

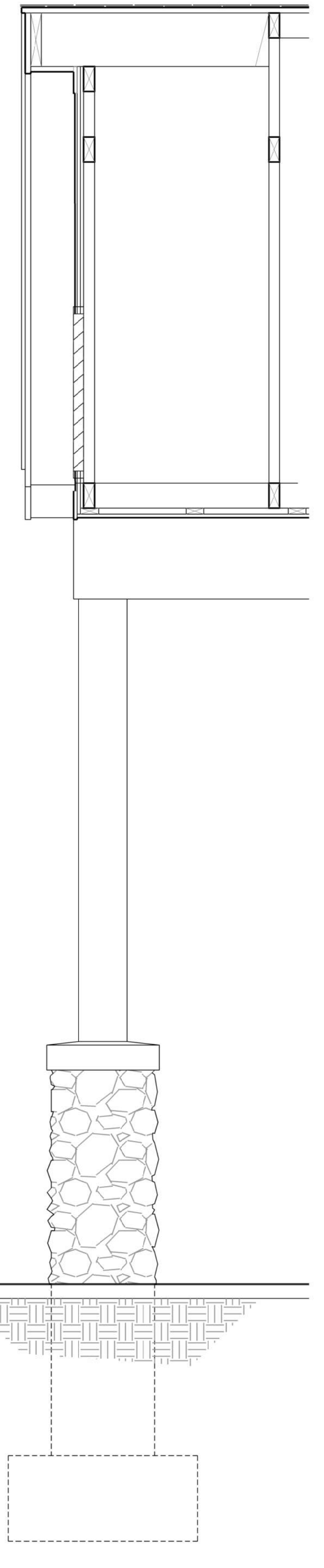
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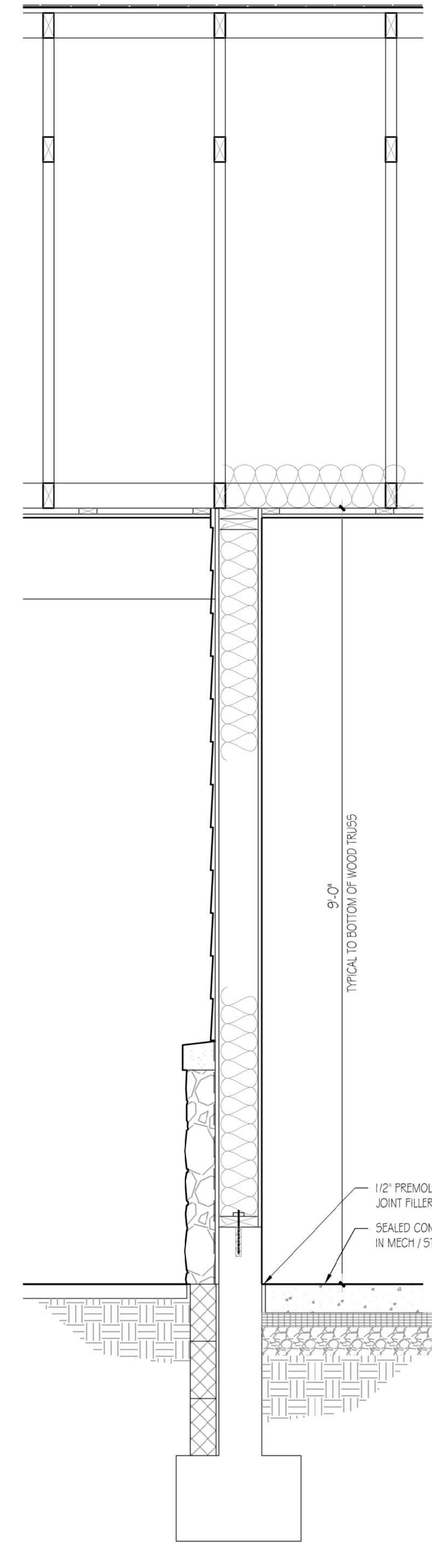
1 WALL SECTION (PRIVACY SCREEN)
1" = 1'-0"



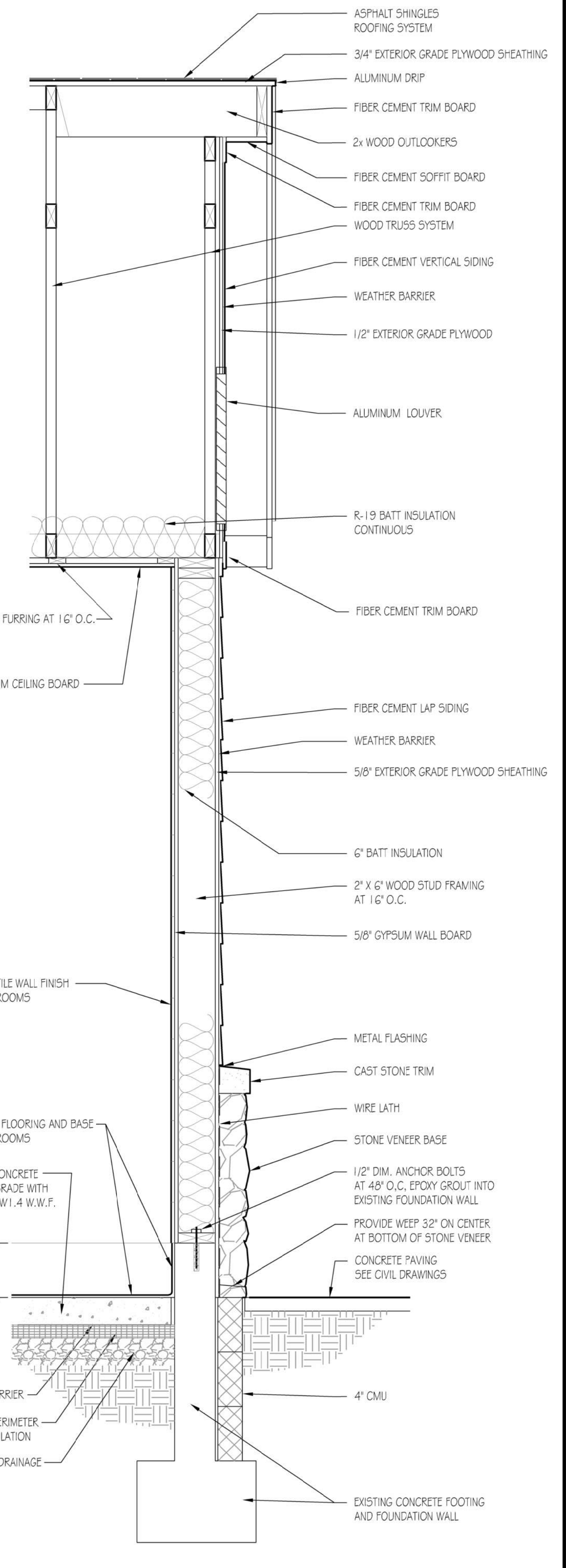
3 WALL SECTION
1" = 1'-0"



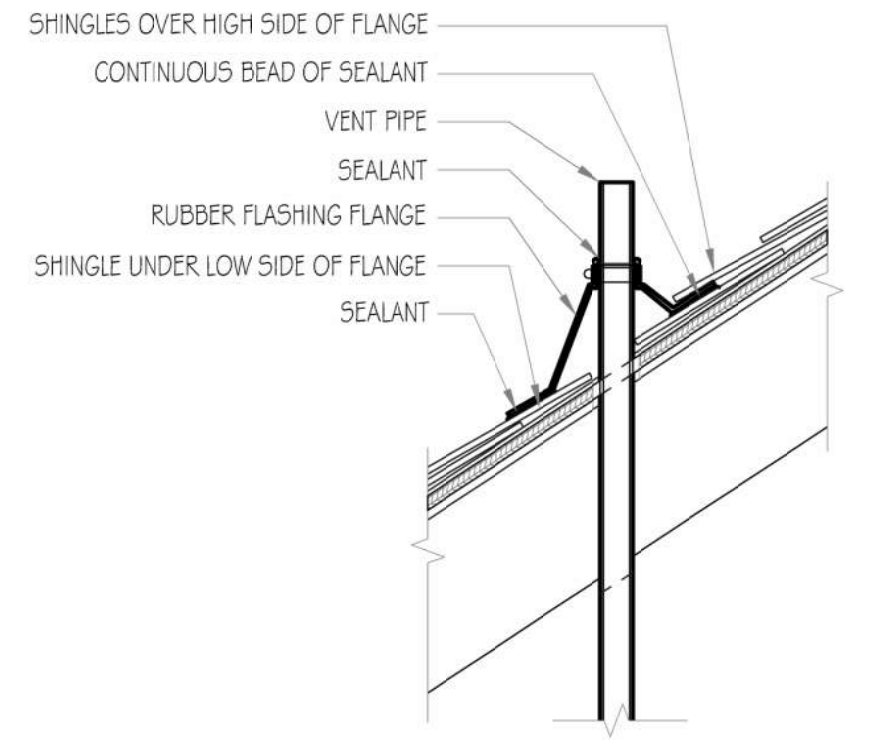
4 WALL SECTION
1" = 1'-0"



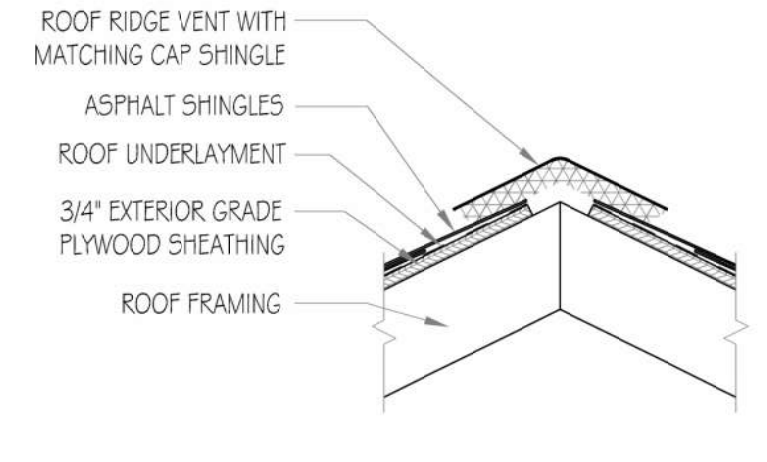
5 WALL SECTION
1" = 1'-0"



6 WALL SECTION
1" = 1'-0"



7 PIPE VENT DETAIL
1" = 1'-0"



8 RIDGE VENT DETAIL
1" = 1'-0"

CERTIFICATE:



ARCHITECTURAL GROUP

1395 YARVILLE HAMILTON SQUARE ROAD, SUITE 2A
HAMILTON, NEW JERSEY 08691
Phone: 609.974.7666 Fax: 609.394.2274

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SIGNATURE:
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SCOTT E. ZOWIE
STEVEN USSE
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SPIEZE ARCHITECTURAL GROUP, INC.

CONSULTANTS:

PROJECT:
PICNIC SHELTER #
RESTROOMS
AT
CHALLENGE GROVE PARK

FOR
CAMDEN COUNTY PARK
CHERRY HILL, NJ

SUBMISSION DATES:
FOR CODE APPROVAL _____
REVISIONS:

FOR BID JULY 10, 2020
DO NOT SCALE DRAWING

DRAWING TITLE:
WALL SECTIONS

COMMISSION NUMBER:
19M014

DRAWING NUMBER:
A-2

THIS DRAWING IS FORMATTED TO BE PRINTED AT 300%.

PROJECT GENERAL NOTES

- 1. MOTOR CONTROLLERS, MOTOR STARTERS & DISCONNECTS SHALL BE FURNISHED BY DIVISION 23 AND INSTALLED UNDER DIVISION 26.
2. POWER WIRING TO MECHANICAL EQUIPMENT, MOTOR CONTROLLERS AND CONTROL PANELS SHALL BE PROVIDED UNDER DIVISION 26.
3. HVAC CONTROL WIRING SHALL BE PROVIDED UNDER DIVISION 23.
4. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH LOCKABLE HANDLE. DISCONNECTS FOR ALL ELECTRICALLY DRIVEN HVAC EQUIPMENT SHALL BE FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
5. STARTERS SHALL BE NEMA COMBINATION MAGNETIC MOTOR STARTERS SIZED PER MOTOR HORSE POWER. COORDINATE MOTOR STARTER TYPE AND FEATURES WITH THE REQUIREMENTS OF THE MECHANICAL EQUIPMENT AND THE CONTROL SYSTEM. PROVIDE OVERLOAD, UNDER VOLTAGE AND PHASE LOSS PROTECTION IN ALL STARTERS. STARTERS FOR MOTORS 50 HORSE POWER AND LARGER SHALL BE REDUCED VOLTAGE TYPE.
6. DUCTWORK AND PIPING LAYOUTS ARE SCHEMATIC DIAGRAMS AND ARE INTENDED TO SHOW GENERAL ARRANGEMENT, SIZE AND CAPACITY AND DO NOT INDICATE WHICH PIPE OR DUCT IS ABOVE OR BELOW THE OTHER. ALL OFFSETS ARE NOT NECESSARILY SHOWN, CONTRACTOR SHALL ARRANGE AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS, AND FITTINGS TO AVOID CONFLICT WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AND STRUCTURAL AND ARCHITECTURAL ELEMENTS WITHOUT ADDITIONAL COST TO THE OWNER. IF AREAS OF CONFLICT ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED AND CONTRACTORS RECOMMENDATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE WORK HAS BEGUN.
7. ENTIRE INSTALLATION SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND OTHER AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND SHALL ARRANGE ALL REQUIRED INSPECTIONS.
9. PROPER FIRE PROTECTION MEASURES, SATISFACTORY TO THE LOCAL FIRE DEPARTMENT SHALL BE TAKEN WHEN WELDING OR CUTTING WITH TORCHES OR ELECTRIC ARC.
10. PROVIDE FLEXIBLE CONNECTIONS ON ALL ROTATING EQUIPMENT.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT, AND DUCTWORK. SUSPEND FROM SLAB, STEEL, WALL, OR TRUSS WORK.
12. BALANCE AND CERTIFY ALL AIR AND WATER SYSTEMS AS PER SPECIFICATIONS. COMPLY WITH REQUIREMENTS OF COMMISSIONING AUTHORITY.
13. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES AND THE EXISTING FIELD CONDITIONS.
14. PROVIDE SHUT OFF VALVES AT ALL BRANCH PIPING CONNECTIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF SLAB REQUIRED AS A RESULT OF HIS WORK.
16. MINIMUM SIZE OF ALL CONDENSATE DRAIN PIPING SHALL BE 3/4", MINIMUM SLOPE SHALL BE 1/8" PER FOOT.
17. ALL MECHANICAL CONTROLS (THERMOSTATS, ETC.) SHALL BE FURNISHED AND INSTALLED AS PER BARRIER-FREE SUB-CODE OF THE LOCAL GOVERNING CODE.
18. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF SOUND TO THE BUILDING STRUCTURE. VIBRATION ISOLATORS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND ON ACTUAL WEIGHT DISTRIBUTION OF THE EQUIPMENT FURNISHED. DEFLECTIONS SHALL BE AS NOTED ON THE EQUIPMENT SHOP DRAWING SUBMITTALS.
19. ALL CONDENSATE DRAIN LINES SHALL COMPLY WITH NSPC.
20. ALL PENETRATIONS OF FLOORS (WHETHER OR NOT FIRE RESISTANCE RATED) AND ALL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRE STOPPING). EACH THROUGH-PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM. REFER TO SECTION OF THE SPECIFICATION FOR ADDITIONAL INFORMATION.
21. ALL REMOVED EQUIPMENT, MATERIAL AND DEBRIS SHALL BE LEGALLY DISPOSED OF BY THIS CONTRACTOR.
22. CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL DEVICES WILL BE INSTALLED IN A LOCATION WHICH AFFORDS ACCESSIBILITY FOR MAINTENANCE AND REPAIR. COORDINATE INSTALLATION AMONG ALL TRADES TO AVOID INTERFERENCE, AND LOCATE EQUIPMENT TO PROVIDE CLEARANCE OR EXCEED THOSE RECOMMENDED BY THE MANUFACTURER.
23. INSTALL ALL DIELECTRIC UNIONS IN A MANNER WHICH MAKE THEM READILY ACCESSIBLE FOR FUTURE REPAIR OR REPLACEMENT.
24. CONTRACTOR SHALL DRAIN AND REFILL ALL PIPING AS REQUIRED.
25. FURNISH LOCAL DISCONNECT SWITCHES FOR ALL ELECTRICALLY DRIVEN HVAC EQUIPMENT. DISCONNECT SWITCH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
26. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID.
27. ALL INTERIOR PIPING SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE.
28. ALL CONTROL WIRING SHALL BE CONCEALED IN WALLS, ABOVE CEILINGS, ETC. IN FINISHED / OCCUPIED AREAS. WHERE CONTROL WIRING IS EXPOSED, INSTALL WIRING IN CONDUIT.
29. WHERE PIPING CONNECTIONS FOR THE EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FROM THE LINE SIZE, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCERS OR EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
30. ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT.
31. ALL INSULATION PROVIDED FOR THE PROJECT MUST MEET A MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED OF 50 OR LESS, AS TESTED IN ACCORDANCE WITH ASTM, NFPA & U.L. GUIDELINES.
32. ALL EQUIPMENT FOR THIS PROJECT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
33. CONTRACTOR SHALL SUBMIT DIMENSIONED, COORDINATED SHOP DRAWINGS FOR ENGINEERS APPROVAL. DRAWING SHALL INDICATE ALL TRADES, (ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND INFRASTRUCTURE).
34. UNLESS OTHERWISE SPECIFIED, ALL MOTORS 3/4 H.P. AND ABOVE SHALL BE 3 PHASE AND MOTORS UNDER 1/2 H.P. SHALL BE SINGLE PHASE.
35. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF HIS WORK WITH THE GENERAL AND ELECTRICAL CONTRACTORS PRIOR TO SUBMISSION OF BIDS.
36. THE ABBREVIATIONS BMS (BUILDING MANAGEMENT SYSTEM) AND BAS (BUILDING AUTOMATION SYSTEM) ARE USED INTERCHANGEABLY.
37. ALL AIR MOVING DEVICES, INCLUDING NOT LIMITED TO, AIR HANDLING UNITS AND AIR CONDITIONING UNITS MUST COMPLY WITH AMCA STANDARD 210 AND ASHRAE.
38. WALL MOUNTED THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO INSTALLATION.
39. ALL DRAWING SCALES INDICATED IN THE CONTRACT DOCUMENTS SHALL BE VERIFIED AGAINST ACTUAL FIELD CONDITIONS AND DIMENSIONS BY THE CONTRACTOR PRIOR TO BID SUBMISSION.
40. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF HIS WORK WITH THE GENERAL AND ELECTRICAL CONTRACTORS PRIOR TO SUBMISSION OF BIDS.
41. CONTRACTOR SHALL PATCH ALL OPENINGS LEFT BY THE REMOVAL OF PIPING, CONDUIT, DUCTS, ETC. TO MATCH SURROUNDING CONSTRUCTION AND FINISHES.

MECHANICAL SYMBOLS

Table with 2 columns: IDENTIFIER and DESCRIPTION. Includes symbols for heating hot water supply, chilled water supply, condensate drain, refrigerant piping, pressure reducing valve, Y-type strainer, manual air vent, expansion joint, ball valve, gate valve, globe valve, calibrated balancing valve, triple-duty valve, gas cock, pressure regulator, gas piping, sanitary sewer piping, and sanitary vent piping.

* NOTE THAT NOT ALL SYMBOLS APPLY TO THE PROJECT

GENERAL ABBREVIATIONS

Table with 2 columns: IDENTIFIER and DESCRIPTION. Includes abbreviations for AFF (Above Finished Floor), AFG (Above Finished Grade), ATC (Automatic Temperature Controls), BAS (Building Automation System), BFG (Below Finished Grade), BLDG (Building), BMS (Building Management System), CON'S (Connections), CLD (Ceiling), CO (Company), CONTR (Contractor), CTE (Connect to Existing), DN (Down), DMC(S) (Drainings), EC (Electrical Contractor), EM (Emergency Equipment), ETR (Existing to Remain), EWC (Electric Water Cooler), EX (Existing), FLA (Full Load Amps), FS (Flow Switch), GC (General Contractor), HP (Horsepower), MAX (Maximum), MC (Mechanical Contractor), MCA (Minimum Circuit Amps), MEZZ (Mezzanine), MFG (Manufacturer), MH (Mounting Height), MN (Minimum), MOD (Motor Operated Damper), MTD (Mounted), NC (Normally Closed), NIC (Not in Contract), NO (Normally Open), NTS (Not to Scale), OC (On Center), PC (Plumbing Contractor), PSI (Pounds per Square Inch), PVC (Polyvinyl Chloride), R (Existing Equipment to be Removed), RL (Existing Equipment to be Relocated), RLA (Running Load Amps), RPM (Revolutions per Minute), SDO (Duct Smoke Detector), SQ. FT. (Square Feet), TYP (Typical), VSD (Variable Speed Drive).

* NOTE THAT NOT ALL ABBREVIATIONS APPLY TO THE PROJECT *

GENERAL NOTES (APPLY TO ALL DRAWINGS)

- 1. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS ROUTED ON ROOF OR EXPOSED BELOW ROOF BETWEEN AND / OR THROUGH JOISTS.
2. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR POSSIBLE INTERFERENCE WITH HIS WORK AND THE WORK OF OTHERS FROM NEW AND EXISTING CONDITIONS.
3. SIZES SHOWN ON PLANS FOR DUCTWORK ARE CLEAR INSIDE DIMENSIONS, WHEN LINING IS PROVIDED, INCREASE THE SIZE ACCORDINGLY.
4. DUCTWORK LAYOUTS ARE DIAGRAMMATIC AND INTEND TO SHOW A GENERAL ARRANGEMENT, SIZE AND CAPACITY. ALL OFFSETS ARE NOT NECESSARILY SHOWN. CONTRACTOR SHALL ARRANGE AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS, AND FITTINGS TO AVOID CONFLICT WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AND WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.
5. CONTRACTOR IS RESPONSIBLE FOR BALANCING AIR QUANTITIES AS SHOWN ON THE FLOOR PLANS FOR HVAC EQUIPMENT, REGISTERS, GRILLES AND DIFFUSERS. COMPLY WITH REQUIREMENTS OF COMMISSIONING AUTHORITY.
6. WHILE ALL ATTEMPTS AT ACCURACY HAVE BEEN TAKEN, NO GUARANTEE OF AN EXACT REPRESENTATION OR COMPLETENESS IS IMPLIED. RESPONSIBILITY FOR FINAL VERIFICATION FALLS TO THE CONTRACTOR. ANY UNRESOLVED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
7. SEE SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
8. ALL DUCTWORK EXPOSED BELOW ROOF IN SPACE SHALL BE INTERNALLY INSULATED AND PRIMED / PAINTED AS PER ARCHITECT'S COLOR CHOICE WITH SUITABLE ADHERING COMPOUNDS FOR THE SHEETMETAL MATERIAL BEING PAINTED.
9. PIPING INSULATION SHALL BE CONTINUOUS AT HANGER SUPPORTS NOT TO COMPROMISE THE INSULATION VAPOR BARRIER.
10. ALL EXISTING DUCT SYSTEMS (SUPPLY / RETURN / OA DUCTS, GRILLES, ETC.) SHALL BE THOROUGHLY PROFESSIONAL CLEANED.
11. CONTRACTOR SHALL TO PATCH ALL DISTURBED FINISHES WITH MATERIAL AND ASSEMBLIES TO MATCH EXISTING AND / OR NEW CONSTRUCTION AND FINISHES (TYPICAL). COORDINATE WITH ARCHITECT.
12. CONTRACTOR TO PROVIDE A COMPLETE OPERATING HVAC SYSTEM WITH ALL REQUIRED CONTROLS (COMPONENTS/DEVICES, SENSORS, WIRING, TRANSFORMERS, POWER, INTERFACES, PROGRAMMING, ETC.).

HVAC DESIGN CRITERIA

- 1. APPLICABLE CODES AND REFERENCES:
A. INTERNATIONAL BUILDING CODE - 2018
B. ASHRAE / IES STANDARD 90.1 - 2016
C. INTERNATIONAL MECHANICAL CODE - 2018
D. INTERNATIONAL FUEL GAS CODE - 2018
E. NATIONAL STANDARD PLUMBING CODE - 2018
F. UNIFORM CONSTRUCTION CODE OF NEW JERSEY
2. SUMMER OUTDOOR DESIGN CONDITIONS (PER ASHRAE FUNDAMENTALS - 2017):
A. DRY BULB: 94.3 DEG. F.
B. WET BULB: 74.4 DEG. F. *
* ASHRAE 0.4 % COOLING DRY BULB/MEAN WET BULB FOR NEWARK, NEW JERSEY.
3. SUMMER INDOOR DESIGN CONDITIONS:
A. DRY BULB: N/A (NO COOLING PROVIDED)
B. RELATIVE HUMIDITY: N/A (NO COOLING PROVIDED)
4. WINTER OUTDOOR DESIGN CONDITIONS (PER ASHRAE FUNDAMENTALS - 2017):
A. DRY BULB: 12.8 DEG. F. *
*ASHRAE 99.6 % DESIGN DAY DRY BULB FOR NEWARK, NEW JERSEY.
5. WINTER INDOOR DESIGN CONDITIONS:
A. DRY BULB: 60.0 DEG. F.
B. RELATIVE HUMIDITY: N/A

MECHANICAL ABBREVIATIONS

Table with 2 columns: IDENTIFIER and DESCRIPTION. Includes abbreviations for CD (Condensate Drain), CFM (Cubic Feet per Minute), CR (Ceiling Register), CU (Condensing Unit), CW (Cold Water), R/A (Return Air), RAV (Relief Air Vent), RG (Return Grille), RH (Relative Humidity), DN (Down), EXHA (Exhaust Air), RR (Entering Air Temperature), EDB (Entering Dry Bulb), EER (Energy Efficiency Ratio), EG (Exhaust Grille), EH (Electric Heater), ESP (External Static Pressure), EWB (Entering Wet Bulb), EF (Exhaust Fan), FD (Fire Damper with Access Door), FPM (Feet per Minute), G (Gas), GPM (Gallons per Minute), HUM (Humidifier), HX (Heat Exchanger), KEF (Kitchen Exhaust Fan), LAT (Leaving Air Temperature), MAU (Make Up Air Unit), MBH (Thousand BTU per Hour), MOD (Motor Operated Damper), N.C. (Normally Closed), N.O. (Normally Open), O/A (Outside Air), ON (Outside Air Intake), OED (Open Ended Duct), R (Refrigerant), R/A (Return Air), RAV (Relief Air Vent), RG (Return Grille), RH (Relative Humidity), RL (Refrigerant Liquid Line), RR (Return Register), RSU (Refrigerant Suction Line), RTU (Roof Top Unit), S/A (Supply Air), SD (Smoke Damper), SE (Smoke Exhaust), SF (Supply Fan), SR (Supply Register), T (Thermostat), TO (Transfer Grille), TP (Transfer Opening), TR (Top Register), TT (Thermostatic Trap), UH (Unit Heater), UV (Unit Ventilator), VD (Volume Damper), VEF (Ventilation Exhaust Fan), WB (Wet Bulb), WC (Water Column), WG (Water Gauge), WMS (Wire Mesh Screen).

* NOTE THAT NOT ALL ABBREVIATIONS APPLY TO THE PROJECT *

SYMBOL LIST

Table with 2 columns: SYMBOL and DESCRIPTION. Includes symbols for plan or detail tag, section tag, elevation tag, key note symbol, key notes applying to same item, and connect to existing.

CERTIFICATE:



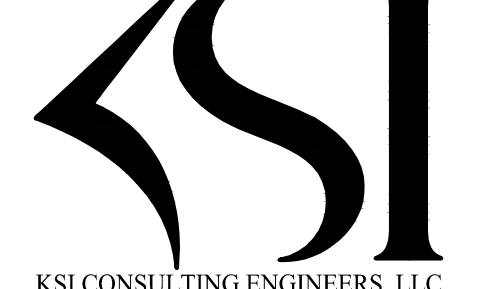
ARCHITECTURAL GROUP

1395 YARDVILLE HAMILTON SQUARE ROAD SUITE 2A HAMILTON, NEW JERSEY 08691 Phone: 866.974.7666 Fax: 609.394.2274

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CONSULTANTS:



KSI CONSULTING ENGINEERS, LLC P.O. BOX 628 FARMINGDALE, NJ 07727 PHONE: 732.938.2666 FAX: 732.938.2521

CERTIFICATE OF AUTHORIZATION NO. 246328124900 PAUL RIFISH, N.J.P.E. LICENSE NUMBER: 4515800

PROJECT:

PICNIC SHELTER & RESTROOMS AT CHALLENGE GROVE PARK

DATE:

2/20/2020

FOR CAMDEN COUNTY PARK CHERRY HILL, NJ

SUBMISSION DATES:

FOR CODE APPROVAL

REVISIONS:

FOR BID JULY 10, 2020

DO NOT SCALE DRAWING

DRAWING TITLE: WALL SECTIONS MECHANICAL GENERAL INFORMATION

COMMISSION NUMBER:

19M014

DRAWING NUMBER:

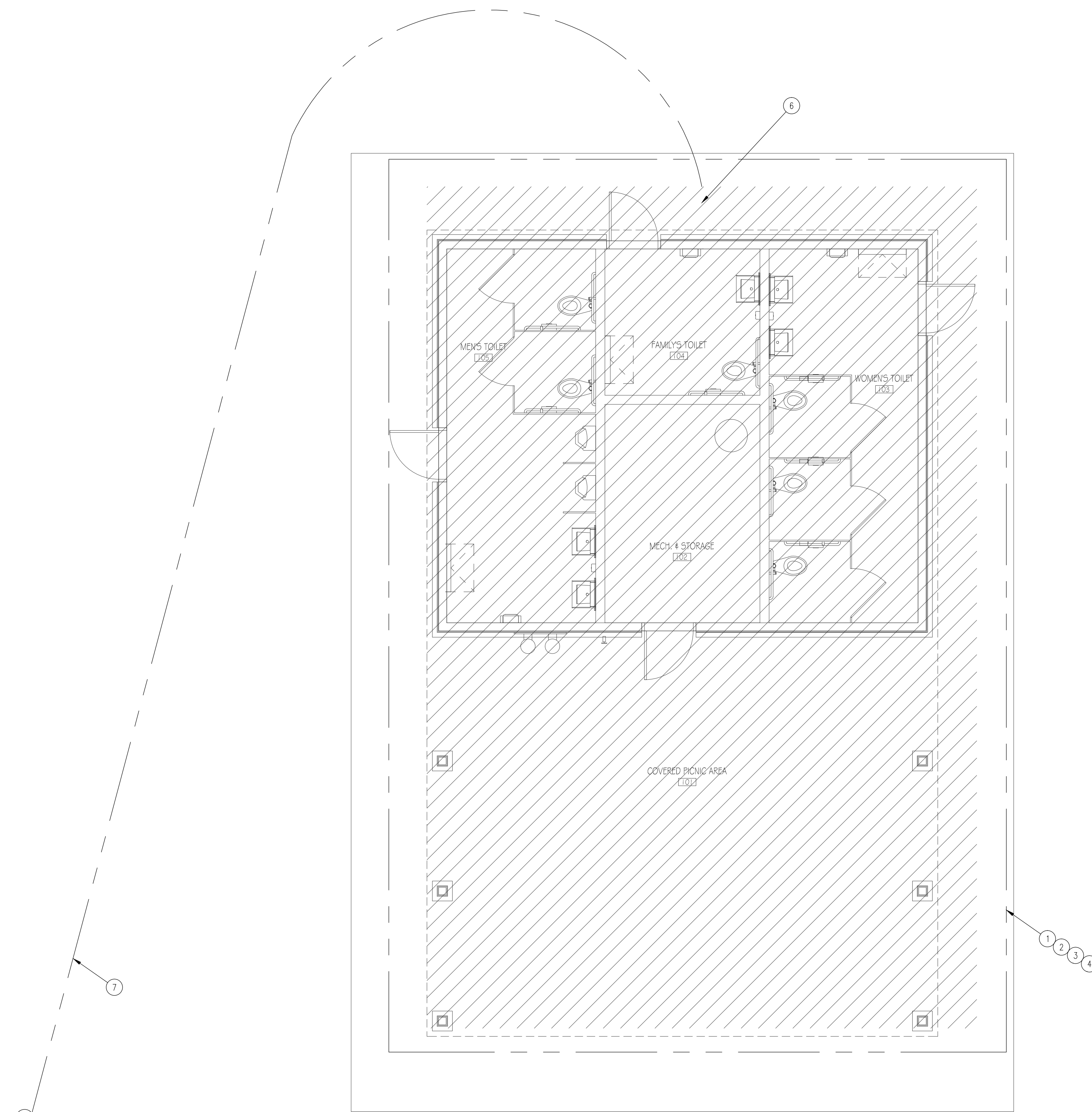
MO.1

MEP DEMOLITION NOTES

1. REMOVE ALL EXISTING PLUMBING FIXTURES/EQUIPMENT AND ALL ASSOCIATED PIPING BACK TO ACTIVE MAINS WITHIN BUILDING. PROVIDE A CLEAN FINISHED SPACE. ALL EXISTING DISTRIBUTION PIPING SHALL BE REMOVED BACK TO SERVICE MAIN.
2. EXISTING WATER MAIN SHALL REMAIN AND BE RE-USED FOR NEW WORK. ALL DISTRIBUTION PIPING SHALL BE REMOVED. WATER METER SHALL RE-INSTALLED.
3. EXISTING SANITARY SEWER MAIN TO REMAIN. ALL EXISTING WASTE AND VENT PIPING TO FIXTURES SHALL BE DISCONNECTED AND REMOVED THROUGHOUT BUILDING. EXISTING VENT THRU THE ROOF SHALL BE DEMOLISHED.
4. DEMOLISH ALL ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, RECEPTACLES, PANELS, SMOKE DETECTORS, OCCUPANCY SENSORS, ETC THROUGHOUT BUILDING.
5. DEMOLISH ALL EXISTING HVAC SYSTEMS (EXHAUST FANS, DUCTS, CONTROLS, ETC.) THROUGHOUT BUILDING.
6. EXISTING ELECTRICAL FEEDS TO SCOREBOARD TO BE CONNECTED TO NEW PANEL MDP. CONTRACTOR SHALL DISCONNECT EXISTING CONDUCTORS AND CONDUIT AND PREPARE FOR CONNECTION TO NEW PANEL MDP. CONTRACTOR SHALL MODIFY/EXTEND EXISTING CONDUCTORS AND CONDUIT TO ACCOMMODATE RECONNECTION.
7. CONTRACTOR SHALL DEMOLISH EXISTING ELECTRICAL SERVICE CONDUCTORS BACK TO UTILITY POLE.

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED FOR FAILURE TO OBSERVE THIS REQUIREMENT.
2. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL WIRING AND EQUIPMENT AS REQUIRED WITHIN ALL AREAS TO BE RENOVATED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FIXTURES, DEVICES, OUTLETS, SWITCHES, RECEPTACLES, STARTERS, DISCONNECTS, PANELS, FEEDERS, ETC.
3. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING CIRCUITS TO MECHANICAL EQUIPMENT BEING REMOVED. REFER TO ALL MECHANICAL DEMOLITION DRAWINGS OR NOTES FOR LOCATIONS.
4. WHERE ELECTRICAL ITEMS ARE REMOVED, ALL BRANCH DEVICES WIRING SHALL BE REMOVED BACK TO PANEL SERVICING THE EQUIPMENT. WHERE CIRCUITS SERVE ADDITIONAL DEVICES OR EQUIPMENT REMAINING, WIRING SHALL BE REMOVED BACK TO THE NEAREST ACTIVE JUNCTION BOX.
5. THE CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING CIRCUITS THAT ARE TO REMAIN IN OPERATION AND SCHEDULE FOR RE-FEEDING FROM NEW PANELS. FORWARD FINDINGS TO ENGINEER FOR REVIEW AND COORDINATION.
6. ALL UNUSED CIRCUITS REMAINING AFTER REMOVALS SHALL BECOME SPARE IN PANELS AND LABELED AS SPARE.
7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF DEMOLITION.
8. ALL MATERIALS AND EQUIPMENT REMOVALS SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER OR THE ARCHITECT.



01 **MEP DEMOLITION FLOOR PLAN**
MEPD1.1 1/4"=1'-0"

CERTIFICATE:



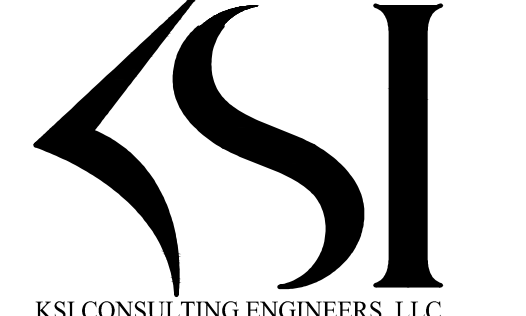
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P.O. BOX 628 FARMINGDALE, NJ 07727
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FAX: 732.938.2521
CERTIFICATE OF AUTHORIZATION NO. 246A28124500
PAUL RIPSCH, N.J.P.E. LICENSE NUMBER: 4515880
ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER. THE REPRODUCTION OF THIS DRAWING FOR THE PURPOSE OF CONTRACTING THIS WORK OR ANY OTHER DRAWING SHALL BE CONSIDERED A VIOLATION OF BOTH THE PROFESSIONAL CODE OF ETHICS AND A TRUST OF COMMON LAW, BOTH OF WHICH SHALL BE PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

PROJECT:
PICNIC SHELTER &
RESTROOMS
AT
CHALLENGE GROVE PARK

FOR
CAMDEN COUNTY PARK
CHERRY HILL, NJ

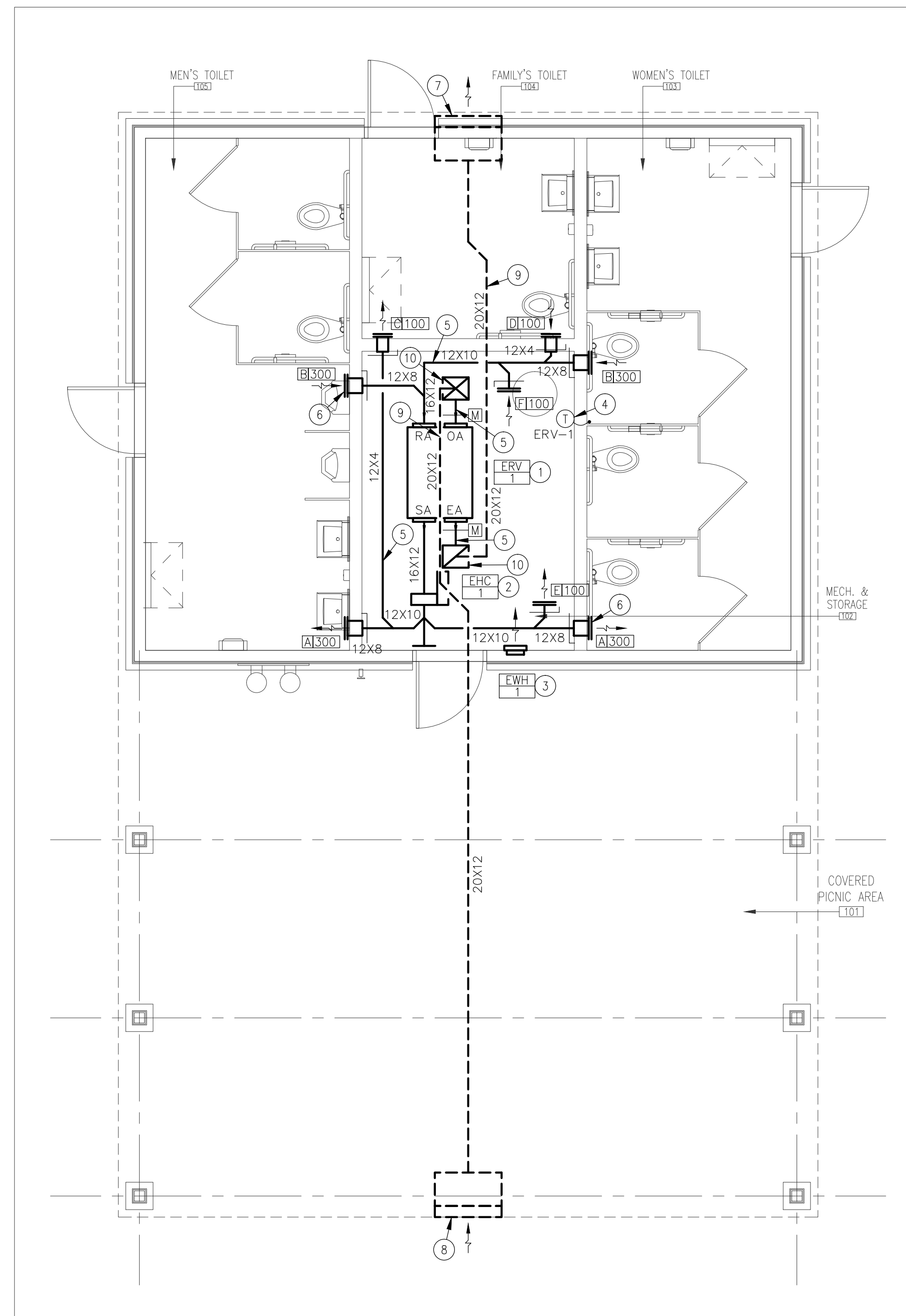
SUBMISSION DATES:
FOR CODE APPROVAL _____
REVISIONS:

FOR BID **JULY 10, 2020**
DO NOT SCALE DRAWING

DRAWING TITLE:
WALL SECTIONS
**MEP
DEMOLITION
CONCESSION
STAND PLAN**

COMMISSION NUMBER:
19M014

DRAWING NUMBER:
MEPD 1.1



01 MECHANICAL FLOOR PLAN
M1.1 1/4"=1'-0"

KEY NOTES

1. CONCEALED CEILING MOUNTED ENERGY RECOVERY VENTILATOR UNIT WITH INTEGRAL MOTORIZED ISOLATION DAMPERS INSTALLED TIGHT TO CEILING. INTERLOCK UNIT WITH REMOTE LIGHTING OCCUPANCY SENSORS AND THERMOSTAT (SEE GENERAL NOTE #4) FOR OPERATION. PROVIDE ALL FACTORY FITTINGS, ADAPTERS, ETC. REQUIRED FOR PROPER INSTALLATION. COORDINATE LOCATION IN FIELD TO MAINTAIN REQUIRED CLEARANCES FROM LIGHTS, STRUCTURE AND ANY CEILING MOUNTED EQUIPMENT. SUPPORT UNIT AS RECOMMENDED BY MANUFACTURER. PROVIDE FLEXIBLE DUCT CONNECTIONS TO UNIT. SEE DETAIL AND SCHEDULES FOR MORE INFORMATION.
2. DUCT MOUNTED ELECTRIC HEATING COIL INSTALLED TIGHT TO CEILING. TRANSITION DUCTS AS REQUIRED FOR PROPER MATING TO COIL. INSTALL COIL TO MAINTAIN REQUIRED CLEARANCES AS PER THE MANUFACTURER AND NEC. COIL SHALL BE INTERLOCKED WITH ASSOCIATED ERV UNIT AND DUCT TEMPERATURE SENSOR (SET FOR 78°F ADJ. SUPPLY AIR DISCHARGE TEMPERATURE) FOR CONTROL OPERATION. SEE GENERAL NOTE #4 AND SCHEDULE FOR MORE INFORMATION.
3. WALL MOUNTED RECESSED ELECTRIC HEATER. MOUNT HEATER 12" ABOVE FLOOR. COORDINATE UNIT RECESSING WITH WALL CONSTRUCTION AND AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SCHEDULES FOR MORE INFORMATION.
4. NEW WALL MOUNTED ADJUSTABLE THERMOSTAT WITH REMOTE SENSING FOR ERV OPERATION. THERMOSTAT SHALL BE MANUFACTURED BY PECO MODEL TR115-005. SENSING BULB WITH WHIP. INDUSTRIAL GRADE TYPE, ADJUSTABLE TEMPERATURE, 0°F TO 120°F TEMPERATURE RANGE RATING, 120V/1PH OR EQUAL. CONFIRM INSTALLATION LOCATION WITH ALL TRADES AND MOUNTING HEIGHT TO MEET ADA REQUIREMENTS PRIOR TO INSTALLATION. MOUNT REMOTE TEMPERATURE BULB END/TIP THROUGH BATHROOM CEILING. SEE ERV SCHEDULE FOR MORE INFORMATION.
5. SUPPLY/RETURN/OA/EXHAUST AIR DUCT INSTALLED TIGHT TO CEILING. COORDINATE ROUTING WITH ALL TRADES. TYPICAL FOR ALL.
6. SUPPLY/RETURN REGISTER INSTALLED APPROXIMATELY 12" BELOW CEILING. COORDINATE FINAL LOCATION WITH ALL TRADES. TYPICAL FOR ALL.
7. NEW STORM-PROOF EXHAUST AIR DISCHARGE LOUVER MANUFACTURED BY GREENHECK MODEL ESJ-602. SIZE 30"Wx16"Hx10"D. FREE AREA 1.54 SQ.FT. OR APPROVED EQUAL. MOUNT LOUVER IN EXTERIOR WALL ROOF PEAK WITH BIRDSCREEN. MODIFY WALL OPENING TO ACCOMMODATE NEW LOUVER SIZE. COORDINATE OPENING WITH BUILDING CONSTRUCTION AS REQUIRED. PROVIDE 18" MINIMUM DEEP OUTSIDE AIR DUCT PLENUM CONNECTION TO LOUVER.
8. NEW STORM-PROOF OUTSIDE AIR INTAKE LOUVER MANUFACTURED BY GREENHECK MODEL ESJ-602. SIZE 30"Wx16"Hx10"D. FREE AREA 1.54 SQ.FT. OR APPROVED EQUAL. MOUNT LOUVER IN EXTERIOR WALL ROOF PEAK WITH BIRDSCREEN. MODIFY WALL OPENING TO ACCOMMODATE NEW LOUVER SIZE. COORDINATE OPENING WITH BUILDING CONSTRUCTION AS REQUIRED. PROVIDE 18" MINIMUM DEEP OUTSIDE AIR DUCT PLENUM CONNECTION TO LOUVER.
9. OA/EXHAUST AIR DUCT INSTALLED/ROUTED IN ATTIC ABOVE TO LOUVER. COORDINATE ROUTING WITH ALL TRADES AND STRUCTURE/TRUSSES.
10. 16"x12" OA/EXHAUST AIR DUCT THROUGH CEILING TO ATTIC ABOVE. SEAL CEILING DUCT PENETRATION WITH SUPPORT COLLAR/FLANGE AND SEALANT. TRANSITION FROM 16"x12" TO 20"x12" IN ATTIC. COORDINATE ROUTING WITH ALL TRADES.

GENERAL NOTES

1. CONTRACTOR TO PATCH ALL DISTURBED FINISHES WITH MATERIAL AND ASSEMBLIES TO MATCH ADJACENT SURFACES AND FINISHES (TYPICAL). COORDINATE WITH ARCHITECT.
2. ALL DUCT ROUTINGS ARE PROPOSED AND SHALL BE COORDINATED WITH WALL, CEILING AND FLOOR CONSTRUCTION AND ALL OTHER TRADES. RE-ROUTING OF DUCTS, PIPING, POWER, ETC. MAY BE REQUIRED TO AVOID TRADE CONFLICTS.
3. ALL EXPOSED DUCTS IN MECHANICAL ROOM TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZES SHOWN ARE INCREASED TO ACCOMMODATE LINING THICKNESS.
4. HVAC SYSTEM OPERATION SHALL BE AS FOLLOWS:
ENERGY RECOVERY VENTILATOR UNIT (ERV-1):
 *THE ENERGY RECOVERY VENTILATOR (ERV) UNIT (ERV-1) SHALL BE INTERLOCKED WITH ALL 3 BATHROOMS REMOTE LIGHTING OCCUPANCY SENSORS AND SPACE TEMPERATURE THERMOSTAT.
 *THE ERV UNIT SHALL ENABLED "ON" WITH INTEGRAL MOTORIZED OA/EA DAMPERS IN THE "OPEN" POSITION, UPON ANY OCCUPANCY SENSOR DETECTING BATHROOM USE AND/OR THE SPACE TEMPERATURE IS BELOW THE THERMOSTAT TEMPERATURE SETPOINT OF 50°F (ADJ.).
 *THE ERV UNIT SHALL BE ENABLED "OFF" WITH INTEGRAL MOTORIZED OA/EA DAMPERS IN THE "OFF" POSITION, UPON ANY OCCUPANCY SENSOR NOT DETECTING BATHROOM USE AND THE THERMOSTAT TEMPERATURE SETPOINT OF 50°F (ADJ.) IS SATISFIED.
ELECTRIC HEATING COIL (EHC-1):
 *THE DUCT MOUNTED ELECTRIC HEATING COIL (EHC-1) SHALL BE INTERLOCKED WITH ERV UNIT STARTER AND DUCT MOUNTED SUPPLY AIR TEMPERATURE SENSOR (SETPOINT AT 78°F ADJ.).
 *THE EHC SHALL ENABLED "ON" UPON THE ERV UNIT ENABLING "ON" (START).
 *THE EHC SHALL ENERGIZE STAGES OF HEAT AS REQUIRED UPON THE INTEGRAL AIR PROVING SWITCH BEING SATISFIED AND THE DUCT MOUNTED DISCHARGE SUPPLY AIR TEMPERATURE SENSOR IS BELOW 78°F (ADJ.).
 *THE EHC SHALL BE DE-ENERGIZED "OFF" UPON THE DUCT MOUNTED DISCHARGE SUPPLY AIR TEMPERATURE SENSOR SETPOINT OF 78°F (ADJ.) IS SATISFIED / MAINTAINED (WITH ±2°F DEADBAND).
 **CONTRACTOR TO PROVIDE ALL REQUIRED CONTROLS (INTERLOCKS, WIRING, CONTROLLERS, RELAYS, PROGRAMMING, ETC.) TO AUTOMATICALLY OPERATE ERV-1 AND EHC-1.

CERTIFICATE:



ARCHITECTURAL GROUP

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 SPIEGLE ARCHITECTURAL GROUP, INC. 21400063000

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 CERTIFICATE OF AUTHORIZATION NO. 24628124500
 PAUL RIFSHIN, P.E. LICENSE NUMBER: 4515800
 ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER. THE PROFESSIONAL SEAL AND SIGNATURE FOR THE PURPOSE OF CERTIFYING THIS WORK OR ANY PART THEREOF SHALL BE CONSIDERED A VIOLATION OF BOTH THE PROFESSIONAL CODE OF ETHICS AND A TRUST OF CONFIDENCE, BOTH OF WHICH SHALL BE PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

PROJECT:
PICNIC SHELTER & RESTROOMS AT CHALLENGE GROVE PARK
 DATE: 06/19/2020 PROJECT # 20004_02
FOR CAMDEN COUNTY PARK CHERRY HILL, NJ

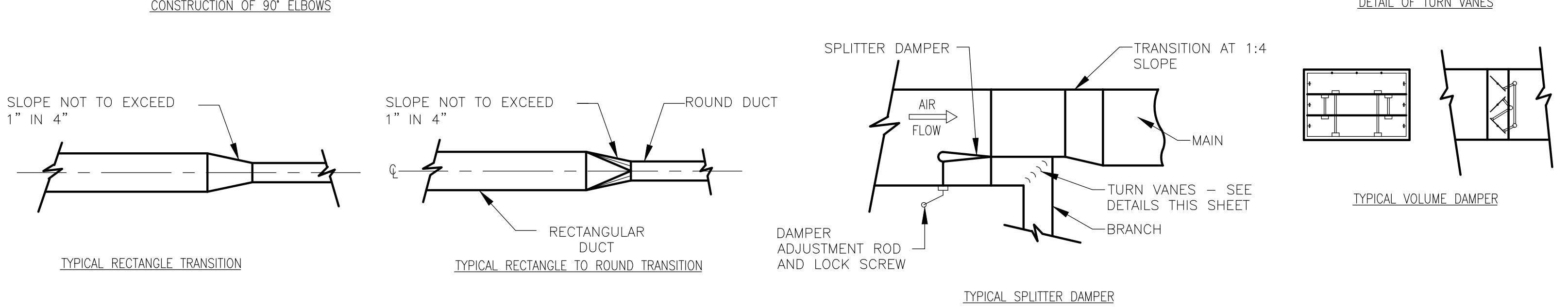
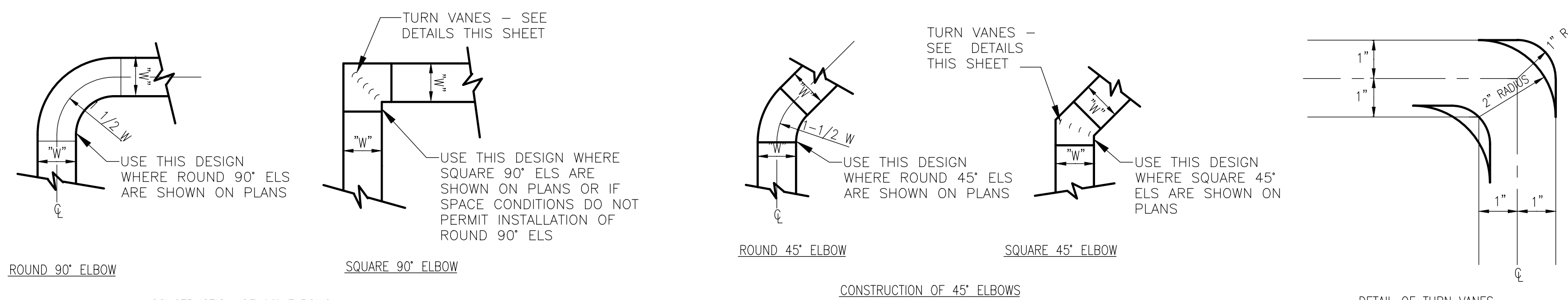
SUBMISSION DATES:
FOR CODE APPROVAL
REVISIONS:

FOR BID JULY 10, 2020
DO NOT SCALE DRAWING

DRAWING TITLE:
WALL SECTIONS
MECHANICAL FLOOR PLAN

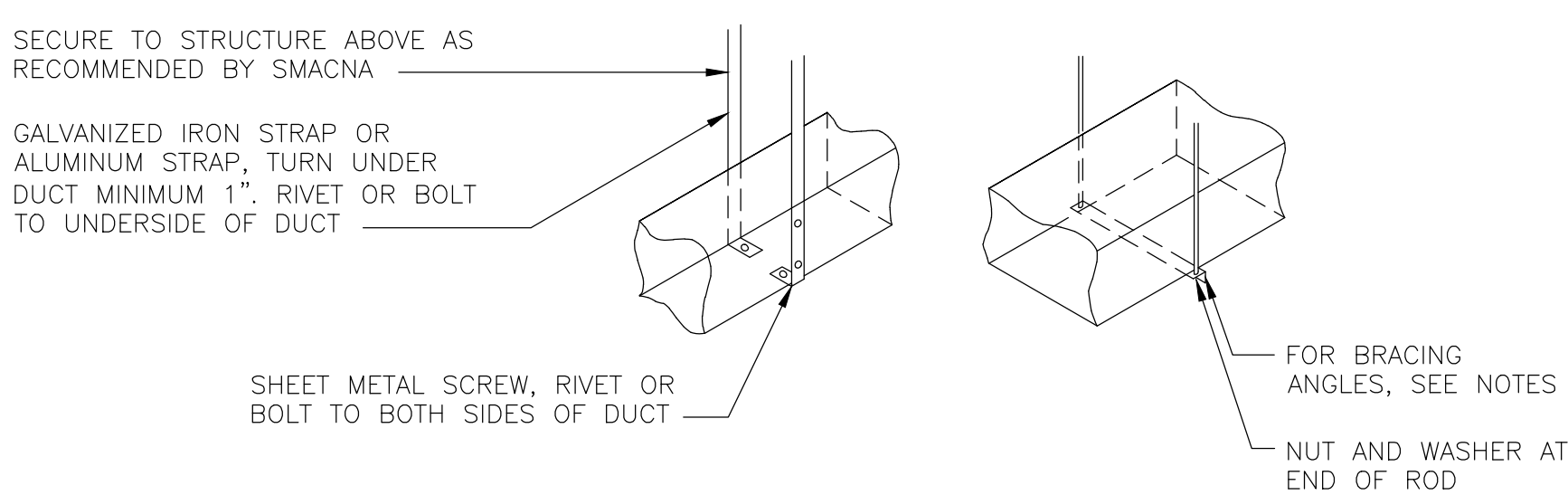
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 19M014

DRAWING NUMBER:
 M1.1

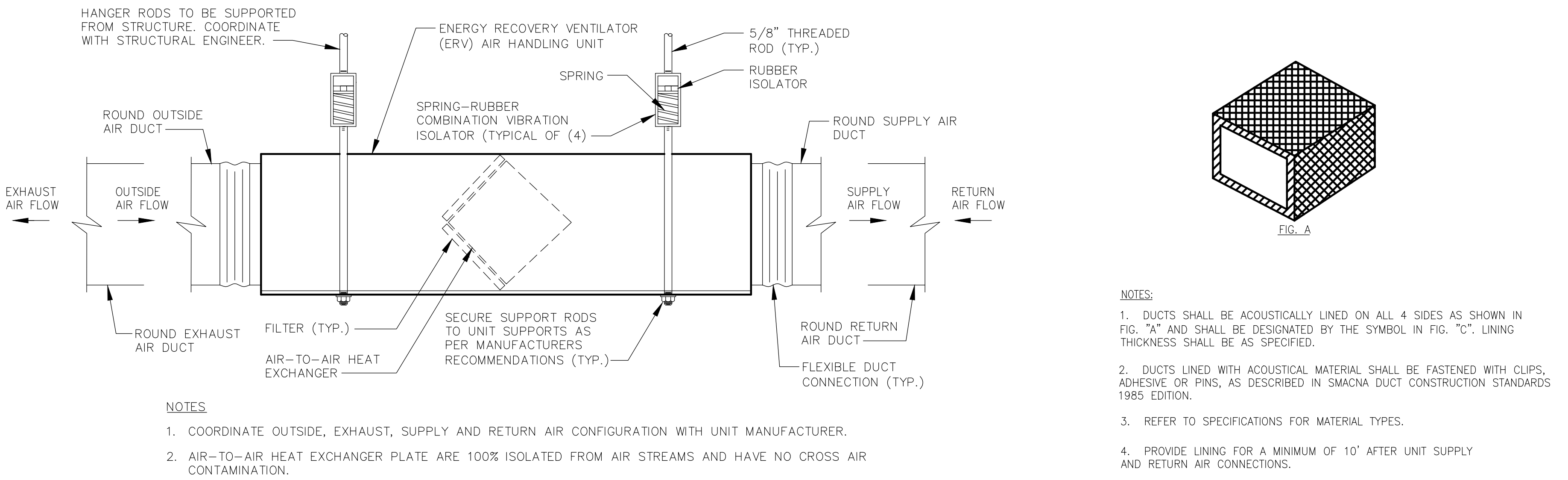


01 DUCTWORK DETAILS
M2.1 NONE

| HALF DUCT PERIMETER RANGE | PAIR AT 10' SPACING | | PAIR AT 8' SPACING | | PAIR AT 5' SPACING | | PAIR AT 4' SPACING | |
|---------------------------|---------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
| | STRAP | WIRE/ROD | STRAP | WIRE/ROD | STRAP | WIRE/ROD | STRAP | WIRE/ROD |
| P/2 < 30" | 1" x 22 GA. | 10 GA. (0.135") | 1" x 22 GA. | 10 GA. (0.135") | 1" x 22 GA. | 12 GA. (0.106") | 1" x 22 GA. | 12 GA. (0.106") |
| P/2 < 72" | 1" x 18 GA. | 3/8" | 1" x 20 GA. | 3/8" | 1" x 22 GA. | 1/4" | 1" x 22 GA. | 1/4" |
| P/2 < 96" | 1" x 16 GA. | 3/8" | 1" x 18 GA. | 3/8" | 1" x 20 GA. | 3/8" | 1" x 22 GA. | 1/4" |
| P/2 < 120" | 1" x 12" x 16 GA. | 1/2" | 1" x 16 GA. | 3/8" | 1" x 18 GA. | 3/8" | 1" x 20 GA. | 1/4" |
| P/2 < 168" | 1" x 12" x 16 GA. | 1/2" | 1" x 16 GA. | 1/2" | 1" x 18 GA. | 3/8" | 1" x 18 GA. | 3/8" |
| P/2 < 192" | - | 1/2" | 1" x 12" x 16 GA. | 1/2" | 1" x 18 GA. | 3/8" | 1" x 16 GA. | 3/8" |

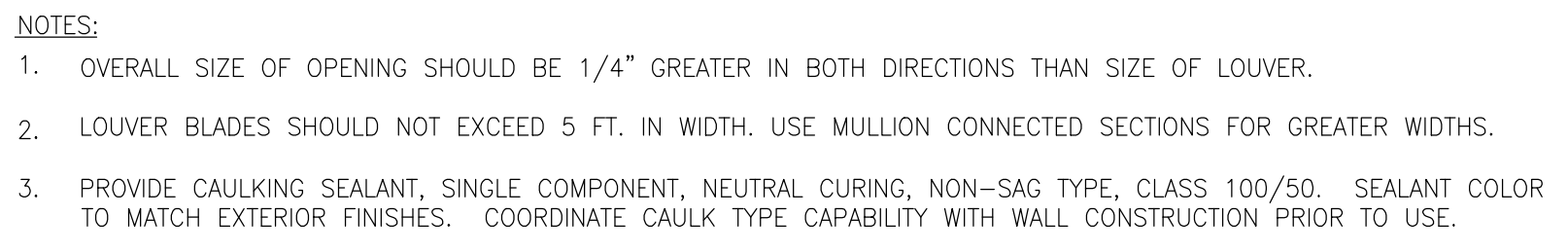
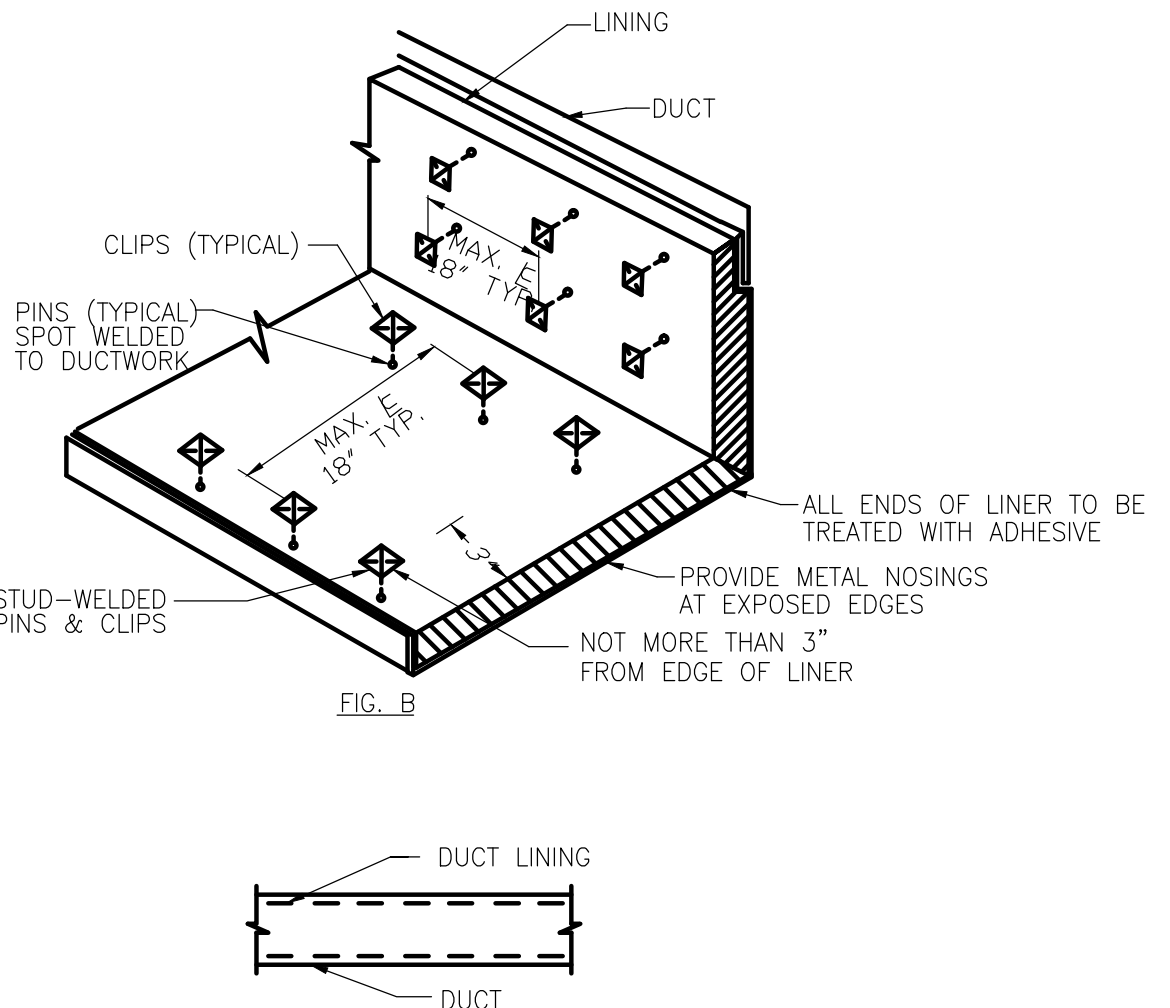


02 DUCT HANGER DETAILS
M2.1 NONE



03 CEILING HUNG ERV AIR HANDLING UNIT SUPPORT DETAIL
M2.1 NONE

04 ACOUSTICAL TREATMENT - DUCT LINING DETAIL
M2.1 NONE



05 AIR LOUVER INSTALLATION DETAIL
M2.1 NONE

| UNIT ID | MODEL NUMBER | SPACE SERVED | SUPPLY FAN | | | EXHAUST FAN | | | WINTER CONDITIONS | | | SUMMER CONDITIONS | | | ELECTRICAL CHARACTERISTICS | | | DIMENSIONS | | | NOTES | | | |
|---------|--------------|--------------|----------------|------------|----------------|----------------|------------|----------------|------------------------|-----------------------|--------------------------------|------------------------|-----------------------|--------------------------------|----------------------------|-------|-------|------------|-------------|---------------|-------|--------------|---------------|---------------|
| | | | AIR FLOW (CFM) | MOTOR (HP) | ESP (IN. W.C.) | AIR FLOW (CFM) | MOTOR (HP) | ESP (IN. W.C.) | EAT (AMBIENT) DB/WB °F | LAT (SUPPLY) DB/WB °F | TOTAL CAPACITY RECOVERED (MBH) | EAT (AMBIENT) DB/WB °F | LAT (SUPPLY) DB/WB °F | TOTAL CAPACITY RECOVERED (MBH) | VOLTS | PHASE | HERTZ | MCA | MOCP (AMPS) | LENGTH (INCH) | | WIDTH (INCH) | HEIGHT (INCH) | WEIGHT (LBS.) |
| ERV-1 | HE1XNH | BATHROOMS | 800 | 0.75 | 0.65 | 800 | 0.75 | 0.65 | 0 / 0 | 47.6 / 39.5 | 50.93 | 95 / 75 | 81.4 / 69.2 | 18.27 | 208 | 1 | 60 | 10.8 | 20 | 49.2 | 34.8 | 21.8 | 280 | 1 THRU 9 |

NOTES:
 1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY RENEW-AIRE OR APPROVED EQUAL.
 2. UNIT SHALL INDOOR CEILING MOUNTED TYPE WITH SUPPLY AND EXHAUST AIR FAN MOTORS (ECM TYPE).
 3. UNIT SHALL HAVE ALL INTEGRAL CONTROLS FOR COMPLETE OPERATION.
 4. UNIT SHALL HAVE CROSS-FLOW "AIR-TO-AIR" ENERGY RECOVERY CORE HEAT EXCHANGER. COORDINATE AIR CONNECTION CONFIGURATION TYPE WITH LAYOUT ON PLANS.
 5. UNIT SHALL HAVE FACTORY MOTORIZED OUTSIDE AND EXHAUST AIR DAMPERS WITH FULL CONTROL.
 6. UNIT SHALL HAVE DISCONNECT SWITCH.
 7. INTERLOCK UNIT WITH ALL REMOTE LIGHTING OCCUPANCY SENSORS AND THERMOSTAT FOR UNIT OPERATION.
 8. UNIT SHALL HAVE REMOVABLE TYPE ACCESS DOOR PANELS.
 9. PROVIDE MERV 8 FILTERS (SIZES AND QUANTITIES AS PER MANUFACTURER REQUIREMENTS).

| UNIT ID | MODEL NO. | EQUIPMENT UNIT ID | AIR FLOW CFM | CAPACITY KW | MBH | DUCT SIZE WIDTH (IN.) | HEIGHT (IN.) | ELECTRICAL VOLTS | PHASE | HERTZ | MCA | MOCP | WEIGHT (LBS) | NOTES |
|---------|--------------|-------------------|--------------|-------------|-------|-----------------------|--------------|------------------|-------|-------|------|------|--------------|----------|
| EHC-1 | EX-16-12-010 | ERV-1 | 800 | 10.0 | 34.13 | 16 | 12 | 240 | 1 | 60 | 41.6 | 50.0 | 40 | 1 THRU 6 |

NOTES:
 1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY RENEW-AIRE OR APPROVED EQUAL.
 2. UNIT ENABLING SHALL BE INTERLOCKED WITH ASSOCIATED HIP UNIT OPERATION. PROVIDE DISCHARGE AIR DUCT TEMPERATURE SENSOR INTERLOCKED WITH COIL HEATING FOR CONTROL OPERATION (SET FOR MAINTAINING 78°F ADJ. SUPPLY AIR DISCHARGE TEMPERATURE). PROVIDE ALL CONTROL WIRING AND COMPONENTS REQUIRED FOR FULL OPERATION (RELAYS, 24V TRANSFORMERS, LINE VOLTAGE WIRING, ETC.).
 3. PROVIDE DISCONNECT SWITCH, AIR PROVING SWITCH, OVER-CURRENT, TIME DELAY AND THERMAL OVERLOAD PROTECTION.
 4. COIL SHALL HAVE 2-STAGE CAPACITY CONTROL.
 5. UNIT SHALL BE SLIP-IN OPEN COIL TYPE FOR DUCT MOUNTING.
 6. COIL AIRFLOW DIRECTION AND RIGHT / LEFT SIDE CONTROL BOX CONFIGURATION SHALL BE COORDINATED PRIOR TO ORDERING FOR PROPER INSTALLATION AND MAINTAINING REQUIRED CLEARANCES.

| UNIT ID | MODEL NO. | LOCATION | CAPACITY MBH | AIR FLOW CFM | KW | VOLTS | PHASE | HERTZ | MCA | MOCP | DIMENSIONS WIDTH (IN.) | HEIGHT (IN.) | DEPTH (IN.) | WEIGHT (LBS) | NOTES |
|---------|--------------|-----------------|--------------|--------------|-----|-------|-------|-------|------|------|------------------------|--------------|-------------|--------------|----------|
| EWH-1 | OWH-1151DSAG | MECHANICAL ROOM | 5.12 | 65 | 1.5 | 120 | 1 | 60 | 12.5 | 20 | 10.5 | 12.5 | 4.8 | 20 | 1 THRU 6 |

NOTES:
 1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY QMARK/MARLEY OR APPROVED EQUAL.
 2. PROVIDE TAMPERPROOF INTEGRAL THERMOSTAT.
 3. PROVIDE DISCONNECT SWITCH.
 4. UNIT SHALL HAVE THERMAL OVERLOAD PROTECTION.
 5. PROVIDE FACTORY HEAVY DUTY 14 GA. ARCHITECTURAL SECURITY TYPE FRONT GRILLE.
 6. UNIT SHALL BE SEMI-SURFACE MOUNTING FRAME.

| UNIT ID | MODEL | SIZE | DESCRIPTION | NOTES |
|---------|-------|---------|---|-----------|
| A | MSLL | 12"x12" | MEDIUM SECURITY 14 GA. WELDED STEEL SUPPLY GRILLE WITH INTEGRAL SLEEVE AND FRAME, FIXED 0° DEFLECTION LOUVER BLADES, 1/2" BLADE SPACING | 1,2,3,4,6 |
| B | MSBL | 12"x12" | MEDIUM SECURITY 14 GA. WELDED STEEL SUPPLY GRILLE WITH INTEGRAL SLEEVE AND FRAME, BENT FIXED 45° DEFLECTION LOUVER BLADES, 1/2" BLADE SPACING | 1,2,3,4,6 |
| C | MSLL | 8"x8" | MEDIUM SECURITY 14 GA. WELDED STEEL SUPPLY GRILLE WITH INTEGRAL SLEEVE AND FRAME, FIXED 0° DEFLECTION LOUVER BLADES, 1/2" BLADE SPACING | 1,2,3,4,6 |
| D | MSBL | 8"x8" | MEDIUM SECURITY 14 GA. WELDED STEEL SUPPLY GRILLE WITH INTEGRAL SLEEVE AND FRAME, BENT FIXED 45° DEFLECTION LOUVER BLADES, 1/2" BLADE SPACING | 1,2,3,4,6 |
| E | 520D | 10"x4" | STEEL SUPPLY GRILLE, ADJUSTABLE DOUBLE DEFLECTION LOUVER BLADES, 3/4" BLADE SPACING, DAMPER | 1,2,3,4,6 |
| F | 530D | 10"x4" | STEEL RETURN/EXHAUST GRILLE, 45° DEFLECTION LOUVER BLADES, 3/4" BLADE SPACING, DAMPER | 1,2,3,4,6 |

NOTES:
 1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY PRICE HVAC OR APPROVED EQUAL.
 2. MAXIMUM NOISE CRITERION RATING < 25 DBA.
 3. BAKED ENAMEL FINISH, COLOR TO BE SELECTED BY ARCHITECT.
 4. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH CEILING / WALL / DUCT CONSTRUCTION TYPE.
 5. NECK DIAMETER SHALL BE AS SCHEDULED FOR CEILING DIFFUSERS/REGISTERS. SEE NECK SIZE TABLE.
 6. UNLESS OTHERWISE INDICATED ON PLANS, BALANCING DAMPER TO BE INSTALLED IN NECK/BRANCH OF DIFFUSER OR RETURN.

NECK SIZE TABLE
 UP TO 100 CFM - 6" DIAMETER
 100 TO 275 CFM - 8" DIAMETER
 276 TO 380 CFM - 10" DIAMETER
 381 TO 500 CFM - 12" DIAMETER
 501 TO 700 CFM - 14" DIAMETER
 701 TO 901 CFM - 15" DIAMETER

06 MECHANICAL EQUIPMENT SCHEDULES
M2.1 NONE

CERTIFICATE:



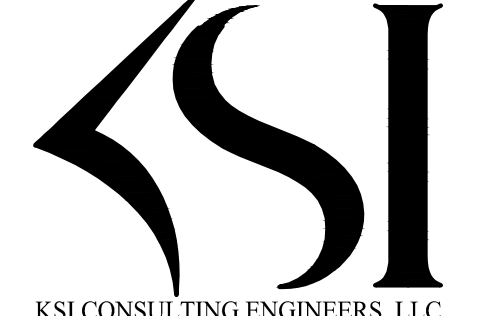
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CONSULTANTS:



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 CERTIFICATE OF AUTHORIZATION NO. 246428124500
 PAUL RUPISH, N.J.P.E. LICENSE NUMBER: 4515880
 ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER. THE REPRODUCTION OF THESE DRAWINGS FOR THE PURPOSE OF CONSTRUCTION WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER SHALL BE CONSIDERED A VIOLATION OF BOTH THE PROFESSIONAL CODE OF ETHICS AND A TRUST OF CONFIDENCE, BOTH OF WHICH SHALL BE PROSECUTED TO THE FULLEST EXTENT OF CURRENT STATUTES.

PROJECT:

PICNIC SHELTER & RESTROOMS AT CHALLENGE GROVE PARK

DATE: 02/08/2020

FOR CAMDEN COUNTY PARK CHERRY HILL, NJ

SUBMISSION DATES:

FOR CODE APPROVAL

REVISIONS:

FOR BID JULY 10, 2020

DO NOT SCALE DRAWING

DRAWING TITLE:

WALL SECTIONS
 MECHANICAL DETAILS AND SCHEDULES

COMMISSION NUMBER:

19M014

DRAWING NUMBER:

M2.1

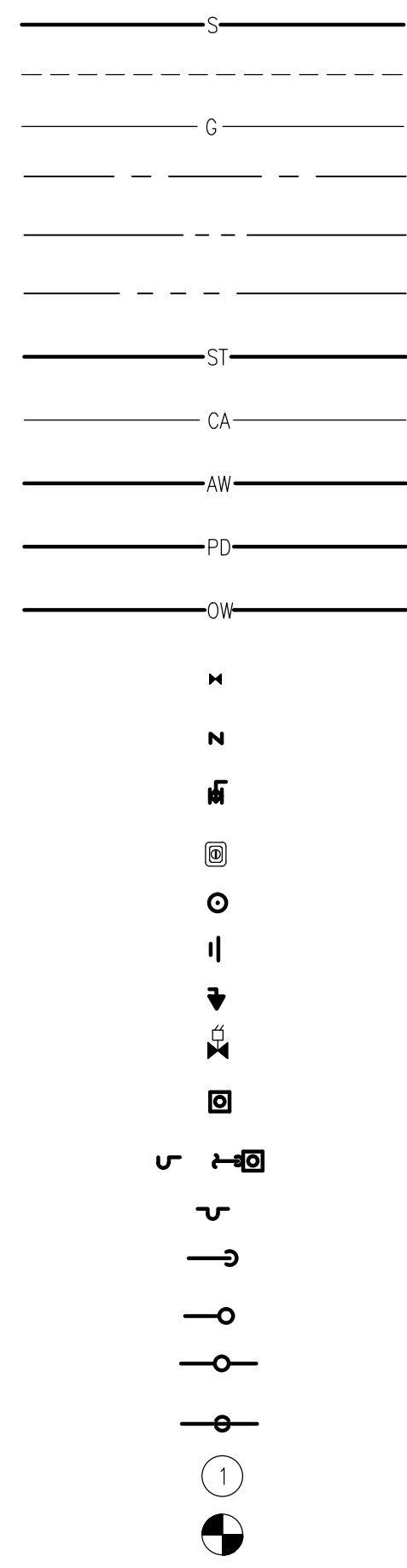
PLUMBING GENERAL NOTES

- DO NOT SCALE FROM THESE DRAWINGS.
- DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
- ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE.
- IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWING TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- THE PLUMBING CONTRACTOR MUST VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET, PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
- IT IS CRITICAL THAT THE PLUMBING CONTRACTOR FIELD VERIFIES ALL EXISTING INVERTS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEMS AND THE EXISTING SITE LEVEL SYSTEMS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF AN OWNER'S REPRESENTATIVE AND THE ENGINEER PRIOR TO BID SUBMISSION. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR ANY EXTRA WORK WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE EXISTING SITE LEVEL PIPING SYSTEMS.
- THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING, PIPING CONNECTIONS AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
- RUN ALL DOMESTIC, WASTE & VENT PIPING AS HIGH AS POSSIBLE THROUGHOUT ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN STEEL (JOIST) SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE AND VERIFY WITH OTHER CONTRACTORS AS NOT TO INTERFERE WITH DUCTWORK, FIRE PROTECTION PIPING, LIGHTING SYSTEMS, ETC.
- ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH A OWNER REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION.
- ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
- ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES.
- DOMESTIC HOT WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVES SHALL BE PIPED FULL SIZE TO THE NEAREST APPROVED STANDPIPE OR FLOOR DRAIN. THIS REQUIREMENT SHALL BE APPLICABLE TO ALL DOMESTIC WATER HEATERS EXCEPT INSTANTANEOUS WATER HEATERS.
- ALL PLUMBING VENT LINES NOTED AS "V. UP" OR "VENT UP" SHALL BE CONNECTED TO THE NEAREST APPROVED "V.T.R." OR "VENT THRU ROOF."
- PRIOR TO INSTALLING SYSTEMS, THE PLUMBING CONTRACTOR SHALL MEET WITH THE ARCHITECTS REPRESENTATIVE TO FIELD VERIFY THE EXACT LOCATION OF ALL PROPOSED EQUIPMENT WHICH MAY NOT BE CLEARLY INDICATED ON THE DRAWINGS.
- PROVIDE C.O.'S AT THE BASE OF ALL SANITARY AND STORM STACKS.
- SANITARY SEWER PIPING SHOWN IS BASED ON .25" PER FOOT FALL FOR ALL PIPING SMALLER THAN 4", AND .125" PER FOOT FALL FOR ALL PIPING 4" AND LARGER.
- PROVIDE ALL SAW CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE ALL NEW PIPING AND FIXTURE INSTALLATION.
- LEAD FREE REQUIREMENT: PRODUCTS DESIGNED FOR DISPENSING POTABLE WATER SHALL MEET NSF 61 AND NSF 372 TEST STANDARDS VIA THIRD-PARTY TESTING AND CERTIFICATION.

DEMOLITION NOTES

- ALL PIPING AND EQUIPMENT TO BE REMOVED SHALL BE REMOVED BACK TO NEAREST STACK, RISER, OR MAIN IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS/STANDARDS, CODES AND AUTHORITY HAVING JURISDICTION.
- REMOVE ANY ABANDONED AND/OR UNUSED PIPING DISCOVERED DURING DEMOLITION. THERE SHALL BE NO DEAD-ENDS GREATER THAN 24 INCHES IN ANY PLUMBING PIPING SYSTEMS.
- DURING DEMOLITION ANY DAMAGES DISCOVERED IN EXISTING PIPING TO REMAIN SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ALL EXISTING PIPING AND APPURTENANCES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION. ANY DAMAGES INCURRED SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL COORDINATE, NOTIFY, AND SCHEDULE ALL REMOVALS WITH THE OWNER PRIOR TO PROCEEDING WITH THE WORK.
- THIS CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVAL AND RELOCATIONS IN THE CONTRACT.
- THE CONTRACTOR PRIOR TO BID SHALL VISIT THE SITE, EXAMINE THE EXISTING CONDITIONS, DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING. CONTRACTOR WILL BE RESPONSIBLE FOR ANY UNREPORTED DISCREPANCIES.
- THE CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS AND IDENTIFY ANY WORK WHICH MAY BE REQUIRED TO BE PERFORMED ON OVERTIME IN ORDER NOT TO DISTURB OCCUPIED SPACES WHICH ARE NOT WITHIN THE SCOPE OF THIS CONTRACT. OBTAIN WRITTEN APPROVAL OF THE OWNER PRIOR TO PERFORMING ANY SHUTDOWNS OR PERFORMING WORK ON OVERTIME.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND PHASING SEQUENCE.
- CONTRACTOR TO MAINTAIN UTILITY SYSTEMS OPERATIONAL DURING CONSTRUCTION. CONTRACTOR TO PROVIDE TEMPORARY MEASURES TO MAINTAIN SYSTEMS IN THE COST OF THE BID.
- CONTRACTOR TO PATCH ALL HOLES, PENETRATIONS, AND ABANDONED HOLES CREATED BY RENOVATIONS. PATCH WALL AND FLOOR SLABS TO MATCH ADJACENT SURFACES.

PLUMBING SYMBOLS



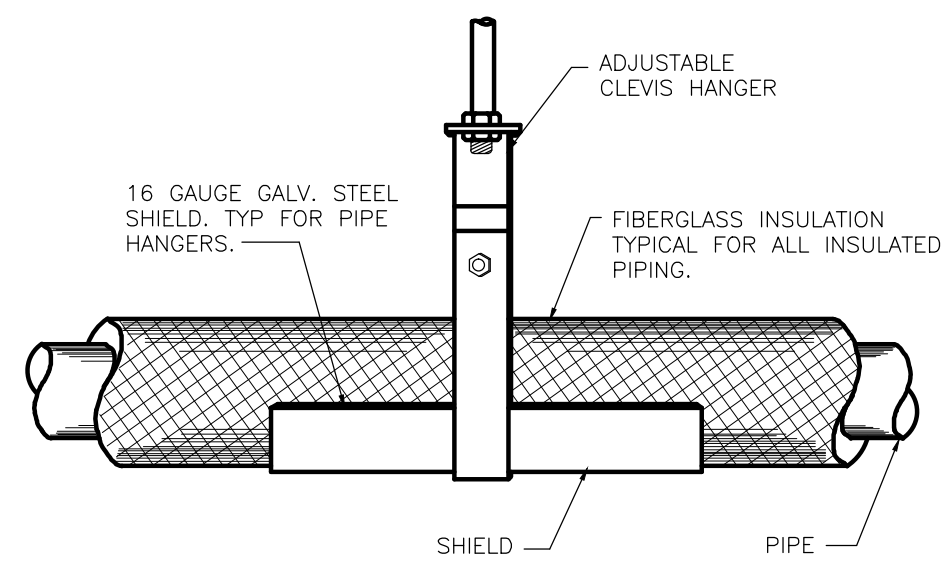
NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT.

PLUMBING ABBREVIATIONS

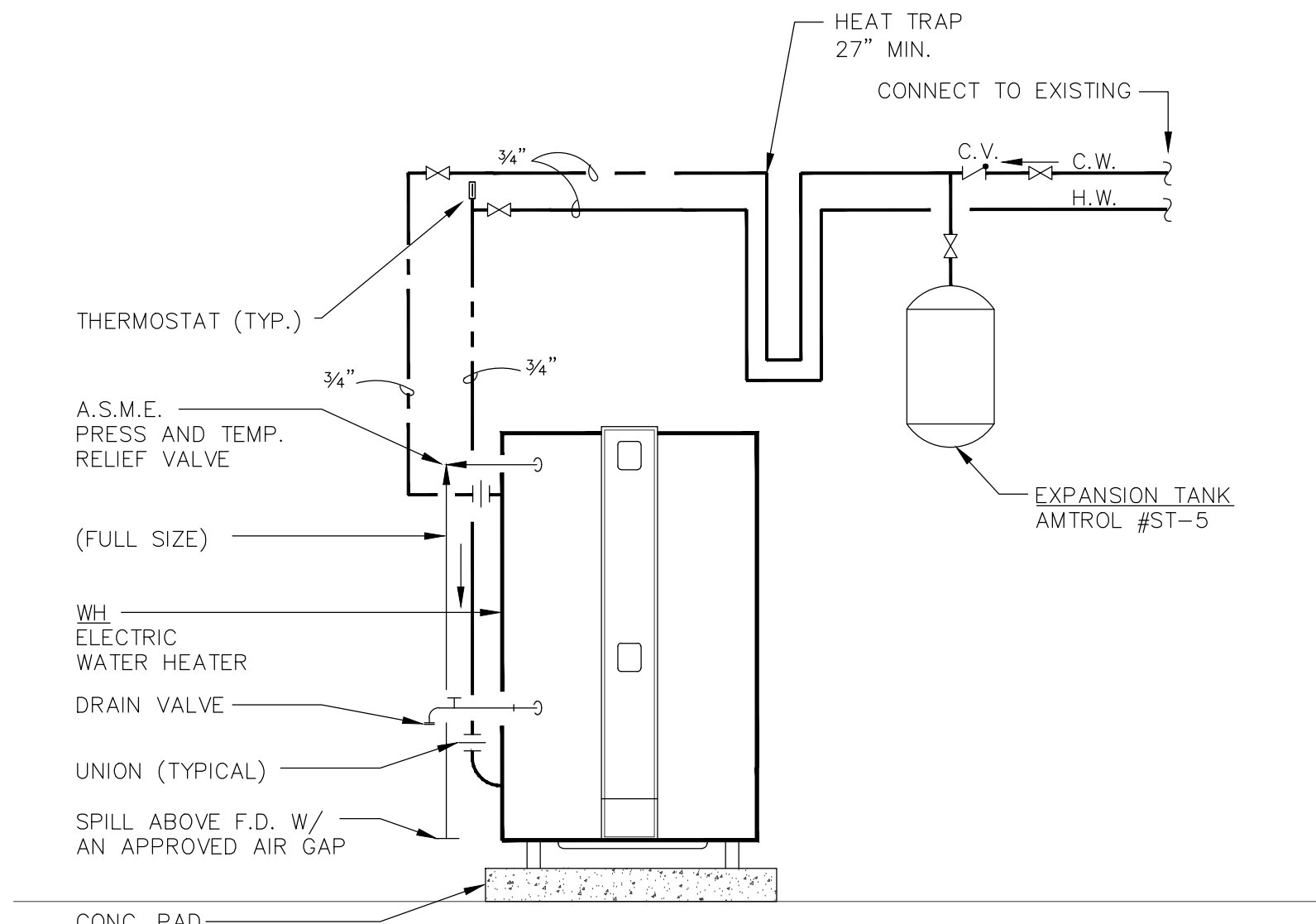
| | |
|----------|--------------------------|
| A.F.W.H. | ANTI-FREEZE WALL HYDRANT |
| A.D. | ACCESS DOOR |
| A.F.F. | ABOVE FINISHED FLOOR |
| B.F.P. | BACK FLOW PREVENTOR |
| CA | COMPRESSED AIR |
| CO. | CLEAN OUT |
| C.O.D.P. | CLEAN OUT DECK PLATE |
| D.I. | DRAINAGE INLET |
| EXIST. | EXISTING |
| E.W.C. | ELECTRIC WATER COOLER |
| F.A.I. | FRESH AIR INLET |
| FD. | FLOOR DRAIN |
| G.E. | GRADE ELEVATION |
| H.B. | HOSE BIBB |
| I.E. | INVERT ELEVATION |
| LAV. | LAVATORY |
| LDR. | LEADER |
| N.C. | NORMALLY CLOSED |
| N.I.C. | NOT IN CONTRACT |
| O.F. | OVERFLOW LEADER |
| O.R.D. | OVER-FLOW ROOF DRAIN |
| O.W. | OIL WASTE |
| R.D. | ROOF DRAIN |
| S. | SANITARY |
| SK. | SINK |
| S.S. | SERVICE SINK |
| ST | STORM DRAINAGE |
| T.E. | TOP ELEVATION |
| UR. | URINAL |
| VAC. | VACUUM |
| V.B. | VACUUM BREAKER |
| V.T.R. | VENT THRU ROOF |
| W. | WASTE |
| W.C. | WATER CLOSET |
| W.C.O. | WALL CLEAN OUT |

NOTE: NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT.

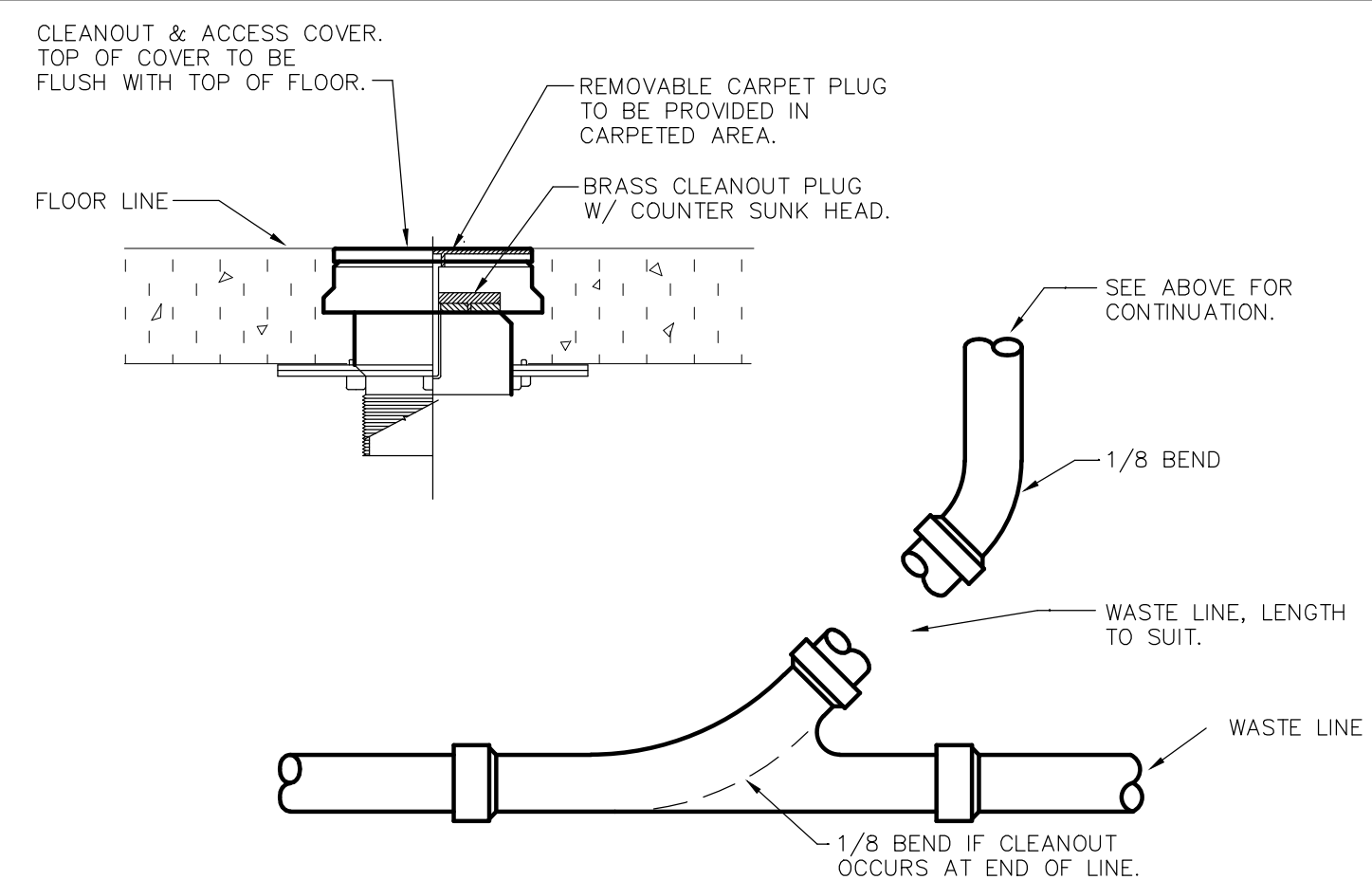
- SANITARY WASTE
- VENT LINE
- NATURAL GAS
- COLD WATER
- HOT WATER
- HOT WATER RETURN
- STORM SEWER
- COMPRESSED AIR
- ACID WASTE
- PUMP DISCHARGE
- OIL WASTE
- BALL VALVE
- CHECK VALVE
- BALANCING VALVE
- GAS PRESSURE REGULATOR
- CLEAN OUT DECK PLATE
- HORIZONTAL CLEANOUT
- GAS COCK
- GAS SOLENOID VALVE
- FLOOR DRAIN
- P TRAP
- TRAP
- PIPE DOWN, DROP & RISE
- PIPE UP
- TEE PLAN UP
- TEE PLAN DOWN
- KEY NOTE
- CONNECT TO EXISTING



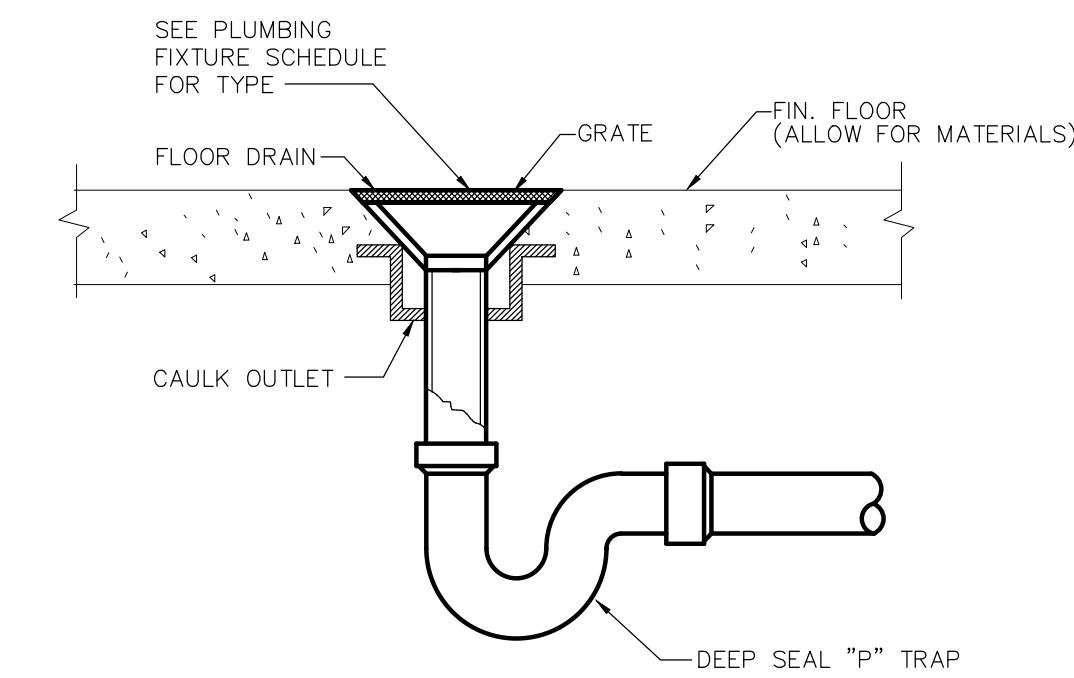
01
P.O.1 N.T.S. TYPICAL HANGER DETAIL



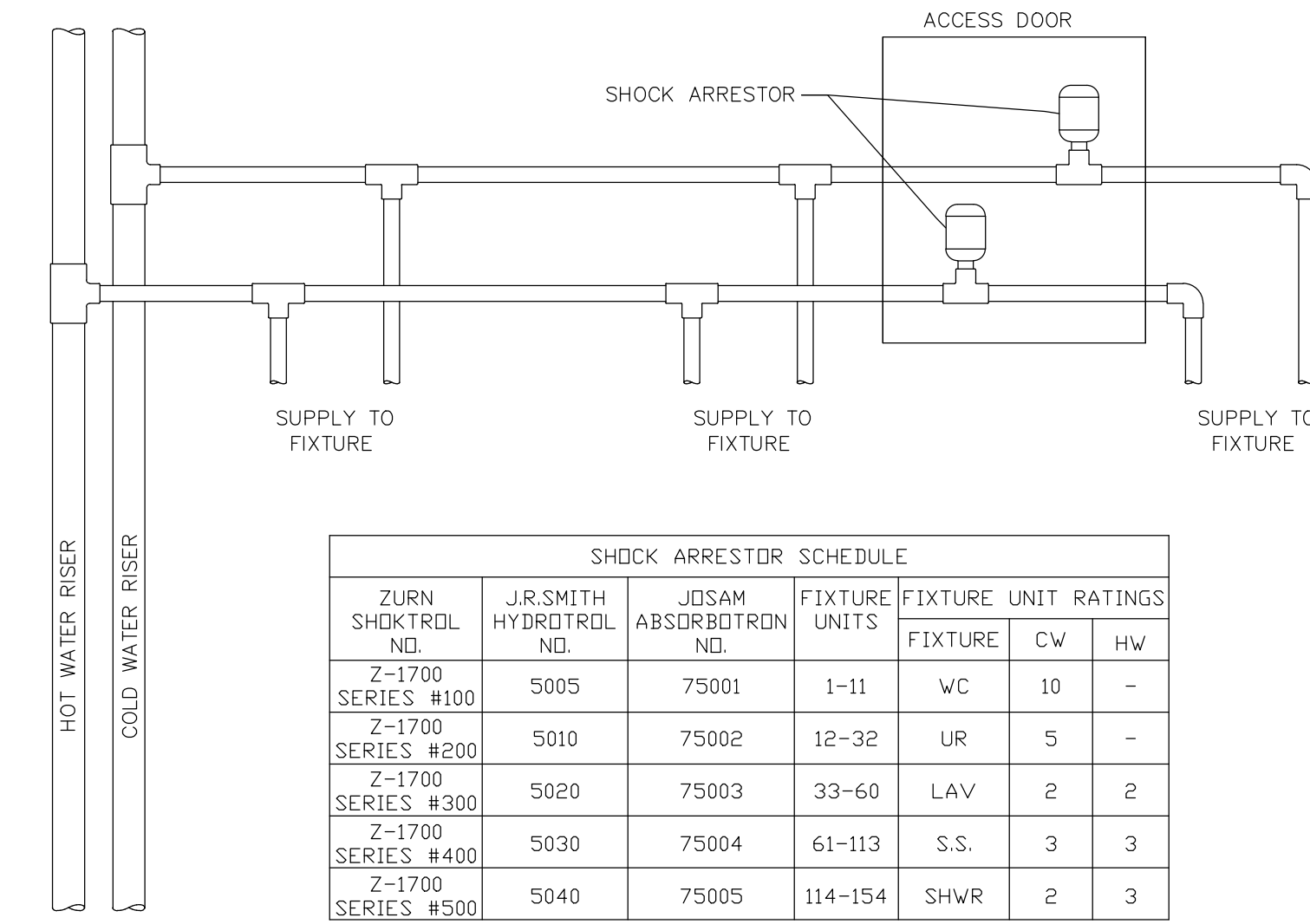
03
P.O.1 N.T.S. WATER HEATER INSTALLATION (WH-1)



02
P.O.1 N.T.S. TYPICAL FLOOR CLEANOUT DETAIL



04
P.O.1 N.T.S. TYPICAL FLOOR DRAIN DETAIL



- NOTES:
- ARRESTORS SHALL BE ACCESSIBLE FOR REPLACEMENT BY WAY OF ACCESS DOOR.
 - APPROVED ARRESTORS SHALL BE INSTALLED ON WATER DISTRIBUTION SYSTEMS IN WHICH QUICK CLOSING VALVES ARE INSTALLED. MULTIPLE ARRESTOR INSTALLATIONS SHALL BE AS PER P.D.I. STANDARDS.

05
P.O.1 N.T.S. SHOCK ARRESTOR DETAIL

| NO. | FIXTURE | MFG. | TYPE AND MODEL NO. | TRIM NO. | SUPPLY PIPE NO. | TRAP NO. | SUPPORT NO. | PIPE SIZES | | | | | REMARKS |
|------|----------------------|------------|--------------------|----------------------------|-----------------|----------|-------------|---------------|--------|--------|------|------|--|
| | | | | | | | | TRAP | WASTE | VENT | CW | HW | |
| P-1 | WATER CLOSET | WILLOUGHBY | ETF-1490-FM | SLOAN ROYAL 111-ESS-HW-TMO | - | - | - | 4" | 2" | 1" | - | - | ELONGATED OPEN FRONT SEAT. 1.28 G.P.F. HARDWIRED WITH TRANSFORMER. STAINLESS STEEL WATER CLOSET. |
| P-2 | URINAL | WILLOUGHBY | UW-1412-WO-FA | SLOAN ROYAL 186-ESS-HW-TMO | - | - | MIFAB | 2" | 2" | 1-1/2" | 1/2" | - | 0.125 G.P.F. HARDWIRED WITH TRANSFORMER. STAINLESS STEEL URINAL. |
| P-3 | LAVATORY (WALL HUNG) | WILLOUGHBY | HS-1014-96-HC | SLOAN EAF-225-0.5-ISM | McGUIRE | McGUIRE | MIFAB | 1-1/4x 1-1/2" | 1-1/2" | 1-1/2" | 1/2" | 1/2" | 0.5 G.P.M. STAINLESS STEEL LAVATORY. HARDWIRED & TRIM PLATE. ICC/ANSI A117.1-2009 COMPLIANT. |
| P-4 | MOP RECEPTOR | FIAT | MSBID2424 | 830-AA | - | "P"-TRAP | - | 3" | 3" | 1-1/2" | 3/4" | 3/4" | PROVIDE WITH MOP HANGER, HOSE & BRACKET. |
| P-5 | DRINKING FOUNTAIN | ELKAY | LK4409BF | - | - | - | - | 1-1/4x 1-1/2" | 1-1/2" | 1-1/2" | 1/2" | - | BI-LEVEL WALL MOUNTED, BOTTLE FILLING STATION, WITH STAINLESS STEEL ACCESS DOOR PANEL. |
| F.D. | FLOOR DRAIN | MIFAB | F1000-7-5 | - | - | "P"-TRAP | - | - | - | - | - | - | PROVIDE WITH SEDIMENT BUCKET AND MI-GUARD TRAP SEAL. |
| C.O. | CLEAN OUT DECK PLATE | MIFAB | C-1000-R | - | - | - | - | - | - | - | - | - | STAINLESS STEEL COVER. |

- NOTES:
- PROVIDE DEEP SEAL TRAPS ON ALL TOILET ROOM FLOOR DRAINS.
 - PROVIDE McGUIRE PRO-WRAP INSULATING KIT ON TRAPS AND HOT AND COLD WATER SUPPLIES TO ALL HANDICAPPED LAVATORIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF HANDICAPPED FIXTURES.
 - PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL COORDINATE FIXTURE TYPES AND COLORS WITH THE ARCHITECT.
 - REFER TO THE ARCHITECTS DRAWINGS FOR LOCATION AND QUANTITIES OF HANDICAPPED FIXTURES. ALL HANDICAPPED FIXTURES SHALL BE INSTALLED AS PER ICC/ANSI A117.1-2009 REQUIREMENTS.
 - ALL LAVATORIES AND HAND SINKS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVES (ASSE 1070). MAXIMUM TEMPERATURE SHALL BE SET TO 110°F.

| PLUMBING EQUIPMENT SCHEDULE | | | | | | | | | | | | |
|-----------------------------|--------------|----------|----------|-----------|-------------|---------------------------|-----------|------------|-------|-------|---------|----------------------------|
| GENERAL | | | | | DESIGN DATA | | | ELECTRICAL | | | REMARKS | |
| ITEM | SERVICE | MFR. | NO. | LOCATION | CAPACITY | PUMP HEAD | H.P./K.W. | R.P.M. | VOLTS | PHASE | | |
| WH-1 | WATER HEATER | AO SMITH | DRE-52-9 | SEE DWG'S | 50 GAL. | 37 G.P.H. @ 100 DEG. RISE | 9 K.W. | --- | - | 1 | - | PROVIDE WITH CONCRETE PAD. |

CERTIFICATE:



ARCHITECTURAL GROUP

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CERTIFICATE OF AUTHORIZATION NO. 2463204000 PAUL RIPSCH, N.J.P.E. LICENSE NUMBER: 4515880

PROJECT:

PICNIC SHELTER & RESTROOMS AT CHALLENGE GROVE PARK

DATE: 03/08/2020 PROJECT #: 20000A_02

FOR CAMDEN COUNTY PARK CHERRY HILL, NJ

SUBMISSION DATES:

FOR CODE APPROVAL

REVISIONS:

FOR BID JULY 10, 2020

DO NOT SCALE DRAWING

DRAWING TITLE:

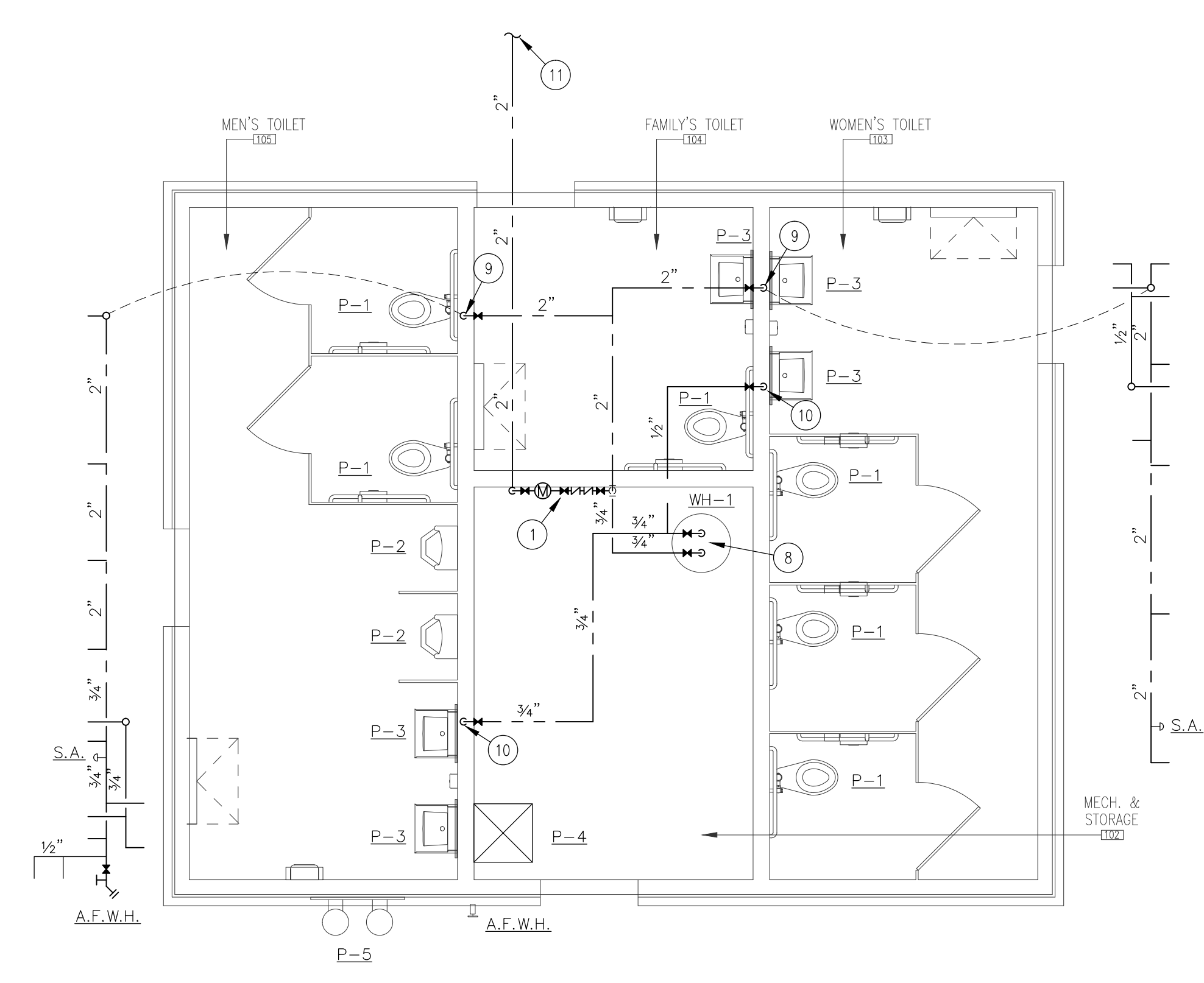
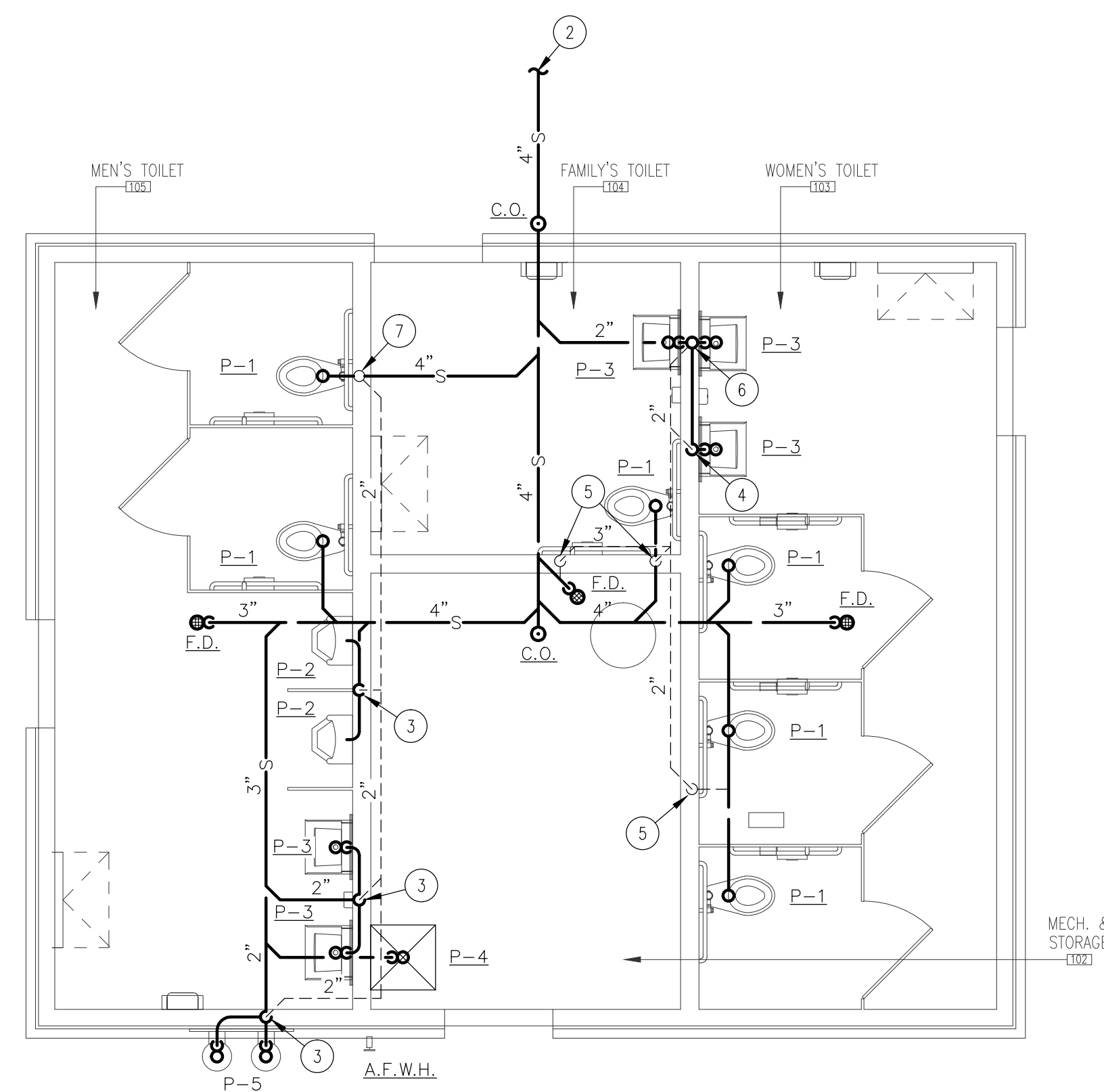
WALL SECTIONS PLUMBING GENERAL INFORMATION

COMMISSION NUMBER:

19M014

DRAWING NUMBER:

PO. 1



KEY NOTES

1. WATER METER AND BACKFLOW PREVENTION DEVICE, INSTALL IN ACCORDANCE WITH UTILITY REQUIREMENTS. PIPE ALL DRAINS TO FLOOR DRAIN.
2. 4" SANITARY SEWER MAIN. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
3. 2" W. DN. & 2" V. RISE.
4. 2" W. DROP & 2" V. RISE.
5. 2" V. RISE.
6. 2" W. DN. & 2" V.T.R.
7. 4" V.T.R.
8. H.&C.W. DROP & CONNECT TO WATER HEATER.
9. C.W. DROP.
10. H.W. DROP.
11. 2" DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

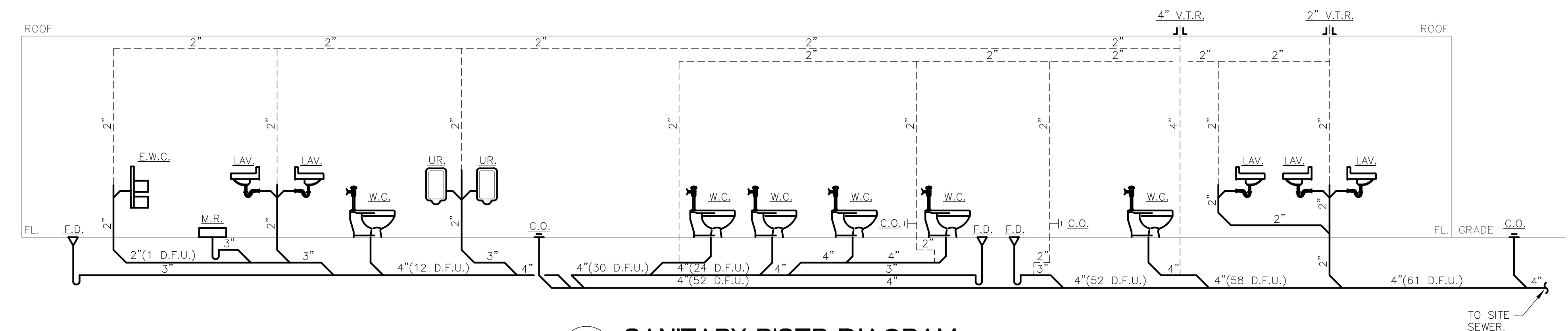
GENERAL NOTES

1. REFER TO SANITARY RISER DIAGRAM FOR PIPE SIZING AND VENTING REQUIREMENTS.
2. PROVIDE C.O.'S AT THE BASE OF ALL SANITARY STACKS.
3. PROVIDE THERMOSTATIC MIXING VALVES AT LAVATORIES/HAND SINKS IN ACCORDANCE WITH ASSE 107D.



01 PLUMBING FLOOR PLAN - WASTE AND VENT
P1.1 1/4"=1'-0"

02 PLUMBING FLOOR PLAN - WATER
P1.1 1/4"=1'-0"



03 SANITARY RISER DIAGRAM
P1.1 N.T.S.

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PROJECT:

PICNIC SHELTER &
RESTROOMS
AT
CHALLENGE GROVE PARK

FOR
CAMDEN COUNTY PARK
CHERRY HILL, NJ

SUBMISSION DATES:
FOR CODE APPROVAL _____
REVISIONS:

FOR BID JULY 10, 2020
DO NOT SCALE DRAWING

DRAWING TITLE:

WALL SECTIONS
PLUMBING
FLOOR PLAN

COMMISSION NUMBER:
19M014

DRAWING NUMBER:
P1.1

ELECTRICAL GENERAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NFPA, N.J.A.C. AND THE INTERNATIONAL BUILDING CODE.
- THE CONTRACTOR MUST HAVE THE CIVIL, ARCHITECTURAL, AND PLUMBING DRAWINGS FOR LOCATIONS OF EQUIPMENT AND CONTROL WIRING REQUIREMENTS. ONLY POWER FEEDER TO MECHANICAL EQUIPMENT ARE SCHEDULED ON THE ELECTRICAL DRAWINGS. FURNISH AND INSTALL ALL CODE REQUIRED DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT UNLESS SPECIFIED ON MECHANICAL DRAWINGS TO BE SUPPLIED BY MANUFACTURER. PROVIDE FUSED SWITCHES WHEREVER MANUFACTURER REQUIRES THEM.
- ALL TELEPHONE/DATA WIRING IS BY THE OWNER.
- PANELBOARD LOCKS SHALL BE KEYPED IN ACCORDANCE TO OWNER REQUIREMENTS.
- SEPARATE NEUTRALS SHALL BE RUN FOR ALL CIRCUITS.
- AS-BUILTS SHALL BE PROVIDED WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, INCLUDING BUT NOT LIMITED TO SINGLE-LINE OF ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLAN WITH LOCATIONS OF DISTRIBUTION EQUIPMENT AND AREAS SERVED BY THAT EQUIPMENT.(ASHRAE/IESNA STANDARD 90.1-1999.) ASBUILTS SHALL BE COMPLETED IN AUTOCAD 2007 FORMAT.
- O & M MANUALS MUST BE PROVIDED FOR THE ELECTRICAL DISTRIBUTION SYSTEM, INCLUDING BUT NOT LIMITED TO NAMEPLATE RATINGS, SCHEDULED MAINTENANCE, SPECIFIC EQUIPMENT SUPPLIED, NAMES AND ADDRESSES OF QUALIFIED SERVICE AGENCIES, COMPLETE NARRATIVE AND SCHEMATIC OF SYSTEM IN NORMAL OPERATION.(ASHRAE/IESNA STANDARD 90.1-1999.)

ELECTRICAL ABBREVIATION LEGEND

| ABBREVIATION | DESCRIPTION |
|--------------|----------------------------------|
| A | AMPERE |
| AC | ALTERNATING CURRENT |
| AF | ABOVE FINISHED FLOOR |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AHU | AIR HANDLING UNIT |
| ARF | ABOVE RAISED FLOOR |
| AWG | AMERICAN WIRE GAGE |
| C | CONDUIT |
| CAHU | COMPUTER AIR HANDLING UNIT |
| CB | CIRCUIT BREAKER |
| CH | ABOVE COUNTER HEIGHT |
| CKT | CIRCUIT |
| COGB | CENTRAL OFFICE GROUND BUS |
| CRAC | COMPUTER ROOM AIR CONDITIONER |
| DC | DIRECT CURRENT |
| D/S | DISCONNECT SWITCH |
| E | EXISTING |
| EC | ELECTRICAL CONTRACTOR |
| EMT | ELECTRICAL METALLIC TUBING |
| EPO | EMERGENCY POWER OFF PUSHBUTTON |
| ER | EXISTING TO BE RELOCATED |
| FACP | FIRE ALARM CONTROL PANEL |
| FGB | FRAME GROUND BUS |
| G | GROUND |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER |
| HP | HORSE POWER |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IG | ISOLATED GROUND |
| JB | JUNCTION BOX |
| KCMIL | THOUSAND CIRCULAR MILS |
| KVA | KILOVOLT - AMPERE |
| KW | KILOWATT |
| LP | LIGHTING PANEL |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |

ELECTRICAL SYMBOL LEGEND (DEVICE AND EQUIPMENT MOUNTING HEIGHTS ARE AS LISTED ON DRAWING AND/OR DESCRIBED IN SPECIFICATIONS UNLESS ITEMIZED BY ARCHITECTURAL DOCUMENTS.) (NOT ALL SYMBOLS ARE REPRESENTED ON DRAWINGS)

| SYMBOL | DESCRIPTION |
|--------|---|
| | CEILING OR PENDANT MOUNTED FLUORESCENT FIXTURE AND OUTLET. α = LIGHTING CONTROL ZONE. 3 = CIRCUIT NUMBER - TYPICAL FOR ALL FIXTURES. FIXTURE WIRED TO EMERGENCY CIRCUIT WITH BUILT IN BATTERY. U.O.N. |
| | LINEAR WALL WASH(UNSHADED SIDE DESIGNATES DIRECTION OF WASH) |
| | INDUSTRIAL OR STRIP FLUORESCENT FIXTURE. LIGHTING FIXTURE WITH BUILT IN BATTERY. |
| | RECESSED LIGHT FIXTURE, WITH BATTERY BACK-UP. |
| | PENDANT OR CEILING MOUNTED LIGHT FIXTURE |
| | WALL MOUNTED LIGHT FIXTURE, BATTERY BACK-UP. |
| | WALL WASH, EMERGENCY CIRCUIT OR BATTERY BACK-UP.(UNSHADED SIDE DESIGNATES DIRECTION OF WASH) |
| | CEILING MOUNTED EXIT SIGN, WALL MOUNTED EXIT SIGN. 90° TO BOTTOM OF SIGN OR CENTERED ON WALL AREA BETWEEN TOP OF DOOR AND CEILING. ARROWS AS INDICATED, SHADED AREA INDICATES FACE(S). |
| | LED EXIT SIGN WITH BATTERY PAK AND LOCAL EMERGENCY HEADS. |
| | (2) WEATHERPROOF EMERGENCY FLOOD LIGHTS (DUAL MOUNTED) |
| | FLOOD LIGHT |
| | LIGHT FIXTURE, A=LIGHTING FIXTURE TYPE, X=CIRCUIT NUMBER |
| | SINGLE POLE 20A, TOGGLE TYPE SWITCH MOUNTED 4'-0" AFF TO TOP. SUBLETTER "Q" DENOTES FIXTURE CONTROLLED. U.O.N. |
| | THREE WAY SWITCH |
| | DUPLEX CONVENIENCE RECEPTACLE 20A-125V, MOUNTED 1'-4" A.F.F. TO CENTER. U.O.N. 3=CIRCUIT NUMBER. CH=ABOVE COUNTER HEIGHT AT 44" MAX TO ABOVE COUNTERS WHICH ARE 20"-25" DEEP. U.O.N. CP=CHILD PROOF. |
| | DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT. |
| | GROUND FAULT RECEPTACLE |
| | DOUBLE DUPLEX RECEPTACLE (QUAD) |
| | JUNCTION BOX, CEILING OR WALL MOUNTED AS NOTED, ELECTRICAL CONTRACTOR TO MAKE ALL REQUIRED CONNECTIONS TO DESIGNATED EQUIPMENT. |
| | PANEL BOARD (LIGHTING OR RECEPTACLE) |
| | GROUND ROD |
| | ELECTRIC METER |
| | EXPOSED CONDUIT OR CABLE |
| | CONCEALED CONDUIT OR CABLE |
| | DISCONNECT SWITCH |
| | OCCUPANCY SENSOR |

CERTIFICATE:



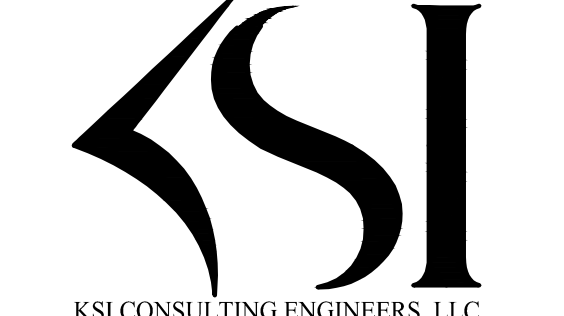
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PROJECT:
PICNIC SHELTER & RESTROOMS AT CHALLENGE GROVE PARK
DATE: 06/19/2020 PROJECT #: 200804_02
FOR CAMDEN COUNTY PARK CHERRY HILL, NJ

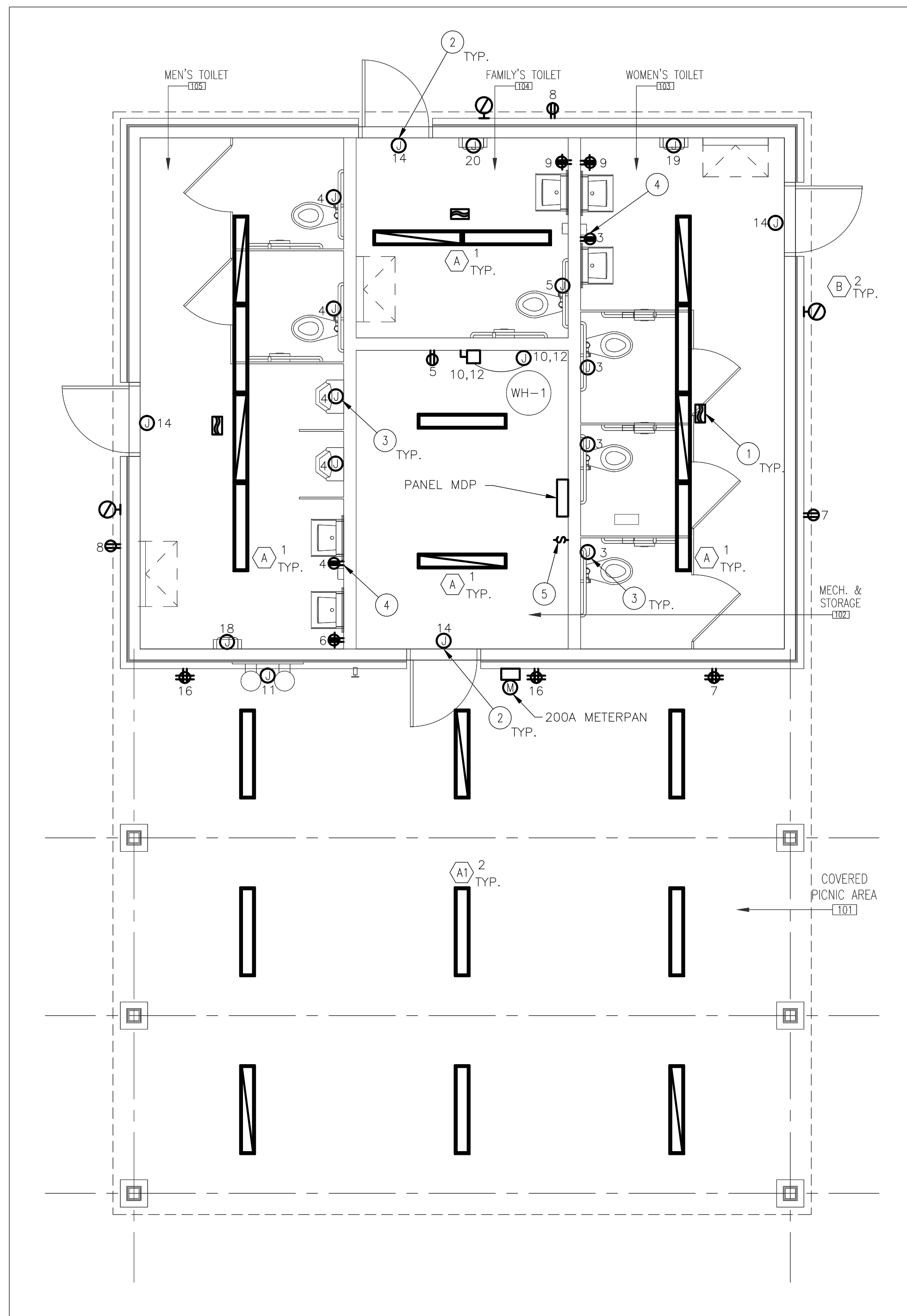
SUBMISSION DATES:
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REVISIONS:

FOR BID JULY 10, 2020
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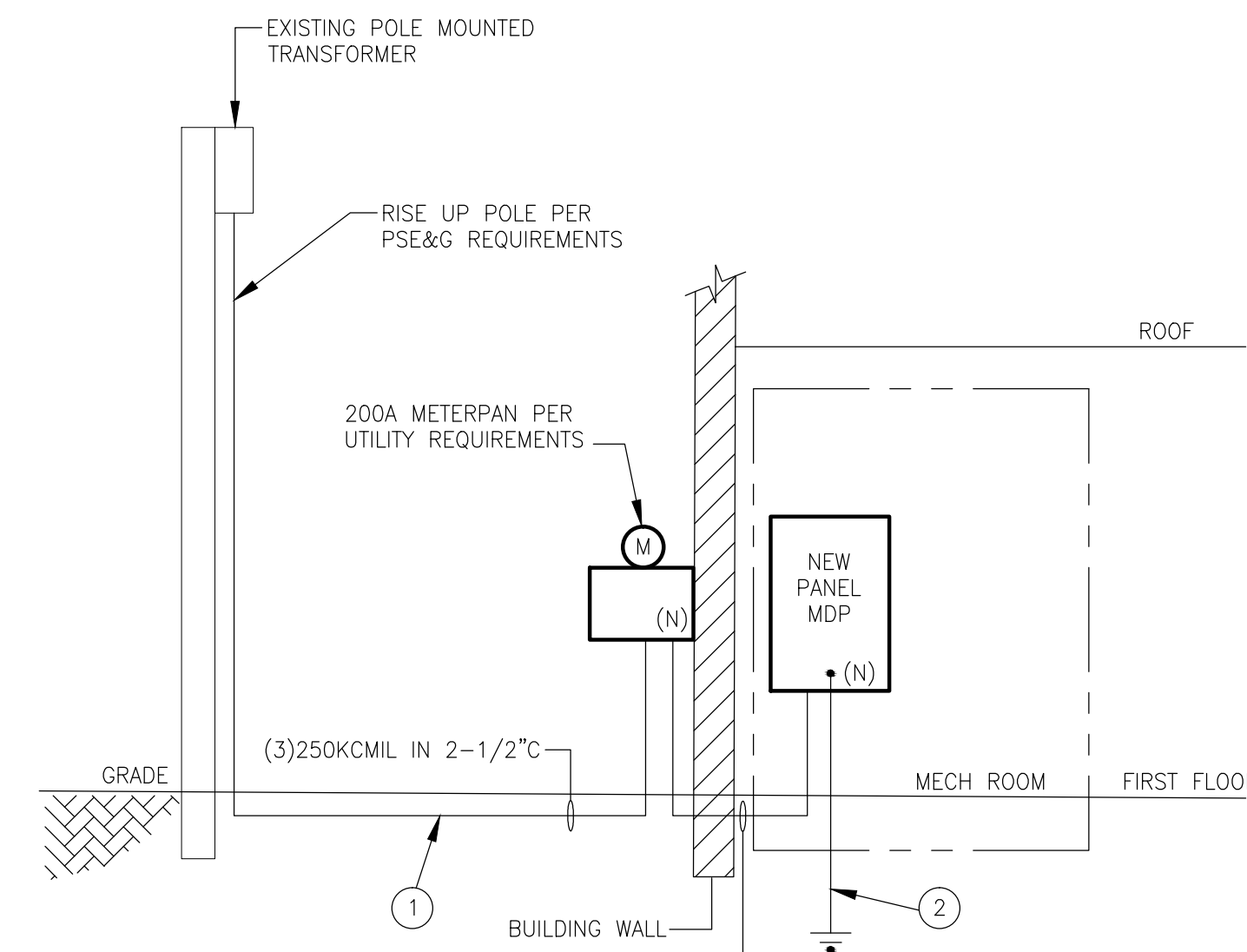
DRAWING TITLE:
WALL SECTIONS
ELECTRICAL GENERAL INFORMATION

COMMISSION NUMBER:
19M014

DRAWING NUMBER:
EO. 1

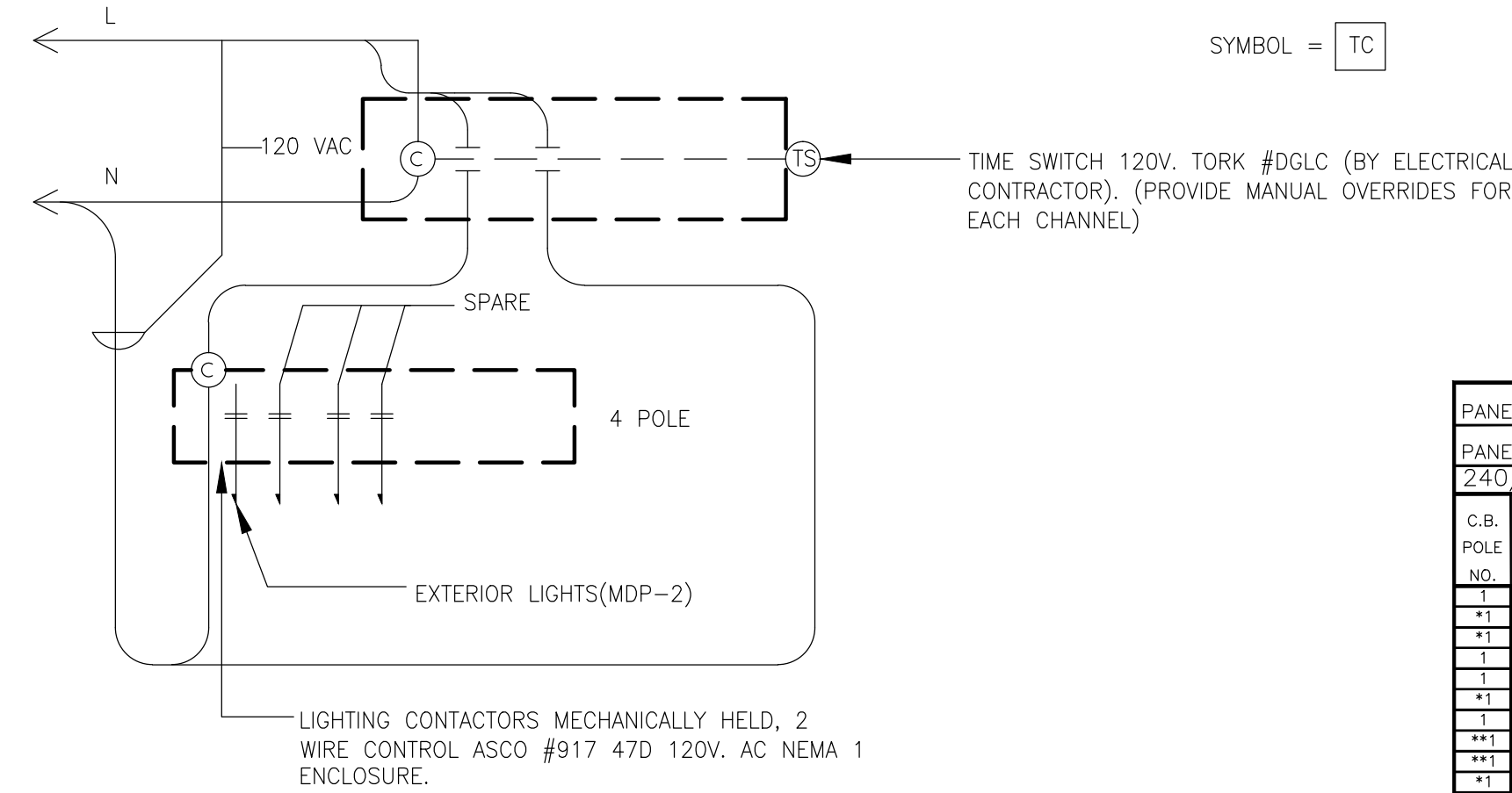


01 ELECTRICAL FLOOR PLAN
E1.1 1/4"=1'-0"



GENERAL NOTES:
1. NEW CONDUCTORS AND CONDUIT PROVIDED AND INSTALL APPROXIMATELY 250' OF CONDUCTORS AND CONDUIT. COORDINATE CONNECTION TO UTILITY TRANSFORMERS WITH PSE&G.
2. NEW SERVICE GROUND.

02 ELECTRICAL RISER DIAGRAM
E1.1 NTS

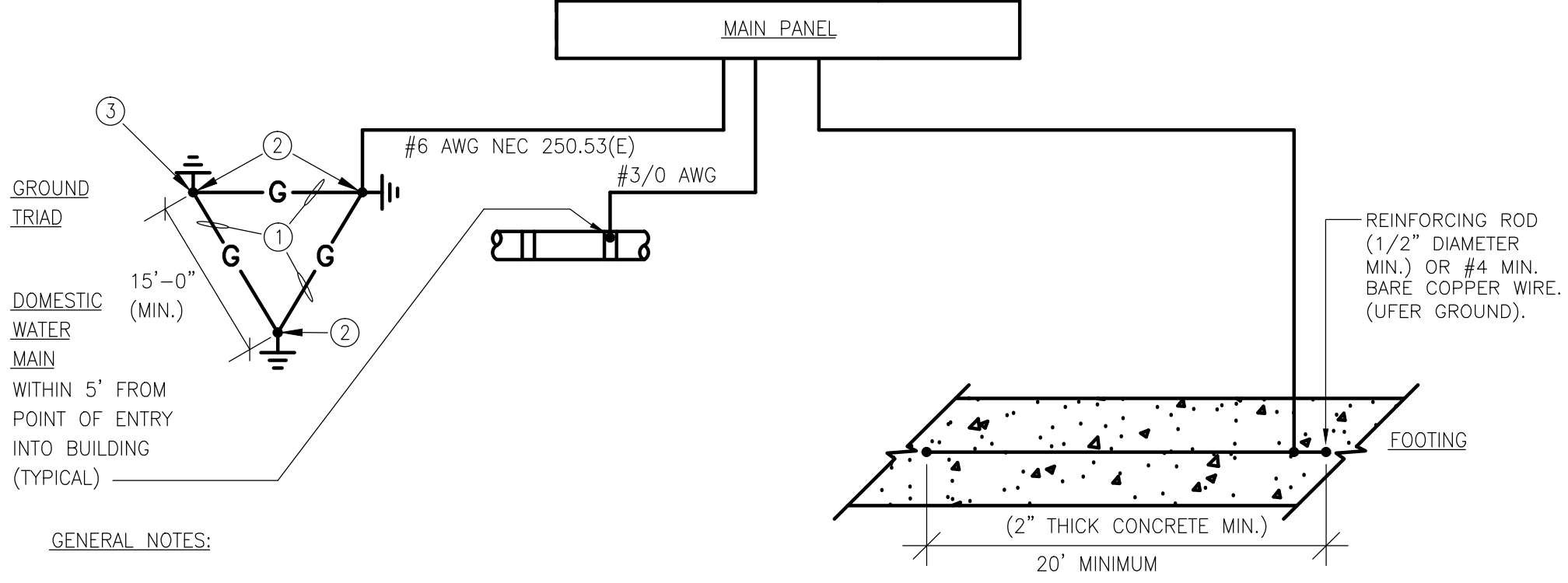


NOTES:
1. COORDINATE FINAL PROGRAMMING WITH OWNER PRIOR TO CLOSE-OUT.

03 EXTERIOR LIGHTING CONTROL DIAGRAM
E1.1 NTS

| PANEL MDP | | MECHANICAL ROOM | | NEW PANEL | | 200A MAIN CIRCUIT BREAKER | |
|-----------|-----------|-------------------------------|-------|---------------|---------|---------------------------|----------|
| 240/120V | | VOLTS, 1 PHASE, 3 WIRE | | 200A BUS SIZE | | NUMBER OF POLES | |
| C.B. POLE | C.B. LOAD | LOAD DESCRIPTION | CR NO | FDR DATA | PHASE A | PHASE B | FDR DATA |
| 1 | 200 | INTERIOR LIGHTING | 1 | 12 12 3/4 | 1362 | | 2 |
| 1 | 200 | WOMEN'S TOILET POWER | 3 | 12 12 3/4 | 1440 | | 4 |
| 1 | 200 | FAMILY'S TOILET POWER | 5 | 12 12 3/4 | 560 | | 6 |
| 1 | 200 | EXTERIOR GFT BECS | 7 | 12 12 3/4 | 720 | | 8 |
| 1 | 200 | WOMEN'S/FAMILY TOILET GFT | 9 | 12 12 3/4 | 3300 | | 10 |
| 1 | 200 | WATER COOLER | 11 | 12 12 3/4 | 3500 | | 12 |
| 1 | 200 | DRIP CONTROLLER/COND PUMP | 13 | 12 12 3/4 | 400 | | 14 |
| 1 | 200 | EXISTING (HAND/CONTROL BOARD) | 15 | 12 12 3/4 | 360 | | 16 |
| 1 | 200 | EXISTING (HAND/CONTROL BOARD) | 17 | 12 12 3/4 | 800 | | 18 |
| 1 | 200 | WOMEN'S TOILET TRANS DRYER | 19 | 12 12 3/4 | 1600 | | 20 |
| 2 | 200 | WATER | 21 | 12 12 3/4 | 1640 | | 22 |
| 1 | 200 | SPARE | 23 | | 4992 | | 24 |
| 1 | 200 | SPARE | 25 | | 0 | | 26 |
| 1 | 200 | SPARE | 27 | | 0 | | 28 |
| 1 | 200 | SPARE | 29 | | 0 | | 30 |
| 1 | 200 | SPARE | 31 | | 0 | | 32 |
| 1 | 200 | SPARE | 33 | | 0 | | 34 |
| 1 | 200 | SPARE | 35 | | 0 | | 36 |
| 1 | 200 | SPARE | 37 | | 0 | | 38 |
| 1 | 200 | SPARE | 39 | | 0 | | 40 |
| 1 | 200 | SPARE | 41 | | 0 | | 42 |

06 ELECTRICAL PANEL SCHEDULE
E1.1 1/4"=1'-0"



GENERAL NOTES:
1. THE GROUNDING SYSTEM IS DESIGNED FOR A MAXIMUM OF 25 OHMS WHEN MEASURED FROM THE GROUND BUS TO THE SINGLE POINT GROUND LOCATED OUTSIDE OF THE BUILDING ENVELOPE.
2. GROUNDING SHOWN SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE N.E.C. ARTICLE 250.
3. BOND ACROSS WATER METERS, ETC.

KEY NOTES:
1. 3/0 COPPER WIRE.
2. CADCWELD CONNECTION.
3. COPPERCLAD GROUND ROD, 3/4"x10' LOCATED 18" MINIMUM BELOW FINISHED GRADE, (TYPICAL) U.O.N.

04 TYPICAL GROUNDING SYSTEM FROM SERVICE ENTRANCE
E1.1 NTS

| TYPE | DESCRIPTION | MANUFACTURER | CATALOG # | VOLT | LAMP # | CATALOG # | MOUNTING | BALLAST/DRIVER | CONTROL |
|------|--|--------------|--|------|--------|-----------|----------|----------------|-----------|
| A | 6"x4' LINEAR LED WITH DOWNLIGHT SURFACE MOUNTED COORDINATE FINISH WITH ARCHITECT | KENNAL | MLHA12-48-R-XX-CP-45L35K-DCC-1-120V-EL | 120 | - | - | SURFACE | ELECTRONIC | OCCUPANCY |
| A1 | 6"x4' LINEAR LED WITH DOWNLIGHT SURFACE MOUNTED COORDINATE FINISH WITH ARCHITECT | KENNAL | MLHA12-48-R-XX-CP-45L40K-DCC-1-120V-EL | 120 | - | - | SURFACE | ELECTRONIC | OCCUPANCY |
| B | 11" ROUND LED AREA LIGHT COORDINATE FINISH WITH ARCHITECT | KENNAL | MR13 EL-PP-XX-10L40K-120-LEL-SA | 120 | - | - | SURFACE | ELECTRONIC | TIMECLOCK |

LIGHTING FIXTURE NOTES:
1. EMERGENCY FIXTURES SHALL BE CAPABLE OF ILLUMINATION OF LAMPS FOR 90 MINUTES AND SHALL BE WIRED AHEAD OF LOCAL SWITCHING(BODINE BALLASTS WHERE APPLICABLE).
2. PROVIDE ALL NECESSARY MOUNTING HARDWARE.
3. PROVIDE UNIVERSAL MOUNT CANOPY WITH CEILING MOUNTED EXIT SIGNS.
4. PROVIDE ACCESSORIES FOR SEISMIC CONSIDERATIONS PER LOCAL CODES.
5. PROVIDE EMERGENCY BALLAST OPTION FOR FIXTURES AS INDICATED IN DRAWINGS.
6. CONFIRM ALLOWABLE MOUNTING SPACE ABOVE CEILING PRIOR TO ORDERING FIXTURES

05 ELECTRICAL LIGHTING FIXTURE SCHEDULE
E1.1 1/4"=1'-0"

- KEY NOTES**
- CEILING MOUNTED OCCUPANCY SENSOR SHALL BE MODEL CMPDT-9 AS MANUFACTURED BY SENSORSWITCH OR APPROVED EQUAL. CONTRACTOR SHALL PROVIDE (2) POWER PACKS AND WIRE COMPLETE PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE CONNECTION OF SECOND POWER PACK TO MECHANICAL UNIT WITH MECHANICAL CONTRACTOR.
 - JUNCTION BOX PROVIDED FOR DOOR MAG-LOCK POWER OVER EACH EXTERIOR DOOR. TYPICAL.
 - JUNCTION BOX PROVIDED FOR TOILET/ARINAL POWER. COORDINATE ELECTRICAL CONNECTION WITH PLUMBING CONTRACTOR. TYPICAL.
 - JUNCTION BOX PROVIDED FOR LAVATORY POWER. COORDINATE ELECTRICAL CONNECTION WITH PLUMBING CONTRACTOR.
 - SWITCH PROVIDED FOR DOOR MAG-LOCK CONTROL.

- GENERAL NOTES**
- ALL NEW DEVICES SHALL BE CIRCUITED TO PANEL MDP UNLESS OTHERWISE NOTED.
 - COORDINATE THE LOCATION OF ALL DEVICES WITH THE OWNER PRIOR TO ROUGH-IN.
 - COORDINATE DISCONNECTION AND RECONNECTION OF ELECTRICAL SERVICE WITH PSE&G.
 - INSTALL NEW SERVICE PER PSE&G REQUIREMENTS.

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PROJECT:

PICNIC SHELTER &
RESTROOMS
AT
CHALLENGE GROVE PARK

FOR
CAMDEN COUNTY PARK
CHERRY HILL, NJ

SUBMISSION DATES:
FOR CODE APPROVAL

REVISIONS:

FOR BID JULY 10, 2020
DO NOT SCALE DRAWING

DRAWING TITLE:

WALL SECTIONS
ELECTRICAL FLOOR PLAN,
DETAILS, & SCHEDULES

COMMISSION NUMBER:
19M014

DRAWING NUMBER:
E1.1