BERKELEY PARK
RESTROOM FACILITIES

MARK LUSK ARCHITECTURE PLLC

128 WOODBURN DR
SWANNANOA, NC 28778

828.808.9757

MLARCHITECTURE@CHARTER.NET

2018 APPENDIX B:
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

NAME OF PROJECT: BERKELEY PARK RESTROOM FACILITIES
ADDRESS: HENDERSON COUNTY SPORTS COMPLEX AT BERKELEYPARK

OWNER/AUTHORIZED AGENT: BRIAN COTTON
PHONE #: 828.845.5703
E-MAIL: bcotton@hendersoncountync.gov

OWNED BY: COUNTY
CODE ENFORCEMENT JURISDICTION: HENDERSON COUNTY

CONTACT:
ARCHITECTURAL:
FIRM: MARK LUSK ARCHITECTURE, LLC.
NAME: MARK LUSK, ARCHITECT
LICENSE #: 8685
TELEPHONE #: 828.808.9757
E-MAIL: MLARCHITECTURE@CHARTER.NET

ELECTRICAL, PLUMBING, & MECHANICAL:
FIRM: TILDENWHITE ASSOC.
NAME: TILDEN WHITE , PE
LICENSE #: 028953
TELEPHONE #: 828.301.6467
E-MAIL: TILDEN@TILDENWHITE.COM

STRUCTURAL:
FIRM: DUNN STRCTURAL ENGINEERING, PLLC
NAME: PAT DUNN , PE
LICENSE #: 16576
TELEPHONE #: 828.775.5110
E-MAIL: DUNNSTRUCTURAL@GMAIL.COM

2018 NORTH CAROLINA BUILDING CODE
NEW BUILDING

BASIC BUILDING DATA:
CONSTRUCTION TYPE: V-B
SPRINKLERS: NO
STANDPIPES: NO
FIRE DISTRICT: NO
SPECIAL INSPECTION REQUIRED: NO

GROSS BUILDING AREA TABLE:

TICKET OFFICE/ RESTROOMS :	NEW (SQ F T):	1,107
PICNIC SHELTER/ RESTROOMS :	NEW (SQ F T):	1,485
RESTROOMS (@ EXISTING STORAGE) :	NEW (SQ F T):	200
- EXISTING STORAGE BLDG:	NEW SLAB (SQ FT):	840

OCCUPANCY:
PRIMARY OCCUPANCY CLASSIFICATION: ASSEMBLY A-4

DESIGN LOADS:
IMPORTANCE FACTORS: SNOW (IS) 15

LIVE LOADS: ROOF 20 PSF

WIND LOAD: ULTIMATE WIND SPEED 115 MPH (ASCE-7)

EXPOSURE CATEGORY C

OWNER

HENDERSON COUNTY, NORTH CAROLINA

CONTACTS

OWNER REPRESENTATIVE

BRIAN COTTON
CAPITAL PROJECT SUPERINTENDENT
828.845.5703

ARCHITECT

MARK LUSK ARCHITECTURE PLLC
128 WOODBURN DRIVE
SWANNANOA, NC 28778
828.808.9757

ENGINEERS

TILDEN WHITE AND ASSOCIATES PLLC
58½ N. LEXINGTON AVENUE
ASHEVILLE, NC 28801
828.301.6467

DUNN STRUCTURAL ENGINEERING, PLLC
125 S. LEXINGTON AVE
SUITE 308
ASHEVILLE, NC 28801
828.775.5110

CADD

ALISON ROGNAS
6882 FOLKESTONE ROAD
APPLE VALLEY, MN 55124
954.531.3991

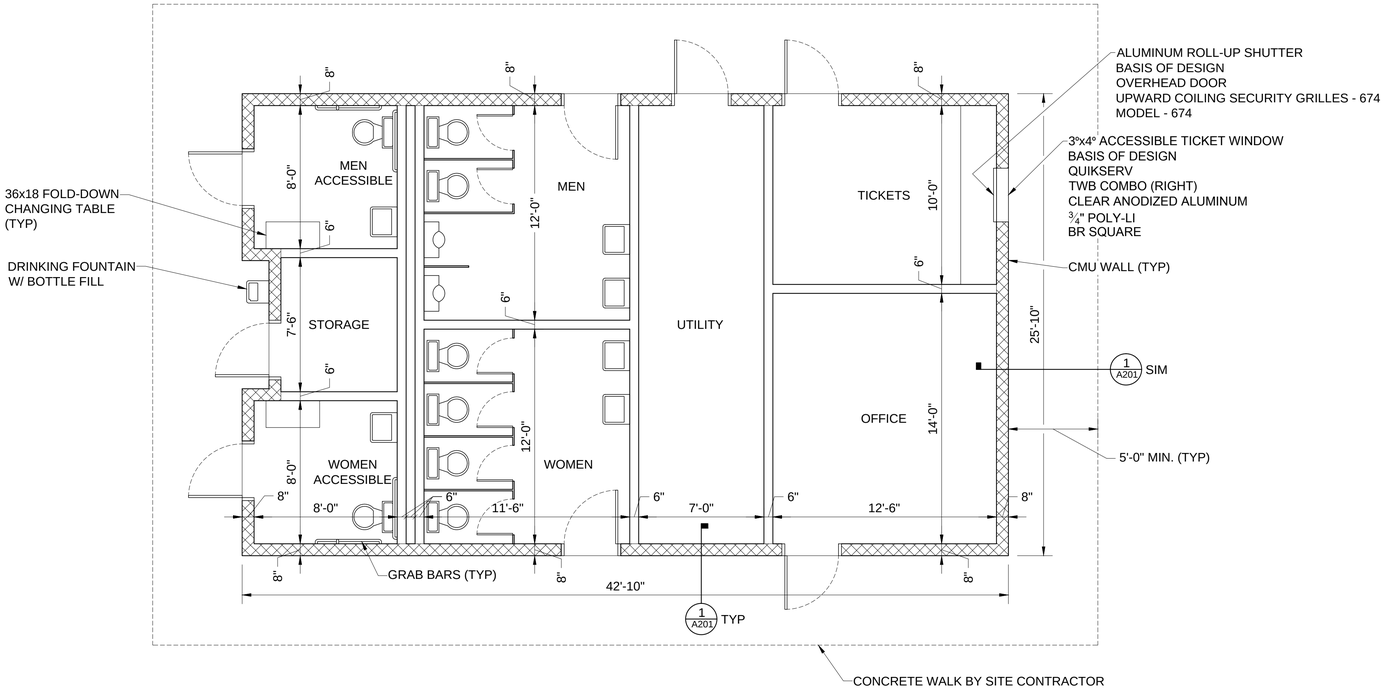
LIST OF DRAWINGS

BERKELEY PARK RESTROOM FACILITIES

Project Number: 26002
Checked:
Drawn: A. Rognas
Date: 3/18/26
Revisions:

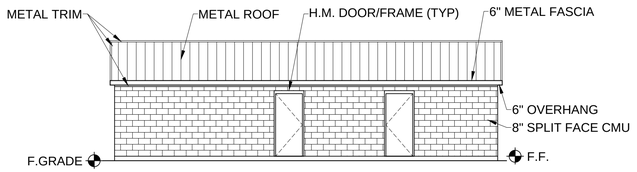
COVER SHEET

T101

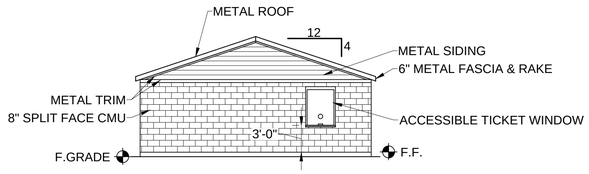


PROJECT NORTH

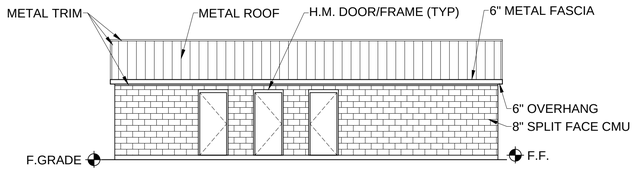
FLOOR PLAN
SCALE: ¼" = 1'-0"



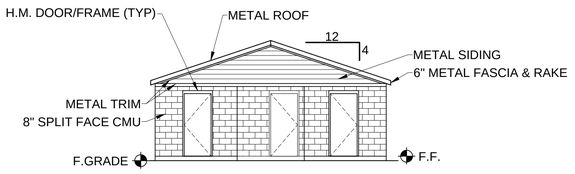
SOUTH ELEVATION
SCALE: ⅛" = 1'-0"



EAST ELEVATION
SCALE: ⅛" = 1'-0"



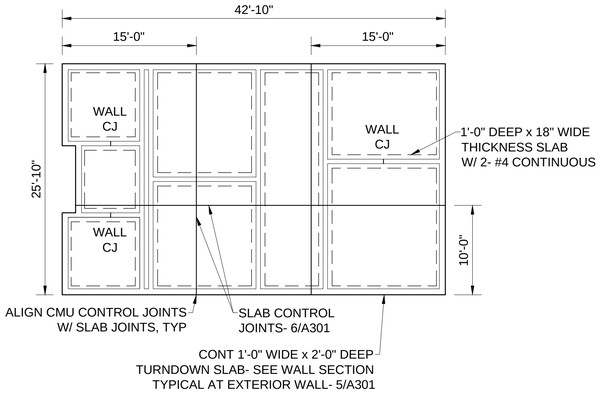
NORTH ELEVATION
SCALE: ⅛" = 1'-0"



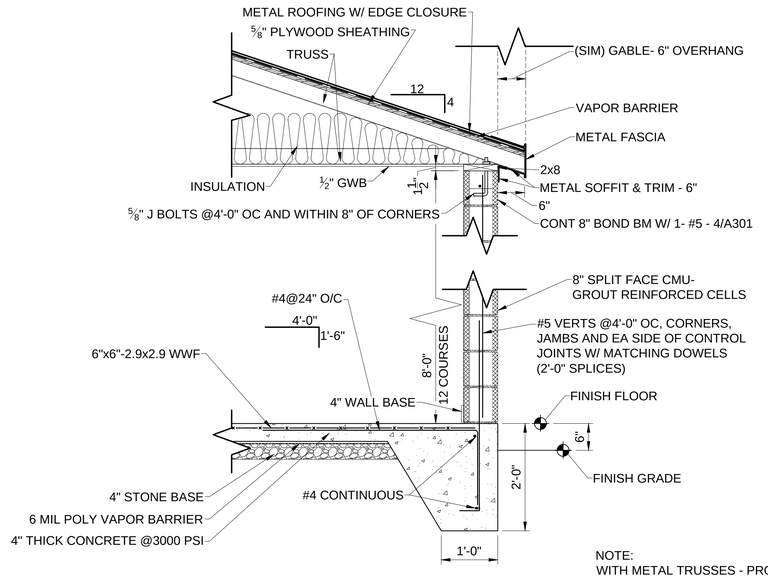
WEST ELEVATION
SCALE: ⅛" = 1'-0"

FINISHES:

- CMU WALLS- PAINT W/ VINYL BASE
- GWB CEILINGS- PAINT
- CONC. FLOORS- EPOXY COATING (EXCEPT STORAGE/UTILITY)- ALTERNATE NO. 1
- DOORS/FRAMES - SEE DETAILS 1-2/A204
  - H.M. 3'x7' PAINT
- WATERCLOSET GRAB BARS SHALL BE ACCESSIBLE COMPLIANT:
  - 36" REAR- 36" AFF 12" FROM WALL
  - 42" SIDE- 36" AFF 12" FROM WALL
  - 18" VERTICAL- 40" AFF 40" FROM WALL
- EXTERIOR CMV SHALL BE COLOR SPLIT FACE UNITS



FOUNDATION PLAN
SCALE: ⅛" = 1'-0"



NOTE:
WITH METAL TRUSSES - PROVIDE 3/8" TAPCON ANCHORS AT EA TRUSS. DELETE WOOD PLATE AND J BOLTS

1 WALL SECTION
SCALE: ¼" = 1'-0"

MARK LUSK ARCHITECTURE PLLC

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MARK LUSK ARCHITECTURE PLLC REGISTERED ARCHITECTURAL COMPANY 52786 NORTH CAROLINA SWANNANOA, NC

MARK S. LUSK REGISTERED ARCHITECT 8685 3.17.26 NORTH CAROLINA SWANNANOA, NC

BERKELEY PARK RESTROOM FACILITIES

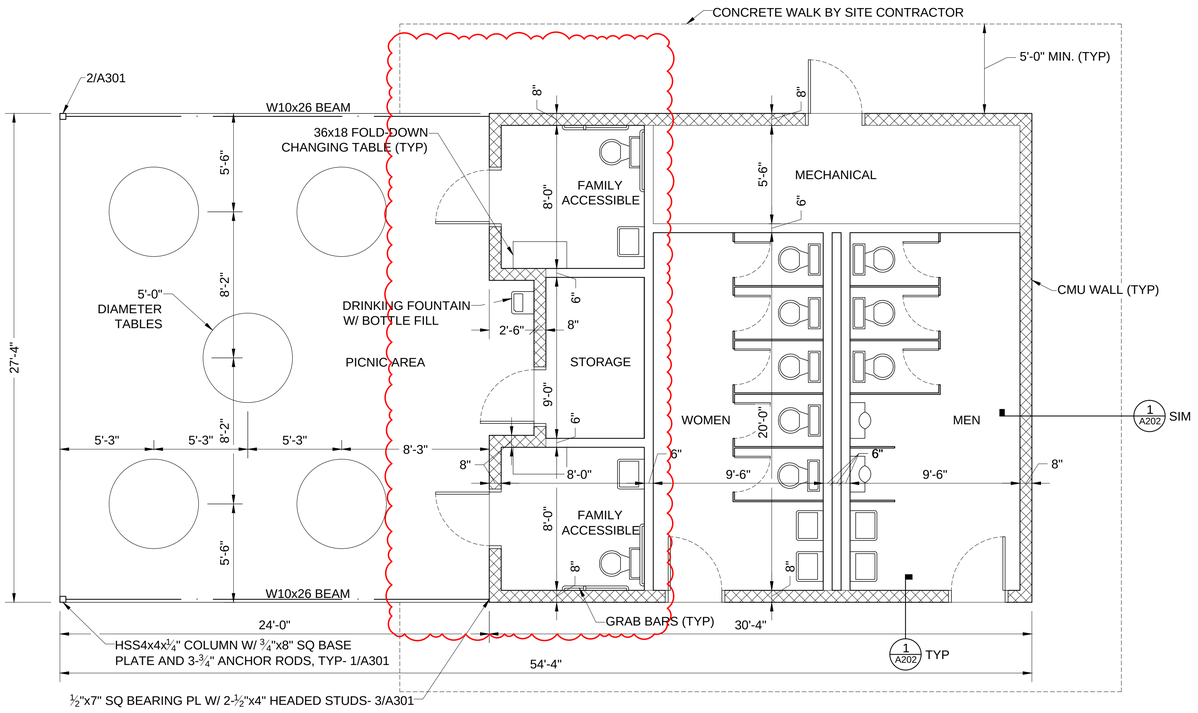
Project Number: 26002
Checked:
Drawn: A. Rognas
Date: 3/18/26
Revisions:

NORTH CAROLINA PROFESSIONAL SEAL 16576 ENGINEER PATRICK THOMAS DUNN
3/17/2026

ENGINEER SEAL AFFIXED HERE FOR THE DESIGN OF THE STRUCTURALCOMPONENTS INCLUDED ON THIS DRAWING.
Dunn Structural Engineering
125 S Lexington Ave Suite 308
Asheville, NC 28801
828.775.5110

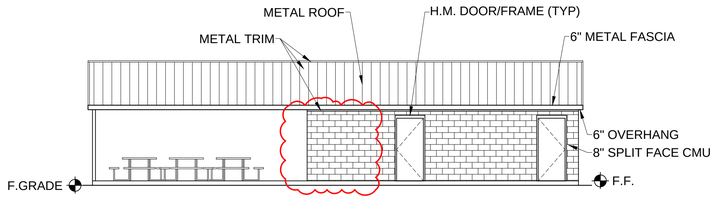
TICKET OFFICE/ RESTROOMS

A201

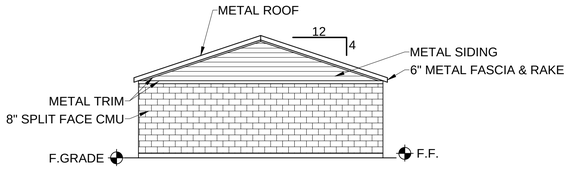


FLOOR PLAN
SCALE: ¼" = 1'-0"

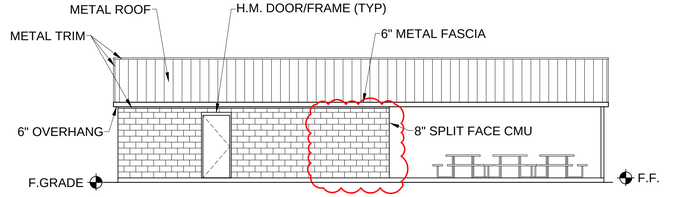
PROJECT NORTH



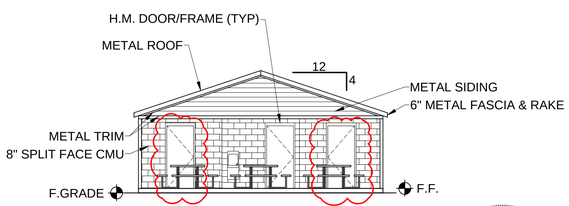
SOUTH ELEVATION
SCALE: ⅛" = 1'-0"



EAST ELEVATION
SCALE: ⅛" = 1'-0"



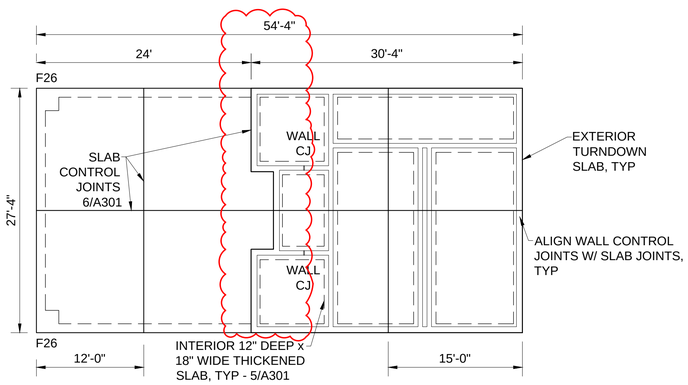
NORTH ELEVATION
SCALE: ⅛" = 1'-0"



WEST ELEVATION
SCALE: ⅛" = 1'-0"

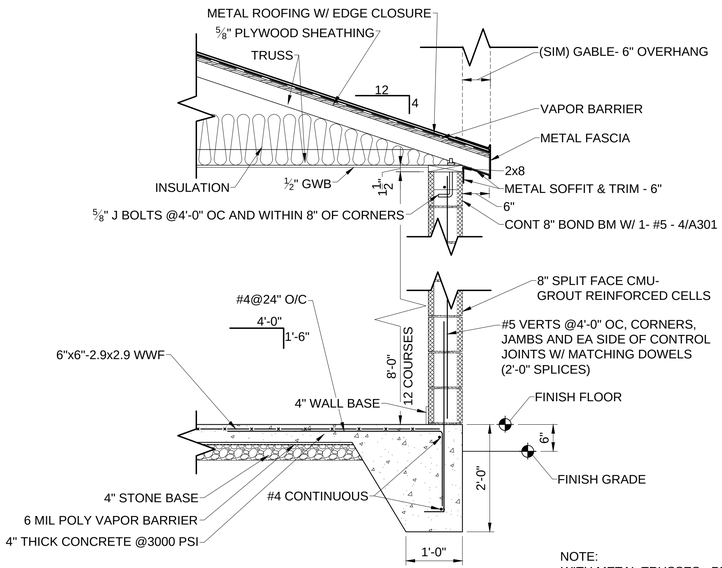
FINISHES:

- CMU WALLS- PAINT W/ VINYL BASE
- GWB CEILINGS- PAINT
- CONC. FLOORS- EPOXY COATING (EXCEPT STORAGE/UTILITY)- ALTERNATE NO.1
- DOORS/FRAMES - SEE DETAILS 1-2/A204
  - H.M. 3⁰x7⁰ PAINT
- WATERCLOSET GRAB BARS SHALL BE ACCESSIBLE COMPLIANT:
  - 36" REAR- 36" AFF 12" FROM WALL
  - 42" SIDE- 36" AFF 12" FROM WALL
  - 18" VERTICAL- 40" AFF 40" FROM WALL
- EXTERIOR CMU SHALL BE COLOR SPLIT FACE UNITS



F26 FOOTING: 2'-6" SQUARE x 2'-0" THICK
REINFORCE W/ 3- #5 EA WAY

FOUNDATION PLAN
SCALE: ⅛" = 1'-0"



NOTE:
WITH METAL TRUSSES - PROVIDE 3/8" TAPCON ANCHORS AT EA TRUSS. DELETE WOOD PLATE AND J BOLTS

① WALL SECTION
SCALE: ¾" = 1'-0"

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828.808.9757

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MARK S. LUSK REGISTERED ARCHITECT 8685 9.17.24 NORTH CAROLINA SWANNANOA, NC

BERKELEY PARK RESTROOM FACILITIES

Project Number: 26002
Checked:
Drawn: A. Rognas
Date: 3/18/26
Add 1: 3/25/26

PICNIC SHELTER/ RESTROOMS

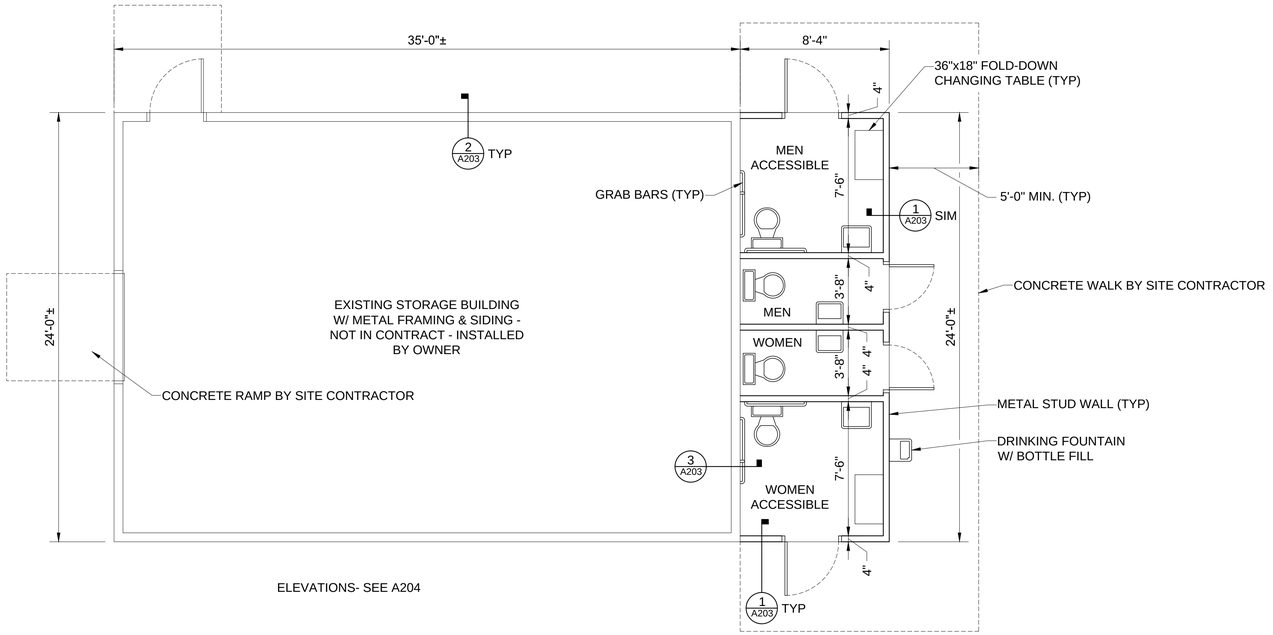
A202

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 16576 PATRICK THOMAS DUNN

3/17/2026

ENGINEER SEAL AFFIXED HERE FOR THE DESIGN OF THE STRUCTURALCOMPONENTS INCLUDED ON THIS DRAWING.

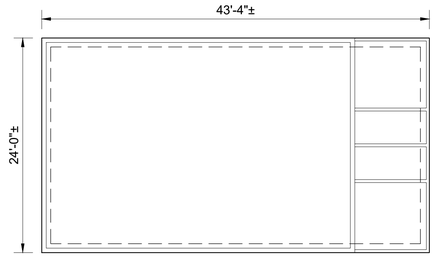
Dunn Structural Engineering
125 S Lexington Ave Suite 308
Asheville, NC 28801
828.775.5110



ELEVATIONS- SEE A204

PROJECT NORTH

FLOOR PLAN
SCALE: ¼" = 1'-0"

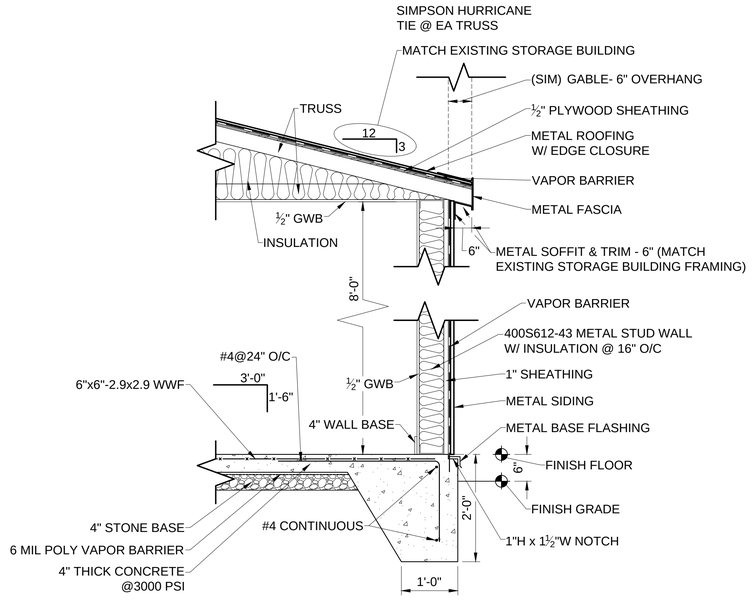


FOUNDATION PLAN
SCALE: ⅛" = 1'-0"

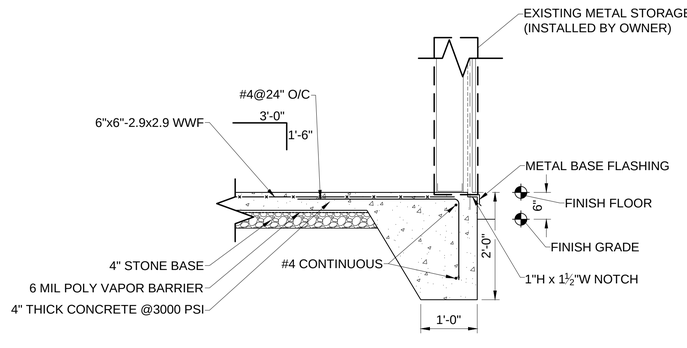
FINISHES:

- METAL STUD WALLS- PAINT W/ VINYL BASE
- GWB CEILINGS- PAINT
- CONC. FLOORS- EPOXY COATING (EXCEPT STORAGE/UTILITY)
- DOORS/FRAMES - SEE DETAILS 1-2/A204
  - H.M. 3⁰x7⁰ & 2⁶x7⁰ PAINT

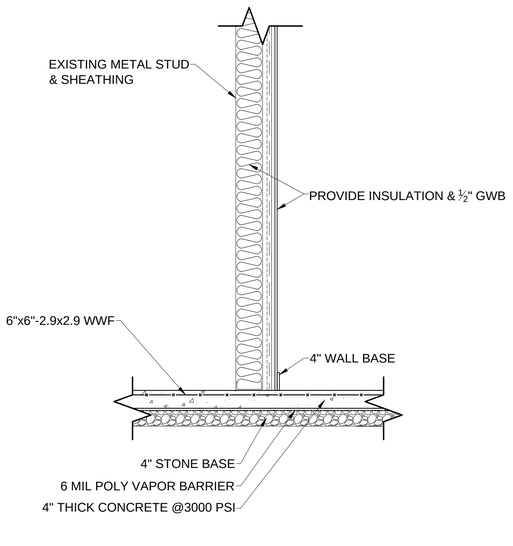
- WATERCLOSET GRAB BARS SHALL BE ACCESSIBLE COMPLIANT:
  - 36" REAR- 36" AFF 12" FROM WALL
  - 42" SIDE- 36" AFF 12" FROM WALL
  - 18" VERTICAL- 40" AFF 40" FROM WALL



① WALL SECTION
SCALE: ¾" = 1'-0"



② WALL SECTION
SCALE: ¾" = 1'-0"



③ WALL SECTION
SCALE: ¾" = 1'-0"

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SWANNANOA, NC

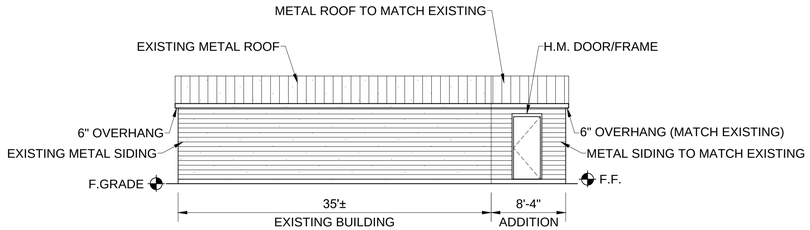
MARK S. LUSK
REGISTERED ARCHITECT
8685
3.17.26
NORTH CAROLINA
SWANNANOA, NC

BERKELEY PARK RESTROOM FACILITIES

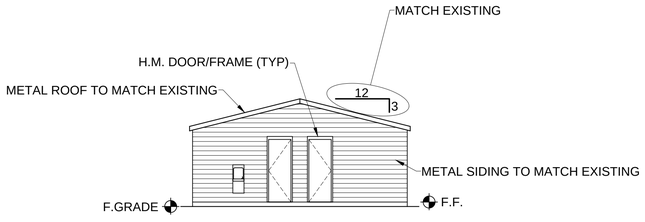
Project Number: 26002
Checked:
Drawn: A. Rognas
Date: 3/18/26
Revisions:

EXISTING STORAGE/ RESTROOMS PLANS & SECTIONS

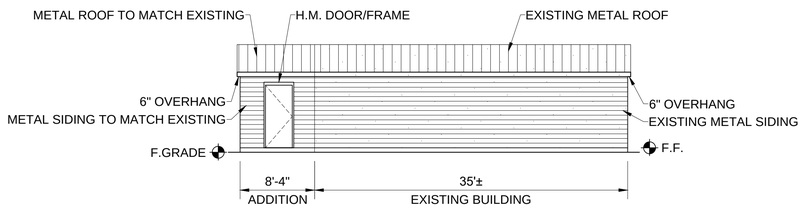
A203



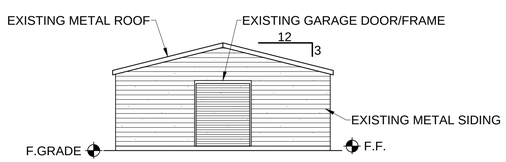
SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



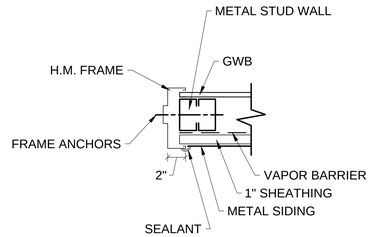
EAST ELEVATION
SCALE: 1/8" = 1'-0"



NORTH ELEVATION
SCALE: 1/8" = 1'-0"



WEST ELEVATION
SCALE: 1/8" = 1'-0"



1 JAMB DETAIL
SCALE: 1½" = 1'-0"

2 JAMB DETAIL
SCALE: 1½" = 1'-0"

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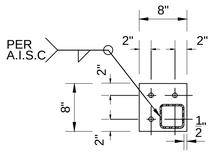
MARK S. LUSK · REGISTERED ARCHITECT · 8685 · 3.17.26 · NORTH CAROLINA · SWANNANOA, NC

BERKELEY PARK RESTROOM FACILITIES

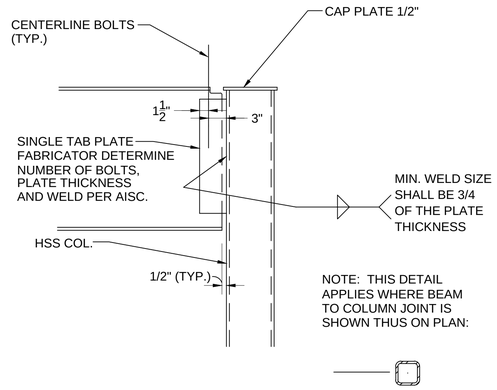
Project Number: 26002
Checked:
Drawn: A. Rognas
Date: 3/18/26
Revisions:

EXISTING STORAGE/ RESTROOMS ELEVATIONS

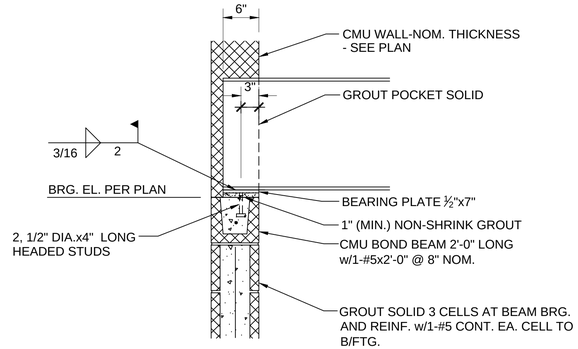
A204



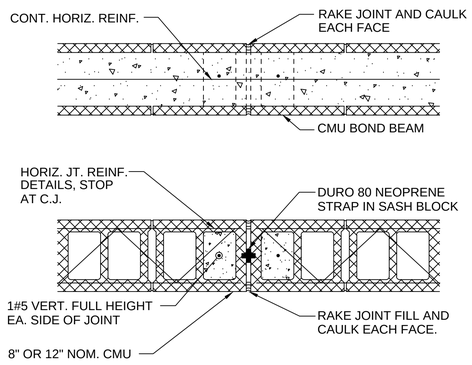
1 BASE PLATE DETAILS
SCALE: 1" = 1'-0"



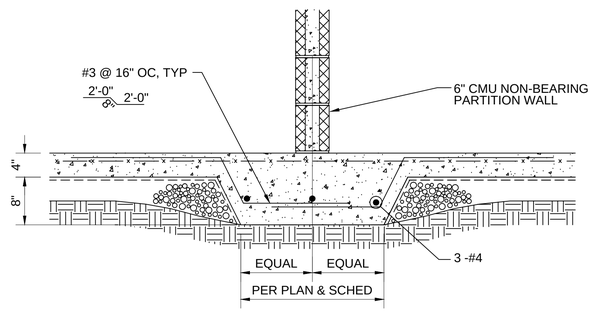
2 TYPICAL BEAM TO COLUMN CONNECTION
SCALE: 1" = 1'-0"



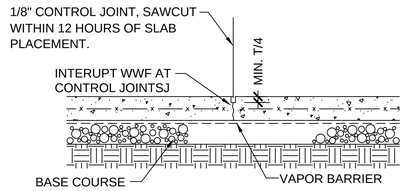
3 TYP. BEAM POCKET DETAIL
SCALE: 1" = 1'-0"



4 TYP. CONTROL JOINT
SCALE: 1" = 1'-0"



5 SECTION AT THICKENED SLAB
SCALE: 1" = 1'-0"



6 SLAB ON GRADE CONTROL JOINT
SCALE: 1" = 1'-0"

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BERKELEY PARK RESTROOM FACILITIES

Project Number: 26002
Checked:
Drawn: A. Rognas
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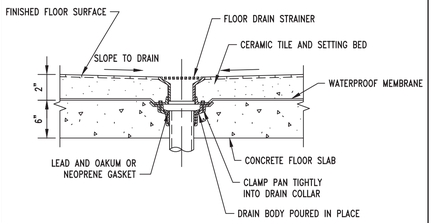
Revisions:

NORTH CAROLINA
PROFESSIONAL
SEAL
16576
ENGINEER
PATRICK THOMAS DUNN
3/17/2026

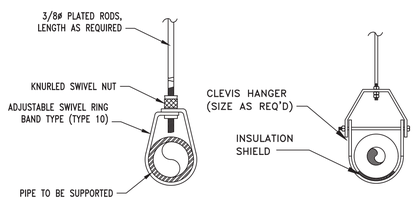
ENGINEER SEAL AFFIXED HERE FOR THE DESIGN OF THE STRUCTURALCOMPONENTS INCLUDED ON THIS DRAWING.
Dunn Structural Engineering
125 S Lexington Ave Suite 308
Asheville, NC 28801
828.775.5110

DETAILS

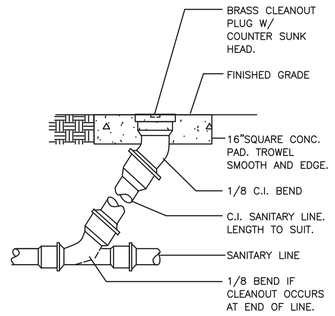
A301



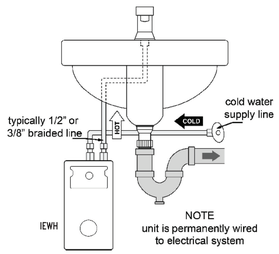
2 P1 FLOOR DRAIN IN OPEN AREA DETAIL
SCALE: NONE



3 P1 PIPE SUPPORT DETAIL
SCALE: NONE



4 P1 GROUND (GRADE) CLEANOUT DETAIL
SCALE: NONE



1 P1 BELOW SINK INSTANTANEOUS WATER HEATER DETAIL
SCALE: NONE

PLUMBING LEGEND

Cold Water Piping Below Grade	
Cold Water (CW)	
Hot Water (TW)	
Sanitary Waste Piping	
Vent Piping	
Vent Thru Roof (VTR)	
Floor Drain (FD)	
Floor Cleanout (FCO)	
Grade Cleanout (GCO)	
Pipe Drop	
Water Service Riser	
Ball Valve	
Water Hammer Arrestor (WHA)	
Hose Bibb (HB)	
Wall Hydrant (WH)	

PLUMBING EQUIPMENT SCHEDULE

TAG	EQUIPMENT
BFP	Backflow Preventer: Watts Water Technologies or equal. Model 009M2QT reduced pressure zone type. The assembly shall consist of an internal pressure differential relief valve located in a zone between two positive seating check modules with captured springs and silicone seat discs. Seats and seat discs shall be replaceable in both check modules and the relief valve. There shall be no threads or screws in the waterway exposed to line fluids. Service of all internal components shall be through a single access bronze cover secured with stainless steel bolts. The assembly shall also include two resilient seated isolation valves, four resilient seated test cocks and an air gap drain fitting. The assembly shall meet the requirements of: USC; ASSE Std. 1013; AWWA Std. C511-92; CSA B64.4.
ET	Expansion Tank: Amtrol ST-12 or equal. 4.4 gallons, 3.2 gallons acceptance.
FD	Floor drain: Zurn model ZN-415-S or equal. Dura-coated cast iron, polished nickel bronze top. Provide with Sure Seal Inline Trap Sealer or equal.
GCO	Ground cleanout: Zurn Z-1440-BP or equal. Dura-coated cast iron body with bronze plug. Set in 12"x12"x4" concrete pad flush with grade. See detail.
HB	Hose bibb. Woodford model 24-P or equal, chrome finish and keyless.
EWH	Electric Water Heater: State Patriot model PCE-40 or equal. 40 gal storage, 4.5 kW/120V, 6kW/240V. See detail.
IEWH	Instantaneous electric thermostatic water heater. EEMAX EX3512T or equal. 240v/1ph, 3.5 kW, 29A. Install on wall beneath lavatory in accordance with manufacturer's installation instructions.
PRV	Pressure Reducing Valve: Watts Model LF25AUB-Z3 or equal. Lead free, copper silicon alloy body, replaceable polymer seat (1/2"-1"), replaceable stainless steel seat (1¼" 2"), stainless steel strainer, reinforced EPDM with PTFE wetted surface diaphragm and EPDM valve disc. (1/2"-10gpm) (3/4"-14gpm) (1"-20gpm) (1¼"-25gpm) (1½"-32gpm) (2"-45gpm) (flows are at 15psi drop)
TP	Trap primer. PPP model PR-500 Prime Rite or equal, with SS-8 supply tube and DU-X distribution unit. Provide access panel.
WHA	Water Hammer Arrestor. J.R. Smith Hydrotrol 5000 Series or equal. All stainless steel construction shock absorbers shall be installed at all solenoid, remote operated or quick closing valves and at each plumbing fixture or battery of plumbing fixtures. Install on both hot and cold water branch lines in an upright position as close as possible to the valve or valves being served. Size per manufacturer's recommendations and PDI.
WH	Non freeze wall Hydrant: Woodford model B-65 or equal. Automatic draining, anti-syphon vacuum breaker, chrome finished. Provide with extra key for every 5 wall hydrants.

PLUMBING FIXTURE SCHEDULE

TAG	Fixture	Fixture manufacturer (or equal)	Fixture model #	Trim manufacturer (or equal)	Trim model #	Sanitary	Vent	Cold water	Hot water	Remarks
P1	Floor mounted water closet. Sensor Flush valve. HC accessible.	American Standard	Madera 3461.528	American Standard	Selectronic 6065.121.002	3"	2"	1"	-	White vitreous china assembly, siphon jet, 16½" rim. White open front seat with check hinges. Elongated bowl. Battery sensor flush valve with 4 year life at 4000 flushes per month. 1.28 gallons per flush. System MaP score of 1000 grams of miso at 1.28 gpf. Install per ADA. Trip lever located on accessible side.
P2	Floor mounted water closet. Sensor Flush valve.	American Standard	Madera 3461.528	American Standard	Selectronic 6065.121.002	3"	2"	1"	-	White vitreous china assembly, siphon jet, 16½" rim. White open front seat with check hinges. Elongated bowl. Battery sensor flush valve with 4 year life at 4000 flushes per month. 1.28 gallons per flush. System MaP score of 1000 grams of miso at 1.28 gpf.
P3	Urinal. Wall hung sensor flush valve.	American Standard	Washbrook 6590.503	American Standard	Selectronic 6063.013	2"	2"	3/4"	-	White vitreous china wall mounted washout assembly with flushing rim and extended sides . Battery sensor flush valve with 4 year life at 4000 flushes per month at 0.125 gallons per flush. Floor mounted carrier , Zurn Z1222 or equal. Install per ADA.
P4	Urinal. Wall hung sensor flush valve. HC accessible.	American Standard	Washbrook 6590.525	American Standard	Selectronic 6063.013	2"	2"	3/4"	-	White vitreous china wall mounted washout assembly with flushing rim and extended sides . Battery sensor flush valve with 4 year life at 4000 flushes per month at 0.125 gallons per flush. Floor mounted carrier , Zurn Z1222 or equal. Install per ADA.
P5	Lavatory. Vandal resistant, wall mounted. HC accessible.	American Standard	Regalyn 4869.004	Sloan	EBF-650-BDM	1-1/2"	1-1/2"	1/2"	1/2"	White wall-mountedd enameled cast iron, concealed arm carrier, 4" faucet centers. ADA compliant, battery powered, sensor activated, chrome plated brass faucet with 0.5 gpm vandal resistant aerator, (set at 115°F) and grid drain. Install per ADA.
P6	Dual height, wall mounted electric water cooler, with bottle filler, vandal resistant. HC accessible.	Elkay	LVRCTL8WSK	-	-	1-1/2"	1-1/2"	1/2"	1/2"	Wall mounted stainless steel dual height drinking fountain. Freeze resistant with vandal resistant bubbler and bottle filler. 8 gph, 3000 gallon filter (51300C). Install per ADA requirements. 98324C - Accessory - Cane Apron for VRC.

PLUMBING SPECIFICATIONS

1. **Shop Drawings:** Provide product data for all equipment and materials. Include pertinent dimensions, materials of construction, performance characteristics, weights and factory and field wiring diagrams.
2. **Operation and Maintenance Manuals:** Provide 3 bound O&M Manuals at the completion of the project. Include approved shop drawings and manufacturer's maintenance manuals.
3. **Record Drawings:** Contractor shall maintain a set of drawings on the job site to record all differences between the project documents and "As-Built". Contractor shall provide a set of "As-Built" drawings to the Owner at the completion of the project.
4. **Warranty:** Contractor shall warranty the installation against defects for a period of one year from the date of Owner acceptance. Any defective materials or workmanship shall be replaced at no cost to the Owner.
5. **Permits and Fees:** Contractor shall obtain and pay for all permits, fees and inspections required under his portion of the work.
5. **Electrical Coordination:** The plumbing contractor shall be responsible for providing disconnect switches for plumbing equipment not provided with factory mounted disconnect switches and the wiring from plumbing equipment to the disconect switch. All wiring and devices shall be in accordance with the NEC and electrical specifications. The electrical contractor shall be responsible for wiring and all devices upstream of disconnect device.
6. **Piping Insulation:** Flexible elastomeric insulation shall be closed-cell, sponge- or expanded-rubber materials complying with ASTM C 534, Type I for tubular materials. Mineral-fiber, preformed pipe insulation shall be Type I, 850 Deg F, mineral or glass fibers bonded with a thermosetting resin, complying with ASTM C 547, Type I, Grade A, with factory-applied ASJ or with factory-applied ASJ-SS. Install insulation continuously through non-fire rated walls and partitions. Install insulation continuously through penetrations of fire-rated walls and partitions and seal in accordance with a UL approved through penetration firestop system. Domestic cold, hot and recirculated hot water insulation shall be 1-inch thick. Insulate exposed piping including drain and water supplies under handicapped lavatories and sinks, to meet the requirements of ADA 4.19.4, ADAAG 606.5, ICC/ANSI A117.1 606.6, or GSA & DOD's ABA 606.5.requirement to "protect against contact - no sharp or abrasive surfaces" All plumbing piping shall be routed thru the thermal envelope.
7. **Pipe Hangers and Supports:** Carbon-steel pipe hangers and supports shall be MSS SP-58, Types 1 through 58, factory-fabricated components. Galvanized metallic coatings may be pregalvanized or hot dipped. Hanger rods shall be continuous-thread rod, nuts, and washer made of carbon steel. Copper pipe hangers shall be MSS SP-58, Types 1 through 58, copper-coated-steel, factory-fabricated components. Hanger rods shall be continuous-thread rod, nuts, and washer made of carbon steel. Trapeze pipe hangers shall be MSS SP-69, Type 59, shop- or field-fabricated pipe-support assembly made from structural carbon-steel shapes with MSS SP-58 carbon-steel hanger rods, nuts, saddles, and U-bolts. Thermal-hanger shield inserts for shall be heavy duty with minimum 100psig compressive strength. For trapeze or clamped systems insert and shield shall cover entire circumference of pipe. For clevis or band hanger insert and shield shall cover lower 180 degrees of pipe. Pipe positioning systems shall be IAPMO PS 42, positioning system of metal brackets, clips, and straps for positioning piping in pipe spaces; for plumbing fixtures in commercial applications. Supports for piping installed above a roof shall be B-Line BD Series with 14 gauge galvanized channel and recycled rubber base.
8. **Domestic Water Piping (Metallic):** Hard copper tube shall be ASTM B 88, Type L water tube, drawn temper. Soft copper tube shall be ASTM B 88, Type K water tube, annealed temper. Fittings shall be cast-copper, solder-joint fittings, ASME B16.18, pressure fittings or wrought-copper, solder-joint fittings, ASME B16.22 pressure fittings. Bronze flanges shall be ASME B16.24, Class 150, with solder-joint ends. Copper unions shall be MSS SP-123 cast-copper-alloy, hexagonal-stock body with ball-and-socket, metal-to-metal seating surfaces and solder-joint or threaded ends. Above grade water piping shall be Type L hard copper. Below grade piping shall be Type K soft copper. Piping shall be tested for leaks in accordance with Chapter 312 of the 2018 NC Plumbing Code. Domestic water piping shall be sanitized in accordance with Chapter 610 of the 2018 NC Plumbing Code. All plumbing piping shall be routed thru the thermal envelope.
9. **Water Pressure Reducing Valves:** Water regulators shall meet the requirements of ASSE 1003 with a pressure rating of 150 psig an outlet pressure setting of 60 psig, bronze body and threaded end connections. Provide pressure gauge with gauge cock in valve discharge piping.
10. **Hose Bibbs:** Bronze body with replaceable bronze seat, 125 psig pressure rating, threaded or solder-joint inlet and integral non-removable, drainable, hose-connection vacuum breaker complying with ASSE 1011.
11. **Non Freeze Wall Hydrants:** Wall hydrants shall meet the requirements of ASME A112.21.3M for concealed and exposed-outlet, self-draining wall hydrants and have a pressure rating of 125 psig. Casing and operating rod shall be of length required to match wall thickness. Inlet shall be NPS 3/4. Outlet shall be concealed, with integral vacuum breaker and garden-hose thread complying with ASME B1.20.7. Box shall be deep, flush mounted with cover with chrome plated finish. Provide two operating keys with each hydrant.
12. **Water-Hammer Arresters:** ASSE 1010 or PDI-WH 201, metal bellows type, sizes AA and A through F.
13. **Trap-Seal Primer Device:** ASSE 1018, 125 psig pressure rating, bronze body, NPS 1/2 inlet, threaded, union, or solder joint, gravity drain outlet connection: NPS 1/2 threaded or solder joint.
14. **Sanitary Waste and Vent Piping:** PVC pipe and fittings shall be solid-Wall PVC Pipe, ASTM D 2665. PVC socket fittings shall be ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe. Waste and vent piping shall be pressure tested in accordance with the requirements of the 2018 NC Plumbing Code.
15. **Below Grade Sanitary Waste, Grease Waste, Storm and Vent Piping:** Hub and Spigot Cast Iron pipe and fittings shall be manufactured from gray cast iron and shall conform to ASTM A 74. All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute ® and listed by NSF® International. Pipe and fittings shall be service (SV) weight. Joints shall be made using a compression gasket manufactured from an elastomer meeting the requirements of ASTM C 564. All pipe and fittings to be produced by a single manufacturer and are to be installed in accordance with manufacturer's recommendations and applicable code requirements. Waste, storm and vent piping shall be pressure tested in accordance with the requirements of the 2018 NC Plumbing Code.
16. **Plumbing Fixtures:** See Plumbing Fixture Schedule.
17. **Installation:** Materials, fixtures, equipment, accessories and installation shall comply with the requirements of the 2018 NC Plumbing Code, 2018 NC Energy Code, applicable sections of the 2018 NC Building Code and local ordinances. Equipment and materials shall be installed in compliance with manufacturer's installation recommendations and acceptable industry standards. All pipe shall be substantially supported to prevent sags. Piping shall be run parallel to walls and structure unless indicated otherwise. All water piping and other piping subject to freezing shall be run within the thermal envelope of the building unless noted otherwise. Piping subject to freezing that is noted to be install outside of the thermal envelope shall be heat traced with self limiting heat tape and insulated per the insulation specification. It is the responsibility of the contractor to field verify existing conditions and dimensions prior to beginning work.

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03-20-2026

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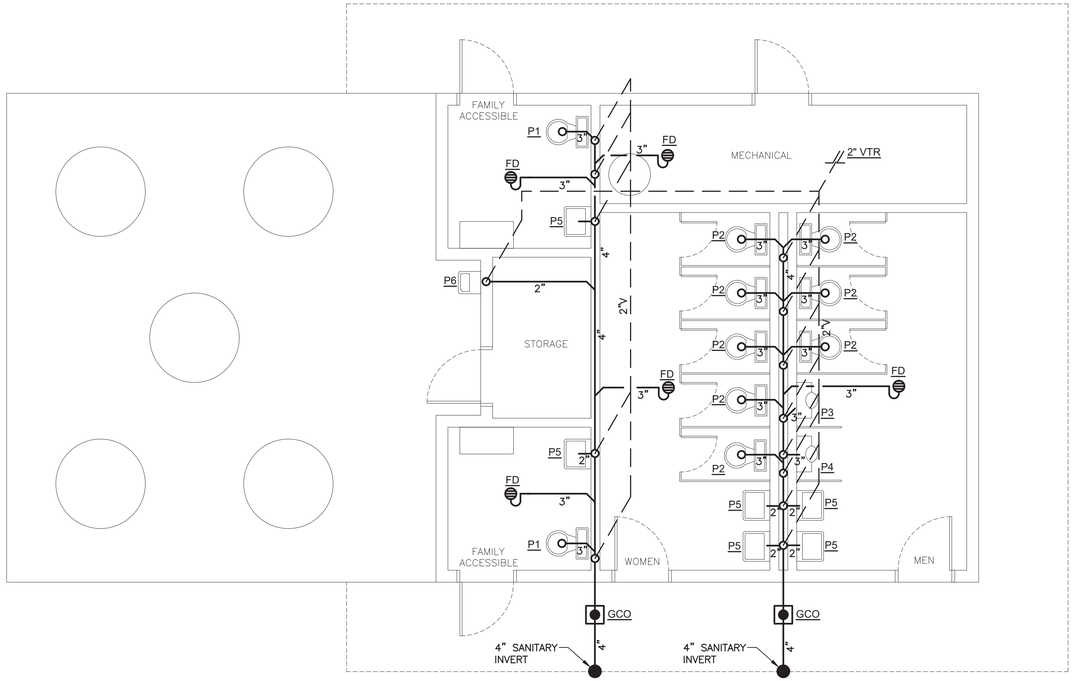
15 W. Walnut St #202, Asheville, NC 28801
828-255-4327 Project 26014

BERKELEY PARK RESTROOM FACILITIES

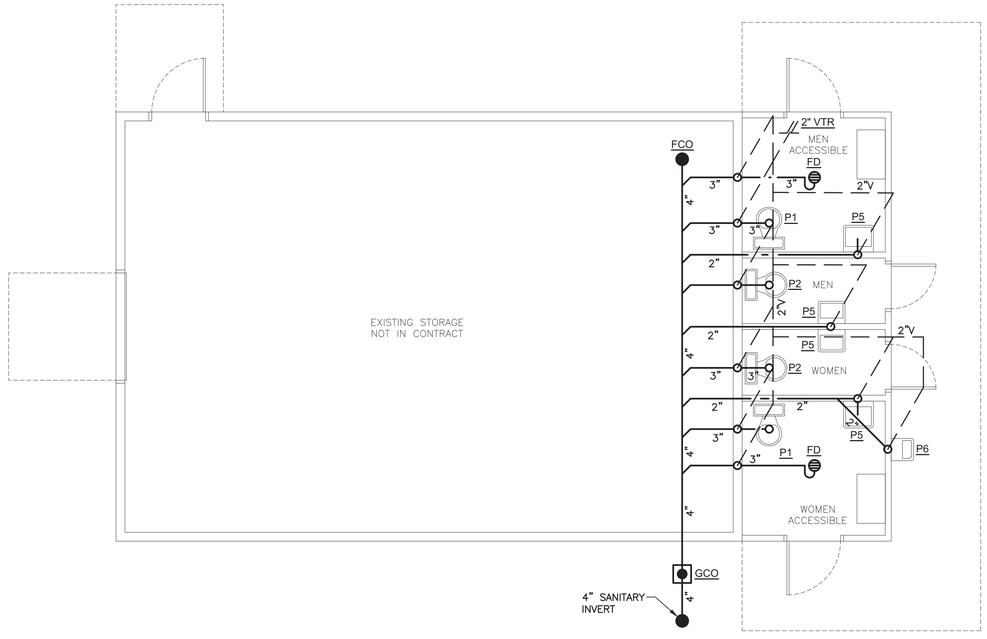
Project Number: 26002
Checked:
Drawn: TWA
Date: 3/20/26
Revisions:

PLUMBING NOTES & SCHEDULES

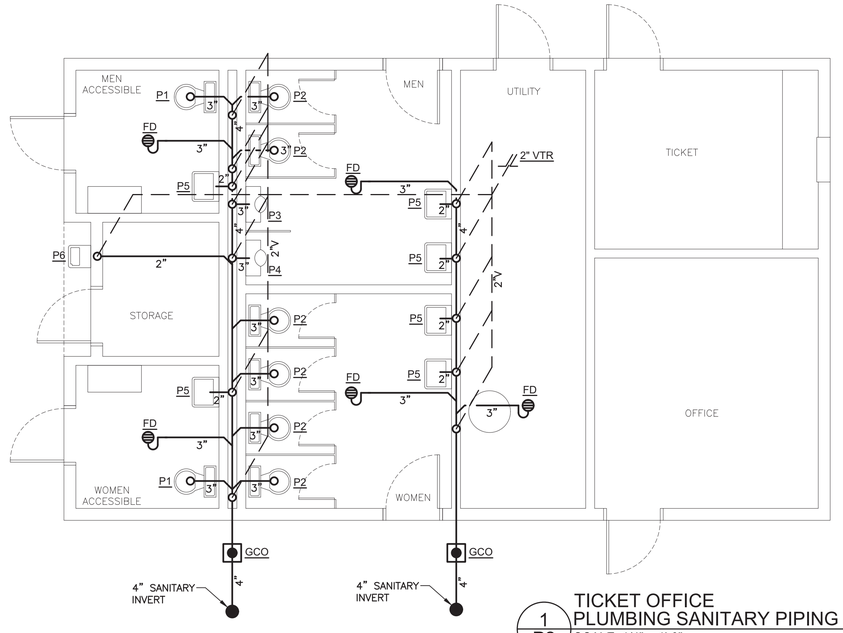
P1



3 / P2 PICNIC SHELTER
PLUMBING SANITARY PIPING PLAN
SCALE: 1/4" = 1'-0"



2 / P2 EXISTING STORAGE
PLUMBING SANITARY PIPING PLAN
SCALE: 1/4" = 1'-0"



1 / P2 TICKET OFFICE
PLUMBING SANITARY PIPING PLAN
SCALE: 1/4" = 1'-0"

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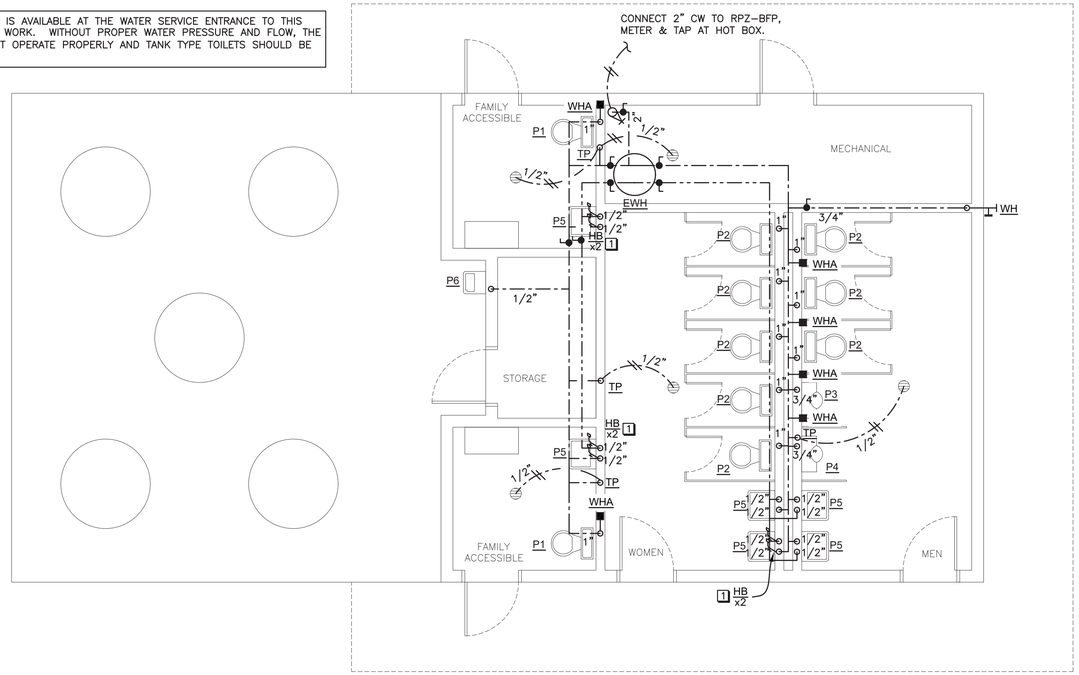
PLUMBING SANITARY PIPING PLAN

P2

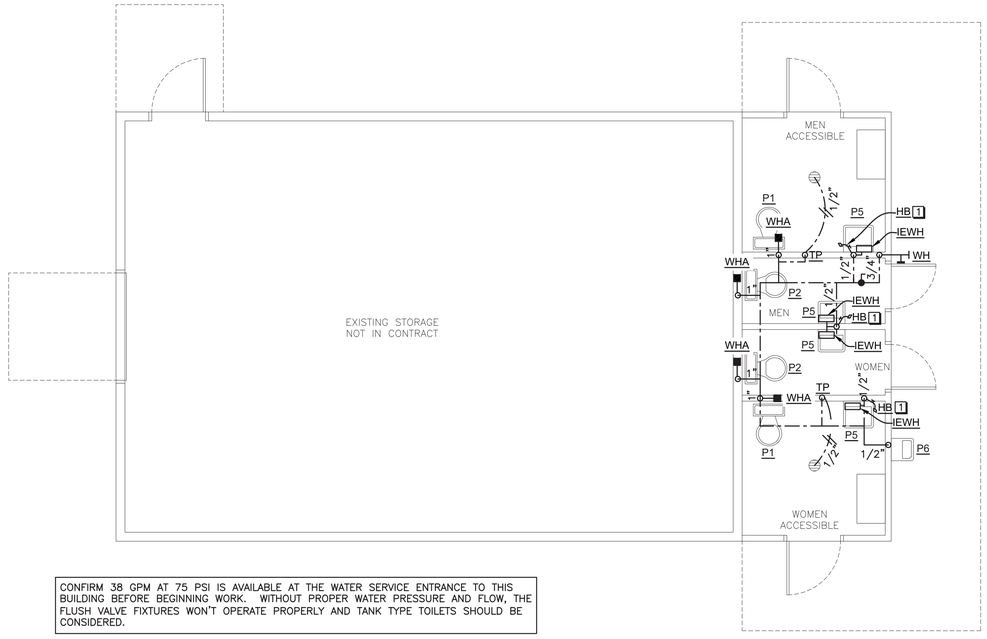
CONFIRM 58 GPM AT 75 PSI IS AVAILABLE AT THE WATER SERVICE ENTRANCE TO THIS BUILDING BEFORE BEGINNING WORK. WITHOUT PROPER WATER PRESSURE AND FLOW, THE FLUSH VALVE FIXTURES WON'T OPERATE PROPERLY AND TANK TYPE TOILETS SHOULD BE CONSIDERED.



KEYED NOTE:

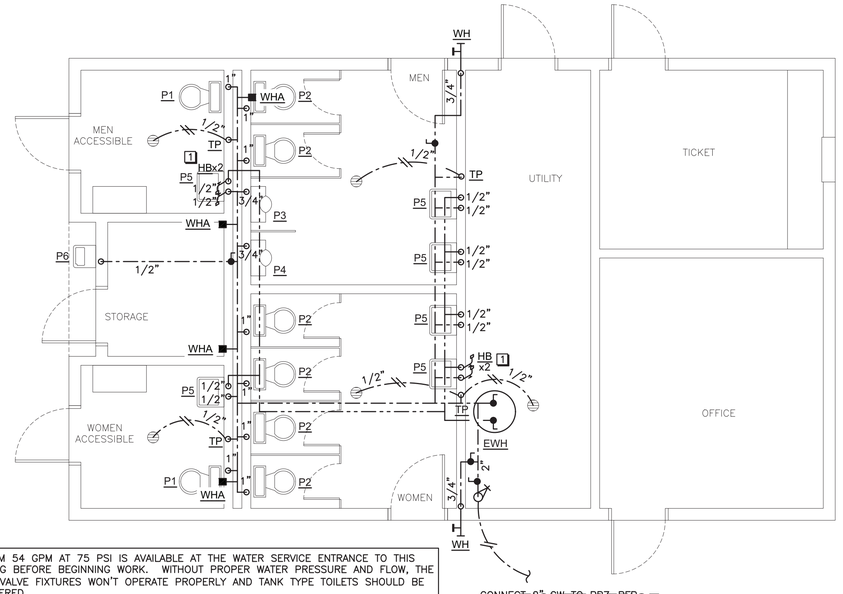
1 PROVIDE HOSE BIBB DOWN LOW TO ASSIST IN DRAINING DOWN THE SUPPLY PIPING DURING WINTER. PROVIDE BALL VALVE UPSTREAM OF HOSE BIBB.

3 P3 PICNIC SHELTER PLUMBING SUPPLY PIPING PLAN
SCALE: 1/4" = 1'-0"



CONFIRM 38 GPM AT 75 PSI IS AVAILABLE AT THE WATER SERVICE ENTRANCE TO THIS BUILDING BEFORE BEGINNING WORK. WITHOUT PROPER WATER PRESSURE AND FLOW, THE FLUSH VALVE FIXTURES WON'T OPERATE PROPERLY AND TANK TYPE TOILETS SHOULD BE CONSIDERED.

2 P3 EXISTING STORAGE PLUMBING SUPPLY PIPING PLAN
SCALE: 1/4" = 1'-0"



CONFIRM 54 GPM AT 75 PSI IS AVAILABLE AT THE WATER SERVICE ENTRANCE TO THIS BUILDING BEFORE BEGINNING WORK. WITHOUT PROPER WATER PRESSURE AND FLOW, THE FLUSH VALVE FIXTURES WON'T OPERATE PROPERLY AND TANK TYPE TOILETS SHOULD BE CONSIDERED.

1 P3 TICKET OFFICE PLUMBING SUPPLY PIPING PLAN
SCALE: 1/4" = 1'-0"

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03-20-2026

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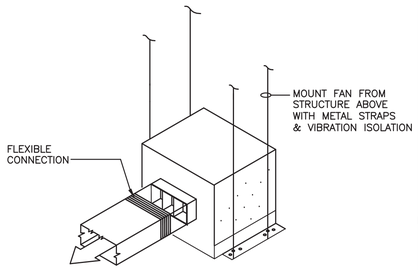
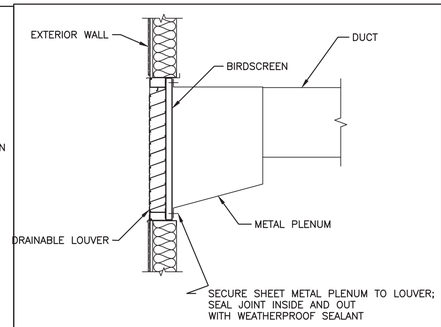
Revisions:

PLUMBING SUPPLY PIPING PLAN

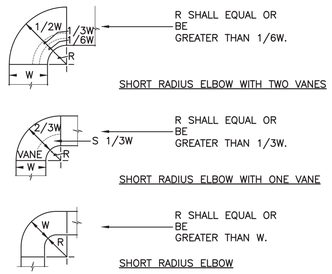
P3



1/M1 EXHAUST FAN DETAIL
SCALE: NONE



2/M1 LOUVER DETAIL
SCALE: NONE



NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

3/M1 SHORT RADIUS ELBOW DETAILS
SCALE: NONE

LOUVER SCHEDULE

TAG	L-1	L-2
manufacturer (or equal)	Ruskin	Ruskin
model	ELF375DX	ELF375DX
type	exhaust	exhaust
serves	Ticket Office	Picnic Shelter
flow (cfm)	700	800
minimum free area	-	-
dimensions	30"W x 18"H	30"W x 18"H
applicable notes	1,2,3	1,2,4
1. Coordinate finish and color with owner.		
2. Provide bird screen.		
3. Mount within 12" above ceiling height. Provide control damper interlocked with EF-1,2. Set controls so control dampers open before EF-1,2 is energized.		
4. Mount within 12" above ceiling height. Provide control damper interlocked with EF-3,4. Set controls so control dampers open before EF-3,4 is energized.		

DUCTLESS-SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG	DS-1	DS-2
area served	Office	Ticket
manufacturer (or equal)	Trane/Mitsubishi	Trane/Mitsubishi
indoor air handler model	PKA-AL12NL	PKA-AL12NL
type	wall mount	wall mount
refrigerant	R-45B	R-45B
nominal tonnage	1	1
cooling capacity (mbh)	12	12
heating capacity (mbh)	18	18
unit voltage	230V/1Ø	230V/1Ø
mca	1.0	1.0
weight (lbs)	46	46
outdoor heat pump tag	HP-1	
outdoor heat pump model	PUZ-AK24NLHZ	
type	multi split w/ hyper-heating	
refrigerant	R-45B	
voltage	230V/1Ø	
mca	24	
mocp	39	
weight (lbs)	150	
applicable notes	1,2,3,4,5,6,7,8	
1. Mount indoor unit in accordance with manufacturer's recommendations.		
2. Size refrigerant lines per manufacturer's recommendation. Comply with UL 60335-2-40.		
3. Provide unit mounted disconnect and single point power connection. Mechanical contractor is responsible for power wiring from outdoor unit to indoor units.		
4. Maintain required clearances per manufacturer's recommendation.		
5. Provide 7-day programmable thermostat with night setback and alarm display. Mount 48" AFF.		
6. Route condensate to floor drain, rain downspout, or terminate 6" above grade onto splash block.		
7. Provide humidistat and dehumidification cycle.		
8. Route condensate piping to exterior of building above splash block or dry well.		

EXHAUST FAN SCHEDULE

tag	EF-1	EF-2	EF-3	EF-4
serves	as shown	as shown	as shown	as shown
manufacturer (or equal)	Greenheck	Greenheck	Greenheck	Greenheck
model	SP-A90	SP-A510	SP-A510	SP-A90
type	ceiling	ceiling	ceiling	ceiling
drive	direct	direct	direct	direct
rpm	870	1070	1070	870
airflow (cfm)	80	350	350	80
esp (inches H2O)	0.25	0.375	0.375	0.25
max. sones	0.4	4	4	0.4
control	OS w/delay off	OS w/delay off	OS w/delay off	OS w/delay off
voltage	120V/1Ø	120V/1Ø	120V/1Ø	120V/1Ø
power (watts)	15.0	224	224	15.0
weight (lbs)	12	31	31	12
applicable notes	1,2,3,5,6	1,2,3,5,6	1,2,3,5,6	1,2,3,4,6
1. Provide unit mounted disconnect and backdraft damper.				
2. Provide vibration isolation supports and duct connection. Flexible duct shall not exceed 10'.				
3. Wall switches by E.C. Occupancy sensor to have a delay off timer set for an extra 10 minutes.				
4. Provide Greenheck Model EL-10x3 fitting for soffit discharge, with bird screen and damper. (10x3)				
5. Duct to connect to plenum box at louver as shown.				
6. Mount flush with ceiling. Coordinate with G.C. for framing requirements. Rotate according to joist direction.				

CEILING HEATER SCHEDULE

tag	CH-1	CH-2	CH-3
manufacturer (or equal)	Markel	Markel	Markel
model	HF3384D-RP	HF3385D-RP	H3387D-RP
orientation	ceiling mounted	ceiling mounted	ceiling mounted
watts	2000	3000	4800
btu's	6826	10200	16382
voltage	240V/1Ø	240V/1Ø	240V/1Ø
amps	8.3	12.5	20
weight (lbs)	25	25	25
applicable notes	1,2,3,4	1,2,3,4	1,2,3,4
1. Provide with disconnect switch.			
2. Coordinate color with owner.			
3. Provide wall mounted 7-day programmable thermostat with a vandal proof lockable cover.			
4. Mount flush with ceiling. Coordinate with G.C. for framing requirements. Rotate according to joist direction. Coordinate with lighting plan.			

MECHANICAL SPECIFICATIONS

1. **Shop Drawings:** Provide product data for all equipment and materials for approval prior to purchasing. Include pertinent dimensions, materials of construction, performance characteristics, weights and factory and field wiring diagrams for approval prior to ordering.
2. **Operation and Maintenance Manuals:** Provide 3 bound O&M Manuals at the completion of the project. Include approved shop drawings and manufacturer's maintenance manuals.
3. **Record Drawings:** Contractor shall maintain a set of drawings on the job site to record all differences between the project documents and "As-Built". Contractor shall provide a set of "As-Built" drawings to the Owner at the completion of the project.
4. **Warranty:** Contractor shall warranty the installation against defects for a period of one year from the date of Owner acceptance. Any defective materials or workmanship shall be replaced at no cost to the Owner.
5. **Electrical Coordination:** The mechanical contractor shall be responsible for providing disconnect switches for mechanical equipment not provided with factory mounted disconnect switches and the wiring from mechanical equipment to the disconect switch. All wiring and devices shall be in accordance with the NEC and electrical specifications.
6. **Firestopping:** Contractor shall firestop all pipe penetrations and duct penetrations not requiring fire dampers of fire rated walls with a UL approved firestop system. Installation shall strictly follow the firestop system details.
7. **Permits and Fees:** Contractor shall obtain and pay for all permits, fees and inspections required under his portion of the work.
8. **Duct Insulation: Mineral-Fiber Blanket Insulation:** Mineral or glass fibers bonded with a thermosetting resin. Comply with ASTM C 553, Type II and ASTM C 1290, Type III with factory-applied FSK jacket (FSK Jacket: Aluminum-foil, fiberglass-reinforced scrim with kraft-paper backing; complying with ASTM C 1136, Type II). FSK Jacket Adhesive shall comply with MIL-A-3316C, Class 2, Grade A for bonding insulation jacket lap seams and joints. Insulation nominal density of 1.5 lbs/cu.ft for 1½-2" thicknesses and 0.75 lbs/cu.ft for 3" thick. Mineral-Fiber Board Insulation: Mineral or glass fibers bonded with a thermosetting resin. Comply with ASTM C 612, Type 1A or Type 1B with factory-applied FSK jacket (FSK Jacket: Aluminum-foil, fiberglass-reinforced scrim with kraft-paper backing; complying with ASTM C 1136, Type II). FSK Jacket Adhesive shall comply with MIL-A-3316C, Class 2, Grade A for bonding insulation jacket lap seams and joints. Insulation nominal density shall be 3 lbs/cu.ft.

   Exhaust Air (exposed): 1" FG Board for the first 10 feet from wall or roof penetration including exhaust plenum.

   Exhaust Air (concealed): 1-1/2" FG Blanket for the first 10 feet from outside wall or roof penetration including exhaust plenum.
9. **Metal Ducts:** Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" based on indicated static-pressure class unless otherwise indicated. Select joint types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 2-1, "Rectangular Duct/Transverse Joints," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible." Select seam types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 2-2, "Rectangular Duct/Longitudinal Seams," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible." Elbows, Transitions, Offsets, Branch Connections, and Other Duct Construction, select types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 4, "Fittings and Other Construction," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible." Materials shall comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" for acceptable materials, material thicknesses, and duct construction methods unless otherwise indicated. Sheet metal materials shall be free of pitting, seam marks, roller marks, stains, discolorations, and other imperfections. Galvanized sheet steel shall comply with ASTM A 653/A 653M with a galvanized coating designation of G60. Carbon-Steel Sheets: Comply with ASTM A 1008/A 1008M, with oiled, matte finish for exposed ducts. Stainless-Steel Sheets: Comply with ASTM A 480/A 480M, Type 304 or 316, as indicated in the "Duct Schedule" Article; cold rolled, annealed, sheet. Aluminum Sheets: Comply with ASTM B 209 (ASTM B 209M) Alloy 3003, H14 temper; with mill finish for concealed ducts, and standard, one-side bright finish for duct surfaces exposed to view. Sealants and gaskets shall have surface-burning characteristics with a maximum flame-spread index of 25 and a maximum smoke-developed index of 50 when tested according to UL 723; certified by an NRTL. Hanger rods for noncorrosive environments shall be cadmium-plated steel rods and nuts. Strap and rod sizes shall comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Table 5-1, "Rectangular Duct Hangers Minimum Size," and Table 5-2, "Minimum Hanger Sizes for Round Duct."
10. **Ceiling Fans:** Ceiling mounted exhaust fans shall be of the centrifugal direct drive type. The fan housing shall be constructed of heavy-gauge galvanized steel. The housing interior shall be lined with 1/2 inch (13 mm) acoustical insulation. The outlet duct collar shall include a polypropylene backdraft damper on SP-A50 - 90 and a spring loaded aluminum backdraft damper on SP-A110 and larger. Outlet shall be adaptable for horizontal or vertical discharge. The designer grille for sizes SP-A50 through SP-A390 shall be constructed of high-impact polystyrene and for sizes SP-A410 through SP-A1550, the grille shall be constructed of aluminum. Grilles shall be non-yellowing. The access for wiring shall be external. The motor disconnect shall be internal and of the plug-in type. The motor shall be mounted on vibration isolators. The fan wheel shall be of the forward-curved centrifugal type and dynamically balanced. All fans shall bear the AMCA Certified Ratings program AMCA Sound and Air Performance seal and shall be UL/cUL Listed. Ceiling or wall mount fans shall be model SP as manufactured by Greenheck Fan Corporation or equal.
11. **Grilles, Registers and Diffusers:** Ceiling Diffusers shall be constructed of steel with a white baked enamel finish. Diffusers shall be plaque face style designed for T-bar mounting with an adjustable pattern. Diffusers shall be provided with a combination damper and equalizing grid. See schedule for sizes and capacities. Fixed face grilles shall be constructed of Steel with a white baked enamel finish. Grilles shall have 1 inch frames with fixed 45 degree curved blades at ¾" on center. See schedule for sizes and capacities.
12. **Louvers:** Formed Steel Drainable Stationary Louvers: Ruskin Model EL375 or equal. Louvers frame shall be constructed of roll formed galvanized steel, 18 gage, 4 inches deep, with downspouts and caulking surfaces. Blades shall be drainable constructed of 18 gage roll formed galvanized steel at an angle of 37.5 degrees at 3-1/2 inches ceters, nominal. Bird Screen shall be galvanized steel, 1/2 inch mesh x 19 gage, intercrimp with removable, rewireable frame. Drain gutters shall be provided in each blade. Downspouts shall be provided in jambs to drain water from louver for minimum water cascade from blade to blade. Supports shall be hidden vertical supports to allow continuous line appearance. Louver components shall be factory assembled with all welded construction. Performance Ratings: AMCA licensed. Performance Data shall be based on testing 48 inch x 48 inch size unit in accordance with AMCA 500. Free Area shall be 51 percent, nominal. Maximum Pressure Drop: 0.10 inches w.g. Water Penetration: Maximum of 0.01 ounces per square foot of free area at an air flow of 961 feet per minute free area velocity when tested for 15 minutes. Accessories: Blank-Off Panels: 20 gage galvanized steel sheet, 1 inch galvanized steel skin, insulated core, factory installed with removable fasteners and neoprene gaskets. Hinged Frame: Continuous piano hinge attached to [angle] [channel] subframe. [Front] [Rear] Security Bars: Galvanized steel, [1/2 inch x 1/2 inch] [3/4 inch x 1/2 inch, welded to louver. Filter Racks: Formed channel racks to accept standard [1 inch] [2 inch] thick filters. Unused bottom portion blanked off with 20 gage galvanized steel sheet. Bird Screens. Insect Screens. Extended Sills: Galvanized steel, 20 gage. Visible Mullions: Manufacturer's standard horizontal or vertical visible mullions for architectural accent as indicated on drawings. Factory Finish: Standard mill finish.
13. **Outdoor Split System Compressor Condensers 5 tons or less:** Outdoor air-cooled, compressor-condenser casing shall be steel, finished with manufacturer's standard baked enamel, with removable panels for access to controls, weep holes for water drainage, and mounting holes in base. Provide brass service valves, fittings, and gage ports on exterior of casing. Compressor shall be hermetically sealed, scroll type, with crankcase heater and mounted on vibration isolation device. Compressor motor shall have thermal- and current-sensitive overload devices, start capacitor, relay, and contactors. Refrigerant shall be R-410A. Refrigerant coil shall be copper tube, with mechanically bonded aluminum fins and liquid subcooler and comply with ARI 206/110. Heat-pump components shall include reversing valve and low-temperature-air cutoff thermostat. Fan shall be aluminum-propeller type, directly connected to motor. Fan motor shall be permanently lubricated, with integral thermal-overload protection. Low ambient kit shall permit operation down to 45 deg F. Ground mounting base shall be 4 inch thick reinforced concrete pan. Roof mounting kit shall be 6 inch high rails installed in accordance with roof manufacturer's recommendations. Refrigerant line kits shall be soft-annealed copper suction and liquid lines factory cleaned, dried, pressurized, and sealed; factory-insulated suction line with flared fittings at both ends.
14. **Installation:** All work and materials shall be in accordance with the applicable sections of the N.C. Building Code and local codes and ordinances. Equipment and materials shall be installed in compliance with manufacturer's installation recommendations and acceptable industry standards. The mechanical contractor is responsible for verifying existing conditions and dimensions before beginning work. Perform all work in a neat workman-like manner and in accordance with industry standards.

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03-20-2026

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BERKELEY PARK RESTROOM FACILITIES

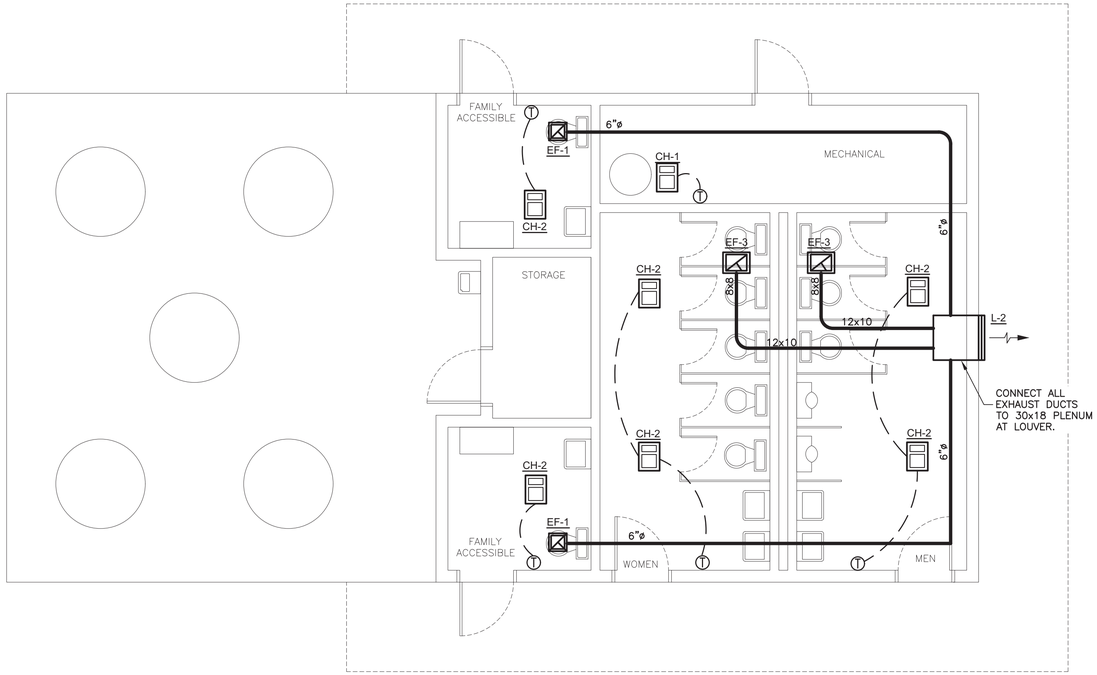
Project Number: 26002
Checked:
Drawn: TWA
Date: 3/20/26
Revisions:

MECHANICAL NOTES & SCHEDULES

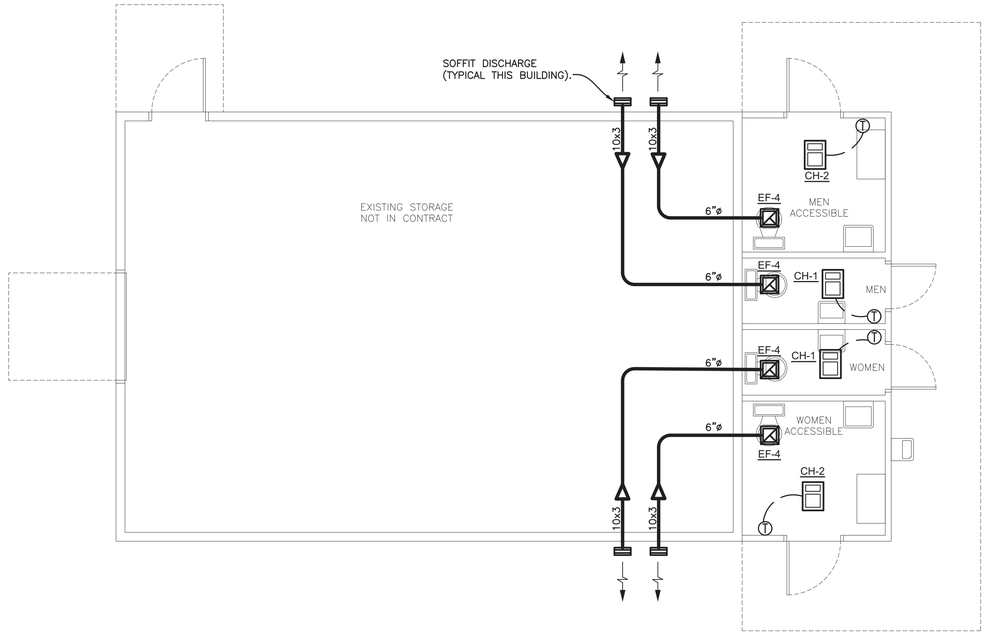
M1

MECHANICAL LEGEND

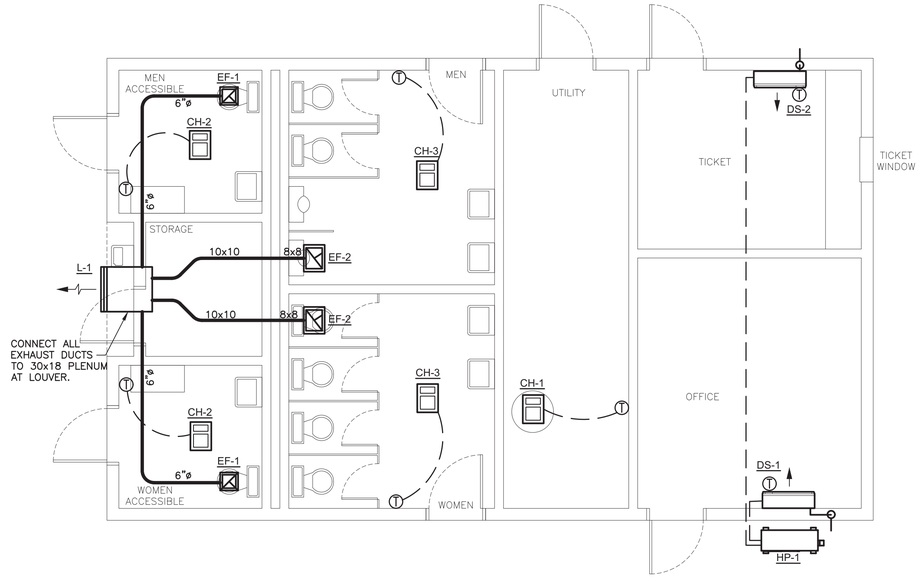
Supply Diffuser (Type X, YYY CFM)	
Return Grille (Type X)	
Rectangular Duct X" Wide, Y" Deep (Inside Clear Dimension)	XxY
Round duct X" Diameter (Inside Clear Dimension)	X"ø
Duct Transition: Rectangular To Rectangular	XxY → XXxYY
Duct Branch Tap: Round Spin-In Damper	XxY
Connect to Existing System	
Thermostat - Mount 48" AFF	T
Fire Damper - FD	



3 M2 PICNIC SHELTER MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



2 M2 EXISTING STORAGE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



1 M2 TICKET OFFICE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

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MECHANICAL PLAN

M2

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
J	JUNCTION BOX PER N.E.C.
LP1-2	HOMERUN – PANEL DESIGNATION AND CIRCUIT NUMBER
$	SINGLE POLE SWITCH – 20A – 120/277V – MOUNT 46" A.F.F. TO BOTTOM
$D	DIMMER SWITCH
$3	THREE-WAY SWITCH – 20A – 120/277V – MOUNT 46" A.F.F. TO BOTTOM
$$	INDICATES SWITCHES ARE TO PROVIDE MULTIPLE LIGHT LEVELS (INBOARD, OUTBOARD SWITCHING OF LAMPS)
M	115 OR 277 VOLT MOTOR AS NOTED ON PLANS
F	FUSED OR NON-FUSIBLE HEAVY DUTY DISCONNECT SWITCH – BY DIVISION 16
$M	2-POLE OR 3-POLE MANUAL MOTOR STARTER. PROVIDE WITH OVERLOAD PROTECTION.
OS	WALL MOUNTED OCCUPANCY SENSOR, SOUND AND MOTION ACTIVATED – SENSOR SWITCH WSX-PDT (WSX-PDT-2P FOR TOILET ROOMS)
OS	CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL STAGE ILLUMINATION – NLIGHT RCMS-PS150-PDT-10-AR-G2 – VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURERS CUT SHEETS BEFORE BEGINNING ANY WORK.
XXX	STANDARD 20A OUTLET – NEMA 5-20R DUPLEX. MOUNT 16" A.F.F. "GFI" DENOTES GROUND FAULT TYPE, NON-FEED THRU, "EWC" DENOTES OUTLET FOR ELECTRIC WATER COOLER – COORDINATE LOCATION WITH PLUMBING CONTRACTOR – NEMA 5-20R DUPLEX "WP" DENOTES WEATHERPROOF IN USE NEMA 5-20R DUPLEX, "ACT" DENOTES MOUNTED ABOVE COUNTER TOP OR BACKSPLASH, "BB" DENOTES MOUNTED ON THE BACKSIDE OF THE BAR JUST BENEATH THE BARTOP TYPICAL FOR RESTAURANTS AND BARS, "TR" DENOTES TAMPER RESISTANT. "USB" DENOTES LEGRAND TM826USB.
	TWO STANDARD 20A OUTLETS IN A 2-GANG BOX – NEMA 5-20R DUPLEX – COMMON COVER PLATE – MOUNT 16" A.F.F. TO BOTTOM OF DEVICE.
	STANDARD 20A OUTLET IN FLOOR BOX – NEMA 5-20R DUPLEX – LEGRAND WIREMOLD RFB2 FLOOR BOX.
	TELEPHONE/DATA OUTLET MTD. 16" AFF TO BOTTOM. PROVIDE 1" CONDUIT WITH PULL CORD FROM OUTLET TO COMMUNICATION BACKBOARD. STUB OUT 6" ABOVE BACKBOARD. PROVIDE NYLON BUSHING ON END OF CONDUIT. OUTLET BOX SHALL BE A 4" SQ. BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK COVERPLATE ON OUTLET BOX.
TV	CABLE TV OUTLET MTD. 16" AFF TO BOTTOM OR AS INDICATED. PROVIDE 1" CONDUIT WITH PULL CORD FROM OUTLET TO COMMUNICATION BACKBOARD. STUB OUT 6" ABOVE BACKBOARD. PROVIDE NYLON BUSHING ON END OF CONDUIT. OUTLET BOX SHALL BE A 4" SQ. BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK COVERPLATE ON OUTLET BOX.
	GROUNDING FOR SERVICE OR SEPARATELY DERIVED SYSTEM, PER N.E.C.
	SPECIAL POWER OUTLET.

WIRING DEVICE NOTES

1. Switches shall be Hubbell CS115 or equivalent and receptacles shall be Hubbell CR20 or equivalent. Devices shall be white or as directed by architect.

2. Switches shall be as follows:

single pole 20 amp	CSB20AC1-I
3 way 20 amp	CSB20AC3-I
4 way 20 amp	CSB20AC4-I
motor starter switch	Square D type "K" series

3. Duplex receptacle shall be as follows:

20 amp duplex	PS5362I
20 amp duplex-GFCI	2095IL
20 amp duplex-Weather GFI	2095TRWRI

Note: Duplex receptacles have nylon face and side wire type. Receptacles shall have brass contacts, brass terminal screws and green ground wire screw. GFCI receptacle shall be included with a trip indicator light.

4. Coverplates shall be oversized stainless steel SSJX or as directed by architect.

5. Outlet boxes shall not be mounted back-to-back.

6. Receptacles shall be 20 amp unless 15 amp is required by equipment served.

7. Weatherproof in use covers shall be clear equal to Leviton. For horizontal mount covers use part no. "5997-CL". For vertical mount covers use part no. "5977-CL".

8. All outlets (including telephone and data) shall have cover plates.

2018 APPENDIX B BUILDING CODE SUMMARY:

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:

Energy Code:	[X] Prescriptive	[ ] Performance
ASHRAE 90.1:	[X] Prescriptive	[ ] Performance

Lighting schedule(each fixture type)

lamp type required in fixture	(see fixture schedule)
number of lamps in fixture	(see fixture schedule)
ballast type used in the fixture	(see fixture schedule)
number of ballasts in fixture	(see fixture schedule)
total wattage per fixture	(see fixture schedule)
total interior wattage (whole space allowable)	NOT TO EXCEED 1.027KW
total exterior wattage specified vs. allowed	NOT TO EXCEED 840WATTS

Additional Prescriptive Compliance:

C406.2 :More Efficient Mechanical Equipment	[X] Prescriptive	[ ] Performance
C406.3 :Reduced Lighting Power Density	[ ] Prescriptive	[ ] Performance
C406.4 :Energy Recovery Ventilation System	[ ] Prescriptive	[ ] Performance
C406.5 :Higher Efficiency Service Water Heating	[ ] Prescriptive	[ ] Performance
C406.6 :On-Site Supply of Renewable Energy	[ ] Prescriptive	[ ] Performance
C406.7 :Automatic Daylighting Control Systems	[ ] Prescriptive	[ ] Performance

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

For circuits with branch circuit protection rated 20 amps or less, copper conductors shall be sized according to the following:

voltage	distance (ft)	home run (AWG)	remainder (AWG)
120	0 - 50	12	12
	50 - 90	10	12
	90 - 140	8	10
	140 +	6	10
240	0 - 95	12	12
	95 - 160	10	12
	160 - 250	8	10
	250 +	6	10

ELECTRICAL NOTES

1. The intent of these drawings and specifications are to describe the installation of a complete, fully adjusted, and operational system.
2. Provide five sets of electrical equipment submittals to the GC for the architect, engineer, GC and owner to review and approve prior to purchasing.
3. The contractor shall provide all supervision, labor, material, equipment. machinery, and any and all other items necessary to complete the system. All work shall be performed in a neat and workmanlike manner in accordance with industry standards.
4. All work under this section shall be accomplished in strict accordance with state building codes and the National Electric Code. Coordinate with local power company requirements.
5. The contractor shall obtain all necessary approval, obtain all permits and pay all fees required for the installation of their work.
6. The drawings are diagrammatic only. The contractor may need to make field adjustments to accommodate actual field conditions.
7. Devices located in rated walls shall have sufficient separation from other devices to allow proper installation and firestopping.
8. The contractor shall refer to the architectural and structural drawings for the general construction of the building, for floors and ceiling heights, for locations of wall, partitions, beams, etc.
9. Manufacturer's listed are to establish a standard of quality and not intended to limit the selection to these manufacturers. Any substitutions must be approved by the architect and engineer.
10. Contractor shall verify all listed model numbers with manufacturers to insure proper application of equipment.
11. Equipment and materials shall be handled, stored and protected in accordance with the manufacturer's recommendations.
12. The contractor shall perform any and all trenching, excavation and backfilling required for the installation of this work.
13. The contractor shall furnish all necessary scaffolding, staging, rigging and hoisting required for the completion of this work.
14. All work shall be coordinated with the general contractor and other trades involved in the construction project. All work shall be carefully laid out in advance to coordinate architectural, structural, mechanical, plumbing and electrical features of construction.
15. The electrical contractor shall visit the site before submitting his bid so as to be thoroughly familiar with the job conditions and/or peculiarities. No extra payment will be allowed for anything which could have been anticipated from a visit to the site.
16. Equipment shall be installed in accordance with manufacturer's written instructions.
17. Provide grounding for all conduits, motor frames, metal casings, receptacles, system neutral, etc. and as required by NEC as minimum. Resistance to ground shall not exceed 25 OHMS.
18. A green insulated copper ground wire, sized per NEC, shall be installed in all raceways, electric metallic tubing used for feeders, branch circuits, flexible conduit, and as otherwise noted on the drawings.
19. All fixtures shown on the plans shall be furnished and installed, complete with all mounting accessories, lamps and tubes. Fixtures shall be independently supported from structure. Re-use existing fixtures that are in good condition. If additional fixtures need to be supplied, match existing fixtures.
20. All wiring shall be run in conduit. The minimum indoor conduit size shall be ½". Indoor conduit shall be electrical metallic tubing or type MC cable may be used for branch circuits where allowed by NEC and not subject to physical damage, moisture or dampness. Connection to equipment shall be flexible metal conduit except in wet or damp locations use liquid tight flexible metal conduit. Indoor boxes and enclosures shall be NEMA type 1, except in damp or wet locations use NEMA type 4, stainless steel. Where nonmetallic conduit is used below the slab, provide a minimum of Schedule 80 PVC conduit to turn up into the building space or at any exterior walls, inside or outside framed walls, exterior landscape poles, or equipment. Use raceway fittings compatible with raceway and suitable for use and location. Run concealed raceways with a minimum of bends in the shortest practical distance considering the type of building construction and obstructions. Raceways shall run parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical. Provide grounding connections for raceway, boxes, and components as indicated and instructed by manufacturer. Tighten connections and terminals, including screws and bolts, according to equipment manufacturer's published torque-tightening values for equipment connectors. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals according to tightening torques specified in UL standard 486A.
21. All underground raceways shall be identified by "underground line marking tape" located directly above the raceway at 6" below finished grade. Tape shall be permanent, bright-colored, continuous, magnetic strip, printed plastic tape compounded for direct burial not less than 6" wide and 4mils thick. Printed legend shall be indicative of the service it is marking. Conduits exposed to different temperatures shall be sealed as required by NEC Article 300.7A.
22. Color for devices shall be coordinated with the general contractor.
23. Receptacles shall comply with UL Standard 498, "electrical attachment plugs and receptacles," heavy-duty grade 20 AMP rated except as otherwise indicated.
24. Ground-fault circuit interrupter (GFI) receptacles shall comply with UL Standard 943. "Ground fault circuit interrupters," with integral NEMA 5-20R duplex receptacle.
25. Single pole and three/four-way toggle type snap switches shall be 20 AMP 120/277 V. AC., rated, quite-type A.C. switches. NRTL listed and labeled as complying with UL Standard 20 "general use snap switches," and with federal specification W-S-896.

Wall plates: single and combination types shall be 302 stainless steel that mate and match with corresponding wiring devices. EC shall label all receptacle plates with panel and circuit designation.

26. Conductors shall be color coded in accordance with NEC as follows:

Phase	240/120 Volts	~~480/277 Volts~~
A	Black	~~Brown~~
B	Red	~~Orange~~
~~C~~	~~Blue~~	~~Yellow~~
Neutral	White	~~Grey~~
Ground	Green	~~Green~~

27. Electrical equipment shall be identified with labels of engraved plastic-laminate on each major unit of electrical equipment.
28. Panelboards/loadcenters shall be type, rating, and features as indicated on the schedules. Enclosures shall be NEMA type 1, flush or surface mounted as indicated. Cabinet shall be code gauge, galvanized steel. Fronts shall be sheet steel with gray lacquer finish with hinged locking door. Ground and neutral bus shall be 100% rated. Bus shall be copper or aluminum. Main and neutral lugs shall be plug-on type. Equipment ground bus shall be adequate for feeder and branch-circuit equipment ground conductors bonded to box. Directory frame shall be metal, mounted inside each panel door. At the completion of this installation, type circuit designations on the directory card and leave in the card holder provided inside cabinet doors. Tandem circuit breakers shall not be used. Multi-pole breakers shall have common trip. The minimum interrupting rating for circuit breakers rated at 120/240 volts shall be 22,000 AMPS RMS symmetrical. For flush mounted panels provide a minimum of (4) -1" conduits stubbed to the ceiling space for future use.
29. All wiring for equipment shall be copper with one of the following types of insulation: THW, THHW, THWN with a rating of at least 75 DEG. C. All wiring located above the ceiling shall be plenum-rated.
30. Final locations of all exit and emergency lights shall be verified with the building inspector prior to installation.
31. Branch circuits shall not exceed 80% of overcurrent protection. Devices shall be relocated to another circuit if found to be in excess of 80%.
32. Electrical contractor shall be responsible to supply a coordinated study as described in the NEC or as required by permitting officials with all gear submitted involving generators, elevators, or any life safety equipment.

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ELECTRICAL NOTES & SCHEDULES

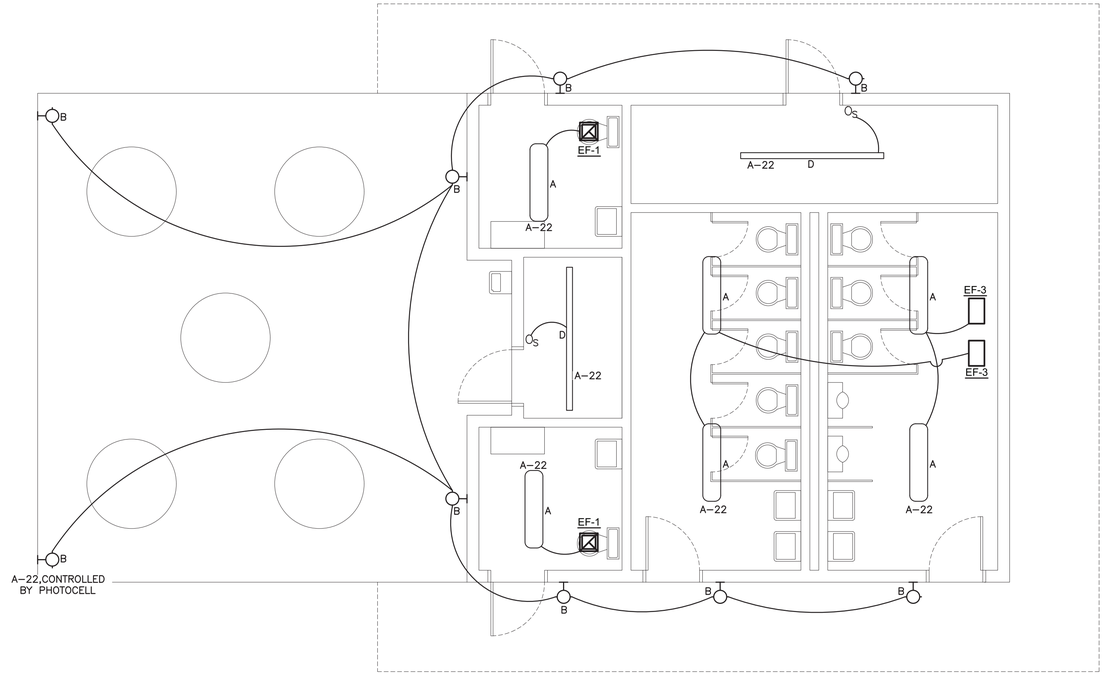
E1

LIGHTING FIXTURE SCHEDULE

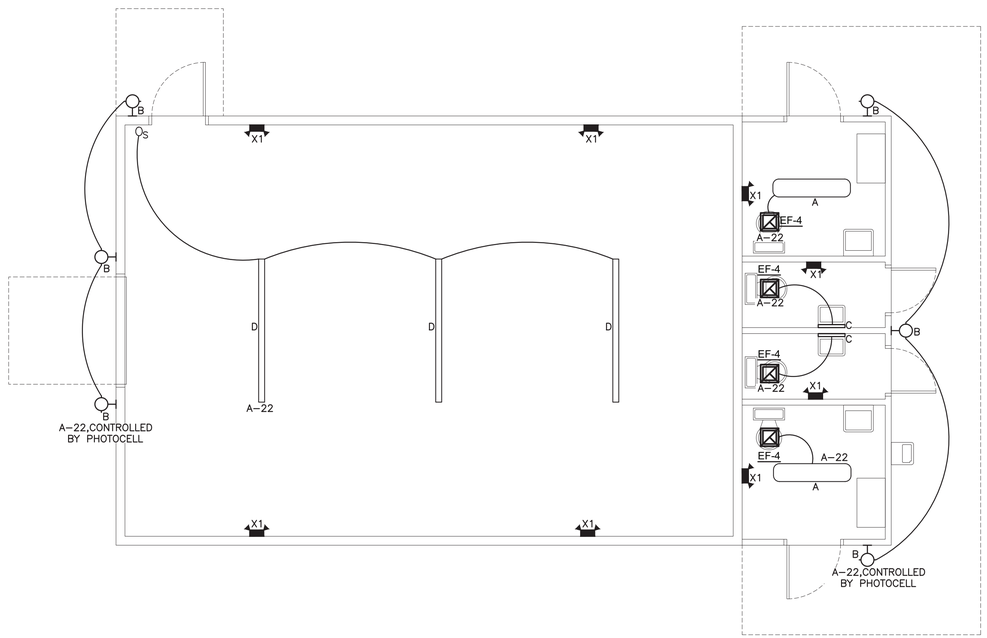
TAG	TYPE							VOLTAGE	FIXTURE WATTS	LAMPS		MOUNTING					# OF BALLASTS	DESCRIPTION	MANUFACTER & MODEL (OR EQUAL)
	INCAND.	FLUOR.	LED	METAL HAL.	H.P.S.	OTHER				NUMBER	WATTS / TYPE	RECESSED	CEILING	PENDANT	WALL	LANDSCAPE			
A			X					120	33	-	LED		X					4' VANDAL RESISTANT CEILING MOUNTED LED FIXTURE WITH OCCUPANCY SENSOR	COOPER HVSL4-LD4-1-STD-35-UNV-O-EDC1-OS1
B			X					120	15	-	LED				X			VANDAL RESISTANT LED WALL PACK WITH PHOTOCELL	HERCULUX H99DSM-PP-DB-15L40K-120-BPC
C			X					120	15	-	LED				X			VANDAL RESISTANT VANITY FIXTURE WITH OCCUPANCY SENSOR	LITHONIA VCM8-2FT-NODIM-25W-35K-120-CLP-(BY ARCH)-OCC
D			X					120	74	-	LED		X					LED STRIP FIXTURE	LITHONIA CSS-L96-AL04-MVOLT-SWW3-80CRI
X1			X					120	4	-	LED				X			VANDAL RESISTANT LED EXTERIOR EMERGENCY FIXTURE WITH COLD WEATHER BATTERY	SURE-LITES SEL-D-W-60-BK-SD

1. CONTRACTOR SHALL COMPLY WITH INSULATION CONTACT (IC) RATING FOR RECESSED FIXTURES WHERE INSULATION IS INSTALLED DIRECTLY ABOVE. CEILING (SEE ARCHITECTURAL SHEETS).

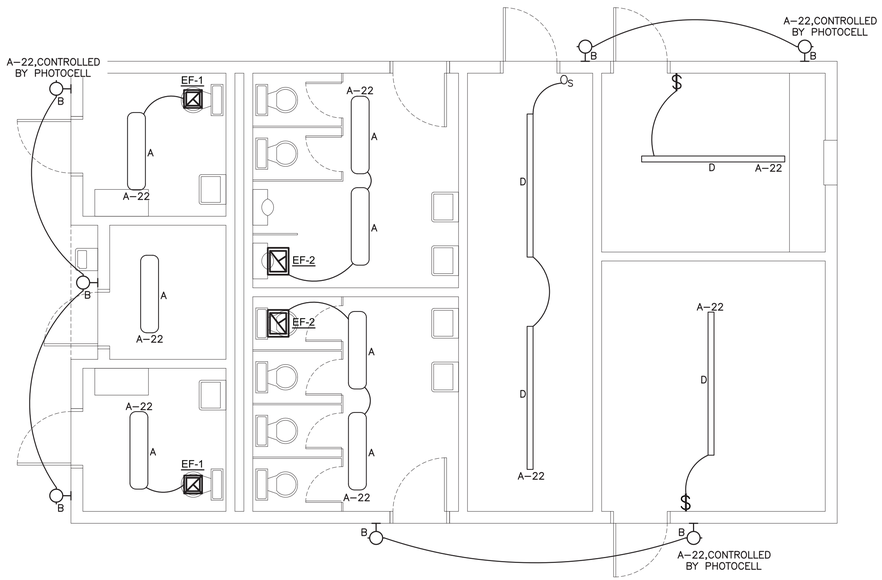
2. VERIFY MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION



3 E2 PICNIC SHELTER LIGHTING PLAN
SCALE: 1/4" = 1'-0"



2 E2 EXISTING STORAGE LIGHTING PLAN
SCALE: 1/4" = 1'-0"



1 E2 TICKET OFFICE LIGHTING PLAN
SCALE: 1/4" = 1'-0"

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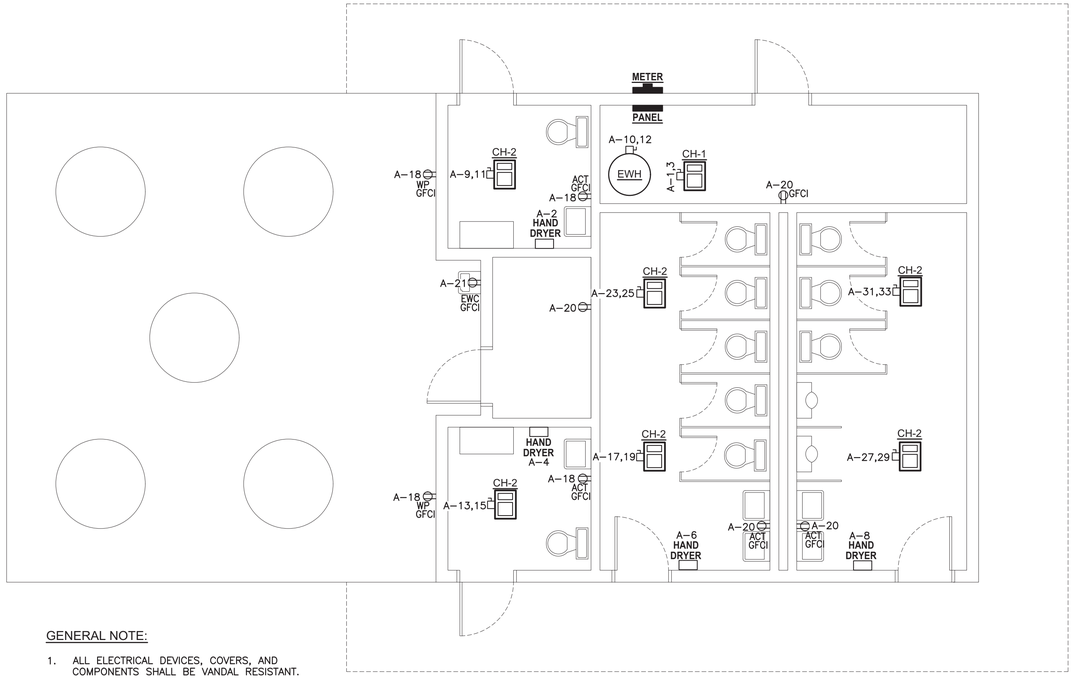
LIGHTING PLAN

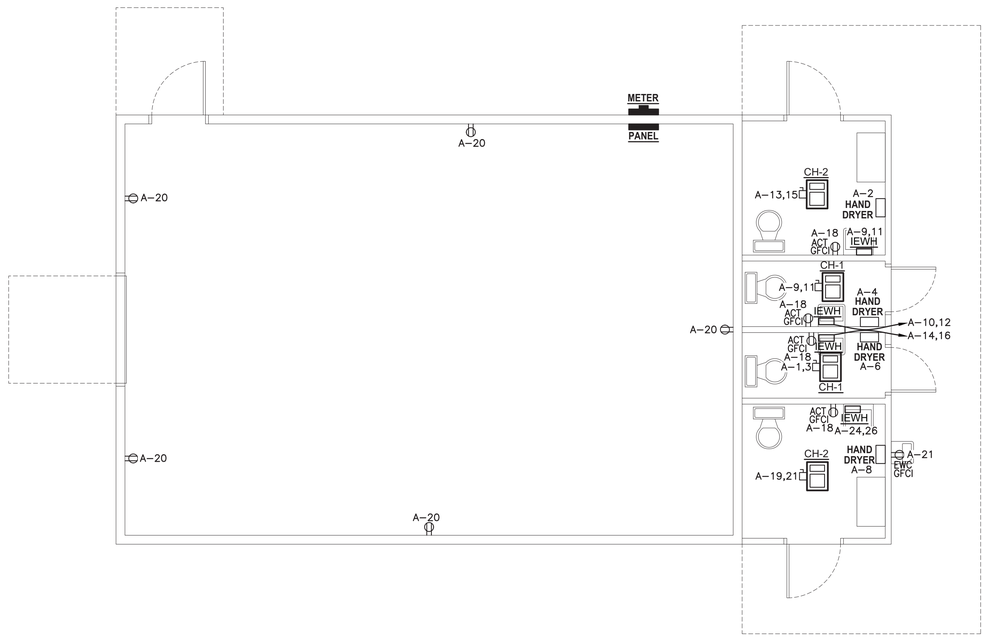
E2



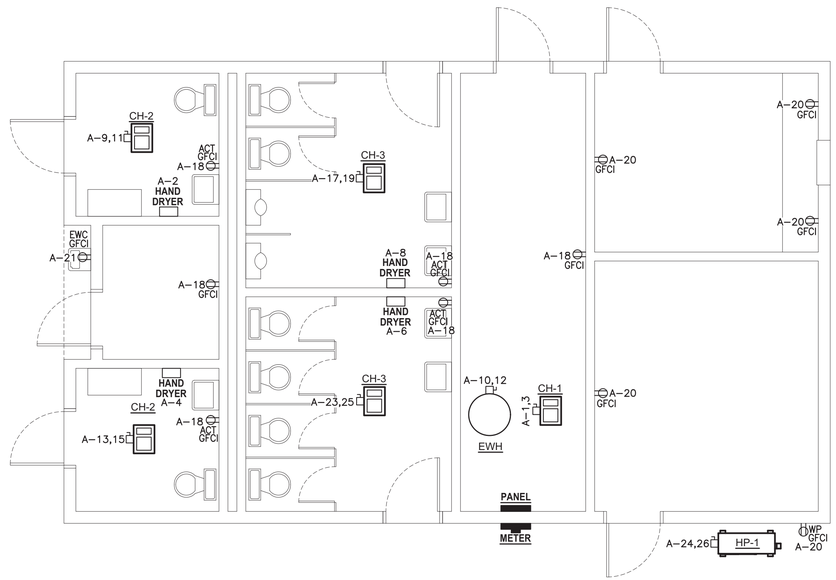
GENERAL NOTE:

1. ALL ELECTRICAL DEVICES, COVERS, AND COMPONENTS SHALL BE VANDAL RESISTANT.

3 / E3 PICNIC SHELTER POWER PLAN
SCALE: 1/4" = 1'-0"



2 / E3 EXISTING STORAGE POWER PLAN
SCALE: 1/4" = 1'-0"



1 / E3 TICKET OFFICE POWER PLAN
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028953 TILDEN A. WHITE

03-20-2026

TILDEN WHITE & ASSOCIATES, PLLC
15 W. Walnut St #202, Asheville, NC 28801
828-255-4327 Project 26014

BERKELEY PARK RESTROOM FACILITIES

Project Number: 26002
Checked:
Drawn: TWA
Date: 3/20/26
Revisions:

POWER PLAN

E3

LOCATION: STORAGE
MANUFACT.: EATON
MODEL: POWERLIEN
MOUNTING: WALL/SURFACE

EXISTING STORAGE RESTROOMS

PANEL: **A**
FED FROM: METER

VOLTS		Ph	W
240	120	1	3

FULLY RATED
22000 AIC

CONN VA	#	LOAD	Ph	N	G	C	BKR	A	B	BKR	Ph	N	G	C	LOAD	#	CONN VA
996	1	CH1	12	-	12	1/2	15			20	12	12	12	1/2	HAND DRYER	2	1800
996	3	-	12	-	-	-	2P			20	12	12	12	1/2	HAND DRYER	4	1800
996	5	CH1	12	-	12	1/2	15			20	12	12	12	1/2	HAND DRYER	6	1800
996	7	-	12	-	-	-	2P			20	12	12	12	1/2	HAND DRYER	8	1800
1750	9	IEWH	12	-	12	1/2	20			20	12	-	12	1/2	IEWH	10	1750
1750	11	-	12	-	-	-	2P			2P	12	-	-	-	-	12	1750
1500	13	CH2	12	-	12	1/2	20			20	12	-	12	1/2	IEWH	14	1750
1500	15	-	12	-	-	-	2P			2P	12	-	-	-	-	16	1750
1500	17	CH2	12	-	12	1/2	20			20	12	12	12	1/2	REC	18	900
1500	19	-	12	-	-	-	2P			20	12	12	12	1/2	REC	20	900
1200	21	EWC	12	12	12	1/2	20			20	12	12	12	1/2	LIGHTS	22	500
0	23	SPACE	-	-	-	-	-			20	12	-	12	1/2	IEWH	24	1750
0	25	SPACE	-	-	-	-	-			2P	12	-	-	-	-	26	1750
0	27	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	28	0
0	29	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	30	0
0	31	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	32	0
0	33	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	34	0
0	35	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	36	0
0	37	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	38	0
0	39	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	40	0
0	41	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	42	0

66	SUBTOTAL AMPS Ph A
56	SUBTOTAL AMPS Ph B

MAIN BREAKER:	200	
MAIN LUGS:	200	AMPS (MIN)
BUS AMPACITY:	200	AMPS (MIN)

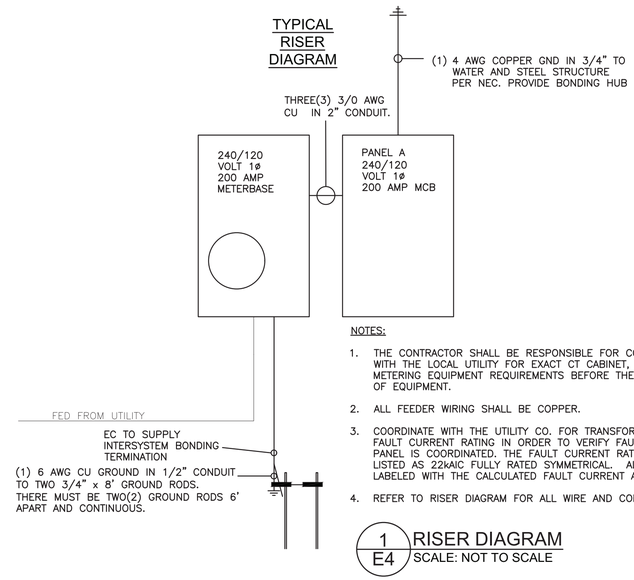
SUBTOTAL AMPS Ph A	85
SUBTOTAL AMPS Ph B	81

LOAD	CONNECTED	DF	DEMAND
LIGHTING	500	125	625
A/C	0	100	0
HEATING	31184	100	31184
NON-VENT MOTORS	0	100	0
VENTILATION	0	100	0
KITCHEN	0	100	0
RECEPTACLES	3000	100	3000
MISCELLANEOUS	0	100	0
FUTURE	0	100	0
TOTAL	34684		34809 (VA)
	145		145 (AMPS)

VA ph A	18192
VA ph B	16492
TOTAL	**34.7 kVA**

NOTES
1. PANEL SHALL BE PROVIDED WITH A FULL NEUTRAL.
2. PANEL BUSSING MATERIAL SHALL BE CU.
3. PROVIDE A FULLY RATED GROUND BUS.
4. *BKR* INDICATES HACR RATED CIRCUIT BREAKER.
5. *BKR INDICATES AFCI TYPE CIRCUIT BREAKER.
6. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE CU.

TYPICAL RISER DIAGRAM



NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE LOCAL UTILITY FOR EXACT CT CABINET, AVAILABLE VOLTAGE, AND METERING EQUIPMENT REQUIREMENTS BEFORE THE PURCHASE OF AND ROUGH-IN OF EQUIPMENT.
2. ALL FEEDER WIRING SHALL BE COPPER.
3. COORDINATE WITH THE UTILITY CO. FOR TRANSFORMER SIZE AND AVAILABLE FAULT CURRENT RATING IN ORDER TO VERIFY FAULT CURRENT RATING OF EACH PANEL IS COORDINATED. THE FAULT CURRENT RATING OF EACH PANEL SHALL BE LISTED AS 22kAIC FULLY RATED SYMMETRICAL. ALL EQUIPMENT SHALL BE LABELED WITH THE CALCULATED FAULT CURRENT AND DATE OF INSTALLATION.
4. REFER TO RISER DIAGRAM FOR ALL WIRE AND CONDUIT SIZING.

1/E4 RISER DIAGRAM
SCALE: NOT TO SCALE

LOCATION: STORAGE
MANUFACT.: EATON
MODEL: POWERLIEN
MOUNTING: WALL/SURFACE

PICNIC SHELTER

PANEL: **A**
FED FROM: METER

VOLTS		Ph	W
240	120	1	3

FULLY RATED
22000 AIC

CONN VA	#	LOAD	Ph	N	G	C	BKR	A	B	BKR	Ph	N	G	C	LOAD	#	CONN VA
996	1	CH1	12	-	12	1/2	15			20	12	12	12	1/2	HAND DRYER	2	1800
996	3	-	12	-	-	-	2P			20	12	12	12	1/2	HAND DRYER	4	1800
0	5	SPACE	-	-	-	-	-			20	12	12	12	1/2	HAND DRYER	6	1800
0	7	SPACE	-	-	-	-	-			20	12	12	12	1/2	HAND DRYER	8	1800
996	9	CH2	12	-	12	1/2	20			30	10	-	10	3/4	EWH	10	2250
996	11	-	12	-	-	-	2P			2P	10	-	-	-	-	12	2250
1500	13	CH2	12	-	12	1/2	20			-	-	-	-	-	SPACE	14	0
1500	15	-	12	-	-	-	2P			-	-	-	-	-	SPACE	16	0
1500	17	CH2	12	-	12	1/2	20			20	12	12	12	1/2	REC	18	900
1500	19	-	12	-	-	-	2P			20	12	12	12	1/2	REC	20	900
1200	21	EWC	12	12	12	1/2	20			20	12	12	12	1/2	LIGHTS	22	500
1500	23	CH2	12	-	12	1/2	20			-	-	-	-	-	SPACE	24	0
1500	25	-	12	-	-	-	2P			-	-	-	-	-	SPACE	26	0
1500	27	CH2	12	-	12	1/2	20			-	-	-	-	-	SPACE	28	0
1500	29	-	12	-	-	-	2P			-	-	-	-	-	SPACE	30	0
1500	31	CH2	12	-	12	1/2	20			-	-	-	-	-	SPACE	32	0
1500	33	-	12	-	-	-	2P			-	-	-	-	-	SPACE	34	0
0	35	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	36	0
0	37	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	38	0
0	39	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	40	0
0	41	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	42	0

89	SUBTOTAL AMPS Ph A
79	SUBTOTAL AMPS Ph B

MAIN BREAKER:	200	
MAIN LUGS:	200	AMPS (MIN)
BUS AMPACITY:	200	AMPS (MIN)

SUBTOTAL AMPS Ph A	60
SUBTOTAL AMPS Ph B	56

LOAD	CONNECTED	DF	DEMAND
LIGHTING	500	125	625
A/C	0	100	0
HEATING	30684	100	30684
NON-VENT MOTORS	0	100	0
VENTILATION	0	100	0
KITCHEN	0	100	0
RECEPTACLES	3000	100	3000
MISCELLANEOUS	0	100	0
FUTURE	0	100	0
TOTAL	34184		34309 (VA)
	142		143 (AMPS)

VA ph A	17942
VA ph B	16242
TOTAL	**34.2 kVA**

NOTES
1. PANEL SHALL BE PROVIDED WITH A FULL NEUTRAL.
2. PANEL BUSSING MATERIAL SHALL BE CU.
3. PROVIDE A FULLY RATED GROUND BUS.
4. *BKR* INDICATES HACR RATED CIRCUIT BREAKER.
5. *BKR INDICATES AFCI TYPE CIRCUIT BREAKER.
6. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE CU.

LOCATION: STORAGE
MANUFACT.: EATON
MODEL: POWERLIEN
MOUNTING: WALL/SURFACE

TICKET OFFICE

PANEL: **A**
FED FROM: METER

VOLTS		Ph	W
240	120	1	3

FULLY RATED
22000 AIC

CONN VA	#	LOAD	Ph	N	G	C	BKR	A	B	BKR	Ph	N	G	C	LOAD	#	CONN VA
996	1	CH1	12	-	12	1/2	15			20	12	12	12	1/2	HAND DRYER	2	1800
996	3	-	12	-	-	-	2P			20	12	12	12	1/2	HAND DRYER	4	1800
0	5	SPACE	-	-	-	-	-			20	12	12	12	1/2	HAND DRYER	6	1800
0	7	SPACE	-	-	-	-	-			20	12	12	12	1/2	HAND DRYER	8	1800
1500	9	CH2	12	-	12	1/2	15			30	10	-	10	3/4	EWH	10	2250
1500	11	-	12	-	-	-	2P			2P	10	-	-	-	-	12	2250
1500	13	CH2	12	-	12	1/2	20			-	-	-	-	-	SPACE	14	0
1500	15	-	12	-	-	-	2P			-	-	-	-	-	SPACE	16	0
2400	17	CH3	10	-	10	3/4	25			20	12	12	12	1/2	REC	18	900
2400	19	-	10	-	-	-	2P			20	12	12	12	1/2	REC	20	900
1200	21	EWC	12	12	12	1/2	20			20	12	12	12	1/2	LIGHTS	22	500
2400	23	CH3	10	-	10	3/4	25			35	8	-	10	3/4	HP1	24	2880
2400	25	-	10	-	-	-	2P			2P	8	-	-	-	-	26	2880
0	27	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	28	0
0	29	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	30	0
0	31	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	32	0
0	33	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	34	0
0	35	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	36	0
0	37	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	38	0
0	39	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	40	0
0	41	SPACE	-	-	-	-	-			-	-	-	-	-	SPACE	42	0

83	SUBTOTAL AMPS Ph A
73	SUBTOTAL AMPS Ph B

MAIN BREAKER:	200	
MAIN LUGS:	200	AMPS (MIN)
BUS AMPACITY:	200	AMPS (MIN)

SUBTOTAL AMPS Ph A	84
SUBTOTAL AMPS Ph B	80

LOAD	CONNECTED	DF	DEMAND
LIGHTING	500	125	625
A/C	5760	100	5760
HEATING	29292	100	29292
NON-VENT MOTORS	0	100	0
VENTILATION	0	100	0
KITCHEN	0	100	0
RECEPTACLES	3000	100	3000
MISCELLANEOUS	0	100	0
FUTURE	0	100	0
TOTAL	38552		38677 (VA)
	161		161 (AMPS)

VA ph A	20126
VA ph B	18426
TOTAL	**38.6 kVA**

NOTES
1. PANEL SHALL BE PROVIDED WITH A FULL NEUTRAL.
2. PANEL BUSSING MATERIAL SHALL BE CU.
3. PROVIDE A FULLY RATED GROUND BUS.
4. *BKR* INDICATES HACR RATED CIRCUIT BREAKER.
5. *BKR INDICATES AFCI TYPE CIRCUIT BREAKER.
6. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE CU.

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03-20-2026

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828-255-4327 Project 26014

BERKELEY PARK RESTROOM FACILITIES

Project Number: 26002
Checked:
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Revisions:

RISER DIAGRAM & PANEL SCHEDULES

E4