



UPPER VALLEY CAREER CENTER

HEALTH SCIENCE BUILDING ADDITION EARLY SITE AND RESTROOM RENOVATION

8811 Career Dr, Piqua, OH
45356

BID / PERMIT SUBMITTAL

DRAWING INDEX

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PR201	AREA B WORK PLAN
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SCOPE

PROJECT DESCRIPTION:
ALTERATION SCOPE INCLUDES THE UPDATE OF EXISTING PME, AND EXISTING FINISHES TO SERVE THE SAME PURPOSE. THESE CHANGES MAKE NO ALTERATION TO EXISTING CODE COMPLIANCY.

AREA OF WORK 556 SF

ALTERATION COMPLIANCE METHOD (SECTION 301.3) PRESCRIPTIVE COMPLIANCE PATH (301.3.1)

USE AND OCCUPANCY GROUP (SECTION 302.5) EDUCATIONAL - GROUP E (UNCHANGED)

CLASSIFICATION OF WORK (SECTION 602) ALTERATION - LEVEL 1

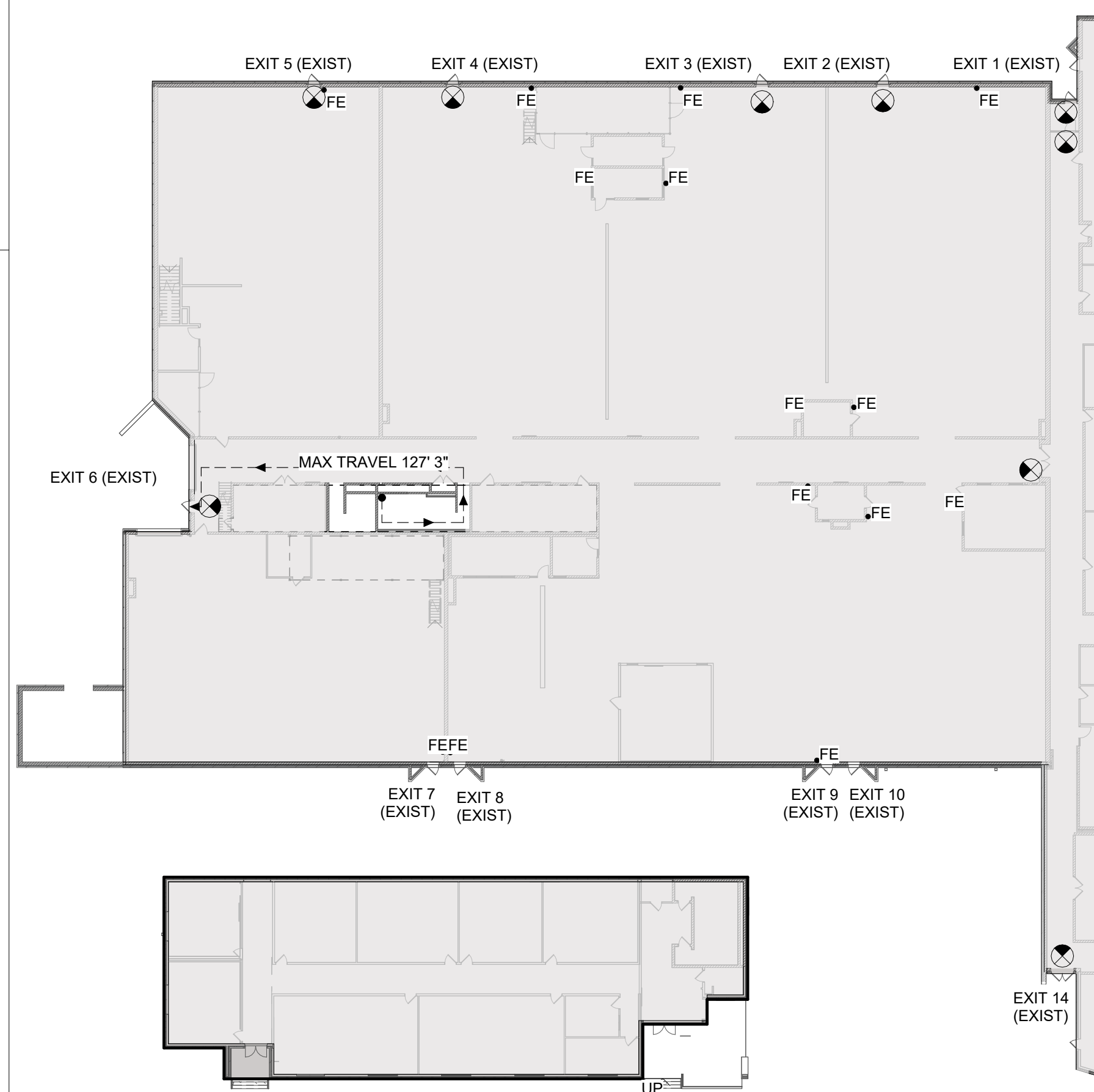
INTERIOR FINISHES (SECTION 702.1) ALL MATERIALS ARE CLASS C OR BETTER. (2024 OBC-TABLE 803.13)

MATERIALS AND METHODS (SECTION 702.7) CODE COMPLIANT (2024 OBC-CHAPTER 13).

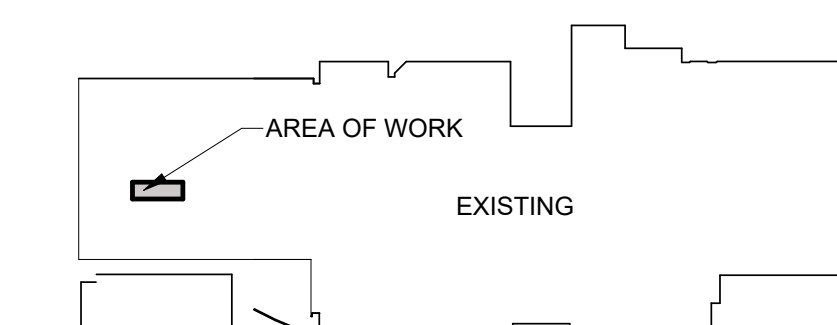
FIRE PROTECTION (SECTION 703.1) MAINTAINS EXISTING LEVELS OF PROTECTION

MEANS OF EGRESS (SECTION 704) UNCHANGED

STRUCTURAL (SECTION 706) UNCHANGED AND UNALTERED.



1 LIFE SAFETY PLAN
SCALE | 1/32" = 1'-0"



KEY PLAN

DESIGN TEAM

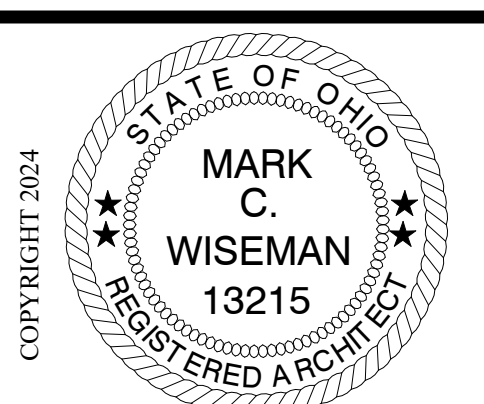
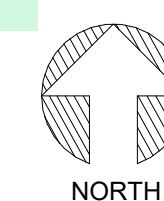
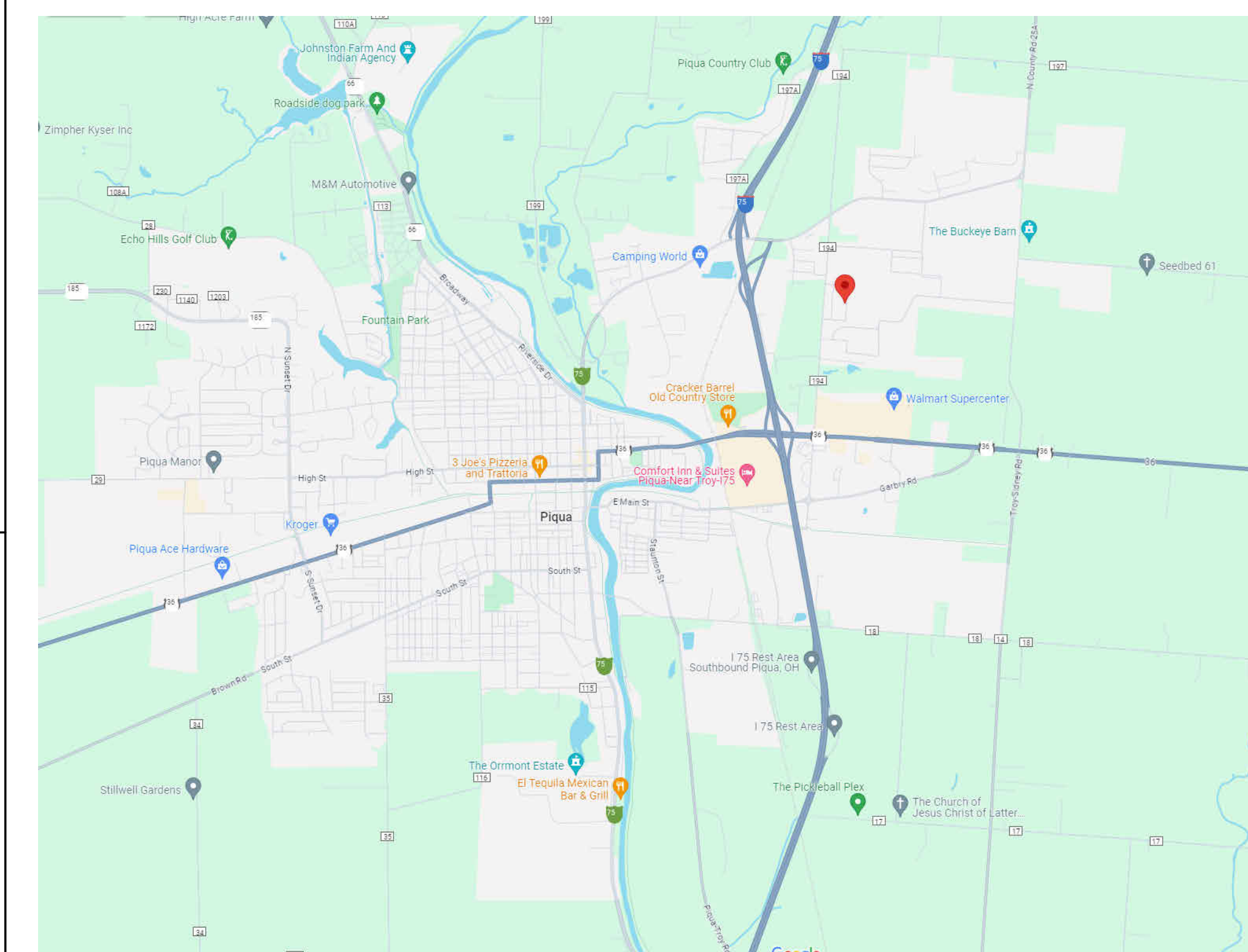
ARCHITECT:

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VICINITY MAP



Mark C. Wiseman, License #13215
Expiration Date 12/31/2025

REVISIONS:

Number	Description	Date
03.22.2024		

PRINTINGS:

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CONSULTANTS

UPPER VALLEY CAREER CENTER
HEALTH SCIENCE BUILDING ADDITION
EARLY SITE AND RESTROOM RENOVATION
8811 Career Dr, Piqua, OH 45356

PROJECT NO: 233448.00
CHECKED BY: RB
DRAWN BY: MB
DATE: 03-22-2024

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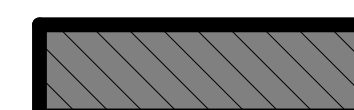


TITLE SHEET
G001

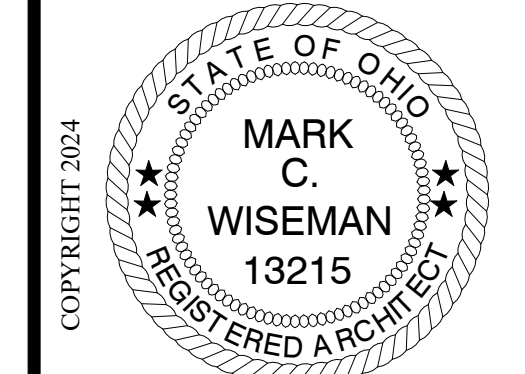
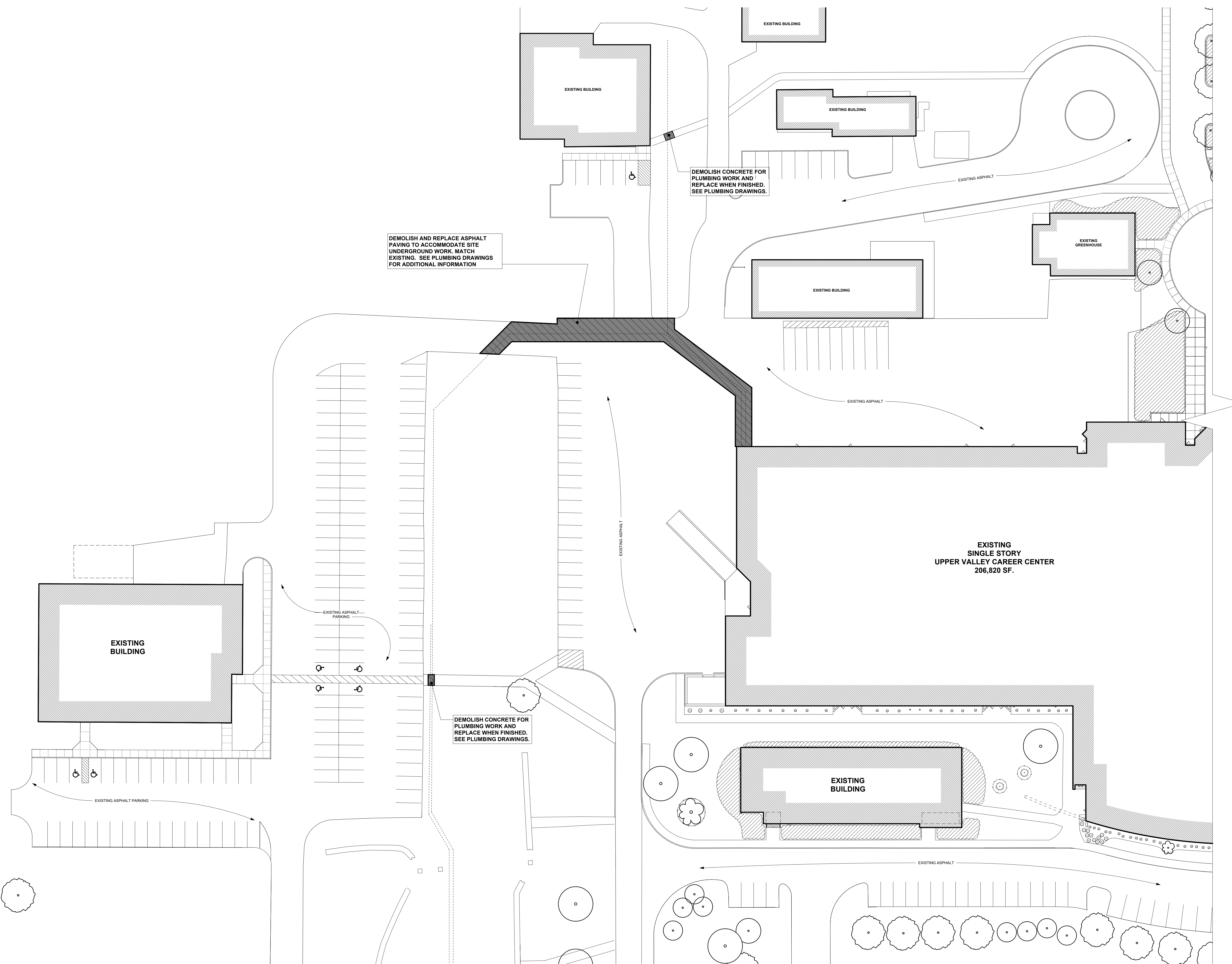
GENERAL NOTES - SITE PLANS

A. REFERENCE PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS FOR LOCATION OF SITE RELATED WORK.

PIPE LOCATIONS- FOR REFERENCE ONLY



PAVEMENT DEMOLITION AND PATCH LOCATION REQUIRE FOR INSTALLATION OF BELOW GRADE UTILITIES



Mark C. Wiseman, License #13215
Expiration Date 12/31/2021

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03.22.2024		

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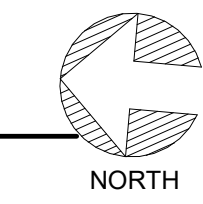
UPPER VALLEY CAREER CENTER
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OVERALL SITE PLAN
ASR100



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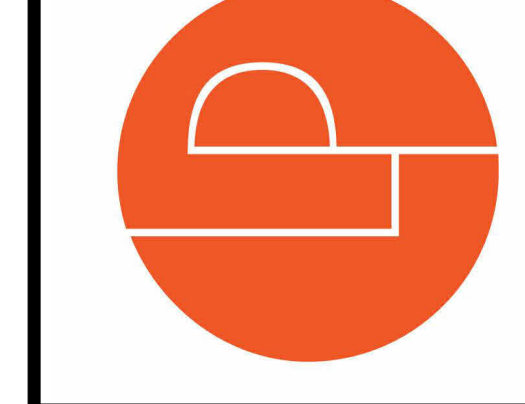
Name	Company

UPPER VALLEY CAREER CENTER
HEALTH SCIENCE BUILDING ADDITION
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NOTED FLOOR PLAN - AREA B
AR101

GENERAL NOTES

- SEE SHEET G002 FOR TYPICAL MOUNTING HEIGHTS.
- COORDINATE FINAL PLACEMENT OF ALL WALL MOUNTED EQUIPMENT WITH SIGNAGE.
- PRIOR TO INFILL OR FINISH INSTALLATION AND ELECTRICAL ROUGH-IN INSPECTION, GENERAL CONTRACTORS, ELECTRICAL DATA CONTRACTORS, ARCHITECT, AND CONSTRUCTION MANAGER SHALL REVIEW IN-PLACE LOCATIONS OF ALL SWITCH BOXES, RECEPTACLE BOXES, FIRE ALARM BOXES, ETC. FINAL LOCATIONS MAY BE ADJUSTED AT THIS TIME TO ALIGN OR COORDINATE WITH DESIGN INTENT.
- ALL WALLS ARE FULL HEIGHT TO DECK ABOVE, UNLESS NOTED OTHERWISE.
- CG = CORNERGUARD MOUNTED DIRECTLY ABOVE THE BASE. CORNER GUARDS TO BE INSTALLED WHERE NOTED.
- CONTRACTOR TO PROVIDE FIRE RETARDANT WOOD BLOCKING BACK-UP IN ALL STUD WALL ASSEMBLIES AS REQUIRED FOR MOUNTING OF ALL WALL HUNG ACCESSORIES, HUNG FIXTURES, VISUAL DISPLAYS, ETC. COORDINATE WITH OWNER PROVIDED EQUIPMENT AND LOCATIONS.
- PROVIDE ACOUSTICAL SEALANT AT ALL SOFFIT LOCATIONS THAT EXTEND TO DECK.
- ALL CEILING TILE TO BE CENTERED IN ROOM AND AT LEAST 6" OR GREATER IN SIZE UNLESS NOTED OTHERWISE.
- REFER TO ADDITIONAL TRADES FOR ITEMS NOT SHOWN ON THESE DRAWINGS.
- ALL PLASTER AND GYP. CEILINGS TO BE FINISHED AND PAINTED U.N.O.
- SEE FINISH PLANS FOR ALL SCHEDULED FINISHES. CONTRACTOR TO COORDINATE FINAL WALL COLORS SELECTION WITH ARCHITECT AND OWNER PRIOR TO APPLICATION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF ELECTRICAL, PLUMBING AND MECHANICAL DEVICES WITH THE ARCHITECTURAL ITEMS. ELECTRICAL, PLUMBING AND MECHANICAL DEVICES ARE TYPICALLY SHOWN SCHEMATICALLY ON THESE DRAWINGS AND NOT INTENDED TO REPRESENT THEIR SPECIFIC LOCATION. REVIEW ARCHITECTURAL DRAWINGS FOR WALL MOUNTED EQUIPMENT OR FURNISHINGS AND ADJUST LOCATION OF PME DEVICES AS REQUIRED.

CEILING LEGEND

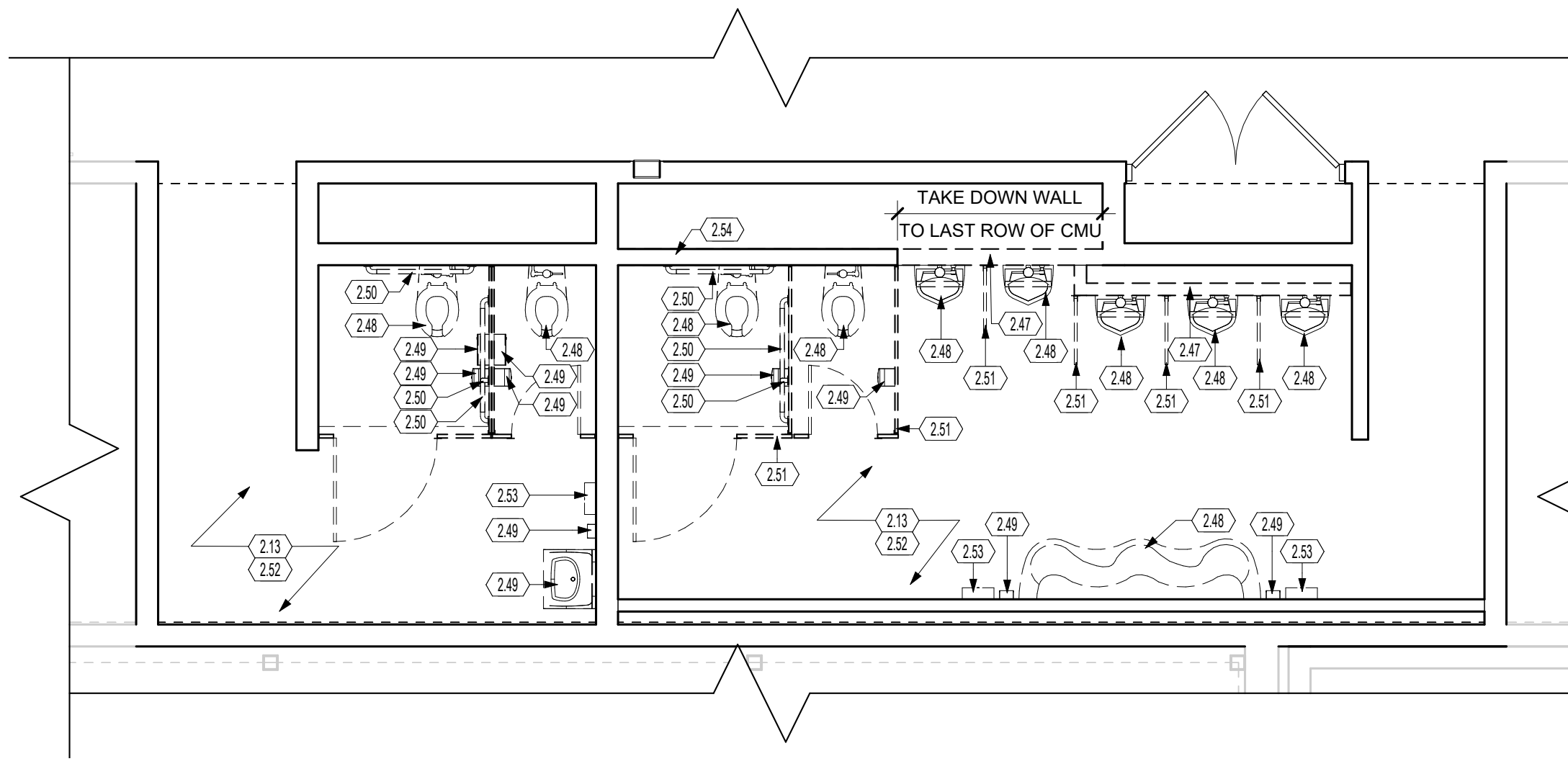
- 2' x 2' ACOUSTICAL CEILING
- 2' x 4' ACOUSTICAL CEILING
- EXPOSED STRUCTURE
- GYPSUM BOARD CEILING
- SOFFIT
- RETURN GRILLE
- SUPPLY GRILLE
- 2' x 4' RECESSED LIGHTING FIXTURE
- RECESSED LIGHTING FIXTURE (CENTER IN CEILING TILE U.N.O.)
- DIR. LIGHTING FIXTURE (CENTER IN CEILING TILE U.N.O.)
- SURFACE MOUNTED LIGHTING FIXTURE
- OCCUPANCY SENSOR
- EXIT SIGN

FLOOR FINISH LEGEND

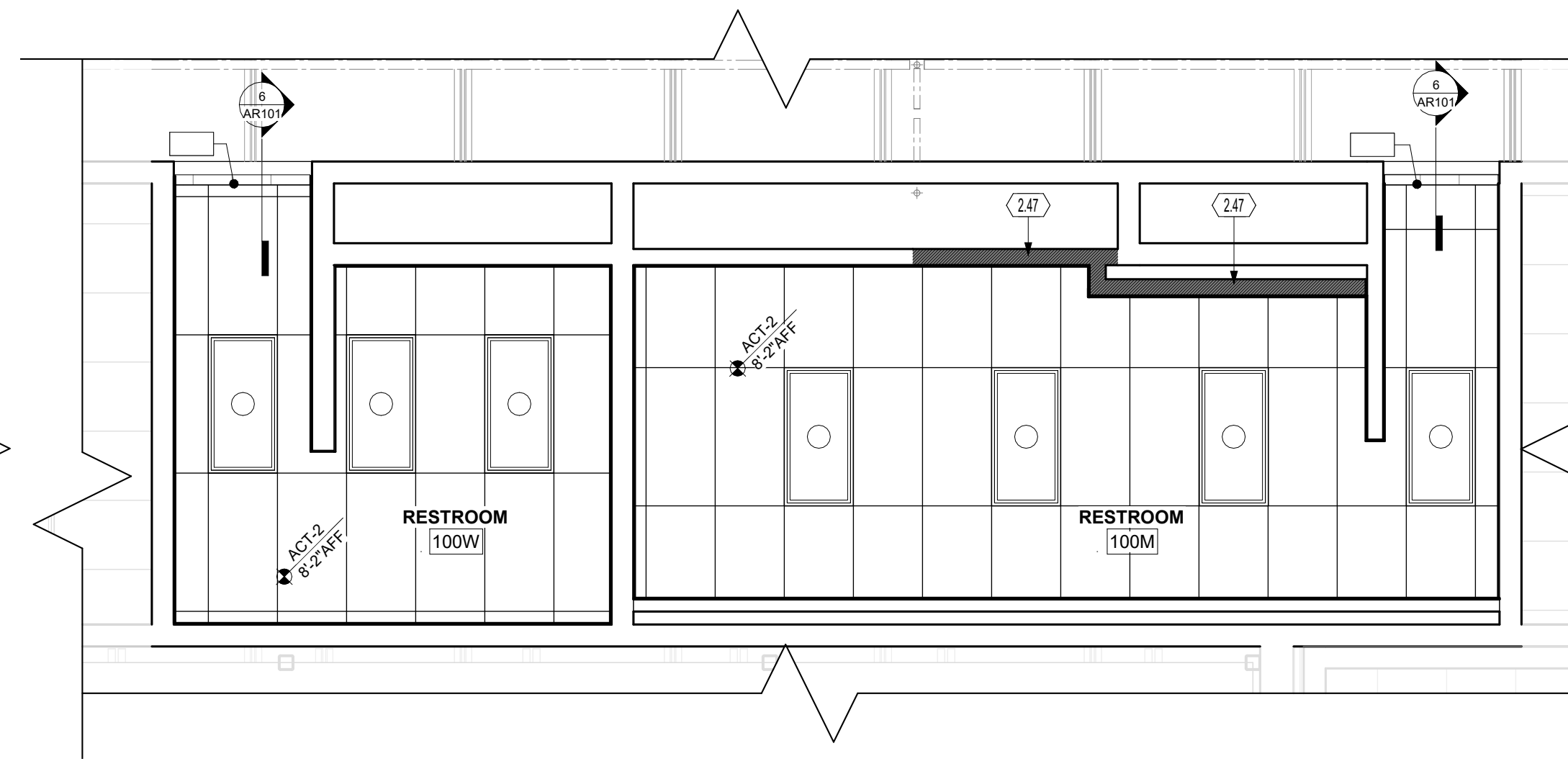
- BURNISHED CONCRETE (BC-1)
- EXISTING TO REMAIN

KEYNOTES

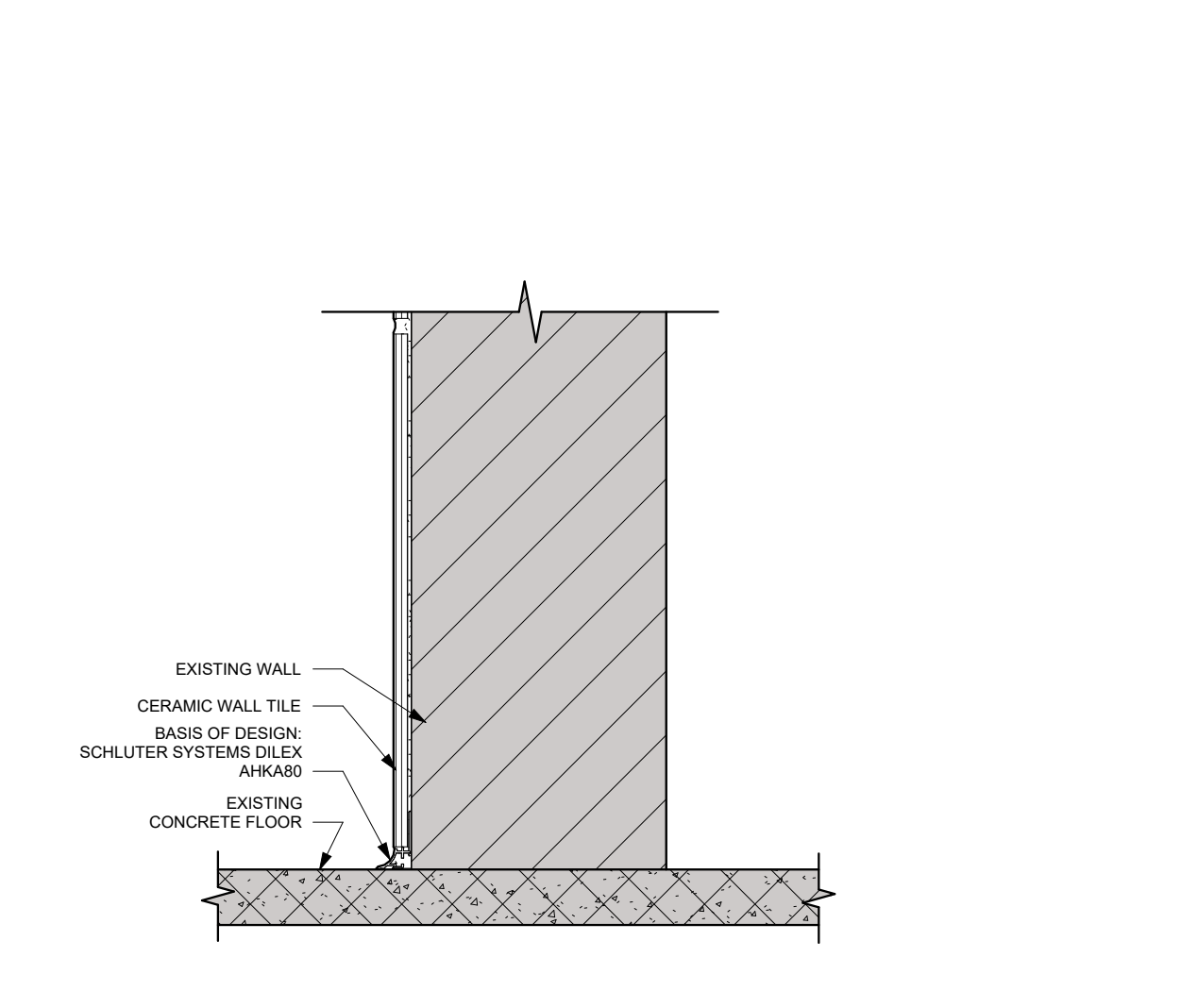
- DEMOLISH EXISTING TILE FLOOR AND BASE THROUGHOUT AND COMPLETE. PREPARE EXISTING CONCRETE SURFACE FOR NEW BURNISHED CONCRETE FINISH.
- DEMOLISH EXISTING MASONRY WALL DOWN TO FIRST COURSE TO ACCESS PLUMBING SHAFT. TOOTH IN MASONRY AS OCCURS.
- DEMOLISH EXISTING PLUMBING FIXTURE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- REMOVE AND SALVAGE EXISTING TOILET ROOM ACCESSORIES TO BE RE-INSTALLED IN NEW LOCATION. SEE FLOOR PLAN FOR MORE INFORMATION.
- DEMOLISH EXISTING GRAB BARS.
- DEMOLISH TOILET PARTITIONS AND URINAL SCREENS.
- DEMOLISH EXISTING CEILING, LIGHTS, AND DIFFUSERS. REFERENCE PME SHEETS FOR ADDITIONAL INFORMATION.
- DEMOLISH ELECTRIC HAND DRYER AND WALL MOUNTED WALL PROTECTION.
- REMOVE AND REPLACE EXISTING MECHANICAL AND INFILL WITH CMU AND FINISH WALL MATERIAL AS REQUIRED.
- NEW CMU WALL INFILL. TOOTH-IN AS REQUIRED. SEE WALL SCHEDULE FOR MORE INFORMATION.
- METAL EDGE TRIM.
- 18" VERTICAL GRAB BAR.
- 42" HORIZONTAL GRAB BAR.
- 36" HORIZONTAL GRAB BAR.
- NEW PAPER TOWEL DISPENSER BY OWNER AND INSTALLED BY CONTRACTOR.
- EXISTING SANITARY NAPKIN DISPOSAL INSTALLED IN NEW LOCATION BY CONTRACTOR.
- EXISTING TOILET TISSUE DISPENSER INSTALLED IN NEW LOCATION BY CONTRACTOR.
- EXISTING SOAP DISPENSER INSTALLED IN NEW LOCATION BY CONTRACTOR.
- SOLID PLASTIC TOILET PARTITIONS.
- SOLID PLASTIC URINAL SCREEN.
- MIRROR WITH 4" STAINLESS STEEL SHELF. 24" X 36"
- SINK. SEE PLUMBING DRAWINGS. (INSULATE PIPING BELOW).
- TOILET. SEE PLUMBING DRAWINGS.
- URINAL. SEE PLUMBING DRAWINGS.
- RETURN DIFFUSER. SEE MECHANICAL DRAWINGS.



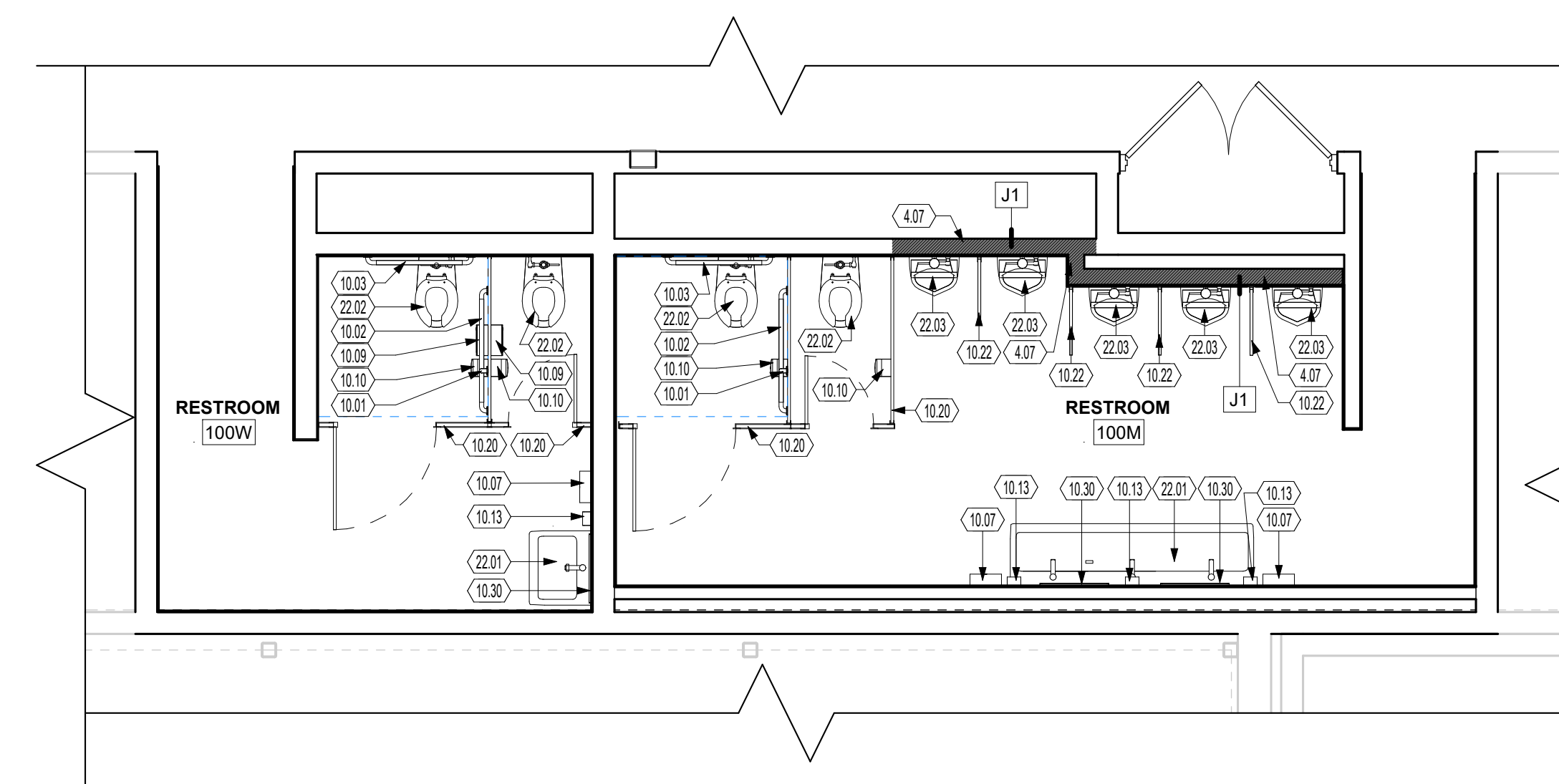
30 NOTED DEMO FLOOR PLAN AREA B
 SCALE | 1/4" = 1'-0"



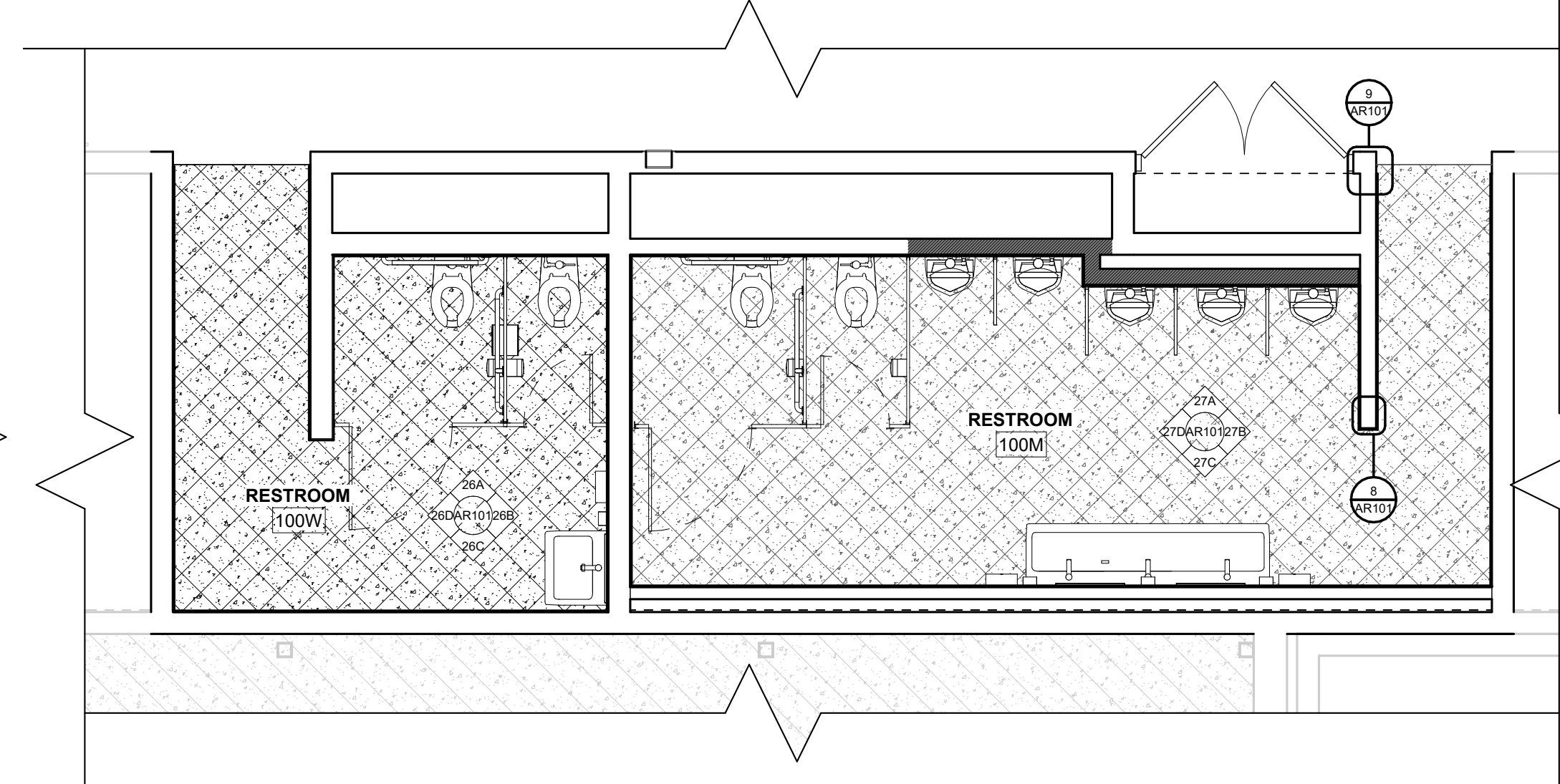
20 REFLECTED CEILING PLAN - AREA B
 SCALE | 1/4" = 1'-0"



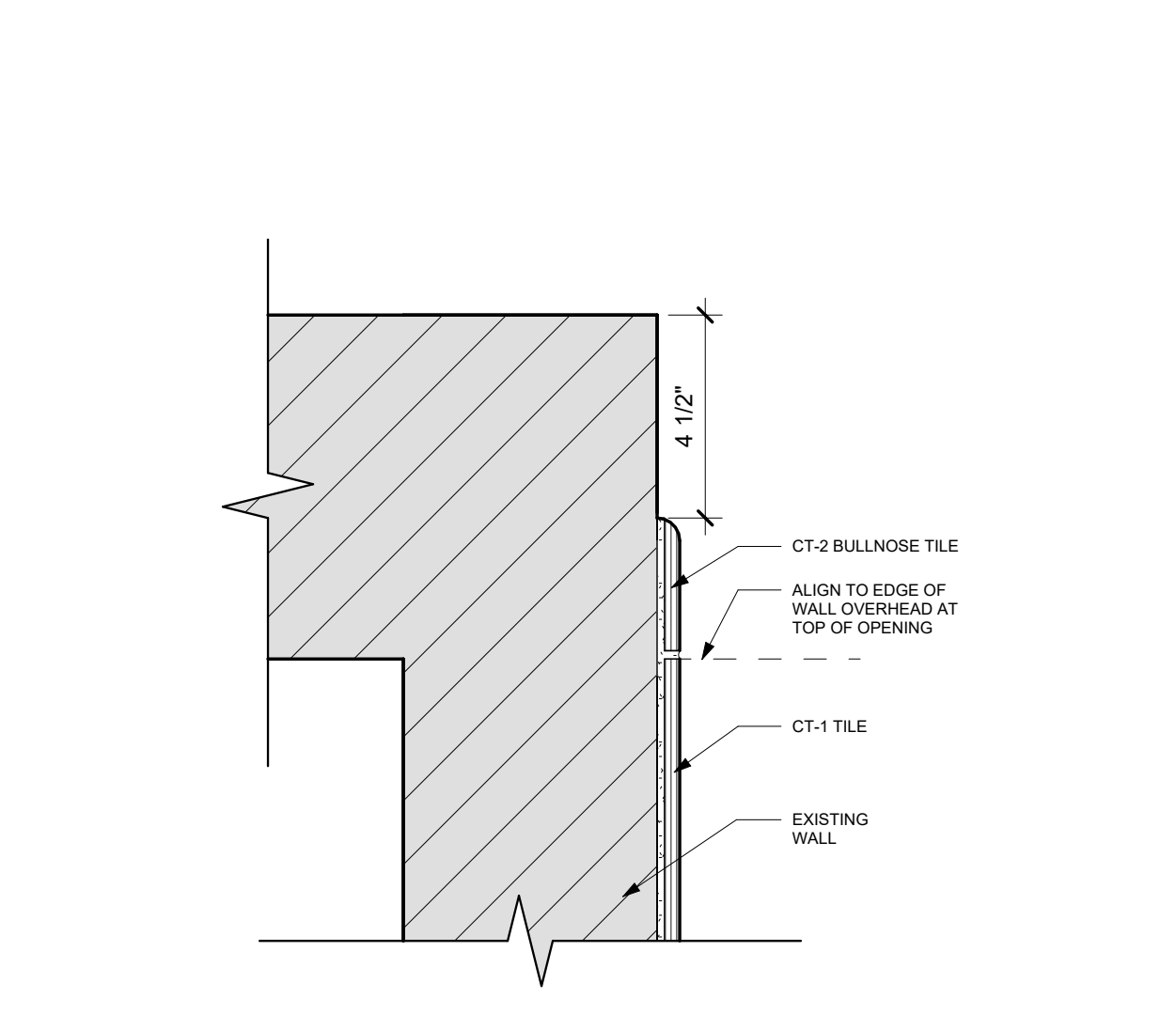
10 METAL COVE TRIM ALONG BASE
 SCALE | 3" = 1'-0"



29 NOTED FLOOR PLAN AREA B
 SCALE | 1/4" = 1'-0"



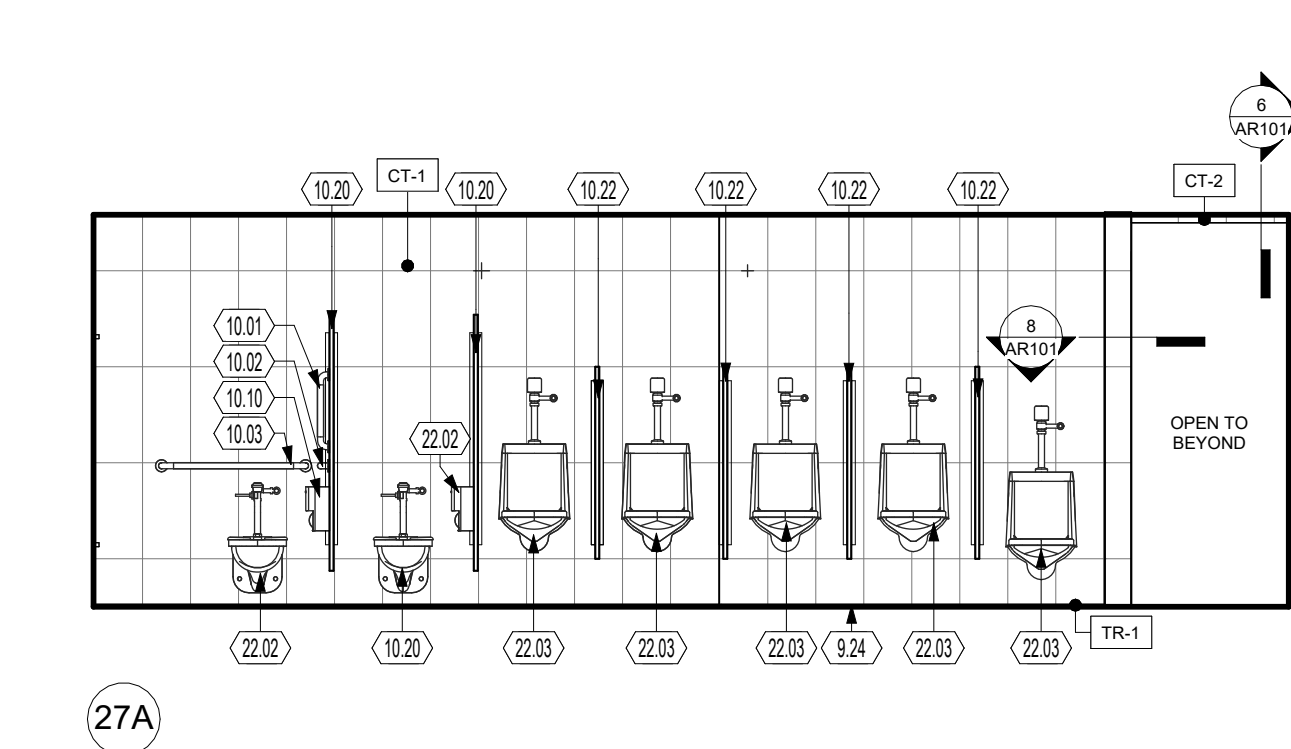
19 FLOOR FINISH PLAN - AREA B
 SCALE | 1/4" = 1'-0"



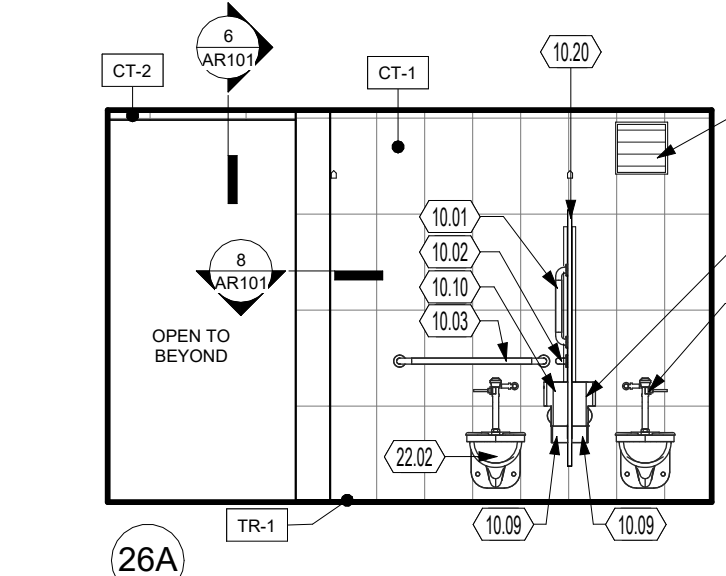
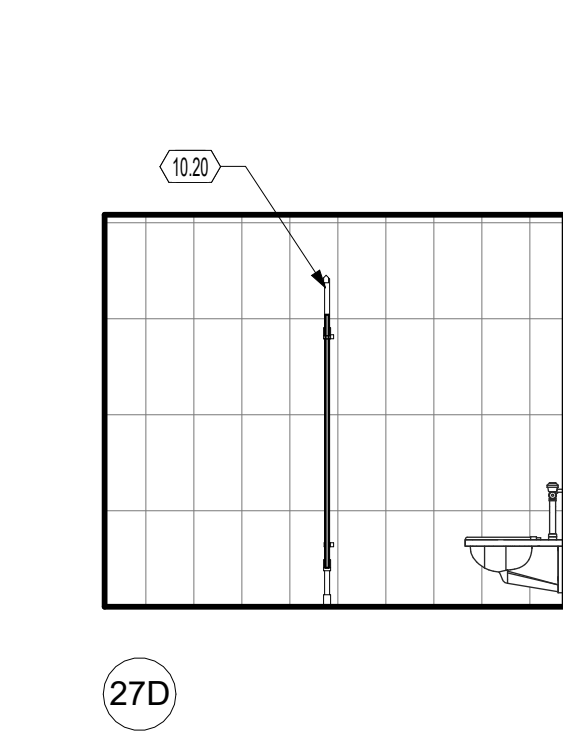
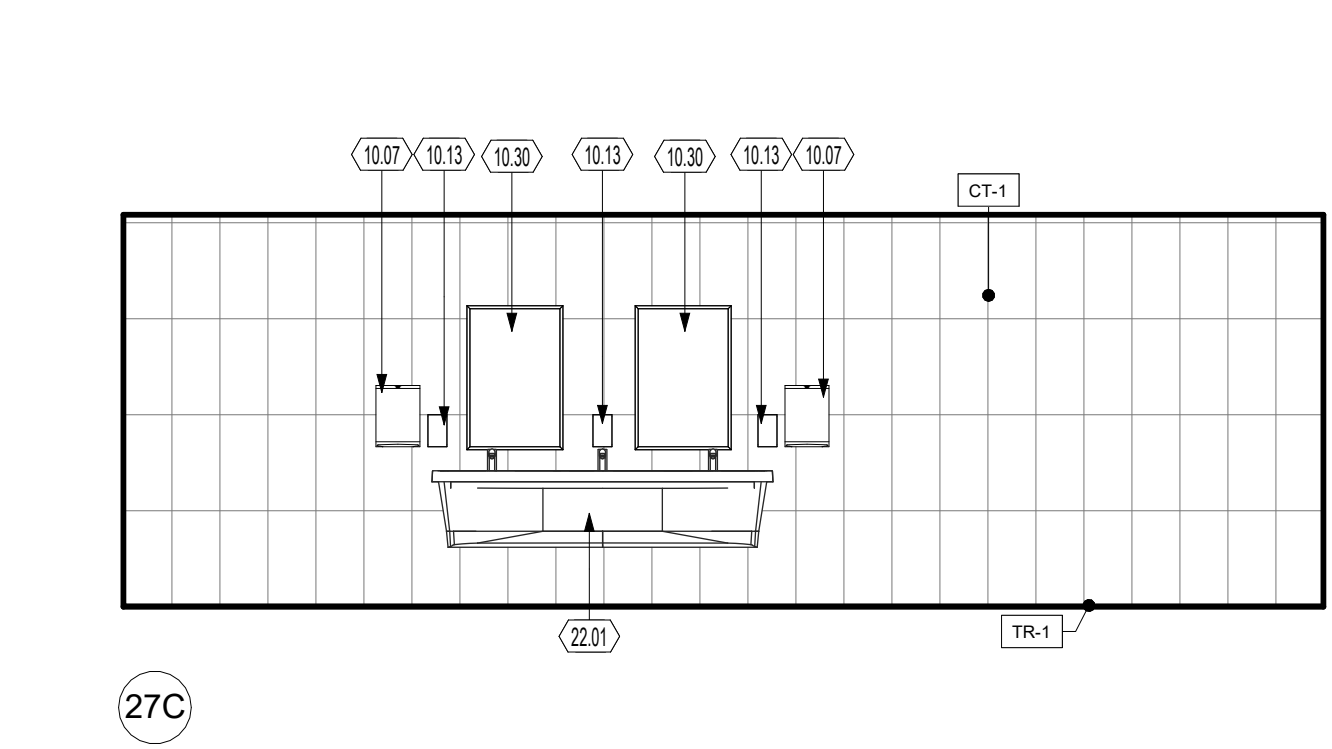
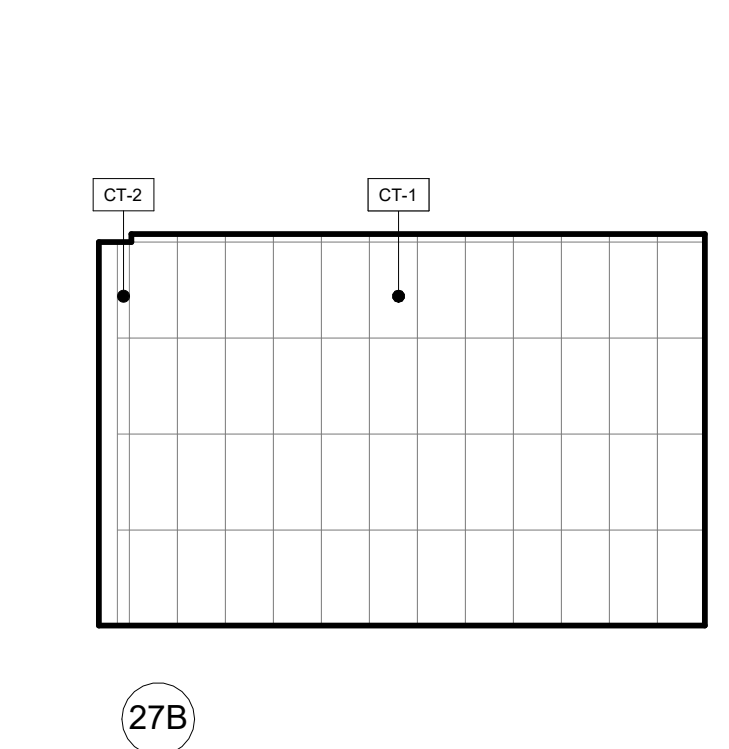
9 TILE DETAIL @ CMU
 SCALE | 3" = 1'-0"

FINISH MATERIAL SCHEDULE						
Key Name	DESCRIPTION	BASIS OF DESIGN	MODEL NAME / COLOR / MODEL NUMBER	SIZE	COMMENTS	SORTING
CEILING						
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG	CREAMAGUARD	24"X48"		CEILING
FLOORING						
BC-1	BURNISHED CONCRETE	--	--	--		FLOORING
MISC.						
SS-2	SOLID SURFACE	TERREON	POLAR ICE	-	AT SINK UNITS	MISC.
TP-1	TOILET PARTITIONS	SCRANTON PRODUCTS	ORANGE PEAL COLOR: GREY		CONTINUOUS HINGE AND FULL LENGTH WALL BRACKET. FULL LENGTH ANCHOR AT WALL.	MISC.
TR-1	COVE TRIM	SCHLUTER	DILEX AHK80AE	8MM	EXTRUDED COVE TRIM TO EXISTING FLOOR	MISC.
WALLS						
CT-1	RESTROOM WALL TILE	AMERICAN OLEAN	CRAFTER INK CF19 MATTE	12" X 24"	STACKED PATTERN WITH VERTICAL ORIENTATION	WALLS
CT-2	RESTROOM WALL TILE	AMERICAN OLEAN	CRAFTER INK CF19 MATTE	3"X24"	BULNOSED TRIM PIECE FOR OUTSIDE CORNERS AND EDGES	WALLS

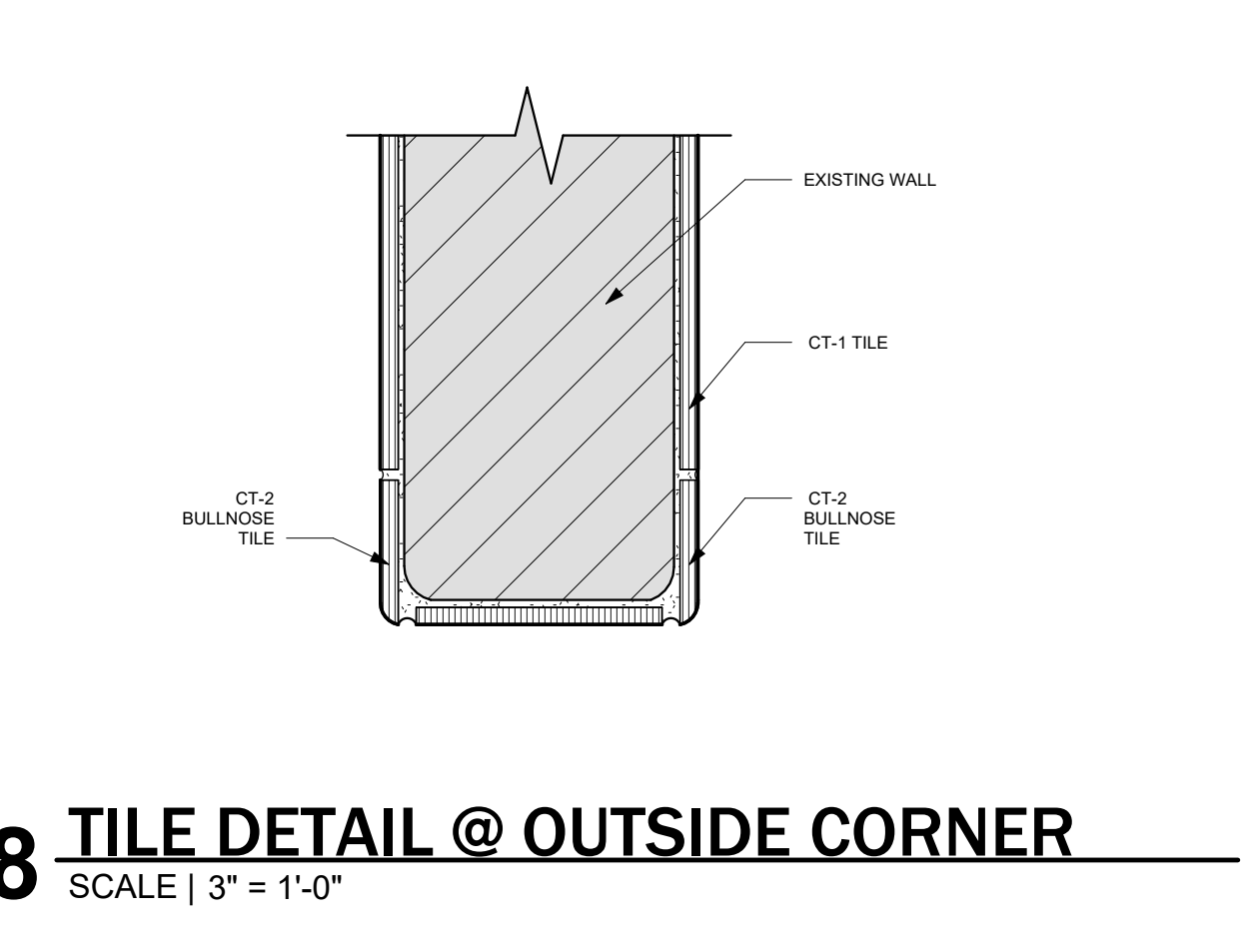
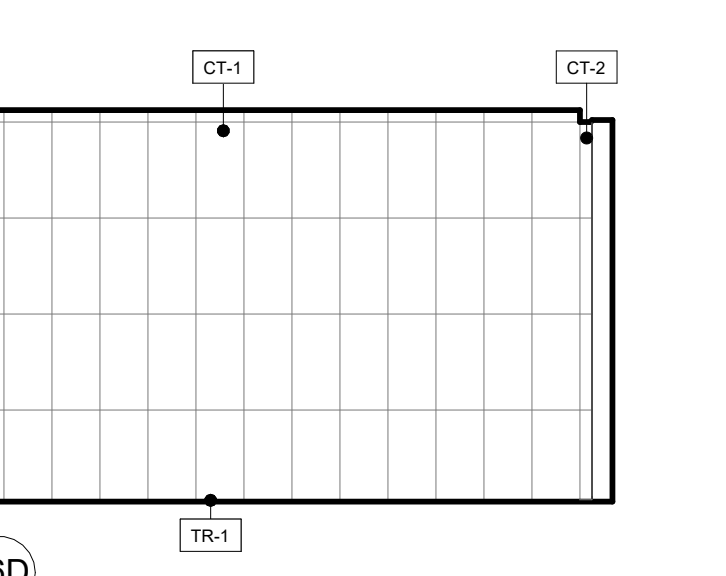
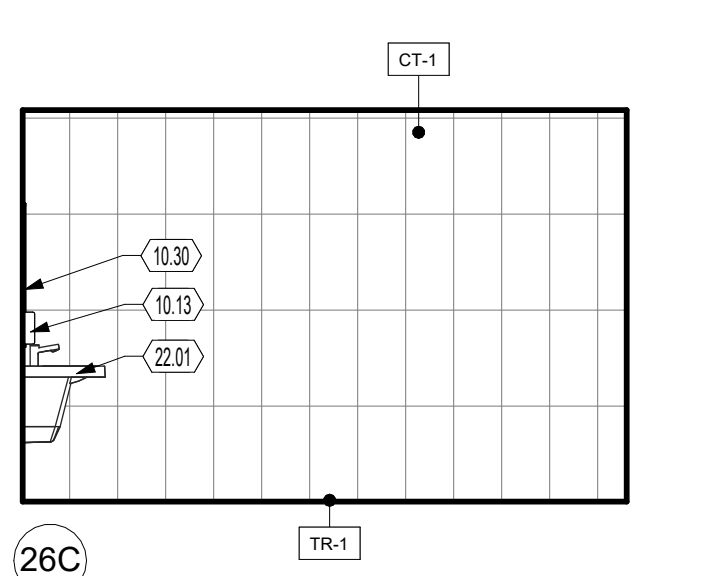
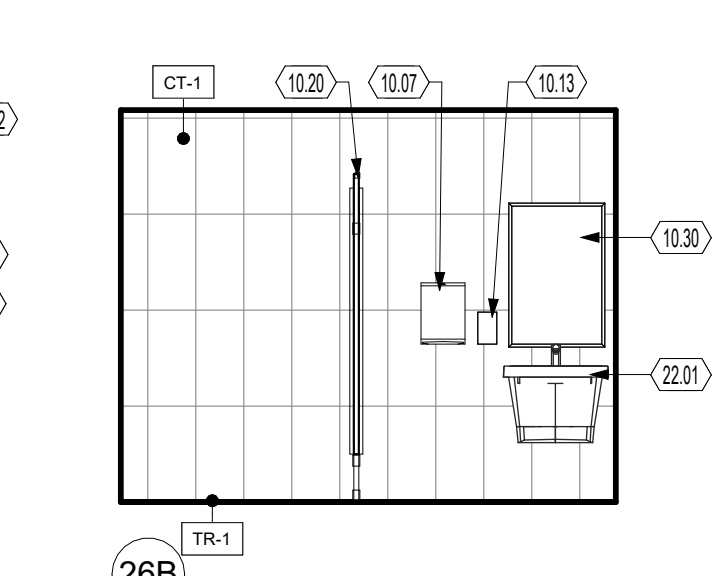
ROOM FINISH SCHEDULE									
ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	FINISHES				COMMENTS	
				NORTH	EAST	SOUTH	WEST		CEILING FINISH
100M	RESTROOM	BC-1	TR-1	PNT-1	CT-1	CT-1	CT-1	ACT-2	
100W	RESTROOM	BC-1	TR-1	PNT-1	CT-1	CT-1	CT-1	ACT-2	



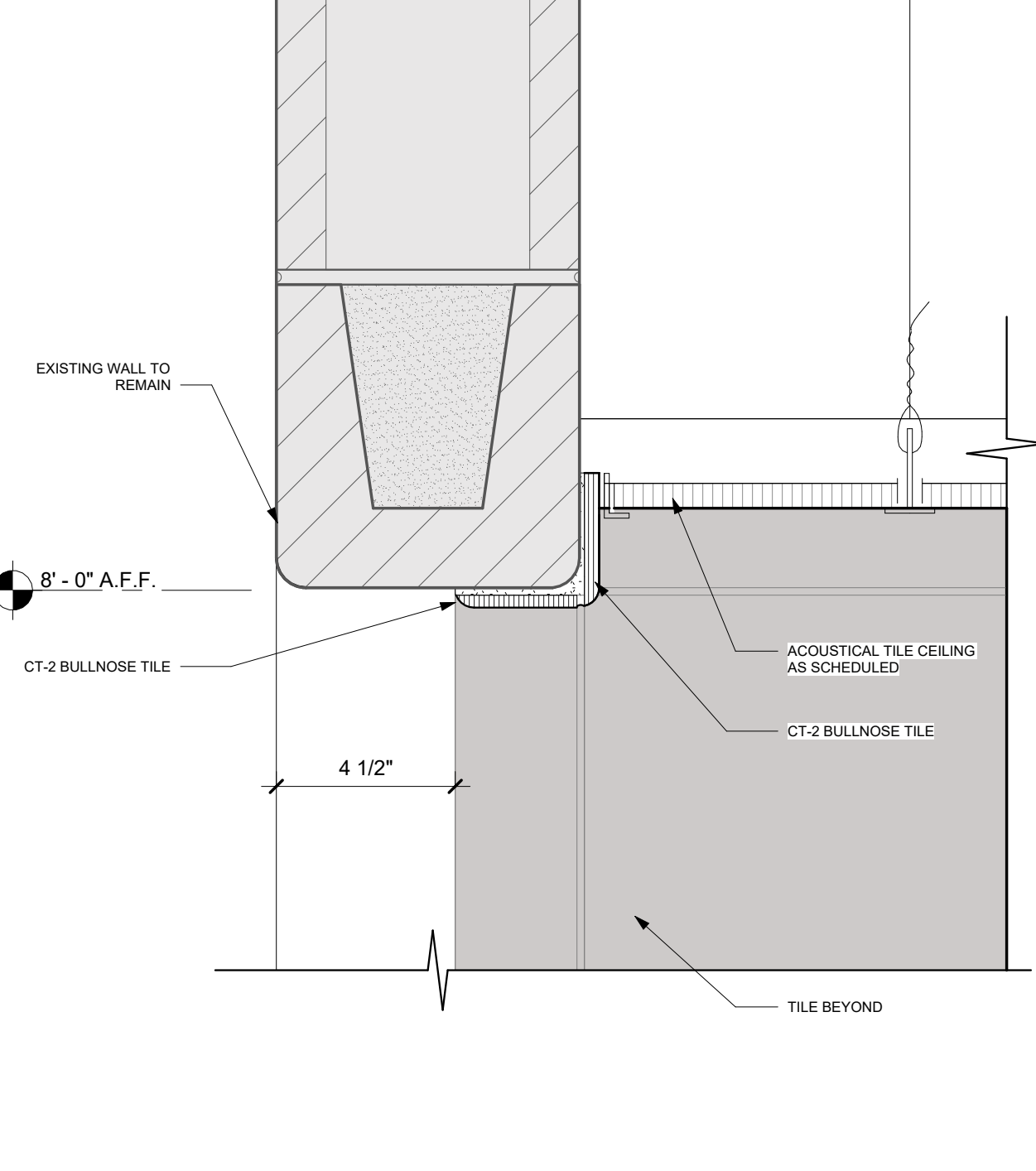
27 RESTROOM 100M ELEVATIONS
 SCALE | 1/4" = 1'-0"



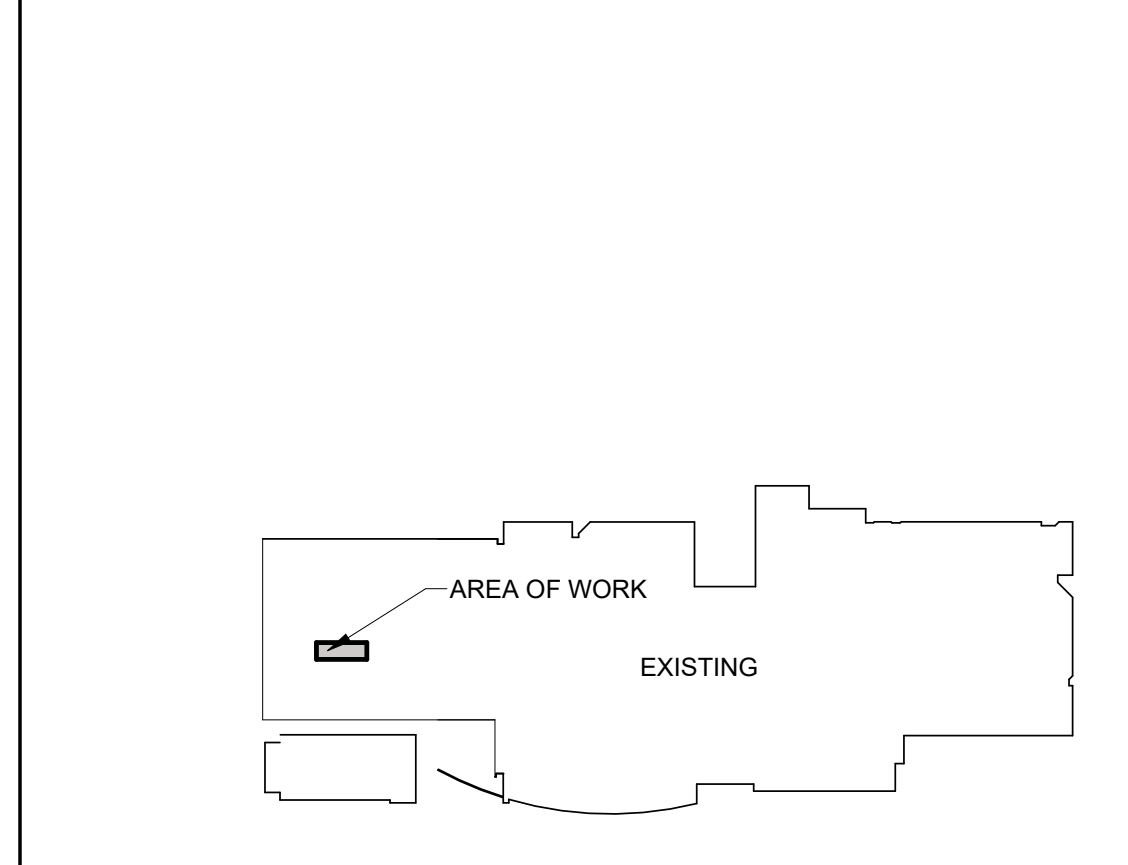
26 RESTROOM 100W ELEVATIONS
 SCALE | 1/4" = 1'-0"



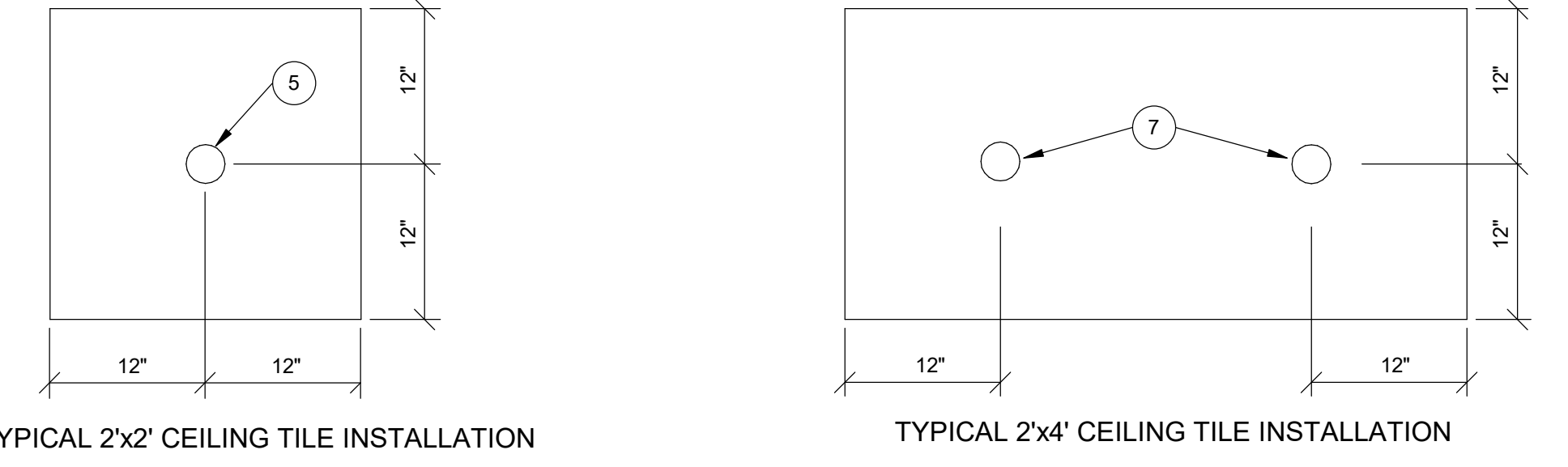
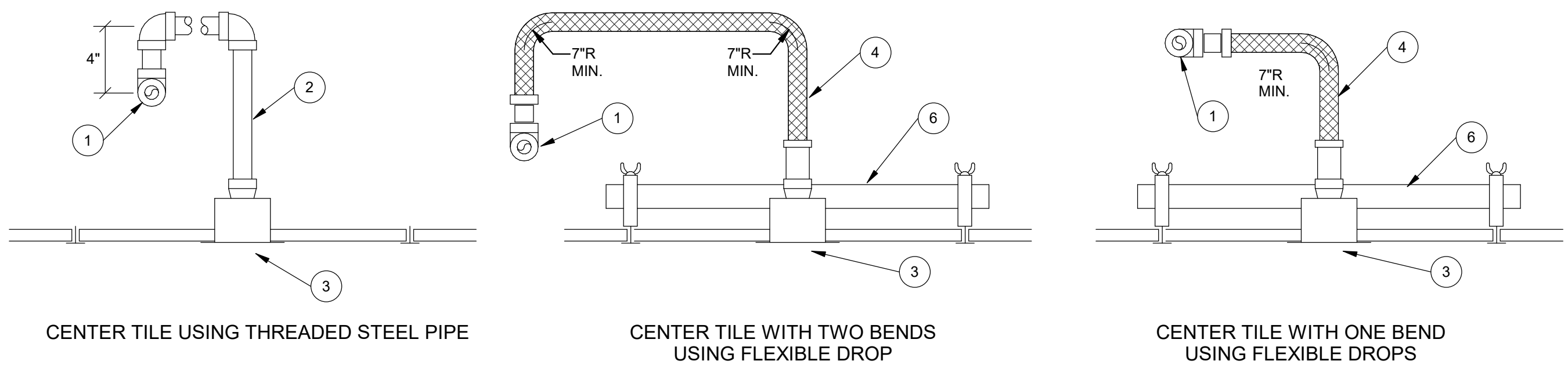
8 TILE DETAIL @ OUTSIDE CORNER
 SCALE | 3" = 1'-0"



6 CEILING DETAIL @ EXISTING OPENING
 SCALE | 3" = 1'-0"



KEY PLAN



- 1 SPRINKLER BRANCHLINE.
- 2 THREADED STEEL PIPING.
- 3 SPRINKLER HEAD. SEE DESIGN CRITERIA FOR HEAD TYPE.
- 4 FLEXIBLE SPRINKLER HOSE.
- 5 SPRINKLER HEAD MOUNTED IN CENTER OF 2'x2' CEILING TILE.
- 6 MOUNTING BRACKET PROVIDED WITH FLEXIBLE HOSE.
- 7 SPRINKLER HEAD MOUNTED AT EITHER QUARTER POINT OF CEILING TILE.

GENERAL NOTES:

FLEXIBLE SPRINKLER PIPING SHALL MEET UL STANDARDS FOR MINIMUM BEND RADIUS AND MAXIMUM NUMBER OF BENDS.

ONE BEND IS EQUAL TO ONE 90° DEGREE CHANGE IN PIPING DIRECTION.

TWO BENDS IS EQUAL TO TWO 90° DEGREE, TOTAL OF 180°, CHANGE IN PIPE DIRECTION.

REFER TO FLEXIBLE HOSE MANUFACTURERS SPECIFICATION FOR THE ALLOWABLE NUMBER OF BENDS IN PROVIDED LENGTHS OF FLEXIBLE HOSES.

THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR COORDINATING SPRINKLER BRANCH RUNS TO ALLOW FOR FM APPROVED INSTALLATION OF FLEXIBLE HOSES.

FLEXIBLE HOSES SHALL BE CONSTRUCTED WITH ANNULAR CORRUGATIONS. HELICAL CORRUGATIONS ARE NOT ACCEPTED.

DESIGN CRITERIA

- DESIGN AND INSTALLATION OF WET PIPE SPRINKLER SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2024 OHIO BUILDING CODE, N.F.P.A. 13 (2016 EDITION), AND ALL AUTHORITIES HAVING JURISDICTION (AHJ).
- WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED, SUBMITTED, AND APPROVED PRIOR TO INSTALLATION BY THE FIRE SUPPRESSION CONTRACTOR. PLANS SHALL INCLUDE ALL ITEMS LISTED IN N.F.P.A. 13.
- WATER SUPPLY DATA: THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A FLOW TEST TO OBTAIN CURRENT WATER SUPPLY DATA FROM THE NEW WATER DISTRIBUTION SYSTEM FOR USE IN THE HYDRAULIC CALCULATIONS.
- HYDRAULIC DESIGN CRITERIA FOR LIGHT HAZARD AREAS: (ALL AREAS EXCEPT WHERE NOTED OTHERWISE)
 - DENSITY: 0.10 GPM/SQ.FT.
 - DESIGN AREA: MOST DEMANDING 1500 SQ. FT. (REDUCTION WITH QUICK RESPONSE HEADS PERMITTED)
 - MAX SPRINKLER COVERAGE: 225 SQ. FT./HEAD
 - HOSE DEMAND: 100 GPM
 - DURATION: 30 MINUTES
- HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 1) AREAS: (STORAGE ROOMS, MECHANICAL ROOMS, JANITOR'S ROOMS, KITCHEN, COMMUNICATION ROOMS)
 - DENSITY: 0.15 GPM/SQ.FT.
 - DESIGN AREA: MOST DEMANDING 1500 SQ. FT.
 - MAX SPRINKLER COVERAGE: 130 SQ. FT./HEAD
 - HOSE DEMAND: 250 GPM
 - DURATION: 60 MINUTES
- HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 2) AREAS: (ADD SPECIFIC ROOM)
 - DENSITY: 0.2 GPM/SQ.FT.
 - DESIGN AREA: MOST DEMANDING 1500 SQ.FT.
 - MAX SPRINKLER COVERAGE: 130 SQ. FT./HEAD
 - HOSE DEMAND: 250 GPM
 - DURATION: 60 MINUTES
- ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
- SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE CONCEALED PENDANT TYPE WITH FLAT PLATE AND CUSTOM COLOR TO MATCH THE ADJACENT CEILING COLOR OR FINISH. / WHITE FINISH.
- SPRINKLER HEADS IN AREAS WITH NO CEILINGS SHALL BE BRASS/ CUSTOM COLOR UPRIGHTS. SIDEWALL SPRINKLER HEADS MAY ALSO BE USED IN STAIRWELLS WHERE PROPER COVERAGE CAN BE PROVIDED.

GENERAL REQUIREMENTS

- PROVIDE COMPLETE AND FUNCTIONAL FIRE SUPPRESSION SYSTEMS PER FIRE PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- BIDDERS ON FIRE SUPPRESSION WORK SHALL BE REGULARLY ENGAGED IN SPRINKLER SYSTEM WORK AND BE CERTIFIED BY THE STATE.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PERFORM A FLOW TEST TO SERVE AS THE BASIS FOR HYDRAULIC CALCULATIONS. DEVELOP HYDRAULIC CALCULATIONS AND INSTALLATION DRAWINGS NEEDED TO OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION. CALCULATIONS SHALL INCLUDE A 10% SAFETY FACTOR.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

GENERAL NOTES

- BUILDING IS CURRENTLY FULLY SUPPRESSED. MODIFY/EXTEND THE EXISTING SPRINKLER SYSTEM THROUGHOUT THE AREA(S) OF RENOVATION TO PROVIDE PROPER COVERAGE. BUILDING SHALL BE CONSIDERED FULLY SUPPRESSED AT COMPLETION OF PROJECT.
- ALL FIRE SUPPRESSION EQUIPMENT SHALL BE UL LISTED FOR FIRE SUPPRESSION SERVICE.
- PROVIDE A FIRE WATCH IN ACCORDANCE WITH "AHJ" REQUIREMENTS.
- ALL FIRE SUPPRESSION SYSTEMS (SERVICE MAIN, FIRE DEPT CONNECTION, SPRINKLER SYSTEM, INSPECTOR TEST, DRAIN, ETC.) SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST TO ALLOW AHJ TO WITNESS ALL TESTS.
- ALL VALVES CONTROLLING WATER SUPPLIES ARE CURRENTLY PROVIDED WITH TAMPER SWITCHES (SEE NOTE E).
- THE FIRE SPRINKLER SYSTEM IS CURRENTLY SUPERVISED BY AN APPROVED CENTRAL STATION FIRE ALARM SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.
- THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE WIRING OF ELECTRICAL FIRE SUPPRESSION DEVICES AND EQUIPMENT WITH THE ELECTRICAL AND/OR FIRE ALARM CONTRACTOR. ALL FIRE ALARM WIRING BY ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR.
- THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES PRIOR TO INSTALLATION.
- THE FIRE SUPPRESSION CONTRACTOR SHALL CENTER (WITHIN 1") ALL CONCEALED SPRINKLER HEADS INSTALLED IN ACOUSTICAL LAY. IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.
- VERIFY THE LOCATION AND TYPE OF FIRE DEPARTMENT CONNECTION WITH THE FIRE DEPARTMENT.
- LOCAL SPRINKLER ALARM AND REMOTE ALARM AND SUPERVISION SHALL BE THRU THE FIRE ALARM SYSTEM PROVIDED BY THE E.C.
- CONCEALED, NONCOMBUSTIBLE ATTIC SPACES DO NOT REQUIRE SPRINKLERS.
- FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AHJ.

GENERAL LEGEND

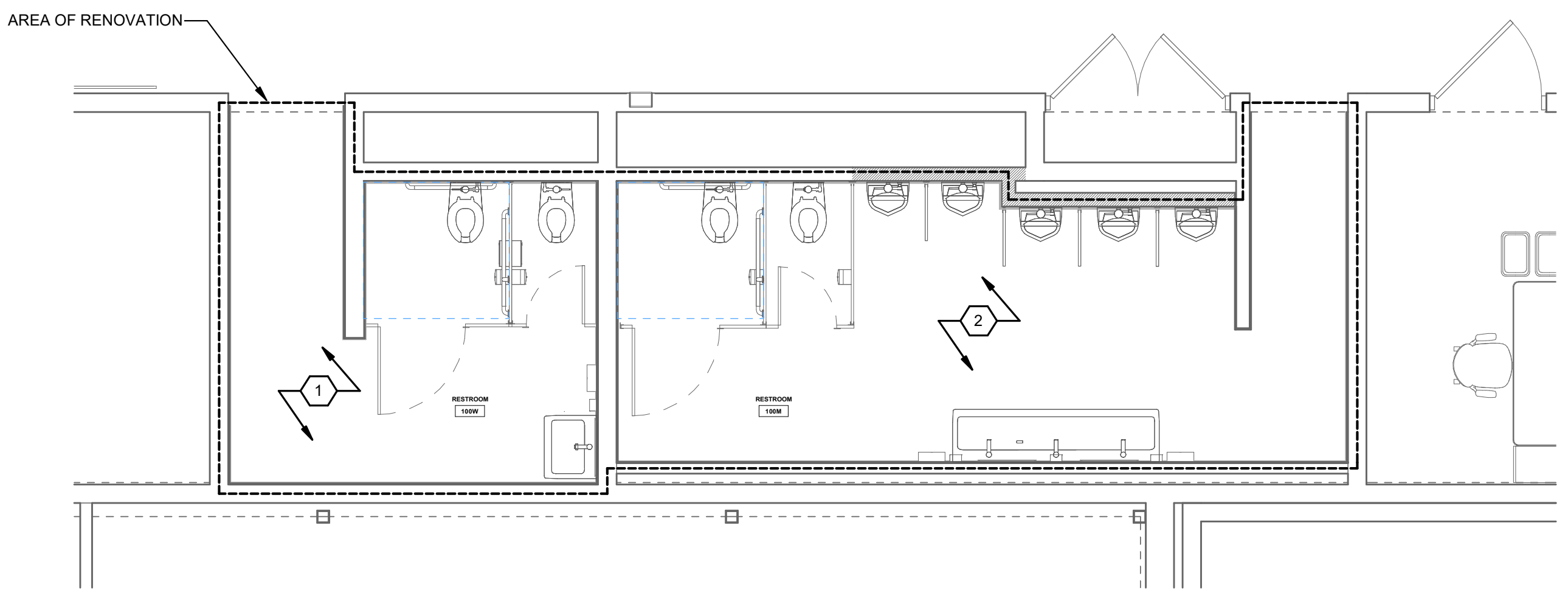
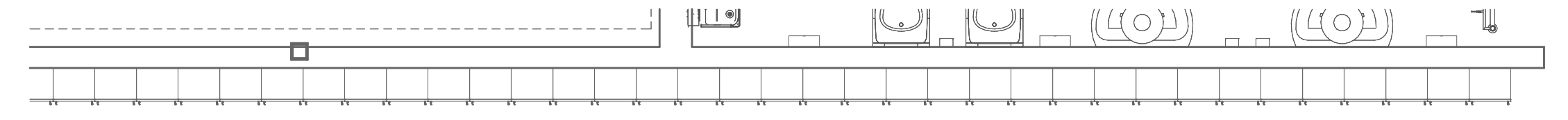
EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B H2	DETAIL SYMBOL
B	DETAIL "B" SHOWN ON SHEET H2.
A H1	SECTION SYMBOL
A	SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
FD1	UP TO SYMBOL
FD1	UP TO "FD1", SHOWN ON FLOOR ABOVE.
---	1 HOUR FIRE PROTECTION
---	SEE SPECIFICATION FOR PENETRATION DETAILS
---	2 HOUR FIRE PROTECTION
---	SEE SPECIFICATION FOR PENETRATION DETAILS
---	3 HOUR FIRE PROTECTION
---	SEE SPECIFICATION FOR PENETRATION DETAILS
---	ITEM TO BE REMOVED.
---	EXISTING TO REMAIN.
---	NEW ITEM.

INDEX OF DRAWINGS

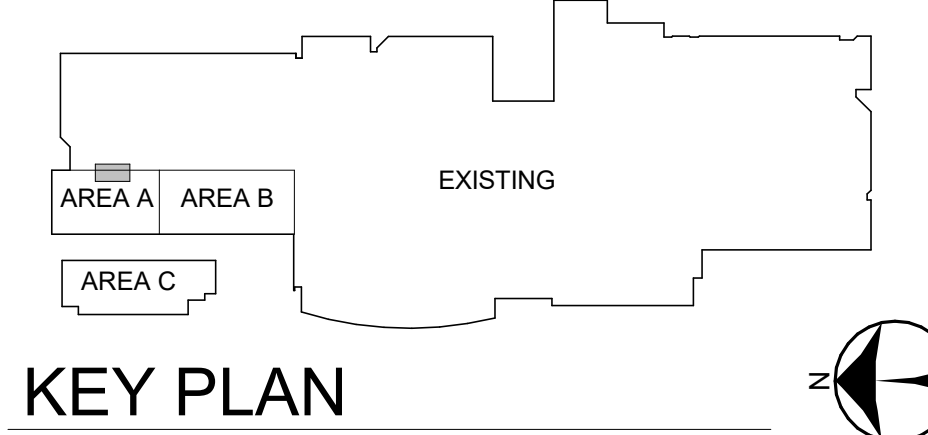
SHEET	DRAWING TITLE
FR001	LEGENDS, SCHEDULES, & PLAN

CONSTRUCTION NOTES

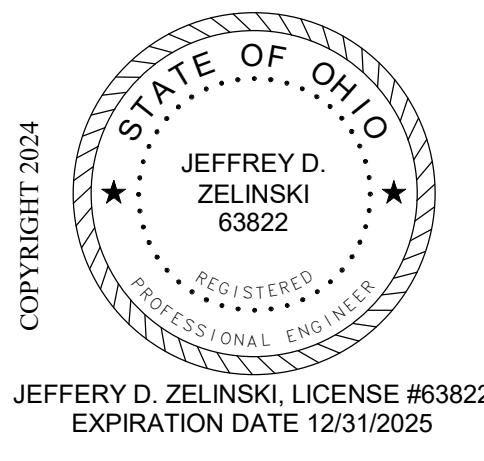
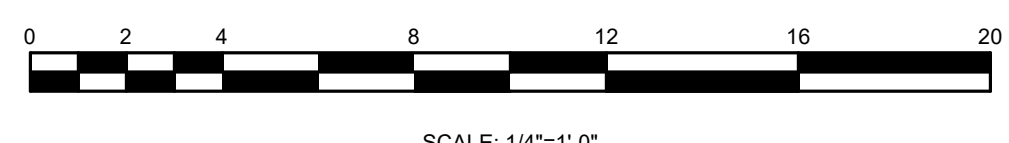
- WOMEN'S RESTROOM: RELOCATE EXISTING FIRE SUPPRESSION ARM-OVERS TO COORDINATE WITH NEW CEILING GRID.
- MEN'S RESTROOM: REMOVE UPRIGHT PENDANT SPRINKLER HEADS AND PROVIDE NEW ARM-OVERS TO SPRINKLER HEADS IN NEW LAY-IN CEILING.



FIRE SUPPRESSION PLAN
SCALE: 1/4" = 1'-0"



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



REVISIONS:

Number	Description	Date

PRINTINGS:

ID/PERMIT	DATE

CONSULTANTS

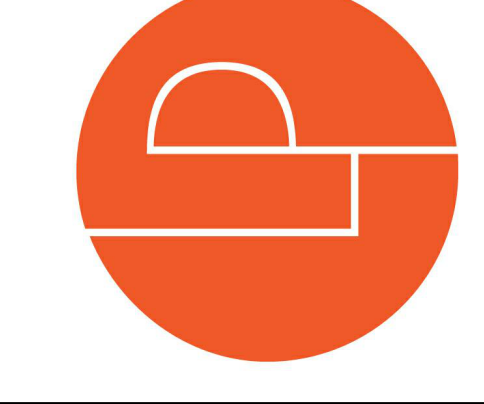
NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street, Suite 400 Dayton, Ohio 45402
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UPPER VALLEY CAREER CENTER
HEALTH SCIENCE BUILDING ADDITION
-EARLY SITE AND RESTROOM RENOVATION

8811 Career Dr., Piqua, OH 45356

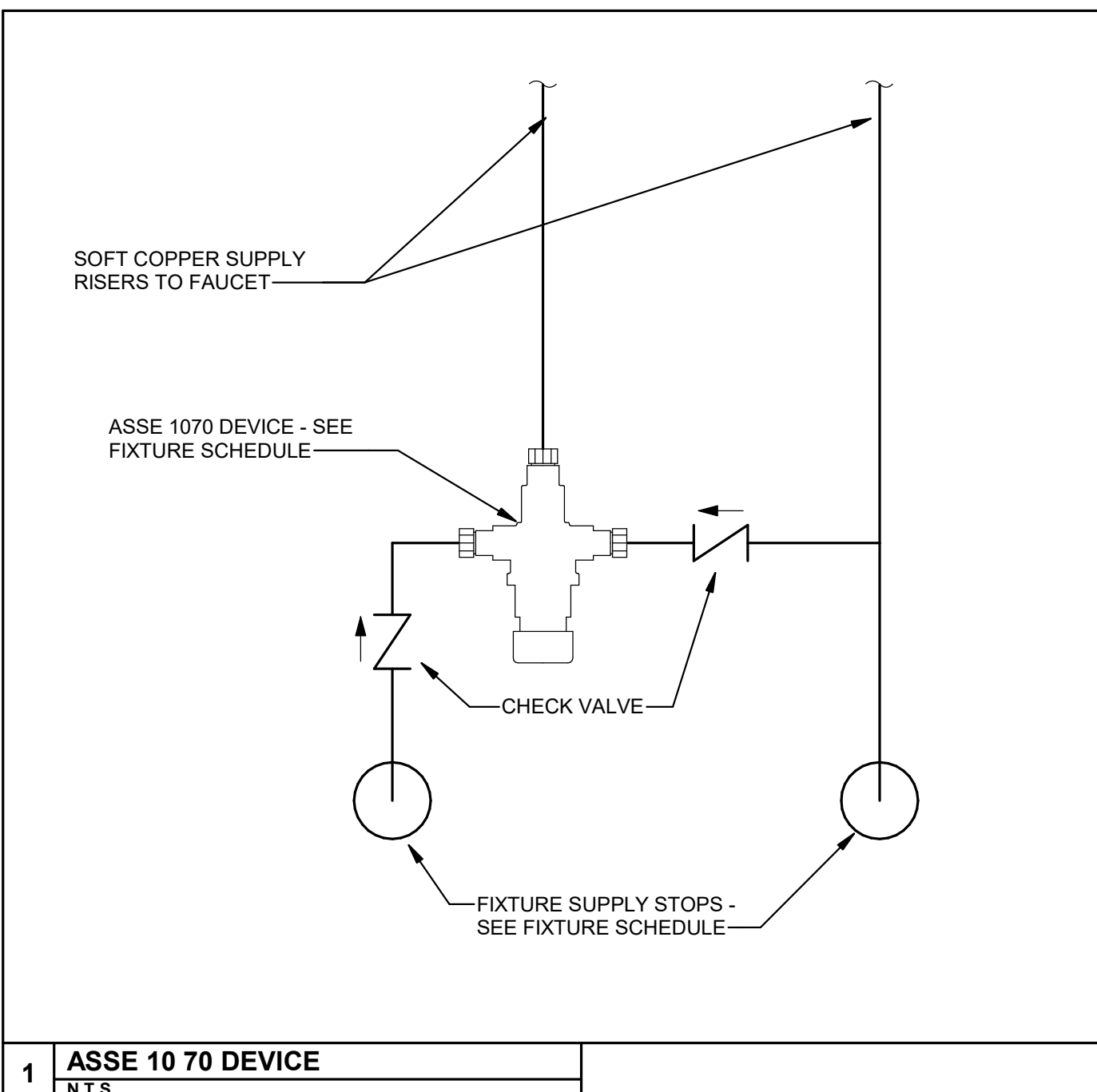
PROJECT NO: 233448.00
CHECKED BY: JZ
DRAWN BY: DJZ
DATE: 03/22/2024

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LEGENDS, SCHEDULES, & PLAN

FR001



PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE DESCRIPTION	FIXTURE	SERVICES				MTG. HGT.	TRIM REQUIREMENTS						NOTES
			H.W.	C.W.	SAN.	VENT		SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES	
W1	WATER CLOSET/ VIT. CHINA/ WALL HUNG/ MANUAL FLUSH VALVE/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG MAP SCORE/ OPEN FRONT SEAT WITH LID	AM. STANDARD # 3043.001	-	NOTE 3	NOTE 3	NOTE 3	15"	SLOAN # SLOAN 111-1.6	UNIT	UNIT	INTEGRAL	EXISTING	SEAT BEMIS #1950SS	
W2	WATER CLOSET/ VIT. CHINA/ WALL HUNG/ MANUAL FLUSH VALVE/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG MAP SCORE/ OPEN FRONT SEAT WITH LID/ ACCESSIBLE	AM. STANDARD # 3043.001	-	NOTE 3	NOTE 3	NOTE 3	17"	SLOAN # SLOAN 111-1.6	UNIT	UNIT	INTEGRAL	EXISTING	SEAT BEMIS #1950SS	
U1	URINAL/ VIT. CHINA/ WALL HUNG/ WASHOUT/ MANUAL FLUSH VALVE/ 0.25 GPF	AM. STANDARD # 6590.001	-	0.75"	2"	1.5"	NOTE 1	SLOAN # SLOAN 186-0.25	UNIT	UNIT	INTEGRAL	NOTE 1	---	1
L1	LAVATORY SYSTEM / THREE FAUCETS / CONTINUOUS SOLID SURFACE / INFRARED SENSORS / WALL HUNG / MIXING VALVE / INTEGRAL P-TRAPS / THERMOSTATIC MIXING VALVE	BRADLEY TLX-3-C1-S53-3300-R-T-5-PC-AC-NSD-COAL-C W-CHROME	NOTE 3	NOTE 3	NOTE 3	NOTE 3	34"	W/ FIXTURE	EXISTING	INTEGRAL	INTEGRAL	W/ FIXTURE	W/ FIXTURE	2, 3
L2	LAVATORY SYSTEM / ONE FAUCET / ELECTRONIC FAUCET / WALL HUNG / MIXING VALVE / INTEGRAL P-TRAP / THERMOSTATIC MIXING VALVE	BRADLEY TLX-1-C1-S53-3300-R-T-5-PC-AC-NSD-COAL-C W-CHROME	NOTE 3	NOTE 3	NOTE 3	NOTE 3	34"	W/ FIXTURE	EXISTING	INTEGRAL	INTEGRAL	W/ FIXTURE	W/ FIXTURE	2, 3

EQUALS
 AMERICAN STANDARD CHINA - KOHLER, ZURN, SLOAN
 SLOAN FLUSH VALVES - ZURN, DELANEY
 WATTS - LEONARD, ZURN

NOTES:
 1. INSTALL NEW URINALS ON EXISTING CARRIERS. MODIFY HANGER HEIGHT TO NEW FIXTURE AS REQUIRED FOR INSTALLATION.
 2. COLOR SELECTIONS BY ARCHITECT.
 3. REUSE EXISTING SERVICES. MODIFY AS REQUIRED TO INSTALL NEW FIXTURE.

1 ASSE 1070 DEVICE
 N.T.S.

PIPE INSULATION SCHEDULE - PLUMBING

GENERAL NOTES:
 QUALITY ASSURANCE
 FIRE, SMOKE RATINGS: FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS.
 THICKNESSES SHALL CONFORM TO ASHRAE 90.1-2010 MINIMUMS.
 GREEN GUARD INDOOR AIR QUALITY CERTIFIED.

EXECUTION
 INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
 COLD SERVICE PIPE INSULATION AND VAPOR BARRIER/JACKET TO BE CONTINUOUS THRU FLOOR AND WALL SLEEVES AT ALL PIPE DEVICES AND PUMP CASINGS.
 INSULATION AND VAPOR BARRIER TO BE CONTINUOUS AT PIPE HANGERS AND SUPPORTS ON HORIZONTAL PIPING. PROVIDE HARDWOOD INSERT SUPPORT FOR PIPES 2.5" AND LARGER.

VERTICAL PIPE SUPPORTS SHALL ATTACH DIRECTLY TO PIPE. INSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE CLOSED CELL INSULATION, SAME THICKNESS AS SYSTEM INSULATION ON COLD SERVICE PIPES TO PREVENT CONDENSATION.

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
DOMESTIC COLD WATER 1.5" & SMALLER	0.5"	F1	INTERIOR
DOMESTIC COLD WATER 2" & LARGER	1"	F1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS-CORNING SSL1-A.SJ	KNAPF 1000" PIPE, JOHNS MANVILLE MICRO-LOK HP	* INORGANIC GLASS FIBER WITH RESIN BONDING. * K=0.24 @ 100 DEG. F. * 3.5 - 5.0 GPF * PREFORMED TUBULAR * WHITE FSRK JACKET * LONGITUDINAL LAP WITH SELF-SEALING ADHESIVE * ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOULDED 2550 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.

VALVE SCHEDULE

GENERAL NOTES FOR VALVES:
 QUALITY ASSURANCE
 VALVES SHALL COMPLY WITH ANSI, ASTM AND ASME.
 VALVES ON DOMESTIC WATER SYSTEMS SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.
 GROOVED END VALVES SHALL CONFORM TO ANSIAWWA C-606.

PRODUCTS
 WORKING PRESSURES SHALL EXCEED THOSE IMPOSED BY THE SERVICE APPLIED.
 VALVES WHICH ARE INSULATED SHALL HAVE EXTENDED SHAFTS.
 PROVIDE FLOW MEASURING GAUGES WITH COCKS, HOSES & CONNECTORS FOR BALANCING VALVES. PROVIDE METERING TOOL.
 PROVIDE HOSE ADAPTORS ON DRAIN VALVES.
 SWEAT END VALVES OF EQUAL CONSTRUCTION ARE ACCEPTABLE IN LIEU OF SCREWED ENDS.
 IN MECHANICALLY JOINED SYSTEMS, VALVES OF EQUAL CONSTRUCTION WITH COMPATIBLE ENDS ARE ACCEPTABLE AND MAY BE MANUFACTURED BY THE COUPLING MANUFACTURER.

VALVE MANUFACTURERS:
 BALL VALVES - NIBCO, WATTS, MILWAUKEE, APOLLO, CRANE
 BALANCING VALVES - BELL & GOSSETT, ARMSTRONG, WATTS
 CHECK VALVES - NIBCO, STOCKHAM, WATTS
 LUB. PLUG VALVES - NORDSTROM, DURCO, HOMESTEAD, DEZURICK, NEWMAN-MILLIKEN

EXECUTION
 VALVES SHALL BE INSTALLED WITH STEM ABOVE CENTERLINE OF PIPE.

PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	LUB. PLUG
DOMESTIC WATER (CW, HW, & HWV) 2" AND SMALLER		B11	C11		E11	
INTERIOR NATURAL GAS 3" AND SMALLER		B17				P11
INTERIOR NATURAL GAS 4" AND LARGER						
EXTERIOR NATURAL GAS 3" AND SMALLER		B18				
EXTERIOR NATURAL GAS 4" AND LARGER						P11

TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
B11	NIBCO T-585-80-LF, 150 W.S.P., TWO-PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND BRONZE STEM, TFE SEAT AND SEAL HANDLE, NSF/ASME 61	B18	NIBCO T-585-80-LF, 150 W.S.P., TWO-PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND BRONZE STEM, TFE SEAT AND SEAL HANDLE, NSF/ASME 61	E11	BELL & GOSSETT CB-1F 400 PSI BRONZE BODY WITH BRASS BALL, SCREW CONNECTION, READOUT & DRAIN PORTS, TFE SEATS, CALIBRATED NAMEPLATE, HANDLE WITH MEMORY STOP, NSF/ASME 61
B17	NIBCO T-419-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.44	C11	NIBCO T-419-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT, HANDLE, UL LISTED FOR GAS, ASME B16.44	P11	NORDSTROM NO. 143, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH

BUILDING SUPPLY SYSTEMS SCHEDULE WATER, COMPRESSED AIR, & GAS

GENERAL NOTES:
 QUALITY ASSURANCE
 PIPING SHALL CONFORM TO OBC & IFGC REQUIREMENTS.
 PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".
 ALL COMPONENTS OF DOMESTIC WATER SYSTEMS (CW, HW, & HWV) SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.
 CONTACT THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2784) OR (811) WELLS IN ADVANCE OF THE START OF UNDERGROUND UTILITY WORK.

PRODUCTS
 DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.
 GAS PRESSURE REGULATORS SHALL BE CAST IRON SELF-OPERATING SPRING LOADED TYPE, VALVE 125 PSI, SPRING AND DIAPHRAGM CASINGS SHALL BE ALUMINUM. REGULATOR SHALL HAVE AN INTERNAL RELIEF VALVE ASSEMBLY, TAPPED VENT CONNECTION WITH REMOVABLE SCREEN ON THE SPRING CASING AND AN EXTERNAL PILOT OPERATOR TO AFFORD A 5% MAXIMUM DROOP. OVER-PRESSURE PROTECTION SHALL BE TEN TIMES THE INLET PRESSURE (OR HIGHER AS MAY BE REQUIRED BY THE GAS COMPANY). FISHER TYPE S102 OR S202 OR EQUAL BY SPRAGUE OR EQUIVALENT.
 UNIONS
 COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS
 THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS.
 MECHANICALLY FORMED TEES AND COUPLINGS (T-DRILL) ARE NOT PERMITTED.

EXECUTION
 PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.
 ANNUAL SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.
 PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.
 PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.
 PIPING SHALL BE PITCHED FOR DRAINAGE.
 CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.
 MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 GAS PRESSURE REGULATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE VALVED GAUGE TAPS UPSTREAM AND DOWNSTREAM OF THE REGULATOR. VENT PIPING SHALL BE EXTENDED INDIVIDUALLY FROM EACH REGULATOR AND GAS VENTING DEVICE TO OUTSIDE THE BUILDING IN AN APPROVED LOCATION.
 SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.
 CLEAN INTERIOR WATER PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.
 ALL NEW AND EXISTING DOMESTIC WATER PIPING SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651-86. DOMESTIC WATER PIPING SHALL BE SANITIZED PRIOR TO PUTTING SYSTEM IN OPERATION BY A COMPANY OR PERSONNEL REGULARLY ENGAGED IN THE PERFORMANCE OF THIS SERVICE.
 EXTERIOR NATURAL GAS PIPING SHALL BE PAINTED WITH 2 LAYERS OF GRAY PAINT. INTERIOR NATURAL GAS PIPING SHALL BE PAINTED WITH 2 LAYERS OF WHITE PAINT.

TESTING
 DOMESTIC WATER PIPING - 125 PSI FOR MIN. 6 HOURS AT THE LOW POINT IN THE SYSTEM.
 NATURAL GAS PIPING - 100 PSI COMPRESSED AIR FOR 6 HOURS.

PIPING SYSTEM	TYPE
DOMESTIC COLD HOT AND RECIRCULATING WATER	C5
NATURAL GAS ABOVE GRADE	S1
NATURAL GAS BELOW GRADE	PE1

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS	S1	WELDED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE WROUGHT-STEEL WELDING FITTINGS - ASTM A 234/A 234M 150 LB. C.I. FITTINGS
PE1	POLYETHYLENE PE 2708 ASTM D2513 HEAT FUSION JOINTS - ASTM D2513		

PIPE HANGER SCHEDULE - PLUMBING

GENERAL NOTES FOR PIPE HANGERS:
 DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND TEST WATER.
 DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.
 WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE, SECTION IX.
 ATTACHMENT OF PIPE HANGER RODS TO THE STRUCTURE SHALL BE WITH:
 1. PRE-SET CONCRETE INSERTS.
 2. AFTER-SET STEEL EXPANSION TYPE CONCRETE INSERTS.
 3. BEAM CLAMPS FOR STEEL CONSTRUCTION EQUAL TO ANVIL FIG. 92, 83, OR 94. UTILIZE SWIVEL TYPE IN SLOPED STEEL CONSTRUCTION TO PROVIDE VERTICAL SUPPORT OF PIPE WITHOUT BENDING HANGER RODS.
 4. SIDE BEAM BRACKET FOR WOOD CONSTRUCTION EQUAL TO ANVIL FIG. 206.
 5. CHANNEL SUPPORT SYSTEM EQUAL TO UNISTRUT OR HILT.
 ATTACHMENT TO MANUFACTURED TRUSSES AND OTHER ENGINEERED STRUCTURAL MEMBERS AND SUPPORTS SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR TYPE OF ENGINEERED STRUCTURAL SYSTEMS BEING USED. CONNECTIONS TO THESE STRUCTURAL MEMBERS SHALL BE MADE WITH CONNECTION DEVICES AND METHODS APPROVED BY THE STRUCTURAL MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS WITH SUPPLEMENTAL STEEL SHAPES WHEN SPACING BETWEEN STRUCTURAL MEMBERS EXCEEDS SPECIFIED DISTANCES.
 ADJUST PIPE HANGERS TO PROPER ELEVATION AND SET HANGER RODS IN A VERTICAL POSITION BEFORE PIPE INSULATION IS INSTALLED.
 THE FIRST TWO HANGERS ON PIPING CONNECTING TO MOTOR DRIVEN EQUIPMENT SHALL BE FITTED WITH A STEEL SPRING AND NEOPRENE VIBRATION ISOLATION SECTION SIMILAR TO MASON INDUSTRIES, NO. 50N.
 TRAPEZE HANGERS FOR NUMEROUS PIPES RUN IN PARALLEL MAY BE UTILIZED. HORIZONTAL SUPPORT MEMBERS SHALL BE UNISTRUT TYPE SECTION WITH PIPE ROLLERS (TO ALLOW FOR EXPANSION TRAVEL) AND SPRING AND NUT CONNECTORS, SUSPENDED WITH HANGER RODS AND ATTACHMENTS SIMILAR TO INDIVIDUAL PIPE HANGER SUSPENSION.
 SHORTENED EXTENDED LEGS OF PIPE RISER CLAMPS AS NEEDED TO MAINTAIN CONCEALMENT OF THE CLAMP WITHIN THE PIPE CHASE. INSURE THAT ADEQUATE SUPPORT IS STILL MAINTAINED.
 HANGER ASSEMBLIES EXPOSED ON COMPLETION OF THE PROJECT SHALL BE PAINTED BEFORE INSTALLATION.
 PIPE SUPPORTS FOR PIPE RUNNING ACROSS THE ROOF SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND AS DETAILED. INSTALL PROTECTIVE SLP SHEETS OF ROOFING MEMBRANE UNDER THE BASES TO SATISFY REQUIREMENTS OF BOTH THE ROOFING MANUFACTURER AND THE SUPPORT SYSTEM MANUFACTURER.
 IN PIPING SYSTEMS WITH MECHANICAL JOINT COUPLINGS, PIPE HANGERS SHALL BE PROVIDED ON HORIZONTAL PIPING AT NORMAL SPECIFIED INTERVALS AND, IN ADDITION, SO THAT NO PIPE SHALL BE LEFT UNSUPPORTED BETWEEN ANY TWO COUPLINGS NOR LEFT UNSUPPORTED WHENEVER A CHANGE IN DIRECTION TAKES PLACE. VERTICAL PIPING SHALL BE SUPPORTED AT NORMAL SPECIFIED INTERVALS OR EVERY OTHER PIPE LENGTH, WHICH EVER IS MORE FREQUENT. THE BASE OF THE RISER OR BASE FITTING SHALL BE SUPPORTED.

SYSTEM & SIZE	ORIENTATION & SIZE	SPACING
STEEL PIPING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 2" & SMALLER	8 FT.
	HORIZONTAL 2.5" - 6"	10 FT.
	HORIZONTAL 8" & LARGER	12 FT.
CAST IRON	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL	AT 10 FT. INTERVALS. SUPPORT EACH LENGTH OF PIPE NOT MORE THAN 18" FROM THE JOINT. SUPPORT TERMINAL ENDS OF HORIZONTAL RUNS AND BRANCHES AND EACH CHANGE IN DIRECTION. 5" AND LARGER PROVIDE BRACING TO PREVENT HORIZONTAL MOVEMENT IN ACCORDANCE WITH CISPI "SOIL PIPE AND FITTINGS HANDBOOK"
COPPER TUBING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 1.25" & SMALLER	6 FT.
	HORIZONTAL 1.5" - 2"	8 FT.
PLASTIC PIPING	HORIZONTAL 2.5" & LARGER	10 FT.
	HORIZONTAL	PER MANUFACTURER'S RECOMMENDATION

GENERAL REQUIREMENTS

- PROVIDE COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS PER PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND OHIO PLUMBING CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- CUT EXISTING FLOOR SLAB AND REPLACE TO MATCH EXISTING GRADE, MATERIALS, AND FINISH. EXCAVATE FOR ALL IN GRADE UNDERFLOOR PIPING, BACKFILL AND REPLACE SLAB TO MATCH ADJACENT SURFACE OR GRADE. PUMP WATER FROM EXCAVATIONS AND TRENCHES DURING CONSTRUCTION. EXISTING SERVICES ENCOUNTERED DURING EXCAVATION WORK SHALL BE PROTECTED. ANY SERVICES DAMAGED SHALL BE REPAIRED OR REPLACED. PIPE SHALL BE LAID ON A 6" MINIMUM SAND BED. BACKFILLING OF TRENCHES SHALL BE WITH GRADED PEA GRAVEL OR GRADED COURSE SAND. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
- PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNUAL SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNUAL SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN PDF FORMAT FOR THE ENGINEER'S APPROVAL. FOR ALL MATERIALS AND EQUIPMENT, SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

GENERAL LEGEND

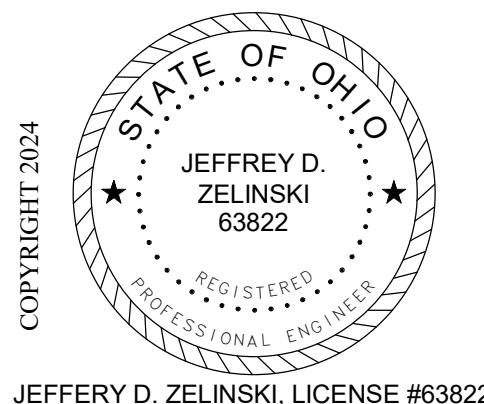
- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- WP WEATHER PROOF.
- NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
- ROOM NUMBER.
- DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET H2.
- SECTION SYMBOL. SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
- CONNECTION, NEW TO EXISTING.
- UP TO SYMBOL. UP TO "FD1", SHOWN ON FLOOR ABOVE.
- 1 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS.
- 2 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS.
- 3 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS.
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

PLUMBING LEGEND

- COLD WATER
- NATURAL GAS
- SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
- CHECK VALVE
- BALANCING VALVE
- VALVE ON RISER
- UNION, SCREWED
- REGULATOR
- PRESSURE GAUGE
- CONNECTION, BOTTOM
- CONNECTION, TOP
- DIRECTION OF FLOW
- CAP

PLUMBING INDEX OF DRAWINGS

SHEET	DRAWING TITLE
PR001	LEGENDS AND SCHEDULES
PR200	SITE PLAN
PR201	AREA B WORK PLAN



JEFFERY D. ZELINSKI, LICENSE #63822
 EXPIRATION DATE 12/31/2025

REVISIONS:

Number	Description	Date
03.22.2024		

PRINTINGS:

ID/PERMIT	SUBMITTAL

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UPPER VALLEY CAREER CENTER
 HEALTH SCIENCE BUILDING ADDITION
 -EARLY SITE AND RESTROOM RENOVATION

PROJECT NO: 233448.00
 CHECKED BY: JUD
 DRAWN BY: D.J.Z.
 DATE: 03.22.2024

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 MIDDLETOWN, OHIO 45342
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 Levin Porter Architects Inc. dba: Levin Porter Architects



LEGENDS AND SCHEDULES

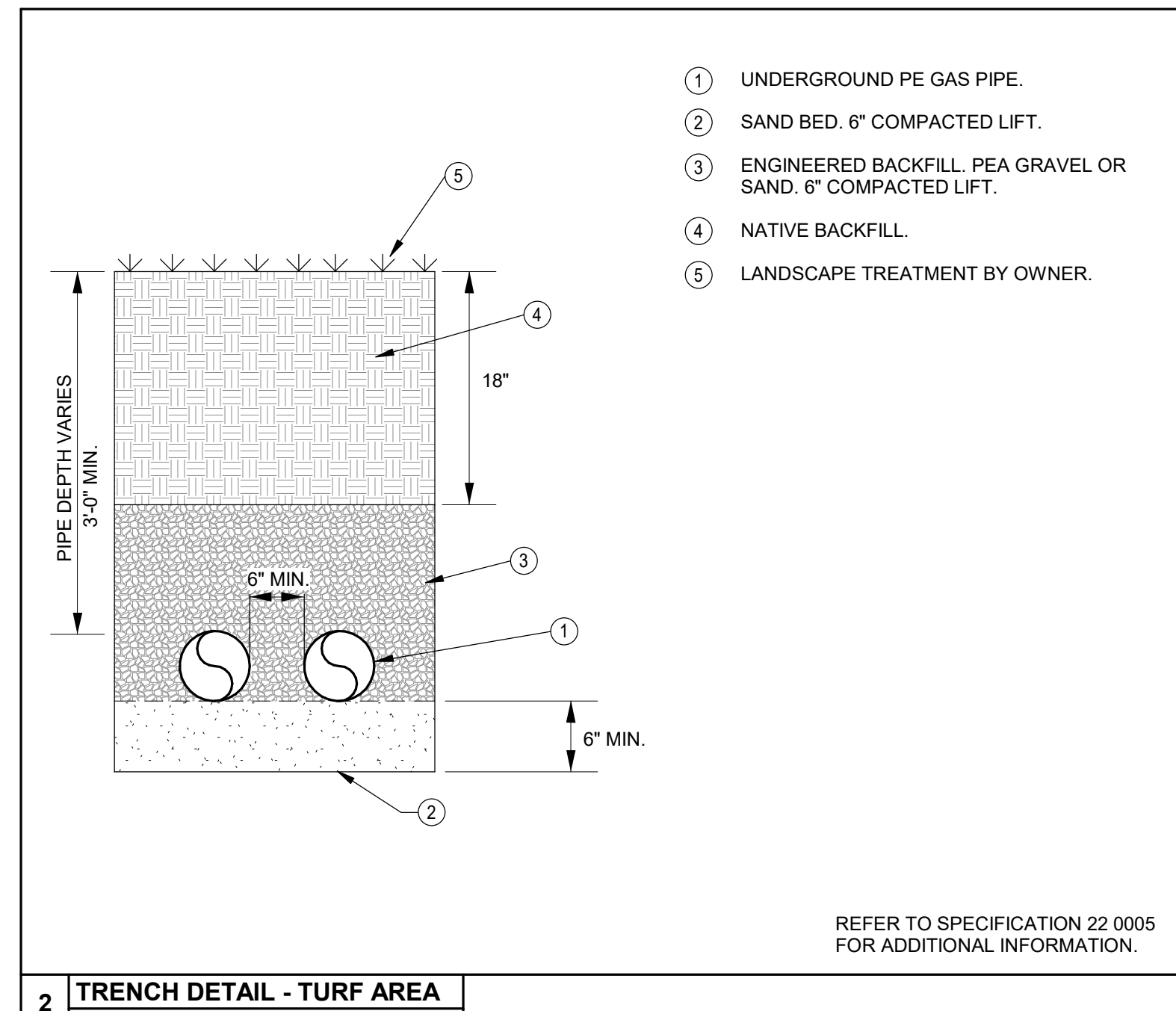
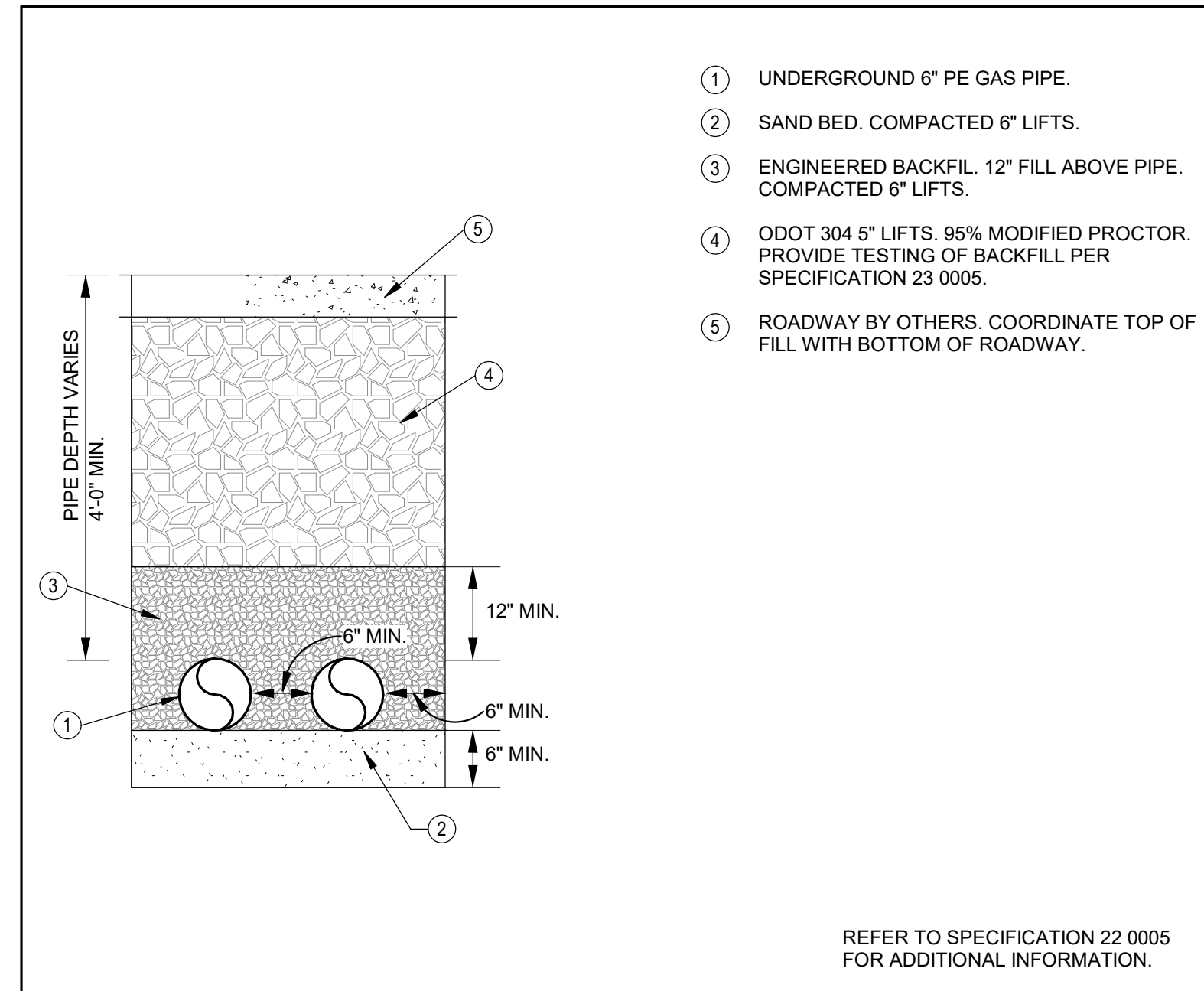
PR001

GAS LOAD SCHEDULE
PIPING SIZED USING THE LONGEST LENGTH METHOD.

Equipment Type	Existing or New	Number of Units	Estimated Btu/Hour Input	Total Btu
ATC Boiler	Existing	1 x	750000	750000
ATC Water Heater	Existing	1 x	40000	40000
Main Boilers	Existing	3 x	3000000	9000000
Main 2204 Water Heater	Existing	1 x	75000	75000
Main Water Heaters	Existing	2 x	1000000	2000000
Main Kitchen Equip	Existing	1	1031000	1031000
Main Kitchen MAU	Existing	1 x	560000	560000
Culinary Kitchen Equip	Existing	1	2249000	2249000
Culinary MAU	Existing	2 x	437000	874000
Auto Paint Booths	Existing	5	1075000	5375000
Science Rooms	Existing	1	264000	264000
HVAC Lab Furnaces	Existing	1	505000	505000
Green House Water Heater	Existing	1	199000	199000
Green Heater	Existing	1	300000	300000
Vet Tech Furnace	Existing	3	100000	300000
Vet Tech Unit Heater	Existing	2	65000	130000
Vet Tech Water Heater	Existing	1	125000	125000
Health Science RTU	New (Future)	1	600000	600000
Health Science Water Htr	New (Future)	1	125000	125000
High Bay Water Htrs	New (Future)	2	125000	250000
High Bay Furnaces	New (Future)	2	70000	140000
High Bay RTU	New (Future)	1	70000	70000
High Bay Boilers	New (Future)	3	1500000	4500000
Totals			14285000	29462000

CONSTRUCTION NOTES

- EXISTING GAS PIPE NO LONGER IN USE. ABANDON IN PLACE. REMOVE ALL PIPING REQUIRED FOR NEW INSTALLATION.
- ABANDON VET. TECH UNDERGROUND GAS PIPING IN PLACE. REMOVE PIPING AS REQUIRED FOR NEW INSTALLATION.
- REFER TO P201 FOR WORK AT GAS METER.
- CONNECT NEW UNDERGROUND GAS PIPING TO EXISTING.
- NEW UNDERGROUND GAS PIPING. RUN PIPING PARALLEL IN TRENCH. COORDINATE PIPING INSTALLATION WITH EXISTING SITE UTILITIES.
- SHED RELOCATED BY OWNER.
- NEW UNDERGROUND GAS PIPING.
- NEW GAS PIPING RUNS BELOW EXISTING UNDERGROUND STORM. NEW GAS PIPE RUN AT APPROX. 4'-5" DEEP AT CROSSOVER.
- MAINTAIN NEW GAS PIPING TRENCH 5'-6" OFF OF EXISTING PARKING LOT.
- NEW GAS PIPING RUNS BELOW EXISTING UNDERGROUND ELECTRIC FEEDER. CAREFULLY COORDINATE DEPTH WITH EXISTING UTILITY.
- NEW GAS PIPING RUNS BELOW PROPOSED NEW STORM DRAIN. PIPING RUN BETWEEN 5'-6" DEEP.



SITE GAS GENERAL NOTES

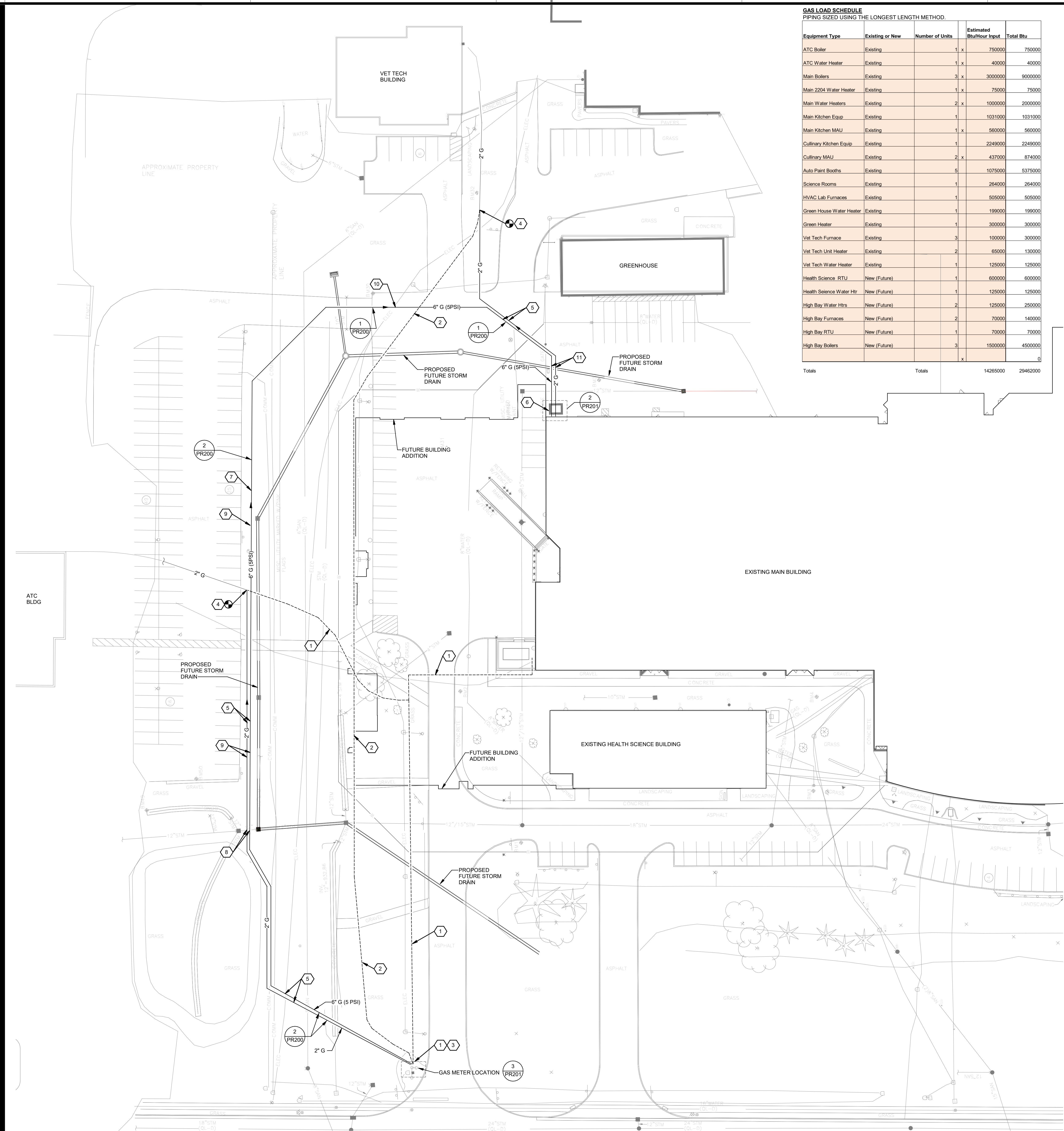
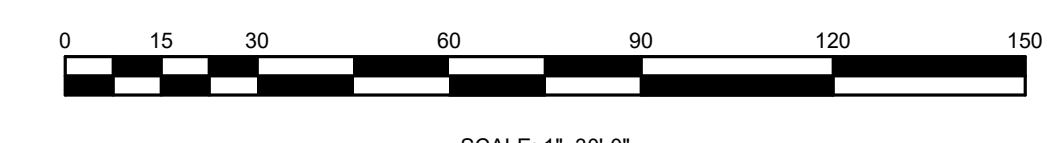
- THE INSTALLING CONTRACTOR SHALL KEEP A DETAILED SET OF RECORD DRAWINGS INDICATING WHERE THE NEW SITE GAS PIPING IS INSTALLED AND RECORD THE DEPTH OF THE NEW GAS PIPE EVERY 15'. THE INSTALLING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THIS MARKUP SET OF DRAWINGS UPON PROJECT COMPLETION.

OHIO UTILITIES PROTECTION SERVICE

UNDERGROUND UTILITY PROTECTION: TWO WORKING DAYS BEFORE YOU DIG

CALL 1(800)-362-2764 (TOLL FREE) OR CALL 811

Ohio Utilities Protection Service
Call 811
before you dig



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

STATE OF OHIO
JEFFREY D. ZELINSKI
63822

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

CONSULTANTS
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UPPER VALLEY CAREER CENTER
HEALTH SCIENCE BUILDING ADDITION
-EARLY SITE AND RESTROOM RENOVATION

PROJECT NO: 233448.00
CHECKED BY: JIZ
DRAWN BY: DJZ
DATE: 03.22.2024

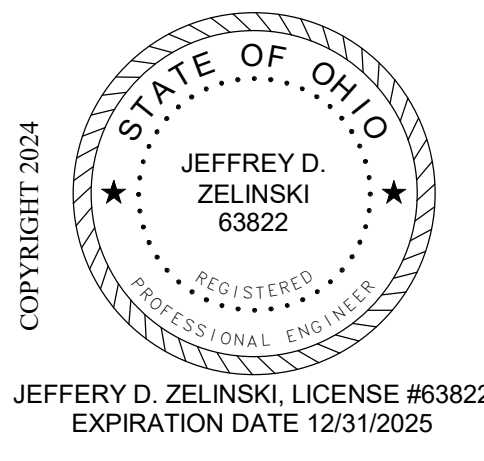
LEVIN PORTER ARCHITECTS
3011 DELUMARK DRIVE
MARIETTA, OHIO 45754
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Levin Porter Architects Inc. dba Levin Porter Architects

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SCALE: 1"=30'-0"

SITE PLAN
PR200



JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

PRINTINGS:

Number	Description	Date
03.22.2024	BID/PERMIT SUBMITTAL	

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UPPER VALLEY CAREER CENTER
HEALTH SCIENCE BUILDING ADDITION
-EARLY SITE AND RESTROOM RENOVATION

8811 Career Dr., Piqua, OH 45356

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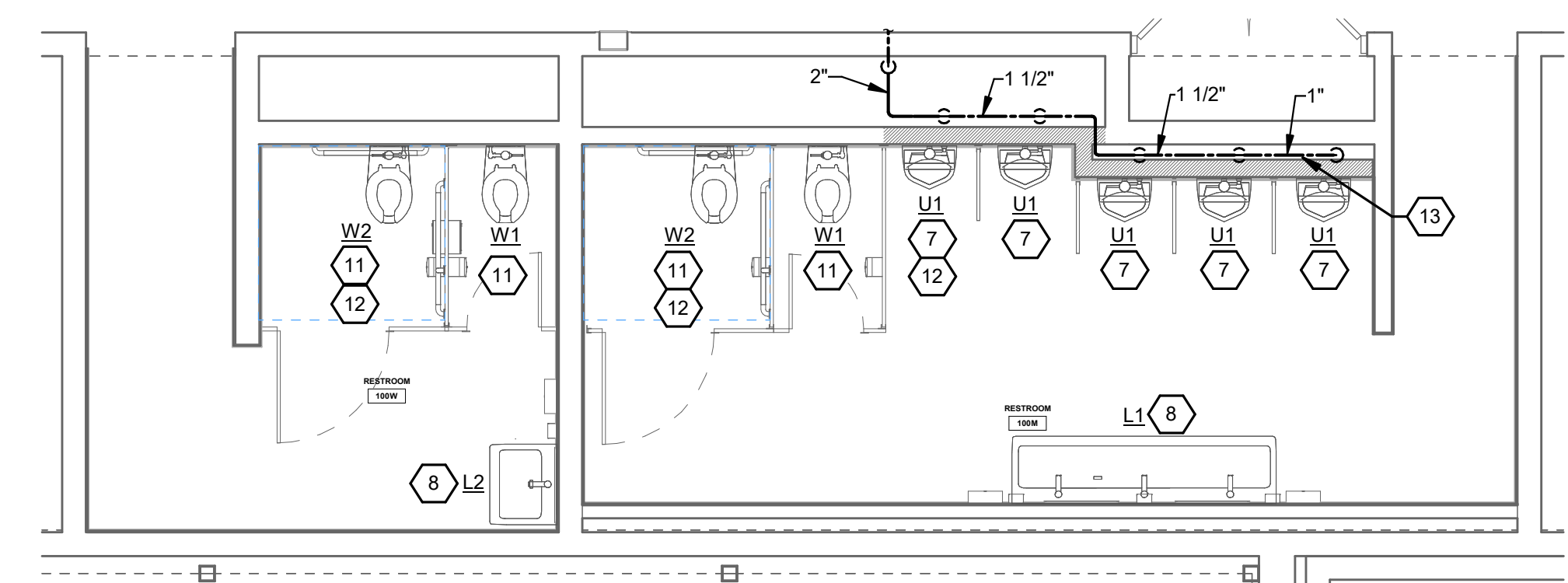
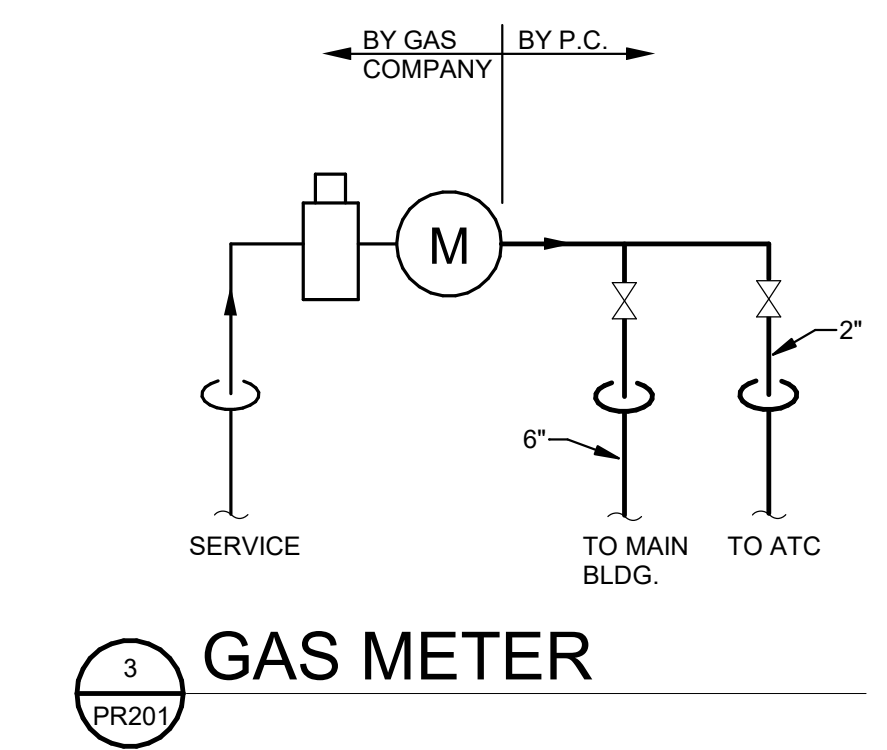
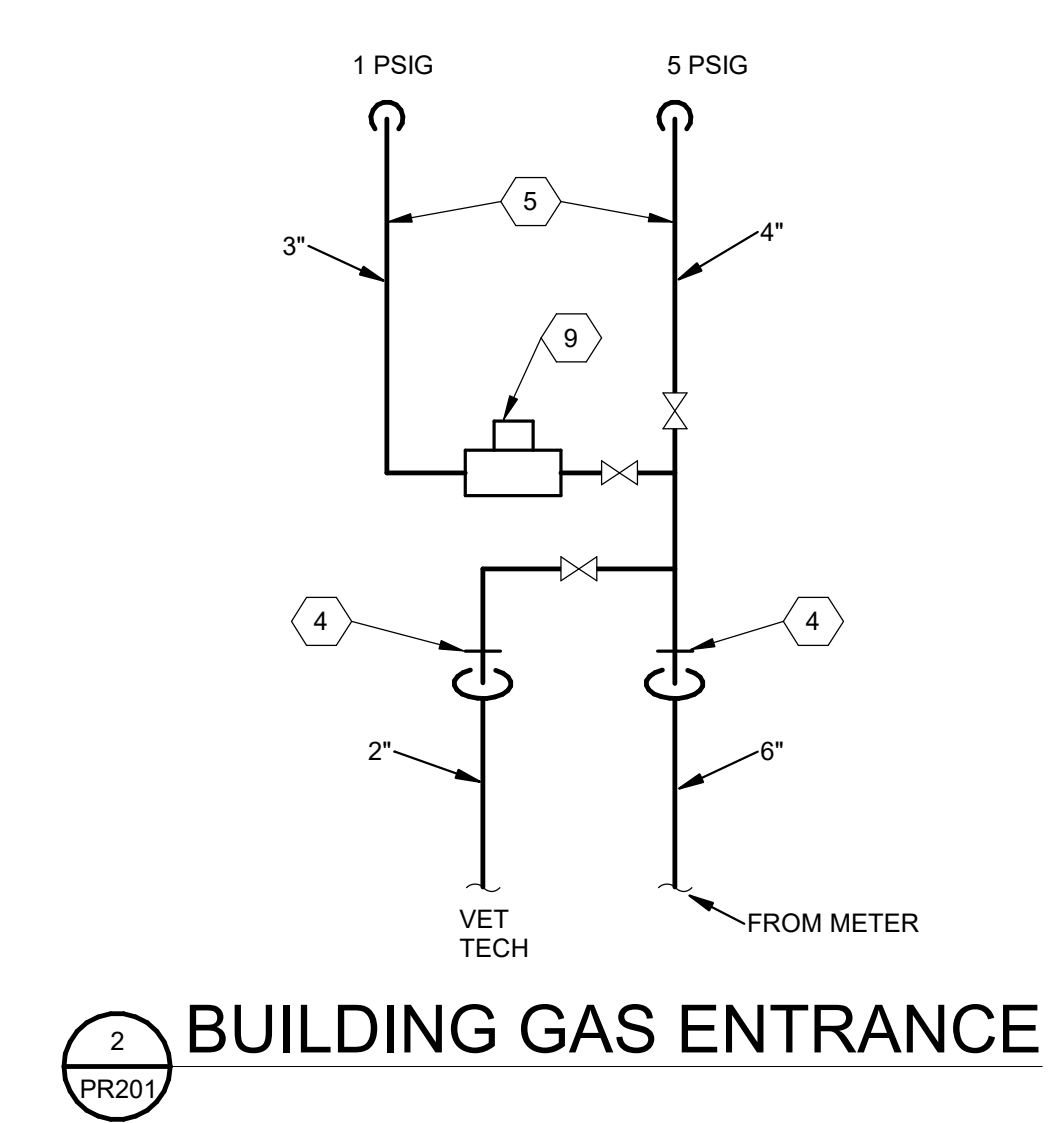
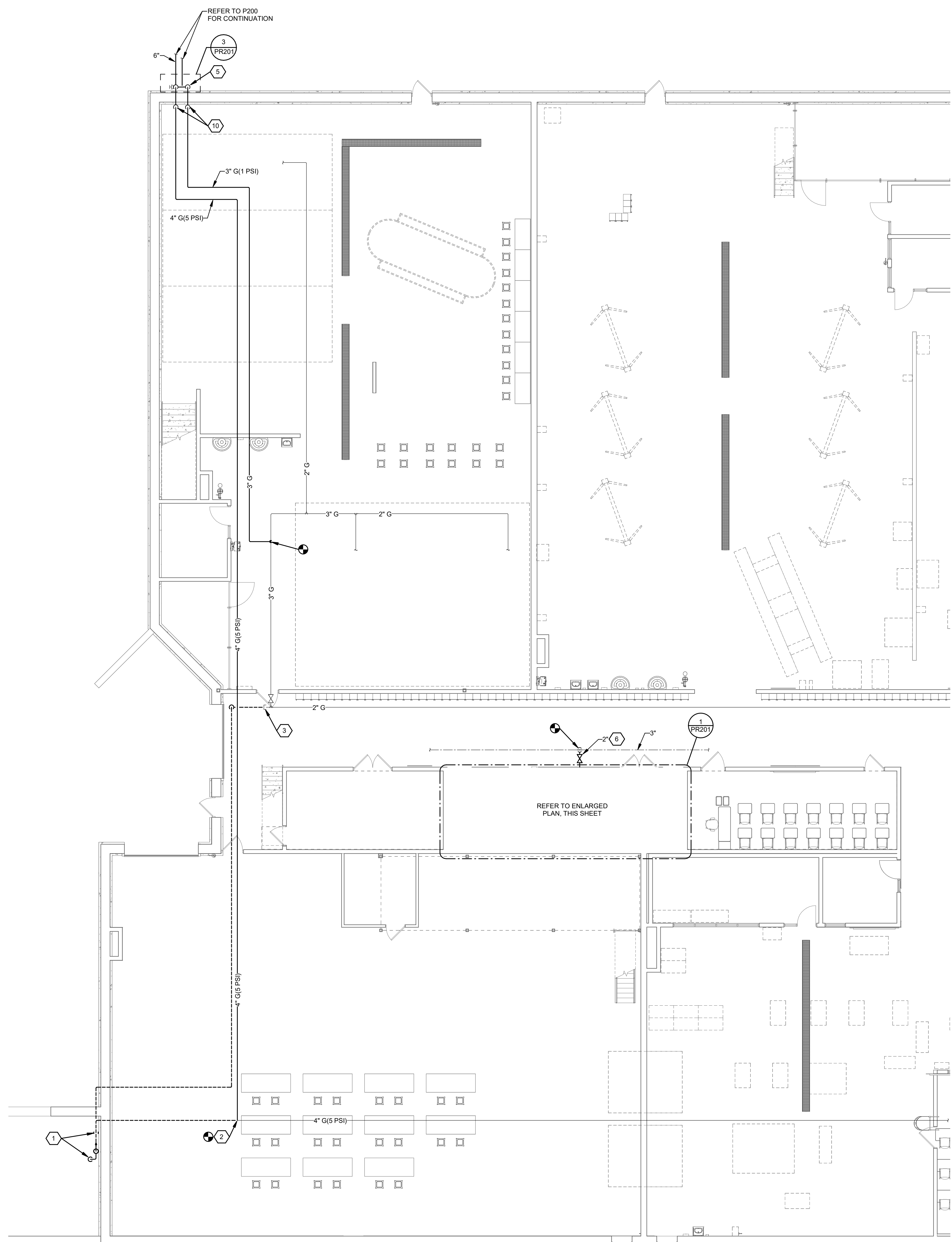
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AREA B WORK PLAN

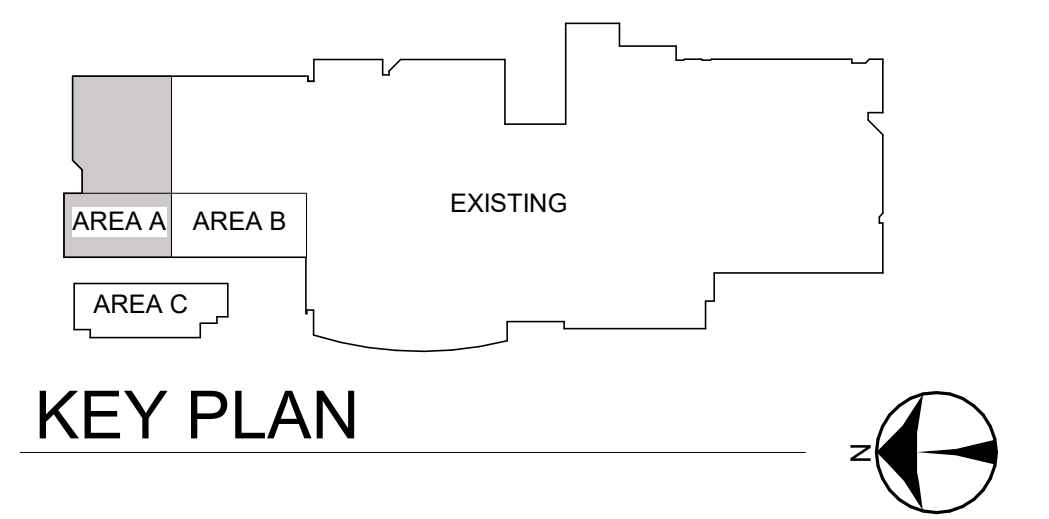
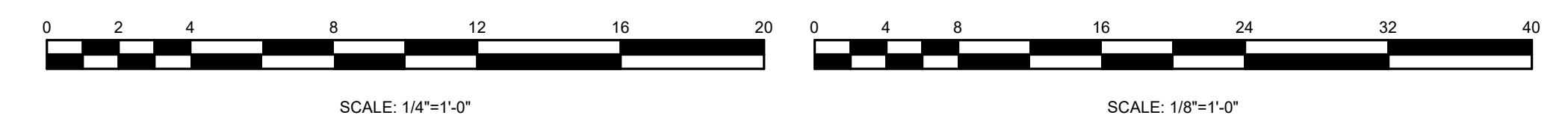
PR201

CONSTRUCTION NOTES

- REMOVE EXISTING NATURAL GAS PIPING ON BUILDING EXTERIOR.
- REMOVE 5 PSI NATURAL GAS PIPING AND CONNECT NEW PIPING AT LOCATION INDICATED.
- REMOVE PIPE TO LOCATION INDICATED AND CAP.
- PROVIDE ANODELESS GAS RISER INGRADE. PE PIPING UNDERGROUND, WELDED STEEL PIPING ABOVE GRADE.
- PAINT EXTERIOR GAS PIPING GRAY WITH WEATHERPROOF PAINT.
- NEW 2" COLD WATER BRANCH TO SERVE NEW RESTROOM URINALS. PIPING RUNS DOWN WALL FACE AND INTO PLUMBING CHASE.
- REMOVE & REPLACE URINAL. REUSE EXISTING HANGER. CONNECT NEW COLD WATER SERVICE TO NEW FIXTURE. MODIFY CARRIER HEIGHT TO COORDINATE WITH NEW FIXTURE.
- REMOVE & REPLACE LAVATORY. RECONNECT WATER & SANITARY SERVICES. MODIFY ROUGH-IN AND MOUNTING PLATE AS REQUIRED FOR NEW LAVATORY INSTALLATION. INSTALLED NEW 1070 DEVICES ON HOT WATER.
- NEW PRESSURE REGULATOR. 5 PSI TO 1 PSI. 5375 CFH.
- PIPING RISES ON EXTERIOR WALL INSIDE OF BUILDING.
- REMOVE & REPLACE WATER CLOSET. REUSE EXISTING CARRIER. MODIFY ROUGH-IN AS REQUIRED TO INSTALL NEW FIXTURE AND FLUSH VALVE.
- FIXTURE IS MOUNTED AT ACCESSIBLE HEIGHT.
- PROVIDE A WATER HAMMER ARRESTOR AT LOCATION INDICATED FOR NEW URINAL FLUSH VALVES.



WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"

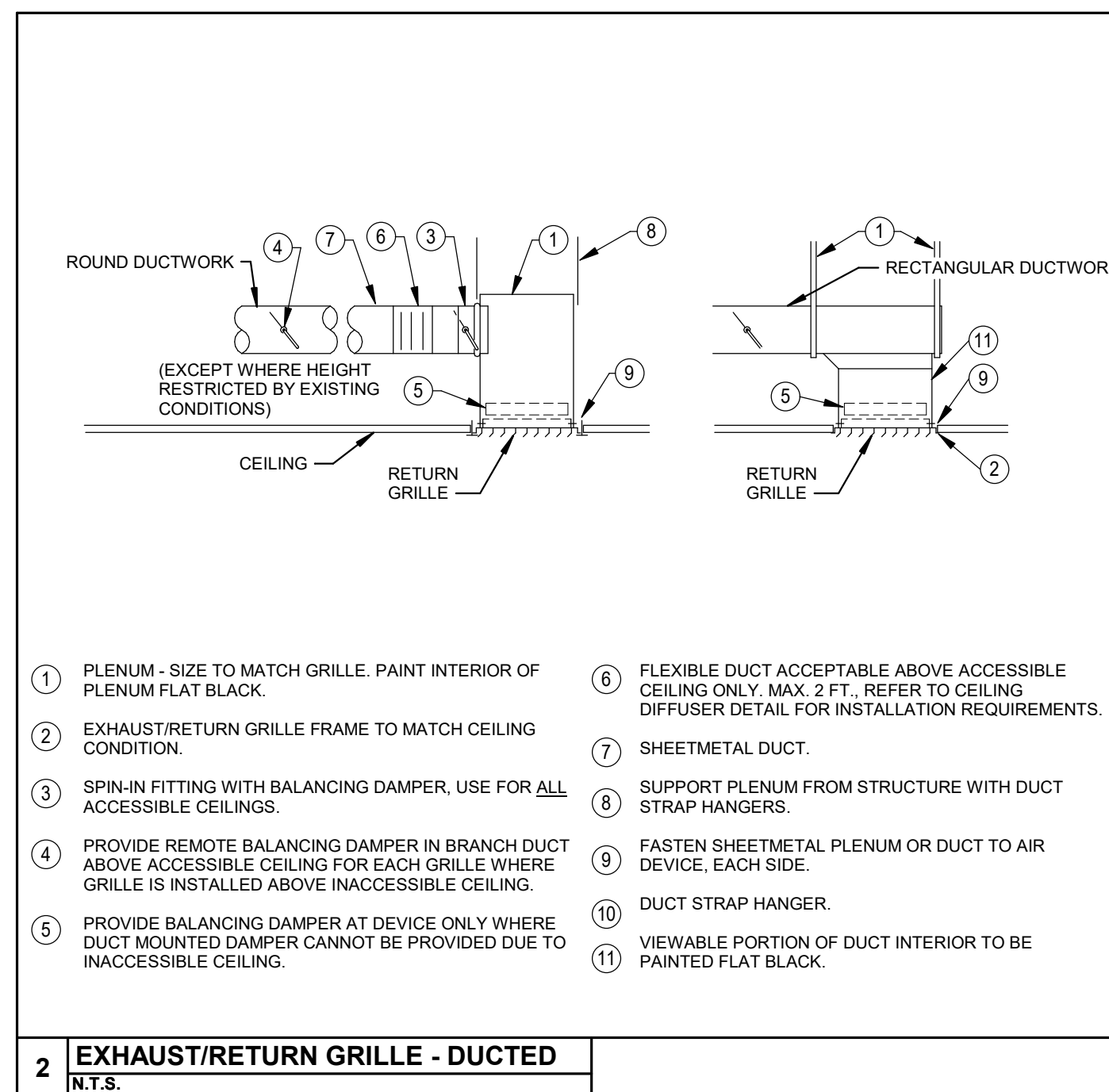
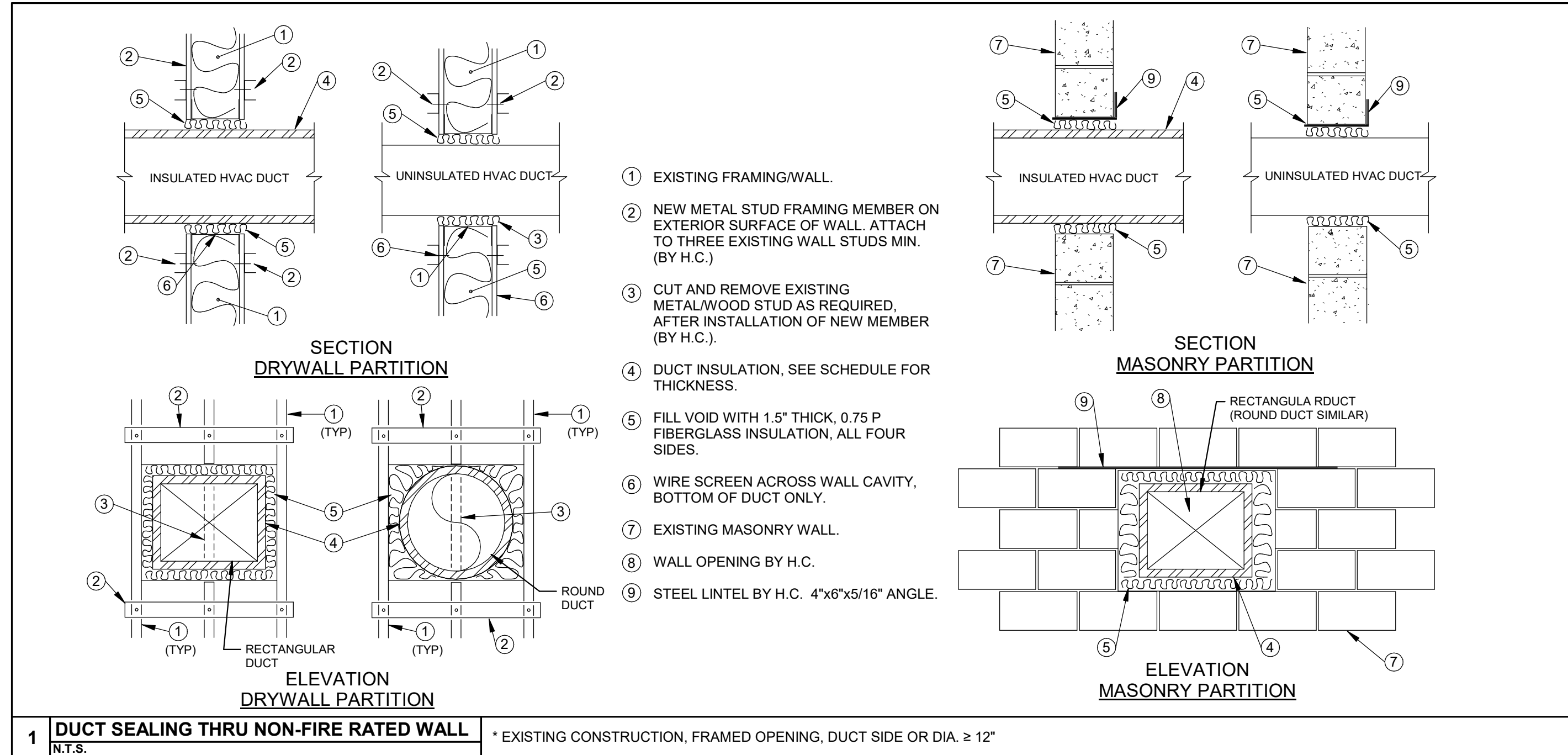


AIR DEVICE SCHEDULE

GENERAL NOTES
 AIR DEVICES BASED ON PRICE. EQUAL BY TITUS, TUTTLE & BAILEY
 MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW. BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.
 STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.
 DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS. VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

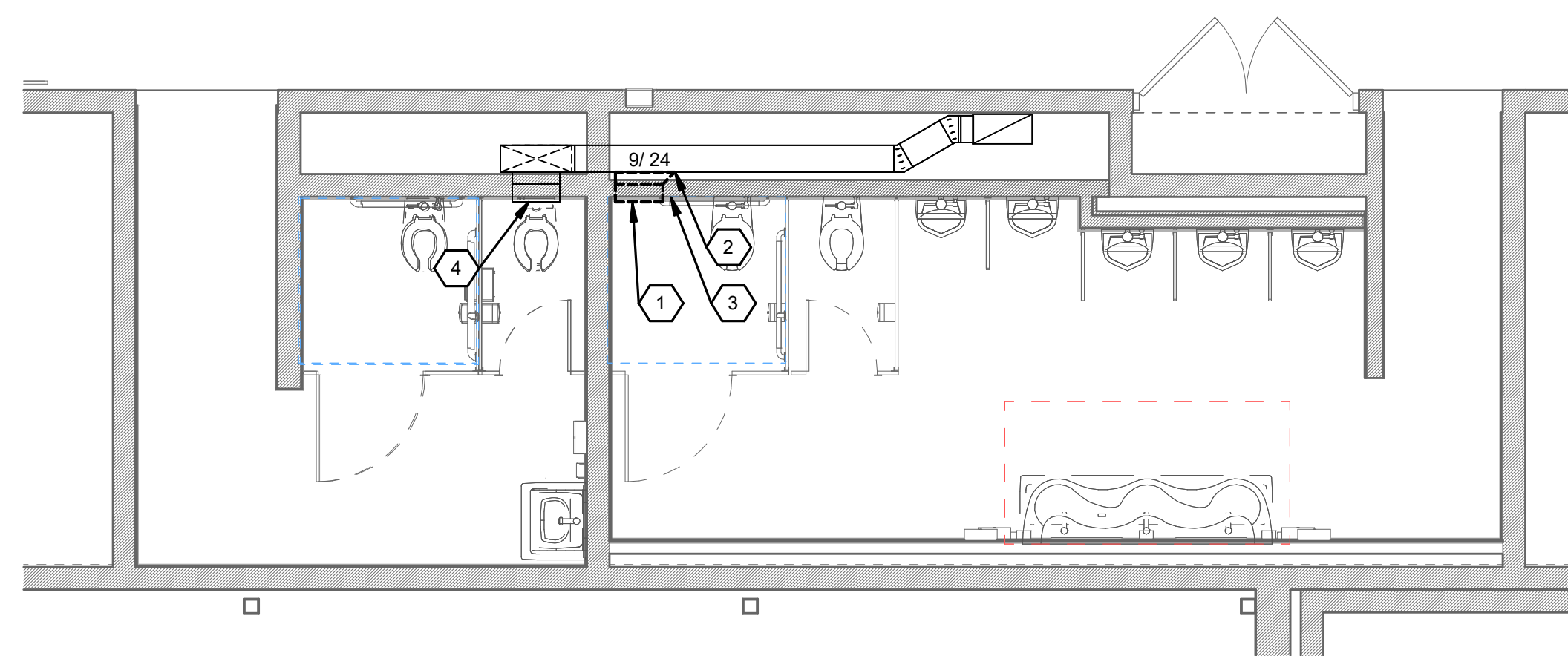
TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
E1	EXHAUST GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E2	RETURN GRILLE DEVICE SIZE - 16" X 16" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	BALANCING DAMPER	1, 2

- NOTES:**
 1. VERIFY AIR DEVICE SIZE PRIOR TO ORDERING.
 2. PAINT AIR DEVICE TO MATCH WALL COLOR.



CONSTRUCTION NOTES

- REMOVE EXISTING EXHAUST GRILLE.
- REMOVE DUCTWORK TO LOCATION INDICATED.
- H.C. SHALL REMOVE AND REINSTALL ALL MASONRY WALL BLOCKS REQUIRED TO REMOVE AND INSTALL NEW DUCTWORK.
- REMOVE AND REPLACE EXISTING EXHAUST GRILLE.
- NEW DUCTWORK RECONNECT TO EXISTING EXHAUST DUCT IN CHASE. REUSE EXISTING MASONRY WALL OPENING. RUN TIGHT TO TOP OF OPENING ABOVE CEILING. PATCH WALL AREA UP TO NEW DUCT PENETRATION WITH NEW MASONRY BLOCK. COORDINATE WITH NEW CEILING.
- NEW EXHAUST GRILLE. INSTALL ON EXISTING DUCTWORK.
- DUCTWORK UP TO EXISTING EXHAUST FAN ON ROOF.



DUCT CONSTRUCTION AND SEALING

- QUALITY ASSURANCE**
- COMPLY WITH GENERAL WELDING PERSONNEL & PROCEDURES UNDER AWS D1.1/D1.1M, AWS D1.2/D1.2M & AWS D9.1/D9.1M.
 - COMPLY WITH GENERAL DUCT CONSTRUCTION STANDARDS UNDER SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE - THIRD EDITION AND MOST CURRENT VERSION OF APPLICABLE ASHRAE 90.1 SECTION 6.4.4 AND ASHRAE 62.1 SECTIONS 5 & 7.
 - COMPLY WITH SEISMIC REQUIREMENTS PRESCRIBED UNDER SMACNA DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE THIRD EDITION & ASCE/SEI 7.
- PRODUCTS**
- ROUND OR FLAT Oval SINGLE WALL DUCTWORK - 2" S.P. AND HIGHER
 - CONTINUOUS HELICAL (SPIRAL) LOCK SEAM CONSTRUCTION.
 - SLIP CONNECTIONS; GASKETED FLANGES ARE NOT ACCEPTABLE.
 - USE 45 DEG. LATERAL TEES WHEREVER POSSIBLE.
 - 90 DEG. TEES SHALL BE CONICAL SPIN-IN TYPE.
 - DIE STAMPED ELBOWS, #D = 1.5 (MIN.)
 - RADIUS, ANGLED (15° MAX.) OR MITERED (15° MAX.) OFFSETS.
 - CONCENTRIC TRANSITIONS, 0 = 45° MAX.
 - ECCENTRIC TRANSITIONS, 0 = 30° MAX.

- ROUND OR FLAT Oval DOUBLE WALL DUCTWORK - 2" S.P. AND HIGHER (SAME AS ABOVE EXCEPT):
- INSULATION THICKNESS PER INSULATION SCHEDULE FOR INTENDED SERVICE.
- OUTER PRESSURE SHELL.
- PERFORATED INNER LINER/SOLID INNER LINER.
- ROUND DUCTWORK - 1" S.P. OR LESS (SAME AS ABOVE EXCEPT):
- LONGITUDINAL SEALED SEAM CONSTRUCTION ACCEPTABLE AT FINAL AIR DEVICE ONLY.
- STANDARD TEES ALLOWED.
- SEGMENTED ELBOWS ALLOWED.

- RECTANGULAR DUCTWORK - 2" S.P. AND HIGHER**
- FLAT SLIP, STANDING DRIVE OR GASKETED FLANGE DUCT SYSTEM CONNECTIONS.
 - RADIUS OR SQUARE THROAT WITH DOUBLE WALL TURNING VANES ELBOW.
 - 45 DEG. ENTRY OR CONICAL SPIN-IN BRANCH CONNECTIONS.
 - RADIUS, ANGLED (15° MAX.) OR MITERED (15° MAX.) OFFSETS.
 - CONCENTRIC TRANSITIONS, 0 = 45° MAX.
 - ECCENTRIC TRANSITIONS, 0 = 30° MAX.
 - BRANCH DUCTS SHALL BE CONICAL TEE FITTINGS.
 - SQUARE THROAT, RADIUS HEEL 90° ELBOWS ARE NOT PERMITTED.
- RECTANGULAR DUCTWORK - 1" S.P. OR LESS (SAME AS ABOVE EXCEPT):**
- TURNING VANES IN ELBOWS NOT REQUIRED FOR AIR VELOCITIES LESS THAN 800 FPM.
 - STRAIGHT TAP AND STANDARD SPIN-IN BRANCH CONNECTIONS PERMITTED.
- FLEXIBLE DUCTWORK - SUPPLY/RETURN/TRANSFER/EXHAUST**
- PROVIDE MANUFACTURED DUCT SUPPORTS AT 90 DEGREE ELBOWS TO CEILING AIR DEVICES.
 - FLAME SPREAD LESS THAN 25, SMOKE DEVELOPMENT LESS THAN 50.

- DUCT SEALANT & GASKETS**
- GALVANIZED DUCT SEALANT - WATER BASED SYNTHETIC LATEX EMULSION, GRAY IN COLOR.
 - FLANGE GASKETS - BUTYL RUBBER, NEOPRENE, OR EPDM POLYMER W/ POLYISOBUTYLENE PLASTICIZER.
 - ALUMINUM DUCT SEALANT - ALUMINUM SILICONE, GRAY IN COLOR.
 - PVC COATED DUCT SEALANT - PVC SEALANT OR CAULK/MINERAL IMPREGNATED FIBER TYPE.
- DUCT HANGER SUPPORTS**
- DUCT HANGER SUPPORTS SHALL DIRECTLY ATTACH TO DUCTWORK.
 - EXTERIOR DUCT INSULATION WRAP SHALL BE APPLIED OVER DUCT AND HANGER SUPPORTS.
 - ANGLE OR UNISTRUT SUPPORTS SHALL BE INSULATED A MINIMUM OF 4" BEYOND DUCT BEARING POINT TO PREVENT CONDENSATION.

- EXECUTION**
- DRAWINGS INDICATE GENERAL LOCATION OF DUCTWORK. COORDINATE DUCT LAYOUT CAREFULLY WITH OTHER TRADES TO AVOID CONFLICT. PROVIDE OFFSETS AS REQUIRED.
 - SPAN DUCTWORK FROM STRUCTURAL CONCRETE/STEEL MEMBERS OR SUPPLEMENTARY STEEL SHAPES.
 - FOR EXPOSED DUCTWORK, GRIND WELDS SMOOTH AND POLISH AND TRIM SEALANTS FLUSH WITH DUCT SURFACES.
 - PROTECT DUCTWORK DURING CONSTRUCTION AND CLEAN PRIOR TO SYSTEM OPERATION.
 - ROUTE DUCTWORK TO AVOID PASSING THRU TRANSFORMER VAULTS OR ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS PER NEC REQUIREMENTS.
 - SEAL DUCTS ACCORDING TO SMACNA SEAL CLASS NOTED IN SCHEDULE.
 - SYSTEMS OPERATING AT 3" S.P. OR HIGHER AND ALL EXTERIOR DUCTWORK SHALL REQUIRE DUCT PRESSURE TESTING.
 - WET DUCT SYSTEMS SHALL BE PITCHED FOR DRAINAGE. PROVIDE TRAPPED DRAIN AT SYSTEM LOW POINTS AND PIPE TO LOCAL DRAIN POINT.

DUCTWORK SYSTEM SCHEDULE

DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.	NOTES
EXHAUST AIR	CONCEALED	G1	SP. CONSTR. -2" SEAL CLASS C	

DUCTWORK MATERIALS SCHEDULE

TYPE	MATERIAL	DESCRIPTION
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.

GENERAL NOTES - HVAC

- PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS. ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

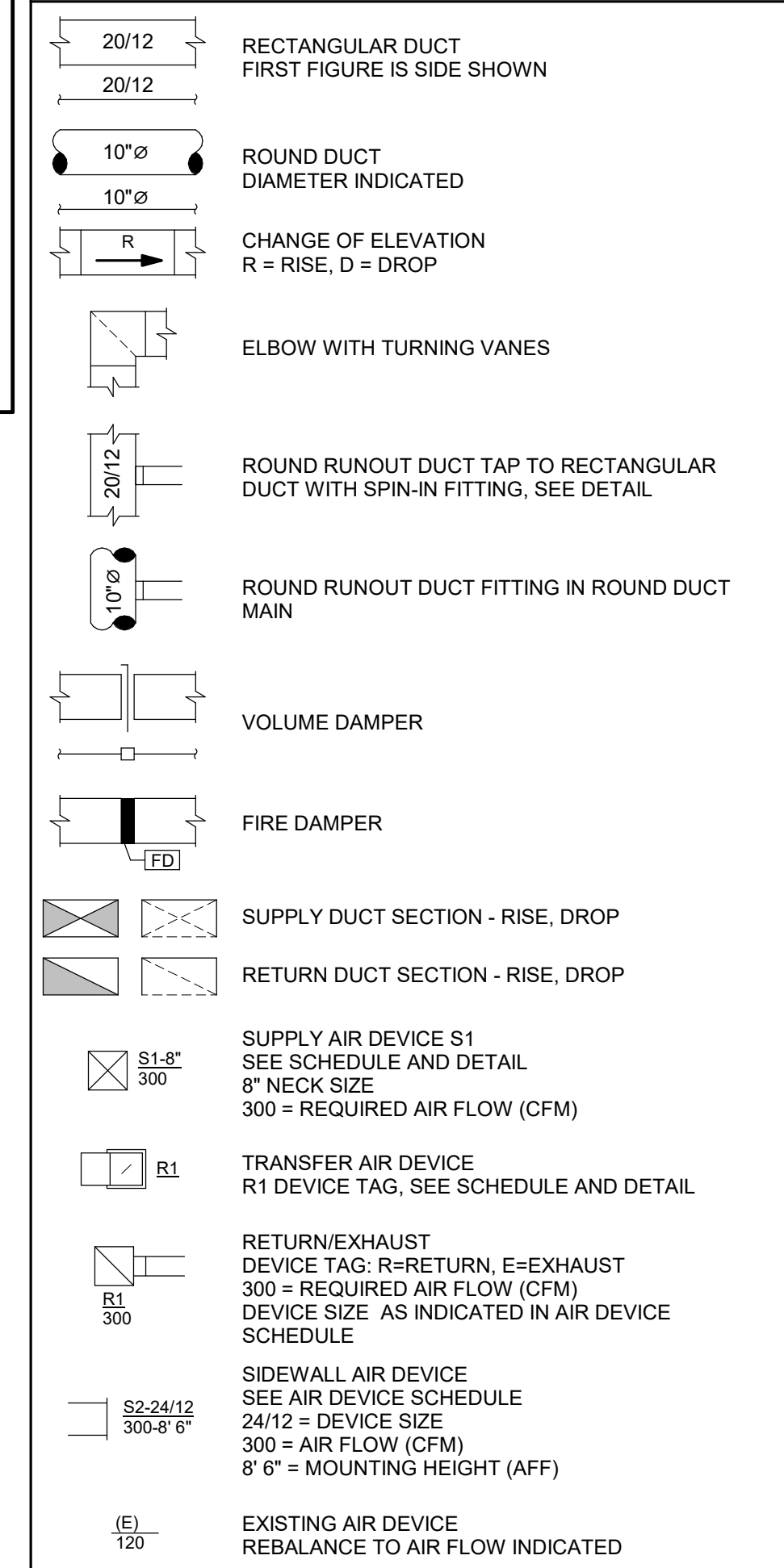
GENERAL REQUIREMENTS - HVAC

- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- REMOVE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBS FIRM SHALL PROVIDE THE BALANCE.
- MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- PROVIDE WARRANTY FOR ALL WORKMANSHIP. EQUIPMENT AND MATERIAL WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

GENERAL LEGEND

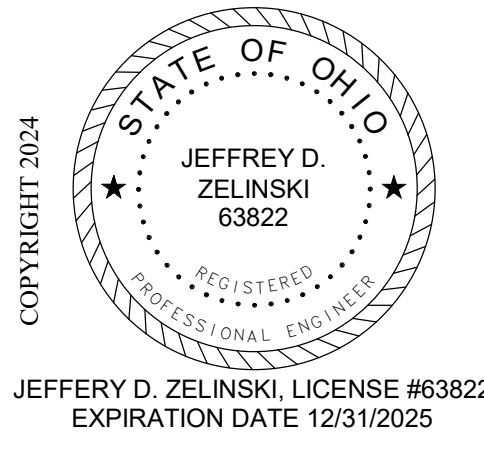
EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B H2	DETAIL SYMBOL. DETAIL 'B' SHOWN ON SHEET H2.
A H1	SECTION SYMBOL. SECTION 'A' DESIGNATION, SHOWN ON SHEET H1.
H1	EXTERIOR ELEVATION SYMBOL. ELEVATION 'A' DESIGNATION, SHOWN ON SHEET H1.
FD1	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL. UP TO 'FD1', SHOWN ON FLOOR ABOVE.
1 HOUR FIRE PROTECTION	SEE SPECIFICATION FOR PENETRATION DETAILS.
2 HOUR FIRE PROTECTION	SEE SPECIFICATION FOR PENETRATION DETAILS.
3 HOUR FIRE PROTECTION	SEE SPECIFICATION FOR PENETRATION DETAILS.
---	ITEM TO BE REMOVED.
---	EXISTING TO REMAIN.
---	NEW ITEM.

DUCTWORK LEGEND



HVAC INDEX OF DRAWINGS

SHEET	DRAWING TITLE
HR001	LEGENDS, SCHEDULES, & PLAN



REVISIONS:

Number	Description
03.22.2024	

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Number	Description
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CONSULTANTS:

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UPPER VALLEY CAREER CENTER
HEALTH SCIENCE BUILDING ADDITION
-EARLY SITE AND RESTROOM RENOVATION

8811 Career Dr., Parma, OH 45366

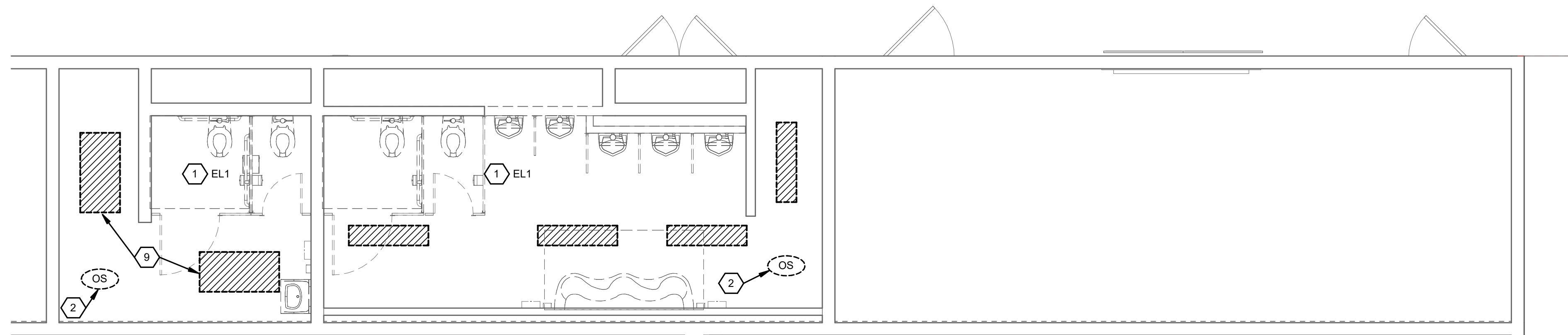
PROJECT NO: 233448.00
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DRAWN BY: JDZ
DATE: 03.22.2024

LEVIN PORTER ARCHITECTS
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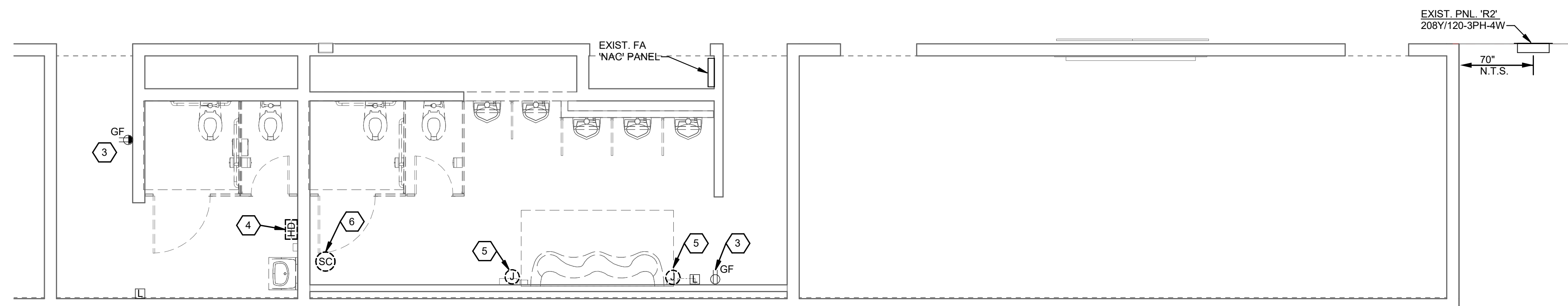


LEGENDS, SCHEDULES, & PLAN

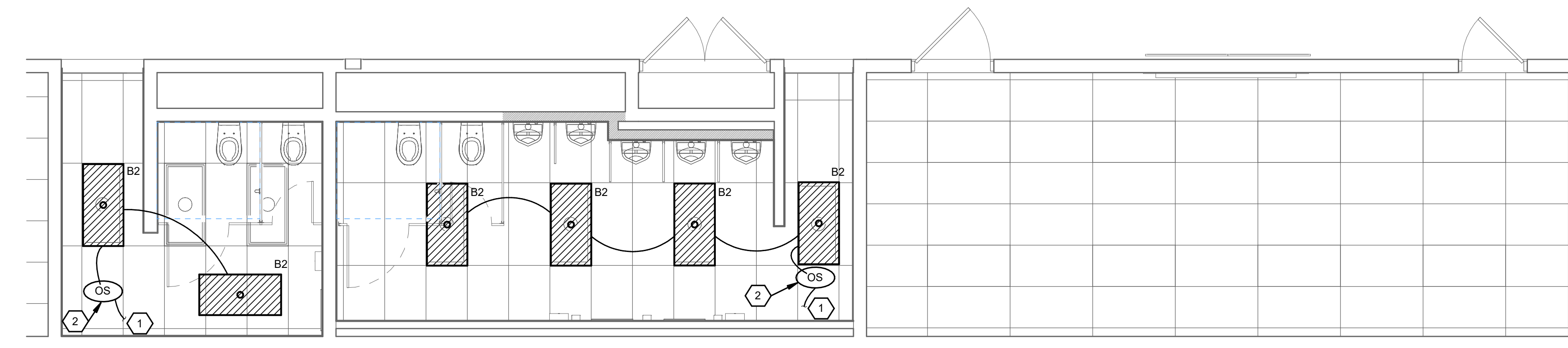
HR001



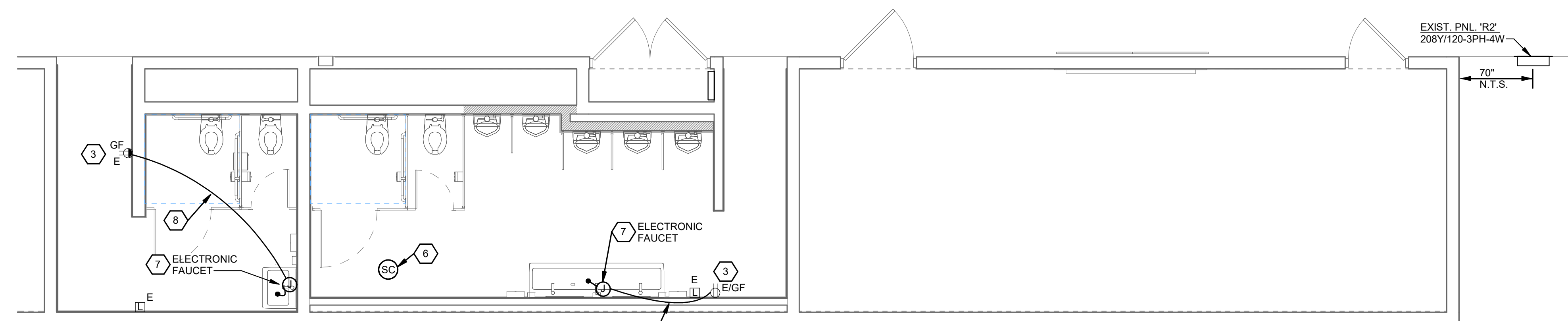
DEMOLITION PLAN - LIGHTING
SCALE: 1/4" = 1'-0"



DEMOLITION PLAN - POWER
SCALE: 1/4" = 1'-0"



NEW WORK PLAN - LIGHTING
SCALE: 1/4" = 1'-0"



NEW WORK PLAN - POWER
SCALE: 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LUMINAIRE				MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR				MOUNTED			SIZE	SEE NOTES		
	LED	TYPE	LOW VOLTAGE	WATTS/ FIXTURE				WHITE	BLACK	ALUMINUM	BRONZE	STANDARD	SEE NOTES	S - SURFACE			R - RECESSED	SM - STEM MTD.
B2	•			36	5000 LUMEN/4000K	UNV LITHONIA CPX-2X4-AL08-5000LM-80CRI-SWW7-SWL-MVOLT	COLUMBIA, METALLUX	SATIN WHITE FLAT PANEL	•					R	24	48	2.5	1

NOTES:
1. FIXTURE TO INCLUDE CONFIGURABLE LUMEN OUTPUT (4000/5000/6000 LUMEN) AND SWITCHABLE COLOR TEMPERATURE.

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS. ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.
- BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.
- INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.
- WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.
- COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.
- INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES. ACTUAL EQUIPMENT OR CABINETS PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

ELECTRICAL SPECIFICATIONS

- ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2024 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.
- ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE. PANELBOARDS, CIRCUIT BREAKERS AND DISCONNECTS BY SQUARE D, SIEMENS, CUTLER-HAMMER OR G.E.
- SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES AND WIRING DEVICES.
- ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.
- THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUITS, DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.
- ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THIN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE AND FOR 277 VOLT CIRCUITS SHALL BE GRAY COLOR.
- ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT. EMT SHALL BE UTILIZED FOR INTER-FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR FINAL CONNECTION TO INDOOR LIGHT FIXTURES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.
- EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.
- BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE, IVORY COLOR, WITH BRUSHED STAINLESS STEEL COVERPLATES, HUBBELL, P&S, COOPER OR LEVITON. PROVIDE TAMPER-RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.
- ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.
- IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.
- THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.
- ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. COORDINATE LOCATIONS AND TYPESIZE WITH THE SYSTEMS VENDOR FOR OPTIMUM CABLE ROUTING.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY, FUSIBLE TYPE TO UTILIZE "RK1" FUSES.
- LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE BY HUBBELL, LEVITON, COOPER CONTROLS OR SENSOR SWITCH. CEILING MOUNTED SENSORS SHALL BE LOW PROFILE, "DOME" TYPE SENSORS.
- EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE REMOVED BACK TO SOURCE. UNREUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK, DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.
- PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.

GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- WP WEATHER PROOF.
- 3 NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- 123 ROOM NUMBER.
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

ELECTRICAL LEGEND

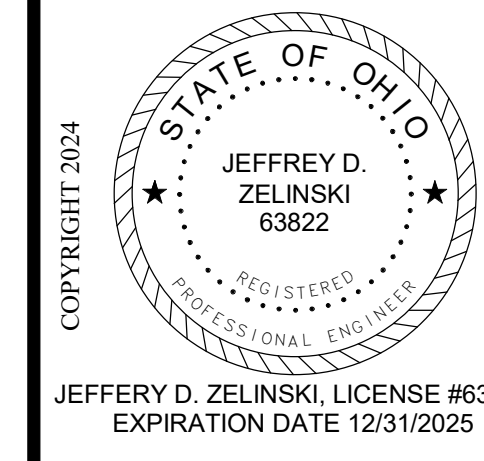
- ELECTRICAL CONNECTION REQUIRED.
- B1 LIGHTING FIXTURE: CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
- B1 LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
- EM WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
- E EXISTING WIRE & CONDUIT.
- A-182 EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL, NUMBER DENOTES CIRCUIT.
- WIRE & CONDUIT IN WALL OR ABOVE CEILING
- WIRE & CONDUIT UNDERGROUND
- JUNCTION BOX.
- DASHED SYMBOL INDICATES THAT PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
- E EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" M.H.). D = DOUBLE DUPLEX.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
- OS SINGLE POLE WALL SWITCH (46" M.H.).
- OC OCCUPANCY SENSOR, CEILING MOUNTED.
- FA FIRE ALARM SIGNALING LIGHT (80" A.F.). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.

CONSTRUCTION NOTES

- EXISTING FIXTURES SERVED BY EXISTING 277V "EMERGENCY" CIRCUIT FROM EXISTING EMERGENCY PANEL "EL1" IN MAIN ELECTRIC ROOM. (EXISTING CIRCUITS EL1-1,3+5 SERVE BAY AREA).
- DISCONNECT OCCUPANCY SENSOR; RELOCATE TO NEW LAY-IN CEILING AND RECONNECT TO EXISTING ROOM LIGHTING SUPPLY CIRCUIT AND NEW FIXTURES TO MATCH EXISTING.
- EXISTING RESTROOM RECEPTACLES SERVED FROM EXISTING CIRCUITS R2-11+13, TO REMAIN.
- REMOVE HAND DRYER AND TRACE OUT AND REMOVE 208V-20A SUPPLY CIRCUIT WIRING BACK TO SOURCE (PANEL R2; BREAKER 1012).
- OUTLET BOX SERVING PREVIOUSLY REMOVED 208V-20A HAND DRYER - TRACE OUT AND REMOVE 208V-20A SUPPLY CIRCUIT WIRING BACK TO SOURCE (PANEL R2; BREAKER 57).
- DISCONNECT AND REMOVE SPEAKER; REINSTALL IN NEW LAY-IN CEILING AND RECONNECT TO MATCH EXISTING.
- CONNECT 120V CIRCUIT TO ELECTRONIC FAUCET - COORDINATE EXACT ROUGH-IN AND FINAL CONNECTION WITH MANUFACTURER INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
- CONNECT TO EXISTING RECEPTACLE CIRCUIT IN ACCESSIBLE LOCATION AND FISH "MC" CABLE IN WALL CHASE TO FEED ELECTRONIC FAUCET.
- REMOVE 2x4" LED LAY-IN FIXTURES.

ELECTRICAL INDEX OF DRAWINGS

SHEET E101	DRAWING TITLE WORK PLANS
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REVISIONS:

Number	Date	Description
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PRINTINGS:
BID/PERMIT SUBMITTAL

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WORK PLANS
E101

