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AN ASSOCIATION

M i s s i s s i p p i



Carver Elementary Emergency Remodel

900 44th Av, Meridian, MS 39307

DPA PN: 22034.04

Construction Documents
Mar 5, 2023



Superintendent Dr. Amy Carter

Board of Education

Board President	Mrs. Sally Gray
Board Vice-President	Mrs. Beverly Pennington
Secretary	Mr. Ron Turner
Board Member	Ms. Gwendolyn Hardaway

Team

Owner	Meridian Public School District
Architect	Dale Bailey, an association
Mechanical	GSK, Mechanical
Electrical	The Power Source
Structural	Structural Design Group



Drawing Index

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PD100	Level 1 Enlarged Plumbing Demolition Plan
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Code Requirements

- 1. Applicable Codes and Standards :**
- A. IBC - International Building Code (2018 edition)
 - B. IMC - International Mechanical Code (2018 edition)
 - C. IPC - International Plumbing Code (2018 edition)
 - D. IEC - International Electrical Code (2018 edition)
 - E. IFC - International Fire Code (2018 edition)
 - F. ADA 2010- Americans with Disabilities Act

General Project Notes

- Energy Code Requirements**
- IBC 2018 Energy Code is the mandatory energy code standard for this project.
 - All mechanical and electrical building system installed should meet all requirements of the energy code.
 - Main roof insulation to achieve minimum R-value of 38 ci.
 - polyisocyanurate insulation board with joints staggered between layers of insulation.
 - Continuous air barrier to be provided at building envelope per IBC 2018 Energy Code. Air barrier joints and seams to be sealed and all joints and material transitions. Joints to be securely installed as to not dislodge, loosen or otherwise impair its ability to resist positive and negative pressure from wind or mechanical units.

- Thermal Envelope Requirements**
- Roofs = R-38 ci (insulation entirely above deck)

- General Information**
- Do not scale drawings. If dimensions are in question, the contractor shall be responsible for obtaining clarification from the architect before continuing with the construction
 - Contractors shall verify, on the site, all dimensions and equipment locations, and notify architect promptly in writing of any discrepancies
 - Contractors shall be responsible to determine the on site conditions and perform all necessary work to complete the project
 - Contractors shall maintain safe methods of egress for occupied buildings and in site area during construction
 - All casework dimensions shall be field verified before unit fabrication or installation
 - Dimensions, notes, finishes, and fixtures shown on typical floor plans shall apply to similar, symmetrical, or opposite hand plans, sections, or details
 - Typical, or typ., shall mean that condition is representative for similar conditions throughout, U.N.O. Details are usually keyed and noted "Typ." only one time when they first occur
 - Partitions are dimensioned from finish face U.N.O. Dimensions to masonry are to actual finish face U.N.O. Owner to have right of refusal for all materials, furniture, fixtures and good within the limits of the construction contract.

Project Directory

Project Information
Name: 22034.04 Carver Elementary Emergency Remodel
Address: 900 44th Ave, Meridian, MS 39307
Phone: +16014844482

Client
Meridian School District
1019 25th Ave,
Meridian, MS 39301
(601) 483-6271
Contact: Dr. Amy Carter (amcarter@mpsdk12.net)

Architect
Dale Bailey an Association
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188 East Capitol Street
Jackson, MS 39201-2100
(601) 352-5411
Contact: Russ Blount (russblount@dalepartners.com)

Structural Design Group
220 Great Circle Road, Suite 106
Nashville, TN 37228
(615) 255-5537
Contact: Tom Schaeffer (Toms@sdg-structure.com)

GSK Mechanical, Inc
201 Park court, Suite A
Ridgeland, MS 39157
(601) 605-2930
Contact: Jason Kackley (jkackley@gskmech.com)

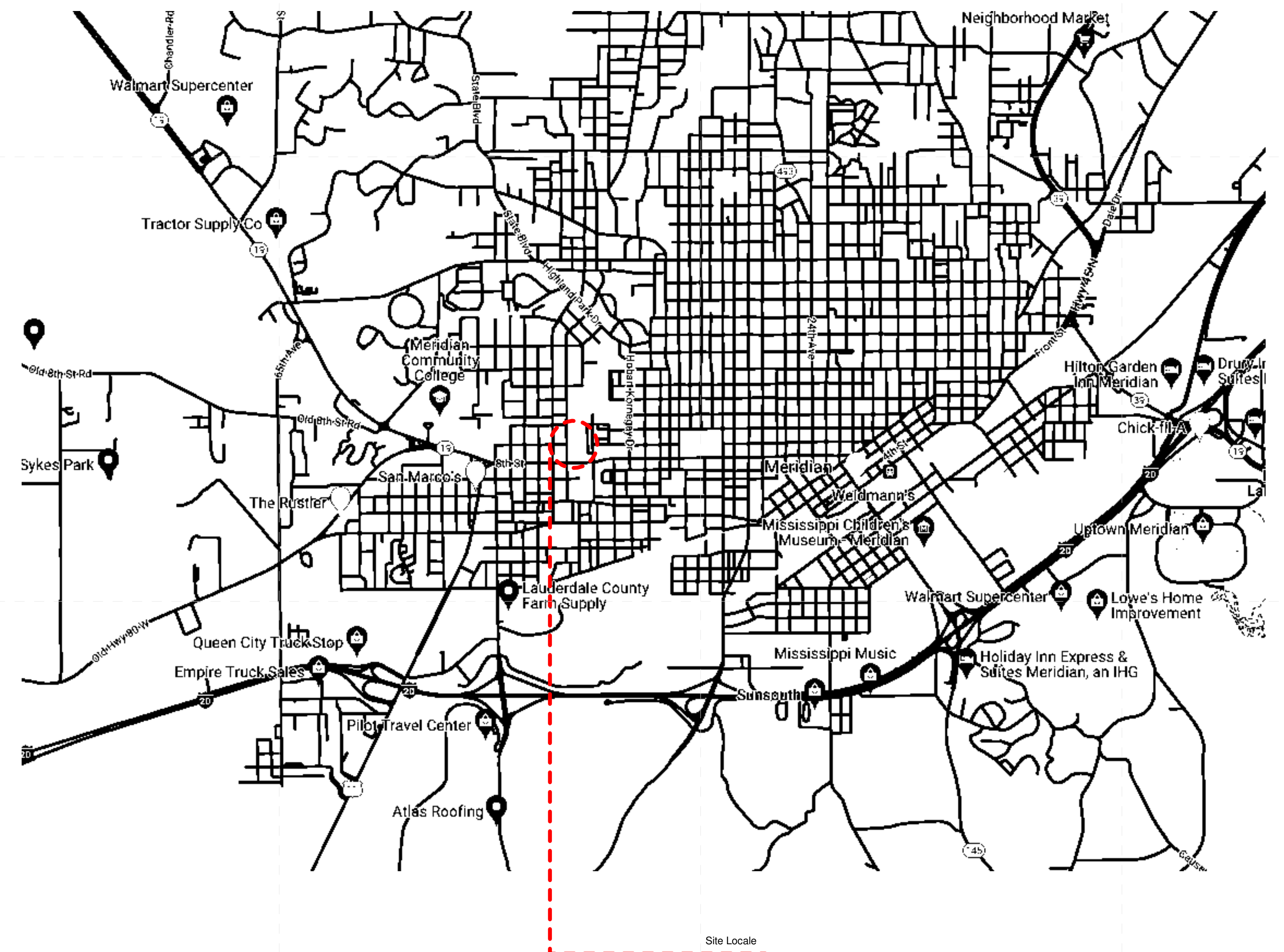
The Power Source, PLLC
305 Highway 51
Ridgeland, MS 39157
(601) 605-4820
Contact: Chris Green (cgreen@thepowersource.us)

Graphic Symbols

	Elevation No.		Building Elevation		Wall Type
	Sheet No.		Building Section		Concrete
	Elevation No.		Wall Section		Brick
	Sheet No.		Interior Elevation		CMU (Plan)
	Detail No.		Detail		Plywood
	Sheet No.		Column Grid		Rigid Insulation
	Door Mark		Metal Stud Partition		Batt Insulation
	North Arrow		1 Hr Rated Wall Partition (See Floor Plan)		Finished Wood
	Spot Elevation		2 Hr Rated Wall Partition (See Floor Plan)		Existing Wall to be Demolished
	Room Name and Number		3 Hr Rated Wall Partition (See Floor Plan)		Center Line
	View Name		Sheet Keynote		

Room name 1001

View On Sheet
View Name
1-1/2" = 1'-0"
Scale



STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

DESIGN CRITERIA

1. Building Code: 2018 International Building Code and ASCE 7-16 (except Chapter 14)
 - 1.1. Building Risk Category: III
2. Design Loads
 - 2.1. Uniform Floor Live Loads (reduced per Building Code, UNO)

General Areas	100	psf
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GENERAL

1. Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise.
2. Material, workmanship, and design shall conform to the referenced Building Code.
3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings.
4. Contractor responsibilities include, but are not limited to, the following:
 - 4.1 Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission prior to installation of associated work.
 - 4.2 Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents.
 - 4.3 The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
 - 4.4 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work.
 - 4.5 Contractor is responsible for locating concrete reinforcement prior to installation of post-installed anchors, through bolts, or other post-installed items in concrete. Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors.
 - 4.6 Contractor shall visit the project site prior to placing a bid to perform any structural repair work in order to observe the existing conditions of the structure.

SUBMITTALS

1. Shop Drawings and Submittals
 - 1.1 Reproduction of Structural Drawings for shop drawings is not permitted.
 - 1.2 Electronic drawing files will not be provided to the Contractor.
 - 1.3 arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.
2. Submittals
 - 2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.

REINFORCEMENT

1. Reinforcing Bars: ASTM A615, Grade 60
 - 1.1 Reinforcing bars are not to be welded.
2. Reinforcement Splices
 - 2.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.
 - 2.2 Splice Lengths (UNO)

Concrete Reinforcement: Class B Tension Lap

CAST-IN-PLACE CONCRETE

1. Concrete Properties
 - 1.1 Normal Weight Structural Concrete

	28-Day, f_c (min.) (max.)	w/cm Ratio	Entrained Air
Slabs-on-Ground	3,500 psi	0.48	None Required

Note: All concrete shall be assigned the Exposure Classes F0, S0, W0, and C0. (see ACI 318). Minimum properties required due to Exposure Class shall govern if more restrictive than the properties given in the Table above.
2. Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.
3. Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.
 - 3.1 Conduit shall not be placed within the slab-on-ground. Conduit shall be installed below the slab-on-ground within the granular subbase.
4. Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.
5. Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.
6. Curing
 - 6.1 Begin curing procedures immediately following commencement of the finishing operation.
 - 6.2 Concrete shall be moist cured in accordance with ACI 308. See Specification for additional information.

DOWEL ADHESIVE

1. Post-installed anchors shall only be installed where indicated on the structural drawings, unless approved by engineer of record.
2. The below products are the design basis for this project. Product diameter and embedment shall be as shown in the details. Install products IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). Refer to the project building code and/or evaluation report for special inspections and proof load requirements. Substitution requests for products other than those listed below may be submitted by the contractor to the Engineer-of-Record (EOR) for review. Substitutions will only be considered for products having a research report recognizing the product for the appropriate application under the project building code. Substitution requests shall include calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design basis product.
 - 2.1 Dowel Adhesive
 - 2.1.1 Reinforcing bars conforming to ASTM A615, Grade 60.
 - 2.1.2 Adhesive conforming to Simpson AT-XP (IAPMO-UES ER-263), Simpson SET-XP (ICC-ES ESR-2508), DeWalt Powers Pure110+ (ICC-ES ESR-3298), DeWalt AC208+ Adhesive (ICC-ES ESR-4027), Hilti HIT-HY 200 SAFE Set Fast Cure Adhesive (ICC-ES ESR-3187), Hilti HIT-RE 500 V3 Safe Set Adhesive (ICC-ES ESR-3814). Minimum Embedment = 12 times anchor diameter, UNO.
3. Contractor shall arrange for an Adhesive manufacturer's representative to provide onsite installation training for all of their adhesive products specified. The structural Engineer of record must receive documented confirmation that all of the contractor's personnel who install anchors are trained prior to the commencement of anchor installation.

DRAWING INDEX	
Sheet Number	Sheet Name
S-001a	STRUCTURAL NOTES & DRAWING INDEX
S-101a	FOUNDATION PLAN & SECTIONS

Architects

One Jackson Place 250
188 East Capitol Street
Jackson, MS 39201
p 601.352.5411

201 Park Court Suite B
Ridgeland, MS 39157
p 601.790.9432

161 Lameuse St. Suite 201
Biloxi, MS 39530
p 228.374.1409

dalebaileyplans.com



Meridian School District Bond Issue

Carver Elementary: 900 44th Ave., Meridian, MS 39307

Project No 22034.04
Date May 5, 2023
Drawn S.T.
Checked W.G./T.S.
Revision # Date



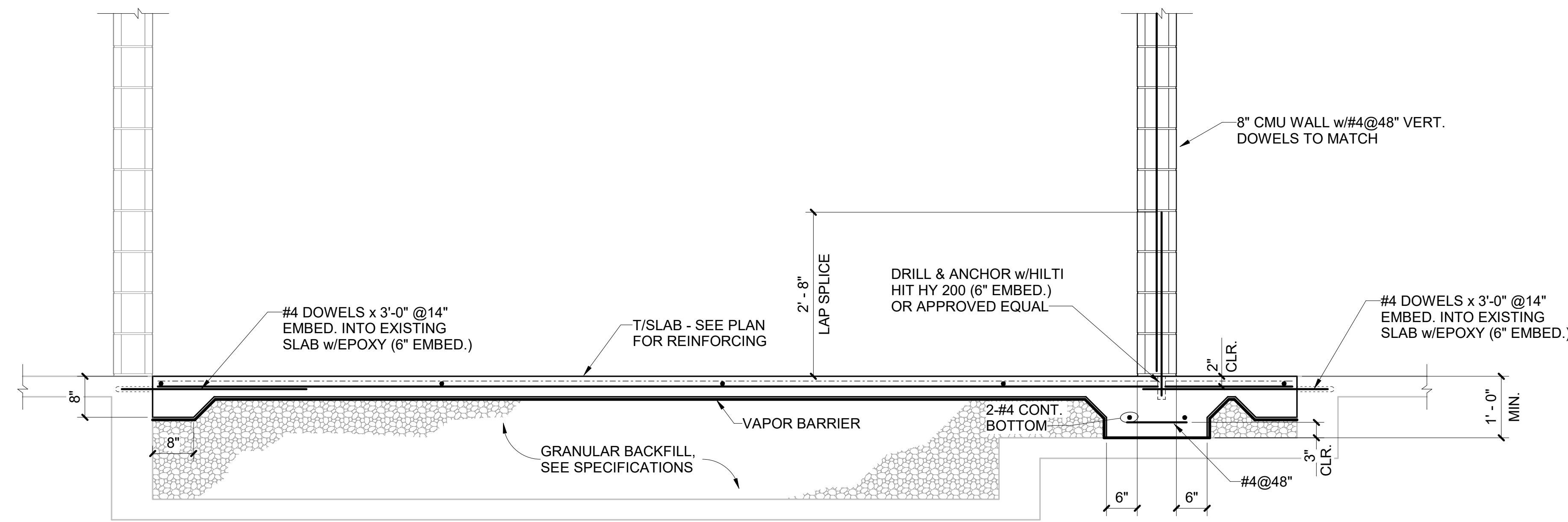
Consulting Structural Engineers

220 Great Circle Road, Suite 106
Nashville, Tennessee 37228
p 615.255.5537
www.sdg-structure.com

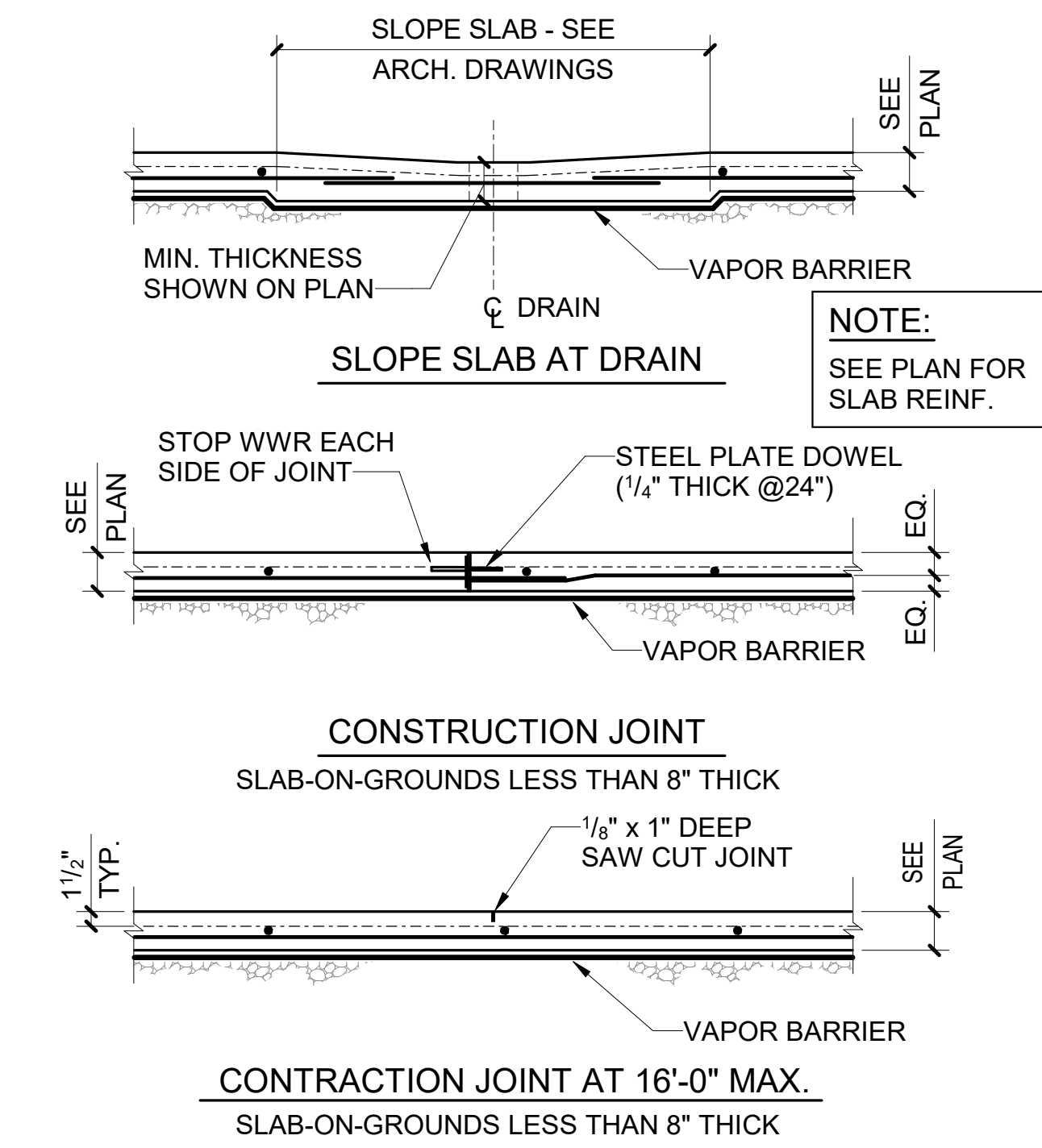
SDG Project No. 2023-072.00
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S-001a

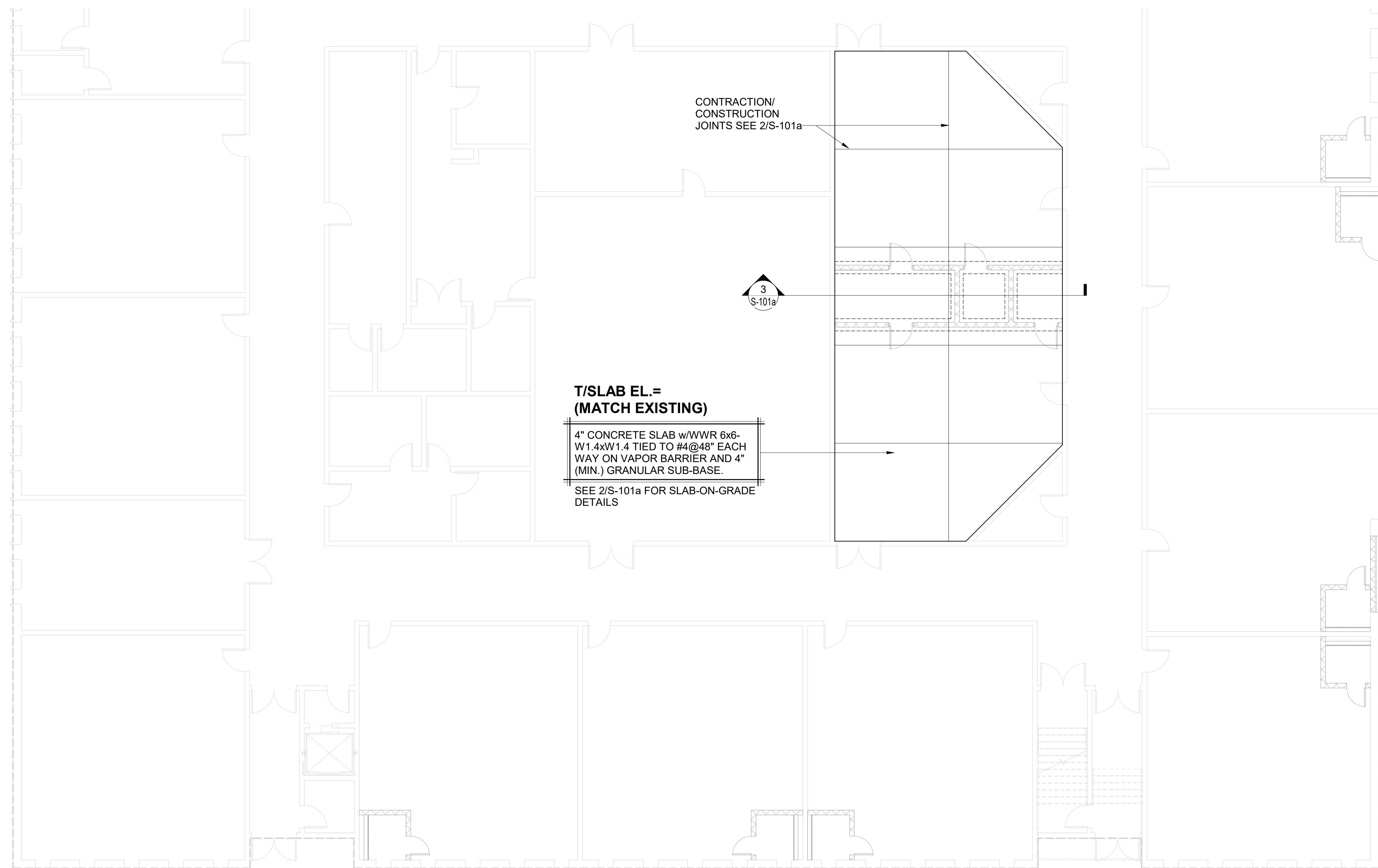
STRUCTURAL NOTES &
DRAWING INDEX



3 TYPICAL INTERIOR SECTION



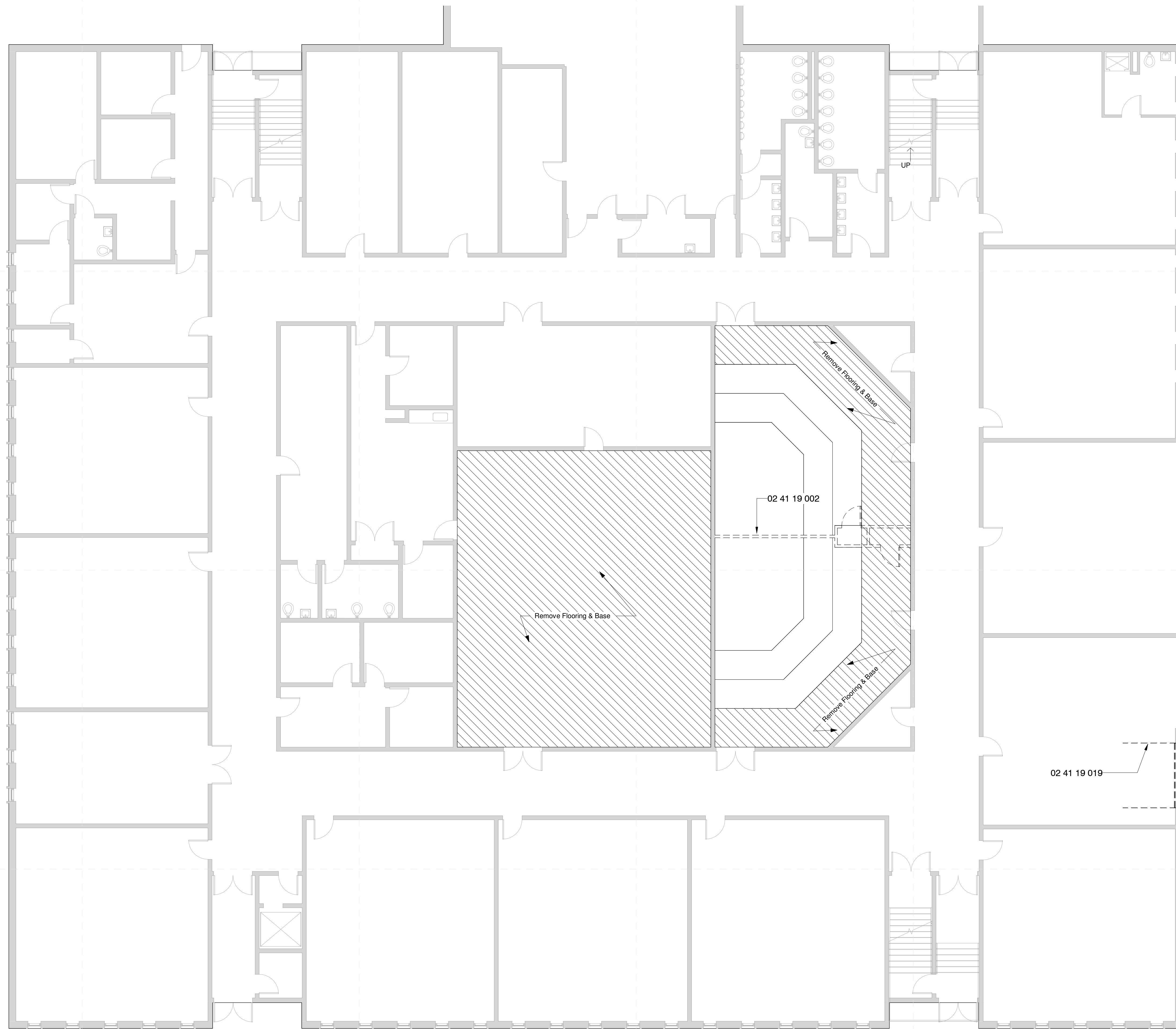
1 TYPICAL SLAB-ON-GROUND DETAILS



1 Foundation Plan
1/8" = 1'-0"

Meridian School District Bond Issue
Carver Elementary: 900 44th Ave, Meridian, MS 39307

Project No	22034.04
Date	May 5, 2023
Drawn	S.T.
Checked	W.G./T.S.
Revision	# Date



1 Level 1 - Demo
1/8" = 1'-0"

General Demolition Notes

1. Dashed lines indicate extent of demolition.
2. Where removal of walls are indicated, remove wall entirely from slab to roof deck unless noted otherwise.
3. Where floor transitions from new floor to existing floor, a floor transition strip is to be provided. A knock-down frame is to be provided in place of the existing frame where the opening is a part of corridor.
4. Remove all existing flooring, ceiling tile, rubber base, etc., where shown to be replaced by new materials in the finish schedule. RE: Floors plans, RCP, and Finish Schedule
5. **Owner has right of refusal for all demo work.** If not retained, GC to be responsible for disposal. In either case, GC is responsible for the demolition work as indicated.
6. Verify all existing conditions. Notify architect of any discrepancies between the existing conditions and these documents. The Contractor is to consider the additional work required by any discrepancies to be included in this Contract.
7. Burying or Burning of materials will not be permitted on site.
8. Repair any damage caused to building construction identified to remain.
9. Refer to other discipline drawings for additional demolition information as noted
10. Schedule with the Owner any demolition that involves exposing to the weather the interior portions of building to remain. This work is to be performed during good, dry weather or temporary waterproof barrier walls shall be constructed at all occurrences where the demolition exposes weather to the interior of portions of buildings to remain.
11. Existing loose school property to be the responsibility of the school district, removal of property by owner to be coordinated between the contractor and school district.
12. Where areas are removed or altered, patch, repair, & paint to match adjacent surface material and finish.
13. Where entire portions of the school are to be removed, temporary and enclosed corridors are to be provided to allow students to traverse the campus as needed throughout construction. This may involve building multiple corridors or one at a time that needs to be moved to maintain a safe and enclosed space for students.
14. Contractor shall be responsible to move shelving and furniture in library for new flooring installation. Return shelving and furniture to original locations after new flooring is installed.

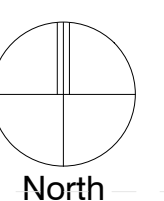
Specific Notes

02 41 19 002	Dashed lines indicated extent of demoed work
02 41 19 019	Remove door panels and jambs; dipose off site



Construction Documents

Project No	22034.04
Date	Mar 5, 2023
Drawn	PPu
Checked	RBI
Revision #	Date





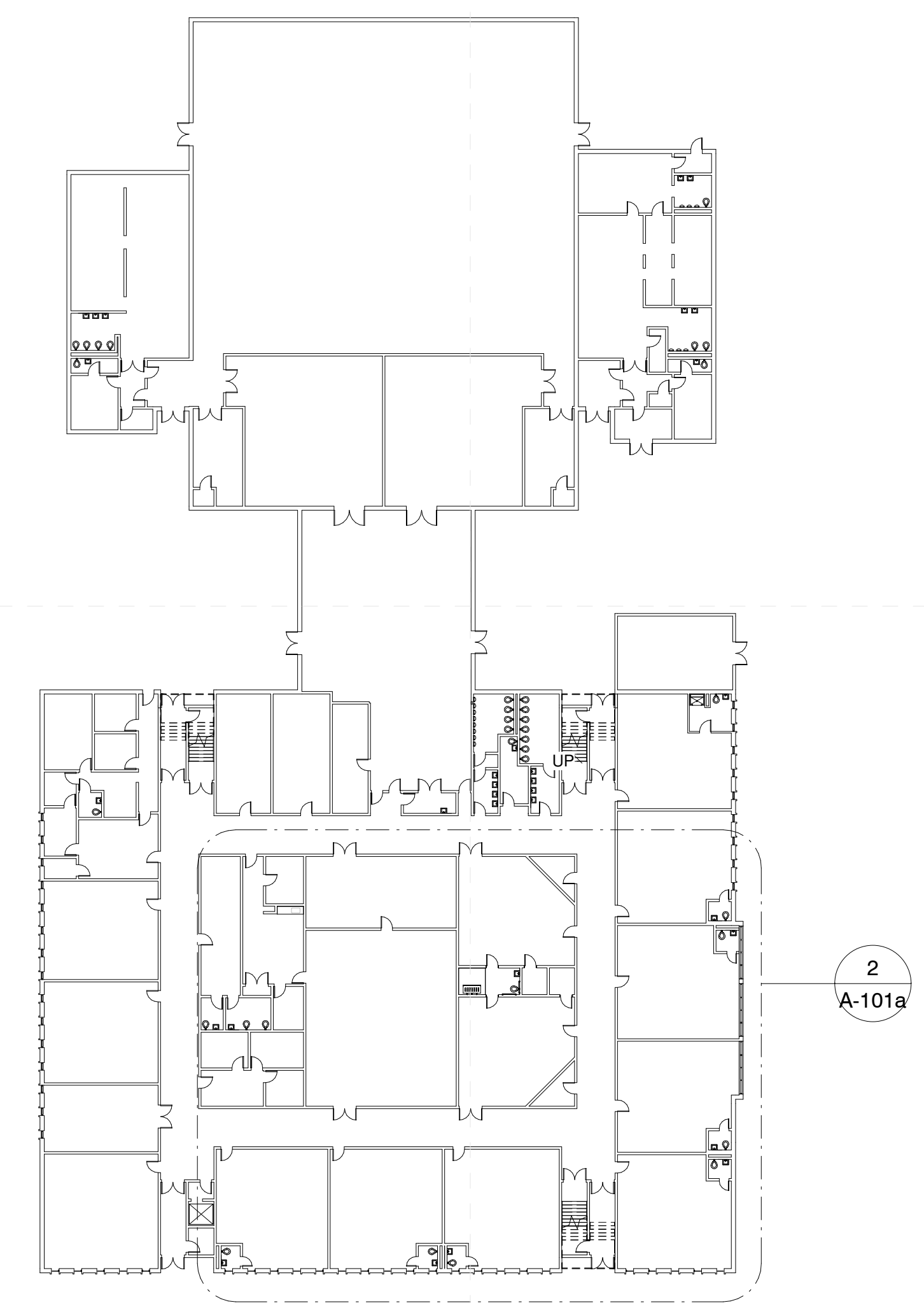
General Notes

- New walls shall be 8" CMU Block to underside of floor/roof deck (notch around structure). Seal Block to Existing with Mastic.
- Excepting grab bars & changing table, include all toilet accessories (1 of each) for each new toilet room as specified in Section 102800.
- Paint newly installed exposed plumbing pipes at exterior to match adjacent materials.

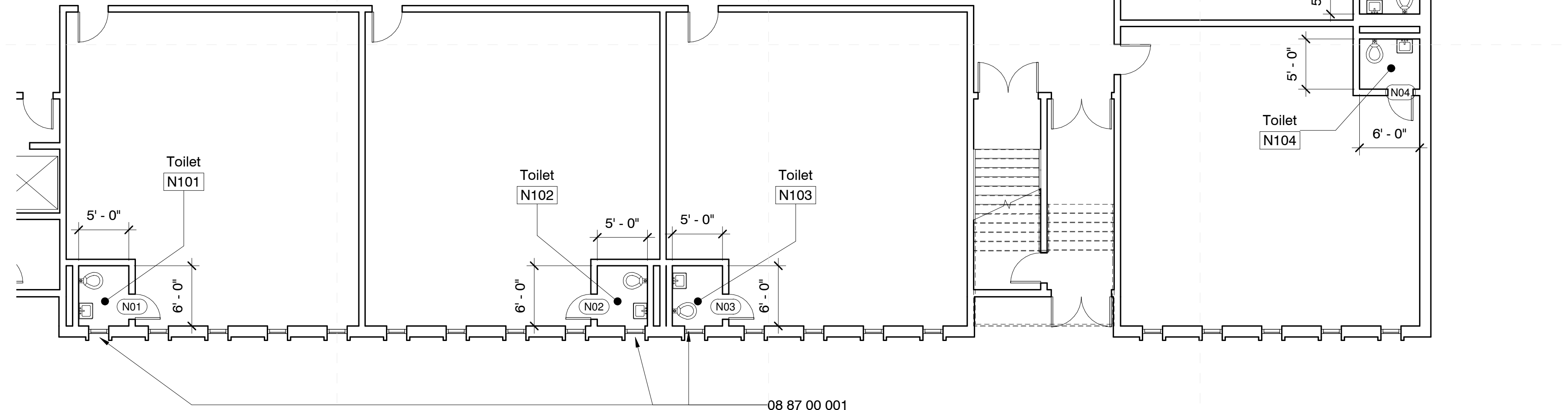
Specific Notes

- 07 62 00 004 Install prefinished metal trim to enclose between new wall and window mullion for full height of opening so that new toilet room is entirely enclosed.
- 08 87 00 001 Provide privacy film at all windows inside toilet rooms.
- 10 28 13 003 Install new ADA/AMD Grab bars here
- 10 28 13 19 Install adjustable, fold away, adult changing table that is fully resistant to regular water exposure.
- 10 28 13 19 Install standard 3 piece grab bar set for ADA shower.

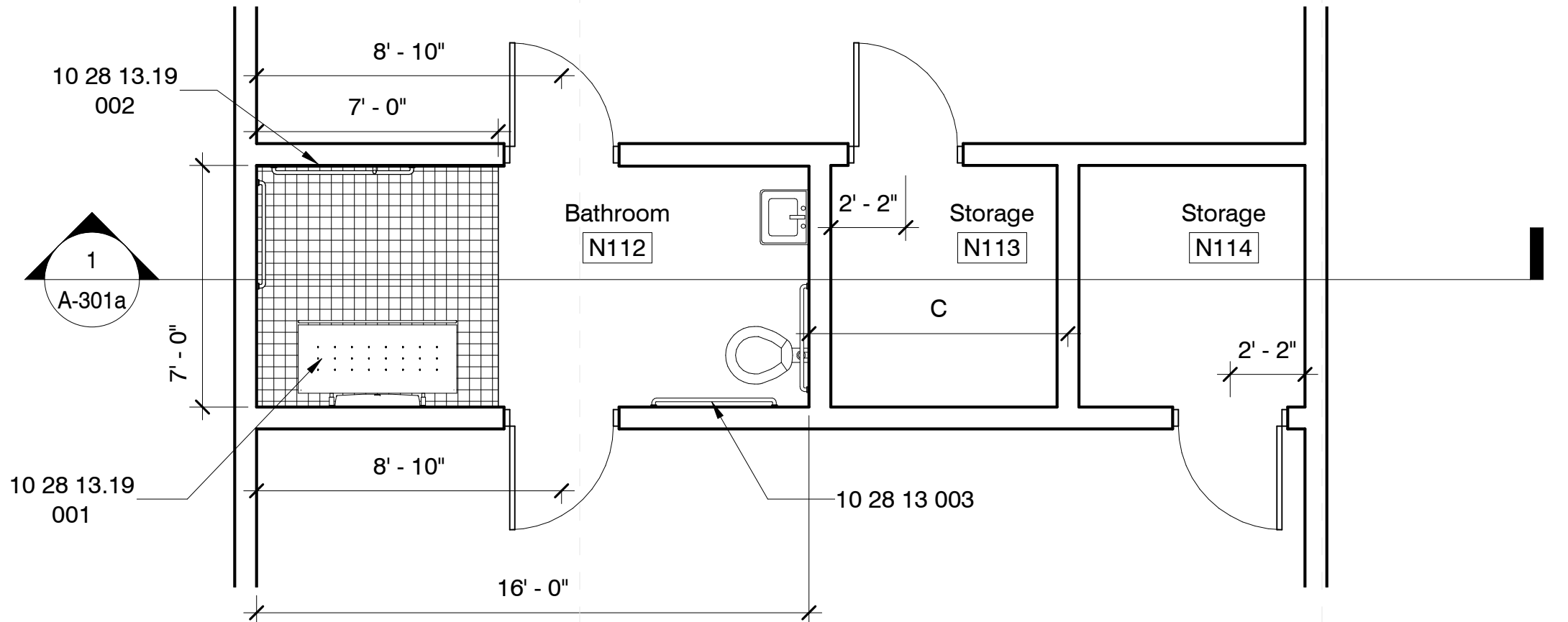
1 Level 1 - New
1/32" = 1'-0"



2 Level 1 - New Work Area
1/8" = 1'-0"



3 Level 1 - ADA Toilet & Shower
1/4" = 1'-0"



Door Schedule New

Mark	Door				Frame				Fire Rating (Min)	Location	Notes	#
	Dr	W	Tot W	Ht	Matl	EI	Glz	Matl				
N01	2'-6"	2'-6"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N01
N02	2'-6"	2'-6"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N02
N03	2'-6"	2'-6"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N03
N04	2'-6"	2'-6"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N04
N05	2'-6"	2'-6"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N05
N06	2'-6"	2'-6"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N06
N07	2'-6"	2'-6"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N07
N09	3'-0"	3'-0"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N09
N10	3'-0"	3'-0"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N10
N11	3'-0"	3'-0"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N11
N12	3'-0"	3'-0"	7'-0"	7'-0"	HM (painted)			Steel (painted)		0		N12
Grand total: 11												

Finish Schedule - New & Remodel

Num	Room Name	Floor	Base	Finishes Wall	Ceiling	Comments	#
N11	Class	VCT	Rubber	CMU (painted)	ACT		N11
N101	Toilet	Tile	Tile	Tile	ACT		N101
N102	Toilet	Tile	Tile	Tile	ACT		N102
N103	Toilet	Tile	Tile	Tile	ACT		N103
N104	Toilet	Tile	Tile	Tile	ACT		N104
N105	Toilet	Tile	Tile	Tile	ACT		N105
N106	Toilet	Tile	Tile	Tile	ACT		N106
N107	Toilet	Tile	Tile	Tile	ACT		N107
N110	Class	VCT	Rubber	CMU (painted)	ACT		N110
N112	Bathroom	Tile	Tile	ACT (vinyl covered)	ACT		N112
N113	Storage	VCT	Rubber	CMU (painted)	ACT		N113
N114	Storage	VCT	Rubber	CMU (painted)	ACT		N114



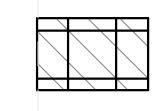
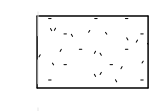
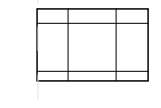

General RCP Notes

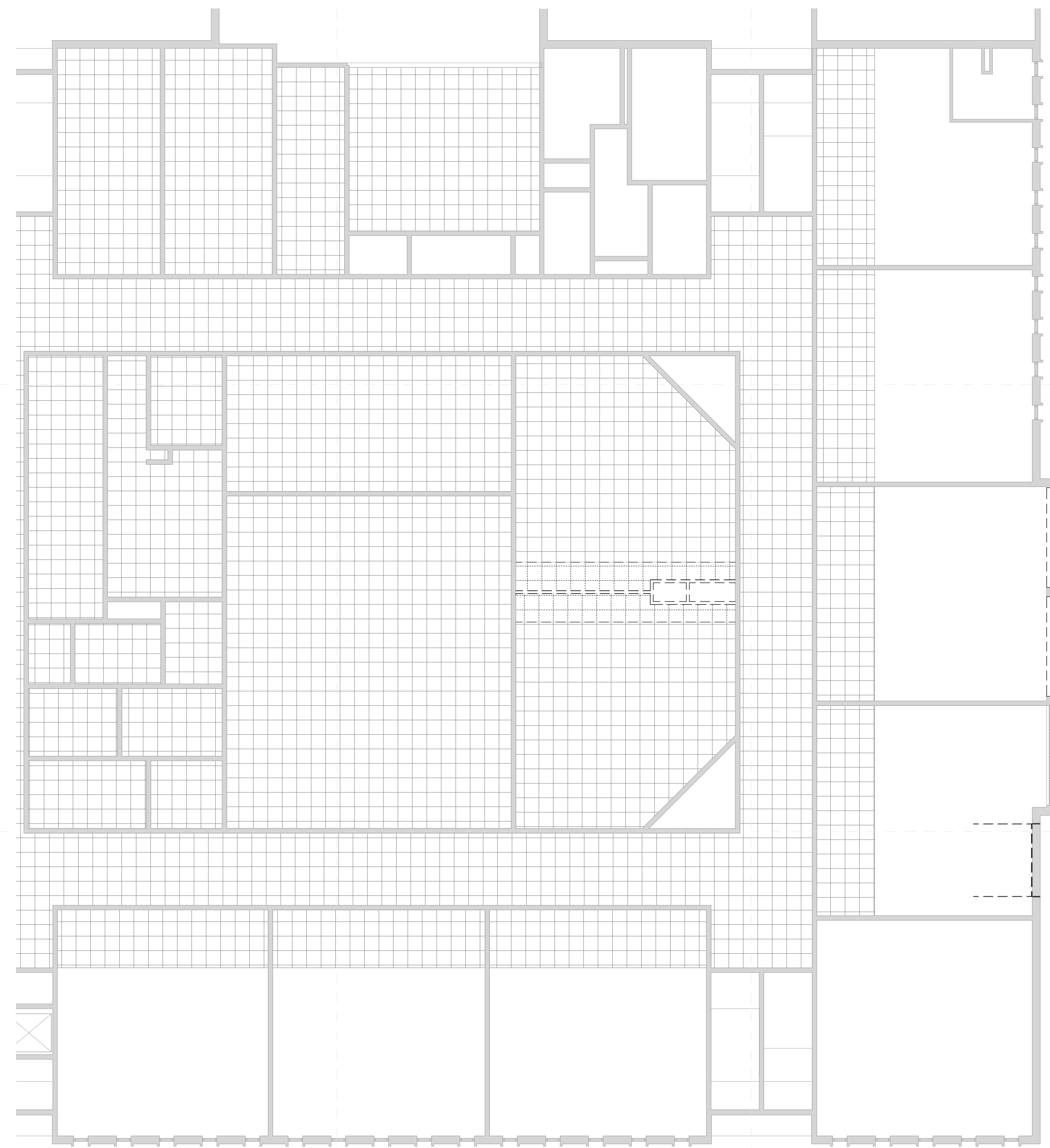
1. All ceiling heights as noted.
2. All exposed structural elements to be painted at rooms labeled OTS, unless noted otherwise.
3. At windows, install Metal trim to underside of floor deck to conceal above ceiling gap from exterior views. Gauge to be sufficient to prevent Oil-Canning.

General RCP Demolition Notes

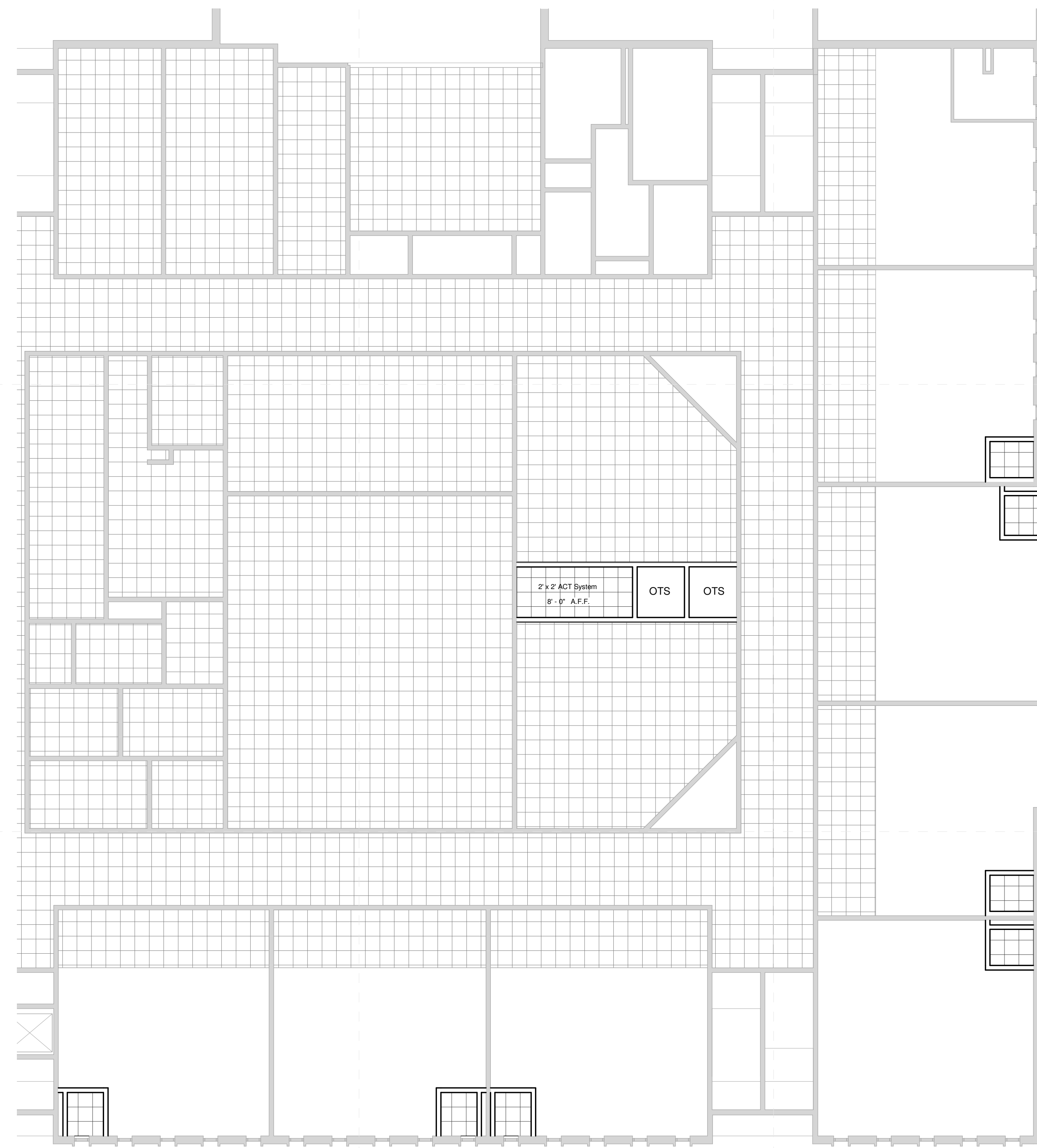
1. Where ceiling transitions from new ceiling to existing ceiling, coordinate with Architect detail.
2. Remove all existing ceiling grid & tile unless noted otherwise, as well as any wall fasteners and/or mastics attached therein where shown to be replaced by new materials.
3. Owner has right of refusal for all demo work. If not retained, GC to be responsible for disposal.
4. Verify all existing conditions. Notify architect of any discrepancies between the existing conditions and these documents. The Contractor is to consider the additional work required by any discrepancies to be included in this Contract.
5. Burying or Burning of materials will not be permitted on site.
6. Repair any damage caused to building construction identified to remain.
7. Refer to other discipline drawings for additional demolition information as noted.
8. Existing loose school property to be the responsibility of the school district, removal of property by owner to be coordinated between the contractor and school district.
9. Where areas are removed or altered, patch, repair, & paint to match adjacent surface material and finish.
10. No work in rooms with ceiling open to the structure above, unless noted otherwise.

Ceiling Legend

-  Moisture Resistant Acoustical Lay In Ceiling
-  Gypsum Board Ceiling
-  2x2 Acoustical Lay In Ceiling
-  N.I.C.



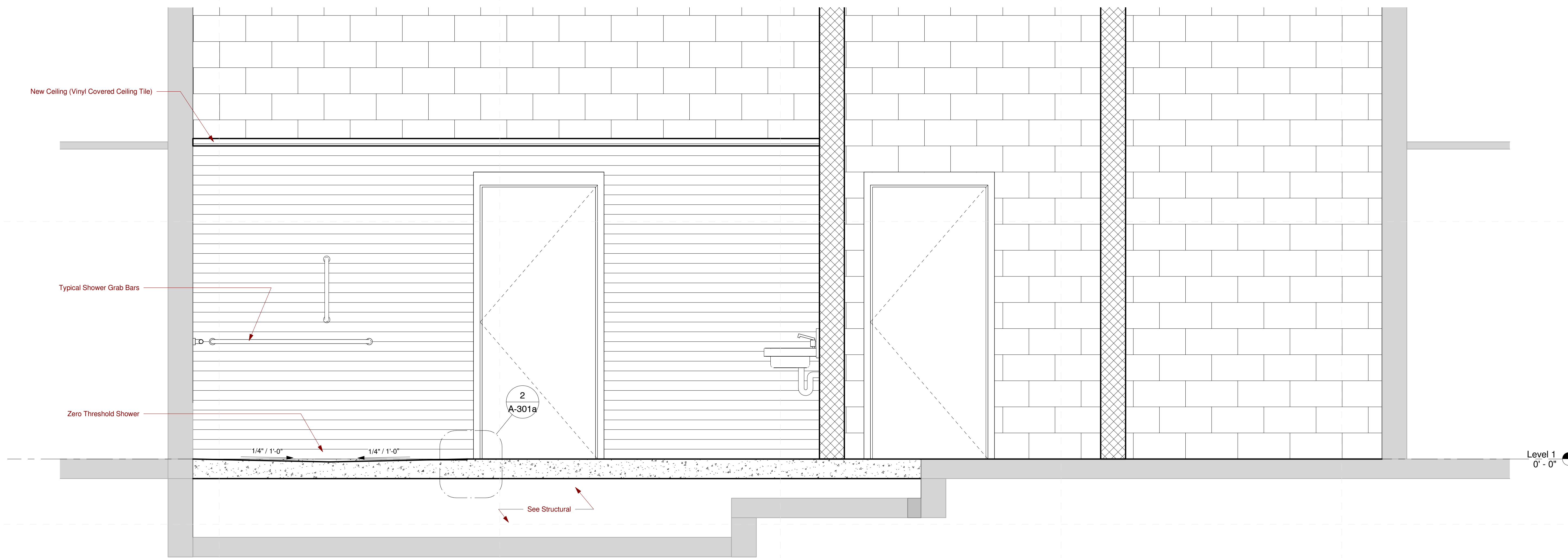
2 Level 1 - Demo
3/32" = 1'-0"



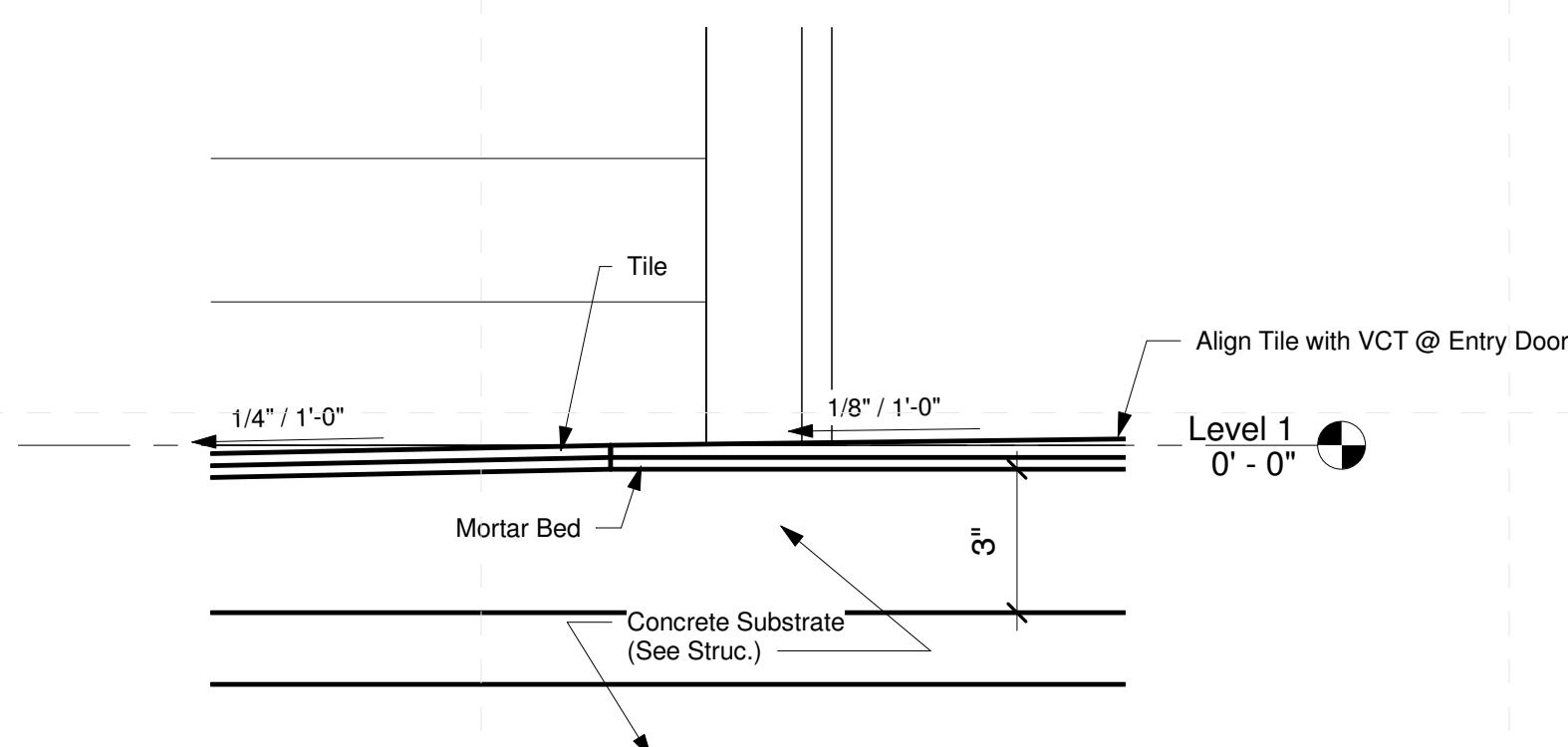
1 Level 1 - New
3/32" = 1'-0"

Construction Documents

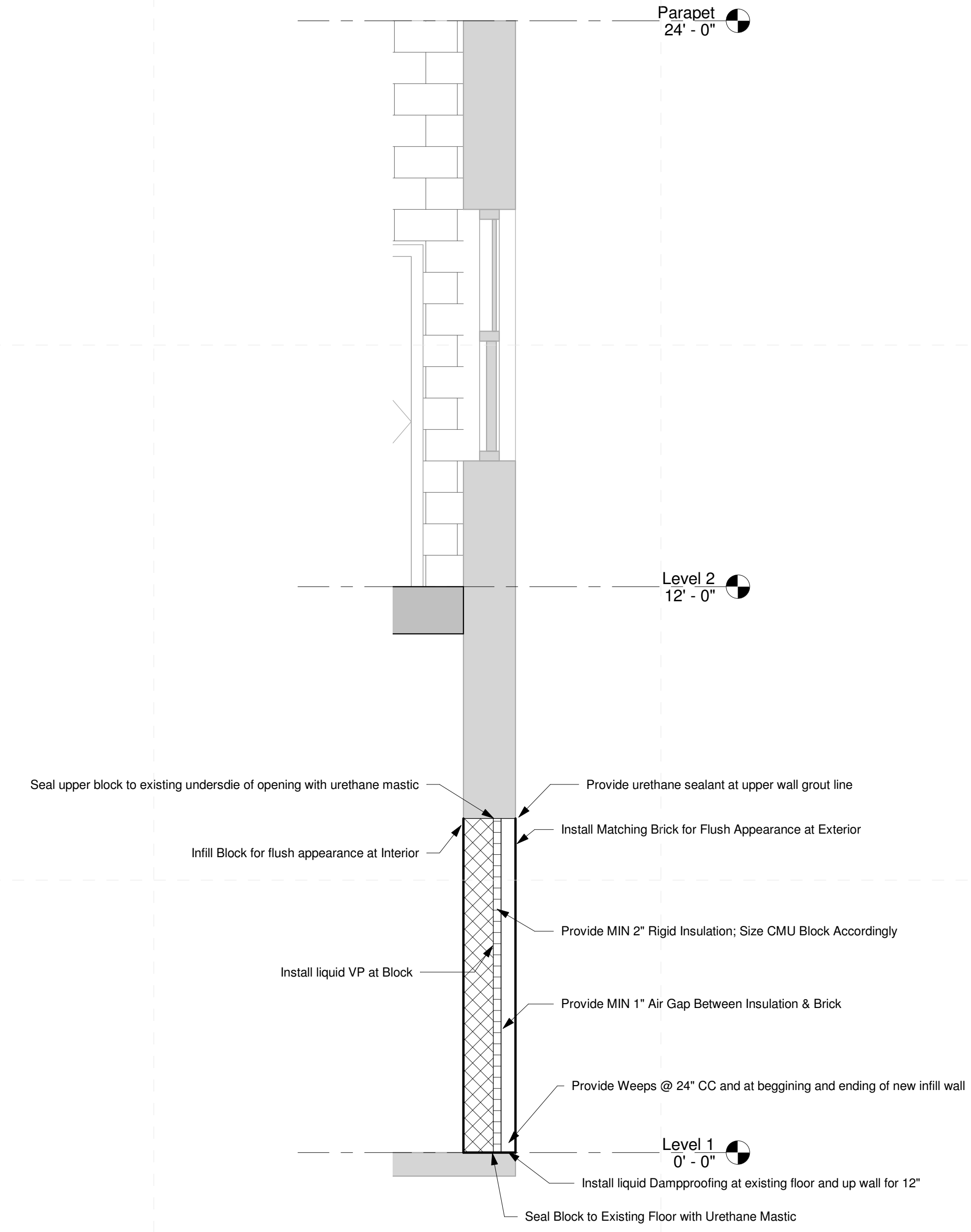
Project No	22034.04
Date	Mar 5, 2023
Drawn	TBD
Checked	TBD
Revision #	Date



1 Section at Floor Infill
3/4" = 1'-0"



2 Shower Threshold
3" = 1'-0"



3 Wall Infill
1/2" = 1'-0"

GENERAL PLUMBING NOTES:

1. PROVIDE ALL PLUMBING PIPING, FIXTURES, TRIM, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL PLUMBING SYSTEM. VERIFY WITH ARCHITECT AND DRAWINGS, WHICH PLUMBING INSTALLATIONS ARE DESIGNATED FOR ADA ACCESSIBILITY. ALL SUCH FIXTURE INSTALLATIONS SHALL INCLUDE ALL INSTALLATION ACCESSORIES, MOUNTING HEIGHT, CONTROL OFFSET, SIZE AND ACCESSIBILITY AS REQUIRED BY LATEST EDITION OF AMERICANS WITH DISABILITIES ACT (ADA) AND LOCAL GOVERNING AUTHORITIES.
2. ALL PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS, EXCEPT AS OTHERWISE NOTED AND AT APPROPRIATE EQUIPMENT FINAL CONNECTIONS. HOLD ALL PIPING ABOVE CEILINGS AS HIGH AS POSSIBLE AND COORDINATE WITH OTHER CRAFTS.
3. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH STRUCTURAL MEMBERS, EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
4. VERIFY/COORDINATE PIPE SIZES AND CONNECTIONS WITH "PLUMBING FIXTURE ROUGH-IN SCHEDULE" FOR WASTE, VENT AND WATER PIPING. ROUGH-IN SIZES NOT CLEARLY SHOWN ON PLANS OR IN RISER DIAGRAMS, ETC. CONTACT PROFESSIONAL SHOULD QUESTIONS OR CONFLICTS ARISE. PROVIDE ROUGH-IN, FINAL CONNECTIONS AND INSTALLATION APPURTENANCES AS RECOMMENDED BY APPLIANCE AND/OR EQUIPMENT MANUFACTURER FOR DISHWASHERS, ICE MAKERS, AND MACHINES, WASHERS, DRYERS, ETC. VERIFY LOCATION ON ARCHITECTURAL DRAWINGS AND CONNECTION REQUIREMENTS FROM APPROVED BROCHURES OF THE EQUIPMENT AND/OR APPLIANCES MANUFACTURER.
5. COORDINATE SLOPE OF ALL DRAINAGE AND VENT PIPING BELOW GRADE AT INVERT ELEVATIONS INDICATED. CONSISTENTLY SLOPE ALL OTHER PIPING, NOT INDICATED, AS REQUIRED BY PLUMBING CODE APPLICABLE TO THIS PROJECT BUT IN NO CASE LESS THAN 1%.
6. ALL VERTICAL RISERS TO FLOOR DRAINS SHALL BE MAXIMUM 24" LONG.
7. ALL ABOVE GRADE VENT PIPING ROUTING SHALL BE COORDINATED WITH OTHER CRAFTS AND STRUCTURAL/ARCHITECTURAL DRAWINGS. CONSISTENTLY SLOPE ALL PIPING, NOT INDICATED WITH ELEVATIONS, AS REQUIRED BY PLUMBING CODE APPLICABLE TO THIS PROJECT BUT IN NO CASE LESS THAN 1%.
8. ALL CLEANOUTS IN SANITARY PIPING SHALL BE FULL PIPE SIZE UP TO 4" AND SHALL BE 4" SIZE ON 6" AND LARGER PIPING.
9. COORDINATE UNDERGROUND PIPING WITH GRADE BEAMS AND WALL FOOTINGS. SLEEVE ALL GRADE BEAMS UTILIZING SLEEVES A MINIMUM 2 SIZES LARGER THAN DRAINAGE PIPING SIZE. SOME SLEEVES MAY NOT BE SHOWN, BUT SLEEVES AT ALL GRADE BEAM HORIZONTAL AND VERTICAL PIPING PENETRATIONS ARE REQUIRED.
10. PROVIDE NEAT PIPE SLEEVES AT ALL SANITARY PIPING EXTERIOR WALL PENETRATIONS. FILL VOID IN ANNULAR SPACE WITH NEAT ELASTOMERIC SEALANT. BELOW GRADE SLEEVES INTO HABITABLE SPACES SHALL INCLUDE WATER-TIGHT SLEEVES AS "LINK SEAL".
11. PROVIDE DI-ELECTRIC BUSHINGS IN ALL PIPE SYSTEMS WHERE UNLIKE METALS ARE CONNECTED, I.E., COPPER TO STEEL. PROVIDE STEEL SLEEVES IN ALL FLOORS, WALLS, ROOF DECK, ETC. FOR PIPE PENETRATIONS. SLEEVES SHALL BE OF SUFFICIENT DIAMETER TO ACCOMMODATE PIPE AND INSULATION, WHERE APPROPRIATE. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALL AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO WALLS AS POSSIBLE.
12. PROVIDE 12" X 12" LOCKING PIANO HINGED ACCESS PANELS FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
13. PIPE ALL DRIPS, DRAINS, RELIEFS, ETC. TO THE NEAREST FLOOR DRAIN UNLESS OTHERWISE INDICATED.
14. DO NOT RUN PLUMBING PIPING THROUGH OR OVER ELECTRICAL CLOSETS OR WITHIN 3'-0" OF ELECTRICAL PANEL FRONTS.
15. DISINFECT ALL NEW POTABLE WATER PIPING SYSTEMS WITH DOCUMENTATION PER SPECIFICATIONS AND PRIOR TO SWAP OVER OF NEW POTABLE WATER SERVICES.
16. PRIOR TO SUBMITTING A BID, VISIT THE SITE OF THE PROPOSED CONSTRUCTION & BECOME THOROUGHLY ACQUAINTED WITH EXISTING CONDITIONS TO BE ENCOUNTERED ETC. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONDITIONS WHICH WERE NOT KNOWN OR APPRECIATED WHEN SUBMITTING A BID IF THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED. THE INTENT IS FOR ALL UTILITIES, WHETHER ACTIVE OR ABANDONED, ROUTED BELOW GRADE IN THE AREA ENCOMPASSED BY THE NEW CONSTRUCTION, TO BE DISCONNECTED, REMOVED & RELOCATED (IF ACTIVE) TO PRESERVE EXISTING LOAD OR CAPACITY. THE LOCATION OF ALL UTILITIES, NEW OR EXISTING, SHALL BE DULY IDENTIFIED AS TO SIZE, MATERIAL, AND FUNCTION OF PIPE, ETC. ON AS-BUILT DRAWINGS.
17. WHEN ENCOUNTERED IN WORK AREA, WHETHER OR NOT INDICATED, CAP OR PLUG OR OTHERWISE DISCONTINUE EXISTING INACTIVE SEWER, GAS, WATER, ELECTRIC, OR OTHER UTILITY SERVICE, STRUCTURES, OF WHICH, ACTION SHOULD BE TAKEN. IF REMOVAL IS REQUIRED, REQUEST INSTRUCTIONS FROM ARCHITECT/PROFESSIONAL.
18. WHEN ENCOUNTERED IN WORK AREA, WHETHER OR NOT INDICATED, PROTECT EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, OTHER UTILITY SERVICES, STRUCTURES, WHERE REQUIRED FOR PROPER EXECUTION OF WORK. RELOCATE THEM AS DIRECTED. IF EXISTING ACTIVE SERVICE ARE NOT INDICATED, CONTACT PROFESSIONAL FOR INSTRUCTIONS.
19. PROVIDE WATER HAMMER ARRESTORS ON ALL PLUMBING FIXTURES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

SPECIFICATIONS - PLUMBING

- SUBMITTALS:**
REFER TO ARCHITECTURAL SPECIFICATIONS FOR SUBMITTAL PROCEDURES. PROVIDE SUBMITTALS FOR THE FOLLOWING:
A. PLUMBING FIXTURES AND TRIM
B. WATER HEATERS AND ACCESSORIES
C. PIPE, VALVES AND FITTINGS
- CLOSE-OUT DOCUMENTS:**
REFER TO ARCHITECTURAL SPECIFICATIONS FOR CLOSE-OUT PROCEDURES. PROVIDE CLOSE-OUT DOCUMENTATION FOR THE FOLLOWING:
A. TAB REPORT
B. AS BUILT-DRAWINGS
C. O&M MANUALS OF PLUMBING FIXTURES, ETC.
- OWNER OPERATING & MAINTENANCE MANUALS AND INSTRUCTIONS:**
A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SETUP AND TRAIN THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT PROVIDED AND/OR INSTALLED WITH THIS PROJECT. THE SAFE OPERATION OF ALL PLUMBING AND SYSTEMS SHALL BE ADEQUATELY CONVEYED TO PERTINENT OWNER PERSONNEL, ALONG WITH INSTRUCTIONS ON WHAT IS OWNER'S RESPONSIBILITY, AND WHOM TO CONTACT FOR STANDARD ONE (1) YEAR WARRANTY, AND AFTERWARDS FOR EXTENDED WARRANTIES. SAME INFORMATION SHALL BE INCLUDED IN O&M MANUALS.
B. SUBMIT TWO(2) COMPLETE SETS OF HARDBOUND BROCHURES, INDEXED, AND LABELED FOR EACH PIECE OF EQUIPMENT. THE MANUALS SHALL BE TRANSMITTED TO THE OWNER AT THE COMPLETION OF THE PROJECT.
C. INCLUDE IN THESE BROCHURES WRITTEN SUBMITTAL DATA, MANUFACTURER'S OPERATING AND MAINTENANCE PROCEDURES AND RECOMMENDATIONS, SPARE PARTS LISTS AND SUPPLIERS AND ANY INTERLOCKING CONTROL OR WIRING DIAGRAMS FOR ALL EQUIPMENT. THE INFORMATION LISTED HEREIN IS TO BE BOUND IN THE FOLLOWING ORDER:
COVER TO LIST PROJECT NAME, LOCATION, AND DATE COMPLETED.
1. FIRST SHEET TO LIST ARCHITECT, ENGINEER, CONTRACTOR AND SUBCONTRACTORS WITH ADDRESSES FOR EACH.
2. SECOND SHEET TO LIST TYPE OF EQUIPMENT WITH SEQUENTIAL NUMBER, THE MANUFACTURER, MAKE, MODEL, AND SERIAL NUMBER OF THE ACTUAL EQUIPMENT NAMEPLATE DATA RATED HORSEPOWER, FULL LOAD RATED AMPS, VOLTAGE AND PHASE. INCLUDE PERTINENT CONTACT INFORMATION ON STANDARD ONE YEAR WARRANTY AND EXTENDED WARRANTY WORK.
3. NEXT, ACTUAL COPY OF APPROVED SUBMITTAL DATA INCLUDING ALL MANUFACTURER'S PUBLISHED INFORMATION ON CAPACITIES, CAPACITY CURVES OR TABLES, ACCESSORY AND CONTROL ITEM LISTS, AND OTHER PERTINENT INFORMATION AS REQUESTED BY ENGINEER. CROSS REFERENCE ALL EQUIPMENT TO CONTRACT DOCUMENTS.

- AS-BUILT DRAWINGS (PROJECT RECORD DOCUMENTS):**
A. MAINTAIN AT JOB SITE A SET OF CONTRACT RECORD DOCUMENTS KEPT CURRENT BY INDICATING THEREON ALL CHANGES, SUBSTITUTIONS, ETC., BETWEEN WORK AS SPECIFIED AND AS INSTALLED, IN RED INK.
B. AT THE COMPLETION OF THE PROJECT, FURNISH THE OWNER TWO(2) SETS OF BLUELINES SHOWING INSTALLED LOCATION, SIZE, ETC., OF ALL WORK AND MATERIAL AS TAKEN FROM RECORD DOCUMENTS. ALL AS-BUILT (ON RECORD) DRAWINGS SHALL BE LABELED "AS-BUILT DRAWINGS", DATED AND CERTIFIED AS ACCURATE BY MECHANICAL CONTRACTOR WITH HIS SIGNATURE, ON FRONT PAGE OF ALL DRAWING BLUELINE SETS AND SPECIFICATIONS.

- PLUMBING IDENTIFICATION:**
A. NEW OR EXISTING POTABLE WATER AND GAS PIPING THROUGHOUT SPACE SHALL BE NEWLY IDENTIFIED WITH MANUFACTURED SELF ADHESIVE LABELING, WITH ANSI APPROVED COLORED BACKGROUND. LETTERING SHALL BE MINIMUM 1/2" TALL ON PIPING 1" SIZE AND SMALLER, AND 1" TALL ON LARGER PIPING. PROVIDE LABELING THROUGHOUT ON MINIMUM 10' CENTERS. PROVIDE LABELING AFTER FINAL PAINTING OF UTILITIES HAS BEEN APPROVED BY ARCHITECT. LABELING SHALL BE AS SETON OR BRADLEY.

- VALVES:**
A. **VALVES FOR DOMESTIC WATER APPLICATIONS:**
(ALL VALVES SHALL BE NSF 61 COMPLIANT AND CONTAIN LESS THAN 0.25% LEAD (PB) BY WEIGHT)
B. **BALL VALVES:**
1. VALVES 2" AND SMALLER SHALL BE TWO-PIECE BRASS OR STAINLESS-STEEL CONSTRUCTION, 1-1/4" EXTENDED NECK, CHROME PLATED BALL WITH FULL PORT, P.T.F.E. SEALS AND SEATS, HEAVY DUTY STEEL HANDLE WITH VINYL GRIP, QUARTER TURN OPERATION. VALVES SHALL BE SUITABLE FOR WORKING PRESSURE OF 200 PSIG AND MAXIMUM 250DEG F.
2. VALVES 2-1/2" AND LARGER SHALL BE SAME AS ABOVE EXCEPT THAT TWO OR THREE-PIECE BRASS OR STAINLESS-STEEL CONSTRUCTION MAY BE UTILIZED.

- GENERAL PLUMBING DEMOLITION NOTES:**
1. WHERE PLUMBING FIXTURES ARE NOTED HEREIN TO BE DEMOLISHED, ALSO REMOVE ALL ASSOCIATED PIPING, ACCESSORIES, TRIM, HANGERS, ETC. UNLESS NOTED OTHERWISE.
 2. WHERE PLUMBING FIXTURES ARE NOTED HEREIN TO BE REPLACED, EXISTING ASSOCIATED PIPING, ACCESSORIES, ETC. SHALL REMAIN.
 3. WHERE DIRECTED TO CAP SERVICES AS NOTED HEREIN, CAP ALL PIPING ASSOCIATED WITH DEMOLISHED FIXTURE IN WALL, ABOVE CEILING OR BELOW FLOOR AS REQUIRED FOR FINISHED APPEARANCE. DISCONNECT AND REMOVE ALL PIPING NOT UTILIZED IN NEW SCOPE OF WORK.
 4. PATCH AND REPAIR ALL AREAS AFFECTED TO MATCH ADJACENT OR AS DIRECTED/APPROVED BY ARCHITECT. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, WALL REPAIR, CONCRETE REPAIR, PAINTING, ETC. COORDINATE FINISHES WITH ARCHITECTURAL DRAWINGS.
 5. ALL REMOVED PLUMBING EQUIPMENT AND FIXTURES SHALL BE OFFERED TO OWNER. THOSE NOT ACCEPTED BY OWNER SHALL BE DISPOSED OF OFF SITE PER LOCAL CODES AND ORDINANCES. ALL OTHER DEMOLISHED MECHANICALLY RELATED MATERIALS SHALL BE DISPOSED OF SIMILARLY.
 6. PIPING LOCATED IN WALLS TO REMAIN, OR BELOW SLAB/FLOOR, THAT DOES NOT CONFLICT WITH NEW WORK, MAY REMAIN AND BE CAPPED FOR CONCEALMENT AND DISCONNECTED FROM ACTIVE SERVICE, ETC.
 7. PROVIDE ANY TEMPORARY CONNECTIONS REQUIRED TO MAINTAIN PLUMBING SERVICES TO NEW AND EXISTING FIXTURES AND INSTALLATIONS BEING UTILIZED OUTSIDE THE AREA BEING RENOVATED.

- GENERAL PLUMBING RENOVATION NOTES:**
1. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT OF ALL FIXTURES AND DESIGNATION OF ADA COMPLIANT FIXTURES. VERIFY/COORDINATE EXISTING ROUGH-IN LOCATIONS AND MODIFY ACCORDINGLY TO MATCH NEW MOUNTING HEIGHTS AND ADA COMPLIANCE.
 2. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL NEW AND EXISTING PLUMBING UTILITIES WITHIN THE SCOPE OF WORK. THE USE OF EXISTING DRAWINGS WHERE AVAILABLE AND SCHOOL MAINTENANCE PERSONNEL SHOULD BE UTILIZED IN LOCATING PIPING INSIDE THE BUILDING WHERE CONNECTIONS TO EXISTING ARE REQUIRED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RESEARCH LOCATION OF EXISTING UTILITIES AND EXISTING CONDITIONS.
 3. IN ALL AREAS OF RENOVATION, UNLESS OTHERWISE INDICATED, EXISTING PLUMBING SERVICES SHALL BE MODIFIED AND EXTENDED IN CHASES, WALLS, BELOW SLAB/FLOOR AND/OR ABOVE CEILING AS REQUIRED TO CONNECT TO NEW PLUMBING FIXTURES AND/OR RECONNECT EXISTING PLUMBING FIXTURES WHERE INDICATED.
 4. UNLESS OTHERWISE INDICATED, IN MULTI-FIXTURE PLUMBING BATTERIES, OPEN WALL, CONNECT TO AND MODIFY EXISTING NEARBY DOMESTIC WATER PIPING AND PROVIDE NEW FULL-SIZE WATER SERVICE PIPING HEADER IN CHASE OR ABOVE CEILING, ETC. WITH BRANCH PIPING CONNECTIONS TO INDIVIDUAL FIXTURES AS INDICATED ON PLUMBING FIXTURE ROUGH-IN SCHEDULE. PROVIDE NEW WATER HAMMER ARRESTORS FOR EACH GROUP OF FIXTURES. PATCH AND REPAIR ALL AREAS AFFECTED AS DIRECTED/APPROVED BY ARCHITECT.
 5. OPEN WALLS AND MODIFY EXISTING WATER PIPING WHERE REQUIRED FOR NEW ADA COMPLIANT FLUSH VALVE INSTALLATION. PATCH AND REPAIR ALL AREAS AFFECTED AS DIRECTED/APPROVED BY ARCHITECT.
 6. UNLESS OTHERWISE INDICATED, ALL NEW WALL MOUNTED FIXTURE (LAVATORIES, URINALS, DRINKING FOUNTAINS, ETC.) SHALL BE PROVIDED WITH NEW FLOOR MOUNTED FIXTURE CARRIERS. OPEN WALLS AS REQUIRED TO INSTALL SAME AND PATCH AND REPAIR ALL AREAS AFFECTED AS DIRECTED/APPROVED BY ARCHITECT.
 7. UNLESS OTHERWISE INDICATED, CONNECT TO EXISTING PLUMBING VENT THROUGH ROOF, REUTILIZING EXISTING ROOF PENETRATION. FIELD VERIFY LOCATION AND PROVIDE NEW FLASHING, COLLAR, ETC. AS REQUIRED.

LEGEND - PLUMBING

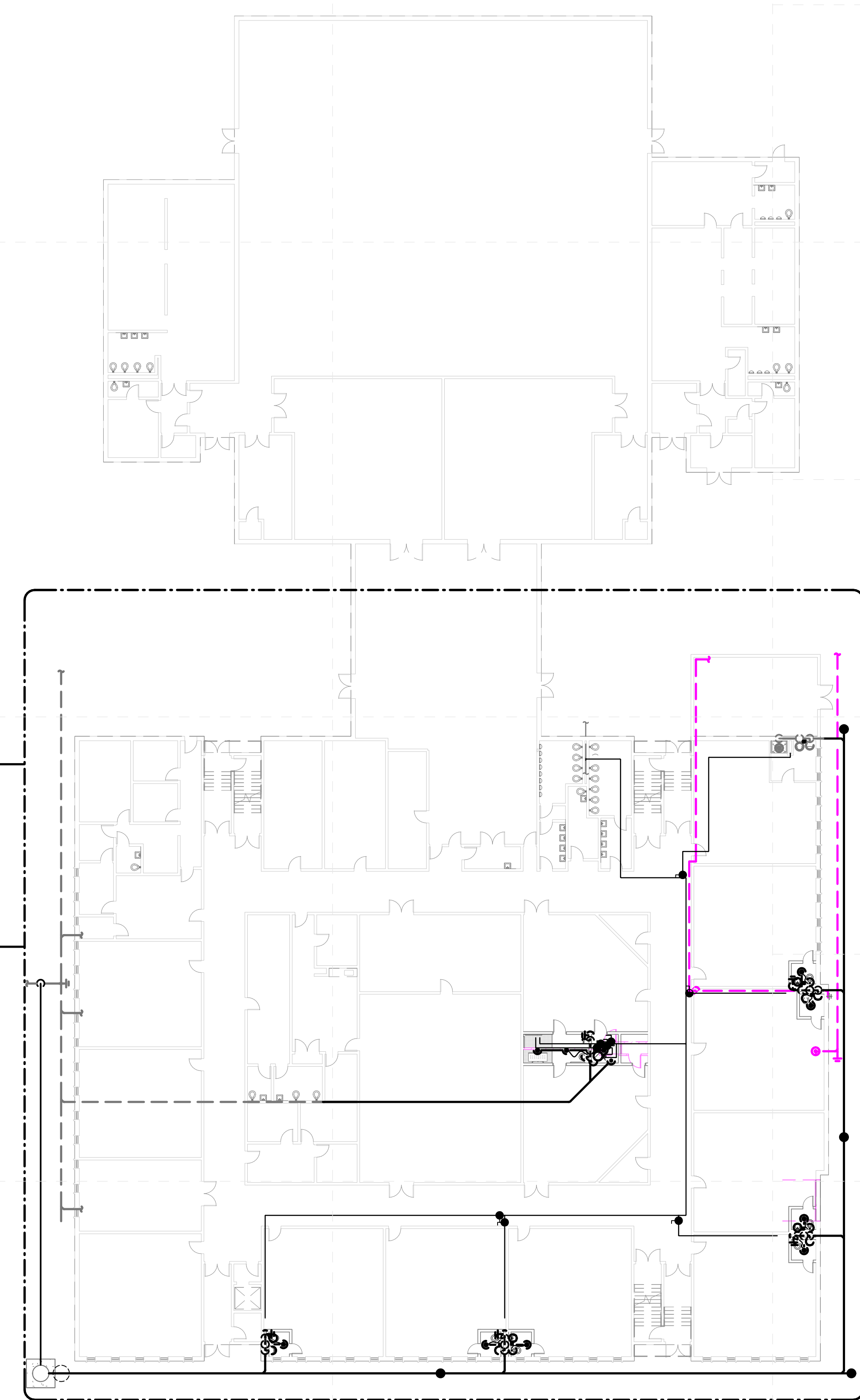
MARK	DESCRIPTION
---	EXISTING PIPING TO BE DEMOLISHED
---	EXISTING SANITARY WASTE PIPING
---	EXISTING POTABLE COLD WATER PIPING
---	NEW SANITARY VENT PIPING
---	NEW SANITARY WASTE PIPING
---	NEW PUMPED SANITARY WASTE PIPING
---	NEW POTABLE COLD WATER PIPING
---	NEW POTABLE HOT WATER PIPING (120°F)
---	FULL PORT BALL VALVE (LEAD FREE)
---	TYPICAL FINISHED GRADE CLEANOUT
○	HOSE BIBB
○	WALL CLEANOUT
○	WATER HAMMER ARRESTOR
○	POINT OF CONNECTION TO EXISTING
○	FLOOR DRAIN
○	VENT
○	ABOVE CEILING
○	BELOW SLAB
○	BELOW FLOOR
○	ABOVE FINISHED GRADE
○	BELOW FINISHED GRADE
○	IN WALL
○	DOWN
○	FINISHED FLOOR CLEANOUT
○	FINISHED GRADE CLEANOUT
○	TRAP PRIMER BELOW SLAB/FLOOR

CODE REVIEW

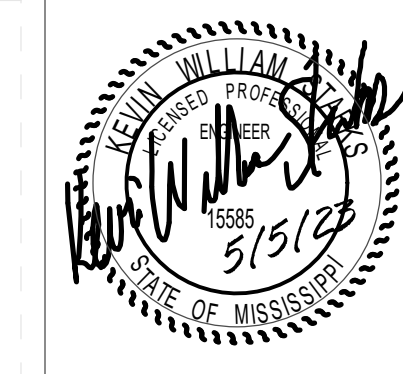
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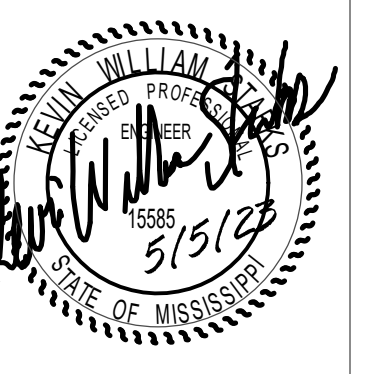
DRAWING INDEX - PLUMBING

Sheet Number	Sheet Name
P001	Level 1 Overall Plumbing Plan & Specifications
PD100	Level 1 Enlarged Plumbing Demolition Plan
P100	Level 1 Enlarged Plumbing New Work
P200	Plumbing Schedules & Details

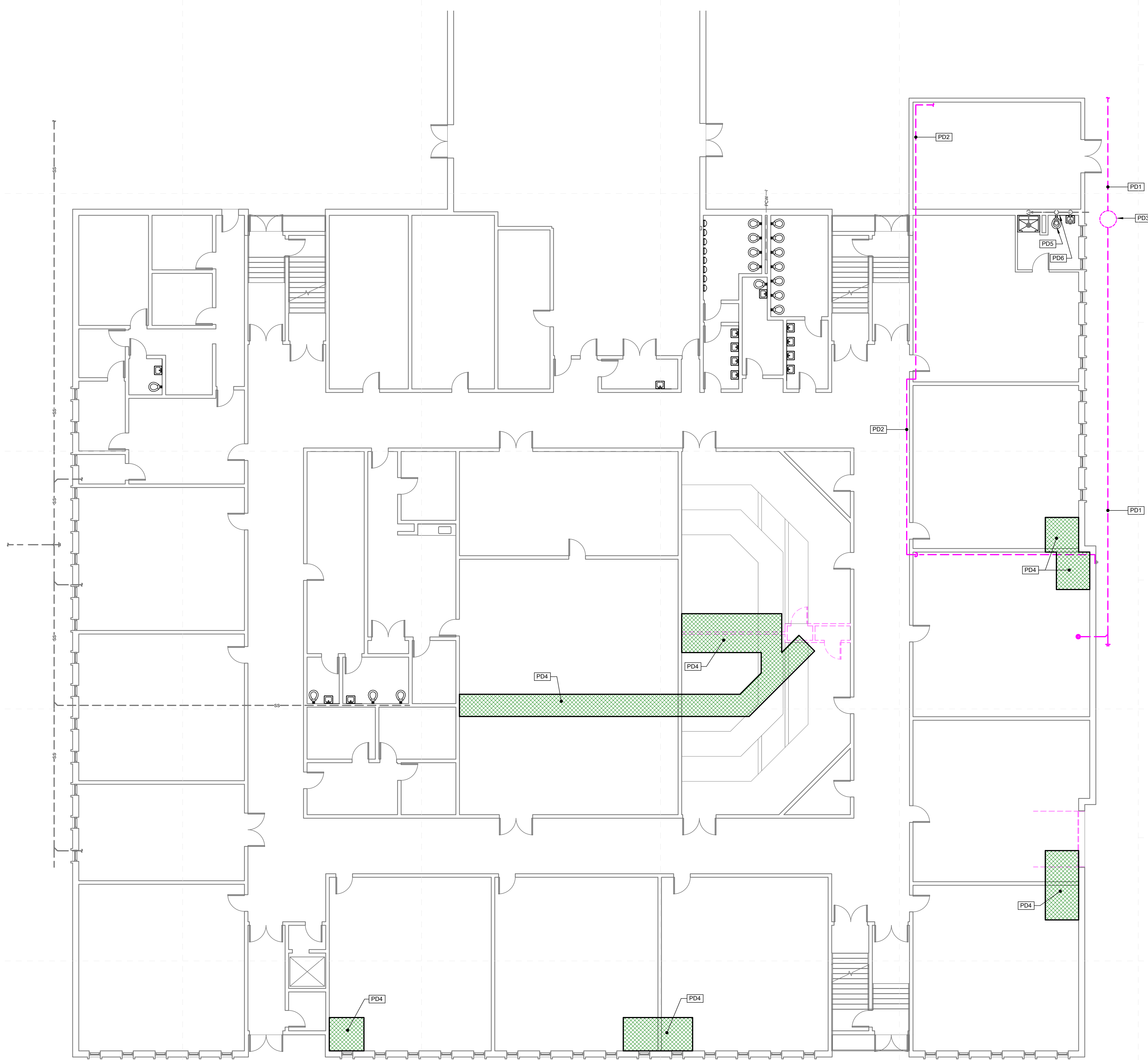


Level 1 - Overall Plumbing Plan
1 P001 1" = 20'-0"





SPECIFIC PLUMBING DEMOLITION NOTES	
PD1	DEMOLISH EXISTING SANITARY SEWER PIPING AS INDICATED.
PD2	DEMOLISH EXISTING DOMESTIC COLD WATER PIPING AS INDICATED.
PD3	DEMOLISH EXISTING LIFT STATION PUMP, BASIN, AND ASSOCIATED PIPING.
PD4	SAWCUT EXISTING FLOOR SLAB AS DENOTED BY HATCHING AS REQUIRED FOR INSTALLATION OF NEW WORK.
PD5	DEMOLISH EXISTING PLUMBING FIXTURE.
PD6	OPEN EXISTING WALL/CHASE FOR NEW PLUMBING INSTALLATIONS.



Level 1 - Enlarged Plumbing Demolition Plan
1
PD100 1/8" = 1'-0"

Carver Elementary Emergency Remodel
Carver Elementary: 900 44th Ave, Meridian, MS 39307

100%
Construction Documents

Project No	22034.04
Date	May 05, 2023
Drawn	MG
Checked	JK/KS
Revision	# Date

SPECIFIC PLUMBING NOTES	
P1	EXTEND NEW FULL SIZE WATER HEADER PIPING HORIZONTALLY IN PLUMBING CHASES WITH BRANCH PIPING TO SERVE INDIVIDUAL FIXTURES SIZED PER PLUMBING FIXTURE ROUGH-IN SCHEDULE AND INCLUDING WATER HAMMER ARRESTERS.
P2	1/2" TYPE 'K' SOFT COPPER TRAP PRIMER AND 3" WASTE BELOW SLAB FLOOR.
P3	PROVIDE ADDITIONAL FLOOR DRAIN WITHOUT TRAP AND CONNECT TO ADJACENT FLOOR DRAIN TAILPIECE (UPSTREAM OF TRAP).
P4	BORE AND SLEEVE ACROSS EXISTING WALK TO INSTALL NEW SANITARY PIPING. SLEEVE SHALL EXTEND MINIMUM 36" BEYOND EDGE OF PAVING EACH SIDE AND BE OF SIZE TO MATCH APPLICATION.
P5	TYPICAL AIR ADMITTANCE VALVE (AAV) EQUAL TO STUDOR 'MAXI-VENT'. INSTALL DEVICE AS HIGH AS PRACTICAL, IN WALL ABOVE CEILING BEHIND THE MANUFACTURER'S LOUVERED ACCESS PANEL.

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Carver Elementary Emergency Remodel

Carver Elementary: 900 44th Ave, Meridian, MS 39307

100%
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Project No 22034.04
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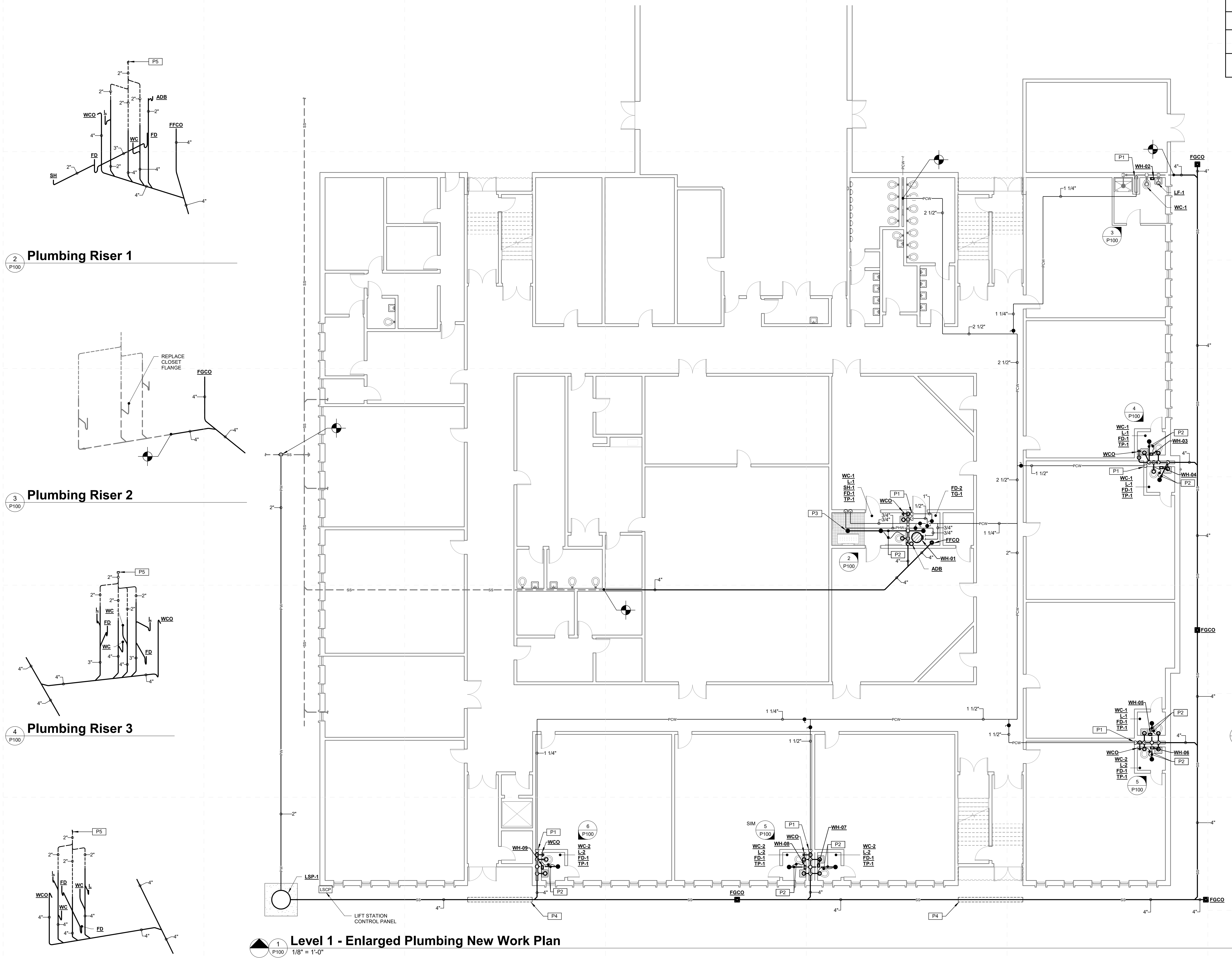
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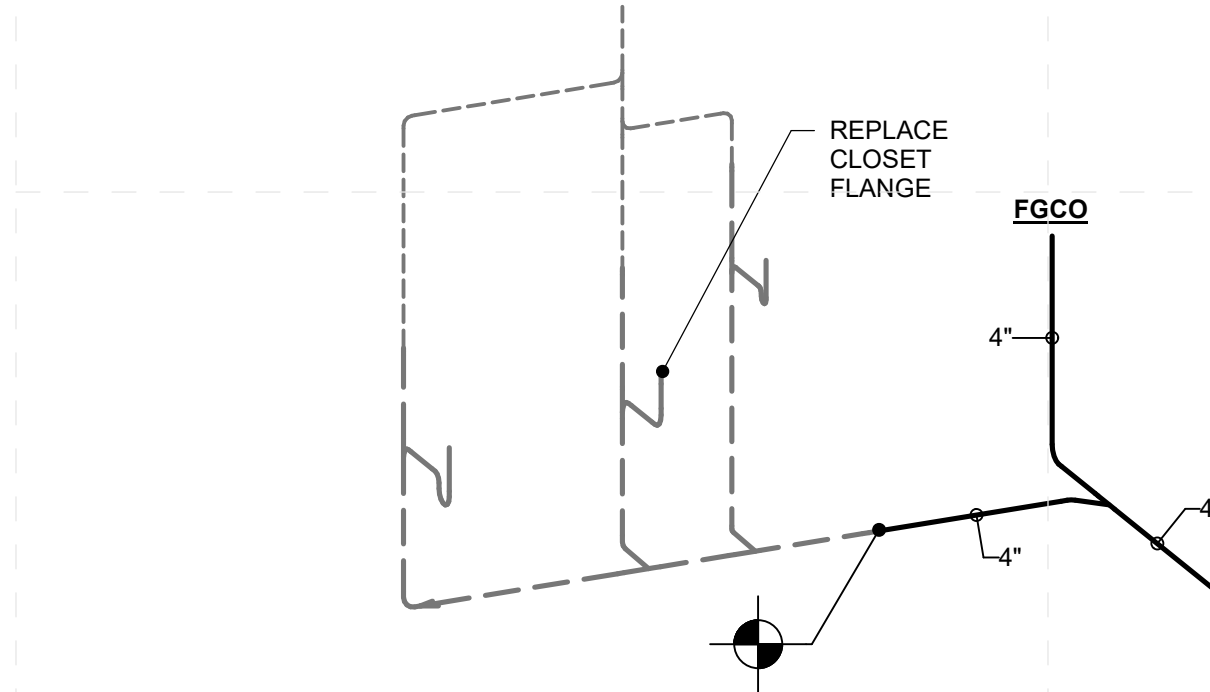
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P100

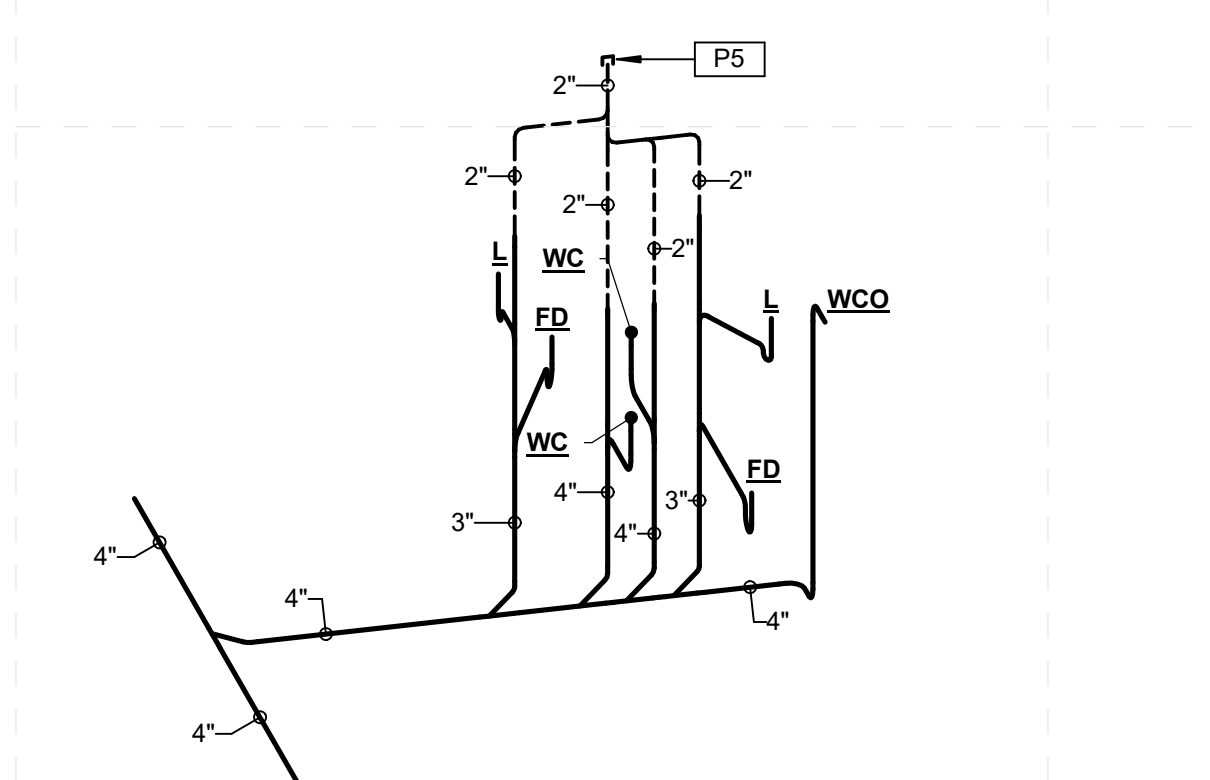
Level 1 Enlarged
Plumbing New Work



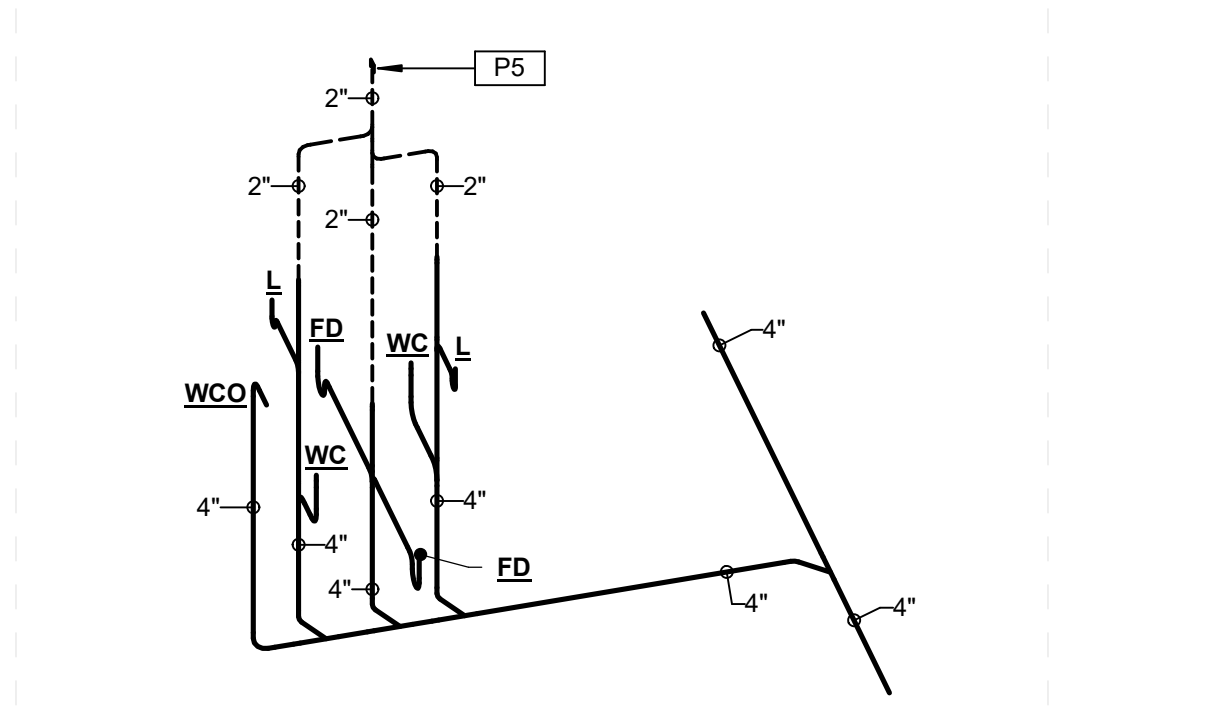
2 Plumbing Riser 1



3 Plumbing Riser 2



4 Plumbing Riser 3



5 Plumbing Riser 4

6 Plumbing Riser 5

1 Level 1 - Enlarged Plumbing New Work Plan
1/8" = 1'-0"

DOMESTIC WATER HEATER SCHEDULE

MARK	FUEL	STORAGE CAP., GAL.	RECOVERY G.P.H. AT 100 °F RISE	MAX. GPM	INPUT KW	INPUT MBH	ELECTRICAL SERVICE	BASIS OF DESIGN	FEATURES/ACCESSORIES
WH-01	ELEC	30	24	-	6.0	-	208V, 3ph	AO SMITH MODEL DEN-30	1, 2
WH-02	ELEC	-	-	-	3.0	-	120V, 1ph	EEMAX MODEL SPEX3012T	1
WH-03	ELEC	-	-	-	3.0	-	120V, 1ph	EEMAX MODEL SPEX3012T	1
WH-04	ELEC	-	-	-	3.0	-	120V, 1ph	EEMAX MODEL SPEX3012T	1
WH-05	ELEC	-	-	-	3.0	-	120V, 1ph	EEMAX MODEL SPEX3012T	1
WH-06	ELEC	-	-	-	3.0	-	120V, 1ph	EEMAX MODEL SPEX3012T	1
WH-07	ELEC	-	-	-	3.0	-	120V, 1ph	EEMAX MODEL SPEX3012T	1
WH-08	ELEC	-	-	-	3.0	-	120V, 1ph	EEMAX MODEL SPEX3012T	1
WH-09	ELEC	-	-	-	3.0	-	120V, 1ph	EEMAX MODEL SPEX3012T	1

FEATURES/ACCESSORIES:
 1. PROVIDE PIPING, VALVES AND ACCESSORIES PER DETAILS.
 2. PROVIDE HEAVY DUTY WALL MOUNTING KIT WITH TOP MOUNTED AT ± 2" BELOW CEILING.

PLUMBING FIXTURE SCHEDULE

MARK	ADA REQ'D	DESCRIPTION	ROUGH-IN REQUIREMENTS					FIXTURE MAKE AND MODEL	FAUCET MAKE AND MODEL	DESCRIPTION	FLOOR MTND. CARRIER REQ'D
			WASTE	VENT	120 °F HW	CW	TEMPERED				
WC-1	SEE ARCH	WATER CLOSET - FLOOR MOUNTED FLUSH VALVE (HARDWIRED SENSOR) - PRIMARY	4"	2"-4"	-	1"	-	KOHLER K-86084 / K-4686 (SEA)	SLOAN ROYAL MODEL 111 SFSM-1.6-HW	1.6 GPF, WITH TRUE MECHANICAL OVERRIDE FLUSH BUTTON, HARDWIRE KIT AND TRANSFORMER	NO
WC-2	SEE ARCH	WATER CLOSET - FLOOR MOUNTED FLUSH VALVE (HARDWIRED SENSOR)	4"	2"-4"	-	1"	-	KOHLER K-86054	SLOAN ROYAL MODEL 111 SFSM-1.6-HW	1.6 GPF, WITH TRUE MECHANICAL OVERRIDE FLUSH BUTTON, HARDWIRE KIT AND TRANSFORMER	NO
L-1	SEE ARCH	LAVATORY - WALL MOUNTED TYPE (HARDWIRED SENSOR)	2"	2"	1/2"	1/2"	1/2"	KOHLER K-2007	SLOAN MODELSF-2450 (HARDWIRED)	0.5 GPM VANDAL RESISTANT LAMINAR FLOW OUTLET WITH THERMOSTATIC MIXING VALVE (ASSE 1017), PROVIDE HARDWIRED WITH TRANSFORMER.	YES
L-2	SEE ARCH	LAVATORY - WALL MOUNTED TYPE (HARDWIRED SENSOR)	2"	2"	1/2"	1/2"	1/2"	KOHLER K-2007	SLOAN MODELSF-2450 (HARDWIRED)	0.5 GPM VANDAL RESISTANT LAMINAR FLOW OUTLET WITH THERMOSTATIC MIXING VALVE (ASSE 1017), PROVIDE HARDWIRED WITH TRANSFORMER.	YES
LF-1	YES	LAVATORY FAUCET (HARDWIRED SENSOR)	-	-	1/2"	1/2"	1/2"	-	SLOAN MODELSF-2450 (HARDWIRED)	0.5 GPM VANDAL RESISTANT LAMINAR FLOW OUTLET WITH THERMOSTATIC MIXING VALVE (ASSE 1017), PROVIDE HARDWIRED WITH TRANSFORMER.	-
SH-1	YES	SHOWER FITTINGS AND DRAIN	2"	2"	1/2"	1/2"	-	ZURN Z-415B	ZURN Z7000-I2 ZURN Z7101-SS-LH-HW-DV-2P-HW-MT	PRESSURE BALANCING VALVE, METAL HANDLE AND COVER, DIVERTER VALVE, 2 EACH INSTITUTIONAL SHOWER HEAD (ONE AT 48" AFF FOR ADA)	NO
TP-1	NO	TRAP PRIMER - CONNECT TO FLUSH VALVE ASSEMBLY	-	-	-	1/2"	-	ZURN Z-6000 TPO	-	-	NO
TG-1	NO	TRAP GUARD	-	-	-	-	-	PROSET	-	-	NO
FD-1	NO	FLOOR DRAIN - GENERAL DRAINAGE IN TOILET AREAS	3"	2"	-	-	-	ZURN MODEL Z415-7B	-	-	NO
FD-2	NO	FLOOR DRAIN - AREA MECHANICAL ROOM DRAINAGE	4"	2"	-	-	-	ZURN MODEL Z541	-	-	NO
FFCO	NO	FINISHED FLOOR CLEANOUT	2"-4"	-	-	-	-	ZURN MODEL Z1400	-	-	NO
FGCO	NO	FINISHED GRADE CLEANOUT (PAVING)	2"-4"	-	-	-	-	ZURN MODEL Z1406 (PAVING)	-	-	NO
FGCO	NO	FINISHED GRADE CLEANOUT (NO PAVING)	2"-4"	-	-	-	-	ZURN MODEL 1449 (NO PAVING)	-	-	NO
WCO	NO	WALL CLEANOUT	2"-4"	-	-	-	-	ZURN MODEL Z1446	-	-	NO
ADB	NO	AUXILIARY DRAIN BOX	2"	-	-	-	-	GUY GRAY MODEL FRAD12	-	-	NO

MISCELLANEOUS PLUMBING FIXTURE TRIM

STOPS AND SUPPLIES
 1. STOPS FOR LAVATORIES, SINKS, TANK TYPE WATER CLOSETS, ETC. SHALL BE CHROME PLATED BRASS ANGLE QUARTER TURN BALL VALVE COMPRESSION TYPE AS "CONVERTABLE" BY MCGUIRE
 2. SUPPLIES SHALL BE STAINLESS STEEL BRAIDED/REINFORCED TYPE.

ESCUTCHEONS
 1. PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL WATER AND DRAIN PIPING WALL, FLOOR AND CEILING PENETRATIONS. HEAVY DUTY TYPE WITH SET SCREWS SHALL BE UTILIZED IN EXPOSED APPLICATIONS UNDER WALL MOUNTED LAVATORIES AND SINKS. EXPOSED PIPING APPLICATIONS ON TANK TYPE WATER CLOSET STOPS AND ON EXPOSED PIPING TO FLUSH VALVES, ETC. LIGHT DUTY SLIP-ON TYPE MAY BE UTILIZED IN CONCEALED (WITHIN CABINET) INSTALLATIONS.

CARRIERS:
 1. PROVIDE APPROPRIATE CARRIERS FOR ALL WALL MOUNTED WATER CLOSETS, URINALS, LAVATORIES, ELECTRIC DRINKING FOUNTAINS AND SINKS AND AS INDICATED HEREIN. ALL CARRIERS SHALL BE CONCEALED FLOOR MOUNTED TYPE UNLESS OTHERWISE APPROVED BY PROFESSIONAL.

FIXTURE TRIM
 1. DRAIN AND WASTE ASSEMBLIES BELOW LAVATORIES AND SINKS SHALL BE MINIMUM 17 GAUGE CHROME PLATED BRASS AND TRAPS SHALL INCLUDE CLEANOUT PLUGS. SINK BASKETS/TRAINERS SHALL BE OF STAINLESS STEEL CONSTRUCTION.

HANDICAPPED SERVICES
 1. PROVIDE WHERE REQUIRED AND/OR INDICATED FIXTURES THAT COMPLY WITH THE LATEST VERSION OF AMERICAN WITH DISABILITIES ACT (ADA)
 2. PROVIDE NEAT PRE-PACKAGED MOLDED INSULATION PROTECTION ON AN EXPOSED DRAIN AND WATER SUPPLY PIPING BELOW SINKS AND LAVATORIES EQUAL TO TRUEBRO MODEL #105.

LIFT STATION PUMP SCHEDULE

MARK	LOCATION	SYSTEM	CIRCULATING FLUIDS						ELECTRICAL DATA			BASIS OF DESIGN			
			FLUID	GPM	PUMP HEAD FT. FLUID	TEMP. °F	SP. GR.	NPSHR (FEET)	% EFF.	TYPE	NOM. HP	SERVICE	RPM	PUMP	CONTROL PANEL
LSP-01	SEE PLANS	A	WATER	40	20	60-200	1	10	-	A	1.5	208V, 3ph	1750	WEIL MODEL 2554	WEIL MODEL 8151

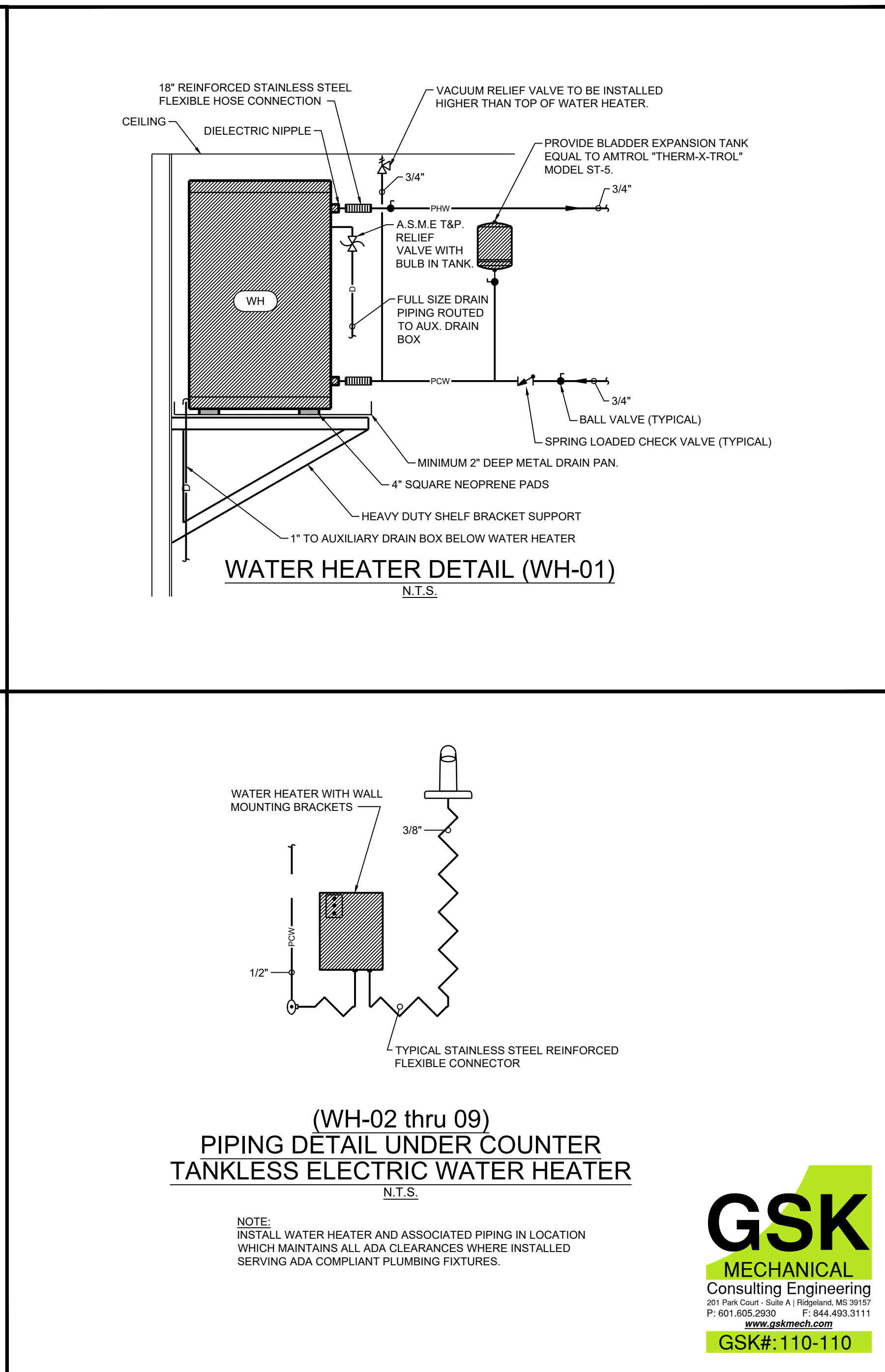
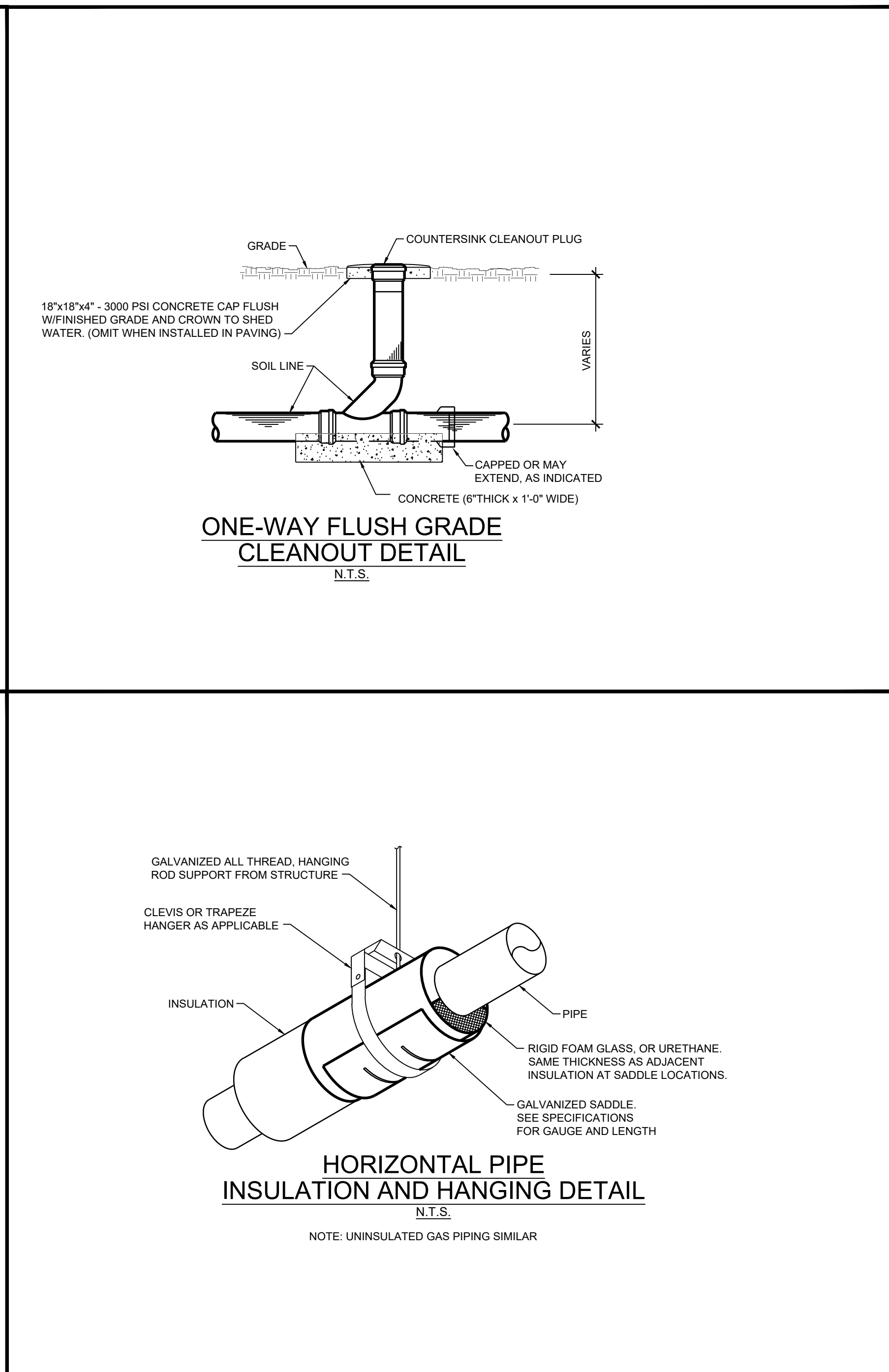
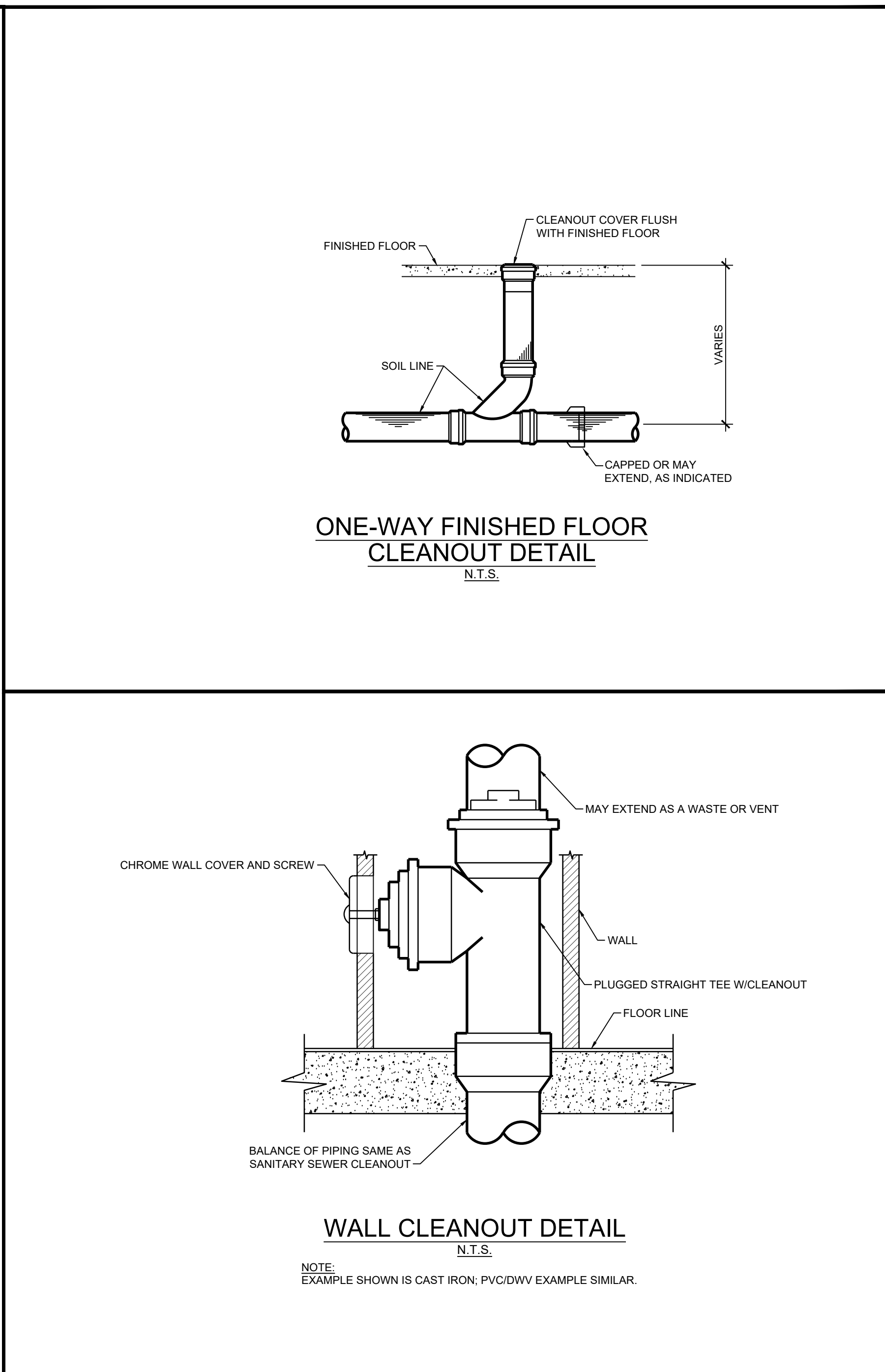
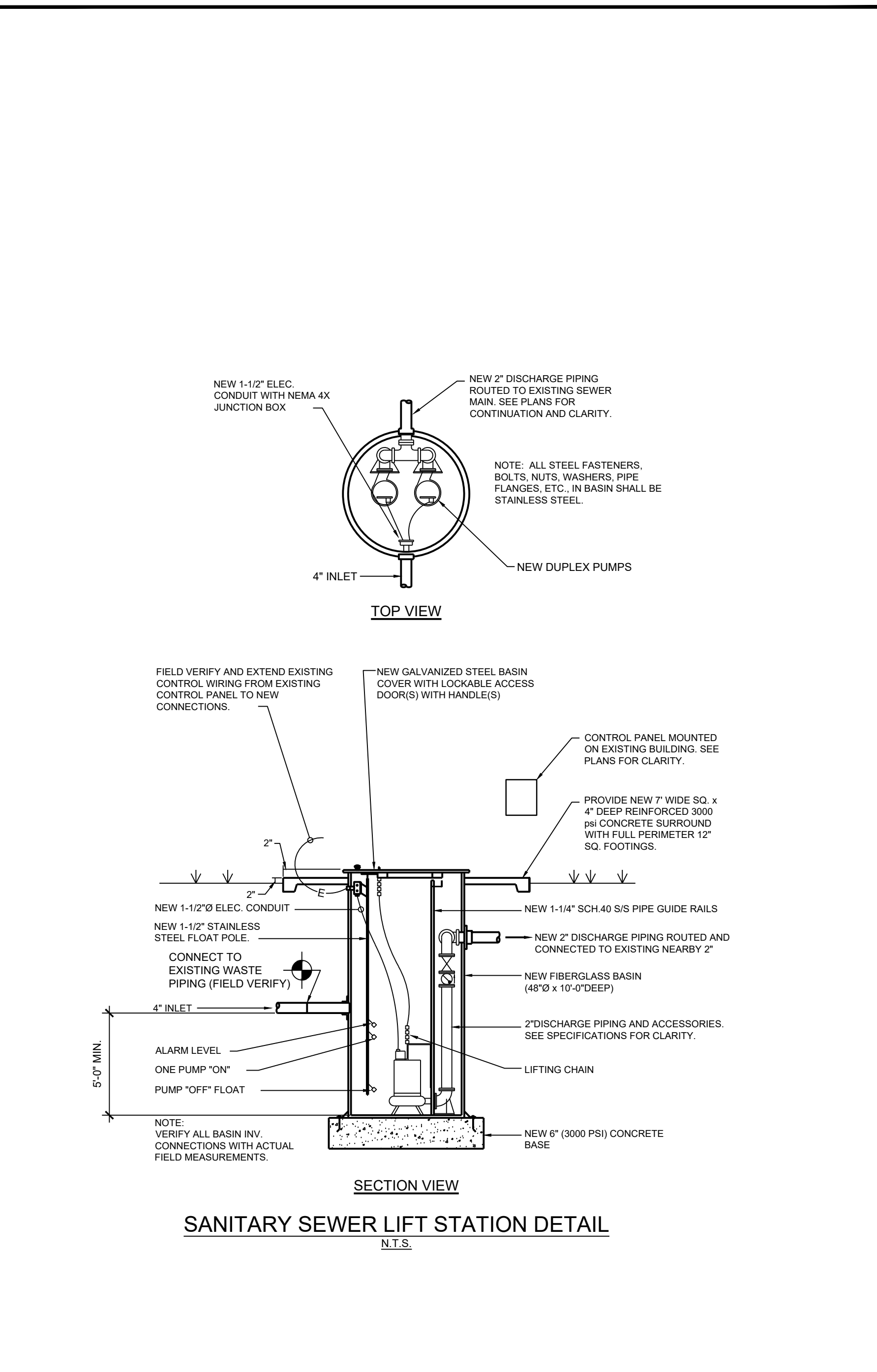
[1] SYSTEM
 A. SANITARY SEWER LIFT STATION

[2] TYPE
 A. DUPLEX SUBMERSIBLE SEWAGE PUMP WITH THE FOLLOWING ACCESSORIES:
 1. FIBERGLASS PUMP BASIN
 2. NEMA 4X WEATHERPROOF CONTROL PANEL
 3. SEE DETAIL FOR OTHER ACCESSORIES

COMPARABLE PRODUCTS:
 BELL AND GOSSETT, PACO, TACO

PLUMBING PIPING AND JOINING REQUIREMENTS

SERVICE	MATERIAL	JOINING	TESTS REQUIRED	PIPING INSULATION AND THICKNESS
DOMESTIC WATER ABOVE SLAB ON GRADE	TYPE 'L' COPPER	LEAD FREE SOLDER OR PRESS FITTINGS	PER INTERNATIONAL PLUMBING CODE	1" THICK MOLDED FIBERGLASS
EQUIPMENT AND UTILITY DRAINS	TYPE 'L' COPPER	LEAD FREE SOLDER	NONE	NONE
SANITARY WASTE AND VENT ABOVE SLAB ON GRADE	SCH. 40 PVC (SOLID CORE) WITH DWV FITTINGS	SOLVENT WELD (GLUE)	PER INTERNATIONAL PLUMBING CODE	NONE
SANITARY WASTE AND VENT PIPING BELOW SLAB ON GRADE	SCH. 40 PVC (SOLID CORE) WITH DWV FITTINGS	SOLVENT WELD (GLUE)	PER INTERNATIONAL PLUMBING CODE	NONE
SANITARY WASTE AND VENT PIPING BELOW GRADE (OUTSIDE)	SCH. 40 PVC (SOLID CORE) WITH DWV FITTINGS	SOLVENT WELD (GLUE)	PER INTERNATIONAL PLUMBING CODE	NONE
PUMPED WASTE OUTDOORS	SCH. 40 PVC PRESSURE RATED	SOLVENT WELD (GLUE)	PER INTERNATIONAL PLUMBING CODE	NONE



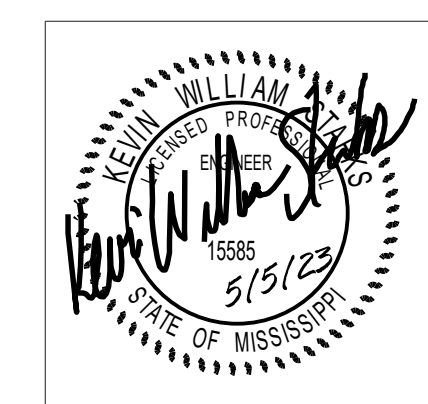
DALE BAILEY
 AN ASSOCIATION

Architects
 One Jackson Place 250
 188 East Capitol Street
 Jackson, MS 39201
 p 601.352.5411

201 Park Court Suite B
 Ridgeland, MS 39157
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161 Lameuse St. Suite 201
 Biloxi, MS 39530
 p 228.374.1409

dalebailyplans.com



Carver Elementary Emergency Remodel
 Carver Elementary: 900 44th Ave, Meridian, MS 39307

100% Construction Documents

Project No 22034.04
 Date May 05, 2023
 Drawn MG
 Checked JK/KS
 Revision # Date

P200
 Plumbing Schedules & Details

GSK
 MECHANICAL
 Consulting Engineering
 201 Park Court - Suite A1 | Ridgeland, MS 39157
 P: 601.605.2000 F: 601.492.3111
 www.gskmesh.com
 GSK#: 110-110

SPECIFICATIONS - HVAC

SUBMITTALS:

REFER TO ARCHITECTURAL SPECIFICATIONS FOR SUBMITTAL PROCEDURES. PROVIDE SUBMITTALS FOR THE FOLLOWING:

- EXHAUST FANS, ACCESSORIES, AND CONTROLS

CLOSE-OUT DOCUMENTS:

REFER TO ARCHITECTURAL SPECIFICATIONS FOR CLOSE-OUT PROCEDURES. PROVIDE CLOSE-OUT DOCUMENTATION FOR THE FOLLOWING:

- TAB REPORT
- AS-BUILT DRAWINGS
- O&M MANUALS OF HVAC EQUIPMENT, CONTROLS, ETC. NEW AND AS-BUILT DRAWINGS.

OWNER OPERATING & MAINTENANCE MANUALS AND INSTRUCTIONS:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SETUP AND TRAIN THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT PROVIDED AND/OR INSTALLED WITH THIS PROJECT. THE SAFE OPERATION OF ALL PLUMBING AND SYSTEMS SHALL BE ADEQUATELY CONVEYED TO PERTINENT OWNER PERSONNEL, ALONG WITH INSTRUCTIONS ON WHAT IS OWNER'S RESPONSIBILITY, AND WHOM TO CONTACT FOR STANDARD ONE (1) YEAR WARRANTY, AND AFTERWARDS FOR EXTENDED WARRANTIES. SAME INFORMATION SHALL BE INCLUDED IN O&M MANUALS.
- SUBMIT TWO(2) COMPLETE SETS OF HARDBOUND BROCHURES, INDEXED, AND LABELED FOR EACH PIECE OF EQUIPMENT. THE MANUALS SHALL BE TRANSMITTED TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- INCLUDE IN THESE BROCHURES WRITTEN SUBMITTAL DATA, MANUFACTURER'S OPERATING AND MAINTENANCE PROCEDURES AND RECOMMENDATIONS, SPARE PARTS LISTS AND SUPPLIERS AND ANY INTERLOCKING CONTROL OR WIRING DIAGRAMS FOR ALL EQUIPMENT. THE INFORMATION LISTED HEREIN IS TO BE BOUND IN THE FOLLOWING ORDER:
COVER TO LIST PROJECT NAME, LOCATION, AND DATE COMPLETED.
1. FIRST SHEET TO LIST ARCHITECT, ENGINEER, CONTRACTOR AND SUBCONTRACTORS WITH ADDRESSES FOR EACH.
2. SECOND SHEET TO LIST TYPE OF EQUIPMENT WITH SEQUENTIAL NUMBER, THE MANUFACTURER, MAKE, MODEL, AND SERIAL NUMBER OF THE ACTUAL EQUIPMENT MANUFACTURE DATA RATED HORSEPOWER, FULL LOAD RATED AMPS, VOLTAGE AND PHASE. INCLUDE PERTINENT CONTACT INFORMATION ON STANDARD ONE YEAR WARRANTY AND EXTENDED WARRANTY WORK.
3. NEXT, ACTUAL COPY OF APPROVED SUBMITTAL DATA INCLUDING ALL MANUFACTURER'S PUBLISHED INFORMATION ON CAPACITIES, CAPACITY CURVES OR TABLES, ACCESSORY AND CONTROL ITEM LISTS, AND OTHER PERTINENT INFORMATION AS REQUESTED BY ENGINEER. CROSS REFERENCE ALL EQUIPMENT TO CONTRACT DOCUMENTS.

AS-BUILT DRAWINGS (PROJECT RECORD DOCUMENTS):

- MAINTAIN AT JOB SITE A SET OF CONTRACT RECORD DOCUMENTS KEPT CURRENT BY INDICATING THEREON ALL CHANGES, SUBSTITUTIONS, ETC., BETWEEN WORK AS SPECIFIED AND AS INSTALLED, IN RED INK.
- AT THE COMPLETION OF THE PROJECT, FURNISH THE OWNER TWO(2) SETS OF BLUELINES SHOWING INSTALLED LOCATION, SIZE, ETC., OF ALL WORK AND MATERIAL AS TAKEN FROM RECORD DOCUMENTS. ALL AS-BUILT (ON RECORD) DRAWINGS SHALL BE LABELED "AS-BUILT DRAWINGS", DATED AND CERTIFIED AS ACCURATE BY MECHANICAL CONTRACTOR WITH HIS SIGNATURE, ON FRONT PAGE OF ALL DRAWING BLUELINE SETS AND SPECIFICATIONS.

MECHANICAL IDENTIFICATION:

- HVAC EQUIPMENT SENSOR/CONTROLLERS SHALL BE NEWLY IDENTIFIED WITH NEAT PHENOLIC LABELS, COLOR(S) BY ARCHITECT. IDENTIFY SYSTEM SERVED.

HVAC EQUIPMENT AND CONTROLS:

- HVAC EQUIPMENT AND CONTROLS SHALL BE CONTRACTOR PROVIDED AND INSTALLED.

- ALL CONTROL WIRING SHALL BE RUN WITHIN APPROVED RACEWAY AS FOLLOWS: METALLIC RIGID RACEWAY REQUIRED INDOORS IN CONCEALED SPACES WITHIN WALLS AND ABOVE HARD CEILINGS; LIQUIDTITE WEATHERPROOF FLEXIBLE CONNECT TO EQUIPMENT REQUIRED OUTDOORS. EXISTING CONTROL WIRING MAY BE UTILIZED IF FOUND IN GOOD CONDITION, OTHERWISE, NEW CONTROL WIRING SHALL BE PLENUM RATED. SHEATHING REQUIRED ON ALL CONTROL WIRING RUN OUTSIDE RACEWAY. PROVIDE TWO (2) SPARE CONDUCTORS ON ALL INSTALLATIONS. WIRING MAY BE ROUTED OUTSIDE RACEWAY ONLY WHERE CONCEALED ABOVE AN ACCESSIBLE CEILING.

TESTING, ADJUSTING AND BALANCING (TAB)

GENERAL:

- ALL TAB SHALL BE PERFORMED BY A QUALIFIED TAB VENDOR WHO IS A CERTIFIED MEMBER OF AABC, NEBB, OR AS APPROVED BY ENGINEER-OF-RECORD.
- COORDINATE TAB PROCEDURES WITH ANY PHASED CONSTRUCTION REQUIREMENTS FOR THE PROJECT SO THAT USABLE INCREMENTS OF FINISHED WORK MAY BE ACCEPTED FOR BENEFICIAL OCCUPANCY.
- CONDUCT FINAL TAB AFTER SYSTEM MODIFICATIONS HAVE BEEN COMPLETED AND SYSTEM IS IN FULL WORKING ORDER. PUT ALL HVAC SYSTEMS INTO FULL OPERATION AND CONTINUE OPERATION OF THE SYSTEMS DURING EACH WORKING DAY OF TAB.

AIR BALANCE:

- BALANCE SYSTEMS TO DESIGN RATINGS. ADJUST FAN SPEEDS TO AND/OR DUCT BRANCH DAMPERS, PROVIDE DESIGN FLOWS, INCLUDING SYSTEM DIVERSITIES, AT ACTUAL SYSTEM PRESSURES. BELT DRIVES, INCLUDING SHEAVES, BELTS, ETC. SHALL BE ADJUSTED AND/OR REPLACED AS REQUIRED TO SAFELY OBTAIN SPECIFIED PERFORMANCE. SUPPLY AIR FOR HEATING AND COOLING FUNCTIONS SHALL BE WITHIN ±5% OF SPECIFIED AIRFLOW.

TAB AND REPORT DATA REQUIRED:

- PROFESSIONAL APPROVED INDEPENDENT TAB AGENCY SHALL FURNISH ALL LABOR AND MATERIALS TO BALANCE THE FOLLOWING NEW AND/OR MODIFIED EQUIPMENT AND SYSTEMS. THE FOLLOWING MINIMUM INFORMATION SHALL BE PROVIDED:

FANS:

- CFM -
- VOLTAGE -
- F.L.A.
- EXTERNAL STATIC PRESSURE -

- BALANCE ALL E.A. AIR DISTRIBUTION DEVICES TO WITHIN 10% OF SPECIFIED C.F.M., YET MAIN AREA PRESSURIZATION AND DIFFERENTIALS, AND PROPORTION TO ORIGINAL CFM, IN ALL AREAS.

- MARK ALL FLOW C.F.M., ETC. ON AN 1/8" PER FOOT SCALE SET OF WORKING DRAWINGS AND SUBMIT TO PROFESSIONAL WITH TAB REPORT PRIOR TO COMPLETION OF WORK.

- SUBMIT THE TEST AND BALANCE REPORT AS INDICATED ABOVE, ALONG WITH THE WORKING DRAWING TO PROFESSIONAL FOR APPROVAL PRIOR TO COMPLETION AND SUBSTANTIAL COMPLETION INSPECTION TO JOB.

- VERIFY THAT WATER HEATER TEMPERATURE SETPOINT IS ±145°F.

- VERIFY THAT TEMPERATURES AT LAVATORY AND SERVICE SINK IS NO GREATER THAN ±115°F. ADJUST MIXING VALVE AS REQUIRED TO ACHIEVE SAME.

- CERTIFICATION. TEST FUNCTION OF OPERATION OF ALL HVAC AND DOMESTIC WATER CONTROLS AND SYSTEMS. CHECK ALL SAFETY AND OPERATING CONTROLS FOR PROPER OPERATION AND SEQUENCE AND REPORT ANY DEFICIENCIES. TAB AGENCY SHALL PROVIDE THE FOLLOWING WRITTEN CERTIFICATION WITHIN THE FINAL TAB REPORT:

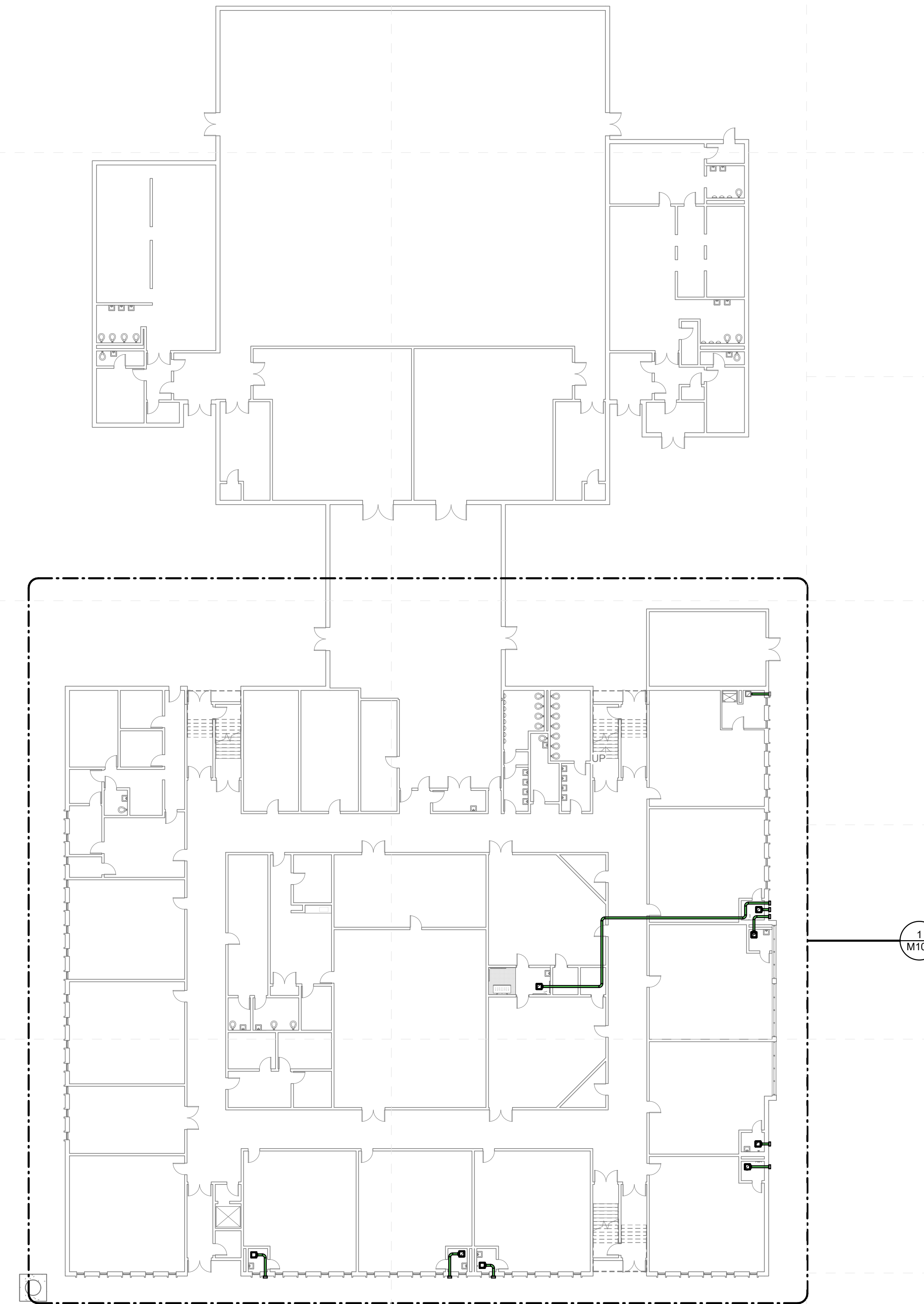
"THE TESTING, ADJUSTING AND BALANCING (TAB) AGENCY CERTIFIES THAT THE HVAC AIR AND PLUMBING WATER SYSTEMS AND CONTROLS HAVE HAD A FULL RANGE OF TESTS AND CHECKS CARRIED OUT BY THE TAB AGENCY, TO DETERMINE IF ALL COMPONENTS, SUB-SYSTEMS, SYSTEMS AND INTERFACES BETWEEN SYSTEMS OPERATE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS INCLUDES ALL MODES AND SEQUENCES OF CONTROL, OPERATION, INTERLOCKS AND CONDITIONAL AND SPECIFIED CONTROL RESPONSES TO ABNORMAL, SAFETY AND EMERGENCY CONDITIONS."

GENERAL HVAC NOTES:

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT THE SPECIFIED HVAC SYSTEM BE PROVIDED COMPLETE WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS AND COMPLETELY COORDINATED WITH ALL OTHER CRAFTS AND DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE IN STRICT CONFORMANCE. ANY ADDITIONAL MATERIALS AND/OR LABOR REQUIRED TO CONFORM WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS, SHALL BE PROVIDED COMPLETE AND WITHOUT ADDITIONAL COST TO THE CONTRACT.
- THE LOCATION OF ALL AIR DISTRIBUTION DEVICES TO BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE LOCATION OF DUCTWORK IN ALL AREAS TO MATCH CEILING GRID/LIGHT FIXTURES WHILE MAXIMIZING CEILING HEIGHT SCHEDULED ON ARCHITECTURAL PLANS.
- WALL CAPS TO BE OF ALUMINUM CONSTRUCTION AND HAVE FACTORY COLORED FINISH. THE COLOR TO BE SELECTED BY THE ARCHITECT.
- IT IS ESSENTIAL THAT ALL EXTERIOR WALL DEVICES (FANS, CAPS, BRICK VENTS, ETC.) BE INSTALLED SYMMETRICALLY AND PER ARCHITECT'S PLANS. VERIFY INSTALLATION REQUIREMENTS WITH ARCHITECT IN ALL CASES.
- DUCTWORK AND OTHER MECHANICAL OPENINGS THROUGH MASONRY WALLS SHALL BE REINFORCED/SUPPORTED AS DETAILED ON STRUCTURAL DRAWINGS. COORDINATE THE LOCATIONS AND SIZES OF THESE PENETRATIONS MAKING ALLOWANCES FOR INSULATION, FIRE DAMPERS, PIPING SLEEVES, ETC.
- PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- VERIFY AVAILABLE SPACE ABOVE CEILINGS AND STRUCTURAL RESTRICTIONS PRIOR TO CONSTRUCTING DUCTWORK OR INSTALLING CONCEALED EQUIPMENT. DUCTWORK SIZE MAY BE ALTERED TO CONFORM TO THESE REQUIREMENTS PROVIDING SIMILAR AIR DELIVERY CHARACTERISTICS AS DEFINED AND APPROVED BY PROFESSIONAL. ALL SUPPLY AND RETURN AIR DUCTS THAT ARE SHOWN TO BE ROUTED CONCEALED ABOVE CEILINGS SHALL BE ROUTED TO AVOID THE BUILDING STRUCTURE AND COORDINATED WITH THE LIGHT FIXTURES, CONDUIT PIPING, ETC. VERIFY AVAILABLE SPACE AND COORDINATE THE SIZE AND ROUTING OF ALL DUCTWORK. IT IS INTENDED THAT DUCTWORK HAVE THE "RIGHT-OF-WAY" ABOVE MOST OTHER CRAFTS AND INSTALLATIONS.
- SEE NOTES, SCHEDULES AND INSTALLATION DETAILS ON DRAWINGS FOR SPECIFICATIONS GOVERNING DUCTWORK SEALANT, DUCTWORK INSTALLATION, SUPPORTS, TAPS, FITTINGS, THE RESTRICTED USE OF FLEXIBLE DUCTWORK AND DUCTWORK LEAK/PRESSURE TESTING.
- TEST AND BALANCE ALL NEW AIR DISTRIBUTION SYSTEM (AND DEVICES) TO AIR QUANTITIES SHOWN ADJACENT TO EACH DEVICE, WITHIN SPECIFIED TOLERANCES. TESTING SHALL BE PERFORMED BY AN AABC OR NEBB ACCREDITED COMPANY.
- DUCT SIZES INDICATED ARE ACTUAL INSIDE NET DIMENSIONS.
- PRIOR TO SUBMITTING A BID, VISIT THE SITE OF THE PROPOSED CONSTRUCTION & BECOME THOROUGHLY ACQUAINTED WITH EXISTING CONDITIONS TO BE ENCOUNTERED ETC. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONDITIONS WHICH WERE NOT KNOWN OR APPRECIATED WHEN SUBMITTING A BID IF THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED.
- COORDINATE HVAC EQUIPMENT AND DUCTWORK INSTALLATIONS AND CONNECTIONS IN MECHANICAL SPACES TO PROVIDE SUITABLE, NEAT INSTALLATION THAT MAXIMIZES HEADROOM AND ACCESS TO EQUIPMENT, CONNECTIONS, ETC.
- ROUTING OF ALL DUCTWORK, CONTROL CONDUIT, ETC. TO BE COORDINATED WITH LIGHTING FIXTURE LAYOUT IN EXPOSED STRUCTURE AREAS.
- ALL DUCTWORK, INSULATION, AND HANGERS EXPOSED THROUGHOUT FACILITY TO BE PRIMED AND PAINTED.

LEGEND - HVAC

MARK	DESCRIPTION
	TYPICAL RECTANGULAR TO ROUND DUCT TRANSITION
	TYPICAL DUCTWORK INCREASER/REDUCER
	TYPICAL ROUND DUCT BELLMOUTH TAKEOFF ADAPTER WITH VOLUME DAMPER
	TYPICAL ROUND DUCT BELLMOUTH TAKEOFF ADAPTER
	TYPICAL RECTANGULAR TO RECTANGULAR TAKEOFF ADAPTER WITH VOLUME DAMPER AND EXTRACTOR
	TYPICAL ADJUSTABLE LOCKING QUADRANT VOLUME DAMPER
	MOTORIZED DAMPER
	WHEN PRINTED IN COLOR, SUPPLY DUCTWORK INDICATED BY BLUE COLOR. RETURN/TRANSFER DUCTWORK INDICATED BY RED COLOR AND EXHAUST DUCTWORK INDICATED BY GREEN COLOR. WHEN PRINTED IN GRAYSCALE, ALL DUCTWORK APPEARS THE SAME AND INDICATION OF DUCTWORK TYPE IS DETERMINED BY EQUIPMENT/GRILLES SERVED (SEE OTHER LEGENDS FOR MORE INFORMATION).
	RECTANGULAR DUCT WITH SIZE LISTED. THE "Y" DENOTES RECTANGULAR DUCT. (THE FIRST NUMBER INDICATES DUCT WIDTH PARALLEL TO VIEW WHILE THE SECOND NUMBER INDICATES DEPTH PERPENDICULAR TO VIEW). SEE PLANS AND SPECIFICATIONS FOR DUCT CONSTRUCTION REQUIREMENTS.
	ROUND DUCT WITH SIZE LISTED. THE "Ø" DENOTES ROUND DUCT. SEE PLANS AND SPECIFICATIONS FOR DUCT CONSTRUCTION REQUIREMENTS.
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR

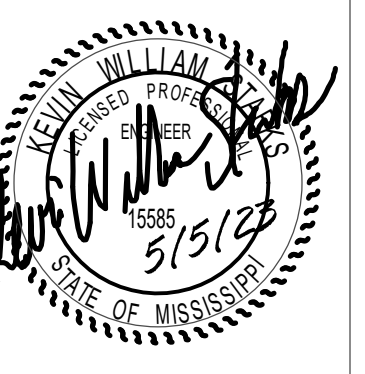


Level 1 - Overall HVAC Plan
1" = 20'-0"

CODE REVIEW	
DESIGN CODE	2018 INTERNATIONAL CODE COUNCIL (ICC)

DRAWING INDEX - HVAC	
Sheet Number	Sheet Name
M001	Level 1 Overall HVAC Plan & Specifications
M100	Level 1 Enlarged HVAC Plan
M200	HVAC Schedules & Details



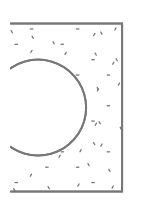
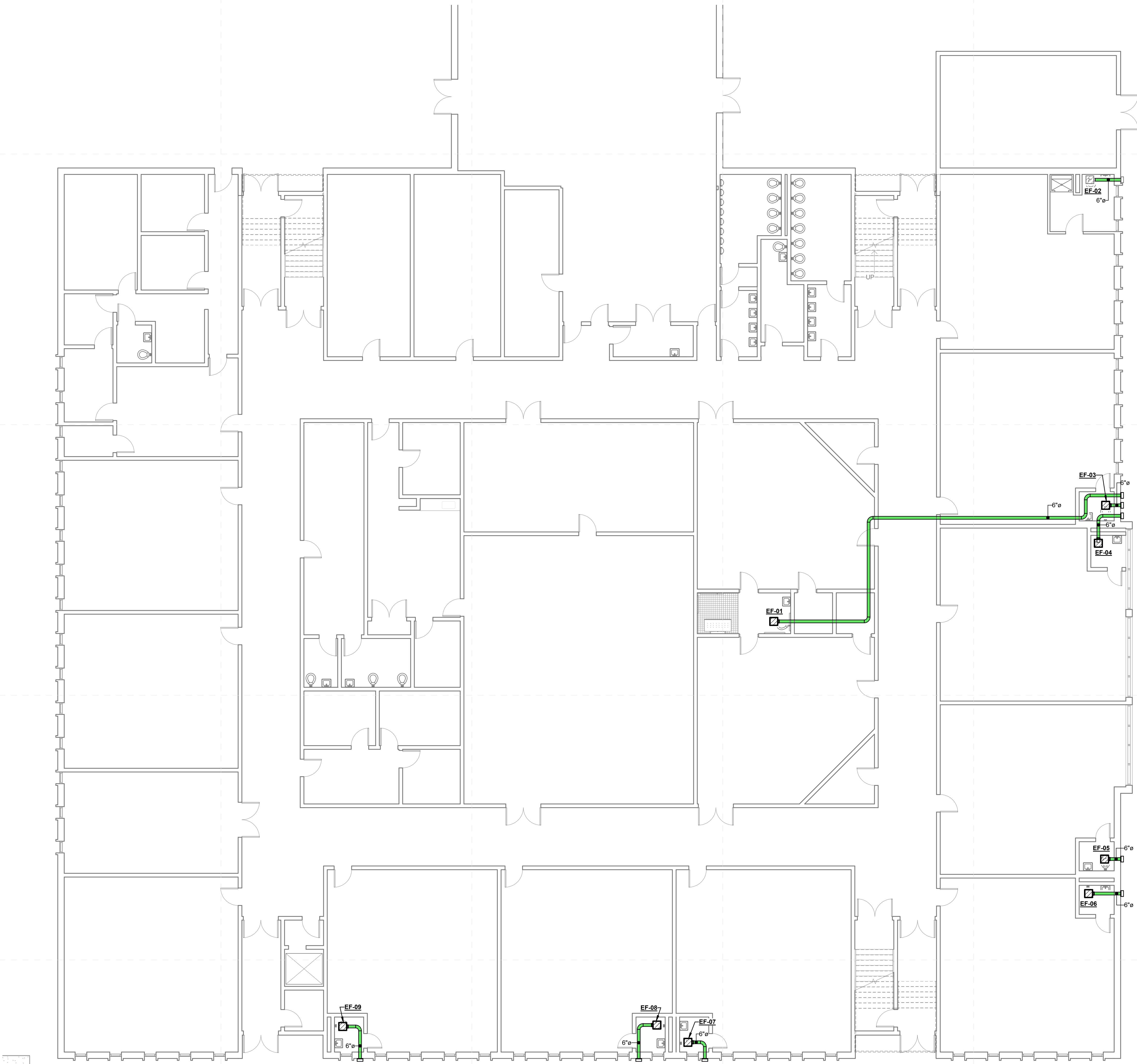


Carver Elementary Emergency Remodel

Carver Elementary: 900 44th Ave, Meridian, MS 39307

100%
Construction
Documents

Project No	22034.04
Date	May 05, 2023
Drawn	MG
Checked	JK/KS
Revision	# Date



Level 1 - Enlarged HVAC Plan
M100 1/8" = 1'-0"

FAN SCHEDULE

MARK	TYPE [1]	CONTROL SEQ. [2]	OPERATING CFM	S.P. in W.G.	R.P.M.	MAX. SONES	MOTOR DATA			ELEC. SERVICE	DRIVE	BASIS OF DESIGN	FEATURES/ACCESSORIES
							H.P.	B.H.P.	WATTS				
EF-01	A	A	150	0.375	1,050	3.5	-	-	128	120V, 1ph	DIRECT	GREENHECK MODEL SP-B150	1, 2, 3, 4, 5, 6
EF-02	A	A	75	0.375	950	2.5	-	-	80	120V, 1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-03	A	A	75	0.375	950	2.5	-	-	80	120V, 1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-04	A	A	75	0.375	950	2.5	-	-	80	120V, 1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-05	A	A	75	0.375	950	2.5	-	-	80	120V, 1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-06	A	A	75	0.375	950	2.5	-	-	80	120V, 1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-07	A	A	75	0.375	950	2.5	-	-	80	120V, 1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-08	A	A	75	0.375	950	2.5	-	-	80	120V, 1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-09	A	A	75	0.375	950	2.5	-	-	80	120V, 1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6

[1] TYPE - SEE DETAILS FOR MORE INFORMATION:
 A. CEILING CABINET TYPE

[2] CONTROL SEQUENCE:
 A. EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHT SWITCH IN SAME ROOM AS FAN.

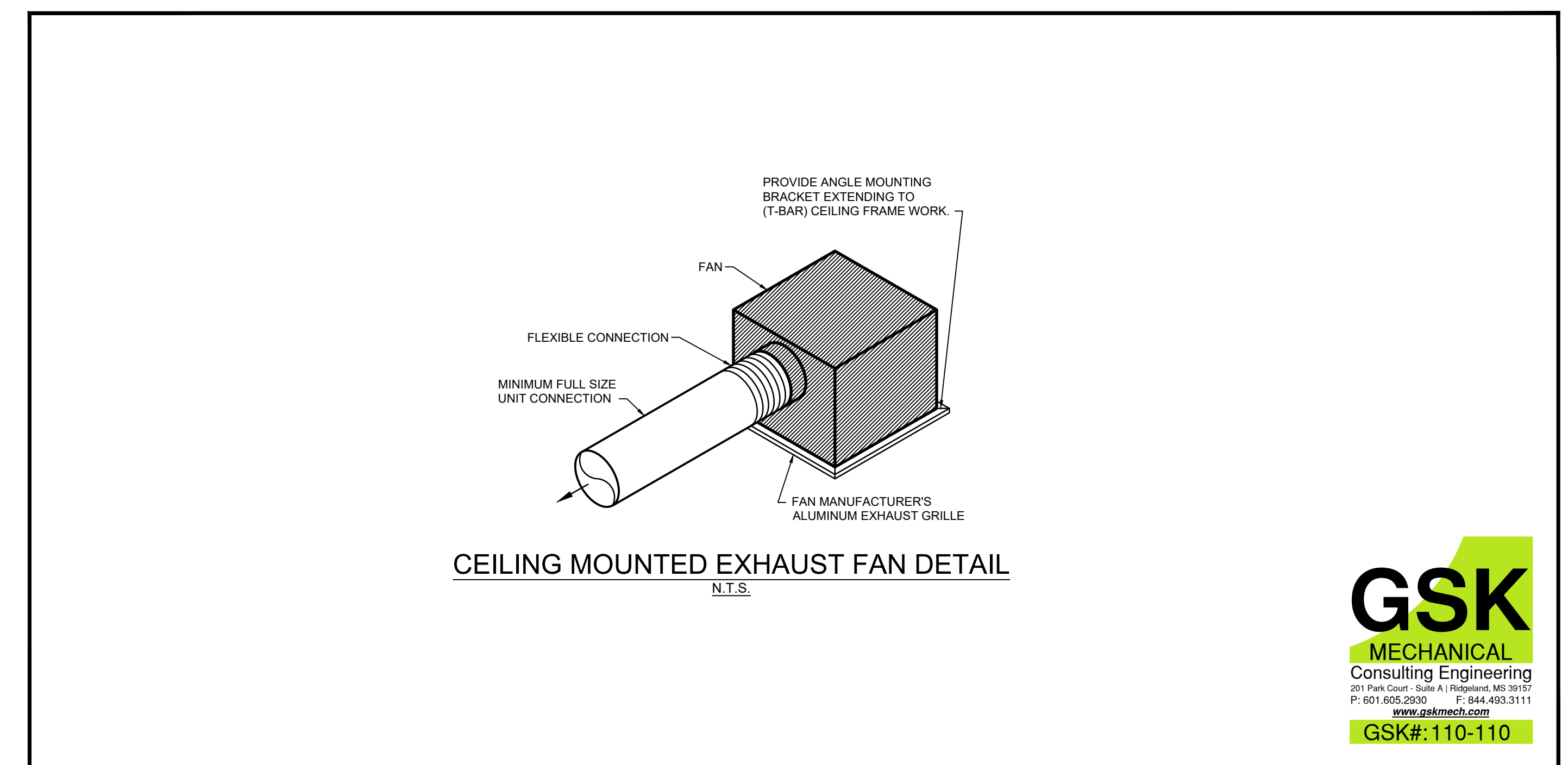
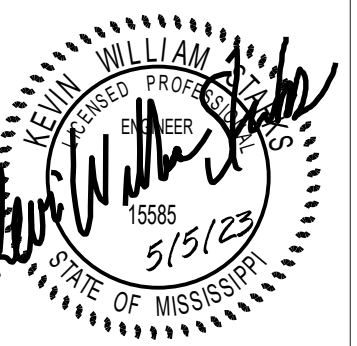
[3] FEATURES/ACCESSORIES:
 PROVIDE THE FOLLOWING MANUFACTURER'S ACCESSORIES:
 1. UL AND AMCA RATING
 2. FACTORY MOUNTED & WIRED DISCONNECT
 3. BACKDRAFT DAMPER
 4. FACTORY MOUNTED & WIRED SOLID STATE SPEED CONTROLLER
 5. ALUMINUM GRILLE
 6. MANUFACTURER'S SIDEWALL MOUNTED DISCHARGE CAP

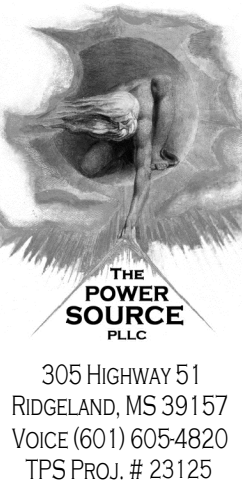
COMPARABLE PRODUCTS:
 GREENHECK, COOK, PENN-BARRY

DUCTWORK CONSTRUCTION AND INSULATION SCHEDULE

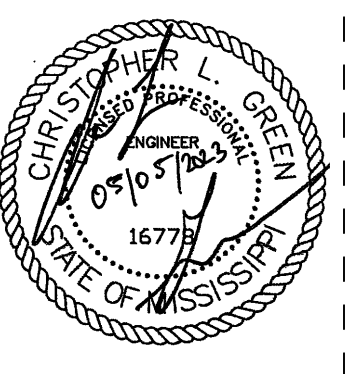
DUCTWORK FUNCTION	DUCTWORK TYPE	PRESSURE CLASS (IN. W.G.)	INSULATION MATERIAL	THICKNESS - DENSITY		VAPOR BARRIER REQUIRED
				DUCTWRAP	LINER	
LOW PRESSURE EXHAUST AIR	ROUND OR OVAL	2 (NEG.)	-	-	-	-

NOTES:
 A. ELBOWS SHALL BE EITHER MITERED WITH TURNING VANES OR RADIUS TYPE (1-1/2R - LONG RADIUS) AS INDICATED ON THE DRAWINGS.
 B. ALL DUCTWORK JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED AIRTIGHT.
 1. SEALANT: ELASTOMERIC COMPOUND, GUN OR BRUSH GRADE, MAXIMUM 25 FLAME SPREAD AND 50 SMOKE DEVELOPED (DRY STATE) COMPOUNDED SPECIFICALLY FOR SEALING DUCTWORK. USE PRODUCTS AS RECOMMENDED BY THE MANUFACTURER FOR LOW, MEDIUM OR HIGH-PRESSURE METAL DUCT SYSTEMS.
 2. TAPE/GASKETS IN FLANGED JOINTS SUCH AS TDC OR TDF: SOFT BUTYL RUBBER/ELASTOMERIC COMPOSITION EQUAL TO STICKY TAPE MANUFACTURED BY DUCTMATE.





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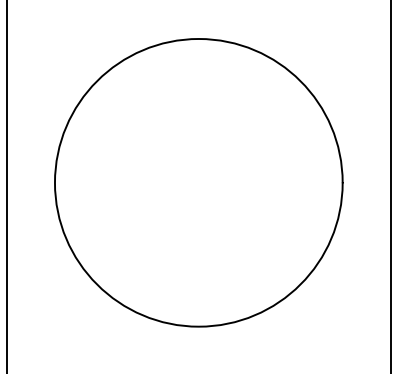


LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	PART NUMBER	LAMPS	MOUNTING	REMARKS
A	LITHONIA	CPX-2X2-AL07-BOCRI-SW7-SWL MVOLT	LED, 33W 4,557 LUMENS	RECESSED	
AE	LITHONIA	CPX-2X2-AL07-BOCRI-SW7-SWL MVOLT-E10WLCP	LED, 33W 4,557 LUMENS	RECESSED	WITH EMERGENCY BATTERY PACK.
B	LITHONIA	CLX-L48-4000LM-SEF-FDL MVOLT-UZ10-40K-BOCRI-WH	LED, 35W 4,100 LUMENS	SURFACE	

ELECTRICAL LEGEND

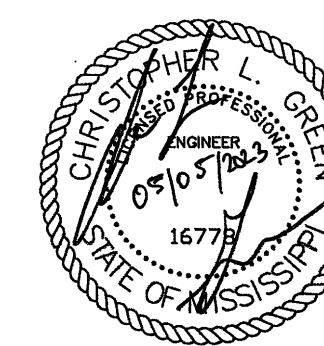
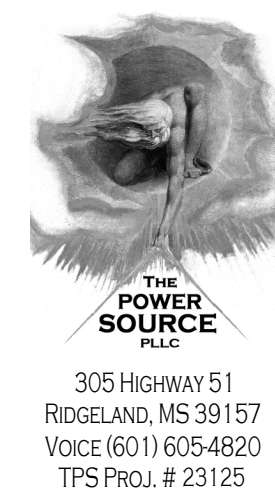
GENERAL NOTES	SWITCHES	CONDUIT AND WIRING																											
<p>1. ALL EQUIPMENT AND DEVICES ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.</p> <p>2. DEVICES NOTED AS "GFI" SHALL BE GROUND FAULT CIRCUIT INTERRUPTING DEVICES.</p> <p>3. DEVICES NOTED AS "WP" SHALL BE WEATHERPROOF WHILE-IN-USE.</p> <p>4. DEVICES NOTED AS "DL" SHALL BE RATED FOR DAMP LOCATION.</p> <p>5. DEVICES NOTED AS "NL" SHALL BE NIGHT LIGHTS. PROVIDE UNSWITCHED POWER TO FIXTURE.</p> <p>6. DEVICES NOTED AS "WG" SHALL BE PROVIDED AND INSTALLED WITH A WIRE GUARD.</p> <p>7. DEVICES NOTED AS "TR" SHALL BE TAMPER RESISTANT.</p> <p>8. PROVIDE UNSWITCHED POWER TO EMERGENCY BATTERY PACKS.</p> <p>9. "W/E" INDICATES DEVICE/DISCONNECT PROVIDED WITH THE EQUIPMENT BY OTHERS.</p>	<p>§ SINGLE-POLE, SINGLE-THROW SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>2§ DOUBLE-POLE, SINGLE-THROW, 30 AMP SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>3§ THREE-WAY SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>4§ FOUR-WAY SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>Ø LED DIMMER EQUAL TO LEVITON #IP710-LFZ MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>W AUTOMATIC WALL SWITCH, SENSORSWITCH #WSX-PDT OR APPROVED EQUAL. MOUNT CENTERLINE OF BOX AT 45" A.F.F. UNLESS NOTED OTHERWISE.</p> <p>§T HORSEPOWER RATED SWITCH WITH THERMAL OVERLOADS (MANUAL MOTOR STARTER).</p> <p>Ⓜ PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 12' RADIAL COVERAGE. CEILING MOUNTED. SENSORSWITCH #CM-PDT-9 OR APPROVED EQUAL.</p> <p>Ⓜ PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 28' RADIAL COVERAGE. CEILING MOUNTED. SENSORSWITCH #CM-PDT-10 OR APPROVED EQUAL.</p> <p>Ⓜ POWER PACK MOUNTED ABOVE CEILING. SENSORSWITCH #PP20 OR APPROVED EQUAL.</p>	<p>CONDUCTORS IN CONDUIT CONCEALED WITHIN WALL OR CEILING. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. FOR EXAMPLE, THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.</p> <p>THE TEXT INSIDE THE ARC INDICATES THE AWG SIZE OF THE CONDUCTORS THAT SHALL BE RUN IN THE CONDUIT. THE ABSENCE OF TEXT SIGNIFIES THAT THE CONDUCTORS SHOULD BE #12 AWG.</p> <p>CIRCUITRY RUN IN STRAIGHT LINE SEGMENTS SIGNIFIES EXPOSED SURFACE-MOUNTED RACEWAY (SEE SPECIFICATIONS).</p> <p>CONDUCTORS IN CONDUIT CONCEALED BELOW GRADE OR FLOOR. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.</p> <p>LA-1 HOMERUN TO PANELBOARD. ARC DENOTES CONCEALED CIRCUITRY. TEXT DENOTES PANELBOARD NAME WITH CIRCUIT NUMBER. DEVICES HAVING CIRCUIT NUMBERS LOCATED BESIDE THEM MAY NOT SHOW THE CIRCUIT NUMBERS AT THE HOMERUN ARROWS.</p> <p>LA-1 PARTIAL HOMERUN TO PANELBOARD. COMBINE ALL PARTIAL HOMERUNS THAT ARE ON THE SAME CIRCUIT IN A JUNCTION BOX PRIOR TO ENTERING THE PANELBOARD.</p> <p>LOW VOLTAGE CONDUCTORS USED FOR MOTION DETECTOR CIRCUITRY. SEE MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR REQUIREMENTS.</p>																											
<p>LUMINAIRES (See Light Fixture Schedule)</p> <p>NOTE: THE NUMBER INSIDE THE CIRCLE IS THE CIRCUIT NUMBER. THE LETTER BESIDE THE SYMBOL IS THE FIXTURE TYPE DESCRIBED IN THE LIGHT FIXTURE SCHEDULE.</p> <p>2 2'X2' RECESSED FIXTURE.</p> <p>2 2'X2' RECESSED EMERGENCY FIXTURE.</p> <p>2 SURFACE MOUNTED OR SUSPENDED FIXTURE.</p> <p>2 PENDANT MOUNT FIXTURE.</p>	<p>Ⓜ MISCELLANEOUS</p> <p>Ⓜ CONTACTOR.</p> <p>Ⓜ PHOTOCELL.</p> <p>Ⓜ CEILING MOUNTED JUNCTION BOX.</p> <p>Ⓜ WALL MOUNTED JUNCTION BOX.</p> <p>~ FLEXIBLE CONNECTION TO EQUIPMENT.</p>	<p>Ⓜ RECEPTACLES</p> <p>Ⓜ DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.</p> <p>Ⓜ DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, ONE COVER PLATE, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.</p> <p>Ⓜ DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, ONE COVER PLATE, MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSLASH. WHERE THERE IS NO BACKSLASH MOUNT 6" ABOVE COUNTER. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45"A.F.F. TO CENTERLINE OF BOX.</p> <p>Ⓜ DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSLASH. WHERE THERE IS NO BACKSLASH MOUNT 6" ABOVE COUNTER. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45"A.F.F. TO CENTERLINE OF BOX.</p> <p>Ⓜ DUPLEX RECEPTACLE, NEMA 5-20R, FOR DRINKING FOUNTAIN FED FROM GFI BREAKER. MOUNTED IN ACCORDANCE WITH MANUFACTURER'S ROUGH-IN REQUIREMENTS. VERIFY CONNECTION TYPE PRIOR TO BID. RECEPTACLE SHALL BE MOUNTED, CONCEALED BEHIND THE SHROUD OF THE DRINKING FOUNTAIN.</p>																											
<p>GEAR</p> <p>777 FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE; F-(RATING OF FUSES).</p> <p>777 NON-FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE.</p> <p>2 PANELBOARD.</p>		<p>VOLTAGE DROP CHART FOR 20A, 1Ø CIRCUITS</p> <table border="1"> <thead> <tr> <th>Voltage</th> <th>Circuit Length</th> <th>Conductor Size (AWG)</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>< 50'</td> <td>#12</td> </tr> <tr> <td>120</td> <td>> 50'</td> <td>#10</td> </tr> <tr> <td>120</td> <td>> 90'</td> <td>#8</td> </tr> <tr> <td>120</td> <td>> 140'</td> <td>#6</td> </tr> <tr> <td>277</td> <td>< 130'</td> <td>#12</td> </tr> <tr> <td>277</td> <td>> 130'</td> <td>#10</td> </tr> <tr> <td>277</td> <td>> 200'</td> <td>#8</td> </tr> <tr> <td>277</td> <td>> 330'</td> <td>#6</td> </tr> </tbody> </table> <p>VOLTAGE DROP CHART NOTES:</p> <p>1) CIRCUIT SIZES INDICATED ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. REFER TO THIS CHART FOR UPSIZING CONDUCTORS AS NEEDED.</p> <p>2) DO NOT CONNECT CONDUCTORS LARGER THAN #10 DIRECTLY TO A RECEPTACLE OR A SWITCH. PROVIDE A JUNCTION BOX TO DOWNSIZE THE CONDUCTOR TO #12 AT THE DEVICE.</p> <p>3) FOR CIRCUITS LONGER THAN THOSE LISTED ABOVE, CONSULT WITH THE ENGINEER FOR CONDUCTOR SIZES.</p>	Voltage	Circuit Length	Conductor Size (AWG)	120	< 50'	#12	120	> 50'	#10	120	> 90'	#8	120	> 140'	#6	277	< 130'	#12	277	> 130'	#10	277	> 200'	#8	277	> 330'	#6
Voltage	Circuit Length	Conductor Size (AWG)																											
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<p>COMMUNICATIONS</p> <p>◁ DATA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.</p>																													



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Carver Elementary: 900 44th Ave, Meridian, MS 39307

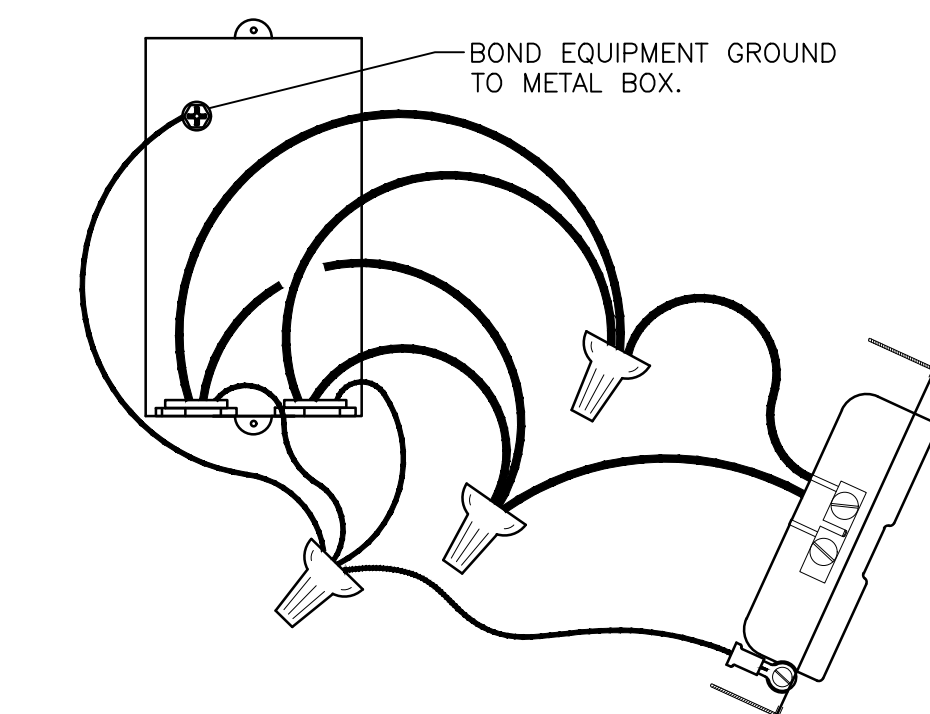
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Project No	22034.04
Date	May 05, 2023
Drawn	HBS
Checked	CLG
Revision	# Date

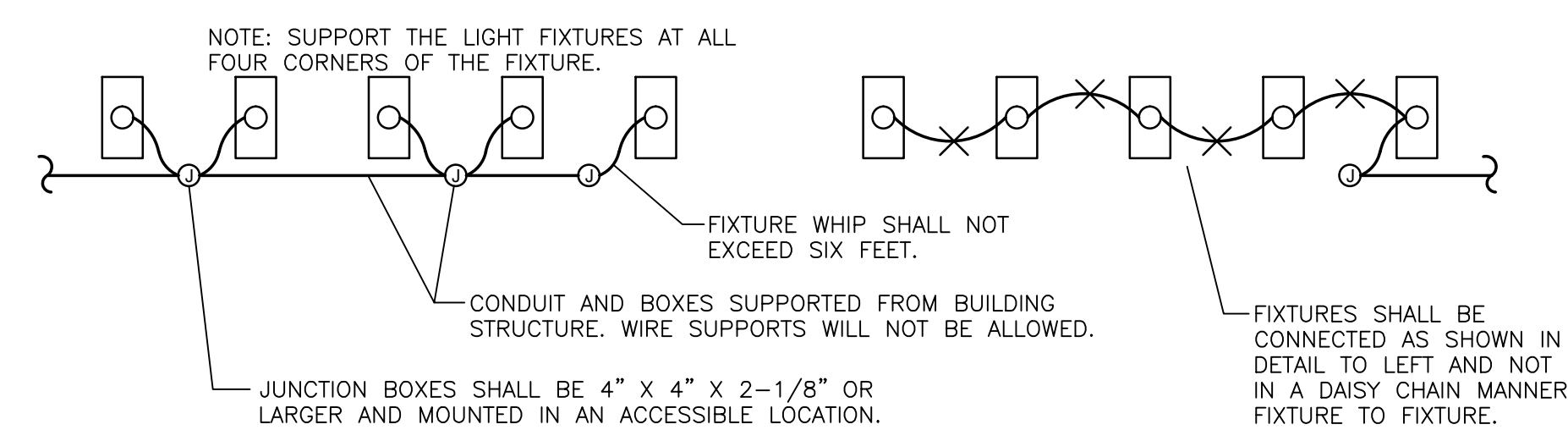


RECEPTACLE DETAIL NOTES:

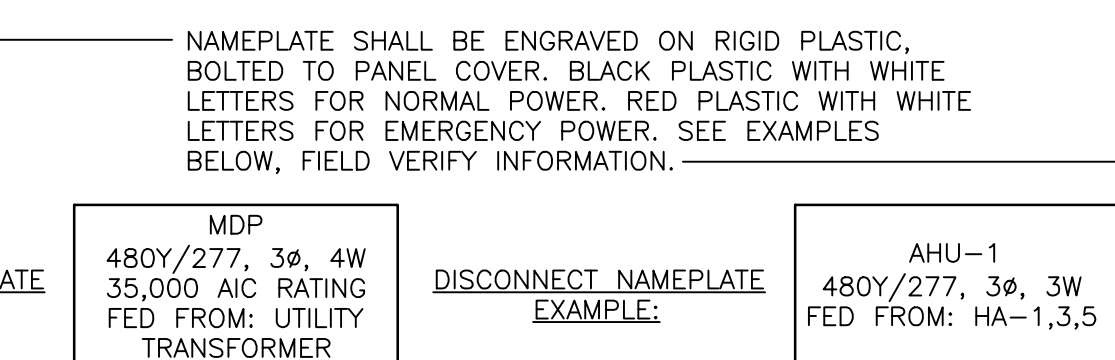
- A. THESE DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN. COORDINATE WITH THE MILLWORK CONTRACTOR TO DETERMINE THE EXACT LOCATION OF OUTLETS BEING PLACED IN AND AROUND MILLWORK.
- B. RECEPTACLES SHOWN AS GFI MAY BE NON GFI TYPE RECEPTACLES IF FED FROM A 20/1 GFI BREAKER OR THE LOAD SIDE OF A GFI RECEPTACLE IN THE SAME ROOM, ON THE SAME CIRCUIT AND RATED 20 AMP FEED-THRU CAPACITY. COVER PLATES SHALL BE CLEARLY MARKED GFI.
- C. NON GFI RECEPTACLES SHALL NOT BE CONNECTED IN A FEED-THRU MANNER. WIRE CONNECTIONS IN RECEPTACLE BOXES SHALL BE MADE IN A PIGTAIL MANNER AS SHOWN IN RECEPTACLE DETAIL.



3 RECEPTACLE DETAIL
E001 Scale: NONE



2 FIXTURE CONNECTION DETAIL
E001 Scale: NONE



WARNING	
ARC FLASH AND SHOCK HAZARDS APPROPRIATE PPE REQUIRED FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY	
34 inch 3 Cal/cm ² 8	Flash Hazard Boundary Flash Hazard at 18 inches Minimum Arc Rating of Clothing (cal/cm ²)
480 VAC 42 inch 12 inch 00	Shock Hazard When Cover is Removed Limited Approach Boundary Restricted Approach Boundary Minimum Glove Class
Equipment Name: XYZ	Date: XYZ

PROVIDE WARNING SIGNS AS SHOWN ON ALL SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, LOADCENTERS, ENCLOSED CIRCUIT BREAKERS, MOTOR STARTERS, & CONTACTORS. THIS REQUIREMENT REQUIRES THAT THE CALCULATIONS BE PERFORMED ON EQUIPMENT THAT IS SPECIFICALLY EXCLUDED FROM NFPA 70E.

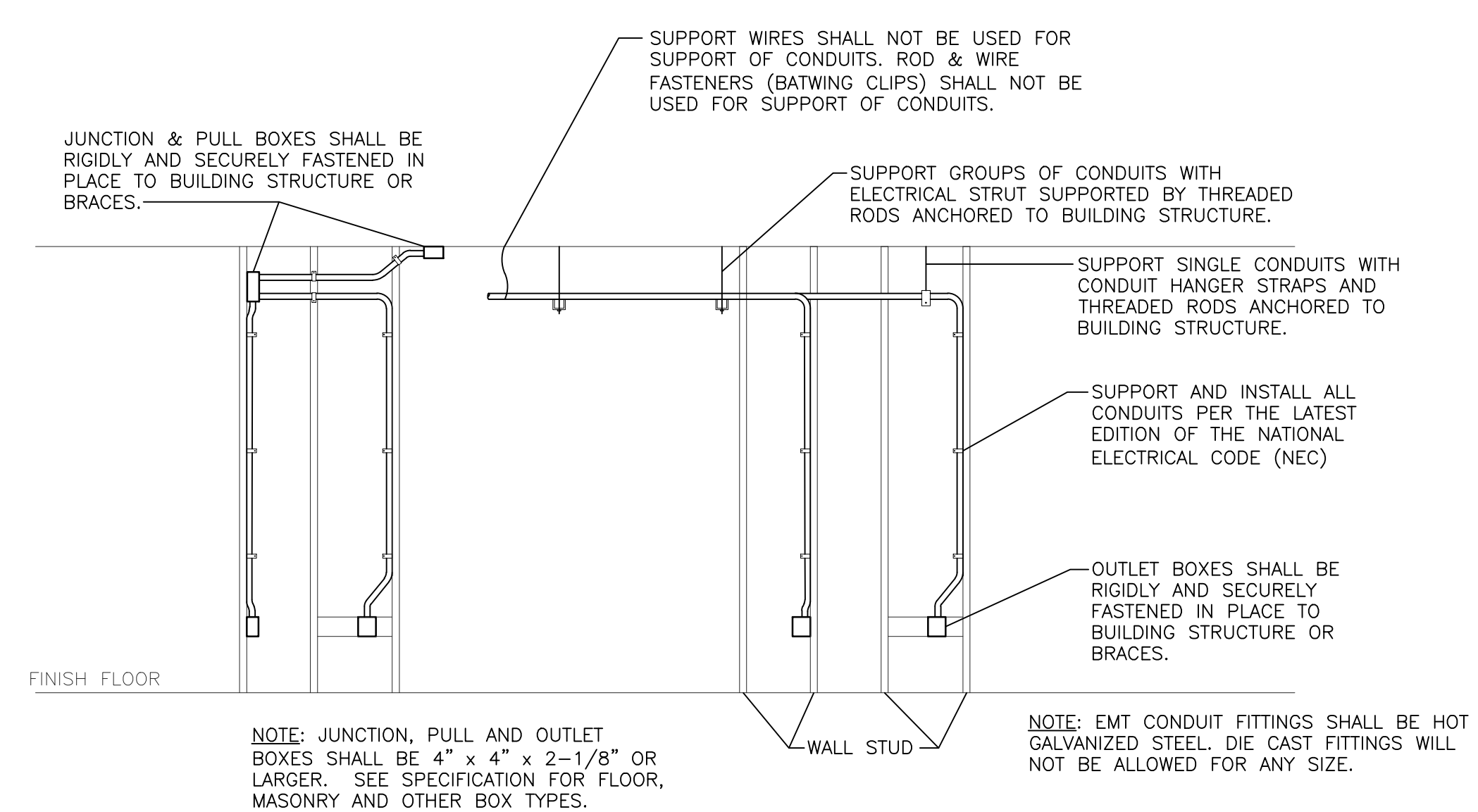
THE GEAR MANUFACTURER SHALL PERFORM ALL CALCULATIONS NECESSARY TO COMPLETE WARNING SIGNS ACCURATELY.

SEE SINGLE-LINE DIAGRAM AND SPECIFICATIONS FOR MORE INFORMATION.

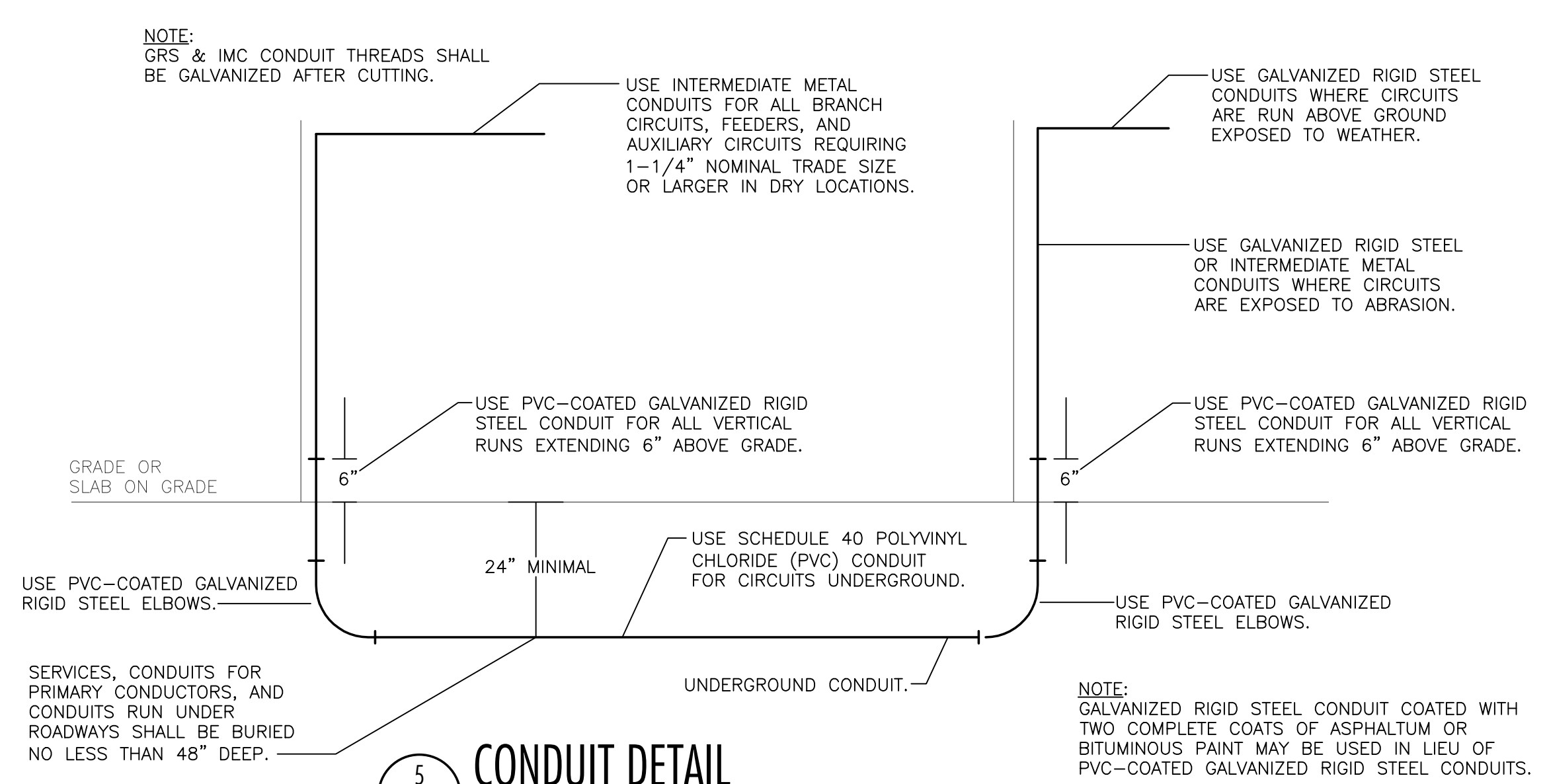
1 WARNING LABEL DETAIL
E001 Scale: NONE

NOTES:

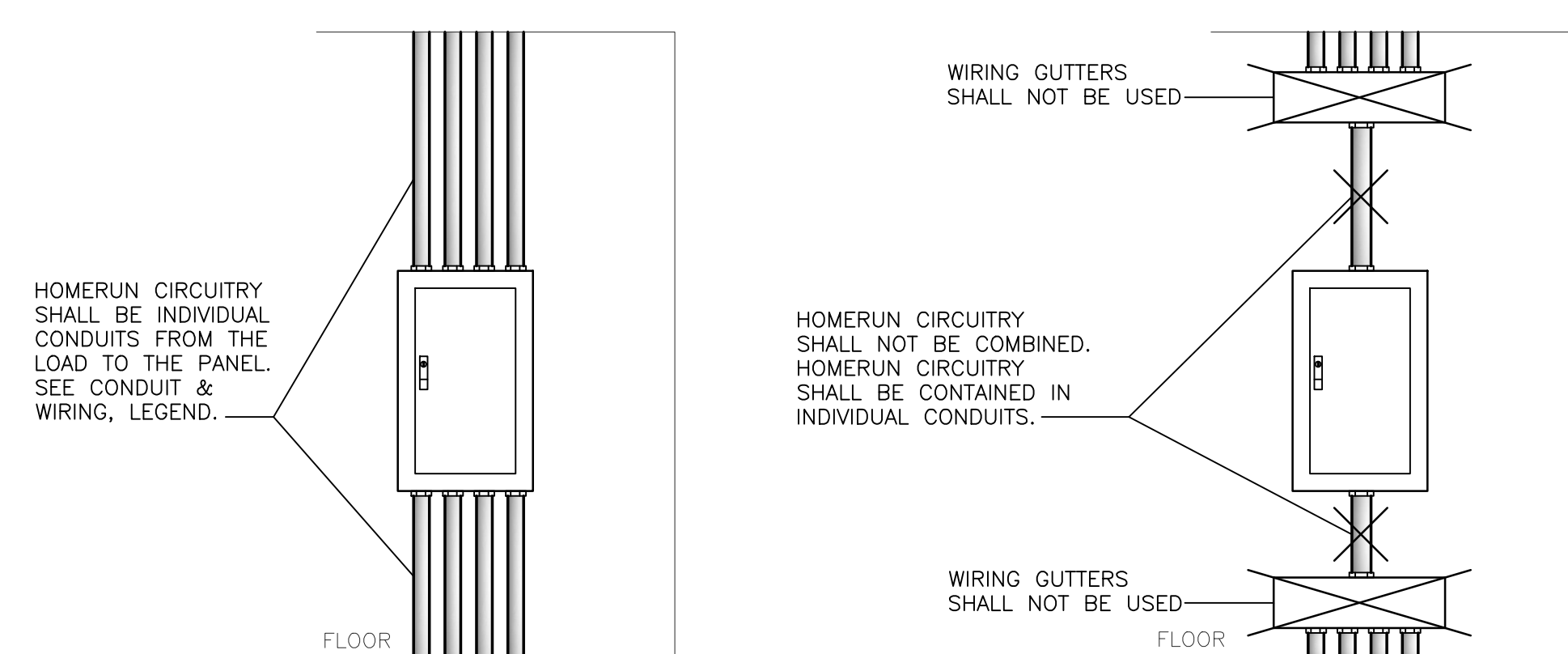
- 1. HOMERUN CONDUITS SHALL BE SIZE 3/4" OR LARGER.
- 2. CONDUITS SHALL BE LIMITED TO THREE CURRENT CARRYING CONDUCTORS.
- 3. PROVIDE TYPED CIRCUIT DIRECTORIES INSIDE DOOR OF EACH PANELBOARD. EACH CIRCUIT SHALL BE DISTINGUISHED FROM ALL OTHERS.
- 4. PROVIDE A LABEL FOR ALL SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, AND OTHER SERVICE EQUIPMENT THAT LEGIBLY DISPLAYS THE MAXIMUM AVAILABLE FAULT CURRENT. THE MAXIMUM FAULT CURRENT INFORMATION SHALL BE TAKEN FROM THE ARC FLASH/PROTECTIVE DEVICE COORDINATION STUDY PERFORMED BY THE GEAR MANUFACTURER. THE LABEL SHALL INCLUDE THE DATE THAT THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT OF THE EQUIPMENT.



4 JUNCTION & OUTLET BOX DETAIL
E001 Scale: NONE



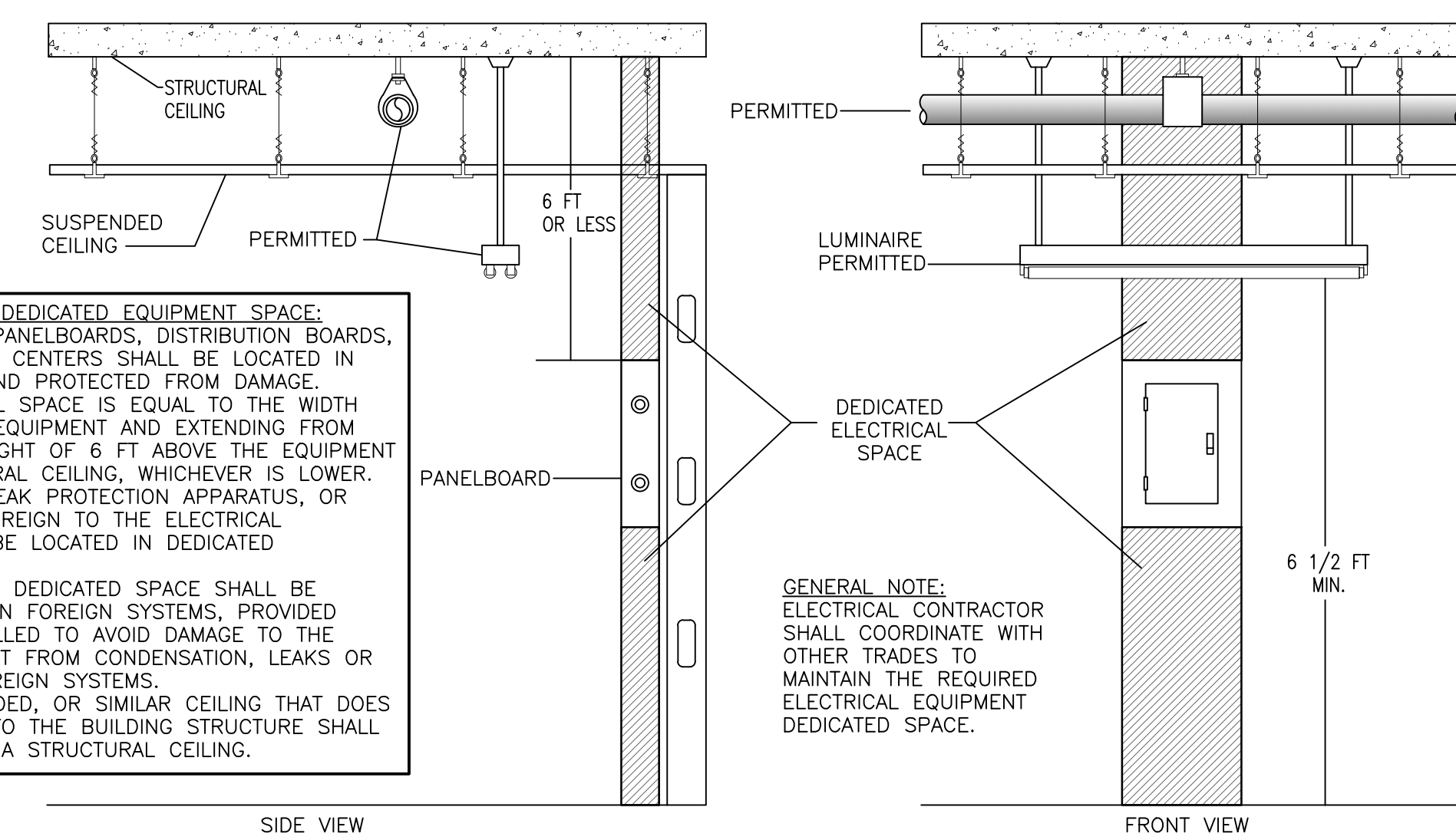
5 CONDUIT DETAIL
E001 Scale: NONE



- 1. HOMERUN CONDUITS SHALL BE SIZE 3/4" OR LARGER.
- 2. CONDUITS SHALL BE LIMITED TO THREE CURRENT CARRYING CONDUCTORS

6 HOMERUN DETAIL
E001 Scale: NONE

- NEC REQUIREMENTS FOR DEDICATED EQUIPMENT SPACE:**
1. ALL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, AND MOTOR CONTROL CENTERS SHALL BE LOCATED IN DEDICATED SPACES AND PROTECTED FROM DAMAGE.
 2. DEDICATED ELECTRICAL SPACE IS EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FT ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER.
 3. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN DEDICATED ELECTRICAL SPACE.
 4. THE AREA ABOVE THE DEDICATED SPACE SHALL BE PERMITTED TO CONTAIN FOREIGN SYSTEMS, PROVIDED PROTECTION IS INSTALLED TO AVOID DAMAGE TO THE ELECTRICAL EQUIPMENT FROM CONDENSATION, LEAKS OR BREAKS IN SUCH FOREIGN SYSTEMS.
 5. A DROPPED, SUSPENDED, OR SIMILAR CEILING THAT DOES NOT ADD STRENGTH TO THE BUILDING STRUCTURE SHALL NOT BE CONSIDERED A STRUCTURAL CEILING.



7 DEDICATED SPACE DETAIL
E001 Scale: NONE

SPECIFICATIONS

SECTION 26-05-11 ELECTRICAL GENERAL AND WORK IN EXISTING FACILITIES

SECTION 26-05-11 ELECTRICAL GENERAL AND WORK IN EXISTING FACILITIES (CONT.)

SECTION 26-05-20 LOW-VOLTAGE POWER CONDUCTORS AND CABLES

SECTION 26-05-33 RACEWAYS OUTLET BOXES AND JUNCTION BOXES

PART 1 - GENERAL
1.1 GENERAL
A. All work shall conform to the latest editions of the National Electrical Code (NEC) [National Fire Protection Association (NFPA) 70], the Standard for Electrical Safety in the Workplace (NFPA 70E), the Life-Safety Code (NFPA 101), the International Building Code, the Americans with Disabilities Act, and all other applicable federal, state, and local codes and regulations.

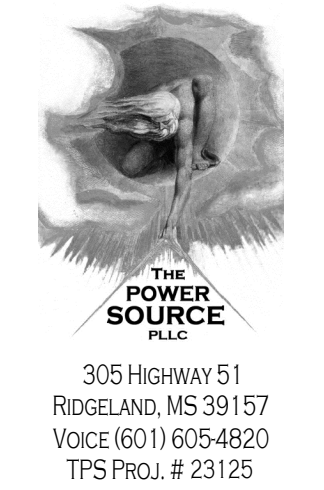
3.8 EXCAVATION AND BACKFILL
A. Excavate in such a manner as to minimize erosion of the soil. Backfill trenches around conduits with fine sand that is free of rocks, clods, and debris. Fill sand a minimum of 4" over conduits. Backfill the rest of the trench in six inch increments, wetted, and tamped. Final compaction shall be a minimum of 95% of that of the adjacent earth. Resurface the grade with the same material as that excavated from the grade whether it be paving, concrete, sod, etc. Repair work shall be comparable to the quality of the original site prior to excavation.

PART 1 - GENERAL
1.1 Provide all circuitry, terminations, splices, connectors, lugs, and other equipment necessary for connection of all equipment requiring electrical conductors.
1.2 METAL CLAD CABLE
A. Provide all circuitry, terminations, splices, connectors, lugs, and other equipment necessary for connection of metal clad cable where used on this project.

PART 1 - GENERAL
1.1 GENERAL
A. All electrical systems circuitry shall be contained in raceways unless expressly listed in the specification for that system.
B. Outlet Boxes and Junction Boxes
1. Furnish and install all outlet boxes and junction boxes in accordance with this specification and the requirements of the NEC.

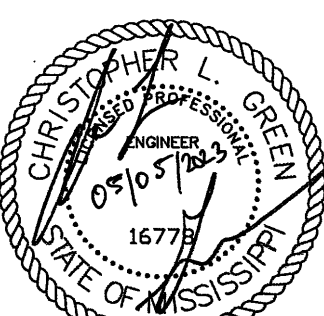
SECTION 26-05-26 GROUNDING AND BONDING

PART 1 - GENERAL
1.1 GENERAL
Ground all equipment, systems, structures, etc., per the latest edition of the National Electrical Code (NEC).
PART 2 - PRODUCTS
2.1 Use mechanical bolted connectors in dry locations that are accessible.



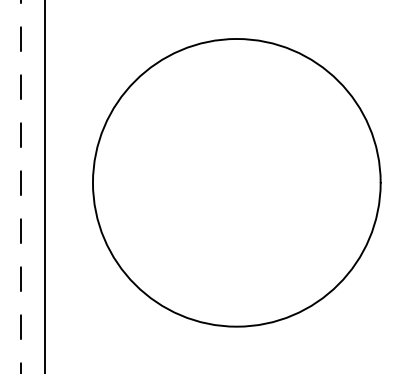
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Biloxi, MS 39530
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Table with 2 columns: Field (Project No, Date, Drawn, Checked, Revision) and Value (22034.04, May 05, 2023, HBS, CLG, #).

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E002 ELECTRICAL SPECIFICATIONS

SPECIFICATIONS

SECTION 26-05-33 RACEWAYS OUTLET BOXES AND JUNCTION BOXES (CONT.)

SECTION 26-09-23 SWITCHES AND RECEPTACLES

SECTION 26-09-24 OCCUPANCY SENSORS

SECTION 26-05-33 RACEWAYS OUTLET BOXES AND JUNCTION BOXES (CONT.)

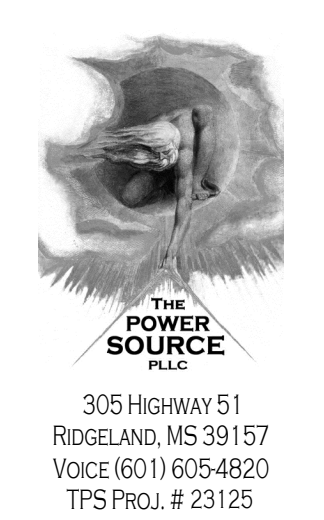
SECTION 26-28-00 DISCONNECTS AND SEPARATELY-MOUNTED CIRCUIT BREAKERS

SECTION 26-51-00 LIGHTING

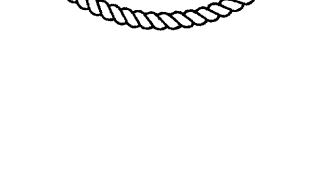
SECTION 26-28-00 DISCONNECTS AND SEPARATELY-MOUNTED CIRCUIT BREAKERS

SECTION 27-30-00 TELEPHONE AND DATA SYSTEMS

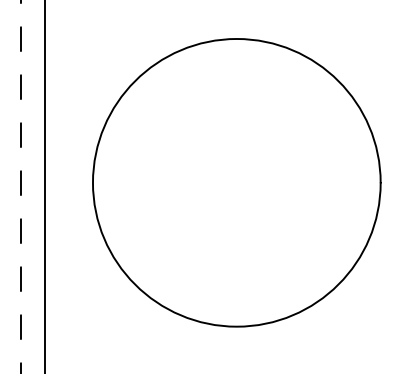
SECTION 27-30-00 TELEPHONE AND DATA SYSTEMS



305 Highway 51, Ridgeland, MS 39157



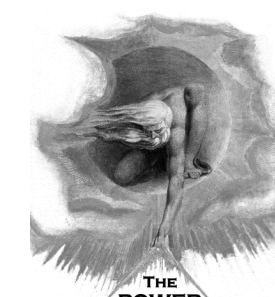
DALE BAILEY AN ASSOCIATION Architects One Jackson Place 250...



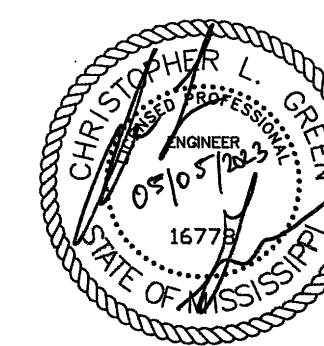
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E003 ELECTRICAL SPECIFICATIONS



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DEMOLITION NOTES

1. THE ELECTRICAL DEMOLITION DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE PROVIDED TO CONVEY THE GENERAL SCOPE OF WORK. ALL EXISTING DEVICES SHALL BE FIELD VERIFIED PRIOR TO BEGINNING WORK OR SUBMITTING PRICES. REROUTE CIRCUITRY OR REFEED EXISTING EQUIPMENT TO REMAIN AS REQUIRED TO FACILITATE THE COMPLETION OF ALL WORK ON THIS PROJECT.
2. THE OWNER SHALL BE GIVEN THE FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT BEING DEMOLISHED (FIXTURES, GEAR, DISCONNECTS, MOTOR STARTERS, ETC.). THE CONTRACTOR SHALL STORE EQUIPMENT THAT THE OWNER ELECTS TO KEEP AT THE LOCATION ON THE SITE TO BE DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE DEMOLISHED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
3. ALL EXISTING CIRCUITS IN THE RENOVATED AREAS SHALL BE TRACED BY THE ELECTRICAL CONTRACTOR AND MARKED ACCORDINGLY BEFORE BEGINNING WORK. ALL UNUSED BREAKERS SHALL BE LABELED AS "SPARE" AND TURNED OFF.
4. PROVIDE NEW TYPED CIRCUIT DIRECTORIES FOR ALL PANELS FEEDING DEVICES IN RENOVATED AREAS. INCLUDE ALL CIRCUITS CONTAINED IN THESE PANELS ON THE DIRECTORIES.

DEMOLITION LEGEND

- RL EXISTING DEVICE TO BE RELOCATED, RECONNECT TO EXISTING CIRCUITRY, SEE RENOVATION PLAN FOR NEW LOCATION.
- X EXISTING DEVICE TO BE DEMOLISHED IN ITS ENTIRETY. IF THE DEVICE IS ON A DEDICATED CIRCUIT, THE CIRCUITRY SHALL BE DEMOLISHED BACK TO THE PANEL AND THE BREAKER LABELED AS "SPARE".
- ETR EXISTING DEVICE TO REMAIN. EXISTING CIRCUITRY TO REMAIN UNLESS SHOWN WITH NEW ON POWER OR LIGHTING PLANS.

1 DEMOLITION PLAN
ED100 Scale: 1/8" = 1'-0"

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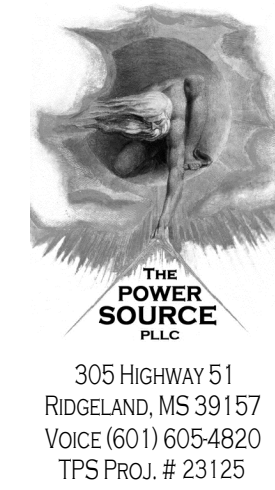
Project No	22034.04
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Checked	CLG
Revision	# Date

MASTER KEYED NOTES	
Mark	Description
①	CONNECT TO EXISTING LIGHTING CIRCUIT.
②	PROVIDE A NEW 25/3 CIRCUIT BREAKER IN EXISTING PANEL "NN1".
③	PROVIDE A NEW 40/1 LOCKABLE CIRCUIT BREAKER IN EXISTING PANEL "NN1".
④	PROVIDE A NEW 15/3 CIRCUIT BREAKER IN EXISTING PANEL "NN1".

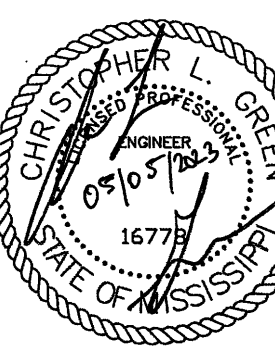
NOTE:
IF A KEYED NOTE IS NOT SHOWN ON A DRAWING, THEN THE KEYED NOTE SHALL BE IGNORED FOR THAT PARTICULAR DRAWING. THIS SHALL DIFFER FROM DRAWING TO DRAWING.



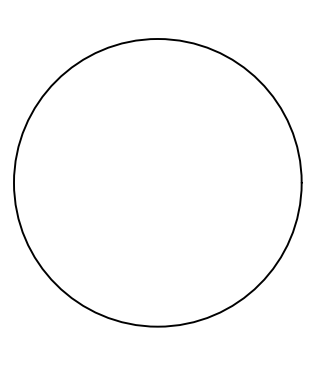
1 RENOVATION PLAN
E100 Scale: 1/8" = 1'-0"



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E100
RENOVATION
PLAN - CARVER
ELEMENTARY