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ADDENDUM NO. 6

Date: 10/02/2026
Project Name: North Fork WWTP
Owner: City of Liberty Hill
Garver Project No: W07-2401219

This addendum shall be a part of the Plans, Contract Documents and Specifications to the same extent as though it were originally included therein, and it shall supersede anything contained in the Plans, Contract Documents, and Specifications with which it might conflict. This addendum, including all attachments, shall become part of the Contract and all provisions of the Contract shall apply thereto. The time provided for completion of the Contract has not been changed as noted in this addendum. Acknowledgement of receipt of this addendum must be noted in the appropriate section of the Bid Form and included with the Contract Documents.

A. SPECIFICATIONS – Volume 1 and Volume 2

1. Remove the following specifications sections in their entirety, and replace with the same, attached hereto:
 - a. 23 34 23 – Fans
2. Add the following specification section in its entirety, attached hereto:
 - a. 03 10 02 – Geofoam
 - b. 09 93 00 – Staining and Transparent Finishing
 - c. 43 21 43 – Sump Pumps
 - d. 43 21 43.1 – Sump Pump Data Sheet
3. Revise Section 08 71 00 – Door Hardware as follows:
 - a. Revise paragraph 2.12.C.3.b by deleting “16 in. high” and replacing with “10 in. high”
4. Revise Section 40 05 78 – Air Release Valves as follows:
 - a. Add the following row to Table 2.11:

AIR RELEASE VALVE SCHEDULE

Facility	Pipe Size	Flow Stream	Valve Size	Quantity
30	4"	CIP	1"	1

5. Revise Section 41 22 23.20 – Monorail with Electric Hoist and Trolley as follows:

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- a. Revise paragraph 1.1.C.1.a by deleting “See drawings for specific information for each.” and replacing with “Facility 30 – Capacity: 0.5 tons”

B. DRAWINGS - Volume 4

1. Remove the following drawings in their entirety, and replace with the same, attached hereto:

- a. 01-G001 – COVER SHEET
- b. 05-C102 – PROPOSED EROSION CONTROL PLAN
- c. 05-C302 – PROPOSED YARD PIPING PLAN - OVERVIEW
- d. 05-C307 – PROPOSED YARD PIPING PLAN – ENLARGED 5
- e. 09-P101 – JUNCTION BOX PLANS
- f. 09-P301 – JUNCTION BOX SECTIONS
- g. 30-P102 – PROCESS TRAINS LOWER LEVEL AREA A
- h. 30-P103 – PROCESS TRAINS LOWER LEVEL AREA B
- i. 30-P113 – PROCESS TRAINS UPPER LEVEL AREA D
- j. 30-P114 – PROCESS TRAINS UPPER LEVE AREA E
- k. 30-P115 – PROCESS TRAINS UPPER LEVEL AREA F
- l. 30-P402 – AIR PIPE SUPPORT ENLARGED PLAN 2
- m. 30-P403 – RAS/WAS PUMP STATION UNDERSLAB PLAN
- n. 30-P404 – RAS/WAS PUMP STATION PLAN
- o. 30-P406 – RAS/WAS PUMP STATION SECTIONS
- p. 30-P409 – PERMEATE PUMP STATION SECTIONS
- q. 30-P411 – PERMEATE PUMP STATION SECTIONS
- r. 45-P101 – EFFLUENT PLAN VIEW
- s. 45-P302 – EFFLUENT SECTIONS 2
- t. 46-P101 – METER VAULT PLAN VIEWS
- u. 46-P301 – METER VAULT SECTION VIEWS
- v. 60-A101 – DEWATERING BUILDING FLOOR PLAN
- w. 70-A002 – ADMINISTRATION BUILDING LIFE SAFETY PLAN
- x. 70-A404 – ADMINISTRATION BUILDINGS ENLARGED PLANS LAB
- y. 70-A411 – ADMINISTRATION BUILDING ENLARGED PLAN OFFICE AREA
- z. 70-A503 – ADMINISTRATION BUILDING SECTION DETAILS

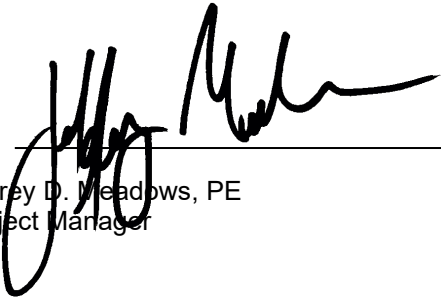
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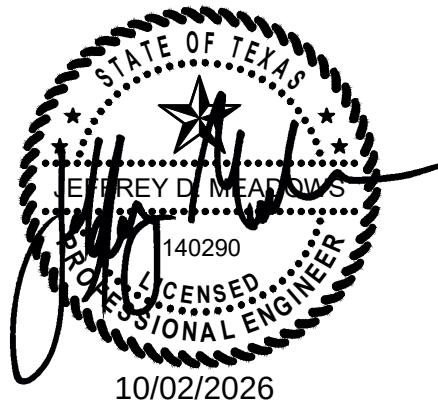
10/02/2026

- aa. 70-A507 – ADMINISTRATION BUILDING PARTITION TYPES
- bb. 70-A601 – ADMINISTRATION BUILDING SCHEDULES
- cc. 70-A605 – ADMINISTRATION BUILDING DOOR DETAILS
- dd. 70-A702 – ADMINISTRATION BUILDING FURNITURE PLAN
- ee. 85-A601 – NORTH ELECTRICAL BUILDING SCHEDULES

C. STANDARD DETAILS - Volume 5

- 1. No items for Standard Details are included in this addendum.

By: 
Jeffrey D. Meadows, PE
Project Manager



Attachments:

Specifications

- 03 10 02 – Geofoam
- 09 93 00 – Staining and Transparent Finishing
- 23 34 23 – Fans
- 43 21 43 – Sump Pumps
- 43 21 43.1 – Sump Pump Data Sheet

Drawings

- 01-G001 – COVER SHEET
- 09-P101 – JUNCTION BOX PLANS
- 09-P301 – JUNCTION BOX SECTIONS
- 30-P102 – PROCESS TRAINS LOWER LEVEL AREA A
- 30-P103 – PROCESS TRAINS LOWER LEVEL AREA B
- 30-P113 – PROCESS TRAINS UPPER LEVEL AREA D
- 30-P114 – PROCESS TRAINS UPPER LEVE AREA E
- 30-P115 – PROCESS TRAINS UPPER LEVEL AREA F
- 30-P402 – AIR PIPE SUPPORT ENLARGED PLAN 2
- 30-P403 – RAS/WAS PUMP STATION UNDERSLAB PLAN
- 30-P404 – RAS/WAS PUMP STATION PLAN
- 30-P406 – RAS/WAS PUMP STATION SECTIONS
- 30-P409 – PERMEATE PUMP STATION SECTIONS
- 30-P411 – PERMEATE PUMP STATION SECTIONS
- 45-P101 – EFFLUENT PLAN VIEW
- 45-P302 – EFFLUENT SECTIONS 2

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46-P101 – METER VAULT PLAN VIEWS
46-P301 – METER VAULT SECTION VIEWS
60-A101 – DEWATERING BUILDING FLOOR PLAN
70-A002 – ADMINISTRATION BUILDING LIFE SAFETY PLAN
70-A404 – ADMINISTRATION BUILDINGS ENLARGED PLANS LAB
70-A411 – ADMINISTRATION BUILDING ENLARGED PLAN OFFICE AREA
70-A503 – ADMINISTRATION BUILDING SECTION DETAILS
70-A507 – ADMINISTRATION BUILDING PARTITION TYPES
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70-A605 – ADMINISTRATION BUILDING DOOR DETAILS
70-A702 – ADMINISTRATION BUILDING FURNITURE PLAN
85-A601 – NORTH ELECTRICAL BUILDING SCHEDULES

END OF ADDENDUM NO. 6

SECTION 03 10 02 – GEOFOAM

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Geofoam for structural voids and other applications.

1.2 REFERENCES

- A. ASTM
 - 1. D6817, Standard Specification for Rigid Cellular Polystyrene.
 - 2. D7180, Standard Guide for use of Expanded Polystyrene (EPS) Geofoam in Geotechnical Projects.
 - 3. D7557, Standard Practice for Sampling of EPS Geofoam Specimens.

1.3 DEFINITIONS

- A. Geofoam: a lightweight, engineered material used in construction to provide structural support and insulation, offering high compressive strength and low density for various applications.

1.4 SUBMITTALS

- A. See Section 01 33 00 – Submittal Procedures for general submittal requirements.
- B. Action Submittals:
 - 1. Product data sheets for each material supplied.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Geofoam:
 - a. PowerFoam, LLC
 - b. Atlas Molded Products
 - c. Poly Molding, LLC

2.2 GEOFOAM

- A. Geofoam shall meet or exceed ASTM D6817 Type EPS 29, a minimum 10 psi compressive resistance @ 1% deformation.

PART 3 - EXECUTION

3.1 TRANSPORTATION

- A. Deliver geofoam that is free of defects or flaws that affect its workability qualities. Prevent damage to the geofoam during delivery, storage, and construction. Protect the geofoam blocks from ultraviolet light exposure and exposure to organic and petroleum-based solvents. Replace geofoam that has unacceptable surface damage (more than 20% equivalent load bearing area of the unit) or volume damage (more than 1% of the volume of a single unit).

3.2 INSTALLATION

- A. Place the geofoam in accordance with the layouts as shown on the plans and as directed. Clear the site from debris and dewater before laying the geofoam. Put the waterproofing, utilities, drainage pipes, and other elements adjacent to the geofoam in place before installation. Protect the integrity of the waterproofing during installation.
- B. Construct elements above the geofoam using the required special procedures and careful selection of appropriate construction equipment to prevent damage to the geofoam. Do not allow heavy construction equipment or vehicles directly on the geofoam.
- C. Multiple layers of geofoam blocks are required in some locations. Stagger alternating layers of geofoam block to avoid differential block to block movement and to avoid continuous joints. Ensure geofoam blocks placed in a row in a particular layer are placed at a 2 ft. offset, relative to blocks placed in adjacent rows of the same layer.

END OF SECTION

SECTION 09 93 00 - STAINING AND TRANSPARENT FINISHING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Primers
2. Wood stains.
3. Transparent finishes.

B. Related Requirements:

1. Section 099123 "Interior Painting" for stains and transparent finishes on concrete floors.
2. Section 099600 "High-Performance Coatings" for transparent high-performance coatings on concrete floors and clay masonry.

1.2 ACTION SUBMITTALS

A. Product Data:

1. For each type of product.
2. Include preparation requirements and application instructions.
3. Indicate VOC content.

B. Samples for Initial Selection: Manufacturer's standard color sheets, showing full range of available colors for each type of exposed finish.

C. Samples for Verification: Sample for each type of finish system and in each color and gloss of finish required on representative samples of actual wood substrates.

1. Size: 8 inches square.
2. Apply coats on Samples in steps to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

- D. Product List: Cross-reference to finish system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.
- E. Sustainable Design Submittals:
 - 1. Third-Party Certifications: For each product.
 - 2. Third-Party Certified Life Cycle Assessment: For each product.

1.3 MOCKUPS

- A. Apply mockups of each finish system indicated and each color selected to demonstrate aesthetic effects and to set quality standards for materials and execution.
 - 1. Architect will select one surface to represent surfaces and conditions for application of each type of finish system and substrate.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft..
 - b. Other Items: Architect will designate items or areas required.
 - 2. Final approval of stain color selections will be based on mockups.
 - a. If preliminary stain color selections are not approved, apply additional mockups of additional stain colors selected by Architect at no added cost to Owner.
 - 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.4 FIELD CONDITIONS

- A. Apply finishes only when temperature of surfaces to be finished and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply finishes when relative humidity exceeds 85 percent, at temperatures of less than 5 deg F above the dew point, or to damp or wet surfaces.
- C. Do not apply exterior finishes in snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 STAINING AND TRANSPARENT FINISHING

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Behr Paint Company (Behr Process LLC)
2. Benjamin Moore & Co.
3. Coronado Paint; Benjamin Moore & Co.
4. Diamond Vogel Paint Company
5. Dunn-Edwards Corporation (a Nippon Paint Holdings Co. Ltd. company)
6. Hempel (USA), Inc.
7. Lenmar Lacquers; Benjamin Moore & Co.
8. Pratt & Lambert; a subsidiary of The Sherwin-Williams Company
9. Rodda Paint Co.
10. Rust-Oleum Corporation
11. Sherwin-Williams Company (The)
12. The Pittsburgh Paints Company
13. United Gilsonite Laboratories (UGL)
14. Vista Paint Corporation
15. Or Approved Equal

B. Material Compatibility:

1. Provide materials for use within each coating system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.

- C. VOC Content, LEED 2009: For field applications that are inside the weatherproofing system, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:
 - 1. Clear Wood Finishes, Varnishes: 350 g/L.
 - 2. Clear Wood Finishes, Lacquers: 550 g/L.
 - 3. Shellacs, Clear: 730 g/L.
 - 4. Stains: 250 g/L.
- D. Low-Emitting Materials, LEED 2009: Interior paints and coatings shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- E. VOC Content, LEED v4: For field applications that are inside the weatherproofing system, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:
 - 1. Primers, Sealers, and Undercoaters: 100 g/L.
 - 2. Clear Wood Finishes, Varnishes: 275 g/L.
 - 3. Clear Wood Finishes, Lacquers: 275 g/L.
 - 4. Shellacs, Clear: 730 g/L.
 - 5. Stains: 100 g/L.
- F. Low-Emitting Materials, LEED v4: For field applications that are inside the weatherproofing system, 90 percent of paints and coatings shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- G. Material Emissions and Pollutant Control: Not less than 85 percent of field-applied paints and coatings that are inside the weatherproofing system shall comply with the following:
 - 1. Low-Emitting Materials: VOC emissions shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using

Environmental Chambers." Formaldehyde emissions shall not exceed 9 mcg/cu. m or 7 ppb, whichever is less.

- H. Emissions Requirements: Field-applied paints and coatings that are inside the weatherproofing system shall comply with either of the following:
 - 1. Low-Emitting Materials: VOC emissions shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
 - 2. VOC content shall not exceed limits of authorities having jurisdiction and the following:
 - a. Shellacs, Clear: 730 g/L.
 - b. Stains: 250 g/L.
 - c. Clear Wood Finishes (Varnishes, Sanding Sealers, and Lacquers): 275 g/L.
- I. VOC Emissions: For field applications inside the building, wall paints shall contain no more than half of the chronic REL of VOCs when tested according to the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." The building concentration of formaldehyde shall not exceed half of the indoor recommended exposure limit or 33 mcg/cu. m and that of acetaldehyde shall not exceed 9 mcg/cu. m.
- J. Stain Colors: As selected by Engineer from manufacturer's full range.

2.2 PRIMERS

- A. Primer, Alkyd Oil for Exterior Wood: Alkyd/oil-based primer for exterior wood with resistance to bleeding.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Benjamin Moore & Co.
 - b. Diamond Vogel Paint Company
 - c. Rodda Paint Co.

- d. Rust-Oleum Corporation
 - e. Sherwin-Williams Company (The)
 - f. The Pittsburgh Paints Company
 - g. Or Approved Equal
- B. Primer, Latex for Exterior Wood: Pigmented, water-borne, emulsion-type primer for exterior wood surfaces.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Behr Paint Company (Behr Process LLC)
 - b. Benjamin Moore & Co.
 - c. Diamond Vogel Paint Company
 - d. Dunn-Edwards Corporation (a Nippon Paint Holdings Co. Ltd. company)
 - e. Pratt & Lambert; a subsidiary of The Sherwin-Williams Company
 - f. Rodda Paint Co.
 - g. Rust-Oleum Corporation
 - h. Sherwin-Williams Company (The)
 - i. The Pittsburgh Paints Company
 - j. Vista Paint Corporation
 - k. Or Approved Equal
- C. Preservative for Exterior Wood: Solvent-based, penetrating anti-fungal treatment for exterior wood consisting mainly of zinc or copper naphthenate.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Rust-Oleum Corporation
 - b. Or Approved Equal

- D. Alkyd Sanding Sealer, Interior, Solvent Based, Clear: Solvent-based, quick-drying, clear, sandable alkyd sealer used on new interior wood surfaces that are to be top-coated with an alkyd varnish.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Pratt & Lambert; a subsidiary of The Sherwin-Williams Company
 - b. Rodda Paint Co.
 - c. Sherwin-Williams Company (The)
 - d. The Pittsburgh Paints Company
 - e. Or Approved Equal

2.3 WOOD STAINS

- A. Stain, Exterior, Solvent Based, Semitransparent: Solvent-based, oil or oil/alkyd, semitransparent, pigmented stain for new wood surfaces.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Behr Paint Company (Behr Process LLC)
 - b. Benjamin Moore & Co.
 - c. Diamond Vogel Paint Company
 - d. Rodda Paint Co.
 - e. Sherwin-Williams Company (The)
 - f. The Pittsburgh Paints Company
 - g. Or Approved Equal
- B. Stain, Exterior, Solvent Based, Solid Hide: Solvent-based, oil or oil/alkyd, pigmented stain for new, or previously stained, wood surfaces.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Diamond Vogel Paint Company
 - b. Sherwin-Williams Company (The)
 - c. Or Approved Equal
- C. Stain, Exterior, Water Based, Solid Hide: Water-based, solid-hide, emulsion-type, pigmented stain for primed or previously painted exterior wood surfaces.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Behr Paint Company (Behr Process LLC)
 - b. Benjamin Moore & Co.
 - c. Diamond Vogel Paint Company
 - d. Dunn-Edwards Corporation (a Nippon Paint Holdings Co. Ltd. company)
 - e. Rust-Oleum Corporation
 - f. Sherwin-Williams Company (The)
 - g. The Pittsburgh Paints Company
 - h. Vista Paint Corporation
 - i. Or Approved Equal
- D. Stain, Exterior, Water Based, Semitransparent: Water-based, semitransparent, pigmented stain for new wood surfaces.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Behr Paint Company (Behr Process LLC)
 - b. Benjamin Moore & Co.
 - c. Coronado Paint; Benjamin Moore & Co.

- d. Sherwin-Williams Company (The)
 - e. The Pittsburgh Paints Company
 - f. Or Approved Equal
- E. Stain, Exterior, for Wood Decks: Solvent- or water- based, modified-oil or alkyd-type, semitransparent, penetrating stain for exterior dimensional wood decking.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Behr Paint Company (Behr Process LLC)
 - b. Benjamin Moore & Co.
 - c. Diamond Vogel Paint Company
 - d. Pratt & Lambert; a subsidiary of The Sherwin-Williams Company
 - e. Rust-Oleum Corporation
 - f. Sherwin-Williams Company (The)
 - g. The Pittsburgh Paints Company
 - h. Or Approved Equal
 - 2. Basis-of-Design Product: Subject to compliance with requirements, provide <Insert manufacturer's name; product name or designation> or comparable product by one of the following:
 - a. Behr Paint Company (Behr Process LLC)
 - b. Benjamin Moore & Co.
 - c. Diamond Vogel Paint Company
 - d. Pratt & Lambert; a subsidiary of The Sherwin-Williams Company
 - e. Rust-Oleum Corporation
 - f. Sherwin-Williams Company (The)
 - g. The Pittsburgh Paints Company
 - h. Or Approved Equal

- F. Stain, Interior, Semitransparent, for Interior Wood: Solvent-based, oil or oil/alkyd, semitransparent, pigmented stain for new interior wood surfaces that are to be finished with a clear varnish.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Behr Paint Company (Behr Process LLC)
 - b. Pratt & Lambert; a subsidiary of The Sherwin-Williams Company
 - c. Rust-Oleum Corporation
 - d. Sherwin-Williams Company (The)
 - e. The Pittsburgh Paints Company
 - f. Or Approved Equal
- G. Shellac: Alcohol-based, shellac type, clear or light amber-colored coating for use as a sealer on stains and knots or as a wash coat to even the porosity of some wood types.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Rust-Oleum Corporation
 - b. Sherwin-Williams Company (The)
 - c. Or Approved Equal
- H. Danish Oil: Solvent-based, oil-type, penetrating stain for application by brush or wiping on interior wood surfaces.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Sherwin-Williams Company (The)
 - b. Or Approved Equal

2.4 TRANSPARENT FINISHES

- A. Varnish, Interior, Polyurethane, Oil Modified, Gloss: Solvent-based, one-component, oil-modified polyurethane clear gloss varnish for new or previously varnished or stained interior wood surfaces.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Behr Paint Company (Behr Process LLC)
 - b. Benjamin Moore & Co.
 - c. Rodda Paint Co.
 - d. Rust-Oleum Corporation
 - e. Sherwin-Williams Company (The)
 - f. The Pittsburgh Paints Company
 - g. United Gilsonite Laboratories (UGL)
 - h. Or Approved Equal
 - 2. Gloss Level: Manufacturer's standard gloss finish.

PART 3 - EXECUTION

3.1 APPLICATION

- A. Apply finishes according to manufacturer's written instructions.
 - 1. Use applicators and techniques suited for finish and substrate indicated.
 - 2. Finish surfaces behind movable equipment and furniture same as similar exposed surfaces.
 - 3. Do not apply finishes over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Apply finishes to produce surface films without cloudiness, holidays, lap marks, brush marks, runs, ropiness, or other surface imperfections.

3.2 INTERIOR WOOD-FINISH-SYSTEM SCHEDULE

A. Wood Substrates, Doors:

1. Polyurethane Varnish over Stain System :
 - a. Stain Coat: Stain, semitransparent, for interior wood.
 - b. First Intermediate Coat: Polyurethane varnish matching topcoat.
 - c. Second Intermediate Coat: Polyurethane varnish matching topcoat.
 - d. Topcoat: Varnish, interior, polyurethane, oil modified, satin gloss.

END OF SECTION

SECTION 23 34 23 – FANS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Type 4 – Sidewall propeller fans
 - 2. Type 14 – Centrifugal sidewall exhaust fans
 - 3. Type 16 – Energy recovery ventilators
- B. Related Sections:
 - 1. Section 01 40 00 – Quality Requirements

1.2 REFERENCES

- A. ABMA (American Bearing Manufacturers Association):
 - 1. 9 – Load Ratings and Fatigue Life for Ball Bearings.
 - 2. 11 – Load Ratings and Fatigue Life for Roller Bearings.
- B. AMCA (Air Movement and Control Association International, Inc.):
 - 1. 210 – Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating.
 - 2. 211 – Certified Rating Program- Product Rating Manual for Fan Air Performance.
 - 3. 300 – Reverberant Room Method for Sound Testing of Fan.
 - 4. 301 – Methods for Calculating Fan Sound Ratings from Laboratory Test Data.
- C. ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers):
 - 1. 52.1 – Gravimetric and Dust Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particle Matter.
 - 2. 68 – Laboratory Methods of Testing to Determine Sound-Power in a Duct.
- D. ASTM International:
 - 1. A108 – Standard Specification for Steel Bar, Carbon and Alloy, Cold-Finished.
 - 2. D4167 – Standard Specification for Fiber Reinforced Plastic Fans and Blowers.
 - 3. E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- E. NEC (National Electrical Code).
- F. NEMA (National Electrical Manufacturers Association):
 - 1. 250 – Enclosures for Electrical Equipment (1000 V Maximum).
- G. NFPA (National Fire Protection Association):
 - 1. 90A – Standard for Installation of Air Conditioning and Ventilating Systems.
 - 2. 820 – Standard for Fire Protection in Wastewater Treatment and Collection Facilities.
- H. NRCA (National Roofing Contractors Association).
- I. OSHA (Occupational Safety and Health Administration).
- J. UL (Underwriters' Laboratories, Inc.).

1.3 SYSTEM DESCRIPTION

- A. Design requirements:

1. Provide fans that have sharply rising pressure characteristics which extend throughout the operating range and continue to rise beyond the efficiency peak.
2. Provide fans that peak as close as possible to the maximum efficiency and whose operating range is within the normal fan selection range.
3. When scheduled, provide guided vibration isolator for fans, so that NOT more than 10% of the vibration amplitude of the fan and motor is transmitted to the supporting structure.
4. Design fan inner scroll and air stream surfaces to maintain smoothness for entire fan service life.
5. Seismic supports: as specified in Section 01 10 00 – Summary.
6. Wind supports for exterior units: as specified in Section 01 10 00 – Summary.
7. Electrical components: UL listed and meeting the design and installation requirements of the NEC.
8. Motors supplied with fans: Manufacturer's standard when type NOT scheduled; provide motor voltage phases and speed as scheduled; motor NOT to be overloaded at any point on the fan curve including belt losses.
 - a. All single-phase motors shall have integral thermal overload protection or shall be current limited. The motor nameplate shall be stamped specifying integral thermal protection is provided.
9. Roof curbs: Designed as specified in NRCA standards.
10. Insulation and adhesives: Meet NFPA 90A requirements for flame spread and smoke generation.
11. Belt drive systems: Adjustable for minimum within 5% speed change, rated for 1.5 times maximum horsepower motor available for the scheduled fan size or model.
12. Screens: Provide bird or insect screen as specified with the fan type or as listed on the Fan Schedule:
 - a. Bird screen: Stainless steel; 0.5-inch mesh 18 gauge.
 - b. Insect screen: Stainless steel mesh and frame.
13. Finishes: When NOT specified with fan type, coat ferrous metals as specified in Section 09 90 00 – Painting and Protective Coatings.
14. Accessories: Provide accessories specified and those scheduled.
15. Provide fans with fire/smoke control system as specified under paragraph Fire/Smoke Control System Design Requirements.

B. Performance Requirements:

1. Performance requirements are included in the Fan Schedule.
2. Fan performance: Rated and licensed to bear the AMCA label as specified in AMCA 210 and AMCA 211.
3. Total sound-power levels in the 8-octave band range as measured as specified in ASHRAE 68, AMCA 301, or AMCA 300 as appropriate for each fan: NOT to exceed the lesser of the following or the Sones levels on the Fan Schedule.

Sound-Power Level, decibel levels referenced to 10-12 watts								
Frequency, H	63	125	250	500	1,000	2,000	4,000	8,000
General	100	98	94	88	84	84	78	75

4. Air filters supplied with fans: 25–30% dust spot efficiency when rated per ASHRAE Testing Standard 52.1.
5. Bearings: Rated per ABMA 9 or 11 for a L10 life rating of NOT less than 50,000 hours; provide greater life when specified with each fan type.

C. Electrical and control system design:

1. Design and supply necessary electrical power and control systems, components, and wiring to make a complete functioning system. Design to perform the system ventilating functions with the control systems.
2. See Division 26 – Electrical.

- D. Fire control system design requirements:
 - 1. Provide all supply, exhaust, and odor control fans greater than or equal to 2,000 cubic feet per minute with smoke control system including the following minimum components.
 - a. Duct or fan mounted smoke detector.
 - b. Fan interlock to shut down fan upon smoke detection.
 - c. Signals for fans and smoke detectors to and from local fire alarm control panel if a fire alarm control panel is part of project design.
 - d. Provide all wire, conduit, end of line resistors, and other electrical equipment for complete functioning smoke control system. Provide in conformance with the electrical, mechanical, and instrumentation Drawings. When no electrical design for smoke control system is specified, Contractor shall provide design and installation of the smoke control system.

1.4 SUBMITTALS

- A. Product Data:
 - 1. For each type of product specified. Include rated capacities, operating characteristics, and furnished specialties and accessories.
 - 2. Include:
 - a. Certified fan performance curves with system operating conditions specified.
 - b. Certified fan sound-power ratings.
 - c. Motor ratings and electrical characteristics, plus motor and electrical accessories.
 - d. Material thickness and finishes, including color charts.
 - e. Dampers, including housings, linkages, and operators.
 - f. Roof curbs.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories:
 - 1. Listed and labeled as specified in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. AMCA Compliance:
 - 1. Fans shall have AMCA-Certified performance ratings and shall bear the AMCA-Certified Ratings Seal.
- C. UL Standards:
 - 1. Power ventilators shall be as specified in UL 705.
 - 2. Power ventilators used for restaurant kitchen exhaust shall also as specified in UL 762.

1.6 COORDINATION

- A. Coordinate size and location of structural-steel support members.
- B. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.
- C. Coordinate sizes and locations of wall openings and equipment supports with actual equipment provided.

1.7 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Belts: One set(s) for each belt-driven unit.

2. Provide two (2) extra sets (3 total) of filters per installed fan for fans specified with filters.

PART 2 - PRODUCTS

2.1 TYPE 4, SIDEWALL PROPELLER FANS

- A. Manufacturers (ONE of the following):
 1. Greenheck, Model SC, or SBC
 2. Loren Cook, Model AWD or AWB
 3. Penn Ventilator, similar model
 4. Other Approved Equal.
- B. Characteristics:
- C. Type:
 1. Wall-mounted, low noise propeller type, packaged unit.
 2. Fan: Statically and dynamically balanced propeller with aluminum blades, unless noted otherwise.
 3. Motor: Permanently lubricated; selected to avoid running in the service factor.
- D. Accessories:
 1. Motor and fan side OSHA guards.
 2. Wall mount collar when necessary for installation as specified in Drawings.
 3. Dampers with damper guards when damper scheduled.
 4. Weather hood when scheduled.
 5. Bird screen: Provide bird screen if no screen is listed on the Fan Schedule.
 6. Finish: Coat fan, housing, and accessories with polyester finish.
 7. Diffusers and louvers when scheduled.
 8. Mounting hardware.

2.2 TYPE 14, CENTRIFUGAL SIDEWALL EXHAUST FANS

- A. Manufacturers (ONE of the following):
 1. Greenheck, Model CWB
 2. Loren Cook, Model ACWB
 3. Penn Ventilator
 4. Other Approved Equal.
- B. Characteristics:
 1. Wall-mounted, upblast circular exhaust fan unit.
 2. Backward inclined centrifugal fan wheel with Venturi inlet; performance as scheduled.
 3. Materials: Aluminum fan, housing, and accessories.
 4. Fan bearings: Permanently lubricated ball bearing type.
 5. Adjustable belt drive rated for 150% of motor horsepower.
 6. Motor characteristics: As scheduled.
 7. Finishes: Provide Kynar paint coating over compatible primer on all steel surfaces.
 8. Provide duct adapter.
 9. Provide other accessories as scheduled.
- C. Accessories:
 1. Mounting brackets: Necessary for installation.
 2. Bird screen: Provide bird screen if no screen is listed on the Fan Schedule

2.3 ENERGY RECOVERY VENTILATOR

- A. Manufacturers:
 - 1. Greenheck Fan Corporation.
 - 2. Loren Cook Company.
 - 3. RenewAire LLC.
 - 4. Ruskin Company.
- B. Unit Casing: Constructed of galvanized steel with bolted construction using corrosion resistant fasteners. Furnish with inlet and outlet duct collars. Side panels hinged and removable for access to internal components. Energy wheel mounted in sliding track for access and cleaning. Fans and motor assembly mounted in sliding track for access.
- C. Energy Wheel: Constructed of synthetic fiber-based media impregnated with non-migrating water selective 4 angstrom molecular sieve desiccant.
- D. Fans: Individual supply and exhaust fans. Direct drive, forward curved, centrifugal blower with resilient mounted motor.
- E. Motors: Totally enclosed fan cooled with permanently lubricated sealed type bearings with ABMA 9 life at 200,000 hours.
- F. Sheaves: Cast iron or steel, dynamically balanced, bored to fit shafts and keyed; variable and adjustable pitch motor sheave selected so required rpm is obtained with sheaves set at mid-position.
- G. Filter: Minimum of 2 inch thick 30 percent efficient pleated type located in both supply and exhaust air streams.
- H. Electrical: Components factory wired for single point power connection. Control panel UL listed with access door.
- I. Accessories:
 - 1. Duct adapter for vertical discharge configuration.
 - 2. Intake weather hood with washable aluminum filters.
 - 3. Exhaust weather hood with bird screen.
 - 4. Motorized dampers factory installed in supply and exhaust air streams.
 - 5. Disconnect Switch: See spec 26 28 16.16 Enclosed Switches
 - 6. Vibration isolators.
 - 7. Fan speed controller.
 - 8. Dirty Filter Sensor: Activates warning light.
 - 9. Rotation Sensor: Sends signal to remote indicator when wheel stops.
 - 10. Economizer Mode: Stops wheel operation when outside air conditions approximate indoor air conditions. Furnish with comparative enthalpy sensor.
 - 11. Frost Control: Pre-heat frost operation.

2.4 SILICON CONTROLLED RECTIFIER (SCR):

- A. Manufacturers (ONE of the following):
 - 1. Greenheck, Solid State Speed Controller
 - 2. Penn Ventilator Lek-Trol Series
 - 3. Other Approved Equal.
- B. Characteristics:

1. Solid-state controller for use with 115-volt single phase shaded pole and open permanent split capacitor motors.
2. Minimum 10-amp rating.
3. Provide all necessary mounting boxes and hardware.
4. Provide with manual speed adjustment knob and on/off control.

2.5 MOTORS

- A. See NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors specified in Division 26 – Electrical.
 1. Motor Sizes: Minimum size as specified. If NOT specified, large enough so driven load will NOT require motor to operate in service factor range above 1.0.
 2. Controllers, Electrical Devices, and Wiring: See requirements for electrical devices and connections specified in Division 26 – Electrical.
- B. Enclosure Type:
 1. Totally enclosed, fan cooled.
- C. All single-phase motors shall have integral thermal overload protection or shall be current limited. The motor nameplate shall be stamped specifying integral thermal protection is provided.

2.6 SOURCE QUALITY REQUIREMENTS

- A. Certify sound-power level ratings as specified in AMCA 301, "Methods for Calculating Fan Sound Ratings from Laboratory Test Data." Factory test fans as specified in AMCA 300, "Reverberant Room Method for Sound Testing of Fans." Label fans with the AMCA-Certified Ratings Seal.
- B. Certify fan performance ratings, including flow rate, pressure, power, air density, speed of rotation, and efficiency by factory tests as specified in AMCA 210, "Laboratory Methods of Testing Fans for Aerodynamic Performance Rating." Label fans with the AMCA-Certified Ratings Seal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine and verify that Work is in condition to receive installation specified in this Section.
- B. Take measurements and verify dimensions to ascertain fit of installation.
- C. Ascertain support and openings are correctly located.

3.2 PREPARATION

- A. Before installation, remove dust and debris from equipment and ducts.
- B. During installation and until equipment is operated, protect equipment and ducts from dust and debris by covering openings with tape or plastic.

3.3 INSTALLATION

- A. Observe applicable installation requirements as specified.

- B. Anchoring and support:
 - 1. Provide anchoring and support for fans and appurtenances.
 - 2. Provide anchoring to sustain seismic and wind forces as specified in Section 01 10 00 – Summary.
- C. Adjust alignment of ducts where necessary to resolve conflicts with architectural features or to resolve conflicts with the work of other trades.
- D. Install flexible connections to fans.
- E. Install roof curb and fan as recommended by fan manufacturer.
- F. For fan housings with threaded water trap drain, provide drain piped from fan housing to the nearest drain channel, floor drain, or sump.
- G. Install fans level and plumb.
- H. Secure roof-mounted fans to roof curbs with cadmium-plated hardware.
- I. Install units with clearances for service and maintenance.
- J. Label units with permanent labels.

3.4 CONNECTIONS

- A. Ground equipment as specified in Division 26 – Electrical.
- B. Connect wiring as specified in Division 26 – Electrical.

3.5 FIELD QUALITY REQUIREMENTS

- A. Perform Tests and Inspections.
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- B. Tests and Inspections:
 - 1. Verify that shipping, blocking, and bracing are removed.
 - 2. Verify that unit is secure on mountings and supporting devices and that connections to ducts and electrical components are complete. Verify that proper thermal-overload protection is installed in motors, starters, and disconnect switches.
 - 3. Verify that cleaning and adjusting are complete.
 - 4. Disconnect fan drive from motor, verify proper motor rotation direction, and verify fan wheel free rotation and smooth bearing operation. Reconnect fan drive system, align and adjust belts, and install belt guards.
 - 5. Adjust belt tension.
 - 6. Adjust damper linkages for proper damper operation.
 - 7. Verify lubrication for bearings and other moving parts.
 - 8. Verify that manual and automatic volume control and fire and smoke dampers in connected ductwork systems are in fully open position.
 - 9. Disable automatic temperature-control operators, energize motor and adjust fan to specified rpm, and measure and record motor voltage and amperage.
 - 10. Shut unit down and reconnect automatic temperature-control operators.
 - 11. Remove and replace malfunctioning units and retest as specified above.

- C. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- D. Prepare test and inspection reports.

3.6 ADJUSTING

- A. Adjust damper linkages for proper damper operation.
- B. Adjust belt tension.
- C. Replace fan and motor pulleys as required to achieve design airflow.
- D. Lubricate bearings.

END OF SECTION

SECTION 43 21 43 – SUMP PUMPS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section Includes:
 - 1. The Work necessary to furnish and install, complete, the Sump Pumps specified herein, and as further specified in the Sump Pump Data Sheets hereinafter.
- B. Related Sections:
 - 1. Section 01 40 00 – Quality Requirements.

1.2 GENERAL

- A. Equipment Numbers: See supplemental data sheet(s) at end of section.
- B. Like items of equipment provided hereunder shall be the end products of one Manufacturer to achieve standardization for appearance, operation, maintenance, spare parts, and Manufacturer's service.
- C. See Division 01 – General Requirements, which contain information and requirements that apply to the work specified herein and are mandatory for this project.
- D. Unit Responsibility: The Work requires the Sump Pumps complete with all accessories and appurtenances including, but NOT necessarily limited to, Pump, Motor, spare parts, startup, and testing be the product of one responsible Manufacturer. Unless otherwise indicated, the Contractor shall obtain each system from the Manufacturer of the equipment, which Manufacturer shall provide all components of the system to enhance compatibility, ease of construction, and efficient operation and maintenance, and as necessary to place the equipment in operation and its intended functions without altering or modifying the Contractor's responsibilities under the Contract Documents. The Contractor is responsible to the Owner for performance of all equipment systems as indicated.
- E. The equipment specified herein is included in the Manufacturer/Subcontractor Form. Refer to the Bid Form and the Instructions to Bidder for additional requirements.

1.3 SUBMITTALS

- A. Submittals shall be made as required in Section 01 33 00, Submittal Procedures. The following specific information shall be provided:
 - 1. Shop Drawings: Shop drawings shall include descriptive information as required to fully describe the Pumps, Controls, Motors, and overall performance and shall identify any deviations from the specified requirements.
 - 2. Special handling instructions, in accordance with Section 01 60 00, Product Requirements.
 - 3. Requirements for storage and protection prior to installation, in accordance with Section 01 60 00, Product Requirements.
 - 4. Requirements for routine maintenance required prior to plant startup, in accordance with Section 01 60 00, Product Requirements.
 - 5. List of all requested exceptions to the Contract Documents.
 - 6. Motor information to be submitted in accordance with Division 26, Electrical.
 - 7. Quality requirements submittals as listed in Section 01 33 00, Submittal Procedures.
 - 8. Instrumentation and control submittals
 - 9. Factory Test Reports (Balance & Vibration).

- 10. Contract Closeout Submittals:
 - a. Service records for maintenance performed during construction.
 - b. Warranty

1.4 OPERATION AND MAINTENANCE DATA

- A. O&M Manuals: Content, format, and schedule for providing as specified in Section 01 77 00, Closeout Procedures.
- B. Maintenance Summary Forms: As specified in Section 01 77 00, Closeout Procedures.

1.5 WARRANTY

- A. Provide warranty for a period of 12 months after the date of Final Acceptance. The warranty shall stipulate that the equipment furnished is suitable for the purpose intended and free from defects of material and workmanship for the duration of the warranty. In the event the equipment fails to perform as specified, the Manufacturer shall promptly repair or replace the defective equipment without additional cost to the Owner.
- B. Spare parts identified within this specification shall NOT be used to address warranty repairs.
- C. As specified in Section 01 78 36 – Warranties and Bonds.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The use of a Manufacturer's name and model or catalog number is for the purpose of establishing the standard of quality and general configuration. Where a manufacturer's standard equipment name or model number is listed, the equipment system shall be provided and modified as required to conform to the performance, functions, features and materials of construction as specified herein.
- B. Each pump shall be of the sealed submersible type, incorporating features normally found in pumps furnished for the residential market. These features include:
 - 1. The pump volute, motor and seal housing shall be high quality gray cast iron, ASTM A48, Class 30.
 - 2. The pump inlet shall be open and clear, without screening to provide access for effluent and septic tank solids.
 - 3. All external mating parts shall be machined and Buna N, O-Ring sealed.
 - 4. All fasteners exposed to the pumped liquid shall be 300 series stainless steel.
 - 5. All power cords shall be water resistant UL or CSA approved, with double insulation and sized as a function of Amp. Draw.
- C. Manufacturers and models of components and accessories specified herein shall be as follows:
 - 1. Barnes
 - 2. Other Approved Equal.

2.2 SERVICE CONDITION

- A. As specified in Sump Pump Data Sheet(s) located at the end of this section as a supplement.

2.3 PERFORMANCE REQUIREMENTS

- A. As specified in Sump Pump Data Sheet(s) located at the end of this section as a supplement.

2.4 MOTOR AND SHAFT

- A. The stator, rotor and bearings shall be mounted in a sealed submersible type housing. Single phase motors shall be split phase with solid state switch and start capacitor. Three phase motors shall be Polyphase. Full Load and Locked Rotor Amps as well as Start and Run winding resistance shall be tabulated for each pump.

2.5 BEARINGS AND SHAFT

- A. A thrust bearing shall be required. It shall be heavy duty single row ball bearings which are permanently and continuously lubricated and cooled by the dielectric oil which fills the motor housing. The motor shaft shall be stainless steel and sealed from the pumped liquid with a carbon ceramic mechanical seal.

2.6 SEALS

- A. The rotor and stator in the motor housing shall be separated and protected from the pumped liquid by an oil filled housing incorporating two type 21 carbon ceramic mechanical seals mounted in tandem.

2.7 IMPELLER

- A. The Impeller shall be high capacity, two vane, high head design with pump out vanes on the back side. These vanes wash out grit and stringy material that will damage the shaft and mechanical seal.

2.8 PUMP ACCESSORIES

- A. The sump pump shall be provided with an integral float system. The float system shall turn the pump on when the water reaches a high level. The pump shall turn off when the water falls below the high level.
- B. Equipment Identification Plate: A 16-gauge stainless steel identification plate shall be securely mounted on each pump in a readily visible location. The plate shall bear the 1/4" die-stamped equipment identification number name that is assigned to each pump in the Sump Pump Data Sheets and shown on the Drawings.
- C. Lifting Lugs: Equipment weighing over 100 pounds shall be provided with lifting lugs.
- D. Painting: Provide touch-up painting for post-installation.
- E. See Sump Pump Data Sheets following this Section.
- F. Spare Parts and Special Tools: See Submersible Pump Data Sheets for spare parts and special tools required for each pump or set of pumps.

2.9 ELECTRICAL AND CONTROL SYSTEMS

- A. Electrical products and execution required to complete the Work under this section shall conform to the applicable requirements of Division 26, ELECTRICAL.
- B. Labeling: All electrical materials, devices, appliances, and equipment used shall be indicated as acceptable by established standards. Indication shall be by a valid label affixed to the item. Panels that consist of multiple components shall be listed and labeled as a unit in addition to any other requirements.

PART 3 - EXECUTION

3.1 SHIPPING, STORAGE, HANDLING, AND PROTECTION

- A. As specified in Section 01 60 00, Product Requirements.
- B. Delivery of Materials: Products shall be delivered in original, unbroken packages, containers or bundles bearing the name of the manufacturer.
- C. Storage: Products shall be carefully stored in a manner that will prevent damage and in an area that is protected from the elements.
- D. Protection of Equipment: Equipment shall be boxed, crated or otherwise protected from damage and moisture during shipment, handling and storage. Equipment shall be protected from exposure to corrosive fumes and shall be kept thoroughly dry at all times. Pumps, motors, drives, electrical equipment and other equipment with anti-friction or sleeve bearings shall be stored in weathertight and heated storage facilities prior to installation. For extended storage periods, plastic equipment wrappers shall NOT be used to prevent accumulation of condensate in gears and bearings.

3.2 INSTALLATION

- A. Install in strict accordance with manufactured directions and recommendations.
- B. Lubricants: The installation includes oil and grease for initial operation.
- C. Work shall be as specified in Section 01 60 00, Product Requirements.

3.3 PAINTING AND COATING

- A. All cast iron parts shall be painted before assembly with a water reducible alkyd air dried enamel. The paint shall be applied in one coat with a minimum thickness of 3 to 4 mils.

3.4 FACTORY TESTS

- A. All pumps shall be individually tested to include the following:
 - 1. The pump and power cord shall be visually inspected for imperfections, cuts or nicks.
 - 2. The pump shall have a ground continuity check and the motor chamber shall be Hi-potted to test for moisture content and/or insulation defects.
 - 3. The motor and volute housing shall be pressurized and a 10 second air leak decay test run.
 - 4. Oil is added, and the pump is run, voltage and current are monitored visually electronically and the tester listens for any noise or malfunction.

3.5 FIELD TESTS

- A. Functional Test: Prior to plant startup, all equipment described herein and in the Sump Pump Data Sheets following shall be inspected for proper alignment, quiet operation, proper connection, and satisfactory performance by means of a functional test. Provide certification of test results. Tests and certification shall be as specified in Section 01 75 00, Startup Testing And Training.

3.6 MANUFACTURER'S SERVICES

- A. Provide representative for one days on-site to verify correct installation, equipment testing, equipment certification, and personnel training.

3.7 MANUFACTURER'S CERTIFICATE(S)

- A. Provide Manufacturer's certificate(s). In accordance with Section 01 75 00, Startup Testing And Training.

3.8 SUPPLEMENTS

- A. The supplements listed below, and provided following "END OF SECTION," are part of this specification.
 - 1. 43 21 43.1 Sump Pump Data Sheet

END OF SECTION

Section 43 21 43.1 SUMP PUMP DATA SHEET

PROJECT: Liberty Hill North Fork WWTP
 OWNER: Liberty Hill
 EQUIPMENT NAME(S): Sump Pump
 EQUIPMENT TAG NUMBER(S): 461P1
 CONTROL PANEL(S): N/A
 TOTAL PUMPS REQUIRED: 1

MANUFACTURERS

MODEL

Barnes
 Or equal

SERVICE CONDITIONS

PERFORMANCE REQUIREMENTS

Liquid Pumped: Process Drain
 Specific Gravity at 60°F: 1
 Largest dia. Solid pump shall be capable of passing: 1 inch
 Min. NPSH available: _____
 Explosion Proof: ☐ Yes ☒ No
 Pumping Temperature: 50 - 75 °F

Capacity (US gpm) 20
 @ Total Dynamic Head (ft) 14
 Shutoff Pressure (ft) 20-30
 Variable Frequency Drive: ☐ Yes ☒ No
 Max Pump speed at rated capacity: 1800 rpm

EQUIPMENT DESCRIPTION

Casing Material: Cast Iron, ASTM A48 Class 30
 Casing Wear Ring Material: Stainless Steel
 Impeller Type: Balanced, Enclosed, 2 Vane Non-Clogging
 Impeller Material: Cast Iron, A48 Class 30
 Shaft Seals: Dual, Carbon and Ceramic Faced
 Thrust Bearing: Upper Radial and Lower Thrust

Discharge: 2-inch NPT
 Guide Rail Material: N/A
 Lifting Chain Material: N/A
 Pump Removal Hoist: ☐ Yes ☒ No
 Shaft Material: 316 Stainless Steel
 Double Mechanical Seal: ☒ Yes ☐ No

MOTOR DATA

Type: Squirrel-cage induction meeting requirements of NEMA MG1
 Manufacturer: For multiple units of the same type of equipment, furnish motors and accessories of a single manufacturer.
 Hazardous Location: ☐ Furnish motors for hazardous (classified) locations that conform to UL 674 and have an applied UL listing marking
 Motor Horsepower: 1 (max)
 Voltage: 115
 Phase: 1
 Frequency: 60 Hz
 Synchronous Speed: _____ rpm
 Service Factor: ☒ 1.0 ☐ 1.15

Mounting Type: ☐ Horizontal ☒ Vertical
 Enclosure Type: Sub/oil filled.
 Material: Cast Iron, A48 Class 30B
 Load Class: _____
☐ Multispeed, Two speed: _____ rpm

Motor nameplate horsepower shall NOT be exceeded at any operational point.

SPECIAL FEATURES / NOTES

See Division 26, ELECTRICAL for general instrumentation and control requirements.

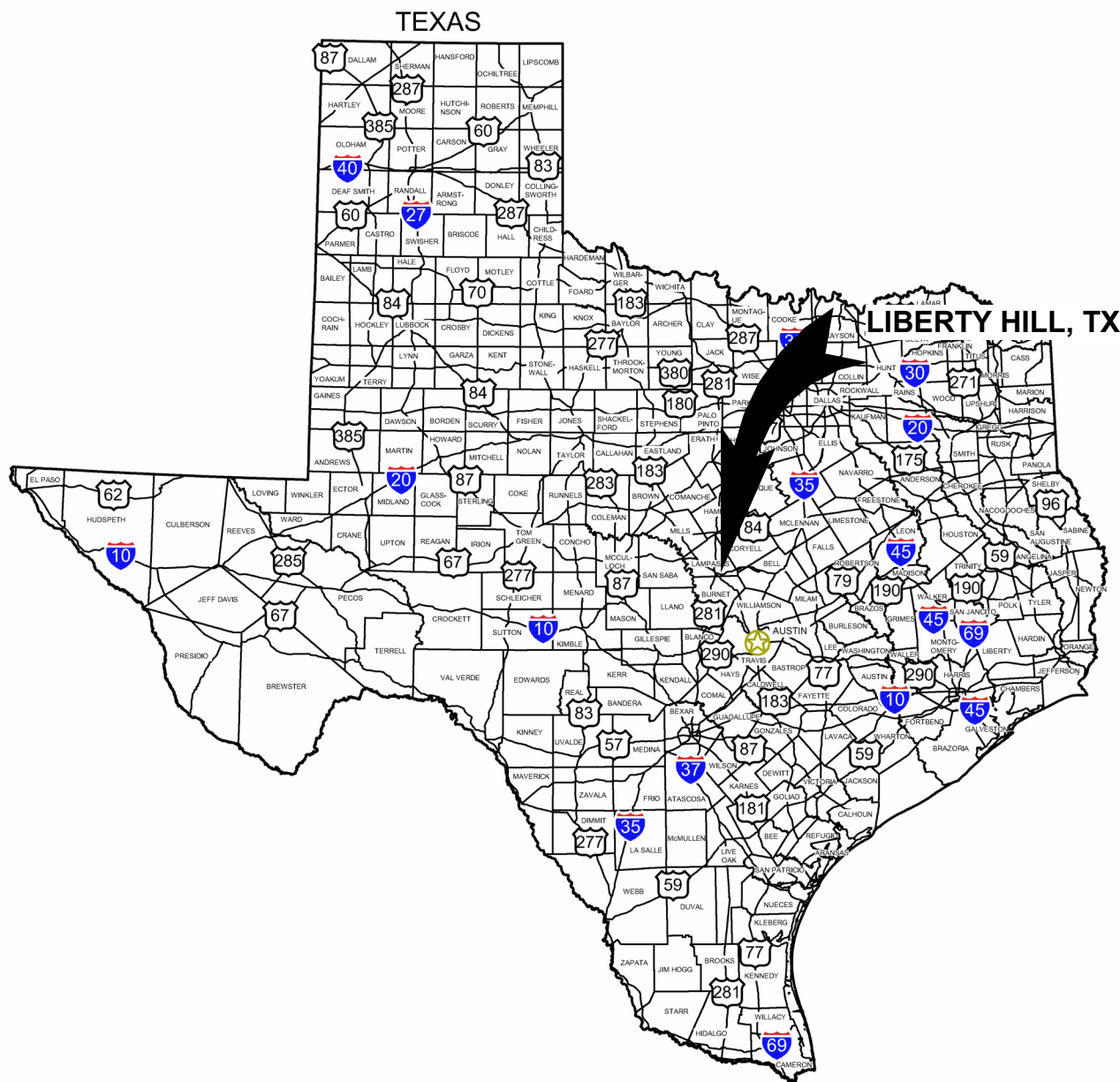
See Section 26 24 19, MOTOR CONTROL CENTERS for additional requirements.

One set of mechanical seals, bearings and O-rings required to replace each pump and special tools needed to dismantle pumps.

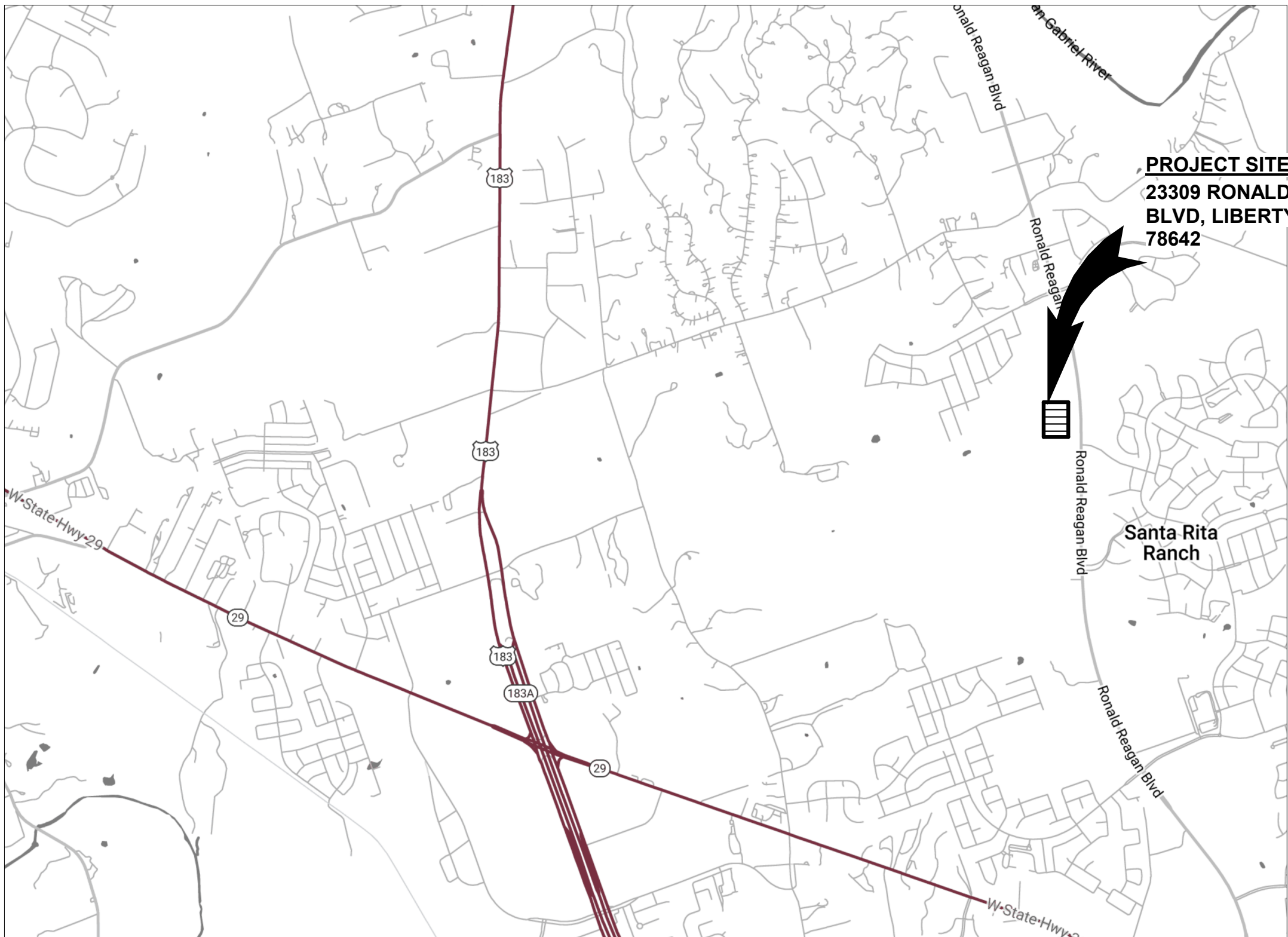
END OF SECTION

NORTH FORK WWTP CITY OF LIBERTY HILL

ISSUED FOR BIDDING



AREA MAP
NO SCALE



VICINITY MAP
NO SCALE

City Council Members

Crystal Mancilla, Mayor
Jacquetta Thayer, Place 1
Michael Helbing, Place 2
Diane Williams, Place 3
Elisabeth Brown, Place 4
Wade Ashley, Place 5
Tim Hennessy, Place 6

GARVER PROJECT NO. W07-2401219

AUGUST 2026



3755 S Capital of Texas Highway Ste 325
Austin, TX 78704
(512) 485-0009

Robyn Miga, MPA, Director of Planning

Elizabeth Hoeft, P.E., City Engineer

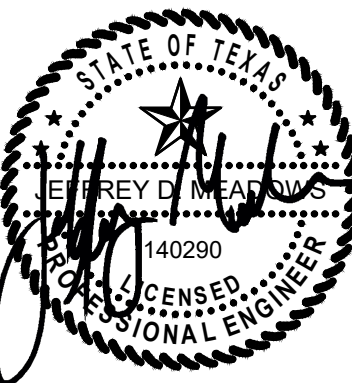
DATE: _____

DATE: _____



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REGISTRATION NO.
F-5713



10/02/2026

REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM NO. 6	NER

CITY OF LIBERTY HILL LIBERTY HILL TX	LIBERTY HILL NORTH FORK WWTP
---	------------------------------

COVER SHEET

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: SJC
DRAWN BY: PD
CHECKED BY: NER

BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

01-G001

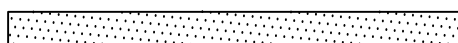
SHEET
NUMBER **1**

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Last plotted by: Paik, Seung J. (Sam) Plot Style: AECmono.ctb Plot Date: 10/2/2026 3:50 PM Plotter Used: None

XX PROPOSED STRUCTURES

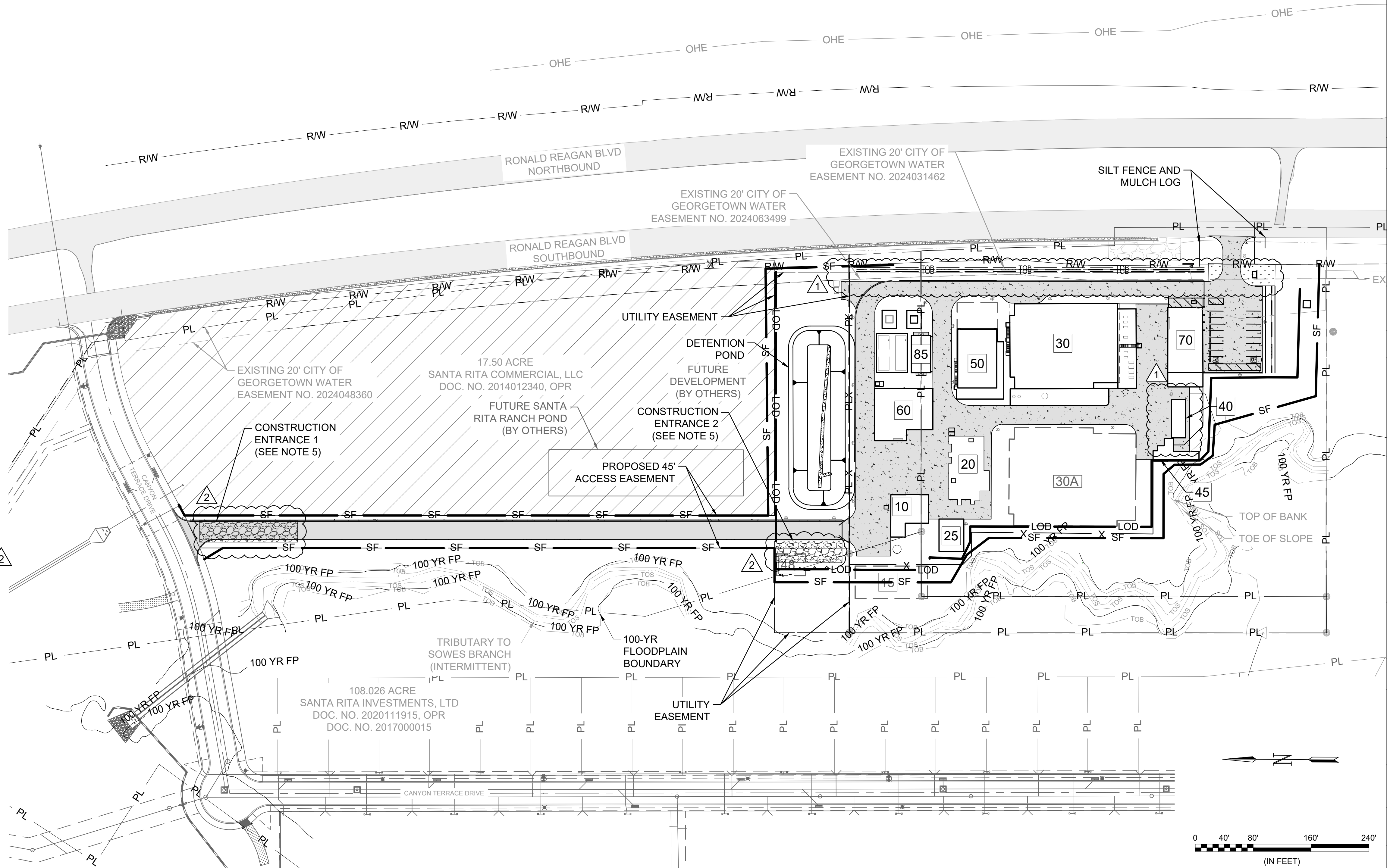
PROPOSED FACILITIES	
10	PRIMARY HEADWORKS
15	FUTURE EQUALIZATION BASIN
20	SECONDARY HEADWORKS
25	ODOR CONTROL
30	MBR PROCESS TRAINS
30A	FUTURE MBR PROCESS TRAINS
40	UV DISINFECTION
45	EFFLUENT FACILITY
48	FUTURE AWPS PUMP STATION
50	AERATED SLUDGE HOLDING TANKS
60	DEWATERING FACILITY
70	ADMINISTRATION BUILDING
85	ELECTRICAL BUILDING

LEGEND

— LOD —	LIMITS OF DISTURBANCE
— SF —	SILT FENCE
• — • — • —	COMPOST FILTER SOCK
	INLET PROTECTION BARRIER
	TRACKOUT CONTROL MAT CONSTRUCTION EXIT
	GRAVEL/ GRAVEL CONSTRUCTION EXIT

NOTES:

1. THE RONALD REAGAN BOULEVARD EXPANSION PROJECT IS IN ACTIVE CONSTRUCTION DURING DESIGN OF THE NORTH FORK WWTP PROJECT. THE RONALD REAGAN EXPANSION PROJECT IS EXPECTED TO BE COMPLETED WHEN NORTH FORK WWTP CONSTRUCTION STARTS, SO FEATURES ASSOCIATED WITH RONALD REAGAN EXPANSION ARE SHOWN AS EXISTING IN THIS PLAN SET.
2. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND FOLLOW ALL REQUIREMENTS FOR ALL REQUIRED STORMWATER AND CONSTRUCTION PERMITS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. CONTRACTOR SHALL INSTALL AND MAINTAIN SEDIMENT AND EROSION CONTROL MEASURES NECESSARY TO PREVENT SEDIMENT FROM EXITING THE PROJECT SITE. IN THE EVENT SEDIMENT FROM THE CONSTRUCTION AREA ACCUMULATES ON ADJACENT PROPERTIES IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE THE SEDIMENT AND RESTORE DAMAGED AREA TO ORIGINAL CONDITION.
3. MAINTAIN AND KEEP CLEAN THE CONSTRUCTION EXIT. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET SWEEPING IF SEDIMENT FROM CONSTRUCTION SITE IS TRACKED ONTO ADJACENT ROADWAYS.
4. CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT ALL BMPs AFTER RAINFALL EVENTS. CONTRACTORS SHALL REPAIR AND MAINTAIN MEASURES AS NEEDED TO ENSURE ALL MEASURES ARE INSTALLED AND WORKING AS NEEDED.
5. CONSTRUCTION ENTRANCE 1 (CONSTRUCTION EXIT TYPE 1 PER TXDOT STANDARD DETAIL EC(3)-16) SHALL BE USED UNTIL THE NORTH ACCESS ROAD IS ACCEPTED AND IN USE. AFTER NORTH ACCESS ROAD IS ACCEPTED AND IN USE CONTRACTOR SHALL USE CONSTRUCTION ENTRANCE.
6. CONTRACTOR SHALL OBTAIN ALL TEMPORARY CONSTRUCTION EASEMENTS NECESSARY TO INSTALL CONSTRUCTION ENTRANCES.
7. CANYON TERRACE DRIVE AND THE ASSOCIATED UTILITIES AND SURFACE FEATURES ARE CURRENTLY IN DESIGN AND ARE EXPECTED TO BE COMPLETED WHEN NORTH FORK WWTP CONSTRUCTION STARTS. DESIGN FEATURES ASSOCIATED WITH THESE PROJECTS ARE SHOWN AS EXISTING IN THIS PLAN SET.





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REGISTRATION NO.
F-5713



BY	DATE	DESCRIPTION	REV
SJM	09/18/26	ADDENDUM NO.4	1
SJM	10/2/26	ADDENDUM NO.6	2



CITY OF LIBERTY HILL
3604 RONALD REAGAN BLVD,
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

PROPOSED EROSION
CONTROL PLAN

JOB NO.: W07-2401219
DATE: SEPT. 2026
DESIGNED BY: SJM
DRAWN BY: OG
CHECKED BY: SJM

BAR IS ONE INCH ON
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0 1"
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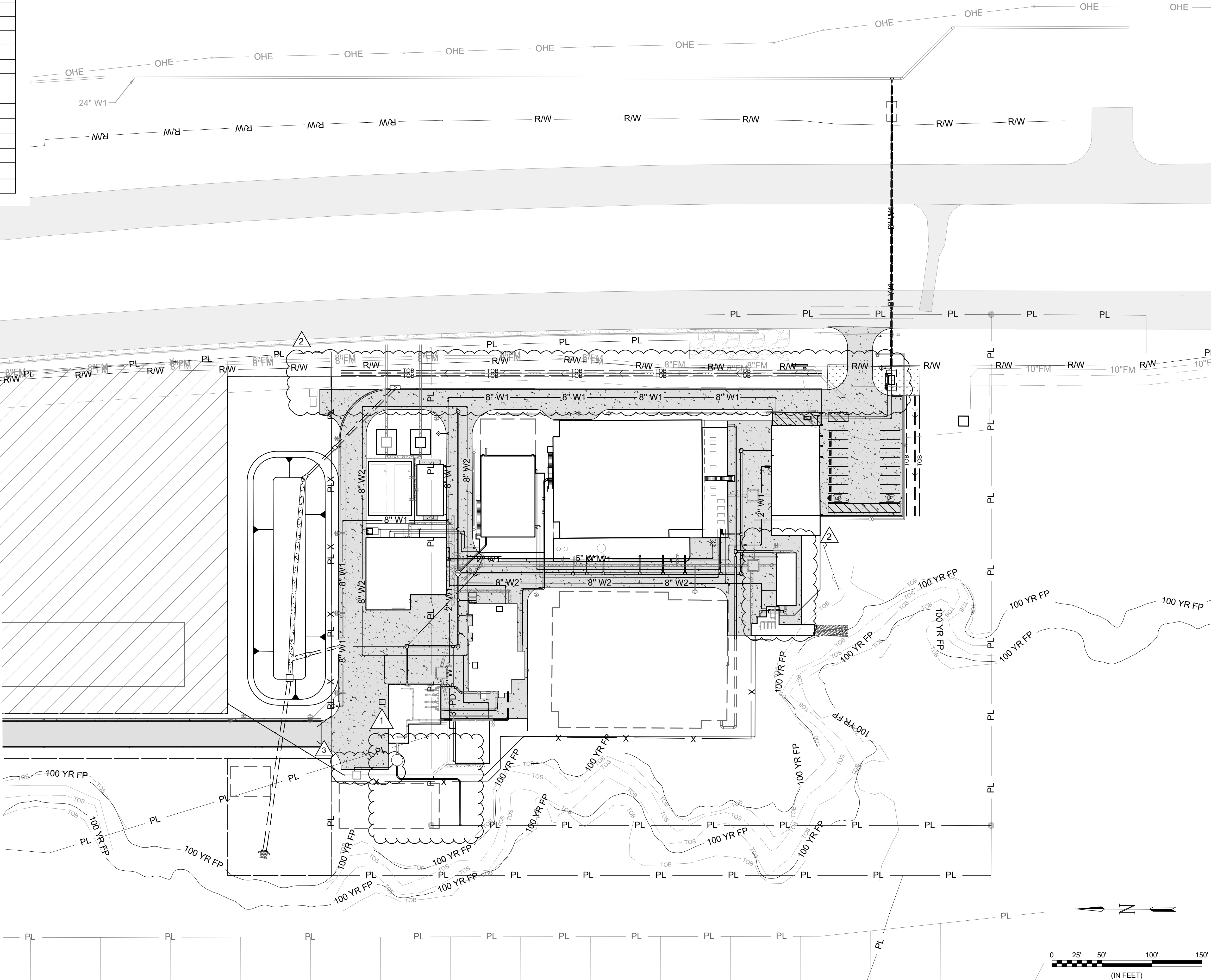
DRAWING NUMBER
05-C102

SHEET
NUMBER **43**

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Last plotted by: Garcia, Orlando Plot Style: AECmono.ctb Plot Scale: 1/2,5849 Plot Date: 10/2/2026 4:01 PM Plotter used: None

XX PROPOSED STRUCTURES

PROPOSED FACILITIES	
10	PRIMARY HEADWORKS
15	FUTURE EQUALIZATION BASIN
20	SECONDARY HEADWORKS
25	ODOR CONTROL
30	MBR PROCESS TRAINS
30A	FUTURE MBR PROCESS TRAINS
40	UV DISINFECTION
45	EFFLUENT FACILITY
48	FUTURE AWPS PUMP STATION
50	AERATED SLUDGE HOLDING TANKS
60	DEWATERING FACILITY
70	ADMINISTRATION BUILDING
85	ELECTRICAL BUILDING



A PIPING NOTES:

PIPING LAYOUT COORDINATES

NOTES:

- EXISTING PIPING IS SHOWN BASED ON AVAILABLE RECORD DRAWINGS AND INFORMATION PROVIDED TO THE ENGINEER. CONTRACTOR SHALL REVIEW EXISTING RECORD DRAWINGS AND FIELD VERIFY LOCATIONS AND DEPTHS OF ALL PERTINENT LINES PRIOR TO CONSTRUCTION.
- FOR ELECTRICAL DUCT BANK INFORMATION SEE ELECTRICAL DRAWINGS.
- EXISTING PIPELINES ARE SHOWN BASED ON RONALD REAGAN BOULEVARD WIDENING PLANS BY CP&Y DATED MARCH 29, 2024. CONTRACTOR SHALL VERIFY CONTINUATION AND ROUTE OF PIPELINES PRIOR TO CONSTRUCTION. ANY LINES FOUND TO BE IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IMMEDIATELY.
- PROPOSED 15' UTILITY EASEMENT IS BETWEEN THE SANTA RITA RANCH DEVELOPMENT AND THE CITY OF GEORGETOWN. CONTRACTOR SHALL COORDINATE WITH BOTH ENTITIES TO VERIFY FINAL EASEMENT LOCATION PRIOR TO CONSTRUCTION.
- DESIGN AND INSTALLATION OF THE COMMUNICATIONS ANTENNA ARE THE RESPONSIBILITY OF THE ANTENNA MANUFACTURER. REFERENCE SPECIFICATION 40 66 66 FOR ADDITIONAL DETAILS.



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REGISTRATION NO. F-5713



BY	DESCRIPTION	DATE	REV
SJM	ADDENDUM NO.3	09/11/26	1
SJM	ADDENDUM NO.4	09/18/26	2
SJM	ADDENDUM NO.6	10/02/26	3



CITY OF LIBERTY HILL
3604 RONALD REAGAN BLVD,
LIBERTY HILL, TX

PROPOSED YARD
PIPING PLAN -
OVERVIEW

JOB NO.: W07-2401219
DATE: SEPT. 2026
DESIGNED BY: SJM
DRAWN BY: OG
CHECKED BY: SJM

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DRAWING NUMBER

05-C302

SHEET NUMBER 65

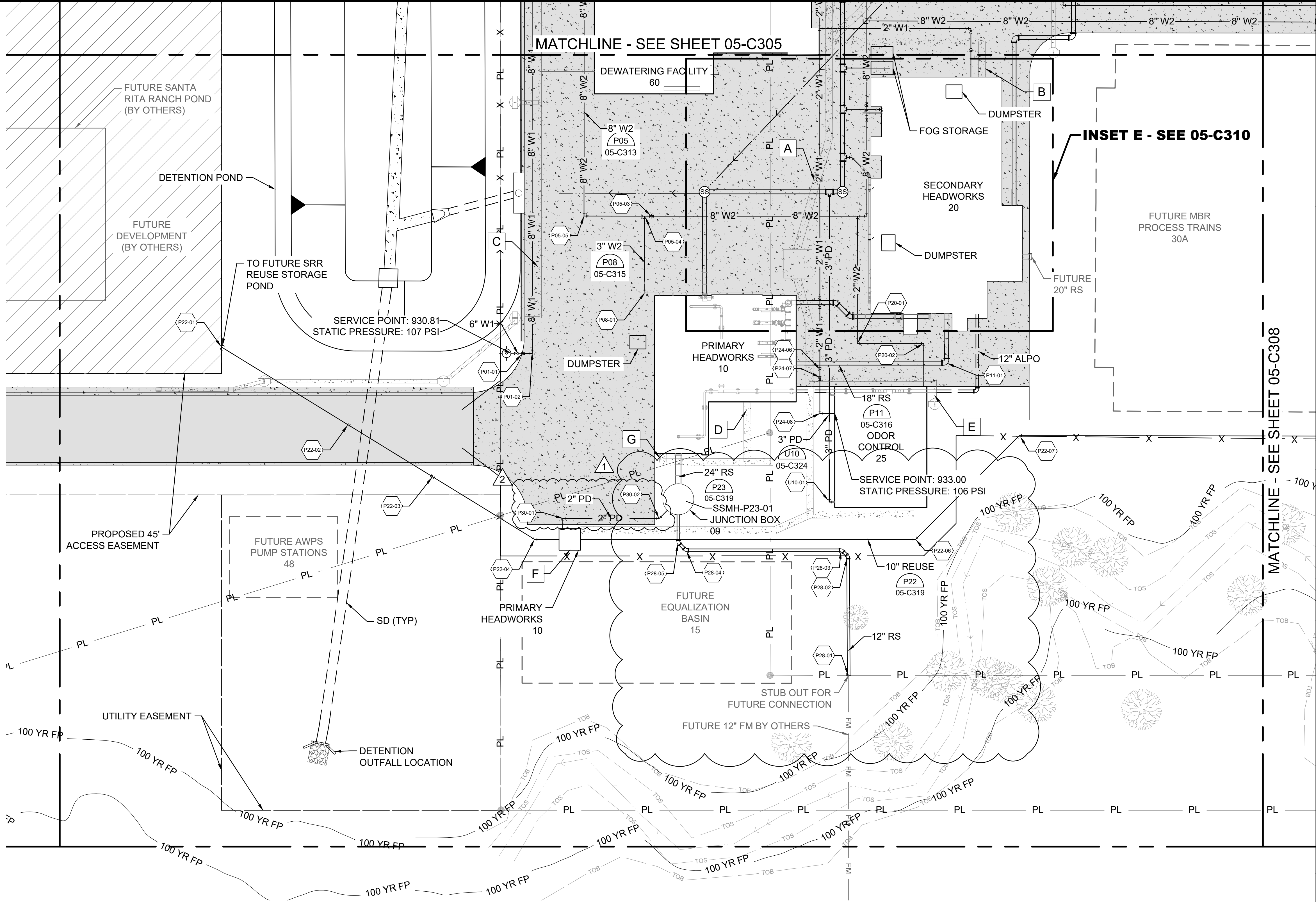
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Last plotted by: Garcia, Orlando Plot Style: AECmono.ctb Plot Date: 10/20/2026 4:08 PM Plotter used: None

YARD PIPING COORDINATES				
POINT #	NORTHING	EASTING	CENTERLINE ELEVATION	DESCRIPTION
P01-01	10217269.37	3079778.12	930.82	8" X 6" REDUCER
P01-02	10217265.81	3079778.22	930.82	8" 90° BEND
P05-04	10217225.52	3079830.22	930.84	8"X3" ROTATED TEE
P05-05	10217247.99	3079829.61	930.38	8" 90° ROTATED BEND
P08-01	10217224.74	3079801.77	933.04	3" 90° VERT. BEND
P11-01	10217112.03	3079778.76	933.00	18" 90° BEND
P20-01	10217145.34	3079785.18	930.00	2" 90° ROTATED BEND
P20-02	10217120.72	3079785.84	930.00	2" 90° BEND
P22-01	10217381.12	3079777.43	920.58	10" CAP
P22-02	10217333.31	3079749.88	920.58	10" 11.25° VERT. BEND
P22-03	10217301.45	3079731.52	926.38	10" 11.25° VERT. BEND
P22-04	10217263.06	3079709.26	926.45	10" 45° BEND
P22-06	10217121.83	3079713.09	926.45	10" 45° BEND
P22-07	10217084.42	3079752.59	926.45	10" 45° ROTATED BEND
P24-06	10217158.98	3079775.20	930.13	2" 45° VERT. BEND
P24-07	10217158.90	3079772.21	933.00	2" 45° VERT. BEND
P24-08	10217158.53	3079758.83	933.00	2" 90° BEND
P28-01	10217145.22	3079662.07	927.25	12" CAP
P28-02	10217146.61	3079706.12	929.13	12" 45° BEND
P28-03	10217149.09	3079708.35	929.75	12" 45° BEND
P28-04	10217206.87	3079706.78	930.06	12" 45° BEND
P28-05	10217209.71	3079709.47	931.00	12" 45° BEND
P30-01	10217252.83	3079717.31	932.50	2" 90° BEND
P30-02	10217217.08	3079718.24	932.50	2" 45° BEND
U10-01	10217154.50	3079726.59	933.50	3" 90° ROTATED BEND

STRUCTURE TABLE				
NAME	STATION	DESCRIPTION	NORTHING	EASTING
SSMH-P23-01	11+89.91	JUNCTION BOX	10217210.15	3079725.59

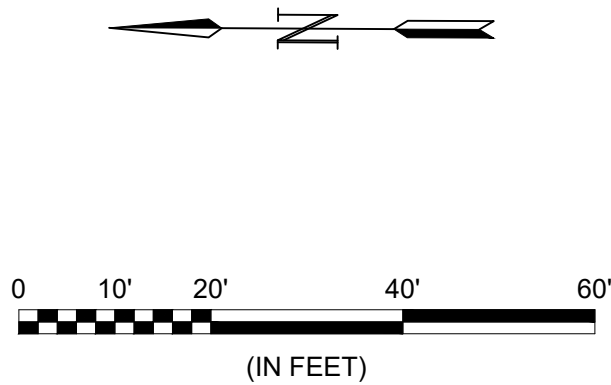
- A** PIPING KEYNOTES
- #** PIPING LAYOUT COORDINATES

- NOTES:**
- EXISTING PIPING IS SHOWN BASED ON AVAILABLE RECORD DRAWINGS AND INFORMATION PROVIDED TO THE ENGINEER. CONTRACTOR SHALL REVIEW EXISTING RECORD DRAWINGS AND FIELD VERIFY LOCATIONS AND DEPTHS OF ALL PERTINENT LINES PRIOR TO CONSTRUCTION.
 - PIPING ELEVATIONS ARE FOR CONTRACTOR'S BENEFIT. CONTRACTOR SHALL VERIFY ELEVATIONS IN FIELD.
 - FOR ELECTRICAL DUCT BANK INFORMATION SEE ELECTRICAL DRAWINGS.
 - ALL PIPES WITHIN 9 FEET HORIZONTAL OF A POTABLE WATER (W1) LINE MUST HAVE A MINIMUM 150 PSI PRESSURE CLASS.
 - PROPOSED 15' UTILITY EASEMENT IS BETWEEN THE SANTA RITA RANCH DEVELOPMENT AND THE CITY OF GEORGETOWN. CONTRACTOR SHALL COORDINATE WITH BOTH ENTITIES TO VERIFY FINAL EASEMENT LOCATION PRIOR TO CONSTRUCTION.
 - A PRIVATE PRV IS REQUIRED WHERE PRESSURES EXCEED 80 PSI.



PIPING KEYNOTES:

- A. ELECTRICAL DUCT BANK E.
- B. ELECTRICAL DUCT BANK E5.
- C. ELECTRICAL DUCT BANK H.
- D. ELECTRICAL DUCT BANK E11.
- E. ELECTRICAL DUCT BANK E9.
- F. FLOW METER VAULT 46.
- G. ELECTRICAL DUCT BANK E10.



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REGISTRATION NO. F-5713

BY	DESCRIPTION	DATE	REV	SJM	SJM
	ADDENDUM NO.3	09/11/26	1		
	ADDENDUM NO.6	10/02/26	2		

CITY OF LIBERTY HILL
3604 RONALD REAGAN BLVD.
LIBERTY HILL, TX

LIBERTY HILL - LEBRON CITY - SMALL TOWN

LIBERTY HILL NORTH FORK WWTP

PROPOSED YARD PIPING PLAN - ENLARGED 5

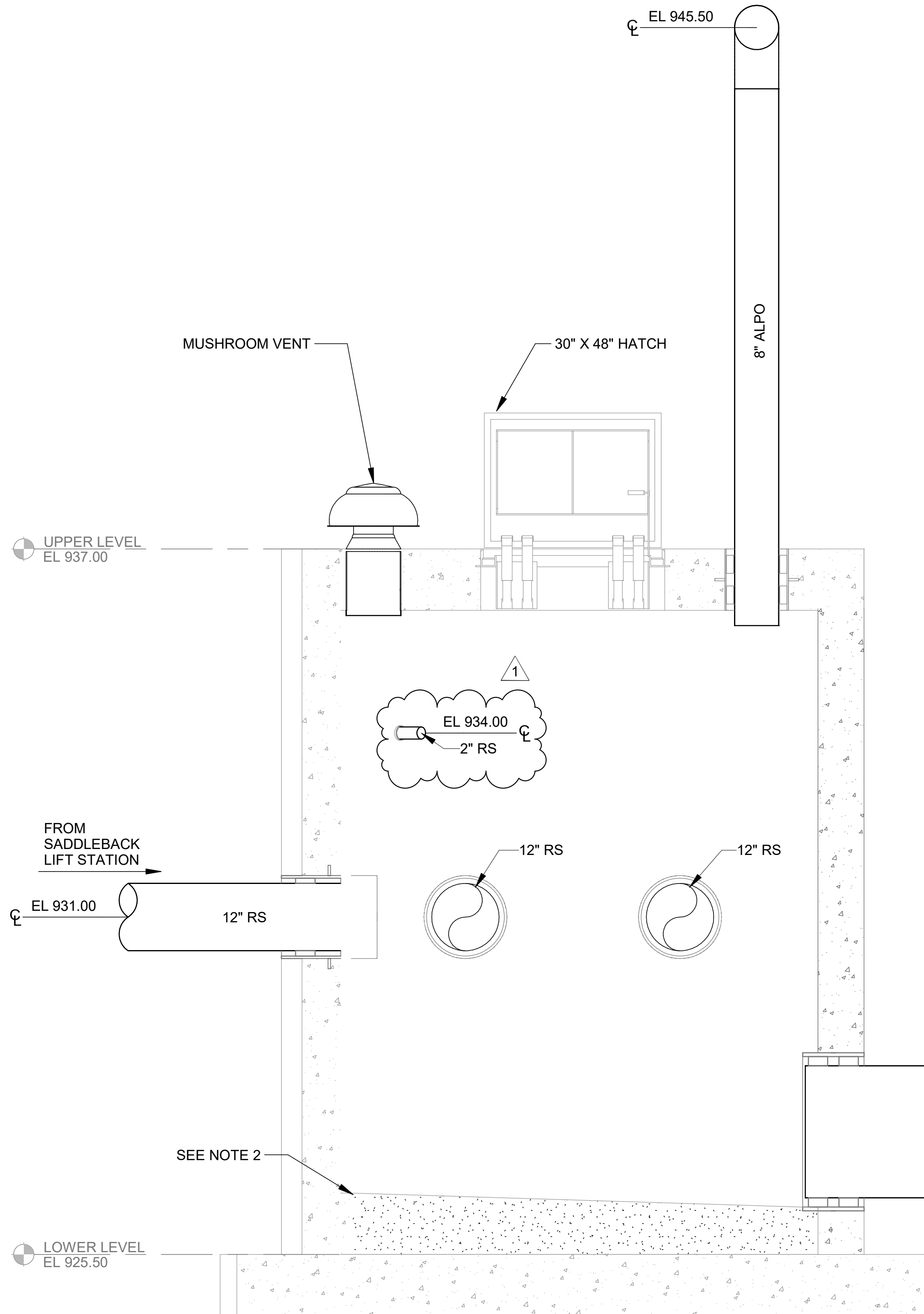
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DATE: SEPT. 2026
DESIGNED BY: SJM
DRAWN BY: OG
CHECKED BY: SJM

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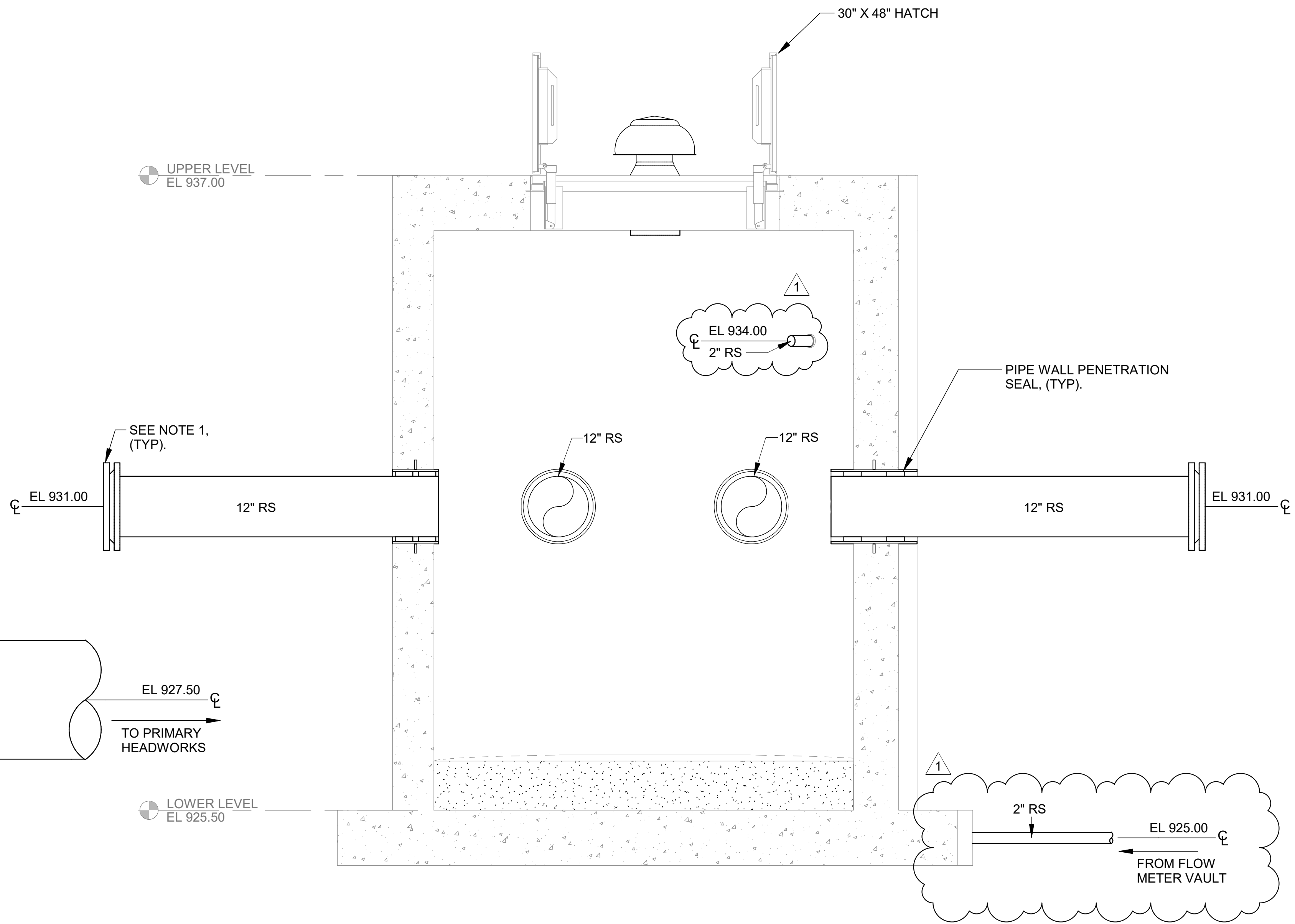
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1 JUNCTION BOX SECTION 1
09-P101 SCALE: 3/4" = 1'-0"



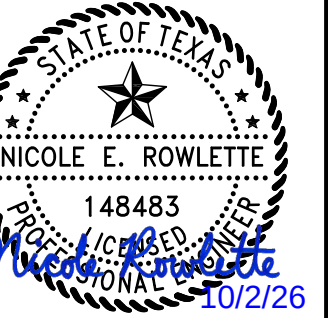
2 JUNCTION BOX SECTION 2
09-P101 SCALE: 3/4" = 1'-0"

- NOTE:**
1. CAP FOR FUTURE FORCE MAIN CONNECTION.
 2. SLOPE GROUT TOWARD 24" EFFLUENT PIPE
 3. CONTRACTOR SHALL HAVE PRECAST POLYMER CONCRETE STRUCTURE DESIGN AND SEALED BY A TEXAS PROFESSIONAL ENGINEER, PRECAST STRUCTURE SHALL INCLUDE A MINIMUM WALL THICKNESS OF 8" AND FLOOR THICKNESS OF 1'-0"



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F-5713



REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM NO. 6	NER



JUNCTION BOX
SECTIONS

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: SJC
DRAWN BY: JAG
CHECKED BY: NER

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DRAWING NUMBER
09-P301
SHEET
NUMBER **146**

Revit File: Autodeskt Docs\W07-2401219 - Liberty Hill North Fork WWTP Design\W07-2401219_30_PROCESS TRAINS_PROCESS.rvt
Plot Date: 10/2/2026 2:20:19 PM

NOTES:
1. DIFFUSERS NOT SHOWN IN AEROBIC ZONES FOR CLARITY



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F-5713



REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM NO. 6	NER



CITY OF LIBERTY HILL
LIBERTY HILL, TX
LIBERTY HILL NORTH FORK WWTP

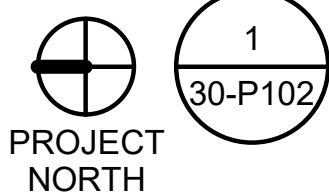
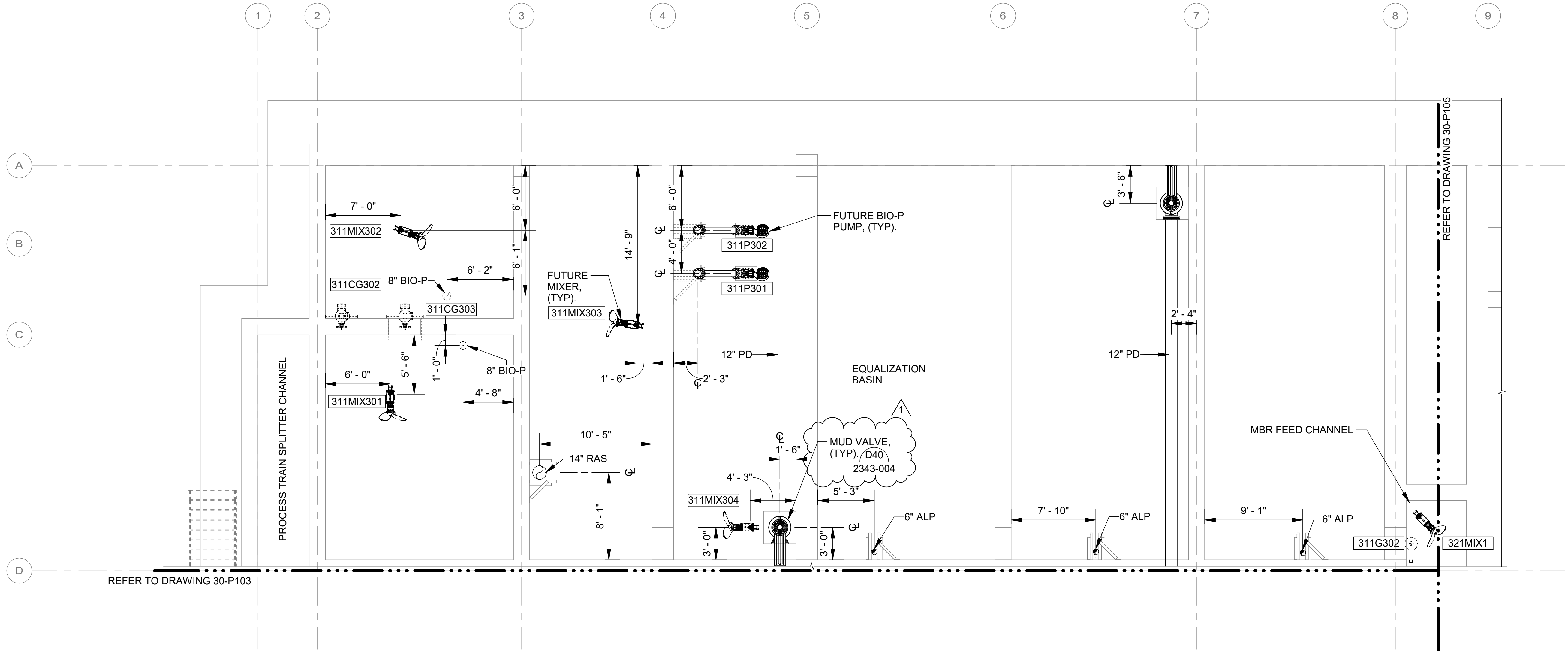
PROCESS TRAINS
LOWER LEVEL AREA
A

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

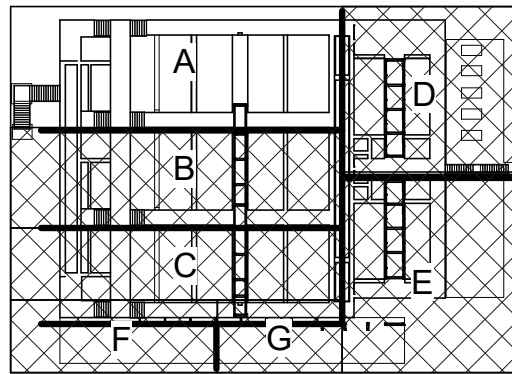
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DRAWING NUMBER
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SHEET
NUMBER **271**

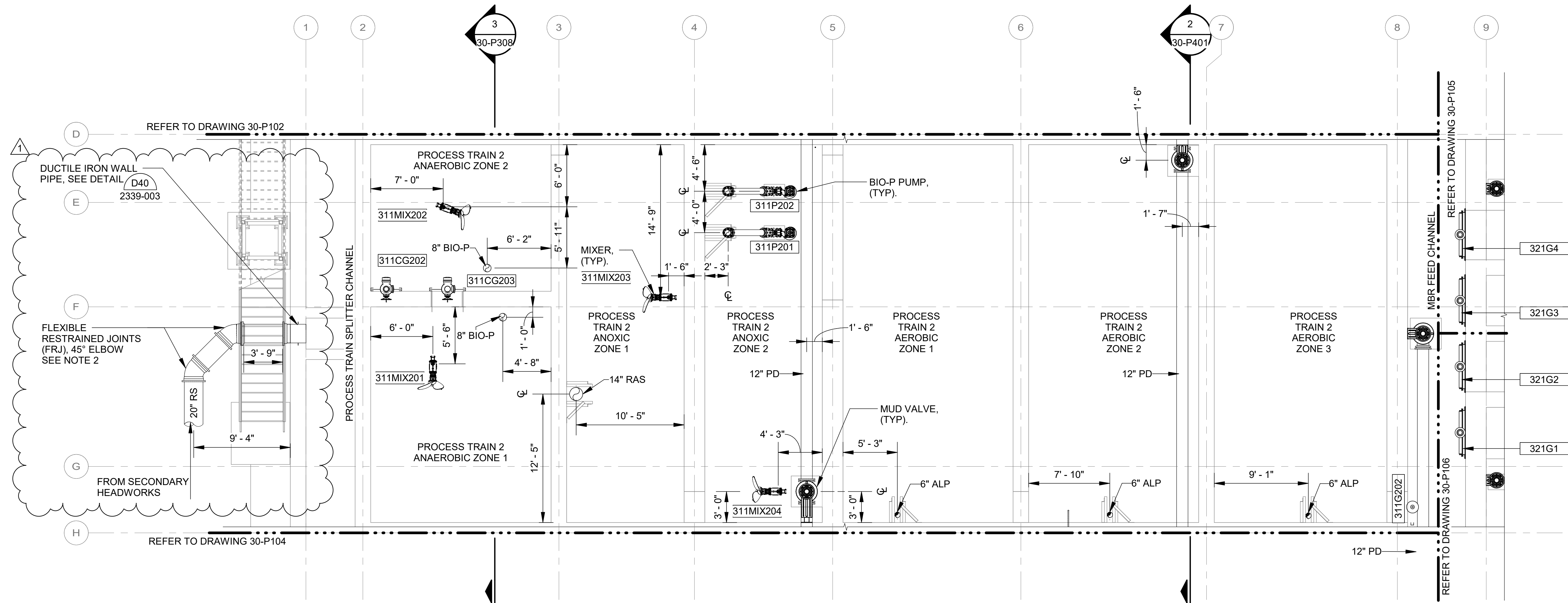


PROCESS TRAINS LOWER LEVEL - AREA A
SCALE: 3/16" = 1'-0"



KEY PLAN

Revit File: AutodesK Docs\W07-2401219 - Liberty Hill North Fork WWTP Design\W07-2401219_30_PROCESS TRAINS_PROCESS.rvt
Plot Date: 10/2/2026 2:20:37 PM



- NOTES:
1. DIFFUSERS NOT SHOWN IN AEROBIC ZONES FOR CLARITY.
 2. FLEXIBLE RESTRAINED JOINT TO BE U.S. PIPE HDSS OR AMERICAN FLEX-RING JOINT.



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REGISTRATION NO.
F-5713



REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM NO. 6	NER



CITY OF LIBERTY HILL
LIBERTY HILL, TX

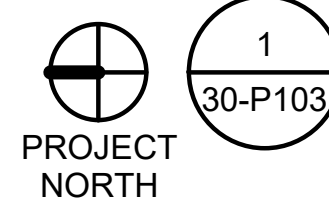
LIBERTY HILL NORTH FORK WWTP

PROCESS TRAINS
LOWER LEVEL AREA
B

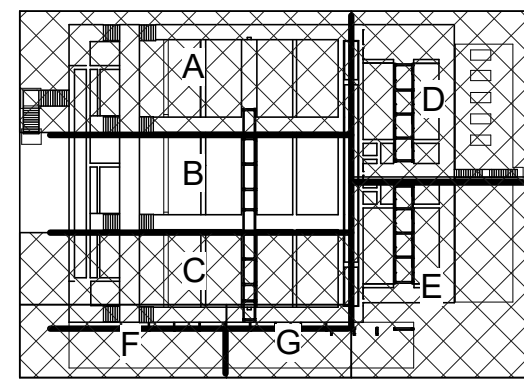
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DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

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SHEET
NUMBER **272**

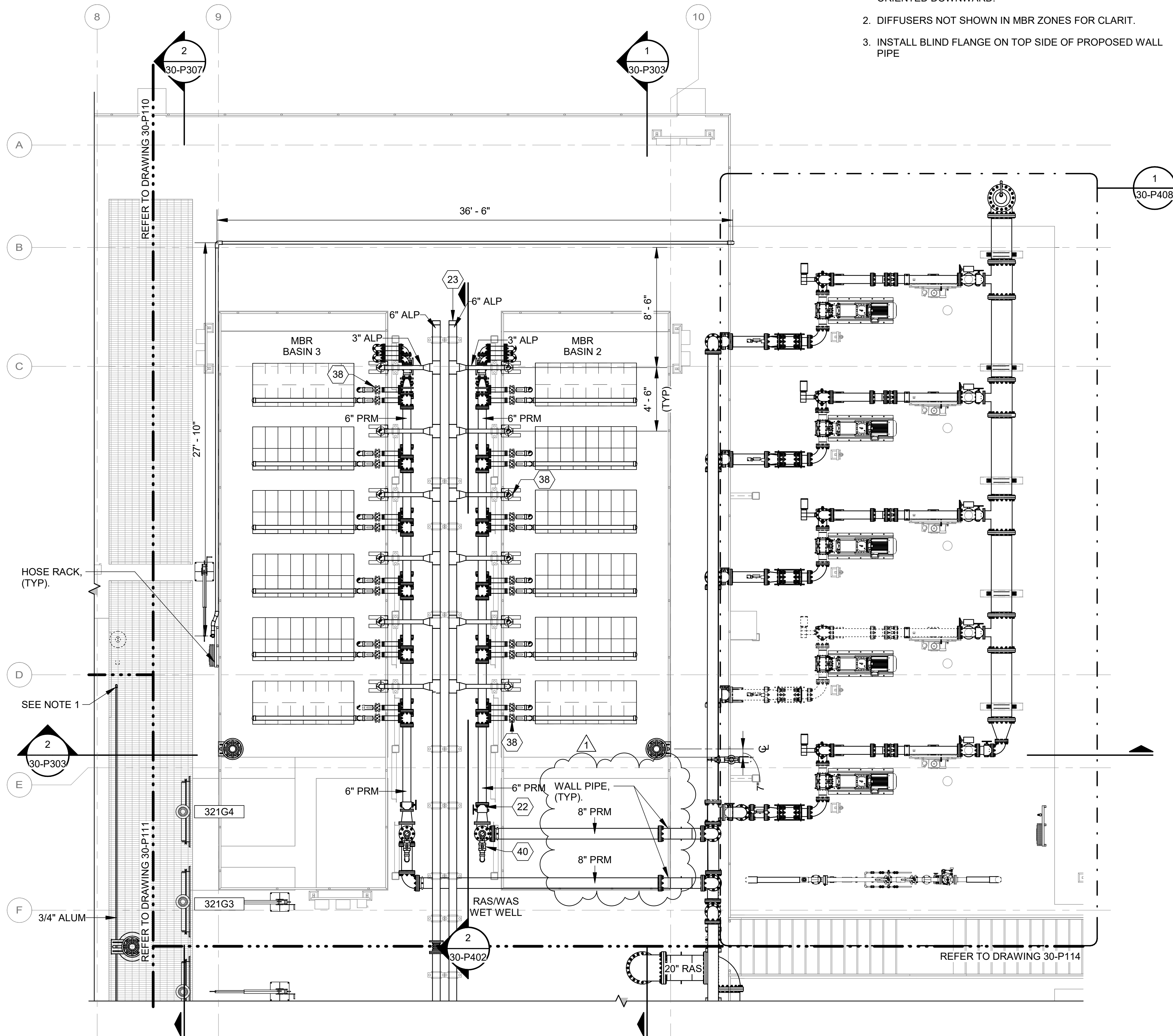


PROCESS TRAINS LOWER LEVEL - AREA B
SCALE: 3/16" = 1'-0"



KEY PLAN

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Plot Date: 10/2/2026 2:20:59 PM



- NOTES:
1. SPRAY BAR WITH 1/8" DIA ORIFICES SPACED EVERY 6" ORIENTED DOWNWARD.
 2. DIFFUSERS NOT SHOWN IN MBR ZONES FOR CLARIT.
 3. INSTALL BLIND FLANGE ON TOP SIDE OF PROPOSED WALL PIPE

KEYNOTES

22	6" BUTTERFLY VALVE - V500 (FLG x FLG)
23	6" CAP
38	3" BUTTERFLY VALVE - V500 (FLG x FLG)
40	3" BALL VALVE - V330 (SOC x SOC)



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REGISTRATION NO.
F-5713



BY	NER
DESCRIPTION	ADDENDUM NO. 6
DATE	10/02/26
REV	1



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

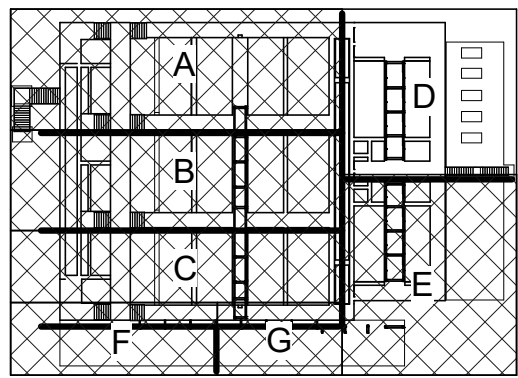
PROCESS TRAINS
UPPER LEVEL AREA D

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

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DRAWING NUMBER
30-P113

SHEET
NUMBER **282**



KEY PLAN

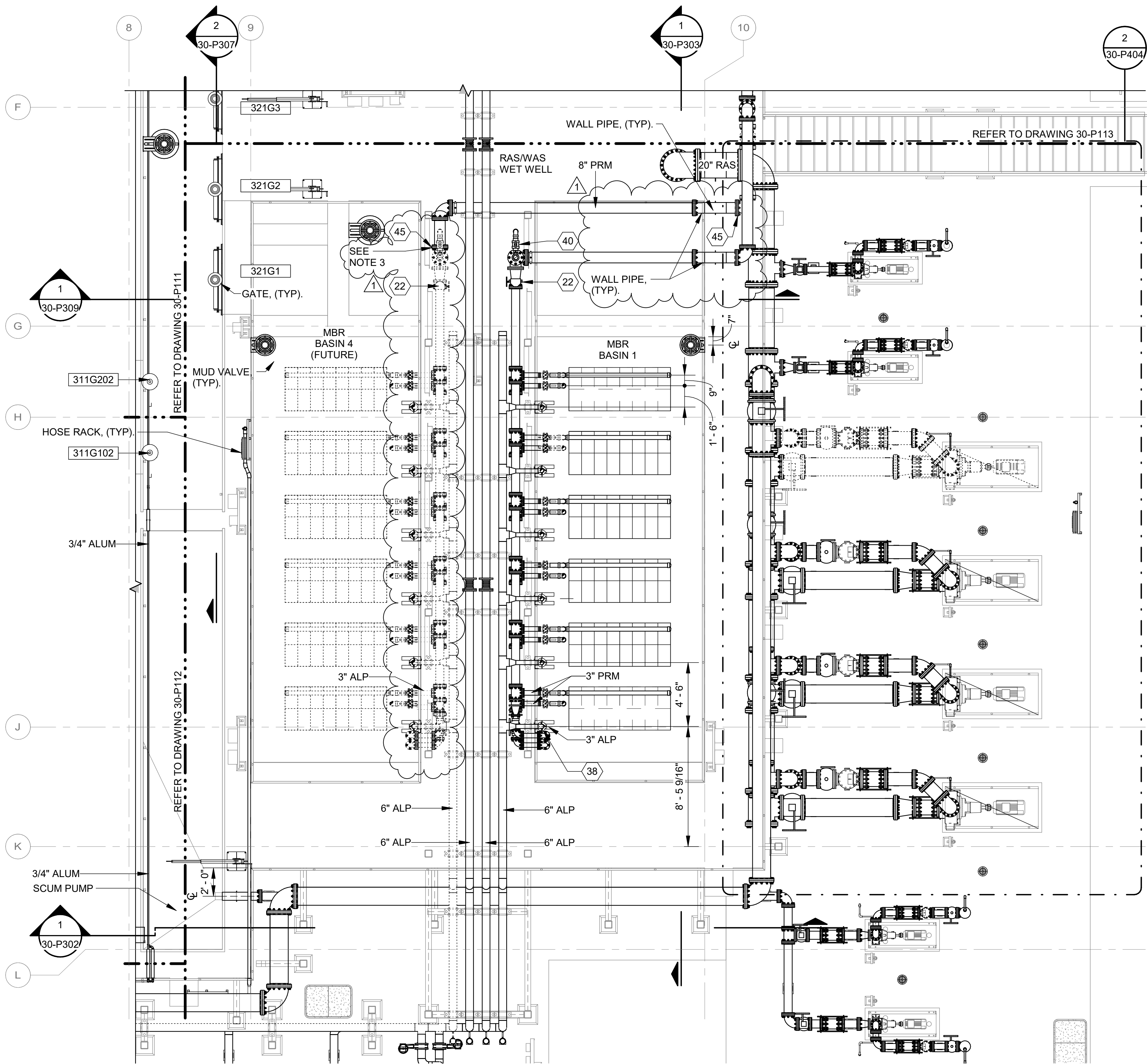
PROJECT NORTH

1
30-P113

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

PROCESS TRAINS UPPER LEVEL - AREA D

Revit File: Autodeskt Docs\W07-2401219 - Liberty Hill North Fork WWTP Design\W07-2401219_30_PROCESS TRAINS PROCESS.MXD
Plot Date: 10/2/2026 2:21:26 PM



KEYNOTES	
40	3" BALL VALVE - V330 (SOC x SOC)
45	8" BLIND (FLG)

- NOTES:
1. SPRAY BAR WITH 1/8" DIA ORIFICES SPACED EVERY 6" ORIENTED DOWNWARD.
 2. DIFFUSERS NOT SHOWN IN MBR ZONES FOR CLARIT.
 3. INSTALL BLIND FLANGE ON TOP SIDE OF PROPOSED WALL PIPE



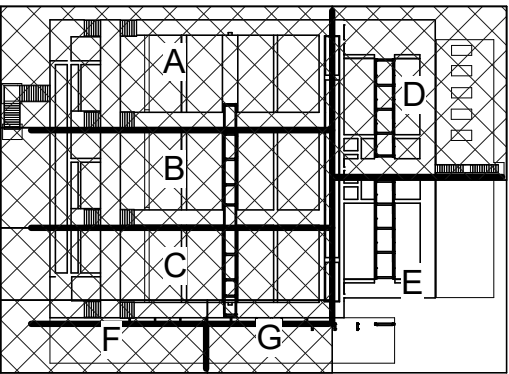
PROJECT
NORTH

1

30-P114

PROCESS TRAINS UPPER LEVEL - AREA E

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



KEY PLAN



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REGISTRATION NO.
F-5713



BY	NER
DESCRIPTION	ADDENDUM NO. 6
DATE	10/02/26
REV	1



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

PROCESS TRAINS
UPPER LEVEL AREA E

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

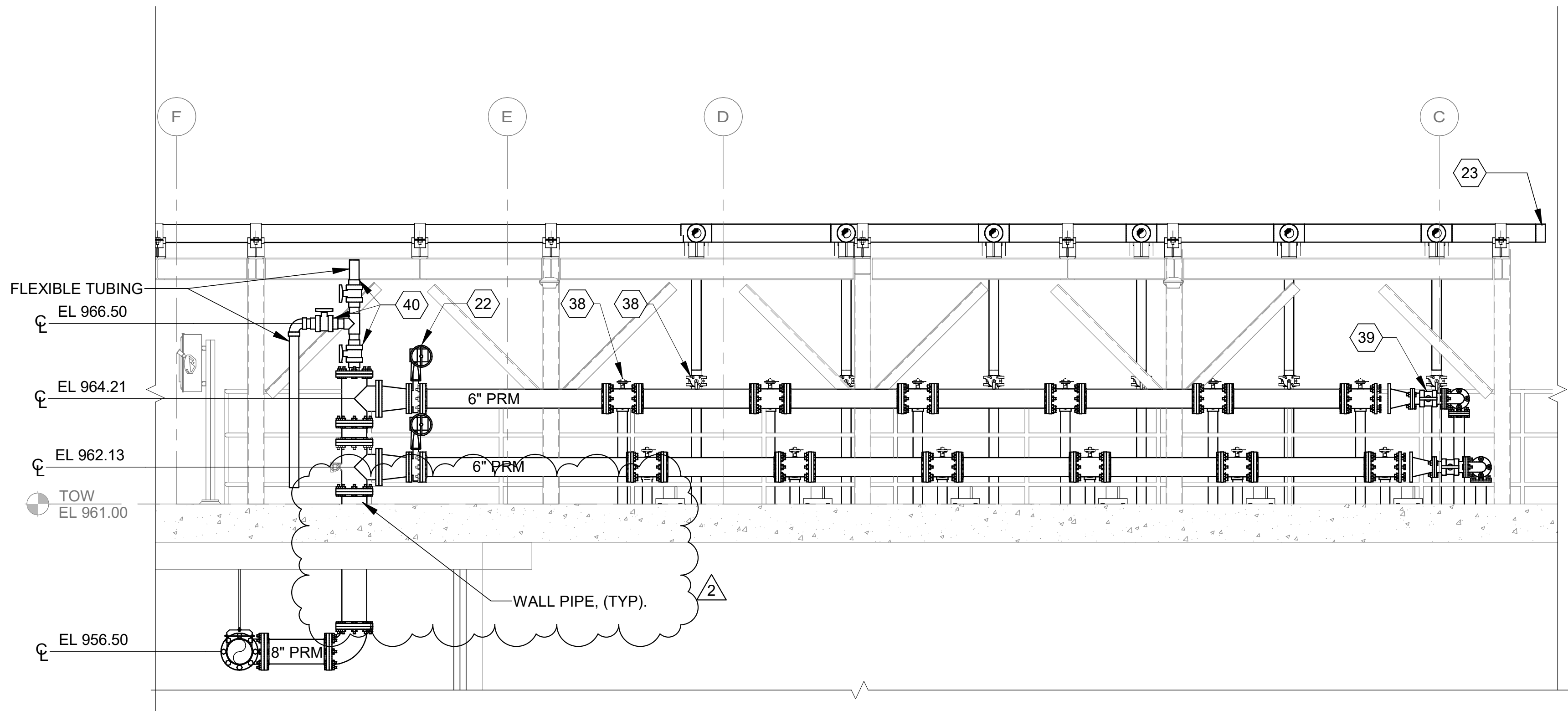
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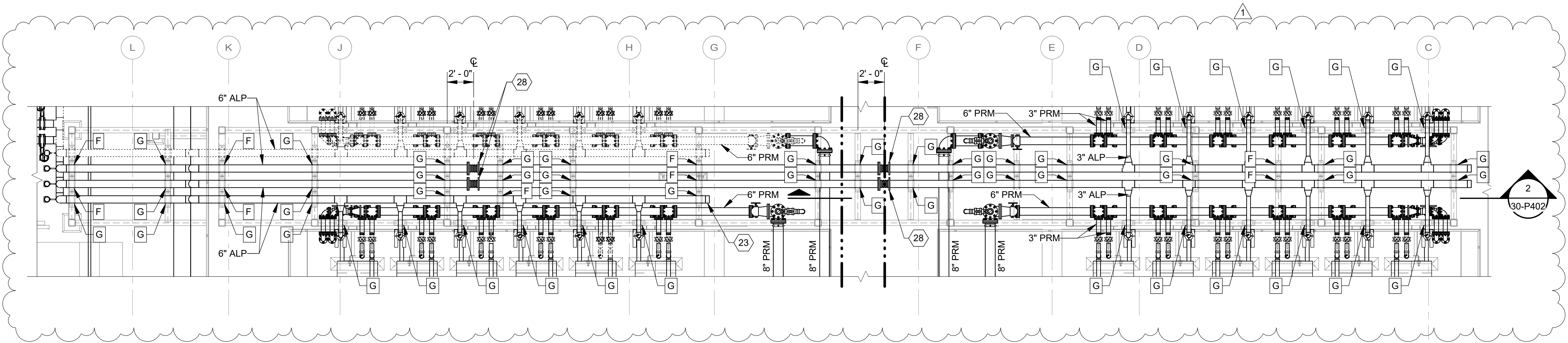
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SHEET NUMBER
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Plot Date: 10/2/2026 2:21:58 PM



2 MBR SUCTION HEADER
30-P113 SCALE: 3/8" = 1'-0"



1 ENLARGED AIR SCOUR PIPE SUPPORT PLAN
30-P402 SCALE: 1/4" = 1'-0"
PROJECT NORTH

KEYNOTES

22	6" BUTTERFLY VALVE - V500 (FLG x FLG)
23	6" CAP
28	6" EXPANSION JOINT (FLG x FLG)
30	6" THERMAL MASS FLOWMETER
38	3" BUTTERFLY VALVE - V500 (FLG x FLG)
39	3" BALL VALVE - V330 (FLG x FLG)
40	3" BALL VALVE - V330 (SOC x SOC)
45	8" BLIND (FLG)

NOTES:

- DIFFUSERS NOT SHOWN FOR CLARITY
- GUIDING SUPPORT SHALL BE A STAINLESS STEEL SADDLE PIPE SUPPORT WITH A PTFE SLIDE PLATE AND A STAINLESS STEEL U-BOLT WITH A 1/4" GAP ON ALL SIDES UNLESS NOTED OTHERWISE.
- FIXED SUPPORT SHALL BE A STAINLESS STEEL PIPE SUPPORT WELDED TO THE PIPE TO PREVENT LATERAL AND AXIAL MOVEMENT OF THE PIPE.
- SEE SECTION 40 05 07 FOR ADDITIONAL PIPE SUPPORT REQUIREMENTS.

PIPE SUPPORT LEGEND:

F	FIXED SUPPORT
G	GUIDING SUPPORT



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REGISTRATION NO.
F-5713



REV	DATE	DESCRIPTION	BY
1	09/18/26	ADDENDUM NO. 4	NER
2	10/02/26	ADDENDUM NO. 6	NER



CITY OF LIBERTY HILL
LIBERTY HILL, TX
LIBERTY HILL NORTH FORK WWTP

AIR PIPE SUPPORT
ENLARGED PLAN 2

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

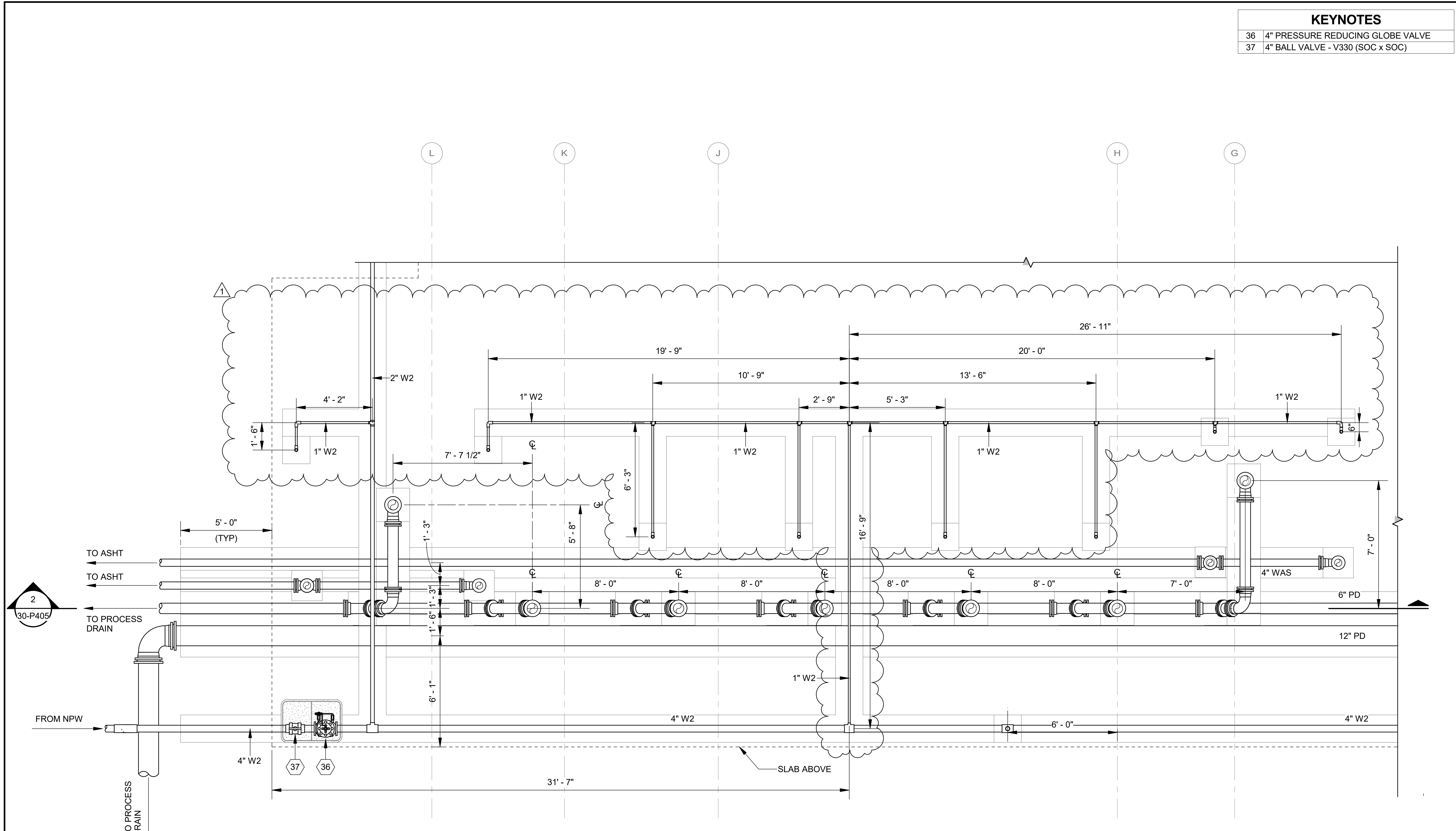
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DRAWING NUMBER

30-P402

SHEET
NUMBER **297**

Revit File: Autodeskt Docs\W07-2401219 - Liberty Hill North Fork WWTP Design\W07-2401219_30_PROCESS TRAINS_PROCESS.MXD
Plot Date: 10/2/2026 2:22:10 PM



KEYNOTES	
36	4" PRESSURE REDUCING GLOBE VALVE
37	4" BALL VALVE - V330 (SOC x SOC)

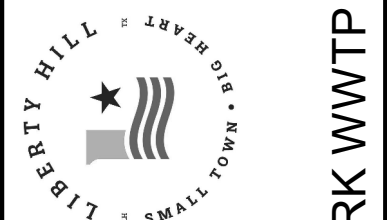


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F-5713



BY	NER		
DESCRIPTION	ADDENDUM NO. 6		
DATE	10/02/26		
REV	1		



CITY OF LIBERTY HILL
LIBERTY HILL, TX

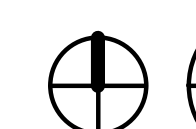
LIBERTY HILL NORTH FORK WWTP

RAS/WAS PUMP
STATION UNDERSLAB
PLAN

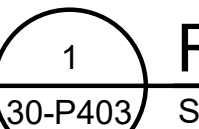
JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

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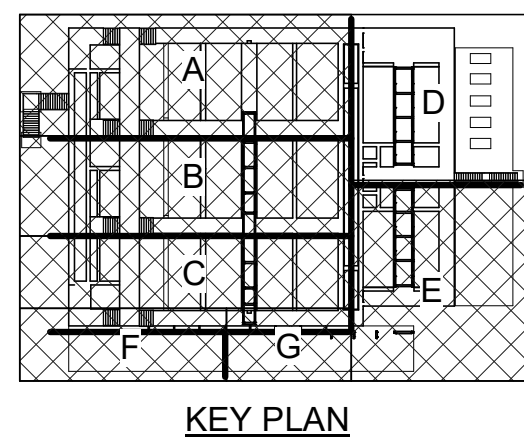
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30-P403
SHEET
NUMBER **298**



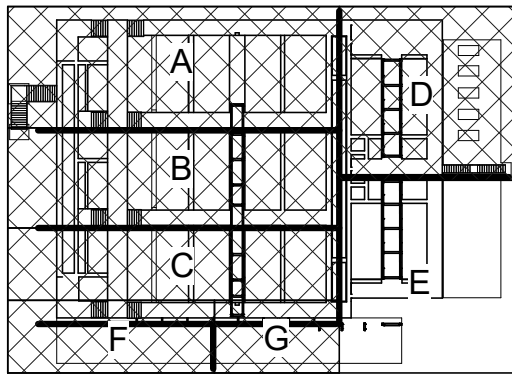
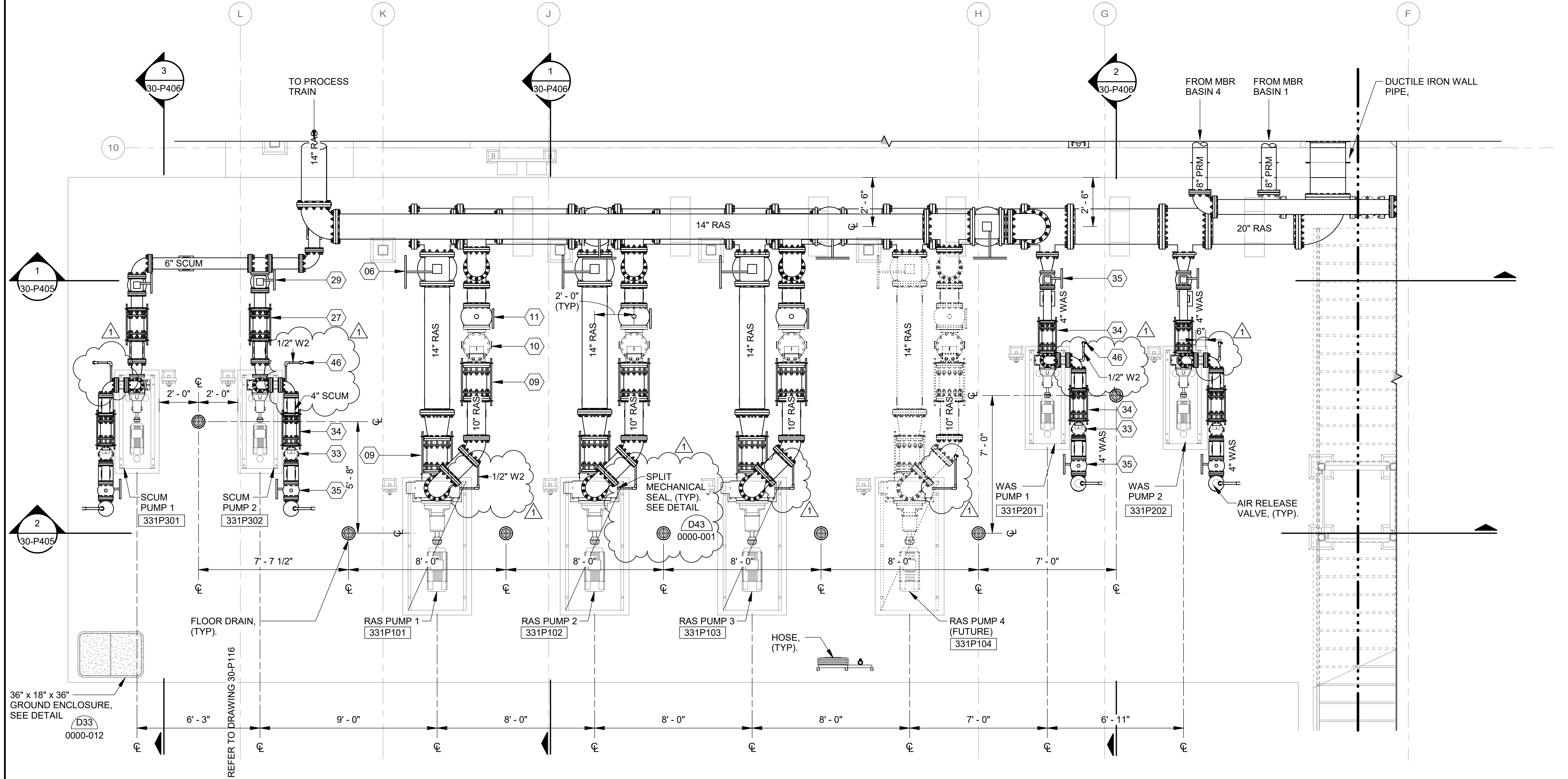
PROJECT
NORTH



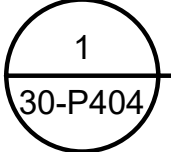
RAS/WAS PUMP STATION UNDERSLAB
SCALE: 3/8" = 1'-0"



Revit File: Autodeskt Docs\W07-2401219 - Liberty Hill North Fork WWTP Design\W07-2401219_30_PROCESS TRAINS_PROCESS.rvt
Plot Date: 10/2/2026 2:22:11 PM



KEY PLAN



RAS/WAS PUMP STATION
SCALE: 3/8" = 1'-0"

KEYNOTES

01	20" BLIND (FLG)
06	14" PLUG VALVE - V406 (FLG x FLG)
09	10" EQUIPMENT CONNECTION FITTING (FLG x FLG)
10	10" CHECK VALVE - V605 (FLG x FLG)
11	10" PLUG VALVE - V405 (FLG x FLG)
27	6" EQUIPMENT CONNECTION FITTING (FLG x FLG)
29	6" PLUG VALVE - V405 (FLG x FLG)
33	4" CHECK VALVE - V605 (FLG x FLG)
34	4" EQUIPMENT CONNECTION FITTING (FLG x FLG)
35	4" PLUG VALVE - V405 (FLG x FLG)
45	8" BLIND (FLG)
46	1/2" BALL VALVE - V330 (SOC x SOC)



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F-5713



BY	NER
DESCRIPTION	ADDENDUM NO. 6
DATE	10/02/26
REV	1



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

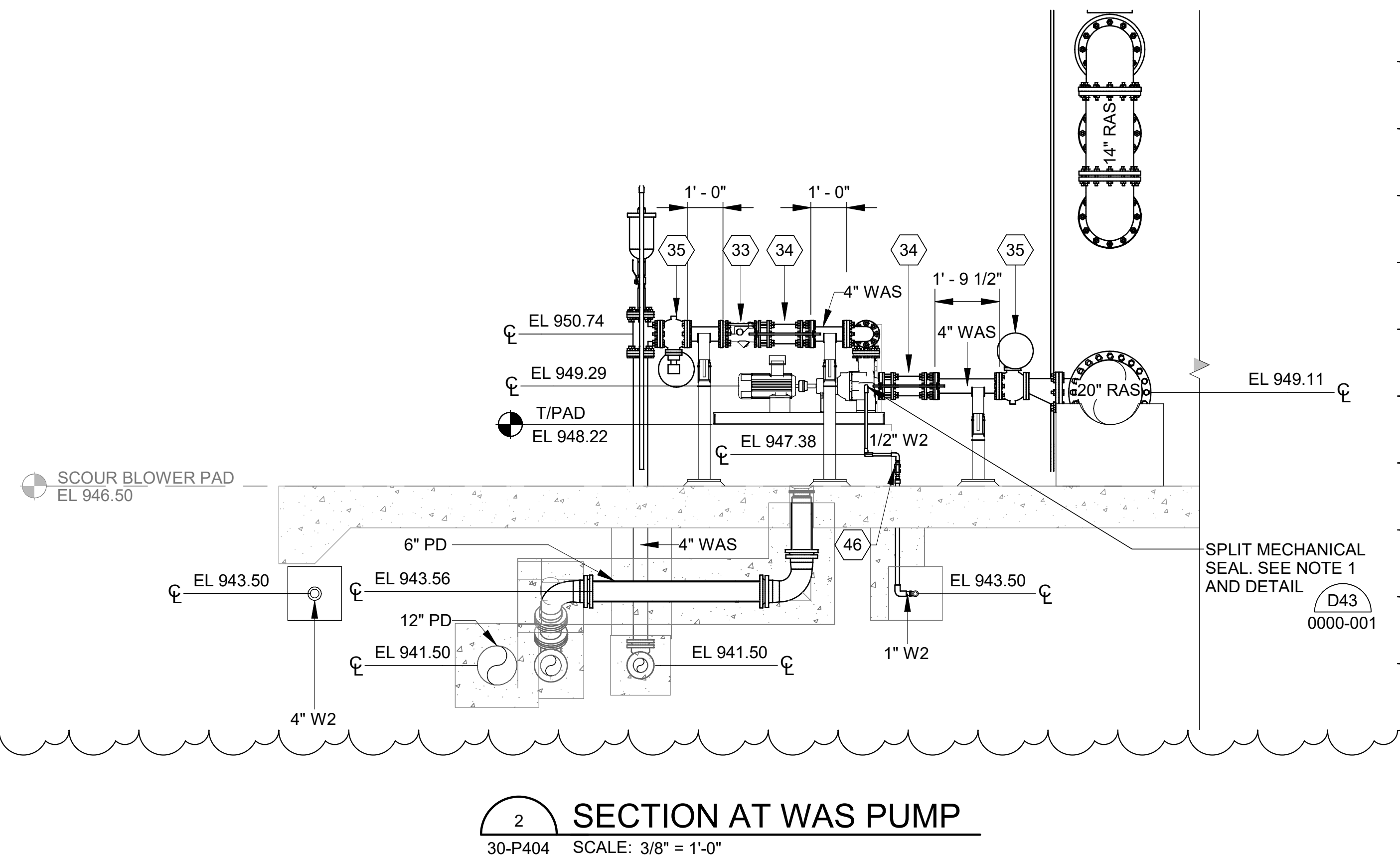
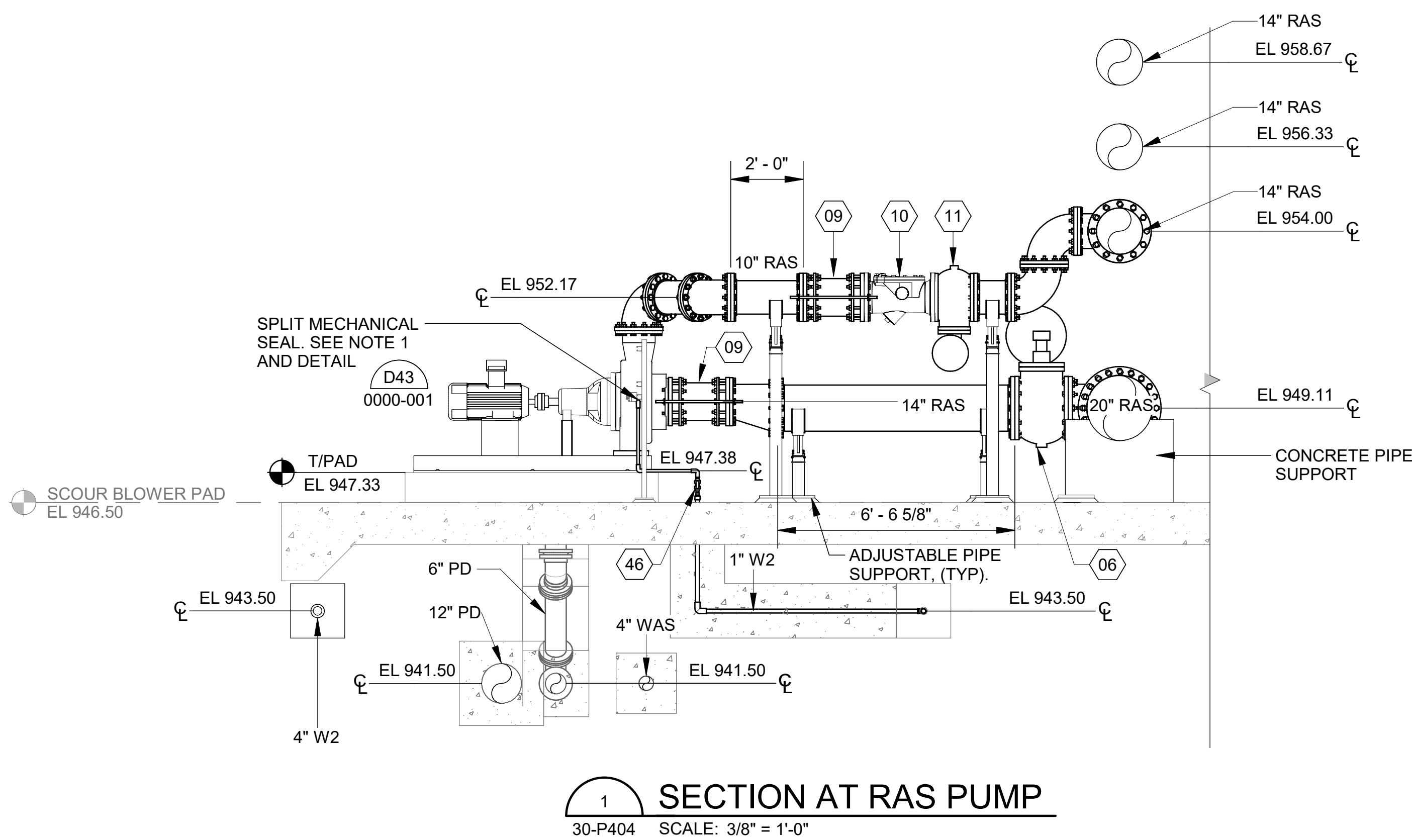
RAS/WAS PUMP
STATION PLAN

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

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30-P404
SHEET
NUMBER **299**

Revit File: Autodeskt Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_30_PROCESS TRAINS_PROCESS.rvt
Plot Date: 10/2/2026 2:22:35 PM

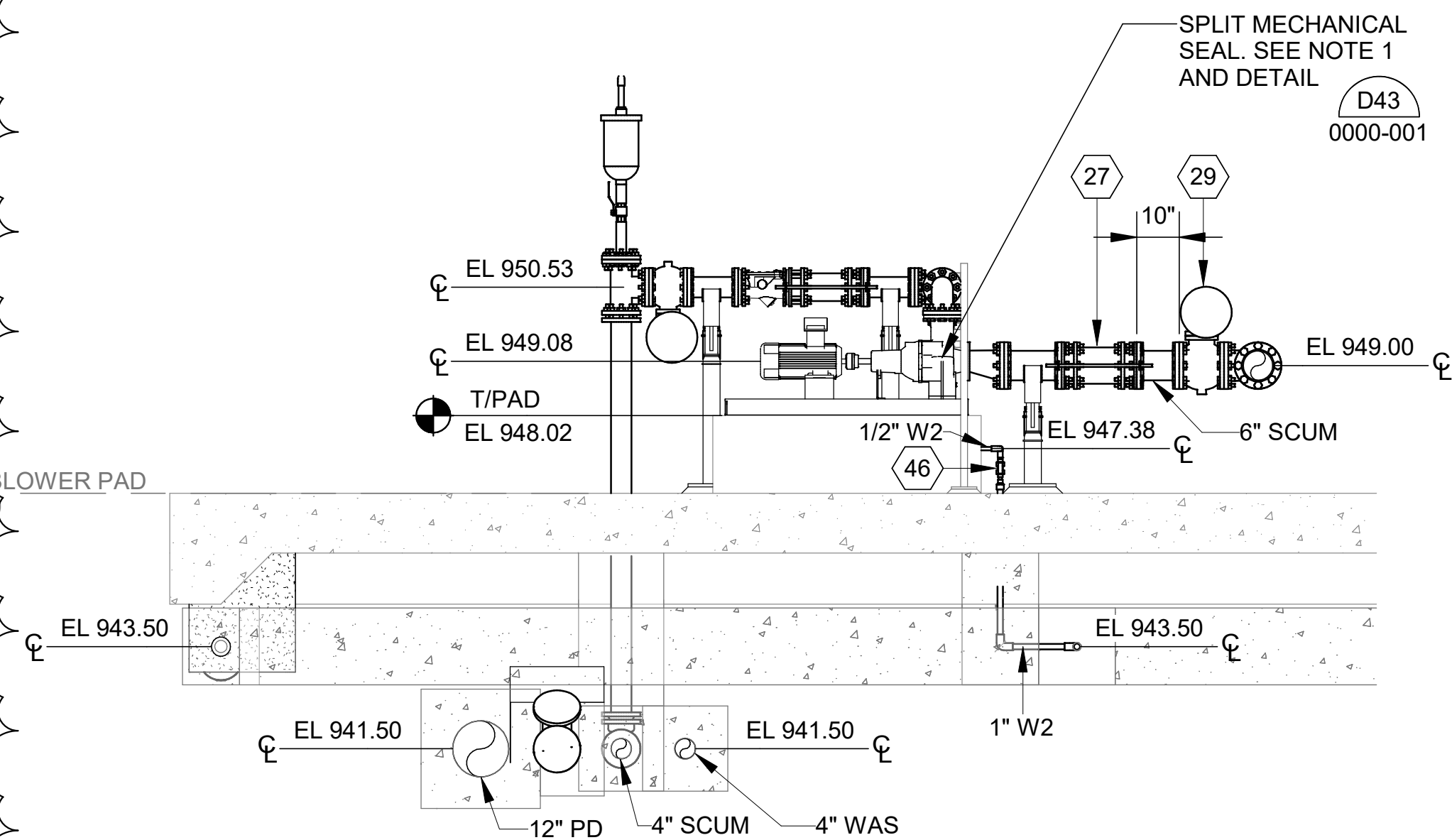


NOTES:

1. COORDINATE MECHANICAL SEAL FLUSH CONNECTION WITH SELECTED PUMP MANUFACTURER

KEYNOTES

01	20" BLIND (FLG)
06	14" PLUG VALVE - V406 (FLG x FLG)
09	10" EQUIPMENT CONNECTION FITTING (FLG x FLG)
10	10" CHECK VALVE - V605 (FLG x FLG)
11	10" PLUG VALVE - V405 (FLG x FLG)
27	6" EQUIPMENT CONNECTION FITTING (FLG x FLG)
29	6" PLUG VALVE - V405 (FLG x FLG)
33	4" CHECK VALVE - V605 (FLG x FLG)
34	4" EQUIPMENT CONNECTION FITTING (FLG x FLG)
35	4" PLUG VALVE - V405 (FLG x FLG)
36	4" PRESSURE REDUCING GLOBE VALVE
37	4" BALL VALVE - V330 (SOC x SOC)
46	1/2" BALL VALVE - V330 (SOC x SOC)



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BY	NER			
DESCRIPTION	ADDENDUM NO. 6			
DATE	10/02/26			
REV	1			



CITY OF LIBERTY HILL
LIBERTY HILL, TX
LIBERTY HILL NORTH FORK WWTP

RAS/WAS PUMP
STATION SECTIONS

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

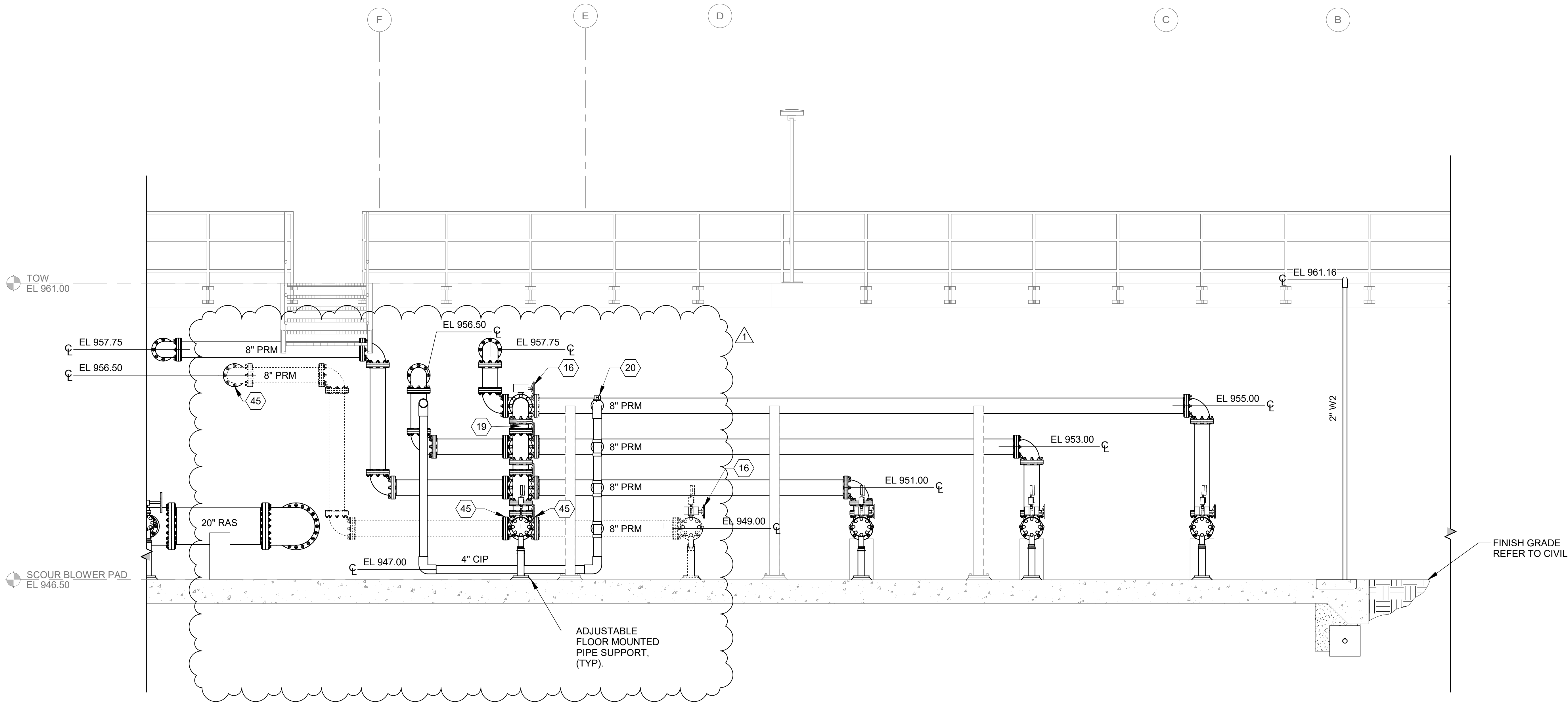
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DRAWING NUMBER

30-P406

SHEET NUMBER **301**

Revit File: Autodeskt Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_30_PROCESS TRAINS_PROCESS.Mt
Plot Date: 10/2/2026 2:22:42 PM



KEYNOTES

16	8" BUTTERFLY VALVE - V500 (FLG x FLG)
18	8" EQUIPMENT CONNECTION FITTING (FLG x FLG)
19	8" FLANGE FILLER
20	8" TAPPING SADDLE
21	8" x 6" ECCENTRIC REDUCER (FLG x FLG)
40	3" BALL VALVE - V330 (SOC x SOC)
41	2" BALL VALVE - V330 (SOC x SOC)
45	8" BLIND (FLG)



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REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM NO. 6	NER



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

PERMEATE PUMP
STATION SECTIONS

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

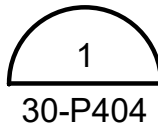
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30-P409

SHEET
NUMBER **304**

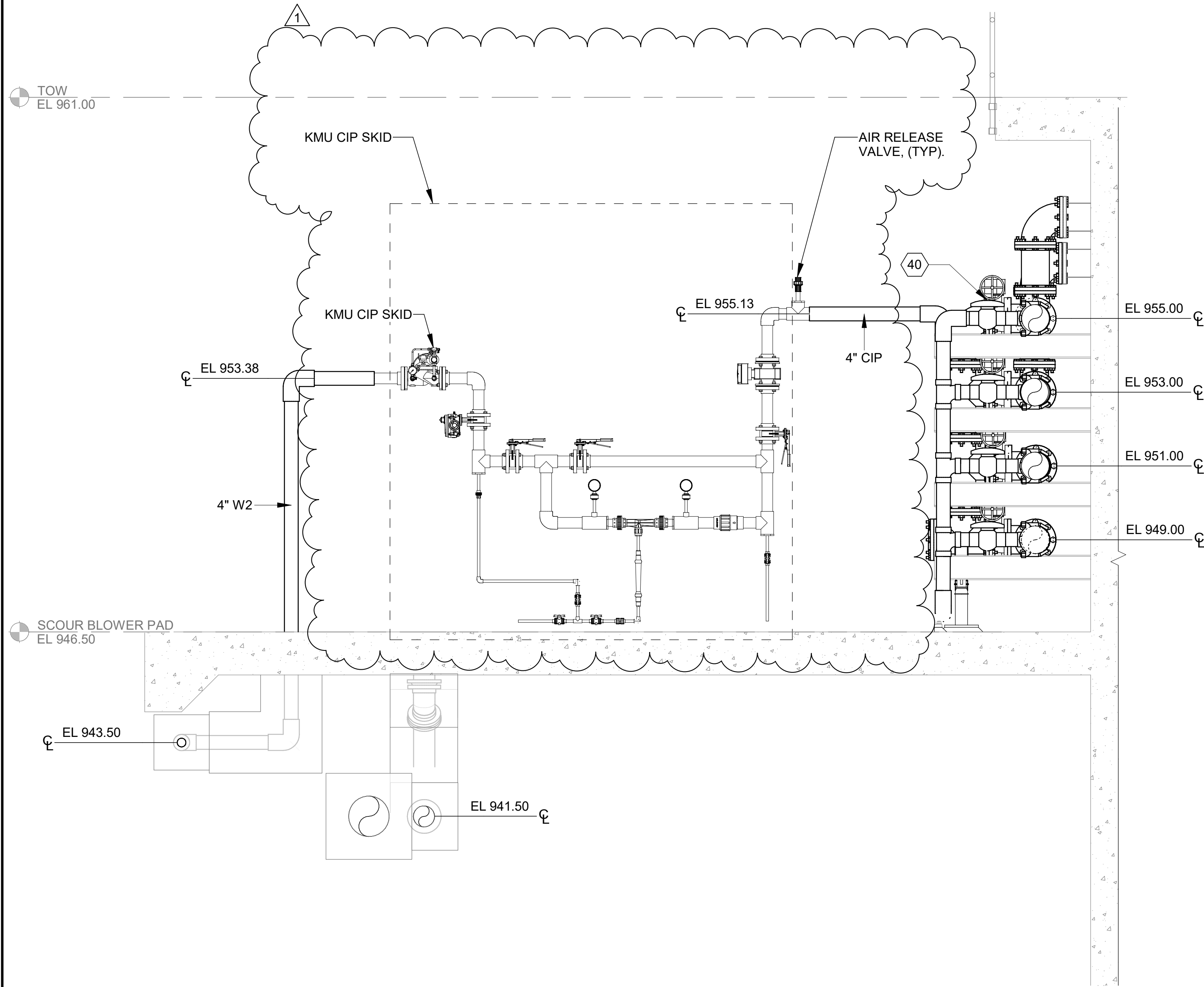


SECTION AT PERMEATE PUMPS

30-P404

SCALE: 3/8" = 1'-0"

Revit File: AutodesK Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_30_PROCESS TRAINS_PROCESS.rvt
Plot Date: 10/2/2026 2:22:50 PM



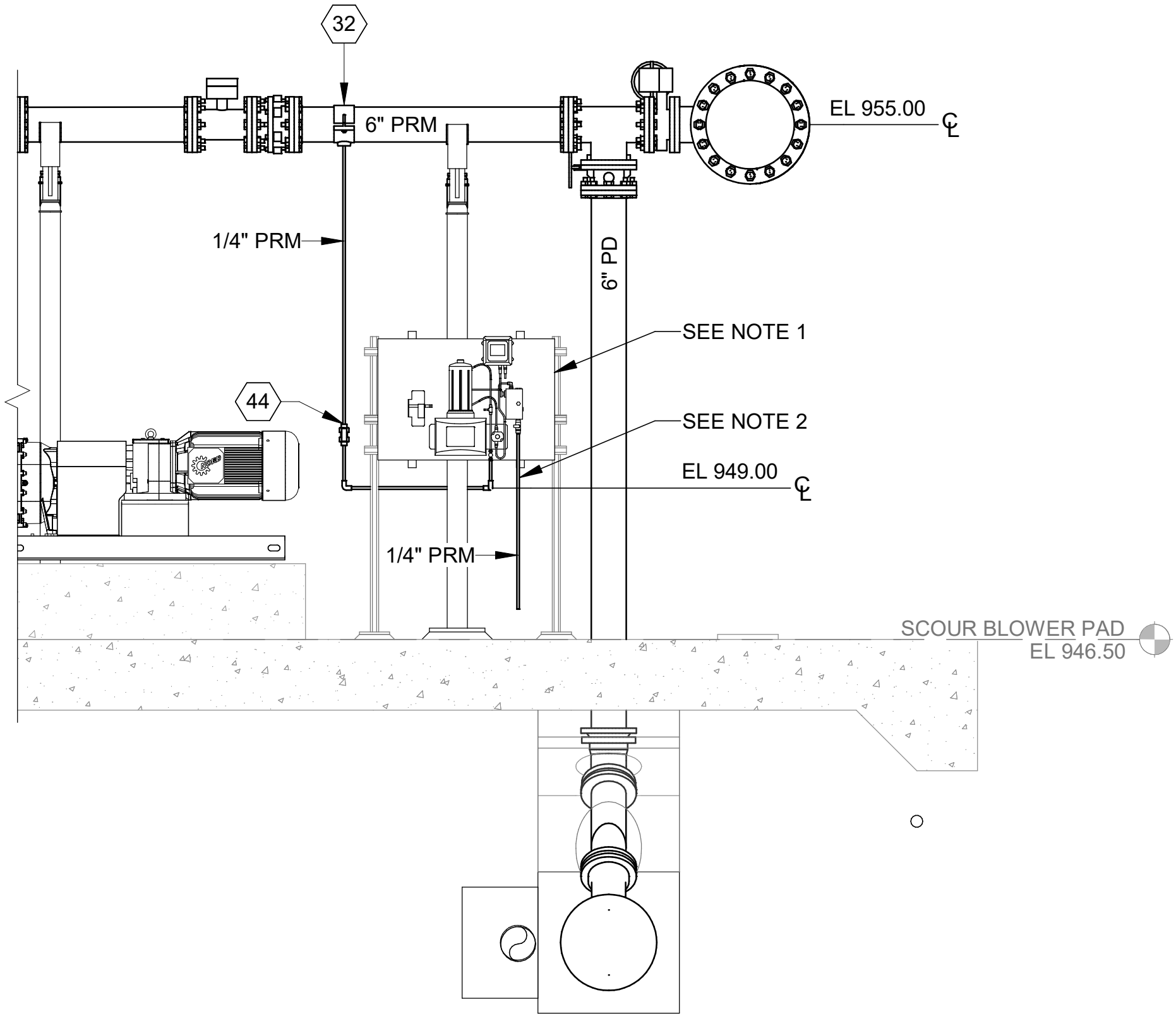
1 CLEAN IN PLACE SKID MOUNT
30-P407 SCALE: 1/2" = 1'-0"

NOTES:

- TU5300SC LOW RANGE LASER TURBIDIMETER (EPA VERSION) WITH FLOW SENSOR TO BE PROVIDED BY MBR VENDOR
- HACH 1/4" LZy911 FLEXIBLE POLYETHYLENE PIPING FOR THE TU5 SERIES TUBIDIMETER

KEYNOTES

32	6" TAPPING SADDLE
40	3" BALL VALVE - V330 (SOC x SOC)
44	1/4" BALL VALVE - V330 (SOC x SOC)



2 TURBIDITY METER SETUP
30-P407 SCALE: 1/2" = 1'-0"



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REGISTRATION NO.
F-5713



BY	DESCRIPTION	DATE	REV
NER	ADDENDUM NO. 6	10/02/26	1



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

PERMEATE PUMP
STATION SECTIONS

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: AOL
DRAWN BY: CIW
CHECKED BY: NER

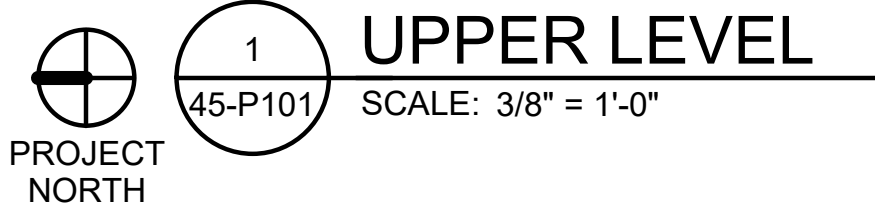
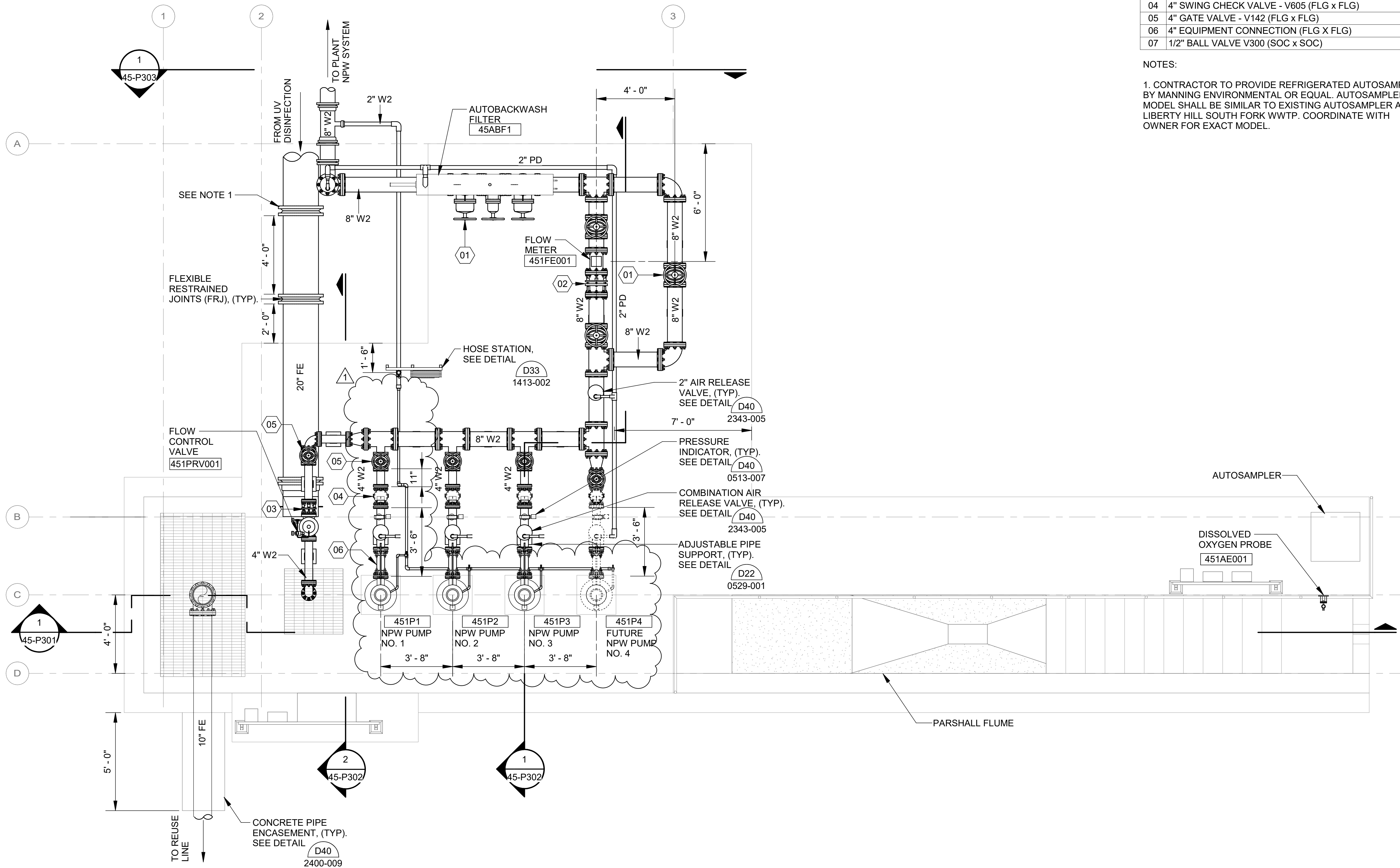
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DRAWING NUMBER

30-P411

SHEET
NUMBER **306**

Revit File: AutodesK Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_45_EFFLUENT FACILITY_PROCESS.rvt
Plot Date: 10/2/2026 1:39:42 PM



KEYNOTES

01	8" GATE VALVE - V142 (FLG x FLG)
02	8" DISMANTLING JOINT (FLG x FLG)
03	4" DISMANTLING JOINT (FLG x FLG)
04	4" SWING CHECK VALVE - V605 (FLG x FLG)
05	4" GATE VALVE - V142 (FLG x FLG)
06	4" EQUIPMENT CONNECTION (FLG X FLG)
07	1/2" BALL VALVE V300 (SOC x SOC)

NOTES:

1. CONTRACTOR TO PROVIDE REFRIGERATED AUTOSAMPLER BY MANNING ENVIRONMENTAL OR EQUAL. AUTOSAMPLER MODEL SHALL BE SIMILAR TO EXISTING AUTOSAMPLER AT LIBERTY HILL SOUTH FORK WWTP. COORDINATE WITH OWNER FOR EXACT MODEL.



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REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM NO. 6	NER



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

EFFLUENT PLAN VIEW

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: SJC
DRAWN BY: MAR
CHECKED BY: NER

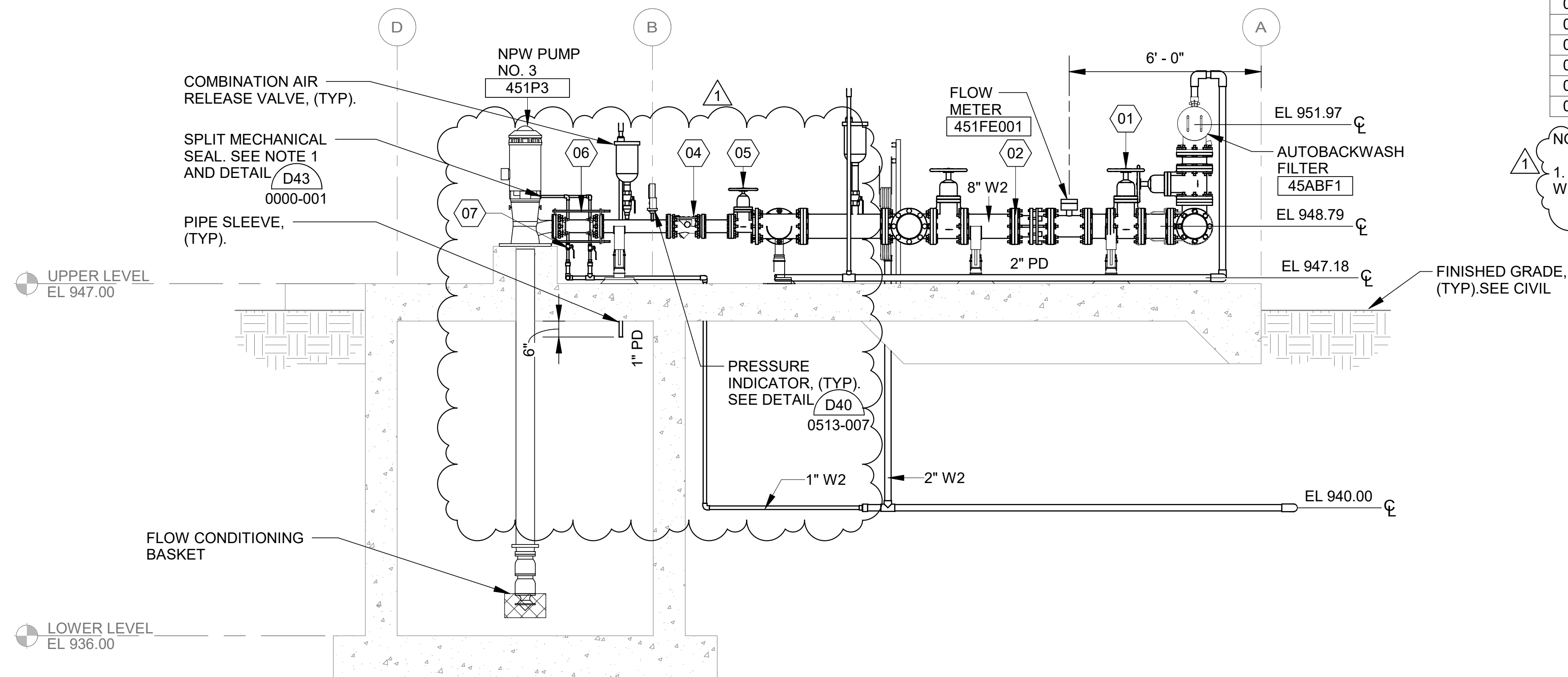
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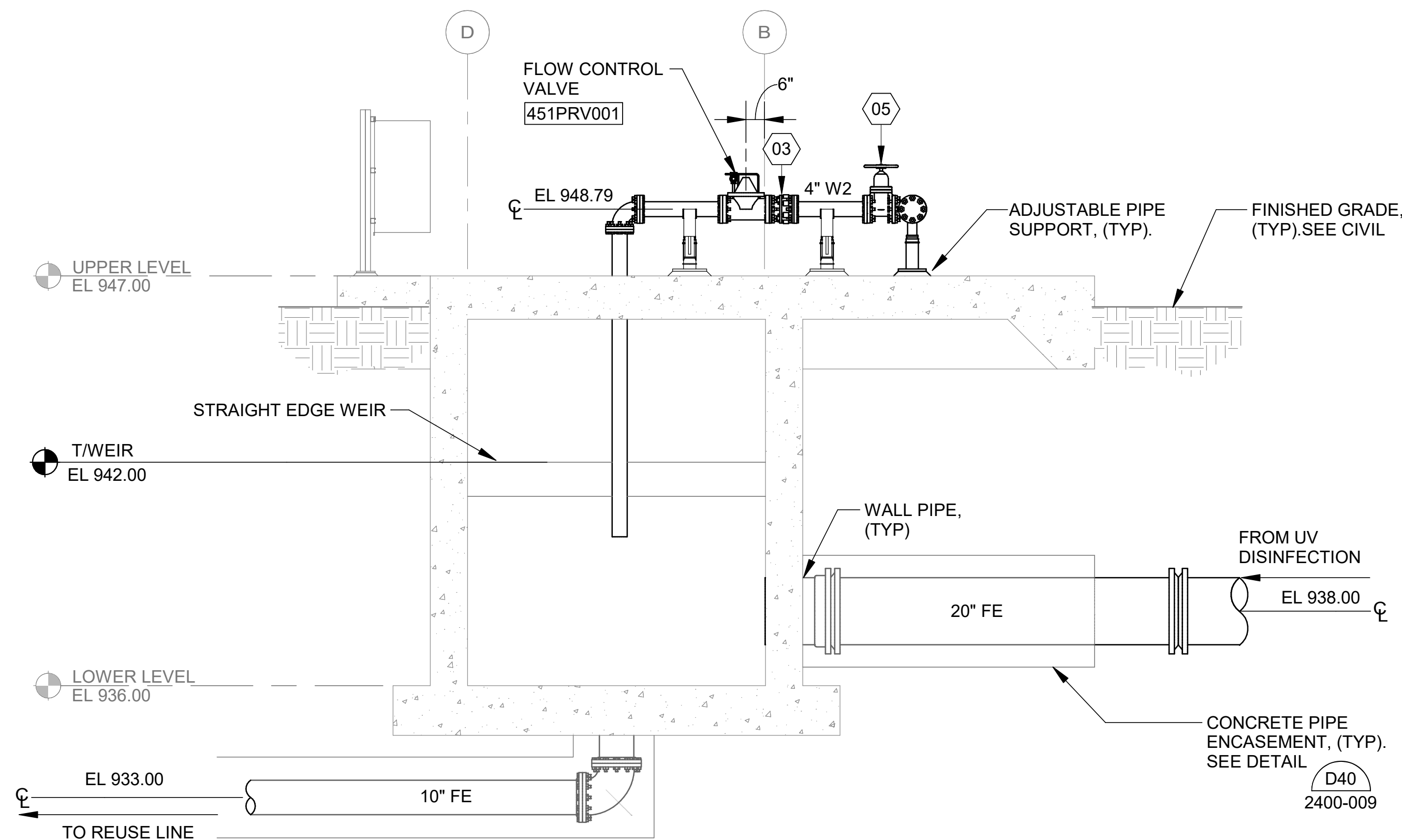
45-P101

SHEET
NUMBER **361**

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Plot Date: 10/2/2026 1:39:56 PM



1 SECTION AT FLOW METER
45-P101 SCALE: 3/8" = 1'-0"



2 SECTION AT CONTROL VALVE
45-P101 SCALE: 3/8" = 1'-0"

KEYNOTES

02	8" DISMANTLING JOINT (FLG x FLG)
03	4" DISMANTLING JOINT (FLG x FLG)
04	4" SWING CHECK VALVE - V605 (FLG x FLG)
05	4" GATE VALVE - V142 (FLG x FLG)
06	4" EQUIPMENT CONNECTION (FLG X FLG)
07	1/2" BALL VALVE V300 (SOC x SOC)

NOTES:

1. COORDINATE MECHANICAL SEAL FLUSH CONNECTION WITH SELECTED PUMP MANUFACTURER.



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F-5713



REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM NO. 6	NER



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

EFFLUENT SECTIONS
2

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: SJC
DRAWN BY: MAR
CHECKED BY: NER

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ORIGINAL DRAWING 1"

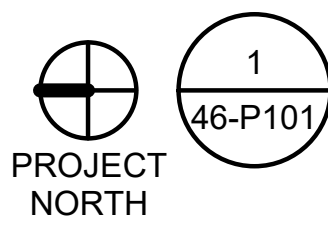
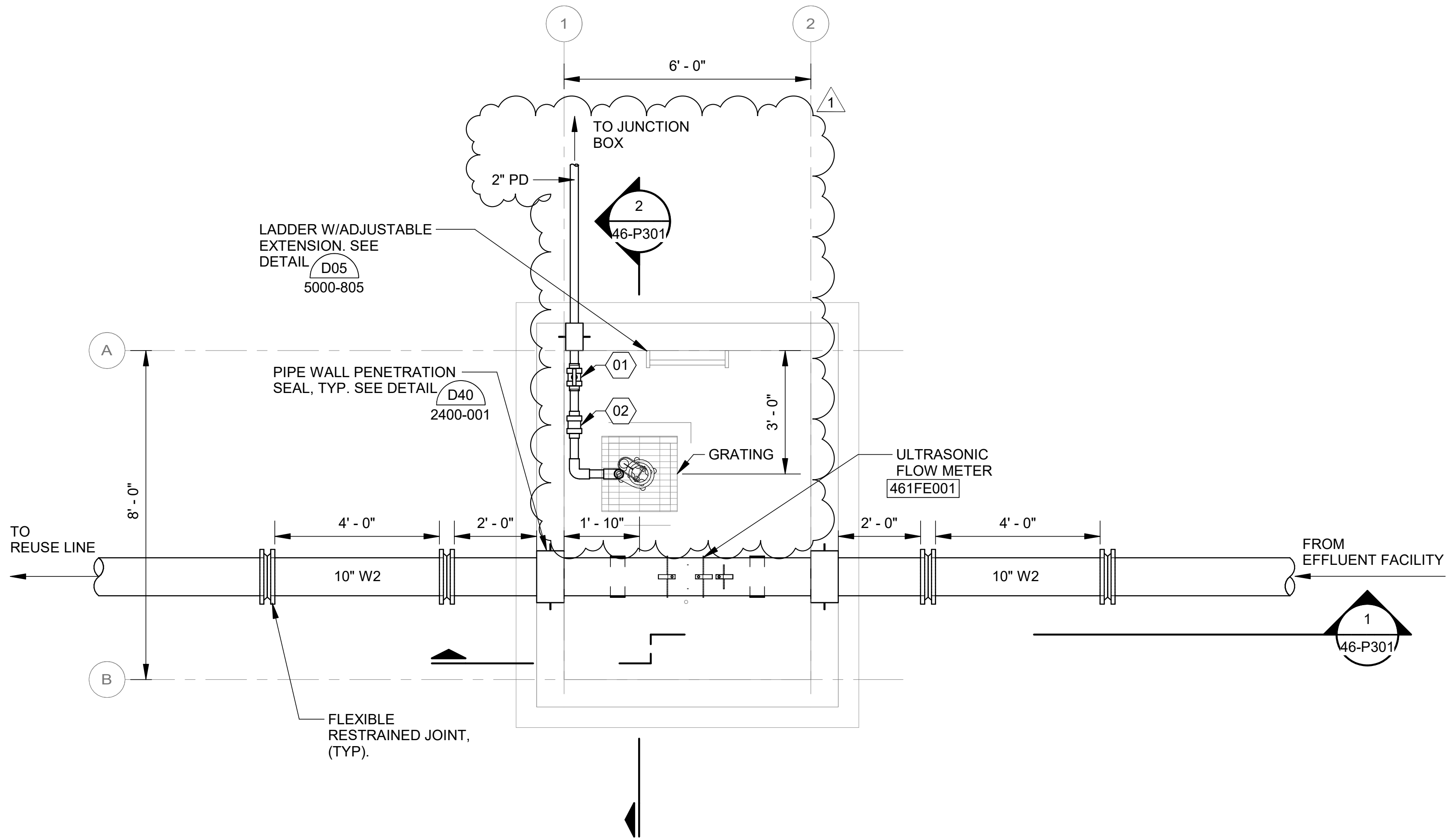
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DRAWING NUMBER

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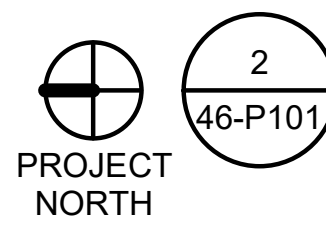
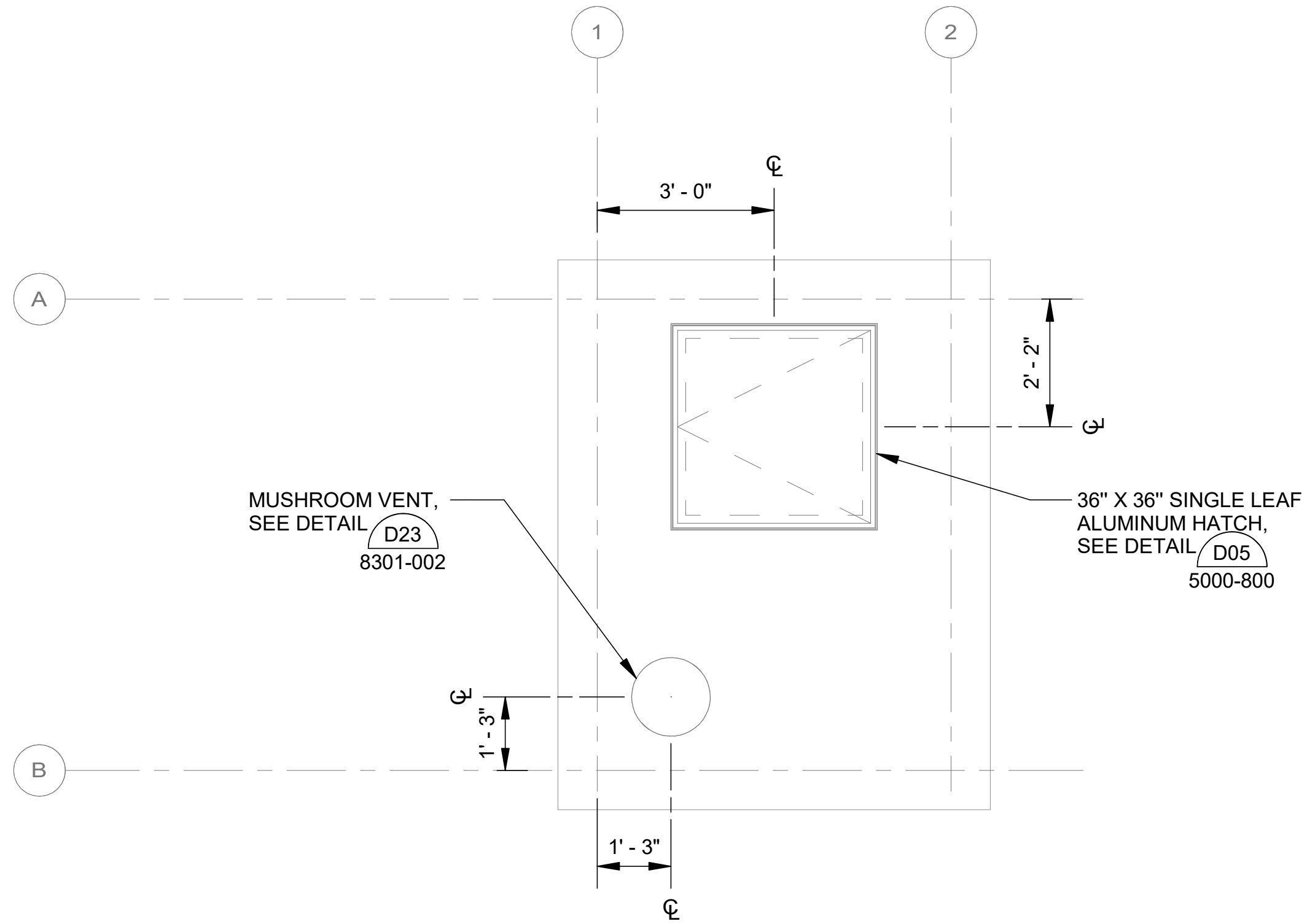
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NUMBER **363**

Revit File: AutodesK Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_46_METER VAULT.rvt
Plot Date: 10/2/2026 11:02:39 AM



METER VAULT LOWER LEVEL

SCALE: 1/2" = 1'-0"



METER VAULT UPPER LEVEL

SCALE: 1/2" = 1'-0"

KEYNOTES	
01	2" BALL VALVE - V332 (SOC x SOC)
02	2" UNION (SOC x SOC)

NOTE:

- CONTRACTOR SHALL HAVE PRECAST VAULT DESIGNED AND SEALED BY A TEXAS PROFESSIONAL ENGINEER. PRECAST VAULT STRUCTURE TO INCLUDE A MINIMUM WALL THICKNESS OF 8" AND FLOOR THICKNESS OF 1'-0".



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REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM NO. 6	NER



CITY OF LIBERTY HILL
LIBERTY HILL, TX
LIBERTY HILL NORTH FORK WWTP

METER VAULT PLAN
VIEWS

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: SJC
DRAWN BY: PLD
CHECKED BY: NER

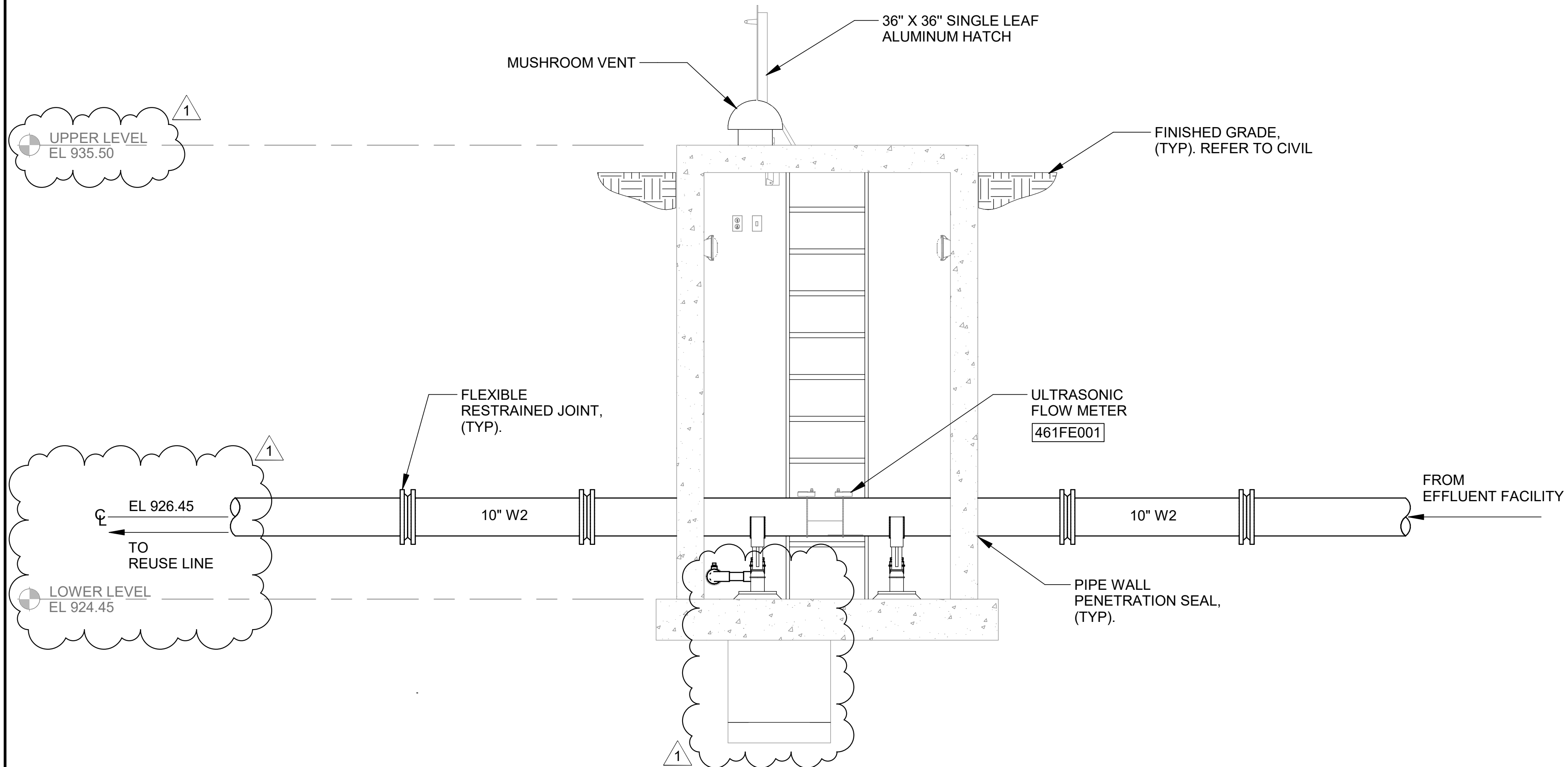
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DRAWING NUMBER

46-P101

SHEET
NUMBER **370**

Revit File: Autodesk Docs//W07-2401219 - Liberty Hill North Fork WWTP Design/W07-2401219_46_METER VAULT.M
Plot Date: 10/2/2026 11:02:43 AM

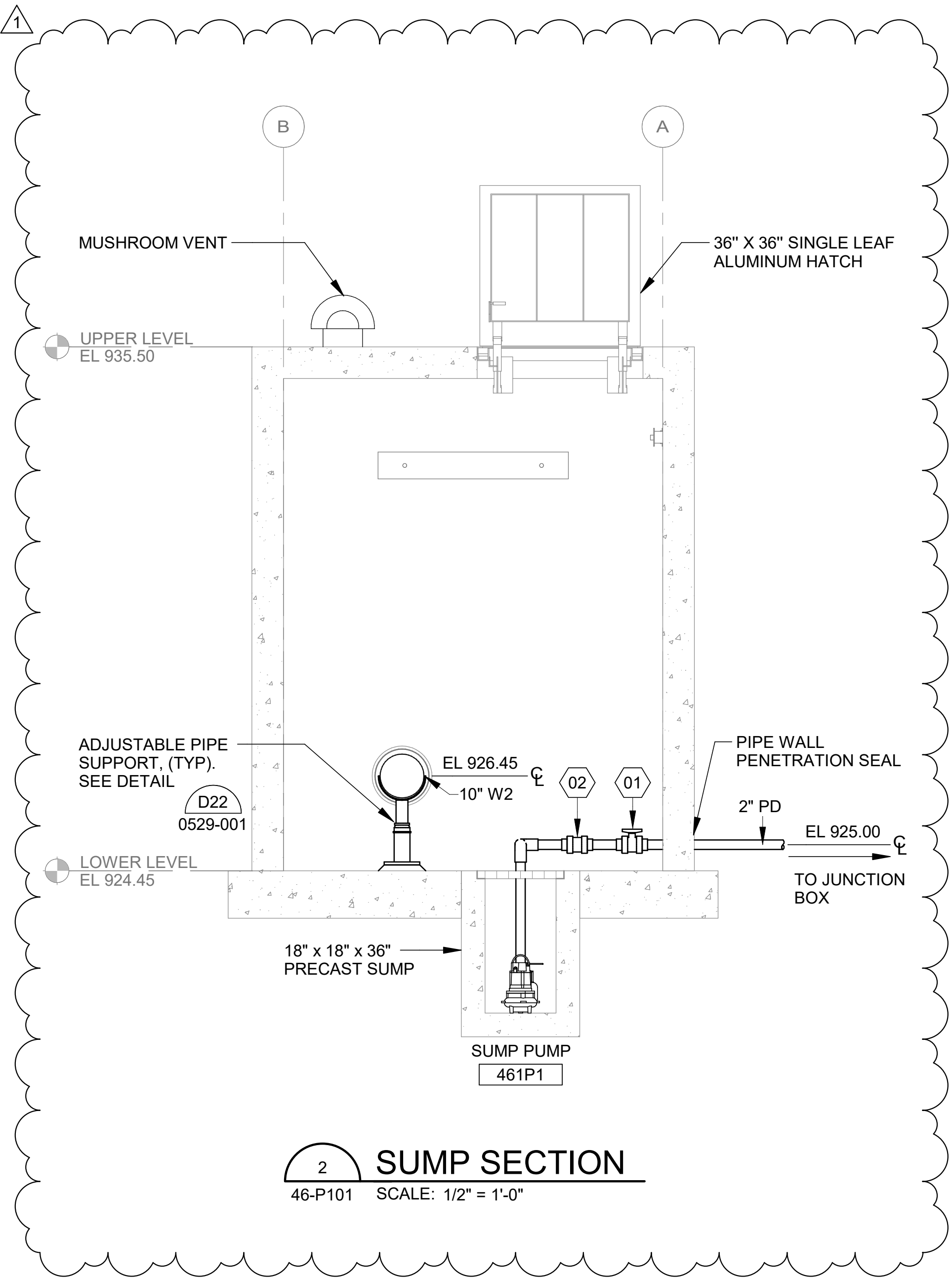


1 METER VAULT SECTION
46-P101 SCALE: 1/2" = 1'-0"

KEYNOTES	
01	2" BALL VALVE - V332 (SOC x SOC)
02	2" UNION (SOC x SOC)

NOTE:

1. CONTRACTOR SHALL HAVE PRECAST VAULT DESIGNED AND SEALED BY A TEXAS PROFESSIONAL ENGINEER. PRECAST VAULT STRUCTURE TO INCLUDE A MINIMUM WALL THICKNESS OF 8" AND FLOOR THICKNESS OF 1'-0".



2 SUMP SECTION
46-P101 SCALE: 1/2" = 1'-0"



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REGISTRATION NO.
F-5713



BY	DESCRIPTION	DATE	REV
NER	ADDENDUM NO. 6	10/02/26	1



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

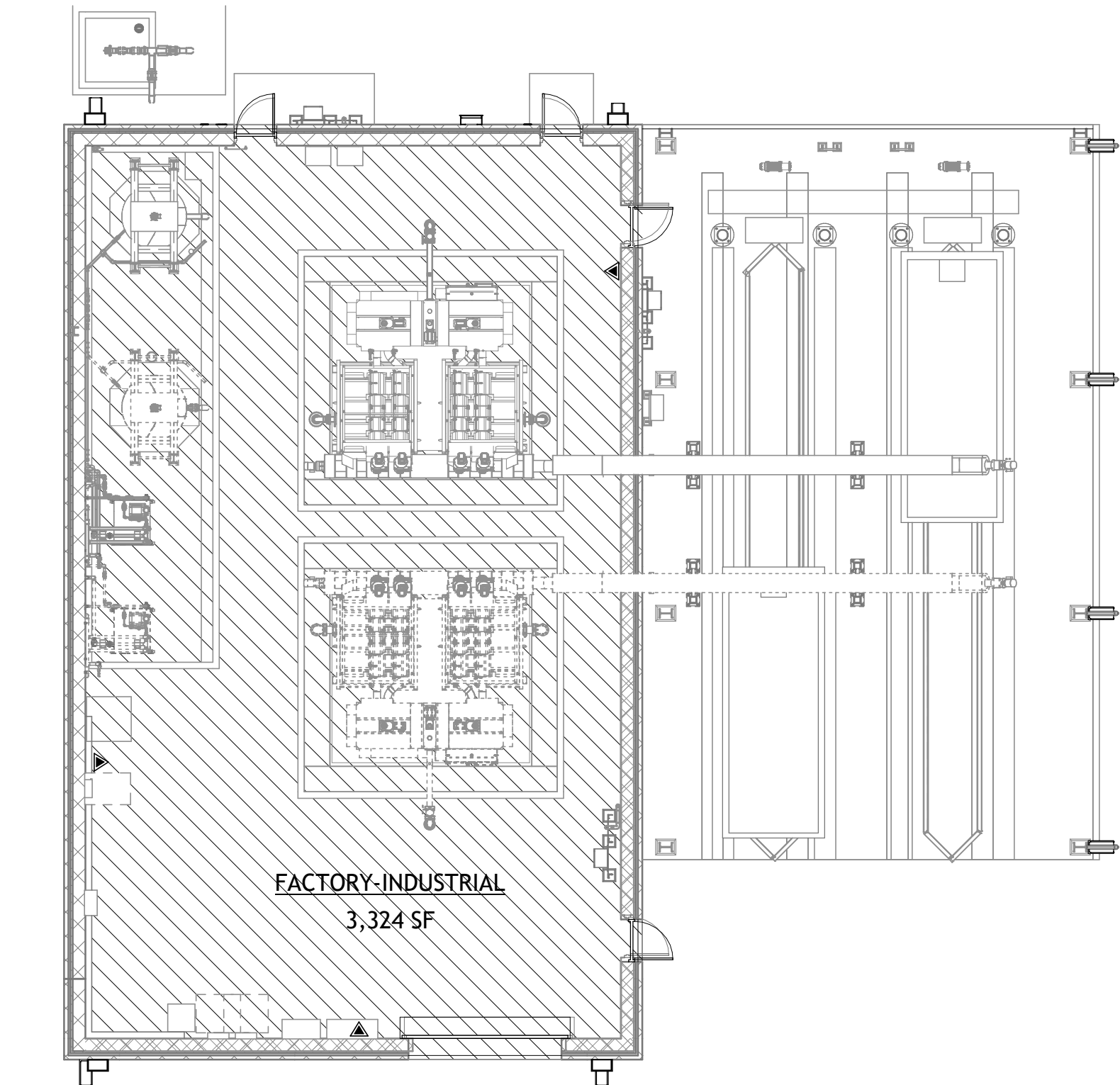
METER VAULT
SECTION VIEW

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: SJC
DRAWN BY: PLD
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BAR IS ONE INCH ON
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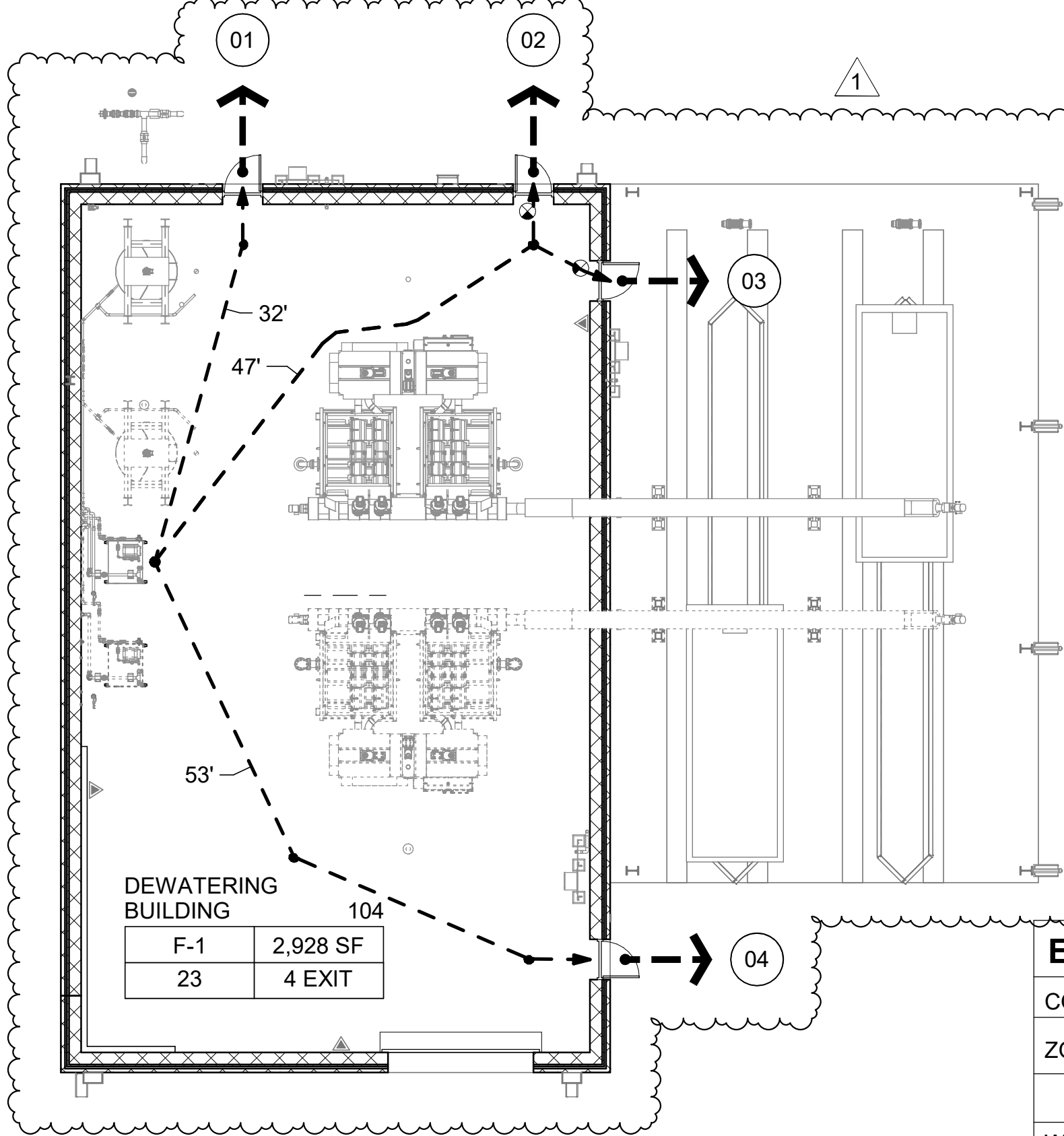
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NUMBER **371**

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PLOT Date: 10/2/2026 3:14:47 PM



 **2**
60-A001 SCALE: 3/32" = 1'-0"

OCCUPANCY PLAN



 **1**
60-A001 SCALE: 3/32" = 1'-0"

LIFE SAFETY PLAN

ENERGY CODE 2021 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE 402.1.3

COMMERCIAL ENERGY EFFICIENCY BUILDING ENVELOPE REQUIRMENTS

ZONE: 2A WILLIAMSON COUNTY

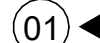
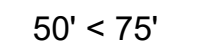
ELEMENT	PROPOSED DESIGN	MIN REQ'D	PROVIDED
WALL (MASS)	12" CMU + 2" RIGID INSULATION + MTL PANEL OR CMU VENEER	R-5.7 CI	R-5.7 CI
ROOF (INSULATION ENTIRELY ABOVE DECK)	PVC ROOF MEMBRANE, ROOF COVER BOARD, 6" RIGID INSULATION ON METAL DECK	R-25 CI	R-25 CI
FLOOR (SLAB ON GRADE)	UNHEATED CONCRETE SLAB	NR	NONE
DOOR, SWINGING:	INSULATED HM DOOR	U-0.83	R-8

NOTE: INSULATION THICKNESS MAY VARY DUE TO DIFFERENCES IN R-VALUE AND MANUFACTURER

PHASE GRAPHICS	
	EXISTING ELEMENTS
	NEW ELEMENTS
	EXISTING ELEMENTS TO BE REMOVED/DEMOLISHED
	FUTURE CONSTRUCTION NEW ELEMENT
FIRE RATED WALL PATTERN	
	1 HOUR RATED WALL
	2 HOUR RATED WALL
	3 HOUR RATED WALL
	4 HOUR RATED WALL
FIRE PROTECTION TAGS & ANNOTATIONS	
 1 HR	WALL TAG FIRE RATING, SEE WALL SCHEDULE FOR DETAILS
	FIRE EXTINGUISHER BRACKET MOUNTED FIRE EXTINGUISHER. WALL MOUNTED PULL HANDLE, MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED.
	CABINET MOUNTED FIRE EXTINGUISHER
	FIRE EXTINGUISHER TAG:
ABC	FIRE EXTINGUISHER TYPE
1	FIRE EXTINGUISHER CABINET OR MOUNT TYPE

BUILDING CODE								
CITY OF LIBERTY HILL - DEWATERING FACILITY INTERNATIONAL BUILDING CODE - IBC 2021 EDITION INTERNATIONAL FIRE CODE - IFC 2024 EDITION GENERAL: THIS PROJECT CONSISTS OF A NEW 3,324 GROSS SQUARE FOOT DEWATERING FACILITY. PRIMARY USES WILL BE AS FOLLOWS: DEWATERING FACILITY SPECIAL INSPECTIONS: SPECIFICATION SECTION 01 45 24 INTERNATIONAL BUILDING CODE CHAPTER 17								
OCCUPANCY LOAD CALCULATIONS								
CLASS	NAME	IBC SECTION	AREA	OCCUPANT LOAD FACTOR (SF)	OCCUPANT LOAD			
F-1	FACTORY-INDUSTRIAL	[IBC SECTION 306.1]	3324 SF	150 SF	23			
TOTAL			3324 SF		23			
OCCUPANCY SEPARATIONS								
OCCUPANCY		SPRINKLED/ NOT SPRINKLED	CONSTRUCTION TYPE	REQUIRED HORIZONTAL SEPARATION				
CLASS	NAME			F-1				
F-1	FACTORY-INDUSTRIAL	NS	II-B	N				
ELEMENT FIRE RESISTANCE RATING (TABLE 601)								
CLASS	BUILDING ELEMENTS (RATINGS IN HOURS)							
	PRIMARY STRUCTURAL FRAME	BEARING WALLS		NONBEARING WALLS		FLOOR	ROOF	
		EXTERIOR	INTERIOR	EXTERIOR	INTERIOR			
II-B	0	0	0	0	0	0		
ALLOWABLE AREA (CHAPTER 5, TABLE 506.2)								
OCCUPANCY			AREA					
CLASS	NAME	SPRINKLED/ NOT SPRINKLED	ALLOWABLE	PROVIDED				
F-1	FACTORY-INDUSTRIAL	NS	15500	3,324 SF				
ALLOWABLE HEIGHTS & STORIES								
OCCUPANCY			HEIGHT [TABLE 504.3]		STORIES [TABLE 504.4]			
CLASS	NAME	SPRINKLED/ NOT SPRINKLED	ALLOWABLE	PROVIDED	ALLOWABLE	PROVIDED		
F-1	FACTORY-INDUSTRIAL	NS	55'-0"		2			
COMMON PATH OF EGRESS TRAVEL								
OCCUPANCY		OCCUPANT LOAD		SPRINKLED/ NOT SPRINKLED	COMMON PATH OF TRAVEL			
CLASS	NAME	MAXIMUM	PROVIDED		NOT SPRINKLED	SPRINKLED	ACTUAL	
					OL > 30	OL >= 30		ED
F-1	FACTORY-INDUSTRIAL	49	23	NS	75' - 0"	75' - 0"	100' - 0"	53' - 0"
EXIT ACCESS TRAVEL DISTANCE								
CLASS	NAME	MAX TRAVEL DISTANCE						
		NOT SPRINKLED	SPRINKLED	ACTUAL				
F-1	FACTORY-INDUSTRIAL	200	250				53' - 0"	
MINIMUM NUMBER OF EXITS PER STORY								
OCCUPANCY		OCCUPANT LOAD	EXIT REQUIREMENTS					
CLASS	NAME		MIN. REQUIRED	PROVIDED				
F-1	FACTORY-INDUSTRIAL	23	1	4				
EGRESS PATH								
EGRESS PATH WITH LENGTH OF TRAVEL DISTANCE AND LENGTH OF ALLOWANCE TRAVEL DISTANCE								
DEAD END CORRIDOR WITH LENGTH								
EXIT SIGNAGE								
EMERGENCY EGRESS SIGN								
'EXIT' LETTERING SIDE SHOWN AS SHADED								
DIRECTIONAL SIGN ARROWS								
STORM SHELTER								
DESIGNATED STORM SHELTER AREA								
LIFE SAFETY ROOM TAG:								
ROOM NAME								
ROOM NUMBER								
CONFERENCE ROOM								
100								
# - #								
### SF								
#								
# EXIT								
OCCUPANCY ACTUAL OCCUPANT LOAD								
ROOM AREA								
NUMBER OF EXITS								
LIFE SAFETY STAIRWELL TAG:								
12								
OCCUPANCY LOAD-ACTUAL								
20								
OCCUPANCY LOAD-CAPACITY								
LIFE SAFETY SHEET NOTE								
ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL LIFE SAFETY DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.								

PROPOSED DESIGN			MIN REQ'D	PROVIDED
2" RIGID INSULATION + MTL PANEL OR CMU VENEER			R-5.7 CI	R-5.7 CI
6" MEMBRANE, ROOF COVER BOARD, 6" RIGID INSULATION ON METAL DECK			R-25 CI	R-25 CI
10" POLYISOCYANURATE CONCRETE SLAB			NR	NONE
1/2" X 2" X 4" HDG LVL DOOR			U-0.83	R-8

GENERAL DRAWING SYMBOLS	
	REVISION CLOUD AND NUMBER SHOWN ON PLANS
	KEYED NOTE REFERENCE
ROOM NAME 101 150 SF	SYMBOL INDICATES A ROOM / AREA DESIGNATION, WITH ROOM NUMBER AND SQUARE FOOTAGE
	SYMBOL INDICATES A STRUCTURAL GRIDLINE OR DATUM
01-T/CONC EL 271.00	SYMBOL INDICATES A LEVEL DATUM IN A SECTION OR ELEVATION
REFER TO 1 / 01-L101	CALLOUT DENOTES A VIEW REFERENCE ABOUT A MATCHLINE
LIFE SAFETY TAGS & ANNOTATIONS	
 A3	WALL TAG WALL TYPE, SEE WALL SCHEDULE FOR DETAILS
 01	EGRESS/EXIT PATH TAG 50' < 300' ALLOWABLE TRAVEL DISTANCE TRAVEL DISTANCE EXIT NUMBER
 50' < 75'	EGRESS PATH EGRESS PATH WITH LENGTH OF TRAVEL DISTANCE AND LENGTH OF ALLOWANCE TRAVEL DISTANCE
 50' < 75'	DEAD END CORRIDOR WITH LENGTH
	EXIT SIGNAGE EMERGENCY EGRESS SIGN 'EXIT' LETTERING SIDE SHOWN AS SHADED DIRECTIONAL SIGN ARROWS
	STORM SHELTER DESIGNATED STORM SHELTER AREA
LIFE SAFETY ROOM TAG:	
ROOM NAME	
ROOM NUMBER	
CONFERENCE ROOM	
100	
# - #	
### SF	
#	
# EXIT	
OCCUPANCY ACTUAL OCCUPANT LOAD	
ROOM AREA	
NUMBER OF EXITS	
LIFE SAFETY STAIRWELL TAG:	
12	
OCCUPANCY LOAD-ACTUAL	
20	
OCCUPANCY LOAD-CAPACITY	
LIFE SAFETY DOOR TAG:	
4	
OCCUPANCY LOAD-ACTUAL	
6	
OCCUPANCY LOAD-CAPACITY	
LIFE SAFETY SHEET NOTE	
ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL LIFE SAFETY DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.	



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REGISTRATION NO.
BR-60



10.02.2026

BY	CMR				
DESCRIPTION	ADDENDUM #6				
DATE	10/02/26				
REV	1				

CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL - LYNCHDALE
SMALL TOWN

LIBERTY HILL NORTH FORK WWTP

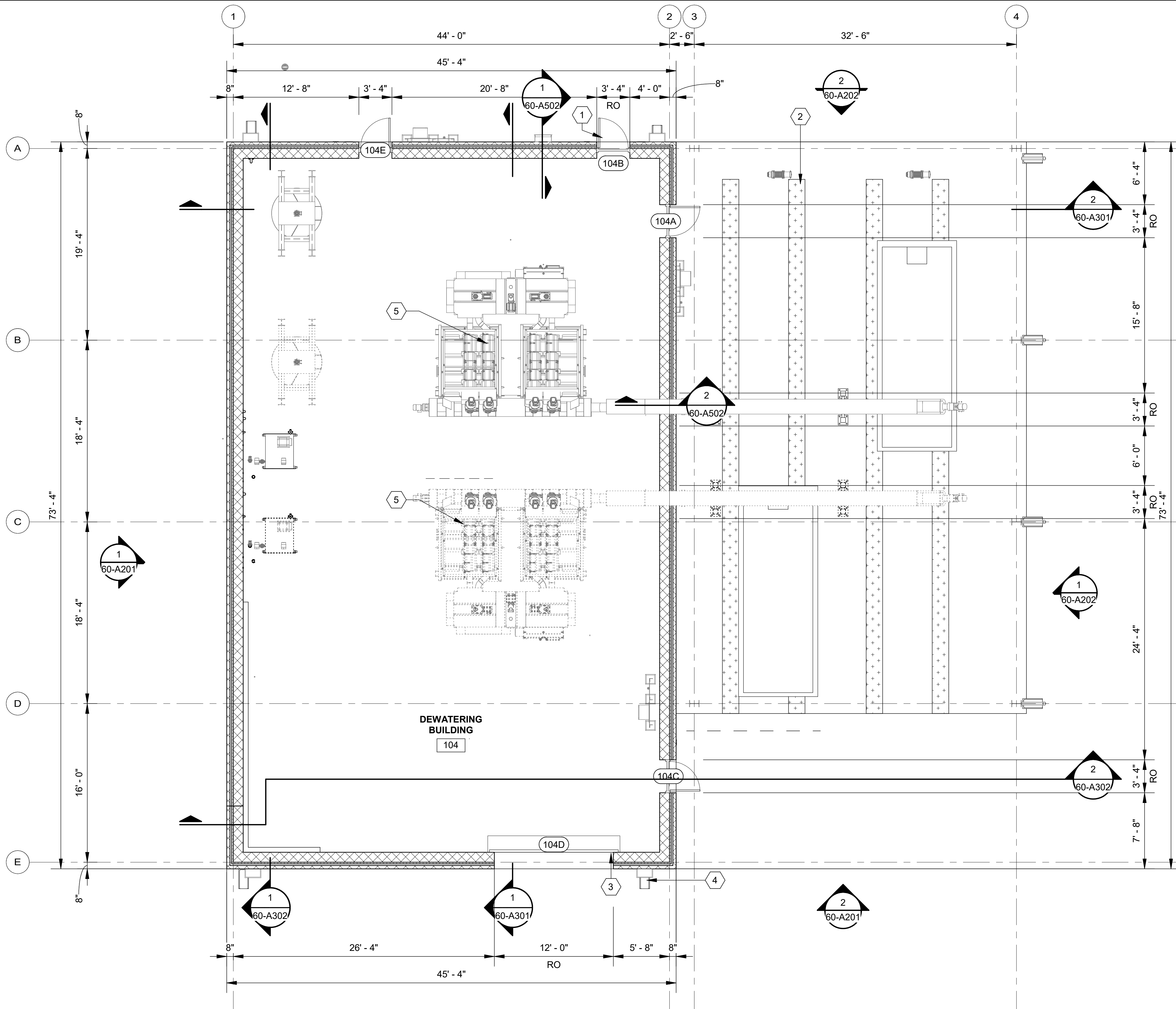
DEWATERING BUILDING CODE REVIEW & LIFE SAFETY PLAN

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: CIW
CHECKED BY: CMR

BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
60-A001

SHEET NUMBER
401



 **FLOOR PLAN**
PROJECT NORTH
1 60-A101
SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. REFER TO GENERAL SHEETS FOR OTHER GENERAL NOTES.
2. REFER TO ALL CIVIL/MEP/STRUCTURAL SHEETS FOR REQUIRED WORK.
3. ALL DIMENSIONS ARE TO FACE OF CMU, GYP BD, OR CENTER LINE OF GRID.
4. INSIDE FACE OF DOOR FRAME JAMBS (HINGE SIDE) ARE LOCATED 6" MIN. FROM ADJACENT PERPENDICULAR WALLS (UNLESS NOTED OTHERWISE).
5. PROVIDE BLOCKING/BRACING FOR ALL WALL MOUNTED, ATTACHED, AND RECESSED EQUIPMENT AND FURNISHINGS AS RECOMMENDED BY MANUFACTURERS.
6. PROVIDE 1'-6" CLEAR AREA AT PULL SIDE OF DOORS.
7. PROVIDE 1'-0" CLEAR AREA AT PUSH SIDE OF DOORS WITH LATCH AND CLOSER.
8. REFER TO A600 SERIES FOR DOOR TYPES & TYPICAL DETAILS.
9. SEE SPECIFICATIONS FOR HARDWARE SETS.
10. REFER TO A500 SERIES FOR PARTITION SCHEDULE

KEYNOTES

- 1 FIBERGLASS REINFORCED DOORS AND FRAMES
- 2 METAL GRATE AT FLOOR INLET, REFER TO STRUCTURAL
- 3 OVERHEAD COILING DOOR
- 4 CONCRETE SPLASH BLOCK
- 5 PROCESS EQUIPMENT; SEE PROCESS



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REGISTRATION NO.
BR-60



REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM # 6	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TX
LIBERTY HILL NORTH FORK WWTP

DEWATERING
BUILDING FLOOR
PLAN

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: CIW
CHECKED BY: CMR

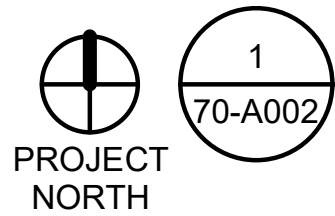
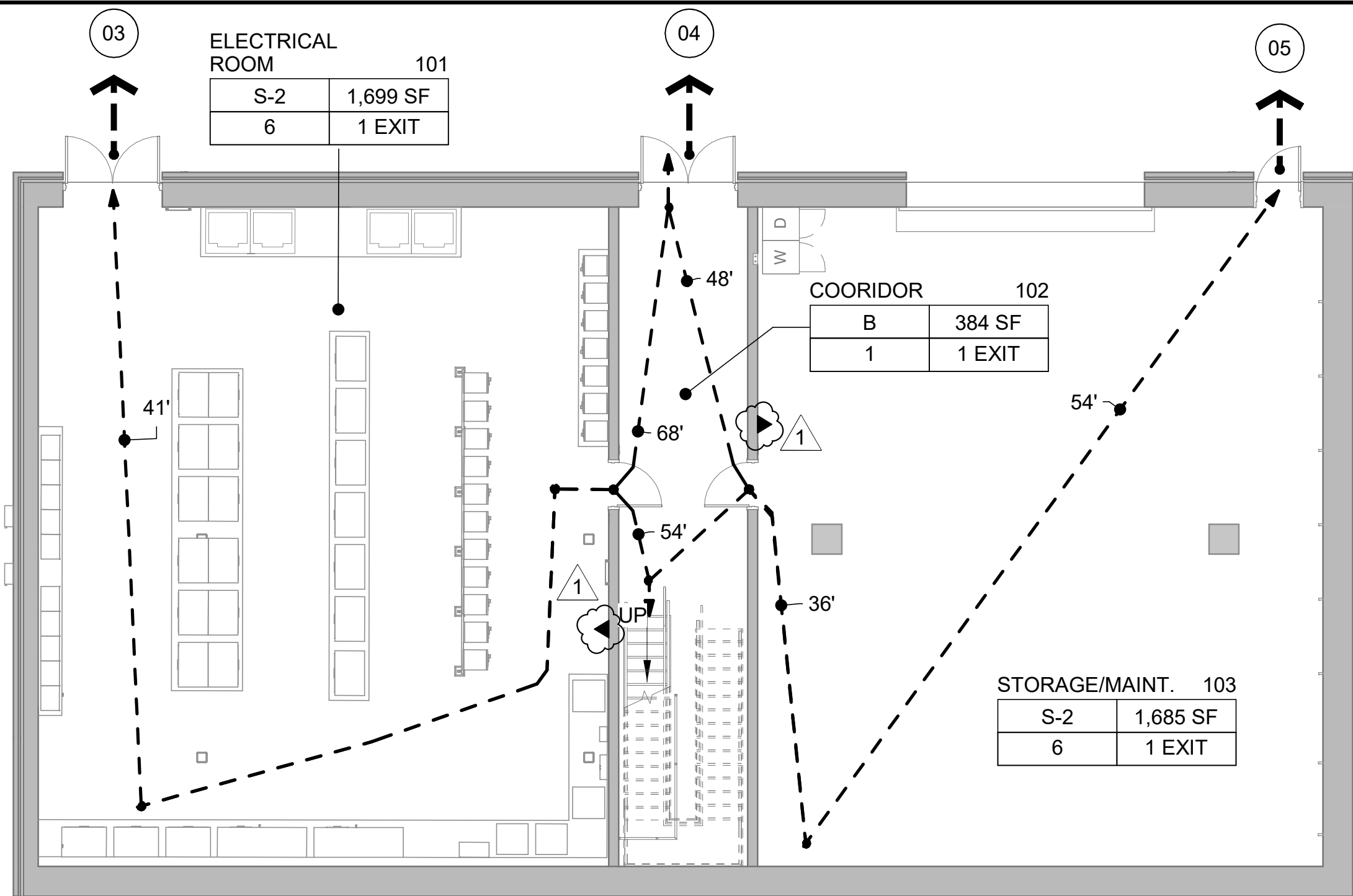
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DRAWING NUMBER

60-A101

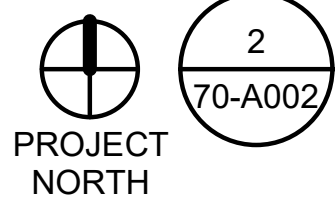
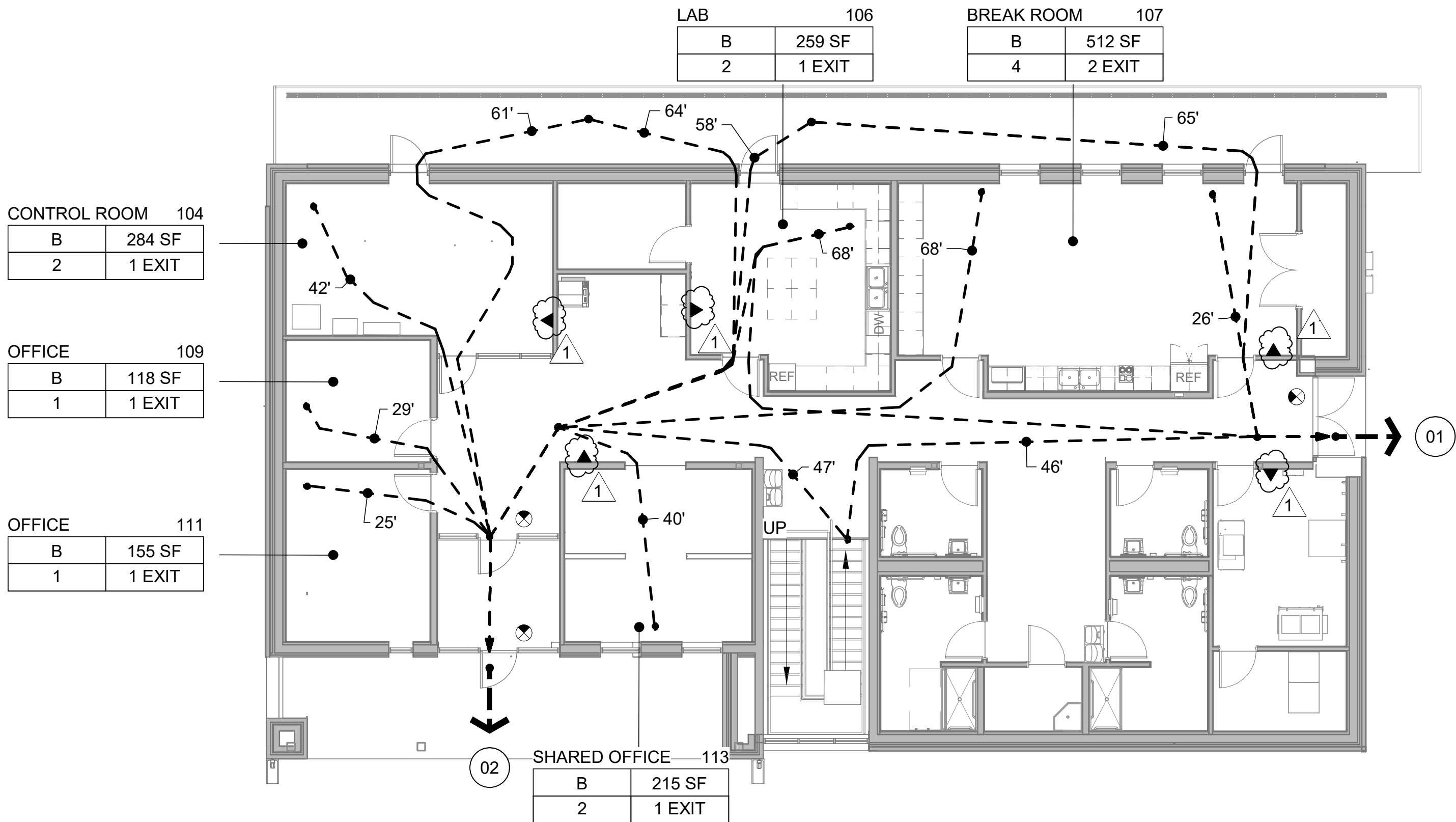
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NUMBER **402**

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Plot Date: 10/22/2026 10:48:52 AM



LOWER LIFE SAFETY PLAN

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



UPPER LIFE SAFETY PLAN

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

OCCUPANCY LOAD CALCULATIONS					
CLASS	NAME	IBC SECTION	AREA	OCCUPANT LOAD FACTOR (SF)	OCCUPANT LOAD
B	BUSINESS	[IBC SECTION 304.1]	4,387 SF	150 SF	30
S-2	STORAGE	[IBC SECTION 311.3]	3,906 SF	300 SF	14
TOTAL			8,293 SF		44

EXIT ACCESS TRAVEL DISTANCE				
CLASS	NAME	MAX TRAVEL DISTANCE (IN FEET)		
		NOT SPRINKLED	SPRINKLED	ACTUAL
S-2	STORAGE	300	400	61' - 0"
B	BUSINESS	200	300	68' - 0"
S-2	STORAGE	300	400	61' - 0"
B	BUSINESS	200	300	61' - 0"

MINIMUM NUMBER OF EXITS PER STORY				
OCCUPANCY		OCCUPANT LOAD	EXIT REQUIREMENTS	
CLASS	NAME		MIN. REQUIRED	PROVIDED
S-2	STORAGE	7	1	3
B	BUSINESS	27	1	2
S-2	STORAGE	7	1	3
B	BUSINESS	3	1	3

COMMON PATH OF EGRESS TRAVEL						
CLASS	NAME	OCCUPANT LOAD		SPRINKLED/NOT SPRINKLED	COMMON PATH OF TRAVEL	
		MAXIMUM	PROVIDED		NOT SPRINKLED OL > 30	SPRINKLED OL >= 30
B	BUSINESS	49	27	NS	75' - 0"	100' - 0"
B	BUSINESS	49	3	NS	75' - 0"	100' - 0"
S-2	STORAGE	29	7	NS	75' - 0"	100' - 0"
S-2	STORAGE	29	7	NS	75' - 0"	100' - 0"

GENERAL DRAWING SYMBOLS

1 REVISION CLOUD AND NUMBER SHOWN ON PLANS

1 KEYED NOTE REFERENCE

ROOM NAME
 101 150 SF
SYMBOL INDICATES A ROOM / AREA DESIGNATION, WITH ROOM NUMBER AND SQUARE FOOTAGE

A SYMBOL INDICATES A STRUCTURAL GRIDLINE OR DATUM

01-TOC EL 271.00 SYMBOL INDICATES A LEVEL DATUM IN A SECTION OR ELEVATION

CALLOUT DENOTES A VIEW REFERENCE ABOUT A MATCHLINE
REFER TO 1 / 35-L101

LIFE SAFETY TAGS & ANNOTATIONS

WALL TAG
 A3 WALL TYPE, SEE WALL SCHEDULE FOR DETAILS

EGRESS/EXIT PATH TAG
 01 50' < 300'
ALLOWABLE TRAVEL DISTANCE
TRAVEL DISTANCE
EXIT NUMBER

FIRE EXTINGUISHER
 BRACKET MOUNTED FIRE EXTINGUISHER. WALL MOUNTED PULL HANDLE, MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED.

CABINET MOUNTED FIRE EXTINGUISHER

EGRESS PATH
 50' < 75'
EGRESS PATH WITH LENGTH OF TRAVEL DISTANCE AND LENGTH OF ALLOWANCE TRAVEL DISTANCE

50' < 75'
DEAD END CORRIDOR WITH LENGTH

EXIT SIGNAGE
 EMERGENCY EGRESS SIGN
'EXIT' LETTERING SIDE SHOWN AS SHADED
DIRECTIONAL SIGN ARROWS

LIFE SAFETY ROOM DATA

ROOM NAME CONFERENCE ROOM ROOM NUMBER 100

CONFERENCE ROOM 100

ROOM AREA ### SF

NUMBER OF EXITS #

OCCUPANCY ACTUAL OCCUPANT LOAD

PHASE GRAPHICS

EXISTING ELEMENTS

NEW ELEMENTS

EXISTING ELEMENTS TO BE REMOVED/DEMOLISHED

FUTURE CONSTRUCTION NEW ELEMENT

FIRE RATED WALL PATTERN

1 HOUR RATED WALL

2 HOUR RATED WALL

3 HOUR RATED WALL

4 HOUR RATED WALL

LIFE SAFETY SHEET NOTE

ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL LIFE SAFETY DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS

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REGISTRATION NO. BR-60

10.02.2026

BY	CMR			
DESCRIPTION	ADDENDUM #6			
DATE	10/02/26			
REV	1			

CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS

LIBERTY HILL NORTH FORK WWTP

ADMINISTRATION
BUILDING LIFE
SAFETY PLAN

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

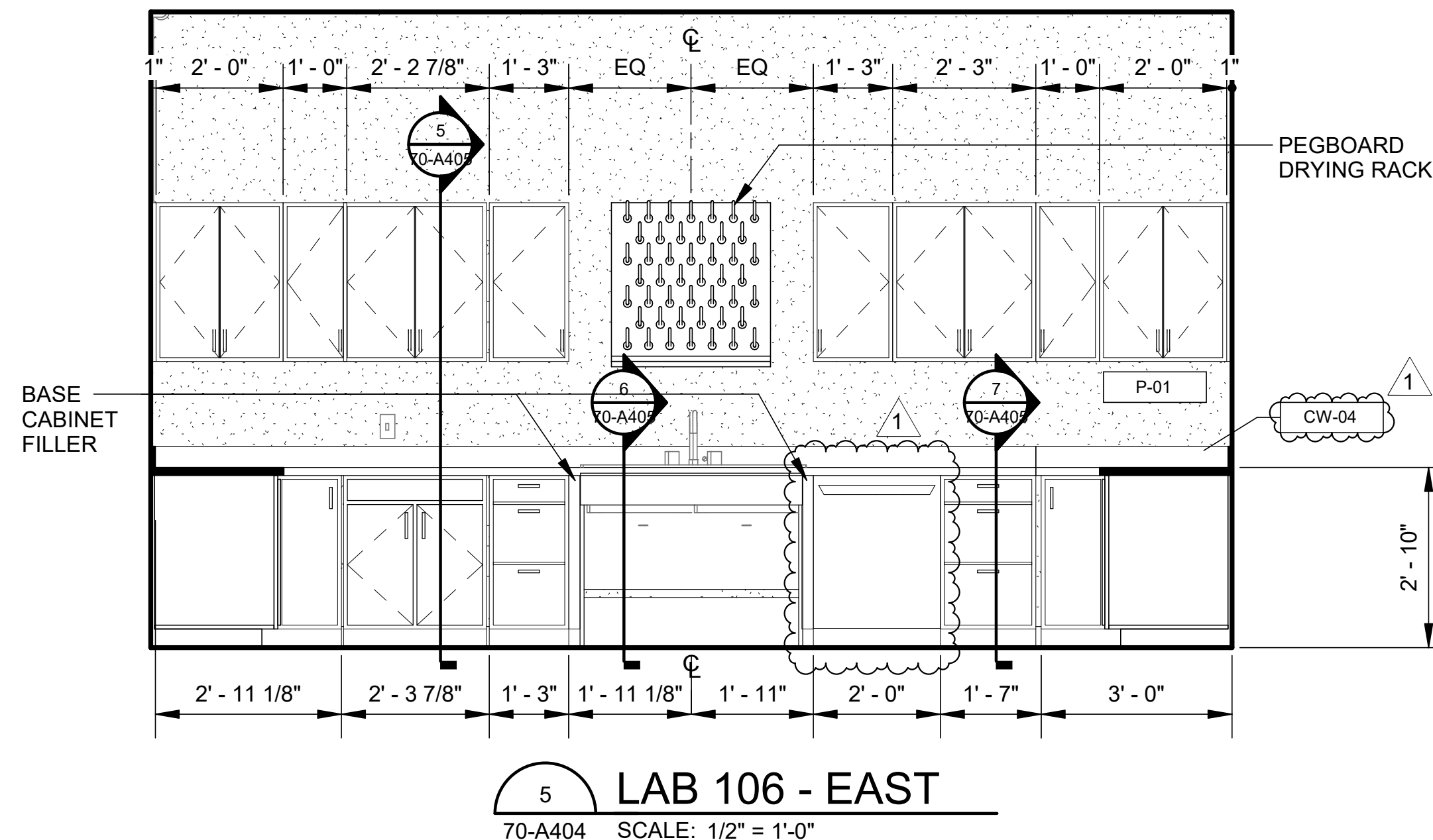
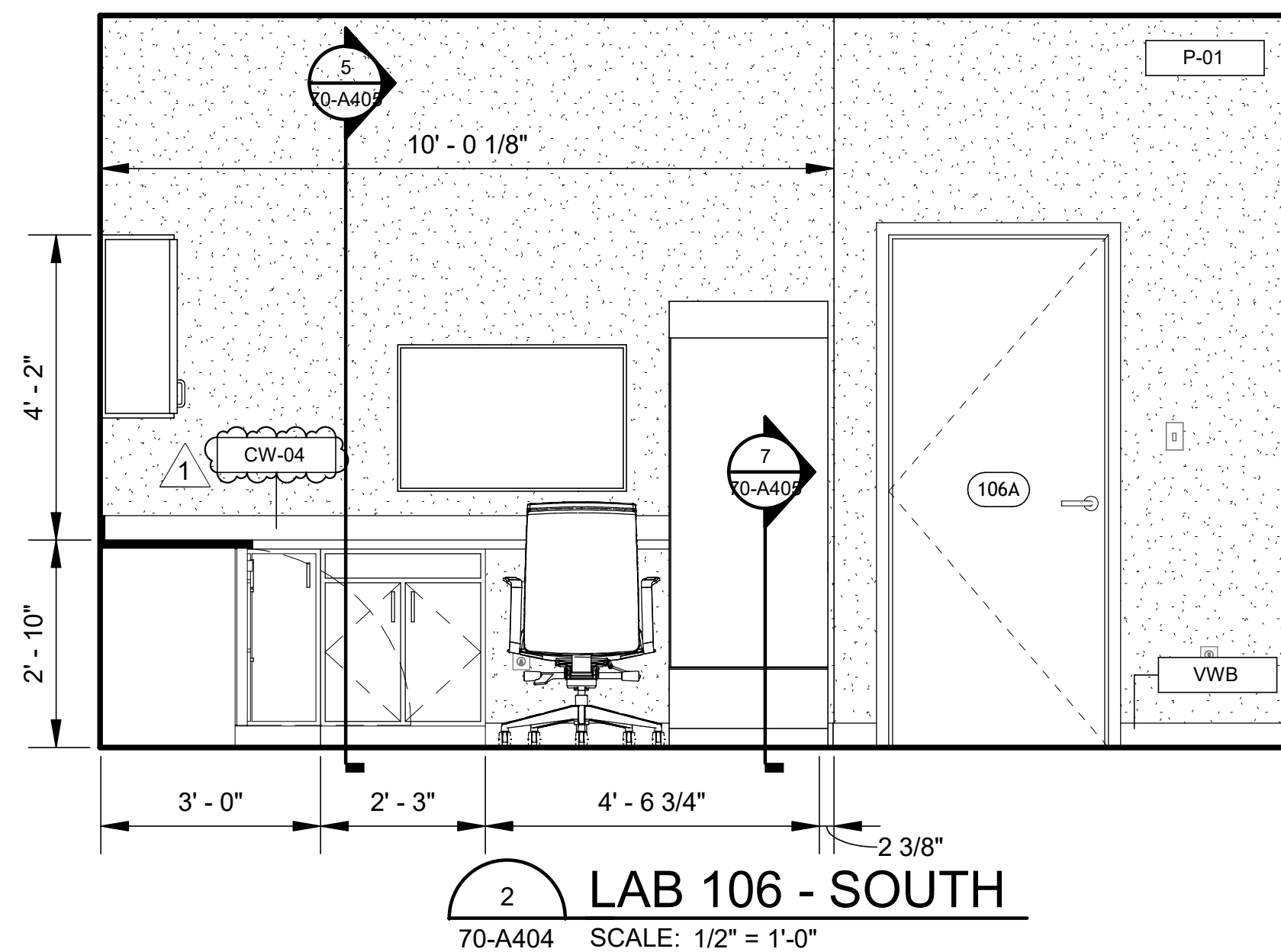
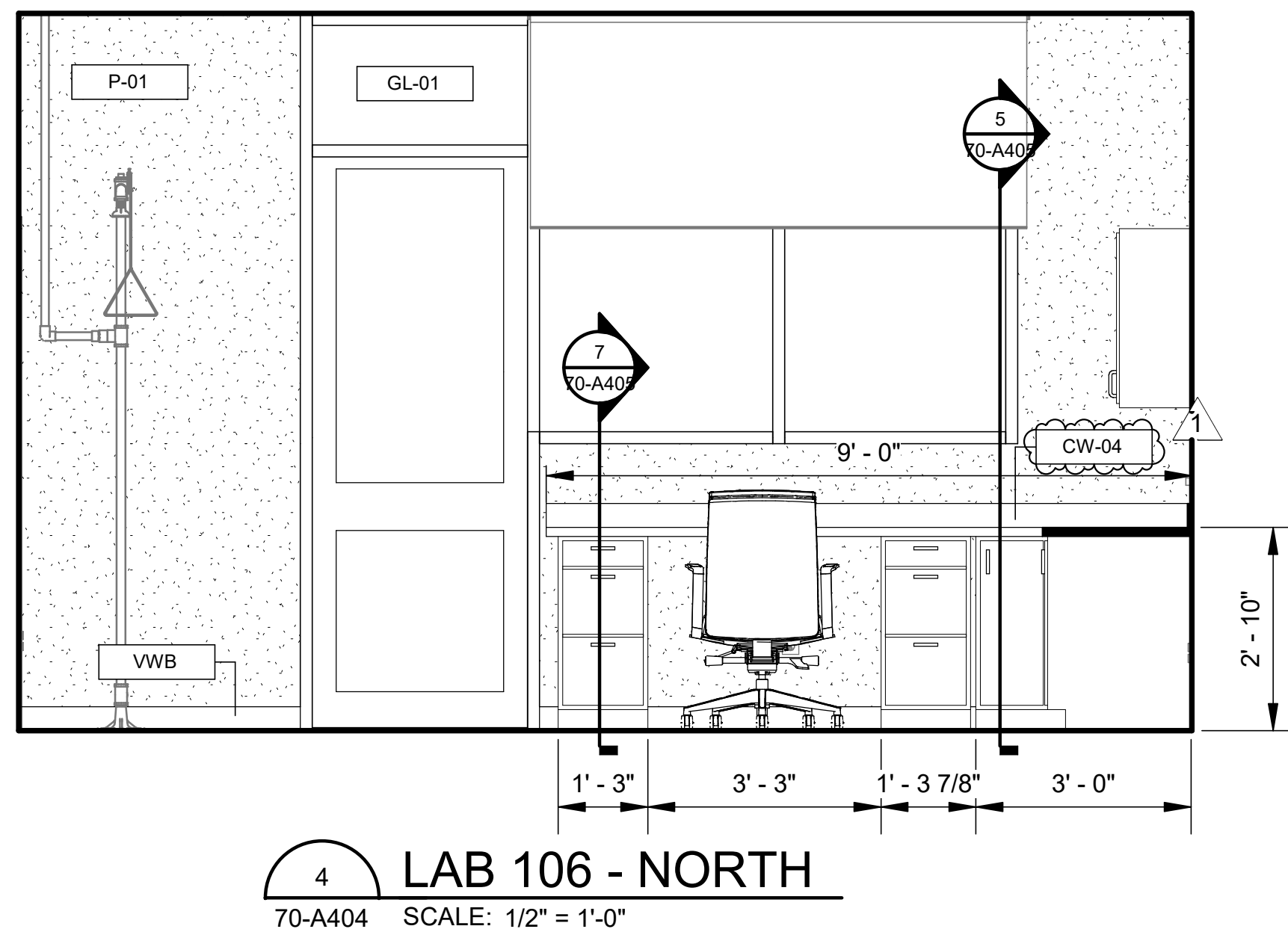
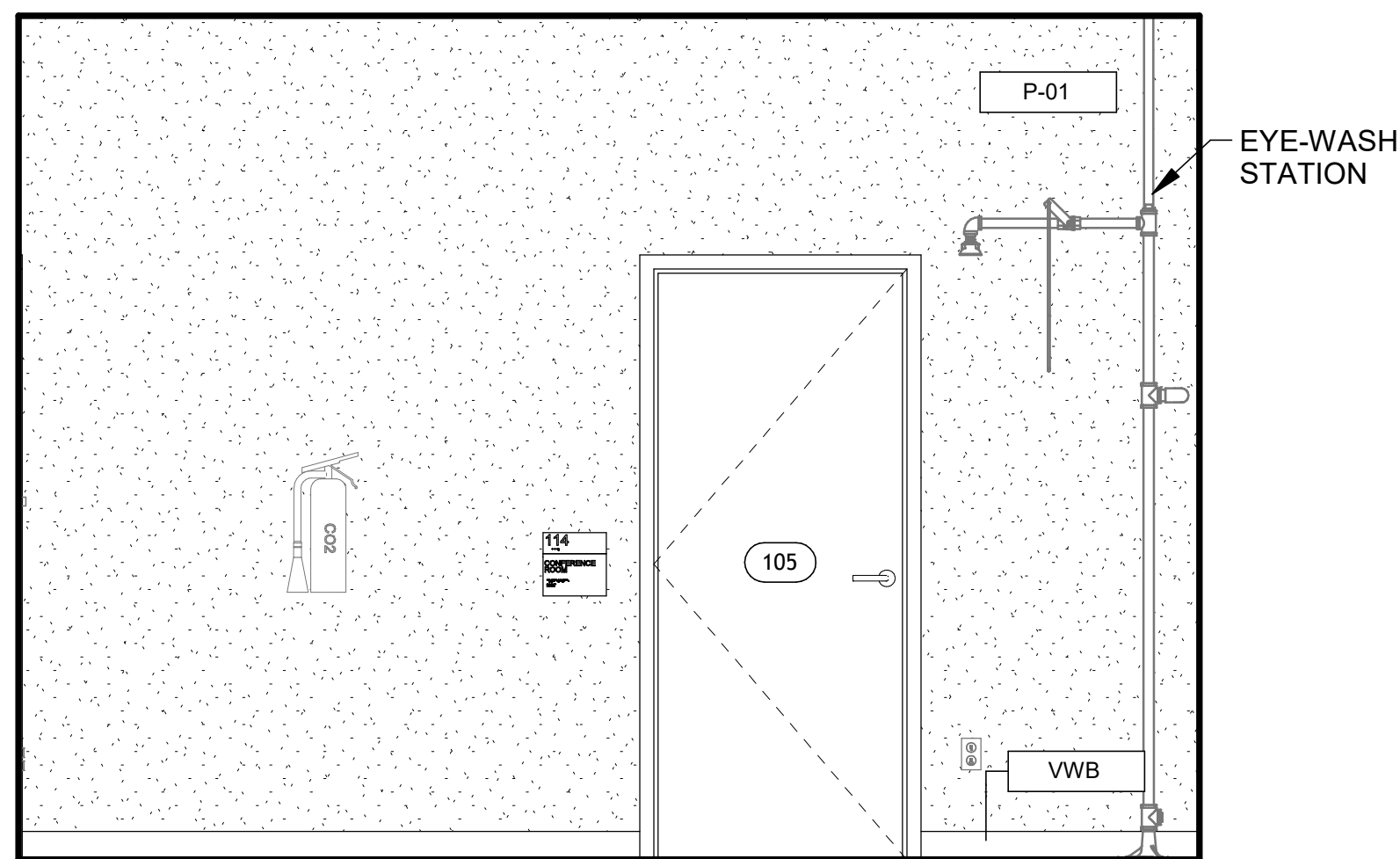
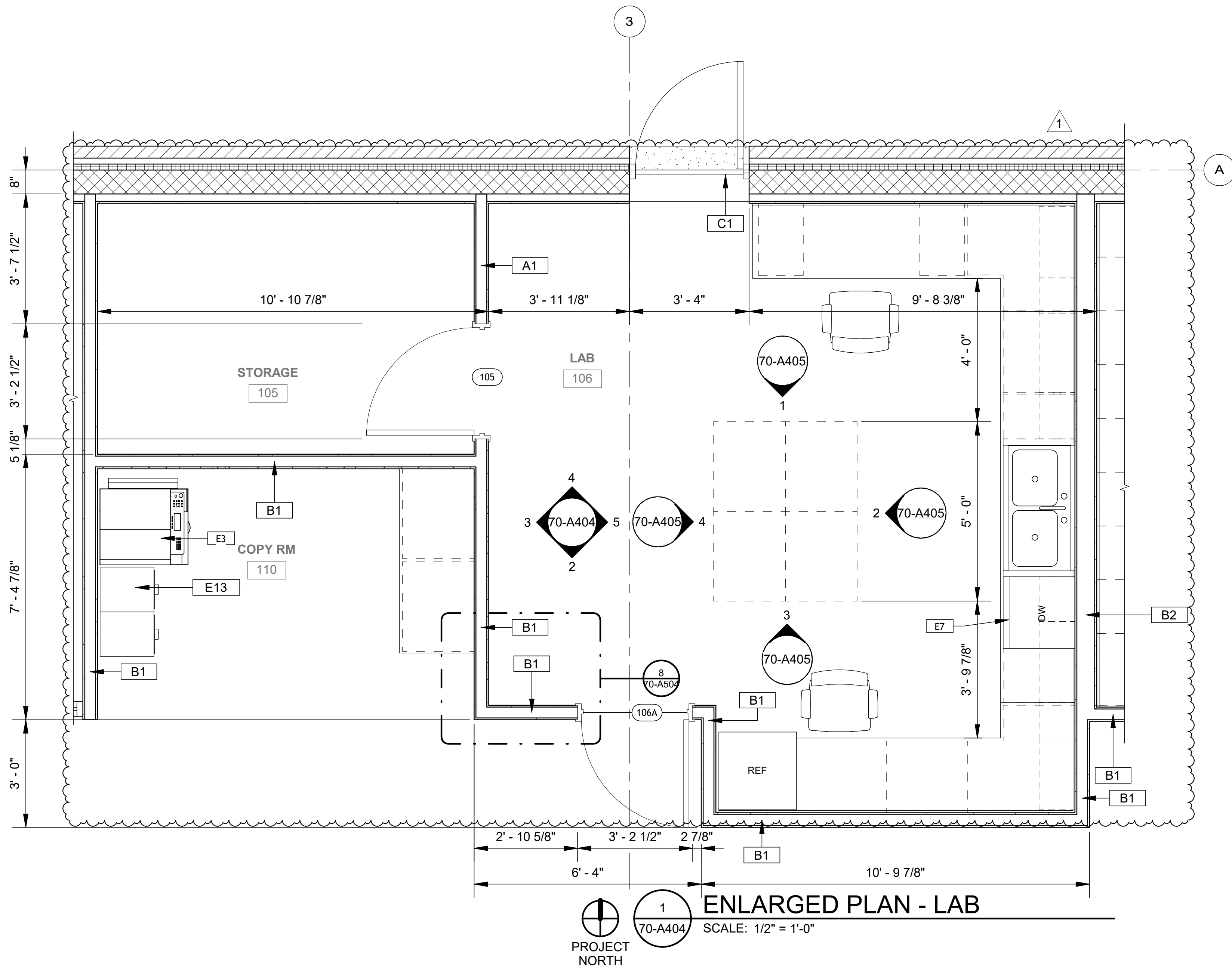
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DRAWING NUMBER
70-A002

SHEET NUMBER
461

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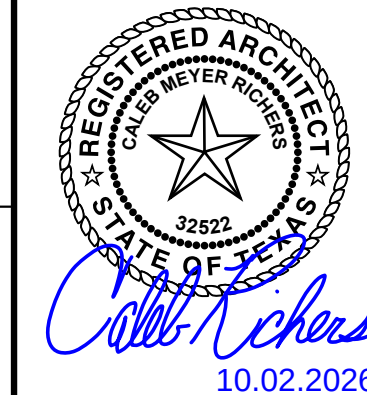
GENERAL NOTES

1. REFER TO GENERAL SHEETS FOR OTHER GENERAL NOTES.
2. REFER TO ALL CIVIL/MEP/STRUCTURAL SHEETS FOR REQUIRED WORK.
3. ALL DIMENSIONS ARE TO FACE OF CMU, GYP BD, OR CENTER LINE OF GRID.
4. INSIDE FACE OF DOOR FRAME JAMBS (HINGE SIDE) ARE LOCATED 6" MIN. FROM ADJACENT PERPENDICULAR WALLS (UNLESS NOTED OTHERWISE).
5. PROVIDE BLOCKING/BRACING FOR ALL WALL MOUNTED, ATTACHED, AND RECESSED EQUIPMENT AND FURNISHINGS AS RECOMMENDED BY MANUFACTURERS.
6. PROVIDE 1'-6" CLEAR AREA AT PULL SIDE OF DOORS.
7. PROVIDE 1'-0" CLEAR AREA AT PUSH SIDE OF DOORS WITH LATCH AND CLOSER.
8. REFER TO 70-A700 SERIES SHEETS FOR FLOOR FINISHES.
9. REFER TO 70-A600 SERIES SHEETS FOR DOOR TYPES & TYPICAL DETAILS.
10. SEE SPECIFICATIONS FOR HARDWARE SETS.
11. REFER TO 70-A500 SERIES SHEETS FOR PARTITION SCHEDULE

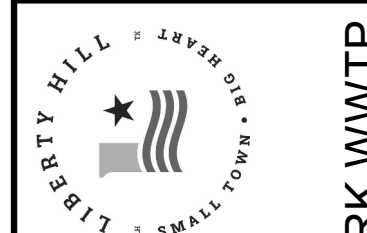


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REGISTRATION NO.
BR-60



REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM #6	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS
LIBERTY HILL NORTH FORK WWTP

ADMINISTRATION
BUILDING ENLARGED
PLANS LAB

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

BAR IS ONE INCH ON
ORIGINAL DRAWING 1"

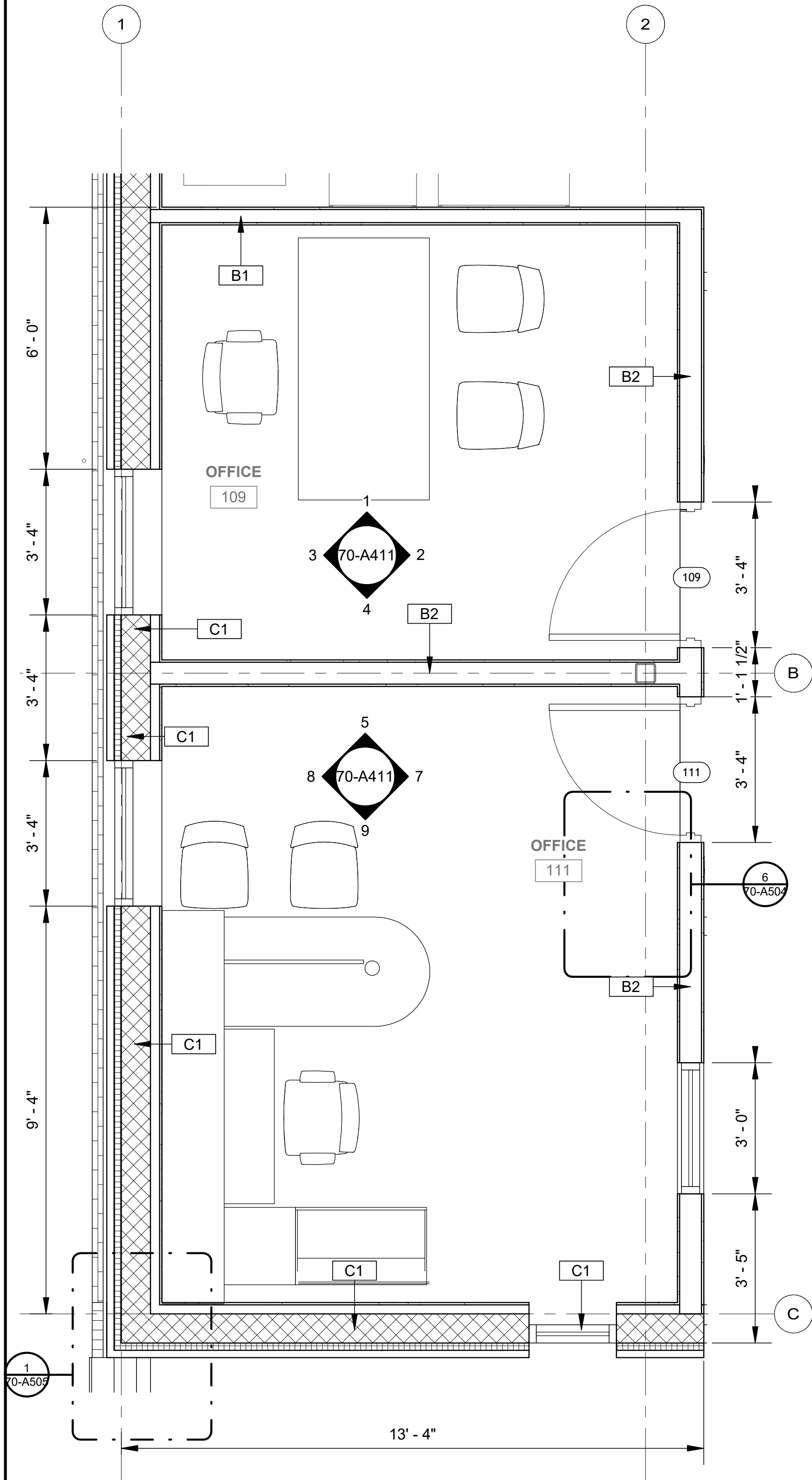
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DRAWING NUMBER

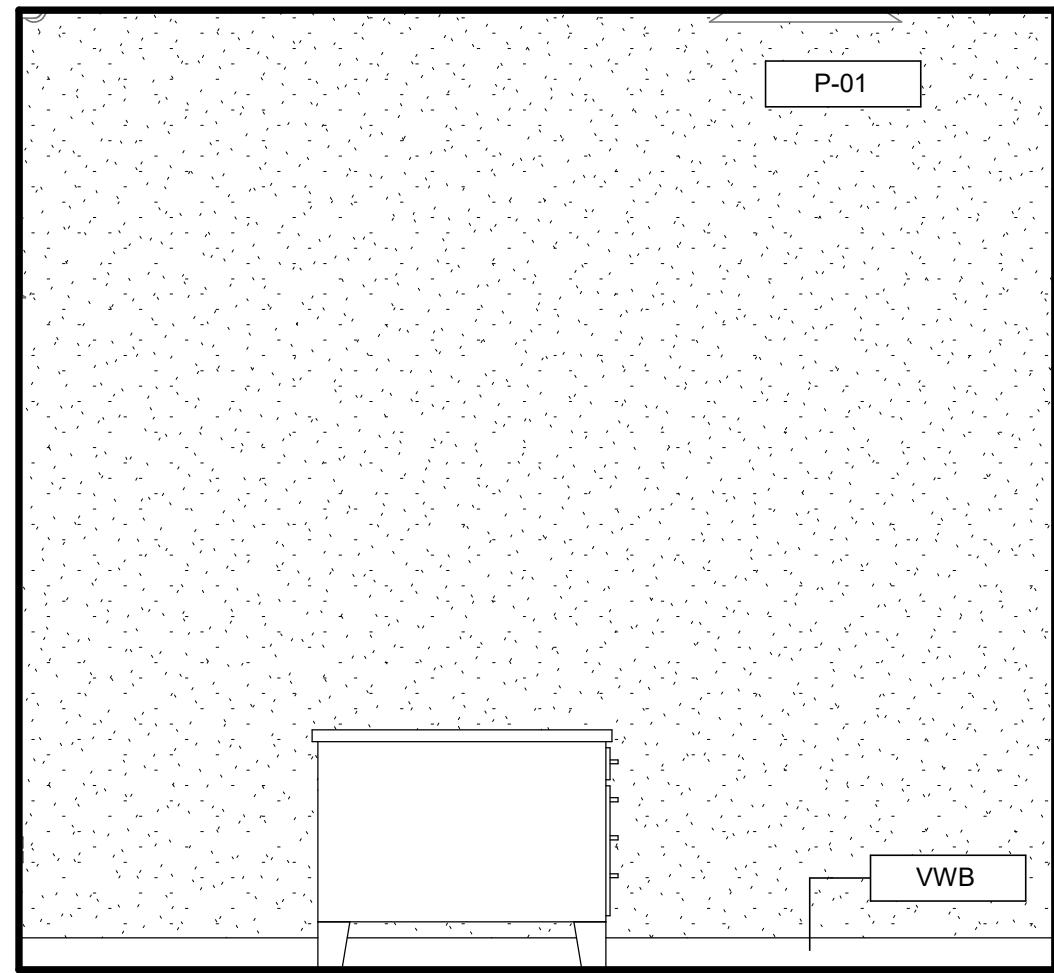
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NUMBER **480**

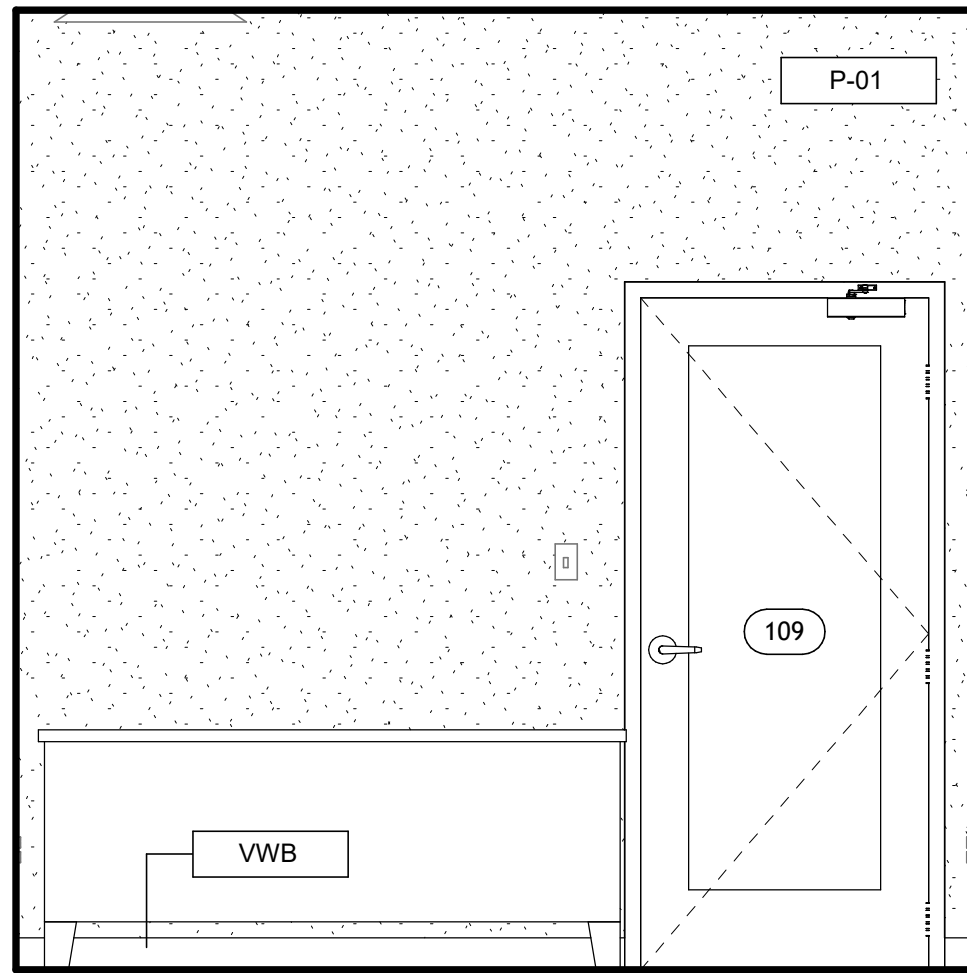
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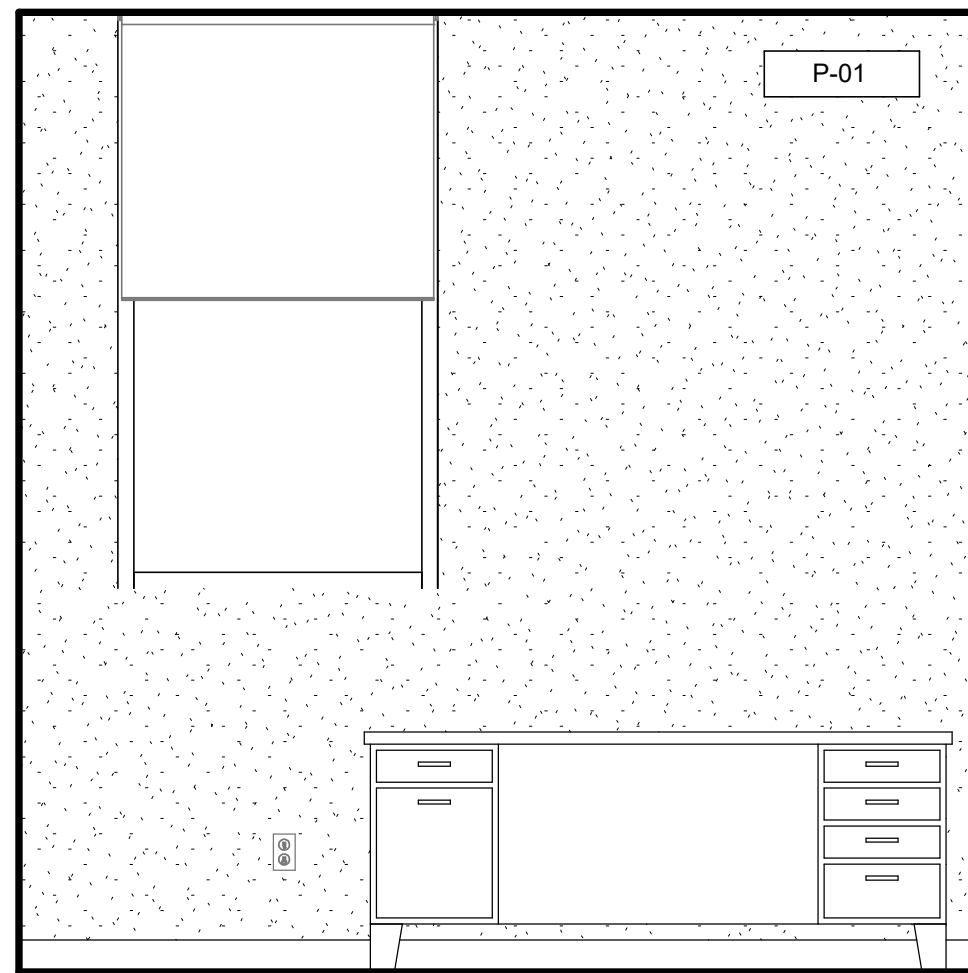
6 ENLARGED PLAN - OFFICES
70-A411 SCALE: 1/2" = 1'-0"



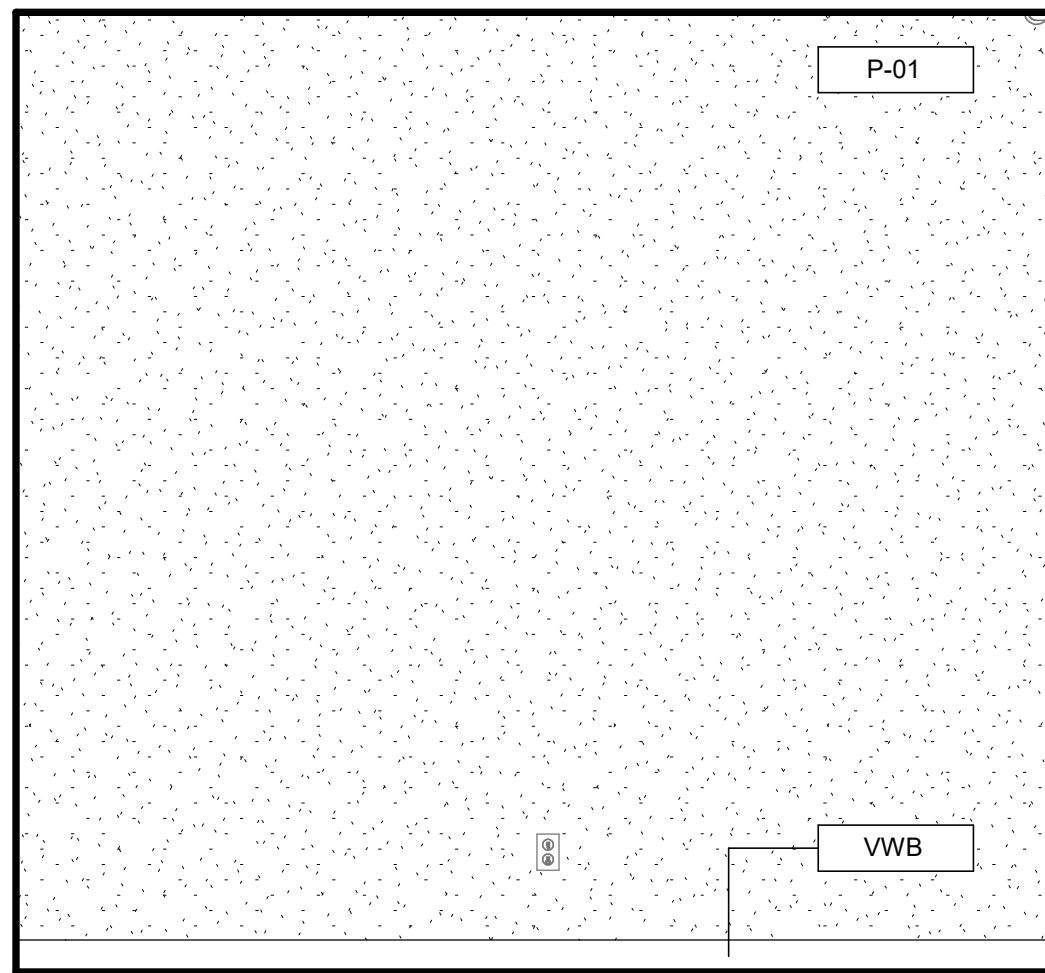
1 OFFICE 109 - NORTH
70-A411 SCALE: 1/2" = 1'-0"



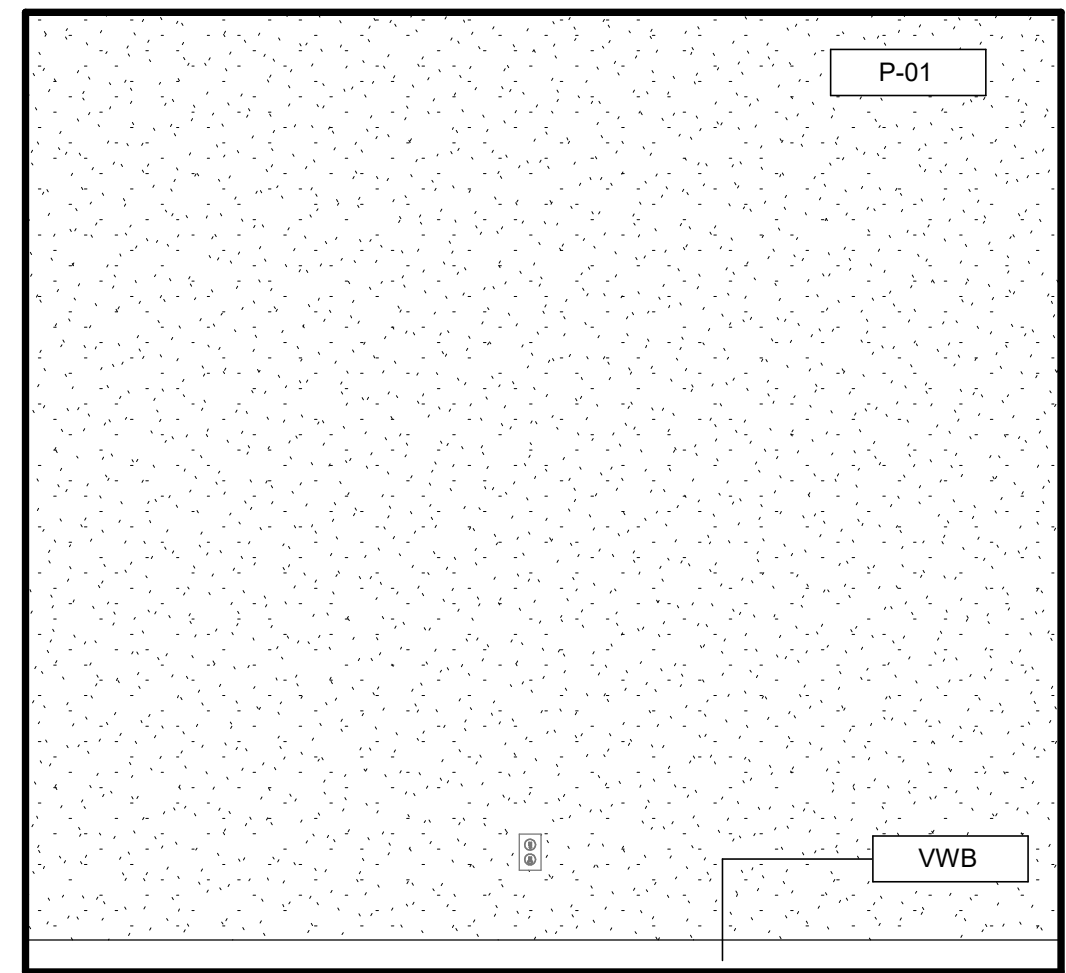
2 OFFICE 109 - EAST
70-A409 SCALE: 1/2" = 1'-0"



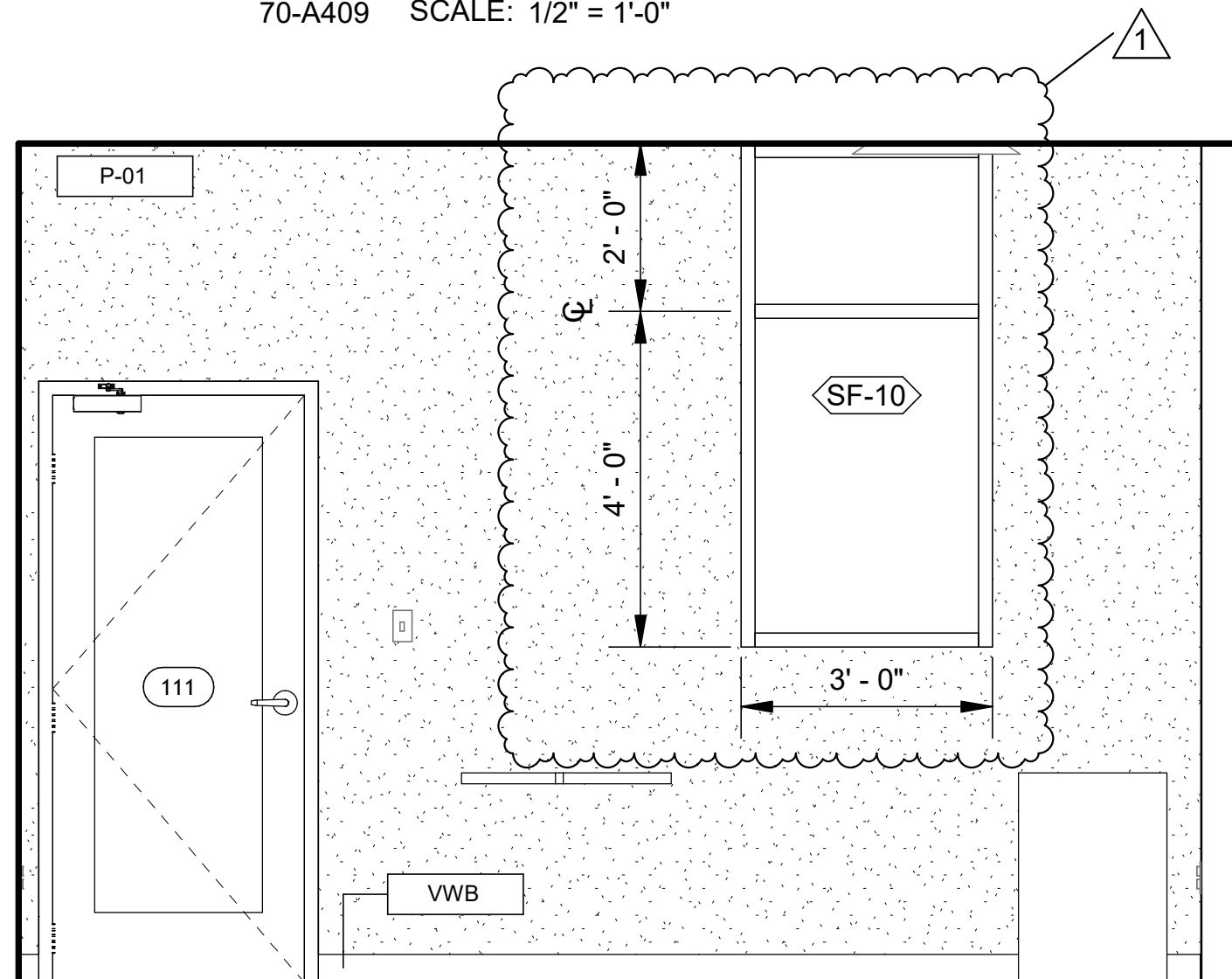
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70-A409 SCALE: 1/2" = 1'-0"



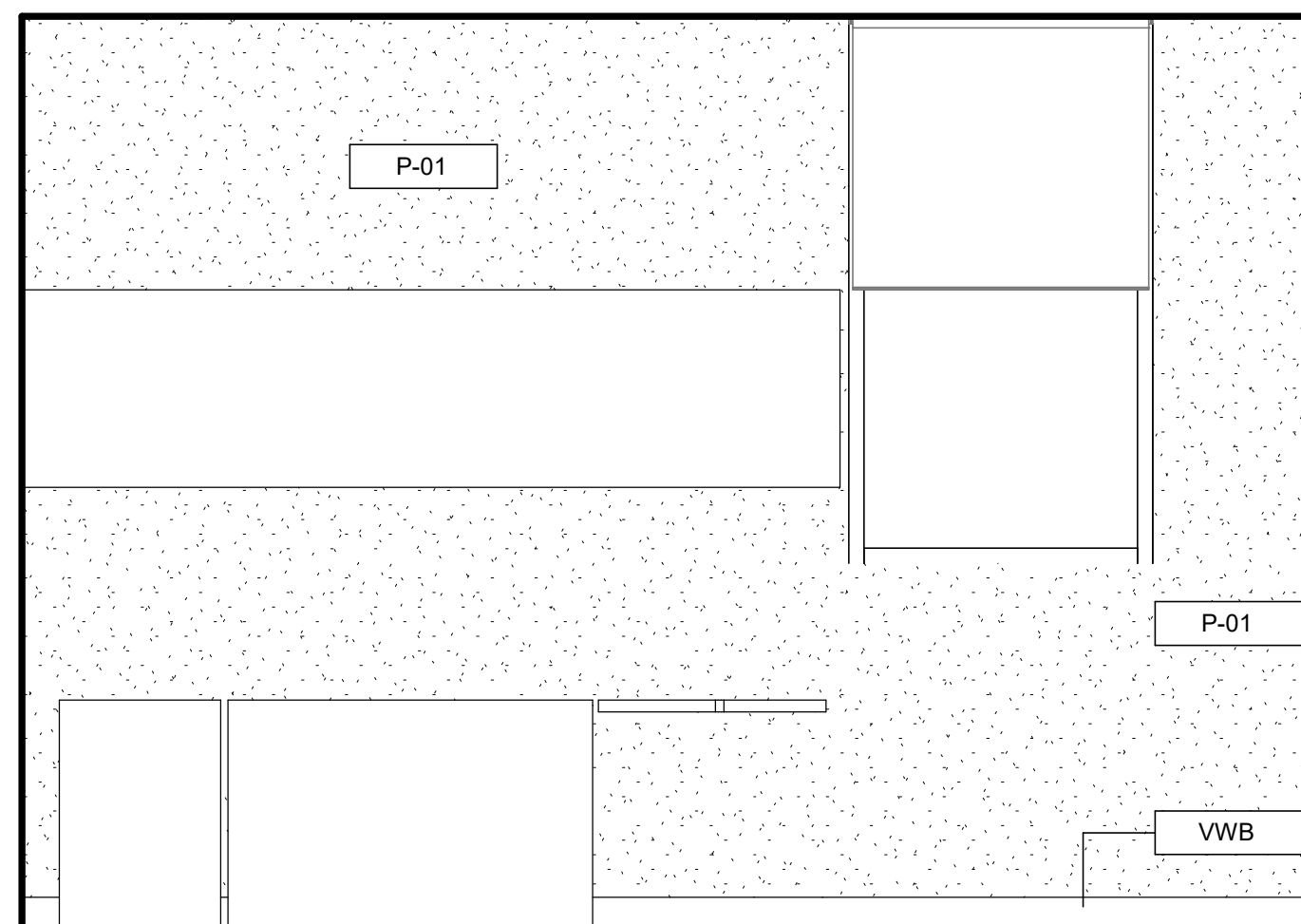
4 OFFICE 109 - SOUTH
70-A411 SCALE: 1/2" = 1'-0"



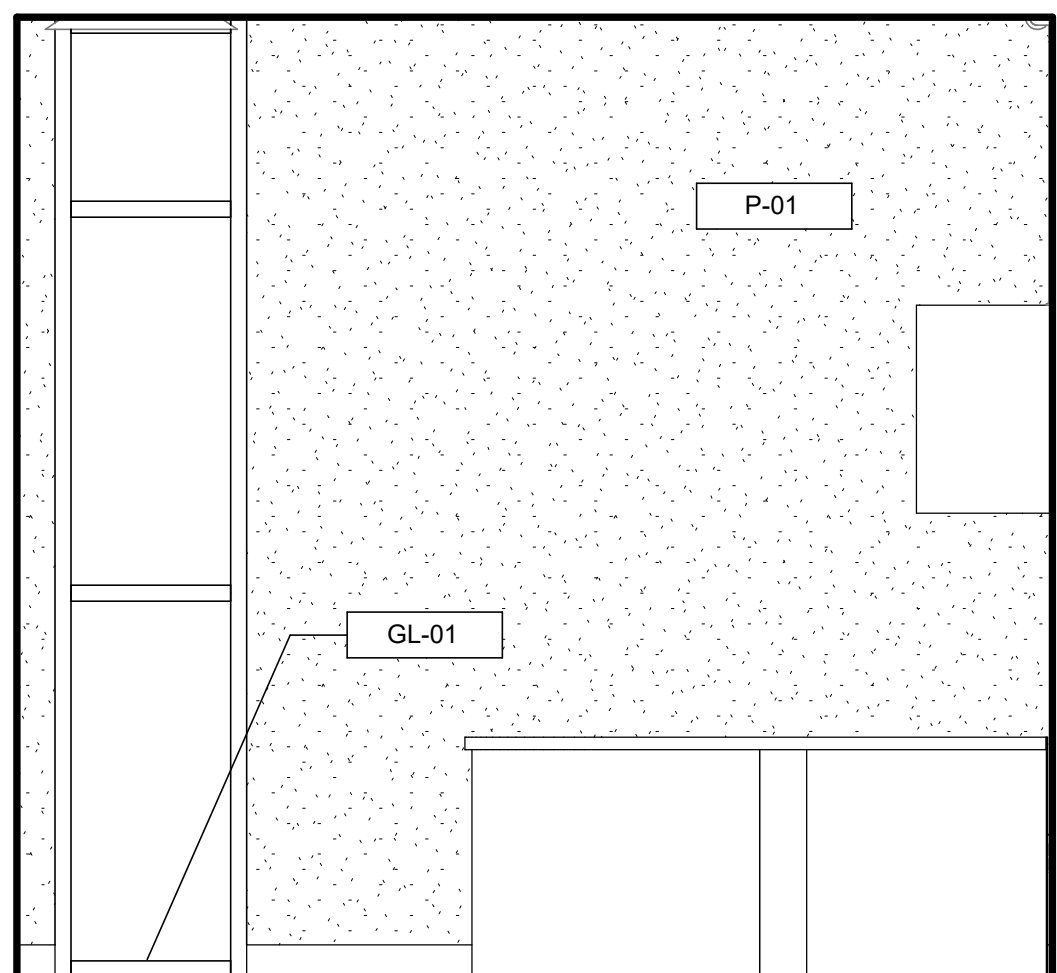
5 OFFICE 111 - NORTH
70-A411 SCALE: 1/2" = 1'-0"



7 OFFICE 111 - EAST
70-A411 SCALE: 1/2" = 1'-0"



8 OFFICE 111 - WEST
70-A411 SCALE: 1/2" = 1'-0"



9 OFFICE 111 - SOUTH
70-A411 SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. REFER TO GENERAL SHEETS FOR OTHER GENERAL NOTES.
2. REFER TO ALL CIVIL/MEP/STRUCTURAL SHEETS FOR REQUIRED WORK.
3. ALL DIMENSIONS ARE TO FACE OF CMU, GYP BD, OR CENTER LINE OF GRID.
4. INSIDE FACE OF DOOR FRAME JAMBS (HINGE SIDE) ARE LOCATED 6" MIN. FROM ADJACENT PERPENDICULAR WALLS (UNLESS NOTED OTHERWISE).
5. PROVIDE BLOCKING/BRACING FOR ALL WALL MOUNTED, ATTACHED, AND RECESSED EQUIPMENT AND FURNISHINGS AS RECOMMENDED BY MANUFACTURERS.
6. PROVIDE 1'-6" CLEAR AREA AT PULL SIDE OF DOORS.
7. PROVIDE 1'-0" CLEAR AREA AT PUSH SIDE OF DOORS WITH LATCH AND CLOSER.
8. REFER TO 70-A701 FOR FLOOR FINISHES.
9. REFER TO 70-A601 FOR DOOR TYPES & TYPICAL DETAILS.
10. SEE SPECIFICATIONS FOR HARDWARE SETS.
11. REFER TO 70-A501 FOR PARTITION SCHEDULE

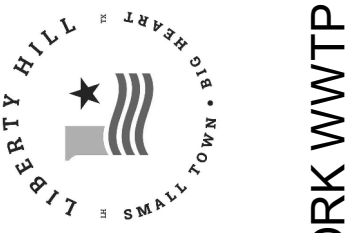


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REGISTRATION NO.
BR-60



REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM #6	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS
LIBERTY HILL NORTH FORK WWTP

ADMINISTRATION
BUILDING ENLARGED
PLAN OFFICE AREA

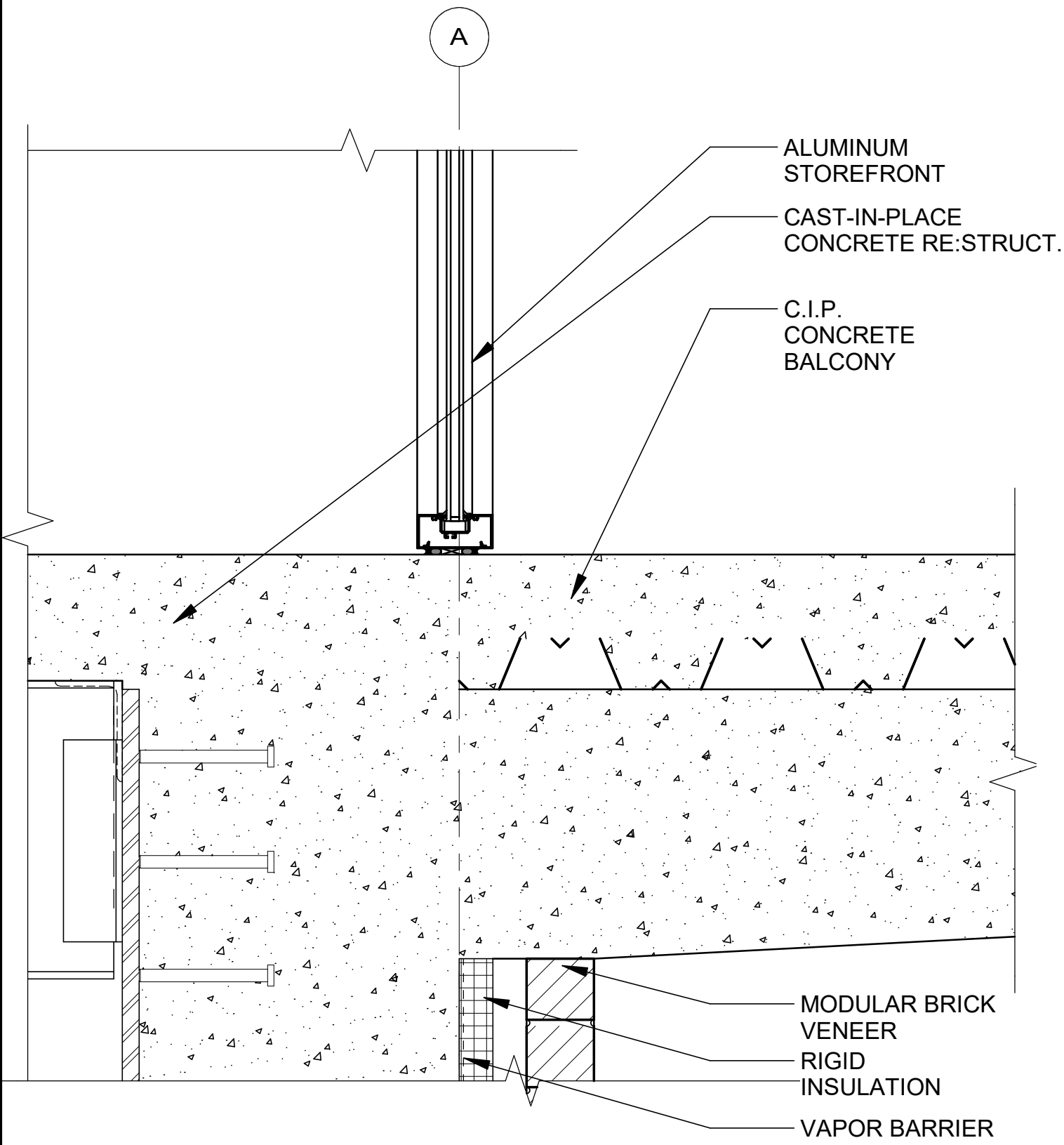
JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

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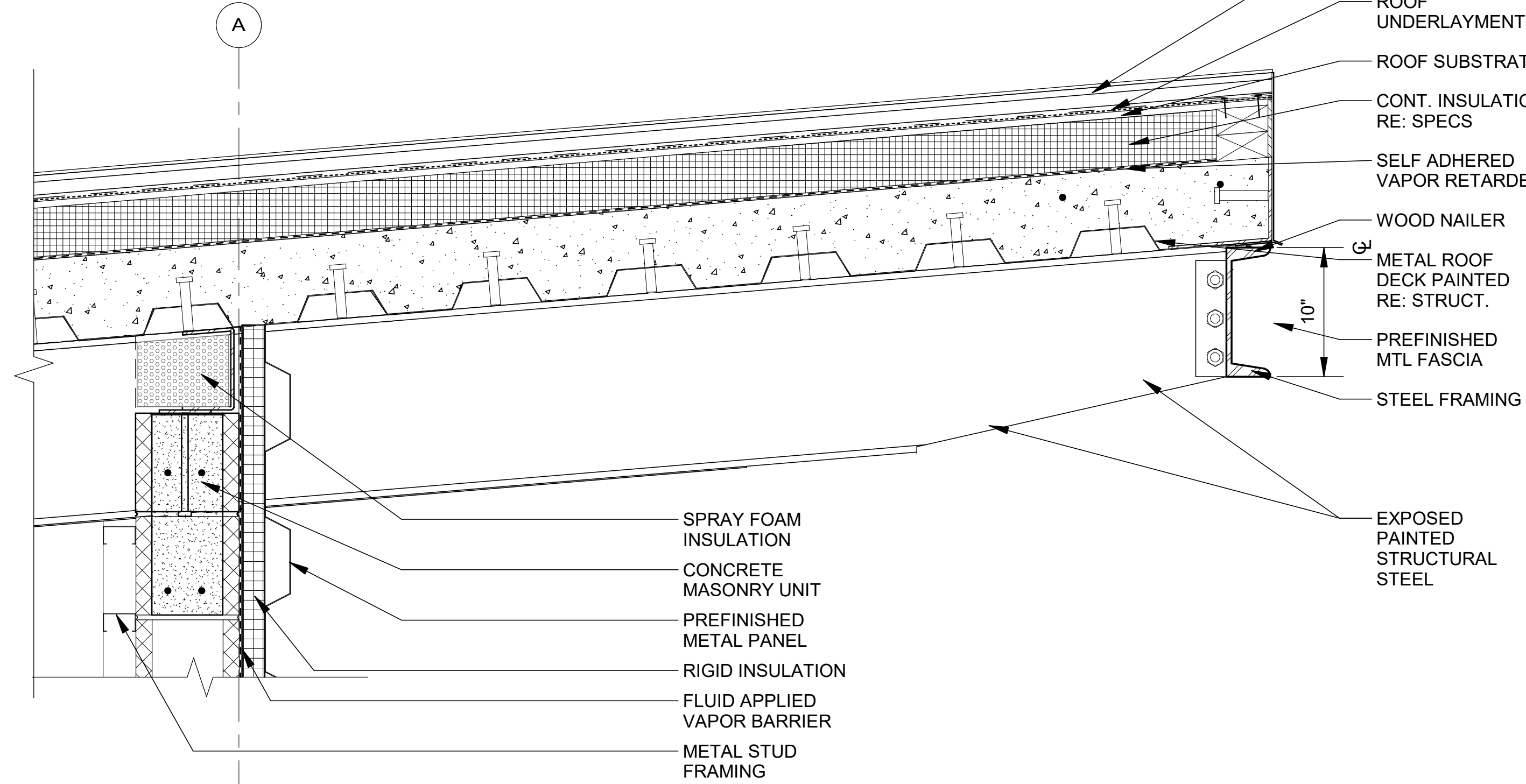
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DRAWING NUMBER
70-A411
SHEET NUMBER **487**

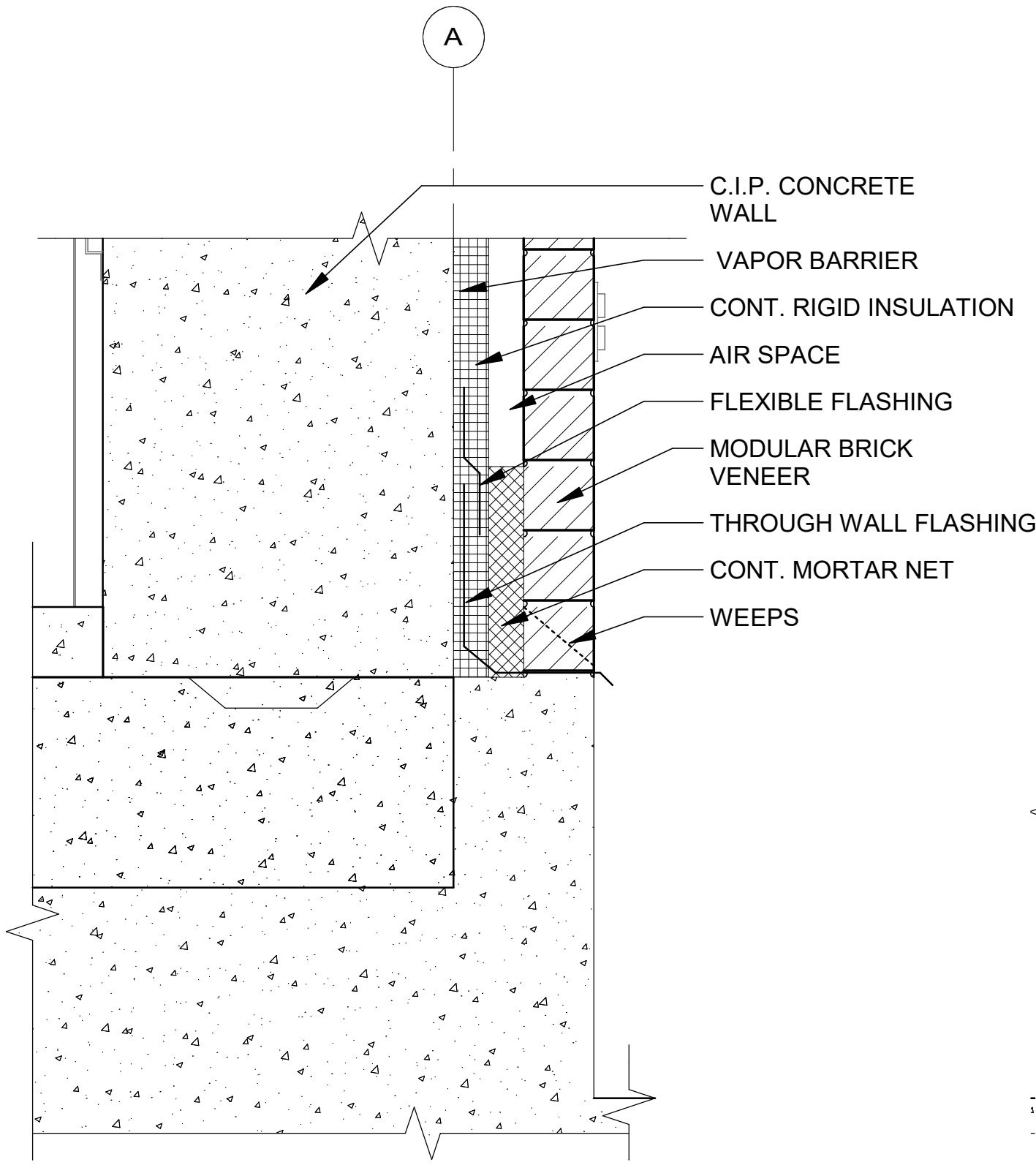
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Plot Date: 10/2/2026 10:49:04 AM



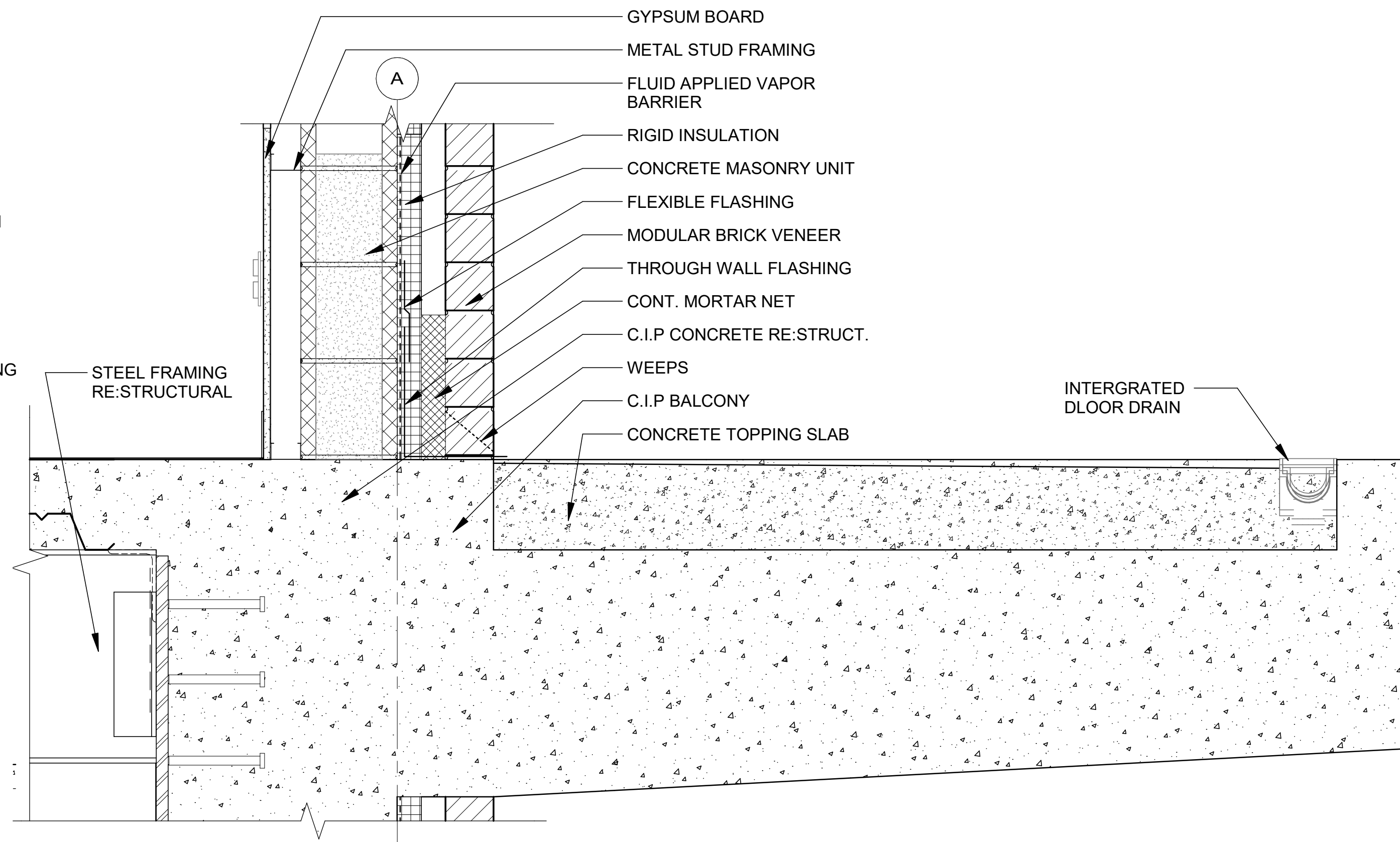
1 SECTION DETAIL
70-A305 SCALE: 1 1/2" = 1'-0"



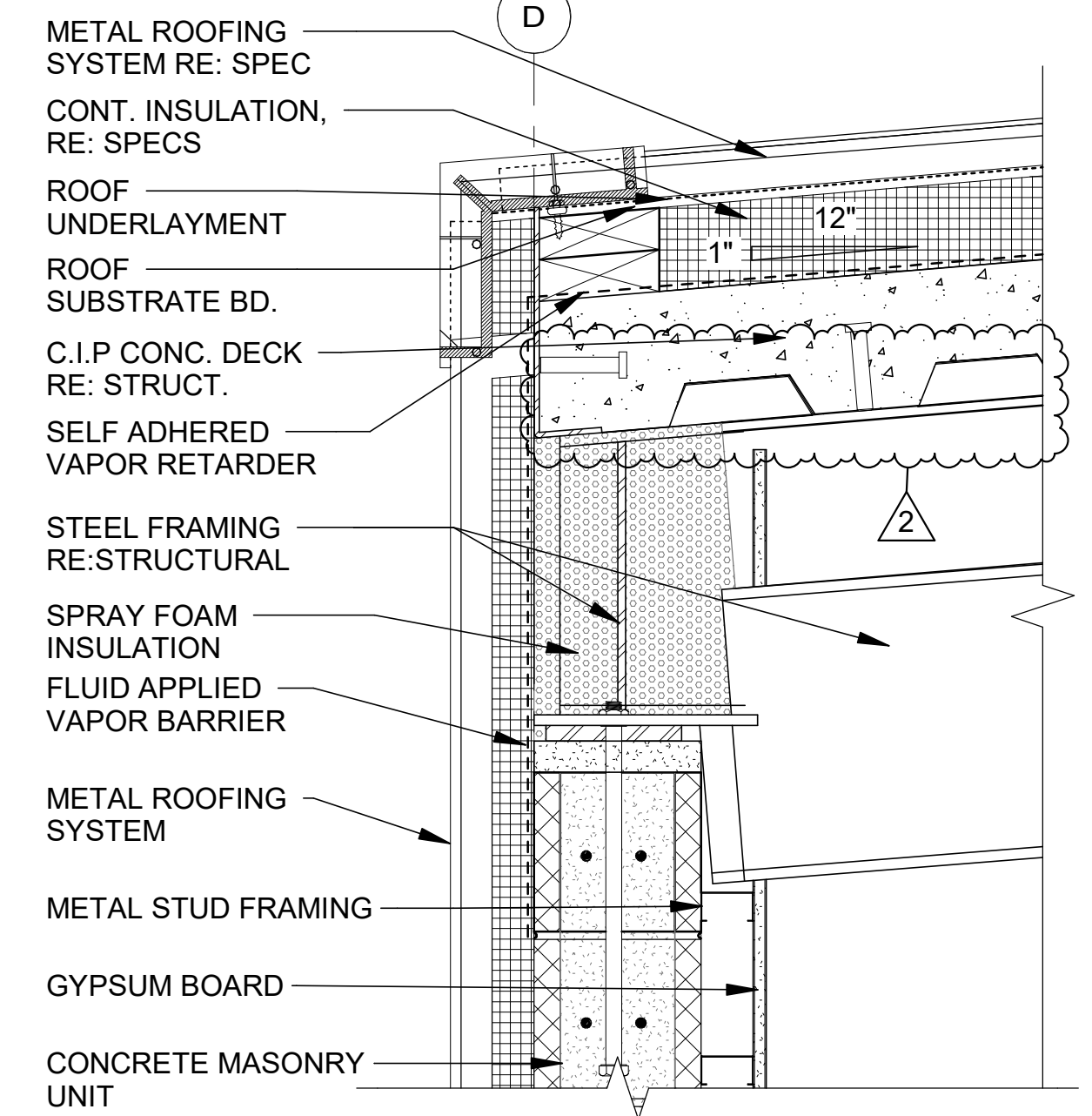
2 SECTION DETAIL
70-A304 SCALE: 1 1/2" = 1'-0"



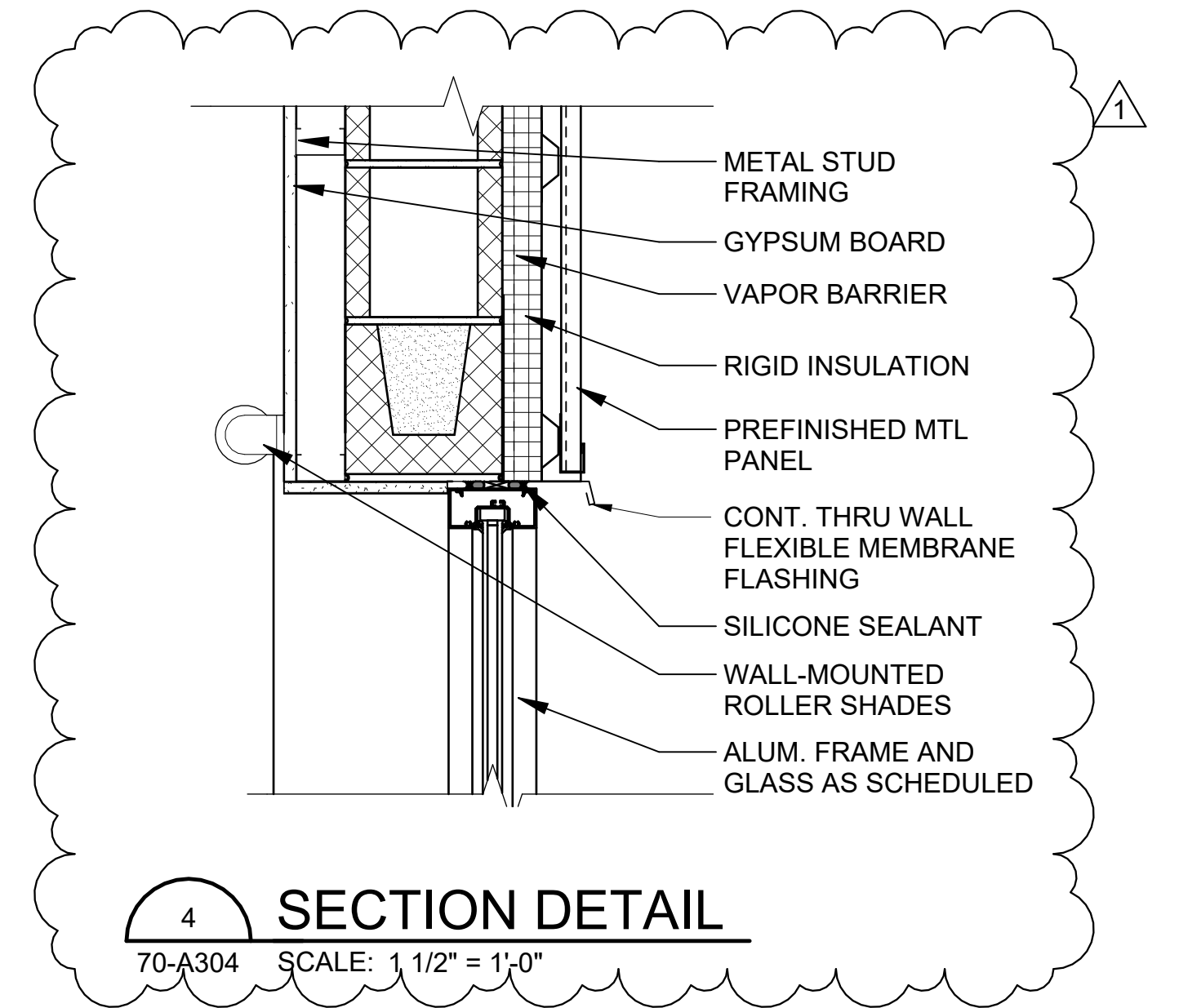
5 SECTION DETAIL
70-A306 SCALE: 1 1/2" = 1'-0"



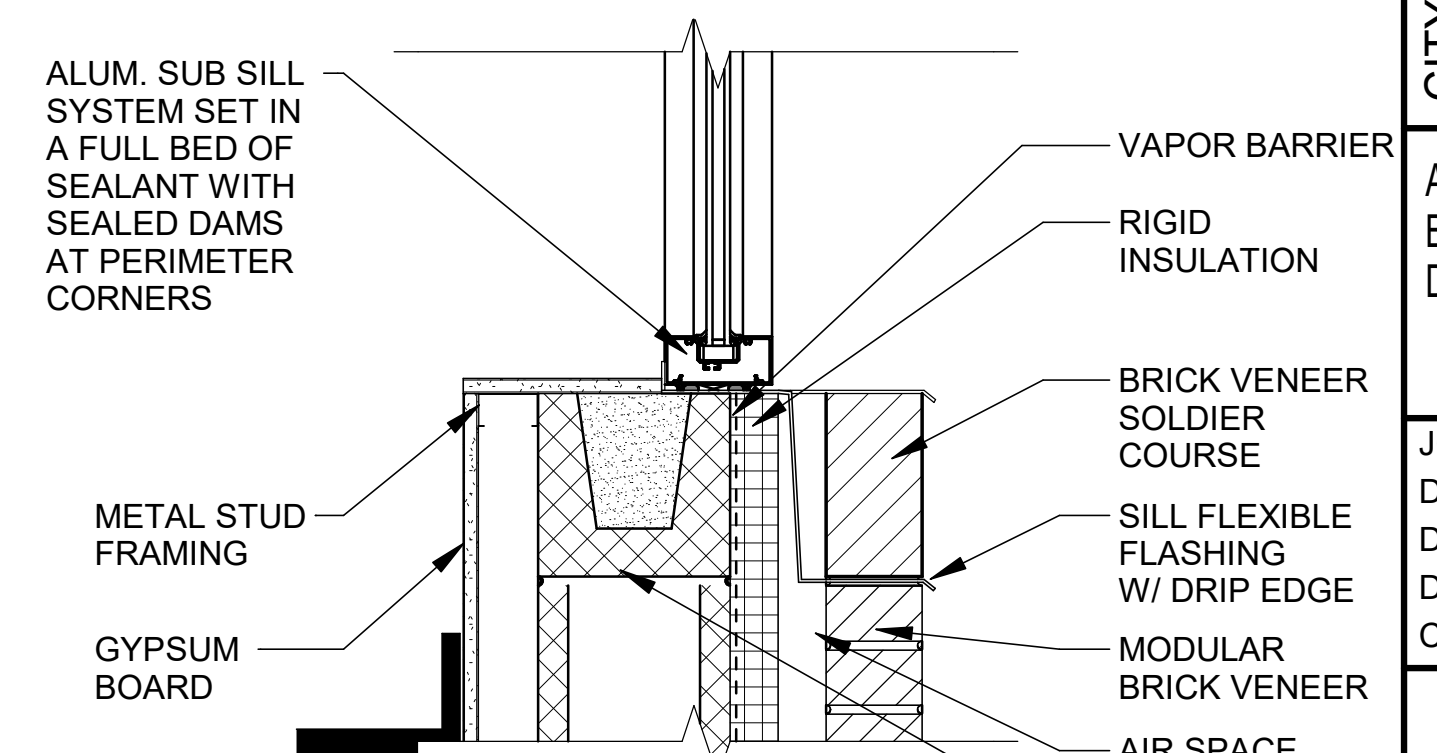
6 SECTION DETAIL
70-A306 SCALE: 1 1/2" = 1'-0"



3 SECTION DETAIL
70-A305 SCALE: 1 1/2" = 1'-0"



4 SECTION DETAIL
70-A304 SCALE: 1 1/2" = 1'-0"

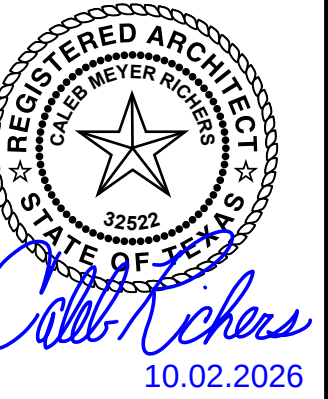


7 SECTION DETAIL
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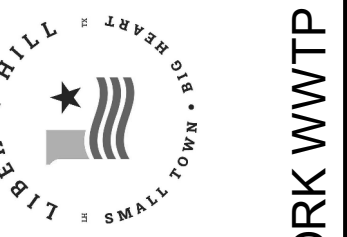


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REGISTRATION NO.
BR-60



REV	DATE	DESCRIPTION	BY
1	09/18/26	ADDENDUM #4	CMR
2	10/02/26	ADDENDUM #6	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS

LIBERTY HILL NORTH FORK WWTP

ADMINISTRATION
BUILDING SECTION
DETAILS

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

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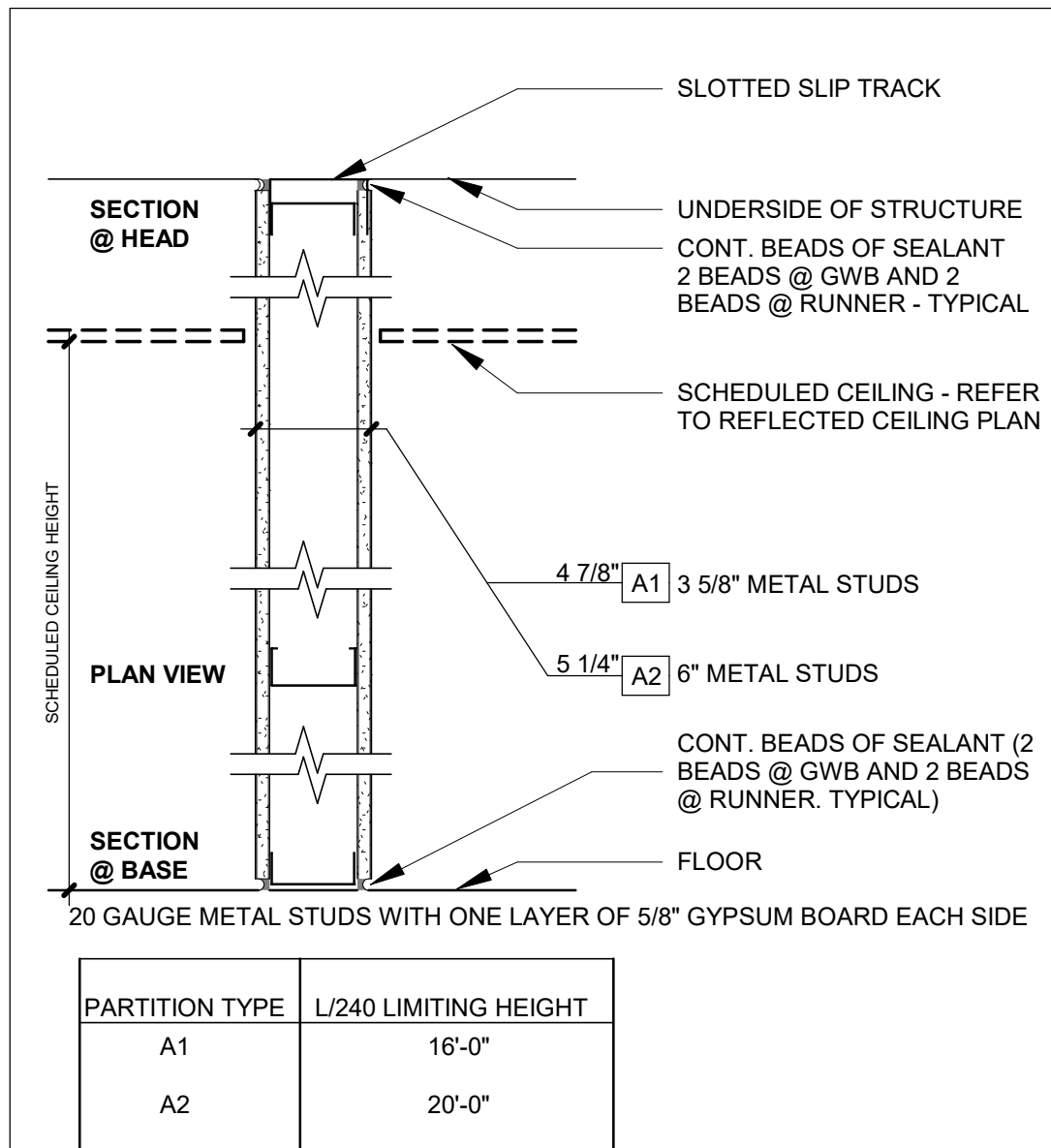
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DRAWING NUMBER

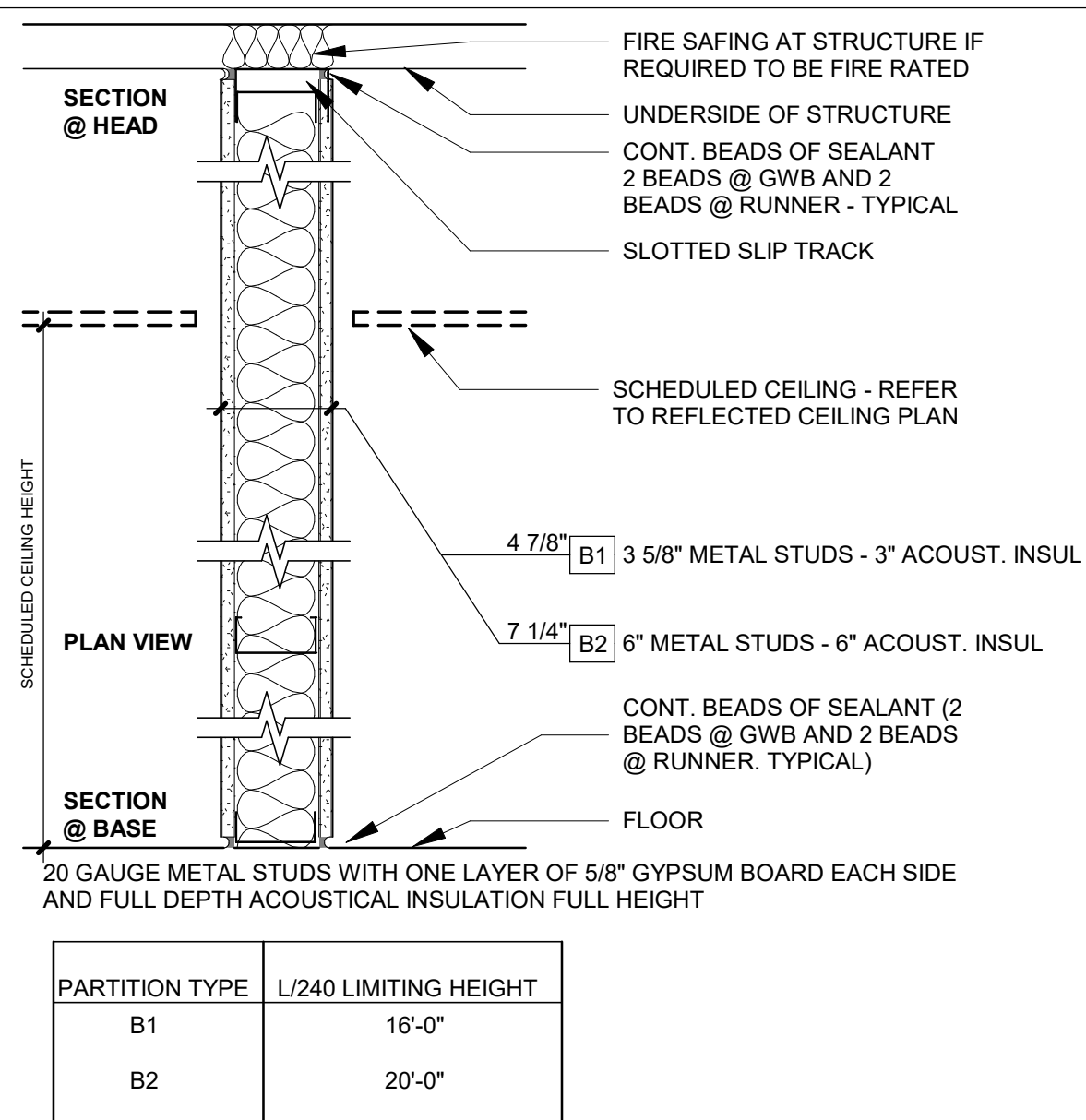
70-A503

SHEET
NUMBER **490**

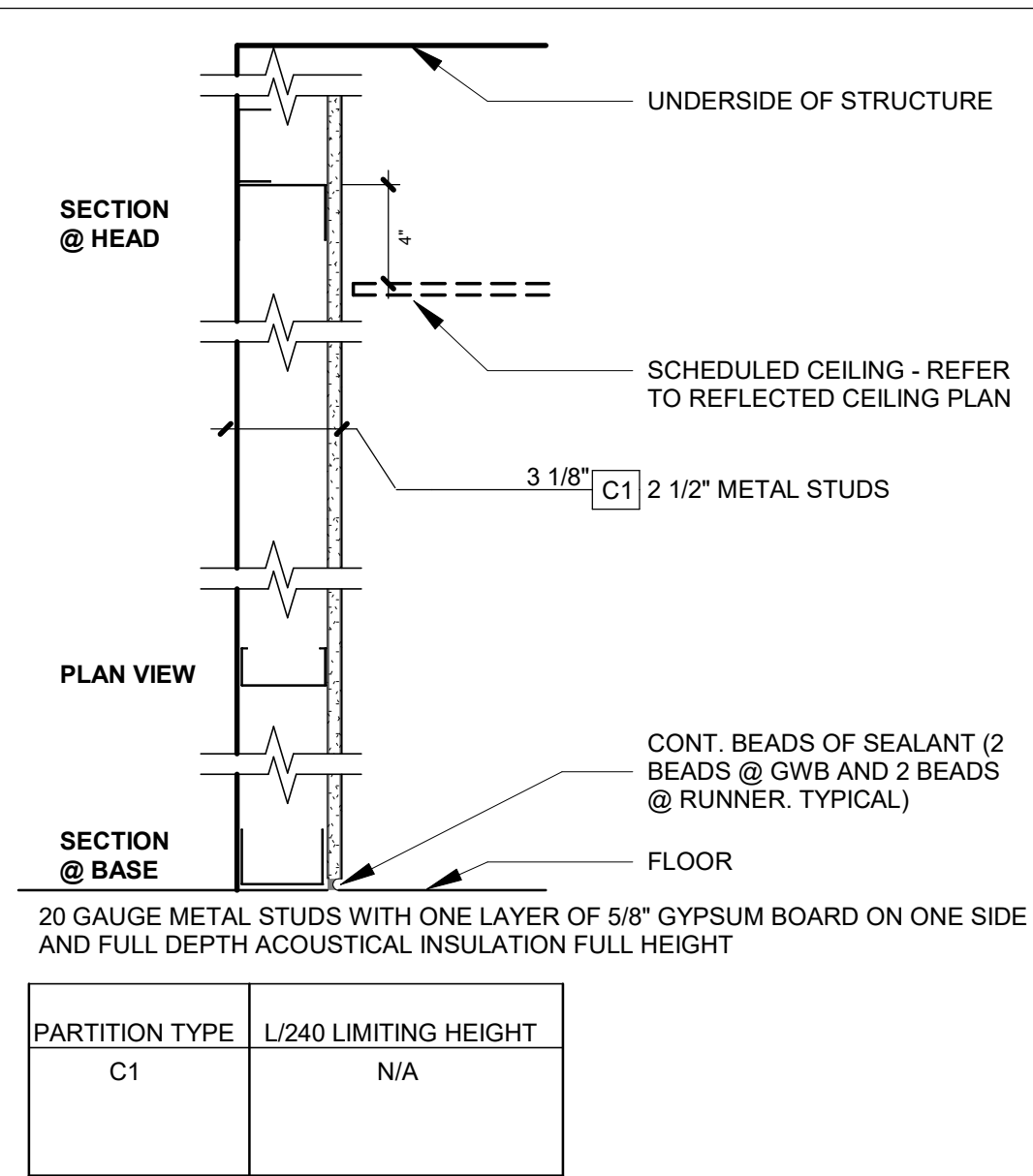
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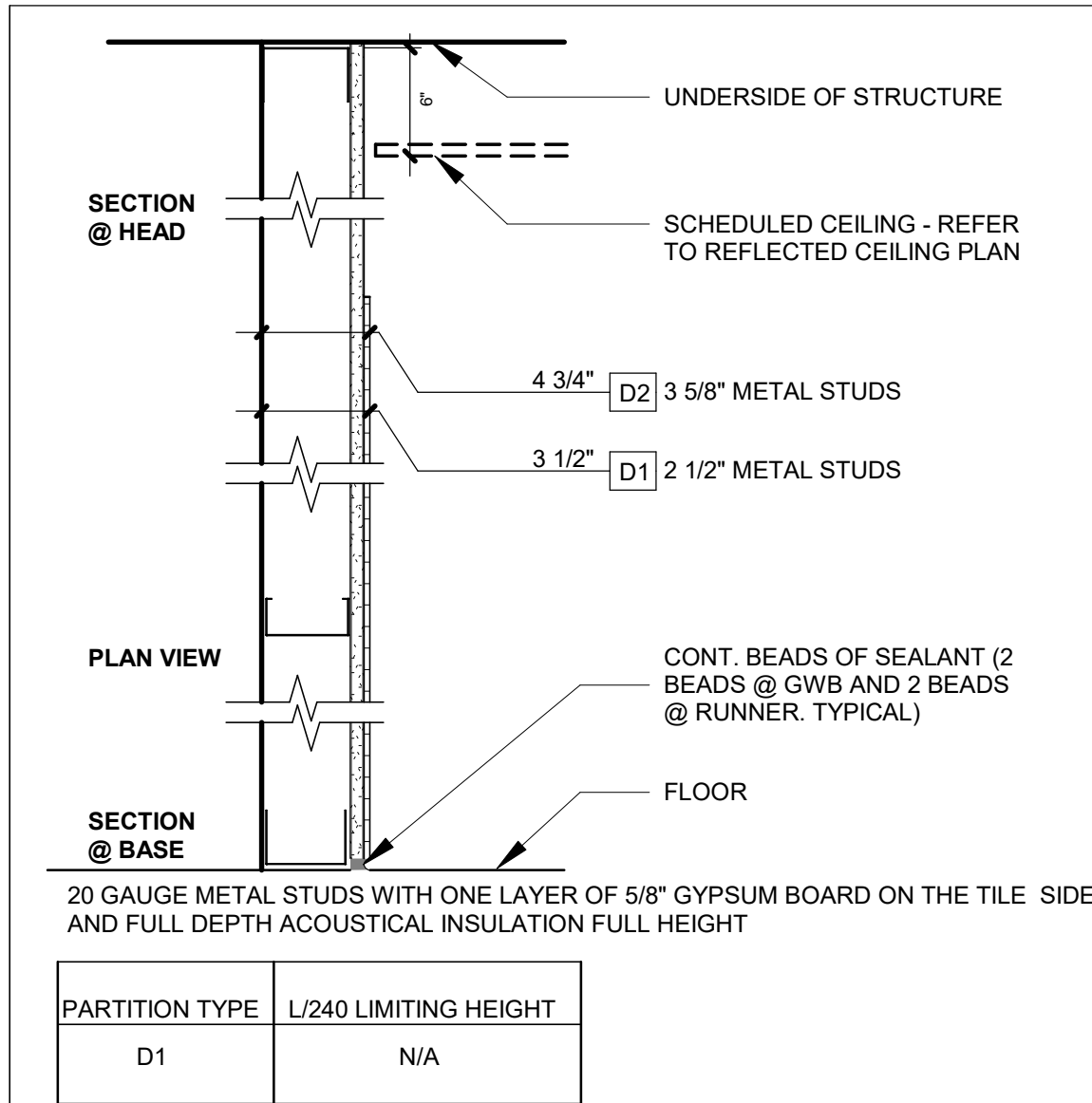
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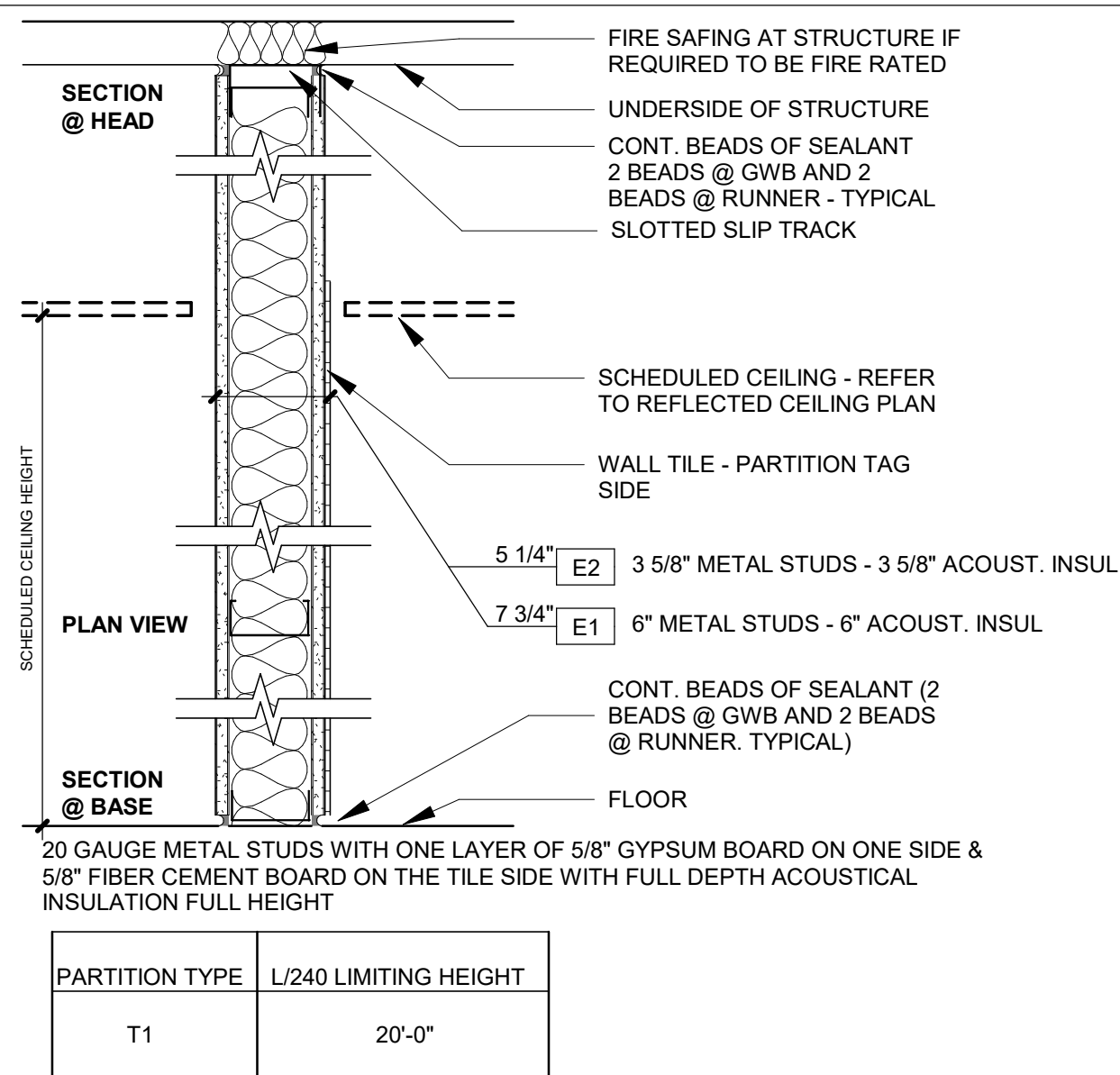
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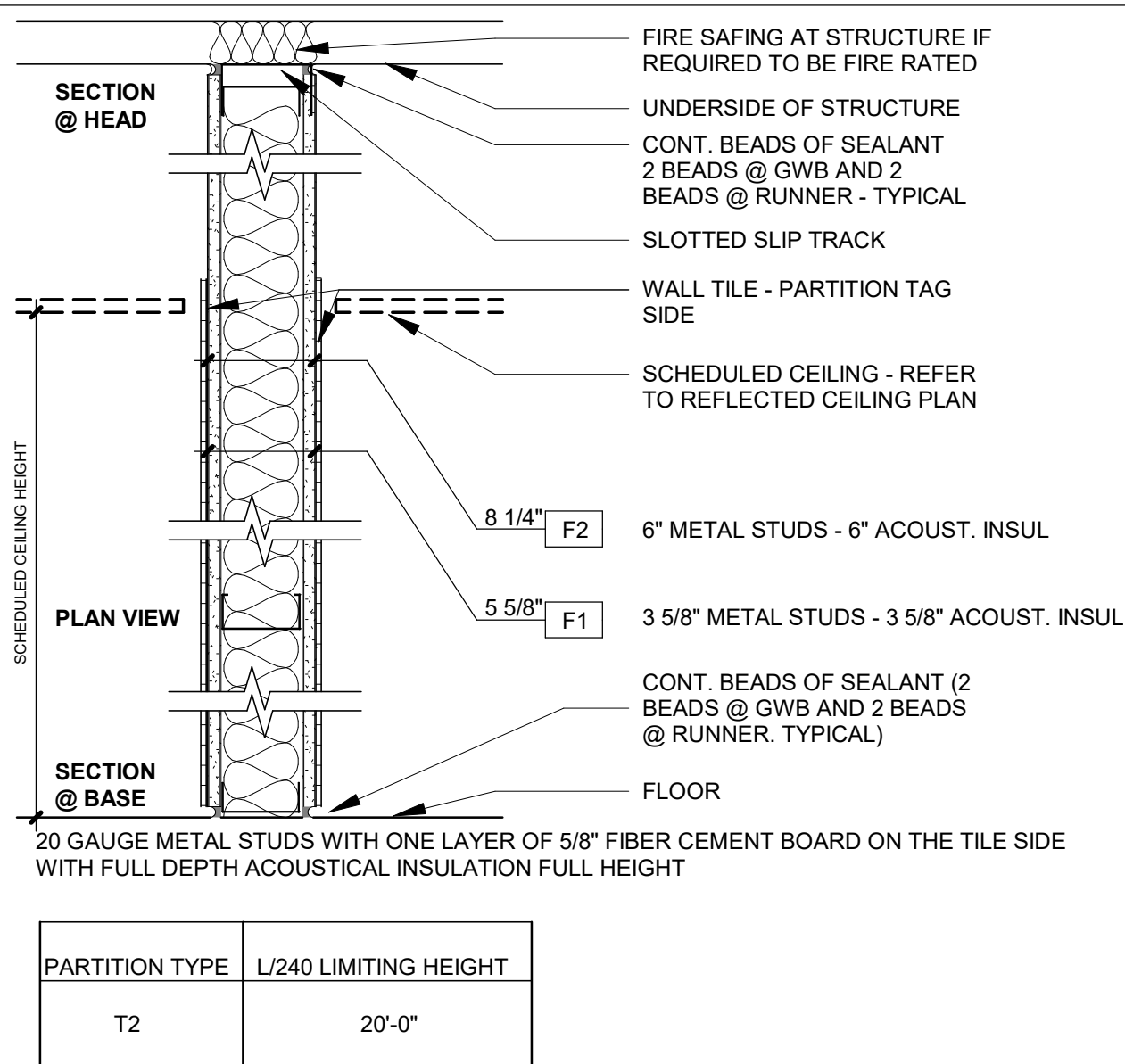
PARTITION TYPE - C



PARTITION TYPE - D

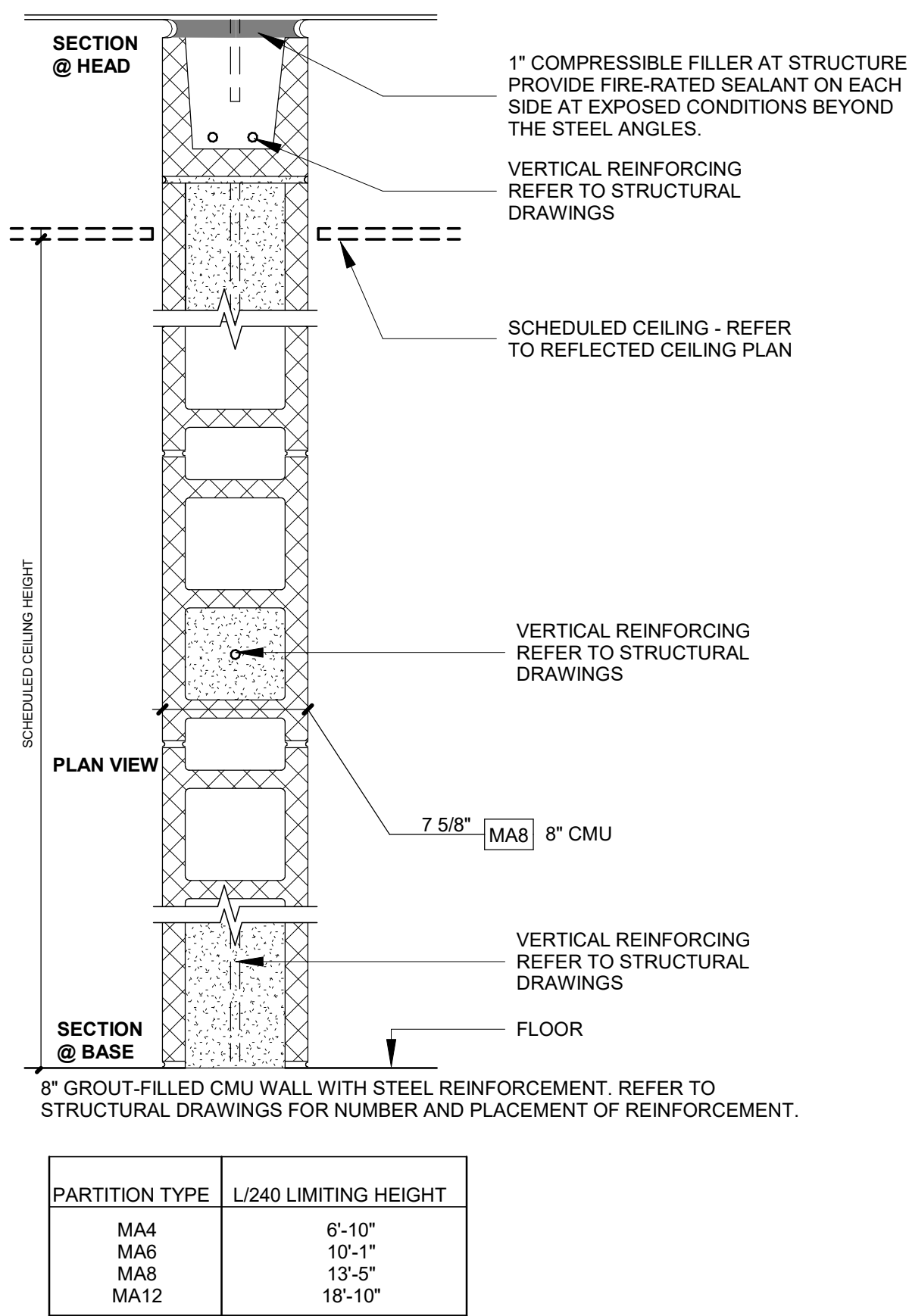


PARTITION TYPE - E

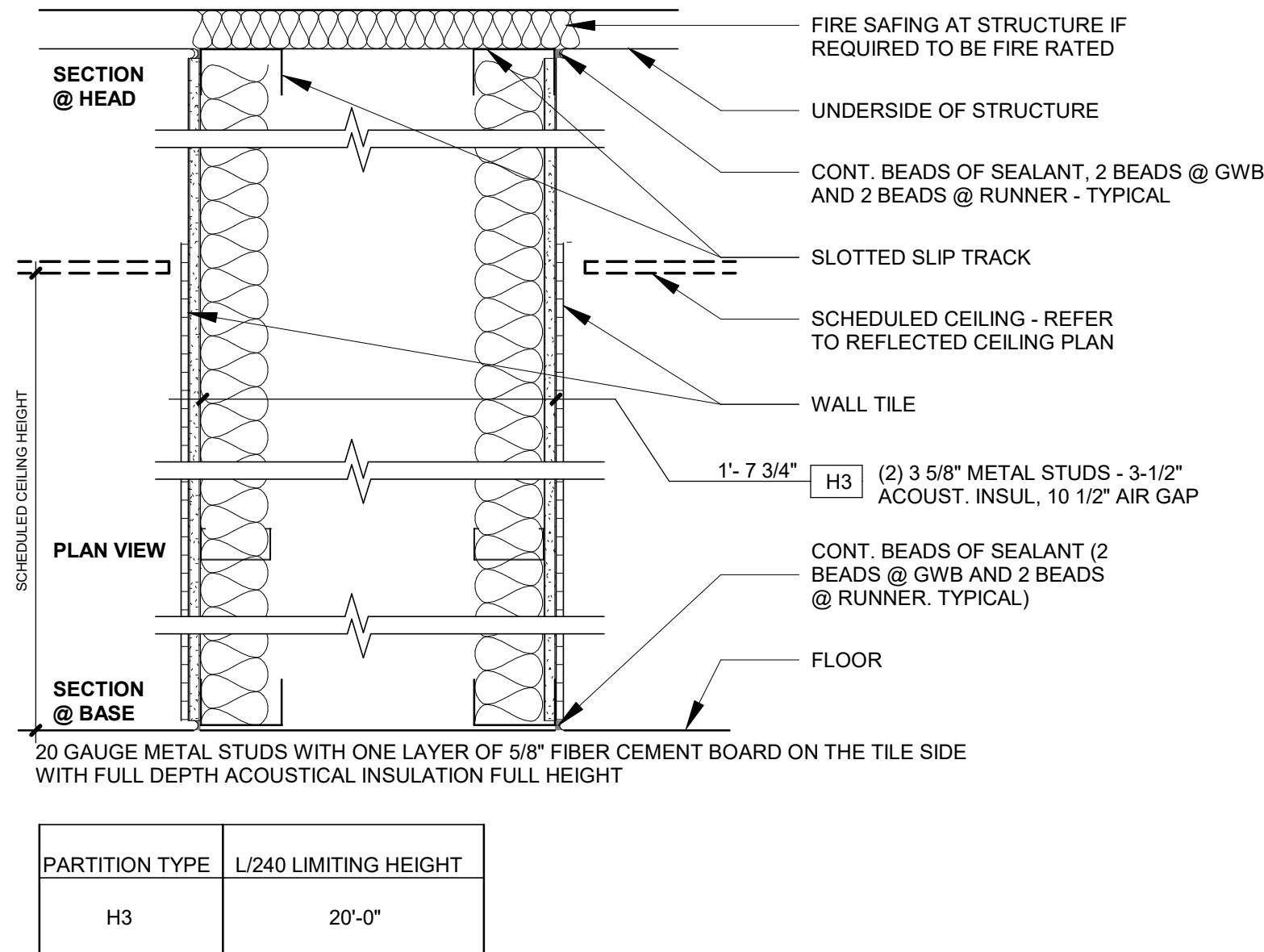


PARTITION TYPE - F

1. STUD SPACING TO BE 16" O.C. U.N.O. THE PROJECT MANDATORY MAXIMUM ALLOWABLE DEFLECTION DESIGN CRITERIA RATIO IS L/240 USING STUDS @ 16" O.C. WHERE "BRITTLE" FINISHES WILL BE APPLIED SUCH AS PLASTER OR CERAMIC TILE, MAX ALLOWABLE DEFLECTION CRITERIA RATIO IS L/360.
 2. THE LIMITING HEIGHTS INDICATED IN EACH PARTITION TYPE ARE THE MAXIMUM UNSUPPORTED HEIGHT FOR THAT PARTITION. IF PROJECT CONDITIONS NEED TO EXCEED THIS LIMIT, IT'S THE CONTRACTOR'S OPTION TO PROVIDE HEAVIER GAUGE STUDS, OR LESS SPACE BETWEEN STUDS, OR SUPPLEMENTAL BRACING TO SATISFY THE ALLOWABLE DEFLECTION DESIGN CRITERIA
-
3. SYMBOL DESCRIPTION
 4. ALL PARTITION TYPES SHOWN MAY NOT NEED TO BE FIRE RATED ASSEMBLIES. REFER TO PARTITION SYMBOL AND THE LIFE SAFETY PLAN FOR PARTITIONS WHICH MUST BE FIRE RATED
 5. WHEN EVER A FIRE RATED PARTITIONS IS INDICATED ALL ELEMENTS OF THE COMPLETE ASSEMBLY MUST BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY REQUIREMENTS
 6. PROVIDE "WATER RESISTANT" GYPSUM BOARD AS THE SUBSTRATE FOR CERAMIC TILE. OR BACKER BOARD SUBSTRATE FOR CERAMIC TILE IN WET CONDITIONS. IF THE BACKER BOARD IS BEING SUBSTITUTED FOR ONE OF THE GYPSUM BOARD LAYERS IT MUST HAVE APPROVED FIRE RATING CERTIFICATION.
 7. THE STC RATINGS LISTED ARE TO SERVE AS A GENERAL INDICATOR OF THE ACOUSTICAL PERFORMANCE OF THAT PARTITION, HOWEVER, SPECIFIC PROJECT CONDITIONS MAY NOT NECESSARILY YIELD THE LABORATORY TESTED RESULTS
 8. ALL PARTITION TYPES INDICATED ON THIS DRAWING MAY NOT NECESSARILY BE USED ON THIS SPECIFIC PHASE OF THE PROJECT.



PARTITION TYPE - MA



PARTITION TYPE - H

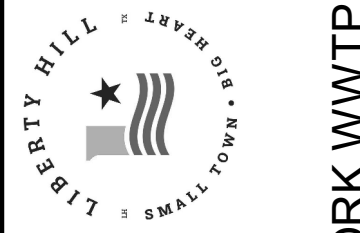


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REGISTRATION NO.
BR-60



BY	CMR		
DESCRIPTION	ADDENDUM #6		
DATE	10/02/26		
REV	1		



CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS

ADMINISTRATION
BUILDING PARTITION
TYPES

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: CIW
CHECKED BY: CMR

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DRAWING NUMBER
70-A507
SHEET NUMBER **494**

LIBERTY HILL NORTH FORK WWTP

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Plot Date: 10/2/2026 11:15:42 AM

DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR PANEL					FRAME		DETAILS			FIRE RATING	HARDWARE	NOTES/REMARKS
		TYPE	MATERIAL	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	HEAD	JAMB	SILL			
BASEMENT LEVEL														
101A	ELECTRICAL ROOM	C	HMD	6' - 4"	9' - 0"	1 3/4"	HM-2	HMF	9/70-A604	11/70-A604	4/70-A604	90MIN	HW-2.0	
101B	ELECTRICAL ROOM	A	HMD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	5/70-A605	10/70-A604	4/70-A604		HW-2.1	
102A	COORDOR	C	HMD	6' - 4"	9' - 0"	1 3/4"	HM-2	HMF	9/70-A604	11/70-A604	4/70-A604		HW-2.0	
103A	COORDOR	A	HMD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	5/70-A605	10/70-A604	4/70-A604	90MIN	HW-1.6	
103B	STORAGE/MAINT.	D	ISP	16' - 0"	10' - 0"	2"	OH-1	-	1/70-A605	2/70-A605	3/70-A605	---	HW-3.0	OVERHEAD COILING DOOR
103C	STORAGE/MAINT.	A	HMD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	11/70-A604	4/70-A604	---	HW-1.0	

LOWER LEVEL

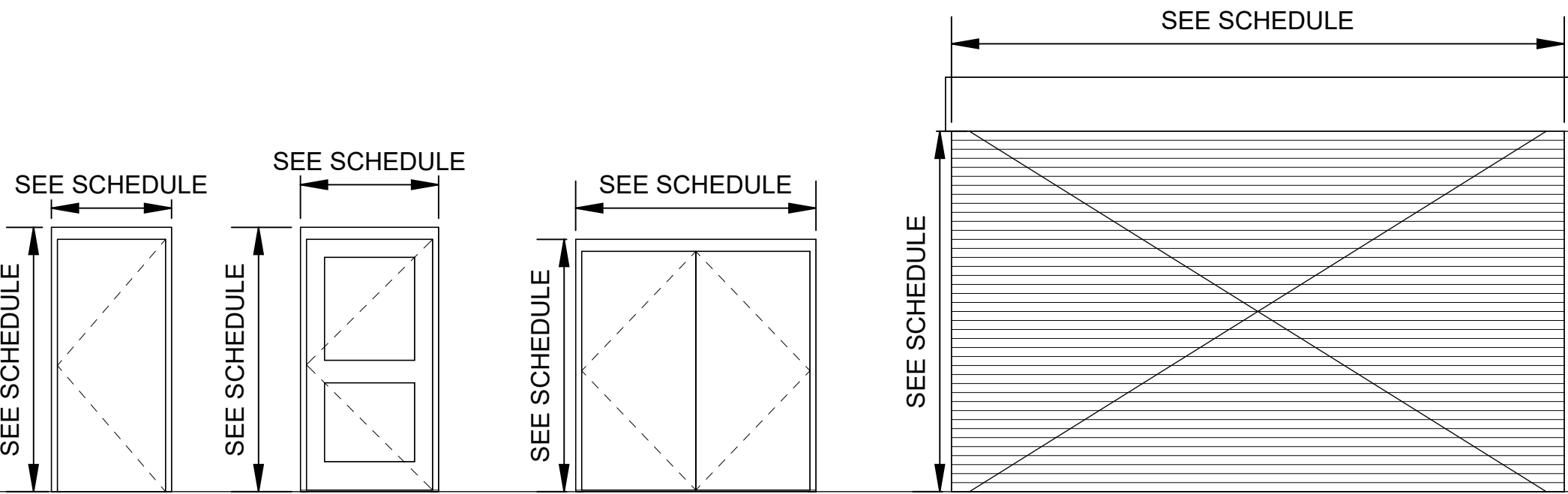
104A	CONTROL ROOM	B	AL/TG	3' - 0"	7' - 0"	1 3/4"	-	-	1/70-A604	6/70-A604	5/70-A604	---	HW-1.11	ALL-GLASS STOREFRONT DOOR
104B	CONTROL ROOM	B	AL/TG	3' - 0"	8' - 0"	1 3/4"	-	-	7/70-A604	10/70-A604	5/70-A604	---	HW-1.0	ALL-GLASS STOREFRONT DOOR
105	STORAGE	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
106A	CORRIDOR	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
106B	LAB	B	AL/TG	3' - 0"	8' - 0"	1 3/4"	-	-	7/70-A604	10/70-A604	5/70-A604	---	HW-1.0	ALL-GLASS STOREFRONT DOOR
107A	CORRIDOR	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.3	STAINED FINISH, RE: SPECS
107B	CORRIDOR	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.3	STAINED FINISH, RE: SPECS
107C	BREAK ROOM	B	AL/TG	3' - 0"	7' - 10"	1 3/4"	-	-	7/70-A604	10/70-A604	5/70-A604	---	HW-1.0	ALL-GLASS STOREFRONT DOOR
108	BREAK ROOM	C	WD	6' - 0"	7' - 0"	1 3/4"	HM-2	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-2.1	STAINED FINISH, RE: SPECS; FLUSH BOLTS ON INACTIVE LEAF
109	OFFICE	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.3	STAINED FINISH, RE: SPECS
111	OFFICE	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.3	STAINED FINISH, RE: SPECS
112	LOBBY	B	AL/TG	3' - 0"	7' - 10"	1 3/4"	-	-	2/70-A604	7/70-A604	5/70-A604	---	HW-1.10	ALL-GLASS STOREFRONT DOOR
114	CORRIDOR	B	AL/TG	3' - 2"	7' - 10"	1 3/4"	-	-	1/70-A604	6/70-A604	5/70-A604	---	HW-1.11	ALL-GLASS STOREFRONT DOOR
115	RESTROOM	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
116	RESTROOM	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
117	MECHANICAL	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
118	RR/SHOWER	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
120	RR/SHOWER	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
121	CORRIDOR	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
122	UTILITY	A	WD	3' - 0"	7' - 0"	1 3/4"	HM-1	HMF	3/70-A604	4/70-A605	4/70-A604	---	HW-1.4	STAINED FINISH, RE: SPECS
125	CORRIDOR	B	AL/TG	6' - 4"	7' - 11"	1 3/4"	-	-	2/70-A604	7/70-A604	5/70-A604	---	HW-2.5	ALL-GLASS STOREFRONT PAIR OF DOORS

ROOM FINISH SCHEDULE

ROOM			FINISHES				NOTES/REMARKS
NO.	NAME	AREA	WALL	BASE	FLOOR	CEILING	
101	ELECTRICAL ROOM	1,699 SF	SC	-	SC	-	
102	COORDOR	384 SF	SC	-	SC	-	
103	STORAGE/MAINT.	1,685 SF	SC	-	SC	-	

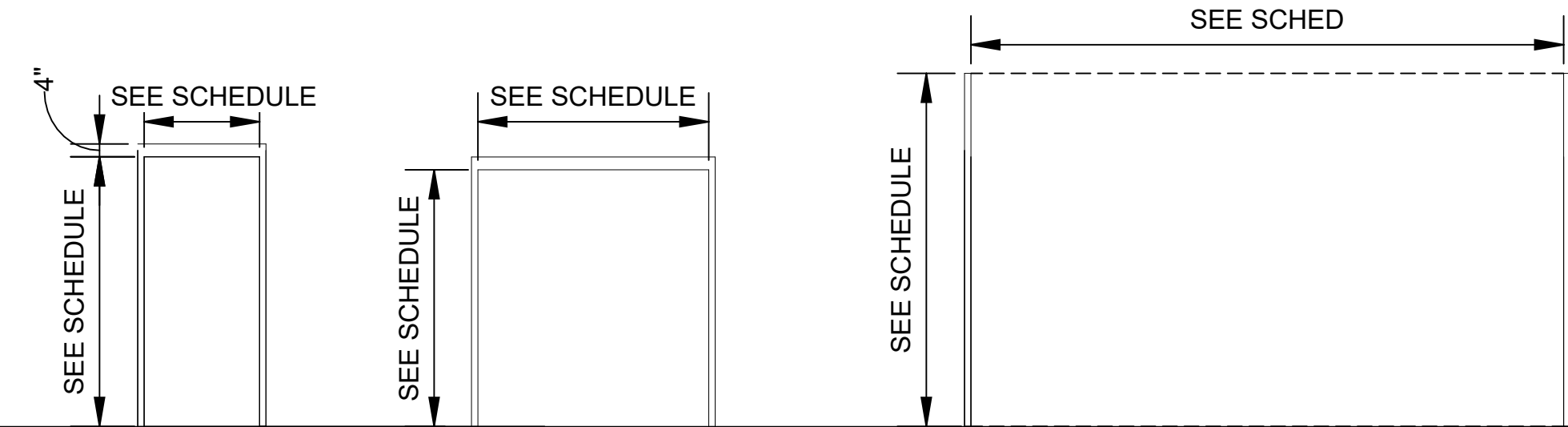
LOWER LEVEL

104	CONTROL ROOM	284 SF	P-01	VWB	CPT	PT-01	
105	STORAGE	74 SF	P-01	VWB	EFS	-	
106	LAB	259 SF	P-01	VWB	EFS	PT-01	
107	BREAK ROOM	512 SF	P-01	VWB	LVT-02	-	
108	STORAGE	52 SF	P-01	VWB	LVT-02	-	
109	OFFICE	118 SF	P-01	VWB	CPT	ACT	
110	COPY RM	60 SF	P-01	VWB	LVT-01	-	
111	OFFICE	155 SF	P-01	VWB	CPT	ACT	
112	LOBBY	83 SF	P-01	VWB	LVT-01	-	
113	SHARED OFFICE	215 SF	P-01	VWB	CPT	-	
114	CORRIDOR	624 SF	P-01	VWB	LVT-01	-	
115	RESTROOM	59 SF	PWT	PTB	PFT	PT-01	
116	RESTROOM	56 SF	PWT	PTB	PFT	PT-01	
117	IT SCADA	71 SF	P-01	VWB	SDT	ACT	
118	RR/SHOWER	101 SF	PWT	PTB	PFT	PT-01	
119	UTILITY	160 SF	P-01	VWB	SC	-	
120	RR/SHOWER	108 SF	PWT	PTB	PFT	PT-01	
121	MECHANICAL	154 SF	P-01	VWB	SDT	ACT	
122	JANITOR CLOSET	42 SF	P-01	VWB	SC	PT-01	



A FLUSH DOOR PANEL
B CURTAIN WALL DOOR
C FLUSH DOUBLE DOOR PANEL
D OVERHEAD COILING DOOR

DOOR TYPES



HOLLOW METAL FRAME FOR DOOR - PAINT FINISH

FRAME TYPES

HARDWARE SET: 1.0 (EXTERIOR EGRESS - PANIC)

- (1) CONTINUOUS HINGE - CFM_SLF-HD1 - PE
- (1) RIM PANIC - 6100 x NL x FACILITY KEYING - 630 - YA
- (1) CYLINDER CORE - A600 x MK - 626 - YA
- (1) SURFACE CLOSER - UNI4400 - 689 - YA
- (1) KICK PLATE - K1050 10" HIGH x LDW CSK - US32D - RO
- (1) HD THRESHOLD - 1715 x WIDTH - PE
- (1) PERIMETER SEAL - BY DOOR / FRAME MFR - PE
- (1) SWEEP - 315CN x WIDTH - PE
- (1) DOOR STOP - 441 CU EXP - US32D - RO

HARDWARE SET: 1.1 (STOREROOM - STANDARD HM)

- (1) CONTINUOUS HINGE - CFM_SLF-HD1 - PE
- (1) STOREROOM LOCKSET - 4705LN - 626 - YA
- (1) CYLINDER CORE - A600 x MK - 626 - YA
- (1) SURFACE CLOSER - UNI4400 - 689 - YA
- (1) KICK PLATE - K1050 - US32D - RO
- (1) THRESHOLD - 1715 x WIDTH - PE
- (1) SWEEP - 315CN - PE
- (1) DOOR STOP - 441 - RO

HARDWARE SET: 1.2 (PRIVACY - STANDARD HM)

- (1) CONTINUOUS HINGE - CFM_SLF-HD1 - PE
- (1) PRIVACY LATCHSET - 4702LN - 626 - YA
- (1) SURFACE CLOSER - UNI4400 - 689 - YA
- (1) KICK PLATE - K1050 10" HIGH x LDW CSK - US32D - RO
- (1) THRESHOLD - 1715 x WIDTH - PE
- (1) SWEEP - 315CN x WIDTH - PE
- (1) DOOR STOP - 441 CU EXP - US32D - RO

HARDWARE SET: 1.3 (ENTRY - STANDARD HM)

- (1) CONTINUOUS HINGE - CFM_SLF-HD1 - PE
- (1) ENTRY LOCKSET - 4704LN - 626 - YA
- (1) CYLINDER CORE - A600 x MK - 626 - YA
- (1) SURFACE CLOSER - UNI4400 - 689 - YA
- (1) KICK PLATE - K1050 - US32D - RO
- (1) THRESHOLD - 1715 x WIDTH - PE
- (1) SWEEP - 315CN - PE
- (1) DOOR STOP - 441 - RO

HARDWARE SET: 3.0 OVERHEAD COILING DOOR

- ALL HARDWARE BY MANUFACTURER
- COORDINATE LOCKING WITH OWNER

HARDWARE SET: 1.6 (FIRE-RATED STOREROOM)

- (1) CONTINUOUS HINGE - CFM_SLF-HD1 - PE
- (1) STOREROOM LOCKSET (LABELED) - YA
- (1) CYLINDER CORE - A600 - YA
- (1) SURFACE CLOSER - UNI4400 - YA
- (1) SMOKE SEAL - PE
- (1) PERIMETER SEAL - PE
- (1) SWEEP - 315CN - PE
- (1) DOOR STOP - 441 - RO

1.10 - SINGLE STOREFRONT DOOR (KEYPAD ENTRY)

- (1) PIVOT HINGE OR STOREFRONT HINGE - BY DOOR MFR - PE
- (1) NARROW STILE ELECTRIFIED LOCK OR STRIKE - 626 - YA
- (1) KEYPAD DEVICE - BY SECURITY
- (1) CYLINDER CORE - A600 x MK - 626 - YA
- (1) CLOSER (CONCEALED OR SURFACE) - AS REQUIRED - YA
- (1) THRESHOLD - BY STOREFRONT SYSTEM - PE
- (1) SWEEP - BY STOREFRONT SYSTEM - PE
- (1) DOOR STOP - 441 - RO

HARDWARE SET: 1.11 (STOREFRONT ENTRY - DERIVED FROM 1.3)

- (1) PIVOT HINGE OR STOREFRONT HINGE - BY DOOR MFR - PE
- (1) CLOSER (CONCEALED OR SURFACE) - AS REQUIRED - YA
- (1) DOOR BOTTOM / SWEEP - BY STOREFRONT SYSTEM - PE
- (1) DOOR STOP - 441 - RO

HARDWARE SET: 2.0 (EXTERIOR EGRESS - PANIC)

- (2) CONTINUOUS HINGE - CFM_SLF-HD1 - PE
- (2) SVR PANIC - 6170 LBR NL - 630 - YA
- (1) CYLINDER CORE - A600 x MK - 626 - YA
- (2) SURFACE CLOSER - UNI4400 - 689 - YA
- (1) PERIMETER SEAL - PE
- (2) KICK PLATE - K1050 - US32D - RO
- (1) THRESHOLD - 1715 - PE
- (2) SWEEP - 315CN - PE
- (2) DOOR STOP - 441 - RO

HARDWARE SET: 2.1 (STOREROOM - STANDARD HM PAIR)

- (2) CONTINUOUS HINGE - CFM_SLF-HD1 - PE
- (1) STOREROOM LOCKSET - 4705LN - 626 - YA
- (1) CYLINDER CORE - A600 x MK - 626 - YA
- (2) SURFACE CLOSER - UNI4400 - 689 - YA
- (2) KICK PLATE - K1050 - US32D - RO
- (1) THRESHOLD - 1715 x WIDTH - PE
- (2) SWEEP - 315CN - PE
- (2) DOOR STOP - 441 - RO

HARDWARE SET: 2.5 (ACCESS CONTROL)

- (2) CONTINUOUS HINGE - CFM_SLF-HD1 - PE
- (1) RIM PANIC - 6100 x NL x FACILITY KEYING - 630 - YA
- (1) ELECTRIFIED LOCK OR STRIKE - 626 - YA
- (1) CARD READER - BY SECURITY
- (1) CYLINDER CORE - A600 x MK - 626 - YA
- (2) SURFACE CLOSER - UNI4400 - 689 - YA
- (1) THRESHOLD - 1715 x WIDTH - PE
- (2) SWEEP - 315CN x WIDTH - PE
- (2) DOOR STOP - 441 CU EXP - US32D - RO



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REGISTRATION NO.
BR-60



BY CMR
CMR

DESCRIPTION
ADDENDUM #4
ADDENDUM #6

DATE
09/18/26
10/02/26

REV
1
2

CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS

LIBERTY HILL NORTH FORK WWTP

ADMINISTRATION
BUILDING
SCHEDULES

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

DRAWING NUMBER
70-A601

SHEET
NUMBER **495**

Revit File: AutodesK Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_70_ADMINISTRATION BUILDING_ARCHITECTURAL.rvt
Plot Date: 10/2/2026 10:49:07 AM

HOOD SHALL BE SUPPLIED
AS STANDARD WITH AN 8"
PVC BAFFLE, PROVIDING
WEATHERSEAL AT THE TOP
OF DOOR

HSS RE:
STRUCTURE
RIGID INSULATION
CONT. MORTAR NET
AIR / VAPOR BARRIER
MASONRY VENEER
FLEXIBLE
MEMBRANE FLASHING.
w/ WEEPS @32" O.C.
w/ MORTAR NET
STEEL ANGLE LINTEL
- GALV. SEE STRUC
CONT. SEALANT
& BACKER ROD
1/8" BENT $\bar{P}$ DRIP
EDGE, WELD TO
DOOR JAMB PLATE
1/8" BENT $\bar{P}$ JAMB
MASONRY BLOCK BEYOND

NOTE: 8" CMU SHOWN, 12" CMU SIMILAR.

1 OVERHEAD DOOR HEAD
70-A605 SCALE: 3" = 1'-0"

MASONRY VENEER
RIGID INSULATION
AIR / VAPOR
BARRIER
CAULK JOINT
(TYP)
2" BENT $\bar{P}$ 3/16" x 3" x 1"
VERIFY WITH OVERHEAD
DOOR MANUFACTURER
OVERHEAD
DOOR
NOTES:
1. * = VERIFY ALL DIMENSIONS WITH DOOR SUPPLIED.
2. 8" CMU SHOWN, 12" CMU SIMILAR.

SEE STRUCTURAL FOR
REINFORCEMENT
1/8" BENT $\bar{P}$ JAMB
WELD TRACK ANCHOR
TO DOOR JAMB
OVERHEAD DOOR
JAMB TRACK
4"

2 OVERHEAD DOOR HEAD JAM
70-A605 SCALE: 3" = 1'-0"

OVERHEAD DOOR
L 1" x 1 1/2" x 1/8" W/ 1/2"
DIA. x STUD ANCHORS
@ 16" O.C. GALVANIZED.
EXTEND TO CLEAR
EDGE OF DOOR @
JAMB TRACK
1/2" SLOPE
1" LIP
EXTERIOR PAVING
OR APPROACH SLAB
1' - 0" SLOPED
5"
1 1/2"

NOTE: DIMENSION SHALL BE VERIFIED WITH DOOR SUPPLIED.

3 OVERHEAD DOOR HEAD SILL
SCALE: NOT TO SCALE

STEEL FRAMING
RE:STRUCTURAL
COLD FORM METAL
FRAMING, CFMF
UPPER LEVEL
EL 975.00
SPRAY FOAM INSULATION
1" STAND OFF
METAL CUT EXTERIOR SIGN;
FACTORY-APPLIED POWDER
COAT FINISH TO MATCH CITY
LOGO COLORS. FINISH
SHALL BE USE-RESITANT
AND SUITABLE FOR
EXTERIOR USE.
1"
PREFINISHED METAL WALL
PANEL
SEAL ALL PENETRATIONS;
MAINTAIN WEATHER TIGHT
BUILDING ENVELOPE.
CONCRETE MASONRY UNIT

GYP. WALL BOARD,
REF. PARTITION TYPES
COLD-FORMED METAL
FRAMING FILLED WITH
BATT INSULATION, REF.
PARTITION TYPES
HOLLOW METAL
FRAME, PAINTED
DOOR REF. SCHEDULE

4 HM DOOR JAMB - FRAMING
SCALE: 3" = 1'-0"

CMU BOND BEAM
JOINT SEALANT AND
BACKER ROD
HOLLOW METAL
FRAME, PAINTED
DOOR REF. SCHEDULE

5 HEAD DETAIL
SCALE: 3" = 1'-0"

6 EXTERIOR SIGNAGE SECTION
70-A102 SCALE: 1 1/2" = 1'-0"

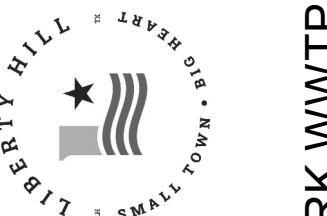


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REGISTRATION NO.
BR-60



REV	DATE	DESCRIPTION	BY
1	10/02/26	ADDENDUM #6	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS
LIBERTY HILL NORTH FORK WWTP

ADMINISTRATION
BUILDING DOOR
DETAILS

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

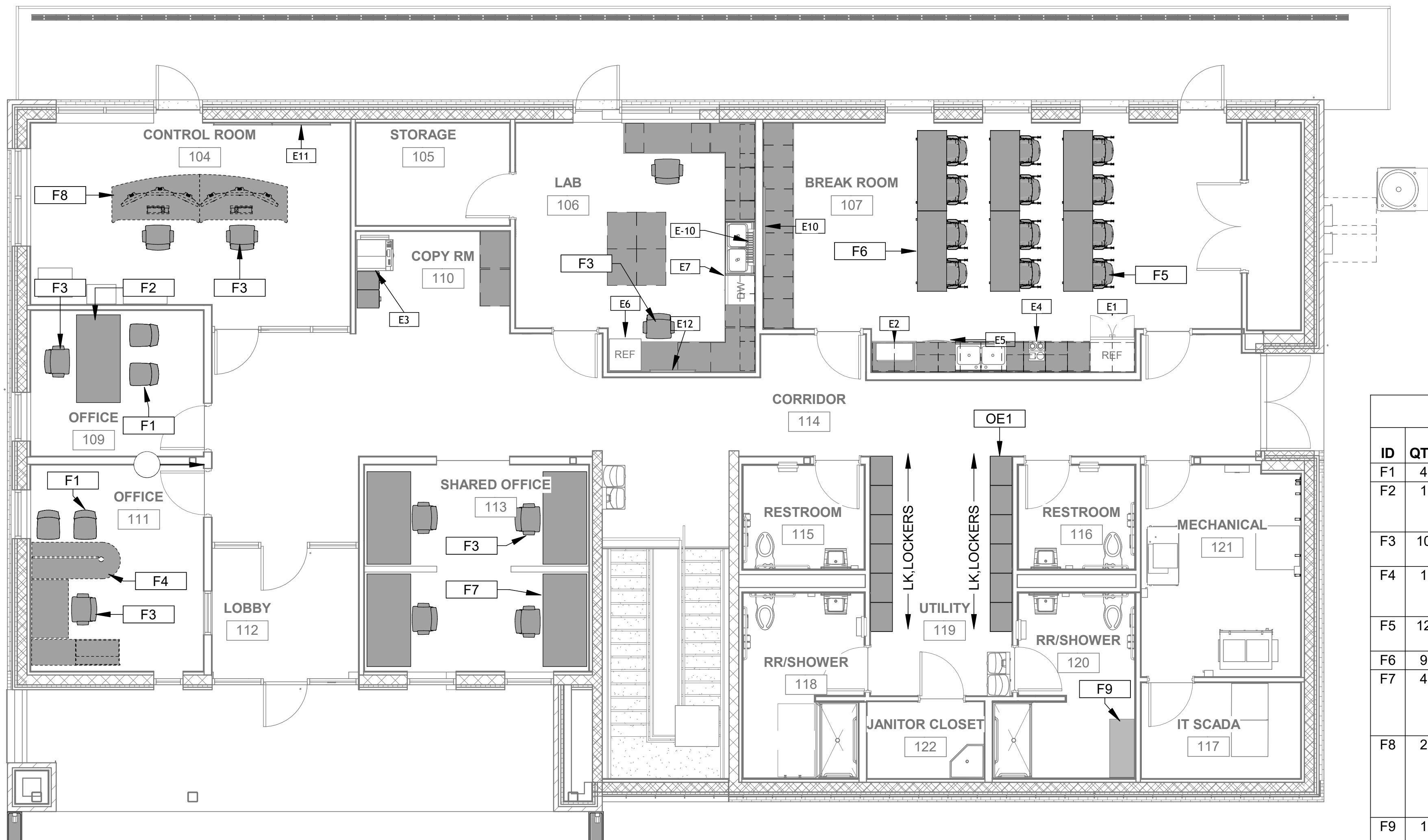
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DRAWING NUMBER

70-A605

SHEET
NUMBER 499

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Plot Date: 10/2/2026 10:49:12 AM



1 FURNITURE PLAN
70-A702 SCALE: 3/16" = 1'-0"
PROJECT NORTH

GENERAL NOTES

1. REFER TO GENERAL SHEETS FOR OTHER GENERAL NOTES.
2. REFER TO ALL CIVIL/MEP/STRUCTURAL SHEETS FOR REQUIRED WORK.
3. ALL DIMENSIONS ARE TO FACE OF CMU, GYP BD, OR CENTER LINE OF GRID.
4. INSIDE FACE OF DOOR FRAME JAMBS (HINGE SIDE) ARE LOCATED 6" MIN. FROM ADJACENT PERPENDICULAR WALLS (UNLESS NOTED OTHERWISE).
5. PROVIDE BLOCKING/BRACING FOR ALL WALL MOUNTED, ATTACHED, AND RECESSED EQUIPMENT AND FURNISHINGS AS RECOMMENDED BY MANUFACTURERS.
6. PROVIDE 1'-6" CLEAR AREA AT PULL SIDE OF DOORS.
7. PROVIDE 1'-0" CLEAR AREA AT PUSH SIDE OF DOORS WITH LATCH AND CLOSER.
8. REFER TO 70-A701 FOR FLOOR FINISHES.
9. REFER TO 70-A601 FOR DOOR TYPES & TYPICAL DETAILS.
10. SEE SPECIFICATIONS FOR HARDWARE SETS.
11. REFER TO 70-A501 FOR PARTITION SCHEDULE



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FURNITURE SCHEDULE

ID	QTY	DESCRIPTION	MANUFACTURER	FURNISHED BY	NOTES & REMARKS
F1	4	JOYA SIDE CHAIR, ARMLESS	KIMBALL	OF / OI	
F2	1	66" WOOD LAMINATE WORK SURFACE WITH INTEGRATED METAL O-LEG SUPPORTS	NATIONAL OFFICE FURNITURE	OF / OI	INCLUDES LOW-PROFILE 66" CRENDENZA WITH OPEN-SHELF "LOFT" STORAGE AND MATTE BLACK HARDWARE
F3	10	JOYA ADJUSTABLE HEIGHT TASK CHAIR	KIMBALL	OF / OI	ADJUSTABLE HEIGHT, ARMS AND LUMBAR, INCLUDES HARD SURFACE CASTERS
F4	1	RENEGADE U-SHAPED LAMINATE WORK SURFACE	NATIONAL OFFICE FURNITURE	OF / OI	INCLUDES INTEGRATED STORAGE PEDESTALS, WIRE GROMMETS, AND MATTE BLACK INDUSTRIAL HARDWARE
F5	12	CHADDY CHAIR MOBILE METAL FRAME STACKABLE TRAINING CHAIR	NATIONAL OFFICE FURNITURE	OF / OI	INCLUDES CASTERS AND CUSHION
F6	9	LAMINATE MOBILE FOLDING TABLE	KIMBALL	OF / OI	INCLUDES CASTERS
F7	4	2-1/2" MONOLITHIC PANEL WORKSTATION	KIMBALL	OF / OI	INTERNALLY POWERED, DATA RACEWAYS, FROSTED GLASS GALLERY TOPPERS, TRIPLE MONITOR ARM ARRAY AND INTEGRATED SLAT WALL STORAGE
F8	2	XSEDE PANEL WORKSTATION	KIMBALL	OF / OI	O-LEG METAL FRAMES WITH INTEGRATED POWER RAILS, UNDER-SURFACE CABLE TRAYS, AND VERTICAL CABLE UMBILICALS. INCLUDES PERFORATED METAL MODESTY PANELS AND TRIPLE-MONITOR ARM ARRAYS.
F9	1	WOOD ADA COMPLIANT BENCH	SALSBURY INDUSTRIES	OF / OI	
F10	12	VANGUARD 1-TIER 2-DOOR EXECUTIVE LOCKER, 24"W x 18"D x 78"H	PENCO	OF / OI	

PLUMBING FIXTURE SCHEDULE

ID	QTY	DESCRIPTION	MANUFACTURER	MODEL	NOTES & REMARKS
PL-01	4	CHESAPEAKE WALL-MOUNTED LAVATORY W/ 8" CENTER	KOHLER	K-1724	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION
PL-03	4	WALL-MOUNT FLUSH VALVE TOILET	ZURN INDUSTRIES, LLC.	Z5615.258	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION
PL-05	2	DROP-IN DOUBLE BASIN KITCHEN SINK	ELKAY	CR43224	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION
PL-06	1	CORNER MOP SINK	KOHLER	K-6710	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION
PL-07	1	DOUBLE BUBBLER ELECTRIC WATER COOLER & BOTTLE FILLER	ELKAY		RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION
PL-08	2	ADA-COMPLIANT HANDHELD SHOWER HEAD	FREEDOM SHOWERS	APFHHGBLS	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION

EQUIPMENT SCHEDULE

RESPONSIBILITY		QTY	DESCRIPTION	MANUFACTURER	PRODUCT DIMENSIONS	MODEL	COLOR	NOTES & REMARKS
CI	E1	1	REFRIGERATOR (BREAK ROOM)	FRIDGIDAIRE	36"W x 69-7/8"H x 28-1/2" D	FRFC2323AS	STAINLESS STEEL	-
CI	E2	1	30" x 16" x 18" MICROWAVE	SHARP	21"W x 13"H x 16"D	WMH31017HZ	STAINLESS STEEL	BLACK FINISH
CI	E3	1	POUR OVER COFFEE MACHINE	BUNN	9" W X 17" H X 22" D	CWTF 15-1, PF, 12950.0293 (POUR OVER)	BLACK	POUR OVER STULE. NO DIRECT WATER CONNECTION REQUIRED. SERVER SOLD AS ACCESSORY.
CI	E4	1	MULTIFUNCTION COPIER	RICOH		COPIER 14254	WHITE	
CI	E5	1	DISHWASHER (BREAK ROOM)	GE	24" W X 32" H X 24" D	GDFT226SSLSS	STAINLESS STEEL	
CI	E6	1	REFRIGERATOR (LAB)	SUMMIT APPLIANCE	26" W X 73" H X 26" D	FFAR10PLUS2	STAINLESS STEEL	
CI	E7	1	DISHWASHER (LAB)	BOSCH	24" W X 33-7/8" H X 23-9/16" D	SGX78C55UC (800 SERIES)	STAINLESS STEEL	
CI	E8	1	TOP LOAD WASHER	SPEED QUEEN		LFNE5BSP115TW01	WHITE	
CI	E9	1	FRONT LOAD DRYER	SPEED QUEEN		LDEE5BGS173TW01	WHITE	
CI	E10	1	TV MONITOR	SAMSUNG	75" (DIAGONAL)	QM75C	BLACK	INCLUDE VOGEL'S ELITE SERIES SWIVEL WALL BRACKET
CI	E11	4	PLANNER SCREEN SYSTEM (VIDEO WALL)	PLANAR	55" (DIAGONAL)	CLARITY MATRIX G3	BLACK	2X2 PLANAR VIDEO WALL CONFIGURATION; INCLUDE VIDEO PROCESSOR, POWER SUPPLIES, AND MOUNTING SYSTEM
CI	E12	1	TV MONITOR	SAMSUNG	43" (DIAGONAL)	QM43C	BLACK	INCLUDE VOGEL'S ELITE SERIES SWIVEL WALL BRACKET
CI	E13	1	METAL 5-DRAWER FILE CABINET	HIRSH	15" x 18" x 28-1/2"	RENEGADE STORAGE	GRAY	
CI	E14	1	METAL 5-DRAWER FILE CABINET	HIRSH	15" x 18" x 28-1/2"	RENEGADE STORAGE	GRAY	
CI	E15	1	EPOXY RESIN PEG DRYING RACK	THOMAS SCIENTIFIC	30" W x 30" H x 1" T	1193Q86	BLACK	



ADMINISTRATION
BUILDING FURNITURE
PLAN

JOB NO.: W07-2401219

DATE: AUG. 2026

DESIGNED BY: CMR

DRAWN BY: RAG

CHECKED BY: CMR

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70-A702

SHEET
NUMBER **501**

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Plot Date: 10/2/2026 11:15:20 AM

MATERIAL FINISH SCHEDULE				
ID	MATERIAL	MANUFACTURER	MODEL	NOTES/REMARKS
CEILING				
C1	PAINTED STEEL CEILING	SHERWIN-WILLIAMS	HIGH SOLIDS POLYURETHANE SYSTEM	
DOOR				
HMD	HOLLOW METAL, PAINTED	TNEMEC	SERIES 69 EXPOXOLINE II	COLOR: MEDIUM GREY, SEMI-GLOSS
HMF	HOLLOW METAL FRAME, INDUSTRIAL DIRECT-TO-METAL APPLICATION	TNEMEC	SERIES 69 EXPOXOLINE II	COLOR: MEDIUM GREY, SEMI-GLOSS
FLOOR				
CPCE	CAST-IN-PLACE CONCRETE, EPOXY COATED	TNEMEC	SERIES 282	COLOR: GLOSSY WHITE
SC	CAST-IN-PLACE CONCRETE, COATED WITH GLOSS/NON-SKID CLEAR PROTECTIVE COATING	TNEMEC	SERIES 66 HI-BUILD EXPOXOLINE	APPLY NON-SKID ADDITIVE IN TRAFFIC AREAS
PARAPET, FASCIA, GUTTERS, DOWNSPOUTS				
PM-01	PREFINISHED METAL PANEL	PAC-CLAD	PAC-TITE	COLOR: WHITE
ROOF				
SPMR	SINGLE-PLY PVC MEMBRANE ROOFING	CARLISLE		COLOR: WHITE
WALL				
CMU	CONCRETE MASONRY UNITS	BEST BLOCK		STANDARD FINISH CMU
CMV-01	SPLIT-FACE CONCRETE MASONRY VENEER	BEST BLOCK		COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE
MWP-01	METAL WALL PANEL, VERTICAL	BERRIDGE	HR-12	COLOR: SHASTA WHITE

DOOR SCHEDULE														
NO.	ROOM NAME	DOOR					FRAME		DETAILS			DOOR HARDWARE	DOOR NO.	REMARKS
		TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL			
101A	ELECTRICAL ROOM	A	6' - 4"	9' - 0"	1 3/4"	HMD	HM-2	HMF	2/85-A502	4/85-A502	7/85-A502	01	101A	INSULATED DOUBLE DOOR
101B	ELECTRICAL ROOM	A	6' - 4"	9' - 0"	1 3/4"	HMD	HM-2	HMF	2/85-A502	4/85-A502	7/85-A502	01	101B	INSULATED DOUBLE DOOR

1

ROOM FINISH SCHEDULE							
NO.	ROOM NAME	AREA	FINISHES				NOTES/REMARKS
			WALL	BASE	FLOOR	CEILING	
101	ELECTRICAL ROOM	1,168 SF	P1	SC	SC	C1	

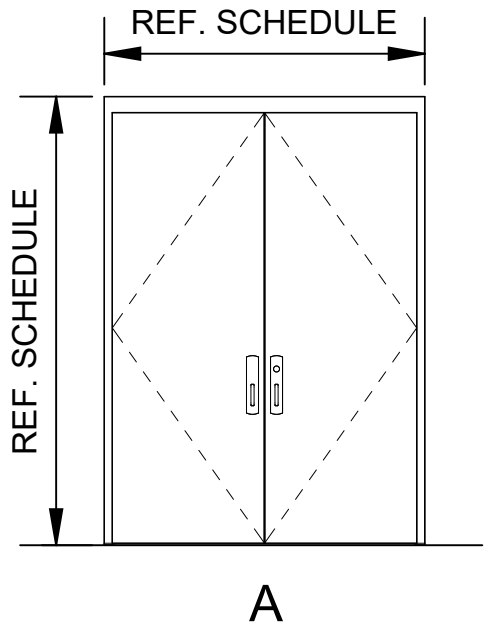
DOOR HARDWARE SETS

HARDWARE SET 01

(1) CONTINUOUS HINGE	CFM SLF-HD1	-	PE
(1) RIM PANIC	6100xAU 427F NL x FACILITY KEYING	630	YA
(1) DROP PLATE & MOUNTING HARDWARE	AS REQUIRED	689	YA
(1) SURFACE CLOSER	UNI4400	US32D	YA
(1) KICK PLATE	K1050 10" HIGH x LDW CSK	-	RO
(1) HD THRESHOLD	1715 x WIDTH	-	PE
(1) PERIMETER SEAL	BY DOOR/FRAME MFR.	-	-
(1) SWEEP	315CN x WIDTH	-	PE
(1) DOOR STOP	441 CU EXP	US32D	RO

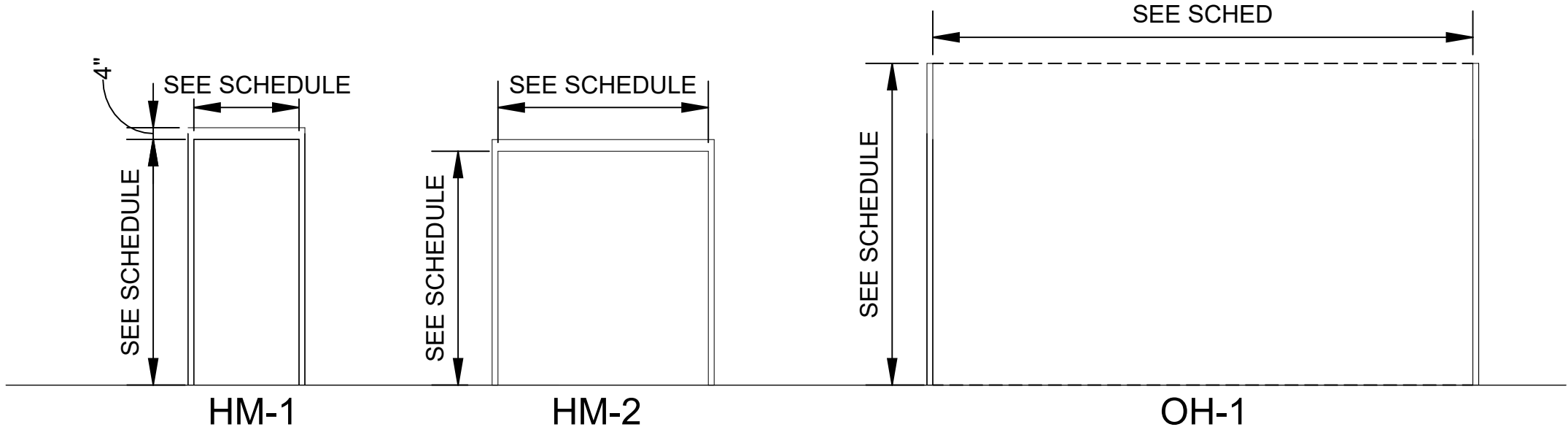
HARDWARE SET 02

- (1) CYLINDER
(*) BALANCE OF HARDWARE BY OVERHEAD DOOR MANUFACTURER



HOLLOW METAL FRAME FOR
DOOR - PAINT FINISH

DOOR LEGEND



HOLLOW METAL FRAME FOR
DOOR - PAINT FINISH

FRAME TYPES



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REGISTRATION NO.
BR-60



REV	DATE	DESCRIPTION	BY
1	10/02/26	Addendum #6	CMR

LIBERTY HILL

LIBERTY HILL

3604 RONALD REAGAN BLVD, TX

LIBERTY HILL

NORTH ELECTRICAL
BUILDING
SCHEDULES

LIBERTY HILL

NORTH FORK WWTP

JOB NO.: W07-2401219

DATE: AUG. 2026

DESIGNED BY: CMR

DRAWN BY: CIW

CHECKED BY: CMR

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