



CITY OF HOUSTON

Sylvester Turner

Mayor



HOUSTON AIRPORT SYSTEM

George Bush Intercontinental ~ William P. Hobby ~ Ellington Airport

Mario C. Diaz
Director of Aviation

July 26, 2022

SUBJECT: Addendum No. 4

REFERENCE: Invitation To Bid (ITB) for HOU Restroom Renovation Phase 2; Solicitation No. HHG-HRESTR-2022-019; Project No. PN209A

To: All Prospective Bidders:

This Addendum is being issued for the following reason:

- I. Update** - Miscellaneous Electrical, Plumbing, IT and Architectural Drawings and Specification Modifications (attached).

When issued, Addendum shall automatically become part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with this Addendum. Addenda will be incorporated into the Contract as applicable. It is the responsibility of the bidder(s) to ensure that it has obtained all such Addenda. By submitting a bid on this project, bidder(s) shall be deemed to have received all Addenda.

If further clarification is needed regarding this solicitation, please contact Humberto De La Garza, Sr. Procurement Specialist, via email at humberto.delagarza@houstontx.gov.

DS
DE

DocuSigned by:

Cathy Vander Plaats

02232028DE99414...

Cathy Vander Plaats
Aviation Procurement Officer
Houston Airport System

DS
DE

Cc: Al Oracion
Dallas Evans
Solicitation File

Attachments: 1. Miscellaneous Electrical, Plumbing, IT and Architectural Drawings.

Council Members: Amy Peck Tarsha Jackson Abbie Kamin Carolyn Evans-Shabazz Dave Martin Tiffany D. Thomas Mary Nan Huffman
Karla Cisneros Robert Gallegos Edward Pollard Martha Castex-Tatum Mike Knox David W. Robinson Michael Kubosh
Letitia Plummer Sallie Alcorn
Controller: Chris B. Brown

NARRATIVE ADDENDUM NO. 4

RFI QUESTIONS & CLARIFICATIONS

1. ALL RFI QUESTIONS AND CLARIFICATIONS WERE ISSUED IN ADDENDUM #2.

SPECIFICATIONS:

Item	Reference Specification(s)	Description
	102800	a. TF-1 Model # revised to read 461202 b. Frameless LED Mirror Type PM-1 Added.
	271045	Updated the Smart Restroom Technology to the current TRAX standards.

DRAWINGS:

Item	Reference Drawing(s)	Description
	G-003	a. Special Inspections Note 2 revised to read: Special inspections "retained by the owner". b. The following wording "wood platform and precast terrazzo planter" was removed from Note 2 of Architectural Systems.
	G-010	Dust Fence Detail B2/G010 added.
	G-042	a. Dust wall dimensions added. b. Floor plan Legend Revised. c. Construction phasing note # 4 revised to read: Dust fence partition to be min. 8' AFF, TYP.
	AD-101, AD-102, AD-103	Dust wall information removed.
	A-101	a. Toilet Accessories legend and Plumbing fixtures legend updated: 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed as Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Soap dispenser location symbol revised in the floor plan.
	A-102	a. Toilet Accessories legend and Plumbing fixtures legend updated: 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed as Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Soap dispenser location symbol revised in the floor plan.
	A-103	a. Toilet Accessories legend and Plumbing fixtures legend updated: 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed as Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Soap dispenser location symbol revised in the floor plan.

	A-140, A-141, A-142	RCP General Notes #6 wording revised: "SOUTHWEST AIRLINES" replaced with "HAS RESTROOM STANDARDS"
	A-420	<ul style="list-style-type: none"> a. Toilet Accessories legend updated: <ul style="list-style-type: none"> 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed to read Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Detail C3 Revised. <ul style="list-style-type: none"> 1. Lavatory Island Elevation revised. 2. Symbol PM-2 revised to read PM-1. c. Detail B3 Revised. <ul style="list-style-type: none"> 1. Lavatory Island Elevation revised. 2. Mirror PM-1 revised. d. TF-1 Label added on Detail A3
	A-421	<ul style="list-style-type: none"> a. Toilet Accessories legend updated: <ul style="list-style-type: none"> 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed to read Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202.
	A-422	<ul style="list-style-type: none"> a. Toilet Accessories legend and Plumbing fixtures legend updated: <ul style="list-style-type: none"> 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed to read Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Detail B2 Revised. <ul style="list-style-type: none"> 1. Back Splash added 2. Mirror dimensions added. 3. Symbol PM-2 added. 4. Trespa panels symbols revised for clarification. c. Detail B1 and A3: Trespa panel symbol WP05 added for clarification
	A-423	<ul style="list-style-type: none"> a. Toilet Accessories legend and Plumbing fixtures legend updated: <ul style="list-style-type: none"> 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed to read Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Detail C2 Revised. <ul style="list-style-type: none"> 1. Back Splash added 2. Mirror dimensions added. 3. Mirror Symbol revised to read PM-2. c. Detail A3: Trespa panel symbol WP06 added for clarification d. Detail B1: Sanitizing Station revised to add symbol TF-1 e. Detail A1: TL3 Symbol added.
	A-425	<ul style="list-style-type: none"> a. Toilet Accessories legend and Plumbing fixtures legend updated: <ul style="list-style-type: none"> 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed to read Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202.

		<ul style="list-style-type: none"> b. Detail D4 Revised. <ul style="list-style-type: none"> 1. Back Splash added 2. Mirror dimensions added. 3. Mirror Symbol revised to read PM-2. 4. Trespa panel layout and symbols revised for clarification. c. Detail A2 and A3: Trespa panel symbol WP05 added for clarification d. Detail C4: Sanitizing Station revised to add symbol TF-1, PB-2, PP-1.
	A-426	<ul style="list-style-type: none"> a. Toilet Accessories legend and Plumbing fixtures legend updated: <ul style="list-style-type: none"> 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed to read Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Detail A1 and C4 Revised. <ul style="list-style-type: none"> 1. Back Splash added 2. Mirror dimensions added. 3. Mirror Symbol revised to read PM-2. 4. Trespa panels symbols revised for clarification. c. Detail B1: Trespa panel symbol WP05 added for clarification d. Detail B2: TL3 Symbol added.
	A-427	<ul style="list-style-type: none"> a. Toilet Accessories legend and Plumbing fixtures legend updated: <ul style="list-style-type: none"> 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed to read Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Detail A1 and C3 Revised. <ul style="list-style-type: none"> 1. Back Splash added 2. Mirror dimensions added. 3. Mirror Symbol revised to read PM-2. 4. Trespa panels symbols revised for clarification. c. Detail B2: Trespa panel symbol WP05 added for clarification d. Detail C1: Sanitizing Station revised to add symbol TF-1, PB-2, PP-1.
	A-428	<ul style="list-style-type: none"> a. Toilet Accessories legend and Plumbing fixtures legend updated: <ul style="list-style-type: none"> 1. Not used items PC4, PC5 and PS1 were deleted. 2. Lovair accessories were renamed to read Splash Lab USA. ID information updated for PF-1, PF2, PO-1, PL-1, and PL-2. 3. PM-1 Carvart Frameless LED Mirror Added. 4. TF-1 model # revised to read: 461202. b. Detail B4 and A3 Revised. <ul style="list-style-type: none"> 1. Back Splash added 2. Mirror dimensions added. 3. Mirror Symbol revised to read PM-2. 4. Trespa panels symbols revised for clarification. c. Detail A2: Trespa panel symbol WP06 added for clarification d. Detail C2: Sanitizing Station revised to add symbol TF-1, PB-2, PP-1. e. Detail A1 Revised. <ul style="list-style-type: none"> 1. Lavatory Elevations revised 2. Mirror dimensions added. 3. Mirror Symbol revised to read PM-1. 4. Trespa panels symbols revised for clarification. 5. TL3 Symbol added.

	A-510	<ul style="list-style-type: none"> a. Detail A1 and Detail C1 Backing board were revised to read “$\frac{3}{4}$” CEMENT BOARD BACKING”. b. Detail B2 revised: <ul style="list-style-type: none"> 1. PM-1 LED Carvart Mirror added. 2. Mirror dimensions added. 3. Casework dimensions revised. 4. Note added to coordinate equipment/power cutouts as required. c. Detail C4 revised: <ul style="list-style-type: none"> 1. CS2 Back Splash added. 2. Lovair Ribbon Systems accessories were renamed to read Splash Lab USA.
	A-511	<ul style="list-style-type: none"> Detail A1 revised. <ul style="list-style-type: none"> 1. PM-1 LED Carvart Mirror Added. 2. Mirror dimensions revised. 3. LED noted revised
	A-600	<ul style="list-style-type: none"> a. WP05 Color revised to read: K32.2.1 Translucent Green Satin. b. Door Type revised to read Type ‘A’ required. Door type ‘B’ Deleted.
	A-604	Room Signage quantity revised: 16 room signs required.
	EG401	Electrical schedules revised, refer sheet attached.
	EL101, EL102, EL103	J-box for power to LED Mirrors added.
	EP101, EP102, EP103	<ul style="list-style-type: none"> a. J-box for stall lights on sheets. b. J-box for soap/water faucet sensor at all lavatory island.
	EP104	Floor plan background revised. Refer sheet attached.
	MG001	Applicable codes legend revised.
	PG301	Soap Dispenser diagram added.
	PG401	Plumbing fixture schedule updated to show Splash Lab plumbing fixture schedule.
	PP101, PP102, PP103	Note to provide 3 gallon soap dispenser reservoirs added.
	T-101, T-102, T-103	Updated the smart restroom technology and keynotes on the Floorplans.
	T-401, T-402, T-403	Updated Line Diagrams to accommodate the updated smart restroom technology.
	T-500	Updated Flat Panel Display Mount Detail to include the new MINI PC.
	T-600	Updated Equipment Schedule to include the technology additions and subtractions

Miscellaneous:

Item	Reference Specification(s)	Description
		<ul style="list-style-type: none"> a. Asbestos inspection report P#22053026, Hobby Phase 2 (Gates 20-23, Gates 24-27, Gates 28-32)

HOU Restroom Renovations Phase 2 TOILET, BATH, AND LAUNDRY ACCESSORIES
Project No. **PN209A**

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Public-use washroom accessories.
2. Toilet-compartment occupancy-indicator systems.
3. Childcare accessories.
4. Underlavatory guards.
5. Custodial accessories.

B. Related Requirements:

1. Section 088300 "Mirrors" for frameless mirrors.
2. Section 093013 "Ceramic Tiling" for ceramic toilet and bath accessories.
3. Section 102813.63 "Detention Toilet Accessories" for accessories designed for installation in detention facilities.

1.2 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Include anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
3. Include electrical characteristics.

B. Samples: For each exposed product and for each finish specified, full size.

1. Approved full-size Samples will be returned and may be used in the Work.

HOU Restroom Renovations Phase 2 TOILET, BATH, AND LAUNDRY ACCESSORIES
Project No. **PN209A**

- C. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
 - 1. Identify locations using room designations indicated.
 - 2. Identify accessories using designations indicated.

1.4 INFORMATIONAL SUBMITTALS

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For accessories to include in maintenance manuals.

1.6 WARRANTY

- A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, visible silver spoilage defects.
 - 2. Warranty Period: **[10] [15] <Insert number>** years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Toilet-Compartment Occupancy-Indicator Systems: Manufacturer agrees to repair or replace toilet-compartment occupancy-indicator systems that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: **[Five] <Insert number>** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 OWNER-FURNISHED MATERIALS

- A. Owner-Furnished Materials: **<Insert products>**.

2.2 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

HOU Restroom Renovations Phase 2 TOILET, BATH, AND LAUNDRY ACCESSORIES
Project No. **PN209A**

2.3 PUBLIC-USE WASHROOM ACCESSORIES

A. Toilet Tissue (Roll) Dispenser Type PI-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Tork Mini Jumbo Bath Tissue Dispenser 465500
2. Mounting: Partition mounted
3. Material and Finish: Stainless steel

B. Automatic Paper Towel (Roll) Dispenser Type TF-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Tork Matic Hand Towel Dispenser with Intuition Sensor **461202**
2. Mounting: Surface mounted
3. Material and Finish: Metal/Plastic, Stainless Steel

C. Waste Receptacle Type PP-2:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bobrick B-3644
2. Mounting: Recessed
3. Minimum Capacity: 12 Gal.
4. Material and Finish: Stainless steel, Satin Finish
5. Liner: Bobrick Part No. 3944-134.
6. Lockset: Tumbler type for waste receptacle.

D. Waste Receptacle Type PC-3:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bobrick B-315-35
2. Mounting: Recessed
3. Minimum Capacity: 12 Gal.
4. Material and Finish: Stainless steel, Satin Finish
5. Liner: Bobrick
6. Lockset: Tumbler type for waste receptacle.

E. Combination Towel (Folded) Dispenser/Waste Receptacle Type PP-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Tork Matic Hand Towel Dispenser with Intuition Sensor 309051
2. Description: Frame and waste receptacle only. Intended for use with Type TF-1 Tork 461102.
3. Mounting: Recessed
 - a. Designed for nominal 4-inch wall depth.
4. Material and Finish: Stainless steel

F. Grab Bar PG-1 & PG-2 & PR-1:

HOU Restroom Renovations Phase 2 TOILET, BATH, AND LAUNDRY ACCESSORIES
Project No. **PN209A**

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bobrick B-5806
2. Mounting: Flanges with concealed fasteners.
3. Material: Stainless steel, Satin Finish
4. Outside Diameter: 1-1/4 inches
5. Configuration and Length: As indicated on Drawings

G. Sanitary-Napkin Disposal Unit PN-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bobrick B-254
2. Mounting: Partition mounted
3. Door or Cover: Self-closing, disposal-opening cover and hinged face panel with tumbler lockset.
4. Receptacle: Removable.
5. Material and Finish: Stainless steel, Satin Finish

H. Seat-Cover Dispenser Type PE-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Tork Silhouette Toilet Seat Cover Dispenser 1951001
2. Mounting: Surface mounted
3. Exposed Material and Finish: Plastic, Smoke

I. Hook Type PJ-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Carvart Coat Hook
2. Description: 6 5/16" Combination door bumper and coat hook
3. Material and Finish: Satin Aluminum

J. Hand Sanitizer Dispenser Type PB-2:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Tork 466100
2. Mounting: Surface
3. Material and Finish: Stainless steel

K. Floating Mirror Type PM-2:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Carvart glassMIRROR
2. Description: Frameless Floating Mirror
3. Mounting: Concealed wall-mounted Z-Clip bracket
4. Material and Finish: Smooth Surface, Polished Edges
5. Size: Refer to Drawings

L. *Frameless LED Mirror Type PM-1:*

1. ***Basis-of-Design Product: Subject to compliance with requirements, provide Carvart glassMIRROR***

HOU Restroom Renovations Phase 2 TOILET, BATH, AND LAUNDRY ACCESSORIES
Project No. **PN209A**

2. *Description: Frameless LED Mirror (LED Back light) And LED Lit Symbols. Specification Code CB-MRR-XF*
3. *Mounting: Concealed wall-mounted Z-Clip bracket*
4. *Material and Finish: Smooth Surface, Polished Edges*
5. *Size: Refer to Drawings*

M.

2.4 **CHILDCARE ACCESSORIES**

A. Diaper-Changing Station Type PC-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Koala Kare KB110-SSRE
2. Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.
3. Mounting: Recessed
4. Operation: By pneumatic shock-absorbing mechanism.
5. Material and Finish: Stainless Steel
6. Liner Dispenser: Provide separate, locking dispenser for disposable sanitary liners.

B. Diaper-Changing Station Liner Dispenser Type PB-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Koala Kare KB134-SSLD
2. Mounting: Recessed.
3. Material and Finish: Stainless Steel
4. Lockset: Tumbler type.

C. Child Step Stool Type PH-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Step N' Wash SNW-SS 975B Self Retracting Step Stool
2. Mounting: Secured directly to concrete substrate utilizing four (4) stainless steel wedge anchors (supplied by manufacturer) with tension rating of 3999 lbs. and shear rating of 3031 lbs. ** For complete and secure installation, use only type and size of fastener provided by manufacturer or those suitable for application and substrate

2.5 **CUSTODIAL ACCESSORIES**

A. Custodial Utility Shelf Type PR-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bobrick B-298
2. Size: 24 inches long by 8 inches deep. 24"Wx8"Dx3"H
3. Material and Finish: Stainless Steel, Satin

HOU Restroom Renovations Phase 2 TOILET, BATH, AND LAUNDRY ACCESSORIES
Project No. **PN209A**

B. Custodial Mop and Broom Holder Type PX-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bobrick B-223
2. Length: 24 inches.
3. Mop/Broom Holders: Three, spring-loaded, rubber hat, cam type.
4. Material and Finish: Stainless steel, Satin.

2.6 MATERIALS

- A. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304, **0.031-inch-** minimum nominal thickness unless otherwise indicated.
- B. Brass: ASTM B19, flat products; ASTM B16/B16M, rods, shapes, forgings, and flat products with finished edges; or ASTM B30, castings.
- C. Steel Sheet: ASTM A1008/A1008M, Designation CS (cold rolled, commercial steel), **0.036-inch-** minimum nominal thickness.
- D. Galvanized-Steel Sheet: ASTM A653/A653M, with **G60** hot-dip zinc coating.
- E. Galvanized-Steel Mounting Devices: ASTM A153/A153M, hot-dip galvanized after fabrication.
- F. Fasteners: Screws, bolts, and other devices of same material as accessory unit, unless otherwise recommended by manufacturer or specified in this Section, and tamper and theft resistant where exposed, and of stainless or galvanized steel where concealed.
- G. Chrome Plating: ASTM B456, Service Condition Number SC 2 (moderate service).
- H. Mirrors: ASTM C1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.

2.7 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of **[six]** **<Insert number>** keys to Owner's representative.

HOU Restroom Renovations Phase 2 TOILET, BATH, AND LAUNDRY ACCESSORIES
Project No. **PN209A**

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories in accordance with manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
 - 1. Remove temporary labels and protective coatings.
- B. Grab Bars: Install to comply with specified structural-performance requirements.
- C. Shower Seats: Install to comply with specified structural-performance requirements.

3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Clean and polish exposed surfaces in accordance with manufacturer's written instructions.

END OF SECTION 102800

SECTION 271045
RESTROOM MONITORING SYSTEM**PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
1. Refer to <https://www.fly2houston.com/biz/resources/building-standards-and-permits> for a complete list of related specification sections.
- B. Reference Symbols:
1. All device symbols are defined by the appropriate symbol schedule on the symbols and abbreviations sheet in the systems drawing package. Not all device symbols indicated may be required for the project.
 2. Because of the scale of the drawings, symbols are shown on drawings as close as possible to the mounting location. Contractor shall coordinate exact locations with all drawings and affected trades prior to submittal of shop drawings.
 - a. The installing Contractor shall coordinate exact locations with all security and telecommunications drawings and site plan drawings as well as all affected trades prior to submittal of any shop drawings.

1.2 SUMMARY

- A. An expansion to the existing Restroom Monitoring System (A.K.A. Smart Restroom) shall be installed at each public restroom space planned in the project). The system shall be a reconfiguration and update of the existing "Smart Restroom" system manufactured by the existing vendor, TRAX.
- B. The Smart Restroom System shall:
1. Count number users of at each Restroom using Bluetooth and video analytics, for the purpose of notification of Janitorial staff to inspect, service consumables and clean the spaces at predetermined thresholds of users.
 - a. Provide airport maintenance and management with statistical data on Restroom usage patterns and trends using beacon interfaced to custodial carts.
 2. Provide touch-screen passenger experience at each restroom location support interface to system to collect positive and negative input from users.
 3. Additionally, the scope of work shall include all necessary modifications, software upgrades and programming as required to seamlessly integrate the Existing HAS IT Smart Restroom platform. The work includes materials, infrastructure, equipment, software updates, and programming as required to provide a fully integrated and operational system as herein specified.
 4. The installation, performance, features, functions, software, and programming modifications as specified herein as well as all related specification sections have been designed to offer the maximum system efficiency ease of operation, occupant safety and enhance the MLIT Experience.
- C. The initial deployment of the Smart Restroom System components shall consist of, but not be limited to, the following.
1. Each restroom shall be provisioned with:
 - a. User counting camera system with video analytics.

- b. Custodial frequency tracking
 - c. Passenger experience touch screen
 - d. Network interface and mini-PC
2. Local Area Network (LAN) and beacon integration shall be performed to support the deployment of all Smart Restroom components as described above.

- D. The Smart Restroom System shall be IP-based. The Contractor shall be responsible for all integration with the other trades and HAS IT for network and low voltage cabling, cable terminations, patch panels, media cabinet (TE) and necessary configuration to provide the functionality described within this document. SRR configuration shall be performed in coordination with HAS IT and the Project Management.
1. In addition to SRR equipment procurement, installation, programming and activation, The Contractor shall furnish and install the following tasks as part of the Work:
 - a. System training as specified.
 - b. System warranty as specified.
 - c. System testing and acceptance plans as specified.
- E. The Division 27 integrator shall be responsible for providing all equipment, devices, system components, final cable terminations, programming, commissioning, and testing of all network communications cabling and equipment in accordance with all related Division 27 Specification Sections.

1.3 REFERENCES

- A. Refer to HAS Standards and specific specification sections for requirements.

1.4 SYSTEMS DESCRIPTIONS

- A. Refer to HAS Standards and specific specification sections for requirements.

1.5 SUBMITTALS

- A. Refer to HAS Standards and specific specification sections for additional information.
- B. Qualifications: Demonstrate compliance with requirements for Contractor certifications and trade skill sets.
- C. Submit Technical Implementation Plan-
- D. Submit manufacturer's technical data for each product provided.
- E. Submit technical and operations manuals.
- F. Include spares list to be approved by HAS IT Project Manager for approval.

1.6 QUALITY ASSURANCE

- A. Refer to HAS Standards and specific specification sections for requirements.

1.7 DELIVERY STORAGE AND HANDLING

- A. Refer to HAS Standards and specific specification sections for requirements.

1.8 RECORD DOCUMENTS

HOU Restroom Renovations Phase 2
Project No. PN209A

Restroom Monitoring
System

A. Refer to HAS Standards and specific specification sections for requirements.

1.9 OPERATIONS AND MAINTENANCE

A. Refer to HAS Standards and specific specification sections for requirements.

1.10 SOFTWARE AGREEMENT

A. Refer to HAS Standards and specific specification sections for requirements.

1.11 EXTRA MATERIAL

A. Refer to HAS Standards and specific specification sections for requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURED PRODUCTS

A. Refer to HAS Standards and specific specification sections in addition to the following:
1. All products shall be compatible with the latest revision of existing HAS TRAX Smart Restrooms system product as integrated and provided by TRAX, no approved equal.

2.2 SYSTEM CONFIGURATION REQUIREMENTS

A. Program and configure the Smart Restrooms to be a seamless reconfiguration and upgrade extension of the existing TRAX system.
B. Perform all network-related work including but not limited to:
1. HAS IT network assignments including port assignments and activation requirements.
C. Coordinate with HAS network provider to provide optimal performance for the Smart restroom system and the HAS network.

2.3 SYSTEM AND SOFTWARE REQUIREMENTS

A. System software shall be TRAX Smart Restroom Systems, no approved equal.
B. All restroom technology shall be the latest HAS IT adopted product offered by TRAX for the SRR system.

2.4 HARDWARE REQUIREMENTS

A. Network Switch
1. Refer to Section 27 21 00 for SRR switch equipment.
B. Mini PC or NUC
1. Processor equipment for SRR shall be ~~NOW MICRO DMPS-2200 latest HAS IT adopted product offered by TRAX for the SRR system.~~
C. Beacons
1. Bluetooth beacons for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system.
2. Current basis of design: KONTACT.IO, ANCHOR BEACON 2.

~~C. Beacons~~

- ~~1. Bluetooth beacons for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system.~~

D. Passenger Count Camera

1. Passenger Count cameras/ sensors for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system
2. Current basis of design: XOVIS, PC2-S.

~~D. Passenger Count Sensor / Camera~~

- ~~1. Passenger Count sensor / camera for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system.~~

~~E. Passenger Count Sensor Remote~~

- ~~1. Passenger Count Remote Unit for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system.~~

E. Passenger Feedback Screen

1. Passenger experience feedback touchscreen tablet for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system.
2. Current basis of design Samsung Galaxy A7 LTE. with ARMOR ACTIVE ELITE ENCLOSURE AND WEDGE MOUNT, and a BOUNCEPAD VESA MAXI CASE.

~~F. Passenger Feedback Screen (Touch Panel)~~

- ~~1. Passenger experience feedback touchscreen tablet for SRR shall be latest HAS IT adopted product offered by TRAX for the SRR system.~~

~~G.F. Flat Panel Display~~

1. Bathroom Display, LG 32SM5KE, mounted with a SMARTMOUNT SF632P.

~~H.G. Bathroom Stall Occupancy Sensor System~~

1. Bathroom Stall Occupancy Lights, ZURN Z-LIGHT-W1.
2. Bathroom Stall Occupancy Light Gateway, ZURN ZGW-WRP-W1-ETH.
3. Bathroom Stall Occupancy Light Power Supply, ZURN Z-PWRSUP-W1 or Meanwell IRM-90-12ST.
4. Bathroom Stall Occupancy Lights Cable, Belden 6100UE.

PART 3 - EXECUTION

3.1 COORDINATION

- A. Refer to HAS Standards and specific specification sections for requirements.

3.2 EQUIPMENT PROTECTION

- A. Protect all materials, equipment, devices, or components permanently installed and/or stored on the job site. Protect all materials, equipment, cabling, devices, or components during construction and after installation, provide appropriate protection of all materials, equipment, components and/or devices until time of substantial completion. All materials, equipment, components and/or devices shall be protected during shipment and storage against any physical damage, dirt, moisture, cold, snow or rain:

3.3 WORK PERFORMANCE

- A. Refer to HAS Standards and specific specification sections in addition to the following:
 - 1. Refer to related Specification Sections for additional project coordination requirements. In addition to the requirements defined in this Specification Section, the contractor shall coordinate and meet all requirements addressed in Division 26, Division 27, and Division 28 Specification Sections.
 - 2. The contractor shall adjust and calibrate the system to provide of performance acceptable to HAS.

3.4 EQUIPMENT INSTALLATION

- A. All system equipment installations shall be in accordance with good engineering practices, NEC, local building codes, and all manufacturer's requirements. Cable terminations at all equipment locations shall comply with all state and local electrical codes. All wiring shall test free from all grounds, shorts, stray voltages, and EMI.
- B. Follow manufacturers and integrator's instructions for installing, components and adjusting all equipment and cabling.

3.5 INSTALLATION REQUIREMENTS

- A. In addition to all demonstration and training as specified by Division 01, HAS Standards and specific specification sections and related Division 27 Specification Sections, system installation shall be provided in accordance with all requirements of this Section.
- B. General
 - 1. SRR installation shall be configured, programmed, and commissioned by TRAX certified programmer.
- C. Software Installation
 - 1. The Contractor shall provide, configure, and program all SRR software in compliance HAS IT approved and existing SRR system offer by TRAX.
- D. Hardware Installation
 - 1. The Contractor shall provide, configure, and install all SRR hardware in compliance HAS IT approved and existing SRR system offer by TRAX.
- E. System Startup
 - 1. The Contractor shall not apply power to the system until after:
 - a. TRAX representative has inspected and approved the SRR configuration and installation for compliance with HAS IT and integrator's system operational requirements.

3.6 COMMUNICATIONS CABLING REQUIREMENTS

- A. Refer to HAS Standards and specific specification sections for requirements.

3.7 ELECTRICAL POWER DISTRIBUTION

- A. Refer to HAS Standards and specific specification sections for requirements.

3.8 TRANSIENT VOLTAGE SUPPRESSION

- A. Refer to HAS Standards and specific specification sections for requirements.

3.9 GROUNDING AND BONDING

- A. Refer to HAS Standards and specific specification sections for requirements.

HOU Restroom Renovations Phase 2
Project No. PN209A

Restroom Monitoring
System

3.10 EQUIPMENT IDENTIFICATION

- A. Refer to HAS Standards and specific specification sections for requirements.

3.11 MAINTENANCE AND SERVICE

- A. Refer to HAS Standards and specific specification sections for requirements.

3.12 WARRANTY

- A. Refer to HAS Standards and specific specification sections for requirements.

3.13 FIELD SERVICES

- A. Refer to HAS Standards and specific specification sections for requirements.

3.14 TRAINING

- A. Refer to HAS Standards and specific specification sections for requirements.

3.15 PROJECT CLOSEOUT REQUIREMENTS

- A. Refer to HAS Standards and specific specification sections for requirements.

END OF SECTION 27 10 45

GENERAL NOTES

- 1. THE WORK PERFORMED UNDER THIS CONTRACT SHALL CONSIST OF FURNISHING ALL TOOLS, EQUIPMENT, MATERIALS, SUPPLIES, TRANSPORTATION, SERVICES, POWER AND WATER, ESSENTIAL COMMUNICATIONS, AND THE PERFORMANCE OF ALL LABOR WORK REQUIRED CALCULATIONS, TESTING, OR OPERATIONS REQUIRED FOR THE FULFILLMENT OF THE CONTRACT, IN STRICT ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND SCHEDULES, ALL OF WHICH ARE MADE A PART HEREOF, INCLUDING DETAIL SKETCHES AS MAY BE FURNISHED BY ARCHITECT OR ENGINEER FROM TIME TO TIME DURING CONSTRUCTION IN EXPLANATION OF THE PLANS. THE WORK SHALL BE COMPLETE AND ALL MATERIAL, SERVICES, MATERIALS, QUALITY OR NOT SPECIFICALLY CALLED FOR QUALITY AND CONDITIONS NOTED, IN THE SPECIFICATIONS, OR NOT SHOWN ON THE PLANS WHICH MAY BE NECESSARY FOR THE COMPLETE AND PROPER CONSTRUCTION TO CARRY OUT THE CONTRACT IN GOOD FAITH AND IN A SATISFACTORY MANNER SHALL BE PERFORMED, FURNISHED, AND INSTALLED BY THE CONTRACTOR AT NO INCREASE IN COST TO THE STATE.

ARCHITECTURAL SYSTEMS AND FINISHES

- 1. COLORS INDICATED ON THE MATERIALS AND FINISH KEY ARE CUSTOM COLORS TO MATCH THE COLOR INDICATED. COLORS FROM MANUFACTURER'S STANDARD CHARTS WILL NOT BE ACCEPTED UNLESS THOSE COLORS MATCH THE COLORS INDICATED. CONTRACTOR MAY USE AN ACCEPTABLE ALTERNATE PAINT MANUFACTURER THAT CAN MATCH THE SPECIFIED COLOR.
- 2. PROVIDE SHOP DRAWINGS FOR ARCHITECTURAL SYSTEMS & SIGNAGE. PROVIDE SUBMITTALS INCLUDING PRODUCT DATA, WARRANTY, AND COLOR SELECTION (AS APPLICABLE) OF MATERIALS AND FINISHES. PROVIDE SAMPLES FOR EACH MATERIAL, FOR EACH COLOR, FINISH, AND TEXTURE TO BE APPLIED. PROVIDE FINISH OF WOOD FINISH PLATFORM AND SIGN WALL TO INCLUDE END CONDITIONS AND RETURNING EDGE CONDITIONS.
- 3. WOOD JOCKING SHALL BE FIRE RETARDANT TREATED MATERIAL. PLATFORM WOOD FRAMING SHALL BE FIRE RETARDANT TREATED.

REFLECTED CEILING PLAN NOTES

- 1. THE GENERAL NOTES HEREIN ADDRESS ARCHITECTURAL DESIGN INTENT FOR ALL BUILDING SYSTEM COMPONENTS INSTALLED ABOVE THE FLOOR AND WITHIN THE CEILING AREAS, INCLUDING MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL CONTROL SYSTEMS. CONTRACTOR SHALL REFER TO THESE GENERAL NOTE REQUIREMENTS FOR CLARIFICATION ON ARCHITECTURAL DESIGN INTENT FOR ALL EXPOSED BUILDING COMPONENTS AND SYSTEMS. FURTHERMORE, CONTRACTOR SHALL ISSUE A RFI REQUEST FOR CLARIFICATION ON ANY RELATED ITEMS EXPOSED TO VIEW, FOR WHICH INFORMATION IS GIVEN HERE, AND CONTRACTED ELSEWHERE WITHIN THE DOCUMENTS.

ELECTRICAL NOTES

- 1. ALL ELECTRICAL POWER OUTLETS SHALL BE COMMERCIAL GRADE IN ALL AREAS. FACE PLATES SHALL BE INSTALLED WITH STAINLESS STEEL FLAT HEAD SCREW FASTENERS TO MATCH ALL DEVICE AND FACEPLATE COLORS ARE TO BE VERIFIED WITH THE OWNER OR APPROVED REPRESENTATIVE.
- 2. EXPOSED CONDUIT SHALL BE INSTALLED STRAIGHT, LEVEL, UNIFORMLY SPACED, AND PARALLEL TO EXPOSED STRUCTURAL ELEMENTS.
- 3. THE DESIGN INTENT FOR UNDERSLAB CONDUIT IS TO SUPPLY POWER & DATA TO FLOOR RECEPTACLES AND "FLOATING" WALLS. "FLOATING" WALLS ARE WALL PARTITIONS WHICH DO NOT CONNECT TO THE ROOF DECK OR STRUCTURE ABOVE, DO NOT CONNECT TO A FINISHED CEILING, OR DO NOT CONNECT TO AN EXTERIOR PERIMETER BUILDING WALL. THE DESIGN INTENT IS TO PREVENT HANGING CONDUIT HANG DOWN OR DROP DOWN FROM THE CEILING INTO VISUALLY EXPOSED OPEN PLENUM SPACE.

HAS STANDARD

- 1. THIS PROJECT IS TO FOLLOW HOUSTON AIRPORT SYSTEM (HAS) STANDARDS, HAS STANDARDS CAN BE FOUND AT THEIR WEBSITE: HTTP://WWW.HOUSTONAIRPORTS/BIZ/TIP
- 2. ANY CONFLICTS BETWEEN HAS STANDARDS AND BID/CONSTRUCTION DOCUMENTS ARE TO BE BROUGHT TO THE ARCHITECTS ATTENTION VIA RFI.
- 3. ANY FLOOR PENETRATION WILL NEED TO BE X-RAY SCANNED. THIS INCLUDES BUT NOT LIMITED TO FLOOR ANCHORS, AND CORE DRILLING. ALL SCANS ARE TO BE SUBMITTED TO HAS / EOR FOR REVIEW BEFORE WORK CAN BE PERFORMED. GPR

REVEAL TRIM DESIGN

- 1. THE ENLARGED ELEVATIONS, SECTIONS, AND DETAILS INDICATING TYPICAL REVEALS AT THE INTERFACE BETWEEN ADJOINING MATERIALS, AND AT INTERSECTING PLANES SUCH AS HORIZONTAL AND VERTICAL.
- 2. ALL REVEALS SHALL BE CONTINUOUS AND SHALL NOT TERMINATE INTO AN INTERSECTING WALL OR CEILING SURFACE. REVEAL DESIGN IS INDICATED ON THE ELEVATIONS, SECTIONS AND DETAILS.
- 3. EXTRUDED REVEAL TRIM SHALL BE PAINTED TO MATCH THE COLOR OF THE ADJACENT FINISH, UNLESS NOTED OTHERWISE.

SPECIAL INSPECTIONS AND SUBMITTALS

- 1. A MONTHLY REPORT BY THE CONTRACTOR WITH A COPY OF THE QUALITY CONTROL LOG AND A COPY OF ALL NON-COMPLIANCE ITEMS SHALL BE MAINTAINED AND SUBMITTED TO THE OWNER AND APPROVED REPRESENTATIVE.
- 2. SPECIAL INSPECTIONS RETAINED BY THE OWNER ARE REQUIRED FOR THE FOLLOWING WORK, BUT ARE NOT LIMITED TO:
 - a. CONCRETE
 - b. ANCHOR BOLTS INSTALLED IN CONCRETE
 - c. REINFORCING STEEL AND REDRESSING STEEL
 - d. WELDING
 - e. HIGH-STRENGTH BOLTING
 - f. STRUCTURAL MASONRY.

REFLECTED CEILING PLAN NOTES

- 1. THE GENERAL NOTES HEREIN ADDRESS ARCHITECTURAL DESIGN INTENT FOR ALL BUILDING SYSTEM COMPONENTS INSTALLED ABOVE THE FLOOR AND WITHIN THE CEILING AREAS, INCLUDING MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL CONTROL SYSTEMS. CONTRACTOR SHALL REFER TO THESE GENERAL NOTE REQUIREMENTS FOR CLARIFICATION ON ARCHITECTURAL DESIGN INTENT FOR ALL EXPOSED BUILDING COMPONENTS AND SYSTEMS. FURTHERMORE, CONTRACTOR SHALL ISSUE A RFI REQUEST FOR CLARIFICATION ON ANY RELATED ITEMS EXPOSED TO VIEW, FOR WHICH INFORMATION IS GIVEN HERE, AND CONTRACTED ELSEWHERE WITHIN THE DOCUMENTS.
- 2. MINIMIZE EXPOSED ACCESS HATCHES IN LOBBY AREAS, WHERE FINISH CEILING GYP BOARD PLACES TO EQUIPMENT IN ADJACENT ACCESSIBLE CEILING AREAS ADJACENT TO HARD LID GYP. BOARD CEILINGS.
- 3. ELEMENTS INDICATED ON THE ARCHITECTURAL CEILING PLANS, INCLUDING LIGHTS, AIR DIFFUSERS, SPRINKLER HEADS (WHERE INDICATED), DUCT RUNS, PIPES, SPEAKERS, ETC., INDICATE ARCHITECTURAL DESIGN INTENT. NOTIFY OWNER OR APPROVED REPRESENTATIVE OF ANY REQUIRED VARIATIONS TO THE INDICATED DESIGN INTENT PRIOR TO SUBMITTING BIDS FOR THE WORK. PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.
- 4. ALL ACCESS HATCHES TO BE KEYS AWAKE.
- 5. THE CONTRACTOR SHALL REFER TO THE CONTRACT DOCUMENTS FOR THE LOCATION OF ALL EXPOSED MECHANICAL, ELECTRICAL, OR PLUMBING COMPONENTS, INCLUDING DUCTS, DIFFUSERS, RETURN GRILLES, THERMOSTATS, LIGHT FIXTURES, CONDUITS, SENSORS, SWITCHES, OUTLETS, FIRE SPRINKLER PIPES, SPRINKLER HEADS AND EQUIPMENT REQUIRING VISIBLE ACCESS HATCHES, INCLUDING JOINTING BOXES, PULL BOXES, CLEAN OUTS, ETC., OR SPECIFICATIONS TO THE EXPOSED MECHANICAL, ELECTRICAL OR PLUMBING COMPONENT IS IMPORTANT TO THE ARCHITECTURAL DESIGN INTENT, AND INDICATED ON THE ARCHITECTURAL PLANS, WHERE ITEMS ARE NOT SPECIFICALLY INDICATED ON THE ARCHITECTURAL PLANS, THE CONTRACTOR SHALL FOLLOW THE LAYOUTS INDICATED TO EXPOSED PLANS, BUT ONLY AFTER VERIFICATION FROM OWNER OR APPROVED REPRESENTATIVE.
- 6. WHERE DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, INCLUDING THE QUANTITY OF FIXTURES INDICATED, THE CONTRACTOR SHALL ASK THE OWNER OR APPROVED REPRESENTATIVE IN WRITING FOR AN INTERPRETATION PRIOR TO PURCHASING MATERIALS OR COMMENCEMENT OF THE WORK. OTHERWISE, THE LARGEST QUANTITY AND/OR MOST EXPENSIVE PRODUCT INDICATED SHALL APPLY.
- 7. ALL KNOWN CEILING ELEMENTS HAVE BEEN INDICATED ON THE ARCHITECTURAL PLANS, INCLUDING LIGHT FIXTURES, AIR DIFFUSERS, AND DUCT WORK. ITEMS NOT INDICATED INCLUDE EXPOSED CONDUIT. NOTIFY OWNER OR APPROVED REPRESENTATIVE OF ANY REQUIRED VARIATIONS TO THE INDICATED LAYOUTS PRIOR TO PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.
- 8. NOTIFY OWNER OR APPROVED REPRESENTATIVE OF ANY VARIATIONS BETWEEN THE NOTES HEREIN AND DRAWINGS PRIOR TO PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.

HAS STANDARD

- 1. THIS PROJECT IS TO FOLLOW HOUSTON AIRPORT SYSTEM (HAS) STANDARDS, HAS STANDARDS CAN BE FOUND AT THEIR WEBSITE: HTTP://WWW.HOUSTONAIRPORTS/BIZ/TIP
- 2. ANY CONFLICTS BETWEEN HAS STANDARDS AND BID/CONSTRUCTION DOCUMENTS ARE TO BE BROUGHT TO THE ARCHITECTS ATTENTION VIA RFI.
- 3. ANY FLOOR PENETRATION WILL NEED TO BE X-RAY SCANNED. THIS INCLUDES BUT NOT LIMITED TO FLOOR ANCHORS, AND CORE DRILLING. ALL SCANS ARE TO BE SUBMITTED TO HAS / EOR FOR REVIEW BEFORE WORK CAN BE PERFORMED. GPR

SIGNAGE

- 1. ALL FINAL DESIGN, ENGINEERING & AMOUNT/SIZING OF STRUCTURAL SIGN SUPPORT ELEMENTS, MATERIAL TYPES/THICKNESSES, DIMENSIONS AND ATTACHMENT METHODS SHALL BE PERFORMED AND APPROVED BY A LICENSED ENGINEER TO MEET OR EXCEED ALL APPLICABLE LOCAL AND NATIONAL CODES.
- 2. FINAL ENGINEERING, DIMENSIONS, MATERIALS AND FABRICATION ARE THE RESPONSIBILITY OF THE CONTRACTOR/FABRICATOR/INSTALLER TO ENSURE THE HIGHEST QUALITY FIT AND FINISH FOR ALL COMPONENTS OF THE COMPLETED PRODUCT. ALL FINAL DETAILING AND SPECIFICATIONS TO BE PROVIDED BY THE CONTRACTOR, FABRICATOR, AND/OR INSTALLER WITHIN THEIR FINAL APPROVED FABRICATION READY SHOP DRAWINGS.
- 3. WHEREVER DISSIMILAR METALS ARE IN CONTACT, ALWAYS SEPARATE CONTACT SURFACES PRIOR TO ASSEMBLY OR INSTALLATION WITH THE NECESSARY PROTECTIVE COATINGS/GASKETS/WASHERS TO PREVENT GALVANIC CORROSION.
- 4. FINAL FABRICATION METHODS, QUALITY AND FIT / FINISH TO BE REVIEWED & APPROVED BY HAS AND THE WAYFINDING DESIGN CONSULTANTS THRU PROTOTYPE REVIEWS PRIOR TO FINAL PRODUCTION RUN / INSTALLATION PROCESSES.
- 5. COLORS SHOWN ARE FOR REFERENCE ONLY, AND ARE SUBJECT TO THE LIMITATIONS OF THE PRINTING PROCESS AND / OR VARIANCE OF ELECTRONIC RGB SCREEN DISPLAYS. REFER TO COLOR SYSTEM SWATCHES AND/OR FINAL FINISH SAMPLES FOR ACCURATE REFERENCE.

REVEAL TRIM DESIGN

- 1. THE ENLARGED ELEVATIONS, SECTIONS, AND DETAILS INDICATING TYPICAL REVEALS AT THE INTERFACE BETWEEN ADJOINING MATERIALS, AND AT INTERSECTING PLANES SUCH AS HORIZONTAL AND VERTICAL.
- 2. ALL REVEALS SHALL BE CONTINUOUS AND SHALL NOT TERMINATE INTO AN INTERSECTING WALL OR CEILING SURFACE. REVEAL DESIGN IS INDICATED ON THE ELEVATIONS, SECTIONS AND DETAILS.
- 3. EXTRUDED REVEAL TRIM SHALL BE PAINTED TO MATCH THE COLOR OF THE ADJACENT FINISH, UNLESS NOTED OTHERWISE.

SPECIAL INSPECTIONS AND SUBMITTALS

- 1. A MONTHLY REPORT BY THE CONTRACTOR WITH A COPY OF THE QUALITY CONTROL LOG AND A COPY OF ALL NON-COMPLIANCE ITEMS SHALL BE MAINTAINED AND SUBMITTED TO THE OWNER AND APPROVED REPRESENTATIVE.
- 2. SPECIAL INSPECTIONS RETAINED BY THE OWNER ARE REQUIRED FOR THE FOLLOWING WORK, BUT ARE NOT LIMITED TO:
 - a. CONCRETE
 - b. ANCHOR BOLTS INSTALLED IN CONCRETE
 - c. REINFORCING STEEL AND REDRESSING STEEL
 - d. WELDING
 - e. HIGH-STRENGTH BOLTING
 - f. STRUCTURAL MASONRY.

DEFERRED SUBMITTALS

- 1. THE FOLLOWING BUILDING SYSTEMS SHALL BE DESIGN/BUILD BY THE CONTRACTOR AND SHALL BE SUBMITTED FOR SEPARATE REVIEW TO THE AUTHORITIES HAVING JURISDICTION:
 - a. NON-STRUCTURAL MISCELLANEOUS STEEL FABRICATIONS
 - b. ELECTRIFIED HARDWARE / ACCESS CONTROL HARDWARE
 - c. FIRE SPRINKLER / FIRE ALARM
- 2. THE FOLLOWING BUILDING SYSTEMS HAVE BEEN SHOWN IN THE CONTRACT DRAWINGS, BUT SHALL BE DESIGN/BUILD BY THE CONTRACTOR BASED ON THE DESIGN IN THE CONSTRUCTION DOCUMENTS
 - a. METAL STUD FRAMING

ELECTRICAL NOTES

- 1. ALL ELECTRICAL POWER OUTLETS SHALL BE COMMERCIAL GRADE IN ALL AREAS. FACE PLATES SHALL BE INSTALLED WITH STAINLESS STEEL FLAT HEAD SCREW FASTENERS TO MATCH ALL DEVICE AND FACEPLATE COLORS ARE TO BE VERIFIED WITH THE OWNER OR APPROVED REPRESENTATIVE.
- 2. EXPOSED CONDUIT SHALL BE INSTALLED STRAIGHT, LEVEL, UNIFORMLY SPACED, AND PARALLEL TO EXPOSED STRUCTURAL ELEMENTS.
- 3. THE DESIGN INTENT FOR UNDERSLAB CONDUIT IS TO SUPPLY POWER & DATA TO FLOOR RECEPTACLES AND "FLOATING" WALLS. "FLOATING" WALLS ARE WALL PARTITIONS WHICH DO NOT CONNECT TO THE ROOF DECK OR STRUCTURE ABOVE, DO NOT CONNECT TO A FINISHED CEILING, OR DO NOT CONNECT TO AN EXTERIOR PERIMETER BUILDING WALL. THE DESIGN INTENT IS TO PREVENT HANGING CONDUIT HANG DOWN OR DROP DOWN FROM THE CEILING INTO VISUALLY EXPOSED OPEN PLENUM SPACE.
- 4. NO UNDER SLAB CONDUIT SHALL EXTEND TO CEILING MOUNTED DEVICES UNLESS CONCEALED FROM VIEW.
- 5. NO OVERHEAD OR CEILING MOUNTED CONDUIT SHALL EXTEND DOWN FROM THE CEILING TO FLOOR OR WALL DEVICES UNLESS CONCEALED FROM VIEW.
- 6. POWER DISTRIBUTION TO OVERHEAD LIGHTS AND OTHER OVERHEAD EQUIPMENT SHALL BE SUPPLIED BY CONDUIT MECHANICALLY AND ELECTRICALLY SECURELY LOCATED BELOW STEEL BEAMS AND WITHIN THE OPEN WEB JOIST CAVITY.
- 7. NO CONDUIT SHALL BE PLACED ON ANY EXPOSED COLUMN SURFACES UNLESS SPECIFICALLY INDICATED WITHIN THE ARCHITECTURAL PLANS, AND BE FULLY COORDINATED WITH THE OWNER OR APPROVED REPRESENTATIVE PRIOR TO INSTALLATION.
- 8. EXPOSED CEILING CONDUITS SHALL BE GANGED TOGETHER WHEREVER POSSIBLE, AND SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO EXPOSED STRUCTURAL ELEMENTS. DIAGONAL ROUTING SHALL NOT BE ACCEPTED.
- 9. THERE SHALL BE NO EXPOSED CONDUITS ON/OR SPANNING ACROSS SKYLIGHT AREAS OR CLERESTORY.
- 10. EXPOSED CEILING CONDUIT SHALL BE INSTALLED STRAIGHT, LEVEL, AND UNIFORMLY SPACED.
- 11. STRUCTURED CEILING SOFFITS SHALL HAVE POWER FED FROM CONCEALED CONDUITS WHICH EXTEND FROM THE PERIMETER WALL.

LIGHTING GENERAL NOTES

- 1. SCHEDULED LIGHT FIXTURE ARE PROPRIETARY PRODUCTS AND SHALL BE INTERPRETED AS THE BASIS-OF-DESIGN. THE SCHEDULED FIXTURES SHALL TAKE PRECEDENCE OVER OTHER PRODUCTS INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS. ALTERNATIVE FIXTURES MAY BE USED IF EQUAL TO THE BASIS OF DESIGN. ALTERNATIVE FIXTURES SHALL MATCH THE PERFORMANCE, QUALITY, PROFILE, AND LAMPING OF THE BASIS-OF-DESIGN FIXTURE; CONTRACTOR SHALL CONSULT WITH OWNER OR APPROVED REPRESENTATIVE BEFORE PROCEEDING WITH AN ALTERNATIVE PRODUCT TO THAT WHICH IS SPECIFICALLY IDENTIFIED IN THE DRAWINGS.

ACCESSIBILITY NOTES

- 1. AN EXIT IS A CONTINUOUS AND UNOBSTRUCTED MEAN OF EGRESS TO A PUBLIC WAY AND SHALL INCLUDE INTERVENING ROOMS, DOORS, AISLES, AND YARDS. A PUBLIC WAY IS ANY STREET, ALLEY OR SIMILAR PARCEL OF LAND UNOBSTRUCTED FROM GROUND TO SKY WHICH IS DEDICATED FOR PUBLIC USE AND HAVING A CLEAR WIDTH OF NOT LESS THAN 10 FEET.
- 2. CIRCULATION AISLES AND PEDESTRIAN WAYS SHALL BE SIZED ACCORDING TO FUNCTIONAL REQUIREMENTS BUT SHALL NOT BE LESS THAN 36" IN CLEAR WIDTH.
- 3. EVERY PORTION OF EVERY BUILDING IN WHICH ARE INSTALLED SEATS, TABLES, MERCHANDISE, EQUIPMENT, OR SIMILAR MATERIALS SHALL BE PROVIDED WITH AISLES LEADING TO AN EXIT.
- 4. OBJECTS PROTRUDING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, PASSAGEWAYS OR AISLES.
- 5. FREE STANDING OBJECTS MOUNTED ON POSTS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE FINISHED FLOOR.
- 6. CLEAR FLOOR SPACE THAT ALLOWS A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT.
- 7. THE MINIMUM CLEAR FLOOR SPACE REQUIRED TO ACCOMMODATE A SINGLE STATIONARY WHEELCHAIR IS 30" BY 48". THE MINIMUM CLEAR FLOOR SPACE MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH. THE MINIMUM CLEAR WIDTH FOR A SINGLE WHEELCHAIR PASSAGE SHALL BE 32" AT A POINT AND 30" CONTINUOUSLY.
- 8. THE MINIMUM CLEAR WIDTH FOR 2 WHEELCHAIRS TO PASS SHALL BE 60".
- 9. THE MINIMUM CLEAR WIDTH REQUIRED FOR A WHEELCHAIR TO TURN AROUND AN OBSTRUCTION SHALL BE 30" WHERE THE OBSTRUCTION IS 48" OR MORE IN LENGTH AND 42" WHERE THE OBSTRUCTION IS LESS THAN 48" IN LENGTH.
- 10. CONTRACTOR SHALL NOTIFY ARCHITECT SHOULD ANY OF THE ABOVE GENERAL NOTES BE IN CONFLICT WITH THE TEXAS ACCESSIBILITY STANDARDS.



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS
PHASE 2

Table with 2 columns: C.I.P. No., A.P. No.; C.O.H. No., D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003
713.868.3121 www.rdlr.com



HENDERSON ROGERS
structural engineers

2603 Augusta, Suite 800 Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

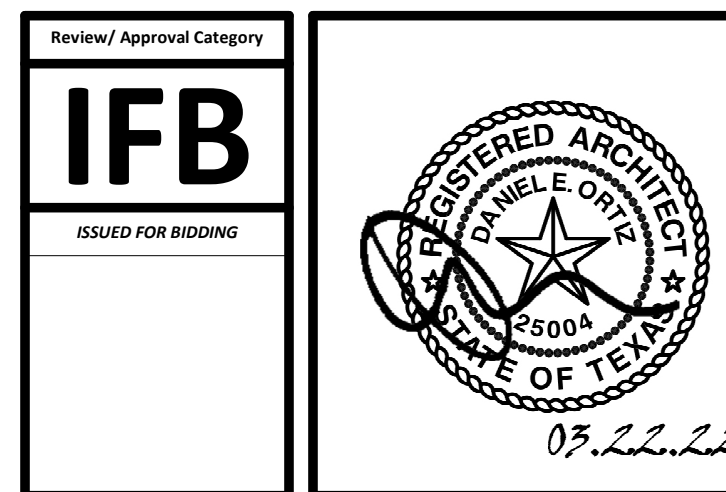
DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS

Table with 4 columns: No., DESCRIPTION, DATE, BY

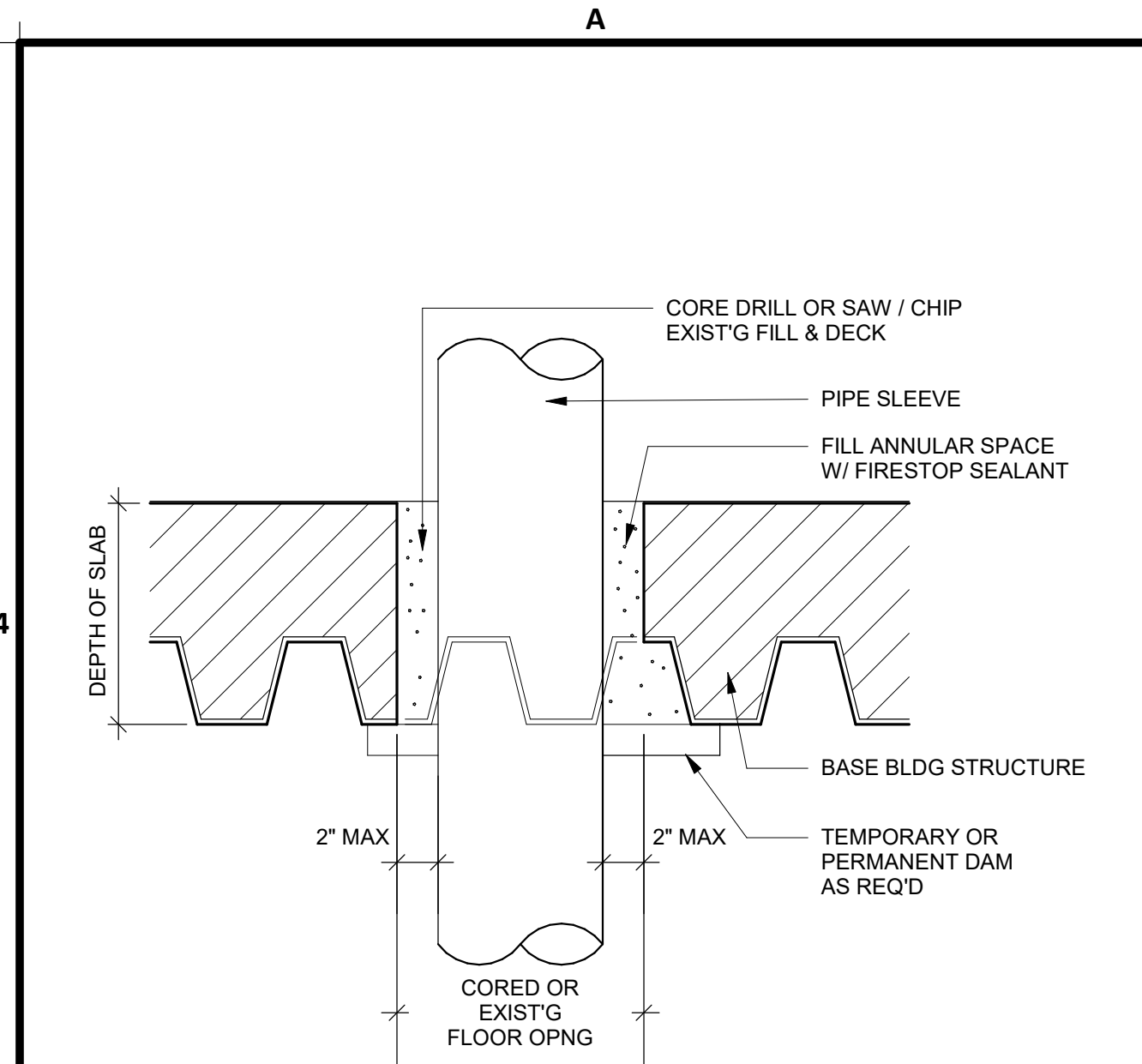
DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

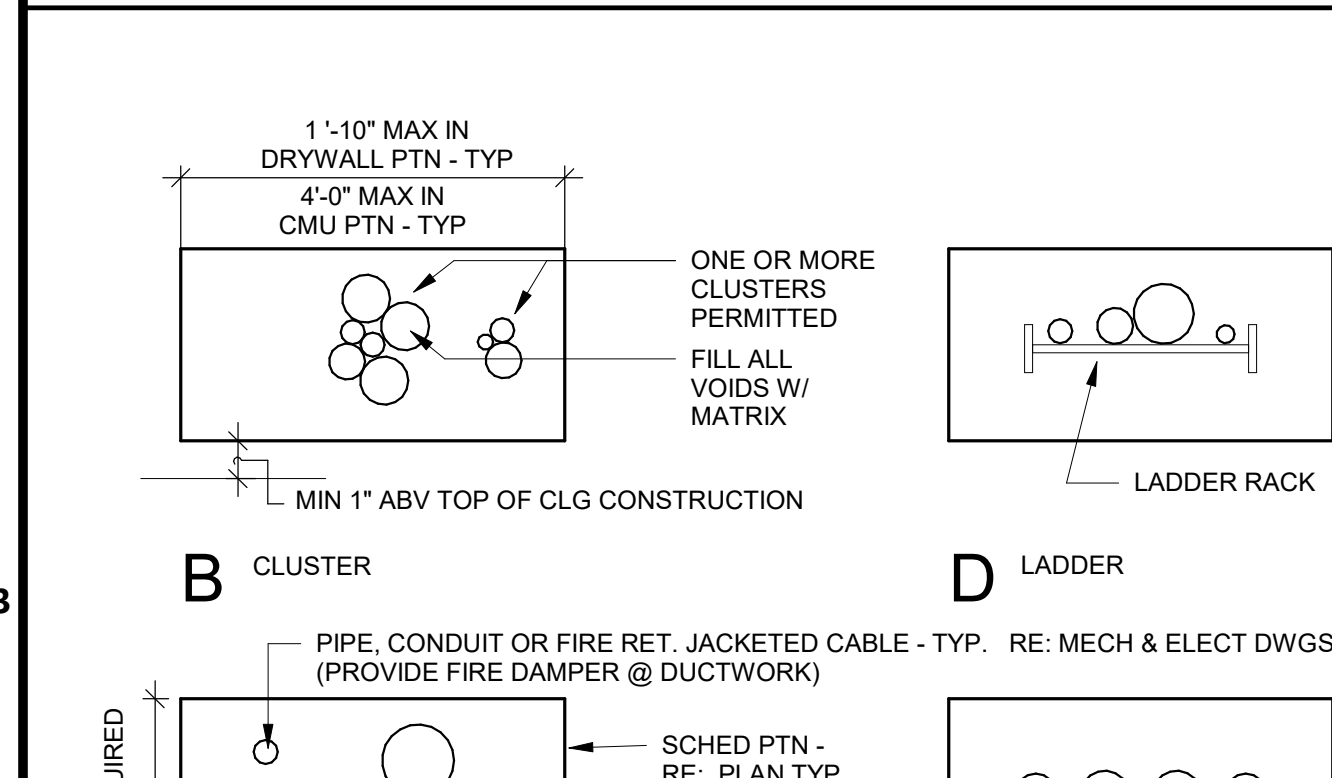


SHEET NAME: GENERAL NOTES
SHEET No. G-003 SCALE: 1/4" = 1'-0"

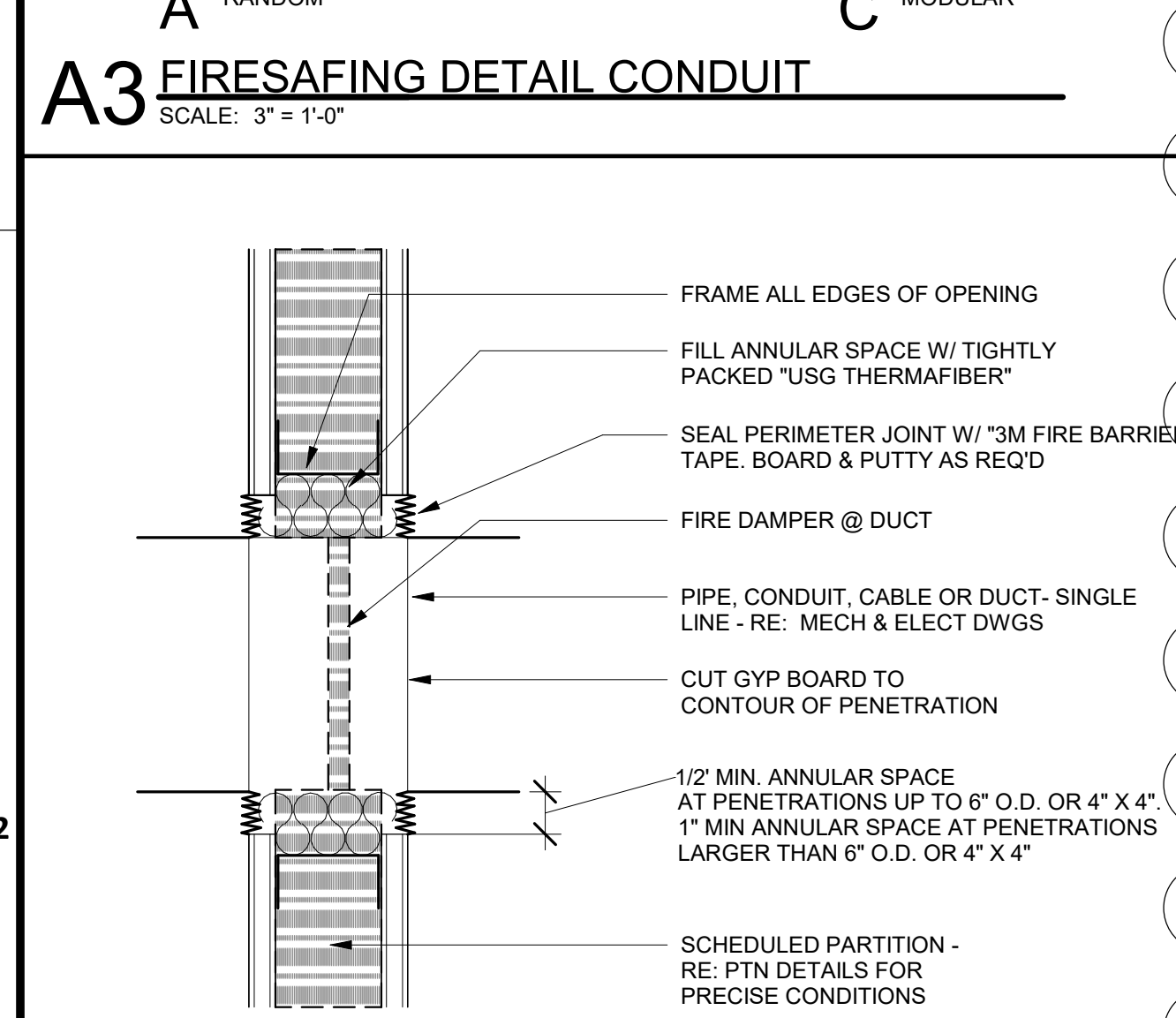
SHEET SIZE: 30"x42" ARCH E1



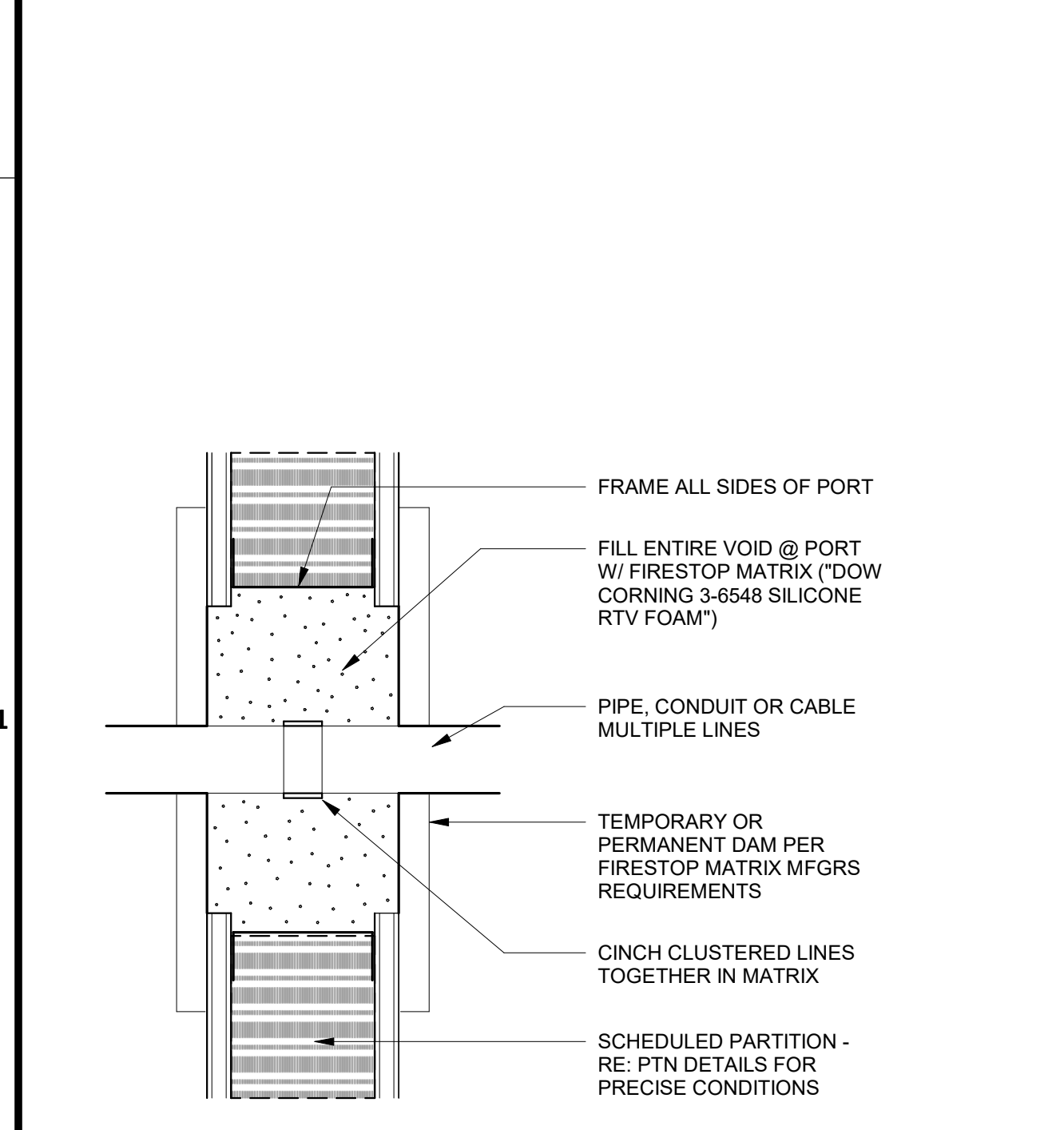
A4 FIRESAFING FLOOR CORE
SCALE: 3" = 1'-0"



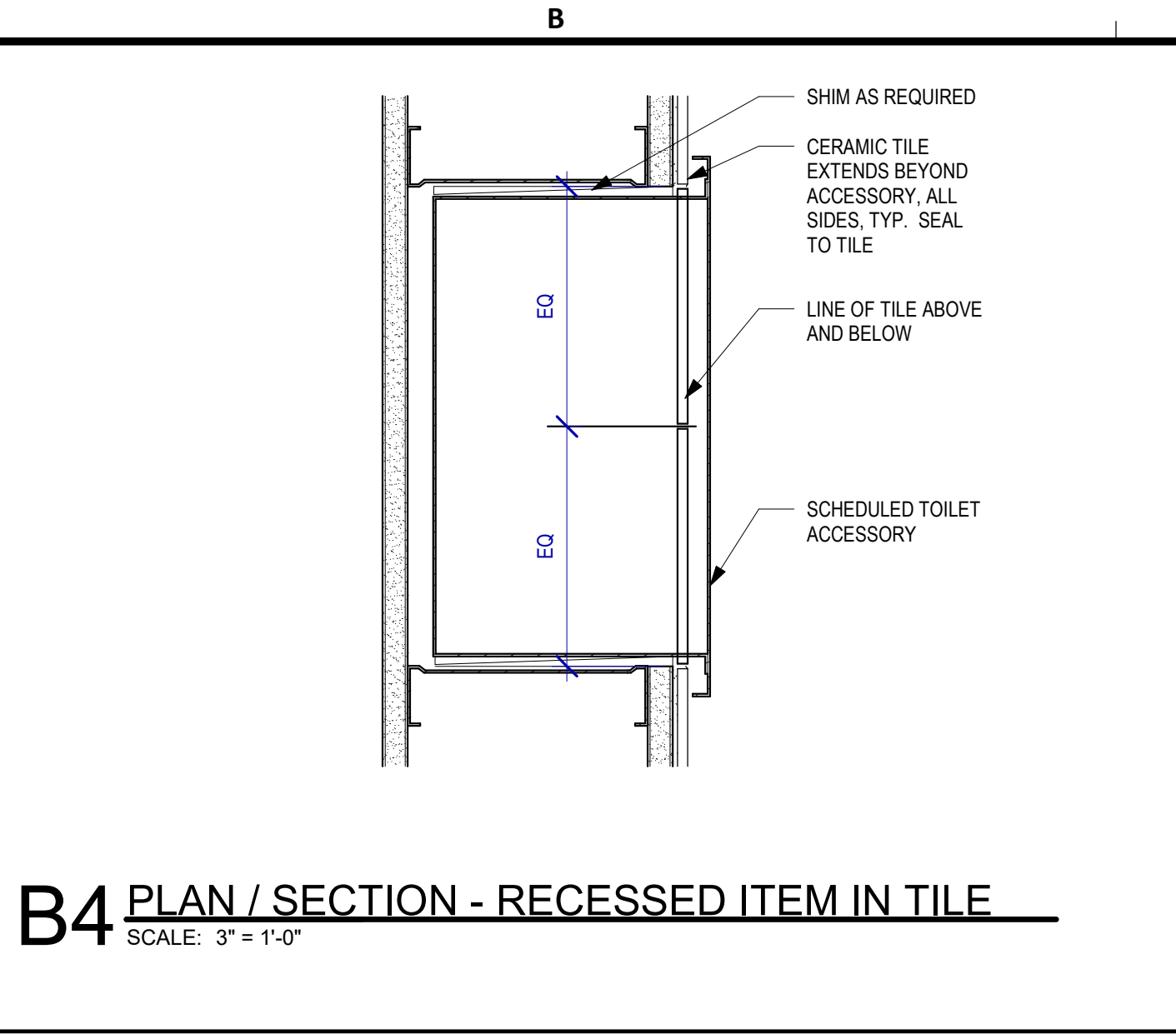
A3 FIRESAFING DETAIL CONDUIT
SCALE: 3" = 1'-0"



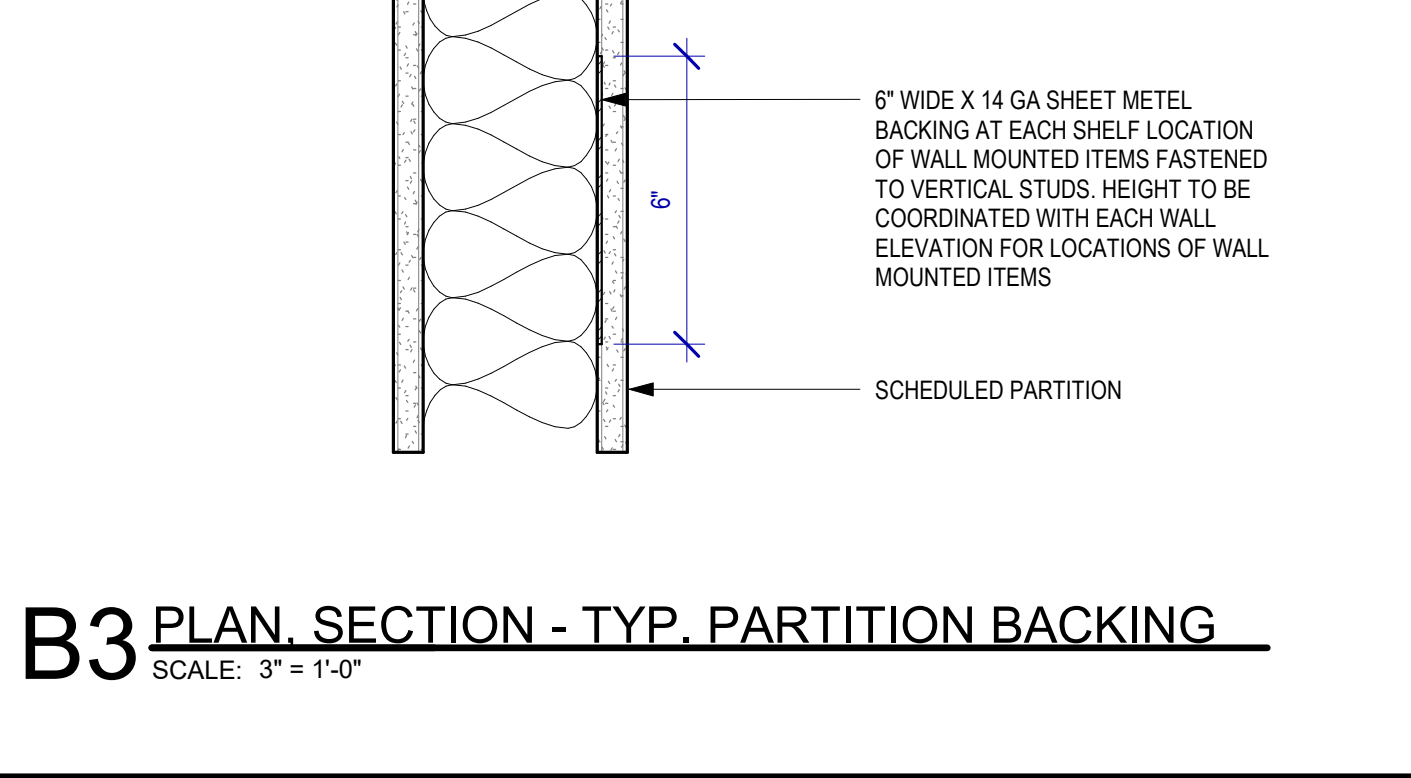
A2 FIRESAFING DETAIL DAMPER
SCALE: 3" = 1'-0"



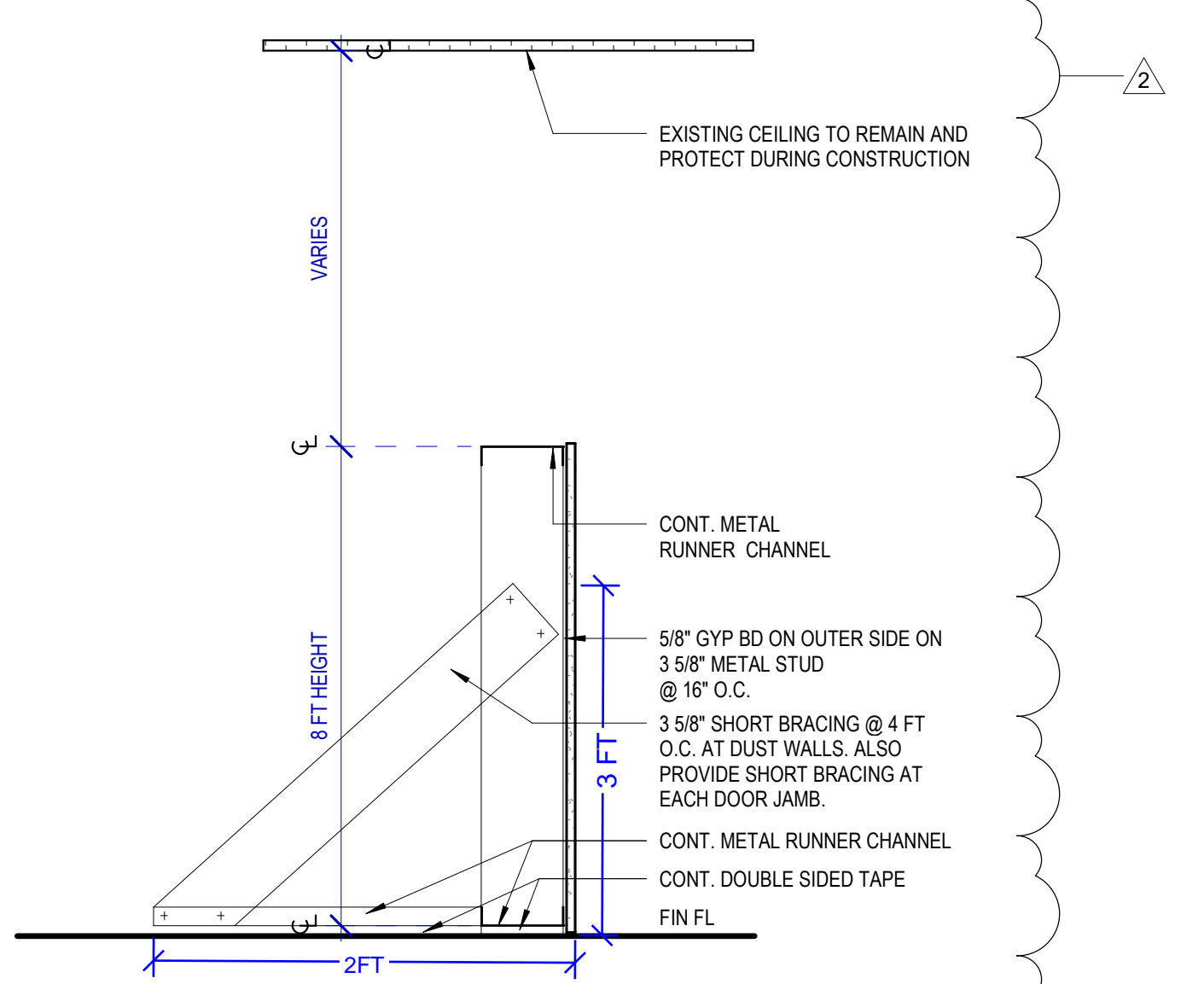
A1 FIRESAFING DETAIL - PIPE THRU PARTITION
SCALE: 3" = 1'-0"



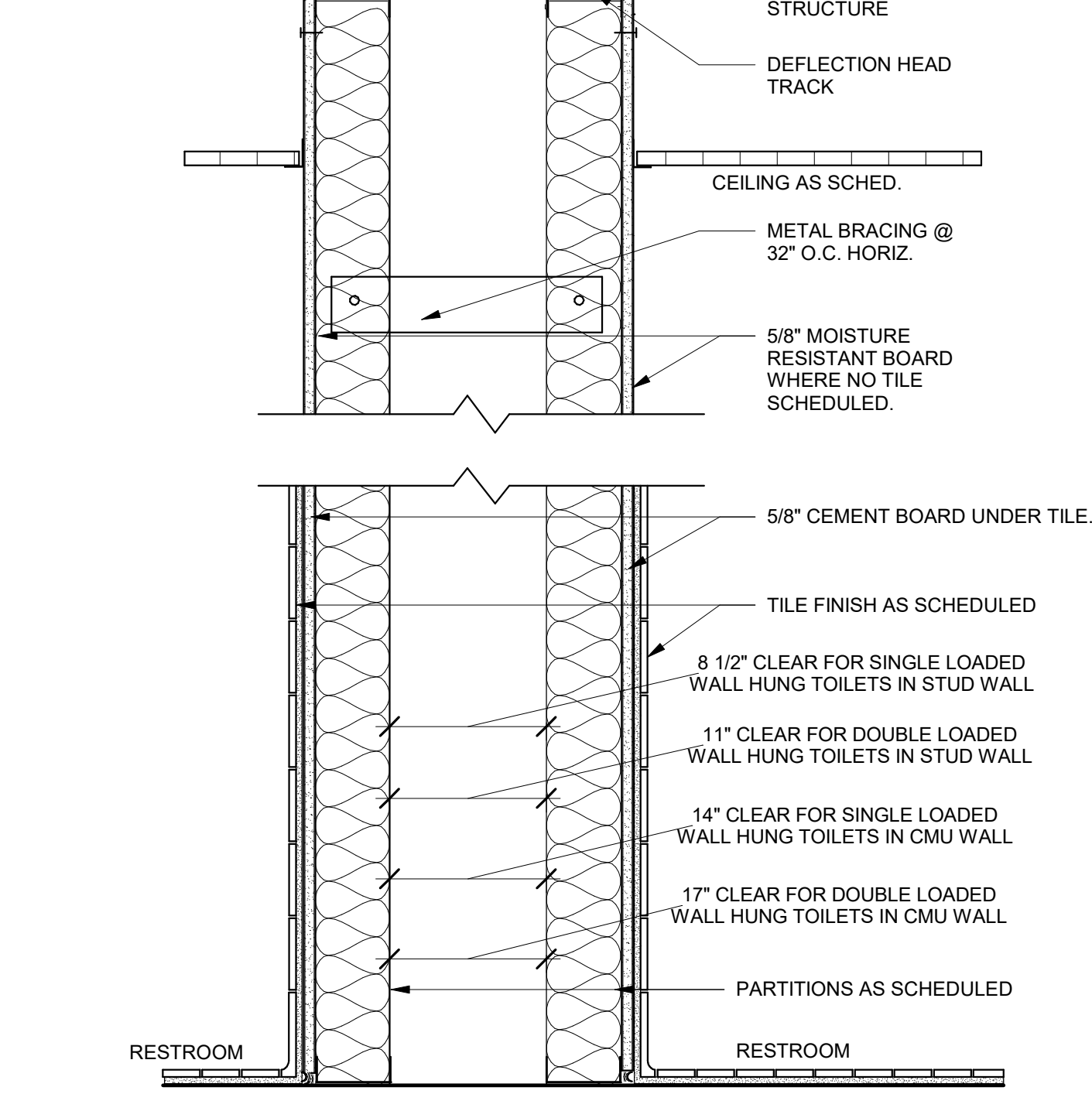
B4 PLAN / SECTION - RECESSED ITEM IN TILE
SCALE: 3" = 1'-0"



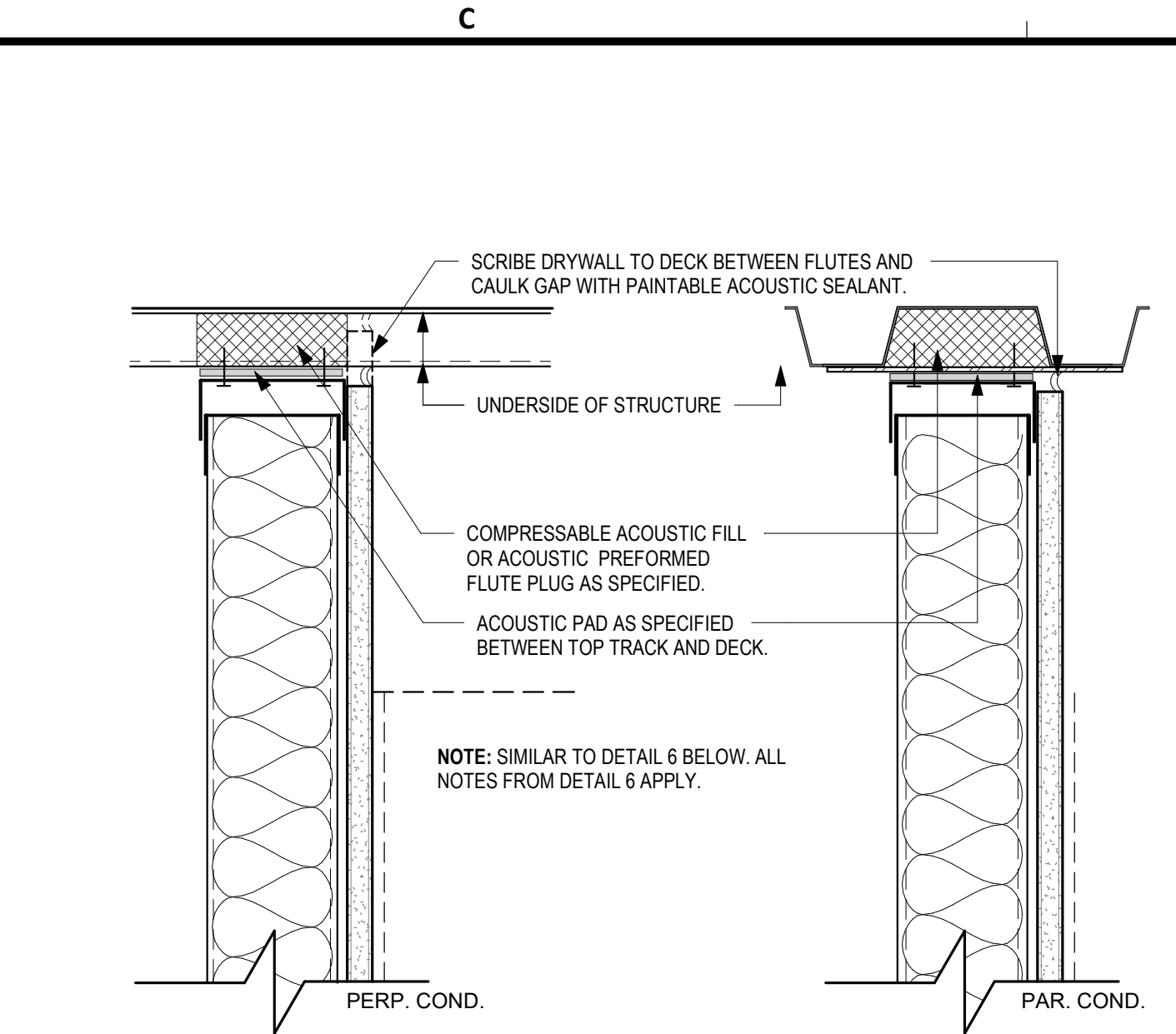
B3 PLAN, SECTION - TYP. PARTITION BACKING
SCALE: 3" = 1'-0"



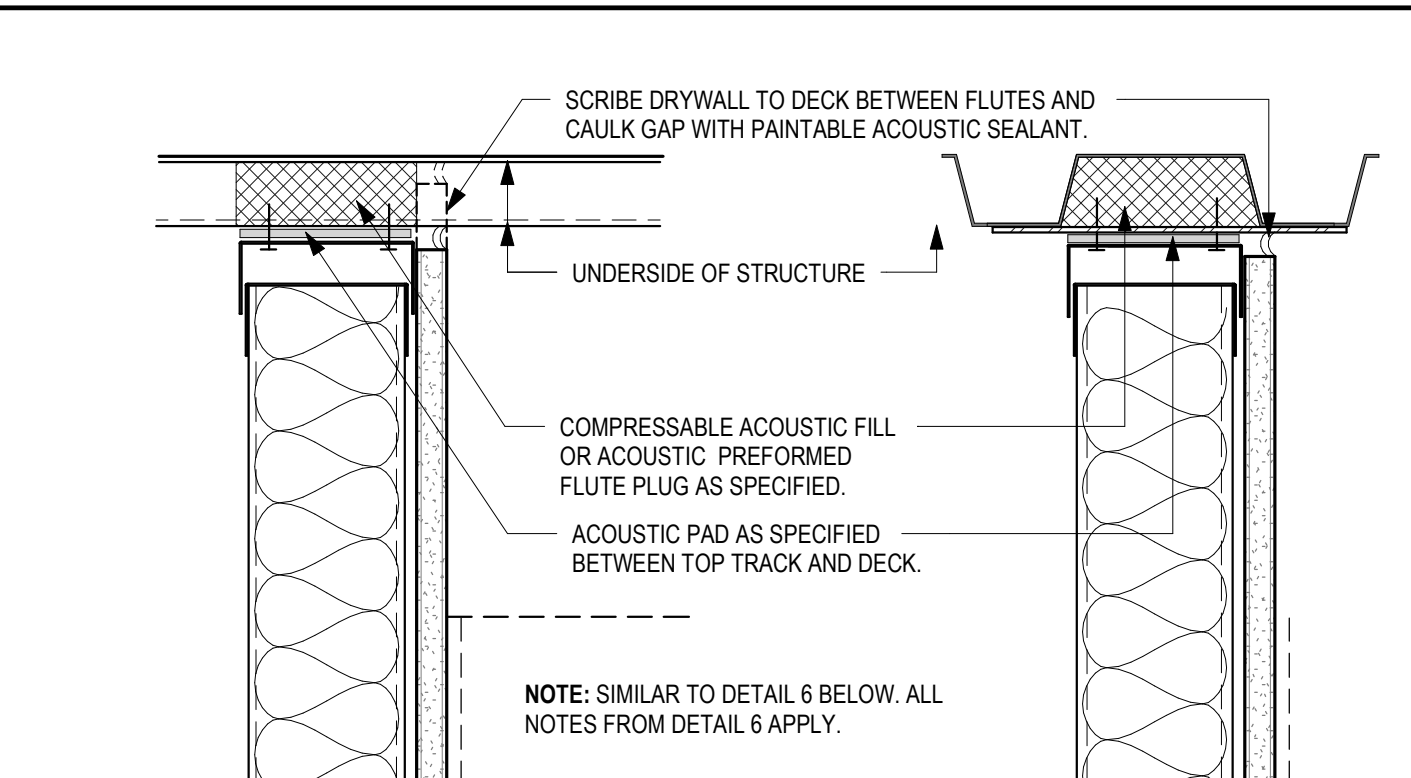
B2 DUST WALL
SCALE: 1" = 1'-0"



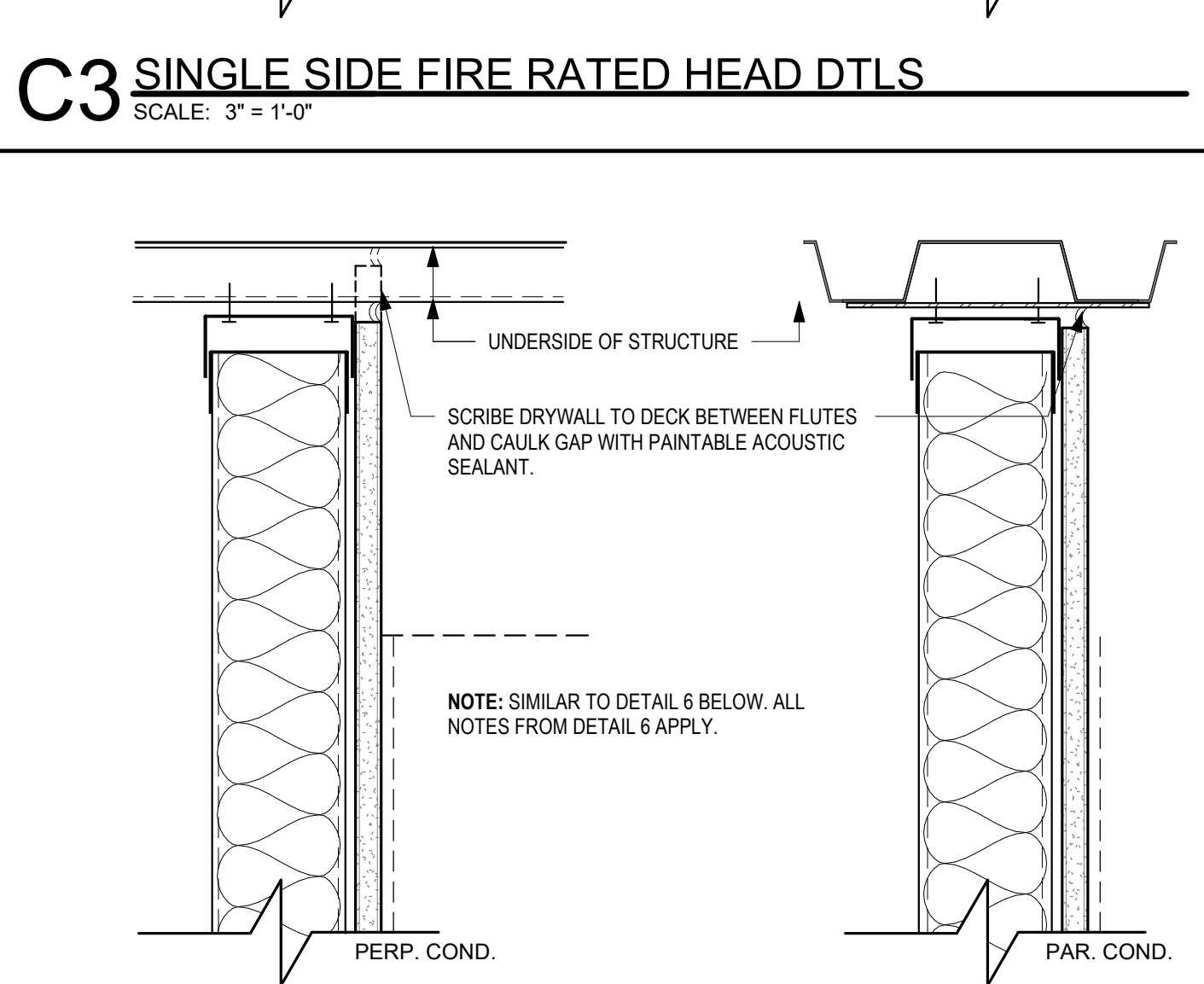
B1 TYPICAL PLUMBING CHASE DETAIL
SCALE: 1 1/2" = 1'-0"



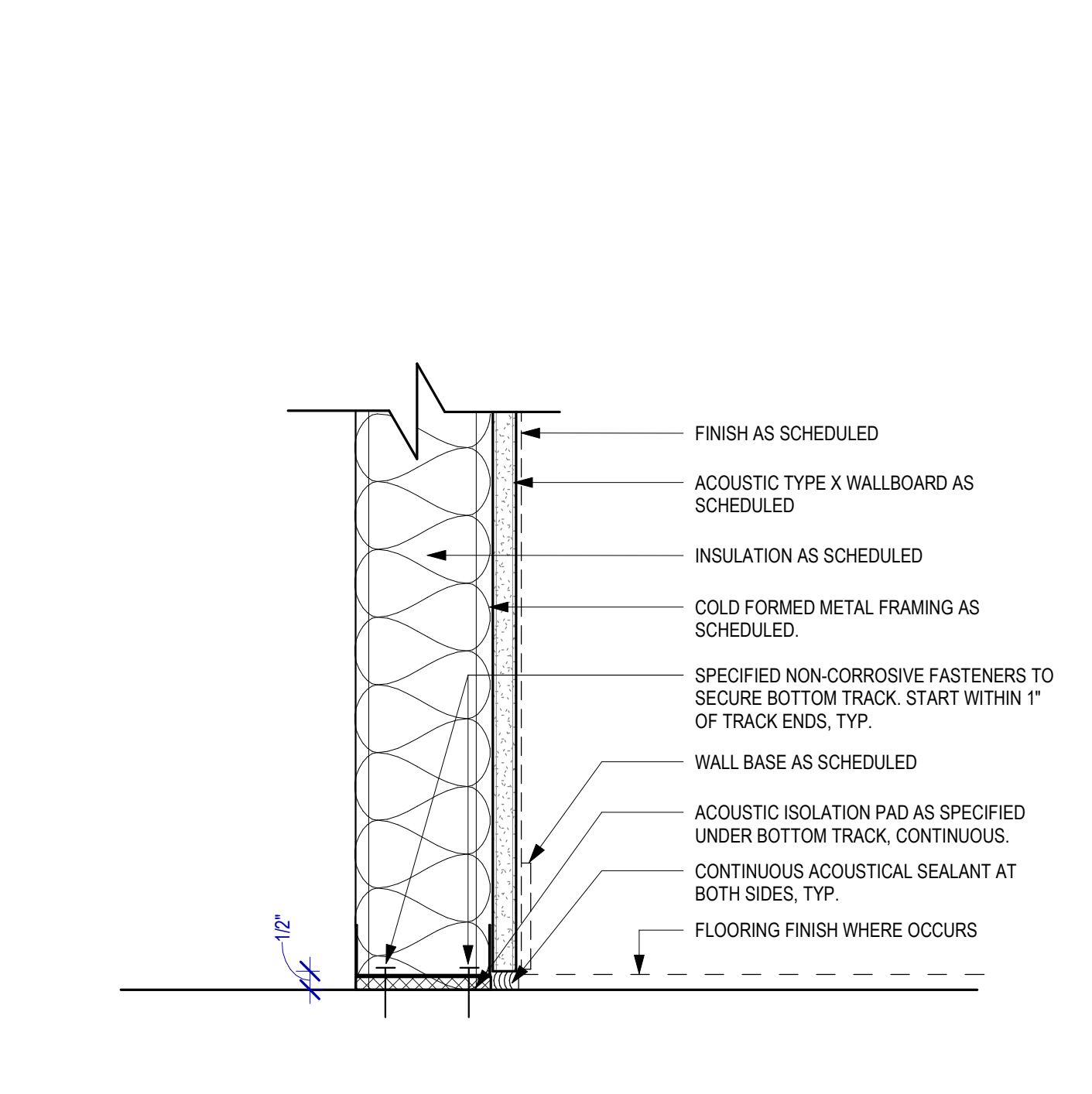
C4 SINGLE SIDE PARTITION ACOUSTIC HEAD DTLS
SCALE: 3" = 1'-0"



C3 SINGLE SIDE FIRE RATED HEAD DTLS
SCALE: 3" = 1'-0"

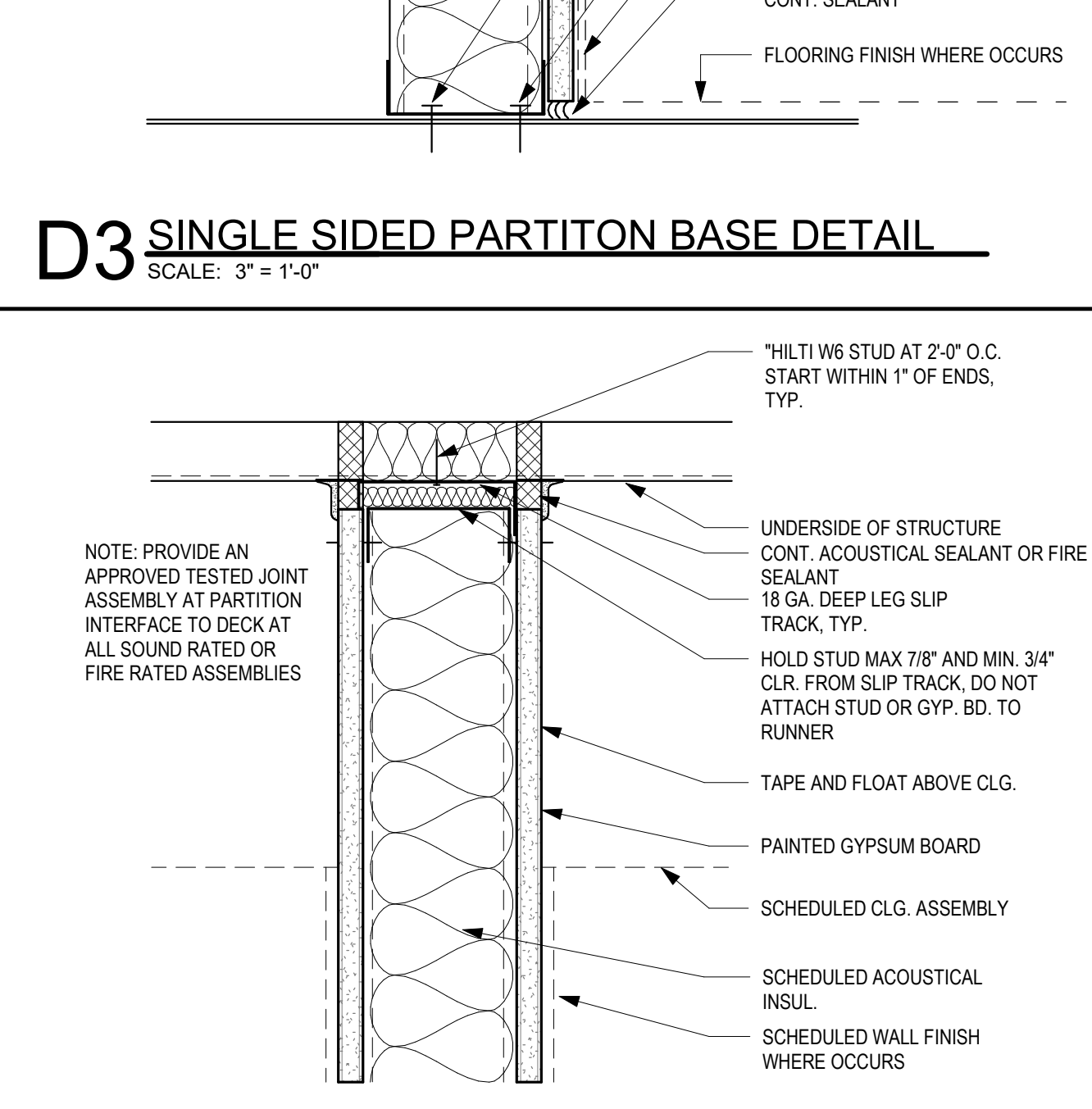


C2 SINGLE SIDE PARTITION TYPICAL HEAD DETAILS
SCALE: 3" = 1'-0"

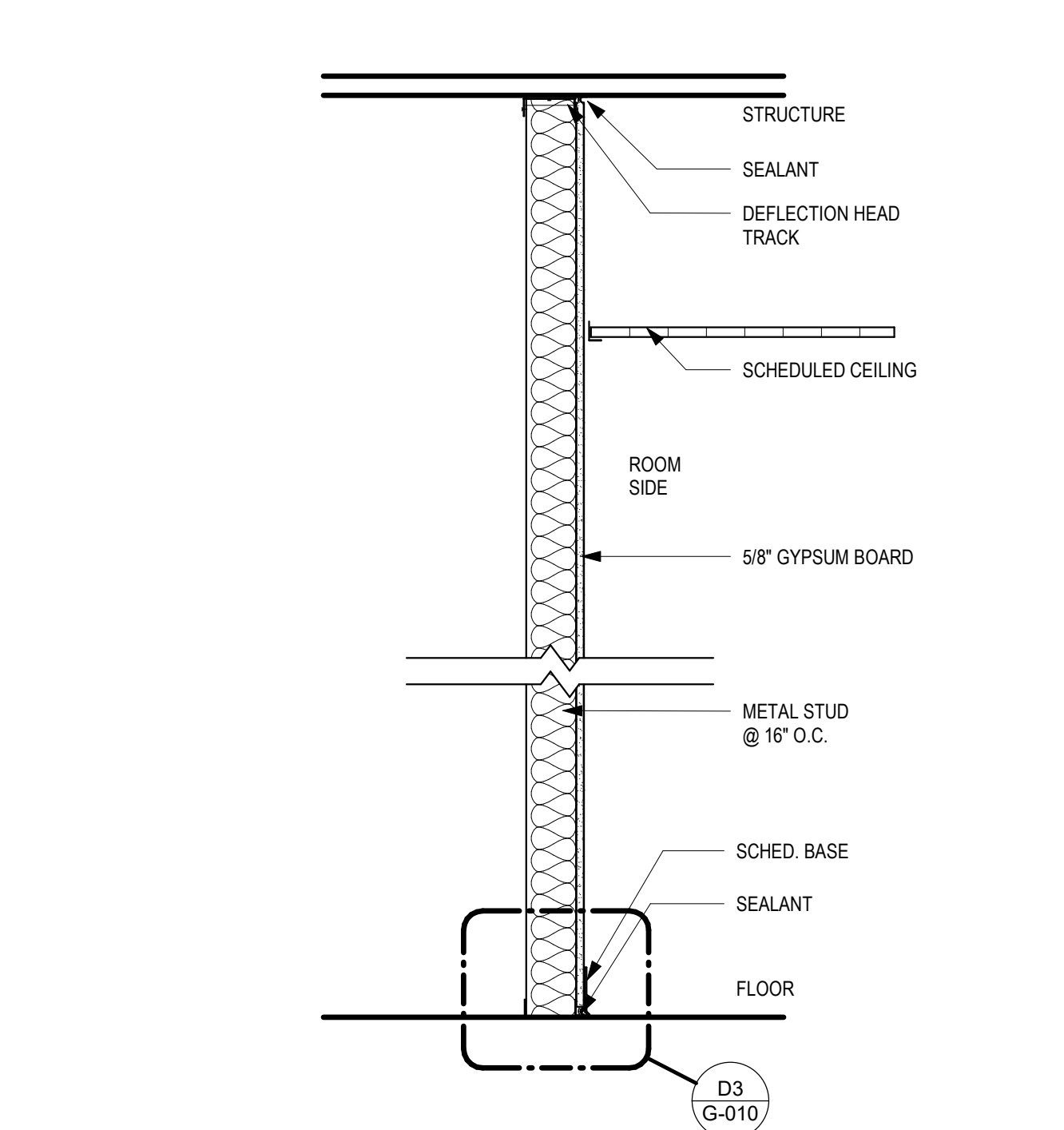


C1 SINGLE SIDE ACOUSTIC PARTITION BASE
SCALE: 3" = 1'-0"

- ### PARTITION TYPE NOTES
- PARTITION TYPES SCHEDULE DEFINES ASSEMBLY TYPES AND VARIATIONS WITHIN EACH TYPE REFER TO FLOOR PLANS TO DETERMINE THE LOCATION FOR EACH TYPE.
 - REFER TO G-003 FOR GENERAL NOTES
 - ALL GYPSUM WALLBOARD (INCLUDING CEILINGS) TO BE INSTALLED IN WET OR DAMP AREAS SUCH AS TOILETS, KITCHENS, JANITOR CLOSETS, MECHANICAL ROOMS, UNCONDITIONED SPACES, BELOW GRADE AREAS, OR ANY OTHER AREAS SUSCEPTIBLE TO MOISTURE OR DAMPNESS SHALL BE WATER RESISTANT TYPE, U.N.O.
 - ALL WALLBOARD INSTALLED WHERE TILE FINISH IS SCHEDULED SHALL BE 5/8" CEMENT BACKER BOARD U.N.O.
 - USE DEEP LEG DEFLECTION TRACK @ THE TOP OF ALL PARTITIONS SECURED TO UNDERSIDE OF STRUCTURE.
 - AT FIRE RATED WALLS APPLY AN ADDITIONAL LAYER OF WALLBOARD ON ANY FACES RECEIVING REVEALS.
 - PROVIDE ADDITIONAL METAL FRAMING AS REQUIRED TO SUPPORT GYPSUM BOARD FINISHES. IF NO SUPPORT IS INDICATED PROVIDE FRAMING ASSEMBLY THAT COMPLES WITH MIN. DESIGN LOAD OF L420 & 10 PSF AND 5PSF LOADING, TYPICAL FOR MECHANICAL PLENUMS AND ELEVATOR SHAFTS.
 - LIMITING HEIGHTS ARE CONTRACTOR'S RESPONSIBILITY. TO BE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LIMITING WALL HEIGHT TABLES. ALL PARTITIONS SHALL BE BRACED AS REQUIRED TO MEET MINIMUM DEFLECTION CRITERIA.
 - ALL METAL STUDS EXTEND TO STRUCTURE U.N.O. BY TYPE DESIGNATION OR SPECIFIC DETAIL.
 - ALIGN EXTERIOR CORNERS AND JOINTS IN FINISHED AREAS, TYP.
 - PROVIDE CONTINUOUS CAULKING AT ALL DUCT AND PIPE PENETRATIONS THROUGH WALLS IN ACCORDANCE WITH SPECIFICATIONS.
 - AT CHASE WALLS PROVIDE HORIZONTAL BRACING FOR SEPARATIONS LESS THAN 9" WITH MIN. 4 1/4" METAL BRACE. AT SEPARATIONS GREATER THAN 9" PROVIDE 12" WIDE GYPSUM WALL BOARD BRACE. ALL BRACES AT 32" O.C. MIN.
 - DIMENSION PLANS SHALL INDICATE PARTITION CLEAR DIMENSIONS FROM FACE OF WALLBOARD TO FACE OF WALLBOARD UNLESS NOTED OTHERWISE.

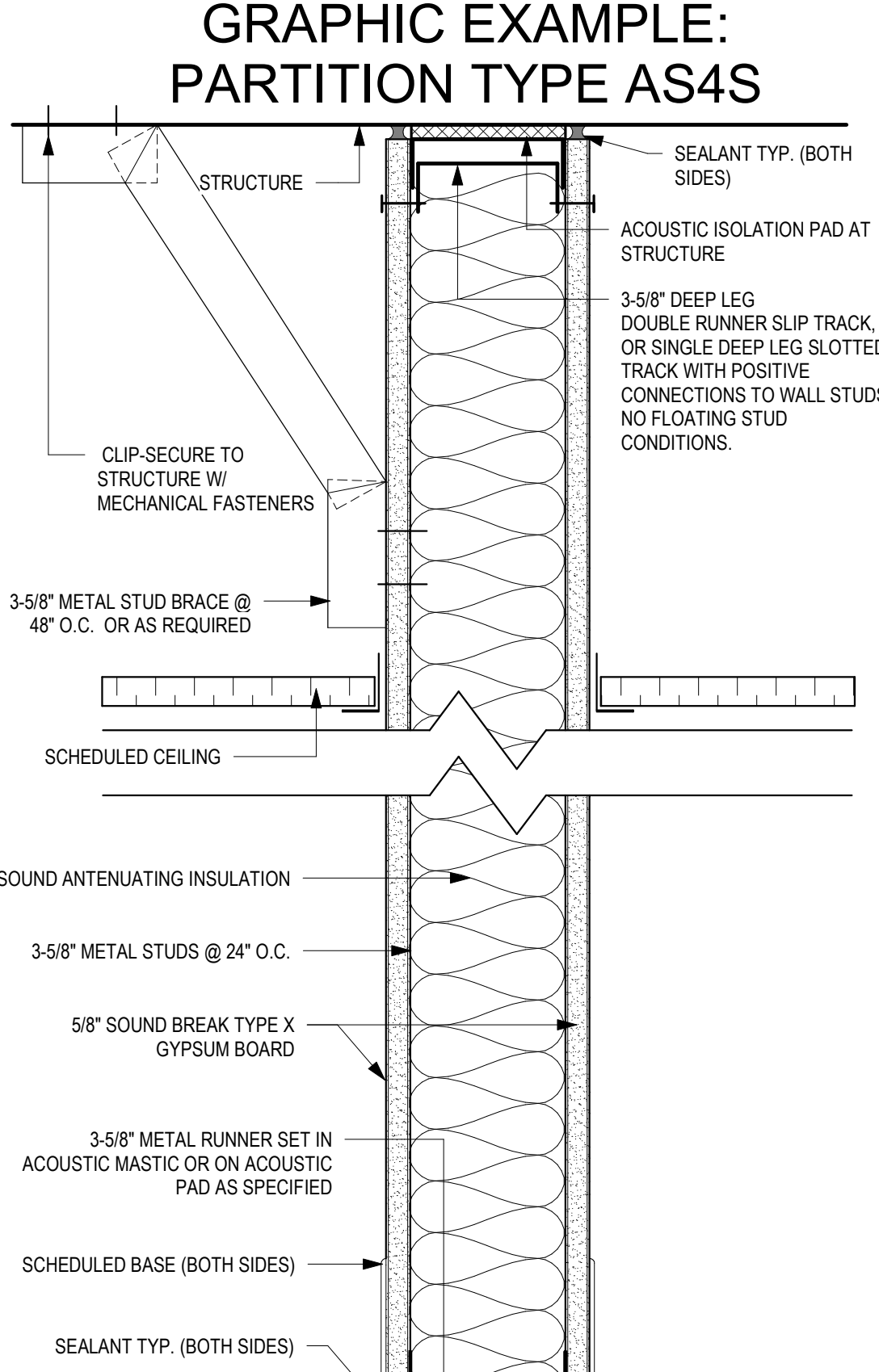


D3 SINGLE SIDED PARTITION BASE DETAIL
SCALE: 3" = 1'-0"

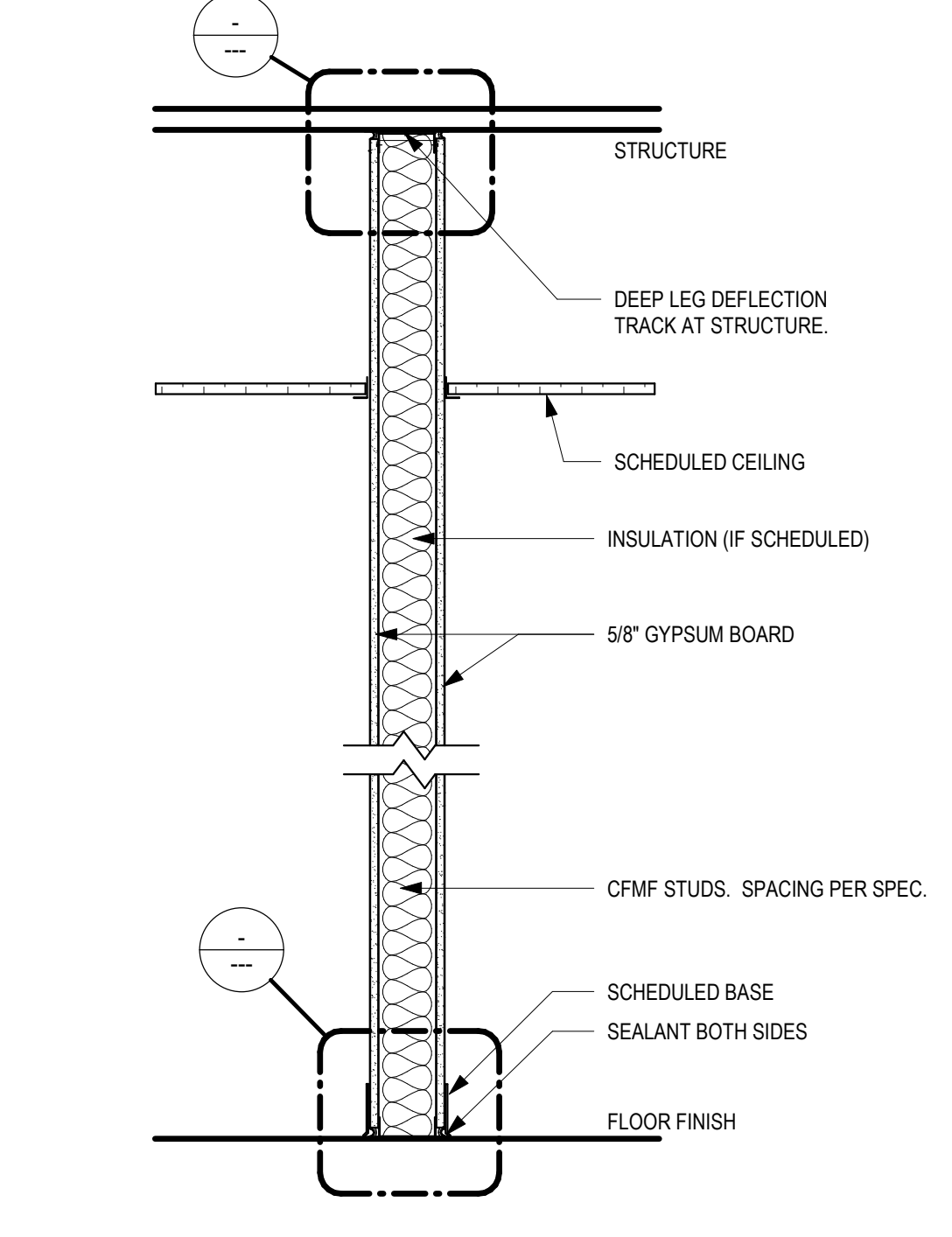


D1 PARTITION TYPE B - SINGLE SIDED
SCALE: 1" = 1'-0"

- ### PARTITION TYPE KEY CODE
- AS4A**
- FIRST CHARACTER: PARTITION TYPE - REFERENCE DIAGRAMS THIS SHEET
- A TYPICAL CFMF STUD PARTITION
 - B TYPICAL CFMF CHASE WALL (FINISH ON 1 SIDE ONLY TYP)
 - C TYPICAL CFMF DOUBLE WALL PARTITION
 - D TYPICAL CFMF SINGLE SIDED PARTITION AT EXTERIOR
 - E TYPICAL CMU WALL PARTITION
 - F TYPICAL CFMF "PONY" WALL (FINISH WRAPS TOP OF WALL)
 - G SPECIALTY FRAMED PARTITION - REFER TO DETAILS
 - H WOOD FRAMED PARTITION - DIMENSIONAL LUMBER
- SECOND CHARACTER GROUP: SPECIALTY CHARACTERISTIC (IF APPLICABLE)
- NO CHARACTER SIGNIFIES STANDARD PARTITION TYPE
 - L GWB FINISH TERMINATES 6" ABOVE CEILING - DOES NOT EXTEND TO STRUCTURE. BRACE AS REQUIRED
 - S SOUND ATTENUATING PARTITION WITH STC RATING STC RATING IS NOTED BELOW DETAIL.
 - X 1 HR FIRE RATED PARTITION ASSEMBLY WITH UL LISTING UL DESIGNATION IS NOTED BELOW DETAIL.
 - 2X 2 HR FIRE RATED PARTITION ASSEMBLY WITH UL LISTING UL DESIGNATION IS NOTED BELOW DETAIL.
 - 3X (...ETC)
- THIRD CHARACTER: STUD THICKNESS AS FOLLOWS (REFER TO PLAN):
- 0 7/8" METAL FURRING CHANNEL
 - 1 1-5/8" METAL STUD OR 1-1/2" FURRING CHANNEL
 - 2 2-1/2" METAL STUD OR FURRING CHANNEL
 - 4 3-5/8" METAL STUD OR 4" CMU
 - 6 6" METAL STUD
 - 8 8" METAL STUD OR 8" CMU
- FOURTH CHARACTER: PARTITION INSULATION SCHEDULE (REFER TO PLAN):
- I STANDARD FIBERGLASS BATTS TO FILL STUD CAVITY
 - S SPECIALTY SOUND ATTENUATING INSULATION TO FILL CAVITY
 - F SPRAY FOAM INSULATION TO FILL CAVITY
 - T THERMAL RIGID FOAM INSULATION
 - R THERMAL FIBER-GLASS INSULATION TO FILL CAVITY
 - N NO CHARACTER INDICATES NO INSULATION USED



GRAPHIC EXAMPLE: PARTITION TYPE AS4S



E1 PARTITION TYPE A
SCALE: 1" = 1'-0"

7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No. _____
C.O.H. No. _____ D.O.A. No. _____

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800 Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING

REGISTERED ARCHITECT
DANIEL ORTIZ
20004
STATE OF TEXAS
03.22.22

SHEET NAME: PARTITION SCHEDULE
SHEET No. G-010 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt
 HAS FILE:
 PLOT DATE:
 DOA DWG FILE:
 OLD DOA No.:
 PLOT DATE:



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



**HENDERSON
ROGERS**
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING

SHEET NAME: CONSTRUCTION PHASING PLAN
SHEET No. G-042 SCALE: As indicated
SHEET SIZE: 30"x42" ARCH E1

CONSTRUCTION PHASING NOTES

- PHASE TWO CONSTRUCTION SHALL BEGIN WHEN ALL OF PHASE 1 CONSTRUCTION HAS BEEN COMPLETED AND IS OPENED FOR CUSTOMER USE.
- PHASE THREE CONSTRUCTION SHALL BEGIN WHEN ALL OF PHASE 2 CONSTRUCTION HAS BEEN COMPLETED AND IS OPENED FOR CUSTOMER USE.
- COORDINATE CONSTRUCTION SCHEDULE WITH HOUSTON AIRPORT SYSTEMS AND HOBBY AIRPORT.
- TEMPORARY PARTITIONS SHALL BE INSTALLED PRIOR TO EACH PHASE OF CONSTRUCTION. RE: PLAN FOR LOCATIONS; DUST FENCE PARTITION TO BE MIN. 8' AFF. TYP.

LEGEND

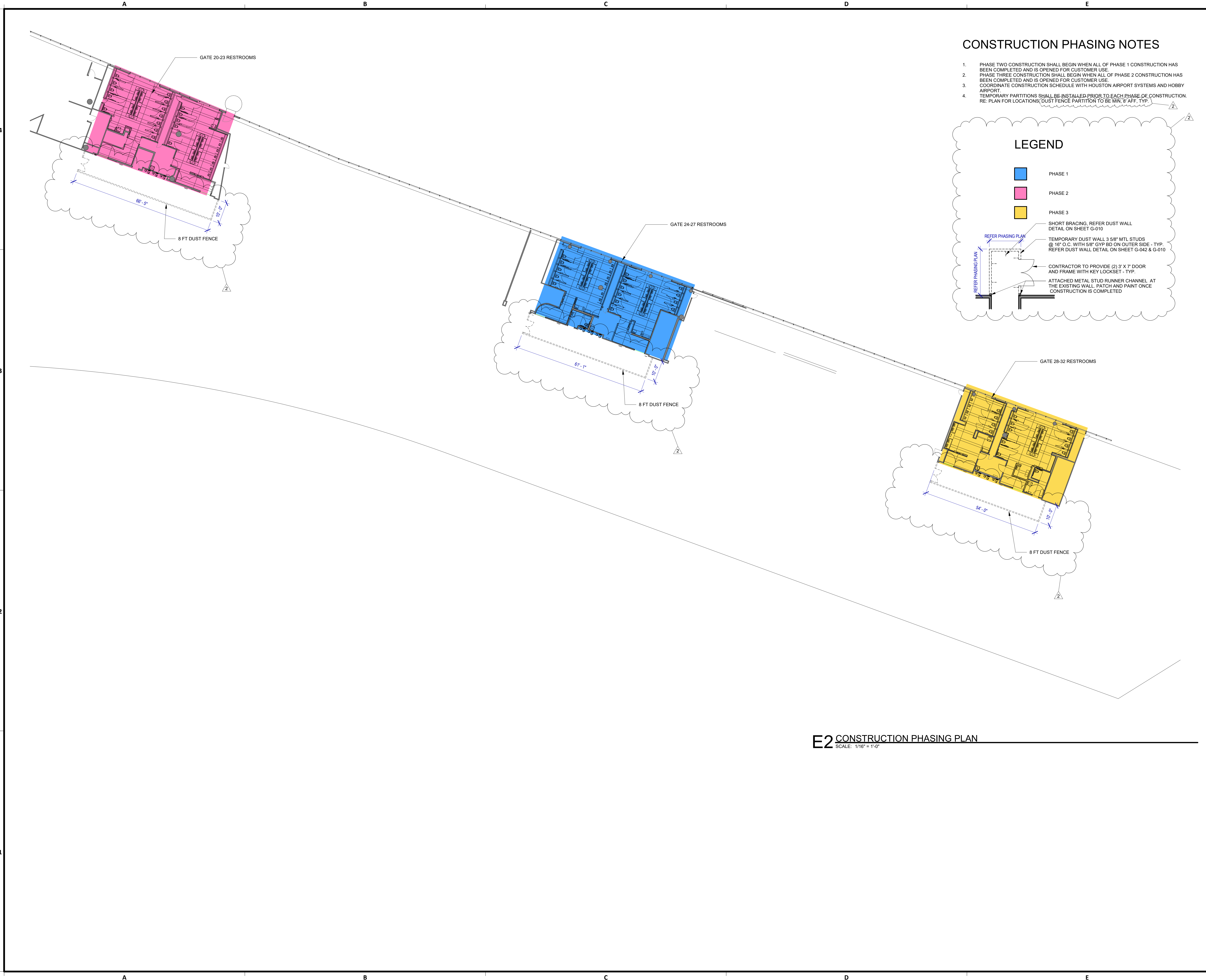
- PHASE 1 (Blue)
- PHASE 2 (Pink)
- PHASE 3 (Yellow)

SHORT BRACING, REFER DUST WALL DETAIL ON SHEET G-010

TEMPORARY DUST WALL 3 5/8" MTL STUDS @ 16" O.C. WITH 5/8" GYP BD ON OUTER SIDE - TYP. REFER DUST WALL DETAIL ON SHEET G-042 & G-010

CONTRACTOR TO PROVIDE (2) 3' X 7' DOOR AND FRAME WITH KEY LOCKSET - TYP.

ATTACHED METAL STUD RUNNER CHANNEL AT THE EXISTING WALL. PATCH AND PAINT ONCE CONSTRUCTION IS COMPLETED



E2 CONSTRUCTION PHASING PLAN
SCALE: 1/16" = 1'-0"

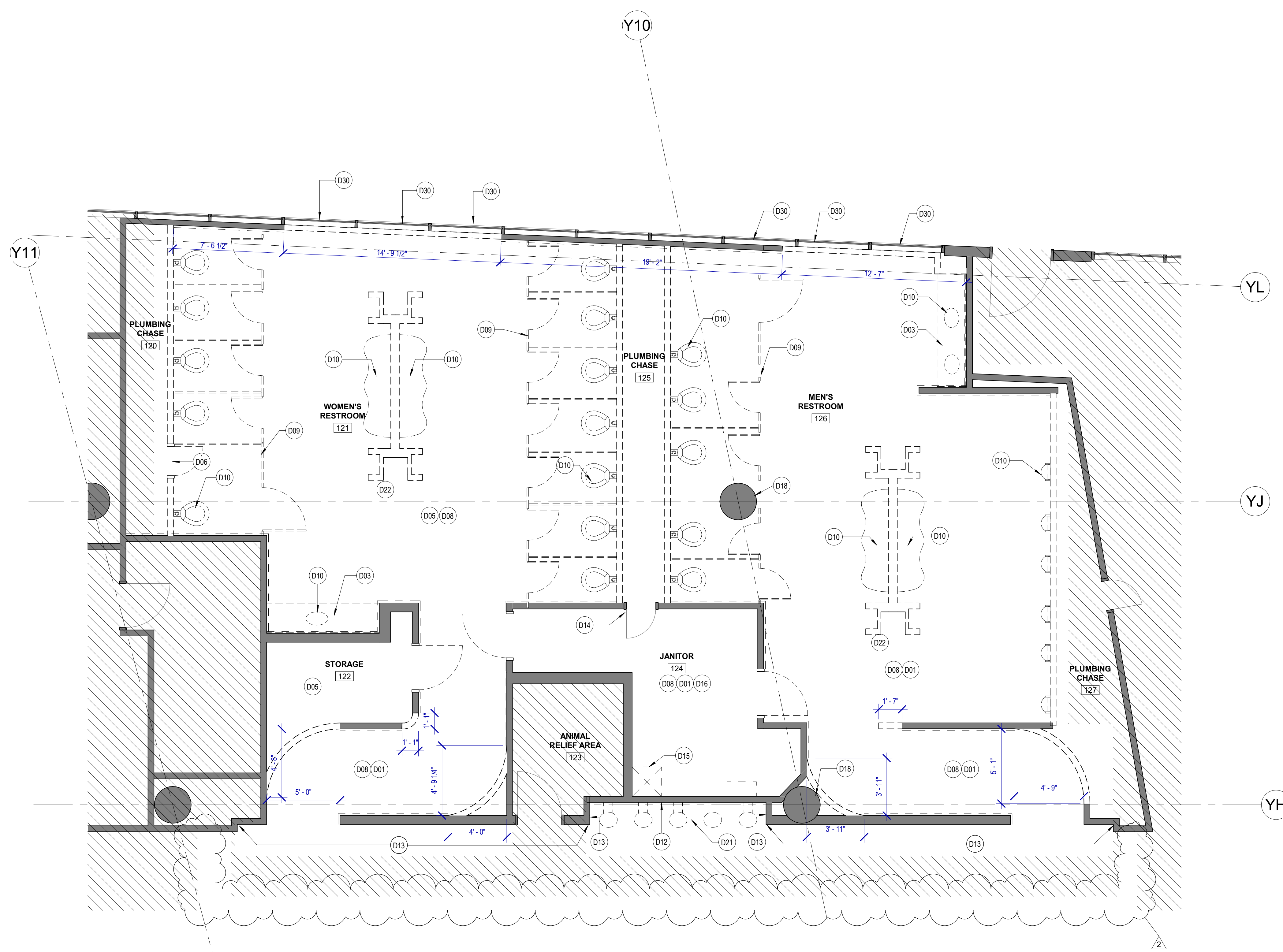
FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt
 HAS FILE:
 PLOT DATE:
 DOA DWG FILE:
 OLD DOA No.:
 PLOT DATE:

FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt

HAS FILE:

PLOT DATE: 03/22/2022 10:00:00 AM
 DOA DWG FILE: AD-101
 OLD DOA No.:
 PLOT DATE:

A1 DEMOLITION PLAN - GATE 20-23 RESTROOMS
 SCALE: 1/4" = 1'-0"



DEMOLITION GENERAL NOTES

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE REPRESENTED IN THESE PLANS AND THEREFORE THE INTENT OF THE DEMOLITION PLANS ARE TO INDICATE TYPICAL WORK REQUIRED. GENERAL CONTRACTOR TO DETERMINE EXACT QUANTITIES IN THE FIELD.
- EXISTING SURFACE MOUNTED CONDUIT WHERE DEVICES ARE SHOWN TO REMAIN, SHALL BE CONCEALED BEHIND NEW SCHEDULES PARTITION. EXISTING SURFACE MOUNTED POWER OUTLETS, DATA, AND THERMOSTATS, NOTED FOR REINSTALLATION SHALL BE CONVERTED TO RECESSED WITHIN NEW WALL AND PROVIDED WITH A NEW FACE PLATE.
- ALL DOOR FRAMES AT EXISTING AND NEW WALLS TO RECEIVE DOUBLE STUDS AT JAMBS & BOX HEADERS AT HEAD CONDITIONS. VERIFY ROUGH OPENINGS REQUIRED. OWNER HAS FIRST RIGHT OF SALVAGE.
- ALL EXISTING FINISHES TO BE REMOVED AND REMAINING SURFACES TO BE REPAIRED AND PREPPED FOR NEW FINISHES.
- ALL EXISTING EQUIPMENT HOSTED IN ACOUSTICAL CEILING TILE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. UNO
- ALL CEILING MOUNTED FIRE ALARM HORN & STROBE TO BE PROTECTED DURING CONSTRUCTION.
- ALL IT EQUIPMENT, SMART RESTROOM TECHNOLOGY SHALL BE REMOVED, PROTECTED AND REINSTALLED BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT LIMITED TO PEOPLE COUNTER (CAMERAS), IPAD'S, WIFI DEVICES, SPEAKERS, CABLING, COMMUNICATION CABINET ETC. ALL DEVICES SHALL BE REINSTALLED PER HAS IT STANDARDS AND SPECIFICATION BY CONTRACTOR.
- CONTRACTOR TO SUBMIT TEMPORARY PROTECTION LAYOUT FOR APPROVAL AND BEFORE STARTING INSTALLING WORK.
- CONTRACTOR SHALL REVIEW AND COORDINATE MEP DEMO AND NEW WORK DRAWINGS FOR ALL THE PLUMBING, ELECTRICAL, LIGHTING FIXTURES, HVAC AND DATA TO REMAIN AND/OR BEING MODIFIED OR NEW WORK TO BE PROVIDED.
- EXISTING TRESPA PANELS ARE DESIGNED TO BE REMOVABLE. CONTRACTOR TO CAREFULLY REMOVE EACH PANEL AND ATTACHMENT SYSTEM TO AVOID DAMAGE TO EXISTING GYP BOARD TO REMAIN AND STUD FRAMING OR AS REQUIRED PER DRAWING.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D01	REMOVE ALL EXISTING FINISHES AND GYP BD. FROM METAL STUDS
D03	REMOVE EXISTING COUNTER TOP
D05	PROTECT EXISTING WALLS TO REMAIN
D06	REMOVE EXISTING HM DOOR & FRAME. SALVAGE FOR REINSTALLATION.
D08	REMOVE EXISTING FLOOR TILE & PREP AS REQUIRED FOR INSTALLATION OF NEW TILE
D09	REMOVE EXISTING TOILET PARTITIONS
D10	REMOVE EXISTING PLUMBING FIXTURES & STEEL SUPPORTS. PLUMBING LINES TO BE PREPARED/RELOCATED AS REQUIRED FOR NEW WORK. TYP.
D12	REMOVE EXISTING GRANITE FINISH, S.S. BASE AND GYP BD. REFRAME WALL AS REQUIRED FOR NEW DRINKING FOUNTAINS.
D13	REMOVE EXISTING SLATE FINISH, S.S. BASE AND GYP BD.
D14	EXISTING HM DOOR & FRAME TO REMAIN.
D15	REMOVE EXISTING MOP SINK
D16	REMOVE AND SALVAGE ALL JANITOR CLOSET ACCESSORIES FOR REINSTALLATION.
D18	REMOVE EXISTING CERAMIC TILE FINISH & PREP COLUMN FOR NEW FINISH.
D21	REMOVE EXISTING DRINKING FOUNTAINS
D22	EXISTING IPAD. REMOVE, PROTECT AND SALVAGE FOR RELOCATION.
D30	REMOVE EXISTING SPANDREL GLAZING FROM CURTAIN WALL

DEMOLITION LEGEND

- DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- NOT IN SCOPE
- REFER TO NOTE D01
- LIGHT FIXTURES TO BE REMOVED. REFER MEP DWGS FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.



7800 Airport Blvd
 Houston, TX 77061

**HOU RESTROOM RENOVATIONS
 PHASE 2**

C.I.P. No. PN209A A.I.P. No.
 C.O.H. No. D.O.A. No.

RDLR Architects
 ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
 Houston, TX 77003 www.rdlr.com



**HENDERSON
 ROGERS**
 structural engineers

2603 Augusta, Suite 800
 Houston, Texas 77057
 713.430.5800 713.430.5888 fax
 www.hendersonrogers.com

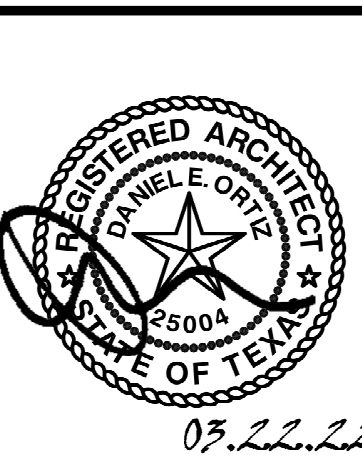
DESIGNER PROJECT No.: 1429.05
 PROJECT STATUS: IFB

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
 DRAWN BY: HECTOR BERRIOS
 CHECKED BY: DANIEL ORTIZ
 ISSUE DATE: 03.22.2022
 APPROVED BY: DANIEL ORTIZ
 APPROVAL DATE: 03.22.2022

DIRECTOR
 of
 HOUSTON AIRPORT SYSTEM



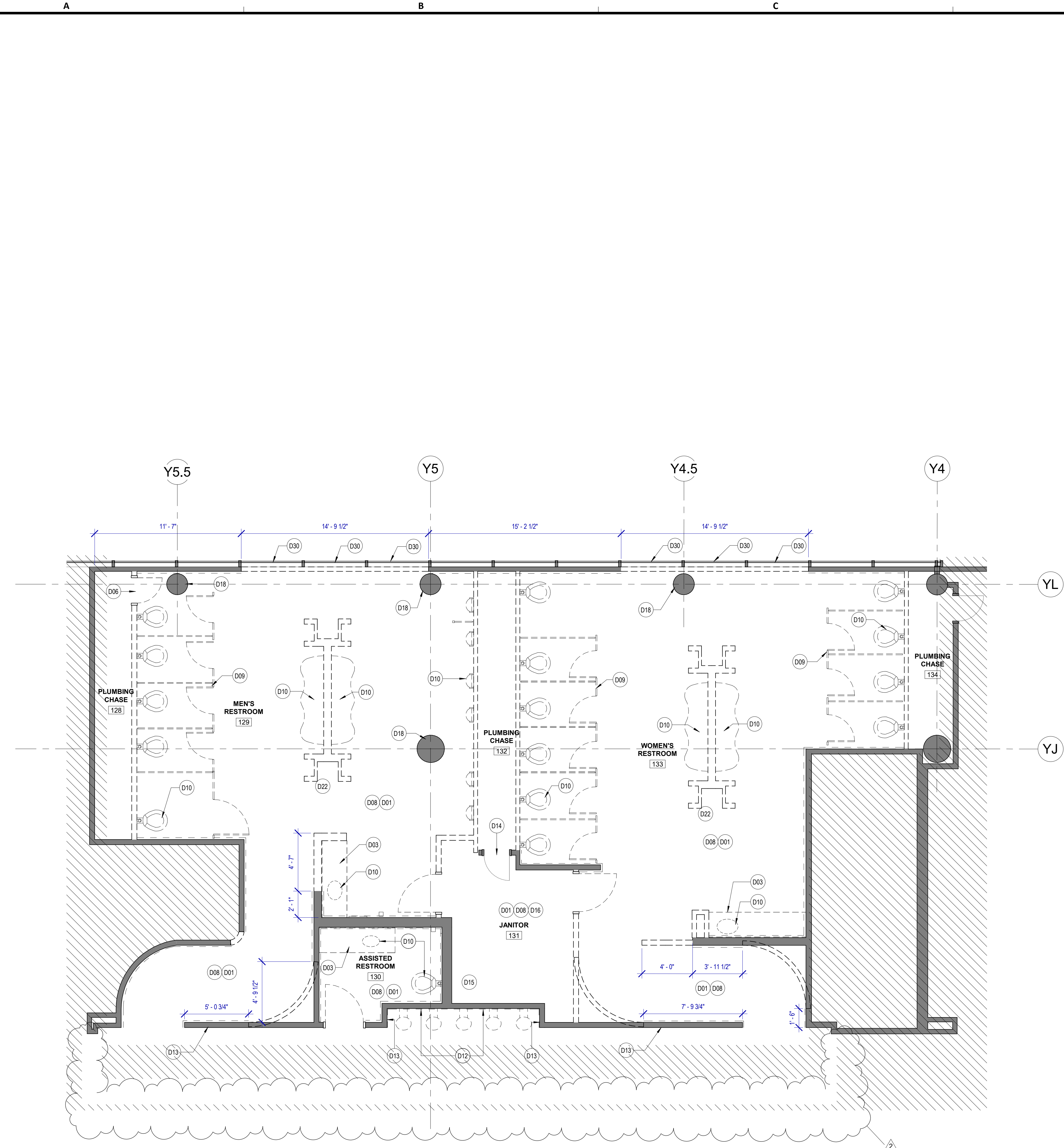
SHEET NAME: DEMOLITION PLAN - GATE 20-23 RESTROOMS
 SHEET No. AD-101 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No.:



A1 DEMOLITION PLAN - GATE 24-27 RESTROOMS
SCALE: 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE REPRESENTED IN THESE PLANS AND THEREFORE THE INTENT OF THE DEMOLITION PLANS ARE TO INDICATE TYPICAL WORK REQUIRED. GENERAL CONTRACTOR TO DETERMINE EXACT QUANTITIES IN THE FIELD.
- EXISTING SURFACE MOUNTED CONDUIT WHERE DEVICES ARE SHOWN TO REMAIN, SHALL BE CONCEALED BEHIND NEW SCHEDULES PARTITION. EXISTING SURFACE MOUNTED POWER OUTLETS, DATA, AND THERMOSTATS, NOTED FOR REINSTALLATION, SHALL BE CONVERTED TO RECESSED WITHIN NEW WALL AND PROVIDED WITH A NEW FACE PLATE.
- ALL DOOR FRAMES AT EXISTING AND NEW WALLS TO RECEIVE DOUBLE STUDS AT JAMBS & BOX HEADERS AT HEAD CONDITIONS. VERIFY ROUGH OPENINGS REQUIRED. OWNER HAS FIRST RIGHT OF SALVAGE.
- ALL EXISTING FINISHES TO BE REMOVED AND REMAINING SURFACES TO BE REPAIRED AND PREPPED FOR NEW FINISHES.
- ALL EXISTING EQUIPMENT HOSTED IN ACOUSTICAL CEILING TILE TO BE REMOVED AND SALVAGED FOR REINSTALLATION. U.N.O
- ALL CEILING MOUNTED FIRE ALARM HORN & STROBE TO BE PROTECTED DURING CONSTRUCTION.
- ALL IT EQUIPMENT, SMART RESTROOM TECHNOLOGY SHALL BE REMOVED, PROTECTED AND REINSTALLED BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT LIMITED TO PEOPLE COUNTER (CAMERAS), IPADS, WIFI DEVICES, SPEAKERS, CABLING, COMMUNICATION CABINET ETC. ALL DEVICES SHALL BE REINSTALLED PER HAS IT STANDARDS AND SPECIFICATION BY CONTRACTOR.
- CONTRACTOR TO SUBMIT TEMPORARY PROTECTION LAYOUT FOR APPROVAL AND BEFORE STARTING INSTALLING WORK.
- CONTRACTOR SHALL REVIEW AND COORDINATE MEP DEMO AND NEW WORK DRAWINGS FOR ALL THE PLUMBING, ELECTRICAL, LIGHTING FIXTURES, HVAC AND DATA TO REMAIN AND/OR BEING MODIFIED OR NEW WORK TO BE PROVIDED.
- EXISTING TRESPA PANELS ARE DESIGNED TO BE REMOVABLE. CONTRACTOR TO CAREFULLY REMOVE EACH PANEL AND ATTACHMENT SYSTEM TO AVOID DAMAGE TO EXISTING GYP BOARD TO REMAIN AND STUD FRAMING OR AS REQUIRED PER DRAWING.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D01	REMOVE ALL EXISTING FINISHES AND GYP BD. FROM METAL STUDS
D03	REMOVE EXISTING COUNTER TOP.
D06	REMOVE EXISTING HM DOOR & FRAME. SALVAGE FOR REINSTALLATION.
D08	REMOVE EXISTING FLOOR TILE & PREP AS REQUIRED FOR INSTALLATION OF NEW TILE.
D09	REMOVE EXISTING TOILET PARTITIONS.
D10	REMOVE EXISTING PLUMBING FIXTURES & STEEL SUPPORTS. PLUMBING LINES TO BE PREPARED/RELOCATED AS REQUIRED FOR NEW WORK. TYP.
D12	REMOVE EXISTING GRANITE FINISH, S.S. BASE AND GYP BD. REFRAME WALL AS REQUIRED FOR NEW DRINKING FOUNTAINS
D13	REMOVE EXISTING SLATE FINISH, S.S. BASE AND GYP BD.
D14	EXISTING HM DOOR & FRAME TO REMAIN.
D15	REMOVE EXISTING MOP SINK.
D16	REMOVE AND SALVAGE ALL JANITOR CLOSET ACCESSORIES FOR REINSTALLATION.
D18	REMOVE EXISTING CERAMIC TILE FINISH & PREP COLUMN FOR NEW FINISH.
D22	EXISTING IPAD. REMOVE, PROTECT AND SALVAGE FOR RELOCATION.
D30	REMOVE EXISTING SPANDREL GLAZING FROM CURTAIN WALL.

DEMOLITION LEGEND

- DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- NOT IN SCOPE
- REFER TO NOTE D01
- LIGHT FIXTURES TO BE REMOVED. REFER MEP DWGS FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



**HENDERSON
ROGERS**
structural engineers

2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

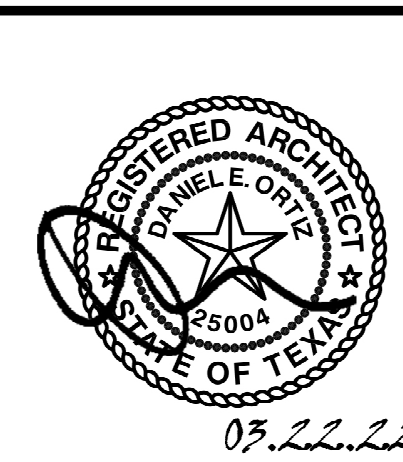
REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

IFB
ISSUED FOR BIDDING



SHEET NAME: DEMOLITION PLAN - GATE 24-27 RESTROOMS
SHEET No. AD-102 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

A

B

C

D

E

DEMOLITION GENERAL NOTES

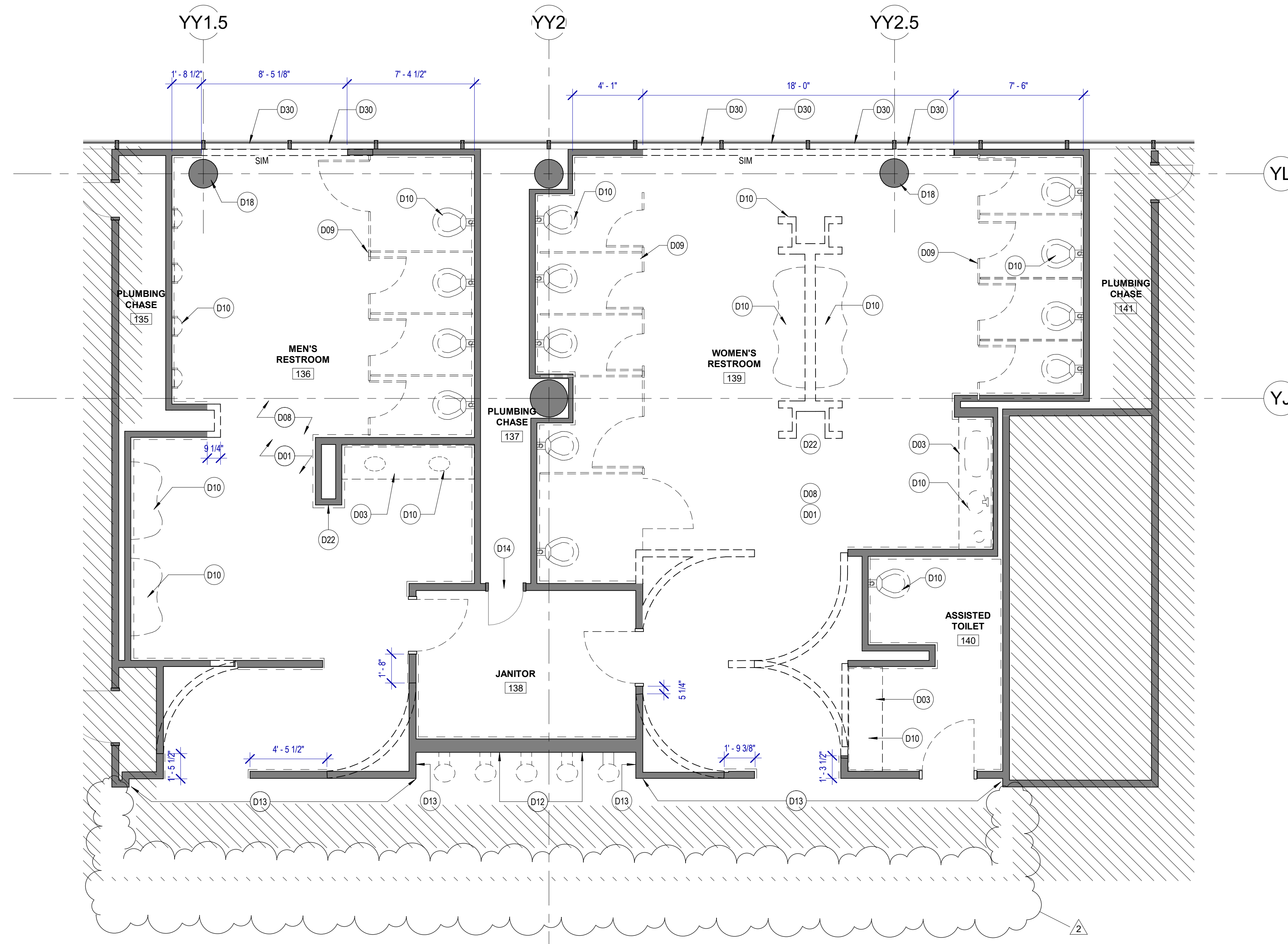
- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE REPRESENTED IN THESE PLANS AND THEREFORE THE INTENT OF THE DEMOLITION PLANS ARE TO INDICATE TYPICAL WORK REQUIRED. GENERAL CONTRACTOR TO DETERMINE EXACT QUANTITIES IN THE FIELD.
- EXISTING SURFACE MOUNTED CONDUIT WHERE DEVICES ARE SHOWN TO REMAIN, SHALL BE CONCEALED BEHIND NEW SCHEDULES PARTITION. EXISTING SURFACE MOUNTED POWER OUTLETS, DATA, AND THERMOSTATS, NOTED FOR REINSTALLATION, SHALL BE CONVERTED TO RECESSED WITHIN NEW WALL AND PROVIDED WITH A NEW FACE PLATE.
- ALL DOOR FRAMES AT EXISTING AND NEW WALLS TO RECEIVE DOUBLE STUDS AT JAMBS & BOX HEADERS AT HEAD CONDITIONS. VERIFY ROUGH OPENINGS REQUIRED. OWNER HAS FIRST RIGHT OF SALVAGE.
- ALL EXISTING FINISHES TO BE REMOVED AND REMAINING SURFACES TO BE REPAIRED AND PREPPED FOR NEW FINISHES.
- ALL EXISTING EQUIPMENT HOSTED IN ACOUSTICAL CEILING TILE TO BE REMOVED AND SALVAGED FOR REINSTALLATION, U.N.O.
- ALL CEILING MOUNTED FIRE ALARM HORN & STROBE TO BE PROTECTED DURING CONSTRUCTION.
- ALL IT EQUIPMENT, SMART RESTROOM TECHNOLOGY SHALL BE REMOVED, PROTECTED AND REINSTALLED BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT LIMITED TO PEOPLE COUNTER (CAMERAS), IPADS, WIFI DEVICES, SPEAKERS, CABLING, COMMUNICATION CABINET ETC. ALL DEVICES SHALL BE REINSTALLED PER HAS IT STANDARDS AND SPECIFICATION BY CONTRACTOR.
- CONTRACTOR TO SUBMIT TEMPORARY PROTECTION LAYOUT FOR APPROVAL AND BEFORE STARTING INSTALLING WORK.
- CONTRACTOR SHALL REVIEW AND COORDINATE MEP DEMO AND NEW WORK DRAWINGS FOR ALL THE PLUMBING, ELECTRICAL, LIGHTING FIXTURES, HVAC AND DATA TO REMAIN AND/OR BEING MODIFIED OR NEW WORK TO BE PROVIDED.
- EXISTING TRESPA PANELS ARE DESIGNED TO BE REMOVABLE. CONTRACTOR TO CAREFULLY REMOVE EACH PANEL AND ATTACHMENT SYSTEM TO AVOID DAMAGE TO EXISTING GYP BOARD TO REMAIN AND STUD FRAMING OR AS REQUIRED PER DRAWING.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D01	REMOVE ALL EXISTING FINISHES AND GYP BD. FROM METAL STUDS
D03	REMOVE EXISTING COUNTER TOP
D08	REMOVE EXISTING FLOOR TILE & PREP AS REQUIRED FOR INSTALLATION OF NEW TILE
D09	REMOVE EXISTING TOILET PARTITIONS
D10	REMOVE EXISTING PLUMBING FIXTURES & STEEL SUPPORTS. PLUMBING LINES TO BE PREPARED/RELOCATED AS REQUIRED FOR NEW WORK, TYP.
D12	REMOVE EXISTING GRANITE FINISH, S.S. BASE AND GYP BD. REFRAME WALL AS REQUIRED FOR NEW DRINKING FOUNTAINS
D13	REMOVE EXISTING SLATE FINISH, S.S. BASE AND GYP BD.
D14	EXISTING HM DOOR & FRAME TO REMAIN.
D18	REMOVE EXISTING CERAMIC TILE FINISH & PREP COLUMN FOR NEW FINISH.
D22	EXISTING IPAD. REMOVE, PROTECT AND SALVAGE FOR RELOCATION.
D30	REMOVE EXISTING SPANDREL GLAZING FROM CURTAIN WALL.

DEMOLITION LEGEND

- DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- NOT IN SCOPE
- REFER TO NOTE D01
- LIGHT FIXTURES TO BE REMOVED, REFER MEP DWGS FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.



A1 DEMOLITION PLAN - GATE 28-32 RESTROOMS
SCALE: 1/4" = 1'-0"



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects

ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



**HENDERSON
ROGERS**
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

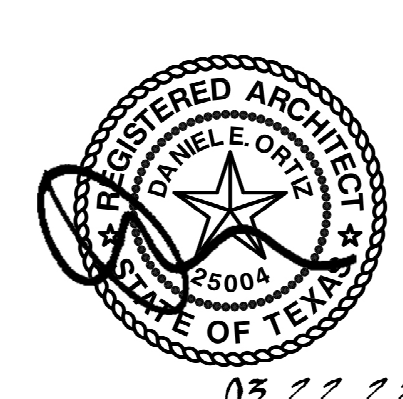
No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category

IFB
ISSUED FOR BIDDING



SHEET NAME: DEMOLITION PLAN - GATE 28-32 RESTROOMS
SHEET No. AD-103 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/1429.06 Hobby_Airport_Restroom_Reno_Central.rvt

HAS FILE:

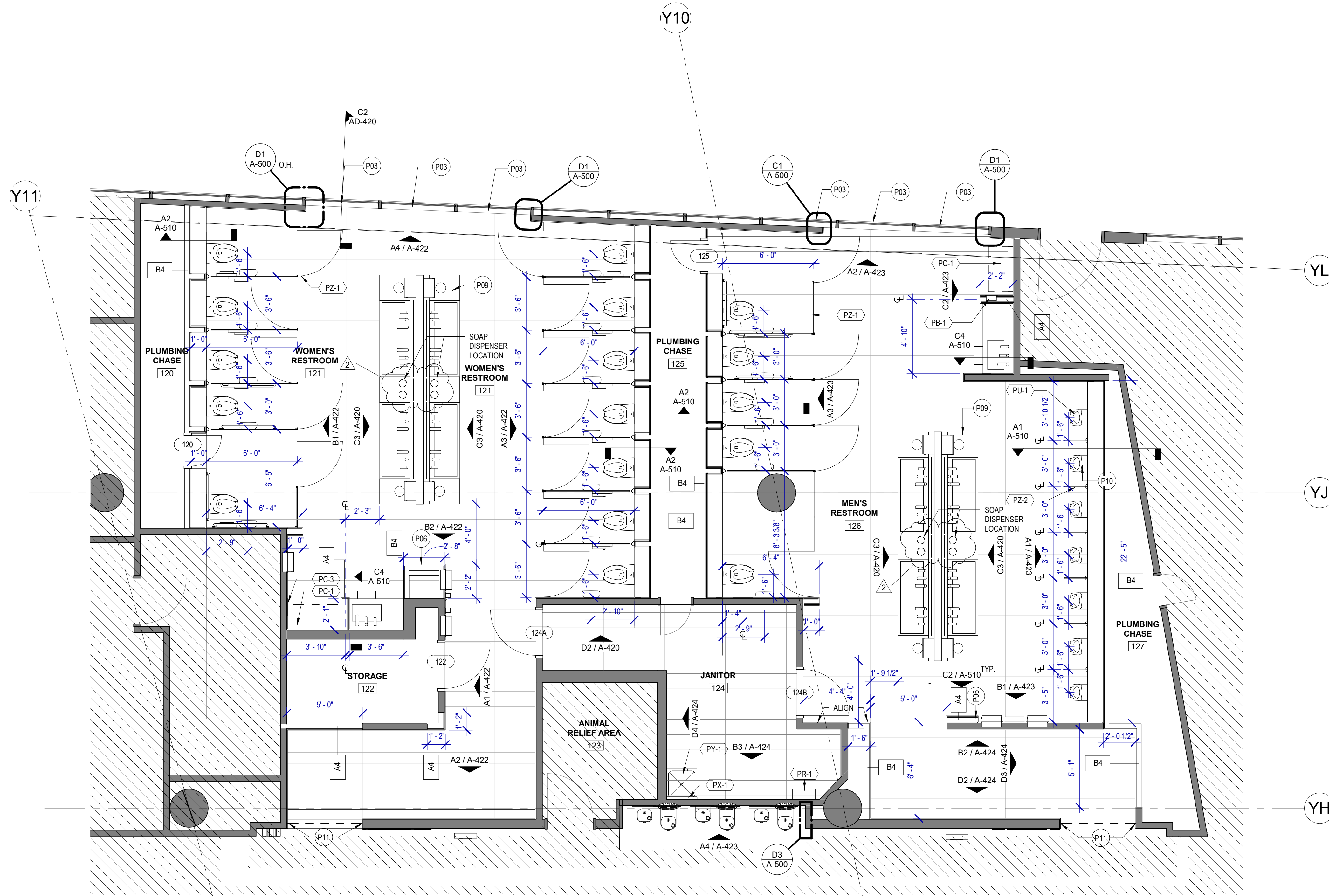
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

A1 FLOOR PLAN - GATE 20-23 RESTROOMS
SCALE: 1/4" = 1'-0"



FLOOR PLAN GENERAL NOTES

- REFER TO SHEET G-002 FOR KEY TO SYMBOLS LEGEND AND ABBREVIATIONS. REFER TO SHEET G-003 FOR GENERAL NOTES. REFER TO G-031 FOR PARTITION TYPES & FIRESAFING DETAILS.
- ALL LOCATIONS OF ELECTRICAL DEVICES SHALL BE VERIFIED IN THE FIELD WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
- EXISTING HM FRAME TO BE PAINTED.

KEYNOTE LEGEND - PLANS

KEY VALUE	KEYNOTE TEXT
P03	INFILL EXTERIOR CURTAIN WALL WITH NEW GLAZING PANEL RE: ELEVATIONS
P06	CUSTOMER SERVICE IPAD DOCKING STATION. RE: C2/A-420 FOR TYPICAL ELEVATION.
P09	NEW SINK ISLANDS TO BE CENTERED OVER EXISTING PLUMBING
P10	URINALS TO BE CENTERED IN WALL PANEL PATTERN. TYP. RE: ELEVATIONS. RELOCATE PLUMBING LINES AS REQ'D.
P11	RECESSED WALL MOUNTED BELT STANCHION AND CLOSURE LATCH

TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PI-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE. 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP 'N WASH SNW-SS 975B
- PX-1 BOBRICK B-223

PLUMBING FIXTURES

- PL-1 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PL-2 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PT-1 TOTO WALL MOUNTED TOILET CT708EVG
- PU-1 TOTO WALL MOUNTED URINAL UT104EV
- PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
- PY-1 ZURN MOP SINK 1996-24



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



**HENDERSON
ROGERS**
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

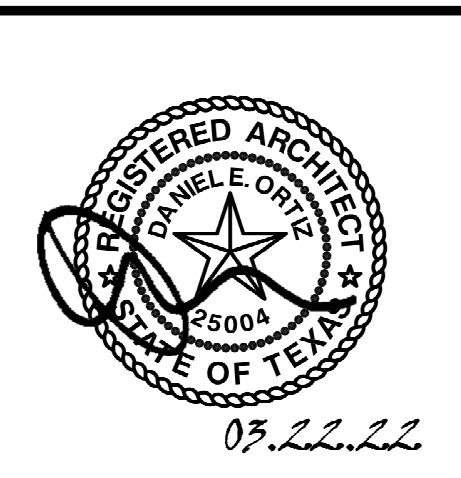
DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

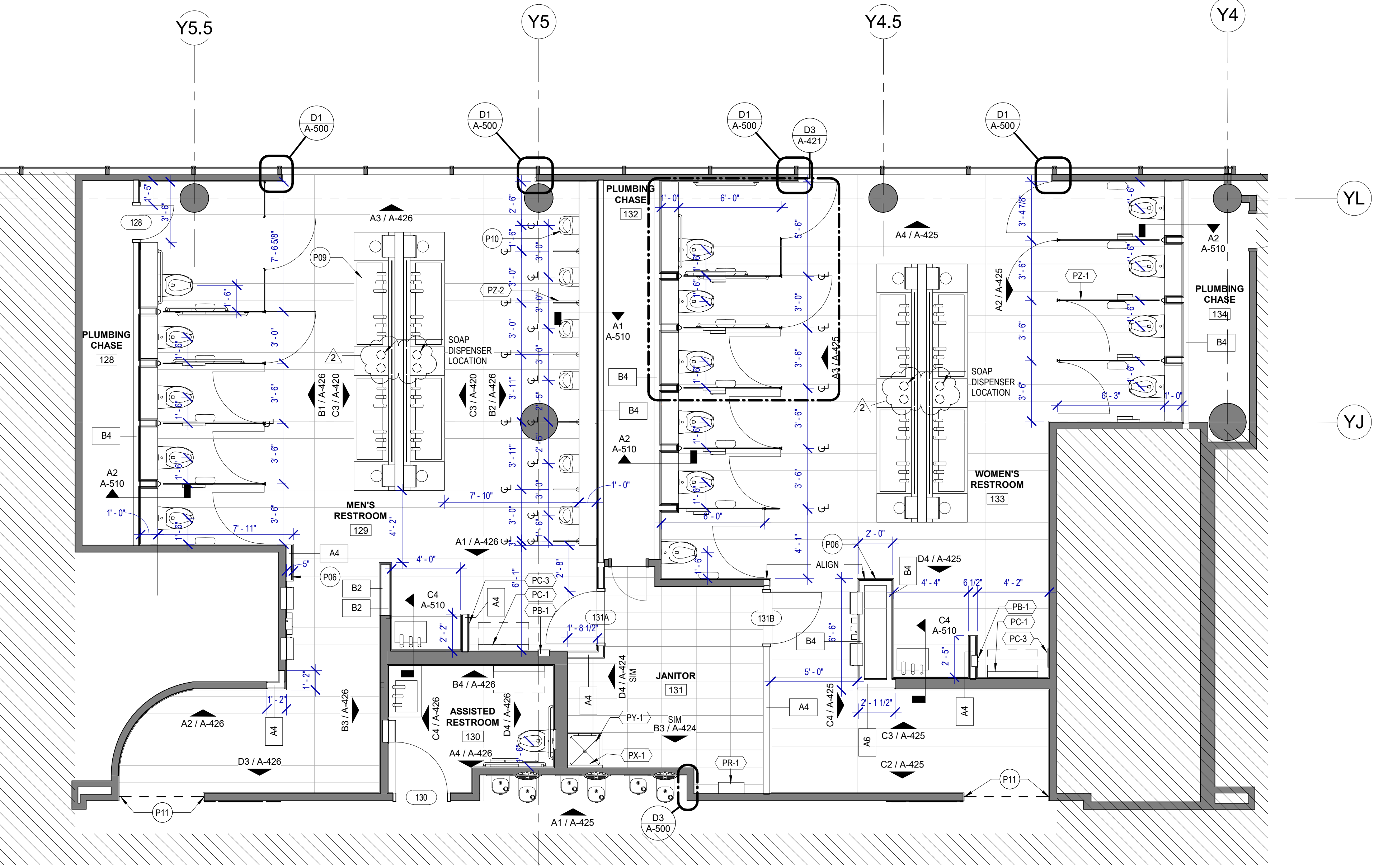


SHEET NAME:
FLOOR PLAN - GATE 20-23 RESTROOMS

SHEET No. A-101 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

A B C D E



A1 FLOOR PLAN - GATE 24-27 RESTROOMS
SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- REFER TO SHEET G-002 FOR KEY TO SYMBOLS LEGEND AND ABBREVIATIONS. REFER TO SHEET G-003 FOR GENERAL NOTES. REFER TO G-031 FOR PARTITION TYPES & FIRESAFING DETAILS.
- ALL LOCATIONS OF ELECTRICAL DEVICES SHALL BE VERIFIED IN THE FIELD WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
- EXISTING HM FRAME TO BE PAINTED.

KEYNOTE LEGEND - PLANS

KEY VALUE	KEYNOTE TEXT
P06	CUSTOMER SERVICE IPAD DOCKING STATION. RE: C2/A-420 FOR TYPICAL ELEVATION.
P09	NEW SINK ISLANDS TO BE CENTERED OVER EXISTING PLUMBING.
P10	URINALS TO BE CENTERED IN WALL PANEL PATTERN. TYP. RE: ELEVATIONS. RELOCATE PLUMBING LINES AS REQ'D.
P11	RECESSED WALL MOUNTED BELT STANCHION AND CLOSURE LATCH

TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2** TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1** TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSL.R.030.CS.H
- PF-2 THE SPLASH LAB RIBBON TSL.R.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PI-1** TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSL.R.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE. 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP 'N WASH SNW-SS 975B
- PX-1 BOBRICK B-223

PLUMBING FIXTURES

- PL-1 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PL-2 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PT-1 TOTO WALL MOUNTED TOILET CT708EVG
- PJ-1 TOTO WALL MOUNTED URINAL UT104EV
- PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
- PY-1 ZURN MOP SINK 1996-24



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No.	PN209A	A.I.P. No.	
C.O.H. No.		D.O.A. No.	

RDLR Architects

ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104
Houston, TX 77003

713.868.3121
www.rdlr.com



HENDERSON ROGERS

structural engineers

2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

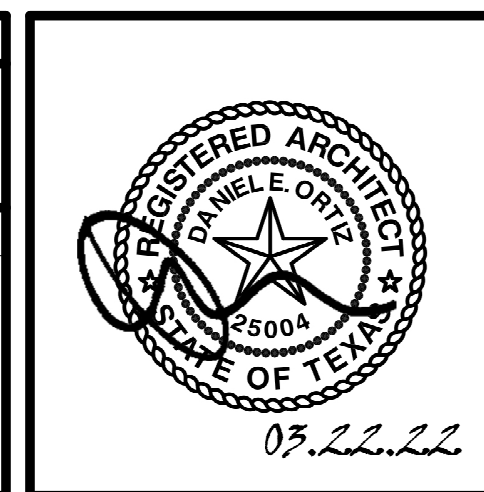
REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
 DRAWN BY: HECTOR BERRIOS
 CHECKED BY: DANIEL ORTIZ
 ISSUE DATE: 03.22.2022
 APPROVED BY: DANIEL ORTIZ
 APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING



SHEET NAME:
FLOOR PLANS - GATE 24-27 RESTROOMS
SHEET No. A-102 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

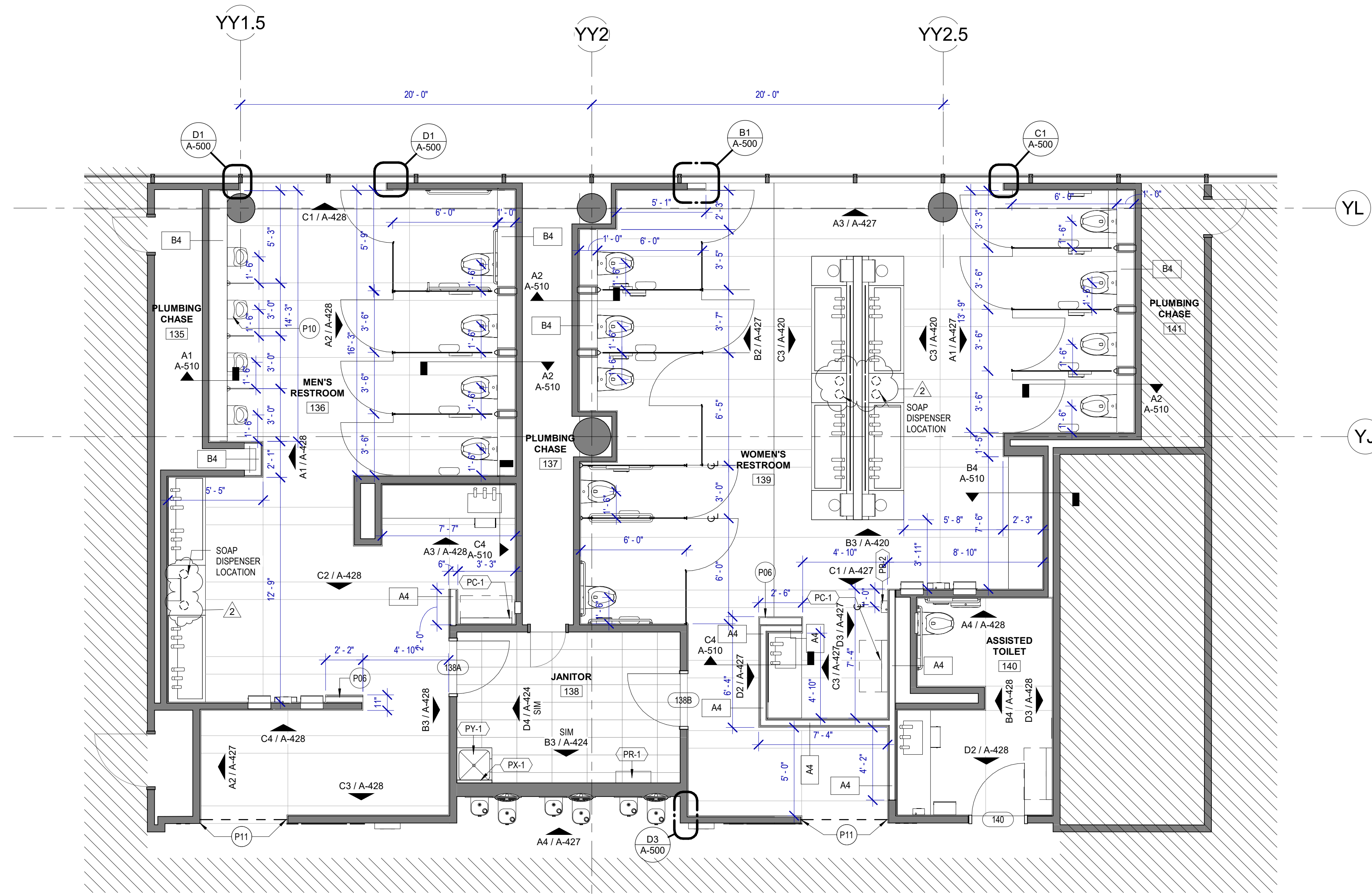
A

B

C

D

E



A1 FLOOR PLAN - GATE 28-32 RESTROOMS
SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- REFER TO SHEET G-002 FOR KEY TO SYMBOLS LEGEND AND ABBREVIATIONS. REFER TO SHEET G-003 FOR GENERAL NOTES. REFER TO G-031 FOR PARTITION TYPES & FIRE SAFING DETAILS.
- ALL LOCATIONS OF ELECTRICAL DEVICES SHALL BE VERIFIED IN THE FIELD WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
- EXISTING HM FRAME TO BE PAINTED.

KEYNOTE LEGEND - PLANS

KEY VALUE	KEYNOTE TEXT
P06	CUSTOMER SERVICE IPAD DOCKING STATION. RE: C2/A-420 FOR TYPICAL ELEVATION.
P10	URINALS TO BE CENTERED IN WALL PANEL PATTERN, TYP. RE: ELEVATIONS. RELOCATE PLUMBING LINES AS REQ'D.
P11	RECESSED WALL MOUNTED BELT STANCHION AND CLOSURE LATCH

TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON TSLR.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PH-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE. 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
- FZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- FZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP N WASH SMW-SS 975B
- PX-1 BOBRICK B-223

PLUMBING FIXTURES

- PL-1 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PL-2 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PT-1 TOTO WALL MOUNTED TOILET C7708EVG
- PU-1 TOTO WALL MOUNTED URINAL UT104EV
- PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
- PY-1 ZURN MOP SINK 1996-24



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



**HENDERSON
ROGERS**
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

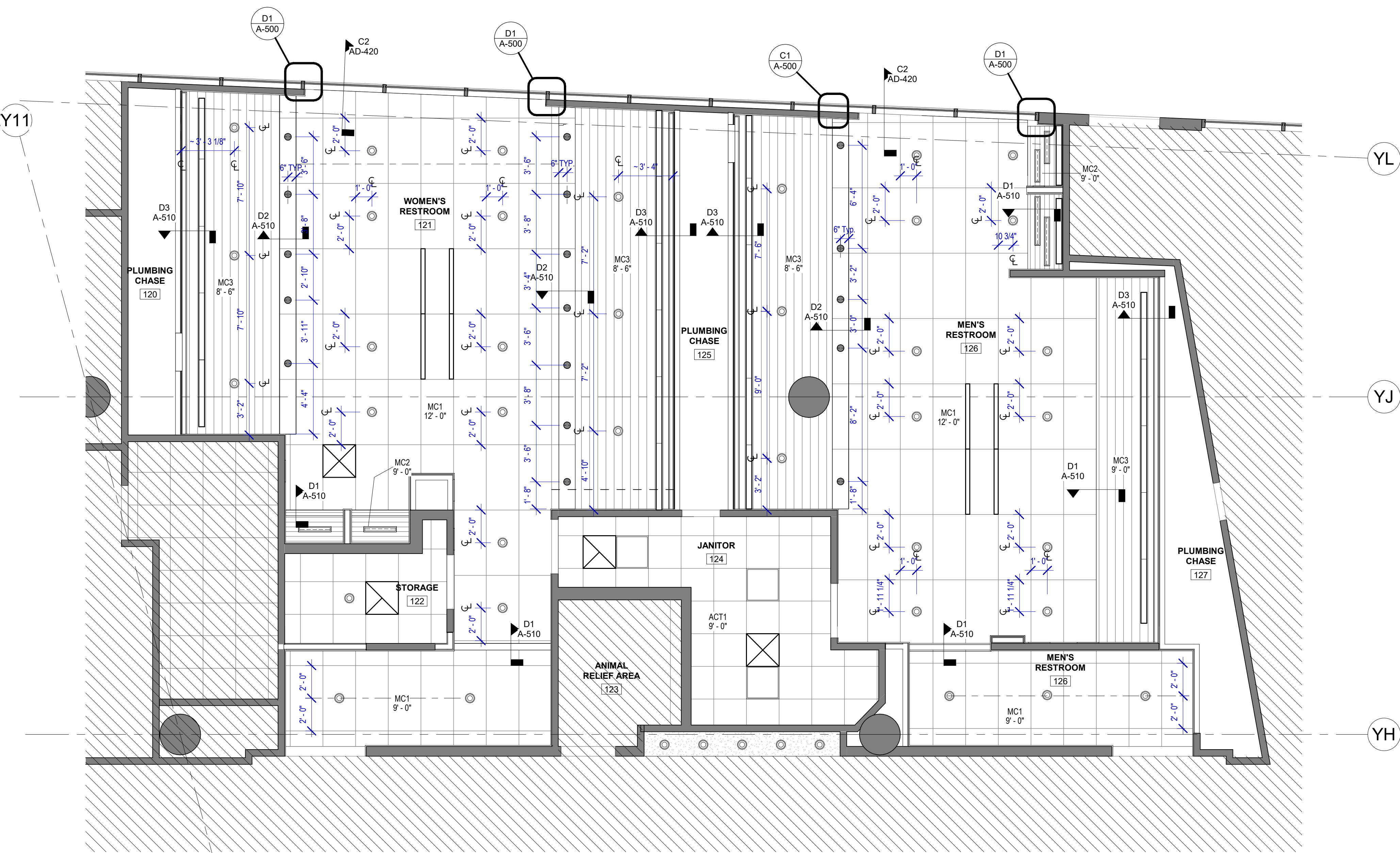
DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING

SHEET NAME:
FLOOR PLAN - GATE 28-32 RESTROOMS
SHEET No. A-103 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

A B C D E



RCP GENERAL NOTES

- REFER TO G-003 FOR LIGHTING GENERAL NOTES
- REFER TO SHEET A-600 FOR MATERIAL LEGEND
- FIELD VERIFY ALL CONDITIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE WORK COMMENCES
- ALL LIGHT FIXTURES & SPRINKLERS NOT LOCATED BY DIMENSIONS ARE TO BE CENTERED IN CEILING TILES, CENTER FIXTURE IN ROOM UNLESS NOTED.
- PATCH, REPAIR & REFINISH EXISTING CONDITIONS DAMAGED DURING CONSTRUCTION
- ALL FIXTURES, EQUIPMENT, FURNITURE, AND FINISHES TO BE HAS RESTROOMS STANDARD, U.N.O. VERIFY WITH OWNER

REFLECTED CEILING PLAN LEGEND

- GYP. BD. CEILING
- ROUND RECESSED CAN LIGHT FIXTURE
- LINEAR RECESSED LIGHT FIXTURE
- DECORATIVE LINEAR LIGHT FIXTURE
- NEW 2x2 TROFFER LIGHT FIXTURE
- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- SUPPLY/EXHAUST LINEAR AIR DEVICE
- SMART STALL OCCUPANCY LIGHTS
- SUPPLY AIR DEVICE
- EXHAUST GRILLE
- MC1
- MC3
- MC2

A1 RCP - GATE 20-23 RESTROOMS
SCALE: 1/4" = 1'-0"



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

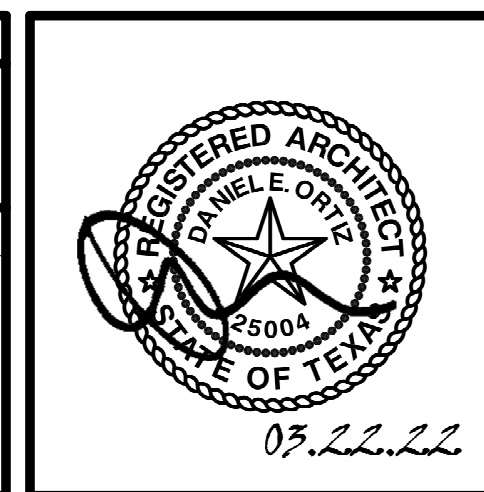
REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

IFB
ISSUED FOR BIDDING



SHEET NAME:
REFLECTED CEILING PLAN - GATE 20-23 RESTROOMS
SHEET No. A-140 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

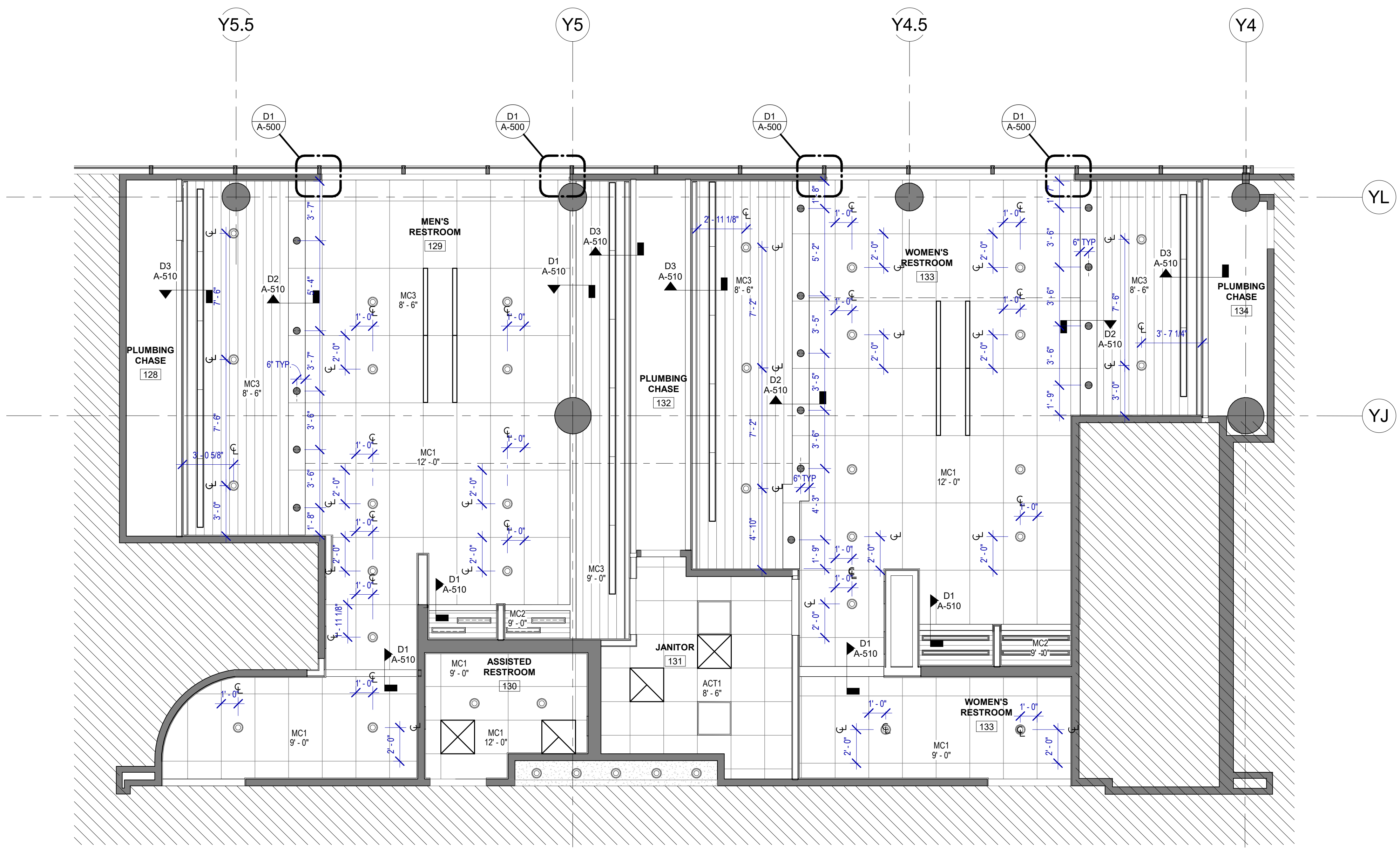
A B C D E

RCP GENERAL NOTES

- REFER TO G-003 FOR LIGHTING GENERAL NOTES
- REFER TO SHEET A-600 FOR MATERIAL LEGEND
- FIELD VERIFY ALL CONDITIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE WORK COMMENCES
- ALL LIGHT FIXTURES & SPRINKLERS NOT LOCATED BY DIMENSIONS ARE TO BE CENTERED IN CEILING TILES, CENTER FIXTURE IN ROOM UNLESS NOTED.
- PATCH, REPAIR & REFINISH EXISTING CONDITIONS DAMAGED DURING CONSTRUCTION
- ALL FIXTURES, EQUIPMENT, FURNITURE, AND FINISHES TO BE HAS RESTROOMS STANDARD, U.N.O. VERIFY WITH OWNER

REFLECTED CEILING PLAN LEGEND

- GYP. BD. CEILING
- ROUND RECESSED CAN LIGHT FIXTURE
- LINEAR RECESSED LIGHT FIXTURE
- DECORATIVE LINEAR LIGHT FIXTURE
- NEW 2'x2' TROFFER LIGHT FIXTURE
- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- SUPPLY/EXHAUST LINEAR AIR DEVICE
- SMART STALL OCCUPANCY LIGHTS
- SUPPLY AIR DEVICE
- EXHAUST GRILLE
- MC1
- MC3
- MC2



A1 RCP - GATE 24-27 RESTROOMS
SCALE: 1/4" = 1'-0"



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects

ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003
713.868.3121 www.rdlr.com



HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

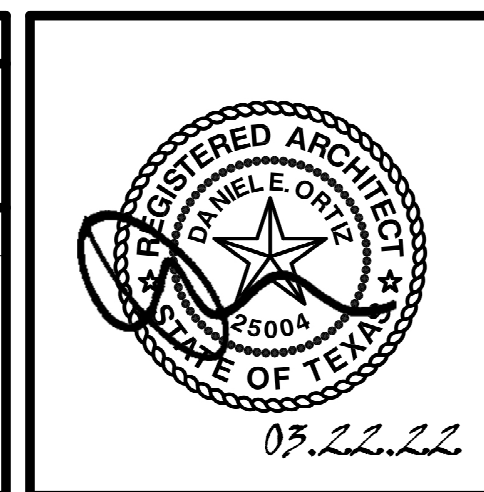
DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
 DRAWN BY: HECTOR BERRIOS
 CHECKED BY: DANIEL ORTIZ
 ISSUE DATE: 03.22.2022
 APPROVED BY: DANIEL ORTIZ
 APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

IFB
ISSUED FOR BIDDING



SHEET NAME:
REFLECTED CEILING PLAN - GATE 24-27 RESTROOMS
SHEET No. A-141 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt
HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt

HAS FILE:

PLOT DATE: 03/22/2022 10:00:00 AM
DOA DWG FILE:
OLD DOA No.:

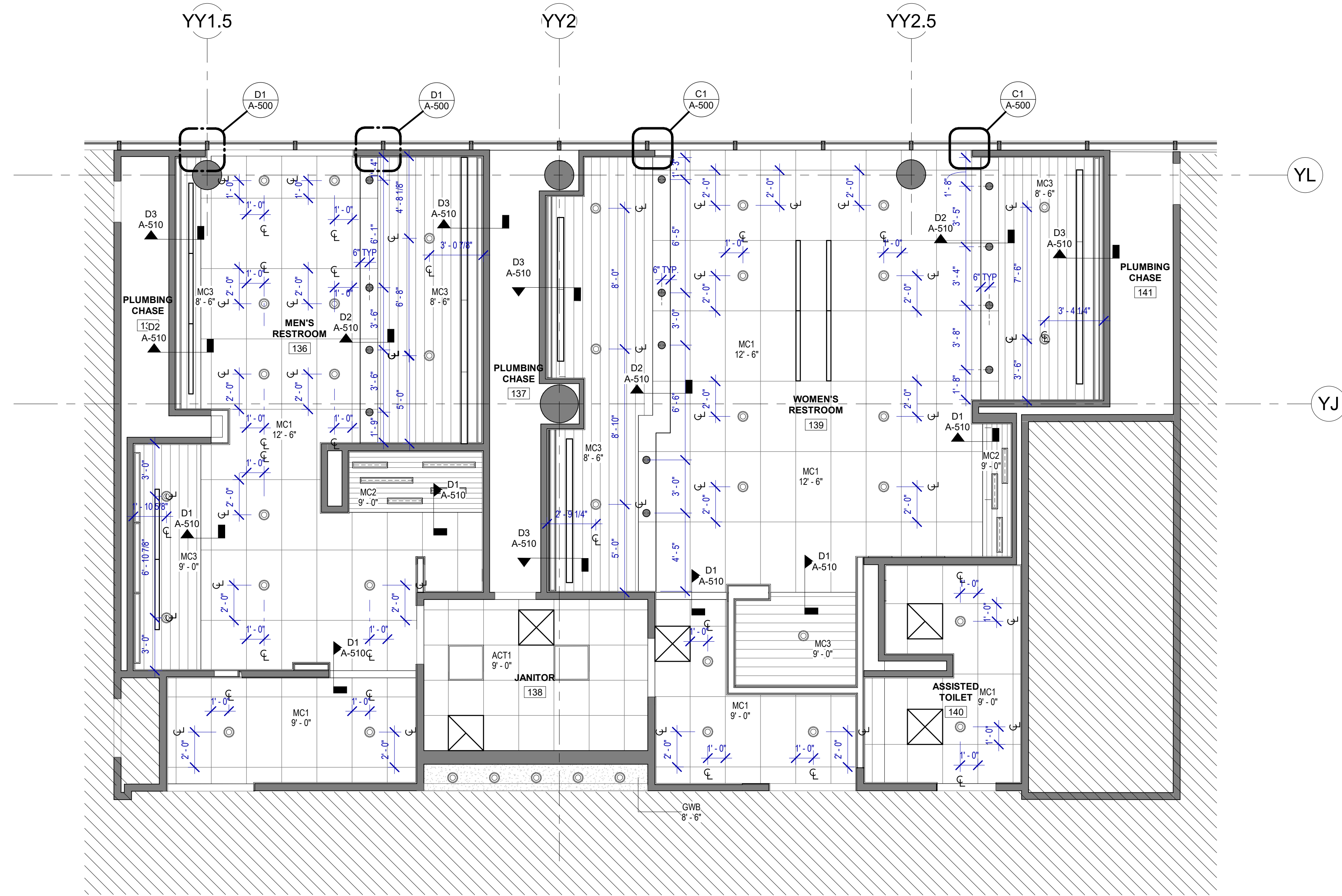
A

B

C

D

E



A1 RCP - GATE 28-32 RESTROOMS
SCALE: 1/4" = 1'-0"

RCP GENERAL NOTES

- REFER TO G-003 FOR LIGHTING GENERAL NOTES
- REFER TO SHEET A-600 FOR MATERIAL LEGEND
- FIELD VERIFY ALL CONDITIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE WORK COMMENCES
- ALL LIGHT FIXTURES & SPRINKLERS NOT LOCATED BY DIMENSIONS ARE TO BE CENTERED IN CEILING TILES. CENTER FIXTURE IN ROOM UNLESS NOTED.
- PATCH, REPAIR & REFINISH EXISTING CONDITIONS DAMAGED DURING CONSTRUCTION
- ALL FIXTURES, EQUIPMENT, FURNITURE, AND FINISHES TO BE HAS RESTROOMS STANDARD, U.N.O. VERIFY WITH OWNER

REFLECTED CEILING PLAN LEGEND

- GYP. BD. CEILING
- ROUND RECESSED CAN LIGHT FIXTURE
- LINEAR RECESSED LIGHT FIXTURE
- DECORATIVE LINEAR LIGHT FIXTURE
- NEW 2X2 TROFFER LIGHT FIXTURE
- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- SUPPLY/EXHAUST LINEAR AIR DEVICE
- SMART STALL OCCUPANCY LIGHTS
- SUPPLY AIR DEVICE
- EXHAUST GRILLE
- MC1
- MC3
- MC2



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects

ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



**HENDERSON
ROGERS**
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05

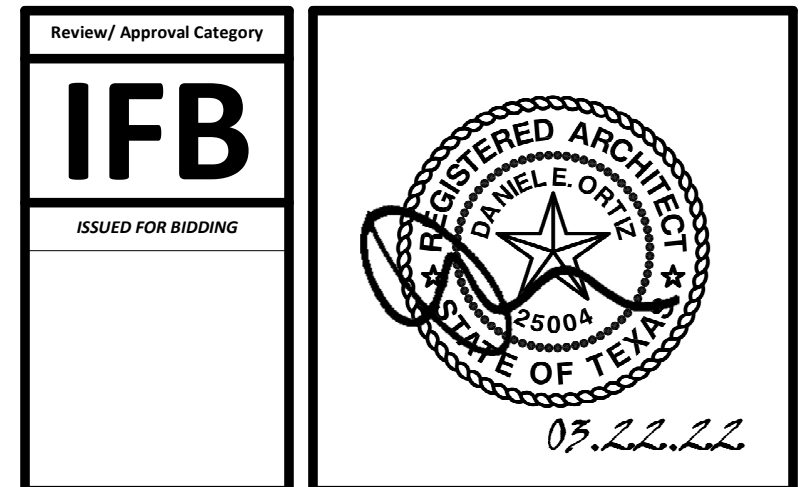
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
 DRAWN BY: HECTOR BERRIOS
 CHECKED BY: DANIEL ORTIZ
 ISSUE DATE: 03.22.2022
 APPROVED BY: DANIEL ORTIZ
 APPROVAL DATE: 03.22.2022

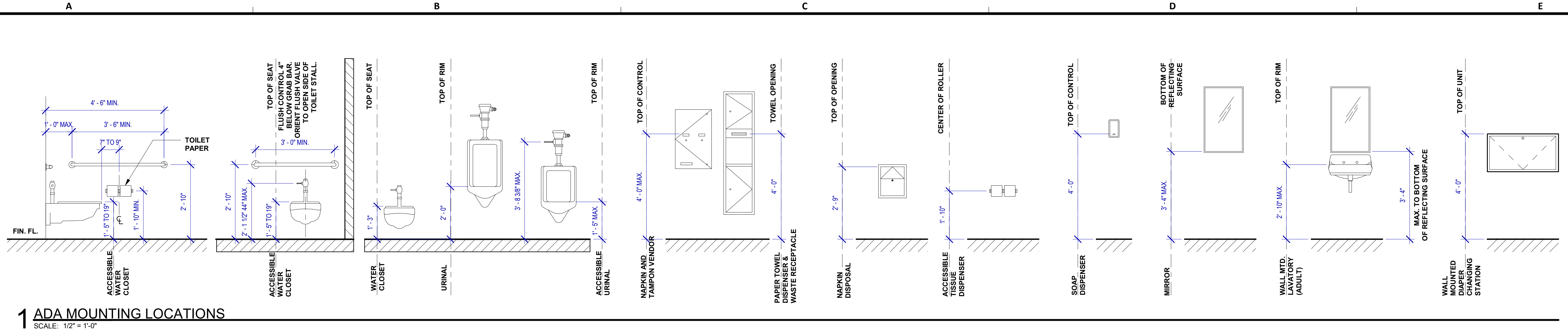
DIRECTOR
of
HOUSTON AIRPORT SYSTEM



SHEET NAME:
REFLECTED CEILING PLAN - GATE 28-32
RESTROOMS

SHEET No. A-142 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

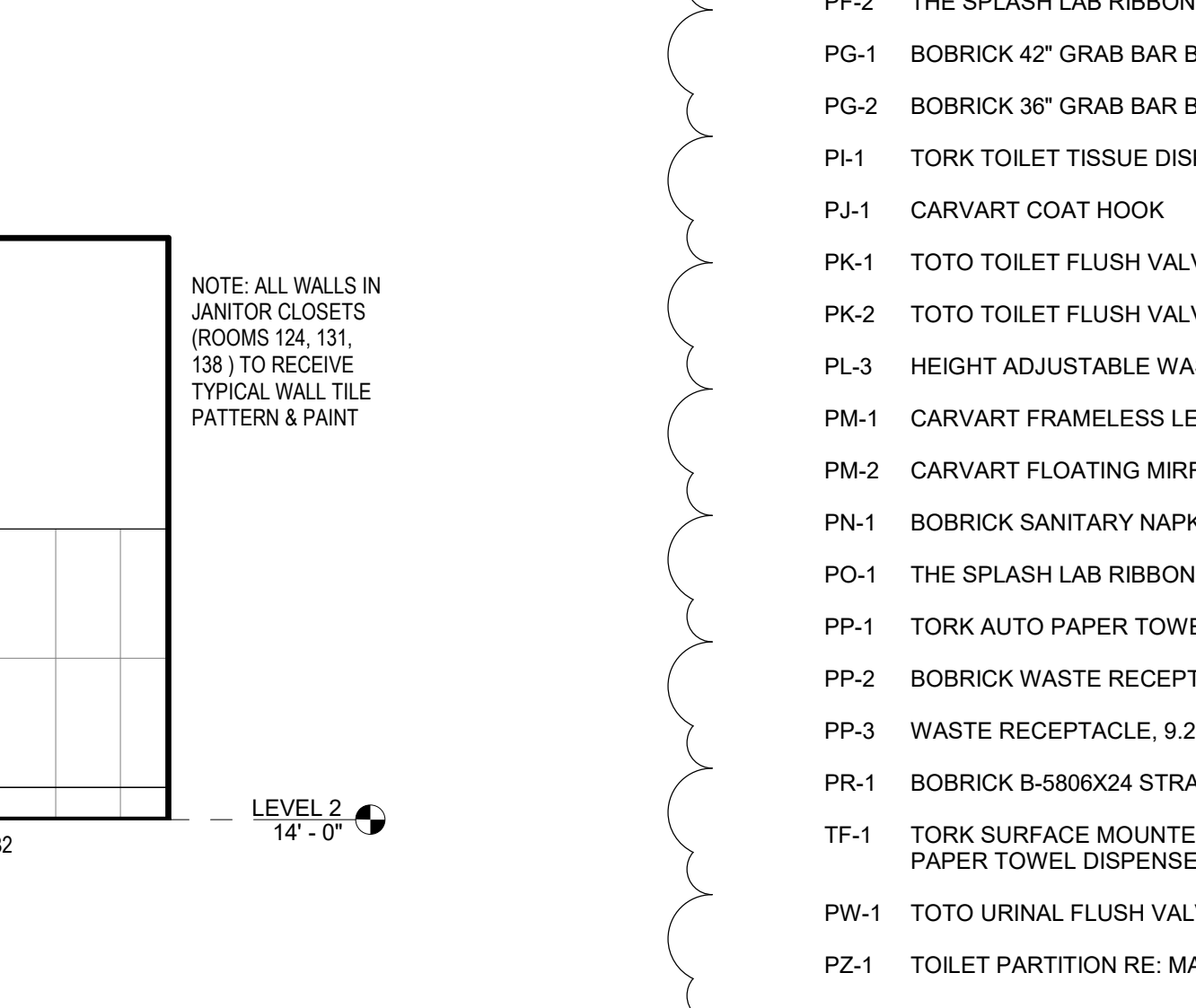
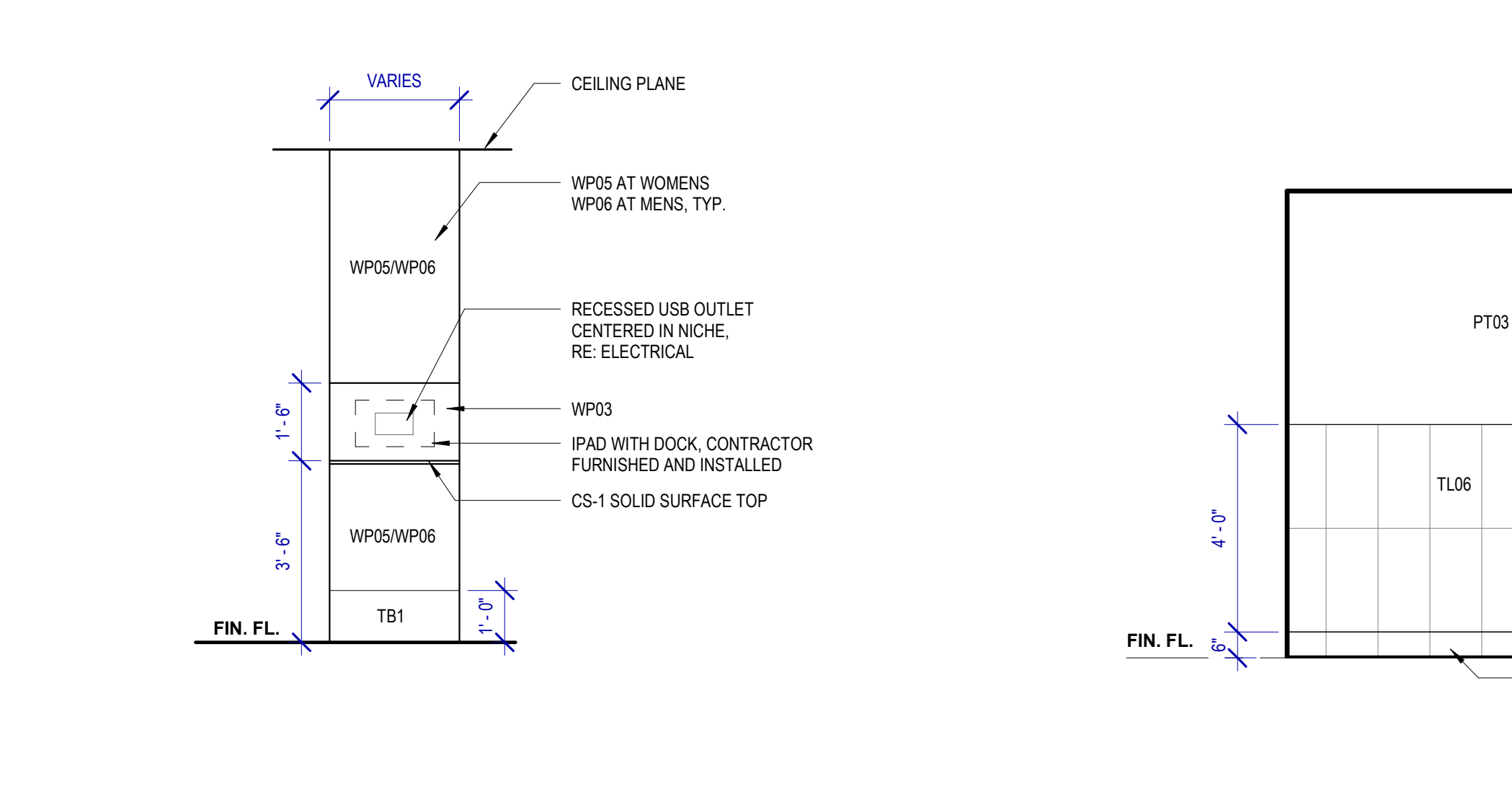
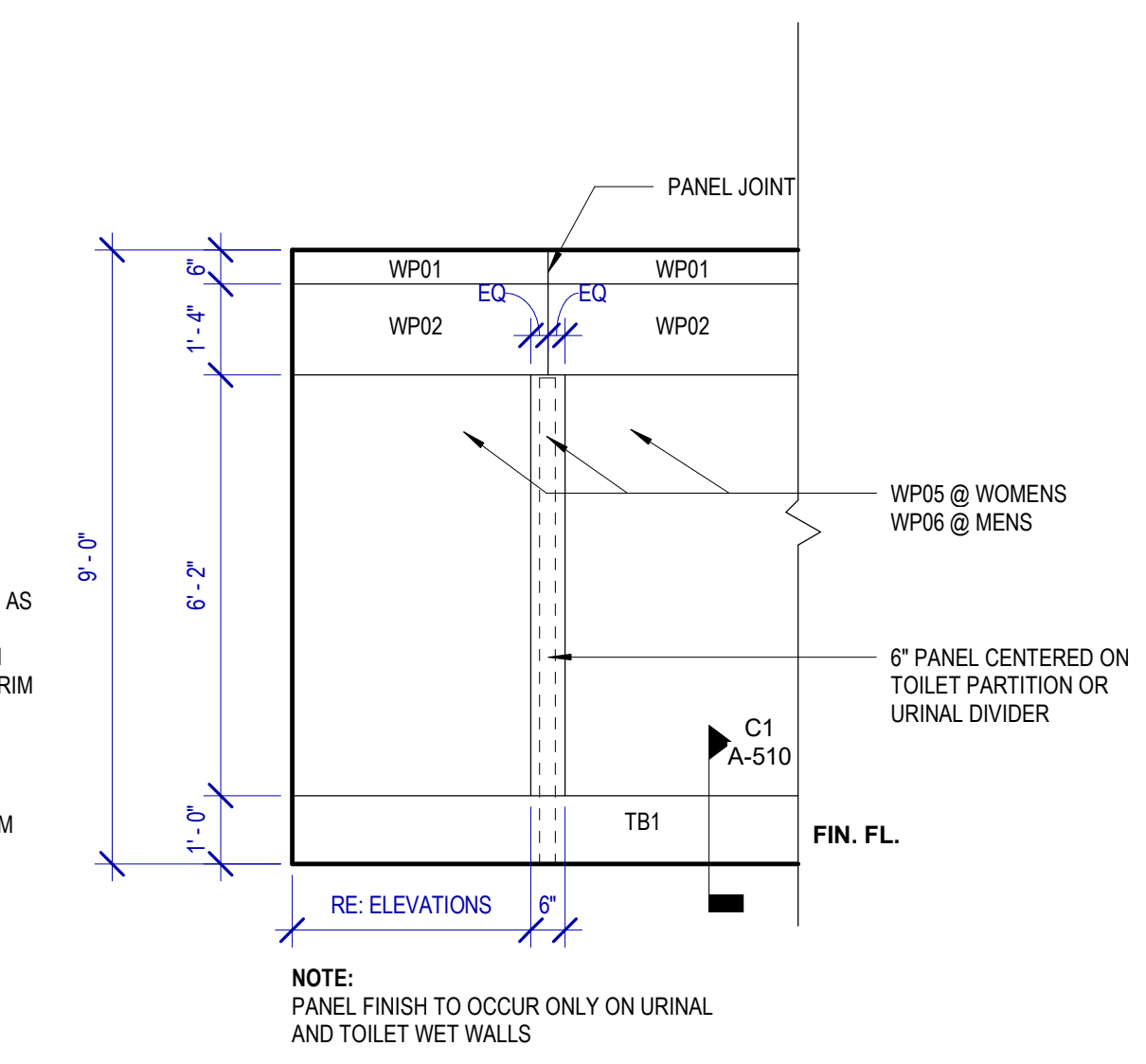
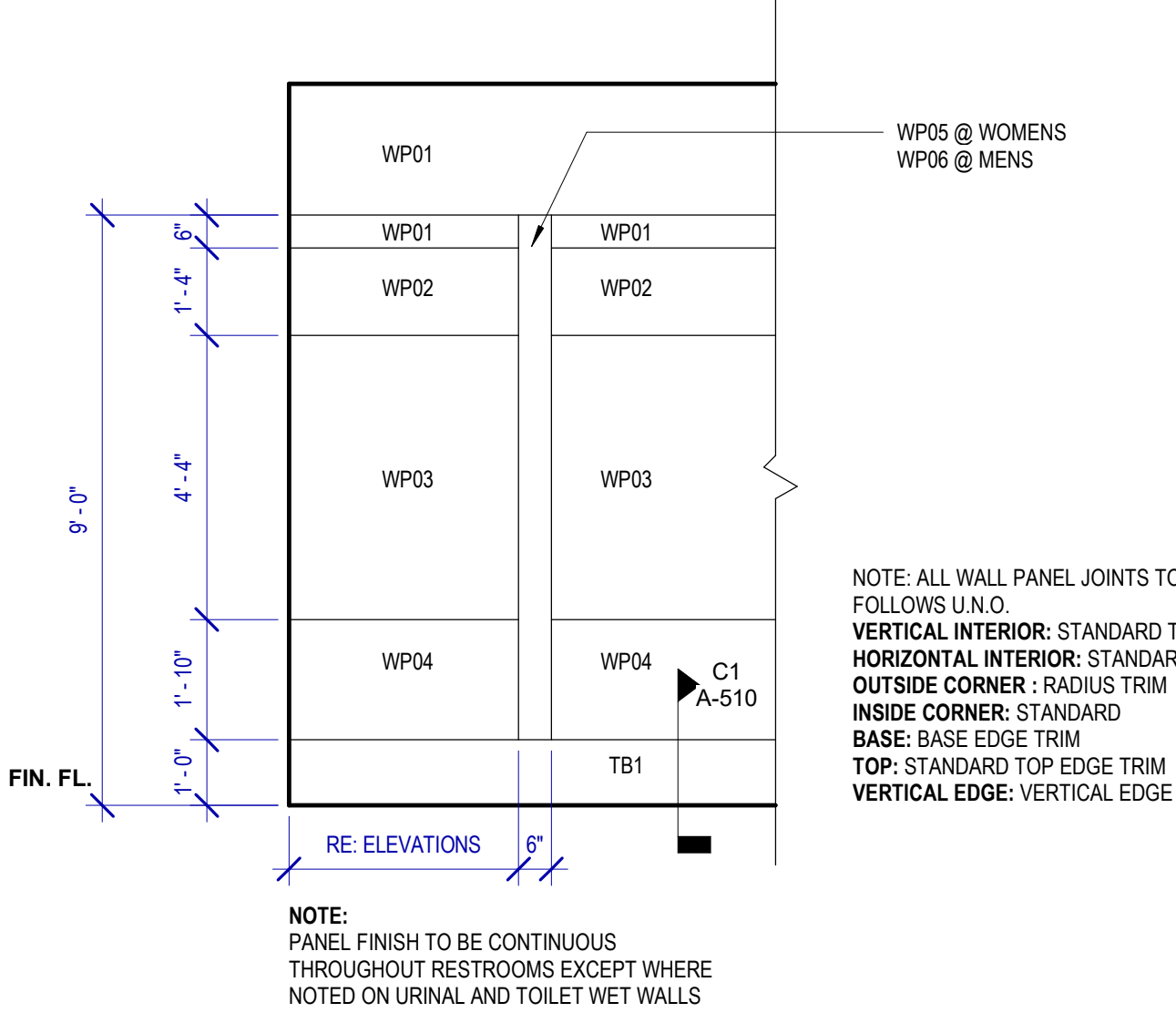
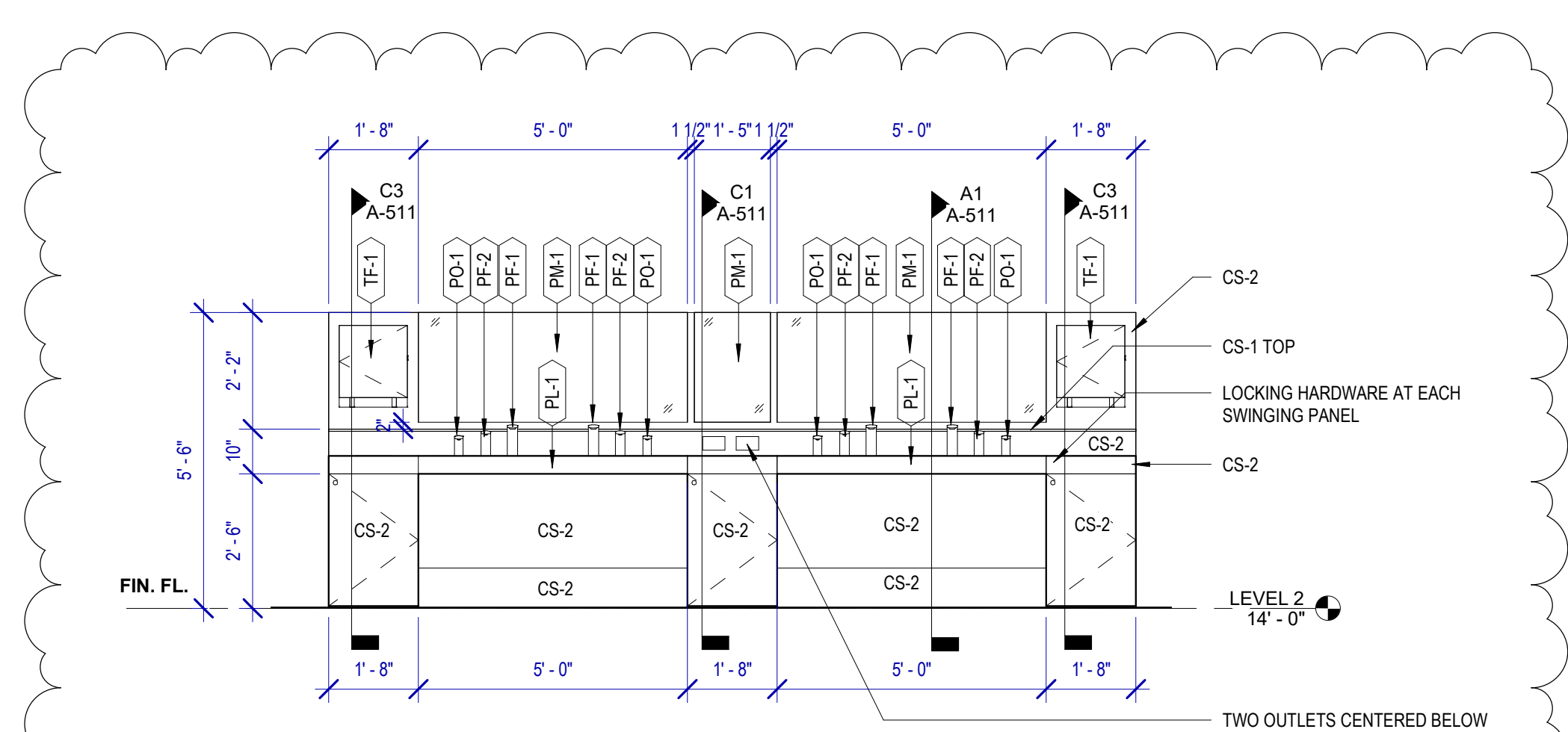
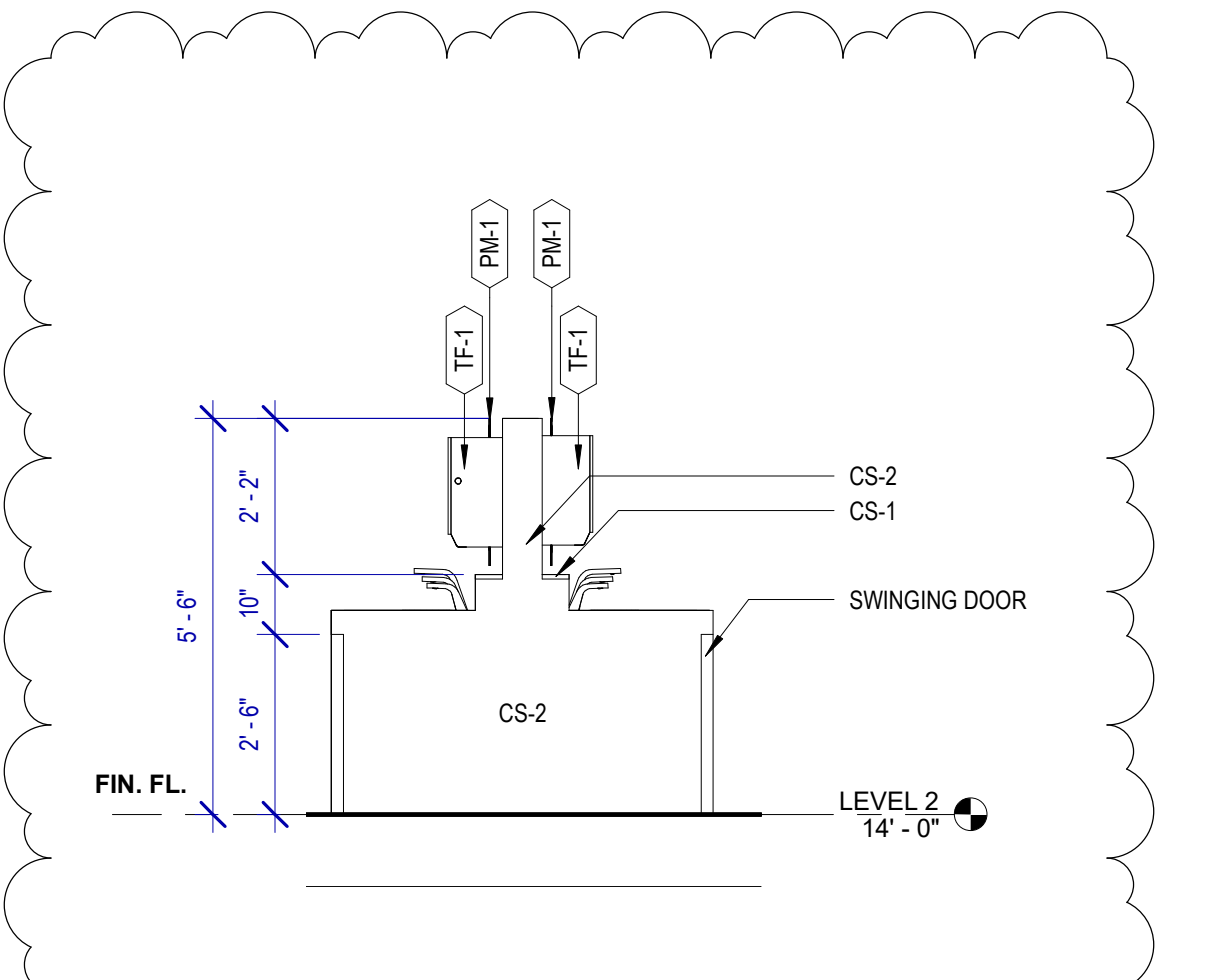
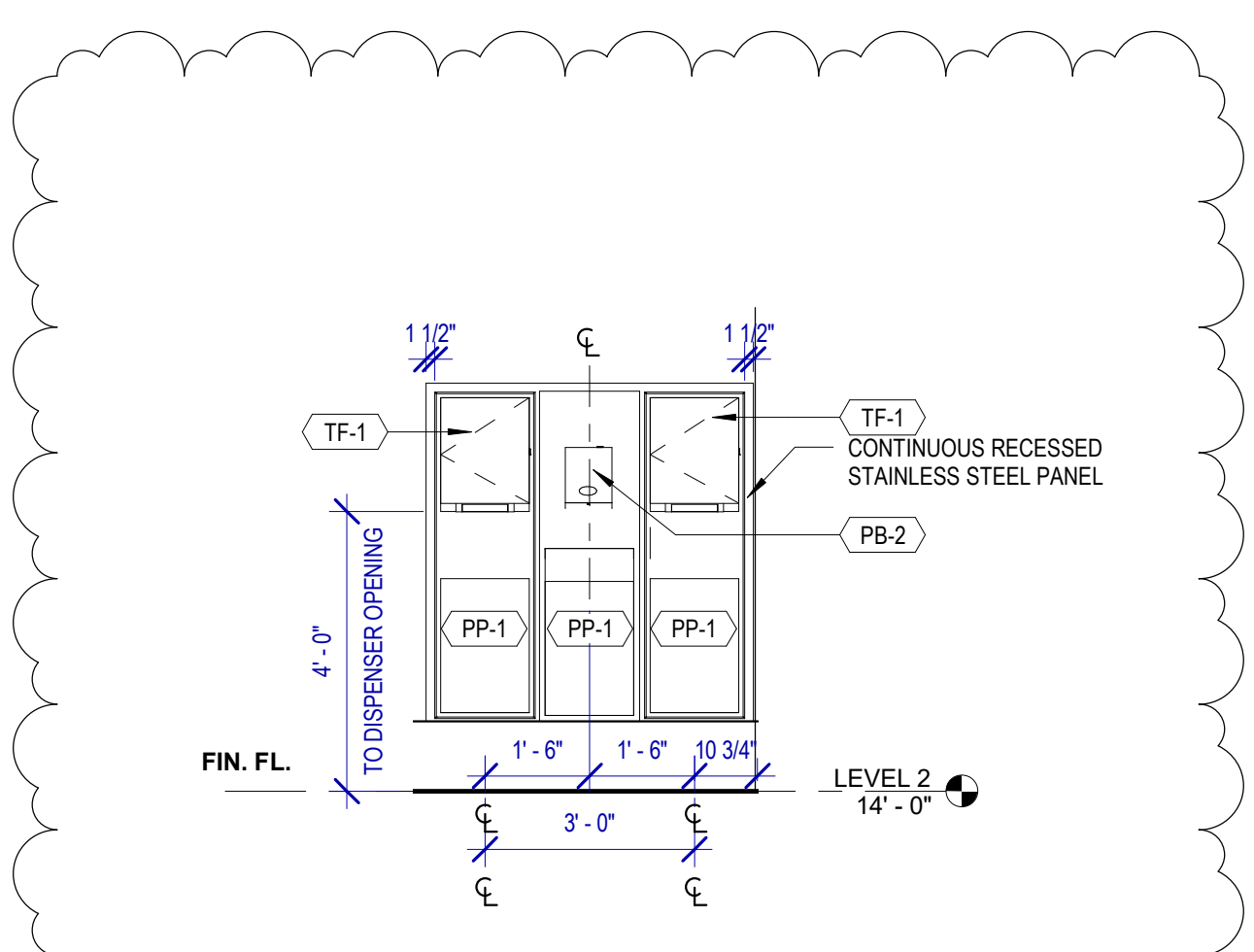


INTERIOR ELEVATIONS NOTES

- REFER TO SHEET A600 FOR FINISH LEGEND.
- AT MENS ADA RESTROOMS: DO NOT INSTALL SANITARY NAPKIN DISPOSAL.
- AT MENS ADA RESTROOM: THE TOILET SEAT COVER DISPENSER SHALL BE PLACED UNDER THE GRAB BAR, NEXT TO TOILET ISSUE DISPENSER AND CLOSEST TO BACK WALL, TAKING THE PLACE OF SANITARY NAPKIN DISPOSAL SHOWN IN THE WOMEN LAYOUTS. THE TOP OF SEAT COVER DISPENSER SHALL BE 2 INCHES UNDER THE BOTTOM OF GRAB BAR.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
- INSTALL COAT HOOKS IN AMBULATORY AND ADA STALLS AT 4FT. IN ANY OTHER RESTROOM AT 5FT.

TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 468100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON B-5806
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PI-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE, 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEL3LN
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP 'N WASH SNW-SS 975B
- PX-1 BOBRICK B-223



HOUSTON AIRPORTS

7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800 Houston, Texas 77057 713.430.5800 713.430.5888 fax www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

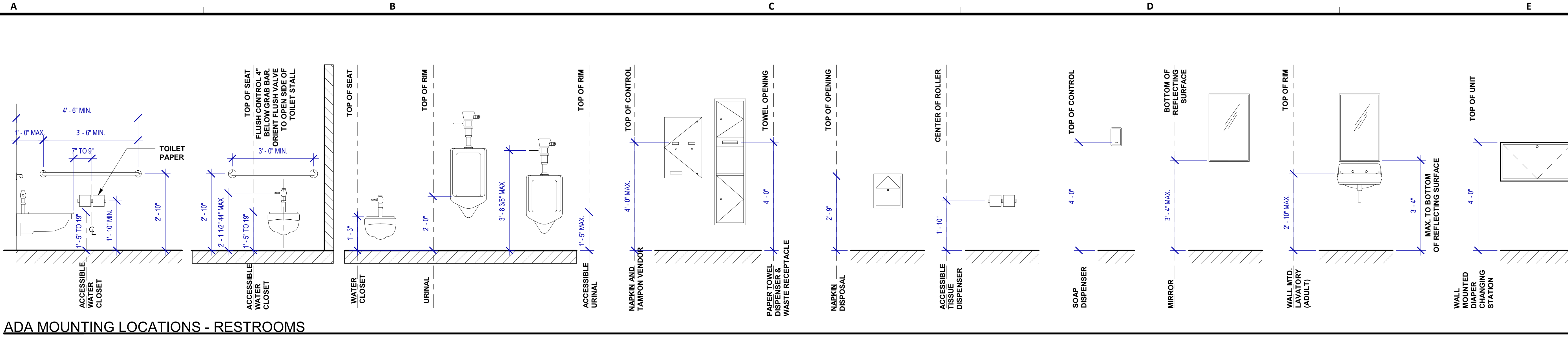
DIRECTOR of HOUSTON AIRPORT SYSTEM

IFB ISSUED FOR BIDDING

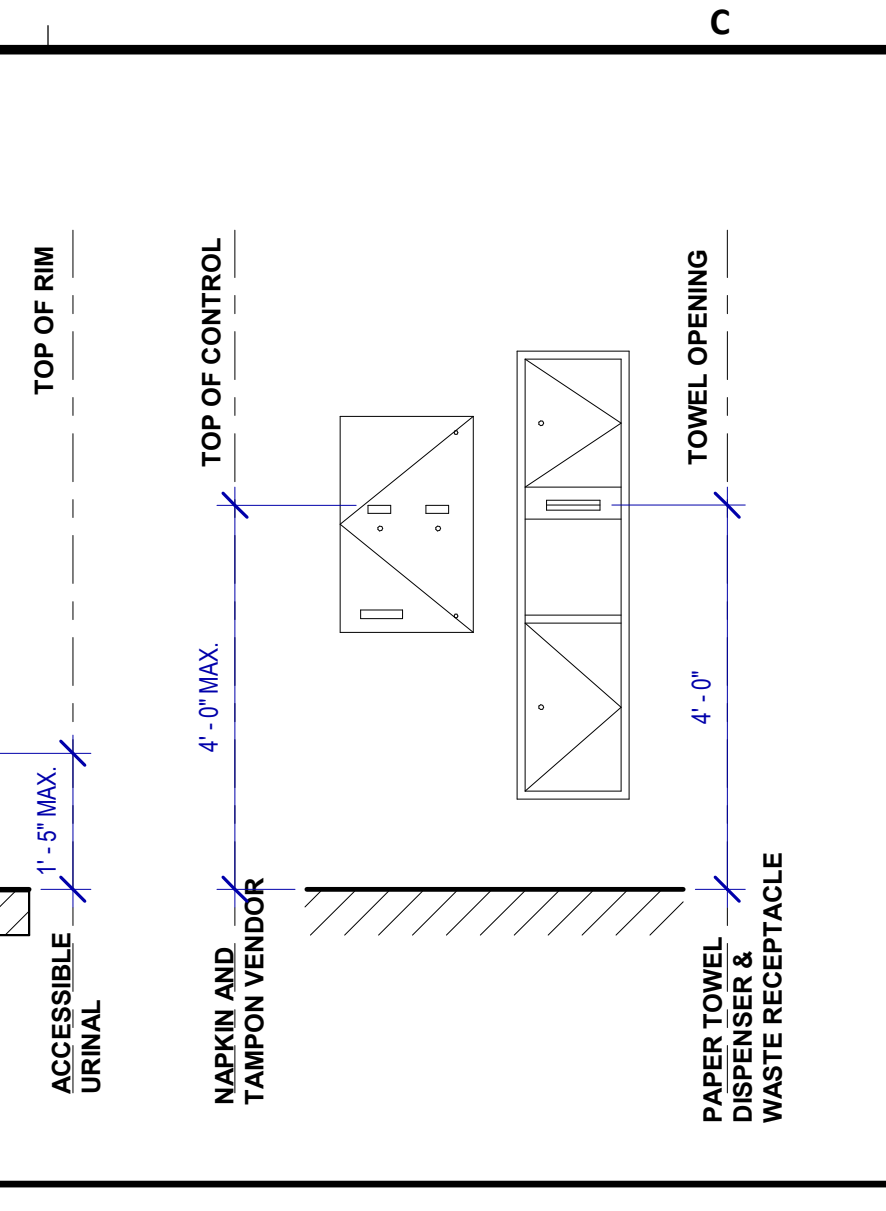
REGISTERED ARCHITECT DANIEL ORTIZ 25004 STATE OF TEXAS 03.22.22

SHEET NAME: TYPICAL ELEVATIONS & PLANS
SHEET No. A-420 SCALE: As indicated

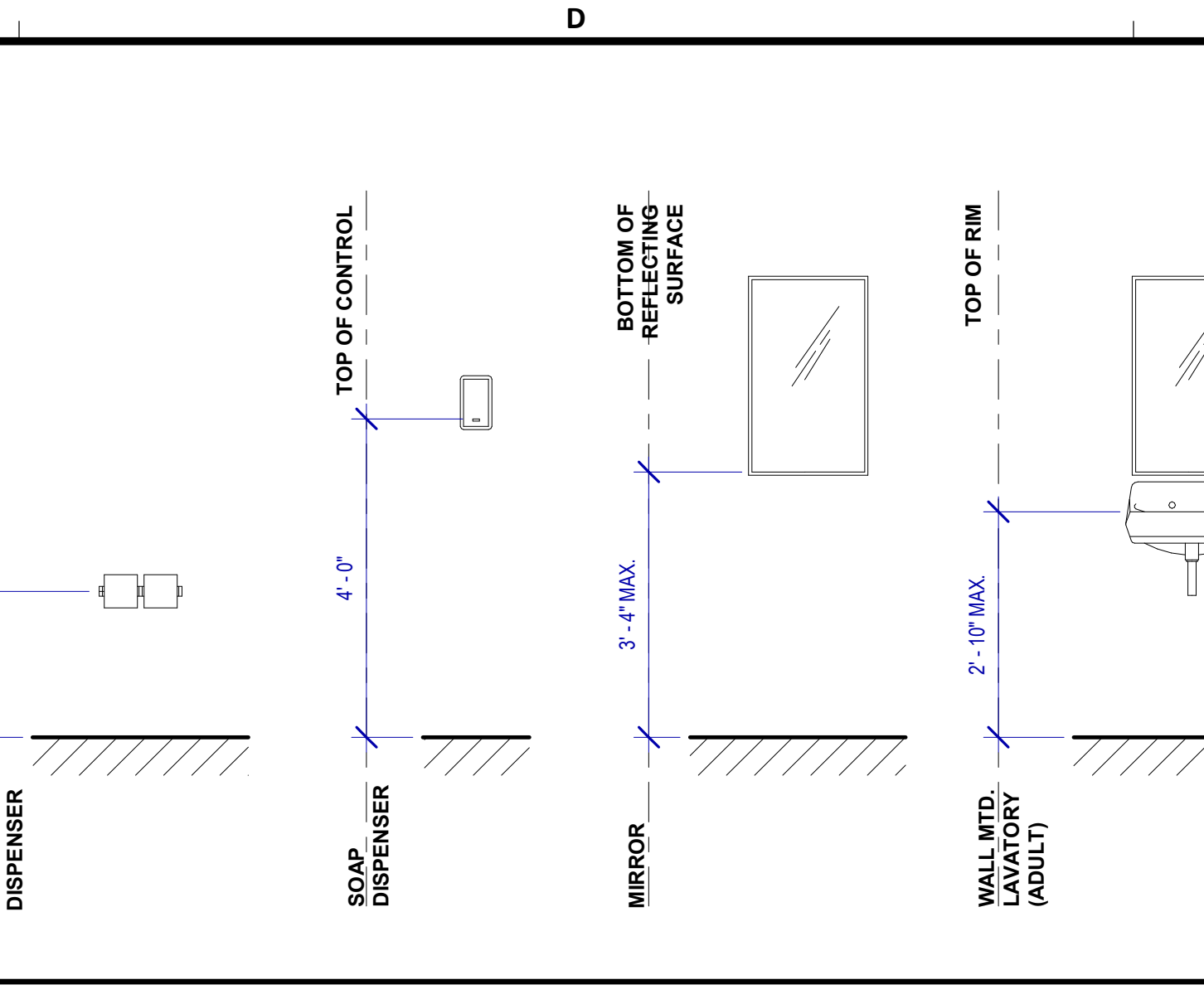
SHEET SIZE: 30"x42" ARCH E1



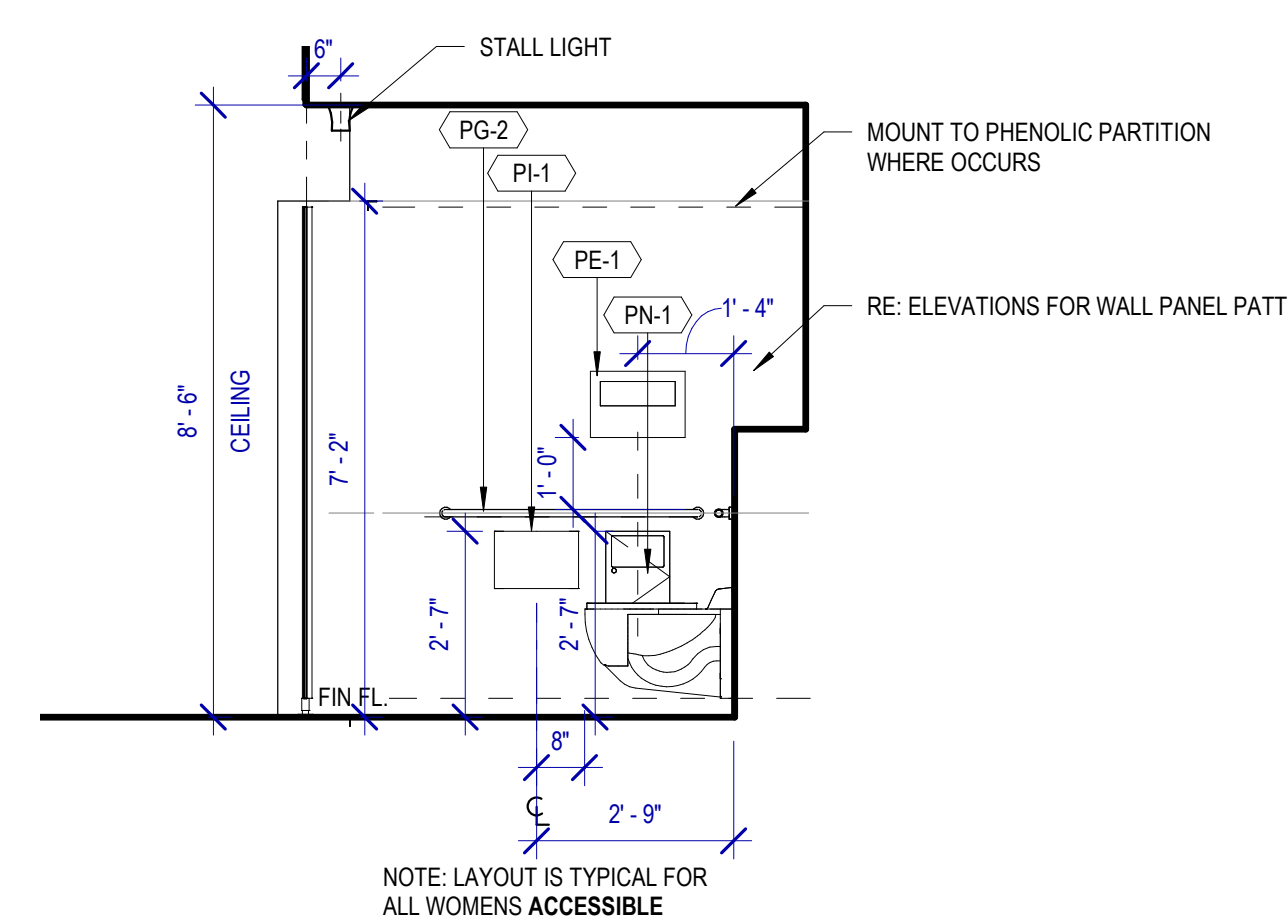
A4 ADA MOUNTING LOCATIONS - RESTROOMS



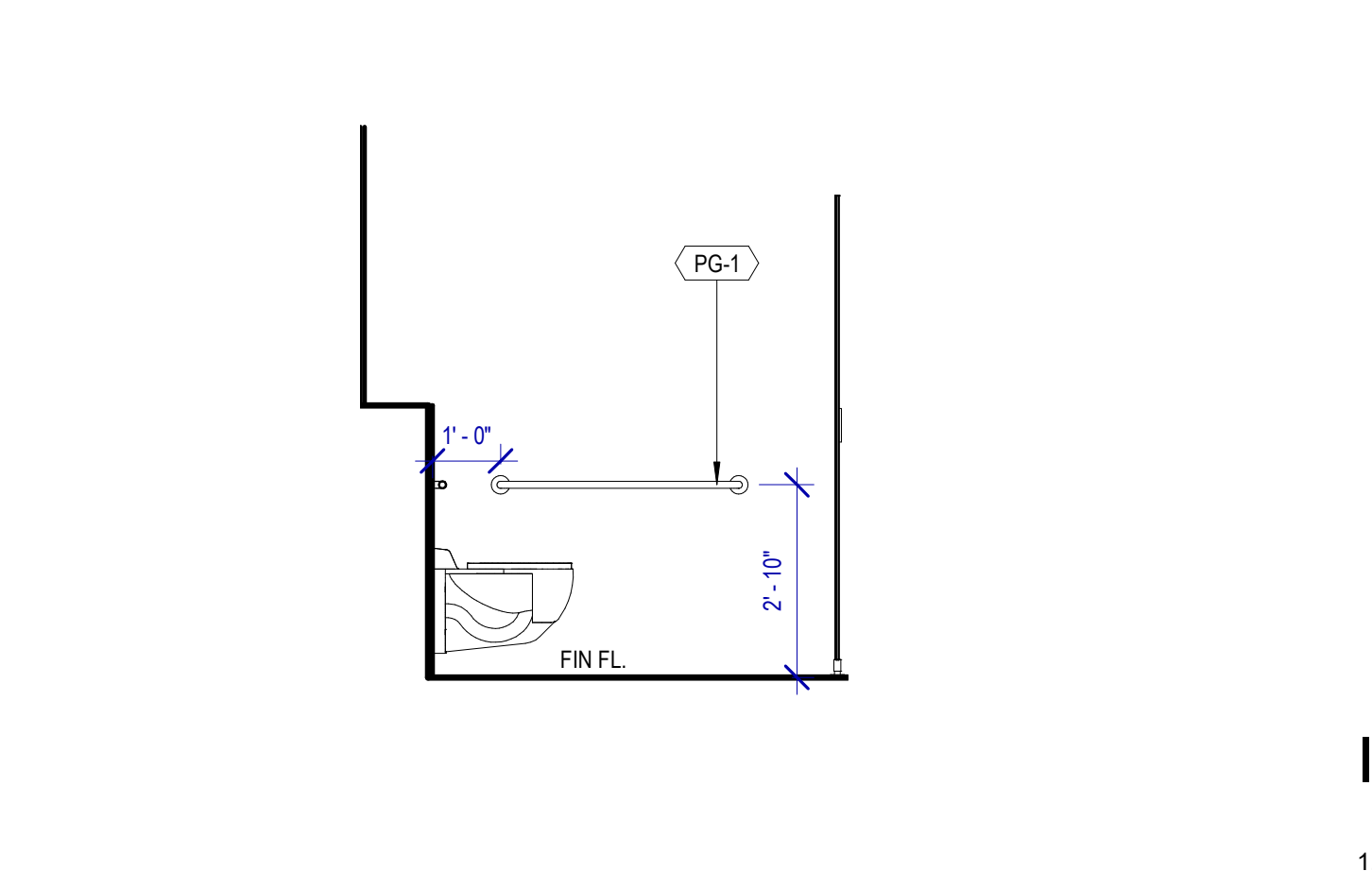
C3 TYPICAL ADA STALL - BACK
SCALE: 3/8" = 1'-0"
WOMENS RESTROOM SHOWN



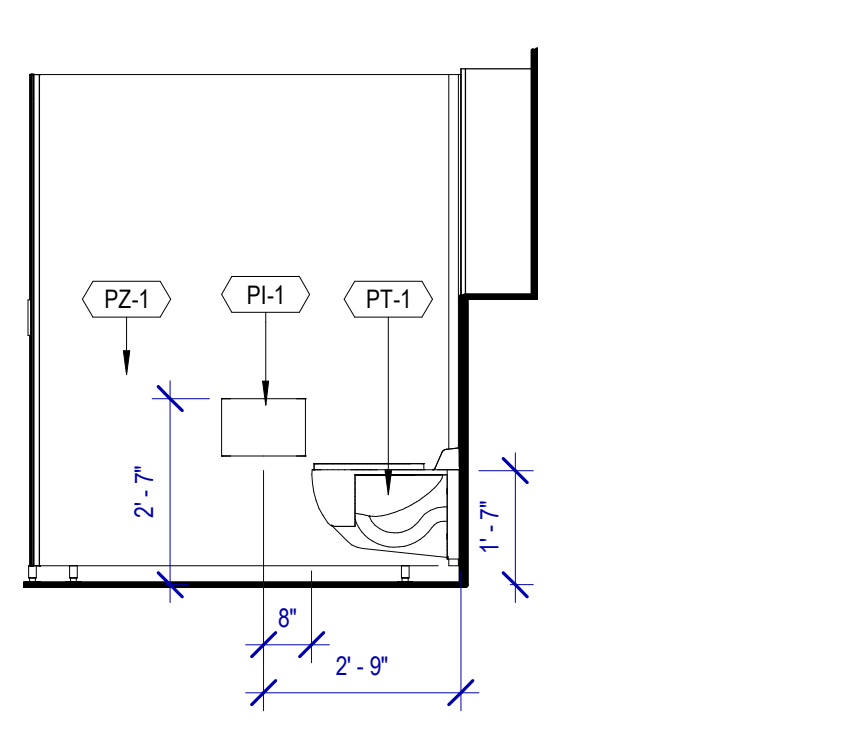
D3 TYPICAL TOILET STALL FLOOR PLANS
SCALE: 1/2" = 1'-0"
WOMENS RESTROOM SHOWN



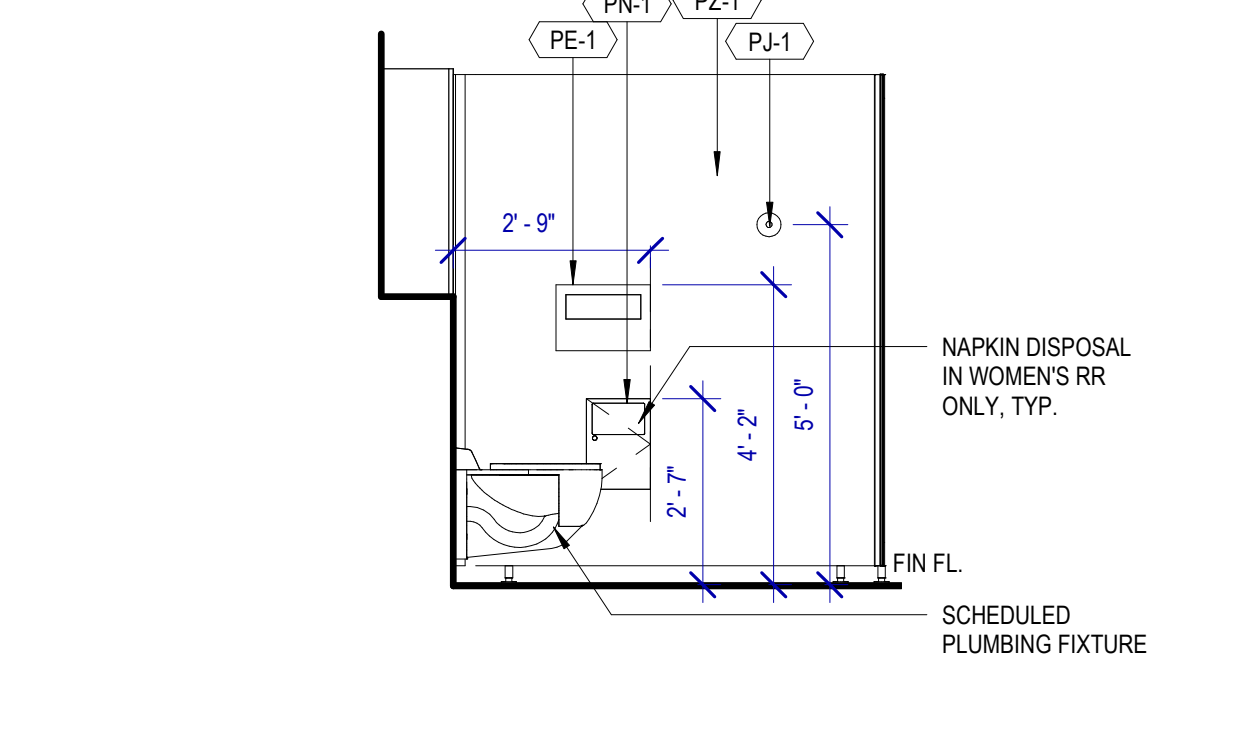
C2 TYP. ELEVATION - ADA STALL - A
SCALE: 3/8" = 1'-0"
WOMENS RESTROOM SHOWN



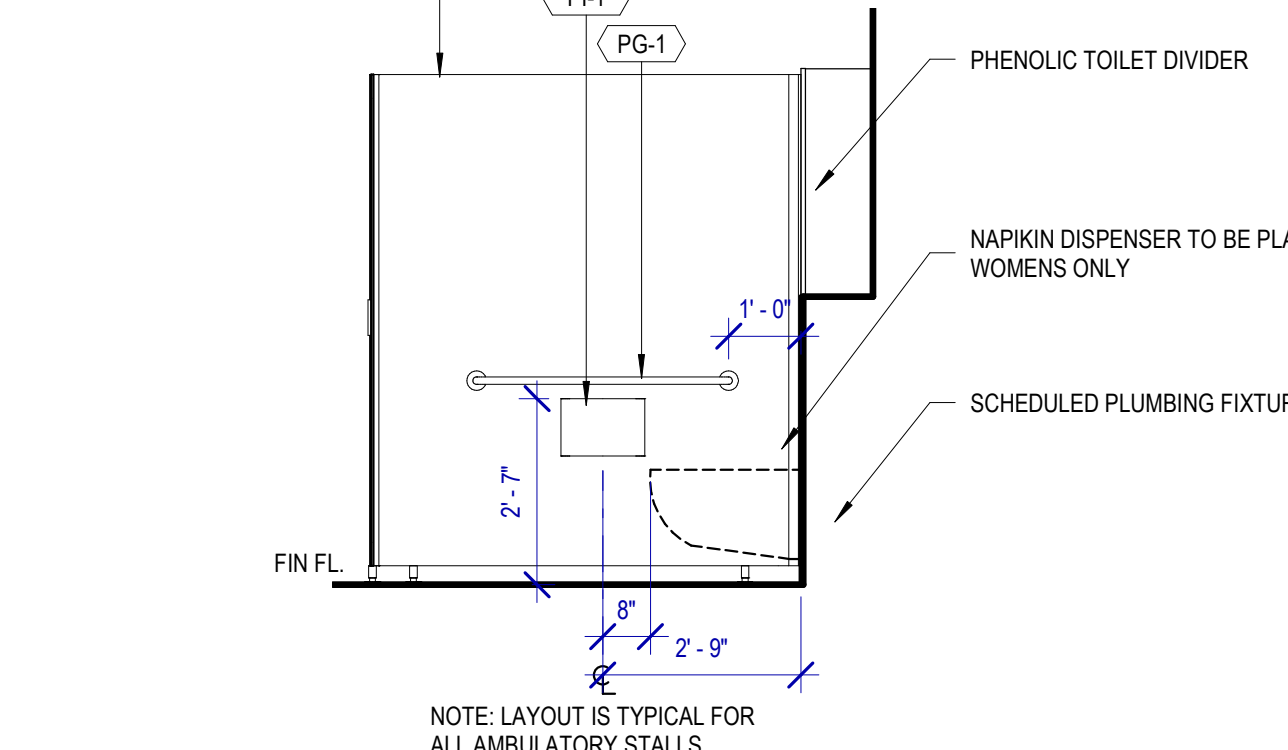
D2 TYPICAL ADA STALL ELEVATION - B
SCALE: 3/8" = 1'-0"
WOMENS RESTROOM SHOWN



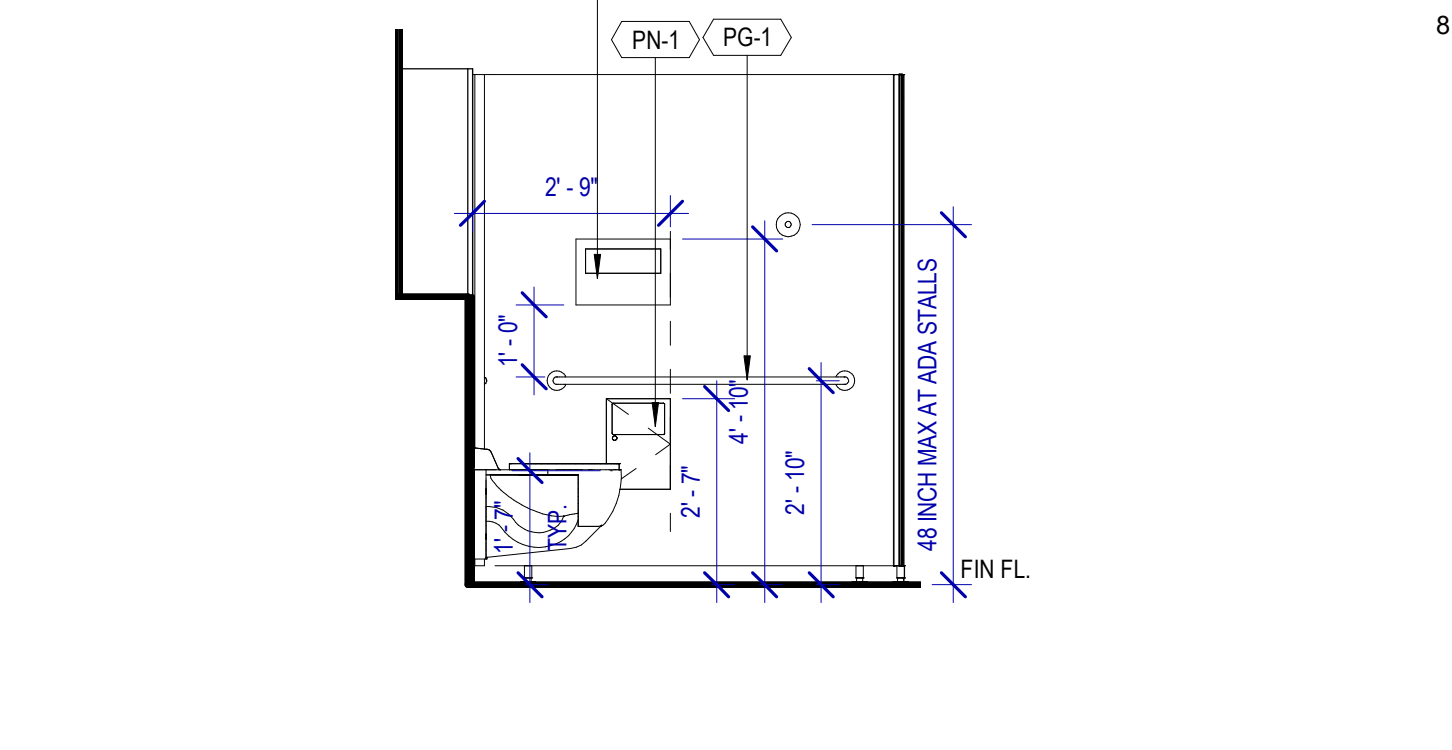
A1 TYPICAL ELEVATION - STANDARD STALL A
SCALE: 3/8" = 1'-0"



B1 TYPICAL ELEVATION - STANDARD STALL - B
SCALE: 3/8" = 1'-0"



C1 TYP. ELEVATION - AMBULATORY STALL - A
SCALE: 3/8" = 1'-0"
WOMENS RESTROOM SHOWN



D1 TYP. ELEVATION - AMBULATORY STALL - B
SCALE: 3/8" = 1'-0"
WOMENS RESTROOM SHOWN

TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON TSLR.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PI-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.R.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE, 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP 'N WASH SNW-SS 975B
- PX-1 BOBRICK B-223

- ### INTERIOR ELEVATIONS NOTES
- REFER TO SHEET A600 FOR FINISH LEGEND.
 - AT MENS ADA RESTROOMS: DO NOT INSTALL SANITARY NAPKIN DISPOSAL.
 - AT MENS ADA RESTROOM: THE TOILET SEAT COVER DISPENSER SHALL BE PLACED UNDER THE GRAB BAR, NEXT TO TOILET ISSUE DISPENSER AND CLOSEST TO BACK WALL, TAKING THE PLACE OF SANITARY NAPKIN DISPOSAL SHOWN IN THE WOMEN LAYOUTS. THE TOP OF SEAT COVER DISPENSER SHALL BE 2 INCHES UNDER THE BOTTOM OF GRAB BAR.
 - ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
 - PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
 - REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
 - INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
 - INSTALL COAT HOOKS IN AMBULATORY AND ADA STALLS AT 4FT. IN ANY OTHER RESTROOM AT 5FT.

7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

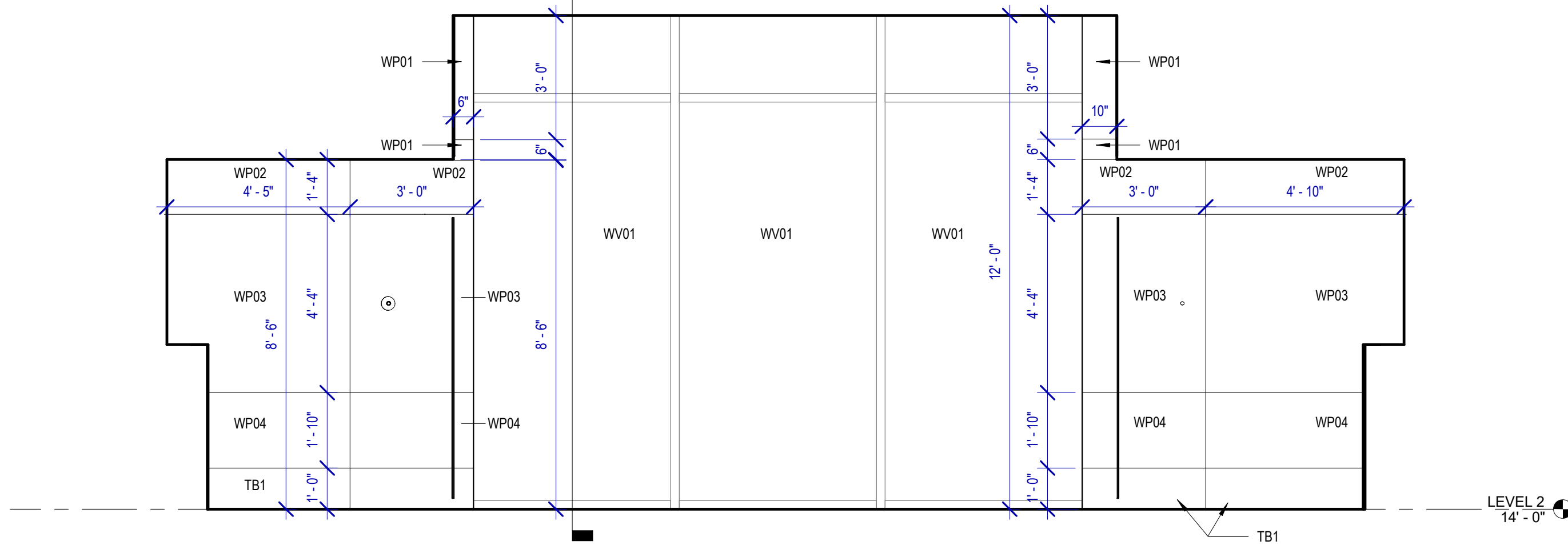
Reviewed/Approval Category
IFB
ISSUED FOR BIDDING

REGISTERED ARCHITECT
DANIEL ORTIZ
2000
STATE OF TEXAS
03.22.22

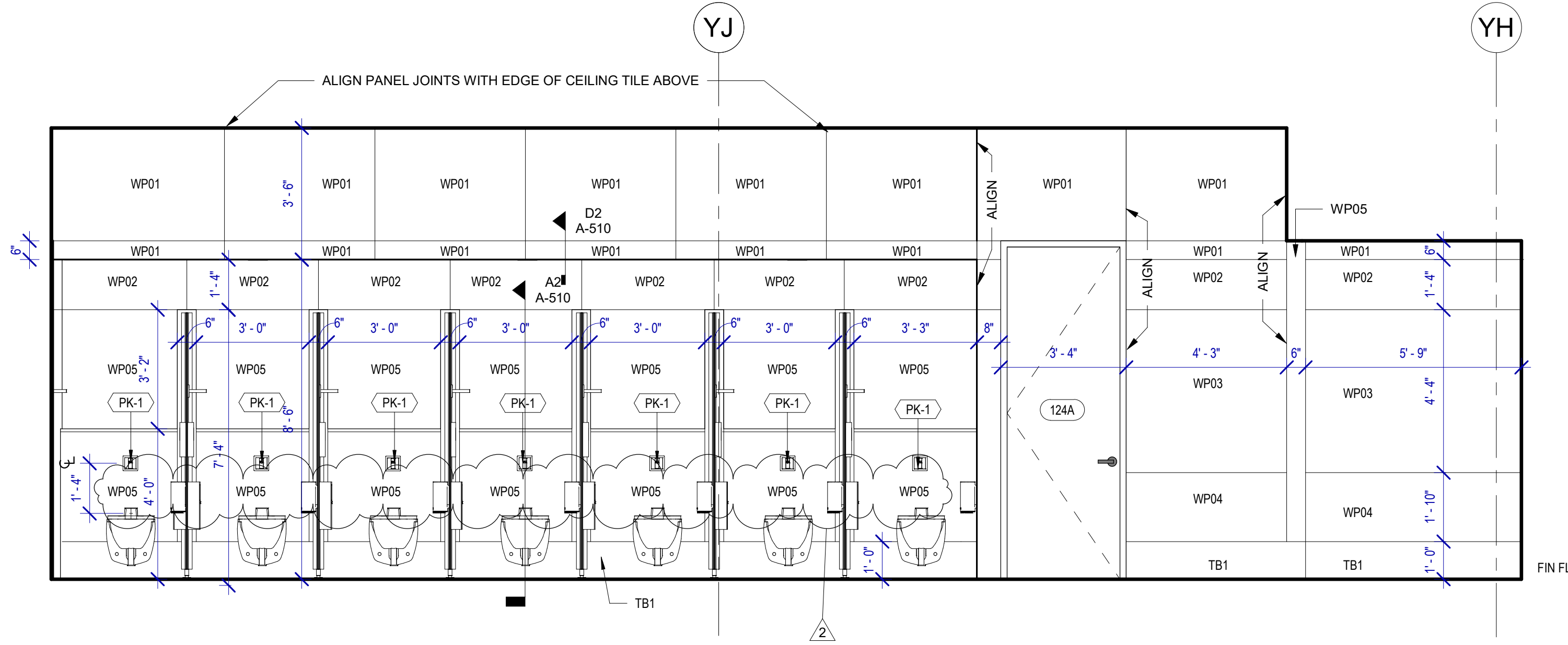
SHEET NAME: TYPICAL STALL PLANS & ELEVATIONS
SHEET No. A-421 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

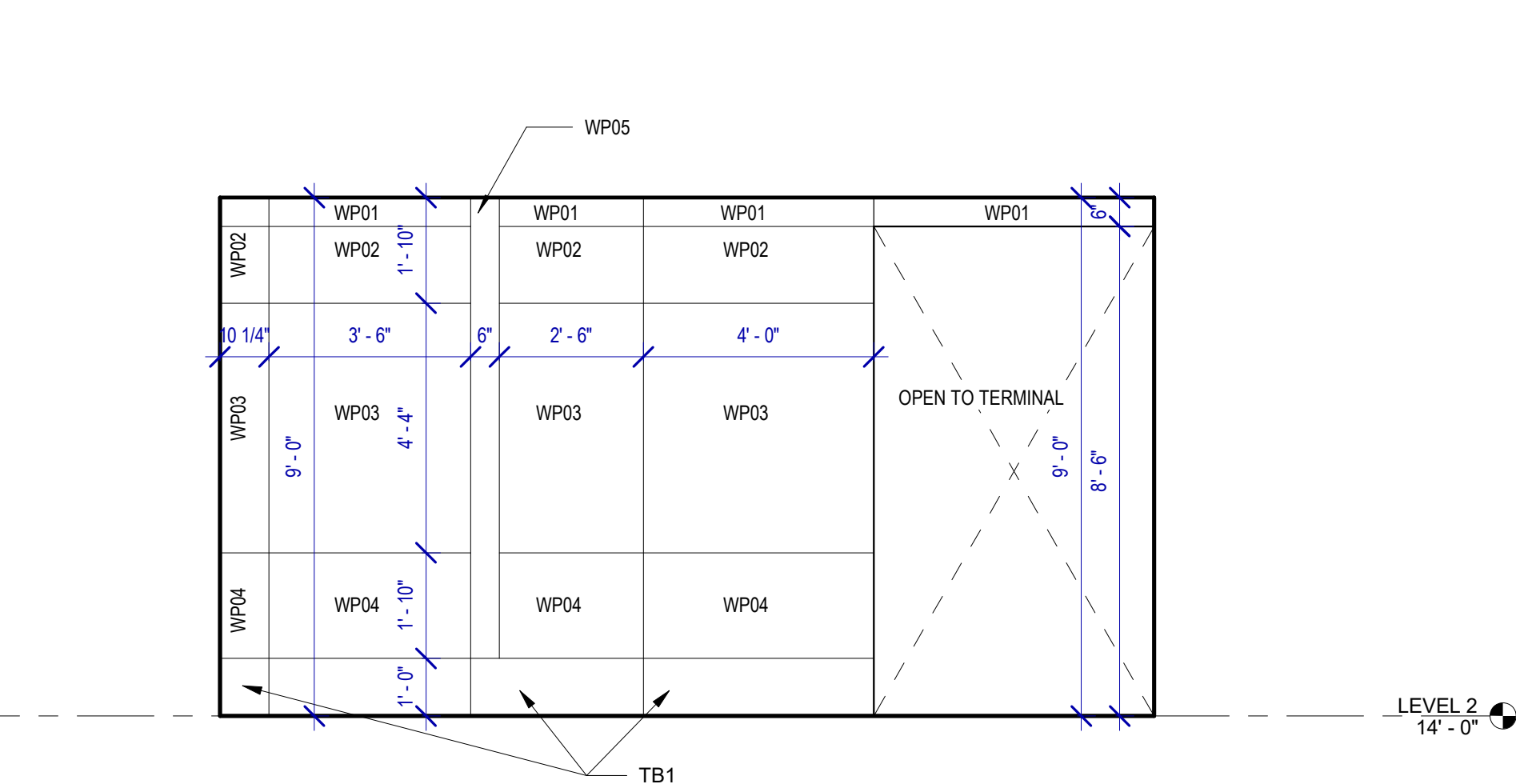
A4 WOMENS 121 NORTH
SCALE: 3/8" = 1'-0"



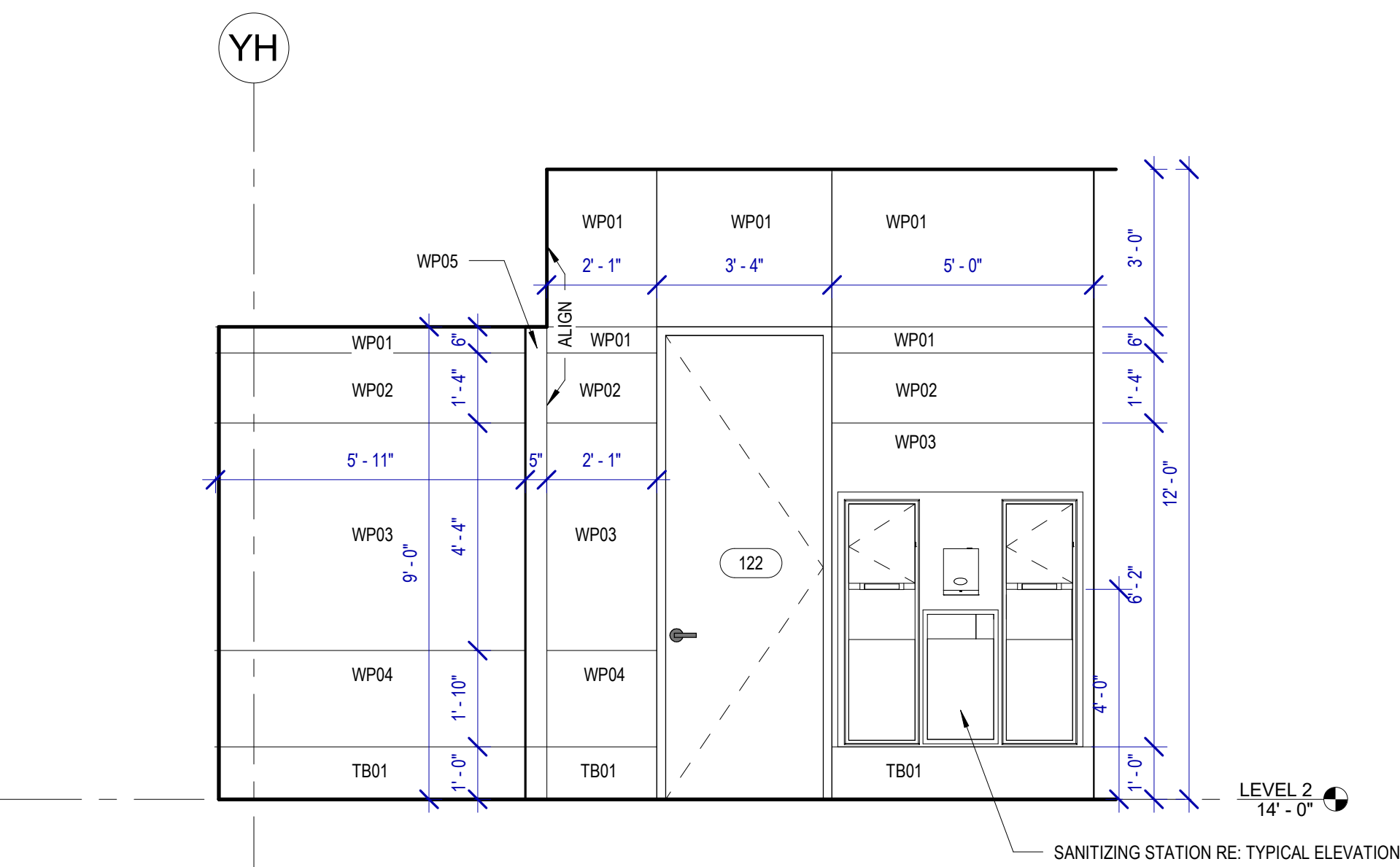
A3 WOMENS 121 C
SCALE: 3/8" = 1'-0"



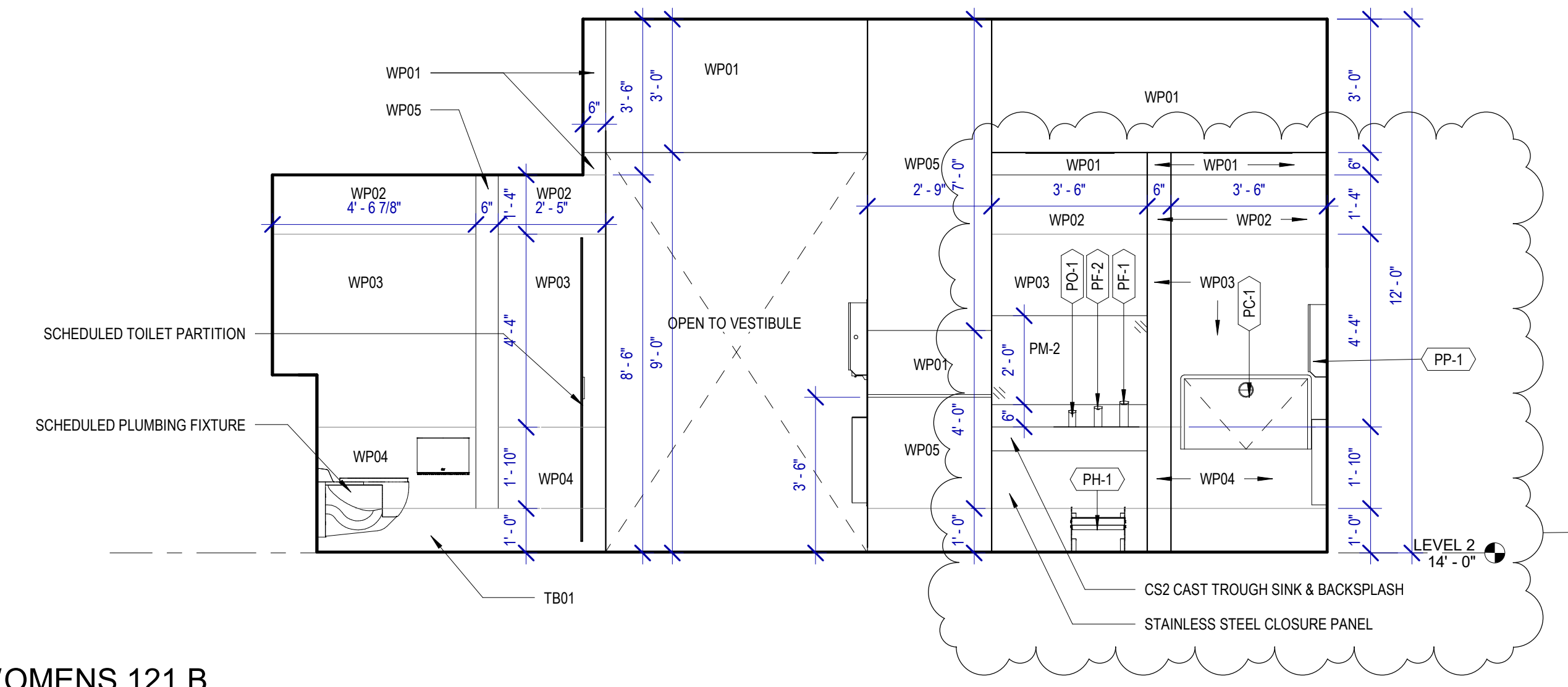
A2 WOMENS 121 VESTIBULE B
SCALE: 3/8" = 1'-0"



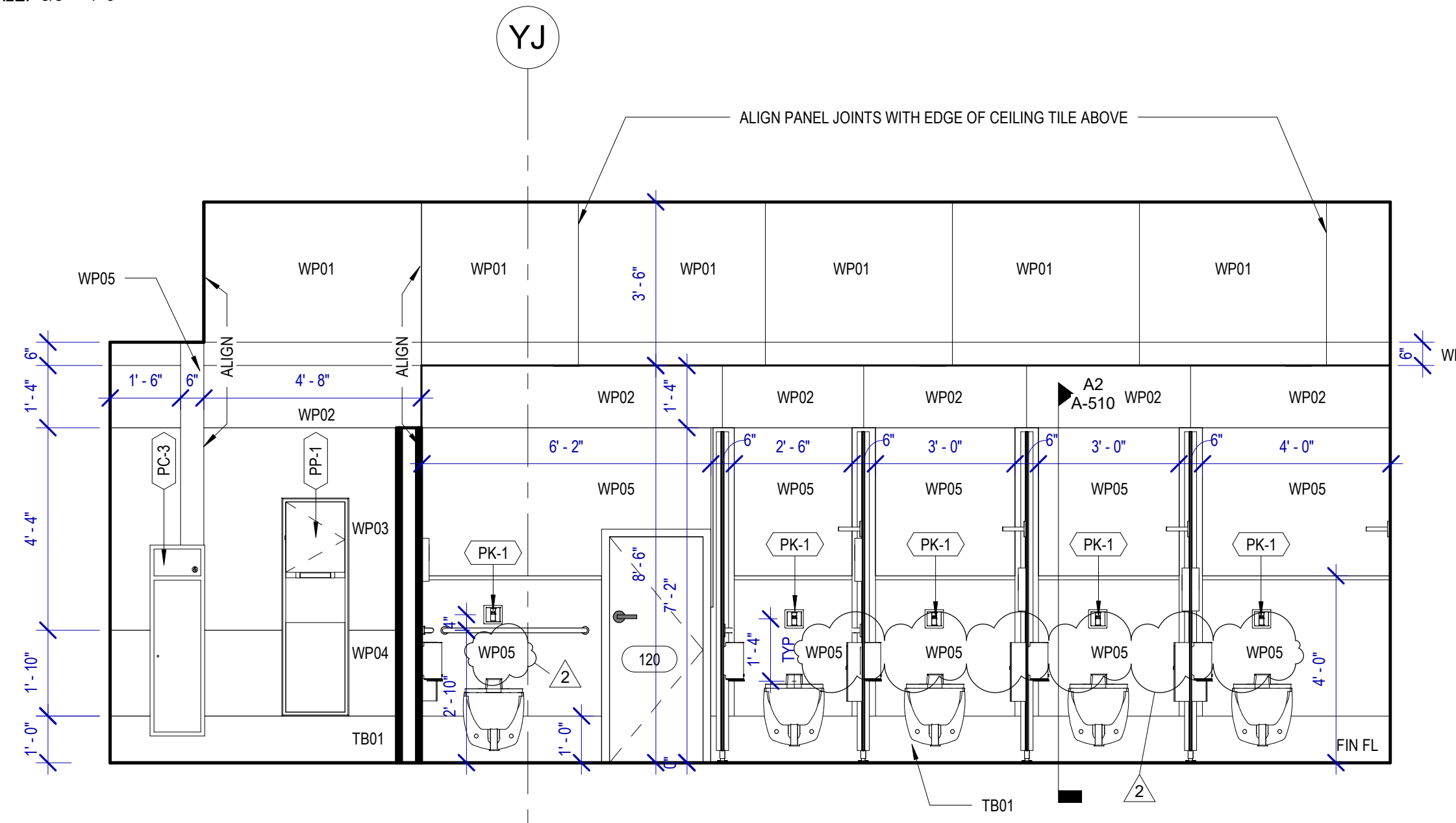
A1 WOMENS 121 VESTIBULE A
SCALE: 3/8" = 1'-0"



B2 WOMENS 121 B
SCALE: 3/8" = 1'-0"



B1 WOMENS 121 A
SCALE: 3/8" = 1'-0"



PLUMBING FIXTURES

- PL-1 THE SPLASH LAB MONOLITH TROUGH SINK TSL MON. CUSTOM
- PL-2 THE SPLASH LAB MONOLITH TROUGH SINK TSL MON. CUSTOM
- PT-1 TOTO WALL MOUNTED TOILET CT708EVG
- PU-1 TOTO WALL MOUNTED URINAL UT104EV
- PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
- PY-1 ZURN MOP SINK 1996-24

TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSL.R.030.CS.H
- PF-2 THE SPLASH LAB RIBBON TSL.R.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PL-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSL.R.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE, 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP N WASH SNW-SS 975B
- PX-1 BOBRICK B-223

INTERIOR ELEVATIONS NOTES

- REFER TO SHEET A600 FOR FINISH LEGEND.
- AT MENS ADA RESTROOMS: DO NOT INSTALL SANITARY NAPKIN DISPOSAL.
- AT MENS ADA RESTROOM: THE TOILET SEAT COVER DISPENSER SHALL BE PLACED UNDER THE GRAB BAR, NEXT TO TOILET ISSUE DISPENSER AND CLOSEST TO BACK WALL, TAKING THE PLACE OF SANITARY NAPKIN DISPOSAL SHOWN IN THE WOMEN LAYOUTS. THE TOP OF SEAT COVER DISPENSER SHALL BE 2 INCHES UNDER THE BOTTOM OF GRAB BAR.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BAORD FOR INSTALLATION OF NEW TILE.
- INSTALL COAT HOOKS IN AMBULATORY AND ADA STALLS AT 4FT. IN ANY OTHER RESTROOM AT 5FT.



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS
PHASE 2

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104
Houston, TX 77003

713.868.3121
www.rdlr.com



HENDERSON
ROGERS
structural engineers

2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

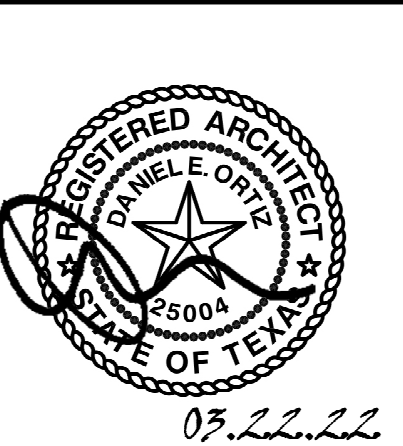
DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

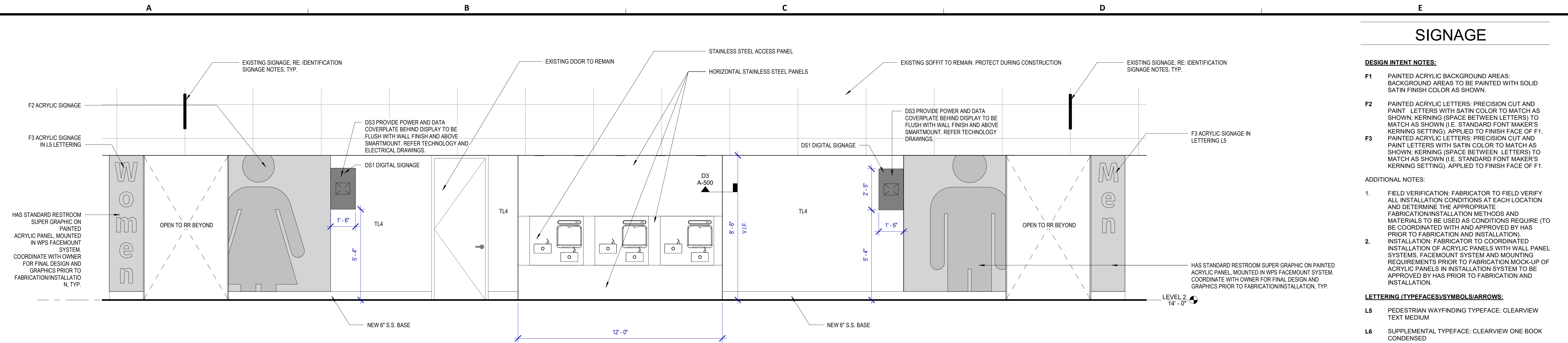
DIRECTOR
of
HOUSTON AIRPORT SYSTEM



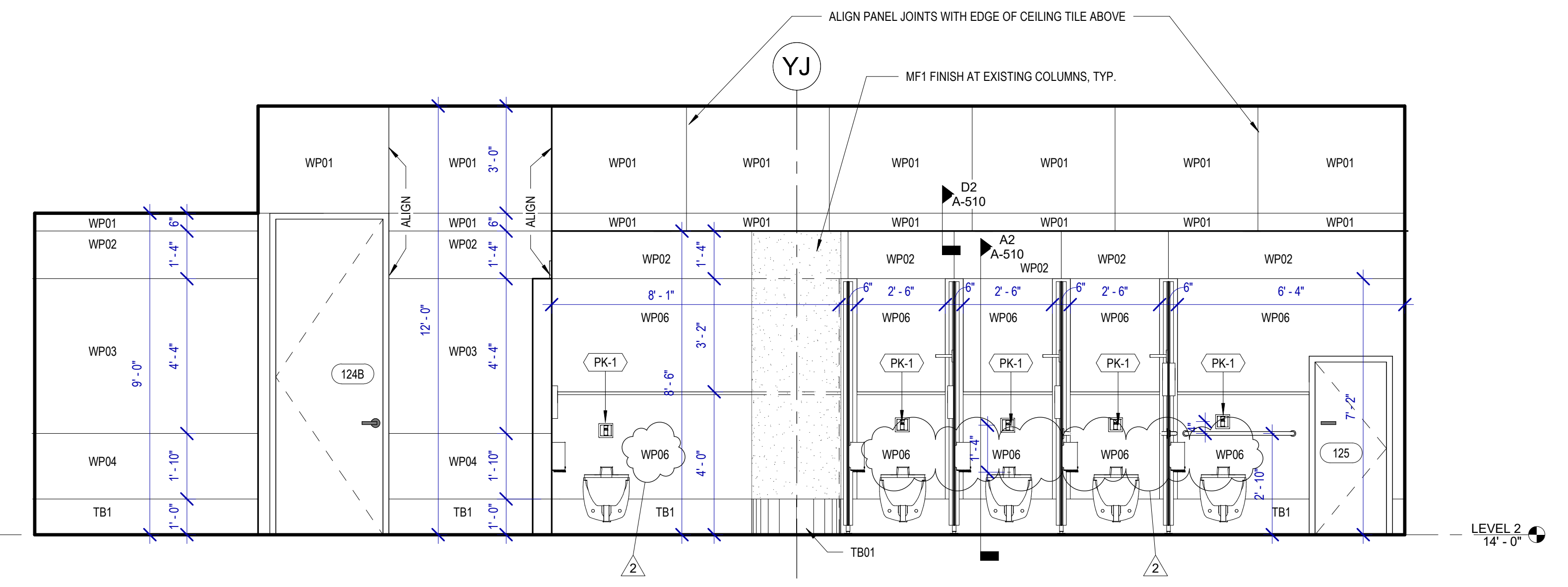
SHEET NAME: INTERIOR ELEVATIONS GATES 20-23

SHEET No. A-422 SCALE: As indicated

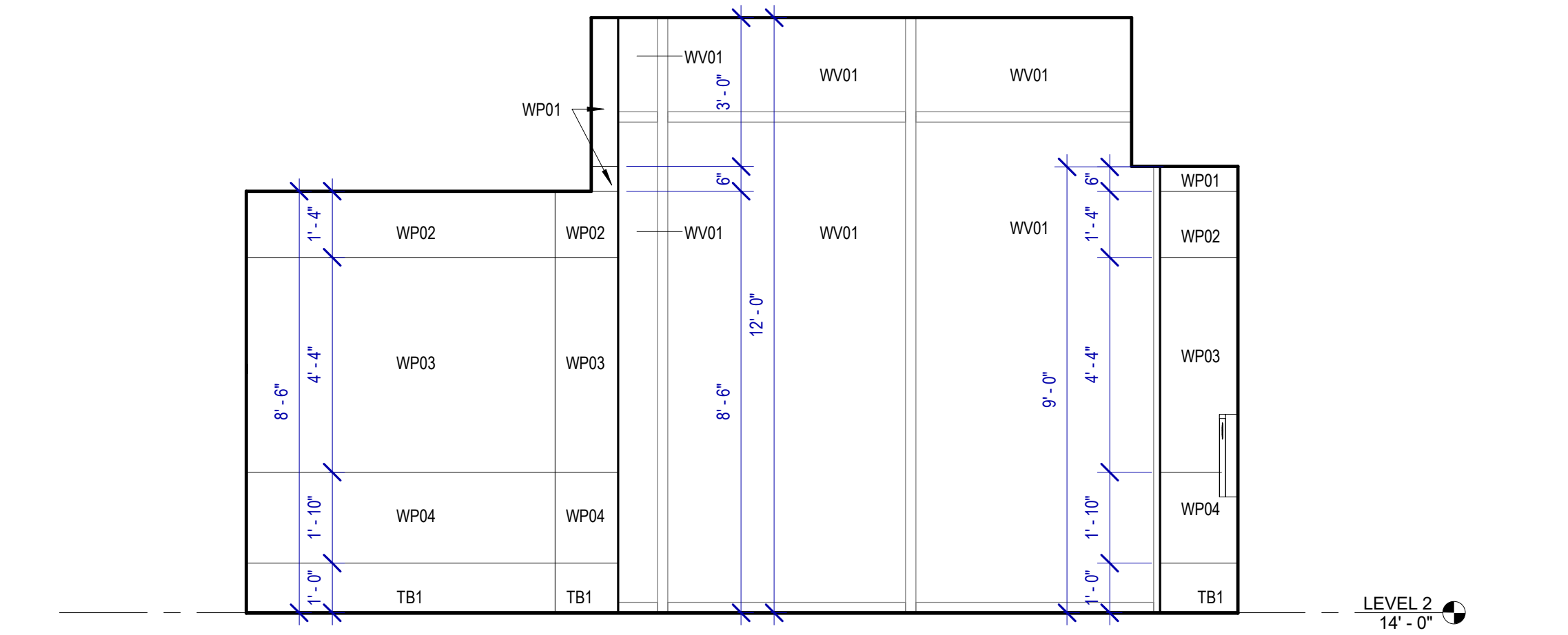
SHEET SIZE: 30"x42" ARCH E1



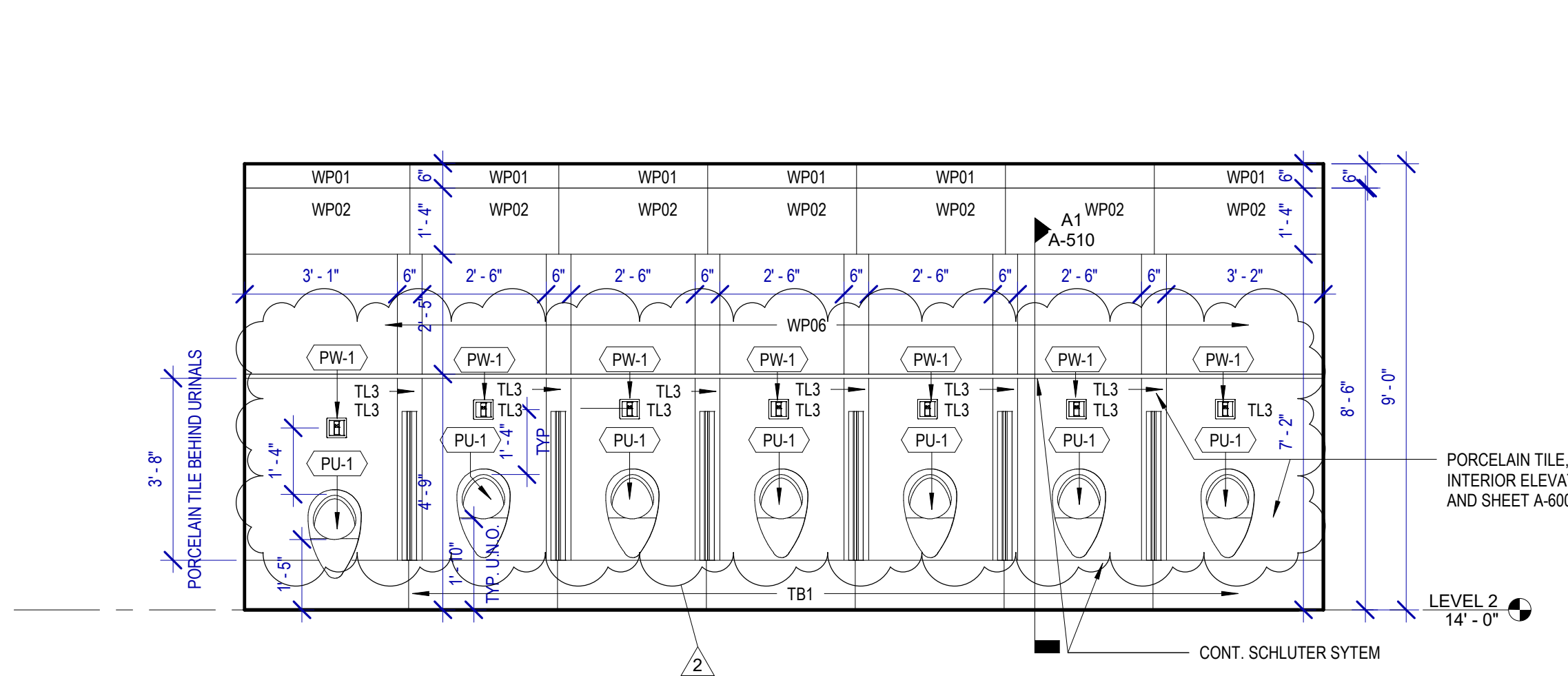
A4 ELEVATION-GATES 20-23 CORRIDOR
SCALE: 3/8" = 1'-0"



A3 MENS 126 A
SCALE: 3/8" = 1'-0"



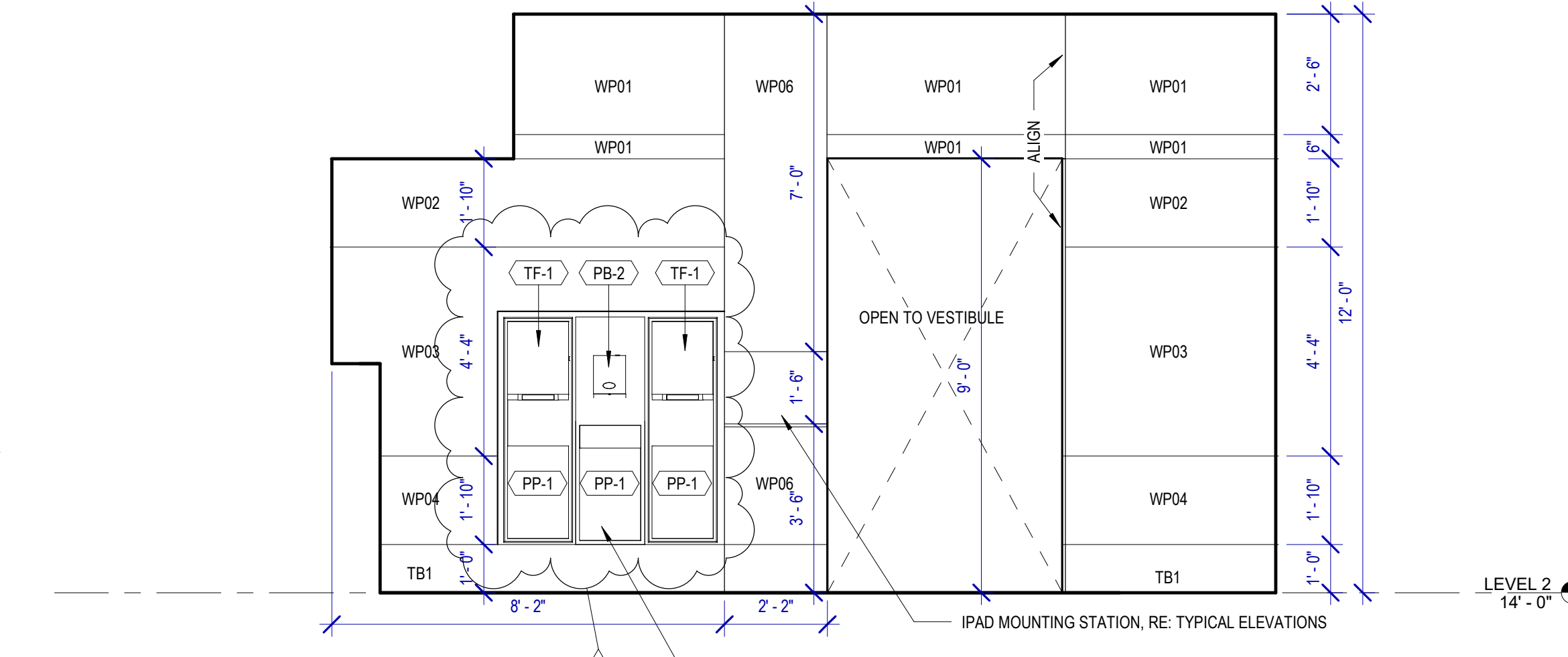
A2 MENS 126 D
SCALE: 3/8" = 1'-0"



A1 MENS 126 B
SCALE: 3/8" = 1'-0"



C2 MENS 126 C
SCALE: 3/8" = 1'-0"



B1 MENS 126 E
SCALE: 3/8" = 1'-0"

TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINED DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON TSLR.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PH-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE, 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP 'N WASH SNW-SS 975B
- PX-1 BOBRICK B-223

PLUMBING FIXTURES

- PL-1 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PL-2 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PT-1 TOTO WALL MOUNTED TOILET CT708EVG
- PU-1 TOTO WALL MOUNTED URINAL UT104EV
- PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
- PY-1 ZURN MOP SINK 1996-24

SIGNAGE

- DESIGN INTENT NOTES:**
- F1 PAINTED ACRYLIC BACKGROUND AREAS: BACKGROUND AREAS TO BE PAINTED WITH SOLID SATIN FINISH COLOR AS SHOWN.
 - F2 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT - LETTERS WITH SATIN COLOR TO MATCH AS SHOWN; KERNING (SPACE BETWEEN LETTERS) TO MATCH AS SHOWN (I.E. STANDARD FONT MAKER'S KERNING SETTING), APPLIED TO FINISH FACE OF F1.
 - F3 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT - LETTERS WITH SATIN COLOR TO MATCH AS SHOWN; KERNING (SPACE BETWEEN LETTERS) TO MATCH AS SHOWN (I.E. STANDARD FONT MAKER'S KERNING SETTING), APPLIED TO FINISH FACE OF F1.
- ADDITIONAL NOTES:**
- FIELD VERIFICATION: FABRICATOR TO FIELD VERIFY ALL INSTALLATION CONDITIONS AT EACH LOCATION AND DETERMINE THE APPROPRIATE FABRICATION/INSTALLATION METHODS AND MATERIALS TO BE USED AS CONDITIONS REQUIRE (TO BE COORDINATED WITH AND APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION).
 - INSTALLATION: FABRICATOR TO COORDINATED INSTALLATION OF ACRYLIC PANELS WITH WALL PANEL SYSTEMS: FACE MOUNT SYSTEM AND INSTALLATION REQUIREMENTS PRIOR TO FABRICATION MOCK-UP OF ACRYLIC PANELS IN INSTALLATION SYSTEM TO BE APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION.
- LETTERING (TYPEFACES/SYMBOLS/ARROWS):**
- L5 PEDESTRIAN WAYFINDING TYPEFACE: CLEARVIEW TEXT MEDIUM
 - L6 SUPPLEMENTAL TYPEFACE: CLEARVIEW ONE BOOK CONDENSED
 - S1 ARROW(S): USE ONLY OFFICIAL HAS WAYFINDING ARROWS
 - S2 UNIVERSAL SYMBOLS: USE ONLY OFFICIAL HAS WAYFINDING SYMBOLS
 - W1 WATERMARK GRAPHIC: USE ONLY OFFICIAL HAS "GLOBE" VECTOR ART (ART CAN BE EXTRACTED FROM DIGITAL VERSION OF THIS DRAWING)
- COLORS:**
NOTES: "D" = DIGITALLY PRINTED COLORS ON 3M 7725-20 WHITE UNLESS OTHERWISE NOTED; "T" = MATTHEWS ACRYLIC POLYURETHANE (MAP) PAINT (OR EQUAL) SATIN FINISH; "V" = 3M VINYL FILMS (OR EQUAL); "T" = TACTILE
- V4.1 WHITE: 3M 7725-20 WHITE OPAQUE
 - D5 DARK GRAY: PMS 433C
 - D7.2 MED. GRAY: PMS 431C
 - D17 C BLUE: PMS 300C
 - D23 TRAIN YELLOW: PMS 3965C
 - D6 MED. DARK GRAY: PMS 432C
 - D18 C WATERMARK: PMS 294C
 - D24 TRAIN WATERMARK: PMS 3975C
- DIGITAL SIGNAGE:**
- DS1 SMART RESTROOM DIGITAL SIGNAGE: 32" DISPLAY. REFER TO ELECTRICAL AND TELECOM DRAWINGS.
 - DS3 PROVIDE POWER OUTLET AND DATA OUTLETS. REFER TO ELECTRICAL AND TELECOM DRAWINGS.
- IDENTIFICATION SIGNAGE:**
- EXISTING ROOM IDENTIFICATION AND WAYFINDING SIGNAGE TO BE SALVAGED PRIOR TO CONSTRUCTION FOR REINSTALLATION, INCLUDING, BUT NOT LIMITED TO, ROOM SIGNS AND BLADE/FIN SIGNS.
 - ALL EXISTING SIGNAGE REMOVED TO BE REVIEWED BY HAS AND THE WAYFINDING DESIGN CONSULTANTS FOR ANY CHANGES OR UPDATES MADE TO THE HAS STANDARDS AND GRAPHICS.
 - NEW SIGNAGE REQUIRED PER OWNER TO BE COORDINATED BY THE CONTRACTOR. ALL FINAL DETAILS AND SPECIFICATIONS TO BE PROVIDED BY THE CONTRACTOR/FABRICATOR/INSTALLER WITHIN THEIR FINAL APPROVED FABRICATION-READY SHOP DRAWINGS.
 - INSTALLATION OF EXISTING AND NEW SIGNAGE TO BE PER ALL APPLICABLE CODES, TDLR/ADA STANDARDS, AND HAS STANDARDS.

7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800 Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

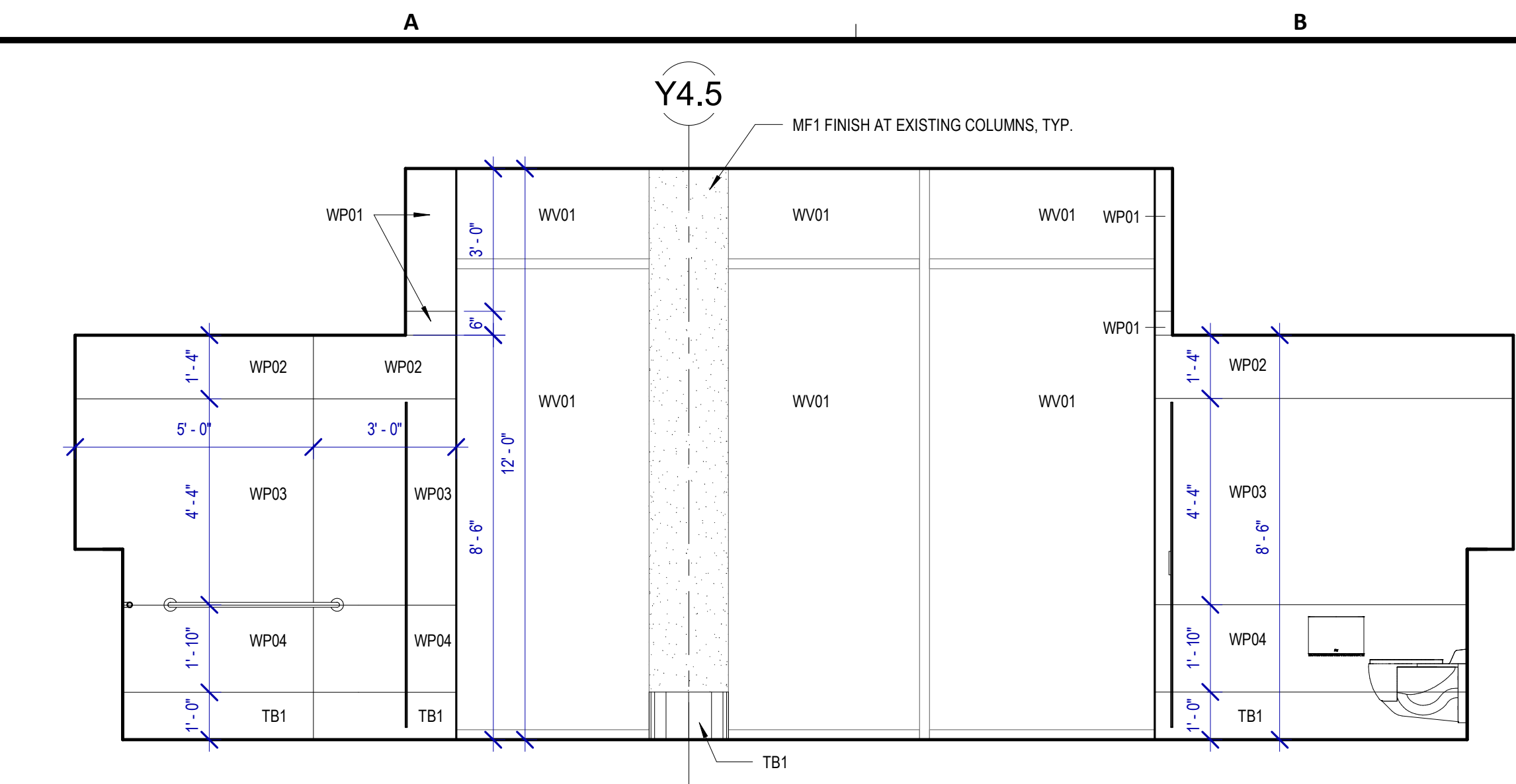
Reviewed/Approval Category
IFB
ISSUED FOR BIDDING

REGISTERED ARCHITECT
DANIEL ORTIZ
STATE OF TEXAS
03.22.22

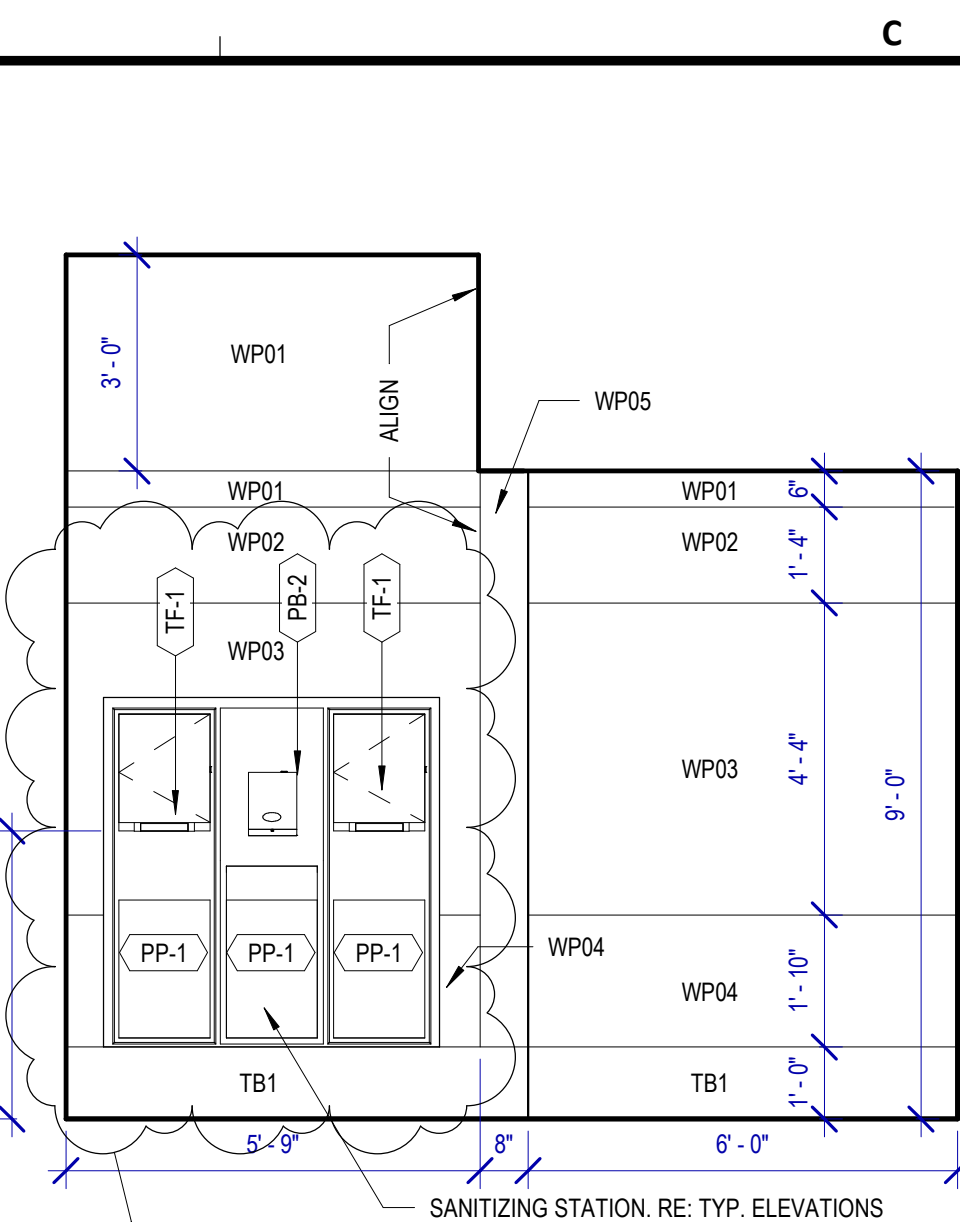
SHEET NAME: INTERIOR ELEVATIONS GATES 20-23
SHEET No. A-423 SCALE: As indicated
SHEET SIZE: 30"x42" ARCH E1

INTERIOR ELEVATIONS NOTES

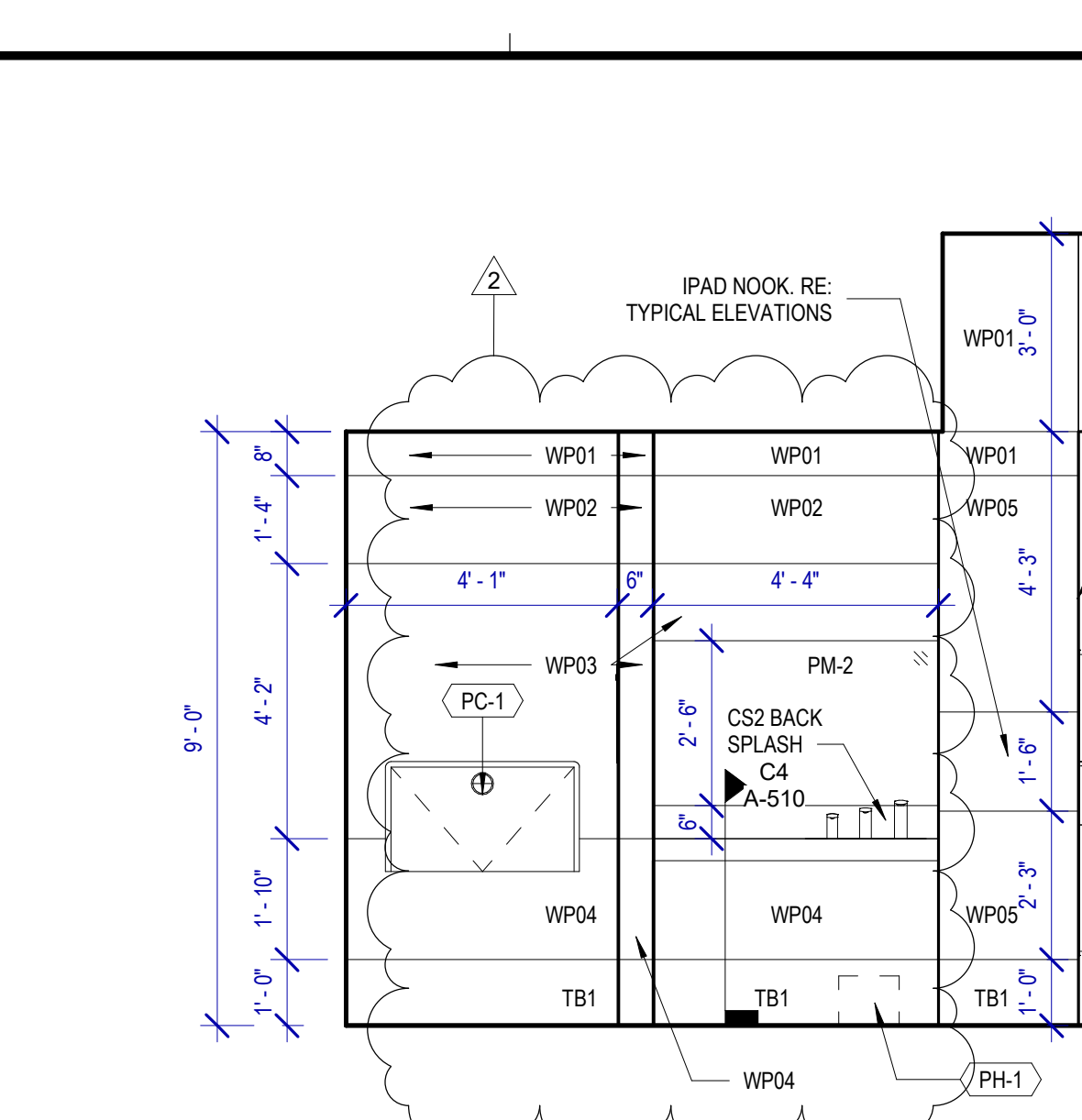
- REFER TO SHEET A600 FOR FINISH LEGEND.
- AT MENS ADA RESTROOMS: DO NOT INSTALL SANITARY NAPKIN DISPOSAL.
- AT MENS ADA RESTROOM: THE TOILET SEAT COVER DISPENSER SHALL BE PLACED UNDER THE GRAB BAR, NEXT TO TOILET TISSUE DISPENSER AND CLOSEST TO BACK WALL TAKING THE PLACE OF SANITARY NAPKIN DISPOSAL SHOWN IN THE WOMEN LAYOUTS. THE TOP OF SEAT COVER DISPENSER SHALL BE 2 INCHES UNDER THE BOTTOM OF GRAB BAR.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
- INSTALL COAT HOOKS IN AMBULATORY AND ADA STALLS AT 4FT. IN ANY OTHER RESTROOM AT 5FT.



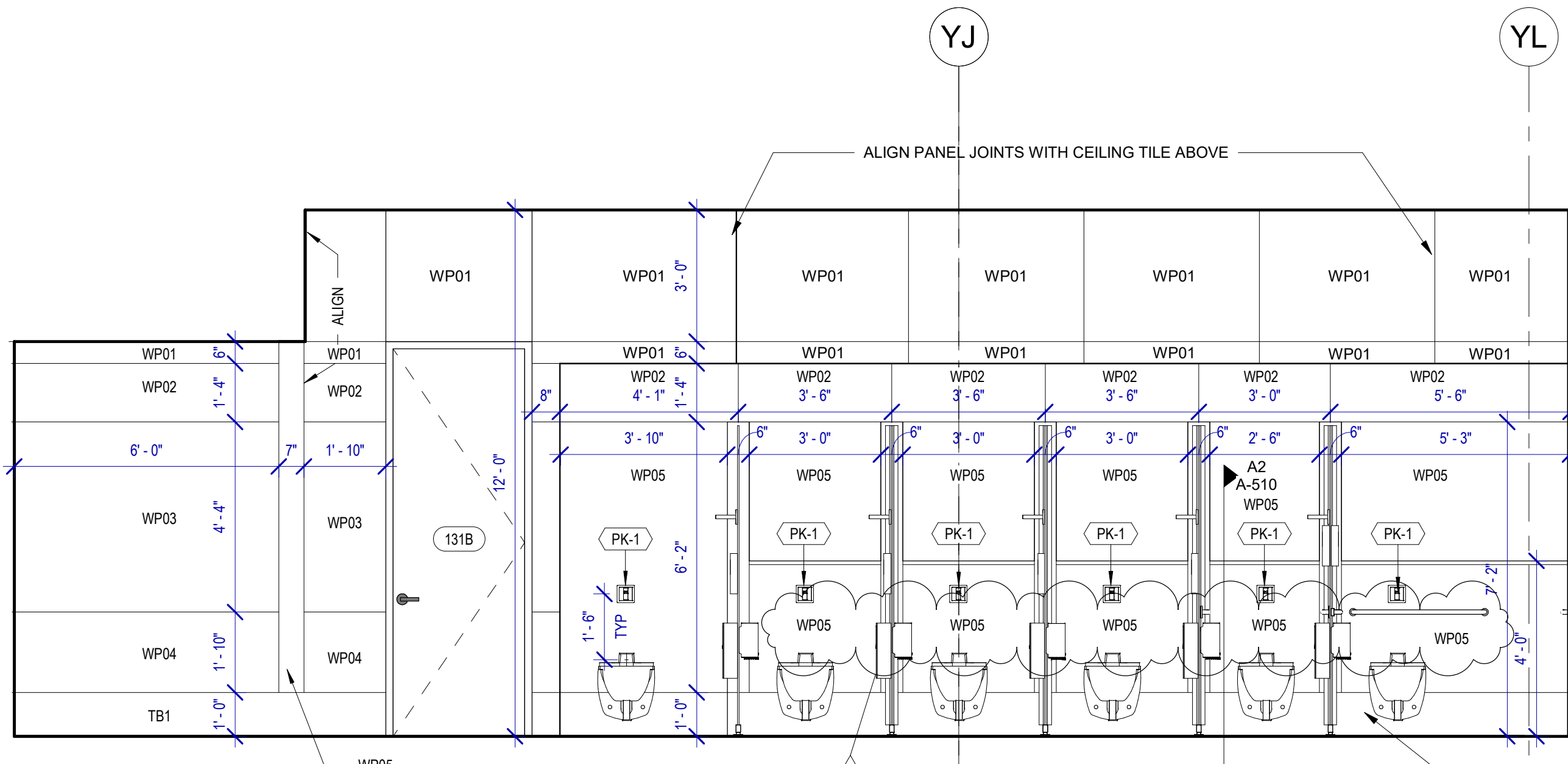
A4 WOMENS 133 D
SCALE: 3/8" = 1'-0"



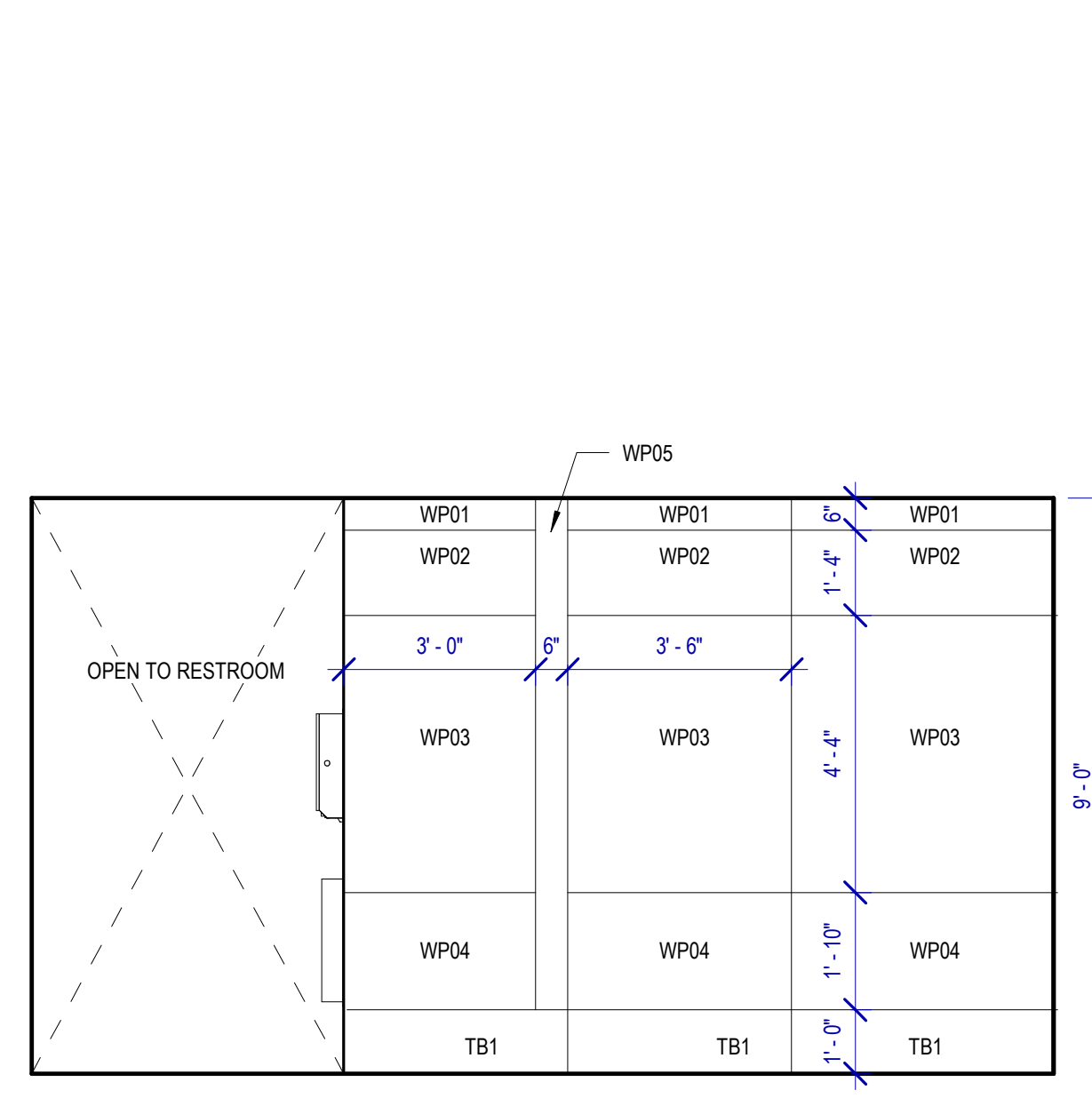
C4 WOMENS 133 G
SCALE: 3/8" = 1'-0"



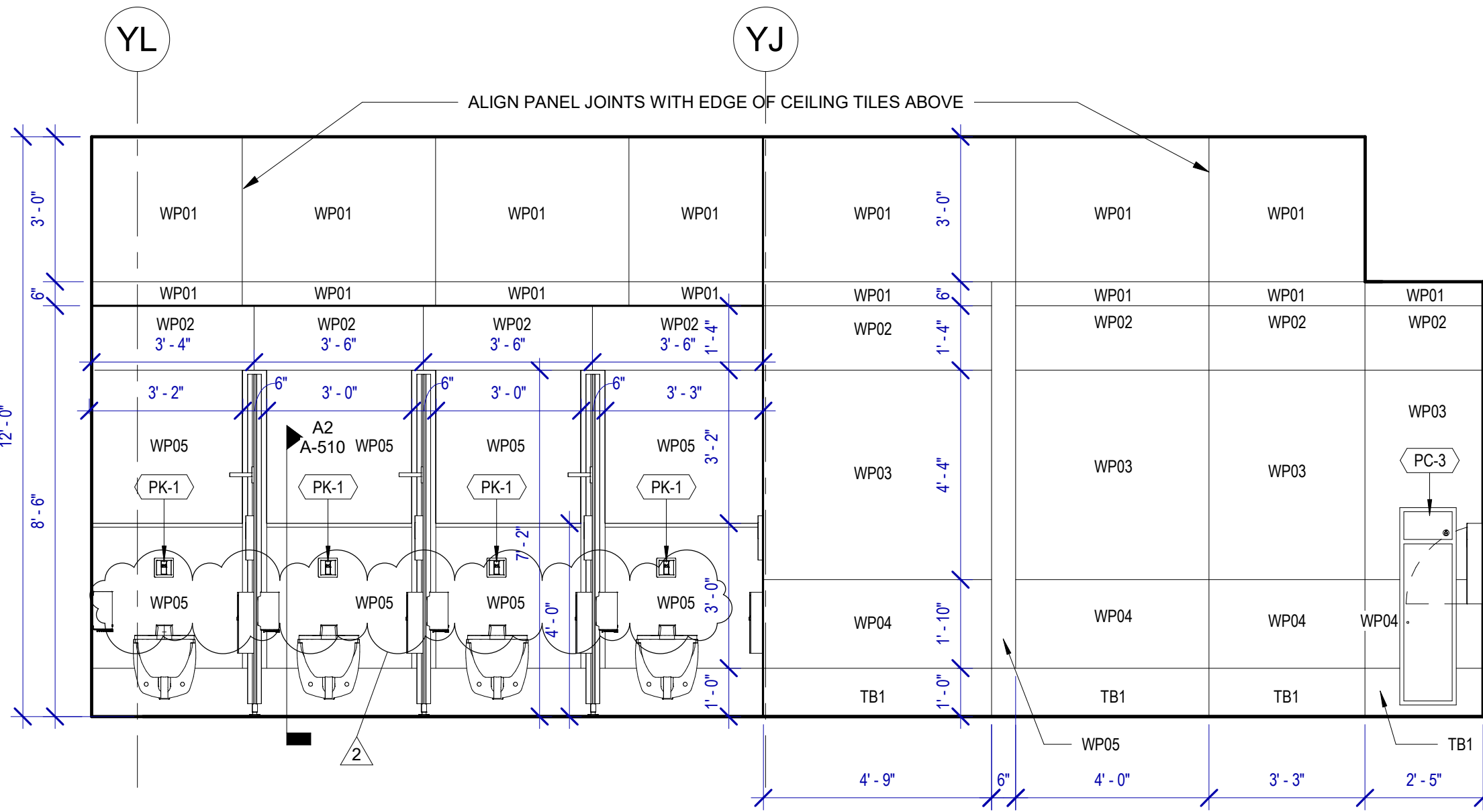
D4 WOMENS 133 A
SCALE: 3/8" = 1'-0"



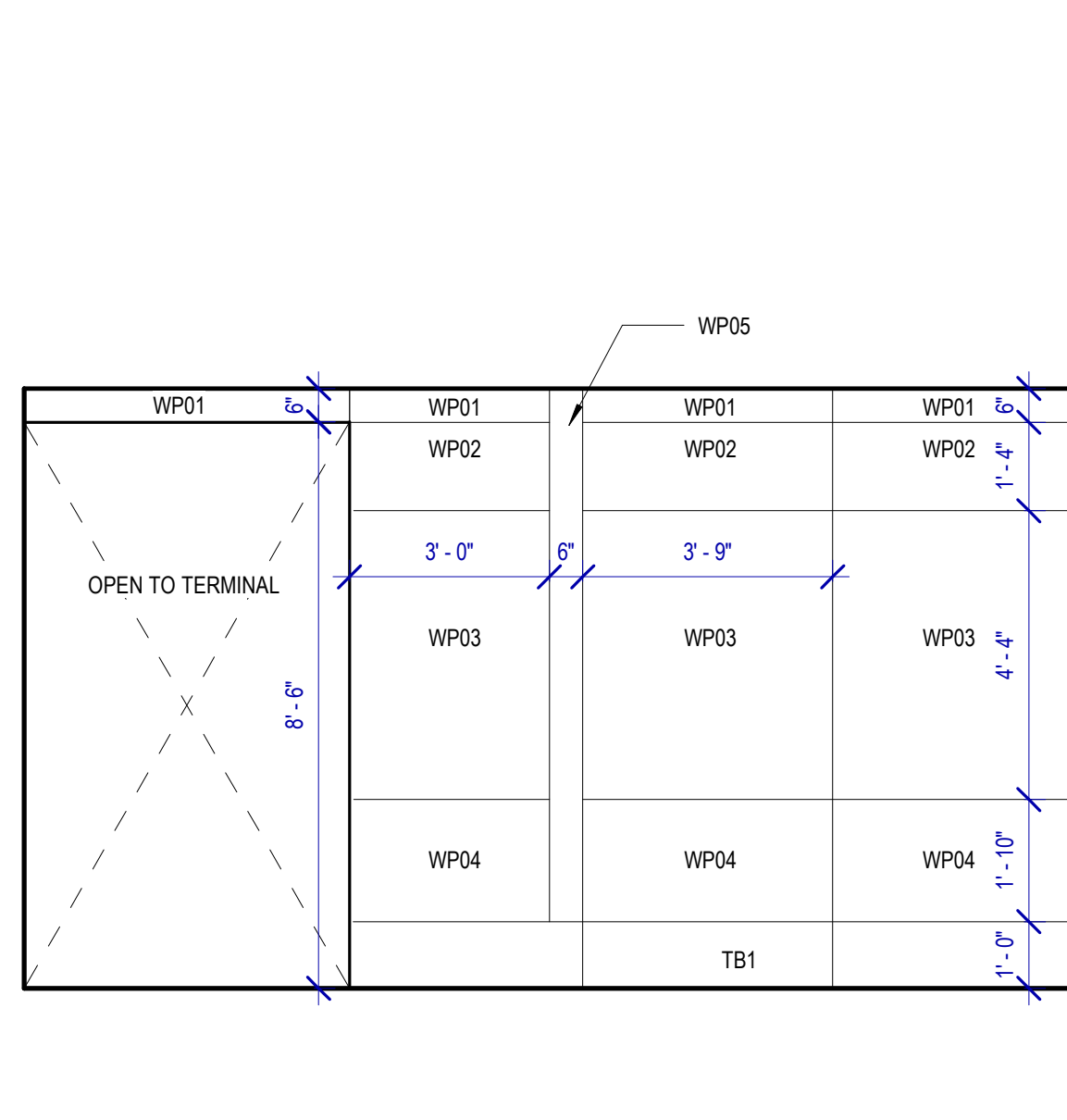
A3 WOMENS 133 C
SCALE: 3/8" = 1'-0"



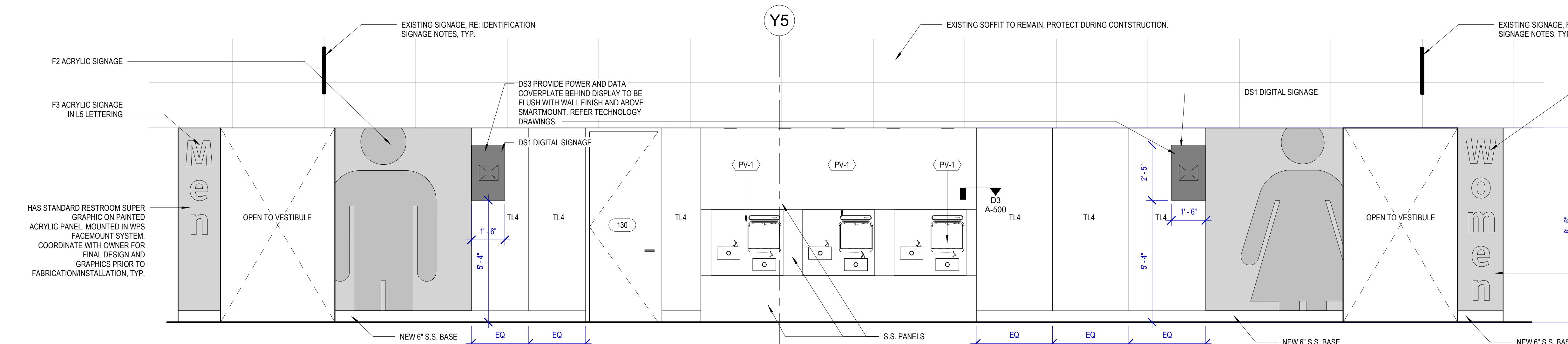
C3 WOMENS 133 E
SCALE: 3/8" = 1'-0"



A2 WOMENS 133 B
SCALE: 3/8" = 1'-0"



C2 WOMENS 133 F
SCALE: 3/8" = 1'-0"



A1 ELEVATION - TERMINAL CORRIDOR GATES 24-27
SCALE: 3/8" = 1'-0"

SIGNAGE

DESIGN INTENT NOTES:

- F1 PAINTED ACRYLIC BACKGROUND AREAS: BACKGROUND AREAS TO BE PAINTED WITH SOLID SATIN FINISH COLOR AS SHOWN.
- F2 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT. LETTERS WITH SATIN COLOR TO MATCH AS SHOWN; KERNING (SPACE BETWEEN LETTERS) TO MATCH AS SHOWN (I.E. STANDARD FONT MAKER'S KERNING SETTING). APPLIED TO FINISH FACE OF F1.
- F3 PAINTED ACRYLIC LETTERS: PRECISION CUT AND PAINT. LETTERS WITH SATIN COLOR TO MATCH AS SHOWN; KERNING (SPACE BETWEEN LETTERS) TO MATCH AS SHOWN (I.E. STANDARD FONT MAKER'S KERNING SETTING). APPLIED TO FINISH FACE OF F1.

ADDITIONAL NOTES:

- FIELD VERIFICATION: FABRICATOR TO FIELD VERIFY ALL INSTALLATION CONDITIONS AT EACH LOCATION AND DETERMINE THE APPROPRIATE FABRICATION/INSTALLATION METHODS AND MATERIALS TO BE USED AS CONDITIONS REQUIRE (TO BE COORDINATED WITH AND APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION).
- INSTALLATION: FABRICATOR TO COORDINATE INSTALLATION OF ACRYLIC PANELS WITH WALL PANEL SYSTEMS, FACEMOUNT SYSTEM AND MOUNTING REQUIREMENTS PRIOR TO FABRICATION/INSTALLATION. INSTALLATION SYSTEM TO BE APPROVED BY HAS PRIOR TO FABRICATION AND INSTALLATION.

LETTERING (TYPEFACES)/SYMBOLS/ARROWS:

- L5 PEDESTRIAN WAYFINDING TYPEFACE: CLEARVIEW TEXT MEDIUM
- L6 SUPPLEMENTAL TYPEFACE: CLEARVIEW ONE BOOK CONDENSED
- S1 ARROW(S): USE ONLY OFFICIAL HAS WAYFINDING ARROWS
- S2 UNIVERSAL SYMBOLS: USE ONLY OFFICIAL HAS WAYFINDING SYMBOLS
- W1 WATERMARK GRAPHIC: USE ONLY OFFICIAL HAS "GLOBE" VECTOR ART (ART CAN BE EXTRACTED FROM DIGITAL VERSION OF THIS DRAWING)

COLORS:

- NOTES: "3" = DIGITALLY PRINTED COLORS ON 3M 7725-20 WHITE UNLESS OTHERWISE NOTED; "PP" = MATTHEWS ACRYLIC POLYURETHANE (MAP) PAINT (OR EQUAL), SATIN FINISH; "V" = 3M VINYL FILMS (OR EQUAL); "T" = TACTILE
- V4.1 WHITE: 3M 7725-20 WHITE OPAQUE
- D5 DARK GRAY: PMS 433C
- D7.2 MED. GRAY: PMS 431C
- D17 C BLUE: PMS 300C
- D23 TRAIN YELLOW: PMS 3965C
- D6 MED. DARK GRAY: PMS 432C
- D8 C WATERMARK: PMS 294C
- D24 TRAIN WATERMARK: PMS 3973C

DIGITAL SIGNAGE:

- DS1 SMART RESTROOM DIGITAL SIGNAGE: 32" DISPLAY. REFER TO ELECTRICAL AND TELECOM DRAWINGS.
- DS3 PROVIDE POWER OUTLET AND DATA OUTLETS. REFER TO ELECTRICAL AND TELECOM DRAWINGS.

IDENTIFICATION SIGNAGE:

- EXISTING ROOM IDENTIFICATION AND WAYFINDING SIGNAGE TO BE SALVAGED PRIOR TO CONSTRUCTION FOR REINSTALLATION, INCLUDING, BUT NOT LIMITED TO, ROOM SIGNS AND BLADE/FIN SIGNS. ALL EXISTING SIGNAGE REMOVED TO BE REVIEWED BY HAS AND THE WAYFINDING DESIGN CONSULTANTS FOR ANY CHANGES OR UPDATES MADE TO THE HAS STANDARDS AND GRAPHICS.
- NEW SIGNAGE REQUIRED PER OWNER TO BE COORDINATED BY THE CONTRACTOR. ALL FINAL DETAILING AND SPECIFICATIONS TO BE PROVIDED BY THE CONTRACTOR/FABRICATOR/INSTALLER WITHIN THEIR FINAL APPROVED FABRICATION/READY SHOP DRAWINGS.
- INSTALLATION OF EXISTING AND NEW SIGNAGE TO BE PER ALL APPLICABLE CODES, TOURADA STANDARDS, AND HAS STANDARDS.

TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PE-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
- PF-2 THE SPLASH LAB RIBBON TSLR.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PH-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE, 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TU3LN
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP-N-WASH SNW-SS 975B
- PX-1 BOBRICK B-223

PLUMBING FIXTURES

- PL-1 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PL-2 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PT-1 TOTO WALL MOUNTED TOILET CT708EVB
- PU-1 TOTO WALL MOUNTED URINAL UT104EV
- PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
- PY-1 ZURN MOP SINK 1996-24

INTERIOR ELEVATIONS NOTES

- REFER TO SHEET A600 FOR FINISH LEGEND.
- AT MENS ADA RESTROOMS: DO NOT INSTALL SANITARY NAPKIN DISPOSAL.
- AT MENS ADA RESTROOMS: THE TOILET SEAT COVER DISPENSER SHALL BE PLACED UNDER THE GRAB BAR, NEXT TO TOILET TISSUE DISPENSER AND CLOSEST TO BACK WALL. TAKING THE PLACE OF SANITARY NAPKIN DISPOSAL SHOWN IN THE WOMEN LAYOUTS, THE TOP OF SEAT COVER DISPENSER SHALL BE 2 INCHES UNDER THE BOTTOM OF GRAB BAR.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
- INSTALL COAT HOOKS IN AMBULATORY AND ADA STALLS AT 4FT. IN ANY OTHER RESTROOM AT 9FT.



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects

ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

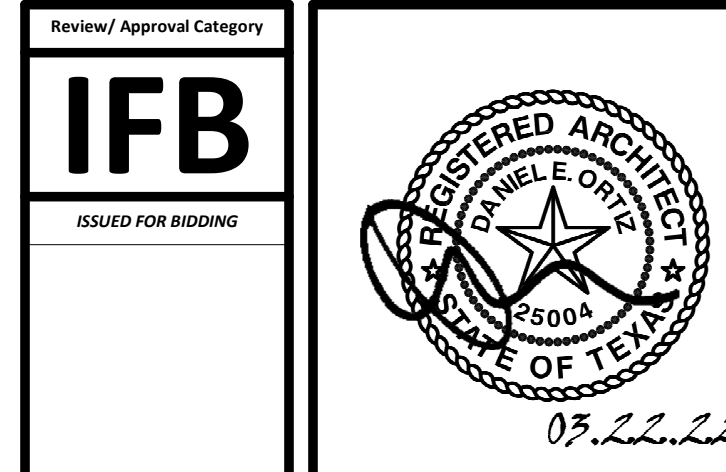
DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM



SHEET NAME: INTERIOR ELEVATIONS GATES 24-27

SHEET No. A-425 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects

ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



HENDERSON ROGERS

structural engineers

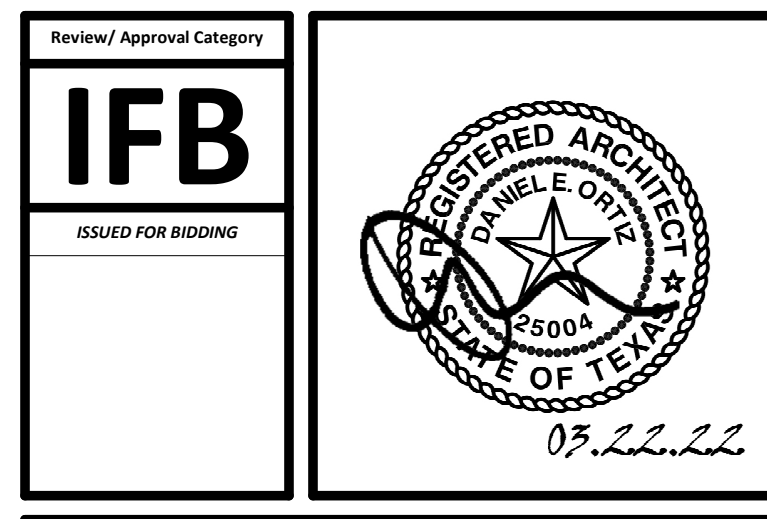
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 02.11.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM



SHEET NAME: INTERIOR ELEVATIONS GATES 24-27
SHEET No. A-426 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

TOILET ACCESSORIES

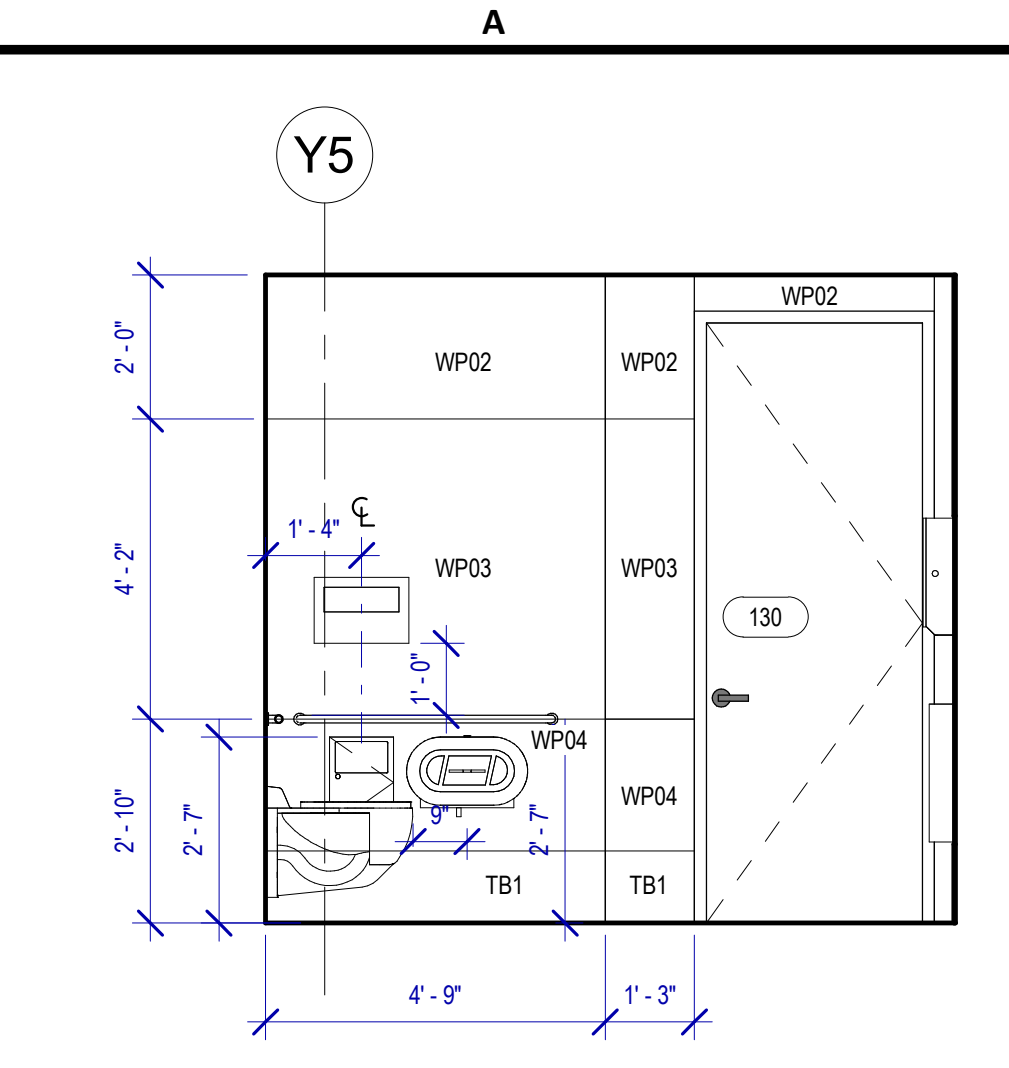
- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
- PB-2 TORK HAND SANITIZER 466100
- PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
- PC-2 KOALA CARE CHILD SEAT KB102-00
- PC-3 BRADLEY WASTE RECEPTACLE 315-35
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 THE SPLASH LAB RIBBON HAND DRYER TSL R.030.CS.H
- PF-2 THE SPLASH LAB RIBBON TSL R.020.CS.H
- PG-1 BOBRICK 42" GRAB BAR B-5806
- PG-2 BOBRICK 36" GRAB BAR B-5806
- PI-1 TORK TOILET TISSUE DISPENSER 465500
- PJ-1 CARVART COAT HOOK
- PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
- PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
- PL-3 HEIGHT ADJUSTABLE WASH BIN
- PM-1 CARVART FRAMELESS LED MIRROR
- PM-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSL R.010.CS.H
- PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
- PP-2 BOBRICK WASTE RECEPTACLE B-3644
- PP-3 WASTE RECEPTACLE, 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
- PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
- PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
- PH-1 STEP 'N WASH SNW-SS 975B
- PX-1 BOBRICK B-223

PLUMBING FIXTURES

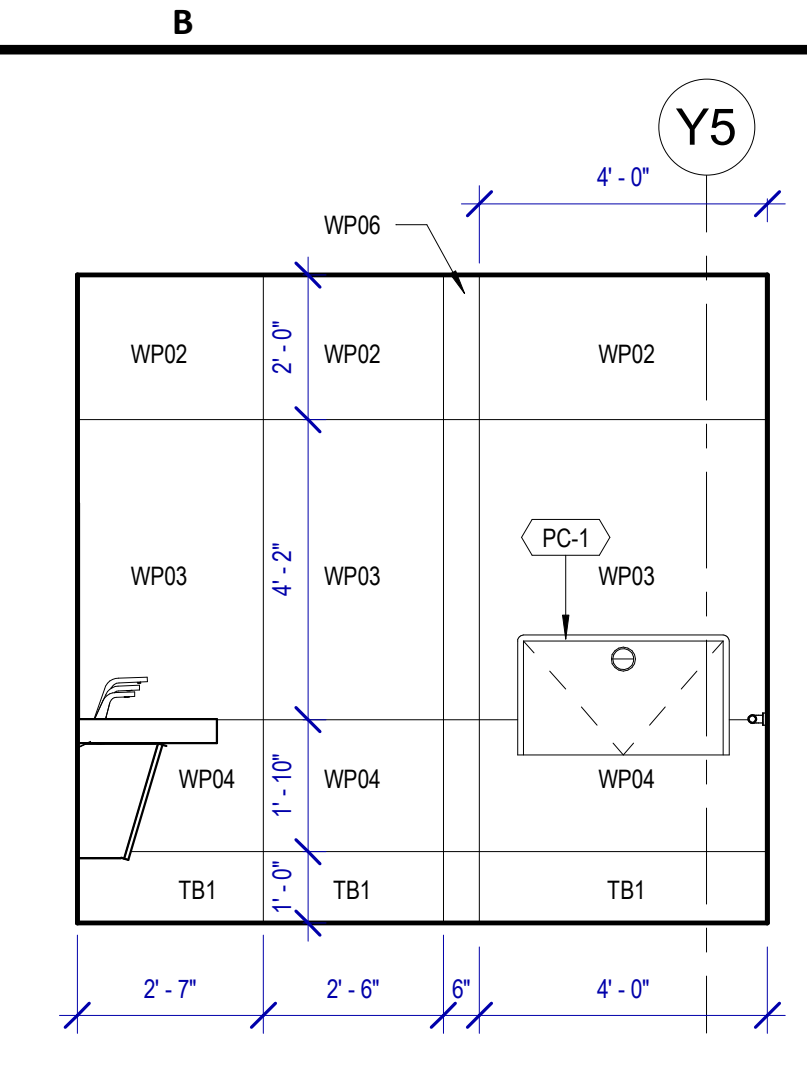
- PL-1 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PL-2 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
- PT-1 TOTO WALL MOUNTED TOILET CT708EVG
- PU-1 TOTO WALL MOUNTED URINAL UT104EV
- PV-1 HALSEY TAYLOR RE: MATERIAL LEGEND
- PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
- PY-1 ZURN MOP SINK 1996-24

INTERIOR ELEVATIONS NOTES

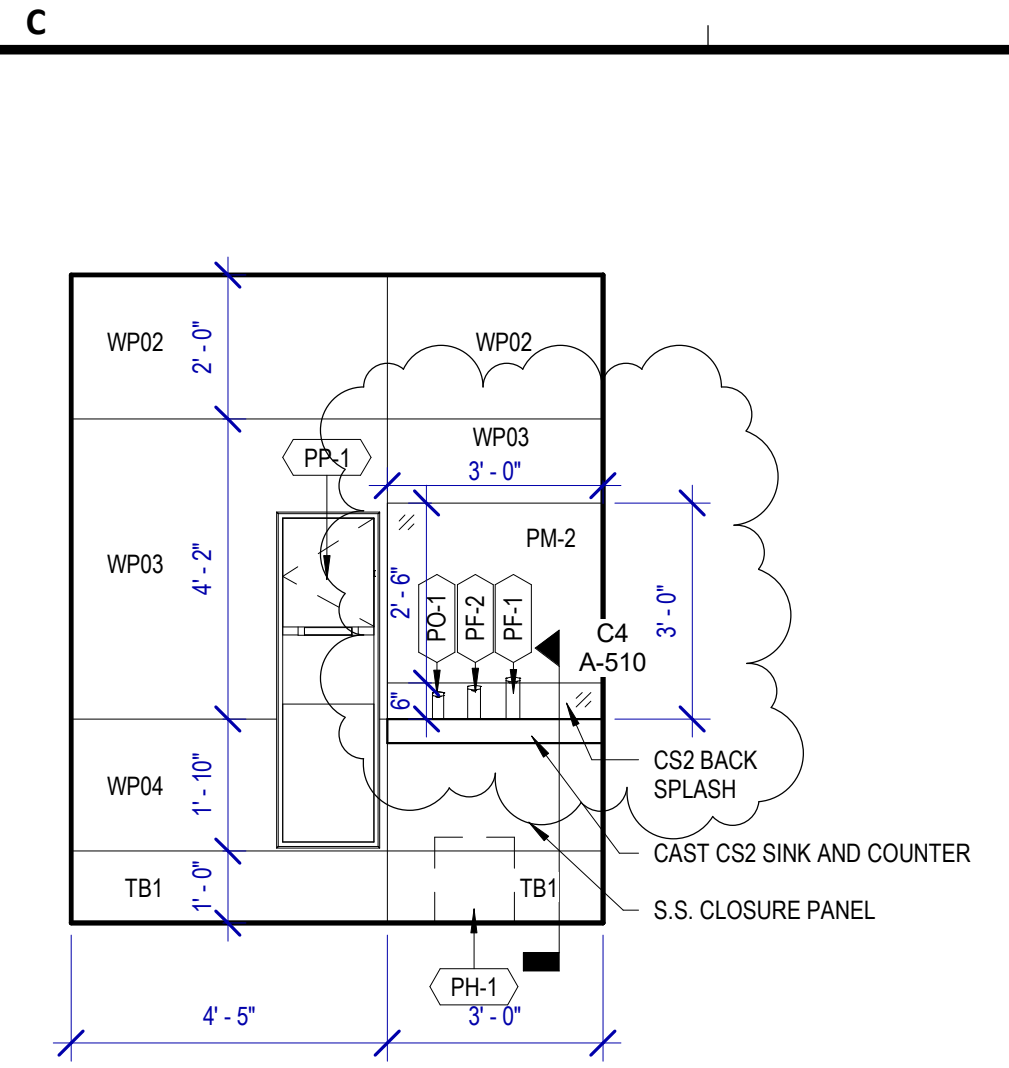
- REFER TO SHEET A600 FOR FINISH LEGEND.
- AT MENS ADA RESTROOMS: DO NOT INSTALL SANITARY NAPKIN DISPOSAL.
- AT MENS ADA RESTROOM: THE TOILET SEAT COVER DISPENSER SHALL BE PLACED UNDER THE GRAB BAR, NEXT TO TOILET TISSUE DISPENSER AND CLOSEST TO BACK WALL, TAKING THE PLACE OF SANITARY NAPKIN DISPOSAL SHOWN IN THE WOMEN LAYOUTS. THE TOP OF SEAT COVER DISPENSER SHALL BE 2 INCHES UNDER THE BOTTOM OF GRAB BAR.
- ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
- PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
- INSTALL COAT HOOKS IN AMBULATORY AND ADA STALLS AT 4FT. IN ANY OTHER RESTROOM AT 5FT.



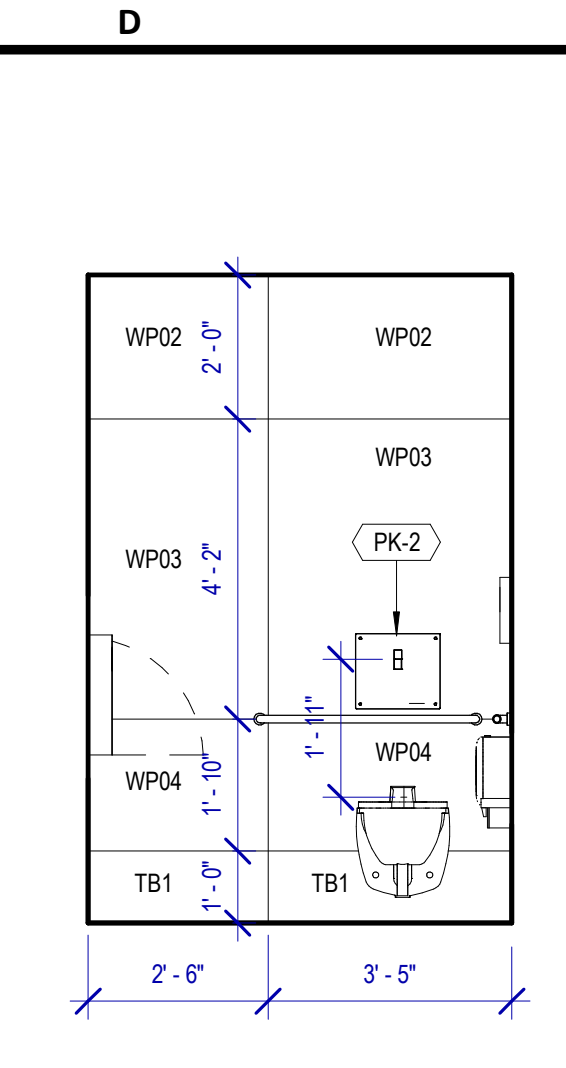
A4 ASSISTED 130 D
SCALE: 3/8" = 1'-0"



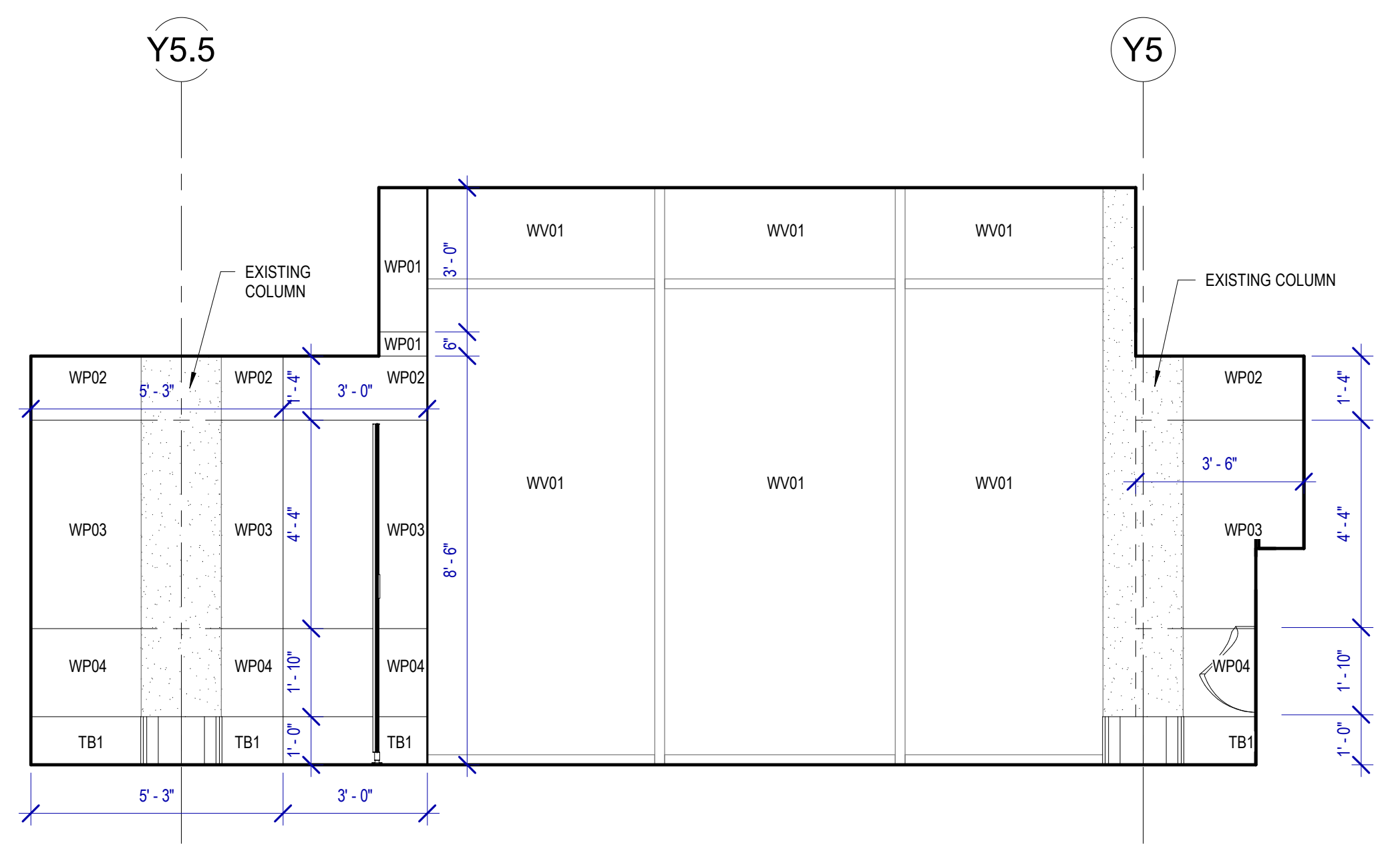
B4 ASSISTED 130 C
SCALE: 3/8" = 1'-0"



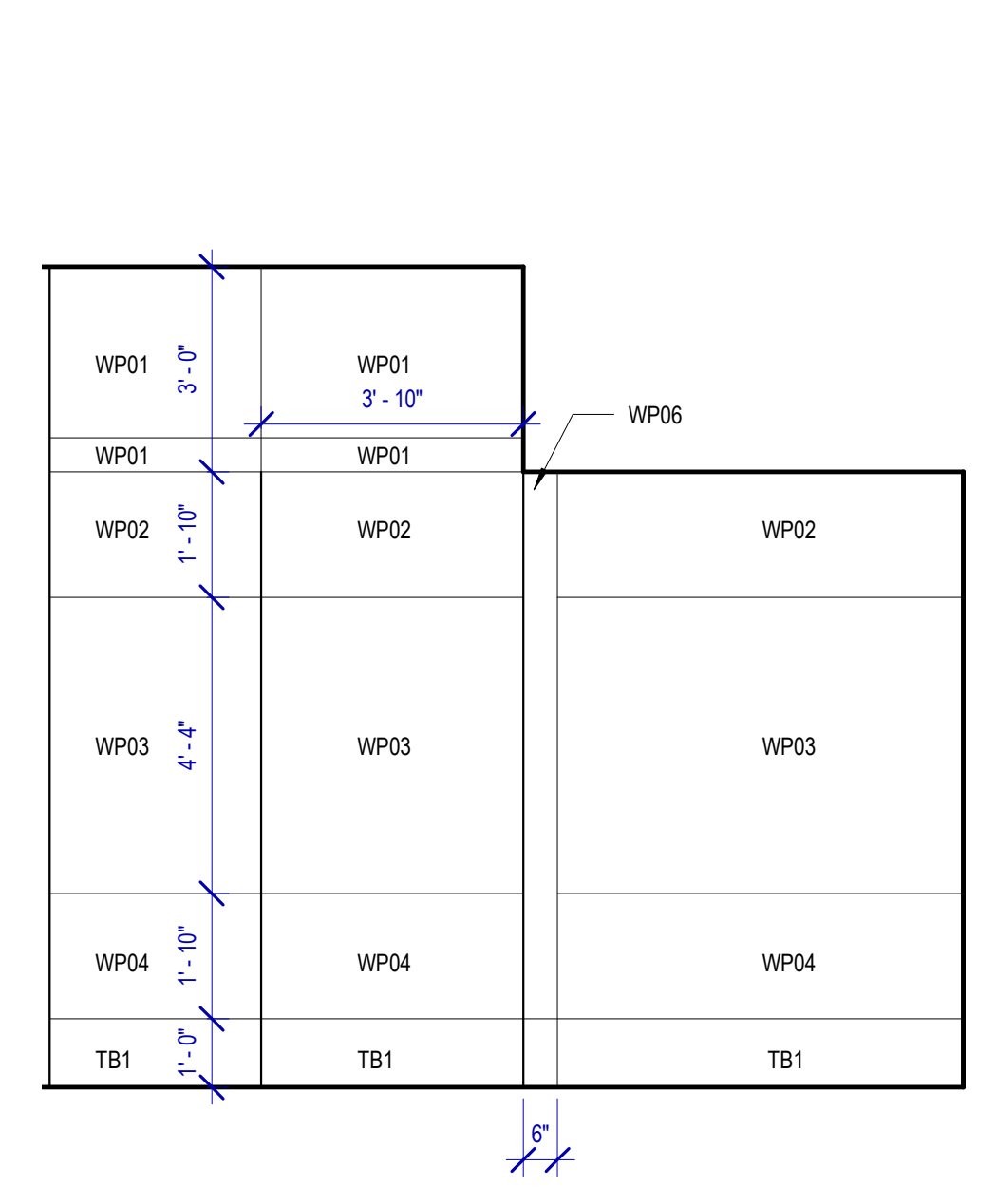
C4 ASSISTED 130 B
SCALE: 3/8" = 1'-0"



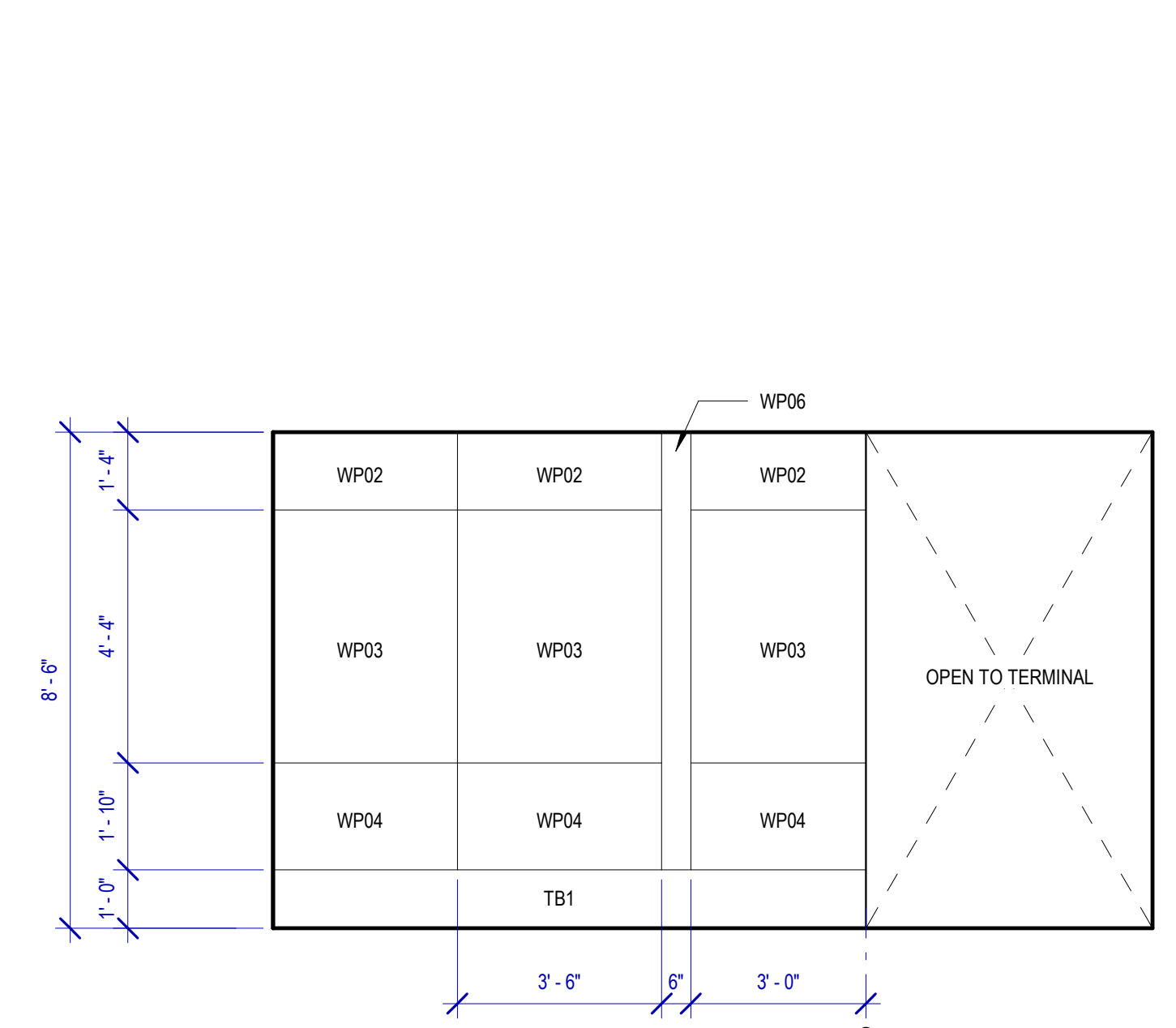
D4 ASSISTED 130 A
SCALE: 3/8" = 1'-0"



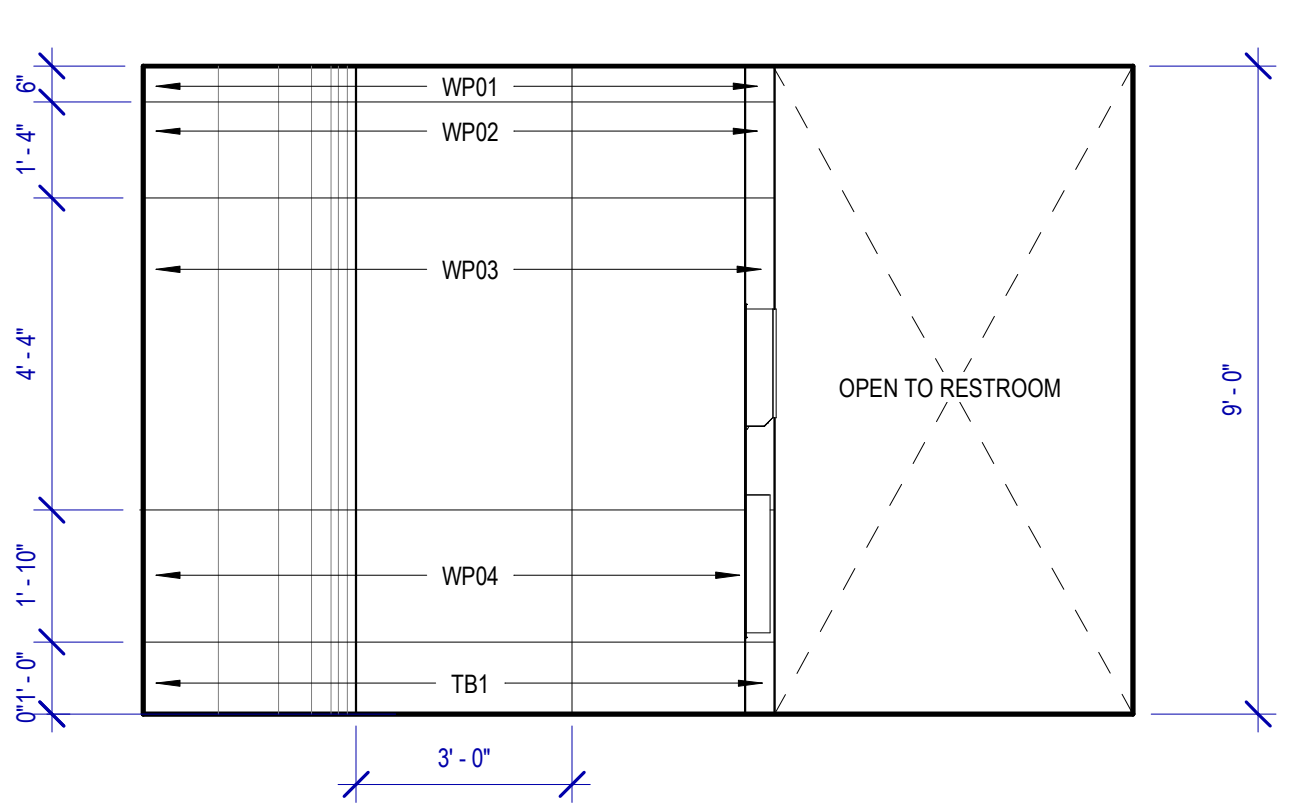
A3 MENS 129 G
SCALE: 3/8" = 1'-0"



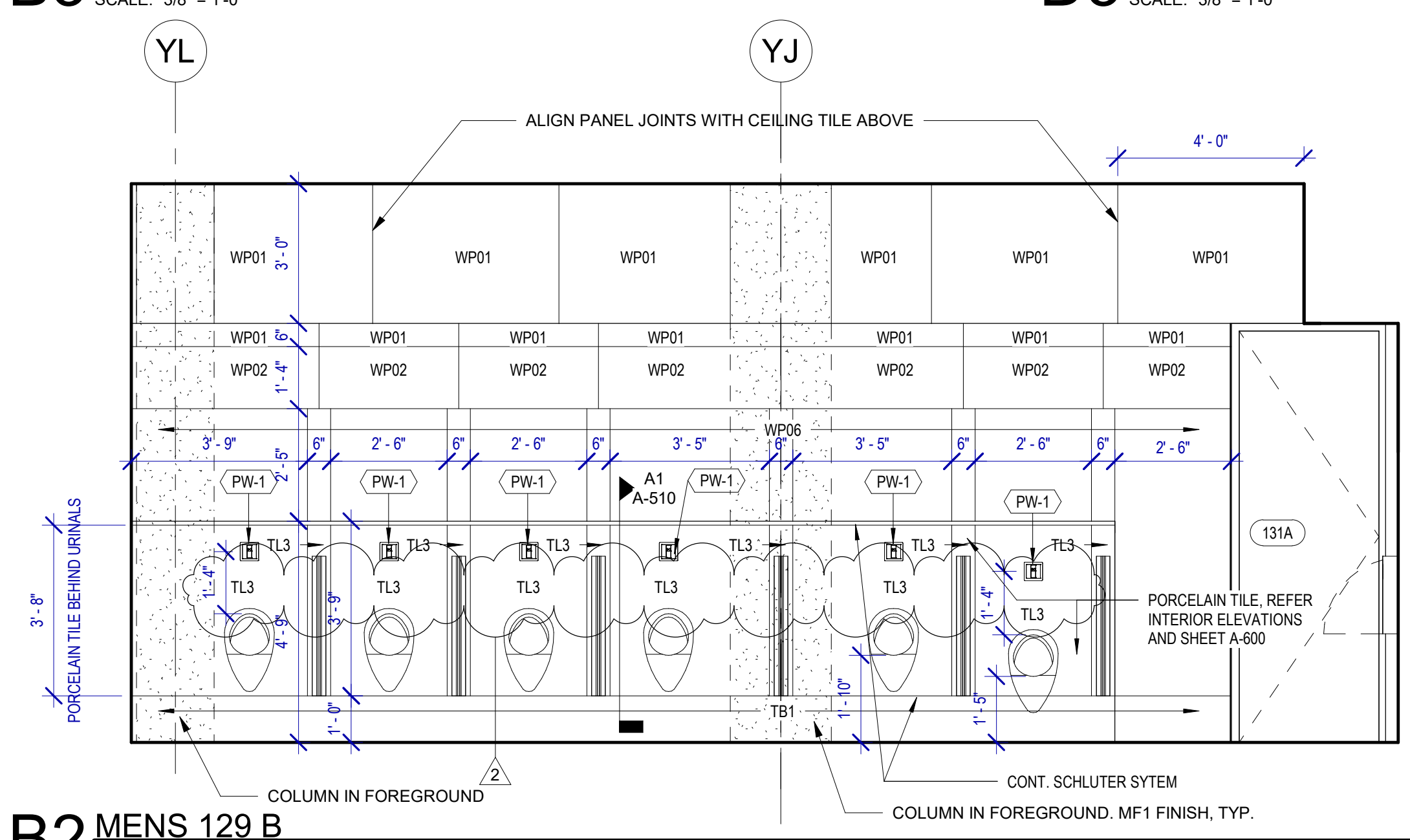
B3 MENS 129 F
SCALE: 3/8" = 1'-0"



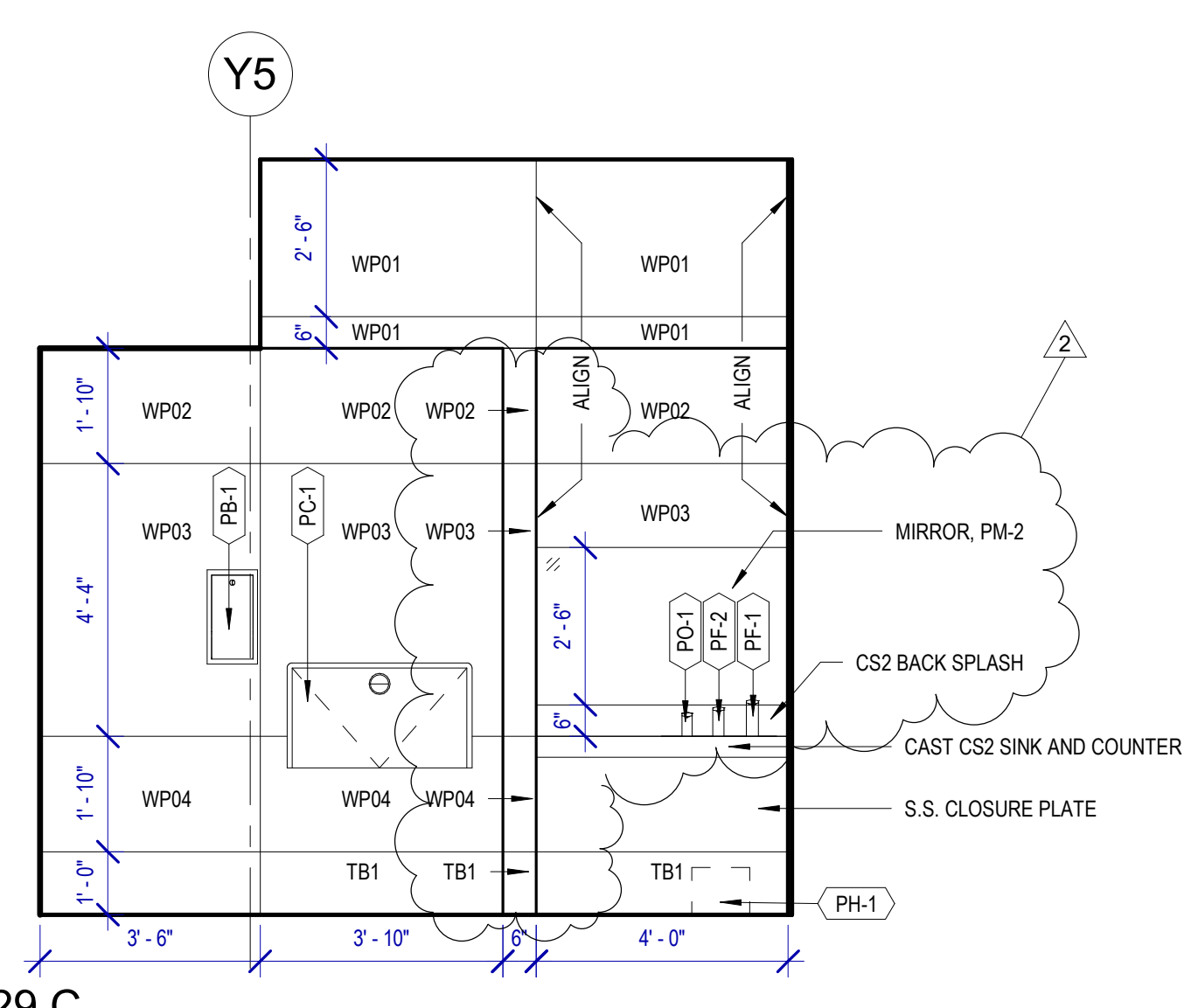
D3 MENS 129 E
SCALE: 3/8" = 1'-0"



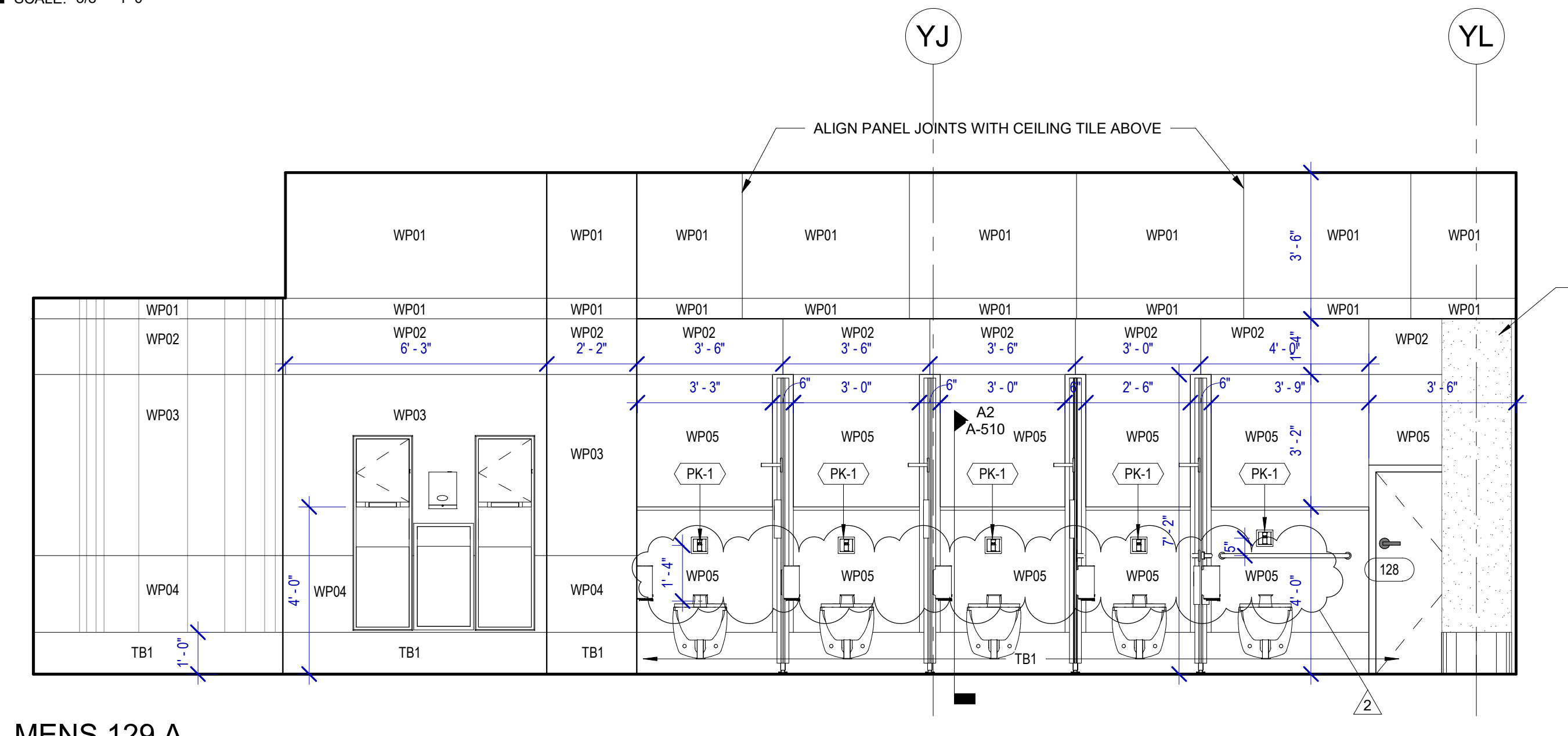
A2 MENS 129 D
SCALE: 3/8" = 1'-0"



B2 MENS 129 B
SCALE: 3/8" = 1'-0"



A1 MENS 129 C
SCALE: 3/8" = 1'-0"



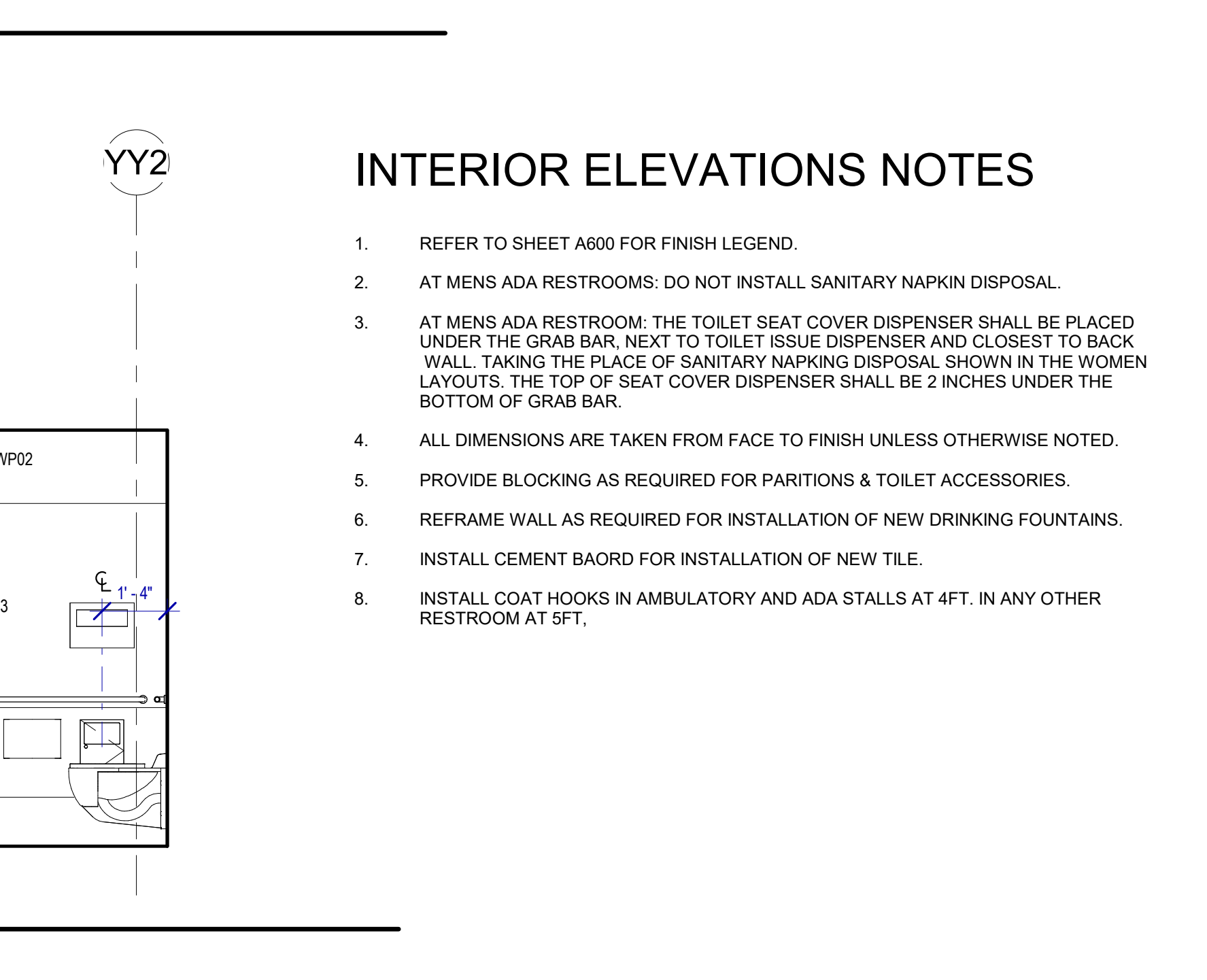
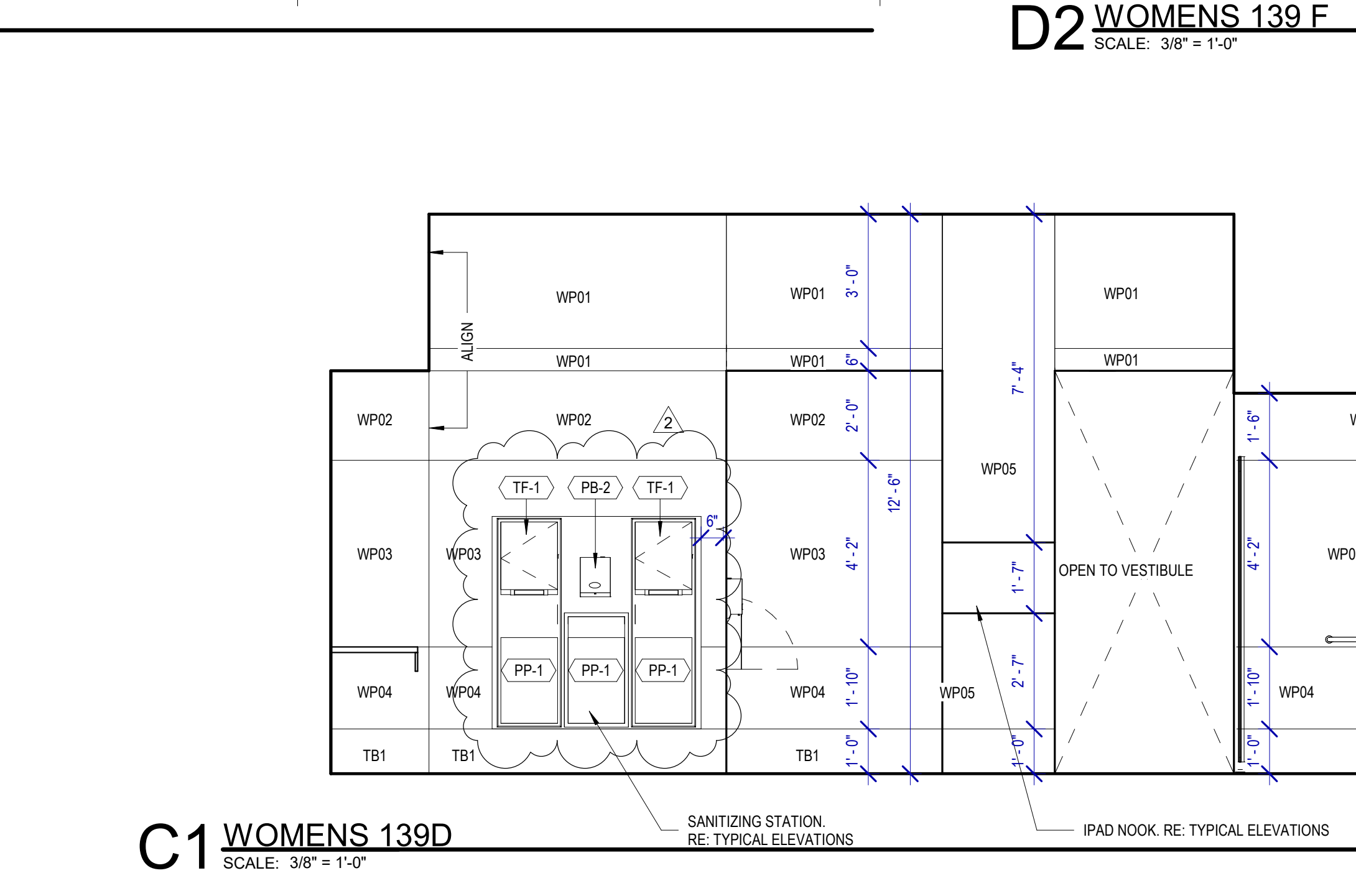
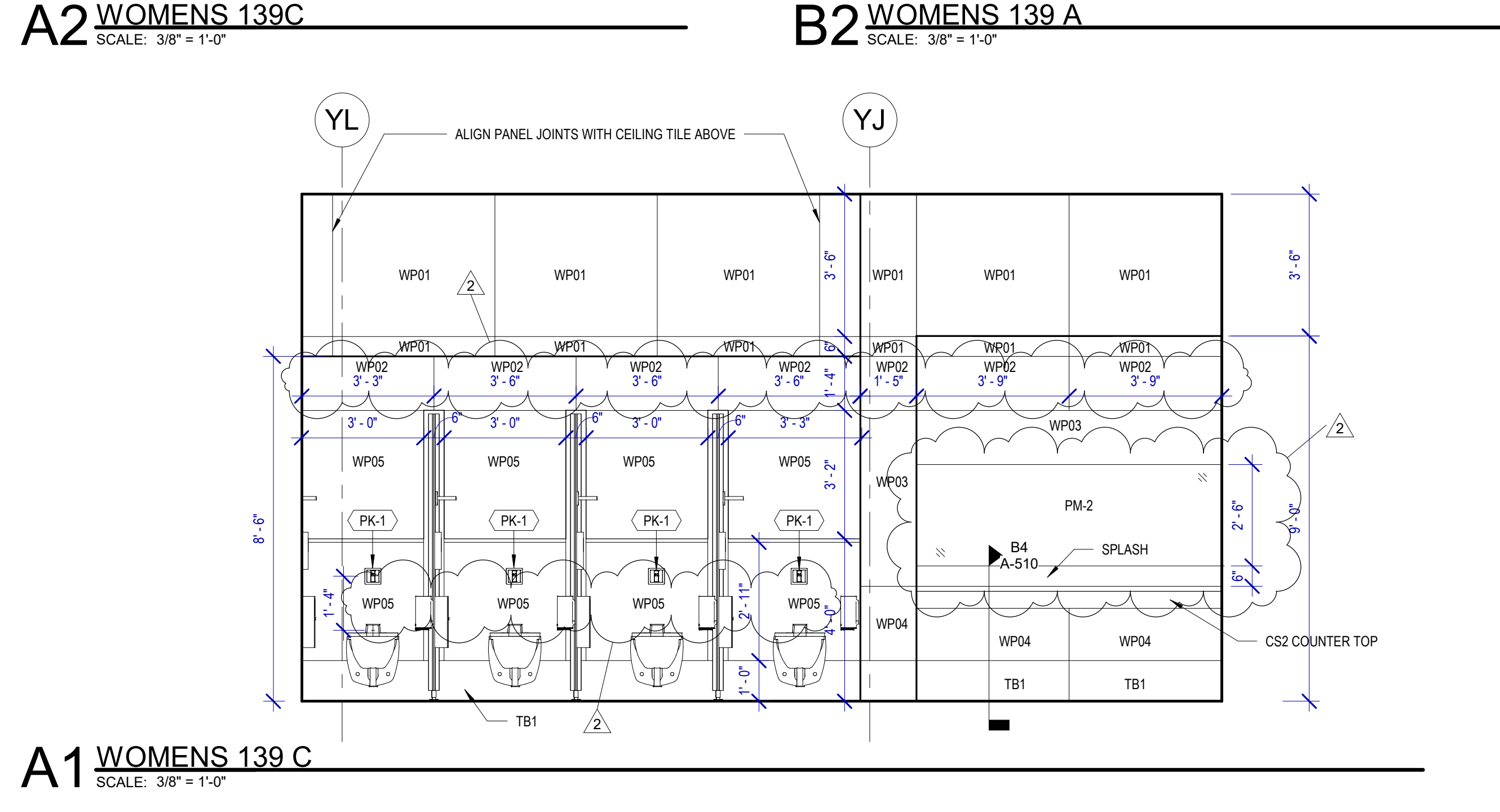
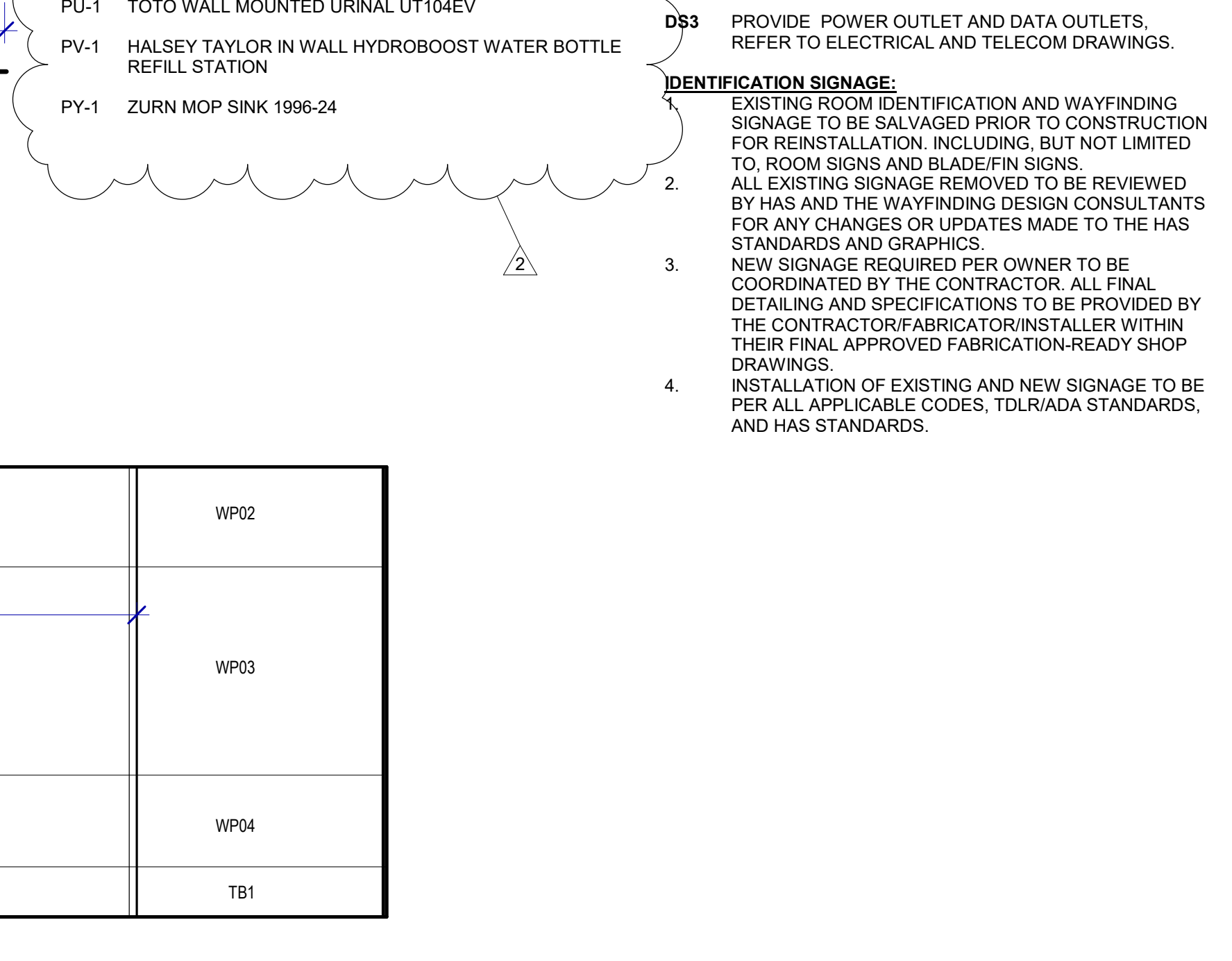
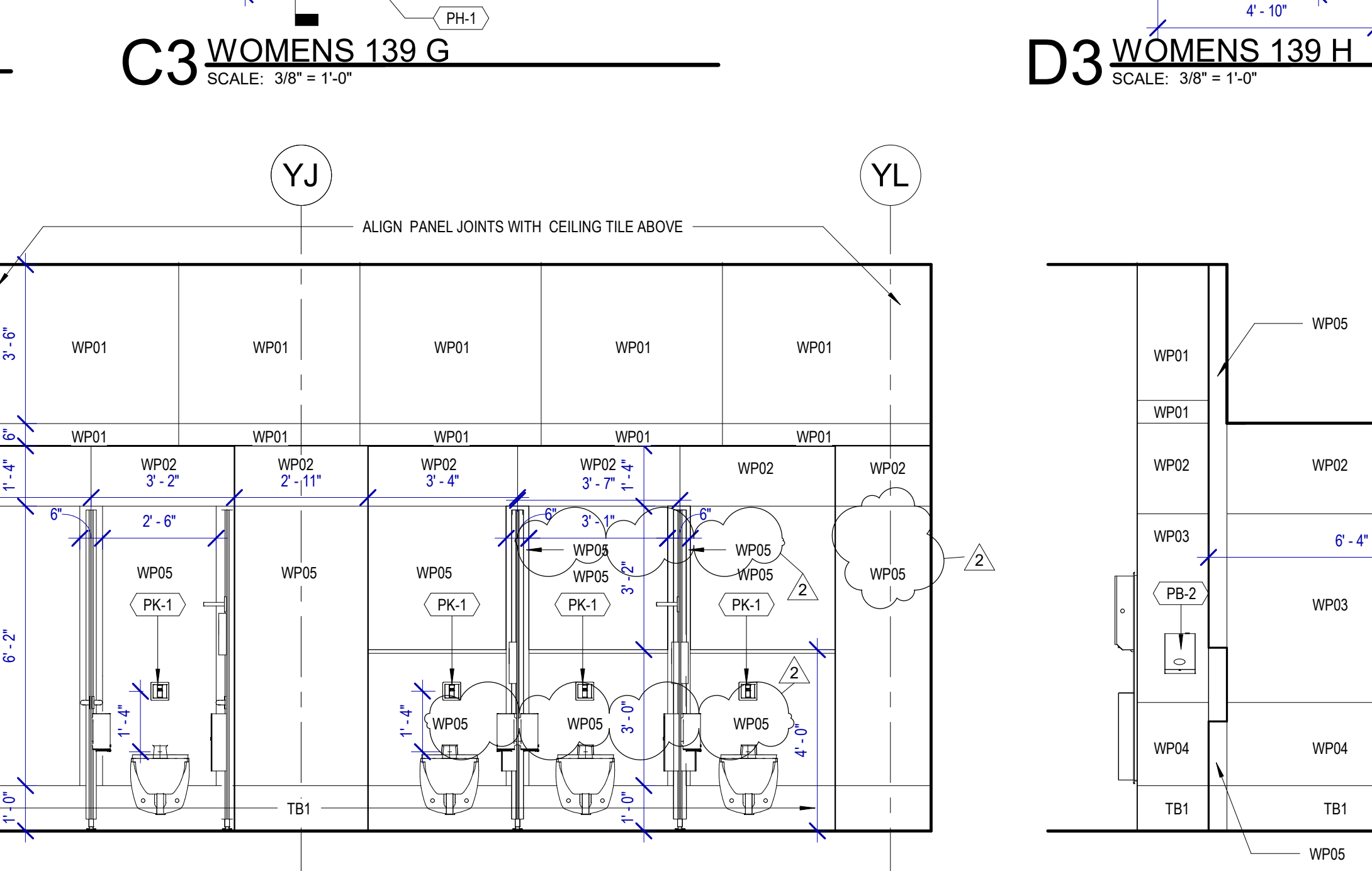
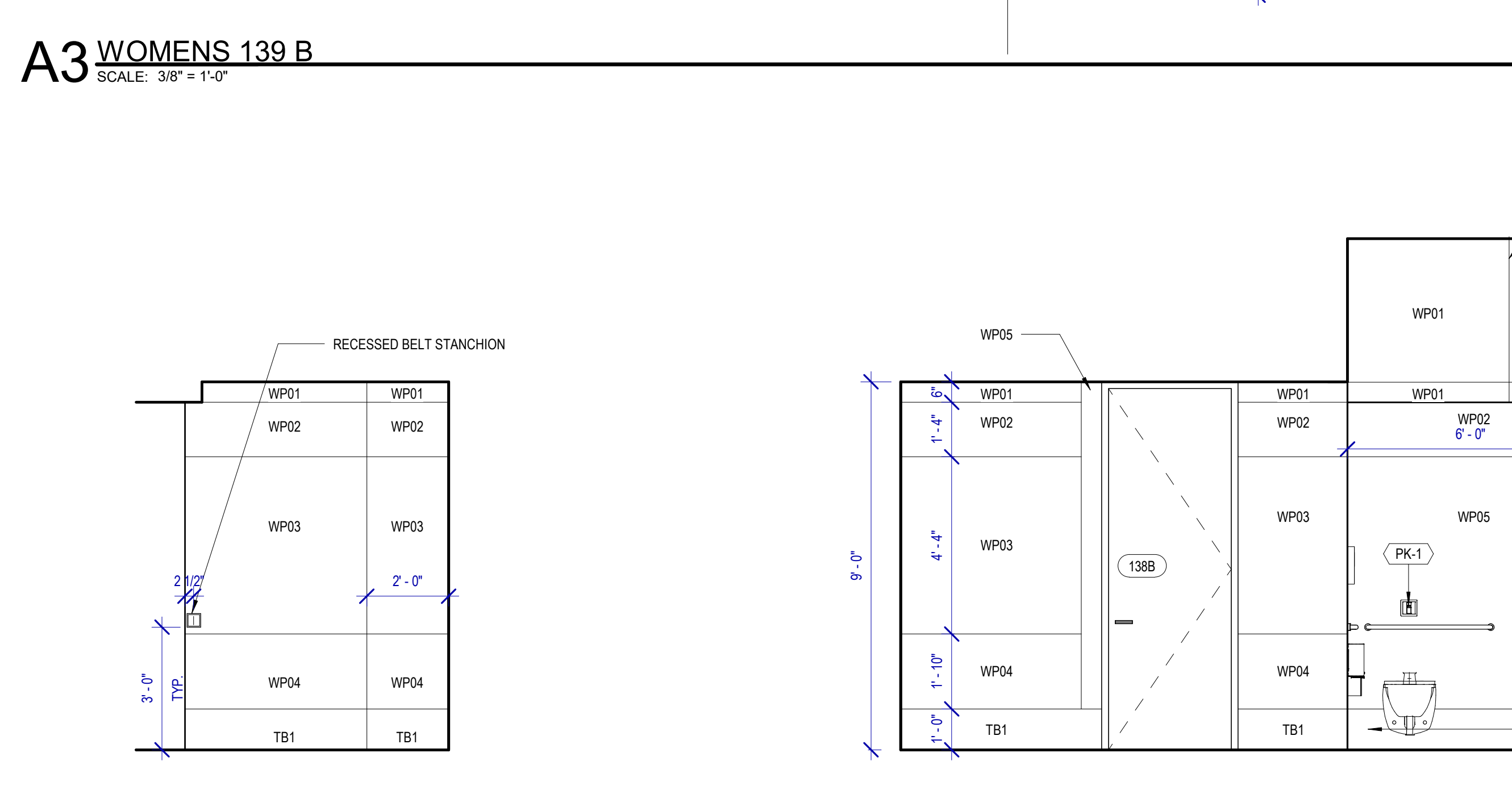
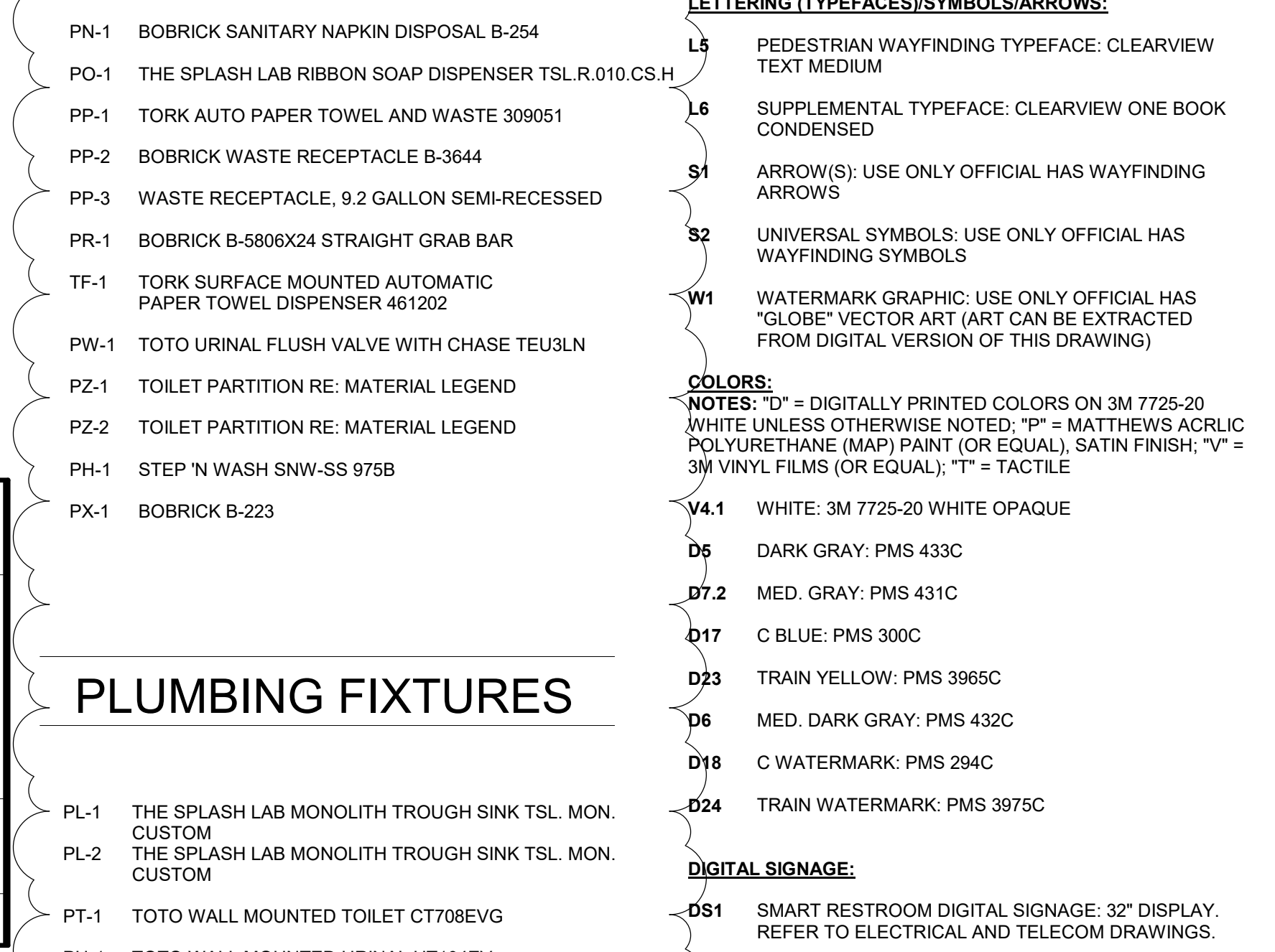
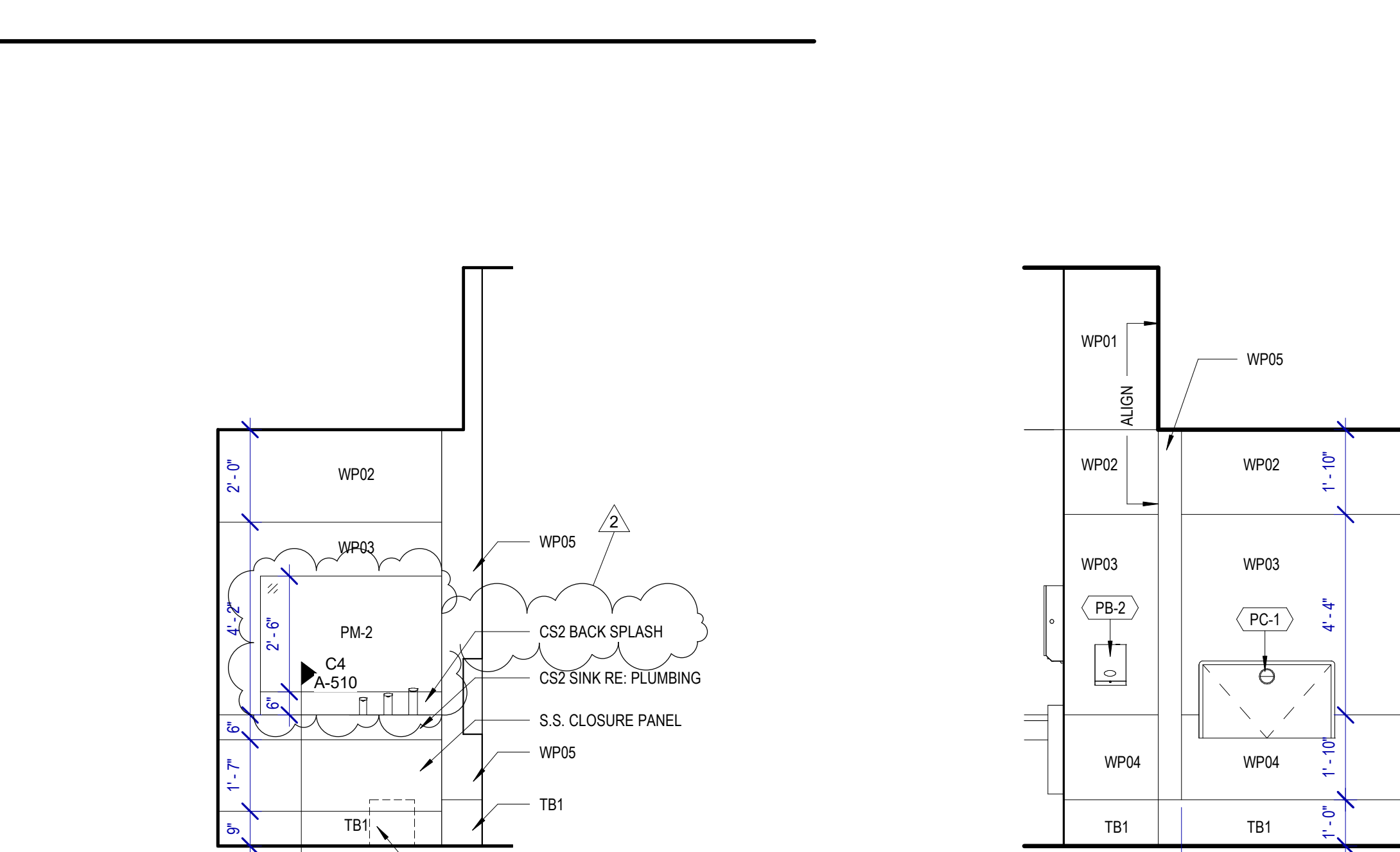
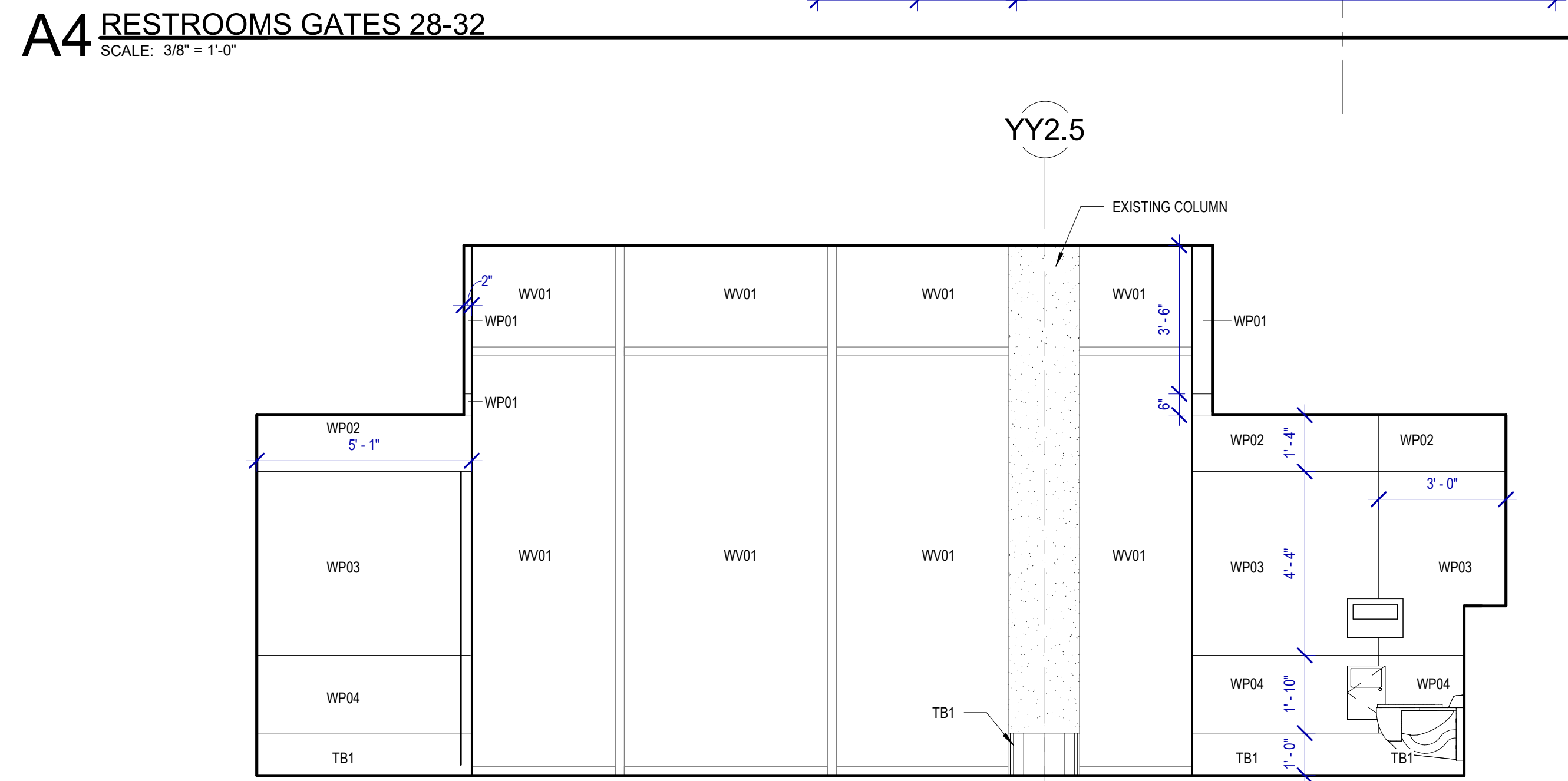
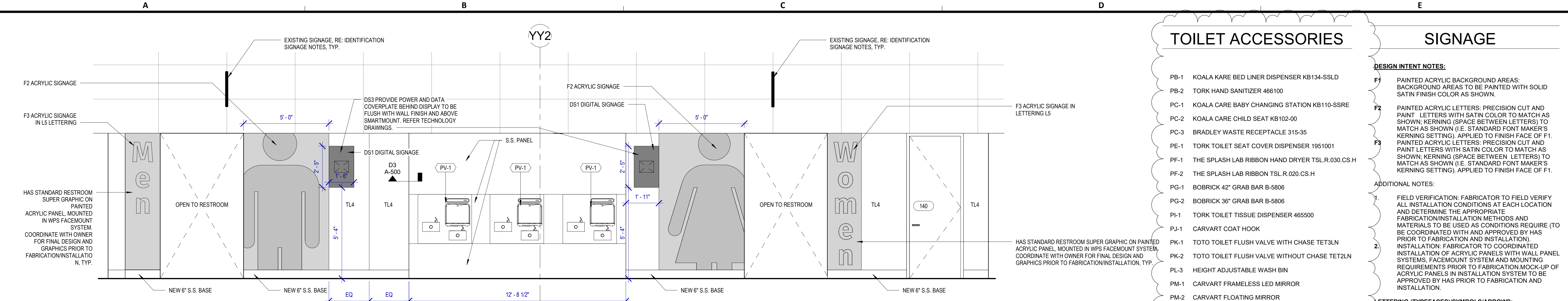
B1 MENS 129 A
SCALE: 3/8" = 1'-0"

FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt
HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No.:

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt

PLOT DATE: 03/22/2022 10:00:00 AM



HOUSTON AIRPORTS

7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800 Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

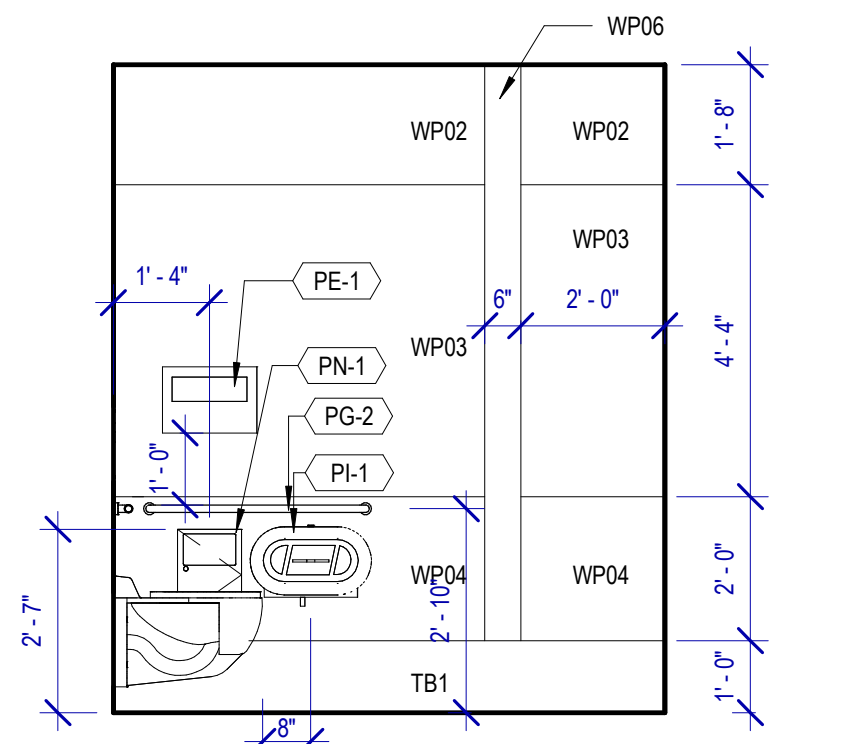
DIRECTOR of HOUSTON AIRPORT SYSTEM

ISSUED FOR BIDDING

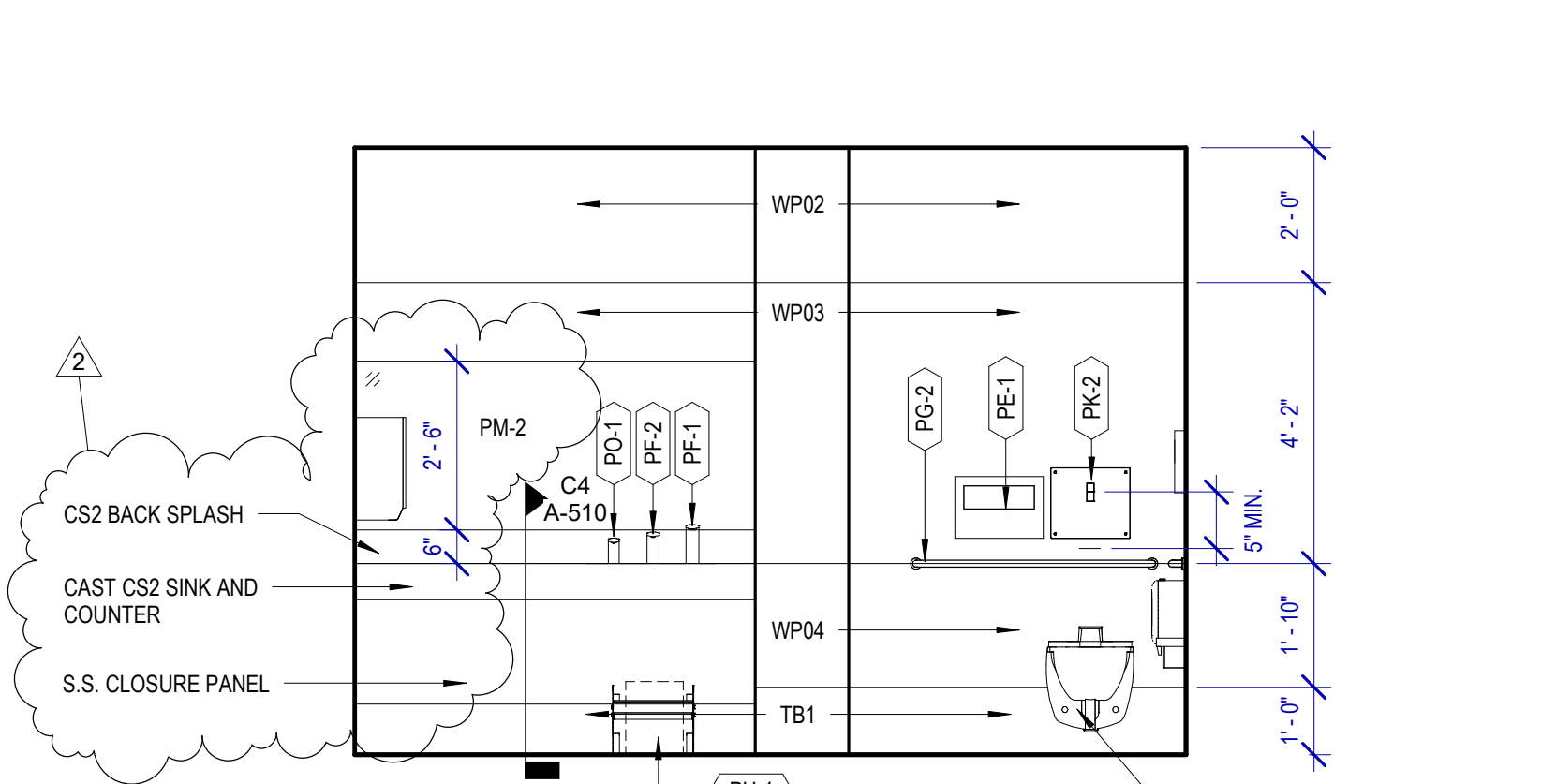
REGISTERED ARCHITECT DANIEL ORTIZ
STATE OF TEXAS
03.22.22

SHEET NAME: INTERIOR ELEVATIONS GATES 28-32
SHEET No. A-427 SCALE: As indicated
SHEET SIZE: 30"x42" ARCH E1

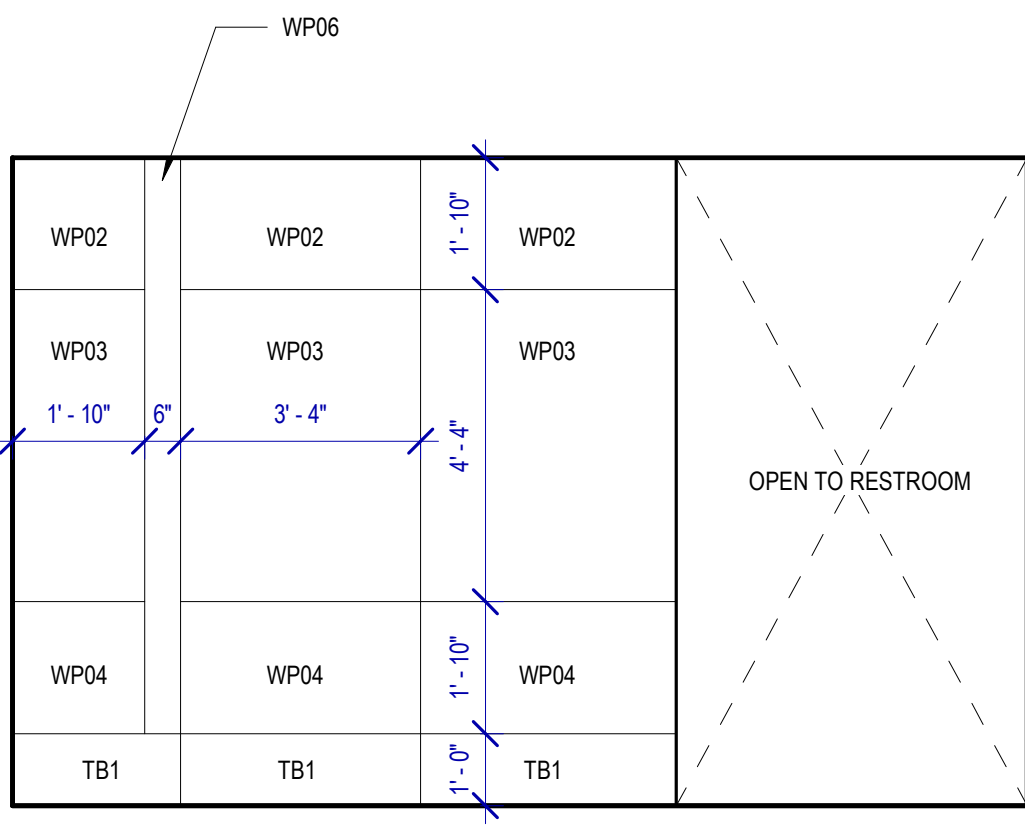
A4 ASSISTED 140 B
SCALE: 3/8" = 1'-0"



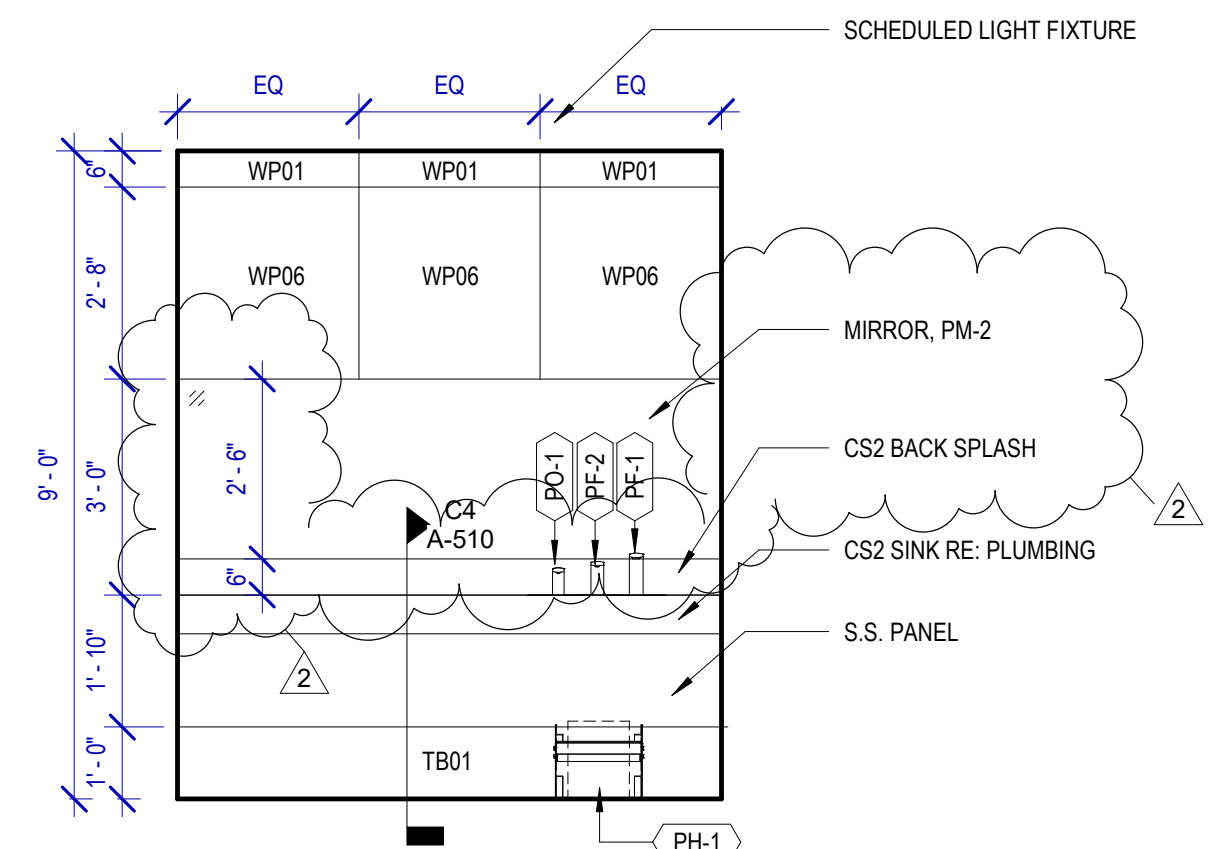
B4 ASSISTED 140 A
SCALE: 3/8" = 1'-0"



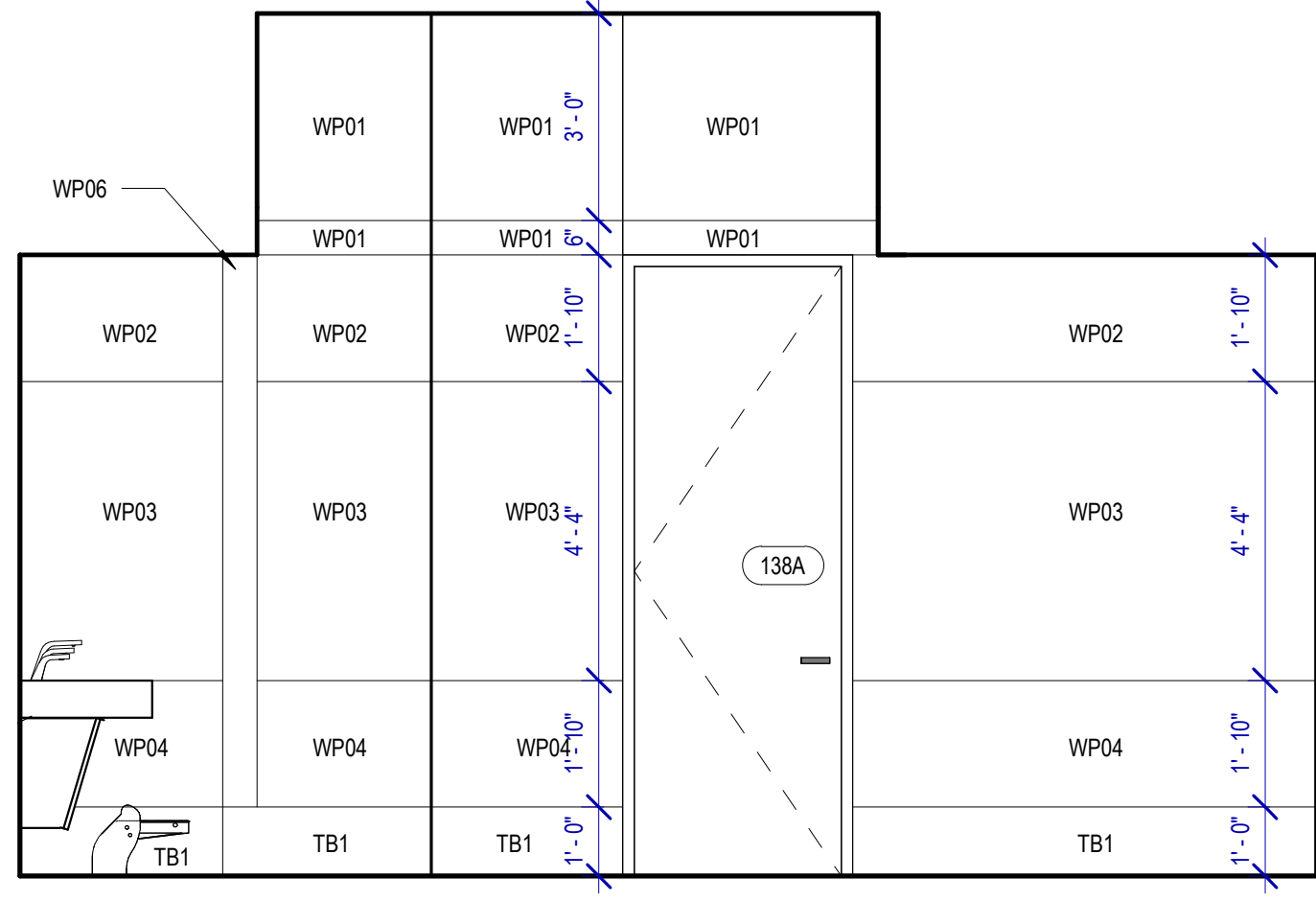
C4 MENS 136 J
SCALE: 3/8" = 1'-0"



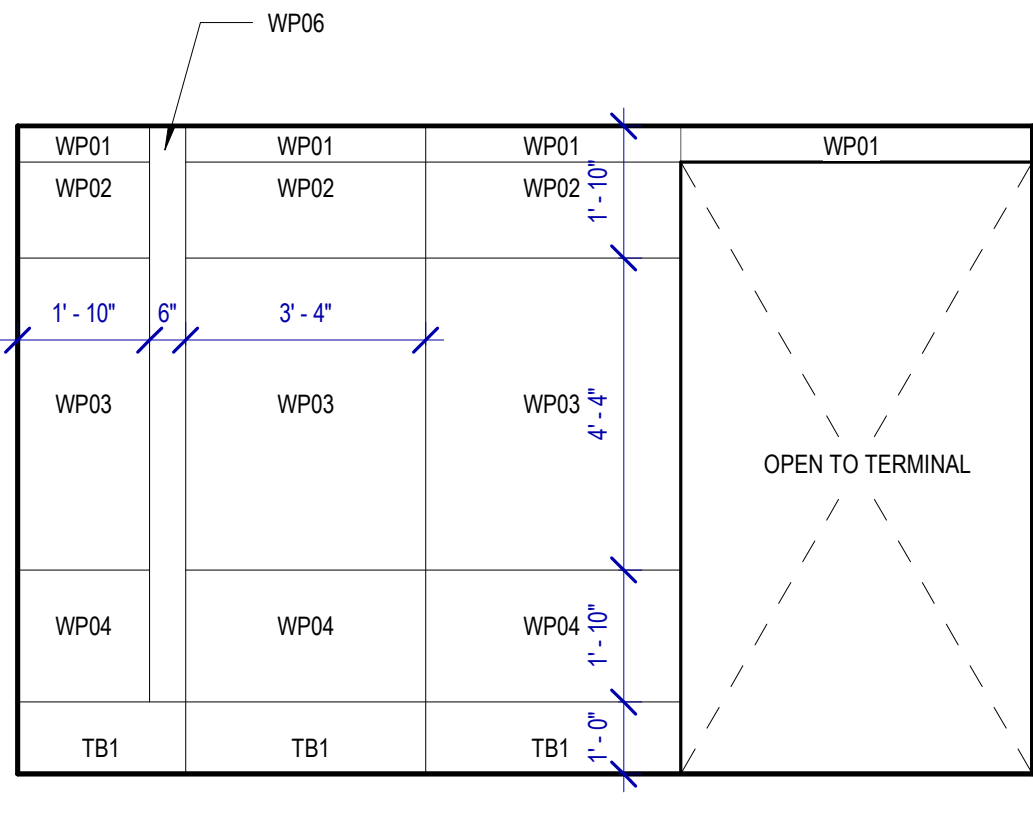
A3 MENS 136 E
SCALE: 3/8" = 1'-0"



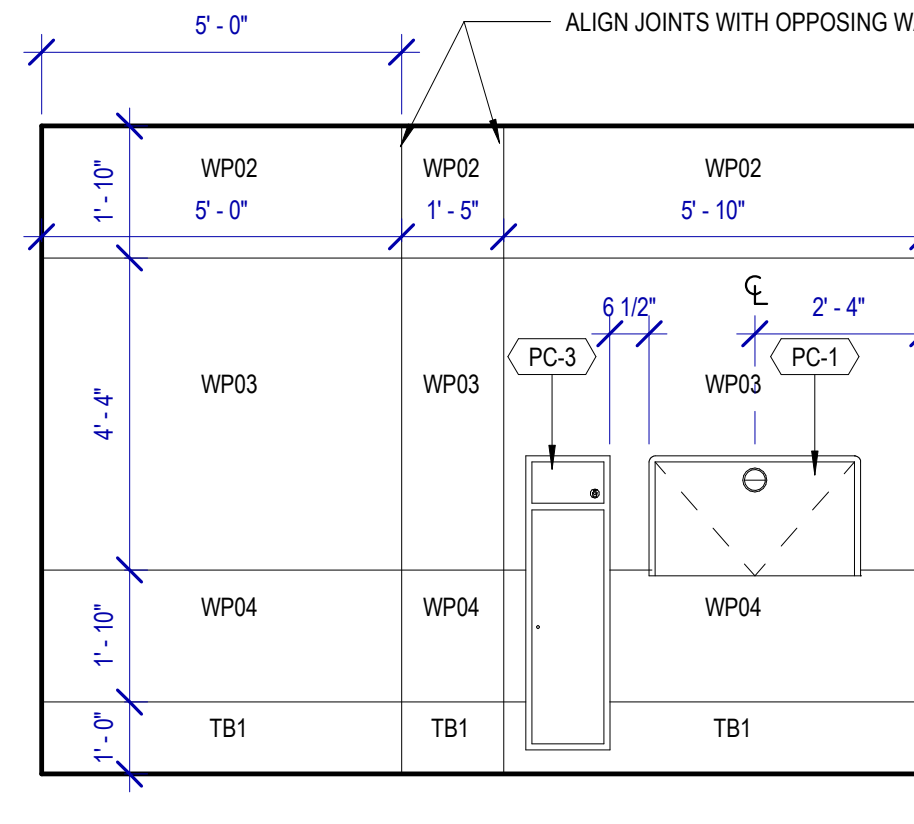
B3 MENS 136 F
SCALE: 3/8" = 1'-0"



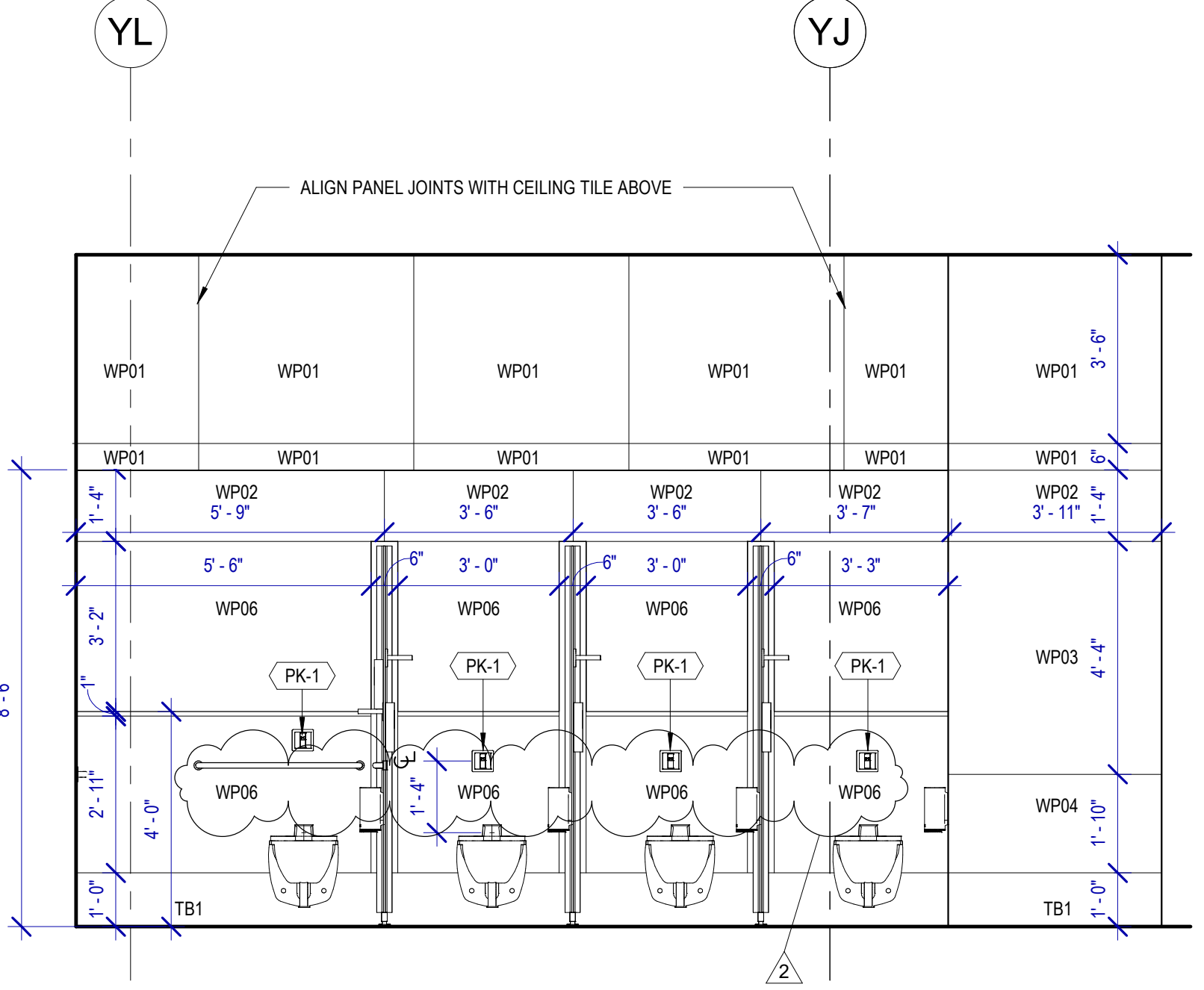
C3 MENS 136 G
SCALE: 3/8" = 1'-0"



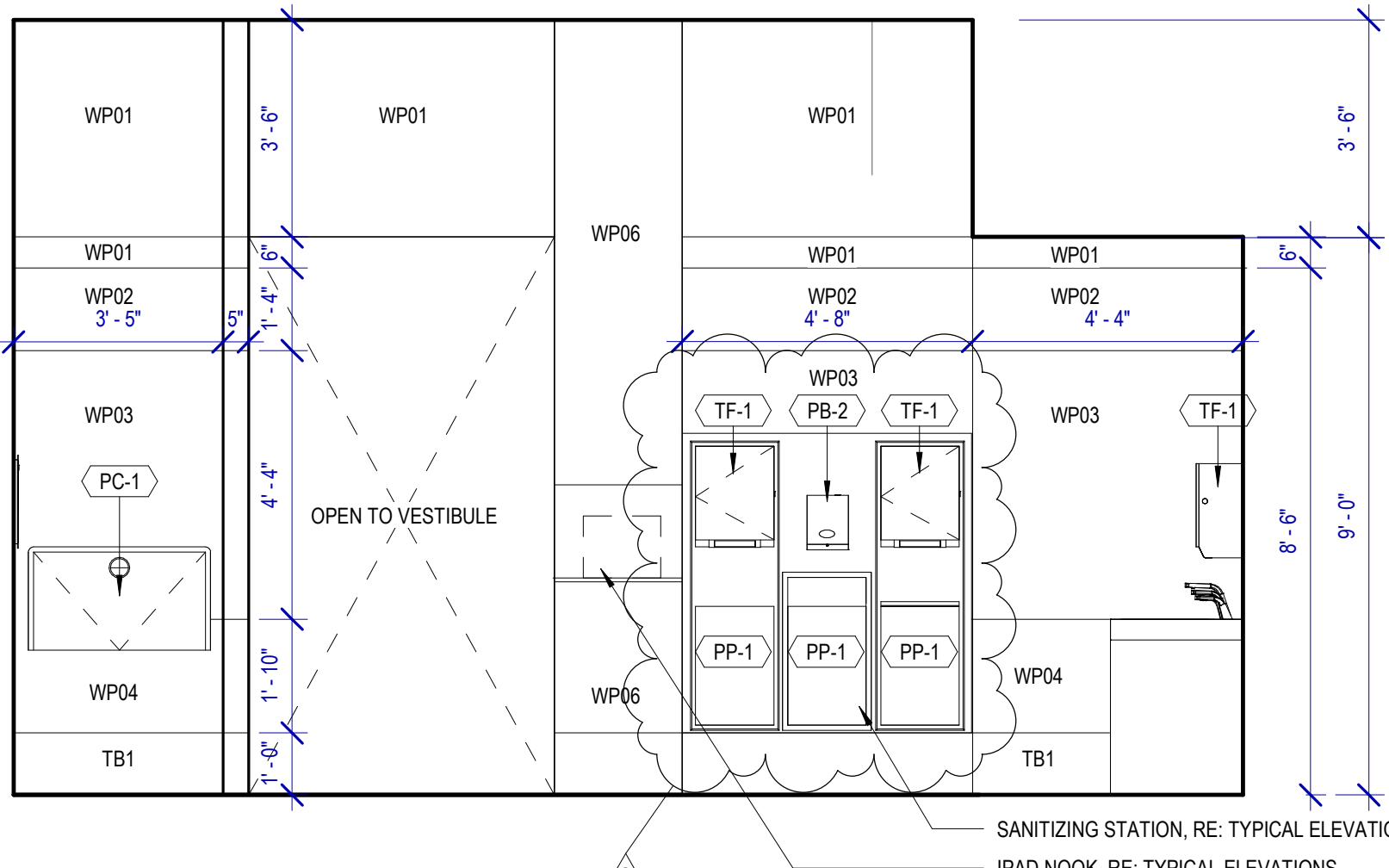
D3 ASSISTED 140 C
SCALE: 3/8" = 1'-0"



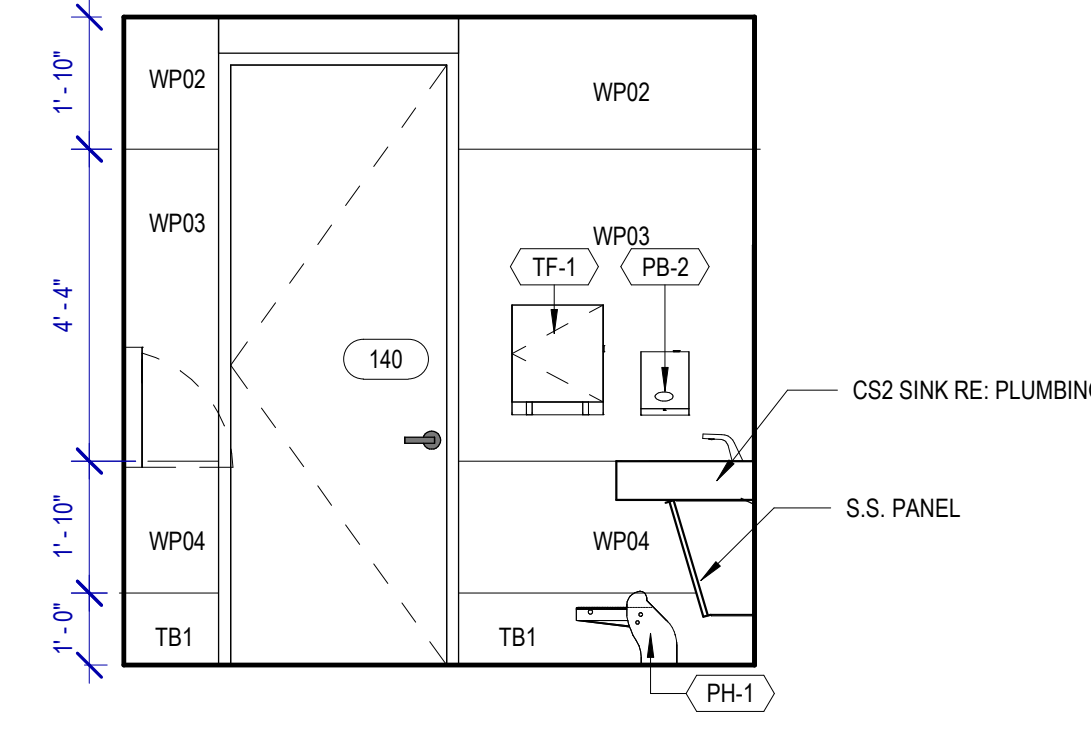
A2 MENS 136 C
SCALE: 3/8" = 1'-0"



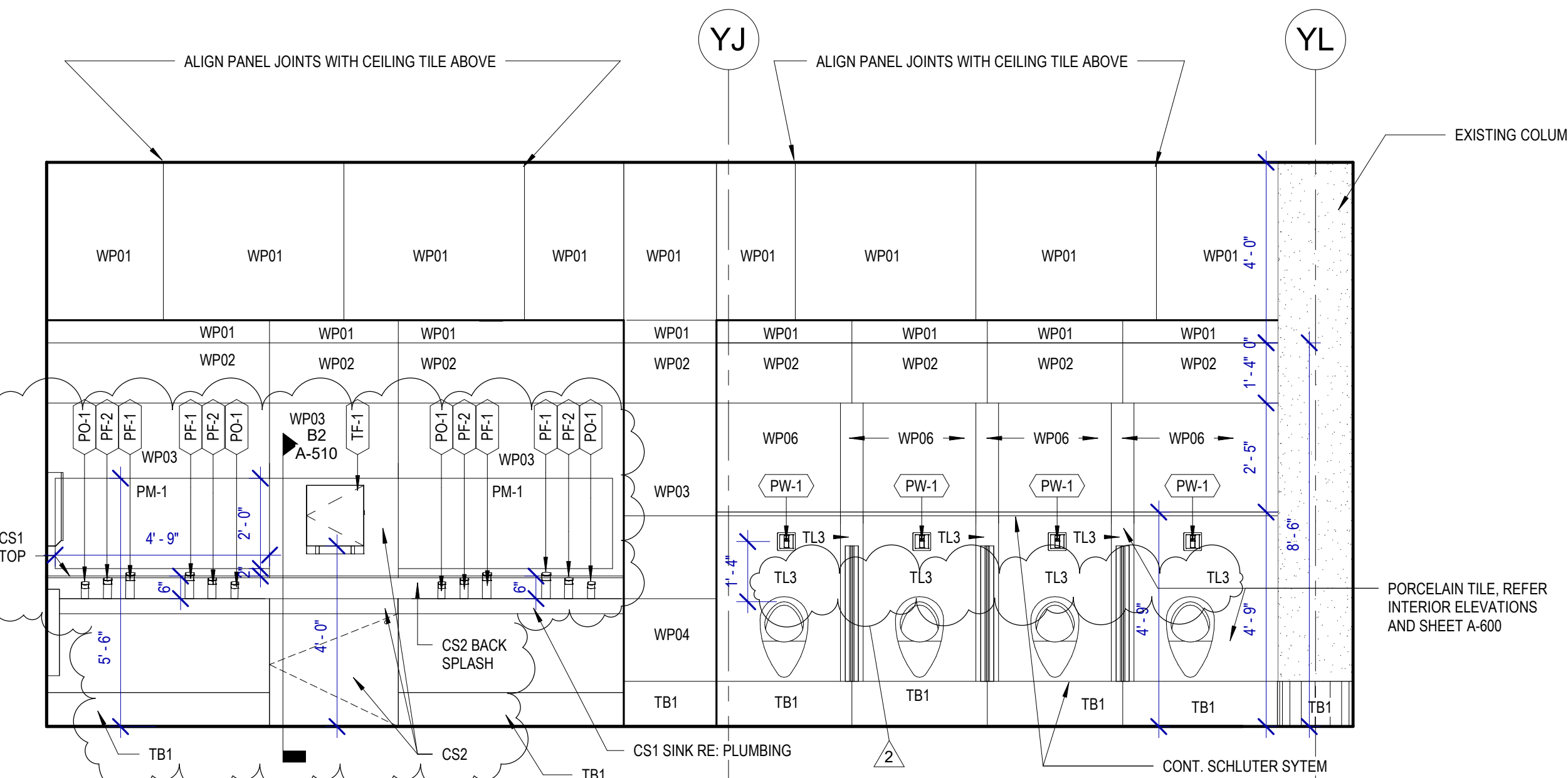
C2 MENS 136 D
SCALE: 3/8" = 1'-0"



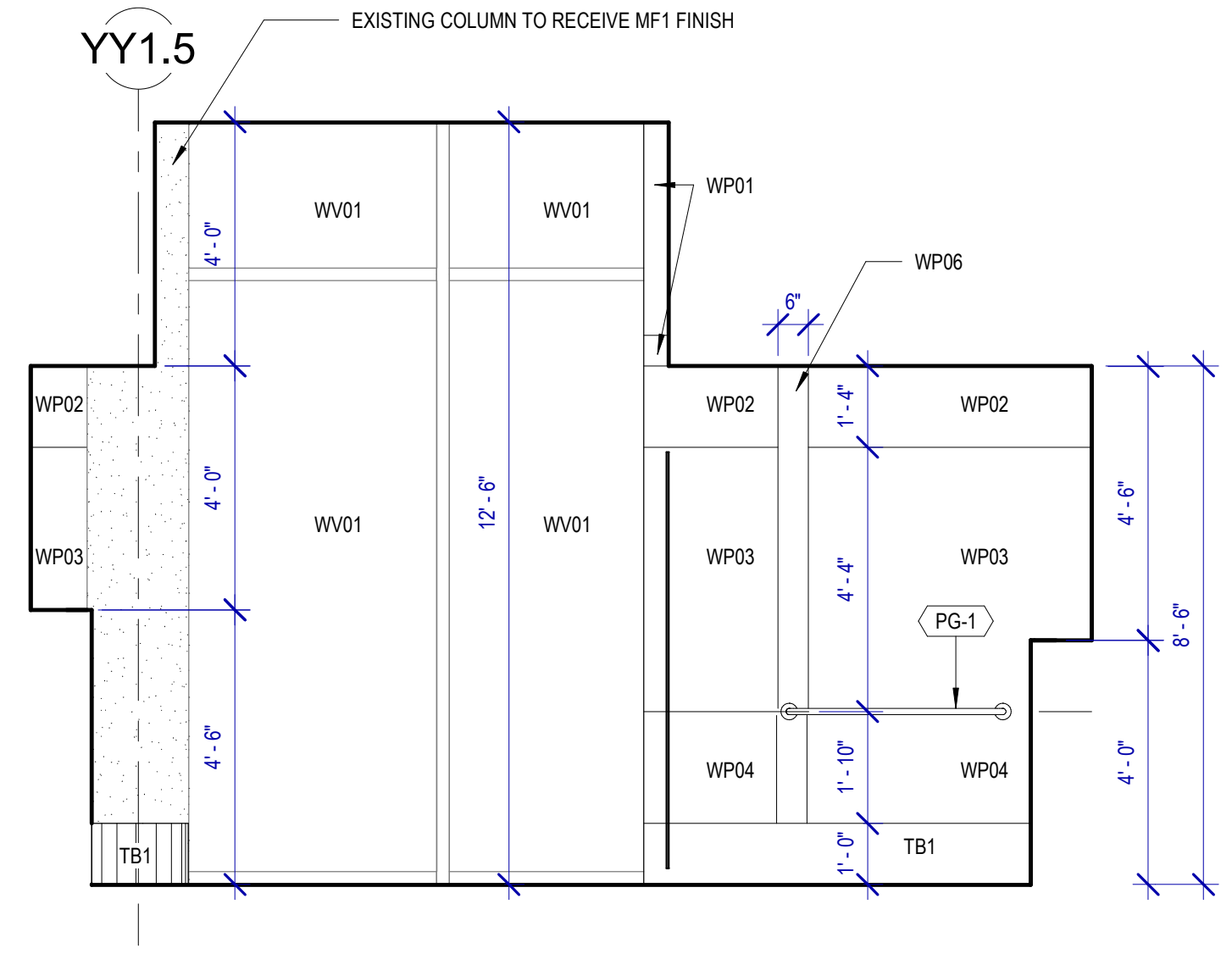
D2 ASSISTED 140 D
SCALE: 3/8" = 1'-0"



A1 MENS 136 B
SCALE: 3/8" = 1'-0"



C1 MENS 136 A
SCALE: 3/8" = 1'-0"



TOILET ACCESSORIES

- PB-1 KOALA KARE BED LINER DISPENSER KB134-SSLD
PB-2 TORK HAND SANITIZER 466100
PC-1 KOALA CARE BABY CHANGING STATION KB110-SSRE
PC-2 KOALA CARE CHILD SEAT KB102-00
PC-3 BRADLEY WASTE RECEPTACLE 315-35
PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
PF-1 THE SPLASH LAB RIBBON HAND DRYER TSLR.030.CS.H
PF-2 THE SPLASH LAB RIBBON TSLR.020.CS.H
PG-1 BOBRICK 42" GRAB BAR B-5806
PG-2 BOBRICK 36" GRAB BAR B-5806
PH-1 TORK TOILET TISSUE DISPENSER 465500
PJ-1 CARVART COAT HOOK
PK-1 TOTO TOILET FLUSH VALVE WITH CHASE TET3LN
PK-2 TOTO TOILET FLUSH VALVE WITHOUT CHASE TET2LN
PL-3 HEIGHT ADJUSTABLE WASH BIN
PM-1 CARVART FRAMELESS LED MIRROR
PM-2 CARVART FLOATING MIRROR
PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
PO-1 THE SPLASH LAB RIBBON SOAP DISPENSER TSLR.010.CS.H
PP-1 TORK AUTO PAPER TOWEL AND WASTE 309051
PP-2 BOBRICK WASTE RECEPTACLE B-3644
PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461202
PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
PZ-1 TOILET PARTITION RE: MATERIAL LEGEND
PZ-2 TOILET PARTITION RE: MATERIAL LEGEND
PH-1 STEP 'N WASH SNW-SS 975B
PX-1 BOBRICK B-223

PLUMBING FIXTURES

- PL-1 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
PL-2 THE SPLASH LAB MONOLITH TROUGH SINK TSL. MON. CUSTOM
PT-1 TOTO WALL MOUNTED TOILET CT708EVG
PU-1 TOTO WALL MOUNTED URINAL UT104EV
PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
PY-1 ZURN MOP SINK 1996-24

INTERIOR ELEVATIONS NOTES

- 1. REFER TO SHEET A600 FOR FINISH LEGEND.
2. AT MENS ADA RESTROOMS: DO NOT INSTALL SANITARY NAPKIN DISPOSAL.
3. AT MENS ADA RESTROOM: THE TOILET SEAT COVER DISPENSER SHALL BE PLACED UNDER THE GRAB BAR, NEXT TO TOILET ISSUE DISPENSER AND CLOSEST TO BACK WALL, TAKING THE PLACE OF SANITARY NAPKIN DISPOSAL SHOWN IN THE WOMEN LAYOUTS. THE TOP OF SEAT COVER DISPENSER SHALL BE 2 INCHES UNDER THE BOTTOM OF GRAB BAR.
4. ALL DIMENSIONS ARE TAKEN FROM FACE TO FINISH UNLESS OTHERWISE NOTED.
5. PROVIDE BLOCKING AS REQUIRED FOR PARTITIONS & TOILET ACCESSORIES.
6. REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
7. INSTALL CEMENT BOARD FOR INSTALLATION OF NEW TILE.
8. INSTALL COAT HOOKS IN AMBULATORY AND ADA STALLS AT 4FT. IN ANY OTHER RESTROOM AT 5FT.



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS
PHASE 2

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



HENDERSON ROGERS
structural engineers

2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

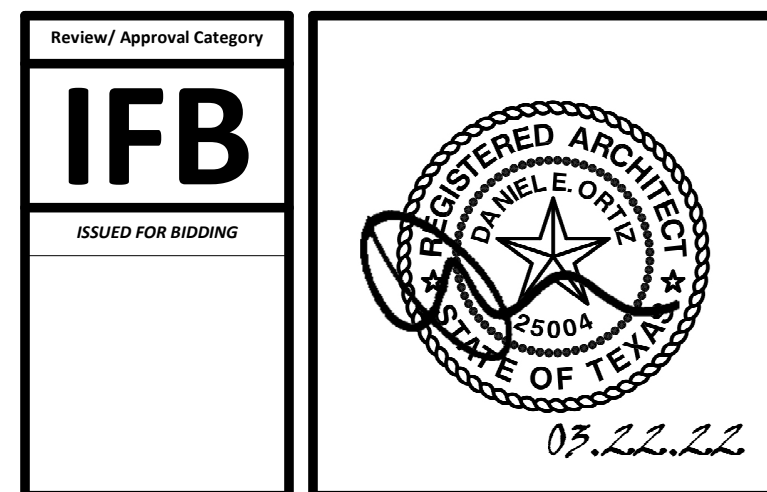
DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS

Table with 4 columns: No., DESCRIPTION, DATE, BY. Contains 2 revision entries.

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

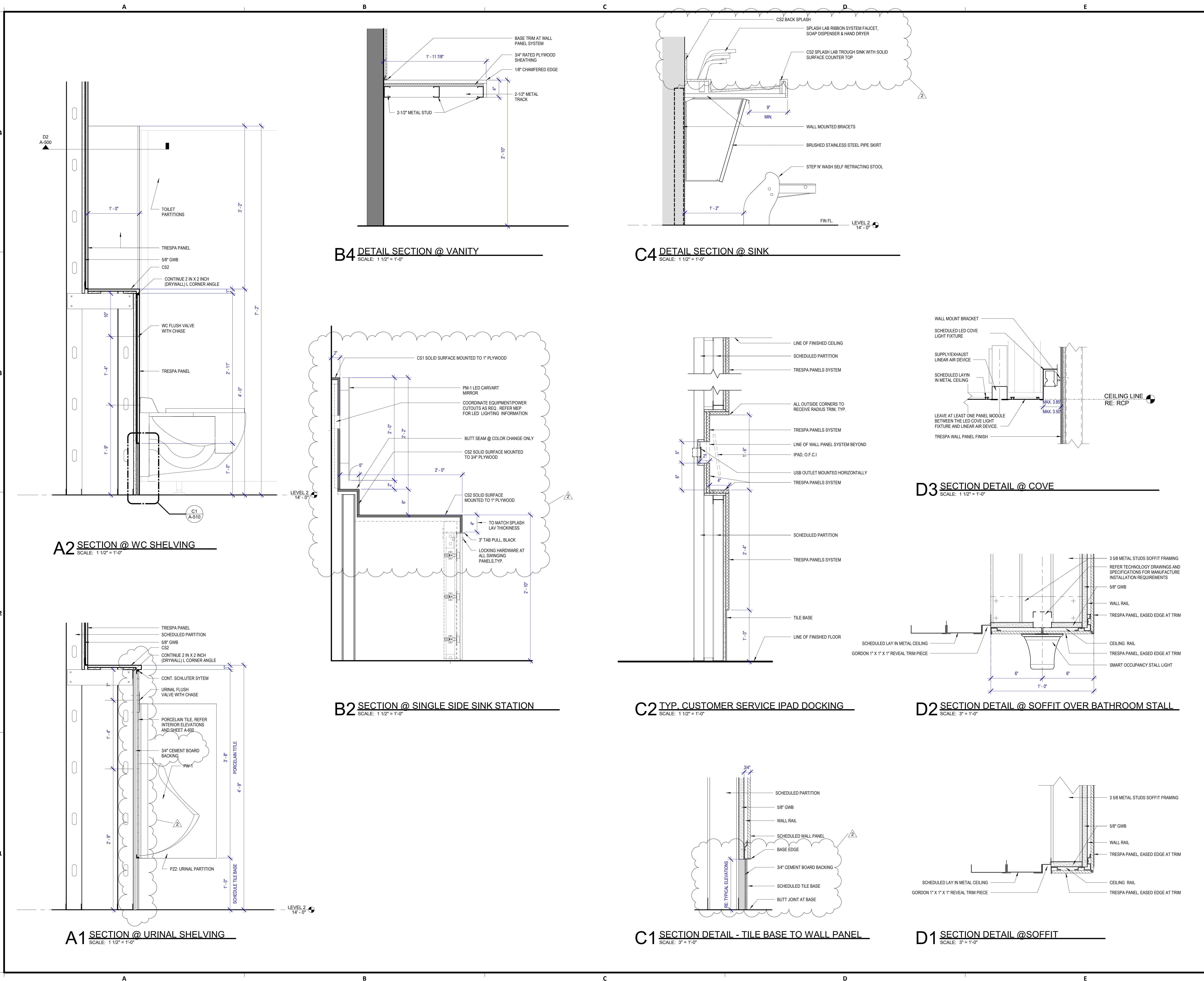
DIRECTOR
of
HOUSTON AIRPORT SYSTEM



SHEET NAME: INTERIOR ELEVATIONS GATES 28-32

SHEET No. A-428 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



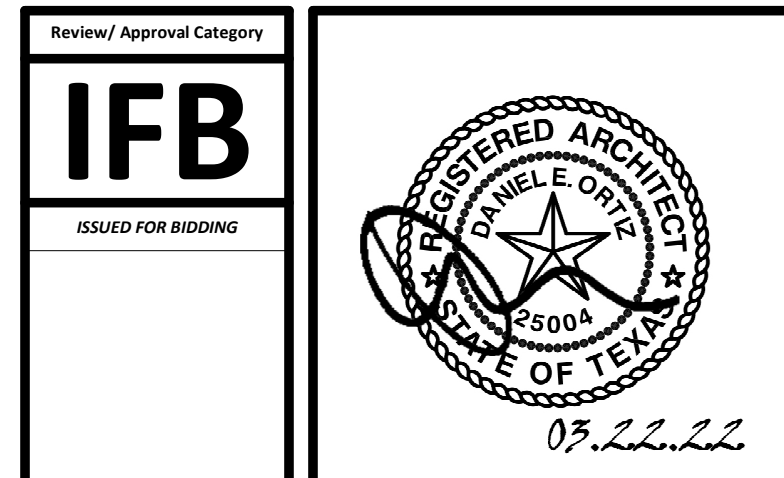
**HENDERSON
ROGERS**
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM



SHEET NAME: SECTION DETAILS

SHEET No. A-510 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. **PN209A** A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com

JONES ENGINEERS, L.P.

**HENDERSON
ROGERS**
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

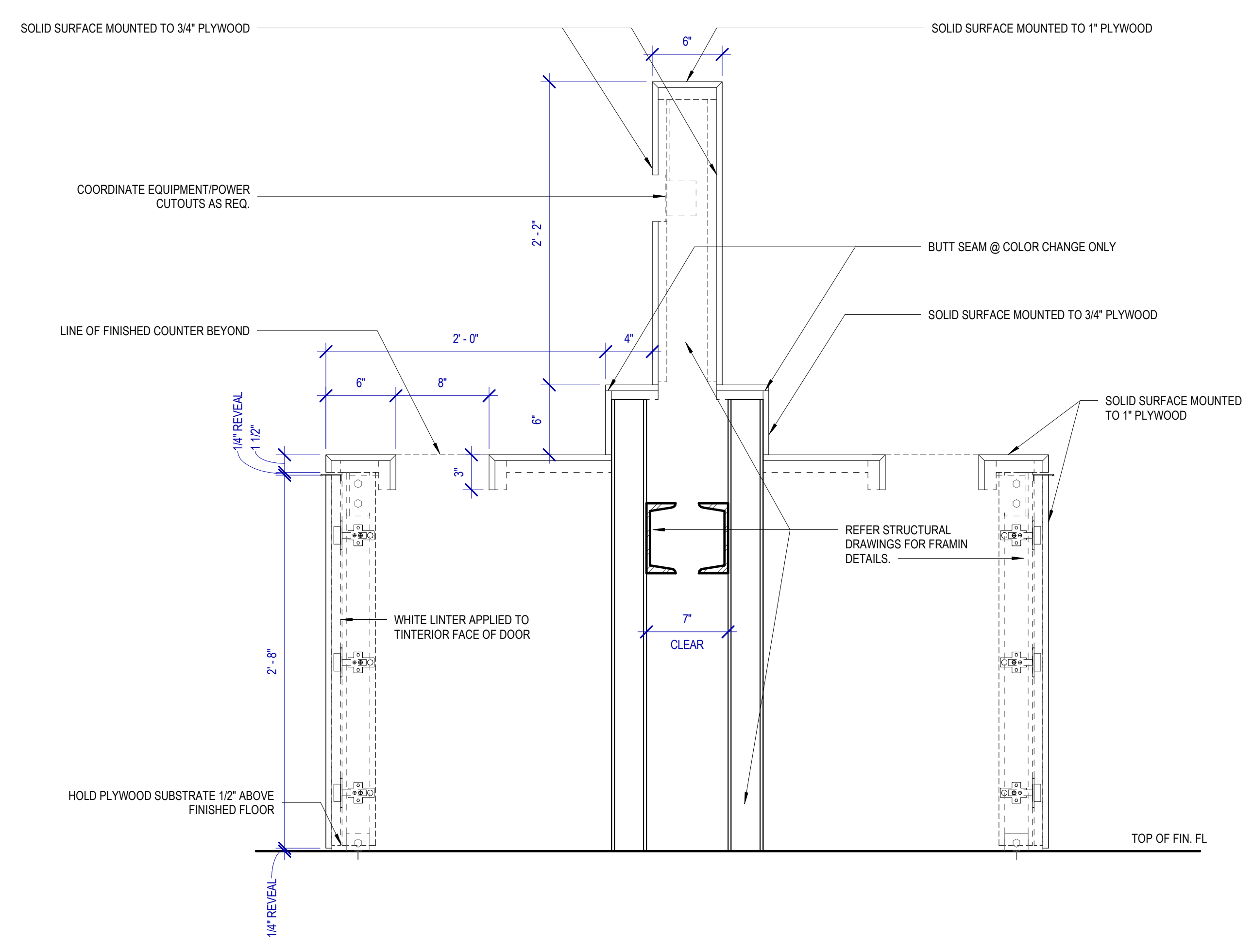
No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

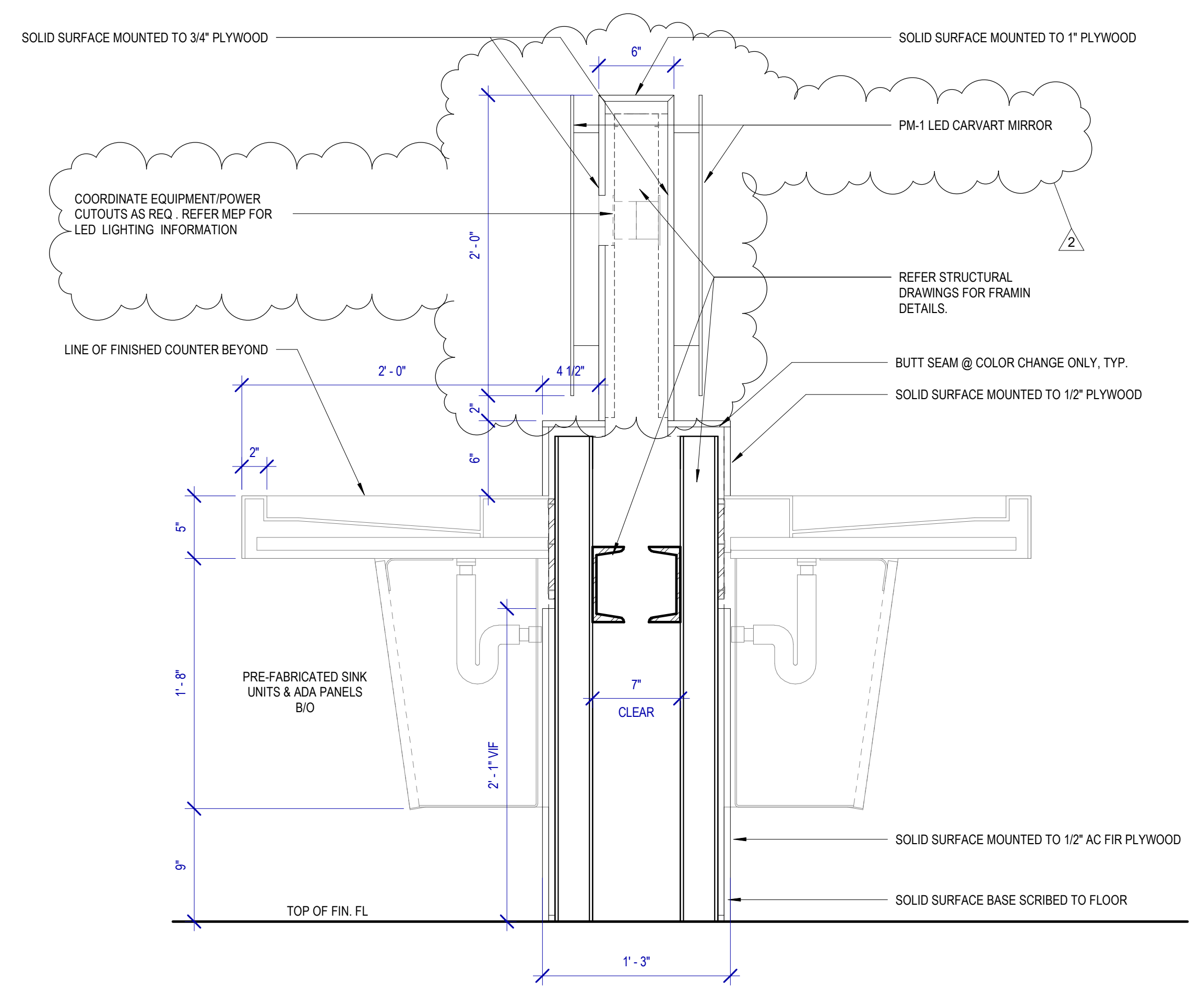
**DIRECTOR
of
HOUSTON AIRPORT SYSTEM**

Review/Approval Category
IFB
ISSUED FOR BIDDING

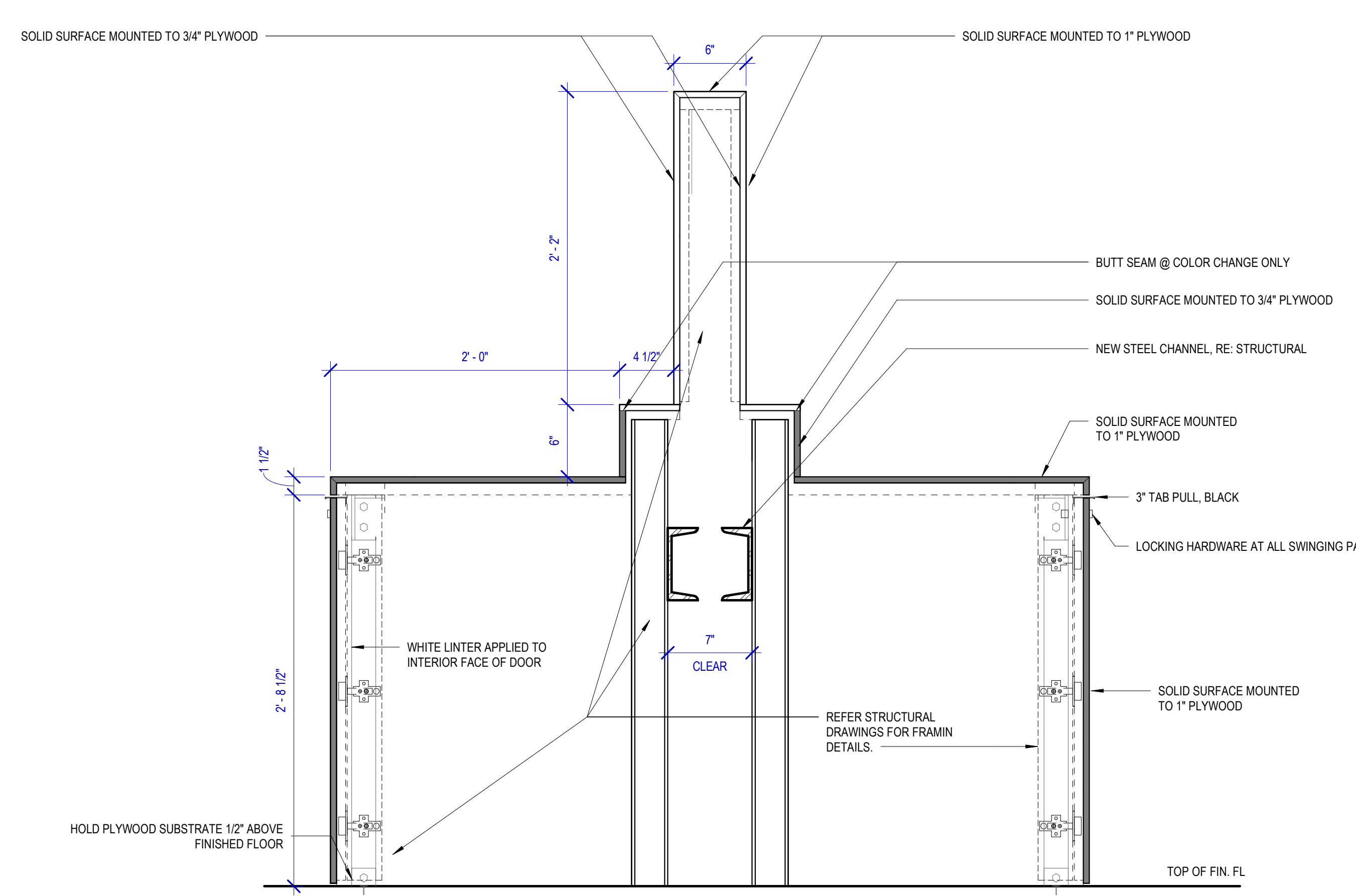
SHEET NAME:
SECTION DETAILS - LAVATORY STATION
SHEET No. A-511 SCALE: 1 1/2" = 1'-0"
SHEET SIZE: 30"x42" ARCH E1



C3 SECTION - TRASH UNIT
SCALE: 1 1/2" = 1'-0"



A1 SECTION - PRE-FAB SINK UNIT
SCALE: 1 1/2" = 1'-0"



C1 SECTION - ISLAND SWING PANEL
SCALE: 1 1/2" = 1'-0"

FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/1429.06_Hobby_Airport_Restroom_Reno_Central.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

DOOR AND DOOR SCHEDULE GENERAL NOTES

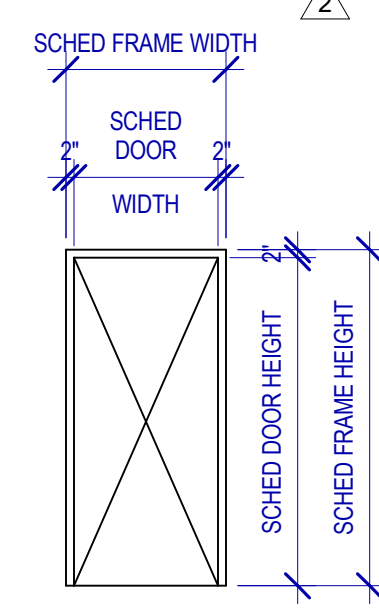
- ALL DOOR SIZES ARE TO JAMB OPENING SIZE.
- ALL UNDERCUT DOOR REQUIREMENTS FOR VARIOUS FLOOR FINISHES SHALL BE VERIFIED AND COORDINATED BY THE CONTRACTOR.
- ALL DOOR OPENINGS, FRAMES, AND HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.
- COORDINATE ALL DOORS AND DETAILS TO PROVIDE ADEQUATE CLEARANCE AND FRAME REINFORCEMENT FOR HARDWARE TYPES.
- TYPICAL DOOR BEVEL TO BE 1/8" IN 2", UNLESS NOTED OTHERWISE BY THE REQUIRED HARDWARE TEMPLATES.
- ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE OF EGRESS WITHOUT USE OF SPECIAL KNOWLEDGE OR EFFORT.
- DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE LOCATED 4" FROM THE FINISHED WALL TO OUTSIDE OF FINISHED JAMB.
- DOORS & FRAMES TO BE PAINTED TO MATCH ADJACENT WALL PAINT COLOR

DOOR SCHEDULE

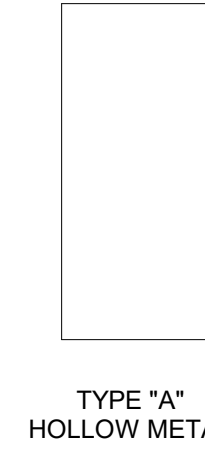
MARK	ROOM NAME	TYPE	DOOR OPENING				FIRE RATING	GLAZING TYPE	HARDWARE GROUP	DOOR FRAME			DETAILS		REMARKS			
			THICKNESS	WIDTH	HEIGHT	MATERIAL				FINISH	TYPE	HEIGHT	WIDTH	MATERIAL		FINISH	JAMB	HEAD
120	PLUMBING CHASE	A	0'-1 3/4"	2'-0"	4'-10"	HM	PT2		3.0	1	5'-0"	2'-4"	HM	PT2	C1/A-610	C2/A-610	1	
122	STORAGE	A	0'-1 3/4"	3'-0"	8'-10"	HM	PT2		4.0	1	9'-0"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604
124A	JANITOR	A	0'-1 3/4"	3'-0"	8'-10"	HM	PT2		4.0	1	9'-0"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604
124B	JANITOR	A	0'-1 3/4"	3'-0"	8'-10"	HM	PT2		2.0	1	9'-0"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604
125	PLUMBING CHASE	A	0'-1 3/4"	2'-0"	4'-10"	HM	PT2		1.0	1	5'-0"	2'-4"	HM	PT2	C1/A-610	C2/A-610	1	
126	PLUMBING CHASE	A	0'-1 3/4"	2'-0"	4'-10"	HM	PT2		1.0	1	5'-0"	2'-4"	HM	PT2	C1/A-610	C2/A-610	1	
130	ASSISTED RESTROOM	A	0'-1 3/4"	3'-0"	8'-4"	HM	PT2		5.0	1	8'-6"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604
131A	JANITOR	A	0'-1 3/4"	3'-0"	8'-10"	HM	PT2		2.0	1	9'-0"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604
131B	JANITOR	A	0'-1 3/4"	3'-0"	8'-10"	HM	PT2		4.0	1	9'-0"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604
138A	JANITOR	A	0'-1 3/4"	3'-0"	8'-10"	HM	PT2		2.0	1	9'-0"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604
138B	JANITOR	A	0'-1 3/4"	3'-0"	8'-10"	HM	PT2		2.0	1	9'-0"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604
140	ASSISTED RESTROOM	A	0'-1 3/4"	3'-0"	8'-4"	HM	PT2		5.0	1	8'-6"	3'-4"	HM	PT2	C1/A-610	C2/A-610		PROVIDE 1 ROOM SIGN REF. A-604

DOOR HARDWARE NOTES

- HARDWARE SETS REPRESENT THE DESIGN INTENT. THEY ARE A GUIDE AND SHOULD NOT BE CONSIDERED A DETAIL. HARDWARE SCHEDULE DISCREPANCIES, CONFLICTING HARDWARE AND MISSING ITEMS SHOULD BE BROUGHT TO THE ATTENTION WITH THE ARCHITECT WITH CORRECTIONS MADE. OMITTED ITEMS NOT INCLUDED SHOULD BE SCHEDULED WITH THE APPROPRIATE ADDITIONAL HARDWARE REQUIRED FOR PROPER APPLICATION AND FUNCTIONALITY.
- ALWAYS FREE EGRESS, INGRESS WITH VALID CREDENTIAL.
- MANUFACTURERS LISTED ARE A BASIS OF DESIGN. ABBREVIATIONS USED IN THE LISTED SETS INCLUDE:
MK - MCKINNEY
RO - ROCKWOOD
BE - DORMAKABA BEST
OT - OTHER
RF - RIXSON
NO - NORTON



FRAME TYPE ELEVATIONS
SCALE: 1/4" = 1'-0"



DOOR TYPE ELEVATIONS
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE REMARKS LEGEND

- EXISTING DOOR TO BE RELOCATED. REPAINT AND APPLY NEW HARDWARE.

MATERIAL & FINISH KEY

DIVISION 3 - CONCRETE

MORTAR
ME1
SIKAQUICK® SMOOTH FINISH - LIGHTWEIGHT MORTAR FOR CONCRETE REPROFILING - COLOR: PRECAST GREY. SEAL WITH SIKAGUARD 740 W.

DIVISION 5 - METALS

METAL PANELS
MP1
STAINLESS STEEL WALL PANEL, 11/12 GAUGE MN.

DIVISION 8 - OPENINGS

MIRROR
SLS3
6MM SILVERED FLAT GLASS MIRROR. SECURE TO WALL WITH CONSTRUCTION ADHESIVE

DIVISION 9 - FINISHES

SOLID SURFACE
CS1
CORIAN - SOLID SURFACE - GLACIER WHITE
CS2
CORIAN - SOLID SURFACE - CARBON CONCRETE

CEILING

MC1
GORDON - R116-764ST23 23% OPENING AV-3000 GRID, NO REVEAL - 2' X 4', 1/4" SOLID BORDER - PDR30113 ACROGUARD BIANCO MILL FINISH

REMARKS: 1/16" HOLES X 7/64" STRAIGHT CIRCLES W/ 1" X 1 1/2# DENSITY BLACK ACOUSTICAL PADS.

MC2

TURKEY KEY CEILING
MC1
PANEL SIZE: 3 1/2" LINEAR PANELS
MATERIAL: 0.040" THICK ALUMINUM WITH 1" UPTURNS
PERF SPEC: R116-764ST23 (SEE PERF DETAIL MC-3 THIS SHEET)
FINISH: EXPOSED SURFACES POWDER COATED ACROGUARD PDR-30803 (STERLING)
INSULATION: 1" X 1 1/2# DENSITY BLACK PVC ACOUSTICAL PADS
IN-FILL PANELS SHIPPED STOCK LENGTHS FOR FIELD CUTTING.

MC3

TURKEY KEY CEILING
MC1
PANEL SIZE: 6" LINEAR PANELS
MATERIAL: 0.040" THICK ALUMINUM WITH 1" UPTURNS
PERF SPEC: R116-332D12 (SEE PERF DETAIL MC-3 THIS SHEET)
FINISH: EXPOSED SURFACES POWDER COATED ACROGUARD PDR-30803 (STERLING)
INSULATION: 1" X 1 1/2# DENSITY BLACK PVC ACOUSTICAL PADS
IN-FILL PANELS SHIPPED STOCK LENGTHS FOR FIELD CUTTING.

ACT1

ARMSTRONG ULTIMA 2' X 2' ACOUSTICAL CEILING TILE, SUPRAFINE XL SUSPENSION SYSTEM

WALL FINISH

WP01
TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K05.0.0 PURE WHITE
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL

WP02

TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K21.1.0 WINTER GRAY
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL

WP03

TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K21.5.1 MID GRAY
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL

WP04

TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - KNA18 NATURAL SLATE
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL

WP05

TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K32.2.1 TRANSLUCENT GREEN SATIN
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL

WP06

TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K24.4.1 STEEL BLUE
REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL

PAINT

PT01
TBD - MATTE - CEILING WHITE - STANDARD CEILING
PT02
SHERWIN WILLIAMS - DIRECT TO METAL/SEMI-GLOSS - TRICORN BLACK
REMARKS: ALL NEW AND EXISTING DOORS

PT03

SHERWIN WILLIAMS - SW 9165 GOSSAMER VEIL - EGGSHHELL FINISH

PAINT SPECIALTY

PTS1
GAGE ARCH PRODUCTS - GM4225 (FRC) (METAL FRAMES)

TILE

TL1
CROSSVILLE LAMINAM - GAUGED PORELAIN TILE - 1M X 3M X 5.6MM THK - SALE
REMARKS: STACKED INSTALLATION. GROUT TO BE MIN. THK PER MFR. COLOR TO BE SELECTED BY MFR FULL RANGE

TL2

CROSSVILLE LAMINAM - GAUGED PORELAIN TILE - 1M X 3M X 5.6MM THK - PIOMBO (ACCENT)
REMARKS: STACKED INSTALLATION. GROUT TO BE MIN. THK PER MFR. COLOR TO BE SELECTED BY MFR FULL RANGE

TL3

CROSSVILLE LAMINAM - GAUGED PORELAIN TILE - 1M X 3M X 5.6MM THK - FUMO
REMARKS: STACKED INSTALLATION. GROUT TO BE MIN. THK PER MFR. COLOR TO BE SELECTED BY MFR FULL RANGE

TL4

CROSSVILLE LAMINAM - GAUGED PORELAIN TILE - 1M X 3M X 3+MM THK - ARGENTO
REMARKS: VERTICAL INSTALLATION MOUNTED TO SUBSTRATE & USED W/ WALL PANEL SYSTEMS FACEMOUNT SYSTEM

TL5

DALTILE VOLUME 1.0 - GLAZED PORELAIN TILE - 12 X 24 FLOOR TILE - STEREO GREY
REMARKS: VERTICAL INSTALLATION MOUNTED TO SUBSTRATE & USED W/ WALL PANEL SYSTEMS FACEMOUNT SYSTEM

TL6

DALTILE VOLUME 1.0 - GLAZED PORELAIN TILE - 12 X 24 WALL TILE - SONIC WHITE
REMARKS: CUT IN FIELD 12". ALIGN GROUT JOINTS W FLOOR TILE. MIN. THK PER MFR. COLOR SELECTED BY MFR FULL RANGE

TL8

DALTILE VOLUME 1.0 - GLAZED PORELAIN TILE - COVE BASE 6 X 12 - STEREO GREY
REMARKS: CUT IN FIELD 12". ALIGN GROUT JOINTS W FLOOR TILE. MIN. THK PER MFR. COLOR SELECTED BY MFR FULL RANGE

DIVISION 13 - SPECIALTIES

TOILET PARTITIONS

TP1

MANUFACTURER - MODEL - COLOR

P21

CARVART - COLOR GLASS BOXES WITH PHENOLIC DIVIDER PANELS
DOORS: B07 IVORY, OPAQUE, SMOOTH OUTSIDE, ETCHED INSIDE, LADDER PULL HARDWARE (SATIN ALUMINUM); PULL HARDWARE WITH OCCUPANCY DIVIDER PANELS: C-HPL PHENOLIC PANEL. COLOR: 406 WHITE NON-GLOSSY FINISH
REMARKS: INDICATOR, CONTINUOUS CONCEALER @ DOOR EDGES, OUT-SWINGING DOOR ON PIVOT HINGE; W/ ROTATING FLOOR PEDESTAL.

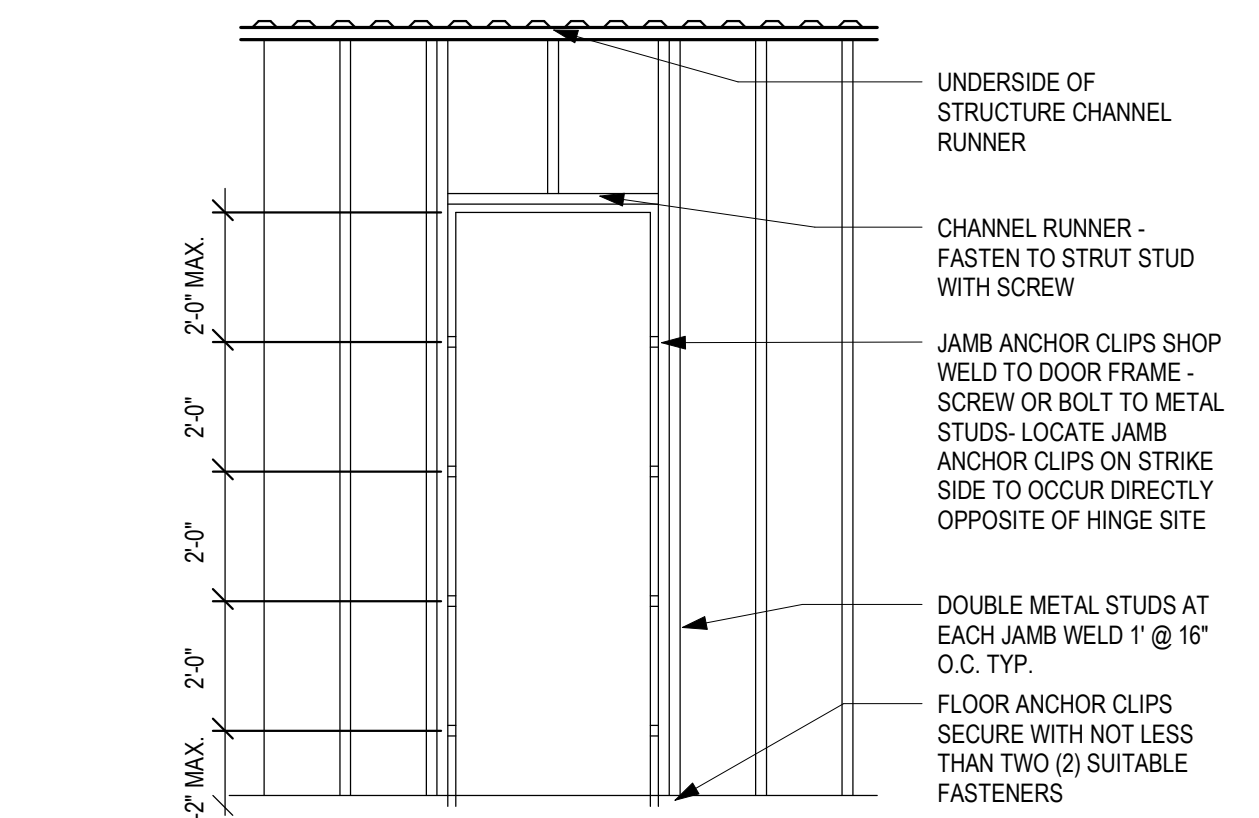
P22

CARVART - COLOR GLASS BOXES - IVORY, OPAQUE, NON-GLOSSY SATIN ALUMINUM - 36" H X 18" D
REMARKS: MEN'S RESTROOMS, URINAL PARTITION, CHROME MOUNTING BRACKET TO BE SAND-BLASTED TO COUNTER HIGH REFLECTIVITY

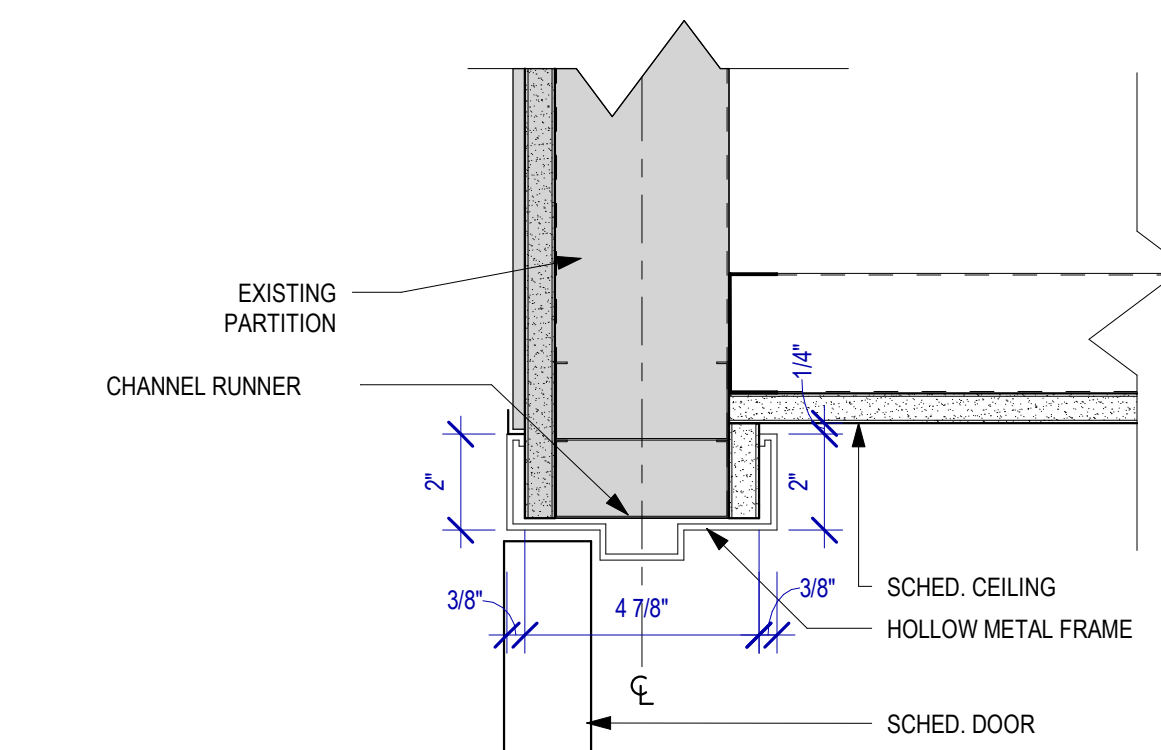
WINDOW VINYL

WV01

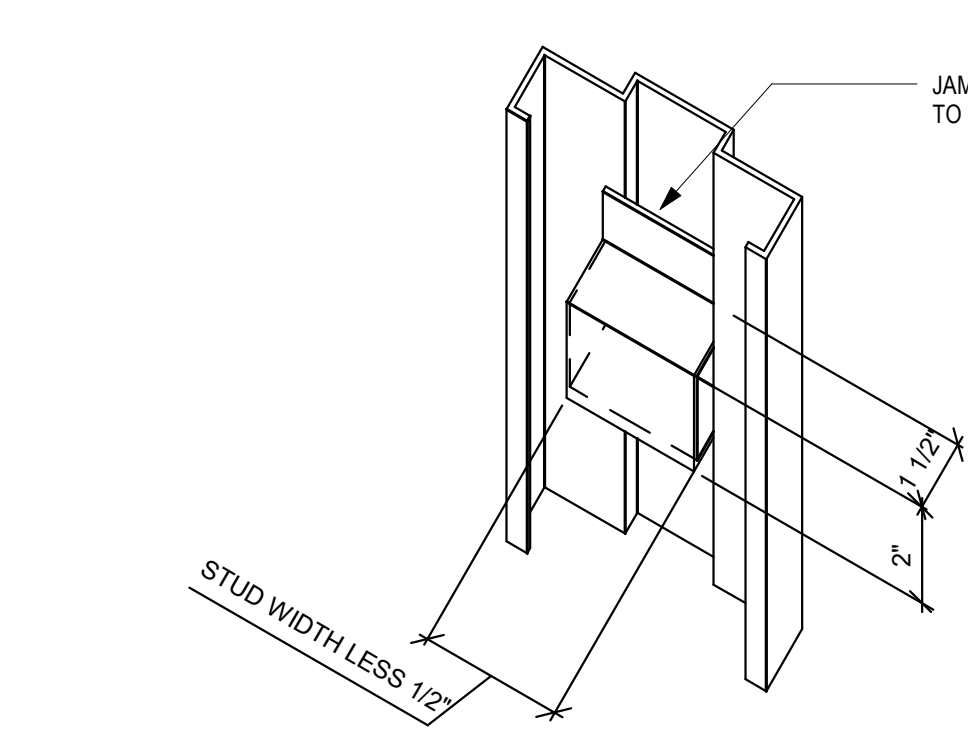
GRADIENT DOT WINDOW VINYL @ EXTERIOR WINDOW, MANF: 3M, COLOR: WHITE. RE: INTERIOR ELEVATIONS



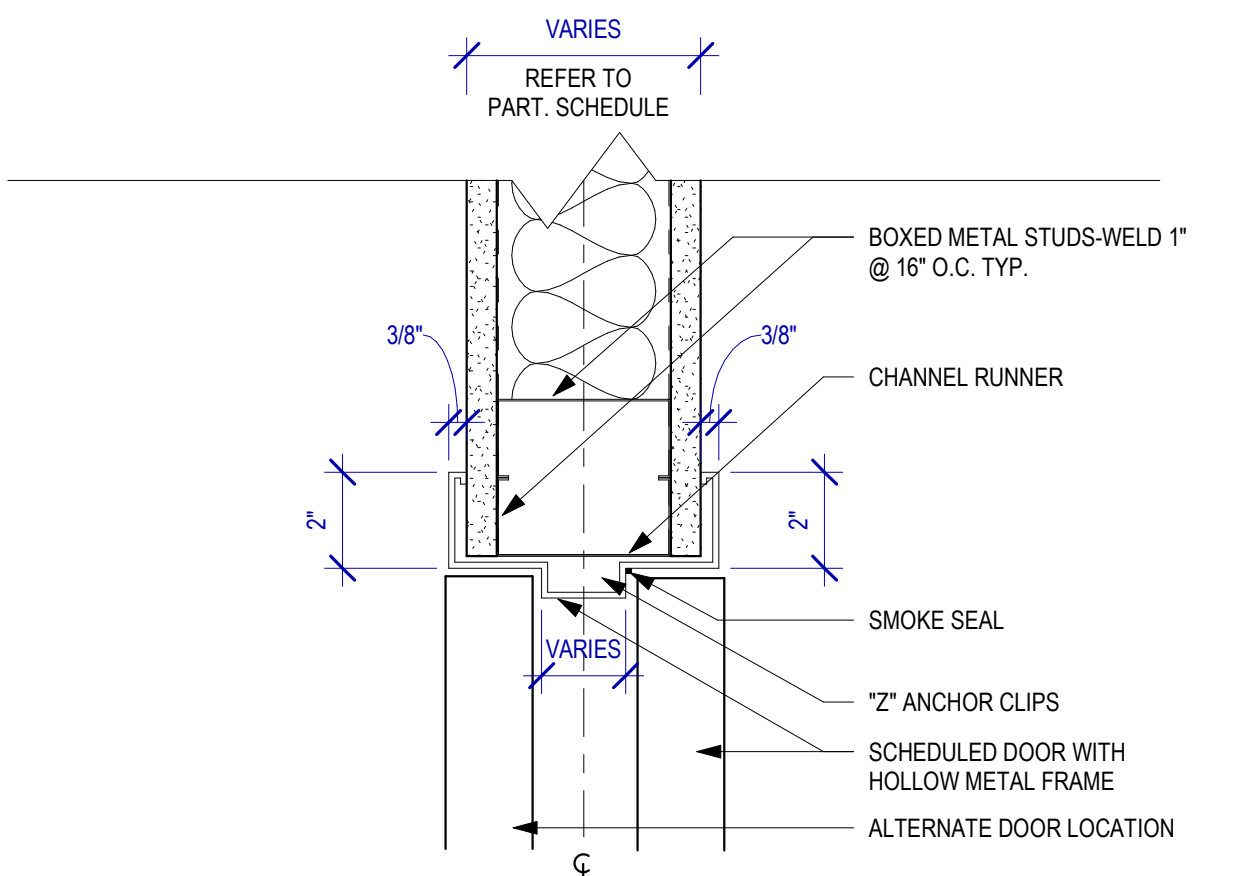
A3 DRYWALL FRAME INSTALLATION
SCALE: 3/8" = 1'-0"



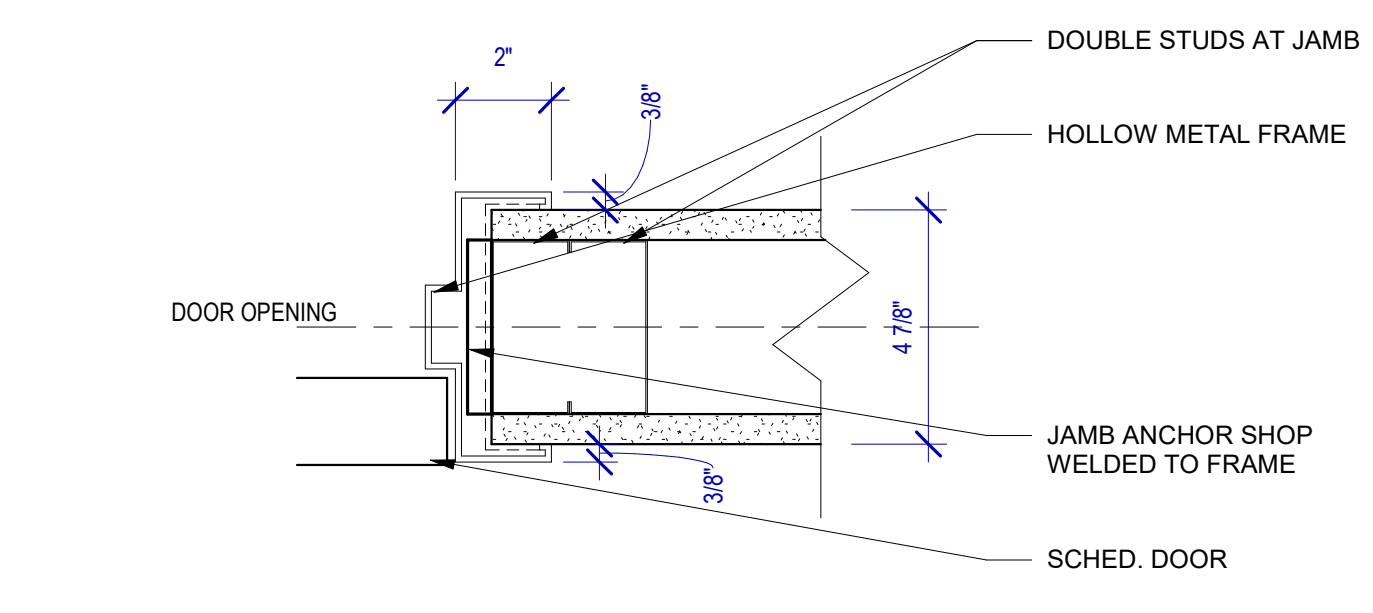
B3 DOOR HEAD AT GYP WALL
SCALE: 3/8" = 1'-0"



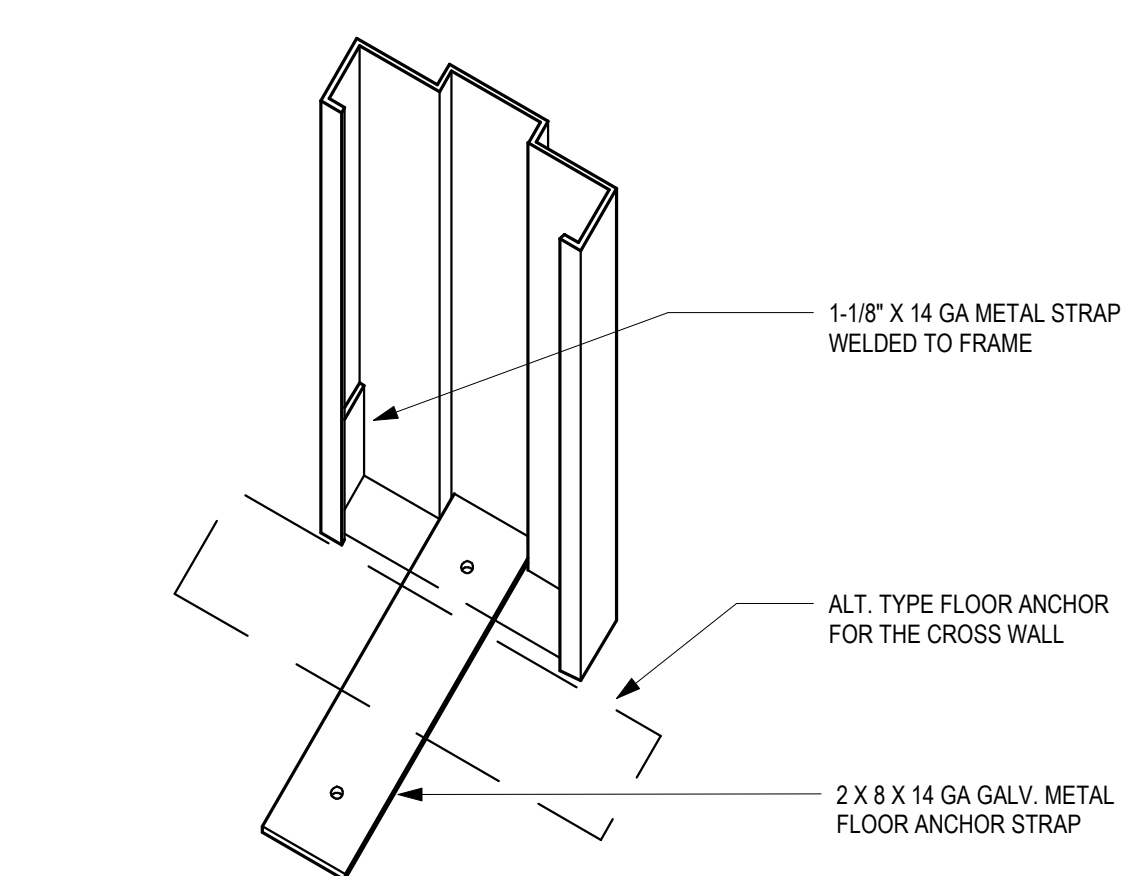
C3 TYPICAL JAMB METAL STUD FRAMING
SCALE: 3/8" = 1'-0"



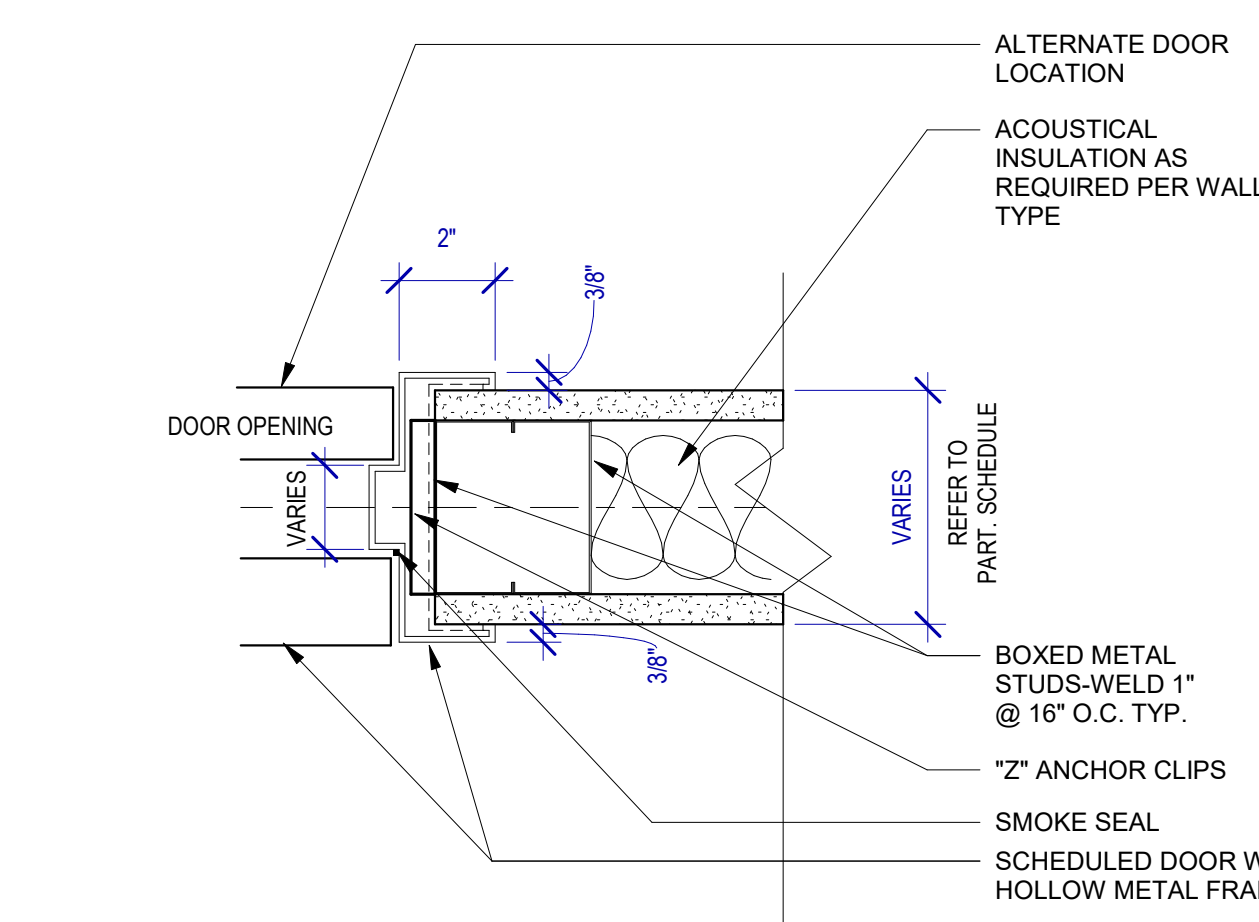
A2 DOOR HEAD W/ ACOUS SEAL
SCALE: 3/8" = 1'-0"



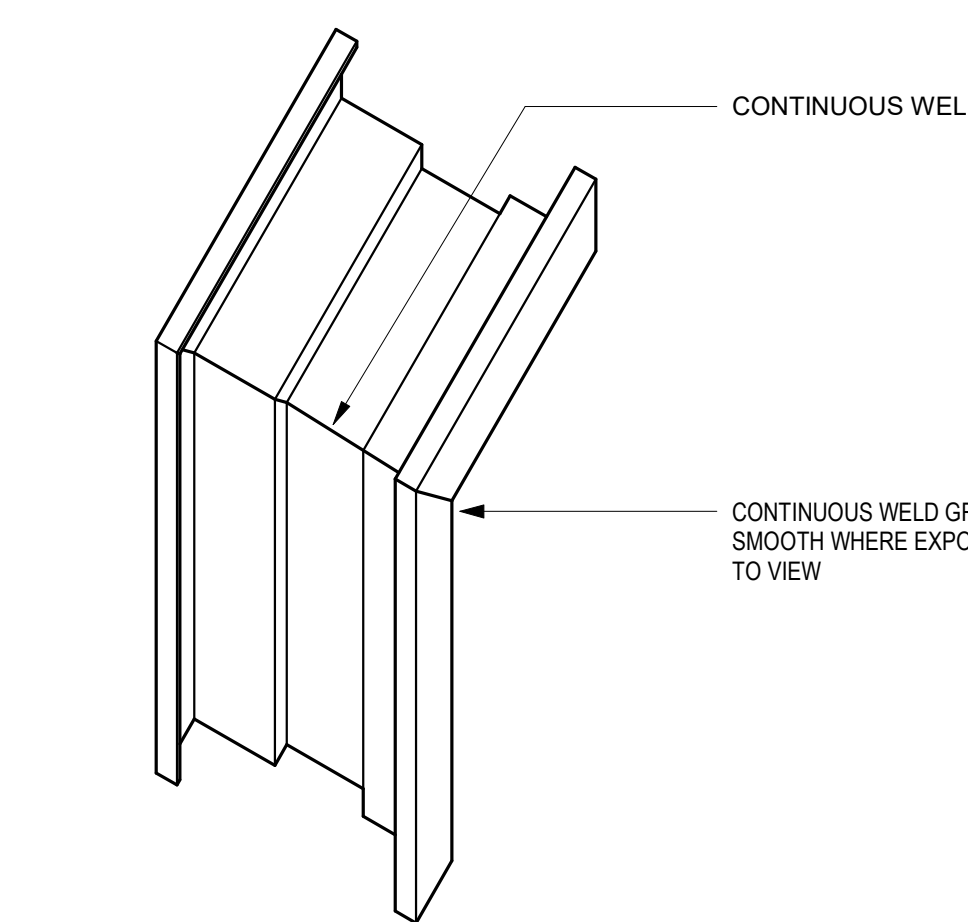
B2 DOOR JAMB AT GYP WALL
SCALE: 3/8" = 1'-0"



C2 TYPICAL FRAME ANCHOR
SCALE: 3/8" = 1'-0"



A1 DOOR JAMB W/ ACOUS SEAL
SCALE: 3/8" = 1'-0"



B1 TYPICAL FRAME CORNER
SCALE: 3/8" = 1'-0"



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects

ARCHITECTURE PLANNING INTERIORS
800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



HENDERSON ROGERS structural engineers

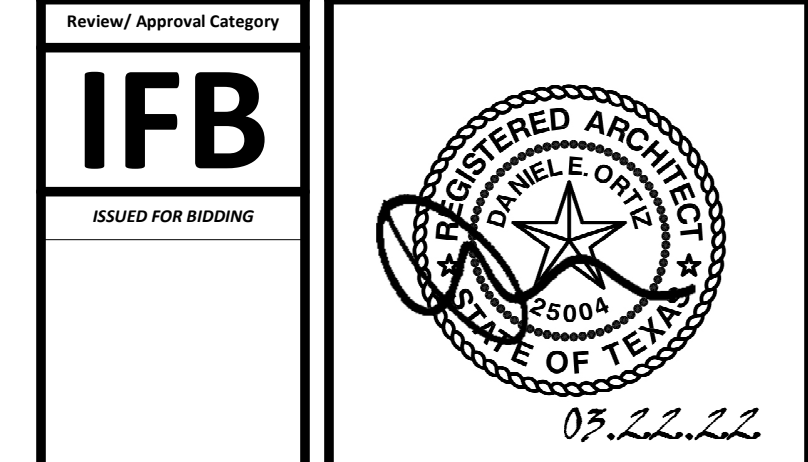
2603 Augusta, Suite 800 Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issued For Bidding	03.22.22	HB
2	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03.22.2022
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

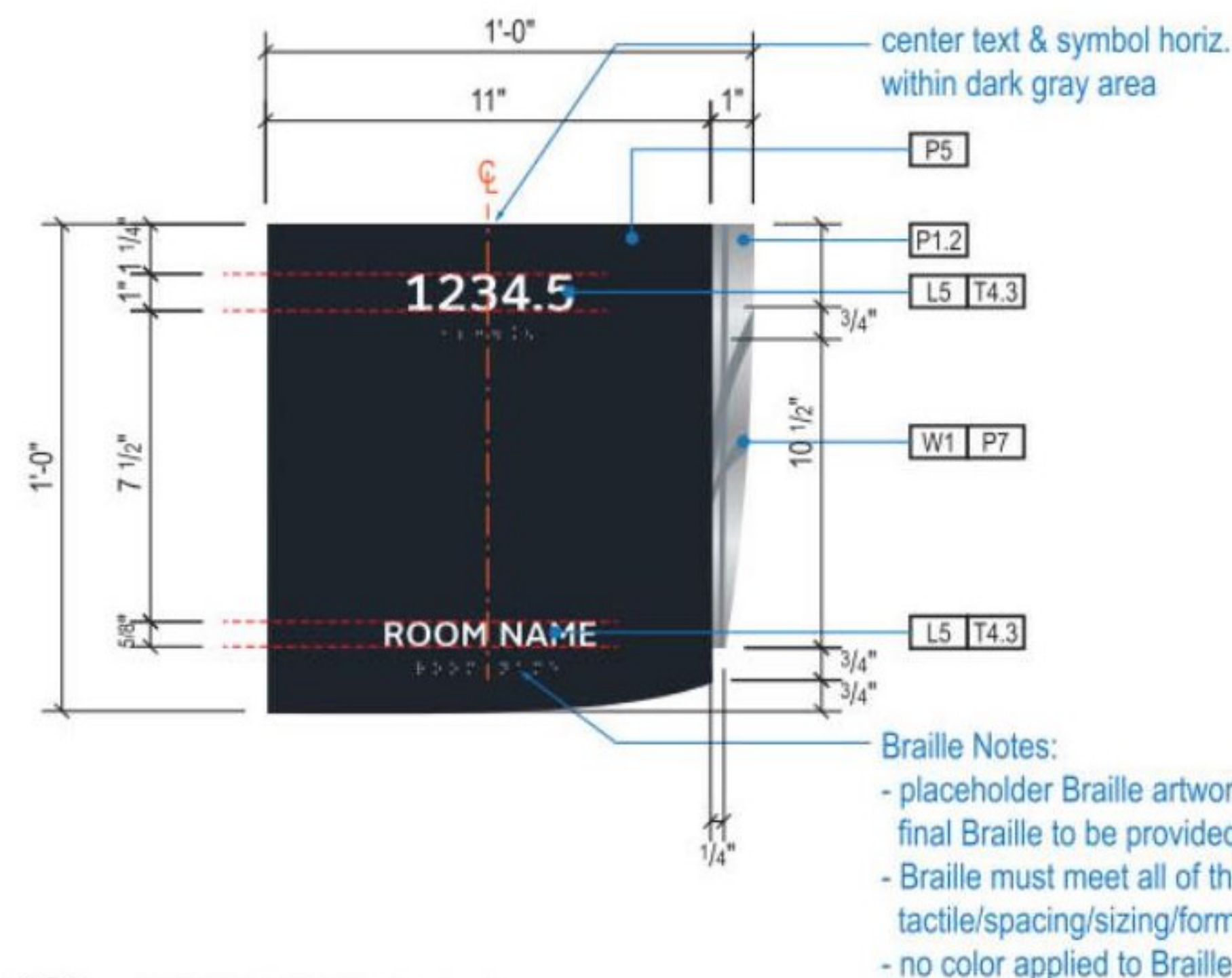
DIRECTOR of HOUSTON AIRPORT SYSTEM



SHEET NAME: MATERIAL LEGEND, DOOR SCHEDULE AND DETAILS
SHEET No. A-600 SCALE: As indicated

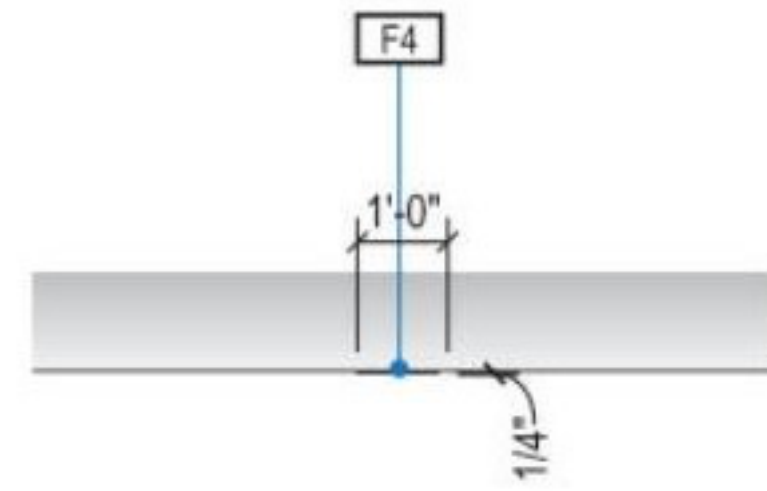
SHEET SIZE: 30"x42" ARCH E1

NOTE:
PROVIDE 16 ROOM SIGNS, REFER DOOR SCHEDULE FOR LOCATION.

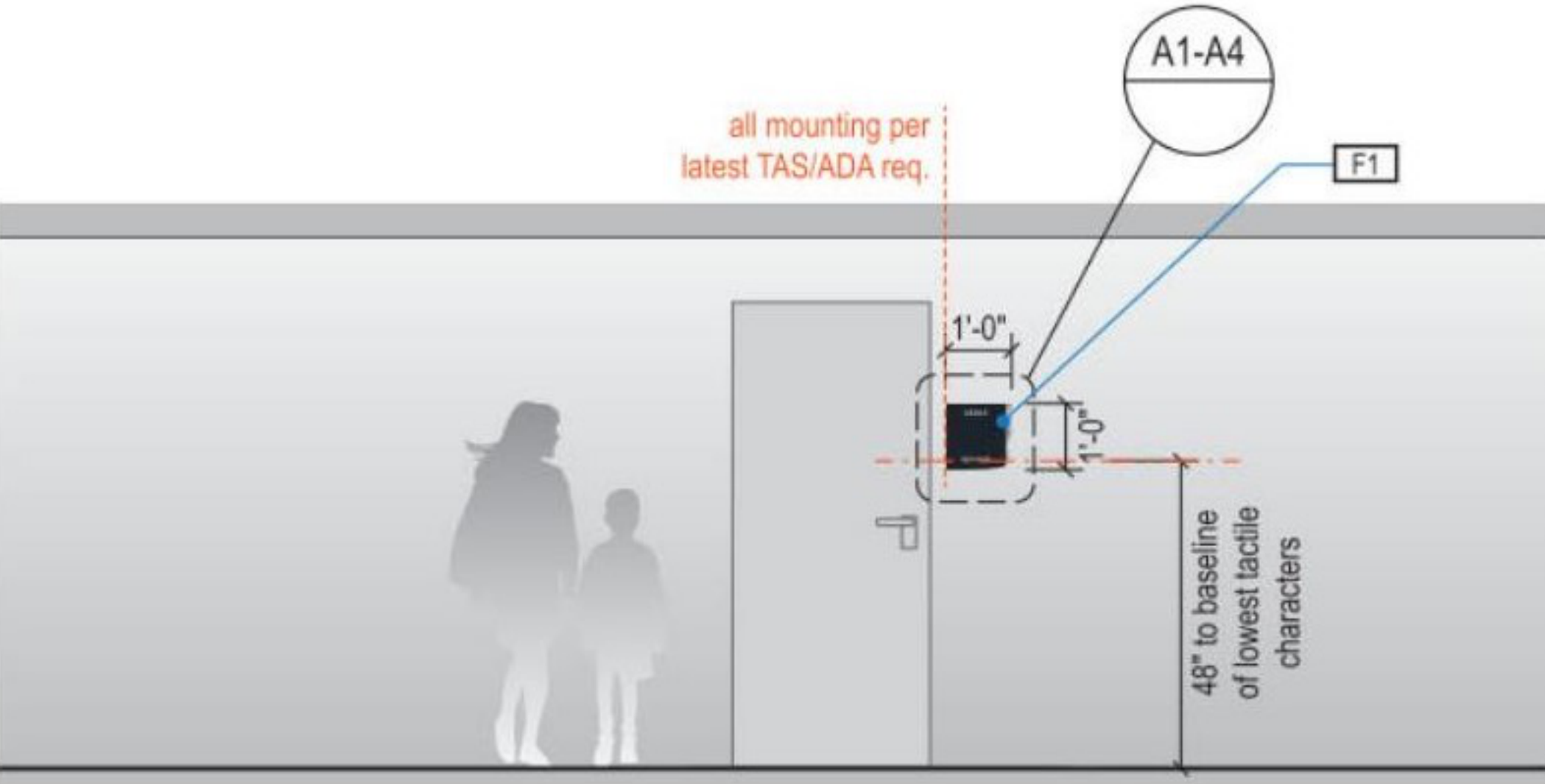


Braille Notes:
- placeholder Braille artwork/characters shown; final Braille to be provided by Fabricator
- Braille must meet all of the most recent TAS/ADA tactile/spacing/sizing/formatting requirements
- no color applied to Braille

A1 FACE LAYOUT: Typical



1 PLAN VIEW



2 ELEVATION

GENERAL NOTES

- All final design, engineering and amount/sizing of structural sign support elements, material types/thicknesses, dimensions and attachment methods shall be performed and approved by a licensed engineer to meet or exceed all applicable local and national codes.
- Final engineering, dimensions, materials and fabrication are the responsibility of the Contractor/Fabricator/Installer to ensure the highest quality fit and finish for all components of the completed product. All final detailing and specifications to be provided by the Contractor/Fabricator/Installer within their final approved fabrication-ready shop drawings.
- Wherever dissimilar metals are in contact, always separate contact surfaces prior to assembly or installation with the necessary protective coatings/gaskets/washers to prevent galvanic corrosion.
- Final fabrication methods, quality and fit/finish to be reviewed and approved by HAS and the Wayfinding Design Consultants through prototype reviews prior to final production run/installation processes.
- Colors shown are for reference only, and are subject to the limitations of the printing process and/or variance of electronic RGB screen displays. Refer to color system swatches and/or final finish samples for accurate reference.
- Messages shown here are typical placeholders only. See message schedules for specific messaging by location and sign type.

DESIGN INTENT NOTES

- F1 SIGN PANEL: 1/4" thick thermoformed acrylic panel, edges sanded smooth & eased, paint 2nd surface to match MAP paint P5, satin finish; screen paint watermark graphic 2nd surface to match P1.2 & P7, satin finish; 1st surface 1/32" raised tactile letters/graphics painted to match MAP paint P4, satin finish; 1st surface tactile Braille, no color applied (NOTE: Braille must meet all of the most recent TAS/ADA tactile/spacing/sizing/formatting requirements)
- F4 MOUNTING: mounting height and location/proximity to doors, strike plates & finished entry openings per most recent TAS/ADA requirements; mount plumb & level with adhesive/high-bond strength sign grade VHB tape (or approved equal) as install cond. req. (field verify)

LETTERING (TYPEFACES) / SYMBOLS / ARROWS:

- L5 Pedestrian Wayfinding Typeface: ClearviewText Medium
- L6 Supplemental Typeface: Clearview One Book Condensed
- S1 Arrow(s): use only official HAS wayfinding arrows
- S2 Universal Symbols: use only official HAS wayfinding symbols
- W1 Watermark Graphic: use only official HAS "globe" vector art

COLORS:

- NOTES: "D" = digitally printed colors on 3M 7725-20 White unless otherwise noted; "P" = Matthews Acrylic Polyurethane (MAP) paint (or equal), satin finish; "V" = 3M vinyl films (or equal); "T" = tactile
- V4.1 White: 3M 7725-20 White Opaque
 - D5 Dark Gray: match PMS 433C
 - D6 Med. Dark Gray: match PMS 432C
 - D13 Green (Ecopark): match PMS 349C
 - D17 Blue (Garage): match PMS 300C
 - D19 Red (Garage): match PMS 187C
 - P1.2 Silver: MAP paint MP33172 Silver Surfer Metallic
 - P4 White: MAP paint MP N202 White
 - P5 Dark Gray: MAP paint matched to PMS 433C
 - P7 Neutral Watermark: MAP paint matched to PMS 430C
 - T4.3 Tactile White: White to match V4.1

HOUSTON AIRPORTS
7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Addendum 4	07.22.22	HB

DESIGN BY: KATHERINE DOMINGUEZ
DRAWN BY: HECTOR BERRIOS
CHECKED BY: DANIEL ORTIZ
ISSUE DATE: 03/22/22
APPROVED BY: DANIEL ORTIZ
APPROVAL DATE: 03.22.2022

DIRECTOR of HOUSTON AIRPORT SYSTEM

ISSUED FOR BIDDING

REGISTERED ARCHITECT DANIEL ORTIZ STATE OF TEXAS 07.22.22

SHEET NAME: ROOM SIGNAGE

SHEET No. A-604 SCALE:

SHEET SIZE: 30"x42" ARCH E1

A

B

C

D

E

Branch Panel: C1HM

Location:
 Supply From:
 Mounting: SURFACE
 Enclosure: Type 1

Volts: 480/277 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating:
 Mains Type: MCB
 Mains Rating: 225 A
 MCB Rating: 225 A

Notes:

EXISTING PANEL

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT
1	Existing Load	20 A	1	2000...	3500...			1	20 A		Existing Load	2
3	Existing Load	20 A	1		3000...	2500...		1	20 A		Existing Load	4
5	Existing Load	20 A	1				2000...	3000...	1	20 A	Existing Load	6
7	Existing Load	20 A	1	3000...	450 VA			1	20 A		Existing Load	8
9	Existing Load	20 A	1		2500...	3500...		1	20 A		Existing Load	10
11	Existing Load	20 A	1				3500...	2000...	1	20 A	Existing Load	12
13	Existing Load	20 A	1	3500...	720 VA			1	20 A		Existing Load	14
15	Existing Load	20 A	1		1700...	700 VA		1	20 A		Existing Load	16
17	Existing Load	20 A	1				2720...	2200...	1	20 A	Existing Load	18
19	Existing Load	20 A	1	2980...	3000...			1	20 A		Existing Load	20
21	Spare	--	20 A	1		0 VA	1500...		1	20 A	Existing Load	22
23	Spare	--	20 A	1			0 VA	3200...	1	20 A	Existing Load	24
25	Spare	--	20 A	1	0 VA	0 VA			1	20 A	-- Spare	26
27	Spare	--	20 A	1		0 VA	0 VA		1	20 A	-- Spare	28
29	Spare	--	20 A	1			0 VA				-- Spare	30
31	Spare	--	20 A	1	0 VA						-- Spare	32
33	Spare	--	20 A	1		0 VA	0 VA		1	20 A	-- Spare	34
35	Spare	--	20 A	1			0 VA	0 VA	1	20 A	-- Spare	36
37	Existing Load	100 A	3	2500...	0 VA			1	20 A		-- Spare	38
39	--	--	--	--	2500...	0 VA		1	20 A		-- Spare	40
41	--	--	--	--		25000...	0 VA	1	20 A		-- Spare	42
Total Load:					44150 VA	40400 VA	43620 VA					
Total Amps:					161 A	146 A	159 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Existing Load	75000 VA	125.00%	93750 VA	
Power	53170 VA	100.00%	53170 VA	
				Total Conn. Load: 128170 VA
				Total Est. Demand: 146920 VA
				Total Conn.: 154 A
				Total Est. Demand: 177 A

Notes:

Branch Panel: C1HP

Location:
 Supply From:
 Mounting: SURFACE
 Enclosure: Type 1

Volts: 480/277 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating:
 Mains Type: MCB
 Mains Rating: 225 A
 MCB Rating: 225 A

Notes:

EXISTING PANEL

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT		
1	EXISTING PERIMETER CANOPY LGTS	--	20 A	1	0 VA	0 VA			1	20 A	--	EXISTING CORR & BATHROOM LGTS	2	
3	EXISTING MECH & ELEC RM LGTS	--	20 A	1		0 VA	0 VA			1	20 A	--	EXISTING COVERED AREA LGTS SOUTH	4
5	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	EXISTING COVERED AREA LGTS NORTH	6
7	EXISTING	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING COVERED AREA LGTS	8
9	SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	10
11	EXISTING NORTH CATWALK NORTH SIDE	--	20 A	1				0 VA	0 VA	1	20 A	--	EXISTING L2 SW AREA	12
13	EXISTING NORTH CATWALK NORTH SIDE	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING L2 SW AREA	14
15	EXISTING NORTH CATWALK NORTH SIDE	--	20 A	1			0 VA	0 VA		1	20 A	--	EXISTING NORTH CATWALK UPLGTS...	16
17	EXISTING SOUTH CATWALK NORTH SIDE	--	20 A	1				0 VA	0 VA	1	20 A	--	EXISTING NORTH CATWALK UPLGTS...	18
19	EXISTING SOUTH CATWALK NORTH SIDE	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING NORTH CATWALK UPLGTS...	20
21	EXISTING COLUMN NORTH AND BR LGTS	--	20 A	1			0 VA	0 VA		1	20 A	--	EXISTING BULKHEAD DN LGTS NORTH	22
23	EXISTING MENS & WOMENS BR LGTS	--	20 A	1				0 VA	0 VA	1	20 A	--	EXISTING BULKHEAD DN LGTS NORTH	24
25	EXISTING HOLD RM PDT. LGTS NORTH	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING BULKHEAD DN LGTS NORTH	26
27	EXISTING BULKHEAD DN LGTS NORTH	--	20 A	1			0 VA	0 VA		1	20 A	--	EXISTING HOLD ROOM PDT LGTS NORTH	28
29	EXISTING BULKHEAD DN LGTS NORTH	--	20 A	1				0 VA	0 VA	1	20 A	--	EXISTING HOLD ROOM PDT LGTS NORTH	30
31	EXISTING BULKHEAD DN LGTS NORTH	--	20 A	1	0 VA	0 VA				1	20 A	--	EXISTING COLUMN & GATE COUNTER EAST	32
33	EXISTING SOUTH BULKHEAD DN LGTS	--	20 A	1			0 VA	0 VA		1	20 A	--	EXISTING BULKHEAD DN AND LOBBY LGTS	34
35	EXISTING BULKHEAD DN LGTS SOUTH	--	20 A	1				0 VA	0 VA	1	20 A	--	EXISTING SOUTH CATWALK UPLGTS S...	36
37	EXISTING XFMR C1TP	--	100 A	3	0 VA	0 VA				1	20 A	--	EXISTING SOUTH CATWALK UPLGTS S...	38
39	--	--	--	--	--	--	0 VA	0 VA		1	20 A	--	EXISTING SOUTH CATWALK UPLGTS S...	40
41	--	--	--	--	--	--		0 VA	0 VA	1	20 A	--	EXISTING SOUTH CATWALK UPLGTS S...	42
Total Load:					0 VA	0 VA	0 VA							
Total Amps:					0 A	0 A	0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Existing Load				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A

Notes:

Branch Panel: L1

Location: JANITOR 124
 Supply From: T1
 Mounting: SURFACE
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 10000
 Mains Type: MLO
 Mains Rating: 200 A
 MCB Rating: 150 A

Notes:

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT	
1	PAPER TOWEL DISPENSER	#12	20 A	1	900 VA	1080...		1	20 A	#12	PAPER TOWEL DISPENSER	2	
3	TOILET SENSOR	#12	20 A	1		900 VA	360 VA	1	20 A	#12	SOAP/WATER FAUCET SENSOR	4	
5	SOAP/WATER FAUCET SENSOR	#12	20 A	1	180 VA	180 VA		1	20 A	#12	HAND DRYER	6	
7	HAND DRYER	#12	20 A	1	180 VA	180 VA		1	20 A	#12	HAND DRYER	8	
9	HAND DRYER	#12	20 A	1	180 VA	360 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	10	
11	HAND DRYER	#12	20 A	1			180 VA	180 VA	1	20 A	#12	HAND DRYER	12
13	SOAP/WATER FAUCET SENSOR	#12	20 A	1	720 VA	180 VA		1	20 A	#12	HAND DRYER	14	
15	HAND DRYER	#12	20 A	1		180 VA	180 VA		1	20 A	#12	HAND DRYER	16
17	HAND DRYER	#12	20 A	1			180 VA	360 VA	1	20 A	#12	RECEPTACLE	18
19	TOILET SENSOR	#12	20 A	1	720 VA	540 VA		1	20 A	#12	TOILET SENSOR	20	
21	TOILET SENSOR	#12	20 A	1	900 VA	360 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	22	
23	HAND DRYER	#12	20 A	1			180 VA	180 VA	1	20 A	#12	HAND DRYER	24
25	SOAP/WATER FAUCET SENSOR	#12	20 A	1	540 VA	180 VA		1	20 A	#12	HAND DRYER	26	
27	HAND DRYER	#12	20 A	1		180 VA	180 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	28
29	HAND DRYER	#12	20 A	1			180 VA	180 VA	1	20 A	#12	HAND DRYER	30
31	HAND DRYER	#12	20 A	1	180 VA	180 VA		1	20 A	#12	HAND DRYER	32	
33	SOAP/WATER FAUCET SENSOR	#12	20 A	1	180 VA	180 VA		1	20 A	#12	HAND DRYER	34	
35	HAND DRYER	#12	20 A	1			180 VA	180 VA	1	20 A	#12	RECEPTACLE	36
37	TOILET SENSOR	#12	20 A	1	720 VA	720 VA		1	20 A	#12	TOILET SENSOR	38	
39	RECEPTACLE	#12	20 A	1		900 VA	180 VA		1	20 A	#12	RECEPTACLE	40
41	RECEPTACLE	#12	20 A	1			180 VA	720 VA	1	20 A	#12	RECEPTACLE	42
43	STALL OCCUPANCY LIGHTS 121,126	#12	20 A	1	180 VA	8280...		3	100 A		PANEL L2	44	
45	Spare	--	20 A	1	0 VA	9360...		--	--	--	--	--	46
47	Spare	--	20 A	1			0 VA	6840...	--	--	--	--	48
49	Spare	--	20 A	1	0 VA	0 VA			--	--	--	--	50
51	Spare	--	20 A	1		0 VA	0 VA		1	20 A	--	--	52
53	Spare	--	20 A	1			0 VA	0 VA	1	20 A	--	--	54
Total Load:					15480 VA	14580 VA	10260 VA						
Total Amps:					135 A	127 A	86 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	32580 VA	100.00%	32580 VA	
Receptacle	7740 VA	100.00%	7740 VA	
				Total Conn. Load: 40320 VA
				Total Est. Demand: 40320 VA
				Total Conn.: 112 A
				Total Est. Demand: 112 A

Notes:

Branch Panel: L2

Location: JANITOR 131
 Supply From: L1
 Mounting: SURFACE
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating:
 Mains Type: MLO
 Mains Rating: 100 A
 MCB Rating:

Notes:

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT	
1	TOILET SENSOR	#12	20 A	1	180 VA	180 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	2	
3	HAND DRYER	#12	20 A	1		180 VA	180 VA	1	20 A	#12	HAND DRYER	4	
5	SOAP/WATER FAUCET SENSOR	#12	20 A	1			180 VA	180 VA	1	20 A	#12	HAND DRYER	6
7	HAND DRYER	#12	20 A	1	180 VA	180 VA		1	20 A	#12	HAND DRYER	8	
9	HAND DRYER	#12	20 A	1	180 VA	180 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	10	
11	RECEPTACLE	#12	20 A	1			180 VA	180 VA	1	20 A	#12	HAND DRYER	12
13	HAND DRYER	#12	20 A	1	180 VA	180 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	14	
15	PAPER TOWEL DISPENSER	#12	20 A	1	720 VA	180 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	16	
17	HAND DRYER	#12	20 A	1			180 VA	180 VA	1	20 A	#12	HAND DRYER	18
19	RECEPTACLE	#12	20 A	1	180 VA	900 VA		1	20 A	#12	TOILET SENSOR	20	
21	TOILET SENSOR	#12	20 A	1	540 VA	720 VA		1	20 A	#12	TOILET SENSOR	22	
23	SOAP/WATER FAUCET SENSOR	#12	20 A	1			180 VA	180 VA	1	20 A	#12	HAND DRYER	24
25	HAND DRYER	#12	20 A	1	180 VA	180 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	26	
27	HAND DRYER	#12	20 A	1		180 VA	180 VA		1	20 A	#12	HAND DRYER	28
29	HAND DRYER	#12	20 A	1			180 VA	180 VA	1	20 A	#12	HAND DRYER	30
31	SOAP/WATER FAUCET SENSOR	#12	20 A	1	180 VA	180 VA		1	20 A	#12	RECEPTACLE	32	
33	HAND DRYER	#12	20 A	1	180 VA	180 VA		1	20 A	#12	HAND DRYER	34	
35	SOAP/WATER FAUCET SENSOR	#12	20 A	1			180 VA	180 VA	1	20 A	#12	PAPER TOWEL DISPENSER	36
37	SOAP/WATER FAUCET SENSOR	#12	20 A	1	180 VA	180 VA		1	20 A	#12	HAND DRYER	38	
39	HAND DRYER	#12	20 A	1		180 VA	180 VA		1	20 A	#12	RECEPTACLE	40
41	TOILET SENSOR	#12	20 A	1			720 VA	180 VA	1	20 A	#12	HAND DRYER	42
43	HAND DRYER	#12	20 A	1	180 VA	360 VA		1	20 A	#12	SOAP/WATER FAUCET SENSOR	44	
45	SOAP/WATER FAUCET SENSOR	#12	20 A	1	360 VA	720 VA		1	20 A	#12	RECEPTACLE	46	
47	RECEPTACLE	#12	20 A	1			180 VA	720 VA	1	20 A	#12	RECEPTACLE	48
49	STALL OCCUPANCY LIGHTS 129,133	#12	20 A	1	180 VA	180 VA		1	20 A	#12	TOILET SENSOR	50	
51	Spare	--	20 A	1		0 VA	4320...		3	100 A			52
53	Spare	--	20 A	1			0 VA	2880...	--	--	--	--	54
55	Spare	--	2										

A B C D E

ELECTRICAL LIGHTING PLAN GENERAL NOTES

A. ALL LIGHT FIXTURE LOCATIONS ARE APPROXIMATE. FOR EXACT LOCATION REFER TO ARCHITECTURAL DRAWINGS.

B. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.

C. ALL LIGHTS TO BE CONTROLLED BY EXISTING LIGHTING CONTROL SYSTEM.

D. CONTRACTOR SHALL REUSE EXISTING EMERGENCY CIRCUIT TO PROVIDE POWER TO NEW EMERGENCY LIGHTING.



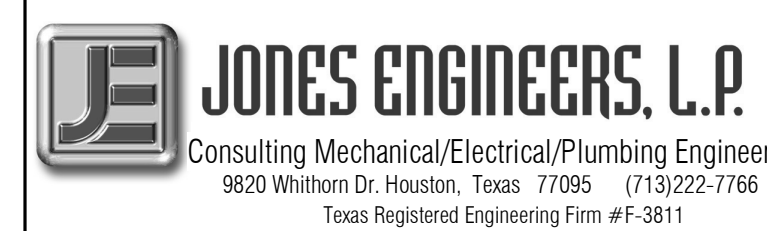
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

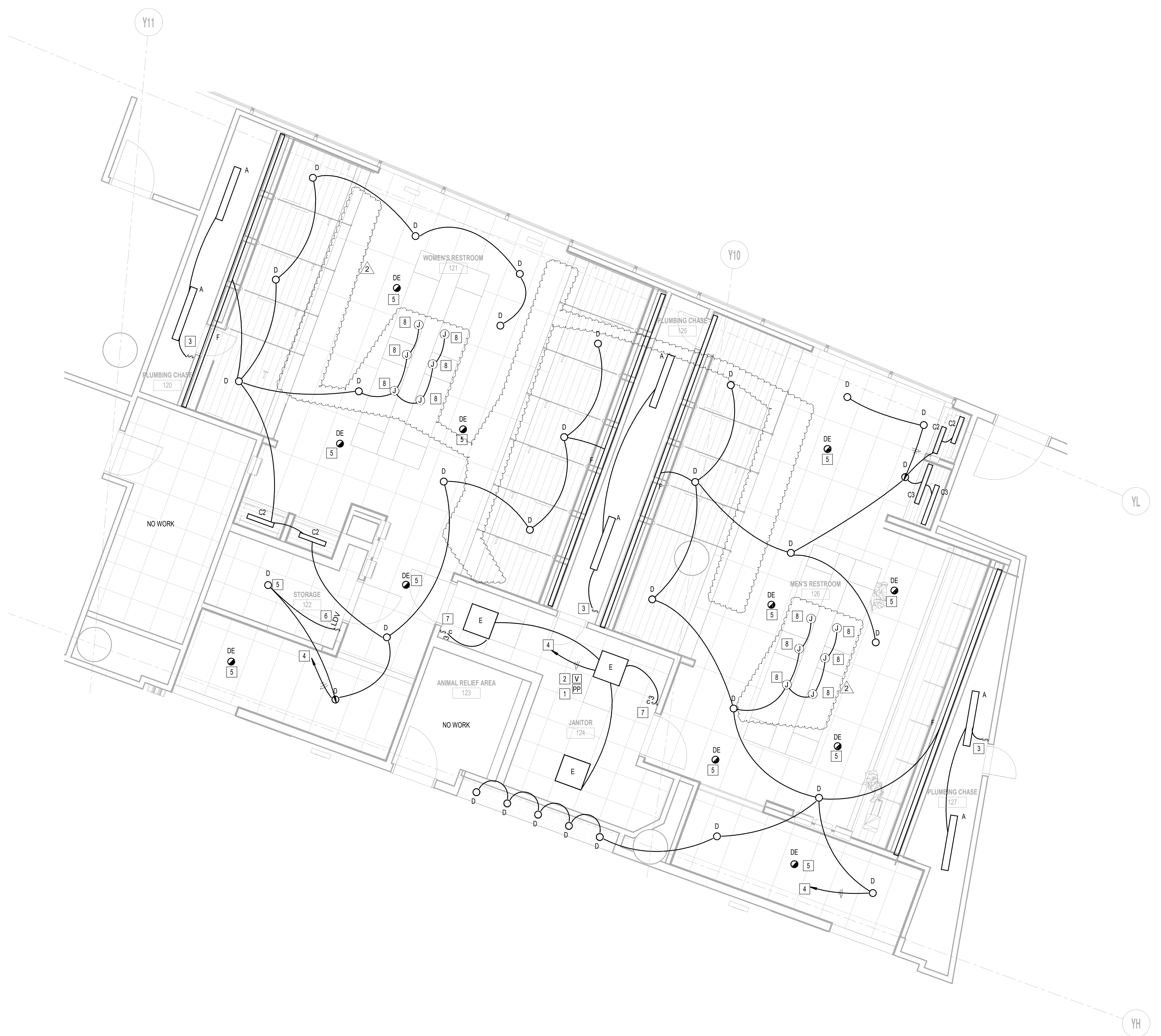
800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



Consulting Mechanical/Electrical/Plumbing Engineers
5820 Whitburn Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

#	NOTE
1	LIGHTING CONTROL POWER PACK
2	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. LIGHTS MUST TURN ON MANUALLY (OR OPTIONALLY BE CONFIGURED TO AUTOMATICALLY CONFIGURED TO COME ON TO 50%) COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO TURN ON AUTOMATICALLY TO 50%).
3	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING REMOVED LIGHT FIXTURES. SWITCH AS INDICATED.
4	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING REMOVED LIGHT FIXTURES. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.
5	CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT SERVING REMOVED EMERGENCY LIGHT FIXTURES. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.
6	WALL MOUNTED VACANCY SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. LIGHTS MUST TURN ON MANUALLY (OR OPTIONALLY BE CONFIGURED TO AUTOMATICALLY CONFIGURED TO COME ON TO 50%) COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO TURN ON AUTOMATICALLY TO 50%).
7	0-10V DIMMER
8	JUNCTION BOX FOR MIRROR LIGHT (27V, 34W)

LIGHTING CONTROL LEGEND	
	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
	LIGHTING CONTROL POWER PACK.
	LOW VOLTAGE SWITCH(S) (0-10V DIMMER).
	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
	LINE VOLTAGE SWITCH
	VME HUB. CONNECT TO NEAREST UNSWITCHED 120V LIGHTING CIRCUIT.



1 ELECTRICAL LIGHTING PLAN - GATE 20-23
1/4" = 1'-0"

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TOM JONES
DRAWN BY: MINAHIL SAMEE
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING

JE#4732
07/22/2022
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR., P.E. 58428

SHEET NAME:
ELECTRICAL LIGHTING PLAN - GATE 20-23 RESTROOMS
SHEET No. EL101 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360//1429.06 Hobby Airport Restroom Renovations/4732_MEP20.rvt
HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

A

B

C

D

E

ELECTRICAL LIGHTING PLAN GENERAL NOTES

A. ALL LIGHT FIXTURE LOCATIONS ARE APPROXIMATE. FOR EXACT LOCATION REFER TO ARCHITECTURAL DRAWINGS.

B. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.

C. ALL LIGHTS TO BE CONTROLLED BY EXISTING LIGHTING CONTROL SYSTEM.

D. CONTRACTOR SHALL REUSE EXISTING EMERGENCY CIRCUIT TO PROVIDE POWER TO NEW EMERGENCY LIGHTING.



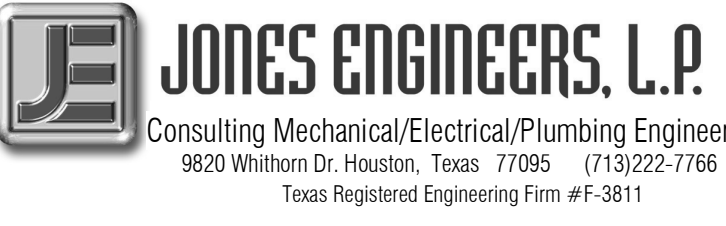
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

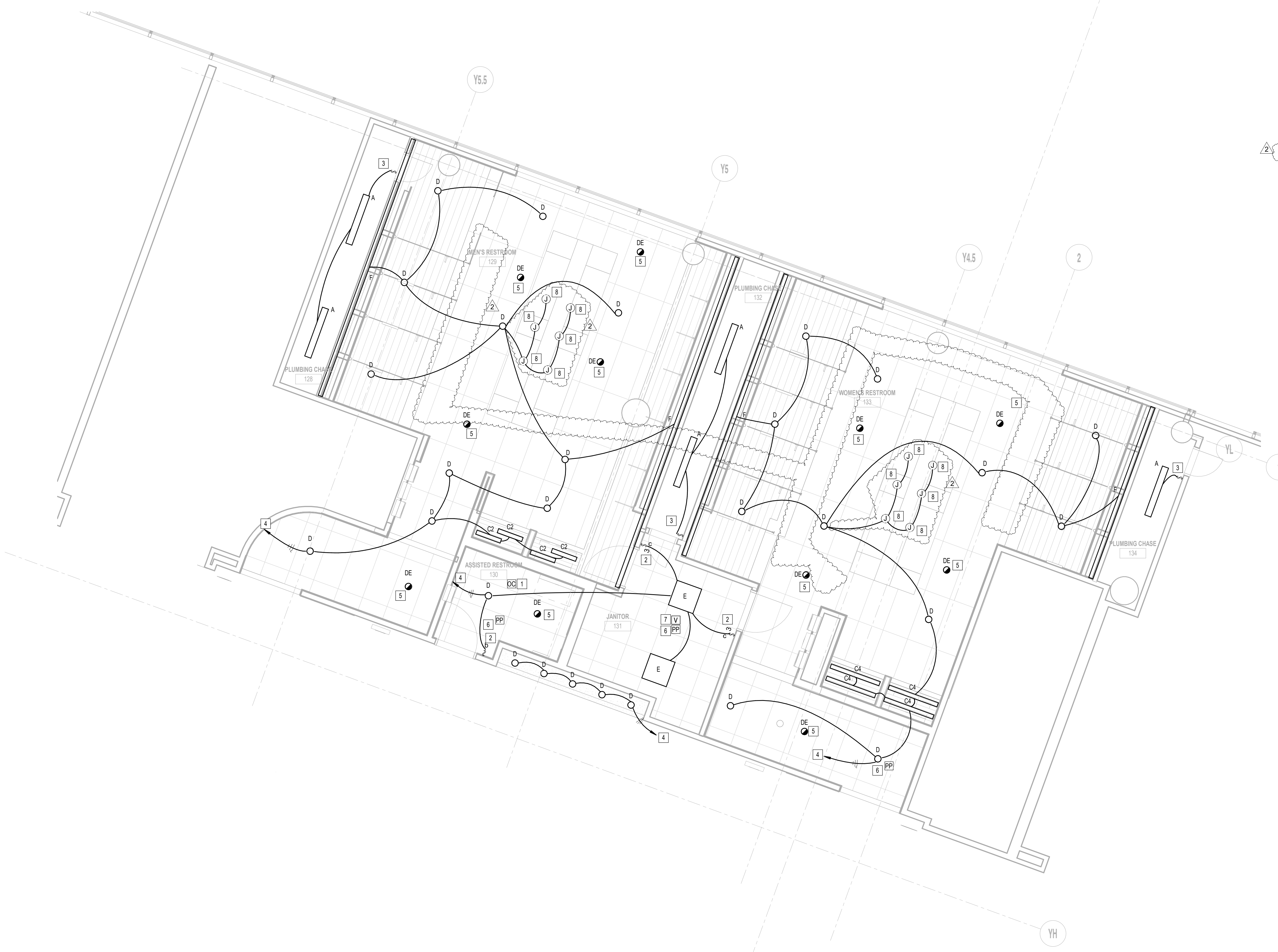
800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



Consulting Mechanical/Electrical/Plumbing Engineers
5820 Whitson Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

#	NOTE
1	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. AUTO OFF / AUTO ON
2	0-10V DIMMER
3	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING REMOVED LIGHT FIXTURES. SWITCH AS INDICATED.
4	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING REMOVED LIGHT FIXTURES. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.
5	CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT SERVING REMOVED EMERGENCY LIGHT FIXTURES. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.
6	LIGHTING CONTROL POWER PACK.
7	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. LIGHTS MUST TURN ON MANUALLY (OR OPTIONALLY BE CONFIGURED TO AUTOMATICALLY CONFIGURED TO COME ON TO 50%)
8	WALL MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSORS. LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO TURN ON AUTOMATICALLY TO 50%).
9	JUNCTION BOX FOR MIRROR LIGHT (277V, 34W).

LIGHTING CONTROL LEGEND	
OC	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSORS. AUTO OFF / AUTO ON.
V	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSORS. LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
PP	LIGHTING CONTROL POWER PACK.
LD	LOW VOLTAGE SWITCH(S) (0-10V DIMMER).
LDV	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSORS. LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
LDO	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSORS. AUTO OFF / AUTO ON.
S	LINE VOLTAGE SWITCH
VH	VIVE HUB. CONNECT TO NEAREST UNSWITCHED 120V LIGHTING CIRCUIT.



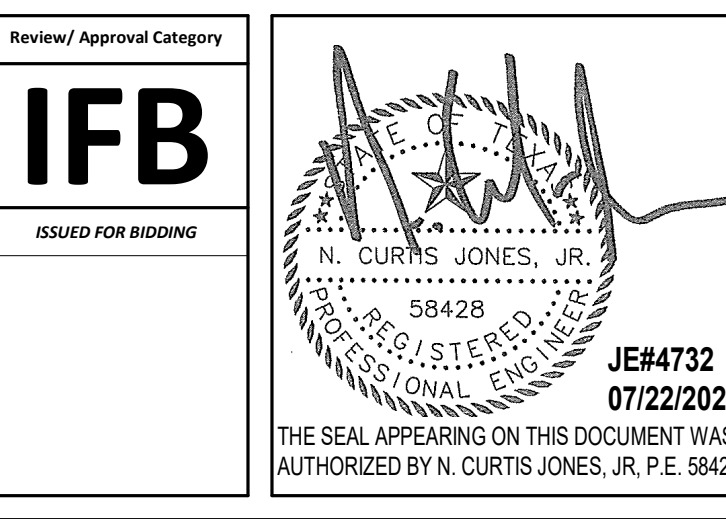
1 LIGHTING RCP - GATE 24-27
1/4" = 1/8"

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TOM JONES
DRAWN BY: MINAHIL SAMEE
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM



SHEET NAME:
ELECTRICAL LIGHTING PLAN - GATE 24-27 RESTROOMS
SHEET No. EL102 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/4732_MEP2D.rvt
HAS FILE:
PLOT DATE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No.:

A

B

C

D

E

ELECTRICAL LIGHTING PLAN GENERAL NOTES

A. ALL LIGHT FIXTURE LOCATIONS ARE APPROXIMATE. FOR EXACT LOCATION REFER TO ARCHITECTURAL DRAWINGS.

B. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.

C. ALL LIGHTS TO BE CONTROLLED BY EXISTING LIGHTING CONTROL SYSTEM.

D. CONTRACTOR SHALL REUSE EXISTING EMERGENCY CIRCUIT TO PROVIDE POWER TO NEW EMERGENCY LIGHTING.



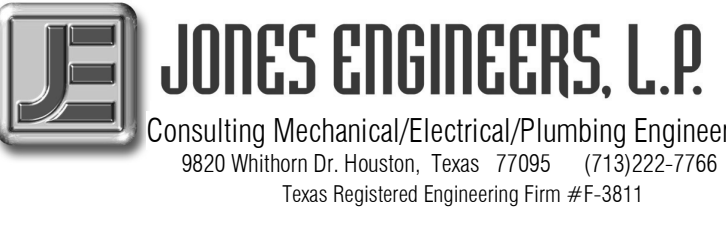
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

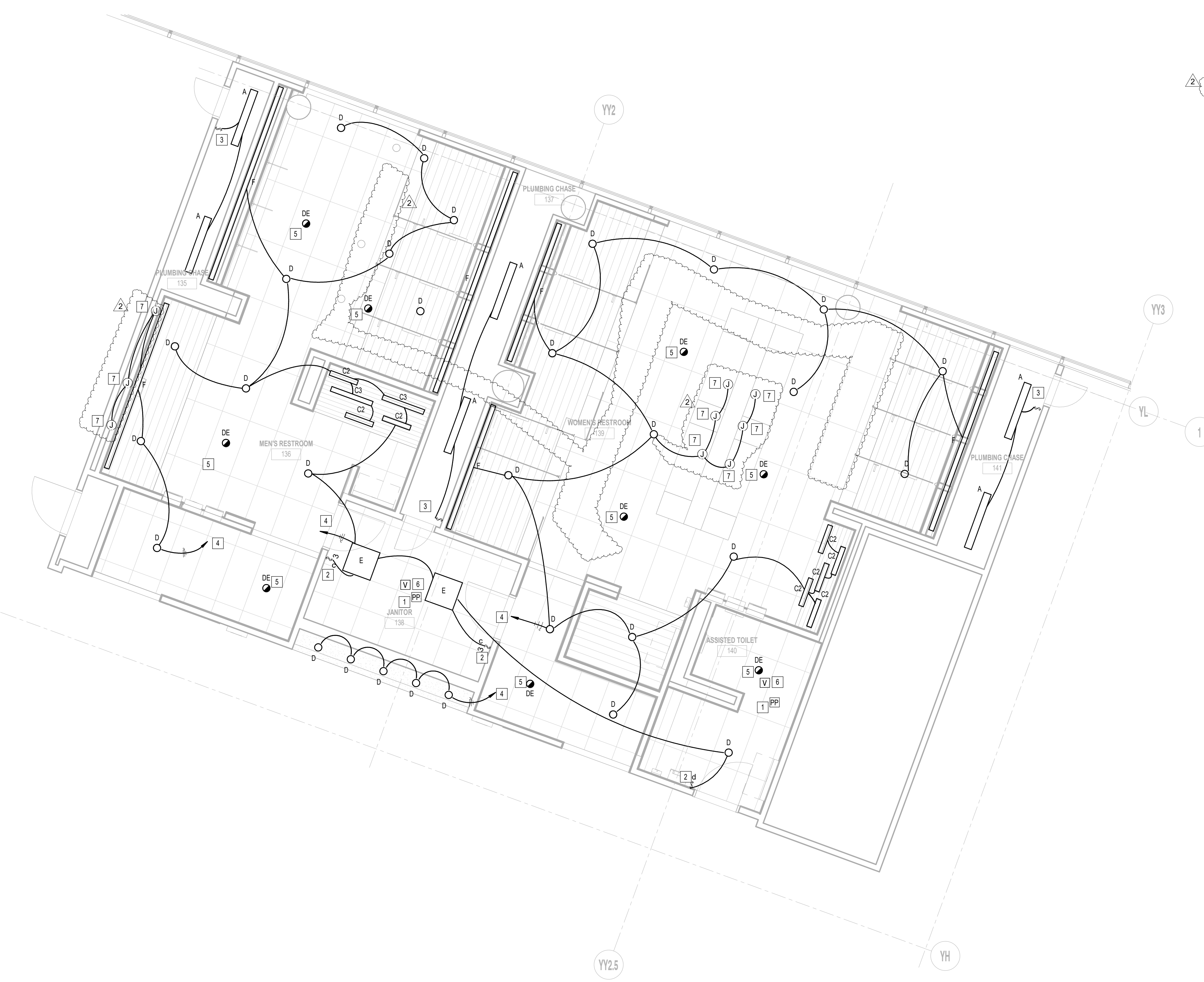


Consulting Mechanical/Electrical/Plumbing Engineers
5820 Whitburn Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

#	NOTE
1	LIGHTING CONTROL POWER PACK
2	0-10V DIMMER
3	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING REMOVED LIGHT FIXTURES. SWITCH AS INDICATED.
4	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING REMOVED LIGHT FIXTURES. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.
5	CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT SERVING REMOVED EMERGENCY LIGHT FIXTURES. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.
6	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. AUTO OFF / AUTO ON.
7	JUNCTION BOX FOR MIRROR LIGHT (27V, 34W).

LIGHTING CONTROL LEGEND

OC	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
V	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
PP	LIGHTING CONTROL POWER PACK.
LD	LOW VOLTAGE SWITCH(S) (0-10V DIMMER).
LDV	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
LDO	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
S	LINE VOLTAGE SWITCH
VH	VIVE HUB. CONNECT TO NEAREST UNSWITCHED 120V LIGHTING CIRCUIT.



1 LIGHTING RCP - GATE 28-32
1/4" = 1'-0"

FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/4732_MEP20.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

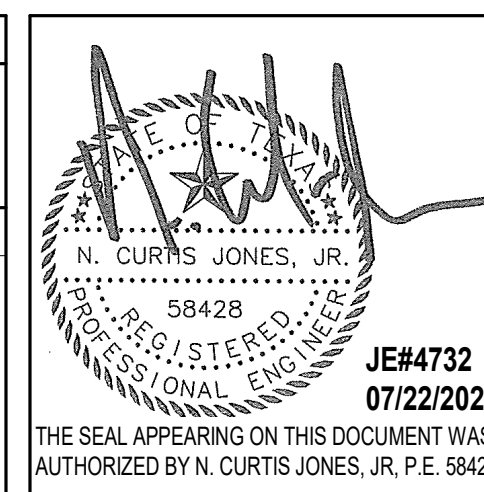
REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TOM JONES
DRAWN BY: MINAHIL SAMEE
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

IFB
ISSUED FOR BIDDING



SHEET NAME:
ELECTRICAL LIGHTING PLAN - GATE 28-32 RESTROOMS
SHEET No. EL103 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

A

B

C

D

E



7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A No.

RDLR Architects

ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



Consulting Mechanical/Electrical/Plumbing Engineers
5820 Whitson Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

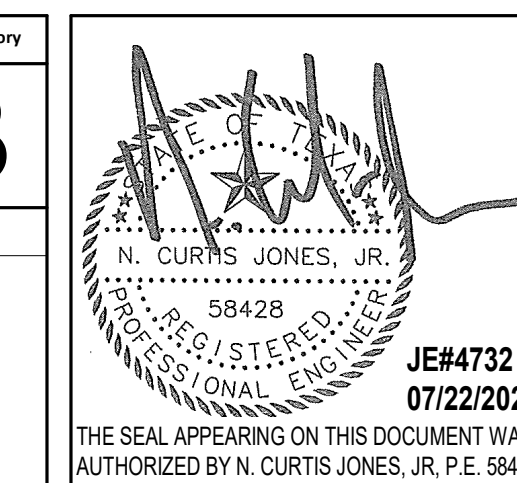
REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TOM JONES
 DRAWN BY: MINAHIL SAMEE
 CHECKED BY: RON HUGHES
 ISSUE DATE: 03.22.22
 APPROVED BY: N CURT JONES
 APPROVAL DATE: 03/22/2022

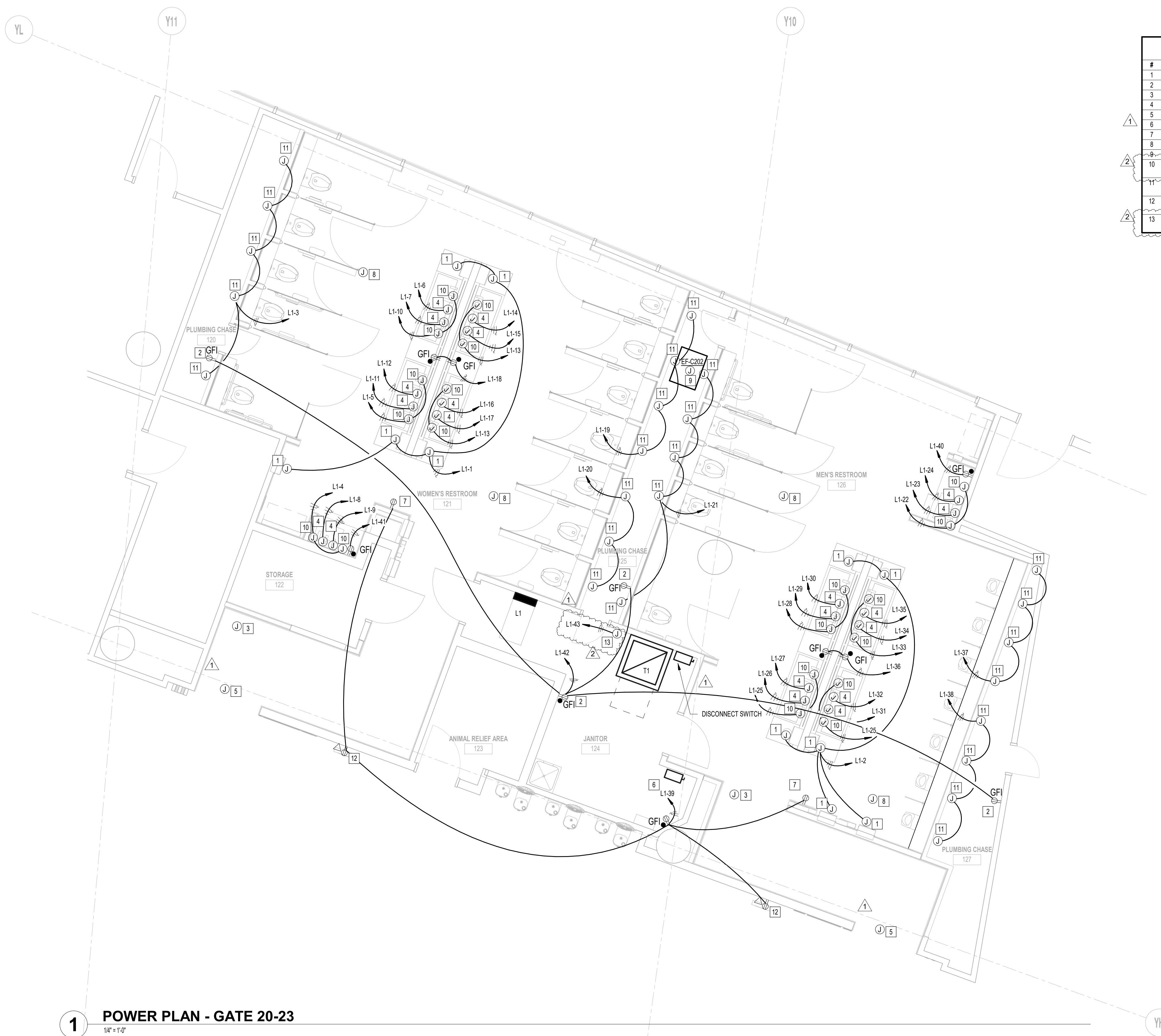
DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING



SHEET NAME:
ELECTRICAL POWER PLAN - GATE 20-23
RESTROOMS
SHEET No. EP101 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1



#	NOTE
1	JUNCTION BOX FOR PAPER TOWEL DISPENSOR.
2	EXISTING RECEPTACLE TO REMAIN, CIRCUIT AS INDICATED.
3	EXISTING JUNCTION BOX FOR SIGN/ DAMPER TO REMAIN.
4	JUNCTION BOX FOR HAND DRYER.
5	NEW LOCATION OF PASSENGER COUNTER. COORDINATE EXACT LOCATION WITH ARCHITECT.
6	EXISTING DISCONNECT SWITCH FOR EDF-CHILLER TO REMAIN.
7	USB OR RECEPTACLE FOR SMART RESTROOM TABLET.
8	NEW LOCATION OF BEACON SCANNER.
9	RECONNECT NEW EXHAUST FAN TO EXISTING CIRCUIT SERVING REMOVED EXHAUST FAN.
10	JUNCTION BOX FOR SOAP/WATER FAUCET SENSOR. COORDINATE CONNECTION WITH EQUIPMENT MANUFACTURER. PROVIDE GFI RECEPTACLE(S) AS REQUIRED.
11	JUNCTION BOX FOR TOILET SENSOR. PROVIDE 120V HARDWIRE CONNECTION. COORDINATE LOCATION OF TRANSFORMER.
12	PROVIDE 100-240V 50/60HZ DUPLEX POWER OUTLET AND CAT5 CABLE WITH FACEPLATE FOR ACCESS TO SMART RESTROOM DIGITAL SIGNAGE.
13	JUNCTION BOX FOR STALL OCCUPANCY LIGHTS. REFER TO TECHNOLOGY DRAWING FOR ADDITIONAL REQUIREMENTS.

1 POWER PLAN - GATE 20-23
1/4" = 1'-0"

A

B

C

D

E

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/4732_MEP20.rvt
HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

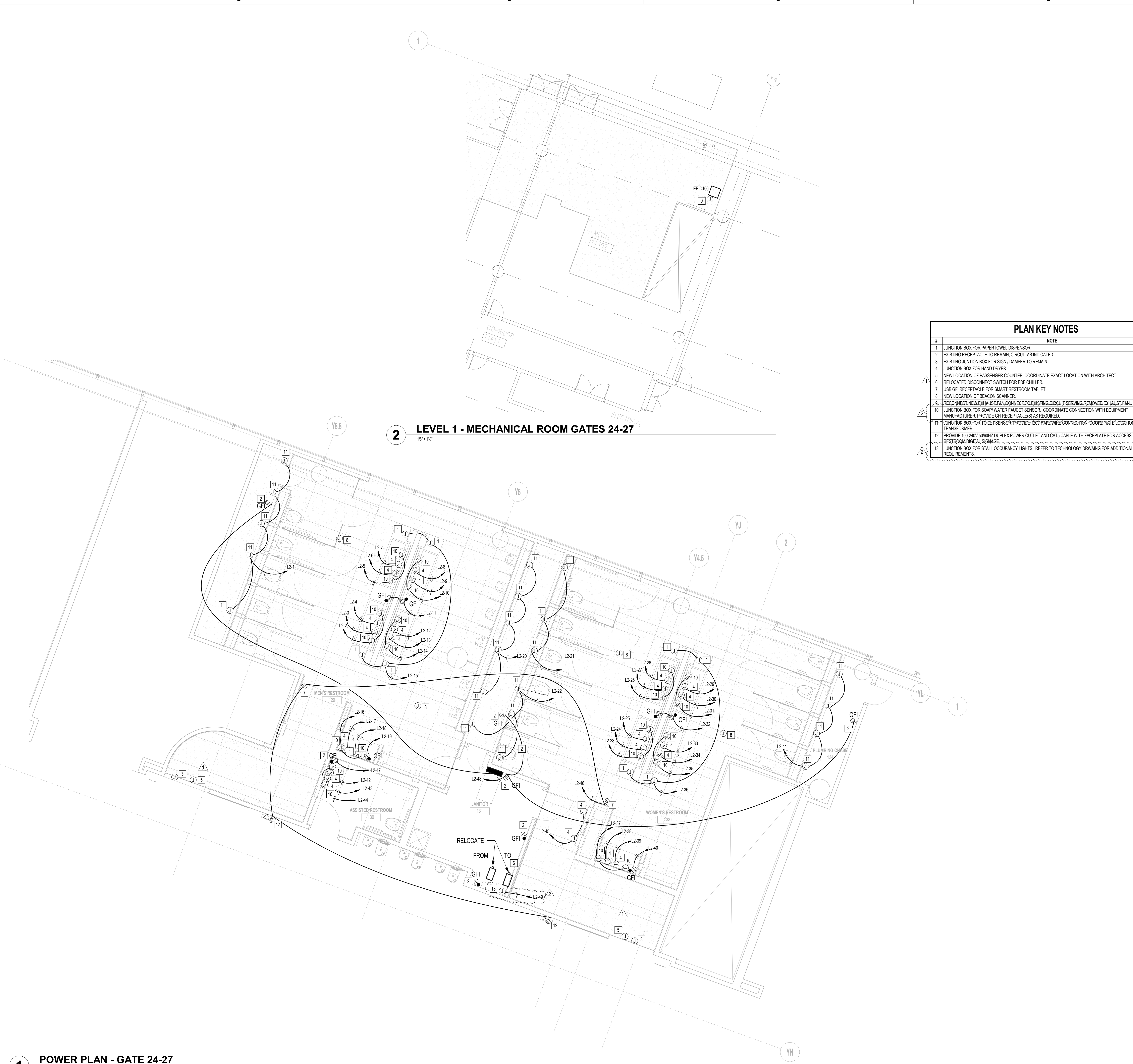
A B C D E

4

3

2

1



1 POWER PLAN - GATE 24-27
1/8" = 1'-0"

2 LEVEL 1 - MECHANICAL ROOM GATES 24-27
1/8" = 1'-0"

#	NOTE
1	JUNCTION BOX FOR PAPERTOWEL DISPENSOR.
2	EXISTING RECEPTACLE TO REMAIN, CIRCUIT AS INDICATED.
3	EXISTING JUNCTION BOX FOR SIGN / DAMPER TO REMAIN.
4	JUNCTION BOX FOR HAND DRYER.
5	NEW LOCATION OF PASSENGER COUNTER. COORDINATE EXACT LOCATION WITH ARCHITECT.
6	RELOCATED DISCONNECT SWITCH FOR EDF CHILLER.
7	USB GFI RECEPTACLE FOR SMART RESTROOM TABLET.
8	NEW LOCATION OF BEACON SCANNER.
9	RECONNECT NEW EXHAUST FAN CONNECT TO EXISTING CIRCUIT SERVING REMOVED EXHAUST FAN.
10	JUNCTION BOX FOR SOAP WATER FAUCET SENSOR. COORDINATE CONNECTION WITH EQUIPMENT MANUFACTURER. PROVIDE GFI RECEPTACLE(S) AS REQUIRED.
11	JUNCTION BOX FOR TOILET SENSOR. PROVIDE 120V HARDWIRE CONNECTION. COORDINATE LOCATION OF TRANSFORMER.
12	PROVIDE 100-240V 50/60HZ DUPLEX POWER OUTLET AND CAT5 CABLE WITH FACEPLATE FOR ACCESS TO SMART RESTROOM DIGITAL SIGNAGE.
13	JUNCTION BOX FOR STALL OCCUPANCY LIGHTS. REFER TO TECHNOLOGY DRAWING FOR ADDITIONAL REQUIREMENTS.

HOUSTON AIRPORTS
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121
www.rdlr.com

JONES ENGINEERS, L.P.
Consulting Mechanical/Electrical/Plumbing Engineers
5820 Whitburn Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TOM JONES
DRAWN BY: MINAHIL SAMEE
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING

(Signature)
N. CURTIS JONES, JR.
58428
JE#4732
07/22/2022
THE SEAL APPEARING ON THIS DOCUMENT WAS
AUTHORIZED BY N. CURTIS JONES, JR., P.E. 58428

SHEET NAME:
ELECTRICAL POWER PLAN - GATE 24-27
RESTROOMS

SHEET No. EP102 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

A

B

C

D

E

4

3

2

1

4

3

2

1



7800 Airport Blvd
Houston, TX 77061

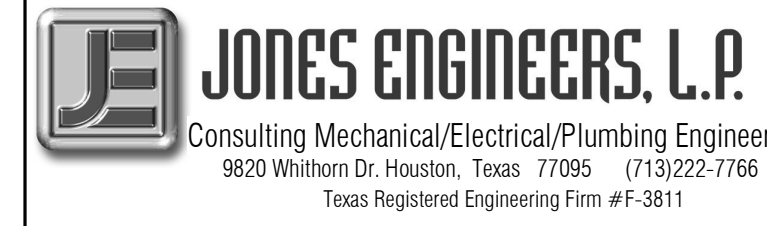
HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A No.

RDLR Architects

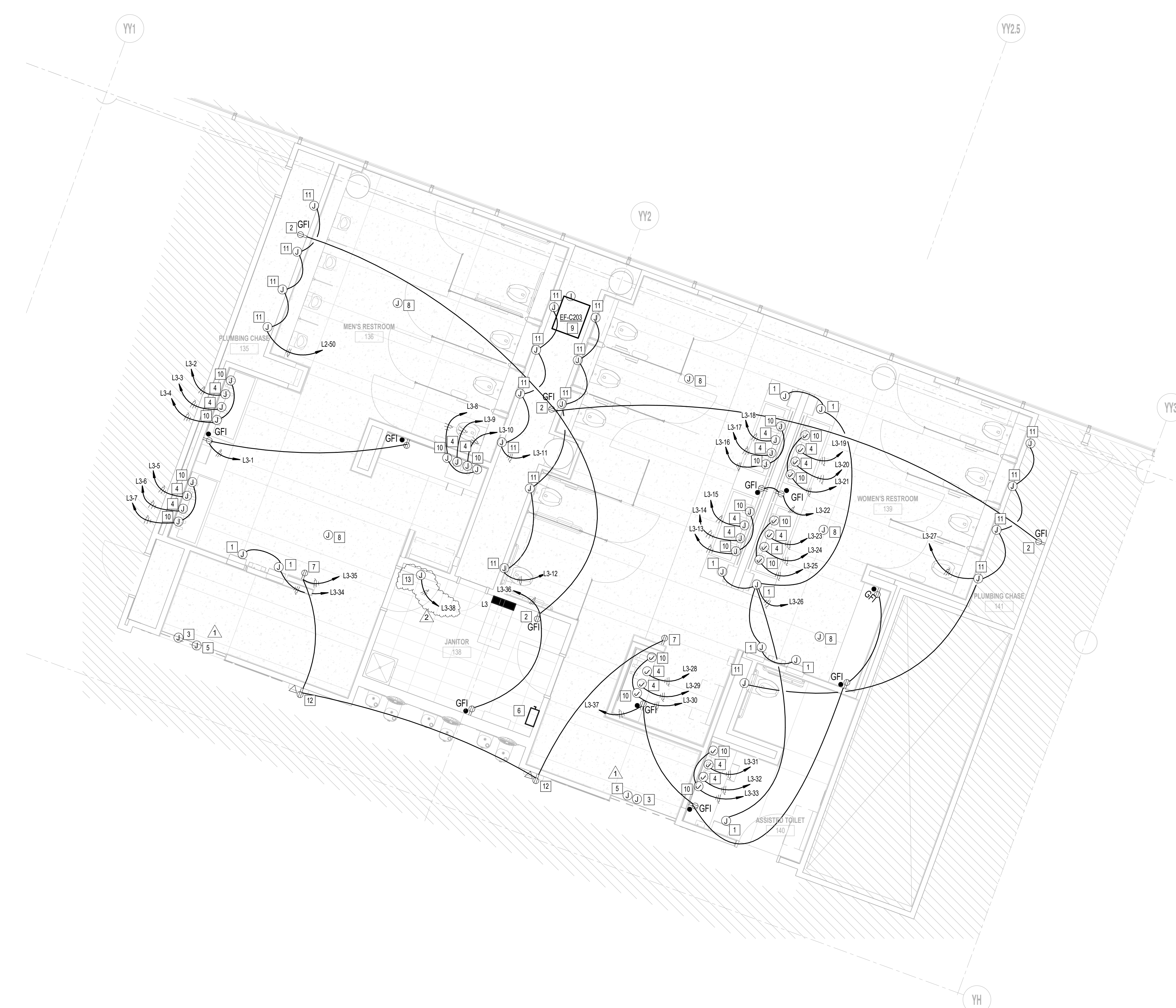
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



Consulting Mechanical/Electrical/Plumbing Engineers
5820 Whitson Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

#	NOTE
1	JUNCTION BOX FOR PAPER TOWEL DISPENSOR.
2	EXISTING RECEPTACLE TO REMAIN. CIRCUIT AS INDICATED.
3	EXISTING JUNCTION BOX FOR SIGN DAMPER TO REMAIN.
4	JUNCTION BOX FOR HAND DRYER.
5	NEW LOCATION OF PASSENGER COUNTER. COORDINATE EXACT LOCATION WITH ARCHITECT.
6	EXISTING DISCONNECT SWITCH FOR EDF CHILLER TO REMAIN.
7	USB GFI RECEPTACLE FOR SMART RESTROOM TABLE.
8	NEW LOCATION OF BEACON SCANNER.
9	RECONNECT NEW EXHAUST FAN CONNECT TO EXISTING CIRCUIT SERVING REMOVED EXHAUST FAN.
10	JUNCTION BOX FOR SOAP WATER FAUCET SENSOR. COORDINATE CONNECTION WITH EQUIPMENT MANUFACTURER. PROVIDE GFI RECEPTACLE(S) AS REQUIRED.
11	JUNCTION BOX FOR TOILET SENSOR. PROVIDE 120V HARDWARE CONNECTION. COORDINATE LOCATION OF TRANSFORMER.
12	PROVIDE 100-240V 50/60HZ DUPLEX POWER OUTLET AND CAT5 CABLE WITH FACEPLATE FOR ACCESS TO SMART RESTROOM DIGITAL SIGNAGE.
13	JUNCTION BOX FOR STALL OCCUPANCY LIGHTS. REFER TO TECHNOLOGY DRAWING FOR ADDITIONAL REQUIREMENTS.



1 POWER PLAN - GATE 28-32
1/4" = 1'-0"

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TOM JONES
 DRAWN BY: MINAHIL SAMEE
 CHECKED BY: RON HUGHES
 ISSUE DATE: 03.22.22
 APPROVED BY: N CURT JONES
 APPROVAL DATE: 03/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING

JE#4732
07/22/2022
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR., P.E. 58428

SHEET NAME:
ELECTRICAL POWER PLAN - GATE 28-32
RESTROOMS

SHEET No. EP103 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

FILE PATH: BIM 360://1429.06 Hobby Airport Restroom Renovations/4732_MEP2.0.rvt

HAS FILE:

A B C D E



1 POWER PLAN - LEVEL 1
1/8" = 1'-0"

FILE PATH: BIM 360//1429.06 Hobby Airport Restroom Renovations/4732_MEP20.rvt
HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:



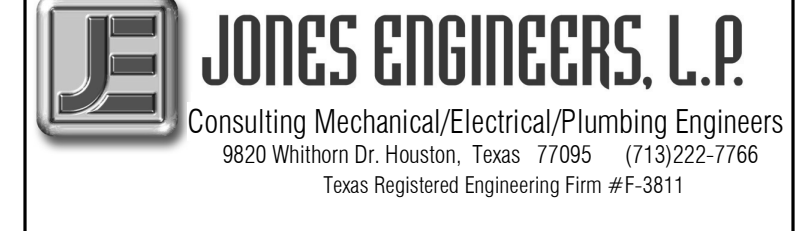
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

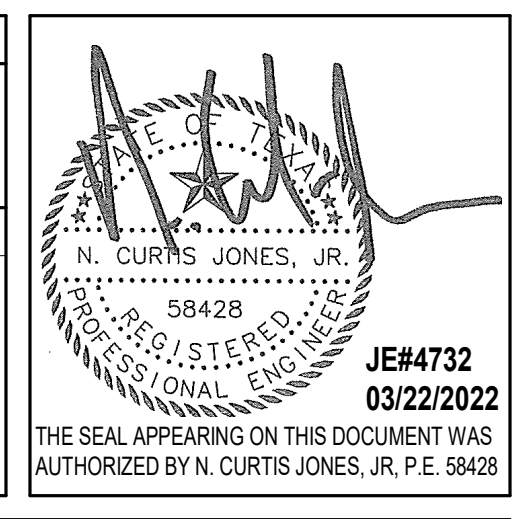
REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TOM JONES
DRAWN BY: MINAHIL SAMEE
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

**DIRECTOR
of
HOUSTON AIRPORT SYSTEM**

Review/Approval Category
IFB
ISSUED FOR BIDDING



SHEET NAME: ELECTRICAL POWER PLAN - LEVEL 1
SHEET No. EP104 SCALE: 1/8" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

A

B

C

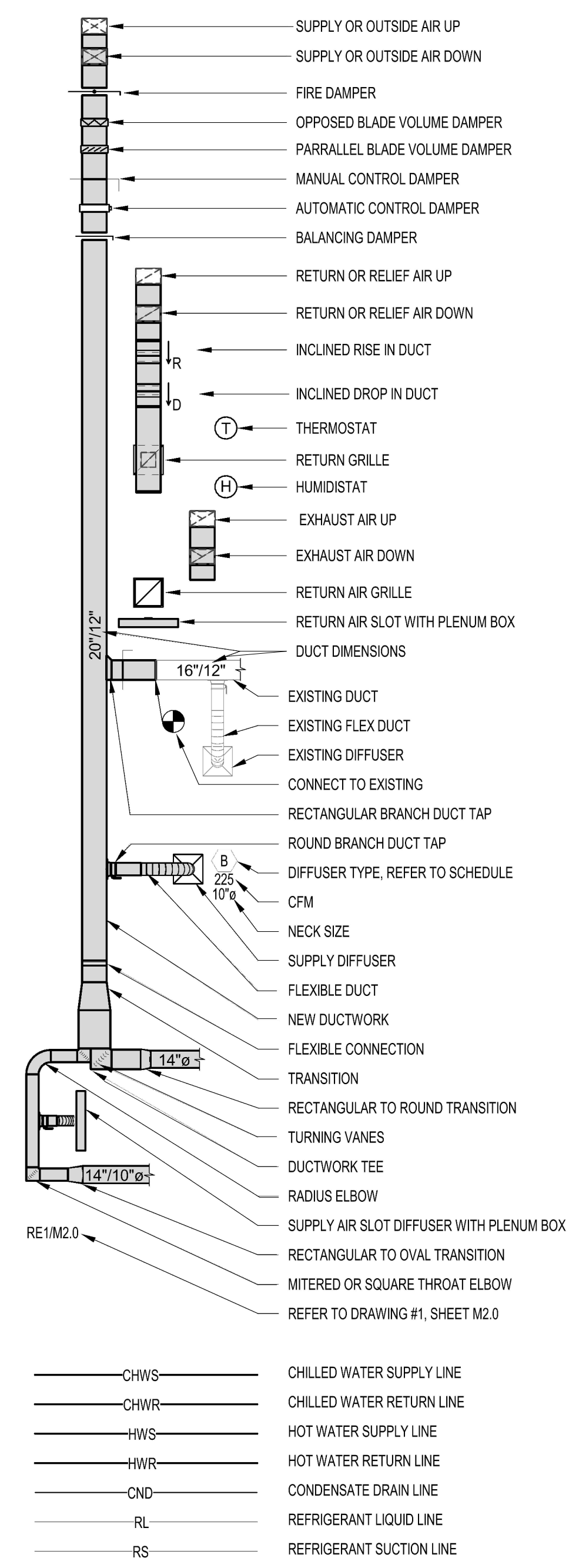
D

E

MECHANICAL GENERAL NOTES

1. PIPING AND DUCTWORK ON DRAWINGS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN (PIPE/DUCTWORK) INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTINGS, INSULATION, AND OTHER ACCESSORIES.
2. EXACT LOCATIONS OF TERMINAL BOXES, GRILLES, DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCE AND EASY ACCESS.
3. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
4. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 10 FEET DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS.
6. PROVIDE A CONICAL SPIN-IN SHEETMETAL INLET DUCT TO TERMINAL BOX SHALL BE SAME SIZE AS TERMINAL BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE TERMINAL BOX INLET IS MORE THAN 6'-0".
7. CONTRACTOR SHALL PROVIDE ADEQUATE CLEARANCE AROUND VAV BOXES AS REQUIRED BY MANUFACTURER. COORDINATE EXACT LOCATION WITH OTHER TRADES.
8. ROUTE HYDRONIC PIPING FROM MAINS TO VAV BOXES. REFER TO SCHEDULES FOR PIPE SIZING. WITH AN ISOLATION VALVE ON THE SUPPLY AND RETURN LINES AND A VENT AT THE HIGH POINT. OFFSET PIPING AND RUN INSIDE STRUCTURE AS NEEDED TO PROVIDE PROPER CLEARANCES. TYPICAL.
9. ALL SUPPLY AIR DUCT UPSTREAM OF TERMINAL BOXES (PER DIRECTION OF AIRFLOW) SHALL BE SIZED AND CLASSIFIED TO BE MEDIUM PRESSURE DUCTWORK. THIS DUCT SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM PRESSURE DUCTWORK.
10. INSTALL TERMINAL BOXES TO ENSURE ACCESS PANELS ARE NOT BLOCKED. MAINTAIN MINIMUM 4'-0" FOR CONTROL PANEL ACCESS.
11. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0". COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPE SUPPORT SPECIFICATION.
12. CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
13. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND CUTSHEETS BEFORE FABRICATION OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PAIS.
14. CONTRACTOR SHALL VENEY DUCTED RETURN AIR PATH BACK TO ALL UNITS. REFER TO FLOOR PLANS AND AIR DEVICE TAGS FOR EXACT SIZING. WHERE RETURN AIR PATH IS ROUTED THROUGH A FIRE RATED WALL, A FIRE DAMPER SHALL BE PROVIDED IN THE DUCTWORK.
15. COORDINATE EXACT LOCATION, FINISH, AND COLOR OF ALL AIR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
16. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED.
17. PROVIDE ACCESS PANEL FOR ALL HVAC EQUIPMENT LOCATED ABOVE HARD CEILING. SIZE PANEL PER MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AND COORDINATE WITH ARCHITECT FOR FINISH.
18. PROVIDE TEMPERATURE SENSORS, HUMIDISTATS AND CO2 SENSORS AT LOCATIONS INDICATED ON PLANS. MOUNT TEMPERATURE SENSORS, HUMIDISTATS AND CO2 SENSORS AT THE SAME ELEVATION AS LIGHT SWITCHES. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
19. PROVIDE SPIN-IN CONNECTION WITH LOCKING QUADRANT BUTTERFLY FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT.
20. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.
21. ALL LOW PRESSURE DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM AND LOW PRESSURE DUCTWORK.
22. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS.
23. FASTEN AND SEAL ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS PER ASHRAE 90.1 SECTION 6.4.4.1. DUCT SEALANT SHALL BE INSPECTED PRIOR TO DUCTWORK BEING INSULATED.
24. ALL EXPOSED DUCTWORK AND PIPING ALONG WITH ASSOCIATED ACCESSORIES IN AREAS WITH NO CEILING OR PARTIAL CEILING SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR.
25. PROVIDE REMOTE SPIN-IN CONNECTION FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT LOCATED ABOVE A HARD CEILING.
26. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY TO STRUCTURE/GRADE. ALL FANS, RELIEF HOODS, AND INTAKE HOODS SHALL BE SECURED TO CURB USING STEEL CABLES. ALL PIPE SUPPORTS AND CONDUIT SUPPORTS SHALL BE ANCHORED TO ROOF DECK. ALL AIR COOLED CONDENSING UNITS SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT REQUIREMENT.
27. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD. SO THEY WILL HAVE OBTAINED THE SCOPE OF MECHANICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS. CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
28. COORDINATE ALL MOUNTING LOCATIONS AND HEIGHTS OF AIR DEVICES WITH ARCHITECT PRIOR TO FINAL INSTALLATION.
29. AFTER THE HYDRONIC SYSTEM FLUSH IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO PROVE ALL BYPASS LOOPS ON ALL OF THE COOL PIPING IS CLOSED. ONCE THE VALVE IS PROVED CLOSED, REMOVE THE HANDLE OF THE BYPASS ISOLATION VALVE TO ENSURE NO BYPASS LINE CAN BE OPENED DURING REGULAR OPERATION.

MECHANICAL SYMBOLS



ENERGY CODE NOTES

1. DUCT SEALING, DUCTWORK AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH THE 2015 IECC AND 2015 UMC.
 2. BALANCING SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS (NEBB, AABC, OR ASHRAE 111). AIR SYSTEMS SHALL BE IN A MANNER TO FIRST MINIMIZE FRICTION LOSSES. THEN FOR FANS WITH FAN SYSTEM POWER GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.
 3. ENERGY CODE COMPLETION REQUIREMENTS.
 - DRAWINGS CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.
 - MANUALS CONSTRUCTION DOCUMENTS REQUIRE THAT AN OPERATING MANUAL AND A MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY ACCEPTED STANDARDS, AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING:
 - (A) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
 - (B) OPERATING MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE SHALL BE CLEARLY IDENTIFIED.
 - (C) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.
 - (D) HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS, IN THE PROGRAMMING COMMENTS.
 - (E) COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SETPOINTS.
- AUTOMATIC SHUTOFF**
 SHUTOFF DAMPER CONTROLS BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTDOOR AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARM UP, COOL DOWN AND SETBACK.
- NOTES:**
1. DUCTWORK WITHIN THE BUILDING ENVELOPE WILL HAVE A MINIMUM INSULATION VALUE OF R-6. DUCTWORK LOCATED OUTSIDE OF THE BUILDING ENVELOPE WILL BE INSULATED WITH A MINIMUM OF R-8. DUCTWORK SHALL HAVE VAPOR BARRIERS WITH A PERM RATING NOT TO EXCEED 5 PERM. ALL JOINTS TO BE SEALED.
 2. CONSTRUCTION - VENTILATING CEILINGS. SUSPENDED CEILING MATERIAL SHALL HAVE A CLASS 1 FLAME-SPREAD CLASSIFICATION ON BOTH SIDES, DETERMINED IN ACCORDANCE WITH THE BUILDING CODE. CEILING SUPPORTS SHALL BE OF NONCOMBUSTIBLE MATERIALS. LIGHTING FIXTURES RECESSED INTO VENTILATING CEILINGS SHALL BE OF A TYPE APPROVED FOR THAT PURPOSE.
 3. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOADS WITHIN THE STRESS LIMITATIONS SPECIFIED IN THE IBC SECTION 304.4 - UNIFORM MECHANICAL CODE.

MECHANICAL SHEET LIST

DWG NUMBER	DWG NAME
MG001	MECHANICAL ABBREVIATIONS, LEGENDS AND NOTES
MG100	MECHANICAL OVERALL RENOVATION PLAN - LEVEL 2
MD101	MECHANICAL DEMOLITION PLAN - GATE 20-23 RESTROOMS
MD102	MECHANICAL DEMOLITION PLAN - GATE 24-27 RESTROOMS
MD103	MECHANICAL DEMOLITION PLAN - GATE 28-32 RESTROOMS
MH101	MECHANICAL RENOVATION PLAN - GATE 20-23 RESTROOMS
MH102	MECHANICAL RENOVATION PLAN - GATE 24-27 RESTROOMS
MH103	MECHANICAL RENOVATION PLAN - GATE 28-32 RESTROOMS

APPLICABLE CODES AND STANDARDS

HOUSTON AIRPORT SYSTEM AND MODULAR RESTROOM DESIGN STANDARDS
MECHANICAL CODE: 2015 UNIFORM MECHANICAL CODE WITH CITY OF HOUSTON AMENDMENTS
BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE WITH CITY OF HOUSTON AMENDMENTS
2015 INTERNATIONAL FIRE CODE WITH CITY OF HOUSTON AMENDMENTS
2015 UNIFORM PLUMBING CODE WITH CITY OF HOUSTON AMENDMENTS.
2020 NATIONAL ELECTRIC CODE
ASHRAE 90.1-2015 WITH CITY OF HOUSTON AMENDMENTS
ASHRAE 62.1-2015 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
2015 TAS - TEXAS ACCESSIBILITY STANDARD
WHERE TWO OR MORE STANDARDS ARE APPLICABLE, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

HOUSTON AIRPORTS

7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No.	PN466B	A.I.P. No.	
C.O.H. No.		D.O.A. No.	

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104
Houston, TX 77003

713.868.3121
www.rdlr.com

JONES ENGINEERS, L.P.
Consulting Mechanical/Electrical/Plumbing Engineers
9820 Whitburn Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: MINAHIL SAMEE
DRAWN BY: MINAHIL SAMEE
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

**DIRECTOR
of
HOUSTON AIRPORT SYSTEM**

IFB ISSUED FOR BIDDING	<p>JE#4732 07/22/2022 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR., P.E. 58428</p>
----------------------------------	---

SHEET NAME: MECHANICAL ABBREVIATIONS, LEGENDS AND NOTES
SHEET No.: MG001 **SCALE:** 12" = 1'-0"
SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360//1429.06 Hobby Airport Restroom Renovations/4732_MEP20.rvt
 HAS FILE:
 PLOT DATE:
 OLD DWA No. :
 DOA DWG FILE:
 PLOT DATE:

A

B

C

D

E



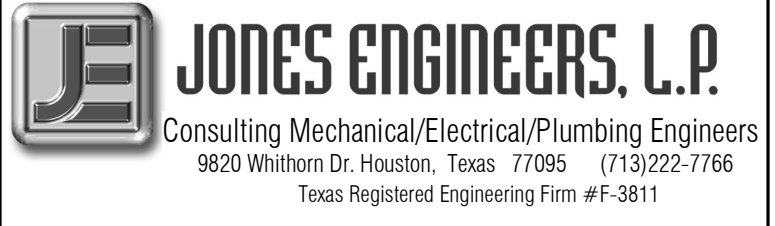
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



Consulting Mechanical/Electrical/Plumbing Engineers
5820 Whitson Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: **IFB**

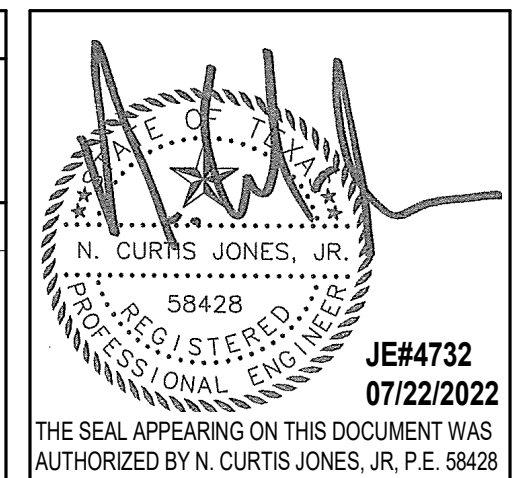
REVISIONS

No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TIM LUBER
DRAWN BY: TIM LUBER
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

**DIRECTOR
of
HOUSTON AIRPORT SYSTEM**

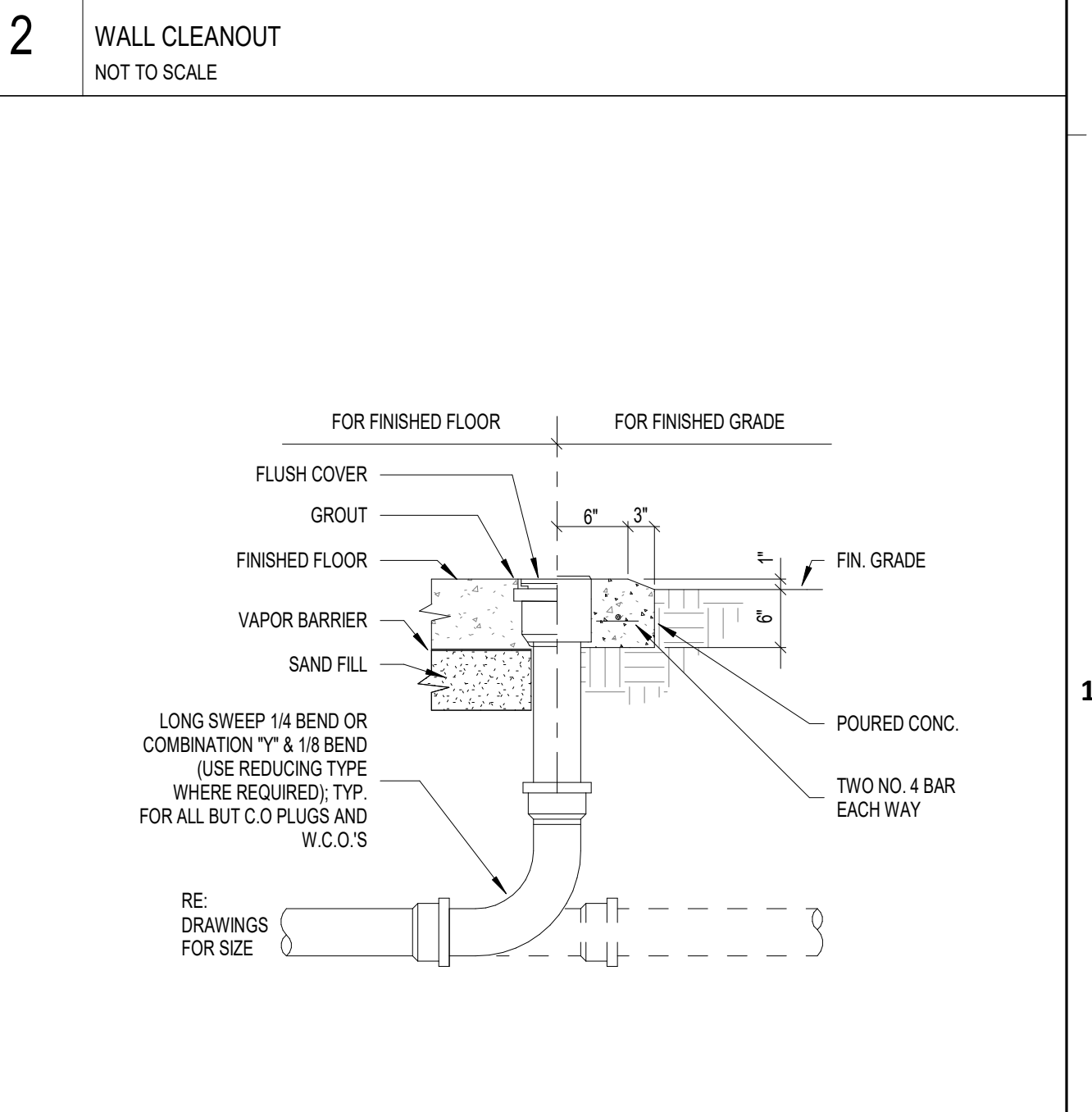
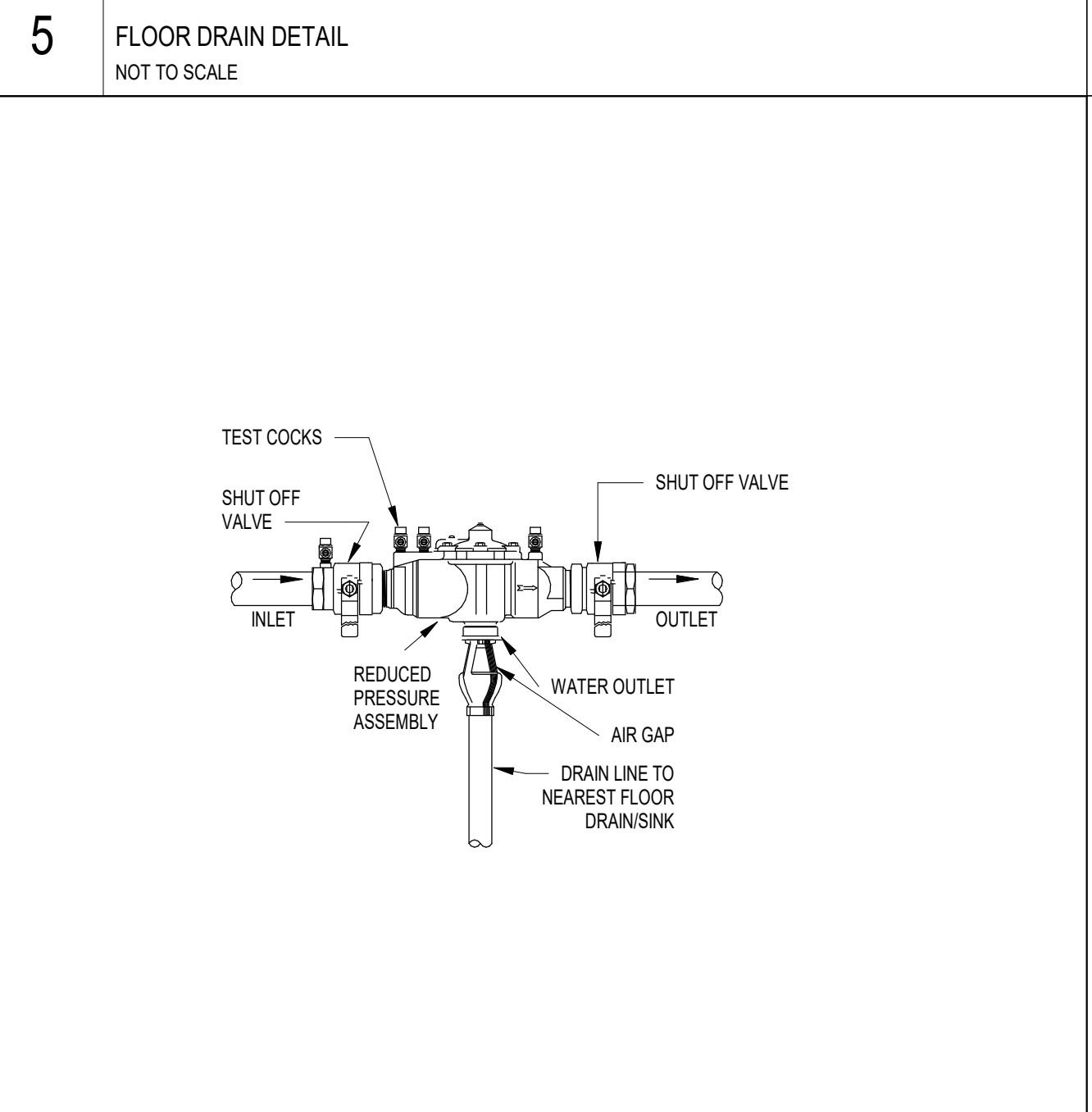
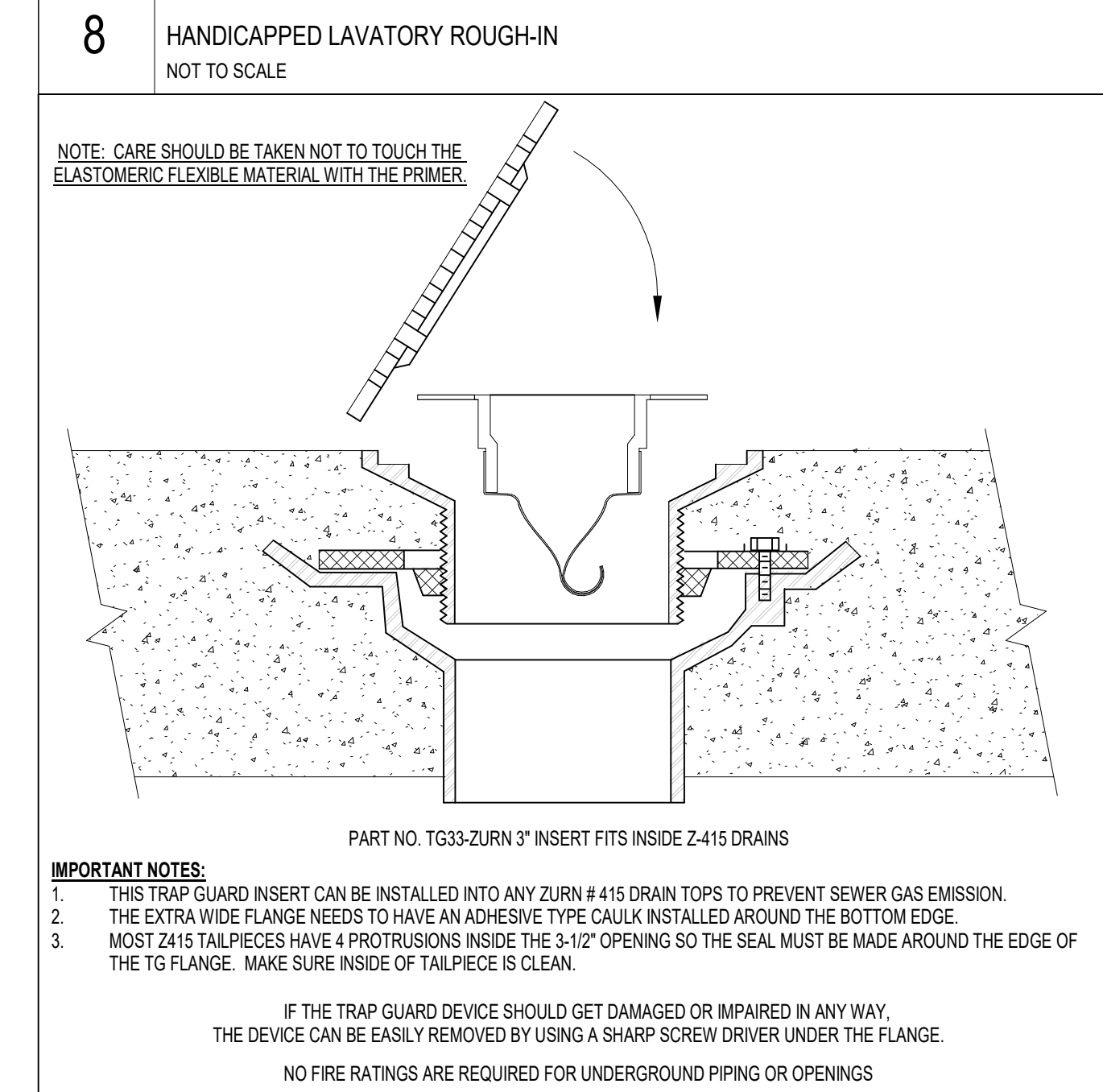
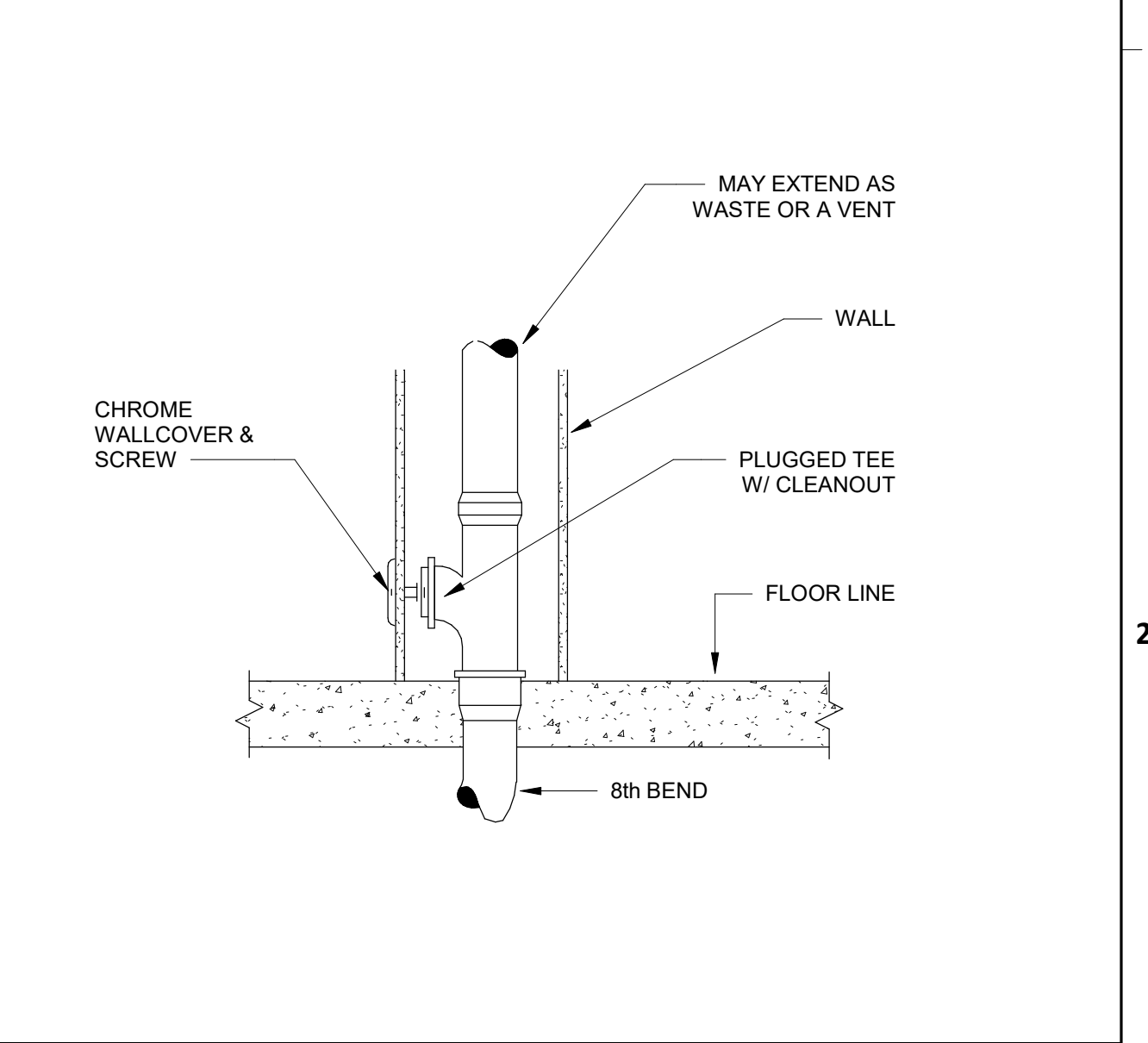
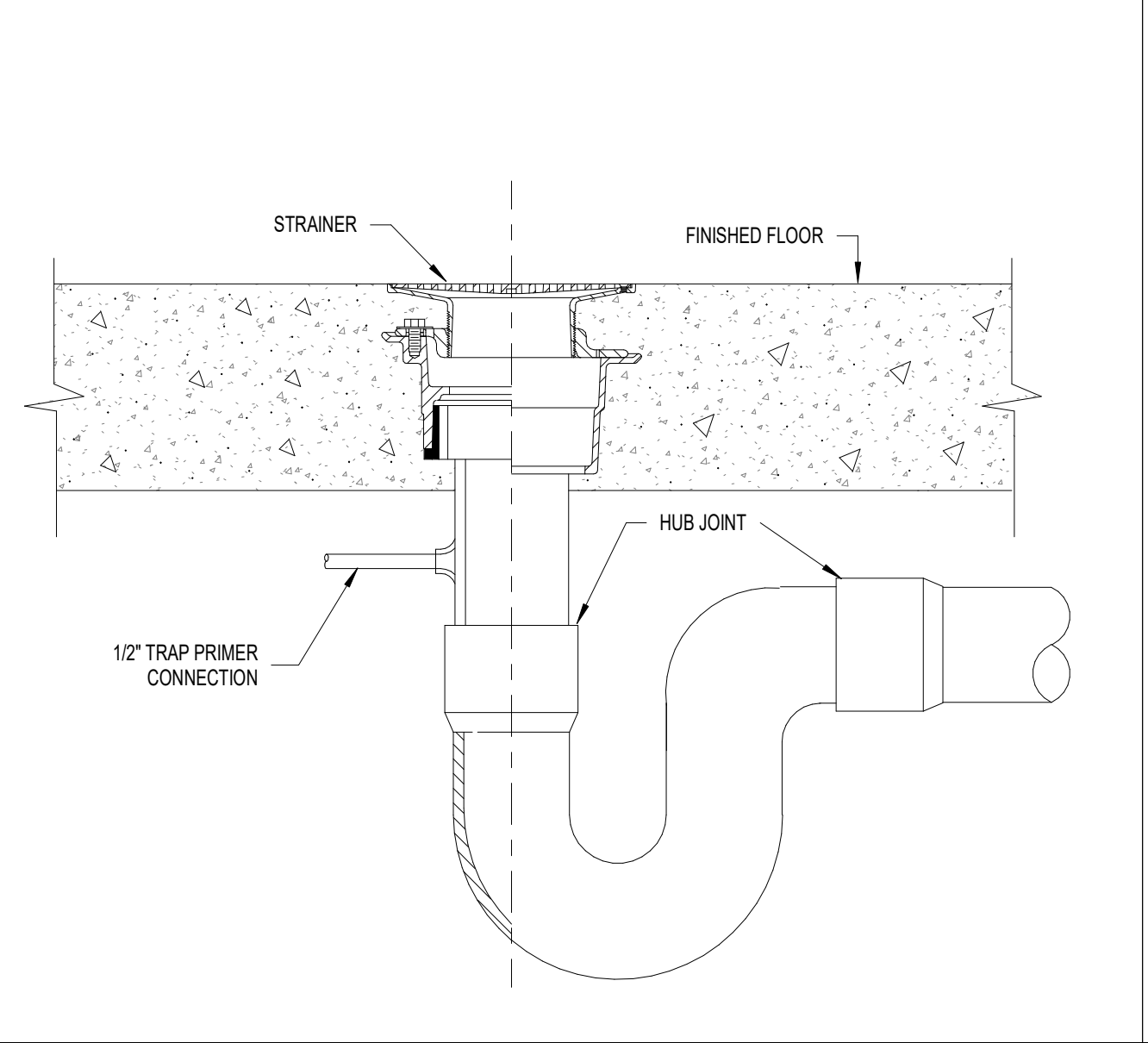
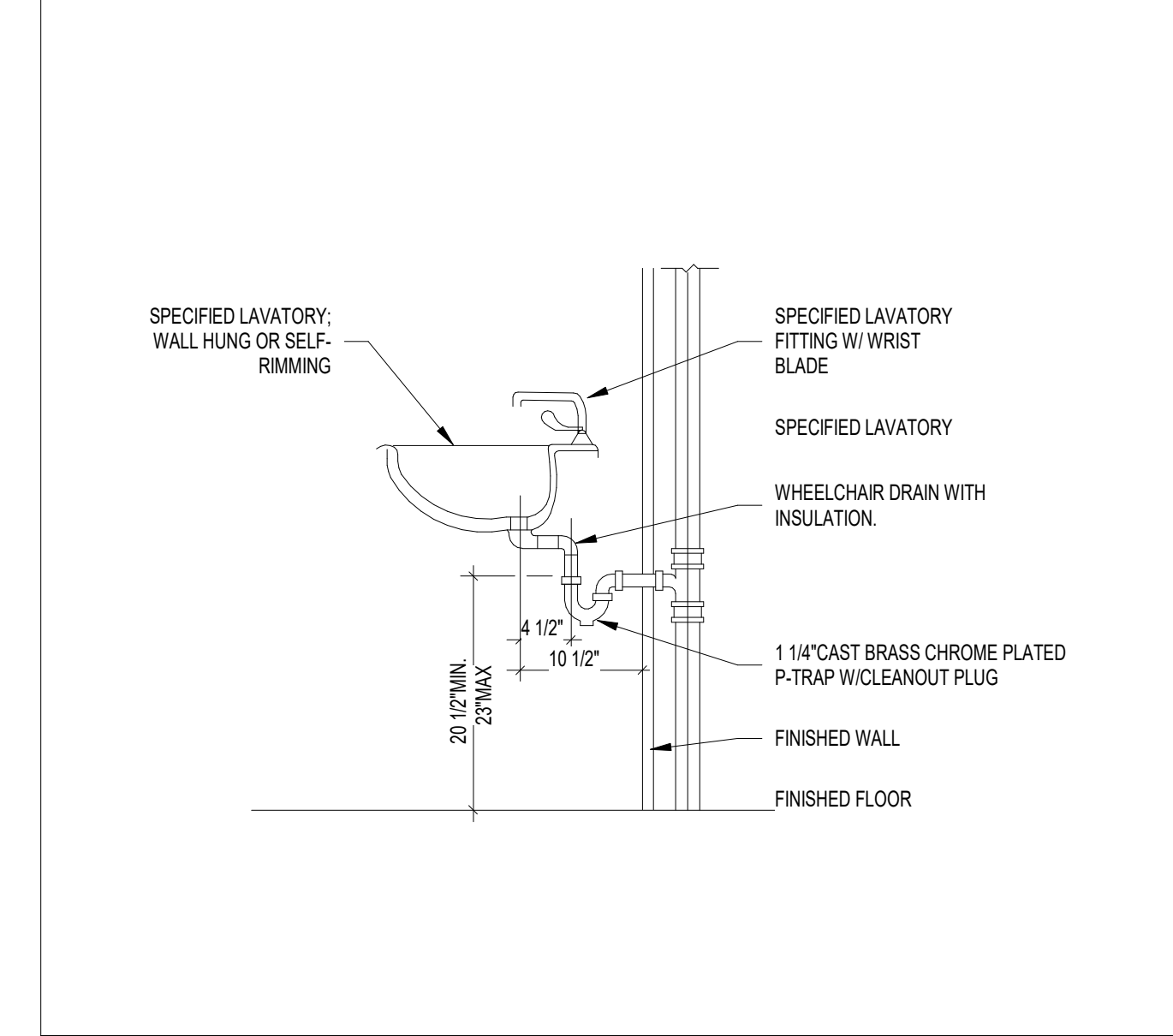
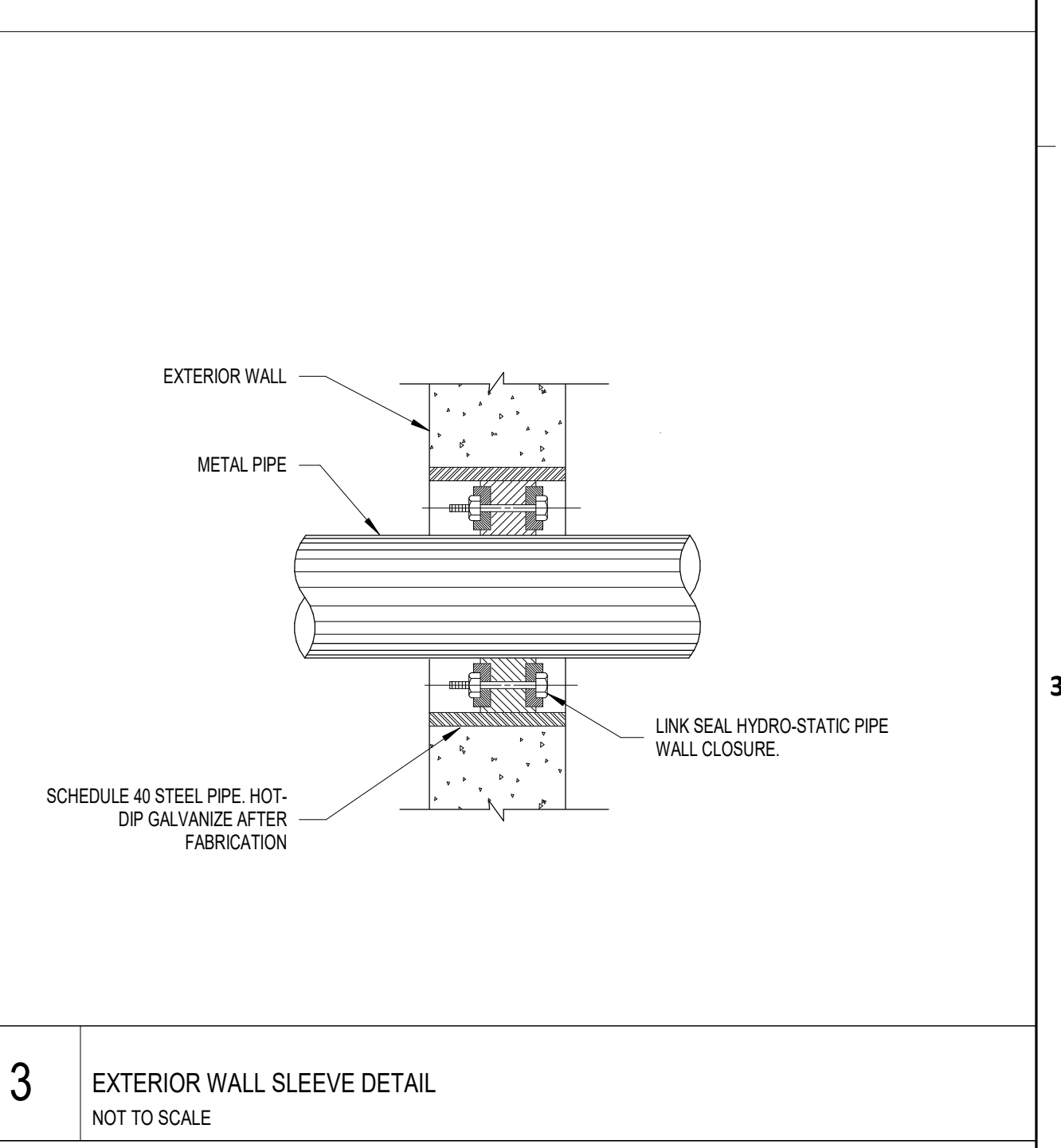
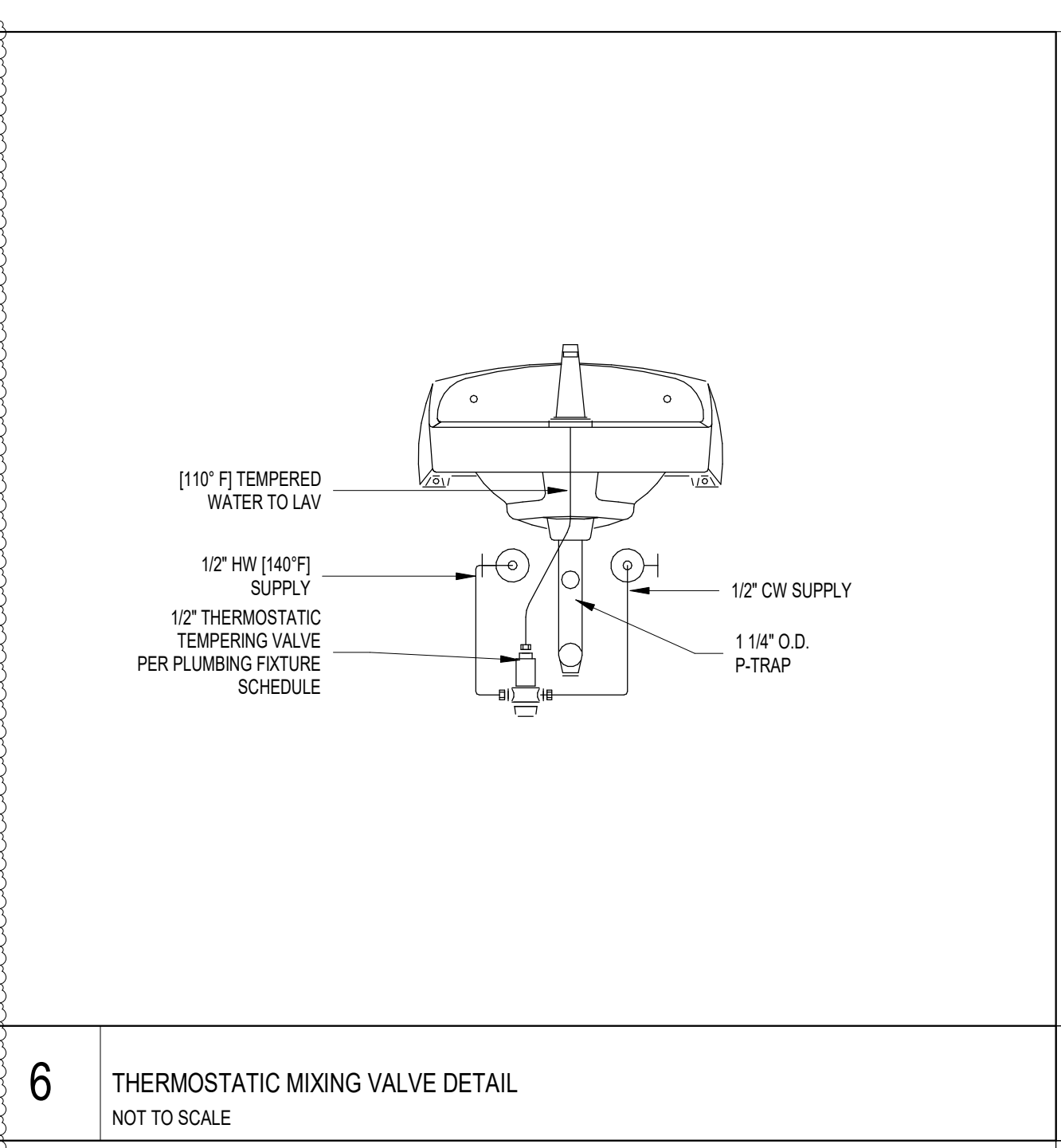
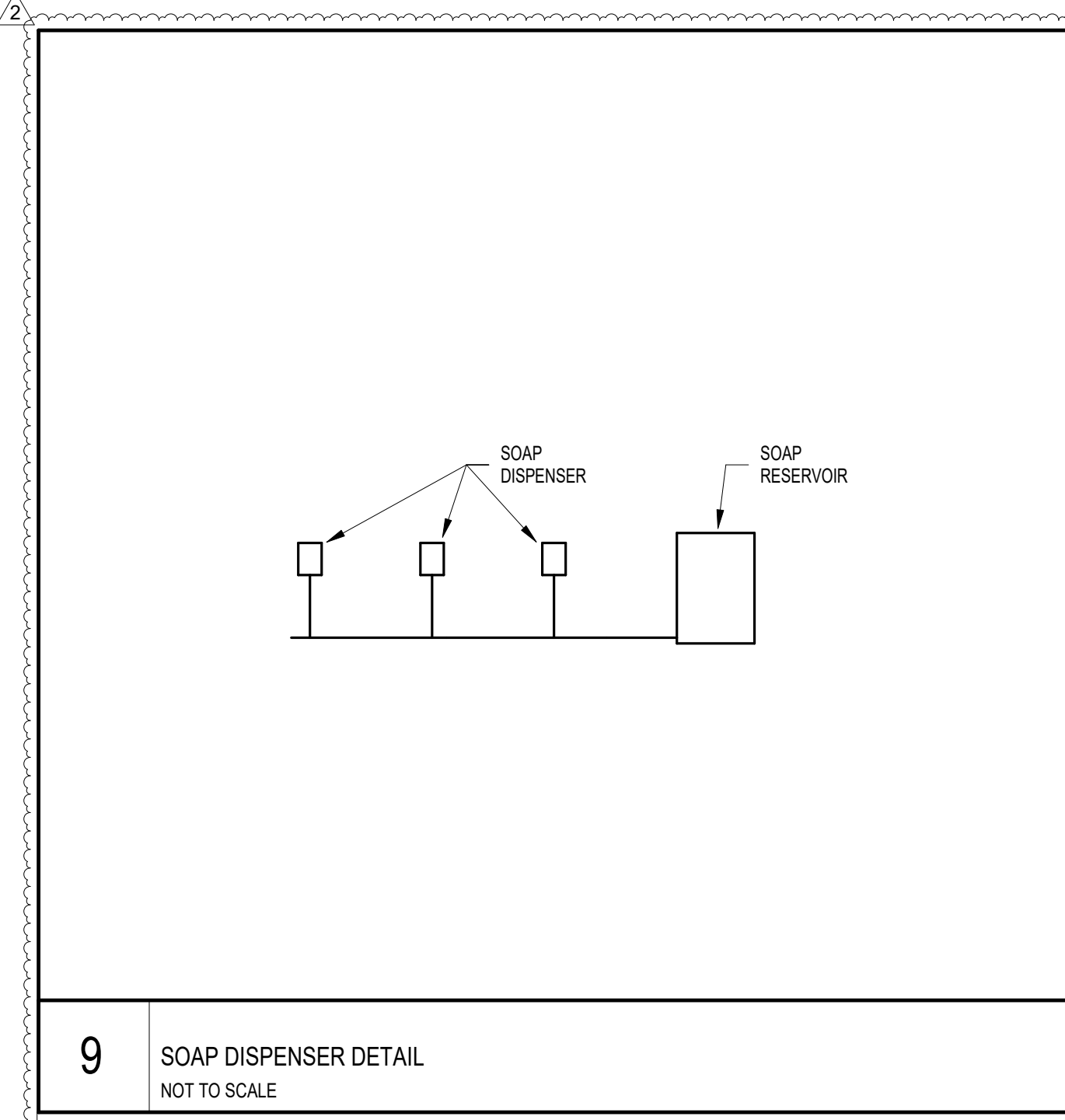
Review/Approval Category
IFB
ISSUED FOR BIDDING



SHEET NAME: **PLUMBING DETAILS**

SHEET No. PG301 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1



FILE PATH: BIM 360//1429.06 Hobby Airport Restroom Renovations/4732_MEP20.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No.:

A

B

C

D

E

FLOOR DRAIN SCHEDULE

Table with 10 columns: MARK, FIXTURE, AREA(S) SERVED, ROUGH-IN CONNECTION SIZE (C.W., H.W., WASTE, VENT), MANUFACTURER, MODEL, DESCRIPTION AND NOTES. Includes note: ALL FLOOR DRAINS AND FLOOR SINKS TO USE PRECISION PLUMBING PRODUCTS TRAP PRIMERS OR APPROVED EQUAL.

PLUMBING FIXTURE AND CONNECTION SCHEDULE

Table with 10 columns: MARK, FIXTURE, AREA(S) SERVED, ROUGH-IN CONNECTION SIZE (C.W., H.W., WASTE, VENT), MANUFACTURER, MODEL, DESCRIPTION AND NOTES. Lists various fixtures like drinking fountains, lavatories, service sinks, urinals, and water closets.

PLUMBING PIPE MATERIALS

Table with 2 columns: SYSTEM, SERVICE. Lists materials for domestic water pipe (Type L Copper) and sanitary sewer (Cast Iron).



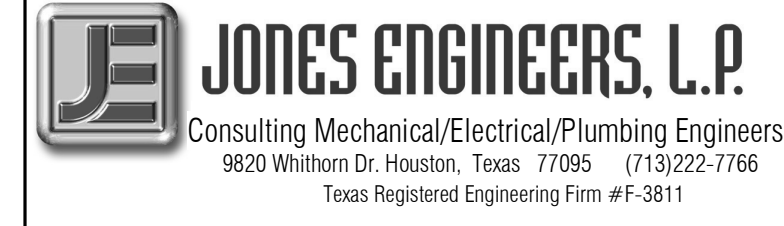
7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS
PHASE 2

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com



Consulting Mechanical/Electrical/Plumbing Engineers
5820 Wilshire Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

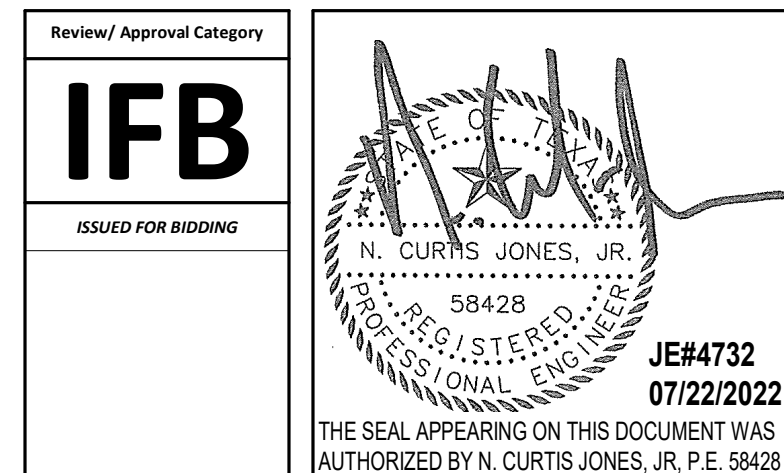
DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS

Table with 4 columns: No., DESCRIPTION, DATE, BY. Lists two revisions: Issue for Bidding and Addendum 4.

DESIGN BY: TIM LUBER
DRAWN BY: TIM LUBER
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM



SHEET NAME: PLUMBING SCHEDULES

SHEET No. PG401 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/4732_MEP2D.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

A B C D E

4

3

2

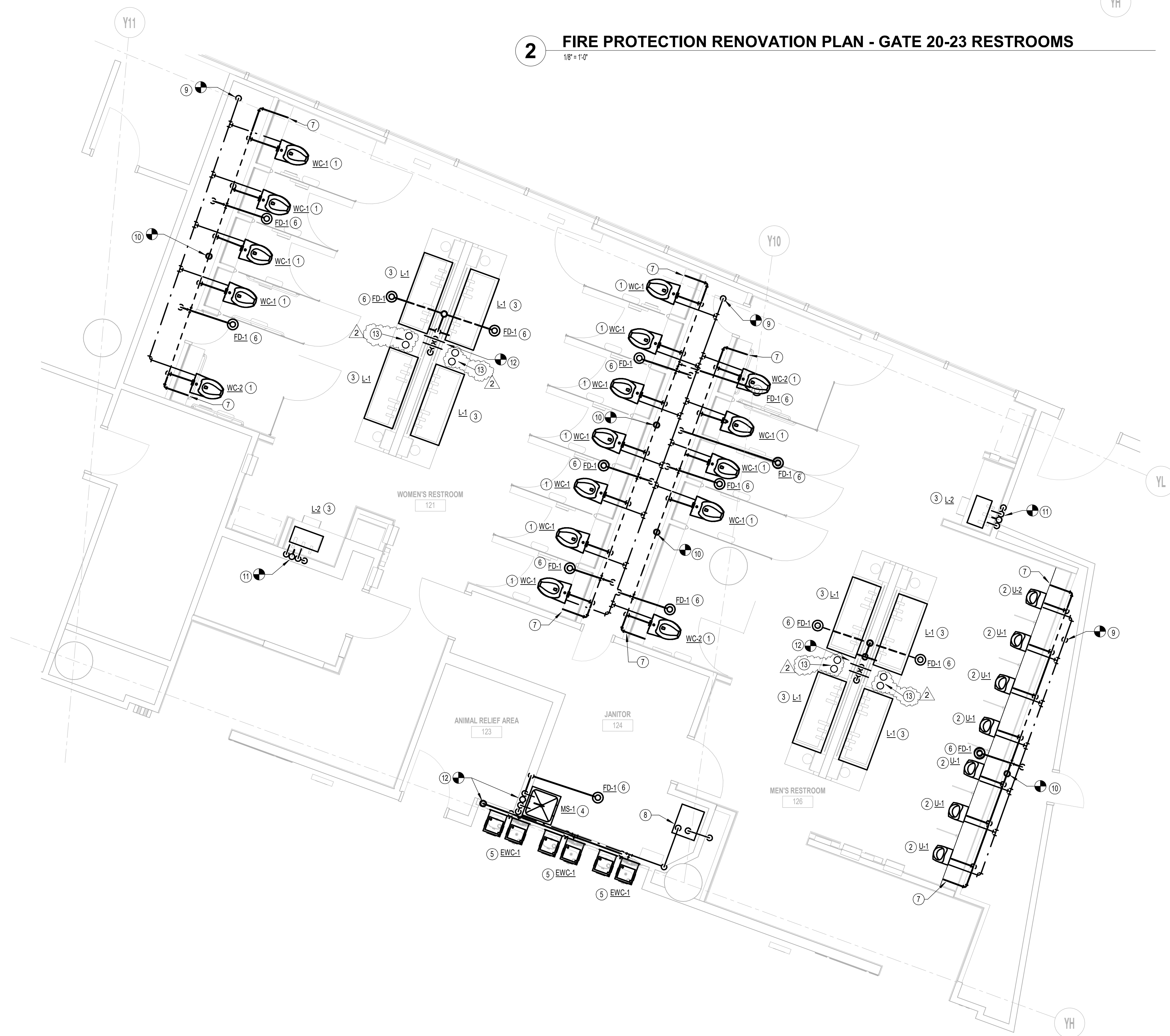
1

GENERAL NOTE: BUILDING TO BE 100% SPRINKLERED, PER NFPA 13.

GENERAL NOTE: ALL PUBLIC SINKS AND LAVATORIES SHALL BE SET TO A MAXIMUM OF 110°F.

SPRINKLER HEADS TO BE RELOCATED TO ACCOMMODATE NEW FLOOR AND CEILING PLANS.

2 FIRE PROTECTION RENOVATION PLAN - GATE 20-23 RESTROOMS



1 PLUMBING RENOVATION PLAN - GATE 20-23 RESTROOMS

RENOVATION PLAN KEY NOTES table with 13 numbered notes detailing plumbing and fire protection requirements.

HOUSTON AIRPORTS logo and contact information. RDLR Architects logo and contact information. JONES ENGINEERS, L.P. logo and contact information.

DESIGNER PROJECT No.: 1429.05 PROJECT STATUS: IFB

REVISIONS table with columns for No., DESCRIPTION, DATE, and BY.

DESIGN BY: TIM LUBER DRAWN BY: TIM LUBER CHECKED BY: RON HUGHES ISSUE DATE: 03.22.22 APPROVED BY: N CURT JONES APPROVAL DATE: 03/22/2022

DIRECTOR of HOUSTON AIRPORT SYSTEM

IFB logo and professional seal for N. Curtis Jones, Jr., P.E. #58428.

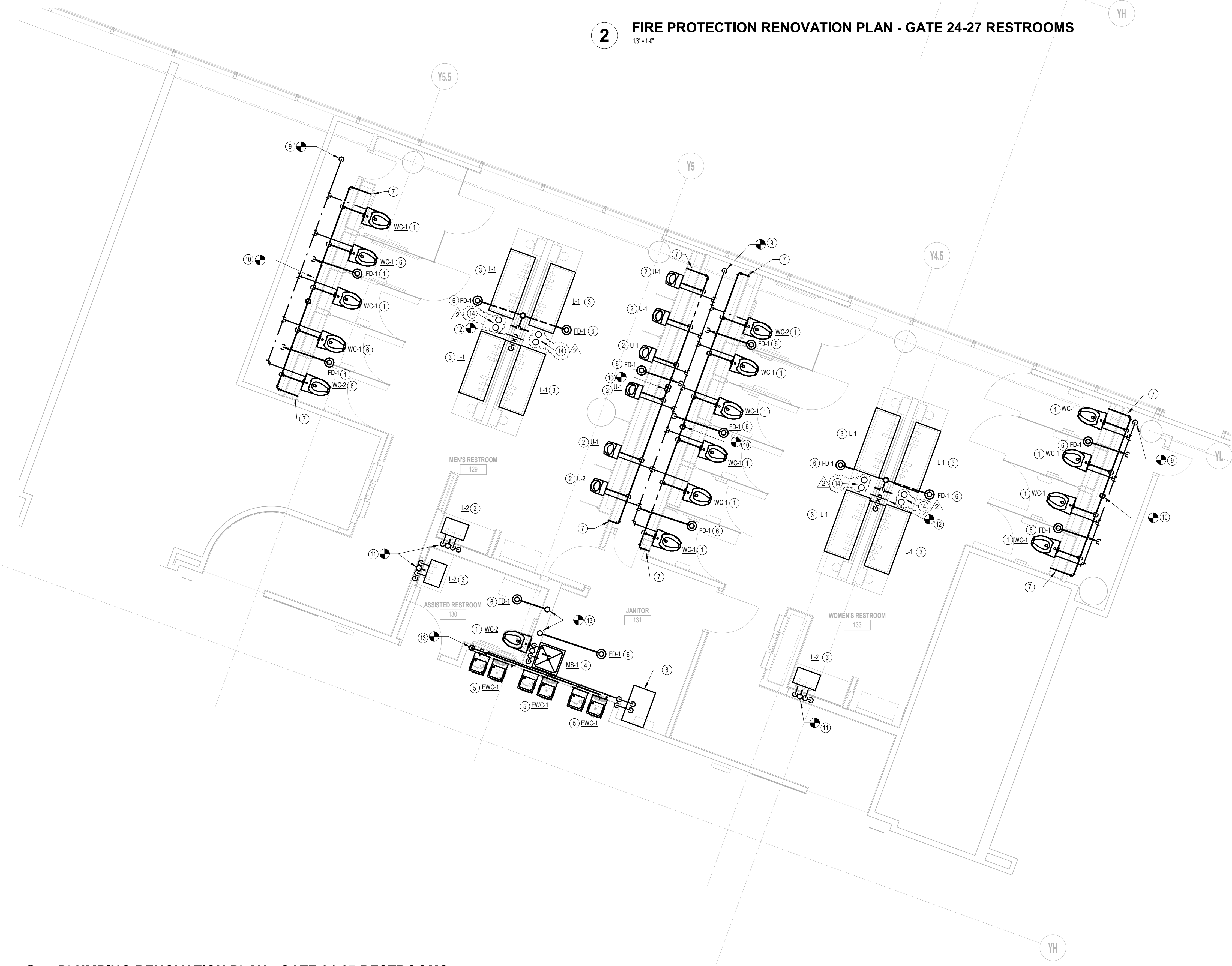
SHEET NAME: PLUMBING RENOVATION PLAN - GATE 20-23 RESTROOMS SHEET No.: PP101 SCALE: As indicated SHEET SIZE: 30"x42" ARCH E1

A B C D E

GENERAL NOTE:
BUILDING TO BE 100%
SPRINKLERED, PER NFPA 13.

GENERAL NOTE:
ALL PUBLIC SINKS AND
LAVATORIES SHALL BE SET
TO A MAXIMUM OF 110°F.

2 FIRE PROTECTION RENOVATION PLAN - GATE 24-27 RESTROOMS
1/8" = 1'-0"



RENOVATION PLAN KEY NOTES	
#	NOTE
1	PROVIDE NEW WATER CLOSET, CARRIER, FLUSH VALVE, TRIM, ETC ACCORDING TO SCHEDULE. ROUTE ALL NEW 4" SANITARY WASTE & VENT AND 1-1/2" DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
2	PROVIDE NEW URINAL, CARRIER, FLUSH VALVE, TRIM, ETC ACCORDING TO SCHEDULE. ROUTE ALL NEW 4" SANITARY WASTE & VENT AND 1-1/2" DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
3	PROVIDE NEW LAVATORY, CARRIER, TRIM, ETC ACCORDING TO SCHEDULE. ROUTE ALL NEW 2" SANITARY WASTE & VENT AND 1-1/2" DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
4	PROVIDE NEW MOP SINK ACCORDING TO SCHEDULE. ROUTE ALL NEW 4" SANITARY WASTE & VENT AND 3/4" DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
5	PROVIDE NEW ELECTRIC DRINKING FOUNTAIN ACCORDING TO SCHEDULE. ROUTE ALL NEW 2" SANITARY WASTE & VENT AND 3/4" DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING. CONNECT TO EXISTING REMOTE CHILLER. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
6	PROVIDE NEW FLOOR DRAIN ACCORDING TO SCHEDULE. ROUTE ALL NEW 4" SANITARY WASTE & VENT AND 3/4" DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
7	PROVIDE NEW CLEAN OUT IN EASILY ACCESSIBLE LOCATION.
8	EXISTING REMOTE CHILLER TO REMAIN.
9	CONNECT NEW 2" DOW LINE TO EXISTING DOW RISER, WITH 1-1/2" DOW BRANCHES FOR WATER CLOSETS. PROVIDE ISOLATION SHUT-OFF VALVE IN A CONVENIENT ACCESSIBLE LOCATION FOR BANK OF WATER CLOSETS. VERIFY EXACT LOCATION, AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
10	CONNECT NEW 4" SAN WASTE AND VENT TO EXISTING SAN WASTE AND VENT RISERS. PROVIDE NEW CLEANOUT FOR SAN WASTE RISER. VERIFY EXACT LOCATION, AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
11	CONNECT NEW 3/4" DOW, 3/4" DHW, 3/4" DHWR, 2" SAN WASTE AND VENT TO EXISTING DOW, DHW, DHWR, SAN WASTE AND VENT RISERS. PROVIDE NEW CLEANOUT FOR SAN WASTE RISER AND DOMESTIC WATER ISOLATION SHUT-OFF VALVES WITHIN AN ACCESS PANEL. VERIFY EXACT LOCATION, AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
12	CONNECT NEW 3/4" DOW, 3/4" DHW, 3/4" DHWR, 4" SAN WASTE AND VENT TO EXISTING DOW, DHW, DHWR, SAN WASTE AND VENT RISERS. PROVIDE NEW CLEANOUT FOR SAN WASTE RISER AND DOMESTIC WATER ISOLATION SHUT-OFF VALVES WITHIN AN ACCESS PANEL. VERIFY EXACT LOCATION, AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
13	CONNECT NEW 1-1/2" DOW, 3/4" DHW, 3/4" DHWR, 4" SAN WASTE AND VENT TO EXISTING DOW, DHW, DHWR, SAN WASTE AND VENT RISERS. PROVIDE NEW CLEANOUT FOR SAN WASTE RISER AND DOMESTIC WATER ISOLATION SHUT-OFF VALVES WITHIN AN ACCESS PANEL. VERIFY EXACT LOCATION, AND REQUIREMENTS IN FIELD. CORESAW CUT FLOOR AS REQUIRED.
14	PROVIDE 1 GALLON SOAP DISPENSER RESERVOIRS AT THIS LOCATION. REFER TO DIAGRAM ON PGS01.

1 PLUMBING RENOVATION PLAN - GATE 24-27 RESTROOMS
1/8" = 1'-0"

HOUSTON AIRPORTS
7800 Airport Blvd
Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.I.P. No. PN466B A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.
Consulting Mechanical/Electrical/Plumbing Engineers
5820 Whitson Dr. Houston, Texas 77055 (713)222-7766
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.: 1429.05
PROJECT STATUS: IFB

REVISIONS			
No.	DESCRIPTION	DATE	BY
1	Issue for Bidding	03.22.22	JE
2	Addendum 4	07.22.22	JE

DESIGN BY: TIM LUBER
DRAWN BY: TIM LUBER
CHECKED BY: RON HUGHES
ISSUE DATE: 03.22.22
APPROVED BY: N CURT JONES
APPROVAL DATE: 03/22/2022

DIRECTOR of HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING

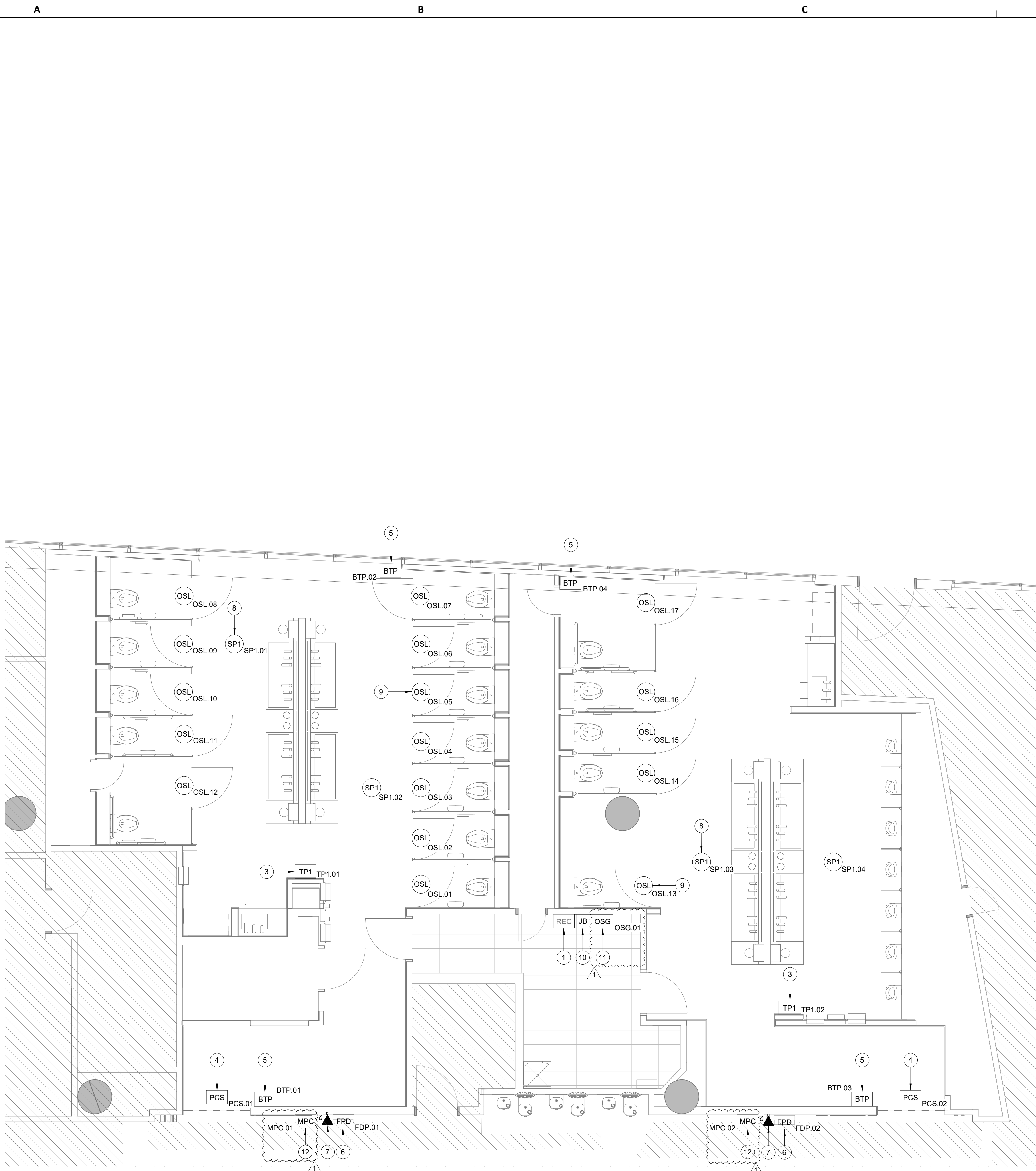
JE#4732
07/22/2022
N. CURTIS JONES, JR.
58428
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR., P.E. 58428

SHEET NAME: PLUMBING RENOVATION PLAN - GATE 24-27 RESTROOMS
SHEET No. PP102 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360//1429.06 Hobby Airport Restroom Renovations/4732_MEP2D.rvt
HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:



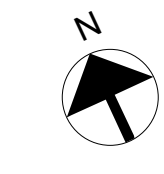
A1 TECHNOLOGY - FLOOR PLAN - GATE 20-23 RESTROOMS
 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
- COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- SCREENED DEVICES DENOTES EXISTING.
- RETURN ANY DEMO'D TECHNOLOGY DEVICES TO HAS IT.

KEYED NOTES

- EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
- (NO LONGER USED.)
- REPLACE EXISTING IPAD WITH SAMSUNG GALAXY A71 LTE. MOUNT TO WALL WITH ARMOR ACTIVE ELITE ENCLOSURE AND WEDGE MOUNT. WITH A BOUNCEPAD VESA MAXI CASE. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.
- REPLACE EXISTING PASSENGER COUNT SENSOR WITH XOVIS PC2-S. MOUNTED WITH PA-PC2-FM - FLUSH MOUNT KIT. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. (1) CAT6 CABLE ROUTED THROUGH A 1" C. TO EXISTING REC.
- REPLACE EXISTING BLUETOOTH BEACON PUCK WITH KONTAKT.IO ANCHOR BEACON 2. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- FLAT PANEL DISPLAY. LG 32SM5KE. MOUNTED TO WALL WITH SMARTMOUNT SF832P.
- 2-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED TO WALL BEHIND FLAT PANEL DISPLAY. 2 CAT6 CABLE ROUTED THROUGH A 1" C TO IDF S102.1.
- REPLACE CEILING SPEAKER WITH NEW JBL CONTROL 24CT. KEEP THE SAME/CLOSEST TAP VALUE, AND TURN OLD SPEAKER OVER TO HAS IT.
- BATHROOM STALL OCCUPANCY LIGHTS. ZURN Z-LIGHT-W1. MOUNT AT 6" INSIDE THE STALL. MEASURED FROM THE STALL DOOR AS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
- LOCATION OF JUNCTION BOX FOR BATHROOM STALL OCCUPANCY LIGHTS POWER SUPPLY. JUNCTION BOX TO HAVE 1" CONDUIT ROUTED TO CEILING.
- BATHROOM STALL OCCUPANCY LIGHT GATEWAY. ZURN ZGW-WRP-W1-ETH. PLACE INSIDE NEW WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
- MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



HENDERSON ROGERS
structural engineers

2603 Augusta, Suite 800 Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com



3838 N Sam Houston Pkwy, Ste. 550 Houston, TX 77058
346.570.2418
pgaengineers.com
TBPE FRM #12493

DESIGNER PROJECT No.: 2021.001
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
	ISSUED FOR BIDDING	03.22.22	PGA
1	ADDENDUM 4	07.22.22	PGA

DESIGN BY: PGA
DRAWN BY: AC
CHECKED BY: JG
ISSUE DATE: 07/22/2022
APPROVED BY: Approver
APPROVAL DATE: 07/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING



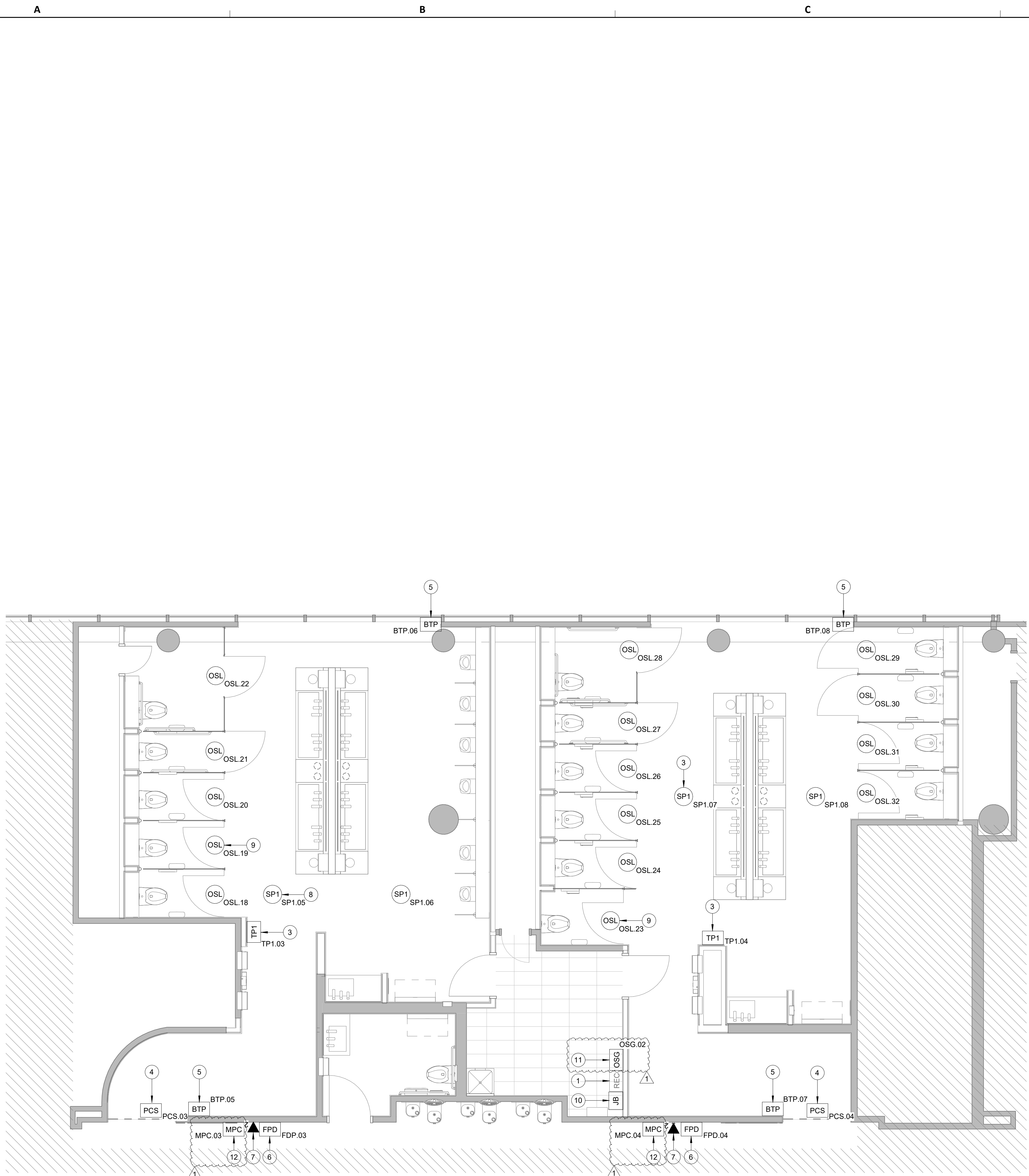
SHEET NAME: TECHNOLOGY - FLOOR PLAN - GATE 20-23 RESTROOMS
SHEET No. T-101 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/2021.001 - RDLR (HOU RR RENO) - PGA.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:



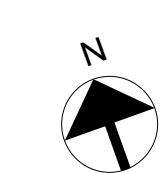
A1 TECHNOLOGY - FLOOR PLAN - GATE 24-27 RESTROOMS
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
2. COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
3. SCREENED DEVICES DENOTES EXISTING.
4. RETURN ANY DEMO'D TECHNOLOGY DEVICES TO HAS IT.

KEYED NOTES

1. EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
2. (NO LONGER USED)
3. REPLACE EXISTING IPAD WITH SAMSUNG GALAXY A71 LTE. MOUNT TO WALL WITH ARMOR ACTIVE ELITE ENCLOSURE AND WEDGE MOUNT. WITH A BOUNCEPAD VESA MAXI CASE. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.
4. REPLACE EXISTING PASSENGER COUNT SENSOR WITH XOVIS PC2-S. MOUNTED WITH PA-PC2-FM - FLUSH MOUNT KIT. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. (1) CAT6 CABLE ROUTED THROUGH A 1" C. TO EXISTING REC.
5. REPLACE EXISTING BLUETOOTH BEACON PUCK WITH KONTAKT.IO ANCHOR BEACON 2. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
6. FLAT PANEL DISPLAY, LG 32SM5KE. MOUNTED TO WALL WITH SMARTMOUNT SF832P.
7. 2-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED TO WALL BEHIND FLAT PANEL DISPLAY. 2 CAT6 CABLE ROUTED THROUGH A 1" C TO IDF S101.6.
8. REPLACE CEILING SPEAKER WITH NEW JBL CONTROL 24CT. KEEP THE SAME/CLOSEST TAP VALUE, AND TURN OLD SPEAKER OVER TO HAS IT.
9. BATHROOM STALL OCCUPANCY LIGHTS. ZURN Z-LIGHT-W1. MOUNT AT 6" INSIDE THE STALL. MEASURED FROM THE STALL DOOR AS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
10. LOCATION OF JUNCTION BOX FOR BATHROOM STALL OCCUPANCY LIGHTS POWER SUPPLY. JUNCTION BOX TO HAVE 1" CONDUIT ROUTED TO CEILING.
11. BATHROOM STALL OCCUPANCY LIGHT GATEWAY. ZURN ZGW-WRP-W1-ETH. PLACE INSIDE NEW WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
12. MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com



DESIGNER PROJECT No.: 2021.001
PROJECT STATUS: IFB

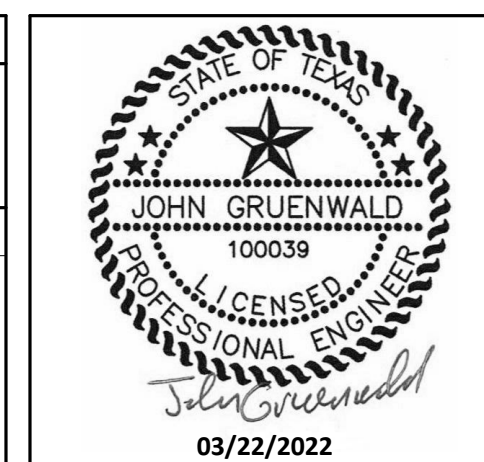
REVISIONS

No.	DESCRIPTION	DATE	BY
	ISSUED FOR BIDDING	03.22.22	PGA
1	ADDENDUM 4	07.22.22	PGA

DESIGN BY: PGA
DRAWN BY: AC
CHECKED BY: JG
ISSUE DATE: 07/22/2022
APPROVED BY: Approver
APPROVAL DATE: 07/22/2022

**DIRECTOR
of
HOUSTON AIRPORT SYSTEM**

Review/Approval Category
IFB
ISSUED FOR BIDDING



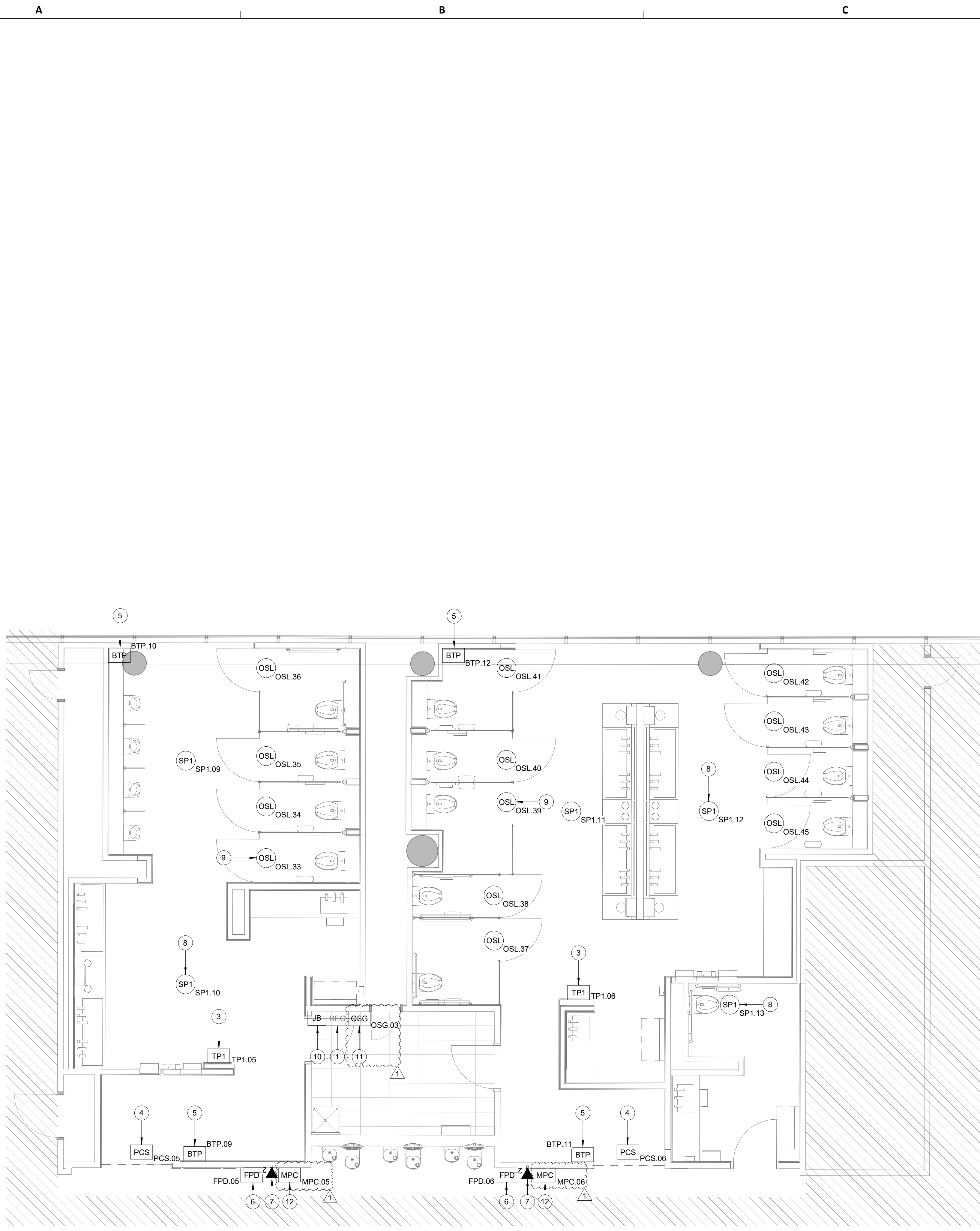
SHEET NAME: TECHNOLOGY - FLOOR PLAN - GATE 24-27 RESTROOMS
SHEET No. T-102 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/2021.001 - RDLR (HOU RR RENO) - PGA.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:



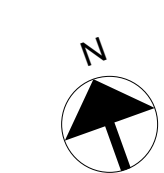
A1 TECHNOLOGY - FLOOR PLAN - GATE 28-32 RESTROOMS
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
2. COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
3. SCREENED DEVICES DENOTES EXISTING.
4. RETURN ANY DEMO'D TECHNOLOGY DEVICES TO HAS IT.

KEYED NOTES

1. EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
2. (NO LONGER USED.)
3. REPLACE EXISTING IPAD WITH SAMSUNG GALAXY A71 LTE. MOUNT TO WALL WITH ARMOR ACTIVE ELITE ENCLOSURE AND WEDGE MOUNT. WITH A BOUNCEPAD VESA MAXI CASE. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.
4. REPLACE EXISTING PASSENGER COUNT SENSOR WITH XOVIS PC2-S. MOUNTED WITH PA-PC2-FM - FLUSH MOUNT KIT. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. (1) CAT6 CABLE ROUTED THROUGH A 1" C. TO EXISTING REC.
5. REPLACE EXISTING BLUETOOTH BEACON PUCK WITH KONTAKT.IO ANCHOR BEACON 2. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
6. FLAT PANEL DISPLAY, LG 32SM5KE. MOUNTED TO WALL WITH SMARTMOUNT SF832P.
7. 2-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED TO WALL BEHIND FLAT PANEL DISPLAY. 2 CAT6 CABLE ROUTED THROUGH A 1" C TO IDF S108.2.
8. REPLACE CEILING SPEAKER WITH NEW JBL CONTROL 24CT. KEEP THE SAME/CLOSEST TAP VALUE, AND TURN OLD SPEAKER OVER TO HAS IT.
9. BATHROOM STALL OCCUPANCY LIGHTS. ZURN Z-LIGHT-W1. MOUNT AT 6" INSIDE THE STALL, MEASURED FROM THE STALL DOOR AS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
10. LOCATION OF JUNCTION BOX FOR BATHROOM STALL OCCUPANCY LIGHTS POWER SUPPLY. JUNCTION BOX TO HAVE 1" CONDUIT ROUTED TO CEILING.
11. BATHROOM STALL OCCUPANCY LIGHT GATEWAY. ZURN ZGW-WRP-W1-ETH. PLACE INSIDE NEW WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
12. MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.



HOUSTON AIRPORTS
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

PGA ENGINEERS, INC.
3838 N Sam Houston Pkwy, Ste. 550
Houston, TX 77058
346.570.2418
pgaengineers.com
TBPE FRM #12493

DESIGNER PROJECT No.: 2021.001
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
	ISSUED FOR BIDDING	03.22.22	PGA
1	ADDENDUM 4	07.22.22	PGA

DESIGN BY: PGA
DRAWN BY: AC
CHECKED BY: JG
ISSUE DATE: 07/22/2022
APPROVED BY: Approver
APPROVAL DATE: 07/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING

STATE OF TEXAS
JOHN GRUENWALD
1000339
LICENSED PROFESSIONAL ENGINEER
John Gruenwald
03/22/2022

SHEET NAME:
TECHNOLOGY - FLOOR PLAN - GATE 28-32 RESTROOMS

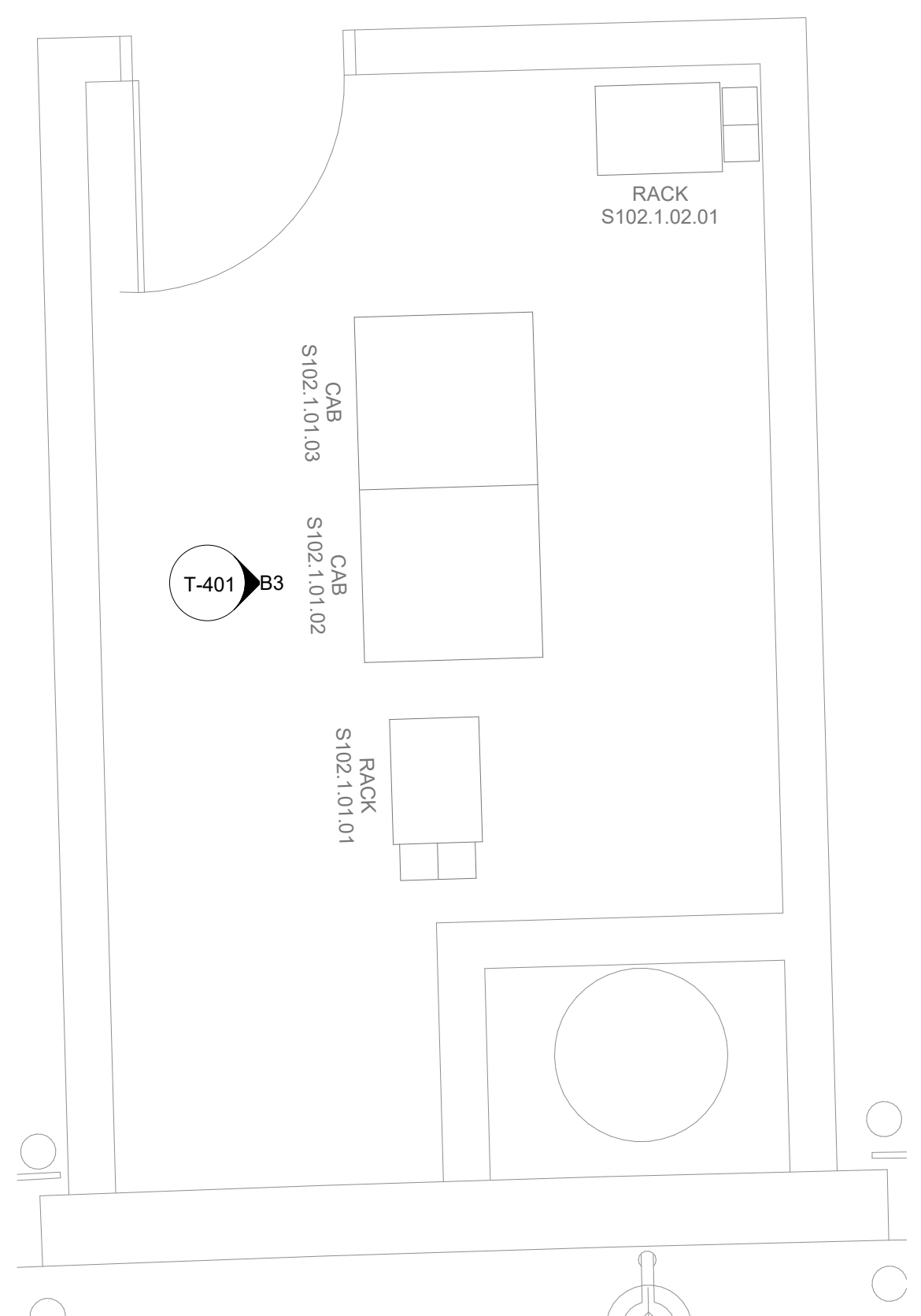
SHEET No. T-103 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

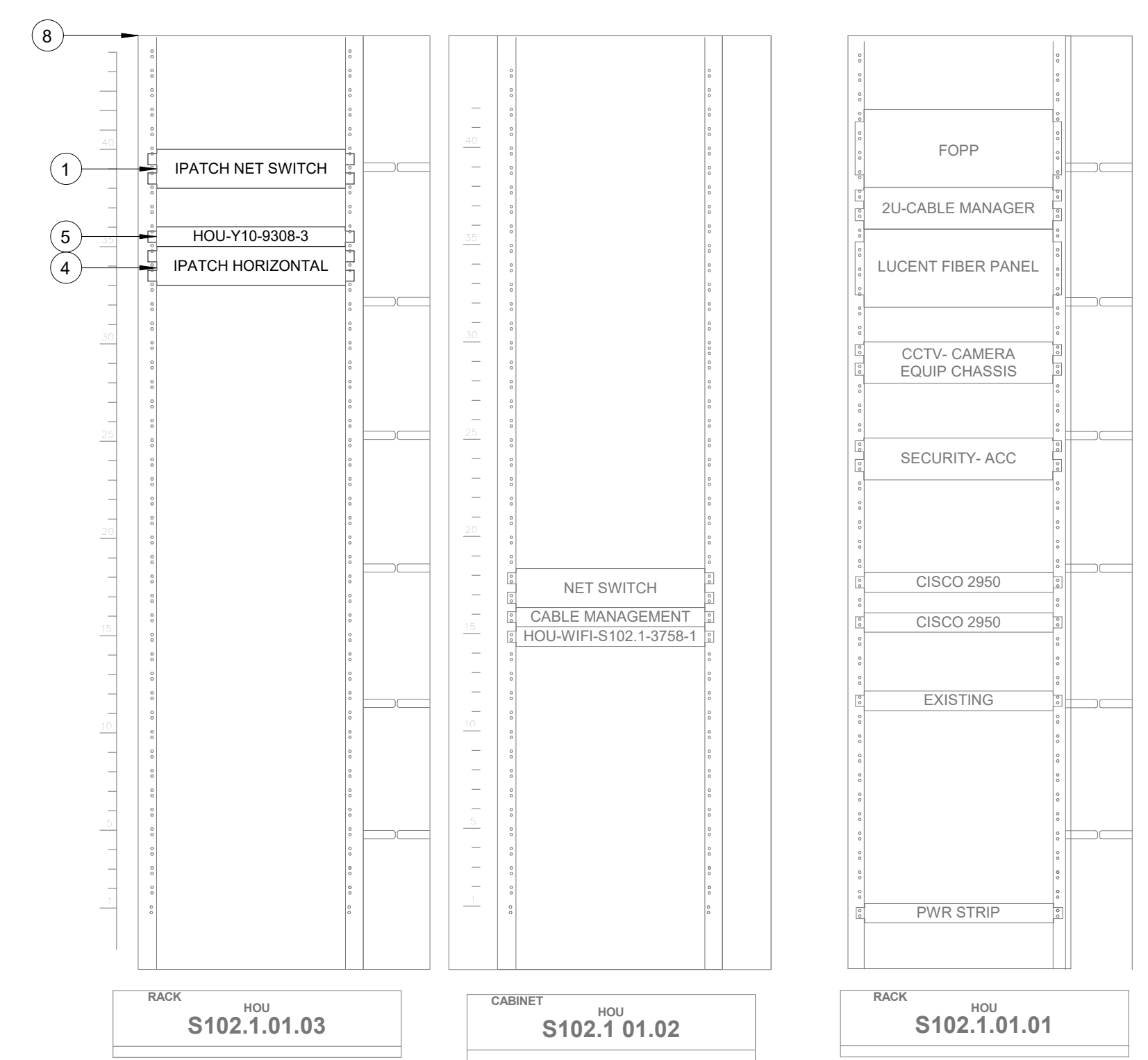
FILE PATH: BIM 360/1429.06 Hobby Airport Restroom Renovations/2021.001 - RDLR (HOU RR RENO) - PGA.rvt

HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:



A3 TECHNOLOGY - ENLARGED PLAN - IDF S102.1
SCALE: 1/2" = 1'-0"



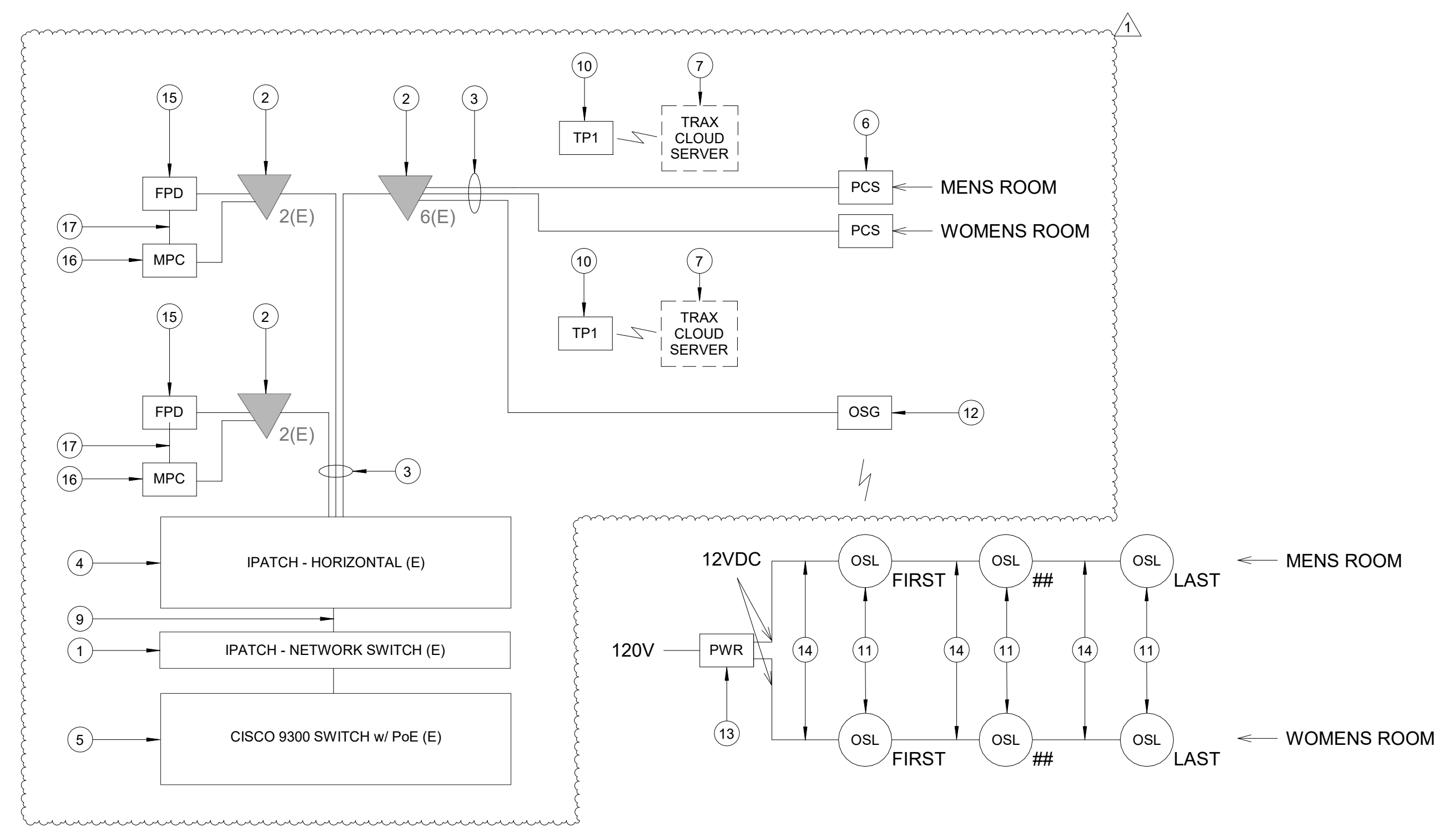
B3 IDF S102.1 - CABINET/RACK ELEVATIONS
SCALE: 1" = 1'-0"

GENERAL NOTES

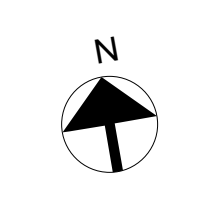
- TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
- COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- SCREENED DEVICES DENOTES EXISTING.

KEYED NOTES

- IPATCH NETWORK SWITCH. (E)
- CATEGORY 6 DATA RECEPTACLE.
- CATEGORY 6 CABLES.
- IPATCH HORIZONTAL. (E)
- CISCO 9300 NETWORK SWITCH. (E)
- PASSENGER COUNT SENSOR, XOVIS PC2-S. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- TRAX CLOUD SERVER, LOCATED OFFSITE.
- EQUIPMENT RACK '01.03" (E). REFERENCE DETAIL "B3" ON THIS SHEET.
- CATEGORY 6 PATCH CORDS.
- TABLET, SAMSUNG GALAXY A7. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- BATHROOM STALL OCCUPANCY LIGHTS, ZURN Z-LIGHT-W1. EXACT NUMBER DAISY-CHAINED NOT SHOWN, REFERENCE SHEET T-101.
- BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. LOCATED IN GATE 20-23 RESTROOM JANITOR CLOSET REC. REFERENCE SHEET T-101.
- BATHROOM STALL OCCUPANCY LIGHT POWER SUPPLY, ZURN Z-PWRSUP-W1. MUST BE HARD WIRED BY ELECTRICIAN AND INSTALLED INTO A STANDARD 4-1/16" SQUARE METAL JUNCTION BOX IN ACCORDANCE WITH APPLICABLE LOCAL ELECTRIC CODE. REFERENCE SPECIFICATIONS.
- PLENUM RATED 16 GAUGE 2 CONDUCTOR WIRE. REFERENCE SPECIFICATIONS.
- EXISTING FLAT PANEL DISPLAY, LG 32SMSKE.
- MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- HDMI CABLE.



A1 IDF S102.1 - ONE LINE DIAGRAM
SCALE: NTS



HOUSTON AIRPORTS
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

PGA ENGINEERS, INC.
3838 N. Sam Houston Pkwy., Ste. 550
Houston, TX 77032
346.570.2418
pgaengineers.com
TBP# FIRM #12493

DESIGNER PROJECT No.: 2021.001
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	ISSUED FOR BIDDING	03.22.22	PGA
1	ADDENDUM 4	07.22.22	PGA

DESIGN BY: PGA
DRAWN BY: AC
CHECKED BY: JG
ISSUE DATE: 07/22/2022
APPROVED BY: Approver
APPROVAL DATE: 07/22/2022

**DIRECTOR
of
HOUSTON AIRPORT SYSTEM**

Review/Approval Category
IFB
ISSUED FOR BIDDING

STATE OF TEXAS
JOHN GRUENWALD
1000339
LICENSED PROFESSIONAL ENGINEER
03/22/2022

SHEET NAME:
TECHNOLOGY - ENLARGED PLAN - IDF S102.1

SHEET No. T-401 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360//1429.06 Hobby Airport Restroom Renovations/2021.001 - RDLR (HOU RR RENO) - PGA.rvt
HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

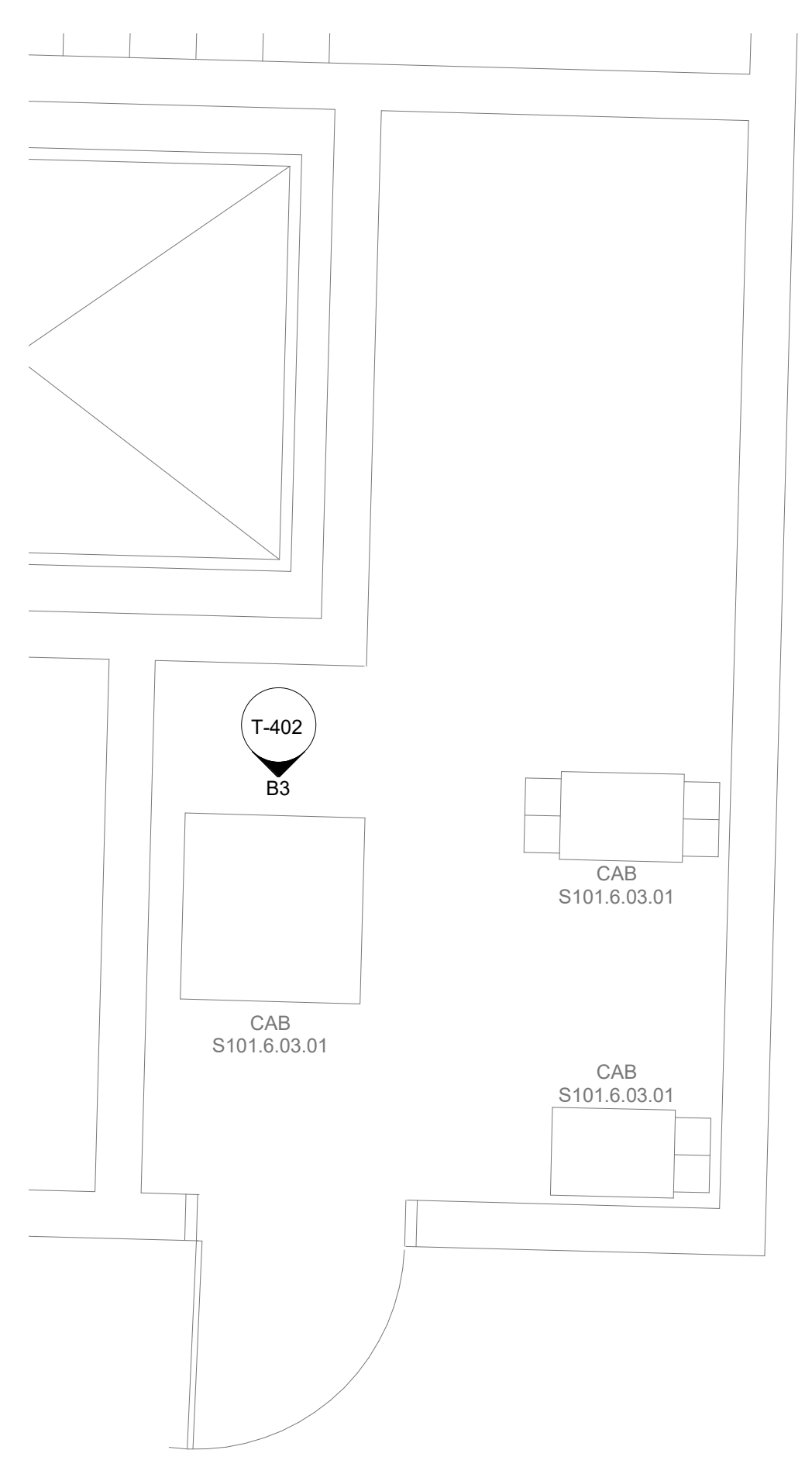
A

B

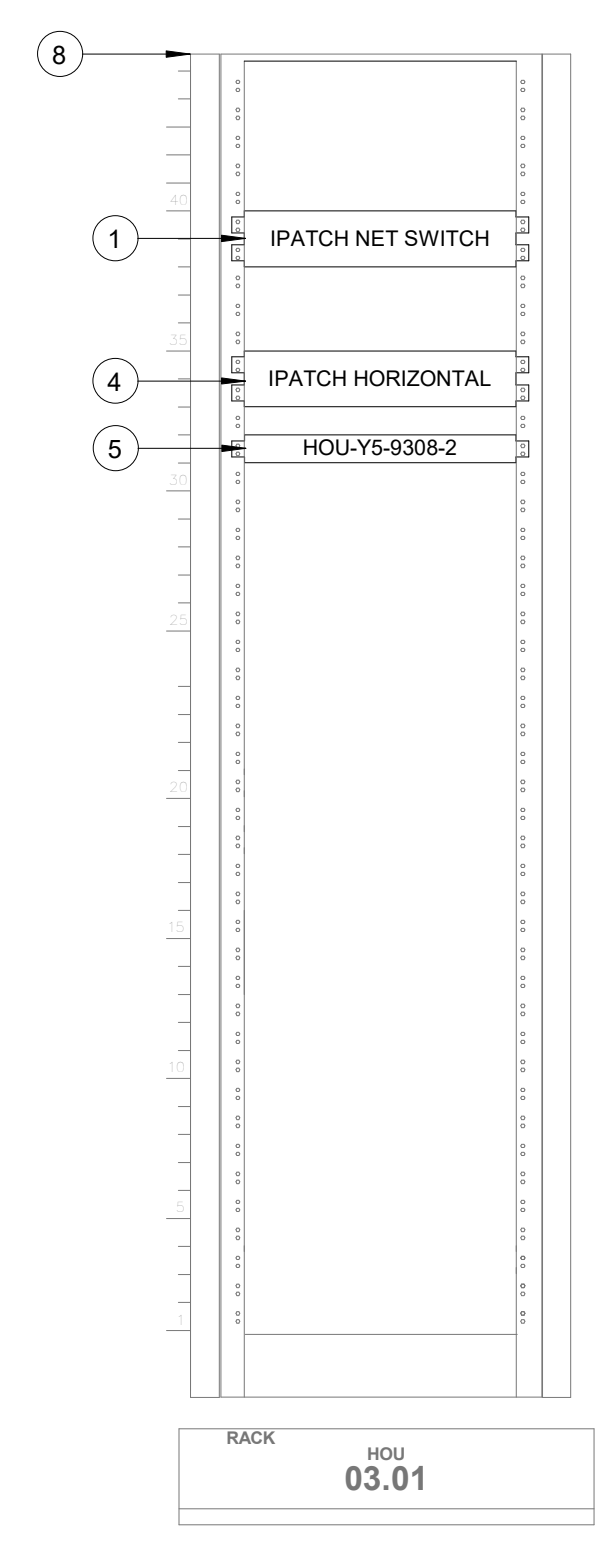
C

D

E



A3 TECHNOLOGY - ENLARGED PLAN - IDF S101.6
SCALE: 1/2" = 1'-0"



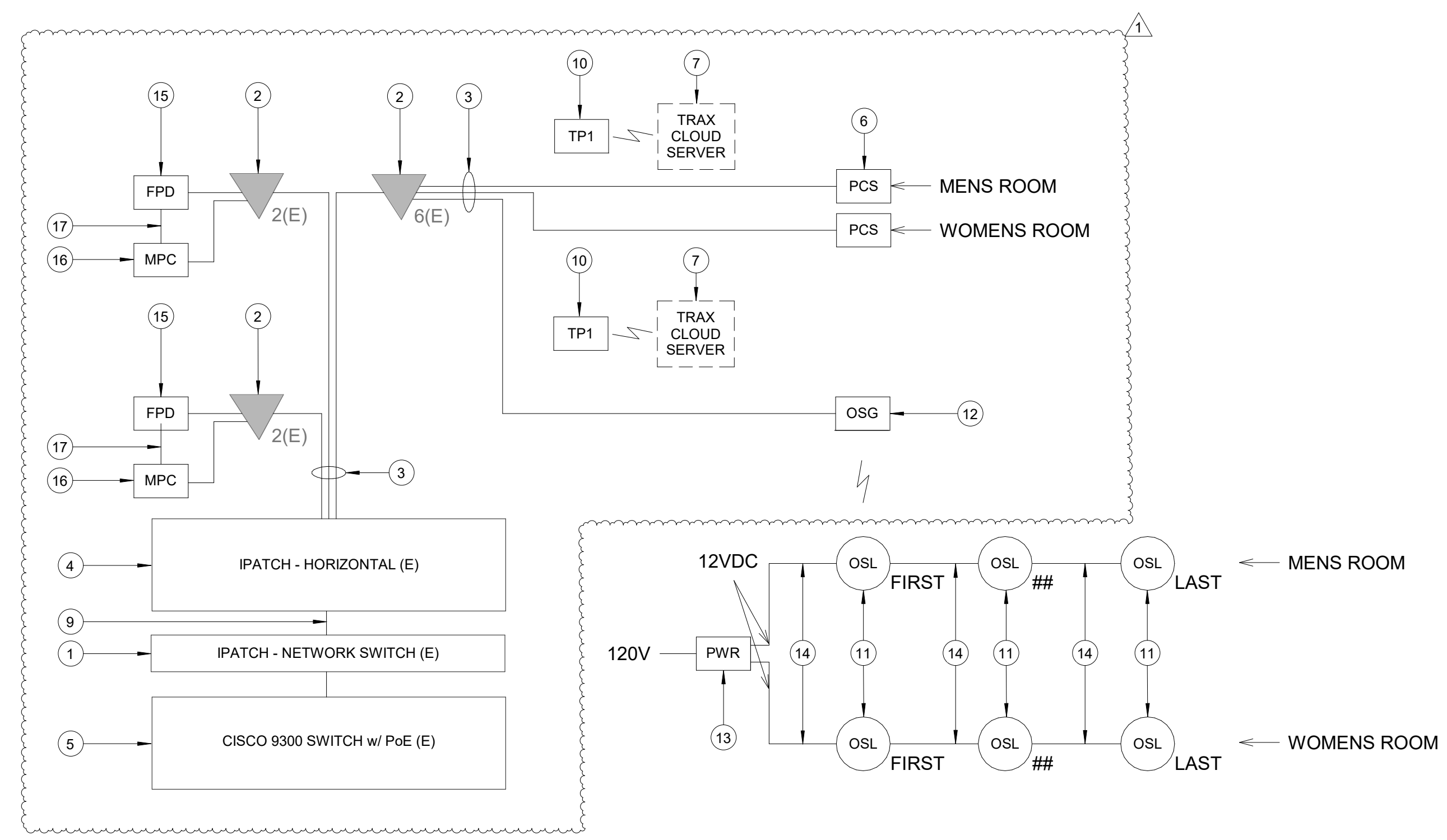
B3 IDF S101.6 - CABINET/RACK ELEVATIONS
SCALE: 1" = 1'-0"

GENERAL NOTES

- TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
- COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- SCREENED DEVICES DENOTES EXISTING.

KEYED NOTES

- IPATCH NETWORK SWITCH. (E)
- CATEGORY 6 DATA RECEPTACLE.
- CATEGORY 6 CABLES.
- IPATCH HORIZONTAL. (E)
- CISCO 9300 NETWORK SWITCH. (E)
- PASSENGER COUNT SENSOR, XOVIS PC2-S. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- TRAX CLOUD SERVER, LOCATED OFFSITE.
- EQUIPMENT RACK '03.01' (E). REFERENCE DETAIL 'B3' ON THIS SHEET.
- CATEGORY 6 PATCH CORDS.
- TABLET, SAMSUNG GALAXY A7. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- BATHROOM STALL OCCUPANCY LIGHTS, ZURN Z-LIGHT-W1. EXACT NUMBER DAISY-CHAINED NOT SHOWN, REFERENCE SHEET T-102.
- BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. LOCATED IN GATE 24-27 RESTROOM JANITOR CLOSET REC. REFERENCE SHEET T-102.
- BATHROOM STALL OCCUPANCY LIGHT POWER SUPPLY, ZURN Z-PWRSUP-W1. MUST BE HARD WIRED BY ELECTRICIAN AND INSTALLED INTO A STANDARD 4-1/16" SQUARE METAL JUNCTION BOX IN ACCORDANCE WITH APPLICABLE LOCAL ELECTRIC CODE. REFERENCE SPECIFICATIONS.
- PLENUM RATED 16 GAUGE 2 CONDUCTOR WIRE. REFERENCE SPECIFICATIONS.
- EXISTING FLAT PANEL DISPLAY, LG 32SM8KE.
- MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- HDMI CABLE.



A1 IDF S101.6 - ONE LINE DIAGRAM
SCALE: NTS

HOUSTON AIRPORTS
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121
Houston, TX 77003 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

PGA ENGINEERS, INC.
3838 N. Sam Houston Pkwy., Ste. 550
Houston, TX 77052
346.570.2418
pgaengineers.com
TBP# FIRM #12493

DESIGNER PROJECT No.: 2021.001
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	ISSUED FOR BIDDING	03.22.22	PGA
1	ADDENDUM 4	07.22.22	PGA

DESIGN BY: PGA
 DRAWN BY: AC
 CHECKED BY: JG
 ISSUE DATE: 07/22/2022
 APPROVED BY: Approver
 APPROVAL DATE: 07/22/2022

**DIRECTOR
of
HOUSTON AIRPORT SYSTEM**

Review/Approval Category
IFB
ISSUED FOR BIDDING

STATE OF TEXAS
JOHN GRUENWALD
1000359
LICENSED PROFESSIONAL ENGINEER
03/22/2022

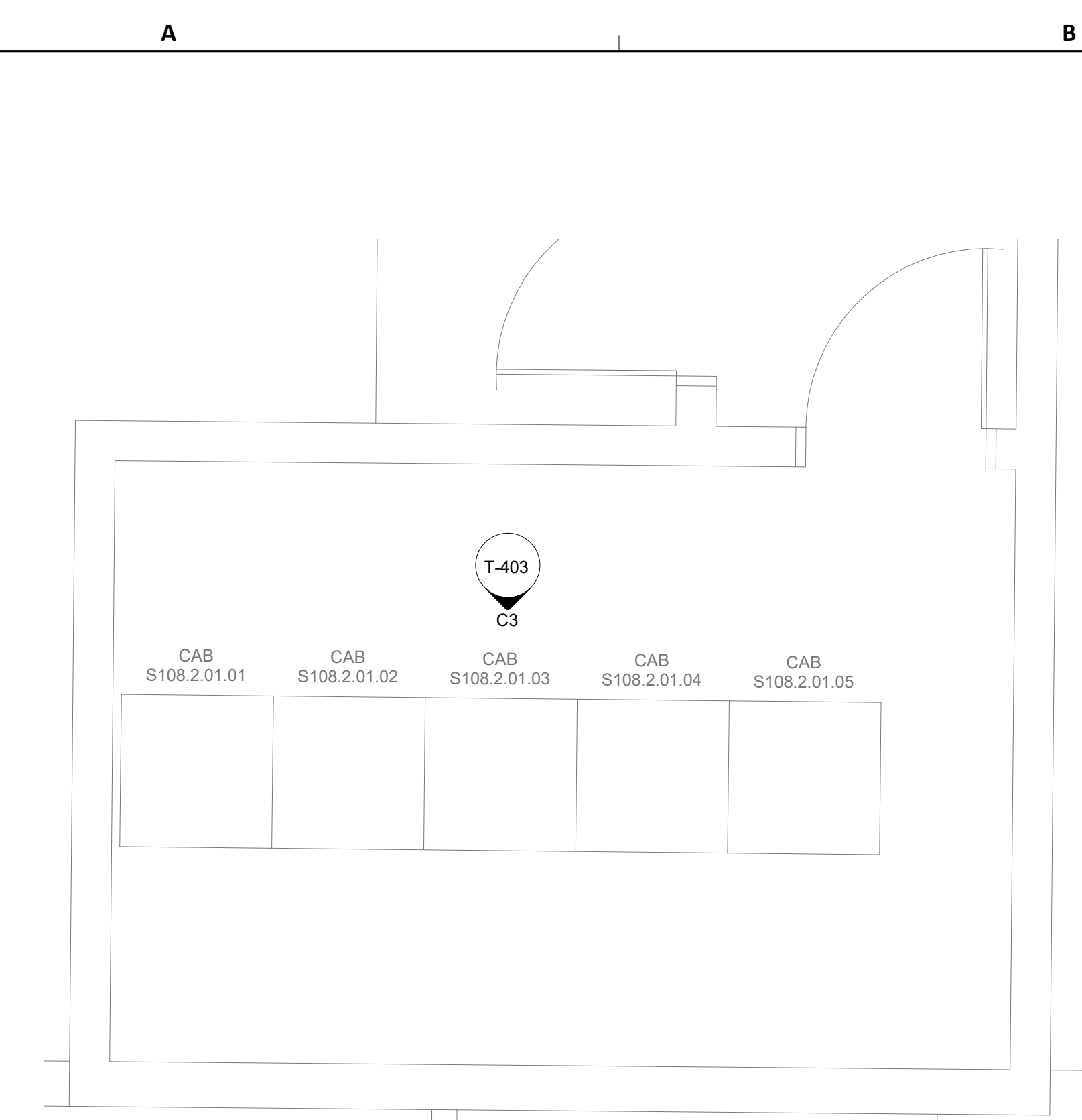
SHEET NAME:
TECHNOLOGY - ENLARGED PLAN - IDF S101.6

SHEET No. T-402 SCALE: As indicated

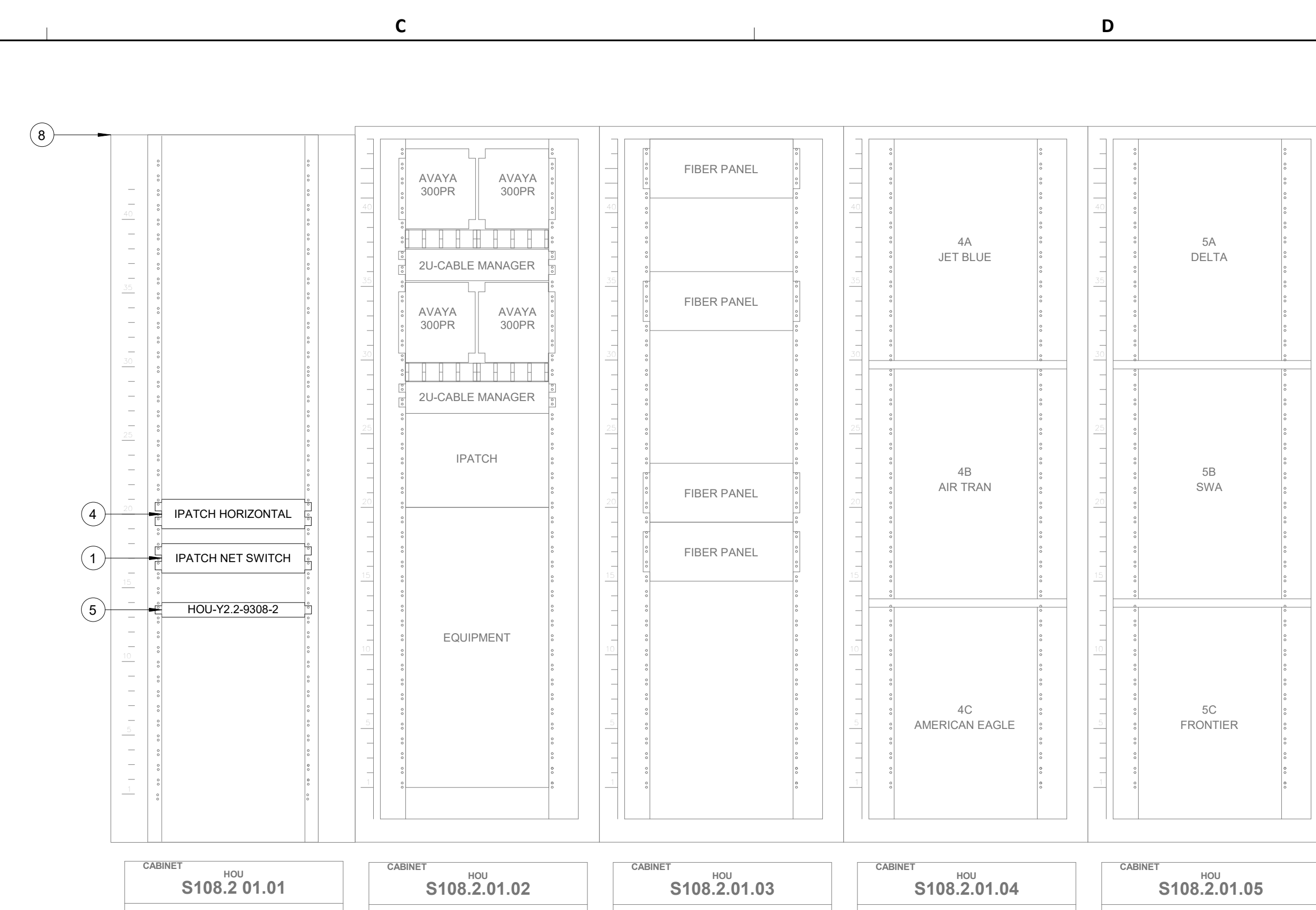
SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360//1429.06 Hobby Airport Restroom Renovations/2021.001 - RDLR (HOU RR RENO) - PGA.rvt
HAS FILE:

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:



A3 TECHNOLOGY - ENLARGED PLAN - IDF S108.2
SCALE: 1/2" = 1'-0"



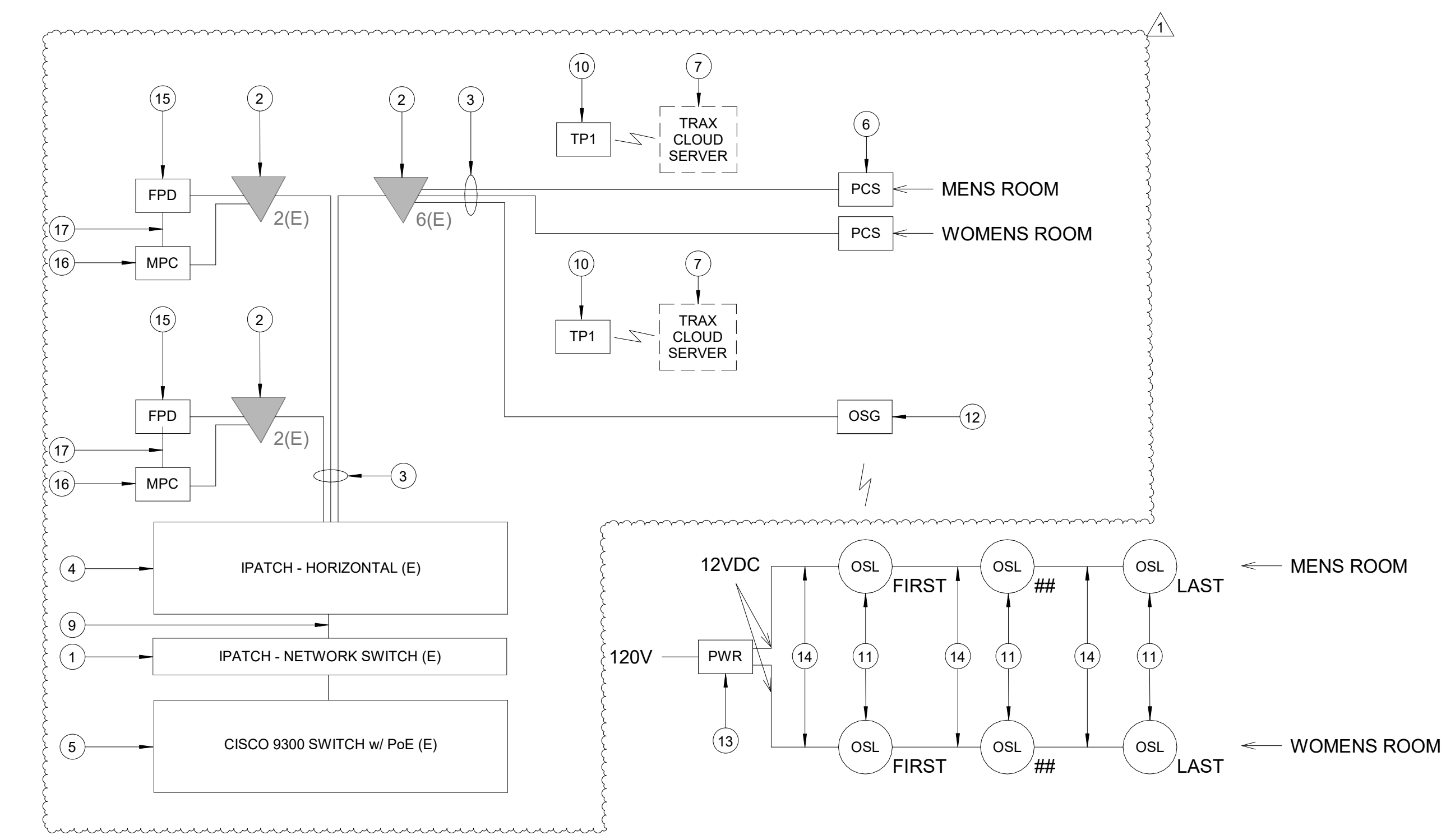
C3 IDF S108.2 - CABINET/RACK ELEVATIONS
SCALE: 1" = 1'-0"

GENERAL NOTES

- TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27.
- COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- SCREENED DEVICES DENOTES EXISTING.

KEYED NOTES

- IPATCH NETWORK SWITCH. (E)
- CATEGORY 6 DATA RECEPTACLE.
- CATEGORY 6 CABLES.
- IPATCH HORIZONTAL. (E)
- CISCO 9300 NETWORK SWITCH. (E)
- PASSENGER COUNT SENSOR, XOVIS PC2-S. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- TRAX CLOUD SERVER, LOCATED OFFSITE.
- EQUIPMENT RACK '01.01' (E). REFERENCE DETAIL 'C3' ON THIS SHEET.
- CATEGORY 6 PATCH CORDS.
- TABLET, SAMSUNG GALAXY A7. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- BATHROOM STALL OCCUPANCY LIGHTS, ZURN Z-LIGHT-W1. EXACT NUMBER DAISY-CHAINED NOT SHOWN, REFERENCE SHEET T-103.
- BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. LOCATED IN GATE 28-32 RESTROOM JANITOR CLOSET REC. REFERENCE SHEET T-103.
- BATHROOM STALL OCCUPANCY LIGHT POWER SUPPLY, ZURN Z-PWRSUP-W1. MUST BE HARD WIRED BY ELECTRICIAN AND INSTALLED INTO A STANDARD 4-1/16" SQUARE METAL JUNCTION BOX IN ACCORDANCE WITH APPLICABLE LOCAL ELECTRIC CODE. REFERENCE SPECIFICATIONS.
- PLENUM RATED 16 GAUGE 2 CONDUCTOR WIRE. REFERENCE SPECIFICATIONS.
- EXISTING FLAT PANEL DISPLAY, LG 32SMSKE.
- MINI COMPUTER, NOW MICRO DMPS-2200. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.
- HDMI CABLE.



A1 IDF S108.2 - ONE LINE DIAGRAM
SCALE: NTS

HOUSTON AIRPORTS
7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com

JONES ENGINEERS, L.P.

HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com

PGA ENGINEERS, INC.
3838 N. Sam Houston Pkwy., Ste. 550
Houston, TX 77032
346.570.2418
pgaengineers.com
TBP# FIRM #12493

DESIGNER PROJECT No.: 2021.001
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
1	ISSUED FOR BIDDING	03.22.22	PGA
1	ADDENDUM 4	07.22.22	PGA

DESIGN BY: PGA
DRAWN BY: AC
CHECKED BY: JG
ISSUE DATE: 07/22/2022
APPROVED BY: Approver
APPROVAL DATE: 07/22/2022

**DIRECTOR
of
HOUSTON AIRPORT SYSTEM**

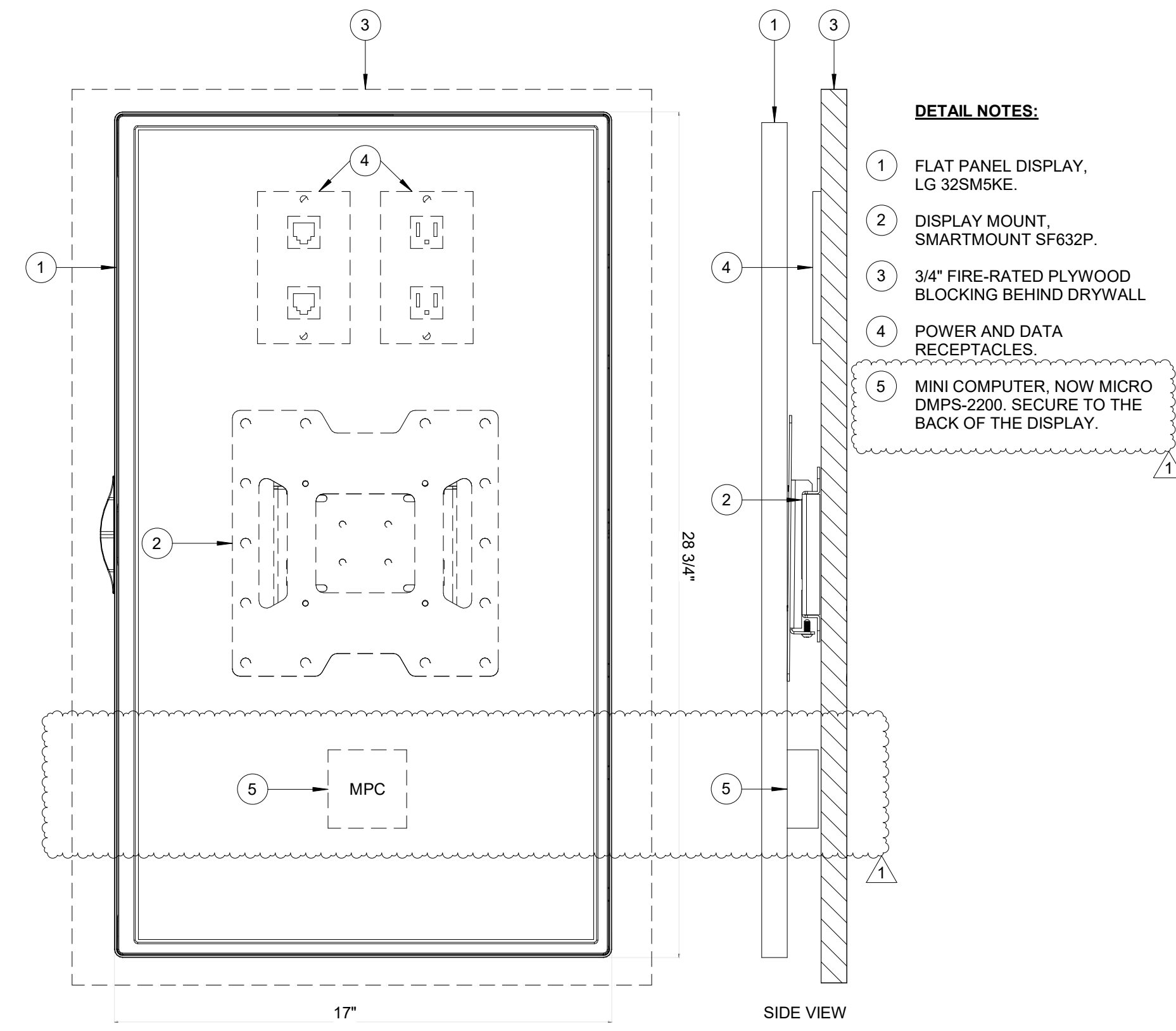
Review/Approval Category
IFB
ISSUED FOR BIDDING

STATE OF TEXAS
JOHN GRUENWALD
1000339
LICENSED PROFESSIONAL ENGINEER
03/22/2022

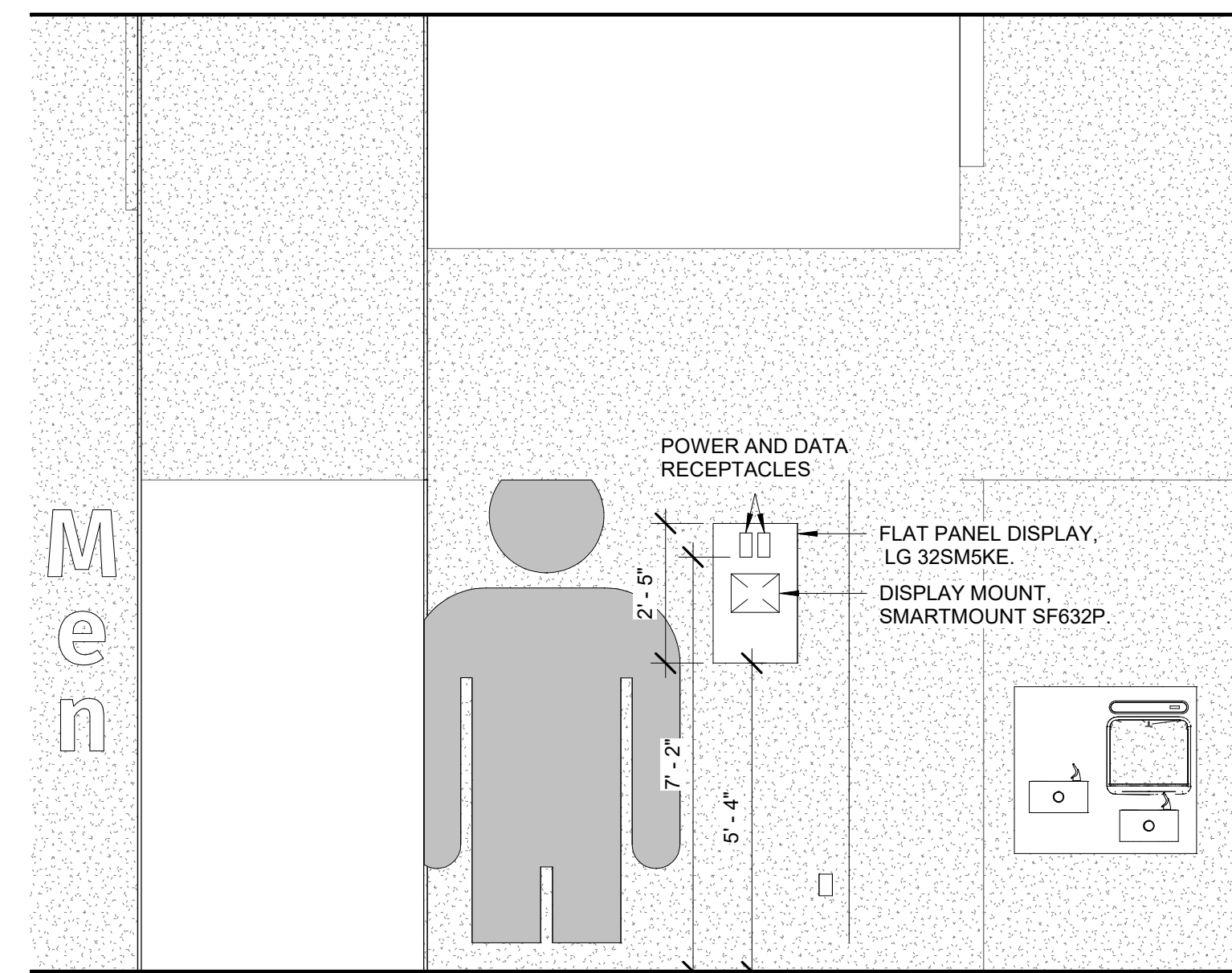
SHEET NAME:
TECHNOLOGY - ENLARGED PLAN - IDF S108.2

SHEET No. T-403 SCALE: As indicated

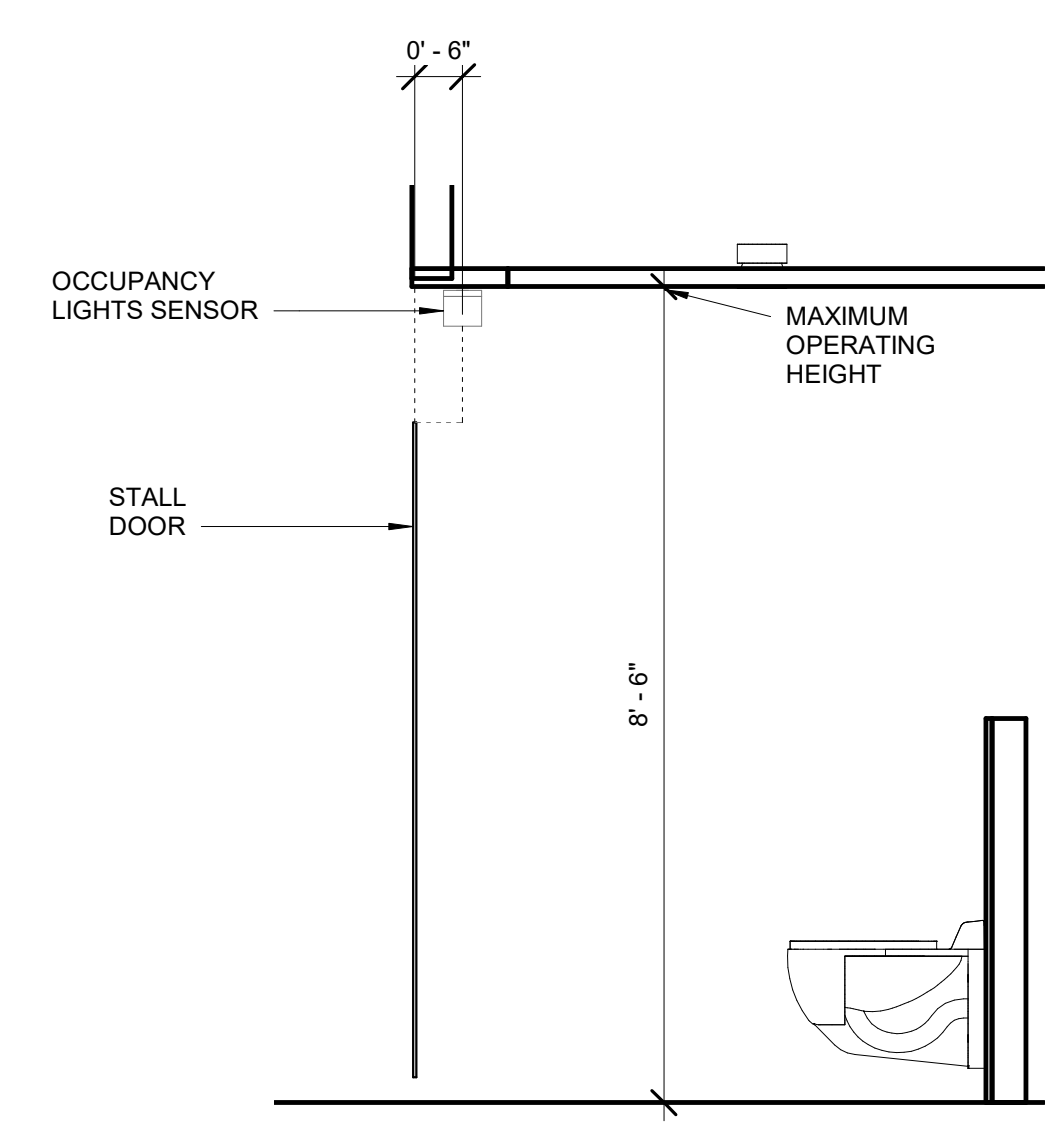
SHEET SIZE: 30"x42" ARCH E1



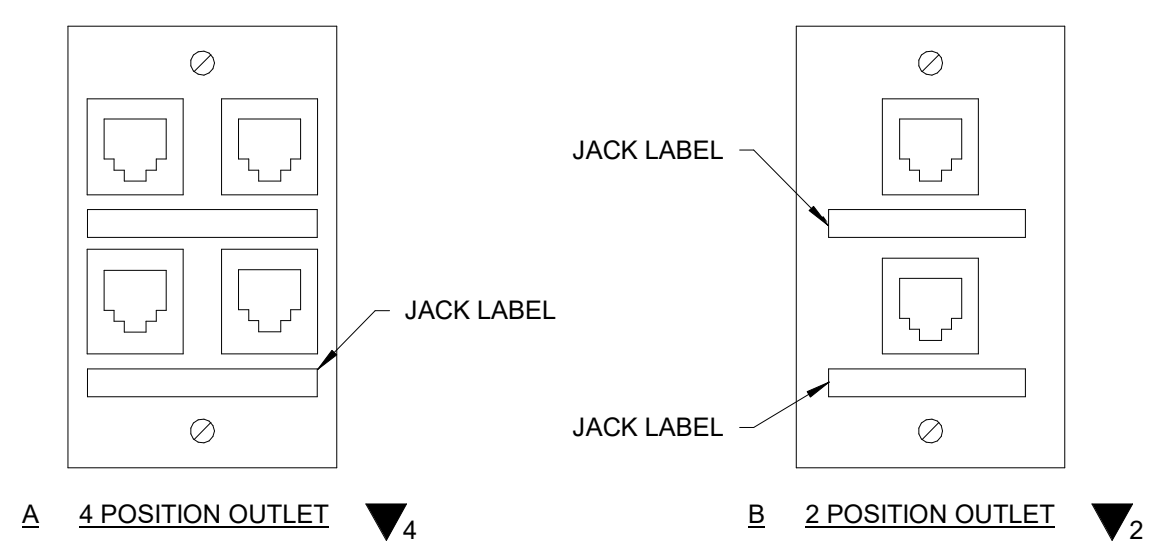
A3 FLAT PANEL DISPLAY WITH MOUNT
SCALE: NTS



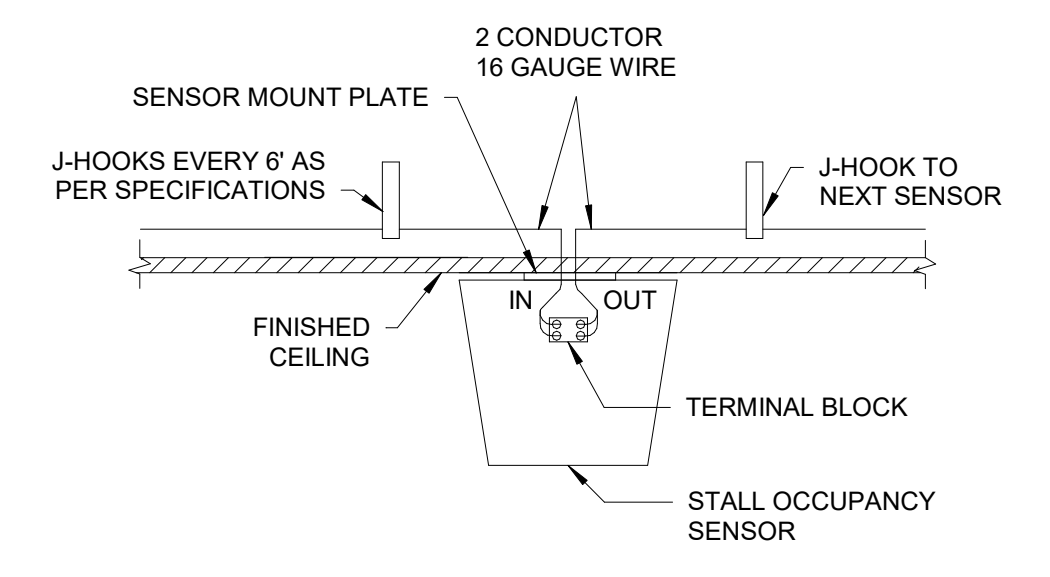
B3 DISPLAY ELEVATION
SCALE: 3/8" = 1'-0"



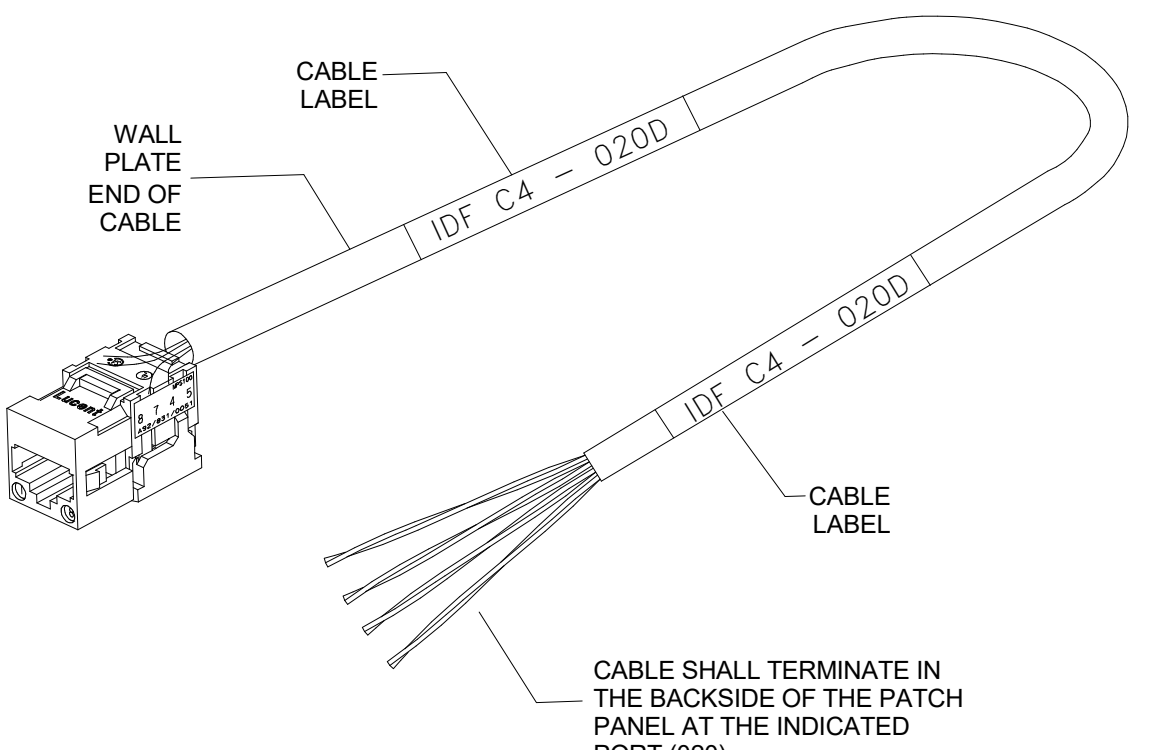
C3 SENSOR DIAGRAM
SCALE: 1/2" = 1'-0"



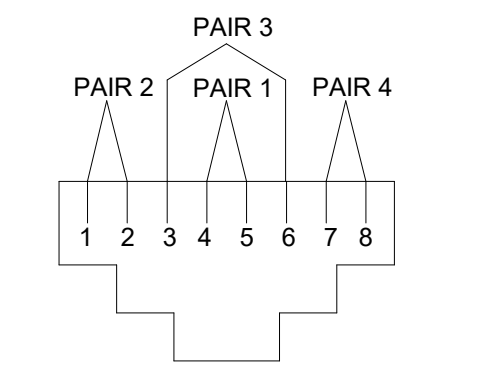
A2 COVERPLATE DETAIL
SCALE: NTS



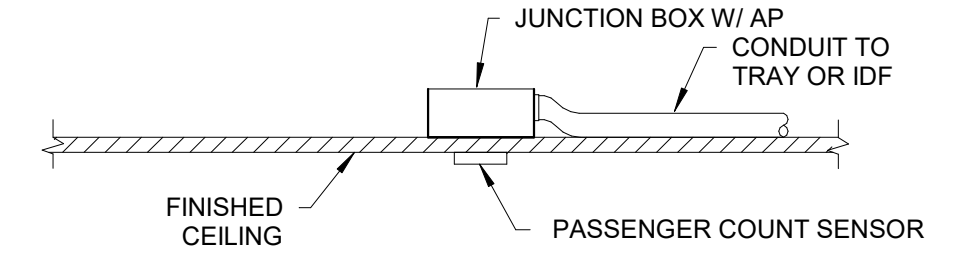
C2 STALL SENSOR INSTALLATION DETAIL
SCALE: NTS



A1 CABLE LABEL DETAIL
SCALE: NTS



B1 TERMINATION DETAIL
SCALE: NTS



C1 PASSENGER COUNT SENSOR INSTALLATION DETAIL
SCALE: NTS



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003
713.868.3121 www.rdlr.com



HENDERSON ROGERS
structural engineers

2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com



3838 N. Sam Houston Pkwy, Ste. 550
Houston, TX 77052
346.570.2418
pgaengineers.com
TBP# FIRM #12493

DESIGNER PROJECT No.: 2021.001
PROJECT STATUS: **IFB**

REVISIONS

No.	DESCRIPTION	DATE	BY
	ISSUED FOR BIDDING	03.22.22	PGA
1	ADDENDUM 4	07.22.22	PGA

DESIGN BY: PGA
DRAWN BY: AC
CHECKED BY: JG
ISSUE DATE: 07/22/2022
APPROVED BY: Approver
APPROVAL DATE: 07/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/Approval Category
IFB
ISSUED FOR BIDDING



SHEET NAME: TECHNOLOGY - EQUIPMENT DETAILS
SHEET No. T-500 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

TECHNOLOGY SCHEDULE				
DEVICE ID	LOCATION	MANUFACTURER	MODEL	COMMENTS
BTP.01	GATE 20-23	KONTAKT.IO	ANCHOR BEACON 2	
BTP.02	GATE 20-23	KONTAKT.IO	ANCHOR BEACON 2	
BTP.03	GATE 20-23	KONTAKT.IO	ANCHOR BEACON 2	
BTP.04	GATE 20-23	KONTAKT.IO	ANCHOR BEACON 2	
BTP.05	GATE 24-27	KONTAKT.IO	ANCHOR BEACON 2	
BTP.06	GATE 24-27	KONTAKT.IO	ANCHOR BEACON 2	
BTP.07	GATE 24-27	KONTAKT.IO	ANCHOR BEACON 2	
BTP.08	GATE 24-27	KONTAKT.IO	ANCHOR BEACON 2	
BTP.09	GATE 28-32	KONTAKT.IO	ANCHOR BEACON 2	
BTP.10	GATE 28-32	KONTAKT.IO	ANCHOR BEACON 2	
BTP.11	GATE 28-32	KONTAKT.IO	ANCHOR BEACON 2	
BTP.12	GATE 28-32	KONTAKT.IO	ANCHOR BEACON 2	
FDP.01	GATE 20-23	LG	32SM5KE	
FDP.02	GATE 20-23	LG	32SM5KE	
FDP.03	GATE 24-27	LG	32SM5KE	
FDP.04	GATE 24-27	LG	32SM5KE	
FDP.05	GATE 28-32	LG	32SM5KE	
FDP.06	GATE 28-32	LG	32SM5KE	
MPC.01	GATE 20-23	NOW MICRO	DMPS-2200	
MPC.02	GATE 20-23	NOW MICRO	DMPS-2200	
MPC.03	GATE 24-27	NOW MICRO	DMPS-2200	
MPC.04	GATE 24-27	NOW MICRO	DMPS-2200	
MPC.05	GATE 28-32	NOW MICRO	DMPS-2200	
MPC.06	GATE 28-32	NOW MICRO	DMPS-2200	
OSG.01	GATE 20-23	ZURN	ZGW-WRP-W1-ETH	
OSG.02	GATE 24-27	ZURN	ZGW-WRP-W1-ETH	
OSG.03	GATE 28-32	ZURN	ZGW-WRP-W1-ETH	
OSL.01	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.02	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.03	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.04	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.05	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.06	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.07	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.08	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.09	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.10	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.11	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.12	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.13	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.14	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.15	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.16	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.17	GATE 20-23	ZURN	Z-LIGHT-W1	
OSL.18	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.19	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.20	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.21	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.22	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.23	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.24	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.25	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.26	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.27	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.28	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.29	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.30	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.31	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.32	GATE 24-27	ZURN	Z-LIGHT-W1	
OSL.33	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.34	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.35	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.36	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.37	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.38	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.39	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.40	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.41	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.42	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.43	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.44	GATE 28-32	ZURN	Z-LIGHT-W1	
OSL.45	GATE 28-32	ZURN	Z-LIGHT-W1	
PCS.01	GATE 20-23	XOVIS	PC2-S	
PCS.02	GATE 20-23	XOVIS	PC2-S	
PCS.03	GATE 24-27	XOVIS	PC2-S	
PCS.04	GATE 24-27	XOVIS	PC2-S	
PCS.05	GATE 28-32	XOVIS	PC2-S	
PCS.06	GATE 28-32	XOVIS	PC2-S	
SP1.01	GATE 20-23	JBL	CONTROL 24CT	
SP1.02	GATE 20-23	JBL	CONTROL 24CT	
SP1.03	GATE 20-23	JBL	CONTROL 24CT	
SP1.04	GATE 20-23	JBL	CONTROL 24CT	
SP1.05	GATE 24-27	JBL	CONTROL 24CT	
SP1.06	GATE 24-27	JBL	CONTROL 24CT	
SP1.07	GATE 24-27	JBL	CONTROL 24CT	
SP1.08	GATE 24-27	JBL	CONTROL 24CT	
SP1.09	GATE 28-32	JBL	CONTROL 24CT	
SP1.10	GATE 28-32	JBL	CONTROL 24CT	
SP1.11	GATE 28-32	JBL	CONTROL 24CT	
SP1.12	GATE 28-32	JBL	CONTROL 24CT	
SP1.13	GATE 28-32	JBL	CONTROL 24CT	
TP1.01	GATE 20-23	SAMSUNG	GALAXY A7	
TP1.02	GATE 20-23	SAMSUNG	GALAXY A7	
TP1.03	GATE 24-27	SAMSUNG	GALAXY A7	
TP1.04	GATE 24-27	SAMSUNG	GALAXY A7	
TP1.05	GATE 28-32	SAMSUNG	GALAXY A7	
TP1.06	GATE 28-32	SAMSUNG	GALAXY A7	

A1 EQUIPMENT SCHEDULE
SCALE: 1/16" = 1'-0"

PLOT DATE: DOA DWG FILE: OLD DOA No.: PLOT DATE: HAS FILE: FILE PATH: BIM 360/1429 06 Hobby Airport Restroom Renovations/2021.001 - RDLR (HOU RR RENO) - PGA.rvt



7800 Airport Blvd
Houston, TX 77061

**HOU RESTROOM RENOVATIONS
PHASE 2**

C.I.P. No. PN209A A.I.P. No.
C.O.H. No. D.O.A. No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003 713.868.3121 www.rdlr.com



HENDERSON ROGERS
structural engineers
2603 Augusta, Suite 800
Houston, Texas 77057
713.430.5800 713.430.5888 fax
www.hendersonrogers.com



DESIGNER PROJECT No.: 2021.001
PROJECT STATUS: **IFB**

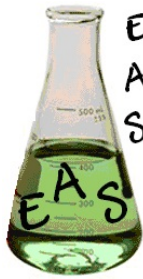
REVISIONS			
No.	DESCRIPTION	DATE	BY
	ISSUED FOR BIDDING	03.22.22	PGA
1	ADDENDUM 4	07.22.22	PGA

DESIGN BY: PGA
DRAWN BY: AC
CHECKED BY: JG
ISSUE DATE: 07/22/2022
APPROVED BY: Approver
APPROVAL DATE: 07/22/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

<p>Review/Approval Category</p> <p>IFB</p> <p>ISSUED FOR BIDDING</p>	
---	--

SHEET NAME: TECHNOLOGY - EQUIPMENT SCHEDULES
SHEET No. T-600 SCALE: 1/16" = 1'-0"
SHEET SIZE: 30"x42" ARCH E1



**Environmental
Analytical
Services, LLC**

**13201 Northwest Freeway, Suite 520
Houston, Texas 77040
phone 713-343-4017 | fax 713-934-9942
www.easlabs.com | facebook.com/easlabs | info@easlabs.com**

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.
12520 A1 Westheimer Rd.
#246
Houston, TX 77077
Phone: 713-444-6442
E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport
7800 Airport Blvd, Hou, Tx
220523026
EAS Job: 22052701
Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
01 22052701.01	A	White Joint Compound Homogeneous	NO	None Detected	Cellulose 2%	Binders / Paint 98%
01 22052701.01	B	Brown/White Fibrous Drywall Non-Homogeneous	NO	None Detected	Cellulose 20%	Binders 80%
02 22052701.02	A	White Joint Compound Homogeneous	NO	None Detected	Cellulose 2%	Binders / Paint 98%
02 22052701.02	B	Brown/White Fibrous Drywall Non-Homogeneous	NO	None Detected	Cellulose 20%	Binders 80%
03 22052701.03	A	White Joint Compound Homogeneous	NO	None Detected	Cellulose 2%	Binders / Paint 98%

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

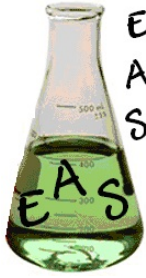
These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By:

Terry Brindley
Terry Brindley

Approved Signatory:

Terry Brindley
Terry Brindley



**Environmental
Analytical
Services, LLC**

13201 Northwest Freeway, Suite 520

Houston, Texas 77040

phone 713-343-4017 | fax 713-934-9942

www.easlabs.com | facebook.com/easlabs | info@easlabs.com

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.

12520 A1 Westheimer Rd.

#246

Houston, TX 77077

Phone: 713-444-6442

E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport

7800 Airport Blvd, Hou, Tx

220523026

EAS Job: 22052701

Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
03 22052701.03	B	Brown/White Fibrous Drywall Non-Homogeneous	NO	None Detected	Cellulose 20%	Binders 80%
04 22052701.04	A	White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
05 22052701.05	A	White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
06 22052701.06	A	White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
07 22052701.07	A	Tan Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
08 22052701.08	A	Tan Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By:

Terry Brindley
Terry Brindley

Approved Signatory:

Terry Brindley
Terry Brindley



**Environmental
Analytical
Services, LLC**

13201 Northwest Freeway, Suite 520

Houston, Texas 77040

phone 713-343-4017 | fax 713-934-9942

www.easlabs.com | facebook.com/easlabs | info@easlabs.com

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.

12520 A1 Westheimer Rd.

#246

Houston, TX 77077

Phone: 713-444-6442

E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport

7800 Airport Blvd, Hou, Tx

220523026

EAS Job: 22052701

Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
09 22052701.09	A	Tan Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
10 22052701.10	A	Tan/White Fibrous Ceiling Tile Non-Homogeneous	NO	None Detected	Cellulose 40% Fiberglass 40%	Binders / Paint 20%
11 22052701.11	A	Tan/White Fibrous Ceiling Tile Non-Homogeneous	NO	None Detected	Cellulose 40% Fiberglass 40%	Binders / Paint 20%
12 22052701.12	A	Tan/White Fibrous Ceiling Tile Non-Homogeneous	NO	None Detected	Cellulose 40% Fiberglass 40%	Binders / Paint 20%
13 22052701.13	A	Gray/White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

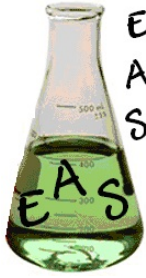
These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By:

Terry Brindley
Terry Brindley

Approved Signatory:

Terry Brindley
Terry Brindley



**Environmental
Analytical
Services, LLC**

13201 Northwest Freeway, Suite 520

Houston, Texas 77040

phone 713-343-4017 | fax 713-934-9942

www.easlabs.com | facebook.com/easlabs | info@easlabs.com

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.

12520 A1 Westheimer Rd.

#246

Houston, TX 77077

Phone: 713-444-6442

E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport

7800 Airport Blvd, Hou, Tx

220523026

EAS Job: 22052701

Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
14 22052701.14	A	Gray/White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
15 22052701.15	A	Gray/White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
16 22052701.16	A	Gray Mastic Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%
17 22052701.17	A	Gray Mastic Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%
18 22052701.18	A	Gray Mastic Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%
19 22052701.19	A	Silver/White Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Cellulose 45% Fiberglass 5%	Other Non-Fibrous 50%

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

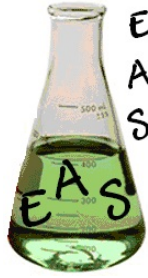
These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By:

Terry Brindley
Terry Brindley

Approved Signatory:

Terry Brindley
Terry Brindley



**Environmental
Analytical
Services, LLC**

13201 Northwest Freeway, Suite 520

Houston, Texas 77040

phone 713-343-4017 | fax 713-934-9942

www.easlabs.com | facebook.com/easlabs | info@easlabs.com

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.

12520 A1 Westheimer Rd.

#246

Houston, TX 77077

Phone: 713-444-6442

E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport

7800 Airport Blvd, Hou, Tx

220523026

EAS Job: 22052701

Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
19 22052701.19	B	Yellow Fibrous Insulation Homogeneous	NO	None Detected	Fiberglass 100%	
20 22052701.20	A	Silver/White Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Cellulose 45% Fiberglass 5%	Other Non-Fibrous 50%
20 22052701.20	B	Yellow Fibrous Insulation Homogeneous	NO	None Detected	Fiberglass 100%	
21 22052701.21	A	Silver/White Fibrous Mastic Wrapping w/ Foil Non-Homogeneous	NO	None Detected	Cellulose 45% Fiberglass 5%	Other Non-Fibrous 50%
21 22052701.21	B	Yellow Fibrous Insulation Homogeneous	NO	None Detected	Fiberglass 100%	

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

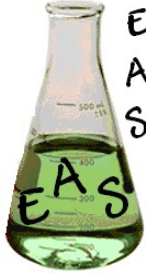
These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By:

Terry Brindley
Terry Brindley

Approved Signatory:

Terry Brindley
Terry Brindley



**Environmental
Analytical
Services, LLC**

**13201 Northwest Freeway, Suite 520
Houston, Texas 77040
phone 713-343-4017 | fax 713-934-9942
www.easlabs.com | facebook.com/easlabs | info@easlabs.com**

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.
12520 A1 Westheimer Rd.
#246
Houston, TX 77077
Phone: 713-444-6442
E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport
7800 Airport Blvd, Hou, Tx
220523026
EAS Job: 22052701
Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
22 22052701.22	A	White Caulk Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%
23 22052701.23	A	White Caulk Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%
24 22052701.24	A	White Caulk Homogeneous	NO	None Detected	Cellulose 2%	Other Non-Fibrous 98%
25 22052701.25	A	Yellow Carpet Mastic Homogeneous	NO	None Detected	Textiles 2%	Adhesive 98%
26 22052701.26	A	Yellow Carpet Mastic Homogeneous	NO	None Detected	Textiles 2%	Adhesive 98%
27 22052701.27	A	Yellow Carpet Mastic Homogeneous	NO	None Detected	Textiles 2%	Adhesive 98%

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

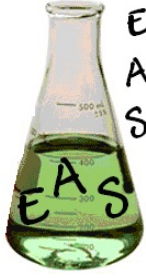
Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By: *Terry Brindley*
Terry Brindley

Approved Signatory: *Terry Brindley*
Terry Brindley



**Environmental
Analytical
Services, LLC**

13201 Northwest Freeway, Suite 520

Houston, Texas 77040

phone 713-343-4017 | fax 713-934-9942

www.easlabs.com | facebook.com/easlabs | info@easlabs.com

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.

12520 A1 Westheimer Rd.

#246

Houston, TX 77077

Phone: 713-444-6442

E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport

7800 Airport Blvd, Hou, Tx

220523026

EAS Job: 22052701

Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
28 22052701.28	A	Black Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
29 22052701.29	A	Black Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
30 22052701.30	A	Black Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
31 22052701.31	A	White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
32 22052701.32	A	White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%
33 22052701.33	A	White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By:

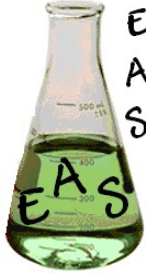
Terry Brindley

Terry Brindley

Approved Signatory:

Terry Brindley

Terry Brindley



**Environmental
Analytical
Services, LLC**

**13201 Northwest Freeway, Suite 520
Houston, Texas 77040
phone 713-343-4017 | fax 713-934-9942**

www.easlabs.com | facebook.com/easlabs | info@easlabs.com

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.
12520 A1 Westheimer Rd.
#246
Houston, TX 77077
Phone: 713-444-6442
E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport
7800 Airport Blvd, Hou, Tx
220523026
EAS Job: 22052701
Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
34 22052701.34	A	Gray Granular Cementitious Material Homogeneous	NO	None Detected	Fiberglass 5%	Sand / Aggregates 55% Binders 40%
35 22052701.35	A	Gray Granular Cementitious Material Homogeneous	NO	None Detected	Fiberglass 5%	Sand / Aggregates 55% Binders 40%
36 22052701.36	A	Gray Granular Cementitious Material Homogeneous	NO	None Detected	Fiberglass 5%	Sand / Aggregates 55% Binders 40%
37 22052701.37	A	Gray Granular Ceramic Tile Homogeneous	NO	None Detected	Fiberglass 5%	Sand / Aggregates 55% Binders 40%
38 22052701.38	A	White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

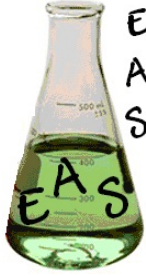
These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By:

Terry Brindley
Terry Brindley

Approved Signatory:

Terry Brindley
Terry Brindley



**Environmental
Analytical
Services, LLC**

**13201 Northwest Freeway, Suite 520
Houston, Texas 77040
phone 713-343-4017 | fax 713-934-9942
www.easlabs.com | facebook.com/easlabs | info@easlabs.com**

**Test: EPA 600/R-93/116
Polarized Light Microscopy**

Client Information:

Terra Nova Consulting, Inc.
12520 A1 Westheimer Rd.
#246
Houston, TX 77077
Phone: 713-444-6442
E-Mail: lina.jazi@ternov.com

Project:

Hobby Airport
7800 Airport Blvd, Hou, Tx
220523026
EAS Job: 22052701
Attn: Lina Jazi

Date Analyzed: 05/31/2022 11:33 AM

Date Received: 05/26/2022 03:40 PM

TAT Requested: 3 Days

Microscope: PLM Olympus BH-2,

Sample # Lab ID #	Layer	Sample Description	Asbestos Detected (Yes/No)	Asbestos Mineral Percent	Non-Asbestos Fibers	Non-Fibrous Material
39 22052701.39	A	White Ceramic Tile Homogeneous	NO	None Detected		Other Non-Fibrous 100%

NVLAP Lab Code: 200784-0

TDSHS License No. 300373

LDEQ LELAP Certificate No: 04161, Agency Interest No. 149571

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. This test report relates only to the items tested. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This report may not be reproduced except in full without permission from Environmental Analytical Services.

These results are submitted pursuant to EAS' current terms of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. Percent ranges reported are estimates and not absolute percent range values.

Analyzed By:

Terry Brindley
Terry Brindley

Approved Signatory:

Terry Brindley
Terry Brindley



9950 Westpark Drive, Suite 446
 Houston, Texas 77063
 Tel: (713) 482-8787
 Fax: (832) 202-2524
 E-Mail: info@ternov.com

22052701

BULK MATERIAL SAMPLE COLLECTION FORM - ASBESTOS

Project No.	220523026	Date:	5/26/22
Project Name:	Hobby Airport Restrooms	Type of Analysis:	PLM
Location:	7800 Airport Blvd.	Inspector:	Francis Gonzalez
Client:	COH -	DSHS License No.:	603002

H.A.=Homogenous Area; Condition: G=Good, D=Damaged, S=Significantly Damaged; Amount: SF=Square Feet, LF=Linear Feet

Sample No.	Sample Location	Sample Description	Condition (G, D, S)	Friable (Y/N)	H.A. Location	Approx. SF/LF
01	Women's RR 32	WHITE STREETLOOK CERAMIC	G	Y	CERAMIC @ Women 32	40'x32'
02		↓ ↓	↓	↓	↓ ↓	↓
03	Men's RR @ 31	1.5' x 1.5' CRANE CERAMIC		N	Men + women's RR	21'x30'
04		↓ ↓	↓	↓	↓ ↓	↓
05		TILE				
06	Men's RR @ 31	12" x 12" TAN CERAMIC Floor				40'x32'
07		↓ ↓	↓	↓	↓ ↓	↓
08	Men's RR @ 31	2' x 2' WHITE CEILING TILE		Y		40'x32'x4'
09		↓ ↓	↓	↓	↓ ↓	↓
10						
11	Men's RR @ 31	12" x 12" GRAY/WHITE CERAMIC		N		10'x12'
12		↓ ↓	↓	↓	↓ ↓	↓
13		WAX TILE near sink				
14	Men's RR @ 31	GRAY HVAC MASTIC ON		Y	ABOVE CEILING	10LF
15		↓ ↓	↓	↓	↓ ↓	↓
16	Women's RR	ROUND METAL DUCT ABOVE CEILING				



9950 Westpark Drive, Suite 446
 Houston, Texas 77063
 Tel: (713) 482-8787
 Fax: (832) 202-2524
 E-Mail: info@ternov.com

22052701

BULK MATERIAL SAMPLE COLLECTION FORM - ASBESTOS

Project No.	220523026	Date:	5/26/22
Project Name:	Hobby Airport Restrooms	Type of Analysis:	PLM
Location:	7800 Airport Blvd.	Inspector:	Francis Gonzalez
Client:	CoH	DSHS License No.:	603002

H.A.=Homogenous Area; Condition: G=Good, D=Damaged, S=Significantly Damaged; Amount: SF=Square Feet, LF=Linear Feet

Sample No.	Sample Location	Sample Description	Condition (G, D, S)	Friable (Y/N)	H.A. Location	Approx. SF/LF
17	Women's RR @ 32	Gray HVAC Mastic on	G	Y	Men + Women's RR	1 LF
18	Men's RR @ 31	↓ Round Duct	↓	↓	↓	↓
19	Women's RR @ 32	White Square HVAC Duct	↓	↓	↓	20 LF
20		↓ Mastic ↓	↓	↓	↓	↓
21						
22	Women's RR @ 32	White mirror/sink caulking	G	N	Men + Women's RR	10 LF
23		↓	↓	↓	↓	↓
24	Men's RR @ 31		↓	↓	↓	↓
25	Women's RR @ 32	Yellow Wall Carpet Adhesive	G	N	↓	20'x15'
26		↓	↓	↓	↓	↓
27	Men's RR @ 31		↓	↓	↓	↓
28	Men's RR @ 31	Black Ceramic Tile	G/D	N	Men's RR	3in x 3in
29		↓	↓	↓	↓	↓
30						



9950 Westpark Drive, Suite 446
 Houston, Texas 77063
 Tel: (713) 482-8787
 Fax: (832) 202-2524
 E-Mail: info@ternov.com

22052701

BULK MATERIAL SAMPLE COLLECTION FORM - ASBESTOS

Project No.	220523026	Date:	5/26/22
Project Name:	Hobby Airport RESTROOMS	Type of Analysis:	PLM
Location:	7800 Airport Blvd.	Inspector:	FRANCIS GONZALEZ
Client:	COH	DSHS License No.:	603002

H.A.=Homogenous Area; Condition: G=Good, D=Damaged, S=Significantly Damaged; Amount: SF=Square Feet, LF=Linear Feet

Sample No.	Sample Location	Sample Description	Condition (G, D, S)	Friable (Y/N)	H.A. Location	Approx. SF/LF
31	Mens RR @ gate 35	1x1 Tan Ceramic Floor	G	N	Mens & Womens RR	36x21
32	↓	↓	↓	↓	↓	1
33	↓	↓	↓	↓	↓	↓
33	Womens RR 36					36x21
34	Mens RR 35	Grey Wall board cement	G	N	Mens & Womens RR	36x21x2
35	↓	↓	↓	↓	↓	↓
36	Womens RR 36					50sf
37	Supply closet at RR 35 & 36	6in x 6in white wall tile	D	N	↓	↓
38	↓	↓	↓	↓	↓	↓
39	↓	↓				