AREA MAP - N.T.S.

MAYOR

SYLVESTER TURNER

CITY COUNCIL MEMBERS

AMY PECK - DISTRICT A

TARSHA JACKSON - DISTRICT B

ABBIE KAMIN - DISTRICT C

CAROLYN EVANS-SHABAZZ - DISTRICT D

DAVID MARTIN - DISTRICT E

TIFFANY D. THOMAS - DISTRICT F

MARY NAN HUFFMAN - DISTRICT G

KARLA CISNEROS - DISTRICT H



CONTROLLER

CHRIS B. BROWN

CITY COUNCIL MEMBERS

ROBERT GALLEGOS - DISTRICT I

EDWARD POLLARD - DISTRICT J

MARTHA CASTEX-TATUM - DISTRICT K

MIKE KNOX - AT LARGE POSITION 1

DAVID ROBINSON - AT LARGE POSITION 2

MICHAEL KUBOSH - AT LARGE POSITION 3

LETITIA PLUMMER - AT LARGE POSITION 4

SALLIE ALCORN - AT LARGE POSITION 5

HOU RESTROOM RENOVATIONS PHASE 2

HOUSTON HOBBY AIRPORT

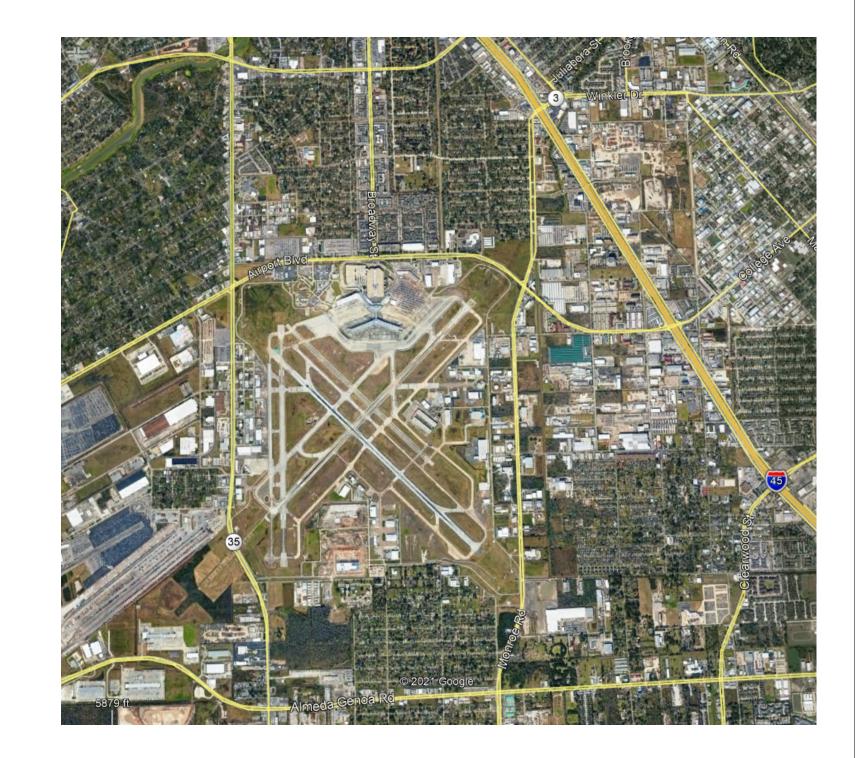
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PREPARED BY

RDLR

HOUSTON AIRPORT SYSTEM

MARIO C. DIAZ - DIRECTOR



VICINITY MAP - N.T.S.

Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

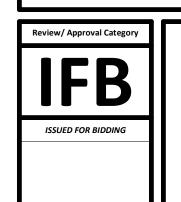
RDLR Architects

ARCHITECTURE PLANNING INTERIORS

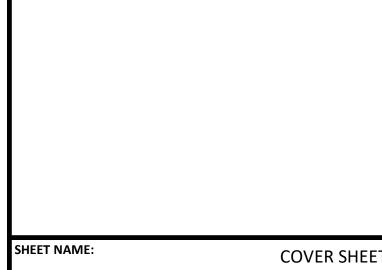
1245 W 18th St. Houston, TX 77008

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REVISIONS







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7800 Airport Blvd Houston, TX 77061

> **HOU RESTROOM RENOVATIONS** PHASE 2

> > PN209A A.I.P. No.

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DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

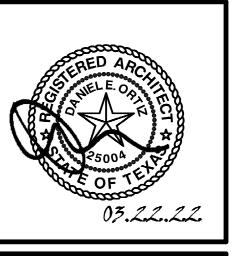
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No. DESCRIPTION DATE BY **Issued For Bidding** 03.22.22 HB

KATHERINE DOMINGUE **DESIGN BY: HECTOR BERRIO** DRAWN BY: DANIEL ORTIZ **CHECKED BY: ISSUE DATE:** 03.22.202 DANIEL ORTIZ **APPROVED BY:**

> **DIRECTOR HOUSTON AIRPORT SYSTEM**

IFB ISSUED FOR BIDDING



03.22.2022

SHEET NAME:
SYMBOLS LEGEND, ABBREVIATIONS, AND SHEET INDEX As indicated

- CONTRACTOR AT NO INCREASE IN COST TO THE STATE. THE WORK PREFORMED UNDER THIS CONTRACT SHALL CONSIST OF FURNISHING ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE INSTALLATION OF ALL BUILDING SYSTEMS, BUILDING COMPONENTS, SPECIFIED EQUIPMENT, AND MATERIALS / FINISHES IDENTIFIED IN THE DOCUMENTS. SUCH WORK SHALL INCLUDE ALL SUPPORTING MATERIALS AND COMPONENTS NECESSARY TO COMPLETE THE INSTALLATION FOR A FULLY OPERATIONAL, FUNCTIONAL AND STRUCTURALLY ANCHORED SYSTEM, CONSISTENT WITH STANDARD PRACTICES, MANUFACTURER'S RECOMMENDATIONS, GOVERNING CODES, AND TO THE ACCEPTANCE OF THE OWNER AND/OR AUTHORIZED REPRESENTATIVE.
- THE CONTRACT DOCUMENTS ARE COMPLIMENTARY, AND WHAT IS CALLED FOR IN ONE PART SHALL BE AS BINDING AS IF CALLED FOR BY ALL. THE INTENT OF THE DOCUMENTS IS TO INCLUDE ALL WORK CONSISTENT THEREWITH AND REASONABLY INFERABLE THEREFROM AS BEING NECESSARY FOR THE COMPLETION OF THE CONTRACT. MATERIALS OR WORK DESCRIBED IN WORDS THAT INDICATE PROPER EXECUTION AND WELL KNOWN TECHNICAL OR TRADE DESIGNATION SHALL BE HELD TO REFER TO RECOGNIZED STANDARDS.
- ARCHITECT DOES NOT WARRANT THE ACCURACY OF SCALED DIMENSIONS. DIMENSIONS INDICATED BY FIGURES OR NUMERALS SHALL GOVERN. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- OMISSIONS FROM THE PLANS AND SPECIFICATIONS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF FURNISHING, MAKING, OR INSTALLING ALL ITEMS REQUIRED BY LAW OR USUALLY FURNISHED. MADE, OR INSTALLED IN ACCORDANCE WITH RECOGNIZED STANDARDS, FOR A PROJECT OF THE SCOPE AND CHARACTER INDICATED ON THE PLANS AND SPECIFICATIONS.
- THE PLANS SHOW CONDITIONS AS THEY ARE SUPPOSED OR BELIEVED TO EXIST, BUT IT IS NOT INTENDED OR INFERRED THAT THE CONDITIONS AS SHOWN CONSTITUTE A REPRESENTATION OR WARRANTY EXPRESSED OR IMPLIED, THAT SUCH CONDITIONS ACTUALLY EXIST
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK COMPLIES WITH THE CONTRACT DOCUMENTS. UPON DISCOVERY, ALL DEFECTIVE OR NONCOMPLIANT WORK SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR. FAILURE OF THE ARCHITECT TO IDENTIFY NONCONFORMING WORK SHALL NOT CONSTITUTE ACCEPTANCE OR IMPLIED ACCEPTANCE OF
- ANY DELAYS OR IMPACTS ARISING ON THE WORK AS A RESULT OF CONSTRUCTION, FABRICATION OR DELIVERY OF NONCONFORMING WORK OR MATERIALS SHALL BE THE CONTRACTOR'S SOLE EXPENSE, WITHOUT REIMBURSEMENT FOR EXTENDED OVERHEAD.
- THE CONTRACT DOCUMENTS INDICATE THE SCOPE OF THE PROJECT IN TERMS OF THE ARCHITECTURAL DESIGN CONCEPT. THE DIMENSIONS OF THE MAJOR ARCHITECTURAL ELEMENTS, AND THE MAJOR DESIGN OF THE STRUCTURAL AND ELECTRICAL SYSTEMS, BASED ON THE SCOPE DESCRIBED HEREIN. PROVIDE ALL ITEMS, SYSTEMS, PRODUCTS AND LABOR REQUIRED OR INFERRED FOR THE PROPER EXECUTION AND COMPLETE INSTALLATION OF THE SPECIFIED PRODUCT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND THEIR SERVICE CONNECTIONS WITH THE PROPER UTILITY COMPANIES
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF THE CONSTRUCTION ON THE
- DETAILS NOT SHOWN ARE SIMILAR IN NATURE TO THOSE DETAILED, WHERE CONDITIONS ARE SIMILAR. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CAN NOT BE DETERMINED. CONSULT ARCHITECT BEFORE PROCEEDING WITH THE WORK. TYPICAL DETAILS OCCUR AT ALL SIMILAR CONDITIONS, WHETHER REFERENCED OR
- WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS BY VARIOUS TRADES, THE CONTRACTOR SHALL CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACINGS, BACK-UP PLATES, AND SUPPORTING BRACKETS REQUIRED FOR THE BEST POSSIBLE INSTALLATION OF ALL BUILDING COMPONENTS AND EQUIPMENT.
- WHEN DISCREPANCIES EXIST WITHIN THE DRAWINGS, AND BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE COSTLIER CONDITION SHALL APPLY.
- THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, PRIOR TO STARTING THE WORK, A COMPREHENSIVE LAYOUT INDICATING DIMENSIONAL CRITERIA FOR ALL VISIBLE BUILDING ELECTRICAL, SECURITY, LIFE SAFETY, CONTROLS, AND OTHER EQUIPMENT.
- PROPRIETARY PRODUCTS AND MATERIALS IDENTIFIED IN THE DRAWINGS SHALL BE INTERPRETED AS THE BASIS OF DESIGN AND SHALL TAKE PRECEDENCE OVER OTHER PRODUCTS AND COMPONENTS INDICATED IN THE SPECIFICATIONS. ALTERNATE PRODUCTS INDICATED WITHIN THE SPECIFICATIONS MAY BE USED IF EQUAL TO THE BASIS OF DESIGN. ALTERNATE PRODUCTS SHALL MATCH THE PERFORMANCE, QUALITY, AND PROFILE OF THE "BASIS OF DESIGN" PRODUCT, CONTRACTOR SHALL CONSULT WITH ARCHITECT BEFORE PROCEEDING WITH AN ALTERNATE PRODUCT TO WHAT IS SPECIFICALLY IDENTIFIED IN THE DRAWINGS. BASIS OF DESIGN PRODUCTS INCLUDE BUT ARE NOT LIMITED TO ITEMS AS SCHEDULED ON ELEVATIONS & FINISH SCHEDULE.
- SCAN EXISTING SLAB PRIOR TO DRILLING, CUTTING, CORING OR SHOOTING INTO THE SLAB, PROVIDE GPR OR BETTER X-RAY SCANNING PER HAS STANDARDS. SCANS TO BE SUBMITTED BEFORE WORK CAN BE PERFORMED. SEAL SLAB PENETRATIONS TO MAINTAIN FIRE RATING.
- THE CONTRACTOR IS TO PROVIDE TEMPORARY BARRIERS, DUST CONTROL, NOISE, TEMPORARY SIGNAGE WHILE THE FACILITY IS IN OPERARION. THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR THE WORK OF EACH PHASING AS SHOWN IN DRAWINGS. THE CONTRACTOR SHALL COORDINATE WITH OWNER THE SPECIFIC HOURS FOR THE WORK. ALL WORK IS TO BE PERFORMED DURING NIGHT. CONTRACTOR SHALL COORDINATE AND GET APPROVAL FROM OWNER FOR WORK HOURS PRIOR THE START OF THE WORK IN EACH OF THE CONSTRUCTION PHASES.
- THE CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL OF ALL LAY-DOWN & STORAGE AREAS PRIOR

ARCHITECTURAL SYSTEMS AND FINISHES

- 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 ANY ACCEPTABLE ALTERNATE PAINT MANUFACTURER THAT CAN MATCH THE SPECIFIED COLOR.
- PROVIDE SHOP DRAWINGS FOR ARCHITECTURAL SYSTEMS & SIGNAGE, INCLUDING BUT NOT LIMITED TO WOOD PLATFORM AND PRECAST TERRAZZO PLANTER. 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 MOCKUP OF WOOD FINISH PLATFORM AND SIGN WALL TO INCLUDE EXPOSED END CONDITIONS AND RETURNING EDGE CONDITIONS.
- WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED MATERIAL. PLATFORM WOOD FRAMING SHALL BE FIRE RETARDANT TREATED.
- INTERIOR STUD WALL FRAMING DESIGN IS INDICATED ON THE PARTITION SCHEDULE. SPECIFIED GAUGES ARE MINIMUMS TO BE UTILIZED FOR TYPICAL APPLICATIONS AND CONDITIONS, CONTRACTOR SHALL PROVIDE ADDITIONAL BRACING AT SPECIFIC LOCATIONS WHERE THE SPECIFIED OR DETAILED STUD APPLICATION WILL NOT MEET THE MINIMUM DESIGN OR DEFLECTION CRITERIA.
- NON-LOAD BEARING INTERIOR STUDS SUBJECT TO LOCALIZED STRUCTURAL LOADS FROM OTHER BUILDING SYSTEMS OR COMPONENTS, INCLUDING BUT NOT LIMITED TO, ANCHORAGE REQUIREMENTS FOR DOORS, WINDOWS, STOREFRONTS, CURTAINWALLS, CABINETS, BUILT-IN FURNITURE, ETC. SHALL BE DESIGNED AND ENGINEERED BY THE CONTRACTOR, IF SUCH DESIGN IS NOT SPECIFICALLY INDICATED IN THE DOCUMENTS.
- INTERIOR PARTITIONS AND WALLS MORE THAN 6 FEET IN HEIGHT, INCLUDING THEIR FINISH MATERIALS SHALL HAVE ADEQUATE STRENGTH TO RESIST LOADS THEY ARE SUBJECTED TO BUT NOT LESS THAN 5 PSF. DEFLECTION LIMITS OF INTERIOR PARTITIONS AND WALLS (IBC 2012 TABLE 1604.3): 360 FOR WALLS WITH STUCCO AND PLASTER FINISHES 240 FOR OTHER BRITTLE FINISHES 120 WITH FLEXIBLE FINISHES
- MISCELLANEOUS STUD FRAMING FOR SOFFITS AND OTHER ARCHITECTURAL ELEMENTS ARE INDICATED FOR GENERAL DESIGN INTENT AND PROFILE ONLY. CONTRACTOR SHALL PROVIDE ADDITIONAL BRACING AND FRAMING AS NECESSARY TO MEET THE DESIGN AND DEFLECTION CRITERIA.
- INTERIOR WALL, SOFFIT, AND CEILING FRAMING SHALL MEET A MINIMUM OF 5 PSF WIND LOAD AND L/240 DEFLECTION DESIGN CRITERIA. INTERIOR ELEVATOR OR MECHANICAL SHAFT FRAMING SHALL MEET A MINIMUM OF 10 PSF WIND LOAD AND L/240 DEFLECTION DESIGN CRITERIA. EXTERIOR OR STRUCTURAL FRAMING SHALL MEET SPECIFIC DESIGN CRITERIA SPECIFIED ELSEWHERE IN THE DOCUMENTS.
- GYP, BOARD CONTROL JOINTS ARE INDICATED FOR GENERAL DESIGN INTENT ONLY, CONTRACTOR IS RESPONSIBLE FOR INSTALLING CONTROL JOINTS TO COMPLY W/ ASTM C840. ALL CONTROL JOINT LOCATIONS ARE TO BE VERIFIED IN THE FIELD WITH THE OWNER OR APPROVED REPRESENTATIVE PRIOR TO INSTALLATION.
- SEALANT JOINTS DESIGNED AS REVEALS ARE INDICATED GRAPHICALLY AS RECESSED, AND MAY ALSO BE NOTED AS "RECESSED". MAINTAIN A CONSISTENT BACK OF REVEAL DEPTH.

ARCHITECTURALLY EXPOSED STEEL

ALL EXTERIOR EXPOSED STRUCTURAL STEEL AND MISCELLANEOUS STEEL COMPONENTS INCLUDING ANGLES, PLATES, ANCHORS, AND FASTENERS SHALL BE PAINTED WITH A HIGH-PERFORMANCE COATING, COLOR AS INDICATED IN THE DOCUMENTS.

ALL EXPOSED STEEL RAILINGS SHALL BE PAINTED WITH A

- HIGH-PERFORMANCE COATING. EXCEPT FOR STAINLESS ALL EXPOSED TUBE OR PIPE PROFILES SHALL HAVE
- CLOSURE PLATES ON ANY EXPOSED ENDS. SUCH PLATES SHALL BE SEAL WELDED TO PREVENT MIGRATION OF WATER AND INTERNAL RUSTING.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL MISCELLANEOUS STEEL SHAPES AND COMPONENTS THAT FALL WITHIN THE PROJECT SCOPE BUT ARE NOT INDICATED ON THE STRUCTURAL PLANS. SUCH ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- MISCELLANEOUS STEEL SUPPORTS CLOSURE PLATES ON EXPOSED STEEL PROFILES LAVATORY SUPPORTS PARTIAL HEIGHT WALL PARTITIONS
- CEILING MOUNTED PARTITIONS CEILING MOUNTED EQUIPMENT CUSTOM MILLWORK

REVEAL TRIM DESIGN

- THE ENLARGED ELEVATIONS, SECTIONS, AND DETAILS INDICATE TYPICAL REVEALS AT THE INTERFACE BETWEEN ADJOINING MATERIALS, AND AT INTERSECTING PLANES SUCH AS HORIZONTAL TO VERTICAL.
- 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.
- EXTRUDED REVEAL TRIM SHALL BE PAINTED TO MATCH THE COLOR OF THE ADJACENT FINISH, UNLESS NOTED

SPECIAL INSPECTIONS AND SUBMITTALS

- 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.
- SPECIAL INSPECTIONS ARE REQUIRED FOR THE FOLLOWING WORK, BUT ARE NOT LIMITED TO: CONCRETE ANCHOR BOLTS INSTALLED IN CONCRETE.
 - REINFORCING STEEL AND REDRESSING STEEL. WEI DING
 - HIGH-STRENGTH BOLTING. STRUCTURAL MASONRY.

DEFERRED SUBMITTALS

- THE FOLLOWING BUILDING SYSTEMS SHALL BE DESIGN/BUILD BY THE CONTRACTOR AND SHALL BE SUBMITTED FOR SEPARATE REVIEW TO THE AUTHORITIES HAVING JURISDICTION:
- NON-STRUCTURAL MISCELLANEOUS STEEL FABRICATIONS. ELECTRIFIED HARDWARE / ACCESS CONTROL
- **HARDWARE** FIRE SPRINKLER / FIRE ALARM
- 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

REFLECTED CEILING PLAN NOTES

- 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. 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 CONTRADICTED ELSEWHERE WITHIN THE DOCUMENTS.
- MINIMIZE EXPOSED ACCESS HATCHES IN LOBBY AREAS, WHERE FINISHED CEILING IS GYP. BOARD, PLACE EQUIPMENT IN ADJACENT ACCESSIBLE CEILING AREAS ADJACENT TO HARD LID GYP. BOARD CEILINGS.
- ELEMENTS INDICATED ON THE ARCHITECTURAL CEILING PLANS, INCLUDING LIGHTS, AIR DIFFUSERS, SPRINKLER HEADS (WHERE INDICATED), DUCT RUNS, PIPING, SPEAKERS, ETC., INDICATE THE 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 KEYED ALIKE.

- THE CONTRACTOR SHALL REFER TO THE CONTRACT DOCUMENTS FOR THE LOCATION OF ALL EXPOSED MECHANICAL, ELECTRICAL AND 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 JUNCTION BOXES, PULL BOXES. CLEAN OUTS, VALVES, SWITCHES, ETC., WHERE 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 ON THE SPECIFIC MEP PLANS, BUT ONLY AFTER VERIFICATION FROM OWNER OR APPROVED REPRESENTATIVE.
- 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 PLACING A BID FOR THE WORK. OTHERWISE, THE LARGEST QUANTITY AND/OR MOST EXPENSIVE PRODUCT INDICATED SHALL APPLY.
- 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 ARCHITECTURAL LAYOUTS PRIOR TO PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.
- NOTIFY OWNER OR APPROVED REPRESENTATIVE OF ANY VARIATIONS BETWEEN THE NOTES HEREIN AND DRAWINGS, DETAILS, OR SPECIFICATIONS PRIOR TO PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.

HAS STANDARD

- THIS PROJECT IS TO FOLLOW HOUSTON AIRPORT SYSTEM (HAS) STANDARDS FOR ALL DISCIPLINES. HAS STANDARDS CAN BE FOUND AT THEIR WEBSITE, HTTP://WWW.HOUSTONAIRPORTS/BIZ/TIP.
- ANY CONFLICTS BETWEEN HAS STANDARDS AND BID/CONSTRUCTION DOCUMENTS ARE TO BE BROUGHT TO THE ARCHITECTS ATTENTION VIA RFI.
- 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

- 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.
- 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.
- 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 & APPROVED BY HAS AND THE WAYFINDING DESIGN CONSULTANTS THRU 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.

ELECTRICAL NOTES

- ALL ELECTRICAL POWER OUTLETS SHALL BE COMMERCIAL GRADE IN ALL AREAS. FACE PLATES SHALI BE STAINLESS STEEL WITH STAINLESS STEEL FLAT HEAD SCREW FASTENERS TO MATCH. ALL DEVICE AND FACEPLATE COLORS ARE TO BE VERIFIED WITH THE OWNER OR APPROVED REPRESENTATIVE.
- EXPOSED CONDUIT SHALL BE INSTALLED STRAIGHT, LEVEL, UNIFORMLY SPACED, AND PARALLEL TO EXPOSED STRUCTURAL ELEMENTS.
- 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 HAVING CONDUIT HANG DOWN OR DROP DOWN FROM THE CEILING INTO VISUALLY EXPOSED OPEN PLENUM SPACE.
- NO UNDER SLAB CONDUIT SHALL EXTEND TO CEILING MOUNTED DEVICES UNLESS CONCEALED FROM VIEW.
- NO OVERHEAD OR CEILING MOUNTED CONDUIT SHALL EXTEND DOWN FROM THE CEILING TO FLOOR OR WALL DEVICES UNLESS CONCEALED FROM VIEW.
- POWER DISTRIBUTION TO OVERHEAD LIGHTS AND OTHER OVERHEAD EQUIPMENT SHALL BE SUPPLIED BY CONDUIT RUNS PLACED IN THE CEILING, WITH CEILING HOME RUNS LOCATED BELOW STEEL BEAMS AND WITHIN THE OPEN WEB JOIST CAVITY.
- NO CONDUIT SHALL BE PLACED ON ANY EXPOSED COLUMN SURFACES UNLESS SPECIFICALLY INDICATED WITHIN THE ARCHITECTURAL DETAILS, OR SPECIFICALLY COORDINATED WITH THE OWNER OR APPROVED REPRESENTATIVE PRIOR TO INSTALLATION.
- 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.
- THERE SHALL BE NO EXPOSED CONDUITS ON/OR SPANNING ACROSS SKYLIGHT AREAS OR CLERESTORY.
- 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

- 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 REPRESENTATIV BEFORE PROCEEDING WITH AN ALTERNATIVE PRODUCT TO THAT WHICH IS SPECIFICALLY IDENTIFIED IN THE
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES, FIXTURE MOUNTING HEIGHTS, AND FIXTURE MOUNTING DETAILS; NOTIFY OWNER OR APPROVED REPRESENTATIVE OF ANY CONFLICTS BETWEEN THE INDICATED MOUNTING REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDED INSTALLATION DETAILS PRIOR TO ORDERING AND PURCHASING OF

ALL FIXTURE FINISHES ARE TO BE VERIFIED WITH THE OWNER OR APPROVED REPRESENTATIVE.

FIXTURES.

SUBMIT PRODUCT DATA FOR ALL LIGHTING SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO, COLOR, FINISH, MOUNTING HARDWARE, AND LAMPING; PROVIDE DETAILS FOR ANY NON-STANDARD MOUNTING CONFIGURATIONS. STANDARD FIXTURE MOUNTING IS ASSUMED TO BE MANUFACTURER'S STANDARD OR CUSTOM LENGTH SUSPENSION SYSTEM AND POWER CORD CONNECTION DIRECTLY TO THE ROOF DECK, ROOF STRUCTURE, AND ROOF DECK MOUNTED J-BOXES, WHERE APPLICABLE.

5. SEE NOTE 7 ON THE REFLECTED CEILING PLAN NOTES.

ACCESSIBILITY NOTES

- 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.
- CIRCULATION AISLES AND PEDESTRIAN WAYS SHALL BE SIZED ACCORDING TO FUNCTIONAL REQUIREMENTS BUT SHALL NOT BE LESS THAN 36" IN CLEAR WIDTH. EVERY PORTION OF EVERY BUILDING IN WHICH ARE INSTALLED SEATS, TABLES, MERCHANDISE, EQUIPMENT, OR SIMILAR MATERIALS SHALL BE PROVIDED WITH AISLES I FADING TO AN EXIT
- 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.
- FREE STANDING OBJECTS MOUNTED ON POSTS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE FINISHED FLOOR.
- 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. 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 36" CONTINUOUSLY.
- THE MINIMUM CLEAR WIDTH FOR 2 WHEELCHAIRS TO PASS SHALL BE 60". THE MINIMUM CLEAR WIDTH REQUIRED FOR A WHEELCHAIR TO TURN AROUND AN OBSTRUCTION SHALL BE 36" WHERE THE OBSTRUCTION IS 48" OR MORE IN
- LENGTH AND 42" WHERE THE OBSTRUCTION IS LESS THAN 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

PN209Δ | A.I.P. No. C.I.P. No.

ARCHITECTURE PLANNING INTERIORS

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DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

03.22.22 HB

REVISIONS No. DESCRIPTION DATE BY

Issued For Bidding

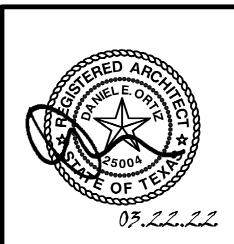
KATHERINE DOMINGUEZ **DESIGN BY: HECTOR BERRIOS** DRAWN BY: **CHECKED BY:** DANIEL ORTIZ **ISSUE DATE:** 03.22.2022

> DIRECTOR **HOUSTON AIRPORT SYSTEM**



APPROVED BY:

APPROVAL DATE:

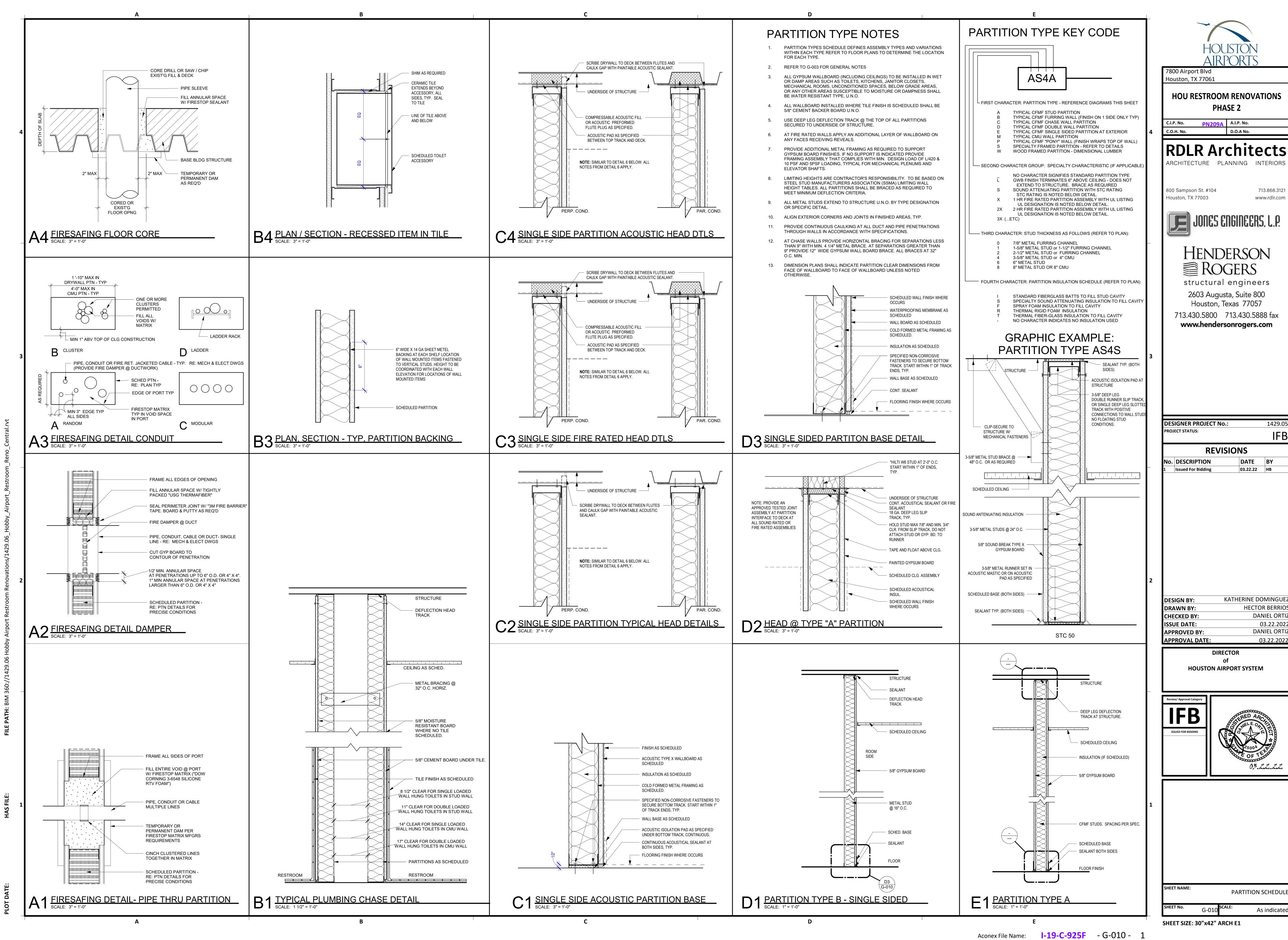


DANIEL ORTIZ

03.22.2022

1/4" = 1'-0"

SHEET NAME: GENERAL NOTES



1429.05

KATHERINE DOMINGUE **HECTOR BERRIOS**

DANIEL ORTIZ 03.22.2022 DANIEL ORTIZ 03.22.2022



PARTITION SCHEDULI As indicated Floor and Ceiling Runners -- (Not shown) -- Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max. Steel Studs -- Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. Batts and Blankets* -- (Required as indicated under Item 4) -- Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. a. Batts and Blankets* -- (Optional) -- Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV

or BZJZ) Categories for names of Classified companies. Gypsum Board* -- Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and

horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as

Wallboard Protection on Each Side of Wall

Rating	Min Stud	No. of Layers	Min Thkns
_	Depth	& Thkns	of Insulation
	of Panel	(Item 3)	
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY -- 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE UNITED STATES GYPSUM CO -- 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE USG MEXICO S A DE C V -- 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE When Item 6B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 3) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 5. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 5. Gypsum Board* -- (As an alternate to Item 4) -- 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required. CANADIAN GYPSUM COMPANY -- Type SHX. UNITED STATES GYPSUM CO -- Type SHX.

USG MEXICO S A DE C V -- Type SHX. Fasteners -- (Not shown) -- Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are

applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2- 1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in, OC. Screws offset min 6 in, from layer below, Four-layer systems; First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8

in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Furring Channels -- (Optional, not shown, for single or double layer systems) -- Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type

S-12 steel screws. Not for use with Item 4A. Steel Framing Members (Not Shown)* -- (Optional on one or both sides, not shown, for single or double layer systems) -- As an alternate to Item 6, furring channels and Steel Framing Members as described below: Furring Channels --Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 4A. Steel Framing Members* -- Used to attach furring channels (Item 6Aa) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PAC INTERNATIONAL INC -- Type RSIC-1.

Steel Framing Members (Optional, Not Shown)* -- As an alternate to Item 6, furring channels and Steel Framing Members on only one side of studs as

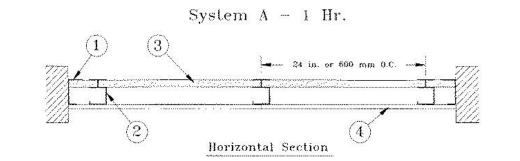
described below: Furring Channels -- Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 4. Two layers of gypsum board attached to furring channels as described in Item 4. Not for use with Item 4A. Steel Framing Members* -- Used to attach furring channels (Item 6Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to

studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into KINETICS NOISE CONTROL INC -- Type Isomax

Joint Tape and Compound -- Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge. Siding, Brick or Stucco -- (Optional, not shown) -- Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick. Caulking and Sealants* -- (Optional, not shown) -- A bead of acoustical sealant applied around the partition perimeter for sound control. UNITED STATES GYPSUM CO -- Type AS *Bearing the UL Classification Mark

DESIGN NO. U415 NONBEARING

WALL RATINGS - 1, 2, 3, OR 4 HR



Floor, Side and Ceiling Runners- "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners. Steel Studs - "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 5C, or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600

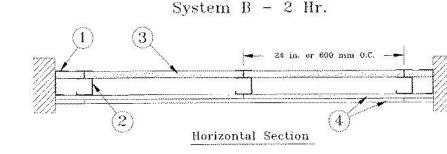
Steel Studs - (Not Shown) - "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D or Item 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor

to ceiling heights. Furring Channels - (Optional, not shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX or FRX-G gypsum wallboard (Item 4A) or cementitious backer units

Furring Channels - For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC. Steel Framing Members* - (Optional, not shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX or FRX-G gypsum wallboard (Item 4A) or cementitious backer units (Item 7):

Furring Channels - Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3. Steel Framing Members* - Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PAC INTERNATIONAL INC - Type RSIC-1.

Gypsum Board* - Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips. CANADIAN GYPSUM COMPANY - Type SLX UNITED STATES GYPSUM CO - Type SLX



USG MEXICO S A DE C V - Type SLX

Gypsum Board* - System A - 1 Hr Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing. CÁNADIAN GYPSUM COMPÁNY - Types ÁR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

UNITED STATES GYPSUM CO - Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR. SCX. SHX. WRC. WRX USG MEXICO S A DE C V - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX System B - 2 Hr. Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical

joints centered over studs and staggered 24 in. CANADIAN GYPSUM COMPANY - 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX UNITED STATES GYPSUM CO - 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX USG MEXICO S A DE C V - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types

USG MEXICO S A DE C V - Type SLX Gypsum Board* - System A - 1 Hr Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing. CANADIAN GYPSUM COMPANY - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR,

AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX

SCX. SHX, WRC, WRX UNITED STATES GYPSUM CO - Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX USG MEXICO S A DE C V - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX,

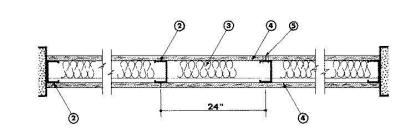
System B - 2 Hr. Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. CANADIAN GYPSUM COMPANY - 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in.

Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX UNITED STATES GYPSUM CO - 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR. C. FRX-G. IP-AR. IP-X1. IP-X2. IPC-AR. SCX. SHX. WRC. WRX USG MEXICO S A DE C V - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX 5. Joint Tape and Compound - (Not Shown). Systems A, B, C, E, F, G, H, I Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound

Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound. Batts and Blankets* - Systems A, B, E, F, G, H, I. (Optional) - Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance. Systems C & D Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners. THERMAFIBER INC - Type SAFB *Bearing the UL Classification Mark

DESIGN NO. U448

DESIGN NO. U448



Floor and Ceiling Channel — 2-1/2 in. wide by 1-3/8 in. deep channel, 0.021 (25 MSG) galvanized steel, attached with screws spaced 24 in. OC. Steel Studs — 2-1/2 in. wide by 1-3/8 in. deep channel sections with 1/4 in. lip on each flange tip, 0.021 in. (25 MSG) galvanized steel studs spaced 24 in. OC. Batts and Blankets* — 1-1/2 in. thick mineral wool batts supplied in 2 by 4 ft batts; attached to wallboard with staples 18 in. OC.

ROCK WOOL MANUFACTURING CO — Delta Board. ROXUL INC — (Staples optional).

wide, attached to steel studs and floor and ceiling track with 0.127 in. diam self-drilling, selftapping screws, 1 in. long spaced 8 in. OC along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. AMERICAN GYPSUM CO — Types AG-C. BPB AMERICA INC — ProRoc Type C. BPB CANADA INC — ProRoc Type C. CANADIAN GYPSUM COMPANY — Types C, IP-X2, IPC-AR.

G-P GYPSUM CORP. SUB OF GEORGIA-PACIFIC CORP — Type 5.

LAFARGE NORTH AMERICA INC — Type LGFC-C, LGFC-C/A. NATIONAL GYPSUM CO — Types FSK-C, FSW-C, FSMR-C. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C.

TEMPLE-INLAND FOREST PRODUCTS CORP — Type TG-C. UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR. USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR.

Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. *Bearing the UL Classification Mark



7800 Airport Blvd Houston, TX 77061

> **HOU RESTROOM RENOVATIONS** PHASE 2

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1429.05 PROJECT STATUS: **REVISIONS**

DESIGNER PROJECT No.:

No. DESCRIPTION DATE BY **Issued For Bidding** 03.22.22 HB

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

> **DIRECTOR HOUSTON AIRPORT SYSTEM**



APPROVAL DATE:



As indicated

UL DESIGNS

703 SIGNS

COMPLY WITH 703.4.

703.1 GENERAL. SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED. 703.2 RAISED CHARACTERS. RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND

SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4. 703.2.1 DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND.

703.2.2 CASE. CHARACTERS SHALL BE UPPERCASE. 703.2.3 STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. 703.2.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. 703.2.7 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE. EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS. SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH (1.6 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH (9.5 MM) MINIMUM. 703.2.8 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT. 703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3 AND 703.4. 703.3.1 DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. 703.4 INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL

CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER 703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC

703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS

SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR

GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE

OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN 703.5 VISUAL CHARACTERS. VISUAL CHARACTERS SHALL COMPLY WITH 703.5. 703.5.1 FINISH AND CONTRAST, CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND 703.5.2 CASE. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A

703.5.3 STYLE. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL 703.5.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 703.5.5 CHARACTER HEIGHT. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE **703.5.6 HEIGHT FROM FINISH FLOOR OR GROUND**. VISUAL CHARACTERS SHALL BE 40 INCHES (1015 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

703.5.7 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER 703.5.8 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT 703.5.9 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT. 703.6 PICTOGRAMS. PICTOGRAMS SHALL COMPLY WITH 703.6.

703.6.1 PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES (150 MM) MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM 703.6.2 FINISH AND CONTRAST. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. **703.6.3 TEXT DESCRIPTORS.** PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 703.2. 703.3 AND 703.4. 703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7.1 FINISH AND CONTRAST. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST

OR A DARK SYMBOL ON A LIGHT BACKGROUND. 703.7.2 SYMBOLS. 703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 703.7.2.1.

WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND



FIG. 703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY

302 FLOOR OR GROUND SURFACES

302.1 GENERAL. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 302. **302.2 CARPET.** CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH (13 MM) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303. **302.3 OPENINGS.** OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH (13 MM) DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 409.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

303 CHANGES IN LEVEL

303.1 GENERAL. WHERE CHANGES IN LEVEL ARE PERMITTED IN FLOOR OR GROUND SURFACES, THEY SHALL COMPLY WITH 303. 303.2 VERTICAL. CHANGES IN LEVEL OF 1/4 INCH (6.4 MM) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. 303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4 INCH (6.4 MM) HIGH MINIMUM AND 1/2 INCH (13 MM) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT

303.4 RAMPS. CHANGES IN LEVEL GREATER THAN 1/2 INCH (13 MM) HIGH SHALL



FIG. 303.2 VERTICAL CHANGE IN LEVEL FIG. 303.3 BEVELED CHANGE IN LEVEL

304 TURNING SPACE

304.1 GENERAL, TURNING SPACE SHALL COMPLY WITH 304. 304.2 FLOOR OR GROUND SURFACES, FLOOR OR GROUND SURFACES OF A TURNING SPACE SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT **304.3 SIZE.** TURNING SPACE SHALL COMPLY WITH 304.3.1 OR 304.3.2. **304.3.1 CIRCULAR SPACE.** THE TURNING SPACE SHALL BE A SPACE OF 60 INCHES (1525 MM) DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306. **304.3.2 T-SHAPED SPACE**. THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH (1525 MM) SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES (915 MM) WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES (305 MM) MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES (610 MM) MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

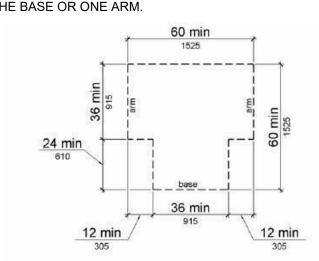


FIG. 304.3.2 T-SHAPED TURNING SPACE

304.4 DOOR SWING. DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES. **305 CLEAR FLOOR OR GROUND SPACE**

305.1 GENERAL. CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 305. **305.2 FLOOR OR GROUND SURFACES.** FLOOR OR GROUND SURFACES OF A CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT **305.3 SIZE.** THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES (760 MM) MINIMUM BY 48 INCHES (1220 MM) MINIMUM



FIG. 305.3 CLEAR FLOOR OR GROUND SPACE

305.4 KNEE AND TOE CLEARANCE. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306. 305.5 POSITION. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT

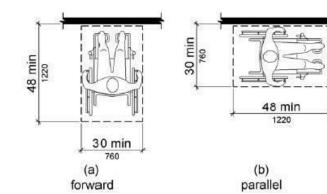


FIG. 305.5 POSITION OF CLEAR FLOOR OR GROUND SPACE

305.6 APPROACH. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE. 305.7 MANEUVERING CLEARANCE. WHERE A CLEAR FLOOR OR GROUND SPACE IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES, ADDITIONAL MANEUVERING CLEARANCE SHALL BE PROVIDED IN ACCORDANCE WITH 305.7.1 AND 305.7.2. 305.7.1 FORWARD APPROACH. ALCOVES SHALL BE 36 INCHES (915 MM)WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES (610 MM). 305.7.2 PARALLEL APPROACH. ALCOVES SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES (380 MM).

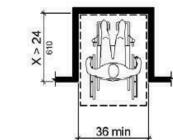


FIG. 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

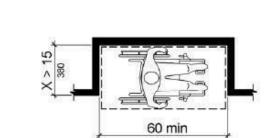


FIG. 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

306 KNEE AND TOE CLEARANCE 306.1 GENERAL. WHERE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE, THE SPACE SHALL COMPLY WITH 306. ADDITIONAL SPACE SHALL NOT BE PROHIBITED BENEATH AN ELEMENT BUT SHALL NOT BE CONSIDERED AS PART OF THE CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE. 306.2 TOE CLEARANCE.

306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2. 306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT. **306.2.3 MINIMUM REQUIRED DEPTH.** WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES (430 MM) MINIMUM UNDER THE ELEMENT

306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES (150 MM) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE. 306.2.5 WIDTH, TOE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.

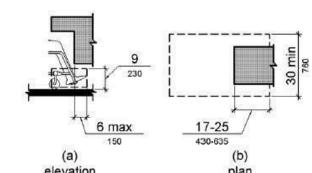
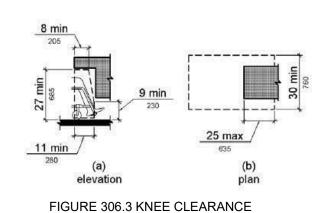


FIG. 306.2 TOE CLEARANCE

306.3 KNEE CLEARANCE.

306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3. 306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND. **306.3.3 MINIMUM REQUIRED DEPTH.** WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES (280 MM) DEEP MINIMUM AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND, AND 8 INCHES (205 MM) DEEP MINIMUM AT 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND. 306.3.4 CLEARANCE REDUCTION. BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH (25 MM) IN DEPTH FOR EACH 6 INCHES (150 MM) IN HEIGHT. 306.3.5 WIDTH. KNEE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.



307 PROTRUDING OBJECTS

307.1 GENERAL. PROTRUDING OBJECTS SHALL COMPLY WITH 307. **307.2 PROTRUSION LIMITS.** OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (100 MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH

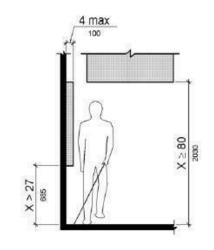


FIG. 307.2 LIMITS OF PROTRUDING OBJECTS

307.3 POST-MOUNTED OBJECTS. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12 INCHES (305 MM) MAXIMUM WHEN LOCATED 27 INCHES (685 MM) MINIMUM AND 80 INCHES (2030 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12 INCHES (305 MM). THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27 INCHES (685 MM) MAXIMUM OR 80 INCHES (2030 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

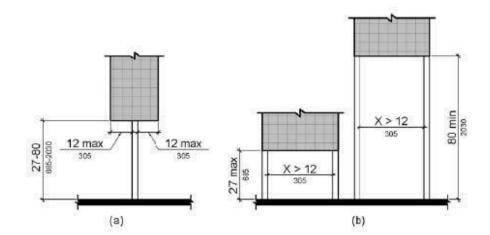
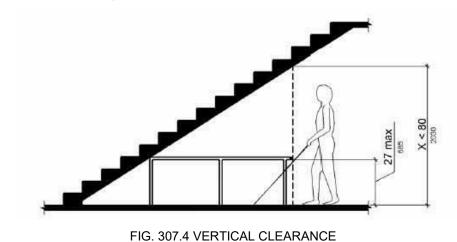


FIG. 307.3 POST-MOUNTED PROTRUDING OBJECTS

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80 INCHES (2030 MM) HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES (2030 MM) HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES (685 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. 307.5 REQUIRED CLEAR WIDTH. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES.



308 REACH RANGES

308.1 GENERAL. REACH RANGES SHALL COMPLY WITH 308 308.2 FORWARD REACH. **308.2.1 UNOBSTRUCTED.** WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW

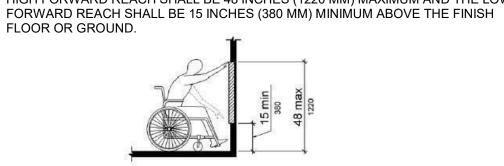
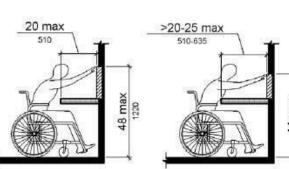


FIG. 308.2.1 UNOBSTRUCTED FORWARD REACH

308.1 GENERAL. REACH RANGES SHALL COMPLY WITH 308 308.2 FORWARD REACH. **308.2.1 UNOBSTRUCTED.** WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUNI 308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION. THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES (510 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES (510 MM), THE HIGH FORWARD REACH SHALL BE 44 INCHES (1120 MM) MAXIMUM AND THE REACH DEPTH SHALL BE 25

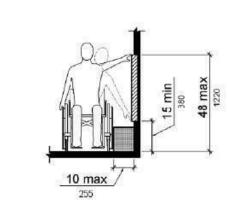


INCHES (635 MM) MAXIMUM.

FIG. 308.2.2 OBSTRUCTED HIGH FORWARD REACH

308.3 SIDE REACH.

308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND. 308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.



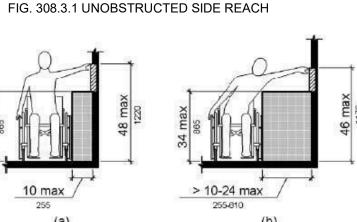


FIG. 308.3.2 OBSTRUCTED HIGH SIDE REACH

308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (865 MM) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610 MM) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM FOR A REACH DEPTH OF 10 INCHES (255 MM)308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (865 MM) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610 MM) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM FOR A REACH DEPTH OF 10 INCHES (255 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES (255 MM), THE HIGH SIDE REACH SHALL BE 46 INCHES (1170 MM) MAXIMUM FOR A REACH DEPTH OF 24 INCHES (610 MM) MAXIMUM.

402 ACCESSIBLE ROUTES

402.1 GENERAL. ACCESSIBLE ROUTES SHALL COMPLY WITH 402. 402.2 COMPONENTS. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20. DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE

403 WALKING SURFACES

403.1 GENERAL. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 403. 403.2 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACES SHALL **403.3 SLOPE.** THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. 403.4 CHANGES IN LEVEL. CHANGES IN LEVEL SHALL COMPLY WITH 303. 403.5 CLEARANCES. WALKING SURFACES SHALL PROVIDE CLEARANCES **403.5.1 CLEAR WIDTH.** EXCEPT AS PROVIDED IN 403.5.2 AND 403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES (915 MM) 403.5.2 CLEAR WIDTH AT TURN. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES (1220 MM) WIDE, CLEAR WIDTH SHALL BE 42 INCHES (1065 MM) MINIMUM APPROACHING THE TURN, 48 INCHES (1220 MM) MINIMUM AT THE TURN AND 42 INCHES (1065 MM) MINIMUM LEAVING THE TURN. 403.5.3 PASSING SPACES. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES (1525 MM) SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET (61 M) MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES (1525 MM) MINIMUM BY 60 INCHES (1525 MM) MINIMUM; OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE COMPLYING WITH 304.3.2 WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48 INCHES (1220 MM) MINIMUM BEYOND THE INTERSECTION. 403.6 HANDRAILS. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH RUNNING SLOPES NOT STEEPER THAN 1:20 THEY SHALL COMPLY WITH 505.

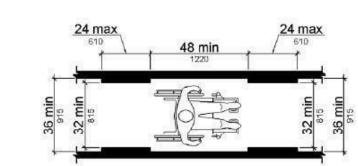
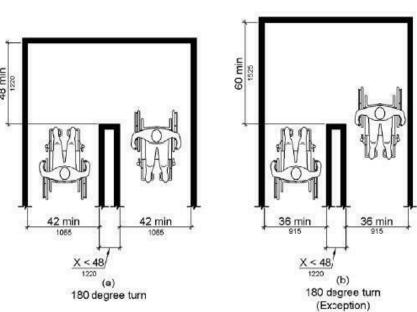


FIG. 403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE





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

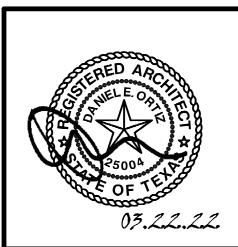
No. DESCRIPTION DATE BY **Issued For Bidding** 03.22.22 HB

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

> **DIRECTOR HOUSTON AIRPORT SYSTEM**



APPROVAL DATE:



03.22.2022

TEXAS ACCESSIBILITY GUIDELINES - 1 OF 1

12" = 1'-0"

407.4.6 ELEVATOR CAR CONTROLS. WHERE PROVIDED, ELEVATOR CAR CONTROLS SHALL COMPLY WITH 407.4.6 AND 309.4. 407.4.6.1 LOCATION. CONTROLS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. **407.4.6.2 BUTTONS.** CAR CONTROL BUTTONS WITH FLOOR DESIGNATIONS SHALL COMPLY WITH 407.4.6.2 AND SHALL BE RAISED OR FLUSH. 407.4.6.2.1 SIZE. BUTTONS SHALL BE 3/4 INCH (19 MM) MINIMUM IN THEIR SMALLEST DIMENSION 407.4.6.2.2 ARRANGEMENT. BUTTONS SHALL BE ARRANGED WITH NUMBERS IN ASCENDING ORDER. WHEN TWO OR MORE COLUMNS OF BUTTONS ARE PROVIDED THEY SHALL READ FROM LEFT TO RIGHT. 407.4.6.3 KEYPADS. CAR CONTROL KEYPADS SHALL BE IN A STANDARD TELEPHONE KEYPAD ARRANGEMENT AND SHALL COMPLY WITH 407.4.7.2.

LUX) MINIMUM

407.4.5 ILLUMINATION. THE LEVEL OF ILLUMINATION AT THE CAR CONTROLS,

PLATFORM, CAR THRESHOLD AND CAR LANDING SILL SHALL BE 5 FOOT CANDLES (54

407.4.6.4 EMERGENCY CONTROLS. EMERGENCY CONTROLS SHALL COMPLY **407.4.6.4.1 HEIGHT.** EMERGENCY CONTROL BUTTONS SHALL HAVE THEIR CENTERLINES 35 INCHES (890 MM) MINIMUM ABOVE THE FINISH

407.4.6.4.2 LOCATION. EMERGENCY CONTROLS, INCLUDING THE EMERGENCY ALARM, SHALL BE GROUPED AT THE BOTTOM OF THE

407.4.7 DESIGNATIONS AND INDICATORS OF CAR CONTROLS. DESIGNATIONS AND INDICATORS OF CAR CONTROLS SHALL COMPLY WITH 407.4.7. **407.4.7.1 BUTTONS.** CAR CONTROL BUTTONS SHALL COMPLY WITH 407.4.7.1. 407.4.7.1.1 TYPE. CONTROL BUTTONS SHALL BE IDENTIFIED BY TACTILE CHARACTERS COMPLYING WITH 703.2. 407.4.7.1.2 LOCATION. RAISED CHARACTER AND BRAILLE DESIGNATIONS SHALL BE PLACED IMMEDIATELY TO THE LEFT OF THE CONTROL BUTTON TO WHICH THE DESIGNATIONS APPLY. 407.4.7.1.3 SYMBOLS. THE CONTROL BUTTON FOR THE EMERGENCY STOP, ALARM, DOOR OPEN, DOOR CLOSE, MAIN ENTRY FLOOR, AND

PHONE, SHALL BE IDENTIFIED WITH TACTILE SYMBOLS AS SHOWN IN TABLE 407.4.7.1.3. 407.4.7.1.4 VISIBLE INDICATORS. BUTTONS WITH FLOOR DESIGNATIONS SHALL BE PROVIDED WITH VISIBLE INDICATORS TO SHOW THAT A CALL HAS BEEN REGISTERED. THE VISIBLE INDICATION SHALL EXTINGUISH WHEN THE CAR ARRIVES AT THE DESIGNATED FLOOR. 407.4.7.2 KEYPADS. KEYPADS SHALL BE IDENTIFIED BY CHARACTERS COMPLYING WITH 703.5 AND SHALL BE CENTERED ON THE CORRESPONDING KEYPAD BUTTON. THE NUMBER FIVE KEY SHALL HAVE A SINGLE RAISED DOT.

THE DOT SHALL BE 0.118 INCH (3 MM) TO 0.120 INCH (3.05 MM) BASE DIAMETER AND IN OTHER ASPECTS COMPLY WITH TABLE 703.3.1. **407.4.8 CAR POSITION INDICATORS.** AUDIBLE AND VISIBLE CAR POSITION INDICATORS SHALL BE PROVIDED IN ELEVATOR CARS. 407.4.8.1 VISIBLE INDICATORS. VISIBLE INDICATORS SHALL COMPLY WITH

407.4.8.1.1 SIZE. CHARACTERS SHALL BE 1/2 INCH (13 MM) HIGH MINIMUM. 407.4.8.1.2 LOCATION. INDICATORS SHALL BE LOCATED ABOVE THE CAR CONTROL PANEL OR ABOVE THE DOOR. 407.4.8.1.3 FLOOR ARRIVAL. AS THE CAR PASSES A FLOOR AND WHEN A CAR STOPS AT A FLOOR SERVED BY THE ELEVATOR, THE CORRESPONDING CHARACTER SHALL ILLUMINATE. 407.4.8.1.4 DESTINATION INDICATOR. IN DESTINATION-ORIENTED ELEVATORS, A DISPLAY SHALL BE PROVIDED IN THE CAR WITH VISIBLE INDICATORS TO SHOW 407.4.8.2 AUDIBLE INDICATORS. AUDIBLE INDICATORS SHALL COMPLY WITH

407.4.8.2.1 SIGNAL TYPE. THE SIGNAL SHALL BE AN AUTOMATIC VERBAL ANNUNCIATOR WHICH ANNOUNCES THE FLOOR AT WHICH THE CAR IS ABOUT 407.4.8.2.2 SIGNAL LEVEL. THE VERBAL ANNUNCIATOR SHALL BE 10 DB MINIMUM ABOVE AMBIENT, BUT SHALL NOT EXCEED 80 DB, MEASURED AT THE

ANNUNCIATOR. 407.4.8.2.3 FREQUENCY. THE VERBAL ANNUNCIATOR SHALL HAVE A FREQUENCY OF 300 HZ MINIMUM TO 3000 HZ MAXIMUM. 407.4.9 EMERGENCY COMMUNICATION. EMERGENCY TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH 308. TACTILE SYMBOLS AND CHARACTERS SHALL BE PROVIDED ADJACENT TO THE DEVICE AND SHALL COMPLY WITH 703.2.

502 PARKING SPACES 502.1 GENERAL. CAR AND VAN PARKING SPACES SHALL COMPLY WITH 502. WHERE PARKING SPACES ARE MARKED WITH LINES, WIDTH MEASUREMENTS OF PARKING SPACES AND ACCESS AISLES SHALL BE MADE FROM THE CENTERLINE OF THE MARKINGS.

502.2 VEHICLE SPACES. CAR PARKING SPACES SHALL BE 96 INCHES (2440 MM) WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 132 INCHES (3350 MM) WIDE MINIMUM, SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE COMPLYING WITH 502.3. 502.2 VEHICLE SPACES. CAR PARKING SPACES SHALL BE 96 INCHES (2440 MM) WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 132 INCHES (3350 MM) WIDE MINIMUM, SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE COMPLYING WITH 502.3. **502.3 ACCESS AISLE.** ACCESS AISLES SERVING PARKING SPACES SHALL COMPLY WITH 502.3. ACCESS AISLES

SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE. **502.3.1 WIDTH.** ACCESS AISLES SERVING CAR AND VAN PARKING SPACES SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM. 502.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACES THEY SERVE. 502.3.3 MARKING. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING

502.3.4 LOCATION. ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR ANGLED VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES. 502.4 FLOOR OR GROUND SURFACES. PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. 502.5 VERTICAL CLEARANCE. PARKING SPACES FOR VANS AND ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF 98

502.6 IDENTIFICATION. PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 60 INCHES (1525 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN. 502.7 RELATIONSHIP TO ACCESSIBLE ROUTES. PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT CARS AND VANS, WHEN PARKED, CANNOT OBSTRUCT THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES.

503 PASSENGER LOADING ZONES

INCHES (2490 MM) MINIMUM.

503.1 GENERAL. PASSENGER LOADING ZONES SHALL COMPLY WITH 503. 503.2 VEHICLE PULL-UP SPACE. PASSENGER LOADING ZONES SHALL PROVIDE A VEHICULAR PULL-UP SPACE 96 INCHES (2440 MM) WIDE MINIMUM AND 20 FEET (6100 MM) LONG MINIMUM. **503.3 ACCESS AISLE.** PASSENGER LOADING ZONES SHALL PROVIDE ACCESS AISLES COMPLYING WITH 503 ADJACENT TO THE VEHICLE PULL-UP SPACE. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY **503.3.1 WIDTH.** ACCESS AISLES SERVING VEHICLE PULL-UP SPACES SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM

503.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE VEHICLE PULL-UP SPACES THEY SERVE 503.3.3 MARKING. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING 503.4 FLOOR AND GROUND SURFACES. VEHICLE PULL-UP SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE VEHICLE PULL-UP SPACE THEY SERVE. CHANGES IN LEVEL ARE NOT

503.5 VERTICAL CLEARANCE, VEHICLE PULL-UP SPACES, ACCESS AISLES SERVING THEM, AND A VEHICULAR ROUTE FROM AN ENTRANCE TO THE PASSENGER LOADING ZONE, AND FROM THE PASSENGER LOADING ZONE TO A VEHICULAR EXIT SHALL PROVIDE A VERTICAL CLEARANCE OF 114 INCHES (2895 MM) MINIMUM.

504 STARIWAYS

504.1 GENERAL. STAIRS SHALL COMPLY WITH 504. **504.2 TREADS AND RISERS.** ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES (100 MM) HIGH MINIMUM AND 7 INCHES (180 MM) HIGH MAXIMUM. TREADS SHALL BE 11 INCHES (280 MM) DEEP MINIMUM.

504.3 OPEN RISERS. OPEN RISERS ARE NOT PERMITTED. 504.4 TREAD SURFACE. STAIR TREADS SHALL COMPLY WITH 302. CHANGES IN LEVEL **504.5 NOSINGS.** THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH (13 MM) MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/2

INCHES (38 MM) MAXIMUM OVER THE TREAD BELOW. 504.6 HANDRAILS. STAIRS SHALL HAVE HANDRAILS COMPLYING WITH 505. **504.7 WET CONDITIONS.** STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

505 HANDRAILS 505.1 GENERAL. HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH

403. REQUIRED AT RAMPS COMPLYING WITH 405, AND REQUIRED AT STAIRS COMPLYING WITH 504 SHALL COMPLY WITH 505. **505.2 WHERE REQUIRED.** HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS. 505.3 CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS. 505.4 HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (865 MM) MINIMUM AND 38 INCHES (965 MM) MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP **505.5 CLEARANCE.** CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND

ADJACENT SURFACES SHALL BE 1 1/2 INCHES (38 MM) MINIMUM.

505.6 GRIPPING SURFACE. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES (38 MM) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE. **505.7 CROSS SECTION.** HANDRAIL GRIPPING SURFACES SHALL HAVE A CROSS SECTION COMPLYING WITH 505.7.1 OR 505.7.2. **505.7.1** CIRCULAR CROSS SECTION. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM. 505.7.2 NON-CIRCULAR CROSS SECTIONS. HANDRAIL GRIPPING SURFACES WITH A

NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES

(100 MM) MINIMUM AND 6 1/4 INCHES (160 MM) MAXIMUM, AND A CROSS-SECTION

GRIPPING SURFACES SHALL HAVE A CROSS SECTION COMPLYING WITH 505.7.1 OR

505.7.1 CIRCULAR CROSS SECTION. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR

DIMENSION OF 2 1/4 INCHES (57 MM) MAXIMUM.505.7 CROSS SECTION. HANDRAIL

CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM)

505.7.2 NON-CIRCULAR CROSS SECTIONS. HANDRAIL GRIPPING SURFACES WITH A

(100 MM) MINIMUM AND 6 1/4 INCHES (160 MM) MAXIMUM, AND A CROSS-SECTION

505.10 HANDRAIL EXTENSIONS. HANDRAIL GRIPPING SURFACES SHALL EXTEND

BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN

505.9 FITTINGS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES

505.8 SURFACES. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO

THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED

505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS. RAMP HANDRAILS SHALL EXTEND

HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEYOND THE

TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD,

OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN

505.10.2 TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS

SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM

BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN

TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE

HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL

DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING.

EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL

602.2 CLEAR FLOOR SPACE. UNITS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE

COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH AND CENTERED ON

602.4 SPOUT HEIGHT. SPOUT OUTLETS SHALL BE 36 INCHES (915 MM) MAXIMUM ABOVE

602.5 SPOUT LOCATION. THE SPOUT SHALL BE LOCATED 15 INCHES (380 MM) MINIMUM

602.6 WATER FLOW. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES (100 MM)

HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES (125 MM) MAXIMUM FROM THE FRONT

FROM THE VERTICAL SUPPORT AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT

HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE

LOCATED LESS THAN 3 INCHES (75 MM) OF THE FRONT OF THE UNIT, THE ANGLE OF

BETWEEN 3 INCHES (75 MM) AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT OF

602.7 DRINKING FOUNTAINS FOR STANDING PERSONS. SPOUT OUTLETS OF DRINKING

FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES (965 MM) MINIMUM AND 43

603.2.1 TURNING SPACE. TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED

603.2.2 OVERLAP. REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND

603.2.3 DOOR SWING. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR

603.3 MIRRORS. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE

INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES (1015

LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF

THE REFLECTING SURFACE 35 INCHES (890 MM) MAXIMUM ABOVE THE FINISH FLOOR

603.4 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF

THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES (1015

604.1 GENERAL. WATER CLOSETS AND TOILET COMPARTMENTS SHALL COMPLY WITH

PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET

SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (430

MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION

IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. WATER

604.3.1 SIZE. CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES (1525 MM)

FIG. 604.2 WATER CLOSET LOCATION

FIG. 604.3.1 SIZE OF CLEARANCE AT WATER CLOSETS

604.3.2 OVERLAP. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE

TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN

604.4 SEATS. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL

PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS,

SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES,

CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE

MINIMUM AND 19 INCHES (485 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT.

604.5 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 609. GRAB

BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND

604.5.1 SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42 INCHES (1065 MM) LONG

604.5.2 REAR WALL. THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915 MM) LONG

FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305 MM) MINIMUM ON ONE

FIG. 604.5.2 REAR WALL GRAB BAR

AT WATER CLOSETS

MINIMUM, LOCATED 12 INCHES (305 MM) MAXIMUM FROM THE REAR WALL AND

SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

EXTENDING 54 INCHES (1370 MM) MINIMUM FROM THE REAR WALL.

SIDE AND 24 INCHES (610 MM) MINIMUM ON THE OTHER SIDE.

MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES (1420 MM)

ambulatory

closets

accessible water

SHALL BE 16 INCHES (405 MM) MINIMUM TO 18 INCHES (455 MM) MAXIMUM FROM THE

MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR.

604.2 LOCATION. THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR

CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.

604.3 CLEARANCE. CLEARANCES AROUND WATER CLOSETS AND IN TOILET

MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL.

wheelchair

water closets

THE REQUIRED WATER CLOSET CLEARANCE.

FIG. 604.5.1 SIDE WALL GRAB BAR

AT WATER CLOSETS

BE 17 INCHES (430 MM)

MINIMUM AND EXTEND

604 WATER CLOSETS AND TOILET COMPARTMENTS

MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE

CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING

THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.

THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED

THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

505.10.3 BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT,

BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

602.1 GENERAL. DRINKING FOUNTAINS SHALL COMPLY WITH 307 AND 602.

602.3 OPERABLE PARTS. OPERABLE PARTS SHALL COMPLY WITH 309.

OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED

INCHES (1090 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603.2 CLEARANCES. CLEARANCES SHALL COMPLY WITH 603.2.

TURNING SPACE SHALL BE PERMITTED TO OVERLAP.

603.1 GENERAL. TOILET AND BATHING ROOMS SHALL COMPLY WITH 603.

MINIMUM AND 2 INCHES (51 MM) MAXIMUM.

ACCORDANCE WITH 505.10.

ADJACENT RAMP RUN.

FDGES.

DIMENSION OF 2 1/4 INCHES (57 MM) MAXIMUM.

HANDRAIL OF AN ADJACENT STAIR FLIGHT.

602 DRINKING FOUNTAINS

THE FINISH FLOOR OR GROUND

EDGE OF THE UNIT, INCLUDING BUMPERS.

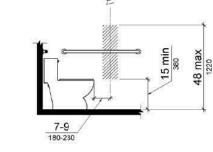
603 TOILET & BATHING ROOMS

INTO THE REQUIRED TURNING SPACE.

COMPARTMENTS SHALL COMPLY WITH 604.3.

WITHIN THE ROOM.

OR GROUND.



604.7 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL

WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLIET OF

MAXIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS.

DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT

BE 7 INCHES (180 MM) MINIMUM AND 9 INCHES (230 MM) MAXIMUM IN FRONT OF THE

THE DISPENSER SHALL BE 15 INCHES (380 MM) MINIMUM AND 48 INCHES (1220 MM)

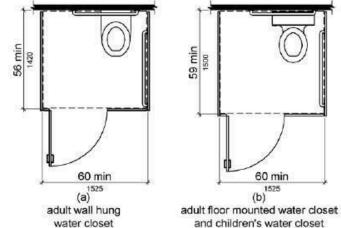
ALLOW CONTINUOUS PAPER FLOW.

FIG. 604.7 DISPENSER OUTLET LOCATION

604.8 TOILET COMPARTMENTS. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL MEET THE REQUIREMENTS OF 604.8.1 AND 604.8.3. COMPARTMENTS CONTAINING MORE THAN ONE PLUMBING FIXTURE SHALL COMPLY WITH 603. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.2 AND 604.8.3. 604.8.1 WHEELCHAIR ACCESSIBLE COMPARTMENTS. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.1.

604.8.1.1 SIZE. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES (1420 MM) DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES (1500 MM) DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 59 INCHES (1500 MM) DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. **604.8.1.2 DOORS.** TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES (1065 MM) MINIMUM. DOORS SHALL BE LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (100 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (100 MM) MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

604.8.1.3 APPROACH. COMPARTMENTS SHALL BE ARRANGED FOR LEFT-HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET. **604.8.1.4 TOE CLEARANCE**. THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9 INCHES (230 MM) MINIMUM ABOVE THE FINISH FLOOR AND 6 INCHES (150 MM) DEEP MINIMUM BEYOND THE COMPARTMENT-SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. COMPARTMENTS FOR CHILDREN'S USE SHALL PROVIDE A TOE CLEARANCE OF 12 INCHES (305 MM) MINIMUM ABOVE THE FINISH FLOOR.



and children's water closet water closet FIG. 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

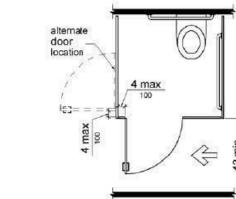


FIG. 604.8.1.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

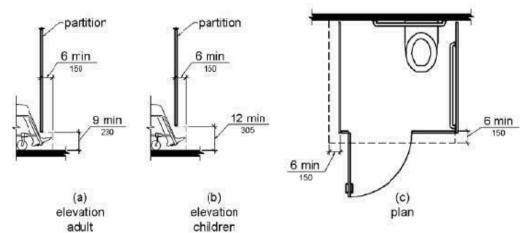


FIG. 604.8.1.4 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

W	
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Toile	
Gra	
Disp	

Ages 3 and 4 12 inches (305 mm) Centerline et Seat Height 510 mm) 14 inches (355 mm)

Advisory Specifications for Water Closets Serving Children Ages 3 through 12 Ages 5 through 8 Ages 9 through 12 12 to 15 inches (305 to 15 to 18 inches (380 380 mm) to 455 mm) 11 to 12 inches (280 to 12 to 15 inches (305 to 15 to 17 inches (380 to 430 mm) 18 to 20 inches (455 to 20 to 25 inches (510 to 25 to 27 inches (635 to 685 mm) 635 mm) 14 to 17 inches (355 to 17 to 19 inches (430 430 mm) to 485 mm)

604.8.1.5 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609. A SIDE-WALL GRAB BAR COMPLYING WITH 604.5.1 SHALL BE PROVIDED AND SHALL BE LOCATED ON THE WALL CLOSEST TO THE WATER CLOSET. IN ADDITION, A REAR-WALL GRAB BAR COMPLYING WITH 604.5.2 SHALL BE PROVIDED. **604.8.2 AMBULATORY ACCESSIBLE COMPARTMENTS.** AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.2. 604.8.2.1 SIZE, AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE A

DEPTH OF 60 INCHES (1525 MM) MINIMUM AND A WIDTH OF 35 INCHES (890 MM) MINIMUM AND 37 INCHES (940 MM) MAXIMUM. **604.8.2.2 DOORS.** TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 404, EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR. CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES (1065 MM) MINIMUM. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

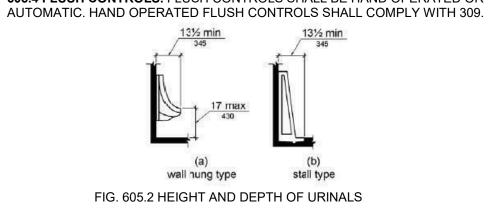
604.8.2.3 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609. A SIDE-WALL GRAB BAR COMPLYING WITH 604.5.1 SHALL BE PROVIDED ON BOTH SIDES OF THE 604.8.3 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES (1015 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR. 604.9 WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE. WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE SHALL COMPLY WITH

604.9.1 LOCATION. THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 12 INCHES (305 MM) MINIMUM AND 18 INCHES (455 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. COMPARTMENTS SHALL BE ARRANGED FOR LEFT-HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET. 604.9.2 CLEARANCE. CLEARANCE AROUND A WATER CLOSET SHALL COMPLY WITH

604.9.3 HEIGHT. THE HEIGHT OF WATER CLOSETS SHALL BE 11 INCHES (280 MM) MINIMUM AND 17 INCHES (430 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION 604.9.4 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 604.5. **604.9.5 FLUSH CONTROLS.** FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309.2 AND 309.4 AND SHALL BE INSTALLED 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH 604.8.2. **604.9.6 DISPENSERS.** TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL BE 7 INCHES (180 MM) MINIMUM AND 9 INCHES (230 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 14 INCHES (355 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM ABOVE THE FINISH FLOOR. THERE SHALL BE A CLEARANCE OF 1 1/2 INCHES (38 MM) MINIMUM BELOW THE GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW. 604.9.7 TOILET COMPARTMENTS. TOILET COMPARTMENTS SHALL COMPLY WITH 604.8.

605 URINALS

605.1 GENERAL. URINALS SHALL COMPLY WITH 605. **605.2 HEIGHT AND DEPTH.** URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES (430 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 1/2 INCHES (345 MM) DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. **605.3 CLEAR FLOOR SPACE.** A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. 605.4 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309. **605.3 CLEAR FLOOR SPACE.** A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. 605.4 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR



606 LAVATORIES AND SINKS

606.1 GENERAL. LAVATORIES AND SINKS SHALL COMPLY WITH 606. 606.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305. POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED. 606.3 HEIGHT. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES (865 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. **606.4 FAUCETS.** CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM. 606.5 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS

609 GRAB BARS

609.1 GENERAL. GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY WITH 609 609.2 CROSS SECTION. GRAB BARS SHALL HAVE A CROSS SECTION COMPLYING WITH 609.2.1 OR 609.2.2 609.2.1 CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM. 609.2.2 NON-CIRCULAR CROSS SECTION. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2 INCHES (51 MM) MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES (100 MM) MINIMUM AND 4.8 INCHES (120 MM) MAXIMUM. **609.3 SPACING.** THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2 INCHES (38 MM). THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2 INCHES (38 MM) MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES (305 MM) MINIMUM 609.4 POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL

POSITION, 33 INCHES (840 MM) MINIMUM AND 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE COMPLYING WITH 604.9, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES (455 MM) MINIMUM AND 27 INCHES (685 MM) MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. THE HEIGHT OF THE LOWER GRAB BAR ON THE BACK WALL OF A BATHTUB SHALL COMPLY WITH 607.4.1.1 OR 607.4.2.1. **609.5 SURFACE HAZARDS.** GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

609.6 FITTINGS. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS. **609.7 INSTALLATION.** GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE SPECIFIED LOCATIONS AND THAT DOES NOT OBSTRUCT THE REQUIRED CLEAR FLOOR SPACE. 609.8 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (1112 N) IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

702 FIRE ALARM SYSTEMS

702.1 GENERAL. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (1999 OR 2002 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1 EXCEPT THAT THE MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 (1999 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 110 DB AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. IN ADDITION. ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 (1999 EDITION) OR SECTIONS 7.4 AND 7.5 OF NFPA 72 (2002 EDITION).

703 SIGNS 703.1 GENERAL. SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE

CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED. **703.2 RAISED CHARACTERS.** RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4. 703.2.1 DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND.

703.2.2 CASE. CHARACTERS SHALL BE UPPERCASE.

703.2.3 STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. 703.2.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. 703.2.7 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE. EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS. SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH (1.6 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH (9.5 MM) MINIMUM. 703.2.8 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT. 703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703 3 AND 703 4 703.3.1 DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF

SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. **703.4 INSTALLATION HEIGHT AND LOCATION**. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4. 703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE. MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE

703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR. THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN

703.5 VISUAL CHARACTERS. VISUAL CHARACTERS SHALL COMPLY WITH 703.5. **703.5.1 FINISH AND CONTRAST.** CHARACTERS AND THEIR BACKGROUND SHALL HAVE *.* NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND 703.5.2 CASE. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH. 703.5.3 STYLE, CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL

NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL 703.5.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 703.5.5 CHARACTER HEIGHT, MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I".

703.5.6 HEIGHT FROM FINISH FLOOR OR GROUND. VISUAL CHARACTERS SHALL BE 40

INCHES (1015 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

703.5.7 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "!" SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER 703.5.8 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

703.5.9 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT. 703.6 PICTOGRAMS. PICTOGRAMS SHALL COMPLY WITH 703.6. 703.6.1 PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES (150

MM) MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM 703.6.2 FINISH AND CONTRAST. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. 703.6.3 TEXT DESCRIPTORS. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 703.2, 703.3 AND 703.4. 703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7.1 FINISH AND CONTRAST. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST

703.7.2 SYMBOLS. 703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 703.7.2.1.

WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND



OR A DARK SYMBOL ON A LIGHT BACKGROUND.

FIG. 703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY

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PHASE 2

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

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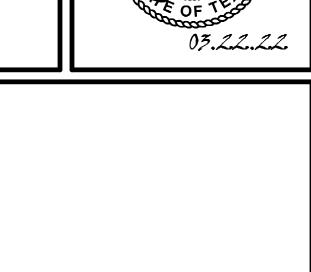
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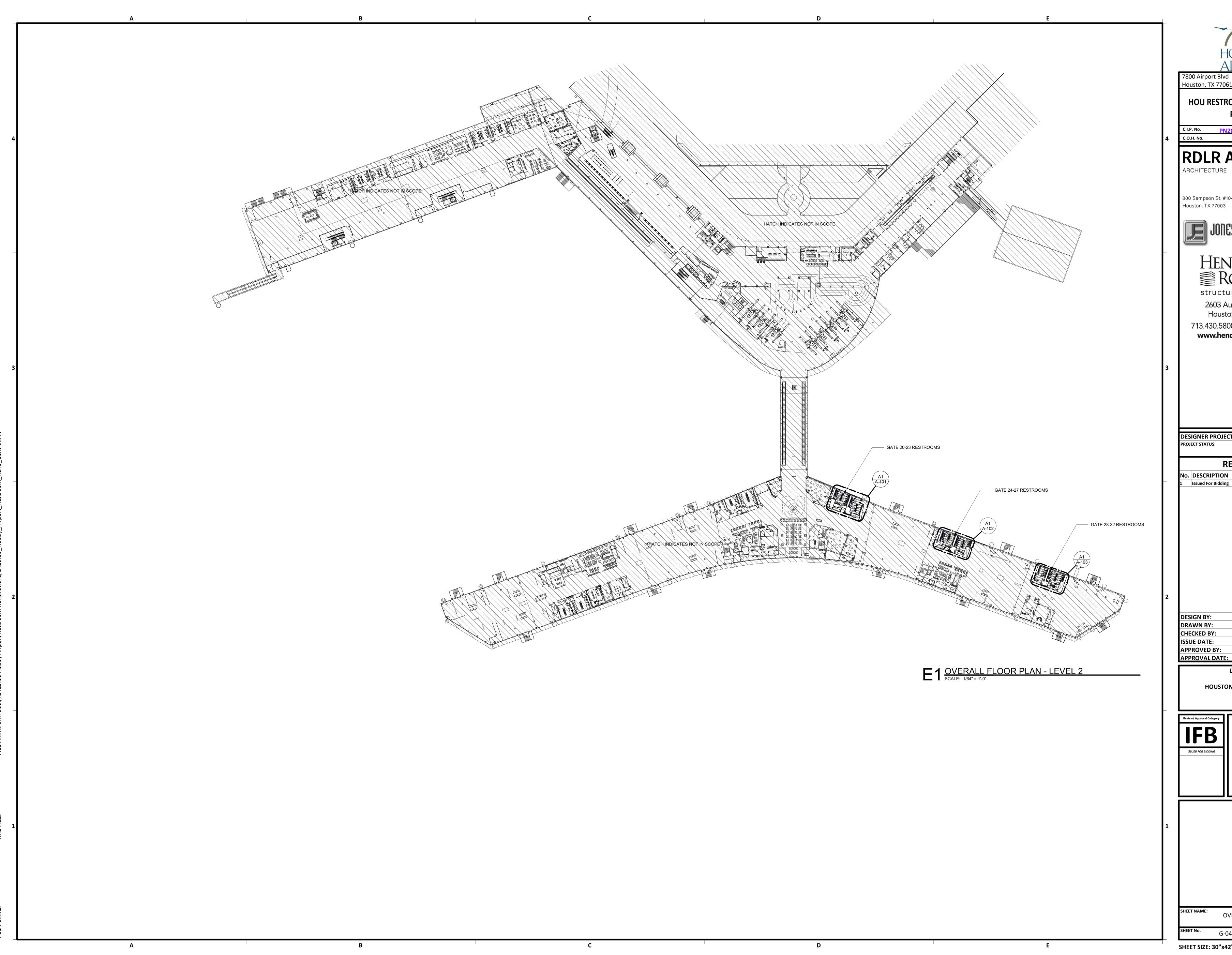




HEET NAME: TEXAS ACCESSIBILITY GUIDELINES - 2 OF 2

12" = 1'-0"

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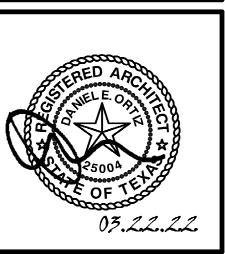
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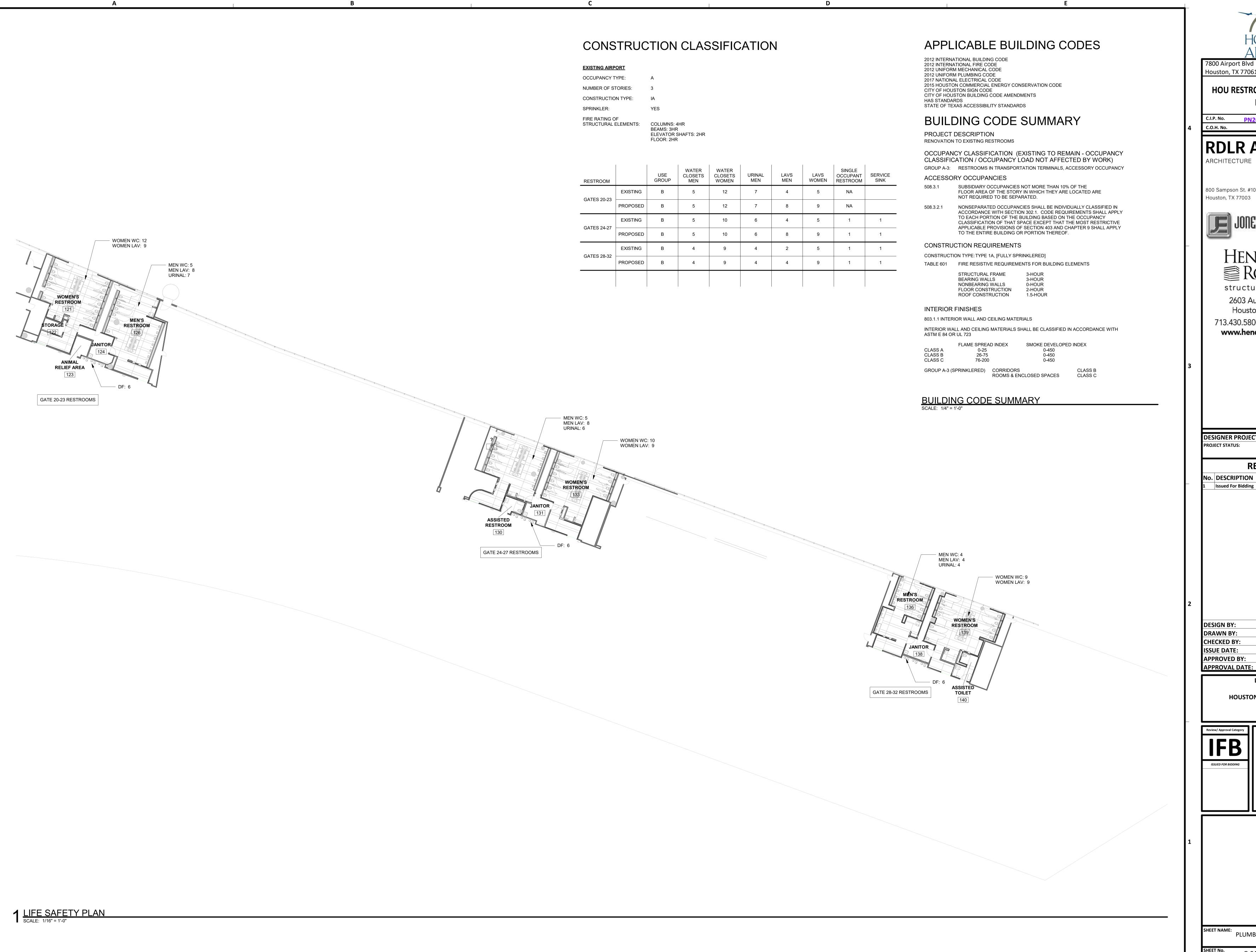
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OVERALL FLOOR PLAN - LEVEL 2 1/64" = 1'-0"



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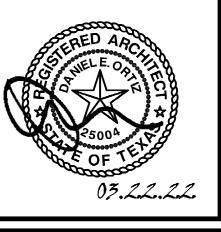
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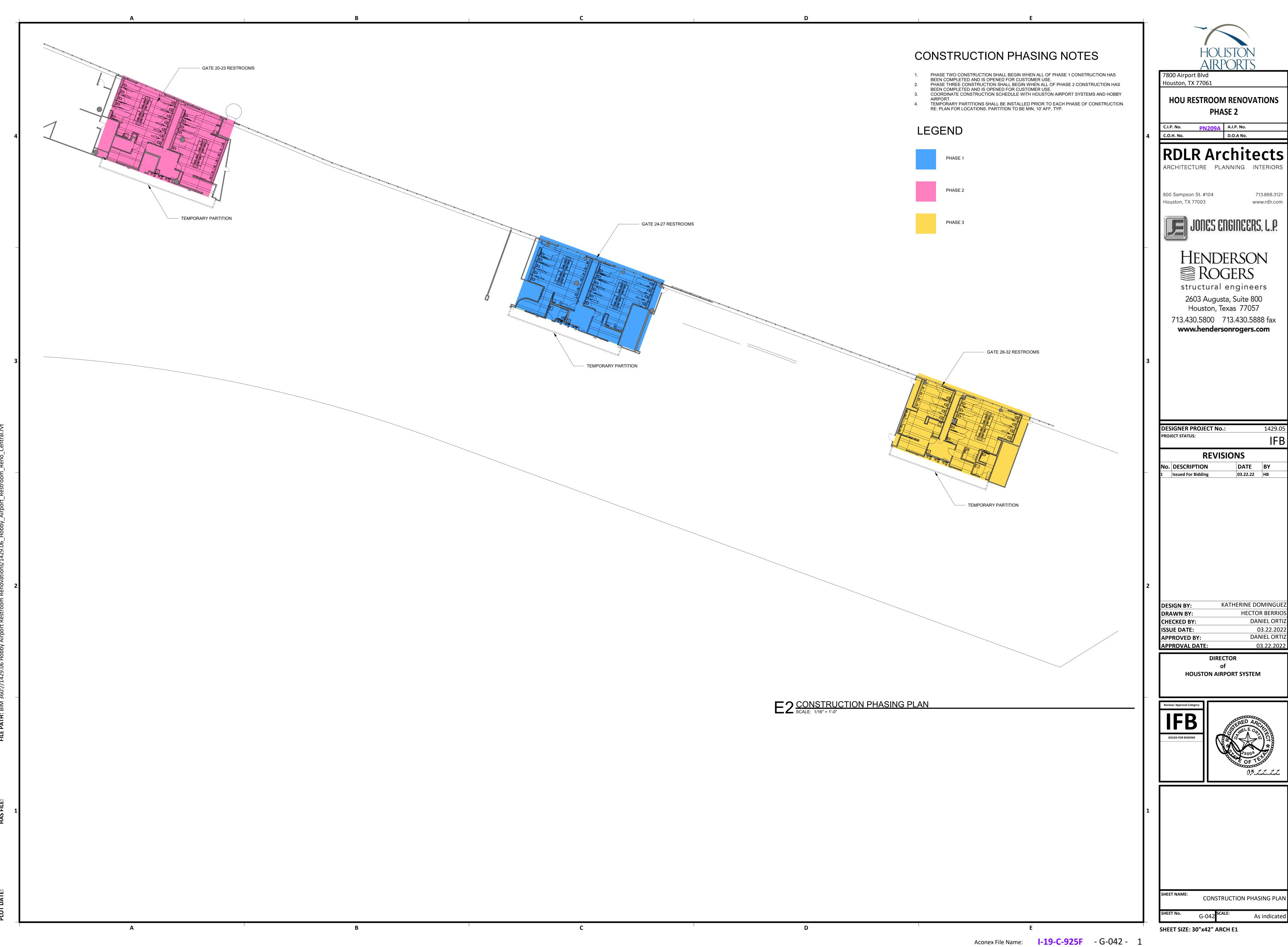
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SUMMARY



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1429.05

DATE BY 03.22.22 HB

KATHERINE DOMINGUEZ HECTOR BERRIOS DANIEL ORTIZ 03.22.2022 DANIEL ORTIZ



CONSTRUCTION PHASING PLAN

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE RESPRESENTED 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 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), 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 ATTACHEDMENT SYSTEM TO AVOID DAMAGE TO EXISTING GYP BOARD TO REMAIN AND STUD FRAMING OR AS REQUIRED PER DRAWING.

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 REINSTALLATIO
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

______ L-----

LIGHT FIXTURES TO BE REMOVED, REFER MEP DWGS FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.

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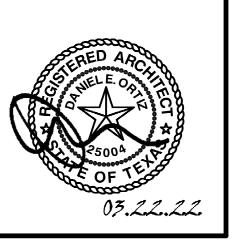
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APPROVAL DATE:



DEMOLITION PLAN - GATE 20-23 RESTROOMS As indicated

SHEET SIZE: 30"x42" ARCH E1

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 $^-$ PROVIDE 8FT HEIGHT TEMPORARY DUST DUST FENCE W/ CUSTOM PRINTED VINYL GRAPHIC FOR USE DURING CONSTRUCTION $\,-$

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

DEMOLITION GENERAL NOTES

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE RESPRESENTED 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
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- 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
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- STANDARDS AND SPECIFICATION BY CONTRACTOR. CONTRACTOR TO SUBMIT TEMPORARY PROTECTION LAYOUT FOR APPROVAL AND BEFORE STARTING INSTALLING WORK.

CAREFULLY REMOVE EACH PANEL AND ATTACHEDMENT SYSTEM TO AVOID DAMAGE TO EXISTING GYP BOARD TO REMAIN AND STUD FRAMING OR AS REQUIRED PER DRAWING.

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

	KEVNOTE TEVT
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.

DEMOLITION LEGEND

DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED

REMOVE EXISTING SPANDREL GLAZING FROM CURTAIN WALL

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

PN209A A.I.P. No. C.I.P. No.

ARCHITECTURE PLANNING INTERIORS

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HENDERSON **ROGERS**

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www.hendersonrogers.com

DESIGNER PROJECT No.: 1429.05

REVISIONS

No. DESCRIPTION DATE BY 03.22.22 HB **Issued For Bidding**

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

HOUSTON AIRPORT SYSTEM





As indicated

DEMOLITION PLAN - GATE 24-2 RESTROOMS

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - AD-102 - 1

NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE RESPRESENTED 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 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), IPAD'S, WIFI DEVICES, SPEAKERS, CABLING,

COMMUNICATION CABINET ETC. ALL DEVICES SHALL BE REINSTALLED PER HAS IT STANDARDS AND SPECIFICATION BY CONTRACTOR. 9. CONTRACTOR TO SUBMIT TEMPORARY PROTECTION LAYOUT FOR APPROVAL AND BEFORE STARTING INSTALLING 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 ATTACHEDMENT SYSTEM TO AVOID DAMAGE TO

EXISTING GYP BOARD TO REMAIN AND STUD FRAMING OR AS REQUIRED PER DRAWING.

CONTRACTOR SHALL REVIEW AND COORDINATE MEP DEMO AND NEW WORK

KEYNOTE LEGEND KEY VALUE KEYNOTE TEXT REMOVE ALL EXISTING FINISHES AND GYP BD. FROM METAL STUDS REMOVE EXISTING COUNTER TOP. REMOVE EXISTING FLOOR TILE & PREP AS REQUIRED FOR INSTALLATION OF NEW REMOVE EXISTING TOILET PARTITIONS. REMOVE EXISTING PLUMBING FIXTURES & STEEL SUPPORTS. PLUMBING LINES TO BE PREPARED/RELOCATED AS REQUIRED FOR NEW WORK, TYP. REMOVE EXISTING GRANITE FINISH, S.S. BASE AND GYP BD. REFRAME WALL AS REQUIRED FOR NEW DRINKING FOUNTAINS REMOVE EXISTING SLATE FINISH, S.S. BASE AND GYP BD. EXISTING HM DOOR & FRAME TO REMAIN.

REMOVE EXISTING CERAMIC TILE FINISH & PREP COLUMN FOR NEW FINISH.

EXISTING IPAD. REMOVE, PROTECT AND SALVAGE FOR RELOCATION.

EXISTING PARTITION TO REMAIN

REMOVE EXISTING SPANDREL GLAZING FROM CURTAIN WALL

DEMOLITION LEGEND

DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED

NOT IN SCOPE

REFER TO NOTE D01

L----

LIGHT FIXTURES TO BE REMOVED, REFER MEP DWGS FOR ADDITIONAL INFORMATION ON

EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.

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> **HOU RESTROOM RENOVATIONS** PHASE 2

> > D.O.A No.

PN209A A.I.P. No. C.I.P. No.

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DESIGNER PROJECT No.:

REVISIONS

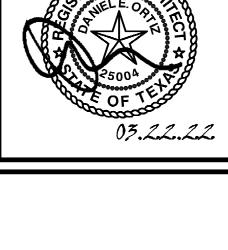
No. DESCRIPTION DATE BY 03.22.22 HB **Issued For Bidding**

KATHERINE DOMINGUE HECTOR BERRIOS DANIEL ORTIZ **ISSUE DATE:** DANIEL ORTIZ **APPROVED BY:**

APPROVAL DATE: **HOUSTON AIRPORT SYSTEM**







DEMOLITION PLAN - GATE 28-32 RESTROOMS As indicated

SHEET SIZE: 30"x42" ARCH E1 Aconex File Name: I-19-C-925F - AD-103 - 1

YY2.5

18' - 0"

SIM

RESTROOM

7' - 6"

TOILET

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

YY1.5

8' - 5 1/8"

_____(D30)

RESTROOM

7' - 4 1/2"

PROVIDE 8FT HEIGHT TEMPORARY DUST DUST FENCE W/ CUSTOM PRINTED VINYL GRAPHIC FOR USE DURING CONSTRUCTION

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE RESPRESENTED IN THESE PLANS AND THEREFORE THE INTENT OF THE DEMOLITION PLANS ARE TO INDICATE TYPICAL WORK REQUIRED. GENERAL CONTRACTOR TO DETERMINE EXACT
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- 3. 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 HAS FIRST RIGHT OF SALVAGE. ALL EXISTING FINISHES TO BE REMOVED AND REMAINING SURFACES TO BE REPAIRED AND PREPPED FOR NEW FINISHES.
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KEYNOTE LEGEND KEYNOTE TEXT

KEY VALUE

FACE PLATE.

REMOVE EXISTING GYP BD. CEILING.
REMOVE ACOUSTICAL CEILING AND GRID.

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.

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> **HOU RESTROOM RENOVATIONS** PHASE 2

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DESIGNER PROJECT No.: 1429.05

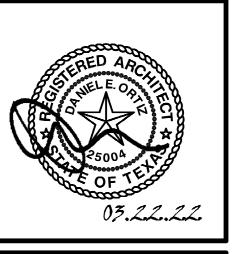
REVISIONS

DATE BY No. DESCRIPTION 03.22.22 HB **Issued For Bidding**

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

APPROVAL DATE: DIRECTOR **HOUSTON AIRPORT SYSTEM**





SHEET NAME:
DEMOLITION RCP - GATE 20-23 RESTROOMS

As indicated

Aconex File Name: I-19-C-925F - AD-140 - 1

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE RESPRESENTED IN THESE PLANS AND THEREFORE THE INTENT OF THE DEMOLITION PLANS ARE TO INDICATE TYPICAL WORK REQUIRED. GENERAL CONTRACTOR TO DETERMINE EXACT
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AND REINSTALLED BY THE CONTRACTOR , THIS SHALL INCLUDE BUT NOT LIMITED TO

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KEYNOTE LEGEND

KEYNOTE TEXT

KEY VALUE

REMOVE EXISTING GYP BD. CEILING. REMOVE ACOUSTICAL CEILING AND GRID.

AND PREPPED FOR NEW FINISHES.

DEMOLITION LEGEND

DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED _ _ _ _ _ _ _ _

EXISTING PARTITION TO REMAIN

NOT IN SCOPE

REFER TO NOTE D01

L----

LIGHT FIXTURES TO BE REMOVED, REFER MEP DWGS FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.

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> **HOU RESTROOM RENOVATIONS** PHASE 2

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DESIGNER PROJECT No.: 1429.05

REVISIONS

DATE BY No. DESCRIPTION 03.22.22 HB **Issued For Bidding**

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

APPROVAL DATE: DIRECTOR

HOUSTON AIRPORT SYSTEM





SHEET NAME:
DEMOLITION RCP - GATE 24-27 RESTROOMS

As indicated

- NOT ALL EXISTING CONDITIONS AND DEVICES/EQUIPMENT ARE RESPRESENTED IN THESE PLANS AND THEREFORE THE INTENT OF THE DEMOLITION PLANS ARE TO INDICATE TYPICAL WORK REQUIRED. GENERAL CONTRACTOR TO DETERMINE EXACT
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KEYNOTE LEGEND

KEYNOTE TEXT

KEY VALUE

REMOVE EXISTING GYP BD. CEILING. REMOVE ACOUSTICAL CEILING AND GRID.

DEMOLITION LEGEND

_ _ _ _ _ _ _ _

DASHED LINE INDICATED OBJECT OR PARTITION TO BE DEMOLISHED

NOT IN SCOPE

REFER TO NOTE D01

EXISTING PARTITION TO REMAIN

L______

LIGHT FIXTURES TO BE REMOVED, REFER MEP DWGS FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES, HVAC, DATA, SPEAKERS TO BE REMOVED.



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> **HOU RESTROOM RENOVATIONS** PHASE 2

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DESIGNER PROJECT No.:

REVISIONS

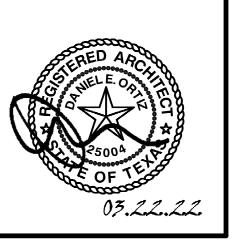
DATE BY No. DESCRIPTION 03.22.22 HB **Issued For Bidding**

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

DANIEL ORTIZ APPROVED BY: APPROVAL DATE:

HOUSTON AIRPORT SYSTEM





SHEET NAME:
DEMOLITION RCP - GATE 28-32 RESTROOMS

As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - AD-142 - 1

7800 Airport Blvd Houston, TX 77061 ARCHITECTURE PLANNING INTERIORS Houston, TX 77003 www.hendersonrogers.com No. DESCRIPTION - EXISTING GLAZING PANEL TO REMAIN EXISTING GLAZING PANEL TO REMAIN -- EXISTING MULLIONS TO REMAIN EXISTING MULLIONS TO REMAIN REMOVE EXISTING SPANDREL GLAZING PANEL ISSUE DATE: APPROVED BY: C2 SECTION THROUGH GLAZING
SCALE: 1/4" = 1'-0" D2 DEMO ELEVATION - GLAZING SCALE: 1/4" = 1'-0"

HOU RESTROOM RENOVATIONS PHASE 2

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

800 Sampson St. #104

www.rdlr.com

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HENDERSON ROGERS structural engineers

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DESIGNER PROJECT No.: 1429.05

REVISIONS

DATE BY

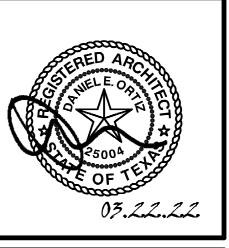
03.22.22 HB **Issued For Bidding**

KATHERINE DOMINGUEZ **DESIGN BY:** DRAWN BY: HECTOR BERRIOS DANIEL ORTIZ **CHECKED BY:** 03.22.2022

DANIEL ORTIZ **APPROVAL DATE:** 03.22.2022

DIRECTOR **HOUSTON AIRPORT SYSTEM**





DEMOLITION ELEVATIONS 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - AD-420 - 1

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 PATITION TYPES &
- 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 PARITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- INSTALL CEMENT BAORD FOR INSTALLATION OF NEW TILE.
- 7. 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
- PC-4 NOT USED.
- PC-5 NOT USED.
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 LOVAIR RIBBON HAND DRYER L-R031
- PF-2 LOVAIR RIBBON TAP L-R021
- 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-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 LOVATIR RIBBON SOAP DISPENSER L-R011
- 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
- PS-1 NOT USED.
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461102
- 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 LOVAIR TROUGH SINK LS12
- PL-2 LOVAIR TROUGH SINK LS12
- PS-1 SHOWER COLUMN
- 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

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> **HOU RESTROOM RENOVATIONS** PHASE 2

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DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

REVISIONS

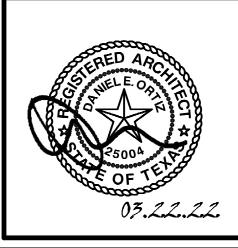
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lo.	DESCRIPTION	DATE	ВҮ			
	Issued For Bidding	03.22.22	НВ			

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

> DIRECTOR **HOUSTON AIRPORT SYSTEM**



APPROVAL DATE:



As indicated

SHEET NAME: FLOOR PLAN - GATE 20-23 RESTROOMS

SHEET SIZE: 30"x42" ARCH E1

A 1 FLOOR PLAN - GATE 20-23 RESTROOMS

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

Aconex File Name: I-19-C-925F - A-101 - 1

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 PATITION 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 PARITIONS & TOILET ACCESSORIES.
- REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.
- 6. INSTALL CEMENT BAORD FOR INSTALLATION OF NEW TILE.
- 7. EXISTING HM FRAME TO BE PAINTED.

KEY VALUE

KEYNOTE LEGEND - PLANS

KEYNOTE TEXT

CUSTOMER SERVICE IPAD DOCKING STATION. RE: C2/A-420 FOR TYPICAL ELEVATION. NEW SINK ISLANDS TO BE CENTERED OVER EXISTING PLUMBING URINALS TO BE CENTERED IN WALL PANEL PATTERN, TYP. RE: ELEVATIONS. RELOCATE PLUMBING LINES AS REQ'D.

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
- PC-4 NOT USED.
- PC-5 NOT USED.
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 LOVAIR RIBBON HAND DRYER L-R031
- PF-2 LOVAIR RIBBON TAP L-R021
- 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-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 LOVATIR RIBBON SOAP DISPENSER L-R011
- 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
- PS-1 NOT USED.
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461102
- 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 LOVAIR TROUGH SINK LS12
- PL-2 LOVAIR TROUGH SINK LS12 PS-1 SHOWER COLUMN
- 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

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> **HOU RESTROOM RENOVATIONS** PHASE 2

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RDLR Architects

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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:

REVISIONS

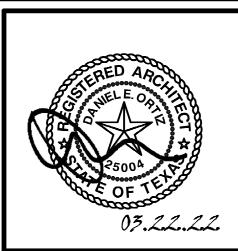
No. DESCRIPTION DATE BY 03.22.22 HB **Issued For Bidding**

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

> DIRECTOR **HOUSTON AIRPORT SYSTEM**



APPROVAL DATE:

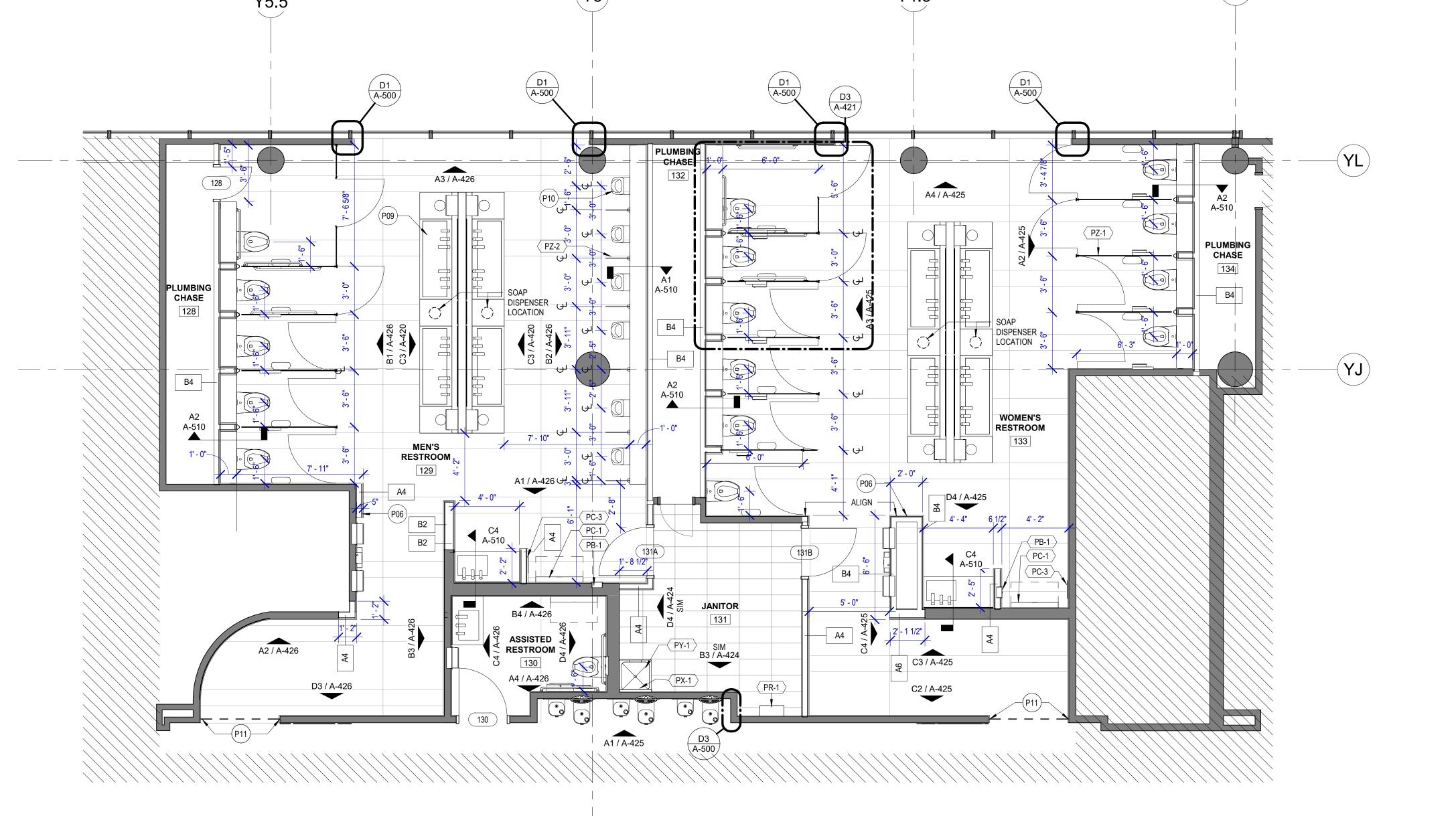


03.22.2022

SHEET NAME: FLOOR PLANS - GATE 24-27 RESTROOMS

As indicated SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - A-102 - 1



A 1 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 PATITION TYPES &
- 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.

REFRAME WALL AS REQUIRED FOR INSTALLATION OF NEW DRINKING FOUNTAINS.

- PROVIDE BLOCKING AS REQUIRED FOR PARITIONS & TOILET ACCESSORIES.
- INSTALL CEMENT BAORD FOR INSTALLATION OF NEW TILE.
- EXISTING HM FRAME TO BE PAINTED.

KEYNOTE LEGEND - PLANS

KEYNOTE TEXT KEY VALUE

CUSTOMER SERVICE IPAD DOCKING STATION. RE: C2/A-420 FOR TYPICAL ELEVATION. URINALS TO BE CENTERED IN WALL PANEL PATTERN, TYP. RE: ELEVATIONS. RELOCATE PLUMBING LINES AS REQ'D.

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
- PC-4 NOT USED.
- PC-5 NOT USED.
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 LOVAIR RIBBON HAND DRYER L-R031
- PF-2 LOVAIR RIBBON TAP L-R021
- 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-2 CARVART FLOATING MIRROR
- PN-1 BOBRICK SANITARY NAPKIN DISPOSAL B-254
- PO-1 LOVATIR RIBBON SOAP DISPENSER L-R011
- 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
- PS-1 NOT USED.
- TF-1 TORK SURFACE MOUNTED AUTOMATIC PAPER TOWEL DISPENSER 461102
- 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
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PLUMBING FIXTURES

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- PS-1 SHOWER COLUMN
- PT-1 TOTO WALL MOUNTED TOILET CT708EVG
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- PV-1 HALSEY TAYLOR IN WALL HYDROBOOST WATER BOTTLE REFILL STATION
- PY-1 ZURN MOP SINK 1996-24



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> **HOU RESTROOM RENOVATIONS** PHASE 2

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ARCHITECTURE PLANNING INTERIORS





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

REVISIONS

No. DESCRIPTION DATE BY 03.22.22 HB **Issued For Bidding**

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

> DIRECTOR **HOUSTON AIRPORT SYSTEM**



APPROVAL DATE:



03.22.2022

As indicated

SHEET NAME: FLOOR PLAN - GATE 28-32 RESTROOMS

SHEET SIZE: 30"x42" ARCH E1

YY1.5

DISPENSER

C4 / A-428

LOCATION

A 1 FLOOR PLAN - GATE 28-32 RESTROOMS

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

20' - 0"

C4 A3 / A-428_{A-510}

C1 / A-428

YY2.5

LOCATION

A4 / A-428

20' - 0"

Aconex File Name: I-19-C-925F - A-103 - 1

RCP GENERAL NOTES

REFER TO G-003 FOR LIGHTING GENERAL NOTES

CONSTRUCTION

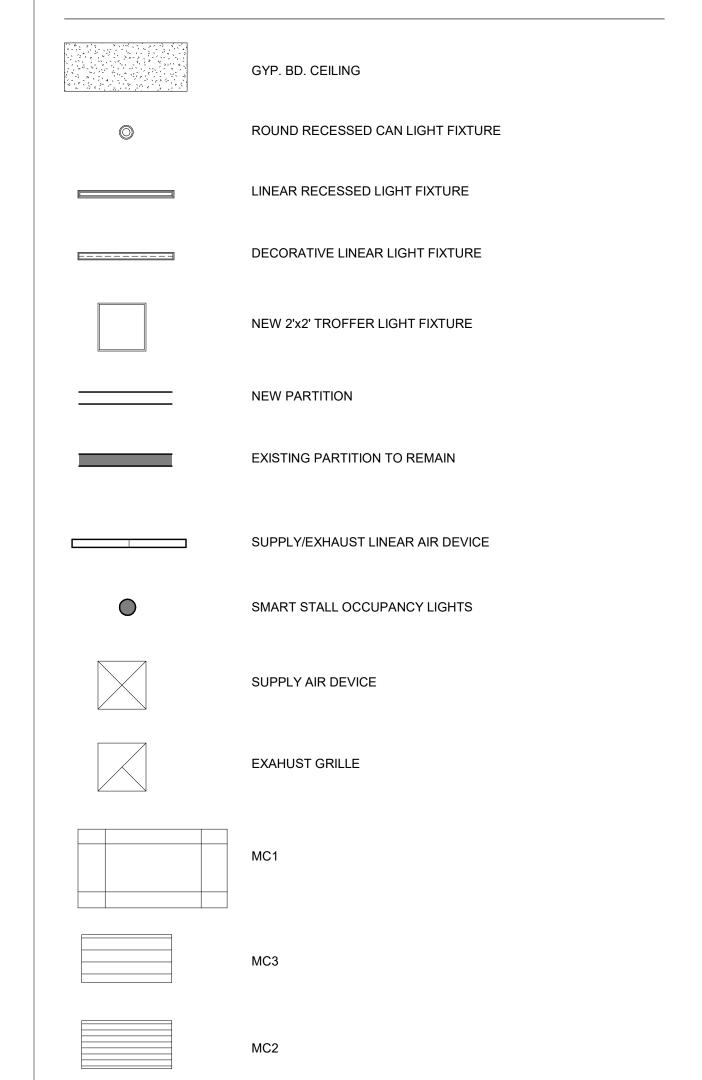
REFER TO SHEET A-600 FOR MATERIAL LEGEND

FIELD VERIFY ALL CONDITIONS AND REPORT ANY DISCREPENCIES 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

ALL FIXTURES, EQUIPMENT, FURNITURE, AND FINISHES TO BE SOUTHWEST AIRLINES STANDARD, U.N.O; VERIFY WITH OWNER

REFLECTED CEILING PLAN LEGEND



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> **HOU RESTROOM RENOVATIONS** PHASE 2

> > PN209A A.I.P. No.

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DESIGNER PROJECT No.:

REVISIONS

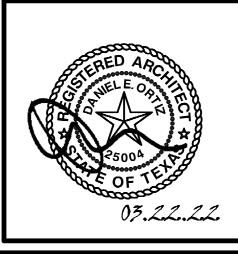
DATE BY No. DESCRIPTION 03.22.22 HB **Issued For Bidding**

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

> DIRECTOR **HOUSTON AIRPORT SYSTEM**



APPROVAL DATE:



SHEET NAME:
REFLECTED CEILING PLAN - GATE 20-23
RESTROOMS 1/4" = 1'-0"

RCP GENERAL NOTES

- REFER TO G-003 FOR LIGHTING GENERAL NOTES
- 2. REFER TO SHEET A-600 FOR MATERIAL LEGEND
- FIELD VERIFY ALL CONDITIONS AND REPORT ANY DISCREPENCIES 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
- ALL FIXTURES, EQUIPMENT, FURNITURE, AND FINISHES TO BE SOUTHWEST AIRLINES STANDARD, U.N.O; VERIFY WITH OWNER

REFLECTED CEILING PLAN LEGEND

GYP. BD. CEILING

LINEAR RECESSED LIGHT FIXTURE

ROUND RECESSED CAN 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

EXAHUST GRILLE

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DESIGNER PROJECT No.:

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> DIRECTOR **HOUSTON AIRPORT SYSTEM**



APPROVED BY:

APPROVAL DATE:



DANIEL ORTIZ

SHEET NAME:
REFLECTED CEILING PLAN - GATE 24-27
RESTROOMS 1/4" = 1'-0"

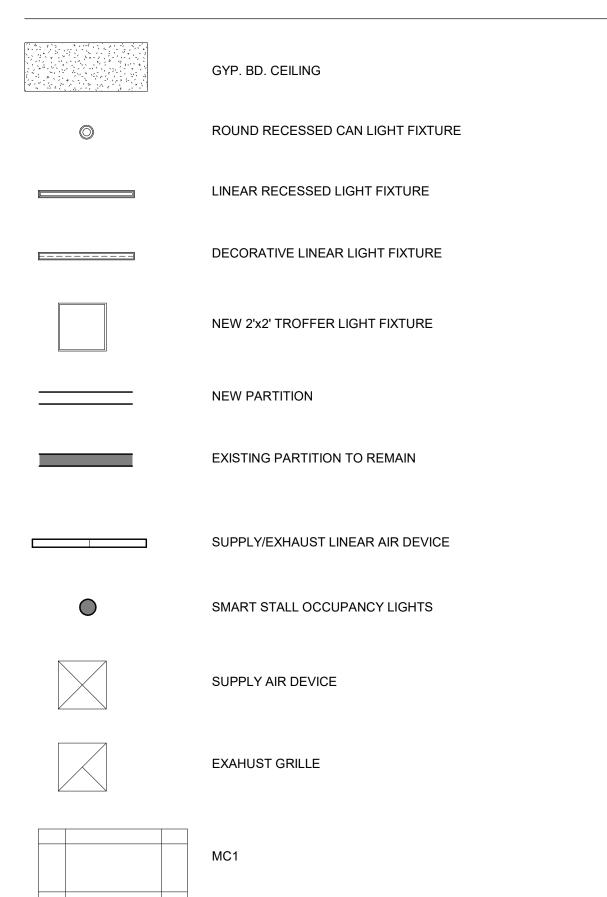
SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - A-141 - 1

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 DISCREPENCIES 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
- ALL FIXTURES, EQUIPMENT, FURNITURE, AND FINISHES TO BE SOUTHWEST AIRLINES STANDARD, U.N.O; VERIFY WITH OWNER

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DESIGNER PROJECT No.:

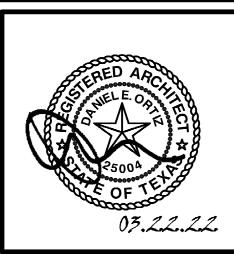
REVISIONS

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KATHERINE DOMINGUEZ HECTOR BERRIOS DANIEL ORTIZ CHECKED BY: **ISSUE DATE: APPROVED BY:** DANIEL ORTIZ

APPROVAL DATE: **HOUSTON AIRPORT SYSTEM**



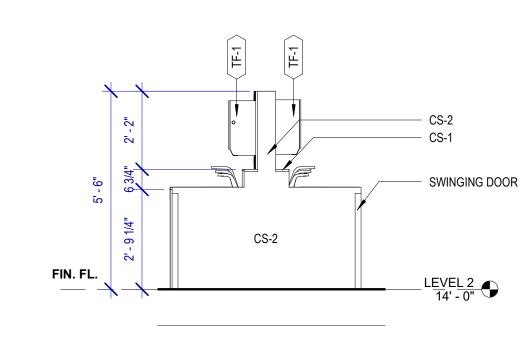


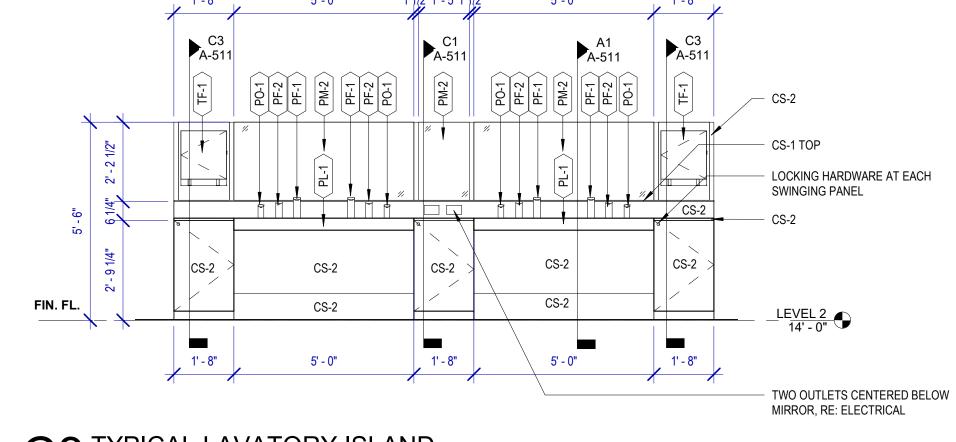
SHEET NAME:
REFLECTED CEILING PLAN - GATE 28-32
RESTROOMS 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - A-142 - 1

CONTINUOUS RECESSED STAINLESS STEEL PANEL , 1' - 6" | 1' - 6" ,10 3/4"

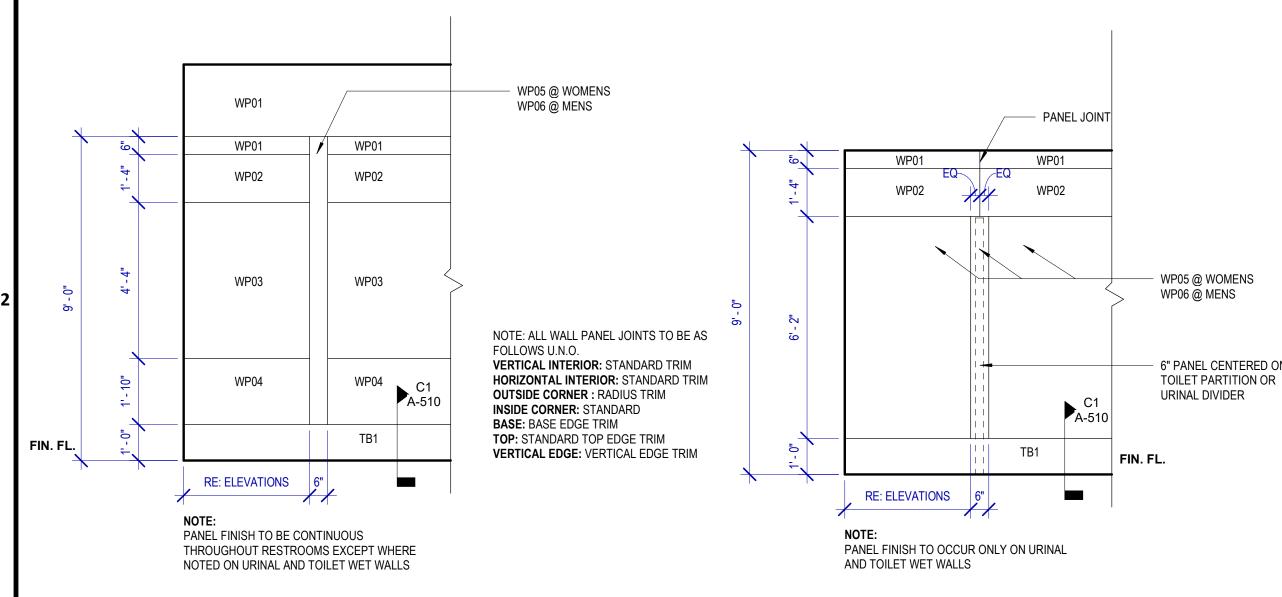


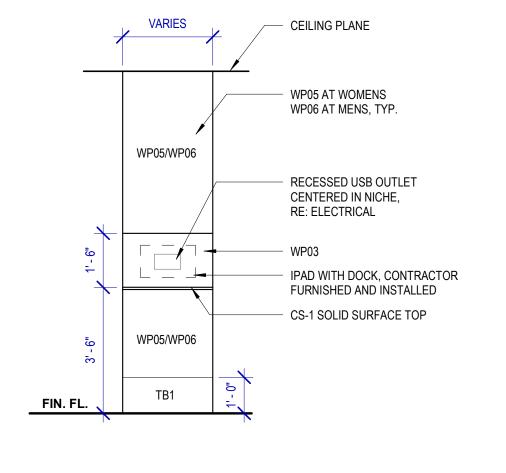


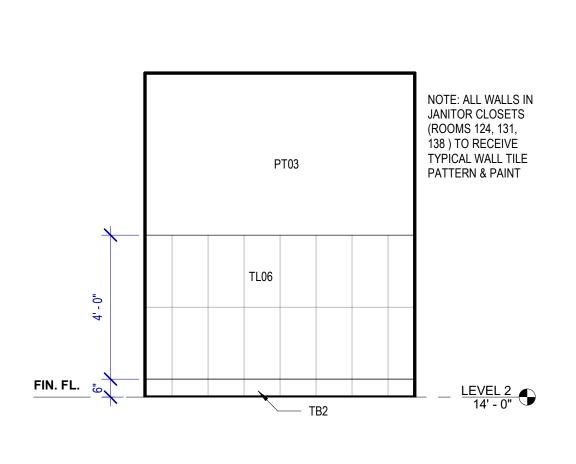




C3 TYPICAL LAVATORY ISLAND SCALE: 3/8" = 1'-0"







A2 TYPICAL WALL PATTERN

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

B2 TYP. WALL PATTERN @ PLUMBING WALL
SCALE: 3/8" = 1'-0"

C2 TYPICAL IPAD STATION ELEVATION

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

D2 TYP. ELEVATION - WALL PATTERN @ JANITOR CLOSET SCALE: 3/8" = 1'-0"

INTERIOR ELEVATIONS NOTES

- 1. 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 NAPKING 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 PARITIONS & 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

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
- PC-4 NOT USED.
- PC-5 NOT USED.
- PE-1 TORK TOILET SEAT COVER DISPENSER 1951001
- PF-1 LOVAIR RIBBON HAND DRYER L-R031
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- PX-1 BOBRICK B-223



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1429.05

REVISIONS

DESIGNER PROJECT No.:

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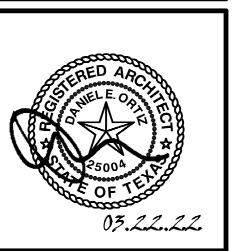
KATHERINE DOMINGUEZ **DESIGN BY: HECTOR BERRIOS DRAWN BY:** DANIEL ORTIZ **CHECKED BY: ISSUE DATE:** 03.22.2022

APPROVAL DATE: 03.22.2022 DIRECTOR

HOUSTON AIRPORT SYSTEM



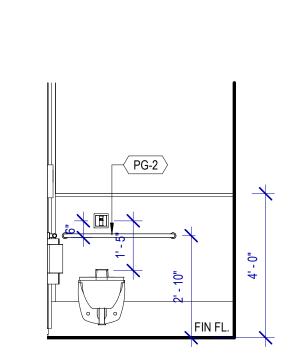
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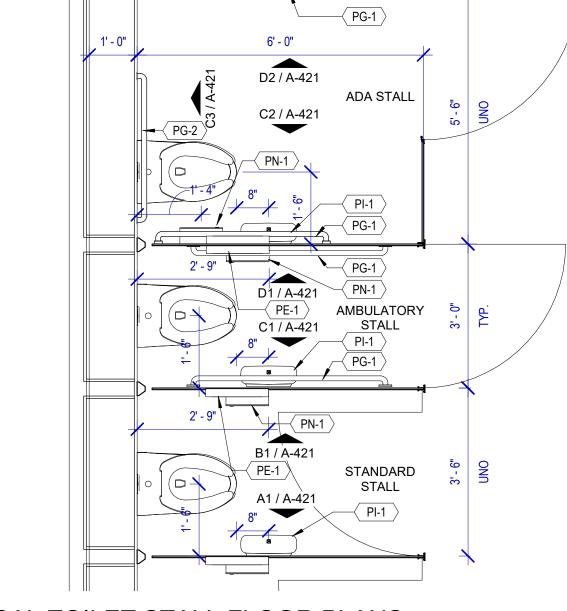
As indicated

DANIEL ORTIZ

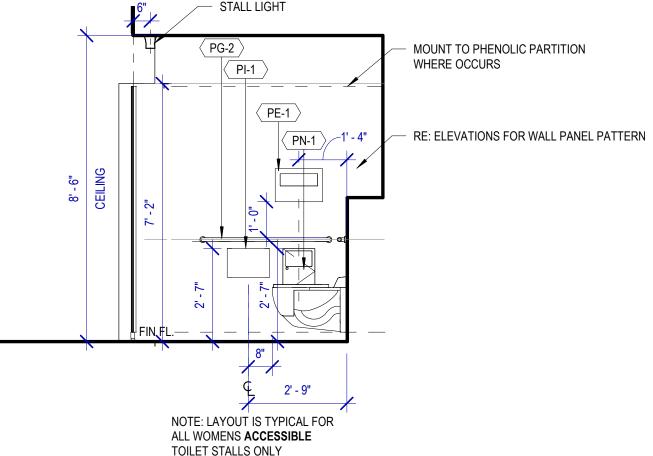
TYPICAL ELEVATIONS & PLANS

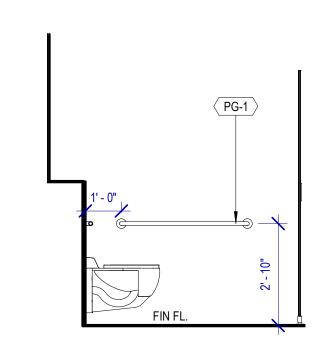


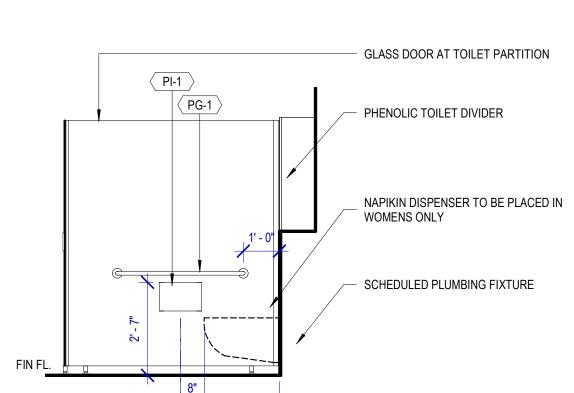
C3 TYPICAL ADA STALL - BACK SCALE: 3/8" = 1'-0"



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







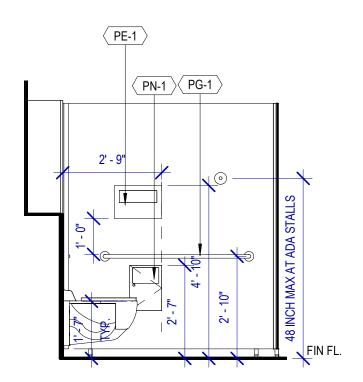
2' - 9"

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

IN WOMEN'S RR

SCHEDULED
PLUMBING FIXTURE

NOTE: LAYOUT IS TYPICAL FOR ALL AMBULATORY STALLS



TOILET ACCESSORIES

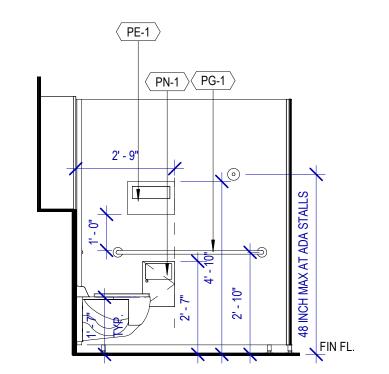
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- PP-3 WASTE RECEPTACLE, 9.2 GALLON SEMI-RECESSED
- PR-1 BOBRICK B-5806X24 STRAIGHT GRAB BAR
- PS-1 NOT USED. TF-1 TORK SURFACE MOUNTED AUTOMATIC
- PAPER TOWEL DISPENSER 461102
- PW-1 TOTO URINAL FLUSH VALVE WITH CHASE TEU3LN
- PZ-1 TOILET PARTITION 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

- 1. 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 NAPKING 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 PARITIONS & 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,



ISSUED FOR BIDDING

DIRECTOR

HOUSTON AIRPORT SYSTEM

7800 Airport Blvd

Houston, TX 77061

800 Sampson St. #104 Houston, TX 77003

HOU RESTROOM RENOVATIONS

PHASE 2

PN209A A.I.P. No.

RDLR Architects

ARCHITECTURE PLANNING INTERIORS

HENDERSON

structural engineers

2603 Augusta, Suite 800 Houston, Texas 77057

713.430.5800 713.430.5888 fax

www.hendersonrogers.com

REVISIONS

DESIGNER PROJECT No.:

PROJECT STATUS:

DESIGN BY:

DRAWN BY:

CHECKED BY:

ISSUE DATE:

APPROVED BY:

APPROVAL DATE:

No. DESCRIPTION

Issued For Bidding

ROGERS

713.868.3121

1429.05

DATE BY

03.22.22 HB

KATHERINE DOMINGUEZ

HECTOR BERRIOS

DANIEL ORTIZ

DANIEL ORTIZ

03.22.2022

03.22.2022

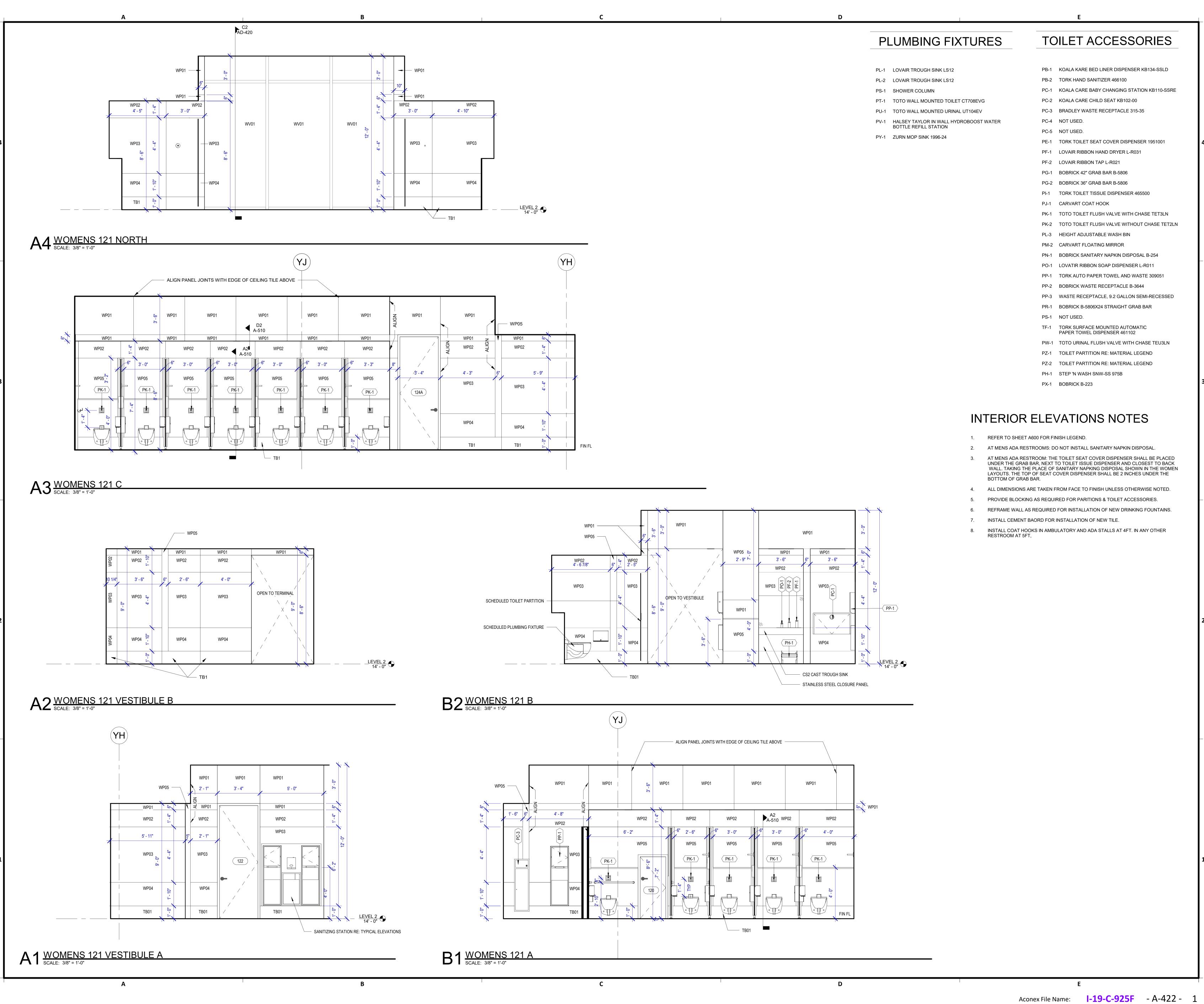
TYPICAL STALL PLANS & ELEVATIONS

As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - A-421 - 1

2'-9"



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KATHERINE DOMINGUEZ **DESIGN BY: HECTOR BERRIOS DRAWN BY:**

DANIEL ORTIZ **CHECKED BY:** 03.22.2022 **ISSUE DATE:** DANIEL ORTIZ **APPROVED BY: APPROVAL DATE:** 03.22.2022

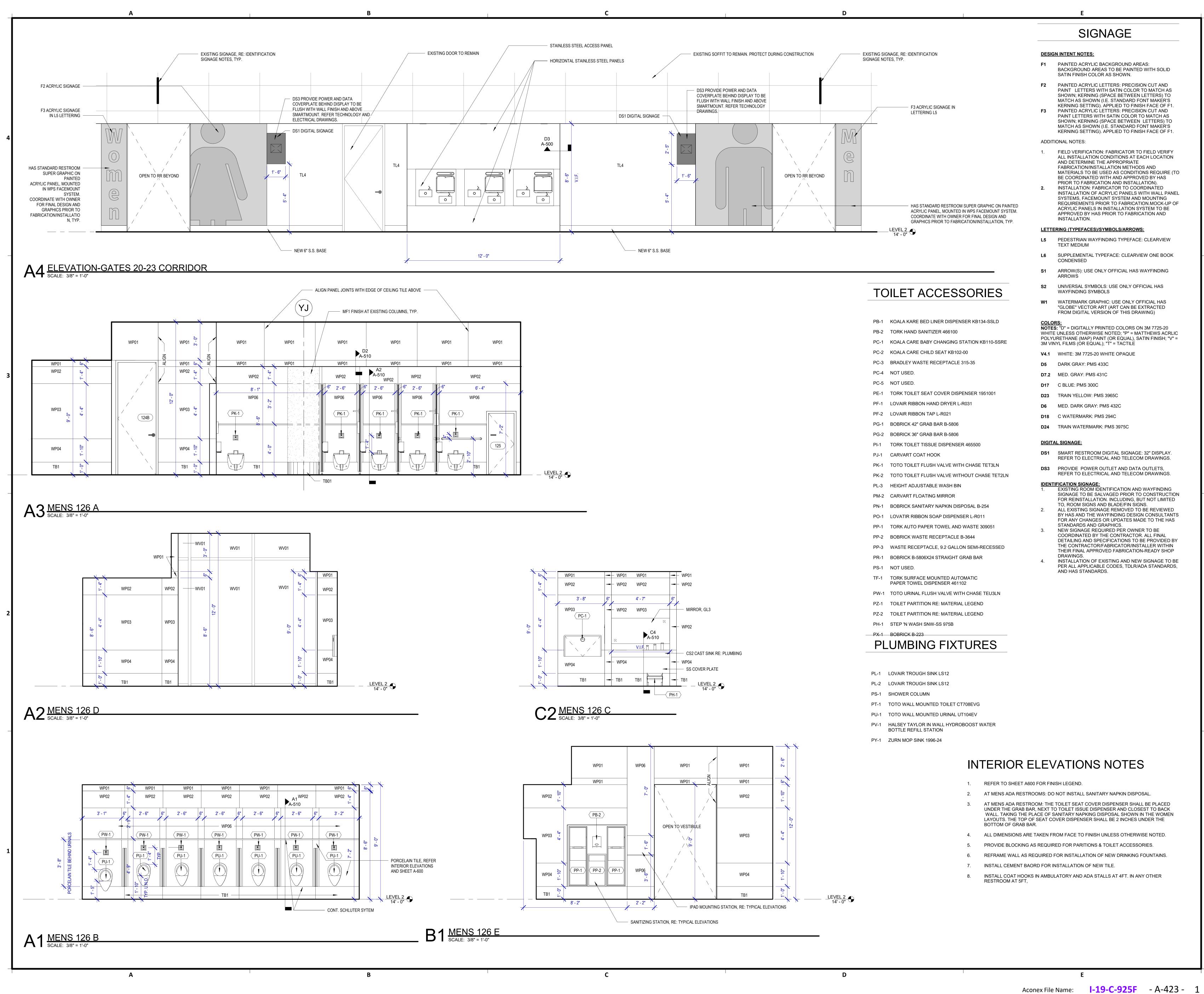
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As indicated

INTERIOR ELEVATIONS GATES 20-23



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> **HOU RESTROOM RENOVATIONS** PHASE 2

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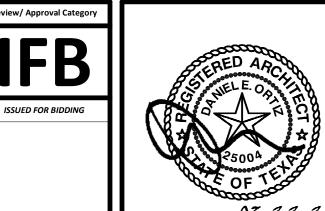
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ISSUE DATE:

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APPROVAL DATE:



DIRECTOR



As indicated

KATHERINE DOMINGUE

HECTOR BERRIOS

DANIEL ORTIZ

DANIEL ORTIZ

03.22.2022

03.22.2022

INTERIOR ELEVATIONS GATES 20-23

D4 JANITOR CLOSET WEST 124
SCALE: 3/8" = 1'-0" B3 JANITOR CLOSET SOUTH 124
SCALE: 3/8" = 1'-0" D3 MENS 126 H SCALE: 3/8" = 1'-0" WP02 3' - 6" 4' - 0" 4' - 4 1/2" WP03 4' - 0" 4' - 0" OPEN TO RESTROOM OPEN TO TERMINAL WP04 WP04 LEVEL 2 14' - 0" B2 MENS 126 G
SCALE: 3/8" = 1'-0" D2 MENS 126 F
SCALE: 3/8" = 1'-0" 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 NAPKING 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 PARITIONS & 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, Aconex File Name: I-19-C-925F - A-424 - 1

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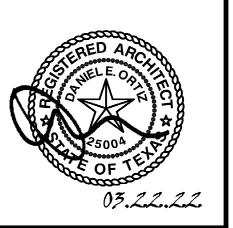
No. DESCRIPTION DATE BY 03.22.22 HB **Issued For Bidding**

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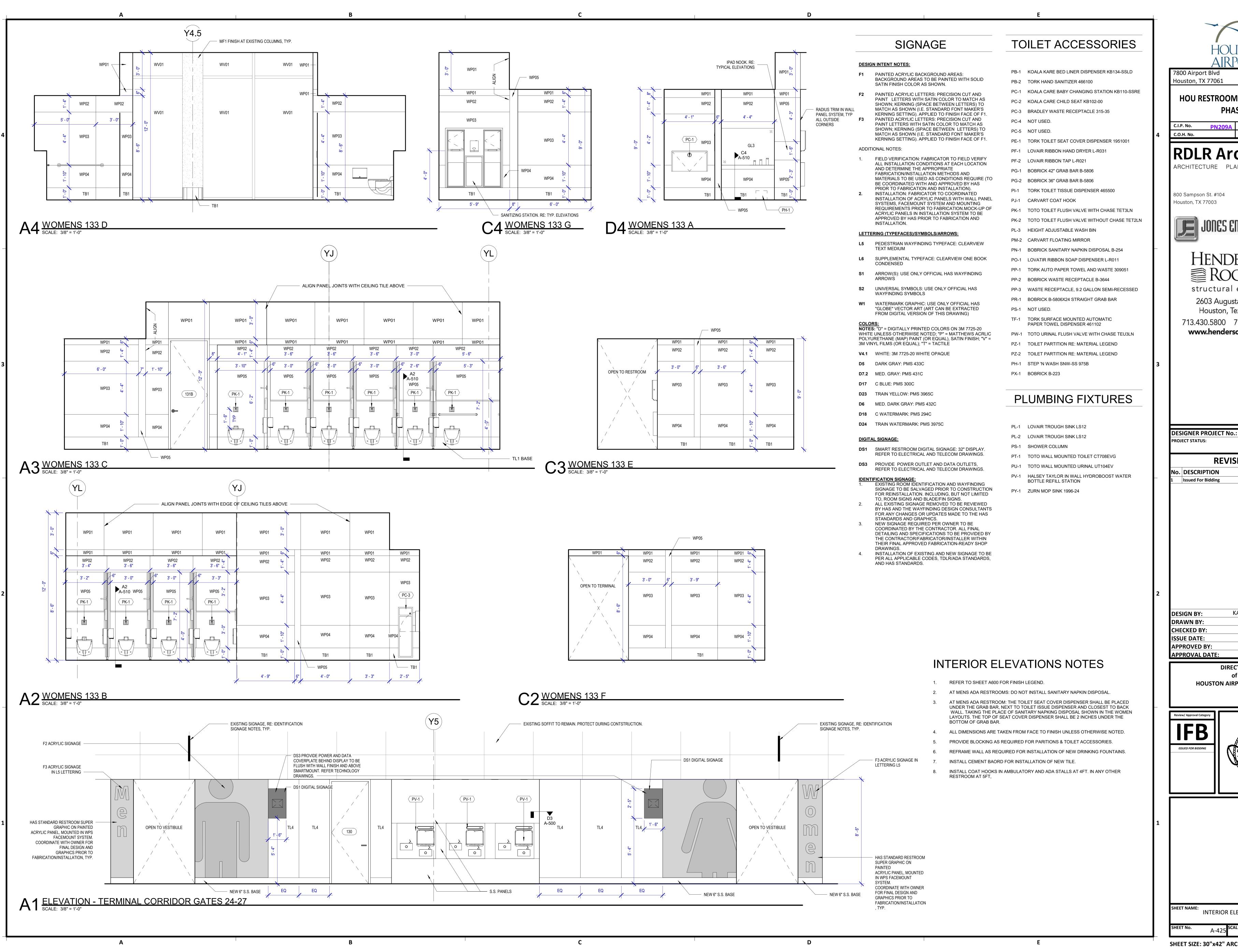


APPROVAL DATE:



03.22.2022

INTERIOR ELEVATIONS GATES 20-23 As indicated



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1429.05

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03.22.2022 **APPROVAL DATE: DIRECTOR**

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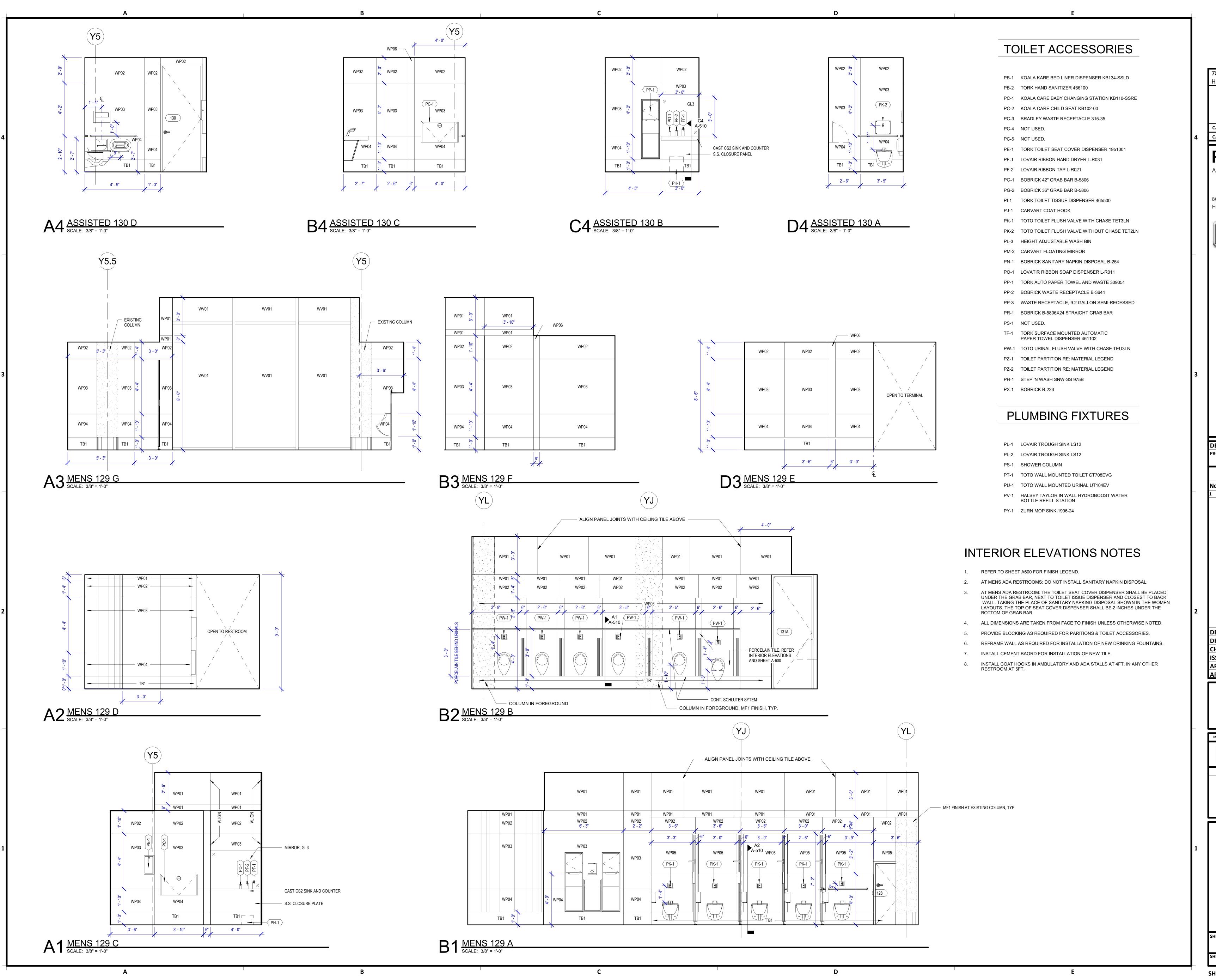
DANIEL ORTIZ

INTERIOR ELEVATIONS GATES 24-2

As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - A-425 - 1



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DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

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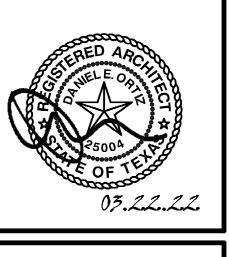
03.22.22 HB **Issued For Bidding**

KATHERINE DOMINGUEZ **DESIGN BY: HECTOR BERRIOS DRAWN BY:** DANIEL ORTIZ

CHECKED BY: ISSUE DATE: 02.11.2022 DANIEL ORTIZ **APPROVED BY: APPROVAL DATE:** 03.22.2022

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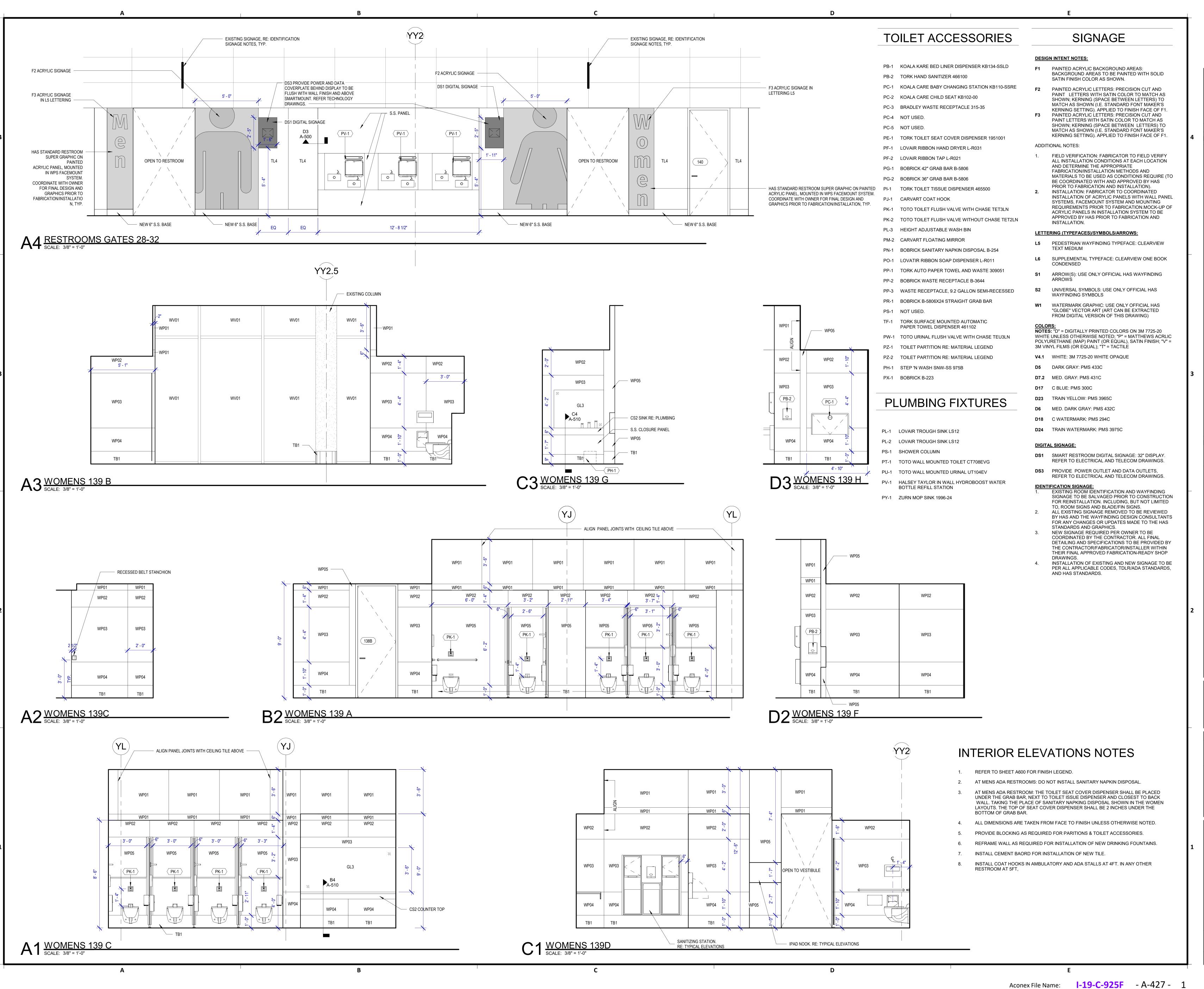




INTERIOR ELEVATIONS GATES 24-2 As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - A-426 - 1



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DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

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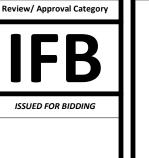
DATE BY No. DESCRIPTION **Issued For Bidding** 03.22.22 HB

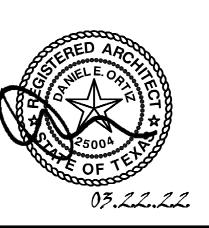
KATHERINE DOMINGUE **DESIGN BY: HECTOR BERRIOS DRAWN BY:** DANIEL ORTIZ **CHECKED BY:** 03.22.2022

DIRECTOR

ISSUE DATE: DANIEL ORTIZ **APPROVED BY: APPROVAL DATE:**

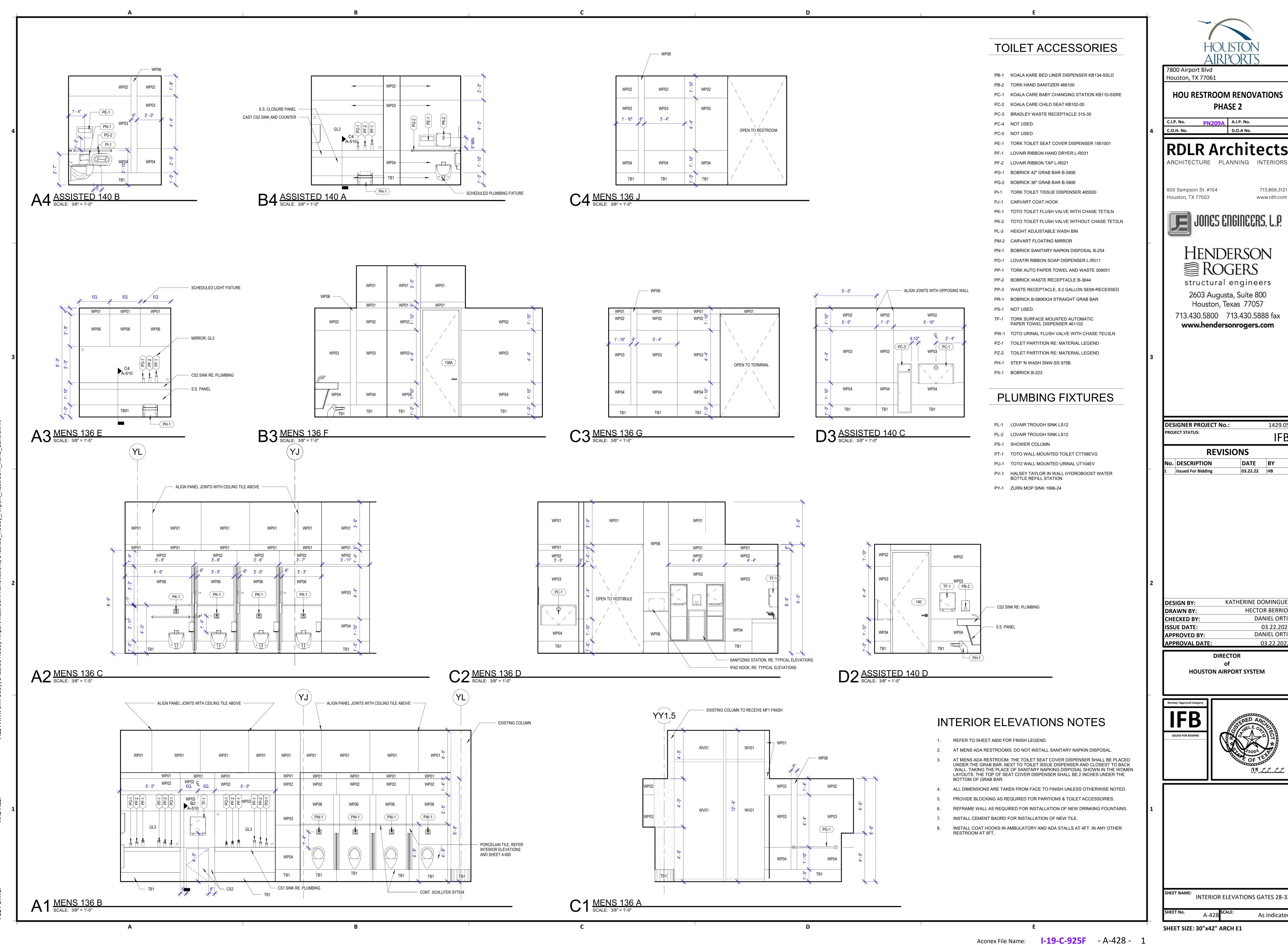
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INTERIOR ELEVATIONS GATES 28-32 As indicated



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DATE BY 03.22.22 HB

KATHERINE DOMINGUE **HECTOR BERRIOS** DANIEL ORTIZ

03.22.2022



03.22.2022 DANIEL ORTIZ

As indicated

B1 PLAN DETAIL @ EXISTING WINDOW MULLION 3
SCALE: 3" = 1'-0"

NEW THERMAL INSULATION $\,-\,$

EXISTING METAL STUD FRAMING AND INSULATION TO REMAIN.

EXISTING WINDOW MULLION TO REMAIN

AND PROTECT DURING CONSTRUCTION

INFILL NEW EXTERIOR CURTAIN WALL WITH

NEW GLAZING PANEL, REF. ARCH DWGS.

PROVIDE PARTITION GAP CLOSURES -

PROVIDE FACTORY APPLIED GASKET

WITH ADHESIVE ON BOTH SIDES

3IN x 3IN METAL FRAMING CORNER ANGLE

NEW 3 5/8" METAL STUD

NEW 5/8" GYP BD TYPE X

NEW WALL PANESYSTEM

MULLION MATE (SERIES 40)

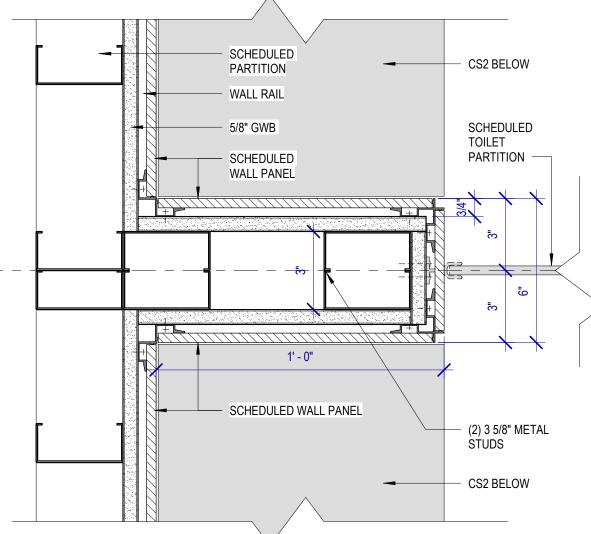
C1 PLAN DETAIL @ EXISTING WINDOW MULLION 2
SCALE: 3" = 1'-0"

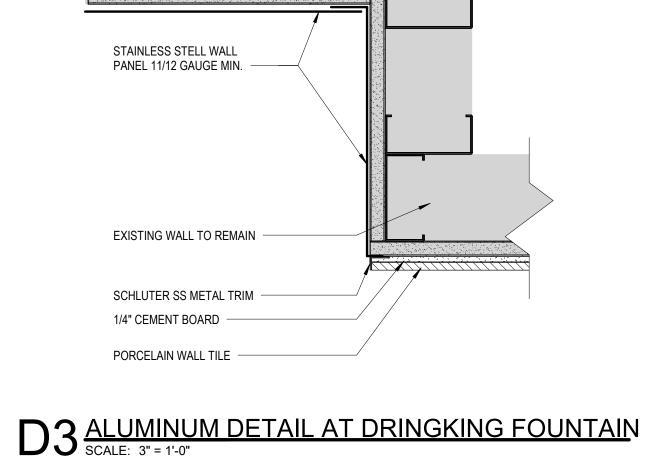
D1 PLAN DETAIL @ EXISTING WINDOW MULLION SCALE: 3" = 1'-0"

AND PROTECT DURING CONSTRUCTION INFILL NEW EXTERIOR CURTAIN WALL WITH NEW GLAZING PANEL, REF. ARCH DWGS. PROVIDE PARTITION GAP CLOSURES -MULLION MATE (SERIES 40) PROVIDE FACTORY APPLIED GASKET WITH ADHESIVE ON BOTH SIDES - 3IN x 3IN METAL FRAMING CORNER ANGLE NEW 3 5/8" METAL STUD NEW 5/8" GYP BD TYPE X EXISTING METAL STUD FRAMING AND INSULATION TO REMAIN.

INFILL NEW EXTERIOR - EXISTING WINDOW MULLION TO REMAIN **CURTAIN WALL WITH** NEW GLAZING PANEL, REF. ARCH DWGS. —— EXISTING WINDOW MULLION TO REMAIN AND PROTECT DURING CONSTRUCTION -CAULK -NEW WALL PANEL NEW 3 5/8" METAL STUD -NEW 5/8" GYP BD TYPE X EXISTING METAL STUD FRAMING AND INSULATION TO REMAIN.

D2 PLAN DETAIL @ SHELVING BEHIND THE URINAL/WC SCALE: 3" = 1'-0"





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> **HOU RESTROOM RENOVATIONS** PHASE 2

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

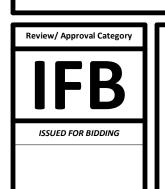
REVISIONS

DATE BY No. DESCRIPTION 03.22.22 HB **Issued For Bidding**

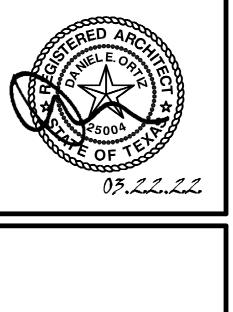
KATHERINE DOMINGUEZ **DESIGN BY:** HECTOR BERRIOS **DRAWN BY:** DANIEL ORTIZ CHECKED BY: **ISSUE DATE:** 03.22.2022

APPROVED BY: DANIEL ORTIZ 03.22.2022 **APPROVAL DATE:** DIRECTOR

HOUSTON AIRPORT SYSTEM





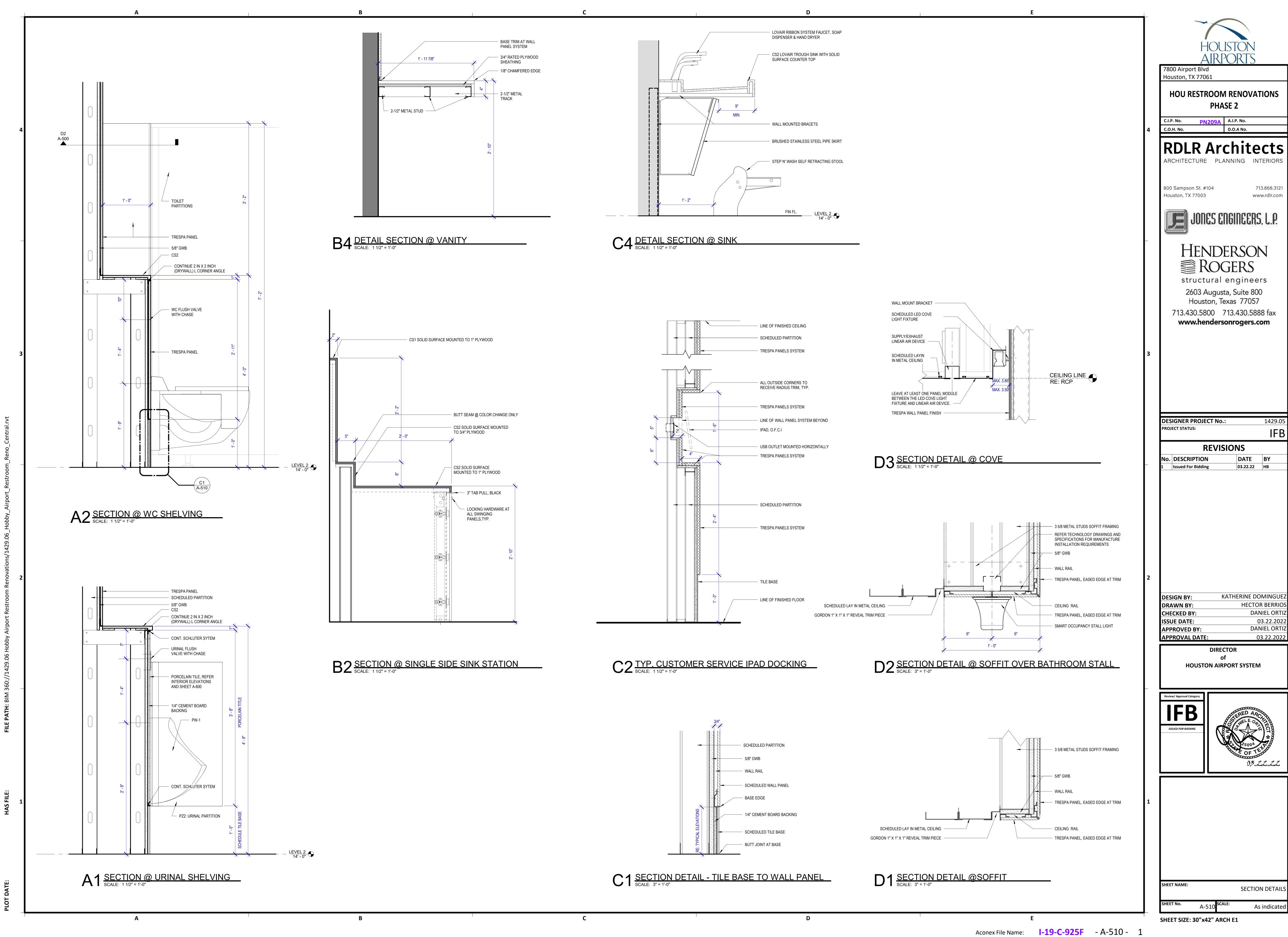


3" = 1'-0"

PLAN DETAILS

SHEET SIZE: 30"x42" ARCH E1

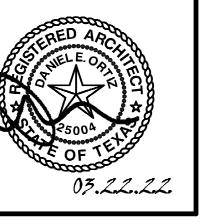
Aconex File Name: I-19-C-925F - A-500 - 1



7800 Airport Blvd Houston, TX 77061 SOLID SURFACE MOUNTED TO 3/4" PLYWOOD SOLID SURFACE MOUNTED TO 1" PLYWOOD **HOU RESTROOM RENOVATIONS** PHASE 2 PN209A A.I.P. No. COORDINATE EQUIPMENT/POWER CUTOUTS AS REQ. - BUTT SEAM @ COLOR CHANGE ONLY ARCHITECTURE PLANNING INTERIORS SOLID SURFACE MOUNTED TO 3/4" PLYWOOD 800 Sampson St. #104 LINE OF FINISHED COUNTER BEYOND 2' - 0" Houston, TX 77003 www.rdlr.com SOLID SURFACE MOUNTED TO 1" PLYWOOD <u></u> REFER STRUCTURAL DRAWINGS FOR FRAMIN DETAILS. structural engineers WHITE LINTER APPLIED TO TINTERIOR FACE OF DOOR 2603 Augusta, Suite 800 Houston, Texas 77057 CLEAR 713.430.5800 713.430.5888 fax www.hendersonrogers.com HOLD PLYWOOD SUBSTRATE 1/2" ABOVE FINISHED FLOOR TOP OF FIN. FL **DESIGNER PROJECT No.:** 1429.05 C3 SECTION - TRASH UNIT SCALE: 1 1/2" = 1'-0" **PROJECT STATUS: REVISIONS** DATE BY No. DESCRIPTION 03.22.22 HB **Issued For Bidding** - SOLID SURFACE MOUNTED TO 1" PLYWOOD SOLID SURFACE MOUNTED TO 3/4" PLYWOOD SOLID SURFACE MOUNTED TO 1" PLYWOOD SOLID SURFACE MOUNTED TO 3/4" PLYWOOD COORDINATE EQUIPMENT/POWER CUTOUTS AS REQ. BUTT SEAM @ COLOR CHANGE ONLY REFER STRUCTURAL DRAWINGS FOR FRAMIN DETAILS. **DESIGN BY:** SOLID SURFACE MOUNTED TO 3/4" PLYWOOD **DRAWN BY:** LINE OF FINISHED COUNTER BEYOND -CHECKED BY: BUTT SEAM @ COLOR CHANGE ONLY, TYP. NEW STEEL CHANNEL, RE: STRUCTURAL 2' - 0" 2' - 0" **ISSUE DATE:** SOLID SURFACE MOUNTED TO 1/2" PLYWOOD **APPROVED BY:** APPROVAL DATE: 03.22.2022 SOLID SURFACE MOUNTED TO 1" PLYWOOD DIRECTOR - - - - - - - - - - - - - - - - ' - - - ■ 3" TAB PULL, BLACK **HOUSTON AIRPORT SYSTEM** LOCKING HARDWARE AT ALL SWINGING PANELS, TYP. WHITE LINTER APPLIED TO INTERIOR FACE OF DOOR PRE-FABRICATED SINK UNITS & ADA PANELS CLEAR CLEAR SOLID SURFACE MOUNTED TO 1" PLYWOOD - REFER STRUCTURAL DRAWINGS FOR FRAMIN SOLID SURFACE MOUNTED TO 1/2" AC FIR PLYWOOD HOLD PLYWOOD SUBSTRATE 1/2" ABOVE FINISHED FLOOR TOP OF FIN. FL 1' - 3" A 1 SECTION - PRE-FAB SINK UNIT SCALE: 1 1/2" = 1'-0" C1 SECTION - ISLAND SWING PANEL SCALE: 1 1/2" = 1'-0" SECTION DETAILS - LAVATORY STATION 1 1/2" = 1'-0" SHEET SIZE: 30"x42" ARCH E1

713.868.3121

KATHERINE DOMINGUEZ HECTOR BERRIOS DANIEL ORTIZ 03.22.2022 DANIEL ORTIZ



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 HARDWARE NOTES

RF-RIXSON

NO-NORTON

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

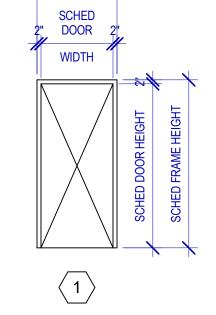
DOOR SCHEDULE DOOR OPENING DETAILS FIRE GLAZIN HARDWARE SHOL TYPE THICKNESS | WIDTH | HEIGHT | MATERIAL FINISH | RATING | G TYPE | GROUP | TYPE HEIGHT | MARK REMARKS **ROOM NAME** HEAD PLUMBING CHASE C1/A-610 C2/A-610 1 9' - 0" 3' - 4" HM PT2 122 STORAGE 3' - 0" 8' - 10" НМ C1/A-610 C2/A-610 PROVIDE 1 ROOM SIGN REF. A-604 PROVIDE 1 ROOM SIGN REF. A-604 1 9' - 0" 3' - 4" HM PT2 C1/A-610 C2/A-610 JANITOR B 0' - 1 3/4" 3' - 0" 8' - 10" 124B JANITOR B 0' - 1 3/4" 3' - 0" 8' - 10" 2.0 1 9'-0" 3'-4" HM PT2 C1/A-610 C2/A-610 PROVIDE 1 ROOM SIGN REF. A-604 HM PLUMBING CHASE B 0' - 1 3/4" 2' - 0" 4' - 10" 1.0 1 5' - 0" 2' - 4" HM PT2 C1/A-610 C2/A-610 PLUMBING CHASE 1.0 1 5' - 0" 2' - 4" HM PT2 C1/A-610 C2/A-610 5.0 1 8' - 6" 3' - 4" HM PT2 B 0' - 1 3/4" PROVIDE 1 ROOM SIGN REF. A-604 ASSISTED RESTROOM 3' - 0" 8' - 4" C1/A-610 C2/A-610 1 9' - 0" 3' - 4" HM PT2 PROVIDE 1 ROOM SIGN REF. A-604 131A JANITOR B 0' - 1 3/4" 3' - 0" 8' - 10" C1/A-610 C2/A-610 131B PROVIDE 1 ROOM SIGN REF. A-604 JANITOR 3' - 0" 8' - 10" 1 9' - 0" 3' - 4" HM PT2 C1/A-610 C2/A-610 138A PROVIDE 1 ROOM SIGN REF. A-604 JANITOR B 0' - 1 3/4" 3' - 0" 8' - 10" HM PT2 1 9' - 0" 3' - 4" HM PT2 C1/A-610 C2/A-610 138B C1/A-610 C2/A-610 PROVIDE 1 ROOM SIGN REF. A-604 JANITOR B 0' - 1 3/4" 3' - 0" 8' - 10" HM PT2 2.0 1 9'-0" 3'-4" HM PT2 PROVIDE 1 ROOM SIGN REF. A-604 140 ASSISTED RESTROOM B 0' - 1 3/4" 3' - 0" 8' - 4" HM PT2 C1/A-610 C2/A-610 5.0 | 1 | 8' - 6" | 3' - 4" | HM | PT2

SCHED DOOR WIDTH

SCHED FRAME WIDTH

DOOR SCHEDULE REMARKS LEGEND

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

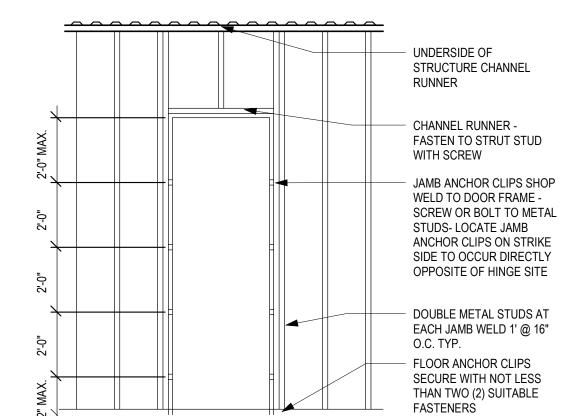


FRAME TYPE ELEVATIONS

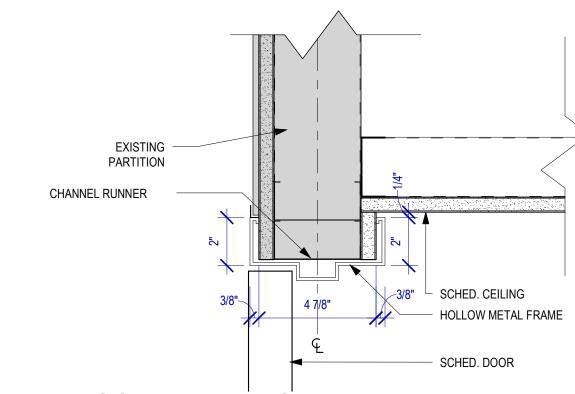
DOOR TYPE ELEVATIONS

TYPE "A"

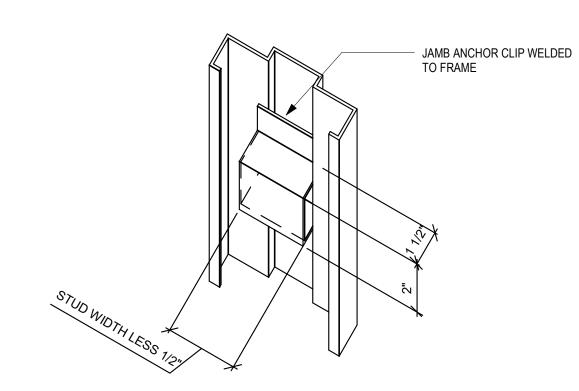
HOLLOW METAL



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

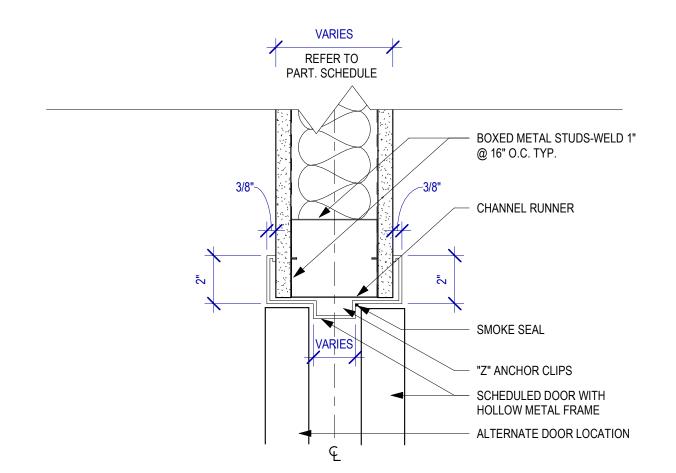


B3 DOOR HEAD AT GYP WALL



TYPICAL JAMB METAL STUD FRAMING

SCALE: 3" = 1'-0"



ALTERNATE DOOR

LOCATION

ACOUSTICAL **INSULATION AS** REQUIRED PER WALL

STUDS-WELD 1 @ 16" O.C. TYP.

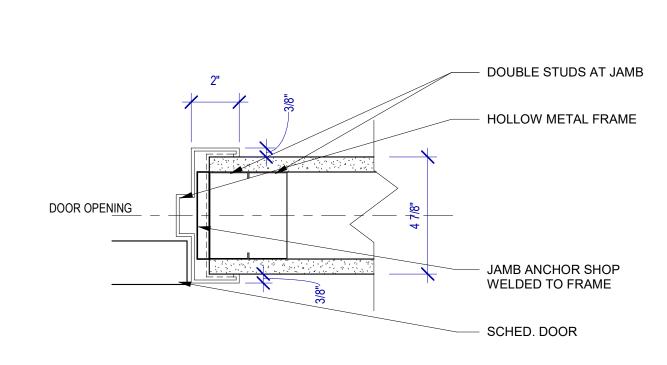
SMOKE SEAL

"Z" ANCHOR CLIPS

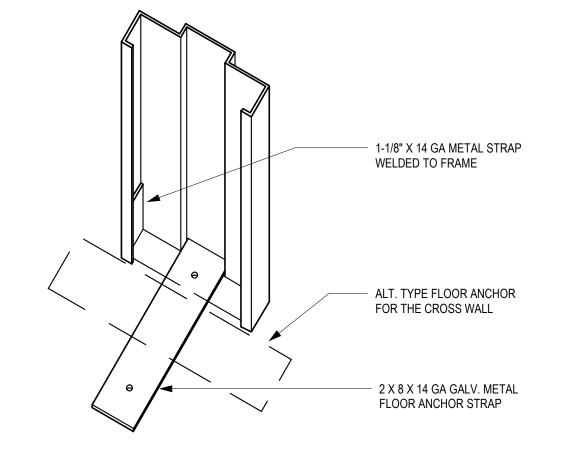
SCHEDULED DOOR WITH HOLLOW METAL FRAME

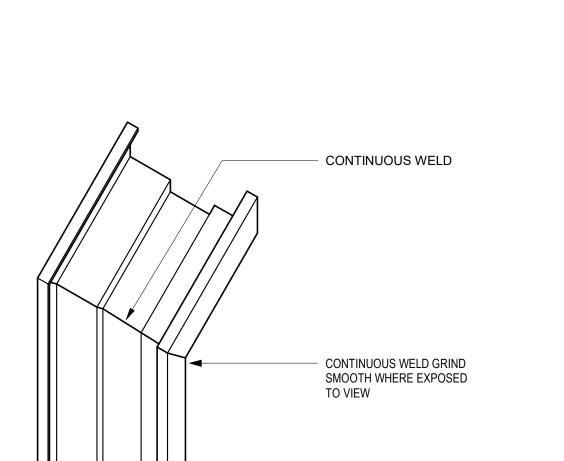
A2 DOOR HEAD W/ ACOUS SEAL SCALE: 3" = 1'-0"

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



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





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

MATERIAL & FINISH KEY

DIVISION 3 - CONCRETE

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

DIVISION 5 - METALS

METAL PANELS STAINLESS STEEL WALL PANEL. 11/12 GAUGE MIN.

DIVISION 8 - OPENINGS

GL3 6MM SILVERED FLAT GLASS MIRROR. SECURE TO WALL WITH CONSTRUCTION

DIVISION 9 - FINISHES

SOLID SURFACE

CS1 CORIAN - SOLID SURFACE - GLACIER WHITE

CS2 CORIAN - SOLID SURFACE - CARBON CONCRETE

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.

PANEL SIZE: 3 1/2" LINEAR PANELS MATERIAL: 0.040" THICK ALUMINUM WITH 1" UPTURNS PERF SPEC: R116-764ST23 (SEE PERF DETAIL MC-1/MC-2 THIS SHEET) FINISH: EXPOSED SURFACÈS 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 TURN-KEY CEILING PANEL SIZE: 6" LINEAR PANELS

MATERIAL: 0.040" THICK ALUMINUM WITH 1" UPTURNS PERF SPEC: R116-532DG12 (SEE PERF DETAIL MC-3 THIS SHEET) FINISH: EXPOSED SURFACE'S 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

WALL FINISH

WP01
TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK -K05.0.0 PURE

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

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

REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL

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

TRESPA - TOPLAB VERTICAL WPS FACEMOUNT SYSTEM - 10MM THK - K17.3.5

REMARKS: VARYING SIZES, RE: TYP. ELEVATIONS FOR SIZES AND INSTALL

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

PT01 TBD - MATTE - CEILING WHITE - STANDARD CEILING

REMARKS: ALL NEW AND EXISTING DOORS

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

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

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

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

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

DALTILE VOLUME 1.0 - GLAZED PORELAIN TILE - 12 X 24 FLOOR TILE - STEREO GREY

DALTILE VOLUME 1.0 - GLAZED PORELAIN TILE - 12 X 24 WALL TILE -SONIC WHITE CROSSVILLE LAMINAM - GAUGED PORELAIN TILE - 1M X 3M X 5.6MM THK - SALE REMARKS: CUT IN FIELD 12"H. ALIGN GROUT JOINTS W/ FLOOR TILE, MIN.

DALTILE VOLUME 1.0 - GLAZED PORELAIN TILE - COVE BASE 6 X 12 - STEREO GREY

THK PER MFR, COLOR SELECTED BY MFR FULL RANGE

DIVISION 13 – SPECIALTIES

TOILET PARTITIONS

MANUFACTURER - MODEL - COLOR

PZ1
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.

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

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

PT02
SHERWIN WILLIAMS - DIRECT TO METAL/SEMI-GLOSS - TRICORN BLACK

PT03 SHERWIN WILLIAMS - SW 9165 GOSSAMER VEIL - EGGSHELL FINISH

HOU RESTROOM RENOVATIONS

PHASE 2

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DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

REVISIONS

No. DESCRIPTION DATE BY **Issued For Bidding** 03.22.22 HB

KATHERINE DOMINGUE **DESIGN BY: HECTOR BERRIOS DRAWN BY:** DANIEL ORTIZ **CHECKED BY: ISSUE DATE:** 03.22.2022 DANIEL ORTIZ **APPROVED BY:**

> **DIRECTOR HOUSTON AIRPORT SYSTEM**



APPROVAL DATE:



03.22.2022

MATERIAL LEGEND, DOOR SCHEDULE AN' As indicated

ANIMAL RELIEF AREA

STORAGE

A 1 FINISH PLAN - GATE 20-23 RESTROOMS

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

FINISHES GENERAL NOTES

- 1. ALL WALL/CEILING MATERIALS SHALL MEET FLAME SPREAD CLASS REQUIRED PER IBC **TABLE 803.9**
- REFER TO SHEET G-002 & G-003 FOR GENERAL NOTES, KEYS AND
- INTERIOR FLOOR FINISHES ARE REFERENCES FROM THE MATERIAL & FINISH KEY OR FROM THE FLOOR PLANS
- REFER TO INTERIOR ELEVATION SHEETS FOR ADDITIONAL FINISH INFORMATION.
- REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND SPECIFICATIONS.
- 6. ALL WALLS TO RECEIVE BASE 'TB1' U.N.O
- REFER TO FINISH FLOOR PLANS FOR TRANSITIONS.
- ALL GYPSUM BOARD CEILINGS TO MATCH ADJACENT EXISTING PAINT
- FINISH PER HAS STANDARDS PROVIDE 10% ATTIC STOCK ON ALL FINISHES
- ALL FINISHES TO BE VERIFIED W/ OWNER PRIOR TO PROCURMENT
- 11. PATCH AND REPAIR FINISHES AS REQUIRED DUE TO DEMOLITION WORK AND INSTALLATION OF SIGNAGE & FIXTURES
- WHERE MULTIPLE MATERIALS, FINISHES &/OR VARIATIONS IN ELEVATION ARE SPECIFIED FOR A SINGLE SURFACE, REFERENCE INFORMATION IS LOCATED ON THE PLANS AND ELEVATIONS.
- 13. WHERE GYPSUM BOARD LAYERS DIFFER BETWEEN BETWEEN TWO ADJOINING WALLS. MAINTAIN A CONTINUOUS FINISH FACE OF WALL.

ALL GWB CEILINGS TO RECEIVE PT01 PAINT

- ALL JANITOR CLOSET WALLS TO RECEIVE (1) COAT PRIMER AND (2) COATS PAINT PT03 ABOVE TILE WAINSCOTT, EGGSHELL FINISH U.N.O.
- ALL PAINT TO BE APPLIED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE.
- ALL NEW & EXISTING DOORS TO RECEIVE PT02 PAINT.

TRESPA PANELS, REF. FINISH

SCHEDULED COVE BASE TILE,

ALIGN STONE THRESHOLD

WITH CORRIDOR SIDE OF

- NEW PORCELAIN TILE, REF.

SCHED AND DRAWINGS

STONE THRESHOLD, REF.

TILING SPECIFICATIONS

EXISTING FLOOR FINISH

TILING SPECIFICATION, FINISH

REF. FINISH SCHED.

FACE WALL

TO REMAIN

TL3 A1^rL1

TL2 TL1

TL3 TL1

TL2 TL1

TL3 TL1

TL2 TL1

TL2

SCHED.

- LARGE FORMAT TILE TO BE INSTALLED OVER A FRACTURE MEMBRANE PER SPECIFICATIONS.
- ALL SLABS ON GRADE TO RECEIVE WATER PROOFING AND ARDEX FOR SMOOTH FINISH IF INSTALLING IMPERMEABLE MATERIAL AS
- ALL CHANGES IN FLOOR MATERIAL BETWEEN ROOMS SHALL OCCUR AT THE CENTERLINE OF THE DOOR U.N.O.
- GROUT COLOR TO MATCH ADJACENT STONE / TILES. ALL STONE / TILE SURFACES TO BE FLUSH. NO ABRUPT LIPS OR EDGES. SUBMIT SAMPLES TO BE APPROVED BY ARCHITECT.
- PROVIDE SOFT JOINT AT ALL TILE INSIDE CORNER CONDITIONS AND 90 DEGREE CORNERS AT FLOOR TILE CORNER. COLOR TO MATCH
- 6. TILE BASE GROUT LINES TO ALIGN W/ WALL PANEL JOINTS.
- 7. ALL WET AREAS TO RECEIVE EPOXY GROUT.

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> **HOU RESTROOM RENOVATIONS** PHASE 2

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DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

REVISIONS

03.22.22 HB

DATE BY No. DESCRIPTION

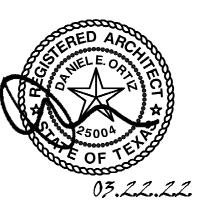
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KATHERINE DOMINGUEZ **DESIGN BY: HECTOR BERRIOS DRAWN BY:** DANIEL ORTIZ **CHECKED BY:**

ISSUE DATE: 03.22.2022 DANIEL ORTIZ APPROVED BY: APPROVAL DATE: 03.22.2022

> DIRECTOR **HOUSTON AIRPORT SYSTEM**





As indicated

FINISH PLAN GATES 20-23

FINISHES GENERAL NOTES

- 1. ALL WALL/CEILING MATERIALS SHALL MEET FLAME SPREAD CLASS REQUIRED PER IBC **TABLE 803.9**
- REFER TO SHEET G-002 & G-003 FOR GENERAL NOTES, KEYS AND
- INTERIOR FLOOR FINISHES ARE REFERENCES FROM THE MATERIAL & FINISH KEY OR FROM THE FLOOR PLANS
- REFER TO INTERIOR ELEVATION SHEETS FOR ADDITIONAL FINISH
- REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND SPECIFICATIONS.
- 6. ALL WALLS TO RECEIVE BASE 'TB1' U.N.O
- REFER TO FINISH FLOOR PLANS FOR TRANSITIONS.
- ALL GYPSUM BOARD CEILINGS TO MATCH ADJACENT EXISTING PAINT FINISH PER HAS STANDARDS
- PROVIDE 10% ATTIC STOCK ON ALL FINISHES
- 10. ALL FINISHES TO BE VERIFIED W/ OWNER PRIOR TO PROCURMENT
- 11. PATCH AND REPAIR FINISHES AS REQUIRED DUE TO DEMOLITION WORK AND INSTALLATION OF SIGNAGE & FIXTURES
- 12. WHERE MULTIPLE MATERIALS, FINISHES &/OR VARIATIONS IN ELEVATION ARE SPECIFIED FOR A SINGLE SURFACE, REFERENCE INFORMATION IS LOCATED ON THE PLANS AND ELEVATIONS.
- 13. WHERE GYPSUM BOARD LAYERS DIFFER BETWEEN BETWEEN TWO ADJOINING WALLS, MAINTAIN A CONTINUOUS FINISH FACE OF WALL.
- 1. ALL GWB CEILINGS TO RECEIVE PT01 PAINT
- ALL JANITOR CLOSET WALLS TO RECEIVE (1) COAT PRIMER AND (2) COATS PAINT PT03 ABOVE TILE WAINSCOTT, EGGSHELL FINISH U.N.O.
- ALL PAINT TO BE APPLIED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE.
- 4. ALL NEW & EXISTING DOORS TO RECEIVE PT02 PAINT.

- LARGE FORMAT TILE TO BE INSTALLED OVER A FRACTURE MEMBRANE PER SPECIFICATIONS.
- ALL SLABS ON GRADE TO RECEIVE WATER PROOFING AND ARDEX FOR SMOOTH FINISH IF INSTALLING IMPERMEABLE MATERIAL AS SCHEDULED.

ALL CHANGES IN FLOOR MATERIAL BETWEEN ROOMS SHALL OCCUR AT

- THE CENTERLINE OF THE DOOR U.N.O.
- GROUT COLOR TO MATCH ADJACENT STONE / TILES. ALL STONE / TILE SURFACES TO BE FLUSH. NO ABRUPT LIPS OR EDGES. SUBMIT SAMPLES TO BE APPROVED BY ARCHITECT.
- PROVIDE SOFT JOINT AT ALL TILE INSIDE CORNER CONDITIONS AND 90 DEGREE CORNERS AT FLOOR TILE CORNER. COLOR TO MATCH SCHEDULED GROUT.
- 6. TILE BASE GROUT LINES TO ALIGN W/ WALL PANEL JOINTS.
- ALL WET AREAS TO RECEIVE EPOXY GROUT.



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

APPROVAL DATE: DIRECTOR

HOUSTON AIRPORT SYSTEM



APPROVED BY:



DANIEL ORTIZ

FINISH PLAN GATES 24-27

As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - A-602 - 1

FINISHES GENERAL NOTES

- 1. ALL WALL/CEILING MATERIALS SHALL MEET FLAME SPREAD CLASS REQUIRED PER IBC
- 2. REFER TO SHEET G-002 & G-003 FOR GENERAL NOTES, KEYS AND
- INTERIOR FLOOR FINISHES ARE REFERENCES FROM THE MATERIAL & FINISH KEY OR FROM THE FLOOR PLANS

REFER TO INTERIOR ELEVATION SHEETS FOR ADDITIONAL FINISH

- REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND SPECIFICATIONS.
- 6. ALL WALLS TO RECEIVE BASE 'TB1' U.N.O
- 7. REFER TO FINISH FLOOR PLANS FOR TRANSITIONS.
- ALL GYPSUM BOARD CEILINGS TO MATCH ADJACENT EXISTING PAINT FINISH PER HAS STANDARDS
- 9. PROVIDE 10% ATTIC STOCK ON ALL FINISHES
- 10. ALL FINISHES TO BE VERIFIED W/ OWNER PRIOR TO PROCURMENT
- 11. PATCH AND REPAIR FINISHES AS REQUIRED DUE TO DEMOLITION WORK AND INSTALLATION OF SIGNAGE & FIXTURES
- 12. WHERE MULTIPLE MATERIALS, FINISHES &/OR VARIATIONS IN ELEVATION ARE SPECIFIED FOR A SINGLE SURFACE, REFERENCE INFORMATION IS LOCATED ON THE PLANS AND ELEVATIONS.
- 13. WHERE GYPSUM BOARD LAYERS DIFFER BETWEEN BETWEEN TWO ADJOINING WALLS, MAINTAIN A CONTINUOUS FINISH FACE OF WALL.
- ALL GWB CEILINGS TO RECEIVE PT01 PAINT
- ALL JANITOR CLOSET WALLS TO RECEIVE (1) COAT PRIMER AND (2) COATS PAINT PT03 ABOVE TILE WAINSCOTT, EGGSHELL FINISH U.N.O.
- ALL PAINT TO BE APPLIED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE.
- 4. ALL NEW & EXISTING DOORS TO RECEIVE PT02 PAINT.

- LARGE FORMAT TILE TO BE INSTALLED OVER A FRACTURE MEMBRANE PER SPECIFICATIONS.
- ALL SLABS ON GRADE TO RECEIVE WATER PROOFING AND ARDEX FOR SMOOTH FINISH IF INSTALLING IMPERMEABLE MATERIAL AS SCHEDULED.
- ALL CHANGES IN FLOOR MATERIAL BETWEEN ROOMS SHALL OCCUR AT THE CENTERLINE OF THE DOOR U.N.O.
- GROUT COLOR TO MATCH ADJACENT STONE / TILES. ALL STONE / TILE SURFACES TO BE FLUSH. NO ABRUPT LIPS OR EDGES. SUBMIT SAMPLES TO BE APPROVED BY ARCHITECT.
- PROVIDE SOFT JOINT AT ALL TILE INSIDE CORNER CONDITIONS AND 90 DEGREE CORNERS AT FLOOR TILE CORNER. COLOR TO MATCH SCHEDULED GROUT.
- 6. TILE BASE GROUT LINES TO ALIGN W/ WALL PANEL JOINTS.
- 7. ALL WET AREAS TO RECEIVE EPOXY GROUT.



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DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

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APPROVAL DATE: 03.22.2022 DIRECTOR **HOUSTON AIRPORT SYSTEM**





As indicated

FINISH PLAN GATES 28-32

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> **HOU RESTROOM RENOVATIONS** PHASE 2

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RDLR Architects

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

APPROVAL DATE: DIRECTOR **HOUSTON AIRPORT SYSTEM**





ROOM SIGNAGE

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - A-604 -

STRUCTURAL GENERAL NOTES PART IV - DRAWING INTERPRETATION PART I - DESIGN CRITERIA A. DRAWING VIEWS LABELED AS "TYPICAL" A. GENERAL BUILDING CODE PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, OR SCHEDULES THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF LABELED WITH "TYPICAL" AT THE BEGINNING OF THEIR TITLE SHALL APPLY TO ALL THE INTERNATIONAL BUILDING CODE 2012 WITH CITY OF HOUSTON AMENDMENTS. SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY SHOWN. THE APPLICABILITY OF THE CONTENT OF THESE B. DEAD LOADS VIEWS TO LOCATIONS ON THE PLAN CAN BE DETERMINED FROM THE TITLE OF THE VIEWS, SUCH VIEWS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. DECISIONS REGARDING APPLICABILITY OF THESE "TYPICAL" VIEWS SHALL ORIGINAL DESIGN LOADS: FLOORING FINISHES 30 PSF BE DETERMINED BY THE STRUCTURAL ENGINEER. MECH. AND CEILING 15 PSF C. LIVE LOADS PART V - SPECIAL INSPECTIONS DESIGN LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD OR THE CONCENTRATED LOAD LISTED ACTING OVER AN AREA 2.5 FEET SQUARE OR. IN THE CASE OF PARKING GARAGES, 20 SQUARE INCHES, OR STAIR TREADS, 4 SQUARE INCHES. A. QUALITY ASSURANCE AND SPECIAL INSPECTIONS ORIGINAL DESIGN LOADS: OWNER WILL ENGAGE AN INDEPENDENT TESTING AGENCY TO PERFORM THE FOLLOWING 100 PSF FLOOR LIVE LOAD INSPECTION AND TESTING IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1704, 1707, AND 1708. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE NOTES: PRIOR NOTICE FOR COMPLETION OF SUCH. UNIFORM LOAD REQUIRED IS THE SAME AS THE OCCUPANCY SERVED. SPECIAL INSPECTION SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK: DESIGN CONCENTRATED LOAD IS THAT REQUIRED BY ASSUMED EQUIPMENT FIELD WELDING (EXCEPT STEEL STUDS, FURRING CHANNELS, ETC.). HIGH STRENGTH BOLTING. REDUCTION OF LIVE LOADS: EMBEDDED PLATES AND EXPANSION TYPE ANCHOR BOLTS. LIVE LOADS HAVE BEEN REDUCED USING THE STANDARD PROCEDURE COLD FORMED METAL STUD FRAMING. FROM THE BUILDING CODE. NO LIVE LOAD REDUCTION HAS BEEN APPLIED FOR THE ROOF. TEN (10) PERCENT OF DRILLED-IN, EPOXY OR GROUT SET ANCHORS SHALL BE PROOF FOR LIVE LOADS EXCEEDING 100 POUNDS PER SQUARE FOOT, NO TESTED TO TWO (2) TIMES ALLOWABLE TENSION. NOTIFY ARCHITECT/ STRUCTURAL REDUCTION HAS BEEN MADE, EXCEPT THAT THE DESIGN LIVE LOAD ON ENGINEER OF ANY FAILURE SO ADDITIONAL TESTING OF ADJACENT ANCHORS CAN BE MEMBERS SUPPORTING TWO OR MORE FLOORS HAS BEEN REDUCED A MAXIMUM OF 20 PERCENT BUT THE LIVE LOAD IS NOT TO BE LESS THAN THAT CALCULATED BY THE FORMULA ABOVE. 4. QUALITY ASSURANCE PLAN SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1705. PART VI - COLD-FORMED STEEL PART II - STRUCTURAL STEEL A. MATERIAL A. COLD-FORMED STEEL STRUCTURAL MEMBERS HOT ROLLED STRUCTURAL MEMBERS: ALL HOT ROLLED STEEL PLATES, SHAPES, STEEL STRUCTURAL MEMBERS SHALL BE THE SIZE AND GAUGE SHOWN ON THE AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION. DRAWINGS. ALL STUDS, JOISTS AND TRACK SHALL CONFORM TO THE METAL STUD MANUFACTURER'S SSOCIATION SPECIFICATIONS, ICBO NO. 4943. MEMBERS SHALL BE ASTM SPECIFICATION AND GRADE: CLEARLY MARK THE GRADE OF STEEL ON EACH FORMED FROM STEEL HAVING A MINIMUM 33,00 PSI YIELD POINT FOR 25 GAUGE THROUGH PIECE, WITH A DISTINGUISHING MARK VISIBLE FROM FLOOR SURFACES, FOR THE 18 GAGE AND A MINIMUM 50,000 PSI YIELD POINT FOR 16 GAUGE THROUGH 12 GAUGE. PURPOSE OF FIELD INSPECTION OF PROPER GRADE OF STEEL. UNLESS NOTED OTHERWISE ON THE DRAWINGS, STRUCTURAL STEEL SHALL BE AS FOLLOWS: WELDING OF STEEL STRUCTURAL MEMBER CONNECTIONS SHALL BE DONE USING FILLET, HSS: ASTM A 500, GRADE B (FY=46 KSI) BUTT OR SEAM WELDS WITH A MINIMUM 3/32" AWS TYPE 6013 WELDING RODS. ALL WORK CHANNELS AND PLATES: ASTM A36 SHALL BE COMPLETED BY WELDERS QUALIFIED IN WELDING OF SHEET STEEL IN CONNECTION MATERIAL ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3 STANDARDS. ALL CONNECTION MATERIAL, EXCEPT AS NOTED OTHERWISE HEREIN OR ON THE DRAWINGS, INCLUDING BEARING PLATES, GUSSET WELDED OR SCREWED SPLICES SHALL BE USED FOR ALL CONTINUOUS TRACKS. WIRE PLATES, STIFFENER PLATES, FILLER PLATES, ANGLES, ETC. SHALL TYING OF STUD FRAMING COMPONENTS SHALL NOT BE PERMITTED. CONFORM TO ASTM A 36 UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY STRENGTH AND PROVIDED THE RESULTING SIZES ARE STEEL STRUCTURAL STUD WALL BRIDGING SHALL BE SPACED EVENLY AT 5'-0" O.C. MAX. COMPATIBLE WITH THE CONNECTED MEMBERS. WHERE GYPSUM WALL BOARD INSTALLED PER IBC SECTION 2508 DOES NOT CONTINUE OTHER STEEL: ANY OTHER STEEL NOT INDICATED OTHERWISE SHALL CONFORM TO ASTM A 992 OR ASTM A 572, GRADE 50, EXCEPT PLATES AND ANGLES THAT SHALL BE ASTM A 36. WEB PUNCH-OUTS SHOULD BE COORDINATED WITH BRACING AND UTILITY REQUIREMENTS. WEB PUNCH-OUTS OR WEB OPENINGS SHOULD NOT BE LOCATED AT B. CONNECTIONS STUD OR JOIST BEARING POINTS. 1. IF INCLUDED, REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. STEEL STRUCTURAL STUD TRACK OF THE SAME GAUGE AS THE STUDS SHALL BE USED AT THE TOP AND BOTTOM OF ALL STUD WALLS. STUDS SHALL SIT FLAT AGAINST THE WEB OF C. STRUCTURAL BOLTS AND THREADED FASTENERS THE STUD TRACK AND BE ATTACHED WITH 1-#8 x 1/2" SCREW EACH SIDE OF EACH STUD, UNLESS NOTED OTHERWISE. A 325 BOLTS: ALL BOLTS IN STRUCTURAL CONNECTIONS SHALL CONFORM TO ASTM A 325 TYPE 1, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. SCREWS SHALL BE SELF-DRILLING AND TYPE S-12, ASTM C-954, EXCEPT THAT TYPE S, ASTM C-1002, MAY BE USED FOR 20 GAUGE OR 22 GAUGE MATERIAL ONLY. SCREWS SHALL WELDING BE 3/8" TO 1/2" LONGER THAN TOTAL MATERIAL THICKNESS. UNLESS NOTED OTHERWISE, ELECTRODES FOR WELDING SHALL CONFORM TO E70XX (SMAW), F7XX-EXXX (SAW), ER70S-X (GMAW), OR E7XT-X (FCAW). PART III - MISCELLANEOUS A. CONTRACT DOCUMENTS IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. DRAWING CONFLICTS THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS. C. CONFLICTS IN STRUCTURAL REQUIREMENTS WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN. **EXISTING CONDITIONS** THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY WORK SHOWN ON THE DRAWINGS IS NEW, UNLESS NOTED AS EXISTING. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM EXISTING CONSTRUCTION DOCUMENTS AND LIMITED SITE OBSERVATION. THESE DRAWINGS OF EXISTING CONSTRUCTION ARE AVAILABLE FOR CONTRACTOR USE. HOWEVER, THE AVAILABLE DRAWINGS OF EXISTING CONSTRUCTION ARE NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT INFORMATION. DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. IF ANY ARCHITECTURAL, STRUCTURAL, OR MEP MEMBERS NOT DESIGNATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL OBTAINED PRIOR TO REMOVAL OF THOSE MEMBERS. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW THE INSTALLATION OF NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HIS ENGINEER. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AND DUCT WORK PRIOR TO THE START OF CONSTRUCTION AND TAKE CARE TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE ARCHITECT. E. CONTRACTOR SUBSTITUTIONS ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE APPROVED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED: A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC REPORT IS SUBMITTED IN ACCORDANCE WITH DIVISION 00/01 ON SUBSTITUTIONS WITH THE REQUEST. THE ICC-ESR (EVALUATION SERVICE REPORT) THAT IS SUBMITTED MUST REFERENCE THE BUILDING CODE UNDER WHICH THE PROJECT

> ICC REPORTS THAT HAVE BEEN DISCONTINUED AT THE TIME OF PRODUCT INSTALLATION WILL NOT BE ACCEPTED.

SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.

7800 Airport Blvd Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

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

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

REVISIONS

No. DESCRIPTION DATE BY **Issued For Bidding** 03.22.2022 H+R

P. MUZUMDAR **DESIGN BY:** R. RODRIGUEZ DRAWN BY: P. MUZUMDAR CHECKED BY: P. MUZUMDAR **APPROVED BY:** APPROVAL DATE: 03/22/2022

> DIRECTOR HOUSTON AIRPORT SYSTEM

Review/ Approval Category





SHEET NAME: **GENERAL NOTES**

S-000 SCALE:

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: **I-19-C-925F** - S-000 - 1

7800 Airport Blvd Houston, TX 77061 **PROJECT STATUS:** No. DESCRIPTION _____ OVERALL FLOOR PLAN - LEVEL 2

SCALE: 1/64" = 1'-0"

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DESIGNER PROJECT No.: 1429.05 **REVISIONS**

DATE BY 03.22.2022 H+R **Issued For Bidding**

P. MUZUMDAR **DESIGN BY:** R. RODRIGUEZ DRAWN BY: P. MUZUMDAR **CHECKED BY: ISSUE DATE: APPROVED BY:** P. MUZUMDAR APPROVAL DATE:

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OVERALL FLOOR PLAN - LEVEL 2 1/64" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: **I-19-C-925F** - S-100 - 1

PLAN NOTES: GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION OF ANY STRUCTURAL OR ARCHITECTURAL COMPONENTS. DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING STRUCTURE SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. CORES AND OPENINGS FOR NEW PLUMBING FIXTURES MUST ONLY BE LOCATED WITHIN THE PAN SLABS, <u>NOT</u> THROUGH BEAMS, JOISTS OR COLUMNS. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONJUSTIONS TO LEVELS ACCEPTABLE TO THE ARCHITECT. LEVEL EXISTING SLAB AS REQUIRED TO FACILITATE PLACEMENT OF NEW TILE AND DRAIN LOCATIONS. USE SIKA LEVEL - 125 OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY LEVELING MATERIAL IS COMPATIBLE WITH TILE GROUT BEFORE PURCHASING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF WORK AND PREPARE SLAB IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL VERIFY LEVELING MATERIAL HAS REACHED MOISTURE CONTENT SUITABLE FOR PLACEMENT OF FLOOR COVERING BEFORE STARTING FINISH WORK. No. DESCRIPTION EXISTING CONCRETE \S-410/ EXISTING CONCRETE PAN JOIST FLOOR SYSTEM PARTIAL FLOOR FRAMING PLAN - GATE 20-23 RESTROOMS

SCALE: 1/4" = 1'-0" Aconex File Name: **I-19-C-925F** - S-101 - 1



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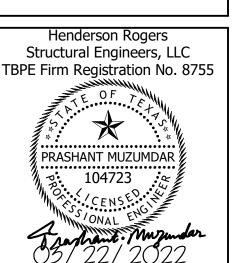
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GNER PROJECT No.:	1429.05	
CT STATUS:	IFB	
REVISIONS		

Issued For Bidding 03.22.2022 H+R

P. MUZUMDAR **DESIGN BY:** R. RODRIGUEZ P. MUZUMDAR P. MUZUMDAR **APPROVED BY:** APPROVAL DATE:

HOUSTON AIRPORT SYSTEM



SHEET NAME:
PARTIAL FLOOR FRAMING PLAN - GATE 20-23

PLAN NOTES: GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION OF ANY STRUCTURAL OR ARCHITECTURAL COMPONENTS. DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING STRUCTURE SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. CORES AND OPENINGS FOR NEW PLUMBING FIXTURES MUST ONLY BE LOCATED WITHIN THE PAN SLABS, <u>NOT</u> THROUGH BEAMS, JOISTS OR COLUMNS. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE ARCHITECT. Y5.5 EXISTING CONCRETE LEVEL EXISTING SLAB AS REQUIRED TO FACILITATE PLACEMENT OF NEW TILE AND DRAIN LOCATIONS. USE SIKA LEVEL - 125 OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY LEVELING MATERIAL IS COMPATIBLE WITH TILE GROUT BEFORE PURCHASING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF WORK AND PREPARE SLAB IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL VERIFY LEVELING MATERIAL HAS REACHED MOISTURE CONTENT SUITABLE FOR PLACEMENT OF FLOOR COVERING BEFORE STARTING FINISH WORK. EXISTING CONCRETE PAN JOIST FLOOR SYSTEM Aconex File Name: **I-19-C-925F** - S-102 - 1

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

No. DESCRIPTION DATE BY 03.22.2022 H+R **Issued For Bidding**

P. MUZUMDAR **DESIGN BY:** R. RODRIGUEZ DRAWN BY: P. MUZUMDAR **CHECKED BY: ISSUE DATE:** P. MUZUMDAR **APPROVED BY:** 03/22/2022 **APPROVAL DATE:**

HOUSTON AIRPORT SYSTEM

Review/ Approval Category ISSUED FOR BIDDING



SHEET NAME:
PARTIAL FLOOR FRAMING PLAN - GATE 24-27

PLAN NOTES: GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION OF ANY STRUCTURAL OR ARCHITECTURAL COMPONENTS. DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING STRUCTURE SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. CORES AND OPENINGS FOR NEW PLUMBING FIXTURES MUST ONLY BE LOCATED WITHIN THE PAN SLABS, <u>NOT</u> THROUGH BEAMS, JOISTS OR COLUMNS. 3. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE ARCHITECT. **YY1.5** YY2 EXISTING CONCRETE COLUMNS LEVEL EXISTING SLAB AS REQUIRED TO FACILITATE PLACEMENT OF NEW TILE AND DRAIN LOCATIONS. USE SIKA LEVEL - 125 OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY LEVELING MATERIAL IS COMPATIBLE WITH TILE GROUT BEFORE PURCHASING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF WORK AND PREPARE SLAB IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL VERIFY LEVELING MATERIAL HAS REACHED MOISTURE CONTENT SUITABLE FOR PLACEMENT OF FLOOR COVERING BEFORE STARTING FINISH WORK. ISSUED FOR BIDDING EXISTING CONCRETE PAN >-JOIST FLOOR SYSTEM PARTIAL FLOOR FRAMING PLAN - GATE 28-32 RESTROOMS

SCALE: 1/4" = 1'-0" Aconex File Name: **I-19-C-925F** - S-103 - 1

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HOUSTON AIRPORT SYSTEM

Review/ Approval Category

Henderson Rogers Structural Engineers, LLC TBPE Firm Registration No. 8755 PRASHANT MUZUMDAR

SHEET NAME:
PARTIAL FLOOR FRAMING PLAN - GATE 28-32 RESTROOMS

7800 Airport Blvd Houston, TX 77061 ISSUED FOR BIDDING OVERALL FLOOR PLAN - LEVEL 3

SCALE: 1/64" = 1'-0"

HOU RESTROOM RENOVATIONS PHASE 2

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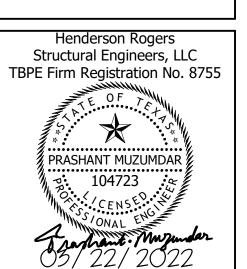
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DESIGNER PROJECT No.: PROJECT STATUS: **REVISIONS**

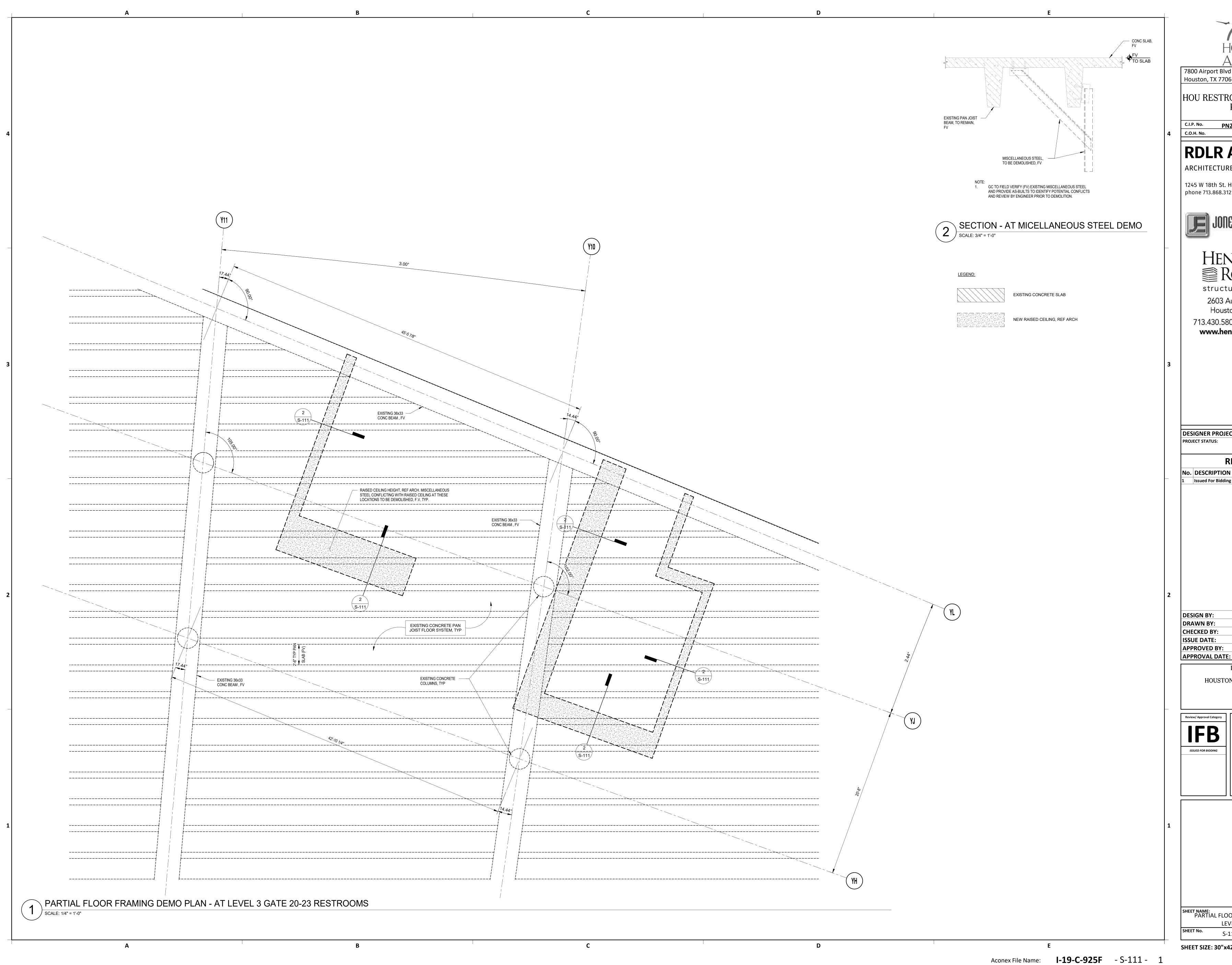
No. DESCRIPTION DATE BY 03.22.2022 H+R **Issued For Bidding**

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> DIRECTOR of HOUSTON AIRPORT SYSTEM



OVERALL FLOOR PLAN - LEVEL 3 1/64" = 1'-0"





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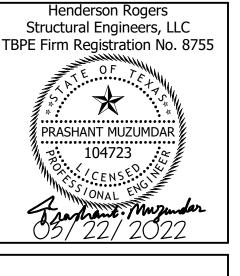
REVISIONS

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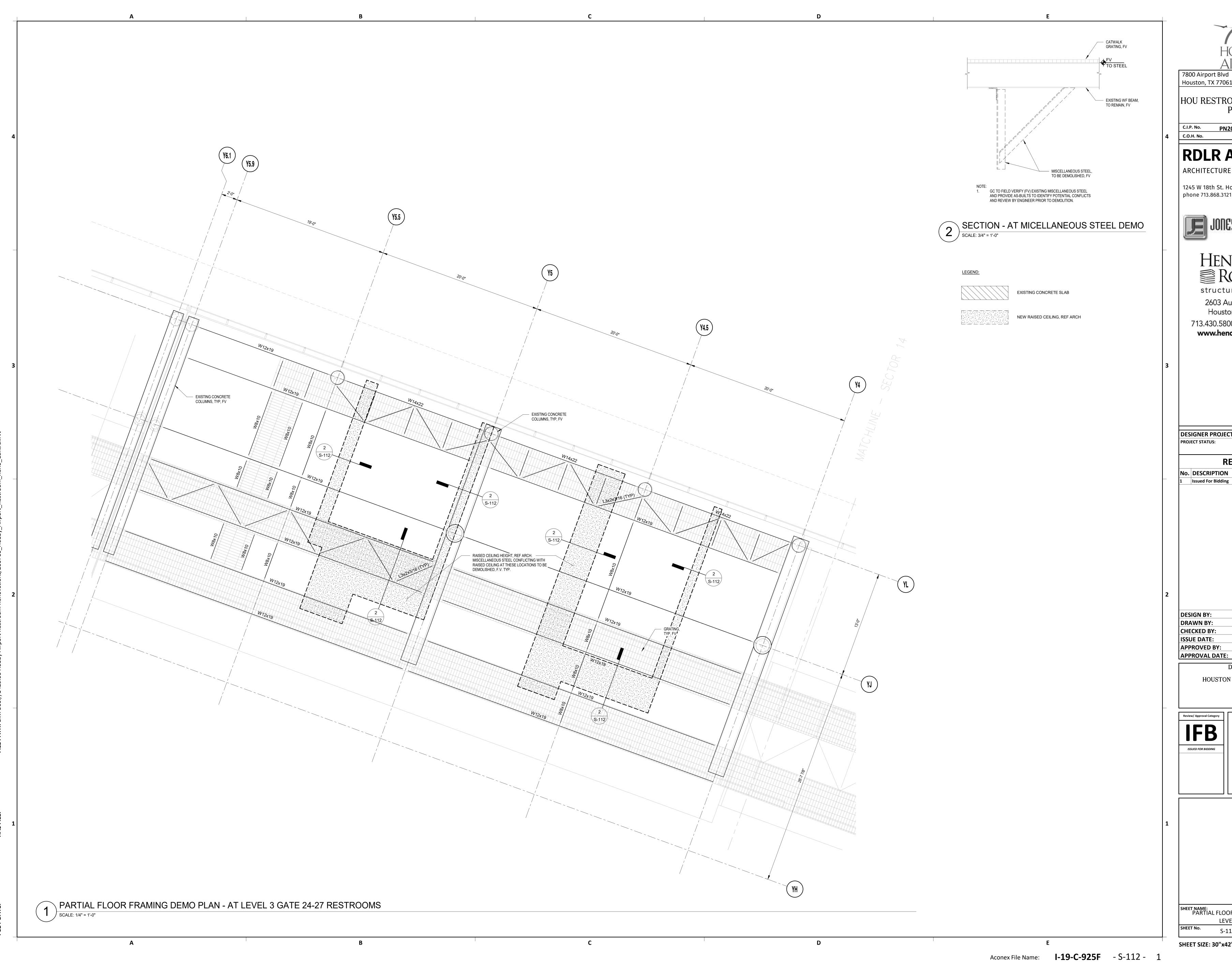
P. MUZUMDAR **DESIGN BY:** R. RODRIGUEZ P. MUZUMDAR P. MUZUMDAR **APPROVED BY:** 03/22/2022

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SHEET NAME:
PARTIAL FLOOR FRAMING DEMO PLAN - AT LEVEL 3 GATE 20-23 RESTROOMS



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

DATE BY

03.22.2022 H+R **Issued For Bidding**

P. MUZUMDAR **DESIGN BY:** R. RODRIGUEZ **DRAWN BY:** P. MUZUMDAR **CHECKED BY: ISSUE DATE:** P. MUZUMDAR **APPROVED BY:**

HOUSTON AIRPORT SYSTEM

Review/ Approval Category

Henderson Rogers Structural Engineers, LLC TBPE Firm Registration No. 8755 PRASHANT MUZUMDAR

03/22/2022

SHEET NAME:
PARTIAL FLOOR FRAMING DEMO PLAN - AT LEVEL 3 GATE 24-27 RESTROOMS

LEGEND: EXISTING CONCRETE SLAB NEW RAISED CEILING, REF ARCH YY2 - EXISTING CONCRETE COLUMNS, TYP, FV S-112 EXISTING 24X24 — CONCRETE BEAM, FV, TYP - GRATING, TYP, FV APPROVAL DATE: PARTIAL FLOOR FRAMING DEMO PLAN - AT LEVEL 3 GATE 28-32 RESTROOMS

7800 Airport Blvd Houston, TX 77061

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

DATE BY No. DESCRIPTION 03.22.2022 H+R **Issued For Bidding**

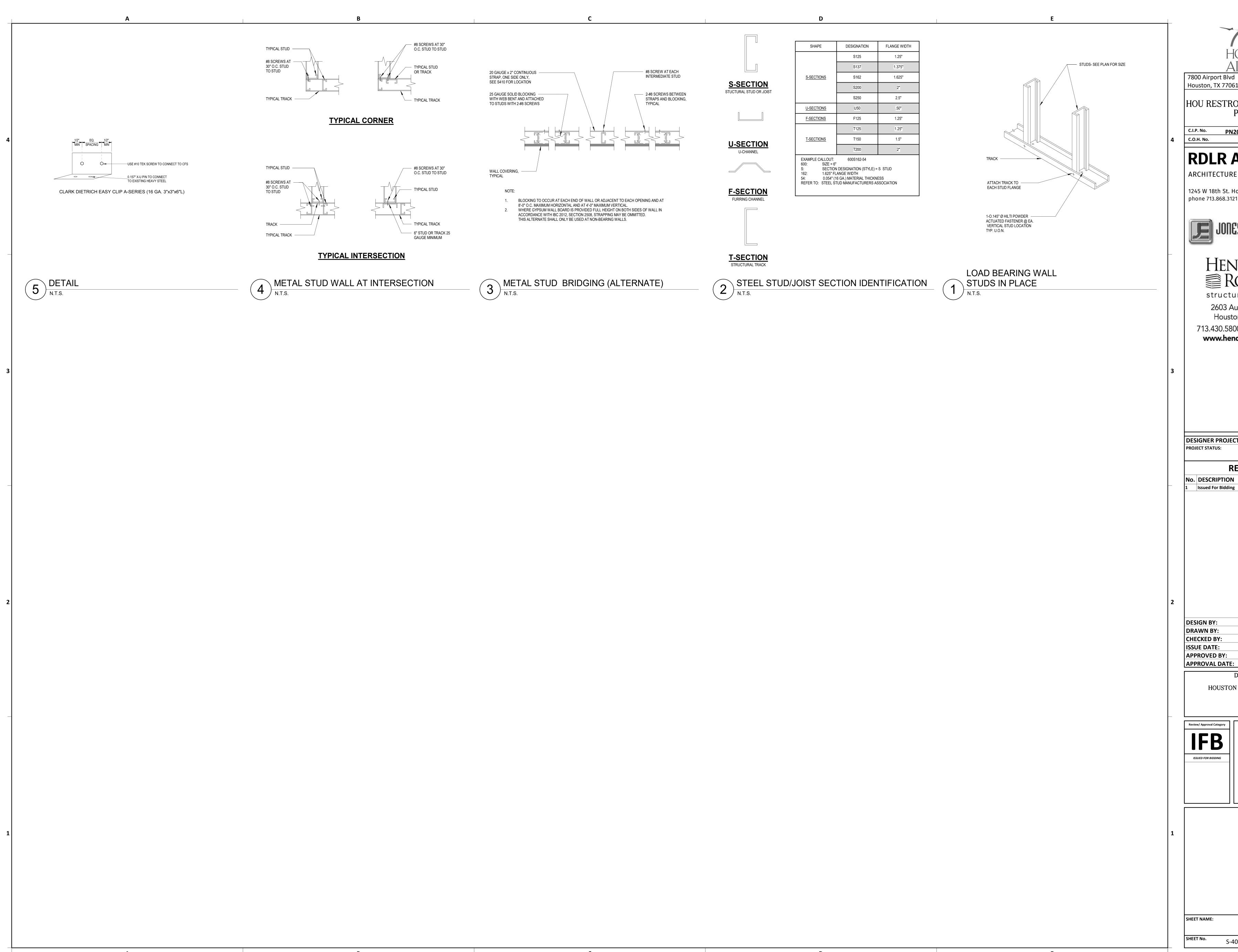
P. MUZUMDAR **DESIGN BY:** R. RODRIGUEZ DRAWN BY: P. MUZUMDAR **CHECKED BY: ISSUE DATE:** P. MUZUMDAR **APPROVED BY:** 03/22/2022

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SHEET NAME:
PARTIAL FLOOR FRAMING DEMO PLAN - AT LEVEL 3 GATE 28-32 RESTROOMS



Houston, TX 77061

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DESIGNER PROJECT No.: REVISIONS

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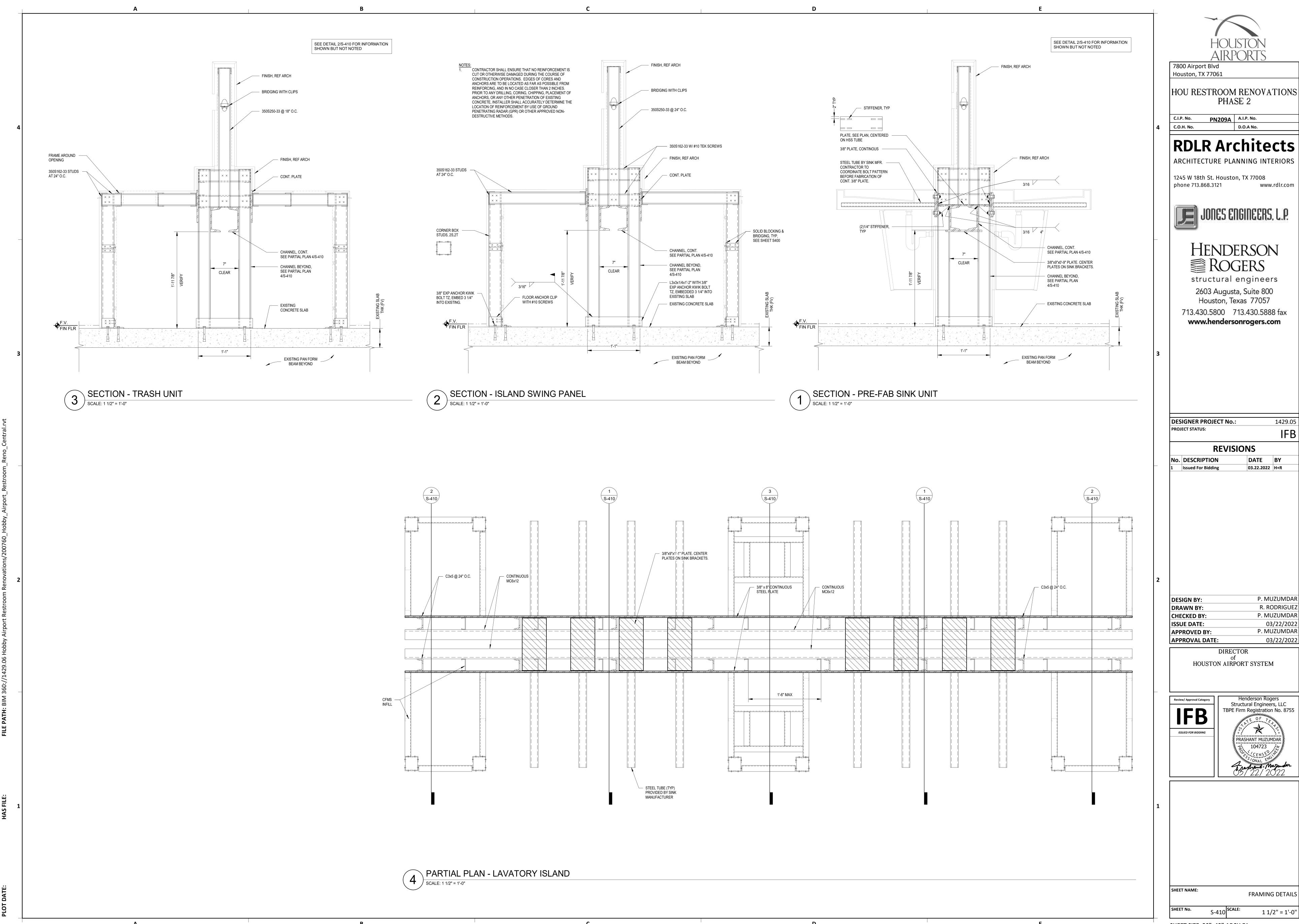
P. MUZUMDAR R. RODRIGUEZ P. MUZUMDAR P. MUZUMDAR

HOUSTON AIRPORT SYSTEM

Review/ Approval Category



FRAMING TYPICAL DETAILS



P. MUZUMDAR R. RODRIGUEZ P. MUZUMDAR



FRAMING DETAILS

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: **I-19-C-925F** - S-410 - 1

ENERGY CODE NOTES MECHANICAL GENERAL NOTES MECHANICAL SYMBOLS . DUCT SEALING: DUCTWORK AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH THE 2015 IECC AND 2012 UMC. PIPING AND DUCTWORK ON DRAWINGS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK 2. BALANCING: SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ROUTING, OFFSET AND RUN PIPING/DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, — SUPPLY OR OUTSIDE AIR UP ACCEPTED ENGINEERING STANDARDS (NEBB, AABC, OR ASHRAE 111). AIR SYSTEMS DUCTWORK, FITTINGS, INSULATION, AND OTHER ACCESSORIES. SHALL BE IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES. THEN FOR FANS WITH - SUPPLY OR OUTSIDE AIR DOWN FAN SYSTEM POWER GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET EXACT LOCATIONS OF TERMINAL BOXES, GRILLES, DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID DESIGN FLOW CONDITIONS. CONFLICTS AND ALLOW ADEQUATE CLEARANCE AND EASY ACCESS. FIRE DAMPER 3. ENERGY CODE COMPLETION REQUIREMENTS. 3. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER. - OPPOSED BLADE VOLUME DAMPER DRAWINGS: CONSTRUCTION DOCUMENTS SHALL REQUIRED THAT WITHIN 90 DAYS 4. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS. PARRALLEL BLADE VOLUME DAMPER AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL MANUAL CONTROL DAMPER INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED 5. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 10 FEET DISTANCE BETWEEN REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS. - AUTOMATIC CONTROL DAMPER MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING PROVIDE A CONICAL SPIN-IN SHEETMETAL. INLET DUCT TO TERMINAL BOX SHALL BE SAME SIZE AS TERMINAL BOX INLET SIZE. BALANCING DAMPER PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES. DUCT AND THE TERMINAL BOX INLET IS MORE THAN 6'-0". - RETURN OR RELIEF AIR UP MANUALS: CONSTRUCTION DOCUMENTS REQUIRE THAT AN OPERATING MANUAL AND A CONTRACTOR SHALL PROVIDE ADEQUATE CLEARANCE AROUND VAV BOXES AS REQUIRED BY MANUFACTURER. COORDINATE MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED | 4 RETURN OR RELIEF AIR DOWN EXACT LOCATION WITH OTHER TRADES. REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY INCLINED RISE IN DUCT 8. ROUTE HYDRONIC PIPING FROM MAINS TO VAV BOXES, REFER TO SCHEDULES FOR PIPE SIZING, WITH AN ISOLATION VALVE ON ACCEPTED STANDARDS. AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING: THE SUPPLY AND RETURN LINES AND A VENT AT THE HIGH POINT. OFFSET PIPING AND RUN INSIDE STRUCTURE AS NEEDED TO (A) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED PROVIDE PROPER CLEARANCES. TYPICAL. OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. INCLINED DROP IN DUCT (B) OPERATING MANUALS AND MAINTENANCE MANUALS FOR EACH 9. ALL SUPPLY AIR DUCT UPSTREAM OF TERMINAL BOXES (PER DIRECTION OF AIRFLOW) SHALL BE SIZED AND CLASSIFIED TO BE PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT (T) THERMOSTAT MEDIUM PRESSURE DUCTWORK. THIS DUCT SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE SHALL BE CLEARLY IDENTIFIED. RETURN GRILLE (C) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY. 10. INSTALL TERMINAL BOXES TO ENSURE ACCESS PANELS ARE NOT BLOCKED. MAINTAIN MINIMUM 4'-0" FOR CONTROL PANEL H HUMIDISTAT (D) HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS AND EXHAUST AIR UP CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD DETERMINED 11. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0". COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPE SUPPORT SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL EXHAUST AIR DOWN DRAWINGS, AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS, IN THE PROGRAMMING COMMENTS. 12. CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION. (E) COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO RETURN AIR GRILLE OPERATE, INCLUDING SUGGESTED SETPOINTS. 13. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND — RETURN AIR SLOT WITH PLENUM BOX CUTSHEETS BEFORE FABRICATION OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PADS. AUTOMATIC SHUTDOWN HVAC SYSTEM SHALL BE EQUIPPED WITH CONTROLS THAT CAN START AND STOP THE 14. CONTRACTOR SHALL VERIFY DUCTED RETURN AIR PATH BACK TO ALL UNITS. REFER TO FLOOR PLANS AND AIR DEVICE TAGS SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT TIMES PER FOR EXACT SIZING. WHERE RETURN AIR PATH IS ROUTED THROUGH A FIRE RATED WALL, A FIRE DAMPER SHALL BE PROVIDED WEEK, AND BE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTING DURING EXISTING DUCT LOSS OF POWER FOR A PERIOD OF NOT LESS THAN 10 HOURS AND INCLUDE AN EXISTING FLEX DUCT ACCESSIBLE MANUAL OVERRIDE, OR EQUIVALENT FUNCTION THAT ALLOWS 15. COORDINATE EXACT LOCATION, FINISH, AND COLOR OF ALL AIR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION. TEMPORARY OPERATION OF THE SYSTEM FOR TWO HOURS. EXISTING DIFFUSER 16. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED. SHUTOFF DAMPER CONTROLS CONNECT TO EXISTING BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH 17. PROVIDE ACCESS PANEL FOR ALL HVAC EQUIPMENT LOCATED ABOVE HARD CEILING. SIZE PANEL PER MANUFACTURER'S RECTANGULAR BRANCH DUCT TAP MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR RECOMMENDED SERVICE CLEARANCES AND COORDINATE WITH ARCHITECT FOR FINISH. SPACES SERVED ARE NOT IN USE. VENTILATION OUTDOOR AIR DAMPERS SHALL BE - ROUND BRANCH DUCT TAP CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING 18. PROVIDE TEMPERATURE SENSORS, HUMIDISTATS AND CO2 SENSORS AT LOCATIONS INDICATED ON PLANS. WARM UP, COOL DOWN AND SETBACK. MOUNT TEMPERAUTE SENSORS, HUMIDISTATS AND C02 SENSORS AT THE SAME ELEVATION AS LIGHT DIFFUSER TYPE, REFER TO SCHEDULE SWITCHES. COORDINATE EXACT LOCATIONS WITH ARCHITECT. — CFM 19. PROVIDE SPIN-IN CONNECTION WITH LOCKING QUADRANT BUTTERFLY FOR ALL ROUND DUCTWORK CONNECTED TO NECK SIZE 1. DUCTWORK WITHIN THE BUILDING ENVELOPE WILL HAVE A MINIMUM INSULATION RECTANGULAR DUCT. VALUE OF R-6, DUCTWORK LOCATED OUTSIDE OF THE BUILDING ENVELOPE WILL BE SUPPLY DIFFUSER INSULATED WITH A MINIMUM OF R-8. DUCTWORK SHALL HAVE VAPOR RETARDERS 20. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS. WITH A PERM RATING NOT TO EXCEED 0.5 PERM. ALL JOINTS TO BE SEALED. FLEXIBLE DUCT 21. ALL LOW PRESSURE DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA 2. CONSTRUCTION - VENTILATING CEILINGS, SUSPENDED CEILING MATERIAL SHALL NEW DUCTWORK STANDARDS FOR MEDIUM AND LOW PRESSURE DUCTWORK. HAVE A CLASS 1 FLAME-SPREAD CLASSIFICATION ON BOTH SIDES, DETERMINED IN FLEXIBLE CONNECTION ACCORDANCE WITH THE BUILDING CODE. CEILING SUPPORTS SHALL BE OF 22. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS. NONCOMBUSTIBLE MATERIALS. - TRANSITION LIGHTING FIXTURES RECESSED INTO VENTILATING CEILINGS SHALL BE OF A TYPE 23. FASTEN AND SEAL ALL DUCTWORK JOINTS, LONGITUDINAL AND TRAVERSE SEAMS AND CONNECTIONS PER ASHRAE 90.1 APPROVED FOR THAT PURPOSE. RECTANGULAR TO ROUND TRANSITION SECTION 6.4.4.2.1. DUCT SEALANT SHALL BE INSPECTED PRIOR TO DUCTWORK BEING INSULATED. TURNING VANES 3. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN 24. ALL EXPOSED DUCTWORK AND PIPING ALONG WITH ASSOCIATED ACCESSORIES IN AREAS WITH NO CEILING OR PARTIAL CEILING PLACE. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR. DUCTWORK TEE SUSTAIN VERTICAL AND HORIZONTAL LOADS WITHIN THE STRESS LIMITATIONS SPECIFIED IN THE IBC, SECTION 304.4 - UNIFORM MECHANICAL CODE. RADIUS ELBOW 25. PROVIDE REMOTE SPIN-IN CONNECTION FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT LOCATED ABOVE A SUPPLY AIR SLOT DIFFUSER WITH PLENUM BOX 26. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY MECHANICAL SHEET LIST RECTANGULAR TO OVAL TRANSITION 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 MITERED OR SQUARE THROAT ELBOW SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT SECUREMENT. NUMBER - REFER TO DRAWING #1, SHEET M2.0 MG001 MECHANICAL ABBREVIATIONS, LEGENDS AND NOTES 27. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO MG100 MECHANICAL OVERALL RENOVATION PLAN - LEVEL 2 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, MD101 MECHANICAL DEMOLITION PLAN - GATE 20-23 RESTROOMS EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR MD102 MECHANICAL DEMOLITION PLAN - GATE 24-27 RESTROOMS WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE CHILLED WATER RETURN LINE MD103 MECHANICAL DEMOLITION PLAN - GATE 28-32 RESTROOMS NECESSARILY INDICATED ON DRAWINGS, CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON MH101 MECHANICAL RENOVATION PLAN - GATE 20-23 RESTROOMS MH102 MECHANICAL RENOVATION PLAN - GATE 24-27 RESTROOMS HOT WATER RETURN LINE 28. COORDINATE ALL MOUNTING LOCATIONS AND HEIGHTS OF AIR DEVICES WITH ARCHITECT PRIOR TO FINAL INSTALLATION. MH103 MECHANICAL RENOVATION PLAN - GATE 28-32 RESTROOMS CONDENSATE DRAIN LINE 29. AFTER THE HYDRONIC SYSTEM FLUSH IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO PROVE ALL BYPASS LOOPS ON ALL OF THE COIL PIPING IS CLOSED. ONCE THE VALVE IS PROVED CLOSED, REMOVE THE HANDLE OF THE BYPASS REFRIGERANT LIQUID LINE ISOLATION VALVE TO ENSURE NO BYPASS LINE CAN BE OPENED DURING REGULAR OPERATION. REFRIGERANT SUCTION LINE EXISTING DUCT POINT OF CONNECTION TO NEW DUCTWORK NEW DUCT EXISTING DUCT DEMOLISH DUCTWORK UP TO LOCATION SHOWN DUCTWORK TO BE DEMOLISHED APPLICABLE CODES AND STANDARDS HOUSTON AIRPORT SYSTEM AND MODULAR RESTROOM DESIGN STANDARDS MECHANICAL CODE: 2012 UNIFORM MECHANICAL CODE WITH CITY OF HOUSTON AMENDMENTS BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE WITH CITY OF HOUSTON AMENDMENTS 2012 INTERNATIONAL FIRE CODE WITH CITY OF HOUSTON AMENDMENTS 2012 UNIFORM PLUMBING CODE WITH CITY OF HOUSTON AMENDMENTS. 2020 NATIONAL ELECTRIC CODE ASHRAE 90.1-2013 WITH CITY OF HOUSTON AMENDMENTS ASHRAE 62.1-2013 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY 2012 TAS - TEXAS ACCESSIBILITY STANDARD WHERE TWO OR MORE STANDARDS ARE APPLICABLE, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. Aconex File Name: I-19-C-925F - MG001 - 1

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C.O.H. No. D.O.A No.

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DESIGNER PROJECT No.: 1429.05 **PROJECT STATUS: REVISIONS** No. DESCRIPTION DATE BY

03.22.22 JE

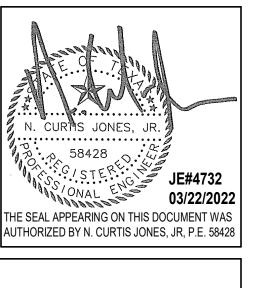
Issue for Bidding

MINAHIL SAMEE **DESIGN BY:** MINAHIL SAMEE DRAWN BY: **RON HUGHES** CHECKED BY: ISSUE DATE: N CURT JONES **APPROVED BY:** APPROVAL DATE:

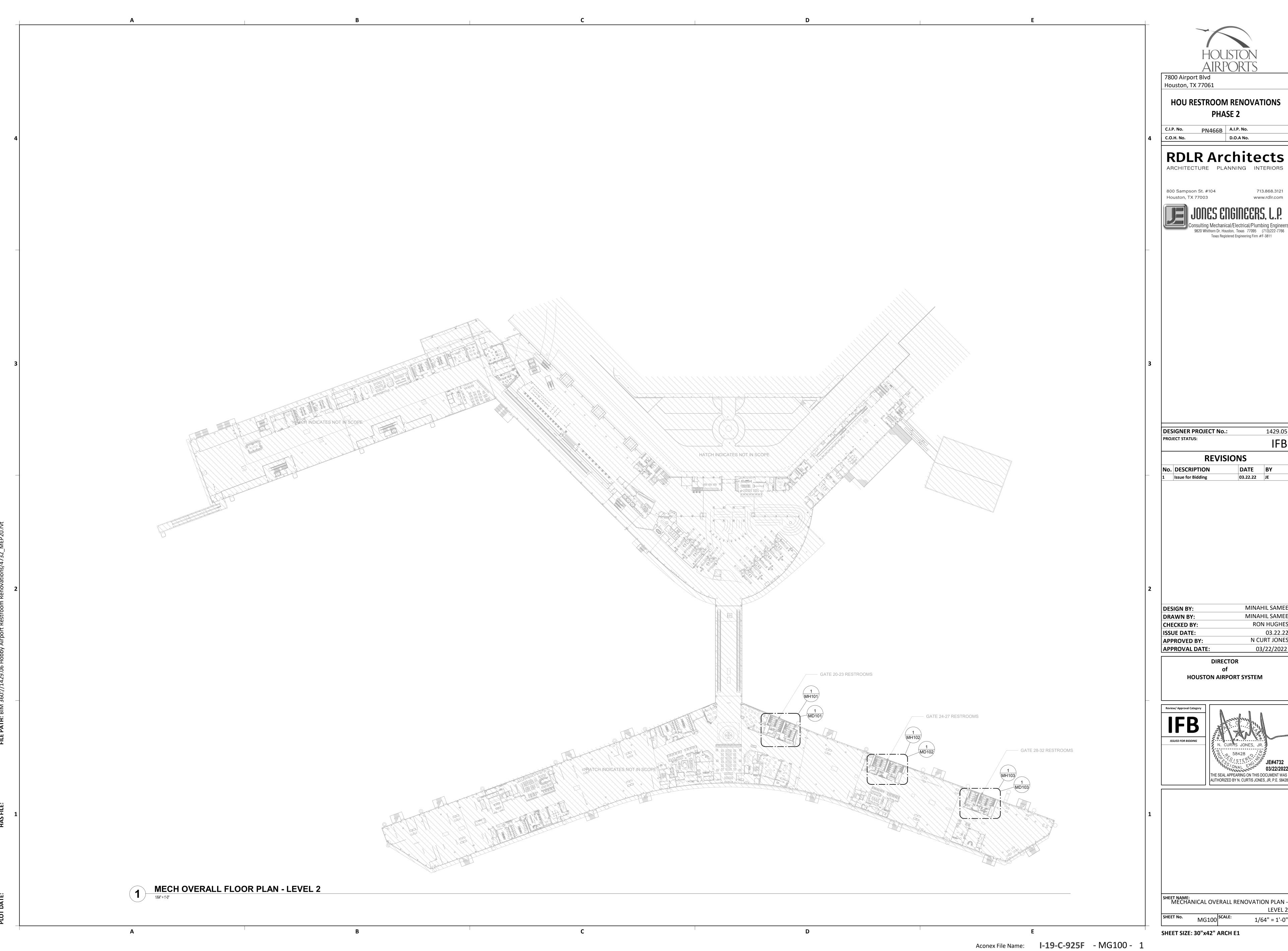
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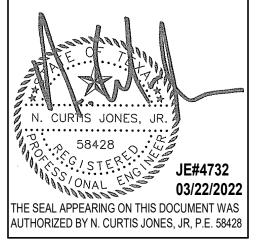
ISSUED FOR BIDDING



SHEET NAME:
MECHANICAL ABBREVIATIONS, LEGENDS



MINAHIL SAMEE MINAHIL SAMEE RON HUGHES N CURT JONES



EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES.

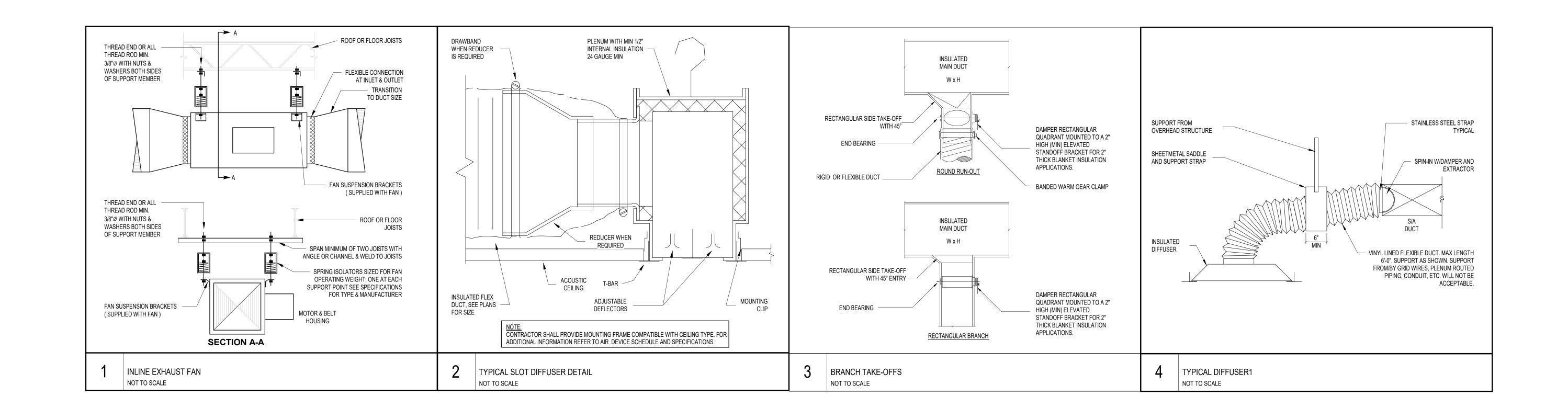
INLINE EXHAUST W/BACK DRAFT DAMPER AND SOLID STATE SPEED CONTROL

PROVIDE FAN WITH MOTOR RATED TOGGLE SWITCH, VARI-GREEN DIAL MOUNTED ON EXTERIOR OF FAN HOUSING, AND VIBRATION ISOLATIORS.

			AIR DEVICE SO	HEDULE					
MARK	MANU.	MODEL	ТҮРЕ	NOMINAL FACE SIZE	MAX CFM	NECK SIZE	NOISE CRITERIA (MAX) NC		NOTES
A	TITUS		WHITE, ALUMINUM, SQUARE TO ROUND ADAPTER, 12X12 FACE MAY BEUSED IN HARD CEILINGS FOR AIRFLOWS LESS THAN 150 CFM	24 x 24	150 CFM	6"	30	ALL	
С	TITUS		SUPPLY LINEAR AIR DEVICE, WHITE, ALUMINUM, 1" SLOT WITH PATTERN CONTROLLER. PROVIDE WITH PLENUM AND EXPOSED FRAME FOR SIDEWALL APPLICATION.	4' X 8"	100 CFM	8"	30	ALL	
Х	TITUS		EXHAUST LINEAR AIR DEVICE, ALUMINUM, (1) 2" SLOT WITH PATTERN CONTROLLER. PROVIDE WITH PLENUM AND EXPOSED FRAME FOR SIDEWALL APPLICATION.	4' X 8"	350 CFM	10	30	ALL	
X2	TITUS		EXHAUST GRILLE		300 CFM				
X3	TITUS		EXHAUST GRILLE		300 CFM				

- AIR DISTRIBUTION DEVICE LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH BORDER TYPE FOR LAY-IN MOUNTINGS. AIR DISTRIBUTION DEVICES LOCATED
- WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WALLS SHALL BE PROVIDED WITH BORDER TYPE FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMETNS FOR CEILING TYPES. PROVIDE TRIM-RING FOR SQUARE CONE DIFFUSERS LOCATED WITHIN GYPSUM BOARD CEILINGS.

 AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24"X24" GRID ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN.
- SECURE EACH DEVICE TO CEILING GRID WITH FIELD-FABRICATED SUPPORTS. PROVIDE SECTORIZING BAFFLES IN SUPPLY AIR DEVICES TO DIRECT AIR AS INDICATED ON FLOOR PLANS.
- DUCT RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS SCHEDULED NECK DIAMETER. 4 FT LONG PLENUM WITH 8" INLET CFM AS INDICATED ON PLAN



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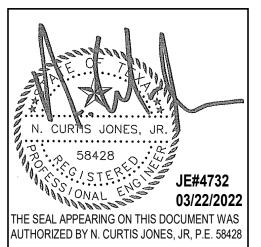
DESIGNER PROJECT No.: 1429.05 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY 03.22.22 JE Issue for Bidding

MINAHIL SAMEE **DESIGN BY:** MINAHIL SAMEE DRAWN BY: RON HUGHES CHECKED BY: ISSUE DATE: 03.22.22 N CURT JONES APPROVED BY: APPROVAL DATE:

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SHEET NAME:
MECHANICAL SCHEDULE AND DETAILS

KEYED NOTES KEY NOTE POINT OF DEMOLITION. DEMOLISH ALL DOWNSTREAM DUCTWORK AND AIR DEVICES AND REMOVE. EXISTING 48/24 LOUVER TO REMAIN. Houston, TX 77061 DEMOLISH EXISTING EXHAUST FAN AND REMOVE. COORDINATE WITH ELECTRICAL CONTRACTOR. SUPPLY/EXHAUST TRUNK DUCT IS EXISTING TO REMAIN. C.O.H. No. ARCHITECTURE PLANNING INTERIORS **DESIGNER PROJECT No.:** No. DESCRIPTION WOMEN'S RESTROOM MEN'S RESTROOM
126 ISSUED FOR BIDDING MECHANICAL DEMOLITION PLANS- GATE 20-23

1/4" = 1'-0"

7800 Airport Blvd

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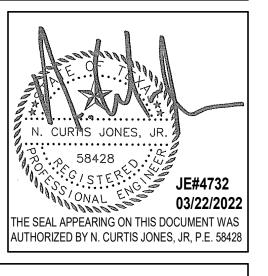
Texas Registered Engineering Firm #F-3811

1429.05 PROJECT STATUS: **REVISIONS** DATE BY

03.22.22 JE **Issue for Bidding**

REESE LAWSON **DESIGN BY:** REESE LAWSON DRAWN BY: RON HUGHES CHECKED BY: 03.22.22 ISSUE DATE: N CURT JONES APPROVED BY: APPROVAL DATE: 03/22/2022

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SHEET NAME:
MECHANICAL DEMOLITION PLAN - GATE 20-23 RESTROOMS

KEYED NOTES KEY NOTE POINT OF DEMOLITION. DEMOLISH ALL DOWNSTREAM DUCTWORK AND AIR DEVICES AND REMOVE. SUPPLY/EXHAUST TRUNK DUCT IS EXISTING TO REMAIN. 7800 Airport Blvd DEMOLISH EXISTING EXHAUST FAN IN MECHANICAL ROOM BELOW AND REMOVE. COORDINATE WITH ELECTRICAL CONTRACTOR. ALL DUCT ACCESSORIES, DUCTWORK, AND LOUVERS ARE EXISTING TO REMAIN. REFER TO MH102 FOR WORK TO BE DONE. Houston, TX 77061 ARCHITECTURE PLANNING INTERIORS Houston, TX 77003 **DESIGNER PROJECT No.:** PROJECT STATUS: No. DESCRIPTION **Issue for Bidding DESIGN BY:** DRAWN BY: CHECKED BY: ISSUE DATE: APPROVED BY: WOMEN'S RESTROOM ISSUED FOR BIDDING MECHANICAL DEMOLITION PLAN - GATE 24-27

1/4" = 1'-0" Aconex File Name: I-19-C-925F - MD102 - 1

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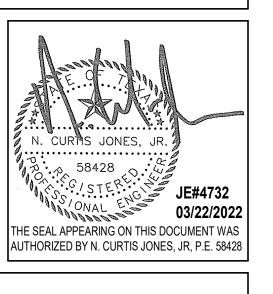
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REESE LAWSON REESE LAWSON RON HUGHES 03.22.22 N CURT JONES APPROVAL DATE: 03/22/2022

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SHEET NAME:
MECHANICAL DEMOLITION PLAN - GATE 24-27 RESTROOMS

KEYED NOTES 7800 Airport Blvd KEY NOTE Houston, TX 77061 POINT OF DEMOLITION. DEMOLISH ALL DOWNSTREAM DUCTWORK AND AIR DEVICES AND REMOVE. EXISTING 48/24 LOUVER TO REMAIN. DEMOLISH EXISTING EXHAUST FAN AND REMOVE. COORDINATE WITH ELECTRICAL CONTRACTOR. SUPPLY/EXHAUST TRUNK DUCT IS EXISTING TO REMAIN. PHASE 2 C.O.H. No. ARCHITECTURE PLANNING INTERIORS 800 Sampson St. #104 Houston, TX 77003 9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766 Texas Registered Engineering Firm #F-3811 **DESIGNER PROJECT No.:** PROJECT STATUS: No. DESCRIPTION 03.22.22 JE **Issue for Bidding** MEN'S RESTROOM **DESIGN BY:** DRAWN BY: CHECKED BY: ISSUE DATE: APPROVED BY: APPROVAL DATE: DIRECTOR WOMEN'S RESTROOM **HOUSTON AIRPORT SYSTEM** ISSUED FOR BIDDING MECHANICAL DEMOLITION PLAN - GATE 28-32 SHEET SIZE: 30"x42" ARCH E1 Aconex File Name: I-19-C-925F - MD103 - 1

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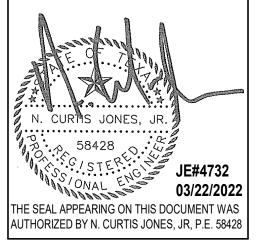
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03/22/2022



SHEET NAME:
MECHANICAL DEMOLITION PLAN - GATE
28-32 RESTROOMS

KEYED NOTES KEY NOTE CONNECT TO EXISTING BRANCH DUCTWORK.
EXISTING 48/24 LOUVER TO REMAIN. 8"ø (TYP. 4) ANIMAL RELIEF AREA MEN'S RESTROOM
126 MECHANICAL PLAN - GATE 20-23

1/4" = 1'-0"



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CHECKED BY:

RON HUGHES

ISSUE DATE:

APPROVED BY:

N CURT JONES

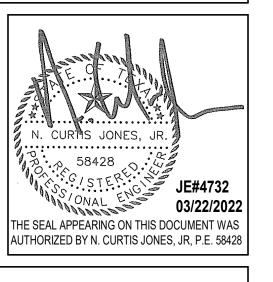
APPROVAL DATE:

03/22/2022

DIRECTOR of HOUSTON AIRPORT SYSTEM

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SHEET NAME:
MECHANICAL RENOVATION PLAN - GATE
20-23 RESTROOMS





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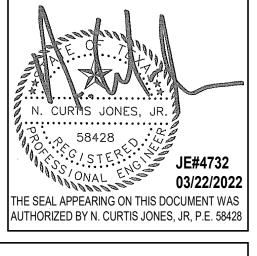
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REVISIONS DATE BY

03.22.22 JE

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SHEET NAME:
MECHANICAL RENOVATION PLAN - GATE
24-27 RESTROOMS

KEYED NOTES KEY NOTE 7800 Airport Blvd CONNECT TO EXISTING BRANCH DUCTWORK.
EXISTING 48/24 LOUVER TO REMAIN. **DESIGNER PROJECT No.:** No. DESCRIPTION **Issue for Bidding** MEN'S RESTROOM APPROVAL DATE: ISSUED FOR BIDDING MECHANICAL PLAN - GATE 28-32

1/4" = 1'-0"



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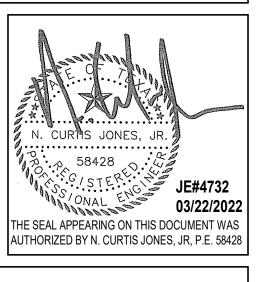
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SHEET NAME:
MECHANICAL RENOVATION PLAN - GATE
28-32 RESTROOMS

SWITCHES SWITCH, SPST, 20A, 120/277V DIMMER CONTROL SWITCH, 1000 WATT UNLESS OTHERWISE NOTED UNDERGROUND CONDUIT RECEPTACLES AND OUTLETS WP DUPLEX WALL RECEPTACLE. "WP" DENOTES WEATHERPROOF, "TP" FOURPLEX WALL RECEPTACLE. NEMA 5-15R, 15A, 125V. FLOOR OUTLET J JUNCTION BOX GFI GROUND FAULT INTERRUPTERS ELECTRICAL EQUIPMENT DISTRIBUTION PANEL NOTED OTHERWISE T TRANSFORMER SIZE, "NF" DENOTES NON-FUSED. FIRE ALARM ₩ALL SPEAKER/STROBE WALL STROBE SPEAKER MANUAL PULL STATION "DD" DUCT DETECTOR. ⟨T⟩ VALVE SUPERVISORY SWITCH

SYMBOL LEGEND

- SWITCH, 20A, 120/277V, "2" DENOTES DPST, "3" DENOTES THREE-
- WAY, "4" DENOTES FOUR-WAY
- \$ M SWITCH, MOTION SENSOR, NOVITAS #01-133
- WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE ENOUGH SENSORS(CEILING OR WALL MOUNTED) FOR FULL ROOM ♣^{OC} 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%). EATON #VSW-P-010 HASH MARKS INDICATE NUMBER OF CONDUCTORS
- PHASE/NEUTRAL/SWITCH LEG/GROUND FROM LEFT TO RIGHT. NO HASH MARKS INDICATES 2#12, 1#12G, UNLESS OTHERWISE

- DUPLEX WALL RECEPTACLE, NEMA 5-15R, 15A, 125V OR NEMA 5-20R, 20A, 125V, RE: SPECIFICATIONS, DOT INDICATES ABOVE COUNTER.
- DENOTES SAFETY TYPE, "GFI" DENOTES GROUND FAULT PROTECTION, DOT INDICATES ABOVE COUNTER.
- DOT INDICATES ABOVE COUNTER.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED. DOT INDICATES ABOVE COUNTER.
- DIRECT CONNECTION TO EQUIPMENT
- TELEPHONE WALL OUTLET. PROVIDE 2"X4" OUTLET BOX WITH 3/4" CONDUIT AND PULL STRING TO ABOVE CEILING.
- DATA WALL OUTLET. PROVIDE 2"X4" OUTLET BOX WITH 3/4" CONDUIT AND PULL STRING TO ABOVE CEILING.
- COMBINATION RECEPTACLE/TELEPHONE/DATA FLOOR OUTLET

PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4", UNLESS

MOTORS AND CONTROLS

- SINGLE OR THREE PHASE MOTOR
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/#0" DENOTES AMPÉRES/POLES/FUSE/ STARTER
- \$ MANUAL MOTOR STARTING WITH THERMAL OVERLOAD

FACP FIRE ALARM CONTROL PANEL (FLUSHISURFACE) CEILING SPEAKER/STROBE. (##) IS CANDELA RATING

CEILING STROBE. (##) IS CANDELA RATING

AREA SMOKE DETECTOR, "H" HEAT DETECTOR,

SPRINKLER FLOW SWITCH

GENERAL ELECTRICAL NOTES:

- THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND WERE MADE FROM THE BEST INFORMATION AVAILABLE. CONFIRM ALL LOCATIONS AND DIMENSIONS IN THE FIELD. VISIT THE SITE PRIOR TO BID. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CONDITIONS AS THEY EXIST AND NO ADDITIONAL COSTS WILL BE ALLOWED FOR READILY OBSERVABLE CONDITIONS.
- GUARANTEE LABOR AND MATERIALS FOR 1 YEAR.
- ALL NEW OR ADDITIONAL POWER DISTRIBUTION EQUIPMENT SHALL BE THE SAME MANUFACTURER AS THE ORIGINAL BUILDING EQUIPMENT AND SHALL BE PROVIDED WITH BLACK, PHENOLIC NAMEPLATES WITH WHITE LETTERS (MIN. 5/16" HT.). PANELBOARDS SHALL BE EMBOSSED OR ENGRAVED METAL NAMEPLATE TO INDICATE VOLTAGE, PHASE, BUSSING, AND SHORT CIRCUIT BRACING. SUPPLY NEW, ACCURATE PANEL DIRECTORIES FOR EACH PANEL BOARD OR DISTRIBUTION PANEL IN WHICH ANY WORK IS PERFORMED. PROVIDE NEW BREAKERS IN EXISTING SPACES AS REQUIRED FOR THIS INSTALLATION. BREAKERS FOR ABANDONED CIRCUITS SHALL BE LABELED "SPARES".
- REUSED ELECTRICAL EQUIPMENT, WIRING DEVICES, WIRING DEVICE COVER PLATED, CONDUIT AND WIRE WHICH ARE DAMAGED SHALL BE RESTORED TO ORIGINAL INTEGRITY. ALL MATERIALS USED FOR REPAIRS SHALL MEET ORIGINAL SPECIFICATIONS. ABANDONED ELECTRICAL, DATA, OR COMMUNICATIONS ELEMENTS SHALL BE REMOVED BACK TO ORIGINAL SOURCE AND RETURNED TO LANDLORD. REFER TO DATA AND TELEPHONE CONTRACTOR FOR COORDINATION.
- 5. ANY ELECTRICAL WORK AFFECTING THE LIGHTING ON THE AOA MUST BE COORDINATED WITH IAH ELECTRICAL DEPARTMENT.
- FOR ALL TELEPHONES/DATA OUTLETS, PROVIDE AN OPENING, PLASTER RING. AND DEVICE PLATE AT NORMAL RECEPTACLE HEIGHT UNLESS OTHERWISE INDICATED AND A PULLSTRING TO THE ACCESSIBLE CEILING SPACE ABOVE. WHERE THE WALL IS LOCATED BELOW AN INACCESSIBLE CEILING SPACE, PROVIDE A 4" SQUARE JUNCTION BOX WITH A SINGLE DEVICE PLASTER RING MOUNTED FLUSH WITH FINISHED WALL AT NORMAL RECEPTACLE HEIGHT, UNLESS OTHERWISE NOTED. ALL TELECOMMUNICATION CONDUIT TO BE 1" MINIMUM AND ROUTED TO IDF ROOM AND/OR TO ABOVE CABLE TRAY WITH BUSHING.
- 7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CIRCUIT DESIGNATIONS AND SHALL MAKE CORRECTIONS AS NEEDED.
- ALL FIRE ALARM SYSTEM DEVICES AND EXIT SIGNAGE SHALL BE INTERFACED WITH BUILDING FIRE ALARM SYSTEM. ALL NEW DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. FIRE ALARM SYSTEM CONTRACTOR SHALL VERIFY LOCATION AND QUANTITY OF FIRE ALARM SYSTEM INITIATING, AUTOMATIC INITIATING AND AUDIBLE DEVICES AS REQUIRED BY EXISTING BUILDING SYSTEM. PROVIDE ADDITIONAL FIRE ALARM SIGNALING DEVICES AS REQUIRED TO ENSURE ADEQUATE COVERAGE THROUGHOUT THE APPLICABLE AREA. ADDITIONAL FIRE ALARM DEVICES SHALL BE ADDED TO MEET BUILDING STANDARDS AND FIRE ALARM SYSTEM CODE REQUIREMENTS. ALL FIRE ALARMS RELATED WORK INCLUDING FIRE ALARM SYSTEM SHUTDOWNS, MUST BE COORDINATED WITH OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH HAS CONSTRUCTION REQUIREMENTS. WORK THAT INTERFERES WITH EXISTING TENANT OR BUILDING ACTIVITIES MAY REQUIRE SPECIAL TIME. THE ELECTRICAL CONTRACTOR SHALL COORDINATE SPECIAL TIME WITH BUILDING MANAGEMENT AND INCLUDE THESE COSTS IN HIS BID PROPOSAL.
- ELECTRICAL WORK MUST COMPLY WITH NEC-2020, CITY ELECTRIC CODE, AND 2018 HAS-ELECTRIC STANDARDS. BASE BUILDING STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THESE DRAWINGS. IF ANY CONFLICT BETWEEN ANY CODE REQUIREMENTS ARISES, USE THE MOST
- 11. ALL LOCATIONS OF DEVICES ARE APPROXIMATE. SEE ARCHITECTURAL DRAWINGS FOR EXACT
- 12. SEAL NEW OR EXISTING PENETRATIONS IN OF FLOORS, RATED PARTITIONS, AND CORRIDOR WALLS.
- 13. SECURE ALL PERMITS AND PROVIDE ANY REQUIRED TEMPORARY UTILITIES.
- 14. ALL WORK AND SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER SUCH THAT THE WORK IS PERFORMED AT THE OWNERS CONVENIENCE. THIS MAY BE DURING EVENINGS AND
- 15. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS INDICATING THE CONFIGURATION OF THE
- 16. REPAIR ANY DAMAGE THAT OCCURS TO ANY ELECTRICAL EQUIPMENT DURING DEMOLITION.
- 17. SUBMIT INFORMATION ON ALL NEW EQUIPMENT IN THE FORM OF SHOP DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR THE CORRECT PROCEDURE.
- 18. PROVIDE 3 COPIES OF THE OPERATION AND MAINTENANCE MANUALS TO THE OWNER. PROVIDE INSTRUCTION ON THE SYSTEM OPERATION TO THE OWNER.
 - 19. AS PER 2020 NEC AND ALL HAS STANDARDS ALL PANELS, DISCONNECTS, TRANSFORMERS SHALL HAVE PHENOLIC TAGS STATING ELECTRICAL ROOM, CIRCUIT NUMBER AND VOLTAGE WITH ARC FLASH STICKERS. WHERE APPLICABLE, ALL RECEPTACLES ON TABLES OR BAR AREA SHALL BE GFCI PROTECTED. CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION FITTING PER NEC.
 - WIRING ALL WIRING SHALL BE COPPER, MINIMUM SIZE #12 AWG, THWN, RATED AT 600 VOLTS. PROVIDE GREEN GROUNDING CONDUCTOR WITH ALL POWER AND RECEPTACLE CIRCUITS. ALL WIRING TO BE IN CONDUIT. LIGHTING FIXTURES MUST HAVE INDIVIDUAL FEEDS TO EACH FIXTURE, "DAISY CHAINING" OF FIXTURES IS NOT ALLOWED. LIGHTING FIXTURE WHIPS MUST BE 6 FEET LONG OR LESS.
 - A. NO AC (BX) OR MC CABLE ALLOWED. ALL GROUND RODS TO BE STAINLESS STEEL (3/4" x 10' MINIMUM).

INSULATION OR COVER(WALL OR CEILING).

- ALL BONDING AND GROUNDING PER 250 OF 2020 NEC AND ALL HAS 2020 STANDARDS. ALL UNUSED CONDUIT AND WIRING OF ANY CRAFT SHALL BE REMOVED BACK TO ITS SOURCE. ALL ELECTRICAL WORK MUST PASS INSPECTION PRIOR TO BACKFILL, CONCRETE PLACEMENT,
- 21. BOXES ALL BOXES TO BE GALVANIZED STEEL SUITABLE FOR LOCATION AND SIZED PER THE N.E.C. AND SUPPORTED SEPARATELY FROM CONDUIT.
- 22. DEVICES: SWITCHES SINGLE POLE, 3-WAY AND 4-WAY SWITCHES TO BE 20 AMP., 120/240 OR 277/480 VOLT AS APPLICABLE. MOUNT SWITCHES AS SHOWN ON PLAN. SWITCHES AND DEVICE PLATES SHALL BE WHITE IN COLOR, UNLESS NOTED OTHERWISE. HUBBELL #1121I OR EQUAL RECEPTACLES -COMMERCIAL GRADE 20 AMP., 120V., NEMA 5-20R, HUBBELL 5262I OR EQUAL. INSTALL RECEPTACLES AS SHOWN ON PLAN. RECEPTACLES AND DEVICE PLATES SHALL BE WHITE IN COLOR, UNLESS NOTED OTHERWISE. ISOLATED GROUND RECEPTACLES TO BE ORANGE HUBBELL 1121I OR EQUAL. FLOOR BOX WITH BRASS CARPET FLANGE SHALL BE HUBBELL B2536 OR EQUAL.
- 23. CONDUIT ALL ELECTRICAL CONDUIT SHALL BE 3/4" MINIMUM GALVANIZED EMT W/ COMPRESSION FITTINGS. ALL TELECOMMUNICATION CONDUIT SHALL BE 1" MINIMUM GALVANIZED EMT W/ COMPRESSION FITTINGS. SUPPORT CONDUIT FROM STRUCTURE, NOT TO EXCEED 10' BETWEEN SUPPORTS. DO NOT SUPPORT FROM DUCTWORK OR PIPING. ROUTE CONDUIT AS DIRECTLY AS POSSIBLE WITH LARGE RADIUS BENDS AND INSTALLED PER N.E.C. PROVIDE U.L. LISTED EXPANSION FITTINGS IF CONDUIT CROSSES EXPANSION OR DEFLECTION JOINT. CLEAN CONDUIT INTERIOR AFTER INSTALLATION, COAT SCRATCHES WITH ZINC PAINT. PROVIDE PULL WIRE FOR ALL EMPTY CONDUIT. CONDUIT UNDER SLAB SHALL BE SCHEDULE 40 PVC. ALL CONDUIT SHALL BE CONCEALED IN THE SALES AREAS. ANY CONDUIT PASSING THROUGH THE FLOOR SHALL BE RIGID GALVANIZED STEEL CONDUIT. ALL FLOOR PENETRATIONS SHALL BE INSPECTED FOR FIRE CAULKING BY BSG ELECTRICAL INSPECTORS BEFORE COVERING.
- A. MINIMUM WIRE SIZE FOR BRANCH CIRCUITS BE NO. 12 AWG COPPER. A.
- a. NO. 14 AWG MAY BE USED FOR CONTROL CIRCUIT WIRING WHEN OVER CURRENT PROTECTION IS PROVIDED IN COMPLIANCE WITH THE APPLICABLE NEC, NFPA AND JIC STANDARDS.
- b. NO. 14 AWG OR NO. 16 AWG MAY BE USED FOR "FIXTURE WHIPS" FOR INDIVIDUAL FIXTURES WHEN USING INDIVIDUAL FUSE PROTECTION FOR EACH FIXTURE. ALUMINUM WIRE SHALL BE USED ONLY FOR OVERHEAD SPANS FROM POLE TO POLE, POLE TO
- BUILDING, OR BUILDING TO BUILDING APPLICATIONS. STRANDED WIRE SMALLER THAN NO. 8 AWG MAY BE FOR BRANCH CIRCUITS PROVIDING: a. THEY ARE CONNECTED TO WIRING DEVICES THAT UTILIZE CLAMP TYPE TERMINATIONS
- RATHER THAN BINDER HEAD SCREW CONNECTIONS. b. THEY ARE TERMINATED WITH SPADE TYPE LUGS FOR BINDER HEAD SCREW CONNECTIONS. c. THEY ARE SPLICED TO SOLID CONDUCTORS FOR BINDER HEAD SCREW CONNECTIONS.
- STRANDED CONDUCTORS SHALL BE USED FOR ALL MOTOR AND CONTROL CIRCUIT WIRING. CONDUCTORS FEEDING COMPUTER OUTLETS (OR IN CLOSE PROXIMITY TO A TELECOMMUNICATIONS OUTLET) SHALL HAVE A NEUTRAL ONE SIZE LARGER THAN THE PHASE CONDUCTOR. REQUIRED TORQUE TO TERMINALS IN BREAKERS 100A AND ABOVE MUST BE WITNESSED BY
- HAS/BSG ELECTRICAL INSPECTORS. G. CONDUCT COLOR CODING SHALL BE CONSISTENT ALONG THE ENTIRE LENGTH OF A CIRCUIT. COLOR CODING SHALL BE AS FOLLOWS:

480Y / 277V, 3∅,	4W 208Y / 120V, 3Ø, 4W	240Y / 120V, 1Ø, 3W
AØ - BROWN	AØ - BLACK	AØ - BLACK
BØ - PURPLE	BØ - RED	CØ - RED
CØ - YELLOW N - GRAY	CØ - BLUE N - WHITE	N - WHITE GRND - BARE
GRND - BARE	GRND - BARE	ISO GRND - GREEN
ISO GRND - GREEN	ISO GRND - GREEN	

- 25. ALL WORK IN WALLS, CEILINGS AND UNDERGROUND CONDUITS SHALL BE INSPECTED BEFORE COVERING.
- 26. ALL CAD-WELDS TO BE INSPECTED BY ELECTRICAL INSPECTOR BEFORE COVERING. ALL CAD-WELDS UNDERGROUND TO BE SEALED WITH A COLD TAR (BIT MASTIC 50) OR EQUIVALENT AFTER INSPECTION.
- 27. TRANSFORMERS TO BE INSTALLED IN ACCORDANCE WITH HAS DESIGN STANDARDS.
- 28. THE MINIMUM LENGTH OF FLEXIBLE METALLIC CONDUIT (OR LIQUID TIGHT) FOR FINAL CONNECTION TO VIBRATING EQUIPMENT WILL BE 4 FEET. THE MAXIMUM LENGTH FOR ANY CONNECTION WILL BE 6 FEET.
- 29. ALL ELECTRICAL WORK MUST PASS INSPECTION PRIOR TO BACKFILL, CONCRETE PLACEMENT, INSULATION OR COVER (WALL OR CEILING).

7800 Airport Blvd Houston, TX 77061

> **HOU RESTROOM RENOVATIONS** PHASE 2

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

RDLR Architects ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121



9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766 Texas Registered Engineering Firm #F-3811

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

DATE BY

03.22.22 JE

No. DESCRIPTION

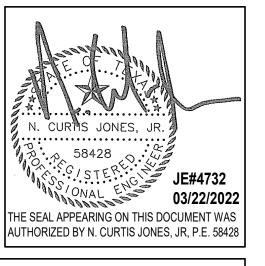
Issue for Bidding

TOM JONES **DESIGN BY:** MINAHIL SAMEE DRAWN BY: RON HUGHES CHECKED BY: ISSUE DATE: N CURT JONES **APPROVED BY:** APPROVAL DATE:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

Review/ Approval Category

ISSUED FOR BIDDING

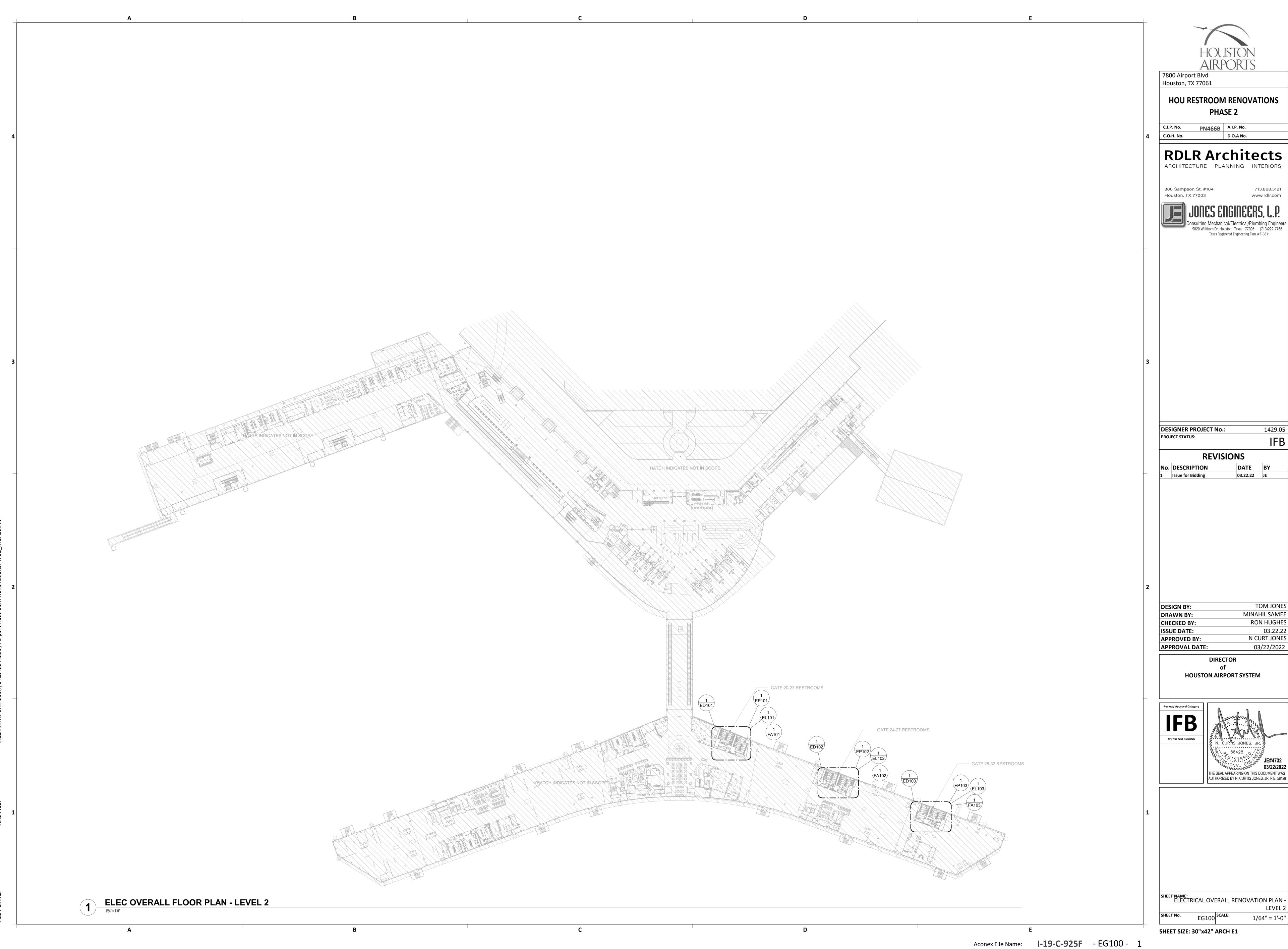


12" = 1'-0"

SHEET NAME: ELECTRICAL ABBREVIATIONS, LEGENDS, AND

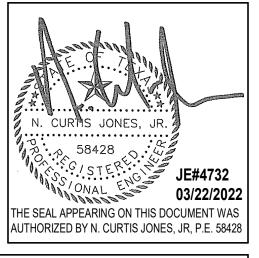
SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - EG001 - 1

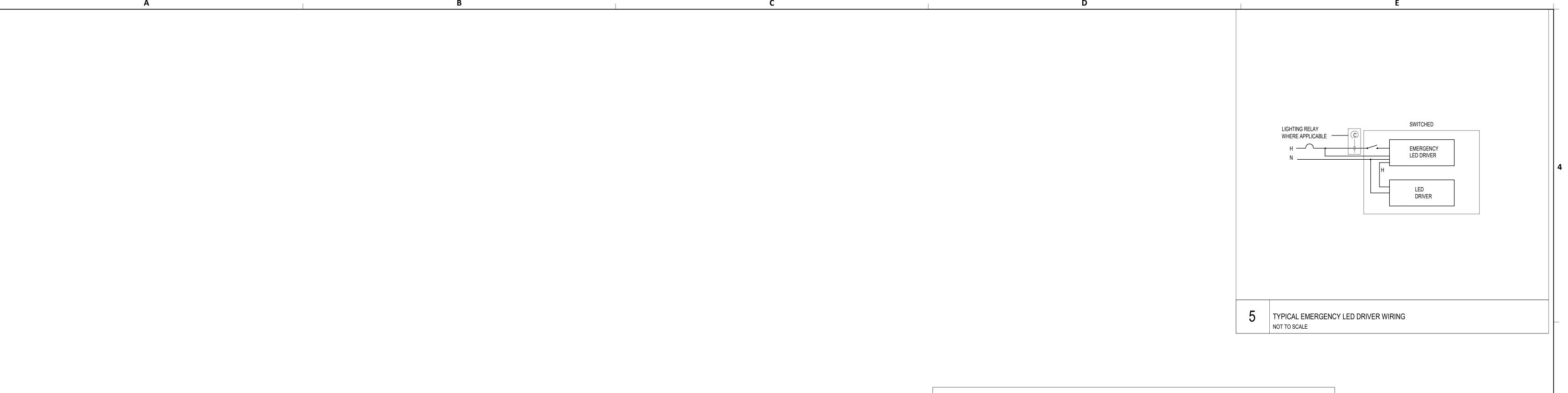


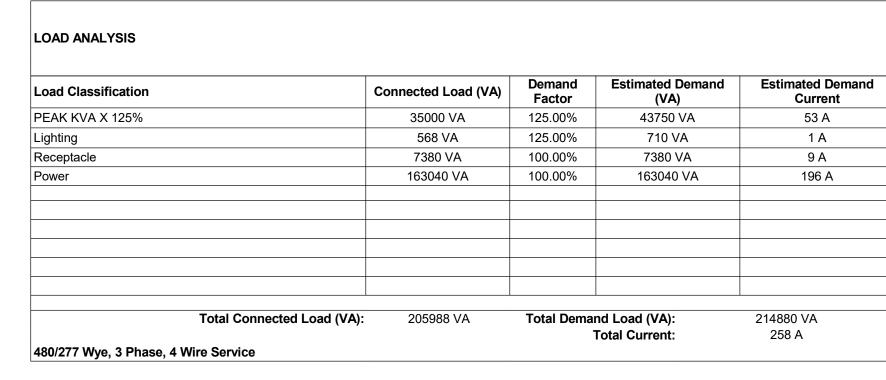
www.rdlr.com

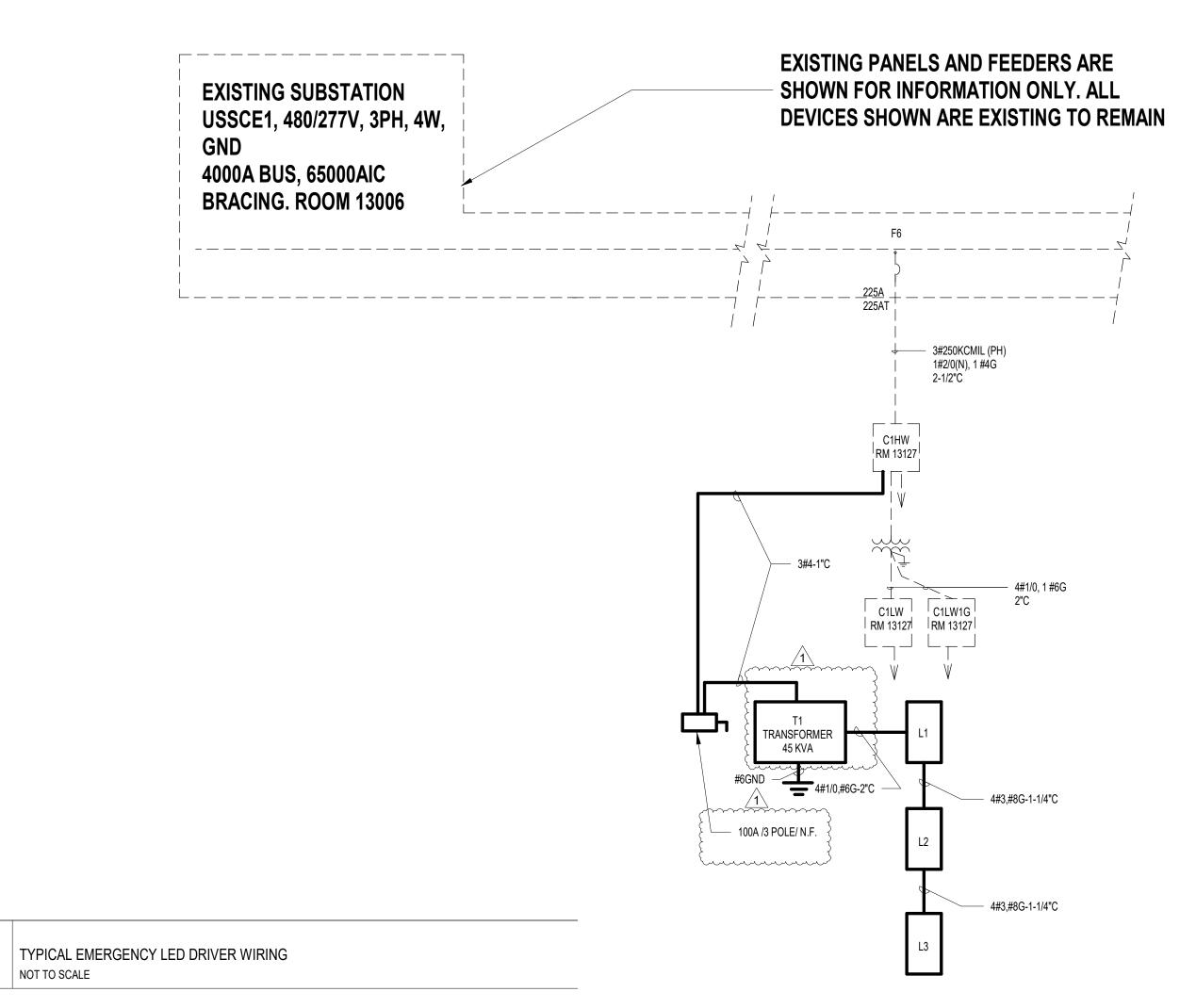
TOM JONES MINAHIL SAMEE RON HUGHES N CURT JONES



SHEET NAME: ELECTRICAL OVERALL RENOVATION PLAN -







	Location: Supply From: DP Mounting: SURFACE Enclosure: Type 1					ī	Volts: Phases: Wires:		7 Wye				ľ	A.I.C. Rating: Mains Type: MCB Mains Rating: 225 A MCB Rating: 225 A		
Notes: EXISTI	NG PANEL										1					
СКТ	Circuit Description	Wiro	Trin	Doloo		Δ.		В		•	Boloo	Trin	Mira	Circuit I	Dogovintion	СКТ
1	Circuit Description Existing Load	vvire	Trip 25 A	Poles	5000	A 2500		-	,) 	Poles 1	Trip 20 A	vvire	Existing Load	Description	2
3	Existing Load		20 A	1	3000	2000	2800	4500			1	20 A		Existing Load Existing Load		4
5	Existing Load		20 A	1			2000	7000	4500	2800	1	20 A		Existing Load		6
7	Existing Load		20 A	1	4500	8700			+550	2000	3	25 A		EXISTING AHU C141	7.5 HP	8
9	Existing Load		20 A	1	1300	5700	4500	0 VA								10
11	Existing Load		20 A	1			1500	J VA	4500	0 VA						12
13	EXISTING TRANSFORMER C1TW 75KVA		125 A	3	7500	11700			1500	3 47	3	25 A		EXISITING AHU C142	10 HP	14
15					. 550		0 VA	0 VA								16
17	 	<u></u>	 				3 7,1	5 1/1	0 VA	0 VA						18
19	SPARE		20 A	1	0 VA	15533			3 7/1	3 77	3 (70 A	~~~	TRANSFORMER 45K	VA	20
21	SPARE		20 A	1	J 171		0 VA	1419			}					22
23	SPARE		20 A	1			1 .,,		0 VA	1026	{					24
25												 	 	 ~~~~~~~~	~~~~~~~	26
27																28
29																30
31																32
33																34
35																36
37																38
39																40
41																42
•••	1		Total	Load:	1229	933 VA	2599	⊥ 95 VA	2206	0 VA		1	<u> </u>			12
			Total			46 A		6 A) A	J					
Legeno	d: :lassification		Conn	ected	Load	Den	nand Fa	ctor	Estin	nated De	emand			Panel	Totals	
Lighting	J		5	68 VA	·		125.00%)		710 VA						
Power				3040 V			100.00%			63040 V				Total Conn. Load:		
Recept	acle		7:	380 V <i>A</i>	١		100.00%)		7380 VA	\			Total Est. Demand:		
														Total Conn.:		
														Total Est. Demand:	206 A	
Notes:																



7800 Airport Blvd Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

C.O.H. No.

RDLR Architects ARCHITECTURE PLANNING INTERIORS



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

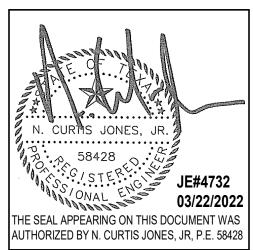
No. DESCRIPTION DATE BY

03.22.22 JE **Issue for Bidding**

ALEX CASTRO **DESIGN BY:** ALEX CASTRO DRAWN BY: RON HUGHES CHECKED BY: 03.22.22 ISSUE DATE: N CURT JONES APPROVED BY: APPROVAL DATE: 03/22/2022

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

ISSUED FOR BIDDING



ELECTRICAL DETAILS 12" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

NOT TO SCALE

A.I.C. Rating: Volts: 480/277 Wye Supply From: Phases: 3 Mains Type: MCB Mounting: SURFACE Wires: 4 Mains Rating: 225 A MCB Rating: 225 A Enclosure: Type 1 **EXISTING PANEL** C Poles Trip Wire **Circuit Description** Circuit Description Wire Trip Poles A B 1 Existing Load 3 Existing Load
5 Existing Load 7 Existing Load 9 Existing Load 11 Existing Load 13 Existing Load 15 Existing Load 17 Existing Load 19 Existing Load
21 Spare
23 Spare 25 Spare
27 Spare
29 Spare
31 Spare
33 Spare
35 Spare 37 Existing Load Legend: Load Classification **Estimated Demand** Panel Totals Connected Load **Demand Factor** Existing Load 75000 VA 125.00% 93750 VA 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

Branch Panel: C1HM

	Branch Panel: L1 Location: JANITOR Supply From: T1 Mounting: SURFACE Enclosure: Type 1					F	Volts: Phases: Wires:		3 Wye					A.I.C. Rating: 10000 Mains Type: MLO Mains Rating: 200 A MCB Rating: 150 A	
Notes:															
СКТ	Circuit Description	Wire	Trip	Poles		A	E	3	(3	Poles	Trip	Wire	Circuit Description	СКТ
1	PAPERTOWEL DISPENSER	#12	20 A	1	900 VA						1	20 A		PAPERTOWEL 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					360 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		HAND DRYER	16
17	HAND DRYER	#12	20 A	1					180 VA	360 VA	1	20 A		RECEPTACLE	18
19	TOILET SENSOR	#12	20 A	1	720 VA	540 VA					1	20 A		TOILET SENSOR	20
21	TOILET SENSOR	#12	20 A	1			900 VA	360 VA	40014	400 \ (4	1	20 A		SOAP/ WATER FAUCET SENSOR	22
23	HAND DRYER	#12	20 A	1	540.1/4	400 \ / 4			180 VA	180 VA	1	20 A		HAND DRYER	24
25	SOAP/ WATER FAUCET SENSOR	#12	20 A	1	540 VA	180 VA	400 \ / A	400 \ / A			1	20 A		HAND DRYER	26
27 29	HAND DRYER HAND DRYER	#12 #12	20 A 20 A	1			180 VA	180 VA	190 \/A	180 VA	1	20 A 20 A		SOAP/ WATER FAUCET SENSOR HAND DRYER	28 30
<u>29 </u>	HAND DRYER	#12	20 A	1	180 \/Δ	180 VA			100 VA	100 VA	1	20 A		HAND DRYER	32
33	SOAP/ WATER FAUCET SENSOR	#12	20 A	<u>'</u> 1	100 VA	100 VA	180 VA	180 VA			1	20 A		HAND DRYER	34
35	HAND DRYER		20 A	1			100 171	100 171	180 VA	180 VA	1			RECEPTACLE	36
37	TOILET SENSOR	#12	20 A	1	720 VA	720 VA					1	20 A		TOILET SENSOR	38
39	RECEPTACLE	#12	20 A	1			900 VA	180 VA			1	20 A		RECEPTACLE	40
41	RECEPTACLE	#12	20 A	1					180 VA	720 VA	1			RECEPTACLE	42
43	Lighting	#12	20 A	1	219 VA	8294					3	100 A		PANEL L2	44
45	Spare		20 A	1			0 VA	8975							46
47	Spare		20 A	1					0 VA	6840					48
49	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	50
51	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	52
53	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	54
			Total			33 VA	1419			0 VA					
egend	4.		Total /	Amps:	13	4 A	123	3 A	86	S A					
gen	ı.														
oad C	Classification		Conne	ected	Load	Den	nand Fa	ctor	Estin	nated De	mand			Panel Totals	
ghting	9			68 VA			125.00%			710 VA					
wer				040 V			100.00%			32040 V				Total Conn. Load: 39988 VA	
ecept	acle		73	380 VA	١		100.00%			7380 VA	L			Total Est. Demand: 40130 VA	
														Total Conn.: 111 A	
														Total Est. Demand: 111 A	
						I			1						

	Branch Panel: C1HP Location: Supply From: Mounting: SURFACE Enclosure: Type 1					i	Volts: Phases: Wires:		7 Wye					A.I.C. Rating: Mains Type: MCB Mains Rating: 225 A MCB Rating: 225 A	
Notes:	STING PANEL														
СКТ	Circuit Description	Wire	Trip	Poles		A		В	(Poles	Trip	Wire	Circuit Description	CK
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	
5	SPARE		20 A	1					0 VA	0 VA	1	20 A		EXISTING COVERED AREA LGTS NORTH	(
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	1
11	EXISTING NORTH CATWALK NORTH SIDE		20 A	1					0 VA	0 VA	1	20 A		EXISTING L2 SW AREA	1
13	EXISTING NORTH CATWALK NORTH SIDE		20 A	1	0 VA	0 VA					1	20 A		EXISTING L2 SW AREA	1
15	EXISTING NORTH CATWALK NORTH SIDE		20 A	1			0 VA	0 VA			1	20 A		EXISTING NORTH CATWALK UPLGTS	1
17	EXISTING SOUTH CATWALK NORTH SIDE		20 A	1					0 VA	0 VA	1	20 A		EXISTING NORTH CATWALK UPLGTS	1
19	EXISTING SOUTH CATWALK NORTH SIDE		20 A	1	0 VA	0 VA					1	20 A		EXISTING NORTH CATWALK UPLGTS	2
21	EXISTING COLUMN NORTH AND BR LGTS		20 A	1		5 .7.	0 VA	0 VA			1	20 A		EXISTING BULKHEAD DN LGTS NORTH	2
23	EXISTING MENS & WOMENS BR LGTS		20 A	1			0 1/1	0 171	0 VA	0 VA	1	20 A		EXISTING BULKHEAD DN LGTS NORTH	2
25	EXISTING HOLD RM PDT. LGTS NORTH		20 A	1	0 VA	0 VA			0 7/1	0 7/1	1	20 A		EXISTING BULKHEAD DN LGTS NORTH	2
27	EXISTING BULKHEAD DN LGTS NORTH		20 A	1	UVA	UVA	0 VA	0 VA			1	20 A		EXISTING HOLD ROOM PDT LGTS NORTH	2
29	EXISTING BULKHEAD DN LGTS NORTH		20 A	1			0 7/1	0 1/1	0 VA	0 VA	1	20 A		EXISTING HOLD ROOM PDT LGTS NORTH	3
31	EXISTING BULKHEAD DN LGTS NORTH		20 A	1	0 VA	0 VA			UVA	OVA	1	20 A		EXISTING COLUMN & GATE COUNTER EAST	3
33	EXISTING SOUTH BULKHEAD DN LGTS		20 A	1	UVA	UVA	0 VA	0 VA			1	20 A		EXISTING BULKHEAD DN AND LOBBY LGTS	3
35	EXISTING BULKHEAD DN LGTS SOUTH		20 A	1			UVA	UVA	0 VA	0 VA	1	20 A		EXISTING SOUTH CATWALK UPLGTS S	3
37	EXISTING SERVICE COLOR		100 A	3	0 VA	0 VA			UVA	UVA	1	20 A		EXISTING SOUTH CATWALK UPLGTS S	3
	EXISTING AFMIX CTTP				UVA	UVA	0.1/4	0.1/4			1				
39	-						0 VA	0 VA	0.144	0.144	1	20 A		EXISTING SOUTH CATWALK UPLGTS S	4
41				<u> </u>					0 VA	1	1	20 A		EXISTING SOUTH CATWALK UPLGTS S	4
				Load:		VA		VA		VA .					
-egend	l:		Total	Amps:	0	Α	0	A	0	A					
₋oad C	lassification		Conn	ected L	oad_	Den	nand Fa	ctor	Estim	nated De	mand			Panel Totals	
														Total Conn. Load: 0 VA	
														Total Est. Demand: 0 VA	
														Total Conn.: 0 A	
														Total Est. Demand: 0 A	
Notes:															

	Location: JANITOR 131 Supply From: L1 Mounting: SURFACE Enclosure: Type 1					F	Volts: Phases: Wires:	-	3 Wye					A.I.C. Rating: Mains Type: MLO Mains Rating: 100 A MCB Rating:		
Notes:																
СКТ	Circuit Description	Wire	Trin	Poles		A		В	C	•	Poles	Trin	Wire	Circuit	Description	CK
1	TOILET SENSOR	#12	20 A	1		180 VA				_	1	20 A		SOAP/ WATER FAUC	•	2
3	HAND DRYER	#12	20 A	1			180 VA	180 VA			1	20 A		HAND DRYER		
5	SOAP/ WATER FAUCET SENSOR	#12	20 A	1					180 VA	180 VA	1	20 A	#12	HAND DRYER		(
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		SOAP/ WATER FAUC	ET SENSOR	1
11	RECEPTACLE	#12	20 A	1					180 VA	180 VA	1	20 A	#12	HAND DRYER		1
13	HAND DRYER	#12	20 A	1	180 VA	180 VA					1	20 A	#12	SOAP/ WATER FAUC	ET SENSOR	1
15	PAPERTOWEL DISPENSER	#12	20 A	1			720 VA	180 VA			1	20 A		SOAP/ WATER FAUC		1
17	HAND DRYER	#12	20 A	1					180 VA	180 VA	1	20 A		HAND DRYER		1
19	RECEPTACLE	#12	20 A	1	180 VA	900 VA					1	20 A	#12	TOILET SENSOR		2
21	TOILET SENSOR	#12	20 A	1			540 VA	720 VA			1	20 A	#12	TOILET SENSOR		2
23	SOAP/ WATER FAUCET SENSOR	#12	20 A	1					180 VA	180 VA	1	20 A	#12	HAND DRYER		2
25	HAND DRYER	#12	20 A	1	180 VA	180 VA					1	20 A	#12	SOAP/ WATER FAUC	ET SENSOR	2
27	HAND DRYER	#12	20 A	1			180 VA	180 VA			1	20 A	#12	HAND DRYER		2
29	HAND DRYER	#12	20 A	1					180 VA	180 VA	1	20 A	#12	HAND DRYER		3
31	SOAP/ WATER FAUCET SENSOR	#12	20 A	1	180 VA	180 VA					1	20 A	#12	RECEPTACLE		3
33	HAND DRYER	#12	20 A	1			180 VA	180 VA			1	20 A	#12	HAND DRYER		3
35	SOAP/ WATER FAUCET SENSOR	#12	20 A	1					180 VA	180 VA	1	20 A	#12	PAPERTOWEL DISPI	ENSER	3
37	SOAP/ WATER FAUCET SENSOR	#12	20 A	1	180 VA	180 VA					1	20 A	#12	HAND DRYER		3
39	HAND DRYER	#12	20 A	1			180 VA	180 VA			1	20 A	#12	RECEPTACLE		4
41	TOILET SENSOR	#12	20 A	1					720 VA	180 VA	1	20 A	#12	HAND DRYER		4
43	HAND DRYER		20 A	1	180 VA	360 VA					1	20 A		SOAP/ WATER FAUC	ET SENSOR	4
	SOAP/ WATER FAUCET SENSOR	#12	20 A	1			360 VA	720 VA			1	20 A		RECEPTACLE		4
47	RECEPTACLE	#12		1					180 VA	720 VA	1	20 A		RECEPTACLE		4
49	Lighting	#12	20 A	1	194 VA	180 VA					1	20 A		TOILET SENSOR		5
51	Spare		20 A	1			0 VA	3935			3	100 A		PANEL L3		5
53	Spare		20 A	1					0 VA	2880						5
55	Spare		20 A	1	0 VA	4140										5
57	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare		5
	•		Total	Load:	829	4 VA	897	5 VA	6840) VA		l				
			Total .			1 A	77	' A	57	Α	1					
Legend	:															
	assification		Conn				nand Fa		Estim	ated De				Panel	Totals	
∟ighting Power				348 VA 3900 V			125.00%			435 VA 18900 VA				Total Conn. Load:	24108 \/^	
Power Recepta	nelo			860 V			100.00% 100.00%			18900 VA 4860 VA				Total Conn. Load:		
recepte	IUG		4	OUU VA	`		100.00%	ı		+000 VA	<u>.</u>			Total Conn.:		
														Total Est. Demand:		
														rotar Est. Dellialiu.	OI A	
Notes:															1	



7800 Airport Blvd Houston, TX 77061

> **HOU RESTROOM RENOVATIONS** PHASE 2

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

RDLR Architects ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 Houston, TX 77003

www.rdlr.com onsulting Mechanical/Electrical/Plumbing Engineer

9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766 Texas Registered Engineering Firm #F-3811

713.868.3121

DESIGNER PROJECT No.: 1429.05 PROJECT STATUS:

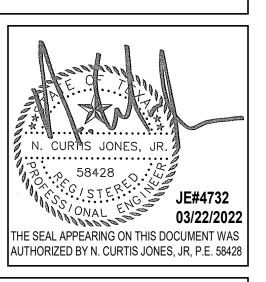
REVISIONS DATE BY No. DESCRIPTION

03.22.22 JE Issue for Bidding

ALEX CASTRO **DESIGN BY:** ALEX CASTRO DRAWN BY: RON HUGHES CHECKED BY: 03.22.22 ISSUE DATE: N CURT JONES APPROVED BY: APPROVAL DATE:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

ISSUED FOR BIDDING



ELECTRICAL SCHEDULES

EG401 SCALE:

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - EG401 - 1

	Location: Supply From: Mounting: SURFACE Enclosure: Type 1						Valte	480/277	7 \/\/\					A.I.C. Rating:		
	Eliciosule: Type T					F	Phases: Wires:	3	vvye				N	Mains Type: MCB Mains Rating: 100 A MCB Rating: 100 A		
otes: EXIS	STING PANEL															
СКТ	Circuit Description	Wire	Trin	Poles		4	E	2	С	•	Poles	Trin	Wire	Circuit F	Description	СК
	EXISTING EXIT LTS - N SIDE		20 A	1	0 VA	0 VA	-			<u> </u>	1	20 A		EXISTING CVRD ARE		2
	EXISTING MECH ELEC RM LTS		20 A	1	0 771	0 771	0 VA	0 VA			1	20 A		EXISTING L1 SW ARE		4
	EXISTING L1 SW AREA LTS		20 A	1			3 771	3 771	0 VA	0 VA	1	20 A		EXISTING L1 SW ARE		6
	EXISTING L1 SW AREA LTS		20 A	1	0 VA	0 VA			J 1/1	/-	1	20 A		EXISTING L1 SW ARE		8
	EXISTING L1 SW AREA LTS		20 A	1	5 771		0 VA	0 VA			1	20 A		EXISTING L1 SW ARE		1
	EXISTING L1 SW AREA LTS		20 A	1			2 7/1	5 771	0 VA	0 VA	1	20 A		EXISTING L1 SW ARE		1
	EXISTING HDRM PDT LTS - N SIDE		20 A	1	0 VA	0 VA				/ \	1	20 A		EXISTING BTHRM LT		1
	EXISTING BLKHD PDT LTS - N SIDE		20 A	1			0 VA	0 VA			1	20 A		EXISTING HLDRM PD		1
	EXISTING HDRM PDT LTS - S SIDE		20 A	1					0 VA	0 VA	1	20 A		EXISTING BLKHD PD		1
19 E	XISTING BLKHD PDT LTS - N SIDE		20 A	1	0 VA	0 VA					1	20 A		EXISTING HLDRM PD	T LTS - S SIDE	2
21 E	EXISTING EXIT LTS		20 A	1			0 VA	0 VA			1	20 A		EXISTING EXIT LTS		2
23 E	EXISTING N CATWALK LTS - S SODE		20 A	1					0 VA	0 VA	1	20 A		EXISTING S CATWAL	K UP LTS S SIDE	2
25 E	EXISTING CONCES SPT LTS RM 13001		20 A	1	0 VA	0 VA					3	50 A		EXISTING XFMR EMO	1TF 30 KVA	2
27 E	EXISTING TEMP LTS LVL 2-SECT 30		20 A	1			0 VA	0 VA								28
29 E	EXISTING TEMP LTS LVL 2-SECT 30		20 A	1					0 VA	0 VA						30
31 S	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare		3:
33 S	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare		3.
35 S	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare		3
37 S	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare		3
39 S	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare		4
41 S	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare		4
			Total	Load:	0 '	VA	0 \	√A	0 V	Ά						•
			Total .	Amps:	0	Α	0	Α	0 /	4						
egend:																
oad Cla	ssification		Conn	ected L	.oad	Dem	nand Fa	ctor	Estim	ated De	mand			Panel	Totals	
														Total Conn. Load:		
														Total Est. Demand:		
														Total Conn.:		
														Total Est. Demand:	0 A	
						i			1			1				

lotoo	Location: JANITOR 13 Supply From: L2 Mounting: SURFACE Enclosure: Type 1	8				i	Volts: Phases: Wires:	-	3 Wye					A.I.C. Rating: Mains Type: MLO Mains Rating: 100 A MCB Rating:	
Notes:															
СКТ	Circuit Description	Wire	Trin	Poles	,	^		В		С	Polos	Trip	Wiro	Circuit Description	CI
1	Circuit Description	vvire	ппр	roles		4 180 VA		<u>Б</u>			1	20 A		HAND DRYER	
3	HAND DRYER	#12	20 A	1		100 VA	190 \/A	180 VA			1	20 A		SOAP/ WATER FAUCET SENSOR	4
 5	HAND DRYER	#12	20 A	1			100 VA	100 VA	190 \/^	180 VA	1	20 A		HAND DRYER	
				1	180 VA	100 \/A			100 VA	100 VA					(
7	SOAP/ WATER FAUCET SENSOR	#12	20 A	1	160 VA	100 VA	100 \ / ^	100 \ / ^			1	20 A		SOAP/ WATER FAUCET SENSOR	8
9	HAND DRYER	#12	20 A	1			180 VA	180 VA		000:::	1	20 A		HAND DRYER	1
11	TOILET SENSOR	#12	20 A	1					180 VA	900 VA	1	20 A		TOILET SENSOR	1:
13	SOAP/ WATER FAUCET SENSOR	#12	20 A	1	180 VA	180 VA					1	20 A		HAND DRYER	1.
15	HAND DRYER	#12	20 A	1			180 VA	180 VA			1	20 A		SOAP/ WATER FAUCET SENSOR	1
17	HAND DRYER	#12	20 A	1					180 VA	180 VA	1	20 A	#12	HAND DRYER	1
19	HAND DRYER	#12	20 A	1	180 VA	180 VA					1	20 A	#12	HAND DRYER	2
21	SOAP/ WATER FAUCET SENSOR	#12	20 A	1			180 VA	180 VA			1	20 A	#12	RECEPTACLE	2
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	180 VA	1260					1	20 A	#12	PAPERTOWEL DISPENSER	20
27	TOILET SENSOR	#12	20 A	1			900 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	SOAP/ WATER FAUCET SENSOR	30
31	HAND DRYER	#12	20 A	1	180 VA	180 VA					1	20 A		HAND DRYER	32
33	SOAP/ WATER FAUCET SENSOR	#12	20 A	1			180 VA	180 VA			1	20 A		PAPERTOWEL DISPENSER	34
	RECEPTACLE		20 A	1			100 171	100 171	720 VA	900 VA	-			RECEPTACLE	3
	RECEPTACLE	_	20 A	1	720 V/A	155 VA			720 771	300 V/1	1	-		Lighting	3
			20 A	1	720 VA	100 VA	0 VA	0 VA			1	20 A		Spare	4
	Spare			-			UVA	UVA	0.1/4	0.1/4				-	
	Spare		20 A	1	0.1/4	0.144			0 VA	0 VA	1	20 A		Spare	4
	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	4
	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	4
47	Spare		20 A						0 VA	0 VA	1	20 A		Spare	48
				Load:		5 VA		0 VA		0 VA					
			Total	Amps:	34	A	24	4 A	36	6 A					
.egend	:														
	lassification			ected L	oad_		nand Fa		Estin	nated De				Panel Totals	
ighting				55 VA			125.00%			194 VA				Total Comp. Leads 40055 VA	
Power				280 VA			100.00%			8280 VA				Total Conn. Load: 10955 VA	
Recepta	acle		2	520 VA			100.00%	o .		2520 VA				Total Est. Demand: 10994 VA	
														Total Conn.: 30 A	
														Total Est. Demand: 31 A	
lotes:															

	Supply From: Mounting: SURFACE Enclosure: Type 1					I	Phases: Wires:	Not Cor Not Cor	•					Mains Type: MCB Mains Rating: 100 A MCB Rating: 100 A		
lotes:	STING PANEL															
СКТ	Circuit Description	Wire	Trip	Poles		A	E	3	(:	Poles	Trip	Wire	Circuit D	escription	CK.
1	EXISTING BAGGAGE AREA LTS		20 A	1	0 VA	0 VA					1	20 A		EXISTING BAGGAGE	AREA LTS	2
3	EXISTING BAGGAGE AREA LTS		20 A	1			0 VA	0 VA			1	20 A		EXISTING BAGGAGE	AREA LTS	4
5	EXISTING BHS RM STAIRS, ELEC RM LTS		20 A	1					0 VA	0 VA	1	20 A		EXISTING SCANNER I		6
7	EXISTING ACU C-105		20 A	1	0 VA	0 VA					1	20 A		EXISTING CBRA RM L	TS	8
9	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare		10
11	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare		12
13	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare		14
15	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare		10
17	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare		18
19	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare		2
21	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare		22
23	Spare		20 A	1					0 VA	0 VA	1	20 A		EXISTING RR LTS L2		24
25	EXISTING NODE AREA EAST LTS		20 A	1	0 VA	0 VA					1	20 A		Spare		26
27	Spare		20 A	1			0 VA	0 VA	0.1/4	0.144	1	20 A		Spare		28
29	Spare		20 A	1	0.1/4	0.1/4			0 VA	0 VA	1	20 A		Spare		30
31	Spare		20 A	1	0 VA	0 VA	0.1/4	0.1/4			1	20 A		Spare		32
33	Spare		20 A	1			0 VA	0 VA	0.1/4	0.144	1	20 A		Spare		34
35	Spare		20 A	1	0.1/4	0.1/4			0 VA	0 VA	1	20 A		Spare		36
37	EXISTING XFMR EMC1TE		50 A	3	0 VA	0 VA	0.1/4	0.1/4			1	20 A		Spare		38
39							0 VA	0 VA			1	20 A		Spare		40
41									0 VA	0 VA	1	20 A		Spare		42
			Total A	Load:	0	VA	0 \	VA	0 \	/A						
egend	assification			ected L	oad.	Den	nand Fa	ctor	Estim	ated De	mand			Panel 1	- otals	
														Total Conn. Load:		
														Total Est. Demand:		
														Total Conn.:		
														Total Est. Demand:	Not Computed	
lotes:																

Notes:	Branch Panel: EMC' Location: Supply From: Mounting: SURFACE Enclosure: Type 1	ILF				ı	Volts: Phases: Wires:		3 Wye				ľ	A.I.C. Rating: Mains Type: MCB Mains Rating: 100 A MCB Rating: 100 A		
EXI	STING PANEL															
СКТ	Circuit Description	Wire	Trip	Poles		A		В	C	;	Poles	Trip	Wire	Circuit I	Description	СК
1	EXISTING COMM RM REC		20 A	1	0 VA	0 VA					1	20 A		EXISTING COMM RM	<u> </u>	2
3	EXISTING COMM RM REC		30 A	2			0 VA	0 VA			1	20 A		EXISTING ELEV E-5 (CONTROLS	4
5									0 VA	0 VA	1	20 A		EXISTING ELEC RM I	REC	6
7	EXISTING GATE COUNTER		20 A	1	0 VA	0 VA					1	20 A		EXISTING VALVE MO		8
9	EXISTING GATE COUNTER		20 A	1			0 VA	0 VA			1	20 A		EXISTING FIRE ALAR		10
11	EXISTING PARADIES STORAGE		20 A	1					0 VA	0 VA	1	20 A		EXISTING RR AUTO I	FLUSH	1:
13	EXISTIN F/A PANEL		20 A	1	0 VA	0 VA					1	20 A		EXISITING F/A PANE		1
15	EXISTING EFSO PLC		20 A	1			0 VA	0 VA			3	20 A		EXISTING SPRINKLE		1
17	Spare		20 A	1					0 VA	0 VA						18
19	Spare		20 A	1	0 VA	0 VA			-							2
21	EXISTING CNN TEL. SOUTH		20 A	1			0 VA	0 VA			1	20 A		Spare		22
23	Spare		20 A	1			,.		0 VA	0 VA	1	20 A		Spare		2
25	Spare		20 A	1	0 VA	0 VA			,,		1	20 A		Spare		26
27	Spare		20 A	1		3 .71	0 VA	0 VA			1	20 A		Spare		28
29	Spare		20 A	1			,.		0 VA	0 VA	1	20 A		Spare		30
31	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare		3
33	Spare		20 A	1		3 .71	0 VA	0 VA			1	20 A		EXISTING OPS OFFICE	CE REC	34
35	Spare		20 A	•			3 171		0 VA	0 VA	1	20 A		EXISTING OPS OFFICE		36
37	EXISTING TVSS		20 A	3	0 VA	0 VA				J 771	1	20 A		EXISTING OPS OFFICE		38
39						3 771	0 VA	0 VA			1	20 A		EXISTING OPS OFFICE		40
41							3 77	0 17	0 VA	0 VA	1	20 A		EXISTING OPS OFFICE		42
71	1			Load:	0	VA	0.1	VA	0 VA		ı	20 A		LAIGHING OF 3 OFFIC	OL NEO	4,
			Total			A A		A	0 0							
_egend _oad C	l: classification			ected L			nand Fa			ated De	mand			Panel	Totals	
														Total Conn. Load:	0.1/4	
														Total Est. Demand:		
														Total Conn.:		
														Total Est. Demand:		
														TOTAL EST. DEITIAIR.		
												+				
Notes:		ı				•			1						,	



7800 Airport Blvd Houston, TX 77061

> HOU RESTROOM RENOVATIONS PHASE 2

RDLR Architects ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104

Houston, TX 77003 www.rdlr.com

9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766 Texas Registered Engineering Firm #F-3811

713.868.3121

DESIGNER PROJECT No.: PROJECT STATUS: **REVISIONS**

No. DESCRIPTION

Issue for Bidding

DATE BY

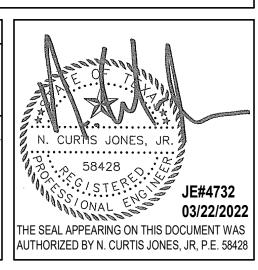
03.22.22 JE

Designer **DESIGN BY:** DRAWN BY: Checker CHECKED BY: ISSUE DATE: Approver **APPROVED BY:**

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

ISSUED FOR BIDDING

APPROVAL DATE:



ELECTRICAL SCHEDULES

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - EG402 - 1

LOAD ANALYSIS Demand Estimated Demand Estimated Demand Load Classification Connected Load (VA) Current PEAK KVA X 125% 35000 VA 125.00% 43750 VA 53 A 568 VA 125.00% 710 VA 1 A 7380 VA 100.00% 7380 VA 9 A Receptacle 163040 VA 100.00% 163040 VA 196 A Total Connected Load (VA): 205988 VA Total Demand Load (VA): 214880 VA **Total Current:** 258 A 480/277 Wye, 3 Phase, 4 Wire Service

Branch Panel: C1HR A.I.C. Rating: Location: Volts: 480/277 Wye Supply From: Phases: 3 Mains Type: MCB Mains Rating: 400 A Mounting: SURFACE MCB Rating: 400 A Enclosure: Type 1 **EXISTING PANEL Circuit Description** 1 EXISTING PC AIR AHU GATE 22 7 EXISTING PC AIR AHU GATE 26 11 -13 Spare
15 -17 -19 Spare
21 -23 -25 Spare
27 -29 -31 Space
33 Space
35 Space 37 Space 39 Space 41 Space Total Amps: 0 A 0 A Load Classification Panel Totals Demand Factor Estimated Demand Total Conn. Load: 0 VA Total Est. Demand: 0 VA Total Conn.: 0 A Total Est. Demand: 0 A

Notes: EXISTII	Location: ELEC ROOM 13 Supply From: DP Mounting: SURFACE Enclosure: Type 1	127				F	Volts: Phases: Wires:		7 Wye				ľ	A.I.C. Rating: Mains Type: MCB Mains Rating: 225 A MCB Rating: 225 A		
		\		Dalas		_								0:		OVE
CKT	Circuit Description	vvire	Trip 25 A	Poles 1	5000	A 2500		В	(<i>,</i>	Poles 1	20 A	vvire		Description	CKT
3	Existing Load Existing Load		25 A 20 A	1	5000	2500	2800	4500			1	20 A		Existing Load Existing Load		2
	Existing Load Existing Load		20 A	<u> </u>			2600	4500	4500	2800	1	20 A		Existing Load		6
7			20 A	1	4500	9700			4500	2000	3	20 A		EXISTING AHU C141	7.5. UD	8
	Existing Load		20 A	-	4300	0/00	4500	0 VA							1.0 NF	
9	Existing Load		20 A	1			4300	UVA	4500	0 VA						10 12
11	Existing Load EXISTING TRANSFORMER C1TW 75KVA			1	7500	11700			4500	UVA		 25 A		EXISITING AHU C142) 10 UD	
15			125 A	3	7 300	11/00	0 VA	0 VA			3	25 A			. IU TF	14 16
17							UVA	UVA	0 VA	0 VA						
	SPARE				0.1/4	15522			UVA	UVA		70 4	 -	TRANSFORMER 45K	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	18
19			20 A	1	0 VA	15533	0.1/4	1110			3	70 A		TRANSFURIVIER 45K	VA	20
21	SPARE		20 A	1			UVA	1419	0.1/4	4000						22
23	SPARE		20 A	1					0 VA	1026	<u>Viiu</u>	uuu.	uu		<u></u>	<u> </u>
25																26
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35																36
37																38
39																40
41																42
			Total			33 VA		95 VA	2206							
			Total A	Amps:	44	6 A	96	6 A	80	Α						
Legend	classification		Conne				nand Fa		Estim	ated De				Panel	Totals	
_ighting)			68 VA			125.00%			710 VA						
Power				3040 V			100.00%			63040 V				Total Conn. Load:		
Recepta	acle		73	380 VA	`	_	100.00%)		7380 VA	١			Total Est. Demand:		
														Total Conn.:		
														Total Est. Demand:	206 A	
																

7800 Airport Blvd Houston, TX 77061

> **HOU RESTROOM RENOVATIONS** PHASE 2

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

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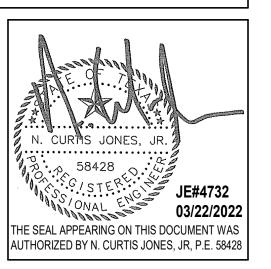
DESIGNER PROJECT No.: 1429.05 PROJECT STATUS: **REVISIONS**

DATE BY No. DESCRIPTION 03.22.22 JE Issue for Bidding

Designer **DESIGN BY:** Author DRAWN BY: Checker CHECKED BY: 03.22.22 ISSUE DATE: Approver APPROVED BY: 03/22/2022 APPROVAL DATE:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

ISSUED FOR BIDDING



ELECTRICAL SCHEDULE EG403 SCALE:

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - EG403 - 1

GENERAL LIGHTING DEMOLITION NOTES: 1. ALL LIGHTING TO BE REMOVED. REMOVE LIGHT FIXTURES, CONDUIT AND WIRE BACK TO NEAREST JUNCTION BOX. EXISTING BRANCH CIRCUIT ARE TO REMAIN AND BE REUSED FOR NEW LIGHTING. REFER TO LIGHTING PLANS FOR NEW GENERAL POWER DEMOLITION NOTES: CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES IN THE AREA OF WORK. ELECTRICAL CONDUIT, BOX, AND BRANCH CIRCUITS ARE TO BE REMOVED ALL THE WAY TO THE SOURCE PANEL. UNLESS OTHER WISE NOTED.
 REMOVE ALL FIRE ALARM DEVICES. C.I.P. No. C.O.H. No. **PLAN KEY NOTES** JUNCTION BOX FOR PASSENGER COUNTER. REMOVE AND STORE. REFER TO POWER PLANS FOR JUNCTION BOX FOR SMART RESTROOM DEVICE. REMOVE AND PLACE IN OWNER STOCK. EXISTING RECEPTACLE TO REMAIN. REMOVE CONDUIT AND WIRE BACK TO THE SOURCE PANEL.
REFER TO POWER PLANS FOR NEW CIRCUITING. JUNCTION BOX FOR BEACON SCANNERS. REMOVE AND STORE. REFER TO POWER PLANS FOR NEW LOCATION. 5 DISCONNECT EXHAUST FAN. Houston, TX 77003 6 EXISTING JUNTION BOX FOR SIGN / DAMPER TO REMAIN.
7 EXISTING DISCONNECT SWITCH FOR EDF CHILLER TO REMAIN. PLUMBING CHASE PLUMBING CHASE **DESIGNER PROJECT No.:** PROJECT STATUS: No. DESCRIPTION **Issue for Bidding DESIGN BY:** ISSUED FOR BIDDING 1 DEMO ELECTRICAL PLAN - GATE 20-23 Aconex File Name: I-19-C-925F - ED101 - 1



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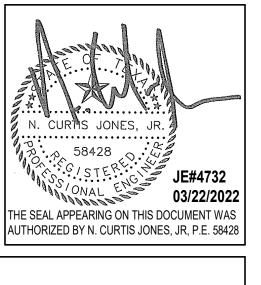
REVISIONS

DATE BY

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

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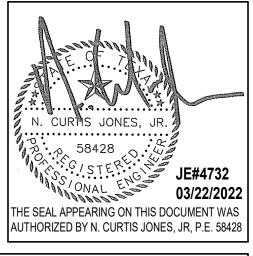
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ELECTRICAL DEMOLITION PLANS - GATE 20-23 RESTROOMS



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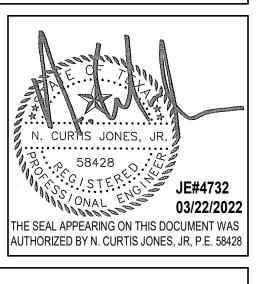
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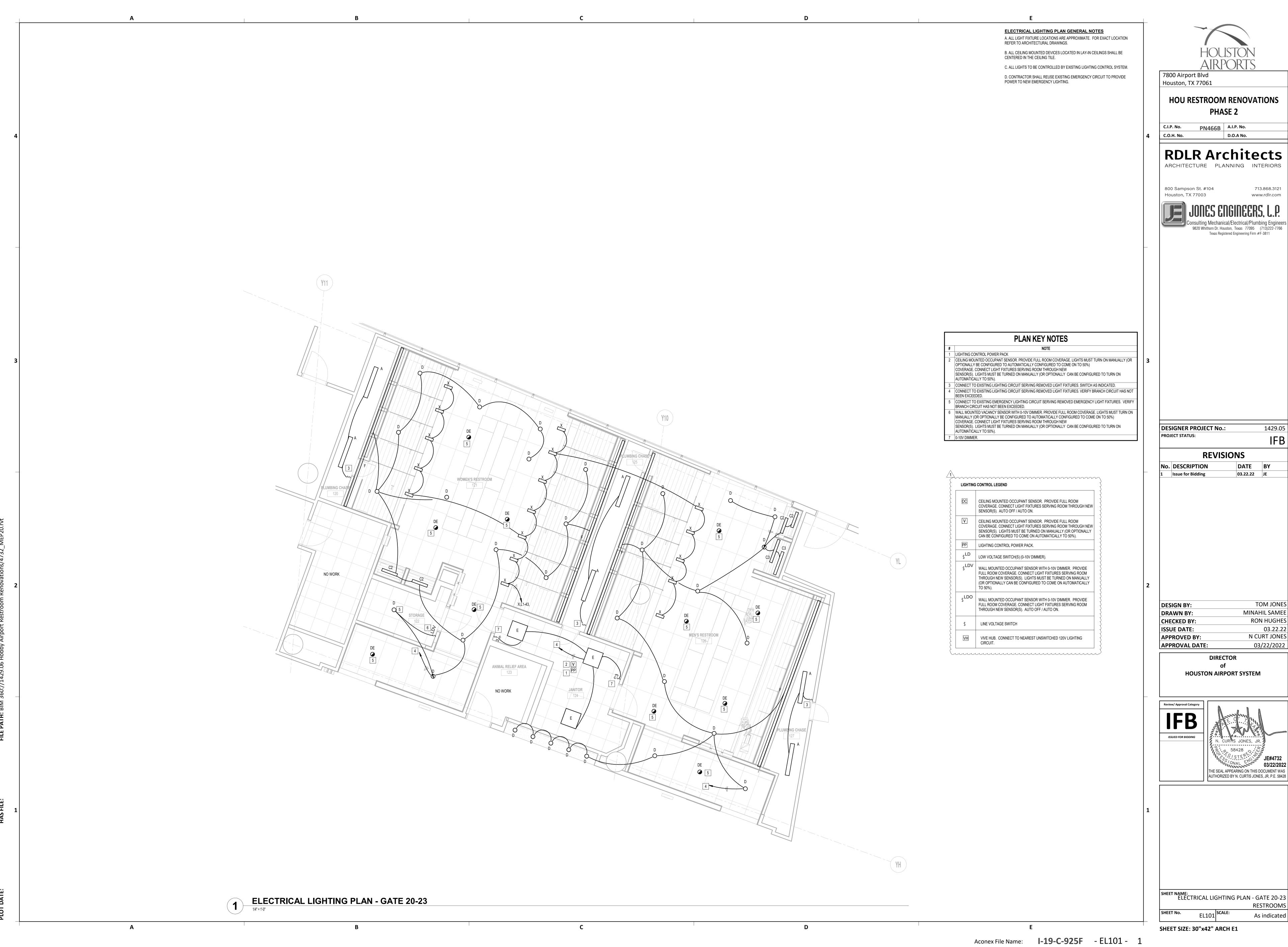
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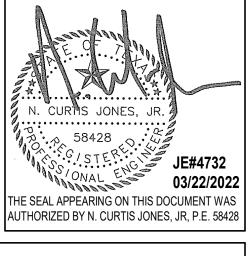


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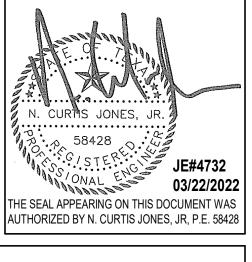
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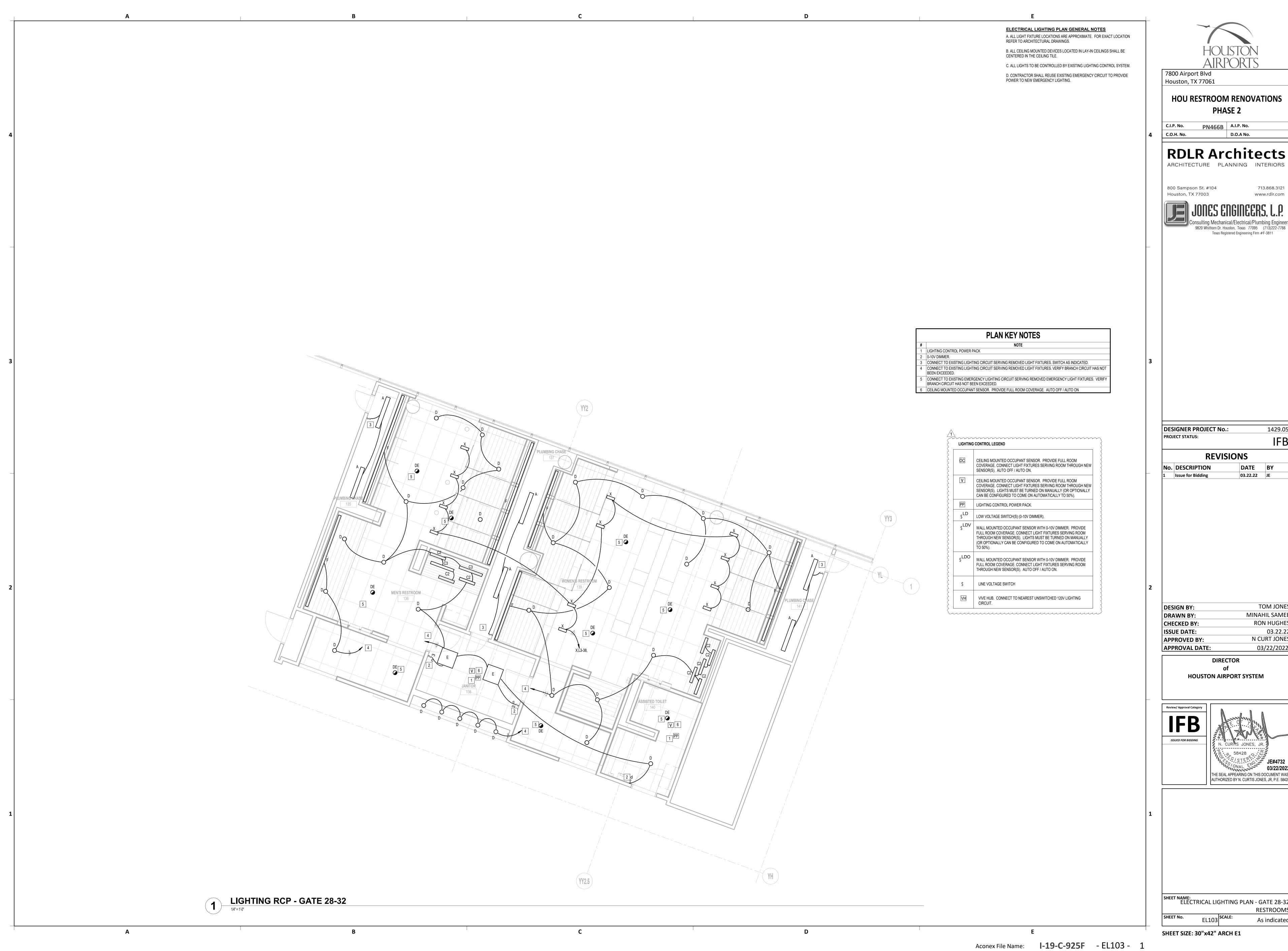
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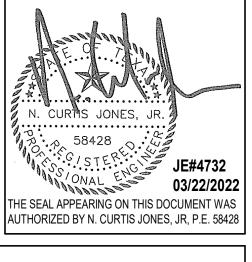
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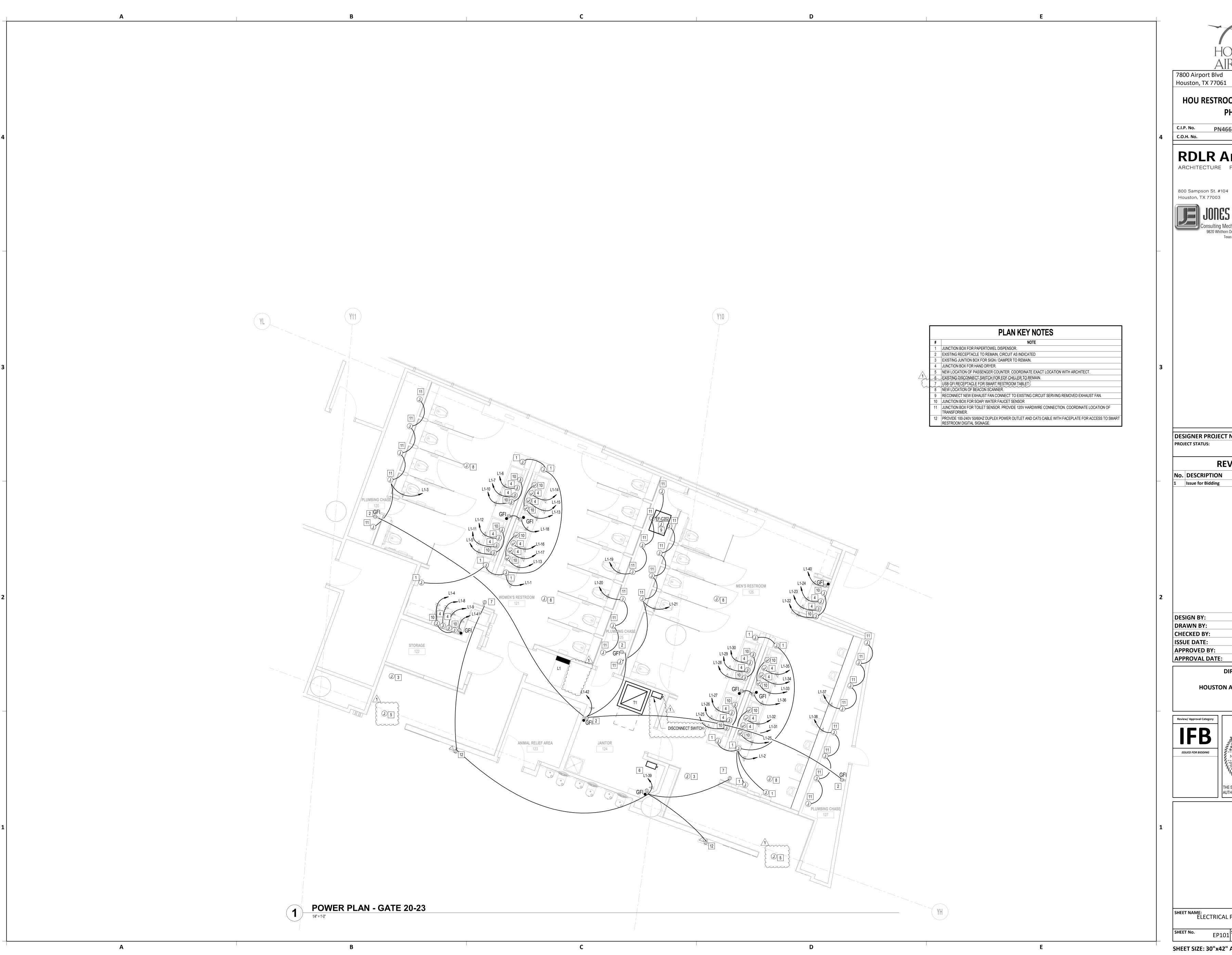
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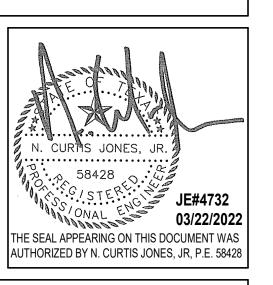
DESIGNER PROJECT No.: 1429.05 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY

Issue for Bidding

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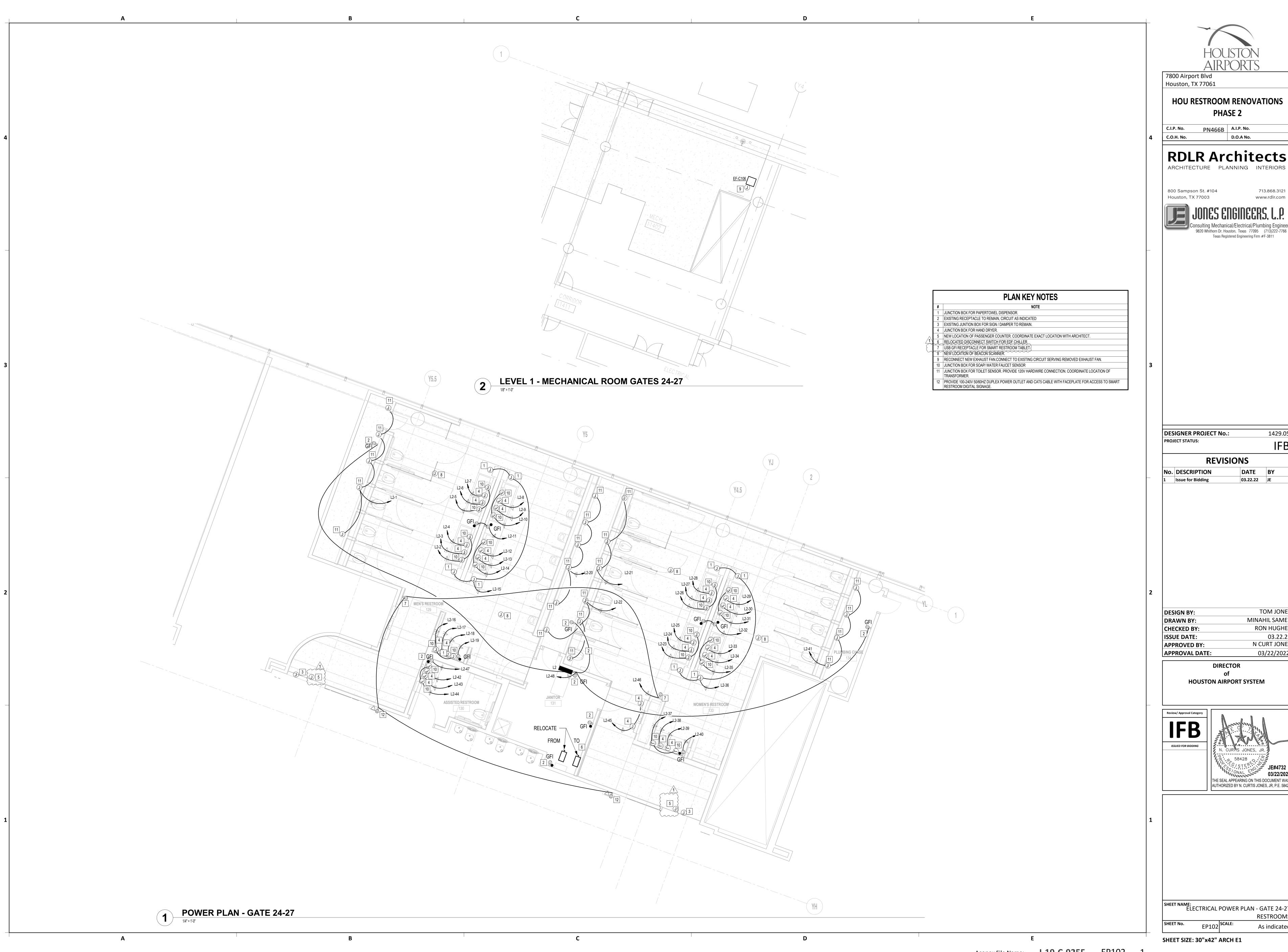
TOM JONES **DESIGN BY:** MINAHIL SAMEE DRAWN BY: RON HUGHES CHECKED BY: 03.22.22 ISSUE DATE: APPROVED BY: N CURT JONES

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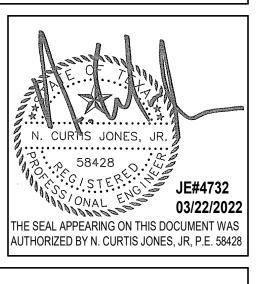
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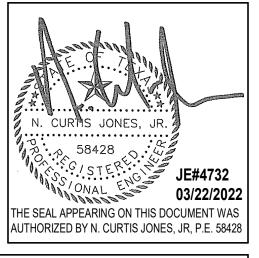


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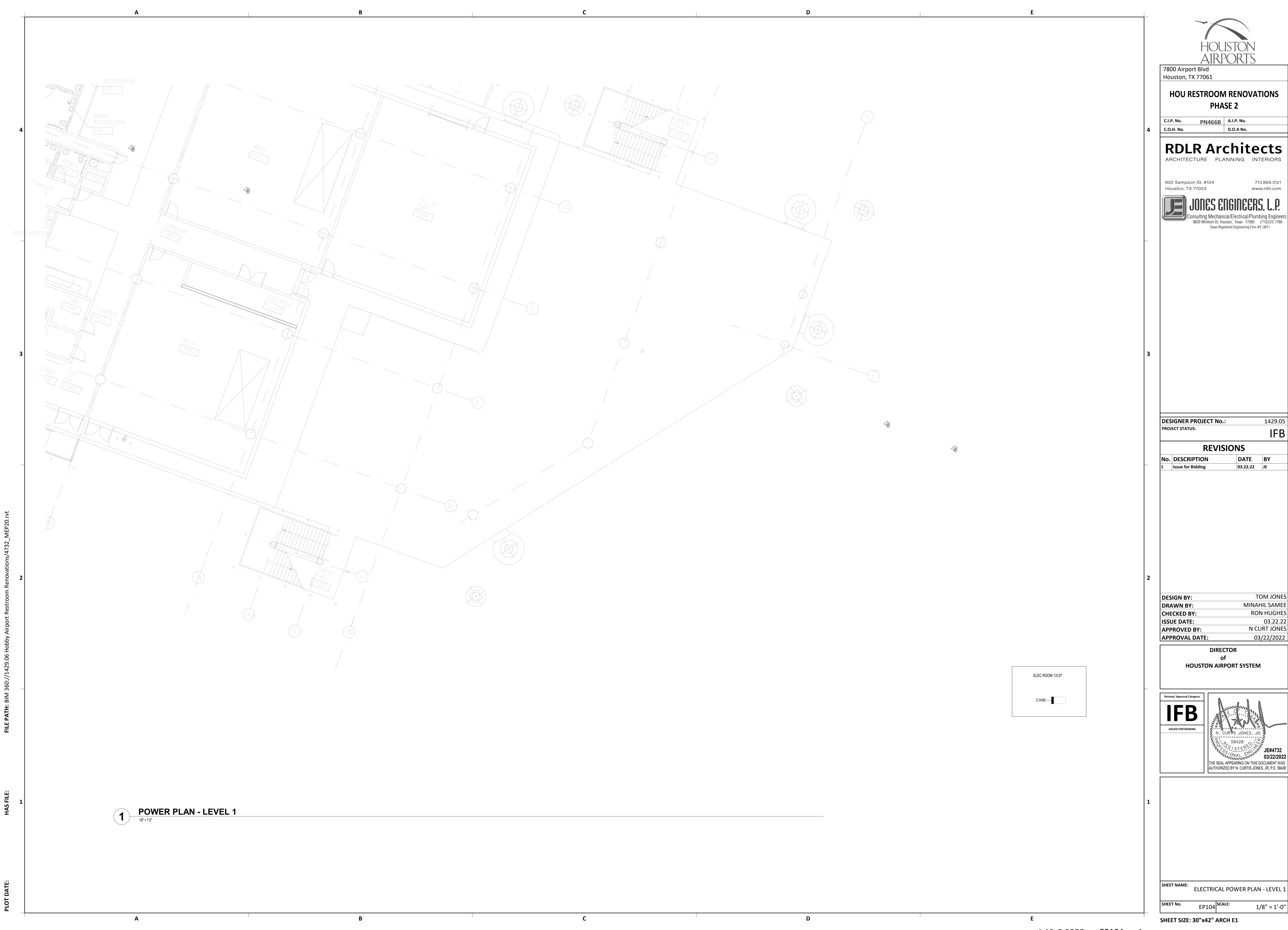
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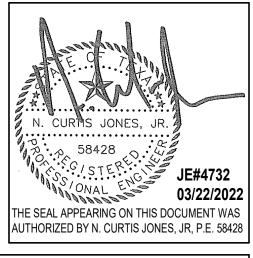


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SHEET NAME: ELECTRICAL POWER PLAN - LEVEL 1



Houston, TX 77061

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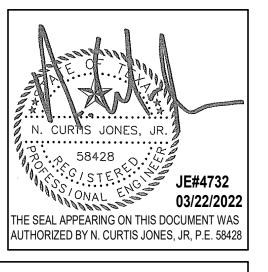
Consulting Mechanical/Electrical/Plumbing Engineers 9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766 Texas Registered Engineering Firm #F-3811

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SHEET NAME: FIRE ALARM PLAN - GATE 20-23 RESTROOMS 1/4" = 1'-0"





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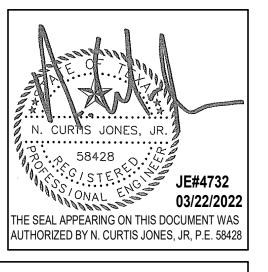
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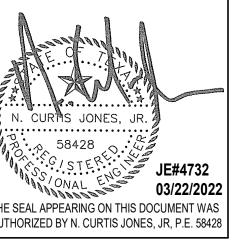


1/4" = 1'-0"

SHEET NAME: FIRE ALARM PLAN - GATE 24-27 RESTROOMS



ALEX CASTRO ALEX CASTRO RON HUGHES



WORK AREA NOTIFICATION

DEGREE(S) FAHRENHEIT

WITH

W.A.N.

PLUMBING GENERAL DEMOLITION NOTES

1. PRIOR TO BEGINNING EXCAVATIONS OR DEMOLITION OF ANY NATURE WHATSOEVER, CONTRACTOR SHALL LOCATE ALL SERVICES AND UTILITIES OCCURRING WITHIN THE BOUNDS OF THE PROJECT. THE CONTRACTOR SHALL THEN PROCEED WITH CAUTION IN HIS WORK SO THAT NO UTILITY OR LINE SERVING AREAS THAT ARE TO REMAIN IS DAMAGED WITH A RESULTANT LOSS OF SERVICE. VERIFY THE SOURCE AND SERVICE OF EACH AND EVERY LINE ENCOUNTERED AND RECORD EACH SERVICE, SIZE, AND LOCATION ON RECORD DRAWINGS.

ALL PLUMBING FIXTURES AND EQUIPMENT REMOVED SHALL BE SUBMITTED TO THE OWNER WITH THE OPTION TO BE REUSED. ITEMS THE OWNER DOES NOT WISH TO REUSE BUT WISHES TO RETAIN SHALL BE DELIVERED TO STORAGE AS DIRECTED BY THE OWNER. ITEMS THE OWNER DOES NOT WISH TO REUSE OR RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY.

PLUG PIPES AND PATCH FLOOR FLUSH WITH EXISTING SLAB ON GRADE AT ANY

PLUMBING FLOOR PENETRATIONS NO LONGER REQUIRED. CONTRACTOR SHALL REMOVE ALL PIPING AND ASSOCIATED SUPPORTS FROM ABOVE SLAB ON GRADE TO BELOW ROOF WHICH WAS PREVIOUSLY ABANDONED OR WHICH SERVES PLUMBING FIXTURES AND EQUIPMENT DESIGNATED FOR REMOVAL. REFER TO PLUMBING FLOOR PLANS FOR NEW FIXTURES OR EQUIPMENT TO BE INSTALLED IN THOSE LOCATIONS. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY FIXTURES OR EQUIPMENT TO REMAIN. CAP REMOVED BRANCH LINES AS CLOSE AS POSSIBLE TO EXISTING MAINS.

5. ALL PLUMBING FIXTURES AND EQUIPMENT NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY

DISCREPANCIES OR CONFLICTS FOUND IN THE FIELD. 6. CONTRACTOR SHALL FIELD VERIFY AS NECESSARY THE EXACT LOCATION OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT TO BE REMOVED. REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION AS REQUIRED.

COORDINATE EACH AND EVERY INTERRUPTION OF SERVICES AND UTILITIES IN ADVANCE WITH THE OWNER, FIRE DEPARTMENT, AND UTILITY COMPANIES TO ENSURE MINIMAL SHUT DOWN TIMES THAT ARE ACCEPTABLE TO THE OWNER AND AUTHORITIES.

APPLICABLE CODES AND STANDARDS

HOUSTON AIRPORT SYSTEM AND MODULAR RESTROOM DESIGN STANDARDS PLUMBING CODE - 2012 UNIFORM PLUMBING CODE WITH CITY OF HOUSTON AMENDMENTS. BUILDING CODE - 2012 INTERNATIONAL BUILDING CODE WITH CITY OF HOUSTON AMENDMENTS. 2012 INTERNATIONAL FIRE CODE WITH CITY OF HOUSTON AMENDMENTS 2012 UNIFORM MECHANICAL CODE WITH CITY OF HOUSTON AMENDMENTS SHRAE 90.1-2013 WITH CITY OF HOUSTON AMENDMENTS

WHERE TWO OR MORE STANDARDS ARE APPLICABLE, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

SHEET NAMING FORMAT

- LEVEL 1 DISCIPLINE DESIGNATOR LEVEL 2 DISCIPLINE DESIGNATOR SHEET TYPE DESIGNATOR SHEET SEQUENCE NUMBER USER-DEFINED DESIGNATORS **** AANNN.NN

NOTE THAT PLUMBING LEVEL 2 DISCIPLINE DESIGNATORS ARE 'G,' 'D' AND 'J.' 'J' IS AN USER-DEFINED DESIGNATOR PERMITTED BY NATIONAL CAD STANDARDS AND FOR THIS PROJECT IS DEFINED AS INCLUDING PLUMBING PIPING, VALVES AND INSULATION, EXTENSIONS AND CONNECTIONS TO CIVIL UTILITIES, PUMPS AND TANKS. **USER-DEFINED DESIGNATORS AFTER THE PERIOD** FOR THIS PROJECT, THESE DESIGNATORS INDICATE THE AREA OF WORK WITH THE LOWEST ASSIGNED NUMBER. SEE KEY PLAN FOR AREAS.

PLUMBING SHEET LIST

2017 NATIONAL ELECTRIC CODE

DWG NAME PG001 PLUMBING ABBREVIATIONS, LEGENDS AND NOTES PG100 PLUMBING OVERALL RENOVATION PLAN - LEVEL 2 PD101 PLUMBING DEMOLITION PLAN - GATE 20-23 RESTROOMS

PD102 PLUMBING DEMOLITION PLAN - GATE 24-27 RESTROOMS PD103 PLUMBING DEMOLITION PLAN - GATE 28-32 RESTROOMS PP101 PLUMBING RENOVATION PLAN - GATE 20-23 RESTROOMS PP102 PLUMBING RENOVATION PLAN - GATE 24-27 RESTROOMS

PP103 PLUMBING RENOVATION PLAN - GATE 28-32 RESTROOMS PG301 PLUMBING DETAILS PP310 PLUMBING RISERS PG401 PLUMBING SCHEDULES

PLUMBING GENERAL NOTES

CONTRACTOR SHALL COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES. COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING CONSTRUCTION. COORDINATE WITH CIVIL DRAWINGS FOR ADJACENT UTILITIES.

ALL WORK, METHODS, AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PREVAILING BUILDING CODE. INSPECTION REGULATIONS AND ALL OFFICIALS HAVING JURISDICTION. ALL WORK SHALL BE ACCORDING TO AND COORDINATED WITH DIVISIONS 00 AND 01.

PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE OWNER'S MOST RECENT RULES AND REGULATIONS FOR CONSTRUCTION. THE CONTRACTOR SHALL PERFORM ALL WORK IN

ACCORDANCE WITH SUCH RULES AND REGULATIONS. COORDINATE ALL FIRE PIPING SYSTEM SHUTDOWN WITH HAS FOR APPROVED VENDOR INVOLVEMENT AND ALL W.A.N.

NOTIFICATION REQUIREMENTS.

E. COORDINATE ALL UTILITY SHUTDOWNS WITH HAS AND FOLLOW HAS W.A.N. PROCEDURES BEFORE SHUTDOWN.

DUE TO THE SCALE OF DRAWINGS, NOT ALL PIPING AND APPURTENANCES TO BE PROVIDED ARE SHOWN. CONTRACTOR SHALL PROVIDE SERVICES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: PIPING INSIDE WALLS AND CHASES TO SERVE ADJACENT PLUMBING FIXTURES AND EQUIPMENT, INDIVIDUAL FIXTURE SUPPLIES AND DRAINS, PIPING OFFSETS, VALVES, TRAPS, GAUGES, STRAINERS, AND UNIONS TO ENSURE THE COMPLETE AND FUNCTIONING INSTALLATION OF FIXTURES AND EQUIPMENT.

ALL EXISTING SYSTEMS SHOWN ARE TO REMAIN UNLESS NOTED OTHERWISE. OTHER DISCIPLINES EQUIPMENT SHOWN FOR REFERENCE PURPOSES ONLY. COORDINATE FOR EXACT LOCATIONS.

H. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.

DO NOT ROUGH-IN BASED UPON THESE DRAWINGS. REFER TO LATEST DRAWINGS PREPARED BY THE ARCHITECT. THE FINAL LOCATIONS OF ALL PIPING SHALL ALLOW INSTALLATION OF FIXTURES WITHOUT THE NEED TO FURR-OUT WALLS. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN OF DRAINS AND CLEANOUTS. PROVIDE CLEANOUTS IN

K. NO PIPING IS TO BE INSTALLED OPEN TO PUBLIC VIEW UNLESS NOTED OTHERWISE.

ADDITION TO THOSE SHOWN AS REQUIRED BY CODE.

FINISH TO MATCH EXISTING.

EXTENSION OF SUCH UTILITIES CAN BE MADE.

DO NOT INSTALL PIPING AT LOCATIONS THAT INTERFERE WITH SERVICE ACCESSIBILITY TO EQUIPMENT.

M. ALL PENETRATIONS THROUGH FLOOR SLABS AND EXTERIOR WALLS SHALL BE SEALED WATERTIGHT. PROVIDE NEPA APPROVED FIRE STOPPING WHERE PIPES PENETRATE FIRE RATED FLOORS AND WALLS. ALL

PENETRATIONS THROUGH RATED PARTITIONS AND FLOOR SLABS SHALL BE SEALED TO PROVIDE A FIRE/SMOKE RATING EQUAL TO OR GREATER THAN THE RATING OF THE PARTITION OR FLOOR SLAB. REFER TO ARCHITECTURAL DRAWINGS FOR RATINGS. O. INSTALL FIXTURES ACCORDING TO ADA/TAS REQUIREMENTS. COORDINATE DEVICE MOUNTING HEIGHTS WITH

P. EXISTING WATER, WASTE, AND VENT UTILITIES SHALL BE MODIFIED AS REQUIRED FOR THE INSTALLATION OF NEW

PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.

WHEREVER EXISTING PIPING SYSTEMS ARE CONNECTED TO, RE-ROUTED, OR CAPPED, CLEAN AND TEST THE ENTIRE

ARCHITECTURAL ELEVATIONS. PROVIDE NEW ACCESS PANELS FOR ANY VALVES ABOVE NEW HARD CEILING, NEW OR

SECTION OF THE SYSTEM AFFECTED IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS. R. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS, AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING SHALL BE PROVIDED. STRUCTURAL COMPONENTS SHALL NOT BE CUT. DRILLED OR MODIFIED IN A WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND PRIOR WRITTEN APPROVAL. COORDINATE WITH DIVISION 01. 02 73 29 CUTTING AND PATCHING. SAWCUT OR COREDRILL AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW FIXTURES, CLEANOUTS, AND UNDERSLAB WATER, WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING. COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO CUTTING OR DRILLING SLAB. SAWCUT AND REMOVE EXISTING PAVING AND SIDEWALKS AS REQUIRED TO PROVIDE NEW SERVICES. PATCH AND RE-

ALL EXISTING WALLS, FLOORS, DRIVEWAYS, SIDEWALKS, PARKING AREAS, FENCING, ETC. DISTURBED DUE TO WORK DONE AND THAT ARE TO REMAIN SHALL BE REPAIRED TO CONDITION THAT IS ACCEPTABLE TO THE ARCHITECT/ENGINEER AND OWNER.

PRIOR TO BEGINNING CONSTRUCTION, FIELD VERIFY THE EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL, AND CONDITION OF EXISTING PIPING TO ENSURE THAT PROPER CONNECTIONS TO AND

U. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR PROVIDING ALL NECESSARY LABOR AND MATERIALS TO ENSURE COMPLETE, FUNCTIONAL, AND COMPLIANT SYSTEMS. FAILURE TO MEET THIS REQUIREMENT SHALL NOT BE

V. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. INSTALL TO CONSERVE HEADROOM AND TO CREATE MINIMUM INTERFERENCE WITH USE OF SPACE. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN. GROUP PIPING AT COMMON ELEVATIONS WHENEVER PRACTICAL.

CONSIDERED JUSTIFICATION FOR OMISSIONS, FAULTY WORK, OR THE PAYMENT OF ADDITIONAL COMPENSATION.

W. PRIOR TO ANY ROUGH-INS, COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST MANUFACTURER RECOMMENDATIONS AND DRAWINGS AND SPECIFICATIONS PREPARED BY THE ARCHITECT AND OTHER CONSULTANTS (FOOD SERVICE, LABORATORY PLANNING, ETC.). MAKE ADJUSTMENTS AND PROVIDE SERVICES AS REQUIRED.

X. LOCATE VENT TERMINALS AND FLUES THROUGH ROOF TO MAINTAIN A MINIMUM OF 15'-0" HORIZONTALLY FROM AND 3'-0" VERTICALLY ABOVE ALL OUTSIDE AIR INTAKES, OPERABLE WINDOWS, DOORS, AND ANY OTHER BUILDING

Y. ALL VALVES INDICATED ON DRAWINGS SHALL BE LINE-SIZED (THE SAME SIZE AS THE PIPE THEY SERVE) UNLESS NOTED OTHERWISE.

PROVIDE LOCKING ACCESS PANELS ACCEPTABLE TO ARCHITECT/OWNER AS REQUIRED TO ENSURE ACCESS TO VALVES AND WATER HAMMERS.

AA. ALL ABOVE SLAB ON GRADE FLOOR DRAINS, P-TRAPS, AND CONNECTED DRAINAGE PIPING RECEIVING CONDENSATE, ICE MACHINE WASTE, OR CONVEYING CONTENTS HAVING TEMPERATURES BELOW 55°F SHALL BE PROPERLY INSULATED TO THE FIRST VERTICAL OFFSET AND VAPOR SEALED TO PREVENT CONDENSATION.

BB. UPON COMPLETION OF WORK, THOROUGHLY ROD AND FLUSH OUT ALL GRAVITY DRAINAGE PIPING TO ENSURE IT IS FREE FROM BLOCKAGES AND FLOWING FREELY.

CC. UNLESS NOTED OTHERWISE, ADDITIONAL PRECAUTIONARY MEASURES MUST BE PROVIDED IN SPECIAL ROOMS AND AREAS AND ABOVE SPECIAL EQUIPMENT. THESE SPACES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: IDF, MDF, SERVER, ELECTRICAL, TELECOM, FOOD STORAGE, FOOD PREPARATION, FOOD SERVING, CLEAN ROOMS, STERILE AREAS, DINING ROOMS, OPERATING ROOMS, IMAGING ROOMS, AND OVER VFD'S AND CONTROL PANELS. AT SUCH LOCATIONS. PROVIDE AUXILIARY DRAIN PANS BENEATH ALL WATER. STORM. WASTE AND VENT PIPING TO DIVERT POSSIBLE LEAKAGE OR CONDENSATION. PANS SHALL BE SUSPENDED FROM STRUCTURE ABOVE WITH GALVANIZED THREADED HANGER RODS AND HARDWARE. PANS SHALL BE GALVANIZED OR STAINLESS STEEL CONSTRUCTION, WITH ALL SOLDERED SEAMS AND JOINTS. MIN. 4" DEEP, SLOPED, WITH A MIN. 1-1/4"" DRAIN OUTLET AT THE LOW POINT OF THE PAN. PROVIDE DIELECTRIC ADAPTER AND TYPE DWV COPPER DRAIN LINE AND FITTINGS SLOPED TO NEAREST APPROVED INDIRECT WASTE RECEPTOR.

DD. FIRE PROTECTION ENGINEER LICENSED IN THE STATE OF TEXAS SHALL PROVIDE, FOR PERMIT AND REVIEW, FIRE PROTECTION SHOP DRAWINGS, INCLUDING BUT NOT LIMITED TO HYDRONIC CALCULATIONS, DETAILS, FOR ALL NEW AREAS AND REVISION OF EXISTING SYSTEMS PER NFPA TO PROVIDE 100% FULL COVERAGE.

EE. MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSE.

FF. ALL WATER PIPING TO BE FULLY INSULATED AND LABELED.

SYMBOL LEGEND **PIPING TYPES** SANITARY DRAIN ABOVE FLOOR (NOTED) —————— SANITARY VENT ----- SD ------ STORM DRAIN

---- OD ----- OVERFLOW DRAIN

—————— HOT WATER RECIRCULATION

F FIRE STANDPIPE, FIRE LINE

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

DIRECTION OF SLOPE DOWN

ELBOW DOWN

————— COLD WATER

— G — NATURAL GAS

— FS — FIRE SPRINKLER

TRAP PRIMER

— D — DRAIN LINE

PIPING SYMBOLS

———— ELBOW UP

VALVE IN DROP

→ VALVE IN RISE

→ DIRECTION OF FLOW

——— CONCENTRIC REDUCER

ECCENTRIC REDUCER

TEE OUTLET UP

GATE VALVE

GLOBE VALVE

BALL VALVE

CHECK VALVE

GAS VALVE

MANUAL AIR VENT

EXPANSION JOINT

STRAINER WITH BLOWDOWN VALVE

OS&Y VALVE

FCS SPRINKLER FLOOR CONTROL STATION

AUTOMATIC AIR VENT

T&P RELIEF VALVE

VACUUM BREAKER

FLOOR CLEANOUT

THERMOMETER

DOUBLE CHECK REDUCED PRESSURE

OR OR FLOOR DRAIN (ROUND OR SQUARE STRAINER)

FUNNEL FLOOR DRAIN

PLUMBING FIXTURES

1 DRAWING NOTE REFERENCE

HOSE BIBB

BACKFLOW PREVENTER

FLOOR SINK (NO GRATE, FULL GRATE, 3/4 GRATE, 1/2 GRATE)

ROOF DRAIN OR OVERFLOW DRAIN

POINT OF NEW CONNECTION TO EXISTING PIPING

DOWNSPOUT, "F" DENOTES FIRE.

FIRE DEPARTMENT SIAMESE CONNECTION

→ OWNER OR CONTRACTOR FURNISHED EQUIPMENT REFERENCE

RISER DESIGNATION. "P" DENOTES WASTEIVENT OR WASTE|VENT|WATER, "W" DENOTES WATER, "DS" DENOTES

aaabb → PLUMBING EQUIPMENT REFERENCE. "aaa" DENOTES TYPE, "bb" DENOTES NUMBER.

MISCELLANEOUS

LINE CLEANOUT OR WALL CLEANOUT

PRESSURE GAUGE WITH GAUGE COCK

PRESSURE REDUCING VALVE

BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS

------UNION

TEE OUTLET DOWN

7800 Airport Blvd Houston, TX 77061 HOU RESTROOM RENOVATIONS

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DESIGNER PROJECT No.: PROJECT STATUS: REVISIONS

DATE BY

03.22.22 JE

No. DESCRIPTION

Issue for Bidding

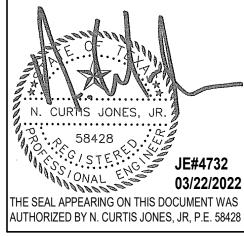
TIM LUBER DESIGN BY: TIM LUBER DRAWN BY: RON HUGHES **CHECKED BY:** N CURT JONES **APPROVED BY:**

> **DIRECTOR HOUSTON AIRPORT SYSTEM**

Review/ Approval Category

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APPROVAL DATE:



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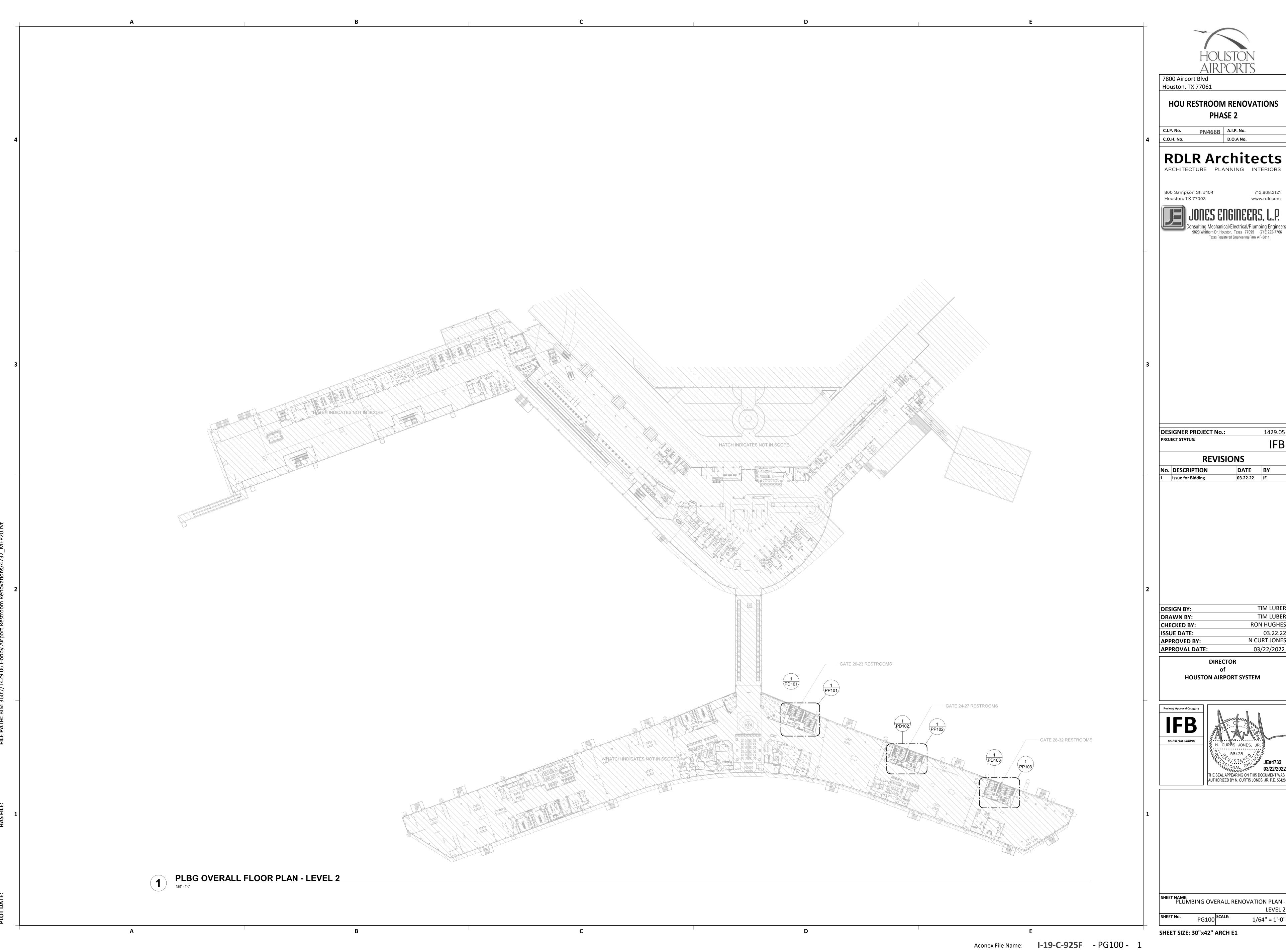
SHEET NAME:
PLUMBING ABBREVIATIONS, LEGENDS AND

SHEET SIZE: 30"x42" ARCH E1

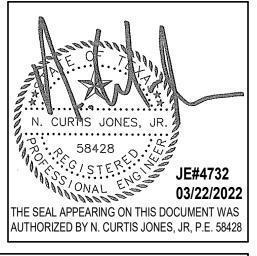
GENERAL NOTE: BUILDING TO BE 100% SPRINKLERED, PER NFPA 13.

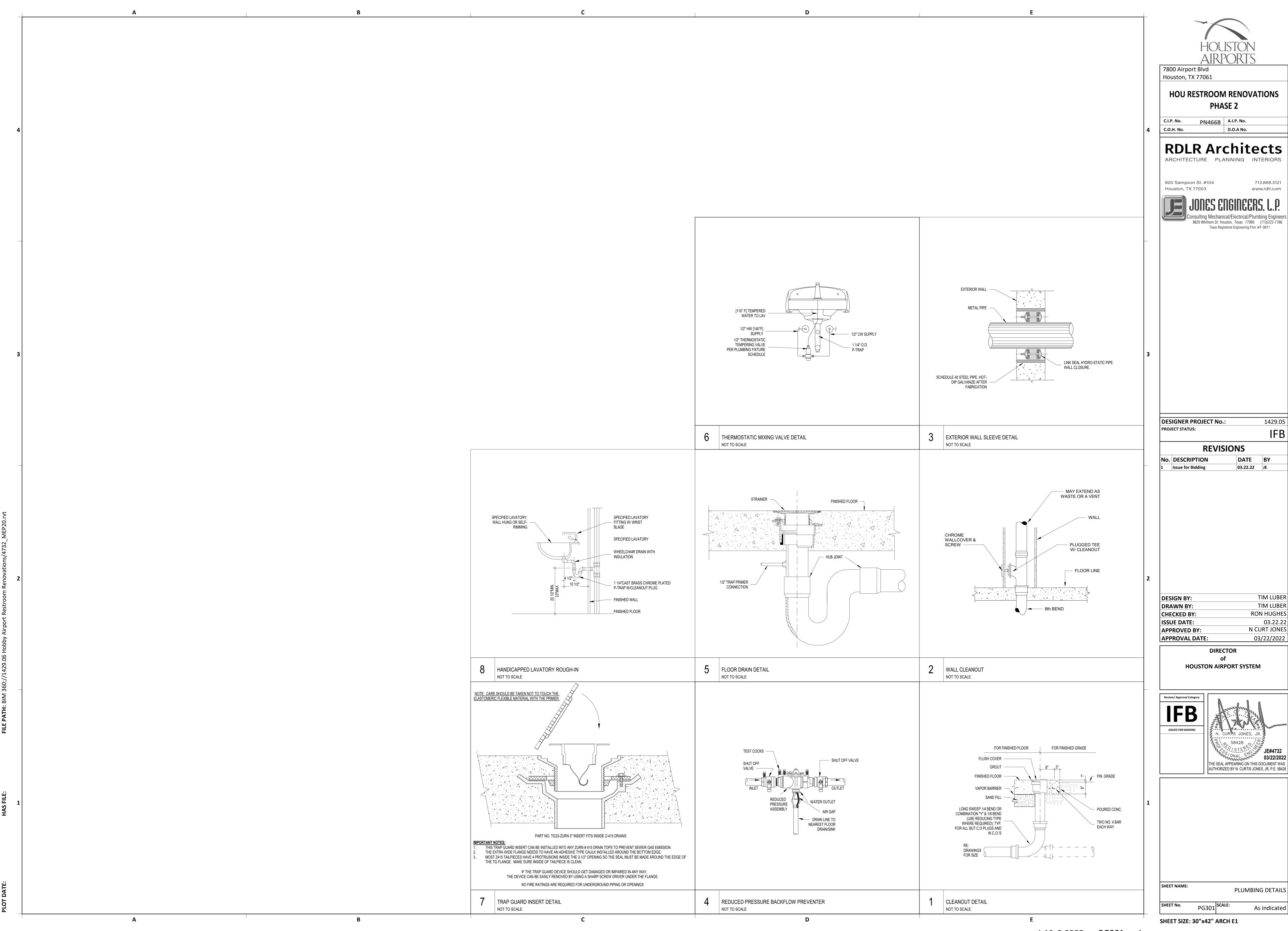
GENERAL NOTE: ALL PUBLIC SINKS AND LAVATORIES SHALL BE SET TO A MAXIMUM OF 110°F.

Aconex File Name: I-19-C-925F - PG001 - 1



TIM LUBER TIM LUBER RON HUGHES N CURT JONES





1429.05

TIM LUBER TIM LUBER RON HUGHES 03.22.22



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR, P.E. 58428

Aconex File Name: I-19-C-925F - PG301 - 1

							FLOOR DR	RAIN SCHEE	DULE
NOTES: 1. ALL FLOOR	DRAINS AND FLOOR SINKS 1	TO USE PRECISION PLUMBING PR	ODUCTS TI	RAP PRIMER	RS OR APPROV	ED EQUAL.			
				ROUGH-IN CONNECTION SIZE					
MARK	FIXTURE	AREA(S) SERVED	C.W.	H.W.	WASTE	VENT	MANUFACTURER	MODEL	DESCRIPTION AND NOTES
FD-1	FLOOR DRAIN	PUBLIC	-	-	4"	2"	ZURN INDUSTRIES	Z415B-4NH-P	FLOOR AND SHOWER DRAIN, NO-HUB CAST IRON BODY ASSEMBLY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND POLISHED NICKEL BRONZE, LIGHT DUTY 8" DIAMETER STRAINER

							PLUIVIDING	FIX TURE AN	D CONNECTION SCHEDULE
MARK	FIXTURE	AREA(S) SERVED		ROUGH-IN	CONNECTION S WASTE	VENT	MANUFACTURER	MODEL	DESCRIPTION AND NOTES
EWC-1	DRINKING FOUNTAIN	PUBLIC	1/2"	-	2"	1-1/2"	HALSEY-TAYLOR	HYDROBOOST HTHB-HRFSEBP-I	WALL-MOUNTED BI-LEVEL WATER FOUNTAIN WITH BOTTLE FILLING STATION. PUSHBAR ACTIVATION. BOTTLE FILLER PROVIDES 1.1-1.5 GPM FLOW RATE WITH LAMINAR FLOW TO MINIMIZE SPLASHING. FOR INDOOR APPLICATIONS. AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AUTO 20-SECOND SHUT-OF TIMER. ANTI-MICROBIAL, 399 CERTIFIED. LEAD-FREE DESIGN, CERTIFIED TO NSF/ANSI 42, 53, 61, & 372 (LEAD FREE). ADA-COMPLIANT.
L-1	SINGLE BOWL SINK	PUBLIC	1/2"	1/2"	2"	1-1/2"	LOVAIR	L-S12	BASIN: CUSTOM BASIN, WITH CUSTOM DRAIN LOCATION, CUSTOM OVERFLOW DRAIN LOCATION, CUSTOM FAUCET HOLE LOCATIONS, AND CUSTOM LENGTH AND DEPTH. FINISH SHALL BE DETERMINED BY ARCHITECT. ADA COMPLIANT. FAUCET – LOVAIR L-R021, DECK-MOUNT ELECTRONIC RIBBON FAUCET, SATIN CHROME FINISH WITH PROXIMITY OPERATION WITH AUTO PURGE AND SAFETY TIMER. INTEGRATED DESIGN WITH SENSOR, SOLENOID VALVE AND ELECTRONICS ENCLOSED IN THE SPOUT. WATER PRESSURE RANGE FROM 20 - 120 PSI. VANDAL-RESISTANT SINGLE-POST MOUNTING. SINGLE INLET FOR COLD OR TEMPERED WATER. PRE-INSTALLED 24" FLEXIBLE INLET HOSE WITH FILTER ASSEMBI AND 3/8" COMPRESSION FITTING. LEAD-FREE. 0.35 GPM PRESSURE COMPENSATING, MULTI-LAMINAR SPRAY. PROVIDE WITH HARD-WIRED AC POWER SUPPLY OF MULTI-AC ADAPTOR AS REQUIRED. APPURTENANCES – KOHLER K-8998 P-TRAP WITH ADA TRAP PROTECTOR AND KOHLER K-7605-P SINK SUPPLY STOPS WITH FLEXIBLE LAVATORY SUPPLY AND SUPPLY STOP ADA PROTECTORS. ZURN Z8737 FLAT GRID SINK STRAINER. SEE ARCHITECTURAL DRAWINGS FOR SOAP DISPENSER. HAND DRYER – LOVAIR L-R031
L-2	SINGLE BOWL SINK	PUBLIC	1/2"	1/2"	2"	1-1/2"	LOVAIR	L-S12	BASIN: CUSTOM BASIN, WITH CUSTOM DRAIN LOCATION, CUSTOM OVERFLOW DRAIN LOCATION, CUSTOM FAUCET HOLE LOCATIONS, AND CUSTOM LENGTH AND DEPTH. FINISH SHALL BE DETERMINED BY ARCHITECT. ADA COMPLIANT. FAUCET – LOVAIR L-R021, DECK-MOUNT ELECTRONIC RIBBON FAUCET, SATIN CHROME FINISH WITH PROXIMITY OPERATION WITH AUTO PURGE AND SAFETY TIMER. INTEGRATED DESIGN WITH SENSOR, SOLENOID VALVE AND ELECTRONICS ENCLOSED IN THE SPOUT. WATER PRESSURE RANGE FROM 20 - 120 PSI. VANDAL-RESISTANT SINGLE-POST MOUNTING. SINGLE INLET FOR COLD OR TEMPERED WATER. PRE-INSTALLED 24" FLEXIBLE INLET HOSE WITH FILTER ASSEMBL AND 3/8" COMPRESSION FITTING. LEAD-FREE. 0.35 GPM PRESSURE COMPENSATING, MULTI-LAMINAR SPRAY. PROVIDE WITH HARD-WIRED AC POWER SUPPLY OF MULTI-AC ADAPTOR AS REQUIRED. APPURTENANCES – KOHLER K-8998 P-TRAP WITH ADA TRAP PROTECTOR AND KOHLER K-7605-P SINK SUPPLY STOPS WITH FLEXIBLE LAVATORY SUPPLY AND SUPPLY STOP ADA PROTECTORS. ZURN Z8737 FLAT GRID SINK STRAINER. SEE ARCHITECTURAL DRAWINGS FOR SOAP DISPENSER. HAND DRYER – LOVAIR L-R031
MS-1	SERVICE SINK	PUBLIC	3/4"	3/4"	3"	2"	ZURN INDUSTRIES	1996-24	BASIN: FLOOR-MOUNTED, 24x24x10 SQUARE, MOP SERVICE BASIN WITH ZURN Z415B DRAIN BODY ASSEMBLY, STAINLESS-STEEL BUMPER GUARD AND STAINLESS-STEEL WALL GUARD. FAUCET: ZURN AQUASPEC Z84300-XL, CHROME PLATED FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOTTHREAD ON SPOUT. BODY INLETS 8" CENTER TO CENTER, COLD (BLUE) AND HOT (RED) INDICATORS.
U-1	URINAL	PUBLIC	3/4"	-	2"	1-1/2"	TOTO USA, Inc.	UT104EV	COTTON WHITE, VITREOUS CHINA, UNIVERSAL HIGH EFFICIENCY, LOW CONSUMPTION (0.5 GPF), ELONGATED 14" FLUSHING RIM FROM FINISH WALL, WASHOUT FLUSH ACTION VALVE URINAL. WALL-MOUNTED FLUSHOMETER FOR SCENARIOS WITH WALK-IN CHASE: TOTO TEU3LA, SATIN FINISH. WALL-MOUNTED FLUSHOMETER FOR SCENARIOS WITHOUT WALK-IN CHASE: TOTO TEU2LA, SATIN FINISH.
U-2	URINAL (ADA)	PUBLIC	3/4"	-	2"	1-1/2"	TOTO USA, Inc.	UT104EV	COTTON WHITE, VITREOUS CHINA, UNIVERSAL HIGH EFFICIENCY, LOW CONSUMPTION (0.5 GPF), ELONGATED 14" FLUSHING RIM FROM FINISH WALL, WASHOUT FLUSH ACTION VALVE URINAL. MOUNTED AT ADA HEIGHT. WALL-MOUNTED FLUSHOMETER FOR SCENARIOS WITH WALK-IN CHASE: TOTO TEU3LA, SATIN FINISH. WALL-MOUNTED FLUSHOMETER FOR SCENARIOS WITHOUT WALK-IN CHASE: TOTO TEU2LA, SATIN FINISH.
WC-1	WATER CLOSET (WALL-MOUNT)	PUBLIC	1"	-	4"	2"	TOTO USA, Inc.	CT708EVG	BOWL: WALL HUNG, WHITE VITREOUS CHINA, TOP-SPUD FLUSHOMETER VALVE, HIGH-EFFICIENCY, LOW CONSUMPTION 1.28 GPF TOILET WITH ELONGATED BOWL CONDENSATION CHANNEL, CONCEALED DESIGN AND FULLY GLAZED TRAPWAY, ANTIMICROBIAL SURFACE, DIRECT-FED SIPHON JET ACTION AND TESTED TO SUPPORT STATIC WEIGHT LOAD OF 1,000 POUNDS. WALL-MOUNTED FLUSHOMETER FOR SCENARIOS WITH WALK-IN CHASE: TOTO TET3LA, SATIN FINISH. WALL-MOUNTED FLUSHOMETER FOR SCENARIOS WITHOUT WALK-IN CHASE: TOTO TET2LA, SATIN FINISH. SEAT: OPEN FRONT LESS COVER, ELONGATED, HEAVY-DUTY, INJECTION MOLDED SOLID PLASTIC TOILET SEAT WITH FOUR MOLDED-IN BUMPERS, NON-SELF-SUSTAINING CHECK HINGES WITH NON-CORROSIVE 300 SERIES STAINLESS STEEL POSTS AND PINTLES. COMPLYING WITH IAPMO/ANSI Z124.5-2013. TOTO SC534.
WC-2	WATER CLOSET (WALL-MOUNT) (ADA)	PUBLIC	1"	-	4"	2"	TOTO USA, Inc.	CT708EVG	BOWL: WALL HUNG, WHITE VITREOUS CHINA, TOP-SPUD FLUSHOMETER VALVE, HIGH-EFFICIENCY, LOW CONSUMPTION 1.28 GPF TOILET WITH ELONGATED BOWL CONDENSATION CHANNEL, CONCEALED DESIGN AND FULLY GLAZED TRAPWAY, ANTIMICROBIAL SURFACE, DIRECT-FED SIPHON JET ACTION AND TESTED TO SUPPORT STATIC WEIGHT LOAD OF 1,000 POUNDS. MOUNTED AT ADA HEIGHT. WALL-MOUNTED FLUSHOMETER FOR SCENARIOS WITH WALK-IN CHASE: TOTO TET3LA, SATIN FINISH. WALL-MOUNTED FLUSHOMETER FOR SCENARIOS WITHOUT WALK-IN CHASE: TOTO TET2LA, SATIN FINISH. SEAT: OPEN FRONT LESS COVER, ELONGATED, HEAVY-DUTY, INJECTION MOLDED SOLID PLASTIC TOILET SEAT WITH FOUR MOLDED-IN BUMPERS, NON-SELF-SUSTAINING CHECK HINGES WITH NON-CORROSIVE 300 SERIES STAINLESS STEEL POSTS AND PINTLES. COMPLYING WITH IAPMO/ANSI Z124.5-2013. TOTO SC534.

PLUMBING PIPE MATERIALS					
SYSTEM:	SERVICE:				
DOMESTIC WATER PIPE, ABOVE GRADE	TYPE 'L' COPPER				
SANITARY SEWER, ABOVE GRADE	CAST IRON				



HOU RESTROOM RENOVATIONS PHASE 2

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

RDLR Architects ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104 713.868.3121



Consulting Mechanical/Electrical/Plumbing Engineers 9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766 Texas Registered Engineering Firm #F-3811

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

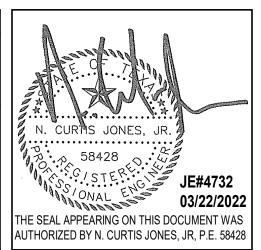
DATE BY No. DESCRIPTION

03.22.22 JE Issue for Bidding

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

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PLUMBING SCHEDULES

SHEET SIZE: 30"x42" ARCH E1

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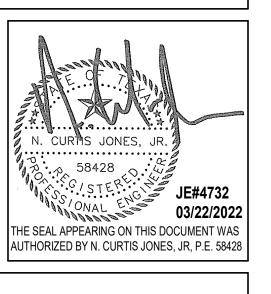
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1	Issue for Bidding	03.22.22	JE

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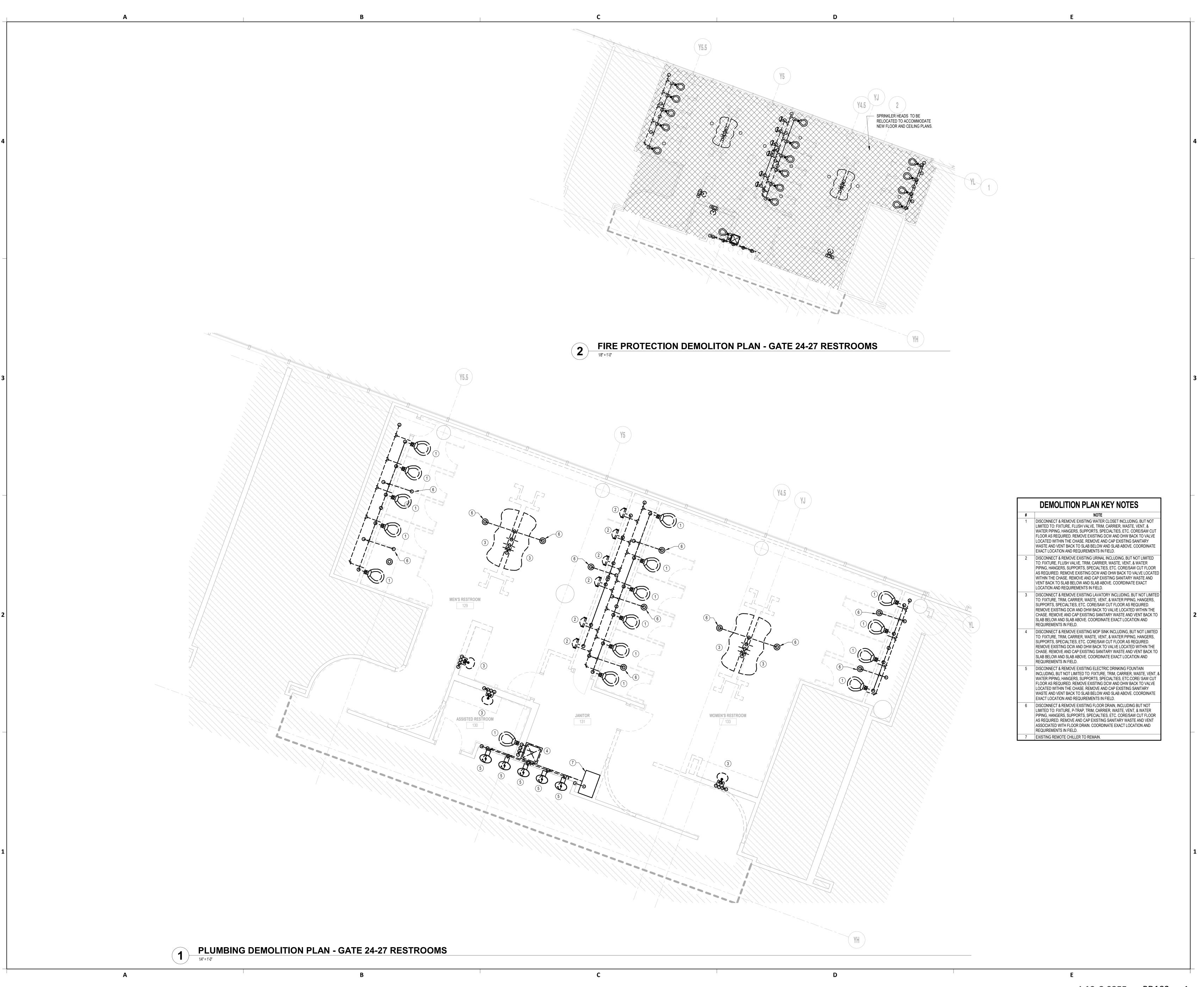
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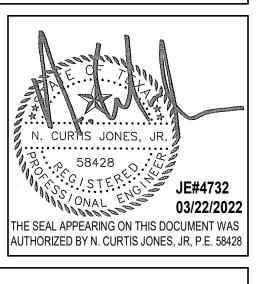
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APPROVED BY:

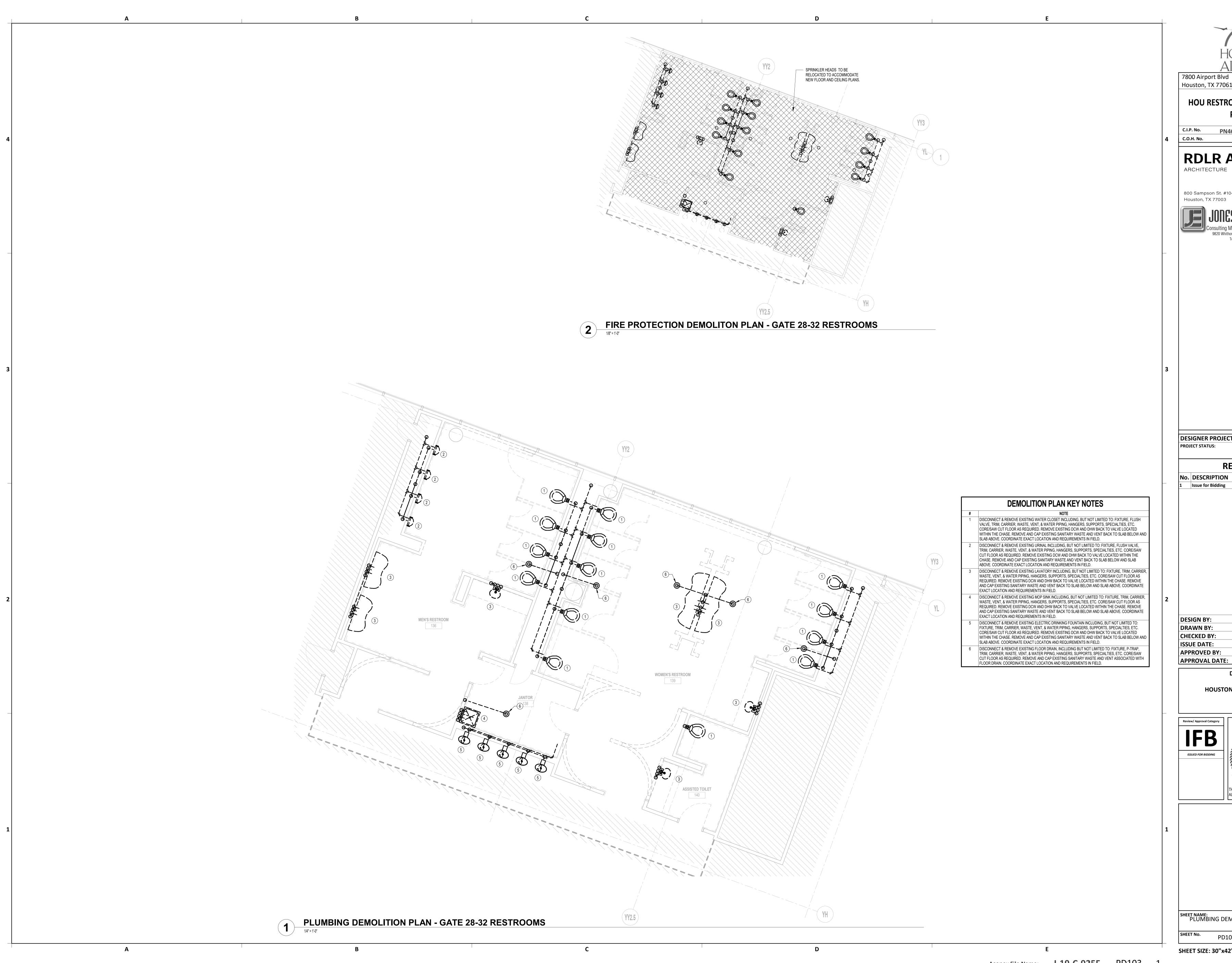


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Aconex File Name: I-19-C-925F - PD102 - 1



Houston, TX 77061

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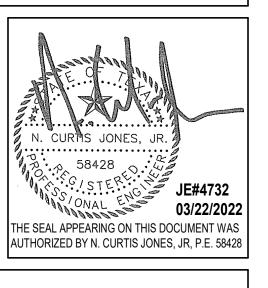
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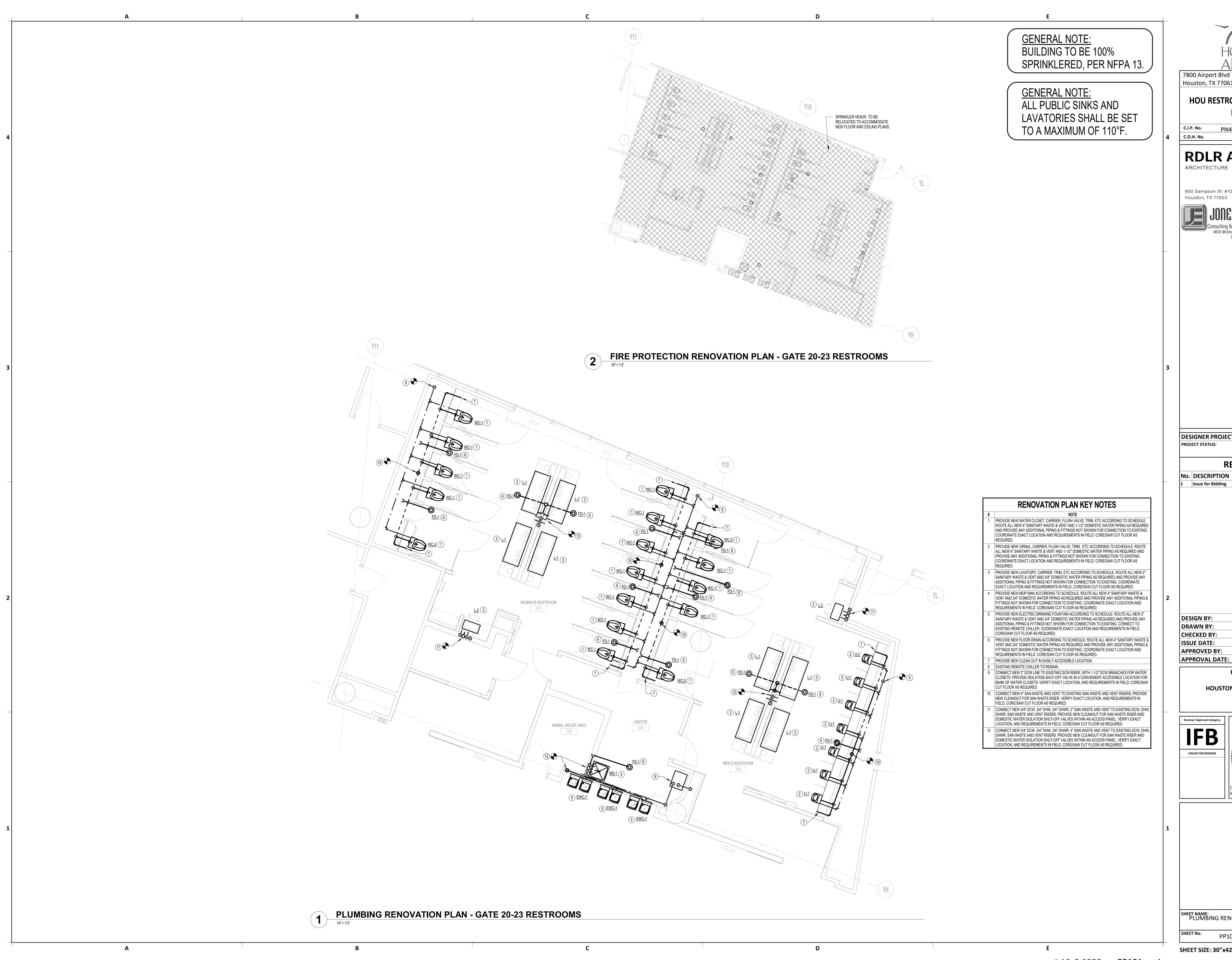
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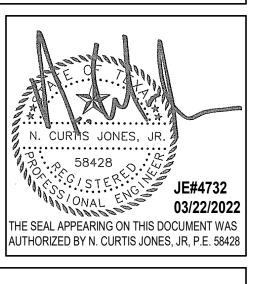
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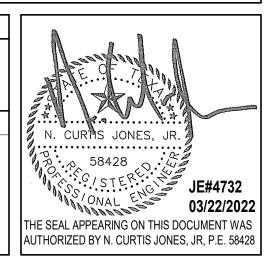
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SHEET NAME:
PLUMBING RENOVATION PLAN - GATE 24-27 RESTROOMS As indicated

GENERAL NOTE: BUILDING TO BE 100% SPRINKLERED, PER NFPA 13. SPRINKLER HEADS TO BE RELOCATED TO ACCOMMODATE NEW FLOOR AND CEILING PLANS. **GENERAL NOTE:** ALL PUBLIC SINKS AND LAVATORIES SHALL BE SET TO A MAXIMUM OF 110°F. FIRE PROTECTION RENOVATION PLAN - GATE 28-32 RESTROOMS No. DESCRIPTION RENOVATION PLAN KEY NOTES 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. CORE/SAW CUT FLOOR AS REQUIRED. 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. CORE/SAW CUT FLOOR AS REQUIRED. PROVIDE NEW LAVATORY, CARRIER, TRIM, ETC 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. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CORE/SAW CUT FLOOR AS REQUIRED. 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. CORE/SAW CUT FLOOR AS REQUIRED. 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. CORE/SAW CUT FLOOR AS REQUIRED. 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 MEN'S RESTROOM SHOWN FOR CONNECTION TO EXISTING. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CORE/SAW CUT FLOOR AS REQUIRED. PROVIDE NEW CLEAN OUT IN EASILY ACCESSIBLE LOCATION. 8 PROVIDE NEW REMOTE CHILLER, ELKAY #ER191, 19 GPH, 9.7 AMP, 750 WATT, 115V. ROUTE ALL NEW SANITARY WASTE & VENT AND DOMESTIC WATER PIPING AS REQUIRED AND PROVIDE ANY ADDITIONAL PIPING & FITTINGS NOT SHOWN FOR CONNECTION TO EXISTING. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. CONNECT NEW 2" DCW LINE TO EXISTING DCW RISER, WITH 1-1/2" DCW 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. CORE/SAW CUT FLOOR AS WOMEN'S RESTROOM 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. CORE/SAW CUT FLOOR AS REQUIRED. CONNECT NEW 3/4" DCW, 3/4" DHW, 3/4" DHWR, 2" SAN WASTE AND VENT TO EXISTING DCW, 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. CORE/SAW CUT FLOOR AS REQUIRED. CONNECT NEW 3/4" DCW, 3/4" DHW, 3/4" DHWR, 4" SAN WASTE AND VENT TO EXISTING DCW, 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. CORE/SAW CUT FLOOR AS REQUIRED. CONNECT NEW 1-1/2" DCW, 3/4" DHW, 3/4" DHWR, 4" SAN WASTE AND VENT TO EXISTING DCW, 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 ISSUED FOR BIDDING REQUIREMENTS IN FIELD. CORE/SAW CUT FLOOR AS REQUIRED. CONNECT NEW 1" DCW LINE TO EXISTING DCW RISER. PROVIDE ISOLATION SHUT-OFF VALVE IN A CONVENIENT ACCESSIBLE LOCATION. VERIFY EXACT LOCATION, AND REQUIREMENTS IN FIELD. CORE/SAW CUT FLOOR AS REQUIRED. PLUMBING RENOVATION PLAN - GATE 28-32 RESTROOMS

7800 Airport Blvd Houston, TX 77061

HOU RESTROOM RENOVATIONS PHASE 2

RDLR Architects ARCHITECTURE PLANNING INTERIORS



9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766
Texas Registered Engineering Firm #F-3811

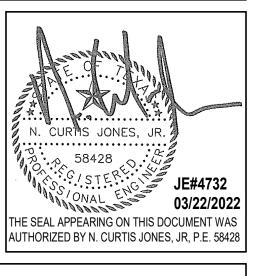
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DATE BY

03.22.22 JE Issue for Bidding

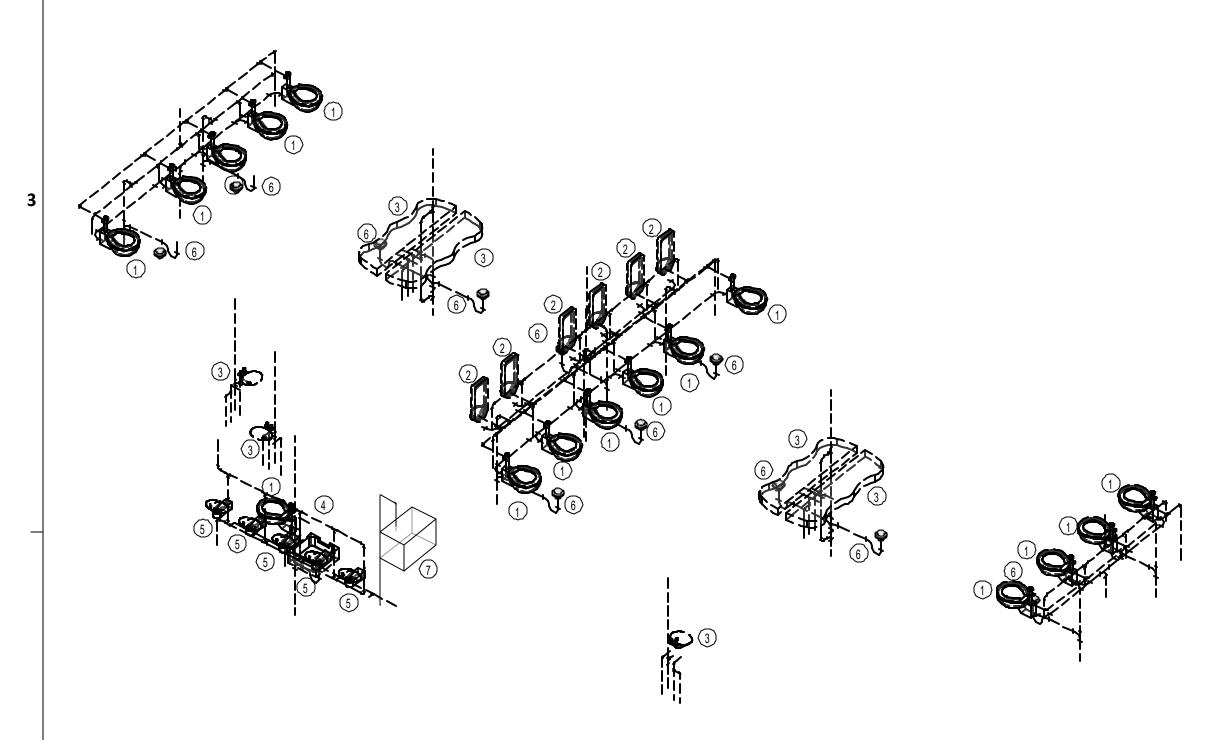
TIM LUBER **DESIGN BY:** TIM LUBER DRAWN BY: RON HUGHES CHECKED BY: **ISSUE DATE:** N CURT JONES APPROVED BY: APPROVAL DATE:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

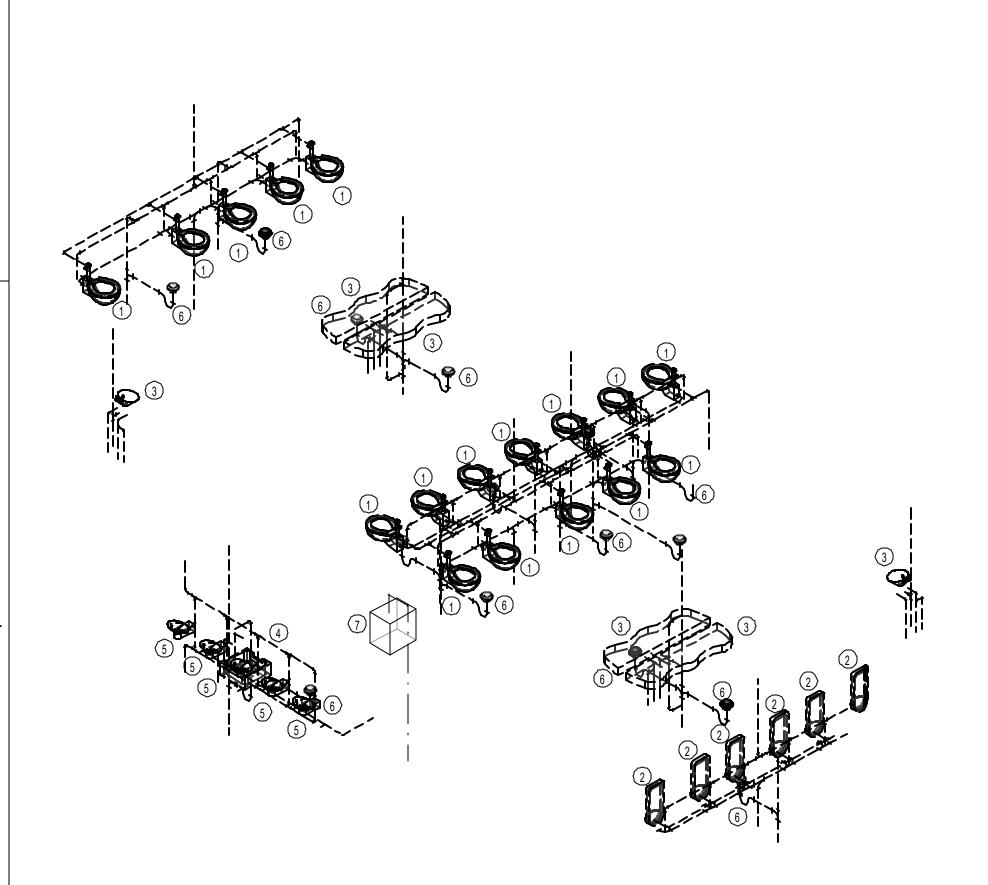


SHEET NAME:
PLUMBING RENOVATION PLAN - GATE 28-32 RESTROOMS

DEMOLITION PLUMBING RISER GATES 28-32

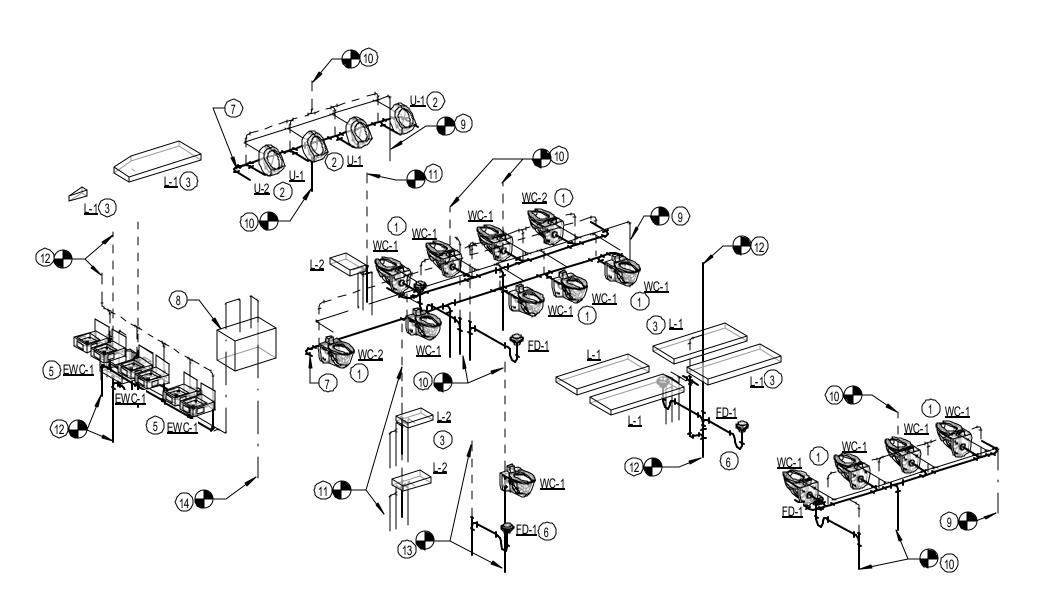


5 DEMOLITION PLUMBING RISER GATES 24-27

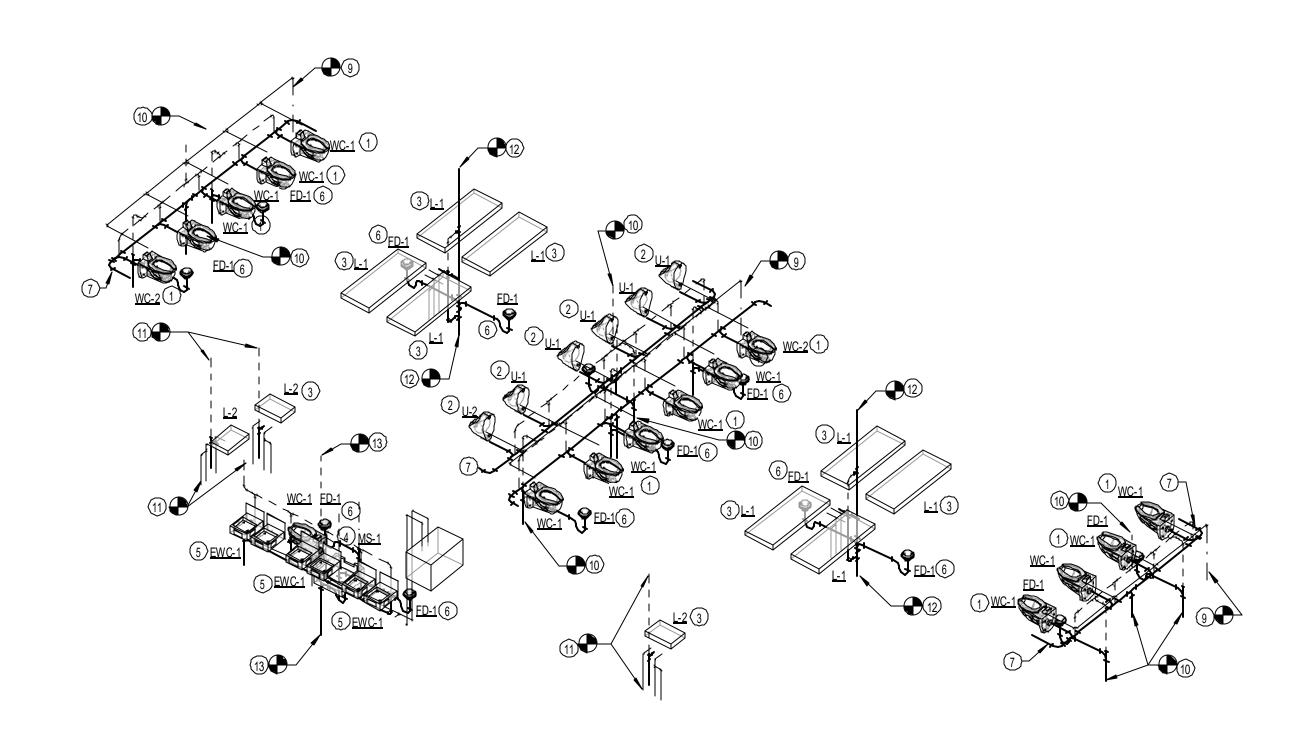


DEMOLITION PLUMBING RISER GATES 20-23

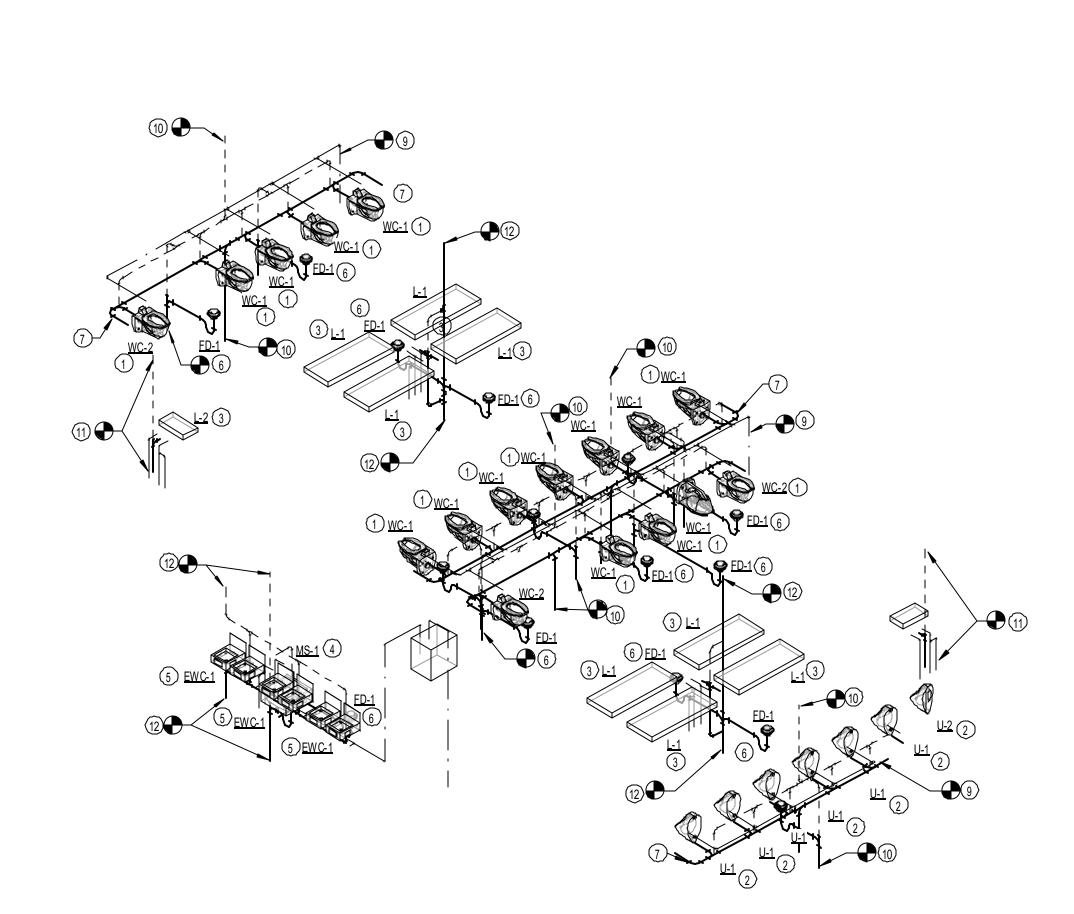
	DEMOLITION PLAN KEY NOTES
#	NOTE
1	DISCONNECT & REMOVE EXISTING WATER CLOSET INCLUDING, BUT NOT LIMITED TO: FIXTURE, FLUSH VALVE, TRIM, CARRIER, WASTE, VENT, & WATER PIPING, HANGERS, SUPPORTS, SPECIALTIES, ETC. CORE/SAW CUT FLOOR AS REQUIRED. REMOVE EXISTING DCW AND DHW BACK TO VALVE LOCATED WITHIN THE CHASE. REMOVE AND CAP EXISTING SANITARY WASTE AND VENT BACK TO SLAB BELOW AND SLAB ABOVE. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.
2	DISCONNECT & REMOVE EXISTING URINAL INCLUDING, BUT NOT LIMITED TO: FIXTURE, FLUSH VALVE, TRIM, CARRIER, WASTE, VENT, & WATER PIPING, HANGERS, SUPPORTS, SPECIALTIES, ETC. CORE/SAW CUT FLOOR AS REQUIRED. REMOVE EXISTING DCW AND DHW BACK TO VALVE LOCATED WITHIN THE CHASE. REMOVE AND CAP EXISTING SANITARY WASTE AND VENT BACK TO SLAB BELOW AND SLAB ABOVE. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.
3	DISCONNECT & REMOVE EXISTING LAVATORY INCLUDING, BUT NOT LIMITED TO: FIXTURE, TRIM, CARRIER, WASTE, VENT, & WATER PIPING, HANGERS, SUPPORTS, SPECIALTIES, ETC. CORE/SAW CUT FLOOR AS REQUIRED. REMOVE EXISTING DCW AND DHW BACK TO VALVE LOCATED WITHIN THE CHASE. REMOVE AND CAP EXISTING SANITARY WASTE AND VENT BACK TO SLAB BELOW AND SLAB ABOVE. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.
4	DISCONNECT & REMOVE EXISTING MOP SINK INCLUDING, BUT NOT LIMITED TO: FIXTURE, TRIM, CARRIER, WASTE, VENT, & WATER PIPING, HANGERS, SUPPORTS, SPECIALTIES, ETC. CORE/SAW CUT FLOOR AS REQUIRED. REMOVE EXISTING DCW AND DHW BACK TO VALVE LOCATED WITHIN THE CHASE. REMOVE AND CAP EXISTING SANITARY WASTE AND VENT BACK TO SLAB BELOW AND SLAB ABOVE. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.
5	DISCONNECT & REMOVE EXISTING ELECTRIC DRINKING FOUNTAIN INCLUDING, BUT NOT LIMITED TO: FIXTURE, TRIM, CARRIER, WASTE, VENT, 8 WATER PIPING, HANGERS, SUPPORTS, SPECIALTIES, ETC.CORE/ SAW CUT FLOOR AS REQUIRED. REMOVE EXISTING DCW AND DHW BACK TO VALVE LOCATED WITHIN THE CHASE. REMOVE AND CAP EXISTING SANITARY WASTE AND VENT BACK TO SLAB BELOW AND SLAB ABOVE. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.
6	DISCONNECT & REMOVE EXISTING FLOOR DRAIN, INCLUDING BUT NOT LIMITED TO: FIXTURE, P-TRAP, TRIM, CARRIER, WASTE, VENT, & WATER PIPING, HANGERS, SUPPORTS, SPECIALTIES, ETC. CORE/SAW CUT FLOOR AS REQUIRED. REMOVE AND CAP EXISTING SANITARY WASTE AND VENT ASSOCIATED WITH FLOOR DRAIN. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.
7	EXISTING REMOTE CHILLER TO REMAIN.



RENOVATION PLUMBING RISER GATES 28-32



RENOVATION PLUMBING RISER GATES 24-27



RENOVATED PLUMBING RISER GATES 20-23

RENOVATION PLAN KEY NOTES

PROVIDE NEW WATER CLOSET, CARRIER, FLUSH VALVE, TRIM, ETC ACCORDING TO SCHEDULE. ROUT 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. CORE/SAW CUT FLOOR AS REQUIRED. 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. CORE/SAW CUT FLOOR AS REQUIRED. PROVIDE NEW LAVATORY, CARRIER, TRIM, ETC 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. COORDINATE EXACT LOCATION AND

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CONNECT NEW 2" DCW LINE TO EXISTING DCW RISER, WITH 1-1/2" DCW 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. CORE/SAW CUT FLOOR AS

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7800 Airport Blvd Houston, TX 77061

> **HOU RESTROOM RENOVATIONS** PHASE 2

C.O.H. No.

RDLR Architects

9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766 Texas Registered Engineering Firm #F-3811

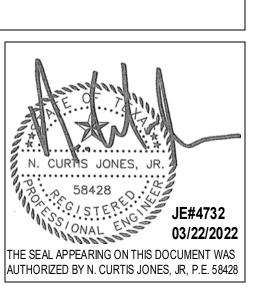
DESIGNER PROJECT No.: PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY

Issue for Bidding

03.22.22 JE

TIM LUBER **DESIGN BY:** TIM LUBER DRAWN BY: RON HUGHES **CHECKED BY:** 03.22.22 **ISSUE DATE:** N CURT JONES **APPROVED BY: APPROVAL DATE:**

> DIRECTOR **HOUSTON AIRPORT SYSTEM**



SHEET NAME: PLUMBING RISERS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD) SUPERVISOR SHALL REVIEW, APPROVE AND STAMP ALL SHOP DRAWINGS. COORDINATE DRAWINGS AND RECORD DRAWINGS.

ALL WALL PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE STOPPING.

REFER TO THE ELECTRICAL FLOOR PLAN DRAWINGS FOR ADDITIONAL ROUGH-IN REQUIREMENTS. WHERE THERE ARE DRAWING DISCREPANCIES, THE CONTRACTOR SHALL INSTALL THE GREATER QUANTITY OF DEVICES.

REFER TO THE SITE PLAN ON AND RISER DIAGRAM FOR TELECOMMUNICATION BACKBONE CONDUITS/CABLES. FIELD COORDINATE EXACT ROUTING WITH OTHER TRADES.

ALL COMMUNICATIONS EQUIPMENT SHOWN SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. BOND ALL COMMUNICATIONS CABINETS, RELAY RACKS, CABLE TRAYS, AND OTHER METALLIC SUPPORTING DEVICES TO TELECOMMUNICATIONS GROUND BUSBAR INSIDE COMMUNICATIONS ROOM. BOND WITH A #6 GROUND CONDUCTOR.

ALL HORIZONTAL VOICE AND DATA CABLES SHALL BE DISTRIBUTED VIA MINIMUM 1" CONDUIT AND/OR CABLE TRAY. NO

SINGLE LINE DIAGRAMS, SCHEMATICS, DETAILS AND CONDUIT PATHS SHOWN HEREIN ARE CONCEPTUAL AND ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN COMPONENTS OF THE SYSTEM. ACCORDINGLY, FULL SHOP DRAWING DEVELOPMENT IS REQUIRED TO REALIZE THE SPECIFIED FUNCTIONS.

10. DEVICE LOCATIONS ON PLANS ARE CONCEPTUAL. LOCATE AS SITE CONDITIONS REQUIRE AND AS APPROVED BY GC.

REFER TO THE BID SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK.

PAINTING, PATCHING AND FINISHES FOR DEVICES LOCATED IN EXISTING AREAS SHALL MATCH EXISTING FINISHES AS APPROVED BY

13. FINISHES OF DEVICES IN NEW/REMODEL AREAS SHALL BE APPROVED BY GC.

WORK AND MATERIALS SHALL CONFORM TO THE MOST CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS FURNISHED BY GC. WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE SPECIFICATIONS AND DETAILS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

IN SOME INSTANCES THE IDF MAY BE OVER 90 METERS FROM THE IP DEVICE DUE TO LEGACY DESIGN STANDARDS WHEN THE BUILDING WAS CONSTRUCTED. IF TESTED CABLE DOES NOT PASS CERTIFICATION, CONTRACTOR MUST USE MIDSPAN EXTENDER INSTALLED INSIDE OF ENCLOSURE. REFERENCE DETAIL SHEETS FOR INSTALLATION DIAGRAM.

(E)	EXISTING	
GC	GENERAL CONTRACTOR	
LEC	LOCAL EXCHANGE CARRIER	
MMF	MULTIMODE FIBER	
(N)	NEW	
NIC	NOT IN CONTRACT	
PR	PAIR AS IN COPPER PAIR (CATEGORY 5)	
R	RADIUS	
SMF	SINGLE MODE FIBER	
STP	SHIELDED TWISTED PAIR, 22 AWG	
UTP	UNSHIELDED TWISTED PAIR	

REFERENCE SPECIFICATIONS

270526 - TELECOMMUNICATIONS GROUNDING AND BONDING

270528 - INTERIOR COMMUNICATION PATHWAYS

270543 - EXTERIOR COMMUNICATION PATHWAYS

270553 - IDENTIFICATION AND LABELING OF COMMUNICATION INFRASTRUCTURE

271045 - RESTROOM MONITORING SYSTEM

271100 - COMMUNICATIONS CABINETS AND EQUIPMENT ROOMS

271500 - HORIZONTAL MEDIA INFRASTRUCTURE

8. 272100 - DATA COMMUNICATION NETWORK EQUIPMENT

9. 272200 - LAPTOP, AND SERVERS EQUIPMENT

10. 275113 - AUDIO COMMUNICATION SYSTEM

11. SPECIFICATION CAN BE DOWNLOADED AT https://www.fly2houston.com/biz/resources/building-standards-and-permits/

SHEET INDEX

SHEET NO.	DESCRIPTION
T-001	TECHNOLOGY - ABBREVIATIONS & SYMBOLS
T-040	TECHNOLOGY - OVERALL FLOOR PLAN - LEVEL 1
T-041	TECHNOLOGY - OVERALL FLOOR PLAN - LEVEL 2
T-101	TECHNOLOGY - FLOOR PLAN - GATE 20-23 RESTROOMS
T-102	TECHNOLOGY - FLOOR PLAN - GATE 24-27 RESTROOMS
T-103	TECHNOLOGY - FLOOR PLAN - GATE 28-32 RESTROOMS
T-401	TECHNOLOGY - ENLARGED PLAN - IDF S102.1
T-402	TECHNOLOGY - ENLARGED PLAN - IDF S101.6
T-403	TECHNOLOGY - ENLARGED PLAN - IDF S108.2
T-500	TECHNOLOGY - EQUIPMENT DETAILS
T-600	TECHNOLOGY - EQUIPMENT SCHEDULES

TECHNOLOGY EQUIPMENT SYMBOLS LIST

SYMBOL	DESCRIPTION
HDMI-R	HDMI RECEIVER
HDMI-T	HDMI TRANSMITTER
FOPP	FIBER OPTIC PATCH PANEL
FOT	FIBER OPTIC TRANSMITTER
FOR	FIBER OPTIC RECEIVER
СРР	COPPER PATCH PANEL
СР	CURTESY PHONE
НН	HAND HOLE
MATV	MAINTENANCE HOLE
МН	MAINTENANCE HOLE
NS O	NETWORK SWITCH (OWNER)
NS T	NETWORK SWITCH (TENANT)
РВ	PULL BOX
Р	OSP COPPER PROTECTOR
▼ x	X-CAT6 TERMINATION JACK WHERE X REPRESENTS QUANTITY OF CAT6 CABLES. FIELD COORDINATE EXACT PLACEMENT WITH OTHER TRADE.
V ₄	EXAMPLE: 4-CAT6 WITH 4-PORT WALL PLATE, 15" A.F.F. CAT 6 TERMINATION JACK.
X Y	X=CONFIGURATION JACK. X=CONFIGURATION. Y=QTY OF CAT 6 CABLES. PROVIDE PATCH CORD FOR EACH CONNECTED PORT.
Tv	TV OUTLET (1 RG-6 CABLE)
V A/V	HDMI WITH 2 AUDIO JACKS. INCLUDE PLENUM HDMI AND 2 AUDIO CABLE FROM JACK TO A/V SOURCE WITHIN ROOM.
V w	1 CAT 6 WITH PLATE FOR WALL MOUNTED PHONE, 45"A.F.F.
V B	BLANK WALL PLATE
X	X CAT 6 CABLE (FLOOR OUTLET)
WAP	WIRELESS ACCESS POINT, 2 CAT 6A CABLES
AW	

ALL WEATHER OUTDOOR PHONE, 1 CAT 6

TECHNOLOGY EQUIPMENT SYMBOLS LIST

SYMBOL	DESCRIPTION
0	CONDUIT TURNING UP
•	CONDUIT TURNING DOWN
E	TERMINATING CONDUIT. PROVIDE GROUND LUG AND INSULATED THROAT BUSHING.
	EXPOSED CONDUIT
	CONCEALED CONDUIT
	ARIEL CABLE
ВТР	BLUETOOTH BEACON PUCK
EX	ETHERNET EXTENDER
FPC	FLIGHT INFORMATION DISPLAY PC
FPD	FLAT PANEL DISPLAY
НСМ	HORIZONTAL CABLE MANAGEMENT
JB	JUNCTION BOX
MPC	MINIATURE COMPUTER
OSL	BATHROOM STALL OCCUPANCY SENSOR LIGHT
PCR	PASSENGER COUNTER REMOTE
PCS	PASSENGER COUNTER SENSOR
REC	REMOTE EQUIPMENT ENCLOSURE
SP1	A/V SPEAKER TYPE 1. MODEL JBL CONTROL 24CT
SP2	A/V SPEAKER TYPE 2
OSG	BATHROOM STALL OCCUPANCY SENSOR GATEWAY
TP1	TOUCH PANEL



7800 Airport Blvd Houston, TX 77061

> **HOU RESTROOM RENOVATIONS** PHASE 2

C.O.H. 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.:	2021.001
PROJECT STATUS:	IFB
REVISIONS	

No. DESCRIPTION DATE BY 03.22.22 PGA **ISSUED FOR BIDDING**

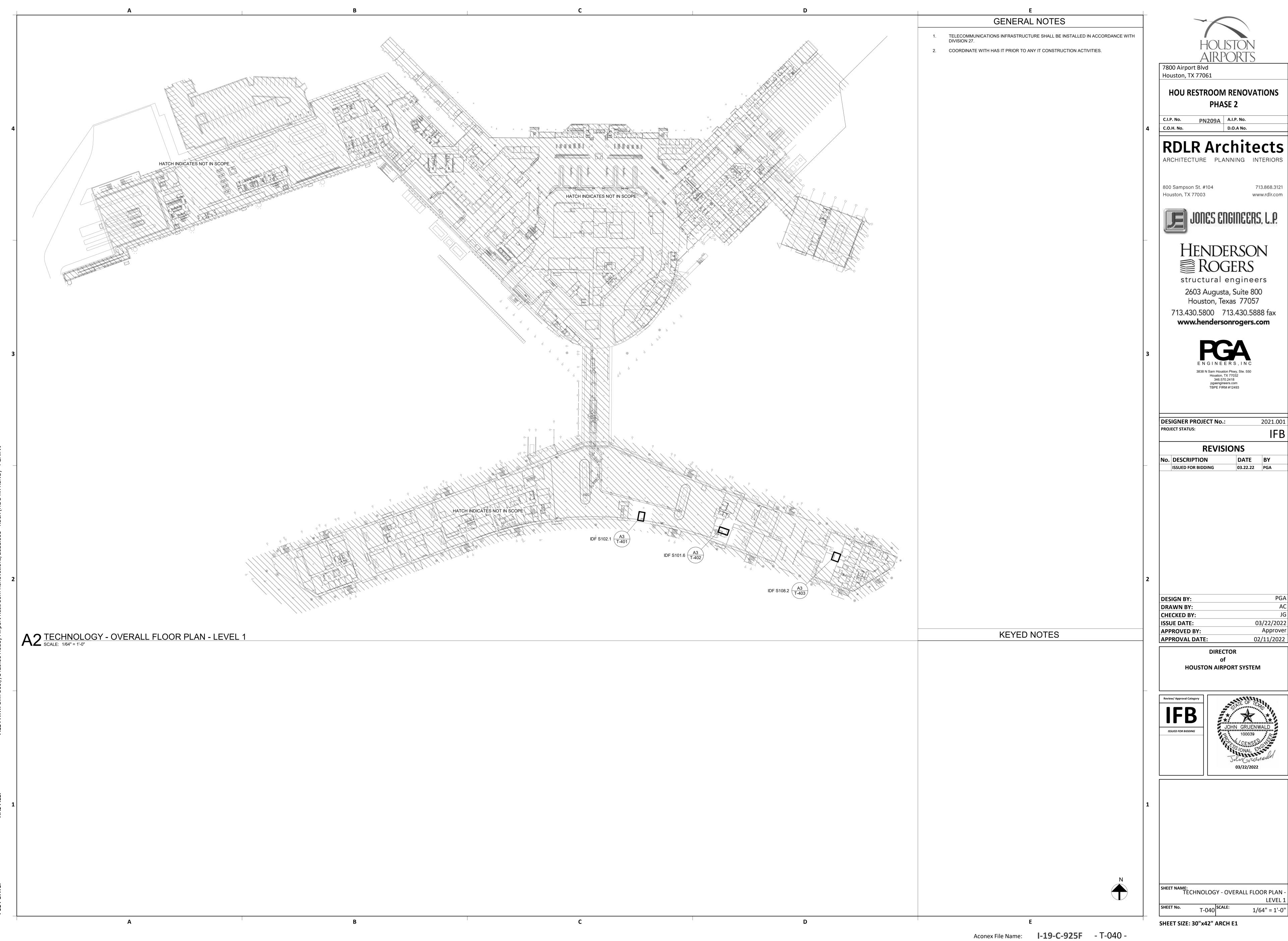
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> DIRECTOR HOUSTON AIRPORT SYSTEM

ISSUED FOR BIDDING

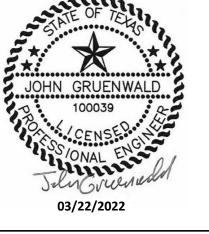


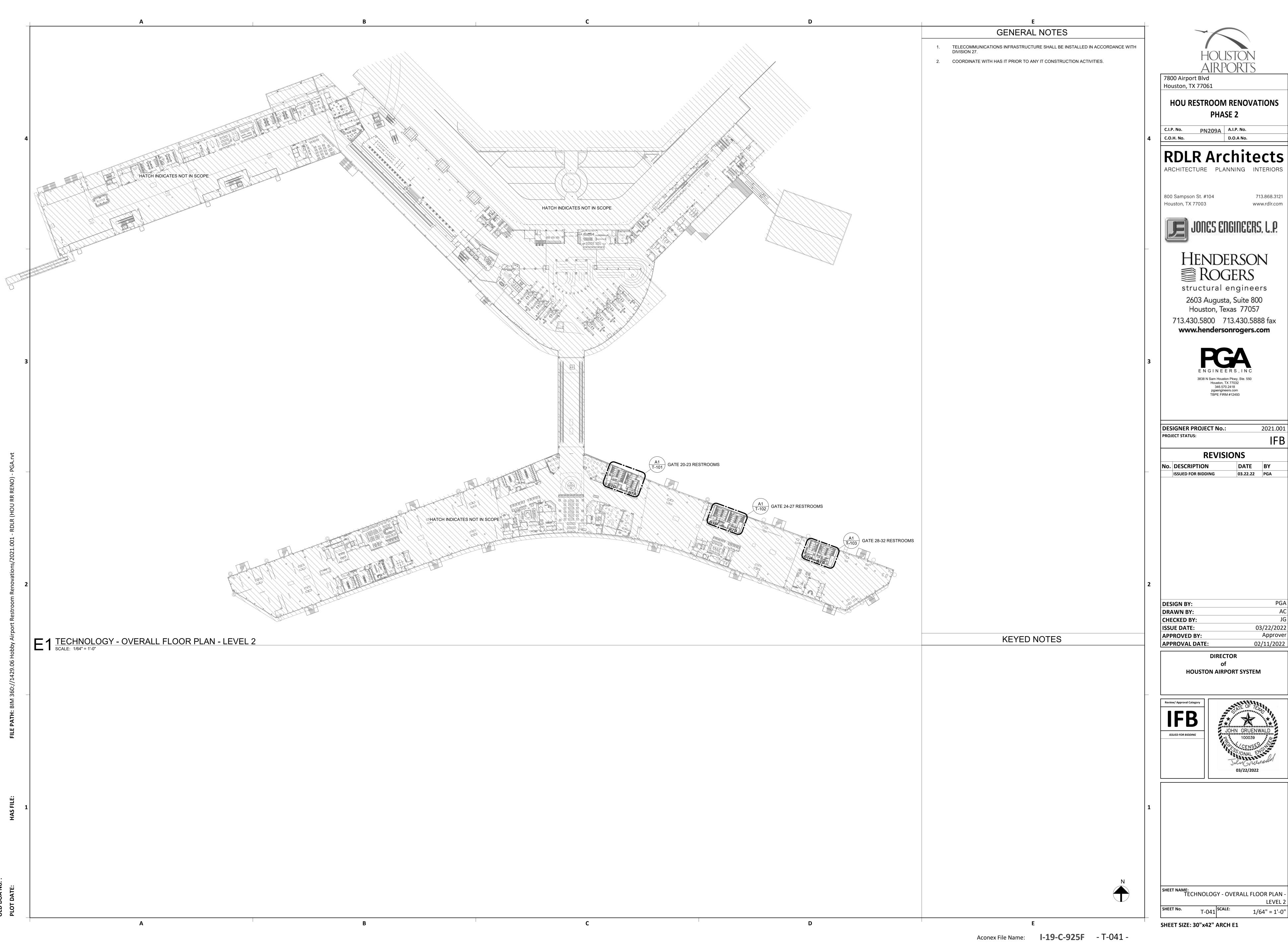
SHEET NAME: TECHNOLOGY - ABBREVIATIONS & SYMBOLS T-001 SCALE:





03/22/2022







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

800 Sampson St. #104

HOU RESTROOM RENOVATIONS PHASE 2

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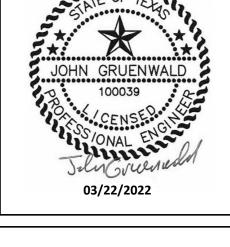
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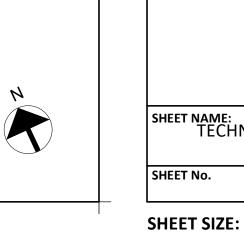
ISSUED FOR BIDDING

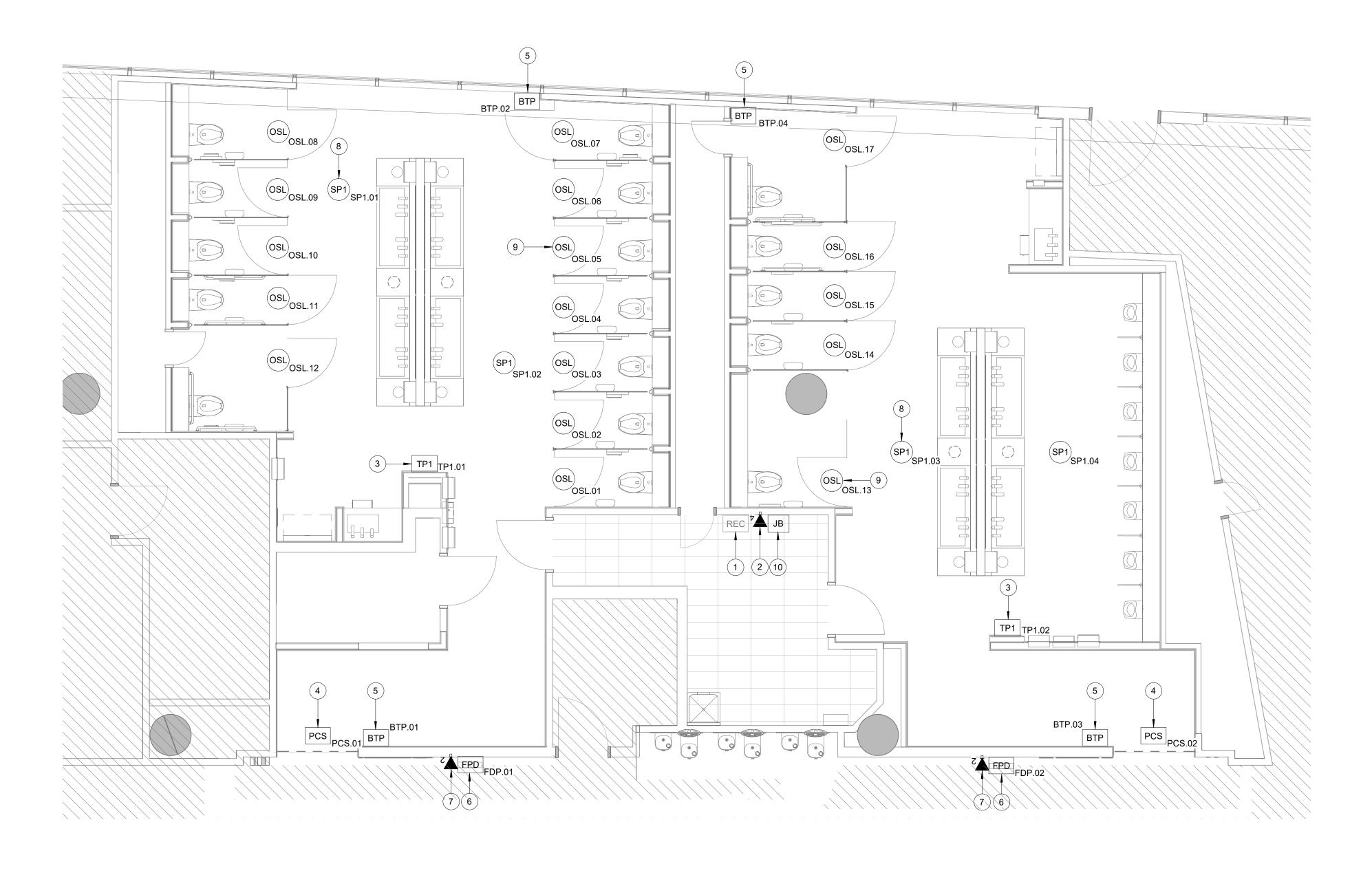
APPROVAL DATE:



02/11/2022

SHEET NAME: TECHNOLOGY - FLOOR PLAN - GATE 20-23





A 1 TECHNOLOGY - FLOOR PLAN - GATE 20-23 RESTROOMS

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

- 1 EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
- 4-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE NEW REC. 4 CAT6 CABLE ROUTED THROUGH A 1"C TO IDF S102.1.
- TABLET (TP1). LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX, FASTENED TO WALL WITH APPROVED WALL MOUNT HARDWARE. SUBMIT INSTALLATION DETAIL FOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.
- REPLACE EXISTING PASSENGER COUNT SENSOR WITH LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO
- REPLACE EXISTING BLUETOOTH BEACON PUCK WITH LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO
- 6 FLAT PANEL DISPLAY, LG 32SM5KE. MOUNTED TO WALL WITH SMARTMOUNT SF632P.
- 7 2-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED TO WALL. 4 CAT6 CABLE ROUTED THROUGH A 1"C TO IDF S102.1.
- 8 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.

GENERAL NOTES

TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH

KEYED NOTES

4-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE NEW REC. 4 CAT6 CABLE ROUTED THROUGH A 1"C TO IDF S101.6.

TABLET (TP1). LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX, FASTENED TO WALL WITH APPROVED WALL MOUNT HARDWARE. SUBMIT INSTALLATION DETAIL FOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.

REPLACE EXISTING PASSENGER COUNT SENSOR WITH LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO

6 FLAT PANEL DISPLAY, LG 32SM5KE. MOUNTED TO WALL WITH SMARTMOUNT SF632P.

7 2-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED TO WALL. 4 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.

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.

REPLACE EXISTING BLUETOOTH BEACON PUCK WITH LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO

1 EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).

- 2. COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- SCREENED DEVICES DENOTES EXISTING.
- 4. RETURN ANY DEMO'D TECHNOLOGY DEVICES TO HAS IT.



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> **HOU RESTROOM RENOVATIONS** PHASE 2

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DESIGNER PROJECT No.: 2021.001 PROJECT STATUS:

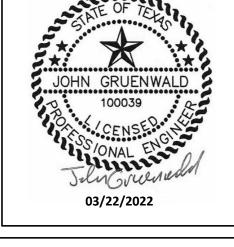
REVISIONS

No. DESCRIPTION DATE BY 03.22.22 PGA **ISSUED FOR BIDDING**

DESIGN BY: DRAWN BY: CHECKED BY: 03/22/2022 **ISSUE DATE:** Approver APPROVED BY: 02/11/2022 APPROVAL DATE:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

ISSUED FOR BIDDING



SHEET NAME: TECHNOLOGY - FLOOR PLAN - GATE 24-27 RESTROOMS

SP1.06 ____BTP.07____

A 1 TECHNOLOGY - FLOOR PLAN - GATE 24-27 RESTROOMS

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

Aconex File Name: I-19-C-925F - T-102 -

OSL OSL.29

(SP1) - (8) SP1.13

─__OSL.38/

SP1.10

__**!**__BTP.09

A 1 TECHNOLOGY - FLOOR PLAN - GATE 28-32 RESTROOMS

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

PCS PCS.05 BTP

KEYED NOTES

- 4-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED INSIDE NEW REC. 4 CAT6 CABLE ROUTED THROUGH A 1"C TO IDF S108.2.
- TABLET (TP1). LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX, FASTENED TO WALL WITH APPROVED WALL MOUNT HARDWARE. SUBMIT INSTALLATION DETAIL FOR APPROVAL PRIOR TO INSTALLATION AS REQUIRED.
- REPLACE EXISTING PASSENGER COUNT SENSOR WITH LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO
- REPLACE EXISTING BLUETOOTH BEACON PUCK WITH LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO
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- 7 2-PORT, SURFACE MOUNT DATA RECEPTACLE MOUNTED TO WALL. 4 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.

GENERAL NOTES

SCREENED DEVICES DENOTES EXISTING.

TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH

- 1 EXISTING WALL MOUNTED REMOTE EQUIPMENT ENCLOSURE (REC).
- 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.

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DESIGNER PROJECT No.: 2021.001 PROJECT STATUS:

REVISIONS

No. DESCRIPTION DATE BY

03.22.22 PGA **ISSUED FOR BIDDING**

DESIGN BY: DRAWN BY: CHECKED BY: 03/22/2022 **ISSUE DATE:** Approver APPROVED BY:

02/11/2022

DIRECTOR **HOUSTON AIRPORT SYSTEM**

ISSUED FOR BIDDING

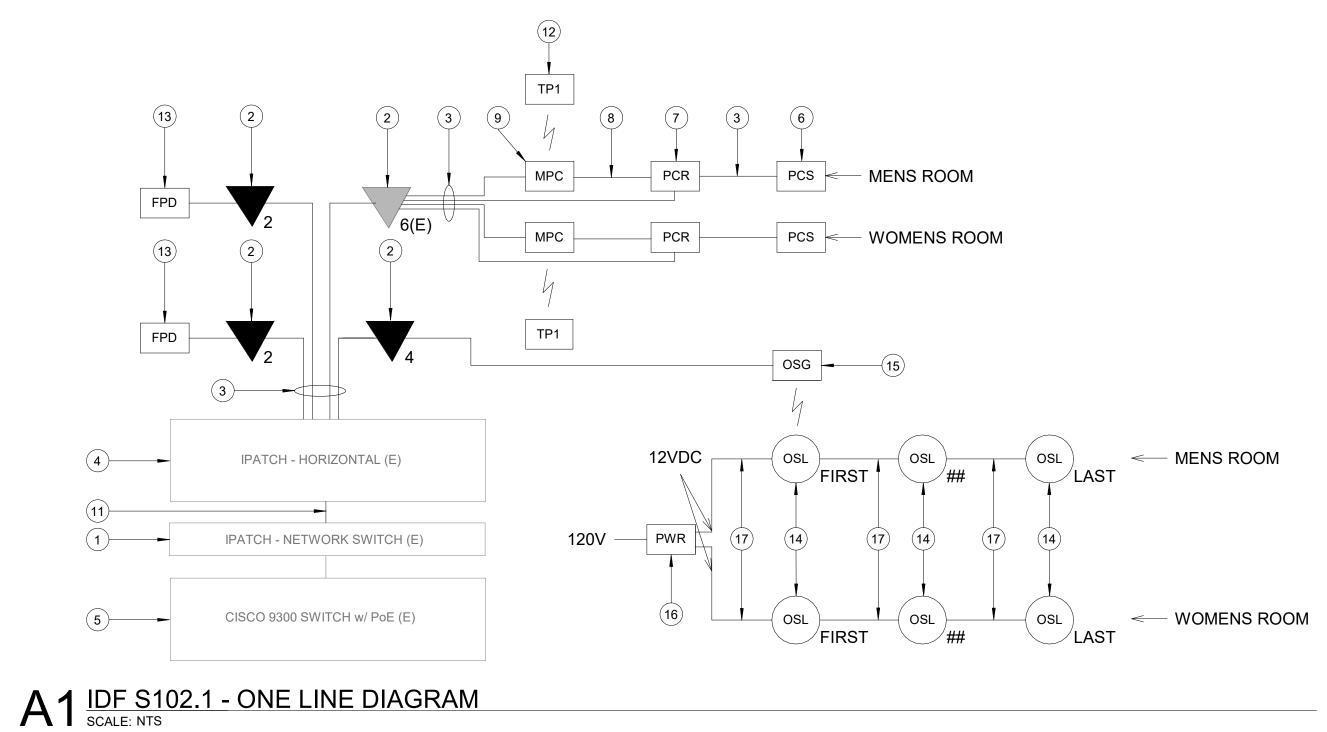
APPROVAL DATE:



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

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - T-103 -



RACK S102.1.02.01

A3 TECHNOLOGY - ENLARGED PLAN - IDF S102.1

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

\$102.1.01.03

\$102.1 01.02

(1) PATCH NET SWITCH **2U-CABLE MANAGER** 5 HOU-Y10-9308-3

IPATCH HORIZONTAL LUCENT FIBER PANEL CCTV- CAMERA EQUIP CHASSIS SECURITY- ACC CISCO 2950 **NET SWITCH** CABLE MANAGEMENT CISCO 2950 B HOU-WIFI-S102.1-3758-1 EXISTING

PWR STRIP

\$102.1.01.01

GENERAL NOTES

- TELECOMMUNICATIONS INFRASTRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH

KEYED NOTES

6 PASSENGER COUNT SENSOR, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.

PASSENGER COUNT SENSOR REMOTE, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. LOCATED IN GATE 20-23 RESTROOM JANITOR CLOSET REC, REFERENCE SHEET T-101.

9 MINI COMPUTER, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.

(10) EQUIPMENT RACK "01.03" (E). REFERENCE DETAIL "B3" ON THIS SHEET.

TABLET. LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. 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 POWER SUPPLY. MUST BE HARD WIRED BY ELECTRICIAN AND INSTALLED INTO A STANDARD 4-11/16" SQUARE

PLENUM RATED 16 GAUGE 2 CONDUCTOR WIRE. REFERENCE SPECIFICATIONS.

BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. LOCATED IN GATE 20-23 RESTROOM JANITOR CLOSET REC, REFERENCE SHEET T-101.

METAL JUNCTION BOX IN ACCORDANCE WITH APPLICABLE LOCAL ELECTRIC CODE.

1 IPATCH NETWORK SWITCH. (E)

2 CATEGORY 6 DATA RECEPTACLE.

5 CISCO 9300 NETWORK SWITCH. (E)

(11) CATEGORY 6 PATCH CORDS.

13 FLAT PANEL DISPLAY, LG 32SM5KE.

REFERENCE SPECIFICATIONS.

3 CATEGORY 6 CABLES.

8 USB CABLE.

4 IPATCH HORIZONTAL. (E)

- COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- SCREENED DEVICES DENOTES EXISTING.

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DESIGNER PROJECT No.: PROJECT STATUS:

REVISIONS

No. DESCRIPTION DATE BY 03.22.22 PGA **ISSUED FOR BIDDING**

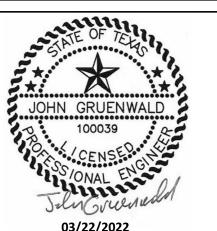
DESIGN BY: DRAWN BY: CHECKED BY: 03/22/2022 ISSUE DATE: APPROVED BY:

DIRECTOR

HOUSTON AIRPORT SYSTEM

ISSUED FOR BIDDING

APPROVAL DATE:



02/11/2022

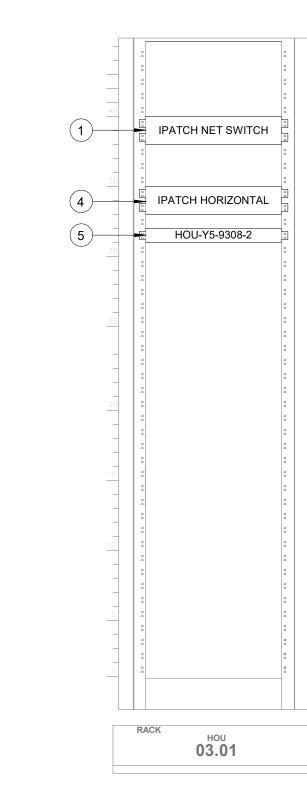
SHEET NAME: TECHNOLOGY - ENLARGED PLAN - IDF S102.1 As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - T-401 -

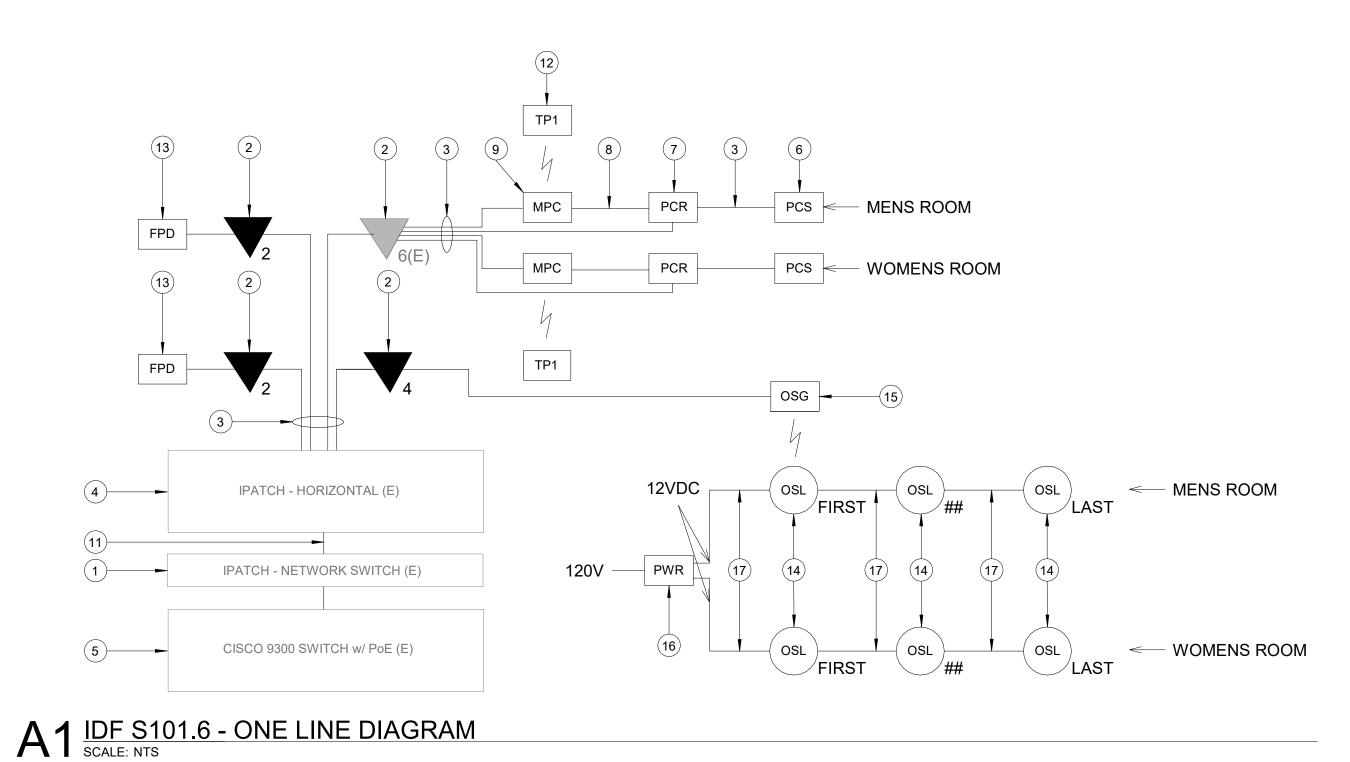
A3 TECHNOLOGY - ENLARGED PLAN - IDF S101.6

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
- 2. COORDINATE WITH HAS IT PRIOR TO ANY IT CONSTRUCTION ACTIVITIES.
- 3. SCREENED DEVICES DENOTES EXISTING.

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> **HOU RESTROOM RENOVATIONS** PHASE 2

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> 3838 N Sam Houston Pkwy, Ste. 550 Houston, TX 77032 346.570.2418 pgaengineers.com TBPE FIRM #12493

DESIGNER PROJECT No.:

REVISIONS

No. DESCRIPTION DATE BY

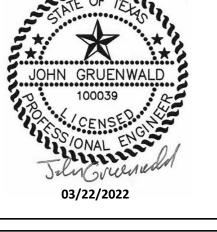
03.22.22 PGA **ISSUED FOR BIDDING**

DESIGN BY: DRAWN BY: CHECKED BY: 03/22/2022 ISSUE DATE: Approver APPROVED BY:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

ISSUED FOR BIDDING

APPROVAL DATE:



02/11/2022

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

SHEET SIZE: 30"x42" ARCH E1

KEYED NOTES

1 IPATCH NETWORK SWITCH. (E)

2 CATEGORY 6 DATA RECEPTACLE.

3 CATEGORY 6 CABLES.

4 IPATCH HORIZONTAL. (E)

5 CISCO 9300 NETWORK SWITCH. (E)

6 PASSENGER COUNT SENSOR, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.

7 PASSENGER COUNT SENSOR REMOTE, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. LOCATED IN GATE 24-27 RESTROOM JANITOR CLOSET REC, REFERENCE SHEET T-102.

8 USB CABLE.

9 MINI COMPUTER, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.

(10) EQUIPMENT RACK "03.01" (E). REFERENCE DETAIL "B3" ON THIS SHEET.

(11) CATEGORY 6 PATCH CORDS.

TABLET. LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION.

13 FLAT PANEL DISPLAY, LG 32SM5KE.

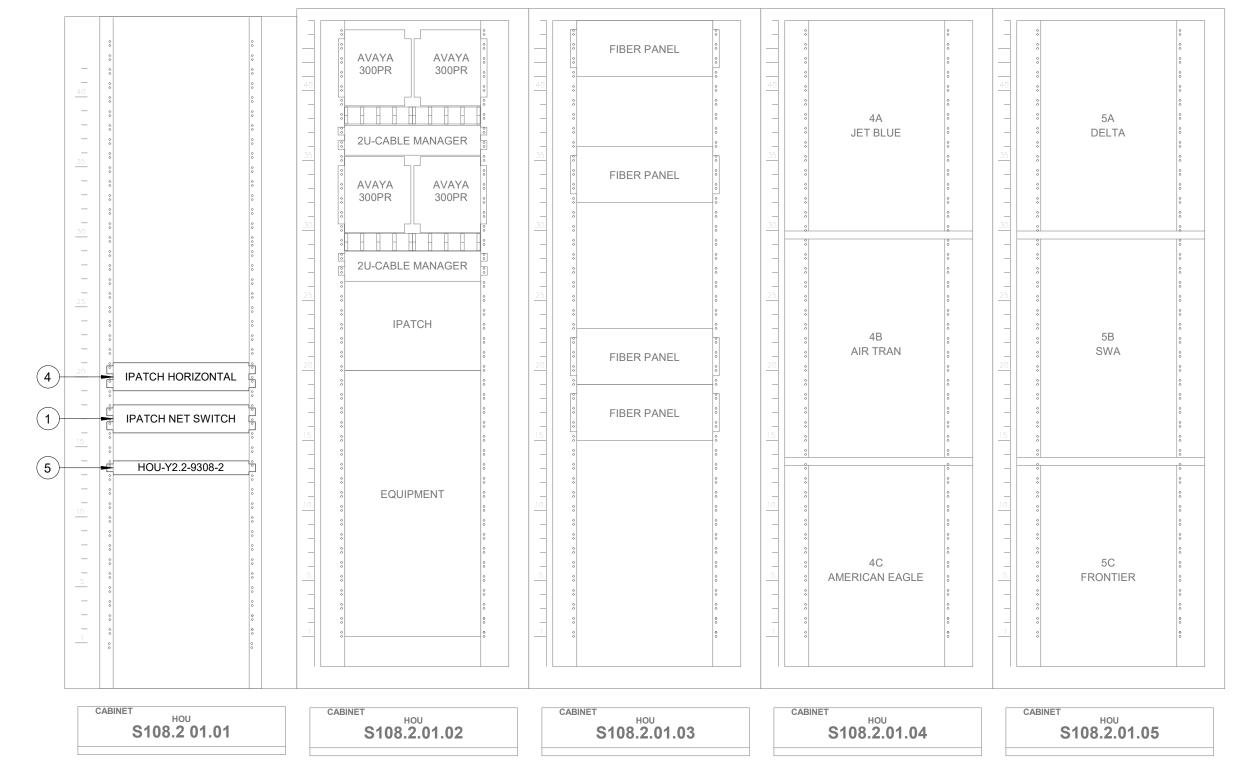
REFERENCE SPECIFICATIONS.

BATHROOM STALL OCCUPANCY LIGHTS, ZURN Z-LIGHT-W1. EXACT NUMBER DAISY-CHAINED NOT SHOWN, REFERENCE SHEET T-102.

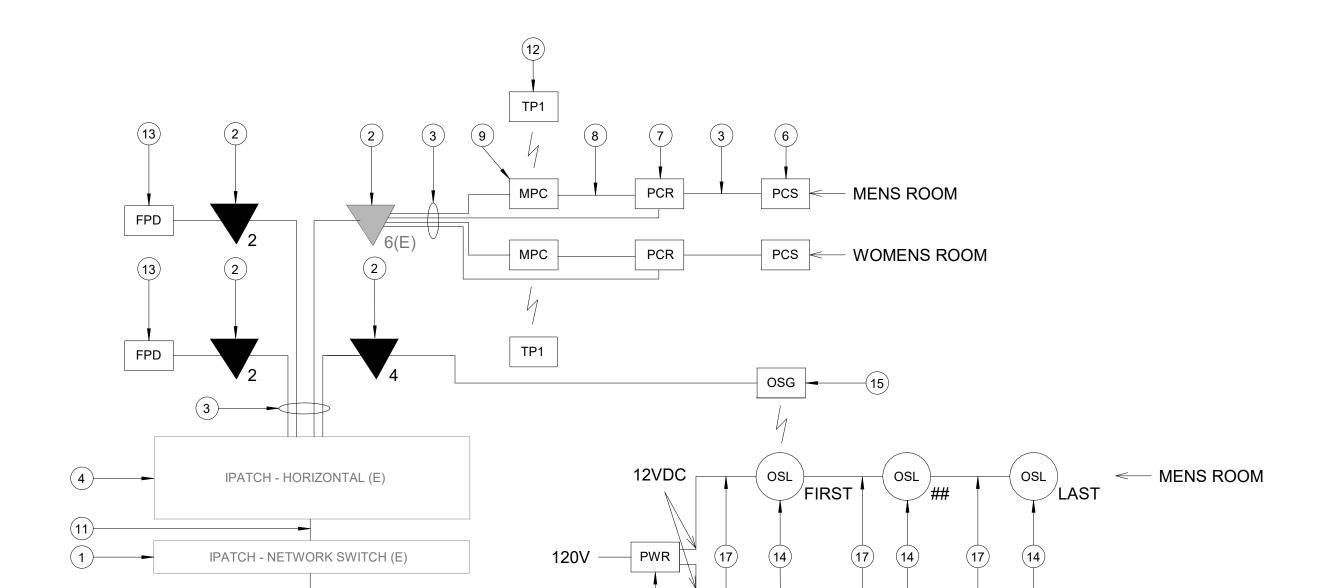
BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. LOCATED IN GATE 24-27 RESTROOM JANITOR CLOSET REC, REFERENCE SHEET T-102.

BATHROOM STALL OCCUPANCY LIGHT POWER SUPPLY. MUST BE HARD WIRED BY ELECTRICIAN AND INSTALLED INTO A STANDARD 4-11/16" SQUARE METAL JUNCTION BOX IN ACCORDANCE WITH APPLICABLE LOCAL ELECTRIC CODE.

PLENUM RATED 16 GAUGE 2 CONDUCTOR WIRE. REFERENCE SPECIFICATIONS.



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



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

CISCO 9300 SWITCH w/ PoE (E)

GENERAL NOTES

KEYED NOTES

TABLET. LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. 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 POWER SUPPLY. MUST BE HARD WIRED BY ELECTRICIAN AND INSTALLED INTO A STANDARD 4-11/16" SQUARE

PLENUM RATED 16 GAUGE 2 CONDUCTOR WIRE. REFERENCE SPECIFICATIONS.

BATHROOM STALL OCCUPANCY LIGHT GATEWAY, ZURN ZGW-WRP-W1-ETH. LOCATED IN GATE 28-32 RESTROOM JANITOR CLOSET REC, REFERENCE SHEET T-103.

METAL JUNCTION BOX IN ACCORDANCE WITH APPLICABLE LOCAL ELECTRIC CODE.

1 IPATCH NETWORK SWITCH. (E)

2 CATEGORY 6 DATA RECEPTACLE.

5 CISCO 9300 NETWORK SWITCH. (E)

(11) CATEGORY 6 PATCH CORDS.

13 FLAT PANEL DISPLAY, LG 32SM5KE.

REFERENCE SPECIFICATIONS.

3 CATEGORY 6 CABLES.

8 USB CABLE.

4 IPATCH HORIZONTAL. (E)

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

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> **HOU RESTROOM RENOVATIONS** PHASE 2

PN209A A.I.P. No.

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DESIGNER PROJECT No.:

REVISIONS No. DESCRIPTION DATE BY **ISSUED FOR BIDDING** 03.22.22 PGA

03/22/2022

DIRECTOR



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

SHEET SIZE: 30"x42" ARCH E1

6 PASSENGER COUNT SENSOR, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. PASSENGER COUNT SENSOR REMOTE, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. LOCATED IN GATE 28-32 RESTROOM JANITOR CLOSET REC, REFERENCE SHEET T-103. **DESIGN BY:** 9 MINI COMPUTER, LATEST HAS IT ADOPTED PRODUCT OFFERED BY TRAX/INFAX. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO INSTALLATION. DRAWN BY: CHECKED BY: (10) EQUIPMENT RACK "01.01" (E). REFERENCE DETAIL "C3" ON THIS SHEET. ISSUE DATE: APPROVED BY: APPROVAL DATE:

HOUSTON AIRPORT SYSTEM

ISSUED FOR BIDDING

Aconex File Name: I-19-C-925F - T-403 -

> **HOU RESTROOM RENOVATIONS** PHASE 2

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DESIGNER PROJECT No.: 2021.001 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY

ISSUED FOR BIDDING

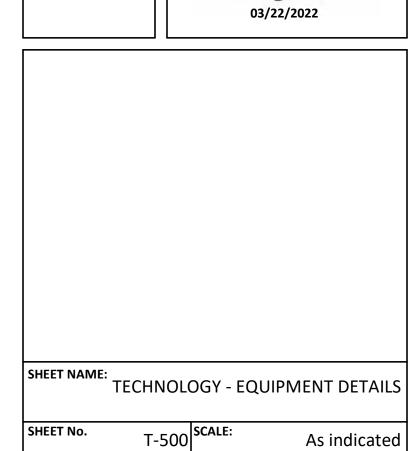
03.22.22 PGA

DESIGN BY: DRAWN BY: CHECKED BY: 03/22/2022 ISSUE DATE: APPROVED BY: 02/11/2022 APPROVAL DATE:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

ISSUED FOR BIDDING





SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - T-500 -

FDP.01 **GATE 20-23** 32SM5KE FDP.02 **GATE 20-23** 32SM5KE GATE 24-27 32SM5KE GATE 24-27 32SM5KE **GATE 28-32** 32SM5KE **GATE 28-32** FPD.06 32SM5KE GATE 20-23 Z-LIGHT-W1 **GATE 20-23** Z-LIGHT-W1 GATE 20-23 Z-LIGHT-W1 GATE 20-23 Z-LIGHT-W1 GATE 20-23 Z-LIGHT-W1 **GATE 20-23** ZURN Z-LIGHT-W1 GATE 20-23 ZURN Z-LIGHT-W1 **GATE 20-23** ZURN Z-LIGHT-W1 GATE 20-23 Z-LIGHT-W1 GATE 20-23 Z-LIGHT-W1 **GATE 20-23** Z-LIGHT-W1 **GATE 20-23** ZURN Z-LIGHT-W1 GATE 20-23 ZURN Z-LIGHT-W1 **GATE 20-23** ZURN Z-LIGHT-W1 GATE 20-23 ZURN Z-LIGHT-W1 **GATE 20-23** Z-LIGHT-W1 GATE 20-23 Z-LIGHT-W1 OSL.18 GATE 24-27 Z-LIGHT-W1 Z-LIGHT-W1 **GATE 24-27** ZURN Z-LIGHT-W1 **GATE 24-27** Z-LIGHT-W1 **GATE 24-27** Z-LIGHT-W1 **GATE 24-27** Z-LIGHT-W1 **GATE 24-27** Z-LIGHT-W1 GATE 24-27 ZURN Z-LIGHT-W1 **GATE 24-27** Z-LIGHT-W1 GATE 24-27 ZURN Z-LIGHT-W1 **GATE 24-27** ZURN Z-LIGHT-W1 GATE 24-27 Z-LIGHT-W1 **GATE 24-27** Z-LIGHT-W1 **GATE 24-27** ZURN Z-LIGHT-W1 OSL.32 **GATE 24-27** ZURN Z-LIGHT-W1 **GATE 28-32** ZURN Z-LIGHT-W1 **GATE 28-32** ZURN Z-LIGHT-W1 **GATE 28-32** ZURN Z-LIGHT-W1 **GATE 28-32** ZURN Z-LIGHT-W1 GATE 28-32 Z-LIGHT-W1 **GATE 28-32** Z-LIGHT-W1 **GATE 28-32** Z-LIGHT-W1 OSL.44 **GATE 28-32** ZURN Z-LIGHT-W1 **GATE 28-32** ZURN Z-LIGHT-W1 LATEST TRAX/INFAX SEE SPECIFICATIONS PCS.01 **GATE 20-23** LATEST TRAX/INFAX SEE SPECIFICATIONS **GATE 20-23** PCS.03 **GATE 24-27** LATEST TRAX/INFAX | SEE SPECIFICATIONS LATEST TRAX/INFAX SEE SPECIFICATIONS GATE 24-27 PCS.04 PCS.05 **GATE 28-32** LATEST TRAX/INFAX | SEE SPECIFICATIONS PCS.06 **GATE 28-32** LATEST TRAX/INFAX SEE SPECIFICATIONS SP1.01 **GATE 20-23** CONTROL 24CT GATE 20-23 **CONTROL 24CT** GATE 20-23 CONTROL 24CT **GATE 20-23** CONTROL 24CT **GATE 24-27** CONTROL 24CT **GATE 24-27** CONTROL 24CT **GATE 24-27** CONTROL 24CT GATE 24-27 **CONTROL 24CT GATE 28-32** CONTROL 24CT **GATE 28-32** CONTROL 24CT CONTROL 24CT **GATE 28-32** CONTROL 24CT **GATE 28-32** SP1.13 **GATE 28-32** CONTROL 24CT GATE 20-23 LATEST TRAX/INFAX | SEE SPECIFICATIONS LATEST TRAX/INFAX SEE SPECIFICATIONS

TECHNOLOGY SCHEDULE

LATEST TRAX/INFAX SEE SPECIFICATIONS

LATEST TRAX/INFAX SEE SPECIFICATIONS

LATEST TRAX/INFAX SEE SPECIFICATIONS

LATEST TRAX/INFAX | SEE SPECIFICATIONS LATEST TRAX/INFAX SEE SPECIFICATIONS

LATEST TRAX/INFAX | SEE SPECIFICATIONS

LATEST TRAX/INFAX | SEE SPECIFICATIONS

LATEST TRAX/INFAX SEE SPECIFICATIONS

MODEL

COMMENTS

MANUFACTURER

DEVICE ID LOCATION

BTP.03

BTP.04

BTP.05

BTP.06

GATE 20-23 GATE 20-23

GATE 20-23

GATE 20-23

GATE 24-27

GATE 24-27

GATE 24-27

GATE 24-27

GATE 28-32

GATE 28-32

GATE 28-32

GATE 28-32

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

GATE 24-27

GATE 24-27

GATE 28-32

GATE 28-32

LATEST TRAX/INFAX | SEE SPECIFICATIONS

LATEST TRAX/INFAX | SEE SPECIFICATIONS

LATEST TRAX/INFAX | SEE SPECIFICATIONS LATEST TRAX/INFAX SEE SPECIFICATIONS HOUSTON AIRPORTS

7800 Airport Blvd Houston, TX 77061

> **HOU RESTROOM RENOVATIONS** PHASE 2

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



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03.22.22 PGA

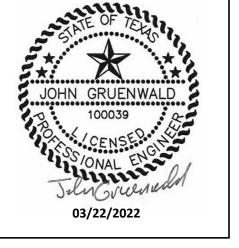
ISSUED FOR BIDDING

ESIGN BY:	PGA
RAWN BY:	AC
HECKED BY:	JG
SUE DATE:	03/22/2022
PPROVED BY:	Approver
PPROVAL DATE:	02/11/2022

DIRECTOR **HOUSTON AIRPORT SYSTEM**

IFB

ISSUED FOR BIDDING



1/16" = 1'-0"

SHEET NAME: TECHNOLOGY - EQUIPMENT SCHEDULES

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - T-600 -