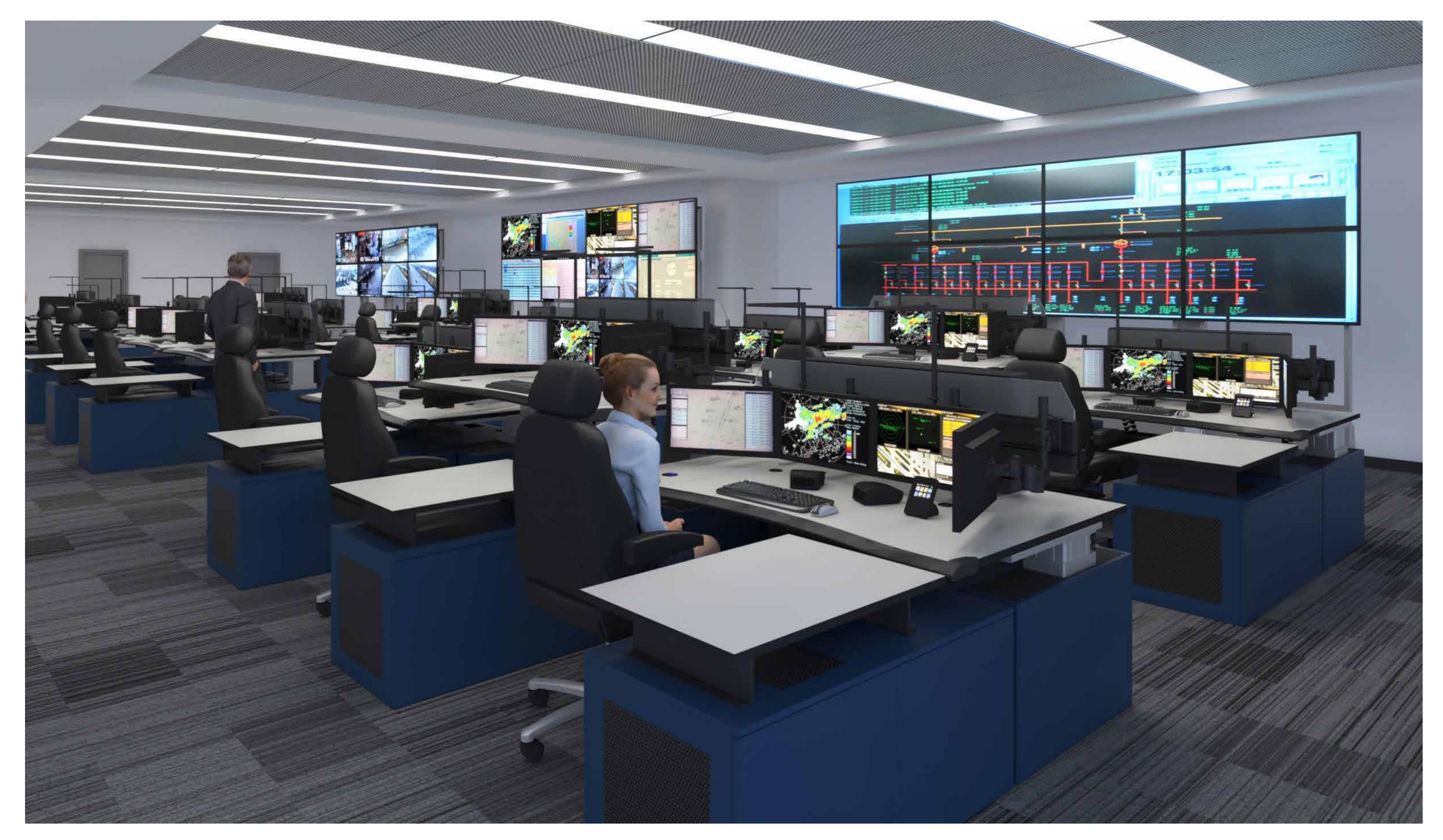


IAH INTEGRATED COORDINATION CENTER

HOUSTON AIRPORT SYSTEMS

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396



ISSUE FOR REVIEW

ISSUE DATE: 06/08/2023 PROJECT STATUS:

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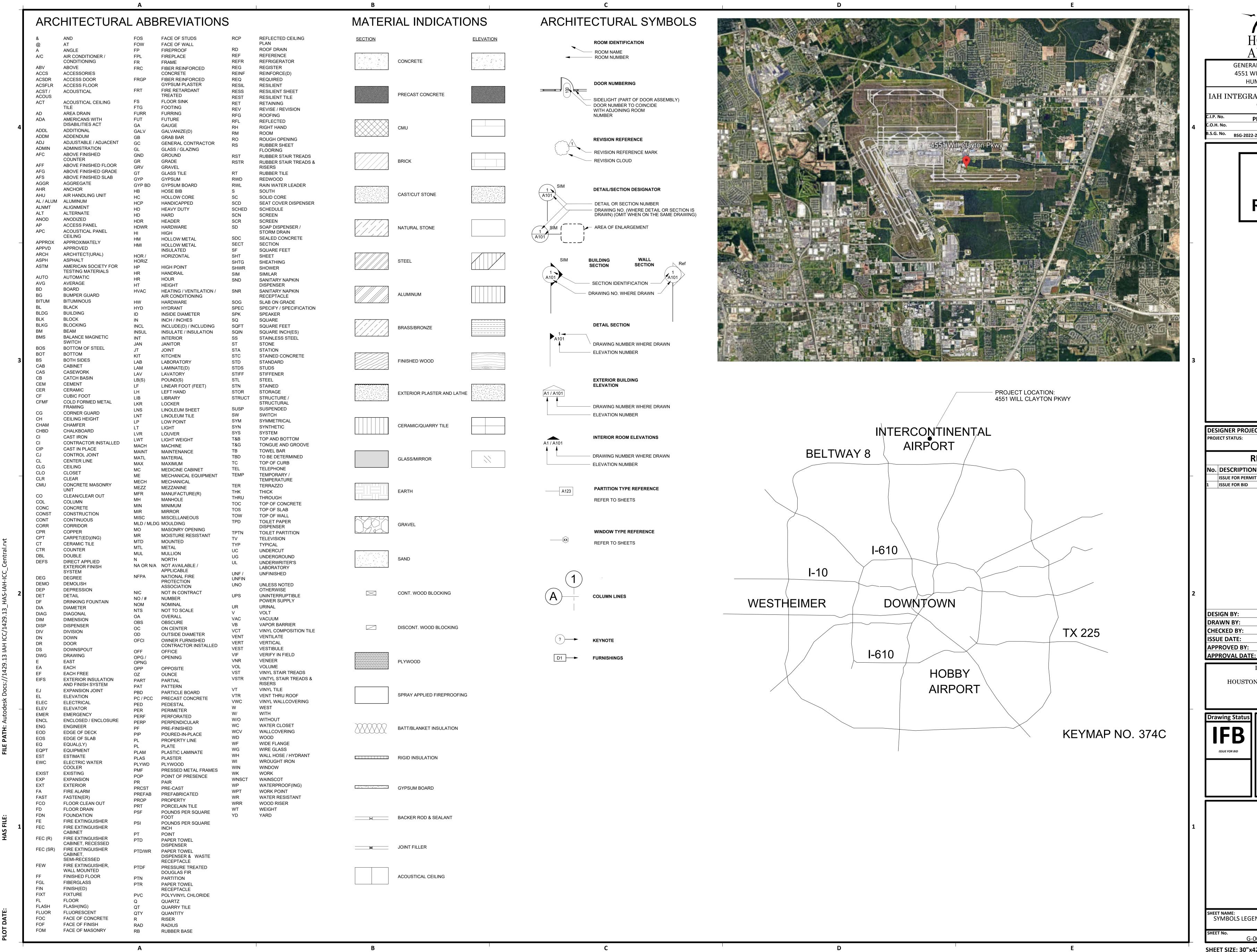
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SECURITY	TA-701	AV ONE LINE DIAGRAM
TY-001 SECURITY LEGEND AND NOTES		
TY-211 LEVEL 1 SECURITY PLAN - OVERALL		

TY-211 LEVEL 1 SECURITY PLAN - OVERALL Y-213 LEVEL 1 SECURITY PLAN - AREA B

TY-216 LEVEL 2 SECURITY PLAN - AREA B
TY-401 SECURITY ENLARGED PLAN AT MDF

TY-402 SECURITY ENLARGED PLAN AT IDF W205.4
TY-501 SECURITY EQUIPMENT SCHEDULES



IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: **REVISIONS**

ISSUE FOR BID 06/08/2023

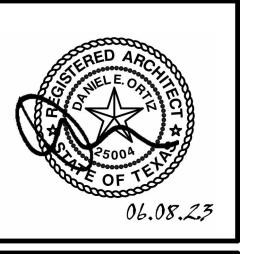
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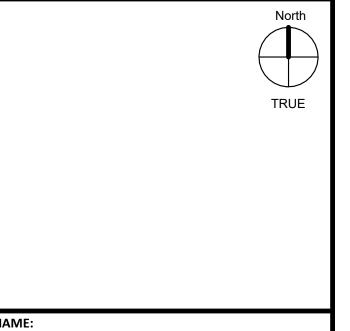
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> DIRECTOR HOUSTON AIRPORT SYSTEM

Drawing Status IFB ISSUE FOR BID





SYMBOLS LEGEND, ABBREVIATIONS, VICINIT As indicated

ACCESSIBILITY NOTES

ALL ENTRANCES AND GROUND FLOOR EXIT DOORS SHALL ALL REQUIRED EXIT DOORWAYS SHALL BE OF SIZE TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3' WIDTH AND 6'-8" IN HEIGHT U.N.O. MANUALLY OPERATED EDGE OR SURFACE MOUNTED

FLUSH BOLTS ARE PROHIBITED IN EXIT PATH. WHEN EXIT DOORS USED IN PAIRS AND APPROVED AUTOMATIC FLUSH BOLTS ARE USED, THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS SHALL HAVE NO DOOR KNOB OR URFACEMOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE HARDWARE. HAND ACTIVATED DOOR HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR. EXIT DOORS SHALL OPEN TO A CLEAR WIDTH OF NOT LESS

WHERE A PAIR OF DOORS IS PROVIDED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF THE DOOR SWING OF AT LEAST 60" AND A LENGTH OPPOSITE THE DIRECTION OF THE DOOR SWING OF 48". THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE

EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR DOORS. PROVIDE A CLEAR SPACE OF 12" PAST THE STRIKE EDGE OF THE DOOR ON THE OPPOSITE SIDE TO WHICH THE DOOR SWINGS IF THE DOOR IS EQUIPPED WITH BOTH A LATCH AND CLOSER THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.

WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR 14. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 15 LBS FOR EXTERIOR DOORS AND 5 LBS FOR INTERIOR DOORS

THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND

SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED

SURFACE TO ALLOW THE DOOR TO BE OPENED BY A

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 LEADING TO AN EXIT EVERY AISLE SHALL NOT BE LESS THAN 3' WIDTH IF

SERVING ONLY ONE SIDE, AND NOT LESS THAN 3'-8" WIDTH IF SERVING BOTH SIDES. 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 HIGHEST AND LOWEST OPERABLE PART OF ALL CONTROLS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN 48" OF THE FLOOR BUT NOT LOWER THAN 15" IF FORWARD APPROACHED AND WITHIN 54" BUT NOT LOWER THAN 9" IF SIDE APPROACHED. ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLES SHALL NOT BE PLACED LESS THAN 15" ABOVE THE FLOOR. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING OR TWISTING OF THE WRIST. THE FORCE

REQUIRED TO OPERATE CONTROLS SHALL BE NO **GREATER THAN 5 LBS** 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. 24. THE MINIMUM CLEAR WIDTH FOR A SINGLE WHEELCHAIR PASSAGE SHALL BE 32" AT A POINT AND 36"

THE MINIMUM CLEAR WIDTH FOR 2 WHEELCHAIRS TO PASS SHALL BE 60".

CONTINUOUSLY.

OF THE DOOR.

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 48" IN LENGTH. 27. IF SEATING FOR PEOPLE IN WHEELCHAIRS IS PROVIDED AT FIXED TABLES OR COUNTERS, KNEE SPACES AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP SHALL BE PROVIDED. THE TOPS OF TABLES AND COUNTERS SHALL BE 28" TO 34"

FROM THE FLOOR. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE AND SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 599B. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF

ACCESSIBILITY. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING

WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING: LETTERS AND NUMBERS SHALL BE RAISED OR RECESSED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH. PICTORIAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.

TEXAS ACCESSIBILITY STANDARDS.

CONTRACTOR SHALL NOTIFY ARCHITECT SHOULD ANY OF

THE ABOVE GENERAL NOTES BE IN CONFLICT WITH THE

ELECTRICAL NOTES

ALL CONDUIT FEEDS TO ELECTRICAL DEVICES MOUNTED ON WALLS SHALL BE PLACED WITHIN THE WALL FOR CONCEALMENT, REGARDLESS OF THE HEIGHT OF THE WALL MOUNTED DEVICE U.N.O.

ALL ELECTRICAL POWER OUTLETS SHALL BE COMMERCIAL GRADE IN ALL AREAS. FACE PLATES SHALL BE STAINLESS STEEL WITH STAINLESS STEEL FLAT HEAD SCREW FASTENERS TO MATCH. ALL DEVICE AND FACEPLATE COLORS ARE TO BE VERIFIED WITH THE

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 ARCHITECT 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.

STRUCTURED CEILING SOFFITS SHALL HAVE POWER FED FROM CONCEALED CONDUITS WHICH EXTEND FROM THE PERIMETER WALL

EXIT SIGNS ARE INDICATED FOR DESIGN INTENT. VERIFY PROPOSED LOCATIONS ARE ACCEPTABLE TO THE BUILDING AUTHORITY AND NOTIFY ARCHITECT OF REQUIRED CHANGES DIRECTED BY THE BUILDING AUTHORITY PRIOR TO INSTALLATION.

14. ALL WALL RECEPTACLES AND SWITCHES SHALL BE WHITE, UNLESS INDICATED OTHERWISE.

NOTES ON THIS SHEET.

15. COORDINATE CONDUIT REQUIREMENTS FOR MECHANICAL SYSTEM DEVICES SUCH AS THERMOSTATS AND CO2 SENSORS TO COMPLY WITH THE NOTES HEREIN. SEE NOTE 7 ON THE REFLECTED CEILING PLAN GENERAL

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 ARCHITECT BEFORE PROCEEDING WITH AN ALTERNATIVE PRODUCT TO THAT WHICH IS SPECIFICALLY IDENTIFIED IN THE DRAWINGS.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES, FIXTURE MOUNTING HEIGHTS, AND FIXTURE MOUNTING DETAILS: NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN THE INDICATED MOUNTING REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDED INSTALLATION DETAILS PRIOR TO ORDERING AND PURCHASING OF FIXTURES.

ALL FIXTURE FINISHES ARE TO BE VERIFIED WITH THE ARCHITECT.

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.

SEE NOTE 7 ON THE REFLECTED CEILING PLAN NOTES.

MECHANICAL NOTES

PROVIDE CONDUIT RUNS FOR REQUIRED THERMOSTATS AND CO2 SENSORS BASED ON CRITERIA INDICATED IN THE ELECTRICAL NOTES ABOVE. RUN CONDUIT FOR WALL MOUNTED DEVICES UNDER THE FLOOR, AND RUN CONDUIT FOR CEILING MOUNTED DEVICES WITHIN THE CEILING. DO NOT EXTEND CONDUIT FROM CEILING TO WALL UNLESS CONDUIT IS COMPLETELY CONCEALED FROM VIEW.

SEE NOTE 7 ON THE REFLECTED CEILING PLAN GENERAL NOTES ON THIS SHEET.

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 ARCHITECT OF ANY REQUIRED VARIATIONS TO THE INDICATED DESIGN INTENT PRIOR TO SUBMITTING BIDS FOR THE WORK, PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.

ALL ACCESS HATCHES TO BE KEYED ALIKE.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS 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 ARCHITECT.

WHERE DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. INCLUDING THE QUANTITY OF FIXTURES INDICATED, THE CONTRACTOR SHALL ASK THE ARCHITECT 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 ARCHITECT OF ANY REQUIRED VARIATIONS TO THE INDICATED ARCHITECTURAL LAYOUTS PRIOR TO PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.

NOTIFY ARCHITECT OF ANY VARIATIONS BETWEEN THE NOTES HEREIN AND DRAWINGS, DETAILS, OR SPECIFICATIONS PRIOR TO PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.

FIRE DEPARTMENT NOTES

AN AUTOMATIC FIRE SPRINKLER SHALL BE PROVIDED THROUGHOUT WITH A GROUP I FIRE AREA. THE SYSTEM SHALL BE DESIGNED, INSTALLED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH THE 2015 IFC, AND NFPA STANDARD 13, 2012 EDITION. AN AUTOMATIC FIRE SPRINKLER SHALL BE DESIGN BUILD BY CONTRACTOR. CONTRACTOR SHALL SUBMIT DESIGN DOCUMENTS TO ARCHITECT TO REVIEW FOR GENERAL DESIGN COMPLIANCE, AND TO FIRE DISTRICT AS REQUIRED FOR PERMIT. WINDOWLESS BUILDINGS SHALL BE PROVIDED WITH AN

ENGINEERED SMOKE CONTROL SYSTEM TO PROVIDE VENTILATION IN ACCORDANCE WITH IBC/IFC SECTION 909 FOR EACH WINDOWLESS SMOKE COMPARTMENT. REFER TO MECHANICAL DOCUMENTS. AN ENGINEERED SMOKE CONTROL SYSTEM SHALL UNDERGO SPECIAL INSPECTIONS AND TESTS SUFFICIENT TO VERIFY THE PROPER COMMISSIONING. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH IFC SECTION 906.2 AND PLANS FOR ALL FIRE PROTECTION SYSTEMS (SPRINKLER, FIRE ALARM, SMOKE CONTROL, STANDPIPE, ETC.) MUST BE APPROVED BY THE FIRE DISTRICT PRIOR TO COMMENCEMENT OF ANY WORK ON A FIRE PROTECTION SYSTEM, WHETHER THE SYSTEM IS REQUIRED OR NOT.

PLANS MUST BE SUBMITTED BY CONTRACTOR AND MUST INCLUDE AT LEAST 2 COMPLETE SETS OF SYSTEM RAWINGS AND SPECIFICATIONS FOR ALL DEVICES TO BE INSTALLED.

FIRE SPRINKLER/FIRE ALARM NOTES

FIRE SPRINKLERS SHALL BE DESIGNED BY A LICENSED

FIRE PROTECTION ENGINEER HIRED BY THE FIRE PROTECTION CONTRACTOR. ALL REQUIRED SUBMITTALS SHALL BE PREPARED FOR REVIEW BY ARCHITECT. FOR CONFORMANCE WITH ARCHITECTURAL DESIGN INTENT AND BY THE AUTHORITIES HAVING JURISDICTION, FOR CONFORMANCE WITH LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES. FIRE SPRINKLER DESIGN SHALL INCLUDE CALCULATIONS FOR THE SIZE OF THE REQUIRED FIRE MAIN, SPRINKLER DISTRIBUTION LAYOUT, FIRE ALARM SYSTEM, AND SHALL INCLUDE ALL RELATED SYSTEM COMPONENTS AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION. ALL FIRE SPRINKLERS AND FIRE ALARMS TO BE LABELED IN A MANNER SIMILAR TO ELECTRICAL EQUIPMENT AS NOTED IN SPECIFICATIONS. FIRE SPRINKLER PIPING SHALL NOT BE DESIGNED OR LOCATED TO BE EXPOSED TO VIEW WITHIN AN OPEN SKYLIGHT, LIGHT WELL, OR IN FRONT OF A CLERESTORY WINDOW, UNLESS SPECIFICALLY INDICATED AS SUCH WITHIN THE DOCUMENTS. FURTHERMORE, WHERE SKYLIGHTS, LIGHT WELLS, OR CLERESTORIES EXIST AND SPRINKLERS ARE REQUIRED, CONTRACTOR SHALL SIDE-WALL AND/OR CONCEAL THE SPRINKLER SYSTEM COMPONENT IN A MANNER ACCEPTABLE TO ARCHITECT AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL ROUTE ALL FIRE SPRINKLER PIPING IN CONCEALED SPACES WHERE SUCH PIPING MUST CROSS OVER A SKYLIGHT, LIGHT WELL OR CLERESTORY. WHERE NO CONCEALED SPACES EXISTS, CONTRACTOR SHALL REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO PLACING A BID FOR THE WORK. SPRINKLER HEADS AND OTHER VISIBLE CEILING COMPONENTS INDICATED ARE PART OF THE ARCHITECTURAL DESIGN INTENT, AND QUANTITIES INDICATED MAY EXCEED MINIMUM QUANTITIES REQUIRED FOR SYSTEM PERFORMANCE. PROVIDE THE QUANTITIES FOR THE LAYOUT INDICATED, AND NOTIFY ARCHITECT IF ADDITIONAL QUANTITIES ARE REQUIRED. IT IS THE DESIGN INTENT TO CONSEAL SPRINKLER PIPING. SIDEWALL ALL HEADS IN EXPOSED AREAS. ALL SPRINKLER HEADS WITHIN PAINTED GYPSUM BOARD OR ACT CEILINGS SHALL BE WHITE COLORED CONCEALED TYPE HEADS UNLESS OTHERWISE NOTED. SPRINKLER PIPE DISTRIBUTION LINES SHALL BE PLACED BELOW STEEL BEAMS WITHIN THE OPEN WEB JOIST CAVITY, IN CONCEALED AREAS.

SPRINKLER PIPE DISTRIBUTION LINES SHALL BE PLACED PERPENDICULAR OR PARALLEL TO EXPOSED STRUCTURAL BEAMS AND JOISTS, COORDINATE LOCATION WITH THE

COMPLIANCE WITH THE ARCHITECTURAL DESIGN INTENT PRIOR TO FABRICATION AND INSTALLATION OF SYSTEM. NO

AND OTHER COMPONENTS SHALL BE PAINTED TO MATCH

WALL WILL BE ALLOWED TO PROCEED WITHOUR

12. ALL EXPOSED SPRINKLER PIPING, FITTINGS, HANGARS

THE EXPOSED CEILING DECK AND STRUCTURE.

11. SUBMIT COORDINATION DRAWINGS INDICATING

COORNINATON DRAWINGS.

REFER TO MEP DRAWING

ARCHITCT.

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.

2. ALL EXTERIOR WALL STUD FRAMING SHALL BE STRUCTURAL COLD FORMED STUDS, DESIGNED AND ENGINEERED BY THE CONTRACTOR FOR ANY APPLIED DESIGN LOADS OR ANCHORAGE OF ADJACENT BUILDING COMPONENTS. STUD GAUGES INDICATED ON THE DRAWINGS ARE MINIMUMS ONLY, AND DO NOT REPRESENT AN ENGINEERED DESIGN FOR THE DETAILED APPLICATION.

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. MISCELLANEOUS STUD FRAMING FOR SOFFITS AND

GENERAL DESIGN INTENT AND PROFILE ONLY.

OTHER ARCHITECTURAL ELEMENTS ARE INDICATED FOR

CONTRACTOR SHALL PROVIDE ADDITIONAL BRACING 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

FRAMING AS NECESSARY TO MEET THE DESIGN AND

7. 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 ARCHITECT PRIOR TO INSTALLATION.

IN THE DOCUMENTS.

SEALANT JOINTS DESIGNED AS REVEALS ARE INDICATED GRAPHICALLY AS RECESSED, AND MAY ALSO BE NOTED AS "RECESSED". MAINTAIN A CONSISTENT BACK OF REVEAL DEPTH.

COORDINATE THE ACCURATE INSTALLATION OF TOILET ROOM WALL PARTITIONS. DO NOT PROCEED WITH TILE INSTALLATION UNTIL BOTH METAL FRAMER AND TILE INSTALLER HAVE INDEPENDENTLY VERIFIED THE PARTITION LAYOUT

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, ARCHITECT. SPECIAL INSPECTIONS ARE REQUIRED FOR THE

FOLLOWING WORK, BUT ARE NOT LIMITED TO: a. ANCHOR BOLTS INSTALLED IN CONCRETE

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:

FIRE ALARM SYSTEM. NON-STRUCTURAL MISCELLANEOUS STEEL

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.

GENERAL NOTES

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

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, AND GOVERNING CODES.

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 SUCH WORK.

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.

10. 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 AND AGENCIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF THE CONSTRUCTION ON THE

13. 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.

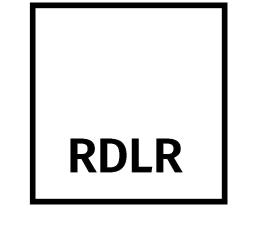
17. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT PRIOR TO STARTING THE WORK A COMPREHENSIVE LAYOUT INDICATING DIMENSIONAL CRITERIA FOR ALL VISIBLE BUILDING ELECTRICAL, SECURITY, LIFE SAFETY, CONTROLS, AND OTHER EQUIPMENT.

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.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, **HUMBLE, TX 77396**

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. **N/Δ** D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



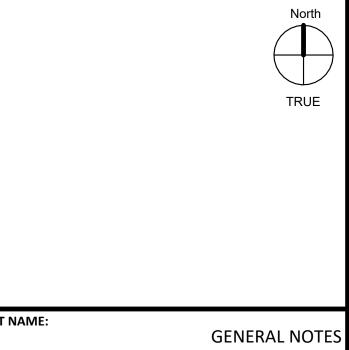
DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 ISSUE FOR BID 06/08/2023

DENISE YE DESIGN BY: DENISE YE DRAWN BY: DANIEL ORTIZ **CHECKED BY:** 06/08/2023 **ISSUE DATE:** DANIEL ORTIZ **APPROVED BY:** 06/08/2023 APPROVAL DATE:

> DIRECTOR HOUSTON AIRPORT SYSTEM

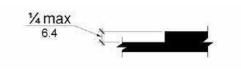






302 FLOOR OR GROUND SURFACES

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 STEEPER THAN 1:2. 303.4 RAMPS. CHANGES IN LEVEL GREATER THAN 1/2 INCH (13 MM) HIGH SHALL BE RAMPED. AND SHALL COMPLY WITH 405 OR 406.



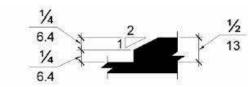


FIG. 303.2 VERTICAL CHANGE IN LEVEL

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 PERMITTED.

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.

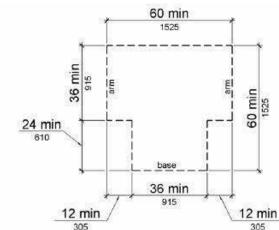


FIG. 304.3.2 T-SHAPED TURNING SPACE

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

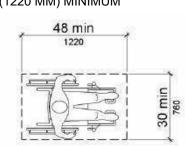


FIG. 305.3 CLEAR FLOOR OR GROUND SPACE

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

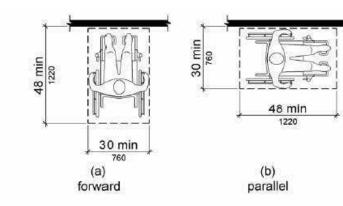
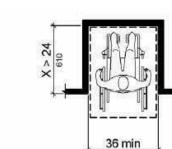


FIG. 305.5 POSITION OF CLEAR FLOOR OR GROUND SPACE **305.6 APPROACH.** ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE. 305.7 MANEUVERING CLEARANCE. WHERE A CLEAR FLOOR OR GROUND SPACE IS LOCATED IN AN ALCOVE 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

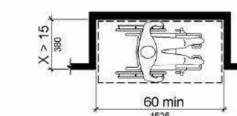


FIG. 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

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

306.2.5 WIDTH. TOE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.

FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

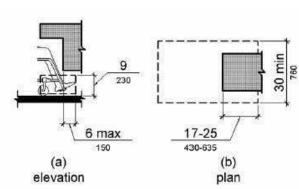
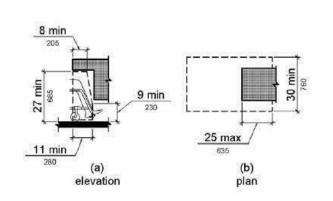


FIG. 306.2 TOE CLEARANCE

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

FIGURE 306.3 KNEE CLEARANCE

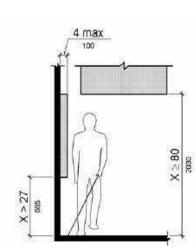


FIG. 307.2 LIMITS OF PROTRUDING OBJECTS

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.

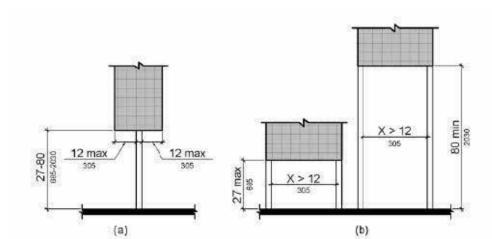
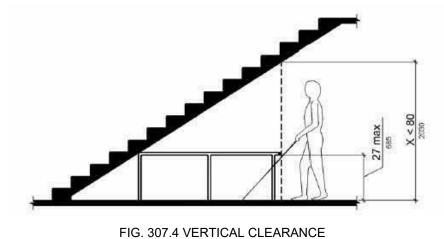


FIG. 307.3 POST-MOUNTED PROTRUDING OBJECTS

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

308.2.1 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 GROUND.

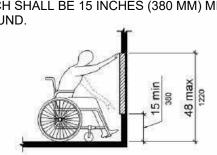


FIG. 308.2.1 UNOBSTRUCTED FORWARD REACH

308.1 GENERAL. REACH RANGES SHALL COMPLY WITH 308

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 GROUND.

308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVEI 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.

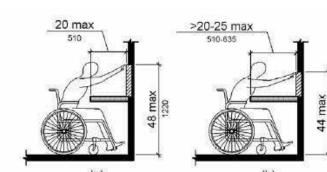


FIG. 308.2.2 OBSTRUCTED HIGH FORWARD REACH

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.

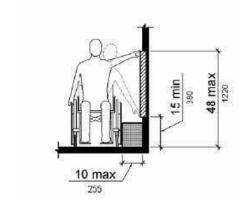


FIG. 308.3.1 UNOBSTRUCTED SIDE REACH

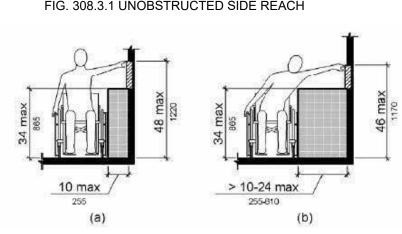


FIG. 308.3.2 OBSTRUCTED HIGH SIDE REACH

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.

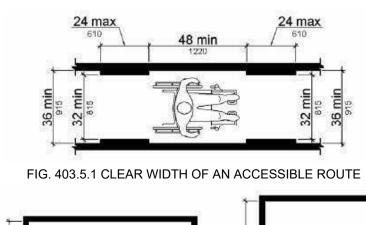
402 ACCESSIBLE ROUTES

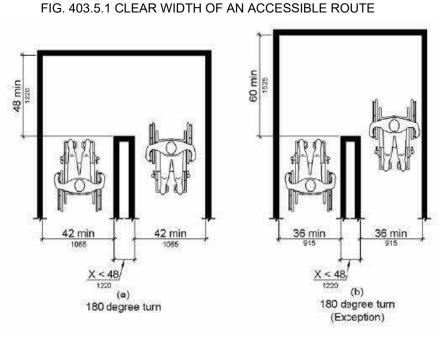
402.1 GENERAL. ACCESSIBLE ROUTES SHALL COMPLY WITH 402. **402.2 COMPONENTS.** ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 4.

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 COMPLY WITH 302 403.3 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 COMPLYING WITH 403.5 **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 **403.6 HANDRAILS.** WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH RUNNING SLOPES NOT STEEPER THAN 1:20 THEY SHALL COMPLY WITH 505.





404 DOORS, DOORWAYS, AND GATES

404.1 GENERAL. DOORS, DOORWAYS, AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 404. 404.2 MANUAL DOORS, DOORWAYS, AND MANUAL GATES. MANUAL DOORS AND DOORWAYS AND MANUAL GATES INTENDED FOR USER PASSAGE SHALL COMPLY WITH 404.2. **404.2.1 REVOLVING DOORS**, GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE. **404.2.2 DOUBLE-LEAF DOORS AND GATES.** AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 404.2.3 AND 404.2.4. **404.2.3 CLEAR WIDTH.** DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (815 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP. WITH THE DOOR OPEN 90. DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (915 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (865 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (865 MM) AND 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (100 MM). 404.2.4 MANEUVERING CLEARANCES. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 404.2.4. MANEUVERING CLEARANCES SHALL EXTEND THE FULL

WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE.

404.2.4.1 SWINGING DOORS AND GATES. SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.1. 404.2.4.2 DOORWAYS WITHOUT DOORS OR GATES, SLIDING DOORS, AND FOLDING DOORS. DOORWAYS LESS THAN 36 INCHES (915 MM) WIDE WITHOUT DOORS OR GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.2. 404.2.4.3 RECESSED DOORS AND GATES. MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES (455 MM) OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 INCHES (205 MM) BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE 404.2.4.4 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH 302. CHANGES IN LEVEL

ARE NOT PERMITTED 404.2.5 THRESHOLDS. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH (13 MM) HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL 404.2.6 DOORS IN SERIES AND GATES IN SERIES. THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48 INCHES (1220 MM) MINIMUM PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE. **404.2.7 DOOR AND GATE HARDWARE.** HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES (865 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. 404.2.8 CLOSING SPEED. DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH 404.2.8.

SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM 404.2.8.2 SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM. 404.2.9 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:

404.2.8.1 DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS

1.INTERIOR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM 2.SLIDING OR FOLDING DOORS: 5 POUNDS (22.2 N) MAXIMUM. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION. 404.2.10 DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES (255 MM) OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH (1.6 MM) OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED. 404.3 AUTOMATIC AND POWER-ASSISTED DOORS AND GATES. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH 404.3. FULL-POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A156.10 (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1). LOW-ENERGY AND POWER-ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19 (1997 OR 2002 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1). 404.3.1 CLEAR WIDTH. DOORWAYS SHALL PROVIDE A CLEAR OPENING OF 32 INCHES (815 MM) MINIMUM IN POWER-ON AND POWER-OFF MODE. THE MINIMUM CLEAR WIDTH FOR AUTOMATIC

DOOR SYSTEMS IN A DOORWAY SHALL BE BASED ON THE CLEAR OPENING PROVIDED BY ALL LEAVES IN THE OPEN POSITION. 404.3.2 MANEUVERING CLEARANCE. CLEARANCES AT POWER-ASSISTED DOORS AND GATES SHALL COMPLY WITH 404.2.4. CLEARANCES AT AUTOMATIC DOORS AND GATES WITHOUT STANDBY POWER AND SERVING AN ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 404.3.3 THRESHOLDS. THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY 404.3.4 DOORS IN SERIES AND GATES IN SERIES. DOORS IN SERIES AND GATES IN SERIES

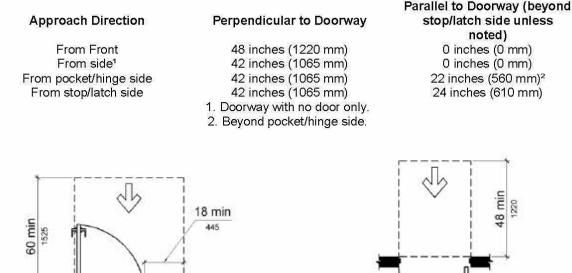
SHALL COMPLY WITH 404.2.6. 404.3.5 CONTROLS. MANUALLY OPERATED CONTROLS SHALL COMPLY WITH 309. THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING 404.3.6 BREAK OUT OPENING. WHERE DOORS AND GATES WITHOUT STANDBY POWER ARE A PART OF A MEANS OF EGRESS. THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32 INCHES (815 MM) MINIMUM WHEN OPERATED IN EMERGENCY 404.3.7 REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES. REVOLVING DOORS,

REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

Table 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates Minimum Maneuvering Clearance Parallel to Doorway Perpendicular to Approach Direction Door or Gate Side (beyond latch side unless noted) 18 inches (455 mm) 60 inches (1525 mm

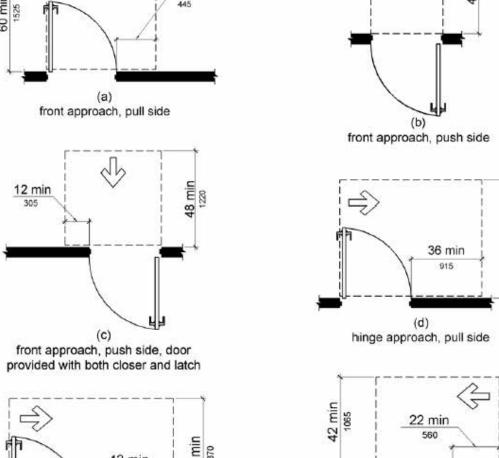
From front Push 48 inches (1220 mm 0 inches (0 mm)1 60 inches (1525 mm) 36 inches (915 mm) From hinge side Pull 42 inches (1065 mm) From hinge side 54 inches (1370 mm) Push 42 inches (1065 mm From hinge side 22 inches (560 mm) 48 inches (1220 mm)₄ From latch side 24 inches (610 mm) From latch side 42 inches (1065 mm)₄ 24 inches (610 mm) 1. Add 12 inches (305 mm) if closer and latch are provided 2. Add 6 inches (150 mm) if closer and latch are provided. Beyond hinge side.

Table 404.2.4.2 Maneuvering Clearances at Doorways without Doors or Gates, Manual Sliding Doors, and Manual Folding Doors Minimum Maneuvering Clearance



4. Add 6 inches (150 mm) if closer is provided.

hinge approach, pull side



hinge approach, push side

405 RAMPS

405.1 GENERAL. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 405 **405.2 SLOPE.** RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12. 405.3 CROSS SLOPE. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48 405.4 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH 302. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS. 405.5 CLEAR WIDTH. THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES (915 MM) 405.6 RISE. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES (760 MM) MAXIMUM. **405.7 LANDINGS**. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH

RAMP RUN. LANDINGS SHALL COMPLY WITH 405.7. 405.7.1 SLOPE. LANDINGS SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT 405.7.2 WIDTH. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING. 405.7.3 LENGTH. THE LANDING CLEAR LENGTH SHALL BE 60 INCHES (1525 MM) LONG 405.7.4 CHANGE IN DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES (1525 MM) MINIMUM BY 60 INCHES (1525 MM) MINIMUM. **405.7.5 DOORWAYS.** WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY 404.2.4 AND 404.3.2 SHALL BE

PERMITTED TO OVERLAP THE REQUIRED LANDING AREA. 405.8 HANDRAILS. RAMP RUNS WITH A RISE GREATER THAN 6 INCHES (150 MM) SHALL HAVE HANDRAILS COMPLYING WITH 505. 405.9 EDGE PROTECTION. EDGE PROTECTION COMPLYING WITH 405.9.1 OR 405.9.2 SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS. 405.9.1 EXTENDED FLOOR OR GROUND SURFACE. THE FLOOR OR GROUND SURFACE OF THE RAMP RUN OR LANDING SHALL EXTEND 12 INCHES (305 MM) MINIMUM BEYOND THE INSIDE FACE OF A HANDRAIL COMPLYING WITH 505. 405.9.2 CURB OR BARRIER. A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH

(100 MM) DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES (100 MM) OF THE FINISH FLOOR OR GROUND SURFACE. 405.10 WET CONDITIONS. LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

406 CURB RAMP

406.1 GENERAL. CURB RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 406, 405.2 THROUGH 405.5. AND 405.10. 406.2 COUNTER SLOPE. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL 406.3 SIDES OF CURB RAMPS. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10... 406.4 LANDINGS. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES (915 MM) MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE **406.5 LOCATION**. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. 406.6 DIAGONAL CURB RAMPS. DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES (1220 MM) MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES (1220 MM) MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES (610 MM) LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING. 406.7 ISLANDS. RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES (1220 MM) LONG MINIMUM BY 36 INCHES (915 MM) WIDE MINIMUM AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH (1220 MM) MINIMUM BY 36 INCH (915 MM) MINIMUM AREA SHALL BE ORIENTED SO THAT THE 48 INCH (1220 MM) MINIMUM LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH (1220 MM) MINIMUM BY 36 INCH (915 MM) MINIMUM AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.

407 ELEVATORS

407.1 GENERAL. ELEVATORS SHALL COMPLY WITH 407 AND WITH ASME A17.1 (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1). THEY SHALL BE PASSENGER ELEVATORS AS CLASSIFIED BY ASME A17.1. ELEVATOR OPERATION SHALL BE AUTOMATIC. 407.2 ELEVATOR LANDING REQUIREMENTS. ELEVATOR LANDINGS SHALL COMPLY WITH 407.2. 407.2.1 CALL CONTROLS. WHERE ELEVATOR CALL BUTTONS OR KEYPADS ARE PROVIDED. THEY SHALL COMPLY WITH 407.2.1 AND 309.4. CALL BUTTONS SHALL BE RAISED OR FLUSH.

407.2.1.1 HEIGHT. CALL BUTTONS AND KEYPADS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308, MEASURED TO THE CENTERLINE OF THE HIGHEST OPERABLE PART. 407.2.1.2 SIZE. CALL BUTTONS SHALL BE 3/4 INCH (19 MM) MINIMUM IN THE SMALLEST 407.2.1.3 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED AT CALL CONTROLS. 407.2.1.4 LOCATION. THE CALL BUTTON THAT DESIGNATES THE UP DIRECTION SHALL BE LOCATED ABOVE THE CALL BUTTON THAT DESIGNATES THE DOWN DIRECTION. 407.2.1.5 SIGNALS. CALL BUTTONS SHALL HAVE VISIBLE SIGNALS TO INDICATE WHEN EACH CALL IS REGISTERED AND WHEN EACH CALL IS ANSWERED **407.2.1.6 KEYPADS.** WHERE KEYPADS ARE PROVIDED, KEYPADS SHALL BE IN A STANDARD TELEPHONE KEYPAD ARRANGEMENT AND SHALL COMPLY WITH

407.2.2 HALL SIGNALS. HALL SIGNALS, INCLUDING IN-CAR SIGNALS, SHALL COMPLY WITH 407.2.2.1 VISIBLE AND AUDIBLE SIGNALS. A VISIBLE AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE TO INDICATE WHICH CAR IS ANSWERING A CALL AND THE CAR'S DIRECTION OF TRAVEL. WHERE IN-CAR SIGNALS ARE PROVIDED, THEY SHALL BE VISIBLE FROM THE FLOOR AREA ADJACENT TO THE HALL CALL **407.2.2.2 VISIBLE SIGNALS.** VISIBLE SIGNAL FIXTURES SHALL BE CENTERED AT 72 INCHES (1830 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND. THE VISIBLE SIGNAL ELEMENTS SHALL BE 2 1/2 INCHES (64 MM) MINIMUM MEASURED ALONG THE VERTICAL CENTERLINE OF THE ELEMENT. SIGNALS SHALL BE VISIBLE FROM THE FLOOR AREA ADJACENT TO THE HALL CALL BUTTON. 407.2.2.3 AUDIBLE SIGNALS. AUDIBLE SIGNALS SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION, OR SHALL HAVE VERBAL ANNUNCIATORS THAT INDICATE THE DIRECTION OF ELEVATOR CAR TRAVEL. AUDIBLE SIGNALS SHALL HAVE A FREQUENCY OF 1500 HZ MAXIMUM. VERBAL ANNUNCIATORS SHALL HAVE A FREQUENCY OF 300 HZ MINIMUM AND 3000 HZ MAXIMUM. THE AUDIBLE SIGNAL AND VERBAL ANNUNCIATOR SHALL BE 10 DB MINIMUM ABOVE AMBIENT, BUT SHALL NOT EXCEED 80 DB, MEASURED AT THE HALL CALL BUTTON.

407.2.2.4 DIFFERENTIATION. EACH DESTINATION-ORIENTED ELEVATOR IN A BANK OF ELEVATORS SHALL HAVE AUDIBLE AND VISIBLE MEANS FOR DIFFERENTIATION. 407.2.3 HOISTWAY SIGNS. SIGNS AT ELEVATOR HOISTWAYS SHALL COMPLY WITH 407.2.3. 407.2.3.1 FLOOR DESIGNATION. FLOOR DESIGNATIONS COMPLYING WITH 703.2 AND 703.4.1 SHALL BE PROVIDED ON BOTH JAMBS OF ELEVATOR HOISTWAY ENTRANCES. FLOOR DESIGNATIONS SHALL BE PROVIDED IN BOTH TACTILE CHARACTERS AND BRAILLE. TACTILE CHARACTERS SHALL BE 2 INCHES (51 MM) HIGH MINIMUM. A TACTILE STAR SHALL BE PROVIDED ON BOTH JAMBS AT THE MAIN ENTRY LEVEL. 407.2.3.2 CAR DESIGNATIONS. DESTINATION-ORIENTED ELEVATORS SHALL PROVIDE TACTILE CAR IDENTIFICATION COMPLYING WITH 703.2 ON BOTH JAMBS OF THE HOISTWAY IMMEDIATELY BELOW THE FLOOR DESIGNATION. CAR DESIGNATIONS SHALL BE PROVIDED IN BOTH TACTILE CHARACTERS AND BRAILLE. TACTILE CHARACTERS SHALL BE 2 INCHES (51 MM) HIGH MINIMUM.

407.3 ELEVATOR DOOR REQUIREMENTS. HOISTWAY AND CAR DOORS SHALL COMPLY WITH 407.3.1 TYPE. ELEVATOR DOORS SHALL BE THE HORIZONTAL SLIDING TYPE. CAR GATES SHALL BE PROHIBITED. 407.3.2 OPERATION. ELEVATOR HOISTWAY AND CAR DOORS SHALL OPEN AND CLOSE 407.3.3 REOPENING DEVICE. ELEVATOR DOORS SHALL BE PROVIDED WITH A REOPENING DEVICE COMPLYING WITH 407.3.3 THAT SHALL STOP AND REOPEN A CAR DOOR AND HOISTWAY DOOR AUTOMATICALLY IF THE DOOR BECOMES OBSTRUCTED BY AN OBJECT OR PERSON.

407.3.3.1 HEIGHT. THE DEVICE SHALL BE ACTIVATED BY SENSING AN OBSTRUCTION PASSING THROUGH THE OPENING AT 5 INCHES (125 MM) NOMINAL AND 29 INCHES (735 MM) NOMINAL ABOVE THE FINISH FLOOR. 407.3.3.2 CONTACT. THE DEVICE SHALL NOT REQUIRE PHYSICAL CONTACT TO BE ACTIVATED, ALTHOUGH CONTACT IS PERMITTED TO OCCUR BEFORE THE

407.3.3.3 DURATION. DOOR REOPENING DEVICES SHALL REMAIN EFFECTIVE FOR 20 SECONDS MINIMUM. 407.3.4 DOOR AND SIGNAL TIMING. THE MINIMUM ACCEPTABLE TIME FROM NOTIFICATION THAT A CAR IS ANSWERING A CALL OR NOTIFICATION OF THE CAR ASSIGNED AT THE MEANS FOR THE ENTRY OF DESTINATION INFORMATION UNTIL THE DOORS OF THAT CAR START TO CLOSE SHALL BE CALCULATED FROM THE FOLLOWING EQUATION: T = D/(1.5 FT/S) OR T = D/(455 MM/S) = 5 SECONDS MINIMUM WHERE T EQUALS THE TOTAL TIME IN SECONDS AND D EQUALS THE DISTANCE (IN FEET OR MILLIMETERS) FROM THE POINT IN THE LOBBY OR CORRIDOR 60 INCHES (1525 MM) DIRECTLY IN FRONT OF THE FARTHEST CALL BUTTON CONTROLLING THAT CAR TO THE CENTERLINE OF ITS HOISTWAY DOOR. 407.3.5 DOOR DELAY. ELEVATOR DOORS SHALL REMAIN FULLY OPEN IN RESPONSE TO A CAR CALL FOR 3 SECONDS MINIMUM. 407.3.6 WIDTH. THE WIDTH OF ELEVATOR DOORS SHALL COMPLY WITH TABLE

407.4 ELEVATOR CAR REQUIREMENTS. ELEVATOR CARS SHALL COMPLY WITH 407.4. 407.4.1 CAR DIMENSIONS. INSIDE DIMENSIONS OF ELEVATOR CARS AND CLEAR WIDTH OF ELEVATOR DOORS SHALL COMPLY WITH TABLE 407.4.1. **407.4.2 FLOOR SURFACES.** FLOOR SURFACES IN ELEVATOR CARS SHALL COMPLY WITH 302

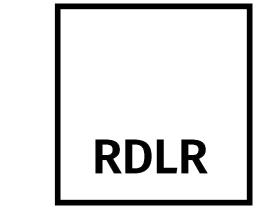
407.4.3 PLATFORM TO HOISTWAY CLEARANCE. THE CLEARANCE BETWEEN THE CAR

PLATFORM SILL AND THE EDGE OF ANY HOISTWAY LANDING SHALL BE 1 1/4 INCH (32 MM) 407.4.4 LEVELING. EACH CAR SHALL BE EQUIPPED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING AND MAINTAIN THE CAR AT FLOOR LANDINGS WITHIN A TOLERANCE OF 1/2 INCH (13 MM) UNDER RATED LOADING TO ZERO LOADING CONDITIONS.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

HUMBLE, TX 77396 IAH INTEGRATED COORDINATION

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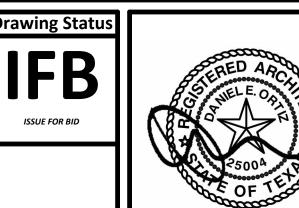


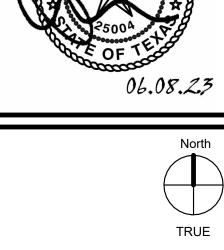
DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 ISSUE FOR BID 06/08/2023

DENISE YE DESIGN BY: DENISE YE DRAWN BY: DANIEL ORTIZ **CHECKED BY:** 06/08/2023 **ISSUE DATE:** DANIEL ORTIZ **APPROVED BY:**

> DIRECTOR HOUSTON AIRPORT SYSTEM

APPROVAL DATE:





06/08/2023

TEXAS ACCESSIBILITY GUIDELINES - 1 OF

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 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.

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. 407.4.6.4 EMERGENCY CONTROLS. EMERGENCY CONTROLS SHALL COMPLY

407.4.6.2.1 SIZE. BUTTONS SHALL BE 3/4 INCH (19 MM) MINIMUM IN THEIR

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

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

AND IN OTHER ASPECTS COMPLY WITH TABLE 703.3.1.

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

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 AUDIBLE INDICATORS. AUDIBLE INDICATORS SHALL COMPLY WITH

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

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 INCHES (2490 MM) MINIMUM.

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

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 ARE NOT PERMITTED **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 DIMENSION OF 2 1/4 INCHES (57 MM) MAXIMUM.505.7 CROSS SECTION. HANDRAIL 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 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 DIMENSION OF 2 1/4 INCHES (57 MM) MAXIMUM.

505.8 SURFACES. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES. 505.9 FITTINGS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

505.10 HANDRAIL EXTENSIONS. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH 505.10. 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 ADJACENT RAMP RUN 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 HANDRAIL OF AN ADJACENT STAIR FLIGHT. 505.10.3 BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, 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

BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT. **602 DRINKING FOUNTAINS**

602.1 GENERAL. DRINKING FOUNTAINS SHALL COMPLY WITH 307 AND 602. **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 THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED. **602.3 OPERABLE PARTS.** OPERABLE PARTS SHALL COMPLY WITH 309. **602.4 SPOUT HEIGHT.** SPOUT OUTLETS SHALL BE 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. **602.5 SPOUT LOCATION.** THE SPOUT SHALL BE LOCATED 15 INCHES (380 MM) MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS. **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 OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED 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 THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES (75 MM) AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM. 602.7 DRINKING FOUNTAINS FOR STANDING PERSONS. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES (965 MM) MINIMUM AND 43 INCHES (1090 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603 TOILET & BATHING ROOMS 603.1 GENERAL. TOILET AND BATHING ROOMS SHALL COMPLY WITH 603. **603.2 CLEARANCES.** CLEARANCES SHALL COMPLY WITH 603.2. **603.2.1 TURNING SPACE.** TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED WITHIN THE ROOM. 603.2.2 OVERLAP. REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP. **603.2.3 DOOR SWING**. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE. 603.3 MIRRORS. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES (1015 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES (890 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. 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 WATER CLOSETS AND TOILET COMPARTMENTS

604.1 GENERAL. WATER CLOSETS AND TOILET COMPARTMENTS SHALL COMPLY WITH **604.2 LOCATION.** THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES (405 MM) MINIMUM TO 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. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH. **604.3 CLEARANCE.** CLEARANCES AROUND WATER CLOSETS AND IN TOILET

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

COMPARTMENTS SHALL COMPLY WITH 604.3. **604.3.1 SIZE.** CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES (1525 MM) MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES (1420 MM) MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL.

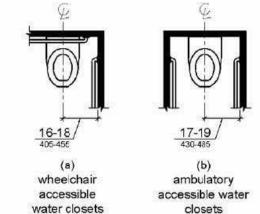
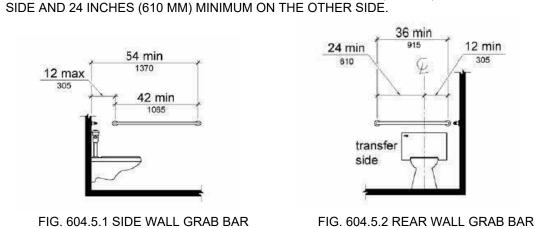




FIG. 604.3.1 SIZE OF CLEARANCE AT WATER CLOSETS

604.3.2 OVERLAP. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE 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 TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE. 604.4 SEATS. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. 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 ON THE REAR WALL 604.5.1 SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42 INCHES (1065 MM) LONG MINIMUM, LOCATED 12 INCHES (305 MM) MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES (1370 MM) MINIMUM FROM THE REAR WALL. 604.5.2 REAR WALL. THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915 MM) LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305 MM) MINIMUM ON ONE

AT WATER CLOSETS



AT WATER CLOSETS

604.7 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 15 INCHES (380 MM) MINIMUM AND 48 INCHES (1220 MM) 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 ALLOW CONTINUOUS PAPER FLOW.

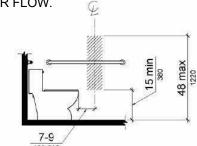


FIG. 604.7 DISPENSER OUTLET LOCATION

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.

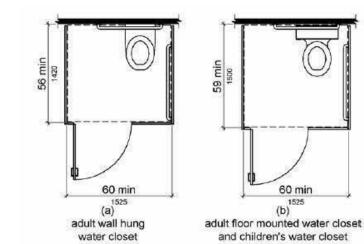


FIG. 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT



FIG. 604.8.1.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

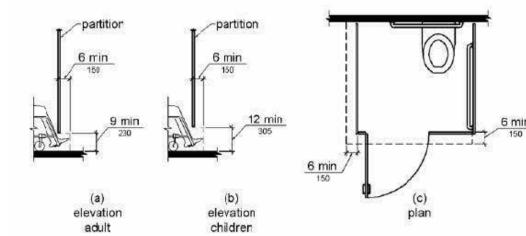


FIG. 604.8.1.4 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
Water Closet Centerline	12 inches (305 mm)	12 to 15 inches (305 to 380 mm)	15 to 18 inches (380 to 455 mm)
Toilet Seat Height	11 to 12 inches (280 to 305 mm)	12 to 15 inches (305 to 380 mm)	15 to 17 inches (380 to 430 mm)
Grab Bar Height	18 to 20 inches (455 to 510 mm)	20 to 25 inches (510 to 635 mm)	25 to 27 inches (635 to 685 mm)
Dispenser Height	14 inches (355 mm)	14 to 17 inches (355 to 430 mm)	17 to 19 inches (430 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 COMPARTMENT 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.

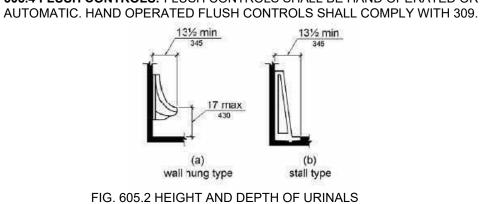
604.9.2 CLEARANCE. CLEARANCE AROUND A WATER CLOSET SHALL COMPLY WITH

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

605.2 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

605.1 GENERAL. URINALS SHALL COMPLY WITH 605.



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 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 (120 609.3 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).

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

CHARACTER.

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 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 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 LIPPERCASE 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 "I" SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE 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 WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND. 703.7.2 SYMBOLS.

703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE INTERNATIONAL SYMBOL OF



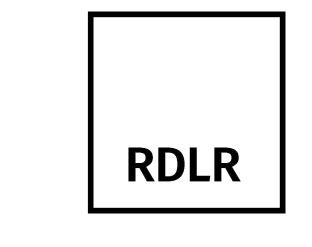
ACCESSIBILITY SHALL COMPLY WITH FIGURE 703.7.2.1.

FIG. 703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, **HUMBLE, TX 77396**

CENTER **N/Δ** |D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

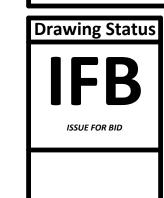
IAH INTEGRATED COORDINATION



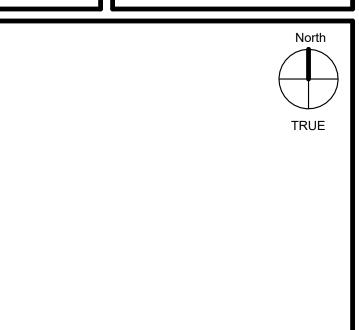
DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 ISSUE FOR BID 06/08/2023

> **DENISE YE DESIGN BY: DENISE YE DRAWN BY:** DANIEL ORTIZ **CHECKED BY:** 06/08/2023 DANIEL ORTIZ **APPROVED BY:** 06/08/2023 APPROVAL DATE:

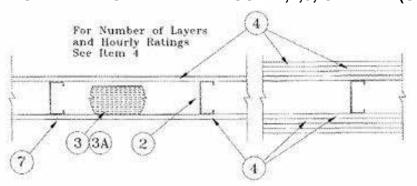
DIRECTOR HOUSTON AIRPORT SYSTEM







TEXAS ACCESSIBILITY GUIDELINES - 2 OF 2



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.

a. 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.

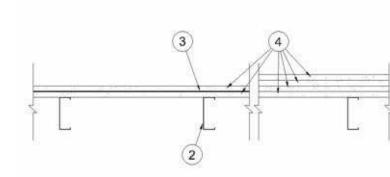
Steel Framing Members (Optional, Not Shown)* -- As an alternate to Item 6, furring channels and Steel Framing Members on only one side of studs as

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

DESIGN NO. V497



around the partition perimeter for sound control.

UNITED STATES GYPSUM CO -- Type AS

*Bearing the UL Classification Mark

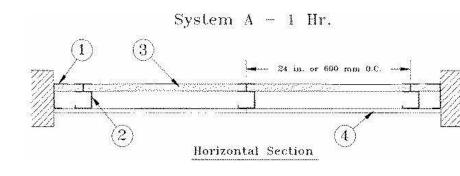
corrosion-protected steel, min width to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min 3-5/8 in. wide, min 1-1/4 in. flanges, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in.

Laminating Compound — For use with Item 4 -- Use to bond outer layer wallboard to inner layer wallboard. Powder type mixed with water in accordance with instructions shown on bags. Applied to entire surface of base layer wallboard. Applied with notched trowel producing continuous beads about 1/4 in. wide and 1/4 in. high. 1 HR Rating -- Applied to one side of steel studs (Item 2). Two layers of 5/8 in. gypsum panels

over studs. Base layer applied with 1 in. Type S screws spaced 24 in. oc. Face layer applied vertically with joints centered over studs and offset from base layer joints by one stud cavity. Face layer applied with 1-5/8 in. Type S screws spaced 12 in. oc starting with a 6 in. offset from the bottom of the gypsum panel. NATIONAL GYPSUM CO --- 5/8 in. thick Type eXP-C, FSL, FSW, FSK, FSW-3, FSW-5, FSW-G, FSK-G, FSW-6, FSW-C, FSMR-C, FSK-C, Type SBWB

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

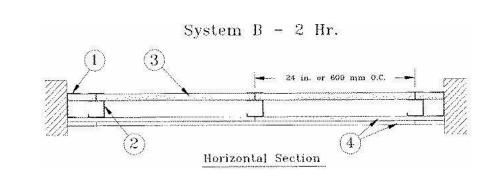
Furring Channels - (Optional, not shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud 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

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

Furring Channels - For use with System I - "Hat" - shaped, 25 MSG galv steel furring

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

*Bearing the UL Classification Mark

Gvpsum Board* - Svstem 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 ĂR, 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 AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX USG MEXICO S A DE C V - Type SLX

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

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

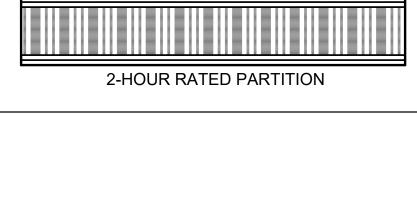
PARTITION TYPE NOTES

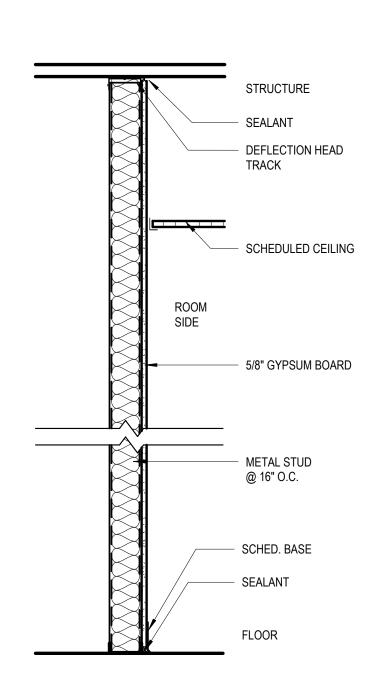
FACES RECEIVING REVEALS.

- PARTITION TYPES SCHEDULE DEFINES ASSEMBLY TYPES AND VARIATIONS WITHIN EACH TYPE REFER TO FLOOR PLANS TO DETERMINE THE LOCATION FOR EACH
- ALL GYPSUM WALLBOARD (INCLUDING CEILINGS) TO BE INSTALLED IN WET OR DAMP AREAS SUCH AS TOILETS, KITCHENS, JANITOR CLOSETS, MECHANICAL ROOMS, UNCONDITIONED SPACES, BELOW GRADE AREAS, OR ANY OTHER AREAS SUSCEPTIBLE TO MOISTURE OR DAMPNESS SHALL BE WATER RESISTANT TYPE.
- ALL WALLBOARD INSTALLED WHERE TILE FINISH IS SCHEDULED SHALL BE 5/8" CEMENT BACKER BOARD U.N.O.
- USE DEEP LEG DEFLECTION TRACK @ THE TOP OF ALL PARTITIONS SECURED TO
- UNDERSIDE OF STRUCTURE. AT FIRE RATED WALLS APPLY AN ADDITIONAL LAYER OF WALLBOARD ON ANY
- PROVIDE ADDITIONAL METAL FRAMING AS REQUIRED TO SUPPORT GYPSUM BOARD FINISHES. IF NO SUPPORT IS INDICATED PROVIDE FRAMING ASSEMBLY THAT COMPLIES WITH MIN. DESIGN LOAD OF L/420 & 10 PSF AND 5PSF LOADING, TYPICAL FOR MECHANICAL PLENUMS AND ELEVATOR SHAFTS.
- LIMITING HEIGHTS ARE CONTRACTOR'S RESPONISIBILITY. TO BE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LIMITING WALL HEIGHT TABLES. ALL PARTITIONS SHALL BE BRACED AS REQUIRED TO MEET MINIMUM DEFLECTION
- ALL METAL STUDS EXTEND TO STRUCTURE U.N.O. BY TYPE DESIGNATION OR SPECIFIC DETAIL.
- ALIGN EXTERIOR CORNERS AND JOINTS IN FINISHED AREAS, TYP.
- PROVIDE CONTINUOUS CAULKING AT ALL DUCT AND PIPE PENETRATIONS THROUGH WALLS IN ACCORDANCE WITH SPECIFICATIONS.
- 11. AT CHASE WALLS PROVIDE HORIZONTAL BRACING FOR SEPARATIONS LESS THAN 9" WITH MIN. 4 1/4" METAL BRACE. AT SEPARATIONS GREATER THAN 9" PROVIDE 12" WIDE GYPSUM WALL BOARD BRACE. ALL BRACES AT 32" O.C. MIN.
- DIMENSION PLANS SHALL INDICATE PARTITION CLEAR DIMENSIONS FROM FACE OF WALLBOARD TO FACE OF WALLBOARD UNLESS NOTED OTHERWISE.

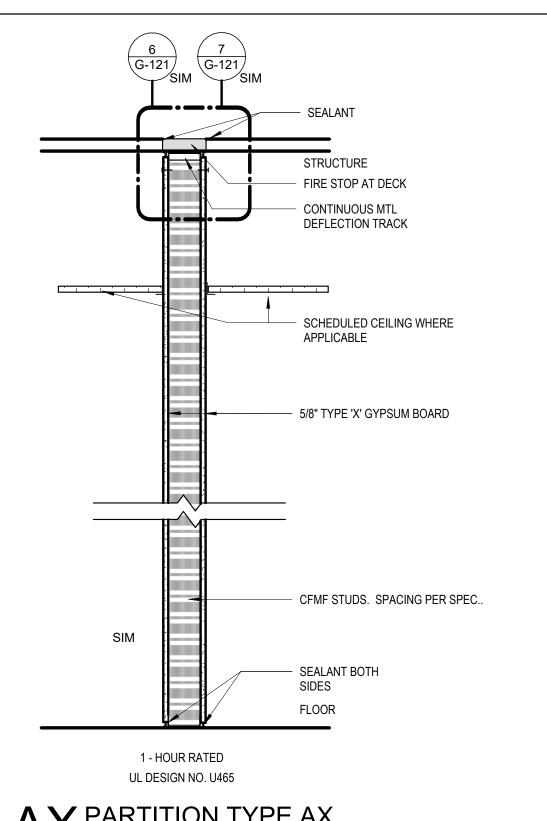
FIRE RATING GRAPHIC SYMBOL





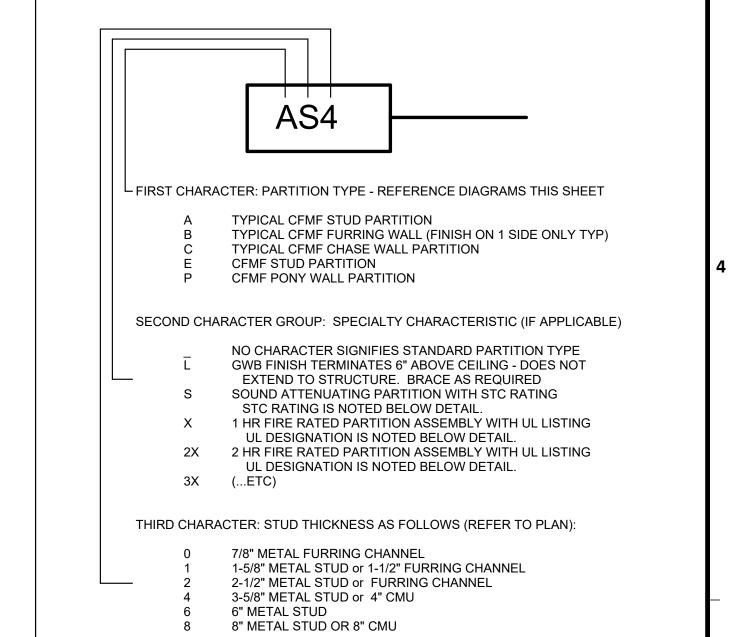


B PARTITION TYPE B - SINGLE SIDED SCALE: 1" = 1'-0"

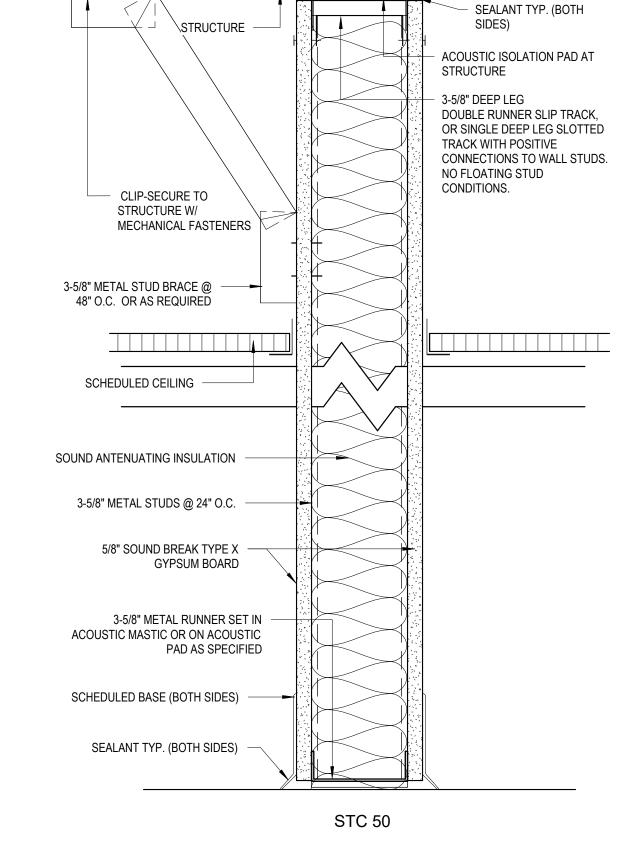


DEEP LEG DEFLECTION TRACK AT STRUCTURE. - SCHEDULED CEILING INSULATION (IF SCHEDULED) - 5/8" GYPSUM BOARD CFMF STUDS. SPACING PER SPEC. SCHEDULED BASE - SEALANT BOTH SIDES FLOOR FINISH

PARTITION TYPE KEY CODE



GRAPHIC EXAMPLE: PARTITION TYPE AS4

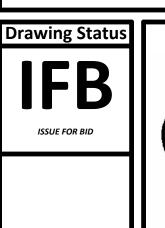


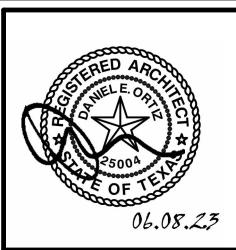
DESIGNER PROJECT No.: 1429.13 **ROJECT STATUS: REVISIONS**

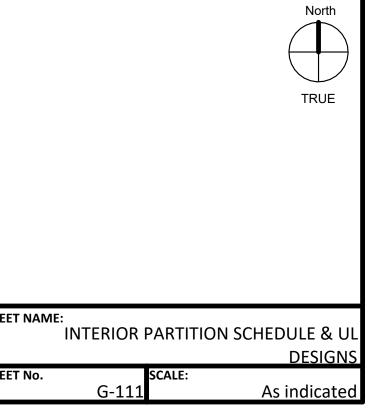
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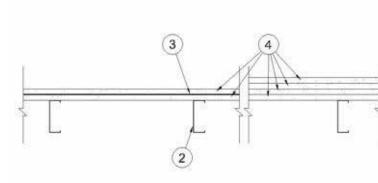
> DIRECTOR HOUSTON AIRPORT SYSTEM







DESIGN NO. V97



Floor and Ceiling Runners — (Not Shown) --- Channel shaped, fabricated from min 25 MSG

with beveled, square or tapered edges. Gypsum panels applied vertically with joints centered

Joint Tape and Compound --- (Not Shown) --- Joints covered with joint compound and paper tape. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer

PARTITION TYPE P
SCALE: 1" = 1'-0"

SIM

1 - HOUR RATED

UL DESIGN NO. V497

EX PARTITION TYPE EX

FLOOR

1 HOUR RATED

UL DESIGN NO. U415

CX PARTITION TYPE CX
SCALE: 1" = 1'-0"

FINISH AS SCHEDULED

CONT. METAL

RUNNER CHANNEL

STRUCTURAL STEEL

METAL STUD

@ 16" O.C.

RUNNER CHANNEL

SCHED. BASE TYP.

FIRE STOP AT DECK

DEFLECTION TRACK

SCHEDULED CEILING WHERE

TWO LAYERS 5/8" TYPE 'X'

EXISTING 5/8" GYPSUM BOARD

EXISTING CFMF STUDS

- SEALANT

SEALANT

STRUCTURE

FIRE STOP SYSTEM

CONTINUOUS MTL

SCHED. CEILING

5/8" TYPE "X"

GYPSUM BOARD

1" SHAFT LINER PANEL

- CH METAL STUD

SCHED. BASE

CONTINUOUS J

SEALANT

RUNNER

WHERE APPLICABLE

DEFLECTION TRACK

CONTINUOUS MTL

APPLICABLE

GYPSUM BOARD

CONT. METAL

SUPPORT IF SCHEDULED

PARTITION TYPE AX

SCALE: 1" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

DENISE YE DENISE YEI DANIEL ORTIZ 06/08/2023 DANIEL ORTIZ 06/08/2023 **APPROVAL DATE:**



GENERAL SERVICES FACILITY

4551 WILL CLAYTON PKWY,

HUMBLE, TX 77396

IAH INTEGRATED COORDINATION

CENTER

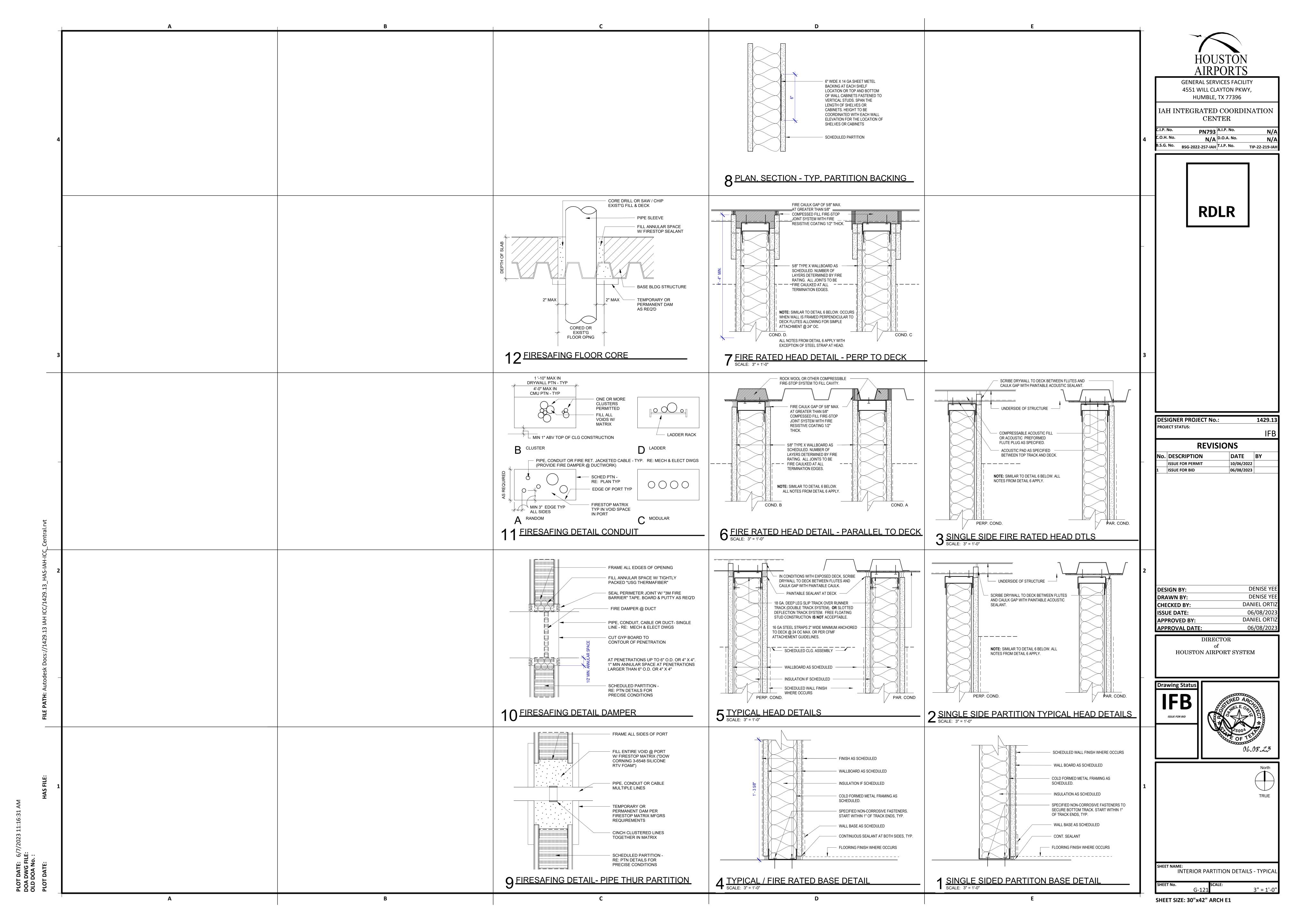
PN793 A.I.P. No.

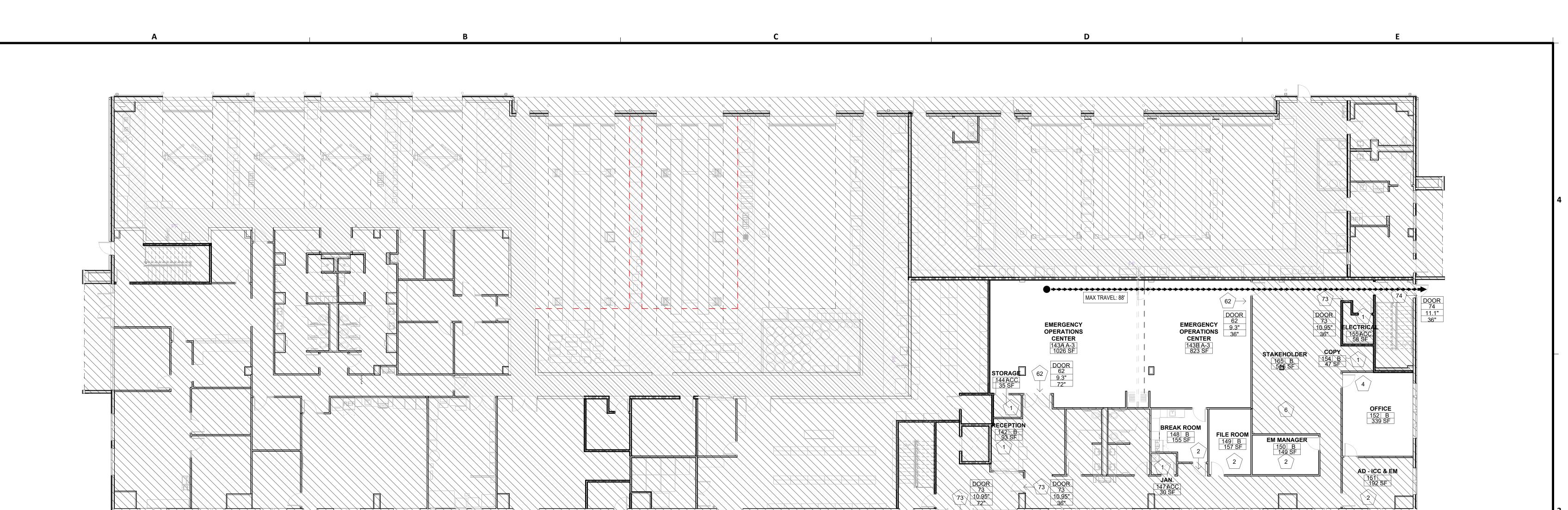
RDLR

BSG-2022-257-IAH T.I.P. No.

N/A D.O.A. No.

TIP-22-219-IAH





A3 LEVEL 1 LIFE/SAFETY
SCALE: 3/32" = 1'-0"

SCOPE SUMMARY

THE AOC & EOC ARE RELOCATING TO THE GSF FROM THE TERMINAL. THE FOLLOWING PROVIDES A SCOPE SUMMARY OF THE PROPOSED RENOVATIONS & IMPROVEMENTS.

THE PROPOSED RELOCATION OF THESE SPACES REQUIRES SIGNIFICANT UPGRADES TO IT/AV/SECURITY AND ELECTRICAL UPS SYTEMS TO BE MADE. ARCHITECTURAL AND MEP SYSTEM DESIGN SCOPE FOCUSES ON SUPPORTING THESE TECHNOLOGY NEEDS.

THE EOC WILL BE LOCATED AT THE GROUND FLOOR. STRUCTURAL CHANGES (RELOCATION OF INTERIOR PARTITIONS) TO THE SPACE ARE NOT NEEDED. THE LARGE EXISTING MEETING ROOM (HAS MOVEABLE PARTITION) WILL BE USED AS A TRAINING FACILITY (WEST) AND CONFERENCE (EAST). IT/AV/ UPGRADES WILL INCLUDE VIDEO WALLS (8 MONITORS) AT EACH OF THE SPACES. AN EXISTING HUDDLE ROOM LOCATED TO THE SOUTH WILL BE REPURPOSED AS A BREAKROOM. MILLWORK & STANDARD BREAKROOM EQUIPMENT & SINK

THE AOC, RENAMED ICC (INTEGRATED CONTROL CENTER), WILL BE LOCATED ON THE SECOND FLOOR. THE 24/7 NATURE OF THE SPACE REQUIRED THE ADDITION OF SHOWERS. TRANSFORMATION OF THE LARGE OPEN WORKSPACE TO THE ICC CONSOLE / CONTROL SPACE INVOLVED CHANGES TO THE EXISTING LIGHT FIXTURES (TO ELIMINATE GLARE), ADDITION OF POWER / DATA FLOOR BOXES, RELOCATION / ADJUSTMENT OF A SMALL PERCENTAGE OF ABOVE CEILING HVAC / FIRE SUPPRESSION SYSTEMS, AS WELL AS THE ADDITION OF A PARTITION OFFSET FROM THE SOUTH WALL, MEANT TO SEAL THE SPACE FROM DAYLIGHT. 3 GROUPINGS OF 8 MONITORS EACH ARE LOCATED ALONG THIS NEW

AN ENCLOSED SPACE FOR TSA IS PARTITIONED OFF IN A PREVIOUSLY EMPTY CORNER OF THE SPACE. THIS SPACE WILL HOUSE 6 CONSOLES (2 ROWS OF 3) WITH A VIDEO WALL CONSISTING OF 8 MONITORS LOCATED ON THE EAST WALL.

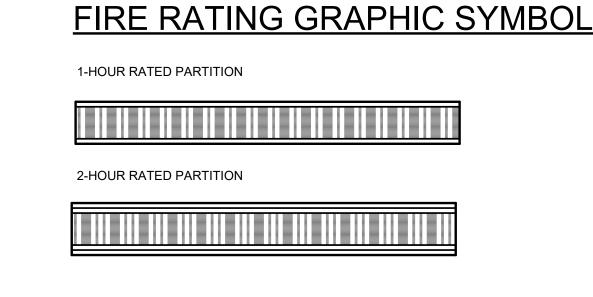
A UPS SYSTEM WILL BE PROVIDED TO SUPPORT THE ICC & EOC ACTIVITIES.

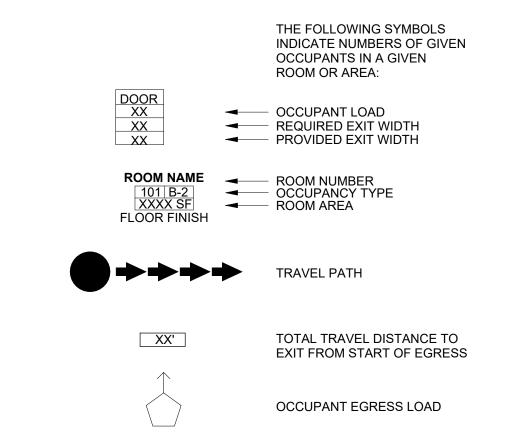
APPLICABLE BUILDING CODES

PARTITION. 24 CONSOLES WILL BE ACCOMODATED IN THIS LARGE OPEN SPACE.

IT AND TELECOMMUNICATIONS INFRASTRUCTURE TO SUPPORT ALL ICC IT COMPONENTS SUCH AS COMPUTER WORKSTATIONS, DESKTOPS PCS, TELEPHONY, AV EQUIPMENT AND SYSTEMS, ACCESS.

EXITIN	EXITING OCCUPANCY LOAD CALCULATOR					
NUMBER	NAME	OCCUPANCY	AREA	O.L.F	OCCUPANT COUNT	
NOMBER	TV WIL	00001711101	7 (1 () / ()	U.L.I	000141	
142	RECEPTION	В	93	100 SF	1	
143A	EMERGENCY OPERATIONS CENTER	A-3	1026	15 SF	69	
143B	EMERGENCY OPERATIONS CENTER	A-3	823	15 SF	55	
144	STORAGE	ACC.	35	300 SF	1	
147	JAN.	ACC.	30	300 SF	1	
148	BREAK ROOM	В	155	100 SF	2	
149	FILE ROOM	В	157	100 SF	2	
150	EM MANAGER	В	149	100 SF	2	
151	AD - ICC & EM		192		0	
152	OFFICE	В	339	100 SF	4	
154	COPY	В	47	100 SF	1	
155	ELECTRICAL	ACC.	58	300 SF	1	
165	STAKEHOLDER	В	516	100 SF	6	

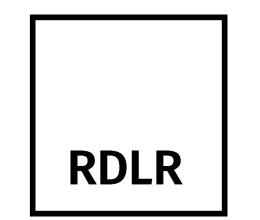




GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, **HUMBLE, TX 77396**

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B.S.G. No. BSG-2022-257-IAH T.I.P. No.



N/A D.O.A. No.

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06/08/2023

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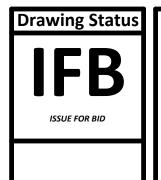
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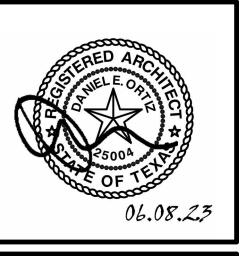
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ISSUE FOR BID

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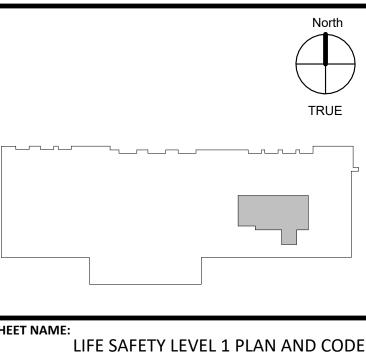
DIRECTOR HOUSTON AIRPORT SYSTEM





SUMMARY

As indicated



PROJECT DESCRIPTION

2015 HOUSTON COMMERICAL ENERGY CONSERVATION CODE

CITY OF HOUSTON BUILDING CODE AMENDMENTS

STATE OF TEXAS ACCESSIBILITY STANDARDS

EXISTING 48,084 GSF 2-STORY RIGID METAL FRAMED STRUCTURE, TYPE IIB. BUILDING CONSISTS OF AIRPORT GENERAL SERVICES, INCLUDING VEHICLE MAINTENACE; FULLY SPRINKLERED. OCCUPANCY CLASSIFICATIONS GROUP B, BUSINESS, AND GROUP F-1, MAINTENANCE.

THE SCOPE OF WORK INCLUDES 9,296 GSF OF TENANT IMPROVEMENTS.

BUILDING CODE SUMMARY

OCCUPANCY CLASSIFICATION GROUP B (EXISTING): GROUP F-1 (EXISTING): MAINTENANCE ASSEMBLY (ACCESSORY) GROUP A-3 (EXISTING):

NO CHANGE TO BUILDING OCCUPANCY.

SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY NO SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY

ALLOWABLE HEIGHT AND BUILDING AREA - CONSTRUCTION TYPE IIB NO CHANGES TO BUILDING HEIGHT OR AREA

ACCESSORY OCCUPANCIES

Grand total: 13

ACCESSORY OCCUPANCIES NOT MORE THAN 10% OF THE FLOOR AREA OF THE STORY IN WHICH THEY ARE LOCATED ARE

NOT REQUIRED TO BE SEAPARATED.

NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. CODE REQUIREMENTS SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY

CLASSIFICATION OF THAT SPACE EXCEPT THAT THE MOST RESTRICTIVE APPLICABLE PROVISIONS OF SECTION 403 AND CHAPTER 9 SHALL APPLY TO THE ENTIRE BUILDING OR PORTION THEREOF.

OCCUPANCY SEPARATIONS

TABLE 508.4 NO SEPARATION REQUIRED BETWEEN OCCUPANCIES B & F-1

CONSTRUCTION REQUIREMENTS

TO PROPERTY LINE.

CONSTRUCTION TYPE: TYPE IIB, FULLY SPRINKLERED TABLE 509 STATIONARY STORAGE BATTERY SYSTEMS FOR UNITERRUPTABLE POWER

SUPPLY REQUIRES 1 HR RATING IN GROUP B OCCUPANCIES TABLE 601 FIRE RESISTIVE REQUIREMENTS FOR BUILDING ELEMENTS

> STRUCTURAL FRAME BEARING WALLS 0-HOUR NONBEARING WALLS 0-HOUR FLOOR CONSTRUCTION 0-HOUR

ROOF CONSTRUCTION 0-HOUR FIRE RESISTIVE REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE - NOT APPLICABLE DUE TO DISTANCE OF BUILDING FIRE PROTECTION FEATURES

TABLE 721.1(3) 3.5 INCHES THICK CONCRETE FLOOR SLAB PROVIDES A MINIMUM OF 1 HOUR OF FIRE PROTECTION

INTERIOR FINISHES

TABLE 803.11 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

MEANS OF EGRESS

TABLE 1004.1 DESIGN OCCUPANT LOAD REFER TO EXITING OCCUPANCY LOAD CALCULATOR

TABLE 1005.1 EGRESS WIDTH PER OCCUPANT SERVED

OTHER COMPONENTS STAIRWAYS

0.15 / OCCUPANT X [TOTAL OCCUPANT LOAD] = XX"

2015 INTERNATIONAL BUILDING CODE

2015 INTERNATIONAL FIRE CODE

2015 UNIFORM PLUMBING CODE

CITY OF HOUSTON SIGN CODE

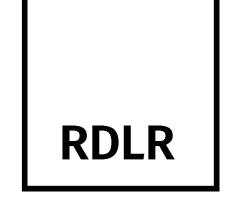
2015 UNIFORM MECHANICAL CODE

2020 NATIONAL ELECTRICAL CODE

HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No.



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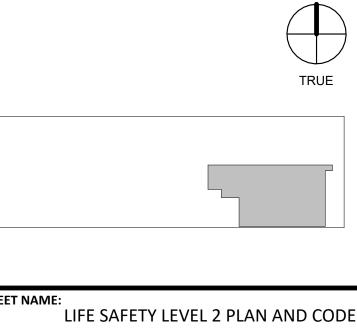
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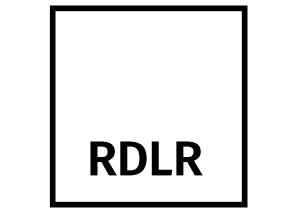
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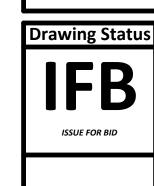
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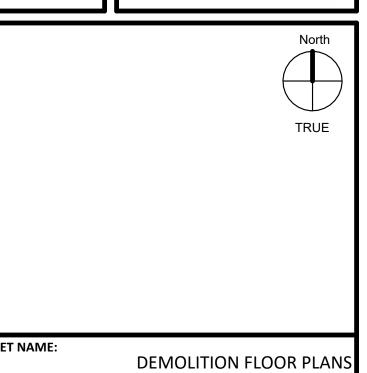
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of HOUSTON AIRPORT SYSTEM







GENERAL SERVICES FACILITY

4551 WILL CLAYTON PKWY, HUMBLE, TX 77396 IAH INTEGRATED COORDINATION

CENTER PN793 A.I.P. No. N/A D.O.A. No.

B.S.G. No. BSG-2022-257-IAH T.I.P. No.

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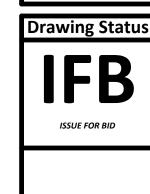
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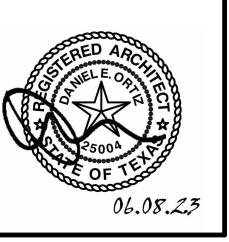
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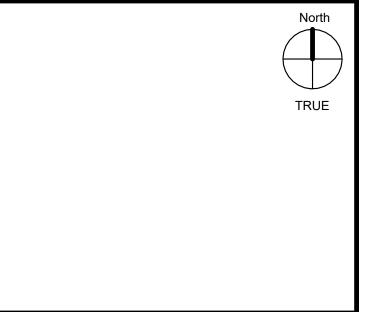
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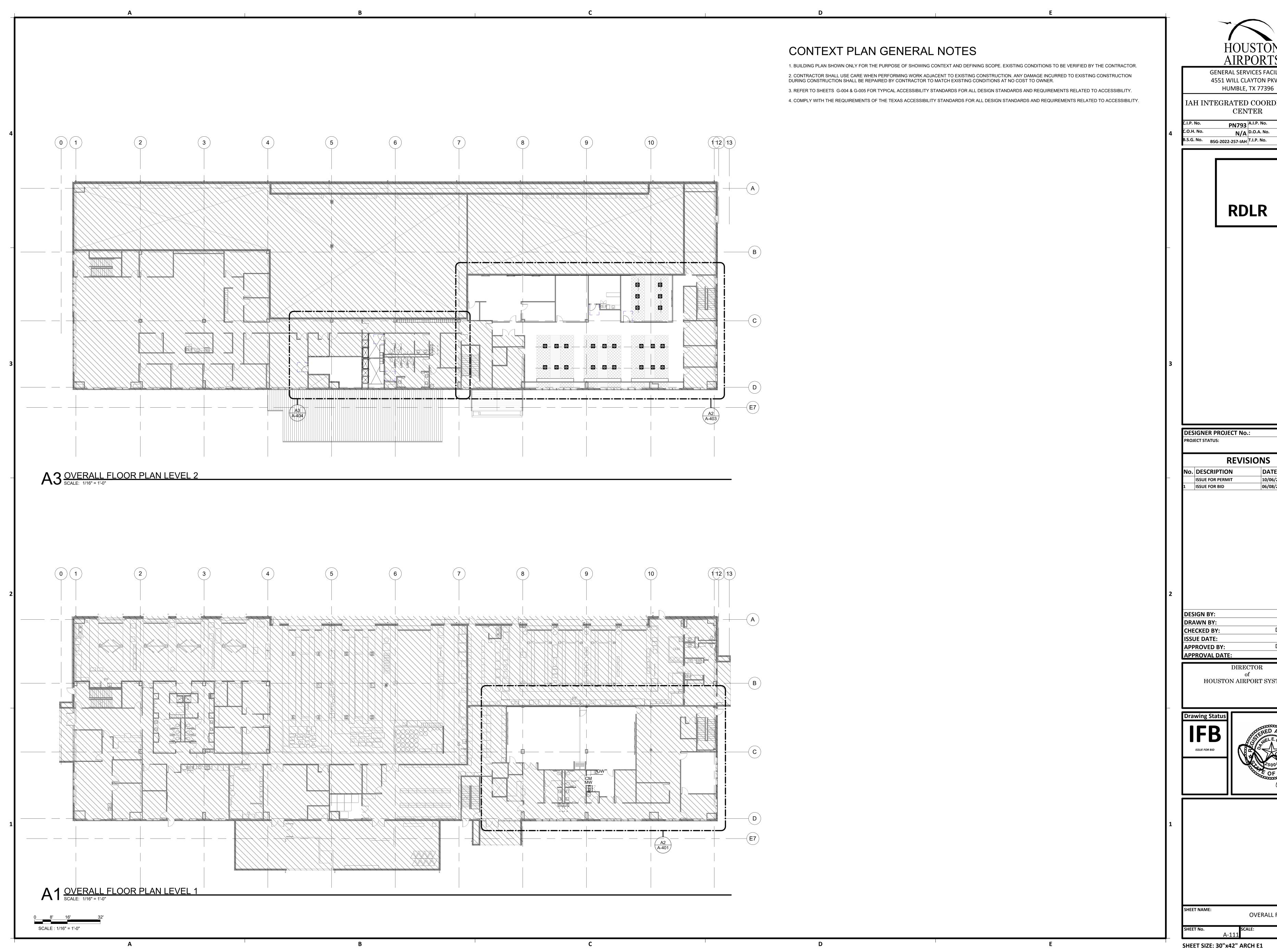






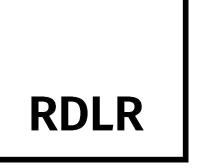
DEMOLITION REFLECTED CEILING PLAN

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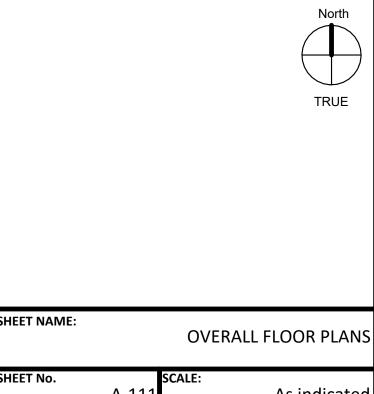


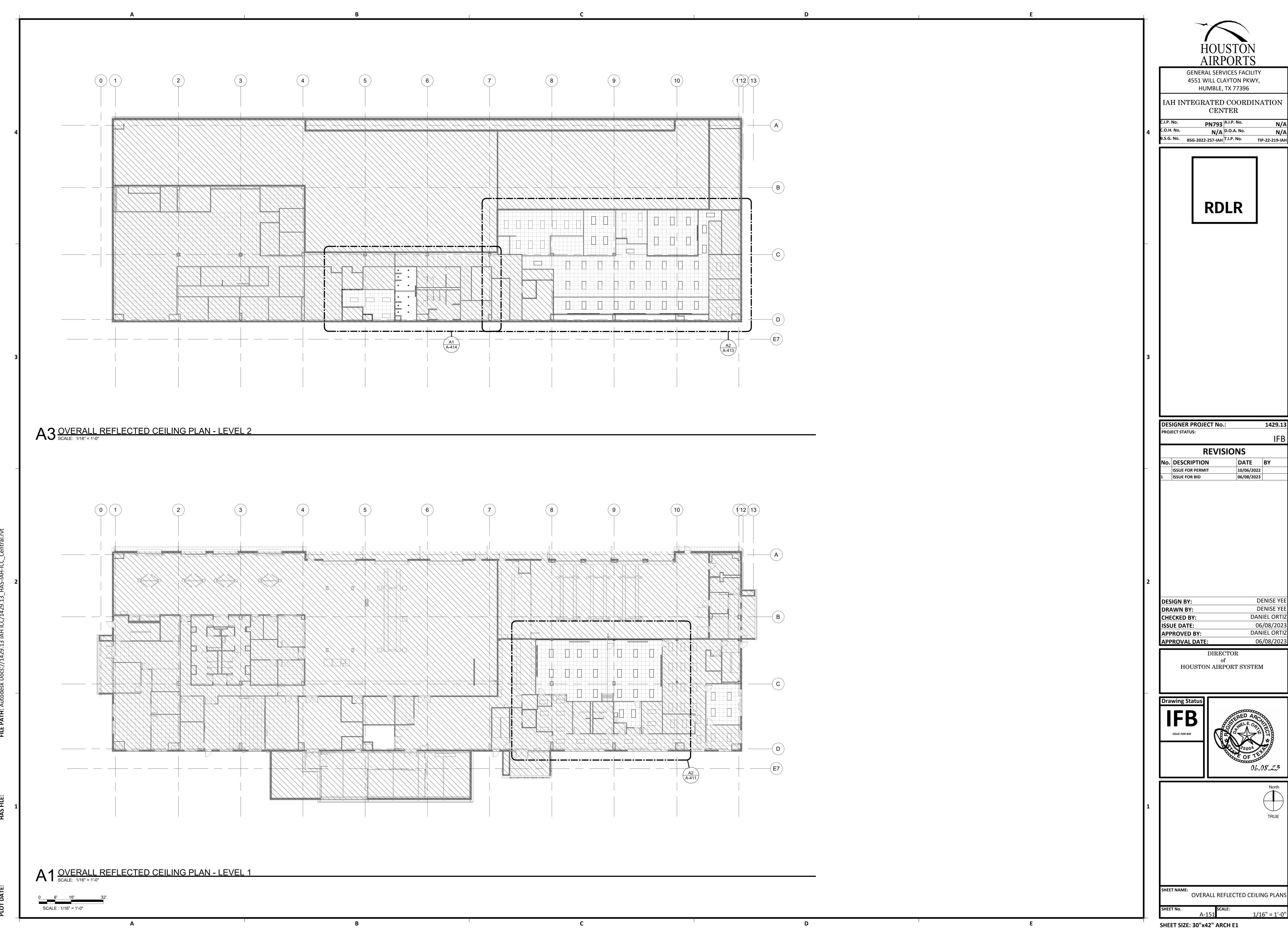
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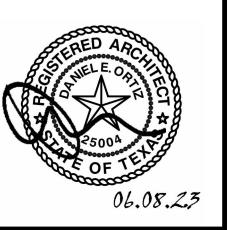
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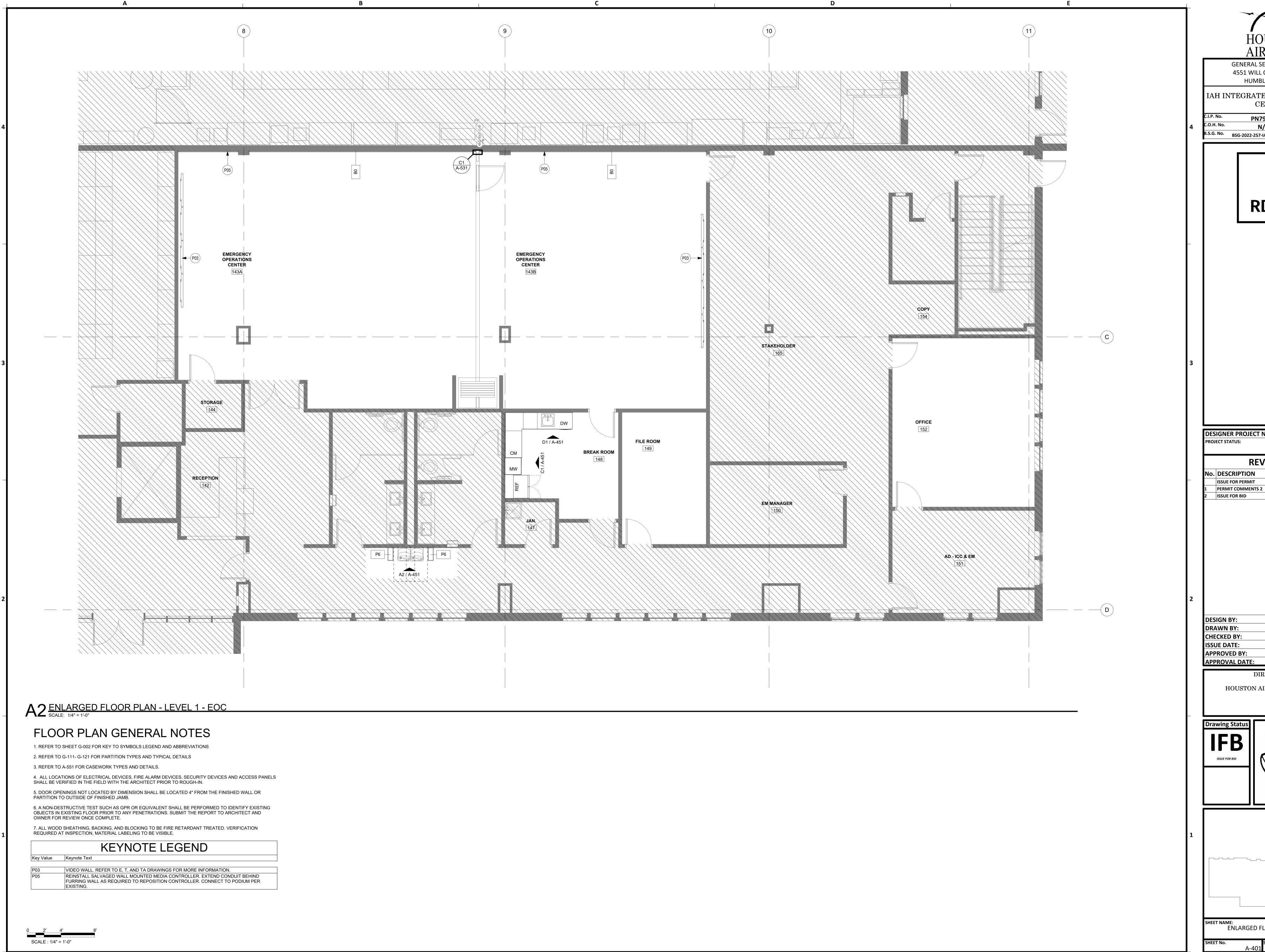




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OVERALL REFLECTED CEILING PLANS

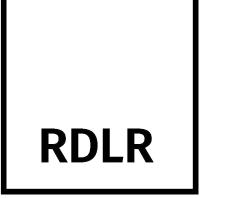


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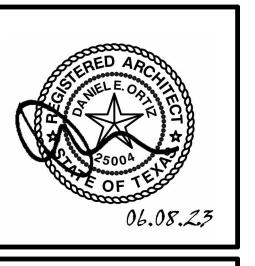
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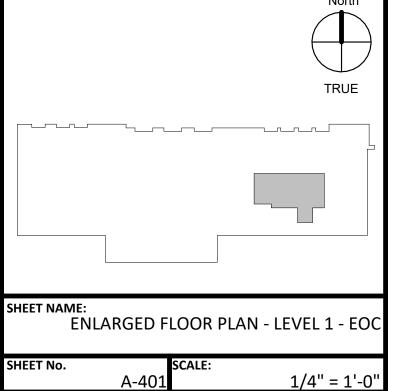
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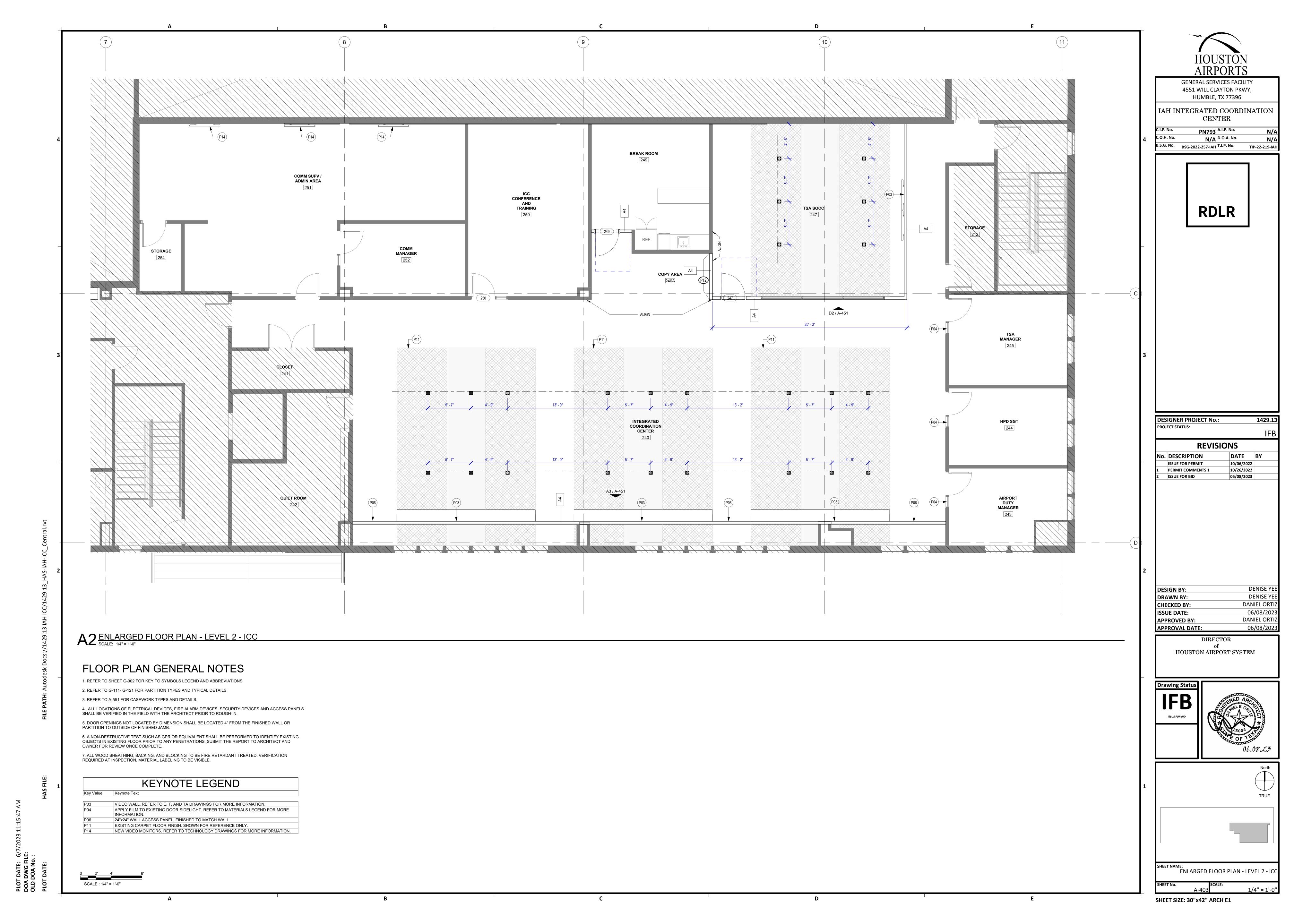
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06/08/2023





1. REFER TO SHEET G-002 FOR KEY TO SYMBOLS LEGEND AND ABBREVIATIONS 2. REFER TO G-111- G-121 FOR PARTITION TYPES AND TYPICAL DETAILS

3. REFER TO A-551 FOR CASEWORK TYPES AND DETAILS.

4. ALL LOCATIONS OF ELECTRICAL DEVICES, FIRE ALARM DEVICES, SECURITY DEVICES AND ACCESS PANELS SHALL BE VERIFIED IN THE FIELD WITH THE ARCHITECT PRIOR TO ROUGH-IN.

5. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE LOCATED 4" FROM THE FINISHED WALL OR

7. ALL WOOD SHEATHING, BACKING, AND BLOCKING TO BE FIRE RETARDANT TREATED. VERIFICATION REQUIRED AT INSPECTION, MATERIAL LABELING TO BE VISIBLE.

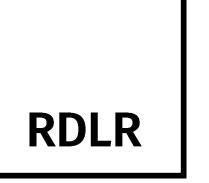
KEYNOTE LEGEND

Key Value Keynote Text

ADD LAYER OF GYPSUM BOARD TO EXISTING WALL. FINISH TO MATCH EXISTING. NEW LOCKERS. LIST INDUSTRIES. REFER TO FURNITURE & EQUIPMENT SCHEDULE FOR MORE INFORMATION.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

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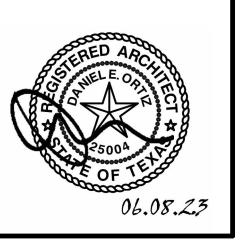
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2	ISSUE FOR BID	06/08/2023	

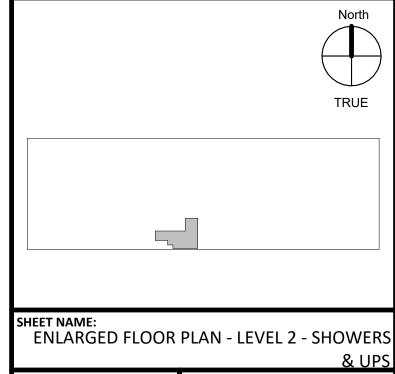
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DIRECTOR



APPROVAL DATE:





PARTITION TO OUTSIDE OF FINISHED JAMB. 6. A NON-DESTRUCTIVE TEST SUCH AS GPR OR EQUIVALENT SHALL BE PERFORMED TO IDENTIFY EXISTING OBJECTS IN EXISTING FLOOR PRIOR TO ANY PENETRATIONS. SUBMIT THE REPORT TO ARCHITECT AND OWNER FOR REVIEW ONCE COMPLETE.

IAH INTEGRATED COORDINATION CENTER

1429.13

 DENICE V

HOUSTON AIRPORT SYSTEM



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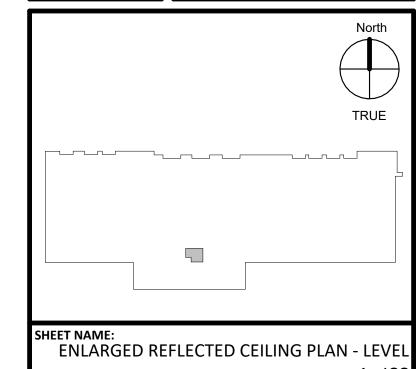
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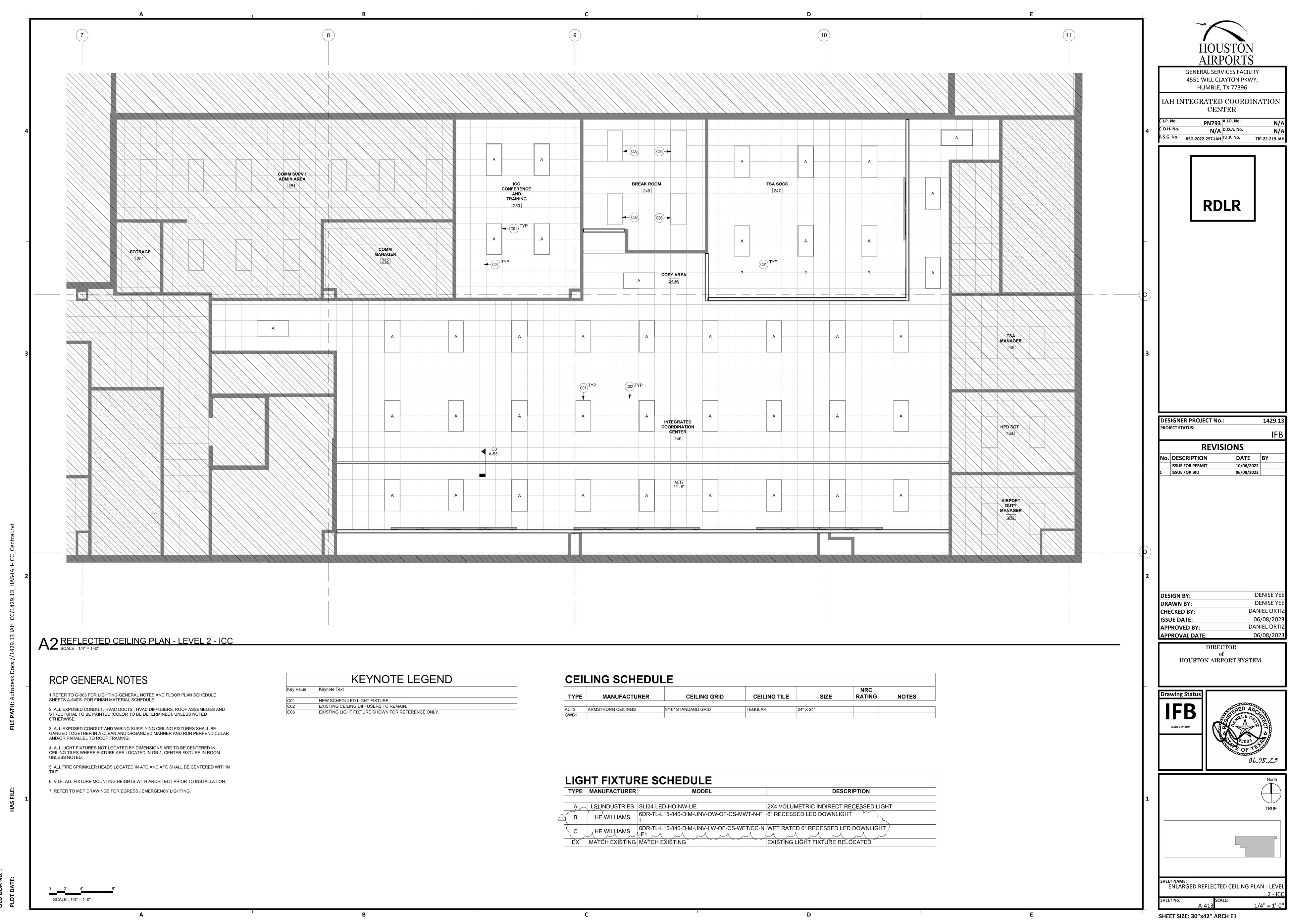
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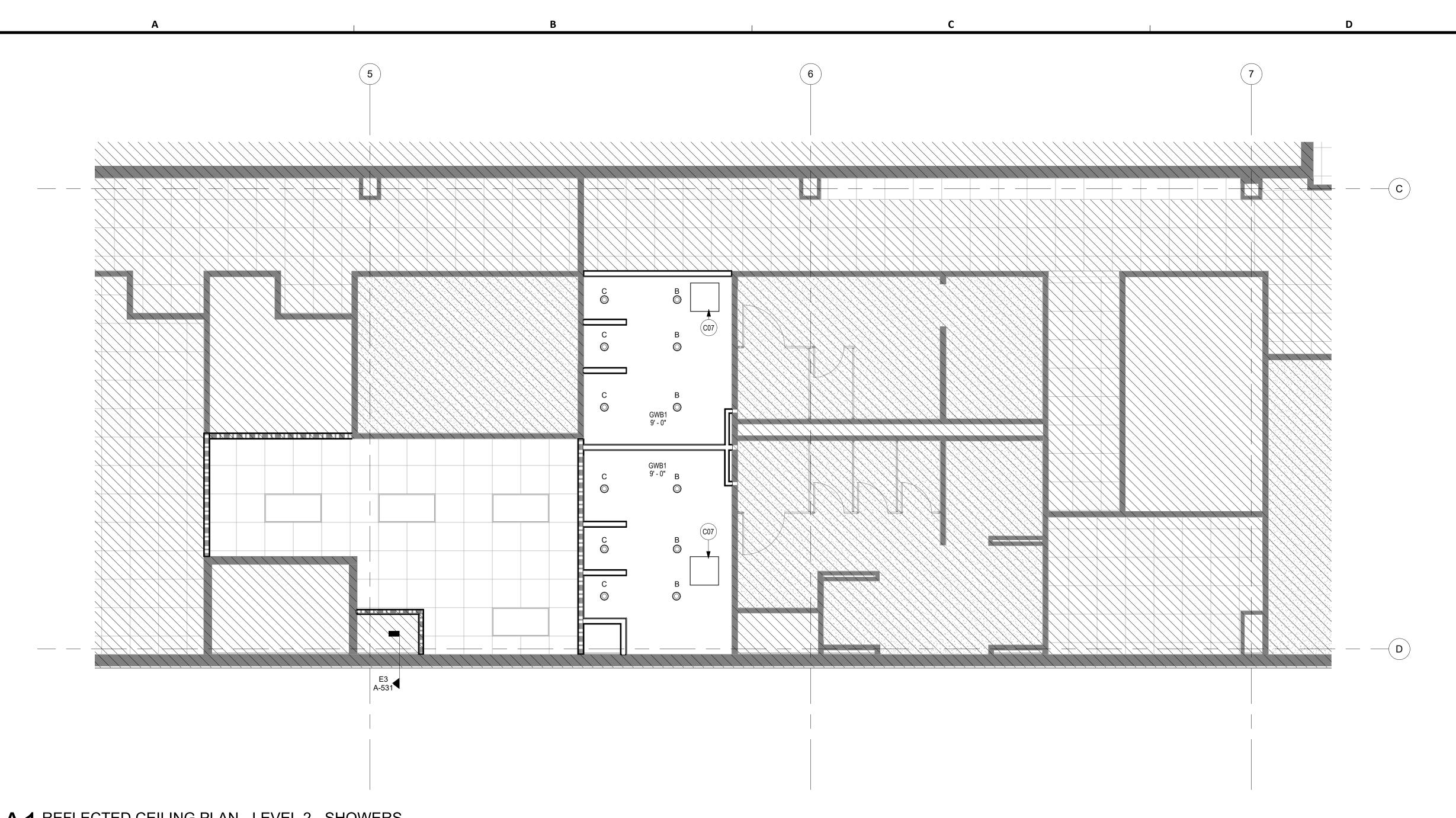
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PLOT DATE: 6/7/2023 11:15:50 AN **DOA DWG FILE:**





PLOT DATE: 6/7/2023 11:15:51 AM **DOA DWG FILE: OLD DOA No.**:



A 1 REFLECTED CEILING PLAN - LEVEL 2 - SHOWERS SCALE: 1/4" = 1'-0"

RCP GENERAL NOTES

1.REFER TO G-003 FOR LIGHTING GENERAL NOTES AND FLOOR PLAN SCHEDULE SHEETS A-540'S FOR FINISH MATERIAL SCHEDULE.

2. ALL EXPOSED CONDUIT, HVAC DUCTS, HVAC DIFFUSERS, ROOF ASSEMBLIES AND STRUCTURAL TO BE PAINTED (COLOR TO BE DETERMINED), UNLESS NOTED OTHERWISE.

3. ALL EXPOSED CONDUIT AND WIRING SUPPLYING CEILING FIXTURES SHALL BE GANGED TOGETHER IN A CLEAN AND ORGANIZED MANNER AND RUN PERPENDICULAR AND/OR PARALLEL TO ROOF FRAMING.

4. ALL LIGHT FIXTURES NOT LOCATED BY DIMENSIONS ARE TO BE CENTERED IN CEILING TILES WHERE FIXTURE ARE LOCATED IN GB-1, CENTER FIXTURE IN ROOM UNLESS NOTED.

5. ALL FIRE SPRINKLER HEADS LOCATED IN ATC AND APC SHALL BE CENTERED WITHIN

6. V.I.F. ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.7. REFER TO MEP DRAWINGS FOR EGRESS / EMERGENCY LIGHTING.

	KEYNOTE LEGEND
Key Value	Keynote Text

PROVIDE ACCESS PANEL.

CEILING SCHEDULE						
TYPE	MANUFACTURER	CEILING GRID	CEILING TILE	SIZE	NRC RATING	NOTES
ACT2	ARMSTRONG CEILINGS	9/16" STANDARD GRID	TEGULAR	24" X 24"		
GWB1						

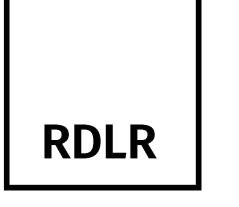
LIGHT FIXTURE SCHEDULE				
TYPE	MANUFACTURER	MODEL	DESCRIPTION	
Α	LSI INDUSTRIES	SLI24-LED-HO-NW-UE	2X4 VOLUMETRIC INDIRECT RECESSED LIGHT	
В	HE WILLIAMS	6DR-TL-L15-840-DIM-UNV-OW-OF-CS-MWT-N-F	6" RECESSED LED DOWNLIGHT	
C	HE WILLIAMS	6DR-TL-L15-840-DIM-UNV-LW-OF-CS-WET/CC-N	WET RATED 6" RECESSED LED DOWNLIGHT	
EX	MATCH EXISTING	MATCH EXISTING	EXISTING LIGHT FIXTURE RELOCATED	



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

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4 C.O.H. No. PN793 A.I.P. No. N/A
C.O.H. No. N/A D.O.A. No. N/A
B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IA



DESIGNER PROJECT No.:
PROJECT STATUS:

REVISIONS

1429.13

 No.
 DESCRIPTION
 DATE
 BY

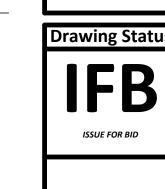
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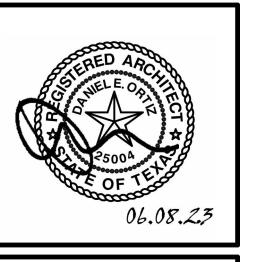
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 ISSUE FOR BID
 06/08/2023

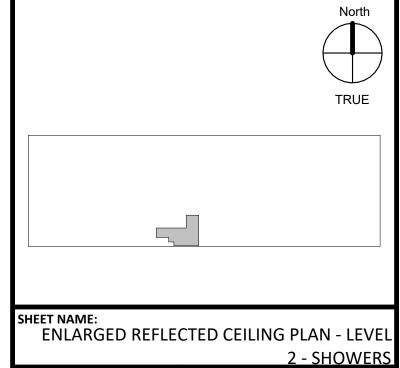
DESIGN BY:
DENISE YEE
DRAWN BY:
DENISE YEE
CHECKED BY:
DANIEL ORTIZ
ISSUE DATE:
06/08/2023
APPROVED BY:
DANIEL ORTIZ

APPROVAL DATE: 06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

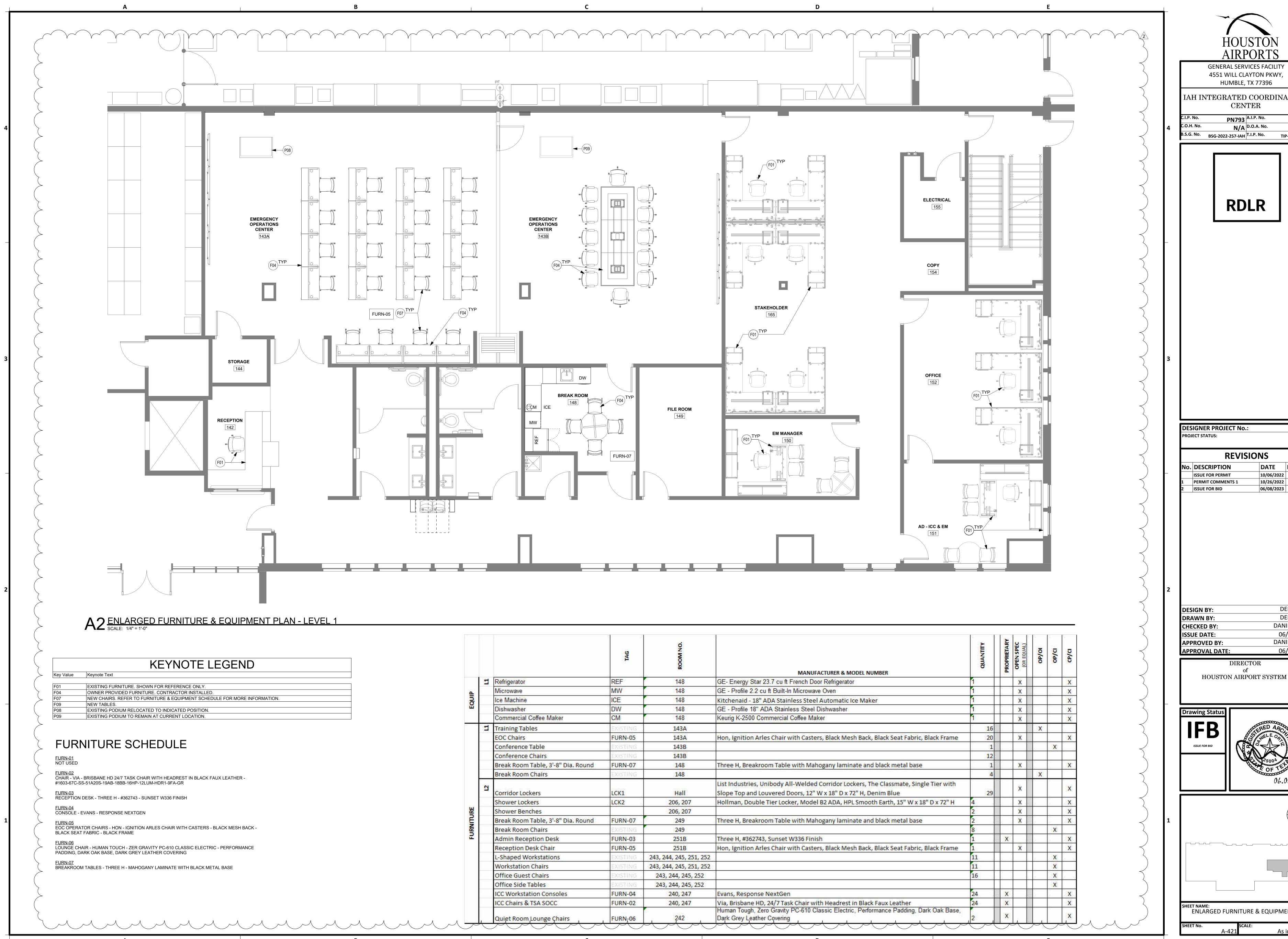






SHEET SIZE: 30"x42" ARCH E1

D E



IAH INTEGRATED COORDINATION

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RDLR

REVISIONS

1429.13

DATE BY 10/26/2022 06/08/2023

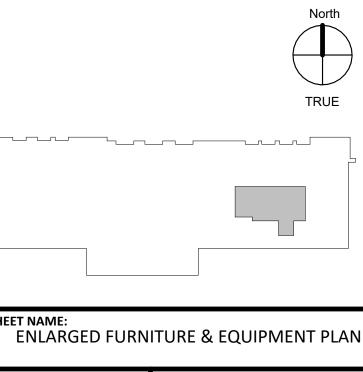
DENISE YE DENISE YEI DANIEL ORTIZ 06/08/2023 DANIEL ORTIZ

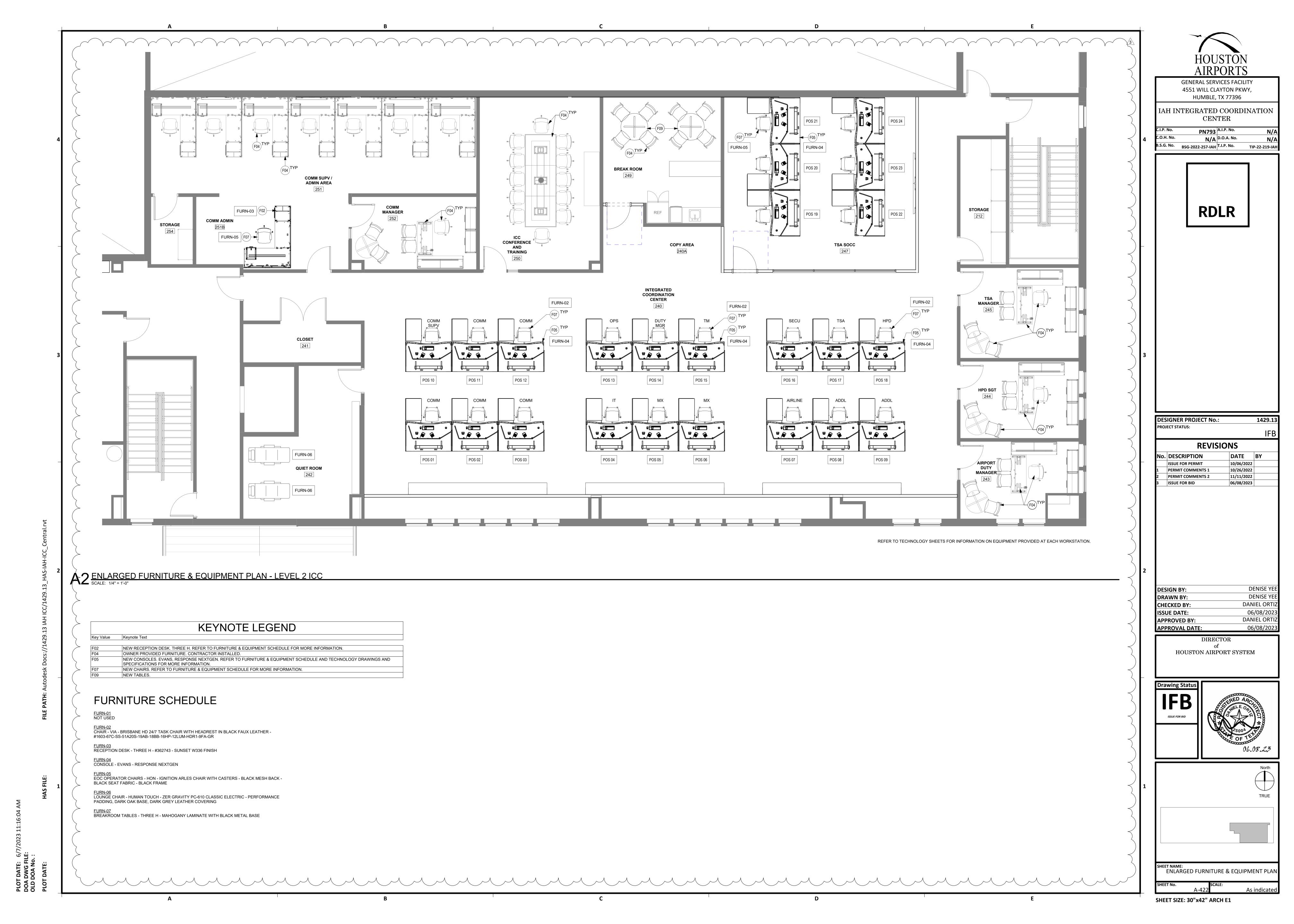
DIRECTOR

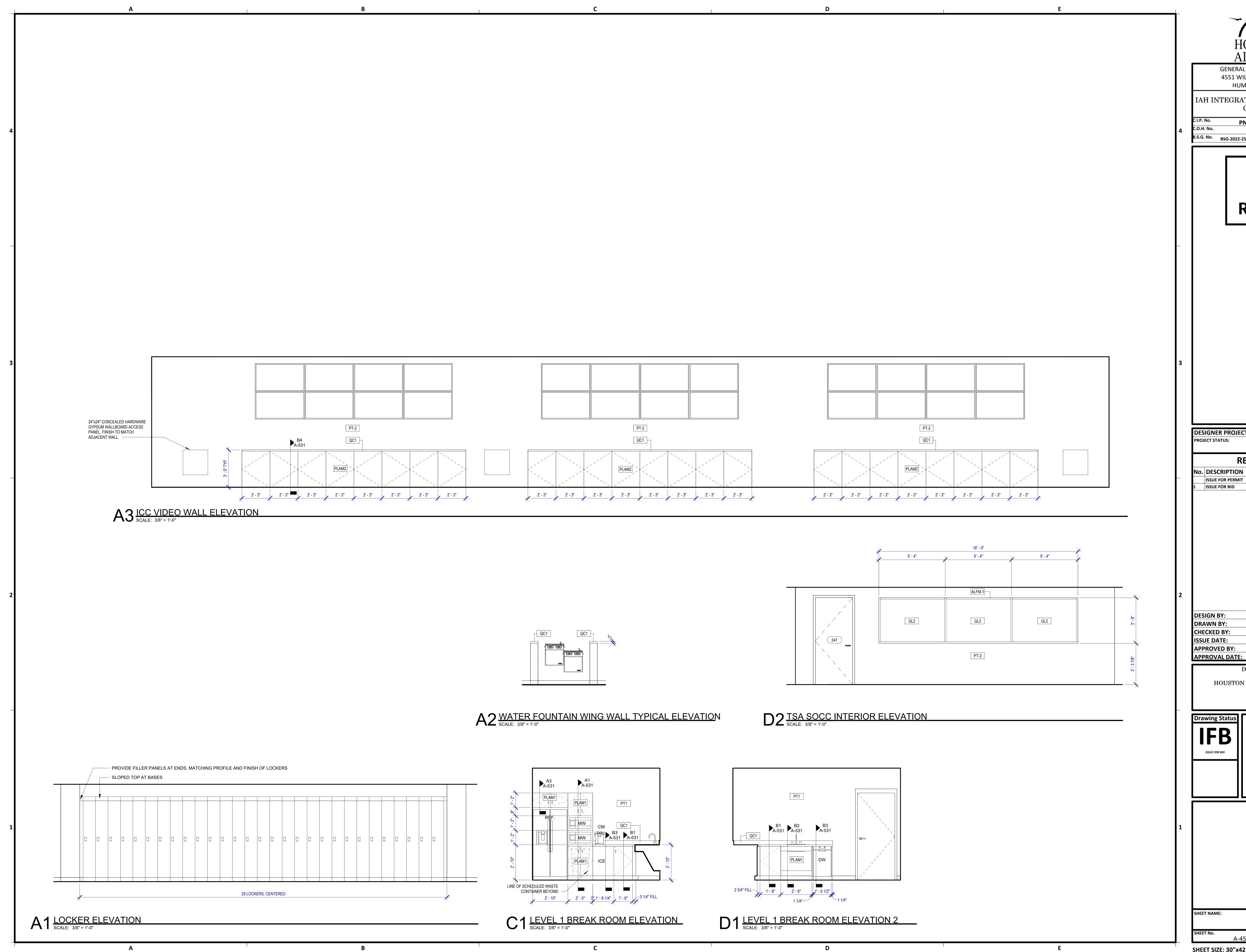


As indicated

06/08/2023



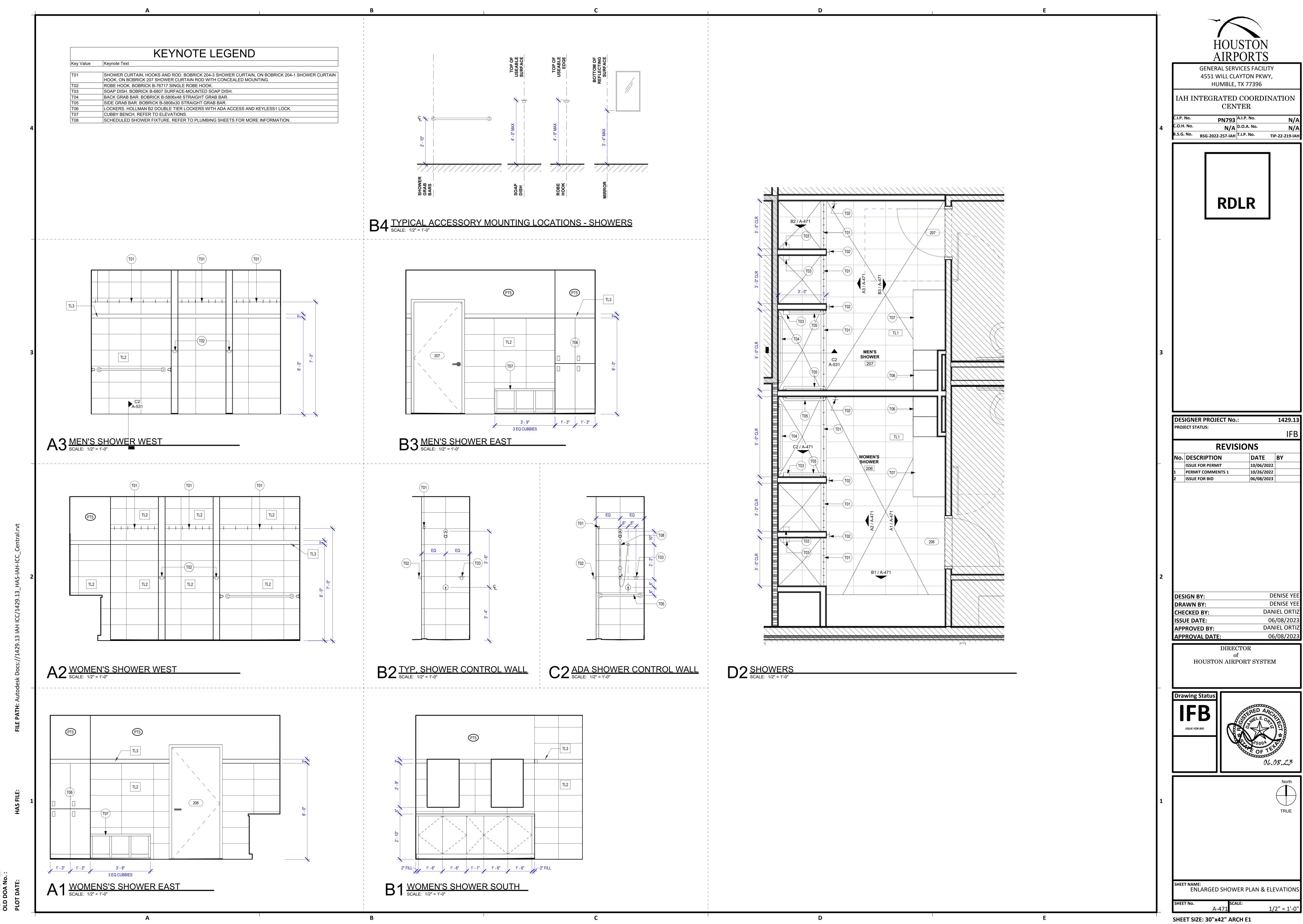




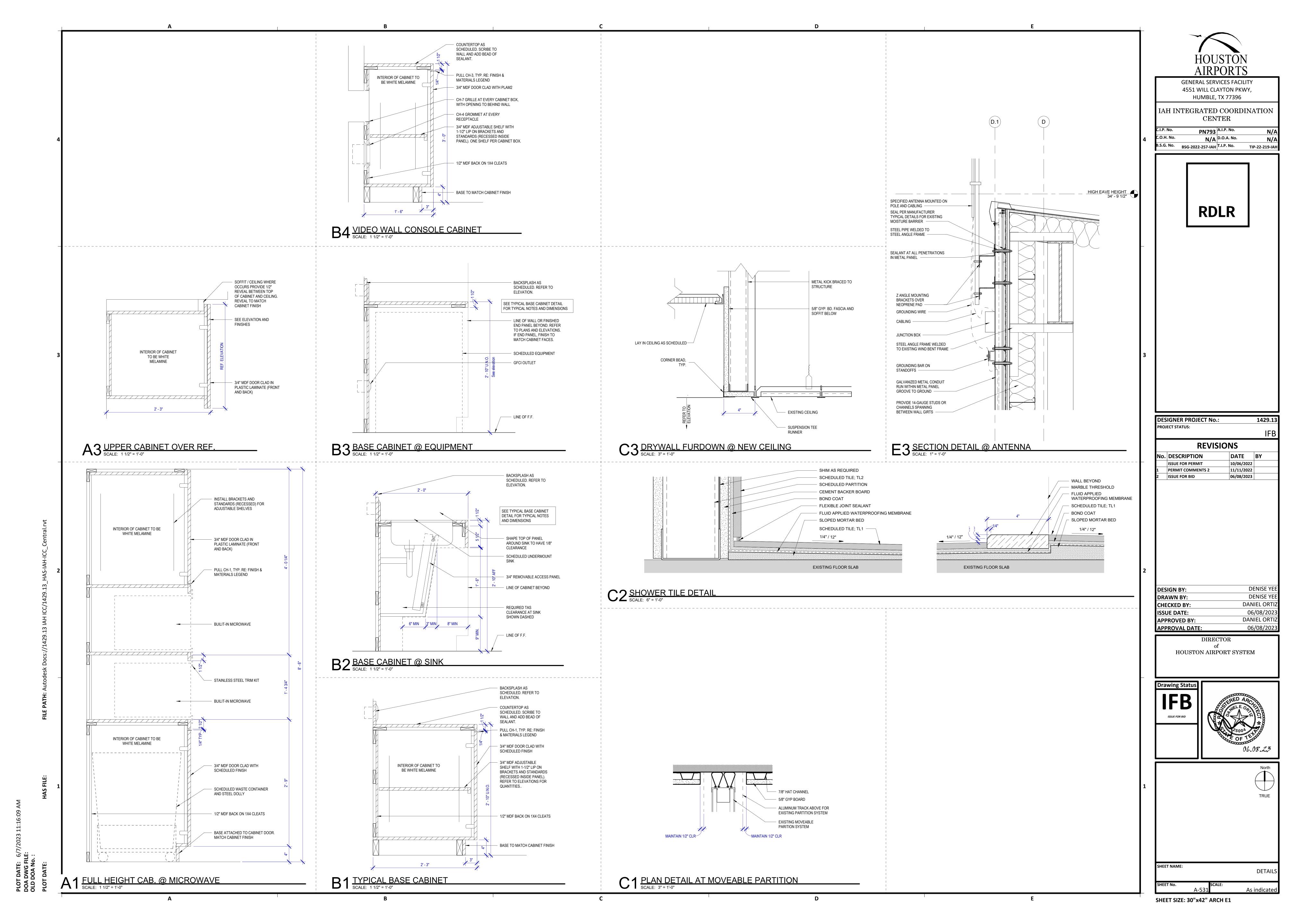
GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396 IAH INTEGRATED COORDINATION CENTER PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. **RDLR DESIGNER PROJECT No.:** 1429.13 **REVISIONS** DATE BY 10/06/2022 06/08/2023 DENISE YEI DENISE YEE DANIEL ORTIZ 06/08/2023 DANIEL ORTIZ 06/08/2023 DIRECTOR HOUSTON AIRPORT SYSTEM

INTERIOR ELEVATIONS

3/8" = 1'-0"







DIVISION 6 – CABINET HARDWARE & ACCESSORIES

<u>CH1</u> 4" WIRE PULL. FINISH: SATIN NICKEL. OCCURS: ALL CABINETS U.N.O.

CH2
RUBBERMAID. 3541 SLIM-JIM. COLOR GRAY. SIZE 23L X 11W X 24.9H. OCCURS: LEVEL 1 BREAK ROOM.

CH3
MOCKET. DP3 TAB PULL SERIES. SIZE: 3". FINISH: SATIN NICKEL. OCCURS: LEVEL 2 ICC VIDEO WALL CONSOLES.

CH-4 MOCKET. 4 ½" MIN OPENING, BRUSHED STAINLESS GROMMET. OCCURS: AT MILLWORK FOR ACCESS TO POWER, TYPICAL.

<u>CH-5</u> RUBBERMAID. 3553 SLIM-JIM STAINLESS STEEL DOLLY. OCCURS: LEVEL 1 BREAK

1) GRASS, CONCEALED SELF CLOSING 120 - HINGES.

2) ACCURIDE, #C38000 DRAWER SLIDE 3) KNAPE & VOIGHT, #87 AND 187 SHELF STANDARD

MOCKET, 8" X 18" METAL AIR VENT GRILLE. OCCURS: AT MILLWORK FOR VENTILLATING EQUIPMENT HEAT LOAD, TYPICAL.

DIVISION 8 – DOORS AND WINDOWS

ALFM1
"RACO SOLUTIONS 375 SERIES WITH 1" TRIM AND A 4-7/8"" OVERALL WIDTH, FACTORY FINISHED, FINISH: ANODIZED 1" SNAP FACE TRIM AS ELEVATED.. REFER TO ELEVATIONS AND FLOOR PLAN.

<u>GL1</u> NOT USED

GL2 ONE WAY MIRRORED GLASS.

DIVISION 9 - FINISHES

PLASTIC LAMINATE

WILSONART - BRIGHTON WALNUT

QC1 COSENTINO - SILESTONE - ET CALACATTA GOLD

WILSONART - CHARCOAL VELVET - TRACELESS FINISH

ACOUSTIC TILE ACT1 NOT USED

ACT1
2x2 OPTIMA TEGULAR WITH 9/16" STANDARD GRID. PAINTED BLACK TO MATCH PT4. MAINTAIN ACOUSTICAL PROPERTIES AFTER PAINT.

RUBBER BASE

RB1
ROPPE 4" TALL . 700 SERIES, LUNAR DUST 114. COVE BASE @ SEALED
CONCRETE, STRAIGHT BASE @ CARPET AND DOOR PORTAL BUILD-OUTS.
OCCURS: TYPICAL WALL BASE UNO. REFER TO PLAN FOR FURTHER

PT1
SHERWIN WILLIAMS - DRIFT OF MIST 9166. OCCURS: ALL WALLS U.N.O. REFER TO

PT2
SHERWIN WILLIAMS - ENDLESS SEA 9150. ACCENT COLOR. REFER TO PLAN FOR

PT3
SHERWIN WILLIAMS. COLOR TO MATCH EXISTING DOOR FRAMES. OCCURS: ALL DOOR FRAMES. <u>PT4</u> SHERWIN WILLIAMS - BLACK TBD. ACCENT COLOR. REFER TO PLANS AND

ELEVATIONS FOR MORE INFORMATION. PT5
SHERWIN WILLIAMS - EPOXY PAINT - DRIFT OF MIST 9166. OCCURS: SHOWER

GLASS FILM

WALLS AND CEILING.

GF1 3M - CRYSTAL GLASS FINISH - FROSTED CRYSTAL 7725SE-324. OCCURS: SIDE LITES IN DOORS TO OFFICES AT LEVEL 2 ICC

DALTILE - VL72 INTENSITY PEBBLE - 12"X24". OCCURS: SHOWER FLOORS.

TL2
DALTILE - VL74 REVERB ASH - 12"X24". OCCURS: SHOWER WALLS.

DALTILE - BP97 EVENING SKY- BRICK JOINT - MOSAIC. OCCURS: ACCENT TRIM AT SHOWER WALLS.

DIVISION 10 - SPECIALTIES

LOCKERS

<u>LCK1</u> LIST INDUSTRIES - UNIBODY ALL-WELDED CORRIDOR LOCKERS - THE CLASSMATE - SINGLE TIER WITH SLOPE TOP AND LOUVERED DOORS - 12" WIDTH X 18" DEPTH X 72" HEIGHT - DENIM BLUE. OCCURS: HALLWAY

HOLLMAN - DOUBLE TIER LOCKER - MODEL B2 - ADA MODEL - HPL SMOOTH EARTH - 72" HEIGHT X 15" WIDTH X 18" DEPTH. OCCURS: SHOWERS

DIVISION 11 – EQUIPMENT

REFRIGERATOR

REF GE - ENERGY STAR 23.7 CU FT FRENCH DOOR REFRIGERATOR. OCCURS: LEVEL 1 BREAK ROOM

MICROWAVE

MW GE - PROFILE 2.2 CU FT BUILT-IN MICROWAVE OVEN. OCCURS: LEVEL 1

DISHWASHER

<u>DW</u> GE - PROFILE 18" ADA STAINLESS STEEL DISHWASHER. OCCURS: LEVEL 1

BREAK ROOM UNDERCOUNTER ICE MAKER

<u>ICE</u> KITCHENAID - 18" ADA STAINLESS STEEL AUTOMATIC ICE MAKER. OCCURS: LEVEL 1 BREAK ROOM

COFFEE MAKER

<u>CM</u> KEURIG - K-2500 COMMERCIAL COFFEE MAKER. OCCURS: LEVEL 1 BREAK

DIVISION 12-FURNITURE AND FABRICS

REFER TO FURNITURE & EQUIPMENT PLAN.

DIVISION 23 – MECHANICAL

DIVISION 26 – ELECTRICAL

REFER TO MECHANICAL DRAWINGS

REFER TO ELECTRICAL DRAWINGS

POWER/SIGNAL OUTLETS, SWITCHES AND SWITCH PLATES TO BE LEVITON DECORA, WHITE FINISH TYPICAL ON ALL PT-1 WALLS.

ROOM	M FINISH SCHEDULE								
				NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE	FINISH	FINISH	FINISH	FINISH	FINISH	REMARKS
143A	EMERGENCY OPERATIONS CENTER	Existing	RB1	PT1	PT1	PT1	PT1	Existing	
143B	EMERGENCY OPERATIONS CENTER	Existing	RB1	PT1	PT1	PT1	PT1	Existing	
148	BREAK ROOM	Existing	Existing	Existing	Existing	Existing	Existing	Existing	
152	OFFICE	Existing	Existing	Existing	Existing	Existing	Existing	Existing	
206	WOMEN'S SHOWER	TL1		TL2, TL3	TL2, TL3	TL2, TL3	TL2, TL3	PT1	
207	MEN'S SHOWER	TL1		TL2, TL3	TL2, TL3	TL2, TL3	TL2, TL3	PT1	
211	UPS ROOM	Existing	RB1	PT1	PT1	PT1	PT1	Existing	
240	INTEGRATED COORDINATION CENTER	Existing	RB1	PT2	PT4	Existing	Existing	Existing, ACT2	1, 2
240A	COPY AREA	Existing	RB1	PT2		PT2	Existing	Existing	
243	AIRPORT DUTY MANAGER	Existing	Existing	Existing	Existing	Existing	Existing	Existing	
244	HPD SGT	Existing	Existing	Existing	Existing	Existing	Existing	Existing	
245	TSA MANAGER	Existing	Existing	Existing	Existing	Existing	Existing	Existing	
247	TSA SOCC	Existing	RB1	Existing	PT1	PT4	PT1	Existing	1

RB1

Existing

BREAK ROOM

ROOM FINISH SCHEDULE REMARKS LEGEND

Existing

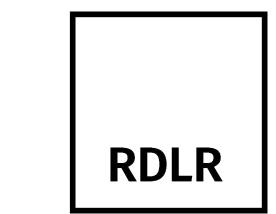
- REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR MATERIAL PATTERNS,
- ORIENTATIONS AND PAINT COLOR LOCATIONS. CEILING HEIGHT VARIES.



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

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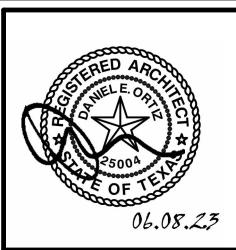


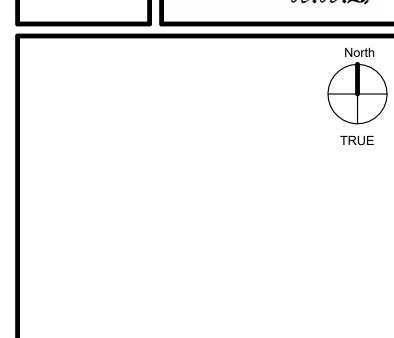
DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 **ISSUE FOR BID** 06/08/2023

ESIGN BY:	DENISE YEI
RAWN BY:	DENISE YEI
HECKED BY:	DANIEL ORTIZ
SSUE DATE:	06/08/2023
PPROVED BY:	DANIEL ORTIZ
PPROVAL DATE:	06/08/2023

DIRECTOR HOUSTON AIRPORT SYSTEM







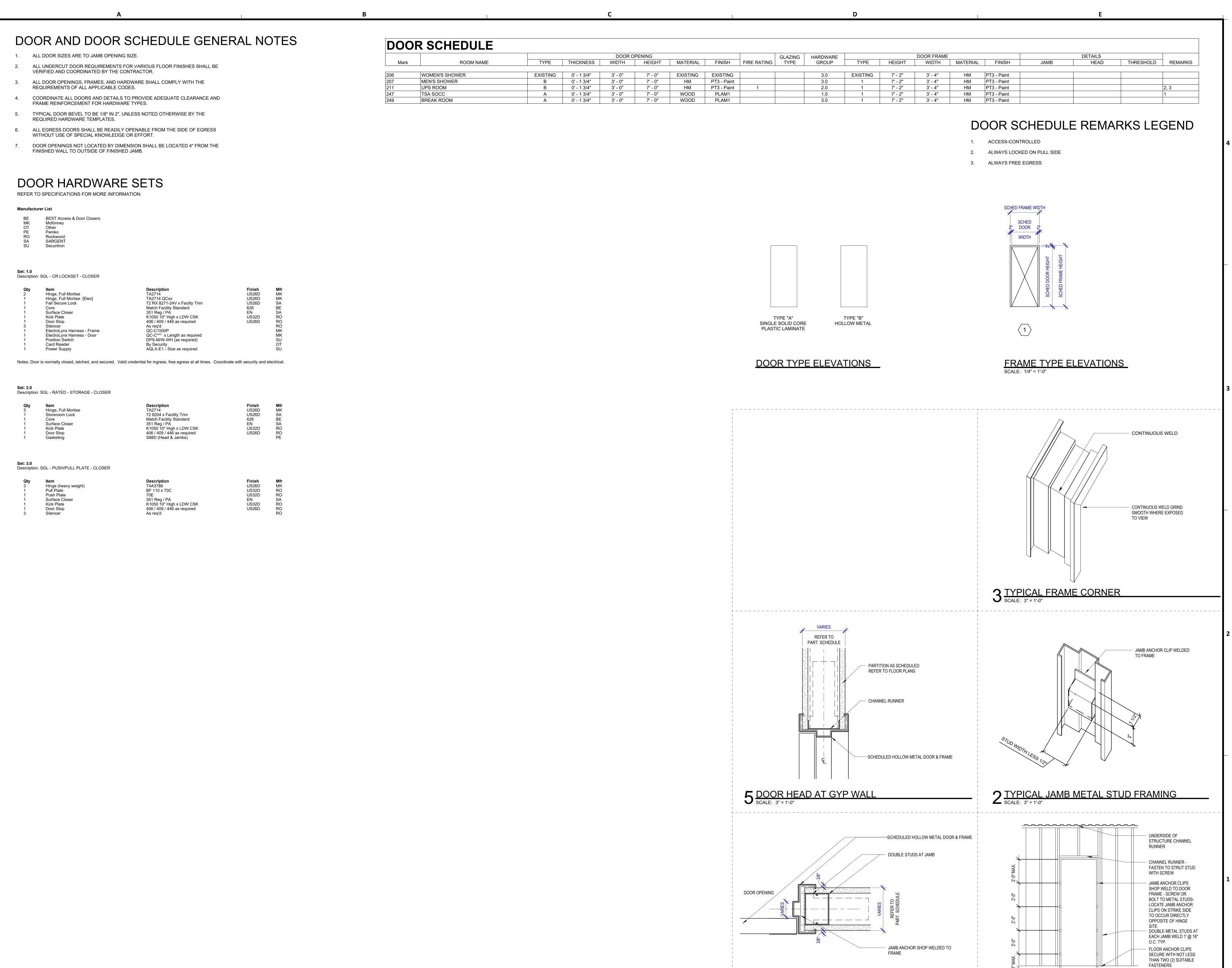
ROOM FINISH SCHEDULE AND MATERIALS As indicated

MATERIALS AND FINISHES GENERAL NOTES

- WHERE MULTIPLE MATERIALS, FINISHES &/OR VARIATIONS IN ELEVATION ARE SPECIFIED FOR A SINGLE SURFACE, REFERENCE INFORMATION IS LOCATED ON THE
- INTERIOR WALL FINISHES ARE REFERENCED FROM THE ROOM FINISH SCHEDULE OR
- INTERIOR FLOOR FINISHES ARE REFERENCED FROM THE ROOM FINISH SCHEDULE OR
- FROM THE FLOOR PLANS. INTERIOR CEILING FINISHES ARE REFERENCED FROM THE ROOM FINISH SCHEDULE OR FROM THE REFLECTED CEILING PLANS.
- WHERE GYPSUM BOARD LAYERS DIFFER BETWEEN BETWEEN TWO ADJOINING
- WALLS, MAINTAIN A CONTINUOUS FINISH FACE OF WALL. ALL INTERIOR PAINT SHEENS TO BE EGGSHELL UNLESS OTHERWISE NOTED.
- PROVIDE RUBBER TRANSITION STRIPS AT ALL FLOOR MATERIAL TRANSITIONS UNLESS OTHERWISE NOTED. MATCH ROPPE #50 TILE/CARPET JOINER, BLACK 100. ALL

LOCATIONS ARE TO BE VERIFIED IN THE FIELD WITH THE ARCHITECT PRIOR TO

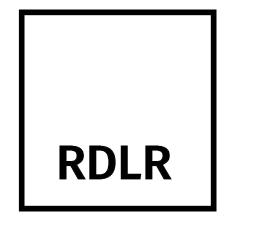
- 8. ALL PAINT COLOR LOCATIONS ARE TO BE VERIFIED IN THE FIELD WITH THE ARCHITECT
- PRIOR TO INSTALLATION. 9. ALL GWB PARTITIONS TO BE PT1 UNLESS OTHERWISE NOTED.
- 10. GWB CEILINGS TO BE PT1 UNLESS OTHERWISE NOTED.





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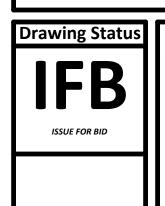


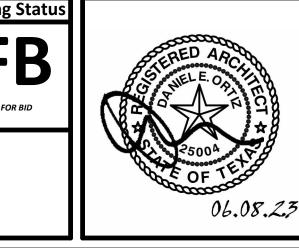
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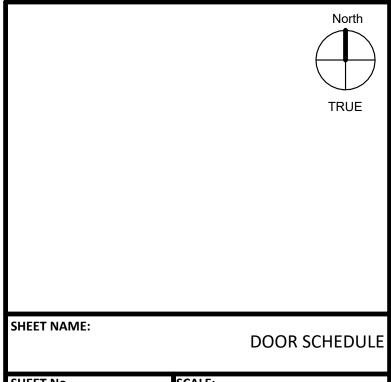
REVISIONS No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 10/26/2022 PERMIT COMMENTS 1 06/08/2023 **ISSUE FOR BID**

DENISE YE DESIGN BY: DENISE YEI DRAWN BY: DANIEL ORTIZ CHECKED BY: 06/08/2023 **ISSUE DATE:** DANIEL ORTIZ **APPROVED BY: APPROVAL DATE:** 06/08/2023

> DIRECTOR HOUSTON AIRPORT SYSTEM







As indicated

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

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

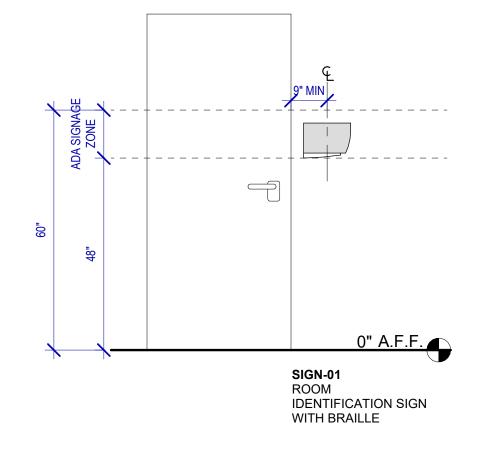
S101.1.6 WAITING

1/4" THICK THERMOFORMED ACRYLIC PANEL, EDGES SANDED SMOOTH & EASED.
PAINT ALL EXPOSED SURFACES TO MATCH
MATTHEWS ACRYLIC POLYURETHANE PMS 433C, SATIN FINISH. - ALL TEXT TO BE 1/32" RAISED TACTILE LETTERS, CLEARVIEWTEXT MEDIUM FONT,

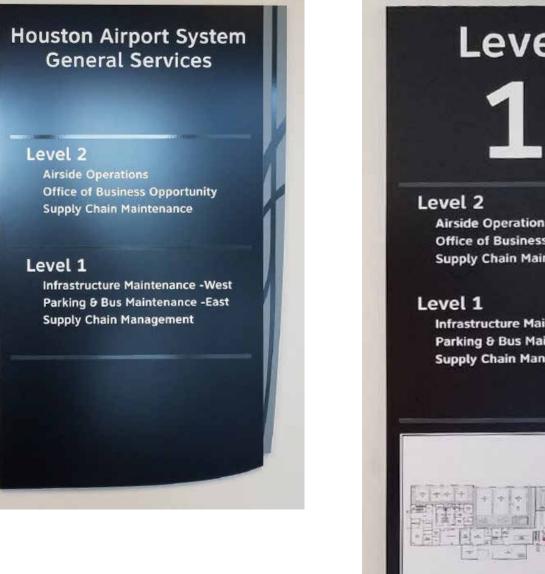
MIN 1" HEIGHT, PAINTED WHITE TO MATCH MATTHEWS ACRYLIC POLYURETHANE MP N202, SATIN FINISH. NO COLOR APPLIED TO BRAILLE. TYPICAL.

SCREEN PAINT WATERMARK GRAPHIC WITH MATTHEWS ACRYLIC POLYURETHANE PAINT, SATIN FINISH

TYPICAL ROOM SIGNAGE MOUNTING



EXAMPLE OF EXISTING **EXAMPLE OF EXISTING** SIGNAGE - SIGN-02 SIGNAGE - SIGN-03



EXAMPLE OF EXISTING SIGNAGE - SIGN-05



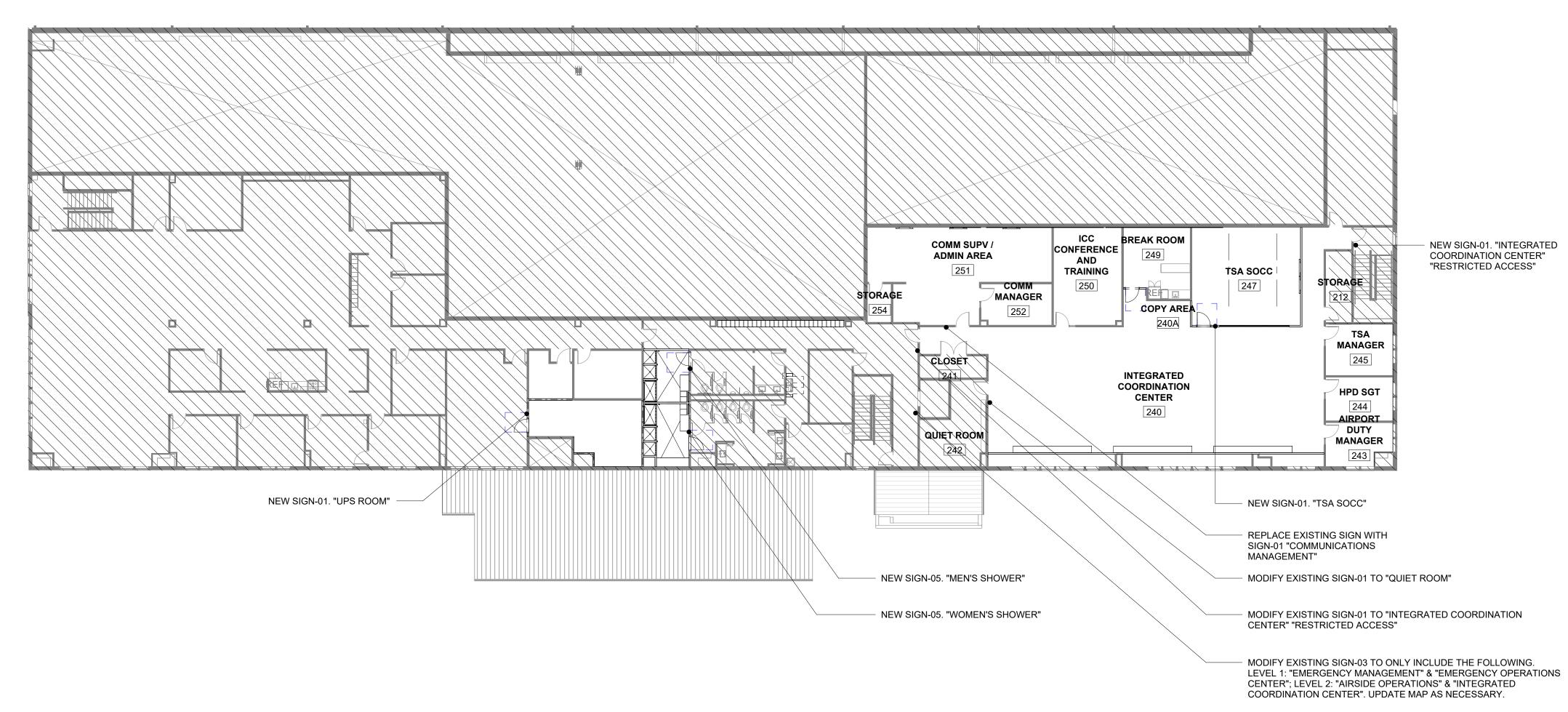
Level Office of Business Opportunity Supply Chain Maintenance

Parking & Bus Maintenance Supply Chain Management IN CASE OF FIRE DO NOT USE ELEVATOR USE STAIRS

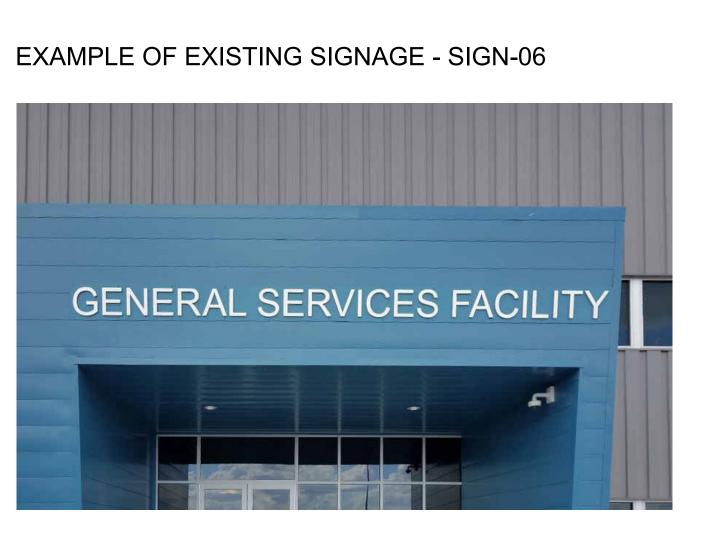
SIGNAGE SCOPE

1. CONTRACTOR TO UPDATE ALL EXTERIOR SIGNAGE (INCLUDING EXTERIOR MARQUEE) AS APPROPRIATE TO INCLUDE NEW OCCUPANTS (EOC & ICC) 2. CONTRACTOR TO PROVIDE NEW INTERIOR SIGNAGE TO MATCH EXISTING AT SCOPE LOCATIONS DEFINED IN THIS PACKAGE.

3. ALL SIGNAGE MUST COMPLY WITH HAS SIGNAGE STANDARDS AND MOST RECENT TAS/ADA TACTILE/SPACING/SIZING/FORMATTING REQUIREMENTS. 4. CONTRACTOR TO VERIFY ALL ROOM NUMBERS AND NAMES WITH OWNER PRIOR TO FABRICATION.



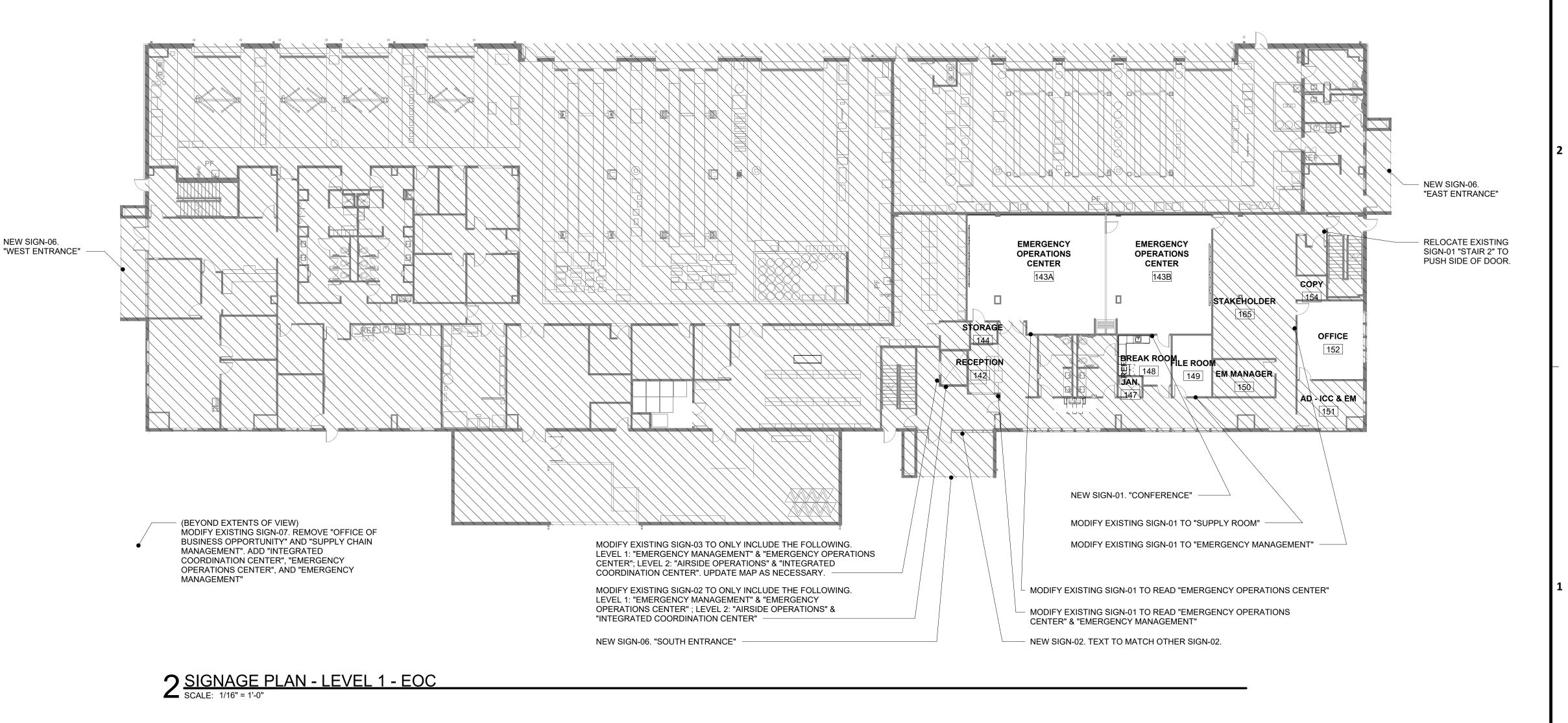
3 SIGNAGE PLAN - LEVEL 2 - ICC SCALE: 1/16" = 1'-0"



EXAMPLE OF EXISTING SIGNAGE - SIGN-07



REPLACE "OFFICE OF BUSINESS OPPORTUNITY" AND "SUPPLY CHAIN". ADD "INTEGRATED COORDINATION CENTER", "EMERGENCY OPERATIONS CENTER" AND "EMERGENCY MANAGEMENT" IN LISTED ORDER.



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

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RDLR

DESIGNER PROJECT No.: PROJECT STATUS:

REVISIONS

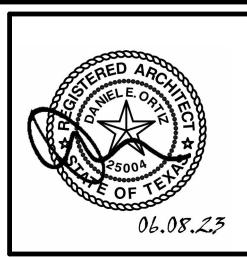
1429.13

No. DESCRIPTION DATE BY PERMIT COMMENTS 1 10/26/2022 06/08/2023 **ISSUE FOR BID**

DENISE YE **DESIGN BY:** DENISE YEI **DRAWN BY:** DANIEL ORTIZ **CHECKED BY:** 06/08/2023 **ISSUE DATE:** DANIEL ORTIZ **APPROVED BY:** APPROVAL DATE: 06/08/2023

> DIRECTOR HOUSTON AIRPORT SYSTEM

Drawing Status

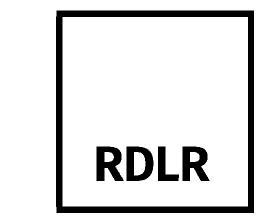


As indicated

IAH INTEGRATED COORDINATION

CENTER

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



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

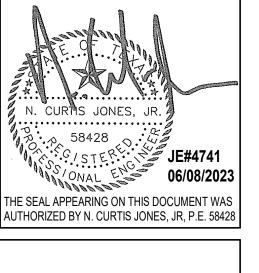
DESIGNER PROJECT No.: 1429.13 **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022

06/08/2023

06/08/2023 APPROVED BY: 06/08/2023 APPROVAL DATE: DIRECTOR

HOUSTON AIRPORT SYSTEM

Drawing Status



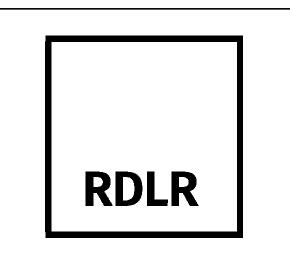
SHEET NAME:
MECHANICAL ABBREVIATIONS, LEGENDS





IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



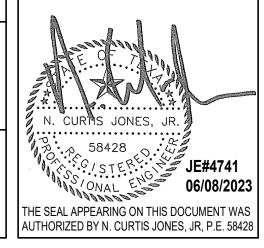


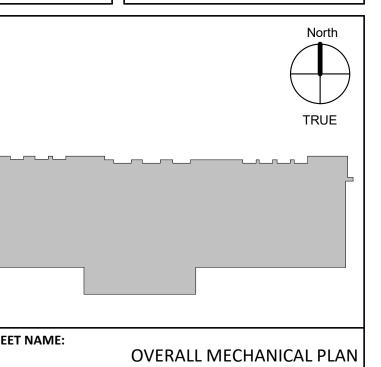
1429.13 **DESIGNER PROJECT No.:** PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 06/08/2023 **ISSUE FOR PERMIT** ISSUE FOR BID

DESIGN BY: DRAWN BY: CHECKED BY: **ISSUE DATE:** 06/08/2023 **APPROVED BY:** 06/08/2023 APPROVAL DATE:

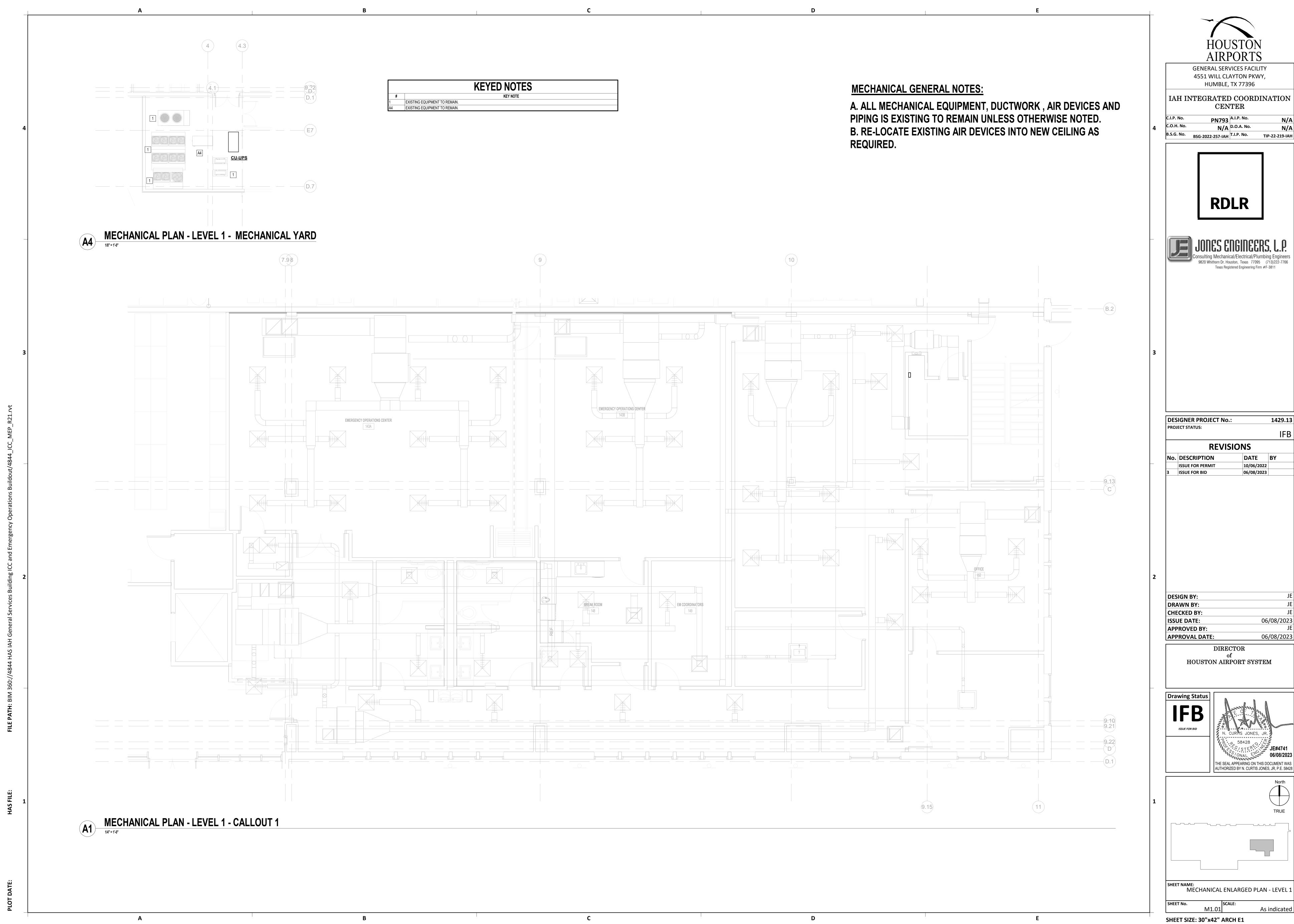
DIRECTOR HOUSTON AIRPORT SYSTEM

Drawing Status





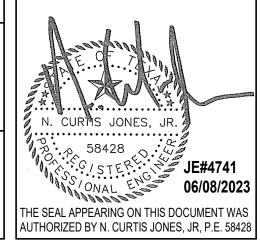
1/16" = 1'-0"

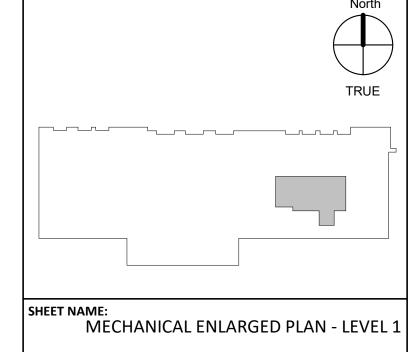




1429.13

06/08/2023





MECHANICAL GENERAL NOTES: A. ALL MECHANICAL EQUIPMENT, DUCTWORK, AIR DEVICES AND **KEYED NOTES** KEY NOTE

RE-LOCATE EXISTING DIFFUSER. BALANCE TO CFM INDICATED.

RE-BALANCE EXISTING DIFFUSER TO CFM INDICATED. PIPING IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED. B. RE-LOCATE EXISTING AIR DEVICES INTO NEW CEILING AS REQUIRED. (9.19) (7.2) COMM SUPV / ADMIN AREA BREAK ROOM ICC CONFERENCE AND TRAINING **DESIGNER PROJECT No.:** PROJECT STATUS: **DESIGN BY:** MECHANICAL PLAN - LEVEL 2 - CALLOUT 1

1/4" = 1'-0" SHEET SIZE: 30"x42" ARCH E1

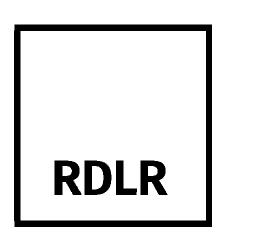


GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No.

N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No.



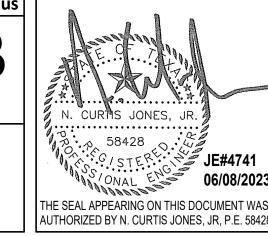


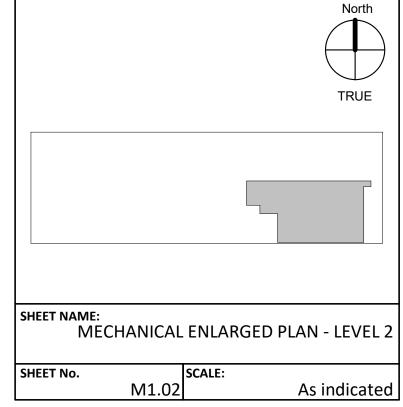
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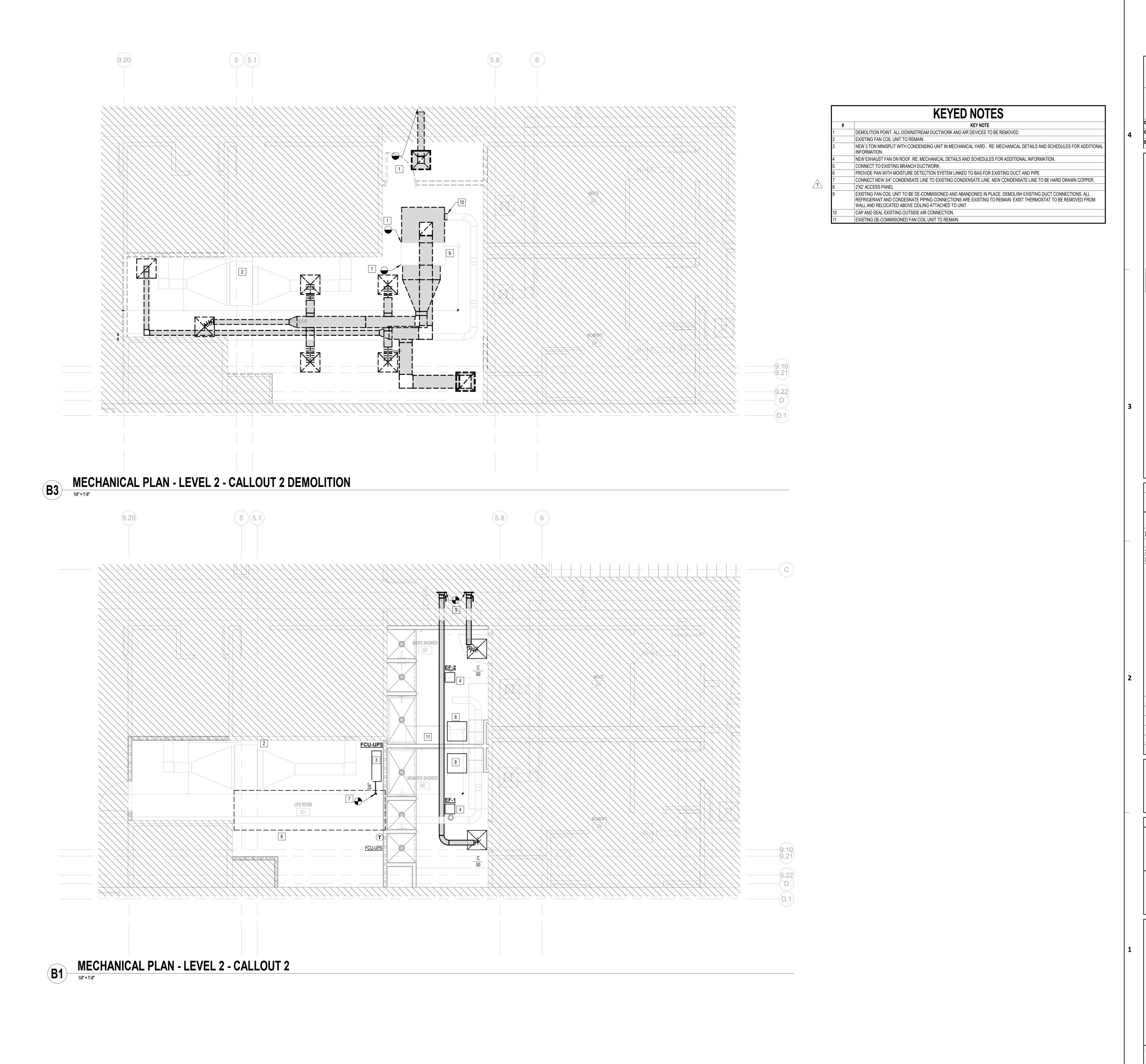
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DRAWN BY: CHECKED BY: 06/08/2023 **ISSUE DATE: APPROVED BY:** APPROVAL DATE: 06/08/2023

DIRECTOR HOUSTON AIRPORT SYSTEM

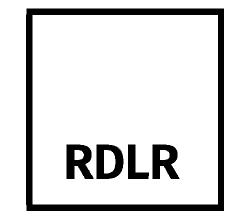






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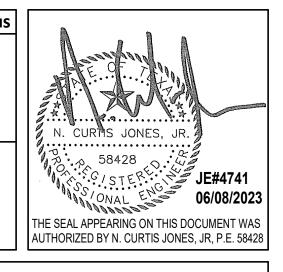


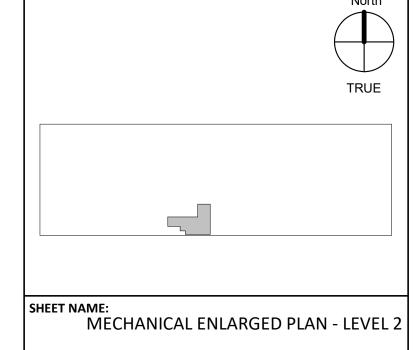
	DESIGNER PROJECT No.:				
PROJ	ECT STATUS:		IFB		
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No.	DESCRIPTION	DATE	ВҮ		
	ISSUE FOR PERMIT	10/06/2022			
1	PERMIT COMMENTS 1	10/26/2022			
	ISSUE FOR BID	06/08/2023			

DESIGN BY: DRAWN BY: **CHECKED BY: ISSUE DATE:** 06/08/2023 **APPROVED BY:** 06/08/2023 APPROVAL DATE:

> DIRECTOR HOUSTON AIRPORT SYSTEM

Drawing Status





SHEET SIZE: 30"x42" ARCH E1

1/4" = 1'-0"

FAN SCHEDULE ELECTRICAL E.S.P. IN. MOTOR DATA LOCATION AREA(S) SERVED FAN TYPE CFM W.G. HP RPM V PH HZ (UPBLAST 210 UPBLAST 210 SHOWER I. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO FILTERS, HOUSING, NOR ACCESSORIES. 2. PROVIDE FAN WITH MOTOR RATED TOGGLE SWITCH, VARI-GREEN DIAL MOUNTED ON EXTERIOR OF FAN HOUSING, AND VIBRATION ISOLATIORS. 3. FAN TO BE MONITORED VIA BACNET INTERFACE, BUT CONTROLLED VIA OCCUPANCY SENSOR.

					F	AN COIL U	NIT SCHED	ULE						
					Al	R		DX COOLING COIL				ELETRICAL		
MARK	MANUFACTURER	MODEL	TYPE	ASSOCIATED CONDENSING UNIT	AIRFLOW (CFM)	E.S.P. [IN WC]	OUTSIDE AIR [CFM]	TOTAL CAPACITY [BTU]	V	PH H	IZ	MCA [AMPS]	MOP [AMPS]	NOTES
FCU-UPS	LG ELECTRONICS	LSN363HLV3	DUCTLESS, WALL MOUNT	CU-UPS	1200	0.25	0	36000	208	1 6	0	3	15	
OTES:														
. NOMINAL			TURE OF 80°F DB / 67°F WB, OUTDOOR A TURE OF 70°F DB, OUTDOOR AIR TEMPE											

					COOLING	G DATA				ELETRICA	L		
MARK	MANUFACTURER	MODEL	LOCATION	HIGH AMBIENT OUTDOOR TEMP [°F]	TOTAL CAPACITY [MBH]	SENSIBLE CAPACITY [MBH]	AMBIENT DESIGN TEMP [°F]	٧	PH	HZ MCA [AMPS] MOP	[AMPS]	NOTES
CU-UPS	LG ELECTRONICS	LSU363HLV3	MECH YARD	105	36000	32000	55	208	1	60 1	7	25	

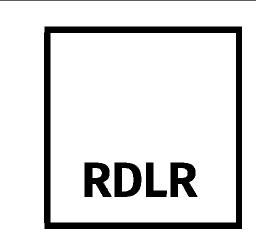
MARK	MANU.	MODEL	ТҮРЕ	NOMINAL FACE SIZE	MAX CFM	NECK SIZE	NOISE CRITERIA (MAX) NC	NOTES
С	TITUS	TMS	HIGH PERFORMANCE SQUARE CONE DIFFUSER	24 x 24	150 CFM	6"ø	25	
R1	TITUS	PAR	EGGCRATE RETURN GRILLE	24 x 24	500 CFM	12"/12"	25	
NOTES:								



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— STAINLESS STEEL STRAP

— SPIN-IN W/DAMPER AND

VINYL LINED FLEXIBLE DUCT. MAX LENGTH 5'-0" PER HAS STANDARD. SUPPORT AS SHOWN. SUPPORT FROM/BY GRID WIRES, PLENUM ROUTED PIPING, CONDUIT, ETC.

WILL NOT BE ACCEPTABLE.

- ROUTE CONDENSATE TO FLOOR DRAIN IN MECH ROOM

— WALL OR FLOOR

MOUNTED TYPE AIR

CONDITIONING UNIT

CONDENSATE PUMP

WITHIN UNIT CABINET

 SUCTION LINE TO BE INSULATED; INSULATION

25/50 FLAME/SMOKE RATING. EXTERIOR INSULATION TO HAVE ALUMINUM JACKET

INSIDE BUILDING TO HAVE

- INSTALL LINE SET ENTRY

PIPE SUPPORT

- TYP. FLEX.

UNIT MOUNTED DISCONNECT SWITCH WITH CONDUIT THROUGH CURB

- 1/2" MESH BIRDSCREEN

12" O.C. (MIN. 2 PER SIDE)

INSULATED GASKETED ROOF

FIRESTAT MOUNTED IN EXHAUST AIRSTREAM (WHERE SPECIFIED)

CURB. SECURE CURB TO

ON TOP OF CURB

STRUCTURE WITH APPROPRIATE FASTENERS 12" O.C. (MIN. 2 PER SIDE)

TRANSITION DUCT AS REQUIRED TO CONNECT TO FAN DAMPER TRAY

SECURE FAN TO CURB WITH 3/4" LONG SHEET METAL SCREWS

NAIL FLASHING INTO WOOD NAILER

CONNECTION

TYP. UNION AS REQ'D

BOX AND CAULK

PENETRATIONS

TYPICAL

EXTRACTOR

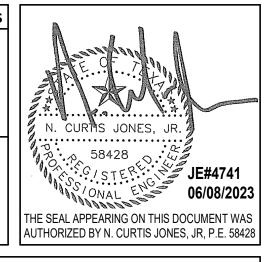


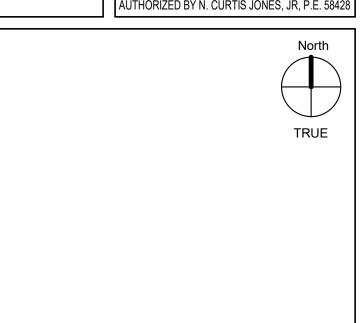
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DIRECTOF	₹
of	

HOUSTON AIRPORT SYSTEM

Drawing Status





As indicated

SHEET NAME:
MECHANICAL DETAILS AND SCHEDULES

NOTE:
PER MANUFACTURERS RECOMMENDATIONS
FOR SMALLER FANS (LESS THAN 12" DIAMETER
WHEEL) DAMPER SHALL BE LOCATED IN THE
DUCT UPSTREAM OF THE FAN

SUPPORT FROM

INSULATED

E3 TYPICAL DIFFUSER

(2) LOW VOLTAGE CONTROL WIRING BY HVAC CONTRACTOR.

WEATHERHOOD OVÉR REFRIGERANT LINES ENTRY.

P2600 OR EQUAL.

WITH GALVANIZED BOLTS.

DETAIL IS SCHEMATIC TO SHOW

REFER TO PLANS FOR ACTUAL

CONFIGURATION.

ROOF MOUNTED

CENTRIFUGAL EXHAUST FAN

MOTORIZED BACKDRAFT DAMPER. RE: SPECIFICATIONS

MINIMUM 14" ABOVE ROOF -

FLASHING AND COUNTER FLASH

INTO ROOFING MEMBRANE. RE:

ARCHITECTURAL ROOFING

ROOFCURB TO BE

DETAILS.

REQUIRED INSTALLATION FEATURES.

1) DISCONNECT SWITCH, WP, MOUNTED ON FREE-STANDING RACK - RE:

LIQUIDTIGHT FLEX CONDUIT WITH APPROVED FITTINGS. CLAMPS TO UNIT TO MINIMIZE STRAIN ON CONNECTOR (BY E.C.). MAX 48".

(4) LIQUID AND SUCTION REFRIGERANT LINES. SUPPORT ON GALVANIZED

UNISTRUT CHANNEL IF MORE THAT 24" FROM BUILDING. PROVIDE

 $(\ 5\)$ seal wall penetration neatly with construction sealant (by

HVAC CONTRACTOR). PROVIDE PIPE SLEVE. PROVIDE SHEET METAL

(6) COMPRESSOR/CONDENSING UNIT ON RIBBED NEOPRENE MOUNTING

PADS, LOAD NO GREATER THAN 25 PSI, AMBER/BOOTH CO. AMPAD TYPE NRC OR EQUAL. UNIT TO BE BOLTED TO EQUIPMENT SUPPORTS

4" CONCRETE PAD —

E2 DUCTLESS SPLIT SYSTEM A/C UNIT

PIPE CLAMP AND VIBRATION-ISOLATION CUSHION, UNISTRUT NO.

DIFFUSER

OVERHEAD STRUCTURE

SHEETMETAL SADDLE AND SUPPORT STRAP

E1 TYPICAL EXHAUST FAN - ROOF MOUNTED
NOT TO SCALE

SYMBOL LEGEND

SWITCH, SPST, 20A, 120/277V

- SWITCH, 20A, 120/277V, "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY
- DIMMER CONTROL SWITCH, 1000 WATT UNLESS OTHERWISE NOTED
- \$ 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

UNDERGROUND CONDUIT

RECEPTACLES AND OUTLETS

- DUPLEX WALL RECEPTACLE, NEMA 5-15R, 15A, 125V OR NEMA 5-20R, 20A, 125V, RE: SPECIFICATIONS, DOT INDICATES ABOVE COUNTER. WP DUPLEX WALL RECEPTACLE. "WP" DENOTES WEATHERPROOF, "TP" DENOTES SAFETY TYPE, "GFI" DENOTES GROUND FAULT
- PROTECTION, DOT INDICATES ABOVE COUNTER. FOURPLEX WALL RECEPTACLE. NEMA 5-15R, 15A, 125V.
- DOT INDICATES ABOVE COUNTER. SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED. DOT INDICATES ABOVE COUNTER.
- JUNCTION BOX
- 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/DATA FLOOR OUTLET
- FLOOR OUTLET
- RECEPTACLE FIRE RATED POKE THRU

ELECTRICAL EQUIPMENT

DISTRIBUTION PANEL

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

T TRANSFORMER

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 SIZE, "NF" DENOTES NON-FUSED.
- m MANUAL MOTOR STARTING WITH THERMAL OVERLOAD

FIRE ALARM

FACP FIRE ALARM CONTROL PANEL (FLUSH|SURFACE)

- CEILING SPEAKER/STROBE
- WALL SPEAKER/STROBE
- CEILING STROBE WALL STROBE
- SPEAKER
- MANUAL PULL STATION
- AREA SMOKE DETECTOR, "H" HEAT DETECTOR,
- "DD" DUCT DETECTOR. SPRINKLER FLOW SWITCH
- VALVE SUPERVISORY SWITCH
- NL NIGHT LIGHT

GENERAL ELECTRICAL NOTES:

2. GUARANTEE LABOR AND MATERIALS FOR 1 YEAR.

GENERAL NOTES:

1. 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.

3. 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. EQUIPMENT REQUIRING SERVICING MUST HAVE GFCI PROTECTION PER NEC 210.63. PROVIDE NEW BREAKERS IN EXISTING SPACES AS REQUIRED FOR THIS INSTALLATION. BREAKERS FOR ABANDONED CIRCUITS SHALL BE LABELED "SPARES".

4. REUSED ELECTRICAL EQUIPMENT, WIRING DEVICES, SIRING 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. 6. 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.

8. 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 INSURE ADEQUATE COVERAGE THROUGHOUT THE LEASE 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. 9. 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

10. ALL WORK SHALL COMPLY WITH THE FAA, LOCAL BUILDING, PLUMBING, AND MECHANICAL CODES, NFPA 90A, 70 AND ANY OTHER APPLICABLE CODES. ELECTRICAL WORK MUST COMPLY WITH NEC-2020, CITY ELECTRIC CODE, AND 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 RESTRICTIVE

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 WEEKENDS. 15. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS INDICATING THE CONFIGURATION OF THE _CONSTRUCTED.WORK ∖THE RED LINE AS-BUILT DRAWINGS SHALL BE AVAILABLE AND TRANSPARENT TO HAS ≺ RESIDENT ENGINEER AND HAS INSPECTOR FOR VERIFICATIONS. 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 $rac{1}{2}$ study infront of equipment. Where applicable, all receptacles on tables or bar area shall be ĞÊÇÎ PROTECTÊD. CONDÛJÎTS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION FITTING PER NEC. 20. 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.

NO AC (BX) OR MC CABLE ALLOWED. ALL GROUND RODS TO BE STAINLESS STEEL.

THESE COSTS IN HIS BID PROPOSAL.

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, INSULATION OR COVER(WALL OR CEILING).

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 - CONDUIT SHALL BE 3/4" 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. ALL CONDUIT CONNECTORS SHALL HAVE AN INSULATED THROAT BUSHING. 24. EQUIPMENT SHALL NOT BE PLACED IN SERVICE WITHOUT THE PROPER INSPECTIONS, DISCONNECTING

MEANS SHALL BE LOCKED OUT PREVENTING PREMATURE USE OF EQUIPMENT. 25. CONDUCTORS: A. MINIMUM WIRE SIZE FOR BRANCH CIRCUITS BE NO. 12 AWG COPPER.

A. NO. 14 AWG MAY BE USED FOR CONTROL CIRCUIT WIRING WHEN OVER CURRENT PROTECTION IS PROVIDED IN COMPLIANCE WITH THE APPLICABLE NECT NEPA AND JIC STANDARDS. 3 B. MINIMUM SIZE CONDUCTOR ON FIXTURE WHIPS IS NO. 12 AWG.

`B. `ALUMINUM WIRE SHALL BE USED ONLY FOR OVERHEAD SPANS FROM POLE TO POLE, POLE TO BUILDING, OR BUILDING TO BUILDING APPLICATIONS. C. 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. D. STRANDED CONDUCTORS SHALL BE USED FOR ALL MOTOR AND CONTROL CIRCUIT WIRING. E. CONDUCTORS FEEDING COMPUTER OUTLETS (OR IN CLOSE PROXIMITY TO A TELECOMMUNICATIONS OUTLET) SHALL HAVE A NEUTRAL ONE SIZE LARGER THAN THE PHASE CONDUCTOR. F. REQUIRED TORQUE TO TERMINALS IN BREAKERS 100A AND ABOVE MUST BE WITNESSED BY HAS/BSG ∖ ELECTRICAL INSPECTORS.{TÓRQUE SHALL BE RECORDED, DÓCUMENTED, SIĞNED AÑD DÂTÊD BY THE MASTER ELECTRICIAN RESPONSIBLE PULLING THE PERMIT. THE TORQUE TOOL SHALL BEE RECENTLY `G. TOROUNG OF SWITCHBOARDS. MAIN DISTRIBUTION PANELS AND BREAKERS 100AMP'S AND ABOVE -`

READING WITH A CURRENT CALIBRATION TORQUE WRENCH AND SHALL BE WITNESSED BY ELECTRICAL INSPECTORS. COPIES OF THESE READING WILL BE SENT TO BSG TO BE KEPT ON FILE. H. CONDUCT COLOR CODING SHALL BE CONSISTENT ALONG THE ENTIRE LENGTH OF A CIRCUIT. COLOR ~CODING SHALL BE AS FOLLOWS;~~~ 26. TRANSFORMS AND PDU EQUIPMENT SHALL BE MOUNTED ON 4" CONCRETER PAD AND 6" EXTRA ALL AROUND THE EQUIPMENT SIZE.

208Y / 120V, 3Ø, 4W 480Y / 277V, 3Ø, 4W 240Y / 120V, 1Ø, 3W AØ - Brown AØ - Black AØ - Black CØ - Red BØ - Purple BØ - Red N - White CØ - Blue CØ - Yellow Grnd - Bare N - Gray N - White Iso Grnd - Green Grnd - Bare Grnd - Bare Iso Grnd - Green Iso Grnd - Green

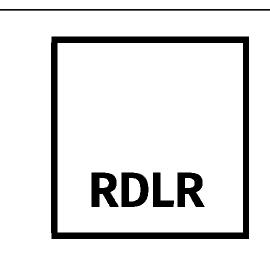


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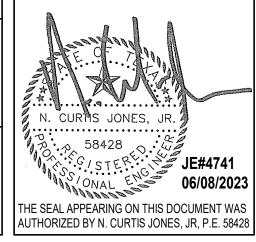


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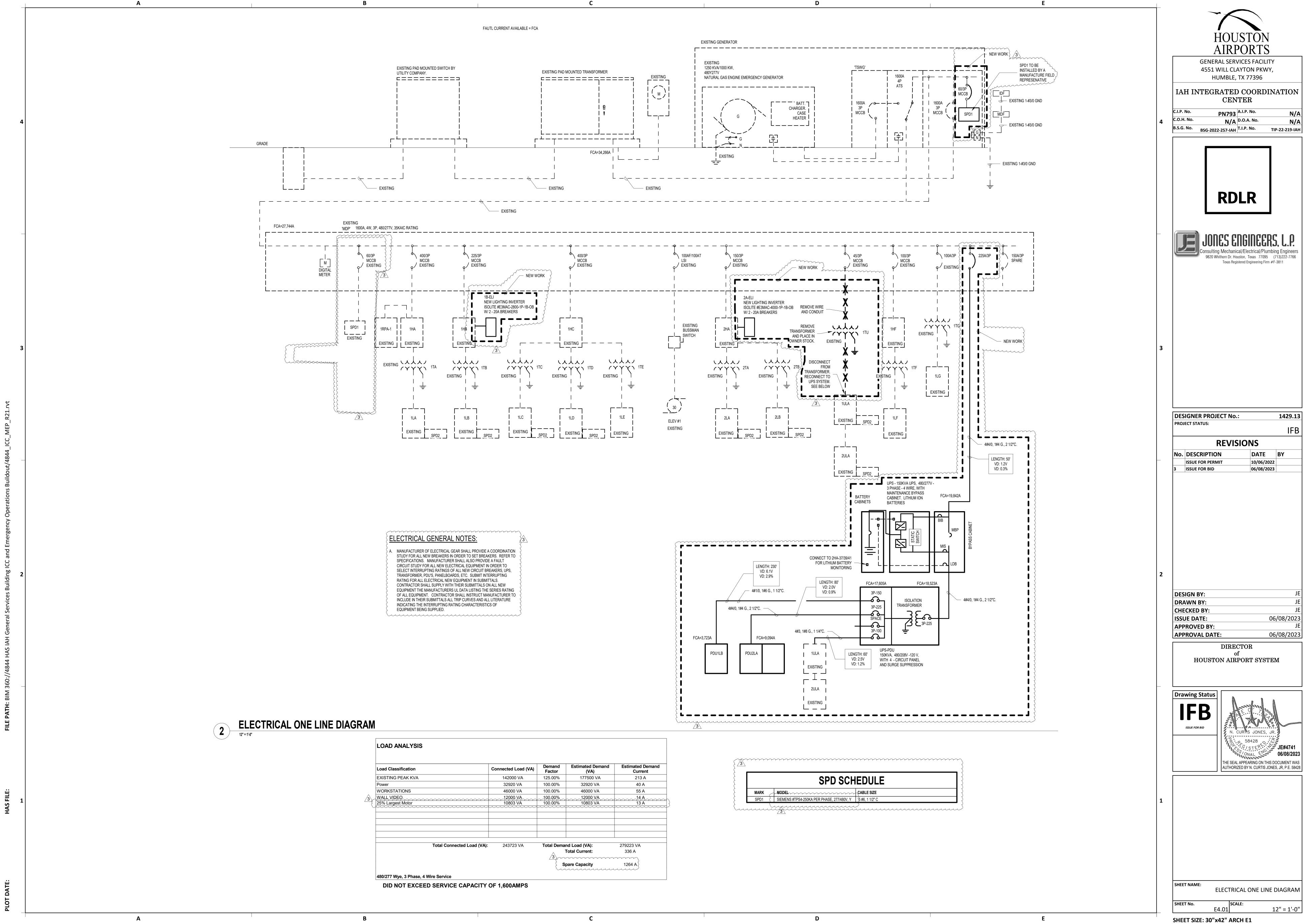
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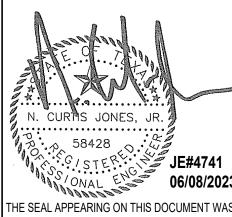


SHEET NAME:
ELECTRICAL ABBREVIATIONS, LEGENDS, AND





06/08/2023



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

ELECTRICAL ONE LINE DIAGRAM

LOCATION: ELECTRICAL 155 A.I.C. RATING: 65000 VOLTS: 480/277 Wye SUPPLY FROM: MAINS TYPE: MLO PHASES: 3 MOUNTING: SURFACE WIRES: 4 MAINS RATING: 225 A **ENCLOSURE**: Type 1 MCB RATING: CIRCUIT DESCRIPTION 1 EXISTING LIGHTING LEVEL 1 OFFICE 3 EXISTING LIGHTING LEVEL 1 OFFICE 5 EXISTING LIGHTING SOUTH CANOPY 7 EXISTING LIGHTING SOUTH STAIR 9 EXISTING ACCU-9 15 EXISTING ACCU-9 21 EXISTING ACCU-7 27 EXISTING ACCU-7 33 EXISTING OACU-3 39 SPARE 41 SPARE LOAD CLASSIFICATION CONNECTED LOAD **DEMAND FACTOR ESTIMATED DEMAND** PANEL TOTALS 89710 VA 100.00% 89710 VA TOTAL CONN. LOAD: 131493 VA 36735 VA 125.00% 45919 VA Existing Load 4270 VA 125.00% 5338 VA TOTAL EST. DEMAND: 141939 VA 973 VA 778 VA 125.00% TOTAL CONN.: 158 A Lighting - Exterior TOTAL EST. DEMAND: 171 A DID NOT EXCEED PANEL CAPACITY OF 225AMPS

EXISTING

BRANCH PANEL: 1HB

	BRANCH PANEL: 2RPA			E	XISTI	NG										
	LOCATION: ELECTRICA SUPPLY FROM: MOUNTING: SURFACE ENCLOSURE: Type 1	_ 214				I	VOLTS: PHASES: WIRES:	3	Wye					A.I.C. RATING: 65000 MAINS TYPE: MCB MAINS RATING: 225 A MCB RATING: 150 A		
NOTES:																
СКТ	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES		A		3	С		POLES	TRIP	WIRE	CIRCUIT	DESCRIPTION	CK
1	EXISTING LIGHTING 165-9		20 A	1	1258						1	20 A		EXISTING LIGHTING LEVI		2
3	EXISTING LIGHTING 165-23		20 A	1	1200		1621 VA	128 VA			1	20 A		EXISTING LIGHTING EAS		4
5	EXISTING LIGHTING LEVEL 2B OFFICE		20 A	1			1.2. 77		1015 VA	2825	3	30 A		EXISTING OAHU-3	2.1	6
7	EXISTING LIGHTING 2B CORRIDOR		20 A	1	370	0 VA								-		8
9	EXISTING LIGHTING 165-63		20 A	1			1628 VA	0 VA								10
11	NEW LIGHTING CIRCUIT	#12	20 A	1					2419 VA	100	1	20 A		EXISTING 2RPA		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		16
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		20
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		SPARE		24
25	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE		26
27	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE		28
29	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE		30
31	SPARE		20 A	1	0 VA	11349 VA					3	70 A		EXISTING 2TA		32
33	SPARE		20 A	1			0 VA	14952								34
35	SPARE		20 A	1	445	20400144			0 VA	1624			-			36
37	LITHIUM BATTERY MONITORING	#12	20 A	3	415	30192 VA		0.1/4			3	70 A		EXISTING 2TB		38
39	-						0 VA	0 VA								40
41					4.4	140 \/A	4020	0.1/4	0 VA	0 VA			-			42
				AL LOAD: AL AMPS:		140 VA 174 A	1832	S A	48033 188							
LEGENI):		101	AL AIIII O.					100							
LOAD C	LASSIFICATION		CONNI	ECTED LO	AD	DEM	AND FAC	TOR	ESTIN	MATED [DEMAND			PANEL	TOTALS	
Existing	Load			0192 VA			125.00%			37740 \						
HVAC				0926 VA			100.00%			10926 \				TOTAL CONN. LOAD:		
Heating				8254 VA			100.00%			28254 \				TOTAL EST. DEMAND:		
_ighting				8995 VA			125.00%			11244 \				TOTAL CONN.:		
Other				100 VA			100.00%			100 V				TOTAL EST. DEMAND:	132 A	
Power				415 VA			100.00%			415 V/						
Recepta			3	1620 VA			65.81%			20810 \	/A					

NOTES:	BRANCH PANEL: 1ULA LOCATION: SUPPLY FROM: UPS-PDU MOUNTING: SURFACE ENCLOSURE: Type 1					VOLTS PHASES WIRES		Vye					A.I.C. RATING: 1 MAINS TYPE: N MAINS RATING: 1 MCB RATING: 1	MCB 100 A	
CKT	CIRCUIT DESCRIPTION	WIRE		POLES	Α		В	С		POLES	TRIP	WIRE		IRCUIT DESCRIPTION	СКТ
1	EXISTING MDP 130		30 A		2700 0 VA					1	20 A		SPARE		2
3	EXISTING MDP 130		20 A	1		1000 VA	0 VA	1000 : //	0.17	1	20 A		SPARE		4
5	EXISTING MDP 130		20 A	1	4000 0111			1000 VA	U VA	1	20 A	-	SPARE		6
7	EXISTING MDP 130		20 A	1	1000 0 VA	4000) (4	0.)/4			1	20 A	-	SPARE		8
9	EXISTING MDP 130		20 A	1		1000 VA	0 VA	4000 \ / A	0 \ / A	1	20 A		SPARE		10
11	EXISTING MDP 130		30 A	2	0.1/4 2700.1//			4680 VA	U VA	1	20 A	-	SPARE	OLU A	12
13	 CDADE				0 VA 3700 VA		0700 \/A			3	100 A		EXISTING PANEL	. 20LA	14
15 17	SPARE SPARE		20 A 20 A	1		0 VA	2700 VA		1000			-			16 18
19	SPARE		20 A	1	0 VA 0 VA			UVA	1000	3	 30 A		EXISTING SPD2		20
21	SPARE		20 A	1	O VA O VA	0 VA	0 VA						EXISTING SPD2		22
23	SPARE		20 A	1		0 1/1	UVA	0 VA	0 VA						24
	OF AIRE			AL LOAD:	7400 VA	470	0 VA	6680							23
				AL AMPS:	64 A		9 A	58 <i>F</i>		l					
	: LASSIFICATION			E CTED LO . 3780 VA	AD DE	MAND FA			ATED (18780 \	DEMAND				PANEL TOTALS	
Power			10	DIOU VA		100.00%			10700 \	V.A.			TOTAL CONN	. LOAD : 18780 VA	
														EMAND: 18780 VA	
														CONN.: 52 A	
													TOTAL EST. DE		
IOTES:															

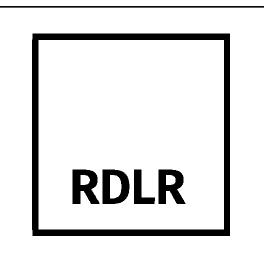
OTES:	BRANCH PANEL: 2ULA LOCATION: IDF 213 SUPPLY FROM: 1ULA MOUNTING: SURFACE ENCLOSURE: Type 1		Γ				VOLTS: PHASES: WIRES:		Wye					A.I.C. RATING: 10000 MAINS TYPE: MCB MAINS RATING: 100 A MCB RATING: 100 A		
CKT	CIRCUIT DESCRIPTION	WIDE	TRIP	POLES		A		В	С		POLES	TRIP	WIRE	CIPCUIT	DESCRIPTION	СКТ
	EXISTING MDF		20 A	1	1000	0 VA					1	20 A		SPARE	DECORAL FION	2
	EXISTING MDF		30 A	1		3 771	2700 VA	0 VA			1	20 A		SPARE		4
	EXISTING MDF		20 A	1			2. 33 171	, ,,,	1000 VA	0 VA	1	20 A		SPARE		6
	EXISTING MDF	-	30 A	1	2700	0 VA					1	20 A		SPARE		8
	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		16
17	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE		18
19	SPARE		20 A	1	0 VA	0 VA					3	30 A		EXISTING SPD2		20
21	SPARE		20 A	1			0 VA	0 VA			-					22
23	SPARE	-	20 A	1					0 VA	0 VA	1					24
				AL LOAD:		00 VA		0 VA	1000							
EGEND:	ASSIFICATION			AL AMPS:		33 A	AAND FAC	5 A	8 A		DEMAND			PANEI	TOTALS	
ower	AGE TO ATTOM			400 VA	., \D	DEN	100.00%		20111	7400 V				IANLL	IOIALO	
O 1101				100 VA			100.0070			1-100 V	/ \			TOTAL CONN. LOAD	: 7400 VA	
														TOTAL EST. DEMAND		
														TOTAL CONN.		
														TOTAL EST. DEMAND		
OTES:																

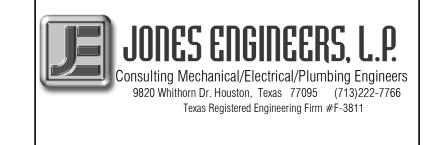


GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. C.O.H. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

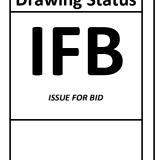


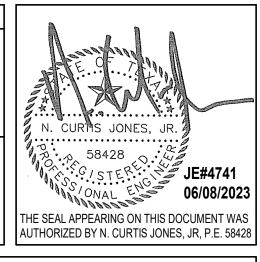


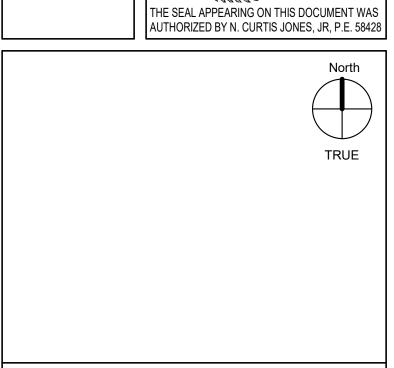
DES	IGNER PROJECT No.	•	1429.13
PROJ	ECT STATUS:		IFB
			ILD
	REVIS	SIONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
3	ISSUE FOR BID	06/08/2023	

DESIGN BY:	JE
DRAWN BY:	JE
CHECKED BY:	JE
ISSUE DATE:	06/08/2023
APPROVED BY:	JE
APPROVAL DATE:	06/08/2023

DIRECTOR HOUSTON AIRPORT SYSTEM







ELECTRICAL SCHEDULES

-- 20 A 1 0 VA 0 VA 0 VA 2084... 2 20 A -- EXISTING FCU-18,20
-- 20 A 1 0 VA 1166 VA 2 2 20 A -- EXISTING FCU-24,26
-- 20 A 1 0 VA 6240 VA 2 2 30 A -- EXISTING ACCU-2
-- 20 A 1 1 0 VA 6240 VA 2 2 30 A -- EXISTING COOKTOP
-- 20 A 1 1 180... 0 VA 1 180 VA 1 1 20 A -- EXISTING GAS WATER HEATER
-- 20 A 1 0 VA 180 VA 1127... 1 20 A -- EXISTING CIRCLII ATION PLIMP 33 SPARE 35 EXISTING RR 162 REC 37 EXISTING COPIER 39 EXISTING CONFERENCE 143 REC 41 EXISTING EXTERIOR REC 43 EXISTING PROJECTOR CONF 143 45 EXISTING PROJECTOR CONF 143 47 BREAK ROOM REF. 148 49 BREAK ROOM MICROWAVE 148 51 BREAK ROOM DISHWASHER 148 53 RECEPTACLE 148 55 BREAK ROOM MICROWAVE 148 57 SPARE 59 SPARE **TOTAL AMPS:** 140 A 59 A LEGEND: PANEL TOTALS LOAD CLASSIFICATION CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND 10719 VA 10719 VA 100.00% 1876 VA 100.00% 1876 VA TOTAL CONN. LOAD: 36462 VA 23867 VA 70.95% TOTAL EST. DEMAND: 29529 VA 16934 VA Receptacle TOTAL CONN.: 101 A TOTAL EST. DEMAND: 82 A DID NOT EXCEED PANEL CAPACITY OF 150AMPS **BRANCH PANEL: 2LB** EXISTING **VOLTS**: 120/208 Wye **LOCATION:** ELECTRICAL 202 **A.I.C. RATING:** 10000 MAINS TYPE: MCB SUPPLY FROM: PHASES: 3 MOUNTING: SURFACE WIRES: 4 MAINS RATING: 225 A ENCLOSURE: Type 1 MCB RATING: 150 A C POLES TRIP WIRE #12 20 A 1 540... 2372 VA 2 2 20 A -- EXISTING FCU 20,33,34,35 #12 20 A 1 540 VA 0 VA -- -- -- --**RECEPTACLES 240** 3 RECEPTACLES 240 540 VA 1872... 2 20 A -- EXISTING FCU 51 5 RECEPTACLES 240 **#12** 20 A 1 - 0. 7 EXISTING LEVEL 2B CORRIDOR REC 9 SPARE 11 EXISTING LEVEL 2B COPIER 13 EXISTING LEVEL 2B OFFICE REC 17 EXISTING LEVEL 2B OFFICE REC 19 SPARE 21 EXISTING LEVEL 2B SYS FURN 23 EXISTING LEVEL 2B SYS FURN 25 EXISTING LEVEL 2B SYS FURN 27 EXISTING LEVEL 2B MICROWAVE -- 20 A 1 600 VA 1000... 1 20 A -- EXISTING FSD -- 20 A 1 900... 1000 VA 1000 VA 1 20 A -- EXISTING FSD
-- 20 A 1 900 VA 1000 VA 1 20 A -- EXISTING FSD
-- 20 A 1 900 VA 1000 VA 1 20 A -- EXISTING FSD
-- 20 A 1 1000 VA 1000... 1 20 A -- EXISTING FSD
-- 20 A 1 0 VA 0 VA 3 30 A -- EXISTING SPD2
-- 20 A 1 1000 VA 29 EXISTING LEVEL 2B ICE MACHINE 31 EXISTING LEVEL 2B REFRIG 33 EXISTING LEVEL 2B MICROWAVE 35 EXISTING LEVEL 2B SYS FURN 37 SPARE 39 SPARE 40 41 EXISTING LEVEL 2B SYS FURN #12 20 A 1 800... 189 VA 2 20 A -- EXISTING FCU #12 20 A 1 800 VA 0 VA -- 3 --43 WORKSTATIONS 240 TABLE 45 WORKSTATIONS 240 TABLE 47 WORKSTATIONS 240 TABLE 49 WORKSTATIONS 240 TABLE 51 WORKSTATIONS 240 TABLE #12 20 A 1 800 VA 800 VA 800 VA 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE
#12 20 A 1 800... 800 VA 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE
#12 20 A 1 800... 800 VA 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE
#12 20 A 1 800 VA 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE 53 WORKSTATIONS 240 TABLE 55 WORKSTATIONS 240 TABLE 57 WORKSTATIONS 240 TABLE 59 WORKSTATIONS 240 TABLE #12 20 A 1 800... 800 VA 800... 1 20 A #10 WORKSTATIONS 240 TABLE
61 WORKSTATIONS 240 TABLE #12 20 A 1 800... 800 VA 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE
63 WORKSTATIONS 240 TABLE #12 20 A 1 800 VA 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE
65 WORKSTATIONS 240 TABLE #12 20 A 1 800 VA 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE
67 RECEPTACLE QUIT ROOM 242 #12 20 A 1 180... 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE
69 RECEPTACLE QUIT ROOM 242 #12 20 A 1 180 VA 800 VA 1 20 A #10 WORKSTATIONS 240 TABLE
71 SPARE

TOTAL LOAD: 16888 VA 13288 VA 15052 VA
TOTAL LOAD: 16888 VA 13288 VA 15052 VA
TOTAL LOAD: 143 A 111 A 128 A #12 20 A 1 800 VA 800... 1 20 A #10 WORKSTATIONS 240 TABLE **TOTAL AMPS:** 143 A 111 A 128 A LOAD CLASSIFICATION CONNECTED LOAD DEMAND FACTOR **ESTIMATED DEMAND** PANEL TOTALS 12408 VA 100.00% 12408 VA TOTAL CONN. LOAD: 45228 VA 540 VA 100.00% 540 VA 12360 VA 90.45% 11180 VA TOTAL EST. DEMAND: 44048 VA 720 VA 100.00% 720 VA TOTAL CONN.: 126 A TOTAL EST. DEMAND: 122 A DID NOT EXCEED PANEL CAPACITY OF 150AMPS

BRANCH PANEL: 1LB

CIRCUIT DESCRIPTION

1 EXISTING EXTERIOR REC

5 EXISTING LEVEL 1B EDF

11 SPARE

13 SPARE

15 SPARE

19 SPARE

21 SPARE 23 SPARE

25 SPARE

7 EXISTING LEVEL 1B RR REC

3 EXISTING LEVEL 1B OFFICE REG

9 EXISTING LEVEL 1B CORR REC

27 EXISTING LEVEL 1B OFFICE REC

31 EXISTING LEVEL 1B AV CABINET

29 EXISTING OPEN OFFICE REC

SUPPLY FROM:

LOCATION: ELECTRICAL 155

MOUNTING: SURFACE

ENCLOSURE: Type 1

EXISTING

WIRE TRIP POLES

-- 20 A 1 720... 360 VA

VOLTS: 120/208 Wye

PHASES: 3

WIRES: 4

A.I.C. RATING: 10000

MAINS TYPE: MCB

MAINS RATING: 200 A

POLES TRIP WIRE

-- 20 A 1 720... 360 VA 1 540 VA 180 VA 1 20 A -- EXISTING BREAK RM 161 REC

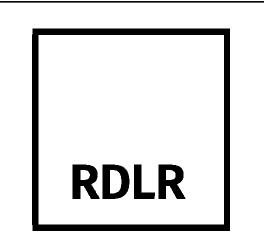
MCB RATING: 150 A

BRANCH PANEL: 2LA $\stackrel{/3}{\longrightarrow}$ **EXISTING LOCATION**: ELECTRICAL 214 **A.I.C. RATING:** 10000 **VOLTS:** 120/208 Wye SUPPLY FROM: 2TA PHASES: 3 MAINS TYPE: MCB MOUNTING: SURFACE MAINS RATING: 225 A **ENCLOSURE**: Type 1 MCB RATING: 150 A NOTES: POLES TRIP WIRE CIRCUIT DESCRIPTION 1 EXISTING OPEN OFFICE REC -- 20 A 1 1360... 897 VA 2 20 A -- EXISTING FCU-36,37,38,29,41 / BS-4a.4b _- 20 A 1 360 VA 0 VA -- -- -- --3 EXISTING OPEN OFFICE REC 5 EXISTING OPEN OFFICE REC 7 EXISTING OPEN OFFICE REC 9 EXISTING OPEN OFFICE REC 11 EXISTING OPEN OFFICE REC 13 EXISTING CORRIDOR REC 15 EXISTING FURNITURE JBOX 17 EXISTING FURNITURE JBOX -- 20 A 1 900... 0 VA 696 VA 1 20 A -- EXISTING EF-5
-- 20 A 1 1080 ... 500 VA 1 20 A -- EXISTING BREAK ROOM REC
-- 20 A 1 1080... 500 VA 1 20 A -- EXISTING PROJECTOR
-- 20 A 1 1080... 500 VA 1 20 A -- EXISTING PROJECTOR
-- 20 A 1 20 A -- EXISTING PROJECTOR
-- 20 A 1 20 A -- EXISTING PROJECTOR
-- 20 A 1 360... 1000 VA 1 20 A -- EXISTING RECEPTION-4 104-4 REC
-- 20 A 1 900 VA 80 VA 1 20 A -- EXISTING UNIT HEATER 19 EXISTING REFRIGERATOR 21 EXISTING LEVEL 2A BRK RM REC 23 EXISTING LEVEL 2A CORRIDOR REC 25 EXISTING LEVEL 21 OFFICE REC 27 EXISTING LEVEL 21 OFFICE REC 29 EXISTING LEVEL 21 OFFICE REC 31 EXISTING LEVEL 21 OFFICE REC 33 EXISTING LEVEL 21 OFFICE REC 35 EXISTING OPS REC 37 EXISTING COPY 224 REC 39 EXISTING MICROWAVE 41 EXISTING ICE MACHINE 43 EXISTING AV CABINET 47 SPARE 49 SPARE 53 SPARE 55 SPARE 57 SPARE 59 SPARE 61 SPARE 65 SPARE 67 SPARE 69 SPARE 71 SPARE **TOTAL AMPS:** 95 A 129 A 140 A LEGEND: LOAD CLASSIFICATION CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND PANEL TOTALS 10926 VA 100.00% 10926 VA 31620 VA 65.81% 20810 VA TOTAL CONN. LOAD: 42546 VA Receptacle TOTAL EST. DEMAND: 31736 VA TOTAL CONN.: 118 A TOTAL EST. DEMAND: 88 A DID NOT EXCEED PANEL CAPACITY OF 150AMPS

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, **HUMBLE, TX 77396**

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. C.O.H. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



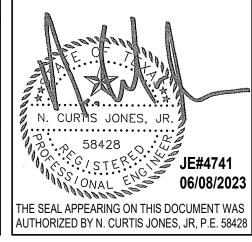


DES	IGNER PROJECT No.	•	1429.13
PROJ	ECT STATUS:		IFB
	REVIS	SIONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
3	ISSUE FOR BID	06/08/2023	

DESIGN BY: DRAWN BY: CHECKED BY: 06/08/2023 ISSUE DATE: **APPROVED BY:** APPROVAL DATE: 06/08/2023

> DIRECTOR HOUSTON AIRPORT SYSTEM

| Drawing Status | **IFB**



ELECTRICAL SCHEDULES

ENCLOSURE: Type 1 MCB RATING: 150 A CKT CIRCUIT DESCRIPTION C POLES TRIP WIRE 1 WORKSTATION 143A 3 WORKSTATION 143A 5 WORKSTATION 143A 7 WORKSTATION 143A 9 WALL VIDEO 143A 11 WALL VIDEO 143A 13 WORKSTATIONS 143A 15 PROJECTOR 143A 17 RECEPTACLES 152 19 RECEPTACLES 152 21 RECEPTACLES 23 SPARE 25 SPARE 27 SPARE 29 SPARE
31 SPARE
33 SPARE 35 SPARE 37 SPARE 39 SPARE 41 SPARE LOAD CLASSIFICATION CONNECTED LOAD **ESTIMATED DEMAND** DEMAND FACTOR PANEL TOTALS 6940 VA 100.00% 6940 VA TOTAL CONN. LOAD: 20940 VA WORKSTATIONS 10000 VA 100.00% 10000 VA WALL VIDEO 4000 VA 100.00% 4000 VA TOTAL EST. DEMAND: 20940 VA TOTAL CONN.: 58 A TOTAL EST. DEMAND: 58 A

VOLTS: 120/208 Wye

A.I.C. RATING 14000 3

MAINS RATING: 150 A

BRANCH PANEL: PDU1LB

LOCATION: ELECTRICAL 155

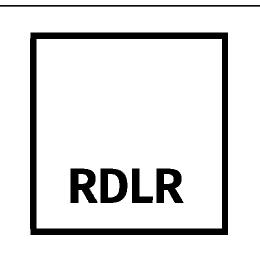
MOUNTING: SURFACE

NOTES:	BRANCH PANEL: PDU2I LOCATION: ELECTRICAL SUPPLY FROM: UPS-PDU MOUNTING: SURFACE ENCLOSURE: Type 1					į	VOLTS: PHASES: WIRES:		Wye				1	A.I.C. RATING: 14000 MAINS TYPE: MCB MAINS RATING: 225 A MCB RATING: 225 A	
CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES		A	ı	В	С		POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	C
1	WORKSTATIONS 240	#12	20 A	1	1500	1500 VA					1	20 A	#12	WORKSTATIONS 240	
3	WORKSTATIONS 240	#12	20 A	1			1500 VA	1500 VA			1	20 A		WORKSTATIONS 240	
5	WORKSTATIONS 240	#12	20 A	1					1500 VA	1500	1	20 A		WORKSTATIONS 240	
7	WORKSTATIONS 240	#12	20 A	1	1500	1500 VA	4500)	4500111			1	20 A	#12	WORKSTATIONS 240	
9	WORKSTATIONS 240	#12	20 A	1			1500 VA	1500 VA	4500 \ / 4	4500	1	20 A	#12	WORKSTATIONS 240	
11	WORKSTATIONS 240	#12	20 A	1	1500	1500 \ / ^			1500 VA	1500	1	20 A		WORKSTATIONS 240	
13	WORKSTATIONS 240	#12	20 A	1	1500	1500 VA	4500 \/A	1500 \ / \			1	20 A	#12	WORKSTATIONS 240	
15	WORKSTATIONS 240	#12	20 A	1			1500 VA	1500 VA	1500 \/A	1500	1	20 A	#12	WORKSTATIONS 240	
17 19	WORKSTATIONS 240 WALL VIDEO 240	#12 #12	20 A 20 A	1	1000	1000 VA			1500 VA	1000	1	20 A 20 A	#12	WORKSTATIONS 240 WALL VIDEO 240	
21	WALL VIDEO 240 WALL VIDEO 240	#12	20 A	1	1000	1000 VA	1000 \/A	1000 VA			1	20 A		WALL VIDEO 240	+
23	WALL VIDEO 240	#12	20 A	1			1000 VA	1000 VA	1000 VA	1000	1	20 A			
25	WORKSTATIONS 247	#12	20 A	1	1500	1500 VA			.555 VA	. 330	1	20 A	#12	WORKSTATIONS 247	
27	WORKSTATIONS 247	#12	20 A	1	. 300	.500 7/1	1500 VA	1500 VA			1	20 A		WORKSTATIONS 247	
29	WORKSTATIONS 247	#12	20 A	1				.300 1/1	1500 VA	1500	1	20 A	#12	WORKSTATIONS 247	
31	WALL VIDEO 247	#12	20 A	1	1000	1080 VA					1	20 A		RECEPTACLES CONFERENCE AND TRAINING 250	
	WALL VIDEO 247		20 A	1			1000 VA	540 VA			1	20 A		RECEPTACLES COMM SUPV/ADMIN AREA 251	
35	RECEPTACLES 240	#12	20 A	1					720 VA	1620	1	20 A		RECEPTACLES 243,244,245,246	
37	RECEPTACLES 240, 247, 249	#12	20 A	1	540	540 VA					1	20 A	#12	RECEPTACLES 240	
39	RECEPTACLES 251,253	#12	20 A	1			1440 VA	180 VA			1	20 A	#12	RECEPTACLES 242	
41	RECEPTACLES COMM SUPV/ADMIN AREA 251	#12	20 A	1					540 VA	0 VA	1	20 A		SPARE	
43	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	
45	SPARE	-	20 A	1			0 VA	0 VA			1	20 A		SPARE	
47	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	
49	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	
51	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	
53	SPARE	-	20 A	1					0 VA	0 VA	1	20 A		SPARE	
55	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	
57	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	
59	SPARE	-	20 A	1	4-4	00.174	4-10	20.144	0 VA	0 VA	1	20 A		SPARE	
				AL LOAD: AL AMPS:		60 VA I3 A		3 A	16880 141						
EGEND):		. 3.1	_ , 01	•			-	2.11						
OAD CI	LASSIFICATION		CONNE	CTED LO	AD	DEM	AND FAC	TOR	ESTIN	IATED I	DEMAND			PANEL TOTALS	
Power				200 VA			100.00%			7200 V					
	TATIONS			6000 VA			100.00%			36000 \				TOTAL CONN. LOAD: 51200 VA	
VALL VII	DEO		8	000 VA			100.00%			8000 V	'A			TOTAL EST. DEMAND: 51200 VA	
				_										TOTAL CONN.: 142 A	
														TOTAL EST. DEMAND: 142 A	

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





DES	IGNER PROJECT No	.:	1429.13
PROJ	ECT STATUS:		IFB
	REVIS	SIONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
3	ISSUE FOR BID	06/08/2023	

II.

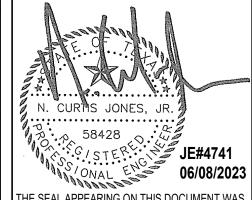
DESIGN BY:	JE
DRAWN BY:	JE
CHECKED BY:	JI
ISSUE DATE:	06/08/2023
APPROVED BY:	JI
APPROVAL DATE:	06/08/2023

PROVAL DATE:	06/08/20
DIRECTOR	
\mathbf{of}	
TIOTIOMONI ATDDODM OX	ZCIDITALIE

DIRECTOR
\mathbf{of}
HOUSTON AIRPORT SYSTEM

HOUSTON AIRPORT SYSTEM





	N. CUR'IS JONES, JR.
	JE#4741
	06/08/2023
	THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR, P.E. 58428
_	

	THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR, P.E. 5842
1	
	CHEET NAME.

ELECTRICAL SCHEDULES

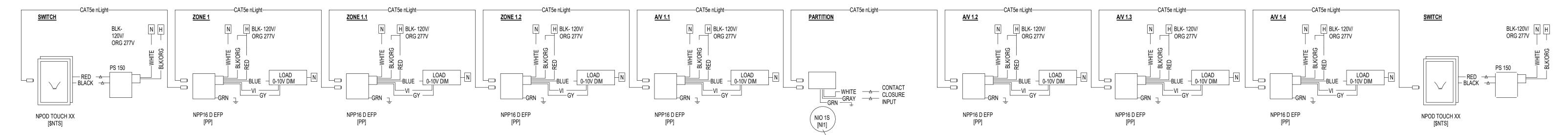
	LIGHT FIXTURE SCHEDULE							
	Mark	Description	Mounting	Lamps/ Watts	Туре	Volts	Lens	Remarks
ہم	A	LSI,#\$LI24-LED-HQ-NW-UE-XX	RECESSED	59	_LED_		~~~~	
<u> </u>	В	HE WILLIAMS #6DR-TL-L15-8-40-DIM-UNV-O-W-OF-CS-MWT-N-F1	RECESSED	13.8	LED	UNV		
3	BE	HE WILLIAMS #6DR-TL-L15-8-40-EM/10W-DIM-UNV-O-W-OF-CS-MWT-N-F1	RECESSED	13.8	LED	UNV		WITH 90 MINUTE BATTER BACKUP
{	, , , , C		RECESSED	13.8	LED	UNV		
9	X	NEW EXIT LIGHT TO MATCH EXISTING	SURFACE	2.5	LED	UNV		WITH 90 MINUTE BATTER BACKUP

1. WHEN PARTITION IS OPEN NPOD TOUCH STATION FUNCTION AS 3 WAY. WHEN PARTITION IS CLODE NPOD TOUCH STATIONS FUNCTION INDEPENDENT CONTROLLING ONLY THE ROOM IN WHICH THEY ARE LOCATED.

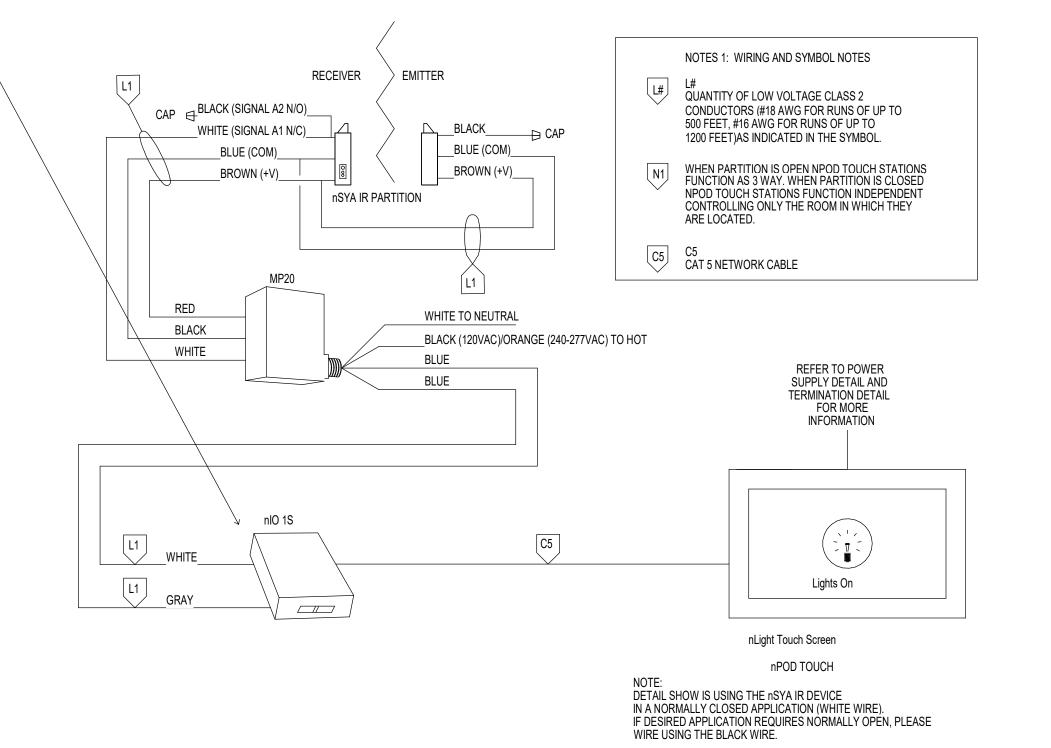
2. OCCUPANCY CONTROL ZONE: REFER TO '3', THIS SHEET.

3. VACANCY MODE - AUTO ON TO 50%

1 LIGHTING CONTROLS - SEQUENCE



LIGHTING CONTROLS - EMERGENCY OPERATIONS CENTER 143A/143B



PARTITION SENSOR

2 LIGHTING CONTROLS - DETAILS

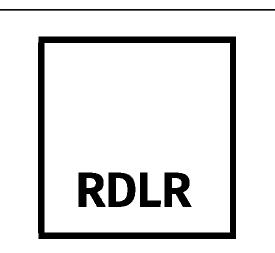
N.T.S.

HOUSTON AIRPORTS

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

C.I.P. No. PN793 A.I.P. No. N/A
C.O.H. No. N/A D.O.A. No. N/A
B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



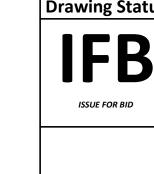


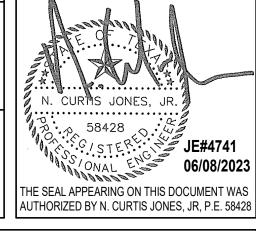
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PROJ	ECT STATUS:						
REVISIONS							
No.	DESCRIPTION	DATE	BY				
	ISSUE FOR PERMIT	10/06/2022					
3	ISSUE FOR BID	06/08/2023					

DESIGN BY:	JE
DRAWN BY:	JE
CHECKED BY:	JE
ISSUE DATE:	06/08/2023
APPROVED BY:	JE
ADDDOVAL DATE.	06/00/2022

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Drawing Status





	AUT	IIONZEDI	51 N. CONTIS JONES, JIN, F.E. 30420
HEET NAME:			ELECTRICAL DETAILS
HEET No.	F5.04	SCALE:	N.T.S.

SHEET SIZE: 30"x42" ARCH E1

B C

OVERALL ELECTRICAL LIGHTING PLAN - LEVEL 2

OVERALL ELECTRICAL LIGHTING PLAN - LEVEL 1

1/16" = 1'-0"

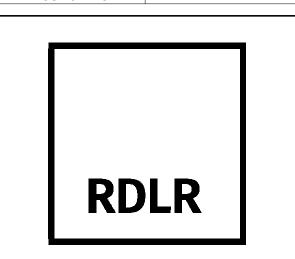
HOUSTON AIRPORTS

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

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C.I.P. No. PN793 A.I.P. No. N/A

C.O.H. No. N/A D.O.A. No. N/
B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IA



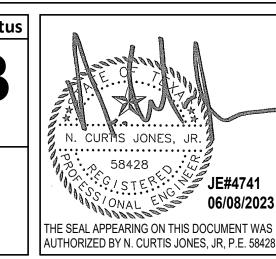


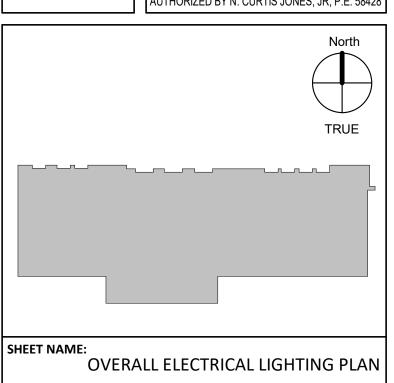
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PROJ	ECT STATUS:		IFB
	REVIS	SIONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
3	ISSUE FOR BID	06/08/2023	

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CHECKED BY:	JE
ISSUE DATE:	06/08/2023
APPROVED BY:	JE
APPROVAL DATE:	06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

IFB

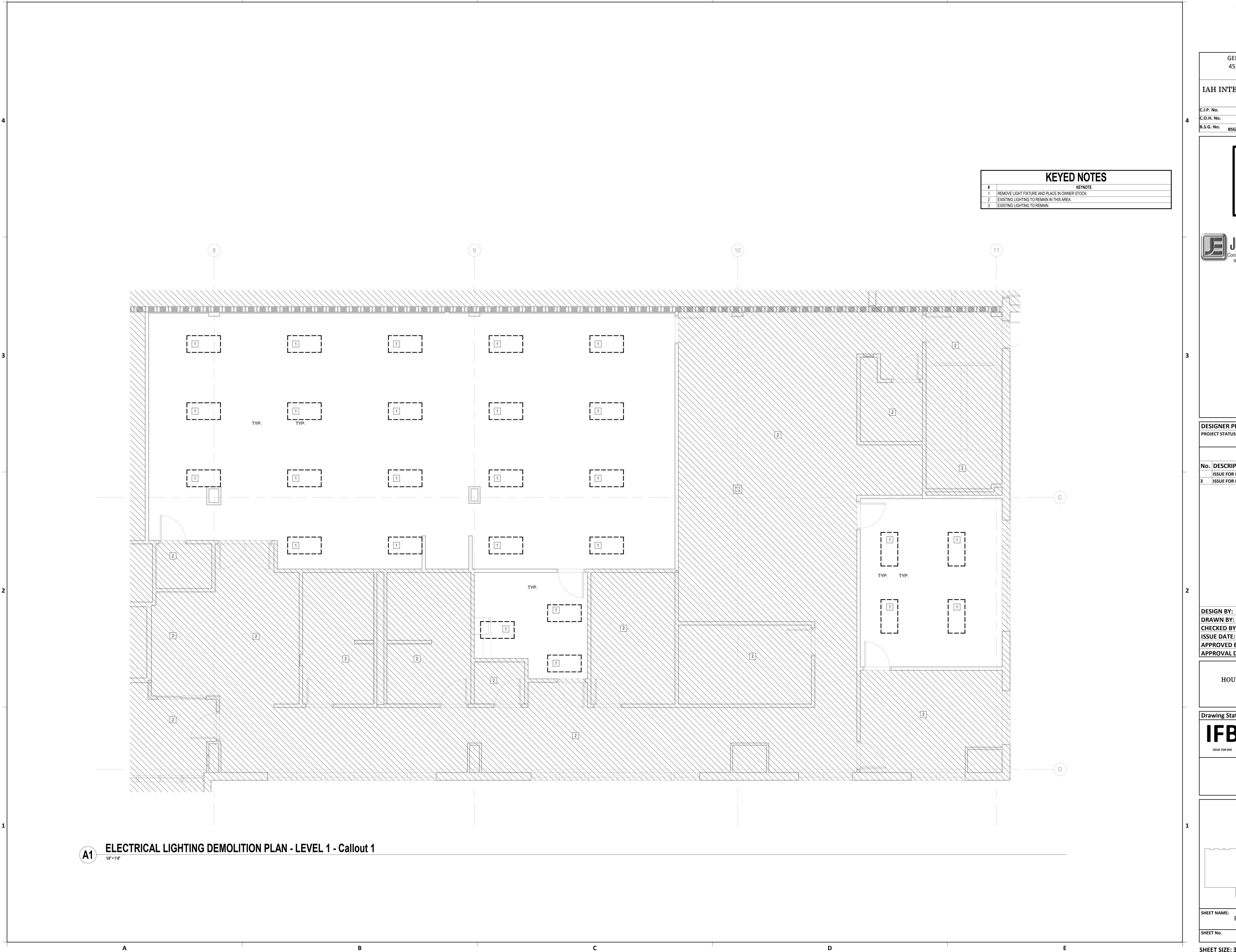




EL1.00 1/16" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

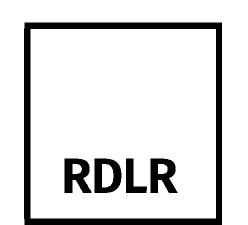
PLOT DATE: 6/7/2023 4:31
DOA DWG FILE:
OLD DOA No.:



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No.



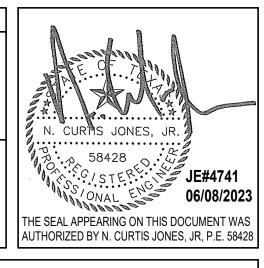


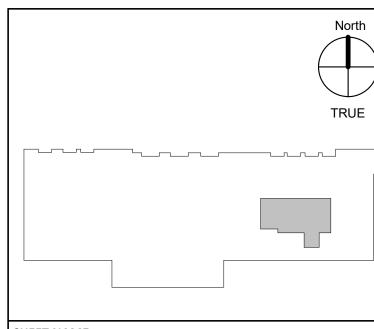
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DRAWN BY: CHECKED BY: 06/08/2023 **ISSUE DATE:** APPROVED BY: APPROVAL DATE: 06/08/2023

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Drawing Status





ENLARGED PLAN - LEVEL 1

SCALE:

EL1.01

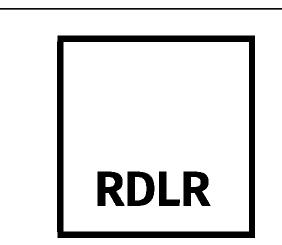
KEYED NOTES REMOVE LIGHT FIXTURE AND PLACE IN OWNER STOCK.
EXISTING LIGHTING TO REMAIN IN THIS AREA. 3 EXISTING LIGHTING TO REMAIN. 1 **ELECTRICAL LIGHTING DEMOLITION PLAN - LEVEL 2 - Callout 1**



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

4 C.I.P. No. PN793 A.I.P. No. N/A
C.O.H. No. N/A D.O.A. No. N/A
B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





DESIGNER PROJECT No.: 1429.13
PROJECT STATUS:

IFB

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No. DESCRIPTION DATE BY
ISSUE FOR PERMIT 10/06/2022
3 ISSUE FOR BID 06/08/2023

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 DRAWN BY:
 JE

 CHECKED BY:
 JE

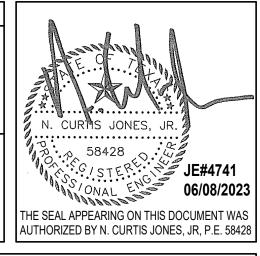
 ISSUE DATE:
 06/08/2023

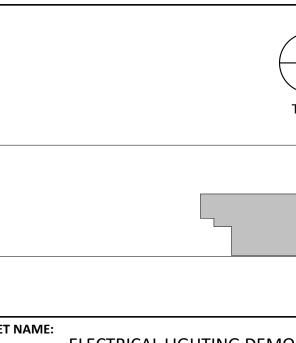
 APPROVED BY:
 JE

 APPROVAL DATE:
 06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

IFB





SHEET NAME:

ELECTRICAL LIGHTING DEMOLITION

ENLARGED PLAN - LEVEL 2

SHEET No.

SCALE:

EL1.02

1/4" = 1'-0"

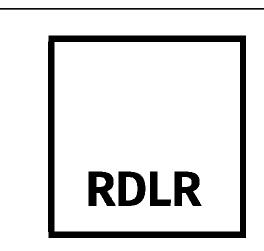
1 REMOVE LIGHT FIXTURE AND PLACE IN OWNER STOCK.
2 EXISTING LIGHTING TO REMAIN IN THIS AREA.
3 EXISTING LIGHTING TO REMAIN.

KEYED NOTES

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

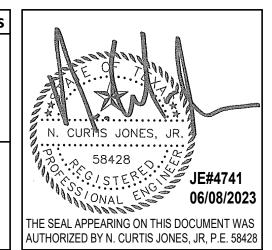


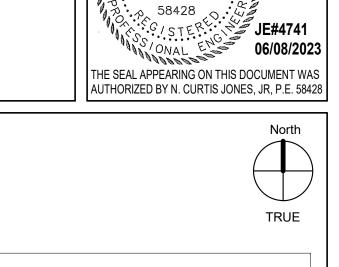


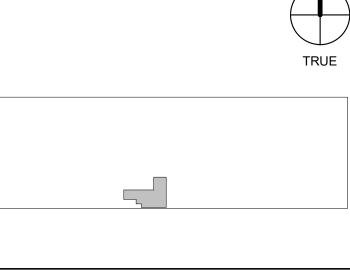
DES	SIGNER PROJECT No.	. :	1429.13
PROJ	ECT STATUS:		IFB
	REVIS	SIONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
3	ISSUE FOR BID	06/08/2023	

DESIGN BY:	JE
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ISSUE DATE:	06/08/2023
APPROVED BY:	JE
APPROVAL DATE:	06/08/2023

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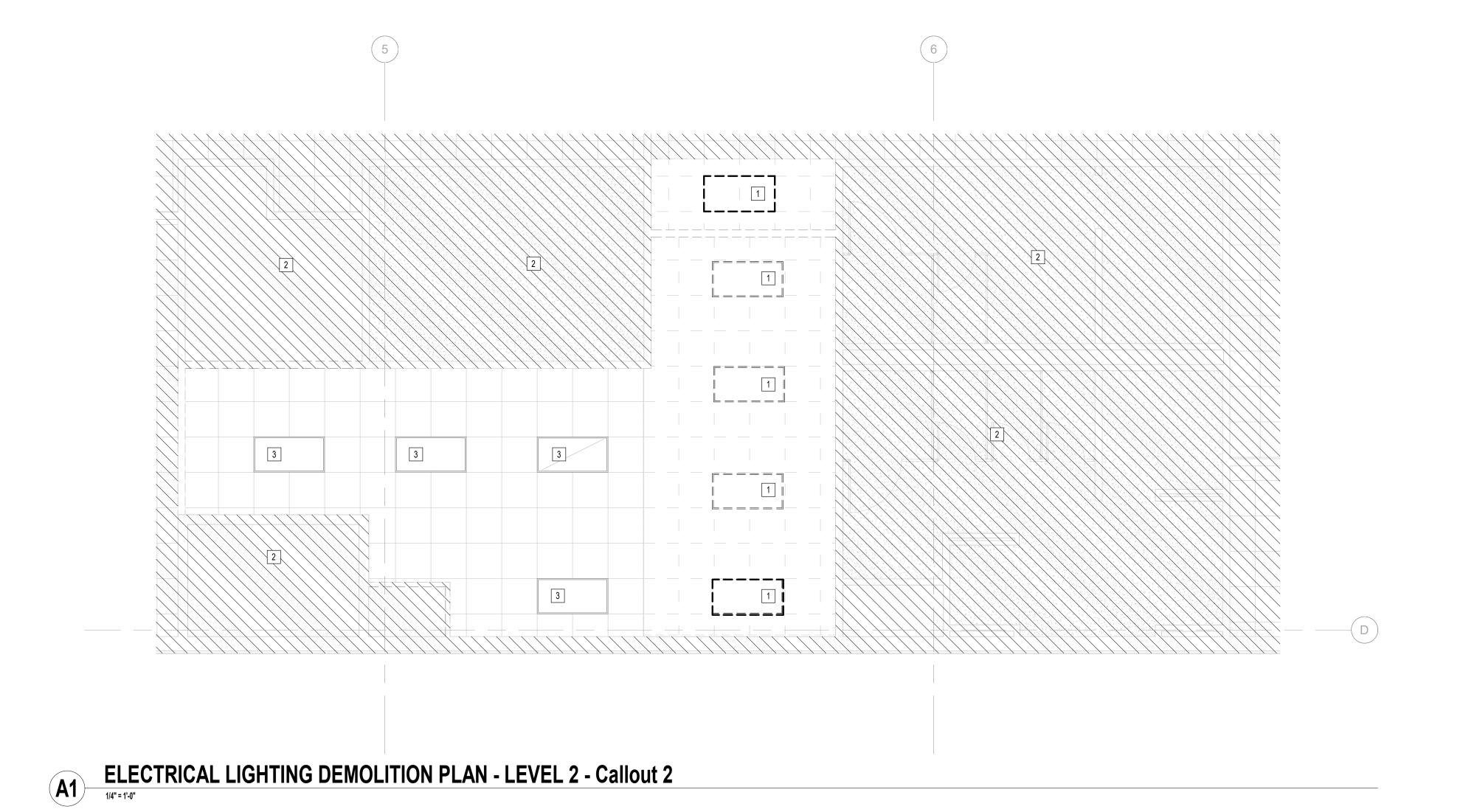
ELECTRICAL LIGHTING DEMOLITION

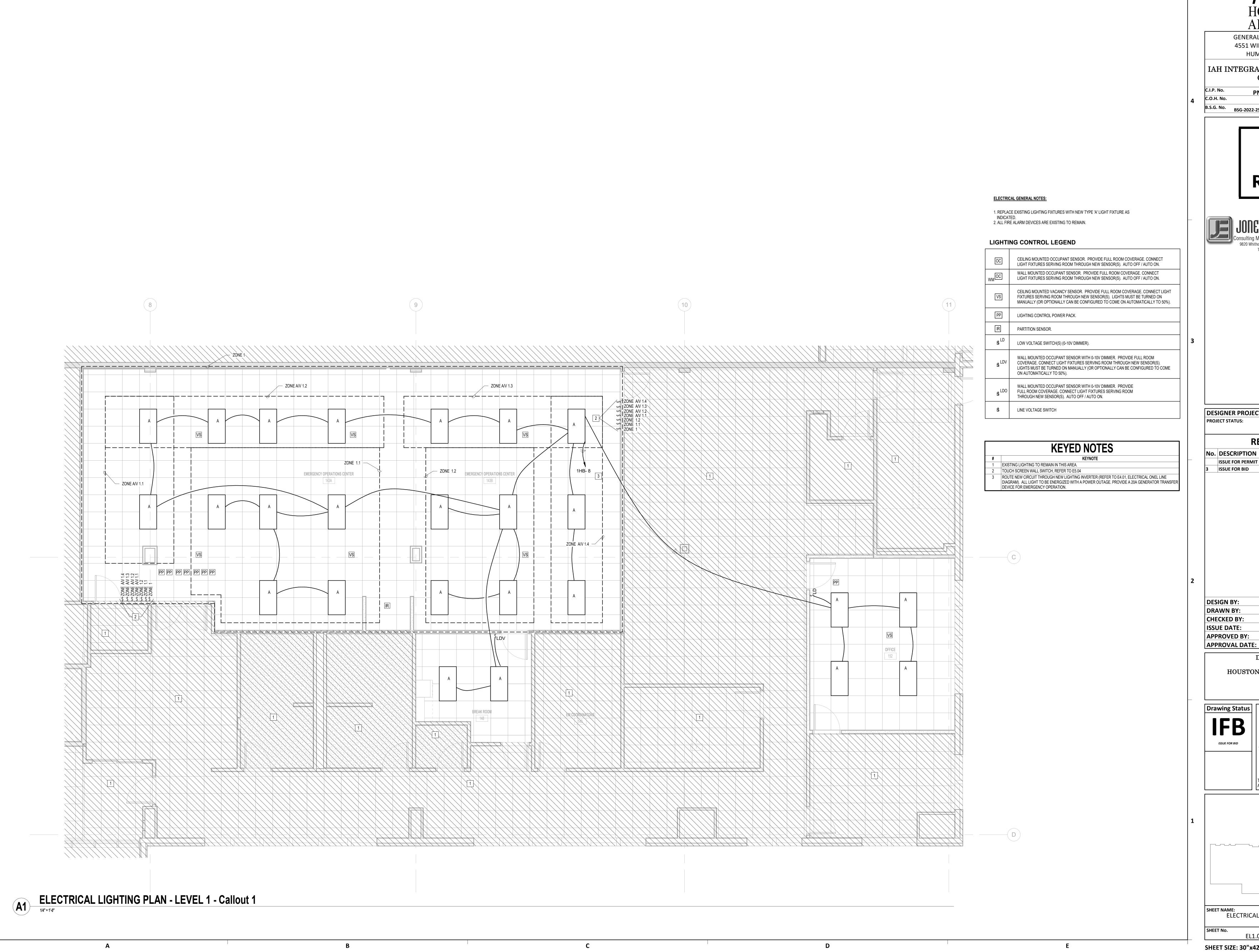
ENLARGED PLAN - LEVEL 2

SCALE:

EL1.03

1/4" = 1'-0"

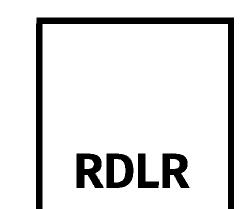




GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No.





DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY

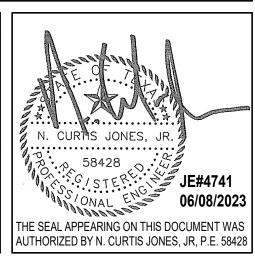
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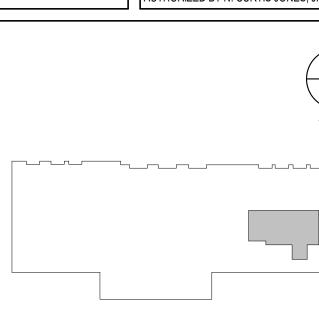
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DESIGN BY: DRAWN BY: CHECKED BY: 06/08/2023 ISSUE DATE: APPROVED BY: 06/08/2023 APPROVAL DATE:

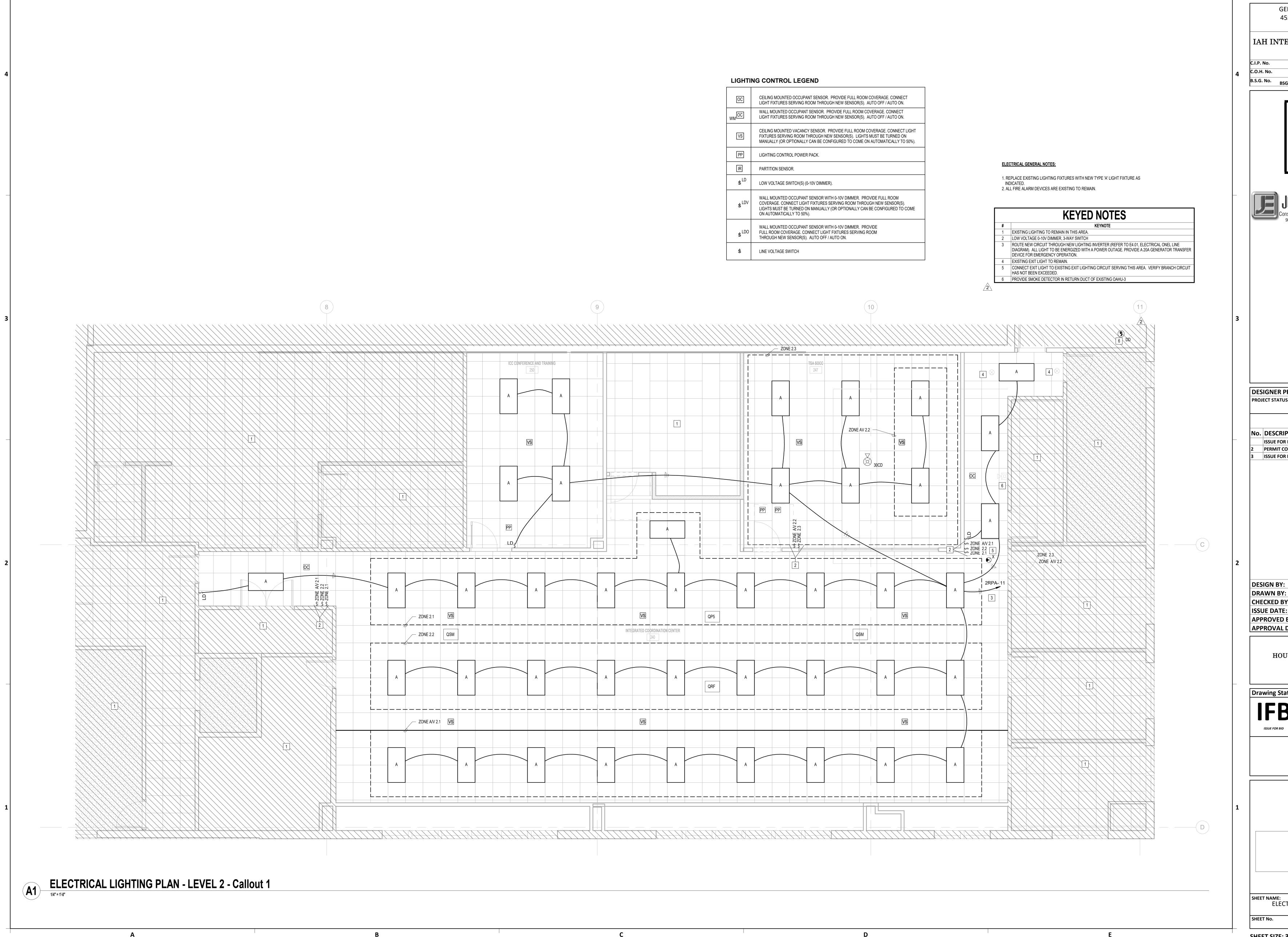
> DIRECTOR HOUSTON AIRPORT SYSTEM

Drawing Status





SHEET NAME:
ELECTRICAL LIGHTING ENLARGED PLAN -As indicated

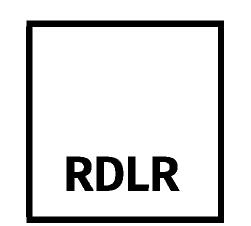




GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No.

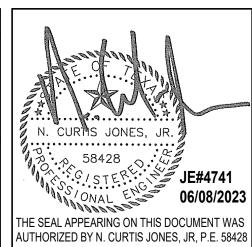


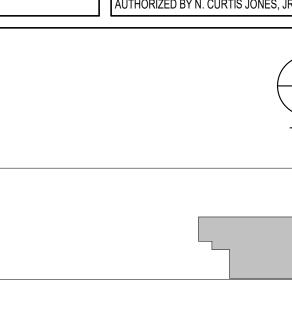


DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: **REVISIONS** No. DESCRIPTION **ISSUE FOR PERMIT** PERMIT COMMENTS 2 **ISSUE FOR BID**

DRAWN BY: CHECKED BY: **ISSUE DATE:** 06/08/2023 **APPROVED BY:** APPROVAL DATE: 06/08/2023

DIRECTOR HOUSTON AIRPORT SYSTEM





SHEET NAME:
ELECTRICAL LIGHTING ENLARGED PLAN As indicated

MEN'S SHOWER WOMEN'S SHOWER B1 ELECTRICAL LIGHTING PLAN - LEVEL 2 - Callout 2

ELECTRICAL GENERAL NOTES:

REPLACE EXISTING LIGHTING FIXTURES WITH NEW TYPE 'A' LIGHT FIXTURE AS INDICATED.
 ALL FIRE ALARM DEVICES ARE EXISTING TO REMAIN.

LIGHTING CONTROL LEGEND

\$ LINE VOLTAGE SWITCH

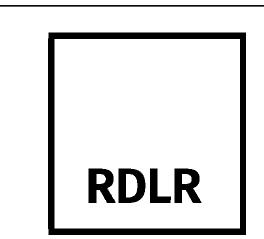
OC	CEILING MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
WM OC	WALL MOUNTED OCCUPANT SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
VS	CEILING MOUNTED VACANCY SENSOR. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
PP	LIGHTING CONTROL POWER PACK.
IR	PARTITION SENSOR.
\$ ^{LD}	LOW VOLTAGE SWITCH(S) (0-10V DIMMER).
\$ ^{LDV}	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%).
\$ ^{LDO}	WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE FULL ROOM COVERAGE. CONNECT LIGHT FIXTURES SERVING ROOM THROUGH NEW SENSOR(S). AUTO OFF / AUTO ON.
1	

KEYED NOTES			
#	KEYNOTE		
1	EXISTING LIGHT TO REMAIN. SWITCH AS INDICATED.		
2	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA. VERIFY BRANCH CIRCUIT HAS NOT BEEN EXCEEDED.		
3	EXISTING LIGHTING TO REMAIN IN THIS AREA.		
4	EXISTING EMERGENCY LIGHT TO REMAIN. SWITCH AS INDICATED.		

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

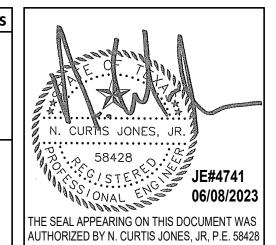


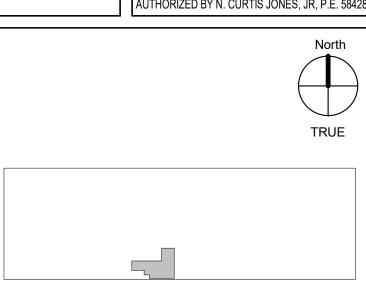


DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 06/08/2023 ISSUE FOR PERMIT

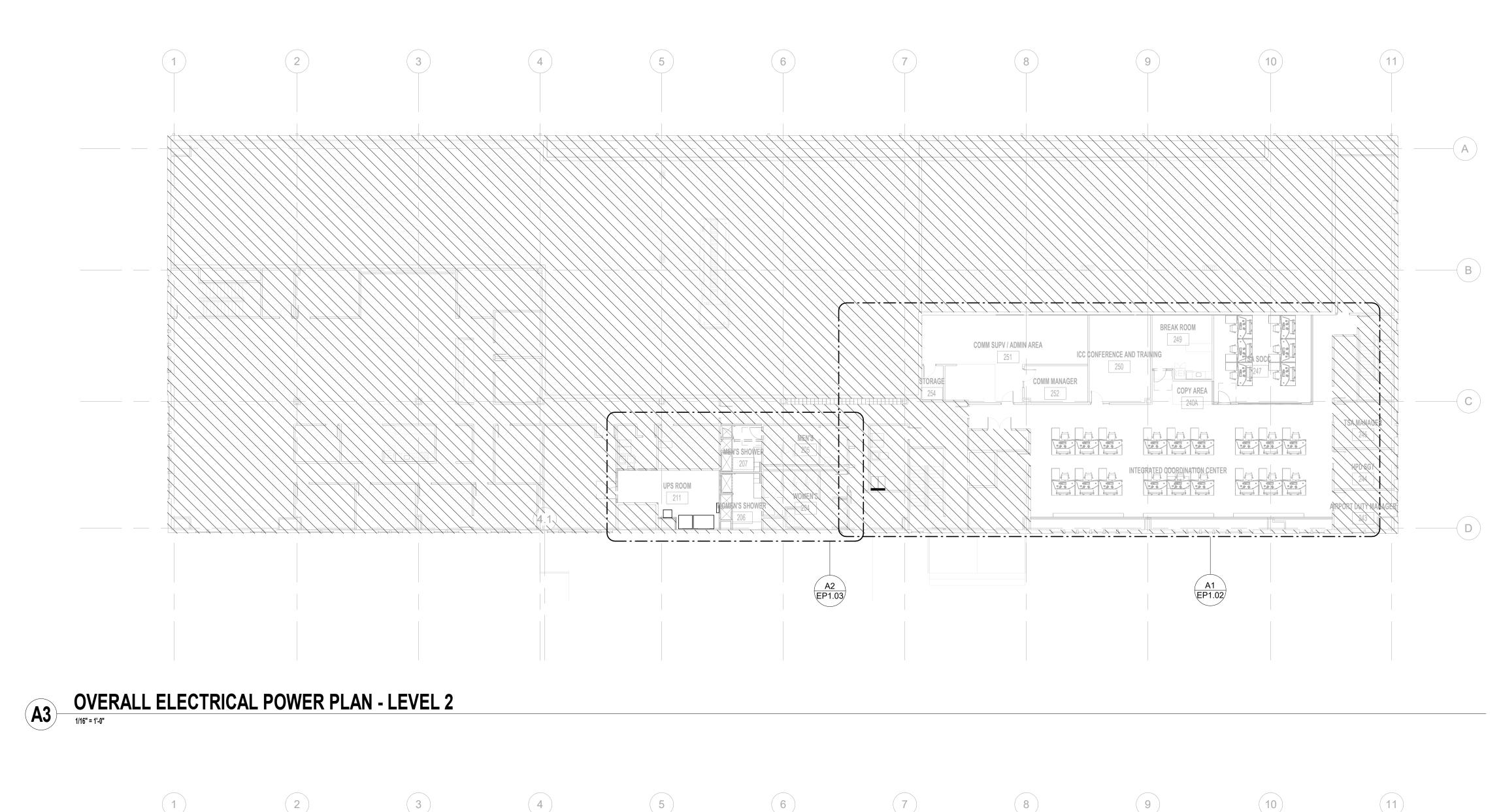
DESIGN BY:	JE
DRAWN BY:	JE
CHECKED BY:	JE
ISSUE DATE:	06/08/2023
APPROVED BY:	JE
APPROVAL DATE:	06/08/2023

DIRECTOR HOUSTON AIRPORT SYSTEM





SHEET NAME:
ELECTRICAL LIGHTING ENLARGED PLAN -As indicated



EMERGENCY OPERATIONS CENTER

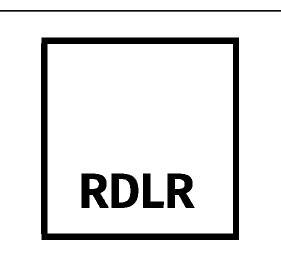
OVERALL ELECTRICAL POWER PLAN - LEVEL 1

1/16" = 1'-0"

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 06/08/2023 ISSUE FOR PERMIT

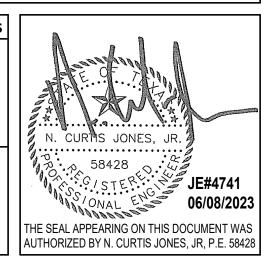
ISSUE FOR BID

DESIGN BY: DRAWN BY: **CHECKED BY:** 06/08/2023 **ISSUE DATE: APPROVED BY:**

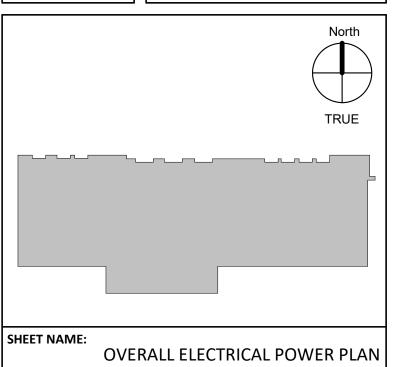
DIRECTOR HOUSTON AIRPORT SYSTEM

Drawing Status

APPROVAL DATE:

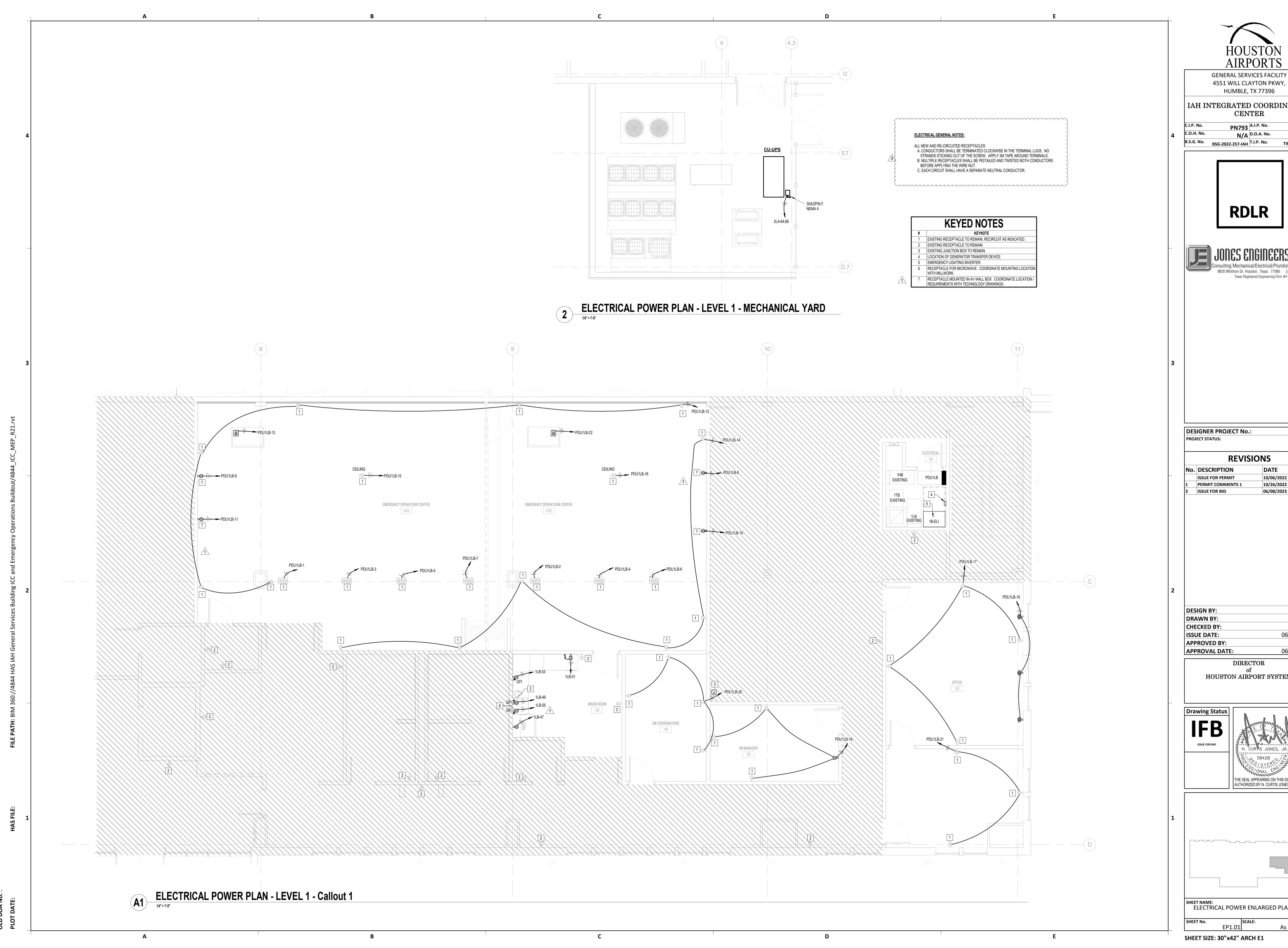


06/08/2023



SHEET SIZE: 30"x42" ARCH E1

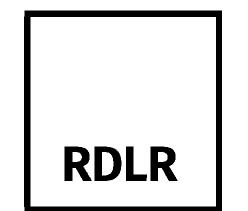
1/16" = 1'-0"



4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

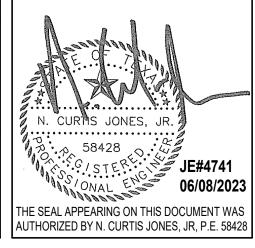


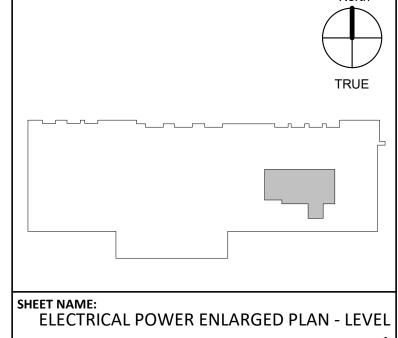


1429.13 **REVISIONS** DATE BY

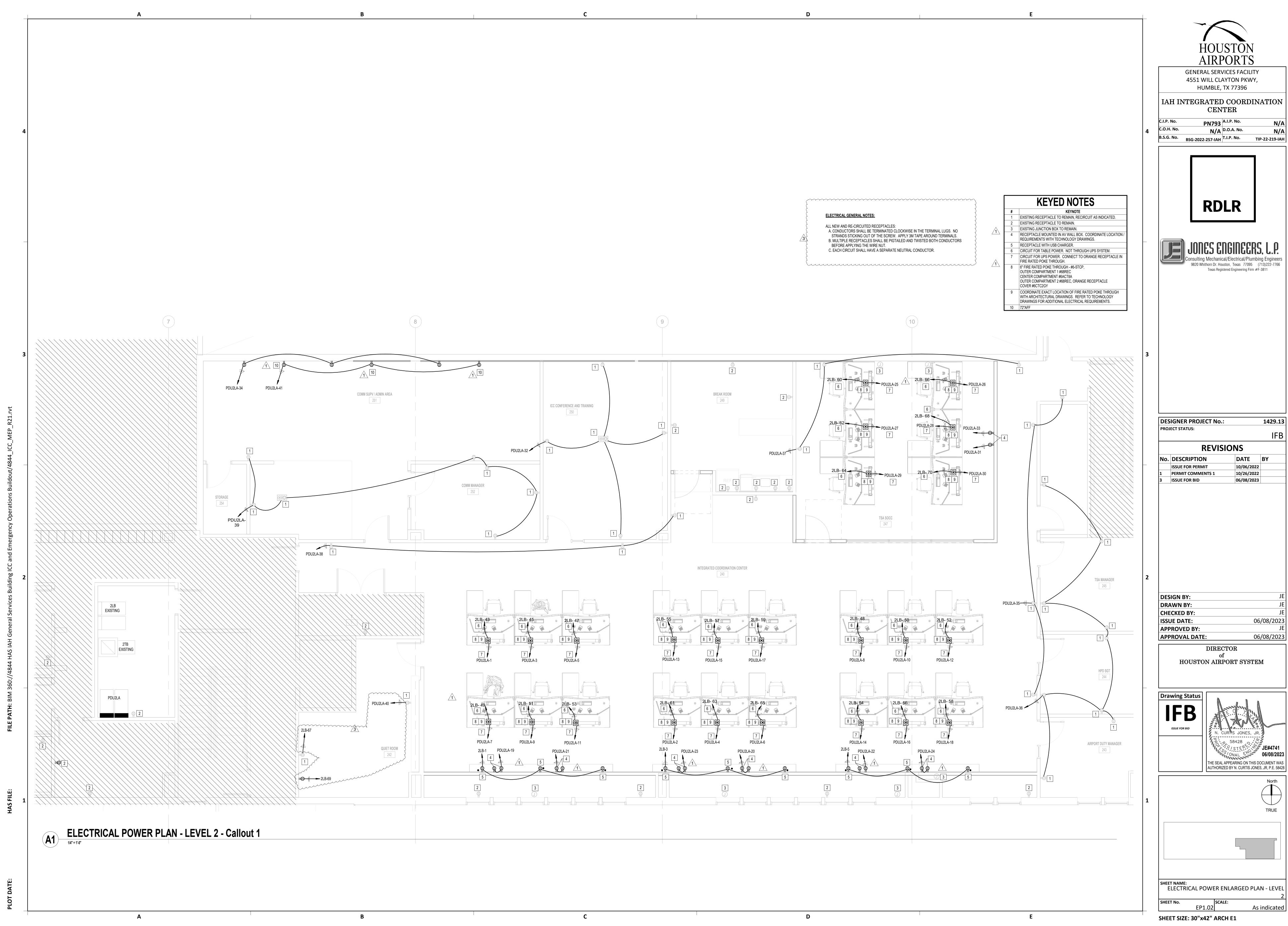
06/08/2023 06/08/2023

HOUSTON AIRPORT SYSTEM





As indicated



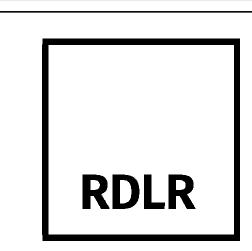
1429.13

2RPA 2RPA EXISTING EXISTING 2 2LA-60,62 — ++|} POWER DISTRIBUITION UPS-PDU ELECTRICAL POWER PLAN - LEVEL 2 - Callout 2

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



KEYED NOTES

KEYNOTE

1 LOCATION OF GENERATOR TRANSFER DEVICE.

2 EMERGENCY LIGHTING INVERTER.

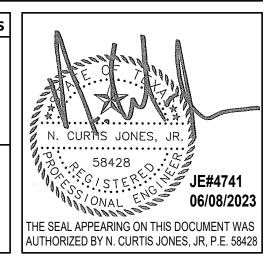
3 JUNCTION BOX FOR FLOAT SWITCH. COORDINATE EXACT LOCATION IN FIELD.

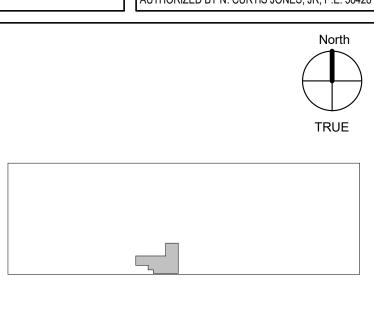


DESIGNER PROJECT No.:		1429.13	
PROJ	ECT STATUS:		IFB
	REVIS	SIONS	
No.	DESCRIPTION	DATE	ВҮ
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3	ISSUE FOR BID	06/08/2023	

DESIGN BY: DRAWN BY: **CHECKED BY:** ISSUE DATE: 06/08/2023 APPROVED BY: APPROVAL DATE: 06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

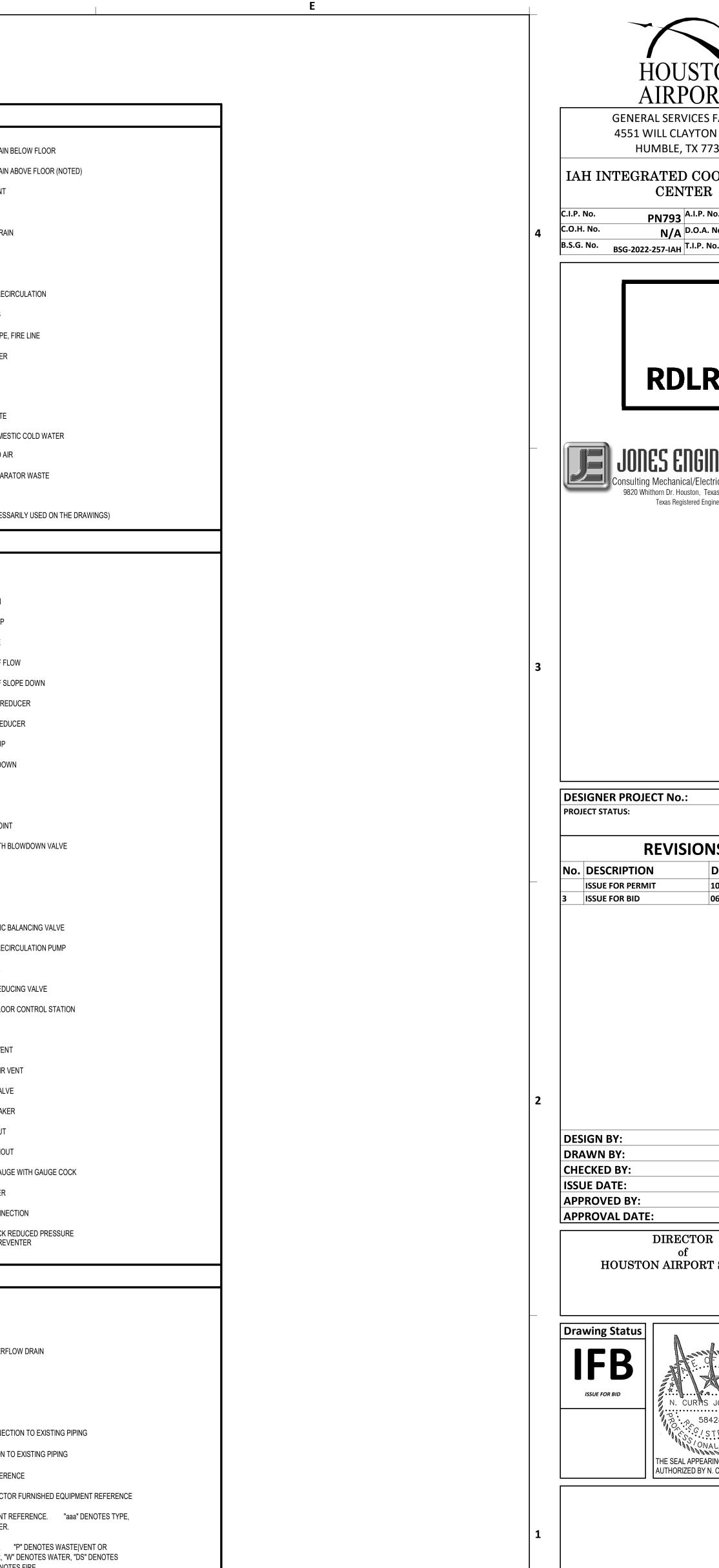




SHEET NAME: ELECTRICAL POWER ENLARGED PLAN - LEVEL 1/4" = 1'-0"

PIPING TYPES **ABBREVIATIONS** ——— SANITARY DRAIN BELOW FLOOR P Cont) AIR (COMPRESSED) FOS FUEL OIL SUPPLY PSI POUNDS PER SQUARE INCH SANITARY DRAIN ABOVE FLOOR (NOTED) ABOVE PSIG POUNDS PER SQUARE INCH FOV FUEL OIL VENT AIR CONDITIONING FP FIRE PUMP GAUGE — — — — SANITARY VENT ALTERNATING CURRENT, AIR FRZR FREEZER PLUMBING TRIM COMPRESSOR FLOW SWITCH, FIRE PV PLUG VALVE FS ----- SD ----- STORM DRAIN AMERICAN CONCRETE SPRINKLER PVC POLYVINYL CHLORIDE INSTITUTE FOOT, FEET PW PROCESS WASTE —— OD —— OVERFLOW DRAIN ACCESS DOOR, AREA DRAIN FUT FUTURE ADJUSTABLE ------ COLD WATER AFC ABOVE FINISHED CEILING ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE ——— - - ——— HOT WATER QTY QUANTITY ALUMINUM GAS AMB AMBIENT —— - - - — HOT WATER RECIRCULATION GAGE ACCESS PANEL, ALARM PANEL GAL GALLON ARCH ARCHITECT, ARCHITECTURAL — G — NATURAL GAS GALV GALVANIZED GC GENERAL CON R RISER ASME AMERICAN SOCIETY OF GENERAL CONTRACTOR RAD REFRIGERATED AIR DRYER MECHANICAL ENGINEERS — F — FIRE STANDPIPE, FIRE LINE GLV GLOBE VALVE RCP REFLECTED CEILING PLAN, ASTM AMERICAN SOCIETY OF GND GROUND REINFORCED CONCRETE PIPE TESTING AND MATERIALS GALLONS PER DAY ----- FS ------ FIRE SPRINKLER RD ROOF DRAIN ATS AUTOMATIC TRANSFER SWITCH GPH GALLONS PER HOUR ΑV ACID VENT, AIR VENT, AREA VALVE RE: REFERENCE, REFER GPM GALLONS PER MINUTE — TP — TRAP PRIMER AVG AVERAGE RECIRC RECIRCULATE **GATE VALVE** GV RED REDUCER AW ACID WASTE ---- D ----- DRAIN LINE REFR REFRIGERATOR AWS AMERICAN WELDING SOCIETY AUX AUXILIARY REINF REINFORCING ——— GW ———— GREASE WASTE REQD REQUIRED REV REVISION, REVISE HEIGHT —— DCWF —— FILTERED DOMESTIC COLD WATER RELATIVE HUMIDITY HOSE BIBB RKVA RUNNING KILOVOLT-AMPS BELOW COUNTER HEAD, HUB DRAIN ------ AIR ------ COMPRESSED AIR RKW RUNNING KILOWATTS HEAT EXCHANGER BACK OF CURB RLA RUNNING LOAD AMPS HORIZ HORIZONTAL BUTTERFLY VALVE RM ROOM, REFRIGERATION HORSEPOWER, HALON PANEL **BOX HYDRANT** MACHINE HOUSEKEEPING PAD BLDG BUILDING RPM REVOLUTIONS PER MINUTE HSC HORIZONTAL SPLIT CASE BENCHMARK RV RELIEF VALVE HTG HEATING BOF BOTTOM OF FOOTING (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS) HTR HEATER BOS BOTTOM OF STRUCTURE HOT WATER BATH TUB, BREAK TANK HOT WATER CIRCULATOR PIPING SYMBOLS BTU BRITISH THERMAL UNIT HWR HOT WATER RETURN BV BALL VALVE SAN SANITARY SEWER HWS HOT WATER SUPPLY BWV BACK WATER VALVE HZ HERTZ SC STEAM CONVERTER SCHED SCHEDULED ————O ELBOW UP SCR SILICON CONTROLLED CELSIUS RECTIFIER CAB CABINET STORM DRAIN CB CATCH BASIN SEWAGE EJECTOR INSIDE DIAMETER CFM CUBIC FEET PER MINUTE SEC SECONDARY INVERT ELEVATION CFS CUBIC FEET PER SECOND SECT SECTION CI CAST IRON SQUARE FEET INSUL INSULATION CIRC CIRCULATING SFCS SPRINKLER FLOOR CONTROL INTERNAL, INTERIOR CENTERLINE → DIRECTION OF FLOW STATION INDIRECT WASTE CLG CEILING SHOWER CLR CLEAR DIRECTION OF SLOPE DOWN SHEET CMP CORRIGATED METAL PIPE SIMILAR CMU CONCRETE MASONRY UNIT SINK CPI CAST IRON PIPE INSTITUTE SKVA STARTING KILOVOLT-AMPS JUNCTION BOX CPVC CHLORINATED POLYVINYL ECCENTRIC REDUCER SKW STARTING KILOWATTS JOCKEY PUMP SUMP PUMP CO CLEAN OUT COL COLUMN SPEC SPECIFICATION TEE OUTLET UP SPR SPRINKLER COMB COMBINATION SQUARE TEE OUTLET DOWN COMP COMPRESSOR SERVICE SINK CON CONVERTER SUBSURFACE DRAIN KEC KITCHEN EQUIPMENT CONC CONCRETE, CONCENTRIC SSFU SANITARY SEWER FIXTURE CONTRACTOR COND CONDENSER, CONDENSATE UNITS KO KNOCKOUT CONN CONNECTION STD STANDARD KVA KILOVOLT-AMPS CONT CONTINUOUS, CONTINUATION STL STEEL KW KILOWATT EXPANSION JOINT CONTR CONTROLLER, CONTRACTOR STR STRAINER CRP CORROSION RESISTANT PIPE SURF SURFACE CRT CATHODE RAY TUBE STRAINER WITH BLOWDOWN VALVE SUSP SUSPEND CT **COOLING TOWER** SV SANITARY VENT CTR CENTER GATE VALVE LENGTH, LAVATORY CU COPPER LABORATORY AIR CW COLD WATER GLOBE VALVE LAV LAVATORY CAPACITY INDEX LINEAR FEET CHECK VALVE BALL VALVE LRA LOCKED ROTOR AMPS TCC TEMPERATURE CONTROL LABORATORY VACUUM COMPRESSOR THERMOSTATIC BALANCING VALVE LVL LEVEL TRENCH DRAIN DEPTH, DRAIN LWCO LOW WATER CUT OFF TDH TOTAL DYNAMIC HEAD HOT WATER RECIRCULATION PUMP DIRECT CURRENT LWT LEAVING WATER TEMPERATURE TH BLK THRUST BLOCK DDC DIRECT DIGITAL CONTROL TOC TOP OF CURB ——— CHECK VALVE DEIONIZED WATER SUPPLY TP TRAP PRIMER DEP DEIONIZED WATER PUMP TSTAT THERMOSTAT MEDICAL AIR DER DEIONIZED WATER RETURN TW TEMPERED WATER PRESSURE REDUCING VALVE METER DESIG DESIGNATION TYP TYPICAL MAP MASTER ALARM PANEL DET DETAIL FCS SPRINKLER FLOOR CONTROL STATION MAXIMUM DRINKING FOUNTAIN MBH THOUSAND OF BTU'S DIAMETER ——————— GAS VALVE MECHANICAL CONTRACTOR DIM DIMENSION MECH MECHANICAL ——— MANUAL AIR VENT DISC DISCONNECT MFR MANUFACTURER DOWN AUTOMATIC AIR VENT MEDICAL GAS OUTLET UNDERGROUND DOWNSPOUT, DOUBLE SUCTION MANHOLE UNDERWRITERS LABORATORIES, DISHWASHER _______ T&P RELIEF VALVE MALLEABLE IRON DWG DRAWING MINIMUM UON UNLESS OTHERWISE NOTED DWH DOMESTIC WATER HEATER MEDICAL AIR PURIFIER U|F UNDERFLOOR DWP DOMESTIC WATER PUMP MS MOP SINK U|S UNDERSLAB VACUUM BREAKER MTD MOUNTED MU MAKE-UP LINE CLEANOUT MEDICAL VACUUM EA EACH —

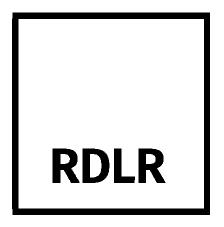
→ FLOOR CLEANOUT EC ELECTRICAL CONTRACTOR ECC ECCENTRIC VOLT, VENT, VACUUM PRESSURE GAUGE WITH GAUGE COCK EDF ELECTRIC DRINKING FOUNTAIN NITROGEN VOLT-AMPERE EFF EFFICIENCY NITROUS OXIDE VACUUM _____L THERMOMETER EJ EXPANSION JOINT N.C. NORMALLY CLOSED VALVE BOX **ELEVATION** NFPA NATIONAL FIRE PROTECTION VITRIFIED CLAY PIPE ELEC ELECTRICAL ASSOCIATION VELOCITY VEL ELEV ELEVATOR NOT IN CONTRACT VACUUM PUMP DOUBLE CHECK REDUCED PRESSURE EMERG EMERGENCY N.O. NORMALLY OPEN VERT VERTICAL ENCL ENCLOSURE NUMBER VALVE IN BOX BACKFLOW PREVENTER NTS NOT TO SCALE ENGR ENGINEER VOV VALVE ON VERTICAL EQ EQUAL VTR VENT THRU ROOF EQUIP EQUIPMENT **MISCELLANEOUS** ES END SUCTION, EMERGENCY SHOWER ET EXPANSION TANK ETR EXISTING TO REMAIN ON CENTER OUTSIDE DIAMETER, OVERFLOW FLOOR DRAIN EVAP EVAPORATOR WATT, WASTE, WIDTH EWT ENTERING WATER TEMPERATURE ORAL EVACUATION WITH EX EXPLOSION-PROOF FLOOR SINK WITHOUT WIO EXT EXTERNAL OPENING OS&Y OPEN STEM AND YOLK WATER CLOSET EXTG EXISTING ROOF DRAIN OR OVERFLOW DRAIN WCO WALL CLEANOUT WALL HYDRANT WATER METER WEATHERPROOF FARENHEIT, FIRE WPD WATER PRESSURE DROP FBO FURNISHED BY OTHERS PUMP, PLUMBING EQUIPMENT WATER SOFTENER FLOOR CLEAN OUT PLUMBING CONTRACTOR PLUMBING FIXTURES WATERTIGHT, WEIGHT FCS FLOOR CONTROL STATION PUMPED CONDENSATE RETURN WWF WELDED WIRE FABRIC FLOOR DRAIN PRESSURE DROP, PLANTER POINT OF NEW CONNECTION TO EXISTING PIPING FIRE DEPARTMENT SIAMESE FIRE DEPARTMENT VALVE POINT OF DEMOLITION TO EXISTING PIPING FIRE HYDRANT POST INDICATOR VALVE FIRE HOSE CABINET PLBG PLUMBING 1 DRAWING NOTE REFERENCE FIRE HOSE RACK PNEU PNEUMATIC YH YARD HYDRANT FIRE HOSE VALVE PNL PANEL OWNER OR CONTRACTOR FURNISHED EQUIPMENT REFERENCE FIXT FIXTURE PNTH PENTHOUSE FLA FULL LOAD AMPS POLYPROPYLENE FLEX FLEXIBLE PARTS PER MILLION PLUMBING EQUIPMENT REFERENCE. "aaa" DENOTES TYPE, FLOW LINE FLR FLOOR PRESSURE REDUCING STATION ZONE FOP FUEL OIL PUMP PRESSURE REDUCING VALVE RISER DESIGNATION. "P" DENOTES WASTE|VENT OR ZV ZONE VALVE FOR FUEL OIL RETURN POUNDS PER SQUARE FOOT WASTE|VENT|WATER, "W" DENOTES WATER, "DS" DENOTES DOWNSPOUT, "F" DENOTES FIRE. FIRE DEPARTMENT SIAMESE CONNECTION



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

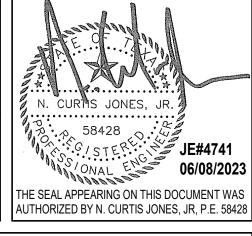




PROJ	ECT STATUS:		
REVISIONS			
No.	DESCRIPTION	DATE	В١
	ISSUE FOR PERMIT	10/06/2022	
3	ISSUE FOR BID	06/08/2023	

DESIGN BY:	JI
DRAWN BY:	JI
CHECKED BY:	JI
ISSUE DATE:	06/08/2023
APPROVED BY:	JI
APPROVAL DATE:	06/08/2023

HOUSTON AIRPORT SYSTEM



PLUMBING SYMBOLS AND ABBREVIATIONS

12" = 1'-0"

GENERAL NOTE: 0 0.9 12 13 6.6 7 (9.192) 1. ALL PLUMBING IN THIS AREA IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE. 9.10 9.22 D.1 OVERALL PLUMBING PLAN - LEVEL 2

1/16" = 1'-0" OVERALL PLUMBING PLAN - LEVEL 1

1/16" = 1'-0"

BUILDING TO BE 100% SPRINKLERED, PER NFPA 13.

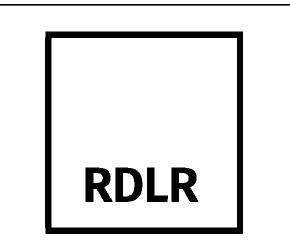
PLUMBING GENERAL NOTES:



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

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N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No.

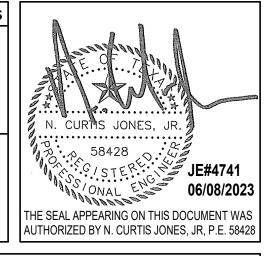


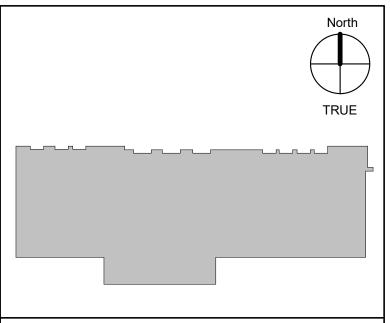


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PROJ	ECT STATUS:		IFB
	REVIS	SIONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	

DESIGN BY:	JE
DRAWN BY:	JE
CHECKED BY:	JE
ISSUE DATE:	06/08/2023
APPROVED BY:	JE
APPROVAL DATE:	06/08/2023

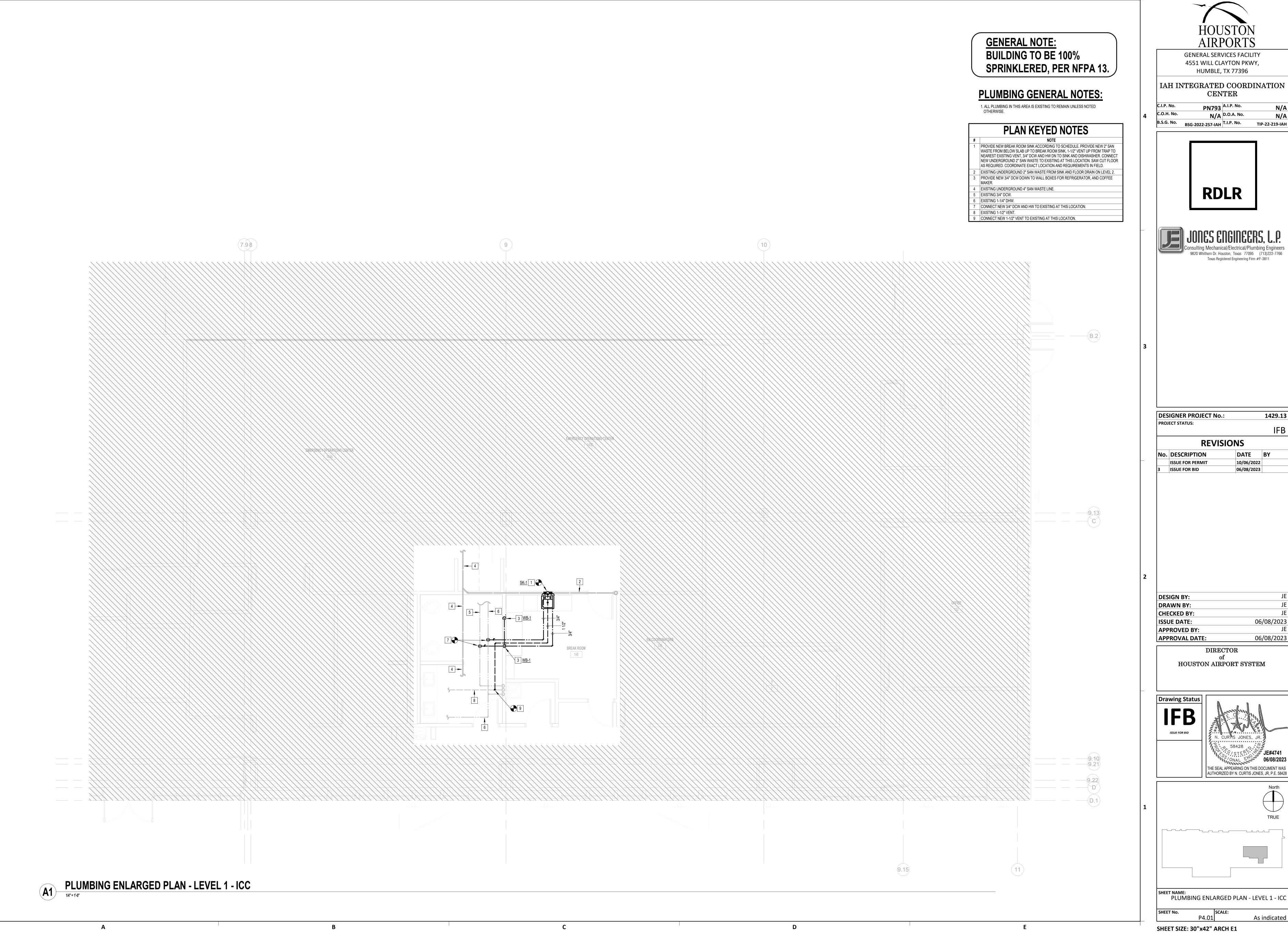
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OVERALL PLUMBING PLAN

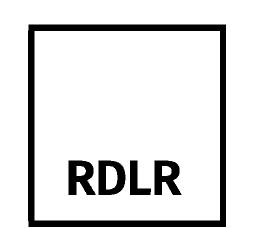
As indicated





GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

PN793 A.I.P. No. N/A D.O.A. No. TIP-22-219-IAH

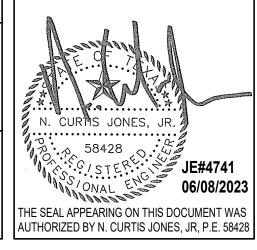




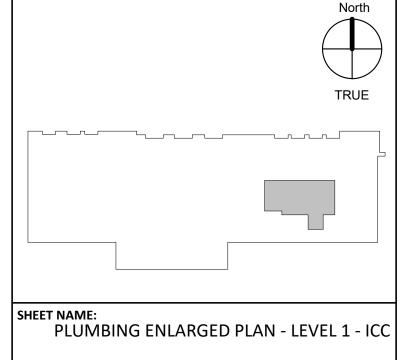
1429.13 **REVISIONS** DATE BY 10/06/2022 06/08/2023

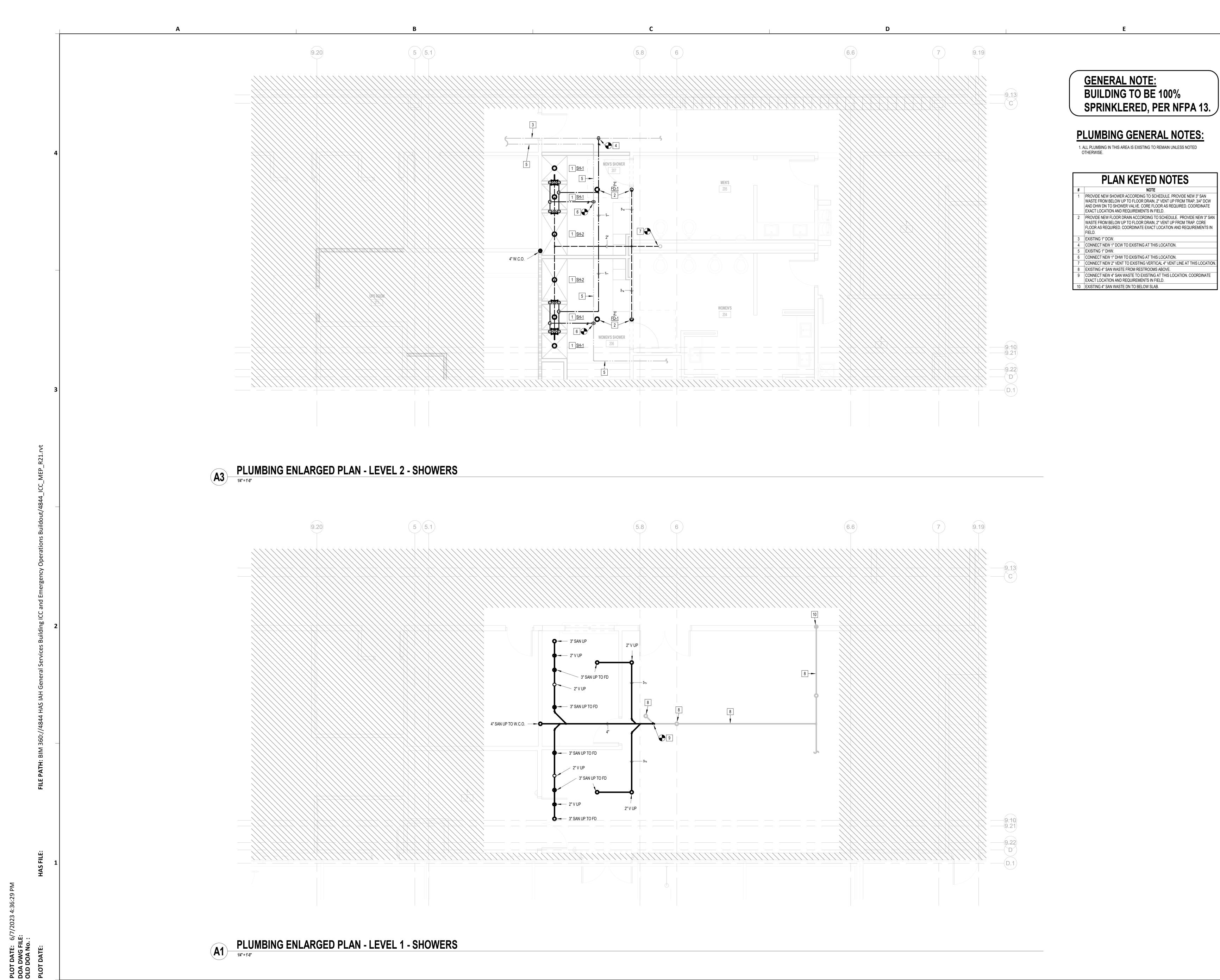
06/08/2023 06/08/2023

HOUSTON AIRPORT SYSTEM



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HOUSTON AIRPORTS

AIRPORTS

GENERAL SERVICES FACILITY

4551 WILL CLAYTON PKWY,

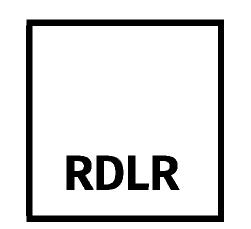
IAH INTEGRATED COORDINATION CENTER

HUMBLE, TX 77396

C.I.P. No. PN793 A.I.P. No. N/A

C.O.H. No. N/A D.O.A. No. N/A

B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





DES	IGNER PROJECT No.	:	1429.13
PROJ	ECT STATUS:		IFB
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No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
3	ISSUE FOR BID	06/08/2023	

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ISSUE DATE:

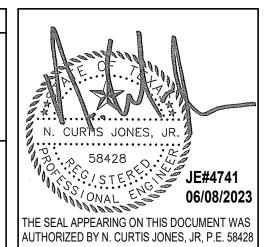
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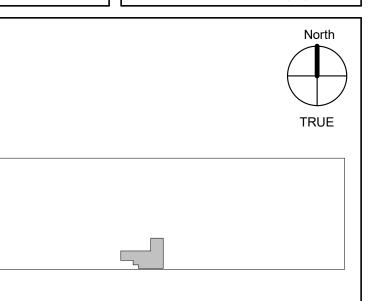
APPROVAL DATE:

06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

Drawing Status

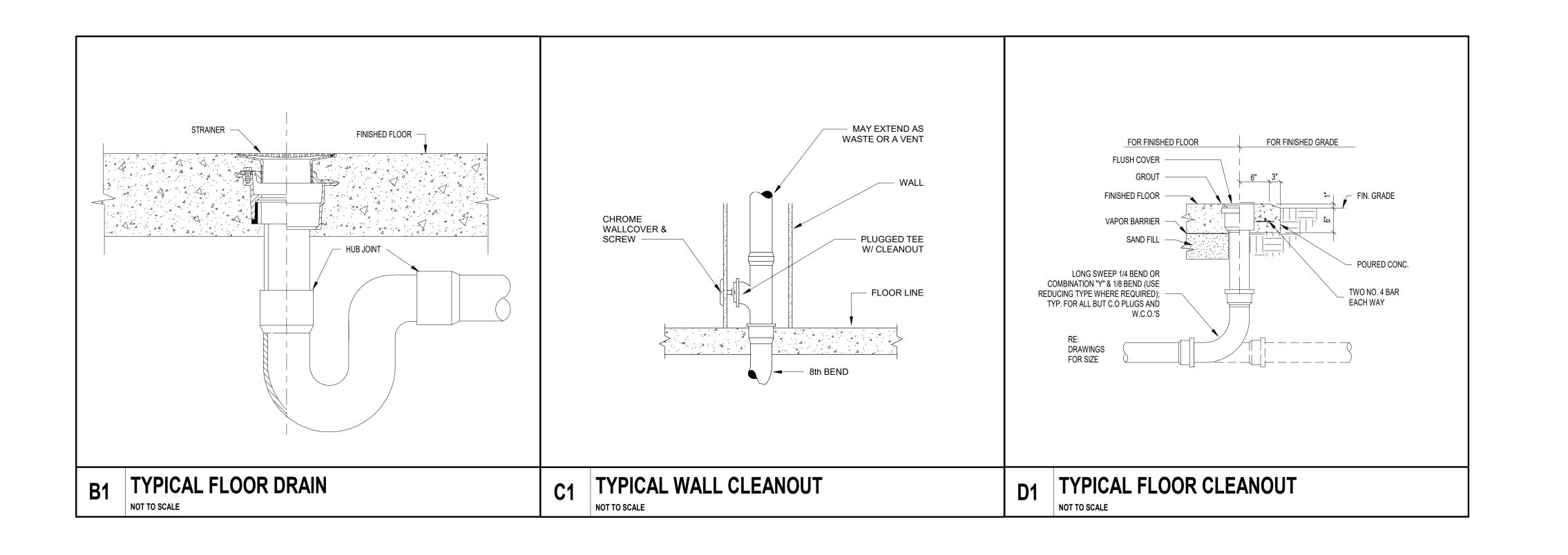




SHEET NAME:
PLUMBING ENLARGED PLAN - LEVEL 1 & 2 SHOWERS
SHEET No.
SCALE:
P4.02
As indicated

				PLU	JMBIN(G FIXTURE	AND CONN	NECTION SCHEDULE
			ROUGH-IN (CONNECTION	SIZE			
MARK	FIXTURE	C.W.	H.W.	VENT	WASTE	MANUFACTURER	MODEL	DESCRIPTION AND NOTES
3" FD-1	FLOOR DRAIN					ZURN	Z415	FLOOR DRAIN W/ TYPE 'B' STRAINER.
SH-1	SHOWER					SYMMONS	C-96-1-X	TEMPTROL SHOWER SYSTEM WITH SYMMONS TEMPTROL PRESSURE BALANCING MIXING VALVE. SHOWER DRAIN TO BE 3" ZURN #Z-415 FLOOR DRAIN WITH CHROME STRAINER.
SH-2	SHOWER (ADA)					SYMMONS	C-96-500-B30-V-X	ADA TEMPTROL HAND SHOWER SYSTEM WITH SYMMONS TEMPTROL PRESSURE BALANCING MIXING VALVE. SHOWER DRAIN TO BE 3" ZURN #Z-415 FLOOR DRAIN WITH CHROME STRAINER.
SK-1	SINK (SINGLE COMPARTMENT)	3/4"	3/4"	1-1/2"	2"	ELKAY	LUSTERTONE LRADQ171650	SINGLE COMPARTMENT COUNTERTOP, STAINLESS STEEL SINK, ADA DEPTH, WITH CHICAGO 895-317GN2AE3ABCP GOOSENECK FAUCET, 2.2GPM, ADA WRISTBLADES. PROVIDE WITH TRU-BRO TRAP AND STOP PROTECTORS OR HANDI BASIN GUARD UNDERSINK ENCLOSURE AS REQUIRED, COORDINATE WITH ARCHITECT.
WB-1	WALL BOX	1/2"	1/2"	-	-	GUY GRAY	MDWB1AB	WALL BOX FOR ICEMAKER. WALL BOX TO INCLUDE 1/2" INLET, 3/8" OUTLET QUARTER TURN VALVE WITH ARRESTER. PROVIDE 1/2" WATTS SERIES 7 DUAL CHECK VALVE.

PLUMBING PIPE MATERIALS		
SYSTEM:	SERVICE:	
WATER PIPE, BELOW GRADE	TYPE 'K' COPPER	
WATER PIPE, ABOVE GRADE	TYPE 'L' COPPER	
SANITARY SEWER, BELOW GRADE	SCHEDULE 40 PVC	
SANITARY SEWER, ABOVE GRADE	CAST IRON	
FIRE SPRINKLER LINE	BLACK STEEL	

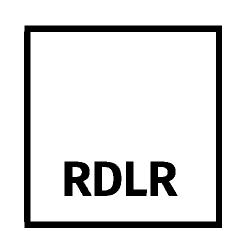




GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

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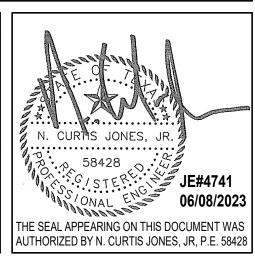


DESIGNER PROJECT No.: 1429.13 PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 06/08/2023 ISSUE FOR PERMIT ISSUE FOR BID

DESIGN BY: DRAWN BY: CHECKED BY: ISSUE DATE: 06/08/2023 APPROVED BY: APPROVAL DATE: 06/08/2023

> DIRECTOR HOUSTON AIRPORT SYSTEM

Drawing Status



SHEET NAME:
PLUMBING DETAILS AND SCHEDULES As indicated

CEILING CEILING LEVEL 2 LEVEL 2

SHOWERS RISER KEYED NOTES

PROVIDE NEW SHOWER ACCORDING TO SCHEDULE. PROVIDE NEW 3" SAN WASTE FROM BELOW UP TO FLOOR DRAIN, 2" VENT UP FROM FLOOR DRAIN, 3/4" DCW AND DHW DN TO SHOWER VALVE. CORE FLOOR AS REQUIRED. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.

PROVIDE NEW FLOOR DRAIN ACCORDING TO SCHEDULE. PROVIDE NEW 3" SAN WASTE FROM BELOW UP TO FLOOR DRAIN, 2" VENT UP FROM TRAP. CORE FLOOR AS REQUIRED. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. EXISTING 1" DHW.

4 CONNECT NEW 1" DHW TO EXISTING. EXISITNG 1" DCW.

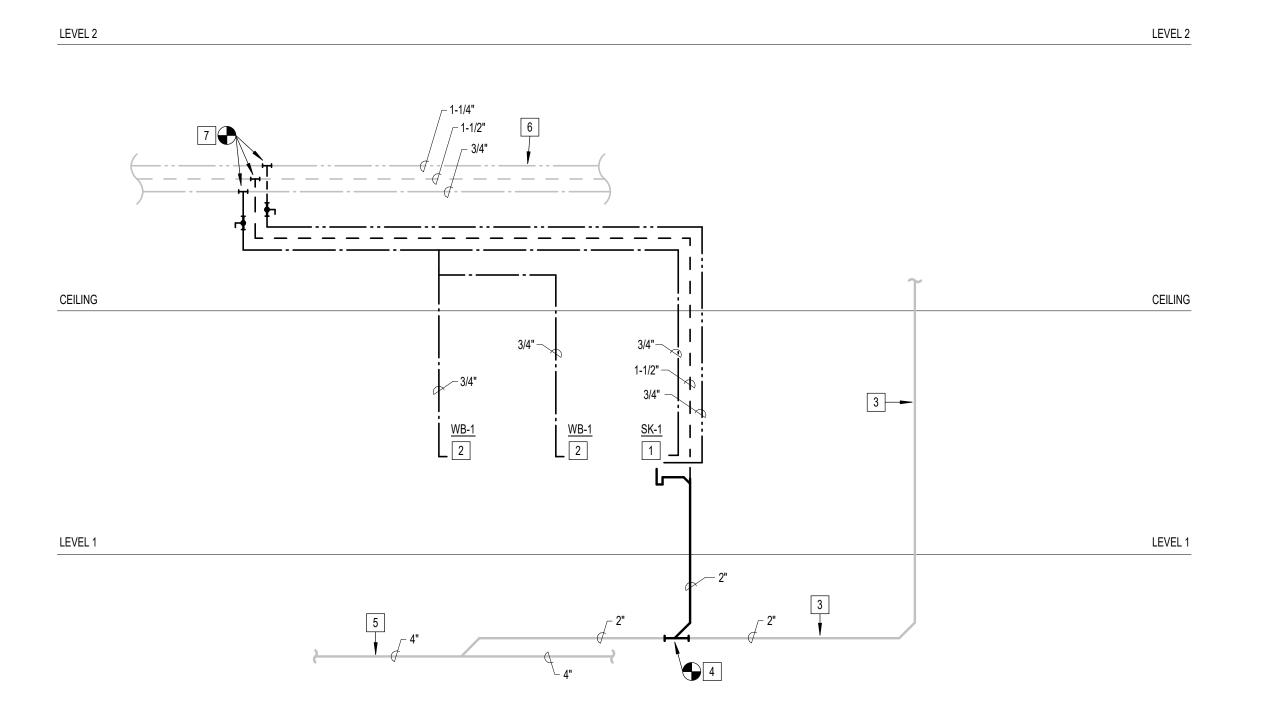
CONNECT NEW 1" DCW TO EXISITNG. CONNECT NEW 2" VENT TO EXISTING VERTICAL 4" VENT LINE.

EXISTING 4" SAN WASTE FROM RESTROOMS ABOVE. CONNECT NEW 4" SAN WASTE TO EXISTING. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD.

EXISTING 4" SAN WASTE DN TO BELOW SLAB.

PLUMBING RISER DIAGRAM - SHOWERS

N.T.S.



ICC RISER KEYED NOTES

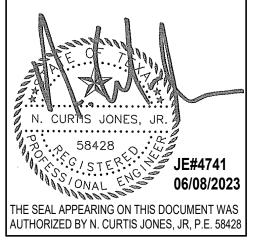
PROVIDE NEW BREAK ROOM SINK. PROVIDE NEW WALL BOXES FOR REFRIGERATOR AND COFFEE MAKER. EXISTING UNDERGROUND 2" SAN WASTE FROM SINK AND FLOOR DRAIN ON LEVEL 2

4 CONNECT NEW UNDERGROUND 2" SAN WASTE TO EXISTING. SAW CUT FLOOR AS REQUIRED. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. EXISTING UNDERGROUND 4" SAN WASTE LINE.

6 EXISTING 3/4" DCW, 1-1/4" DHW, AND 1-1/2" VENT. 7 CONNECT NEW 3/4" DCW, 3/4" DHW, AND 1-1/2" VENT TO EXISTING.

Drawing Status

ISSUE DATE:



06/08/2023

PLUMBING RISERS N.T.S.

PLUMBING RISER DIAGRAM - ICC

N.T.S.

DESIGN BY: DRAWN BY: CHECKED BY:

DESIGNER PROJECT No.:

PROJECT STATUS:

No. DESCRIPTION

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ISSUE FOR BID

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RDLR

TIP-22-219-IAH

9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766

Texas Registered Engineering Firm #F-3811

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TX 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No.

B.S.G. No. BSG-2022-257-IAH T.I.P. No.

N/A D.O.A. No.

DATE BY

10/06/2022

06/08/2023

1429.13

REVISIONS

APPROVED BY: APPROVAL DATE: 06/08/2023

- 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 EXCEPTIONS. 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. 11. REFER TO THE BID SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK.
- 12. 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.
- 16. CABLING INSTALLATION PRACTICES SHALL CONFORM TO ANSI/BICSI N1, AS APPLICABLE. INSTALLED.
- 17. CABLING SHALL MET THE REQUIREMENTS OF APPLICABLE STANDARDS (E.G., ANSI/TIA-568.2 ANSI/TIA-568.3, ISO/IEC 11801-1). ALL CONNECTORS SHALL BE SELECTED AND PROTECTED AS APPROPRIATE FOR THE ENVIRONMENTAL (E.G., PLENUM SPACE,
- 18. FOR PASSIVE DAS DISTRIBUTION SYSTEMS, INSTALLATION PROCEDURES SHALL CAREFULLY FOLLOW THE MANUFACTURER'INSTRUCTIONS TO ENSURE A HIGH-QUALITY INSTALLATION WITH MINIMUM PIM.
- 19. INSTALLED SYSTEMS SHALL BE TESTED WITH A PIM TESTER. ANY DEFECTS FOUND SHALL BE CORRECTED AND THE SYSTEM

TECHNOLOGY	ABBREVIATIONS

(N) NEW

NET NETWORK SWITCH

NIC NOT IN CONTRACT

PTP POINT TO POINT

RF RADIO FREQUENCY

SMF | SINGLE MODE FIBER

R RADIUS

PIM PASSIVE INTERMODULATION

PR PAIR AS IN COPPER PAIR (CATEGORY 5)

RFI RADIO FREQUENCY INTERFERENCE

STP SHIELDED TWISTED PAIR, 22 AWG

TR TELECOMMUNICATIONS ROOM

UHF ULTRA HIGH FREQUENCY

UTP UNSHIELDED TWISTED PAIR

UTP UNSHIELDED TWISTED PAIR

VSWR VOLTAGE STANDING WAVE RATIO

WLAN | WIRELESS LOCAL AREA NETWORK

- ANTENNA NUMBER

- REMOTE UNIT NUMBER

WSP WIRELESS SERVICE PROVIDER

VHF VERY HIGH FREQUENCY

WAN | WIDE AREA NETWORK

DEVICE DESIGNATION KEY

1. 2. 3

ZONE NUMBER -

SNMP | SIMPLE NETWORK MANAGEMENT PROTOCOL

UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

POE POWER OVER ETHERNET

AC	ALTERNATING CURRENT
AO	ALTERNATING GORRENT
AHJ	AUTHORITY HAVING JURISDICTIO
554	DIDIDECTIONAL AMPLIFIED

- BDA | BIDIRECTIONAL AMPLIFIER BIM BUILDING INFORMATION MODELING
- BTS BASE TRANSCEIVER STATION
- CBRS | CITIZEN BROADBAND RADIO SERVICE
- CX COAXIAL CABLE CM CABLE MANAGEMENT
- CW CONTINUOUS WAVE
- COPP | COPPER PATCH PANEL DAS DISTRIBUTED ANTENNA SYSTEM
- DC DIRECT CURRENT (E) EXISTING
- EIRP | EFFECTIVE ISOTROPIC RADIATED POWER EMI ELECTROMAGNETIC INTERFERENCE
- ER EQUIPMENT ROOM ERP | EFFECTIVE RADIATED POWER
- FOPP | FIBER OPTIC PATCH PANEL GC GENERAL CONTRACTOR
- ICT INFORMATION AND COMMUNICATION TECHNOLOGY LEC LOCAL EXCHANGE CARRIER
- LMR LAND MOBILE RADIO LTE LONG TERM EVOLUTION
- MIMO | MULTIPLE INPUT/MULTIPLE OUTPUT (ANTENNA) MMF | MULTIMODE FIBER

MCU MASTER CONTROL UNIT

TECHNOLOGY EQUIPMENT SYMBOLS LIST

SYMBOL	DESCRIPTION
DAS	DISTRIBUTED ANTENNA SYSTEM
HDMI-R	HDMI RECEIVER
HDMI-T	HDMI TRANSMITTER
FOPP	FIBER OPTIC PATCH PANEL
FOT	FIBER OPTIC TRANSMITTER
FOR	FIBER OPTIC RECEIVER
CPP CPP	COPPER PATCH PANEL
PHX	PHONE WHERE "X" IS: C - CONFERENCE PHONE D - DESK PHONE S - SOFT PHONE (NON PHYSICAL PHONE: USES LICENSE)
НН	HAND HOLE

- 1		
	MATV	MAINTENANCE HOLE
	МН	MAINTENANCE HOLE

- NETWORK SWITCH (OWNER) NS T NETWORK SWITCH (TENANT)
- РВ PULL BOX OSP COPPER PROTECTOR
- X-CAT6 TERMINATION JACK WHERE X REPRESENTS QUANTITY OF CAT6 CABLES. FIELD COORDINATE EXACT PLACEMENT WITH OTHER TRADE.
- EXAMPLE: 4-CAT6 WITH 4-PORT WALL PLATE, 15" A.F.F. PROVIDE PATCH CORD FOR EACH CONNECTED
- TV OUTLET (1 RG-6 CABLE)
- HDMI WITH 2 AUDIO JACKS. INCLUDE PLENUM HDMI AND 2 AUDIO CABLE FROM JACK TO A/V SOURCE WITHIN ROOM. 1 CAT 6 WITH PLATE FOR WALL MOUNTED PHONE, 45"A.F.F.
- BLANK WALL PLATE X CAT 6 CABLE (FLOOR OUTLET) WHERE X REPRESENTS QUANTITY OF CAT6 CABLES. WAP WIRELESS ACCESS POINT, 2 CAT 6A CABLES
- ALL WEATHER OUTDOOR PHONE, 1 CAT 6 FDLU FIBER DISTRIBUTION LOCAL UNIT

MULTIPLEXER

PC1

PC2

FDRU SVR **CBRS SERVER** SP SPLITTER MX

FIBER DISTRIBUTION REMOTE UNIT

- Т TERMINATOR TAP PASSIVE TAP/SPLITTER/COMBINER/PLEXOR
 - PC TYPE 1 PC TYPE 2

TECHNOLOGY EQUIPMENT SYMBOLS LIST

SYMBOL

DESCRIPTION

STWIDGE	DEGCINII HON
0	CONDUIT TURNING UP
•	CONDUIT TURNING DOWN
[TERMINATING CONDUIT. PROVIDE GROUND LUG AND INSULATED THROAT BUSHING.
	EXPOSED CONDUIT
	CONCEALED CONDUIT
	ARIEL CABLE
FPC	FLIGHT INFORMATION DISPLAY PC
НСМ	HORIZONTAL CABLE MANAGEMENT
JB	JUNCTION BOX
EX	ETHERNET EXTENDER
SP	A/V SPEAKER
REC	REMOTE EQUIPMENT ENCLOSURE
——COAX TYPE 1——	COXIAL CABLE TYPE 1
——COAX TYPE 2—	COXIAL CABLETYPE 2
——COAX TYPE 3—	COXIAL CABLETYPE 3
0047.25.4	000/141 0451 5 7/55 4

—COAX TYPE 4— COXIAL CABLE TYPE 4

COXIAL CABLETYPE 5

—COAX TYPE 5—

EXISTING TECHNOLOGY SYMBOLS		
SYMBOL	DESCRIPTION	
AP	EXISTING WIRELESS ACCESS CONNECTION POINT	
PRJ	EXISTING WIRELESS ACCESS CONNECTION POINT	
CAM	EXISTING WIRELESS ACCESS CONNECTION POINT	
AED ▽	EXISTING WIRELESS ACCESS CONNECTION POINT	
AP ▽	EXISTING ACCESS CONNECTION POINT	
AVC	EXISTING AN AUDIO/ VIDEO CONTROL PLATE	
CAM	EXISTING A CAMERA CONTROL PLATE	
DX ▽	EXISTING OUTLET NETWORK CONNECTION	

EXISTING OUTLET TV CONNECTION

EXISTING FLOOR BOX FOR NETWORK CONNECTION

SHEET INDEX

SHEET NO.	DESCRIPTION
T-001	TELECOMMUNICATIONS LEGEND AND NOTES
T-200	TELECOMMUNICATIONS SITE PLAN
T-211	LEVEL 1 TELECOMMUNICATIONS PLAN - OVERALL
T-213A	LEVEL 1 TELECOMMUNICATIONS - AREA B FURNITURE PLAN
T-213B	LEVEL 1 TELECOMMUNICATIONS - AREA B
T-214	LEVEL 2 TELECOMMUNICATIONS PLAN - OVERALL
T-216A	LEVEL 2 TELECOMMUNICATIONS - AREA B FURNITURE LAYOUT
T-216B	LEVEL 2 TELECOMMUNICATIONS - AREA B
T-401	TELECOMMUNICATIONS ENLARGED PLAN AT MDF
T-402	TELECOMMUNICATIONS ENLARGED PLAN AT IDF W205.4
T-403	ENLARGED PLAN AT RIDF
T-411	TELECOMMUNICATIONS ELEVATIONS
T-501	TELECOMMUNICATIONS DETAILS
T-601	TELECOMMUNICATIONS CONSOLE SCHEDULES
T-701	TELECOMMUNICATIONS RADIO ONE LINES

RESPONSIBILITY MATRIX - TELECOM

	TELECOMMUNICATIONS RESPONSIBILITY MATRIX	PROPRIETARY	OPEN SPEC (OR EQUAL)	OP/OI OWNER PURCHASED/OWNER INSTALLED	OP/CI OWNER PURCHASED/CONTRACTOR INSTALLED	CP/CI CONTRACTOR PURCHASED/CONTRACTOR INSTALLED	CP/OI CONTRACTOR PURCHASED/OWNER INSTALLED	SPECIFICATION
	HAS Network Switches	X				X		272100
	Sructured Cabling	X				X		272100
	Motorola Radio Consoles	X				X		276300
	Radio Phone Combiners	X				X		-
	Nice Logger for all Communications	X				X		276300
	HAS Workstations	X				X		272200
	HAS Workstations LED	X				X		272200
	IP Phone	X				1	Х	272100
Ⅎ	Wireless Accee Points	X				X		272100
g	Integrated Crash Phone	Х				11	Х	272100
S	Integratated TSA Breach Phone	X				}	Х	272100
ᅙ	Integrated Elevator Phone	X				{	Х	272100
TELECOMMUNICATIONS EQUIP	Integrated TSA Direct Line	Х		Х		\$		
	Sat Phone		Х			1		276100
≦	Sat Phone, Docking Staion, Antenna, Transmission Line		Х			Х		
Σ	TSA Network Switch	Х		Х		}		
ŭ	TSA Workstation	Х		Х		}		
ΞE	TSA Workstations LED	Х		Х		}		
•	TSA Radio	Х		Х		5		276100
	TSA Antenna and Transmission Line		Х			χ		
	HPD Network Switch	Х				<u> </u>	Х	
	HPD Radio	Х		Х		\{		276100
	HPD Antenna and Transmission Line		Х			X		
	HPD Workstation			Х		\\\ \\\\ _\\\\ \\ \\ \\ \\ \\ \\ \		
	HPD Workstations LED	Х		Χ				DIVISION 26
	Floor Boxes, Poke Thrus		Х			x }		

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

CENTER PN793 A.I.P. No. N/A D.O.A. No.

BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

IAH INTEGRATED COORDINATION





2022.013 DESIGNER PROJECT No.: PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 PERMIT COMMENTS 1 10/26/2022 **PERMIT COMMENTS 2** 11/11/2022 **ISSUE FOR BID &** 05/05/2023 CONSTRUCTION 06/08/2023 **ISSUE FOR BID**

DESIGN BY: DRAWN BY: CHECKED BY: 06/08/2023 ISSUE DATE: APPROVED BY: 06/08/2023 APPROVAL DATE:

DIRECTOR

HOUSTON AIRPORT SYSTEM

Drawing Status

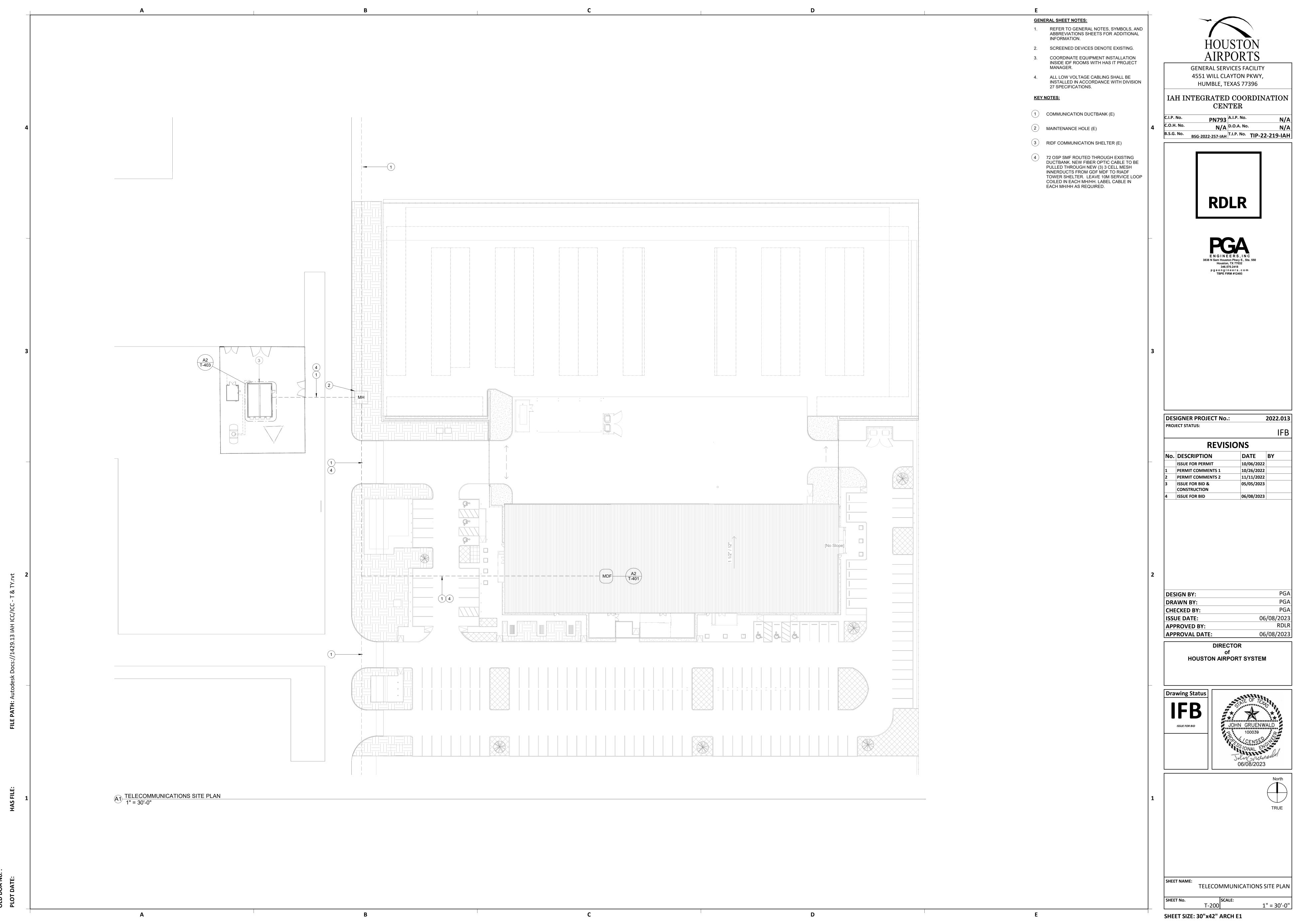
ISSUE FOR BID



SHEET NAME:
TELECOMMUNICATIONS LEGEND AND NOTES

12" = 1'-0"

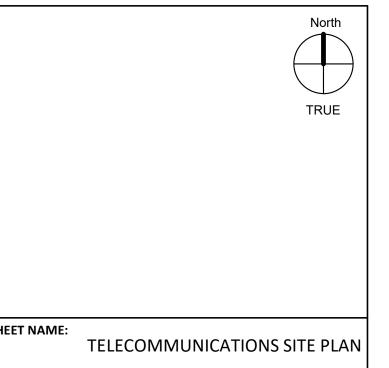
SHEET SIZE: 30"x42" ARCH E1	



DES	IGNER PROJECT No.:		2022.01		
PROJ	ECT STATUS:				
			IFB		
REVISIONS					
No.	DESCRIPTION	DATE	BY		
	ISSUE FOR PERMIT	10/06/2022			
1	PERMIT COMMENTS 1	10/26/2022			
2	PERMIT COMMENTS 2	11/11/2022			
3	ISSUE FOR BID & CONSTRUCTION	05/05/2023			
4	ISSUE FOR BID	06/08/2023			

DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
ΔΡΡΡΟΥΔΙ ΠΔΤΕ·	06/08/2023

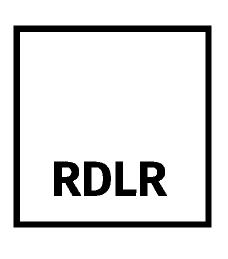






IAH INTEGRATED COORDINATION

N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



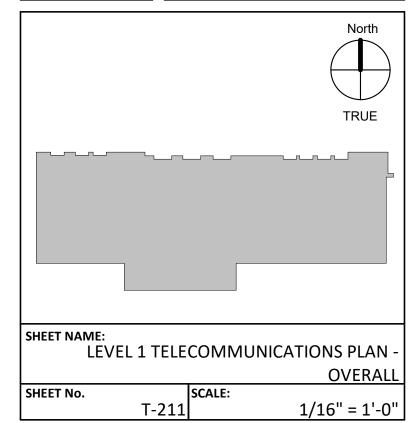


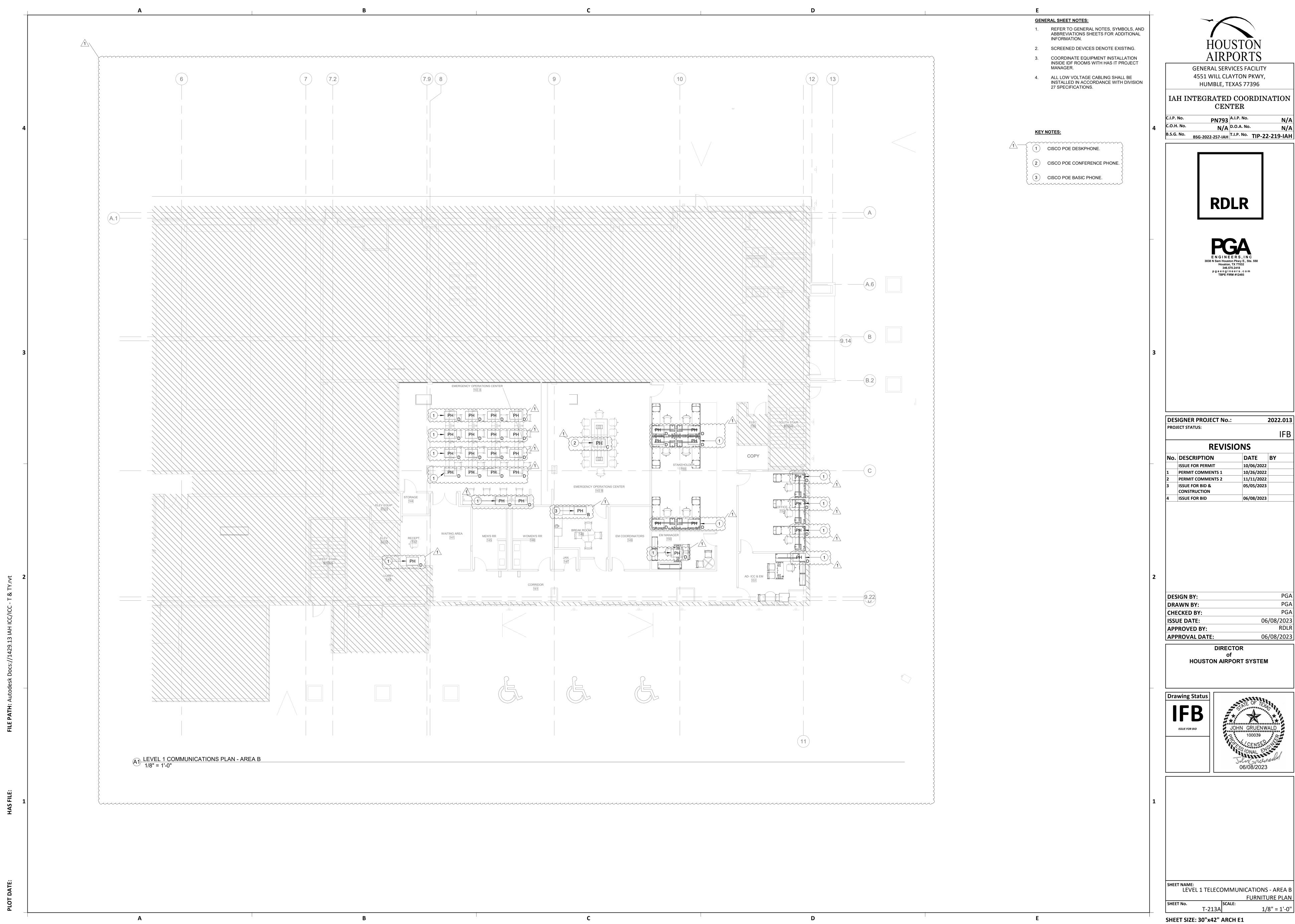
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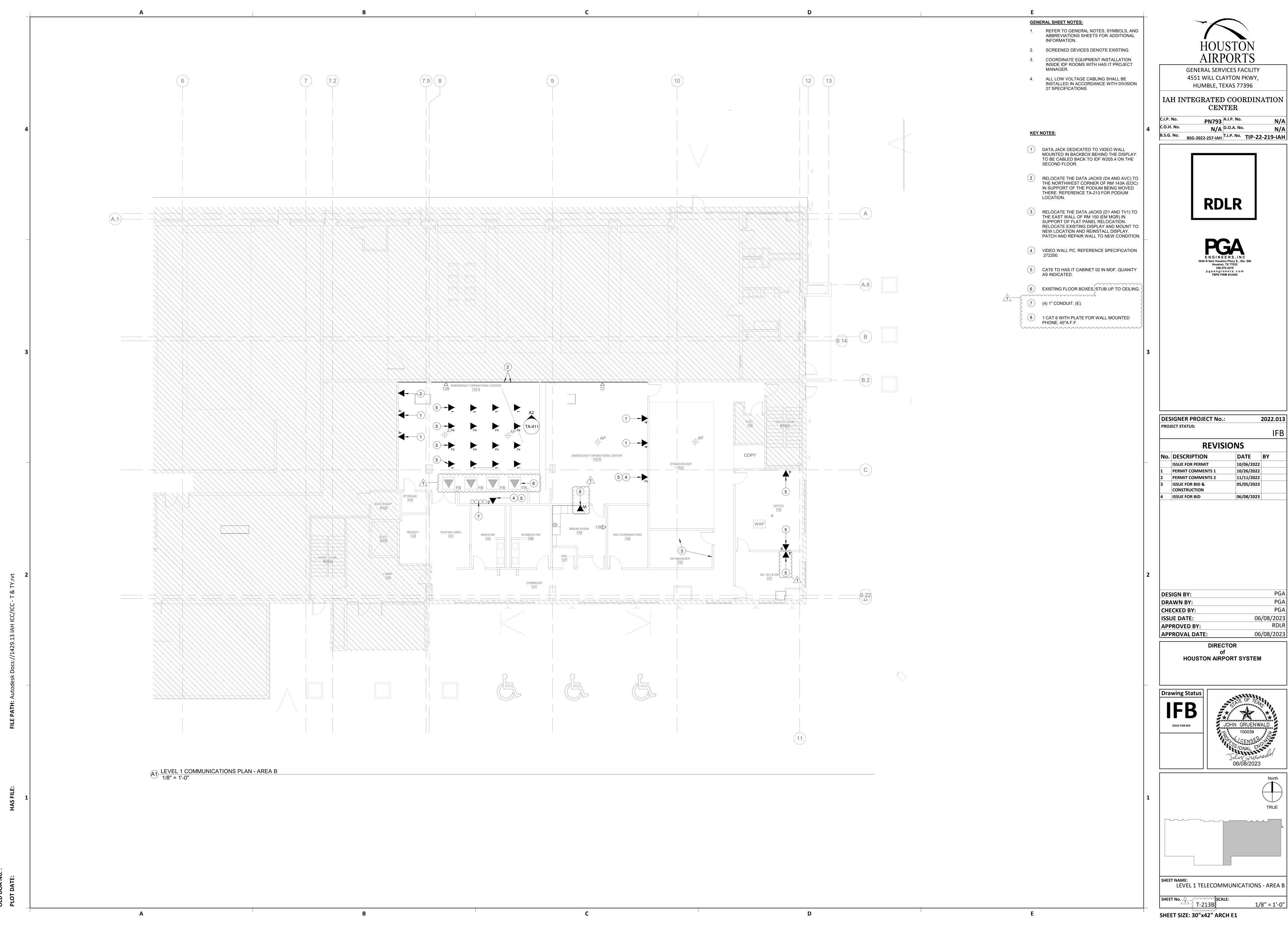
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DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

HOUSTON AIRPORT SYSTEM







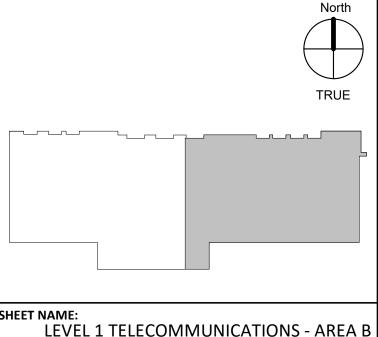


BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

2022.013 IFB

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HECKED BY:	PG/
SUE DATE:	06/08/202
PPROVED BY:	RDLI
PPROVAL DATE:	06/08/202
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C5 (C4) (C2) (C3) 0 0.9 1 7 (7.2) 7.9 8 (A.1)—/ IDF A2 W205.4 T-402 A1 LEVEL 2 COMMUNICATIONS PLAN - OVERALL 1/16" = 1'-0"

GENERAL SHEET NOTES:

REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.

SCREENED DEVICES DENOTE EXISTING.

4. ALL LOW VOLTAGE CABLING SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27 SPECIFICATIONS.

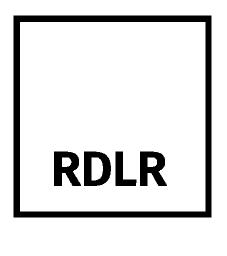
COORDINATE EQUIPMENT INSTALLATION INSIDE IDF ROOMS WITH HAS IT PROJECT MANAGER.

> 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION CENTER

GENERAL SERVICES FACILITY

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





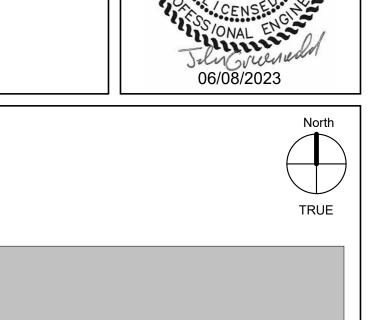
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PROJ	ECT STATUS:		IFB			
REVISIONS						
No.	DESCRIPTION	DATE	ВҮ			
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1	PERMIT COMMENTS 1	10/26/2022				
2	PERMIT COMMENTS 2	11/11/2022				
3	ISSUE FOR BID & CONSTRUCTION	05/05/2023				
4	ISSUE FOR BID	06/08/2023				

DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

DIRECTOR HOUSTON AIRPORT SYSTEM

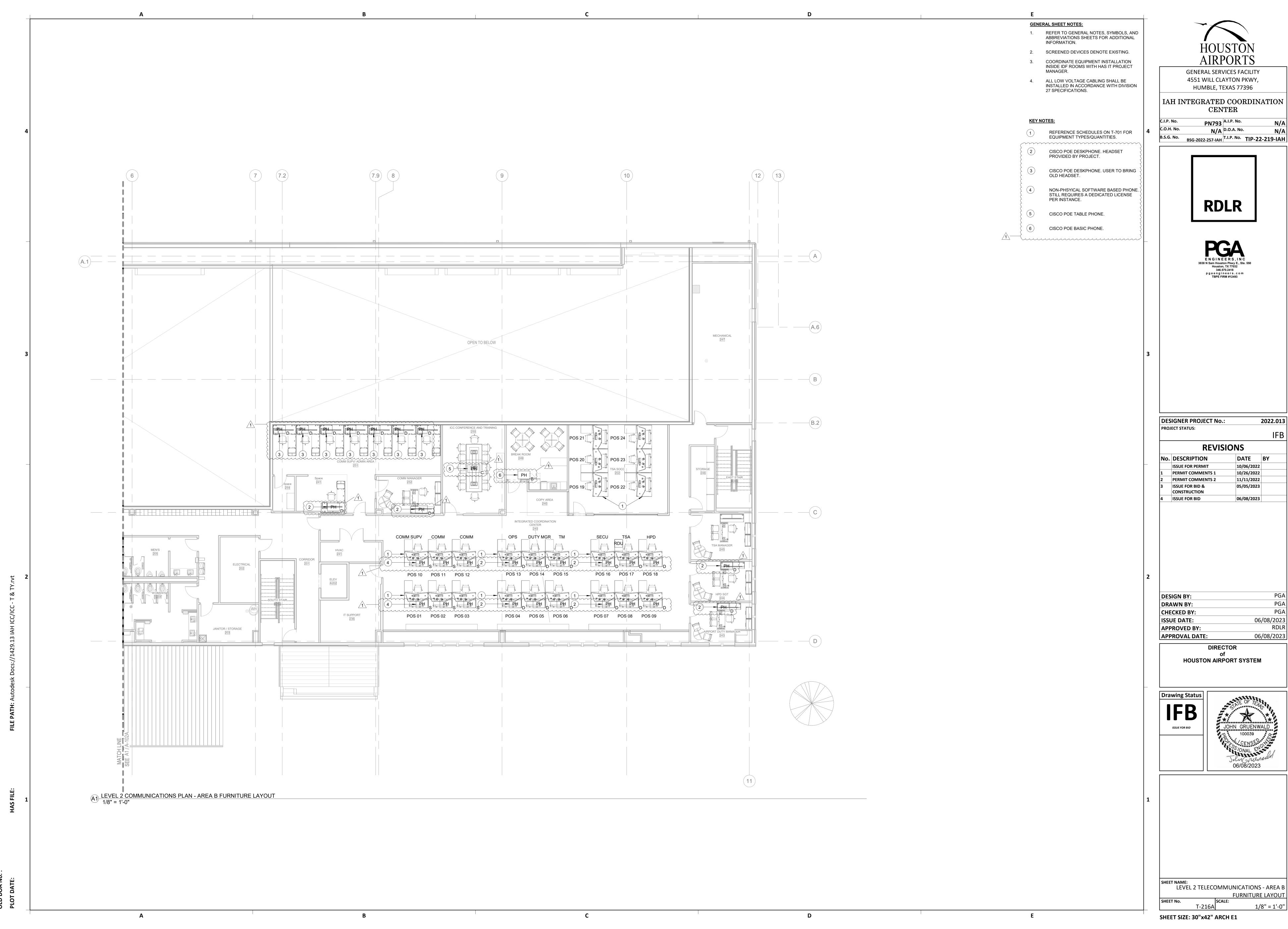
Drawing Status





SHEET NAME:
LEVEL 2 TELECOMMUNICATIONS PLAN -

1/16" = 1'-0"

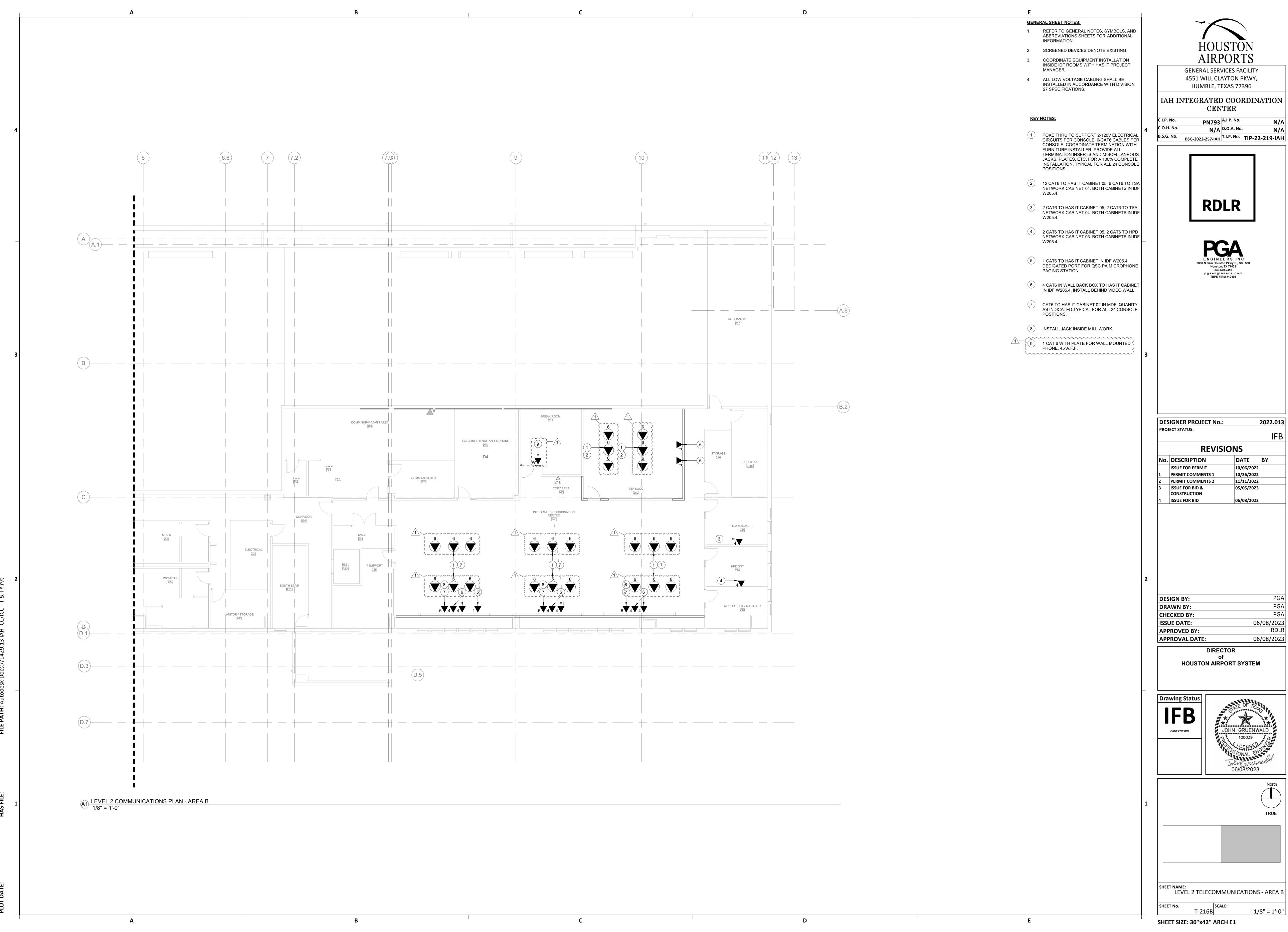


2022.013 DATE BY

ESIGN BY:	PGA
PRAWN BY:	PGA
HECKED BY:	PGA
SSUE DATE:	06/08/2023
PPROVED BY:	RDLR
PPROVAL DATE:	06/08/2023

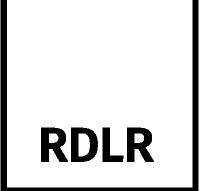


SHEET NAME:
LEVEL 2 TELECOMMUNICATIONS - AREA B



GENERAL SERVICES FACILITY

PN793 A.I.P. No. N/A D.O.A. No.





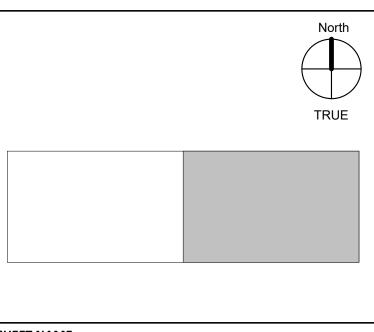
2022.013 **REVISIONS** DATE BY 10/06/2022 10/26/2022 11/11/2022 05/05/2023 06/08/2023

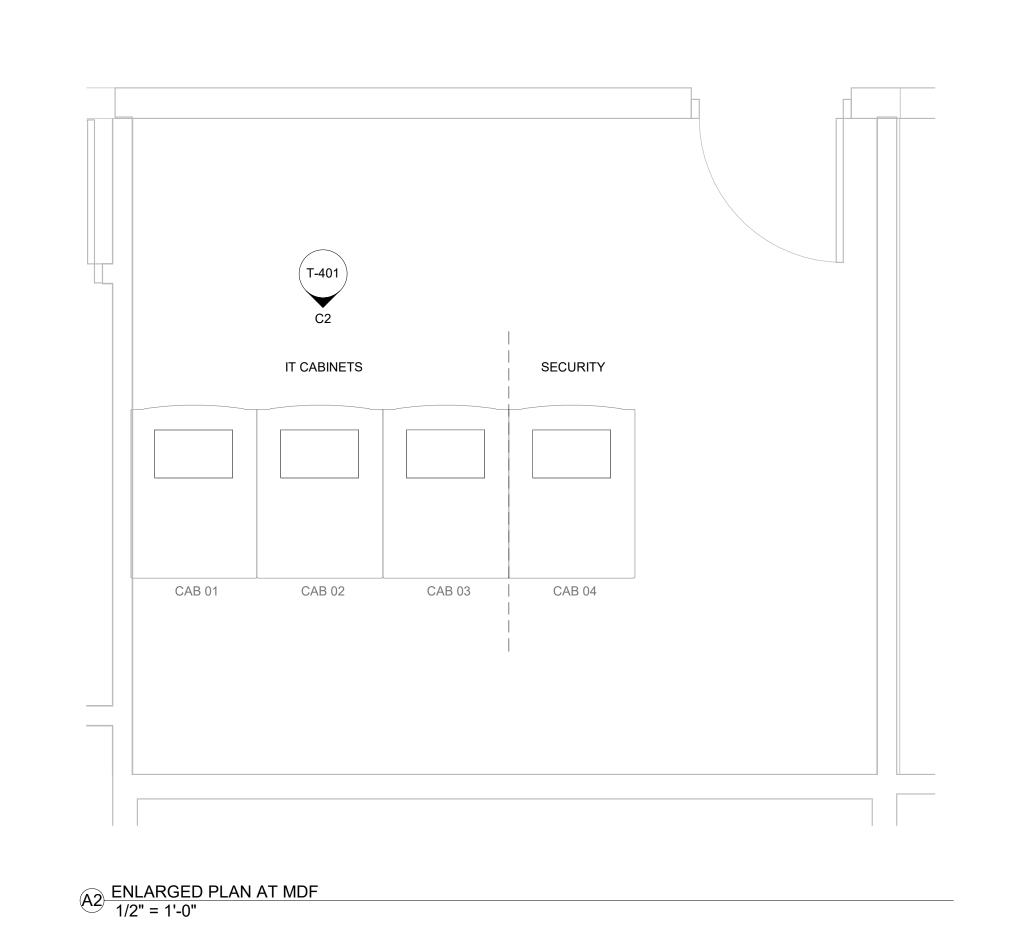
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DRAWN BY:	PGA
CHECKED BY:	PGA
SSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023
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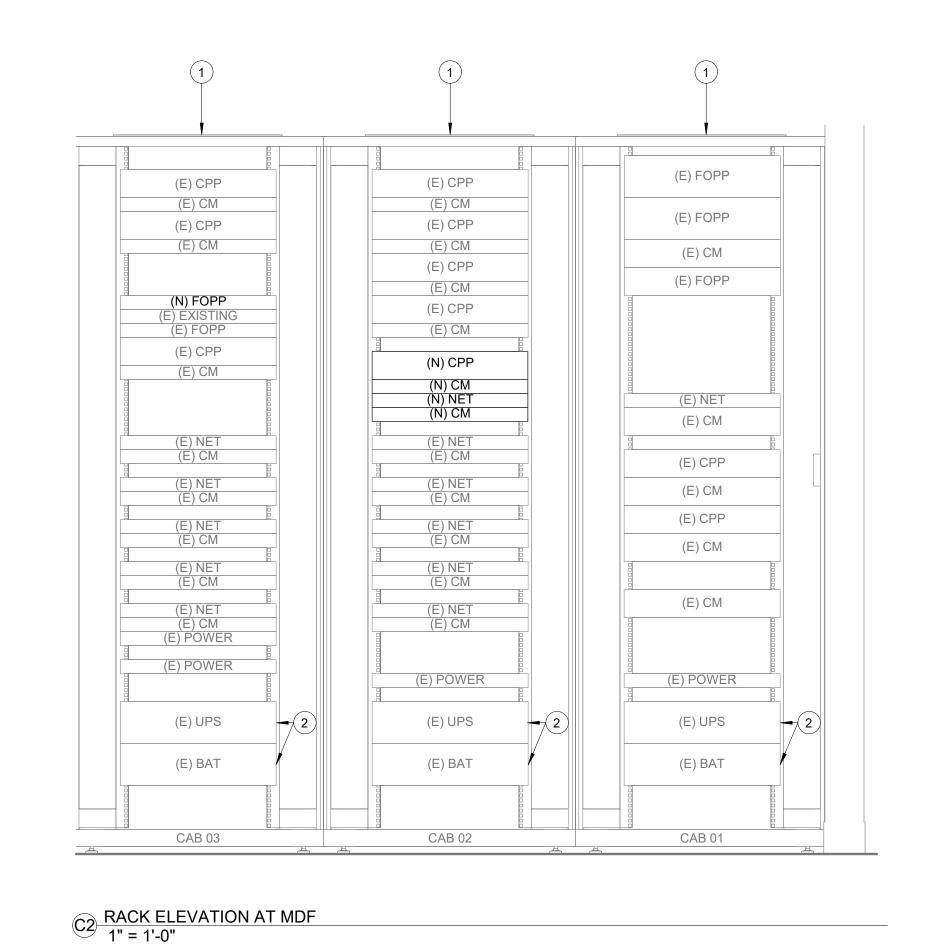
HOUSTON AIRPORT SYSTEM



1/8" = 1'-0"







GENERAL SHEET NOTES:

REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.

SCREENED DEVICES DENOTE EXISTING.
 (E) DENOTE EXISTING.
 (N) DENOTE NEW.
 (OF) DENOTE OWNER FURNISHED.

COORDINATE EQUIPMENT INSTALLATION INSIDE IDF ROOMS WITH HAS IT PROJECT MANAGER.

4. ALL LOW VOLTAGE CABLING SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27 SPECIFICATIONS.

KEY NOTES:

1 STANDARD NETWORK CABINET. (E)

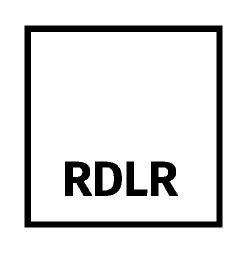
2 REMOVE UPS AND RETURN TO HAS IT AFTER NEW ICC UPS IS INSTALLED AND COMMISSIONED.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

IAH INTEGRATED COORDINATION CENTER

HUMBLE, TEXAS 77396

N/A	D.O.A. No.	N
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G-2022-257-IAH	T.I.P. No.	TIP-22-219-I
	•	GG-2022-257-IAH T.I.P. No.

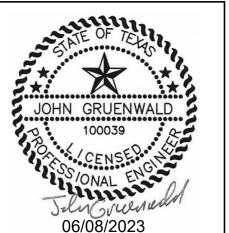


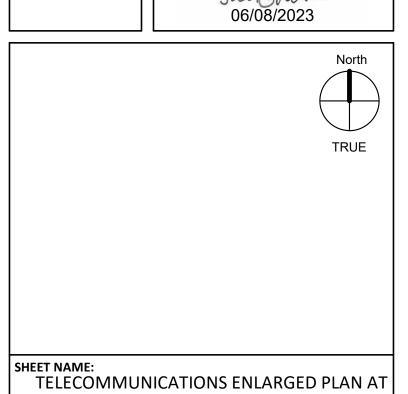


DES	IGNER PROJECT No.:		2022.013
PROJ	ECT STATUS:		ובס
			IFB
	REVISI	ONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
1	PERMIT COMMENTS 1	10/26/2022	
2	PERMIT COMMENTS 2	11/11/2022	
3	ISSUE FOR BID &	05/05/2023	
	CONSTRUCTION		
4	ISSUE FOR BID	06/08/2023	

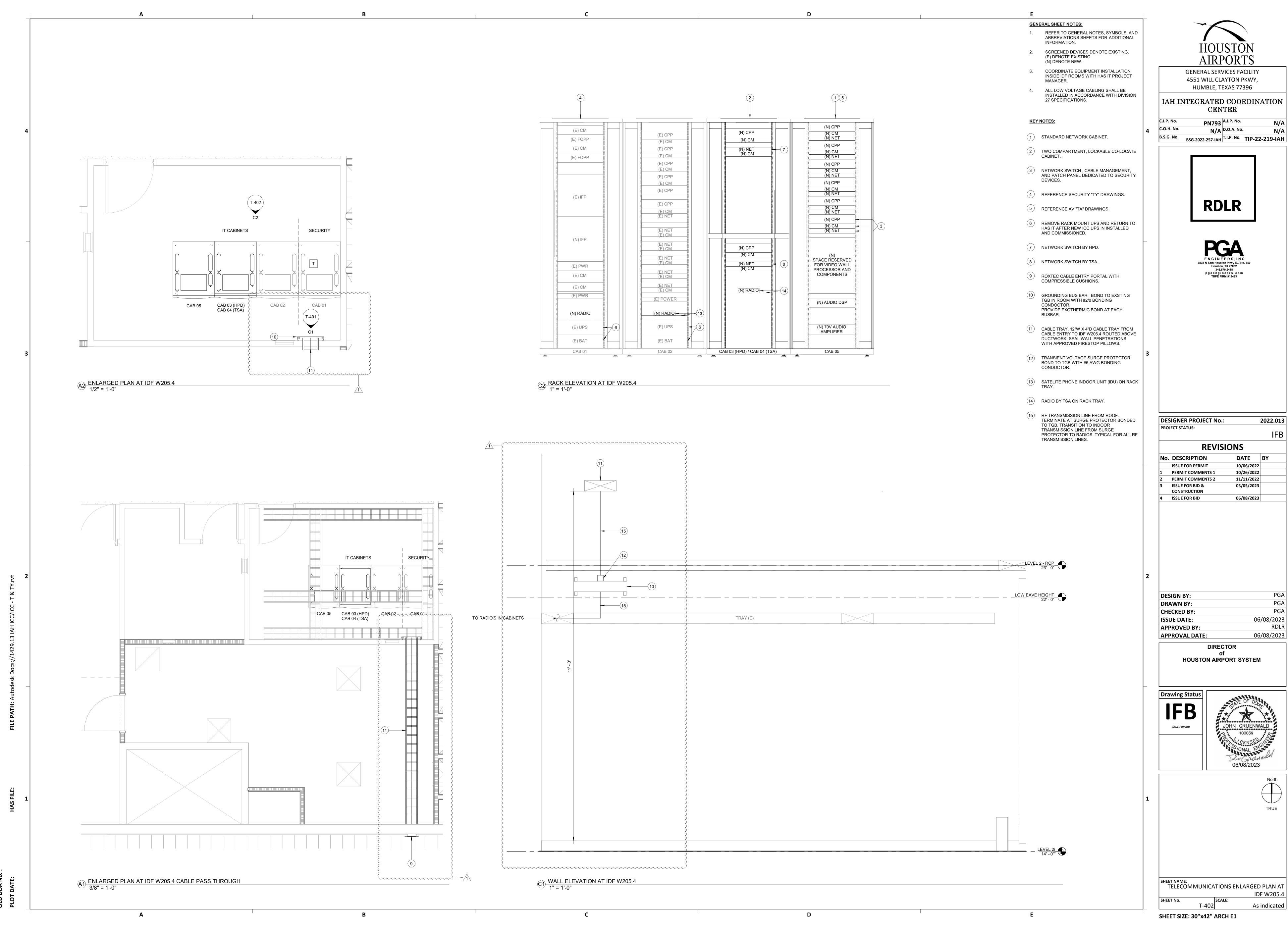
DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM



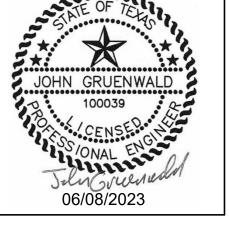


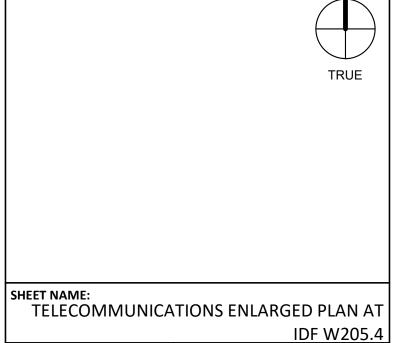
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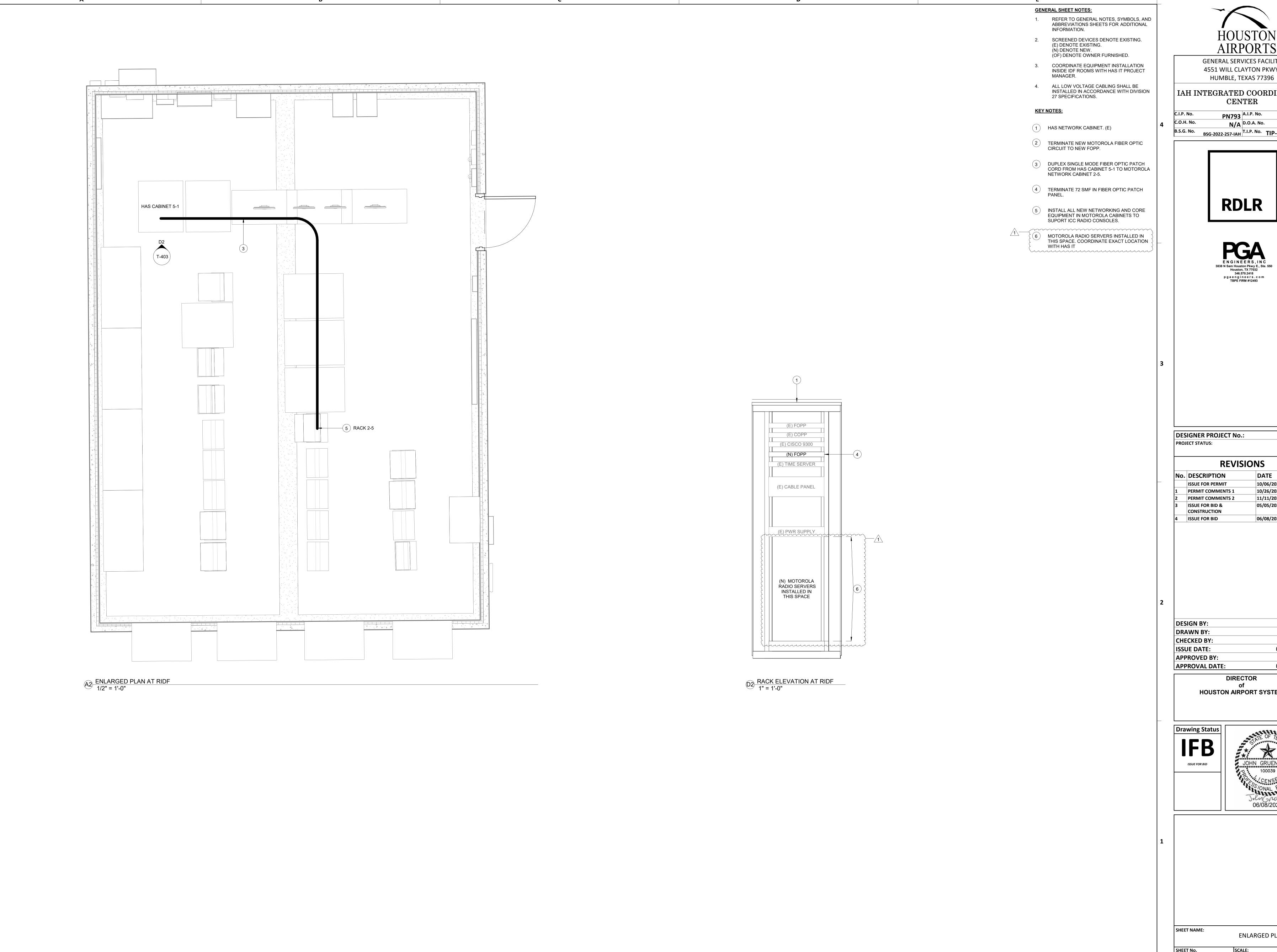


2022.013 IFB

06/08/2023 RDLR





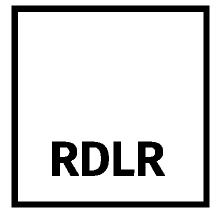


GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

IAH INTEGRATED COORDINATION

CENTER

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

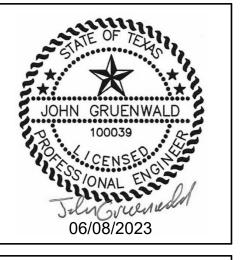




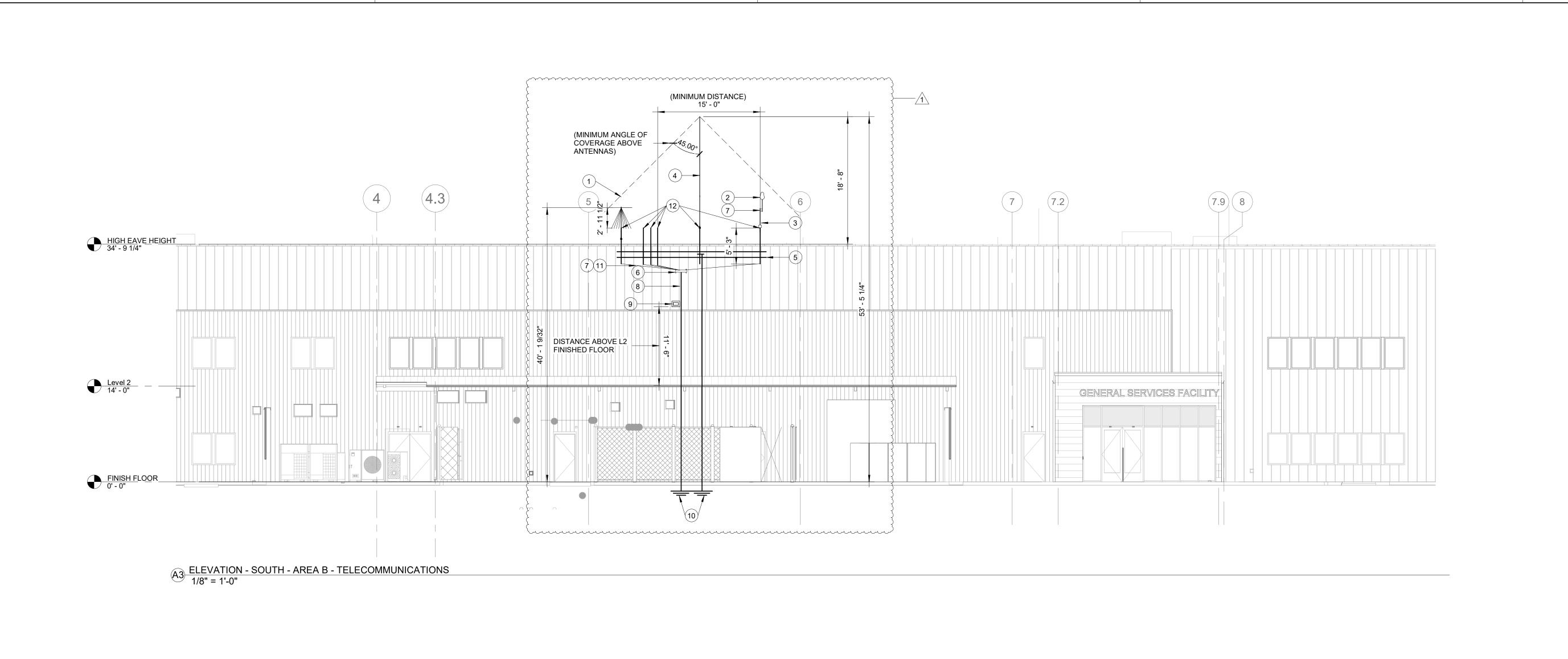
2022.013 **DESIGNER PROJECT No.:** IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 11/11/2022 PERMIT COMMENTS 2 05/05/2023 ISSUE FOR BID & CONSTRUCTION ISSUE FOR BID 06/08/2023

PGA
PGA
PGA
06/08/2023
RDLR
06/08/2023

DIRECTOR HOUSTON AIRPORT SYSTEM



ENLARGED PLAN AT RIDF As indicated



GENERAL SHEET NOTES:

THESE DRAWINGS ARE TO SHOW GENERAL SCOPING INFORMATION. FINAL DESIGN TO PROVIDE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL

REFERENCE E, T, TA, TY DRAWINGS FOR ADDITIONAL TECHNOLOGY SCOPING.

KEY NOTES:

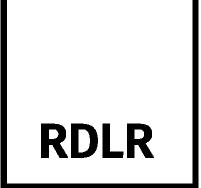
- TSA TRI-BAND ANTENNA.
- SAT PHONE ANTENNA.
- SAT PHONE OUTDOOR UNIT (ODU) TRANSCEIVER.
- LIGHTNING AIR TERMINAL MOUNTED AT HEIGHT TO PROVIDE 45 DEG PROTECTION CONE OVER OTHER ANTENNAS.
- 20' WALL MOUNT ANTENNA FRAME. BOND TO EARTH GROUND AND BUILDING STEEL. PROVIDE BLOCKING ON INTERIOR WALL AT 16" INTERVALS FOR ADDITIONAL SUPPORT.
- TELECOMMUNICATIONS GROUNDING
 BUSBAR (TGB). BOND TO TGB IN IDF W205.4,
 BUILDING GROUND LOOP, LPS, AND
 BUILDING STEEL. SIZE 24" x 4" x 1/4". #4/0 BONDING CONDUCTOR. TRANSMISSION LINE GROUND KIT. BOND TO TGB AND SEAL WITH WATER PROOF TAPE.
- TYPICAL FOR EACH TRANSMISSION LINE INSTALLED.
- #4/0 BONDING CONDUCTOR IN A 1.5" CONDUIT. BOND SHALL BE EXOTHERMIC WELDED TO BUILDING GROUND RING. ALSO BOND TO EXISTING LPS ON ROOF AND TGB.
- ROXTEC CABLE ENTRY PORTAL WITH COMPRESSIBLE CUSHIONS. LOCATE ABOVE CEILING AND HVAC APPROXIMATLEY 11' ABOVE LEVEL 2 FINISHED FLOOR.
- GROUND ROD.
- #6AWG BONDING CONDUCTOR
- 2-3/8" OD X 5' SCHEDULE 40 PIPE USED FOR ANTENNA ATTACHMENT. 6 TOTAL. INCLUDE MOUTING HARDWARE AND 4 U-BOLTS PER PIPE. 2 FOR FRAME ATTACHMENT, 2 FOR ANTENNA ATTACHMENT.



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

IAH INTEGRATED COORDINATION CENTER

	1			
	C.I.P. No.	PN793	A.I.P. No.	N/A
4	C.O.H. No.	N/A	D.O.A. No.	N/A
	B.S.G. No.	BSG-2022-257-IAH	T.I.P. No.	TIP-22-219-IAH

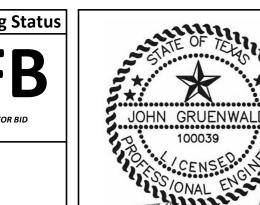


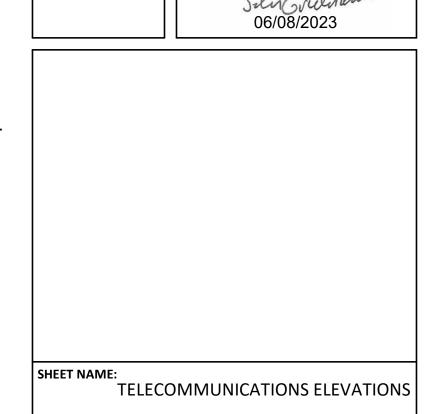


DES	SIGNER PROJECT No.:		2022.013
PROJ	ECT STATUS:		
			IFB
	REVISI	ONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
1	PERMIT COMMENTS 1	10/26/2022	
2	PERMIT COMMENTS 2	11/11/2022	
3	ISSUE FOR BID & CONSTRUCTION	05/05/2023	
4	ISSUE FOR BID	06/08/2023	

DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

HOUSTON AIRPORT SYSTEM

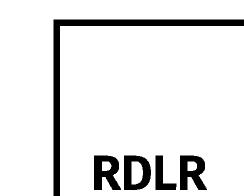




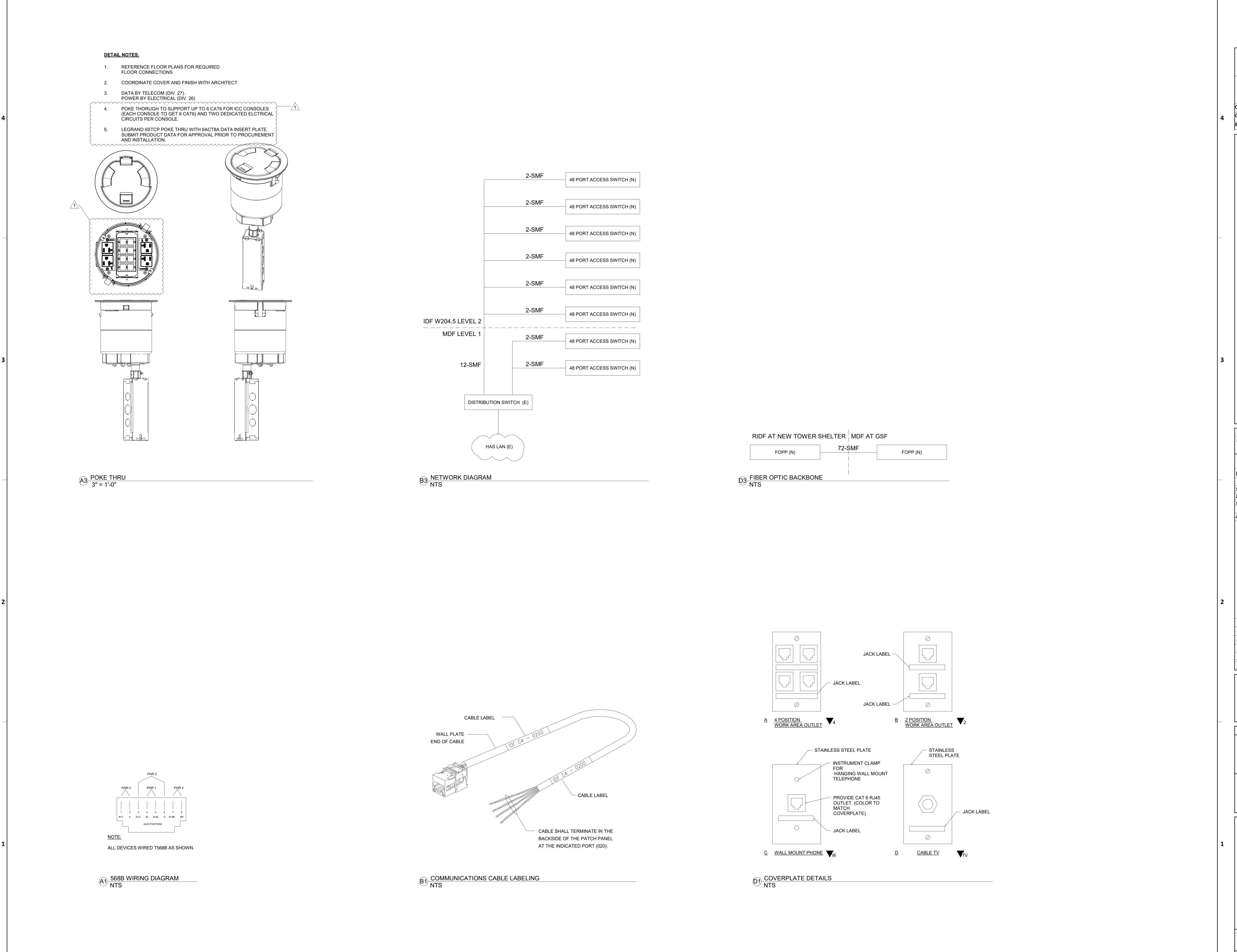
1/8" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

HUMBLE, TEXAS 77396





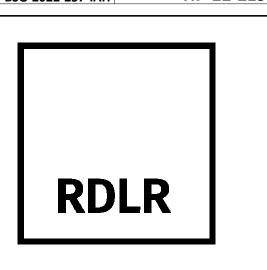


HOUSTON AIRPORTS ERAL SERVICES FACILITY

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION CENTER

C.I.P. No. PN793 A.I.P. No. N/A
C.O.H. No. N/A D.O.A. No. N/A
B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





2022.013 **DESIGNER PROJECT No.:** PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 11/11/2022 PERMIT COMMENTS 2 05/05/2023 **ISSUE FOR BID &** CONSTRUCTION **ISSUE FOR BID** 06/08/2023

DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

Drawing Status

IFB

ISSUE FOR BID



SHEET NAME:				
	TELEC	OMMU	NICATI	ONS DETAILS
SHEET No.		SCALE:		
JILLI NO.	T 501			As indicated

A1 FURNITURE BOM SOCC NTS

TELECOMMUNICATIONS RESPONSIBILITY MATRIX

272100

271300, 271500

276300

276300 272200

272200 272100

272100

272100

272100

272100

276100

276100

276100

DIVISION 26

POS HAS RADIO CONSOLE

B3 FURNITURE BOM ICC NTS

CP/CI

HAS RADIO PC

CP/CI

273600

TSA RADIO

276100

OP/OI

WORKSTATION

272200

CP/CI

SOFTPHONE

272100

CP/OI

HAS Network Switches

Sructured Cabling

HAS Workstations HAS Workstations LED

Wireless Accee Points

Integrated Crash Phone

Integrated Elevator Phone

Integrated TSA Direct Line

TSA Network Switch TSA Workstation TSA Workstations LED

HPD Network Switch

HPD Workstation

HPD Workstations LED

Floor Boxes, Poke Thrus

Integratated TSA Breach Phone

TSA Antenna and Transmission Line

HPD Antenna and Transmission Line

IP Phone

Sat Phone

TSA Radio

HPD Radio

Motorola Radio Consoles

Radio Phone Combiners

Nice Logger for all Communications

Sat Phone, Docking Staion, Antenna, Transmission Line

A3 RESPONSIBILITY MATRIX - TELECOM NTS

TSA VOIP, OP/OI **HAS RADIO PC** TSA RDU.MCD5000 BY TSA HAS WORKSTATION TSA WORKSTATION BY TSA INT TSA BREACH PHONE TSA VOIP PHONE BY TSA **HAS PHONE** MONITORS 2 PROJECT, 2 TSA 272200 276200 272200 272100 272200 CP/CI CP/CI CP/CI CP/CI OP/OI (HAS) OP/OI (HAS) CP/CI (HAS) OP/OI (TSA) OP/OI OP/OI OP/OI

D1 FURNITURE DETAIL SOCC 1/2" = 1'-0"

ALL CONSOLES IN SOCC TO HAVE 1 TSA PC (PC1) AND 2 MONITORS
EXCEPT AT POSITION 23. POSITION

PC2 23 TO HAVE ADDITIONAL HAS
SECURITY WORKSTATION (PC2)
AND 2 ADDITIONAL MONITORS.

TELECOMMUNICATIONS CONSOLE

C2 FURNITURE BOM EOC NTS

POS	POWER	USB	MONITORS	NOTES
SPEC	DIV 26	DIV 27	272200	
RESP	CP/CI	CP/CI	CP/CI	
1	1	1	1	POWER AND USB BY ELECTIRCAL
2	1	1	1	POWER AND USB BY ELECTIRCAL
3	1	1	1	POWER AND USB BY ELECTIRCAL
4	1	1	1	POWER AND USB BY ELECTIRCAL
5	1	1	1	POWER AND USB BY ELECTIRCAL
6	1	1	1	POWER AND USB BY ELECTIRCAL
7	1	1	1	POWER AND USB BY ELECTIRCAL
8	1	1	1	POWER AND USB BY ELECTIRCAL
9	1	1	1	POWER AND USB BY ELECTIRCAL
10	1	1	1	POWER AND USB BY ELECTIRCAL
11	1	1	1	POWER AND USB BY ELECTIRCAL
12	1	1	1	POWER AND USB BY ELECTIRCAL
13	1	1	0	EOC TABLE: POWER AND USB BY ELECTIRCAL

SOFTPHONE HEADSET | CRASH / BREACH...

272100

CP/OI

272100

CP/OI

MONITORS 272200 CP/CI 4

PC2 (SOFTPHONE, EMAIL, ETC.) RADIO -PC1 (SEC) PC1 (SEC)

D3 FURNITURE DETAIL ICC 1/2" = 1'-0"

D2 FURNITURE DETAIL EOC 1/2" = 1'-0"

DESIGN BY: DRAWN BY: CHECKED BY: 06/08/2023 **ISSUE DATE:** APPROVED BY

DESIGNER PROJECT No.:

REVISIONS

PROJECT STATUS:

No. DESCRIPTION

ISSUE FOR PERMIT

ISSUE FOR BID & CONSTRUCTION

ISSUE FOR BID

PERMIT COMMENTS 1

PERMIT COMMENTS 2

APPROVAL D

HOUS

Drawing Statu

SHEET SIZE: 30"x42" ARCH E1

N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH **RDLR** ENGINEERS, INC

3838 N Sam Houston Pkwy E., Ste. 550 Houston, TX 77032 346.570.2418

pgaengineers.com TBPE FIRM #12493

2022.013

DATE BY

10/06/2022

10/26/2022

11/11/2022 05/05/2023

06/08/2023

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

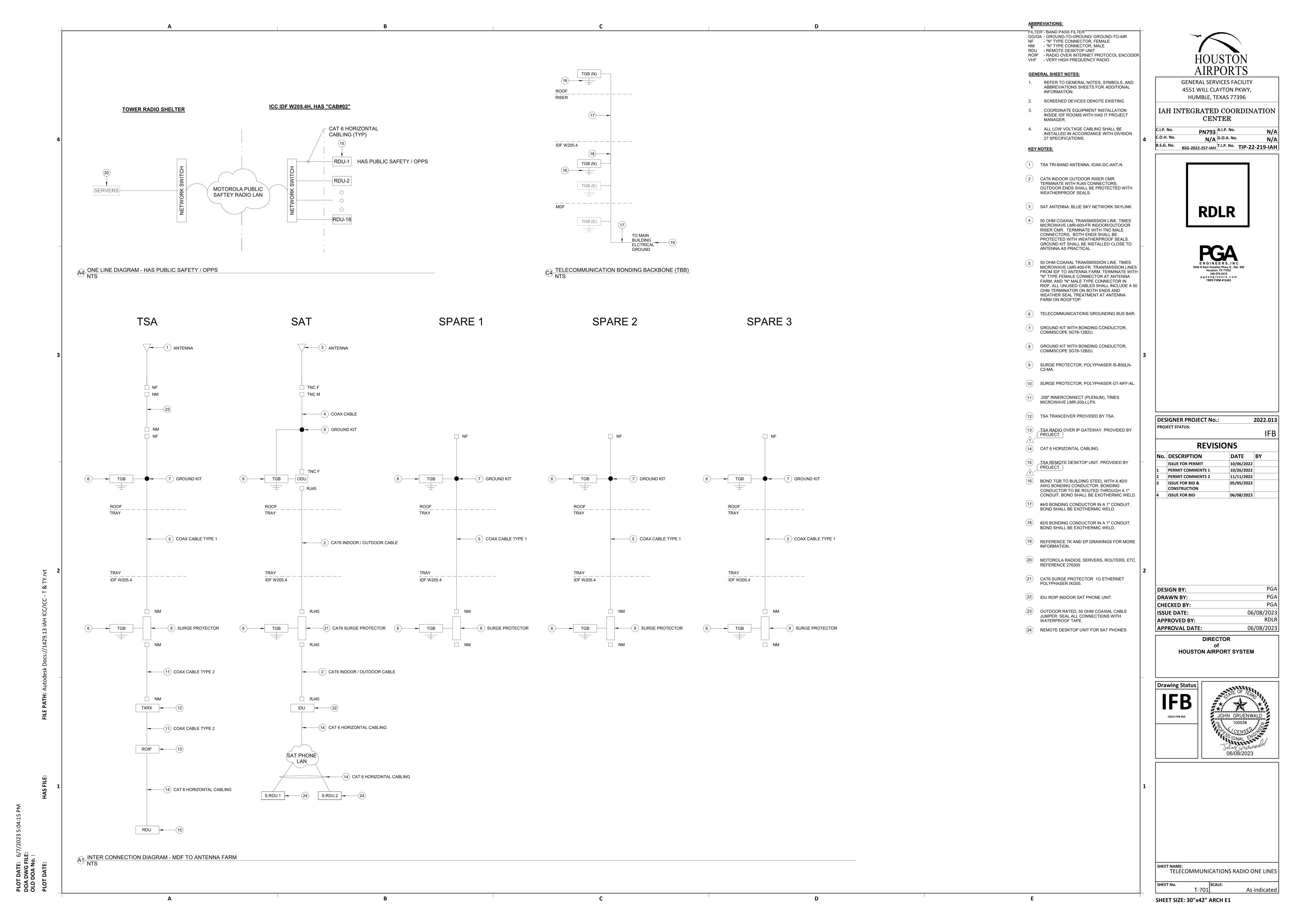
IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No.

		00/00/2023
JOHN GRUENWALD 100039 100039 100039 100039 100039 100039 100039	Y:	RDLR
JOHN GRUENWALD 100039 CENSES JOHN GRUENWALD 100039 CENSES JOHN GRUENWALD JOHN GRUENWALD 100039	ATE	: 06/08/2023
JOHN GRUENWALD 100039 CENSED AND JUNEAU	STO	of
JOHN GRUENWALD 100039 CENSED AND JUNEAU	us	- 444
		2 · · · · · · · · · · · · · · · · · · ·

SCHEDULES

As indicated



STB

VCC

QSC

A/V EQUIPMENT SYMBOLS LIST

TYPE

AUDIO AMPLIFIER

WIRELESS VIDEO ANTENNA

AV FLOORBOX TYPE 1

AV FLOORBOX TYPE 2

AUDIO VIDEO JACK: HDMI / DISPLAYPORT

SYMBOL

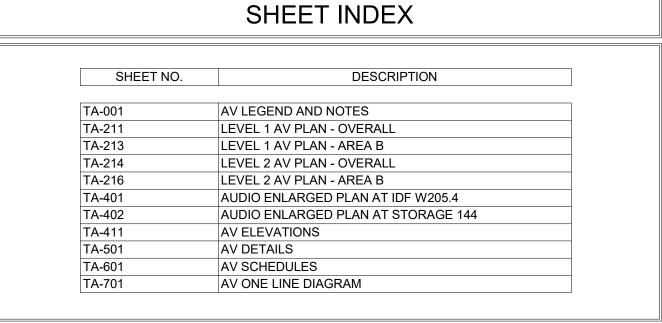
AA

ANT

AV1

	ABBI	REVIA	TION
	AUDIO		INDUSTRY TERMS
AA	AUDIO AMPLIFIER	ADA	AMERICANS WITH DISABILITIES ACT
AEC	AUTO ECHO CANCELATION.	AFF	ABOVE FINISHED FLOOR
ALD	ASSITIVE LISTENING DEVICE	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
DSP	DIGITAL SOUND PROCESSOR	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
MIC	MICROPHONE	AVCS	AUDIO VIDEO CONTROL SYSTEM
PA	POWER AMPLIFIER	AVI	AUDIO VISUAL INTEGRATOR
SP	SPEAKER	BIM	BUILDING INFORMATION MODELING
WMS	WIRELESS MICROPHONE SYSTEM	CAD	COMPUTER AIDED DESIGN
'	VIDEO	CADD	COMPUTER AIDED DESIGN AND DRAFTING
CCTV	CLOSED CIRCUIT TELEVISION	CEA	CONSUMER ELECTRONICS ASSOCCIATION
CAM	CAMERA	CEDIA	CUSTOM ELECTRONIC DESIGN AND INSTALLATION ASSOCCIATION
CCU	CAMRA CONTROL UNIT	CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
DA	DISTRIBUTION AMPLIFIER	ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
EDID	EXTENDED DISPLAY IDENTIFICATION DATA	NCS	NATIONAL CAD STANDARD
FP	FLAT PANEL DISPLAY	NEC	NATIONAL ELECTRIC CODE
HDBT	HDBASET (VIDEO STANDARD)	NEM	NATIONAL EQUIPMENT MANUFACTURER'S ASSOCCIATION
HDCP	HIGH-BANDWIDTH DIGITAL CONTENT PROTECTION	NIBS	NATIONAL INSTITUTE OF BUILDING SCIENCES
HDMI	HIGH-DEFINITION MULTIMEDIA INTERFACE	RCP	REFLECTED CEILING PLAN
LEN	CAMERA LENS	SIA	SECURITY INDUSTRY ASSOCCIATION
TUN	TUNER	UDS	UNIFORM DRAWING SYSTEM
VS	VIDEO MATRIX SWITCHER		NETWORK
	EQUIPMENT HARDWARE	AVLAN	AUDIO VISUAL LOCAL AREA NETWORK
ANT	ANTENNA	BLAN	BUSINESS LOCAL AREA NETWORK
AVC	A/V EQUIPMENT CABINET	CAT	PHYSICAL LAYER CATEGORY NETWORK CABLE
FPM	FLAT PANEL MOUNT	DANTE	DIGITAL AUDIO NETWORK THROUGH ETHERNET
IDF	INTERMEDIATE DISTRIBUTION FRAME	LAN	LOCAL AREA NETWORK
LEC	LECTERN	POE	POWER OVER ETHERNET
PMT	PROJECTOR MOUNT	VLAN	VIRTUAL LOCAL AREA NETWORK
RU	RACK UNIT (1.75") OF VERTICAL SPACE IN AN AV RACK	VOIP	VOICE OVER INTERNET PROTOCOL.
UPS	UNINTERRUPTIBLE POWER SUPPLY	WAN	WIDE AREA NETWORK
WRK	WALL RACK		

	COMMON WIRE TYPES					
TYPE	PART#	PLENUM	CONDUCTR COUNT	SHIELD	WIRE GAUGE	NOTES
MIC/LINE	BELDEN 8428	NO	2	1	18	
MIC/LINE	BELDEN 8412P	YES	2	1	20	
SPEAKER	BELDEN 5200UE	NO	2	0	16	
SPEAKER	BELDEN 6000UE	YES	2	0	12	
CATEGORY	BELDEN 7883A	NO	8	0	24	PATCH CABLE
CATEGORY	BELDEN 2413	YES	8	0	23	2400
CATEGORY	BELDEN 4813	YES	8	0	23	4800
CATEGORY	BELDEN 7953A	NO	8	1	23	SHIELDED
M. FIBER	CORNING 024T88-33190-D3	YES	24	N/A	50 μM	(OM4)
S. FIBER	CORNING 024E88-33131-D3	YES	24	N/A	8.2 µM	(OS2)



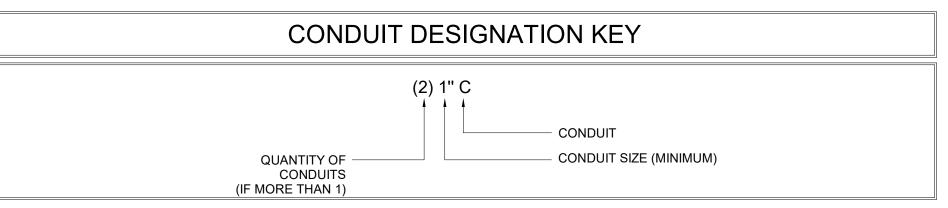
	AV ROOM LIST
ROOM NO.	DESCRIPTION
EOC E.	TRAINING ROOM WITH 4 X 2 NARROW BEZEL VIDEO WALL.
EOC W.	LARGE CONFERENCE ROOM WITH 4 X 2 NARROW BEZEL VIDEO WALL.
socc	TSA ROOM WITH 2 X 2 FLAT PANEL DISPLAY VIDEO WALL.
ICC	LARGE AREA ROOM WITH THREE FLOOR MOUNTED 4 X 2 NARROW BEZEL VIDEO WALLS.

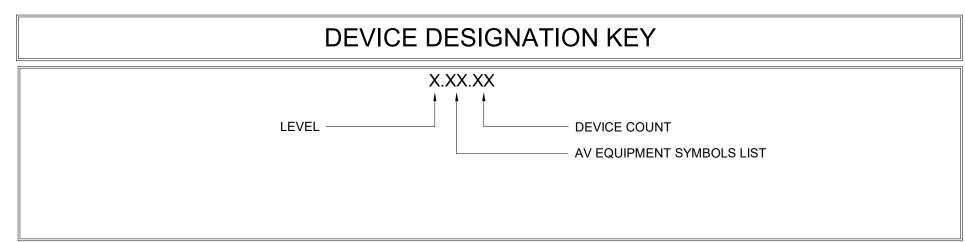
GENERAL NOTES

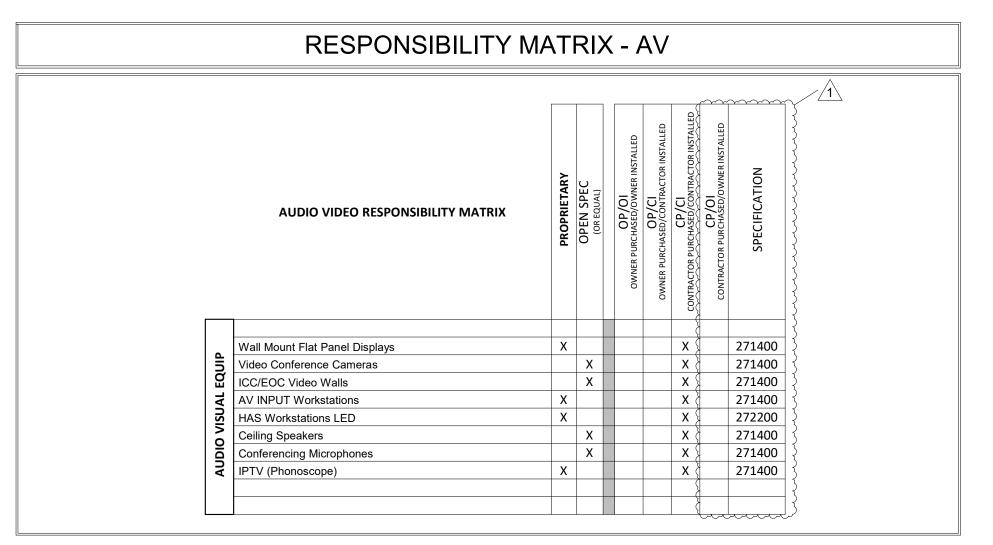
- 1. FOLLOW TELECOM STANDARDS AND PRACTICES. SEE DIVISION 27 SPECIFICATIONS AND DRAWINGS.
- 2. REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD) SUPERVISOR SHALL REVIEW, APPROVE AND STAMP ALL SHOP DRAWINGS. COORDINATE DRAWINGS AND RECORD DRAWINGS.
- 3. ALL WALL PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE STOPPING.

OTHERWISE.

- 4. 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.
- 5. REFER TO THE SITE PLAN ON AND RISER DIAGRAM FOR TELECOMMUNICATION BACKBONE CONDUITS/CABLES. FIELD
- COORDINATE EXACT ROUTING WITH OTHER TRADES.
- 6. ALL COMMUNICATIONS EQUIPMENT SHOWN SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS NOTED
- 7. 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. 8. ALL HORIZONTAL VOICE AND DATA CABLES SHALL BE DISTRIBUTED VIA MINIMUM 1" CONDUIT AND/OR CABLE TRAY. NO
- EXCEPTIONS.
- 9. 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. 11. REFER TO THE BID SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK.
- 12. PAINTING, PATCHING AND FINISHES FOR DEVICES LOCATED IN EXISTING AREAS SHALL MATCH EXISTING FINISHES AS
- 13. FINISHES OF DEVICES IN NEW/REMODEL AREAS SHALL BE APPROVED BY GC.
- 14. 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.
- 15. 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.
- 16. ALL TELECOMMUNICATIONS BACKBONE CONDUIT SHALL HAVE MESH INNER DUCT IN QUANTITIES AS LISTED; 2"C. 3 CELL, 4"C. - (2) 3 CELL





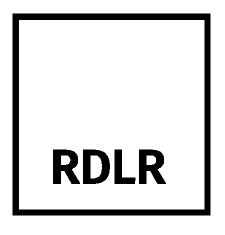




GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





DESIGNER PROJECT No.: 2022.013 PROJECT STATUS: IFB **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 PERMIT COMMENTS 1 10/26/2022 PERMIT COMMENTS 2 11/11/2022 **ISSUE FOR BID &** 05/05/2023 CONSTRUCTION **ISSUE FOR BID** 06/08/2023

DESIGN BY: DRAWN BY: CHECKED BY: 06/08/2023 ISSUE DATE: **RDLR APPROVED BY:** 06/08/2023 APPROVAL DATE:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

Drawing Status

ISSUE FOR BID



SHEET NAME: AV LEGEND AND NOTES

12" = 1'-0"

VIDEO CONFERENCING CODEC

PA MICROPHONE STATION.

DTV, SET TOP BOX

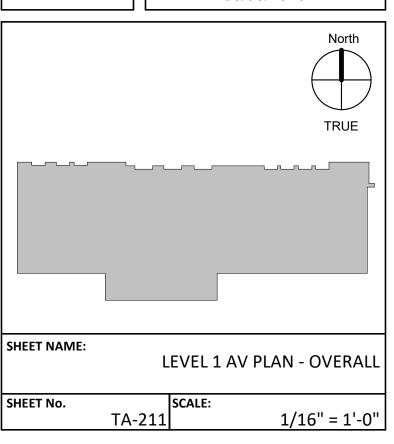
GENERAL SHEET NOTES: REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION. 2. SCREENED DEVICES DENOTE EXISTING. **AIRPORTS** GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396 IAH INTEGRATED COORDINATION CENTER PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH **RDLR** E N G I N E E R S , I N C

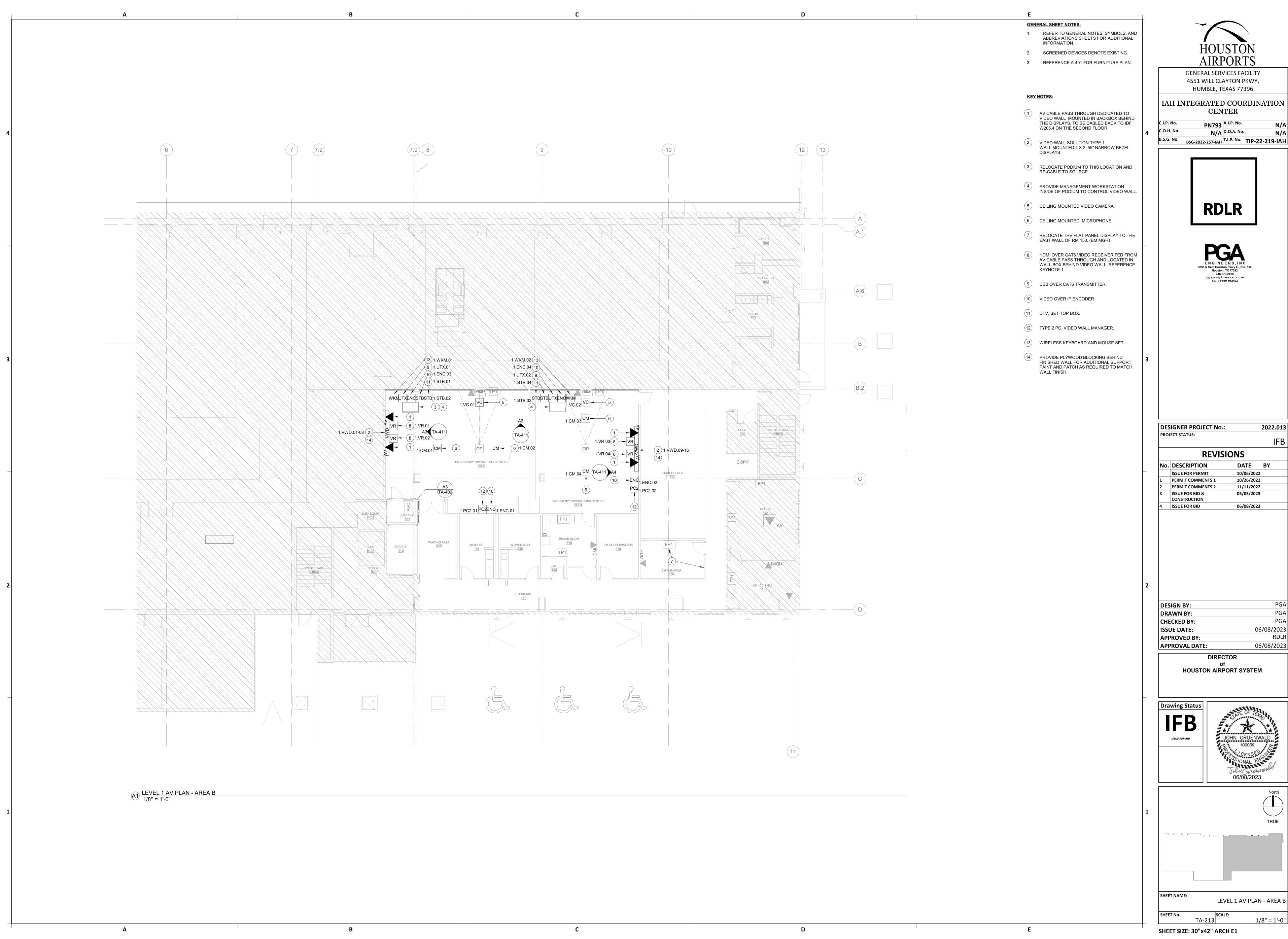
3838 N Sam Houston Pkwy E., Ste. 550
Houston, TX 77032
346.570.2418
p g a e n g i n e e r s . c o m
TBPE FIRM #12493 (C1)(C2) (C3) (C5) (C4) 0 (0.9) (1) **DESIGNER PROJECT No.:** PROJECT STATUS: **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 11/11/2022 **PERMIT COMMENTS 2** 05/05/2023 ISSUE FOR BID & CONSTRUCTION 06/08/2023 ISSUE FOR BID STORAGE 144 DIRECTOR HOUSTON AIRPORT SYSTEM **Drawing Status** 5.8 6 7.9 8 11 (12) (13) 0 0.9 1 5 5.1 JOHN GRUENWALD ISSUE FOR BID A1 LEVEL 1 AV PLAN - OVERALL 1/16" = 1'-0"

2022.013 IFB

PGA
PGA
PGA
06/08/2023
RDLR
06/08/2023





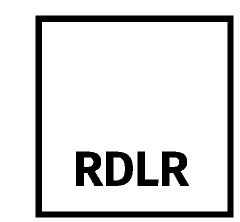




GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

HUMBLE, TEXAS 77396

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



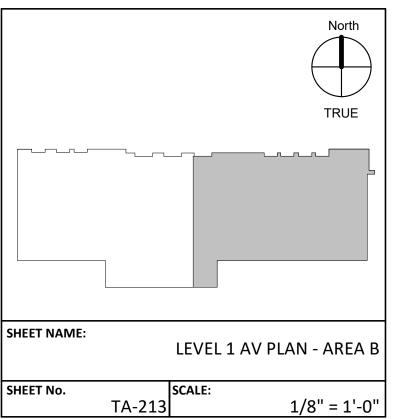


DESIGNER PROJECT No.: 2022.013 IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** PERMIT COMMENTS 1 10/26/2022 PERMIT COMMENTS 2 11/11/2022 05/05/2023 **ISSUE FOR BID &** CONSTRUCTION 06/08/2023

DIDEAGA	
APPROVAL DATE:	06/08/2023
APPROVED BY:	RDLR
SSUE DATE:	06/08/2023
HECKED BY:	PGA
PRAWN BY:	PGA
DESIGN BY:	PGA

DIRECTOR **HOUSTON AIRPORT SYSTEM**





C5 C4 (C2) (C3) 0 0.9 1 7 (7.2) 7.9 8 (A.1)—/ D.5 7.9 8 A1 LEVEL 2 AV PLAN - OVERALL 1/16" = 1'-0"

HOUSTON

HOUSTON AIRPORTS
GENERAL SERVICES FACILITY

4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

GENERAL SHEET NOTES:

REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.

2. SCREENED DEVICES DENOTE EXISTING.

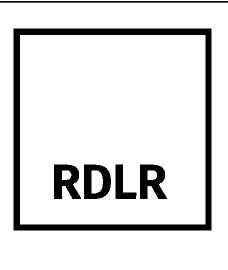
CENTER

C.I.P. No. PN793 A.I.P. No. N/A

C.O.H. No. N/A D.O.A. No. N/A

B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

IAH INTEGRATED COORDINATION





DESIGNER PROJECT No.: 2022.013 PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 **PERMIT COMMENTS 2** 11/11/2022 05/05/2023 ISSUE FOR BID & CONSTRUCTION **ISSUE FOR BID** 06/08/2023

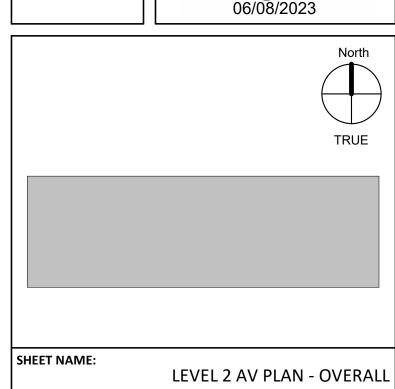
DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023
	•

DIRECTOR of HOUSTON AIRPORT SYSTEM

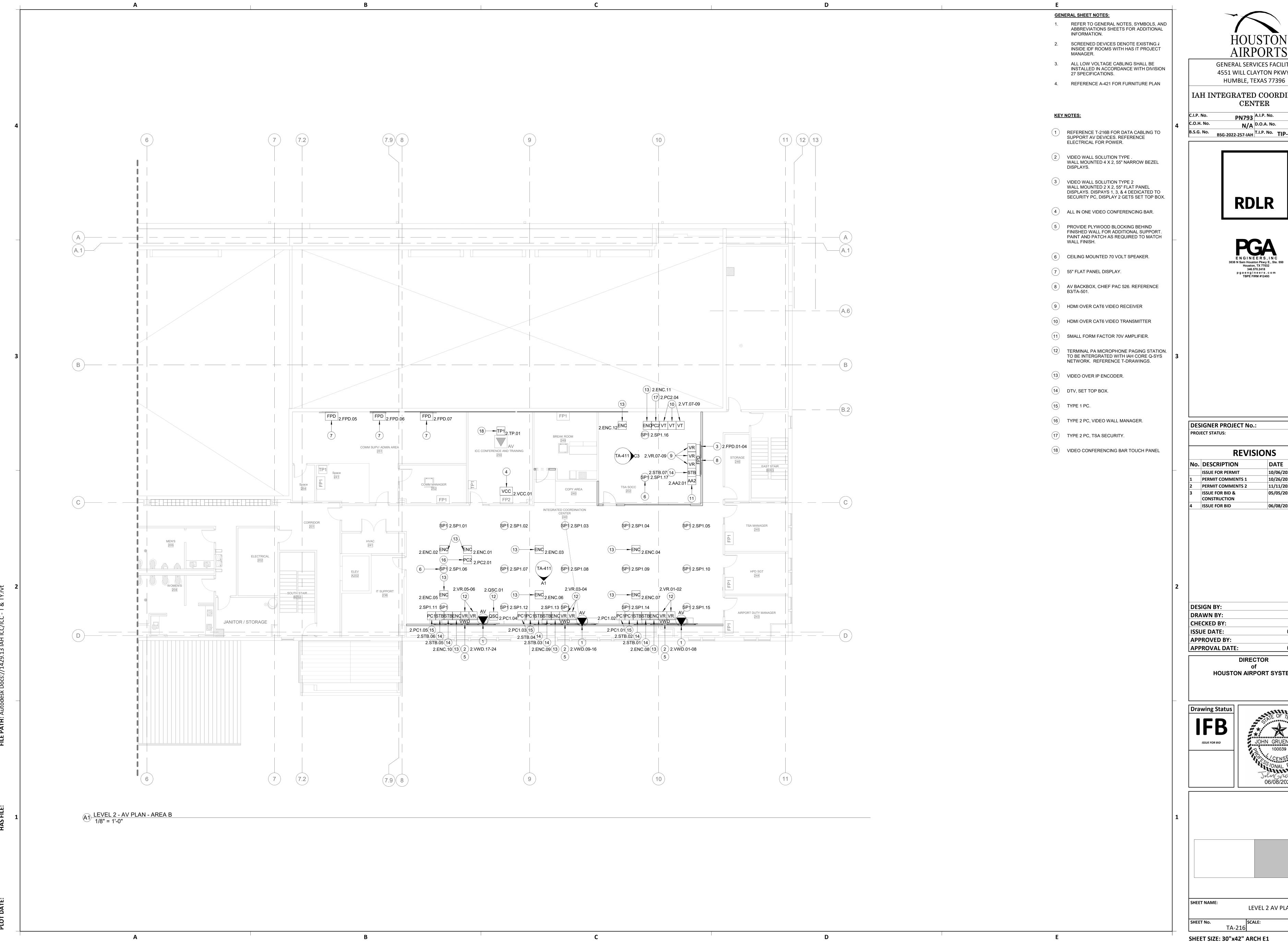
IFB

ISSUE FOR BID





TA-214 1/16" = 1'-0"



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

IAH INTEGRATED COORDINATION

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



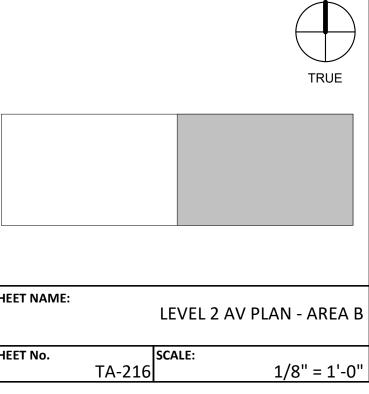


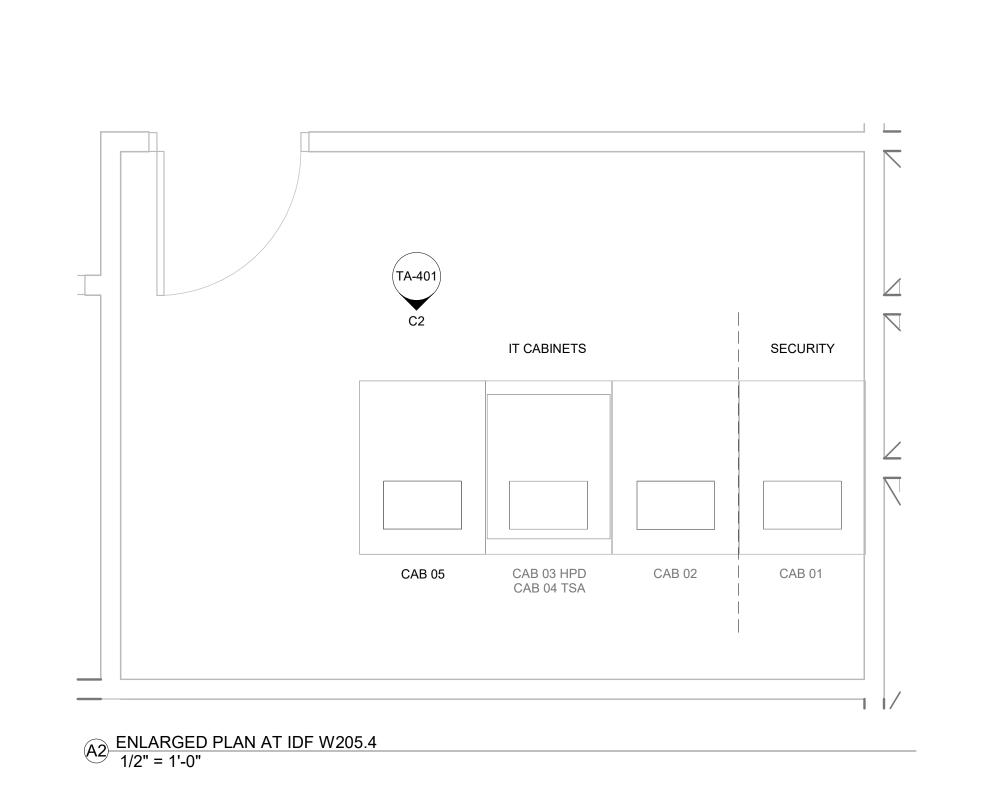
2022.013 IFB **REVISIONS** DATE BY 10/06/2022 10/26/2022 11/11/2022 05/05/2023 06/08/2023

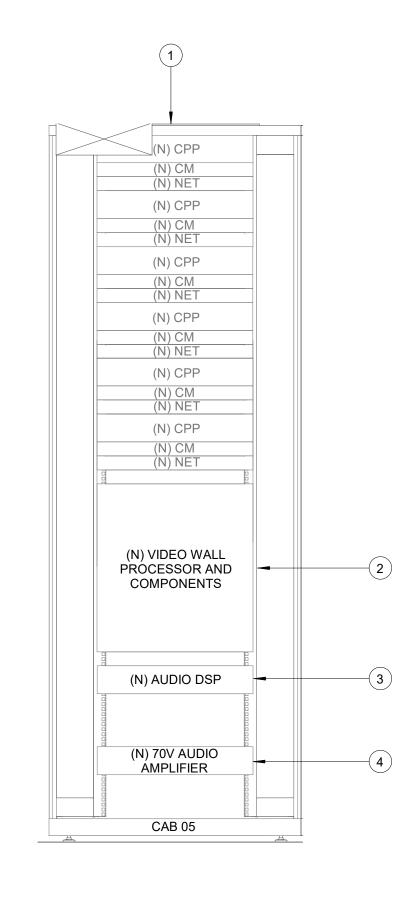
DESIGN BY:	PGA
PRAWN BY:	PGA
CHECKED BY:	PGA
SSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023
	·

DIRECTOR HOUSTON AIRPORT SYSTEM









C2 RACK ELEVATION AT IDF W205.4 1" = 1'-0"

GENERAL SHEET NOTES:

- REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.
- SCREENED DEVICES DENOTE EXISTING OR DEVICES FROM ANOTHER DISCIPLINE.
 (E) DENOTE EXISTING.
 (N) DENOTE NEW.
- (OF) DENOTE OWNER FURNISHED.
- COORDINATE EQUIPMENT INSTALLATION INSIDE IDF ROOMS WITH HAS IT PROJECT MANAGER.
- 4. ALL LOW VOLTAGE CABLING SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27 SPECIFICATIONS.

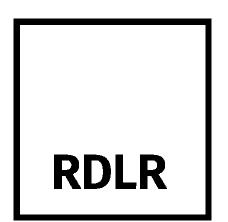
KEY NOTES:

- 1 STANDARD NETWORK CABINET.
- SPACE RESERVED FOR VIDEO WALL PROCESSOR AND COMPONENTS.
 CONTRACTOR TO SUBMIT SHOP DRAWINGS WITH BILL OF MATERIAL FOR APPROVAL PRIOR TO INSTALLATION.
- 3 AUDIO MATRIX DSP.
- 4 70V AMPLIFIER.



GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

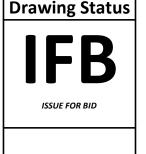
PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH



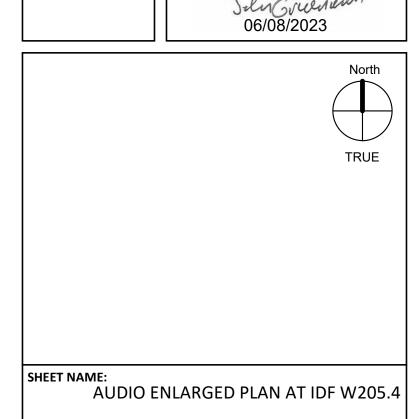
DES	IGNER PROJECT No.:		2022.013
PROJ	ECT STATUS:		
			IFB
	REVISI	ONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
1	PERMIT COMMENTS 1	10/26/2022	
2	PERMIT COMMENTS 2	11/11/2022	
3	ISSUE FOR BID & CONSTRUCTION	05/05/2023	
4	ISSUE FOR BID	06/08/2023	

DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023
· · · · · · · · · · · · · · · · · · ·	

DIRECTOR of HOUSTON AIRPORT SYSTEM

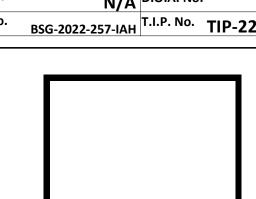






HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION CENTER





As indicated

HEET	SIZE:	30"x4	2" AR	CH E1	L

(E) RACK FAN
(N) POWER SUPPLY (N) VIDEO CONFERENCE 7 (E) 70V (N) URX (N) URX (E) RACK SHELF (E) BLANK (E) SHURE MIC UNIT (E) BLANK (E) AUDIO DSP (N) ANI (E) VIDEO MATRIX (N) SDI (N) SDI (N) VCB (N) VCB (E) POWER SUPPLY (TA-402 C3 A3 ENLARGED AUDIO PLAN AT STORAGE 144
1/2" = 1'-0" C3 RACK ELEVATION AT STORAGE 144
1" = 1'-0"

GENERAL SHEET NOTES:

REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.

 SCREENED DEVICES DENOTE EXISTING OR DEVICES FROM ANOTHER DISCIPLINE. (E) DENOTE EXISTING. (N) DENOTE NEW.

(OF) DENOTE OWNER FURNISHED. 3. COORDINATE EQUIPMENT INSTALLATION INSIDE IDF ROOMS WITH HAS IT PROJECT

MANAGER.

4. ALL LOW VOLTAGE CABLING SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 27 SPECIFICATIONS.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INTEGRATE THE EXISTING CONTROL SYSTEM AND DSP WITH THE ADDITIONS TO THE EOC FOR VIDEO CONFERENCING.

KEY NOTES:

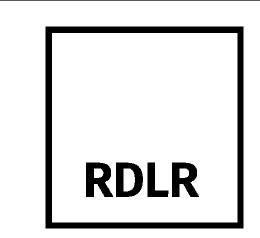
- 1 24 RU AV WALL RACK. (E)
- 2 AUDIO MATRIX DSP. (E)
- 3 70V AMPLIFIER. (E)
- 4 VIDEO MATRIX SWITCHER. (E)
- 5 SDI TO HDMI MEDIA CONVERTER.
- 6 VIDEO CONFERENCE BRIDGE.
- 7 VIDEO CONFERENCE PC'S. 8 USB EXTENDER RECEIVER.
- 9 DANTE AUDIO NETWORK INTERFACE.
- (10) HORIZONTAL POWER SUPPLY.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

IAH INTEGRATED COORDINATION CENTER

HUMBLE, TEXAS 77396

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





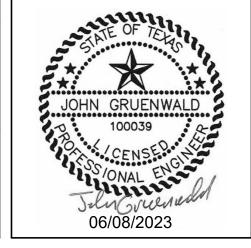
2022.013 **DESIGNER PROJECT No.:** PROJECT STATUS: **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 11/11/2022 PERMIT COMMENTS 2 05/05/2023 **ISSUE FOR BID &** CONSTRUCTION **ISSUE FOR BID** 06/08/2023

DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023
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DIRECTOR **HOUSTON AIRPORT SYSTEM**

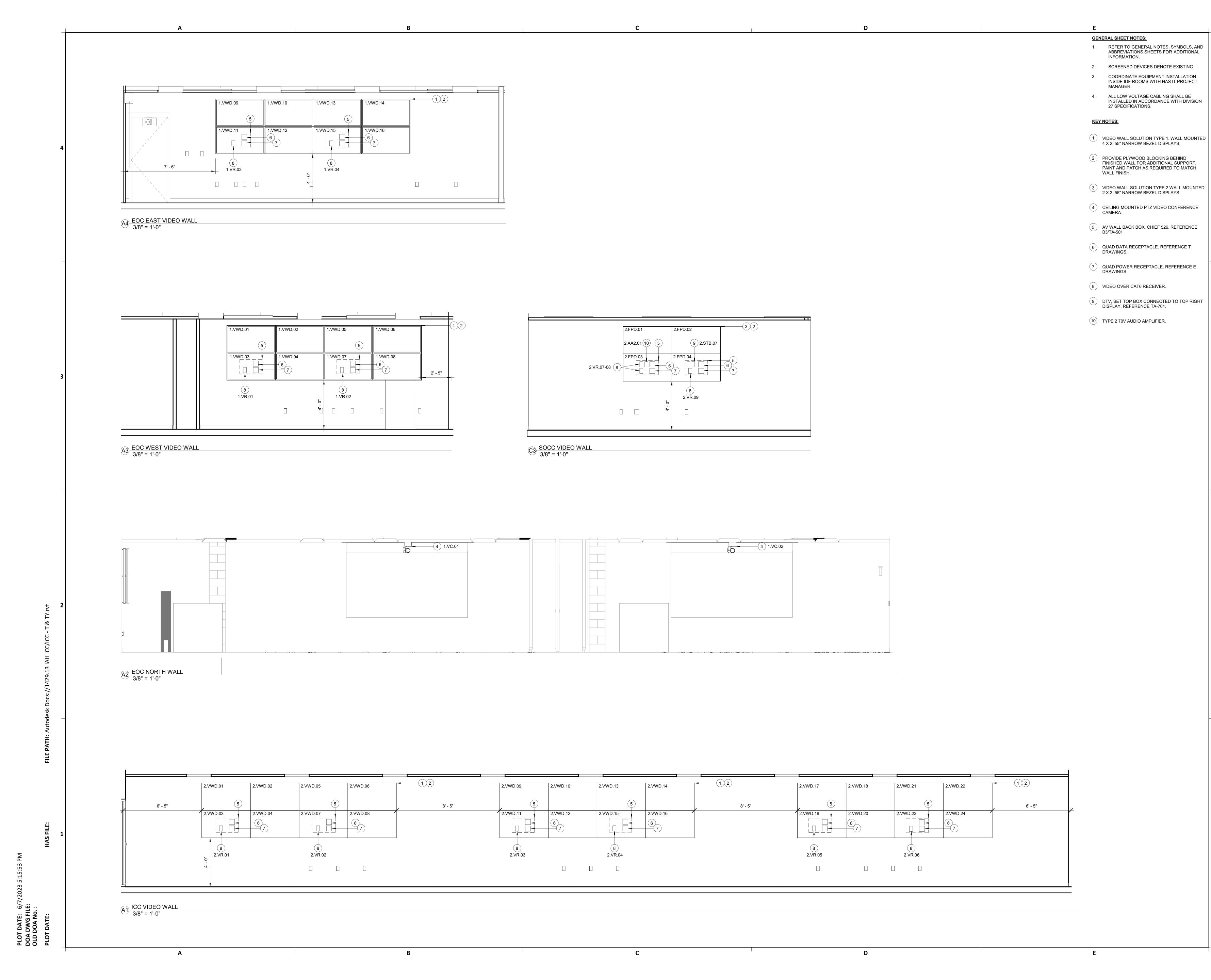
Drawing Status

ISSUE FOR BID



SHEET NAME:
AUDIO ENLARGED PLAN AT STORAGE 144

As indicated SHEET SIZE: 30"x42" ARCH E1



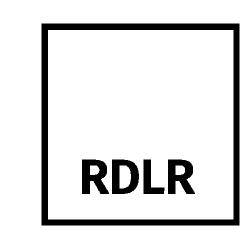
GENERAL SERVICES FACILITY

4551 WILL CLAYTON PKWY,

HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. C.O.H. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





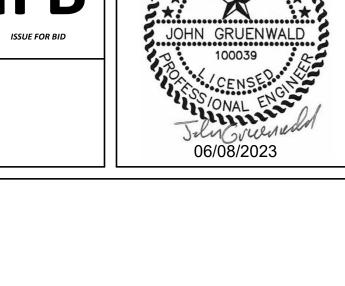
2022.013 **DESIGNER PROJECT No.:** PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 11/11/2022 PERMIT COMMENTS 2 05/05/2023 **ISSUE FOR BID &** CONSTRUCTION ISSUE FOR BID 06/08/2023

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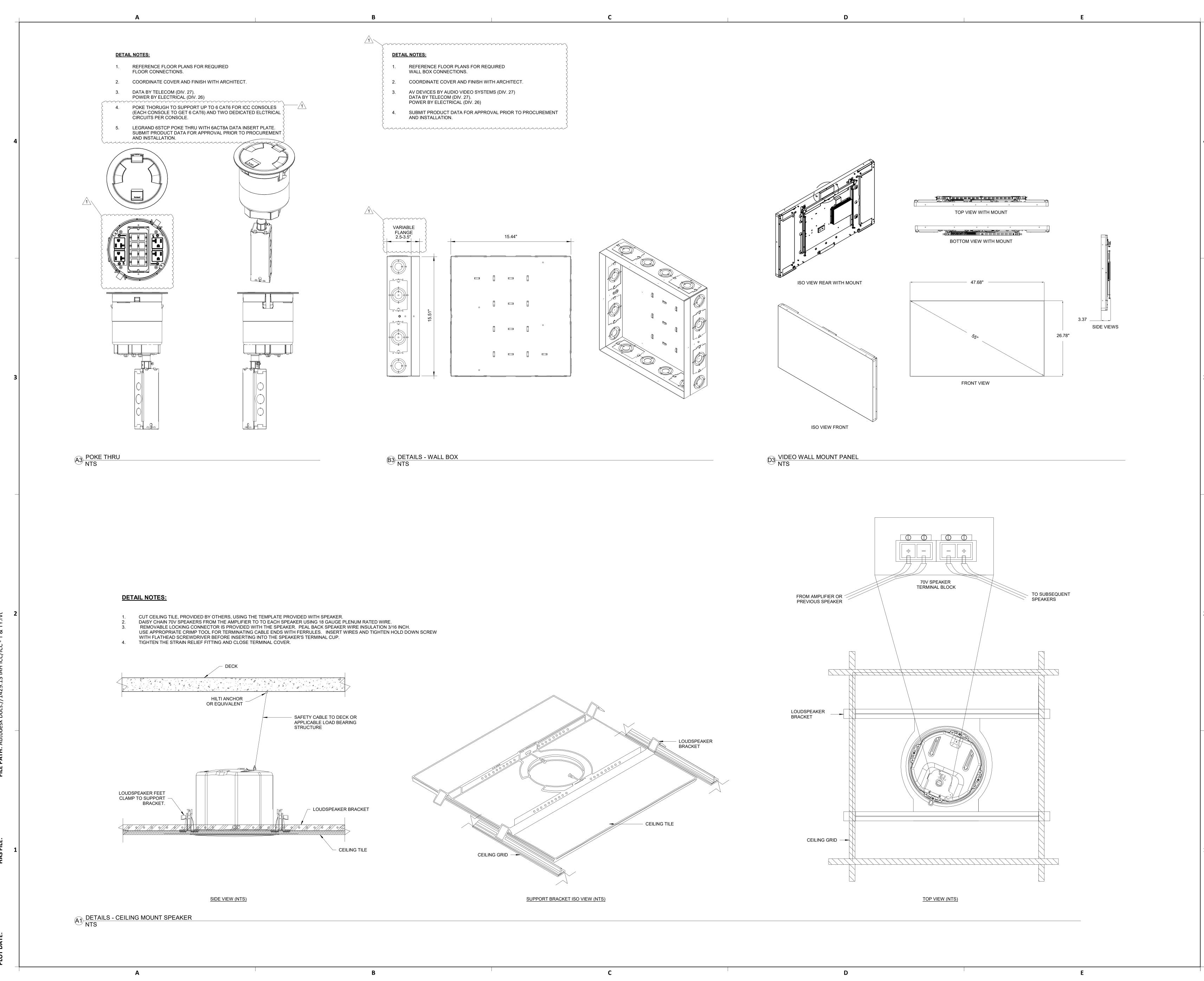
DIRECTOR **HOUSTON AIRPORT SYSTEM**

Drawing Status





AV ELEVATIONS 3/8" = 1'-0"



HOUSTON AIRPORTS

GENERAL SERVICES FACILITY
4551 WILL CLAYTON PKWY,

HUMBLE, TEXAS 77396

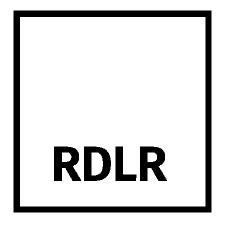
IAH INTEGRATED COORDINATION

CENTER

C.I.P. No. PN793 A.I.P. No. N/A

C.O.H. No. N/A D.O.A. No. N/A

B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





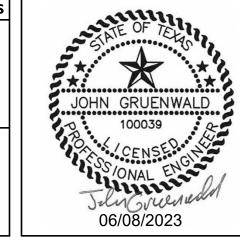
DESIGNER PROJECT No.: 2022.013 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 PERMIT COMMENTS 1 10/26/2022 PERMIT COMMENTS 2 11/11/2022 **ISSUE FOR BID &** 05/05/2023 CONSTRUCTION 06/08/2023 **ISSUE FOR BID**

DESIGN BY:	PG <i>A</i>
DRAWN BY:	PG <i>A</i>
CHECKED BY:	PG <i>A</i>
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLF
APPROVAL DATE:	06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

IFB

ISSUE FOR BID



HEET NAME:

AV DETAILS
HEET No.
TA-501
SCALE:
As indicated

RECOMMEND "DANTE" VLAN EOC 143A 1.CM.01 CEILING MICROPHONE RECOMMEND "DANTE" VLAN EOC 143A 1.CM.02 CEILING MICROPHONE RECOMMEND "DANTE" VLAN EOC 143B CEILING MICROPHONE RECOMMEND "DANTE" VLAN EOC 143B CEILING MICROPHONE RECOMMEND "IP STREAM" VLAN EOC 143A VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN EOC 143B 1.ENC.02 VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN EOC 143A 1.ENC.03 VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN EOC 143B 1.ENC.04 VIDEO OVER IP ENCODER EOC 143A 1.SDI.01 SDI TO HDMI MEDIA CONVERTER 1.SDI.02 SDI TO HDMI MEDIA CONVERTER EOC 143B EOC 143A 1.PC1.01 PC TYPE 1, VIDEO CONFERENCE PC EOC 143B 1.PC1.02 PC TYPE 1, VIDEO CONFERENCE PC EOC 143A 1.PC2.01 PC TYPE 2, MANGEMENT PC1 EOC 143B 1.PC2.02 PC TYPE 2, MANGEMENT PC2 EOC 143A 1.STB.01 SET TOP BOX EOC 143A 1.STB.02 SET TOP BOX EOC 143B 1.STB.03 SET TOP BOX EOC 143B 1.STB.04 SET TOP BOX EOC 143A 1.URX.01 USB OVER CAT6 RECEIVER EOC 143B 1.URX.02 USB OVER CAT6 RECEIVER FOR WIRELESS KEYBOARD / MOUSE EOC 143A 1.UTX.01 USB OVER CAT6 TRANSMITTER FOR WIRELESS KEYBOARD / MOUSE EOC 143B 1.UTX.02 USB OVER CAT6 TRANSMITTER 1.VC.01 PTZ VIDEO CAMERA EOC 143A EOC 143B 1.VC.02 PTZ VIDEO CAMERA EOC 143A 1.VCB.01 VIDEO CONFERECING BRIDGE EOC 143B 1.VCB.02 VIDEO CONFERECING BRIDGE EOC 143A 1.VR.01 HDMI OVER CAT6 VIDEO RECEIVER EOC 143A 1.VR.02 HDMI OVER CAT6 VIDEO RECEIVER EOC 143B 1.VR.03 HDMI OVER CAT6 VIDEO RECEIVER EOC 143B 1.VR.04 HDMI OVER CAT6 VIDEO RECEIVER EOC 143A 1.VWD.01 VIDEO WALL DISPLAY EOC 143A 1.VWD.02 VIDEO WALL DISPLAY EOC 143A 1.VWD.03 VIDEO WALL DISPLAY EOC 143A 1.VWD.04 VIDEO WALL DISPLAY EOC 143A 1.VWD.05 VIDEO WALL DISPLAY EOC 143A 1.VWD.06 VIDEO WALL DISPLAY EOC 143A 1.VWD.07 VIDEO WALL DISPLAY EOC 143A 1.VWD.08 VIDEO WALL DISPLAY EOC 143B 1.VWD.09 VIDEO WALL DISPLAY EOC 143B 1.VWD.10 VIDEO WALL DISPLAY 1.VWD.11 VIDEO WALL DISPLAY EOC 143B 1.VWD.12 VIDEO WALL DISPLAY EOC 143B EOC 143B 1.VWD.13 VIDEO WALL DISPLAY EOC 143B 1.VWD.14 VIDEO WALL DISPLAY 1.VWD.15 VIDEO WALL DISPLAY EOC 143B EOC 143B | 1.VWD.16 | VIDEO WALL DISPLAY EOC 143A 1.WKB.01 WIRELESS KEYBOARD / MOUSE COMBO EOC 143B 1.WKB.02 WIRELESS KEYBOARD / MOUSE COMBO A3 LEVEL 1 AV EQUIPMENT SCHEDULE.
NTS

DESCRIPTION

ROOM NO.

DEVICE NO.

DEVICE NO. **NOTES** DESCRIPTION VIDEO CONFERECING BAR TOUCH PANEL 2.TP1.01 VIDEO CONFERECING CODEC / BAR FLAT PANEL DISPLAY, 55" FLAT PANEL DISPLAY, 55" FLAT PANEL DISPLAY, 55" ICC VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN ICC 2.ENC.02 VIDEO OVER IP ENCODER ICC 2.ENC.03 RECOMMEND "IP STREAM" VLAN VIDEO OVER IP ENCODER ICC 2.ENC.04 RECOMMEND "IP STREAM" VLAN ICC 2.ENC.05 VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN VIDEO OVER IP ENCODER ICC 2.ENC.06 RECOMMEND "IP STREAM" VLAN VIDEO OVER IP ENCODER ICC 2.ENC.07 RECOMMEND "IP STREAM" VLAN VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN ICC 2.ENC.08 VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN ICC 2.ENC.09 VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN ICC 2.ENC.10 2.PC1.01 PC TYPE 1, HAS Metrics Dashboard (1) ICC 2.PC1.02 PC TYPE 1, HAS Metrics Dashboard (2) ICC 2.PC1.03 PC TYPE 1, HAS SECURITY ICC 2.PC1.04 PC TYPE 1, HAS CLOCK PC TYPE 1, WEATHER PC TYPE 2, MANGEMENT PC3 70V CEILING SPEAKER RECOMMEND 15W TAP RECOMMEND 15W TAP 70V CEILING SPEAKER 70V CEILING SPEAKER RECOMMEND 15W TAP ICC 70V CEILING SPEAKER RECOMMEND 15W TAP 2.SP1.04 ICC 70V CEILING SPEAKER RECOMMEND 15W TAP 70V CEILING SPEAKER RECOMMEND 15W TAP ICC 2.SP1.06 ICC 70V CEILING SPEAKER RECOMMEND 15W TAP ICC 2.SP1.08 70V CEILING SPEAKER RECOMMEND 15W TAP ICC 2.SP1.09 70V CEILING SPEAKER RECOMMEND 15W TAP ICC 2.SP1.10 70V CEILING SPEAKER RECOMMEND 15W TAP ICC 70V CEILING SPEAKER RECOMMEND 15W TAP RECOMMEND 15W TAP ICC 2.SP1.12 70V CEILING SPEAKER 2.SP1.13 70V CEILING SPEAKER RECOMMEND 15W TAP ICC 2.SP1.14 70V CEILING SPEAKER RECOMMEND 15W TAP ICC 70V CEILING SPEAKER RECOMMEND 15W TAP ICC SET TOP BOX ICC 2.STB.01 SET TOP BOX ICC 2.STB.02 SET TOP BOX ICC 2.STB.03 SET TOP BOX 2.STB.04 SET TOP BOX 2.STB.05 SET TOP BOX 2.STB.06 VIDEO WALL DISPLAY VIDEO WALL DISPLAY 2.VWD.02 VIDEO WALL DISPLAY 2.VWD.03 2.VWD.04 VIDEO WALL DISPLAY ICC 2.VWD.05 VIDEO WALL DISPLAY 2.VWD.06 VIDEO WALL DISPLAY ICC ICC 2.VWD.07 VIDEO WALL DISPLAY 2.VWD.08 VIDEO WALL DISPLAY ICC 2.VWD.09 VIDEO WALL DISPLAY ICC 2.VWD.10 VIDEO WALL DISPLAY ICC VIDEO WALL DISPLAY ICC 2.VWD.11 2.VWD.12 VIDEO WALL DISPLAY ICC 2.VWD.13 VIDEO WALL DISPLAY ICC 2.VWD.14 VIDEO WALL DISPLAY 2.VWD.15 VIDEO WALL DISPLAY 2.VWD.16 VIDEO WALL DISPLAY VIDEO WALL DISPLAY 2.VWD.18 VIDEO WALL DISPLAY VIDEO WALL DISPLAY VIDEO WALL DISPLAY 2.VWD.20 VIDEO WALL DISPLAY VIDEO WALL DISPLAY 2.VWD.23 VIDEO WALL DISPLAY 2.VWD.24 VIDEO WALL DISPLAY 70V AUDIO AMPLIFIER TYPE 2 MAINTAIN 20% HEADROOM SOCC 2.ENC.011 VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN SOCC 2.ENC.012 VIDEO OVER IP ENCODER RECOMMEND "IP STREAM" VLAN SOCC 2.FPD.01 FLAT PANEL DISPLAY, 55" 2.FPD.02 FLAT PANEL DISPLAY, 55" SOCC 2.FPD.03 FLAT PANEL DISPLAY, 55" SOCC SOCC 2.FPD.04 FLAT PANEL DISPLAY, 55" SOCC 2.PC2.04 PC, TSA SECURITY RECOMMEND 15W TAP 2.SP1.16 70V CEILING SPEAKER SOCC RECOMMEND 15W TAP SOCC 2.SP1.17 70V CEILING SPEAKER SOCC 2.STB.07 SET TOP BOX SOCC HDMI OVER CAT6 VIDEO TRANSMITTER HDMI OVER CAT6 VIDEO TRANSMITTER SOCC SOCC HDMI OVER CAT6 VIDEO TRANSMITTER FIBER CIRCUIT FROM TER D TO ICC BY HAS FIBER MEDIA CONVERTER TRANSMITTER TERMINAL D 70V AUDIO AMPLIFIER TYPE 1 MAINTAIN 20% HEADROOM W205.4 W205.4 AUDIO OVER IP DECODER RECOMMEND "IP STREAM" VLAN RECOMMEND "IP STREAM" VLAN W205.4 AUDIO OVER IP DECODER W205.4 AUDIO OVER IP DECODER RECOMMEND "IP STREAM" VLAN W205.4 VIDEO OVER IP DECODER CARD RECOMMEND "IP STREAM" VLAN VIDEO OVER IP DECODER CARD RECOMMEND "IP STREAM" VLAN W205.4 VIDEO OVER IP DECODER CARD RECOMMEND "IP STREAM" VLAN W205.4 VIDEO OVER IP DECODER CARD RECOMMEND "IP STREAM" VLAN W205.4 2.DEC.05 VIDEO OVER IP DECODER CARD RECOMMEND "IP STREAM" VLAN W205.4 DIGITAL SIGNAL PROCESSOR W205.4 FIBER CIRCUIT FROM TER D TO ICC BY HAS FIBER MEDIA CONVERTER RECEIVER W205.4 VIDEO OUTPUT CARD. W205.4 2.OUT.01 2.OUT.02 VIDEO OUTPUT CARD. W205.4 VOIP GATEWAY FOR CRASH PHONE W205.4 HDMI OVER CAT6 VIDEO RECEIVER VIDEO WALL MATRIX SWITCHER W205.4 HDMI OVER CAT6 VIDEO TRANSMITTER HDMI OVER CAT6 VIDEO TRANSMITTER W205.4 2.VT.02 2.VT.03 HDMI OVER CAT6 VIDEO TRANSMITTER 2.VT.04 HDMI OVER CAT6 VIDEO TRANSMITTER W205.4 HDMI OVER CAT6 VIDEO TRANSMITTER HDMI OVER CAT6 VIDEO TRANSMITTER 2.VT.07 HDMI OVER CAT6 VIDEO TRANSMITTER W205.4 HDMI OVER CAT6 VIDEO TRANSMITTER W205.4 2.VT.09 HDMI OVER CAT6 VIDEO TRANSMITTER W205.4 2.VT.10 HDMI OVER CAT6 VIDEO TRANSMITTER W205.4

©1 LEVEL 2 AV EQUIPMENT SCHEDULE.
NTS

AIRPORTS

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION CENTER PN793 A.I.P. No. N/A D.O.A. No.

BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH **RDLR**

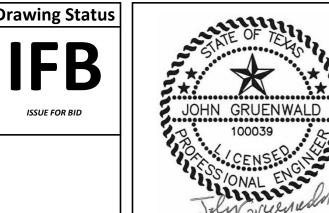


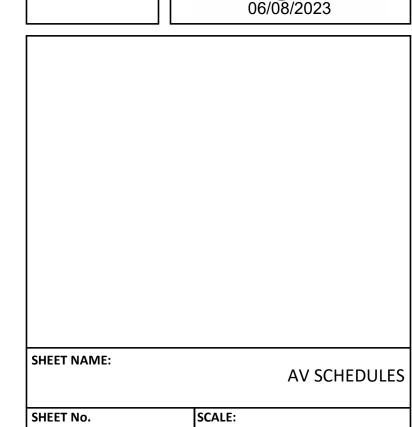
DESIGNER PROJECT No.: 2022.013 PROJECT STATUS: **REVISIONS** DATE BY No. DESCRIPTION **ISSUE FOR PERMIT** 10/06/2022 PERMIT COMMENTS : 10/26/2022 PERMIT COMMENTS 2 11/11/2022 **ISSUE FOR BID &** 05/05/2023 CONSTRUCTION 06/08/2023 **ISSUE FOR BID**

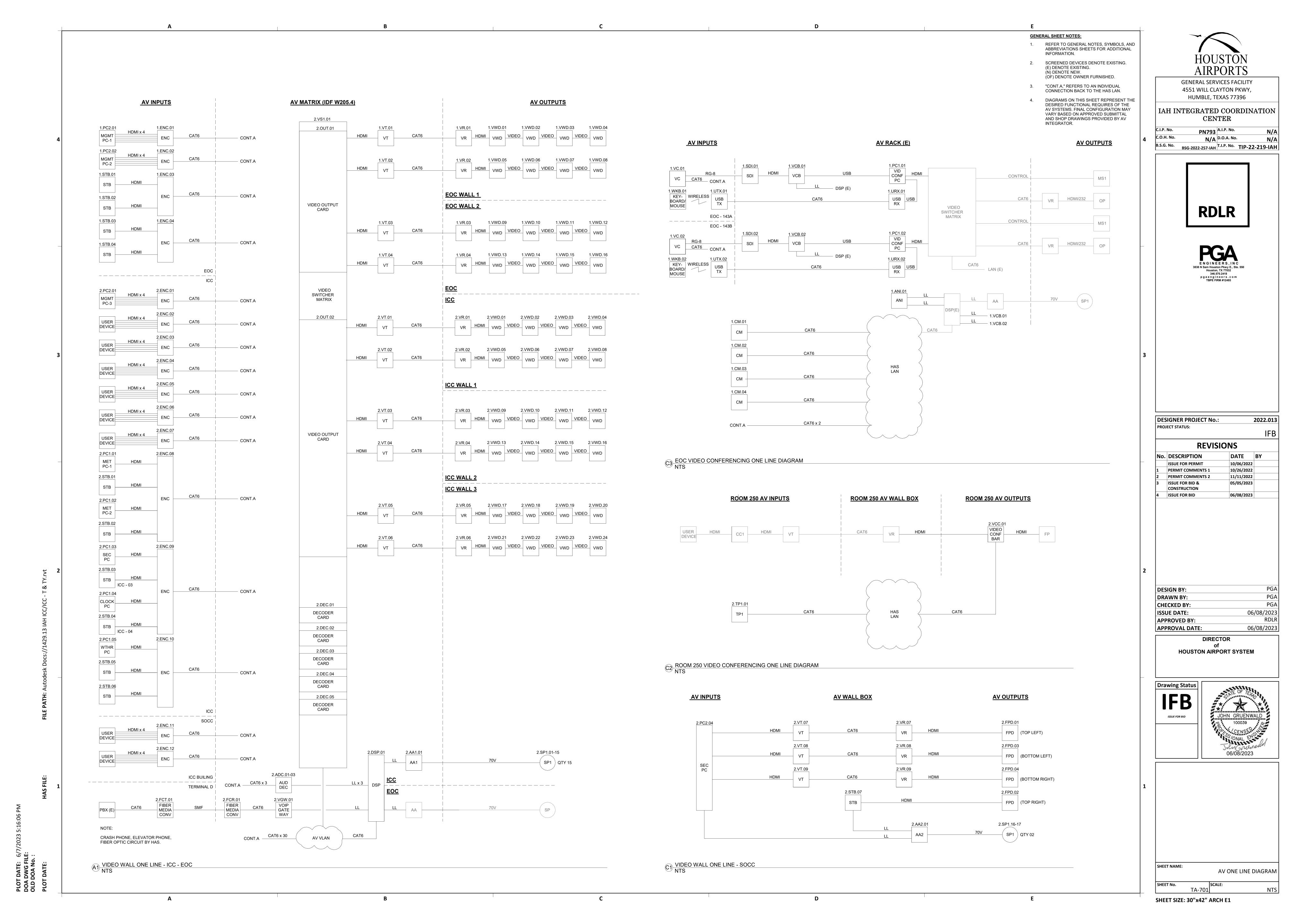
DESIGN BY:	PG/
DRAWN BY:	PG
CHECKED BY:	PG
ISSUE DATE:	06/08/202
APPROVED BY:	RDL
APPROVAL DATE:	06/08/202

DIRECTOR HOUSTON AIRPORT SYSTEM

| Drawing Status |







SYMBOL CR CARD READER IC INTERCOM SUBSTATION (VOIP) W/ CAMERA IC M INTERCOM MASTER STATION (VOIP) 360 IP CAMERA FIXED IP CAMERA PTZ HD IP CAMERA T TAMPER SWITCH DR DOOR MOMENTARY RELEASE BUTTON (UNDER DESK/TABLE/COUNTER) EL M EL PC1 PC TYPE 1 PC2 PC TYPE 2		
IC INTERCOM SUBSTATION (VOIP) W/ CAMERA IC M INTERCOM MASTER STATION (VOIP) 360 IP CAMERA FIXED IP CAMERA PTZ HD IP CAMERA T TAMPER SWITCH DR DOOR MOMENTARY RELEASE BUTTON (UNDER DESK/TABLE/COUNTER) EL M ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE) PC1 PC TYPE 1	SYMBOL	DESCRIPTION
IC M INTERCOM MASTER STATION (VOIP) 360 IP CAMERA FIXED IP CAMERA PTZ HD IP CAMERA T TAMPER SWITCH DR DOOR MOMENTARY RELEASE BUTTON (UNDER DESK/TABLE/COUNTER) EL M ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE) PC1 PC TYPE 1	CR	CARD READER
360 IP CAMERA FIXED IP CAMERA PTZ HD IP CAMERA T TAMPER SWITCH DR DOOR MOMENTARY RELEASE BUTTON (UNDER DESK/TABLE/COUNTER) EL M ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE PC1 PC TYPE 1	IC	INTERCOM SUBSTATION (VOIP) W/ CAMERA
FIXED IP CAMERA PTZ HD IP CAMERA T TAMPER SWITCH DOOR MOMENTARY RELEASE BUTTON (UNDER DESK/TABLE/COUNTER) EL M ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE PC1 PC TYPE 1	IC M	INTERCOM MASTER STATION (VOIP)
PTZ HD IP CAMERA T TAMPER SWITCH DR DOOR MOMENTARY RELEASE BUTTON (UNDER DESK/TABLE/COUNTER) EL M ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE PC1 PC TYPE 1	(360)	360 IP CAMERA
T TAMPER SWITCH DOOR MOMENTARY RELEASE BUTTON (UNDER DESK/TABLE/COUNTER) EL M ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE PC1 PC TYPE 1	(FIX.)	FIXED IP CAMERA
DOOR MOMENTARY RELEASE BUTTON (UNDER DESK/TABLE/COUNTER) EL	PTZI	PTZ HD IP CAMERA
(UNDER DESK/TABLE/COUNTER) EL M ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE PC1 PC TYPE 1	Т	TAMPER SWITCH
PC1 PC TYPE 1	DR	
		ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE
PC2 PC TYPE 2	PC1	PC TYPE 1
	PC2	PC TYPE 2

CCVS SYSTEM NOTES

- 1. ALL OUTDOOR CAMERAS, TERMINATION BOXES, AND PULLBOXES SHALL BE INSTALLED WITH WEATHER RESISTANT HARDWARE.
- 2. PROVIDE ALL INTEGRATION WITH ALARM ACCESS CONTROL SYSTEM COMPONENTS.
- 3. PROVIDE ALL COORDINATION WITH OTHER DISCIPLINES FOR INSTALLATION OF EQUIPMENT.
- 4. COORDINATE ALL SITE WORK WITH OWNER'S REP.
- 5. DRAWINGS INDICATE CAMERA 'HOME POSITIONS'. VERIFY FIELD OF VIEW WITH HOUSTON AIRPORT SYSTEM (HAS) REPRESENTATIVE AND DESIGN CONSULTANT DURING HAS SECURITY COMMISSIONING. SUBSTITUTION OF LENS TYPE & SIZE TO ACCOMPLISH INTENDED FIELD OF VIEW SHALL BE AT NO ADDITIONAL COST.
- 6. CAMERAS MAY INCLUDE MULTIPLE TRANSMISSION METHODS. VERIFY EACH CAMERA PRIOR TO INSTALLATION.
- 7. FIELD VERIFY ALL CAMERA LOCATIONS PRIOR TO INSTALLATION. CAMERA MAY BE RELOCATED WITHIN 25' OF LOCATION SHOWN ON FLOOR PLANS WITHOUT ADDITIONAL COST.

CAMERA SERVER AND DIGITAL STORAGE NOTES

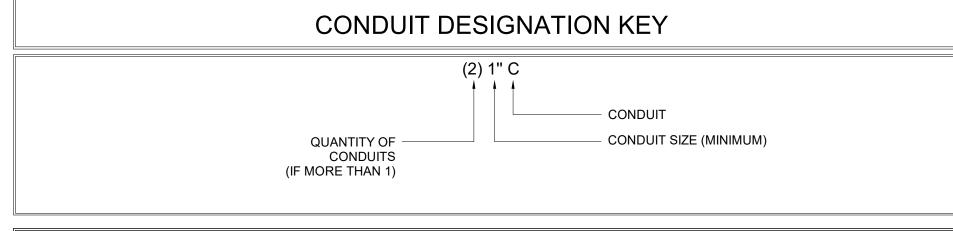
- 1. PROVIDE DIGITAL STORAGE FOR THIS PROJECT IN THE HAS ADMIN BUILDING AS REQUIRED.
- 2. THE EXISTING CAMERA SERVERS AND DIGITAL STORAGE ARE LOCATED AT THE HAS ADMINISTRATION BUILDING AND TERMINAL C. THEY ARE REDUNDANT.
- 3. PROVIDE HONEYWELL MAXPRO CAMERA LICENSING AS REQUIRED AT THE HAS ADMINISTRATION BUILDING AND TERMINAL C TO SUPPORT ALL HAS CAMERAS INSTALLED AS PART OF THIS PROJECT.

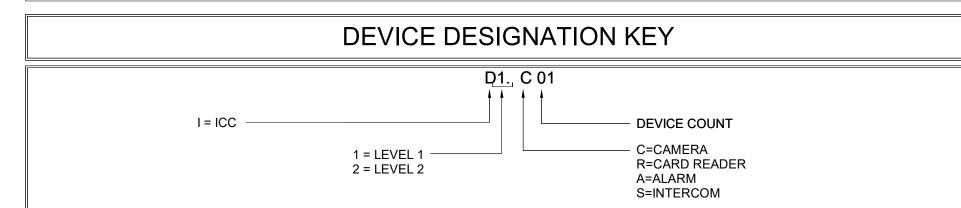
ACS SYSTEM NOTES

- 1. ALL OUTDOOR MOUNTED CARD READERS SHALL BE INSTALLED WITH WEATHER RESISTANT AND TAMPER PROOF HARDWARE.
- 2. CARD READER PEDESTALS SHALL BE SIZED FOR VOICE COMMUNICATIONS.
- 3. PROVIDE ALL INTEGRATION WITH CLOSED CIRCUIT VIDEO SURVEILLANCE COMPONENTS.
- 4. PROVIDE ALL COORDINATION WITH OTHER DISCIPLINES FOR INSTALLATION OF EQUIPMENT
- 5. COORDINATE ALL SITE WORK WITH OWNERS REP.
- 6. PROVIDE ACCESS CONTROL LICENSES AS REQUIRED PART OF THIS PROJECT.

	SECURITY CABLE D	DESIGNATION/TYPE *	
DESIGNATION	DESCRIPTION	USAGE	PART #
А	1 PAIR 22AWG SHIELDED	ALARM MONITORING	BELDEN 5500FE
В	2 PAIR 20AWG SHIELDED	MOTION DETECTOR, BEAM DETECTORS	BELDEN 5441FE
С	3 PAIR 22AWG SHIELDED	CARD READER	BELDEN 5542FE
D	2/C 18AWG	CAMERA PWR, PUSH BUTTON, LOCK PWR	BELDEN 5300UE
Е	2 PAIR 22AWG SHIELDED	DATA, CCVS PTZ CONTROL	BELDEN 5541FE
F	2/C 18AWG SHIELDED	HORN	BELDEN 5300FE
G	COAXIAL W/2C POWER	VIDEO	
Н	1 PAIR 20AWG TWISTED	INTERCOM	BELDEN 5400FE
J	1 PAIR TWISTED SH 18AWG PLUS 2/C 18AWG	EMERGENCY PHONE	BELDEN 5302GI
K	CAT6 UTP (PLENUM)	NETWORK AND CAMERA	SYSTIMAX 2071
L	ACCESS CONTROL COMPOSITE CABLE, 4C 18AWG, 3PR 22 AWG, 4C 22 AWG	LOCK PWR, CR, DOOR CONTACT, REX, 1 SPARE YELLOW JACKET	WSECOMP-2835
М	CCTV COMPOSITE CABLE 2C 18AWG, UNSHIELDED, CABLE ETHERNET (PLENUM), R659 (PLENUM)	CAM PWR, UTP/IP VIDEO ANALOG VIDEO CONNECT K112	WSECOMP-281
N	4 CONDUCTOR, 22 AWG, (7X30) STRANDED	DURESS BUTTON	WEST PENN 25241B

DESIGNATION TABLE FOR SHOP DRAWING AND RECORD DRAWING SUBMITTALS.





GENERAL NOTES

- THE FOLLOWING GENERAL NOTES ARE APPLICABLE AS STATED BELOW, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, ON THE DRAWINGS OR IN THE BID SPECIFICATION.
- 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.
- DEVICE LOCATIONS ON PLANS ARE CONCEPTUAL. LOCATE AS SITE CONDITIONS REQUIRE AND AS APPROVED BY THE OWNER.
- REFER TO THE BID SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK. INSTALL WALL MOUNTED CARD READERS, PUSH BUTTON SWITCHES, KEYPADS, KEY SWITCHES AND OTHER WALL MOUNTED

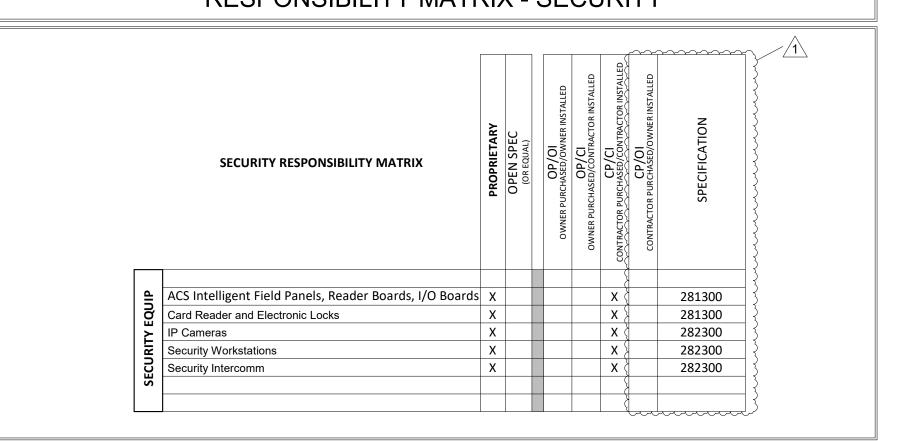
FIELD DEVICES, AT 48 INCHES MAXIMUM ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. MOUNTING HEIGHT SHALL

- COMPLY WITH TEXAS ACCESSIBILITY STANDARD (TAS). PROVIDE PAINTING, PATCHING AND FINISHES, OF MATERIALS AND DEVICES, AS APPROVED BY THE OWNER.
- DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS. ACTUAL ARCHITECTURAL CONDITIONS (SUCH AS DIRECTION OF SWING AND HAND OF DOOR) MAY VARY.
- WORK AND MATERIALS TO CONFORM TO THE MOST CURRENT UNIFORM STANDARD SPECIFICATIONS, ASSOCCIATED CODES REFERENCED BY THE (AHJ) AUTHORITY HAVING JURISDICTION, AND DETAILS FOR CONSTRUCTION, AS FURNISHED BY THE OWNER. WORK AND MATERIALS, NOT IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND DETAILS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT CMAR'S EXPENSE.
- FOR INFORMATION REGARDING FIRE RATINGS AND OCCUPANCY SEPARATIONS, REFER TO ARCHITECTURAL PLANS AND
- 10. NEW CONDUIT CONNECTIONS TO INCLUDE INTEGRAL PROTECTIVE BUSHINGS OR CHASE NIPPLES.
- I. NEW CONDUIT FOR FUTURE USE TO BE FILLED WITH 200 POUND STRENGTH PULL LINE. PROVIDE LABELING ON EACH END OF THE PULL LINE TO INDICATE LOCATION OF OTHER END.
- . NEW CONDUITS SHALL BE CONCEALED WHENEVER POSSIBLE. SURFACE MOUNTED CONDUITS ARE PERMISSIBLE ONLY WHERE APPROVED. USE ONLY CONCEALED CONDUITS WITHIN FINISHED SPACES. THE ABOVE STANDARDS ALSO APPLY TO EXTERIOR SPACES. SEEK APPROVAL FROM THE OWNER FOR EACH AREA WHERE SURFACE CONDUIT IS NECESSARY.
- 13. JUNCTION BOXES SHALL BE MINIMUM 4 INCH SQUARE DEEP STYLE, SIZED AS REQUIRED TO ACCOMMODATE CONDUITS UNLESS OTHERWISE NOTED. PROVIDE MOUNTING RING AS REQUIRED. PROVIDE A BLANK COVER PLATE FOR JUNCTION BOXES AND
- PULL BOXES WITH NO DEVICE. 14. EXPOSED BOXES AND PANELS, MOUNTED IN OR ON EXTERIOR WALLS, TO BE NEMA 4.
- 15. NEW CONDUIT TO BE 1 INCH EMT MINIMUM, UNLESS OTHERWISE NOTED. EXTERIOR CONDUIT TO BE RIGID.
- 16. USE 120VAC CIRCUITS UNLESS OTHERWISE NOTED. VERIFY CURRENT LOAD ON EXISTING CIRCUITS BEFORE CONNECTING NEW LOADS. COORDINATE WITH OWNER IF ADDITIONAL CIRCUITS ARE REQUIRED.
- 17. VERIFY CONDUIT AND PLENUM CABLE PATHS INDICATED ON THE DRAWINGS. MAY PROPOSE ALTERNATE ROUTING WHERE
- CONFLICTS ARE FOUND.
- 18. BE RESPONSIBLE FOR CEILING INTEGRITY, THIS INCLUDES ROUTING ABOVE CONCEALED SPLINE INTERLOCKING TILES.
- 19. OBTAIN RECERTIFICATION FOR FIRE RATED DOOR FRAME AND DOOR MODIFIED BY THIS PROJECT.
- 20. ACCESS CONTROL LOW VOLTAGE WIRING TO BE PLENUM RATED.
- 21. DO NOT EXCEED 180° IN AGGREGATE CONDUIT BENDS AND/OR 100' CONDUIT WITHOUT PULLBOX.
- 22. PROVIDE GROUND BUSHING ON ALL CONDUIT END IN EQUIPMENT ROOM. BOND TO APPROVED BUILDING GROUND.
- 23. LABEL CONDUIT EVERY 50' WITH DEVICE ID & EQUIPMENT ROOM ID WITH PERMANENT INK CABLE MADE WITH LASER CABLE MAKER. SECURE TO CONDUIT WITH CLEAR TAPE.
- 24. ALL WALL AND FLOOR PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE STOP.
- 25. LOCATE DEVICES AS SITE CONDITIONS REQUIRE.
- 26. FIELD VERIFY ALL DIMENSIONS.
- 27. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK. CMAR TO PREPARE PROPOSAL FOR EACH DISCIPLINE. PROVIDE COORDINATION BETWEEN DISCIPLINES FOR CONSTRUCTION.
- 28. NOTIFY DESIGN CONSULTANT AND OWNER WHERE EXISTING CONDITIONS REQUIRE REPAIR PRIOR TO INSTALLATION.
- 29. COORDINATE ALL WORK WITH CMAR.
- 30. ALL CABLE PULLS WITHIN EXISTING AND NEW CONDUITS TO BE MADE AT SAME TIME.
- 31. COORDINATE WITH FIRE ALARM CONTRACTOR TO MAKE CONNECTION TO ACCESS CONTROL SYSTEM FOR CARD READER CONTROLLER AND ELECTRONICALLY LOCK DOOR RELEASE. FIRE ALARM RELAY SHALL BE BY FIRE ALARM CONTRACTOR, CONNECTIVITY TO ACCESS CONTROL PANEL SHALL BE BY SECURITY CONTRACTOR
- 32. DEFINITION: BY DIVISION 8 EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 8 CONTRACTOR.
- 33. DEFINITION: BY DIVISION 26 EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 26 CONTRACTOR.
- 34. DEFINITION: BY DIVISION 27 EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 27 CONTRACTOR.

SHEET INDEX

SHEET NO.	DESCRIPTION	
TY-001	SECURITY LEGEND AND NOTES	
TY-211	LEVEL 1 SECURITY PLAN - OVERALL	
TY-213	LEVEL 1 SECURITY PLAN - AREA B	
TY-214	LEVEL 2 SECURITY PLAN - OVERALL	
TY-216	LEVEL 2 SECURITY PLAN - AREA B	
TY-401	SECURITY ENLARGED PLAN AT MDF	
TY-402	SECURITY ENLARGED PLAN AT IDF W205.4	
TY-501	SECURITY EQUIPMENT SCHEDULES	
TY-601	SECURITY DETAILS	

RESPONSIBILITY MATRIX - SECURITY



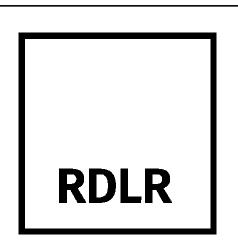
WARNING: THIS DOCUMENT CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PART 1520. NO PART OF THIS DOCUMENT MAY BE RELEASED TO PERSONS WITHOUT A NEED TO KNOW, AS DEFINED IN 49 CFR 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION, ARLINGTON, VA 22202. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC AVAILABILITY IS GOVERNED BY 5 U.S.C. 552.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION

CENTER

N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





DESIGNER PROJECT No.: 2022.013 PROJECT STATUS: **REVISIONS** No. DESCRIPTION DATE BY **ISSUE FOR PERMIT** 10/06/2022 PERMIT COMMENTS 1 10/26/2022 **PERMIT COMMENTS 2** 11/11/2022 **ISSUE FOR BID &** 05/05/2023 CONSTRUCTION **ISSUE FOR BID** 06/08/2023

DESIGN BY: PGA DRAWN BY: CHECKED BY: 06/08/2023 ISSUE DATE: RDLR APPROVED BY: 06/08/2023 APPROVAL DATE:

> DIRECTOR **HOUSTON AIRPORT SYSTEM**

| Drawing Status |

ISSUE FOR BID



12" = 1'-0"

SECURITY LEGEND AND NOTES

GENERAL SHEET NOTES: REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION. 2. SCREENED DEVICES DENOTE EXISTING. C1 AREA A AREA B (C2) (C3) (C5) (C4) 0 (0.9) 1 (11)(12)(13)5.8 6 7.9 8 0 0.9 1 A1 LEVEL 1 SECURITY PLAN - OVERALL 1/16" = 1'-0" WARNING: THIS DOCUMENT CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PART 1520. NO PART OF THIS DOCUMENT MAY BE RELEASED TO PERSONS WITHOUT A NEED TO KNOW, AS DEFINED IN 49 CFR 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION, ARLINGTON, VA 22202. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC AVAILABILITY IS GOVERNED BY 5 U.S.C. 552.

HOUSTON AIRPORTS

AIRPORTS

GENERAL SERVICES FACILITY
4551 WILL CLAYTON PKWY,

HUMBLE, TEXAS 77396

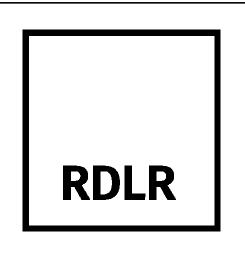
IAH INTEGRATED COORDINATION

CENTER

I.P. No. PN793 A.I.P. No. N/A

O.H. No. N/A D.O.A. No. N/A

BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





DESIGNER PROJECT No.: 2022.013 PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 11/11/2022 PERMIT COMMENTS 2 05/05/2023 ISSUE FOR BID & CONSTRUCTION ISSUE FOR BID 06/08/2023

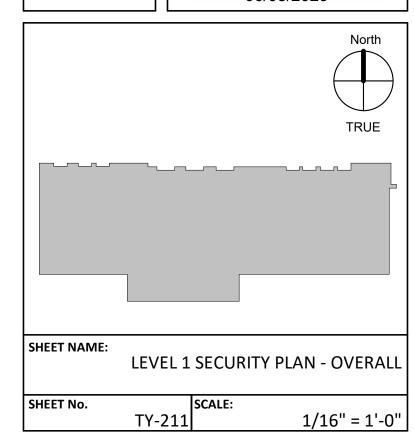
DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

Drawing Status

ISSUE FOR BID





GENERAL SHEET NOTES: REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION. HOUSTON AIRPORTS 2. SCREENED DEVICES DENOTE EXISTING. DEVICES ON THIS SHEET SHALL TERMINATE IN THE MDF. **GENERAL SERVICES FACILITY** 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396 IAH INTEGRATED COORDINATION CENTER PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH 7.9 8 **RDLR** ENGINEERS, INC
3838 N Sam Houston Pkwy E., Ste. 550
Houston, TX 77032
346.570.2418
pgaengineers.com
TBPE FIRM #12493 **DESIGNER PROJECT No.:** 2022.013 PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 2 11/11/2022 PERMIT COMMENTS 2 05/05/2023 **ISSUE FOR BID &** CONSTRUCTION ISSUE FOR BID 06/08/2023 OFFICE 152 **DESIGN BY:** DRAWN BY: CHECKED BY: 06/08/2023 ISSUE DATE: APPROVED BY: **APPROVAL DATE:** 06/08/2023 DIRECTOR HOUSTON AIRPORT SYSTEM **Drawing Status** ISSUE FOR BID A1 LEVEL 1 SECURITY PLAN - AREA B 1/8" = 1'-0" WARNING: THIS DOCUMENT CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PART 1520. NO PART OF THIS DOCUMENT MAY BE RELEASED TO PERSONS WITHOUT A NEED TO KNOW, AS DEFINED IN 49 CFR 1520, LEVEL 1 SECURITY PLAN - AREA B EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION, ARLINGTON, VA 22202. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC AVAILABILITY IS GOVERNED BY 5 U.S.C. 552. 1/8" = 1'-0" SHEET SIZE: 30"x42" ARCH E1

C5 (C4) (C2) (C3) AREA A AREA B 0 0.9 1 7.9 8 (A.1)—/ IDF W205.4 A2 TY-402 A1 LEVEL 2 SECURITY PLAN - OVERALL 1/16" = 1'-0"

> WARNING: THIS DOCUMENT CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PART 1520. NO PART OF THIS DOCUMENT MAY BE RELEASED TO PERSONS WITHOUT A NEED TO KNOW, AS DEFINED IN 49 CFR 1520,

TRANSPORTATION SECURITY ADMINISTRATION, ARLINGTON, VA 22202. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT

EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE

AGENCIES, PUBLIC AVAILABILITY IS GOVERNED BY 5 U.S.C. 552.

GENERAL SHEET NOTES:

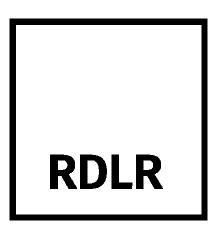
REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.

2. SCREENED DEVICES DENOTE EXISTING.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION CENTER

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





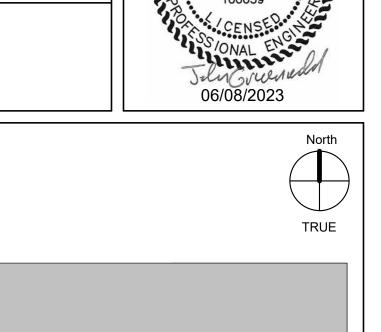
DESIGNER PROJECT No.: 2022.013 PROJECT STATUS: IFB **REVISIONS** DATE BY No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 11/11/2022 PERMIT COMMENTS 2 05/05/2023 ISSUE FOR BID & CONSTRUCTION ISSUE FOR BID 06/08/2023

PGA
PGA
PGA
06/08/2023
RDLR
06/08/2023

DIRECTOR HOUSTON AIRPORT SYSTEM

Drawing Status ISSUE FOR BID

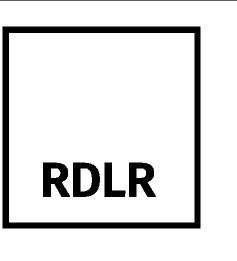




LEVEL 2 SECURITY PLAN - OVERALL 1/16" = 1'-0"

GENERAL SHEET NOTES: REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION. HOUSTON AIRPORTS 2. SCREENED DEVICES DENOTE EXISTING. DEVICES ON THIS SHEET SHALL TERMINATE IN IDF W205.4. GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY, HUMBLE, TEXAS 77396 IAH INTEGRATED COORDINATION CENTER PN793 A.I.P. No. N/A D.O.A. No. B.S.G. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH 7.9 **RDLR** E N G I N E E R S , I N C

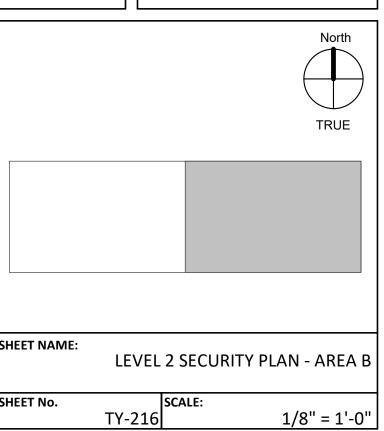
3838 N Sam Houston Pkwy E., Ste. 550
Houston, TX 77032
346.570.2418
p g a e n g i n e e r s . c o m
TBPE FIRM #12493 MECHANICAL 247 **DESIGNER PROJECT No.:** PROJECT STATUS: **REVISIONS** ICC CONFERENCE AND TRAINING 250 No. DESCRIPTION 10/06/2022 **ISSUE FOR PERMIT** 10/26/2022 PERMIT COMMENTS 1 11/11/2022 PERMIT COMMENTS 2 05/05/2023 ISSUE FOR BID & CONSTRUCTION ISSUE FOR BID 06/08/2023 TSA MANAGER
245 TY-601 I2.A02 (WEST ENTRANCE) IT SUPPORT DIRECTOR **HOUSTON AIRPORT SYSTEM** ISSUE FOR BID A1 LEVEL 2 SECURITY PLAN - AREA B 1/8" = 1'-0" WARNING: THIS DOCUMENT CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PART 1520. NO PART OF THIS DOCUMENT MAY BE RELEASED TO PERSONS WITHOUT A NEED TO KNOW, AS DEFINED IN 49 CFR 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION, ARLINGTON, VA 22202. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC AVAILABILITY IS GOVERNED BY 5 U.S.C. 552.

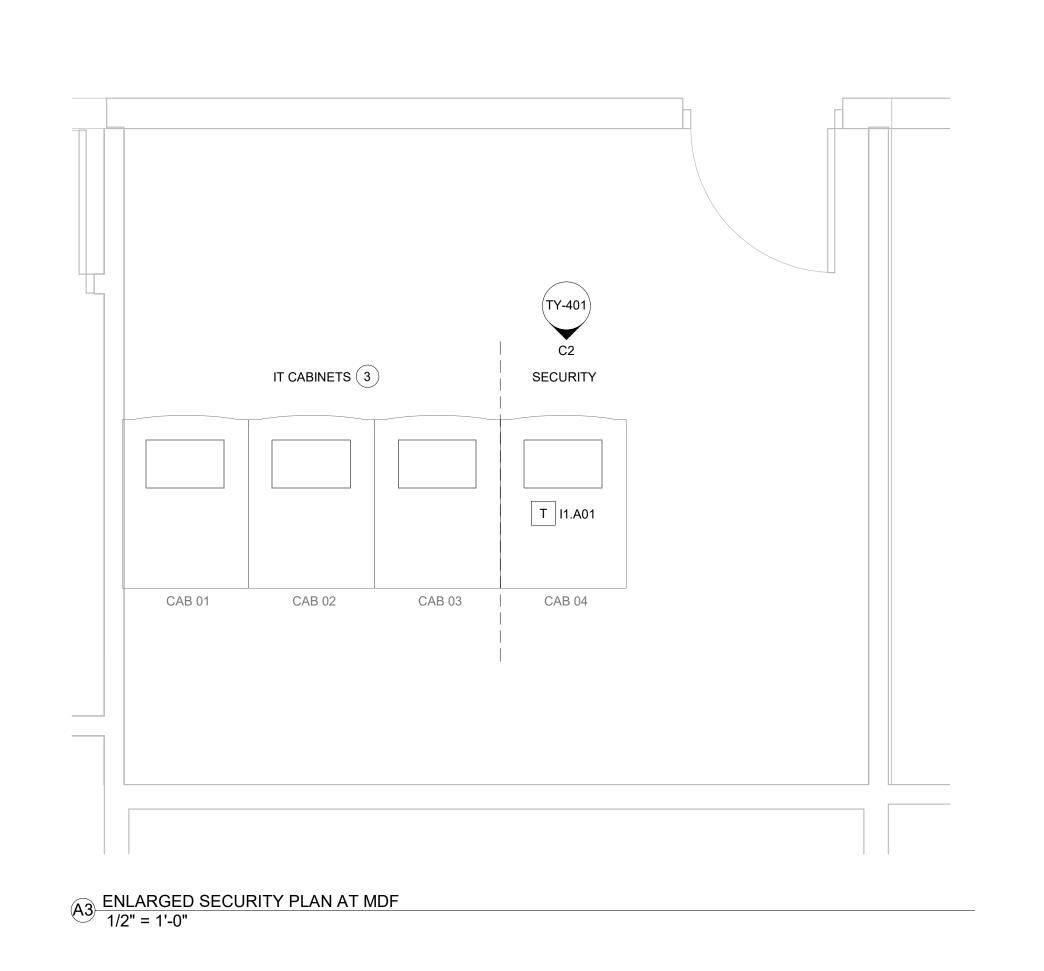


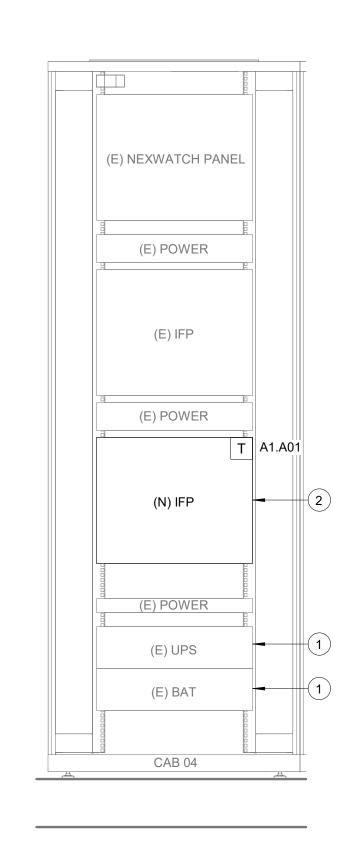
2022.013 IFB DATE BY

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DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

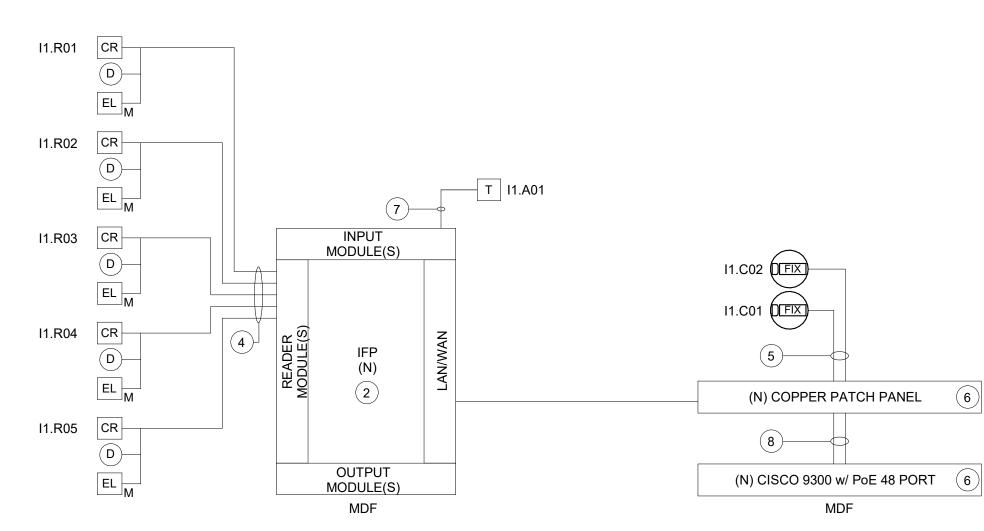








C2 RACK ELEVATION AT MDF 1" = 1'-0"



A1 SECURITY ONE LINE DIAGRAM - MDF NTS

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GENERAL SHEET NOTES:

- REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.
- SCREENED DEVICES DENOTE EXISTING.
- ACCESS CONTROL CABLING SHALL COMPLY WITH SPECIFICATION SECTION 281300.
- 4. DATA CABLING SHALL COMPLY WITH
- DIVISION 27 SPECIFICATION.

KEY NOTES:

- REMOVE UPS AND RETURN TO HAS IT AFTER NEW ICC UPS IS INSTALLED AND COMMISSIONED.
- (N) IFP PROWATCH PANEL. REFER 4/TY-601 FOR DETAILS.
- REFERENCE T-401 FOR NEW SECURITY NETWORK SWITCH LOCATION.
- PROVIDE QTY 1 ACCESS CONTROL COMPOSITE CABLE TO EACH DOORS. ACCESS CONTROL CABLING SHALL COMPLY WITH SPECIFICATION SECTION
- PROVIDE QTY 1 CAT6 CABLE TO EACH CAMERAS (TYP.). DATA CABLING SHALL COMPLY WITH DIVISION 27 SPECIFICATION.
- EQUIPMENT BY DIVISION 27. REFER TO TELECOM DRAWING FOR MORE INFORMATION.

281300.

- PROVIDE QTY 1 1PR 22 AWG SHIELDED ALARM CABLE TO EACH ALARM POINTS
- 8 CAT6 PATCHCORD CABLES.

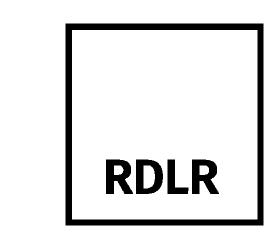
GENERAL SERVICES FACILITY

HUMBLE, TEXAS 77396 | IAH INTEGRATED COORDINATION |

CENTER

4551 WILL CLAYTON PKWY,

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH

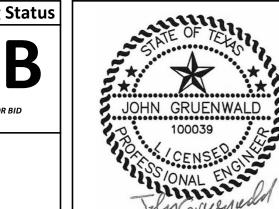


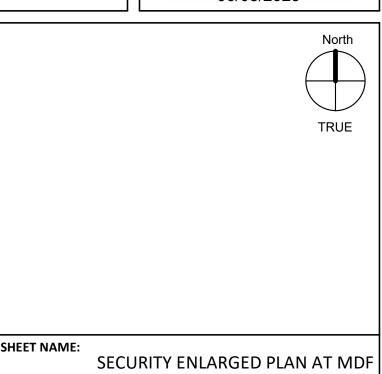


DES	IGNER PROJECT No.:		2022.013
PROJ	ECT STATUS:		
			IFB
	REVISI	ONS	
No.	DESCRIPTION	DATE	ВҮ
	ISSUE FOR PERMIT	10/06/2022	
1	PERMIT COMMENTS 1	10/26/2022	
2	PERMIT COMMENTS 2	11/11/2022	
3	ISSUE FOR BID &	05/05/2023	
	CONSTRUCTION		
4	ISSUE FOR BID	06/08/2023	

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DRAWN BY:	PGA
CHECKED BY:	PGA
ISSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

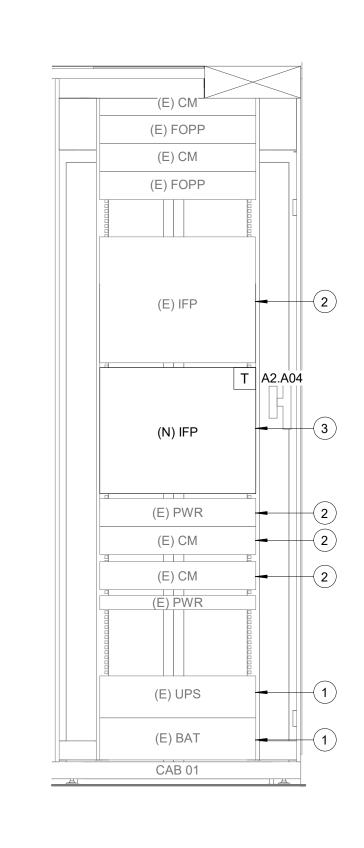
DIRECTOR of HOUSTON AIRPORT SYSTEM





As indicated

IT CABINETS SECURITY T I2.A01 CAB 02 CAB 01 A2 ENLARGED SECURITY PLAN AT IDF W205.4
1/2" = 1'-0"



C2 RACK ELEVATION AT IDF W205.4 1" = 1'-0"

GENERAL SHEET NOTES:

- REFER TO GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SHEETS FOR ADDITIONAL INFORMATION.
- 2. SCREENED DEVICES DENOTE EXISTING.
- ACCESS CONTROL CABLING SHALL COMPLY WITH SPECIFICATION SECTION 281300.

DIVISION 27 SPECIFICATION.

4. DATA CABLING SHALL COMPLY WITH

KEY NOTES:

- REMOVE UPS AND RETURN TO HAS IT AFTER NEW ICC UPS IS INSTALLED AND COMMISSIONED.
- RE-ARRANGE (E) EQUIPMENT TO FIT (N)
- (N) IFP PROWATCH PANEL. REFER 4/TY-601 FÓR DETAILS.
- REFERENCE T-402 FOR NEW SECURITY NETWORK SWITCH LOCATION.
- PROVIDE QTY 1 ACCESS CONTROL COMPOSITE CABLE TO EACH DOORS. ACCESS CONTROL CABLING SHALL COMPLY WITH SPECIFICATION SECTION
- PROVIDE QTY 1 CAT6 CABLE TO EACH CAMERAS AND CALL BOXES (TYP.). DATA CABLING SHALL COMPLY WITH DIVISION 27 SPECIFICATION.
- EQUIPMENT BY DIVISION 27. REFER TO TELECOM DRAWING FOR MORE INFORMATION.

281300.

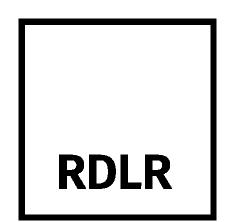
- PROVIDE QTY 1 1PR 22 AWG SHIELDED ALARM CABLE TO EACH ALARM POINTS (TYP.).
- 9 CAT6 PATCHCORD CABLES.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

IAH INTEGRATED COORDINATION CENTER

HUMBLE, TEXAS 77396

C.I.P. No.	PN793	A.I.P. No.	N/A
C.O.H. No.	N/A	D.O.A. No.	N/A
B.S.G. No.	BSG-2022-257-IAH	T.I.P. No.	TIP-22-219-IAH



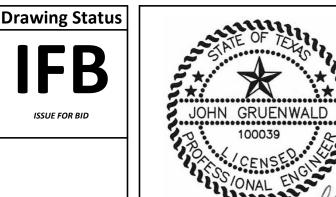


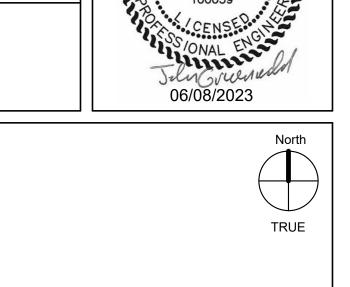
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PROJ	ECT STATUS:					
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No.	DESCRIPTION DATE BY					
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2	PERMIT COMMENTS 2	11/11/2022				
3	ISSUE FOR BID & CONSTRUCTION	05/05/2023				
4	ISSUE FOR BID	06/08/2023				

DESIGN BY:	PGA
DRAWN BY:	PGA
CHECKED BY:	PGA
SSUE DATE:	06/08/2023
APPROVED BY:	RDLR
APPROVAL DATE:	06/08/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM







SECURITY ENLARGED PLAN AT IDF W205.4 As indicated

SHEET SIZE: 30"x42" ARCH E1

I2.R02 CR I2.R03 CR I2.S03 IC I2.S02 IC I2.R04 CR D EL M I2.S01 IC M 12.C04 () FIX I2.R05 CR
D
EL
M INPUT MODULE(S) I2.R06 CR D EL M (N) COPPER PATCH PANEL I2.R07 CR OUTPUT MODULE(S) (N) CISCO 9300 w/ PoE 48 PORT 7 IDF W205.4 IDF W205.4 A1 SECURITY ONE LINE DIAGRAM - IDF W205.4 NTS

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I2.R01 CR

DOOR
HARDWARE
(RY DIV. 8)

ASSOCIATED TERMINATING REFERENCE
DOOR DETAIL ITEM READER NO. SHEET NO. LEVEL DOOR NO. **READER TYPE** LOCATION 1/TY-601 CORRIDOR 141/EM COORDINATORS 149 PROX W/ KEYPAD WALL NOTE 2, 5, 6 1/TY-601 TY-213 LEVEL 1 CORRIDOR 141/AD-ICC & EM 151 PROX W/ KEYPAD WALL NOTE 2, 5, 6 1/TY-601 PROX W/ KEYPAD WALL NOTE 2, 5, 6 LEVEL 1 CORRIDOR 141/AD-ICC & EM MGR 150 TY-213 PROX W/ KEYPAD WALL NOTE 2, 5, 6 | I2.C01 IDF W205.4 1/TY-601 I2.R01 TY-216 LEVEL 2 CORRIDOR 201/AOC 240 PROX W/ KEYPAD WALL IDF W205.4 1/TY-601 I2.R02 NOTE 2, 5, 6 TY-216 LEVEL 2 AOC 240/COMM SUPV/ADMIN AREA 251 PROX W/ KEYPAD WALL IDF W205.4 1/TY-601 I2.R03 TY-216 LEVEL 2 COMM SUPV/ADMIN AREA 251/COMM MANAGER 252 NOTE 2, 5, 6 PROX W/ KEYPAD WALL I2.R04 AOC 240/TSA SOCC 202 IDF W205.4 1/TY-601 TY-216 LEVEL 2 NOTE 2, 5, 6 | I2.C02 PROX W/ KEYPAD WALL LEVEL 2 AOC 240/TSA MANAGER 245 NOTE 2, 5, 6 IDF W205.4 1/TY-601 TY-216 IDF W205.4 1/TY-601 AOC 240/HPD SGT 244 PROX W/ KEYPAD WALL NOTE 2, 5, 6 TY-216 LEVEL 2 IDF W205.4 1/TY-601 TY-216 LEVEL 2 243 AOC 240/AIRPORT DUTY MANAGER 243 PROX W/ KEYPAD WALL NOTE 2, 5, 6 A4 CARD READER SCHEDULE NTS

	ITEM CAMERA NO.	SHEET NO.	LEVEL	CAMERA VIEW	CAMERA TYPE	CAMERA MOUNTING TYPE	TERMINATING IDF	REFERENCE MOUNTING DETAIL
1	I1.C01	TY-213	LEVEL 1	ACTIVITY AT EMERGENCY OPERATIONS CENTER 143A	HD FIXED	CEILING	MDF	3A/TY-601
2	I1.C02	TY-213	LEVEL 1	ACTIVITY AT EMERGENCY OPERATIONS CENTER 143B	HD FIXED	CEILING	MDF	3A/TY-601
3	I2.C01	TY-216	LEVEL 2	ACTIVITY AT DOOR 240	HD FIXED	CEILING	IDF W205.4	3A/TY-601
4	I2.C02	TY-216	LEVEL 2	ACTIVITY AT DOOR 202	HD FIXED	CEILING	IDF W205.4	3A/TY-601
5	I2.C03	TY-216	LEVEL 2	ACTIVITY AT INTEGRATED COORDINATION CENTER 240	HD FIXED	CEILING	IDF W205.4	3A/TY-601
6	I2.C04	TY-216	LEVEL 2	ACTIVITY AT INTEGRATED COORDINATION CENTER 240	HD FIXED	CEILING	IDF W205.4	3A/TY-601

A3 CAMERA SCHEDULE NTS

ITEM	CAMERA NO.	SHEET NO.	LEVEL	LOCATION	ALARM TYPE	TERMINATING IDF	REFERENCE DETAIL
	114 404		1.5.6.4	MDE (N) IED	TAMBER		
1	I1.A01	TY-401	LEVEL 1	MDF (N) IFP	TAMPER	MDF	-
2	I2.A01	TY-402	LEVEL 2	IDF 172 (N) IFP	TAMPER	IDF W205.4	-
3	I2.A02	TY-402	LEVEL 2	COMM SUPERVISOR DESK	DOOR MOMENTARY PUSH BUTTON	IDF W205.4	5/TY-601
4	I2.A03	TY-402	LEVEL 2	COMM SUPERVISOR DESK	DOOR MOMENTARY PUSH BUTTON	IDF W205.4	5/TY-601
5	I2.S01	TY-402	LEVEL 2	COMM SUPERVISOR DESK	INTERCOM MASTER STATION	IDF W205.4	-
6	I2.S02	TY-402	LEVEL 2	ICC WEST ENTRANCE	INTERCOM	IDF W205.4	-
7	10.000	TV 400	LEVEL 2	ICC EAST ENTRANCE	INITEDCOM	IDE MOOF 4	

ITEM	CAMERA NO.	SHEET NO.	LEVEL	LOCATION	ALARM TYPE	TERMINATING IDF	REFERENCE DETAIL
1	I1.A01	TY-401	LEVEL 1	MDF (N) IFP	TAMPER	MDF	-
2	I2.A01	TY-402	LEVEL 2	IDF 172 (N) IFP	TAMPER	IDF W205.4	-
3	I2.A02	TY-402	LEVEL 2	COMM SUPERVISOR DESK	DOOR MOMENTARY PUSH BUTTON	IDF W205.4	5/TY-601
4	I2.A03	TY-402	LEVEL 2	COMM SUPERVISOR DESK	DOOR MOMENTARY PUSH BUTTON	IDF W205.4	5/TY-601
5	I2.S01	TY-402	LEVEL 2	COMM SUPERVISOR DESK	INTERCOM MASTER STATION	IDF W205.4	-
6	I2.S02	TY-402	LEVEL 2	ICC WEST ENTRANCE	INTERCOM	IDF W205.4	-
7	I2.S03	TY-402	LEVEL 2	ICC EAST ENTRANCE	INTERCOM	IDF W205.4	-

A2 ALARM POINT SCHEDULE NTS

LOCATION WITH HAS. DOOR POSITION SWITCH, DPDT (FLUSH MOUNT). DOOR POSITION SWITCH, DPDT (SURFACE MOUNT). ELECTRIFIED EXIT PANIC BAR WITH REX SWITCH. ELECTRIFIED MORTISE LOCK w/ REX SWITCH (FAIL SECURE). ELECTRIC POWER TRANSFER. ELECTROMAGNETIC LOCK (FAIL EXIT PUSH BUTTON (DPDT). NOTE 8:

COORDINATE EXACT MOUNTING

NOTES: NOTE 1:

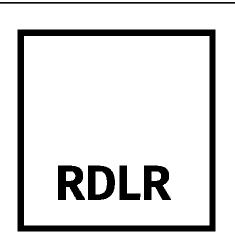


GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

IAH INTEGRATED COORDINATION CENTER

HUMBLE, TEXAS 77396

PN793 A.I.P. No. N/A D.O.A. No. BSG-2022-257-IAH T.I.P. No. TIP-22-219-IAH





DESIGNER PROJECT No.:			2022.013	
PROJ	ECT STATUS:		IFB	
	REVIS	IONS		
No.	DESCRIPTION	DATE	ВҮ	
	ISSUE FOR PERMIT	10/06/2022		
1	PERMIT COMMENTS 1	10/26/2022		
2	PERMIT COMMENTS 2	11/11/2022		
3	ISSUE FOR BID & CONSTRUCTION	05/05/2023		
4	ISSUE FOR BID	06/08/2023		

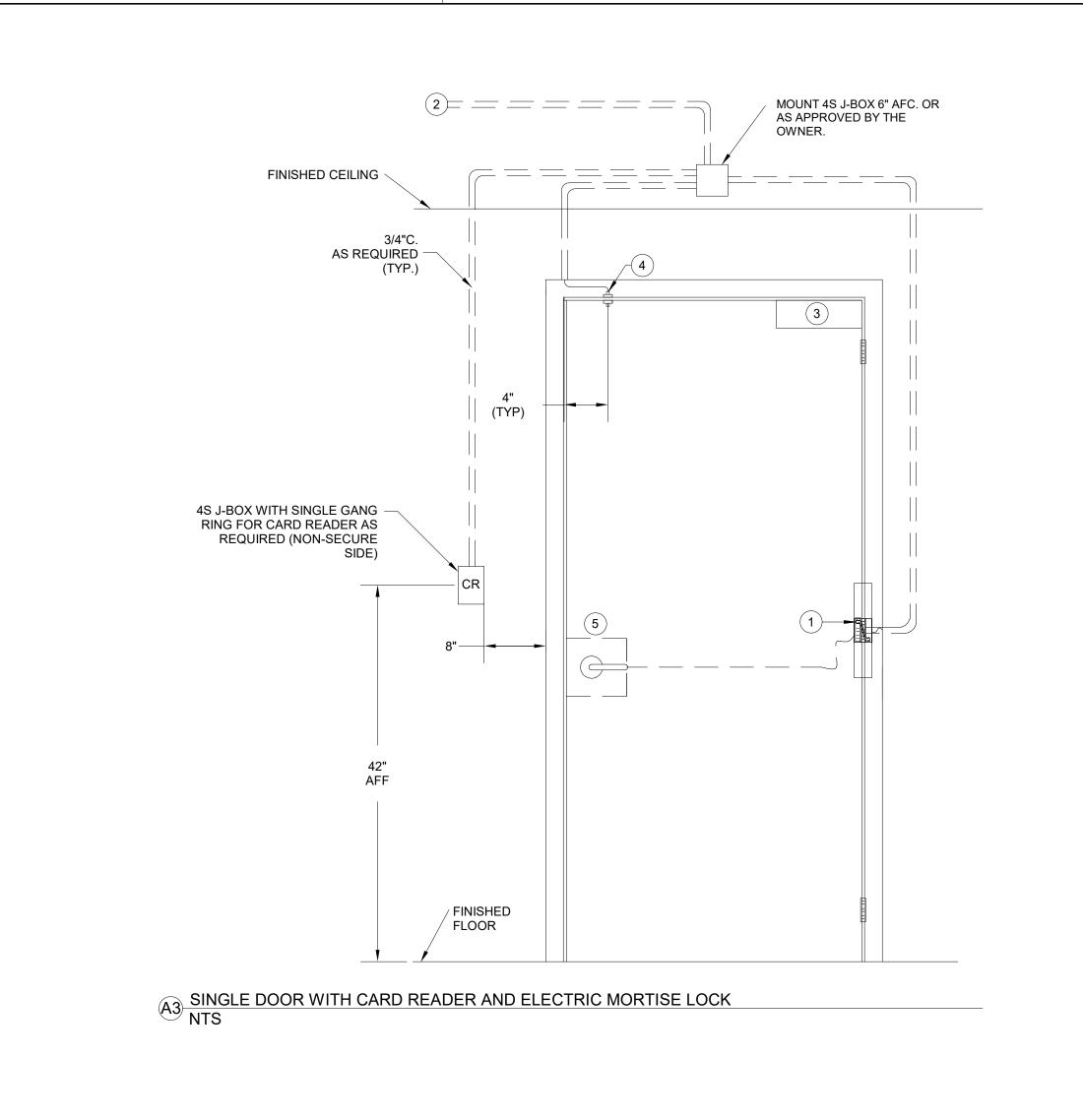
APPROVAL DATE:	06/08/2023
APPROVED BY:	RDLR
ISSUE DATE:	06/08/2023
CHECKED BY:	PGA
DRAWN BY:	PGA
DESIGN BY:	PGA

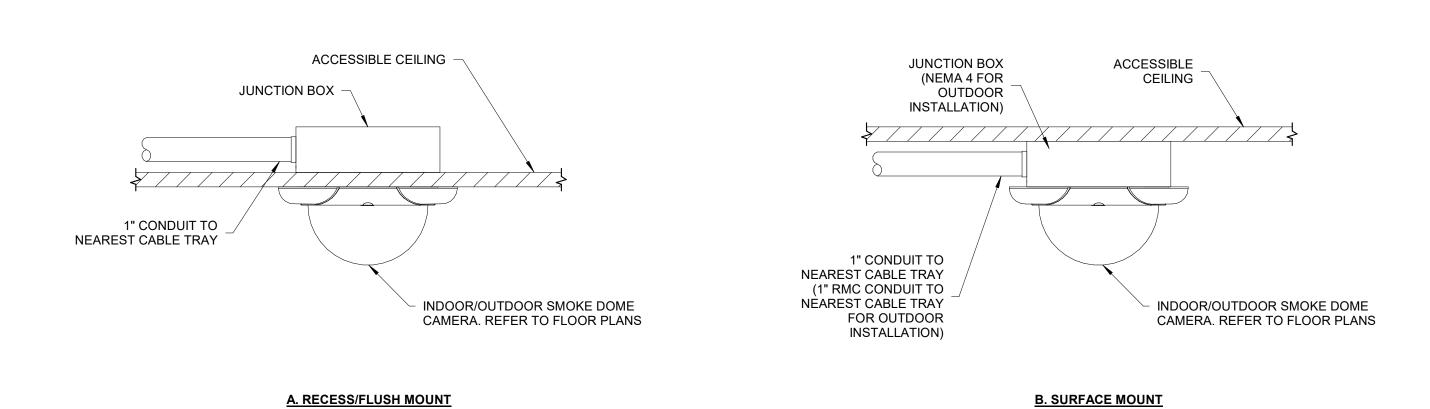
HOUSTON AIRPORT SYSTEM

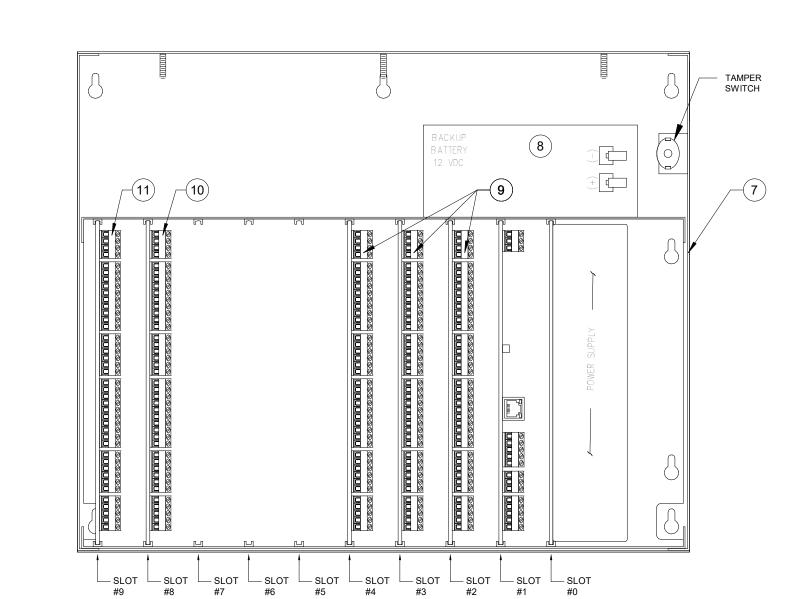


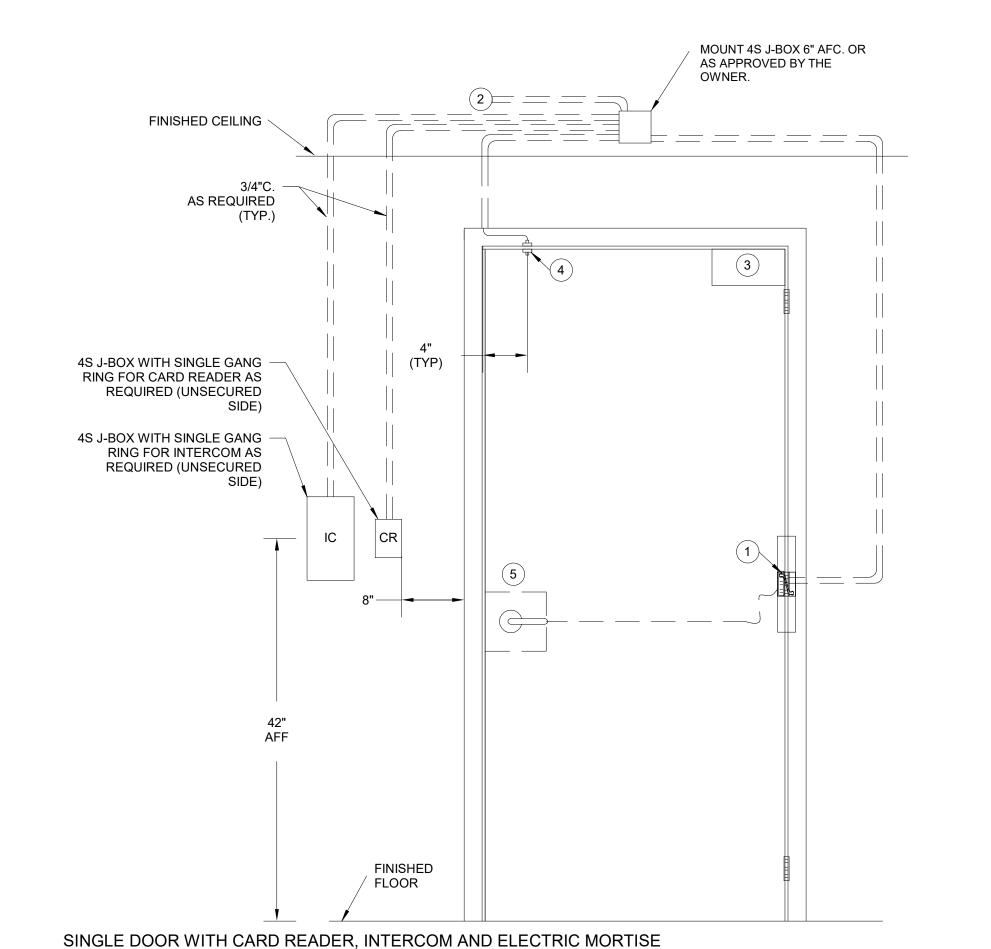
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SECURITY EQUIPMENT SCHEDULES

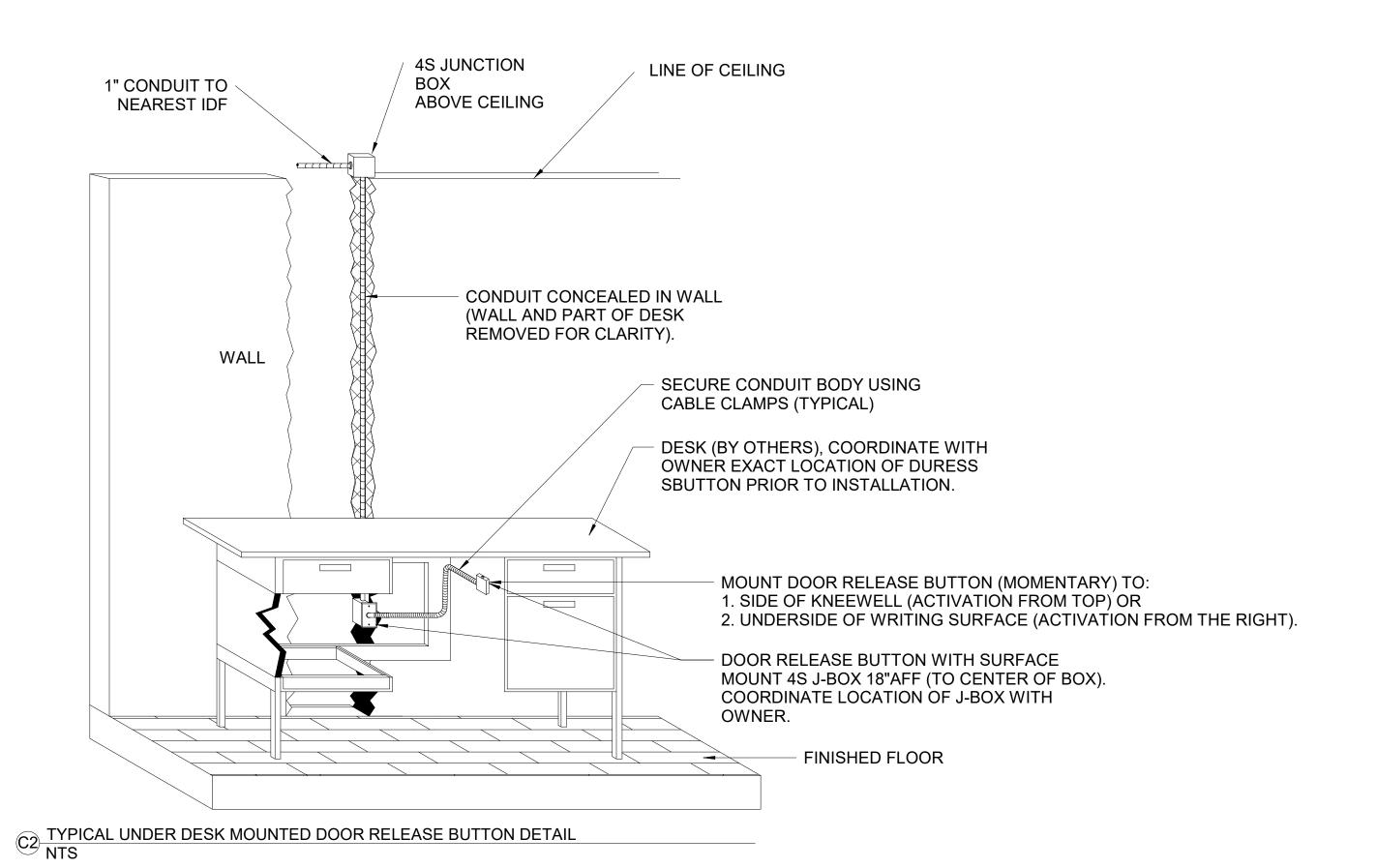








C3 LOCK NTS





- VIEW SHOWN IS FROM SECURED SIDE OF PORTAL. CONDUIT, BOXES AND EQUIPMENT SHALL BE MOUNTED ON SECURED SIDE OF PORTAL, UNLESS
 - OTHERWISE NOTED. CONDUITS MAY BE COMBINED. IF COMBINED, CONTRACTOR SHALL
 - ENSURE CONDUIT IS SIZED TO ACCEPT REQUIRED CONDUCTORS PER NEC. COORDINATE MOUNTING LOCATIONS,
 - ROUGH-IN AND FINISHES WITH THE OWNER. CONDUIT SHALL BE CONCEALED
 - UNLESS OTHERWISE NOTED. DOOR HARDWARE SHOWN FOR REFERENCE ONLY. TYPE OF HARDWARE MAY VARY. ALL DOOR HARDWARE SHALL HAVE KEY
 - CYLINDER UNLESS NOTED OTHERWISE. PROVIDE CONDUIT ONLY WHERE WIRING CANNOT ROUTE IN DOOR
 - ALL SECURITY DOORS SHALL HAVE
- DOOR CLOSER. SECURITY DOOR DETAILS SHOWN ARE DIAGRAMMETIC FOR DESIGN PURPOSE. MEANS AND METHOD BY CONTRACTOR. SHOP DRAWING REQUIRED PRIOR TO INSTALLATION.

KEY NOTES:

- ELECTRIC POWER TRANSFER (BY DIV. 8).
- 1"C TO NEAREST IDF, TERMINATE CABLES IN
- (3) DOOR CLOSER (BY DIV. 8).
- DOOR CONTACT (FLUSH MOUNT).

SLOT #1.

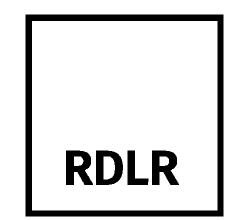
- ELECTRIFIED MORTISE LOCK WITH BUILT-IN REX (BY DIV. 8).
- (6) EXIT PANIC DEVICE WITH ELECTRIFIED EXIT PANIC BAR AND REX SWITCH (BY DIV. 8).
- PROVIDE FIELD PANEL ENCLOSURE WITH POWER SUPPLY AND BATTERY BACK UP. THE FIRST FIELD PANEL SHALL HAVE THE INTELLIGENT CONTROLLED MOUNTED TO
- BATTERY BACKUP SHALL BE SIZED TO CARRY FULL LOAD FOR FOUR (4) HOURS.
- DUAL READER MODULE: PROVIDE DUAL READER MODULES AS NECESSARY FOR THIS
- PROVIDE INPUT MODULE IN SLOT 8. QTY AS REQUIRED FOR PROJECT.
- PROVIDE OUTPUT MODULE IN SLOT 9. QTY AS REQUIRED FOR PROJECT.

GENERAL SERVICES FACILITY 4551 WILL CLAYTON PKWY,

HUMBLE, TEXAS 77396

IAH INTEGRATED COORDINATION

		CEN	TER	
	C.I.P. No.	PN793	A.I.P. No.	N/
4	C.O.H. No.		D.O.A. No.	
	B.S.G. No.	BSG-2022-257-IAH	T.I.P. No.	TIP-22-219-IA

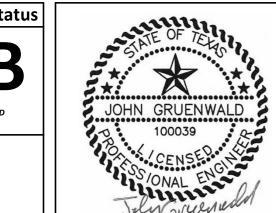


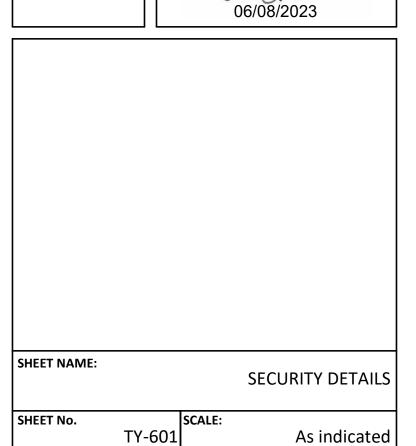


DESIGNER PROJECT No.: 2022.013				
PROJ				
PROJ	IFB			
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	CONSTRUCTION			
4	ISSUE FOR BID	06/08/2023		

DESIGN BY:	PG
DRAWN BY:	PG
CHECKED BY:	PG
ISSUE DATE:	06/08/202
APPROVED BY:	RDL
APPROVAL DATE:	06/08/202

DIRECTOR HOUSTON AIRPORT SYSTEM





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A2 TYPICAL CAMERA MOUNTING DETAIL - CEILING MOUNT NTS