MAYOR

SYLVESTER TURNER

CITY COUNCIL MEMBERS

AMY PECK - DISTRICT A

JERRY DAVIS - DISTRICT B

ABBIE KAMIN - DISTRICT C

CAROLYN EVANS-SHABAZZ - DISTRICT D

DAVID MARTIN - DISTRICT E

TIFFANY D. THOMAS - DISTRICT F

GREG TRAVIS - DISTRICT G

KARLA CISNEROS - DISTRICT H

CONTROLLER

CHRIS B. BROWN

CITY COUNCIL MEMBERS

ROBERT GALLEGOS - DISTRICT I

EDWARD POLLARD - DISTRICT J

MARTHA CASTEX-TATUM - DISTRICT K

MIKE KNOX - AT LARGE POSITION 1

DAVID ROBINSON - AT LARGE POSITION 2

MICHAEL KUBOSH - AT LARGE POSITION 3

LETITIA PLUMMER - AT LARGE POSITION 4

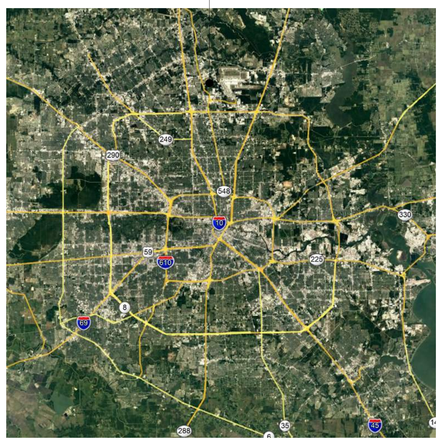
SALLIE ALCORN - AT LARGE POSITION 5

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

AT

GEORGE BUSH INTERCONTINENTAL AIRPORT

PROJECT LOCATION



AREA MAP - N.T.S.

TIP NO. TIP-20-259-IAH

BSG PROJECT NO. BSG-2020-288-IAH

PREPARED BY

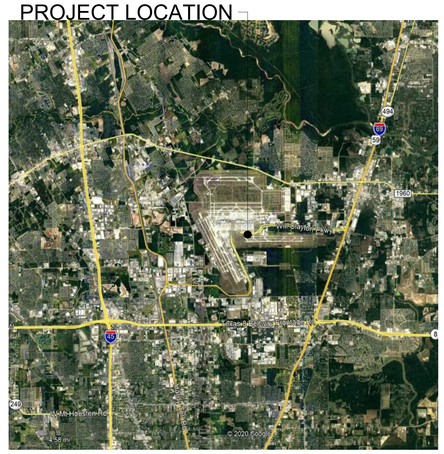
RDLR

02/03/23

HOUSTON AIRPORT SYSTEM

MARIO C. DIAZ - DIRECTOR

PROJECT LOCATION



VICINITY MAP - N.T.S.

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No. PN257A	A.I.P. No.
C.O.H. No.	D.O.A No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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

DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	SD
	ISSUE FOR PERMIT	11/20/2020	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	KD
CHECKED BY:	DO
ISSUE DATE:	02/03/23
APPROVED BY:	DO
APPROVAL DATE:	02/03/23

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/ Approval Category

IFC

ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIEL E. ORTIZ 25004 STATE OF TEXAS

02/03/2023

SHEET NAME: COVER SHEET

SHEET No. G-000 SCALE:

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt

HAS FILE:

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

Aconex File Name:

ARCHITECTURAL ABBREVIATIONS

&	AND
@	AT
A	ANGLE
A/C	AIR CONDITIONER / CONDITIONING
ABV	ABOVE
ACCS	ACCESSORIES
ACSDR	ACCESS DOOR
ACSFLR	ACCESS FLOOR
ACST / ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE / ADJACENT
ADMIN	ADMINISTRATION
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
AL / ALUM	ALUMINUM
ALNMT	ALIGNMENT
ALT	ALTERNATE
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY
APPVD	APPROVED
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AUTO	AUTOMATIC
AVG	AVERAGE
BD	BOARD
BG	BUMPER GUARD
BITUM	BITUMINOUS
BL	BLACK
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BMS	BALANCE MAGNETIC SWITCH
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BS	BOTH SIDES
CAB	CABINET
CAS	CASEWORK
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT
CG	CORNER GUARD
CH	CEILING HEIGHT
CHAM	CHAMFER
CHBD	CHALKBOARD
CI	CAST IRON
CI	CONTRACTOR INSTALLED
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN/CLEAR OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPR	COPPER
CPT	CARPET(ED)(ING)
CT	CERAMIC TILE
CTR	COUNTER
DBL	DOUBLE
DEFS	DIRECT APPLIED EXTERIOR FINISH SYSTEM
DEG	DEGREE
DEMO	DEMOLISH
DEP	DEPRESSION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FREE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSED / ENCLOSURE
ENG	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL(LY)
EQPT	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FAST	FASTEN(ER)
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEC (R)	FIRE EXTINGUISHER CABINET, RECESSED
FEC (SR)	FIRE EXTINGUISHER CABINET, SEMI-RECESSED
FEW	FIRE EXTINGUISHER, WALL MOUNTED
FF	FINISHED FLOOR
FGL	FIBERGLASS
FIN	FINISH(ED)
FIXT	FIXTURE
FL	FLOOR
FLASH	FLASH(ING)
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
FP	FIREPROOF
FPL	FIREPLACE
FR	FRAME
FRC	FIBER REINFORCED CONCRETE
FRGP	FIBER REINFORCED GYPSUM PLASTER
FRT	FIRE RETARDANT TREATED
FS	FLOOR SINK
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZE(D)
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS / GLAZING
GND	GROUND
GR	GRADE
GRV	GRAVEL
GT	GLASS TILE
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIB
HC	HOLLOW CORE
HCP	HANDICAPPED
HD	HEAVY DUTY
HD	HARD
HDR	HEADER
HDWR	HARDWARE
HI	HIGH
HM	HOLLOW METAL
HMI	HOLLOW METAL INSULATED
HOR / HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL
HR	HOUR
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HW	HARDWARE
HYD	HYDRANT
ID	INSIDE DIAMETER
IN	INCH / INCHES
INCL	INCLUDE(D) / INCLUDING
INSUL	INSULATE / INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LB(S)	POUND(S)
LF	LINEAR FOOT (FEET)
LH	LEFT HAND
LIB	LIBRARY
LKR	LOCKER
LNS	LINOLEUM SHEET
LNT	LINOLEUM TILE
LP	LOW POINT
LT	LIGHT
LVR	LOUVER
LWT	LIGHT WEIGHT
MACH	MACHINE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MC	MEDICINE CABINET
ME	MECHANICAL EQUIPMENT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD / MLDG	MOULDING
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MUL	MULLION
N	NORTH
NA OR N/A	NOT AVAILABLE / APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO / #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OPG / OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PART	PARTIAL
PAT	PATTERN
PBD	PARTICLE BOARD
PC / PCC	PRECAST CONCRETE
PED	PEDESTAL
PER	PERIMETER
PERF	PERFORATED
PERP	PERPENDICULAR
PF	PRE-FINISHED
PIP	POURED-IN-PLACE
PL	PROPERTY LINE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PMF	PRESSED METAL FRAMES
POP	POINT OF PRESENCE
PR	PAIR
PRCST	PRE-CAST
PREFAB	PREFABRICATED
PROP	PROPERTY
PRT	PORCELAIN TILE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTD/WR	PAPER TOWEL DISPENSER &WASTE RECEPTACLE
PTDF	PRESSURE TREATED DOUGLAS FIR
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
Q	QUARTZ
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(D)
REQ	REQUIRED
RESIL	RESILIENT
RESS	RESILIENT SHEET
REST	RESILIENT TILE
RET	RETAINING
REV	REVISE / REVISION
RFG	ROOFING
RFL	REFLECTED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RS	RUBBER SHEET FLOORING
RST	RUBBER STAIR TREADS
RSTR	RUBBER STAIR TREADS & RISERS
RT	RUBBER TILE
RWD	REDWOOD
RWL	RAIN WATER LEADER
S	SOUTH
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCN	SCREEN
SCR	SCREEN
SD	SOAP DISPENSER / STORM DRAIN
SDC	SEALED CONCRETE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SHTG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SOG	SLAB ON GRADE
SPEC	SPECIFY / SPECIFICATION
SPK	SPEAKER
SQ	SQUARE
SQFT	SQUARE FEET
SQIN	SQUARE INCH(ES)
SS	STAINLESS STEEL
ST	STONE
STA	STATION
STC	STAINED CONCRETE
STD	STANDARD
STDS	STUDS
STIFF	STIFFENER
STL	STEEL
STN	STAINED
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUSP	SUSPENDED
SW	SWITCH
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TBD	TO BE DETERMINED
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY / TEMPERATURE
TER	TERRAZZO
THK	THICK
THRU	THROUGH
TOC	TOP OF CONCRETE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNF / UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
V	VOLT
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VENT	VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VOL	VOLUME
VST	VINYL STAIR TREADS
VSTR	VINTYL STAIR TREADS & RISERS
VT	VINYL TILE
VTR	VENT THRU ROOF
VWC	VINYL WALLCOVERING
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCV	WALLCOVERING
WD	WOOD
WF	WIDE FLANGE
WG	WIRE GLASS
WH	WALL HOSE / HYDRANT
WI	WROUGHT IRON
WIN	WINDOW
WK	WORK
WNSCT	WAINSCOT
WP	WATERPROOF(ING)
WPT	WORK POINT
WR	WATER RESISTANT
WRR	WOOD RISER
WT	WEIGHT
YD	YARD

MATERIAL INDICATIONS

SECTION		ELEVATION
	CONCRETE	
	PRECAST CONCRETE	
	CMU	
	BRICK	
	CAST/CUT STONE	
	NATURAL STONE	
	STEEL	
	ALUMINUM	
	BRASS/BRONZE	
	FINISHED WOOD	
	EXTERIOR PLASTER AND LATHE	
	CERAMIC/QUARRY TILE	
	GLASS/MIRROR	
	EARTH	
	GRAVEL	
	SAND	
	CONT. WOOD BLOCKING	
	DISCONT. WOOD BLOCKING	
	PLYWOOD	
	SPRAY APPLIED FIREPROOFING	
	BATT/BLANKET INSULATION	
	RIGID INSULATION	
	GYPSUM BOARD	
	BACKER ROD & SEALANT	
	JOINT FILLER	
	ACOUSTICAL CEILING	

ARCHITECTURAL SYMBOLS

ROOM IDENTIFICATION
ROOM NAME
ROOM NUMBER

DOOR NUMBERING
SIDELIGHT (PART OF DOOR ASSEMBLY)
DOOR NUMBER TO COINCIDE WITH ADJOINING ROOM NUMBER

REVISION REFERENCE
REVISION REFERENCE MARK
REVISION CLOUD

DETAIL/SECTION DESIGNATOR
DETAIL OR SECTION NUMBER
DRAWING NO. (WHERE DETAIL OR SECTION IS DRAWN) (OMIT WHEN ON THE SAME DRAWING)
AREA OF ENLARGEMENT

BUILDING SECTION
WALL SECTION
SECTION IDENTIFICATION
DRAWING NO. WHERE DRAWN

DETAIL SECTION
DRAWING NUMBER WHERE DRAWN
ELEVATION NUMBER

EXTERIOR BUILDING ELEVATION
DRAWING NUMBER WHERE DRAWN
ELEVATION NUMBER

INTERIOR ROOM ELEVATIONS
DRAWING NUMBER WHERE DRAWN
ELEVATION NUMBER

PARTITION TYPE REFERENCE
REFER TO SHEETS

WINDOW TYPE REFERENCE
REFER TO SHEETS

COLUMN LINES

KEYNOTE

FURNISHINGS

SHEET INDEX

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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

DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	SD
	ISSUE FOR PERMIT	11/20/2020	SD
	REVISION #1	10/26/2021	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	KD
CHECKED BY:	DO
ISSUE DATE:	02/03/2023
APPROVED BY:	DO
APPROVAL DATE:	02/03/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIEL E. ORTIZ 28004 STATE OF TEXAS
02/03/2023

SHEET NAME:	SHEET INDEX, SYMBOLS LEGEND & ABBREVIATIONS
SHEET No.	G-002
SCALE:	As indicated

SHEET SIZE: 30"x42" ARCH E1

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

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt

HAS FILE:

Aconex File Name:

SECTION 084229.23 – SLIDING AUTOMATIC ENTRANCES
PART 1 - GENERAL
1.1 SUMMARY
A. This section includes the following types of automatic entrance doors:
1. Exterior and interior sliding automatic entrances.
B. Related Sections:
1. Division 7 Sections for caulking to the extent not specified in this section.
2. Division 8 Section "Door Hardware" for hardware to the extent not specified in this Section.
3. Division 26 and 28 Sections for electrical connections including conduit and wiring for automatic entrance door operators and access control devices.
1.2 DEFINITIONS
A. Activation Device: Device that, when actuated, sends an electrical signal to the door operator to activate the operation of the door.
1. Knowing act: Consciously initiating the opening of a power operated door using acceptable methods including wall mounted switches such as push plates and controlled access devices such as keypads, card readers and key switches.
B. Safety Device: A device that detects the presence of an object or person within a zone where contact could occur and provides a signal to stop the movement of the door.
1.3 PERFORMANCE REQUIREMENTS
A. Comply with the following:
1. ANSI/BHMA A156.10 American National Standard for Power Operated Pedestrian Doors.
2. UL 325 listed.
B. Automatic door equipment accommodates heavy pedestrian traffic.
C. Entrapment Force Requirements:
1. Power Operated Sliding Doors: Not more than 30 lbf (133 N) required to prevent stopped door from closing.
2. Sliding doors provided with a breakaway device shall require no more than 50 lbf (222N) applied 1 inch (25 mm) from the leading edge of the lock stile for the breakout panel to open.
D. Energy Code Requirements: Sliding automatic entrances that are required to meet construction energy code requirements in those districts that have adopted ASHRAE 90.1-2010/2013 shall have been evaluated based on methodology in accordance with the following National Fenestration Rating Council (NFRC) standards:
1. NFRC 100-2010: Procedure for Determining Fenestration Product U-Factors.
2. NFRC 200-2010: Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
3. NFRC 500-2010: Procedure for Determining Fenestration Product Condensation Resistance Values.
4. ASTM 283e-2010: Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
1.4 SUBMITTALS
A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, fabrication, operational descriptions, and finishes.
B. Shop Drawings: Submit manufacturer's shop drawings, including elevations, sections, and details, indicating dimensions, materials, and fabrication of doors, frames, sidelights, operator, motion /presence sensor control device, anchors, hardware, finish, options and accessories.
C. Samples: Submit manufacturer's samples of aluminum finish.
D. Manufacturers Field Reports: Submit manufacturer's field reports from AAADM certified technician of inspection and approval of doors for compliance with ANSI/BHMA A156.10 after completion of installation.
E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door opening installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the entrance and their nearest service representatives. The final copies delivered after completion of the installation test to include spare parts list.
F. Warranties and Maintenance: Special warranties and maintenance agreements specified in this Section.
1.5 QUALITY ASSURANCE
A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 10 years of documented experience in manufacturing of doors and equipment of similar to that indicated for this Project and that have a proven record of successful in-service performance. Manufacturer to have a company certificate issued by AAADM.
B. Installer Qualifications: Installers, trained by the primary product manufacturers, with a minimum 3 years documented experience installing and maintenance of units similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
C. Certified Inspector Qualifications: Certified by AAADM.
D. Source Limitations for Automatic Entrances: Obtain each type of door, frame, operator and sensor components specified in this Section from a single source, same manufacturer unless otherwise indicated.
E. Power-Operated Pedestrian Door Standard: ANSI/BHMA A156.10 (current version).
F. Emergency Exit door requirements: Comply with requirements of authorities having jurisdiction for automatic entrance doors serving as a required means of egress.
1.6 PROJECT CONDITIONS
A. Field Measurements: Verify actual dimensions of openings to receive automatic entrances by field measurements before fabrication and indicate on shop drawings.
1.7 COORDINATION
A. Coordinate sizes and locations of recesses in concrete floors for recessed tracks and thresholds if applicable. Concrete work is specified in Division 03.
B. Electrical System Roughing-in: Coordinate layout and installation of automatic entrances with connections to power supplies and access control system as applicable.
1.8 WARRANTY
A. General Warranty: Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
B. Automatic Entrance Doors shall be free of defects in material and workmanship for a period of One (1) year from the date of substantial completion.
C. During the warranty period a factory-trained technician shall perform service and affect repairs. An inspection shall be performed after each adjustment or repair.
D. During the warranty period all warranty work, including but not limited to emergency service, shall be performed during normal business hours.
E. Manufacturer shall have in place a dispatch procedure for emergency call back service that shall be available 24 hours a day, 7 days a week.
F. In addition to the warranty, Contractor is to provide a ten (10) year service contract with manufacturer. Service contract should match Assa Abloy Pro-Active Care Gold. Response time included should 24 hours. Include advanced user training.
PART 2 - PRODUCTS
2.1 MANUFACTURER
A. Manufacturer: ASSA ABLOY Entrance Systems, 1900 Airport Road, Monroe, NC 28110. Toll Free (877) SPEC-123.

Tim Poe
281-636-3566; Tim.Poe@assaabloy.com
B. Substitutions: Requests for substitution and product approval in compliance with the specifications must be submitted in writing and in accordance with the procedures outlined in Division 1, Section "Substitution Procedures". Approval of requests is at the discretion of the architect, owner, and their designated consultants.
2.2 SLIDING AUTOMATIC ENTRANCES
A. Sliding automatic entrance system including the following:
1. Sliding panels, sidelites and aluminum frame.
2. Overhead concealed, electro-mechanical operator.
3. Operator housing, guide system and carrier assemblies.
4. Controls and accessories as required for a complete installation.
B. Exterior Systems: Besam SL500 EcoDoor U-Factor (Basis of Design) Automatic Sliding Entrance with Stile and Rail Panels.
1. Single slide, fixed sidelite, energy efficient door system.
a. Configuration: Single slide, two equal panel unit with one operable leaf and one fixed sidelite.
b. Traffic Pattern: Two-way.
c. Emergency Breakaway Capability: Sliding leaf only.
d. Mounting: Overhead header installed between jambs.
C. Interior Systems: Besam SL500 (Basis of Design) Automatic Sliding Entrance with Stile and Rail Panels:
1. Single slide, fixed sidelite, door system.
a. Configuration: Single slide, two equal panel unit with one operable leaf and one fixed sidelite.
b. Traffic Pattern: Two-way.
c. Emergency Breakaway Capability: Sliding leaf only.
d. Mounting: Overhead header installed between jambs.
2.3 ENTRANCE COMPONENTS
A. Stile and Rail Sliding Panels and Sidelites:
1. Material: Extruded Aluminum, Alloy 6063-T5.
2. Door panels shall have a minimum .125 inch (3.2 mm) structural wall thickness including adjoining horizontal members and perimeter frames where applicable.
3. Door Construction shall be by means of an integrated corner block with 3/8 inch all-thread through bolt from each stile.
4. Full breakout sliding entrances shall include two interlocks per moving panel securing the leading stile of the sidelite and the butt stile of the sliding door panel together.
5. Vertical Stiles shall be narrow stile 2-1/8 inch (54 mm).
6. Bottom Rails shall be 7 inch (178 mm).
7. Intermediate Muntin shall be 1-3/4 inch (45 mm).
8. Weather-stripping: Slide-in type, replaceable pile mohair seals retained by the aluminum extrusions. The following types of weather-stripping are required: complementing weather-stripping on the joining vertical stiles of the sidelite and sliding door panels, complementing weather-stripping on the lead edge of the lock stiles of bi-parting doors, single pile weather-stripping between the carrier and the header, single pile weather-stripping on the lead edge stile of single slide door panels, dual pile weather-stripping on the pivot stile of breakout sidelite panels, and dual pile weather-stripping on the butt stile of fixed sidelite panels. Bottom rails shall be provided with an adjustable nylon sweep.
9. Besam EcoDoor Package:
a. EcoDoor Seals: High pile mohair weather stripping on the lock stile of the sliding doors, integrated mohair weather stripping with vinyl fin on the joining vertical stiles of the sidelite and sliding door panels, and expandable foam inserts in leading stile of sidelite panels at pockets for interlocks. Bottom rails shall be provided with a concealed adjustable nylon sweep.
10. U-Factor Door Package:
a. U-Factor door package shall have been evaluated in full compliance with the listed National Fenestration Rating Council (NFRC) and American Society for Testing and Materials (ASTM) standards: NFRC 100-2010, NFRC 200-2010, NFRC 500-2010, and ASTM 283e-2010.
b. U-Factor door package shall meet the following requirements:
1) U-Factor Rating 0.64 BTU/(h °F ft^2).
2) Solar Heat Gain Coefficient 0.28
3) Visible Light Transmittance 0.45
4) Condensation Resistance 22
5) Air infiltration rating 0.93 cuft/min/sqft 0.28x3/Mx2/min.
11. Glass: Glazing shall comply with ANSI Z97.1, thickness as indicated.
a. Glazing Sliding Panels and Sidelite Panels: 1/4" (6 mm) tempered glass.
b. U-Factor Glazing Sliding Panels and Sidelite Panels: 1" (25 mm) overall thickness insulating glass unit consisting of an interior and exterior glass lite; both lites to be 1/4 inch (6 mm) clear tempered glass. Airspace to be 90% argon filled.
1) Glazing shall be PPG Solarban 90 Clear, coated on surface 2, and the airspace 90% argon filled and meet the following listed requirements specified for U-Factor and Solar Heat Gain Coefficient:
a) U-Factor Summer (BTU/(h °F ft^2) 0.22
b) U-Factor Summer (W/(m^2K) 1.27
c) U-Factor Winter (BTU/(h °F ft^2) 0.25
d) U-Factor Winter (W/(m^2K) 1.4
e) Solar Heat Gain Coefficient 0.37
c. Glazing Installation: See Division 8 Section "Glazing" for requirements and the manufacturer instructions to meet the specified energy performance of the sliding entrance.
d. Glazing tint should match existing adjacent glazing. Provide samples for approval.
B. Door Carriers: Manufacturer's standard carrier assembly that allows vertical adjustment.
1. Single Slide and Bi-Parting Panels:
a. Carriage Assembly: Carriage bar with two wheel assemblies. Each assembly shall have tandem roller wheels.
b. Roller Wheels: Two heavy duty Delrin roller wheels per wheel assembly, for a total of four (4) roller wheels, 1-7/16 inch (36.51 mm) diameter, per active door leaf for operation over a replaceable aluminum track. Single journal with sealed oil impregnated bearings.
c. Two (2) heavy duty self-aligning anti-risers per leaf.
C. Framing Members: Provide automatic entrances as complete assemblies. Manufacturer's standard extruded aluminum framing reinforced as required to support loads.
1. Single Slide and Bi-Parting Entrance - Vertical Jambs: 1-3/4 inches (44.5 mm) by 4-1/2 inches (114.3 mm).
D. Header: Manufacturer's standard extruded aluminum header with a replaceable aluminum track extending full width of entrance unit. Header to conceal door operators, carrier assemblies, and roller track; complete with hinged access panel for service of door operator, and controls.
1. Single Slide and Bi-Parting Entrance:
a. Header Span: Maximum 16'-0" (4.9 m) without intermediate supports when entrance glazed with 1/4-inch glass.
b. Capacity: Capable of supporting active breakout leafs up to maximum of 300 lb (136 kg) per leaf when header is supported per manufacturer's recommendations.
c. Size: 4-1/2 inches (114.3 mm) wide by 7 inches (177.8 mm) high.
1) Header height including the sensor plate cap which spans the clear door opening width is 8 inches (204.3 mm) high.
2. Header Access: Continuous hinge at top of header allows cover to swing and allow complete access to operator and internal electronic and mechanical assemblies.
3. Design: Closed header when doors in closed position.
2.4 HARDWARE
A. Hardware: Provide manufacturer's standard hardware as required for operation indicated.
1. Breakaway arms and bottom pivot assemblies shall be supplied by the manufacturer and shall be adjustable to comply with applicable codes.
2. Locking hardware shall be provided as indicated.
a. Electrified slide lock shall automatically lock the sliding function of all sliding door panels within the entrance when the door panels are in the closed position.
1) Fail safe operation: Slide lock shall unlock the sliding function of the door panels upon loss of power.
b. Two point locking system with throw rod into carrier arm and mortise hookbolt. (Bi-parting sliding entrance).
1) Interior Side: Keyed cylinder. Lock indicators shall be provided if required by code.
2) Exterior Side: No cylinder.
3. Keyed cylinders shall be provided as indicated.
a. Manufacturer's standard keyed cylinder.

B. Guide Track/Threshold: Manufacturer's threshold as indicated.
1. Fixed Sidelight Entrance Guide Track: Aluminum guide track integrated in the bottom of the sidelite portion of the sliding automatic door assembly.
2. Fixed Sidelight Entrance Threshold: 1/2 inch (12.7 mm) high continuous aluminum threshold shall span the width of the sliding door header and fit between the vertical framing members. Threshold design shall allow for optional extruded ramps to securely interlock to flat section to meet ADA requirements. Aluminum guide track is integrated into the bottom of the sidelite portion of the door assembly.
a. Surface mounted threshold with interlocking ADA accessible ramps.
2.5 DOOR OPERATORS AND CONTROLS
A. Door Operator and Controller:
1. Electro-mechanical controlled unit utilizing a high-efficiency, energy efficient, DC motor requiring a maximum of 3 amp current draw, allowing 5 operators on one 20 amp circuit. The supplied system shall have the capability to operate at full performance well beyond a brown out and high line voltage conditions (85V – 265V) sensing changes and adjusting automatically. The operator shall allow an adjustable hold open time delay of 0 to 60 seconds and have internal software to incorporate a self-diagnostic system.
2. Operating Temperature Range: -31° F to 130° F (-35° C to 54.44° C).
B. Microprocessor Control Box:
1. Modular control unit to allow for changing technology. Factory-adjusted configuration with opening and closing speeds set to comply with ANSI/BHMA A156.10 requirements and electronic dampening to reduce wear on drive train. Should the drive train operations deviate from design criteria ranges, Watchdog Control Circuit Monitoring will assume command of the system and shut down the automatic function allowing a secondary supervisory circuit to perform as a backup. Control unit shall allow the following functions:
a. Diagnostics with the ability to produce application data.
2. Mode Selector Control:
a. Multi-position keyed cylinder mode selector control shall allow selection of the indicated functions to be engaged when switch is turned to the appropriate setting.
b. Mode Selector Control Mounting: Control shall be mounted as indicated:
1) Jamb mounted.
c. Mode selector control to allow the following functions:
1) "Off"
2) "Exit Only" one way traffic with automatic operation from the interior.
3) "Two Way Traffic" allowing automatic operation from exterior and interior.
4) "Partial Opening" energy saving door position allows door to automatically adjust opening width based on amount of usage, that is, full open during high use and partial open during low use. The control for this setting is programmable allowing adjustment to both the usage setting and the opening width.
5) "Hold Open" doors activated and held in the full open position.
2.6 ACTIVATION AND SAFETY CONTROL DEVICES
A. General: Provide the types of activation and safety devices specified in accordance with ANSI/BHMA standards, for the condition of exposure and for long-term, maintenance-free operation under normal traffic load for type of occupancy indicated. Coordinate activation and safety devices with door operation and door operator mechanisms.
B. Combination Activation Motion Sensor/Safety Presence Sensor:
1. Shall be a sliding door sensor utilizing K-band microwave technology to detect motion and focused active infrared technology to detect presence, combined in a single housing surface mounted on each side of the header.
a. Presence sensor shall remain active at all times.
b. The sensor shall communicate with the automatic door operator through a self-monitoring connection that allows the door to go into a fail-safe mode preventing the door from closing in the event of a sensor failure.
2. Motion/presence detecting sensors to be field installed and adjusted.
2.7 ELECTRICAL
A. High-Efficiency DC Motor: Maximum of 3 amp current draw, allowing 5 operators to run on one 20 Amp circuit.
B. Power: Self-detecting line voltage capable control. 120 VAC through 240 VAC, 50/60 Hz, 3 amp minimum incoming power with solid earth ground connection for each door system.
C. Wiring: Separate internal channel raceway free from moving parts.
D. Brown out / high voltage capability: System has capability to operate at full performance well beyond brown out and high voltage line conditions (85 V – 265 V) sensing changes and adjusting automatically.
2.8 ALUMINUM FINISHES
A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
B. Anodized Finish:
1. AAMA 611, Clear, AA- M12C22A41, Class I, 0.018 mm.
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, wall and floor construction, and other conditions affecting performance.
B. Examine roughing-in for electrical source power to verify actual locations of wiring connections.
C. Proceed only after such discrepancies or conflicts have been resolved.
3.2 INSTALLATION
A. Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure non-movement joints.
B. Entrances: Install automatic entrances plumb and true in alignment with established lines and grades without warp or rack of framing members and doors. Anchor securely in place.
1. Install surface mounted hardware using concealed fasteners to greatest extent possible.
2. Set headers, carrier assemblies, tracks, operating brackets and guides level and true to location with anchorage for permanent support.
C. Door Operators: Connect door operators to electrical power distribution system as specified in Division 26 Sections.
D. Glazing: Glaze sliding automatic entrance door panels in accordance with the Glass Association of North America (GANA) Glazing Manual, published recommendations of glass product manufacturer, and published instructions of automatic entrance system manufacturer.
E. Sealants: Comply with requirements specified in division 7 Section "Joint Sealants" to provide a weather tight installation.
1. Set thresholds, bottom guide and track systems and framing members in full bed of sealant.
2. Seal perimeter of framing members with sealant.
F. Signage: Apply signage on both sides of each door and sidelite as required by ANSI/BHMA A156.10 and manufacturers installation instructions.
3.3 ADJUSTING
A. Adjust door operators, controls and hardware for smooth and safe operation and for weather tight closure. Adjust doors in compliance with ANSI/BHMA A156.10.
B. Verify installation and alignment of all entrance weather-stripping as required for compliance with specified air infiltration requirements.
3.4 FIELD QUALITY CONTROL
A. Before placing doors into operation, AAADM certified technician shall inspect and approve doors for compliance with ANSI/BHMA A156.10. Certified technician shall be approved by the manufacturer.
3.5 CLEANING AND PROTECTION
A. Clean adjacent surfaces soiled by door installation.
B. Clean glass and metal surfaces promptly after installation. Remove excess sealants, compounds, dirt and other substances. Repair damages to match original finish.
3.6 DEMONSTRATION
A. Engage a factory-authorized representative to train Owner's maintenance personnel to adjust, operate, and maintain safe operation of the door.

REFLECTED CEILING PLAN NOTES

1. THE GENERAL NOTES HEREIN ADDRESS ARCHITECTURAL DESIGN INTENT FOR ALL BUILDING SYSTEM COMPONENTS INSTALLED ABOVE THE FLOOR AND WITHIN THE CEILING AREAS, INCLUDING MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. NOTIFY ARCHITECT OF ANY VARIATIONS BETWEEN THE NOTES HEREIN AND DRAWINGS, DETAILS, OR SPECIFICATIONS PRIOR TO PURCHASING MATERIALS OR COMMENCEMENT OF SYSTEM INSTALLATION.

ACCESSIBILITY NOTES

1. 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.
2. MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS ARE PROHIBITED. 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.
3. 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.
4. HAND ACTIVATED DOOR HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR.
5. EXIT DOORS SHALL OPEN TO A CLEAR WIDTH OF NOT LESS THAN 32".
6. WHERE A PAIR OF DOORS IS PROVIDED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF 32".
7. 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".
8. 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.
9. 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.
10. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.
11. 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 WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARD.
12. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 15 LBS FOR EXTERIOR DOORS AND 5 LBS FOR INTERIOR DOORS.
13. CIRCULATION AISLES AND PEDESTRIAN WAYS SHALL BE SIZED ACCORDING TO FUNCTIONAL REQUIREMENTS BUT SHALL NOT BE LESS THAN 36" IN CLEAR WIDTH.
14. 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.
15. 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.
16. 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.
17. FREE STANDING OBJECTS MOUNTED ON POSTS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE FINISHED FLOOR.
18. 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.
19. 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.
20. 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.
21. 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.
22. THE MINIMUM CLEAR WIDTH FOR A SINGLE WHEELCHAIR PASSAGE SHALL BE 32" AT A POINT AND 36" CONTINUOUSLY.
23. THE MINIMUM CLEAR WIDTH FOR 2 WHEELCHAIRS TO PASS SHALL BE 60".
24. 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.
25. 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.
26. CONTRACTOR SHALL NOTIFY ARCHITECT SHOULD ANY OF THE ABOVE GENERAL NOTES BE IN CONFLICT WITH THE TEXAS ACCESSIBILITY STANDARDS.

ARCHITECTURAL SYSTEMS AND FINISHES

1. COLORS INDICATED ON THE MATERIALS AND FINISH KEY ARE CUSTOM COLORS TO MATCH THE COLOR INDICATED. COLORS FROM MANUFACTURER'S STANDARD CHARTS WILL NOT BE ACCEPTED UNLESS THOSE COLORS MATCH THE COLORS INDICATED. CONTRACTOR MAY USE 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.
3. 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.
4. MISCELLANEOUS STUD FRAMING FOR SOFFITS AND OTHER ARCHITECTURAL ELEMENTS ARE INDICATED FOR GENERAL DESIGN INTENT AND PROFILE ONLY. CONTRACTOR SHALL PROVIDE ADDITIONAL BRACING AND FRAMING AS NECESSARY TO MEET THE DESIGN AND DEFLECTION CRITERIA.
5. INTERIOR WALL, SOFFIT, AND CEILING FRAMING SHALL MEET A MINIMUM OF 5 PSF WIND LOAD AND L/240 DEFLECTION DESIGN CRITERIA. INTERIOR ELEVATOR OR MECHANICAL SHAFT FRAMING SHALL MEET A MINIMUM OF 10 PSF WIND LOAD AND L/240 DEFLECTION DESIGN CRITERIA. EXTERIOR OR STRUCTURAL FRAMING SHALL MEET SPECIFIC DESIGN CRITERIA SPECIFIED ELSEWHERE IN THE DOCUMENTS.
6. SEALANT JOINTS DESIGNED AS REVEALS ARE INDICATED GRAPHICALLY AS RECESSED, AND MAY ALSO BE NOTED AS "RECESSED". MAINTAIN A CONSISTENT BACK OF REVEAL DEPTH.

EXTERIOR ENCLOSURE GENERAL NOTES

1. IN ADDITION TO THE INTENT OF THE WORK INDICATED ON THE DRAWINGS, ALL EXTERIOR ENCLOSURE WORK SHALL COMPLY WITH THE SPECIFIC TECHNICAL REQUIREMENTS OF THE PROJECT SPECIFICATION AND THE FOLLOWING CRITERIA.
2. THE EXTERIOR ENCLOSURE SYSTEM INCLUDES, BUT IS NOT LIMITED TO, PLASTER, BUILDING CLADDING SYSTEMS, WEATHER BARRIERS AND MEMBRANES, MOISTURE AND VAPOR BARRIERS, METAL FABRICATIONS, COLD FORMED METAL STUD FRAMING, BUILDING INSULATION, FLASHING AND SHEET METAL, GLAZING SYSTEMS, AND ANY OTHER MATERIAL, COMPONENT, FINISH, OR SUPPORT SYSTEM FOR THE BUILDING SKIN, INTENDED TO PROTECT THE BUILDING FROM THE EXTERIOR ENVIRONMENT.
3. THE PROFILES, SHAPES, RELATIONSHIPS, CONNECTIONS, DETAILS, AND MATERIALS INDICATED ARE A SCHEMATIC REPRESENTATION OF THE DESIGN AND TECHNICAL INTENT. THE CONCEPT INDICATED IS TO BE DEVELOPED, ENGINEERED, AND DETAILED BY THE CONTRACTOR AS REQUIRED TO PROVIDE A HIGH-QUALITY WATER TIGHT, AIR TIGHT, AND THERMALLY RESISTANT EXTERIOR ENCLOSURE SYSTEM COMPLYING WITH ALL INDICATED DESIGN AND TECHNICAL INTENT CRITERIA. PROVIDE ALL REQUIRED DESIGN, ENGINEERING, TESTING, MATERIALS, FASTENERS, ANCHORS, BRACING, SUPPORTS, WEEP SYSTEMS, FLASHINGS, SEALANTS, FABRICATION, ERECTION, ETC. REQUIRED TO FABRICATE AND INSTALL A HIGH QUALITY EXTERIOR ENCLOSURE.
4. THE EXTERIOR ENCLOSURE SYSTEM DESIGN AND INSTALLATION SHALL ACCOMMODATE THE FOLLOWING:
a. BUILDING MOVEMENT DUE TO GRAVITY LOADS, DEFLECTION AND VIBRATION:
b. BUILDING LOADS DUE TO WIND LOADS, DEFLECTION AND VIBRATION;
c. BUILDING MOVEMENT AND LOADING OF RAIN AND SNOW;
d. RECOGNIZED SEISMIC FORCES;
e. THERMAL EXPANSION AND CONTRACTION;
f. DIFFERENTIAL AIR PRESSURE;
g. DIFFERENTIAL VAPOR PRESSURE.
5. THE EXTERIOR ENCLOSURE SYSTEM DESIGN AND INSTALLATION SHALL PROVIDE THE REQUIRED RESISTIVITY TO THE FOLLOWING AND THEIR COMBINED EFFECTS:
a. WATER INFILTRATION;
b. DIFFERENTIAL AIR PRESSURE;
c. DIFFERENTIAL VAPOR PRESSURE;
d. THERMAL DIFFERENTIALS.
6. ALL EXTERIOR SOFFITS AND CEILING PLANES SHALL BE RIGIDLY FRAMED TO RESIST POSITIVE AND NEGATIVE WIND LOADS, IN ADDITION TO GRAVITY AND OTHER LOADS.
7. THE EXTERIOR WALL ASSEMBLY SHALL HAVE A MINIMUM THERMAL TRANSMISSION RESISTIVITY ("R") VALUE OF R19 IN VERTICAL WALLS, SOFFITS AND HORIZONTAL CEILINGS. PROVIDE CONTINUOUS INSULATION WITHIN THE VERTICAL AND HORIZONTAL EXTERIOR ENCLOSURE.
8. ANCHORAGE ASSEMBLIES ARE TO BE DESIGNED AS REQUIRED TO BE NOISELESS IN ACCOMMODATED DYNAMIC MOVEMENTS INCLUDING THERMAL CONTRACTION AND EXPANSION, WIND, AND SEISMIC DRIFT. ANCHORAGE ASSEMBLIES SHALL TRANSMIT EXTERIOR ENCLOSURE DEAD LOADS AND DYNAMIC LOADS TO THE BUILDING STRUCTURE.
9. PROVIDE SUPPORT FRAMING AND/OR STEEL REQUIRED FOR THE ANCHORAGE AND SUPPORT OF EXTERIOR ENCLOSURE SYSTEMS AND COMPONENTS, INCLUDING STEEL NOT INDICATED ON THE STRUCTURAL DRAWINGS. PROVIDE ENGINEERING CALCULATIONS AND DETAILS FOR ALL PROPOSED MODIFICATIONS REQUIRED TO ANCHOR THE EXTERIOR ENCLOSURE SYSTEM(S).
10. ALL REQUIRED SEALANTS AND FILLERS ARE TO BE INSTALLED TO PROVIDE A COMPLETE WEATHER TIGHT SYSTEM WITH WEEPS AS REQUIRED TO DRAIN INTERNAL MOISTURE TO THE EXTERIOR. EXTERIOR SEALANTS ARE TO BE 20-YEAR WARRANTED OF APPROPRIATE MODULUS FOR ANTICIPATED MOVEMENT CONDITIONS.
11. PROVIDE POSITIVE DRAINAGE ON ALL SURFACES EXPOSED TO DIRECT OR INDIRECT WATER OR MOISTURE ACCUMULATION. SUCH SURFACES SHALL WEEP WATER OR MOISTURE TO THE EXTERIOR.

GENERAL NOTES

1. THE WORK PERFORMED UNDER THIS CONTRACT SHALL CONSIST OF FURNISHING ALL TOOLS, EQUIPMENT, MATERIALS, SUPPLIES, TRANSPORTATION, SERVICES, POWER AND WATER, ESSENTIAL COMMUNICATIONS, AND THE PERFORMANCE OF ALL LABOR, WORK, REQUIRED CALCULATIONS, TESTING, OR OPERATIONS REQUIRED FOR THE FULFILLMENT OF THE CONTRACT, IN STRICT ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND SCHEDULES, ALL OF WHICH ARE MADE A PART HEREOF, INCLUDING DETAIL SKETCHES AS MAY BE FURNISHED BY ARCHITECT OR ENGINEER FROM TIME TO TIME DURING CONSTRUCTION IN EXPLANATION OF THE PLANS. THE WORK SHALL BE COMPLETE AND ALL MATERIAL, SERVICES, 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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 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 PERMITS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF THE CONSTRUCTION ON THE SITE.
12. 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 NOT.
13. WHERE DISCREPANCIES EXIST BETWEEN DRAWINGS BY VARIOUS TRADES, THE CONTRACTOR SHALL CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
14. 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.
15. WHEN DISCREPANCIES EXIST WITHIN THE DRAWINGS, AND BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE COSTLIER CONDITION SHALL APPLY.
16. 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.
17. 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.

DEFERRED SUBMITTALS

1. THE FOLLOWING BUILDING SYSTEMS SHALL BE DESIGN/BUILD BY THE CONTRACTOR AND SHALL BE SUBMITTED FOR SEPARATE REVIEW TO THE AUTHORITIES HAVING JURISDICTION:
a. FIRE ALARM SYSTEM.
b. NON-STRUCTURAL MISCELLANEOUS STEEL FABRICATIONS.
c. CURTAINWALLS.

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No. PN257A | A.I.P. No.
C.O.H. No. | D.O.A No.

RDLR Architects
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Houston, TX 77003 www.rdlr.com

DESIGNER PROJECT No.: 1429.03
PROJECT STATUS: 100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	SD
	ISSUE FOR PERMIT	11/20/2020	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY: SD
DRAWN BY: KD
CHECKED BY: DO
ISSUE DATE: 02/03/2023
APPROVED BY: DO
APPROVAL DATE: 02/03/2023

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIEL E. ORTIZ 25004 STATE OF TEXAS
02/03/2023

SHEET NAME: GENERAL NOTES & SPECIFICATIONS
SHEET No. G-003 SCALE: As indicated
SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

TEXAS ACCESSIBLITY STANDARDS

302 FLOOR OR GROUND SURFACES

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

303 CHANGES IN LEVEL

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

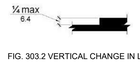


FIG. 303.2 VERTICAL CHANGE IN LEVEL

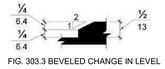


FIG. 303.3 BEVELED CHANGE IN LEVEL

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.

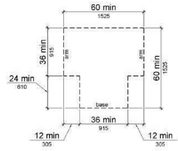


FIG. 304.3.2 T-SHAPED TURNING SPACE

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 PERMITTED.
305.3 SIZE. THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES (760 MM) MINIMUM BY 48 INCHES (1220 MM) MINIMUM

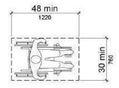


FIG. 305.3 CLEAR FLOOR OR GROUND SPACE

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

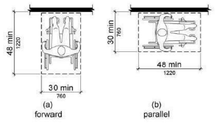


FIG. 305.5 POSITION OF CLEAR FLOOR OR GROUND SPACE

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

FIG. 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

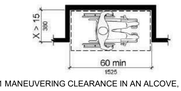


FIG. 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

307 PROTRUDING OBJECTS

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

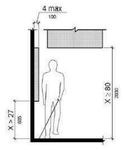


FIG. 307.2 LIMITS OF PROTRUDING OBJECTS

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) MINIMUM.
403.5.2 CLEAR WIDTH AT TURN. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES (1220 MM) WIDE, CLEAR WIDTH SHALL BE 42 INCHES (1065 MM) MINIMUM APPROACHING THE TURN, 48 INCHES (1220 MM) MINIMUM AT THE TURN AND 42 INCHES (1065 MM) MINIMUM LEAVING THE TURN.
403.5.3 PASSING SPACES. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES (1525 MM) SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET (61 M) MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES (1525 MM) MINIMUM BY 60 INCHES (1525 MM) MINIMUM; OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE COMPLYING WITH 304.3.2 WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48 INCHES (1220 MM) MINIMUM BEYOND THE INTERSECTION.
403.6 HANDRAILS. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH RUNNING SLOPES NOT STEEPER THAN 1:20 THEY SHALL COMPLY WITH 505.

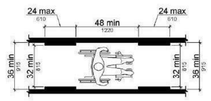


FIG. 403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE

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 DOOR OR GATE.
- **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 COMPLY WITH 302 AND 303.
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.
- **404.2.8.1 DOOR CLOSERS AND GATE CLOSERS.** DOOR CLOSERS AND GATE CLOSERS 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:
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 404.2.4.
404.3.3 THRESHOLDS. THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 404.2.5.
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 MODE.
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

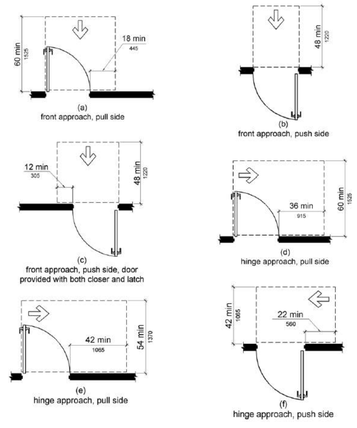
Type of Use		Minimum Maneuvering Clearance	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch side unless noted)
From front	Pull	60 inches (1525 mm)	18 inches (455 mm)
From front	Push	48 inches (1220 mm)	0 inches (0 mm)[3]
From hinge side	Pull	60 inches (1525 mm)	36 inches (915 mm)
From hinge side	Pull	54 inches (1370 mm)	42 inches (1065 mm)
From hinge side	Push	42 inches (1065 mm)[2]	22 inches (560 mm)[3]
From latch side	Pull	48 inches (1220 mm)[4]	24 inches (610 mm)
From latch side	Push	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.
3. Beyond hinge side.
4. Add 6 inches (150 mm) if closer is provided.

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

	Minimum Maneuvering Clearance	
Approach Direction	Perpendicular to Doorway	Parallel to Doorway (beyond stop/latch side unless noted)
From Front	48 inches (1220 mm)	0 inches (0 mm)
From side[1]	42 inches (1065 mm)	0 inches (0 mm)
From pocket/hinge side	42 inches (1065 mm)	22 inches (560 mm)[2]
From stop/latch side	42 inches (1065 mm)	24 inches (610 mm)

1. Doorway with no door only.
2. Beyond pocket/hinge side.



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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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

DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	ISSUE FOR PERMIT	11/20/2020	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
ISSUE DATE:	02/03/2023
APPROVED BY:	Approver
APPROVAL DATE:	02/03/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIELE ORTH 25004 STATE OF TEXAS
02/03/2023

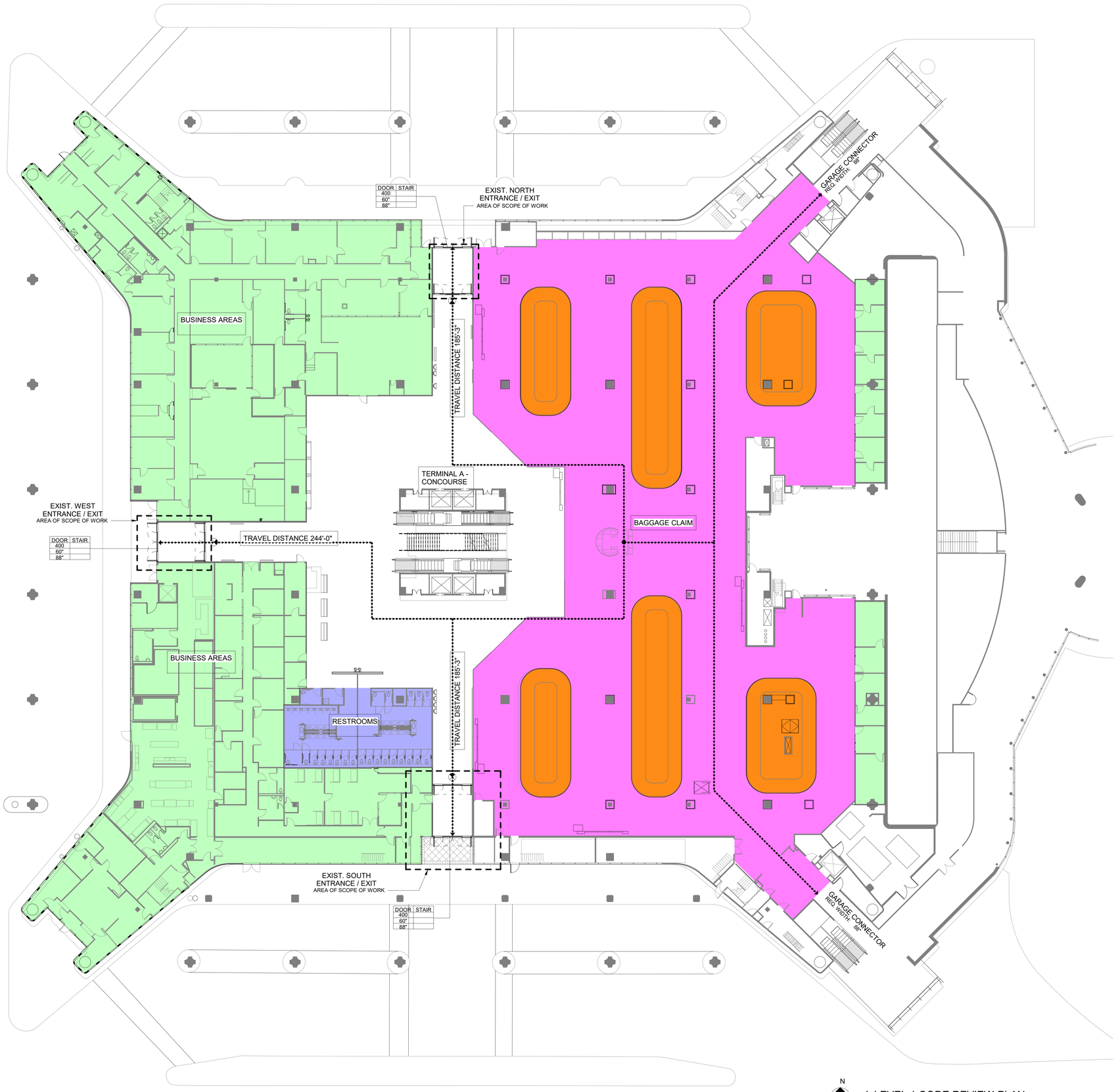
SHEET NAME: TEXAS ACCESSIBILITY STANDARDS

SHEET No. G-004 **SCALE:** 12" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

Aconex File Name:



1 LEVEL 1 CODE REVIEW PLAN
SCALE: 1/16" = 1'-0"

APPLICABLE BUILDING CODES

2012 INTERNATIONAL BUILDING CODE WITH CITY OF HOUSTON AMENDMENTS
2012 INTERNATIONAL FIRE CODE WITH CITY OF HOUSTON AMENDMENTS
2012 UNIFORM MECHANICAL CODE WITH CITY OF HOUSTON AMENDMENTS
2012 UNIFORM PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
CITY OF HOUSTON AMENDMENTS
STATE OF TEXAS ACCESSIBILITY STANDARDS

ARCHITECTURAL BARRIERS PROJECT REGISTRATION:

BUILDING CODE SUMMARY

OCCUPANCY CLASSIFICATION

GROUP A-3: WAITING AREAS IN TRANSPORTATION TERMINALS

GROUP B: BUSINESS

CONSTRUCTION TYPE

TYPE IB

ALLOWABLE HEIGHT & BUILDING AREA - CONSTRUCTION TYPE I-B

TABLE 503	ALLOWABLE HEIGHT	UNLIMITED
	ALLOWABLE AREA	UNLIMITED
	HEIGHT MODIFICATIONS	NONE REQUIRED

SQUARE FOOTAGE

LEVEL 1 CENTRAL TERMINAL- 74,265 SF (TUG TUNNEL EXCLUDED)
INCLUDES 31,435 SF OF BAGGAGE CLAIM

OCCUPANT LOAD

AIRPORT TERMINAL	CONCOURSE	100 GSF/OCCUPANT
	BAGGAGE CLAIM	20 GSF/OCCUPANT
BUSINESS	BUSINESS AREAS	100 GSF/OCCUPANT

TOTAL NUMBER OF OCCUPANTS
BUSINESS/CONCOURSE 428 OCCUPANTS
BAGGAGE CLAIM 1571 OCCUPANTS
TOTAL: 1999 OCCUPANTS

EXIT ACCESS

TABLE 1016.2 EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY B WITH SPRINKLER - 300'
OCCUPANCY A WITH SPRINKLER - 250'

MEANS OF EGRESS

TABLE 1005.1 EGRESS WIDTH PER OCCUPANT SERVED

STAIRWAYS 0.2	OTHER COMPONENTS 0.15 / OCCUPANT X 1999 = 300"
EGRESS WIDTH REQUIRED AT NORTH, SOUTH & WEST ENTRANCE / EXIT	60"
EGRESS TOTAL WIDTH PROVIDED AT NORTH, SOUTH & WEST ENTRANCE / EXIT	88"

THE FOLLOWING SYMBOLS INDICATE NUMBERS OF GIVEN OCCUPANTS IN A GIVEN ROOM OR AREA:

DOOR | STAIR
XX | XX — OCCUPANT LOAD
XX | XX — REQUIRED EXIT WIDTH
XX | XX — PROVIDED EXIT WIDTH

ROOM NAME — ROOM NUMBER
101 E-2 — OCCUPANCY LOAD FACTOR
XXXX SF — ROOM AREA AND OCCUPANCY TYPE
FLOOR FINISH

TRAVEL PATH

XX' — TOTAL TRAVEL DISTANCE TO EXIT FROM START OF EGRESS

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

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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Houston, TX 77003 www.rdlr.com

DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	SD
	ISSUE FOR PERMIT	11/20/2020	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	SD
CHECKED BY:	DO
ISSUE DATE:	02/03/2023
APPROVED BY:	DO
APPROVAL DATE:	02/03/2023

DIRECTOR
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Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT — DANIEL E. ORTIZ — 23004 — STATE OF TEXAS
02/03/2023

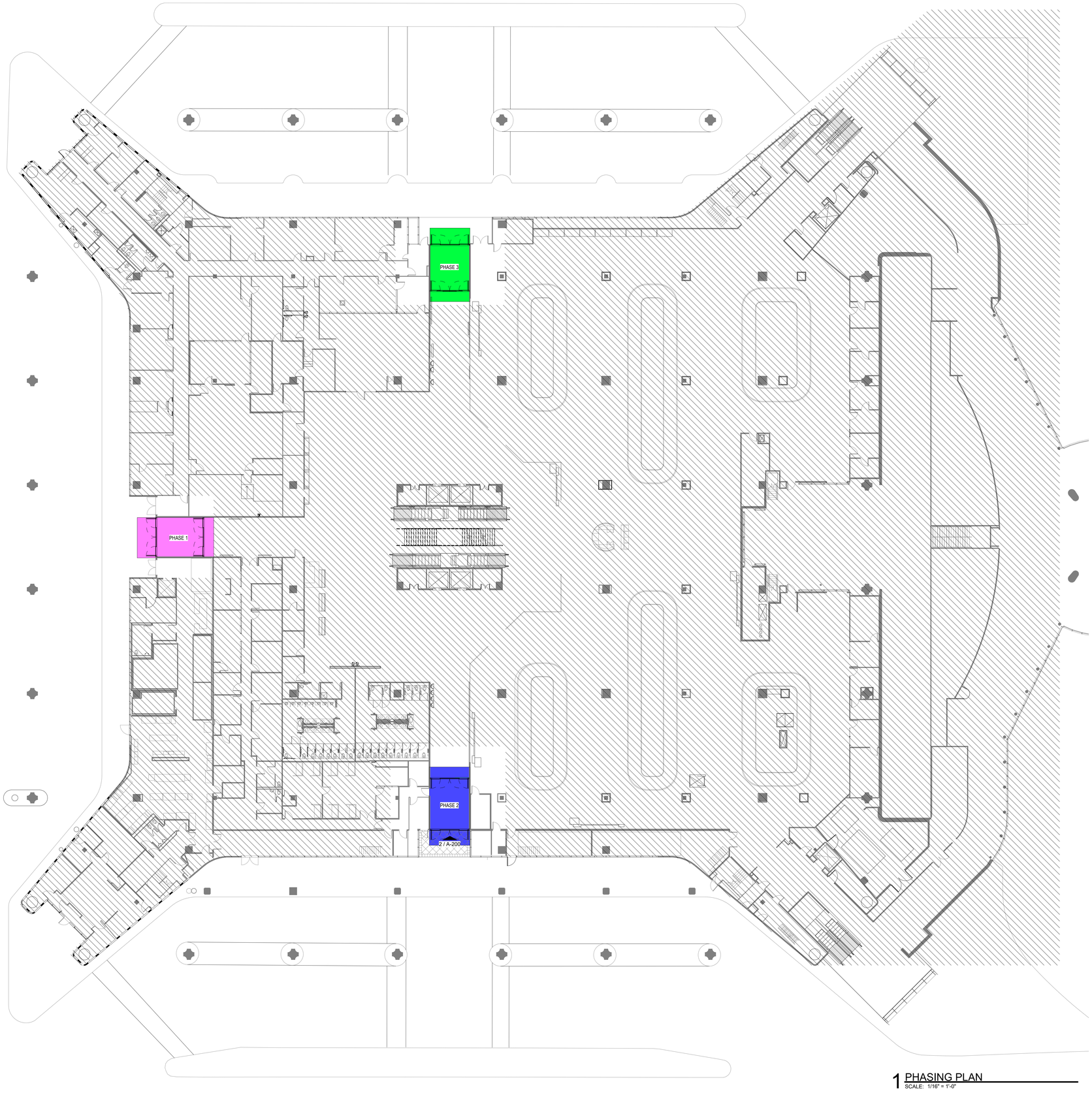
SHEET NAME: LIFE SAFETY LEVEL 1 PLAN AND CODE REVIEW

SHEET No. G-031 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

Aconex File Name:



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

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

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DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	SD
	ISSUE FOR PERMIT	11/20/2020	SD
	REVISION #1	10/26/2021	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	KD
CHECKED BY:	SD
ISSUE DATE:	02/03/2023
APPROVED BY:	DO
APPROVAL DATE:	02/03/2023

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Review/ Approval Category
IFC
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REGISTERED ARCHITECT DANIEL E. ORTE 25004 STATE OF TEXAS
02/03/2023

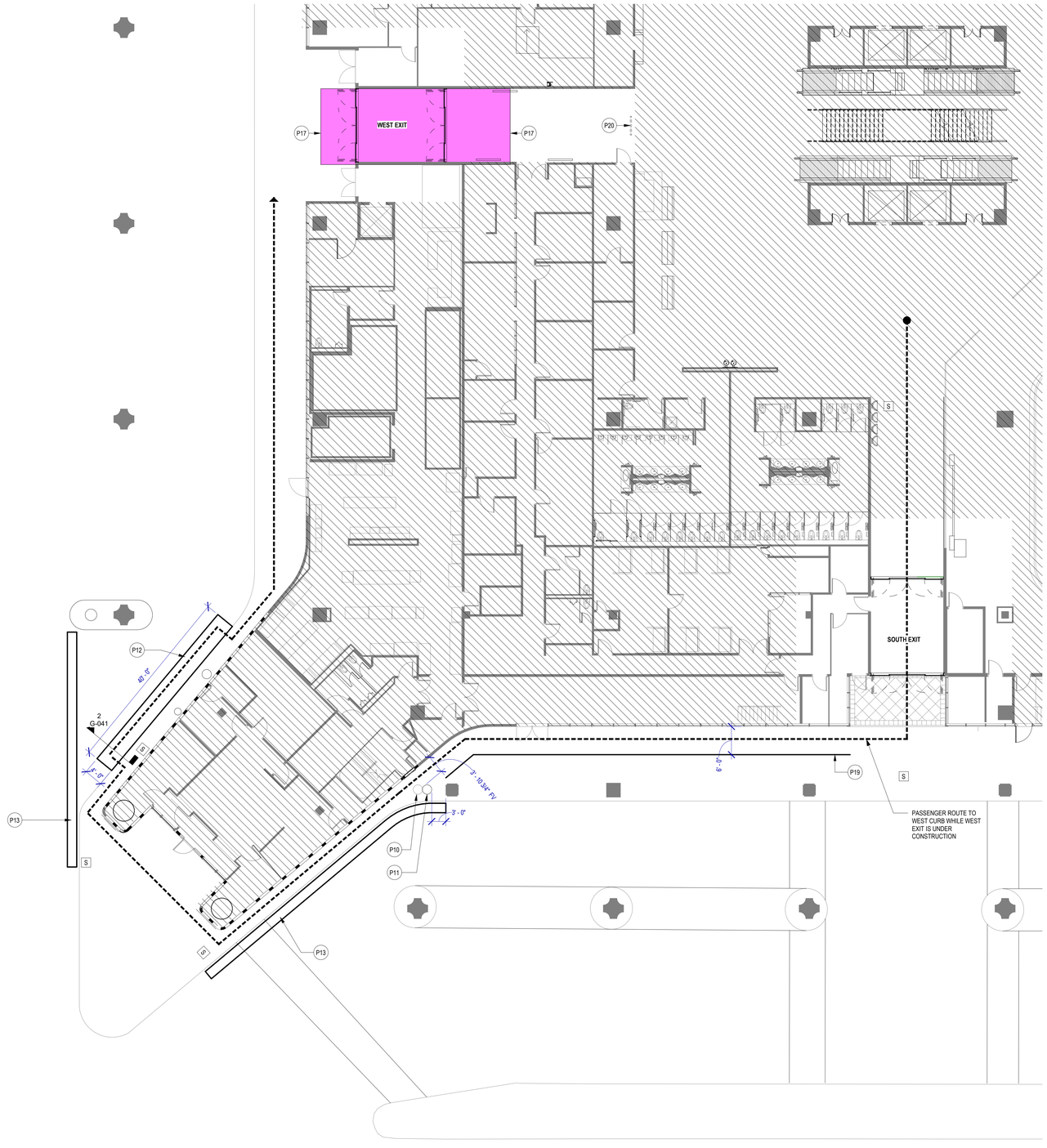
SHEET NAME: CONSTRUCTION PHASING PLAN

SHEET No. G-040 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

Aconex File Name:



1 PHASING PLAN-PHASE 1
SCALE: 3/32" = 1'-0"

GENERAL PHASING NOTES

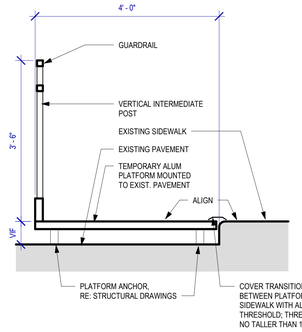
1. PROVIDE TEMPORARY SIGNAGE AT DUST WALL TO ROUTE PASSENGERS; ARTWORK PROVIDED BY HAS
2. PROVIDE EXTERIOR SIGNS MOUNTED ON STANCHIONS TO ROUTE PASSENGERS TO THE CURBSIDE OF THE CLOSED EXIT WHILE IN CONSTRUCTION
3. INFORMATION FOR SIGNAGE, INCLUDING SIZE, LOCATIONS, GRAPHICS, AND MESSAGING TO BE COORDINATED WITH HAS: INFRASTRUCTURE AND MARKETING
4. XRAY SCAN PAVEMENT PRIOR TO ANY DRILLING OR SHOOTING. PATCH AND REPAIR PAVEMENT AFTER REMOVAL OF PLATFORM.

KEYNOTE LEGEND

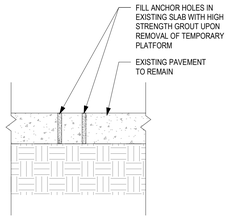
KEY VALUE	KEYNOTE TEXT
P10	EXISTING BOLLARD LOCATION. RELOCATE TO PROVIDE A MIN. CLEARANCE OF 3' AT THE SIDEWALK. REPAIR OR REPLACE CONCRETE PAVERS AS REQUIRED FOR PHASE 1 AND 2
P11	LOCATION FOR RELOCATED BOLLARD
P12	PROVIDE TEMPORARY PREFABRICATED ALUMINUM WALKWAY TO PROVIDE AN ADA ACCESSIBLE PATH DURING CONSTRUCTION. BASIS OF DESIGN: REDD TEAM OR EQUAL. ALUMINUM WALKWAY TO HAVE A SLIP RESISTANT DECK SURFACE. REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS. CONNECTION BETWEEN CURB AND PLATFORM TO MEET ADA CHANGES IN LEVEL REQUIREMENTS, RE: G-004
P13	42" TALL WATER FILLED TRAFFIC BARRIER. PROVIDE INFORMATIONAL TRAFFIC SIGNAGE
P17	PROVIDE 4'x 8' VINYL ADHESIVE SIGN FOR DUST WALL; ARTWORK WILL BE PROVIDED BY HAS
P19	PROVIDE TEMPORARY GALVANAIZED STEEL BARRICADE RAILS AT SIDEWALK TO DIRECT PEDESTRIANS TO CURBSIDE OF CLOSED EXIT
P20	COVER EXISTING WAYFINDING TO THE CURBSIDE. DO NOT DAMAGE EXISTING SIGN

LEGEND

S STANCHION SIGN SYMBOL



2 ALUM TEMP PLATFORM DETAIL
SCALE: 3/4" = 1'-0"



3 PAVEMENT PATCH DETAIL
SCALE: 1" = 1'-0"

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C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

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

DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	REVISION #1	10/26/2021	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	SD
CHECKED BY:	DO
ISSUE DATE:	02/03/2023
APPROVED BY:	DO
APPROVAL DATE:	02/03/2023

DIRECTOR
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Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIEL E. DIRT P5000 STATE OF TEXAS
02/03/2023

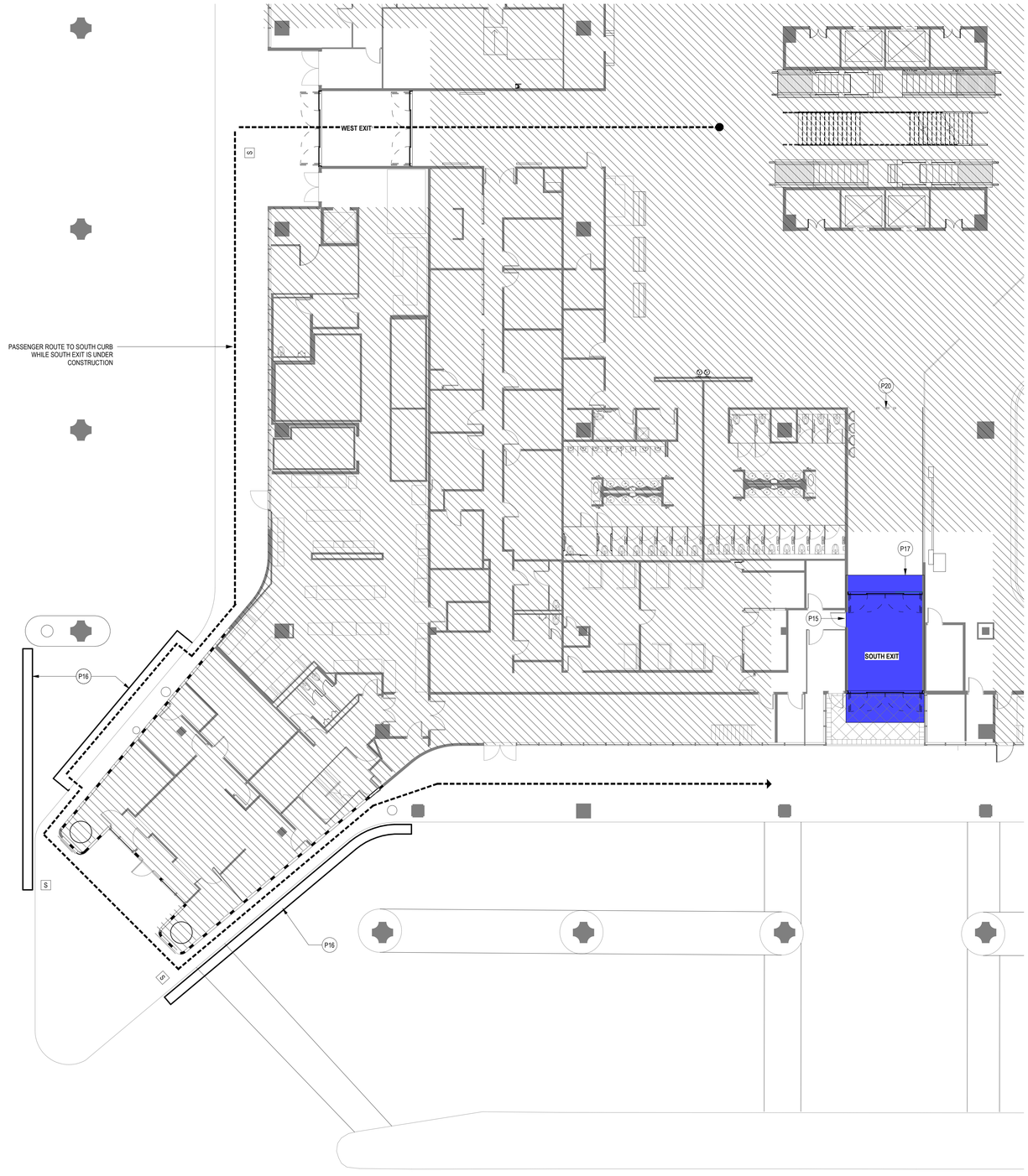
SHEET NAME: CONSTRUCTION PHASING PLAN - PHASE 1

SHEET No. G-041 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

Aconex File Name:



1 PHASING PLAN-PHASE 2
SCALE: 3/32" = 1'-0"

GENERAL PHASING NOTES

1. PROVIDE TEMPORARY SIGNAGE AT DUST WALL TO ROUTE PASSENGERS; ARTWORK PROVIDED BY HAS
2. PROVIDE EXTERIOR SIGNS MOUNTED ON STANCHIONS TO ROUTE PASSENGERS TO THE CURBSIDE OF THE CLOSED EXIT WHILE IN CONSTRUCTION
3. INFORMATION FOR SIGNAGE, INCLUDING SIZE, LOCATIONS, GRAPHICS, AND MESSAGING TO BE COORDINATED WITH HAS: INFRASTRUCTURE AND MARKETING
4. XRAY SCAN PAVEMENT PRIOR TO ANY DRILLING OR SHOOTING. PATCH AND REPAIR PAVEMENT AFTER REMOVAL OF PLATFORM.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P15	BLOCK DOOR ACCESS DURING CONSTRUCTION OF SOUTH EXIT
P16	TEMPORARY TRAFFIC BARRICADES & WALKWAY TO REMAIN IN PLACE DURING PHASE 2
P17	PROVIDE 4'x 8' VINYL ADHESIVE SIGN FOR DUST WALL; ARTWORK WILL BE PROVIDED BY HAS
P20	COVER EXISTING WAYFINDING TO THE CURBSIDE. DO NOT DAMAGE EXISTING SIGN

LEGEND

S STANCHION SIGN SYMBOL

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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Houston, TX 77003 www.rdlr.com

DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	REVISION #1	10/26/2021	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	SD
CHECKED BY:	DO
ISSUE DATE:	02/03/2023
APPROVED BY:	DO
APPROVAL DATE:	02/03/2023

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIEL E. ORTIZ 29004 STATE OF TEXAS
02/03/2023

SHEET NAME: CONSTRUCTION PHASING PLAN - PHASE 2

SHEET No. G-042 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

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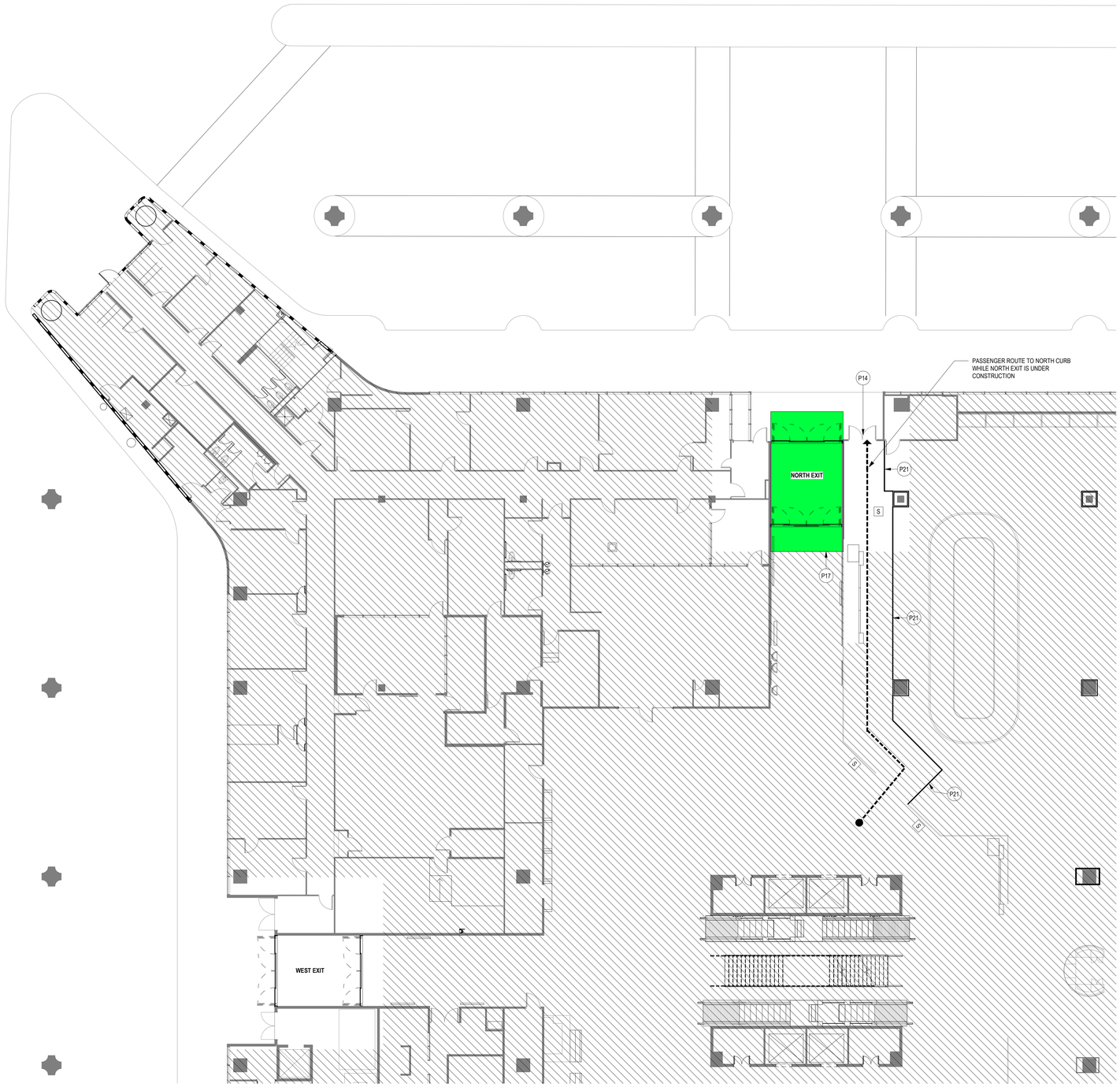

1 PHASING PLAN-PHASE 3
SCALE: 3/32" = 1'-0"

GENERAL PHASING NOTES

1. PROVIDE TEMPORARY SIGNAGE AT DUST WALL TO ROUTE PASSENGERS; ARTWORK PROVIDED BY HAS
2. PROVIDE EXTERIOR SIGNS MOUNTED ON STANCHIONS TO ROUTE PASSENGERS TO THE CURBSIDE OF THE CLOSED EXIT WHILE IN CONSTRUCTION
3. INFORMATION FOR SIGNAGE, INCLUDING SIZE, LOCATIONS, GRAPHICS, AND MESSAGING TO BE COORDINATED WITH HAS; INFRASTRUCTURE AND MARKETING
4. XRAY SCAN PAVEMENT PRIOR TO ANY DRILLING OR SHOOTING. PATCH AND REPAIR PAVEMENT AFTER REMOVAL OF PLATFORM.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P14	REMOVE ASTRAGAL AT DOUBLE DOORS WHILE THE NORTH EXIT IS UNDER CONSTRUTION, REINSTALL AFTER COMPLETION. PROVIDE TEMPORARY MODIFICATION OF DOOR THRESHOLD AS REQUIRED FOR SMOOTHER PASSAGE OF BAGGAGE AND WHEELCHAIRS
P17	PROVIDE 4'x 8' VINYL ADHESIVE SIGN FOR DUST WALL; ARTWORK WILL BE PROVIDED BY HAS
P21	PROVIDE TEMPORARY BARRIER TO DIRECT PASSENGERS TO EXIT

LEGEND

S — STANCHION SIGN SYMBOL

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C.I.P. No. PN257A	A.I.P. No.
C.O.H. No.	D.O.A No.

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	REVISION #1	10/26/2021	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	SD
CHECKED BY:	DO
ISSUE DATE:	02/03/2023
APPROVED BY:	DO
APPROVAL DATE:	02/03/2023

DIRECTOR
of
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Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

DANIEL E. ORTIZ — 25004 — STATE OF TEXAS — REGISTERED ARCHITECT
02/03/2023

SHEET NAME: CONSTRUCTION PHASING PLAN - PHASE 3

SHEET No.	SCALE:
G-043	As indicated

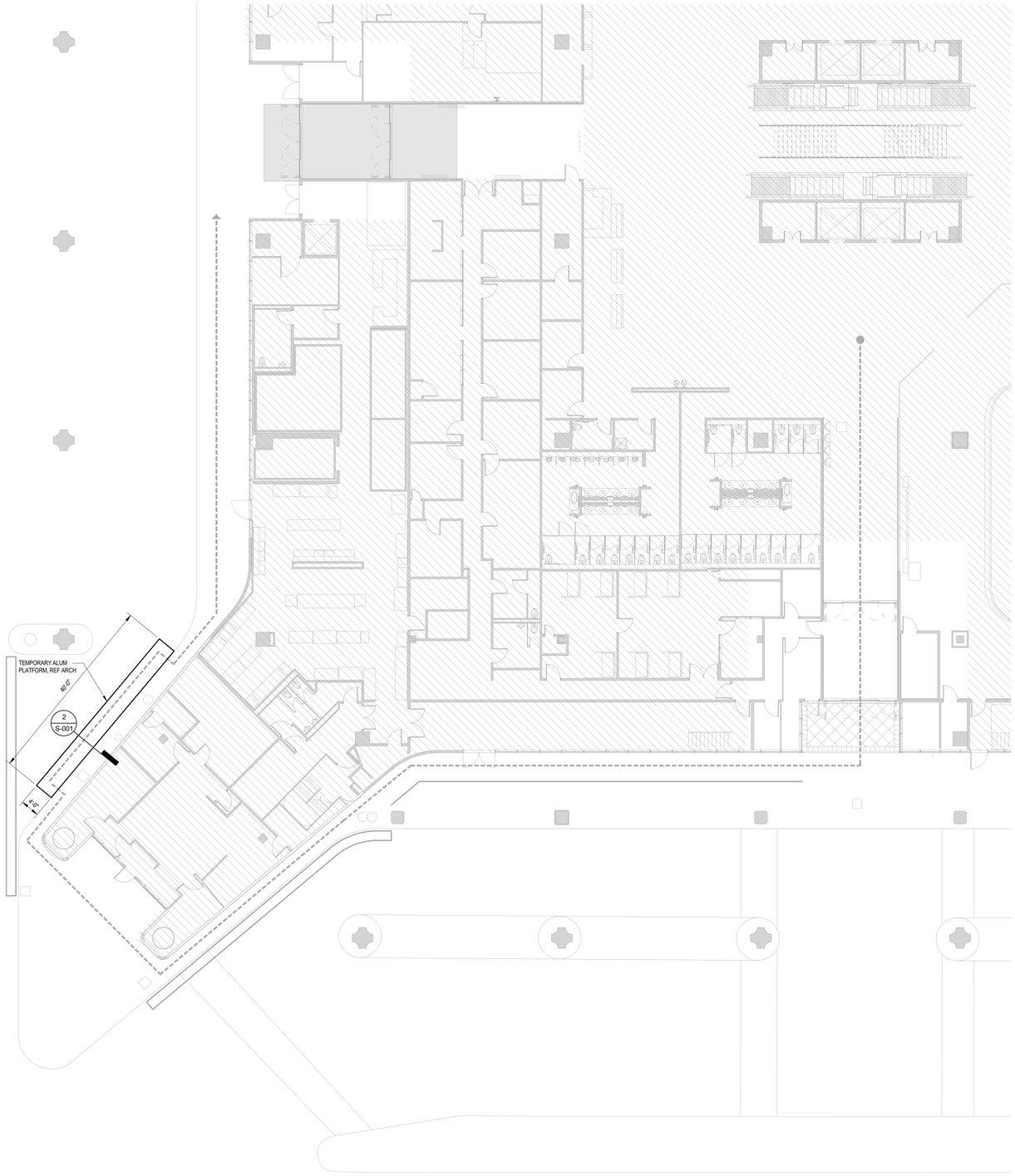
SHEET SIZE: 30"x42" ARCH E1

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

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt

HAS FILE:

Aconex File Name:



1 STRUCTURAL PLAN - ADA PLATFORM
SCALE: 3/32" = 1'-0"

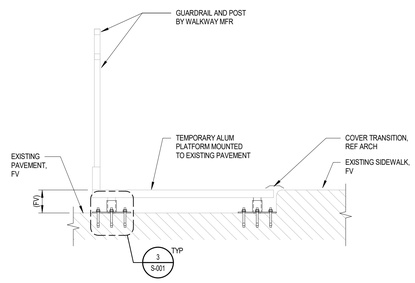
DESIGN CRITERIA

A. WALKWAY PLATFORM SHALL BE DESIGNED TO MEET REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2012 WITH CITY OF HOUSTON AMENDMENTS.

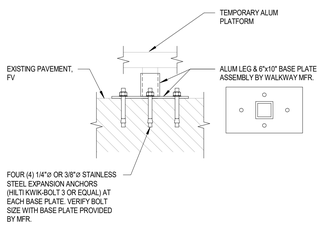
B. WALKWAY SHALL BE DESIGNED FOR A MINIMUM UNIFORM LIVE LOAD OF 100 PSF AND A CONCENTRATED LOAD OF 300 POUNDS DISTRIBUTED OVER AN AREA OF 1 SQUARE FOOT.

C. GUARDRAILS SHALL BE DESIGNED USING FOLLOWING LOADS. NOTE: THE LOADS DO NOT HAVE TO BE APPLIED SIMULTANEOUSLY, EXCEPT AS NOTED.

- A SINGLE CONCENTRATED LOAD OF 200 POUNDS APPLIED AT ANY POINT AND IN ANY DIRECTION AT THE TOP OF THE GUARDRAIL.
- A 50 PLF LOAD APPLIED HORIZONTALLY AT THE REQUIRED GUARDRAIL HEIGHT AND A SIMULTANEOUSLY APPLIED LOAD OF 100 PLF APPLIED VERTICALLY DOWNWARD AT THE TOP OF THE GUARDRAIL.
- A 200 POUND CONCENTRATED HORIZONTAL LOAD APPLIED OVER A 1 SF AREA AT ANY POINT IN THE SYSTEM.



2 PLATFORM SECTION
SCALE: 3/4" = 1'-0"



3 PLATFORM LEG ANCHOR DETAIL
SCALE: 1 1/2" = 1'-0"

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RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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

HENDERSON ROGERS
structural engineers
5599 San Felipe, Suite 1425
Houston, Texas 77056
713.430.5800
www.hendersonrogers.com

DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	REVISION #1	10/26/2021	HR
	ISSUE FOR CONSTRUCTION	02/03/2023	HR

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DRAWN BY:	HT
CHECKED BY:	ER
ISSUE DATE:	02/23/2022
APPROVED BY:	ER
APPROVAL DATE:	02/23/2022

DIRECTOR of HOUSTON AIRPORT SYSTEM

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IFC
ISSUED FOR CONSTRUCTION

Henderson Rogers Structural Engineers, LLC
TBPE Firm Registration No. 8755
STATE OF TEXAS
K. ELAINE ROGERS
65566
LICENSED PROFESSIONAL ENGINEER
02/ 03/ 2023

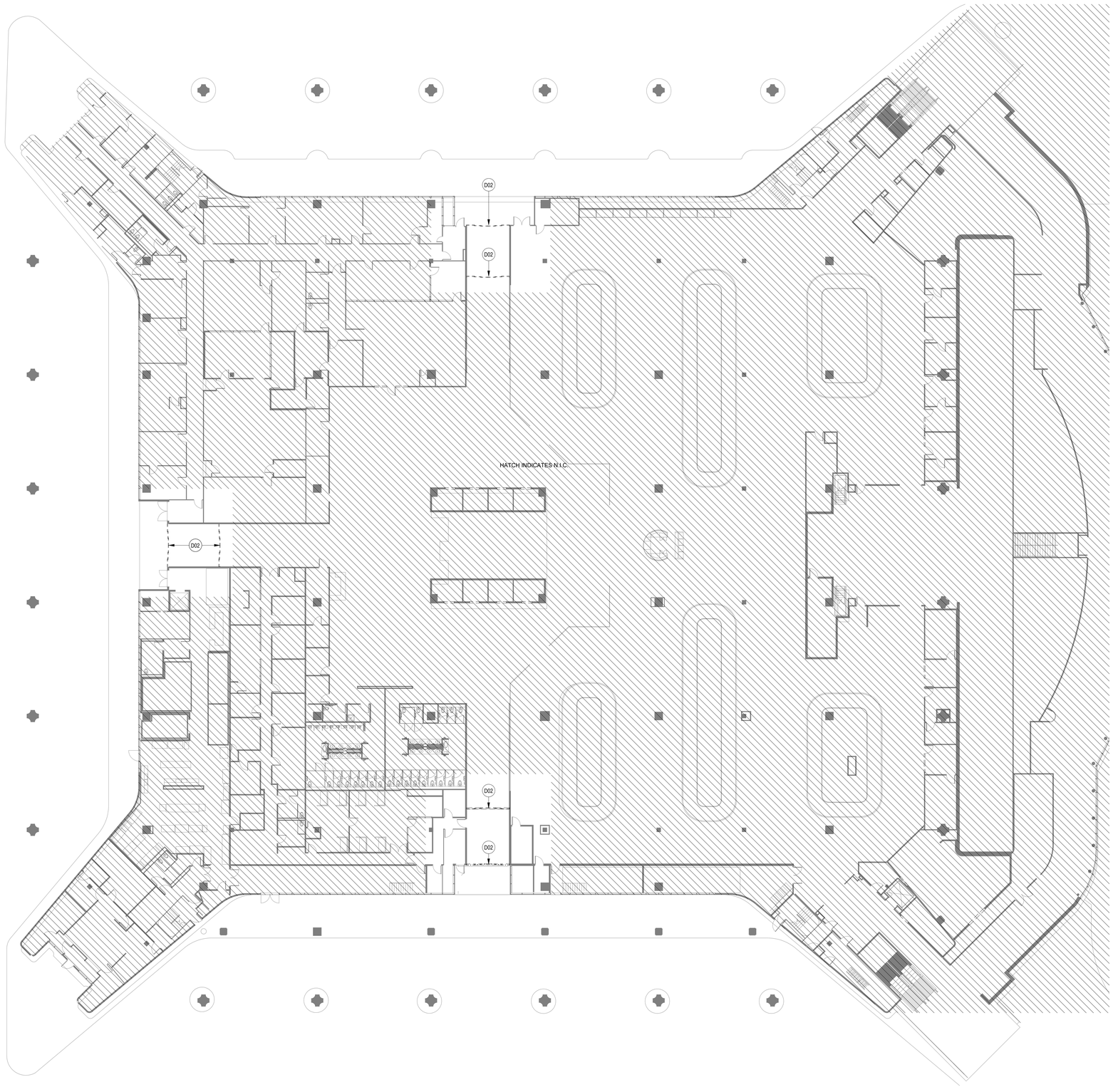
SHEET NAME: STRUCTURAL PLAN AND DETAILS - PHASE 1

SHEET No.	SCALE:
S-001	As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/220195_Terminal A Platform_R20.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

Aconex File Name: **I-19-C-925F** - S-001 -



1 LEVEL 1 - OVERALL DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES - DEMOLITION PLAN

1. PROTECT ALL EXISTING FLOORING, WALLS, CEILINGS, LIGHT FIXTURES & MECHANICAL DEVICES DURING DEMOLITION. REPAIR AND REPLACE ANY DAMAGES AS A RESULT OF WORK AT NO COST TO THE OWNER.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D02	DEMO SLIDING DOORS & TRACK

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C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104
Houston, TX 77003

713.868.3121
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DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

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	90% REVIEW	11/06/2020	SD
	ISSUE FOR PERMIT	11/20/2020	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	KD
CHECKED BY:	DO
ISSUE DATE:	02/03/2023
APPROVED BY:	DO
APPROVAL DATE:	02/03/2023

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIELE ORTH 25004 STATE OF TEXAS
02/03/2023

SHEET NAME: LEVEL 1 - OVERALL DEMOLITION PLAN

SHEET No. AD-100 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

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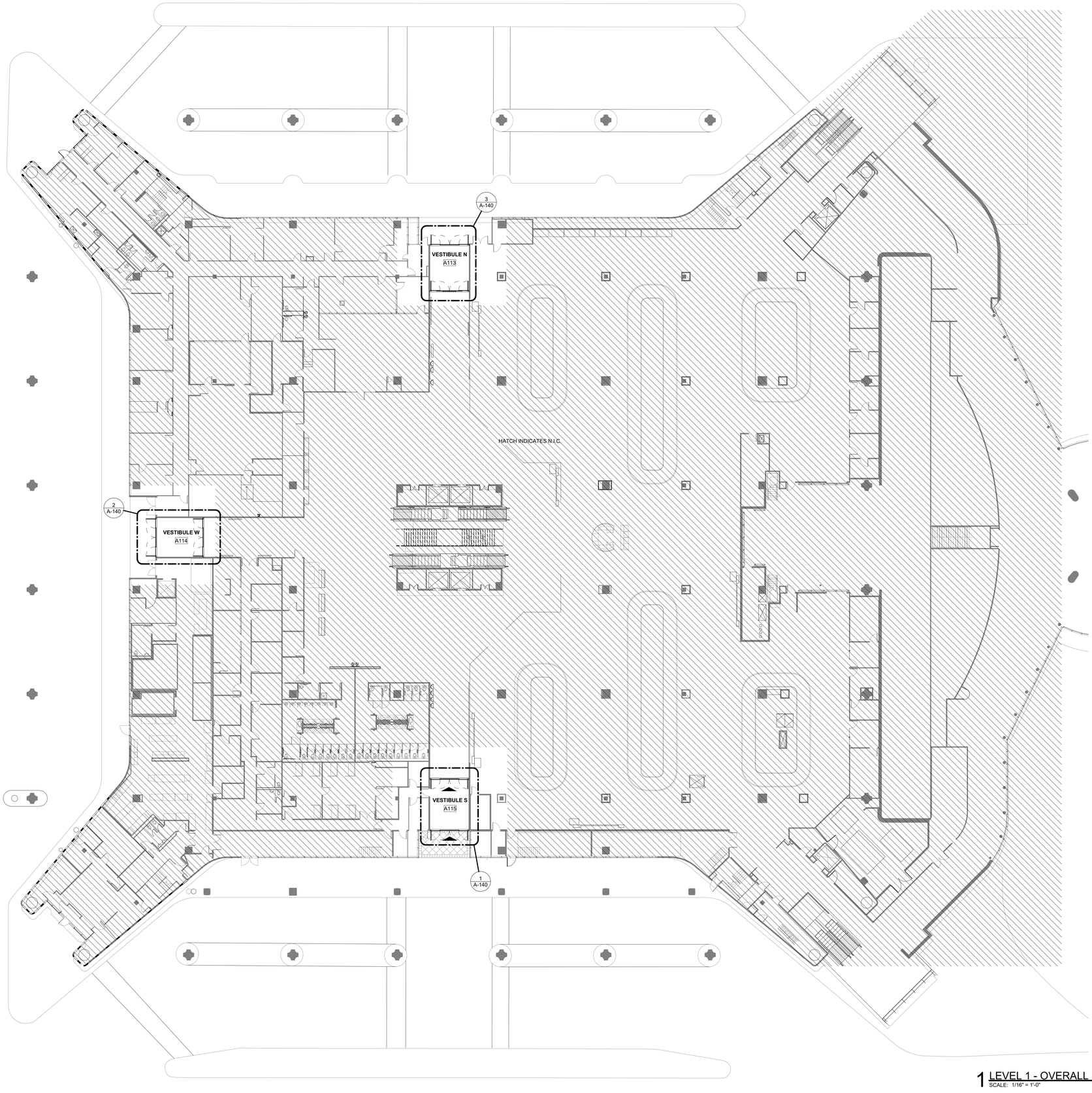

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET G-012 FOR KEY TO SYMBOLS LEGEND AND ABBREVIATIONS
2. REFER TO G-013 FOR GENERAL NOTES & TEXAS ACCESSIBLITY STANDARDS
3. 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.
4. CONTRACTOR TO VERIFY ALL OPENING MEASUREMENTS IN FIELD PRIOR TO INSTALLATION.

1 LEVEL 1 - OVERALL PLAN
SCALE: 1/16" = 1'-0"

N

0 8' 16' 32'
SCALE : 1/16" = 1'-0"

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES
ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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

DESIGNER PROJECT No.:	1429.03
PROJECT STATUS:	100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	SD
	ISSUE FOR PERMIT	11/20/2020	SD
	ISSUE FOR CONSTRUCTION	02/03/2023	SD

DESIGN BY:	SD
DRAWN BY:	KD
CHECKED BY:	DO
ISSUE DATE:	02/03/2023
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APPROVAL DATE:	02/03/2023

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Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIELLE ORTIZ P-9004 STATE OF TEXAS
02/03/2023

SHEET NAME: OVERALL FLOOR PLAN - LEVEL 1
SHEET No. A-110 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
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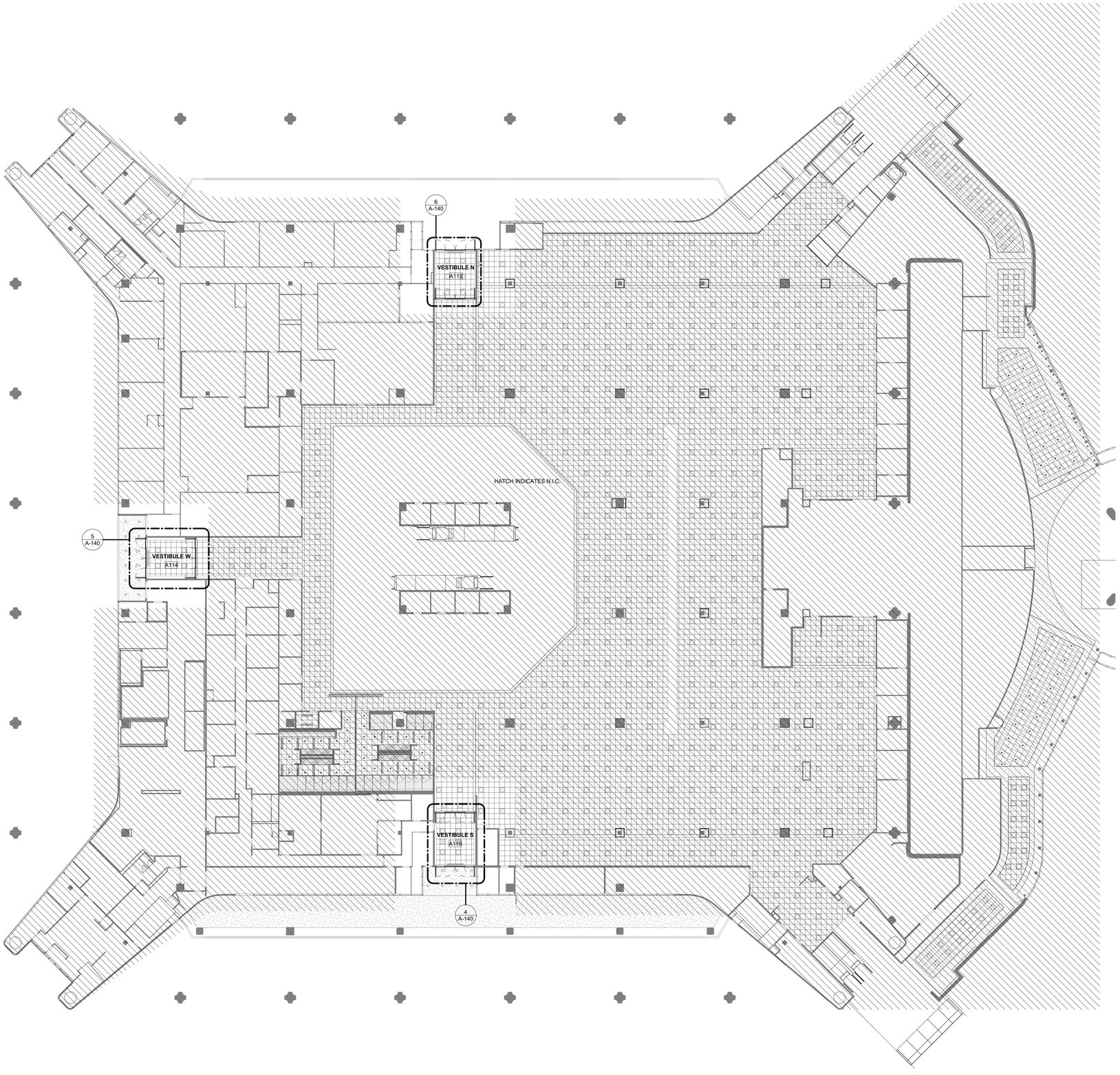
Aconex File Name:



RCP GENERAL NOTES

1. ALL LIGHT FIXTURES, CEILING TILE, AND MECHANICAL DEVICES TO REMAIN.

2. REPLACE MISSING AND DAMAGED CEILING TILE ADJACENT TO DOOR HEAD. MATCH EXISTING.

1 LEVEL 1 - OVERALL RCP - SOUTH
SCALE: 1/16" = 1'-0"

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

N

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

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REGISTERED ARCHITECT DANIELLE ORTIZ P5008 STATE OF TEXAS
02/03/2023

SHEET NAME: OVERALL REFLECTED CEILING PLAN - LEVEL 1

SHEET No. A-130 SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

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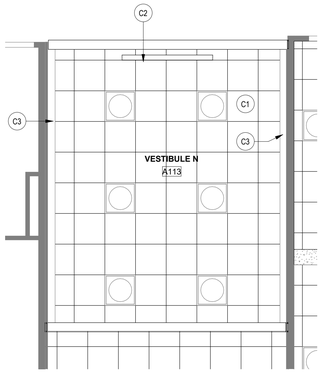
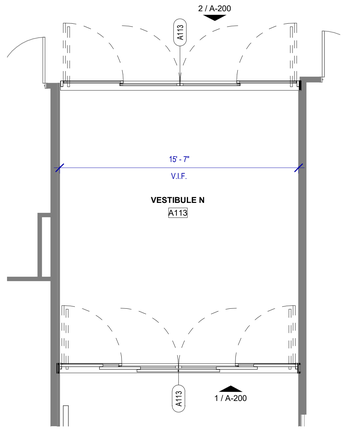
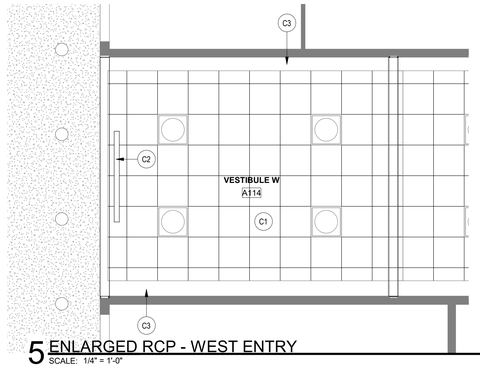


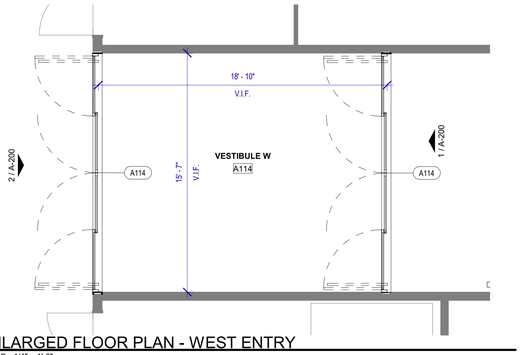
6 ENLARGED RCP - NORTH ENTRY
SCALE: 1/4" = 1'-0"



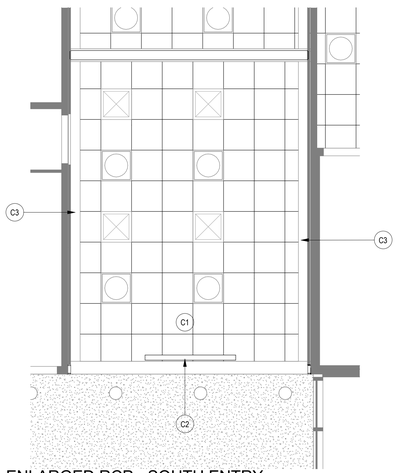
3 ENLARGED PLAN - NORTH ENTRANCE
SCALE: 1/4" = 1'-0"



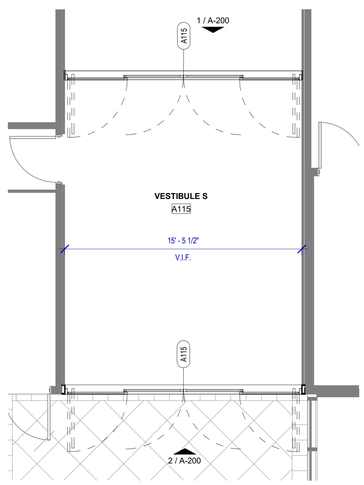
5 ENLARGED RCP - WEST ENTRY
SCALE: 1/4" = 1'-0"



2 ENLARGED FLOOR PLAN - WEST ENTRY
SCALE: 1/4" = 1'-0"



4 ENLARGED RCP - SOUTH ENTRY
SCALE: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN - SOUTH ENTRY
SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET G-012 FOR KEY TO SYMBOLS LEGEND AND ABBREVIATIONS
2. REFER TO G-013 FOR GENERAL NOTES & TEXAS ACCESSIBLITY STANDARDS
3. 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.
4. CONTRACTOR TO VERIFY ALL OPENING MEASUREMENTS IN FIELD PRIOR TO INSTALLATION.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
C1	EXISTING CEILING & FIXTURES TO REMAIN. REPLACE CEILING TILE WHERE MISSING TO MATCH EXISTING.
C2	PROTECT LINEAR DIFFUSER DURING CONSTRUCTION
C3	EXISTING LIGHT COVE TO REMAIN

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

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ARCHITECTURE PLANNING INTERIORS

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Houston, TX 77003 www.rdlr.com

DESIGNER PROJECT No.: 1429.03
PROJECT STATUS: 100% CD

REVISIONS

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	ISSUE FOR CONSTRUCTION	02/03/2023	SD

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DIRECTOR
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IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIEL E. ORTE 25004 STATE OF TEXAS
02/03/2023

N

SHEET NAME: ENLARGED PLANS & RCPS
SHEET No. A-140 SCALE: 1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
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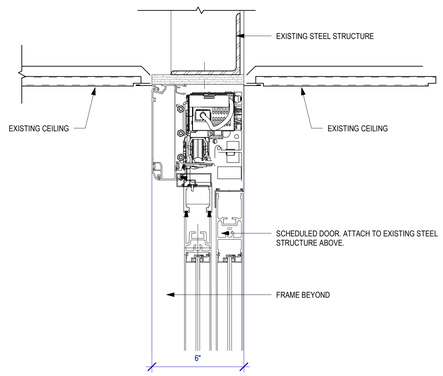
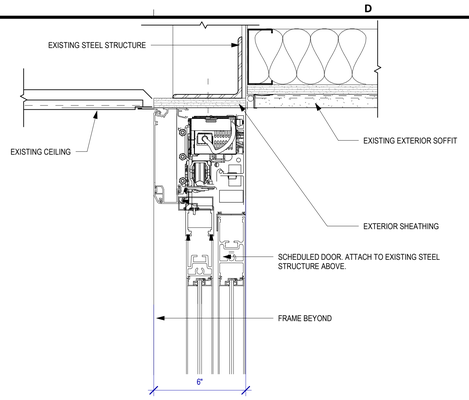
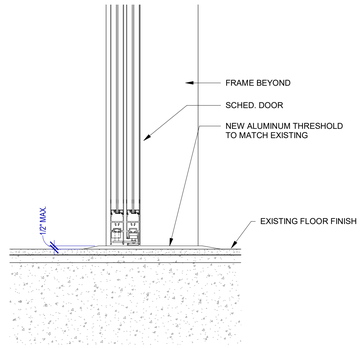


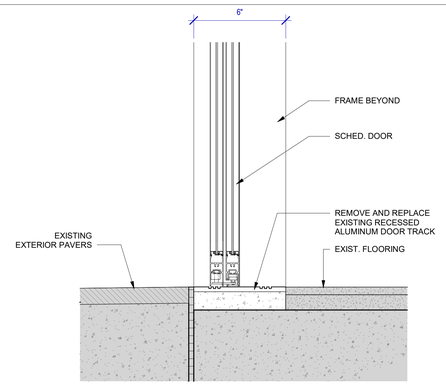
12 INTERIOR HEAD DETAIL @ DOOR
SCALE: 3" = 1'-0"



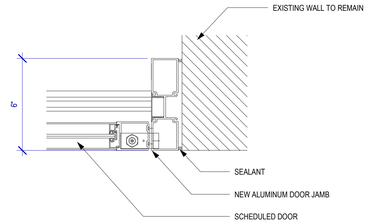
8 EXTERIOR HEAD DETAIL @ DOOR
SCALE: 3" = 1'-0"



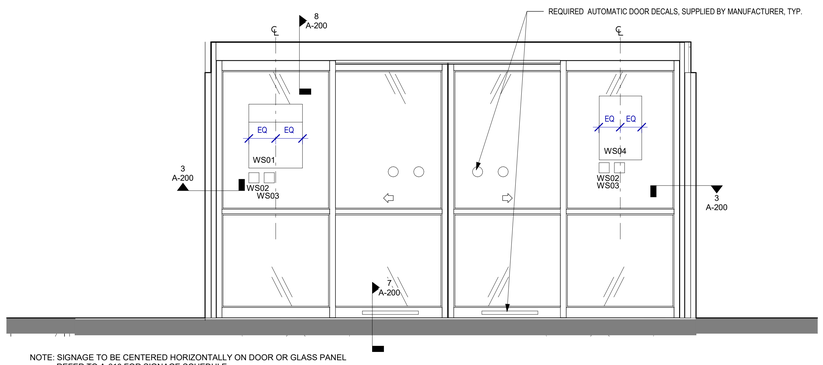
4 ALUM DOOR SILL AT INT
SCALE: 3" = 1'-0"



7 ALUM DOOR SILL AT EXT
SCALE: 3" = 1'-0"

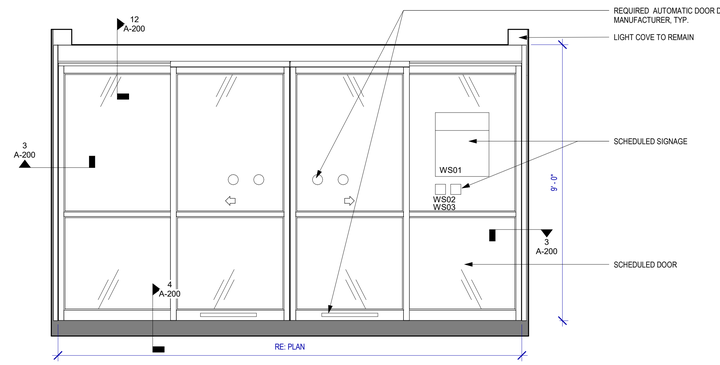


3 EXTERIOR JAMB DETAIL
SCALE: 3" = 1'-0"



NOTE: SIGNAGE TO BE CENTERED HORIZONTALLY ON DOOR OR GLASS PANEL
REFER TO A-610 FOR SIGNAGE SCHEDULE

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



NOTE: SIGNAGE TO BE CENTERED HORIZONTALLY ON DOOR OR GLASS PANEL, UNO
REFER TO A-610 FOR SIGNAGE SCHEDULE

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

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

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Houston, TX 77003 www.rdlr.com

DESIGNER PROJECT No.: 1429.03
PROJECT STATUS: 100% CD

REVISIONS

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APPROVAL DATE:	02/03/2023

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT
DANIEL E. ORTIZ
23004
STATE OF TEXAS
02/03/2023

SHEET NAME: ELEVATIONS & DETAILS
SHEET No. A-200
SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

Aconex File Name:

MATERIALS & FINISH KEY

GENERAL NOTE - MATERIALS & FINISHES ARE INTENDED TO MATCH EXISTING

ACOUSTICAL TILE CEILINGS

ACT1 24"x24" ACOUSTICAL PANEL, USG RADAR CLIMAPLUS, WHITE, TEGULAR EDGE (MATCH TO EXISTING CEILING PANELS) SUSPENSION GRID: MATCH USG CENTRICITEE, WHITE (MATCH TO EXISTING CEILING GRID)

GLAZING

GL1 1/2" STRENGTHENED SAFETY GLAZING- INTERIOR USE
GL2 1" INSULATED SAFETY GLAZING- EXTERIOR USE

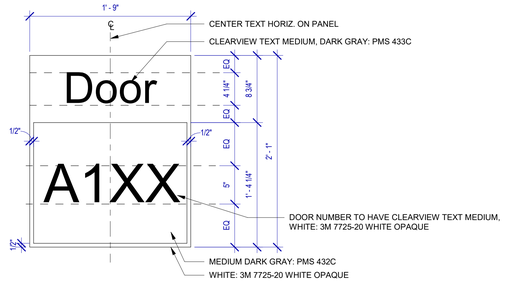
SEALANT

S1 GRAY

NOTE: VERIFY ALL SEALANT AND CAULK COLORS AND LOCATIONS IN THE FIELD WITH ARCHITECT

SIGNAGE SCHEDULE

GENERAL NOTE - SIGNAGE MOUNTING TO BE PLUMB AND LEVEL TO GLASS



SIGN: WS01
GRAPHICS TO BE FULL-BLEED DIGITAL PRINT ON 3M VINYL FILM & APPLIED TO SURFACE OF GLASS.
PROVIDE GRAPHICS FACING BOTH THE ENTRY AND EXIT SIDE OF DOOR

SIGN: WS02 & WS03
GRAPHICS TO MATCH EXISTING DESIGN. MATCH EXISTING SIZE

SIGN: WS04
GRAPHICS TO MATCH EXISTING DESIGN. WIDTH OF SIGN TO BE 1'-8" MAX TO FIT WITHIN THE WIDTHOF GLASS SURFACE

DOOR SCHEDULE

MARK	LOCATION	DOOR LEAF WIDTH	DOOR LEAF HEIGHT	DOOR LEAF FINISH	GLAZING TYPE	DOOR FRAME HEIGHT	DOOR FRAME WIDTH	DOOR FRAME MATERIAL	DOOR FRAME FINISH	DETAILS JAMB	DETAILS HEAD	DETAILS THRESHOLD	REMARKS
A113	VESTIBULE N- EXTERIOR	3' - 11"	8' - 3"	Clear Anodized	GL2	9' - 0"	15' - 7"	ALUM	Clear Anodized	3/A-200	8/A-200	7/A-200	1
A113	VESTIBULE N- INTERIOR	3' - 11"	8' - 3"	Clear Anodized	GL1	9' - 0"	15' - 7"	ALUM	Clear Anodized	3/A-200	12/A-200	4/A-200	1
A114	VESTIBULE W - INTERIOR	3' - 11"	8' - 3"	Clear Anodized	GL1	9' - 0"	15' - 7"	ALUM	Clear Anodized	3/A-200	12/A-200	4/A-200	1
A114	VESTIBULE W - EXTERIOR	3' - 11"	8' - 3"	Clear Anodized	GL2	9' - 0"	15' - 7"	ALUM	Clear Anodized	3/A-200	8/A-200	7/A-200	1
A115	VESTIBULE S - INTERIOR	3' - 10 5/8"	8' - 3"	Clear Anodized	GL1	9' - 0"	15' - 5 1/2"	ALUM	Clear Anodized	3/A-200	12/A-200	4/A-200	1
A115	VESTIBULE S - EXTERIOR	3' - 10 5/8"	8' - 3"	Clear Anodized	GL2	9' - 0"	15' - 5 1/2"	ALUM	Clear Anodized	3/A-200	8/A-200	7/A-200	1

DOOR GENERAL NOTES

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

DOOR SCHEDULE REMARKS LEGEND

1. BASIS OF DESIGN ASSA ABLOY SL500 AUTOMATIC SLIDING DOOR

MATERIALS AND FINISHES GENERAL NOTES

1. WHERE MULTIPLE MATERIALS, FINISHES &/OR VARIATIONS IN ELEVATION ARE SPECIFIED FOR A SINGLE SURFACE, REFERENCE INFORMATION IS LOCATED ON THE PLANS AND ELEVATIONS.
2. INTERIOR WALL FINISHES ARE REFERENCED FROM THE INTERIOR ELEVATIONS.
3. INTERIOR FLOOR FINISHES ARE REFERENCED FROM THE FLOOR PLANS.
4. INTERIOR CEILING FINISHES ARE REFERENCED FROM THE REFLECTED CEILING PLANS.
5. EXTERIOR BUILDING FINISHES ARE REFERENCED FROM THE BUILDING ELEVATIONS.
6. WHERE GYPSUM BOARD LAYERS DIFFER BETWEEN BETWEEN TWO ADJOINING WALLS, MAINTAIN A CONTINUOUS FINISH FACE OF WALL.
8. ALL INTERIOR PAINT SHEENS TO BE EGGSHELL UNLESS OTHERWISE NOTED.

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Review/ Approval Category
IFC
ISSUED FOR CONSTRUCTION

REGISTERED ARCHITECT DANIEL E. DIRR 25004 STATE OF TEXAS
02/03/2023

SHEET NAME: DOOR & MATERIAL SCHEDULE AND DETAILS
SHEET No. A-610 SCALE: As indicated
SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/TerminalA_Doors.rvt
HAS FILE:
PLOT DATE:
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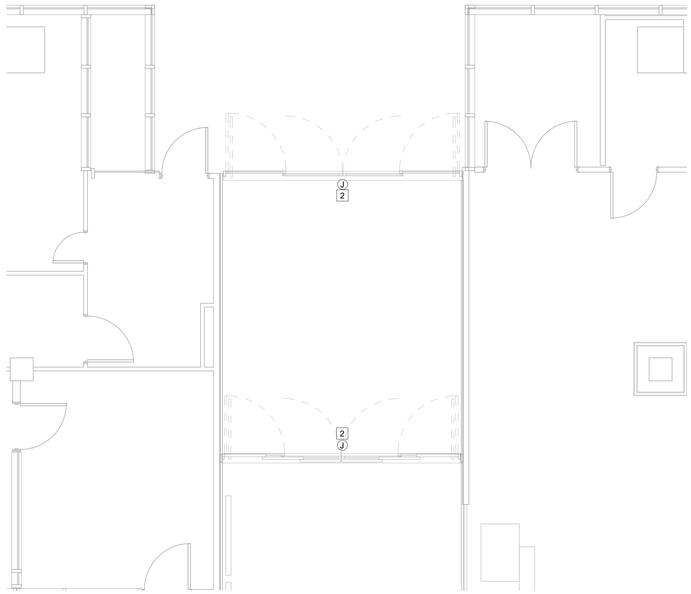
Aconex File Name:

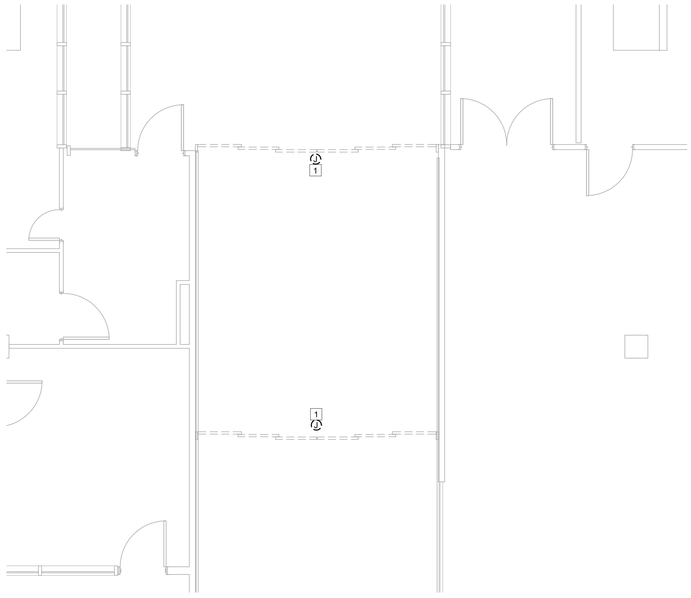
KEYNOTE LEGEND

#	NOTE
1	EXISTING SLIDING DOOR ELECTRICAL WHIP, CONDUIT, AND WIRE TO BE REMOVED BACK TO NEAREST JUCTION BOX. COORDINATE EXACT REQUIREMENTS IN FIELD.
2	CONNECT BACK TO EXISTING CIRCUIT FOR SLIDING DOORS. COORDINATE EXACT LOCATIONTERMINATION IN FIELD.



1 ELECTRICAL POWER PLAN RENOVATION - NORTH

1/4" = 1'-0"



2 ELECTRICAL POWER PLAN DEMOLITION - NORTH

1/4" = 1'-0"

GENERAL HAS ELECTRICAL 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.

2. GUARANTEE LABOR AND MATERIALS FOR 1 YEAR.

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. 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 AND HAS VENDOR.

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 THESE COSTS IN HIS BID PROPOSAL.

10. ALL WORK SHALL COMPLY WITH THE LOCAL BUILDING, PLUMBING, AND MECHANICAL CODES, NFPA 90A, 70 AND ANY OTHER APPLICABLE CODES. ELECTRICAL WORK MUST COMPLY WITH NEC-2017, CITY ELECTRIC CODE, AND HAS-ELECTRIC STANDARDS. BASE BUILDING STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THESE DRAWINGS.

11. ALL LOCATIONS OF DEVICES ARE APPROXIMATE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

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.

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 2017 NEC AND ALL HAS STANDARDS ALL PANELS, DISCONNECTS, TRANSFORMERS SHALL HAVE PHENOLIC TAGS STATING ELECTRICAL ROOM, CIRCUIT NUMBER AND VOLTAGE WITH ARC FLASH STICKERS. WHERE APPLICABLE, ALL RECEPTACLES ON TABLES OR BAR AREA SHALL BE GFCI PROTECTED. CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION FITTING PER NEC.

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, 3/4" x 10'.

21. BOXES - ALL BOXES TO BE GALVANIZED STEEL SUITABLE FOR LOCATION AND SIZED PER THE N.E.C. AND SUPPORTED SEPARATELY FROM CONDUIT.

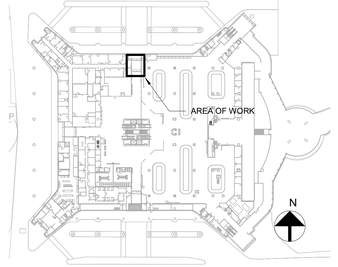
22. DEVICES: SWITCHES - SINGLE POLE, 3-WAY AND 4-WAY SWITCHES TO BE 20 AMP., 120/240 OR 277/480 VOLT AS APPLICABLE. MOUNT SWITCHES AS SHOWN ON PLAN. SWITCHES AND DEVICE PLATES SHALL BE WHITE IN COLOR, UNLESS NOTED OTHERWISE. HUBBELL #1121 OR EQUAL RECEPTACLES - COMMERCIAL GRADE 20 AMP., 120V., NEMA 5-20R, 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 UL LISTED EXPANSION FITTINGS IF CONDUIT CROSSES EXPANSION 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.

24. 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 NEC, NFPA AND JIC STANDARDS.
  - b. NO. 14 AWG OR NO. 16 AWG MAY BE USED FOR "FIXTURE WHIPS" FOR INDIVIDUAL FIXTURES WHEN USING INDIVIDUAL FUSE PROTECTION FOR EACH FIXTURE.
- 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. CONDUCT COLOR CODING SHALL BE CONSISTENT ALONG THE ENTIRE LENGTH OF A CIRCUIT. COLOR CODING SHALL BE AS FOLLOWS:

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

25. COORDINATE ALL FIRE PIPING SYSTEM SHUTDOWN WITH HAS FOR APPROVED VENDOR INVOLVEMENT.
26. COORDINATE ALL UTILITY SHUTDOWNS WITH HAS AND FOLLOW HAS W.A.N. PROCEDURES BEFORE SHUTDOWN.
27. PER 2017 NEC, HAS STANDARDS AND FAA STANDARDS. ANY CONDUIT CROSSING ANY EXPANSION OR DEFLECTION JOING HALL LISA A UL LISTED EXPANSION FITTING WITH BONDING JUMPER (HAS STD. PAGE 21.1.1.W AND NEC 300.7(B).
28. ANY CEILING THAT IS OPENED UP TO BE REWORKED SHALL HAVE AN INSPECTION AND REPAIR ANY OPEN BOXES. OPEN WIRING ON THE REMOVAL OF ANY CONDUIT OR WIRING OF ANY CRAFT SHALL BE REMOVED BACK TOTHE SOURCE PER 2017 NEC SECTION 110.12(A).



KEY PLAN
NOT TO SCALE

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

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9820 Whithorn Dr. Houston, Texas 77095 (713)722-7766
Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.:

PROJECT STATUS: 100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	JE
	ISSUE FOR PERMIT	11/24/2020	JE
	ISSUE FOR CONSTRUCTION	02/03/2023	JE

DESIGN BY:	AC
DRAWN BY:	AC
CHECKED BY:	TJ
ISSUE DATE:	11/20/20
APPROVED BY:	RH
APPROVAL DATE:	11/20/20

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/ Approval Category: **IFC** — ISSUED FOR CONSTRUCTION

N. CURTIS JONES, JR. 58428 REGISTERED PROFESSIONAL ENGINEER
JE#4681
02/03/2023

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

SHEET NAME: ELECTRICAL PLANS - NORTH

SHEET No. E-101N SCALE: As indicated

SHEET SIZE: 30"x42" ARCH E1

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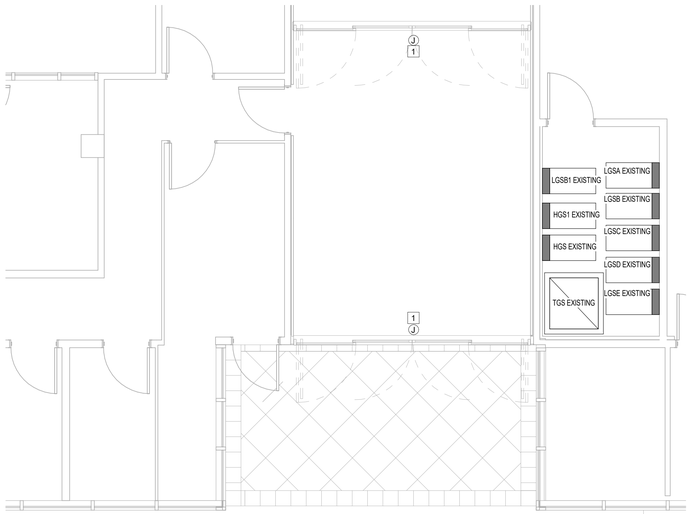
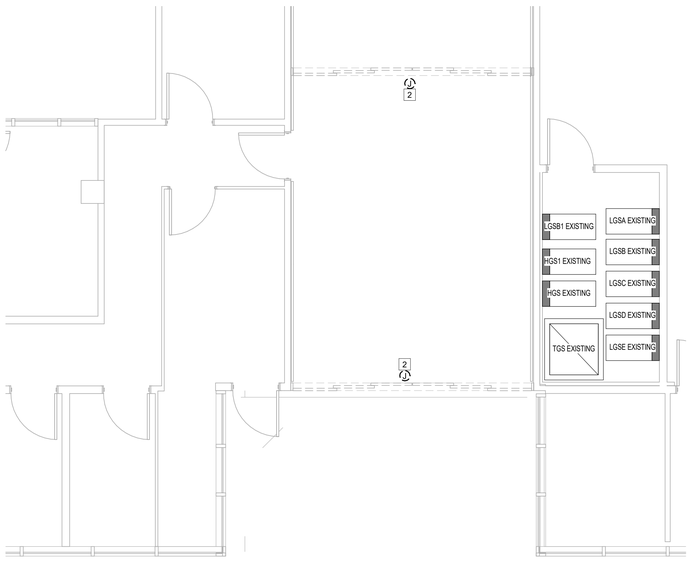
Aconex File Name: **I-19-C-925F** - E-101N -



1 ELECTRICAL POWER PLAN RENOVATION - SOUTH

1/4" = 1'-0"



2 ELECTRICAL POWER PLAN DEMOLITION - SOUTH

1/4" = 1'-0"

KEYNOTE LEGEND

#	NOTE
1	CONNECT BACK TO EXISTING CIRCUIT FOR SLIDING DOORS. COORDINATE EXACT LOCATION/TERMINATION IN FIELD.
2	EXISTING SLIDING DOOR ELECTRICAL WHIP, CONDUIT, AND WIRE TO BE REMOVED BACK TO NEAREST JUCTION BOX. COORDINATE EXACT REQUIREMENTS IN FIELD.

GENERAL HAS ELECTRICAL 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.

2. GUARANTEE LABOR AND MATERIALS FOR 1 YEAR.

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. 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 AND HAS VENDOR.

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 THESE COSTS IN HIS BID PROPOSAL.

10. ALL WORK SHALL COMPLY WITH THE LOCAL BUILDING, PLUMBING, AND MECHANICAL CODES, NFPA 90A, 70 AND ANY OTHER APPLICABLE CODES. ELECTRICAL WORK MUST COMPLY WITH NEC-2017, CITY ELECTRIC CODE, AND HAS-ELECTRIC STANDARDS. BASE BUILDING STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THESE DRAWINGS.

11. ALL LOCATIONS OF DEVICES ARE APPROXIMATE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

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.

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 2017 NEC AND ALL HAS STANDARDS ALL PANELS, DISCONNECTS, TRANSFORMERS SHALL HAVE PHENOLIC TAGS STATING ELECTRICAL ROOM, CIRCUIT NUMBER AND VOLTAGE WITH ARC FLASH STICKERS. WHERE APPLICABLE, ALL RECEPTACLES ON TABLES OR BAR AREA SHALL BE GFCI PROTECTED. CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION FITTING PER NEC.

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, 3/4" x 10'.

21. BOXES - ALL BOXES TO BE GALVANIZED STEEL SUITABLE FOR LOCATION AND SIZED PER THE N.E.C. AND SUPPORTED SEPARATELY FROM CONDUIT.

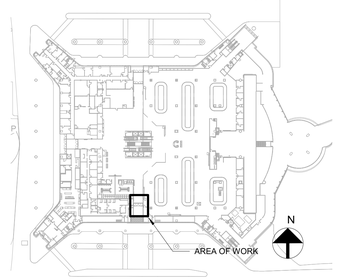
22. DEVICES: SWITCHES - SINGLE POLE, 3-WAY AND 4-WAY SWITCHES TO BE 20 AMP., 120/240 OR 277/480 VOLT AS APPLICABLE. MOUNT SWITCHES AS SHOWN ON PLAN. SWITCHES AND DEVICE PLATES SHALL BE WHITE IN COLOR, UNLESS NOTED OTHERWISE. HUBBELL #1121I OR EQUAL RECEPTACLES - COMMERCIAL GRADE 20 AMP., 120V., NEMA 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 UL LISTED EXPANSION FITTINGS IF CONDUIT CROSSES EXPANSION 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.

24. 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 NEC, NFPA AND JIC STANDARDS.
   b. NO. 14 AWG OR NO. 16 AWG MAY BE USED FOR "FIXTURE WHIPS" FOR INDIVIDUAL FIXTURES WHEN USING INDIVIDUAL FUSE PROTECTION FOR EACH FIXTURE.
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. CONDUCT COLOR CODING SHALL BE CONSISTENT ALONG THE ENTIRE LENGTH OF A CIRCUIT. COLOR CODING SHALL BE AS FOLLOWS:

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

25. COORDINATE ALL FIRE PIPING SYSTEM SHUTDOWN WITH HAS FOR APPROVED VENDOR INVOLVEMENT.
26. COORDINATE ALL UTILITY SHUTDOWNS WITH HAS AND FOLLOW HAS W.A.N. PROCEDURES BEFORE SHUTDOWN.
27. PER 2017 NEC, HAS STANDARDS AND FAA STANDARDS. ANY CONDUIT CROSSING ANY EXPANSION OR DEFLECTION JOING HALL USA A UL LISTED EXPANSION FITTING WITH BONDING JUMPER (HAS STD. PAGE 21.1.1.W AND NEC 300.7(B).
28. ANY CEILING THAT IS OPENED UP TO BE REWORKED SHALL HAVE AN INSPECTION AND REPAIR ANY OPEN BOXES. OPEN WIRING ON THE REMOVAL OF ANY CONDUIT OR WIRING OF ANY CRAFT SHALL BE REMOVED BACK TOTHE SOURCE PER 2017 NEC SECTION 110.12(A).



KEY PLAN
NOT TO SCALE

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

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DESIGNER PROJECT No.:

PROJECT STATUS: 100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	JE
	ISSUE FOR PERMIT	11/24/2020	JE
	ISSUE FOR CONSTRUCTION	02/03/2023	JE

DESIGN BY:	AC
DRAWN BY:	AC
CHECKED BY:	TJ
ISSUE DATE:	11/20/2020
APPROVED BY:	RH
APPROVAL DATE:	11/20/2020

DIRECTOR
of
HOUSTON AIRPORT SYSTEM

Review/ Approval Category: **IFC** — ISSUED FOR CONSTRUCTION

N. CURTIS JONES, JR. — 58428 — REGISTERED PROFESSIONAL ENGINEER — JE#4681 02/03/2023

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

SHEET NAME: ELECTRICAL PLANS - SOUTH

SHEET No. E-101S **SCALE:** As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: **I-19-C-925F** - E-101S -

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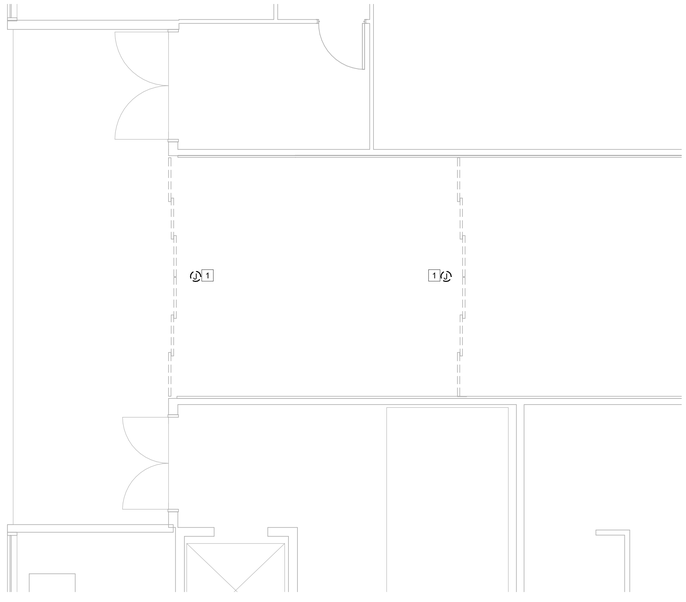
OLD DOA No. :
PLOT DATE:

1 ELECTRICAL POWER PLAN RENOVATION - WEST

1/4" = 1'-0"



2 ELECTRICAL POWER PLAN DEMOLITION - WEST

1/4" = 1'-0"

KEYNOTE LEGEND

#	NOTE
1	EXISTING SLIDING DOOR ELECTRICAL WHIP, CONDUIT, AND WIRE TO BE REMOVED BACK TO NEAREST JUCTION BOX. COORDINATE EXACT REQUIREMENTS IN FIELD.
2	CONNECT BACK TO EXISTING CIRCUIT FOR SLIDING DOORS. COORDINATE EXACT LOCATION/TERMINATION IN FIELD.

GENERAL HAS ELECTRICAL 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.

2. GUARANTEE LABOR AND MATERIALS FOR 1 YEAR.

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. 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 AND HAS VENDOR.

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 THESE COSTS IN HIS BID PROPOSAL.

10. ALL WORK SHALL COMPLY WITH THE LOCAL BUILDING, PLUMBING, AND MECHANICAL CODES, NFPA 90A, 70 AND ANY OTHER APPLICABLE CODES. ELECTRICAL WORK MUST COMPLY WITH NEC-2017, CITY ELECTRIC CODE, AND HAS-ELECTRIC STANDARDS. BASE BUILDING STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THESE DRAWINGS.

11. ALL LOCATIONS OF DEVICES ARE APPROXIMATE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

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.

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 2017 NEC AND ALL HAS STANDARDS ALL PANELS, DISCONNECTS, TRANSFORMERS SHALL HAVE PHENOLIC TAGS STATING ELECTRICAL ROOM, CIRCUIT NUMBER AND VOLTAGE WITH ARC FLASH STICKERS, WHERE APPLICABLE. ALL RECEPTACLES ON TABLES OR BAR AREA SHALL BE GFCI PROTECTED. CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION FITTING PER NEC.

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, 3/4" x 10'.

21. BOXES - ALL BOXES TO BE GALVANIZED STEEL SUITABLE FOR LOCATION AND SIZED PER THE N.E.C. AND SUPPORTED SEPARATELY FROM CONDUIT.

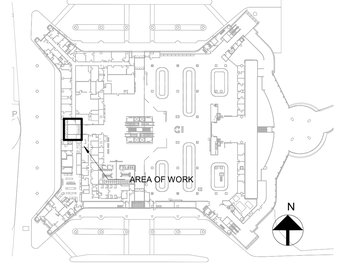
22. DEVICES: SWITCHES - SINGLE POLE, 3-WAY AND 4-WAY SWITCHES TO BE 20 AMP., 120/240 OR 277/480 VOLT AS APPLICABLE. MOUNT SWITCHES AS SHOWN ON PLAN. SWITCHES AND DEVICE PLATES SHALL BE WHITE IN COLOR, UNLESS NOTED OTHERWISE. HUBBELL #1121I OR EQUAL RECEPTACLES - COMMERCIAL GRADE 20 AMP., 120V., NEMA 5-20R, HUBBELL 5362I 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 UL LISTED EXPANSION FITTINGS IF CONDUIT CROSSES EXPANSION 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.

24. 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 NEC, NFPA AND JIC STANDARDS.
   b. NO. 14 AWG OR NO. 16 AWG MAY BE USED FOR "FIXTURE WHIPS" FOR INDIVIDUAL FIXTURES WHEN USING INDIVIDUAL FUSE PROTECTION FOR EACH FIXTURE.
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. CONDUCT COLOR CODING SHALL BE CONSISTENT ALONG THE ENTIRE LENGTH OF A CIRCUIT. COLOR CODING SHALL BE AS FOLLOWS:

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

25. COORDINATE ALL FIRE PIPING SYSTEM SHUTDOWN WITH HAS FOR APPROVED VENDOR INVOLVEMENT.
26. COORDINATE ALL UTILITY SHUTDOWNS WITH HAS AND FOLLOW HAS W.A.N. PROCEDURES BEFORE SHUTDOWN.
27. PER 2017 NEC, HAS STANDARDS AND FAA STANDARDS. ANY CONDUIT CROSSING ANY EXPANSION OR DEFLECTION JOING HALL USA A UL LISTED EXPANSION FITTING WITH BONDING JUMPER (HAS STD. PAGE 21.1.1.W AND NEC 300.7(B).
28. ANY CEILING THAT IS OPENED UP TO BE REWORKED SHALL HAVE AN INSPECTION AND REPAIR ANY OPEN BOXES, OPEN WIRING ON THE REMOVAL OF ANY CONDUIT OR WIRING OF ANY CRAFT SHALL BE REMOVED BACK TOTHE SOURCE PER 2017 NEC SECTION 110.12(A).



KEY PLAN
NOT TO SCALE

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.
C.O.H. No.		D.O.A No.

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Texas Registered Engineering Firm #F-3811

DESIGNER PROJECT No.:

PROJECT STATUS: 100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	JE
	ISSUE FOR PERMIT	11/24/2020	JE
	ISSUE FOR CONSTRUCTION	02/03/2023	JE

DESIGN BY:	AC
DRAWN BY:	AC
CHECKED BY:	TJ
ISSUE DATE:	10/20/2020
APPROVED BY:	RH
APPROVAL DATE:	10/20/2020

DIRECTOR of HOUSTON AIRPORT SYSTEM

Review/ Approval Category: **IFC** — ISSUED FOR CONSTRUCTION

N. CURTIS JONES, JR. 58428 REGISTERED PROFESSIONAL ENGINEER
JE#4681 02/03/2023

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

SHEET NAME: ELECTRICAL PLANS - WEST

SHEET No. E-101W **SCALE:** As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: **I-19-C-925F** - E-101W -

FILE PATH: C:\Users\tim.luber\Documents\4681_Terminal_A_Doors_MEP_R20_tim.luber.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

ABBREV.	DESCRIPTION
&	AND
Ø	PHASE
A, AMP	AMPERES
A.I.P.	AIRPORT IMPROVEMENT PROGRAM
AIC	AMPERES INTERRUPTING CAPACITY
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
AWG	AMERICAN WIRE GAUGE
B.S.G.	BUILDING SERVICES GROUP
BH1	BREAKER
BX	INTERLOCKED ARMORED CABLE
C.I.P.	CAPITAL IMPROVEMENT PROGRAM
COH, C.O.H.	CITY OF HOUSTON
D.O.A.	DEPARTMENT OF AVIATION
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
FIS	FEDERAL INSPECTION SERVICES
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HAS, H.A.S.	HOUSTON AIRPORT SYSTEM
HT	HEIGHT, HEIGHTH
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING
HZ	HERTZ
IAH	INTRCONTINENTAL AIRPORT, HOUSTON
IFP	ISSUE FOR PERMIT
ITRP	INTERNATIONAL TERMINAL REDEVELOPMENT PROGRAM
J-BOX	JUNCTION BOX
JIC	JOINT INDUSTRIAL COUNSEL
KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MAX	MAXIMUM
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
No.	NUMBER
NTS	NOT TO SCALE
PH	PHASE
PMT	PROJECT MANAGEMENT TEAM
PVC	POLYVINYL CHLORIDE (PLASTIC)
QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
RE, REF	REFER TO, REGARDING, REFERENCE
RM	ROOM
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
THWN	THERMOPLASTIC HEAT AND WATER-RESISTANT NYLON-COATED
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERES
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE, WATTS
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE
Y-Δ	WYE-DELTA

GENERAL DEMOLITION NOTES:

A. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF DEMOLITION WORK REQUIRED AND DO NOT INDICATE EVERY PIPE, DUCT, FIXTURE OR PIECE OF EQUIPMENT THAT MUST BE REMOVED. ACCESSIBILITY OF EQUIPMENT AND SYSTEMS IS NOT SHOWN NOR SHOULD IT BE INFERRED. THE DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS AND SURVEY DATA AND THEY MAY NOT REFLECT ALL ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.

B. CONTRACTOR SHALL FIELD VERIFY AS NECESSARY THE EXACT LOCATION OF FIXTURES, PIPING, AND EQUIPMENT TO BE REMOVED. REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION AS REQUIRED.

C. PRIOR TO PROCEEDING WITH ANY WORK, VISIT THE SITE AND COMPARE THE EXISTING FIELD CONDITIONS TO THESE DRAWINGS. NOTIFY IMMEDIATELY THE ARCHITECT OF ANY INCONSISTENCIES BETWEEN THESE DRAWINGS AND ACTUAL CONDITIONS. IF THE CONTRACTOR DETERMINES THAT ANY CONDITIONS EXIST THAT WILL MATERIALLY AFFECT THE PROJECT, INFORM THE OWNER IMMEDIATELY AND DO NOT PERFORM ANY WORK BEFORE RESOLUTION OF THE PROBLEM.

D. NOTIFY IMMEDIATELY THE ARCHITECT IF ANY DEMOLITION OR NEW CONSTRUCTION WORK (AS INDICATED IN THE CONSTRUCTION DOCUMENTS) CANNOT BE PERFORMED DUE TO EXISTING FIELD CONDITIONS.

E. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND ORDINANCES AS SET FORTH BY ALL AUTHORITIES HAVING JURISDICTION (AHJ).

F. ALL WORK WILL BE PERFORMED IN THE BEST WORKMANSHIP POSSIBLE IN ACCORDANCE WITH THAT TRADE'S BEST INDUSTRY STANDARDS.

G. WHEN WORK MUST BE PERFORMED ON OPERATING EQUIPMENT, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

H. THE CONTRACTOR SHALL NOT CUT EXISTING OR NEW STRUCTURAL WORK IN ANY MANNER THAT MAY RESULT IN A REDUCTION OF LOAD CARRYING CAPACITY OR LOAD/DEFLECTION RATIO. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY STRUCTURAL CUTS PRIOR TO EXECUTION SO THAT APPROVAL CAN BE OBTAINED IN ADVANCE FROM THE ARCHITECT AND STRUCTURAL ENGINEER.

I. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATEYELY NOTIFY THE OWNER AND THE ARCHITECT IN WRITING. NOTE: REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL IS THE SOLE RESPONSIBILITY OF THE OWNER AND SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

J. PRIOR TO THE START OF ANY OTHER DEMOLITION, THE CONTRACTOR SHALL REMOVE LAMPS THAT ARE SCHEDULED FOR DISPOSAL SHALL BE REMOVED AND DISPOSED OF AS MERCURY-CONTAMINATED WASTE.

K. THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL EXAMINE SAID LIGHT FIXTURES TO DETERMINE IF ANY LIGHT FIXTURE BALLAST CONTAINS PCB'S. IF ANY LIGHT FIXTURE BALLASTS ARE FOUND TO CONTAIN PCB'S THE CONTRACTOR SHALL REMOVE BALLAST FROM LIGHT FIXTURES AND DISPOSE OF THE BALLASTS IN APPROVED DISPOSAL CONTAINERS PROVIDED BY THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR PROPER DISPOSAL PER LOCAL, STATE AND FEDERAL LAWS AND PAY FOR ALL ASSOCIATED COSTS OF DISPOSAL.

M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF REMAINING LUMINARE PARTS AND ANY NON-PCB FIXTURES PER LOCAL, STATE AND FEDERAL REGULATIONS AND PAY FOR ALL ASSOCIATED COSTS OF DISPOSAL.

N. CONFIRM THE LOCATIONS OF EXISTING UTILITIES AND SERVICES WITHIN THE INDICATED CONSTRUCTION AREA. MAINTAIN EXISTING SERVICES TO ADJACENT AREAS THAT WILL REMAIN IN OPERATION AND SERVED BY THESE SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGES TO EXISTING SERVICES OR UTILITIES.

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

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

Q. DEMOLITION AND CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION OF THE NORMAL DAILY FUNCTIONS WITHIN THE AREAS TO REMAIN IN OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY POWER AS MAY BE REQUIRED TO MAINTAIN SERVICE FOR THE AREAS TO REMAIN IN OPERATION. PROVIDE ALL EQUIPMENT, MAKE ALL ARRANGEMENTS, AND MAKE ALL CONNECTIONS REQUIRED FOR TEMPORARY POWER. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.

R. OPERATING SYSTEMS, UTILITIES AND SERVICES SERVING THE EXISTING SITE SHALL BE MAINTAINED IN OPERATION TO SERVE THE NEEDS OF PORTIONS OF THE BUILDING AND SITE NOT INVOLVED IN THE WORK UNDER THIS CONTRACT AT ALL TIMES DURING THE PROGRESS OF THE WORK UNDER THIS CONTRACT, EXCEPT FOR SUCH SHORT PERIODS AS ARE ABSOLUTELY NECESSARY TO PERFORM THE WORK. SUCH OPERATING SYSTEMS, UTILITIES AND SERVICES INCLUDE BUT ARE NOT LIMITED TO WATER, ELECTRICITY, HVAC, SANITARY, SEWER, FIRE ALARM, TELEPHONE AND SECURITY.

S. ALL SYSTEM CHANGEOVERS BE COMPLETED IN OVERTIME, NOT DURING NORMAL WORKING HOURS.

T. PRIOR TO INTERUPTING OR OTHERWISE AFFECTING ANY SUCH OPERATING SYSTEM, UTILITY OR SERVICE, CONTRACTOR SHALL CONSULT WITH OWNER'S REPRESENTATIVE TO ESTABLISH A MUTUALLY SATISFACTORY SCHEDULE FOR CUT OVER, CUT OFF DISRUPTION OR OTHER CHANGE IN THE OPERATION OF THE AFFECTED SYSTEM, UTILITY OR SERVICE.

U. EXISTING WATER SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MINIMIZE OUTAGE DURING OPERATION.

V. EXISTING ELECTRICAL SYSTEMS: MAINTAIN SERVICE TO ALL FIXTURES, DEVICES AND EQUIPMENT UNTIL NEW WORK IS INSTALLED. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE SHUTTING DOWN SYSTEM FOR ANY REASON. MAKE CHANGEOVER TO NEW WORK WITH MINIMUM OUTAGE. DO NOT DISCONNECT ANY EMERGENCY OR LIFE-SAFETY DEVICES OR EQUIPMENT UNTIL NEW WORK IS IN PLACE AND OPERATIONAL.

W. NOISE AND DUST IS NOT TO BE DISRUPTIVE TO THE OCCUPIED AREA OF THE BUILDING. PROVIDE TEMPORARY PARTITIONS AS REQUIRED.

X. THE CONTRACTOR SHALL TAKE DUE CARE DURING DEMOLITION NOT TO DAMAGE OR DISTURB ANY EXISTING CONDITIONS THAT ARE TO REMAIN. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY EXISTING-TO-REMAIN MATERIALS AND FINISHES WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION.

Y. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING EQUIPMENT THAT COULD BE DAMAGED DUE TO CONSTRUCTION. EXISTING EQUIPMENT DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT NO COST TO THE OWNER.

Z. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING HVAC PIPING AND DUCTWORK NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

AA. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING SPRINKLER PIPING, PLUMBING PIPING, HVAC PIPING, AND DUCTWORK NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

BB. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING SYSTEM DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES.

CC. CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PENETRATIONS CREATED BY REMOVAL OF EQUIPMENT, DUCTWORK, PIPING, ETC. TO MATCH EXISTING. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. PATCH TO MATCH ORIGINAL CONSTRUCTION. VERIFY ALTERNATIVE OR SPECIAL REPAIR METHODOLOGY WITH ARCHITECT/ENGINEER BEFORE PROCEEDING WITH DEMOLITION. COORDINATE ALL REQUIREMENTS WITH DIVISION 01, 01 73 29 CUTTING AND PATCHING.

DD. ANY OPENINGS CREATED IN A FIRE OR SMOKE RATED WALL BY PROVISION OR REMOVAL OF ANY ELECTRICAL DEVICE OR CONDUIT, SHALL BE SEALED AFTER THE WORK IN ADJACENT IS COMPLETED WITH A UL APPROVED FIRE/SMOKE SEALANT APPROPRIATE TO RE-ESTABLISH THE PREVIOUS RATING OF THE WALL. SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS/ FLOORS AND THEIR RATINGS.

EE. EXTEND EXISTING INSTALLATIONS USING MATERIAL AND METHODS COMPATIBLE WITH EXISTING MECHANICAL INSTALLATIONS, OR AS SPECIFIED FOR INTENDED SERVICE.

FF. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

GG. REMOVE ABANDONED DUCTS AND PIPING TO SOURCE OF SUPPLY AND/OR MAIN LINES AND CAP OR MAKE READY FOR RECONNECTION IF SERVICE IS EXTENDED AS PART OF NEW WORK.

HH. REMOVE EXPOSED ABANDONED PIPING AND DUCTS, INCLUDING ABANDONED PIPING AND DUCTS ABOVE ACCESSIBLE CEILING FINISHES. CUT DUCTS FLUSH WITH WALLS AND FLOORS, CAP DUCT THAT REMAINS, AND PATCH SURFACES. CUT PIPING ABOVE CEILINGS, BELOW FLOORS AND BEHIND WALLS. CAP REMAINING LINES. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING AND DUCT REMOVAL.

II. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

JJ. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

KK. GENERAL SCOPE OF ELECTRICAL DEMOLITION CONSISTS OF DISCONNECTING AND REMOVING ALL LUMINAIRES, WIRING DEVICES, EQUIPMENT, BRANCH CIRCUIT WIRING AND CONDUIT WITHIN THE CONFINES OF THE DEMOLITION AREA, AS DEFINED ON THE DEMOLITION DRAWINGS. LUMINAIRES AND OTHER ELECTRICAL ITEMS OR EQUIPMENT AS DEFINED BY THE OWNER SHALL BE TURNED OVER TO THE OWNER.

LL. WHERE EQUIPMENT OR DEVICES ARE NOTED AS "REMOVE", REMOVE ALL CONDUCTORS ASSOCIATED WITH THESE ITEMS TO THE LAST ACTIVE ITEM ON THE CIRCUIT, OR TO THE BRANCH CIRCUIT BREAKER IF ALL ITEMS ON THE CIRCUIT ARE REMOVED. EXISTING CONDUITS THAT WILL NOT BE REUSED SHALL BE REMOVED WHERE THEY ARE RUN EXPOSED, RUN ABOVE CEILING OR IN FLOOR PLENUMS. CONDUITS RUN CONCEALED IN WALLS OR FLOOR SLABS SHALL BE CUT OFF FLUSH WITH SURFACE AND ABANDONED. ALL VOIDS IN WALLS OR FLOOR LEFT BY THE REMOVAL OF ELECTRICAL EQUIPMENT OR CONDUITS SHALL BE FILLED WITH NON-SHRINK GROUT AND FINISHED TO MATCH EXISTING ADJACENT SURFACES.

MM. THE CONTRACTOR SHALL REROUTE AND RECONNECT ANY CIRCUIT OR CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH NEW CONSTRUCTION.

NN. EXISTING JUNCTION BOXES TO REMAIN SHALL HAVE COVERS. PROVIDE COVERS AND INDICATE THE TYPE OF CIRCUIT OR CIRCUIT NUMBERS PASSING THROUGH THE BOX.

OO. PLUG PIPES AND PATCH FLOOR FLUSH WITH EXISTING SLAB ON GRADE AT ANY PLUMBING FLOOR PENETRATIONS NO LONGER REQUIRED.

PP. CONTRACTOR SHALL REMOVE ALL PIPING AND ASSOCIATED SUPPORTS FROM ABOVE SLAB ON GRADE TO BELOW ROOF WHICH WAS PREVIOUSLY ABANDONED OR WHICH SERVES PLUMBING FIXTURES AND EQUIPMENT DESIGNATED FOR REMOVAL. REFER TO PLUMBING FLOOR PLANS FOR NEW FIXTURES OR EQUIPMENT TO BE INSTALLED IN THOSE LOCATIONS. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY FIXTURES OR EQUIPMENT TO REMAIN. CAP REMOVED BRANCH LINES AS CLOSE AS POSSIBLE TO EXISTING MAINS.

QQ. MECHANICAL ITEMS REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.

RR. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, (WHICH INCLUDES BUT INS NOT LIMITED TO DEVICES, FIXTURES, WIRING (CIRCUITRY), CABLING, CONDUIT, ETC.,) AS DESCRIBED AND SHALL GIVE THE OWNER AN OPPORTUNITY TO KEEP DEMOLISHED ELECTRICAL EQUIPMENT PRIOR TO THEM BEING DISCARDED.

Branch Panel: LGSB1 EXISTING

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

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

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

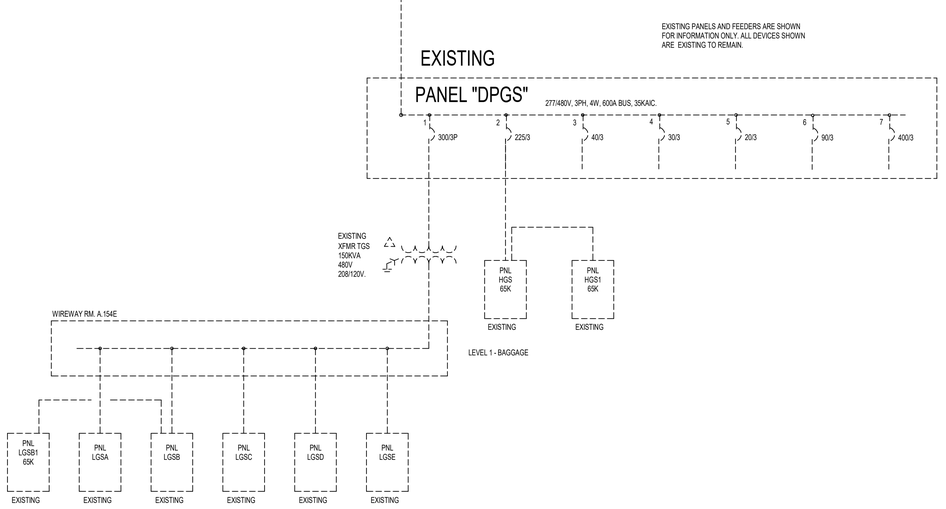
Notes:

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT
1	Spare	--	20 A	1	0 VA 540 VA			1	20 A	--	Existing Rcpt BGbadging RR	2
3	Spare	--	20 A	1		0 VA 540 VA		1	20 A	--	Existing Rcpt Womens RR	4
5	Existing Rcpt RR/Family	--	20 A	1			540 VA 540 VA	1	20 A	--	Existing Rcpt Womens RR	6
7	Existing Rcpt Mens RR	--	20 A	1	540 VA 540 VA			1	20 A	--	Existing Rcpt Womens RR	8
9	Existing Mens Hand Dryer	--	20 A	1		1000... 1000...		1	20 A	--	Existing Womens Hand Dryer	10
11	Existing Mens Hand Dryer	--	20 A	1			1000... 1000...	1	20 A	--	Existing Womens Hand Dryer	12
13	Existing Rcpt Mens RR	--	20 A	1	540 VA 0 VA			1	20 A	--	Spare	14
15	Existing Rcpt Mens RR	--	20 A	1		540 VA 700 VA		1	20 A	--	Existing Badging EDF...	16
17	Spare	--	20 A	1			0 VA 0 VA	1	20 A	--	Spare	18
19	Existing EDF	--	20 A	1	700 VA 500 VA			1	20 A	--	Existing JC Decaus Sign	20
21	Existing JC Decaus Sign	--	20 A	1		500 VA 500 VA		1	20 A	--	Existing JC Decaus Sign	22
23	Existing JC Decaus Sign	--	20 A	1			500 VA 500 VA	1	20 A	--	Existing JC Decaus Sign	24
25	Space	--	--	--	0 VA 0 VA			--	--	--	Space	26
27	Space	--	--	--		0 VA 0 VA		--	--	--	Space	28
29	Space	--	--	--			0 VA 0 VA	--	--	--	Space	30
31	Space	--	--	--	0 VA 0 VA			--	--	--	Space	32
33	Space	--	--	--		0 VA 0 VA		--	--	--	Space	34
35	Space	--	--	--			0 VA 0 VA	--	--	--	Space	36
37	Space	--	--	--	0 VA 0 VA			--	--	--	Space	38
39	Space	--	--	--		0 VA 0 VA		--	--	--	Space	40
41	Space	--	--	--			0 VA 0 VA	--	--	--	Space	42
			Total Load:		3360 VA	4780 VA	4080 VA					
			Total Amps:		28 A	41 A	35 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	12220 VA	100.00%	12220 VA		
				Total Conn. Load:	12220 VA
				Total Est. Demand:	12220 VA
				Total Conn.:	34 A
				Total Est. Demand:	34 A

Notes:
NO LOAD ADDED



3 ELECTRICAL ONE LINE DIAGRAM
NOT TO SCALE

EXISTING PANELS AND FEEDERS ARE SHOWN FOR INFORMATION ONLY. ALL DEVICES SHOWN ARE EXISTING TO REMAIN.

Load Analysis

	KVA
Removed Automatic Doors	-2.0
New Automatic Door	2.0
Total	0.0

NO LOAD ADDED

277/480V, 3 PHASE, 4 WIRE SERVICE

SYMBOL LEGEND

SWITCHES

- $ — SWITCH, SPST, 20A, 120/277V
- $3 — SWITCH, 20A, 120/277V, "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY
- $OC — WALL MOUNTED OCCUPANT SENSOR WITH 0-10V DIMMER. PROVIDE ENOUGH SENSORS/CEILING OR WALL MOUNTED) FOR 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%). EATON #VSN-P-010
- $M — SWITCH, MOTION SENSOR, NOVITAS #01-133
- 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 NOTED.
- UNDER GROUND 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.
- FLOOR OUTLET
- J — 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/TELEPHONE/DATA FLOOR OUTLET
- HUBBELL #B4333 FLOOR BOX; HUBBELL 1 - #S3825 AND 2 - #S3625 COVER; HUBBELL, #SB3085 CARPET FLANGE
- HUBBELL #B4233 FLOOR BOX; HUBBELL 1 - #S3825 COVER AND 1 - #S3625 COVER; HUBBELL, #SB3084 CARPET FLANGE
- HUBBELL #B2436 FLOOR BOX; HUBBELL #S3825 COVER; HUBBELL, #SB3083 CARPET FLANGE

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
- MOTOR STARTER
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/#0" DENOTES AMPERES/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
- S — SPEAKER
- MANUAL PULL STATION
- ? — AREA SMOKE DETECTOR, "H" HEAT DETECTOR, "DD" DUCT DETECTOR.
- W — SPRINKLER FLOW SWITCH
- T — VALVE SUPERVISORY SWITCH

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVALS LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

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DESIGNER PROJECT No.:
PROJECT STATUS: 100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	90% REVIEW	11/06/2020	JE
	ISSUE FOR PERMIT	11/24/2020	JE
	ISSUE FOR CONSTRUCTION	02/03/2023	JE

DESIGN BY:	AC
DRAWN BY:	AC
CHECKED BY:	RH
ISSUE DATE:	04/20/2021
APPROVED BY:	RH
APPROVAL DATE:	04/20/2021

DIRECTOR of HOUSTON AIRPORT SYSTEM

Review/ Approval Category: **IFC** — ISSUED FOR CONSTRUCTION

N. CURTIS JONES, JR. 58428 REGISTERED PROFESSIONAL ENGINEER
JE#4681 02/03/2023
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY N. CURTIS JONES, JR. P.E. 58428

SHEET NAME: ELECTRICAL DETAILS
SHEET No. E-301 **SCALE:** As indicated

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: C:\Users\tim.luber\Documents\4681_Terminal_A_Doors_WEP_R20_tim.luber.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

Aconex File Name: **I-19-C-925F** - E-301 -

GENERAL NOTES

1. THE FOLLOWING GENERAL NOTES ARE APPLICABLE AS STATED BELOW, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, ON THE DRAWINGS OR IN THE BID SPECIFICATION.
2. 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.
3. DEVICE LOCATIONS ON PLANS ARE CONCEPTUAL. LOCATE AS SITE CONDITIONS REQUIRE AND AS APPROVED BY THE OWNER.
4. REFER TO THE BID SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK.
5. 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).
6. PROVIDE PAINTING, PATCHING AND FINISHES, OF MATERIALS AND DEVICES, AS APPROVED BY THE OWNER.
7. DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS. ACTUAL ARCHITECTURAL CONDITIONS (SUCH AS DIRECTION OF SWING AND HAND OF DOOR) MAY VARY.
8. WORK AND MATERIALS TO CONFORM TO THE MOST CURRENT UNIFORM STANDARD SPECIFICATIONS, ASSOCIATED 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 THE CONTRACTOR'S EXPENSE.
9. FOR INFORMATION REGARDING FIRE RATINGS AND OCCUPANCY SEPARATIONS, REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS.
10. NEW CONDUIT CONNECTIONS TO INCLUDE INTEGRAL PROTECTIVE BUSHINGS OR CHASE NIPPLES.
11. 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.
12. 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. CONTRACTOR TO VERIFY CONDUIT AND PLENUM CABLE PATHS INDICATED ON THE DRAWINGS. CONTRACTOR MAY PROPOSE ALTERNATE ROUTING WHERE CONFLICTS ARE FOUND.
18. CONTRACTOR IS RESPONSIBLE FOR CEILING INTEGRITY, THIS INCLUDES ROUTING ABOVE CONCEALED SPLINE INTERLOCKING TILES.
19. CONTRACTOR TO 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. 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.
26. LOCATE DEVICES AS SITE CONDITIONS REQUIRE.
27. FIELD VERIFY ALL DIMENSIONS.
28. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS REGARDING THIS WORK. CONTRACTOR TO PREPARE PROPOSAL FOR EACH DISCIPLINE. PROVIDE COORDINATION BETWEEN DISCIPLINES FOR CONSTRUCTION.
29. NOTIFY DESIGN CONSULTANT AND OWNER WHERE EXISTING CONDITIONS REQUIRE REPAIR PRIOR TO INSTALLATION.
30. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
31. ALL CABLE PULLS WITHIN EXISTING AND NEW CONDUITS TO BE MADE AT SAME TIME.
32. 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
33. DEFINITION: BY DIVISION 8 - EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 8 CONTRACTOR.
34. DEFINITION: BY DIVISION 26 - EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 26 CONTRACTOR.
35. DEFINITION: BY DIVISION 27 - EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 27 CONTRACTOR.

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 PROIR 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.

REFERENCE SPECIFICATIONS

1. 270528 - INTERIOR COMMUNICATION PATHWAYS.
2. 271500 - HORIZONTAL MEDIA INFRASTRUCTURE.
3. 282300 - VIDEO SURVEILLANCE CONTROL AND MANAGEMENT SYSTEM.
4. SPECIFICATION CAN BE DOWNLOADED AT <HTTPS://WWW.FLY2HOUSTON.COM/BIZ/RESOURCES/BUILDING-STANDARDS-AND-PERMITS/>

SECURITY ABBREVIATION

A	AMPERE	NTS	NOT TO SCALE
AC	ALTERNATING CURRENT POWER CONNECTION	NVR	NETWORK VIDEO RECORDER
A.F.C.	ABOVE FINISHED CEILING	NWS	NETWORK SWITCH
A.F.F.	ABOVE FINISHED FLOOR	OPP	OPPOSITE
A.F.G.	ABOVE FINISHED GRADE	OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
AMP	AMPERE	P	POLE
AP	ACCESS POINT	PH	PHASE
B.F.C.	BELOW FINISHED CEILING	PB	PULL BOX
B.F.G.	BELOW FINISHED GRADE	PBX	PRIVATE BRANCH EXCHANGE (IN-HOUSE TELEPHONE SWITCH)
C.	CONDUIT	PED	PEDESTAL
CCVS	CLOSED CIRCUIT VIDEO SURVEILLANCE	PoE	POWER OVER ETHERNET
C.U.	CENTRAL OFFICE TELEPHONE LINE	Q	QUANTITY
CPS	CAMERA POWER SUPPLY	R	READER
CPU	CENTRAL PROCESSING UNIT	REQ'D	REQUIRED
CR	CARD READER	REX	REQUEST-TO-EXIT
DA	DURESS (PERSONAL ASSIST) SWITCH	RF	REFER TO
DPS	DOOR POSITION SWITCH	RGS	RIGID STEEL CONDUIT
(E)	EXISTING	RX	RECEIVE / RECEIVER
EC	ELECTRICAL CONTRACTOR	SAN	STORAGE AREA NETWORK
ELVC	ELEVATOR CONTRACTOR	SIM	SIMILAR
EXT	EXTERNAL	SM	SINGLE MODE
EW	EACH WAY	SPB	SECURITY PULLBOX
F	FUTURE	STC	SECURITY TERMINAL CABINET
FOPP	FIBER OPTIC PATCH PANEL	TGB	TERMINAL GROUND BUSBAR
GA	GATE ARM	TS	TURNSTILE
GC	GENERAL CONTRACTOR	TSA	TRANSPORTATION SECURITY ADMINISTRATION
GND	GROUND	TYP	TYPICAL
GPS	GLOBAL POSITIONING SYSTEM	TX	TRANSMIT / TRANSMITTER
GRC	GALVANIZED RIGID CONDUIT	UON	UNLESS OTHERWISE NOTED
HAS	HOUSTON AIRPORT SYSTEMS	V	VOLT
HD	HIGH DEFINITION	VA	VOLT-AMPERE
HOU	WILLIAM P. HOBBY AIRPORT	VAC	VOLTS ALTERNATING CURRENT
IC	INTERCOM FIELD STATION	VDC	VOLTS DIRECT CURRENT
ICS	INTERCOM SYSTEM	VLAN	SECURITY LOCAL AREA NETWORK
ID	IDENTIFICATION	VMS	VIDEO MANAGEMENT SYSTEM
J	JUNCTION	VS	VIDEO SYSTEM
KVA	KILO VOLT - AMPERE	WAN	WIDE AREA NETWORK
LAN	LOCAL AREA NETWORK	W/	WITH
LPS	LOW VOLTAGE POWER SUPPLY	W/O	WITHOUT
LRDN	LONG RANGE DAY/NIGHT	WP	WEATHER PROOF
MC	MOBILITY CONTROLLER	WS	WORKSTATION
MD	MOTION DETECTOR	XFMR	TRANSFORMER
MFG	MANUFACTURER	(N)	NEW
MM	MULTIMODE	(R)	EXISTING, TO BE REMOVED AND REPLACED, AS SPECIFIED
N/A	NOT APPLICABLE	(U)	UPGRADE
NC	NORMALLY CLOSED	(X)	EXISTING, TO BE REMOVED
NO	NORMALLY OPEN	(SL)	SLIDING GATE
N.I.C.	NOT IN CONTRACT	360	360 CAMERA
		-C	CEILING MOUNTED
		-P	POLE MOUNTED

SECURITY EQUIPMENT SYMBOLS LIST

SYMBOL	DESCRIPTION
360	360 IP CAMERA
AV	AUDIBLE / VISUAL DEVICE
CPS	CAMERA POWER SUPPLY
CR	CARD READER
AED	DEFIBRILLATOR
D	DOOR POSITION SWITCH (FLUSH MOUNT)
D S	DOOR POSITION SWITCH (SURFACE MOUNT)
D RD	DOOR POSITION SWITCH (ROLL UP DOOR)
D	DURESS BUTTON (UNDER DESK/TABLE/COUNTER)
EL M	ELECTRIC MORTISE LOCK W/ REX SWITCH (FAIL SECURE)
ML	ELECTROMAGNETIC LOCK
EP DE	EXIT PANIC BAR WITH ELECTRIC LATCH RETRACTION, REX SWITCH AND DELAYED EGRESS (FAIL SECURE)
EP	EXIT PANIC BAR WITH REX SWITCH
FO	FIBER OPTIC PATCH PANEL
FOR	FIBER OPTIC RECEIVER
FOT	FIBER OPTIC TRANSMITTER
FP	FIRE ALARM PULL STATION
FIX	FIXED HD IP CAMERA
IFP	INTELLIGENT FIELD PANEL
J #	JUNCTION BOX ("#" DENOTES NUMBER) #1 : 12"x12"x6" JUNCTION BOX, #2 : 6"x6"x4"
LPS	LOCK POWER SUPPLY
NWS	NETWORK SWITCH
PoE	POWER OVER ETHERNET
PoE EXT	POWER OVER ETHERNET (PoE EXTENDER)
#	REFER TO NOTE SCHEDULE ON SHEET AS INDICATED
M	REQUEST -TO- EXIT MOTION SENSOR
T	TAMPER SWITCH
DE	TIME DELAY EXIT BAR

SHEET INDEX

HOUSTON AIRPORTS
2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVAL LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

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TBPE FIRM #12493

DESIGNER PROJECT No.:
PROJECT STATUS: 100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	95% REVIEW	05/13/2020	PGA
	ISSUE FOR PERMIT	11/20/2020	PGA
	ISSUE FOR CONSTRUCTION	02/03/2023	PGA

DESIGN BY:	JG
DRAWN BY:	DW
CHECKED BY:	RP
ISSUE DATE:	02/03/2023
APPROVED BY:	JG
APPROVAL DATE:	02/03/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

Review/ Approval Category: IFC — ISSUED FOR PERMIT

STATE OF TEXAS — JOHN GRUENWALD — 100039 — LICENSED PROFESSIONAL ENGINEER — 02/03/2023

SHEET NAME: SECURITY - GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
SHEET No. TY-000 SCALE:

SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

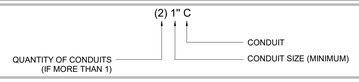
Aconex File Name: I-19-C-925F - TY-000 -

SECURITY CABLE DESIGNATION/TYPE *

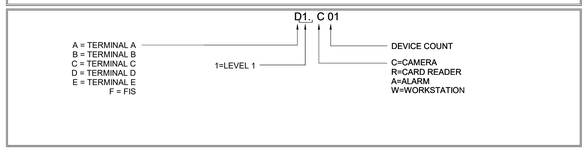
DESIGNATION	DESCRIPTION	USAGE	PART #
A	1 PAIR 22AWG SHIELDED	ALARM MONITORING	BELDEN 5500FE
B	2 PAIR 20AWG SHIELDED	MOTION DETECTOR, BEAM DETECTORS	BELDEN 5441FE
C	3 PAIR 22AWG SHIELDED	CARD READER	BELDEN 5542FE
D	2/C 18AWG	CAMERA PWR, PUSH BUTTON, LOCK PWR	BELDEN 5300UE
E	2 PAIR 22AWG SHIELDED	DATA, CCVS PTZ CONTROL	BELDEN 5541FE
F	2/C 18AWG SHIELDED	HORN	BELDEN 5300FE
G	COAXIAL W/2C POWER	VIDEO	
H	1 PAIR 20AWG TWISTED	INTERCOM	BELDEN 5400FE
J	1 PAIR TWISTED SH 18AWG PLUS 2/C 18AWG	EMERGENCY PHONE	BELDEN 5302GE
K	CAT6 UTP (PLENUM)	NETWORK AND CAMERA	SYSTIMAX 2071E
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
M	CCTV COMPOSITE CABLE 2C 18AWG, UNSHIELDED, CABLE ETHERNET (PLENUM), R659 (PLENUM)	CAM PWR, UTP/IP VIDEO ANALOG VIDEO CONNECT K112	WSECOMP-2817
N	4 CONDUCTOR, 22 AWG, (7X30) STRANDED	DURESS BUTTON	WEST PENN 25241B

* THIS TABLE IS REFERENCED AND IS SHOWN AS AN EXAMPLE OF ACCEPTABLE CABLE DESIGNATIONS. CONTRACTOR SHALL UTILIZE CABLE DESIGNATION TABLE FOR SHOP DRAWING AND RECORD DRAWING SUBMITTALS.

CONDUIT DESIGNATION KEY



DEVICE DESIGNATION KEY



ITEM	CAMERA NO.	SHEET NO.	LEVEL	CAMERA VIEW	CAMERA TYPE	CAMERA MOUNTING TYPE	TERMINATING IDF	REFERENCE MOUNTING DETAIL
1	(N) A1.C01	TY-140	LEVEL 1	WEST LOBBY GENERAL AREA	360	CEILING SURFACE MOUNT	IDF A.3BL	A4-B/TY-500
2	(E) A-1009	TY-140	LEVEL 1	WEST LOBBY GENERAL AREA	HD PTZ	CEILING SURFACE MOUNT	IDF A.3BL	A4-B/TY-500
3	(E) A-1722	TY-140	LEVEL 1	WEST ENTRANCE DOOR	HD FIX	CEILING FLUSH MOUNT	IDF A.3BL	A4-A/TY-500
4	(E) A-1000	TY-141	LEVEL 1	SOUTH LOBBY GENERAL AREA	360	CEILING SURFACE MOUNT	IDF A.3BL	A4-B/TY-500
5	(E) A1727	TY-141	LEVEL 1	SOUTH ENTRANCE DOOR	HD FIX	CEILING FLUSH MOUNT	IDF A.3BL	A4-A/TY-500
6	(E) A-1032	TY-141	LEVEL 1	TAXI BOOTH	HD FIX	CEILING SURFACE MOUNT	IDF A.3BL	A4-B/TY-500
7	(N) A1.C02	TY-142	LEVEL 1	NORTH LOBBY GENERAL AREA	360	CEILING SURFACE MOUNT	IDF A.1BL	A4-B/TY-500
8	(E) A-1715	TY-142	LEVEL 1	NORTH ENTRANCE DOOR	HD FIX	CEILING FLUSH MOUNT	IDF A.1BL	A4-A/TY-500

C4 CAMERA SCHEDULE
SCALE: NTS

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES
ARRIVAL LEVEL

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

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PROJECT STATUS: 100% CD

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	ISSUE FOR CONSTRUCTION	02/03/2023	PGA

DESIGN BY:	JG
DRAWN BY:	DW
CHECKED BY:	RP
ISSUE DATE:	02/03/2023
APPROVED BY:	JG
APPROVAL DATE:	02/03/2023

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100039
LICENSED PROFESSIONAL ENGINEER
02/03/2023

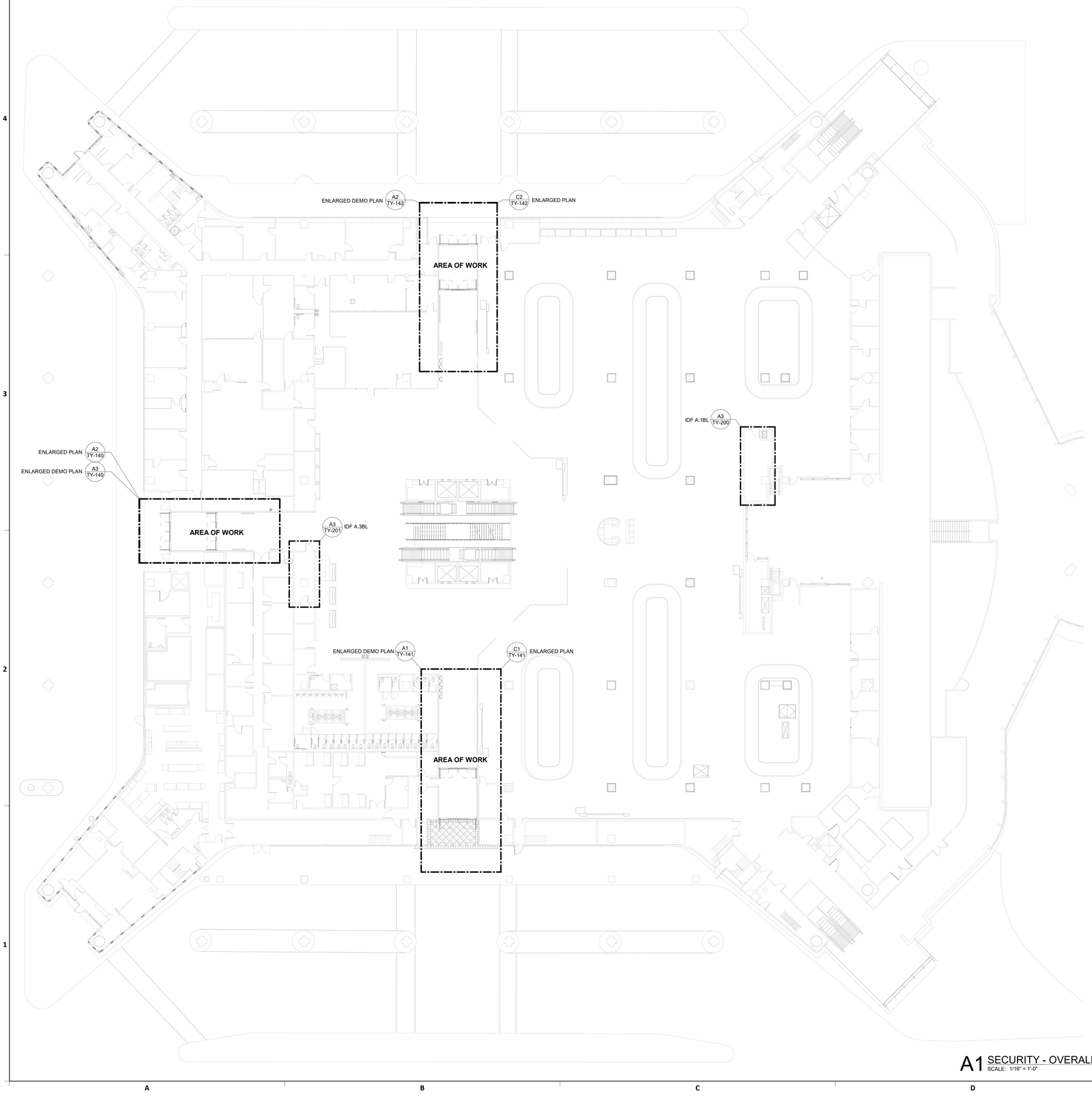
SHEET NAME: SECURITY - NOTES, EQUIPMENT SCHEDULES

SHEET No. TY-001 | SCALE: NTS

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:
HAS FILE:
FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt

Aconex File Name: I-19-C-925F - TY-001 -



GENERAL NOTES:

1. SCREENED DEVICES DENOTE EXISTING.
2. COORDINATE WITH HAS IT FOR iPATCH AND NETWORK SWITCH PORT ASSIGNMENTS.

A1 SECURITY - OVERALL FLOOR PLAN - LEVEL 1
SCALE: 1/16" = 1'-0"

0 8' 16' 32'
SCALE : 1/16" = 1'-0"

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVAL LEVEL

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

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SHEET NAME: SECURITY - OVERALL FLOOR PLAN - LEVEL 1

SHEET No. TY-110 SCALE: 1/16" = 1'-0"

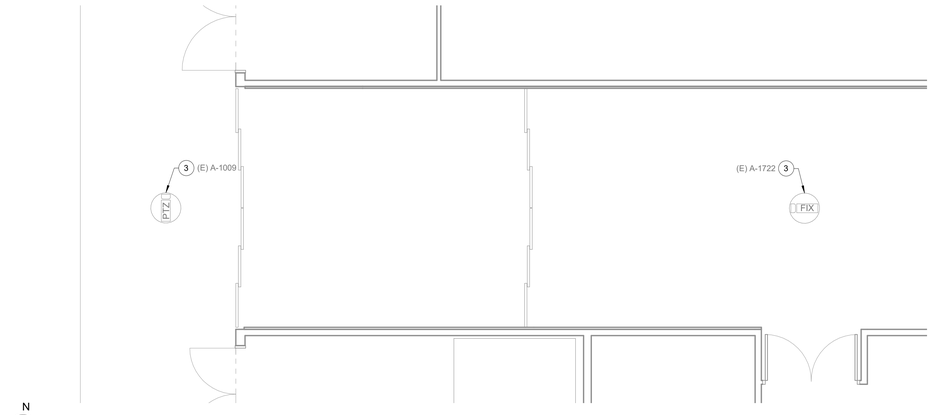
SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - TY-110 -

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

HAS FILE:

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt



N

A3 SECURITY - WEST ENTRANCE - ENLARGED DEMO PLAN
SCALE: 1/4" = 1'-0"

N

A2 SECURITY - WEST ENTRANCE - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SCREENED DEVICES DENOTE EXISTING.
2. COORDINATE WITH HAS IT FOR iPATCH AND NETWORK SWITCH PORT ASSIGNMENTS.

KEY NOTES

1. (N) AXIS P3245-LV INDOOR FIXED CAMERA. PROVIDE (N) CAT 6 CABLE ROUTED VIA 1" CONDUIT TO IDF A.3BL. THE REUSE OF EXISTING CONDUIT IS PERMITTED. REFER TO ONE-LINE DIAGRAM ON SHEET TY-201.
2. (N) AXIS M5525-E OUTDOOR PTZ CAMERA. PROVIDE (N) CAT 6 CABLE ROUTED VIA 1" CONDUIT TO IDF A.3BL. THE REUSE OF EXISTING CONDUIT IS PERMITTED. REFER TO ONE-LINE DIAGRAM ON SHEET TY-201.
3. REPLACE EXISTING CAMERA WITH NEWER MODEL AT SAME LOCATION. RETURN CAMERA TO OWNER.
4. (N) HONEYWELL HFD6GRI 360 CAMERA. PROVIDE (N) CAT 6 CABLE ROUTED VIA 1" CONDUIT TO IDF A.3BL.

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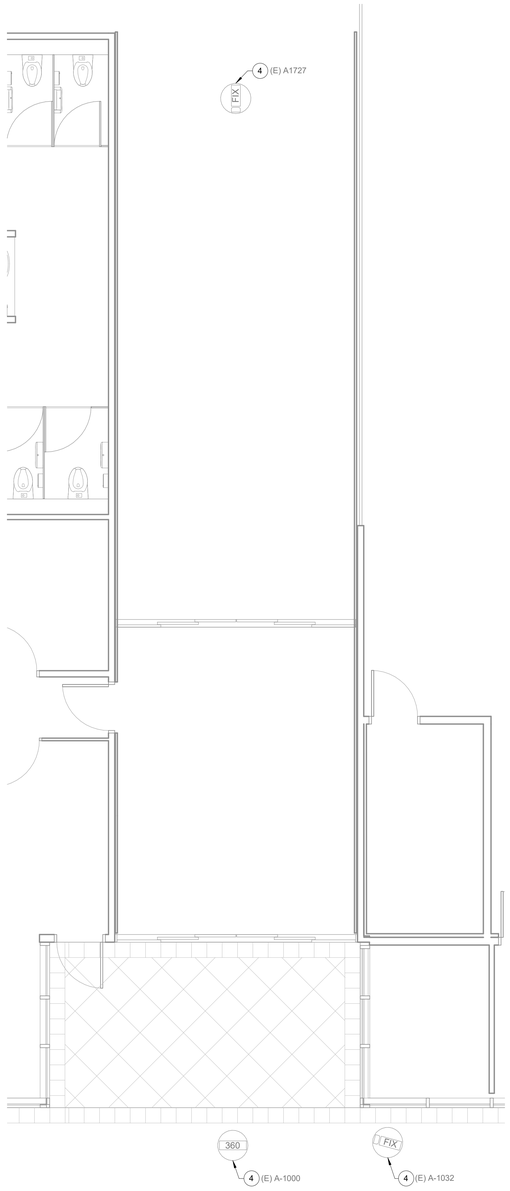
SHEET NAME: SECURITY - ENLARGED PLANS - LEVEL 1 WEST

SHEET No. TY-140 **SCALE:** 1/4" = 1'-0"

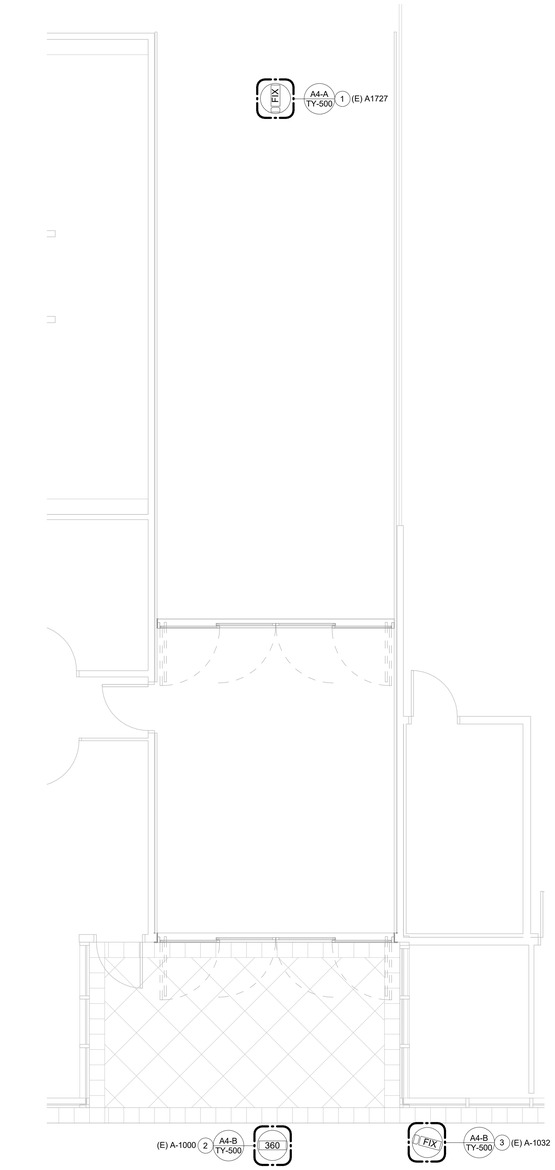
SHEET SIZE: 30"x42" ARCH E1

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:

Aconex File Name: I-19-C-925F - TY-140 -



A1 SECURITY - SOUTH ENTRANCE - ENLARGED DEMO PLAN
SCALE: 1/4" = 1'-0"



C1 SECURITY - SOUTH ENTRANCE - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SCREENED DEVICES DENOTE EXISTING.
2. COORDINATE WITH HAS IT FOR iPATCH AND NETWORK SWITCH PORT ASSIGNMENTS.

KEY NOTES

1. (N) AXIS P3245-LV INDOOR FIXED CAMERA. PROVIDE (N) CAT 6 CABLE ROUTED VIA 1" CONDUIT TO IDF A.3BL. THE REUSE OF EXISTING CONDUIT IS PERMITTED. REFER TO ONE-LINE DIAGRAM ON SHEET TY-201.
2. (N) HONEYWELL HFD6GRI 360 CAMERA. PROVIDE (N) CAT 6 CABLE ROUTED VIA 1" CONDUIT TO IDF A.3BL. THE REUSE OF EXISTING CONDUIT IS PERMITTED. REFER TO ONE-LINE DIAGRAM ON SHEET TY-201.
3. (N) AXIS P3245-LVE INDOOR FIXED CAMERA. PROVIDE (N) CAT 6 CABLE ROUTED VIA 1" CONDUIT TO IDF A.3BL. THE REUSE OF EXISTING CONDUIT IS PERMITTED. REFER TO ONE-LINE DIAGRAM ON SHEET TY-201.
4. REPLACE EXISTING CAMERA WITH NEWER MODEL AT SAME LOCATION. RETURN CAMERA TO OWNER.

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVAL LEVEL

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02/03/2023

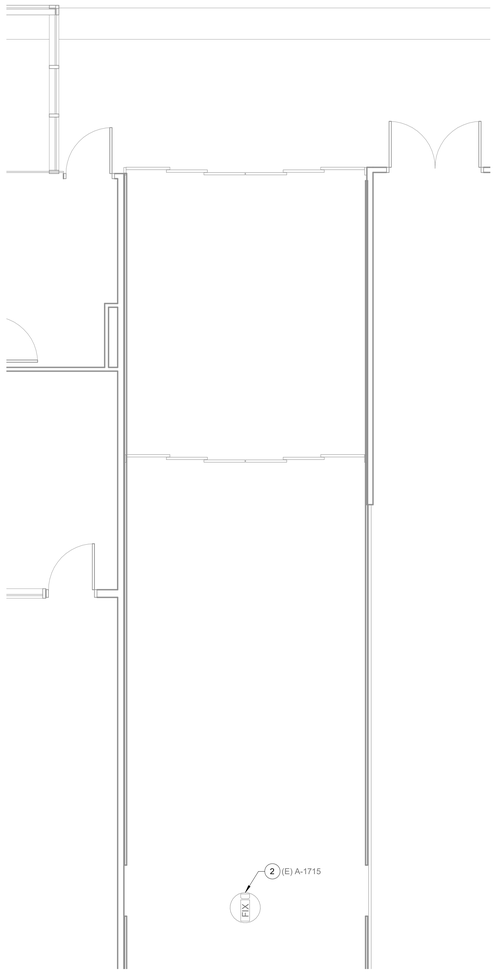
SHEET NAME: SECURITY - ENLARGED PLANS - LEVEL 1 SOUTH

SHEET No.	TY-141	SCALE:	1/4" = 1'-0"

SHEET SIZE: 30"x42" ARCH E1

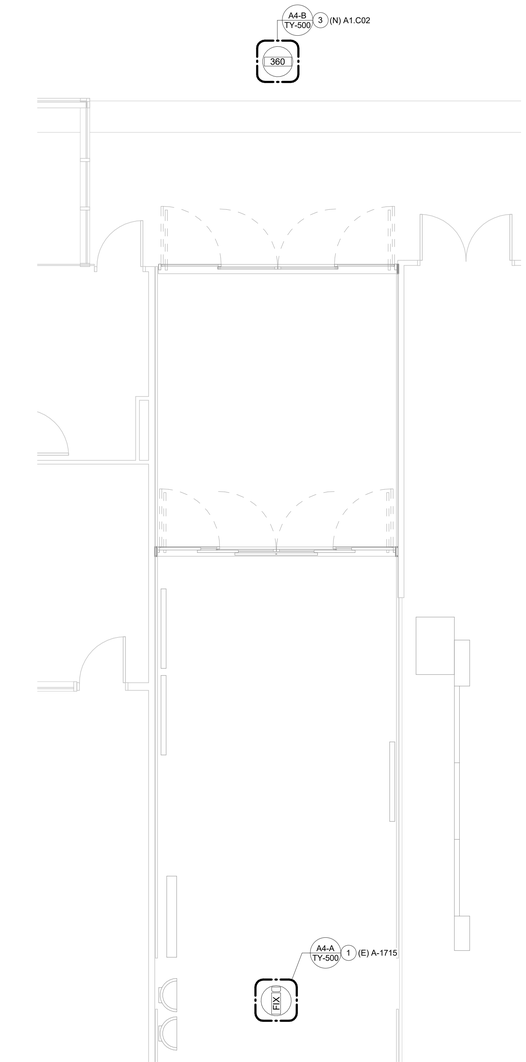
Aconex File Name: I-19-C-925F - TY-141 -

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:



N

A2 SECURITY - NORTH ENTRANCE - ENLARGED DEMO PLAN
SCALE: 1/4" = 1'-0"



N

C2 SECURITY - NORTH ENTRANCE - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SCREENED DEVICES DENOTE EXISTING.
2. COORDINATE WITH HAS IT FOR iPATCH AND NETWORK SWITCH PORT ASSIGNMENTS.

KEY NOTES

1. (N) AXIS P3245-LV INDOOR FIXED CAMERA. PROVIDE (N) CAT 6 CABLE ROUTED VIA 1" CONDUIT TO IDF A.1BL. THE REUSE OF EXISTING CONDUIT IS PERMITTED. REFER TO ONE-LINE DIAGRAM ON SHEET TY-200.
2. REPLACE EXISTING CAMERA WITH NEWER MODEL AT SAME LOCATION. RETURN CAMERA TO OWNER.
3. (N) HONEYWELL HF06GRI 360 CAMERA. PROVIDE (N) CAT 6 CABLE ROUTED VIA 1" CONDUIT TO IDF A.3BL. THE REUSE OF EXISTING CONDUIT IS PERMITTED. REFER TO ONE-LINE DIAGRAM ON SHEET TY-201.

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES ARRIVAL LEVEL

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

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02/03/2023

SHEET NAME: SECURITY - ENLARGED PLANS - LEVEL 1 NORTH

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

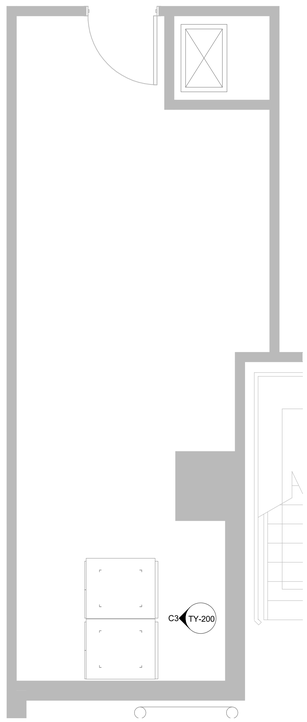
SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - TY-142 -

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

HAS FILE:

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt



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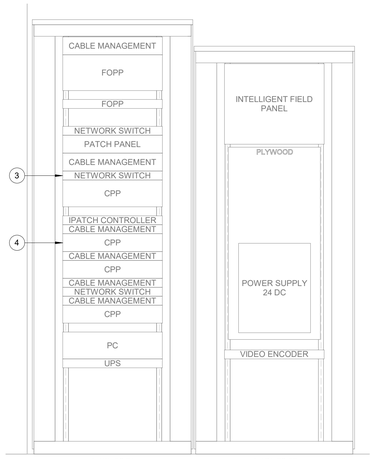
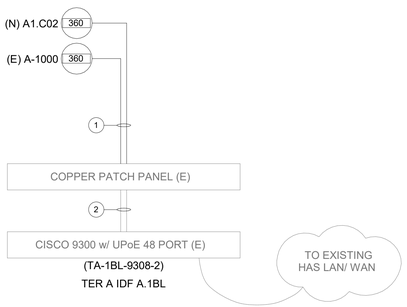
A3 SECURITY - ENLARGED PLAN - IDF A.1BL
SCALE: 3/8" = 1'-0"



C3 SECURITY - CABINET ELEVATION - IDF A.1BL
SCALE: 1" = 1'-0"



A1 SECURITY - ONE LINE DIAGRAM @ IDF A.1BL
SCALE: NTS

GENERAL NOTES:

1. SCREENED DEVICES DENOTE EXISTING.
2. COORDINATE WITH HAS IT FOR iPATCH AND NETWORK SWITCH PORT ASSIGNMENTS.

KEY NOTES

1. CAT 6
2. (E) CAT 6
3. (E) CISCO SWITCH (TA-3BL-9308-3). TERMINATE (N) CAMERAS TO THIS NETWORK SWITCH. REFER TO DETAIL A1/TY-200.
4. (E) COPPER PATCH PANEL (CPP). PROVIDE (N) CAT 6 TO CAMERA LOCATIONS SHOWN ON SHEET TY-142.

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LICENSED PROFESSIONAL ENGINEER
02/03/2023

SHEET NAME: SECURITY - IDF A.1BL ENLARGED PLAN & ELEVATION

SHEET No. TY-200 **SCALE:** As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - TY-200 -

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt
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PLOT DATE:
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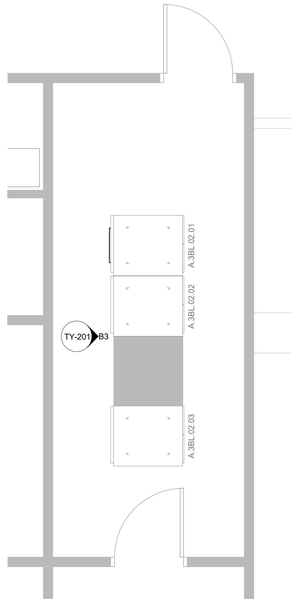
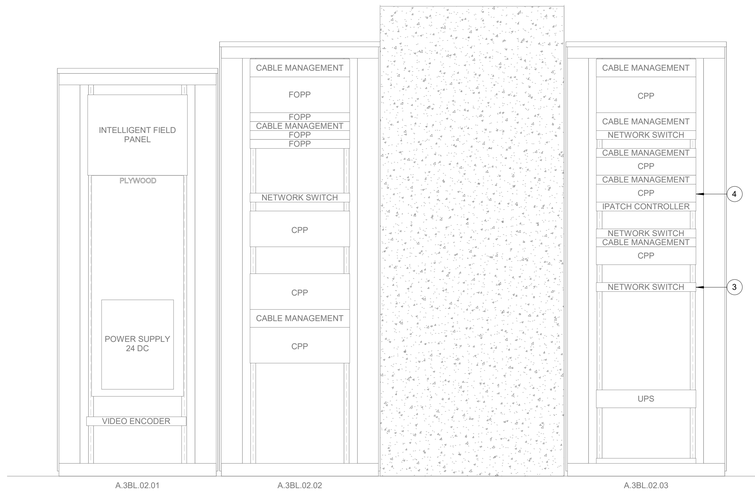
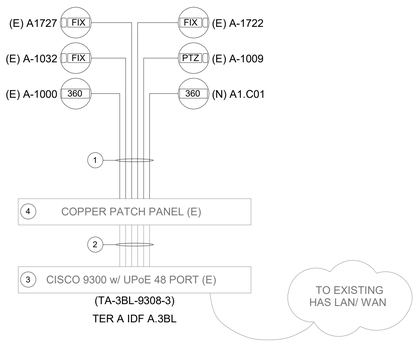


N

A3 SECURITY - ENLARGED PLAN - IDF A.3BL
SCALE: 3/8" = 1'-0"



B3 SECURITY - CABINET ELEVATION - IDF A.3BL
SCALE: 1" = 1'-0"



A1 SECURITY - ONE LINE DIAGRAM @ IDF A.3BL
SCALE: NTS

GENERAL NOTES:

1. SCREENED DEVICES DENOTE EXISTING.
2. COORDINATE WITH HAS IT FOR IPATCH AND NETWORK SWITCH PORT ASSIGNMENTS.

KEY NOTES

1. CAT 6
2. (E) CAT 6
3. EXISTING CISCO SWITCH (TA-3BL-9308-3). TERMINATE (N) CAMERAS TO THIS NETWORK SWITCH. REFER TO DETAIL A1/TY-201.
4. EXISTING COPPER PATCH PANEL (CPP). PROVIDE (N) CAT 6 TO CAMERA LOCATIONS SHOWN ON SHEET TY-140 & TY-141.

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IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES
ARRIVAL LEVEL

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

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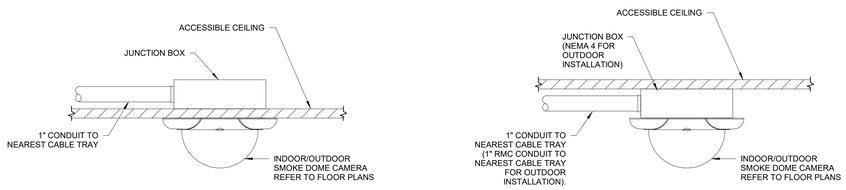
SHEET NAME: SECURITY - IDF A.3BL ENLARGED PLAN & ELEVATION

SHEET No. TY-201 **SCALE:** As indicated

SHEET SIZE: 30"x42" ARCH E1

Aconex File Name: I-19-C-925F - TY-201 -

FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt
HAS FILE:
PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:



A. FLUSH MOUNT

B. SURFACE MOUNT

A4 TYPICAL CAMERA MOUNTING DETAIL- CEILING MOUNT

SCALE: NTS

HOUSTON AIRPORTS

2800 N. TERMINAL RD.
HOUSTON, TEXAS 77032

IAH TERMINAL A - VESTIBULE EFFICIENCY UPGRADES
ARRIVAL LEVEL

C.I.P. No.	PN257A	A.I.P. No.	
C.O.H. No.		D.O.A No.	

RDLR Architects
ARCHITECTURE PLANNING INTERIORS

800 Sampson St. #104
Houston, TX 77003

713.868.3121
www.rdlr.com

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

DESIGNER PROJECT No.:

PROJECT STATUS: 100% CD

REVISIONS

No.	DESCRIPTION	DATE	BY
	95% REVIEW	05/13/2020	PGA
	ISSUE FOR PERMIT	11/20/2020	PGA
	ISSUE FOR CONSTRUCTION	02/03/2023	PGA

DESIGN BY:	JG
DRAWN BY:	DW
CHECKED BY:	RP
ISSUE DATE:	02/03/2023
APPROVED BY:	JG
APPROVAL DATE:	02/03/2023

DIRECTOR of HOUSTON AIRPORT SYSTEM

Review/ Approval Category

IFC

ISSUED FOR PERMIT

STATE OF TEXAS
JOHN GRUENWALD
100039
LICENSED PROFESSIONAL ENGINEER
02/03/2023

SHEET NAME: SECURITY - DETAILS

SHEET No. TY-500 **SCALE:** NTS

SHEET SIZE: 30"x42" ARCH E1

PLOT DATE:
DOA DWG FILE:
OLD DOA No. :
PLOT DATE:
HAS FILE:
FILE PATH: BIM 360://1429.03_TerminalADoors_Arrival/2020.002 - RDLR (TER A DOOR) - PGA.rvt

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