



CITY OF AUSTIN

DEPARTMENT OF AVIATION



AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER IMPROVEMENTS

ABIA PROJECT NO.: LC500

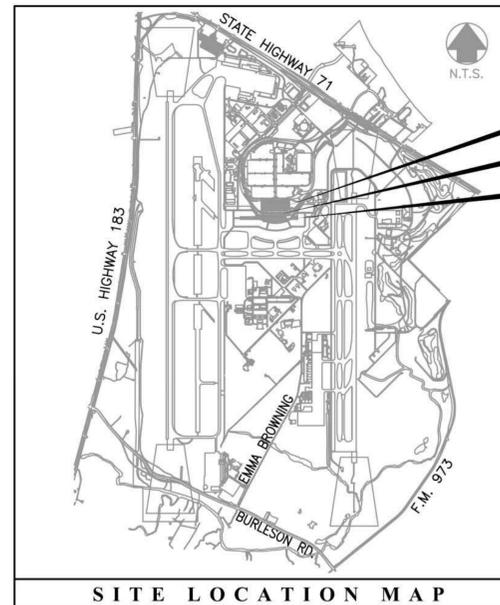
C.I.P. NO. 4912-8107-C500

C.I.P. IDENTIFICATION NO. 6001.107

I.F.B. NO. 6100 CLMC622

BID DOCUMENTS

DATE: SEPTEMBER 12, 2016



PREPARED BY:



RS&H, INC.
8140 N. MOPAC EXPRESSWAY
WESTPARK BUILDING TWO, SUITE 100
AUSTIN, TEXAS 78759
PH 512.279.5427
WWW.RSANDH.COM
T.B.P.E. FIRM NO. 3401

IN ASSOCIATION WITH:



ASSOCIATES
4201 FREDRICH LN, SUITE 110
AUSTIN, TEXAS 78744
PH 512.447.9081 // FX 512.443.3442
HVJ.COM
T.B.P.E. FIRM NO. F-000646



ENCOTECH
ENGINEERING CONSULTANTS
TBPE Firm 8500 Bluffstone Cove, Suite 8-103
1141 Austin, Texas 78759 | 512.338.1101

PROPERTY OWNER:

DEPARTMENT OF AVIATION
2716 SPIRIT OF TEXAS
AUSTIN, TEXAS 78719
512-530-5544

SUBMITTED BY:

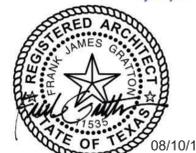
Byron Chavez
08/10/2016
DATE
BYRON CHAVEZ, PE REGISTRATION NO. 112095
RS&H, INC.
SHEETS: G-GI-01, G-SP-01, G-TC-01, C-TC-02, C-DP-01



Chris Rhoades
08/10/2016
DATE
CHRIS RHOADES, PE REGISTRATION NO. 111868
RS&H, INC.
SHEETS: S-GI-01, S-FD-01, S-EL-01, S-EL-02, S-EL-03, S-SC-01, S-SC-02, S-SC-03



Frank Gratton
08/10/2016
DATE
FRANK GRATTON, AIA REGISTRATION NO. 11535
RS&H, INC.
SHEETS: A-GI-01, A-SP-01, A-FP-01, A-EL-01, A-DT-01, A-DT-02, A-DT-03
A-SH-01, A-SH-02



Sharon S. Bickford
08/10/16
DATE
SHARON BICKFORD, PE REGISTRATION NO. 77390
ENCOTECH ENGINEERING CONSULTANTS
SHEETS: E-SP-01, E-FP-01, E-EL-01, E-EL-02, E-DG-01, E-DT-01, M-SP-01



Daniel L. Pohnert
8/10/2016
DATE
DANIEL L. POHNERT, PE REGISTRATION NO. 90684
RS&H, INC.
SHEETS: T-DG-01, T-DT-01



APPROVED BY:

CITY OF AUSTIN, WATERSHED PROTECTION
AND DEVELOPMENT REVIEW DEPARTMENT
DATE

CITY OF AUSTIN FIRE DEPARTMENT
DATE

SITE PLAN/DEVELOPMENT PERMIT NUMBER
DATE

NOTES:

- THIS PROJECT IS LOCATED WITHIN THE ONION CREEK WATERSHED WHICH IS CLASSIFIED AS A SUBURBAN WATERSHED, AND SHALL BE DEVELOPED, CONSTRUCTED, AND MAINTAINED IN ACCORDANCE WITH CHAPTER 25-8 OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.
- NO PORTION OF THIS TRACT IS WITHIN THE 100-YEAR FLOOD PLAIN OF ANY WATERWAY THAT IS WITHIN THE LIMITS OF STUDY OF THE FEDERAL FLOOD INSURANCE ADMINISTRATION FIRM PANEL #48453C0610H, DATED SEPTEMBER 26, 2008 FOR TRAVIS COUNTY, TEXAS.
- THIS PROJECT IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS DEFINED BY THE CITY OF AUSTIN.
- THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO CHANGE OR MODIFY EROSION/SEDIMENTATION CONTROLS, PER SECTION 25-8-183 OF THE CITY OF AUSTIN'S LAND DEVELOPMENT CODE.

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AMERICANS WITH DISABILITIES ACT

THE CITY OF AUSTIN HAS REVIEWED THIS PLAN FOR COMPLIANCE WITH CITY DEVELOPMENT REGULATIONS ONLY. THE APPLICANT, PROPERTY OWNER, AND OCCUPANT OF THE PREMISES ARE RESPONSIBLE FOR DETERMINING WHETHER THE PLAN COMPLIES WITH ALL OTHER LAWS, REGULATIONS, AND RESTRICTIONS WHICH MAY BE APPLICABLE TO THE PROPERTY AND ITS USE.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER/ARCHITECT WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

SITE PLAN RELEASE SHEET X OF XX

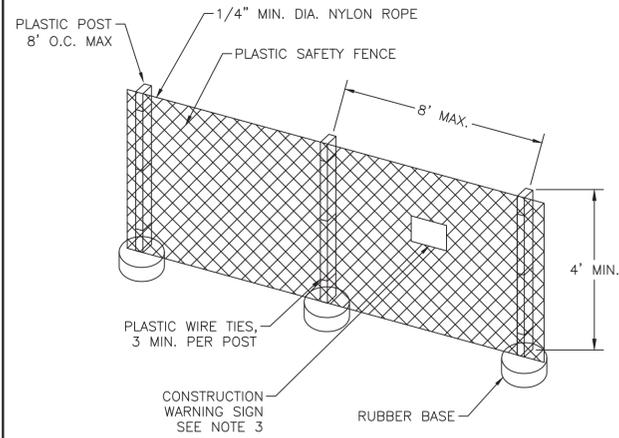
FILE NO.: SP-XXXX-XXXX EXPIRATION DATE: _____
CASE MANAGER: _____ APPLICATION DATE: _____
APPROVED ADMINISTRATIVELY ON: _____
APPROVED BY PLANNING COMMISSION ON: _____
APPROVED BY CITY COUNCIL ON: _____
UNDER SECTION: _____ OF CHAPTER _____ OF THE AUSTIN CITY CODE.

DIRECTOR, WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPT.
DATE OF RELEASE _____ ZONING: _____
REV. 1 _____ CORRECTION 1 _____
REV. 2 _____ CORRECTION 2 _____

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA. INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.

CASE NO: SP-XXXX-XXXX

LC500 BUS SHELTER IMPROVEMENTS

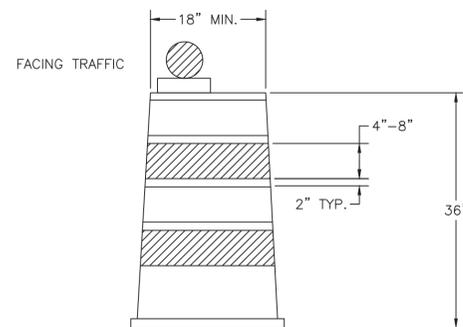


NOTES:

1. SAFETY FENCES SHALL BE USED TO SEPARATE CONSTRUCTION ACTIVITIES FROM PEDESTRIANS AND SHALL BE INSTALLED AS SHOWN ON THE TRAFFIC CONTROL PLANS.
2. ALL SAFETY FENCING SHALL BE PLASTIC, 48" MINIMUM HEIGHT AND ORANGE IN COLOR.
3. CONSTRUCTION WARNING SIGN SHALL BE COMPLIANT WITH OSHA REQUIREMENTS (CFR 1910.145). SIGNS SHALL BE REQUIRED ON ALL SIDES OF CONSTRUCTION FENCING. SIGN SHALL READ THAT HARD HATS ARE REQUIRED IN THIS AREA.

1
C-TC-02
NTS
PORTABLE SAFETY FENCE

NOT USED



2
C-TC-02
NTS
CHANNELIZING DEVICE (TRAFFIC DRUM)

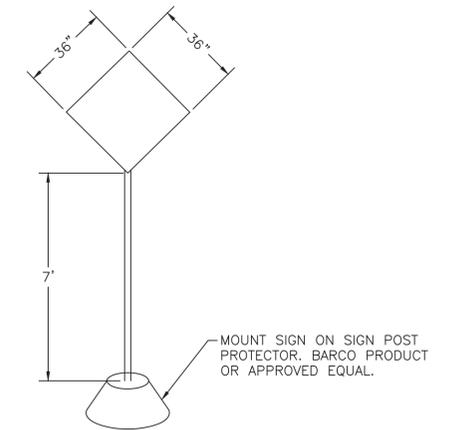
NOT USED

NOTES:

1. ALL CHANNELIZING DEVICES SHALL HAVE WARNING LIGHTS OR LARGE REFLECTORS WHEN USED AT NIGHT. FLASHING WARNING LIGHTS MAY BE PLACED ON CHANNELIZING DEVICES USED SINGULARLY OR IN GROUPS TO MARK A SPOT CONDITION. WARNING LIGHTS ON CHANNELIZING DEVICES USED IN A SERIES SHALL BE STEADY-BURN. CHANNELIZING DEVICES IN TAPERS AT NIGHT SHALL HAVE TYPE C WARNING LIGHTS.
2. THE RETROREFLECTIVE MATERIAL USED ON CHANNELIZING DEVICES SHALL HAVE A SMOOTH, SEALED OUTER SURFACE.
3. THE NAME AND TELEPHONE NUMBER OF THE AGENCY, CONTRACTOR OR SUPPLIER SHALL BE SHOWN ON THE NON-RETROREFLECTIVE SURFACE OF ALL CHANNELIZING DEVICES. THE LETTERS AND NUMBERS SHALL BE A NON-REFLECTIVE COLOR AND NOT OVER 2" IN HEIGHT.
4. PARTICULAR ATTENTION SHOULD BE GIVEN TO ASSURE THAT CHANNELIZING DEVICES ARE MAINTAINED AND KEPT CLEAN, VISIBLE AND PROPERLY POSITIONED AT ALL TIMES. DEVICES SHALL BE REPLACED THAT ARE DAMAGED AND HAVE LOST A SIGNIFICANT AMOUNT OF THEIR RETROREFLECTIVITY AND EFFECTIVENESS.
5. DRUMS USED FOR TRAFFIC WARNING OR CHANNELIZATION SHALL BE CONSTRUCTED OF LIGHT-WEIGHT FLEXIBLE AND DEFORMABLE MATERIALS AND BE A MINIMUM OF 36" IN HEIGHT, AND HAVE AT LEAST 18" MINIMUM WIDTH, REGARDLESS OF ORIENTATION. STEEL DRUMS SHALL NOT BE USED. THE MARKINGS ON DRUMS SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 4" TO 8" WIDE. EACH DRUM SHALL HAVE A MINIMUM OF TWO (2) ORANGE AND TWO (2) WHITE STRIPES. ANY NON-RETROREFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES, SHALL NOT EXCEED 2" WIDE. DRUMS SHALL HAVE CLOSED TOPS THAT WILL NOT ALLOW COLLECTION OF ROADWORK OR OTHER DEBRIS.
6. DRUMS SHOULD NOT BE WEIGHTED WITH SAND, WATER OR ANY MATERIAL TO AN EXTENT THAT WOULD BE HAZARDOUS TO MOTORISTS, PEDESTRIANS OR WORKERS. BALLAST SHALL NOT BE PLACED ON TOP OF THE DRUM.

3
C-TC-02
NTS
CHANNELIZING DEVICE (TRAFFIC DRUM) NOTES

NOT USED



NOTES:

1. SIGN POST PROTECTOR SHALL HAVE 4" DIAMETER POST HOLE, BE A HEIGHT OF 22" WITH A BOTTOM DIAMETER OF 26".
2. SIGN BASE PROTECTOR SHALL BE CAPABLE OF BEING FILLED WITH SAND TO HELP SECURE THE SIGN FROM TIPPING.
3. LETTERS FOR SIGN SHALL BE A MINIMUM OF 5" IN HEIGHT.

4
C-TC-02
NTS
TRAFFIC CONTROL SIGNS

NOT USED

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.



RS&H, Inc.
8140 N. MoPac Expressway Westpark
Building Two, Suite 100
Austin, Texas 78759
(512)279-5427
WWW.RSANDH.COM
REGISTERED FIRM NUMBER: 3401

BID DOCUMENTS



**Austin-Bergstrom
International Airport**

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER IMPROVEMENTS

ABIA Project No.: LC500

Permit Issue No.:

AIP/CIP Nos.: 6001.107

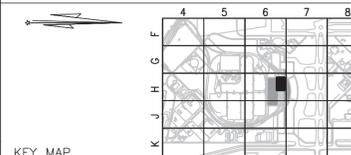
No. Date

Issue Description

By

DRAWING DESCRIPTION:

TRAFFIC CONTROL DETAILS



JOB NO.: 2150147.012
DRAWN BY: JBC
CHECKED BY: EN
COORD. CHECK: BMLS
FILE NAME: LC500-C-TC-02
DATE: 26SEP16
SCALE: NTS
SHEET NO.

C-TC-02

05 OF 32

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA:

- ALL WORK TO CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE AND THE ASCE 7-10.
- DEAD LOAD:
EXTERIOR PANELS & ATTACHMENT 5 PSF
- GROUND SNOW LOAD Pg = 0 PSF
SNOW EXPOSURE FACTOR Ce = 1.0
SNOW LOAD IMPORTANCE FACTOR Is = 1.0

THERMAL FACTOR Ct = 1.0
FLAT ROOF SNOW LOAD Pf = 0 PSF
- WIND DESIGN DATA (PER ASCE 7-10):
ULTIMATE DESIGN WIND SPEED, Vult (3-SECOND GUST) 115 MPH
NOMINAL DESIGN WIND SPEED, Vasd (3-SECOND GUST) 89 MPH
BUILDING RISK CATEGORY II
WIND EXPOSURE B
GUST FACTOR 1.0
DESIGN WIND PRESSURE ±35 PSF

GENERAL STRUCTURAL NOTES

- THE STRUCTURAL NOTES SHALL GOVERN IN MATTERS COVERED ON THE STRUCTURAL DRAWINGS. SEE OTHER DRAWINGS FOR FURTHER REQUIREMENTS. TOTAL PROJECT DEFINITION WILL BE PROVIDED BY COMBINING ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWING PACKAGES.
- THE EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM LIMITED VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRECEDING WITH WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL EXCEPTIONS TO THE ASSUMED CONDITIONS.
- TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHOULD INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS, WIND LOADS, ETC.
- FOR TYPICAL DETAILS SHOWN BUT NOT BE REFERRED TO EXCEPT HEREIN, CONFORM TO ALL OF THE REQUIREMENTS OF THESE DETAILS TO THE SAME EXTENT AS IF REFERRED TO BY DETAIL NUMBER.
- VERIFY ALL EXISTING CONDITIONS OF EXISTING SITE AND STRUCTURE THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION. FIELD VERIFY ALL EXISTING FINISH FLOOR ELEVATIONS AND MATCH EXISTING ELEVATIONS WITH ADJACENT NEW FLOOR CONSTRUCTION. FIELD VERIFY ALL DIMENSIONS OF EXISTING STRUCTURE ADJACENT TO NEW WORK AND COORDINATE ALL DISCREPANCIES WITH CONTRACT DOCUMENTS PRIOR TO FABRICATION AND CONSTRUCTION.

STRUCTURAL STEEL NOTES:

- DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE STEEL CONSTRUCTION MANUAL 14TH EDITION, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND THE STRUCTURAL WELDING CODE (AWS D1.1), LATEST EDITION, BY THE AMERICAN WELDING SOCIETY.
- ALL STEEL IS DESIGNATED AS EITHER CATEGORY AESS-1 OR AESS-2. SEE SPEC 05121 FOR MORE INFORMATION.
- STRUCTURAL HSS SHALL CONFORM TO ASTM A500 gr C, (Fy = 50 KSI). ALL OTHER STRUCTURAL STEEL SHALL CONFORM WITH ASTM A36, (Fy=36 KSI) EXCEPT AS OTHERWISE NOTED ON THE DRAWINGS.
- ALL STRUCTURAL SHOP AND FIELD WELDING SHALL BE MADE WITH ELECTRODES DESIGNATED BY E70XX LOW HYDROGEN AND SHALL BE PERFORMED BY CERTIFIED WELDERS.
- ALL WELDS ARE TO BE PER A.W.S.D1.1 CODE. (LATEST ED.) ALL WELDS SHALL BE 3/16" MINIMUM FILLET WELDS U.O.N. OR AS REQUIRED BY A.I.S.C.
- ALL EMBED PLATES AND ANCHORS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- ALL LOCATIONS THAT ARE FIELD WELDED SHALL RECEIVE FIELD APPLIED ZINC RICH PRIMER AND A TOP COAT TO MATCH ADJACENT PAINT.
- ALL WELDS SHOWN AS FIELD WELDS MAY BE SHOP WELDS AT CONTRACTORS OPTION.
- STEEL FRAMING BELOW T/SLAB SHALL BE PAINTED TO THE SAME QUALITY AS THE STEEL ABOVE THE SLAB.

CONCRETE AND REINFORCING NOTES

- ALL CONCRETE WORK SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (CURRENT EDITION ACI 318).
- UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

GRADE BEAMS AND GROUND SLABS 3" BOTT; 1 1/2" TOP
FOOTINGS 3" TOP. & BOTT.
DRILLED SHAFTS 3"
- ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH THE CURRENT EDITIONS OF THE CRSI MANUAL OF STANDARD PRACTICE AND ACI 531 DURING THE PLACING OF THE CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL LAP SPLICES SHALL BE 48 BAR DIAMETERS MIN., WITH 65 BAR DIAMETERS FOR TOP BARS.
- SEE ARCHITECTURAL AND ELECTRICAL PLANS FOR CAST IN PLACE BOLTS, INSERTS, ANCHORS, ETC. AND FOR ALL SLAB BLOCK-OUTS, SLOPES, DEPRESSIONS, SLEEVES, ETC.
- WELDED REINFORCEMENTS SHALL CONFORM TO AWS D1.4.
- ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, UNLESS OTHERWISE NOTED.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.
- 28 DAY COMPRESSIVE STRENGTH OF ALL CONCRETE SHALL BE: f'c = 4000 PSI UNO, AND CONFORM TO CLASS S5 PER CONC. SPEC 403S.

FOUNDATION NOTES:

- PROVIDE ALL TEMPORARY BRACING AND OTHER MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION.
- REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE.
- ALL FOUNDATION WORK SHALL BE INSPECTED AND APPROVED FOR REQUIRED SOIL BEARING CAPACITY BY A COMPETENT SOILS ENGINEER OR THEIR REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE.
- SEE FOUNDATION PLAN FOR ADDITIONAL NOTES.
- SHELTER SHALL BEAR ON DRILLED PIERS AND SPREAD FOOTINGS. DESIGNED IN ACCORDANCE W/ GEOTECHNICAL REPORT NO. AG 14 13542.1 BY HJV ASSOCIATES DATED 7/15/16.
- SOIL CLASSIFICATION IS GRAVELLY LEAN CLAY W/ SAND (CL).
- ALLOWABLE BEARING PRESSURE UNDER DRILLED PIERS = 22 ksf. SKIN FRICTION = 940psf/ft.
- ALLOWABLE BEARING PRESSURE AT SPREAD FOOTINGS = 2900 psf.
- PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.

SYMBOLS & ABBREVIATIONS

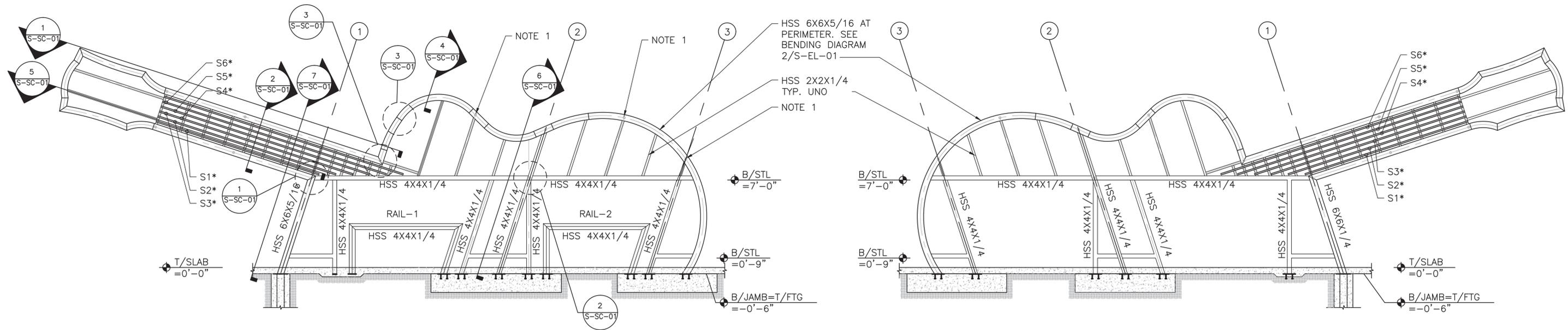
A	ANCHOR	HDG	HOT DIPPED GALVANIZED
ARCH	ARCHITECTURAL	HSS	HOLLOW STEEL SECTION
		HT	HEIGHT
B	BOTTOM	JT	JOINT
BLDG	BUILDING		
BM	BEAM		
BRG	BEARING	LLV	LONG LEG VERTICAL
CL	CENTER LINE	MAX	MAXIMUM
CLR	CLEAR	MFR	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM
CONC	CONCRETE		
CONN	CONNECTION	OC(O.C.)	ON CENTER
CONT	CONTINUOUS		
DEMO	DEMOLITION	PL	PLATE
DET	DETAIL	REINF	REINFORCEMENT
DN	DOWN		
EA	EACH	STD	STANDARD
EIFS	EXTERIOR INSULATION FINISHING SYSTEM	STL	STEEL
		STRUCT.	STRUCTURAL
EJ	EXPANSION JOINT	T	TOP
EL	ELEVATION	T+B	TOP AND BOTTOM
EMBED	EMBEDMENT	TH	THICK
EOR	ENGINEER OF RECORD	TYP	TYPICAL
EXIST	EXISTING		
EXP	EXPANSION	UNO	UNLESS NOTED OTHERWISE
FIN	FINISH	VERT	VERTICAL
GR	GRADE	W/	WITH
		WF	WIDE FLANGE



BID DOCUMENTS



AUSTIN-BERGSTROM INTERNATIONAL AIRPORT				BUS SHELTER IMPROVEMENTS		DRAWING DESCRIPTION:		GENERAL INFORMATION	
ABIA Project No.:LC500				Permit Issue No.:00000		AIP/CIP Nos.: 6001.107			
								JOB NO.: 2150147.012 DRAWN BY: TEA CHECKED BY: CGR COORD. CHECK: BC FILE NAME: S-FD-01.dwg DATE: 27MAY16 SCALE: N.T.S. SHEET NO.	
								S-GI-01	
								07 OF 32	



1 SOUTH ELEVATION
S-EL-01 SCALE: 1/4" = 1'-0"

*REFER TO "STRING" LENGTH TABLE ON THIS SHEET FOR MEMBER LENGTHS.

2 NORTH ELEVATION
S-EL-01 SCALE: 1/4" = 1'-0"

NOTE: NORTH ELEVATION IS OPPOSITE HAND TO THE SOUTH ELEVATION. SEE SOUTH ELEVATION FOR APPLICABLE SECTION CUTS.

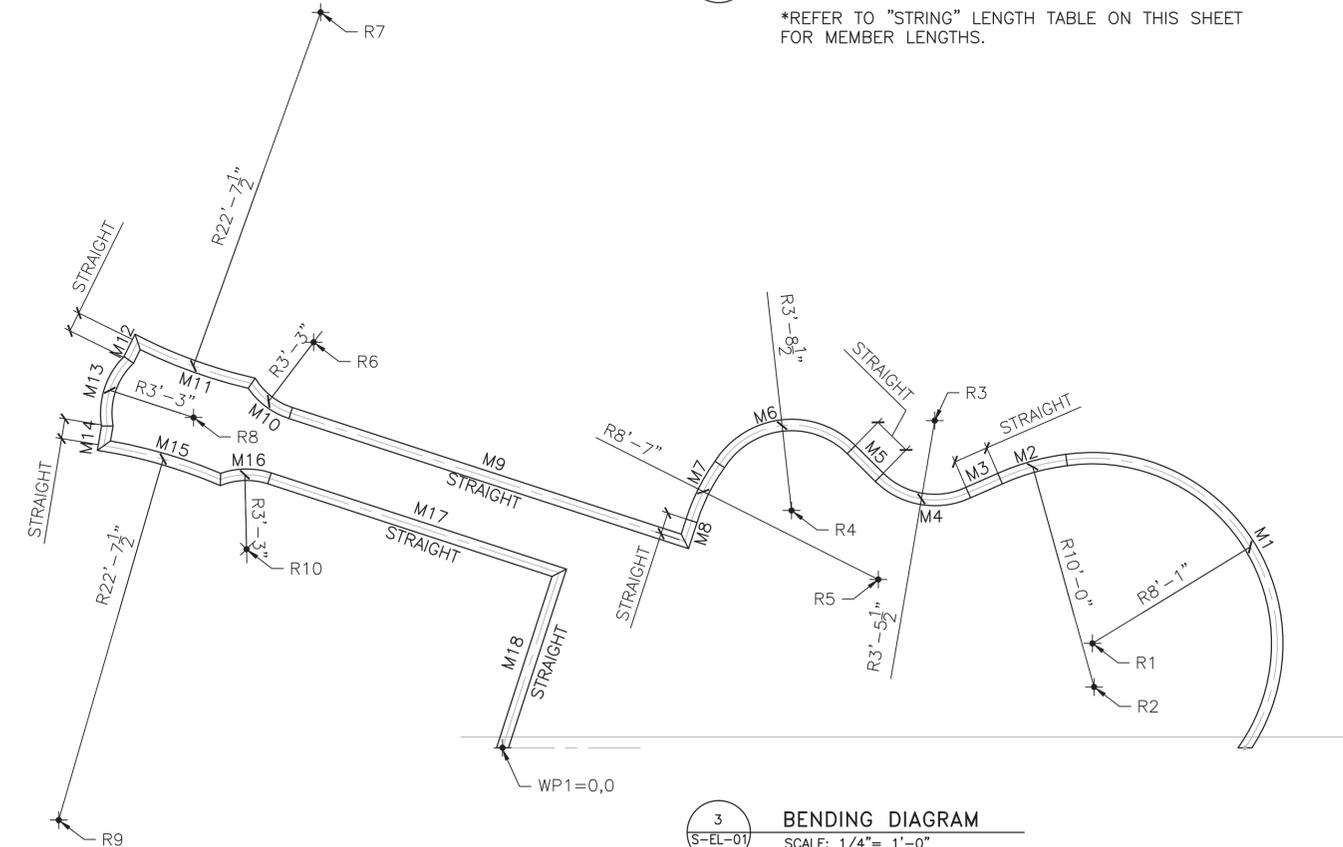
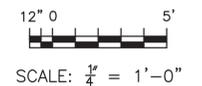
*REFER TO "STRING" LENGTH TABLE ON THIS SHEET FOR MEMBER LENGTHS.

"STRING" LENGTH	
MARK	LENGTH
S1	13'-8 1/2"
S2	15'-0"
S3	16'-3 1/2"
S4	17'-7"
S5	18'-10"
S6	20'-1 1/2"

BENDING DIAGRAM COORDINATE TABLE**				
MARK	CENTER OF ARC	X	Y	ARC LENGTH/MEMBER LENGTH*
M1	R1	25'-9 13/16"	4'-6 11/16"	18'-10"
M2	R2	25'-10 5/8"	2'-7 7/8"	3'-0 1/2"
M3	--	--	--	1'-6"
M4	R3	18'-11"	14'-3 3/8"	4'-2 1/2"
M5	--	--	--	1'-8"
M6	R4	12'-7 13/16"	10'-4 5/16"	6'-7 1/2"
M7	R5	16'-5 5/16"	7'-4 1/8"	2'-9"
M8	--	--	--	11 1/2"
M9	--	--	--	18'-2 1/2"
M10	R6	-8'-3 3/16"	17'-8 7/16"	2'-2"
M11	R7	-7'-11 1/2"	32'-1 1/4"	5'-4"
M12	--	--	--	10"
M13	R8	-13'-6 1/4"	14'-5"	3'-2"
M14	--	--	--	10"
M15	R9	-19'-5"	-3'-1 7/8"	5'-4"
M16	R10	-11'-2 7/16"	8'-8 1/16"	2'-2"
M17	--	--	--	13'-7"
M18	--	--	--	7'-10 3/8"

*X,Y COORDINATES ARE SPECIFICALLY USED TO CALL OUT THE RADIUS OF EACH ARCH SEGMENT.

- NOTES:
- HSS 2X2X1/4 HORIZONTAL BRACE BETWEEN N + S ELEVATIONS OF GUITAR.
 - NORTH ELEVATION IS OPPOSITE HAND TO THE SOUTH ELEVATION. SEE SOUTH ELEVATION FOR APPLICABLE SECTIONS CUTS.
 - MEMBERS M1-M8 MAY BE BENT AS A CONTINUOUS MEMBER IN LIEU OF MULTIPLE PIECES SPLICED TOGETHER.
 - ALL DIMENSIONS SHOWN ARE TO THE CENTERLINE OF THE MEMBER.
 - HIDDEN LINES OF HSS SIDEWALLS NOT SHOWN FOR CLARITY.



3 BENDING DIAGRAM
S-EL-01 SCALE: 1/4" = 1'-0"

NOTE: MEMBERS M1-M8 MAY BE BENT AS A CONTINUOUS MEMBER IN LIEU OF MULTIPLE PIECES SPLICED TOGETHER.



RS&H, Inc.
8140 N. MoPac Expressway Westpark
Building Two, Suite 100
Austin, Texas 78759
(512)279-5427
WWW.RSANDH.COM
REGISTERED FIRM NUMBER: 3401

BID DOCUMENTS



Austin-Bergstrom
International Airport

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER IMPROVEMENTS

ABIA Project No.: LC500

Permit Issue No.: 00000

AIP/CIP Nos.: 6001.107

No. Date

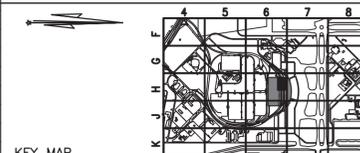
Issue Description

By

KEY MAP

DRAWING DESCRIPTION:

ELEVATIONS

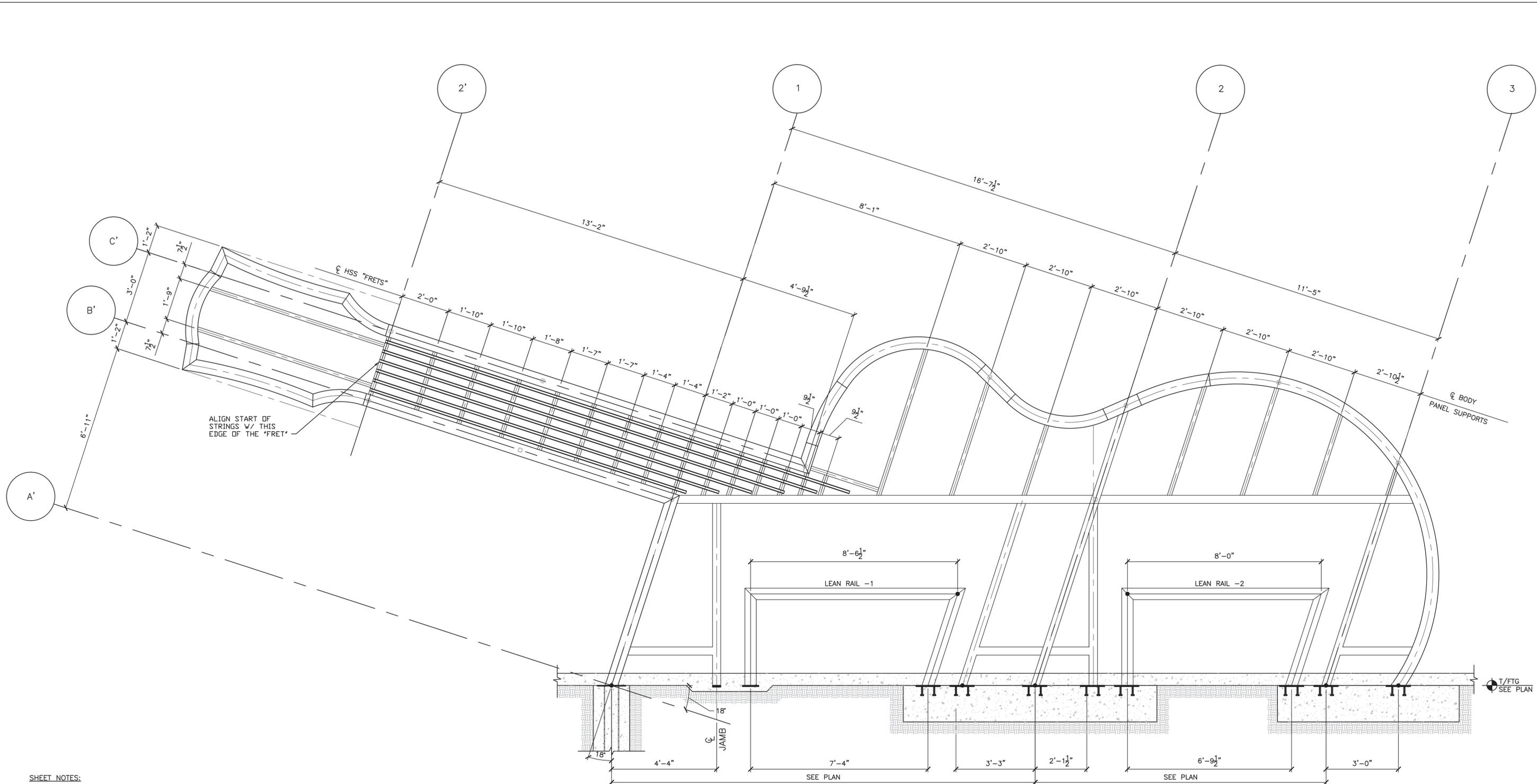


JOB NO.: 2150147.012
DRAWN BY: TEA
CHECKED BY: CGR
COORD. CHECK: BC
FILE NAME: S-EL-01.dwg
DATE: 27MAY16
SCALE: 1/4" = 1'-0"
SHEET NO.

S-EL-01

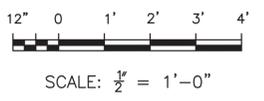
09 OF 32

SP-20XX-XXXX



- SHEET NOTES:**
1. SOUTH ELEVATION SHOWN, NORTH ELEVATION MIRRORED ABOUT VERT. AXIS.
 2. LEAN RAILS AND STEEL SHEET SUPPORT BRACKETS SHOWN ONLY APPLY TO SOUTH ELEVATION.
 3. HIDDEN LINES OF HSS SIDEWALLS NOT SHOWN FOR CLARITY.

1
S-EL-02
DIMENSIONAL PLAN
SCALE: 1/2" = 1'-0"



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REGISTERED FIRM NUMBER: 3401

BID DOCUMENTS

**Austin-Bergstrom
International Airport**

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER IMPROVEMENTS

ABIA Project No.: LC500 Permit Issue No.: 00000 AIP/CIP Nos.: 6001.107

No.	Date	Issue Description	By

DRAWING DESCRIPTION:

DIMENSIONAL ELEVATION

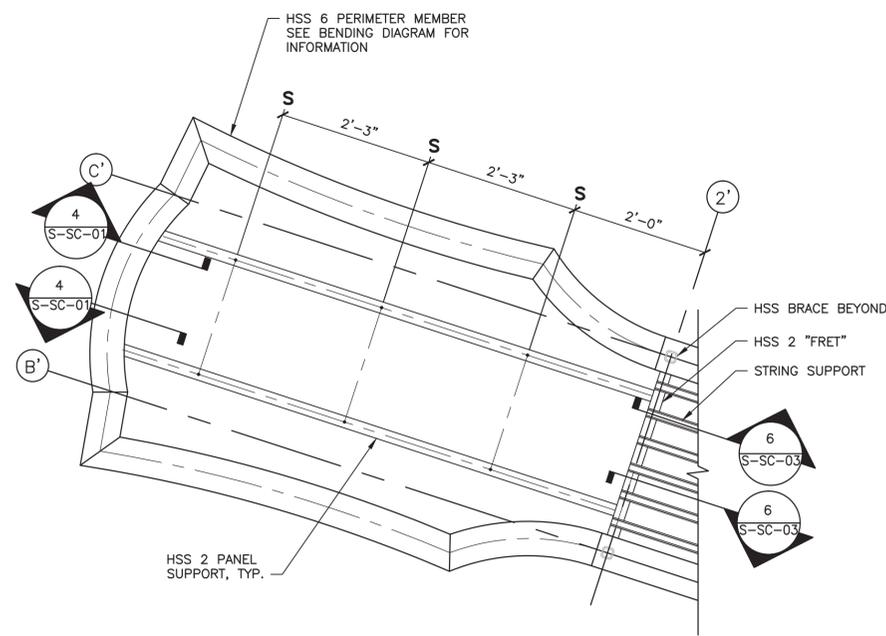
KEY MAP

JOB NO.: 2150147.012
DRAWN BY: TEA
CHECKED BY: CGR
COORD. CHECK: BC
FILE NAME: S-EL-02.dwg
DATE: 27MAY16
SCALE: 1/2" = 1'-0"
SHEET NO.

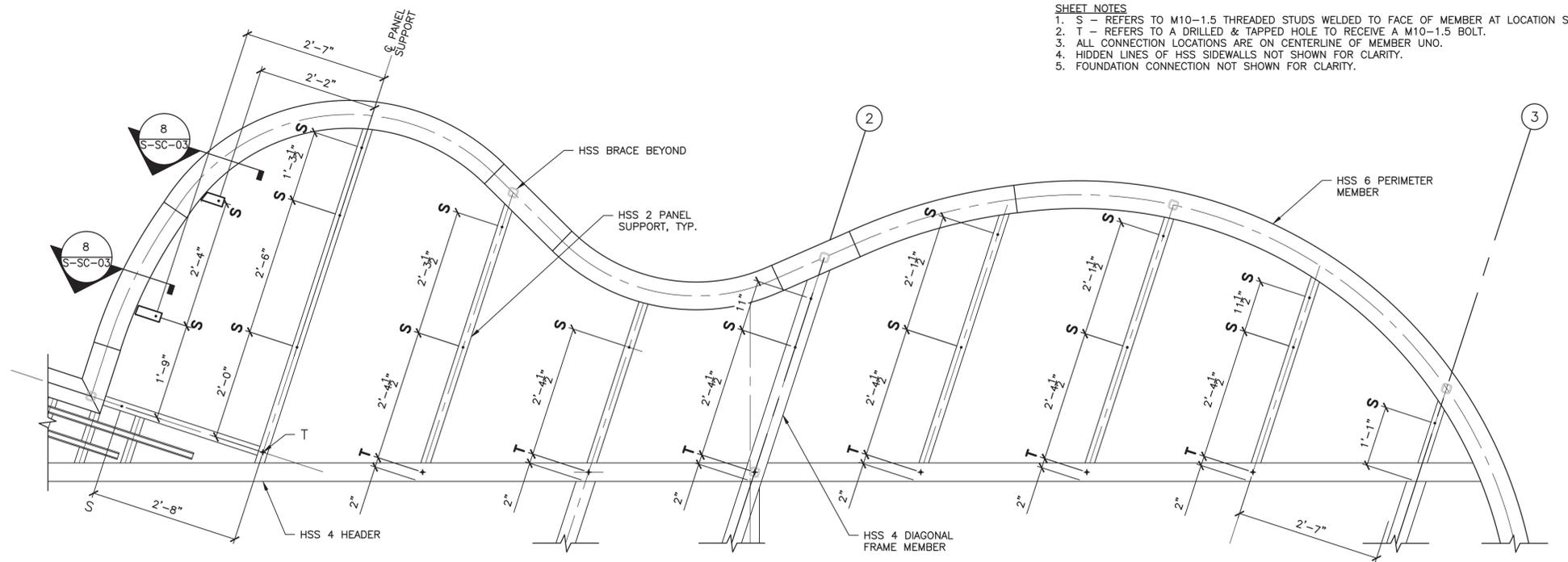
S-EL-02

10 OF 32

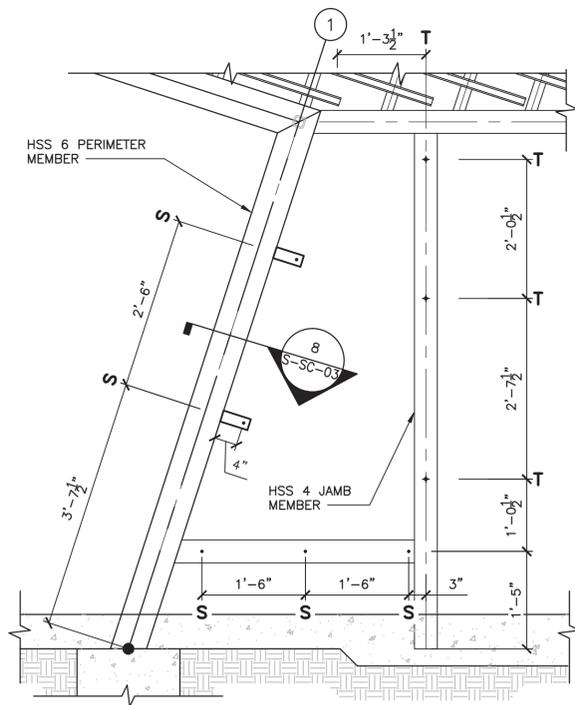
SHEET NOTES
 1. S - REFERS TO M10-1.5 THREADED STUDS WELDED TO FACE OF MEMBER AT LOCATION SHOWN.
 2. T - REFERS TO A DRILLED & TAPPED HOLE TO RECEIVE A M10-1.5 BOLT.
 3. ALL CONNECTION LOCATIONS ARE ON CENTERLINE OF MEMBER UNO.
 4. HIDDEN LINES OF HSS SIDEWALLS NOT SHOWN FOR CLARITY.
 5. FOUNDATION CONNECTION NOT SHOWN FOR CLARITY.



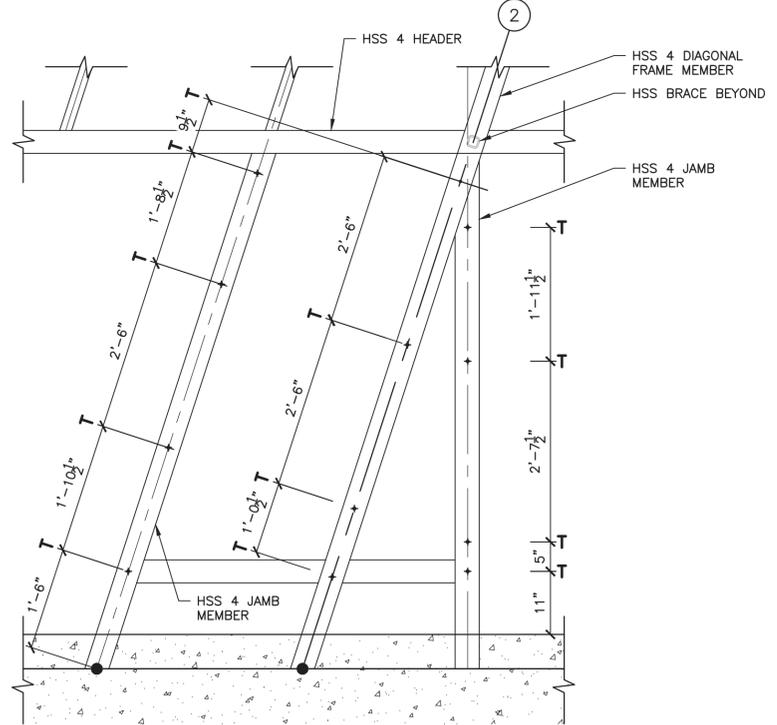
1 PANEL ATTACHMENT LOCATION
 S-EL-03 SCALE: 3/4" = 1'-0"



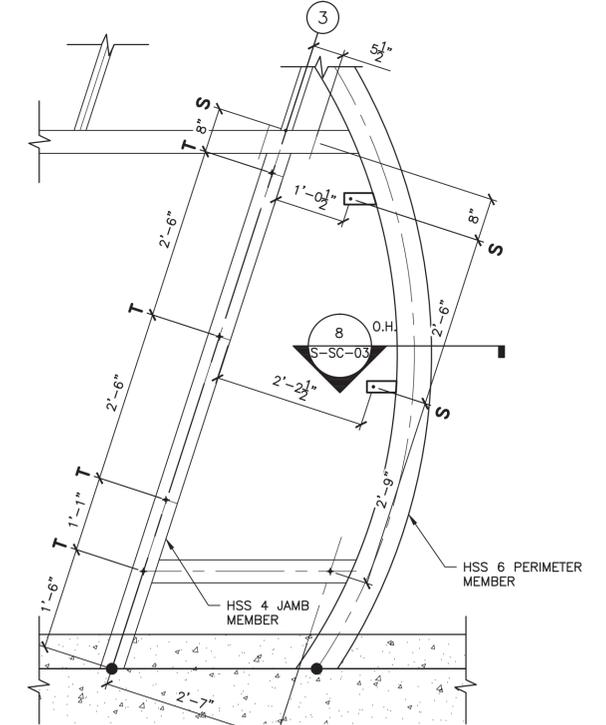
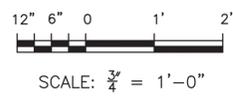
2 PANEL ATTACHMENT LOCATION
 S-EL-03 SCALE: 3/4" = 1'-0"



3 PANEL ATTACHMENT LOCATION
 S-EL-03 SCALE: 3/4" = 1'-0"
 * SHEET STEEL BRACKETS NOT SHOWN FOR CLARITY.



4 PANEL ATTACHMENT LOCATION
 S-EL-03 SCALE: 3/4" = 1'-0"



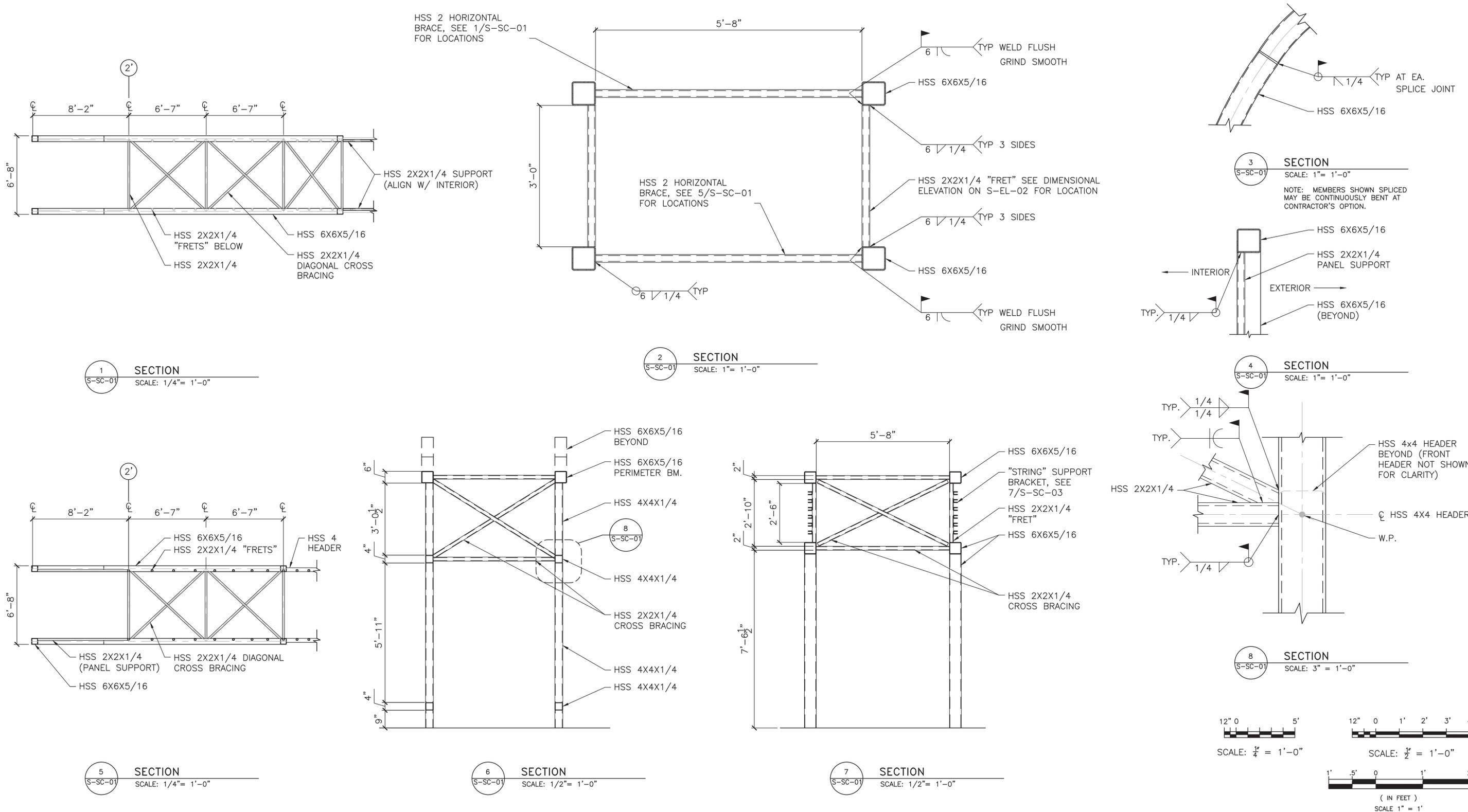
5 PANEL ATTACHMENT LOCATION
 S-EL-03 SCALE: 3/4" = 1'-0"
 * SHEET STEEL BRACKETS NOT SHOWN FOR CLARITY.

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BID DOCUMENTS
 STATE OF TEXAS
 CHRISTOPHER RHOADES
 111888
 PROFESSIONAL ENGINEER
 8/10/2016

Austin-Bergstrom International Airport

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT				DRAWING DESCRIPTION:		JOB NO.: 2150147.012	
BUS SHELTER IMPROVEMENTS				DONUT LOCATIONS		DRAWN BY: TEA	
ABIA Project No.: LC500				KEY MAP		CHECKED BY: CGR	
Permit Issue No.: 00000				No. Date Issue Description By		COORD. CHECK: BC	
AIP/CIP Nos.: 6001.107						FILE NAME: S-EL-03.dwg	
						DATE: 27MAY16	
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						S-EL-03	
						11 OF 32	
						SP-20XX-XXXXX	



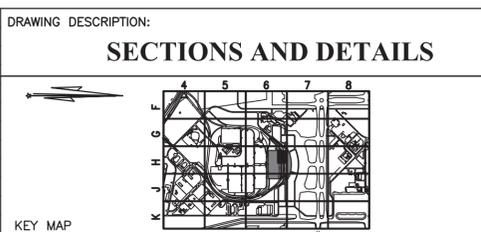
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WWW.RSANDH.COM
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BID DOCUMENTS
STATE OF TEXAS
CHRISTOPHER RHOADES
111888
PROFESSIONAL ENGINEER
8/10/2016

Austin-Bergstrom International Airport

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT
BUS SHELTER IMPROVEMENTS
ABIA Project No.: LC500 Permit Issue No.: 00000 AIP/CIP Nos.: 6001.107

No.	Date	Issue Description	By



JOB NO.: 2150147.012
DRAWN BY: TEA
CHECKED BY: CGR
COORD. CHECK: BC
FILE NAME: S-SC-01.dwg
DATE: 27MAY16
SCALE: VARIES
SHEET NO.
S-SC-01
12 OF 32

PROJECT GENERAL NOTES:

- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES.
- REFER TO CIVIL, ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND SIGNAGE DRAWINGS AND SPECIFICATIONS FOR COORDINATION OF WORK.
- EACH CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND BECOME KNOWLEDGEABLE OF CONDITIONS THEREIN. EACH TRADE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL THE REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY CONDITIONS REQUIRING INFORMATION BEFORE PROCEEDING WITH THE WORK.
- THE SUBCONTRACTORS SHALL PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS AND REPAIR OR REPLACE ELEMENTS DAMAGED DURING THE PROJECT.
- ANY UTILITY SHUT-OFFS AS REQUIRED BY THE CONTRACTOR FOR COMPLETION OF THE WORK SUCH AS ELECTRICAL, GAS, WATER, SEWER, STEAM, ETC. MUST BE SCHEDULED WITH THE OWNER 72 HOURS PRIOR TO COMMENCING THE WORK.
- DRAWINGS ARE TO BE ISSUED TO THE SUBCONTRACTORS IN COMPLETE SETS SO THAT THE EXTENT AND COORDINATION OF THE WORK IS MADE POSSIBLE.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED.
- WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
- DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS SHALL BE VERIFIED ON THE SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- UNLESS NOTED OTHERWISE, WELDED CONNECTIONS SHALL BE GROUND SMOOTH AND PAINTED PER ARCHITECT/ENGINEER RECOMMENDATION
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER BY GASKETS OR COATINGS OR BOTH TO AVOID GALVANIC CORROSION ACTION.
- ALL FERROUS METAL WORK SHALL BE ZINC-PRIMER COATED AND PAINTED.
- PROVIDE A 6'-11" MINIMUM HEADROOM CLEARANCE IN ALL EXIT PASSAGES AT ALL LOCATIONS.
- THE EXTENT OF THE WORK SHOWN ON THE PLANS AND DETAILS REFLECTS THE BEST JUDGEMENT OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND ADVISE THE ARCHITECT IN WRITING OF ANY SITUATION THAT WOULD NOT ALLOW HIM TO PROCEED ON THE BASIS OF THESE DOCUMENTS.
- THE ARCHITECT/ENGINEER SELECTION OF MATERIALS AND DETAILS DOES NOT RELIEVE THE CONTRACTOR FROM VERIFYING THE MATERIAL SUPPLIERS THAT THE PROPOSED MATERIALS ARE CORRECT AND PROPER FOR THE INTENDED APPLICATION AND USE.
- REFER TO LIFE SAFETY DRAWINGS FOR THE FIRE PROTECTIVE REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH CIVIL/STRUCTURAL FOUNDATION DOCUMENTS
- CONTRACTOR SHALL COORDINATE WITH SIGNAGE DOCUMENTS
- THE CONTRACTOR SHALL, AT ALL TIMES, MAINTAIN THE SAFETY, HEALTH, COMFORT AND SECURITY OF ALL PASSENGERS, EMPLOYEES, TENANTS AND AIRPORT PERSONNEL DURING THE COURSE OF THE PROJECT
- DO NOT SCALE UNKNOWN DIMENSIONS, OBTAIN THOSE IN WRITING FROM ARCHITECT.

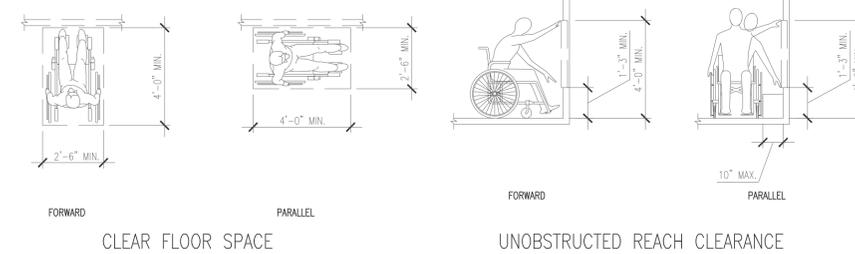
MATERIALS USED:

-  CONCRETE
-  STEEL
-  ACRYLIC PANEL
-  NEOPRENE GASKET

APPLICABLE BUILDING CODES AND AUTHORITIES:

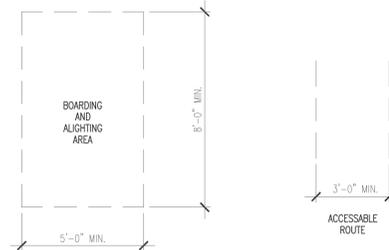
2012 INTERNATIONAL BUILDING CODE
 2012 INTERNATIONAL FIRE CODE
 2009 INTERNATIONAL ENERGY CONSERVATION CODE
 2011 NATIONAL ELECTRIC CODE
 2012 TEXAS ACCESSIBILITY STANDARDS (TAS)
 LOCAL AMENDMENTS TO THE ABOVE-LISTED CODES MAY BE VIEWED ON THE DEVELOPMENT SERVICES DEPARTMENT WEBSITE: WWW.AUSTINTEXAS.GOV/DEPARTMENT/DEVELOPMENT-SERVICES
 NOTE: THERE ARE NO CHANGES THAT WILL IMPACT BUILDING OCCUPANCY OR CLASSIFICATION.

ACCESSIBILITY CLEARANCES:



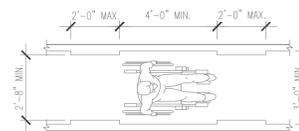
CLEAR FLOOR SPACE

UNOBSTRUCTED REACH CLEARANCE

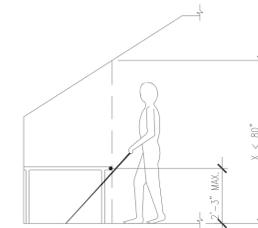


BOARDING AND ALIGHTING CLEARANCES

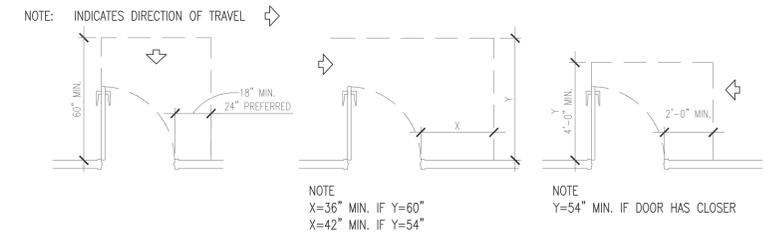
U-TURN AND PASSING SPACES



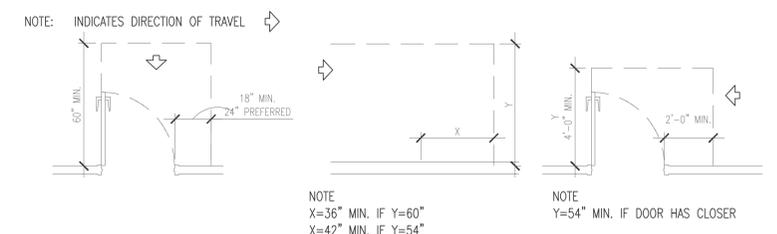
CLEAR WIDTH OF AN ACCESSIBLE ROUTE



VERTICAL CLEARANCE

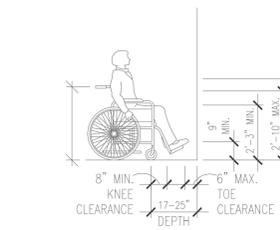


PUSH SIDE DOOR CLEARANCE

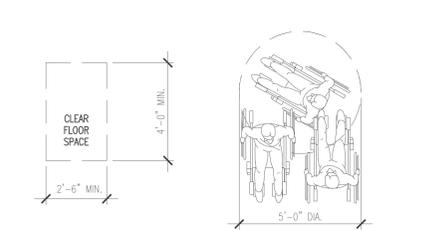


PUSH SIDE DOOR CLEARANCE

PUSH SIDE DOOR CLEARANCE



BOARDING AND ALIGHTING CLEARANCES

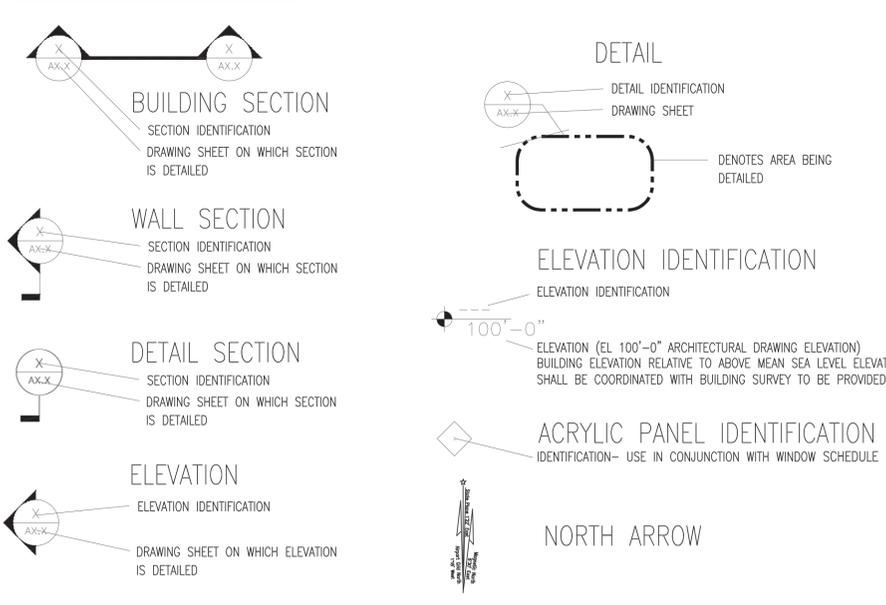


U-TURN AND PASSING SPACES

ABBREVIATIONS:

ABOVE FINISHED FLOOR	A.F.F.	DEGREE	DEG.	FIRE HOSE CABINET	F.H.C.	MATERIAL	MATL.	PRESSURE TREATED PROPERTY	P.T.	VAPOR BARRIER	V.B.
ACOUSTIC CEILING TILE	A.C.T.	DETAIL	DET.	FIRE HOSE RACK	F.H.R.	MAXIMUM MECHANICAL	MAX. MECH.	VERTICAL VINYL COMPOSITION TILE	V.V.C.T.	VERT. V.C.T.	
ADJACENT	ADJ.	DIAMETER	DIA.	FIXTURE	FIXT.	METAL	MTL.	QUANTITY	QTY.	VINYL WALL COVERING	V.W.C.
AIR HANDLER UNIT	A.H.U.	DIMENSION	DIM.	FLOOR	FL.	MINIMUM	MIN.	QUARRY TILE	Q.T.	VOLUME	VOL.
AIRLINE TICKET OFFICE	A.T.O.	DISTANCE	DIST.	FLOOR DRAIN	F.D.	MISCELLANEOUS	MISC.	RADIUS	R.	WARNOCK HERSEY INTERNATIONAL WATER CLOSET	W.H.I.
ALTERNATE	ALT.	DIVIDER	DIV.	FLUORESCENT	FLUOR.	METAL STUD FRAMING	M.S.F.	REQUIRED REVISION	R. REQD. REV.	WEIGHT	WT.
ALUMINUM	ALUM.	DOWN	DN.	FIRE RETARDANT	F.R.	MULLION	M.U.L.L.	RIGHT HAND	R.H.	WELDED WIRE FABRIC	W.W.F.
APPROXIMATE	APPROX.	DRAWING	DWG.			MULTI USER FLIGHT INFORMATION DISPLAY SYSTEM	M.U.F.I.D.S.	ROOM DRAIN	R.M.	WOOD	WD.
ARCHITECTURAL ASPHALT	ARCH. ASPH.	DRINKING FOUNTAIN	D.F.			NOMINAL NOT IN CONTRACT NOT TO SCALE NUMBER	NOM. N.I.C. N.I.T.S. NO.	RECESSED	REC.	WORKING POINT	W.P.
BEAM	BM.	EACH EXTERIOR INSULATION FINISH SYSTEM	EA. E.I.F.S.	GAUGE GALVANIZED GLASS	GA. GALV. GL.	ON CENTER OPENING	O.C. OPG.	SCALE SCHEDULE SECTION	SC. SCHE.D. SECT.		
BENCH MARK	B.M.	EXISTING DIMENSION	E.D.	GLASS FIBER REINF. GYPSUM BOARD	G.F.R.G. GYP.BD.	OPPOSITE UNCE	OPP. OZ.	SELF SERVICE DEVICE SHEET	S.S.D. SHT.		
BLOCKING	BLKG.	ELECTRICAL WATER COOLER	E.W.C.	HARDWARE	HDW.	OUTSIDE DIAMETER	O.D.	SIMILAR	SIM.		
BOARD	BD.	ELEVATION	EL.	HEAD	HD.	OVERALL	O.A.	SQUARE FEET	SQ. FT.		
BOTTOM BUILDING	BOT. BLDG.	EMERGENCY OVERFLOW DRAIN ENCLOSURE	E.O.D. ENCL.	HEIGHT	HT.			STAINLESS STEEL STATION	S.S. STA.		
CARD READER	C.R.	ENCLOSURE	ENCL.	HOLLOW METAL	H.M.			STEEL STRUCTURAL STUD	STL. STRUCT. STD.		
CARPET	CPT.	EQUAL	EQ.	HIGH PRESSURE PLASTIC LAMINATE	HPPL			SUSPENDED SYMBOL	SUSP. SYM.		
CEILING	CLG.	EQUIPMENT	EQUIP.	INSULATION	INSUL.			THICKNESS TYPICAL	THK. TYP.		
CENTERLINE	CL or C.L.	EXISTING	EXIST.	INTERIOR	INT.						
CERAMIC TILE	C.T.	EXPANSION JOINT	EXP. JT.								
CLEAR	CL.	EXPOSED	EXP.								
CENTER	CTR.	EXPLOSIVE TRACE DETECTION	E.T.D.								
COLD FORMED METAL FRAMING	C.F.M.F.	EXTERIOR	EXT.								
COLUMN	COL.	FEET	FT.								
COMPRESSIBLE CONCRETE	COMP. CONC.	FIBERGLASS REINFORCED GYPSUM	F.R.G.								
CONCRETE BLOCK	CONC. BLK.	FINISH	FIN.								
CONCRETE MASONRY UNIT CONNECTION	CMU CONN.	FIRE EXTINGUISHER	F.E.C.								
CONTINUOUS	CONT.	CABINET	CAB.								
CONTROL JOINT	C.J.	MASONRY OPENING	M.O.								
CORRIDOR	CORR.										
CUBIC	CU.										

DRAFTING SYMBOLOGY:



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BID DOCUMENTS

 08/10/16


Austin-Bergstrom International Airport

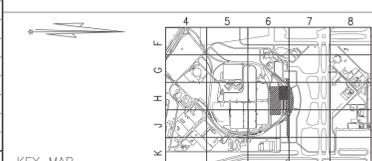
AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER IMPROVEMENTS

ABIA Project No.: LC500	Permit Issue No.:	AIP/CIP Nos.: 6001.107	No.	Date	Issue Description	By
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DRAWING DESCRIPTION:

GENERAL INFORMATION

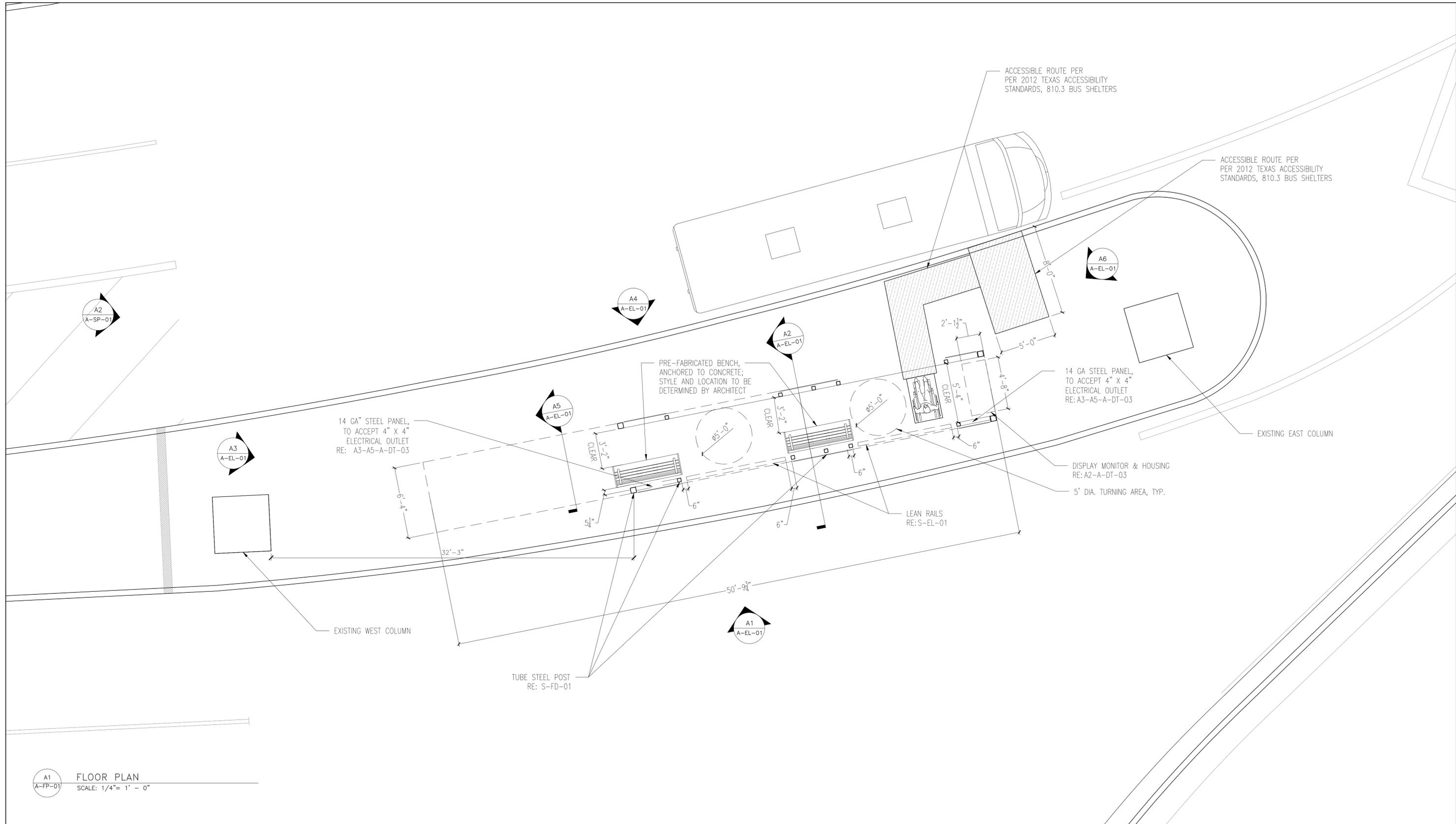


KEY MAP

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 COORD. CHECK: BC
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 DATE: 10AUG16
 SCALE: AS NOTED
 SHEET NO.

A-GI-01

15 OF 32



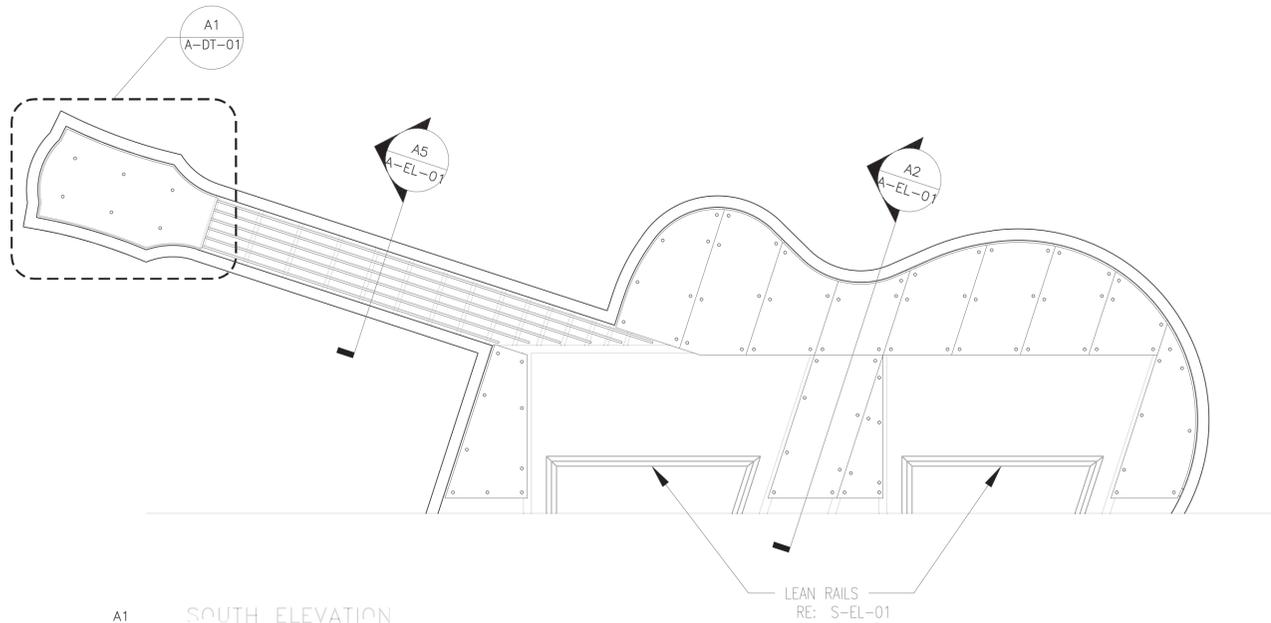
A1 FLOOR PLAN
A-FP-01 SCALE: 1/4" = 1' - 0"

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REGISTERED FIRM NUMBER: 3401

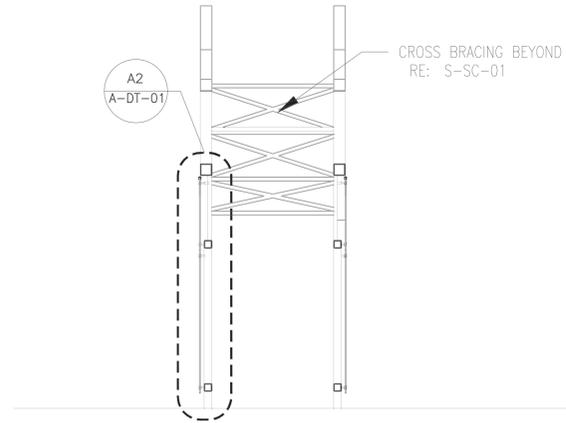
BID DOCUMENTS
REGISTERED ARCHITECT
FRANK JAMES GRAY, IV
1539
STATE OF TEXAS
08/25/16

**Austin-Bergstrom
International Airport**

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT		DRAWING DESCRIPTION:		JOB NO.: 2150147.012	
BUS SHELTER IMPROVEMENTS		FLOOR PLAN		DRAWN BY: EW	
ABIA Project No.: LC500		KEY MAP		CHECKED BY: FG	
Permit Issue No.:				COORD. CHECK: BC	
AIP/CIP Nos.: 6001.107				FILE NAME: A-FP-01.dwg	
No. Date Issue Description By				DATE: 10AUG16	
				SCALE: 1/4"=1'	
				SHEET NO.	
				A-FP-01	
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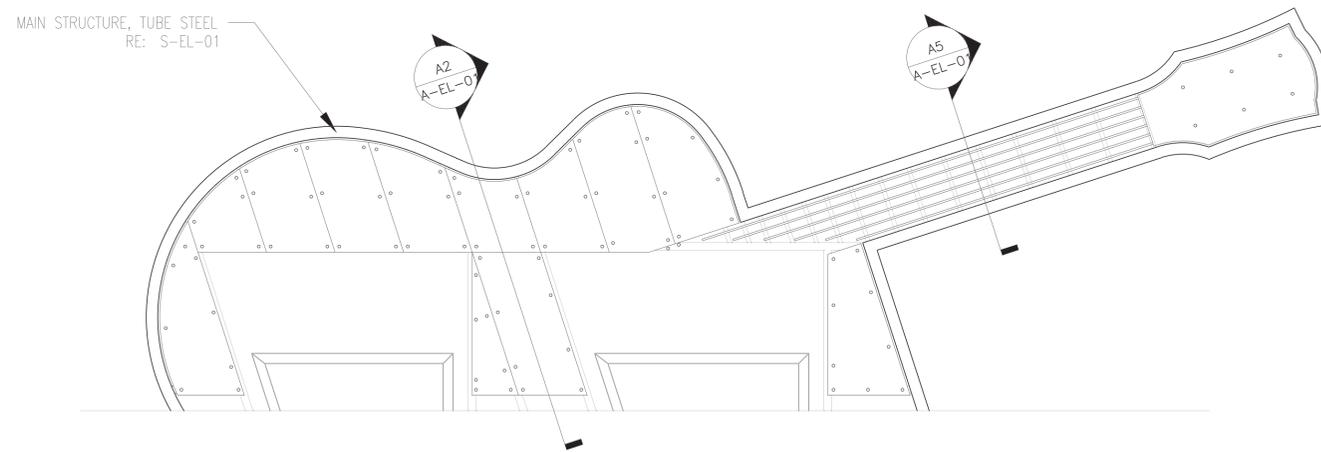
A1 SOUTH ELEVATION
A-EL-01 SCALE: 1/4" = 1' - 0"



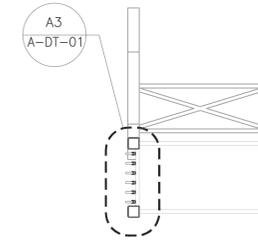
A2 SECTION THROUGH GUITAR 'BODY'
A-EL-01 SCALE: 1/4" = 1' - 0"



A3 EAST PERSPECTIVE
A-EL-01 SCALE: N.T.S.



A4 NORTH ELEVATION
A-EL-01 SCALE: 1/4" = 1' - 0"



A5 SECTION THROUGH GUITAR 'NECK'
A-EL-01 SCALE: 1/4" = 1' - 0"



A6 WEST PERSPECTIVE
A-EL-01 SCALE: N.T.S.

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Building Two, Suite 100
Austin, Texas 78759
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08/10/16



Austin-Bergstrom
International Airport

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER IMPROVEMENTS

ABIA Project No.: LC500

Permit Issue No.:

AIP/CIP Nos.: 6001.107

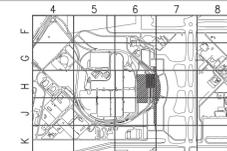
No. Date

Issue Description

By

DRAWING DESCRIPTION:

ELEVATIONS PLAN

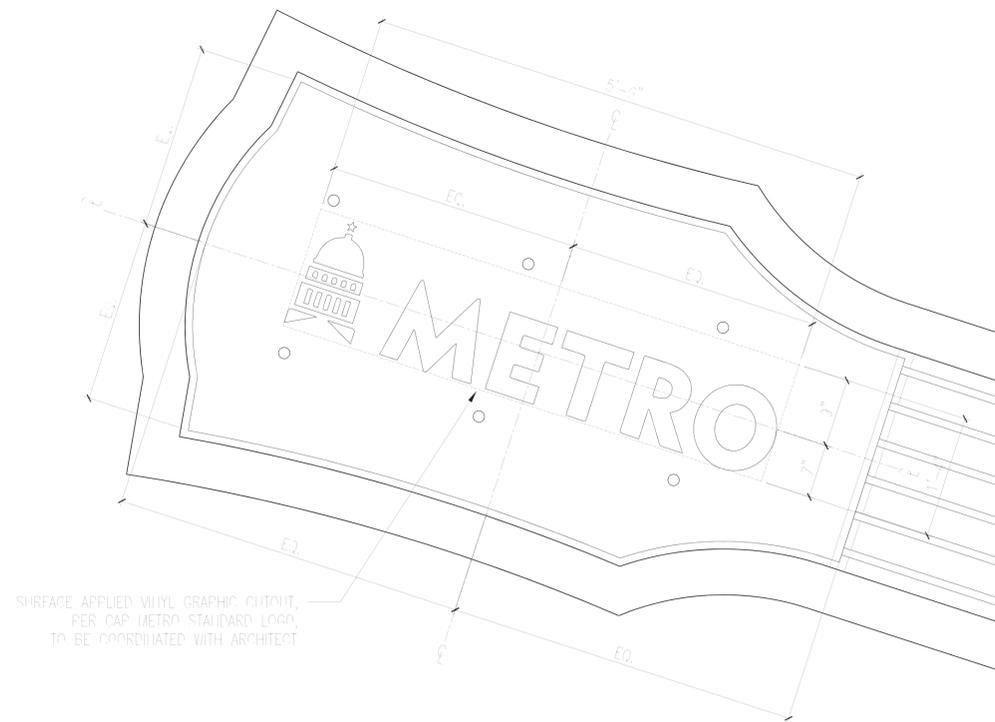


KEY MAP

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COORD. CHECK: KB
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SCALE: AS NOTED
SHEET NO.

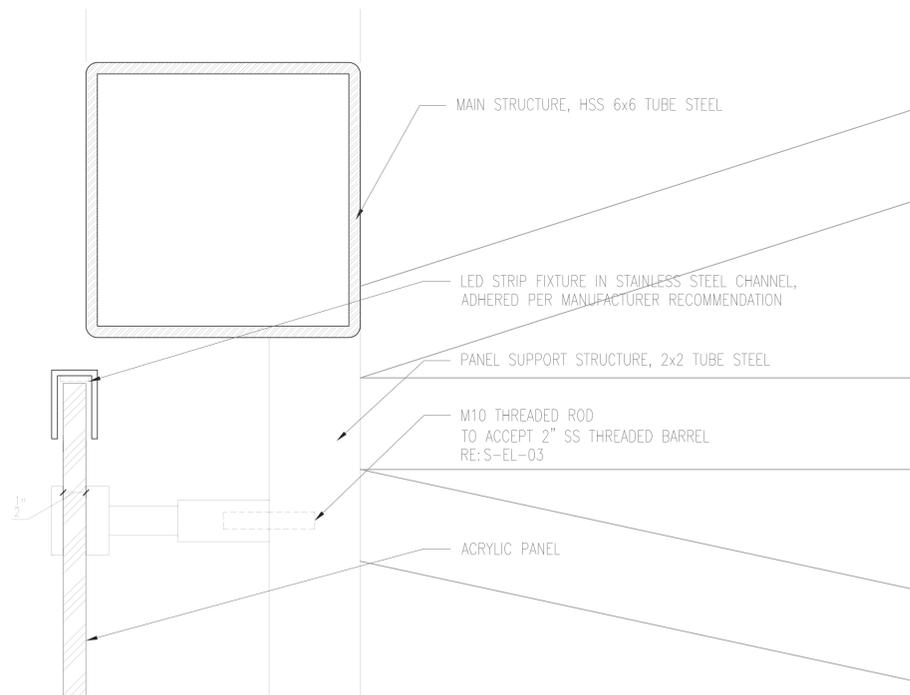
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18 OF 32

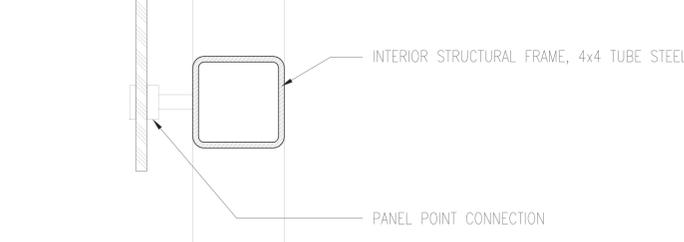
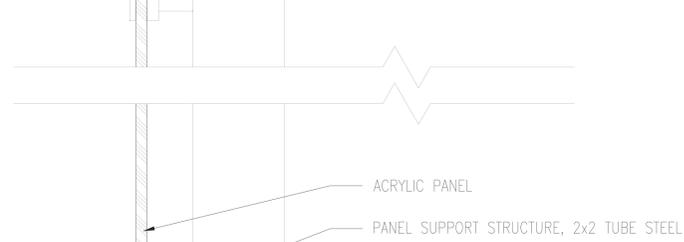
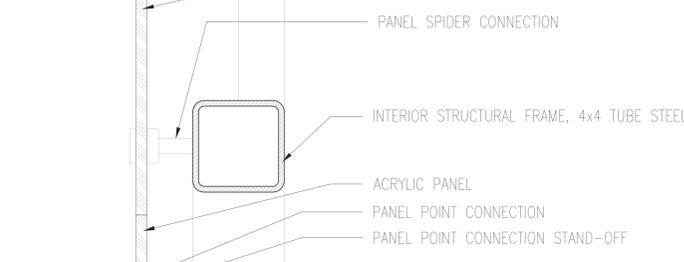
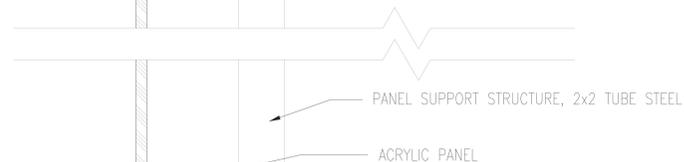
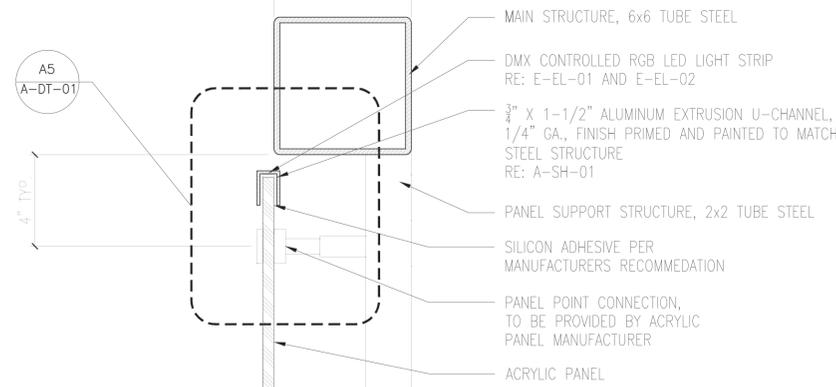


SURFACE APPLIED VINYL GRAPHIC CUTOUT,
PER CAP METRO STANDARD LOGO,
TO BE COORDINATED WITH ARCHITECT

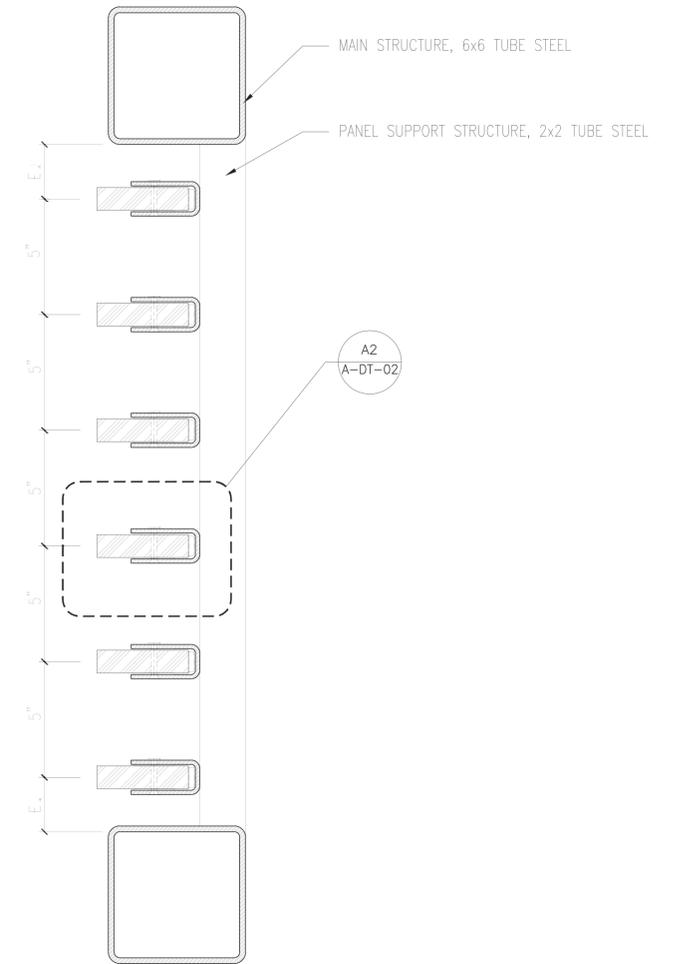
A1 HEAD DETAIL
A-DT-01 SCALE: 2" = 1' - 0"



A5 BODY PANEL EDGE TRIM DETAIL
A-DT-01 SCALE: 6" = 1' - 0"



A2 SECTION THROUGH GUITAR 'BODY' - DETAIL
A-DT-01 SCALE: 3" = 1' - 0"



A3 SECTION THROUGH GUITAR 'NECK' - DETAIL
A-DT-01 SCALE: 3" = 1' - 0"



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REGISTERED FIRM NUMBER: 3401

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Austin-Bergstrom
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AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER IMPROVEMENTS

ABIA Project No.: LC500

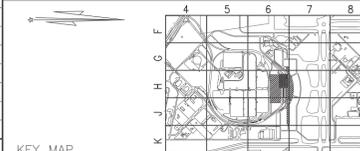
Permit Issue No.:

AIP/CIP Nos.: 6001.107

No. Date Issue Description

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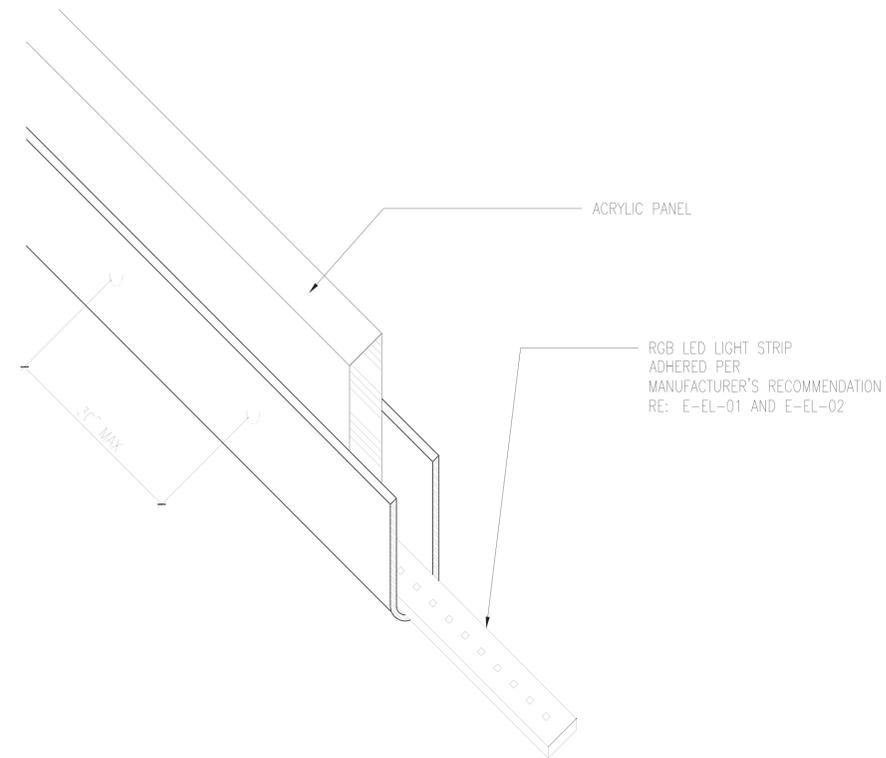


KEY MAP

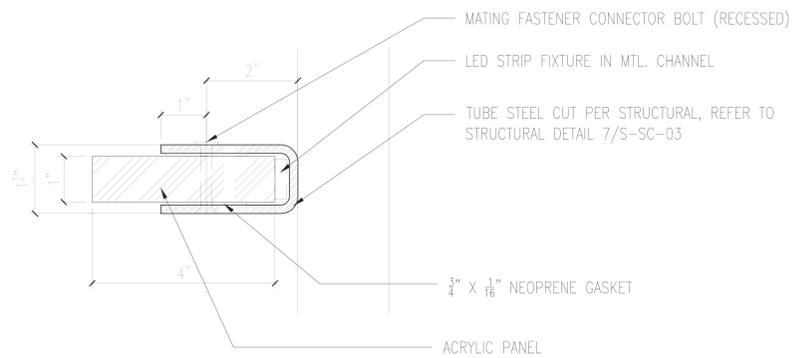
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SCALE: AS NOTED
SHEET NO.

A-DT-01

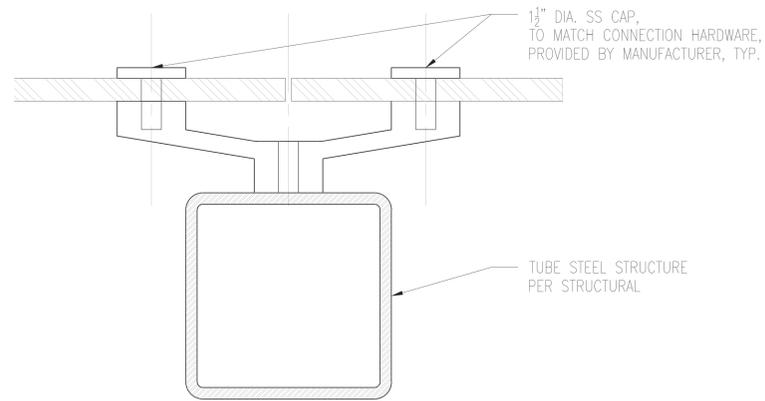
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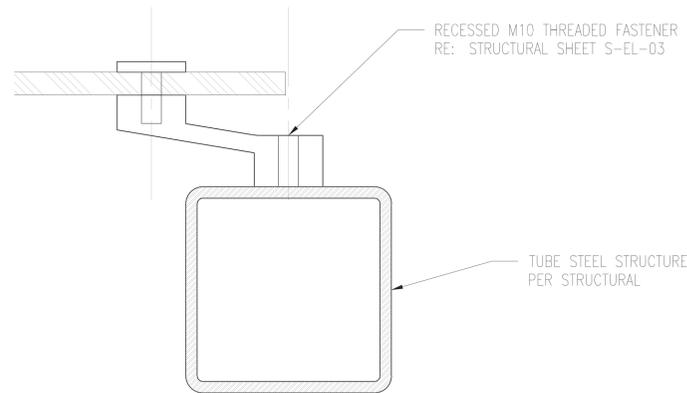
A1 NECK PANEL ASSEMBLY - DIAGRAM
A-DT-02 SCALE: 6" = 1' - 0"



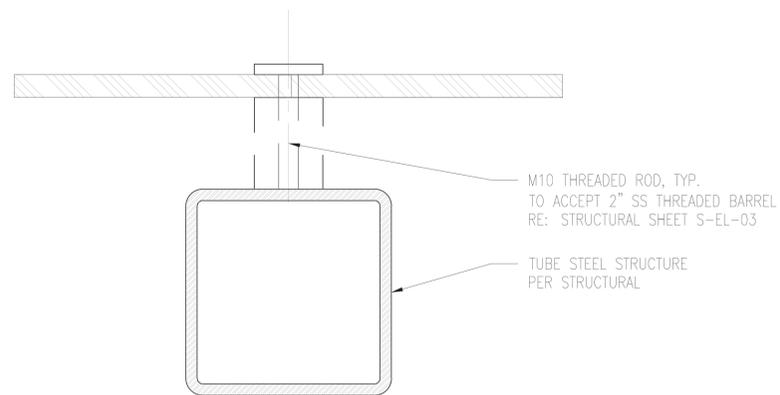
A2 NECK PANEL ASSEMBLY - DETAIL
A-DT-02 SCALE: 6" = 1' - 0"



A3 TYP. DUAL-ARM SPIDER CONNECTION
A-DT-02 SCALE: 6" = 1' - 0"



A4 TYP. SINGLE-ARM SPIDER CONNECTION
A-DT-02 SCALE: 3" = 1' - 0"



A5 TYP. 2" BARREL CONNECTION
A-DT-02 SCALE: 3" = 1' - 0"

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RS&H, Inc.
8140 N. MoPac Expressway Westpark
Building Two, Suite 100
Austin, Texas 78759
(512)279-5427
WWW.RSANDH.COM
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No. Date

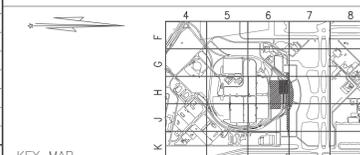
Issue Description

By

KEY MAP

DRAWING DESCRIPTION:

ENLARGED DETAILS



JOB NO.: 2150147.012

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COORD. CHECK: BC

FILE NAME: A-DT-02.dwg

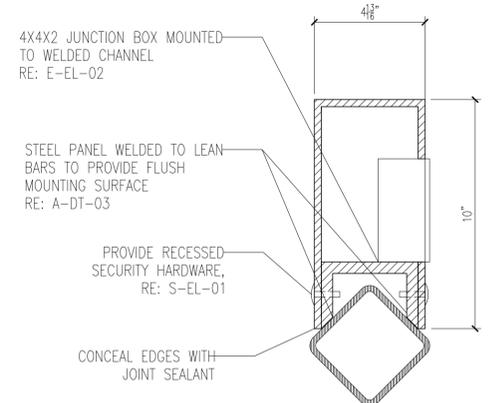
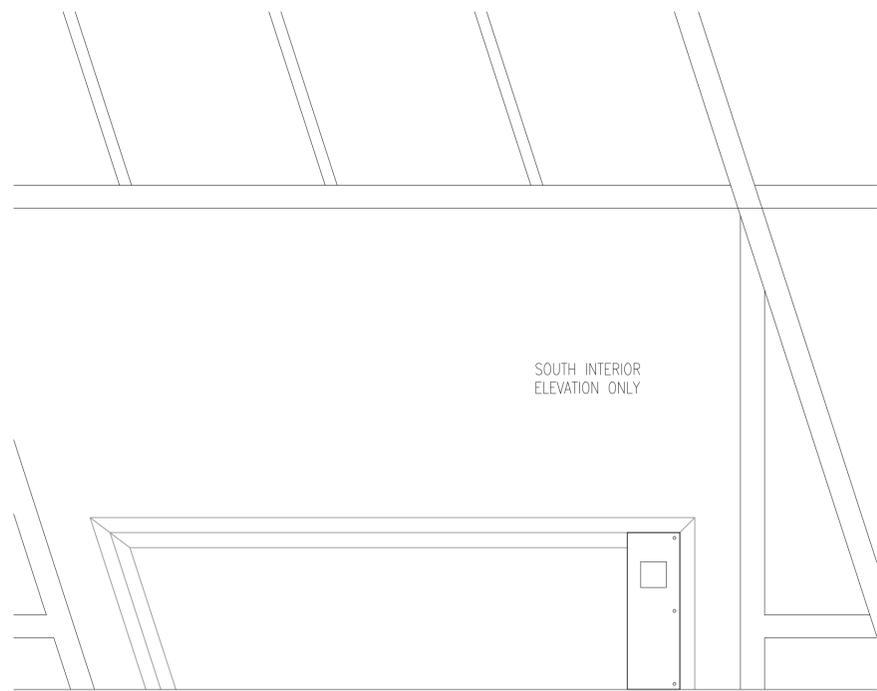
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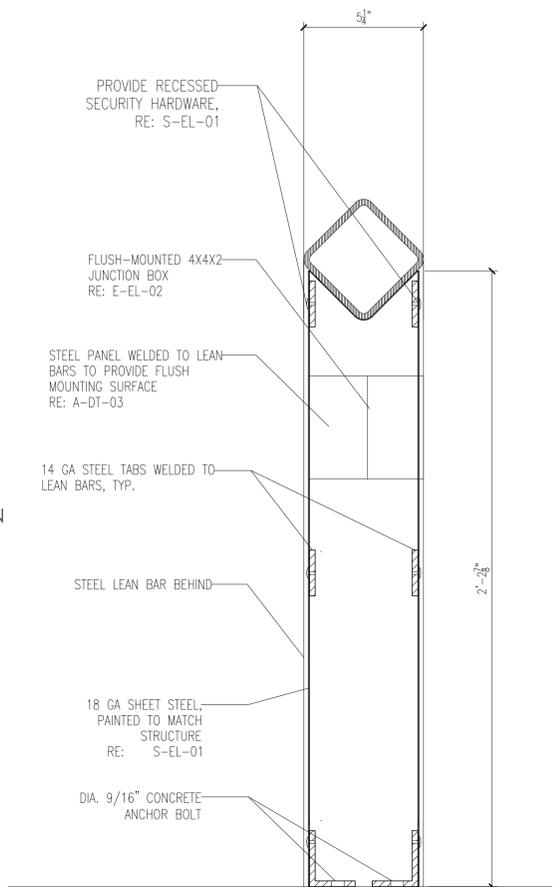
SHEET NO.

A-DT-02

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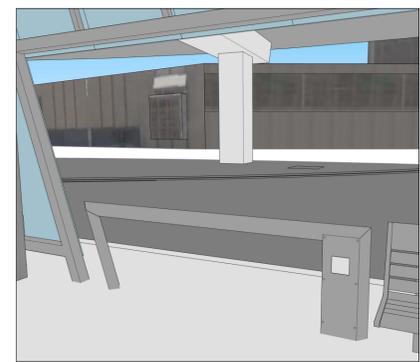


A4
A-DT-03 TYP. OUTLET COVER HORIZONTAL SECTION
SCALE: 3" = 1' - 0"

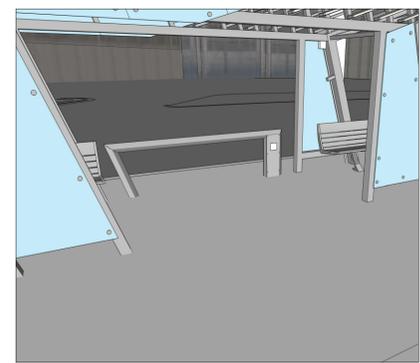


A5
A-DT-03 TYP. OUTLET COVER VERTICAL SECTION
SCALE: 3" = 1' - 0"

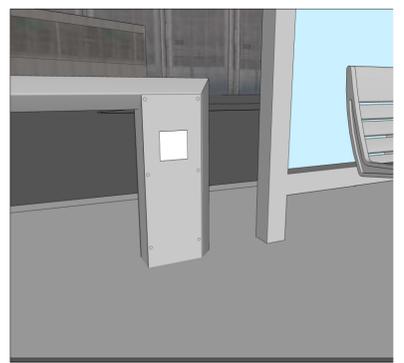
A3
A-DT-03 ELECTRICAL OUTLET POWER BOX (TYP.)
SCALE: 3/4" = 1' - 0"



EAST OUTLET COVER PERSPECTIVE

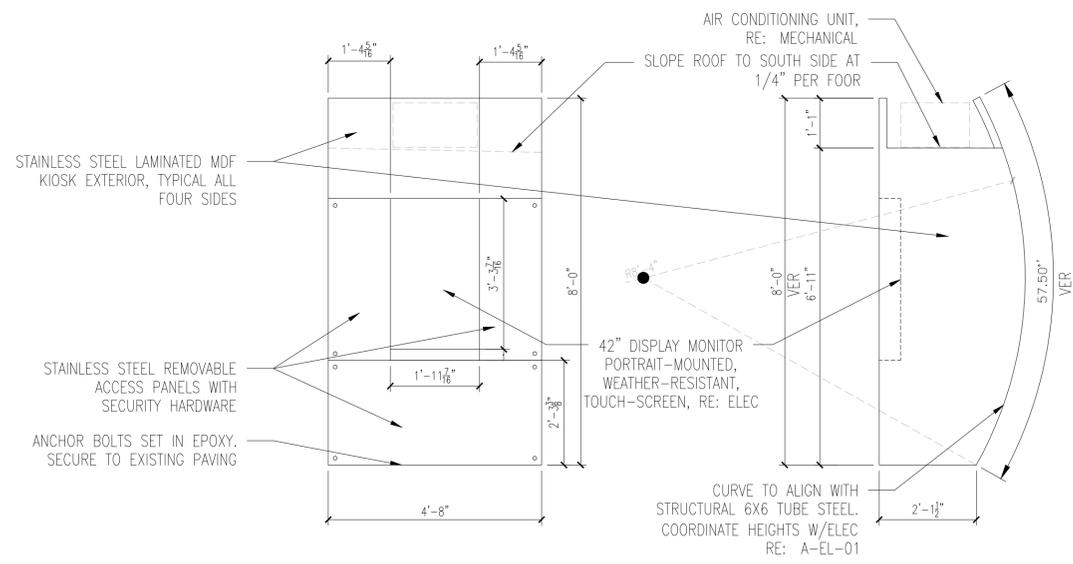


WEST OUTLET COVER PERSPECTIVE

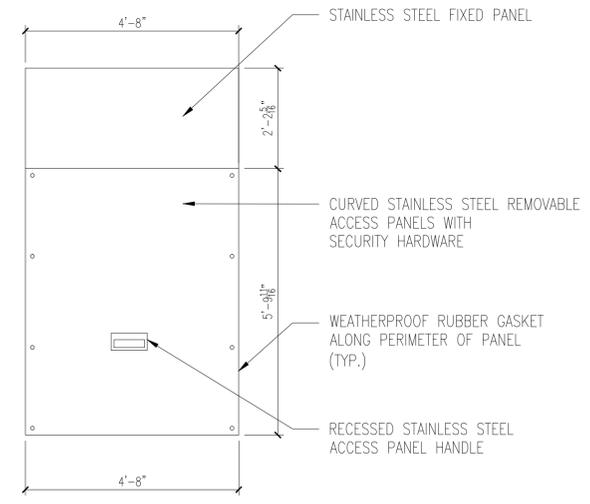


TYPICAL OUTLET COVER PERSPECTIVE

A6
A-DT-03 OUTLET COVER PANEL PERSPECTIVES
SCALE: N.T.S.



A2
A-DT-03 DISPLAY MONITOR KIOSK DETAIL
SCALE: 1/2" = 1' - 0"



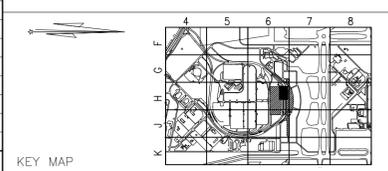
NOTE: KIOSK TO BE SIZED APPROPRIATELY FOR EQUIPMENT. TO BE APPROVED BY ARCHITECT

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER IMPROVEMENTS

ABIA Project No.: LC500	Permit Issue No.:	AIP/CIP Nos.: 6001.107	No.	Date	Issue Description	By
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DRAWING DESCRIPTION:
FURNITURE AND FIXTURE DETAILS



JOB NO.:	2150147.012
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FILE NAME:	A-DT-03.dwg
DATE:	10AUG16
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SHEET NO.:	

A-DT-03

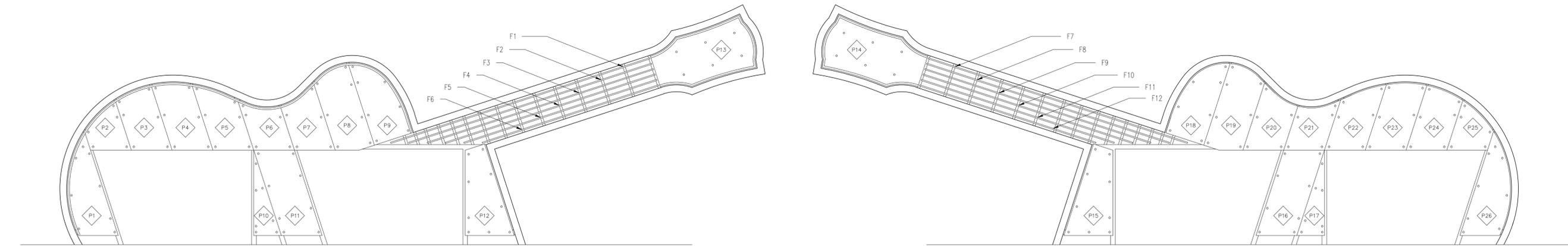
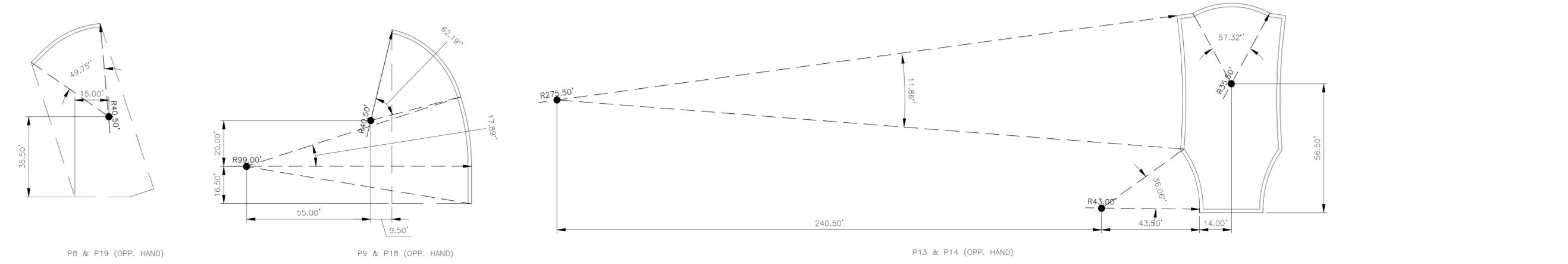
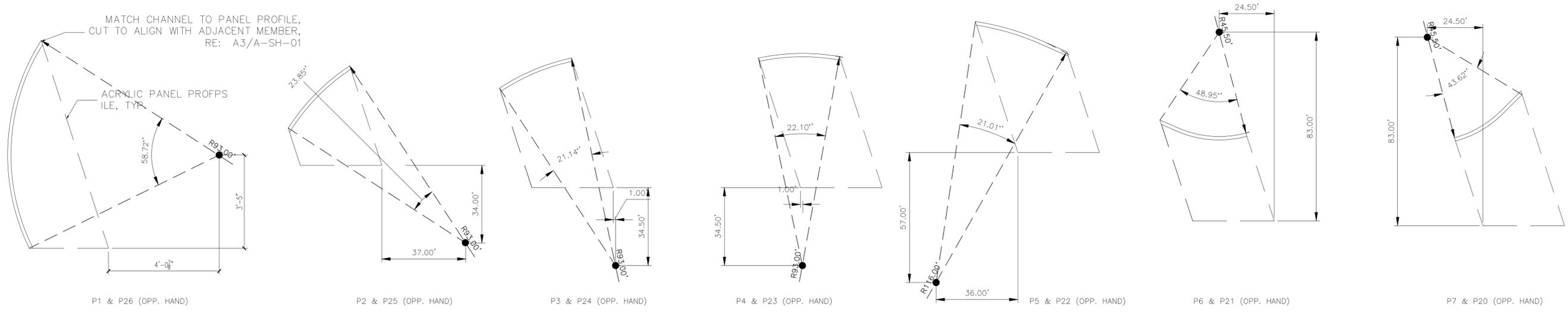


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8140 N. MoPac Expressway Westpark
Building Two, Suite 100
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A1 NORTH ELEVATION PANEL SCHEDULE
SCALE: 1/4" = 1' - 0"

A2 SOUTH ELEVATION PANEL SCHEDULE
SCALE: 1/4" = 1' - 0"

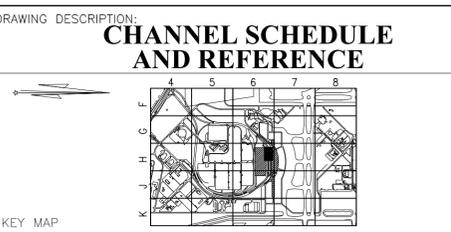
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BID DOCUMENTS
REGISTERED ARCHITECT
FRANK JAMES GREAT YORK
STATE OF TEXAS
1539
08/10/16



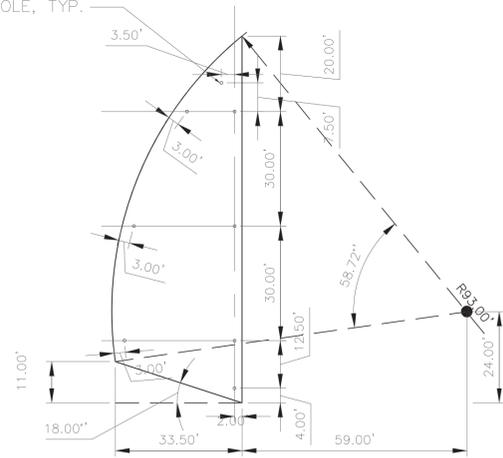
AUSTIN-BERGSTROM INTERNATIONAL AIRPORT
BUS SHELTER IMPROVEMENTS
ABIA Project No.: LC500 Permit Issue No.: AIP/CIP Nos.: 6001.107

No.	Date	Issue Description	By

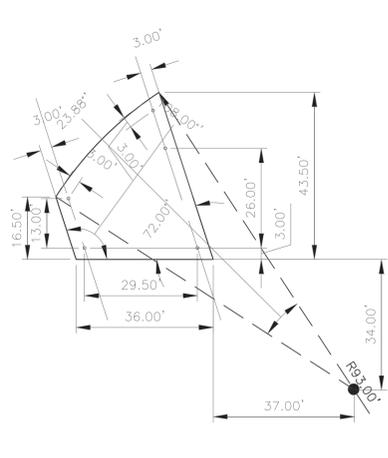


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A-SH-01
22 OF 32

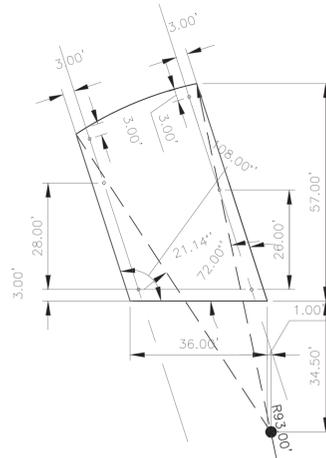
3/4" DIAMETER HOLE, TYP.



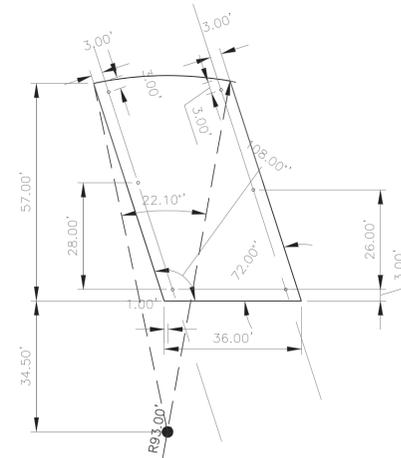
P1 & P26 (OPP. HAND)



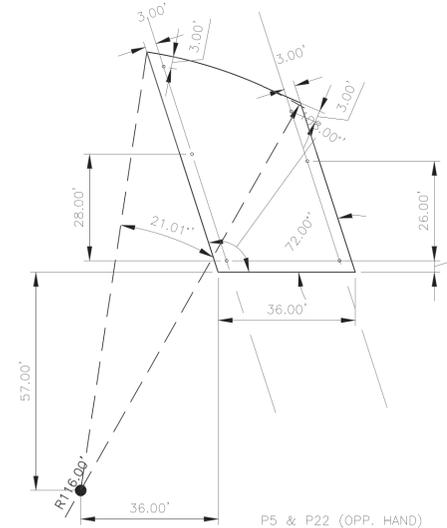
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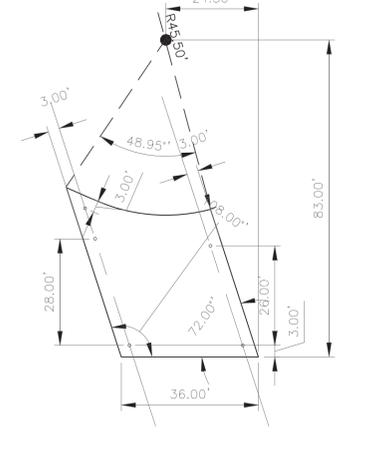
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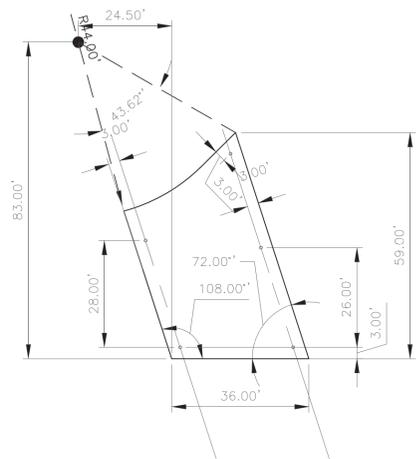
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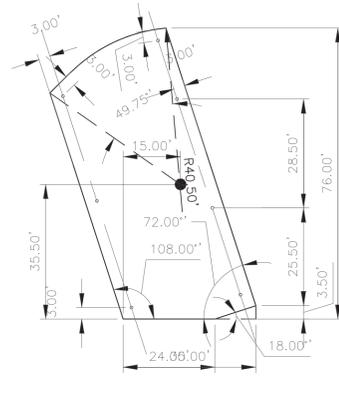
P5 & P22 (OPP. HAND)



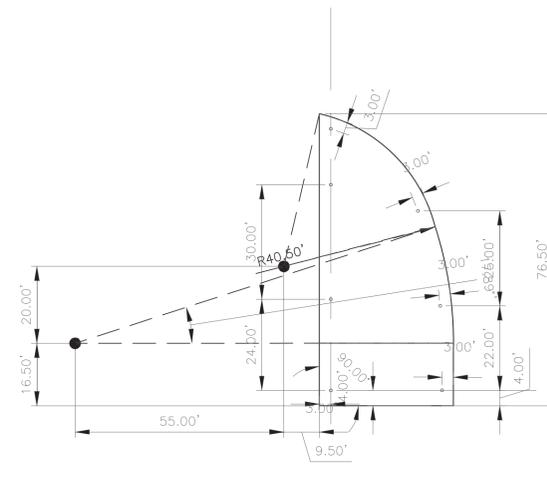
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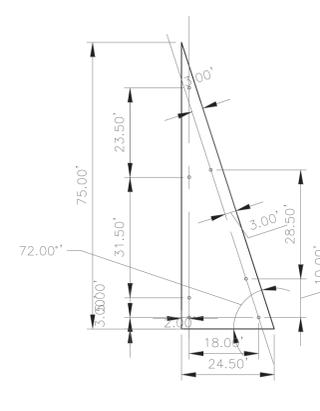
P7 & P20 (OPP. HAND)



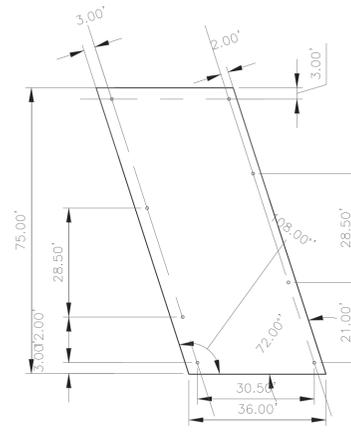
P8 & P19 (OPP. HAND)



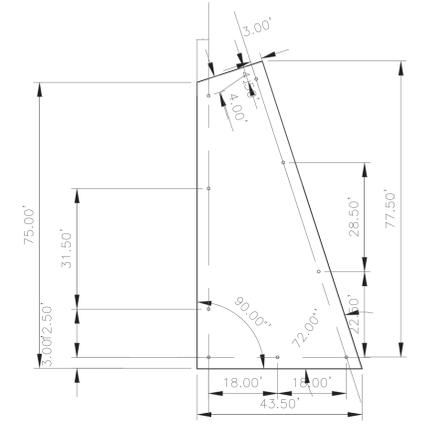
P9 & P18 (OPP. HAND)



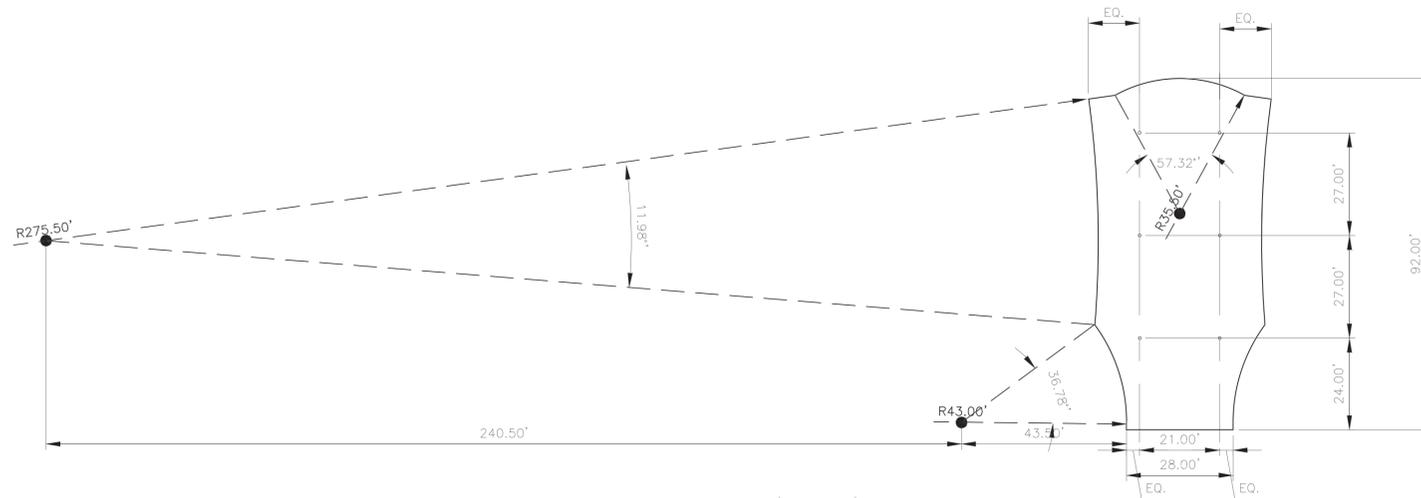
P10 & P17 (OPP. HAND)



P12 & P16 (OPP. HAND)



P12 & P15 (OPP. HAND)



P13 & P14 (OPP. HAND)



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8140 N. MoPac Expressway Westpark
Building Two, Suite 100
Austin, Texas 78759
(512)279-5427
WWW.RSANDH.COM
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BUS SHELTER IMPROVEMENTS

ABIA Project No.: LC500

Permit Issue No.:

AIP/CIP Nos.: 6001.107

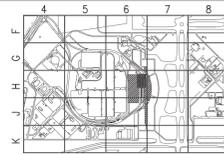
No. Date

Issue Description

By

DRAWING DESCRIPTION:

ACRYLIC PANEL SCHEDULE

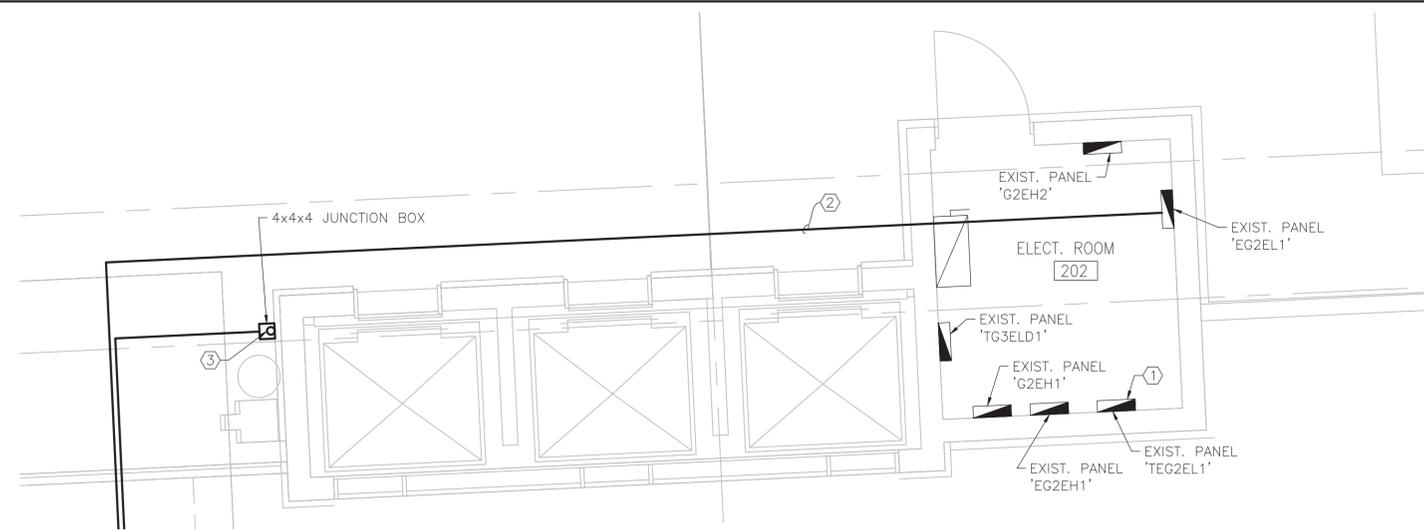


KEY MAP

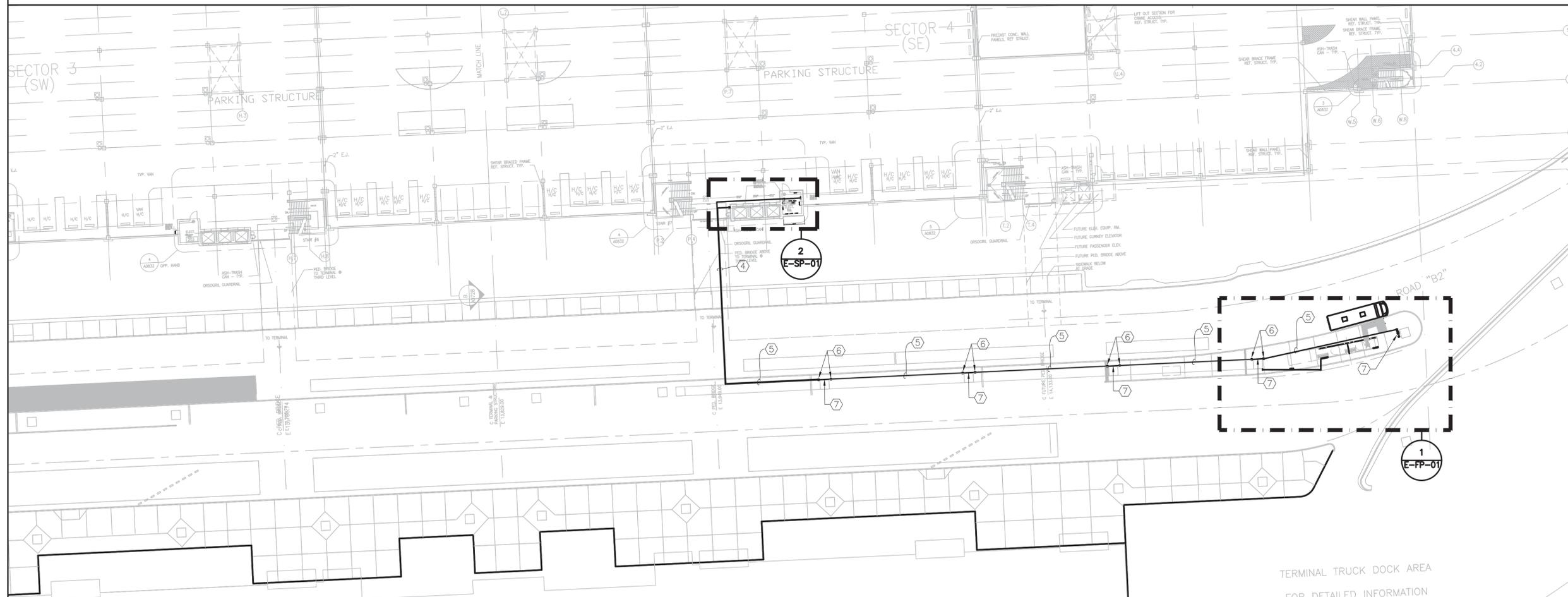
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CHECKED BY: FG
COORD. CHECK: BC
FILE NAME: A-SH-02.dwg
DATE: 10AUG16
SCALE: AS NOTED
SHEET NO.

A-SH-02

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2 EAST ELECTRICAL ROOM (PARKING GARAGE LEVEL 2) - POWER PLAN
 E-SP-01 SCALE: 1/8"= 1'-0"



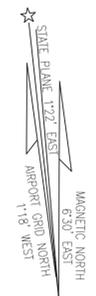
1 SITE PLAN (WITH PARKING GARAGE LEVEL 2) - POWER PLAN
 E-SP-01 SCALE: 1/32"= 1'-0"

GENERAL NOTES

- A. PROVIDE 'LB' FITTING AT ALL 90deg ELBOW CONDUIT FOR POWER.
- B. PROVIDE 4x4x4 JUNCTION BOX AT ALL 90deg ELBOW CONDUIT FOR COMMUNICATION FIBER.

KEY NOTES

- 1. EXISTING PANEL 'EG2EL1'. PROVIDE 60A/208V/2-POLE CIRCUIT BREAKER ON AVAILABLE SPACE FOR NEW ELECTRICAL LOAD ENTER 'BP'. VERIFY AVAILABLE CIRCUIT IN FIELD.
- 2. 2" CONDUIT (REFER 2/E-DG-01 FOR MORE INFORMATION) FROM EXISTING PANEL 'EG2EL1' TO ELECTRICAL 'BP' IN NEW KIOSK
- 3. 1-1" CONDUIT WITH PULLSTRING UP FROM GARAGE IT ROOM AT LOWER LEVEL FOR COMMUNICATION FIBER.
- 4. SUSPEND 1-2" CONDUIT (REFER 2/E-DG-01 FOR MORE INFORMATION) AND 1-1" CONDUIT WITH PULLSTRING (FROM GARAGE IT ROOM AT LOWER LEVEL FOR COMMUNICATION FIBER) FROM STRUCTURAL MEMBER UNDER BRIDGE BETWEEN GARAGE AND TERMINAL.
- 5. MOUNT 1-2" CONDUIT (REFER 2/E-DG-01 FOR MORE INFORMATION) AND 1-1" CONDUIT WITH PULLSTRING (FROM GARAGE IT ROOM AT LOWER LEVEL FOR COMMUNICATION FIBER) TO SIDE OF EAST-WEST BEAM.
- 6. PROVIDE AND INSTALL 2 JUNCTION BOXES AT EACH SIDE OF NORTH-SOUTH BEAM (ONE FOR POWER, ONE FOR COMMUNICATION FIBER).
- 7. LIQUID-TIGHT FLEXIBLE METAL CONDUITS CONNECT BETWEEN JUNCTION BOXES EACH SIDE OF NORTH-SOUTH BEAM .



RS&H, Inc.
 8140 N. Mo Pac Expy Bldg 2, Suite 100
 Austin, Texas 78759
 (512)279-5427 FAX (512)459-2233
 www.rsandh.com
 Texas Registration Nos: BR 751 * F-3401



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 8500 Bluffstone Cove, Suite B-103
 Austin, Texas 78759 | 512.338.1101
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ABIA Project No.: LC500

Permit Issue No.:

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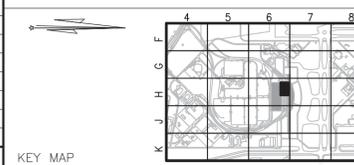
No. Date

Issue Description

By

DRAWING DESCRIPTION:

ELECTRICAL SITE PLAN



KEY MAP

JOB NO.: 2150147.012
 DRAWN BY: S.T.N.
 CHECKED BY: S.S.B.
 COORD. CHECK: S.S.B.
 FILE NAME: LA401-E-SP-01.DWG
 DATE: 10 AUGUST 2016
 SCALE:
 SHEET NO.

E-SP-01

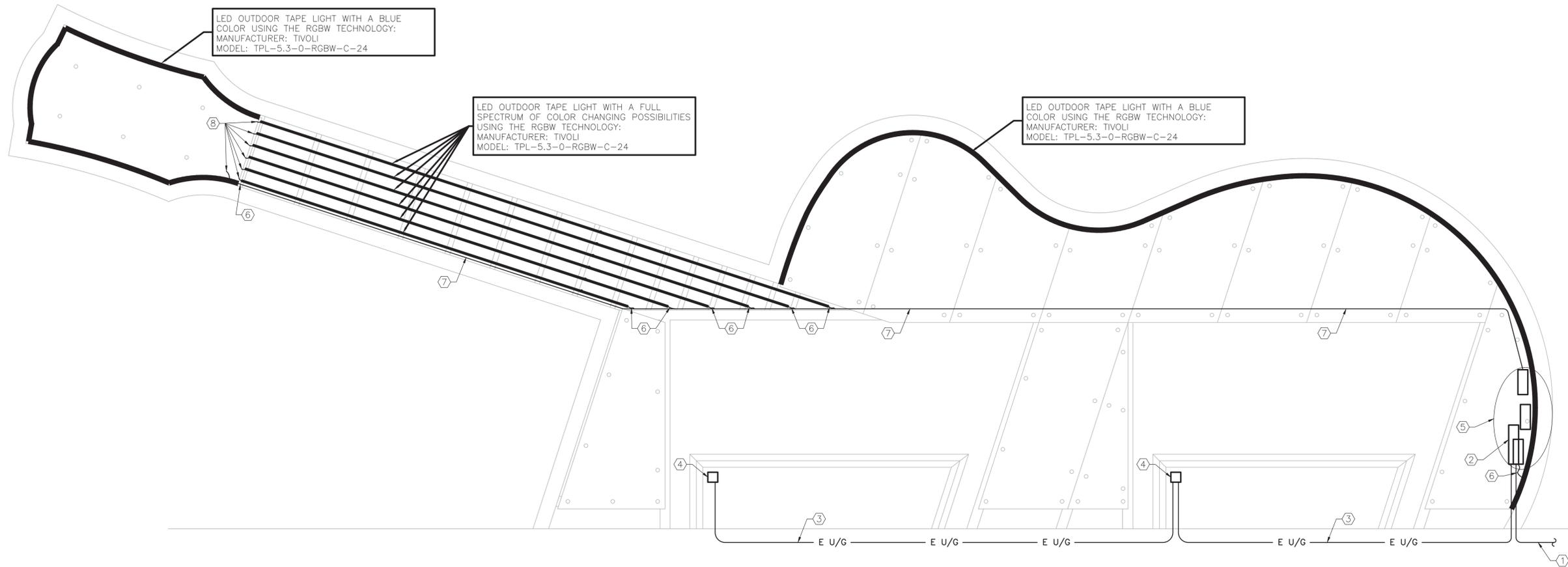
24 OF 32

GENERAL NOTES

- A. CONTRACTOR MUST VERIFY LENGTH OF LED TAPE LIGHT WITH ARCHITECT, OWNER AND ACTUAL BUILDING IN FIELD PRIOR TO PURCHASE AND INSTALL.
- B. COORDINATE WITH ARCHITECTURAL DRAWING FOR MOUNTING DETAIL OF JUNCTION BOX, CONDUIT AND LED TAPE LIGHT FIXTURE.

KEYNOTES

- 1. 2" UNDERGROUND CONDUIT (REFER 2/E-DG-01 FOR MORE INFORMATION) FROM PULL BOX TO ELECTRICAL LOAD CENTER 'BP'.
- 2. ELECTRICAL LOAD CENTER 'BP'.
- 3. 1" UNDERGROUND CONDUIT WITH 2-10#(CU) & #12 (CU) GROUND (FOR POWER TO RECEPTACLE)
- 4. MOUNT 4x4x2 JUNCTION BOX WITH ONE DUPLEX RECEPTACLE & 2-USB OUTLET AND EXTRA-DUTY IN-USE COVER (INTERMATIC WP5000 SERIES IN-USE COVER OR APPROVED EQUIVALENT) ON WALL UNDER LEAN RAIL. COORDINATE WITH MANUFACTURER FOR MOUNTING DETAIL.
- 5. PROVIDE LIGHTING CONTROLLER AND POWER SUPPLIES FOR LED TAPE LIGHT AND ELECTRICAL LOAD CENTER ON WALL INSIDE CABINET.
- 6. LOW VOLTAGE WIRES CONNECTION TO LED TAPE LIGHT.
- 7. LOW VOLTAGE WIRES IN 1" CONDUIT ABOVE STEEL BEAM FROM POWER SUPPLY TO LED TAPE LIGHTS.
- 8. BUTT CONNECTOR TO LED TAPE LIGHT AT ANOTHER SIDE.



SOUTH ELEVATION

1 SOUTH ELEVATION - POWER PLAN
E-EL-02 SCALE: 1/4" = 1'-0"



RS&H, Inc.
8140 N. Mo Pac Expy Bldg 2, Suite 100
Austin, Texas 78759
(512)279-5427 FAX (512)459-2233
www.rsandh.com
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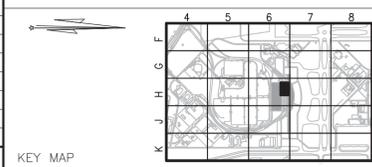
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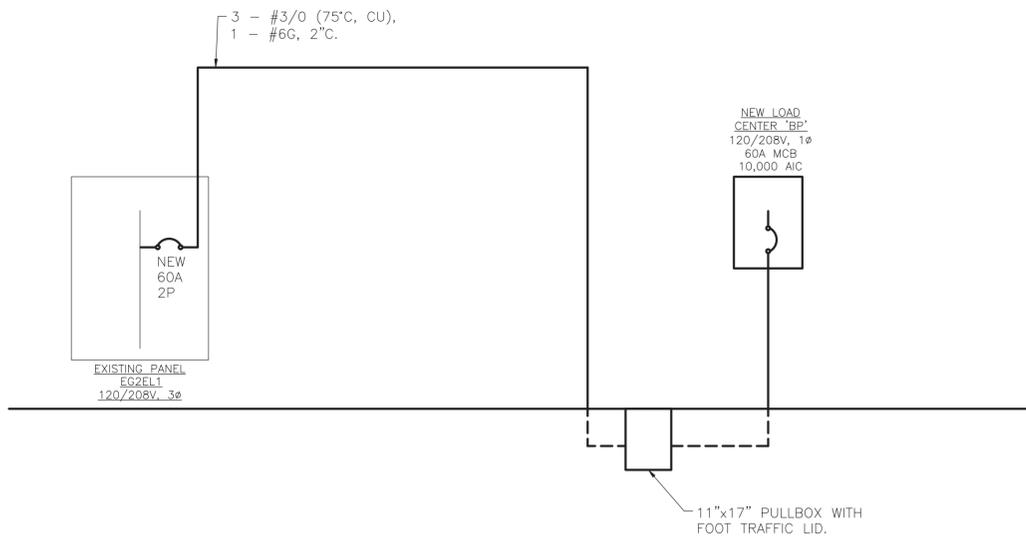
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ELECTRICAL ELEVATIONS



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COORD. CHECK: S.S.B.
FILE NAME: LA401-E-EL-01.DWG
DATE: 10 AUGUST 2016
SCALE:
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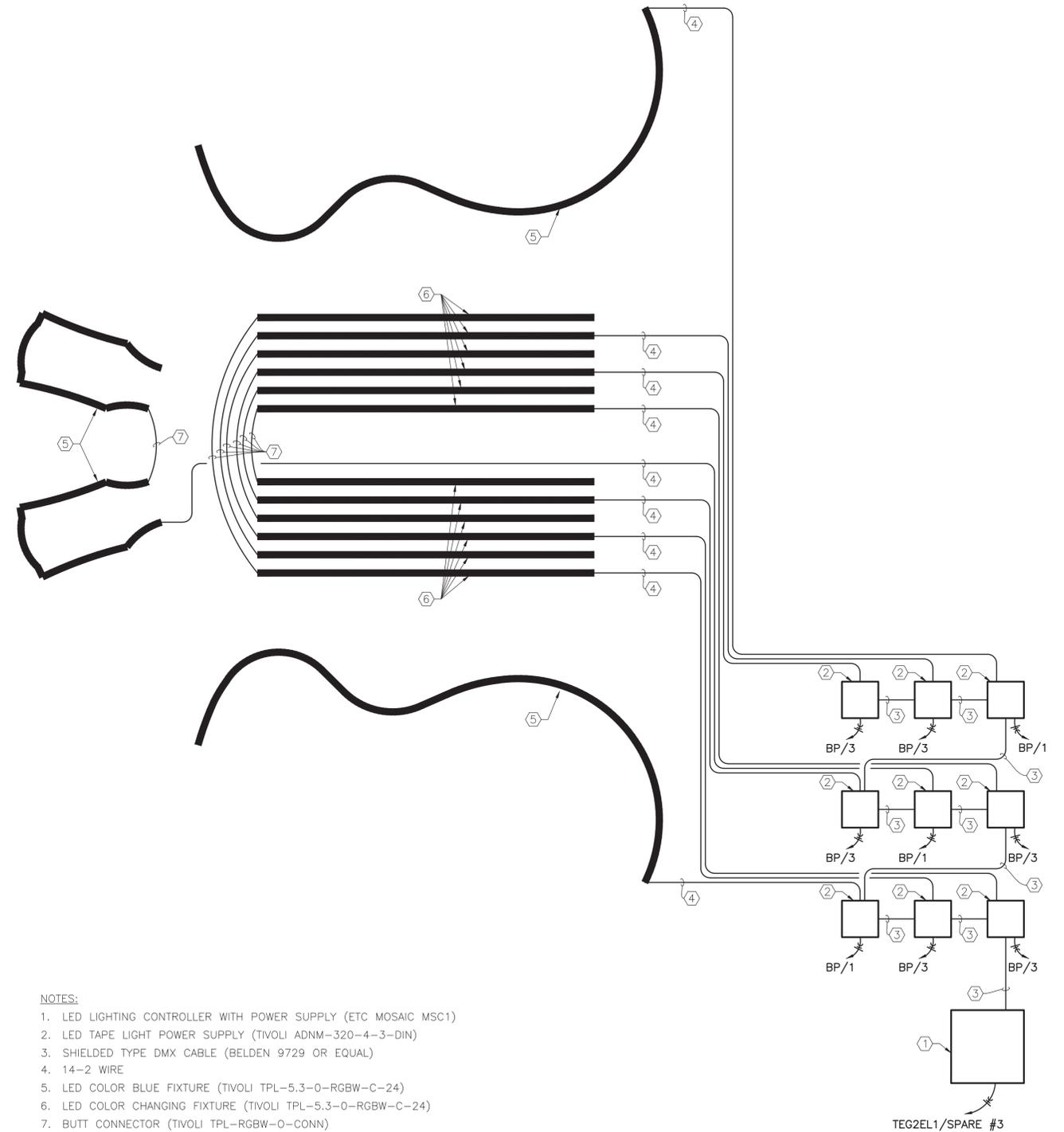
E-EL-02



- NOTES:**
- UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC.
 - ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
 - PROVIDE 'LB' FITTING AT ALL 90deg ELBOW CONDUIT FOR POWER.

2 ELECTRICAL ONE LINE DIAGRAM
NOT TO SCALE

ELECTRICAL LOAD CENTER SCHEDULE										BP		LOCATION: SEE PLAN	
										C.B. RATING: 10,000 A.I.C.			
NOTE	VOLTAGE	PHASE	WIRE	MOUNTING		SIZE	LUG	TYPE		NOTE			
	208/120V	1	3	SURFACE		100A	60A MCB	NEMA 3R					
USE and/or AREA SERVED		C/B POLE	CIR	LOAD		CIR	C/B POLE	USE and/or AREA SERVED					
	LED LIGHT	20/1	1	900		2	20/2	HVAC UNIT					
	LED LIGHT	20/1	3	1000		4							
	SPARE	20/1	5			6		SPACE					
	RECEPTACLE	20/1	7		360	8		SPACE					
	DISPLAY SCREEN RECEPTACLE	20/1	9	180		10		SPACE					
	SPARE	20/1	11			12		SPACE					
TOTAL LOAD PER PHASE			2080		3160			3160 VA / 120 V = 26 A					
FEEDER OCPD AND CONDUCTOR CALCULATION													
LOAD DESCRIPTION (LOAD IN KVA)	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	AMPACTY FACTOR	FEEDER AMPACITY	NOTES							
INTERIOR LIGHTING	0.00	1.00	0.00	1.25	0.00	*FIRST 10 KVA AT 100%, REST AT 50%							
EXTERIOR LIGHTING	2.70	1.00	2.70	1.25	3.38								
RECEPTACLES	0.54	*	0.54	1.00	0.54								
HVAC	2.00	1.00	2.00	1.00	2.00								
EQUIPMENT	0.00	1.00	0.00	1.00	0.00								
KITCHEN EQUIPMENT	0.00	1.00	0.00	1.00	0.00								
LARGEST MOTOR	NONE	-	-	0.25	0.00								
SPARE	0.00	1.00	0.00	1.00	0.00								
TOTAL KVA	5.24	-	5.24	-	5.92								
TOTAL AMPS	25 A	-	25 A	-	28 A								



- NOTES:**
- LED LIGHTING CONTROLLER WITH POWER SUPPLY (ETC MOSAIC MSC1)
 - LED TAPE LIGHT POWER SUPPLY (TIVOLI ADN-320-4-3-DIN)
 - SHIELDED TYPE DMX CABLE (BELDEN 9729 OR EQUAL)
 - 14-2 WIRE
 - LED COLOR BLUE FIXTURE (TIVOLI TPL-5.3-0-RGBW-C-24)
 - LED COLOR CHANGING FIXTURE (TIVOLI TPL-5.3-0-RGBW-C-24)
 - BUTT CONNECTOR (TIVOLI TPL-RGBW-0-CONN)

1 LIGHTING CONTROL DIAGRAM
NOT TO SCALE

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Austin, Texas 78759
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ENGINEERING CONSULTANTS
TBPE Firm 1141
8500 Bluffstone Cove, Suite B-103
Austin, Texas 78759 | 512.338.1101
Project No.: 15044.M.AUS

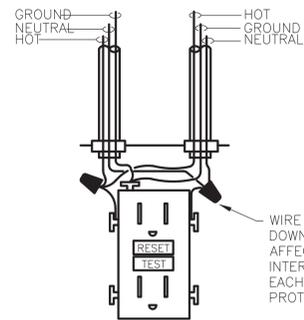
BID DOCUMENTS
Sharon S. Bickford
SHARON S. BICKFORD
77390
LICENSED PROFESSIONAL ENGINEER
08/10/2016

Austin-Bergstrom International Airport

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT
BUS SHELTER
ABIA Project No.: LC500 Permit Issue No.: AIP/CIP No.: 6001.107
No. Date Issue Description By

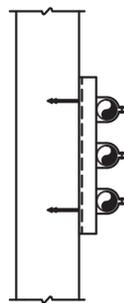
DRAWING DESCRIPTION:
ELECTRICAL DIAGRAMS
KEY MAP

JOB NO.: 2150147.012
DRAWN BY: S.T.N.
CHECKED BY: **S.S.B.**
COORD. CHECK: **S.S.B.**
FILE NAME: LA401-E-DG-01.DWG
DATE: 10 AUGUST 2016
SCALE:
SHEET NO.
E-DG-01
28 OF 32



WIRE GFCI DEVICE SUCH THAT THE DOWNSTREAM DEVICES ARE NOT AFFECTED BY GROUND FAULT INTERRUPTION, I.E. NON FEED THRU. EACH GFCI DEVICE SHALL BE SELF PROTECTING ONLY.

4 GFCI RECEPTACLE WIRING DIAGRAM
E-DT-01 NOT TO SCALE

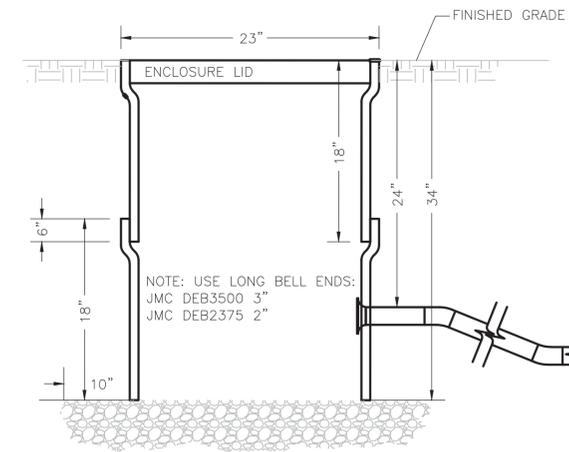


NOTE:
CONDUIT MAY RUN VERTICAL OR HORIZONTAL DEPENDING ON APPLICATION.

3 WALL, COLUMN AND BEAM CONDUIT SUPPORT DETAIL
E-DT-01 NOT TO SCALE



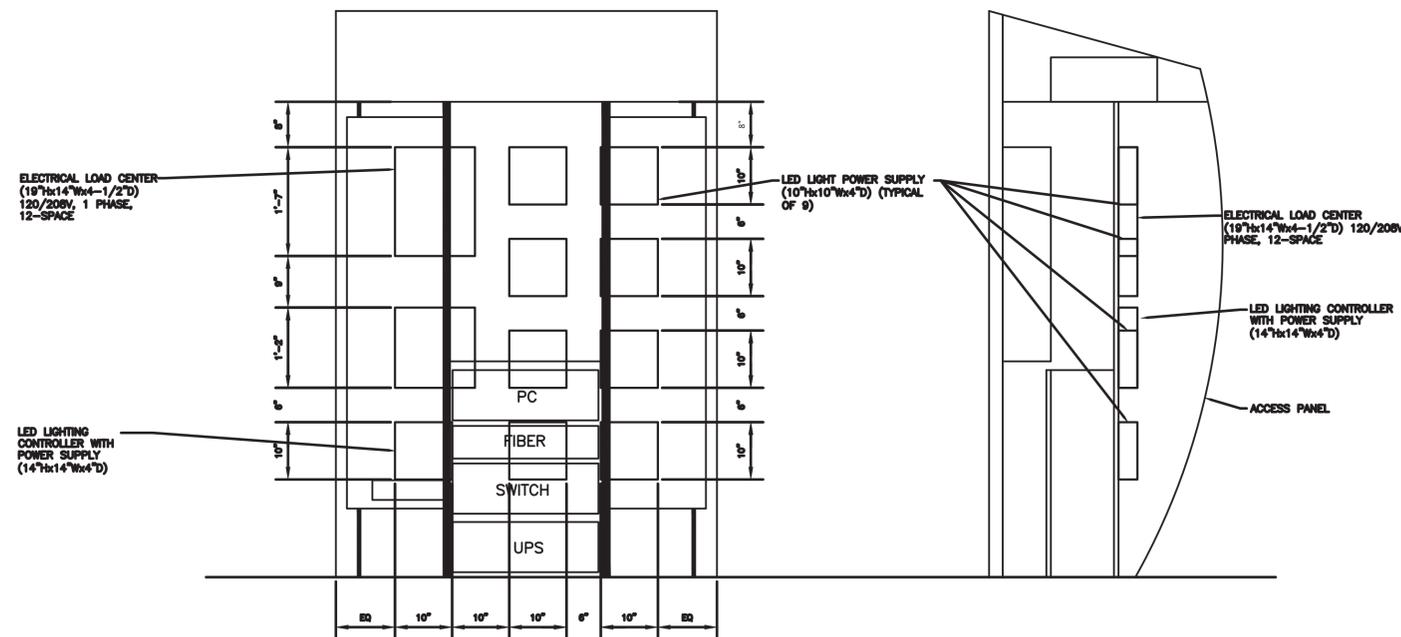
2 STEEL TUBE COLUMN AND BEAM CONDUIT SUPPORT
E-DT-01 NOT TO SCALE



NOTES:

- EXCAVATE APPROXIMATELY 10" GREATER AROUND THE ACTUAL OUTSIDE DIMENSION OF THE ENCLOSURE TO BE INSTALLED AND 6" DEEPER.
- ADD 6" OF 3/8" PEA GRAVEL FOR DRAINAGE.
- DRILL 7/8" PILOT HOLE WHERE CONDUIT IS TO ENTER ENCLOSURE. CUT OUT HOLE USING HOLE SAW.
- HOLES ARE NOT TO BE DRILLED INTO STRUCTURAL REINFORCING RIB, CORNER, OR BOX FLIP. HOLE SIZE SHOULD NOT EXCEED MORE THAN 25% OF THE AREA OF THE SIDEWALL BEING DRILLED.
- CONDUITS WITH BELL ENDS AS REQUIRED. BELL ENDS NEED TO BE GROUTED FLUSH TO THE WALL.
- TOP OF ENCLOSURE SHOULD BE AT GRADE LEVEL.

1 11" x 17" HANDHOLE DETAIL
E-DT-01 NOT TO SCALE



- NOTES:
- LAYOUT IS FOR REFERENCE ONLY.
 - REFER TO DETAILS ON SHEETS A-DT-03 AND T-DT-01

6 ELECTRICAL EQUIPMENT LAYOUT IN CABINET
E-DT-01 NOT TO SCALE



RS&H, Inc.
8140 N. Mo Pac Expy Bldg 2, Suite 100
Austin, Texas 78759
(512)279-5427 FAX (512)459-2233

www.rsandh.com
Texas Registration Nos. BR 751 * F-3401



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Austin, Texas 78759 | 512.338.1101
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08/10/2016



Austin-Bergstrom
International Airport

AUSTIN-BERGSTROM INTERNATIONAL AIRPORT

BUS SHELTER

ABIA Project No.: LC500

Permit Issue No.:

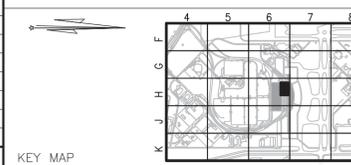
AIP/CIP No.: 6001.107

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DRAWING DESCRIPTION:

ELECTRICAL DETAILS



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