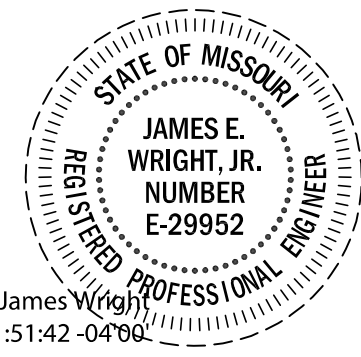


MEMORIAL STADIUM NORTH CONCOURSE VIDEO BOARD REPLACEMENT PROJECT NUMBER: CP241291

AT: UNIVERSITY OF MISSOURI - COLUMBIA, MISSOURI
FOR: THE CURATORS OF THE UNIVERSITY OF MISSOURI
ISSUE FOR BID: 03/22/2024

James E. Wright, Jr. Cornerstone Engineering, Inc. - REF D7570

I HEREBY CERTIFY THAT DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH BUILDING CODES OF THE UNIVERSITY OF MISSOURI.
SIGNATURE: **James Wright** Digitally signed by James Wright (401) Date: 2024.03.27 11:51:42 -0400



I HEREBY CERTIFY THAT DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH BUILDING CODES OF THE UNIVERSITY OF MISSOURI.
SIGNATURE: **Andrea C. Mulvany** Digitally signed by Andrea C. Mulvany (401) Date: 2024.03.26 10:03:26 -0400



I HEREBY CERTIFY THAT DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH BUILDING CODES OF THE UNIVERSITY OF MISSOURI.
SIGNATURE: **Steve Slusky** Digitally signed by Steve Slusky (401) Date: 2024.03.26 10:03:26 -0400



DESIGN CONSULTANTS:

ARCHITECTURAL

POPULOUS
4800 MAIN STREET
SUITE 300
KANSAS CITY, MO 64112
816-221-1500

STRUCTURAL

CORNERSTONE ENGINEERING
1020 WILLIAM BLOUNT DRIVE
MARYVILLE, TN 37801
865-273-2688

ELECTRICAL

HENDERSON ENGINEERS
1801 MAIN STREET
SUITE 300
KANSAS CITY, MO 64108
816-663-8700

AUDIO-VISUAL

WJHW
3424 MIDCOURT ROAD
SUITE 124
CARROLLTON, TX 75006
972-934-3700

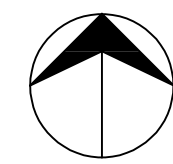
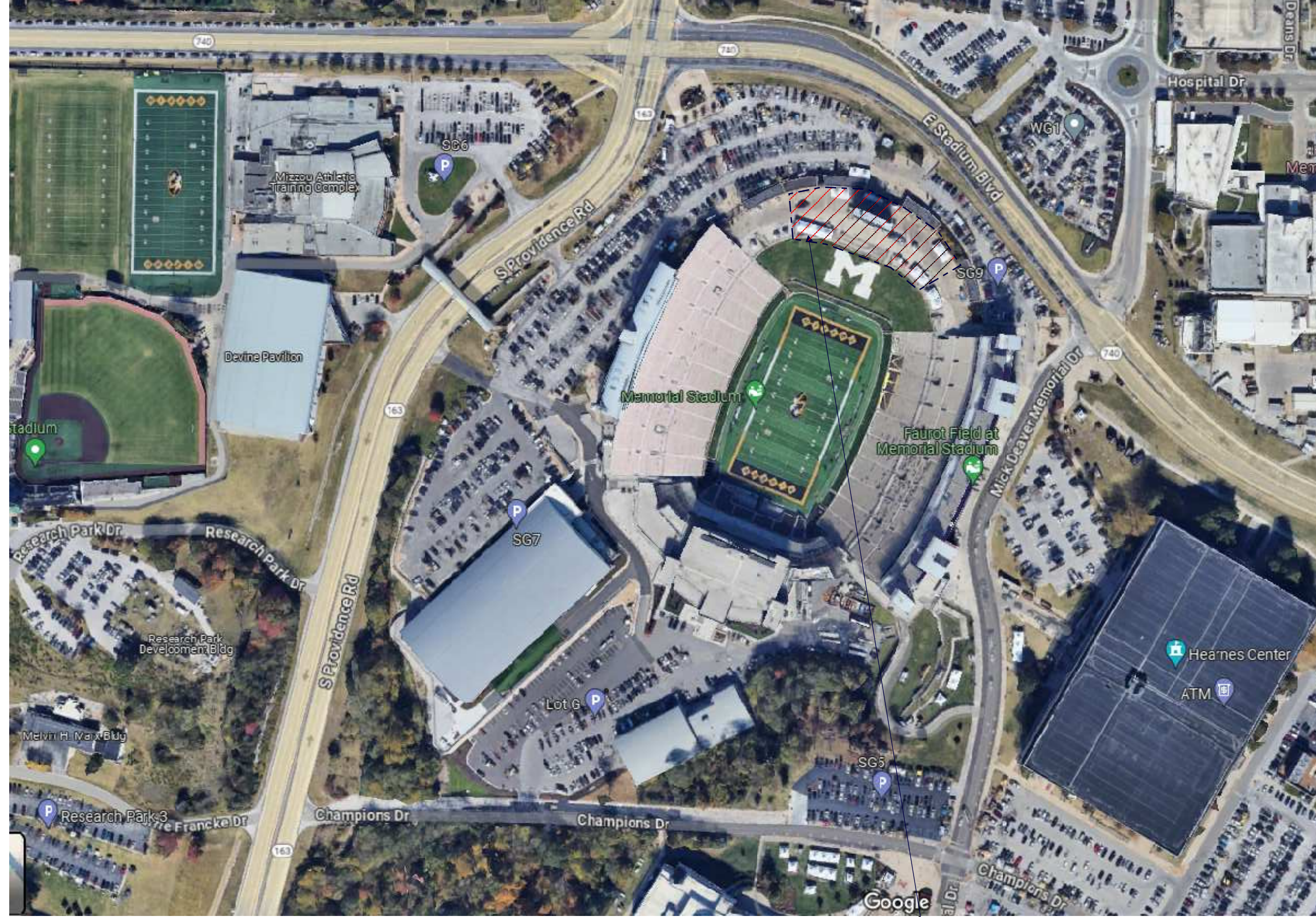
OWNER'S REPRESENTATIVE

POPULOUS
4800 MAIN STREET
SUITE 300
KANSAS CITY, MO 64112
816-221-1500

CODES & STANDARDS

UM CONSULTANT PROCEDURES AND DESIGN GUIDELINES: CURRENT EDITION

IBC:	2021	NFPA 45:	2019
IEBC:	2021	NFPA 72:	2019
IMC:	2021	NFPA 90A:	2018
IPC:	2021	NFPA 96:	2017
IFC:	2021	NFPA 110:	2019
IFGC:	2021	NFPA 150:	2019
NEC:	2020	ASHRAE 62.1:	2019
NFPA 13:	2019	ASHRAE 90.1:	2019
NFPA 14:	2019	ASME A17.1:	2016
NFPA 20:	2019	ICC A117.1:	2017



SITE ACCESS & STAGING PLAN

SCALE: NTS

SITE ACCESS, JOB FENCING AND LAYDOWN AREA TO BE COORDINATED WITH OWNER'S REP AND MU

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE	REVISION DELTA #	REVISION DESCRIPTION						
			1	2	3	4	5	6	
G001	COVER: DRAWING INDEX AND PROJECT NOTES								
	STRUCTURAL								
S1 OF 6	GENERAL DRAWINGS AND NOTES								
S2 OF 6	DISPLAYS								
S3 OF 6	FRAMING DRAWINGS								
S4 OF 6	NEW END FRAMING								
S5 OF 6	DETAILS AND ISOMETRICS								
S6 OF 6	DETAILS								
	ELECTRICAL								
E0	ELECTRICAL LEGEND AND NOTES								
E1	ELECTRICAL ONE-LINE DIAGRAM								
	VIDEO BOARDS								
V200	ELECTRICAL INDEX AND NOTES								
V201	ELECTRICAL RISER DIAGRAMS								
V300	INDEX AND NOTES								
V301	FRONT ELEVATION VIEW								
V302	REAR ELEVATION VIEW								
V303	PLAN VIEWS								
V304	SECTION VIEWS								
V305	STRUCTURE ELEVATION								
V306	DISPLAY DETAILS								
V307	AUDIO SHOP DRAWING								
V500	AUDIO - ELECTRICAL NOTES AND INDEX								
V501	AUDIO - RISER PLAN VIEW								
V502	AUDIO - AMP/SPEAKER SCHEMATIC								
V503	AUDIO - CONTROL SCHEMATIC								
V504	AUDIO - RACK ELEVATIONS								
	AUDIO								
AV000	GENERAL NOTES, LEGENDS								
AV001	GENERAL NOTES, LEGENDS								
AV090	A-V EQUIPMENT RACK DETAILS								
AV1100	A-V FUNCTIONAL LEGEND, STANDARD DETAILS								
AV1101	A-V FUNCTIONAL LEGEND, STANDARD DETAILS								
AV1112	FUNCTIONALS								
AV1190	DEMOLITION PLAN								
AV1191	SCOREBOARD LOUDSPEAKERS								
AV1192	LOUDSPEAKER AIMING DETAIL								
	AT&T - FOR REFERENCE								
A5.01	NORTH END SCOREBOARD ELEVATION								
A6.01	SCOREBOARD ANTENNA LAYOUT								

PROJECT ADDRESS

Memorial Stadium, 1100 South Providence Road, Columbia, MO.

PROJECT DESCRIPTION

Removal of existing field-side video board, scoreboard and ribbon board; removal of existing street-side video board; selective demolition of existing audio system in accordance with new system; selective demolition of existing formed metal wall panels and associated trim.

New structural framing and catwalk at east and west ends of existing structure/catwalk for attachment of and access to new field-side and street-side video boards; modifications to audio system; covering of exposed structure/catwalk with formed metal wall panels matching existing; enclosing top of new structure with standing seam metal roof matching existing and bottom of new catwalk with bird control netting.

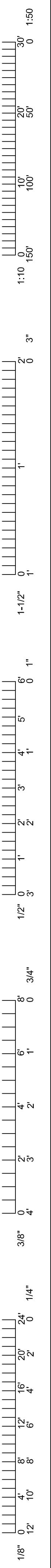
MEMORIAL STADIUM
COLUMBIA, BOONE COUNTY, MISSOURI 65211
NORTH CONCOURSE VIDEO BOARD REPLACEMENT
COVER SHEET

PROJECT NUMBER

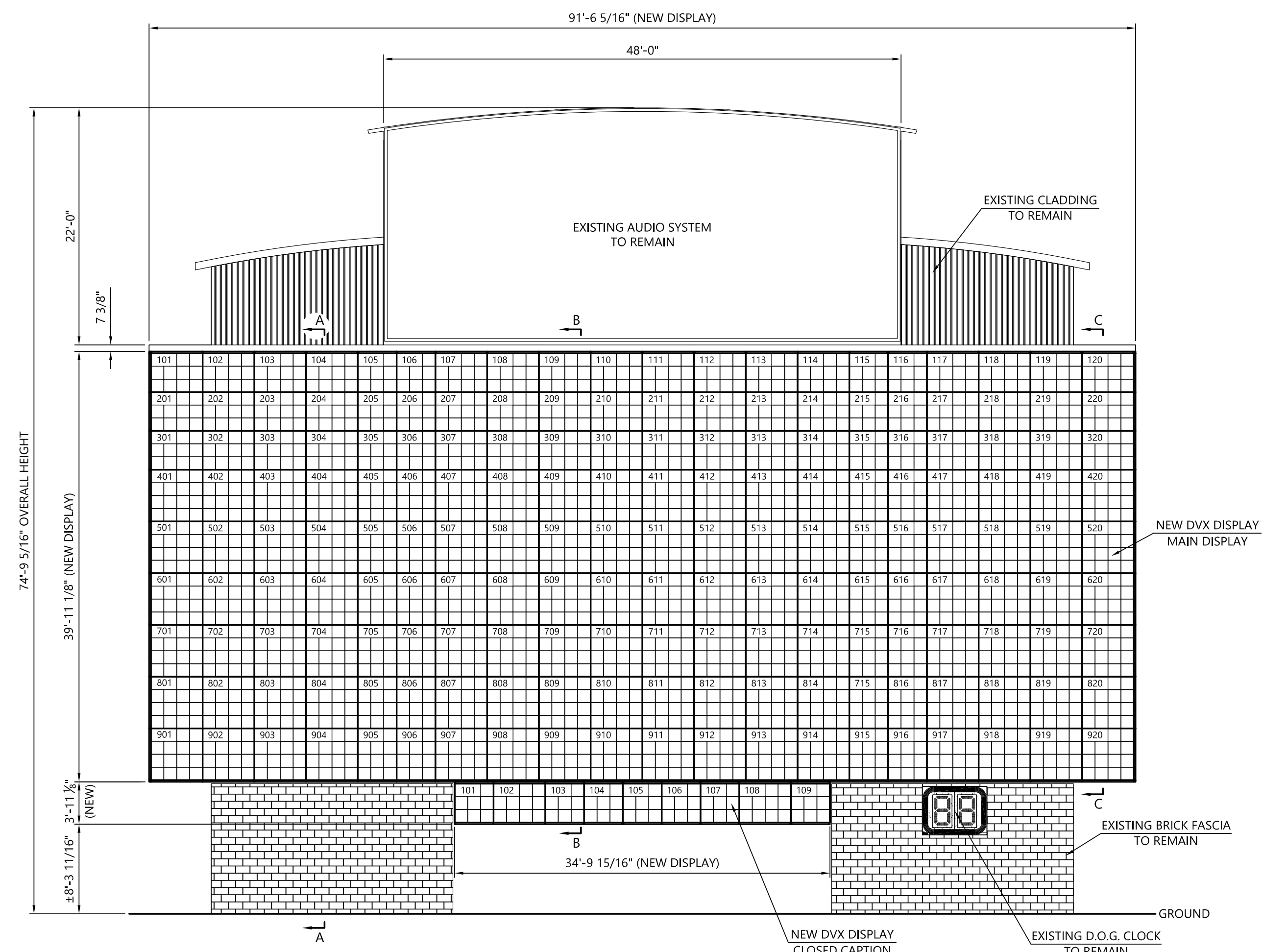
CP241291

SHEET

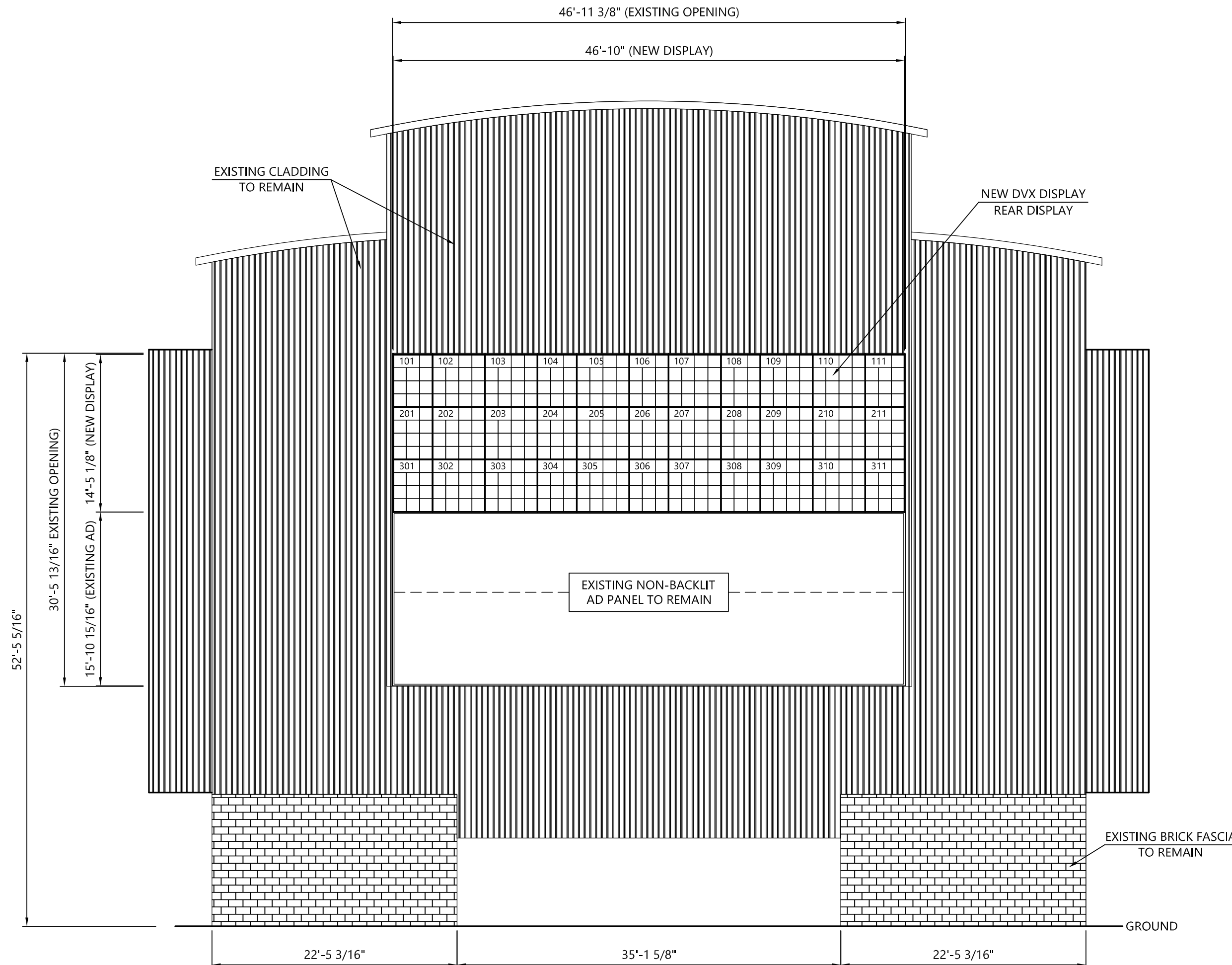
G001



DRAWN BY: CHECKED BY:

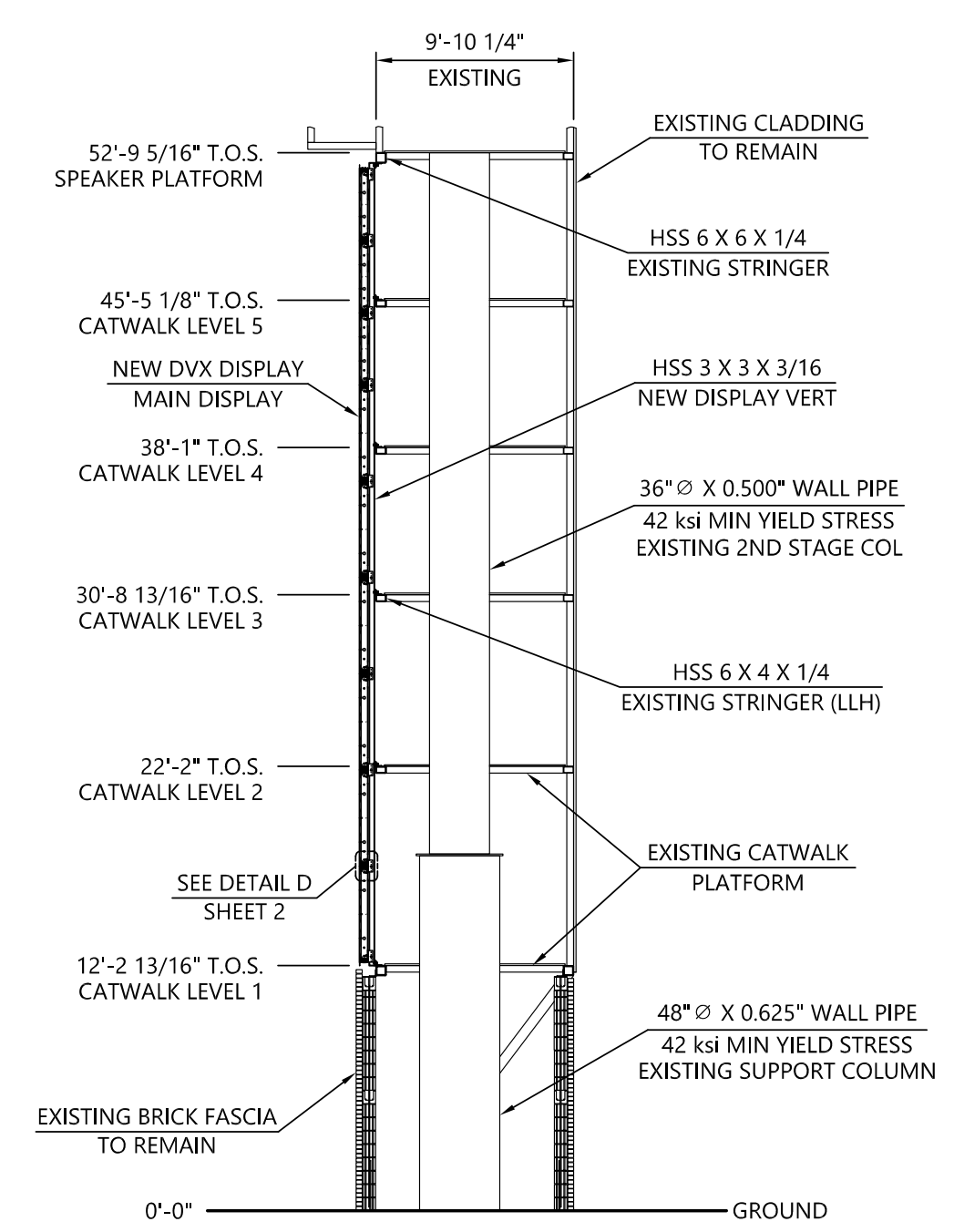


(EXISTING COLUMNS & FOOTINGS SEE NOTICE)
DISPLAY ELEVATION VIEW

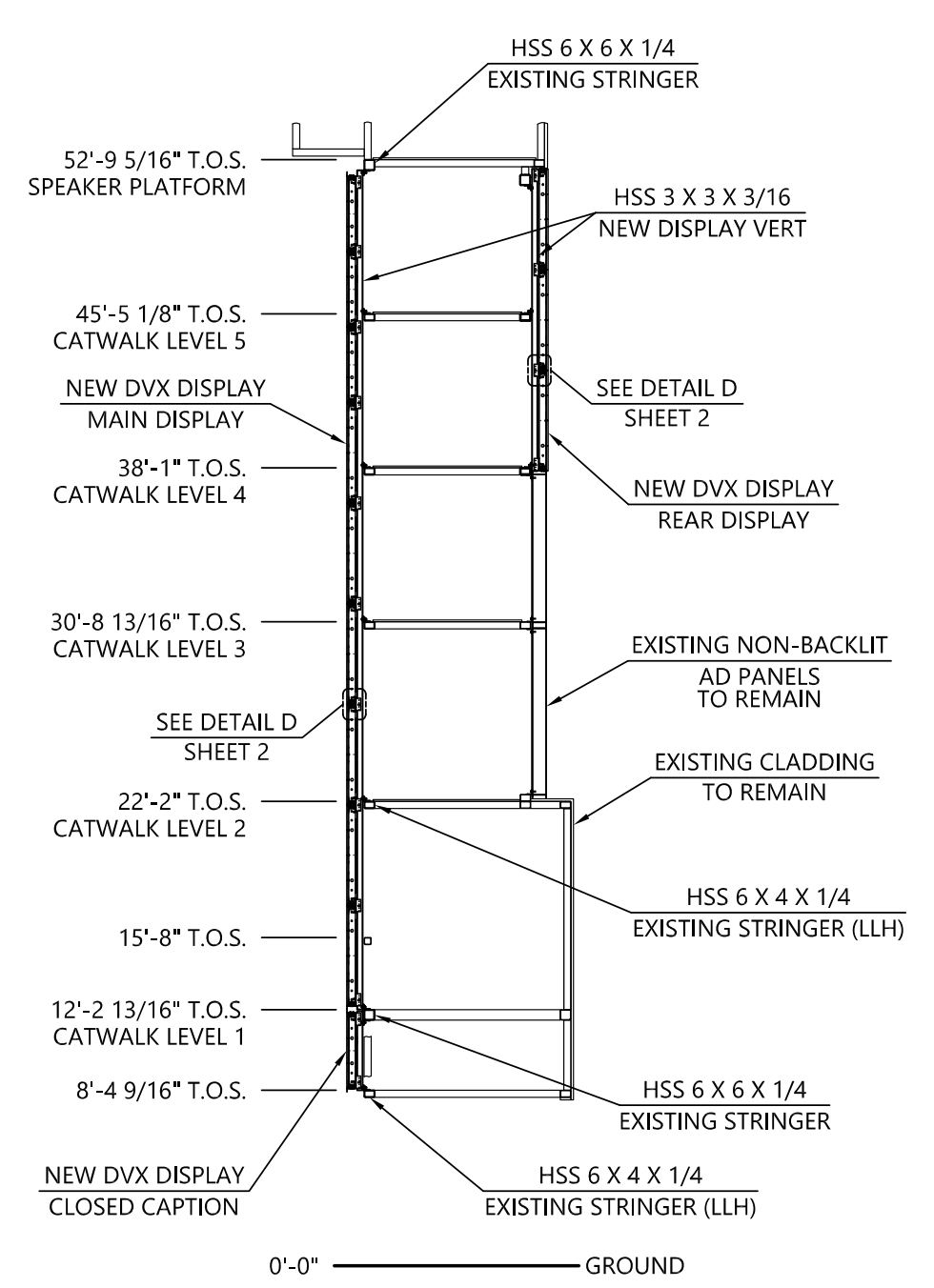


(EXISTING COLUMNS & FOOTINGS SEE NOTICE)
DISPLAY REAR ELEVATION VIEW

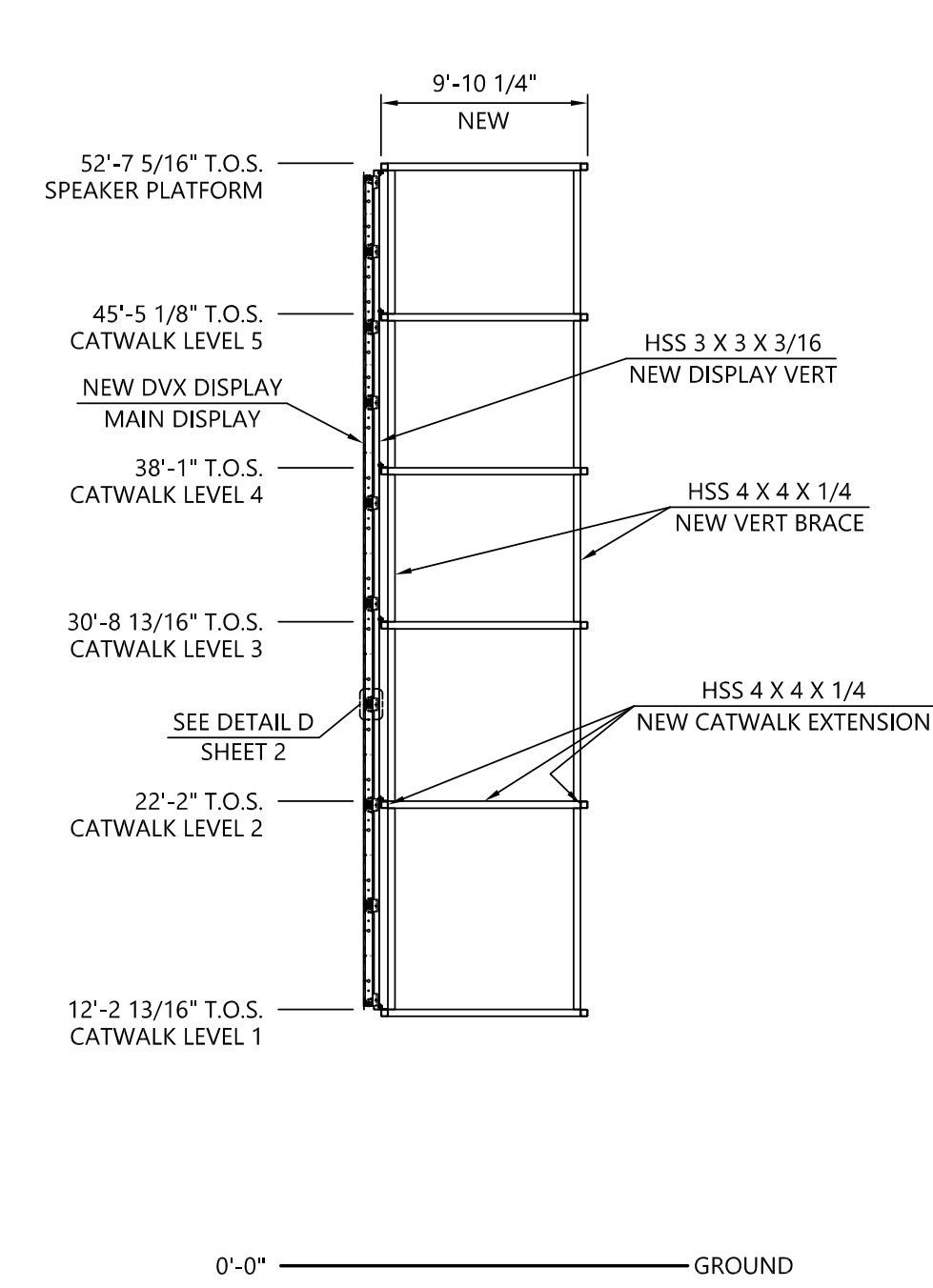
- GENERAL NOTES:**
- All design, fabrication, installation and construction shall conform to the following specifications, unless specifically noted otherwise on the drawing:
 - The 2021 International Building Code
 - American Concrete Institute Building Code Requirements for Reinforced Concrete (318-19)
 - American Institute of Steel Construction, Inc Manual of Steel Construction (360-16)
 - American Welding Society ANSI/AWS D1.1 & D1.2 Structural Welding Code - Steel or Alum
 - The Aluminum Association Design Manual, 2020 Edition.
 - All steel components shall be as listed below, unless noted otherwise:
 - All structural aluminum shall be 6061-T6, 6063-T5, 5052-H32, or equal.
 - All rolled steel shapes, plates and bars shall be ASTM A36, or equal.
 - All steel I-beams shall be ASTM A572, Grade 50, or ASTM A992, Grade 50, or equal.
 - All steel structural tubing shall be ASTM A500, Grade C, or equal.
 - Mechanical fasteners shall be installed according to manufacturers specifications.
 - Threaded rod for display attachment shall be ASTM A307, A36, Grade 2, or equal.
 - All bolted connections shall be made with ASTM A325 Bolts, or equal.
 - All stainless steel bolts shall be in accordance with AISI 304 or 316.
 - All ferrous to non-ferrous materials shall be adequately separated to prevent corrosion.
 - All exposed materials shall be properly protected from weathering and/or corrosion.
 - All field welds shall be made by a welder certified in the specified position.
 - Steel welds shall be made with E70XX electrode, or equal.
 - All welds shall be made in a sequence that will balance the applied heat of welding while the welding progresses.
 - All aluminum welding shall be performed with 4043 or 5356 aluminum alloy.
 - The structure has been designed to support its own weight, the noted weights of the attached cabinets, and the loads listed below:
 - 110 mph (3-sec gust) design wind speed with a design pressure of 42.9 psf according to ASCE 7-16. (Exposure C - Risk Cat II)
 - Seismic design was considered as per ASCE 7-16 assuming $S_{ds}=0.173$, $I=1.0$ and Site Class D-default.
 - Cornerstone is in no way responsible for the safety of the work site during installation. The installer shall take appropriate measures to make sure that the erection of the structure is performed using methods in compliance with applicable OSHA regulations.
 - If existing and proposed conditions are not as detailed in this design drawing the installer shall cease work and notify Cornerstone immediately.
 - Cornerstone will not be performing on-site inspections or verification of conditions. It is the responsibility of the installer, the structure owner, and the property owner to identify the on-site conditions and to contact Cornerstone with any discrepancies or concerns.
 - Any deviation from these plans or non-compliance with the general notes without written approval from Cornerstone will render the entire design certification to be void.



WITH NEW FRONT DISPLAYS ONLY
SECTION A-A



WITH NEW FRONT MAIN AND CAPTION AND NEW REAR DISPLAYS
SECTION B-B



AT FRAME EXTENSIONS
SECTION C-C

EXISTING STRUCTURE NOTE:
THE EXISTING STRUCTURAL COMPONENTS ARE SHOWN AS DETAILED IN CORNERSTONE DRAWING D3053R, DATED 09/17/2009. THIS IS NOT INTENDED TO BE AN AS-BUILT DRAWING. THE INSTALLER SHALL FIELD CONFIRM THE SIZE, LOCATION, AND SPACING OF THE EXISTING COMPONENTS AND SHALL INSPECT THESE COMPONENTS FOR SIGNS OF CORROSION, CRACKING OR OTHER DAMAGE AND THEN REPAIR, REPAINT, OR REPLACE DAMAGED COMPONENTS AS NEEDED. DO NOT REMOVE, CUT, OR NOTCH EXISTING COMPONENTS WITHOUT APPROVAL FROM CORNERSTONE AND DAKTRONICS.

THE INSTALLER SHALL CAREFULLY INSPECT THE EXISTING BEAM SEAT/SADDLE/COLUMN CONNECTIONS AS DETAILED ON SHEET 3 OF D3053R AND CONFIRM THAT THESE CONNECTIONS ARE FULLY WELDED AND INSTALLED AS ORIGINALLY DESIGNED AND DETAILED.

THE INSTALLER SHALL CONTACT CORNERSTONE AND DAKTRONICS WITH QUESTIONS, DISCREPANCIES, OR CONCERNS ABOUT THE EXISTING STRUCTURE.

NOTICE OF RESPONSIBILITY:
BY THIS DRAWING, CORNERSTONE ENGINEERING, INC. IS RESPONSIBLE ONLY FOR THE STRUCTURAL DESIGN OF THE NEW SUPPORT FRAME COMPONENTS AND FOR THE DISPLAY ATTACHMENT AS SHOWN. THE INCREASE IN LOADS IMPARTED INTO THE EXISTING COLUMNS, FOUNDATIONS, AND SUPPORT FRAME BY THE PROPOSED NEW AND EXISTING DISPLAYS AND NEW SUPPORT FRAMES ARE WITHIN THE LIMITS FOR MODIFICATIONS AS PER THE INTERNATIONAL EXISTING BUILDING CODE. SEE EXISTING STRUCTURE NOTE. THE ELECTRICAL AND THE MECHANICAL PERFORMANCE OF THE SYSTEM IS THE RESPONSIBILITY OF OTHERS.

JAMES E. WRIGHT, JR.
Digitally signed by James Wright
Date: 2024.03.27 13:56:55 -0400
JAMES E. WRIGHT, JR.
NUMBER E-29952
REGISTERED PROFESSIONAL ENGINEER

DAKTRONICS, INC.
201 Daktronics Dr - Brookings, SD 57006
Memorial Stadium North Concourse Video Board Replacement
600 E Stadium Blvd. - Columbia, Missouri

CORNERSTONE ENGINEERING, INC.
1020 William Blount Drive - Maryville, TN 37801
(865) 273-2688 - www.CornerstoneTN.com

Project #: 240068 Dwg #: D7570R Date: 03/27/2024
Drawn By: RF Scale: 1/8"=1'-0" Sheet: 1 of 6

DETAIL D NOTE:
 EACH DVX DISPLAY SECTION SHALL BE SUPPORTED IN EACH CORNER.
 ATTACHMENTS ALONG HORIZONTAL SEAMS WILL SHARE MTG BRACKETS WITH ADJACENT SECTIONS ABOVE AND BELOW AND SHOWN IN DETAIL D. DISPLAY MTG BRACKETS ALONG THE TOP AND BOTTOM OF THE OVERALL DISPLAY WILL ATTACH TO THE REAR OF THE DISPLAY CABINET WITH ONE BOLT AND TO THE SIDE OF THE VERT TUBE WITH TWO SCREWS IN THE HOLES NEAREST THE BOLT. DISPLAY CABINETS SHALL BE NEAR TO FLUSH AGAINST THE FACE OF THE VERT TUBE WITH A MAXIMUM GAP OF 1" BETWEEN THE REAR OF THE DISPLAY AND THE HSS VERT.

MAIN DISPLAY											
DVX-2102-13HD-924X2128											
SECTION #	SECTION SIZE (HXW-MODS)	SECTION SIZE (HXW-PIXELS)	SECTION WEIGHT (LB)	SECTION #	SECTION SIZE (HXW-MODS)	SECTION SIZE (HXW-PIXELS)	SECTION WEIGHT (LB)	SECTION #	SECTION SIZE (HXW-MODS)	SECTION SIZE (HXW-PIXELS)	SECTION WEIGHT (LB)
101	3X4	84X112	156	401	4X4	112X112	208	701	4X4	112X112	208
102	3X4	84X112	156	402	4X4	112X112	208	702	4X4	112X112	208
103	3X4	84X112	156	403	4X4	112X112	208	703	4X4	112X112	208
104	3X4	84X112	156	404	4X4	112X112	208	704	4X4	112X112	208
105	3X3	84XB4	117	405	4X3	112XB4	156	705	4X3	112XB4	156
106	3X3	84XB4	117	406	4X3	112XB4	156	706	4X3	112XB4	156
107	3X4	84X112	156	407	4X4	112X112	208	707	4X4	112X112	208
108	3X4	84X112	156	408	4X4	112X112	208	708	4X4	112X112	208
109	3X4	84X112	156	409	4X4	112X112	208	709	4X4	112X112	208
110	3X4	84X112	156	410	4X4	112X112	208	710	4X4	112X112	208
111	3X4	84X112	156	411	4X4	112X112	208	711	4X4	112X112	208
112	3X4	84X112	156	412	4X4	112X112	208	712	4X4	112X112	208
113	3X4	84X112	156	413	4X4	112X112	208	713	4X4	112X112	208
114	3X4	84X112	156	414	4X4	112X112	208	714	4X4	112X112	208
115	3X3	84XB4	117	415	4X3	112XB4	156	715	4X3	112XB4	156
116	3X3	84XB4	117	416	4X3	112XB4	156	716	4X3	112XB4	156
117	3X4	84X112	156	417	4X4	112X112	208	717	4X4	112X112	208
118	3X4	84X112	156	418	4X4	112X112	208	718	4X4	112X112	208
119	3X4	84X112	156	419	4X4	112X112	208	719	4X4	112X112	208
120	3X4	84X112	156	420	4X4	112X112	208	720	4X4	112X112	208
201	3X4	84X112	156	501	4X4	112X112	208	801	4X4	112X112	208
202	3X4	84X112	156	502	4X4	112X112	208	802	4X4	112X112	208
203	3X4	84X112	156	503	4X4	112X112	208	803	4X4	112X112	208
204	3X4	84X112	156	504	4X4	112X112	208	804	4X4	112X112	208
205	3X3	84XB4	117	505	4X3	112XB4	156	805	4X3	112XB4	156
206	3X3	84XB4	117	506	4X3	112XB4	156	806	4X3	112XB4	156
207	3X4	84X112	156	507	4X4	112X112	208	807	4X4	112X112	208
208	3X4	84X112	156	508	4X4	112X112	208	808	4X4	112X112	208
209	3X4	84X112	156	509	4X4	112X112	208	809	4X4	112X112	208
210	3X4	84X112	156	510	4X4	112X112	208	810	4X4	112X112	208
211	3X4	84X112	156	511	4X4	112X112	208	811	4X4	112X112	208
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213	3X4	84X112	156	513	4X4	112X112	208	813	4X4	112X112	208
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215	3X3	84XB4	117	515	4X3	112XB4	156	815	4X3	112XB4	156
216	3X3	84XB4	117	516	4X3	112XB4	156	816	4X3	112XB4	156
217	3X4	84X112	156	517	4X4	112X112	208	817	4X4	112X112	208
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219	3X4	84X112	156	519	4X4	112X112	208	819	4X4	112X112	208
220	3X4	84X112	156	520	4X4	112X112	208	820	4X4	112X112	208
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302	3X4	84X112	156	602	4X4	112X112	208	902	4X4	112X112	208
303	3X4	84X112	156	603	4X4	112X112	208	903	4X4	112X112	208
304	3X4	84X112	156	604	4X4	112X112	208	904	4X4	112X112	208
305	3X3	84XB4	117	605	4X3	112XB4	156	905	4X3	112XB4	156
306	3X3	84XB4	117	606	4X3	112XB4	156	906	4X3	112XB4	156
307	3X4	84X112	156	607	4X4	112X112	208	907	4X4	112X112	208
308	3X4	84X112	156	608	4X4	112X112	208	908	4X4	112X112	208
309	3X4	84X112	156	609	4X4	112X112	208	909	4X4	112X112	208
310	3X4	84X112	156	610	4X4	112X112	208	910	4X4	112X112	208
311	3X4	84X112	156	611	4X4	112X112	208	911	4X4	112X112	208
312	3X4	84X112	156	612	4X4	112X112	208	912	4X4	112X112	208
313	3X4	84X112	156	613	4X4	112X112	208	913	4X4	112X112	208
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315	3X3	84XB4	117	615	4X3	112XB4	156	915	4X3	112XB4	156
316	3X3	84XB4	117	616	4X3	112XB4	156	916	4X3	112XB4	156
317	3X4	84X112	156	617	4X4	112X112	208	917	4X4	112X112	208
318	3X4	84X112	156	618	4X4	112X112	208	918	4X4	112X112	208
319	3X4	84X112	156	619	4X4	112X112	208	919	4X4	112X112	208
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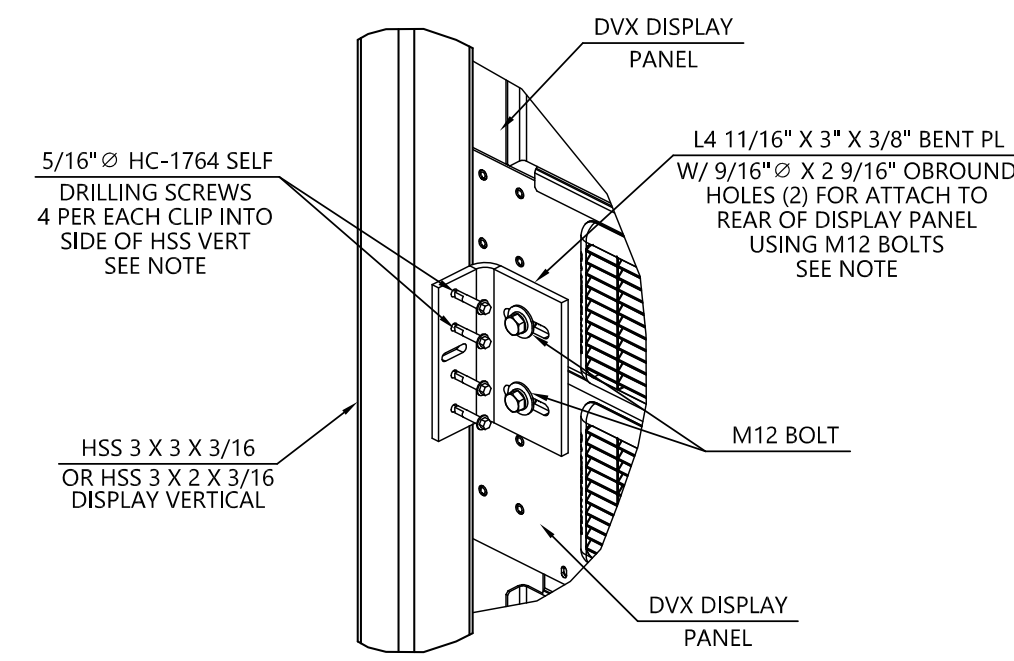
DVX-2102-13HD-924X2128 TOTALS			
# OF SECTIONS	DISPLAY SIZE (HXW-MODS)	DISPLAY SIZE (HXW-PIXELS)	TOTAL WEIGHT (LB)
100	33X76	924X2128	32604

REAR BILLBOARD DISPLAY			
DVX-2102-13HD-336X1092			
SECTION #	SECTION SIZE (HXW-MODS)	SECTION SIZE (HXW-PIXELS)	SECTION WEIGHT (LB)
101	4X3	112XB4	156
102	4X4	112X112	208
103	4X4	112X112	208
104	4X3	112XB4	156
105	4X4	112X112	208
106	4X3	112XB4	156
107	4X4	112X112	208
108	4X3	112XB4	156
109	4X4	112X112	208
110	4X4	112X112	208
111	4X3	112XB4	156
201	4X3	112XB4	156
202	4X4	112X112	208
203	4X4	112X112	208
204	4X3	112XB4	156
205	4X4	112X112	208
206	4X3	112XB4	156
207	4X4	112X112	208
208	4X3	112XB4	156
209	4X4	112X112	208
210	4X4	112X112	208
211	4X3	112XB4	156
301	4X3	112XB4	156
302	4X4	112X112	208
303	4X4	112X112	208
304	4X3	112XB4	156
305	4X4	112X112	208
306	4X3	112XB4	156
307	4X4	112X112	208
308	4X3	112XB4	156
309	4X4	112X112	208
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311	4X3	112XB4	156

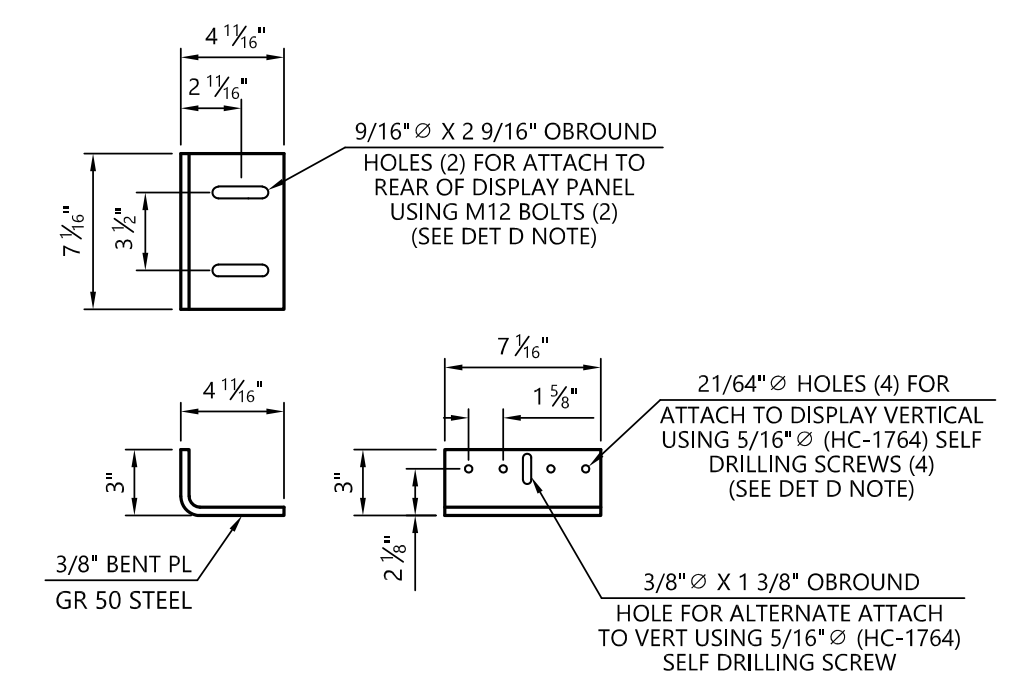
DVX-2102-13HD-336X1092 TOTALS			
# OF SECTIONS	DISPLAY SIZE (HXW-MODS)	DISPLAY SIZE (HXW-PIXELS)	TOTAL WEIGHT (LB)
33	12X39	336X1092	6084

CLOSED CAPTIONING DISPLAY			
DVX-2102-13HD-84X812			
SECTION #	SECTION SIZE (HXW-MODS)	SECTION SIZE (HXW-PIXELS)	SECTION WEIGHT (LB)
101	3X3	84XB4	117
102	3X4	84X112	156
103	3X3	84XB4	117
104	3X3	84XB4	117
105	3X3	84XB4	117
106	3X3	84XB4	117
107	3X3	84XB4	117
108	3X4	84X112	156
109	3X3	84XB4	117

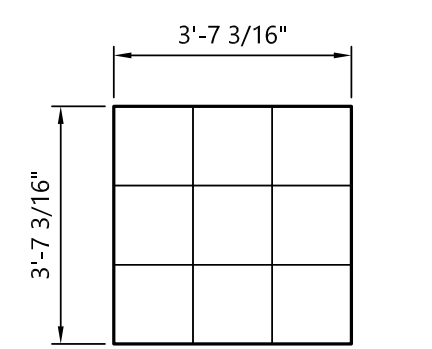
DVX-2102-13HD-84X812 TOTALS			
# OF SECTIONS	DISPLAY SIZE (HXW-MODS)	DISPLAY SIZE (HXW-PIXELS)	TOTAL WEIGHT (LB)
9	3X3	84X812	1131



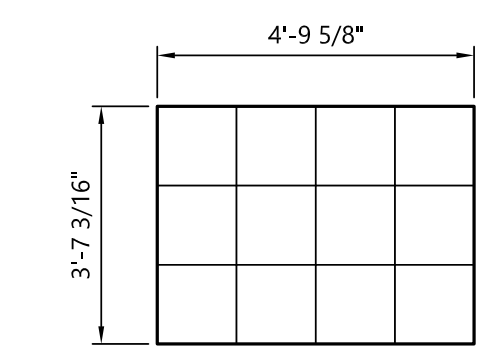
TYPICAL DVX DISPLAY ATTACHMENT
 DETAIL D ISOMETRIC VIEW
 N.T.S.



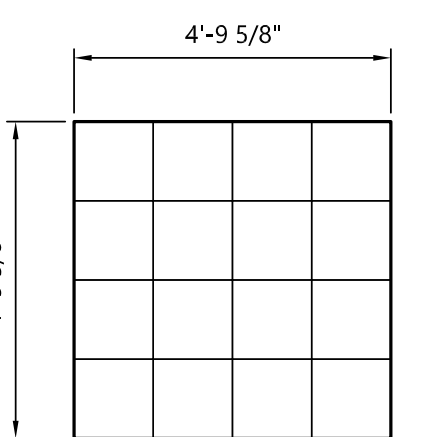
DVX DISPLAY MTG BRACKET DETAIL
 1/8"=1"



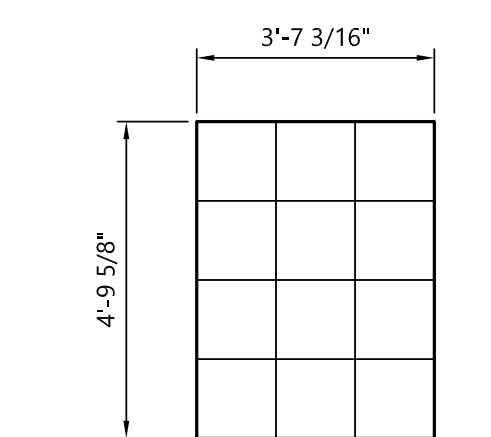
3X3 MOD ELEVATION VIEW
 3/8"=1'-0"



3X4 MOD ELEVATION VIEW
 3/8"=1'-0"

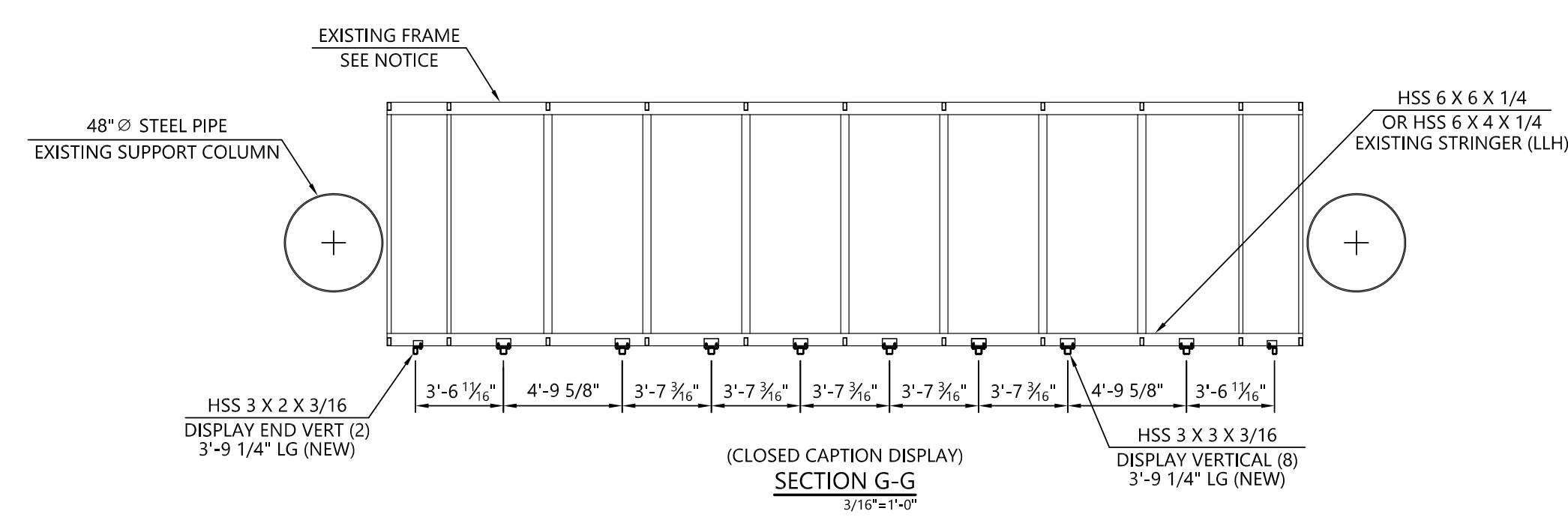
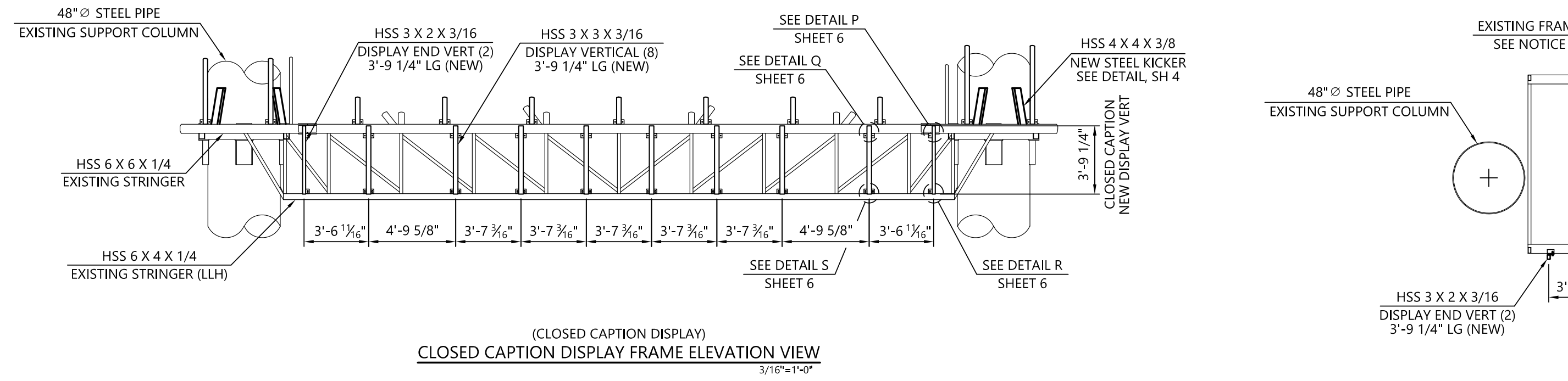
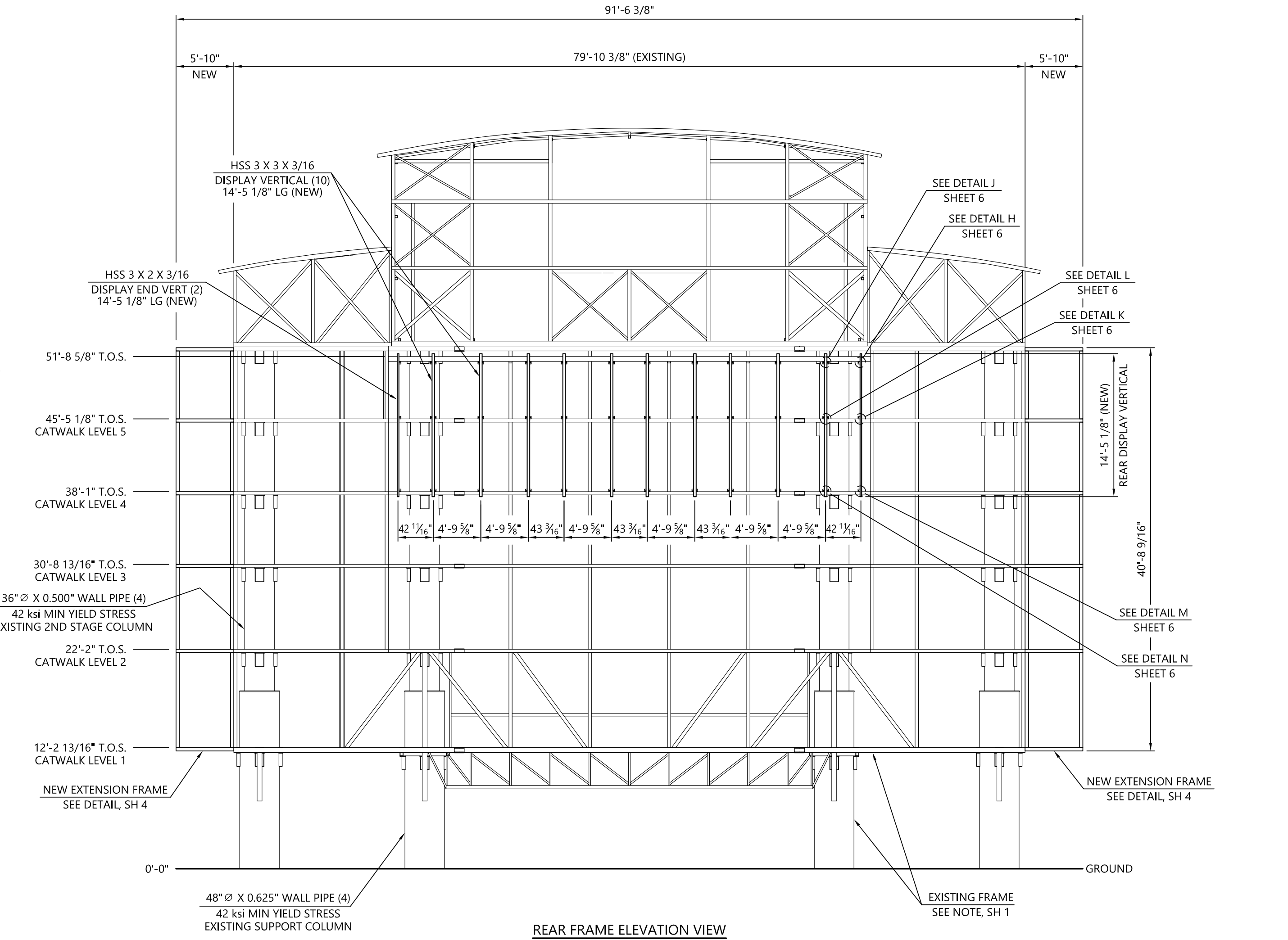
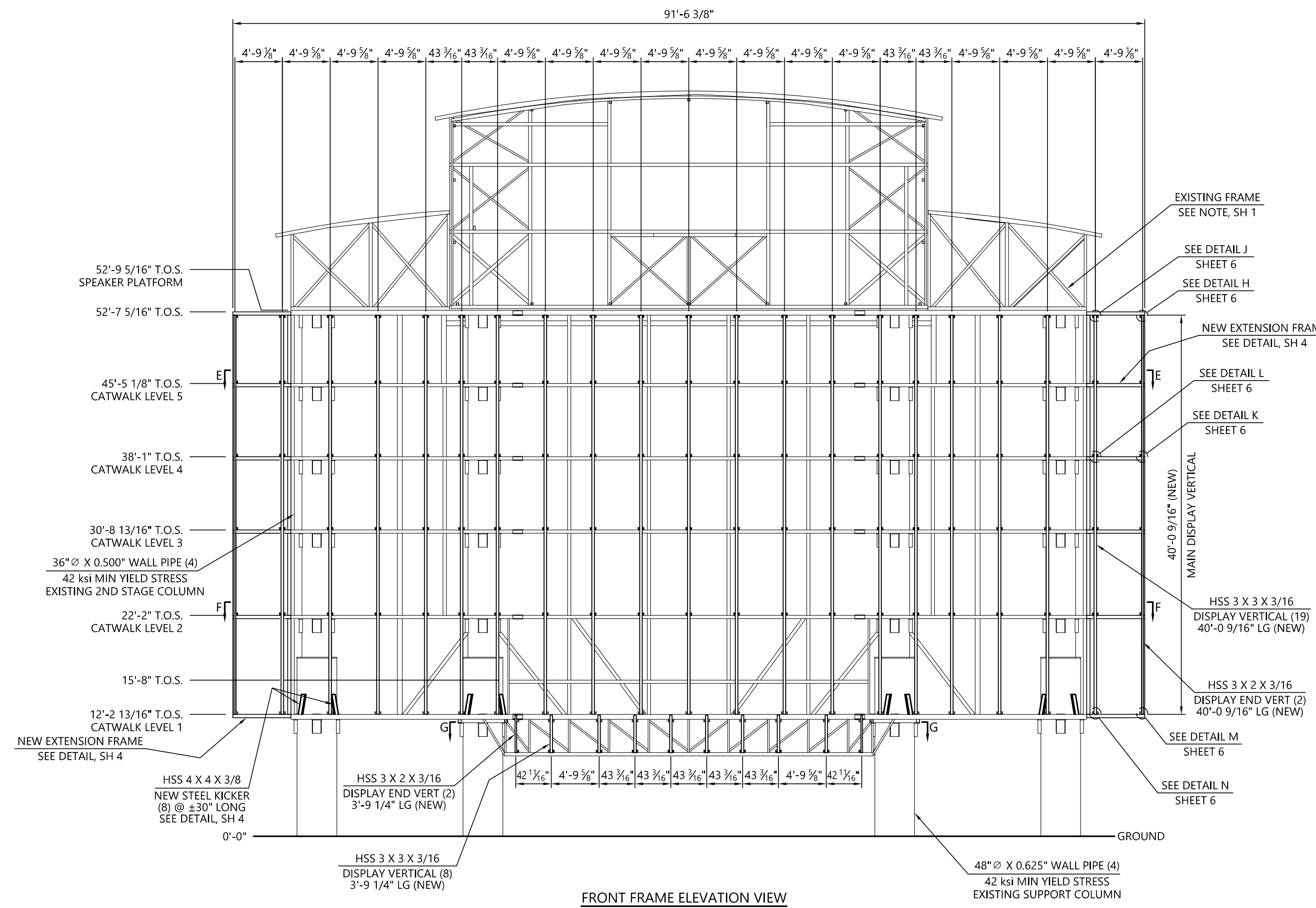
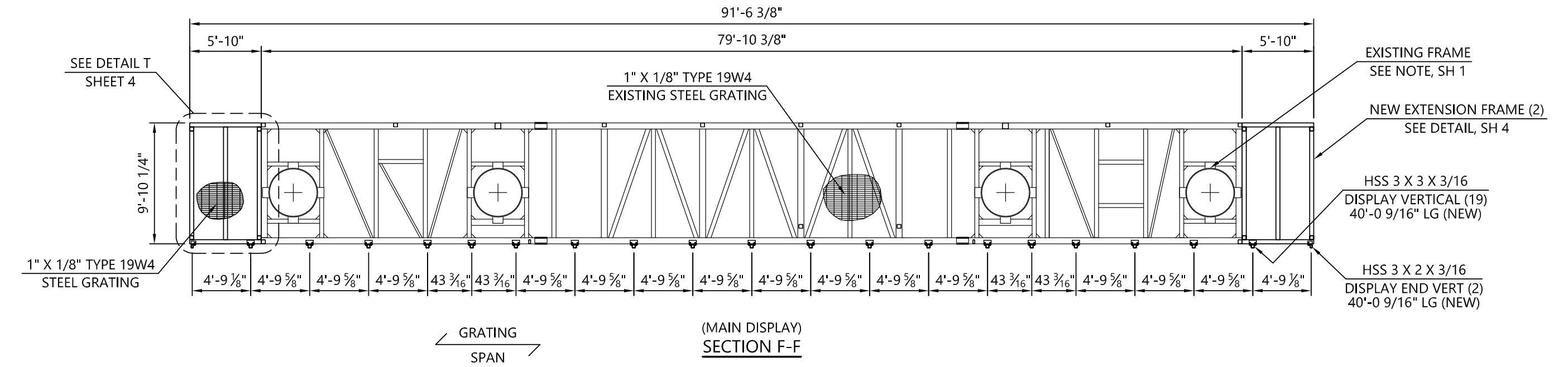
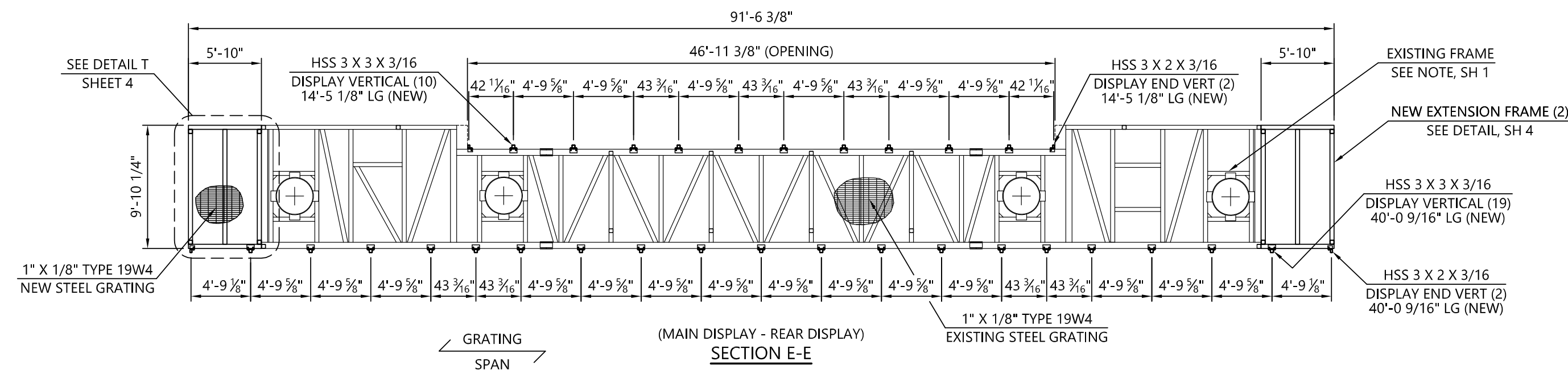


4X4 MOD ELEVATION VIEW
 3/8"=1'-0"



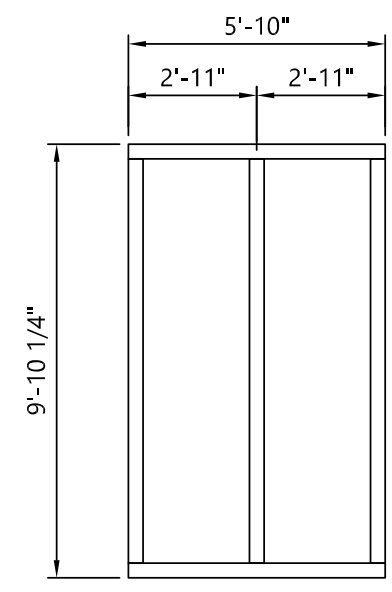
4X3 MOD ELEVATION VIEW
 3/8"=1'-0"

JAMES E. WRIGHT, JR. Digitally signed by James Wright Date: 2024.03.27 13:59:04-0500 	DAKTRONICS, INC. 201 Daktronics Dr - Brookings, SD 57006 Memorial Stadium North Concourse Video Board Replacement 600 E Stadium Blvd. - Columbia, Missouri	
	 CORNERSTONE ENGINEERING, INC. 1020 William Blount Drive - Maryville, TN 37801 (865) 273-2688 - www.CornerstoneTN.com	
Project #: 240068 Drawn By: RF	Dwg #: D7570R Scale: 1/8"=1'-0"	Date: 03/27/2024 Sheet: 2 of 6

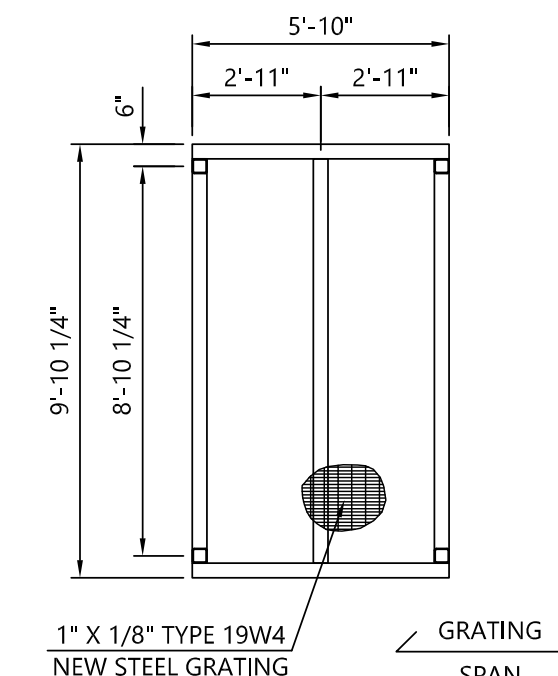


<p>JAMES E. WRIGHT, JR. Digitally signed by James Wright Date: 2024.03.27 13:49:03 -04'00'</p>	<p>DAKTRONICS, INC. 201 Daktronics Dr - Brookings, SD 57006</p>
	<p>Memorial Stadium North Concourse Video Board Replacement 600 E Stadium Blvd. - Columbia, Missouri</p>
<p>CORNERSTONE ENGINEERING, INC. 1020 William Blount Drive - Maryville, TN 37801 (865) 273-2688 - www.CornerstoneTN.com</p>	<p>S3</p>
<p>Project #: 240068 Dwg #: D7570R Date: 03/27/2024 Drawn By: RF Scale: 1/8"=1'-0" Sheet: 3 of 6</p>	<p>MO P.E. # E-29952</p>

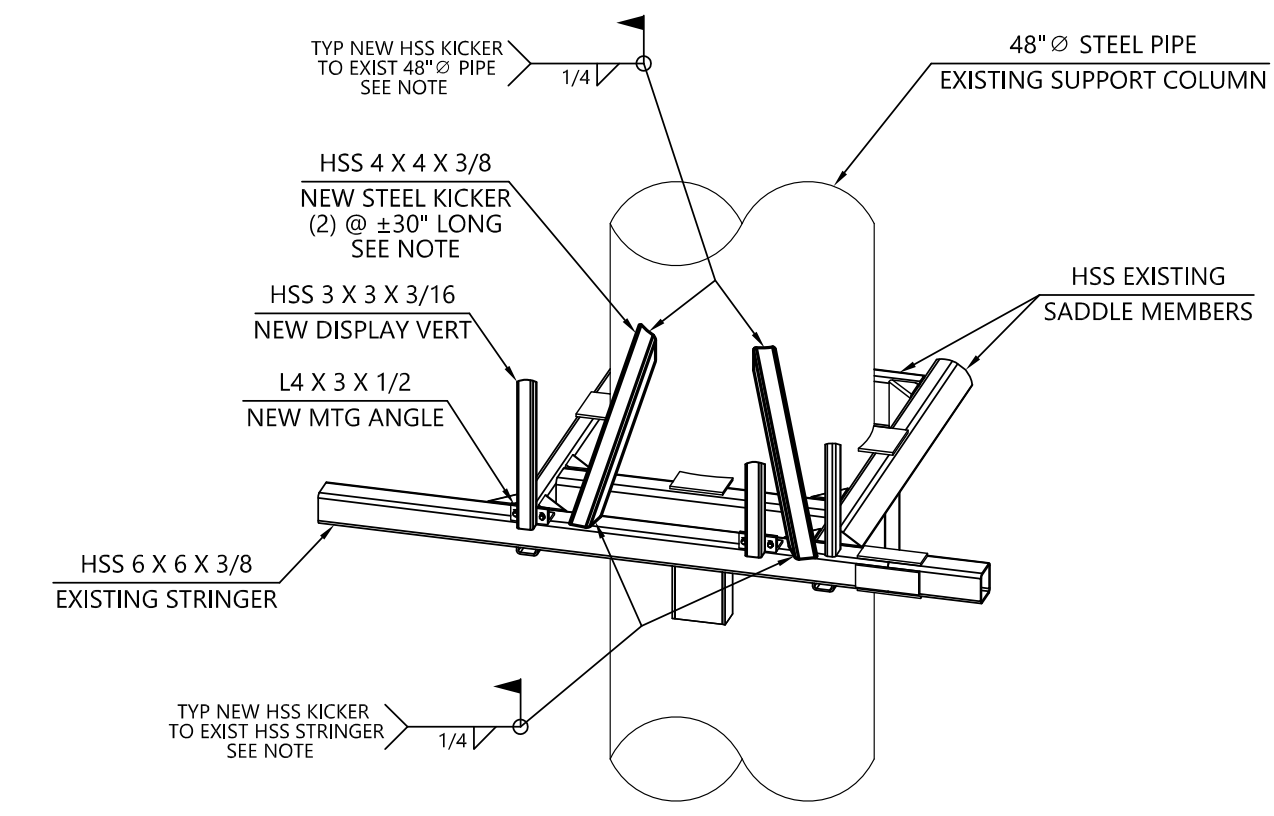
NEW KICKER NOTE:
 AT EACH OF THE FOUR COLUMNS FOR THE SADDLE/BEAM SEAT/COLUMN CONNECTIONS ON LEVEL 1, TWO NEW HSS4X4X3/8 STEEL VERTICAL KICKERS SHALL BE INSTALLED AS SHOWN BELOW. THE KICKERS SHALL BE ALIGNED SO THAT THE TOP OF THE TUBE IS FLUSH AGAINST THE FRONT OF THE 48" Ø PIPE AND THE BOTTOM OF THE TUBE IS FLUSH AGAINST THE TOP OF THE FRONT HSS6X6 STRINGER. EACH END OF THE KICKER SHALL BE MITERED, MOON CUT, AND/OR NOTCHED AS NEEDED TO FIT SNUGLY AND THEN WELDED ALL AROUND AS SHOWN. THE LOCATION OF THE KICKERS SHALL BE FIELD ADJUSTED TO AVOID THE EXISTING VERTICAL MEMBERS AND THE NEW DISPLAY VERTICALS AND THEIR MOUNTING ANGLES. THE INSTALLER SHALL CONTACT CORNERSTONE AND DAKTRONICS WITH QUESTIONS, DISCREPANCIES, OR CONCERNS ABOUT THESE CONNECTIONS.



NEW END FRAME PLAN VIEW
 1/4"=1'-0"

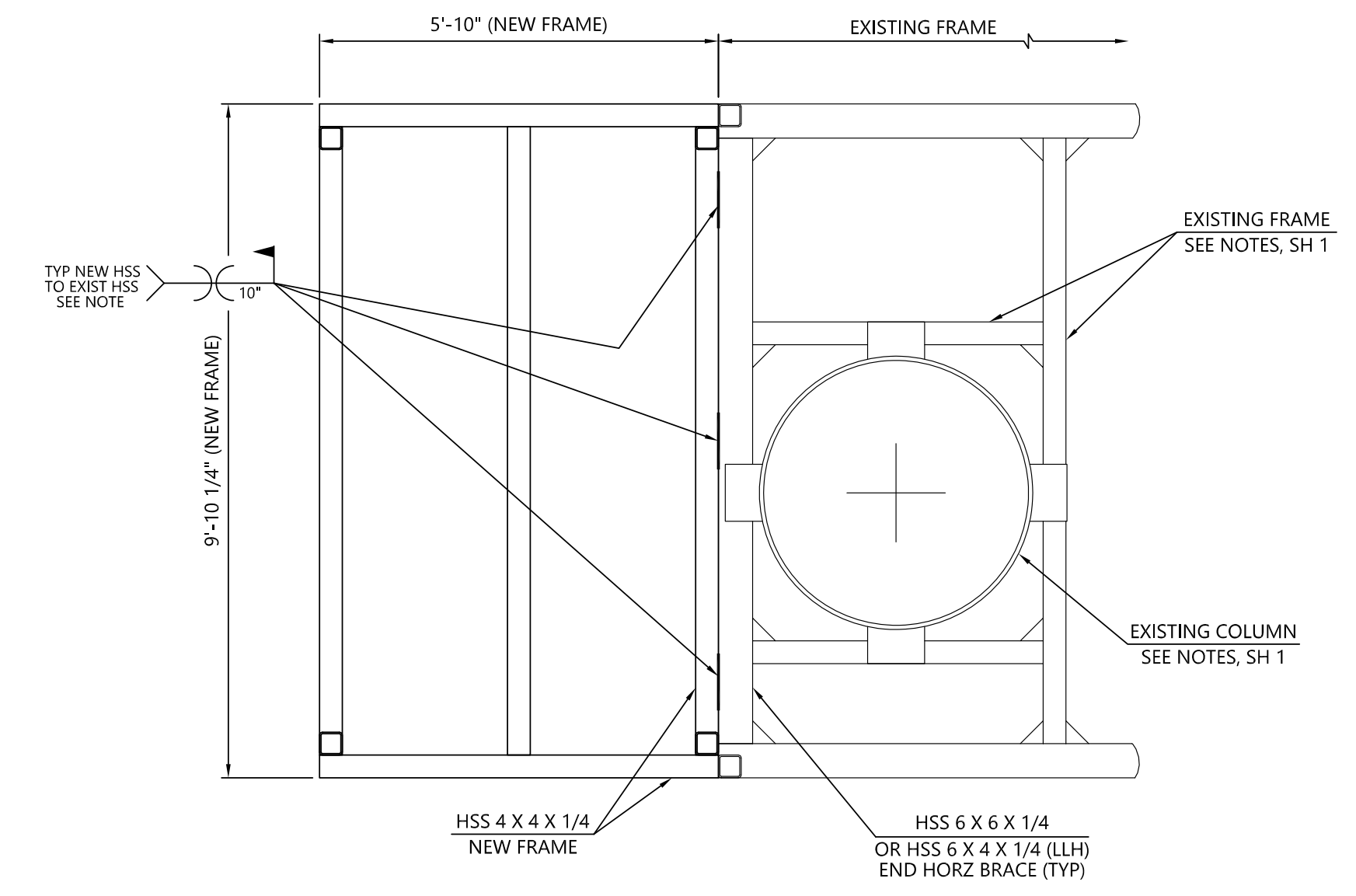


SECTION U-U
 1/4"=1'-0"

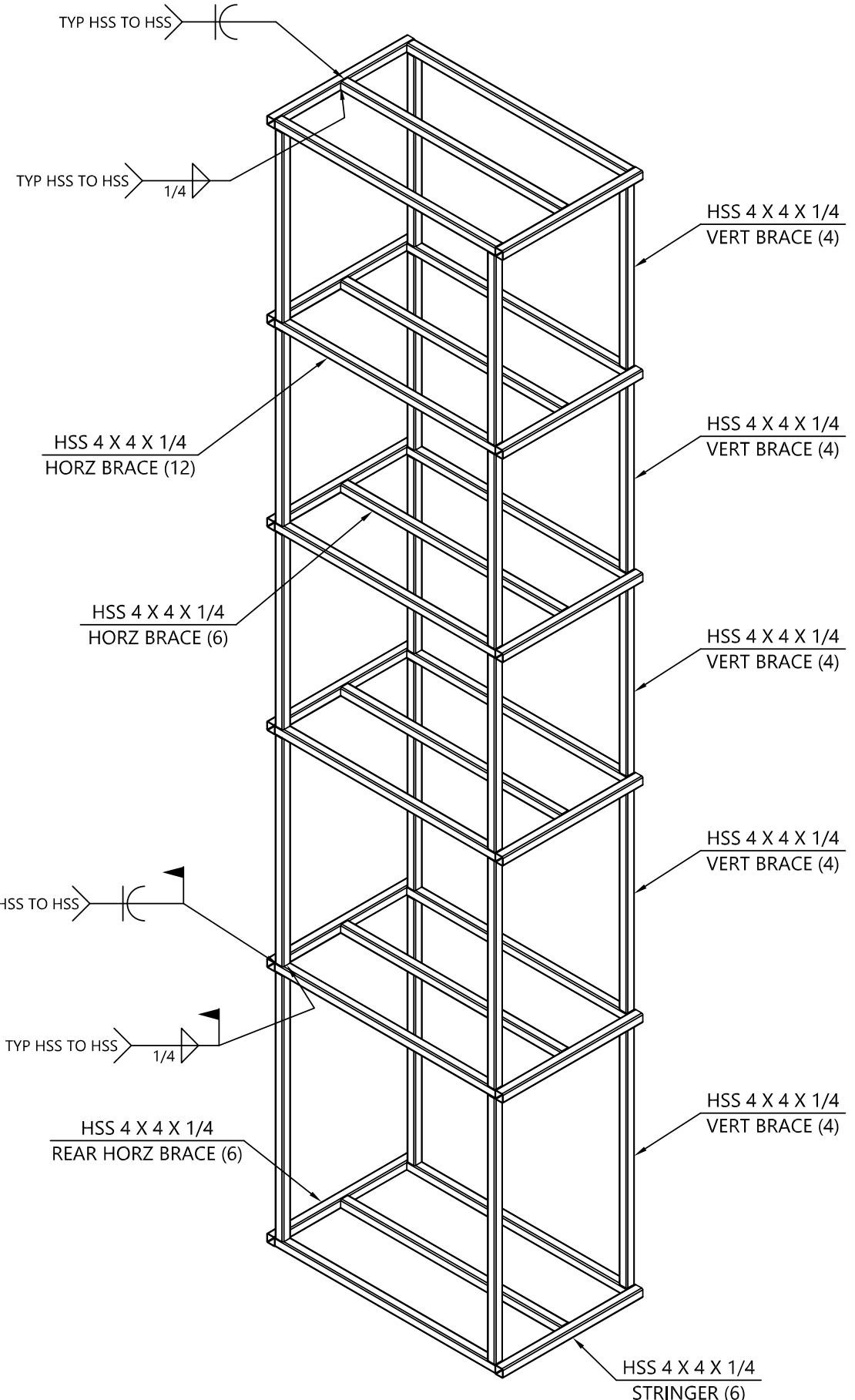


(SIMILAR 4 PLACES - LEVEL 1 ONLY)
LEVEL 1 SADDLE NEW REINFORCEMENT DETAIL
 N.T.S.

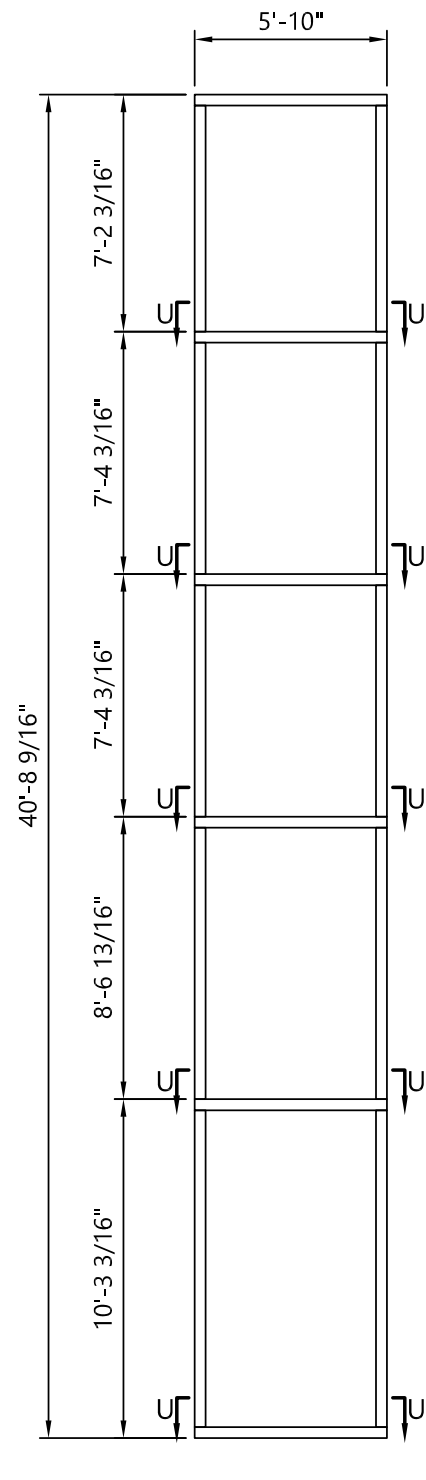
DETAIL T NOTE:
 THE NEW LEFT AND RIGHT END FRAMES SHALL BE LIFTED IN PLACE SO THAT EACH OF THE SIX LEVELS ON THE NEW FRAMES ALIGN VERTICALLY AND HORIZONTALLY WITH THE EXISTING STEEL PLATFORMS. THE INSTALLER SHALL CONFIRM THAT THE NEW FRAMES ARE FLUSH AND IN CONTACT WITH THE EXISTING END HORZ HSS ACROSS THE WIDTH OF THE FRAME. THE NEW AND EXISTING FRAMES SHALL BE WELDED TOP AND BOTTOM AS SHOWN ALONG THE SEAM. THE INSTALLER SHALL CONTACT CORNERSTONE AND DAKTRONICS WITH QUESTIONS, DISCREPANCIES, OR CONCERNS ABOUT THESE CONNECTIONS.



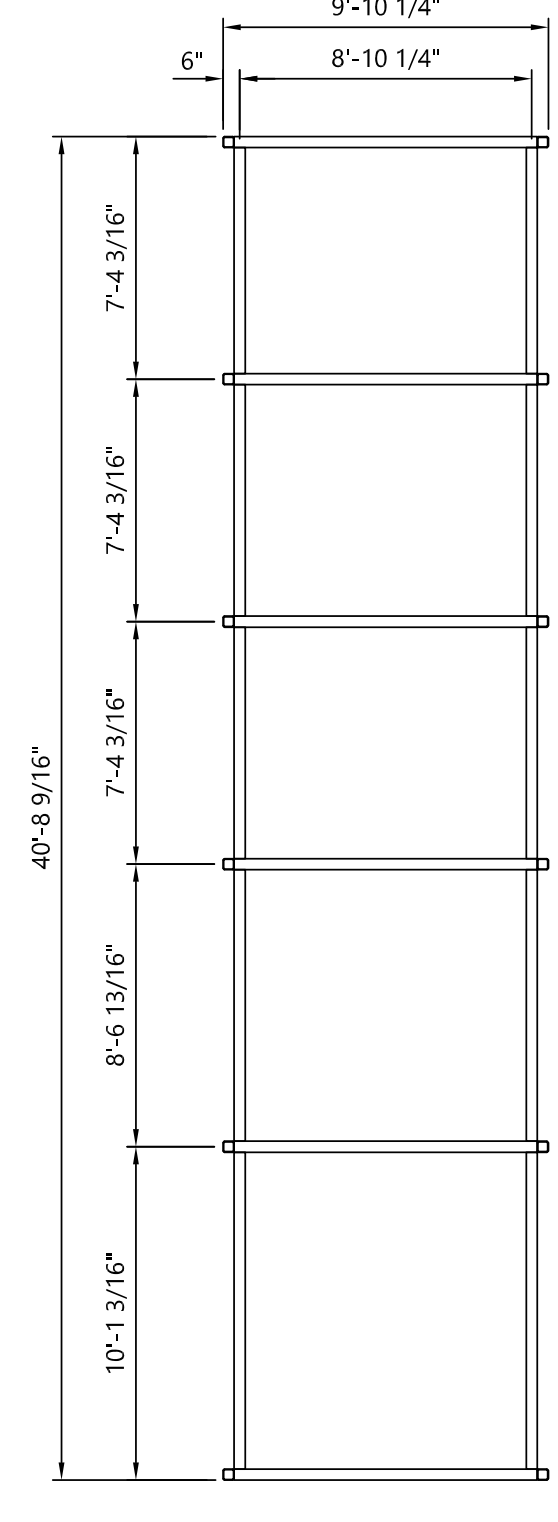
SIMILAR 6 PLACES FOR LEFT SIDE, MIRRORED 6 PLACES FOR RIGHT SIDE
DETAIL T
 1/2"=1'-0"



(STEEL - TYPICAL 2 PLACES)
NEW END FRAME ISOMETRIC VIEW
 N.T.S.



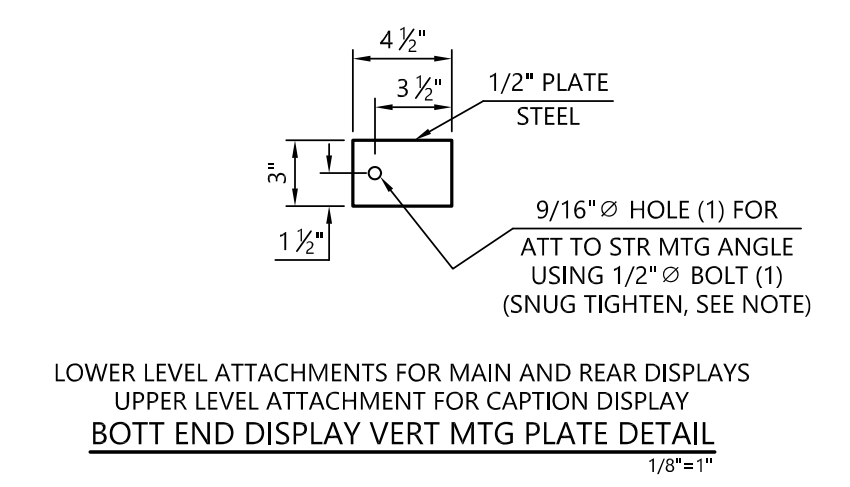
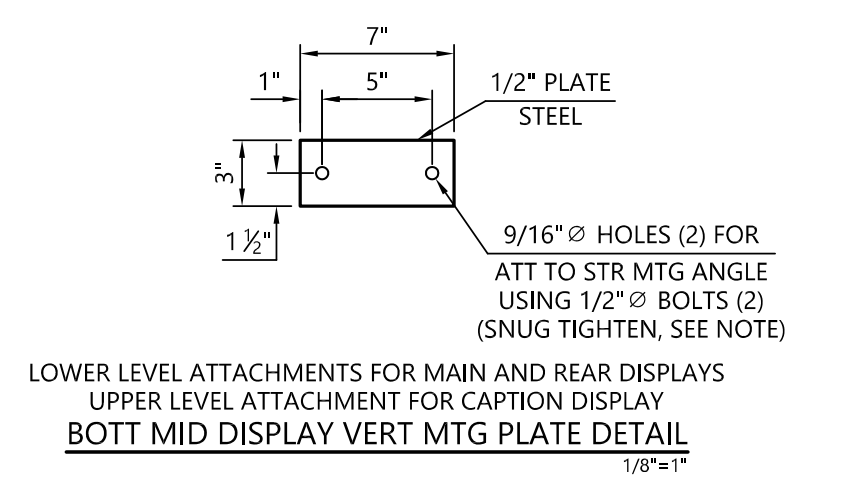
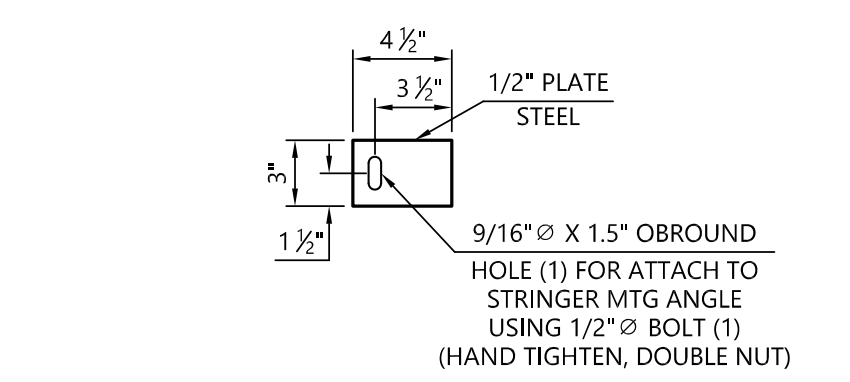
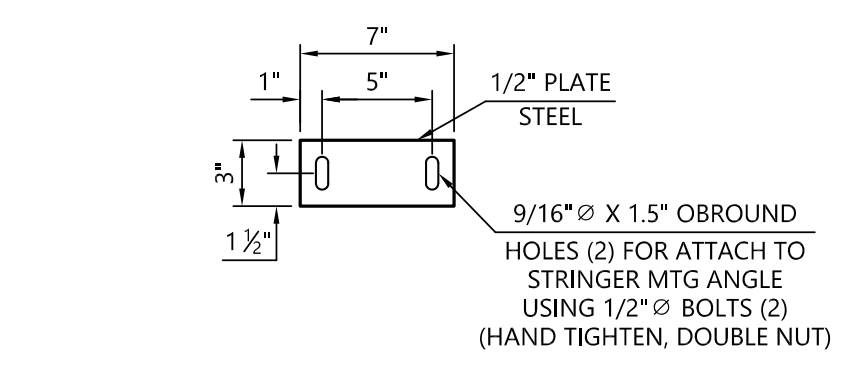
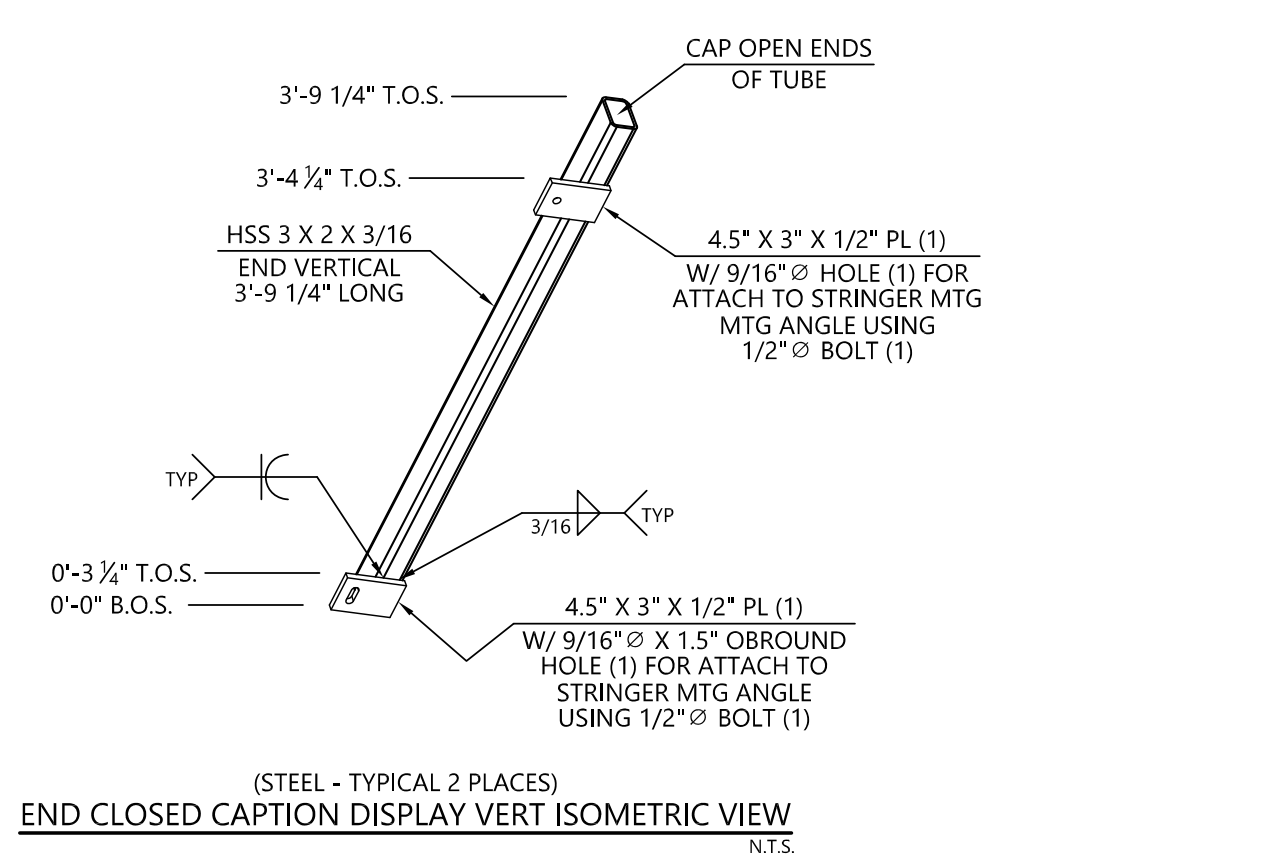
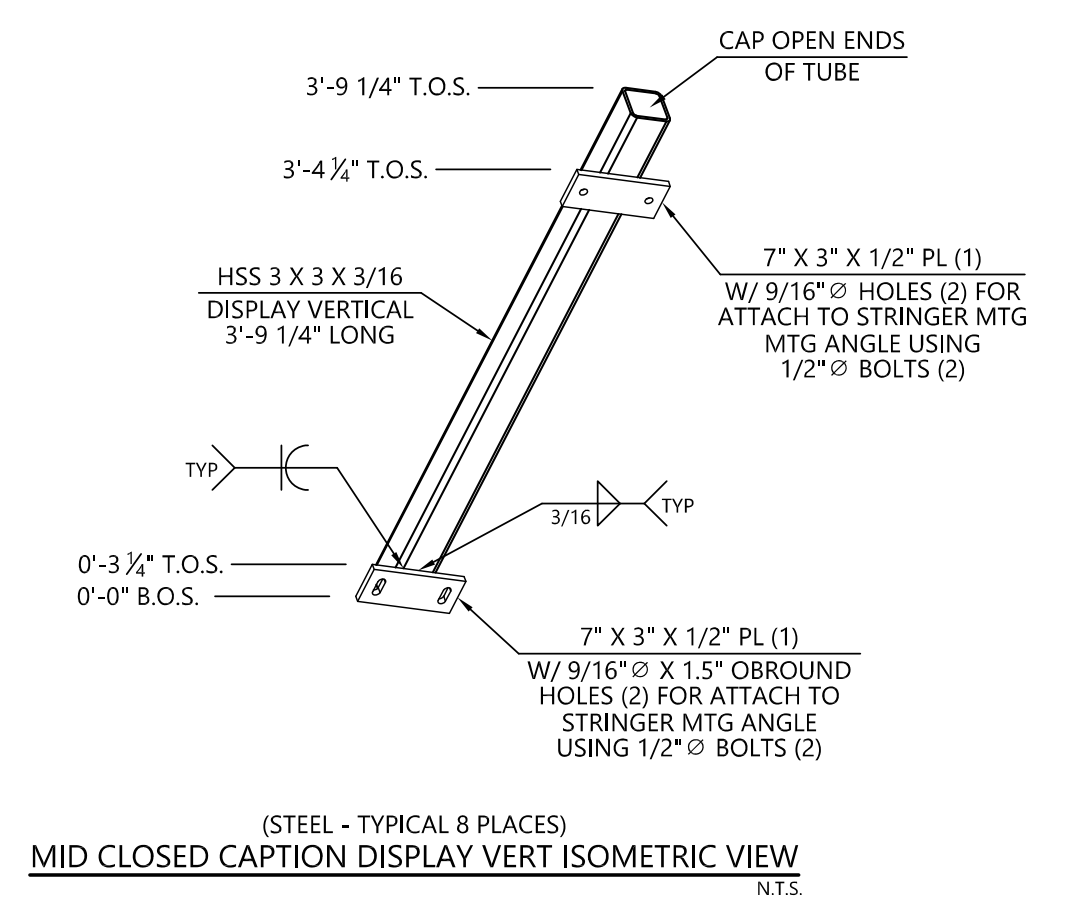
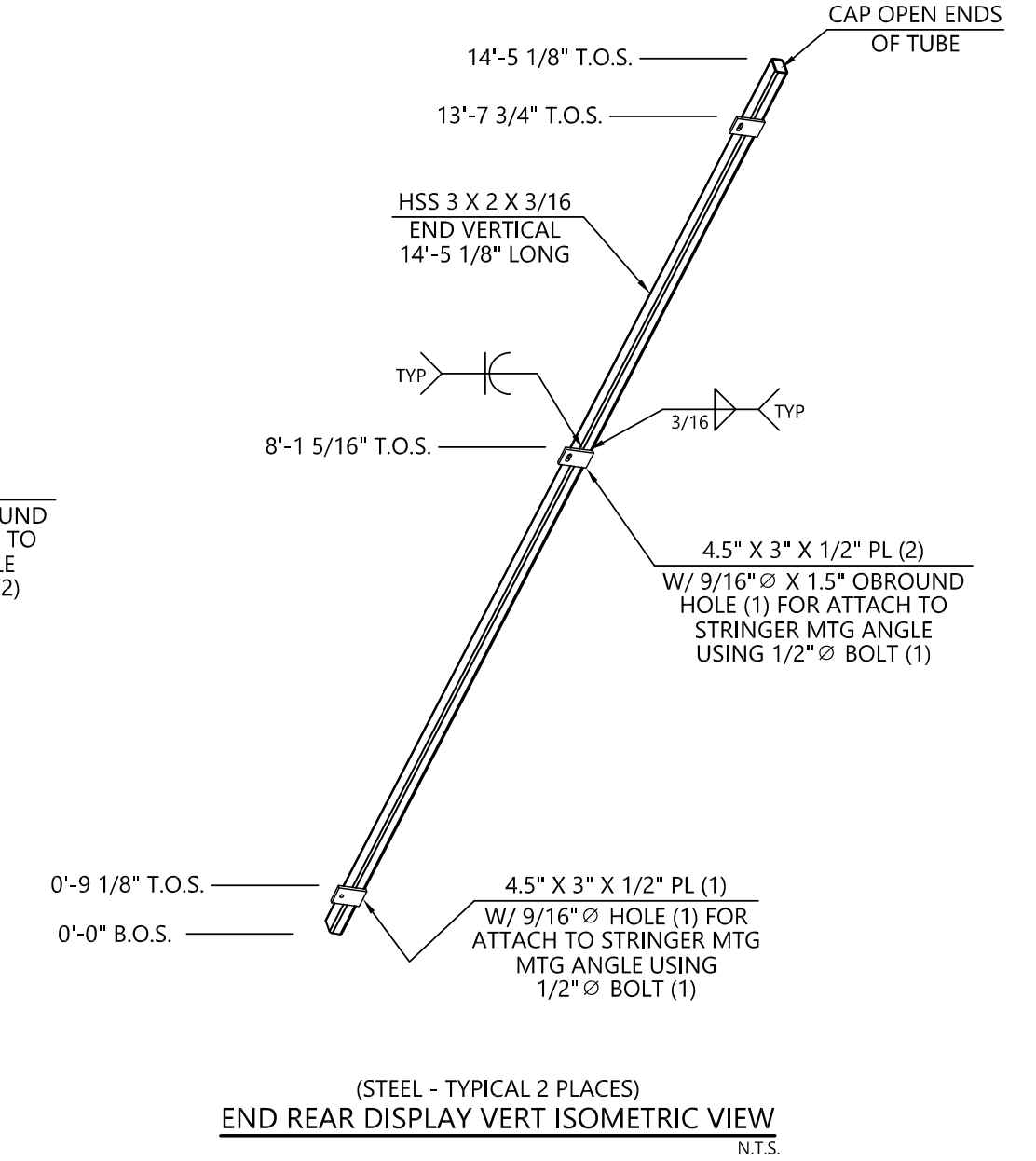
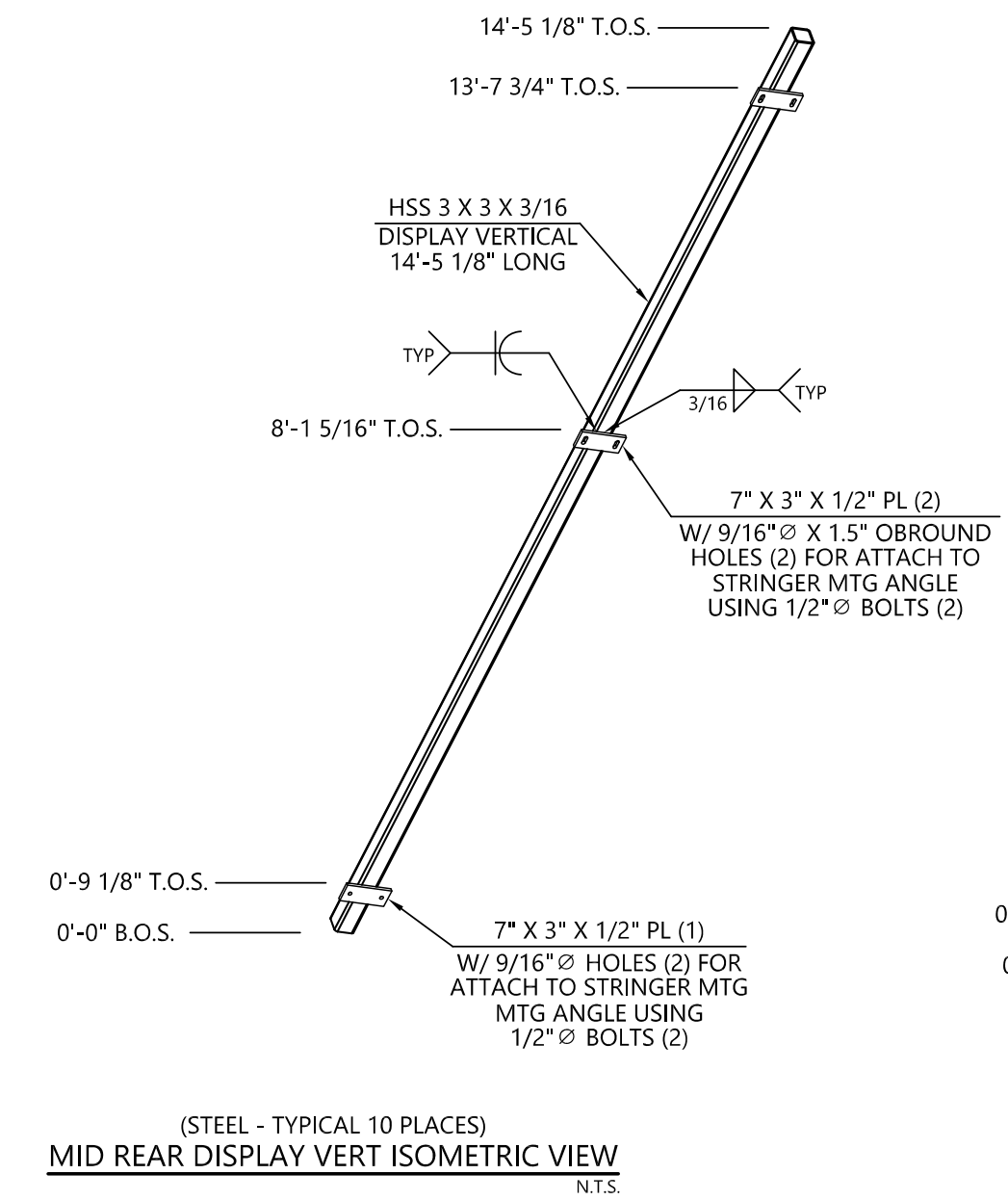
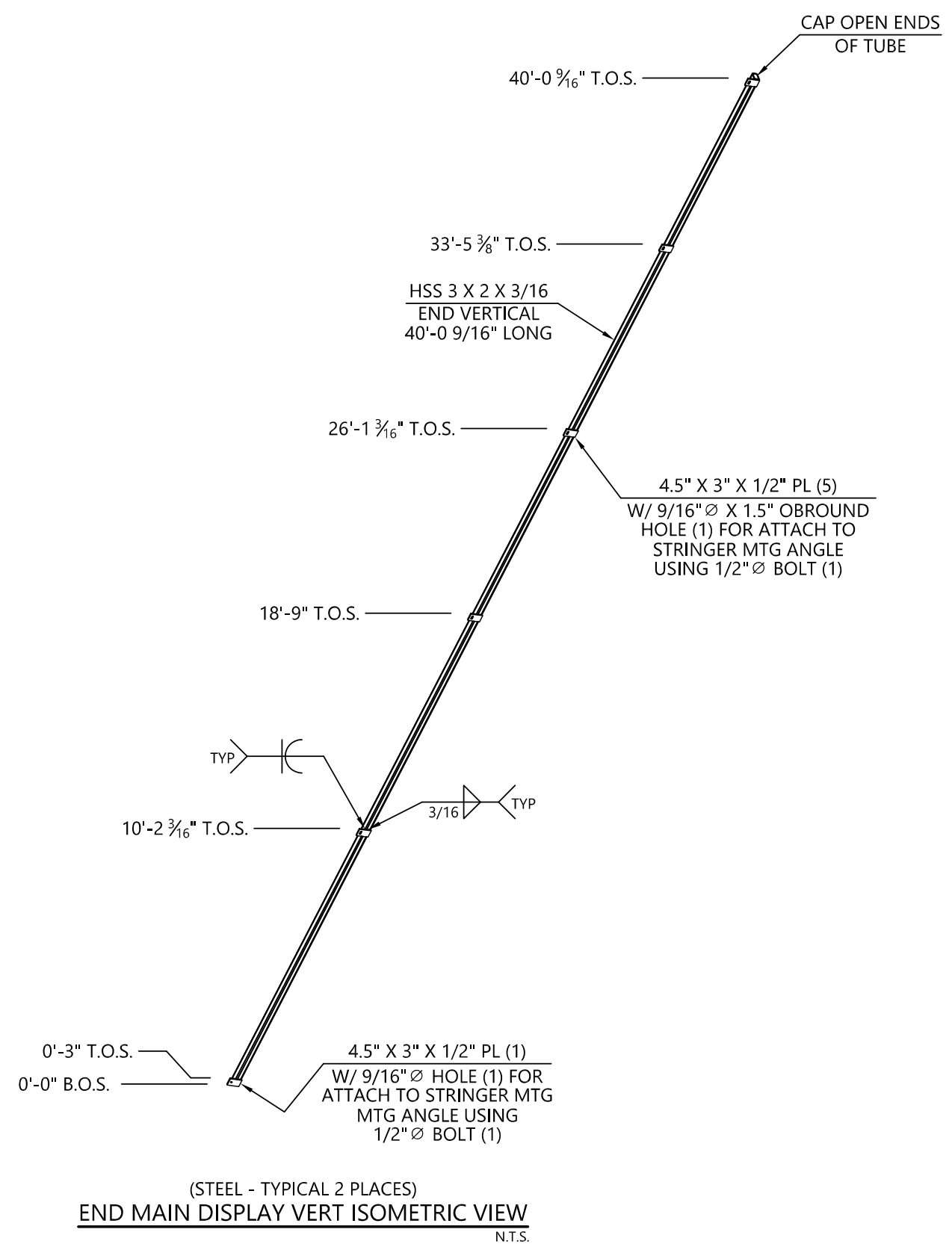
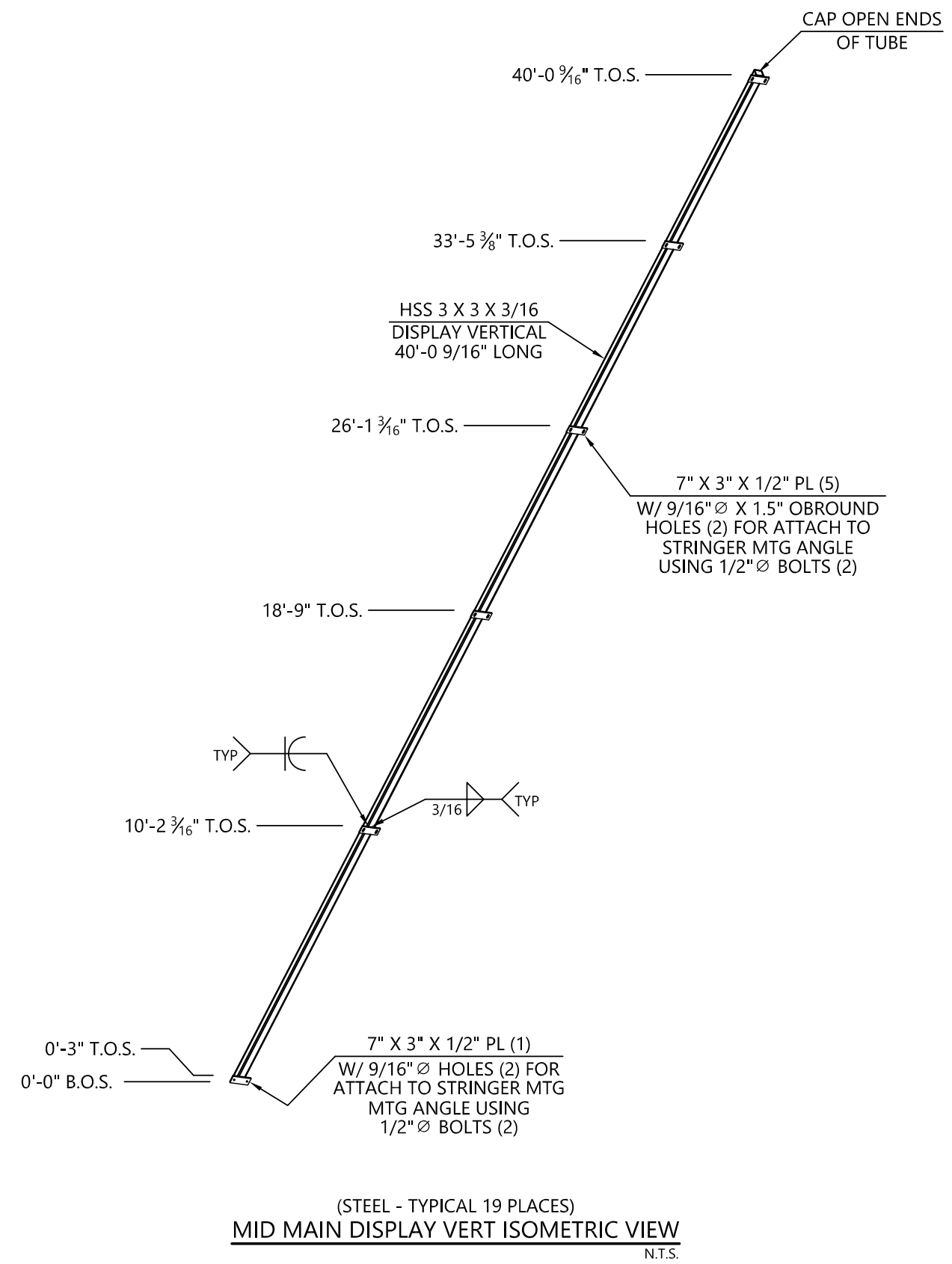
NEW END FRAME ELEVATION VIEW
 3/16"=1'-0"



NEW END FRAME END VIEW
 3/16"=1'-0"

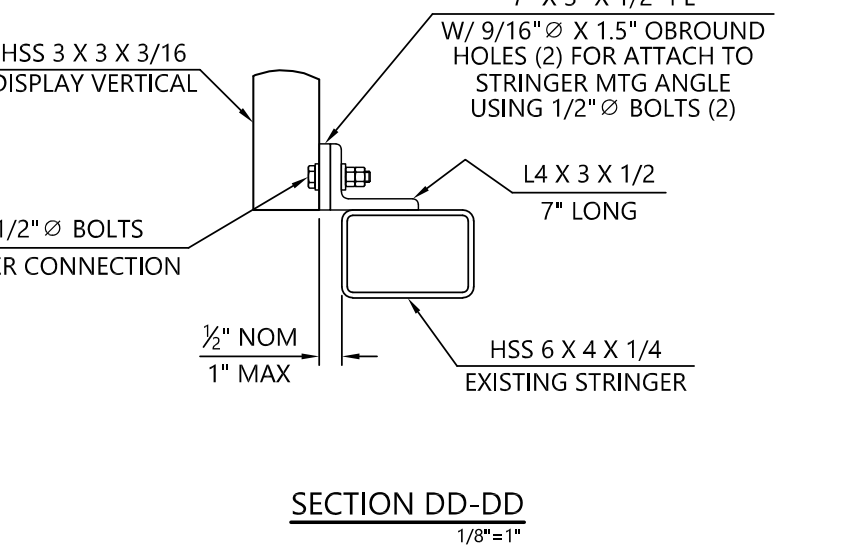
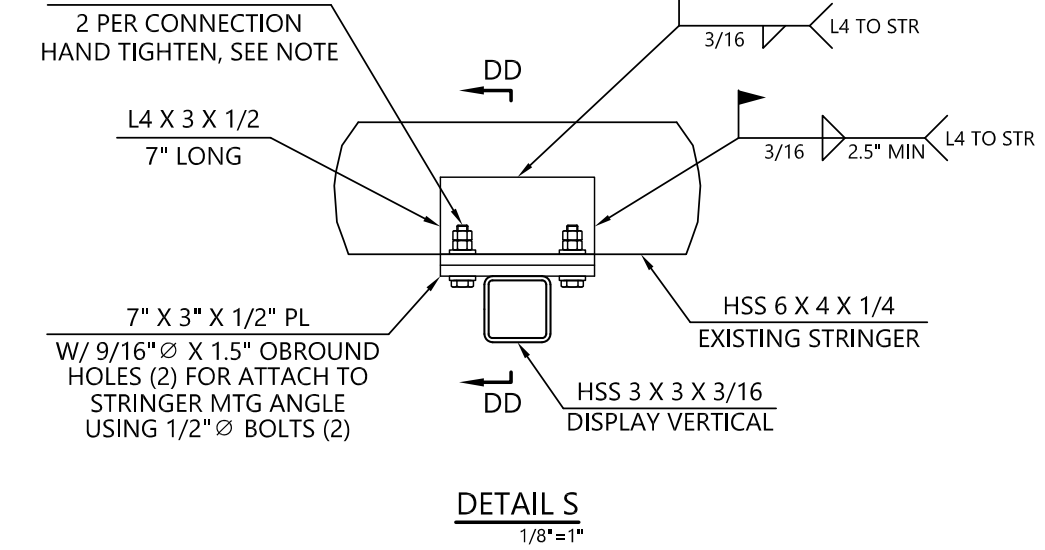
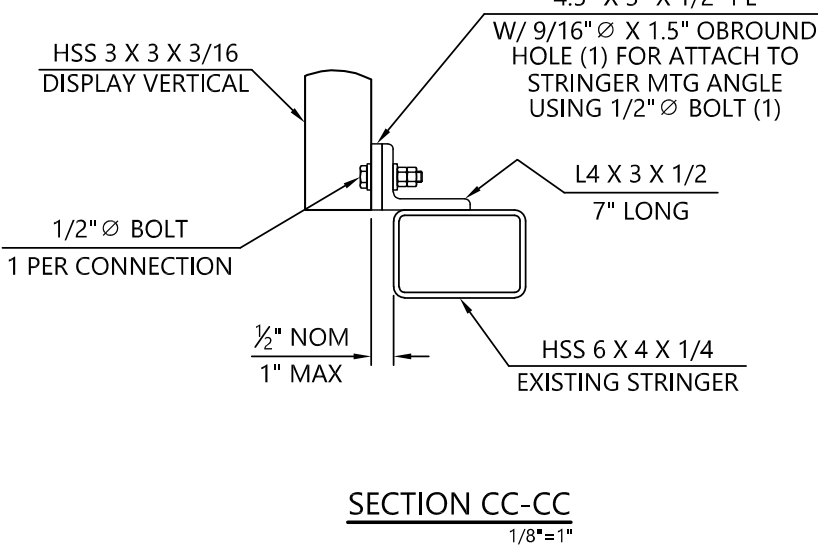
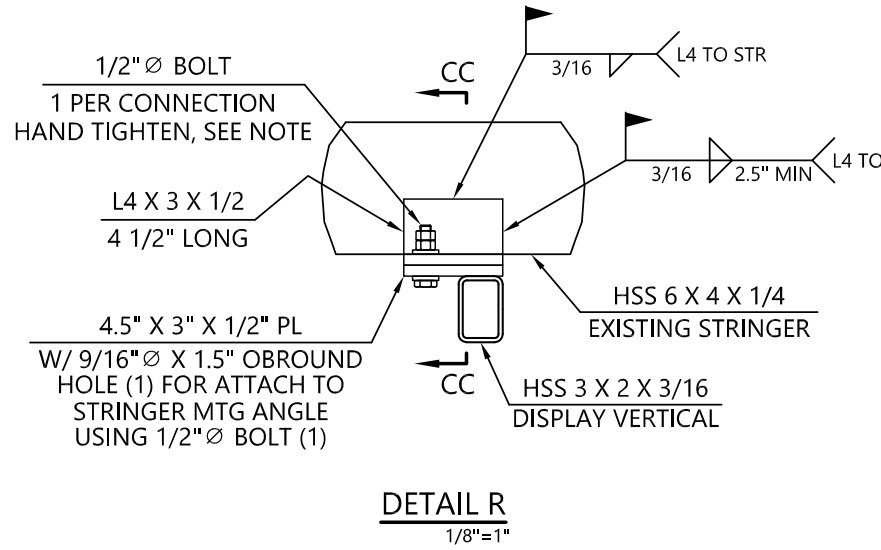
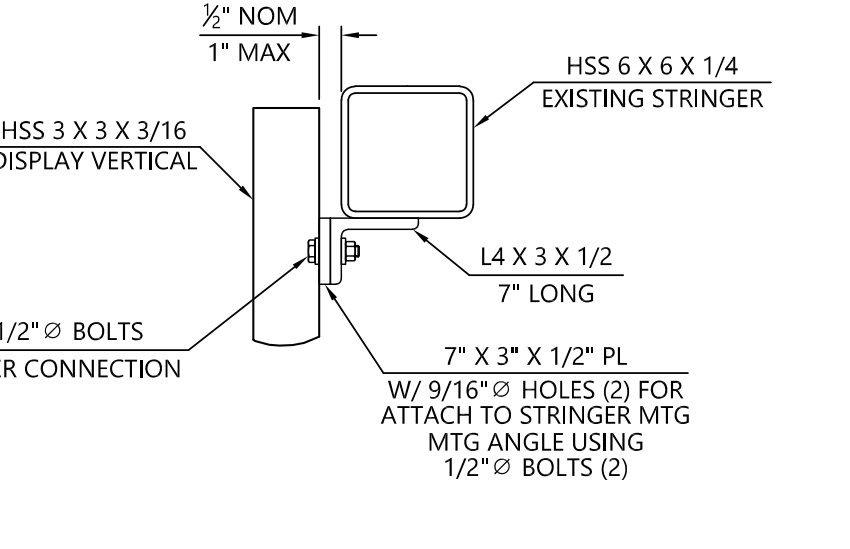
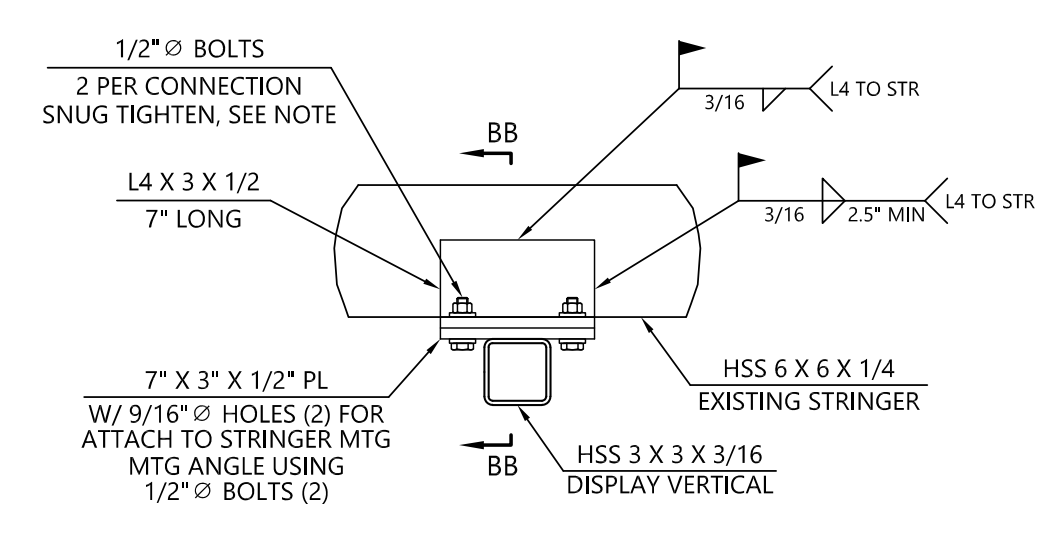
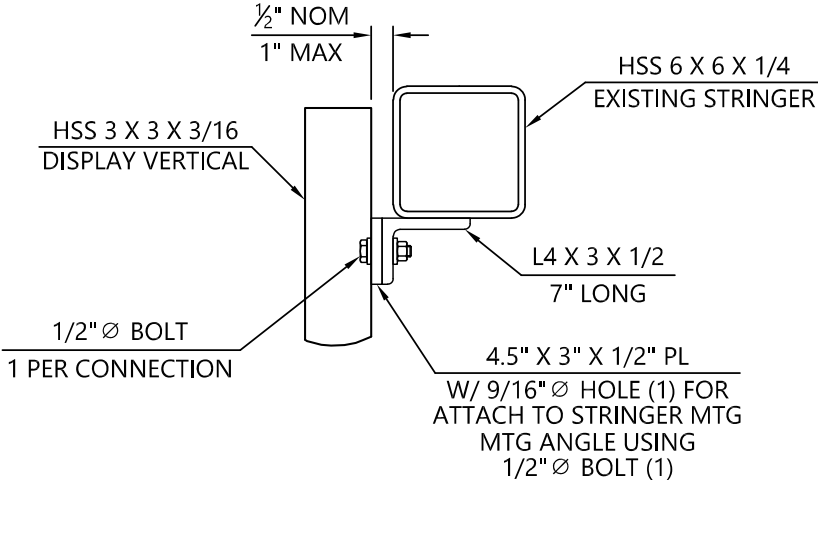
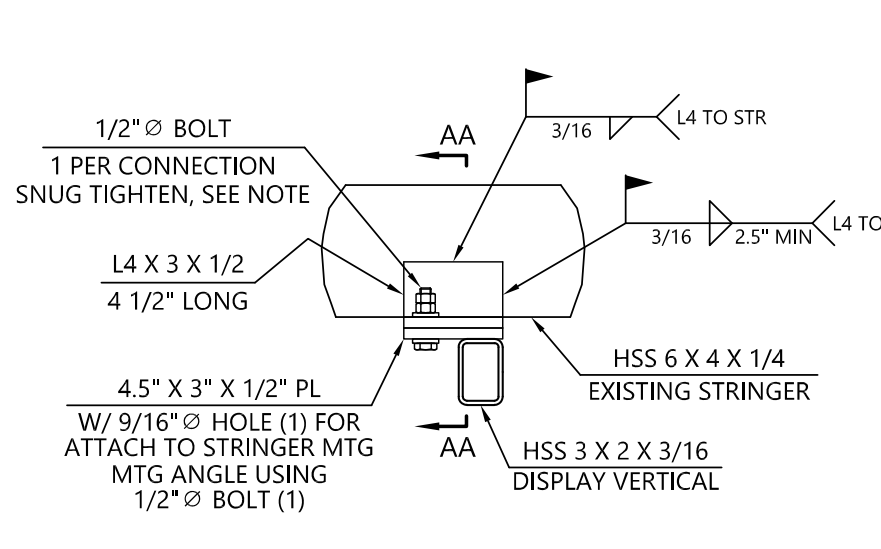
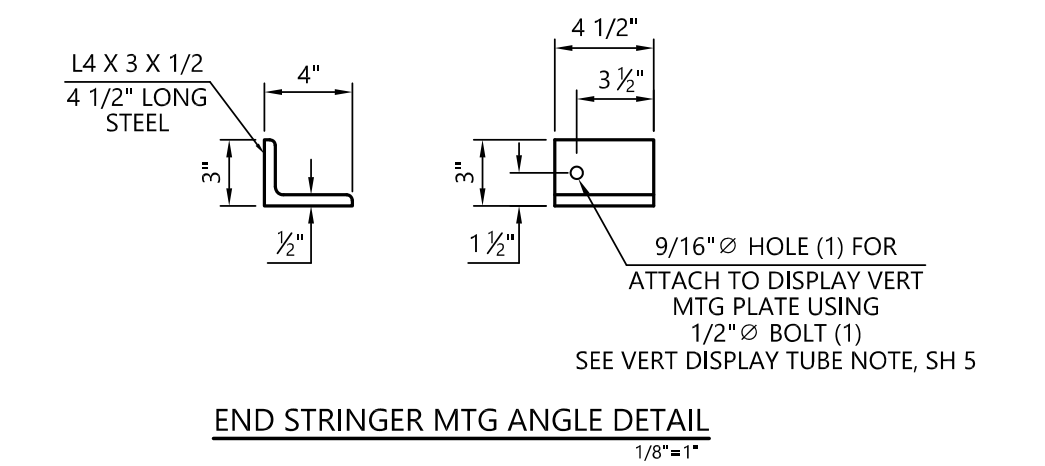
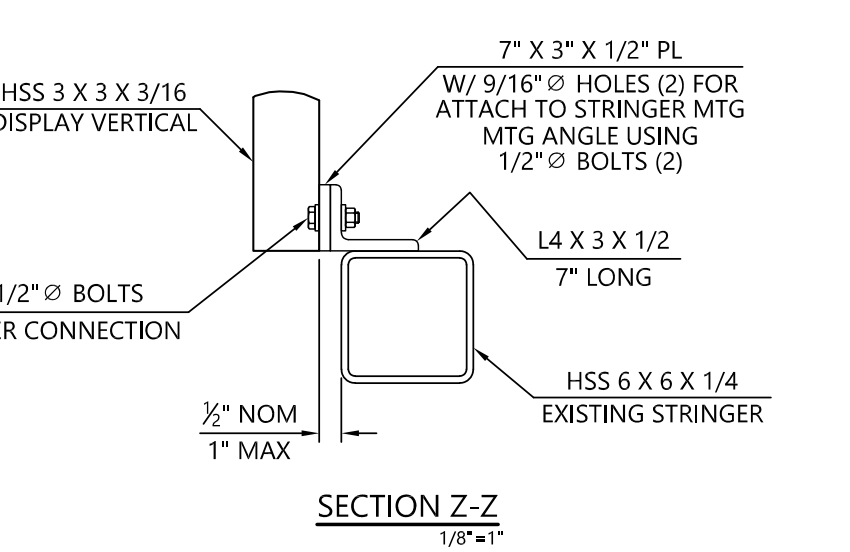
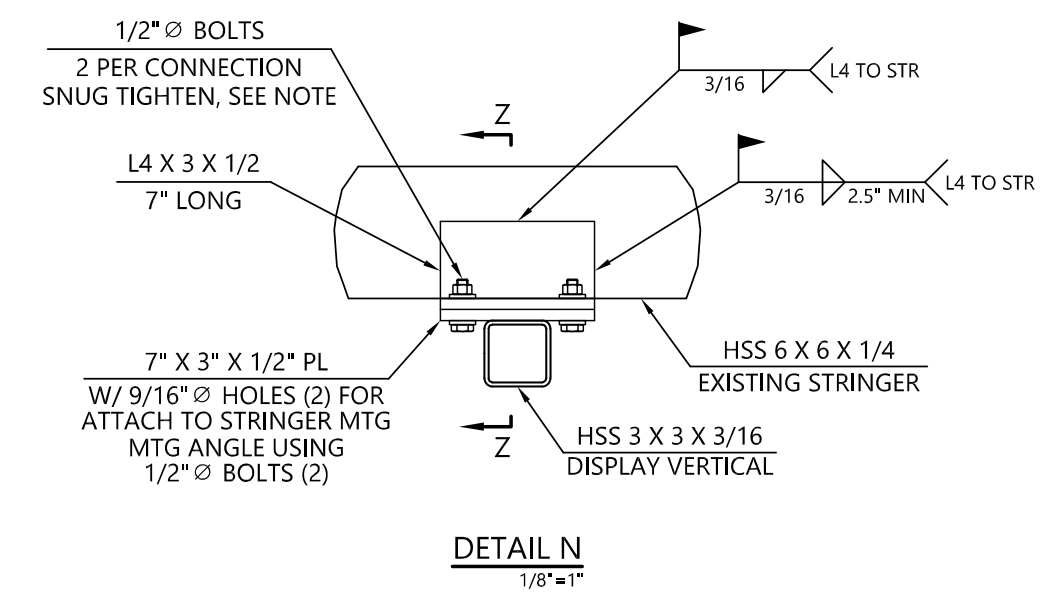
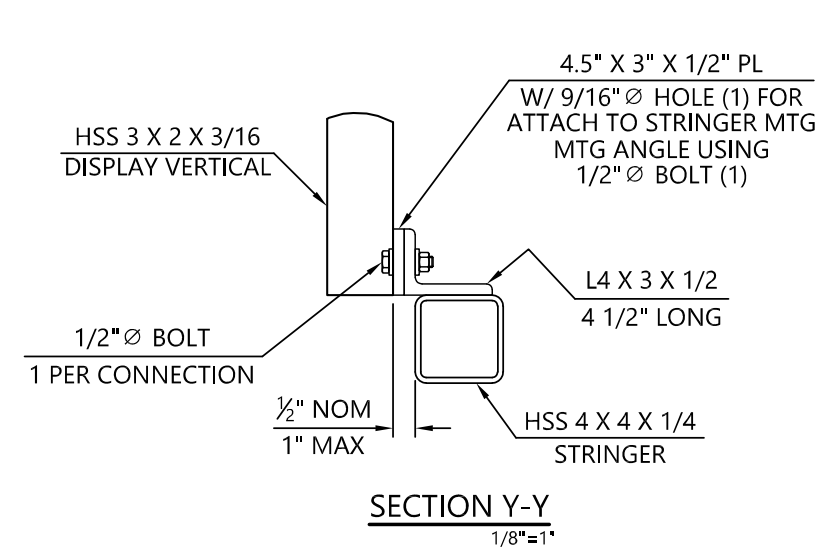
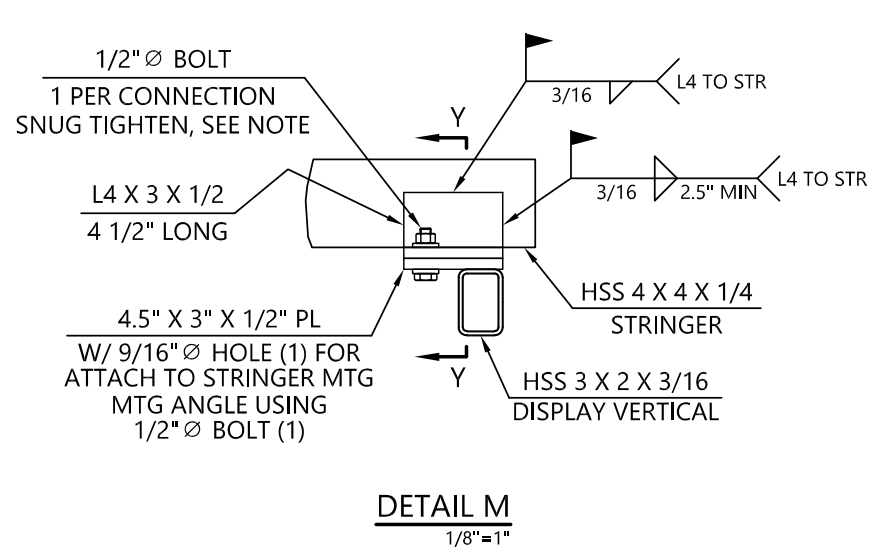
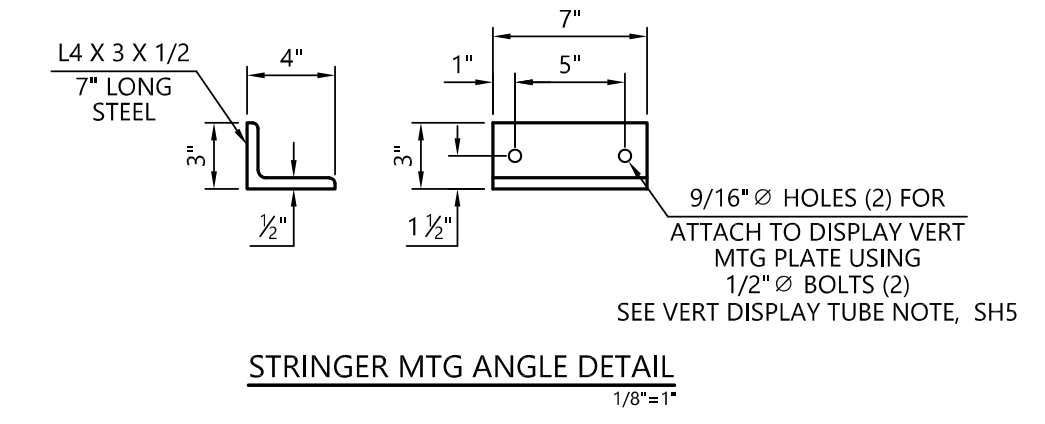
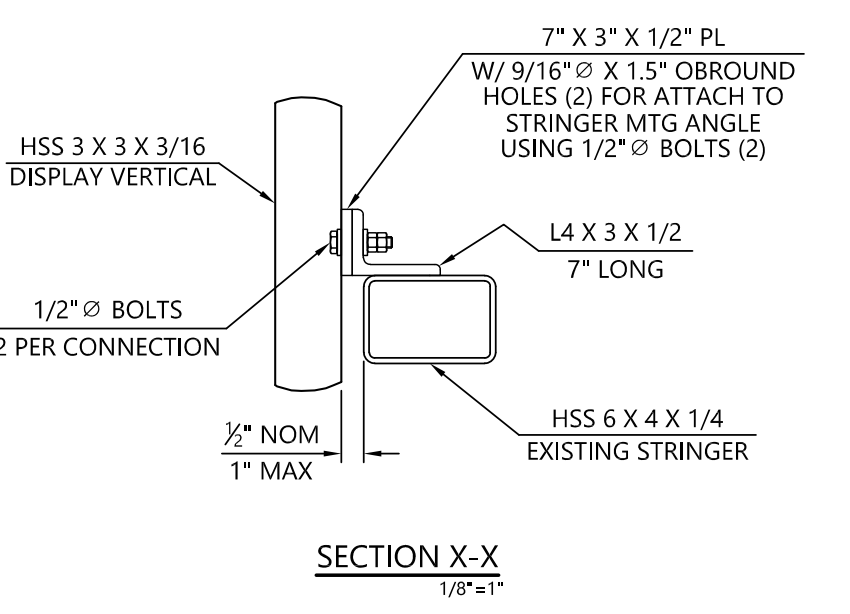
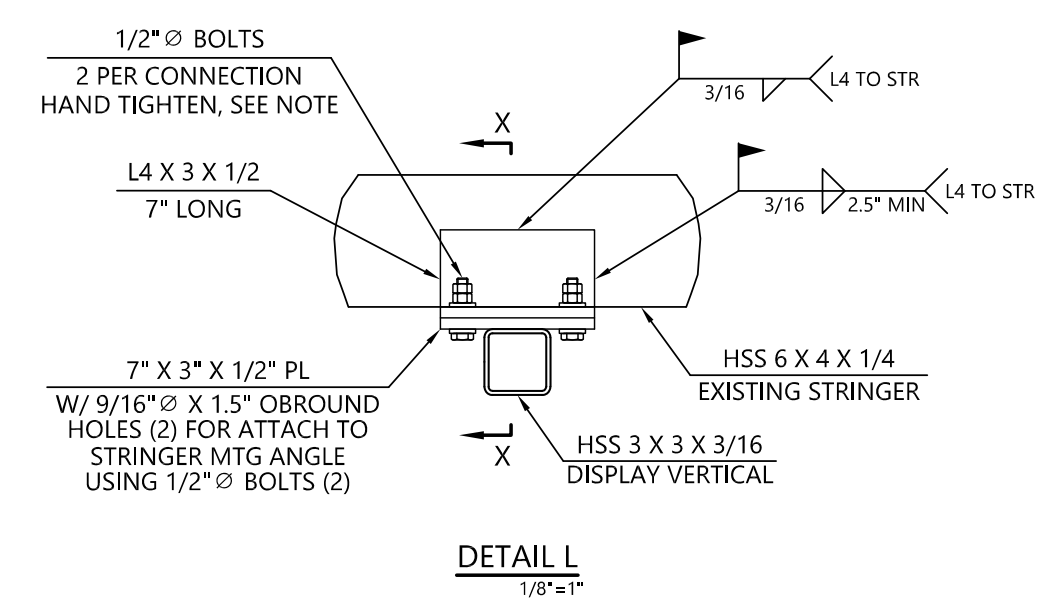
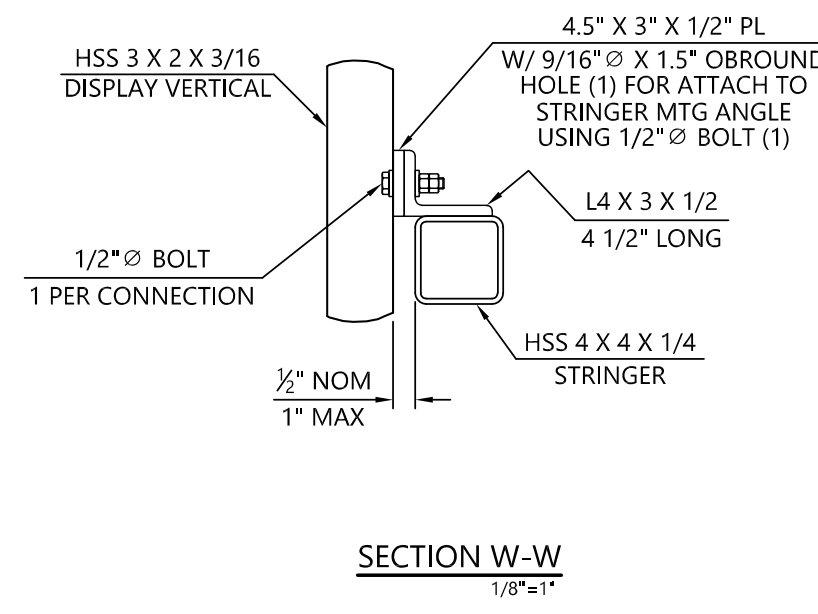
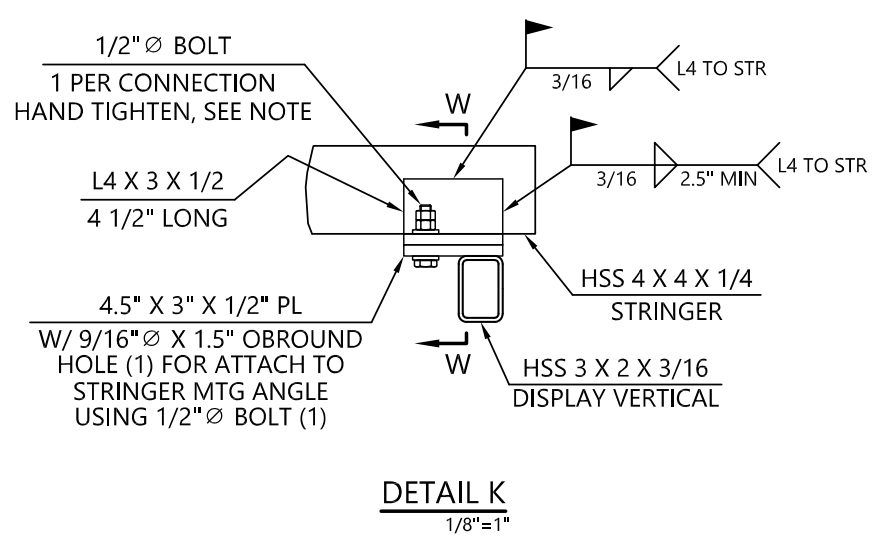
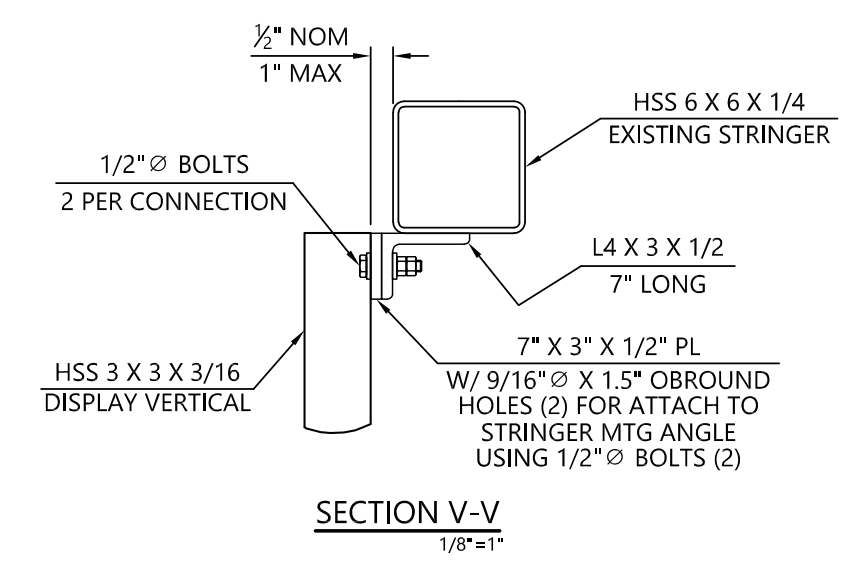
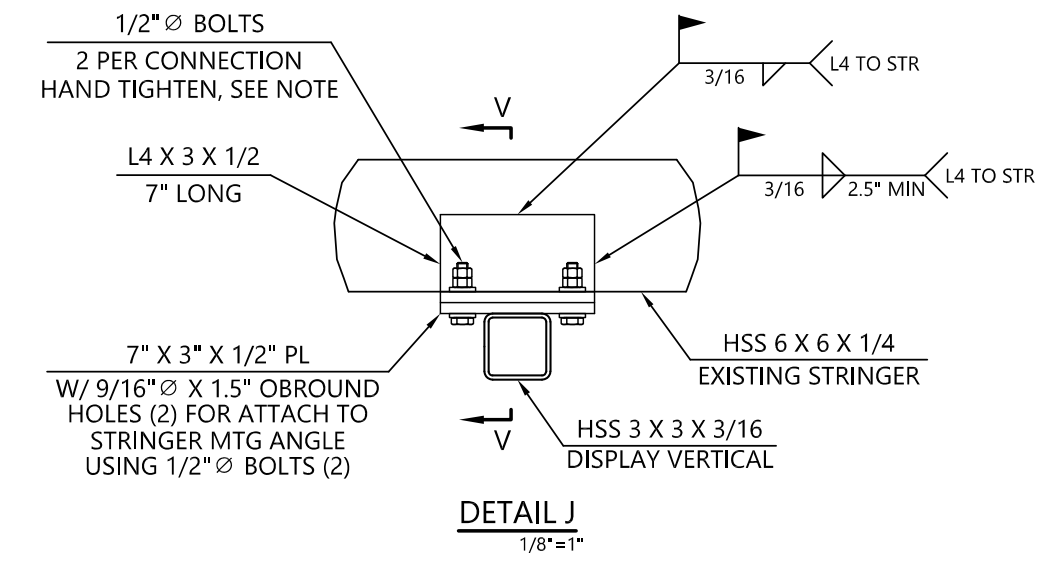
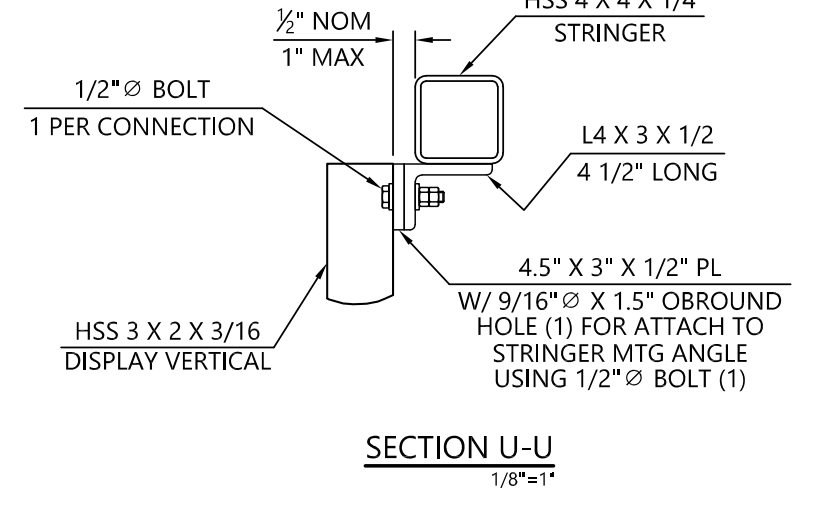
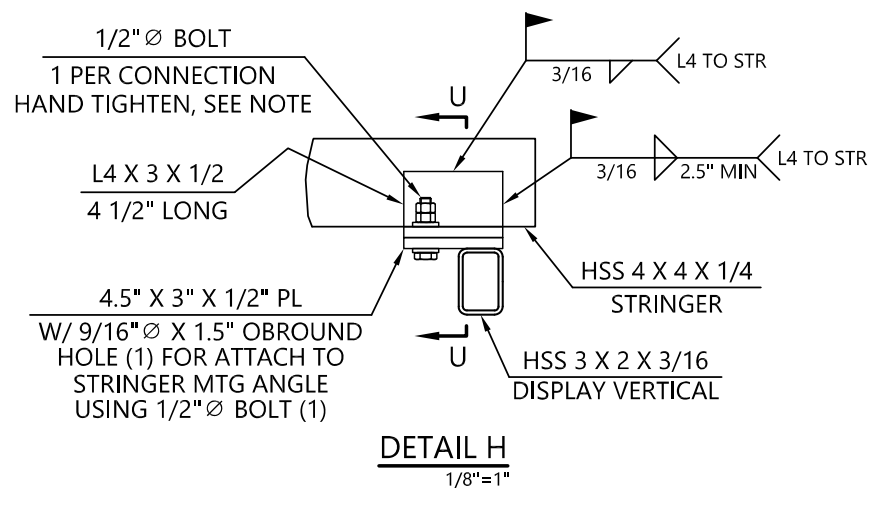
JAMES E. WRIGHT, JR. Digitally signed by James Wright Date: 2024.03.27 13:38:05 -0400 	DAKTRONICS, INC. 201 Daktronics Dr - Brookings, SD 57006 Memorial Stadium North Concourse Video Board Replacement 600 E Stadium Blvd. - Columbia, Missouri	
	 CORNERSTONE ENGINEERING, INC. 1020 William Blount Drive - Maryville, TN 37801 (865) 273-2688 - www.cornerstone1n.com	
Project #: 240068 Drawn By: RF	Dwg #: D7570R Scale: 1/8"=1'-0"	Date: 03/27/2024 Sheet: 4 of 6

MO P.E. # E-29952



VERT DISPLAY TUBE ATTACHMENT NOTE:
EACH OF THE VERTICAL DISPLAY TUBES SHALL BE ATTACHED TO THE NEW MOUNTING ANGLES ON EACH EXISTING STRINGER CROSSED AS SHOWN. THE FULL WEIGHT OF THE TUBES SHALL BE SUPPORTED BY THE ATTACHMENT TO THE STRINGER THAT HAVE MOUNTING ANGLES ROUND HOLES (BOTT FOR MAIN AND REAR DISPLAY AND UPPER FOR CAPTION DISPLAY). THE ATTACHMENT TO THE STRINGERS AT THE OTHER LEVELS WILL BE WITH SLOTTED HOLES IN THE MTG PLATE. THE BOLTS IN THE SLOTTED HOLES SHALL BE HAND TIGHTENED AND DOUBLE NUTTED SO AS TO RESIST LATERAL MOVEMENT BUT ALLOW VERTICAL MOVEMENT.

JAMES E. WRIGHT, JR. Digitally signed by James E. Wright Date: 2024.03.27 13:59:04-0500 	DAKTRONICS, INC. 201 Daktronics Dr - Brookings, SD 57006	
	Memorial Stadium North Concourse Video Board Replacement 600 E Stadium Blvd. - Columbia, Missouri	
MO P.E. # E-29952	CORNERSTONE ENGINEERING, INC. 1020 William Blount Drive - Maryville, TN 37801 (865) 273-2688 - www.CornerstoneTN.com	
	Project #: 240068 Drawn By: RF	Dwg #: D7570R Scale: 1/8"=1'-0"



JAMES E. WRIGHT, JR.
 Digitally signed by James Wright
 Date: 2024.03.27 13:35:00 -0400
 JAMES E. WRIGHT, JR.
 NUMBER E-29952
 REGISTERED PROFESSIONAL ENGINEER

DAKTRONICS, INC. 201 Daktronics Dr - Brookings, SD 57006	
Memorial Stadium North Concourse Video Board Replacement 600 E Stadium Blvd. - Columbia, Missouri	
1020 William Blount Drive - Maryville, TN 37801 (865) 273-2688 - www.CornerstoneTN.com	
Project #: 240068 Drawn By: RF	Dwg #: D7570R Scale: 1/8"=1'-0" Date: 03/27/2024 Sheet: 6 of 6

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

STANDARD MOUNTING HEIGHTS	
AUDIBLE APPLIANCE (CENTERLINE)	84"
ALARM (TOP OF DEVICE)	48"
ANNUNCIATOR PANEL (TOP OF DISPLAY)	60"
CONTROLS (TOP OF DEVICE)	48"
DATA WALL OUTLET	SAME AS ADJACENT DEVICE, UNO
EXIT SIGN (WALL MOUNTED)	92"
FIRE ALARM ANNUNCIATOR PANEL (TOP OF DISPLAY)	60"
FIRE ALARM BELL (EXTERIOR) (CENTERLINE)	120"
FIRE ALARM CONTROL PANEL/UNIT (TOP OF DISPLAY)	60"
INTERCOM (TOP OF DEVICE)	48"
PULL STATION (TOP OF DEVICE)	48"
RECEPTACLE	48"
RECEPTACLE (ABOVE COUNTER)	48" ABOVE BACKSPASH/COUNTER, 40" MAX
RECEPTACLE (CLOCK) (CENTERLINE)	84"
RECEPTACLE (EQUIPMENT ROOMS) (TOP OF DEVICE)	48"
RECEPTACLE (EXTERIOR)	24"
RECEPTACLE (GARAGES)	24"
REMOTE INDICATING LIGHT (EQUIPMENT ROOMS) (TOP OF DEVICE)	CEILING
REMOTE INDICATING LIGHT (FINISHED AREAS)	48"
SAFETY SWITCH (TOP OF DEVICE)	48"
STARTER (TOP OF DEVICE)	48"
SWITCH (TOP OF DEVICE)	48"
TELEPHONE WALL OUTLET (TOP OF DEVICE)	48"
TELECOMMUNICATIONS BACKBOARD	8"
TELEVISION OUTLET	REFER TO DRAWINGS
VISIBLE APPLIANCE (CENTERLINE)	84"

INSTALL DEVICES/OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO BOTTOM, UNO, ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

AF	MFR	MANUFACTURER
AMPERE FUSE SIZE	MIN	MINIMUM
ABOVE FINISHED CEILING	MLO	MAIN LINES ONLY
ABOVE FINISHED FLOOR	MLV	MAGNETIC LOW-VOLTAGE
ABOVE FINISHED GRADE	MLC	MAXIMUM OCCURRENCE
AHJ	MOCP	MAXIMUM OCCURRENCE
AIR HANDLING UNIT	MTD	MOUNTED
AMPERE INTERRUPTING CAPACITY	N/A	NOT APPLICABLE
AMPERE SWITCH SIZE	NL	NIGHT LIGHT (24HR ON)
AMPERE TRIP SETTING	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
AUTOMATIC TRANSFER SWITCH	NTS	NOT TO SCALE
AUDIO VISUAL	OS	OCCUPANCY SENSOR
BAS	P	POLE
BUILDING AUTOMATION SYSTEM	OS	OCCUPANCY SENSOR
BREAKER	P	POLE
CONDUIT	PART	PARTIAL CIRCUIT
CATEGORY	PH#	PHASE
CABLE TELEVISION SYSTEM	PNL	PANEL
CCTV	PNLD	PANELBOARD
CANDELA	PROVIDE	FURNISH AND INSTALL
CIRCUIT	PT	POTENTIAL TRANSFORMER
APPLICABLE CODE ADOPTED BY JURISDICTION	QTY	QUANTITY
CURRENT TRANSFORMER	RREL	RELOCATE
CENTER	RCP	RECEPTACLE
CONTROL/CONTROLLED	RLA	RUNNING LOAD AMPS
CUMULATIVE VOLTAGE DROP	RTU	ROOFTOP UNIT
DOUBLE-THROW	SCCR	SHORT-CIRCUIT CURRENT RATING
DOUBLE-THROW	SD	SMOKE DETECTOR
DOUBLE-THROW	SF	SQUARE FEET
DOUBLE-THROW	SPD	SURGE PROTECTIVE DEVICE
EXISTING TO REMAIN	SPDT	SINGLE-POLE, DOUBLE-THROW
ELECTRICAL CONTRACTOR	SPST	SINGLE-POLE, SINGLE-THROW
EXHAUST FAN	SSBJ	SUPPLY-SIDE BONDING JUMPER
EMERGENCY	SWBD	SWITCHBOARD
ENERGY MANAGEMENT SYSTEM	SWGR	SWITCHGEAR
ELECTRONIC LOW-VOLTAGE	TBB	TELECOMMUNICATIONS BONDING BACKBONE
ELECTRIC WATER COOLER	TBD	TO BE DETERMINED
FIRE ALARM ANNUNCIATOR	TGB	TELECOMMUNICATIONS GROUND BUS BAR
FIRE ALARM CONTROL PANEL	TL	TWISTLOCK
FAULT CURRENT AMPS AVAILABLE	TMBG	TELECOMMUNICATIONS MAIN GROUND BUS BAR
FAN COIL UNIT	TXFMR	TRANSFORMER
FURNISHED FLOOR	TYP	TYPICAL
FULL LOAD AMPS	UF	UNDERFLOOR
FLOOR	UG	UNDERGROUND
GENERAL CONTRACTOR	US	UNDERSLAB
GROUNDING ELECTRODE CONDUCTOR	UH	UNIT HEATER
GROUNDING ELECTRODE SYSTEM	UNO	UNLESS NOTED OTHERWISE
GROUND FAULT RELAY	UPS	UNINTERRUPTIBLE POWER SUPPLY
GROUND	VD	VOLTAGE DROP
ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
SHORT CIRCUIT CURRENT	VS	VACUANCY SENSOR
JUNCTION BOX	W	WIRE
LINEAR FEET	W	WITH
LOCKED ROTOR AMPS	WP	WEATHER PROOF
LIGHTS	WR	WEATHER RESISTANT
MAKE-UP AIR UNIT	WT	WATERTIGHT
MAXIMUM	XP	EXPLOSION-PROOF
MINIMUM CIRCUIT AMPACITY		
MAIN CIRCUIT BREAKER		
MOTOR CONTROL CENTER		

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASING DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAME OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	NEW
SIGNALING BELL	SIGNALING BUZZER
LV TRANSFORMER	

SIGNALING

SIGNALING BELL
SIGNALING BUZZER
LV TRANSFORMER

ANNOTATION	
MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT	
PLUMBING PLAN NOTE CALLOUT	
ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT	
TECHNOLOGY PLAN CALLOUT	
PLUMBING EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED); REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES	
EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)	
MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	
CONNECTION POINT OF NEW WORK TO EXISTING	
DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	
SECTION CUT DESIGNATION	
DEDICATED EQUIPMENT ACCESS TILE	
ACCESS PANEL	

CIRCUITING & WIRING

HOMERUN TO PANELBOARD, INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION, REFER TO PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES.	
INDICATES RELAY NUMBER	
CIRCUIT CONTINUATION OR PARTIAL CIRCUIT	
CONDUIT CONCEALED	
CONDUIT CONCEALED (EMERGENCY)	
CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION	
EXPOSED CONDUIT	
EXPOSED CONDUIT (EMERGENCY)	
FLEXIBLE CONDUIT	
LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)	
CONDUIT TURNING DOWN	
CONDUIT TURNING UP	
CONNECTION POINT OR EQUIPMENT TERMINATION	
EQUIPMENT TERMINATION	

CONDUCTOR TICK MARK LEGEND

SWITCHED HOT (PHASE) CONDUCTORS (SHOWN TRAILING NEUTRAL)	
NEUTRAL (GROUNDED) CONDUCTOR	
UNSWITCHED HOT (PHASE) CONDUCTORS (SHOWN LEADING NEUTRAL)	
NOTE: HASH MARKS INDICATE QUANTITY OF CONDUCTORS	
EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)	
ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)	

BRANCH CIRCUIT CONDUCTOR TABLE

# OF POLES	HOT (PHASE)**	NEUTRAL (GROUNDED)**	GROUNDING***
1P	(1)	(1) UNO	(1)
2P	(2)	(1) UNO	(1)
3P	(3)	(1) UNO	(1)

* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/EM, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO.
*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.
REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

LIGHTING	
LIGHT FIXTURE	
a = LOWER CASE LETTER IS SWITCH IDENTIFIER	
A = UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE	
W = WALL MOUNT	
> = ARROW INDICATES AIMING DIRECTION	
LIGHT FIXTURE CIRCUITED AS A NIGHT LIGHT (NL)	
EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE	
NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE	
LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)	
LIGHTING TRACK (# INDICATES RELAY NUMBER)	
MIRROR LIGHTS	
EXTERIOR PARKING LOT LIGHT FIXTURE	
EXTERIOR PEDESTRIAN POST TOP LIGHT FIXTURE	
EXTERIOR LIT BOLLARD LIGHT FIXTURE	
EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED	
EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED	
APEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED	

POWER EQUIPMENT

ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)	
ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED	
PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO, SIZE AS NOTED	
SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD	
ELECTRICAL DISTRIBUTION PANELBOARD	
TRANSFORMER	
DISCONNECT SWITCH - "200/3/150/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF= NON-FUSED, CB= CIRCUIT BREAKER (200/3/CB), NO VALUE (200/3/150) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING	
COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "30/3/15/13R" DENOTES AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCLOSURE RATING, NF= NON-FUSED, CB= CIRCUIT BREAKER (30/3/CB/1), NO VALUE (30/3/15/13R) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 ENCLOSURE RATING	
MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED, 3-POLE, UNO	
VARIABLE FREQUENCY DRIVE	
INDICATING LIGHT	
EMERGENCY POWER OFF BUTTON	
STOP-START PUSH BUTTON CONTROL STATION	
HAND-OFF-AUTO PUSH BUTTON CONTROL STATION	
MUSHROOM-TYPE PUSH BUTTON	
OVERHEAD PADDLE FAN	

REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.

BOXES, LIGHTING CONTROL & WIRING DEVICES	
SWITCH LETTER DESIGNATIONS AS FOLLOWS: BLANK = SINGLE POLE 2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER F = FAN SPEED CONTROL FH = FRACTIONAL HORSEPOWER MANUAL CONTROLLER IH = INTEGRAL HORSEPOWER MANUAL CONTROLLER K = KEYPAD LVW = LOW VOLTAGE / DIGITAL M = MANUAL MOTOR STARTER DISCONNECT OS# = OCCUPANCY SENSOR P = SPST PILOT LIGHT WP = WEATHER PROOF # = REFER TO LIGHTING CONTROL DEVICE SCHEDULE	
AUTOMATIC LOAD CONTROL RELAY	
BRANCH CIRCUIT TRANSFER SWITCH	
CEILING / WALL MOUNTED OCCUPANCY SENSOR (# INDICATES TYPE PER SCHEDULE)	
CORNER 90 DEGREE SENSING ONE-DIRECTION SENSING, CEILING/WALL MOUNT CEILING MOUNT, TWO-DIRECTION SENSING CEILING MOUNT, FOUR-DIRECTION SENSING	
CONTACTOR (SIZE, COIL VOLTAGE AND NUMBER OF POLES AS INDICATED)	
TRACK-MOUNTED CURRENT LIMITER (# INDICATES AMPERAGE)	
DAYLIGHT SENSOR (# INDICATES TYPE PER SCHEDULE)	
LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT	
POWER PACK (# INDICATES TYPE PER SCHEDULE)	
PHOTOELECTRIC SWITCH	
ROOM CONTROLLER (# INDICATES TYPE PER SCHEDULE)	
TIME SWITCH	
SIMPLEX RECEPTACLE - NEMA 5-20R, UNO	
DUPLEX RECEPTACLE - NEMA 5-20R, UNO	
DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO	
SPECIAL RECEPTACLE - NEMA TYPE AS NOTED	
TWIST-LOCK TYPE RECEPTACLE	
BLANK FACE GFCI FEED THROUGH DEVICE	
GFCI TYPE RECEPTACLE*	
ISOLATED GROUND TYPE RECEPTACLE*	
EMERGENCY RECEPTACLE*	
RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPASH*	
RECEPTACLE INSTALLED IN CEILING*	
RECEPTACLE INSTALLED IN FLOOR*	
RECEPTACLE INSTALLED VIA DROP CORD*	
ADDITIONAL RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS: C = AUTOMATICALLY CONTROLLED CH = CLOCK HANGER TYPE G = RCPT PROTECTED BY GFCI CIRCUIT BREAKER OR UPSTREAM GFCI DEVICE H = HORIZONTALLY MOUNTED S = MANUALLY SWITCHED SP / YSS = SURGE PROTECTION TR = TAMPER RESISTANT TV = TELEVISION USB = USB/DUPLEX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT	
MULTI-OUTLET ASSEMBLY	
TELEPHONE OUTLET	
DATA OUTLET	
MULTI-SERVICE OUTLET, TELEPHONE AND DATA	
ABOVE COUNTER, TYP WALL, TYP FLOOR, TYP	
MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS	
MULTI-SERVICE FLOOR BOX WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS	
POKE THROUGH, A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS	
THERMOSTAT	
CEILING/FLOOR MOUNT JUNCTION/OUTLET BOX	
WALL MOUNT JUNCTION/OUTLET BOX	

REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION.

SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANS IT IS SIMILAR FOR THOSE DEVICE TYPES.	
REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION.	

ELECTRICAL ONE-LINE & RISER DIAGRAM	
SWITCH (RATING AS INDICATED)	
DRAWOUT CIRCUIT BREAKER (RATINGS AS INDICATED)	
FUSED SWITCH (RATING, POLES AND FUSE TYPE AS INDICATED)	
COMBINATION FUSED SWITCH/STARTER AND STARTER SIZE	
CIRCUIT BREAKER (RATINGS AS INDICATED)	
COMBINATION CIRCUIT BREAKER/STARTER AND STARTER SIZE	
PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES)	
ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER (REFER TO SCHEDULES)	
TRANSFORMER (TYPE AND RATINGS AS INDICATED)	
SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)	
AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)	
AUTOMATIC TRANSFER SWITCH WITH BYPASS (RATINGS AS INDICATED)	
GENERATOR (RATINGS AS INDICATED)	
INDICATES CONNECTION TO GROUNDING ELECTRODE SYSTEM IF GENERATOR IS CONNECTED AS A SEPARATELY DERIVED SOURCE	
SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD (TYPE, RATING, DEVICES AND ACCESSORIES AS INDICATED)	
COMBINATION DIGITAL VOLT METER/AMMETER	
CIRCUIT IDENTIFICATION (REFER TO CIRCUIT SCHEDULE)	
GROUND FAULT RELAY	
PHASE FAILURE RELAY	
KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)	
SHUNT TRIP	
AMMETER (RANGE AS SPECIFIED OR REQUIRED)	
VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)	
UTILITY METER (AS REQUIRED BY UTILITY)	
AMMETER SWITCH	
VOLTMETER SWITCH	
WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15" DENOTES MINUTES OF DEMAND INTERVAL	
CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED	
POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED	
SURGE-PROTECTIVE DEVICE	
GROUND CONNECTION	
GROUND CONNECTION WITH TEST WELL	
GROUND ROD	
LIGHTNING ARRESTER	
CAPACITOR	
CONTACT (OPEN OR CLOSED)	
HEATER	
MOTOR	
BLOCK LOAD KW OR KVA	
FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET	

CALL OUTS

ENLARGED PLAN CALLOUT	
NOT IN SCOPE	

APPLICABLE ELECTRICAL CODES:
NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE, (NFPA 70)
BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE
ENERGY CODE: 2019 ASHRAE 90.1, WITH LOCAL AMENDMENTS

HENDERSON ENGINEERS
1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
TEL 816.861.8700 FAX 816.861.8701
WWW.HENDERSONENGINEERS.COM
236004854
MO. CORPORATE NUMBER: E-5560
103124

STATE OF MISSOURI
ANDREA C. MULVANY
PROFESSIONAL ENGINEER
PE-2013039892
03/27/2022

ANDREA C. MULVANY
LICENSE # PE-2013039892

CHECKED BY:
DRAWN BY:

MEMORIAL STADIUM
COLUMBIA, BOONE COUNTY, MISSOURI 65211
NORTH CONCOURSE VIDEO BOARD REPLACEMENT
ELECTRICAL LEGEND AND NOTES

MAIN VIDEO
DVX-2102-13HD-7500-C-924X2128-230BR-LT-MR

CAPTIONING
DVX-2102-13HD-7500-C-84X812-230BR-LT-MR

COMPONENT IDENTIFICATION LEGEND				
ID TAG	COMPONENT DESCRIPTION	MANUFACTURER'S PART NUMBER	COMPONENT PROVIDED BY	COMPONENT INSTALLED BY
FP	FIBER PATCH PANEL	DA-1076-0131IP-1389	DAKTRONICS	CUSTOMER
FE	FIBER ENTRANCE		DAKTRONICS	CUSTOMER
J-BOX	INTERNAL POWER J-BOX		DAKTRONICS	CUSTOMER
CRP	CUSTOM REMOTE POWER PANEL	PR-XXX	DAKTRONICS	CUSTOMER
MD	MAIN DISTRIBUTION PANEL		EXISTING	EXISTING
PS	INTERNAL POWER & SIGNAL TERM PANEL		EXISTING	EXISTING
DS	POWER DISCONNECT SWITCH		EXISTING	EXISTING
PB	MAIN LUG 1200 AMP PANELBOARD		EXISTING	EXISTING

MEMORIAL STADIUM
600 E STADIUM BLVD
COLUMBIA, MO 65201

SUBMITTAL APPROVAL

APPROVED APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT

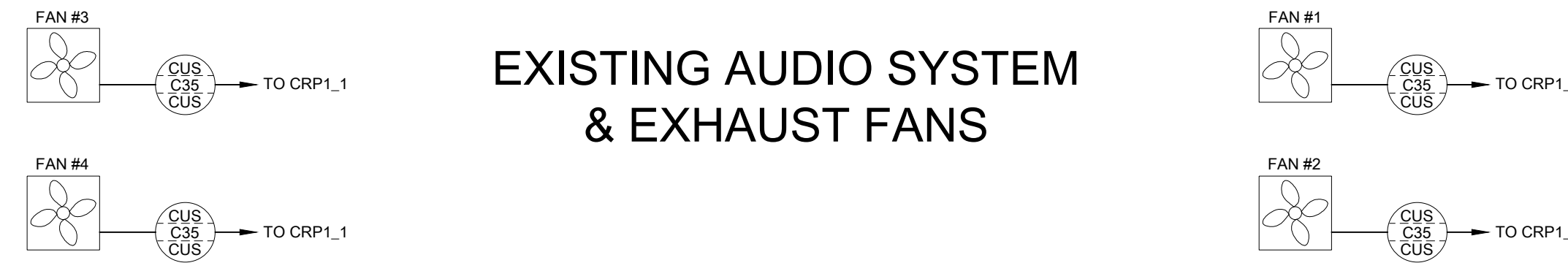
COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

EXISTING AUDIO SYSTEM & EXHAUST FANS

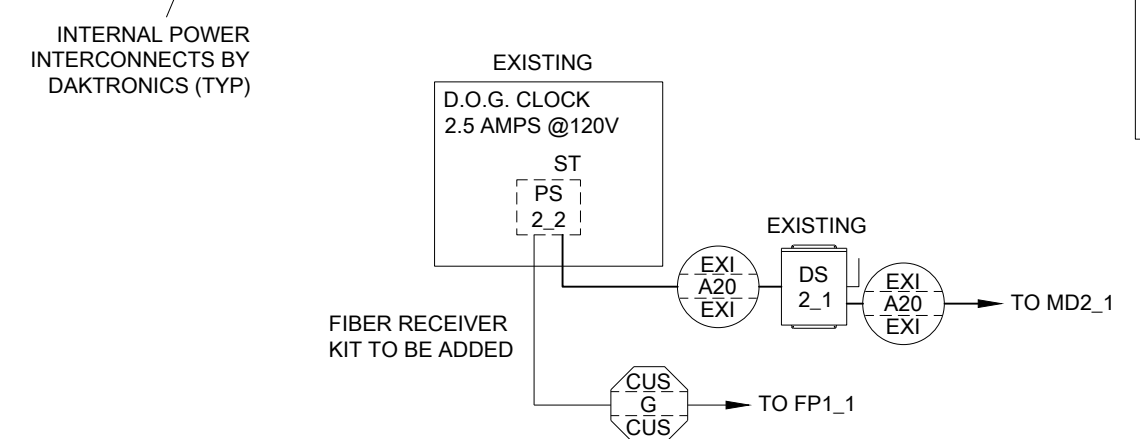
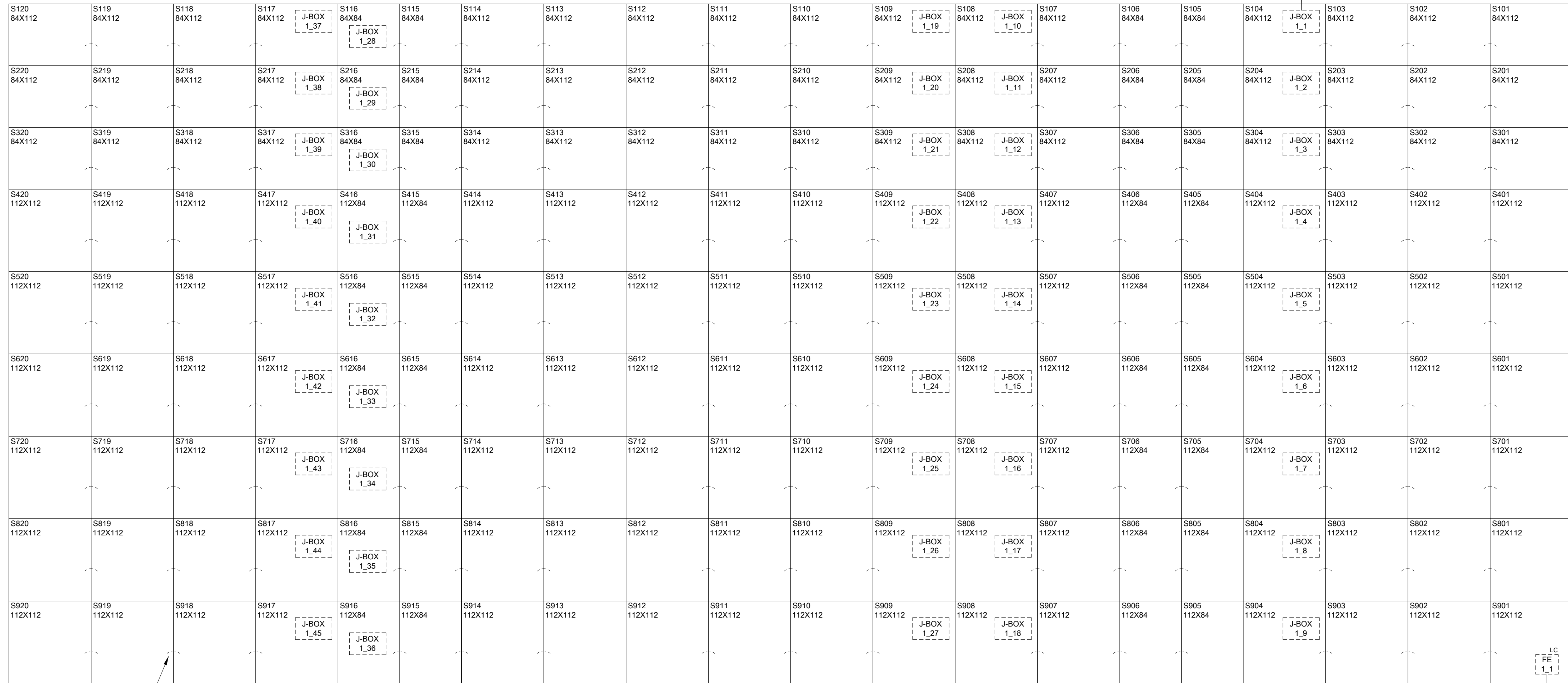
INSTALLERS NOTE: AC POWER WIRING INSTALLED FROM THE FACTORY FOR RIGHT TO LEFT HORIZONTAL SECTION INTERCONNECTION (VIEWED FROM THE REAR). A RECONFIGURATION OF INTERNAL AC HARNESSING WILL BE REQUIRED FOR VERTICAL POWER INTERCONNECTION. THE LEFT TO RIGHT CONFIGURATION ALSO REQUIRES A W-2561 PER J-BOX. THIS SHOULD BE DONE THROUGH THE REAR DOORS BEFORE SECTION INSTALLATION.



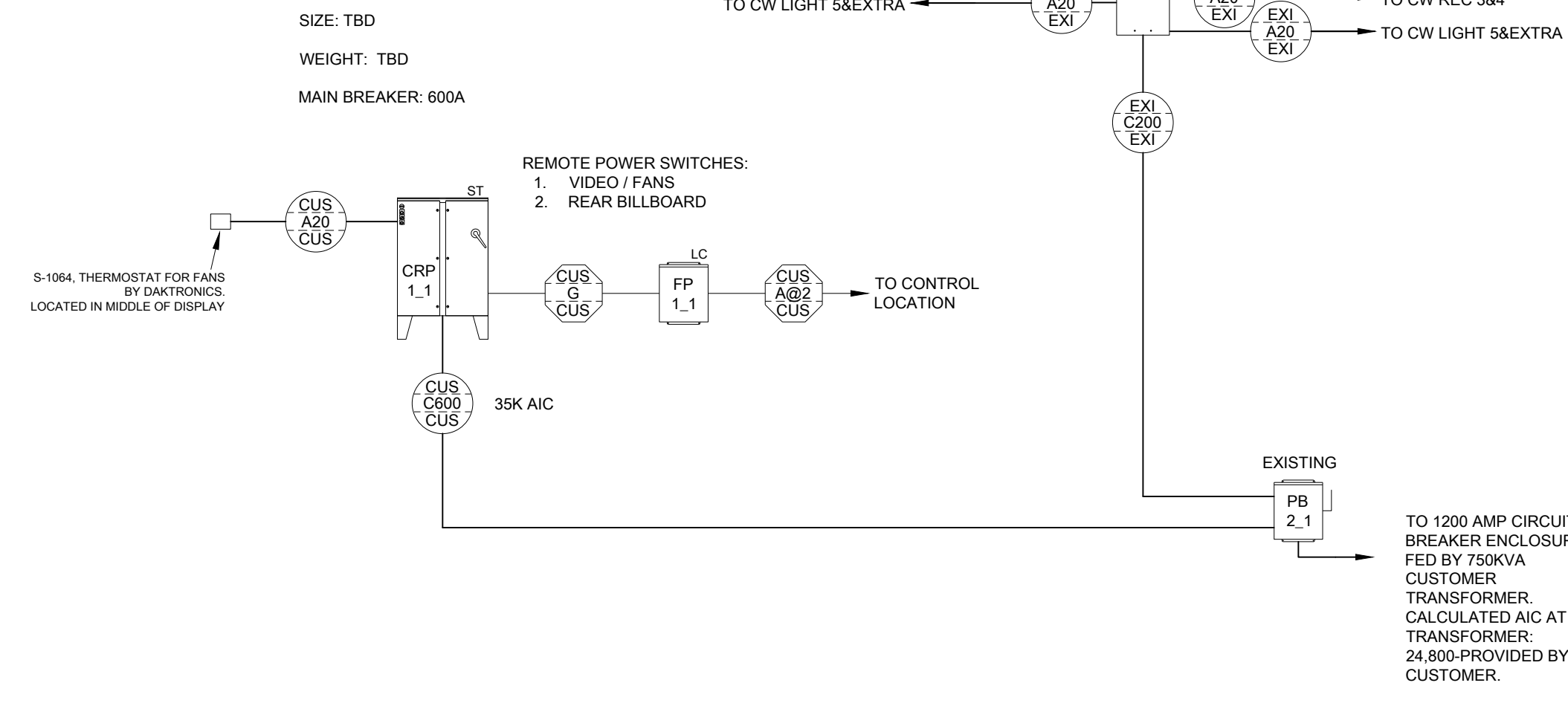
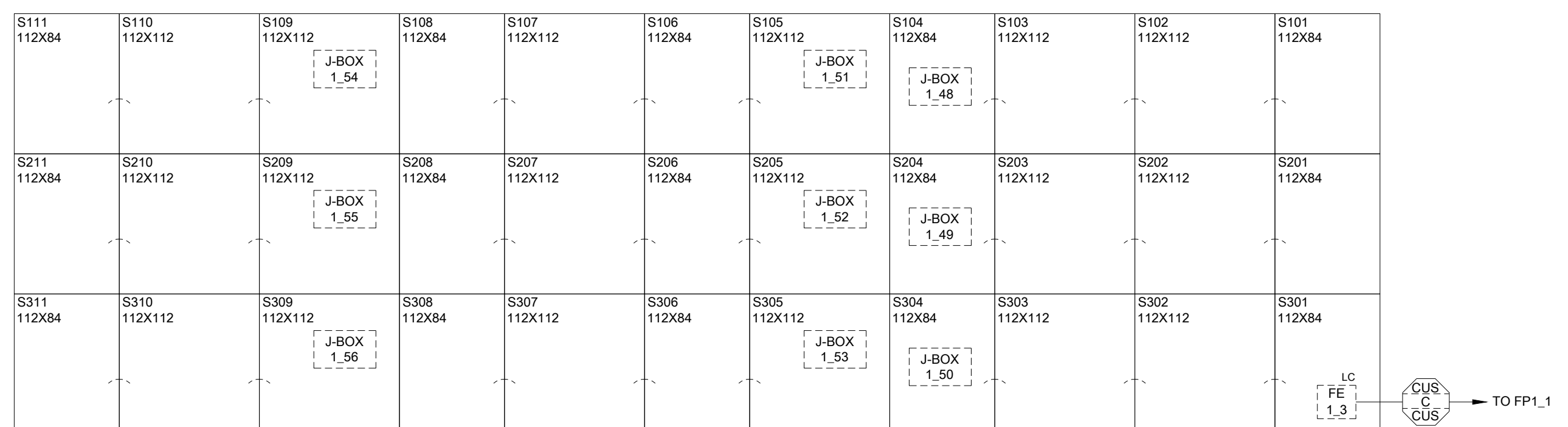
TYP. FOR EACH POWER J-BOX @56
TO CRP1.1
J-BOXES ARE WIRED WITH 2 HOTS + GND TO EACH (208V)

PANEL: CRP1.1 SERVICE: 208Y/120 V 3 PH 4+GND W												
CIRCUIT	AMP LOAD			BRKR	CKT NO.	AMP LOAD			CIRCUIT			
	A	B	C			A	B	C				
JBOX1_1	10.8	10.8	2	2	1	2	12.4	12.4	JBOX1_31			
JBOX1_2	10.8	10.8	2	2	3	4	12.4	12.4	JBOX1_32			
JBOX1_3	10.8	10.8	2	2	5	6	12.4	12.4	JBOX1_33			
JBOX1_4	14.2	14.2	2	2	7	8	12.4	12.4	JBOX1_34			
JBOX1_5	14.2	14.2	2	2	9	10	12.4	12.4	JBOX1_35			
JBOX1_6	14.2	14.2	2	2	11	12	12.4	12.4	JBOX1_36			
JBOX1_7	14.2	14.2	2	2	13	14	12.4	12.4	JBOX1_37			
JBOX1_8	14.2	14.2	2	2	15	16	10.6	10.6	JBOX1_38			
JBOX1_9	14.2	14.2	2	2	17	18	10.6	10.6	JBOX1_39			
JBOX1_10	9.2	9.2	2	2	19	20	14.2	14.2	JBOX1_40			
JBOX1_11	9.2	9.2	2	2	21	22	14.2	14.2	JBOX1_41			
JBOX1_12	9.2	9.2	2	2	23	24	14.2	14.2	JBOX1_42			
JBOX1_13	12.4	12.4	2	2	25	26	14.2	14.2	JBOX1_43			
JBOX1_14	12.4	12.4	2	2	27	28	14.2	14.2	JBOX1_44			
JBOX1_15	12.4	12.4	2	2	29	30	14.2	14.2	JBOX1_45			
JBOX1_16	12.4	12.4	2	2	31	32	10.6	10.6	JBOX1_46			
JBOX1_17	12.4	12.4	2	2	33	34	10.6	10.6	JBOX1_47			
JBOX1_18	12.4	12.4	2	2	35	36	8.8	8.8	JBOX1_48			
JBOX1_19	10.6	10.6	2	2	37	38	8.8	8.8	JBOX1_49			
JBOX1_20	10.6	10.6	2	2	39	40	10.4	10.4	JBOX1_50			
JBOX1_21	10.6	10.6	2	2	41	42	10.4	10.4	JBOX1_51			
JBOX1_22	14.2	14.2	2	2	43	44	10.4	10.4	JBOX1_52			
JBOX1_23	14.2	14.2	2	2	45	46	10.4	10.4	JBOX1_53			
JBOX1_24	14.2	14.2	2	2	47	48	10.4	10.4	JBOX1_54			
JBOX1_25	14.2	14.2	2	2	49	50	9.7	9.7	JBOX1_55			
JBOX1_26	14.2	14.2	2	2	51	52	9.7	9.7	JBOX1_56			
JBOX1_27	9.2	9.2	2	2	53	54	9.7	9.7				
JBOX1_28	9.2	9.2	2	2	55	56	9.7	9.7				
JBOX1_29	9.2	9.2	2	2	57	58	9.7	9.7				
JBOX1_30	9.2	9.2	2	2	59	60	9.7	9.7				
SPARE	-	-	1	20	2	9.7	9.7					
SPARE	-	-	1	20	2	9.7	9.7					
SPARE	-	-	1	20	2	9.7	9.7					
SURGESUPP	-	-	3	30	2	9.7	9.7					
TOTAL LOAD:	A: 546.9	B: 538.2	C: 538.6			TOTAL (KVA):	194.6					

FEDERATION CALCULATION (100% NON-CONTINUOUS + 125% CONTINUOUS LOADS):
TOTAL LOAD: A: 571.1 B: 562.5 C: 566.6



REAR BILLBOARD
DVX-2102-13HD-7500-C-336X1092-230BR-LT-MR



PANEL: MD2.1 SERVICE: 208Y/120 V 3 PH 4+GND W												
CIRCUIT	AMP LOAD			BRKR	CKT NO.	AMP LOAD			CIRCUIT			
	A	B	C			A	B	C				
NOT USED	-	-	2	50	2	50	2	-	NOT USED			
NOT USED	-	-	2	50	2	50	2	-	NOT USED			
NOT USED	-	-	2	50	2	50	2	-	NOT USED			
CW1-2 LITS	16	16	1	20	1	12	12	12	CW3-4 REC			
CW3-4 LITS	16	16	1	20	1	12	12	12	CW5 REC+			
BLANK			13/14	BLANK			BLANK					
CW 5 LITS+	16	16	1	20	1	12	12	12	SOUND			
SOUND	16	16	1	20	1	12	12	12	PS 2.2			
SOUND	16	16	1	20	1	12	12	12	BLANK			
SOUND	16	16	1	20	1	12	12	12	BLANK			
CW1&2 REC	16	16	1	20	1	12	12	12	BLANK			
TOTAL LOAD:	A: 18.0	B: 18.0	C: 18.0			TOTAL (KVA):	18.0					

FEDERATION CALCULATION (100% NON-CONTINUOUS + 125% CONTINUOUS LOADS):
TOTAL LOAD: A: 18.0 B: 18.0 C: 18.0

EXISTING CATWALK LIGHTS & CONVENIENCE RECEPTACLES.

PROJECT MECHANICAL/STRUCTURAL DRAWING INDEX		
SHEET	DRAWING	TITLE
300	5369913	SHOP, 300, INDEX & NOTES
301	5369914	SHOP, 301, FRONT ELEVATION VIEW
302	5369915	SHOP, 302, REAR ELEVATION VIEW
303	5369916	SHOP, 303, PLAN VIEWS
304	5369917	SHOP, 304, SECTION VIEWS
305	5380448	SHOP, 305, STRUCTURE ELEVATION
306	5380449	SHOP, 306, DISPLAY DETAILS

**University of Missouri Memorial Stadium
Responsibility Matrix**

Description	Provided By	Installed By
Main LED Video Display & Attachment Hardware	Owner	Contractor
Captioning LED Video Display & Attachment Hardware	Owner	Contractor
Rear Billboard LED Video Display & Attachment Hardware	Owner	Contractor
Remote Power Panel	Owner	Contractor
Fiber Signal Cable for Video Board	Owner	Contractor
Video Board Interconnect Cabling	Owner	Contractor
Structural Steel & Catwalk Extensions	Contractor	Contractor
Metal Clad Siding & Associated Framing	Contractor	Contractor
Metal Roofing & Associated Framing	Contractor	Contractor
Fulcrum Acoustic Dual 18" Subwoofers & Attachment Hardware	Owner	Contractor
Amplifier Rack	Owner	Contractor
Audio Cabling	Owner	Contractor

ABBREVIATIONS

&	AND	L	LED	LONG LEG HORIZONTAL
@	AT	LLH	LONG LEG HORIZONTAL	
#	NUMBER OR POUND	LLV	LONG LEG VERTICAL	
		LRFD	LOAD AND RESISTANCE FACTOR DESIGN	
		LT (LTG)	LIGHT (LIGHTING)	
		LWC	LIGHTWEIGHT CONCRETE	
		M	METER	
		MAS	MASONRY	
		MAX	MAXIMUM	
		MECH	MECHANICAL	
		MFG	MANUFACTURING	
		MFR	MANUFACTURER	
		MN	MINIMUM	
		MISC	MISCELLANEOUS	
		MTD	MOUNTED	
		MTL	METAL	
		N	NORTH	
		NA	NOT APPLICABLE	
		NIC	NOT IN CONTRACT	
		NO	NUMBER	
		NOM	NOMINAL	
		NTS	NOT TO SCALE	
		OC	ON CENTER	
		OD	OUTSIDE DIAMETER / DIMENSION	
		OPNG	OPENING	
		OZ	OUNCE	
		PC	PRECAST CONCRETE	
		PL	PLATE	
		PLYWD	PLYWOOD	
		PR	PAIR	
		PSF	POUNDS PER SQUARE FOOT	
		PT	POINT	
		PTD	PAINTED	
		QTY	QUANTITY	
		R	RADIUS	
		RCP	REFLECTED CEILING PLAN	
		RE	REFERENCE	
		REINF	REINFORCED	
		REQ'D	REQUIRED	
		REV	REVISION	
		RM	ROOM	
		RO	ROUGH OPENING	
		S	SOUTH	
		SC	SOLID CORE	
		SCHED	SCHEDULE	
		SD	SCUPPER DRAIN	
		SECT	SECTION	
		SF	SQUARE FOOT (FEET)	
		SHT	SHEET	
		SP	SPACING	
		SPEC	SPECIFICATION	
		SPKR	SPEAKER	
		SQ	SQUARE	
		SS	STAINLESS STEEL	
		STD	STANDARD	
		STL	STEEL	
		STRUCT	STRUCTURE / STRUCTURAL	
		SY (SQ YD)	SQUARE YARD(S)	
		T	TREAD	
		TBD	TO BE DETERMINED	
		TCC	TOP OF CONCRETE	
		TOD	TOP OF DISPLAY	
		TOS	TOP OF STAB / TOP OF STEEL	
		TOW	TOP OF WALL	
		TYP	TYPICAL	
		UNO	UNLESS NOTED OTHERWISE	
		VB (VPR BR)	VAPOR BARRIER	
		VERT	VERTICAL	
		W	WEST OR WIDE OR WIDTH	
		W/	WITH	
		W/IN	WITHIN	
		W/O	WITHOUT	
		WD	WOOD	
		WDW	WINDOW	
		WP	WATERPROOF	
		WT	WEIGHT	
ID	INSIDE DIAMETER / DIMENSION			
IN	INCH			
INFO	INFORMATION			
INSUL	INSULATION			
INT	INTERIOR			
JST	JOIST			
JT	JOINT			
JBT (#)	JUNCTION BOX (NUMBER)			
KIP	1000 POUNDS-FORCE			
L	LONG / LENGTH			
LB	POUND			
LH	LONG DIMENSION HORIZONTAL			
LDV	LONG DIMENSION VERTICAL			

1. PROJECT REFERENCE AND GENERAL NOTES

- REFER TO DAKTRONICS RISER DIAGRAM FOR ALL ELECTRICAL POWER AND SIGNAL SPECIFICATIONS.
- REFER TO SPECIFIC PRODUCT INSTALLATION AND MAINTENANCE MANUALS FOR COMPLETE INSTALLATION INSTRUCTIONS.
- REFER TO DRAWING INDEX FOR EACH SPECIFIC DISPLAY INFORMATION AND ITS CORRESPONDING WEIGHT. ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE DUE TO DETAILED DESIGN CONSIDERATIONS.

2. PROJECT RESPONSIBILITIES

- ALL DRAWINGS MUST BE APPROVED BY THE CUSTOMER AND, IF APPLICABLE, BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI BEFORE THEY CAN BE USED FOR FABRICATION OR ERECTION.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS.
- DAKTRONICS IS RESPONSIBLE FOR CERTIFYING THE DISPLAY STRUCTURAL SUPPORT SYSTEM AND ITS INTERFACE TO THE BUILDING AS DETAILED WITHIN THE DRAWING SET.
- DAKTRONICS IS RESPONSIBLE FOR CERTIFYING THE SECONDARY DISPLAY BACKUP STRUCTURE AS DETAILED WITHIN THE DRAWING SET.
- DAKTRONICS IS RESPONSIBLE FOR THE PRIMARY SUPPORT STRUCTURE.
- SURVEYING AND BYCUSTOMER'S SUBCONTRACTOR.
- CUSTOMER'S SUBCONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO INSTALLATION. ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.
- ALL WORK RELATED TO THE MEANS AND METHODS SHALL BE COMPLETED BY THE INSTALLATION CONTRACTOR IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE AND ALL CODES AND STANDARDS. MEANS AND METHODS INCLUDES, BUT IS NOT LIMITED TO:
 - JOBBSITE SAFETY.
 - STAGING, CONSTRUCTION PRACTICES, SITE CLEANUP, AND DISPOSAL OF WASTE MATERIALS.
 - PROTECTION OF EXISTING FACILITIES, STRUCTURES, AND UTILITIES FROM DAMAGE.
 - STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE HAS REACHED ITS FINAL CONDITION. VISITS TO THE SITE MADE BY THE ENGINEER ARE FOR THE REVIEW OF STRUCTURAL WORK FOR GENERAL CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS AND ARE NOT FOR THE PURPOSE OF REVIEW OF CONTRACTOR RESPONSIBILITIES.
- THE STRUCTURAL DOCUMENTS ARE TO BE USED IN COORDINATION WITH DOCUMENTS FROM OTHER TRADES AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- ALL REQUESTED CHANGES IN WORK BY THE CONTRACTOR ARE SUBJECT TO THE APPROVAL OF THE DESIGN TEAM AND OWNER AND ARE CONSIDERED TO BE COMPLETED AT NO ADDITIONAL COSTS UNLESS SPECIFICALLY APPROVED. APPROVAL OF REQUESTED CHANGES DOES NOT CONSTITUTE APPROVAL OF AN INCREASE IN PROJECT COSTS.

3. DAKTRONICS GENERAL DISPLAY NOTES

- ELECTRICAL COMPONENTS ARE ACCESSED FROM THE REAR FOR THE MAIN DISPLAY, FRONT FOR THE CLOSED CAPTIONING, AND REAR FOR THE REAR BILLBOARD.
- LIFT POINTS ARE PROVIDED BY DAKTRONICS IN EACH SECTION. ALL REMOVABLE LIFT POINTS SHALL BE REMOVED AFTER THE INSTALLATION OF EACH SECTION. CAP ANY OPEN HOLES ON AD PANELS OR OTHER INTERNALLY ILLUMINATED DISPLAYS TO PREVENT LIGHT LEAK.
- WHEN LIFTING SECTIONS THE PREFERRED METHOD IS TO USE A SPREADER BEAM TO DISTRIBUTE WEIGHT AMONG ALL LIFT POINTS PROVIDED. FOR ALTERNATE METHOD OF RIGGING REFER TO INSTALLATION MANUAL.
- DEPTH OF CABINET MAY VARY DEPENDING ON DISPLAY TECHNOLOGY.
- DISPLAY MOUNTING HARDWARE PROVIDED BY DAKTRONICS UNLESS SPECIFICALLY NOTED ON DRAWING.
- WHEN INSTALLING DAKTRONICS DISPLAY SECTIONS, DISPLAY JOINTS BETWEEN CONSECUTIVE SECTIONS MUST BE BOLTED OR LATCHED TOGETHER AS DETAILED IN THE INSTALLATION MANUAL.
- IN AN ANECHOIC CHAMBER, THE AVERAGE SOUND PRESSURE LEVEL OF ONE DISPLAY SECTION IS 37.8 dBA, AS MEASURED FROM A DISTANCE OF 3.28 FEET (1 METER) FROM THE REAR OF THE CABINET.
- DAKTRONICS LED DISPLAYS WILL GENERATE HEAT. CONTACT DAKTRONICS IF HEAT GENERATION INFORMATION IS NEEDED.

4. DAKTRONICS DISPLAY VENTILATION NOTES

- THE AIR INTAKE AND EXHAUST ON THE REAR OF THE DAKTRONICS DISPLAYS CANNOT BE OBSTRUCTED.
- MAIN DISPLAY: IN ENCLOSED STRUCTURE SITUATIONS, 57910 CFM OF FORCED VENTILATION MUST BE PROVIDED FOR EXHAUST.
- CLOSED CAPTIONING: IN ENCLOSED STRUCTURE SITUATIONS, 10806 CFM OF FORCED VENTILATION MUST BE PROVIDED FOR EXHAUST.
- REAR BILLBOARD: IN ENCLOSED STRUCTURE SITUATIONS, 2678 CFM OF FORCED VENTILATION MUST BE PROVIDED FOR EXHAUST.
- TOTAL SYSTEM: IN ENCLOSED STRUCTURE SITUATIONS, 71394 CFM OF FORCED VENTILATION MUST BE PROVIDED FOR EXHAUST.

5. CODES AND DESIGN CRITERIA

- PERFORM ALL CONSTRUCTION IN CONFORMANCE WITH THE BUILDING AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. THE PROJECT DOCUMENTS REFER TO THE FOLLOWING CODES AND STANDARDS, U.N.O.:
 - INTERNATIONAL BUILDING CODE, 2021 AND THE FOLLOWING REFERENCED WITHIN:
 - STRUCTURAL CONCRETE**
 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)
 - ACI MANUAL OF CONCRETE PRACTICE, (ACI 404)
 - MASONRY**
 - BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (ACI 530)
 - STRUCTURAL STEEL**

- 5.2.3.1. SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (AISC 360)
- 5.2.3.2. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIGES (AISC 303)
- 5.2.3.3. SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS
- 5.2.3.4. SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI S100)
- 5.2.4. WELDING**
 - 5.2.4.1. STRUCTURAL WELDING CODE: STEEL (AWS D1.1)
 - 5.2.4.2. STRUCTURAL WELDING CODE: ALUMINIUM (AWS D1.2)
 - 5.2.4.3. STRUCTURAL WELDING CODE: STAINLESS STEEL (AWS D1.6)
 - 5.2.4.4. STRUCTURAL WELDING CODE: WELDING ZINC-COATED STEEL (AWS D19.0)
 - 5.2.5. ASCE 7: MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES**
 - 5.2.5.0.1. REFER TO ENGINEER OF RECORD STAMPED DRAWINGS AND CALCULATIONS FOR INFORMATION REGARDING DESIGN CRITERIA

6. STEEL

- 6.1. MATERIAL GRADES, U.N.O.
 - 6.1.1. ALL PLATES SHALL BE ASTM A572 GR50 (F_y = 50 KSI), U.N.O.
 - 6.1.2. FORMED PLATES SHALL BE ASTM A1018 HSLAS-F GR50 (F_y = 50 KSI), U.N.O.
 - 6.1.3. HOLLOW STRUCTURAL STEEL TUBE SHALL BE ASTM A500 GR. C (F_y = 50 KSI)
 - 6.2. HARDWARE, U.N.O.
 - 6.2.1. FOR EXTERIOR STRUCTURES, ALL HARDWARE GALVANIZED PER ASTM F2329 OR B669 CLASS 55
 - 6.2.2. BOLTS SHALL BE HEAVY HEX, ASTM F3125 GRADE A325, TYPE 1
 - 6.2.3. BOLTED NUTS SHALL BE HEAVY HEX, ASTM A563 GRADE DH
 - 6.2.4. WASHERS SHALL BE ASTM F436-1
 - 6.2.5. WHERE LONG-SLOTTED HOLES ARE NOTED ON DRAWINGS, PROVIDE PLATE WASHERS PER AISC J3.
 - 6.2.6. GRADE 5, ZINC-PLATED HARDWARE SHALL BE ACCEPTABLE ONLY WHERE SPECIFIED ON DRAWINGS.
 - 6.2.7. ALL BOLTS IN CONTACT WITH ALUMINUM SHALL BE ZINC PLATED, GALVANIZED, OR STAINLESS STEEL
 - 6.2.8. ALL BOLTS SHALL BE FULLY PRETENSIONED PER APPROVED METHODS LISTED IN AISC AND RCSC STANDARDS, U.N.O.
 - 6.3. COATINGS
 - 6.3.1. **PAINT**
 - 6.3.1.1. IF SPECIFIED IN CONTRACT DOCUMENTS, ALL STRUCTURAL STEEL SHALL MEET CUSTOMER'S AND PAINT SUPPLIER'S SPECIFICATIONS.
 - 6.3.1.2. IF CONTRACT DOCUMENTS DO NOT HAVE A PAINT SPECIFICATION, DAKTRONICS PAINTING SPECIFICATION D01320628 SHALL BE FOLLOWED.
 - 6.3.1.3. TOUCH UP PAINT AFTER INSTALLATION.
 - 6.3.1.4. DISSIMILAR METALS IN CONTACT SHALL BE INSULATED WITH PAINT OR OTHER APPROVED COATING TO PREVENT GALVANIC CORROSION.
 - 6.3.2. **SLIP-CRITICAL SURFACES**
 - 6.3.2.1. FAYING SURFACES SHALL BE COATED WITH A CLASS A COMPLIANT PAINT AND/OR PRIMER
 - 6.3.2.2. FAYING SURFACES SHALL BE PREPARED IN COMPLIANCE WITH THE COATING MANUFACTURER'S SPECIFICATIONS AND RCSC
 - 6.3.2.3. FABRICATORS SHALL SUBMIT COATING SPECIFICATIONS TO DAKTRONICS FOR APPROVAL PRIOR TO PREPARATION OF THE FAYING SURFACES.
- 6.5. **GALVANIZING**
 - 6.5.0.1. IF SPECIFIED IN CONTRACT DOCUMENTS, THE STRUCTURE SHALL BE GALVANIZED PER ASTM A123.
 - 6.5.0.2. GALVANIZED STRUCTURE SHALL BE DETAILED PER ASTM A385.
- 6.6. ALL HOLLOW STRUCTURAL STEEL SECTIONS SHALL BE CAPPED AND WELDED ALL-AROUND TO PREVENT WATER FROM ENTERING THE SECTION. GALVANIZED STRUCTURES DO NOT REQUIRE A FULL CAP. A BAR SHALL BE WELDED ACROSS ENDS OF HSS TO PREVENT BIRDS FROM NESTING. THERE SHALL BE NO OPENING LARGER THAN 2" WIDE. SELF-DRILLING TEK SCREWS SHALL NOT BE USED FOR ATTACHMENT INTO HOLLOW STRUCTURAL STEEL SECTIONS UNLESS A THREAD SEALANT IS USED TO PREVENT WATER FROM ENTERING SECTION.
- 6.6.2. ANY OTHER PENETRATIONS INTO HOLLOW STRUCTURAL STEEL SECTIONS SHALL BE PROPERLY SEALED TO PREVENT WATER INTRUSION.
- 6.6.3. DRAIN HOLES SHALL BE ADDED TO UNDERSIDE OF TUBES AT LOW-POINTS.
- 6.7. **WELDING**
 - 6.7.1. ALL WELDING (SHOP AND FIELD) SHALL BE PERFORMED BY A QUALIFIED WELDER FOR THE SPECIFIED TYPE AND POSITION OF THE REQUIRED WELD PER RELEVANT AWS STANDARD.
 - 6.7.2. ALL STEEL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 AND D19.0.
 - 6.7.3. GAS METAL ARC WELDING (GMAW) OR GAS-SHIELDED FLUX-CORED ARC WELDING (FCAW-G) SHALL BE USED TO PERFORM ALL SHOP WELDS, U.N.O.
 - 6.7.4. LOW HYDROGEN E70 SERIES (70 KSI) ELECTRODES TO BE USED.
 - 6.7.5. FOR WELDING GALVANIZED STEEL, AWS APPROVED PROCEDURES FOR WELDING GALVANIZED STEEL MUST BE ADHERED TO, INCLUDING REMOVAL OF GALVANIZED COATING ON SURFACES TO BE WELDED OR FIELD CERTIFICATION OF PROCEDURES TO WELD THROUGH GALVANIC COATING.
 - 6.7.6. REPAIR SURFACES WHERE GALVANIC COATING HAS BEEN DAMAGED WITH TWO COATS OF 'BRUSH-ON' ZINC ENRICHED PAINT PER ASTM A780 AND TOP COAT OF PAINT, IF APPLICABLE.
 - 6.7.7. REMOVE PAINT PRIOR TO WELDING AND TOUCH-UP AFTER WELDING IS COMPLETE.

7. ACCESS / OSHA REQUIREMENTS

- 7.1. GUARDRAILS
 - 7.1.1. GUARDRAILS MUST COMPLY WITH OSHA INDUSTRY 1910 REQUIREMENTS.
 - 7.1.2. GUARDRAILS REQUIRE A TOP RAIL AT 42" ABOVE THE WALKING SURFACE AND A MID RAIL 21" ABOVE THE WALKING SURFACE WITH A KICK PLATE.
 - 7.1.3. IN MAINTENANCE ENVIRONMENT, TOP RAIL AND POSTS ARE DESIGNED TO ONE CASE:
 - 7.1.3.1. 200 LB CONCENTRATED LOAD ON THE TOP RAIL.
 - 7.1.4. IN PUBLIC GATHERING ENVIRONMENT, HANDRAILS AND POSTS ARE DESIGNED TO TWO CASES.(NOT CONCURRENTLY)

- 7.1.4.1. 200 LB CONCENTRATED LOAD ON THE TOP RAIL
- 7.1.4.2. 50 LBFT LINEAR LOAD ON THE TOP RAIL
- 7.1.5. KICK PLATES
 - 7.1.5.1. KICK PLATES MUST COMPLY WITH OSHA INDUSTRY 1910 REQUIREMENTS
 - 7.1.5.2. KICK PLATES ARE DESIGNED TO 50 LB CONCENTRATED LOAD
- 7.2. BAR GRATING
 - 7.2.1. STEEL BAR GRATING SHALL BE 1"x1/2" TYPE 19W4 MANUFACTURED TO THE LATEST EDITION OF ANSINAAM MBG 531 AND GALVANIZED TO THE LATEST EDITION OF ASTM A123, U.N.O. THE STEEL STRUCTURE SHALL BE PAINTED OR GALVANIZED PER CONTRACT DOCUMENTS BEFORE GRATING IS INSTALLED. GRATING IS NOT REQUIRED TO HAVE A TOP COAT OF PAINT U.N.O. IN THE CONTRACT DOCUMENTS.
 - 7.2.2. THE END OF THE GRATING PANEL SHALL NOT OVERHANG THE GRATING SUPPORT AND MUST BEAR ON THE GRATING SUPPORT A MINIMUM OF 1 INCH. PER THE CONTRACTOR'S CHOICE, GRATING SHALL BE FIRMLY ANCHORED TO THE SUPPORT STRUCTURE WITH EITHER 3/4" LONG, 3/16" FILLET WELDS OR GRATING CLIPS AT MINIMUM INTERVALS AS SPECIFIED IN THE LATEST EDITION OF ANSINAAM MBG 531. SCREWS MAY NOT BE INSTALLED INTO HSS MEMBERS.
 - 7.2.3. IF GRATING IS WELDED, WELDS MUST BE TOUCHED UP WITH EITHER A ZINC RICH PAINT PER THE REQUIREMENTS OF ASTM A780 OR THE PRIMER AND TOP COAT USED ON THE PRIMARY STEEL.
 - 7.2.4. TO PREVENT INJURY, ALL GRATING SHALL BE BANDED ON THE ENDS OF THE BEARING BARS WHERE SERVICE PERSONNEL MAY PUNCTURE THEMSELVES ON THE BEARING BAR ENDS. THIS IS NOT REQUIRED ON THE PERIMETER EDGES OF CATWALKS.
 - 7.2.5. MAXIMUM GAP IN FLOOR SURFACE IS 2 INCHES. FILL ALL GRATING GAPS THAT ARE LARGER THAN 2 INCHES WITH SAME FLOOR MATERIAL TO CREATE A FLUSH WALKING SURFACE. INFILL MUST SUPPORT THE LARGER OF A 300 LB POINT LOAD OR 40 PSF AREA LOAD.

8. SPECIAL INSPECTIONS

- 8.1. STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE BUILDING CODE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. ALTERNATIVELY, SPECIAL INSPECTION OF MATERIALS, WELDING, AND FABRICATION PROCEDURES SHALL BE REQUIRED FOR FABRICATION BY AN UNAPPROVED FABRICATOR.
- 8.2. NO FIELD WELDING SHALL BE PERMITTED UNLESS NOTED OTHERWISE.
- 8.3. THE FOLLOWING SPECIAL INSPECTIONS, WHERE APPLICABLE, SHALL BE REQUIRED PER CHAPTER 17 OF THE BUILDING CODE:
 - 8.3.1. PERIODIC SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING PER AISC 360, CHAPTER N (IF APPLICABLE)
 - 8.3.2. SPECIAL INSPECTION OF FIELD WELDING PER AISC 360, CHAPTER N (IF APPLICABLE)
- 8.4. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL. THUS, INSPECTION ITEMS ABOVE MAY BE WAIVED AS DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.
- 8.5. NO STRUCTURAL OBSERVATION IS REQUIRED.

**U OF MISSOURI
MEMORIAL STADIUM**

MEMORIAL STADIUM
800 E STADIUM BLVD
COLUMBIA, MO 65201

SUBMITTAL APPROVAL

APPROVED APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT

COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

APPROVED FOR CONSTRUCTION



PROJECT LOCATION

REV 02	DATE: 26MAR24	REVISED TITLE BLOCK TO BE APPROVED FOR CONSTRUCTION	BY: JAL
REV 01	DATE: 19FEB24	REVISIONS MADE PER CUSTOMER COMMENTS AND EOR REVIEW	BY: JAL
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PROJECT: U OF MISSOURI		DRAWING: SHOP, 300, INDEX & NOTES	
DATE: 04DEC23	SCALE: 1=1	SUBUNITS: INCHES (MILLIMETERS)	SHEET: 02
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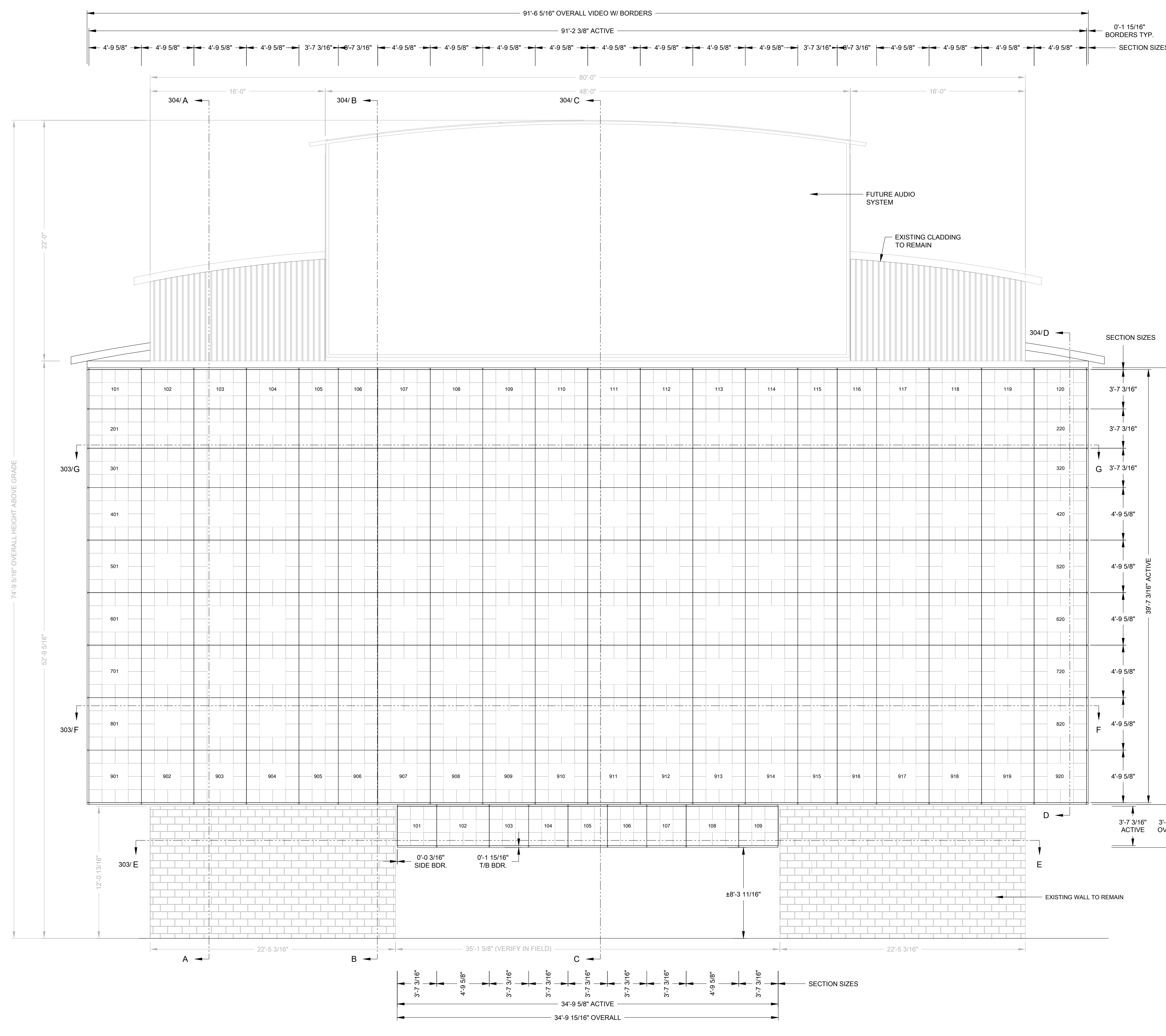
U OF MISSOURI
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SUBMITTAL APPROVAL

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COMPANY: _____
SIGNED: _____
TITLE: _____ DATE: _____

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ELEVATION VIEW
FRONT

MAIN DISPLAY
TASK 3320

SECTION #	SECTION SIZE (HxW-MODS)	SECTION SIZE (HxW-PIXELS)	SECTION WEIGHT (LB)
101	3x4	84x112	156
102	3x4	84x112	156
103	3x4	84x112	156
104	3x4	84x112	156
105	3x3	84x84	117
106	3x3	84x84	117
107	3x4	84x112	156
108	3x4	84x112	156
109	3x4	84x112	156
110	3x4	84x112	156
111	3x4	84x112	156
112	3x4	84x112	156
113	3x4	84x112	156
114	3x4	84x112	156
115	3x3	84x84	117
116	3x3	84x84	117
117	3x4	84x112	156
118	3x4	84x112	156
119	3x4	84x112	156
120	3x4	84x112	156
201	3x4	84x112	156
202	3x4	84x112	156
203	3x4	84x112	156
204	3x4	84x112	156
205	3x3	84x84	117
206	3x3	84x84	117
207	3x4	84x112	156
208	3x4	84x112	156
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211	3x4	84x112	156
212	3x4	84x112	156
213	3x4	84x112	156
214	3x4	84x112	156
215	3x3	84x84	117
216	3x3	84x84	117
217	3x4	84x112	156
218	3x4	84x112	156
219	3x4	84x112	156
220	3x4	84x112	156
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305	3x3	84x84	117
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314	3x4	84x112	156
315	3x3	84x84	117
316	3x3	84x84	117
317	3x4	84x112	156
318	3x4	84x112	156
319	3x4	84x112	156
320	3x4	84x112	156

CLOSED CAPTIONING
TASK 3310

SECTION #	SECTION SIZE (HxW-MODS)	SECTION SIZE (HxW-PIXELS)	SECTION WEIGHT (LB)
101	3x3	84x84	117
102	3x4	84x112	156
103	3x3	84x84	117
104	3x3	84x84	117
105	3x3	84x84	117
106	3x3	84x84	117
107	3x3	84x84	117
108	3x4	84x112	156
109	3x3	84x84	117

# OF SECTIONS	DISPLAY SIZE (HxW-MODS)	DISPLAY SIZE (HxW-PIXELS)	TOTAL WEIGHT (LB)
9	3x28	84x812	1131

DVX-2102-13HD-84X812 TOTALS			
# OF SECTIONS	DISPLAY SIZE (HxW-MODS)	DISPLAY SIZE (HxW-PIXELS)	TOTAL WEIGHT (LB)
180	33x76	924x2128	32604

401	4x4	112x112	208
402	4x4	112x112	208
403	4x4	112x112	208
404	4x4	112x112	208
405	4x3	112x84	156
406	4x3	112x84	156
407	4x4	112x112	208
408	4x4	112x112	208
409	4x4	112x112	208
410	4x4	112x112	208
411	4x4	112x112	208
412	4x4	112x112	208
413	4x4	112x112	208
414	4x4	112x112	208
415	4x3	112x84	156
416	4x3	112x84	156
417	4x4	112x112	208
418	4x4	112x112	208
419	4x4	112x112	208
420	4x4	112x112	208
501	4x4	112x112	208
502	4x4	112x112	208
503	4x4	112x112	208
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505	4x3	112x84	156
506	4x3	112x84	156
507	4x4	112x112	208
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515	4x3	112x84	156
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616	4x3	112x84	156
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718	4x4	112x112	208
719	4x4	112x112	208
720	4x4	112x112	208
801	4x4	112x112	208
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816	4x3	112x84	156
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911	4x4	112x112	208
912	4x4	112x112	208
913	4x4	112x112	208
914	4x4	112x112	208
915	4x3	112x84	156
916	4x3	112x84	156
917	4x4	112x112	208
918	4x4	112x112	208
919	4x4	112x112	208
920	4x4	112x112	208

REV	DATE	DESCRIPTION	BY
02	28MAR24	REVISED TITLE BLOCK TO BE APPROVED FOR CONSTRUCTION	JAL
01	19FEB24	REVISIONS MADE PER CUSTOMER COMMENTS AND EDR REVIEW	JAL

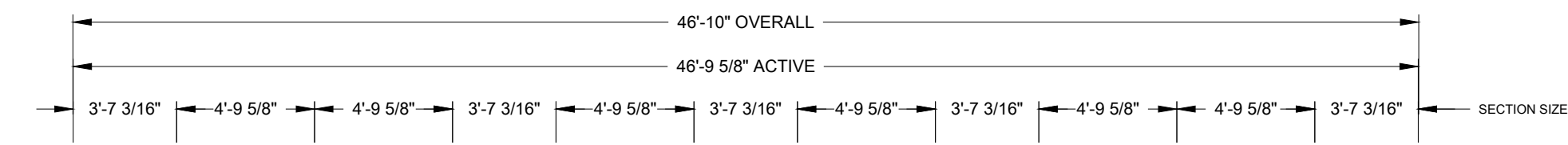
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800 E STADIUM BLVD
COLUMBIA, MO 65201

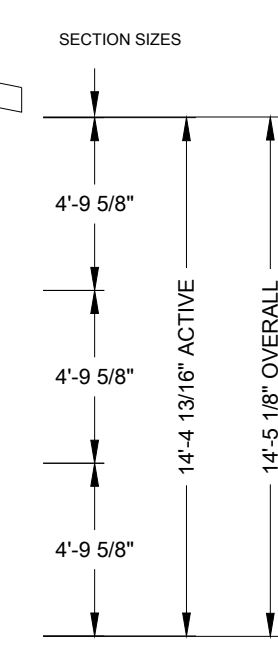
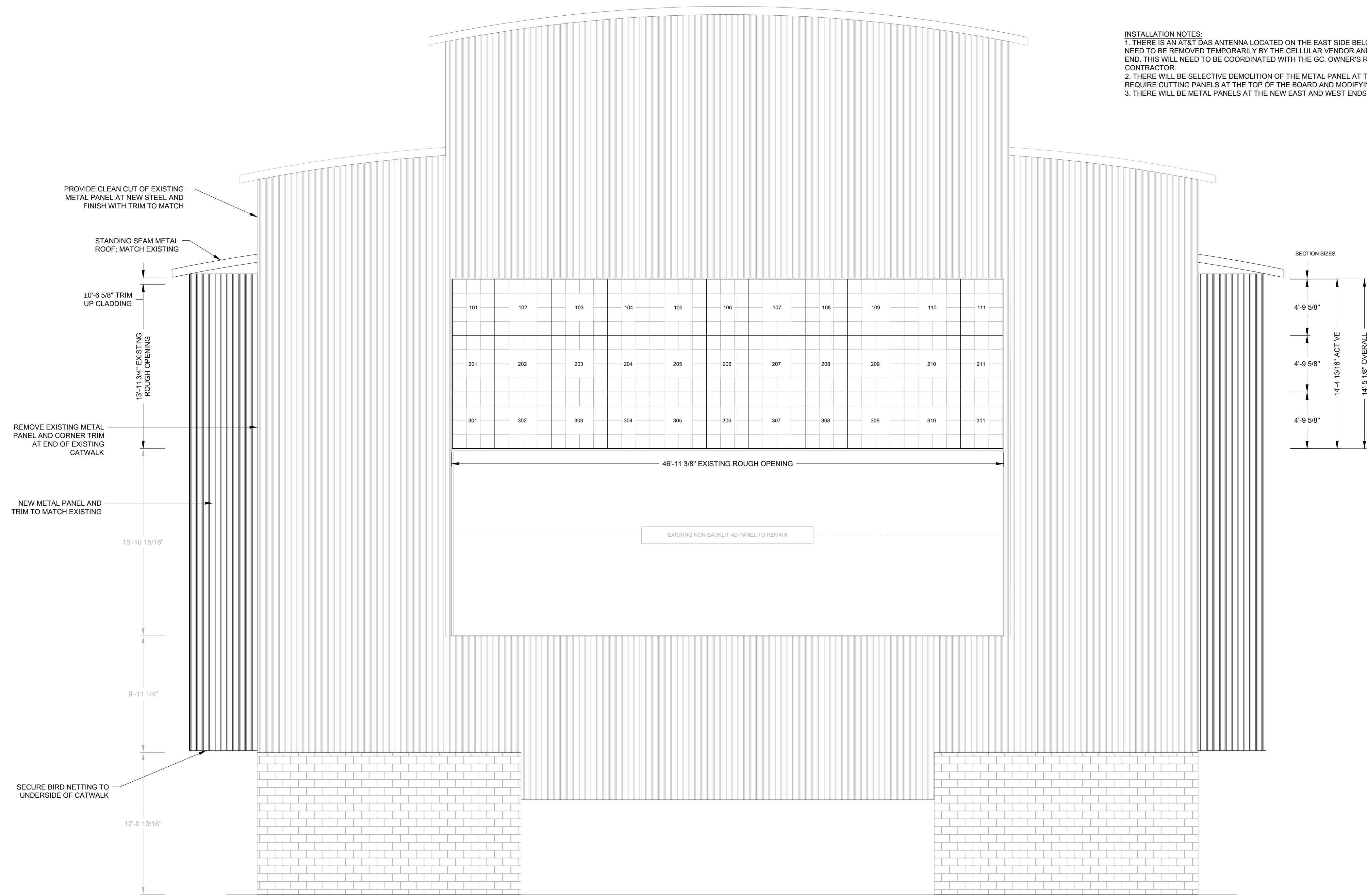
SUBMITTAL APPROVAL

APPROVED APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT
COMPANY: _____
SIGNED: _____
TITLE: _____ DATE: _____

APPROVED FOR CONSTRUCTION



INSTALLATION NOTES:
1. THERE IS AN AT&T DAS ANTENNA LOCATED ON THE EAST SIDE BELOW THE EXHAUST FANS. IT WILL NEED TO BE REMOVED TEMPORARILY BY THE CELLULAR VENDOR AND REINSTALLED AT THE NEW EAST END. THIS WILL NEED TO BE COORDINATED WITH THE GC, OWNER'S REPRESENTATIVE AND CELLULAR CONTRACTOR.
2. THERE WILL BE SELECTIVE DEMOLITION OF THE METAL PANEL AT THE EAST AND WEST ENDS. IT WILL REQUIRE CUTTING PANELS AT THE TOP OF THE BOARD AND MODIFYING THE TRIM AT THE CORNERS.
3. THERE WILL BE METAL PANELS AT THE NEW EAST AND WEST ENDS AND REAR.



REAR BILLBOARD
TASK 3300

SECTION #	SECTION SIZE (HxW-MODS)	SECTION SIZE (HxW-PIXELS)	SECTION WEIGHT (LB)
101	4X3	112X84	156
102	4X4	112X112	208
103	4X4	112X112	208
104	4X3	112X84	156
105	4X4	112X112	208
106	4X3	112X84	156
107	4X4	112X112	208
108	4X3	112X84	156
109	4X4	112X112	208
110	4X4	112X112	208
111	4X3	112X84	156
201	4X3	112X84	156
202	4X4	112X112	208
203	4X4	112X112	208
204	4X3	112X84	156
205	4X4	112X112	208
206	4X3	112X84	156
207	4X4	112X112	208
208	4X3	112X84	156
209	4X4	112X112	208
210	4X4	112X112	208
211	4X3	112X84	156
301	4X3	112X84	156
302	4X4	112X112	208
303	4X4	112X112	208
304	4X3	112X84	156
305	4X4	112X112	208
306	4X3	112X84	156
307	4X4	112X112	208
308	4X3	112X84	156
309	4X4	112X112	208
310	4X4	112X112	208
311	4X3	112X84	156
DVX-2102-13HD-336X1092 TOTALS			
# OF SECTIONS	DISP. SIZE (HxW-MODS)	DISP. SIZE (HxW-PIXELS)	TOTAL WEIGHT (LB)
33	12X39	336X1092	6084

ELEVATION VIEW
REAR

REV 02	DATE: 28MAR24	REVISED TITLE BLOCK TO BE APPROVED FOR CONSTRUCTION AND EDP REVIEW	BY: JAL
REV 01	DATE: 19FEB24	REVISIONS MADE PER CUSTOMER COMMENTS	BY: JAL

THE CONTRACTOR SURVEYS AND IS FULLY RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND PROPERTIES SHOWN ON THIS DRAWING. ANY REVISIONS MUST BE APPROVED BY THE ARCHITECT AND ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. CONTRACTOR SHALL MAINTAIN RECORDS OF THIS PROJECT.

PROJECT: U OF MISSOURI	TITLE: SHOP 302 REAR ELEVATION VIEW	DATE: 04DEC23	SCALE: 3/16"=1'	DRAWN: JLOVSETH
UNITS: INCHES (MILLIMETERS)	DO NOT SCALE DRAWING	SHEET: V302	REV: 02	JOB NO: C32591
DRAWN: JLOVSETH				

5369915

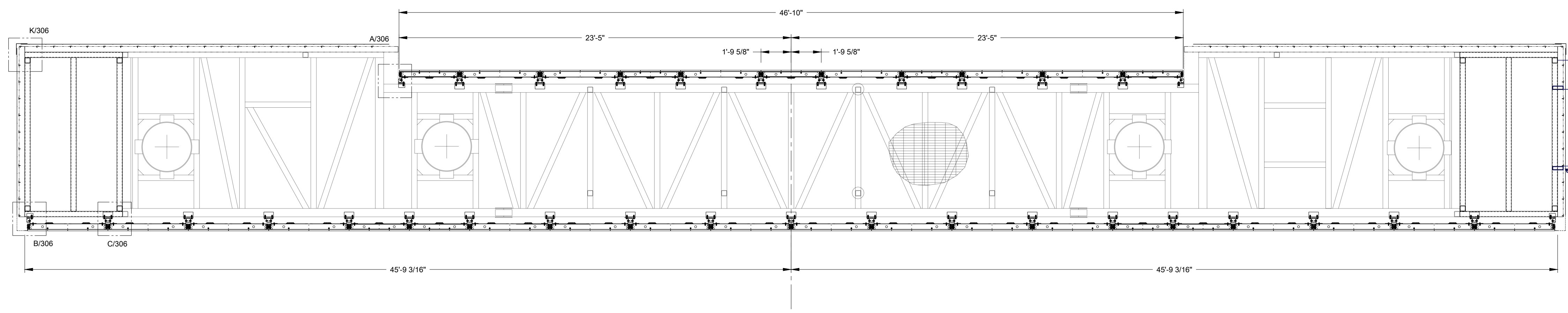
APPROVED APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT

COMPANY: _____

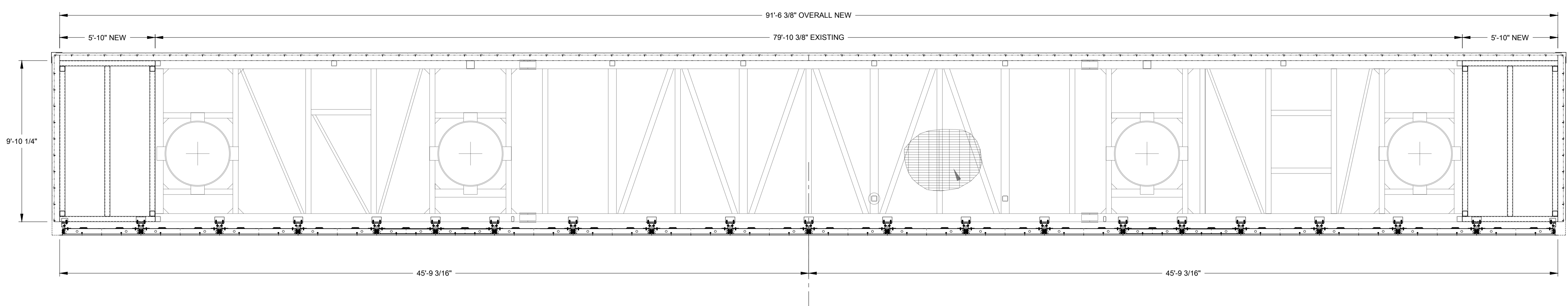
SIGNED: _____

TITLE: _____ DATE: _____

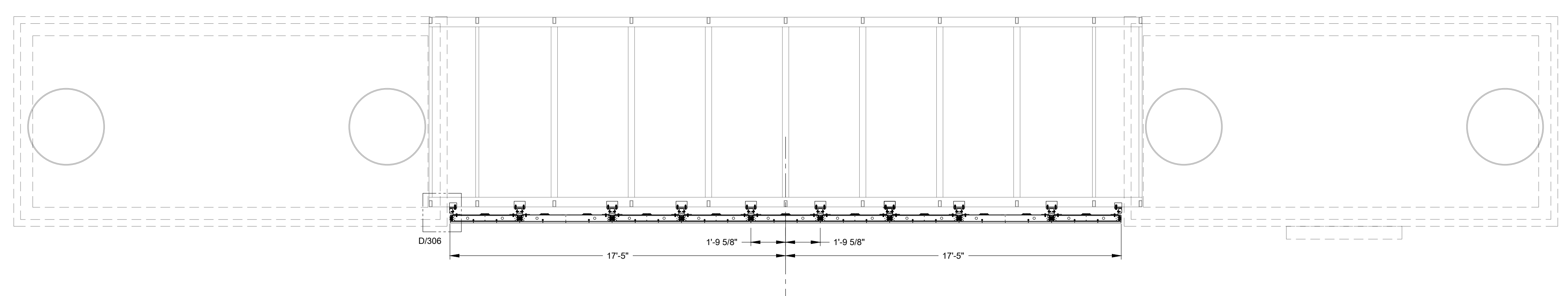
APPROVED FOR CONSTRUCTION



SECTION G-G



SECTION F-F



SECTION E-E

REV 02	DATE 28MAR24	REVISED TITLE BLOCK TO BE APPROVED FOR CONSTRUCTION	BY: JAL
REV 01	DATE 19FEB24	REVISIONS MADE PER CUSTOMER COMMENTS AND LSP REVIEW	BY: JAL

THE CONCRETE DIMENSIONS AND SET FALL SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAYTON COLLECTIVE, INC. OR ITS UNAFFILIATED SUBSIDIARIES. CONFIDENTIAL 2024 DAYTON COLLECTIVE, INC. USA

PROJECT: U OF MISSOURI	TITLE: SHOP 303 PLAN VIEWS	DRAWN: JLOVSETH	CHECKED: JLOVSETH
DATE: 04DEC23	SCALE: 1/4"=1'	DATE: 04DEC23	SCALE: 1/4"=1'
DESIGN: JLOVSETH	DRAWN: JLOVSETH	DATE: 04DEC23	SCALE: 1/4"=1'
JOB NO: C32591	FIG: F-10-D	SHEET: V303	REV: 02

5369916

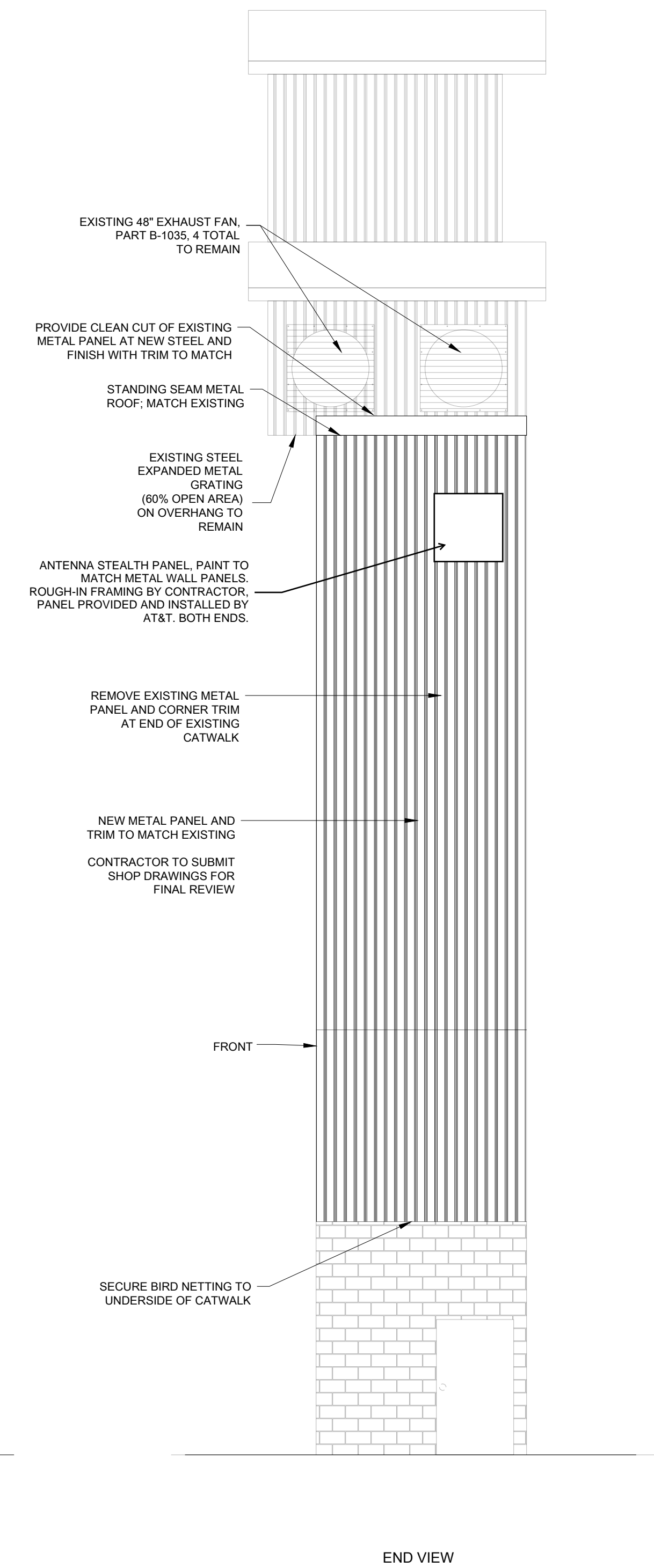
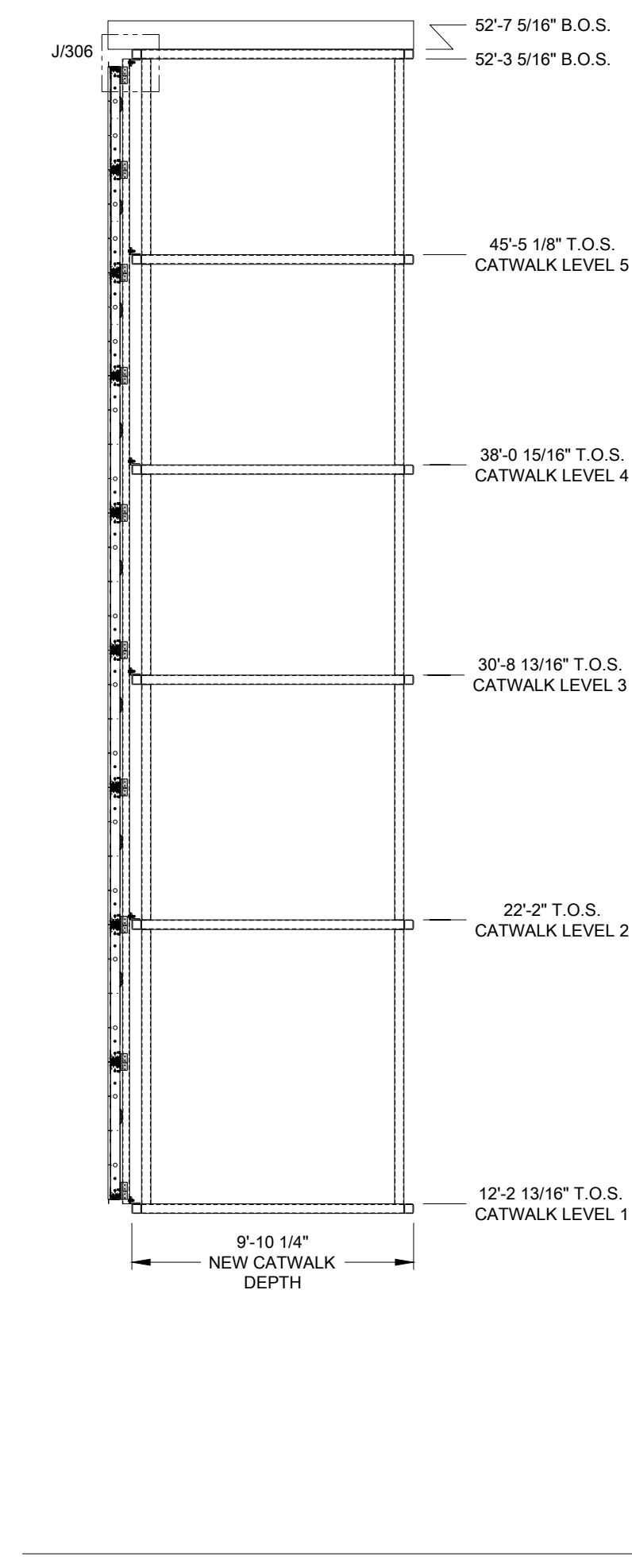
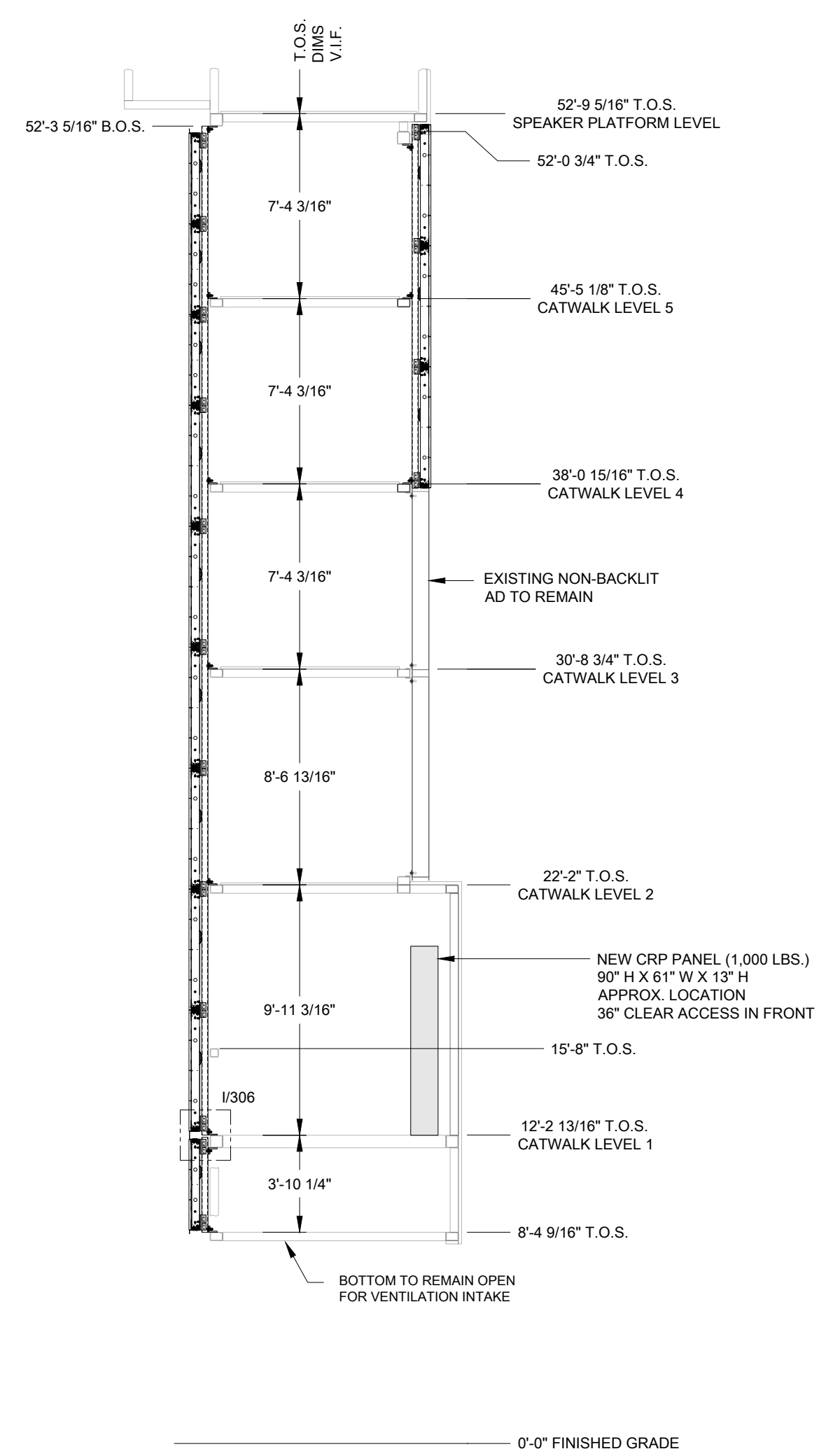
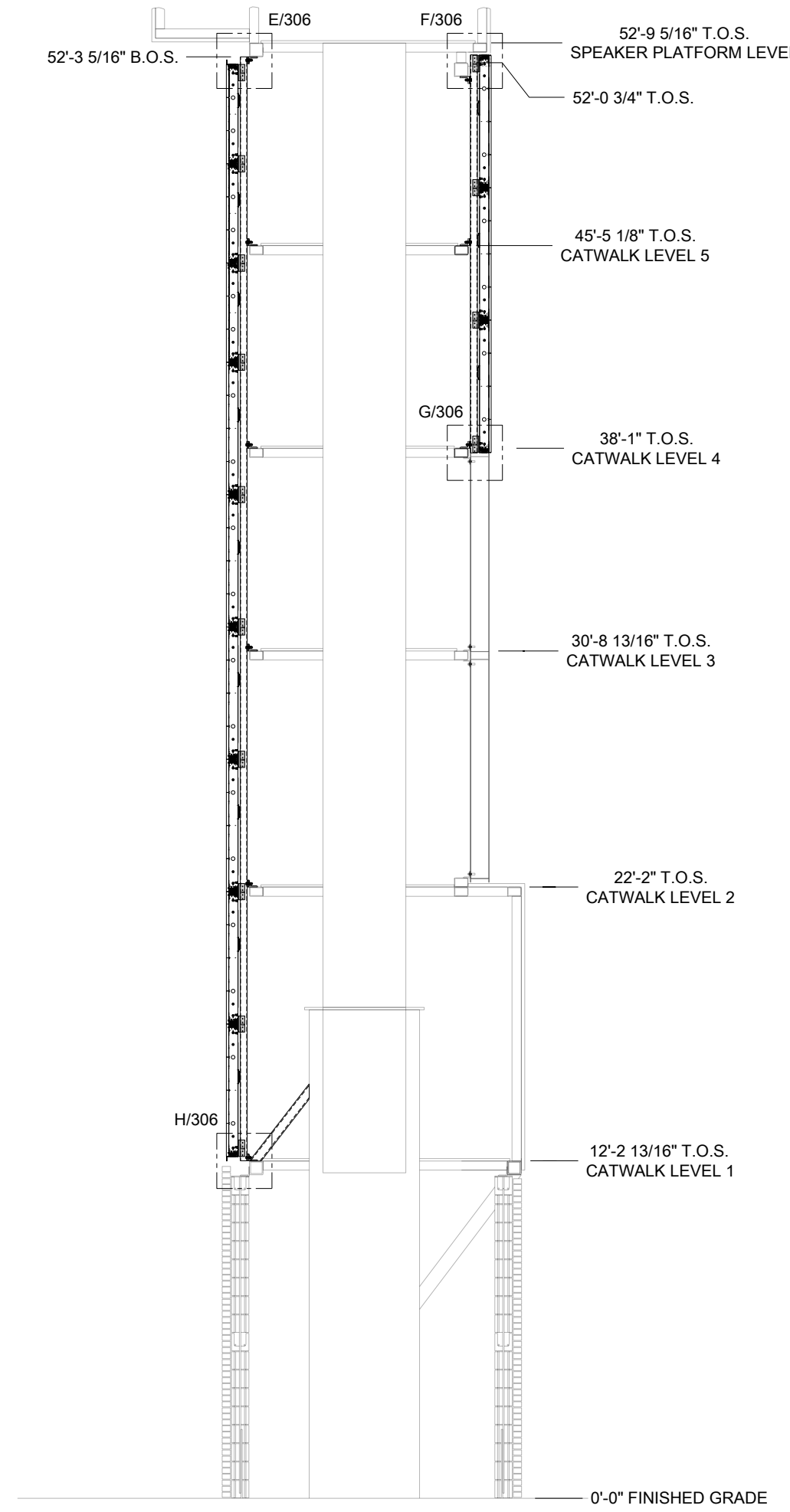
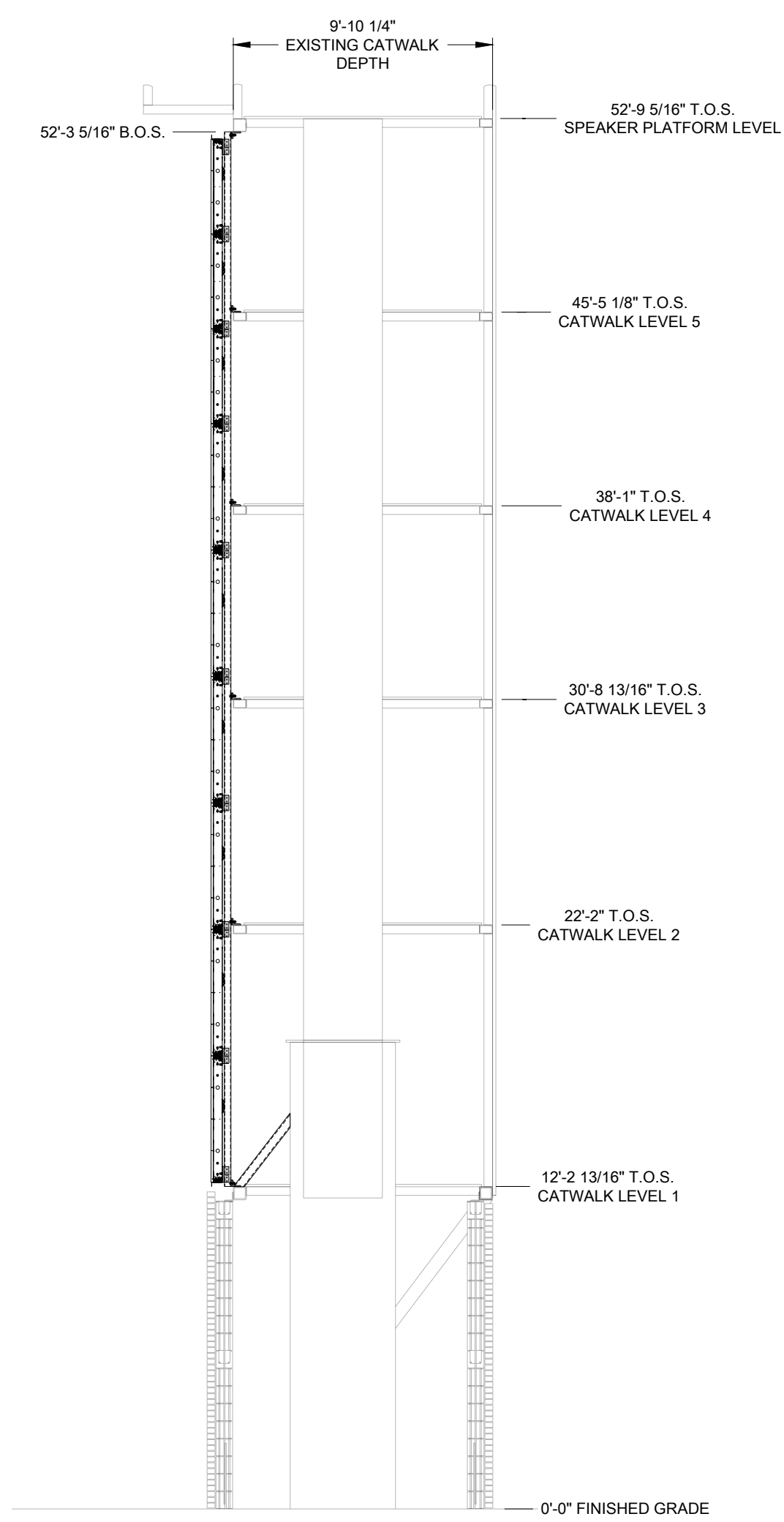
U OF MISSOURI
MEMORIAL STADIUM

MEMORIAL STADIUM
800 E STADIUM BLVD
COLUMBIA, MO 65201

SUBMITTAL APPROVAL

APPROVED APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT
COMPANY: _____
SIGNED: _____
TITLE: _____ DATE: _____

APPROVED FOR CONSTRUCTION



SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

END VIEW

REV 02	DATE 28MAR24	REVISED TITLE BLOCK TO BE APPROVED FOR CONSTRUCTION	BY: JAL
REV 01	DATE 19FEB24	REVISIONS MADE PER CUSTOMER COMMENTS AND EOR REVIEW	BY: JAL

THE CONTRACTOR SURVEYS AND SET FALLS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAYTONES, INC. OR ITS EXCLUSIVELY APPOINTED SUBSIDIARIES. CONFIDENTIAL SURVEYING, INC. 2024

PROJECT: U OF MISSOURI			
TITLE: SHOP 304 SECTION VIEWS	DRAWN: JLOVSETH	SHEET: V304	REV: 02
DATE: 04DEC23	SCALE: 3/16"=1'	DO NOT SCALE DRAWING	
DESIGN: JLOVSETH	JOB NO: C32591	FILE: 110-D	
DRAWN: JLOVSETH			5369917

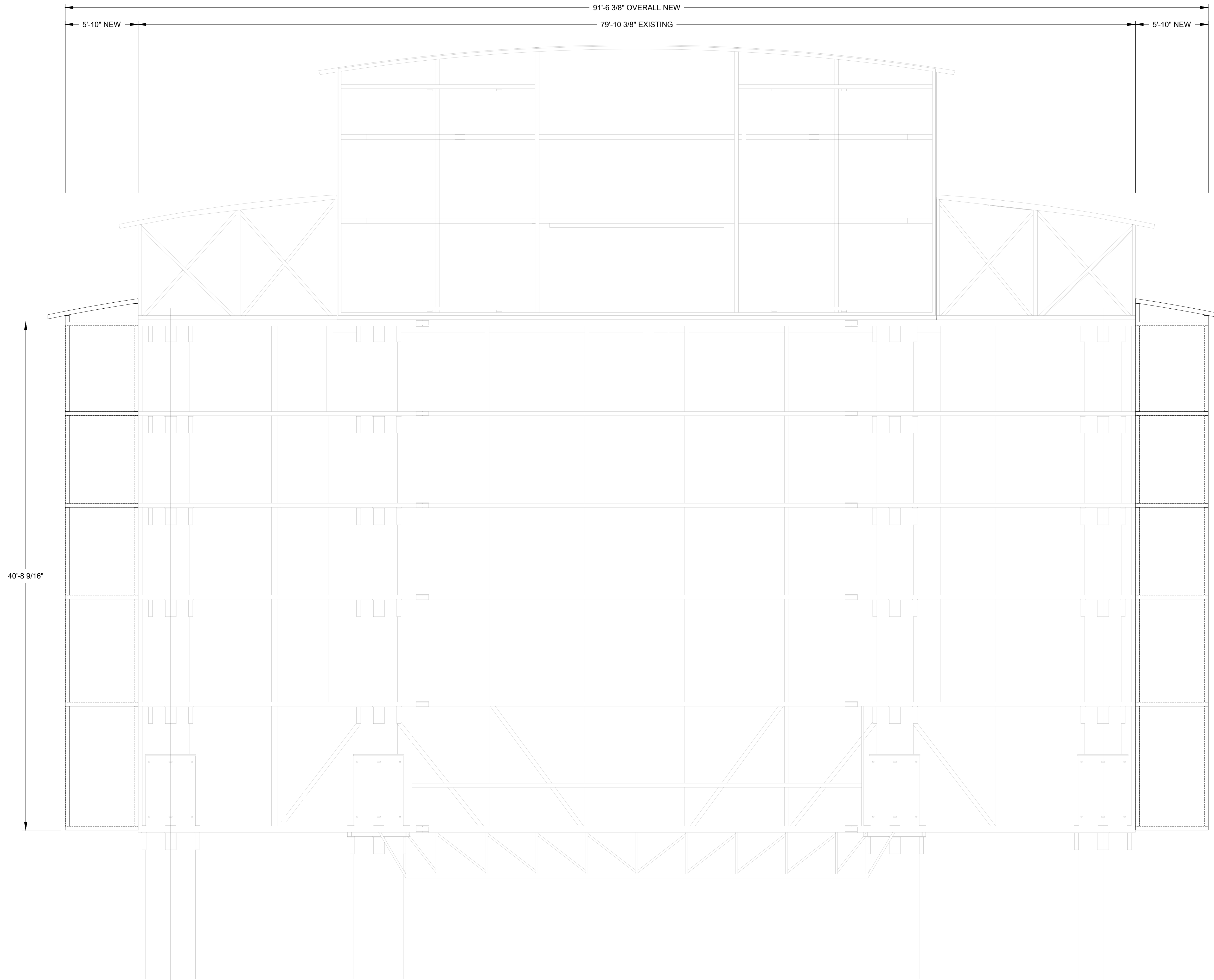
U OF MISSOURI
MEMORIAL STADIUM

MEMORIAL STADIUM
800 E STADIUM BLVD
COLUMBIA, MO 65201

SUBMITTAL APPROVAL

APPROVED APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT
COMPANY: _____
SIGNED: _____
TITLE: _____ DATE: _____

APPROVED FOR CONSTRUCTION



ELEVATION VIEW

FRONT
(STRUCTURE ONLY DISPLAY VERTICALS NOT SHOWN FOR CLARITY)
REFER TO ENGINEER OF RECORD DRAWINGS FOR MEMBER SIZE,
ATTACHMENT DETAILS AND SPECIFICATIONS.

REV 02	DATE 28MAR24	REVISED TITLE BLOCK TO BE APPROVED FOR CONSTRUCTION	BY: JAL
REV 01	DATE 19FEB24	REVISIONS MADE PER CUSTOMER COMMENTS AND EOR REVIEW	BY: JAL
PROJECT: U OF MISSOURI		SHEET 02	
TITLE: SHOP 305 STRUCTURE ELEV. NEW & EXISTING		SHEET 02	
DATE: 04DEC23	DRAWN: INCHES (MILLIMETERS)	DO NOT SCALE DRAWING	
SCALE: 1/4"=1'	JOB NO. C32591	FILE: F-10-D	5380448
DESIGN: JLOVSETH	DATE: 04DEC23	5380448	
DRAWN: JLOVSETH	DATE: 04DEC23	5380448	

U OF MISSOURI
MEMORIAL STADIUM

MEMORIAL STADIUM
800 E STADIUM BLVD
COLUMBIA, MO 65201

SUBMITTAL APPROVAL

APPROVED APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT

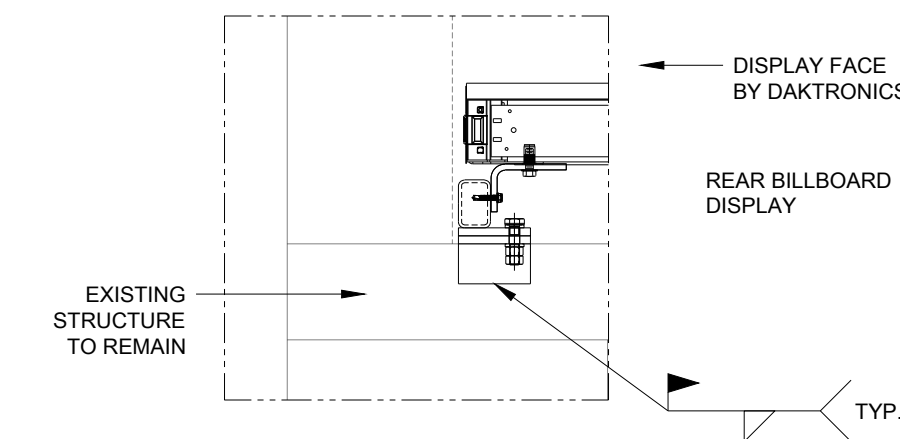
COMPANY: _____

SIGNED: _____

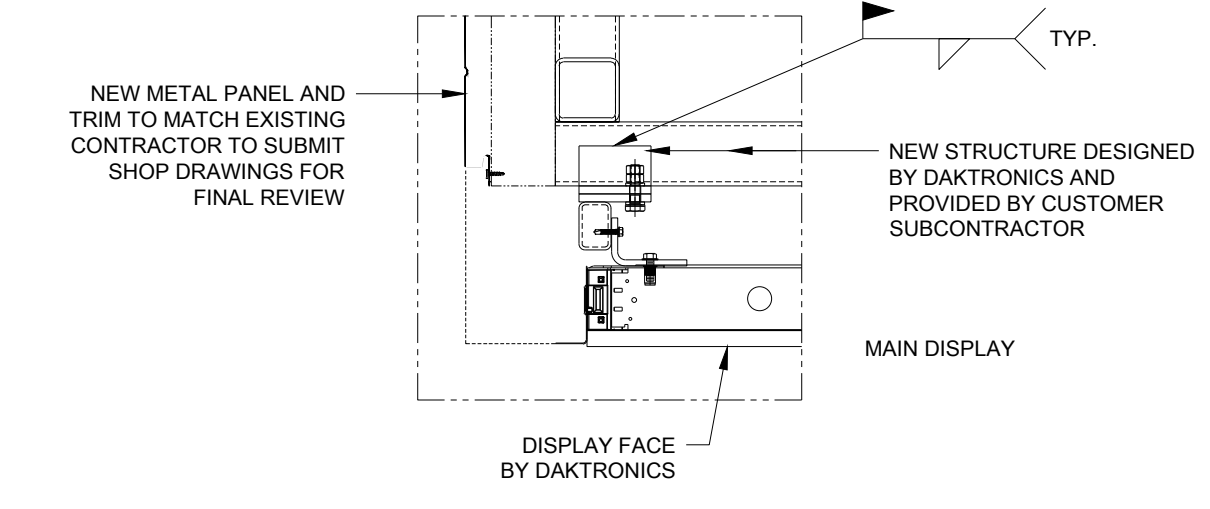
TITLE: _____ DATE: _____

APPROVED FOR CONSTRUCTION

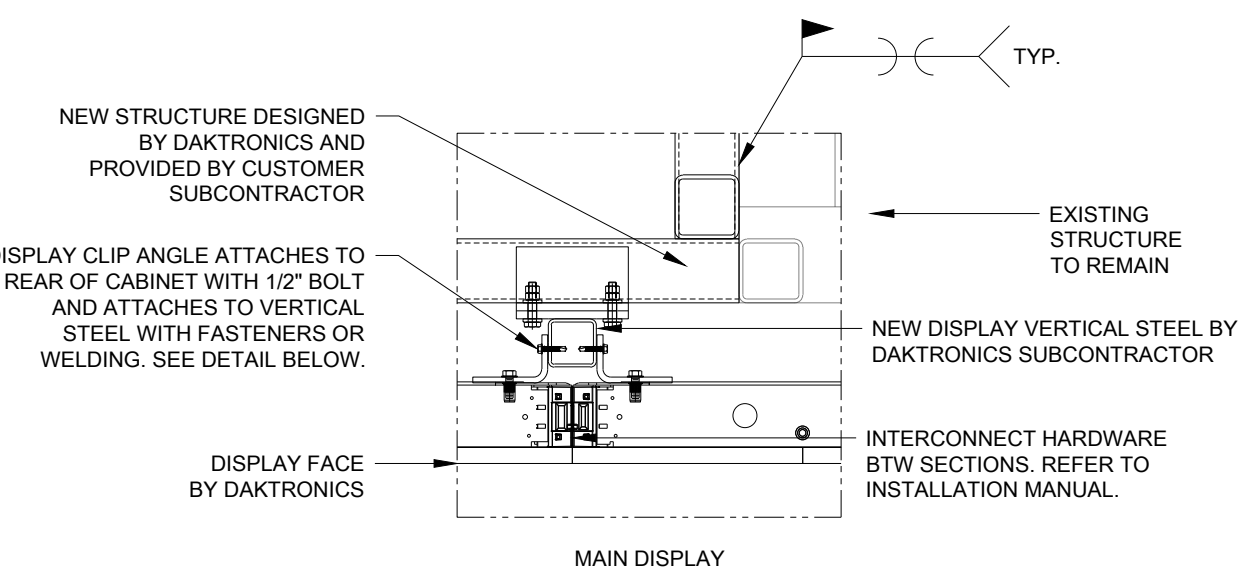
DETAIL A



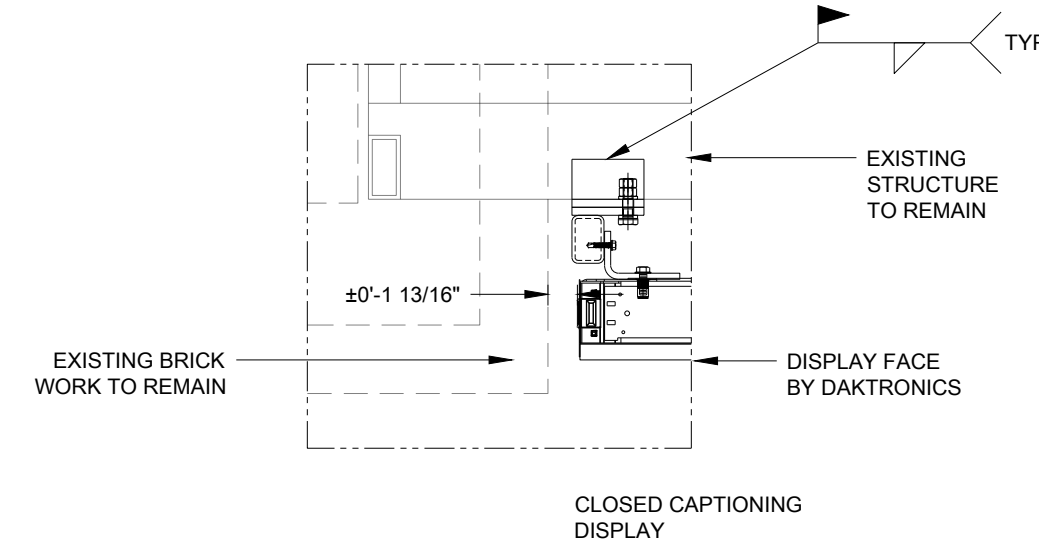
DETAIL B



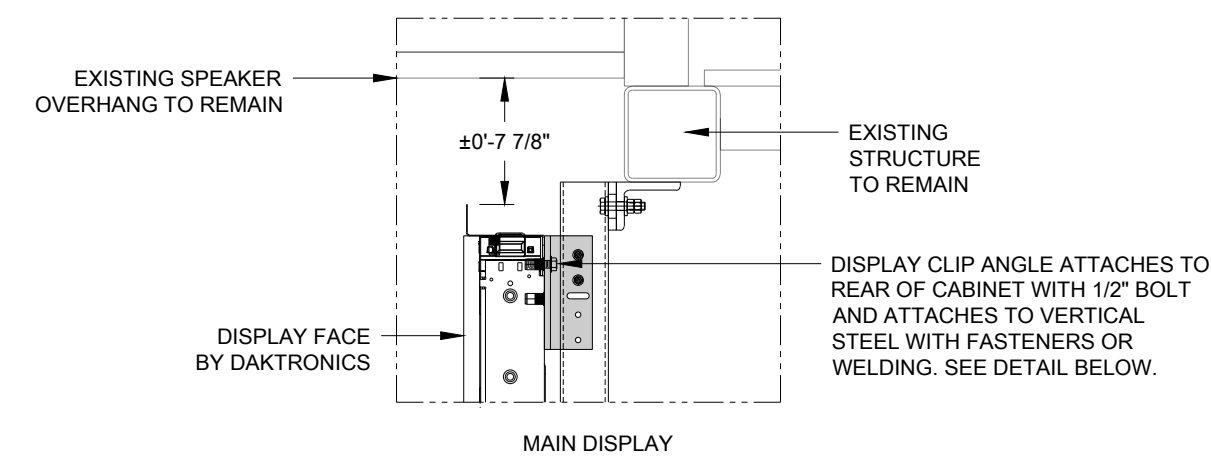
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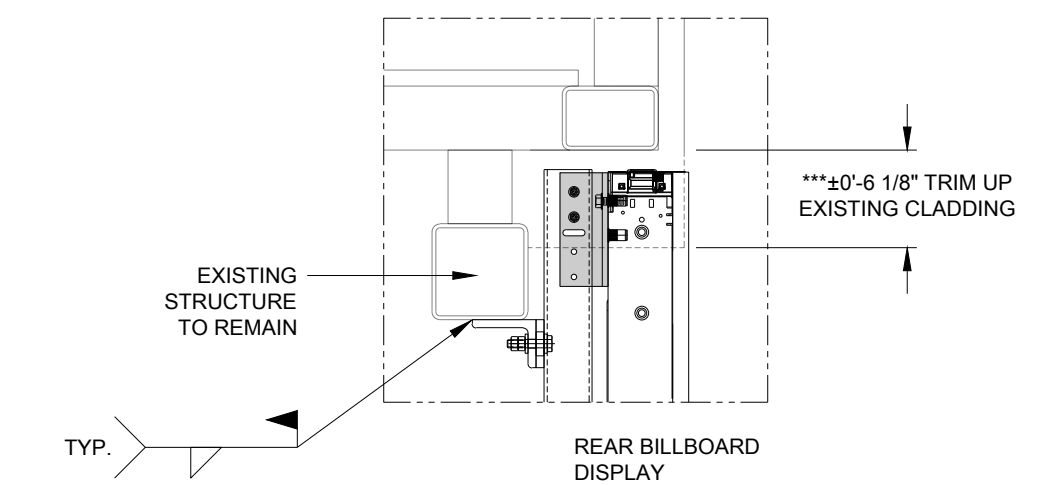
DETAIL D



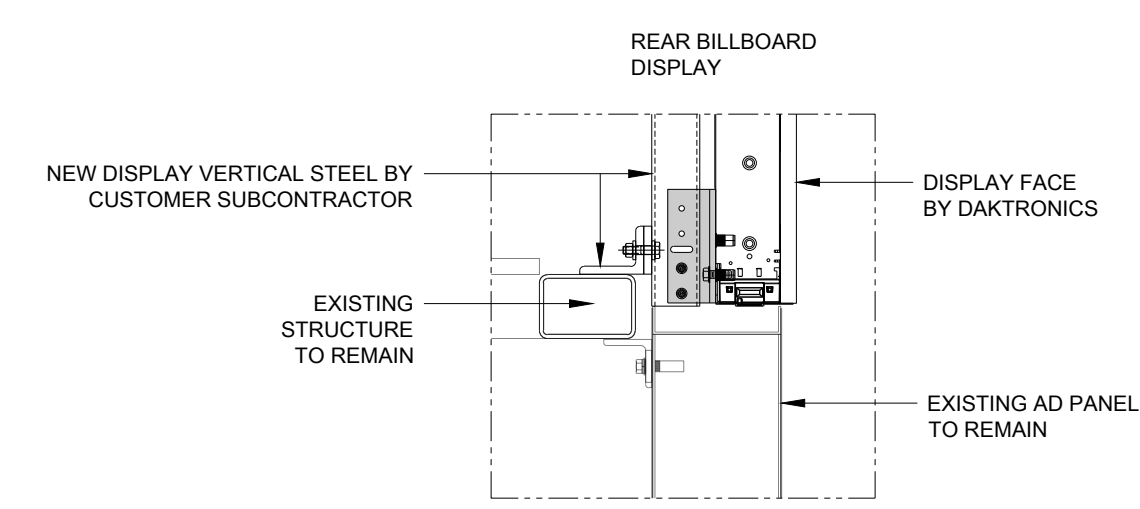
DETAIL E



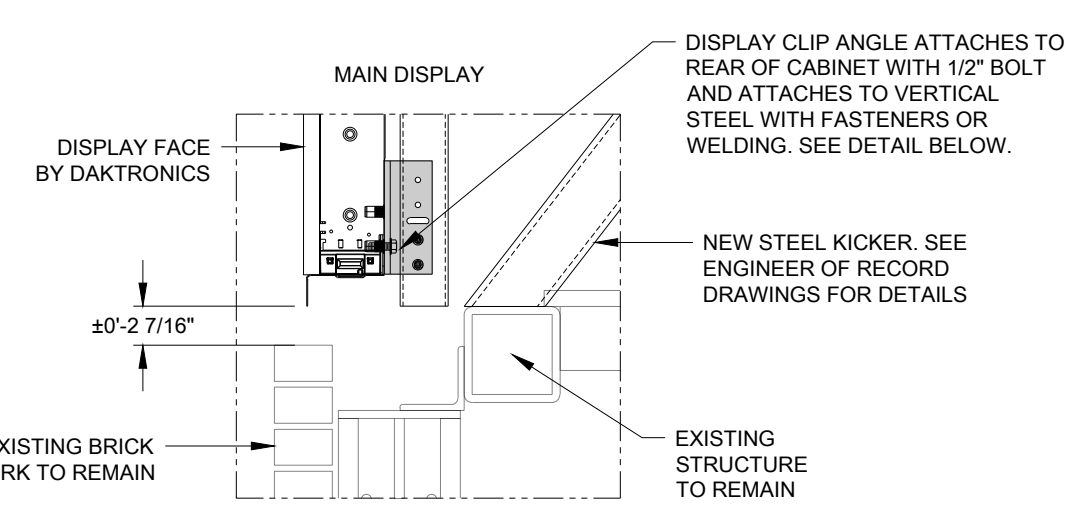
DETAIL F



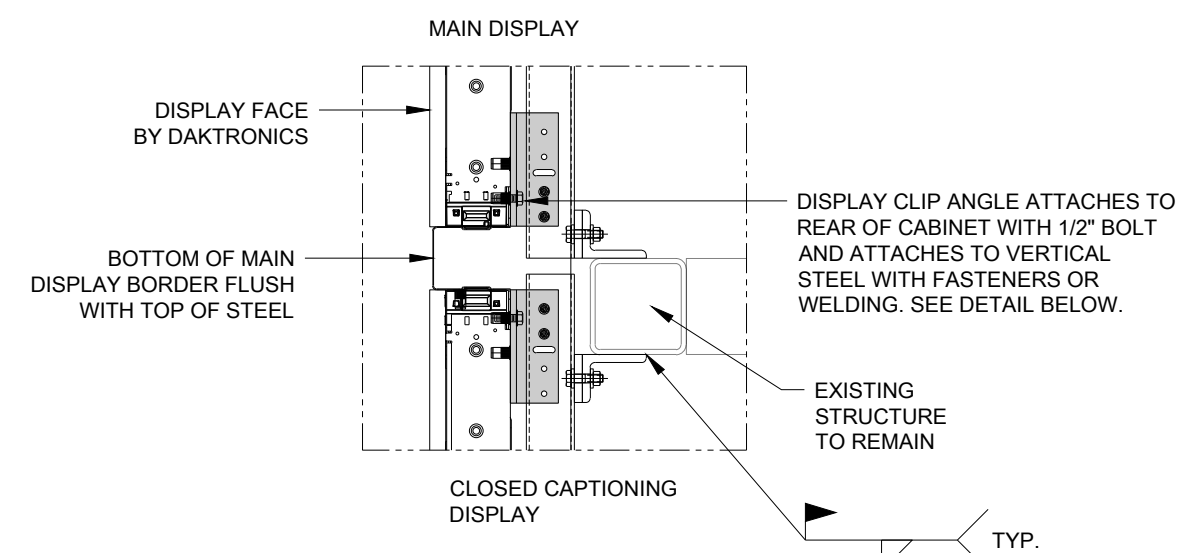
DETAIL G



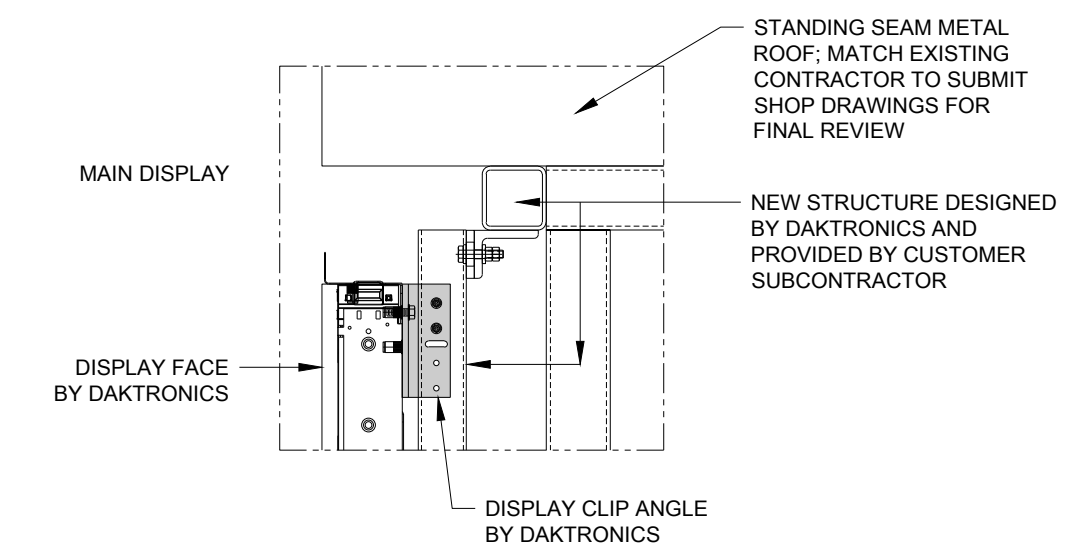
DETAIL H



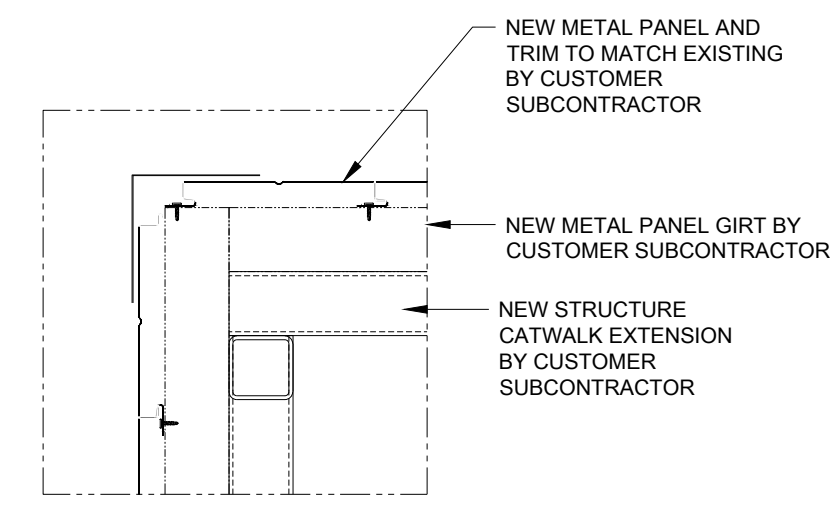
DETAIL I



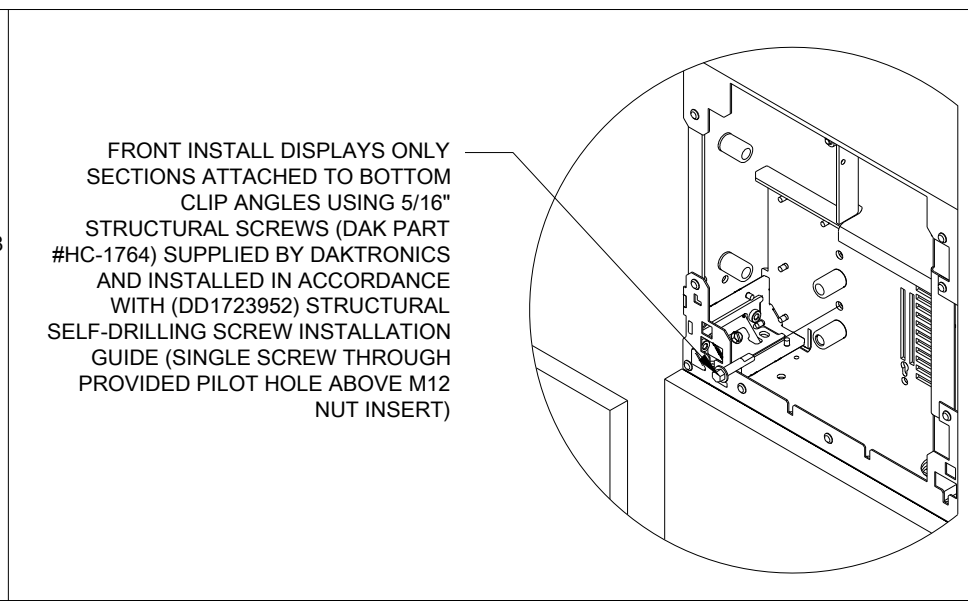
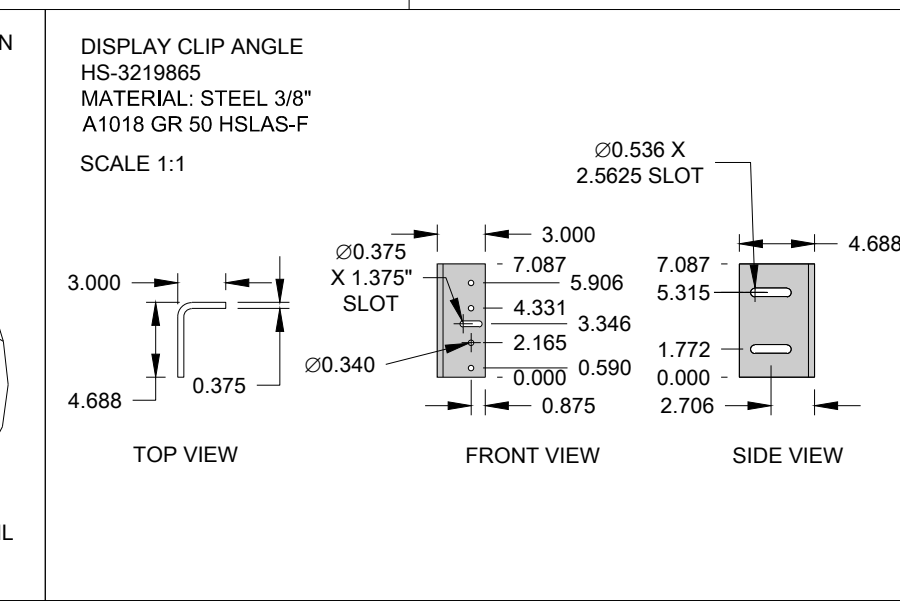
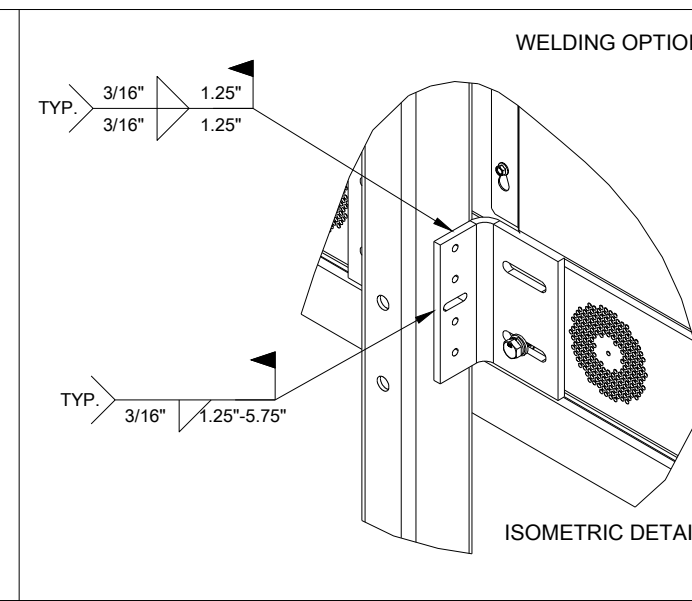
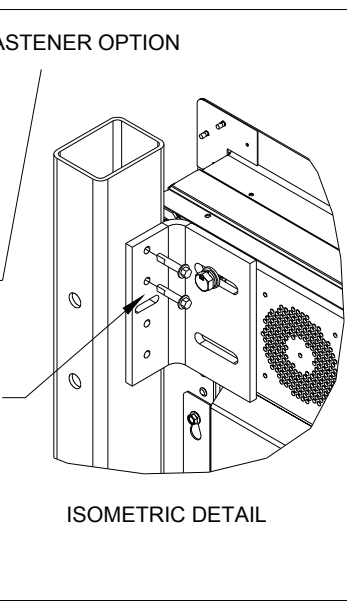
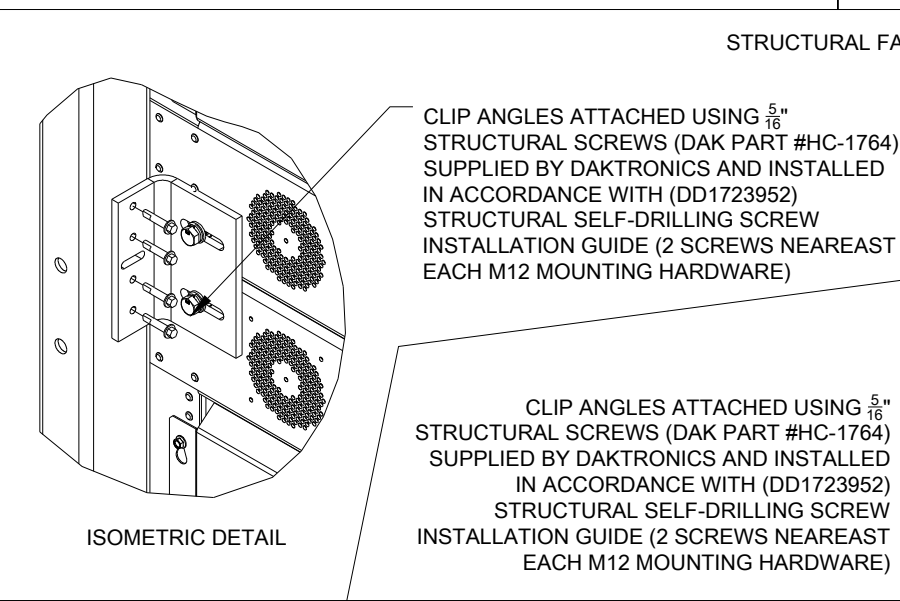
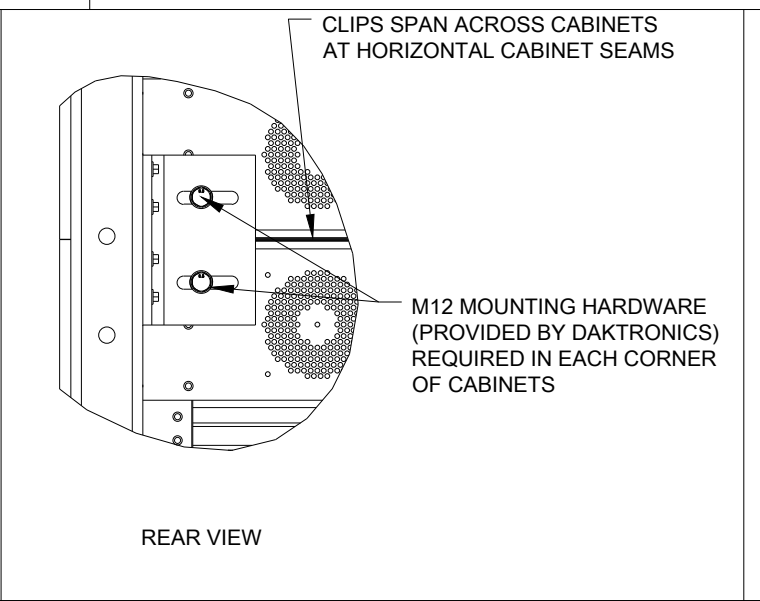
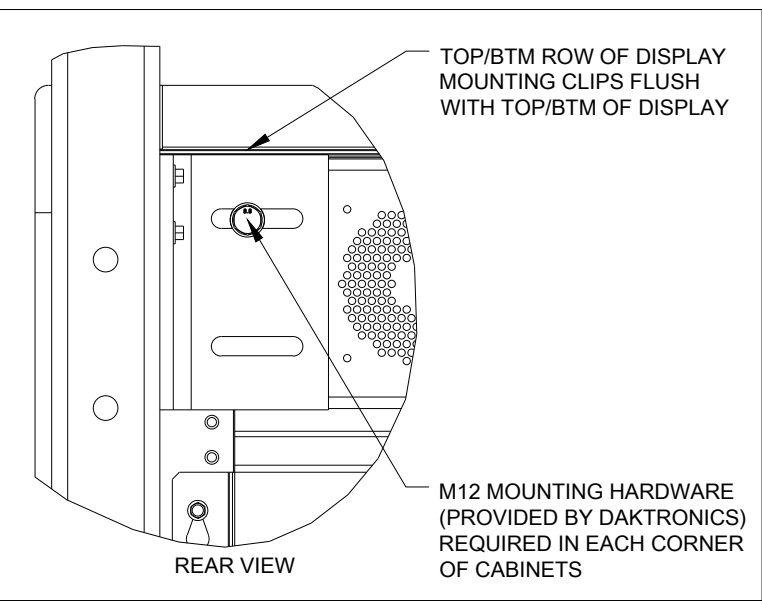
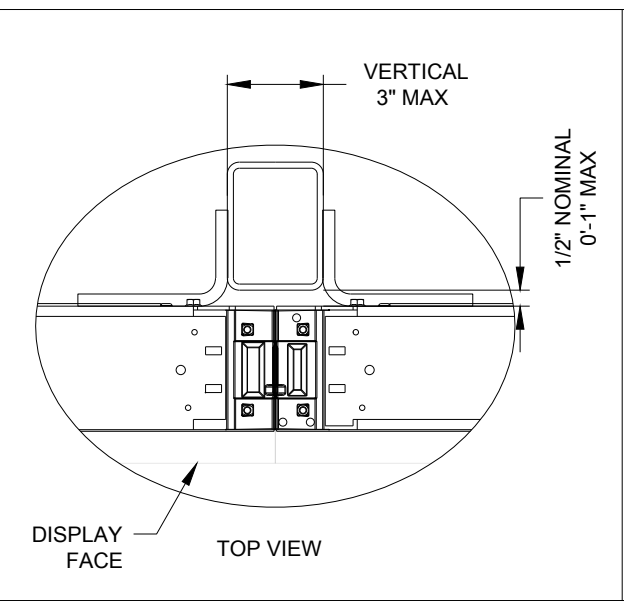
DETAIL J



DETAIL K



*DETAIL SHOWN FOR CONCEPT ONLY. REFER TO MANUFACTURER'S SPECIFICATION, DETAILS AND INSTALLATION REQUIREMENTS.



REV 02	DATE: 26MAR24	REVISIONS MADE PER CUSTOMER COMMENTS AND EOR REVIEW	BY: JAL
REV 01	DATE: 19FEB24	REVISIONS MADE PER CUSTOMER COMMENTS AND EOR REVIEW	BY: JAL

PROJECT: U OF MISSOURI
TITLE: SHOP 306 DISPLAY DETAILS
DATE: 04DEC23
SCALE: 3/16"=1"
DRAWN: JLOVSETH
JOB NO: C32591
SHEET: V306 02

U OF MISSOURI
MEMORIAL STADIUM

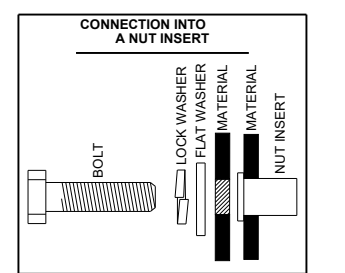
MEMORIAL STADIUM
600 E STADIUM BLVD
COLUMBIA, MO 65201

SUBMITTAL APPROVAL
 APPROVED
 APPROVED AS NOTED
 APPROVED AS NOTED & RESUBMIT



COMPANY: _____
 SIGNED: _____
 TITLE: _____ DATE: _____

ALL MOUNTING HARDWARE SHALL BE PROVIDED BY DAKTRONICS, U.N.O.
 ALL HARDWARE SHALL BE GRADE 5 OR 18-8 SS, U.N.O.



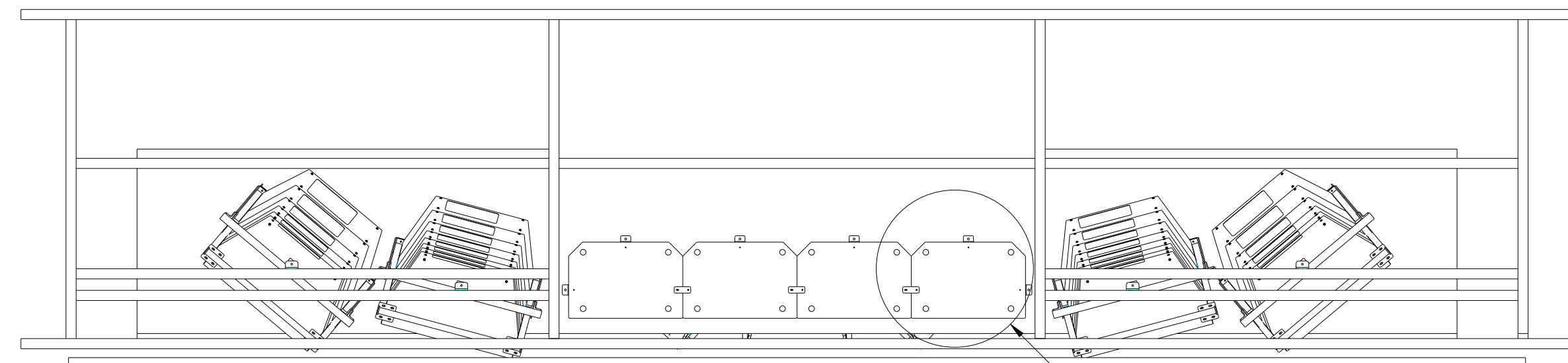
HARDWARE FOR SPEAKER CONNECTIONS:
 BOLT, M10-1.5 X 50MM, 18-8SS - HC-1742
 SPLIT WASHER, M10, 18-8SS - HC-1702
 FLAT WASHER, M10, 18-8SS - HC-1741
 EYE BOLT, M10-1.5 X 35MM, - HC-1759
 HARDWARE FOR MTG BRACKET CONNECTIONS:
 J-BOLT, 1/2"-13, GR5, ZINC - HC-1593
 FLAT WASHER, 1/2", ZINC - HC-1675
 NYLOCK NUT, 1/2"-13, GR5, ZINC - HC-1570

SPEAKER LIFTING NOTE TO INSTALLER:
 M10 EYE BOLTS ARE PROVIDED FOR SPEAKER LIFTING AFTER SPEAKERS ARE POSITIONED IN PLACE ENSURE EYE BOLTS ARE REMOVED AND ORIGINAL MANUFACTURER'S HARDWARE IS INSTALLED. SEALANT SHALL BE USED ON THREADS TO ENSURE WATER-TIGHT CONNECTION.

SPEAKER INSTALL PLACEMENT NOTE:
 EXACT PLACEMENT OF SPEAKERS WITHIN CABINET IS NOT CRITICAL. POSITION AS SHOWN AND SHIFT SPEAKER ASSEMBLIES TO ALLOW AS MUCH ROOM FOR ACCESS/SERVICE.

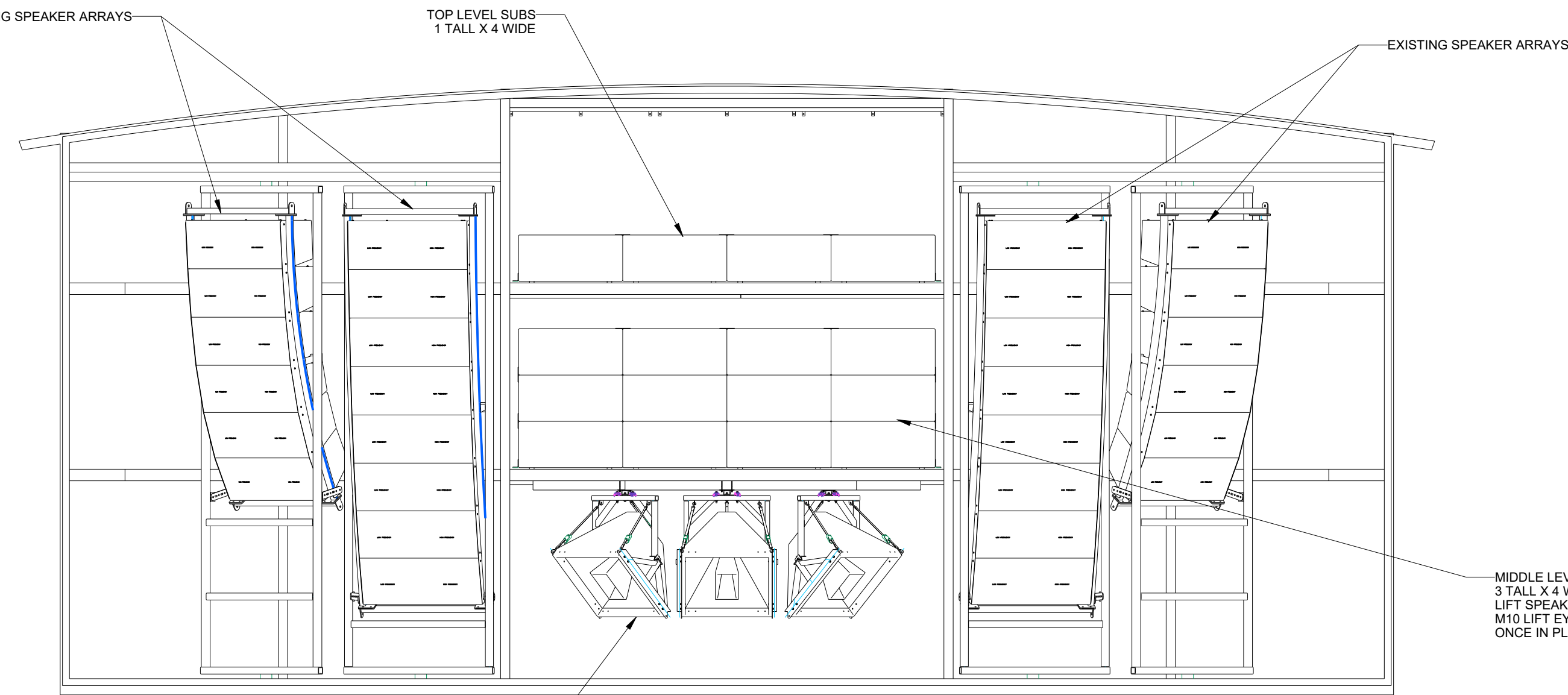
SPEAKERS SHALL BE POSITIONED IN CABINET TO BEST AVOID OBSTRUCTIONS WITH STEEL MEMBERS FOR CLEAR LINE OF SIGHT TO COVERAGE AREAS

FULCRUM SUB218L-WR WEIGHT = 126 LBS EACH
 MIDDLE LEVEL SUPPORTS 12 SUBS (1,512 LBS TOTAL)
 TOP LEVEL SUPPORTS 4 SUBS (504 LBS TOTAL)



TOP VIEW

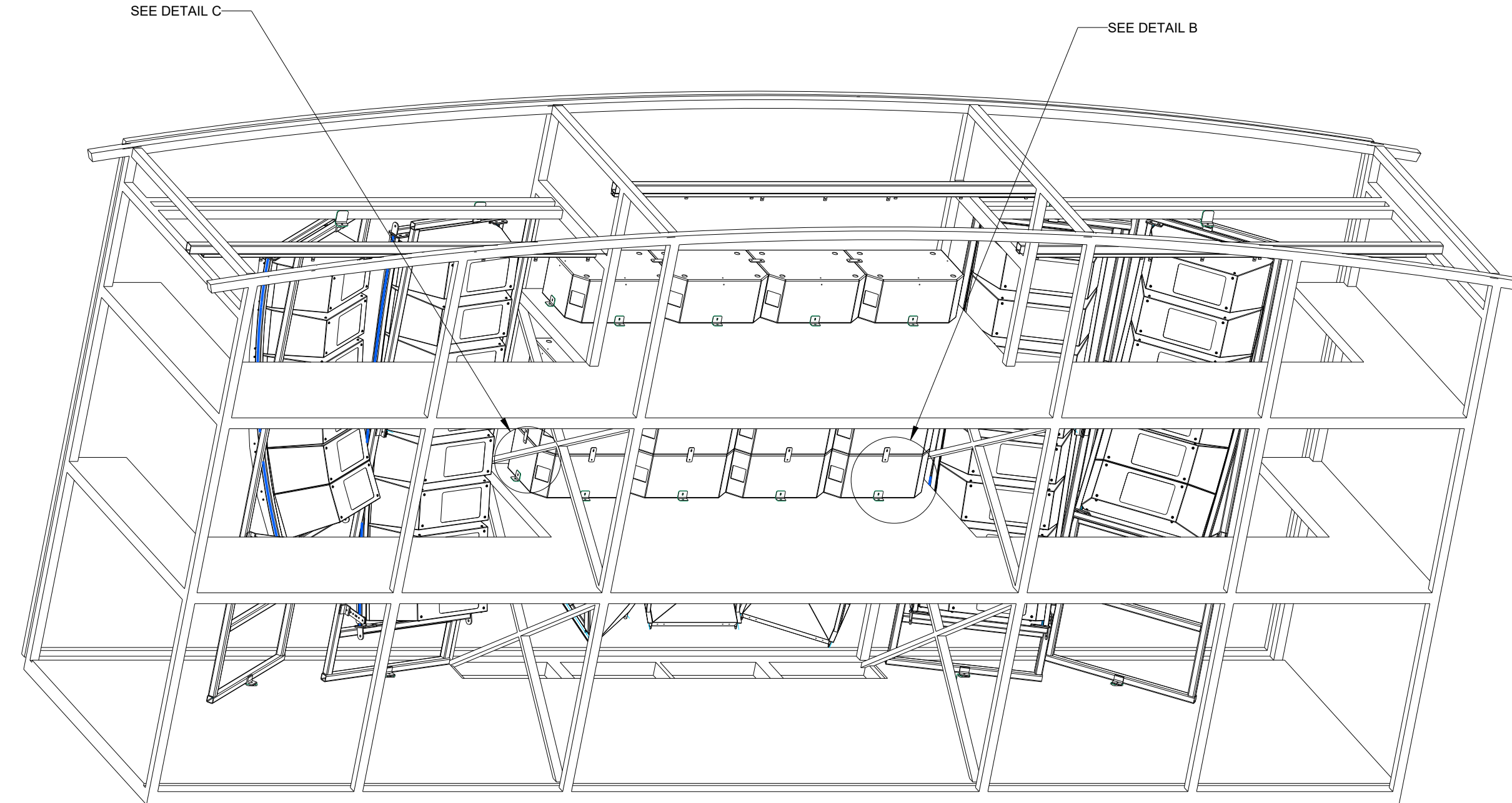
SEE DETAIL A



FRONT VIEW
SCALE 1/50

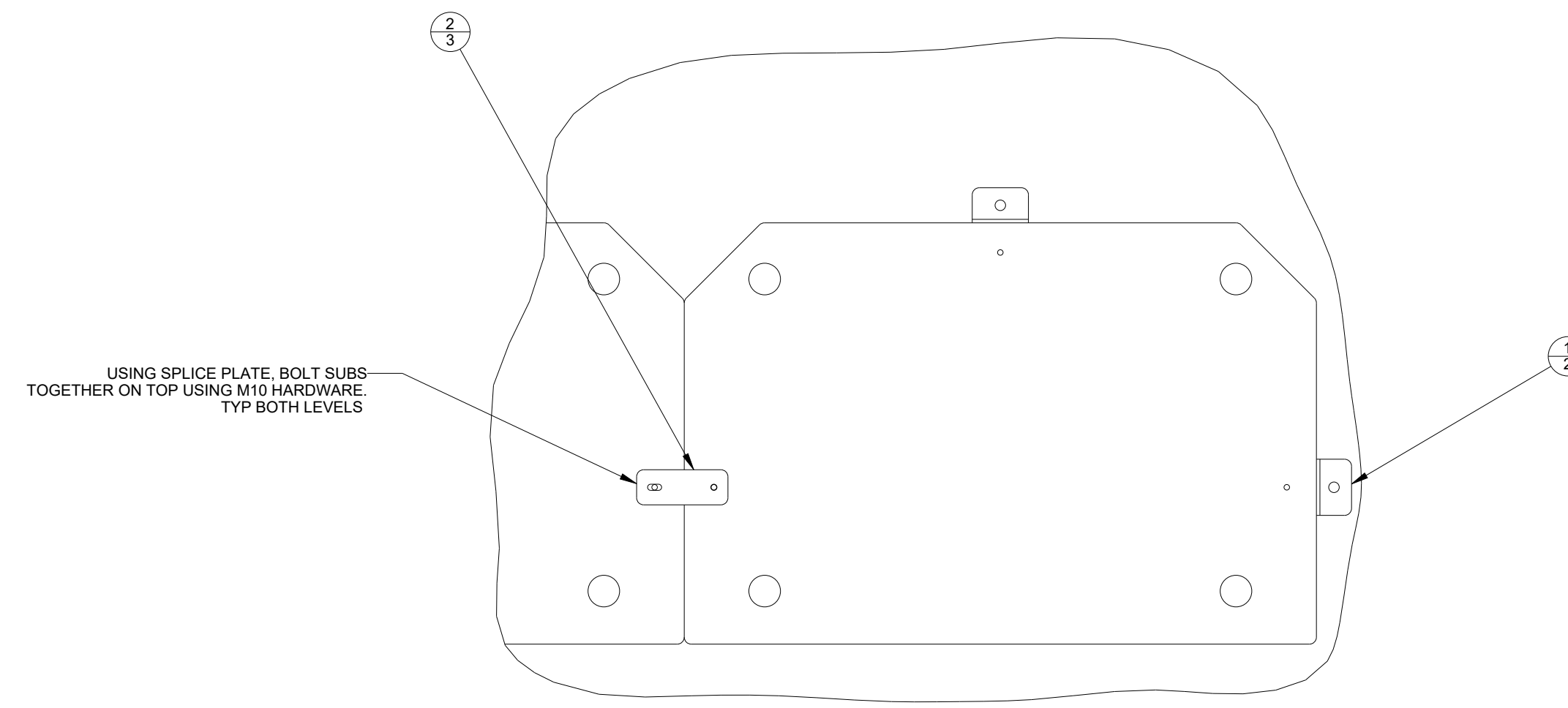
EXISTING LOUD SPEAKERS
TYP @3

MIDDLE LEVEL STACK OF SUBS
3 TALL X 4 WIDE
LIFT SPEAKERS IN PLACE USING M10 LIFT EYES. REMOVE LIFT EYES ONCE IN PLACE.

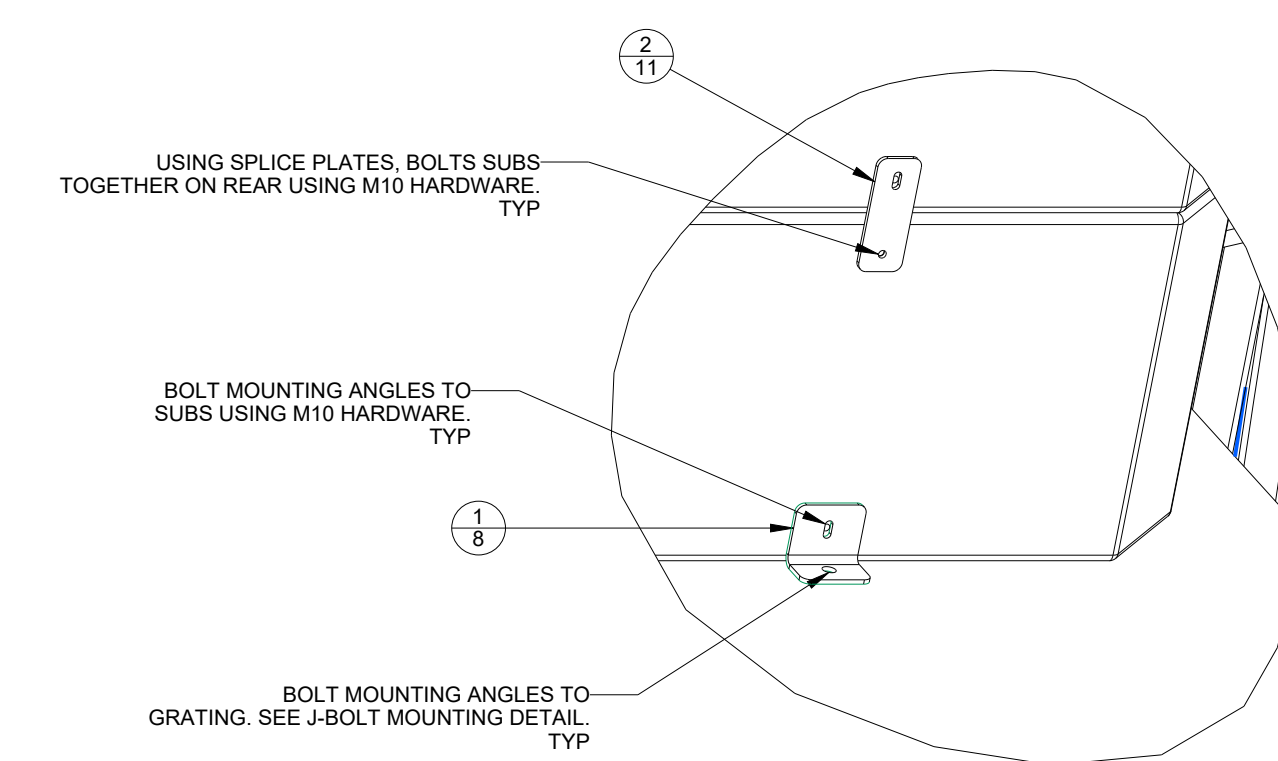


REAR ROTATED VIEW
SCALE 1/50

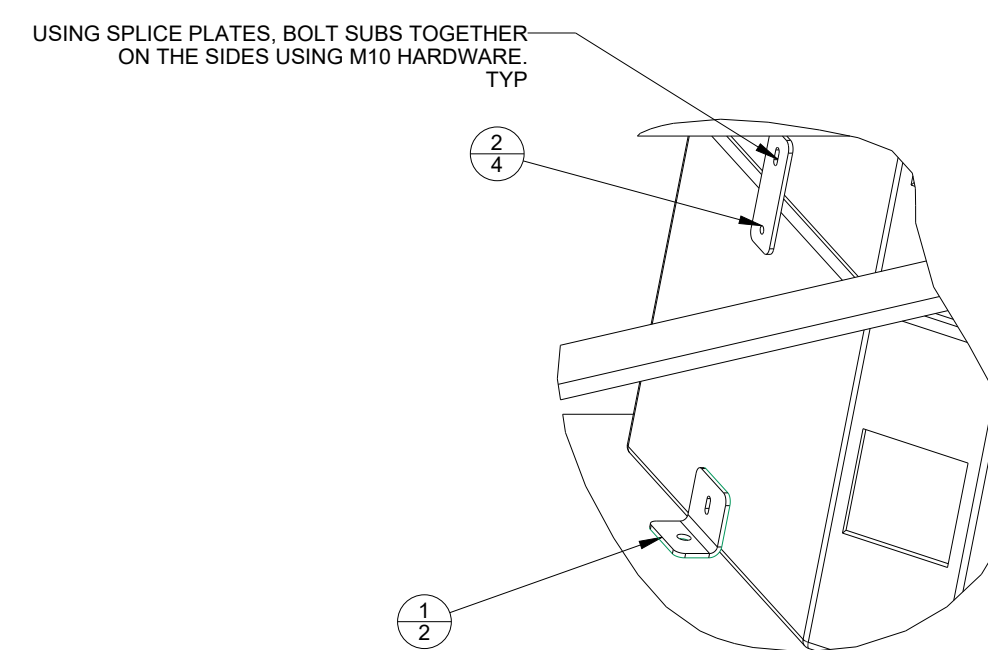
C32591_AUDIO_SYSTEM_FINAL			
INDEX	NAME	QTY	DESCRIPTION
1	5417379-A	12	PARTS, SUBWOOFER BRACKETS, CS218L-WR
2	5417379-B	18	PARTS, SUBWOOFER BRACKETS, CS218L-WR



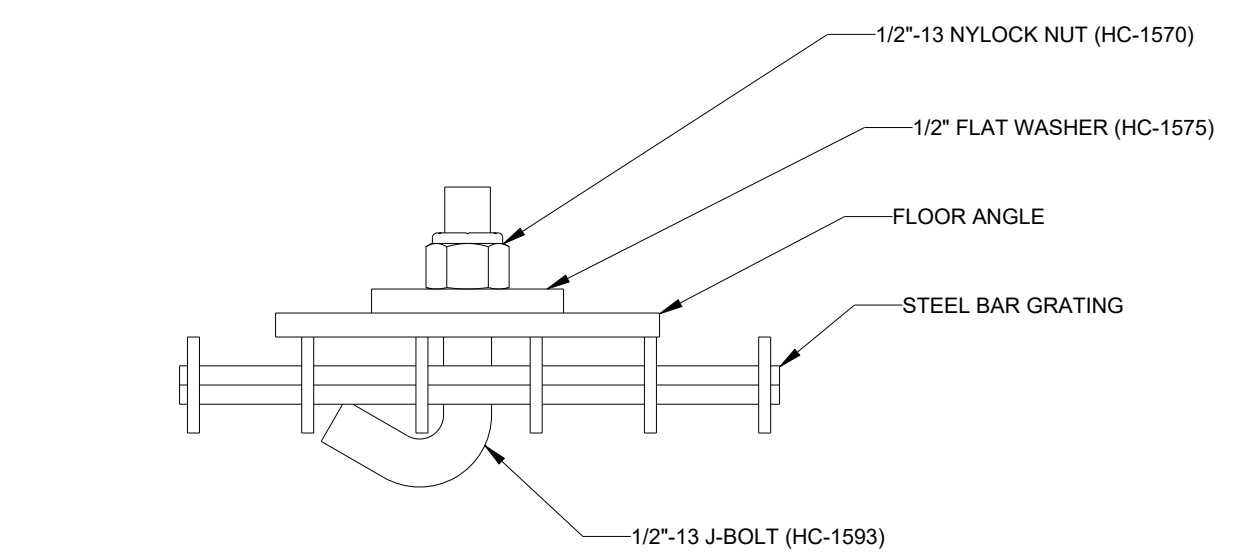
DETAIL A
SCALE 1/10



DETAIL B
SCALE 1/10



DETAIL C
SCALE 1/10



TYPICAL J-BOLT GRATING MOUNTING DETAIL
SCALE 1/2

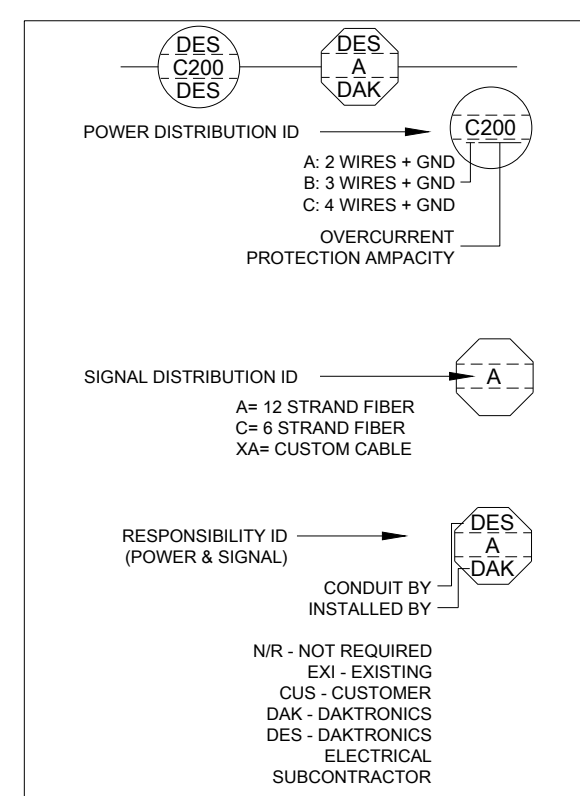
REV	DATE	DESCRIPTION	BY

AUDIO SYSTEM

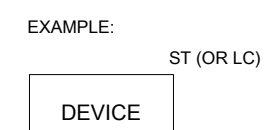
SHEET NO.	DRAWING NO.	TITLE
500	5423824	AUDIO, ELECTRICAL NOTES AND INDEX - 500
501	5423825	AUDIO, RISER PLAN VIEW - 501
502	5423826	AUDIO, AMP/SPEAKER SCHEMATIC - 502
503	5423827	AUDIO, CONTROL SCHEMATIC - 503
504	5423828	AUDIO, RACK ELEVATIONS - 504

CABLE LABEL NOMENCLATURE	
LAYOUT: FXYZZ	
F	IDENTIFIES IF CABLE IS FIELD INSTALLED OR INSTALLED IN RACK
F	CABLE IS FIELD INSTALLED
	BLANK IF THE CABLE IS IN THE RACK
X	IDENTIFIES WHAT IS ON THE CABLE
A	AUDIO CABLING
C	COMMUNICATION CABLING (INTERCOM)
D	DATA CABLE
P	POWER CABLE
V	VIDEO CABLING
Y	IDENTIFIES THE SHEET THE CABLE IS ON
	LAST NUMBER OF SHEET IS USED
Z	IDENTIFIES THE CABLE NUMBER
	START AT 01 AND GOES IN ORDER

SIGNAL DISTRIBUTION SYSTEM LEGEND							
ID TAG	CABLE TYPE	SIZE (O.D.)	DAKTRONICS PART NUMBER	CONDUIT PROVIDED BY & INSTALLED BY	PROVIDED BY	CABLE INSTALLED BY	TERMINATED BY
A	12 STRAND, MM 50um DX FIBER	0.23"	W-1480	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
B	NOT USED			SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
C	6 STRAND, MM 50um DX FIBER	0.20"	W-1489	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
D	6 STRAND, SM DX FIBER	0.25"	W-2515	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
E	4 STRAND, MM 50um DX FIBER	0.18"	W-2121	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
F	4 STRAND, MM 50um BX FIBER	0.31"	W-1494	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
G	2 STRAND, MM 50um DX FIBER	0.17"	W-2120	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
H	6 STRAND, MM 62.5um DX FIBER	0.22"	W-1458	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
J	6 PAIR, 22 AWG WISHELD	0.362"	W-1245	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
K	6 PAIR, 22 AWG PLENUM	0.30"	W-2035	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
L	2 PAIR, 22 AWG WISHELD	0.168"	W-1234	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
M	2 PAIR, 22 AWG PLENUM	0.14"	W-2034	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
N	NOT USED			SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
P	NOT USED			SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
R	2 PAIR, 18 AWG WISHELD	0.38"	W-1852	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
S	4 PAIR, 24 AWG CAT5E	0.31"	W-1384	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
T	4 PAIR, 24 AWG CAT5 SHIELDED	0.38"	W-418221	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
U	1 PAIR, 22 AWG WISHELD	0.138"	W-1077	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AA-Z	AUDIO W OR VR CABLES		W OR VR	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AA	AUDIO, 1 PAIR, 22 AWG	0.170"	W-1615	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AB	AUDIO, 2 PAIR, 22 AWG	0.220"	W-1614	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AC	1 PAIR, 10 AWG SPEAKER WIRE	0.275"	W-3201038	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AD	1 PAIR, 12 AWG SPEAKER WIRE	0.297"	W-1561	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AE	1 PAIR, 12 AWG OUTDOOR SPEAKER	0.352"	W-1745	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AF	1 PAIR, 14 AWG SPEAKER PLENUM	0.218"	W-3517620	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AG	1 PAIR, 16 AWG SPEAKER PLENUM	0.188"	W-355949	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AH	20' NLI/BLUNT SPEAKER JUMPER	N/A	W-355945	N/A	DAKTRONICS	SEE TAG	DAKTRONICS
AJ	20' NLI/BLUNT SPEAKER JUMPER	N/A	W-355947	N/A	DAKTRONICS	SEE TAG	DAKTRONICS
AK	20' NLI/BLUNT SPEAKER JUMPER	N/A	W-355949	N/A	DAKTRONICS	SEE TAG	DAKTRONICS
AL	ROSE CONICAL, AMFM ANTENNA	0.270"	W-2459	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AM	50' PRETERM SHURE ANTENNA	N/A	W-2476	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AN	20' PRETERM ADA ANTENNA	N/A	INC W/ A-2016	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AO	ROBU 50 OHM COAX (IP 101) TERM	2.85"	W-1370	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AP	2 PAIR, 13 AWG SPEAKER WIRE	0.42"	W-382519	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AQ	4 PAIR, 13 AWG SPEAKER WIRE	0.60"	W-3371482	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AR	SOFT CABLE IN 500HD CABINET	-	W-2317	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AS	60FT CABLE IN 1000HD CABINET	-	W-510349	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AT	70FT CABLE IN 2050HD CABINET	-	W-5228213	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
AU	50FT L.O.L.C. DUPLEX FIBER	-	W-1865	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
XA-Z	OTHER W OR VR CABLES		W OR VR	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS



NOTE:
ALL FIBER TERMINATIONS TO BE DESIGNATED BY TEXT IN UPPER RIGHT CORNER OF DEVICES. DAKTRONICS USES ST AND LC TERMINATIONS THROUGHOUT THE SYSTEM. DESIGNATION IS FOR ALL TERMINATIONS LOCATED AT EACH DEVICE.



AUDIO EQUIPMENT ABBREVIATION DESCRIPTION	
ADA	AUDIO DISTRIBUTION AMPLIFIER
ACM	AUDIO CONTROL MODULE
ADC	ANALOG TO DIGITAL CONVERTER
AIP	AUDIO INPUT PANEL
AMP	AMPLIFIER
ANT	ANTENNA & ANTENNA EQUIPMENT
APP	AUDIO PATCH PANEL
ASE	AUDIO SOURCE EQUIPMENT
ASP	AUDIO SOURCE PROCESSOR
ATL	AUDIO TIE LINE (DRY)
ATT	ATTENUATOR
BOP	BREAK OUT PANEL
BKP	ANALOG BACKUP SWITCH
CPU	COMPUTER
DSP	DIGITAL SIGNAL PROCESSOR
FAL	FIRE ALARM INTERFACE
FCC	FIBER COMMUNICATION CONVERTER
FPP	FIBER OPTIC PATCH PANEL
KEY	KEYBOARD
KVE	KVM EXTENDER
KVM	KVM SWITCH
KVR	KVM RECEIVER
IMS	INTERCOM MASTER STATION
JBT	JUNCTION BOX TERMINATION POINT
MCV	MEDIA CONVERTER
MIC	MICROPHONE PRODUCT
MIX	AUDIO MIXER
MON	MONITOR
NET	NETWORK ROUTER/SWITCHER/HUB
POW	POWER SUPPLY / POWER STRIP
RLY	RELAY
RPC	REMOTE POWER CONTACTOR
RPS	REMOTE POWER SEQUENCER
SCV	SIGNAL CONVERTER
SPK	SPEAKER
SPT	SPLITTER
SUM	SUMMING AMPLIFIER
SWT	CONTACT SWITCH
TBL	TERMINAL BLOCK
TEL	TELEPHONE INTERFACE EQUIPMENT
THE	THERMOSTAT
TMP	TEMPERATURE SENSOR
TRX	TRANSFORMER
ULA	UNIVERSAL LINE AMPLIFIER
UPS	UNINTERRUPTIBLE POWER SUPPLY
WMS	WIRELESS INTERCOM MASTER STATION
WBS	WIRELESS INTERCOM BASE STATION
WRX	WIRELESS RECEIVER EQUIPMENT
WTX	WIRELESS TRANSMITTER EQUIPMENT

GENERAL NOTES:
THE FOLLOWING 500-549 SERIES ARE NOT SCALED DRAWINGS AND SHOULD BE USED FOR POWER AND SIGNAL REQUIREMENTS ONLY. REFER TO SHEETS 500-599 FOR PHYSICAL SPEAKER/MOUNTING DETAILS.

IT IS THE RESPONSIBILITY OF THE ELECTRICAL INSTALLATION CONTRACTOR TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON-SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.

ALL SIGNAL CABLE RUNS SHOULD BE LABELED WITH THEIR ORIGIN AND DESTINATION ON EACH END.
FIBER OPTIC CABLE RUNS MUST BE CONTINUOUS WITH A MINIMUM BEND RADIUS OF 15X O.D. OF THE FIBER CABLE.

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NATIONAL ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

THE OVER CURRENT PROTECTION DEVICE MUST BE MATCHED TO THE FAULT CURRENT THAT IS AVAILABLE IN THE POWER DELIVERY CIRCUIT. TO DETERMINE THE AVAILABLE FAULT CURRENT OF A SITE, AN ON-SITE FAULT CURRENT SURVEY MAY NEED TO BE PERFORMED BY QUALIFIED PERSONNEL. IF THE AVAILABLE FAULT CURRENT IN THE ELECTRICAL SYSTEM EXCEEDS 10,000 AMPS, A DAKTRONICS REPRESENTATIVE SHOULD BE CONTACTED.

DAKTRONICS UTILIZES BOTH STANDARD AND SUPPLEMENTARY CIRCUIT BREAKERS IN THE DISPLAY ASSEMBLY PROCESS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL PRIMARY FEEDER CIRCUIT BREAKERS TO EACH DISPLAY/DISPLAY SECTION ARE UL 489 LISTED.

DAKTRONICS IS NOT RESPONSIBLE FOR THE QUALITY OF THE POWER DELIVERY SYSTEM TO THE DISPLAY SYSTEM.

BECAUSE EACH INSTALLATION IS UNIQUE, DAKTRONICS OFFERS THESE INSTRUCTIONS AS GUIDELINES ONLY. DAKTRONICS, INC. ASSUMES NO LIABILITY IF INSTALLATION STEPS HAVE BEEN OMITTED OR OTHER NECESSARY PROCEDURES ARE NOT INCLUDED IN THIS SYSTEM RISER DIAGRAM.

POWER AND SIGNAL REQUIREMENTS ARE SPECIFIED TO THE EQUIPMENT AND SETUP SHOWN. ANY CHANGES MADE TO EQUIPMENT OR THEIR SETUP SHOULD BE DISCUSSED WITH DAKTRONICS DESIGN PERSONNEL AND WILL REQUIRE AN UPDATED RISER DIAGRAM DRAWING.

THE CONTRACTUAL AGREEMENT WILL DETERMINE THE PARTY OR PARTIES RESPONSIBLE FOR ITEMS LISTED AS FIELD INSTALLED. THIS DRAWING IS NOT INTENDED TO DETERMINE RESPONSIBILITIES AND SHOULD BE USED FOR REFERENCES ONLY.

ACTUAL PLACEMENT OF ELECTRICAL COMPONENTS, SUCH AS PANEL BOARDS, A/C'S, AND SPLICE PANELS, MAY VARY. LOCATION OF SUCH EQUIPMENT TO BE FIELD VERIFIED.

CONTROL ROOM NOTES:
THE CONTROL ROOM(S) ARE TO BE CLIMATE CONTROLLED BY CUSTOMER. NORMAL OPERATING TEMPERATURE SHOULD BE BETWEEN 65 AND 75 DEGREES FAHRENHEIT. NORMAL OPERATING HUMIDITY SHOULD BE LESS THAN 80 PERCENT NON-CONDENSING. STORAGE TEMPERATURE SHOULD BE BETWEEN 40 AND 95 DEGREES FAHRENHEIT. STORAGE HUMIDITY SHOULD BE LESS THAN 95 PERCENT NON-CONDENSING.

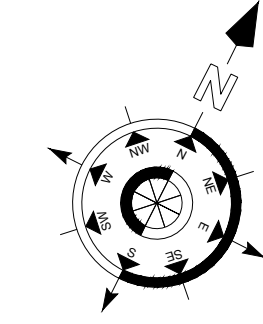
IT IS THE RESPONSIBILITY OF THE CUSTOMER THAT ALL CONTROL ROOM POWER IS FROM CLEAN DEDICATED CIRCUITS. EACH RACK REQUIRES TWO 20 AMP CIRCUITS TERMINATED WITH NEMA 5-20R RECEPTACLES. ONE 20 AMP CIRCUIT PREFERABLY FROM THE SAME POWER FEED IS REQUIRED FOR EACH DESK WHERE WORKSTATIONS ARE TO BE PLACED.

IT IS THE RESPONSIBILITY OF THE ELECTRICAL INSTALLATION CONTRACTOR TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON-SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.

DAKTRONICS IS NOT RESPONSIBLE FOR THE QUALITY OF THE POWER DELIVERY SYSTEM TO THE CONTROL SYSTEM.

BECAUSE EACH INSTALLATION IS UNIQUE, DAKTRONICS OFFERS THESE INSTRUCTIONS AS GUIDELINES ONLY. DAKTRONICS, INC. ASSUMES NO LIABILITY IF INSTALLATION STEPS HAVE BEEN OMITTED OR OTHER NECESSARY PROCEDURES ARE NOT INCLUDED IN THIS SYSTEM RISER DIAGRAM.

WHEN VIEWING THE RACK FROM THE REAR, ALL THE POWER SHOULD RUN ON THE LEFT AND THE SIGNAL ON THE RIGHT. DO NOT ALLOW THE SIGNAL AND POWER TO RUN PARALLEL WITH ONE ANOTHER.



MEMORIAL STADIUM
600 E STADIUM BLVD
COLUMBIA, MO 65201

SUBMITTAL APPROVAL

APPROVED APPROVED AS NOTED APPROVED AS NOTED & RESUBMIT

COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

NOTES:

THIS IS NOT A SCALED DRAWING AND SHOULD BE USED FOR SIGNAL RUNS ONLY

SEE SHEETS 550-559 FOR EXACT SPEAKER LOCATIONS AND MOUNTING DETAILS

CABLE RUNS ARE TO BE LABELED ON EACH END WITH A CLEARLY IDENTIFIABLE DESIGNATOR FOR EASE OF CONNECTION

LEAVE A MINIMUM OF 10' OF CABLE AT EACH CONNECTION POINT FOR FINAL TERMINATIONS

ALL SPEAKER, AUDIO SIGNAL, AND ANTENNAE RUNS ORIGINATE AT CONTROL/AMP RACK LOCATION UNLESS SHOWN OTHERWISE

CABLING BETWEEN THE SPEAKERS AND AJBT'S WILL BE MADE USING WHIPS ATTACHED TO THE SPEAKERS

CABLE TERMINATIONS AT THE AJBT'S WILL BE MADE TO TERMINAL BLOCKS

SPEAKER CABLE TERMINATIONS IN THE RACK WILL BE MADE DIRECTLY TO AMPLIFIER OUTPUT TERMINALS

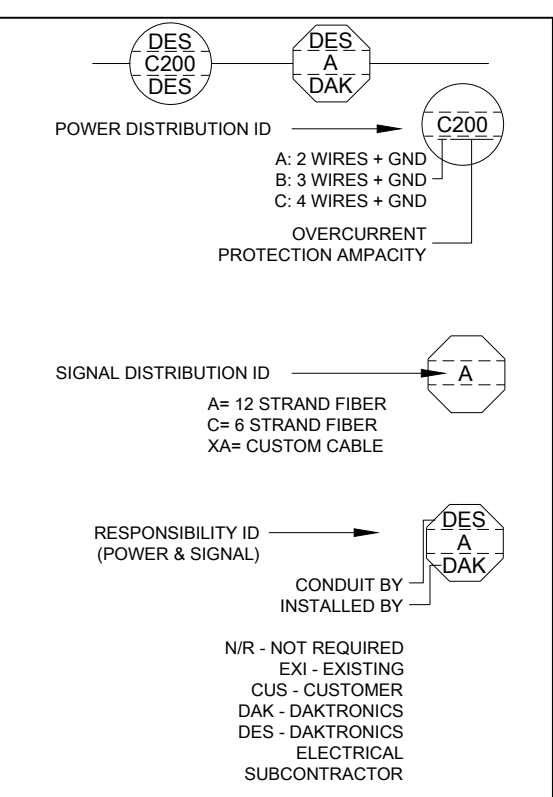
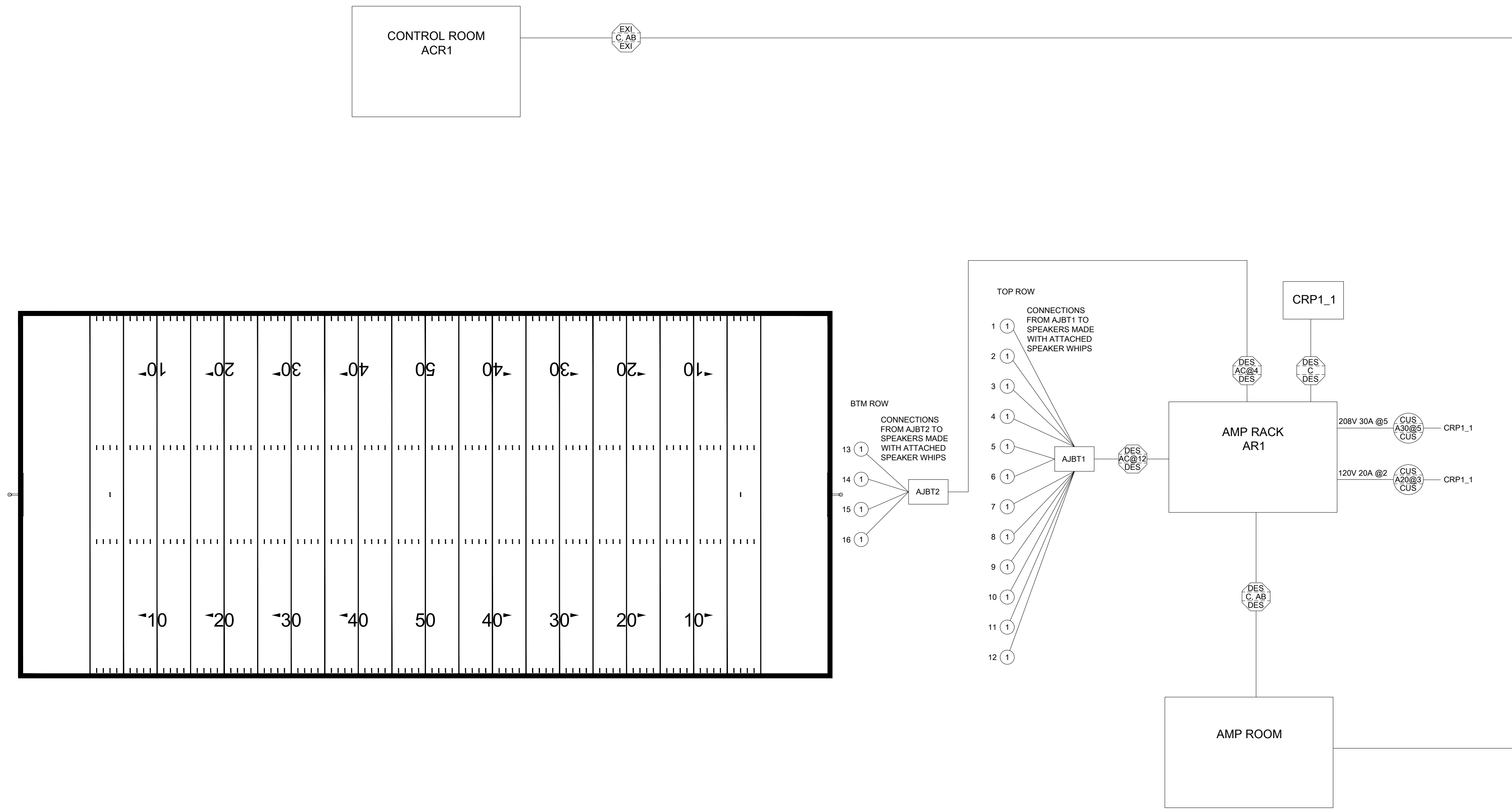
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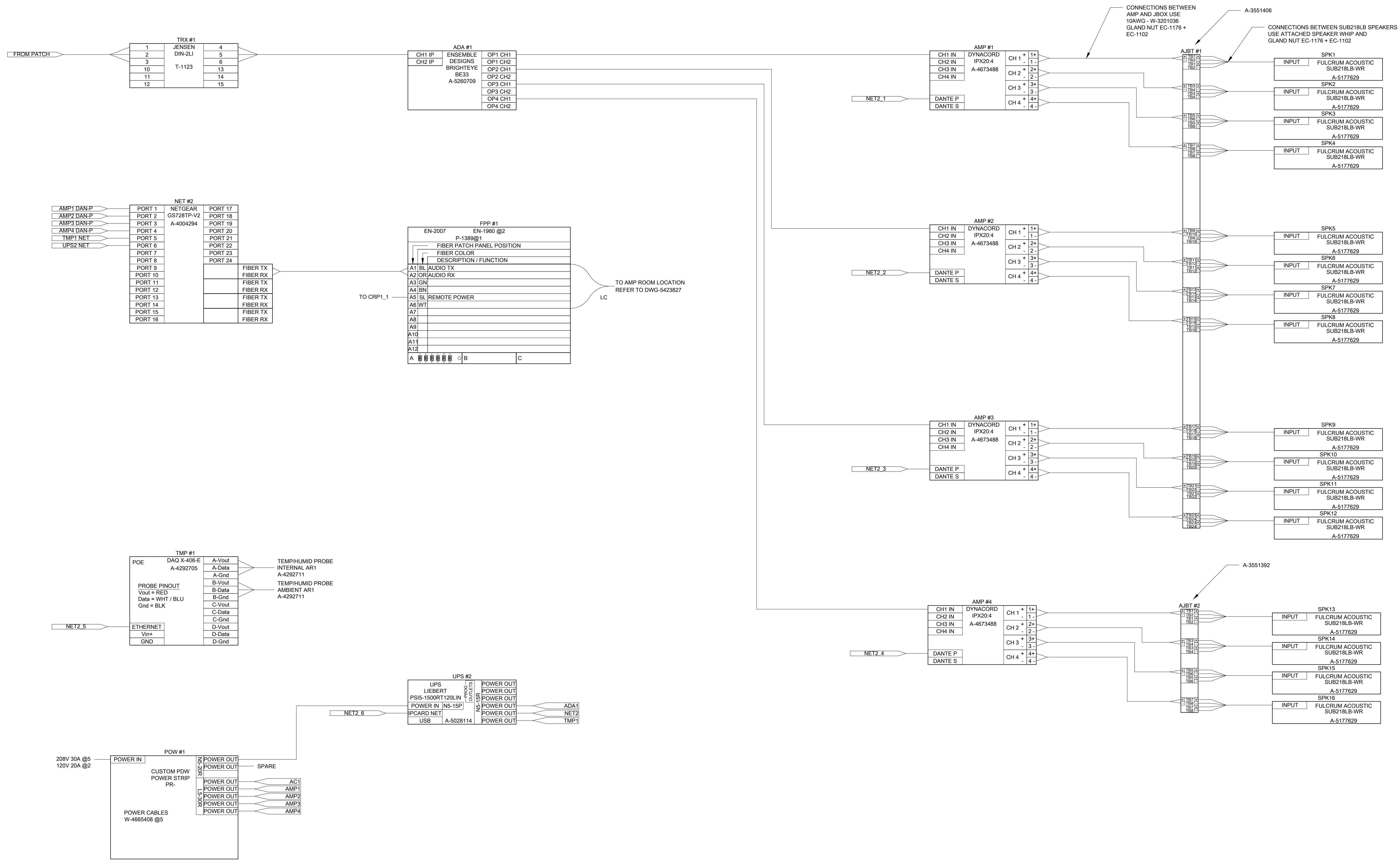
W-3201036
WHITE +
BLACK -

USE MANUFACTURERS COLOR GUIDE ON SPEAKER WHIPS FOR CONNECTIONS IN AJBT'S

COMPONENT IDENTIFICATION LEGEND				
ID TAG	COMPONENT DESCRIPTION	MANUFACTURER'S PART NUMBER	COMPONENT PROVIDED BY	COMPONENT INSTALLED BY
ACR1	AUDIO CONTROL RACK	02-32591 2110CC	DAKTRONICS	DAK. ELECT. SUB.
AR1	AMP RACK 1; OUTDOOR ENCLOSURE	02-32591-2110RA	DAKTRONICS	DAK. ELECT. SUB.
AJBT1	24 POSITION JUNCTION BOX	A-3551406	DAKTRONICS	DAK. ELECT. SUB.
AJBT2	12 POSITION JUNCTION BOX	A-3551392	DAKTRONICS	DAK. ELECT. SUB.
CRP1_1	AMP RACK REMOTE POWER PANEL	TBD	DAKTRONICS	DAK. ELECT. SUB.
SPK	SEE SPEAKER TABLE	SEE SPEAKER TABLE	DAKTRONICS	DAK. ELECT. SUB.

SPEAKER IDENTIFICATION LEGEND				
SPEAKER TYPE	DAKTRONIC'S PART NUMBER	MANUFACTURER'S PART NUMBER	SPEAKER COUNT	TAP SETTINGS
1	A-5177629	SUB218LB-WR	16	N/A





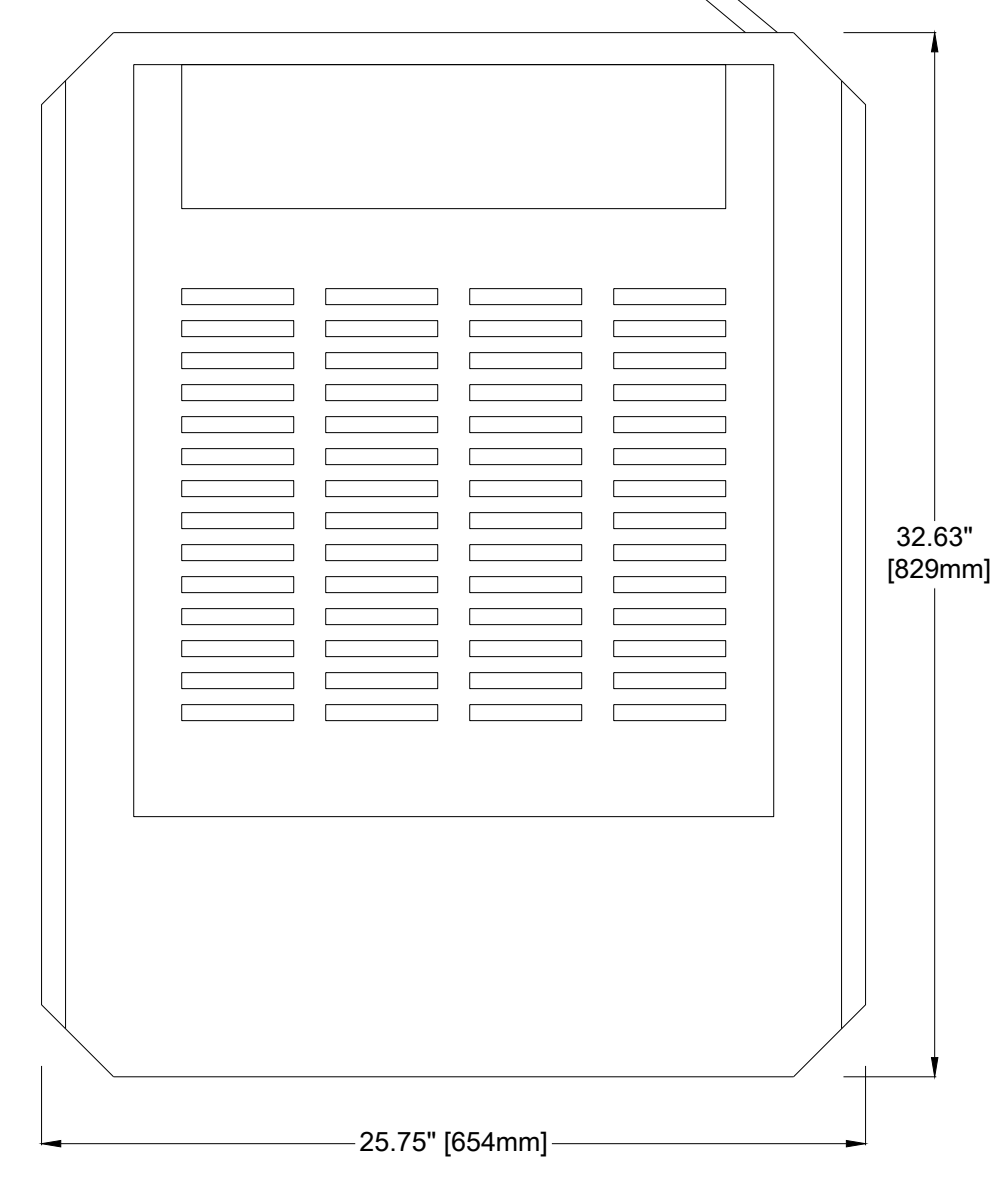
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COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

TOP VIEW

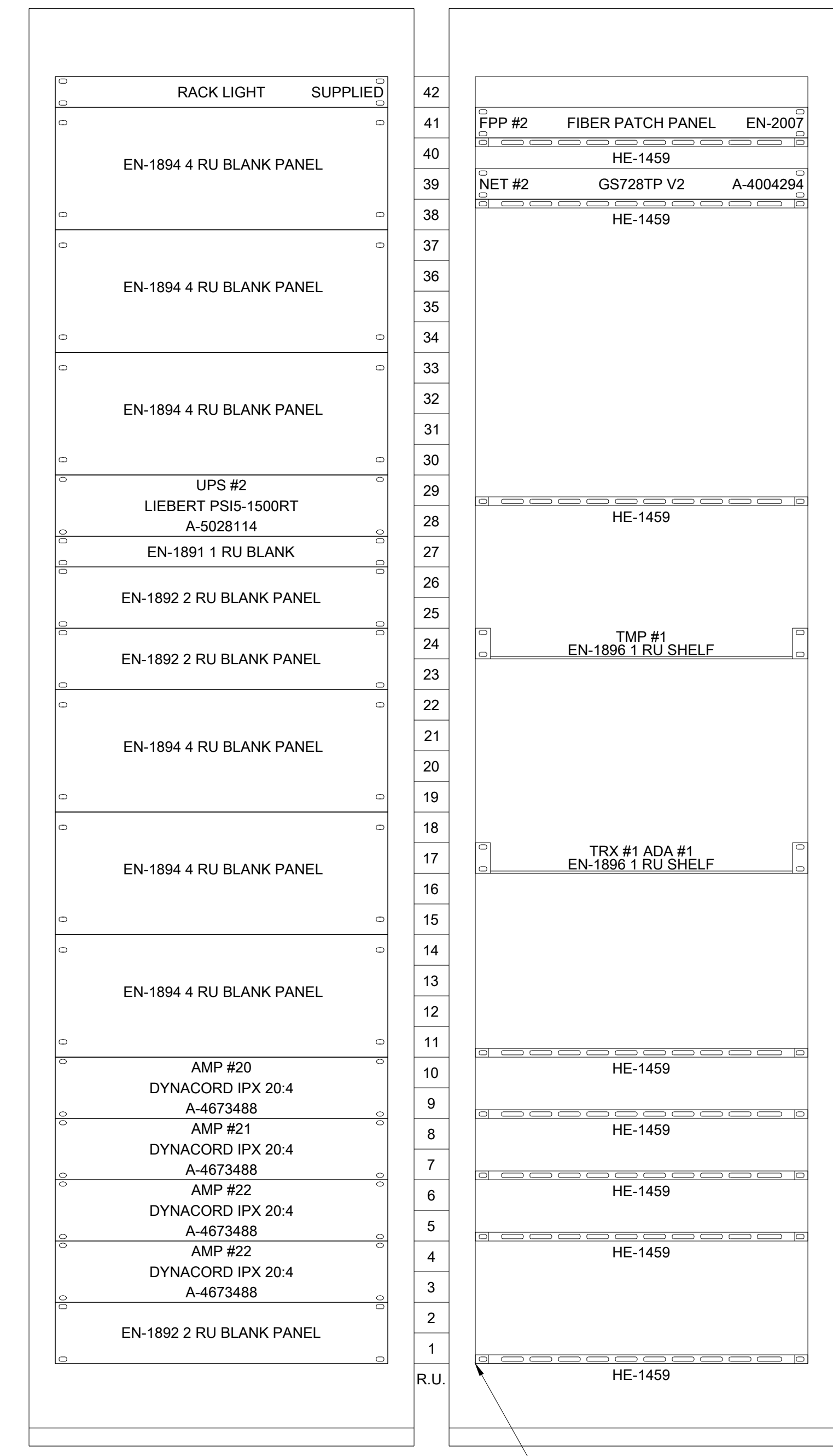


AR1

OZ-32591-2110RA

FRONT VIEW

REAR VIEW



42 RU
POW1 CUSTOM POWER STRIP MOUNTED IN REAR

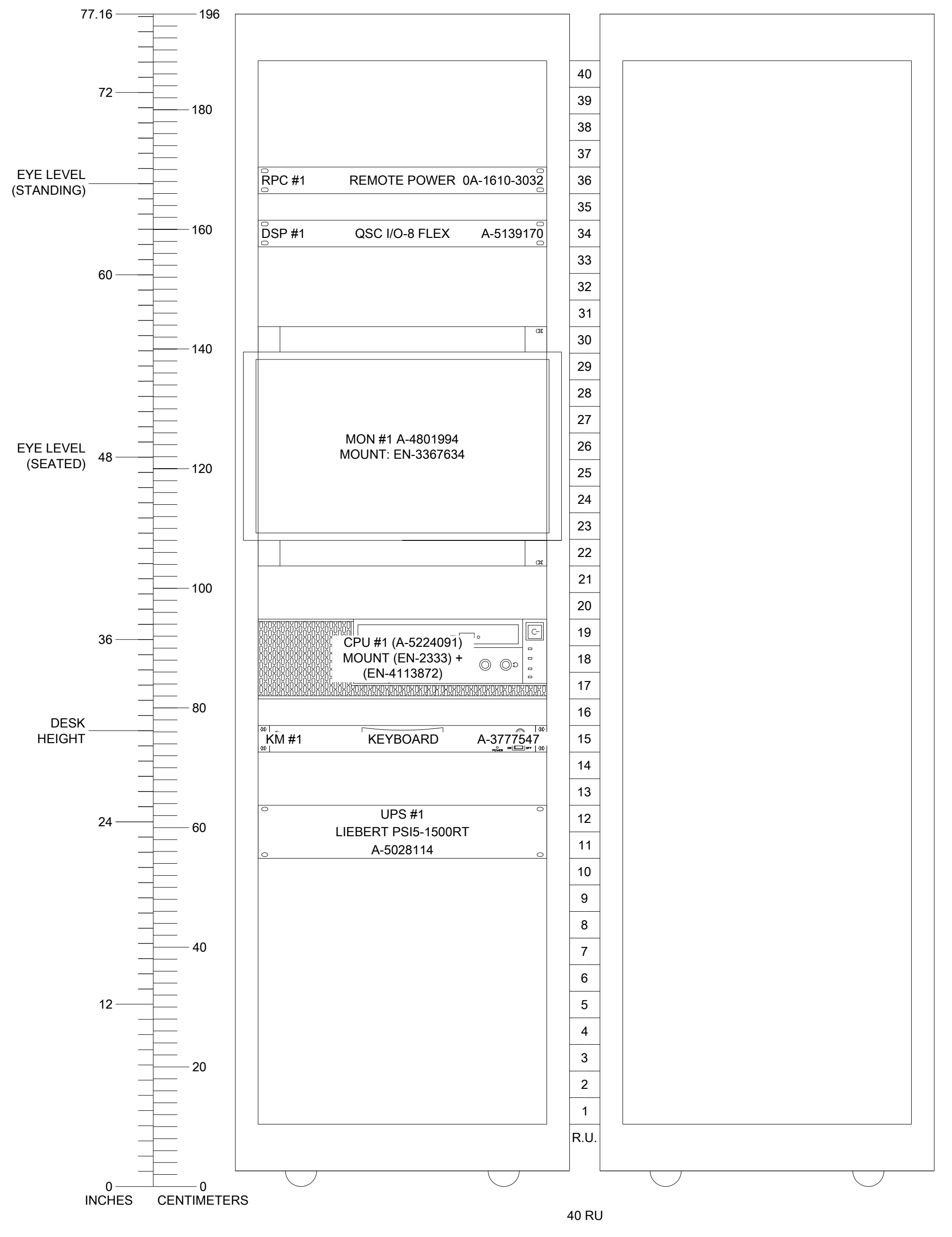
	HEAT LOAD (BTU/HR)	POWER LOAD (WATTS)	WEIGHT (LBS)	WEIGHT (KGS)
RACK TOTAL	13868	4064	1235	561

ACR1

OZ-23591-2110CC

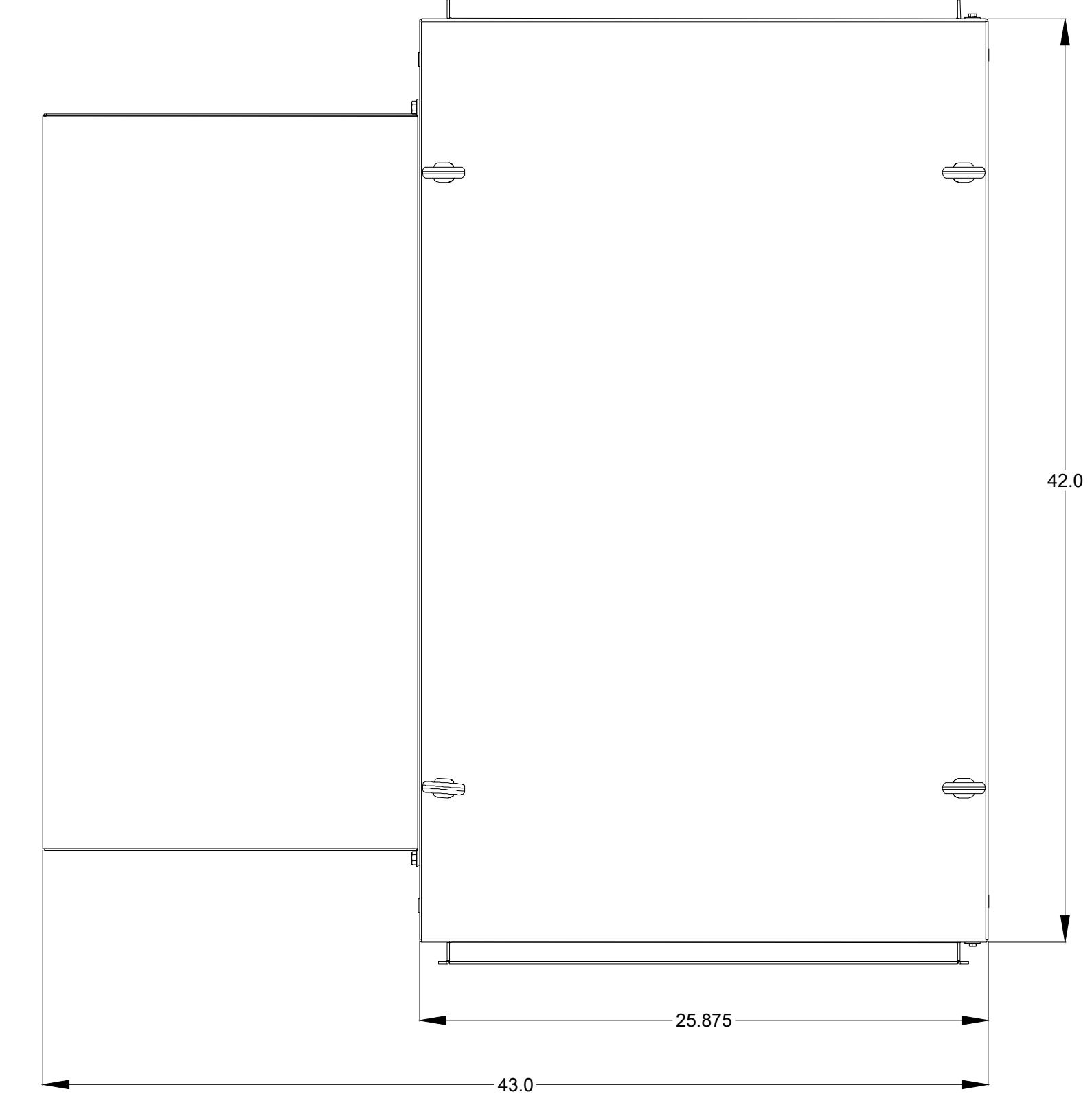
FRONT VIEW

REAR VIEW



1 - 20 AMP 120 VAC CIRCUIT
ITEMS INSTALLED IN EXISTING CONTROL RACK ONSITE
EQUIPMENT SHOWN FOR RU REQUIREMENTS ONLY
LOCATION OF EQUIPMENT SUBJECT TO ONSITE ADJUSTMENTS

AR1
(TOP VIEW)



GENERAL ABBREVIATIONS

-	NOT APPLICABLE	L	LENGTH, LEFT
@	AT	L/R	LEFT/RIGHT
3DC	3D CONTROLLER	LAN	LOCAL AREA NETWORK
		LB	POUNDS
A/C	AIR CONDITIONING	LF	LINEAR FEET
ABV	ABOVE	LTG	LIGHTING
AC	ALTERNATING CURRENT	MAX	MAXIMUM
ADA	AMERICANS WITH DISABILITIES ACT	MDF	MAIN DISTRIBUTION FRAME
ADJ	ADJUSTABLE	MECH	MECHANICAL
AFC	ABOVE FINISHED CEILING	MIN	MINIMUM
AFG	ABOVE FINISHED FLOOR	MMFO	MULTIMODE FIBER OPTIC CABLE
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
AHJ	AUTHORITY HAVING JURISDICTION	NA	NOT APPLICABLE
ALT	ALTERNATE	NC	NORMALLY CLOSED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NEC	NATIONAL ELECTRICAL CODE
ARCH	ARCHITECT, ARCHITECTURAL	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS		
AUX	AUXILIARY	NIC	NETWORK
AWG	AMERICAN WIRE GAUGE	NO	NOT IN CONTRACT
		NTS	NORMALLY OPEN
			NOT TO SCALE
BFC	BELOW FINISHED CEILING	OC	ON CENTER
BFF	BELOW FINISHED FLOOR	OD	OUTSIDE DIAMETER
BLDG	BUILDING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BOH	BACK OF HOUSE	OFE	OWNER FURNISHED EQUIPMENT
BOP	BOTTOM OF PIPE	OFI	OWNER FURNISHED OWNER INSTALLED
BOS	BOTTOM OF STRUCTURE		
C	CONDUIT	P	PRIMARY
CAT	CATEGORY CABLE	P/O	PART OF
CKT	CIRCUIT	PC	PERSONAL COMPUTER
CL	CENTER LINE	PDU	POWER DISTRIBUTION UNIT
CLG	CEILING	PGM	PROGRAM
CMU	CONCRETE MASONRY UNIT	PH	PHASE
COL	COLUMN	PNL	PANEL
CTRL	CONTROL	PROCC	PROCESSOR
		PRH	PROJECT RECEPTACLE HEIGHT
D	DEPTH, DEEP	PRX	PROXIMITY SENSOR
DC	DIRECT CURRENT	PS	POWER SUPPLY
DC	DOWNSTAGE CENTER	PSF	POUNDS PER SQUARE FOOT
DEG	DEGREES	PSH	PROJECT SWITCH HEIGHT
DEMO	DEMOLITION	PSI	POUNDS PER SQUARE INCH
DFP	DIRECTOR'S FLOOR POCKET	PT	PASS THROUGH
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DIM	DIMENSION	PWR	POWER
DIV	DIVISION		
DS	DOWNSTAGE	QTY	QUANTITY
DSL	DOWNSTAGE LEFT		
DSR	DOWNSTAGE RIGHT	R	RIGHT
DWG	DRAWING	RCP	REFLECTED CEILING PLAN
		REF	REFERENCE, REFER
EA	EACH	REINF	REINFORCING
EC	ELECTRICAL CONTRACTOR	REQD	REQUIRED
EL	ELEVATION	REV	REVISION, REVISE
ELEC	ELECTRICAL	RM	ROOM
ENCL	ENCLOSURE	RO	ROUGH OPENING
EQ	EQUAL	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT		
ER	EQUIPMENT RACK	S	SURFACE, SECONDARY
ESW	ETHERNET SWITCH	SQFT	SQUARE FEET
EXIST	EXISTING	SIM	SIMILAR
		SL	STAGE LEFT
FA	FIRE ALARM	SMFO	SINGLE MODE FIBER OPTIC CABLE
FB	FLOOR BOX	SMP	STAGE MANAGER POSITION
FLEX	FLEXIBLE	SPEC	SPECIFICATION
FLR	FLOOR	SQ	SQUARE
FO	FINISHED OPENING	SR	STAGE RIGHT
FOH	FRONT OF HOUSE	STD	STANDARD
FPB	FIBER OPTIC PATCHBAY	STP	SHIELDED TWISTED PAIR
FFM	FEET PER MINUTE	SURF	SURFACE
FT	FOOT, FEET	SUSP	SUSPEND
FV	FIELD VERIFY		
		TBD	TO BE DETERMINED
GND	GROUND	THRU	THROUGH
GA	GAUGE	TYP	TYPICAL
		UC	UPSTAGE CENTER
H	HEIGHT	UL	UNDERWRITERS LABORATORIES, INC.
HL	HOUSE LEFT	UNO	UNLESS NOTED OTHERWISE
HMP	HOUSE MANAGER POSITION	UPS	UNINTERRUPTIBLE POWER SUPPLY
HOR	HORIZONTAL	US	UPSTAGE
HP	HORSEPOWER	USL	UPSTAGE LEFT
HR	HOUSE RIGHT	USR	UPSTAGE RIGHT
HZ	HERTZ	USB	UNIVERSAL SERIAL BUS
		UTP	UNSHIELDED TWISTED PAIR
I/O	INPUT/OUTPUT		
ID	INSIDE DIAMETER	V	VOLT
IDF	INTERMEDIATE DISTRIBUTION FRAME	VA	VOLT-AMPERE
IG	ISOLATED GROUND	VERT	VERTICAL
ISO	ISOLATED	VIF	VERIFY IN FIELD
JB	JUNCTION BOX	W/	WITH
JBD	JUNCTION BOX - DATA	W/O	WITHOUT
JP	JUNCTION BOX - SYSTEM POWER	WP	WEATHERPROOF
		WT	WEIGHT
KPD	KEYPAD		
KW	KILOWATT		

ROUGH-IN BOX SCHEDULE

TYPE 1	RECESSED: 1-GANG BOX, 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL. MASONRY: 1-GANG BOX, 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL. SURFACE MOUNTED: 1-GANG DIE CAST BOX, 2 5/8" DEEP WITH THREADED OUTLETS.
TYPE 2	RECESSED: 4 11/16" SQUARE BOX, 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL. MASONRY: 2-GANG BOX, 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL. SURFACE MOUNTED: 2-GANG DIE CAST BOX, 2 5/8" DEEP WITH THREADED OUTLETS.
TYPE 3	RECESSED: 3-GANG BOX, 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL. MASONRY: 3-GANG BOX, 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL. SURFACE MOUNTED: 3-GANG DIE CAST BOX, 2 5/8" DEEP WITH THREADED OUTLETS.
TYPE 4	RECESSED: 4-GANG BOX, 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL. MASONRY: 4-GANG BOX, 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL. SURFACE MOUNTED: 4-GANG DIE CAST BOX, 2 5/8" DEEP WITH THREADED OUTLETS.
TYPE 5	RECESSED: 5" SQUARE BOX, 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.
TYPE 12	RECESSED: 4 11/16" SQUARE BOX, 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL. MASONRY: 1-GANG BOX, 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL. SURFACE MOUNTED: 1-GANG DIE CAST BOX, 2 5/8" DEEP WITH THREADED OUTLETS.
TYPE A	JUNCTION BOX (HxWxD) WITH SCREW COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS. PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.
TYPE B	JUNCTION BOX (HxWxD) WITH HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS. PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.
TYPE C	JUNCTION BOX (HxWxD) WITH LOCKING HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS. PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

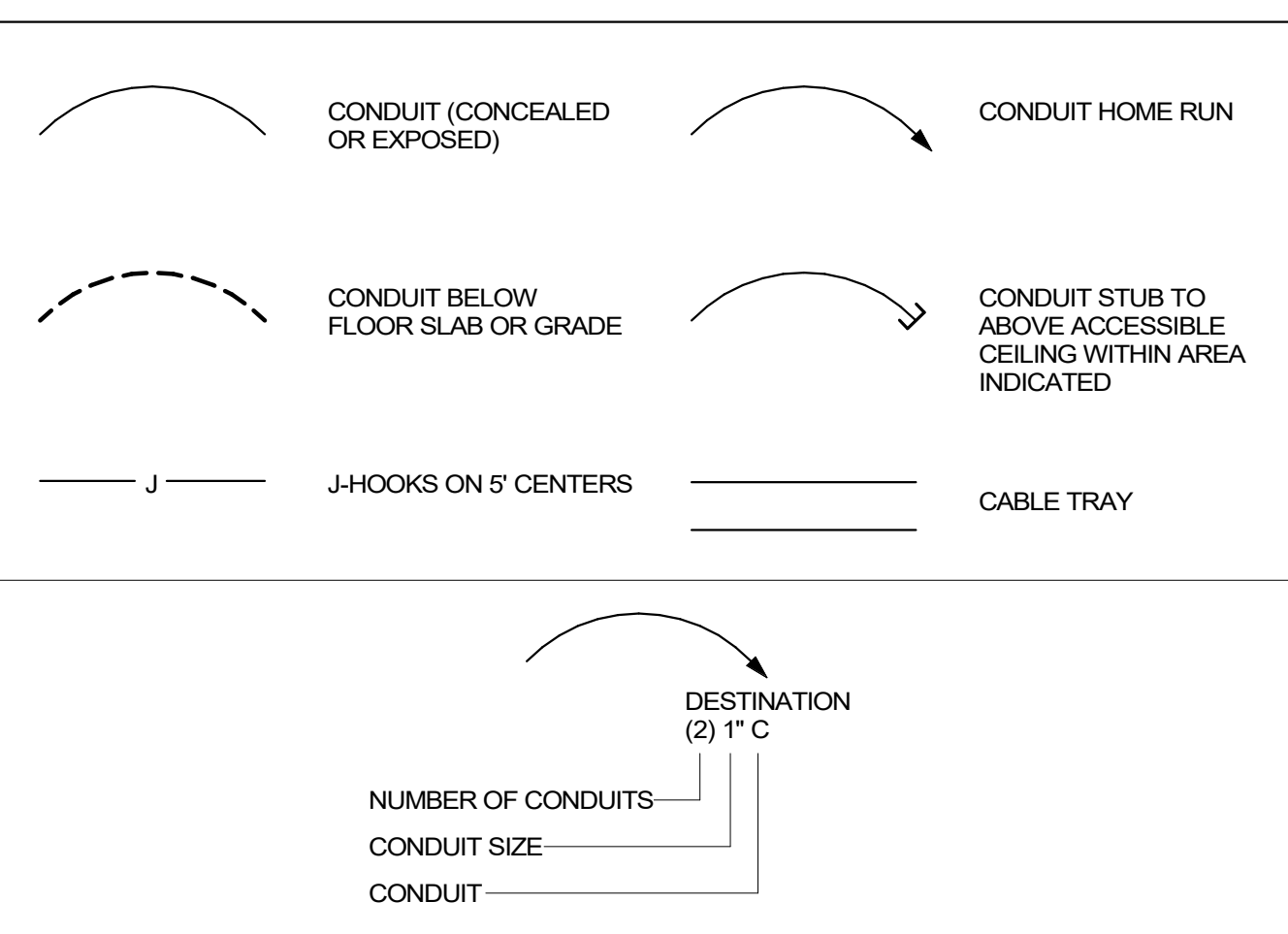
CONDUIT AND PATHWAY NOTES

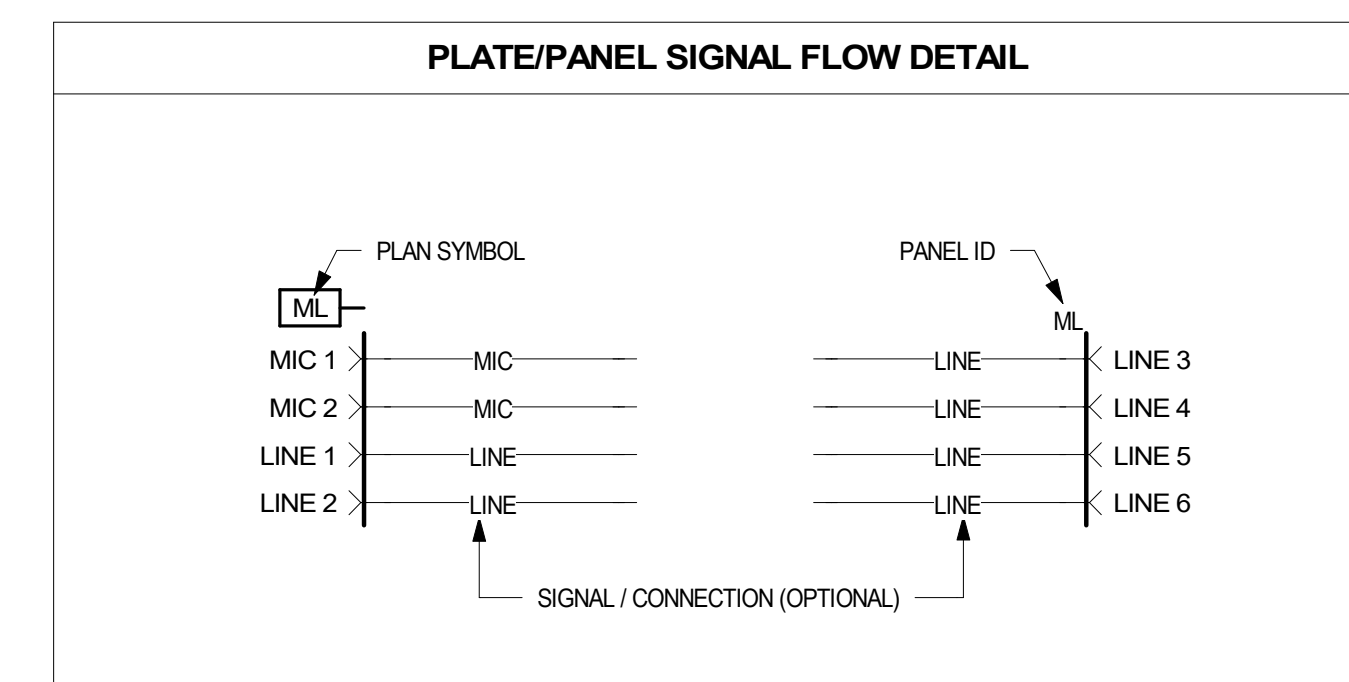
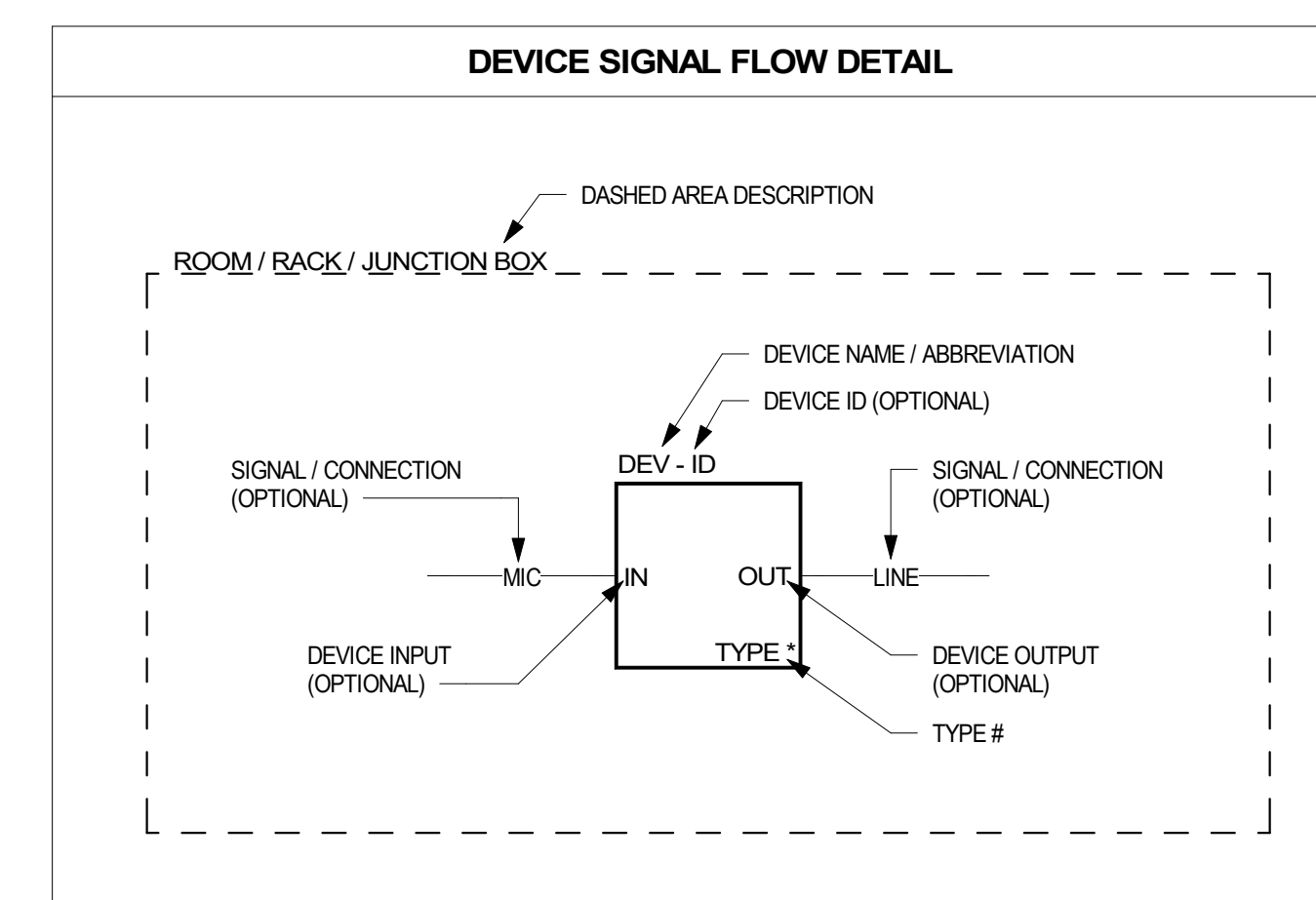
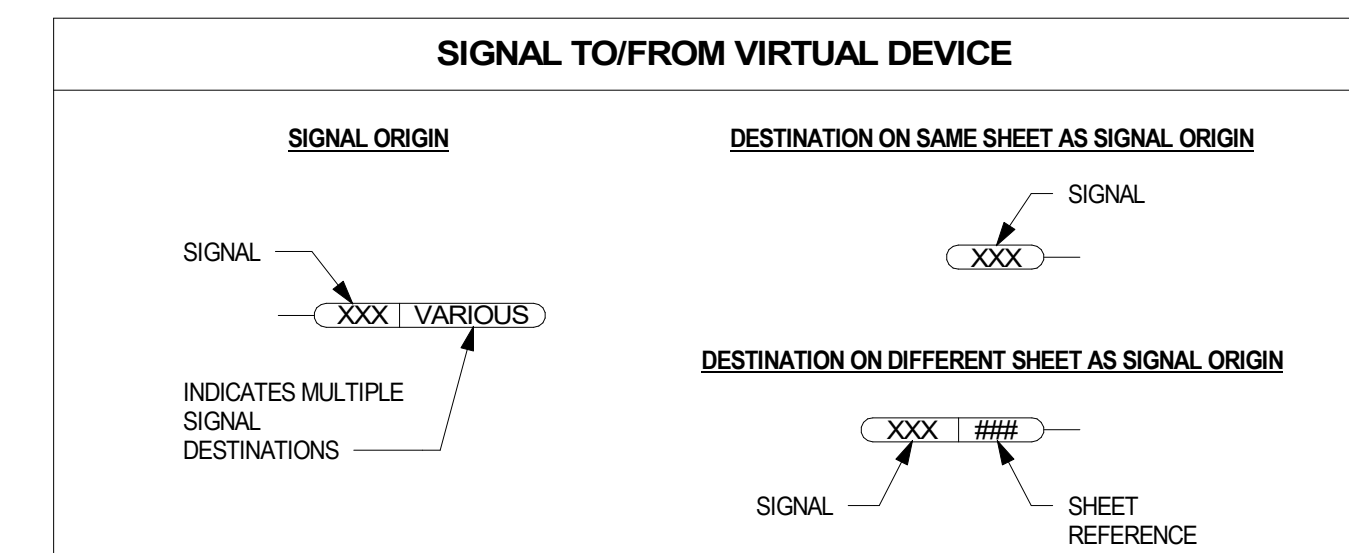
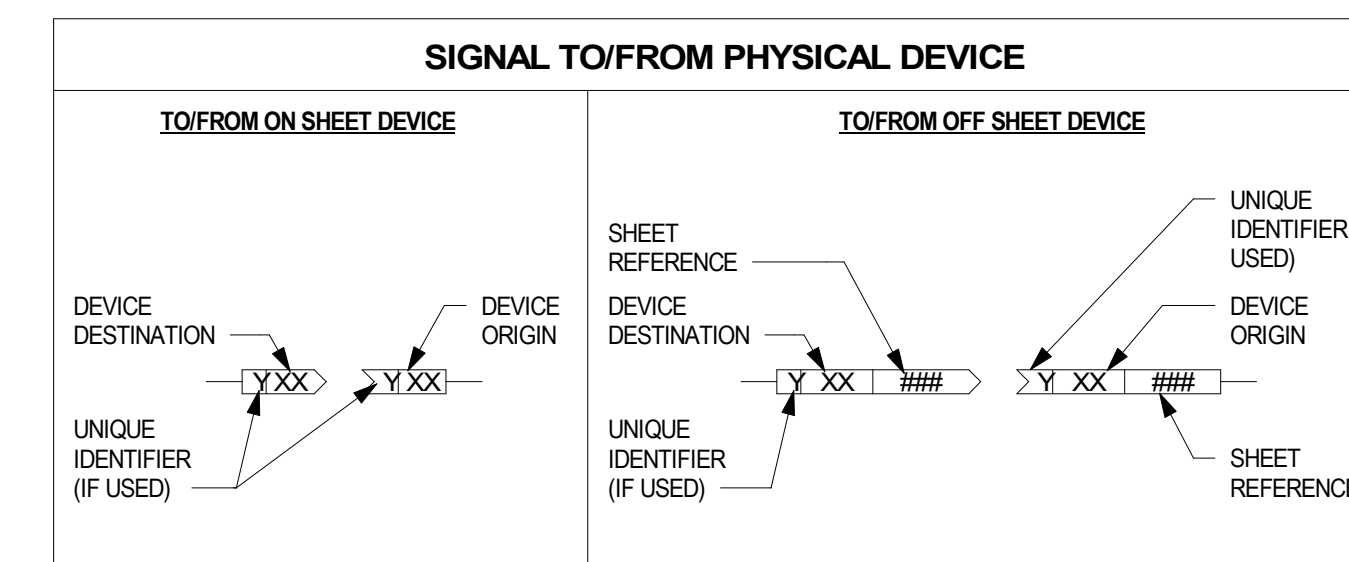
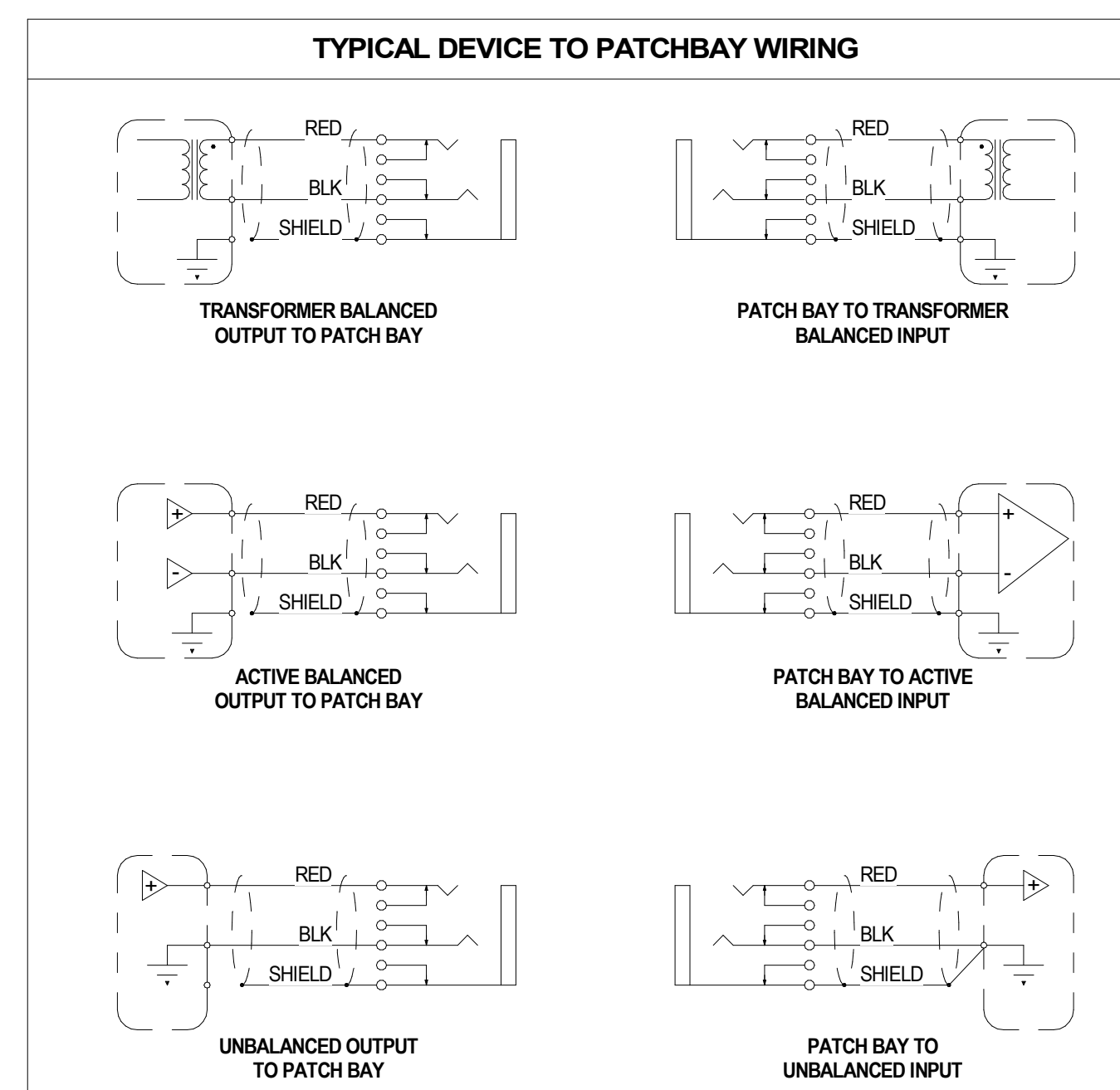
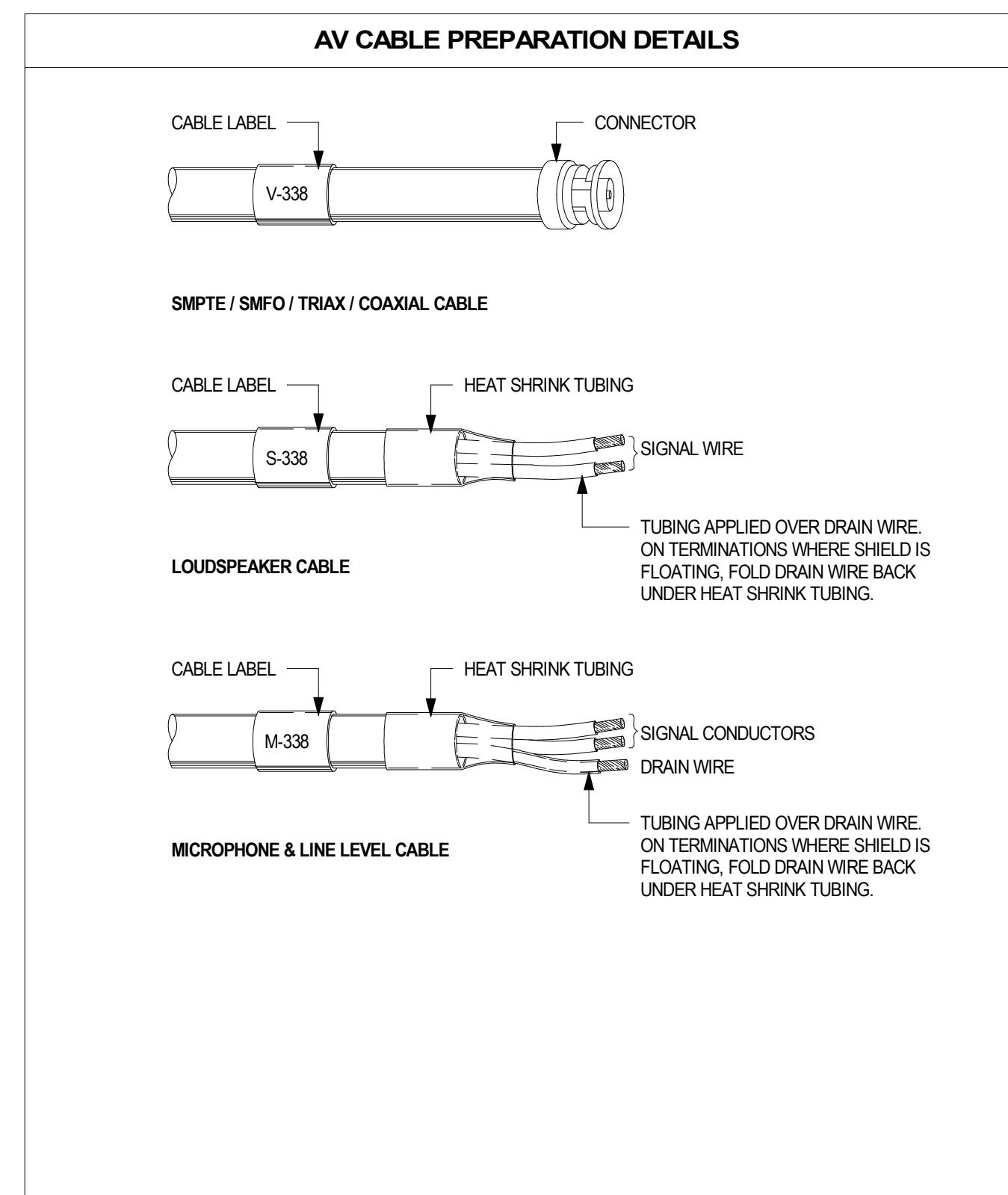
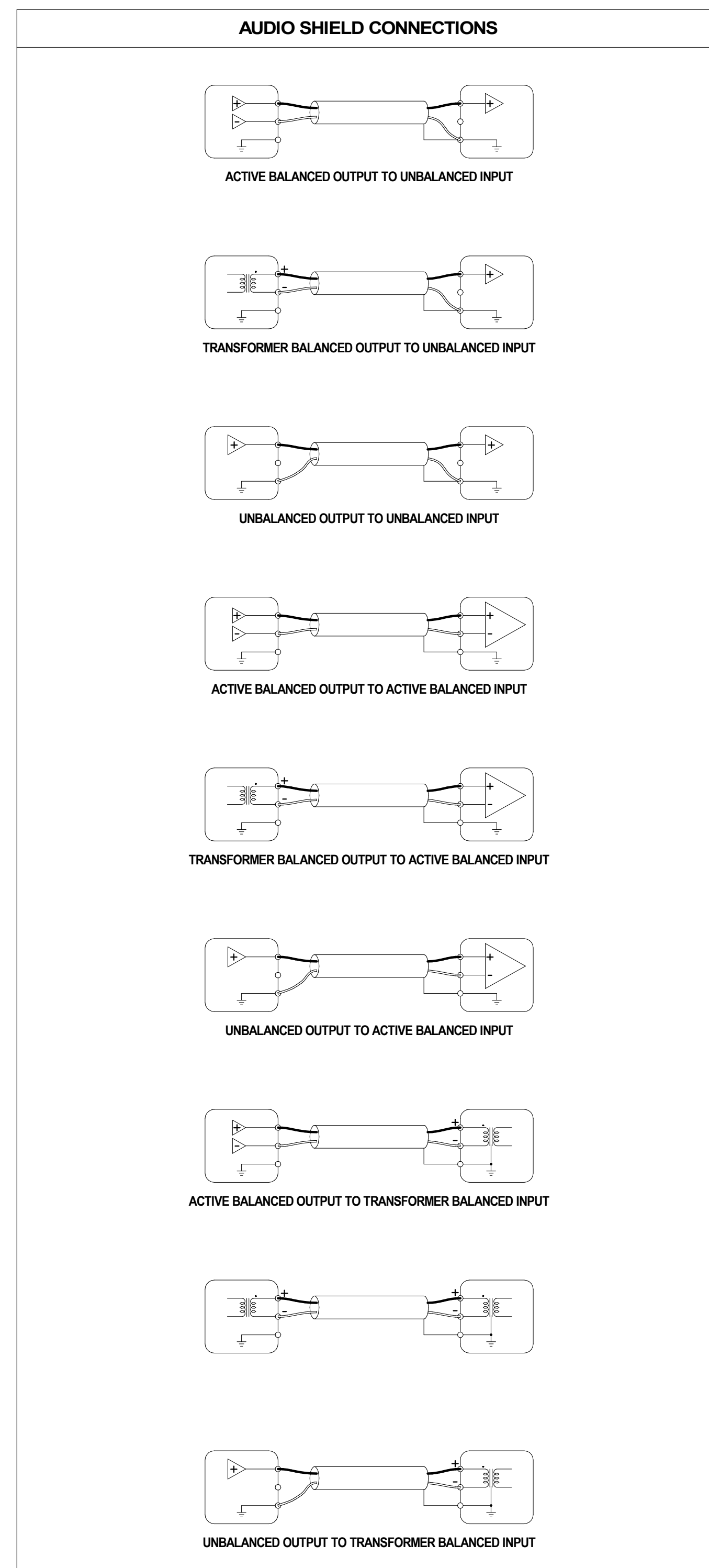
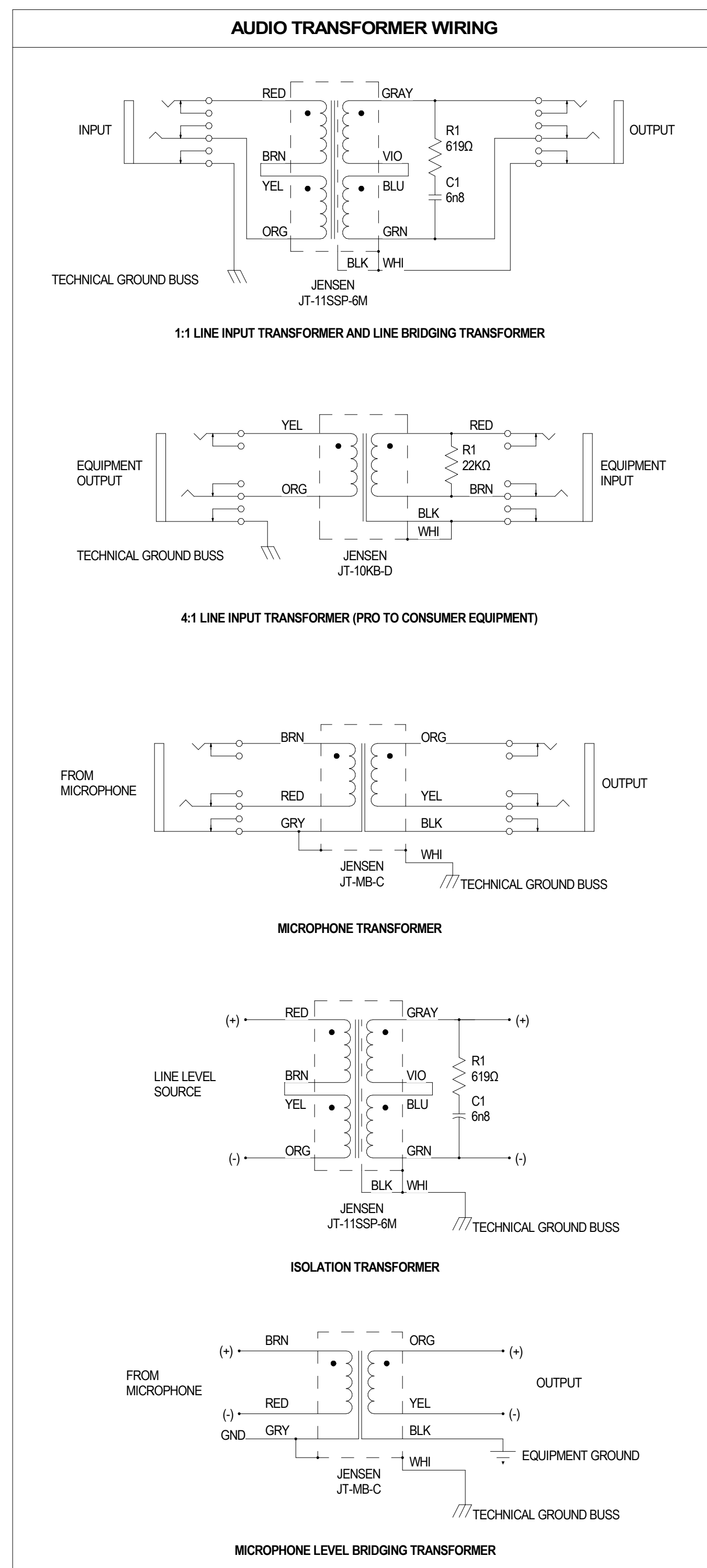
- COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
- PROVIDE A COMPLETE RACEWAY SYSTEM TO CONSIST OF METALLIC CONDUIT (EXCLUDING IN-GROUND PATHWAY), JUNCTION BOXES, DEVICE BACK BOXES, AND FITTINGS UNLESS NOTED OTHERWISE.
- THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
- CONDUIT STUBS FROM DEVICES TO THE NEAREST CABLE TRAY, ACCESSIBLE CEILING, OR OTHER DESTINATIONS SHALL BE CONTINUOUS.
- UNLESS NOTED OTHERWISE, CONDUIT IS 3/4" INCH TRADE SIZE.
- SHOULD ROUGH-IN BOX DEVICE EXIST WITH NO CONDUIT INDICATED TO OR FROM, PROVIDE 1/2" INCH TRADE SIZE CONDUIT FROM DEVICE TO ACCESSIBLE CEILING.
- CONDUIT BODIES (LB'S) ARE NOT PERMITTED.
- CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
- FOR CONDUIT WITH AN INTERNAL DIAMETER GREATER THAN 2 INCHES, MAINTAIN A BEND RADIUS OF AT LEAST 10 TIMES THE INTERNAL CONDUIT DIAMETER.
- BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES. FLEX IS NOT PERMITTED UNLESS NOTED OTHERWISE.
- NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
- NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT 180 DEGREES, BETWEEN PULL BOXES.
- PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
- PULL BOX LENGTH TO BE NO LESS THAN 8 TIMES THE DIAMETER OF THE LARGEST TERMINATING CONDUIT. PULL BOX WIDTH TO BE NO LESS 1/4 THE LENGTH.
- PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES. BACK BOXES AND PULL BOXES WITHOUT FACED LATES. LABELING MATCHES DEVICE NAME AS INDICATED ON DRAWINGS, FOR EXAMPLE "AV1", "ML".
- ALL CONDUITS ENTERING OR EXITING EQUIPMENT RACKS TO BE ISOLATED WITH A NON-METALLIC SPACER OR FITTING.
- PROVIDE CONDUIT TO CROSS INACCESSIBLE CEILINGS OR IN AREAS WITHOUT CEILINGS UNLESS NOTED OTHERWISE.
- PROVIDE CONDUIT IN EXPOSED AREAS, MECHANICAL SPACES, FOOD SERVICES AREAS, AND ELEVATOR CONTROL ROOMS.
- REGARDLESS OF PATHWAY TYPE, ALL CABLING SHALL BE SUPPORTED AT 4 FEET MAXIMUM INTERVALS. CABLES SHALL NOT BE LAID DIRECTLY ON THE CEILING TILE OR RAILS OR STRAPPED TO CONDUIT.
- ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT.
- IF AV AND POWER CONDUITS MUST CROSS, CROSS AT RIGHT ANGLES.
- FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
- REFER TO PROJECT MANUAL FOR FIRE STOPPING REQUIREMENTS.
- REFER TO ELECTRICAL DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

AUDIO VISUAL ABBREVIATIONS

-	NOT APPLICABLE	KVM	KEYBOARD VIDEO MOUSE
ADA	AUDIO DISTRIBUTION AMPLIFIER	LA	LINE AMPLIFIER
AES	AUDIO ENGINEERING SOCIETY	LIM	LIMITER
ALS	ASSISTED LISTENING SYSTEM	LL	LINE LEVEL
AMP	AMPLIFIER, AMPERES		
ANT	ANTENNAE	MATV	MASTER ANTENNA TELEVISION
ANT DA	ANTENNA DISTRIBUTION AMPLIFIER	MIC	MICROPHONE
APB	AUDIO PATCH BAY	MICPRE	MICROPHONE PREAMP
AV	AUDIO VIDEO	MIX	MIXER
AVS	AUDIO VIDEO SWITCHER	ML	MICROPHONE LEVEL
		MOD	MODULATOR
BR	BLU-RAY DISC PLAYER	MON	MONITOR / VIDEO DISPLAY
BDR	BLU-RAY DISC RECORDER	MTR	MULTITRACK PLAYER/RECORDER
BGM	BACKGROUND MUSIC PLAYER	MTX	MATRIX
		NG	NOISE GENERATOR
CAM	CAMERA		
CATV	CABLE TELEVISION	PA	PUBLIC ADDRESS
CCTV	CLOSED CIRCUIT TELEVISION	PAD	AUDIO ATTENUATOR
CCU	CAMERA CONTROL UNIT	PEQ	PARAMETRIC EQUALIZER
CDP	COMPACT DISC PLAYER	PSP	POWERED SPEAKER
CG	CHARACTER GENERATOR	PTZ	PANTILT/ZOOM
CONV	CONVERTER		
CJ	COLLABORATION UNIT	REC	RECORDER
DA	DISTRIBUTION AMPLIFIER		
DAN	DIGITAL AUDIO NETWORK	SATRX	SATELLITE RECEIVER
DM	DIGITAL MEDIA	SB	SCOREBOARD
DM-MTX	DIGITAL MEDIA MATRIX	SC	SCAN CONVERTER
DMP	DIGITAL MEDIA PLAYER	SDI	SERIAL DIGITAL INTERFACE
DMP5	DIGITAL MEDIA PRESENTATION SWITCHER	SPDT	SINGLE POLE DOUBLE THROW
DMR	DIGITAL MEDIA RECORDER	SPG	SYNC PULSE GENERATOR
DMRX	DIGITAL MEDIA RECEIVER / DECODER	SPL	SPLITTER
DMTX	DIGITAL MEDIA TRANSMITTER / ENCODER	SPK	SPEAKER
DMU	DIGITAL MESSAGE UNIT	SPLIT	MICROPHONE SPLITTER
DOC CAM	DOCUMENT CAMERA	SPST	SINGLE POLE SINGLE THROW
DP	DISPLAY PORT	STREAM	DIGITAL VIDEO STREAMING
DPDT	DOUBLE-POLE, DOUBLE-THROW	SUM	AUDIO SUMMING DEVICE
DPST	DOUBLE-POLE, SINGLE-THROW	SW	SWITCHER
DSP	DIGITAL SIGNAL PROCESSOR		
DVE	DIGITAL VIDEO EFFECTS	TD	THROW DISTANCE
DVR	DIGITAL VIDEO RECORDER	TP	TOUCH PANEL
		TV	TELEVISION
EBU	EUROPEAN BROADCASTING UNION		
EQ	EQUALIZER	VBS	VIDEO BURST SYNC
		VC	VOLUME CONTROL
FC	FORMAT CONVERTER	VCA	VOLTAGE CONTROLLED AMPLIFIER
FFM	FLAT PANEL MONITOR	VDA	VIDEO DISTRIBUTION AMPLIFIER
FORX	FIBER OPTIC RECEIVER	VGA	VIDEO GRAPHICS ARRAY
FOTX	FIBER OPTIC TRANSMITTER	VP	VIDEO PROJECTOR
		VPB	VIDEO PATCH BAY
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE	VS	VECTOR SCOPE
HDRX	HDMI RECEIVER	VSG	VIDEO SYNC GENERATOR
HDSOI	HD SERIAL DIGITAL INTERFACE	VSR	VIDEO SERVER
HDTX	HDMI TRANSMITTER	VSW	VIDEO SWITCH
		VTC	VIDEO TELECONFERENCING SYSTEM
ICOM	INTERCOM	VWP	VIDEO WALL PROCESSOR
IFB	INTERRUPTED FOLDBACK		
IPTV	INTERNET PROTOCOL TELEVISION	WFM	WAVEFORM MONITOR
		WMS	WIRELESS MICROPHONE SYSTEM
JBA	JUNCTION BOX - AUDIO	WTX	WIRELESS TRANSMITTER
JBC	JUNCTION BOX - CONTROL		
JBE	JUNCTION BOX - ENG TRUCKS	XFMR	TRANSFORMER
JBL	JUNCTION BOX - AUDIO LINE LEVEL	XOVR	CROSSOVER
JBM	JUNCTION BOX - AUDIO MIC LEVEL		
JBR	JUNCTION BOX - RADIO		
JBS	JUNCTION BOX - SPEAKER		
JBT	JUNCTION BOX - BROADCAST		
JBV	JUNCTION BOX - VIDEO		

PATHWAY DISTRIBUTION



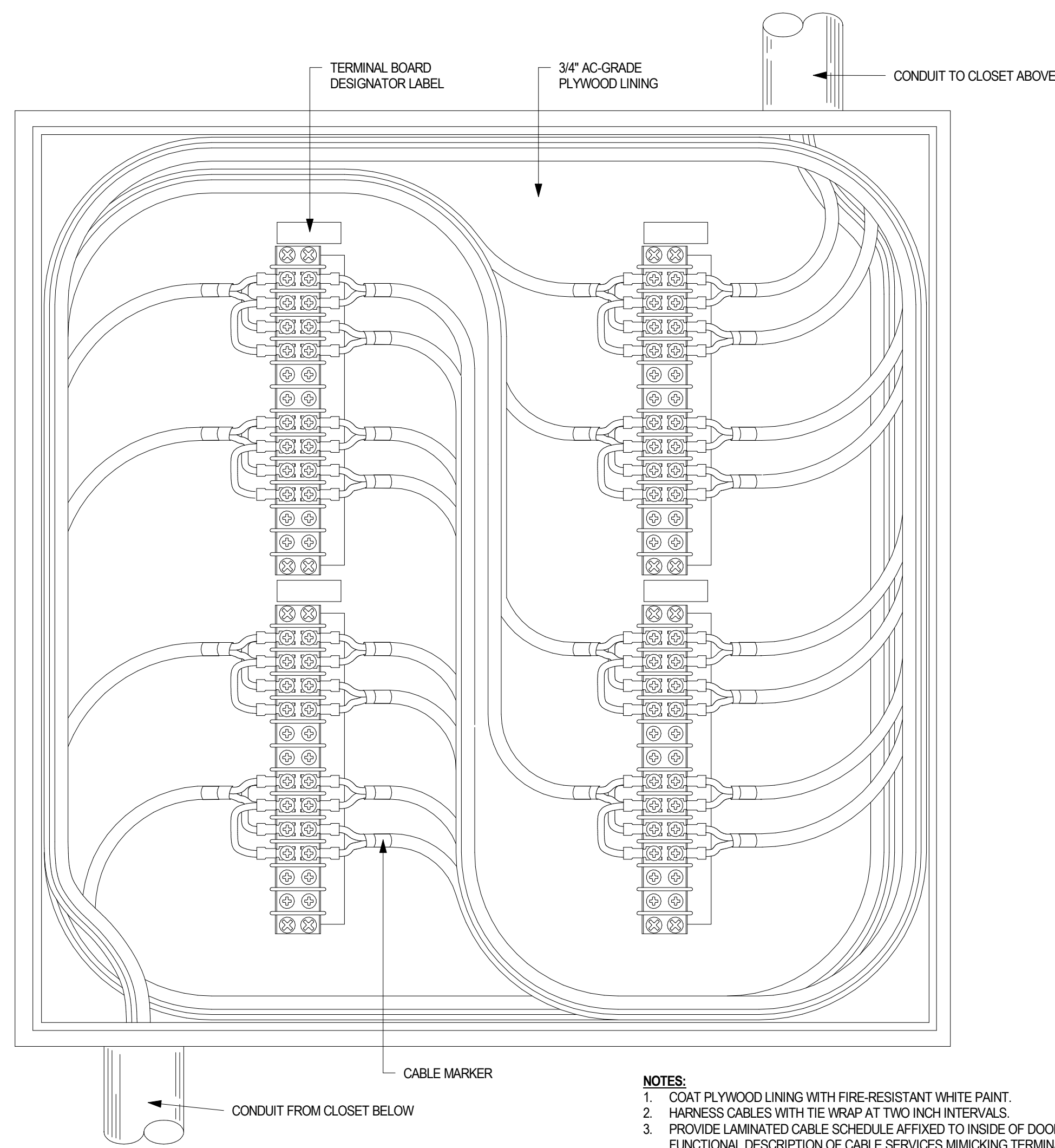


ISSUED FOR CONSTRUCTION	SS
03/22/2024	WJHW
CHECKED BY:	SS
DRAWN BY:	WJHW

MEMORIAL STADIUM
COLUMBIA, BOONE COUNTY, MISSOURI 65211
NORTH CONCOURSE VIDEO BOARD REPLACEMENT

ISSUED FOR CONSTRUCTION	SS
03/22/2024	SS
DRAWN BY: WJHW	CHECKED BY:

SPEAKER JUNCTION BOX TERMINATION DETAILS

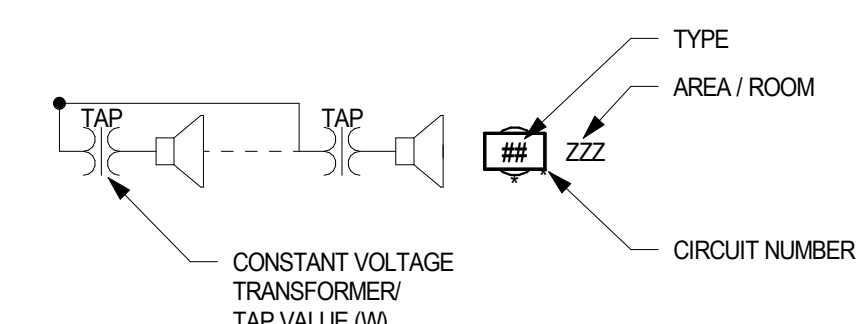


- NOTES:**
1. COAT PLYWOOD LINING WITH FIRE-RESISTANT WHITE PAINT.
 2. HARNESS CABLES WITH TIE WRAP AT TWO INCH INTERVALS.
 3. PROVIDE LAMINATED CABLE SCHEDULE AFFIXED TO INSIDE OF DOOR. PROVIDE FUNCTIONAL DESCRIPTION OF CABLE SERVICES MIMICKING TERMINAL BOARD LAYOUT.

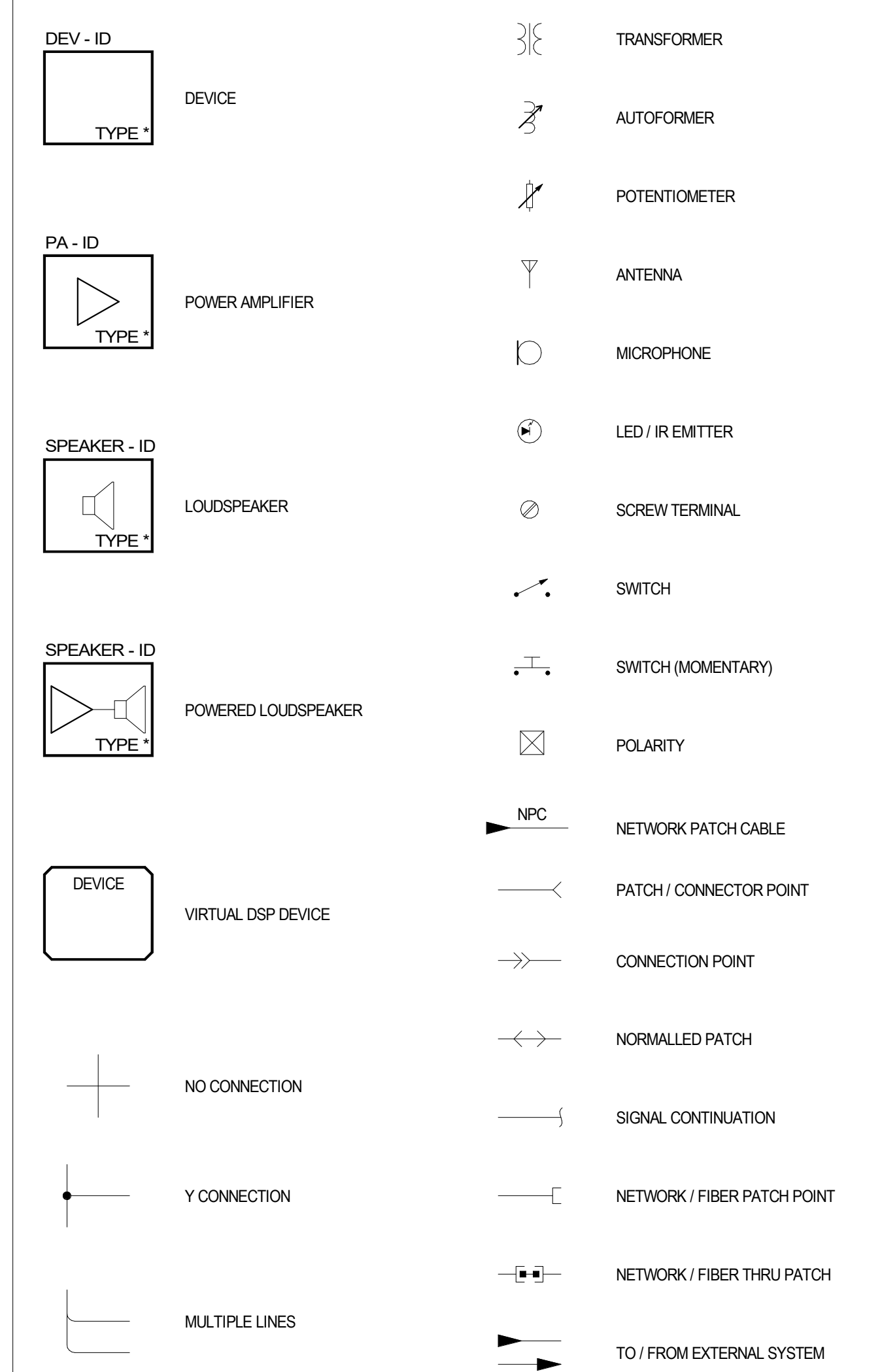
PANEL SYMBOL LEGEND



PARALLELED SPEAKERS DETAIL



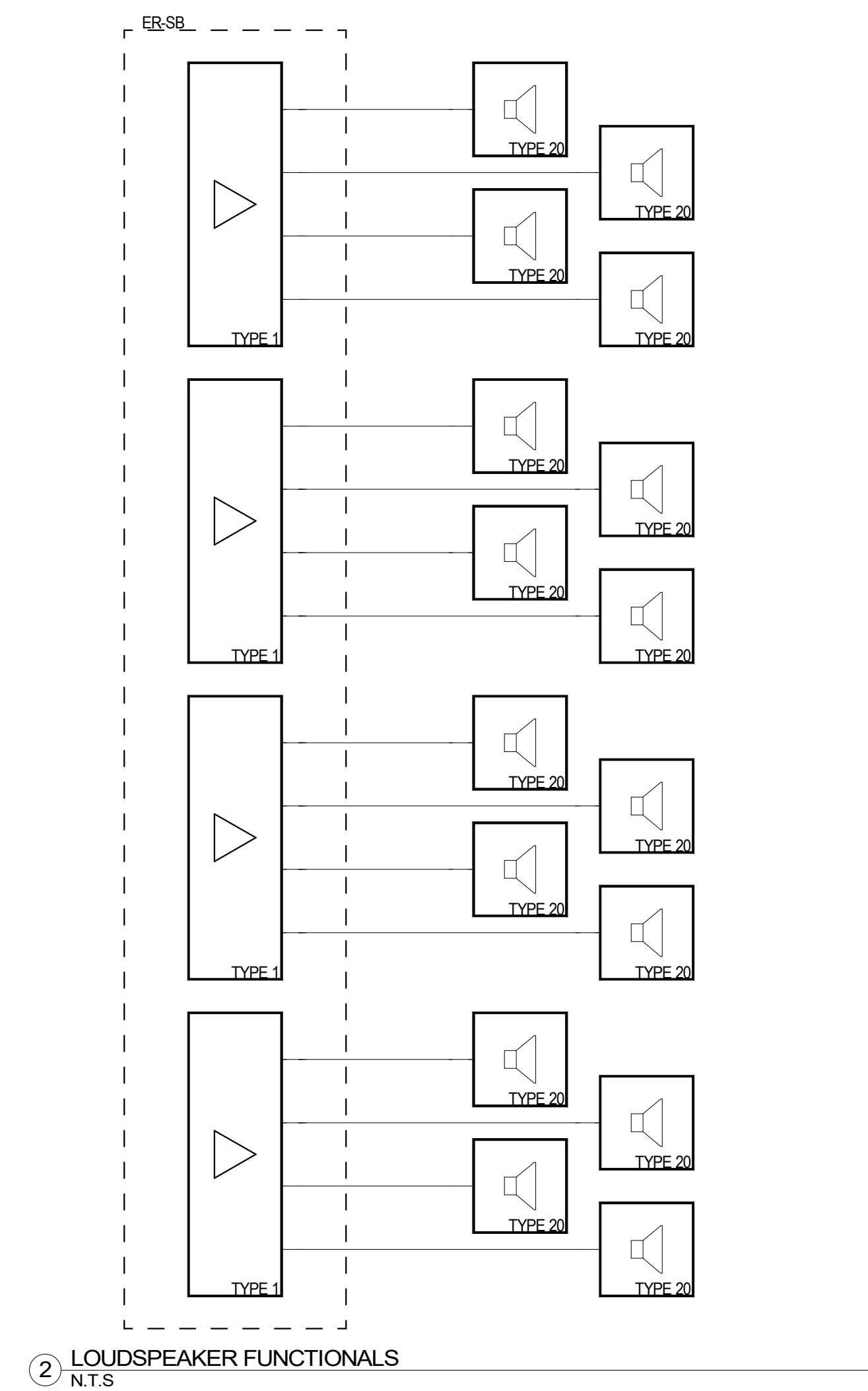
FUNCTIONAL SYMBOL LEGEND



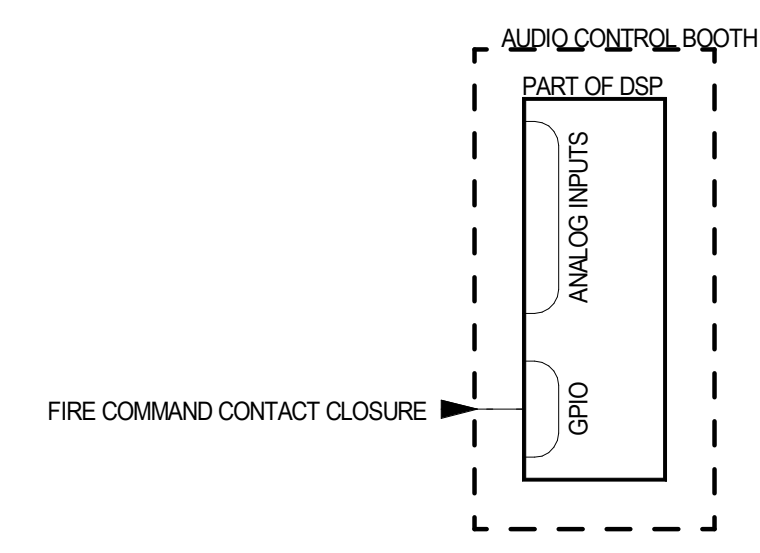
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COLUMBIA, BOONE COUNTY, MISSOURI 65211
NORTH CONCOURSE VIDEO BOARD REPLACEMENT

PROJECT NUMBER
CP241291

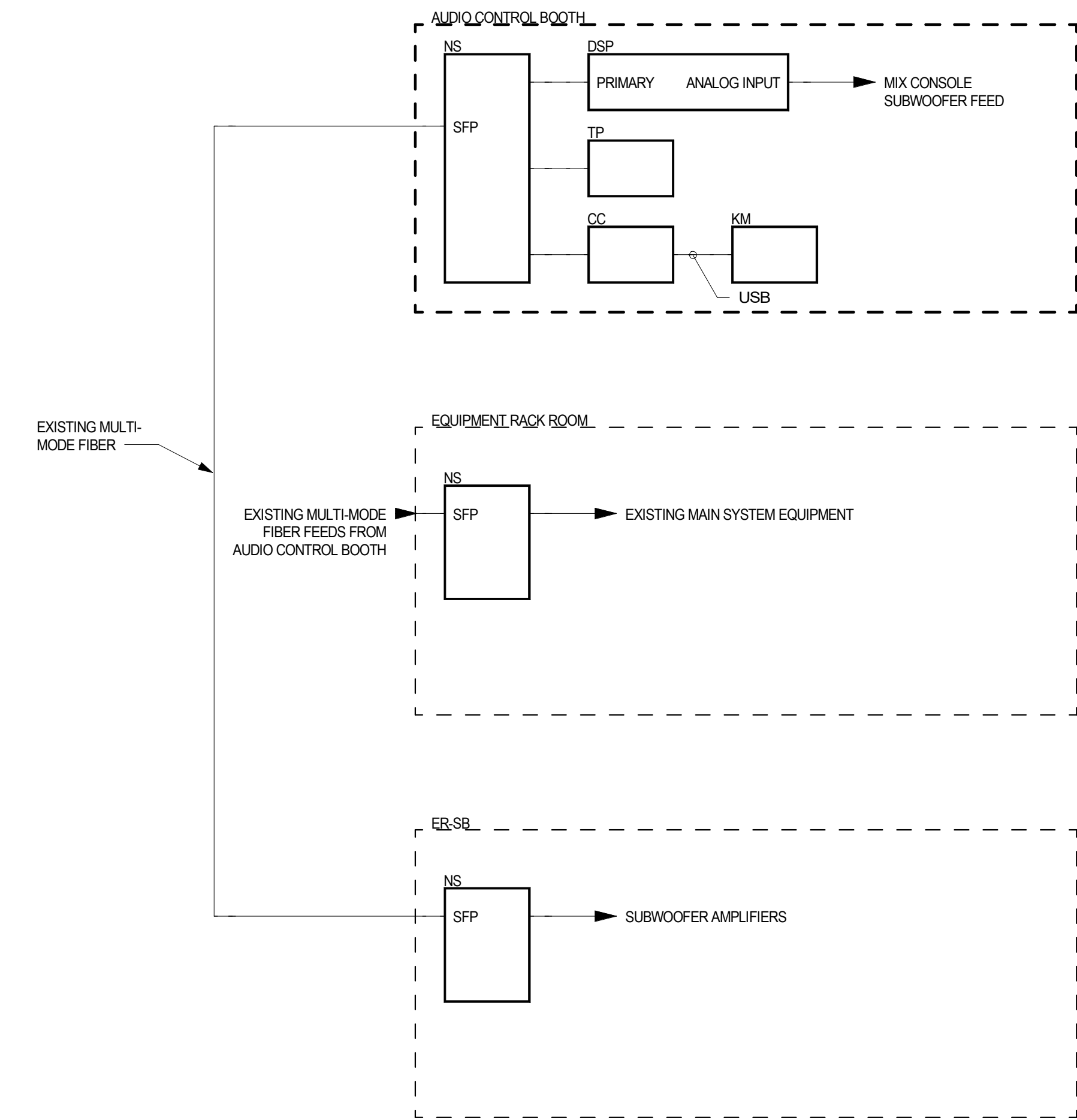
SHEET
AV1101



② LOUDSPEAKER FUNCTIONALS
 N.T.S



③ FIRE ALARM INTERFACE
 N.T.S
 NOTES:
 1. COORDINATE DSP CONFIGURATION WITH OWNER AND AUTHORITY HAVING JURISDICTION (AHJ).



① DIGITAL AUDIO NETWORK FUNCTIONAL
 N.T.S

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MEMORIAL STADIUM
 COLUMBIA, BOONE COUNTY, MISSOURI 65211
 NORTH CONCOURSE VIDEO BOARD REPLACEMENT

PROJECT NUMBER
CP241291

SHEET
AV1112

ISSUED FOR CONSTRUCTION

03/22/2024

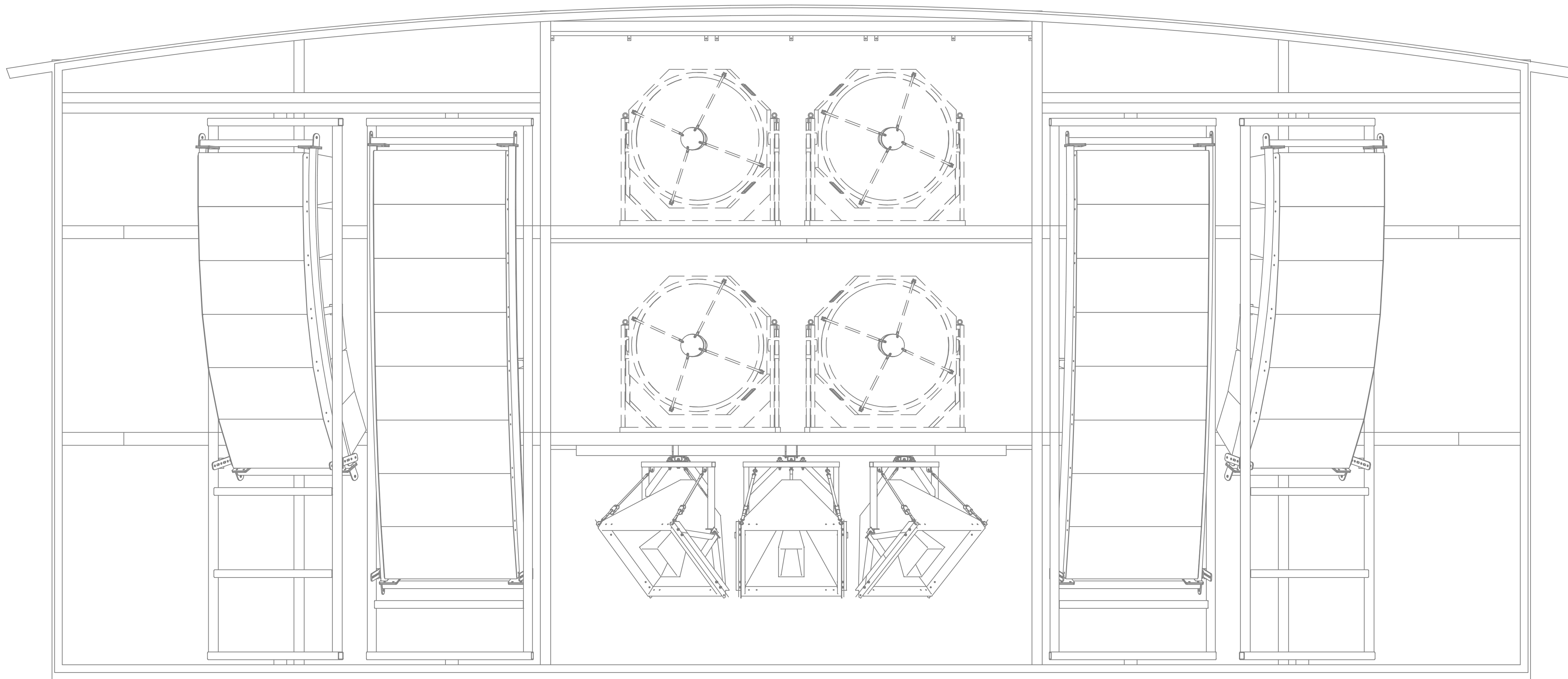
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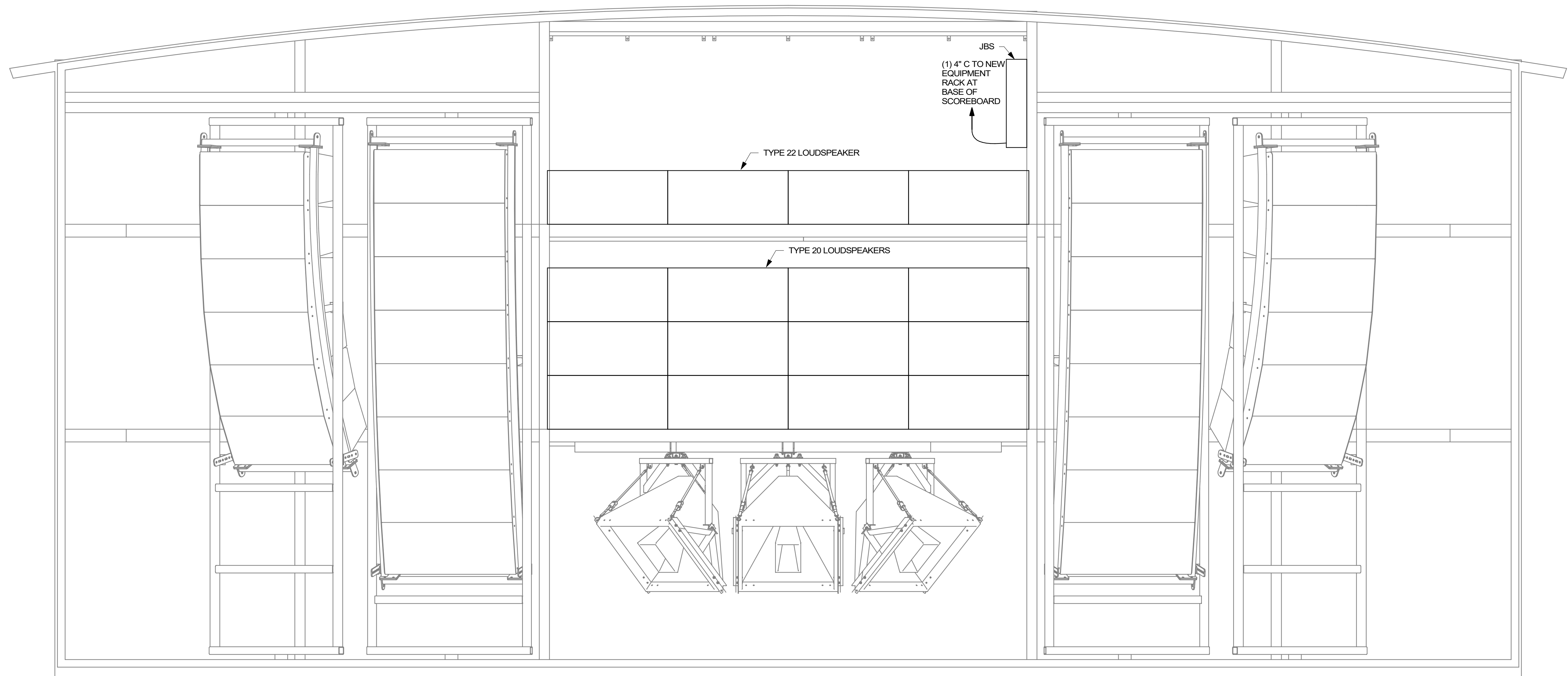
PROJECT NUMBER
CP241291

SHEET
AV1190



① AV DEMOLITION PLAN
1/2" = 1'-0"

NOTE: REMOVE FOUR EXISTING MEYER SOUNDBEAMS.



① AV_SCOREBOARD LOUDSPEAKERS
1/2" = 1'-0"

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MEMORIAL STADIUM
COLUMBIA, BOONE COUNTY, MISSOURI 65211
NORTH CONCOURSE VIDEO BOARD REPLACEMENT

PROJECT NUMBER
CP241291

SHEET
AV1191

ISSUED FOR CONSTRUCTION	CHECKED BY: SS
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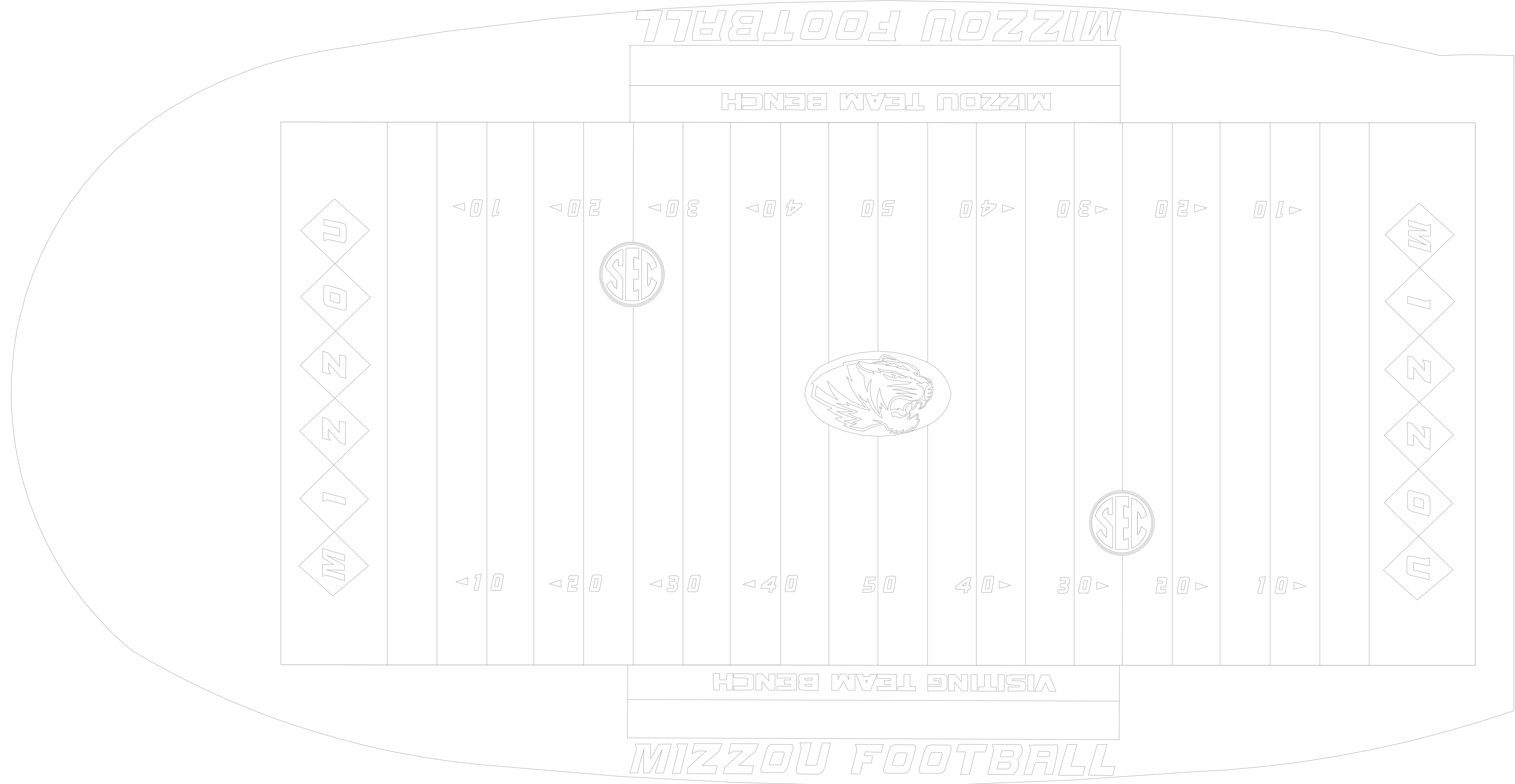
MEMORIAL STADIUM
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 NORTH CONCOURSE VIDEO BOARD REPLACEMENT

PROJECT NUMBER
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SHEET
AV1192

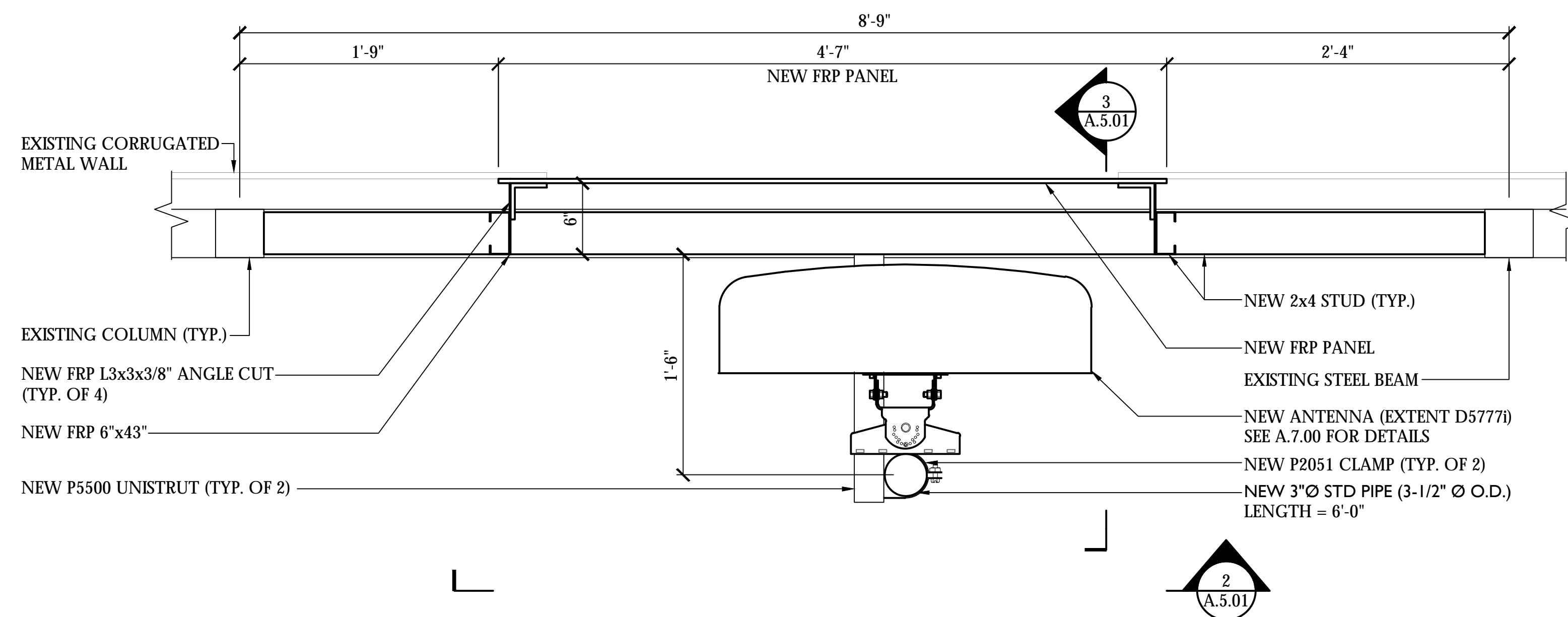
SCOREBOARD
 STRUCTURE

ER-SB



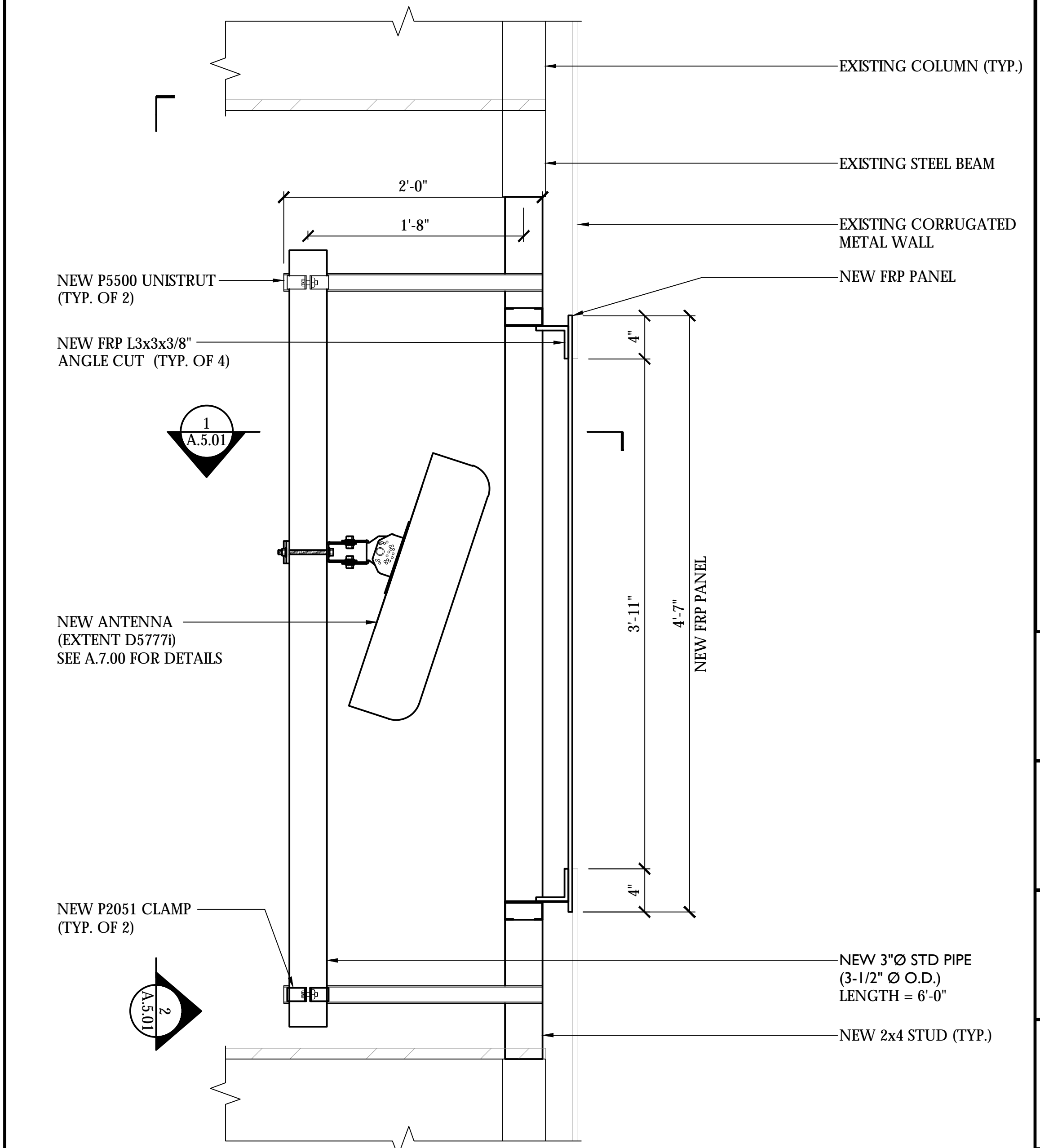
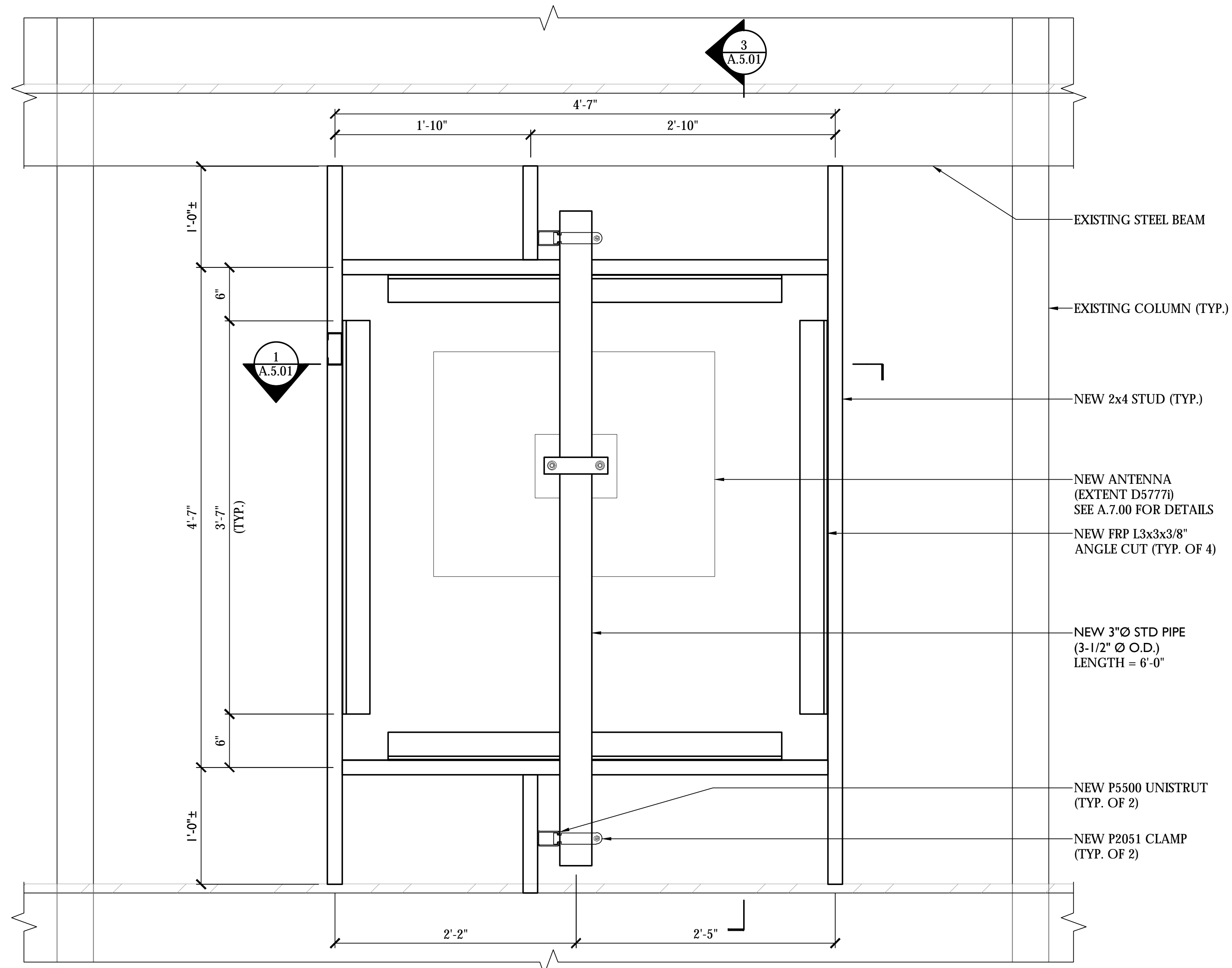
① NEW EQUIPMENT RACK DETAIL
 1/16" = 1'-0"

NOTE:
CONTRACTOR TO COORDINATE
CONCEALMENT DESIGN WITH STEALTH



ANTENNA PLAN

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



ANTENNA ELEVATION

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

ELEVATION

SCALE: 1-1/2" = 1'-0" 3

FOR REFERENCE

SITE NAME:
FAUROT FIELD

SITE NUMBER:
**AT&T
ANTENNA
INSTALLATION**

SITE ADDRESS:
600 E. STADIUM BLVD.
COLUMBIA, MO 65201

SHEET NAME:
**SCOREBOARD
ANTENNA
LAYOUT**

SHEET NUMBER:

A.6.01

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