



DATE: 5/22/18

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SHEET LEGEND

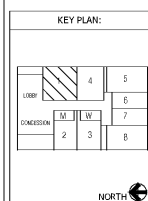
GRID	GENERAL DIMENSIONS & ELEVATION
SECTION	SECTION CUT SYMBOLS
DETAIL	DETAIL SYMBOLS
ASSEMBLY	ASSEMBLY SYMBOLS
FINISH	FINISH SYMBOLS
NOTE	NOTE SYMBOLS
PLATE	PLATE SYMBOLS
WELD	WELD SYMBOLS
ANCHOR	ANCHOR SYMBOLS
CONCRETE	CONCRETE SYMBOLS
STEEL	STEEL SYMBOLS
WOOD	WOOD SYMBOLS
GLASS	GLASS SYMBOLS
INSULATION	INSULATION SYMBOLS
MECHANICAL	MECHANICAL SYMBOLS
ELECTRICAL	ELECTRICAL SYMBOLS
PLUMBING	PLUMBING SYMBOLS
HEATING	HEATING SYMBOLS
COOLING	COOLING SYMBOLS
PAINT	PAINT SYMBOLS
FINISH	FINISH SYMBOLS

AMC MADISON YARDS 8
AMC NEW BUILD
905 MEMORIAL DRIVE SE
ATLANTA, GA 30316



REV	DATE	DESCRIPTION

ORIGINAL SCALE DATE: 01/17/2018



SHEET TITLE:
SCREEN STRUCTURE FRONT ISOMETRIC

SHEET NUMBER:
PLFS4.1

MEMBER LIST:

- A** "WRAP-AROUND" SCREEN FRAME BY MDI
- B** COLUMN C-SHAPE UPRIGHT
3" x 1.625" x 14 GAGE (0.070") A570 GRADE 50
- C** TRUSS WEB C-SHAPE
1.5" x 1.0" x 16 GAGE (0.060") A570 GRADE 36
- D** ROUND TUBE HSS 0.750" x 20 GAGE (0.035") A513 GRADE 1010 TYPE 1 (F_y = 26 KSI MIN)
OR
X-BRACE FLAT BAR 1.0" x 0.25" A36 GRADE (F_y = 36 KSI)
- E** MAIN RECTANGULAR BOX BEAM
3.0" x 1.550" x 14 GAGE (0.070") A570 GRADE 50
- F** SECONDARY RECTANGULAR TUBE BEAM
HSS 2.0" x 1.0" x 11 GAGE (0.045") A513 GRADE 1010 TYPE 1 (F_y = 26 KSI)
- G** OPEN STEEL PLANKS
OSP 9" x 2" x 18 GAGE (AT SPEAKER PLATFORMS, CATWALK LEVELS ONLY)
- H** LATERAL TRUIT
L2x2x1/4 ANGLE GRADE A36 5'-0" MAX LENGTH
- I** UNIFORM P1000 w/ CONNECTION BRACE
12 GA G101 SS GRADE 30

GENERAL STRUCTURAL NOTES FOR SCREEN STRUCTURE:

1. THE INTENT OF THESE STRUCTURAL DRAWINGS IS TO SHOW THE PRIMARY STRUCTURAL COMPONENTS AND MEMBERS OF THE SCREEN SUPPORT STRUCTURE. NON-STRUCTURAL COMPONENTS SUCH AS LADDERS, SAFETY DEVICES, SCREEN MATERIALS, ETC. ARE BY OTHERS.
2. INSTALLER SHALL REFER TO STRONG / MDI SCREEN SYSTEM DRAWINGS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION, PARTS LIST, AND ERECTION DETAILS.
3. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE w/ GEORGIA AMENDMENTS
4. DESIGN LOADS:
 - A. DEAD LOADS OF SCREEN SYSTEM:
 - 1. SCREEN FRAME STRUCTURE WEIGHT: 5,275 LBS
 - 2. SCREEN FABRIC WEIGHT: 173 LBS
 - 3. WRAP-AROUND FRAME WEIGHT: 473 LBS
 - 4. SPEAKERS (5) WEIGHT: 2,250 LBS
 - 5. SCREEN SHAKERS: 336 LBS
 - 6. UNI-STRUT FOR SCREEN SHAKERS: 1,136 LBS
 - 7. Baffle WALL (PLYWOOD & INS): 1,200 LBS
 - 8. TOTAL WEIGHT (INCLUDING SPEAKERS): 11,043 LBS
 - B. CATWALKS FOR MAINTENANCE ACCESS: 40 PSF
 - C. SEISMIC CRITERIA:
 - 1. OCCUPANCY CATEGORY: III
 - 2. SITE SOIL CLASS: D
 - 3. SHORT PERIOD RESPONSE, S_s: 0.130g
 - 4. 1-SECOND PERIOD RESPONSE, S₁: 0.091g
 - 5. DESIGN RESPONSE, SDS: 0.206g
 - 6. DESIGN RESPONSE, SD1: 0.146g
 - 7. SEISMIC DESIGN CATEGORY: C
 - 8. R-FACTOR (SIGNS & BILLBOARDS): 3.0
 - 9. I-FACTOR (PERP TO SCREEN): 1.00
 - 10. I-FACTOR (PARALLEL TO SCREEN): 1.25
5. SPECIAL INSPECTIONS OF THE FOLLOWING ITEMS SHALL BE PERFORMED ON A PERIODIC BASIS IN ACCORDANCE WITH CHAPTER 17 OF THE 2012 INTERNATIONAL BUILDING CODE w/ GEORGIA AMENDMENTS:
 - A. POST-INSTALLED ANCHORS IN CONCRETE
 - B. STEEL MATERIAL VERIFICATION
 - C. STEEL BOLTING IN FIELD
 - D. STEEL FRAMING IN SITU

COLUMN REACTION TABLE (KIPS)

LOCATION	DEAD LOAD ONLY	DEAD PLUS LIVE LOAD	SEISMIC UPLIFT	SEISMIC LATERAL
R1	0.76	0.83	N/A	±0.03
R2	0.68	0.75	N/A	±0.14
R3	1.00	1.12	N/A	±0.01
R4	1.03	1.16	N/A	±0.36

NOTES:

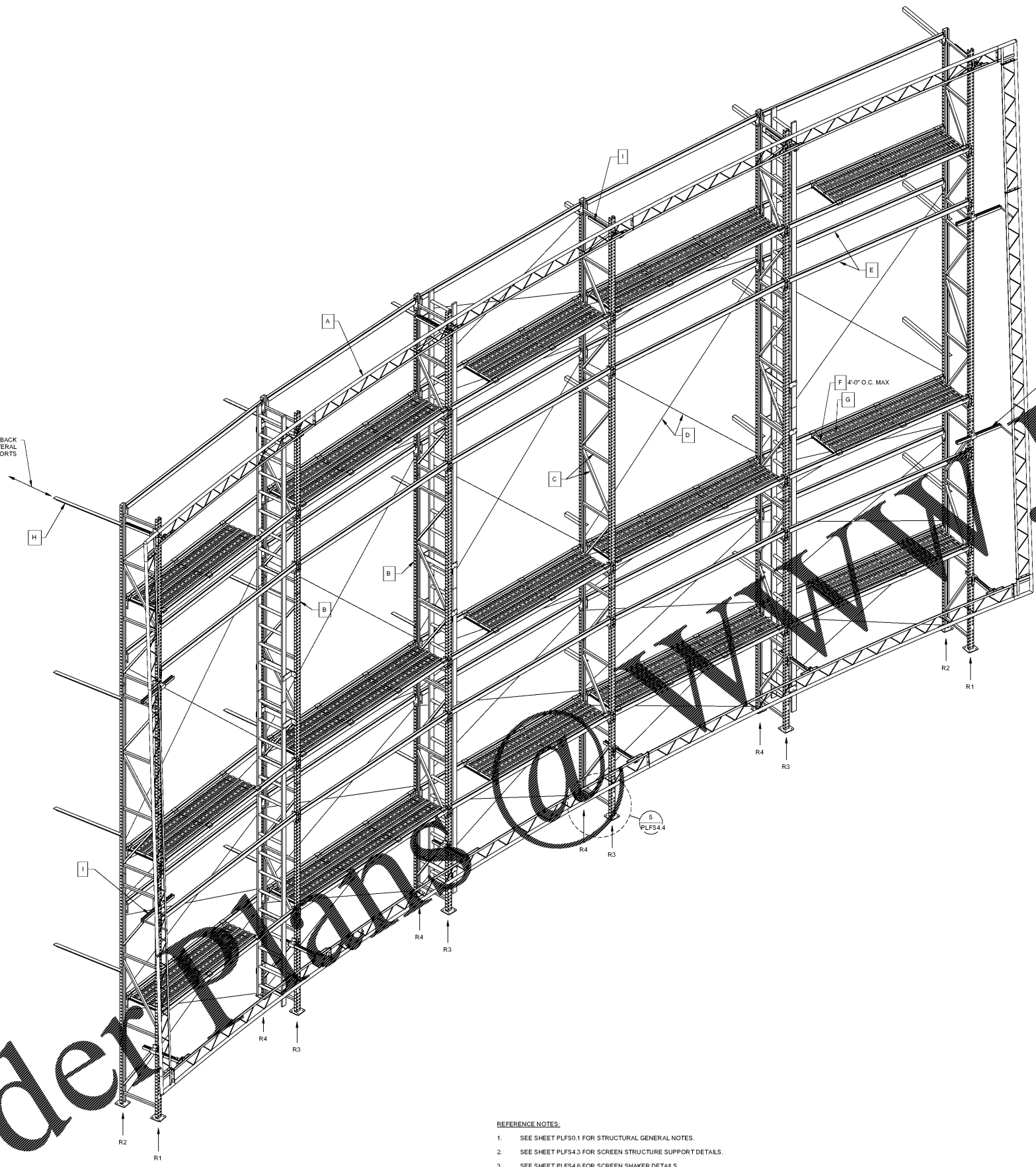
1. DEAD PLUS LIVE LOAD REACTIONS INCLUDE 1,250 POUND OPERATING LIVE LOAD CONTINGENCY AND IS INTENDED TO ACCOUNT FOR NORMAL MAINTENANCE PERSONNEL.
2. UPLIFT AND LATERAL REACTIONS ARE ASS SEISMIC LOADS WITH A LOAD FACTOR = 0.7E

REFERENCE NOTES:

1. SEE SHEET PLFS0.1 FOR STRUCTURAL GENERAL NOTES.
2. SEE SHEET PLFS4.3 FOR SCREEN STRUCTURE SUPPORT DETAILS.
3. SEE SHEET PLFS4.6 FOR SCREEN SHAKER DETAILS.

1
PLFS4.1
SCREEN STRUCTURE FRONT ISOMETRIC
N.T.S.

SEE SCREEN STRUCTURE BACK ISOMETRIC SHEET FOR LATERAL REACTIONS AT STRUT SUPPORTS



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