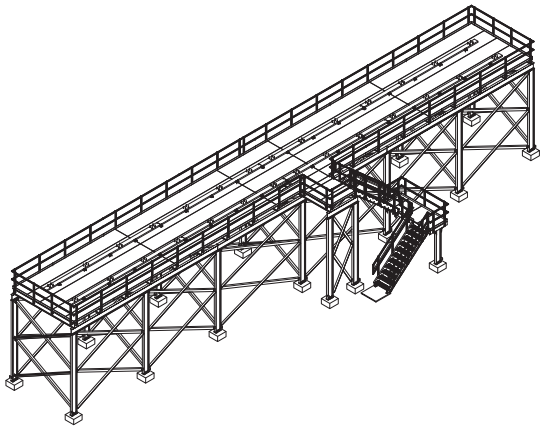
SWAGER COMMUNICATIONS, INC.

18'-9" Localizer Platform at Assembly Drawing Package

LET	REVISION	DATE	APP'D
–	INITIAL RELEASE	09/23/22	L.S.
A	CORRECTED ROW "C" PIERS	11/08/22	L.S.



BUILDING CODES USED FOR DESIGN:

1. INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION.

DESIGN LOADS: (LIVE LOADS NOT REDUCIBLE)

1. LIVE LOADS, UNIFORM: LIVE LOADS, CONCENTRATED: SUPERIMPOSED DEAD LOADS:
   PLATFORM: 60psf PLATFORM: 300psf PLATFORM: 25psf
   STAIRS: 100psf STAIRS: 300psf STAIRS: 8psf
2. WIND DESIGN DATA:
   A. ANALYTICAL PROCEDURE: METHOD 2 FOR OTHER STRUCTURES
   B. BASIC WIND SPEED (3-SEC GUST): V = 105mph
   C. OCCUPANCY CATEGORY: IV
   D. WIND IMPORTANCE FACTOR: I = 1.15
   E. EXPOSURE CATEGORY: D
   F. TOPOGRAPHICAL FACTOR: Kzt = 1.0
   G. GUST FACTOR: G = 0.85
   H. FORCE COEFFICIENT: Ct = 1.8
   I. MAX WIND PRESSURE: 25psf
3. SEISMIC DESIGN DATA:
   A. ANALYTICAL PROCEDURE: EQUIVALENT FORCE PROCEDURE FOR NON–BUILDING STRUCTURE
   B. OCCUPANCY CATEGORY: IV
   C. SEISMIC IMPORTANCE FACTOR: Ie = 1.5
   D. MAPPED SPECTRAL ACCELERATIONS: Ss = 0.614, S1 = 0.199
   E. SITE CLASS: E
   F. SPECTRAL RESPONSE COEFFICIENT: Sds = 0.602, Sd1 = 0.425
   G. SEISMIC DESIGN CATEGORY: D
   H. ORDINARY STEEL CONCENTRICALLY BRACED FRAMES WITH PERMITTED HEIGHT INCREASE
   I. SEISMIC RESPONSE COEFFICIENT: Cs = 0.36
   J. BASE SHEAR: V = 34 kips
4. ICE LOADS:
   A. NORMAL ICE THICKNESS: ti = 1/4"
   B. WIND VELOCITY CONCURRENT WITH ICE: vi = 40mph
5. SNOW LOADS:
   A. GROUND SNOW: Pg = 40psf
   B. FLAT ROOF SNOW: Pf = 40psf
   C. EXPOSURE FACTOR: Ce = 0.8
   D. IMPORTANCE FACTOR: Is = 1.2
   E. THERMAL FACTOR: Ct = 1.2
6. DEFLECTION CRITERIA:
   A. GRAVITY: LIVE LOAD = L/360, TOTAL LOAD = L/240
   B. LATERAL: SWAY = L/200, 3" MAX
      TWIST = 0.05°, MAX

STRUCTURAL STEEL:

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL MEMBERS SHALL BE IN ACCORDANCE WITH THE AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AS INDICATED IN THE FIFTEENTH EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" FOR ALLOWABLE STRESS DESIGN, UNLESS OTHERWISE NOTED.
2. ALL STRUCTURAL STEEL WIDE FLANGE BEAMS SHALL CONFORM TO THE REQUIREMENTS OF ASTM–A992/A572 (50ksi YIELD STRENGTH MATERIAL); ALL ADDITIONAL STRUCTURAL STEEL PLATES, BARS, RODS, ANGLES, SHAPES, ETC., SHALL CONFORM TO THE REQUIREMENTS OF ASTM–A572–50 (50ksi YIELD STRENGTH MATERIAL).
3. ALL FILLER METAL USED IN WELDING SHALL BE 70ksi YIELD, LOW–HYDROGEN.
4. ALL WELDING SHALL BE BY CERTIFIED WELDERS AND SHALL CONFORM TO THE "STRUCTURAL WELDING CODE", A.W.S. D1.1 AND MEET THE AISC MINIMUM REQUIREMENTS FOR WELD SIZE.
5. FIELD CONNECTIONS ARE TO BE BOLTED AND INSTALLED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS" USING ASTM–A325 OR A490 BOLTS". USE MINIMUM 3/4"ø BOLTS & NUTS, A325–TYPE 1, UNLESS NOTED OTHERWISE. CONNECTIONS SHALL BE ST TYPE, EXCEPT WHERE FT OR SC TYPE CONNECTIONS ARE SPECIFICALLY NOTED. WHERE SC TYPE CONNECTIONS ARE NOTED, PROVIDE CLASS A FLAYING SURFACES, WITH SLIP CHECKED AT SERVICE LEVEL.
6. ALL PLATES USED IN BOLTED CONNECTIONS SHALL HAVE ROLLED OR GAS CUT EDGES. "SPECIFICATION FOR STRUCTURAL JOINTS" USING ASTM–A325 OR A490 BOLTS". USE MINIMUM
7. ALL STRUCTURAL STEEL PLATFORM MEMBERS SHALL BE HOT–DIPPED GALVANIZED, AFTER FABRICATION, AND CONFORM TO THE REQUIREMENTS OF ASTM–A123.
8. ALL BOLT ASSEMBLIES OF 1/2"ø AND GREATER SHALL INCLUDE JAM NUTS IN ADDITION TO THE HEAVY–HEX NUT. ALL 3/8"ø BOLT ASSEMBLIES SHALL INCLUDE TWO STD–HEX NUTS, IN LIEU OF A JAM NUT. BOLTS SHALL BE TIGHTENED USING THE "SNUG–TIGHT JOINTS METHOD", AS DEFINED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RSSC) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM–A325 OR A490 BOLTS", DATED 06/30/04, SECTION 4.1. USING THE "SNUG–TIGHT JOINTS" METHOD, BOLT TORQUE VALUES & DIRECT TENSION INDICATORS ARE NOT TO BE USED.
9. FIBERGLASS GUARDRAIL & TOEBOARD DETAILS MAY VARY FROM REGION–TO–REGION, DUE TO VARIOUS LOCAL/STATE BUILDING CODES. A SUPPLEMENTARY SUBMITTAL WILL BE SUPPLIED FROM A QUALIFIED FIBERGLASS MANUFACTURER FAMILIAR WITH THE REQUIREMENTS OF THE INVOLVED GOVERNING AGENCIES.

BILL OF MATERIALS

QTY	MARK	DESCRIPTION	MATERIAL	PART MARK	ASSY MARK	WT–EA
ANCHOR BOLT KIT: (MAY SHIP IN ADVANCE OF THE PLATFORM STRUCTURE)						
102	–	1¼"ø ANCHOR BOLT	F1554–55 Gr. 105, H.D.G.	3	0	2.00
204	–	1/2" FLAT WASHER	H.D.G.; SUPPLIER STOCK	–	----	0.02
510	–	1/2" HEAVY–HEX NUT	H.D.G.; SUPPLIER STOCK	–	----	0.09
17	EW–BP	ANCHOR BOLT BEARING PLATE	3/8 x 10 PL	1	4	17.02
17	EW–ABT	ANCHOR BOLT SET TEMPLATE	1/4 x 10 PL	1	4	11.34
PLATFORM STRUCTURE:						
1	EW–L1	LEG	W14 x 22.0 W–BEAM (e)	16	6–5/8	428.1
1	EW–L2	LEG	W14 x 22.0 W–BEAM (e)	16	6–5/8	428.1
6	EW–L3	LEG	W14 x 22.0 W–BEAM (e)	16	6–5/8	434.8
3	EW–L4	LEG, SPLICE	W14 x 22.0 W–BEAM (e)	16	6–5/8	434.8
1	EW–L5	LEG	W14 x 22.0 W–BEAM (e)	16	6–5/8	428.1
1	EW–L6	LEG, SPLICE & LANDING	W14 x 22.0 W–BEAM (e)	16	6–5/8	434.8
1	EW–L7	LEG	W14 x 22.0 W–BEAM (e)	16	6–5/8	428.1
1	EW–L8	LEG, EXTENSION	W14 x 22.0 W–BEAM (e)	16	6–5/8	416.6
1	EW–L9	LEG, EXTENSION	W14 x 22.0 W–BEAM (e)	16	6–5/8	416.6
1	EW–L10	LEG, STAIR LANDING	W14 x 22.0 W–BEAM (e)	6	11–1/2	215.6
28	EW–D1	DIAGONAL	5 x 5 x 5/16 L	15	5–11/16	159.4
32	EW–D2	DIAGONAL	5 x 5 x 5/16 L	17	2–9/16	177.3
16	EW–D3	DIAGONAL	5 x 5 x 5/16 L	19	11–9/16	205.6
4	EW–D4A	DIAGONAL	5 x 5 x 5/16 L	8	6–5/8	89.8
40	SP3	3/4ø SPACER	3/8 x 2–1/2 PL	0	2–1/2	0.7
4	EW–H1	MAIN HORIZONTAL	W14 x 22.0 W–BEAM	34	6–13/16	760.5
2	EW–H2	MAIN HORIZONTAL	W14 x 22.0 W–BEAM	39	11–7/8	879.8
1	EW–H3A	MAIN HORIZONTAL	W14 x 22.0 W–BEAM	7	1–3/4	157.2
2	EW–T1	TOP HORIZONTAL	W12 x 14.0 W–BEAM (e)	14	5	217.8
15	EW–T2	TOP HORIZONTAL	W12 x 14.0 W–BEAM (e)	14	5	208.2
1	EW–T3A	TOP HORIZONTAL	W12 x 14.0 W–BEAM (e)	20	11	321.5
1	EW–T5A	TOP HORIZONTAL	W12 x 14.0 W–BEAM (e)	20	11	319.0
1	EW–P1	STAIR LANDING	C8 x 13.75 CHANNEL (e)	11	11	447.2
2	EW–P2	LANDING MOUNT BRACKET	8 x 8 x 1/2 L	0	8	17.6
1	EW–P3	LANDING CHANNEL	C8 x 13.75 CHANNEL	3	7–3/4	50.1
2	EW–P4	LANDING BRACKET	5 x 3 x 1/4 L	0	5–1/4	2.9
8	EW–GR1	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
4	EW–GR2	2.3ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	578.0
2	EW–GR3	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	12	0	376.0
1	EW–GR4	2.3ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	12	0	288.8
1	EW–GR5	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
1	EW–GR6	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
1	EW–GR7	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	12	0	376.0
1	EW–GR8	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	12	0	316.3
1	EW–GR9	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
1	EW–GR10	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
1	EW–GR11A	0.9ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	6	4	62.3
1	EW–GR12A	1.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	6	4	199.5
1	EW–GR13A	1.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	6	4	165.6
1	EW–GR14	1.7ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	4	0	71.3
1	EW–GR15	1.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	4	0	125.3
1	EW–GR16	1.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	4	0	125.3
1	EW–GR17	2.7ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	4	0	125.3
1	EW–GR18	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
1	EW–GR19	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
1	EW–GR20	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
1	EW–GR21	3.0ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	24	0–1/4	752.7
1	EW–GR22	1.7ft WIDE, 19–W–4 GRATING	1–1/2 x 3/16 BEARING BARS (a)	5	6	96.3
1	EW–TP1	TOEBOARD	4 x 3 x 1/4 L	5	2	30.0
2	EW–TP2	TOEBOARD BACKSTRAP	1/4 x 2 PL	1	5–3/4	3.8
1	EW–BR1	GUARDRAIL POST BRACKET	4 x 4 x 3/8 L	0	5–5/8	4.6
4	EW–AM1	ANTENNA MOUNT CHANNEL	C10 x 15.3 CHANNEL (e)	26	11–9/16	434.1
4	EW–AM2	ANTENNA MOUNT CHANNEL	C10 x 15.3 CHANNEL (e)	23	11–7/8	388.9
2	EW–SM1	STAIR MOUNT BRACKET	5 x 3 x 3/8 L	0	3–3/4	3.1
2	EW–SM2	STAIR MOUNT BRACKET	3 x 3 x 3/8 L	0	10–3/4	6.5
2	EW–SM3	STAIR MOUNT BRACKET	3 x 3 x 3/8 L	0	3–3/4	2.3
2	EW–SM4	STAIR MOUNT BRACKET	5 x 3 x 3/8 L	0	7–1/2	6.1
24	EW–TR1	10–15/16" STAIR TREAD	19–W–4 GRATING, 1–1/2 x 3/16 B. BARS (a)	3	0	24.8
1	EW–TR2	9–3/4" STAIR TREAD	19–W–4 GRATING, 1–1/2 x 3/16 B. BARS (a)	3	0	22.2
1	EW–ST1L	LOWER STAIR STRINGER, LEFT	C10 x 15.3 CHANNEL	12	7–1/8	192.7
1	EW–ST1R	LOWER STAIR STRINGER, RIGHT	C10 x 15.3 CHANNEL	12	7–1/8	192.7
1	EW–ST2L	UPPER STAIR STRINGER, LEFT	C10 x 15.3 CHANNEL	16	0–3/16	245.0
1	EW–ST2R	UPPER STAIR STRINGER, RIGHT	C10 x 15.3 CHANNEL	16	0–3/16	245.0
1	EW–WG1	WG LADDER MOUNT	4 x 3 x 1/4 L	5	2–3/8	30.1
2	EW–WG2	WGL SUPPORT	2 x 2 x 3/16 L	3	0–1/4	7.4
2	SP2L	11/16ø SPACER, LIGHT	1/4 x 2 PL	0	2	0.3
2	EW–WGL1	WG LADDER RAIL	2 x 2 x 3/16 L	17	8–1/4	43.2
7	EW–WGL2	WGL BRACKET	2 x 2 x 3/16 L	5	1–5/8	12.5
2	EW–WGL3	WGL FOOTER	3 x 2 x 3/16 L	0	2	0.5
140	MARK	QUANTITIES REFLECT AN ADDITIONAL 10% (+2, MINIMUM)				
423	GG–1C	GRATING CLIP, 1–1/2" ø BARS	H.D.G.; SUPPLIER STOCK	–	----	0.25
50	–	3/4"ø BOLT	A325; H.D.G.	0	2–1/2	0.70
316	–	3/4"ø BOLT	A325; H.D.G.	0	2–1/4	0.66
366	–	3/4" HEAVY–HEX NUT	H.D.G.; SUPPLIER STOCK	–	----	0.29
366	–	3/4" JAM NUT	H.D.G.; SUPPLIER STOCK	–	----	0.17
366	–	3/4" FLAT WASHER	H.D.G.; SUPPLIER STOCK	–	----	0.05
6	–	3/4" BEVELED WASHER	H.D.G.; SUPPLIER STOCK	0	1–1/2	0.15
10	–	5/8" ANCHOR BOLT	HILTI–KWIK HUS–EX	0	6	0.80
112	–	5/8"ø TAP BOLT	Grade 5; H.D.G	0	4	0.58
10	–	5/8"ø BOLT	A325; H.D.G	0	2	0.41
218	–	5/8"ø BOLT	A325; H.D.G	0	1–3/4	0.39
464	–	5/8" HEAVY–HEX NUT	H.D.G.; SUPPLIER STOCK	–	----	0.17
238	–	5/8" JAM NUT	H.D.G.; SUPPLIER STOCK	–	----	0.11
224	–	5/8" FLAT WASHER	H.D.G.; SUPPLIER STOCK	–	----	0.04
35	–	1/2"ø BOLT	Grade 5; H.D.G	0	6	0.60
121	–	1/2"ø BOLT	A325; H.D.G	0	3–3/4	0.34
22	–	1/2"ø BOLT	A325; H.D.G	0	3–1/2	0.32
156	–	1/2"ø BOLT	A325; H.D.G	0	3	0.30
4	–	1/2"ø BOLT	A325; H.D.G	0	1–3/4	0.23
6	–	1/2"ø BOLT	A325; H.D.G	0	1–1/2	0.21
344	–	1/2" HEAVY–HEX NUT	H.D.G.; SUPPLIER STOCK	–	----	0.09
170	–	1/2" JAM NUT	H.D.G.; SUPPLIER STOCK	–	----	0.06
518	–	1/2" FLAT WASHER	H.D.G.; SUPPLIER STOCK	–	----	0.02
182	–	1/2" LOCK WASHER	H.D.G.; SUPPLIER STOCK	–	----	0.02
16	–	3/8"ø U–BOLT	A307; H.D.G.	3–1/2 I.D.		0.30
16	–	3/8"ø U–BOLT	A307; H.D.G.	2–1/2 I.D.		0.25
16	–	3/8"ø U–BOLT	A307; H.D.G.	1–1/2 I.D.		0.19
110	–	3/8"ø BOLT	GRADE 5; H.D.G.	0	1–1/2	0.09
16	–	3/8"ø BOLT	GRADE 5; H.D.G.	0	1–1/4	0.08
444	–	3/8" STD–HEX NUT	H.D.G.; SUPPLIER STOCK	–	----	0.02
110	–	3/8" FLAT WASHER	H.D.G.; SUPPLIER STOCK	–	----	0.01

18'–9" LOCALIZER PLATFORM ESTIMATED NET GALVANIZED SHIPPING WEIGHT = 56,425 lbs.

DRAWING INDEX

DRAWING No.	SHEET	DATE	REV	REV DATE	TITLE
4008–22–A00	---	09/23/22	A	11/08/22	DRAWING INDEX & GENERAL NOTES (THIS SHEET)
4008–22–A01	1 of 2	09/23/22	A	11/08/22	LOCALIZER PLATFORM FOUNDATION LAYOUT
4008–22–A01	2 of 2	09/23/22	A	11/08/22	FOUNDATION PIER DETAILS
[redacted]					
4008–22–A11	---	09/23/22	A	11/08/22	FINAL DIMENSIONAL OVERVIEW
[redacted]					

SWAGER COMMUNICATIONS INC.
P.O. BOX 1000, 501 E. SWAGER DR., FRANCIS, IN 46737

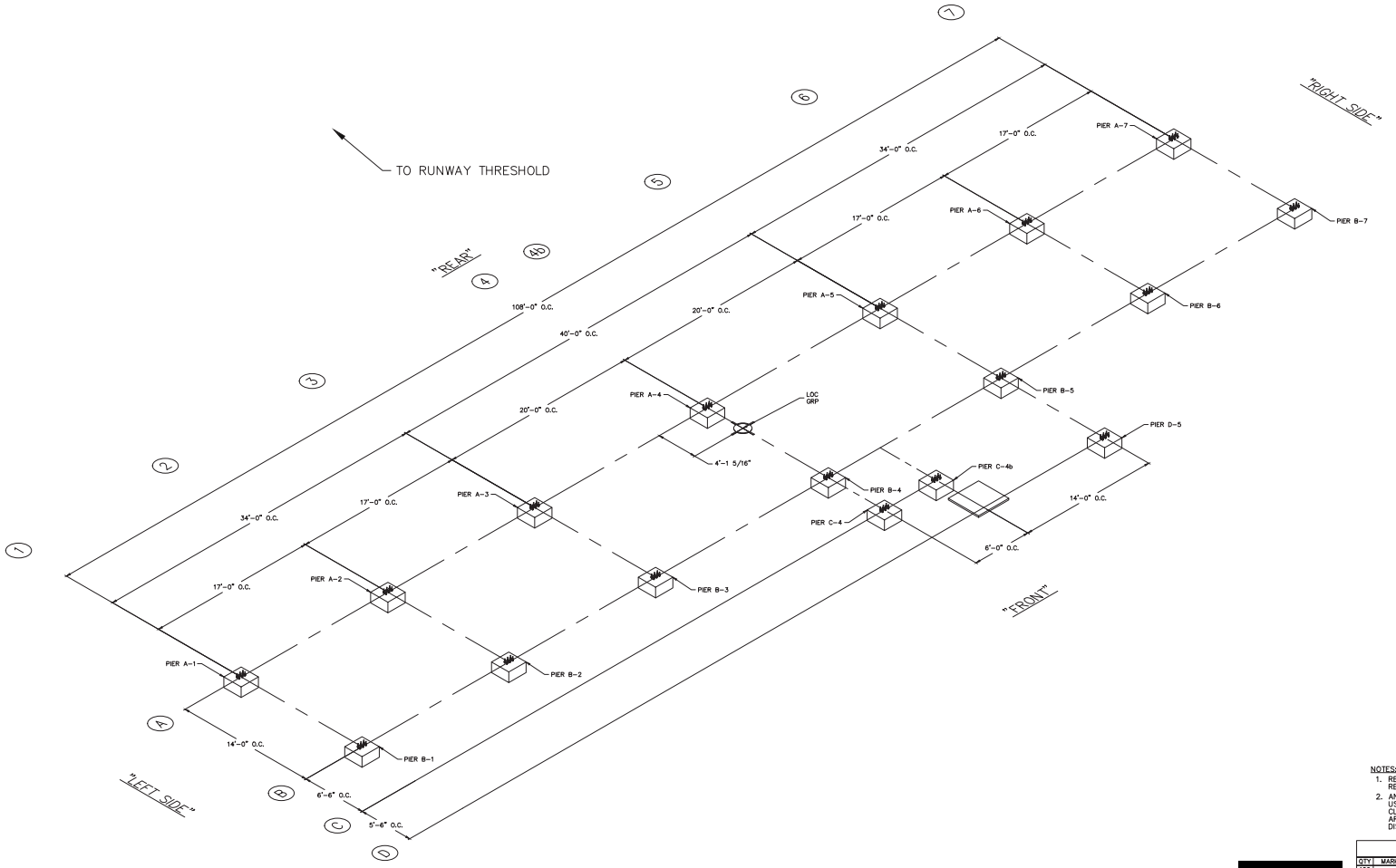
SCALE	DWN	J. NEFF
	APP'D	L.SWAGER

TITLE: MODEL: 18'–9" LOCALIZER PLATFORM
DRAWING INDEX & GENERAL NOTES

DATE: 09/23/22

DRAWING NUMBER: 4008–22–A00

LET	REVISION	DATE	APP'D
–	INITIAL RELEASE	09/23/22	L.S.
A	CORRECTED ROW "C" PIERS	11/08/22	L.S.



LOCALIZER PLATFORM FOUNDATION LAYOUT
SEE NOTE #1

NOTES:
1. REFER TO SHEET 2 of 2, FOR TYPICAL FOUNDATION PIER & REBAR DETAILS.
2. ANCHOR BOLT TEMPLATE Mk EW-ABT (NOT SHOWN) SHALL BE USED TO INSURE ALIGNMENT & ORIENTATION OF ANCHOR BOLT CLUSTERS DURING CONCRETING OPERATIONS. TEMPLATES ARE NOT STRUCTURAL, AND SHALL BE REMOVED AND DISCARDED BEFORE INSTALLATION OF THE LOCALIZER'S LEGS.

BILL OF MATERIALS

QTY	MARK	DESCRIPTION	MATERIAL	NUMBER PER UNIT	NUMBER PER ASSEMBLY	WT-EA
102	–	1/2"ø ANCHOR BOLT	F1554-52, S5 Gr. 105; H.D.G.	3	0	2.00
204	–	1/2" HEAVY-HEX NUT	H.D.G.; SUPPLIER STOCK	–	----	0.09
17	EW-BP	ANCHOR BOLT BEARING PLATE	3/8 x 10 PL	1	4	17.02
17	EW-ABT	ANCHOR BOLT TEMPLATE	1/4 x 10 PL	1	4	11.34
		ESTIMATED NET GALVANIZED SHIPPING WEIGHT = 729 lbs.				

[redacted]

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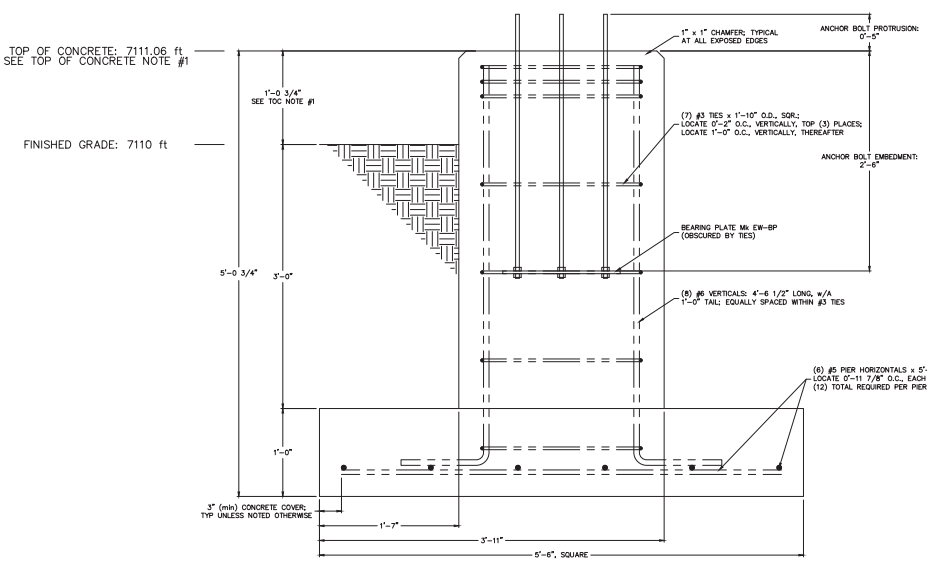
SWAGER COMMUNICATIONS INC.
P.O. BOX 606; 501 E. SWAGER DR.; TROUNT, IN 46787

[redacted] SCALE 1:64 | DWN J. NEFF | APP'D L.SWAGER

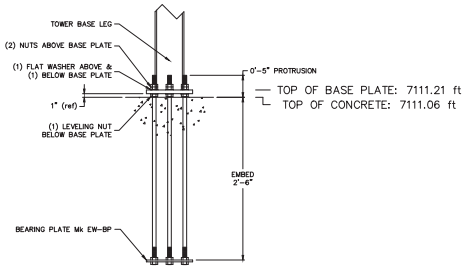
TITLE MODEL: 18-9' LOCALIZER PLATFORM
LOCALIZER PLATFORM FOUNDATION LAYOUT

DATE 09/23/22 | DRAWING NUMBER 4008-22-A01 (1of2)

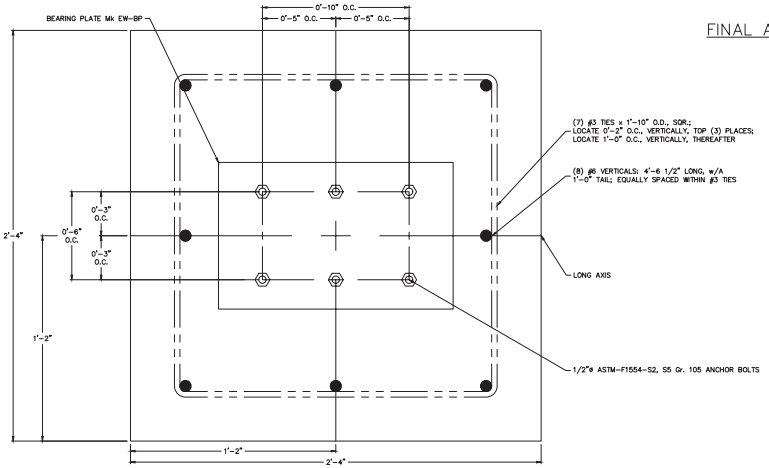
LET	REVISION	DATE	APP'D
–	INITIAL RELEASE	09/23/22	L.S.
A	CORRECTIONS FROM FAA MARK-UP	11/08/22	L.S.



TYPICAL PIER ELEVATION
TYPICAL (17) PLACES
SCALE = 1:8



FINAL ANCHOR BOLT INSTALLATION
NOT TO SCALE
SEE NOTE #4



TYPICAL PIER CROSS-SECTION
TYPICAL (17) PLACES
SCALE = 1:4

TOP OF CONCRETE NOTES:

1. CONTRACT DRAWINGS REPRESENT "TOP OF CONCRETE" AS THE TOP OF THE BASE PLATE AND NOT THE ACTUAL TOP OF CONCRETE. ELEVATIONS PROVIDED ON THIS SHEET CLEARLY PROVIDE BOTH THE TOP OF THE BASE PLATES AND THE ACTUAL TOP OF CONCRETE.

EXCAVATION AND EARTHWORK:

1. THE BEARING VALUES OF THE SOIL HAS BEEN ASSUMED BASED UPON EXISTING CONTRACT DRAWINGS FOR THIS LOCATION. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING BEARING PRESSURE: SPREAD FOOTINGS = 2,000psf.
2. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED, PRIOR TO CONCRETE PLACEMENT, BY A SOILS ENGINEER OR GOVERNMENT REPRESENTATIVE TO VERIFY SUITABLE BEARING MATERIAL OF CAPACITY, AS SPECIFIED.
3. NOTIFY THE GOVERNMENT'S REPRESENTATIVE WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL.
4. THE SOILS ENGINEER OR GOVERNMENT REPRESENTATIVE SHALL CERTIFY, IN WRITING, THAT ALL FOUNDATIONS WERE PLACED ON SOIL WITH THE BEARING VALUE, AS SPECIFIED.
5. WITHIN THE EXCAVATION AREA OF THE FOUNDATIONS, ALL VEGETATION, TOPSOIL, PREVIOUSLY PLACED FILL AND UNSUITABLE SOILS SHALL BE REMOVED. ALL FOOTINGS SHALL BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERING FILL.

CONCRETE NOTES:

1. ALL CONCRETE WORK INCLUDING FORMING, REINFORCING, MIXING, PLACING AND CURING SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE INCLUDING "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301.
2. FOLLOW RECOMMENDATIONS OF ACI 305R WHEN CONCRETING DURING HOT WEATHER OR ACI 305R WHEN CONCRETING DURING COLD WEATHER.
3. ALL CONCRETE SHALL ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH, AS SPECIFIED, AT 28 DAYS. CONCRETE SHALL BE VIBRATED INTO FORMS WHILE PLACING, WITHOUT OVER-VIBRATING. REINFORCING SHALL BE PROTECTED BY CONCRETE, AS FOLLOWS: FOOTINGS = 3"
4. CONCRETE MATERIALS SHALL BE AS FOLLOWS:
   CEMENT PER ASTM C150, NORMAL PORTLAND TYPE I/II
   FINE AND COARSE AGGREGATES PER ASTM C22
   FLY ASH TYPE F PER ASTM A618
   WATER SHALL BE CLEAN AND NOT DETRIMENTAL TO CONCRETE
   ADMIXTURES OTHER THAN AIR ENTRAINMENT AND WATER REDUCING ARE NOT PERMITTED WITHOUT APPROVAL BY THE ARCHITECT AND ENGINEER
   AIR ENTRAINMENT ADMIXTURE SHALL BE PER ASTM C260 AND WATER REDUCER SHALL BE TYPE A PER ASTM C494.
5. CONCRETE MIX DESIGN:
   CONCRETE FOR FOOTINGS:
   A. COMPRESSIVE STRENGTH, WHEN TESTED IN ACCORDANCE WITH ASTM C39/C AT 28 DAYS: 4,000psi
   B. CONCRETE WEIGHT: NORMAL (144 lbs. PER CUBIC FOOT)
   C. FLY ASH CONTENT: MAXIMUM 25% OF CEMENTITIOUS MATERIALS BY WEIGHT
   D. CEMENT CONTENT: MINIMUM 520 lbs. PER CUBIC YARD
   E. WATER-CEMENT RATIO: 0.50 MAXIMUM
   F. TOTAL AIR CONTENT: 3% NATURALLY OCCURING PER ASTM C173
   G. MAXIMUM SLUMP: 3" ± 1"
   H. MAXIMUM AGGREGATE SIZE: 1-1/2"
   I. WATER REDUCING AGENT IS REQUIRED
6. PLACING CONCRETE:
   PLACE CONCRETE IN ACCORDANCE WITH ACI 304R. DO NOT ADD WATER TO CONCRETE DURING TRANSPORT, DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT UNLESS APPROVED BY RESIDENT ENGINEER OR PROJECT MANAGER. PLACE CONCRETE IN A CONTINUOUS OPERATION AND WITHOUT SEGREGATION. ENSURE REINFORCEMENT INSERTS, WATERSTOPS, EMBEDDED PARTS, AND FORMED CONSTRUCTION JOINT DEVICES WILL NOT BE DISTURBED DURING CONCRETE PLACEMENT. SEPARATE SLABS ON GRADE FROM VERTICAL SURFACES WITH JOINT FILLER. SLABS ON GRADE SHALL BE PLACED IN CONTINUOUS STRIPS PER ACI RECOMMENDATIONS. THE MAXIMUM POUR AREA SHALL NOT EXCEED 3,600 SQUARE FEET. ALLOW 24 HOURS TO ELAPSE BETWEEN THE PLACEMENT OF ADJACENT STRIPS. POUR IN ALTERNATING STRIP PATTERN SO THAT NO TWO ADJOINING SLABS ARE POURED THE SAME DAY. MAINTAIN RECORDS OF CONCRETE PLACEMENT. RECORD DATE, LOCATION, QUANTITY, AIR TEMPERATURE, AND TEST SAMPLES TAKEN. SAW CUT JOINTS WITHIN 24 HOURS OF PLACING. USE 3/16" THICK BLADE, CUT INTO 1/4 DEPTH OF SLAB THICKNESS. IF NO SPACING OF JOINTS IS INDICATED ON DRAWINGS, PLACE JOINTS AT A MAXIMUM SPACING OF 15 FEET IN EACH DIRECTION.
7. ALL ANCHOR RODS (ANCHOR BOLT CLUSTERS) SHALL BE IN PLACE PRIOR TO POURING OF CONCRETE.
8. CURING AND PROTECTION:
   COMPLY WITH REQUIREMENTS OF ACI 308 UNLESS EXCEEDED HEREIN. IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY.
   CONCRETE SLAB CURING:
   A. WET CURE ALL CONCRETE SLABS FOR A MINIMUM OF 7 DAYS. COMPLETELY COVER POUR AREA WITH MOISTURE RETAINING COVER AND PROTECT AGAINST MOVEMENT. KEEP MOISTURE RETAINING COVER CONTINUOUSLY MOIST FOR FULL 7 DAY PERIOD. DO NOT PERMIT LOADING OR PARTIAL LOADING CAUSED BY VEHICLE TRAFFIC OR MATERIAL PLACEMENT DURING THIS PERIOD.
   B. IN NO CASE SHALL LIQUID CURING COMPOUND BE USED WHERE COMPOUND MAY BE INCOMPATIBLE WITH FLOOR FINISH MATERIALS.
9. FIELD QUALITY CONTROL:
   AN INDEPENDENT TESTING AGENCY WILL PERFORM FIELD QUALITY CONTROL TEST. PROVIDE FREE ACCESS TO CONCRETE OPERATIONS AT PROJECT SITE AND COOPERATE WITH APPOINTED FIRM. CONTRACTOR MUST PROVIDE MINIMUM 48 HOURS NOTICE TO TESTING AGENCY AND ARCHITECT PRIOR TO ALL CONCRETE POURS. FOR EACH TEST, MOLD AND CURE THREE CONCRETE TEST CYLINDERS. OBTAIN TEST SAMPLES FOR EVERY 50 CU. YARDS OR LESS OF EACH CLASS OF CONCRETE PLACED. OBTAIN REPRESENTATIVE SAMPLES OF FRESH CONCRETE IN ACCORDANCE WITH ACI C172. PERFORM COMPRESSION STRENGTH TEST PER ASTM C39/C39M. BREAK ONE CYLINDER AT 7 DAYS AND TWO CYLINDERS AT 28 DAYS. TAKE ONE ADDITIONAL TEST DURING COLD WEATHER CONCRETING, CURED ON JOB SITE UNDER SAME CONDITIONS AS THE CONCRETE IT REPRESENTS. RECORD AMBIENT TEMPERATURE AT THE TIME OF CONCRETE SAMPLING.
10. ALL EXTERIOR EXPOSED CONCRETE TO HAVE 6%, +1% -OR- -1.5% ENTRAINED AIR.
11. CONCRETE REINFORCEMENT:
    A. THE REINFORCING STEEL CONTRACTOR SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ACCESSORIES, CHAIRS, SPACER BARS AND SUPPORT NECESSARY TO SECURE THE REINFORCEMENT UNLESS OTHERWISE SHOWN ON THE PLANS AND/OR DETAILS.
    B. REINFORCING STEEL SHALL BE ASTM-A615, GRADE 60.
    C. CONCRETE REINFORCEMENT SHALL BE PLACED ACCORDING TO CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".
    D. ALL REINFORCEMENT SPLICES SHALL BE LAPPED 48 BAR DIAMETERS, MINIMUM, UNLESS OTHERWISE NOTED.

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SWAGER COMMUNICATIONS INC.
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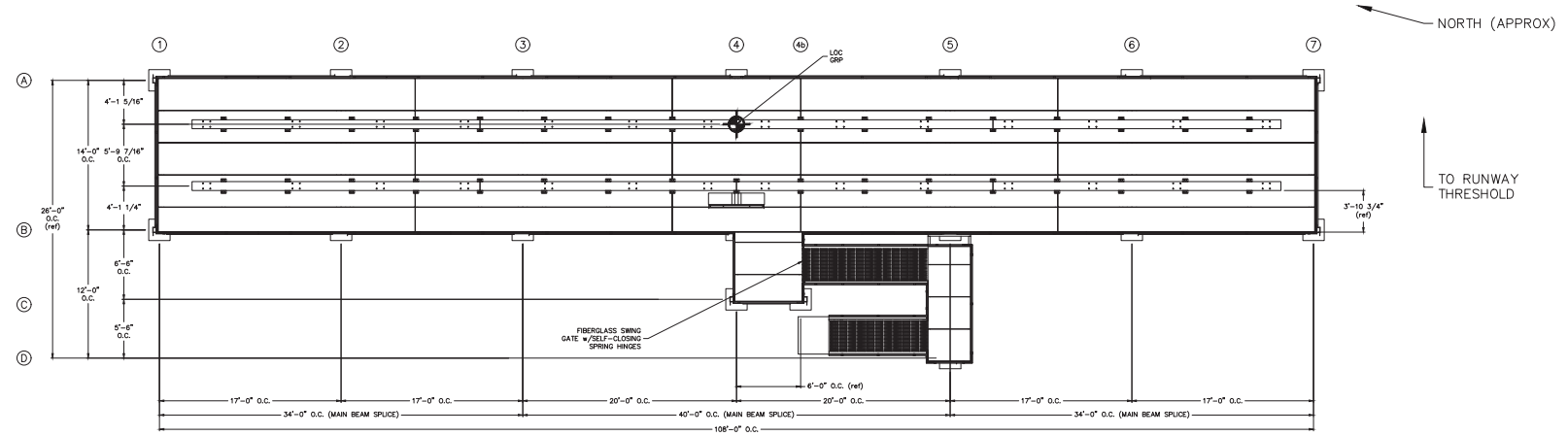
SCALE	DWN
[redacted] NOTED	J. NEFF
	APP'D L.SWAGER

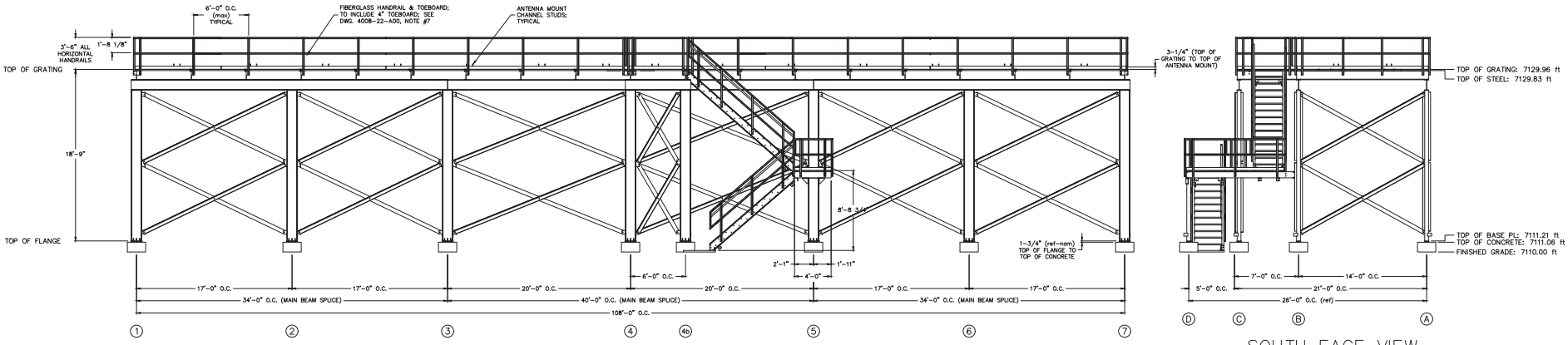
TITLE: MODEL: 18-9 LOCALIZER PLATFORM
FOUNDATION PIER & REBAR DETAILS

DATE	DRAWING NUMBER
09/23/22	4008-22-A01 (2of2)

LET	REVISION	DATE	APP'D
–	INITIAL RELEASE	09/23/22	L.S.
A	CORRECTED ROW "C" PIERS	11/08/22	L.S.



PLAN VIEW



WEST FACE ELEVATION

SOUTH FACE VIEW

[redacted]

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[redacted]

SCALE 1:64 | DWN J. NEFF | APP'D L.SWAGER

TITLE MODEL: 18-9 LOCALIZER PLATFORM
FINAL DIMENSIONAL OVERVIEW

DATE 09/23/22 | DRAWING NUMBER 4008-22-A11