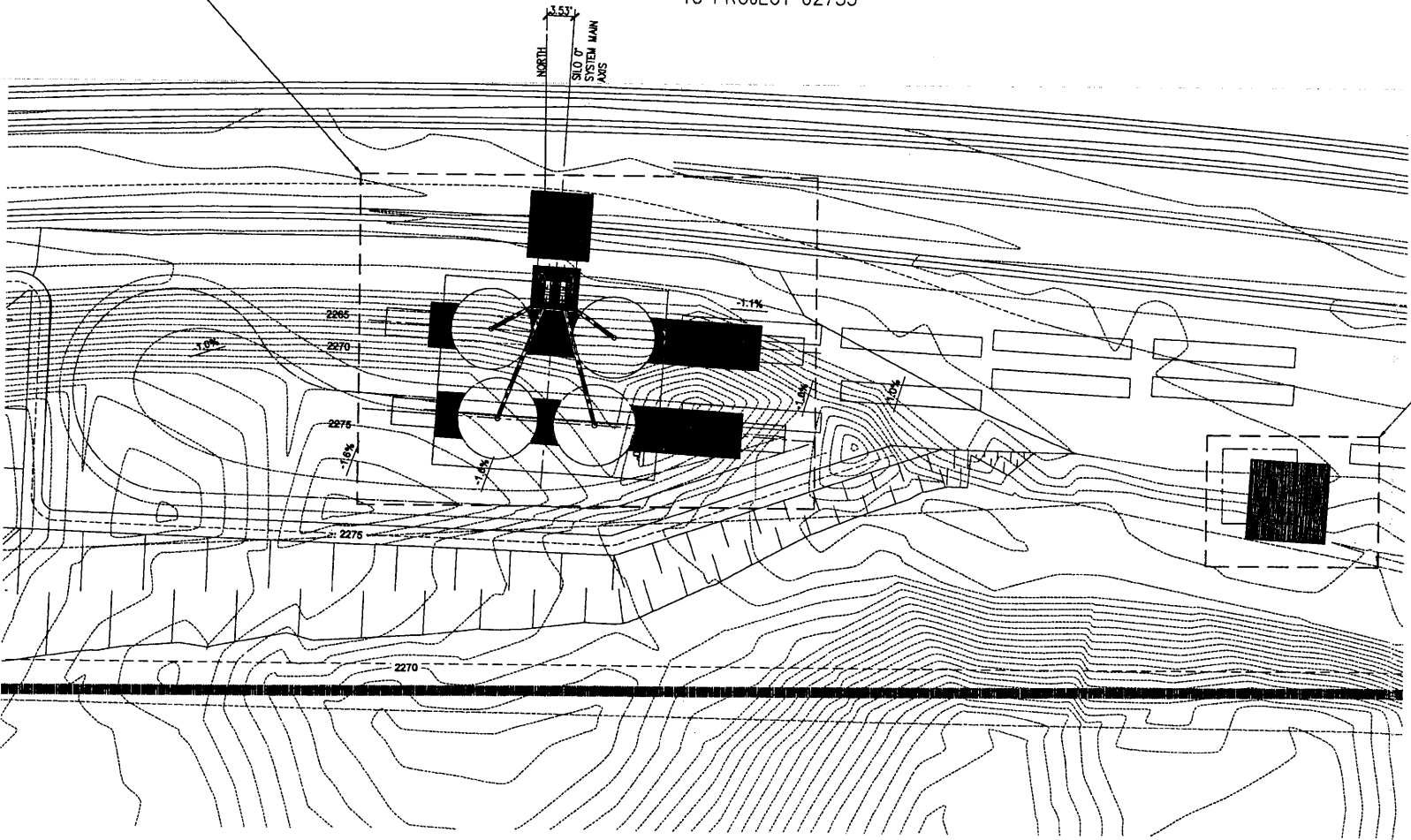


INDUSTRIAL SAND SYSTEM
BLAISDELL, ND



TC PROJECT 02753

NEW SAND STORAGE AND HANDLING SYSTEM
 RE: 100 SERIES DRAWINGS

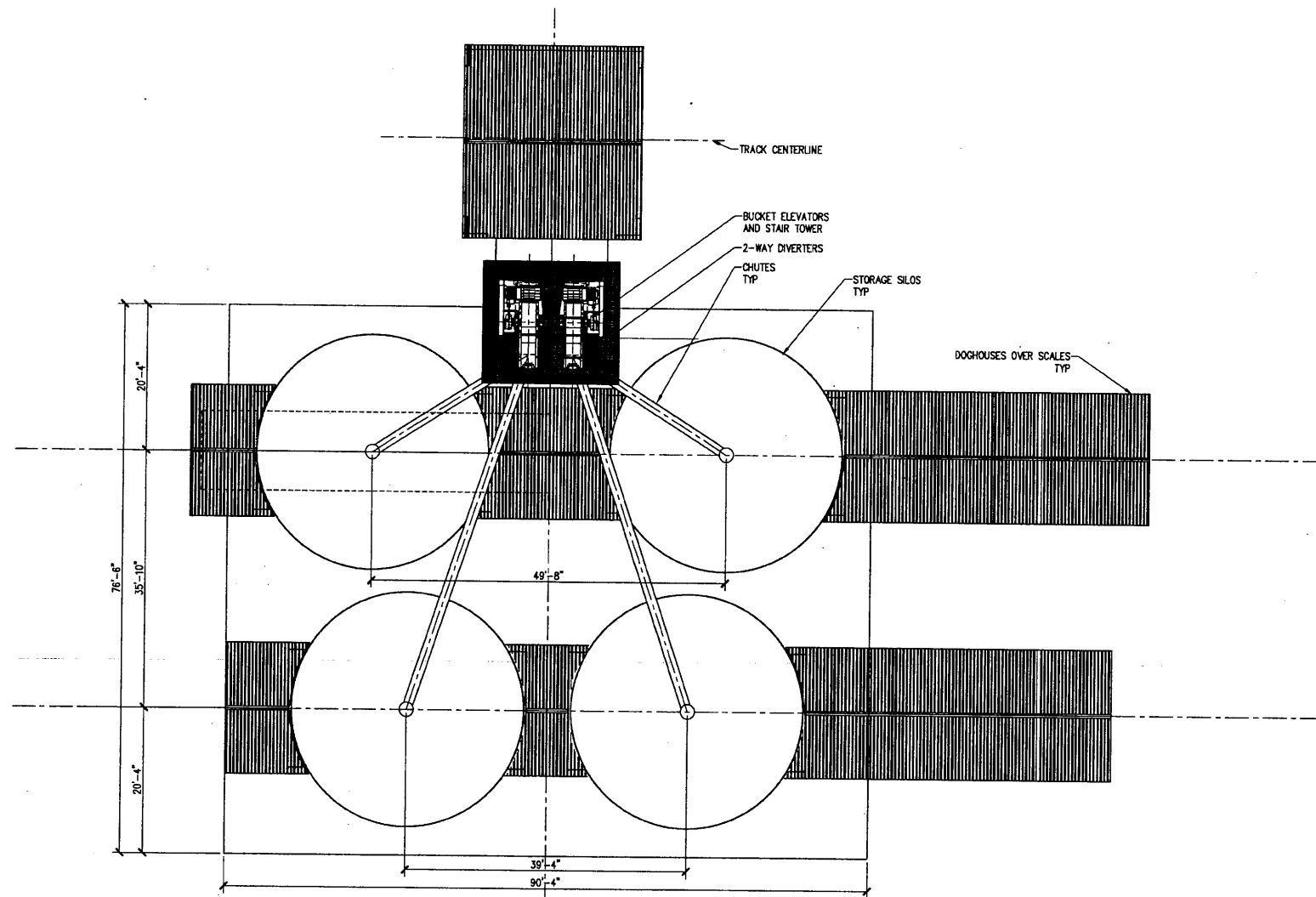


NEW CONTROL/MAINTENANCE BUILDING
 RE: 200 SERIES DRAWINGS

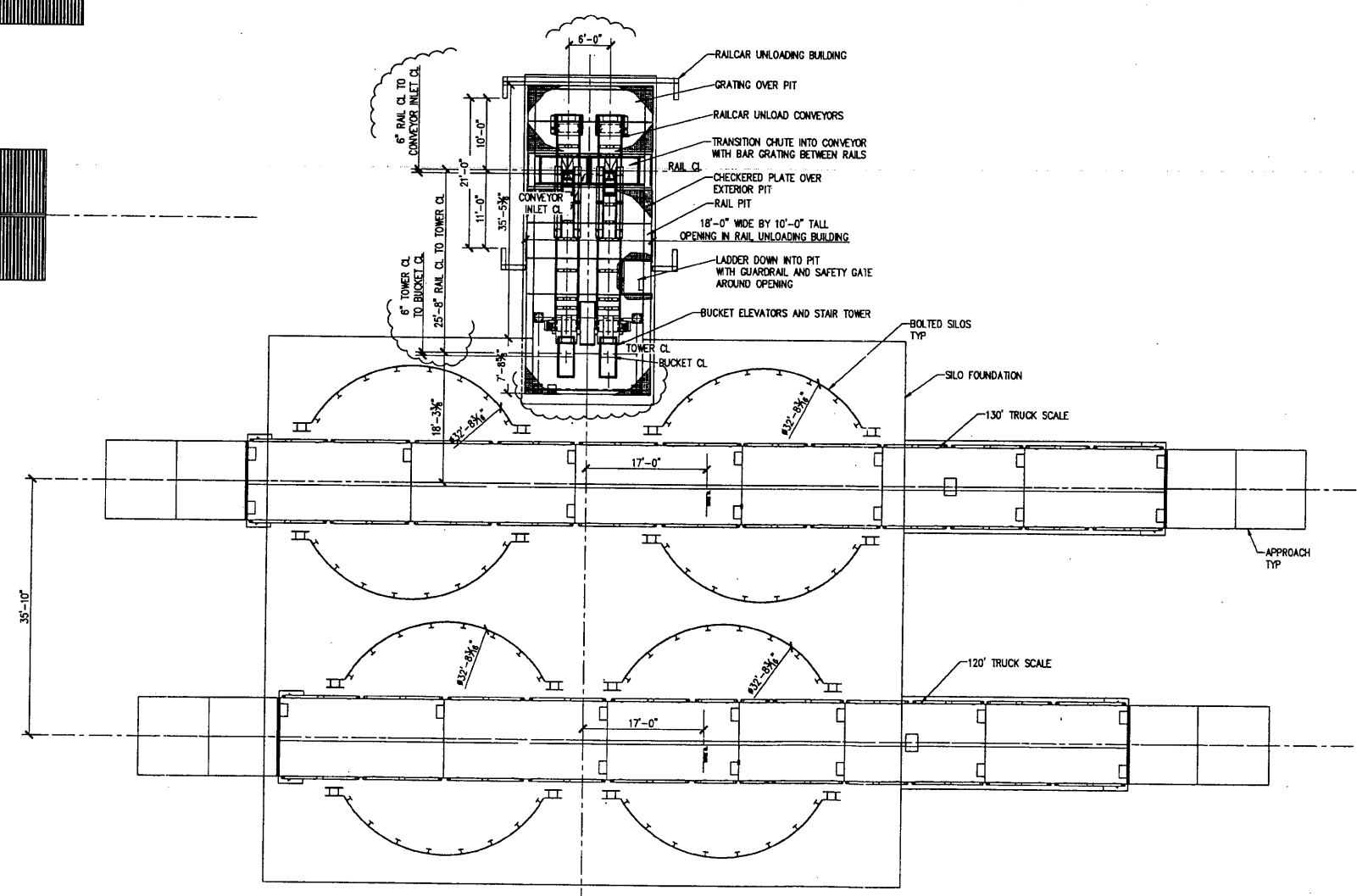
1 SITE PLAN 1/32

02753 FM Blaisdell 121217.dwg

TOTAL WT:		PARENT:		THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF TANK CONNECTION AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF TANK CONNECTION.		4 CLARIFICATIONS		12/17/12	RS	RS	CUSTOMER NAME: FAIRMOUNT MINERALS		FOR REVIEW	
"DO NOT SCALE" DRAWING IN INCHES		TOLERANCES UNLESS OTHERWISE NOTED		MANUFACTURER AND/OR ITS AFFILIATE, ANY OTHER USER, RETRIEVAL, TRANSMISSION, OR REPRODUCTION OF THIS DOCUMENT IS STRICTLY PROHIBITED, WITHOUT THE WRITTEN CONSENT OF TANK CONNECTION.		1 LOCATED CONTROL/MANT BLDG		8/1/12	RS	RS	PROJECT NAME: BLAISDELL SAND SYSTEM		FRAC SYSTEM 5' SETBACK SKETCH	
ANGULAR DEVIATION X = ±1.0° / XX = ±0.5°		PERMISSIBLE DEVIATION NOMINAL LENGTH (IN INCHES)		240"		2 SHOWS APPROACHES		8/9/12	RS	RS	PROJECT LOCATION: BLAISDELL, ND		PROJ # 02753 JOB # NA	
3RD ANGLE PROJECTION		LINEAR TOLERANCE		1/32" 1/16" 5/32" 1/8" 3/16" 1/16"		1 ADJUSTED SCALES AND BLDG		5/22/12	RS	RS	DWG # GA02753001		SCALE: N/A	
HOLE TO HOLE TOLERANCE		1/32" 1/32" 1/32" 1/16" 1/16"		5 FOR REVIEW		DATE		8/16/12	RS	RS				

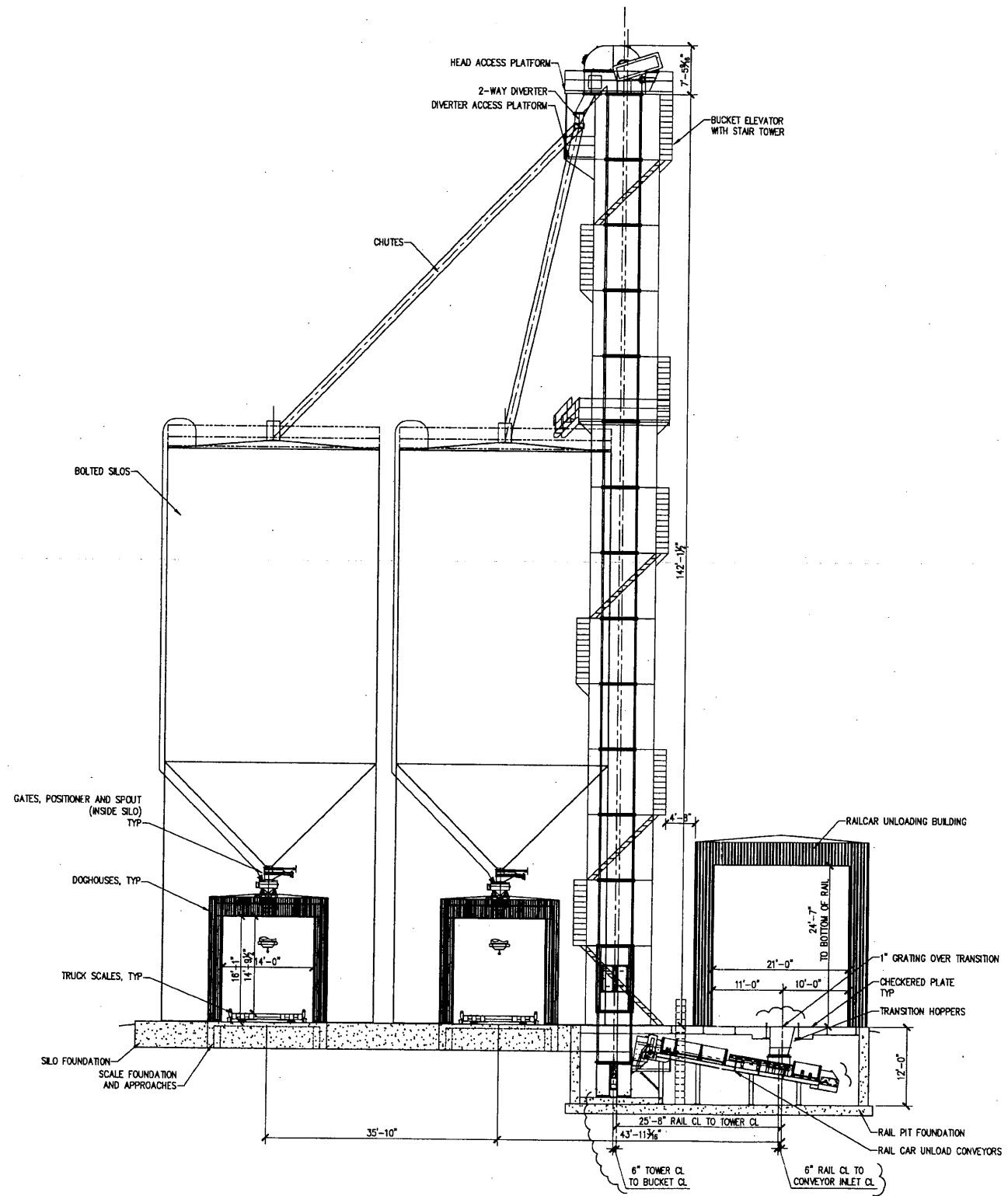


1 ROOF PLAN 3/32



2 BASE PLAN 3/32

TOTAL WT: "AS NOTED" DRAWING IN INCHES AMERICAN Y&L STANDARDS 3RD ANGLE PROJECTION		PARENT: TOLERANCES UNLESS OTHERWISE NOTED ANGULAR DEVIATION $X \pm 1.0^\circ / X, X = 20.5^\circ$ PERMISSIBLE DEVIATION NOMINAL LENGTH IN INCHES 0 - 4" 4" - 48" 48" - 130" 130" - 240" 240" + LINEAR TOLERANCE: 1/32" 1/16" 5/32" 1/8" 3/16" HOLE TO HOLE TOLERANCE: 1/32" 1/32" 1/32" 1/16" 1/16"		THE INFORMATION ON THIS DOCUMENT IS CONFIDENTIAL PROPERTY OF TANK CONNECTION AND/OR ITS APPLICABLE MANUFACTURER. RETENTION, DISSEMINATION, REPRODUCTION, PRINTING OR COPYING OF THIS DOCUMENT TO UNAUTHORIZED PARTIES IS STRICTLY PROHIBITED. WITHOUT THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER.		TANK CONNECTION AFFILIATE BRIGGS 4000 W. 11TH ST. - F.O. BOX 20200 OMAHA, NE 68120		5 CLARIFICATIONS 12/17/12 RB BB 4 BUCKET/CONVEYOR LOCATION 9/20/12 RB BB 3 CLARIFICATIONS 8/8/12 RB BB 2 BUILDING PIT EQUIPMENT 8/22/12 RB BB 1 ADJUSTED SCALES AND BLDG 8/18/12 RB BB 0 FOR REVIEW		CUSTOMER NAME: FAIRMOUNT MINERALS PROJECT NAME: BLAISDELL SAND SYSTEM PROJECT LOCATION: BLAISDELL, ND		FOR REVIEW SYSTEM PLAN VIEWS PROJ # 02753 JOB # NA DWG # GA02753101	
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1 EAST ELEVATION/SECTION 3/32

TOTAL WT:	PARENT:	TOLERANCES UNLESS OTHERWISE NOTED
"DO NOT SCALE" DRAWING IN INCHES ANSI/ASME Y14.1 STANDARDS	ANGULAR DEVIATION: X = ±1.0° / X-X = ±0.5°	PERMISSIBLE DEVIATION NOMINAL LENGTH IN INCHES 0 - 4" 4" - 48" 48" - 130" 130" - 240" 240" +
3RD ANGLE PROJECTION	LINEAR TOLERANCE: HOLE TO HOLE TOLERANCE:	1/32" 1/16" 5/32" 1/8" 3/16" 1/32" 1/32" 1/32" 1/16" 1/16"

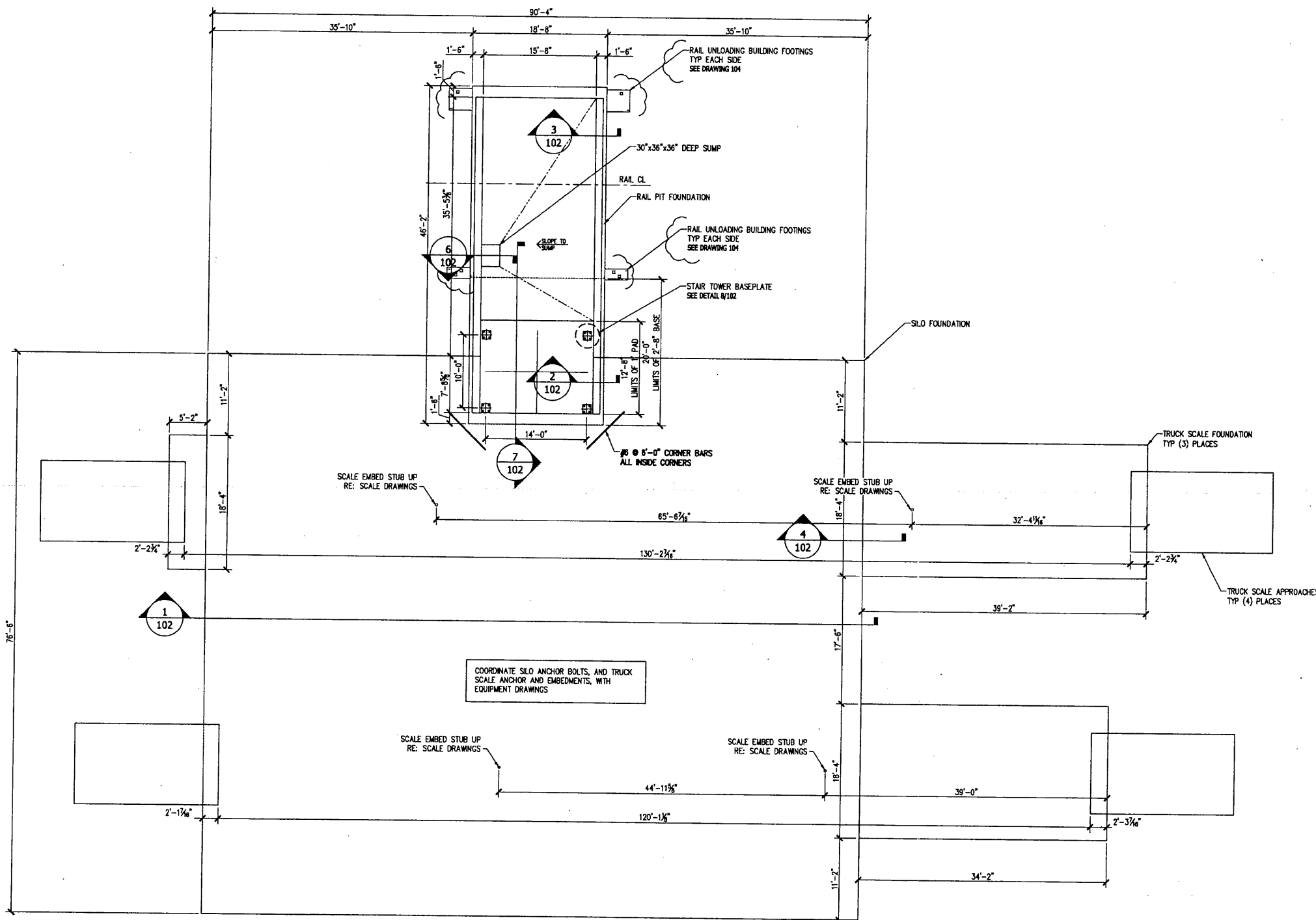
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TANK CONNECTION
AFFILIATE GROUP
300 N. 10th St. • PO BOX 10000 • MINNAPOLIS, MN 55404

1	CLARIFICATIONS	12/17/12	RS	RS
2	BUCKET/CONVEYOR MOVE	9/20/12	RS	RS
3	RAIL BUILDING CLEARANCE	8/8/12	RS	RS
4	RAIL BUILDING CLEARANCE	6/8/12	RS	RS
5	PIT EQUIPMENT	6/9/12	RS	RS
6	ADJUSTED SCALES AND BLDG	5/23/12	RS	RS
7	FOR REVIEW	9/18/12	RS	RS
REV	REVISION DESCRIPTION	DATE	DRAWN BY	CHECKED BY

CUSTOMER NAME:	FAIRMOUNT MINERALS
PROJECT NAME:	BLAISDELL SAND SYSTEM
PROJECT LOCATION:	BLAISDELL, ND

FOR REVIEW	SYSTEM ELEVATIONS AND SECTIONS	PROJ #	02753	JOB #	NA
		DWG #	GA02753102		



1 FOUNDATION PLAN
1/8

NOTES:

- UNLESS OTHERWISE NOTED OR SPECIFIED, ALL STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
- REINFORCEMENT STEEL SHALL BE DEFORMED BARS CONFORMING IN QUALITY TO THE REQUIREMENTS OF ASTM A-615, "SPECIFICATIONS FOR DEFORMED BUILT-UP STEEL BARS FOR CONCRETE REINFORCEMENT", GRADE 60.
- ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE INDICATED, SHALL BE IN ACCORDANCE WITH ACI-315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.
- TOLERANCES IN PLACING REINFORCEMENT SHALL BE:
 - ± 3/8 INCH FOR MEMBERS WITH D ≤ 8 INCHES
 - ± 1/2 INCH FOR MEMBERS WITH D > 8 INCHES
- ALL CONSTRUCTION JOINTS, SHALL BE ROUGH AND THOROUGHLY CLEANED FOR BOND.
- LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
- DOWELS, PIPE, WATERSTOPS AND OTHER INSTALLED MATERIALS AND ACCESSORIES SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS:
 - FOR CONCRETE PLACED AGAINST EARTH SEE CONSTRUCTION JOINT DETAILS FOR THIN SLABS-ON-GRADE. BOTTOM COVER MAY BE LESS THAN 3" IF SO INDICATED.
 - FOR SURFACES IN CONTACT WITH WATER OR WEATHER AND FORMED SURFACES IN CONTACT WITH EARTH 3"
 - FOR CONCRETE NOT EXPOSED TO WEATHER, OR IN CONTACT WITH WATER OR EARTH 2"
 - MAXIMUM WATER TO CEMENT RATIO FOR MIX DESIGN SHALL BE 0.45
 - ALL GROUT SHALL BE NON-SHRINK GROUT, UNLESS INDICATED OTHERWISE.
- METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUBGRADE. CONCRETE BLOCKS (OR DOBIES) SUPPORTING BARS ON SUBGRADE SHALL BE IN SUFFICIENT NUMBERS TO SUPPORT THE BARS WITHOUT SETTLEMENT, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS.
- DOWELS SHALL BE WIRED OR OTHERWISE HELD IN POSITION. THEY SHALL NOT BE SHOWN INTO FRESHLY PLACED CONCRETE.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS, LAPS, HOOKS OF AND EMBEDMENT OF REINFORCEMENT SHALL PER THE TABLE ON THIS SHEET.
- REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH PIPE, PIPE FLANGE OR METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM OF 2 INCHES CLEARANCE SHALL BE PROVIDED AT ALL TIMES.
- ALL ITEMS EMBEDDED IN CONCRETE SHALL BE SPACED ON CENTER AT LEAST 4 TIMES THEIR OUTSIDE DIMENSION. THE OUTSIDE DIMENSION SHALL NOT EXCEED ONE THIRD OF THE MEMBER THICKNESS.
- ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A 1" CHAMFER UNLESS NOTED OTHERWISE.
- ANCHOR BOLTS SHALL BE PLACED WITHIN 1/4" OF THE MANUFACTURER'S ANCHOR BOLT LAYOUT - IF REQUIRED.
- CONCRETE DELIVERED TO THE SITE MUST MEET THE TEMPERATURE REQUIREMENTS OF ASTM C94.
- ALL TOP SOIL, VEGETATION, AND OTHER DELETERIOUS MATERIALS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL.
- A QUALIFIED GEOTECHNICAL ENGINEER SHALL EVALUATE THE EXPOSED SOILS AND SUBGRADE PREPARATION PRIOR TO POURING CONCRETE TO ENSURE COMPLIANCE WITH THE GEOTECHNICAL RECOMMENDATIONS.
- A MINIMUM OF 3 CONCRETE TEST CYLINDERS SHALL BE PROVIDED AT THE TIME OF CONCRETE PLACEMENT AND STRENGTH SHALL BE VERIFIED BY A QUALIFIED TESTING LAB.
- SUBGRADE REQUIREMENTS PER GEOTECHNICAL REPORT SEE GEOTECHNICAL REPORT (GZA GEOTECHNICAL 5 10 12) FOR COMPACTION ASSUMED ALLOWABLE BEARING PRESSURE = 3500 PSF
- 1/2" STRUCTURAL FILL SHALL BE PLACED IN 6" MAXIMUM LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DEFINED BY THE MODIFIED PROCTOR TEST (ASTM D1557).

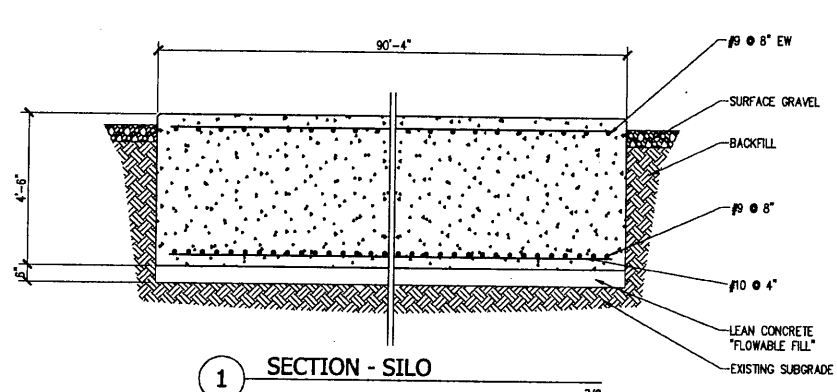
NOTES ON REINFORCING DEVELOPMENT TABLE:

- USE LAP LENGTHS AS DETERMINED FROM THESE TABLES UNLESS SHOWN OTHERWISE.
- THE TABLES SHOWN ARE FOR $f_c=4000\text{psi}$, $f_y=60,000\text{psi}$, 1.5" MIN CONCRETE COVER AND 3" MIN BAR SPACING.
- MULTIPLY THE LAP AND E SHOWN IN THESE TABLES BY 1.5 FOR EPOXY COATED REINFORCING.
- WHEN BARS OF DIFFERENT SIZES ARE LAP SPICED, LAP LENGTH SHALL BE THE LARGER OF:
 - EMBEDMENT LENGTH OF LARGER BAR
 - LAP LENGTH OF SMALLER BAR
- UNLESS NOTED OTHERWISE USE REBAR COUPLERS FOR SPLICES OF #11 AND LARGER BARS.
- ALL DOWEL BARS SHALL EXTEND AN EMBEDMENT LENGTH E INTO ANOTHER MEMBER OR ACROSS A CONSTRUCTION JOINT UNLESS SHOWN TO SPLICE WITH OTHER BARS OR TO EXTEND TO THE FAR FACE OF THE MEMBER AND END WITH A STANDARD HOOK.

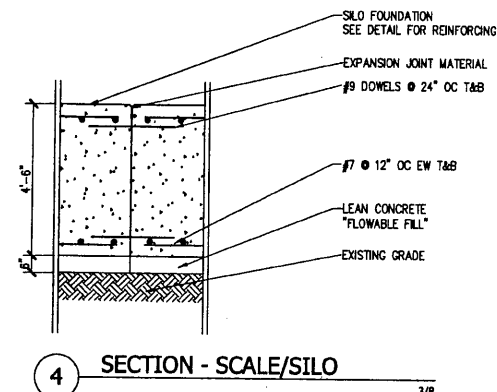
BAR SIZE	HOOK LENGTH	LAP	EMBEDMENT E
#3	6"	16" (21")	12" (16")
#4	8"	16" (21")	12" (16")
#5	10"	20" (26")	15" (20")
#6	12"	28" (37")	22" (28")
#7	14"	48" (62")	37" (48")
#8	16"	62" (81")	48" (62")
#9	19"	79" (102")	61" (79")
#10	22"	100" (130")	77" (100")
#11	24"	123" (160")	95" (123")

* USE LENGTH IN PARENTHESIS FOR WALL HORIZONTAL REBARS AND SLAB BARS WITH 12" OR MORE OF FRESH CONCRETE UNDERNEATH

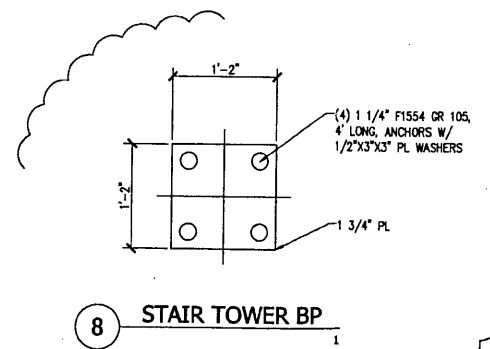
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DO NOT SCALE - DRAWING IN INCHES	ANGULAR DEVIATION: X = ±1.0° / XX = ±0.5°	TOLERANCES UNLESS OTHERWISE NOTED	PERMISSIBLE DEVIATION NOMINAL LENGTH IN INCHES	1/32"	1/16"	5/32"	1/8"	3/16"	1/8"	1/16"	1/16"	1/8"
3RD ANGLE PROJECTION	HOLE TO HOLE TOLERANCE: 1/32"	1/32"	1/32"	1/32"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"
1	2	3	4	5	6	7	8	9	10	11	12	13
1	2	3	4	5	6	7	8	9	10	11	12	13



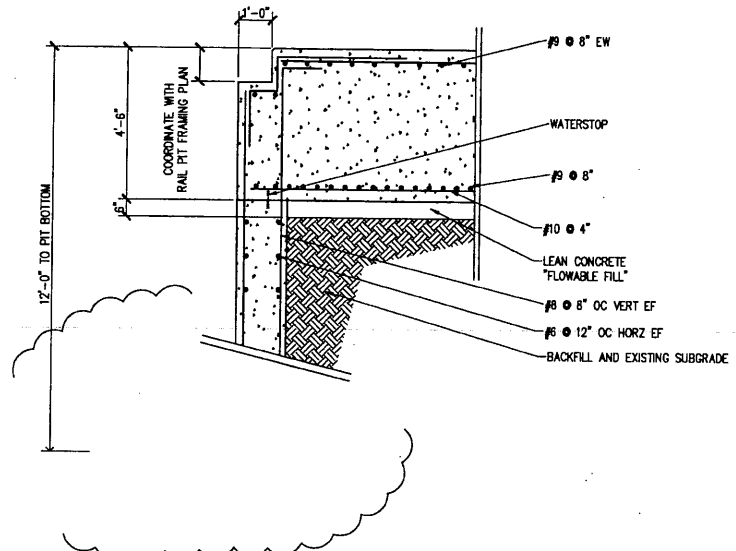
1 SECTION - SILO 3/8



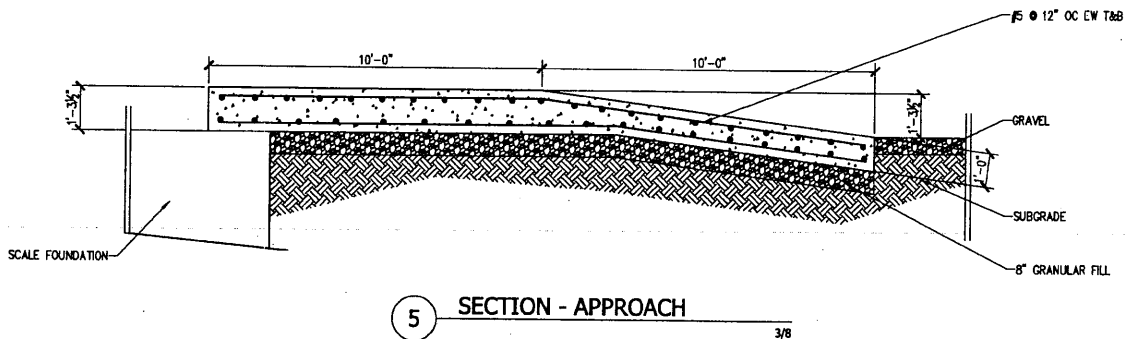
4 SECTION - SCALE/SILO 3/8



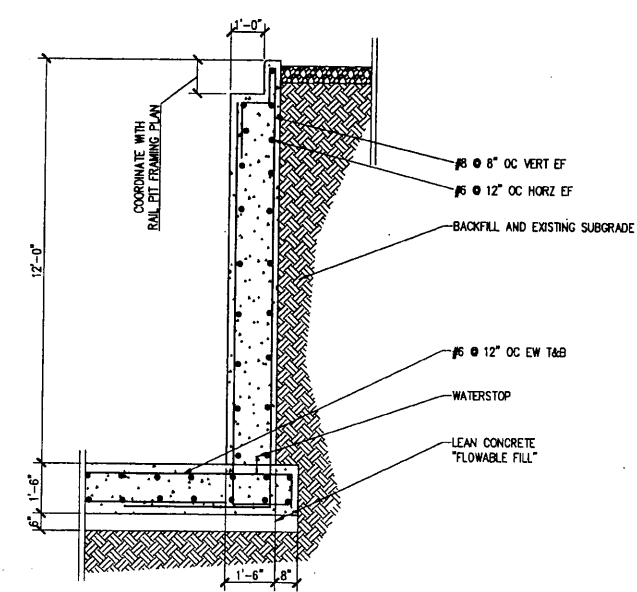
8 STAIR TOWER BP 1



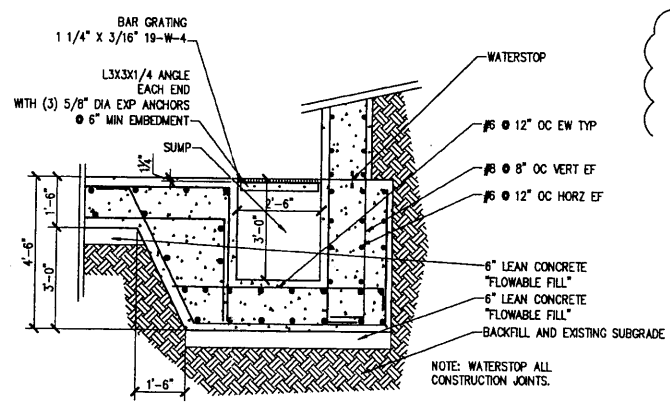
2 SECTION - SILO/PIT INTERFACE 3/8



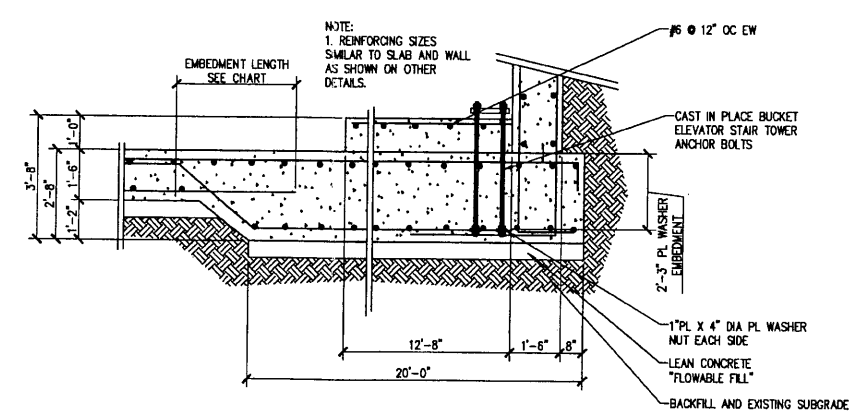
5 SECTION - APPROACH 3/8



3 SECTION - PIT 3/8



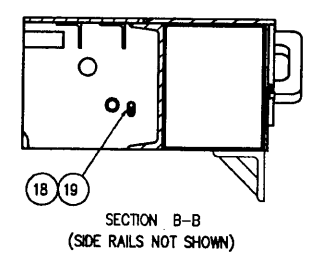
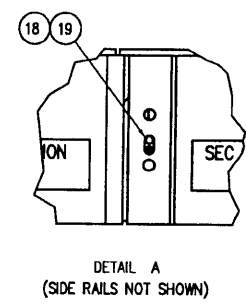
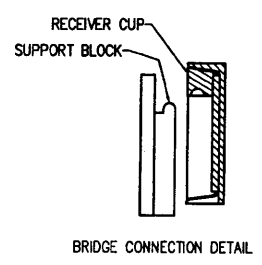
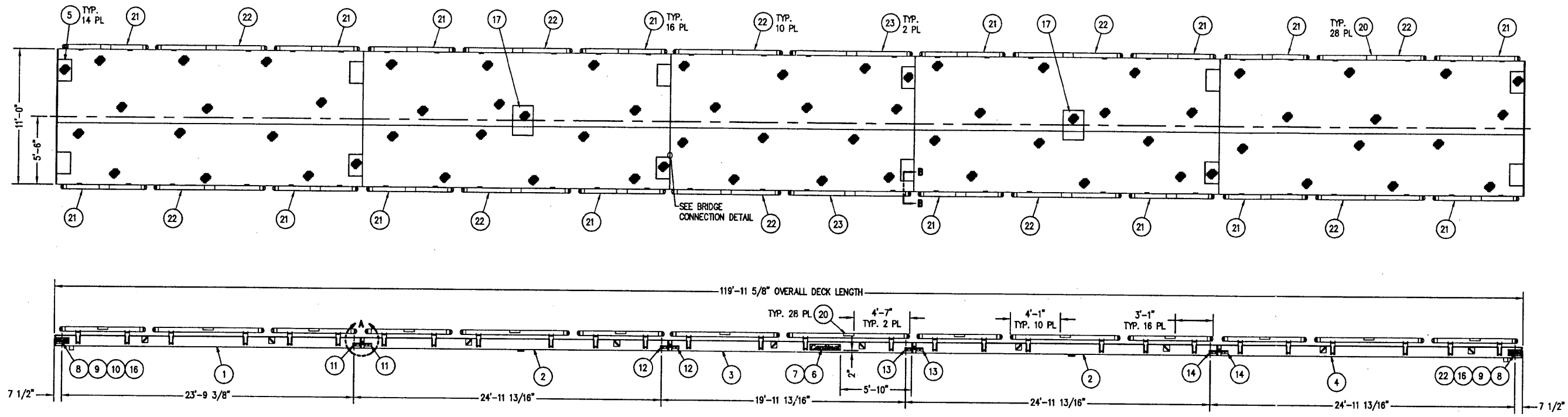
6 SECTION - SUMP 3/8



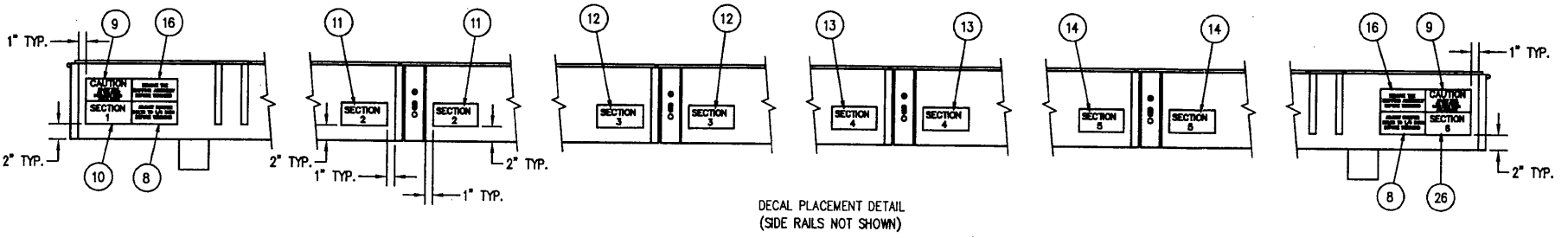
7 SECTION - THICKENED BASE 3/8

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DWG #		S02753102		SCALE: NTS																																																										

REVISION RECORD			
LTR	DESCRIPTION	DATE	BY
A	RELEASED	5/31/12	TPY



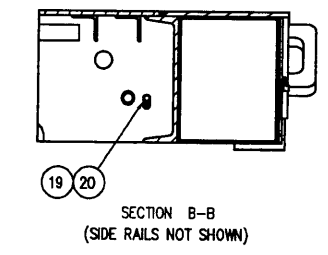
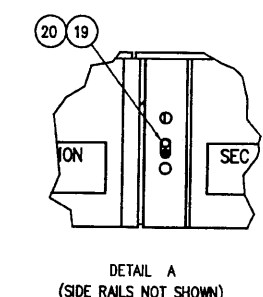
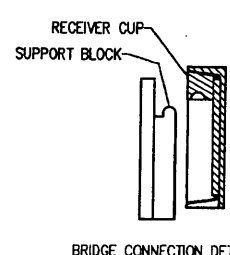
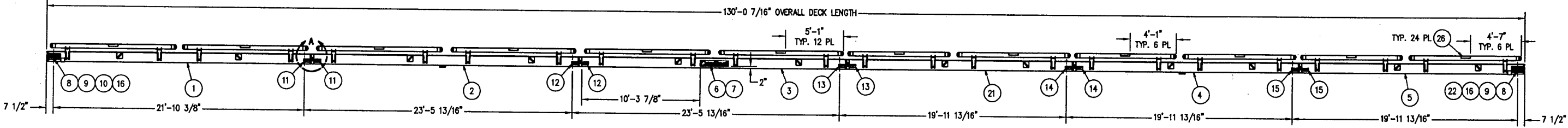
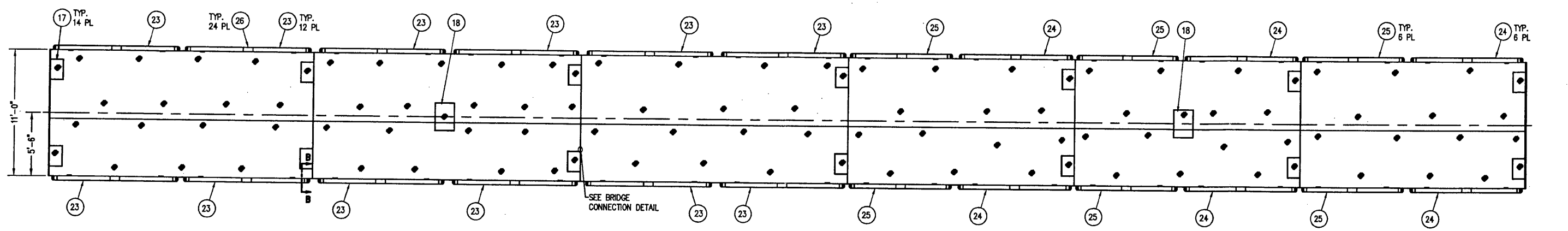
- NOTES:
1. POSITION WEIGHBRIDGES AS SHOWN, LEVEL & SQUARE.
 2. ATTACH DECALS AS SHOWN.
 3. POSITION ACCESS PLATES (ITEMS 5 & 17) WITH 1/4" TO 1/2" GAPS AS SHOWN.
 4. NAME PLATE INFORMATION:
 A: STEEL STAMP THE FOLLOWING INFORMATION ON THE DATA PLATE
 MODEL: 135120-EPR
 SERIAL NUMBER: S0242957
 CAPACITY: CLC 45 TONS
 CAPACITY: NOMINAL 135 TONS
 NMAX: 10k
 Emin: 20g
 B: POSITION THE NAME PLATE (ITEM 6) ON THE SCALE AS SHOWN.
 ATTACH USING THE RIVETS (ITEM 7).
 5. ATTACH ITEM 20 PER PREPARATION SPEC. 8525-A229-GS.



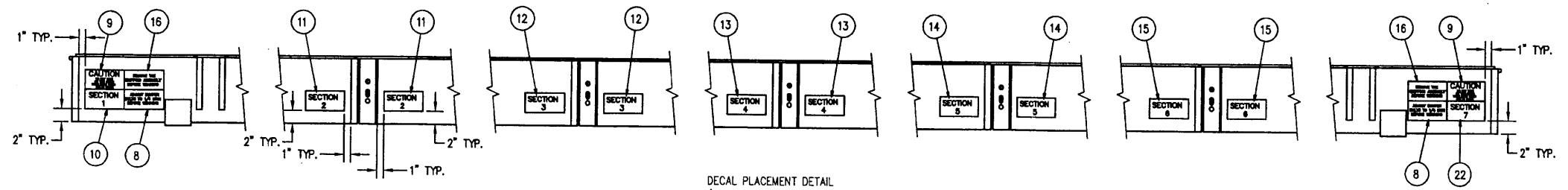
QTY.	QTY.	QTY.	ITEM	PART/DWG. NUMBER	DESCRIPTION	MATERIAL OR SOURCE	WT. EACH
2	23	0105-C254-0A	10' SIDE RAIL ASSY				86.2
10	22	0105-C258-0A	9' SIDE RAIL ASSY				79.0
16	21	0105-C587-0A	7' SIDE RAIL ASSY				64.5
28	20	0103-B307-08	CAUTION LABEL		NO STEP		
8	19	8007-0021	BLT HEX HD		1/4-20 UNC X 5/8"		0.02
8	18	8610-5006	GROUND LUG				0.1
2	17	0105-B493-0A	ENCLOSURE BOX		ACCESS ASSEMBLY		84.5
2	16	0145-B453-08	DECAL		REMOVE SHIPPING ASSEMBLY		
1	15	0145-B392-88	DECAL		SECTION 6		
2	14	0145-B392-58	DECAL		SECTION 5		
2	13	0145-B392-48	DECAL		SECTION 4		
2	12	0145-B392-38	DECAL		SECTION 3		
2	11	0145-B392-28	DECAL		SECTION 2		
1	10	0145-B392-18	DECAL		SECTION 1		
2	9	0145-B393-08	DECAL		CAUTION		
2	8	0103-B010-08	DECAL		ADJUST BUMPER BOLTS		
12	7	8680-0210	RIVET				
2	6	5930-D091-08	NAME PLATE				4.1
12	5	0105-B480-0A	ACCESS COVER				40.5
1	4	0105-D714-0A	WEIGHBRIDGE		HOOK-END MODULE		9905.5
1	3	0105-D475-0A	WEIGHBRIDGE		HOOK-ON MODULE		7702.0
2	2	0105-D713-0A	WEIGHBRIDGE		HOOK-ON MODULE		10,002
1	1	0105-D712-0A	WEIGHBRIDGE		END MODULE		10,174

QTY.	QTY.	QTY.	ITEM	PART/DWG. NUMBER	DESCRIPTION	MATERIAL OR SOURCE	WT. EACH
50,444	WT.				PARTS/MATERIAL LIST		
UNLESS OTHERWISE SPECIFIED: TOLERANCE ON DIMENSIONS ARE: ANGLES ± 1/2° INTEGERS/FRACTIONS ± 1/16 IN. DECIMALS (.X) ± .03 IN. DECIMALS (.XX) ± .01 IN. DECIMALS (.XXX) ± .005 IN. NOTE: WHOLE NUMBERS MUST BE WRITTEN XX,000 TO INVOLVE DECIMAL TOLERANCES.							
THIS DRAWING IS THE PROPERTY OF THE CARDINAL SCALE MFG. CO. AND SHALL NOT BE USED FOR REPRODUCTION EITHER WHOLLY OR IN PART EXCEPT WITH WRITTEN AUTHORIZATION. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.							
TITLE: WEIGHBRIDGE SCHEMATIC (119'-11 5/8" X 11'-0"; 135 TON CAPACITY; 45 TON CLC)				SCALE: N.T.S. DATE: 5/31/12			
DR. TYP. DATE: 5/31/12				NEXT ASSEMBLY: MD242957-SHT.1			
MODEL: 135120-EPR				SHEET: 3 OF		DWG. NO.: MD242957	
				REV.:		A	

REVISION RECORD			
LTR	DESCRIPTION	DATE	BY
A	RELEASED	5/31/12	TPY



NOTES:
 1. POSITION WEIGHBRIDGES AS SHOWN, LEVEL & SQUARE.
 2. ATTACH DECALS AS SHOWN.
 3. POSITION ACCESS PLATES (ITEMS 17 & 18) WITH 1/4" TO 1/2" GAPS AS SHOWN.
 4. NAME PLATE INFORMATION:
 A: STEEL STAMP THE FOLLOWING INFORMATION ON THE DATA PLATE
 MODEL 135130-EPR
 SERIAL NUMBER S0242965
 CAPACITY: CLC 45 TONS
 CAPACITY: NOMINAL 135 TONS
 NMAX: 10k
 Emh: 20k
 CERTIFICATE OF CONFORMANCE CC 97-093
 B: POSITION THE NAME PLATE (ITEM 6) ON THE SCALE AS SHOWN.
 ATTACH USING THE RIVETS (ITEM 7).
 5. ATTACH ITEM 26 PER PREPARATION SPEC. 8525-A229-GS.



QTY.	QTY.	QTY.	ITEM	PART/DWG. NUMBER	DESCRIPTION	MATERIAL OR SOURCE	WT. EACH
			24	26	0105-B307-06	CAUTION LABEL	NO STEP
			6	25	0105-C258-0A	8' SIDE RAIL ASSEMBLY	79.0
			6	24	0105-C254-0A	10' SIDE RAIL ASSEMBLY	86.2
			12	23	0105-C259-0A	11' SIDE RAIL ASSEMBLY	93.4
			1	22	0145-B392-7B	DECAL	SECTION 7
			1	21	0105-D475-0A	WEIGHBRIDGE HOOK-ON MODULE	7702.0
			10	20	8007-0021	BOLT HEX HD	1/4-20 UNC X 5/8"
			10	19	8810-5006	GROUND LUG	
			2	18	0105-B493-0A	ENCLOSURE BOX ACCESS ASSEMBLY	84.5
			14	17	0105-B480-0A	ACCESS COVER	40.5
			2	16	0145-B453-0B	DECAL	REMOVE SHIPPING ASSEMBLY
			2	15	0145-B392-6B	DECAL	SECTION 5
			2	14	0145-B392-5B	DECAL	SECTION 6
			2	13	0145-B392-4B	DECAL	SECTION 4
			2	12	0145-B392-3B	DECAL	SECTION 3
			2	11	0145-B392-2B	DECAL	SECTION 2
			1	10	0145-B392-1B	DECAL	SECTION 1
			2	9	0145-B393-0B	DECAL	CAUTION
			2	8	0103-B010-0B	DECAL	ADJUST BUMPER BOLTS
			12	7	6680-0210	RIVET	
			2	6	5930-D091-0B	NAME PLATE	4.1
			1	5	0105-D476-0A	WEIGHBRIDGE HOOK-END MODULE	7670
			1	4	0105-D477-0A	WEIGHBRIDGE HOOK-ON MODULE	7746
			1	3	0105-D495-0A	WEIGHBRIDGE HOOK-ON MODULE	8903
			1	2	0105-D497-0A	WEIGHBRIDGE HOOK-ON MODULE	8948.4
			1	1	0105-D494-0A	WEIGHBRIDGE END MODULE	9017.6

PARTS/MATERIAL LIST						
52,844	WT.					
UNLESS OTHERWISE SPECIFIED TOLERANCE ON DIMENSIONS ARE: ANGLES ± 1/2" INTEGERS/FRACTIONS ± 1/16 IN. DECIMALS (X) ± .03 IN. DECIMALS (.XX) ± .01 IN. DECIMALS (.XXX) ± .005 IN. NOTE: WHOLE NUMBERS MUST BE WRITTEN X0.000 TO INVOKE DECIMAL TOLERANCES.						
TITLE WEIGHBRIDGE SCHEMATIC (130'-0 7/16" X 11'-0"; 135 TON CAPACITY; 45 TON CLC)						
SCALE N.T.S.		DATE 5/31/12		DWG. NO. MD242965-SHT.1		
DR. TPY		DATE		ASSEMBLY		
CH. DATE		SHEET 3 OF		REV. A		
MODEL 135130-EPR		SHEET 3 OF		REV. A		