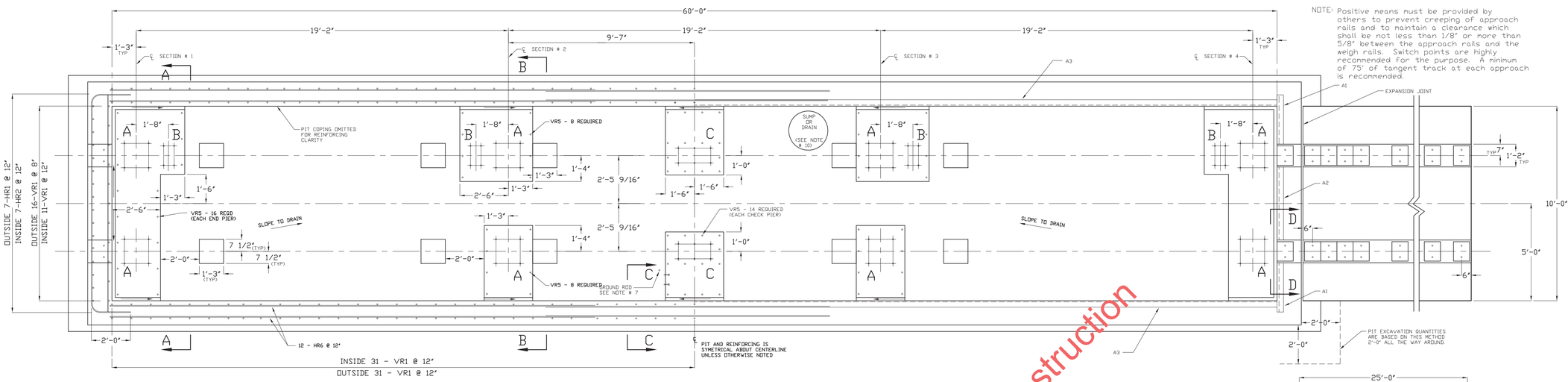
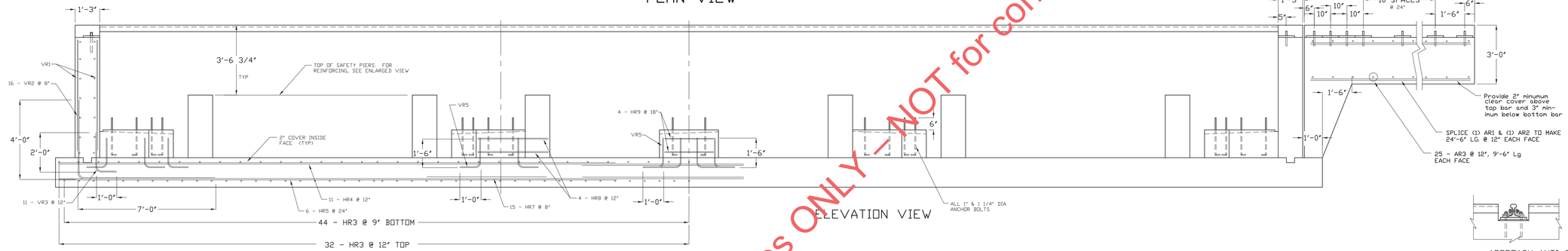
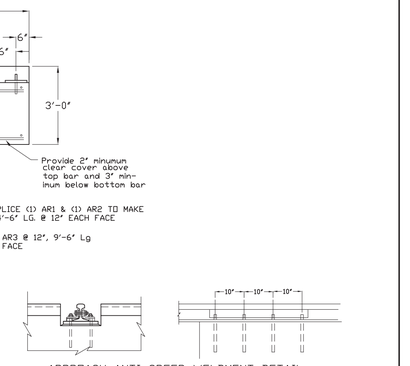
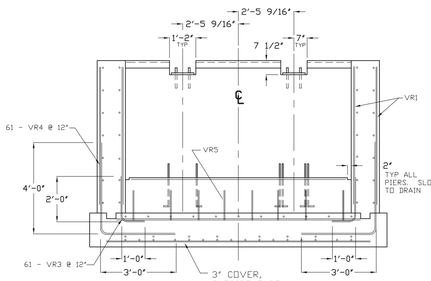


PLAN VIEW

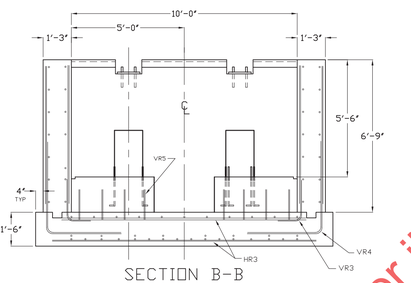


ELEVATION VIEW

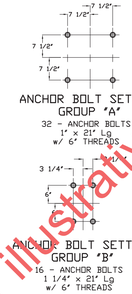


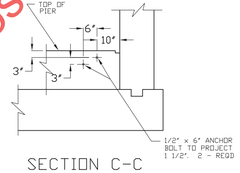


SECTION A-A

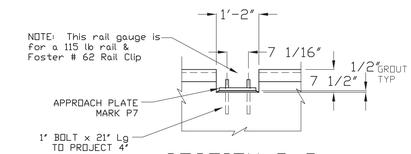


SECTION B-B



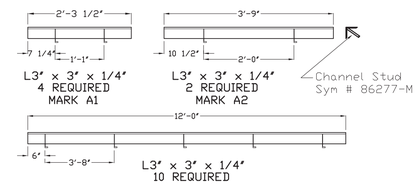


SECTION C-C

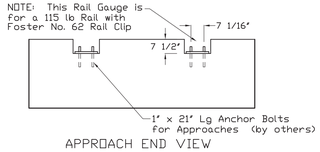


NOTE: RAIL CLIPS, APPROACH PLATES, AND APPROACH BOLTS BY OTHERS.

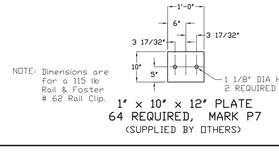
SECTION D-D

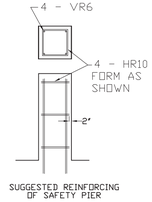


PIT COPING-SUPPLIED BY FAIRBANKS



APPROACH END VIEW





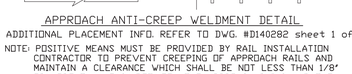
SUGGESTED REINFORCING OF SAFETY PIER

FOUNDATION STEEL BY FAIRBANKS			
QTY	MARK	DESCRIPTION	WEIGHT
4	A1	PIT COPING	48
2	A2	PIT COPING	41
10	A3	PIT COPING	390
40	1" X 21" ANCHOR BOLT W/ 6" THREADS		153
28	1 1/4" X 21" ANCHOR BOLT W/ 6" THREADS		213
2	1/2" X 6" HEX HD. BOLT W/NUT		1
64	1" HEX NUT		18
56	1 1/4" HEX NUT		26
64	1" WASHER		10
56	1 1/4" WASHER		9
4	1/2" WASHER		1
		TOTAL	1071

PIT REINFORCING STEEL SCHEDULE - BY OTHERS					
MARK	REQ'D	SIZE	LENGTH	BENDING	WEIGHT
VR1	302	#4	6'-0"		1210
VR2	32	#8	11'-0"	7'-0" ⌋ 4'-0"	940
VR3	144	#4	3'-0"	2'-0" ⌋ 12"	288
VR4	122	#6	7'-0"	3'-0" ⌋ 4'-0"	1282
VR5	92	#6	2'-6"	18" ⌋ 12"	346
VR6	48	#5	4'-0"		200
HR1	14	#4	15'-0"	2'-0" ⌊ 11'-0" ⌋ 2'-0"	140
HR2	14	#4	11'-0"		103
HR3	150	#6	11'-6"		2614
HR4	44	#5	18'-0"		826
HR5	24	#6	18'-0"		649
HR6	96	#4	17'-0"		1090
HR7	30	#8	6'-0"		481
HR8	16	#5	3'-6"		58
HR9	8	#5	2'-6"		21
HR10	48	#4	4'-8"	SEE ABOVE FOR BENDING	150
APPROACHES					
AR1	40	#6	20'-0"		1202
AR2	40	#6	7'-0"		421
AR3	100	#6	9'-6"		1427
				TOTAL	13448

FOUNDATION	
DESCRIPTION	QUANTITY
EST. EXCAVATION FOR PIT	381 CU. YD.
EST. CONCRETE FOR PIT	101 CU. YD.
EST. CONCRETE FOR APPROACH	58 CU. YD.

PIER LOADING		
LOCATION	DIRECTION	LOAD
GROUP "A" (LOAD CELL)	VERTICAL	190,000 LBS.
GROUP "B" (CHECKING)	LATERAL	20,000 LBS.
GROUP "C" (CHECKING)	LONGITUDINAL	36,000 LBS.



APPROACH ANTI-CREEP WELDMENT DETAIL

FOR ADDITIONAL PLACEMENT INFO. REFER TO DWG. #D140282 sheet 1 of 2

NOTE: POSITIVE MEANS MUST BE PROVIDED BY RAIL INSTALLATION CONTRACTOR TO PREVENT CREEPING OF APPROACH RAILS AND MAINTAIN A CLEARANCE WHICH SHALL BE NOT LESS THAN 1/8" OR MORE THAN 5/8" BETWEEN THE APPROACH RAILS AND THE SCALE RAILS.
ANTI-CREEP DEVICES AND HARDWARE TO BE SUPPLIED BY OTHERS.

GENERAL NOTES

1. All concrete shall have a minumum compressive strength of 3000 PSI at 28 days.
2. Reinforced pit as indicated is designed for a minumum soil bearing capacity of 4000 P.S.F. as specified by A.R.E.A. Careful soil exploration, including borings, is always desirable, reference Paragraph 2.22.18, chapter 34, A.R.E.A. Specifications (Applies IF the scale must neet A.R.E.A. requirements).
3. The pit contractor or customer may elect to revise the reinforcing to suit local requirements.
4. Sufficient drainage shall be provide by others to prevent moisture accumulations in the pit.
5. Work from centerlines when erecting forms and setting anchor bolts. Top of the piers must be smooth, level, and true to plane. Pour piers monolithic with walls.
6. For cable entrance into the pit, 2" steel conduit shall be provided through the pit wall at a minimum of 12" above the pit floor.
7. If A.C. power is required in the pit, it shall not run closer than 24" in parallel to any cell cable. A 1" conduit shall be provided through the pit wall for such entrance.
8. For ground rod, see Fairbanks Manual SJ-3752.
9. Fairbanks Scales cannot be responsible for the solidity of the pit, foundation, or footing. The responsibility for the pit is assumed by the pit builder or as contracted.
10. The pit floor shall be pitched to a common point for drainage and shall be smooth and free of pockets in which water may stand. If the pit floor is below subsurface water level, the pit shall be drained from its lowest point into a sump adequately equipped with automatic means for removal of water as it collects.
    The State of Iowa requires an outside pump if a suitable gravity drain is not avalible. Consult state regulations for exact specifications.

LET	BY	DATE	REVISION
A	BK	12/95	DRAWN ON CAD
B	SLS	8/98	REVISED REBAR SPACING
C	SB	3/00	REVISED FOUNDATION EXCAVATION

The material and information contained herein is confidential and is the property of Fairbanks Scales and is not to be used, disclosed, copied, transfered or repoduced without the prior written permission of Fairbanks.

Unless otherwise specified: dimensions are in inches. Tolerances: Fractions: ±1/8" Angles: 1° 3 place decimals: 2 place decimals: Hole diameter: ±1/32"

MATERIAL | FINISH

FAIRBANKS SCALES

Meridian, Mississippi

name: FULL ELECTRONIC COMBINATION RRT/MTS FOUNDATION DRAWING 60'-0" x 10'-0" 6" CONCRETE DECK 180 TONS PER SECT. 4 - SECTION 360 TONS GROSS CAPACITY A.R.E.A.

date: 12-11-95 | material:

scale: N/A in. per ft. | sheet 2 of 2

drawn by: BRK

MODEL 12-1492

checked by:

approved by:

D140282

For illustrative purposes ONLY - NOT for construction