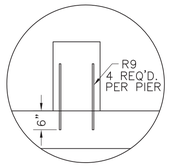
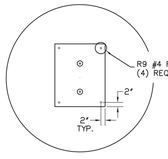
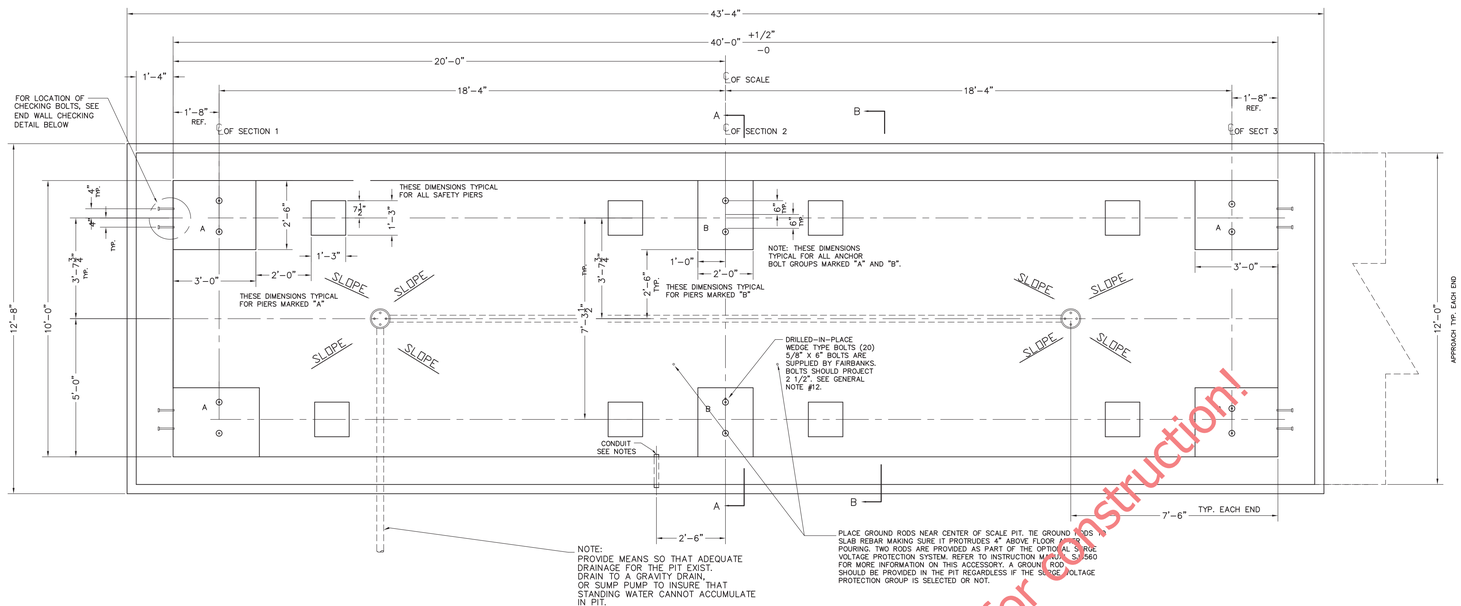


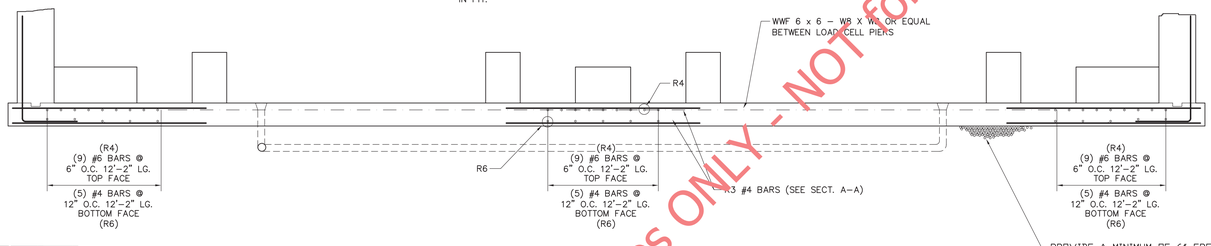
SAFETY PIER REINFORCING

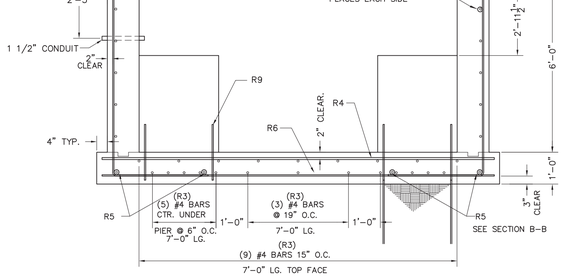


LOAD CELL PIER REINFORCING
SEE SCHEDULE FOR LENGTH



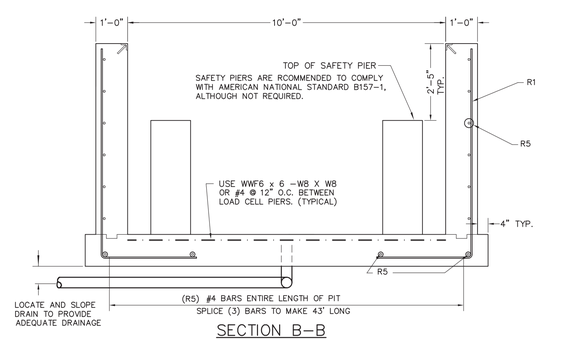
	REINFORCING BAR SCHEDULE				
SYM.	QTY.	SIZE	LENGTH	BENDING	WEIGHT
R1	82	#4	9'-7"	6'-7" | 3'-0"	525
R2	20	#6	7'-10"	5'-10" | 24"	235
R3	66	#4	7'-0"	7'-0"	308
R4	27	#6	12'-2"	12'-2"	493
R5	48	#4	16'-0"	16'-0"	513
R6	15	#4	12'-2"	12'-2"	122
R7	10	#4	11-4"	11'-4"	76
R8	20	#4	4'-0"	2'-0" | 2'-0"	53
R9	56	#4	1'-6"	1'-6"	56
	REINFORCING BAR SCHEDULE FOR APPROACHES				
R10	22	#4	10'-0"	10'-0"	148
R11	22	#4	11-8"	11'-8"	172
				TOTAL	2445
PLUS APPROX. 400 SQUARE FEET OF WWF 6 x 6 – W8 X W8					



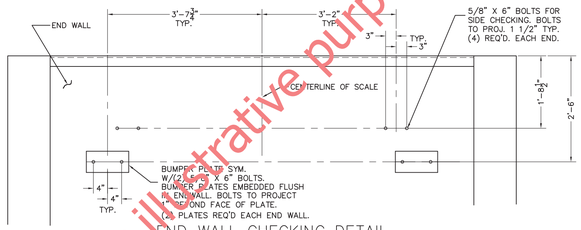


SECTION A–A
TYPICAL (3) PLACES

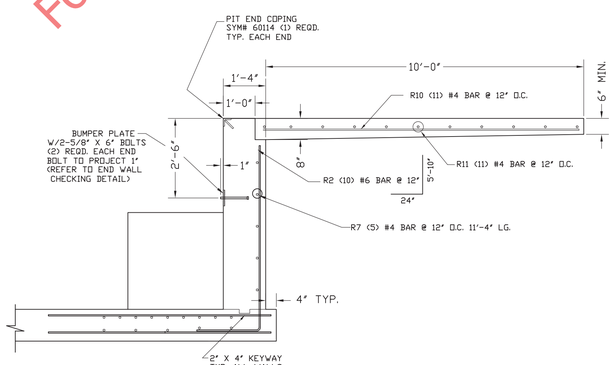
*NOTE: UNDER LOAD CELL PIERS A & B IN ADDITION TO BARS SHOWN ON SECTION B–B



SECTION B–B



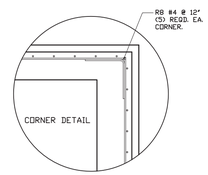
END WALL CHECKING DETAIL



END WALL AND APPROACH
TYPICAL EACH END

APPROX. CONCRETE REQ'D.	
SLAB/PIERS	25 CU. YDS.
WALLS	25 CU. YDS.
APPROACHES	5 CU. YDS.
TOTAL W/O SAFETY PIERS	55 CU. YDS.
TOTAL W/ SAFETY PIERS	57 CU. YDS.

APPROX. EXCAVATION QTY = 219 CU. YDS. (BASED ON 2'–0" CLEARANCE AROUND SIDE OF PIT)



GENERAL NOTES

1. EXCAVATION, FOUNDATION FORMS, REBARS, AND CONCRETE IS TO BE FURNISHED BY CONTRACTOR OR CUSTOMER.

2. REINFORCING BARS ARE TO EQUAL ASTM A615, GRADE 50 OR 60. BEND BARS COLD TO CONFORM WITH REQUIRED DETAILS. REMOVE SCALE, LOOSE FLAKEY RUST, DIRT, AND OTHER COATING THAT WOULD INPAIR BONDING. SPACE BARS PROPERLY AND TIE SECURELY IN POSITION BEFORE PLACING CONCRETE. TACK WELDING TO KEEP REINFORCING IN PLACE IS NOT PERMITTED.

3. MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH CURRENT AMERICAN CONCRETE INSTITUTE (ACI) CODE REQUIREMENTS. ALL CONCRETE TO BE A MINIMUM OF 3000 P.S.I. @ 28 DAYS.

4. 1500 P.S.F. MINIMUM SOIL BEARING CAPACITY IE REQUIRED. THE DESIGN IS ADEQUATE FOR HIGHWAY SURCHARGE OR 300 P.S.F. ADJACENT TO PIT WALLS.

5. REFER TO SJ MANUAL 3884 FOR MORE DETAILED INSTRUCTIONS ON PIT CONSTRUCTION RECOMMENDATIONS.

6. WORK FROM CENTERLINES WHEN ERECTING FORMS AND PLACING FOUNDATION BOLTS. PLACE BOLTS TO WITHIN ±1/8" OF POSITIONS INDICATED ON DRAWINGS. (BOLTS MUST BE PLACED WITHIN ±1/8" OF TOTAL DIMENSIONS FROM CENTERLINE OF SCALE.)

7. FOR SETTING PLAN, SEE DRAWING D91375-SP.

8. CLEARANCE DIMENSION FOR BOTTOM OF MAIN GIRDER TO PIT FLOOR IS 45".

9. VARIOUS STATE WEIGHTS AND MEASURES AUTHORITIES HAVE REGULATIONS, PARTICULARLY IN REGARD TO PIT DEPTH AND APPROACHES, AFFECTING PIT AND INSTALLATION. THE PIT CONTRACTOR IS RESPONSIBLE TO VERIFY THAT THIS PLAN AND INSTALLATION MEETS LOCAL MINIMUM REQUIREMENTS. FOR ASSISTANCE, CONTACT NEAREST FAIRBANKS SCALE OFFICE.

10. SOME STATES REQUIRE THAT CONCRETE PIERS BE POUR MONOLITHIC WITH SIDE WALLS. (RECOMMENDED METHOD)

11. SUITABLE CONDUIT FOR LOW VOLTAGE CONDUCTOR SHIELDED CABLE MUST PASS THRU THE PIT WALL AT ANY POINT ABOVE PIER TOPS THAT IS CONVENIENT. CONDUIT MUST EXTEND BEYOND PIT WALL A MINIMUM OR 2'. FOR RUNS OF CONDUIT UP TO 50'–0" IN LENGTH, USE 1½" CONDUIT. AVOID RUNNING CABLE IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES.
IF AS IS REQUIRED IN PIT, IT SHALL NOT RUN CLOSER THAN 24" IN PARALLEL TO ANY CELL CABLE.

12. CAST–IN–PLACE ANCHOR BOLTS ARE NOT REQUIRED AT PIERS, BUT ARE REQUIRED IN THE END WALLS FOR CHECKING SYSTEM.

13. TOPS OF ALL PIERS MARKED "A" OR "B" MUST BE SMOOTH, FLAT, AND LEVEL FOR LOADCELL BASE PLATES TO BEAR PROPERLY.

For illustrative purposes ONLY - NOT for construction!

LET	BY	DATE	REVISION

FAIRBANKS SCALES
Meridian, Mississippi

name: 40' X 10' REINFORCED PIT 3–SECTION FULL ELECTRONIC CAP. 85 TON 70K CLC PLT–2600RC–5GO

date: 12/28/99 | material:

scale: N/A in. per ft. | sheet 1 of 1

drawn by BT

6' DEEP PIT

checked by

approved by

D91375-RP6

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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