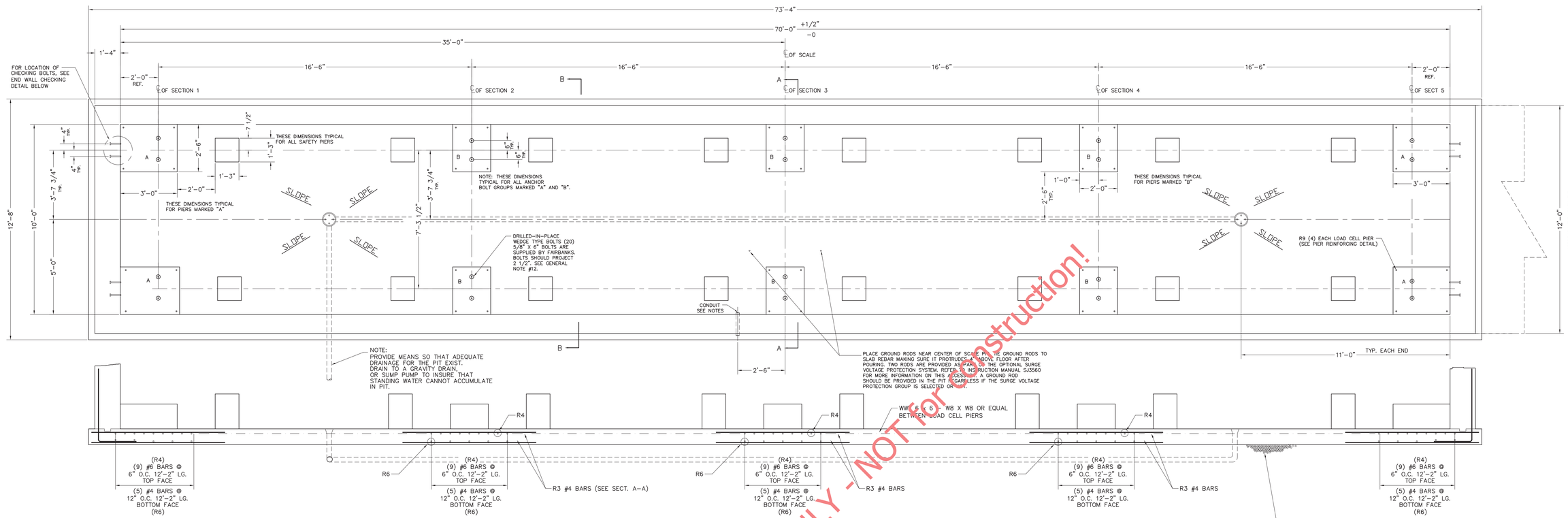
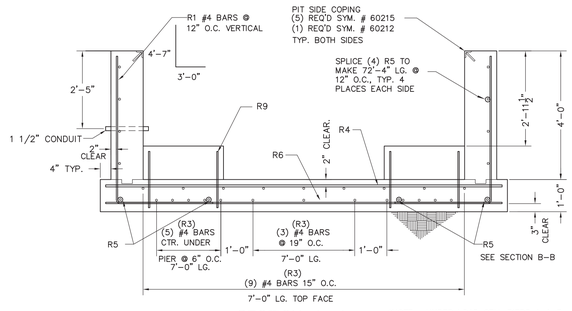
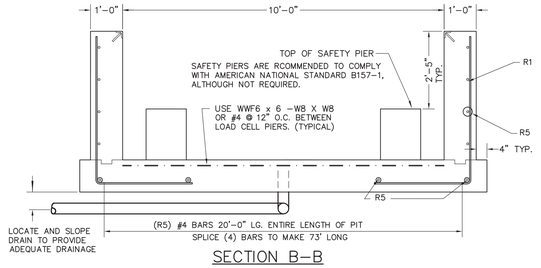


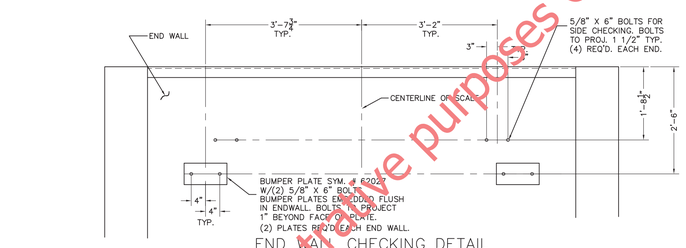


SECTION A-A
TYPICAL (5) PLACES

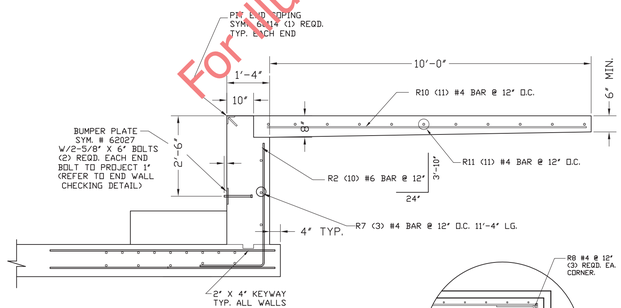
*NOTE: UNDER LOAD CELL PIERS A & B IN ADDITION TO BARS SHOWN ON SECTION B-B



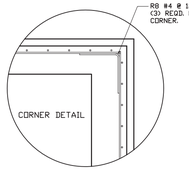
SECTION B-B



END WALL CHECKING DETAIL



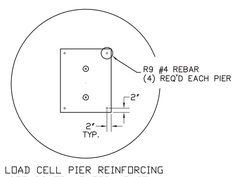
END WALL AND APPROACH
TYPICAL EACH END



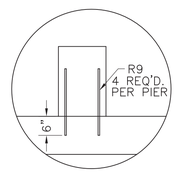
	REINFORCING BAR SCHEDULE				
SYM.	QTY.	SIZE	LENGTH	BENDING	WEIGHT
R1	142	#4	7'-7"	4'-7" ⌊ 3'-0"	711
R2	20	#6	5'-10"	3'-10" ⌊ 24"	173
R3	110	#4	7'-0"	7'-0"	514
R4	45	#6	12'-2"	12'-2"	823
R5	48	#4	20'-0"	20'-0"	641
R6	25	#4	12'-2"	12'-2"	203
R7	6	#4	11'-4"	11'-4"	45
R8	12	#4	4'-0"	2'-0" ⌊ 2'-0"	32
R9	104	#4	1'-6"	1'-6"	104
	REINFORCING BAR SCHEDULE FOR APPROACHES				
R10	22	#4	10'-0"	10'-0"	148
R11	22	#4	11-8"	11'-8"	172
				TOTAL	3566
PLUS APPROX. 620 SQUARE FEET OF WWF 6 x 6 - W8 X W8					

APPROX. EXCAVATION QTY = 238 CU. YDS. (BASED ON 2'-0" CLEARANCE AROUND SIDE OF PIT)

APPROX. CONCRETE REQ'D.	
SLAB/PIERS	37 CU. YDS.
WALLS	26 CU. YDS.
APPROACHES	5 CU. YDS.
TOTAL W/O SAFETY PIERS	68 CU. YDS.
TOTAL W/ SAFETY PIERS	70 CU. YDS.



LOAD CELL PIER REINFORCING
SEE SCHEDULE FOR LENGTH



SAFETY PIER REINFORCING

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 CENTERLINE'S WHEN ERECTING FORMS AND PLACING FOUNDATION BOLTS. PLACE BOLTS TO WITHIN ±1/8" OF POSITIONS INDICATED ON DRAWINGS. (BOLTS MUST BE PLACED WITHIN ±3/8" OF TOTAL DIMENSIONS FROM CENTERLINE OF SCALE.)

7. FOR SETTING PLAN, SEE DRAWING D91378-SP.

8. CLEARANCE DIMENSION FOR BOTTOM OF MAIN GIRDER TO PIT FLOOR IS 21".

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 OF 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

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Unless otherwise specified dimensions are in inches
Tolerances: Fractions: ±1/8"
Angles: 1°
3 place decimals: ±.010
2 place decimals: ±.030
Hole diameter: ±1/32"

MATERIAL | FINISH

FAIRBANKS SCALES
Meridian, Mississippi

name: 70' X 10' REINFORCED PIT 5-SECTION FULL ELECTRONIC CAP. 100 TON 70K CLC PLT-2600RC-5MO

date: 1/23/01
material:
scale: N/A in. per ft
sheet 1 of 1
drawn by RC
checked by
approved by

4' DEEP PIT - WISC

D91378-RP4-WI