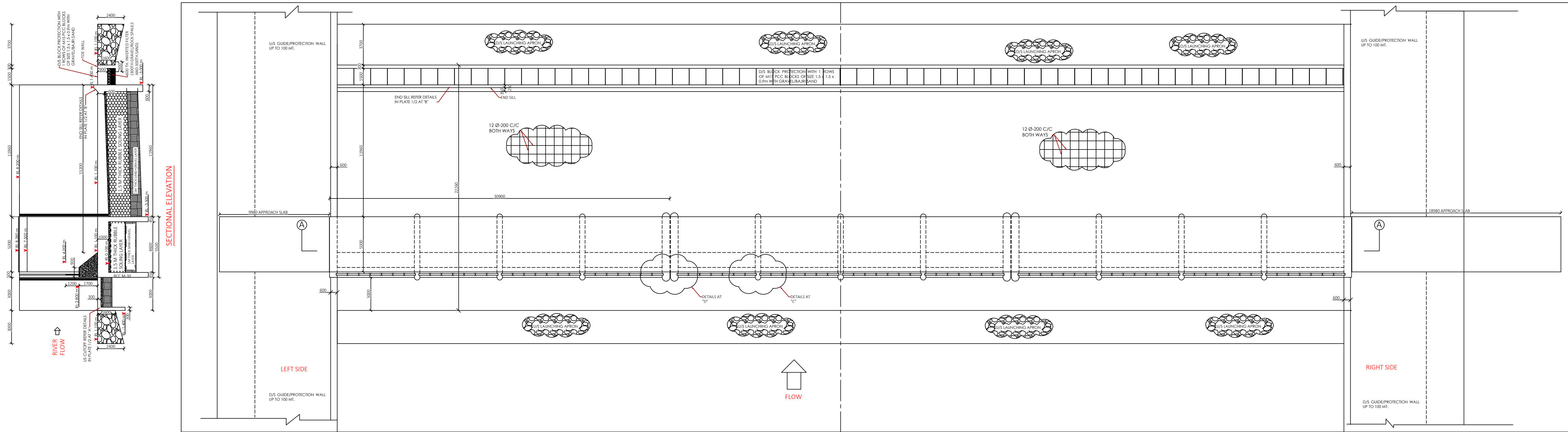
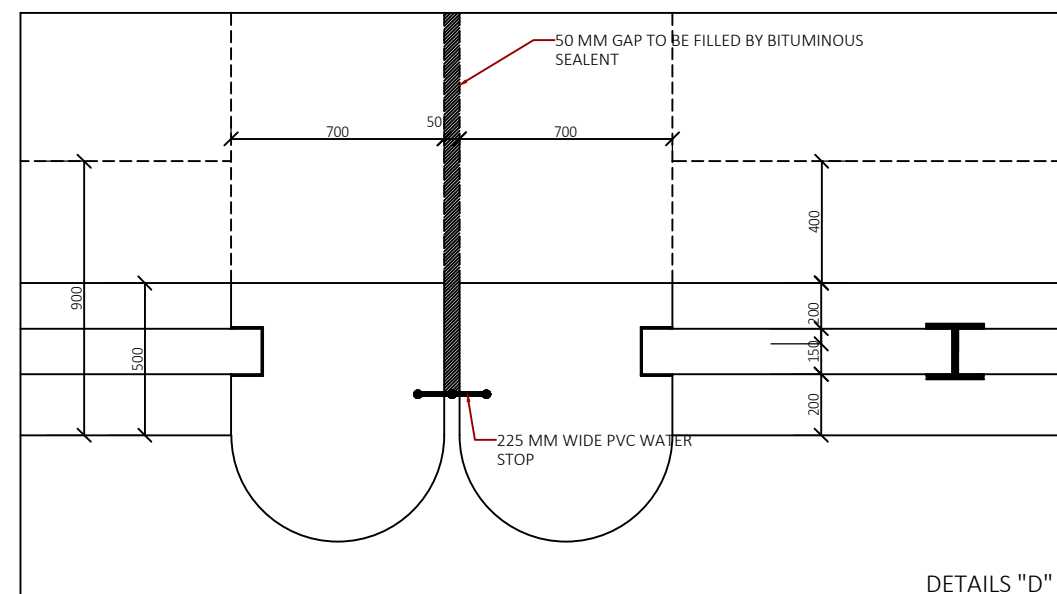
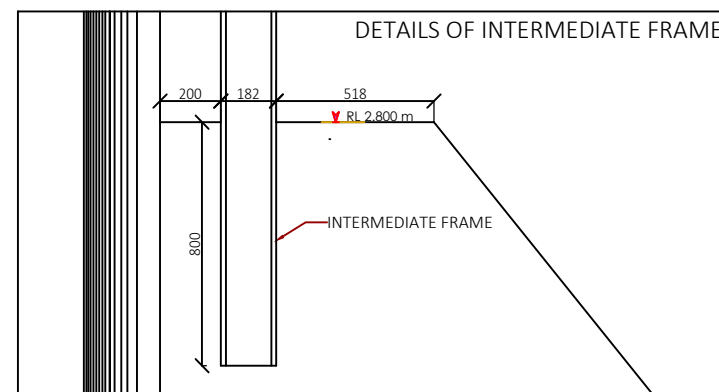
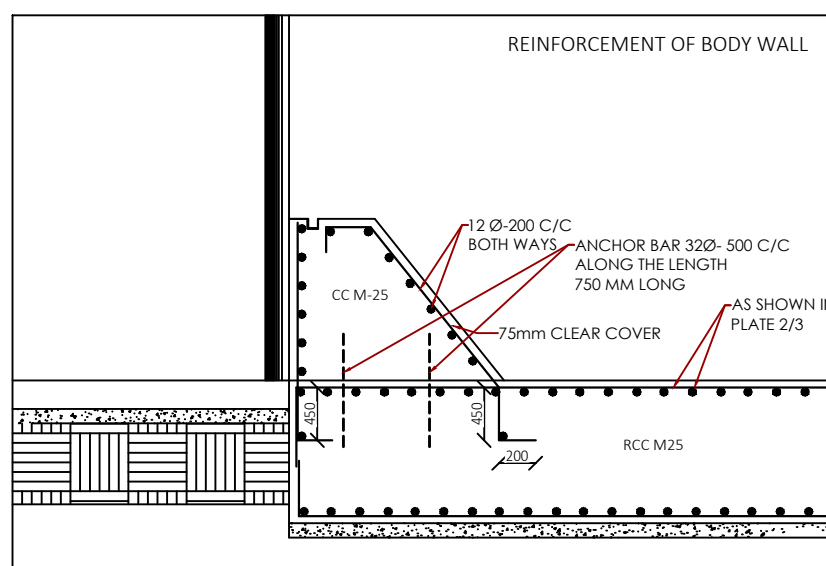
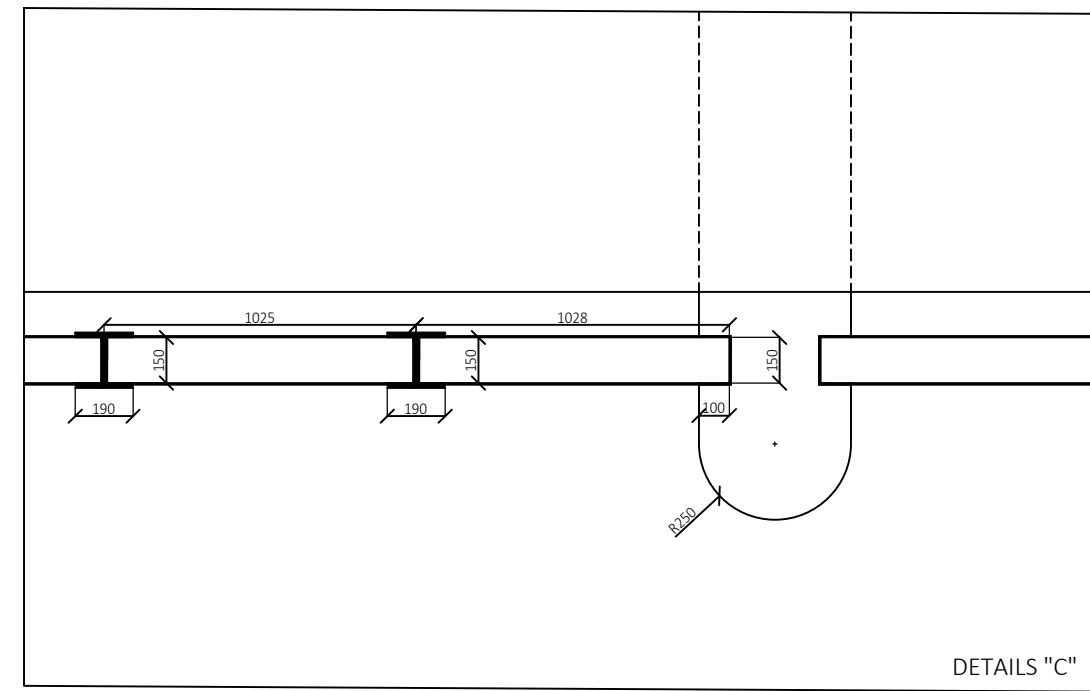
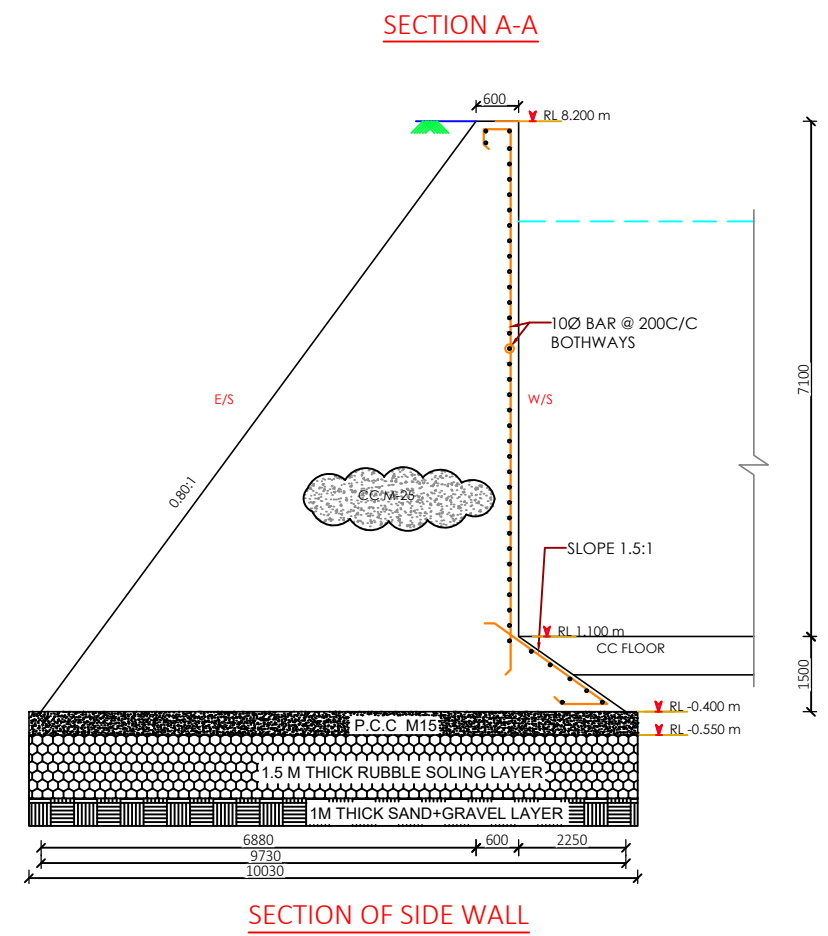
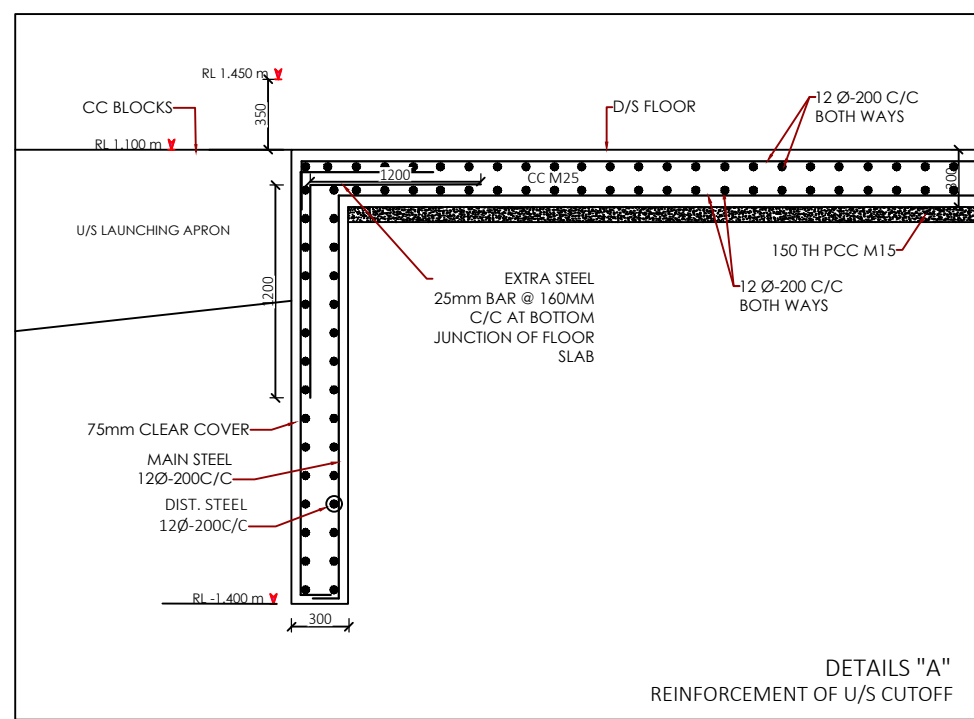
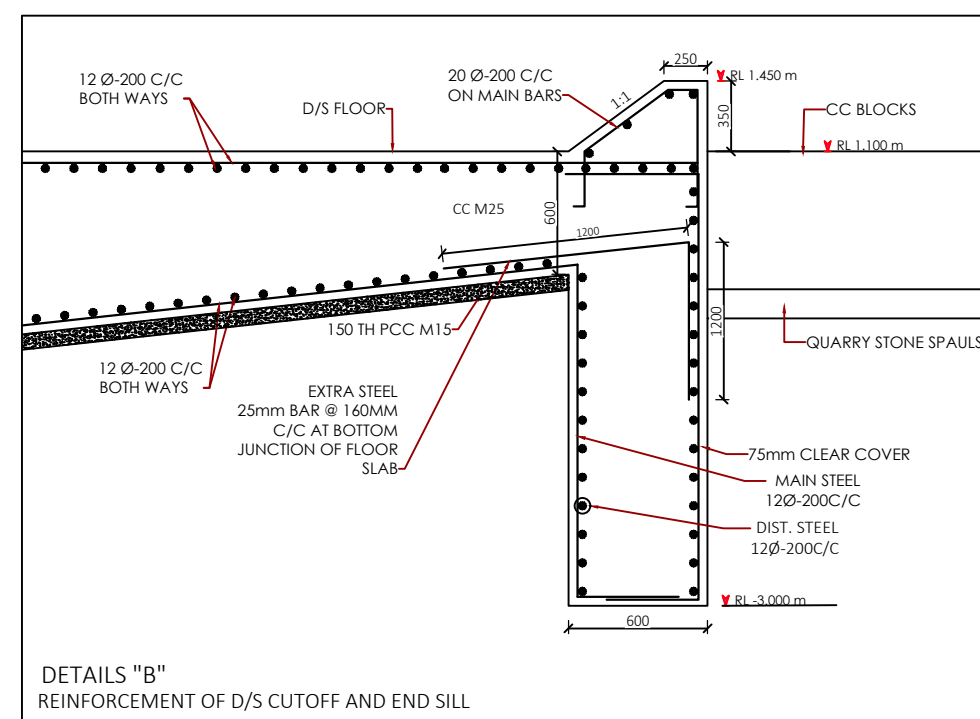
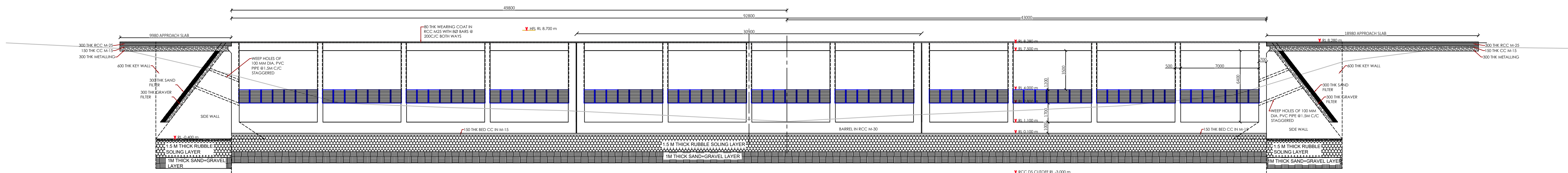


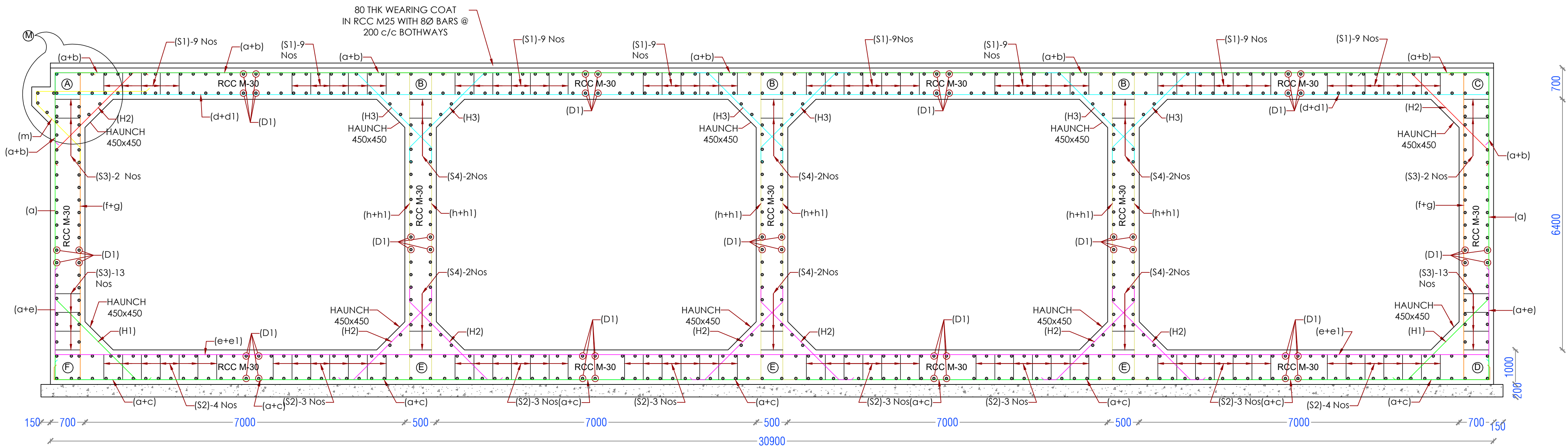
SECTION - 9
DRAWINGS



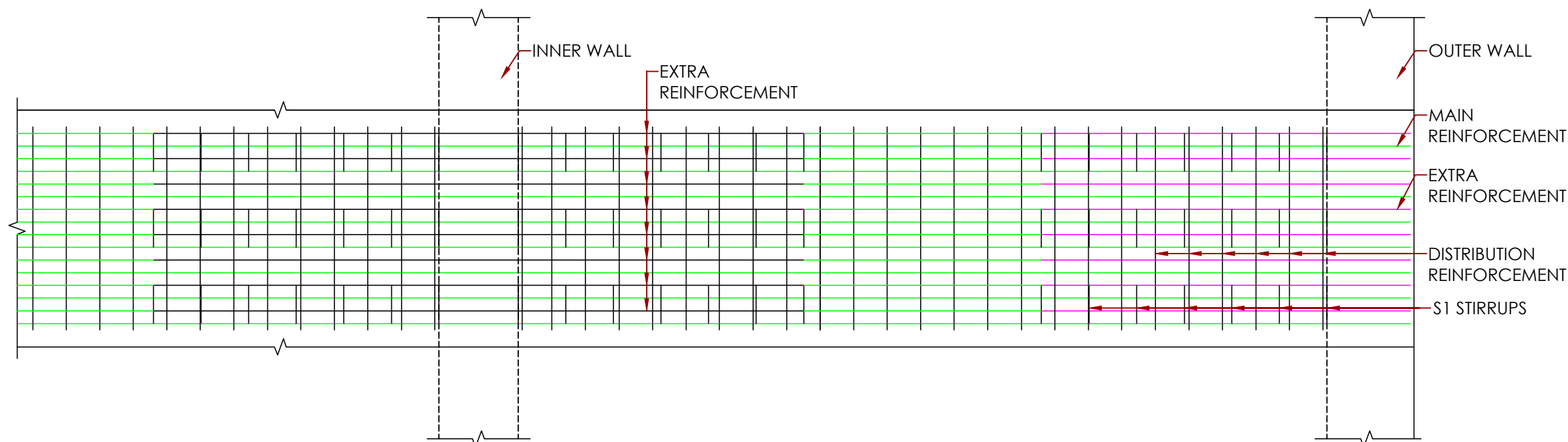
- NOTES:
1. ALL DIMENSIONS & LEVELS ARE IN METRE.
 2. THE DRAWING SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 3. THE STRUCTURE OR ITS COMPONENT SHALL NOT BE RESTED ON LOOSE OR EXPANSIVE SOIL.
 4. THE CONSTRUCTION WORK SHALL BE CARRIED OUT MONOTONICALLY IN ACCORDANCE WITH SPECIFICATIONS AND RELEVANT I.S. CODES.
 5. 7.5 CM CLEAR COVER SHALL BE PROVIDED TO THE REINFORCEMENT.
 6. EXCAVATED FOUNDATION OF ABUTMENT, SIDEWALL & CUTOFFS SHOULD BE FILLED WITH SUITABLE SELECTED MATERIAL DULY COMPACTED AFTER COMPLETION OF WORK. IT SHOULD BE STRENGTHENED BY PROVIDING 30 CM THICK DRY RUBBLE PITCHING WITH 15 CM THICK FILTER.
 7. NECESSARY PVC WATER STOPS SHALL BE PROVIDED.
 8. TO IMPROVE WORKABILITY OF CONCRETE ADMIXTURES MAY BE USED CONFORMING TO IS-6925 AND IS-9103. GUIDE LINES/APPLICABLE PROVISIONS SPECIFIED IN IS-456:2000 FOR RCC WORK, IS-457:2000 AND IS-14691:1999 SHALL BE ADOPTED AND FOLLOWED SCRUPULOUSLY FOR WORK OF MASS CONCRETE.
 9. THE REINFORCEMENT TO BE USED IS CONSIDERED AS TMT BARS (#6-500 DI).
 10. WHERE AS THE EARTH FILLING/BACK FILLING IS REQUIRED IT SHALL BE DONE USING SELECTED TYPE OF SOIL WITH PROPER DEGREE OF COMPACTION.
 11. NECESSARY PVC WATER STOP SHALL BE PROVIDED.
 12. LAUNCHING APRON OF LENGTH OF 3.0 m ON U/S SIDE AND 3.7 m ON D/S SIDE IS PROVIDED FOR SAFETY. GENERALLY STONE OR BOULDERS FOR LOOSE STONE PROTECTION SHALL NOT BE LESS THAN 300 mm IN SIZE AND NOT LESS THAN 40 KG IN WEIGHT AS PER IS-6966:1989.
 13. BELOW THE PCC LAYER AS SHOWN IN THIS DRAWING OR ANY LOCAL DEPRESSION FOUND SHALL BE FILLED WITH RUBBLE. SOUNDING OF SAND THICKNESS IN COMPACTED LAYERS OF 300MM. IN CASE OF SAND LAYER RELATIVE DENSITY 0.70 SHALL BE ACHIEVED. IN LEU OF COMPACTED SAND WITH RELATIVE DENSITY OF 0.70 OR MORE.
 14. WEEP HOLES OF 100 MM DIA. PVC PIPE @ 1.50 M C/C IN STAGGERED PATTERN SHALL BE PROVIDED IN SIDEWALL.
 15. 1.0 M THICK SAND-GRAVEL LAYER SHALL BE PROVIDED BELOW ALL COMPONENTS LIKE BODY WALL, ABUTMENT, SIDE WALL, APRON ETC. MOREOVER, BEFORE EXECUTION FOUNDATION SOIL SHALL BE TESTED TO KNOW ITS SWELLING PRESSURES AND ACCORDINGLY SAND-GRAVEL LAYER OF PROPER THICKNESS SHALL BE PROVIDED BELOW ALL THE COMPONENTS LIKE BODY WALL, ABUTMENT, SIDEWALL ETC. AS PER IS-3461:1994 AS MENTIONED IN THE DRAWING.
 16. THE CNS MATERIAL SHALL BE NON-SWELLING TYPE CONFORMING TO IS-3451:1994 WITH LIQUID LIMIT NOT EXCEEDING 50. SWELLING PRESSURE AT C.M.C. NOT MORE THAN 15 kN/SQ. M AND MINIMUM COHESION VALUE OF 10 kN/SQ. M.
 17. D/S PRECAST BLOCK PROTECTION IS PROVIDED AS 1 ROWS OF CC M15 CEMENT CONCRETE BLOCK OF SIZE 1.5 x 1.5 x 0.5 m LAID OVER 0.6 m THICK INVERTED BED (0.3m THICK QUARRY SPALLS AND 0.3 m THICK SAND FILTER WITH GAP OF 75 mm PACKED WITH PEA GRAVEL OR BARR SAND).
 18. THE GRADED FILTER SHOULD CONFORM FOLLOWING CRITERIA - (DT5 OF FILTER/DT5 OF FOUNDATION) ≥ 4 = (DT5 OF FILTER/DT5 OF FOUNDATION) THE FILTER MAY BE PROVIDED IN TWO OR MORE LAYERS. THE GRAIN SIZE CURVE OF FILTER LAYERS AND BASE MATERIAL SHALL BE PARALLEL.
 19. 300TH CC M-25 TO SEPARATOR WALL SHALL BE PROVIDED HAVING ITS FOUNDATION LEVEL BELOW THE BOTTOM LEVEL OF FILTER BED OF CC BLOCK PROTECTION ON D/S.
 20. SHUTTERING PLATES SHALL BE SUITABLY STIFFENED TO ENABLE COMPACTION BY FORM VIBRATORS.



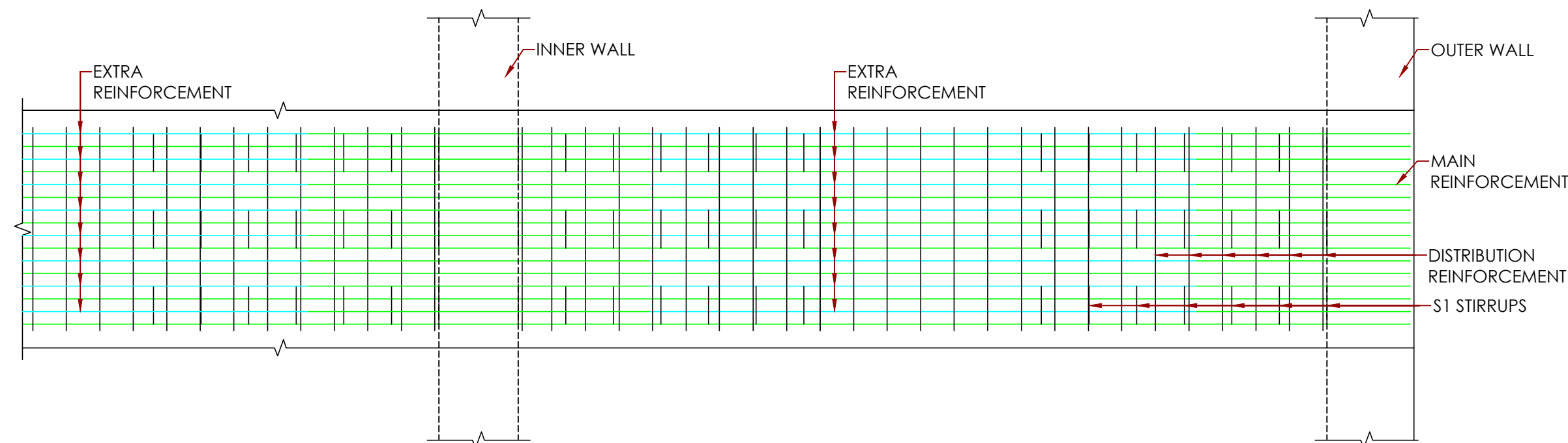
NOT OT SCALE	
GOVERNMENT OF GUJARAT N.W.R.W.S. & K. DEPT.	
NAME OF WORK: EPC work for Construction of Hydraulic structure with bridge on River Dhadhar at village-Magnad, Ta:Jambusar, Dist: Bharuch	
PLAN AND CROSS SECTIONAL DETAILS OF VARIOUS COMPONENTS	
SUPERINTENDING ENGINEER VADODARA IRRIGATION CIRCLE VADODARA	
EXECUTIVE ENGINEER MEDIUM IRRIGATION PROJECT DIVISION ANKLESHWAR	
DEPUTY EXECUTIVE ENGINEER IRRIGATION SUB DIVISION NO.17 ANKLESHWAR	



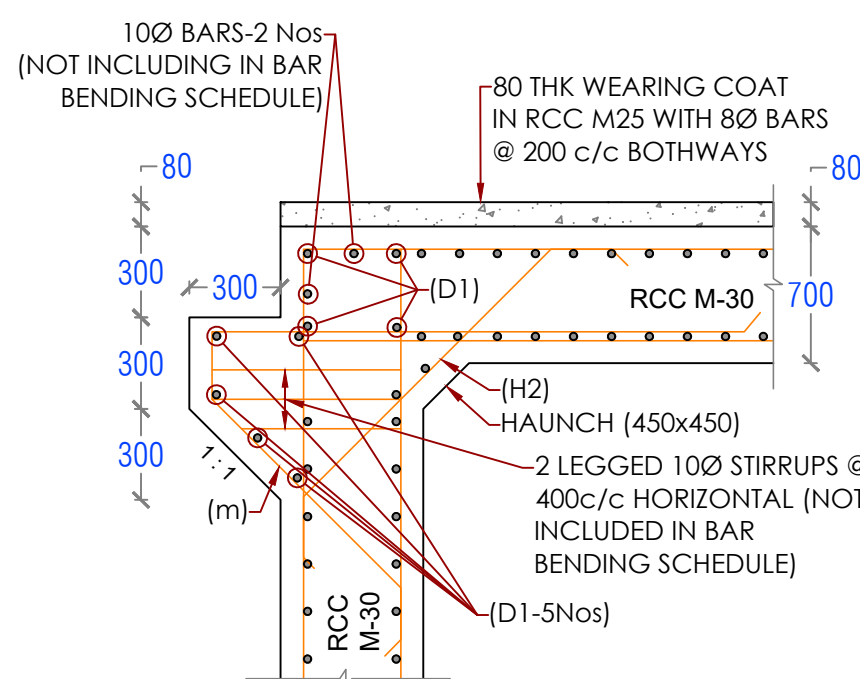
SECTIONAL ELEVATION SHOWING REINFORCEMENT DETAILS



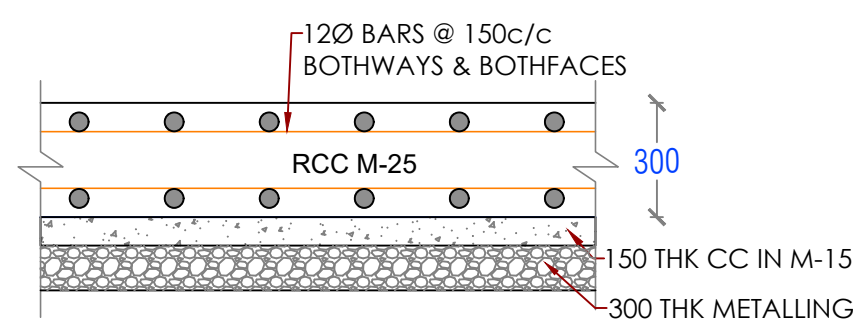
TYPICAL DETAIL FOR TOP FACE REINFORCEMENT OF TOP SLAB



TYPICAL DETAIL FOR BOTTOM FACE REINFORCEMENT OF TOP SLAB



DETAIL AT : 'M'

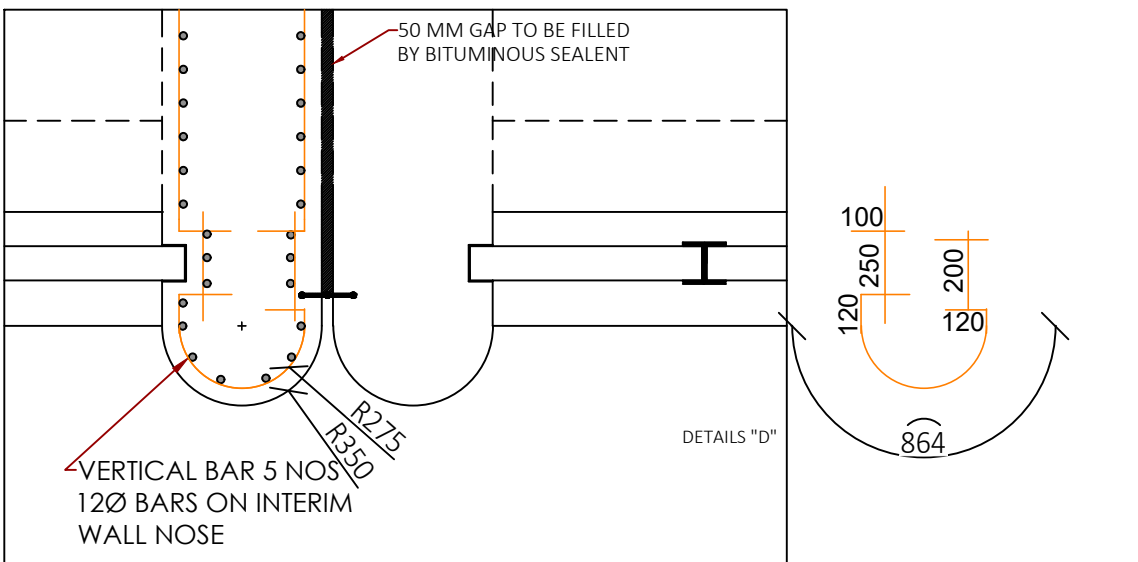
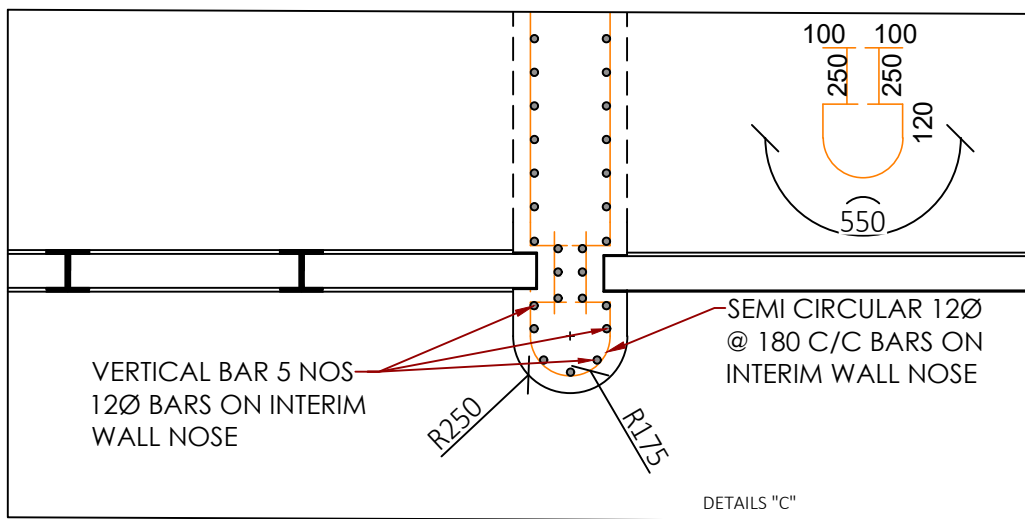


DETAILS OF APPROACH SLAB

SCHEDULE OF REINFORCEMENT FOR R.C.C. BARREL					
Sr. No.	NOM	Ø IN mm	SPACING mm	SHAPE OF BAR	LOCATION
1	a	25	270		THROUGH BARS AT OUTER FACE OF TOP, BOTTOM SLAB AND END WALL.
2	b	25	270		EXTRA BARS AT OUTER FACE OF TOP SLAB AND AT CORNERS 'A' & 'C' OF END WALL.
3	c	20	270		EXTRA BARS AT OUTER FACE OF BOTTOM SLAB AND AT CORNERS 'D' & 'F' OF END WALL.
4	d	25	270		BARS ON INNER FACE OF TOP SLAB.
5	e	20	270		BARS ON INNER FACE OF BOTTOM SLAB.
6	f	25	270		BARS ON INNER FACE OF END WALLS.
7	g	20	270		EXTRA BARS ON INNER FACE OF END WALLS.
8	h	20	270		BARS ON INTERMEDIATE WALL.
13	m	16	135		EXTRA BAR AT TOP SLAB PROJECTED PORTION FOR APPROACH SLAB AT 'A' & 'C'.
14	H1	12	130		HAUNCH BARS :- H1 - AT JOINTS 'D' & 'F'. H2 - AT JOINTS 'A', 'C' & 'E'. H3 - AT JOINTS 'B'.
15	D1	12	180		DISTRIBUTION BARS AT ALL THE FACES OF BARREL
16	S1	8	180		S1 - AT TOP SLAB FROM WALL FACES AS SHOWN IN DRAWING
17	S2	8	180		S2 - AT BOTTOM SLAB FROM WALL FACES AS SHOWN IN DRAWING
18	S3	10	180		S3 - AT OUTER WALLS FROM BOTH ENDS AS SHOWN IN DRAWING.
19	S4	8	180		S4 - AT INNER WALLS FROM BOTH ENDS AS SHOWN IN DRAWING.

NOTES:

- THE CLEAR CARRIAGE WIDTH OF ROAD ADOPTED IS 5.00 m & AS RIGHT ANGLED CROSSING.
- ANY PART OF RCC SHOULD NOT REST ON MADE UP SOIL, BLACK COTTON SOIL OR SWELLING TYPE SOIL IF IT HAPPENS SO, NECESSARY TREATMENT SHALL BE CARRIED OUT IN CONSULTATION OF COMPETENT AUTHORITY BEFORE EXECUTION.
- THE REINFORCEMENT SHALL BE TMT (FE-500 D) AND ONLY TESTED STEEL SHALL BE USED.
- LAPS OF REINFORCEMENT IF REQUIRED SHALL BE STAGGERED AND SHALL BE PROVIDED AS PER CL.26.2.5.1 OF IS: 456-2000, AND 304.6.3 OF IRC-21-2000 LAPS SHOULD NOT BE MORE THAN 20 % AT ANY POINT.
- 75 mm CLEAR COVER TO REINFORCEMENT SHALL INVARIABLY BE PROVIDED WITH SUITABLE ARRANGEMENT.
- EARTH PROFILE SHOWN IN THE DRAWING IS TENTATIVE, IT SHALL BE CARRIED OUT AS PER ACTUAL SITE CONDITIONS.
- ALL DIMENSIONS SHOWN ARE IN MILLIMETER EXCEPT OTHERWISE SPECIFIED.
- THE DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
- EXPANSION JOINT SHALL BE PROVIDED AS PER IS 3370 (PART-1) 2004, AS SHOWN IN DRAWING.
- WHERE AS THE EARTH FILLING/BACK FILLING & REQUIRED IT SHALL BE DONE USING SELECTED TYPE OF SOIL WITH PROPER DEGREE OF COMPACTION.
- THE AGGREGATES SHALL COMPLY WITH REFERENCE TO IS 383. THE MAXIMUM SIZE OF AGGREGATES (FINE AND COARSE AGGREGATES) SHALL BE AS SPECIFIED IN CLAUSE 5.3.3 OF IS 456-2000 LATEST REVISION.
- THE ENVIRONMENTAL EXPOSURE CONDITION SHALL BE AS PER "SEVERE CONDITION". AND THE MINIMUM CEMENT CONTENT IN THE COMPONENTS SHALL BE AS PER THAT GIVEN IN TABLE-5, IS 456-2000 LATEST REVISION.
- ALL THE HOOKS AND BENDS SHALL BE AS PER IS:2502 (LATEST REVISION).
- DISCREPANCY IF ANY, SHOULD BE GOT RECTIFIED BEFORE EXECUTION.



NOT OT SCALE

GOVERNMENT OF GUJARAT
N.W.R.W.S. & K. DEPT.

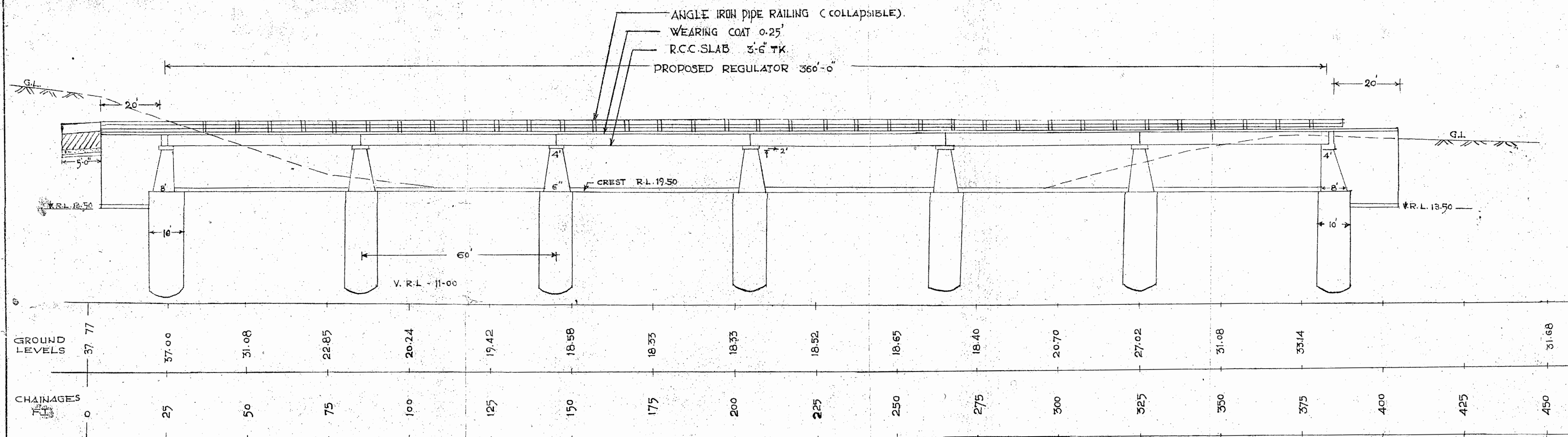
NAME OF WORK:
EPC work for Construction of Hydraulic
structure with bridge on River Dhadhar at
village-Magnad, Ta:Jambusar, Dist: Bharuch

R/F DETAILS OF VARIOUS
COMPONENTS

SUPERINTENDING ENGINEER
VADODARA IRRIGATION CIRCLE
VADODARA

EXECUTIVE ENGINEER
MEDIUM IRRIGATION PROJECT DIVISION
ANKLESHWAR

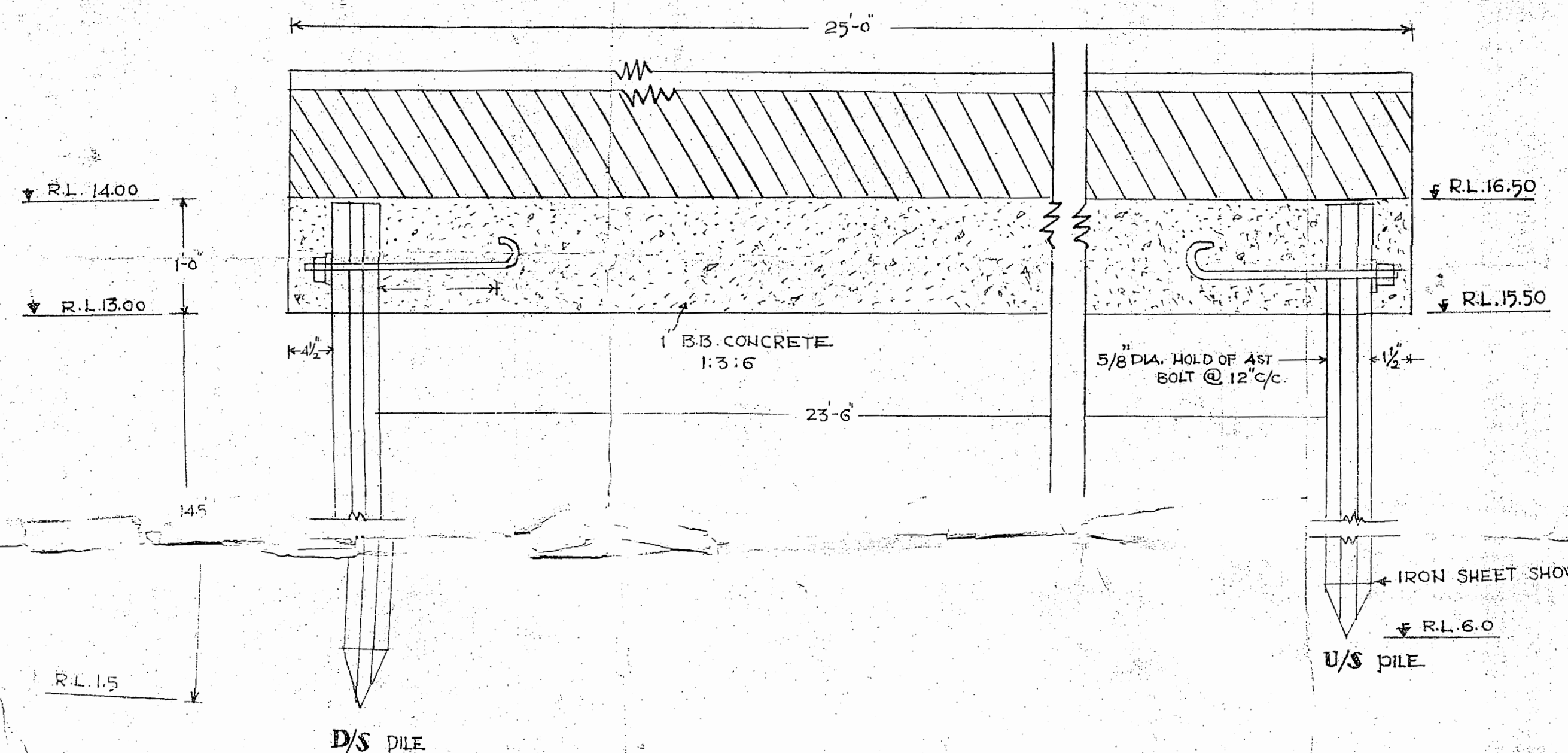
DEPUTY EXECUTIVE ENGINEER
IRRIGATION SUB DIVISION NO.17
ANKLESHWAR



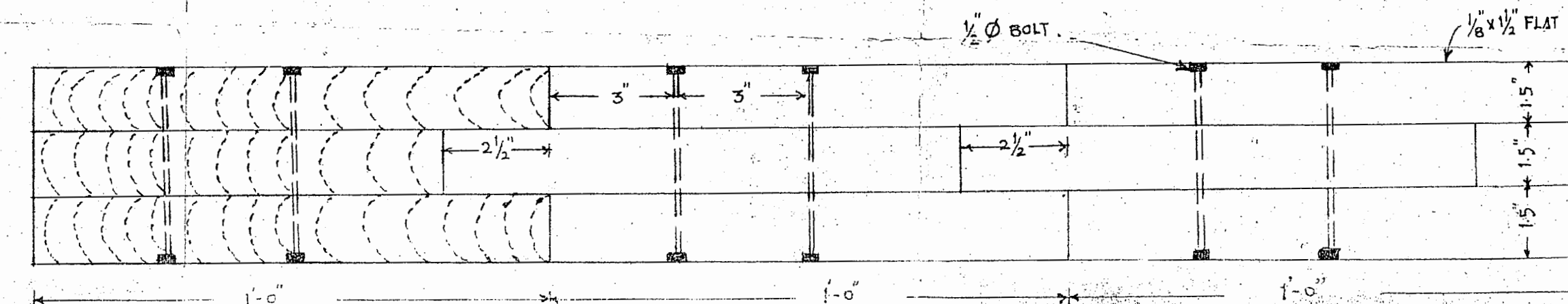
ELEVATION
SCALE: 1"=20'



ELEVATION OF D/S PILES
SCALE: 1"=2'



SECTION THROUGH PILES
SCALE: 1"=1'

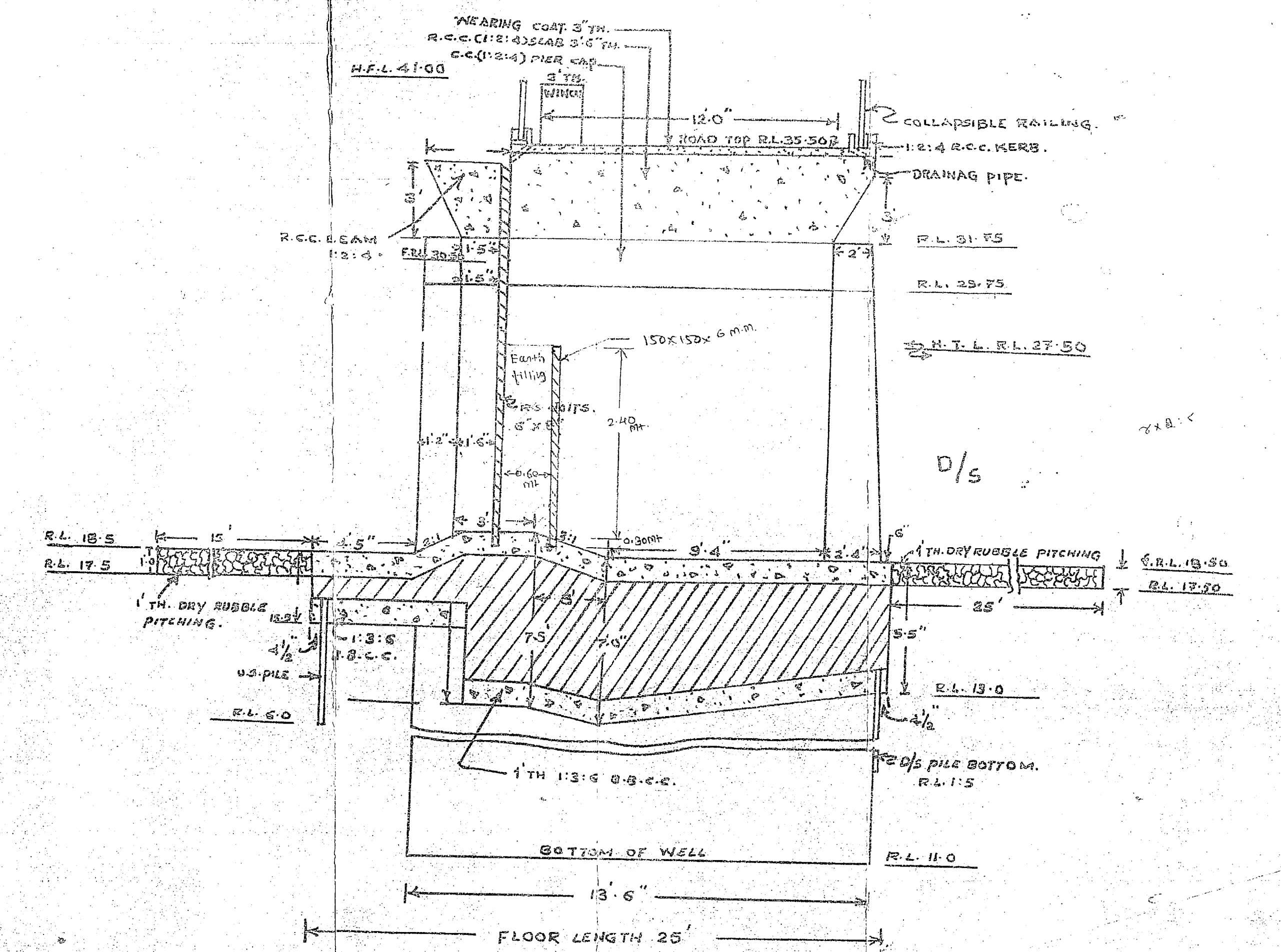


DETAILS OF PILES
SCALE: 4"=1'

CONSTRUCTING A REGULATOR ACROSS RIVER DHADHAR NEAR VILLAGE MAGNAD.

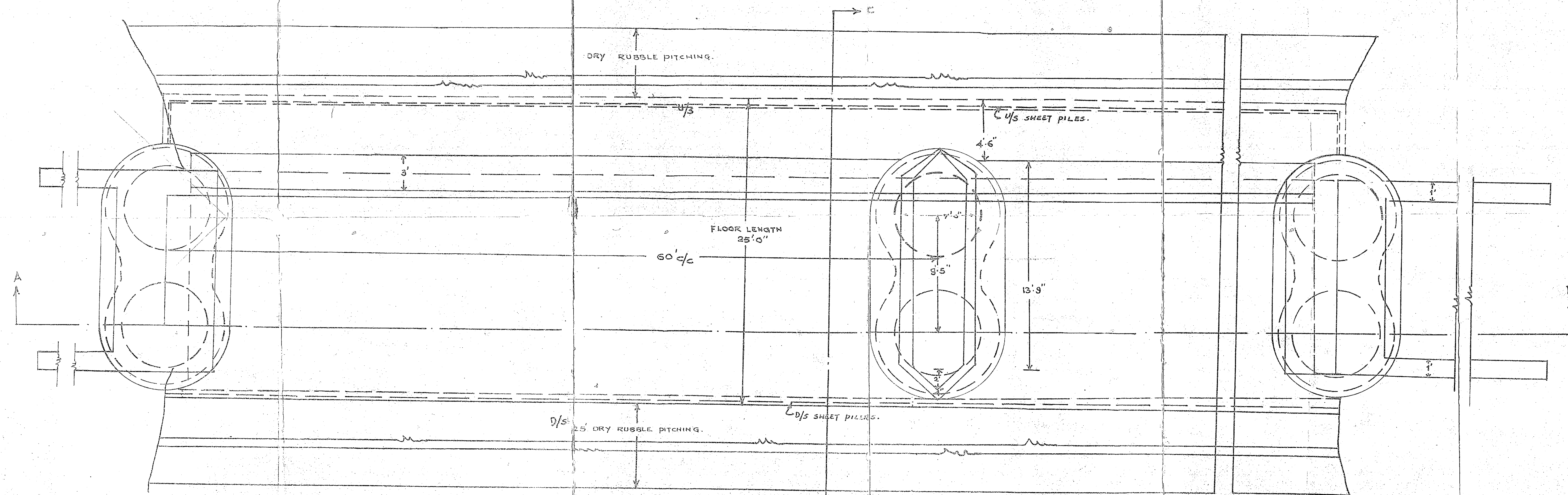
TALUKA: JAMBUSAR.

DISTRICT: BROACH.



SECTION ON 'CD'
SCALE: 1"=4'

SCALE = 1" = 4'



PLAN.

SCALE 1" = 4'

GOVERNMENT OF GUJARAT. IRRIGATION DEPARTMENT.			
NO. RR:-	PANCHAYAT IRR. DH. BHARUCH.		SCALE:
	CONSTRUCTING A		1" = 4'
Dt.:-	REGULAR ACROSS RIVER		
W/O:-	DHADHAR NEAR VILLAGE		
	MAGNAD. TAL-JAMBUSAR.		
	PLAN AND SECTION.		
DRAWN BY.	CHIEF ENGINEER (D), J.T. GECY, IRR. DEPT. GUJARAT STATE. GANDHINAGAR.		self
COM'D BY.	SUPERINTENDING ENGINEER, PANCHAYAT IRR. CIRCLE VADODARA.		self
CHECK'D BY.	EXECUTIVE ENGINEER PANCHAYAT IRR. DH. BHARUCH.		self
TRAC'D BY.	DEPUTY SDR. ENGINEER PANCHAYAT IRR. SDR. DH. JAMBUSAR.		self