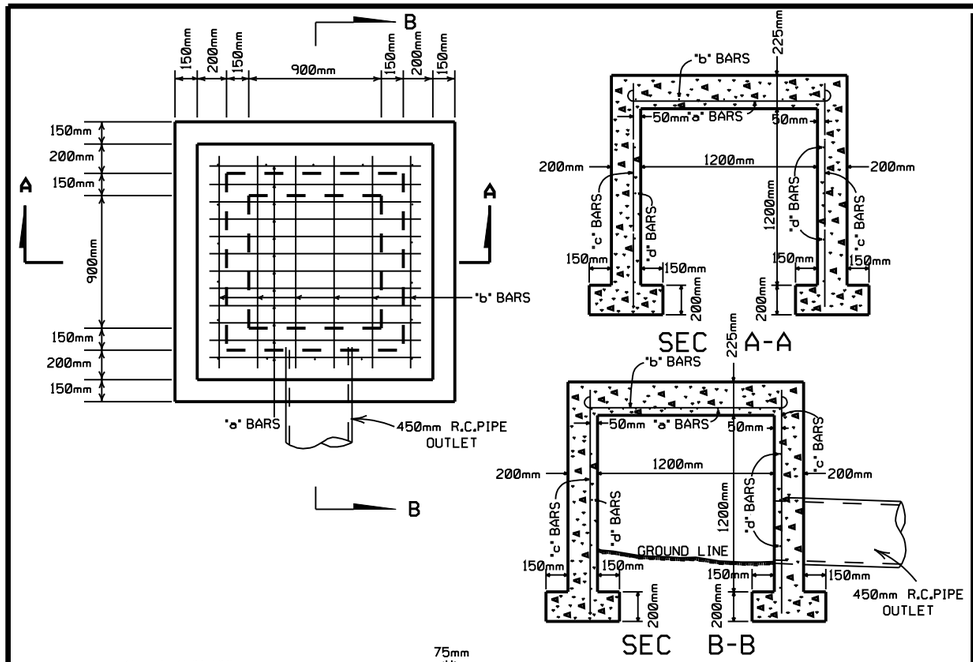
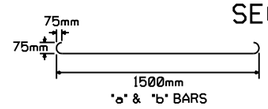


STEEL SCHEDULE

BARS	NUMBER	LENGTH mm	SPACING mm
"a"	11	1800	125
"b"	6	1800	250
"c"	16	1525	300
"d"	16	1500	300

ALL STEEL TO BE #13 BARS



QUANTITIES

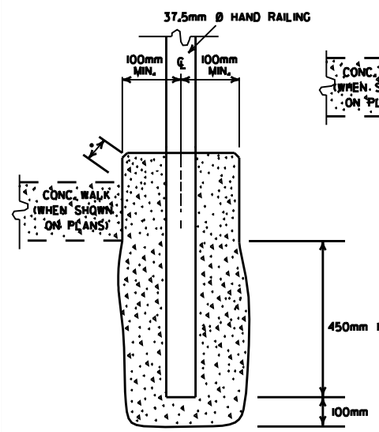
CONCRETE 2.58m^3
REINFORCING STEEL 79 kg.

GENERAL NOTE:

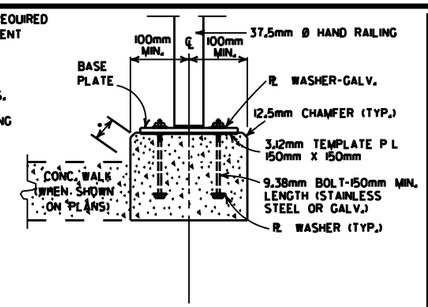
THE PAY ITEMS FOR REINFORCED CONCRETE SPRING BOXES SHALL BE FOR THE QUANTITIES OF CONCRETE OF THE CLASS SPECIFIED, REINFORCING STEEL, EXCAVATION FOR STRUCTURES AND 450mm R.C. PIPE CULVERT.

REINFORCED CONCRETE SPRING BOX

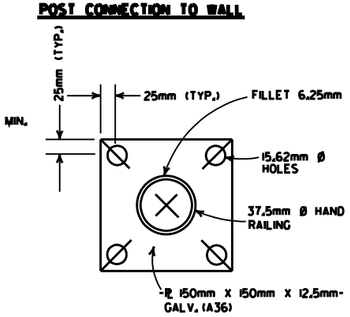
• A 50mm MIN. HIGH CURB IS REQUIRED WHEN CONCRETE WALK IS ADJACENT TO THE HAND RAILING. PAYMENT FOR CURB SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR CONCRETE WALKS.



DETAIL OF HAND RAILING SET IN CONCRETE

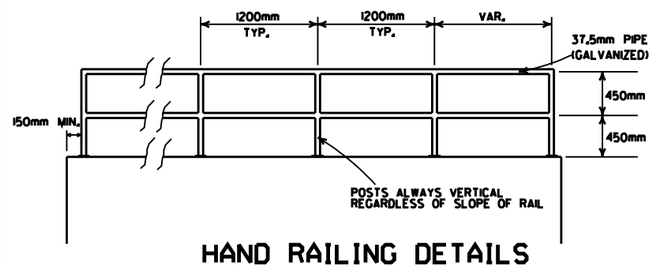


POST CONNECTION TO WALL

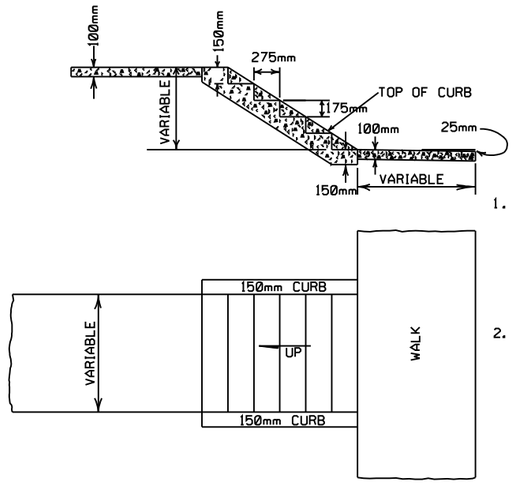


BASE PLATE

POST CONNECTION DETAILS



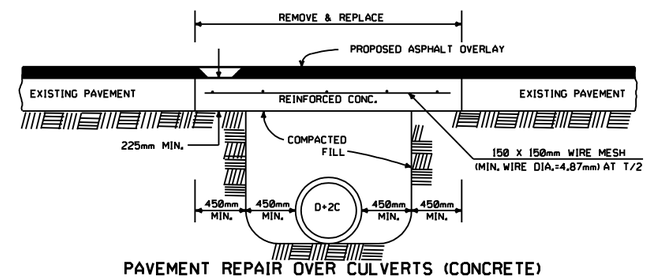
HAND RAILING DETAILS



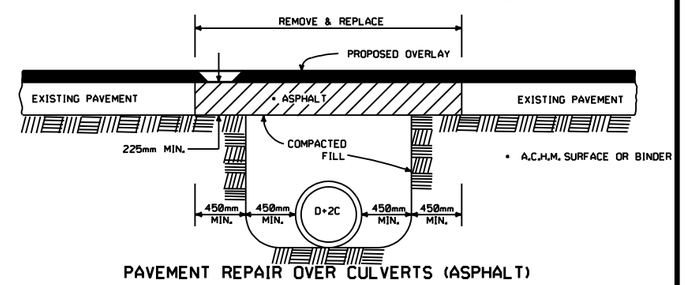
GENERAL NOTES

1. RISE AND TREAD DIMENSIONS OF STEPS MAY BE VARIED AS DIRECTED BY THE ENGINEER, HOWEVER, TREAD WIDTHS SHALL BE 275mm MIN. ALL STEPS IN A FLIGHT SHALL HAVE CONSISTENT TREAD & RISER DIMENSIONS.
2. TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE WALKS AT 13.5m INTERVALS.

DETAILS OF CONCRETE STEPS & WALKS



PAVEMENT REPAIR OVER CULVERTS (CONCRETE)



PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS

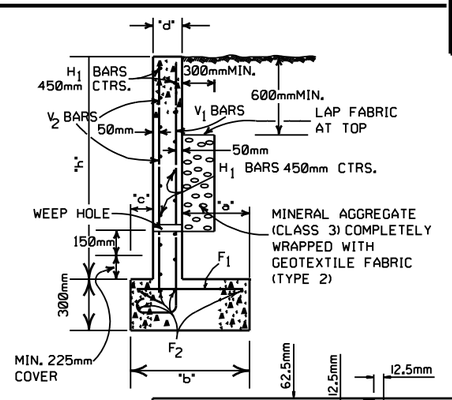
GENERAL NOTES

THE PAY ITEMS FOR THE CONSTRUCTION OF REINFORCED CONCRETE RETAINING WALL SHALL BE FOR THE QUANTITIES OF CONCRETE OF THE CLASS SPECIFIED, REINFORCING STEEL AND EXCAVATION FOR STRUCTURES.

MINERAL AGGREGATE WRAPPED WITH GEOTEXTILE FABRIC (CONTINUOUS) TO BE PLACED 300mm IN WIDTH AND 300mm IN HEIGHT AS A SUBSIDIARY ITEM TO THE VARIOUS PAY ITEMS.

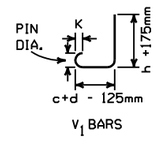
75mm WEEP HOLES (MAX. SPACING 3m CTRS.) TO BE PLACED WHERE SPECIFIED BY THE ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO PLACE CONTRACTION JOINTS ON 6m CENTERS AND EXPANSION JOINTS ON 18m CENTERS.

ALL EXPOSED EDGES TO BE CHAMFERED 19mm.



BENDING DIAGRAM

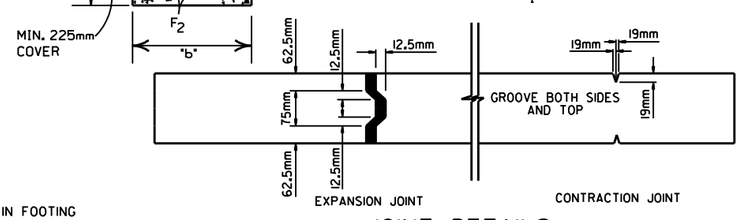
BAR SIZE	K	PIN DIA.
#13	120	76
#16	130	95



STEEL SCHEDULE

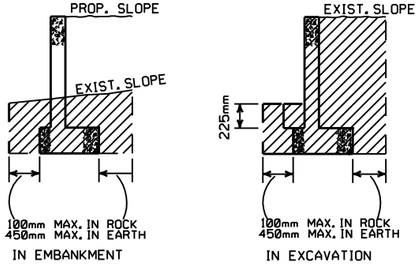
"c"	"d"	"h"	"a"	"b"	V_1 BARS SIZE	V_1 BARS SPACING	F_1 BARS SIZE	F_1 BARS SPACING	H_1 # 13 BARS SPAC.	V_2 # 13 BARS SPAC.	F_2 # 13 BARS NO. REQ'D.
200	200	300	200	600	#13	300	#13	450	450	450	5
200	200	600	200	600	#13	300	#13	450	450	450	5
200	200	900	200	600	#13	300	#13	450	450	450	5
200	200	1200	350	750	#13	300	#13	300	450	450	5
200	200	1500	500	900	#13	225	#13	225	450	450	5
200	200	1800	650	1050	#13	150	#13	150	450	450	6
300	200	2100	700	1200	#13	200	#13	200	450	450	6
300	200	2400	850	1350	#13	150	#13	150	450	450	6
375	250	2700	875	1500	#13	125	#13	125	450	450	6
425	250	3000	975	1650	#16	150	#16	150	450	450	7

ALL DIMENSIONS IN mm.

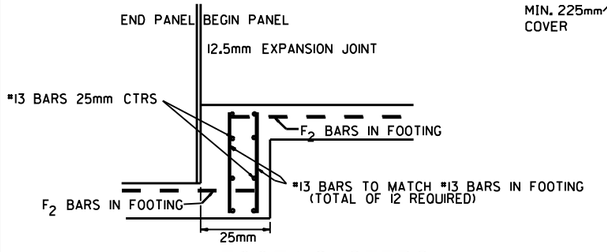


JOINT DETAILS

NOTE: JOINT MATERIAL SHALL BE PREFORMED MEETING THE REQUIREMENTS OF SUBSECTION 501.02(h) FOR TYPE 2



NOTE: HATCHED AREA DENOTES MAX. LIMITS OF EXCAVATION FOR STRUCTURES FOR RETAINING WALL.



FOOTING STEPS

REINFORCED CONCRETE RETAINING WALL

DATE	REVISION	DATE REVISED
4-17-08	REV. JOINT & FOOTING STEP DETAILS	
8-29-07	REVISED RETAINING WALL DRAINAGE	
5-25-06	REV. PVMT REPAIR OVER CULVERTS (CONC); REV. REINFORCED CONCRETE SPRING BOX	
10-9-03	REVISED PIPE RAILING DETAILS TO HAND RAILING DETAILS	
8-22-02	ADDED HAND RAILING DETAIL	
8-16-01	REV. PVMT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING IN GENERAL NOTES	
8-18-98	ADDED GENERAL NOTES TO CONCRETE STEPS & WALKS	
7-02-98	ENLARGED PIPE	
4-3-97	REVISED STEEL BARS TO SOFT METRIC REVISED STEEL SCHEDULE NOTE	
10-18-96	CORRECTED SPELLING	
4-26-96	ADD WEEP HOLE; REV. JOINT SPAC. IN RET. WALL	
7-20-95	CONVERTED TO METRIC	

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF SPECIAL ITEMS

STANDARD DRAWING SI-1 (M)

METRIC