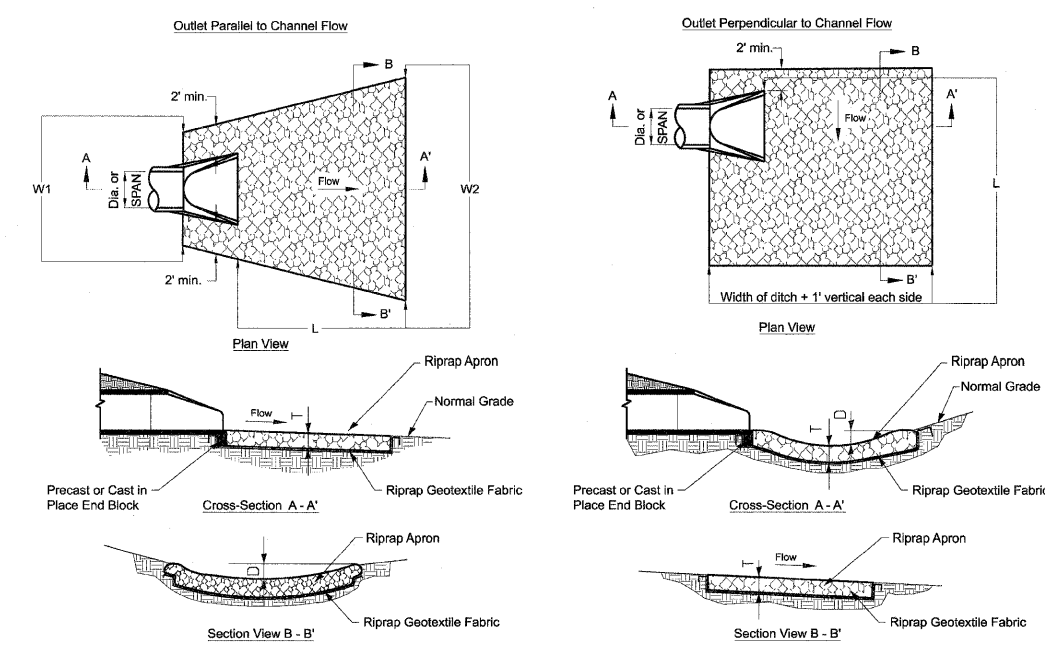


STUCTURE ID	PIPE DIAMETER	IDOT GRADATION	OUTLET DIR.	BED THICKNESS - T	APRON LENGTH - L	APRON WIDTH - W1	APRON WIDTH - W2	AREA	28100105	28100107	25100900	28200200
									STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A4	TURF REINFORCEMENT MAT	FILTER FABRIC
	[IN]			[IN]	[FT]	[FT]	[FT]	[SQ-YD]	[SQ-YD]	[SQ-YD]	[SQ-YD]	[SQ-YD]
264	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
284	18	RR-3	PARALLEL	15	25	5.5	13.5	26.39			26.39	26.39
304	21	RR-4	PARALLEL	15	18	6	16	22.00			22.00	22.00
328	15	RR-3	PARALLEL	15	14	5	12	13.22			13.22	13.22
344	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
345	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
387	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
393	18	RR-3	PERPENDICULAR	15	16	10		8.89			8.89	8.89
26100	12	RR-3	PARALLEL	15	12	5	11	10.67			10.67	10.67
26300	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
27300	12	RR-3	PARALLEL	15	12	5	11	10.67			10.67	10.67
32237	27 X 2	RR-4	PARALLEL	20	24	10	21	41.33		41.33		41.33
32600	24	RR-4	PARALLEL	15	20	6	16	24.44			24.44	24.44
32624	24	RR-4	PARALLEL	15	28	6	16	34.22			34.22	34.22
34834	-	RR-4	PERPENDICULAR	20	94	13		67.89		67.89		67.89
80910	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
180B	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
26193A	24	RR-4	PARALLEL	15	20	6	16	24.44			24.44	24.44
266A	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
26800A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
27496C	15	RR-3	PARALLEL	15	14	5	12	13.22			13.22	13.22
28600A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
288B	15	RR-3	PARALLEL	15	14	5	12	13.22			13.22	13.22
29000A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
29700A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
297B	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
30000A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
30300B	24	RR-4	PERPENDICULAR	15	20	10		11.11			11.11	11.11
31000A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
31650A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
32100A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
322A	4x2	RR-4	PARALLEL	20	24	8	19	36.00			36.00	36.00
32700A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
33000A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
33500A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
33750B	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
34250A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
34600A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
34700A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
34850A	36	RR-4	PERPENDICULAR	20	24	10		13.33			13.33	13.33
35000B	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
35150A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
35300A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
35450B	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
35600A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
35900A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
36300A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
36700A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
37203/37211	36 x 2	RR-4	PARALLEL	20	24	12	24	48.00		48.00		48.00
37700A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
37250	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
38210B	24	RR-4	PERPENDICULAR	15	20	10		11.11			11.11	11.11
38550A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
39000A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
39300A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
39550A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
396A	10	RR-3	PARALLEL	15	10	5	11	8.89			8.89	8.89
39750A	12	RR-3	PERPENDICULAR	15	12	10		6.67			6.67	6.67
41300C	36	RR-4	PERPENDICULAR	20	24	10		13.33		13.33		13.33
41350EXIST	48	RR-4	PARALLEL	20	30	8	24	53.33			53.33	53.33
80910	18	RR-3	PARALLEL	15	16	5.5	13.5	16.89			16.89	16.89
81100A	12	RR-3	PARALLEL	15	12	5	11	10.67			10.67	10.67
DC30284	12	RR-3	PARALLEL	15	12	5	11	10.67	10.67			10.67
DC31250	12	RR-3	PARALLEL	15	12	5	11	10.67	10.67			10.67
DC32053	12	RR-3	PARALLEL	15	12	5	11	10.67	10.67			10.67
DC32100	12	RR-3	PARALLEL	15	12	5	11	10.67	10.67			10.67
DC32484	12	RR-3	PARALLEL	15	12	5	11	10.67	10.67			10.67
TOTALS								895	53	171	725	949



ROCK OUTLET PROTECTION DETAIL
N.T.S.

DIA. OF ROUND INLET PIPE (in)	IDOT RIPRAP GRADATION (RR)	RIPRAP BED THICKNESS (in) T	APRON LENGTH (ft) L	APRON WIDTH UPSTREAM (ft) W1	APRON WIDTH DOWNSTREAM (ft) W2	DEPTH BELOW NORMAL GRADE (ft) D
12	RR-3	15.0	12.0	5.0	11.0	6.0
15	RR-3	15.0	14.0	5.0	12.0	6.0
18	RR-3	15.0	16.0	5.5	13.5	7.0
24	RR-4	15.0	20.0	6.0	16.0	10.0
30	RR-4	20.0	22.0	6.0	17.0	11.0
36	RR-4	20.0	24.0	7.0	19.0	11.0

SEE DRAINAGE PLAN AND PROFILE SHEETS FOR LOCATIONS BY STRUCTURE ID GIVEN ABOVE

FILE NAME = ... \D162419-shr-LAND-DET_01.dgn	DESIGNED - MJM	REVISED -	benesch	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL DETAILS			F.A.P. RTE. 365	SECTION (57 & 58)WRS-2	COUNTY	TOTAL SHEETS 681	SHEET NO. 343	
USER NAME = tb1enk	CHECKED - TJR	REVISED -			SCALE: N.T.S.	SHEET NO. 20 OF 20 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 12/7/2012	DATE = 12/6/10	REVISED -											
CONTRACT NO. 62419													