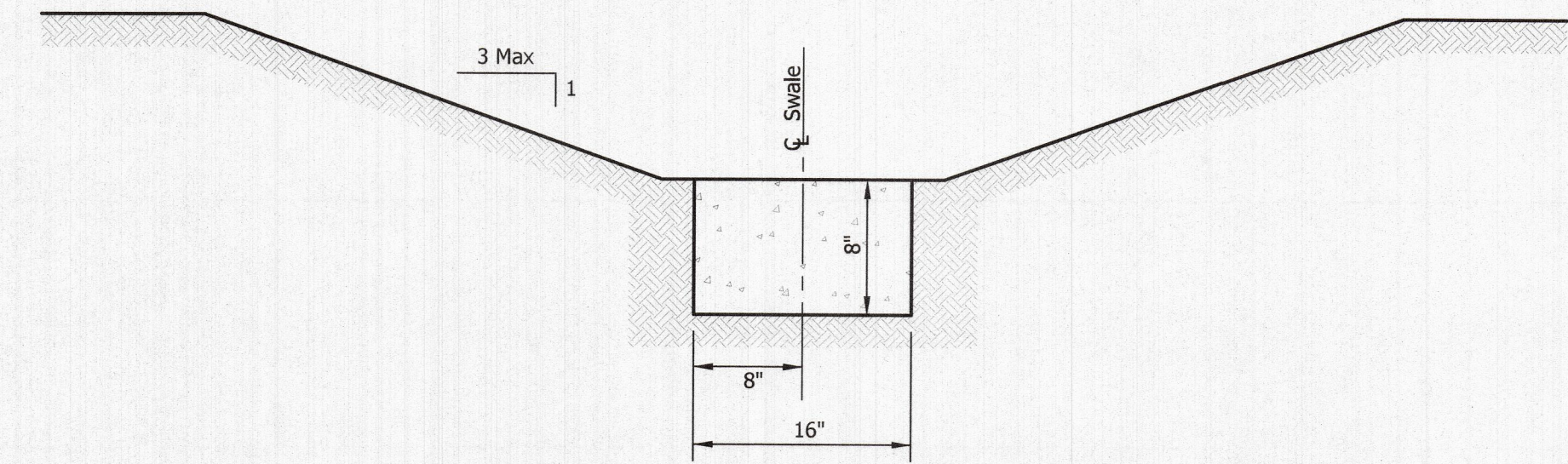
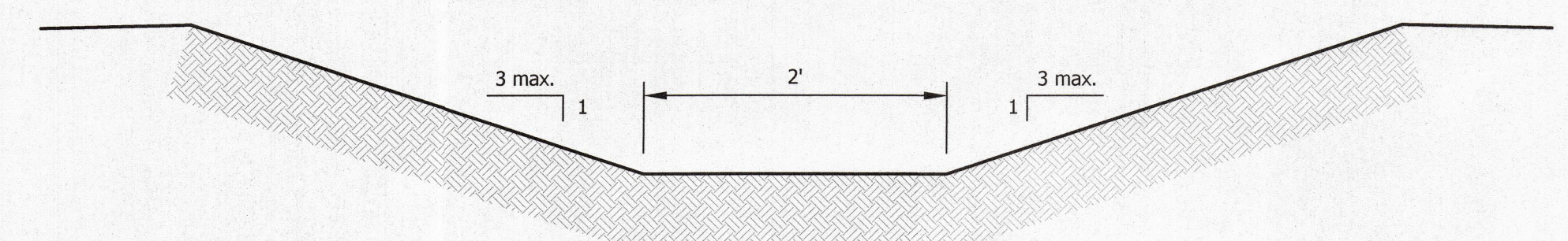


Swale Capacity Table																	
Side slope = 3 Manning's Coefficient = 0.035																	
Swale	Subbasin no.	Q(25) cfs	Channel Capacity (cfs)	Full Depth (ft/s)	% of Capacity	Slope (ft/ft)	Slope (%)	Length (ft)	Channel Depth (ft)	Bottom Width (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Travel Time (min)	US Elev.	DS Elev.
1.5	(OS-A)+3	9.15	24.44	4.89	0.37	0.0260	2.60	127.24	1.00	2.00	8.32	5.00	0.60	0.63	0.43	414.98	411.67
1.4	(OS-A)+3	9.15	13.53	2.71	0.68	0.0080	0.80	127.90	1.00	2.00	8.32	5.00	0.60	0.63	0.79	416.00	414.98
1.3	(OS-A)+3	9.15	22.57	4.51	0.41	0.0222	2.22	135.24	1.00	2.00	8.32	5.00	0.60	0.63	0.50	419.00	416.00
1.2	(OS-A)+3	9.15	33.75	6.75	0.27	0.0496	4.96	75.00	1.00	2.00	8.32	5.00	0.60	0.63	0.19	422.72	419.00
1.1	(OS-A)+3	9.15	14.85	2.97	0.62	0.0096	0.96	37.50	1.00	2.00	8.32	5.00	0.60	0.63	0.21	423.08	422.72
2	(OS-B)+7A	3.43	10.97	2.19	0.31	0.0052	0.52	263.50	1.00	2.00	8.32	5.00	0.60	0.63	2.00	423.08	421.70
3	(OS-C)+7B	5.05	8.27	1.65	0.61	0.0030	0.30	544.00	1.00	2.00	8.32	5.00	0.60	0.63	5.48	423.32	421.70
4.3	28	2.89	47.56	9.51	0.06	0.0985	9.85	24.87	1.00	2.00	8.32	5.00	0.60	0.63	0.04	417.11	414.86
4.2	28	2.89	13.52	2.70	0.21	0.0080	0.80	86.63	1.00	2.00	8.32	5.00	0.60	0.63	0.53	417.80	417.11
4.1	28	2.89	16.61	3.32	0.17	0.0120	1.20	474.23	1.00	2.00	8.32	5.00	0.60	0.63	2.38	423.50	417.80
5	10B	3.74	13.57	2.71	0.28	0.0080	0.80	284.50	1.00	2.00	8.32	5.00	0.60	0.63	1.75	412.28	410.00
6.2	10A	1.31	73.24	14.65	0.02	0.2336	23.36	22.73	1.00	2.00	8.32	5.00	0.60	0.63	0.03	411.81	406.50
6.1	10A	1.31	21.41	4.28	0.06	0.0200	2.00	72.62	1.00	2.00	8.32	5.00	0.60	0.63	0.28	413.26	411.81
7.2	16	4.56	18.72	3.74	0.24	0.0153	1.53	378.75	1.00	2.00	8.32	5.00	0.60	0.63	1.69	419.28	413.50
7.1	16	4.56	17.69	3.54	0.26	0.0136	1.36	126.25	1.00	2.00	8.32	5.00	0.60	0.63	0.59	421.00	419.28
8.2	31	5.25	18.00	3.60	0.29	0.0141	1.41	214.75	1.00	2.00	8.32	5.00	0.60	0.63	0.99	418.53	415.50
8.1	31	5.25	16.23	3.25	0.32	0.0115	1.15	215.25	1.00	2.00	8.32	5.00	0.60	0.63	1.11	421.00	418.53
9	45	6.66	13.53	2.71	0.49	0.0080	0.80	189.31	1.00	2.00	8.32	5.00	0.60	0.63	1.17	414.26	412.75
10.2	20	4.56	18.72	3.74	0.24	0.0153	1.53	378.75	1.00	2.00	8.32	5.00	0.60	0.63	1.69	419.28	413.50
10.1	20	4.56	17.69	3.54	0.26	0.0136	1.36	126.25	1.00	2.00	8.32	5.00	0.60	0.63	0.59	421.00	419.28
11.2	34	5.25	18.00	3.60	0.29	0.0141	1.41	214.75	1.00	2.00	8.32	5.00	0.60	0.63	0.99	418.53	415.50
11.1	34	5.25	16.23	3.25	0.32	0.0115	1.15	215.25	1.00	2.00	8.32	5.00	0.60	0.63	1.11	421.00	418.53
12	14	1.41	13.55	2.71	0.10	0.0080	0.80	112.62	1.00	2.00	8.32	5.00	0.60	0.63	0.69	408.40	405.50
13	23	3.76	13.55	2.71	0.28	0.0080	0.80	65.00	1.00	2.00	8.32	5.00	0.60	0.63	0.40	417.67	417.15
14.2	23	3.76	13.56	2.71	0.28	0.0080	0.80	89.86	1.00	2.00	8.32	5.00	0.60	0.63	0.55	417.12	416.40
14.1	3	2.03	20.86	4.17	0.10	0.0190	1.90	168.85	1.00	2.00	8.32	5.00	0.60	0.63	0.67	420.32	417.12
15	(OS-E)+39	4.59	13.55	2.71	0.34	0.0080	0.80	438.85	1.00	2.00	8.32	5.00	0.60	0.63	2.70	420.76	417.25
16.2	(OS-D)+40A	7.52	13.57	2.71	0.55	0.0080	0.80	234.40	1.00	2.00	8.32	5.00	0.60	0.63	1.44	418.38	416.50
16.1	(OS-D)+40A	7.52	13.56	2.71	0.55	0.0080	0.80	296.12	1.00	2.00	8.32	5.00	0.60	0.63	1.82	422.00	419.63
17	(OS-D)+40A	7.52	13.58	2.72	0.55	0.0080	0.80	108.27	1.00	2.00	8.32	5.00	0.60	0.63	0.66	419.17	418.30
18	(OS-D)+40B	4.70	13.56	2.71	0.35	0.0080	0.80	176.00	1.00	2.00	8.32	5.00	0.60	0.63	1.08	417.91	416.50
19	45	6.66	17.27	3.45	0.39	0.0130	1.30	269.47	1.00	2.00	8.32	5.00	0.60	0.63	1.30	417.00	413.50
20	48	2.58	17.50	3.50	0.15	0.0133	1.33	224.94	1.00	2.00	8.32	5.00	0.60	0.63	1.07	417.00	414.00

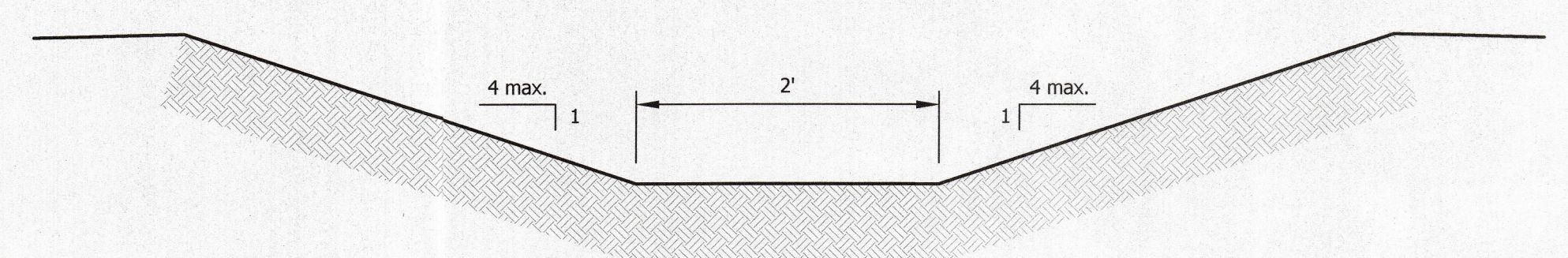


Typical Concrete Ribbon Swale Cross Section



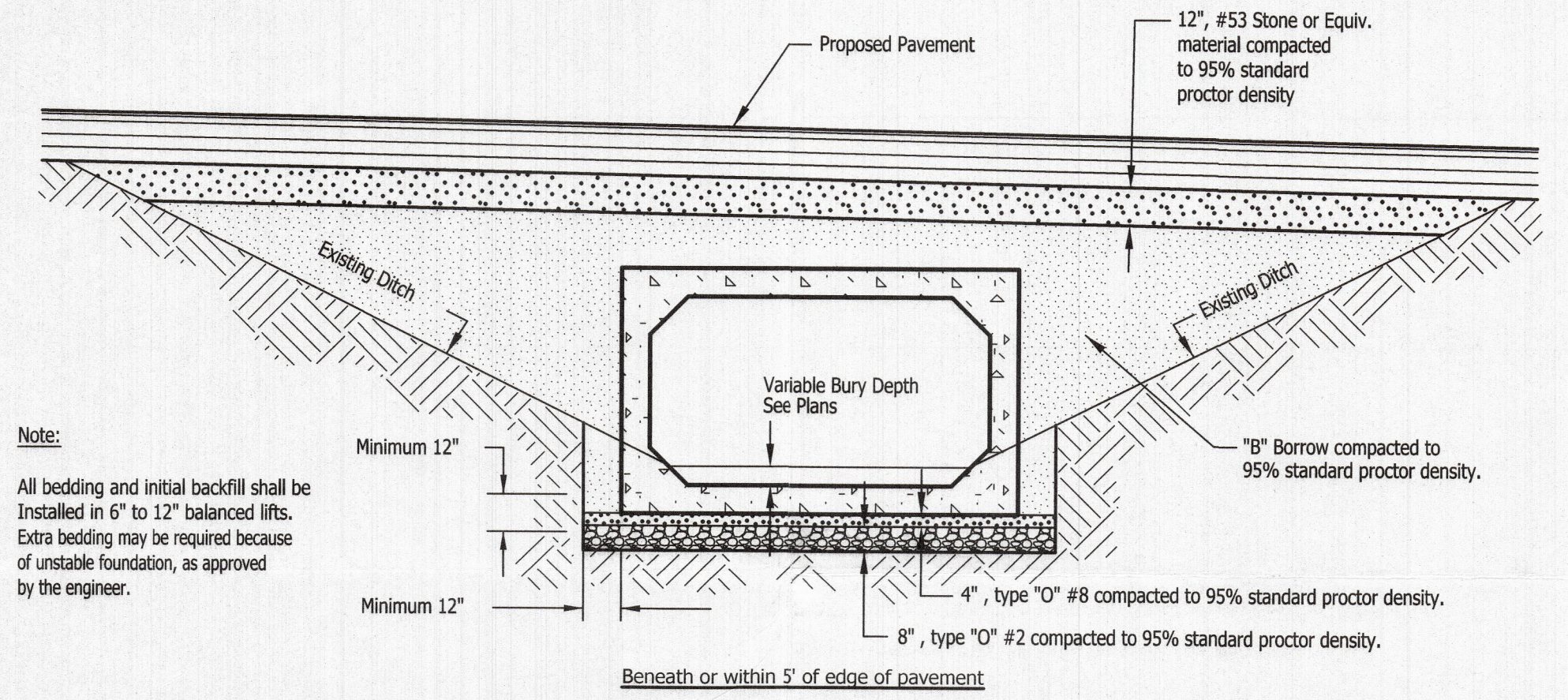
- Notes:
- Sod required if longitudinal slope is 4% or greater.
 - 8"x16" concrete ribbon required if longitudinal slope is less than 0.8%.
 - Rip-rap or erosion control blanket required on side slopes greater than 3:1. Refer to Erosion/Sediment Control Plan.

Typical Swale Cross Section

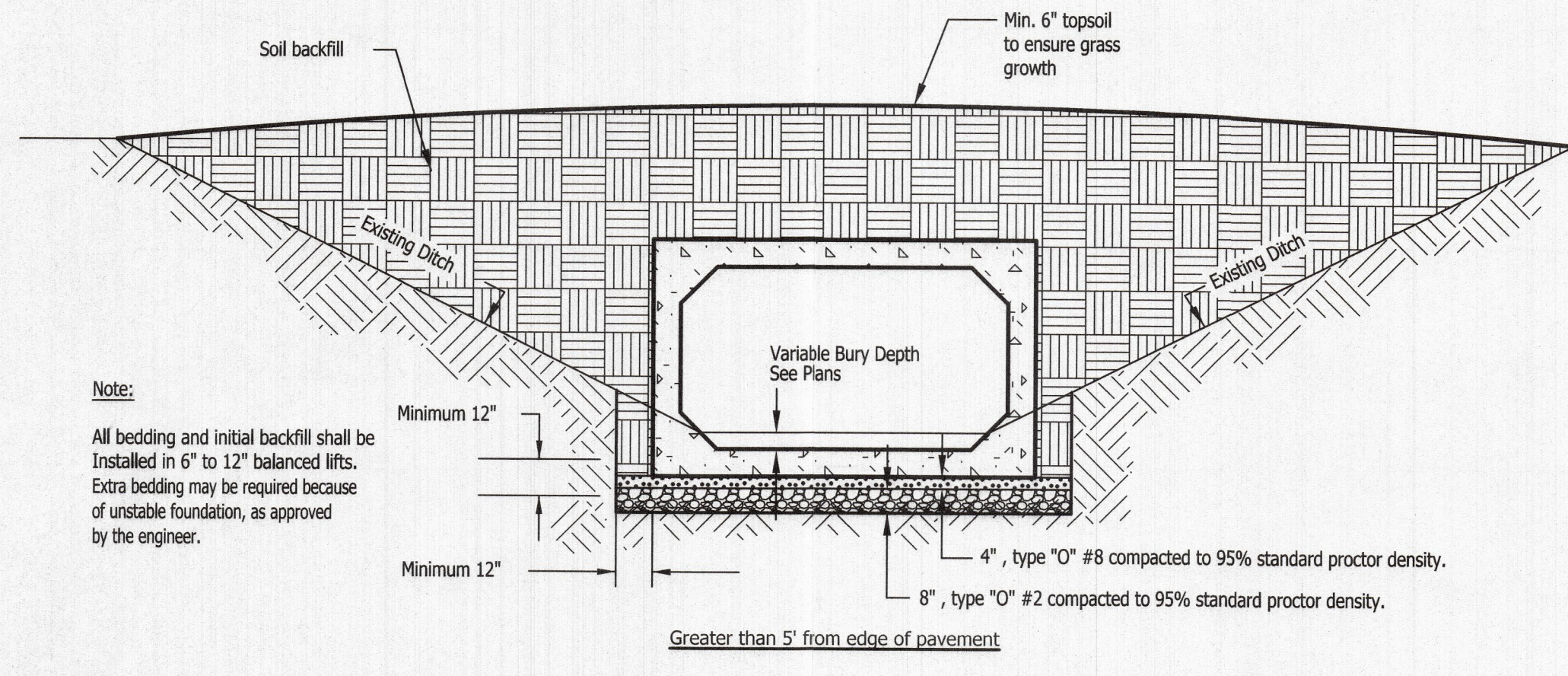


- Notes:
- Sod required if longitudinal slope is 4% or greater.
 - 8"x16" concrete ribbon required if longitudinal slope is less than 0.8%.
 - Rip-rap or erosion control blanket required on side slopes greater than 3:1. Refer to Erosion/Sediment Control Plan.
- Notes:
- Minimum Depth = 1.00' & Minimum Slope = 0.8% between Lots 29 & 30
 - Minimum Depth = 1.25' & Minimum Slope = 1.5% between Lots 17 & 18
 - Minimum Depth = 1.00' & Minimum Slope = 0.8% between Lots 12 & 13
 - Minimum Depth = 1.00' & Minimum Slope = 0.8% East of Lot 1
 - Minimum Depth = 1.00' & Minimum Slope = 1.5% South of DCI-702
 - Minimum Depth = 1.00' & Minimum Slope = 0.8% Southeast of CI-904

Typical Curb Inlet Overflow Weir Swale Cross Section



- Note:
- All bedding and initial backfill shall be installed in 6" to 12" balanced lifts. Extra bedding may be required because of unstable foundation, as approved by the engineer.



- Note:
- All bedding and initial backfill shall be installed in 6" to 12" balanced lifts. Extra bedding may be required because of unstable foundation, as approved by the engineer.

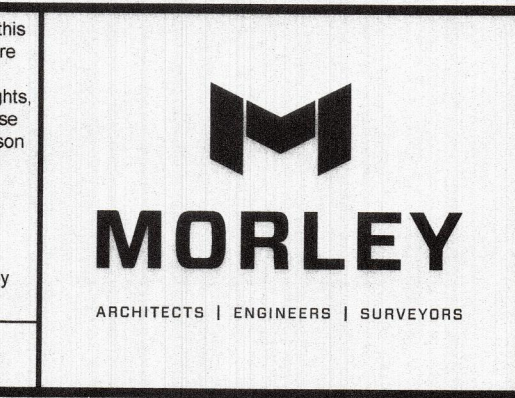
Box Culvert Storm Sewer Bedding

Received by the
Vanderburgh County
Surveyor's Office
APR 26 2022

Time 10:00 AM Initials AR



Revisions		
No.	By	Date



Project: Eleanor's Place		Scale: As Noted	
Sheet Title: Drainage Details - 4	Designed By: JEM	Job Number: 11822.4.001-B	Date: 4.26.2022
Vanderburgh County, IN		Drawn By: CRS	Date: 4.26.2022
		Filename: 11822 Civil Base	
		Sheet Number: C507	