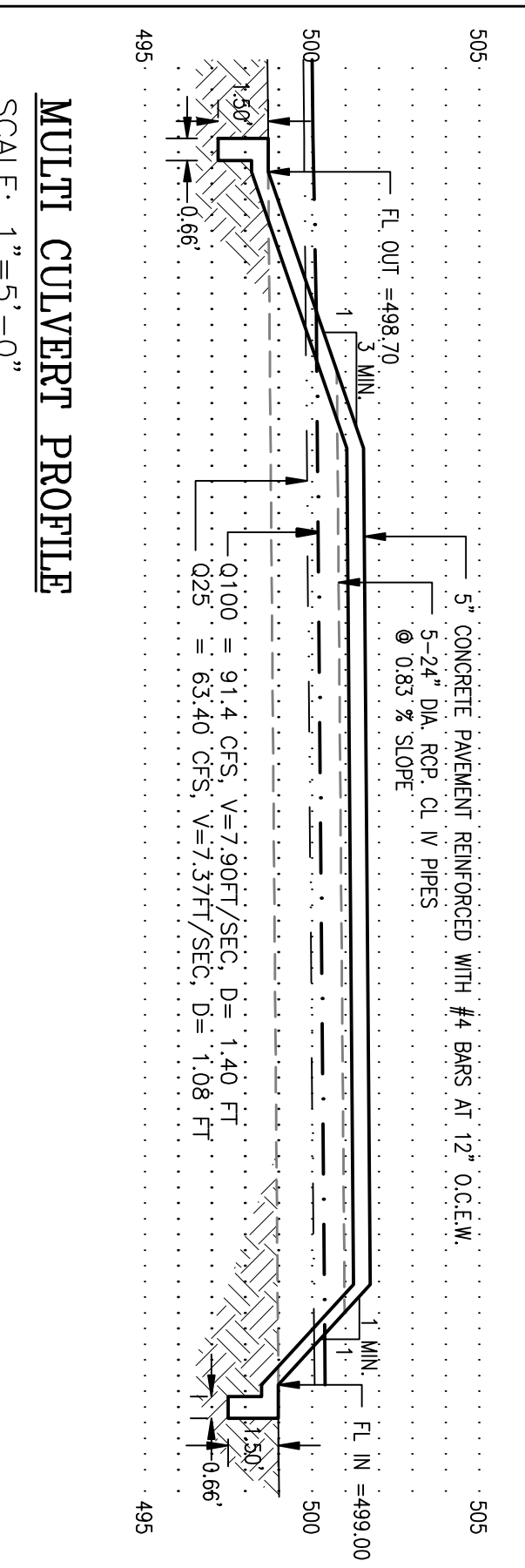
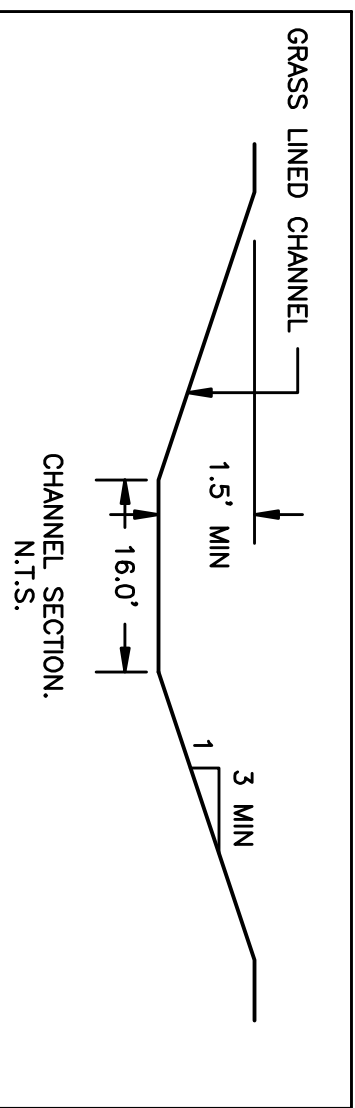
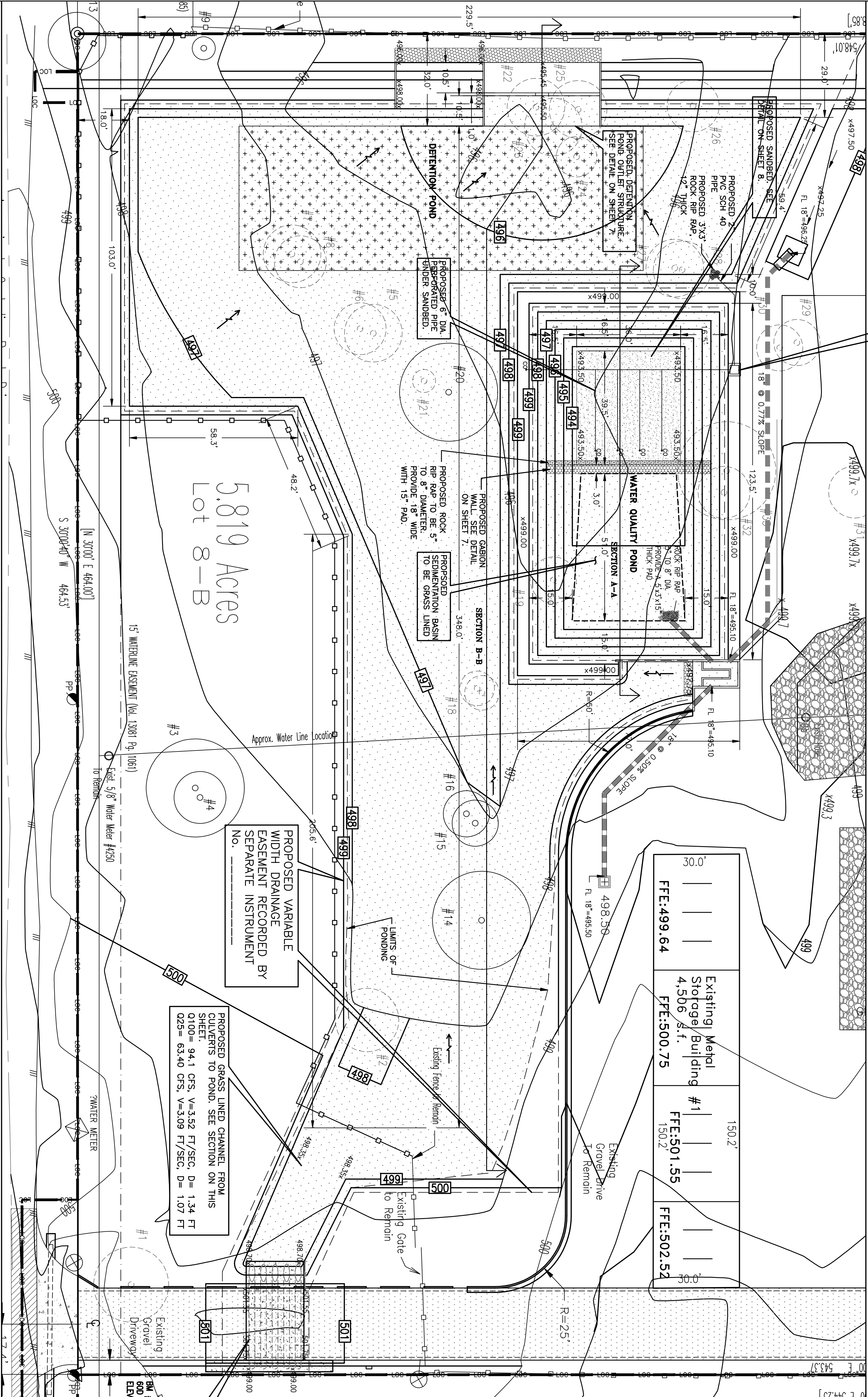


PROPOSED 4x4 CONCRETE CATCH BASIN, PUMP SYSTEM PER DETAIL ON SHEET 7. PROVIDE 2 PUMPS, VISUAL AND AUDIO ALARMS PER MANUFACTURER'S RECOMMENDATIONS.
FL IN 6" = 490.50
BASIN BOTTOM = 489.00
TOP OF BASIN = 499.50

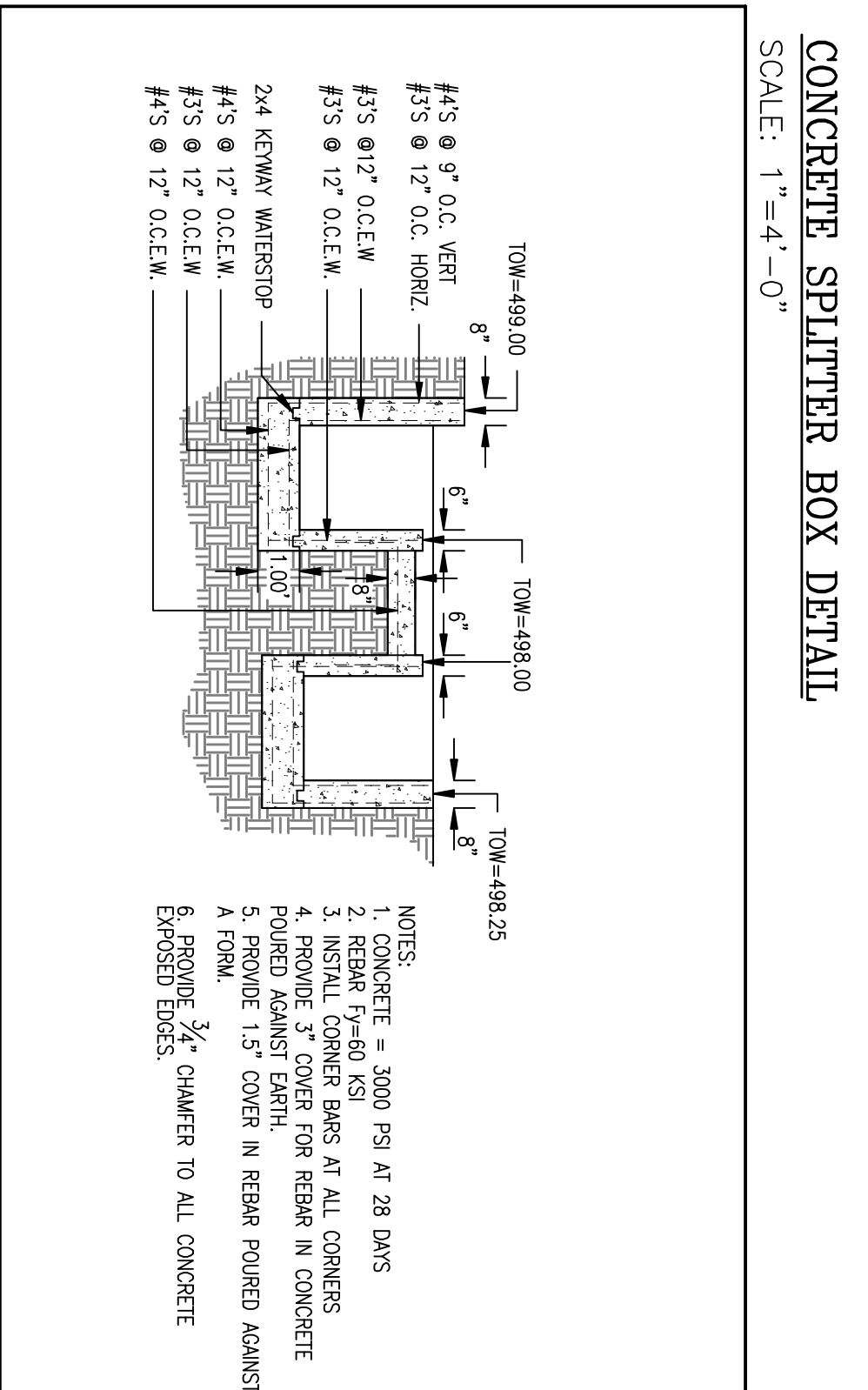
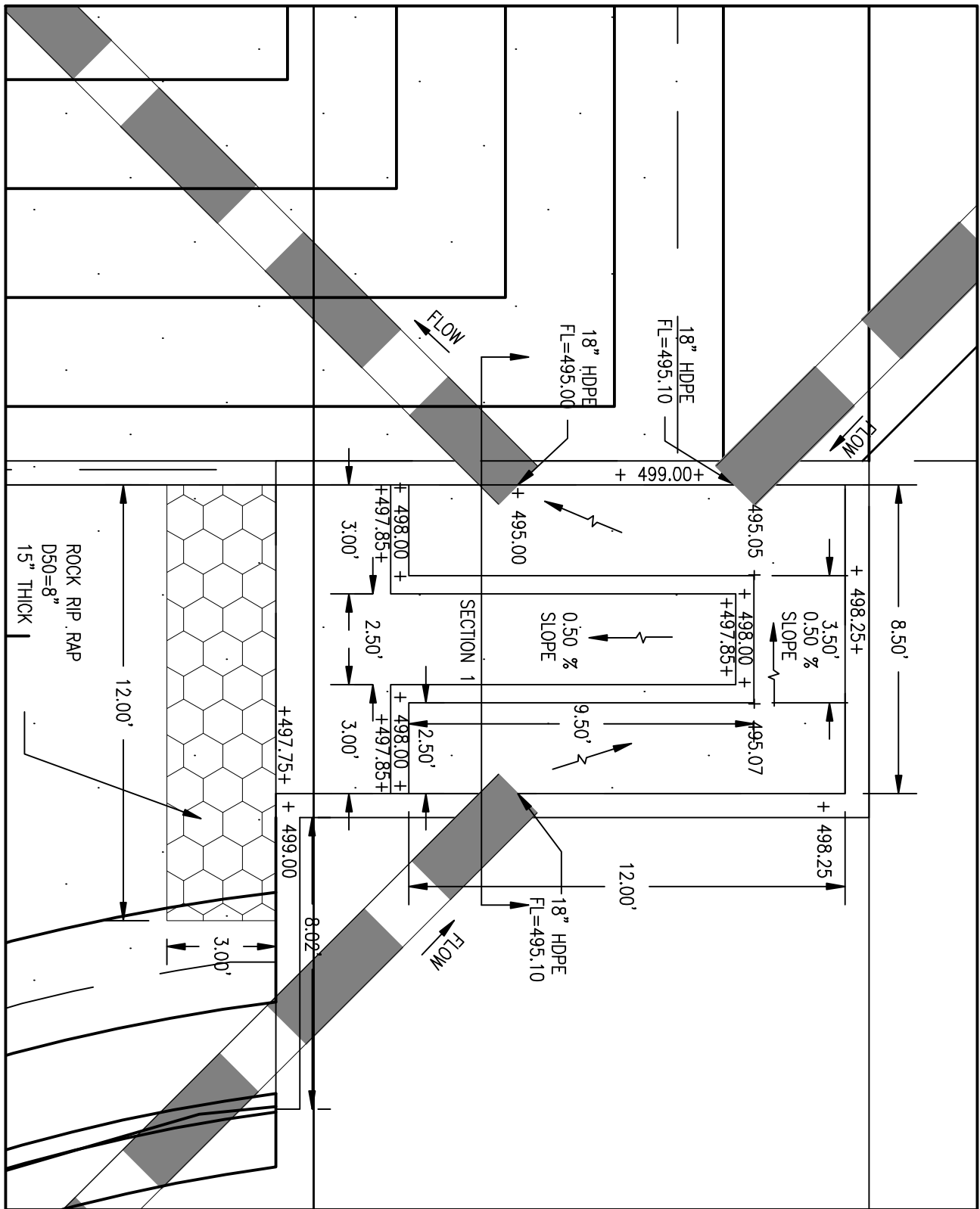


CHANNEL SECTION FROM DRIVEWAY TO POND											
Channel No.	Channel Type	Storm	DA Flow in	Bottom	Depth	Depth	Side Slope	Width	Slope	P	A
(ft)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(%)	(ft)	(%)	(ft)	(ft)
1	Grass Lined Channel	100 Yr	94.10	0.045	16.00	16.05	1:34	3	24.03	1.00%	24.46
2	Grass Lined Channel	25 Yr	63.40	0.045	16.00	12.82	1:07	3	22.41	1.00%	22.76

TIME OF CONCENTRATION CALCULATIONS - FULLY DEVELOPED UPSTREAM											
Project:	Burch Waterworks	Date:	Oct 10, 2014	Time:	10:00 AM	Location:	Lot 8-B	Area:	1.00	Perimeter:	1.00
Channel:	1	Channel Type:	Grass Lined	Channel Length:	1.00	Channel Width:	1.00	Channel Slope:	1.00%	Channel Area:	1.00

MULTI CULVERT PROFILE											
Stationing	1+00	1+25	1+50	1+75	2+00	2+25	2+50	2+75	3+00	3+25	3+50
Profile	499.50	499.50	499.50	499.50	499.50	499.50	499.50	499.50	499.50	499.50	499.50

APPENDIX B-3											
PARTIAL SEDIMENTATION/FILTRATION POND CALCULATIONS FOR DEVELOPMENT PERMITS											
WATER QUALITY CONTROL CALCULATIONS											
Pond # 1											
25 Year Design Peak Flow Rate to Control (Q25)											
100 Year Design Peak Flow Rate to Control (Q100)											
Sedimentation Volume (V _S) = 0.000000 cu ft											
Filtration Volume (V _F) = 0.000000 cu ft											
Total Volume (V _T) = 0.000000 cu ft											



APPENDIX B-3											
PARTIAL SEDIMENTATION/FILTRATION POND CALCULATIONS FOR DEVELOPMENT PERMITS											
WATER QUALITY CONTROL CALCULATIONS											
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Filtration Volume (V _F) = 0.000000 cu ft											
Total Volume (V _T) = 0.000000 cu ft											

APPENDIX B-3											
PARTIAL SEDIMENTATION/FILTRATION POND CALCULATIONS FOR DEVELOPMENT PERMITS											
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