Brookview

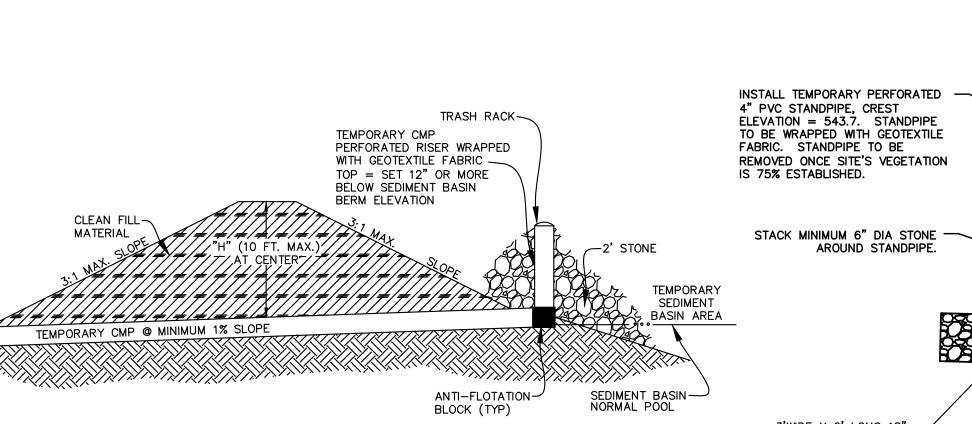
SEDIMENT BASIN CALCULATIONS **SEDIMENT BASIN #1**

SEDIMENT BASIN CALCULATIONS

=	11.93 ac.
=	3.13 ac.
=	15.06 c.f.
=	7.40 ac.
	= =

Volume Required = (Disturbed Area) X (3,600 c.f./ac.)

Sediment Basin #3 Area A1+A2+sqr(A1xA2) Volume |Volume Sum| Elevation (c.f.) (s.f.) 516.00 146 0 518.00 2,733 3,511 2,340 2,340 520.00 6,762 13,794 9,195 11,535 522.00 11,857 27,573 18,380 29,916 522.50 12,731 36,874 6,145 36,061 524.00 17,074 44,548 22,272 58,333 **Required Volume Achieved at Elevation:** 521.64 521.7 TOP OF STANDPIPE= FL OF STANDPIPE= 514.3 DOWNSTREAM FL OF CULVERT= 514.0



3'WIDE X 6' LONG 18"

DESIGNATION 7 STONE;

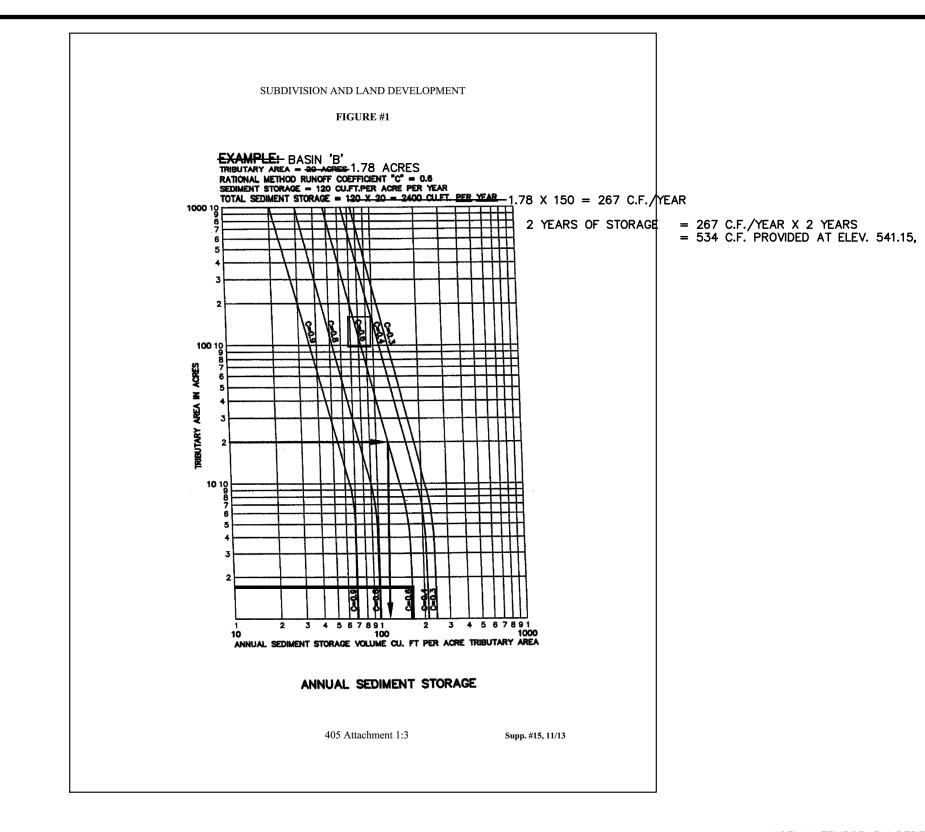
THICK MSD

STONE TO BE UNDERLAIN WITH GEOTEXTILE

= 26,640 c.f.

TEMPORARY SEDIMENT BASIN FOR "INITIAL SWPPP" CONDITIONS N.T.S.

BASIN	STANDPIPE	TOP OF STANDPIPE	FLOWLINE OF STANDPIPE	CULVERT	CULVERT LENGTH	FLOWLINE OF CULVERT
1	24" CMP	521.7	514.7	24" CMP	62 LF	514.0



— 10" ROUND GRATE

FOR USE WITH 8"

IN END OF 8" PVC. N/A FOR SWPPP

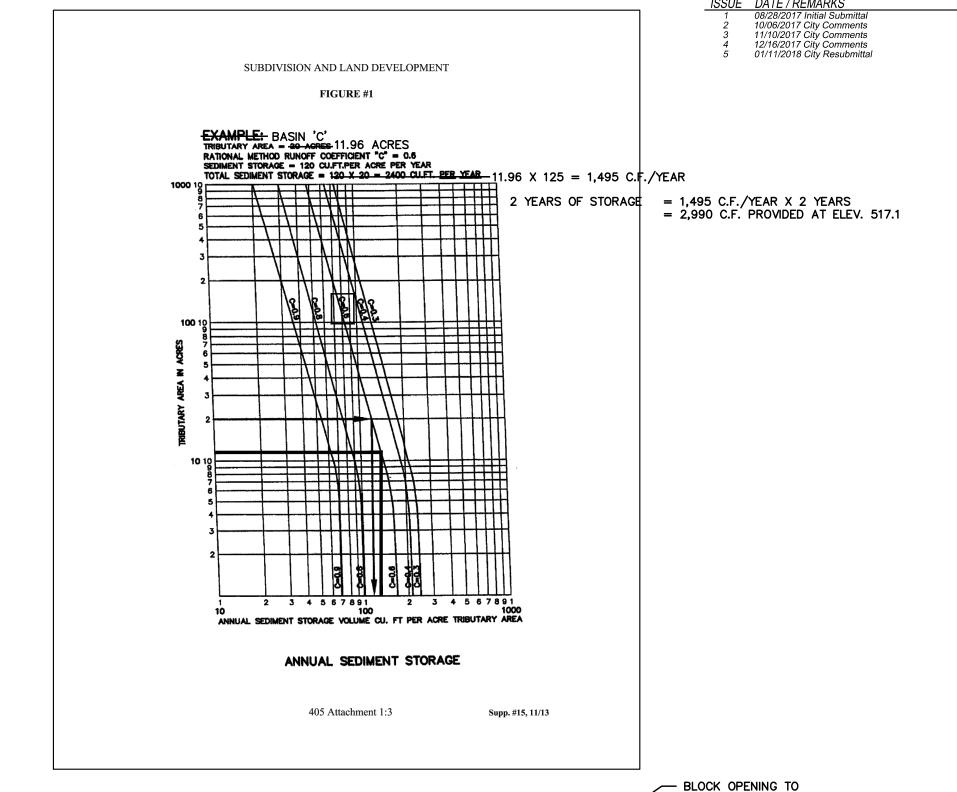
8" PVC FL=540.50

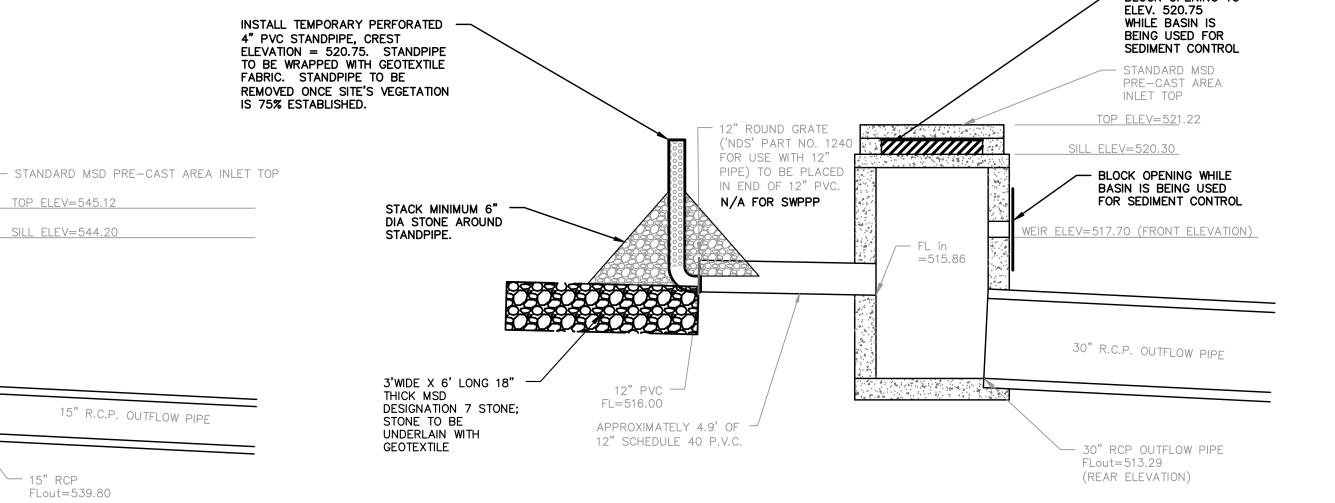
APPROXIMATELY 6.5' OF -

8" SCHEDULE 40 P.V.C.

PIPE) TO BE PLACED

('NDS' PART NO. 1040





OUTFALL STRUCTURE #202 (BASIN C)
SIDE VIEW MODIFIED FOR SEDIMENT CONTROL

DETENTION RUN WITH 2 YEARS OF SEDIMENT STORAGE IN BASINS

ROUTED Q'S						
	2 Year Q Outflow	15 Year Q Outflow	25 Year Q Outflow	100 Year Q Outflow		
Basin/Drainage Area	(cfs)	(cfs)	(cfs)	(cfs)		
Α	5.15	8.34	10.30	13.18		
В	0.55	0.89	1.09	1.4		
С	5.4	7.02	11.71	25.42		
D	0.65	1.06	1.31	1.67		
E	5.58	9.07	11.20	14.31		
F	0.63	1.02	1.25	1.60		
G	3.14	5.11	6.31	8.05		
TOTAL	21.10	32.50	43.17	65.63		
<u>.</u>	is less than	is less than	is less than	is less than		
EXISTING Q=	28.83	46.88	57.91	73.96		

─ 8" PVC

OUTFALL STRUCTURE #300 (BASIN B)

SIDE VIEW MODIFIED FOR SEDIMENT CONTROL

FLin=540.00

TOP ELEV=545.12

SILL ELEV=544.20

FLout=539.80

HIGHWATER ELEVATIONS & FREEBOARD

	Top of Berm Elevation	2 Year Storm HW ELEV.	2 Year Storm	15 Year Storm HW ELEV.	15 Year Storm	25 Year Storm HW ELEV.	25 Year Storm	100 Year Storm HW ELEV.	100 Year Storm
Basin	(Minimum)	(from PondPack)	Freeboard	(from PondPack)	Freeboard	(from PondPack)	Freeboard	(from PondPack)	Freeboard
В	546.00	544.23	1.77	544.25	1.75	544.26	1.74	544.27	1.73
С	522.50	519.22	3.28	520.08	2.42	520.52	1.98	520.9	1.60

Brookview

SEAN ACKLEY LICENSE # PE-2009018679 Civil Engineer

CALCULATIONS

P+Z No. 17-005894 **City No.** 17-008288 Date: 01/11/18 **Job No.** 17-02-041

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