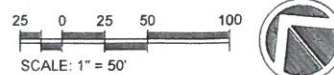


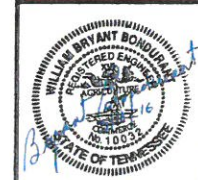
SW SEDIMENTATION BASIN



SW Sedimentation Basin	
Total Disturbed Area Draining to Basin	36 AC
Q for 5-Year, 24-Hour Storm	6.91 CFS
Q for 25-Year, 24-Hour Storm	9.28 CFS
Basin L:W Ratio	8:1 with baffles
Required Wet Storage Volume	130,248 CF
Provided Wet Storage Volume	135,000 CF
Bottom of Wet Storage Volume	417
Top of Wet Storage Volume	420
Required Dry Storage Volume	130,248 CF
Provided Dry Storage Volume	142,620 CF
Bottom of Dry Storage Volume	420
Top of Dry Storage Volume	422
Required Forebay Storage Volume	32,562 CF
Provided Forebay Storage Volume	39,420 CF
Time for Dewatering Dry Storage Volume	3 Days
Required Dewatering Discharge Rate	47,540 CF/Day
Provided Dewatering Discharge Rate	51,840 CF/Day*
Forebay Spillway Elevation	421.5
Water Elevation Over Spillway for 5-Year, 24-Hour Storm	421.88
Principal/Emergency Spillway Elevation	422
Water Elevation Over Spillway for 25-Year, 24-Hour Storm	422.62
Top of Outer Berm Elevation	425
Note: *Based on 6" Faircloth Skimmer	

NOTE: SEE SHEETS EPSC-10 & EPSC-11 FOR DETAILS

BWSC
 BARGE WAGGONER & SUMNER, INC.
 ARCHITECTS PLANNERS & ENGINEERS
 LANDSCAPE ARCHITECTS
 60 Germantown Court, Suite 100, Memphis, Tennessee 38108
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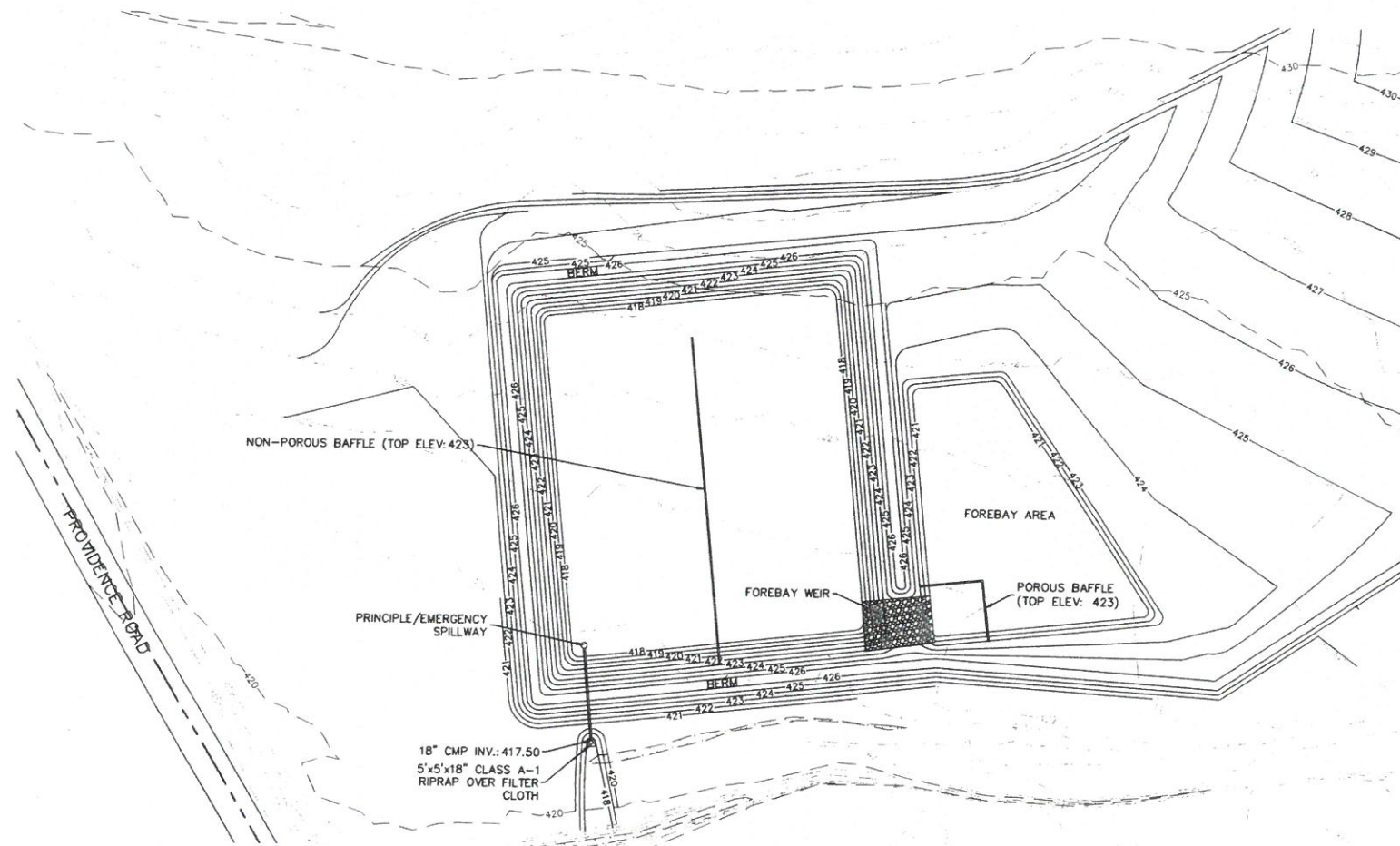


SEDIMENTATION BASIN
PROVIDENCE 20MW SITE
 Denmark, TN

DR.	CHK.	DATE	DESCRIPTION
	BB	3-16-16	ISSUED FOR CONSTRUCTION

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NW SEDIMENTATION BASIN

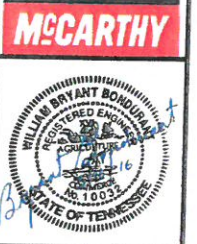
25 0 25 50 100
SCALE: 1" = 50'



NW Sedimentation Basin	
Total Disturbed Area Draining to Basin	37 Ac
Q for 5-Year, 24-Hour Storm	7.11 CFS
Q for 25-Year, 24-Hour Storm	9.54 CFS
Basin L:W Ratio	4.3:1 w/Baffle
Required Wet Storage Volume	133,866 CF
Provided Wet Storage Volume	141,000 CF
Bottom of Wet Storage Volume	418
Top of Wet Storage Volume	421
Required Dry Storage Volume	133,866 CF
Provided Dry Storage Volume	145,660 CF
Bottom of Dry Storage Volume	421
Top of Dry Storage Volume	423
Required Forebay Storage Volume	33,467 CF
Provided Forebay Storage Volume	38,160 CF
Time for Dewatering Dry Storage Volume	3 Days
Required Dewatering Discharge Rate	48,553 CF/Day
Provided Dewatering Discharge Rate	51,840 CF/Day*
Forebay Spillway Elevation	422.5
Water Elevation Over Spillway for 5-Year, 24-Hour Storm	422.88
Principal/Emergency Spillway Elevation	423
Water Elevation Over Spillway for 25-Year, 24-Hour Storm	423.64
Top of Outer Berm Elevation	426
Note: *Based on 6" Faircloth Skimmer	

NOTE: SEE SHEETS EPSC-10 & EPSC-11 FOR DETAILS

BWSC
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SEDIMENTATION BASIN
PROVIDENCE 20MW SITE
Denmark, TN

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EPSC-7