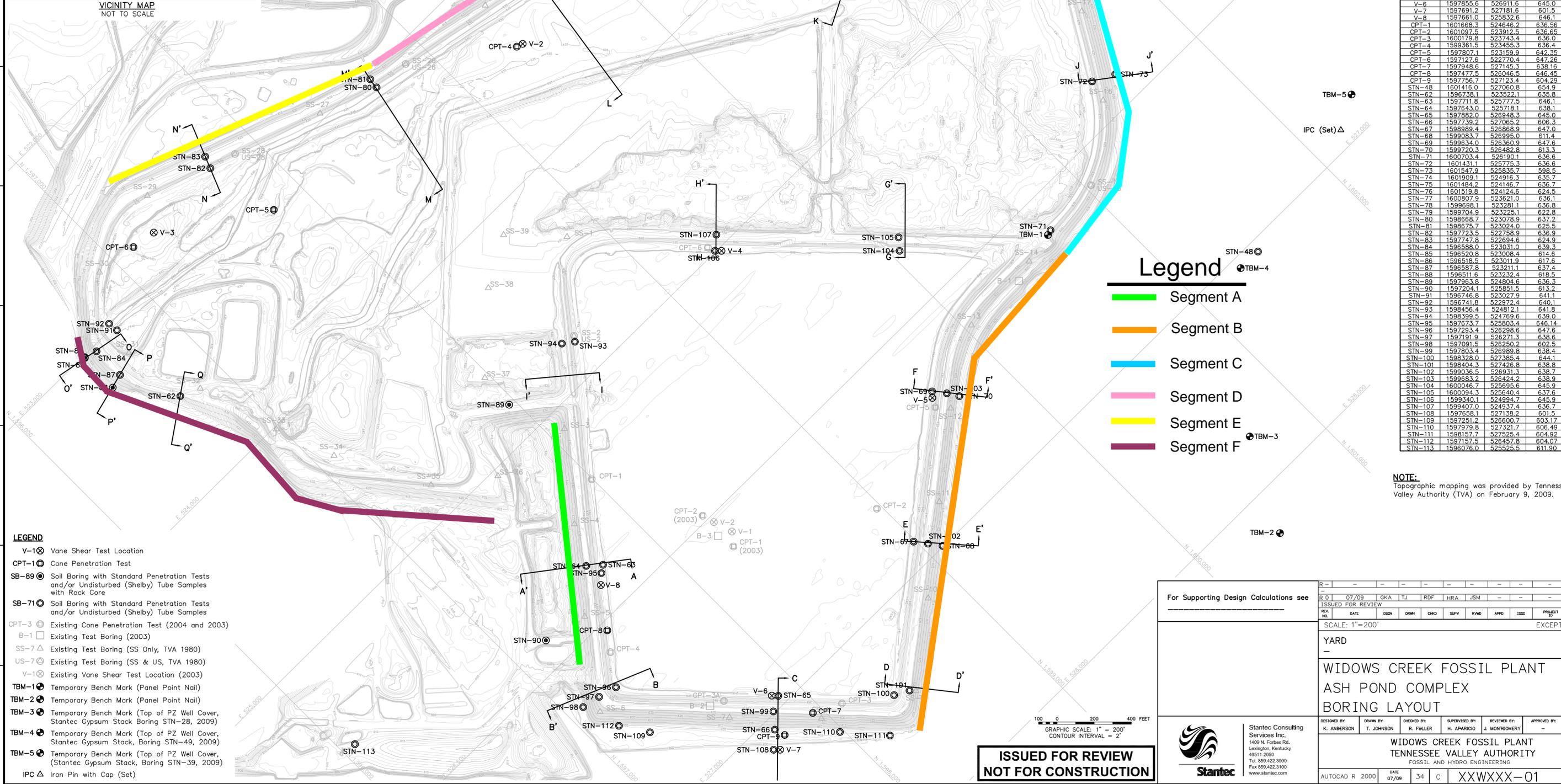


VICINITY MAP
NOT TO SCALE



SURVEY CONTROL TABLE			
Survey Point	Northing	Eastings	Elevation (Feet)
TBM-1	1,600,675.13	526,198.77	636.75
TBM-2	1,600,424.81	526,228.01	616.34
TBM-3	1,600,850.11	527,741.06	651.46
TBM-4	1,601,258.43	527,058.79	654.99
TBM-5	1,602,374.57	526,839.67	655.19
IPC (Set)	1,602,197.57	526,907.77	676.73

BORING LOCATION TABLE			
BORING	NORTHING	EASTING	ELEV. (FT.)
V-1	1600947.0	523864.1	636.0
V-2	1599381.1	523453.6	636.4
V-3	1597268.3	522789.7	636.0
V-4	1599385.6	525014.6	645.9
V-5	1599862.8	526325.4	647.6
V-6	1597855.6	526911.6	645.0
V-7	1597691.2	527181.6	601.5
V-8	1597661.0	525832.6	646.1
CPT-1	1601668.3	524646.2	636.56
CPT-2	1601097.5	523912.5	636.65
CPT-3	1600179.8	523743.4	636.0
CPT-4	1599361.5	523455.3	636.4
CPT-5	1597807.1	523159.9	642.35
CPT-6	1597127.6	522770.4	647.28
CPT-7	1597048.6	527145.3	638.16
CPT-8	1597477.5	526046.5	646.45
CPT-9	1597756.7	527123.4	604.29
STN-48	1601416.0	527060.8	654.9
STN-49	1596738.1	523522.1	635.8
STN-63	1597711.8	525777.5	646.1
STN-64	1597643.0	525718.1	638.1
STN-65	1597882.0	526948.3	645.0
STN-66	1597739.2	527065.2	606.3
STN-67	1598869.4	526868.9	647.0
STN-68	1599083.7	526995.0	611.4
STN-69	1599634.0	526360.9	647.6
STN-70	1599720.3	526482.8	613.3
STN-71	1600703.4	526190.1	636.6
STN-72	1601431.1	525775.3	636.6
STN-73	1601547.9	525835.7	598.5
STN-74	1601909.1	524916.3	635.7
STN-75	1601484.2	524146.7	636.7
STN-76	1601519.8	524124.6	624.5
STN-77	1600807.9	523621.0	636.1
STN-78	1599698.1	523281.1	636.8
STN-79	1599704.9	523225.1	622.8
STN-80	1598668.7	523078.9	637.2
STN-81	1598878.7	523024.0	625.5
STN-82	1597723.5	522758.9	636.9
STN-83	1597747.8	522694.6	624.9
STN-84	1596588.0	523031.0	639.3
STN-85	1596520.8	523008.4	614.6
STN-86	1596518.5	523011.9	617.6
STN-87	1596587.8	523211.1	637.4
STN-88	1596511.6	523232.4	618.5
STN-89	1597963.8	524804.6	636.3
STN-90	1597204.1	525851.5	613.2
STN-91	1596746.8	523027.9	641.1
STN-92	1596741.8	522972.4	640.1
STN-93	1598456.4	524812.1	641.8
STN-94	1598399.5	524769.6	639.0
STN-95	1597873.7	52503.4	646.14
STN-96	1597293.4	526298.6	647.6
STN-97	1597191.9	526271.3	638.6
STN-98	1597091.5	526250.2	602.5
STN-99	1597803.4	526989.8	638.4
STN-100	1598328.0	527385.4	644.1
STN-101	1598404.3	527426.8	638.8
STN-102	1599036.5	526931.3	638.7
STN-103	1599683.2	526424.2	638.9
STN-104	1600045.7	526956.6	645.9
STN-105	1600094.3	526840.4	637.6
STN-106	1599340.1	524994.7	645.9
STN-107	1599407.0	524937.4	636.7
STN-108	1597658.1	527138.2	601.5
STN-109	1597261.2	526600.7	603.17
STN-110	1597979.8	527321.7	606.49
STN-111	1598157.7	527525.4	604.92
STN-112	1597157.5	526457.8	604.07
STN-113	1596076.0	525525.5	611.90

Legend

- Segment A
- Segment B
- Segment C
- Segment D
- Segment E
- Segment F

- LEGEND**
- V-1 ⊗ Vane Shear Test Location
 - CPT-1 ⊕ Cone Penetration Test
 - SB-89 ⊕ Soil Boring with Standard Penetration Tests and/or Undisturbed (Shelby) Tube Samples with Rock Core
 - SB-71 ⊕ Soil Boring with Standard Penetration Tests and/or Undisturbed (Shelby) Tube Samples
 - CPT-3 ⊕ Existing Cone Penetration Test (2004 and 2003)
 - B-1 □ Existing Test Boring (2003)
 - SS-7 △ Existing Test Boring (SS Only, TVA 1980)
 - US-7 △ Existing Test Boring (SS & US, TVA 1980)
 - V-1 ⊗ Existing Vane Shear Test Location (2003)
 - TBM-1 ⊕ Temporary Bench Mark (Panel Point Nail)
 - TBM-2 ⊕ Temporary Bench Mark (Panel Point Nail)
 - TBM-3 ⊕ Temporary Bench Mark (Top of PZ Well Cover, Stantec Gypsum Stack Boring STN-28, 2009)
 - TBM-4 ⊕ Temporary Bench Mark (Top of PZ Well Cover, Stantec Gypsum Stack, Boring STN-49, 2009)
 - TBM-5 ⊕ Temporary Bench Mark (Top of PZ Well Cover, Stantec Gypsum Stack, Boring STN-39, 2009)
 - IPC △ Iron Pin with Cap (Set)

**ISSUED FOR REVIEW
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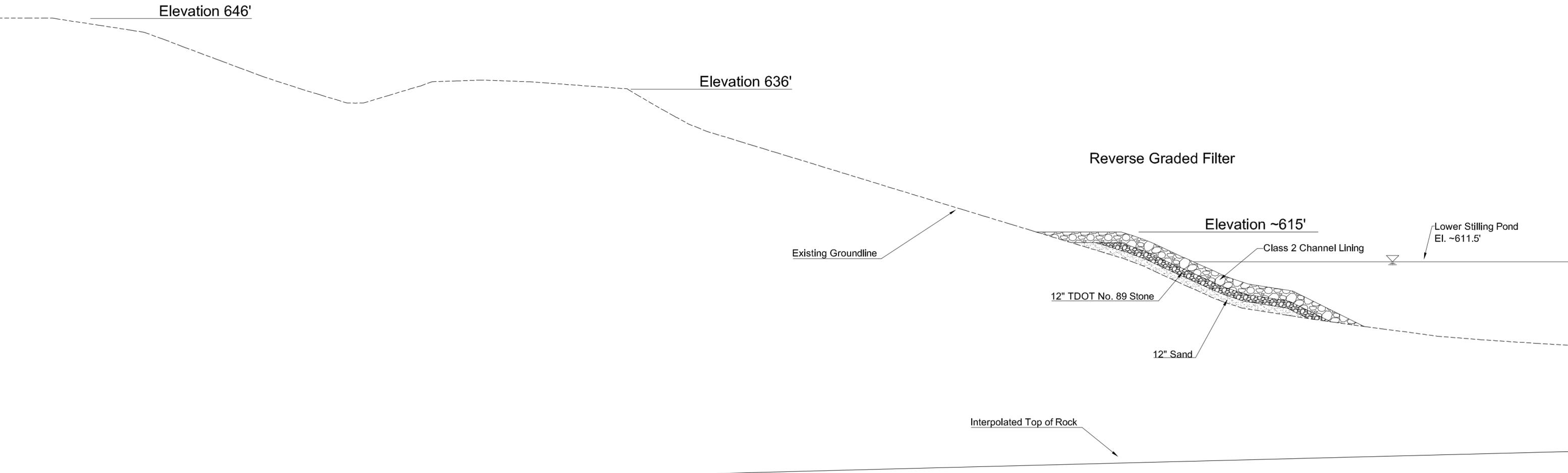
For Supporting Design Calculations see

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www.stantec.com

REV. NO.	DATE	DSGN	DRWN	CHKD	SRVY	RWMD	APPR	ISSD	PROJECT	AS CONST	DISCIPLINE
0	07/09	GKA	TJ	RDF	HRA	JSM			WIDOWS CREEK FOSSIL PLANT TENNESSEE VALLEY AUTHORITY		INTERFACE
SCALE: 1"=200'											
EXCEPT AS NOTED											
YARD											
WIDOWS CREEK FOSSIL PLANT ASH POND COMPLEX BORING LAYOUT											
DESIGNED BY:	DRWN BY:	CHKD BY:	SUPVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:					
K. ANDERSON	T. JOHNSON	R. FULLER	H. APARICIO	J. MONTGOMERY							
AUTOCAD R 2000											
DATE 07/09											
34 C XXWXXX-01 R 0											

STANTEC	0	PLOT FACTOR: XX	C.A.D. DRAWING
TASK COMPLETED BY:	REV NO.	W_TVA	DO NOT ALTER MANUALLY

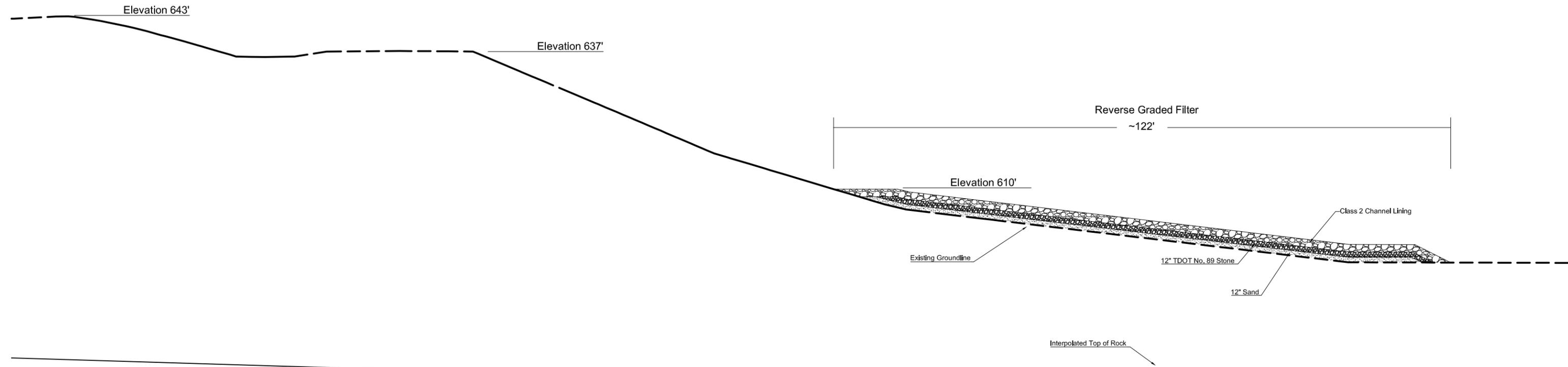
Segment A



Typical Section - Recommended Stack Improvements

N.T.S.

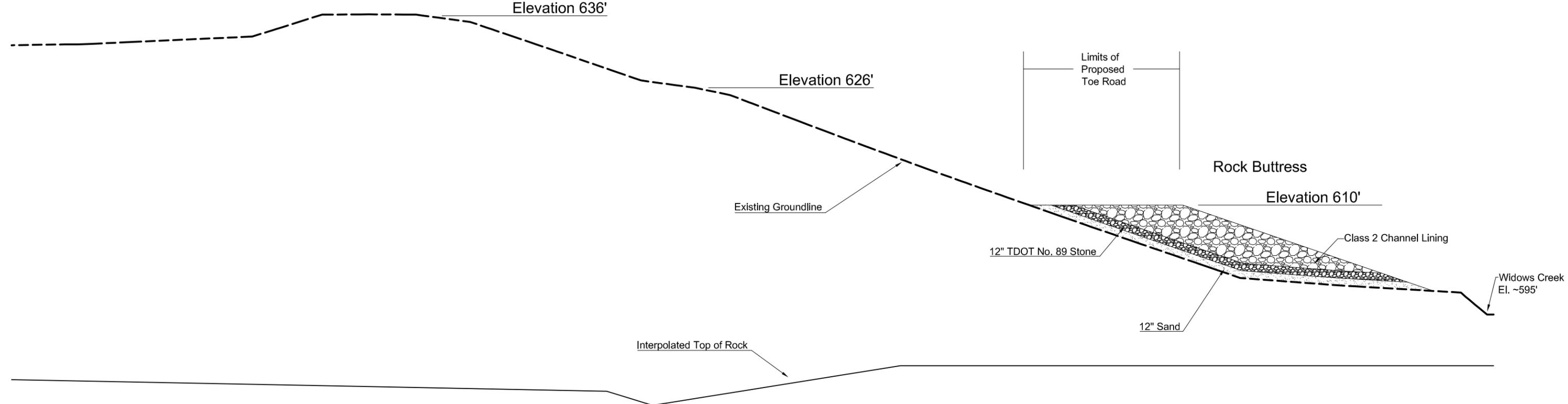
Segment B



Typical Section - Recommended Stack Improvements

N.T.S.

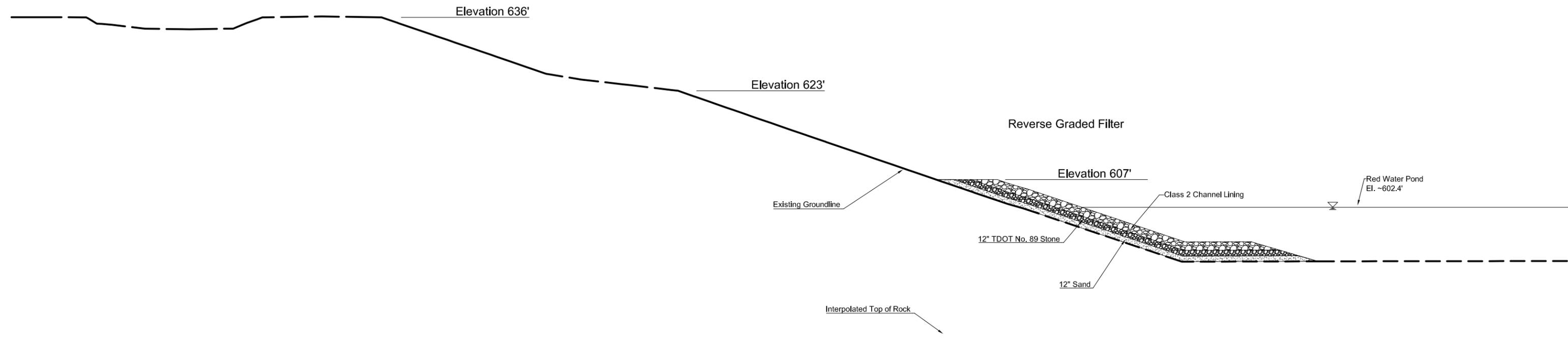
Segment C



Typical Section - Recommended Stack Improvements

N.T.S.

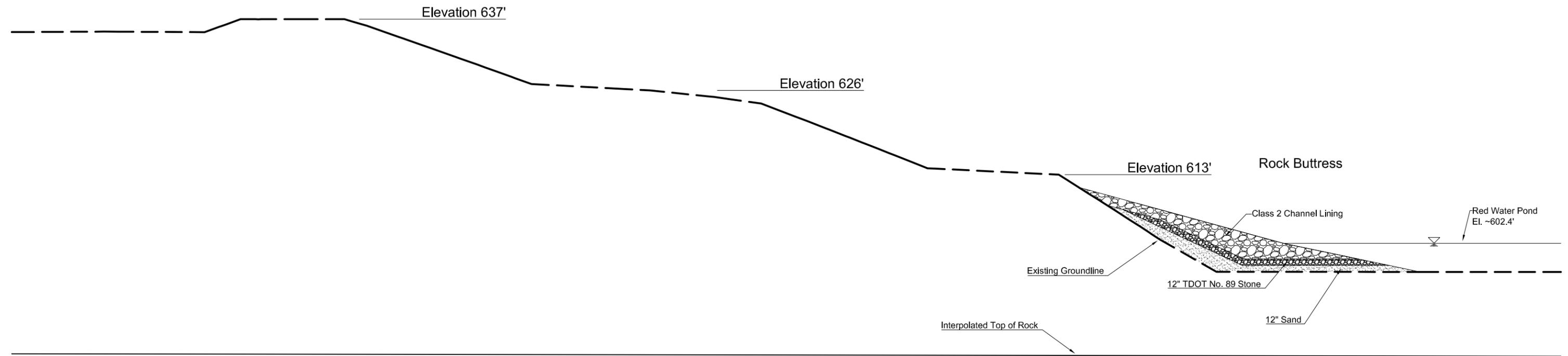
Segment D



Typical Section - Recommended Stack Improvements

N.T.S.

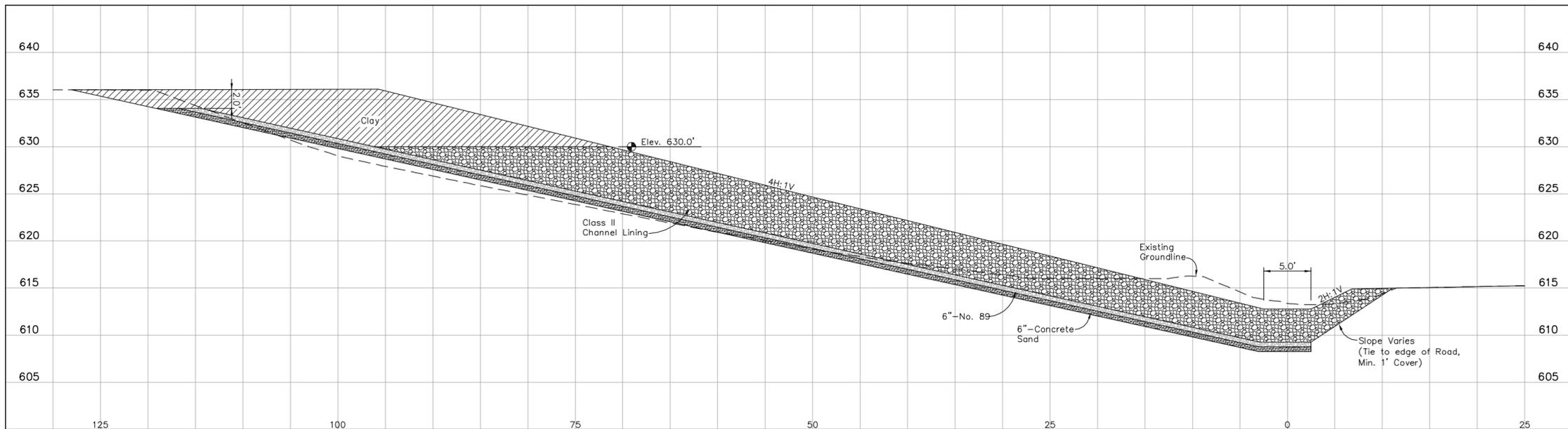
Segment E



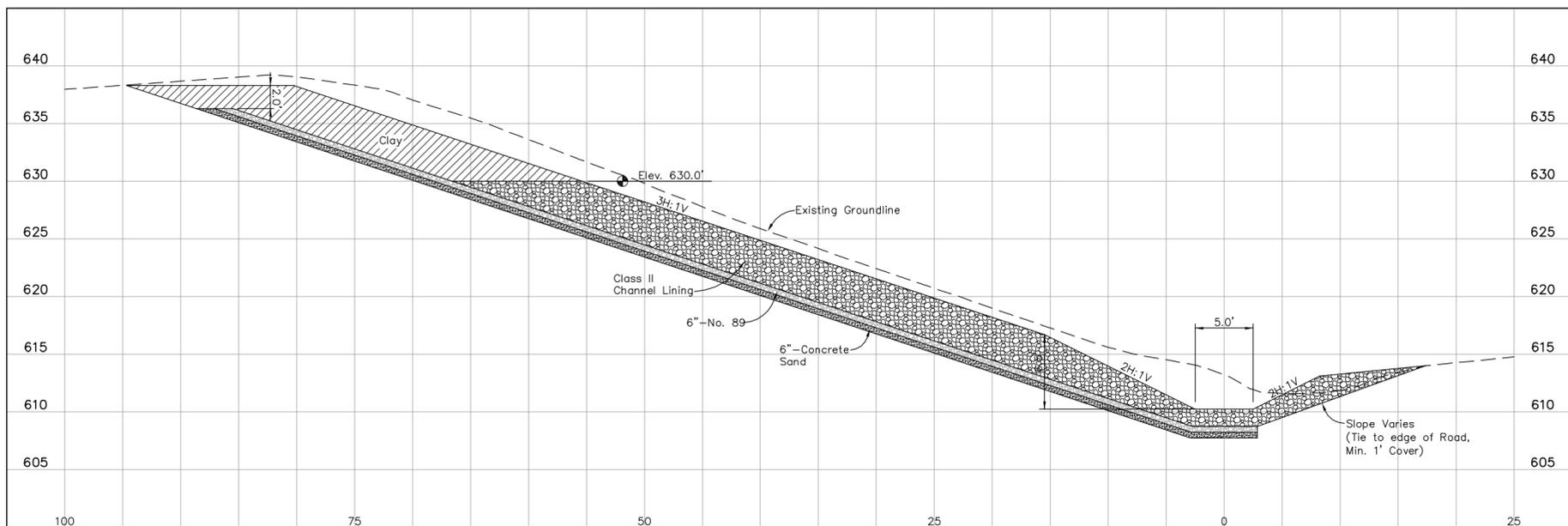
Typical Section - Recommended Stack Improvements

N.T.S.

Segment F



CROSS SECTION B-B'
SCALE: 1"=5'



CROSS SECTION A-A'
SCALE: 1"=5'

**ISSUED FOR REVIEW
NOT FOR CONSTRUCTION**

For Supporting Design Calculations see		<table border="1"> <tr> <td>R</td><td>0</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td> </tr> <tr> <td>G</td><td>K</td><td>A</td><td>D</td><td>M</td><td>G</td><td>K</td><td>A</td><td>H</td><td>R</td><td>A</td><td>H</td><td>R</td><td>A</td><td>T</td><td>J</td> </tr> </table>										R	0	-	-	-	-	-	-	-	-	-	-	G	K	A	D	M	G	K	A	H	R	A	H	R	A	T	J
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G	K	A	D	M	G	K	A	H	R	A	H	R	A	T	J																								
ISSUED FOR REVIEW - ISSUED FOR CONSTRUCTION - RECORD DRAWING		<table border="1"> <tr> <th>REV. NO.</th> <th>DATE</th> <th>DSN</th> <th>DRN</th> <th>CHKD</th> <th>SLPY</th> <th>RVND</th> <th>APPD</th> <th>STD</th> <th>PROJECT ID</th> <th>AS CONST</th> </tr> <tr> <td> </td> </tr> </table>										REV. NO.	DATE	DSN	DRN	CHKD	SLPY	RVND	APPD	STD	PROJECT ID	AS CONST																	
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SCALE: AS SHOWN		EXCEPT AS NOTED																																					
YARD																																							
WORK PLAN 7																																							
CHEMICAL POND SEEPAGE CONTROL																																							
CROSS SECTIONS																																							
DESIGNED BY:	K. ANDERSON	DRAWN BY:	D. GRAHAM	CHECKED BY:	K. ANDERSON	SUPERVISED BY:	H. APARICIO	REVIEWED BY:	H. APARICIO	APPROVED BY:	H. APARICIO	ISSUED BY:	T. JOHNSON																										
WIDOWS CREEK FOSSIL PLANT TENNESSEE VALLEY AUTHORITY FOSSIL AND HYDRO ENGINEERING																																							
AUTOCAD R 2000	DATE	34	C	XXWXXX-03				R 0																															



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40511-2050
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TASK COMPLETED BY: REV. NO.

PLOT FACTOR: XX
W_TVA C.A.D. DRAWING
DO NOT ALTER MANUALLY