

**TEMPORARY EROSION CONTROL DETAIL FOR SLOPE PROTECTION**

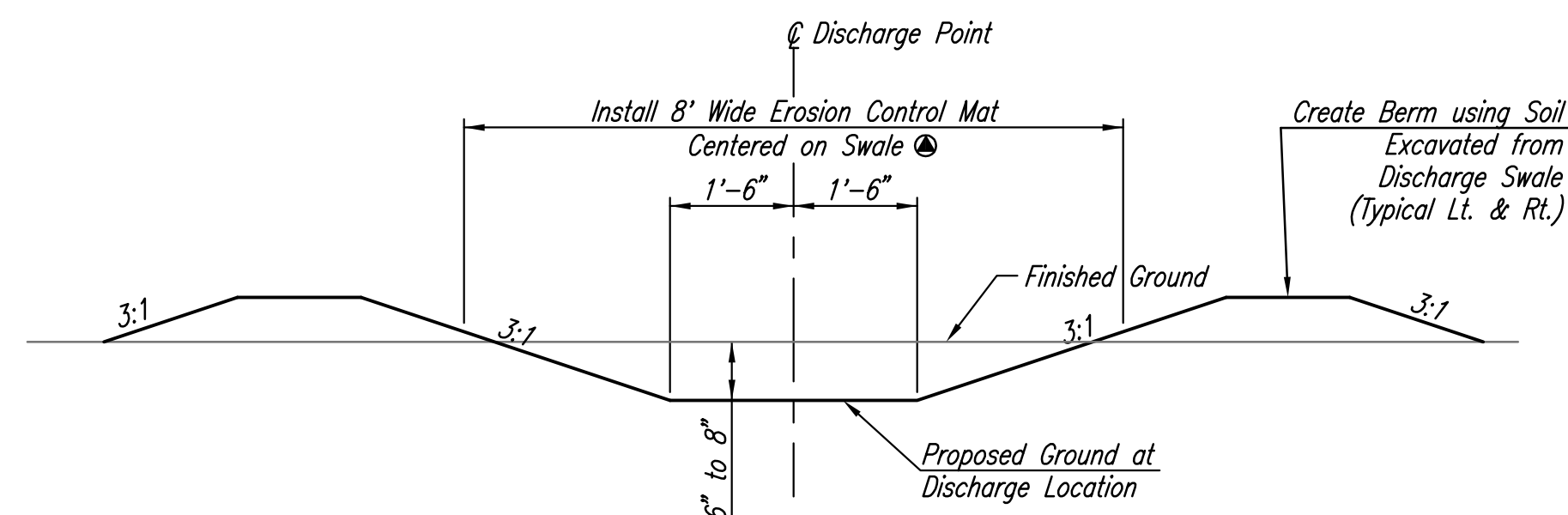
THE ENGINEER MAY DETERMINE THAT THE HEIGHT OF BERM SHOULD BE INCREASED OVER THAT SHOWN IF DRAINAGE CONDITIONS ARE PRODUCING SLOPE EROSION.

TEMPORARY EROSION CONTROL BERMS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

AT REGULAR INTERVALS OF NO GREATER THAN 250 FT, AND WHERE FLOW IS CONCENTRATED, SUCH AS THE CORNERS OF THE POND, OR AS DIRECTED BY THE ENGINEER, AND AS PER PLANS DEPICT PROVIDE BREAKS IN THE BERM TO ALLOW CONTROLLED DISCHARGE OF TRAPPED WATER. DISCHARGE LOCATIONS SHALL BE PROTECTED AS NECESSARY TO PREVENT SLOPE EROSION. SEE TYPICAL SECTION.

ALL AREAS WHERE FLOW IS CONCENTRATED SHALL BE PROTECTED BY SILTATION BARRIERS PRIOR TO DISCHARGING INTO ANY DITCH, STORM SEWER, OR WATERCOURSE, AS APPROVED BY THE ENGINEER.

MEASUREMENT AND PAYMENT: THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO "UNCLASSIFIED EXCAVATION".



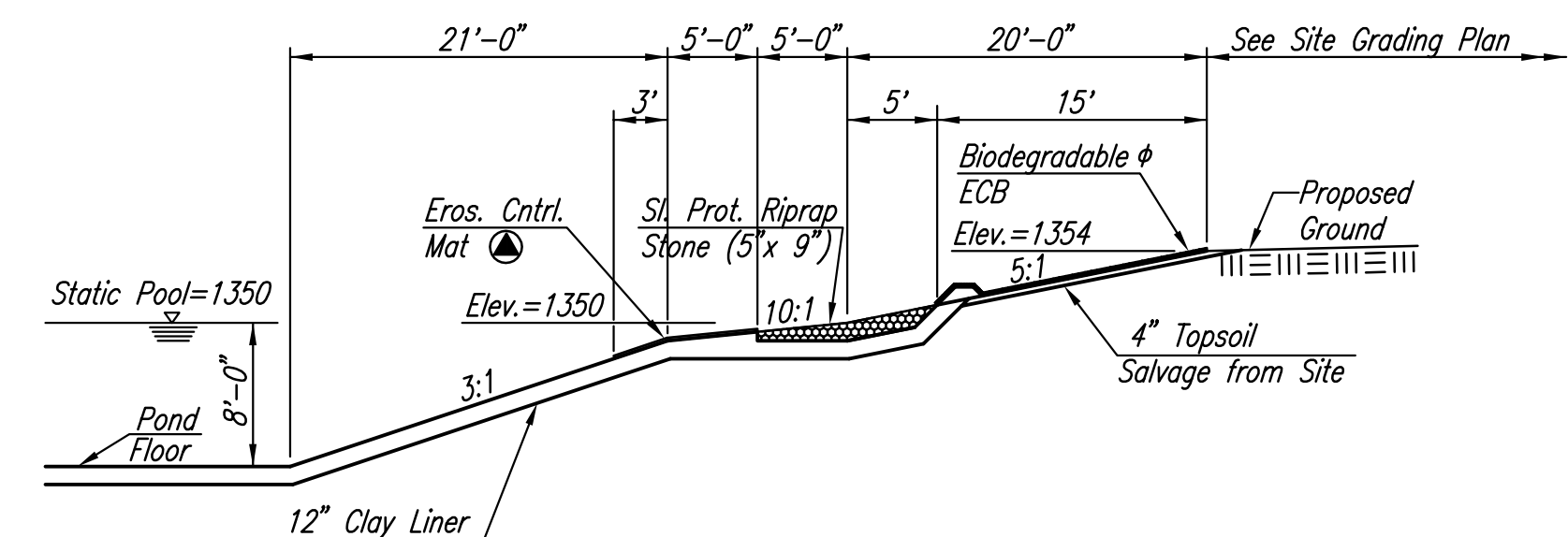
**TYPICAL SECTION**  
(Erosion Berm Discharge Point)

EROSION CONTROL MAT SHALL BE NORTH AMERICAN GREEN P300 OR APPROVED EQUIVALENT. EQUIVALENT MUST INCLUDE PRODUCT WARRANTY EQUAL TO THAT OF NORTH AMERICAN GREEN. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

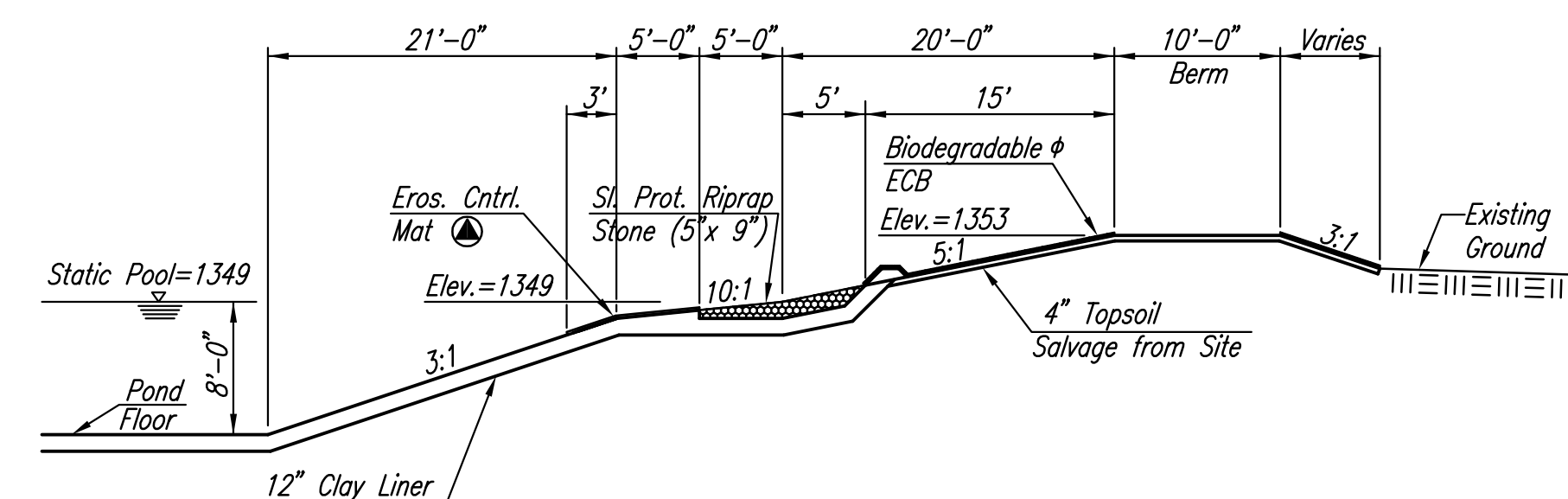
PAID FOR AS S.Y. "EROSION CONTROL MAT" AS INDICATED ON PLANS. THE BID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTS NECESSARY TO COMPLETE WORK.

SLOPE PROTECTION (BIODEGRADABLE EROSION CONTROL BLANKET) SHALL BE CURLEX I, CURLEX II OR APPROVED EQUIVALENT. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

PAID FOR AS S.Y. "SLOPE PROTECTION" AS INDICATED ON PLANS. THE BID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTS NECESSARY TO COMPLETE WORK.



**SECTION A-A**

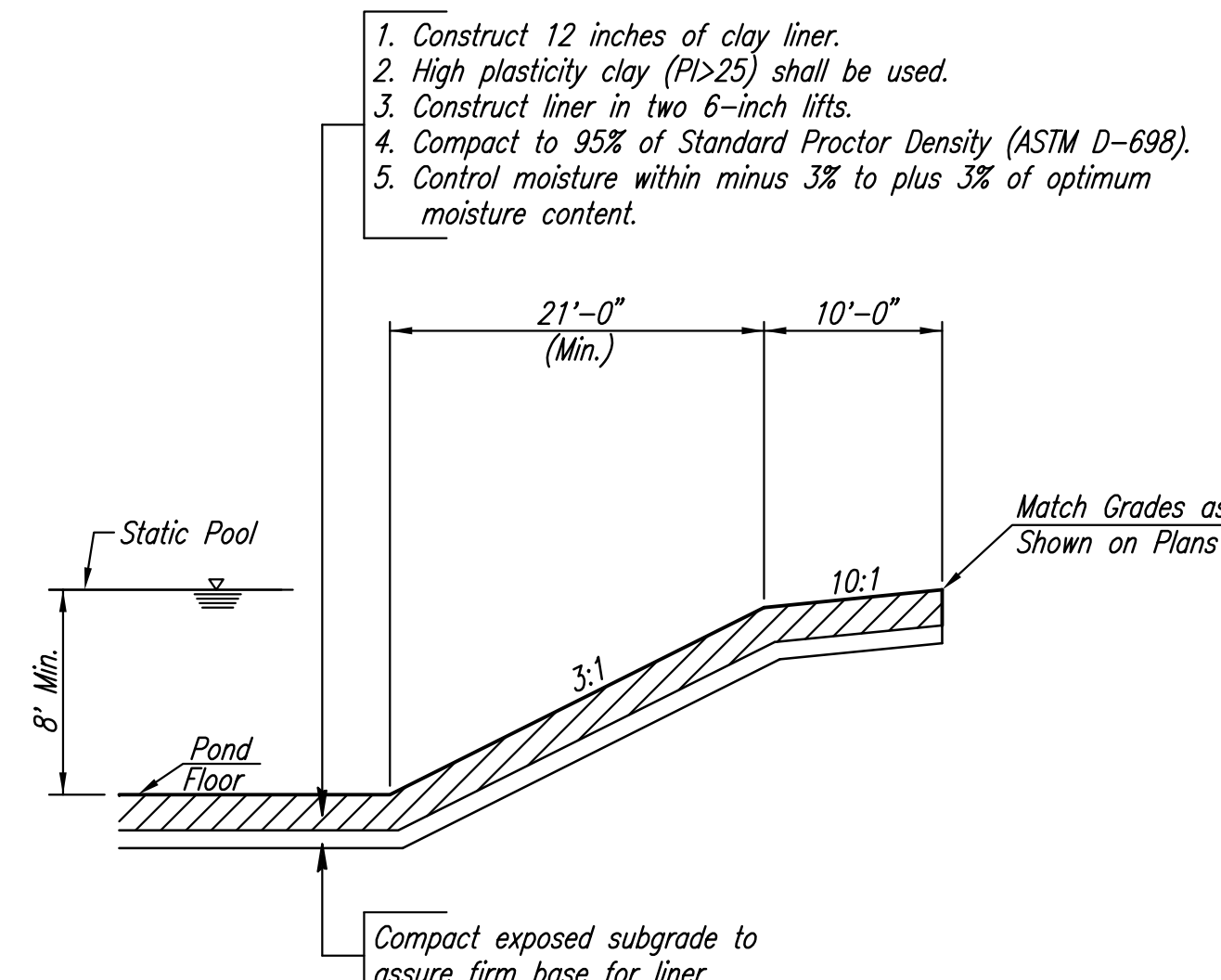


**SECTION B-B**

POINT	NORTH	EAST
7100	25,990.5944	18,019.8531
7101	25,986.1909	18,037.5652
7102	25,973.4694	18,050.6523
7103	25,939.3105	18,070.9327
7104	25,934.4711	18,074.2025
7105	25,930.0461	18,078.0143
7106	25,905.6536	18,101.6448
7107	25,884.7200	18,113.7746
7108	25,860.5420	18,114.6559
7109	25,852.2927	18,114.0803
7110	25,844.1996	18,115.7788
7111	25,811.4835	18,127.5407
7112	25,807.6105	18,130.0700
7113	25,805.2901	18,134.0717
7114	25,803.0767	18,156.4942
7115	25,803.9377	18,162.7927
7116	25,806.1065	18,168.7684
7117	25,816.2506	18,189.5396
7118	25,821.2540	18,214.0924
7119	25,813.7170	18,237.9895
7120	25,802.9823	18,255.1577
7121	25,788.1388	18,299.6154
7122	25,795.1828	18,345.9532
7123	25,802.1046	18,362.9171
7124	25,803.6369	18,367.2261
7125	25,804.7691	18,371.6572
7126	25,809.6729	18,395.3123
7127	25,810.5363	18,401.2515
7128	25,810.6818	18,407.2514
7129	25,809.4820	18,440.7494
7130	25,815.9931	18,467.2676
7131	25,835.4649	18,486.4106
7132	25,845.1982	18,491.7320
7133	25,849.7451	18,494.5436
7134	25,853.9659	18,497.8246
7135	25,880.3876	18,520.7311
7136	25,923.9270	18,542.7308
7137	25,972.6938	18,541.5150
7138	26,018.3617	18,528.8110
7139	26,029.2165	18,526.6394
7140	26,040.2727	18,526.0892
7141	26,087.8188	18,510.5524
7142	26,115.0216	18,468.5758
7143	26,119.5593	18,449.6250
7144	26,123.8905	18,438.0730
7145	26,130.9185	18,427.9331
7146	26,136.7258	18,420.5601
7147	26,141.5668	18,412.5195
7148	26,147.6147	18,400.8837
7149	26,175.1212	18,387.9868

POINT	NORTH	EAST
7150	26,194.7658	18,411.1607
7151	26,205.1517	18,445.6410
7152	26,230.4116	18,471.3061
7153	26,247.1756	18,481.6054
7154	26,259.7456	18,490.7453
7155	26,270.7475	18,501.7226
7156	26,277.4867	18,509.5832
7157	26,297.3149	18,527.2840
7158	26,325.4435	18,540.5070
7159	26,382.5051	18,540.1682
7160	26,405.9954	18,534.5478
7161	26,429.9920	18,531.8001
7162	26,461.6188	18,530.1036
7163	26,487.5617	18,539.6423
7164	26,498.4935	18,565.0296
7165	26,498.4960	18,568.7305
7166	26,487.8812	18,593.8613
7167	26,462.4517	18,603.7387
7168	26,412.4059	18,602.2448
7169	26,401.2678	18,602.2226
7170	26,390.1457	18,602.8204
7171	26,317.7436	18,608.7382
7172	26,294.3015	18,609.2751
7173	26,270.9578	18,607.0647
7174	26,217.5662	18,598.8279
7175	26,199.0709	18,597.7116
7176	26,180.6872	18,600.0267
7177	26,131.7999	18,610.8586
7178	26,110.1721	18,613.2265
7179	26,088.5440	18,610.8606
7180	26,025.1746	18,596.8258
7181	26,005.1034	18,594.4720
7182	25,984.9689	18,596.2016
7183	25,912.2130	18,609.9609
7184	25,892.4918	18,611.6960
7185	25,872.8153	18,609.5121
7186	25,814.1727	18,597.0321
7187	25,792.9256	18,594.8426
7188	25,771.6981	18,597.2154
7189	25,703.6883	18,612.3040
7190	25,670.2940	18,616.8051
7191	25,636.6180	18,615.6361
7192	25,588.8445	18,609.9221
7193	25,576.4258	18,609.2159
7194	25,564.0154	18,610.0569
7195	25,509.1304	18,617.2267
7196	25,501.3045	18,617.2196
7197	25,493.7467	18,615.1886
7198	25,481.3747	18,614.0350
7199	25,470.5165	18,620.0760

POINT	NORTH	EAST
7200	25,456.1727	18,631.1808
7201	25,439.1975	18,637.5766
7202	25,433.4335	18,617.3493
7203	25,447.9477	18,611.6909
7204	25,459.1996	18,600.9173
7205	25,480.6745	18,570.2655
7206	25,492.2380	18,560.4455
7207	25,507.1275	18,557.5386
7208	25,588.5931	18,562.6621
7209	25,616.6142	18,556.1294
7210	25,636.3955	18,535.2356
7211	25,641.2460	18,525.5963
7212	25,647.9708	18,514.1841
7213	25,656.1449	18,503.7608
7214	25,666.8167	18,491.8675
7215	25,687.7025	18,455.3321
7216	25,691.7074	18,413.4393
7217	25,686.6419	18,370.2274
7218	25,686.0418	18,354.5855
7219	25,687.8900	18,339.0417
7220	25,694.0424	18,308.1676
7221	25,695.9448	18,286.3539
7222	25,693.0539	18,264.6492
7223	25,688.2575	18,245.2274
7224	25,685.3598	18,219.3049
7225	25,689.2646	18,193.5148
7226	25,695.3902	18,172.2966
7227	25,697.8560	18,161.5730
7228	25,699.1287	18,150.6435
7229	25,700.3245	18,131.0232
7230	25,712.5255	18,101.2287
7231	25,740.3608	18,085.0492
7232	25,761.3479	18,085.2892
7233	25,771.7110	18,088.9137
7234	25,793.1485	18,099.1118
7235	25,796.9500	18,100.0693
7236	25,800.8274	18,099.4918
7237	25,835.2069	18,087.1319
7238	25,844.7247	18,081.5548
7239	25,851.5832	18,072.9146
7240	25,863.0065	18,051.2920
7241	25,869.5819	18,041.7291
7242	25,878.1847	18,033.9397
7243	25,891.0852	18,029.2009
7244	25,904.5992	18,031.7008
7245	25,913.5471	18,036.0274
7246	25,927.5203	18,039.4948
7247	25,941.7072	18,037.0440
7248	25,960.0459	18,029.7572
7249	25,966.6718	18,024.5932
7250	25,969.4823	18,016.6766



**CLAY LINER CONSTRUCTION PROCEDURE FOR POND SEALING**

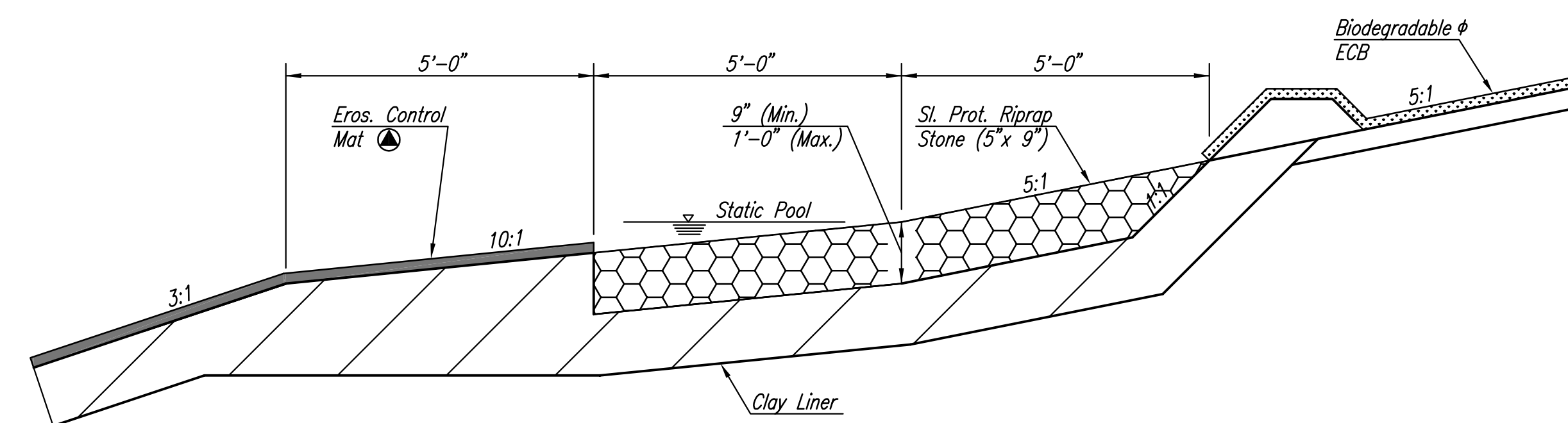
**POND SEALING NOTES:**

THE POND AREAS BELOW STATIC POOL ELEVATION SHALL BE OVER-EXCAVATED TO A DEPTH OF 12 INCHES BELOW THE FINAL POND SURFACE. THE OVEREXCAVATED MATERIAL SHALL BE STOCKPILED FOR RE-USE, UTILIZED IN PROJECT EMBANKMENTS, OR WASTED ON SITE. BACKFILL OVER-EXCAVATED AREA WITH HEAVY CLAY MATERIAL (PI>25) AND COMPACT TO 95% STD. DENSITY IN MAXIMUM 6-INCH LIFTS TO PROVIDE AN IMPERVIOUS SURFACE. NO SHALE PERMITTED IN THIS ZONE.

POND SEALING, AS DESCRIBED HEREIN, SHALL BE MEASURED AND PAID FOR BY THE LUMP SUM. THE LUMP SUM BID FOR "POND SEALING" SHALL BE CONSIDERED FULL COMPENSATION FOR ALL OVEREXCAVATION, STOCKPILING, DOUBLE HANDLING OF EARTHWORK (IF NECESSARY), COMPACTING, CORRECTION OF LEAKAGE AS DIRECTED BY THE ENGINEER, AND FOR ALL TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

**POND GRADING NOTES:**

CONTRACTOR SHALL PERFORM GRADING AS SHOWN BY CONTOURS AND COORDINATES ON THIS SHEET AND ON SHEET NOS. 7 THRU 10. EARTHWORK VOLUMES FOR THIS GRADING HAVE BEEN INCLUDED IN THE BID ITEM "UNCLASSIFIED EXCAVATION".



**RIPRAP (5" x 9")**

**NOTES**

RIPRAP MATERIALS SHALL MEET THE REQUIREMENTS FOR QUALITY AND DELETERIOUS SUBSTANCES AS SET FORTH IN SUBSECTION 1114 OF STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, KANSAS DEPARTMENT OF TRANSPORTATION, 2007 EDITION.

SHALL BE PAID FOR AS SQUARE YARD "SLOPE PROTECTION RIPRAP STONE (5" x 9")" AS INDICATED ON PLANS.

7100 = COORDINATE POINT NO.  
SEE SHEET NO. \_ FOR PLAT COORDINATES

7150 = COORDINATE POINT NO.  
SEE SHEET NO. \_ FOR PLAT COORDINATES

7200 = COORDINATE POINT NO.  
SEE SHEET NO. \_ FOR PLAT COORDINATES

No.	Revision	By	Date
NEWMARKET OFFICE 2ND STORM WATER DRAIN NO. 376 (PART B) <b>POND TYPICAL SECTIONS            AND COORDINATE LISTS</b> GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJ. NO. 468-84753			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	BMM, JAG	Job No.	35-11114-003
Drawn by	BJS	Date	January 2011
			Sht. 8 of 17