

SCALE:
1" = 50'

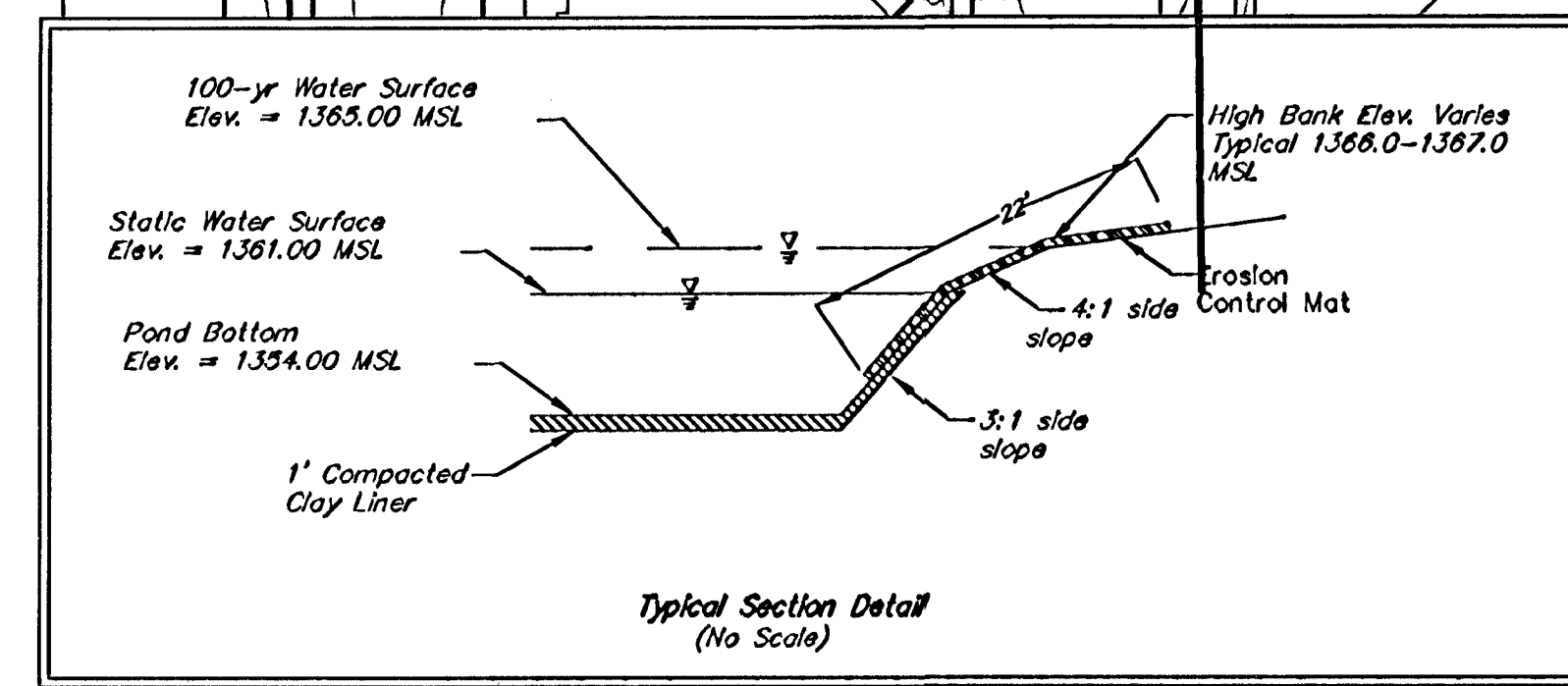
Bench Mark:
SITE BENCH MARK
"X" Chiseled on Top of Walk.
349.0' East of & of Greenwich.
60.0' North of & of 21st Street North.
Elevation = 1364.41 (NGVD29)

- POND NOTES:**
- Pond bottom and sideslopes below static pool elevation shall be over-excavated 1' and a 1' clay liner shall be compacted to 95% std. density. The plasticity index (P.I.) shall be at least 30. The compaction and P.I. shall be verified during construction, with testing results provided to Engineer. P.I. determination and compaction testing shall be arranged by the contractor at the request of the inspector. Cost shall be incidental to "Site Clearing & Restoration". Cost of over-excavation to install Clay Liner shall be incidental to bid item, "Excavation".

ALTERNATE: Bentonite applied to top 9" of soil at a rate of 6% by weight of soil per cubic foot.
 - Any excess excavation shall be stockpiled on-site at an area indicated by the Engineer out of easements and R/W. Area will be staked by Engineer. Additional area will be staked out if needed.
 - All of Lot 1 above the static water surface shall be seeded and mulched as follows: (Permanent Seeding)
SEED -- Kansas Premium Fescue Blend; 8#/1000 Sq. Ft.
FERTILIZER -- 12-24-12 Ratio at 350 Lbs./Ac.
MULCH -- 2 Tons Prairie Hay / Acre

All other disturbed areas not in street R/W are to be seeded as follows: (Temporary seeding)
SEED -- Rye grass (PLS)--5#/1000 Sq. Ft. and Kansas Premium Fescue Blend; 5#/1000 Sq. Ft.
 - Install Erosion Control Mat from 4' below the water surface to 22' up the bank.
 - Baughman Company will provide staking information at the time of construction.
 - Contractor to strip top 3" of soil within Lot 1 before mass grading and stockpile. Top soil stockpile to be redistributed over Lot 1 above water elevation prior to seeding.
 - Compaction of 95% shall be obtained in path of future access roadway, 90% in all other areas.

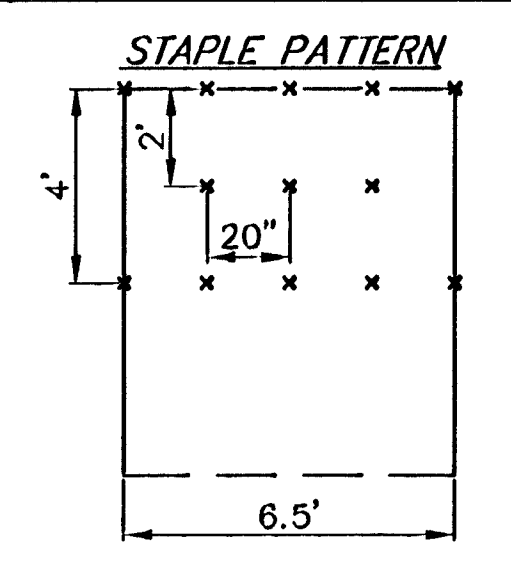
Conceptual Site Drainage Area = 18 acres	
Existing "C100" = 0.50 "Q100" = 68 cfs	Developed "C100" = 0.84 "Q100" = 111 cfs
Site to Detain Approximately 45 cfs	



Install 3174 S.Y. North American Green Erosion Control Mat S150BN Or Approved Equal. Erosion Control Mat Shall Be Installed & Anchored Per Details This Sheet.
Note: This Quantity Does Not Include Excess Material Necessary For Overlap & Anchoring.

PROPOSED POND (Static WS = 1361.0)			
STAGE	INFLOW	OUTFLOW	ELEVATION
2 yr	27 cfs	4 cfs	1362.2
5 yr	38 cfs	8 cfs	1362.7
100 yr	78 cfs	9 cfs	1364.8
Storage = 72,900 Cu Ft			

STAPLE PATTERN "D"
3-1/2 staples per sq. yd. using 6-inch, 11 ga. wire "U" staples. 8-inch staples and longer may be used for loose soils. 9 ga. staples or heavier may be necessary in hard or rocky soils.



Contractor shall follow manufacturer's installation instructions regarding overlap dimensions. The overlap shall have a minimum dimension of three inches (3").



SLOPE INSTALLATION

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 8" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-3" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE