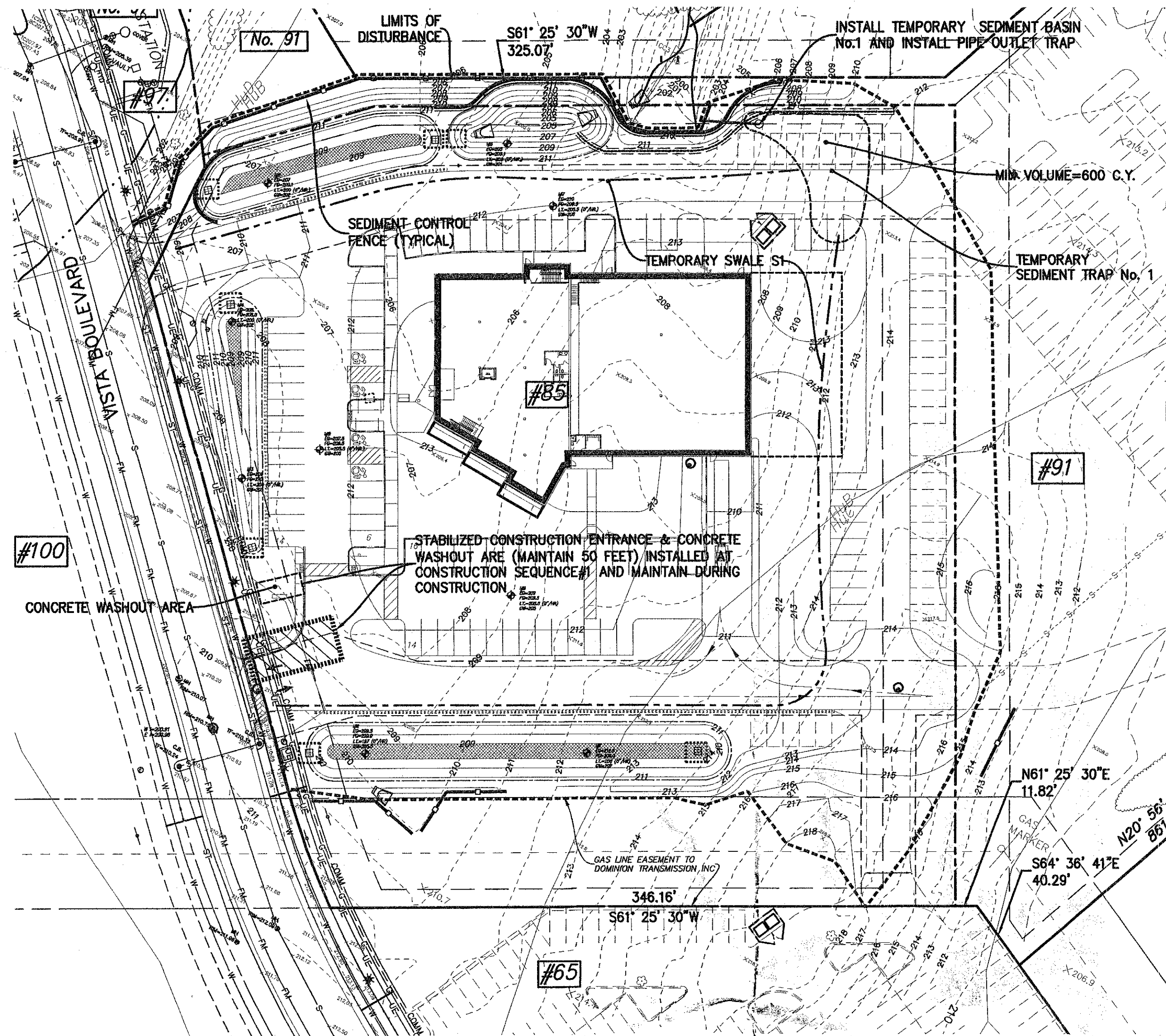




EROSION & SEDIMENT CONTROL PLAN
SCALE: 1"=50'

EROSION AND SEDIMENT CONTROL LEGEND

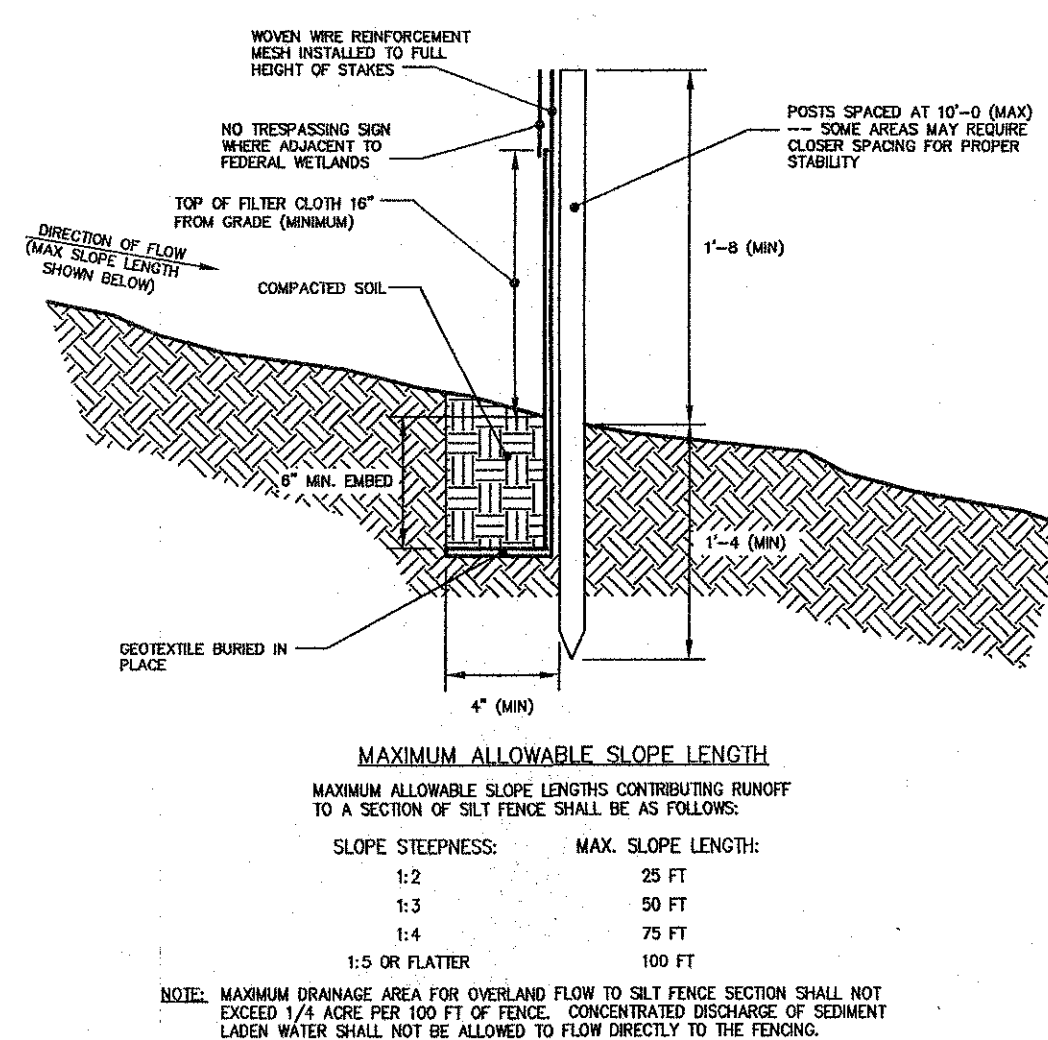
- PROPOSED SEDIMENT CONTROL FENCE
- PROPOSED CHECK DAM
- PROPOSED PIPE OUTLET SEDIMENT TRAP
- PROPOSED TEMPORARY SWALE
- PROPOSED DROP INLET PROTECTION
- PROPOSED CONSTRUCTION SEQUENCE (CS) LINE (NOT TO EXCEED 5 ACRES)

TEMPORARY SWALE SUMMARY TABLE				
SWALE	LENGTH	GRADE	TYPE*	DRAINAGE AREA
S1	500'	0.5%	A, 1	3.2 ACRES

* ALL TEMPORARY SWALES SHALL RECEIVE RECP

CONSTRUCTION SEQUENCE SUMMARY TABLE	
CS#	DISTURBED AREA
CS1	3.93 ACRES

TEMPORARY SEDIMENT TRAP SUMMARY TABLE	
DESCRIPTION	TRAP No.
TYPE	
DRAINAGE AREA	3.93 ACRES
STORAGE REQ'D	523 C.Y.
STORAGE PROVIDED*	600 C.Y.
PIPE OUTLET	12"
DEPTH BELOW OUTLET	12"
ENHANCEMENT HT.	6"
50% CLEANOUT ELEVATION	208
INVERT OUT ELEVATION	205
LENGTH x WIDTH x HT*	55'x60'x5'
*STORAGE CAPACITY FROM THE TOP ELEVATION OF THE RISER PIPE OUTLET TO THE TRAP BOTTOM	

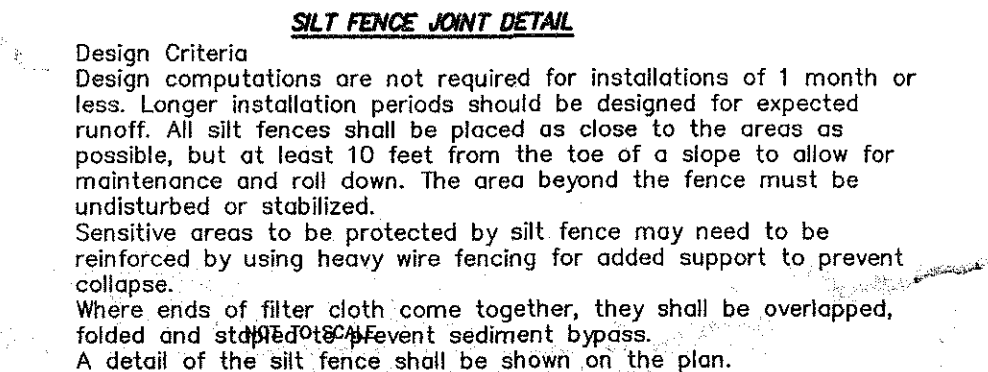


NOTE: MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO SILT FENCE SECTION SHALL NOT EXCEED 1/4 ACRE PER 100 FT OF FENCE. CONCENTRATED DISCHARGE OF SEDIMENT LADEN WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY TO THE FENCING.

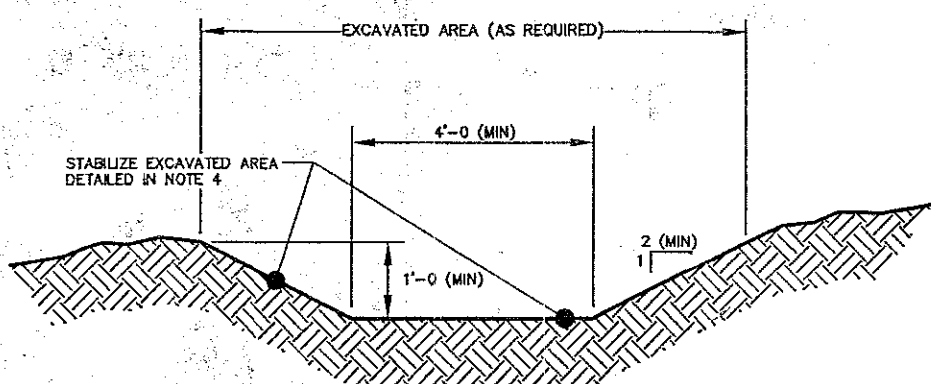
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- INSTALL SILT FENCE IN ACCORDANCE WITH THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 7A.
- WOVEN WIRE FENCE SHALL BE 12 1/2 GA., 6" MAXIMUM MESH OPENING, FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR SWIVELS.
- FILTER CLOTH TO BE TENSIONED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE WRAPPED TOGETHER PER DETAIL 4 ON THIS PAGE.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN ACCUMULATION REACHES 1/2 OF DESIGN CAPACITY OF FENCE (1/2 HEIGHT OF FILTER FABRIC) OR WHEN "BULGES" DEVELOP IN FENCING.

- POSTS: STEEL EITHER "1" OR "2" TYPE OR 2" HARDWOOD
- FENCE: WOVEN WIRE, 12 1/2 GA., 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X, MARIAT 1000, STABILINKA T1000 OR APPROVED EQUAL
- PREFABRICATED UNIT: RECP-40, CHAINFENCE, OR APPROVED EQUAL



SEDIMENT CONTROL FENCE INSTALLATION DETAIL
NOT TO SCALE



- INSTALL TEMPORARY SWALES IN ACCORDANCE WITH THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 7A AS SHOWN ON THE EROSION CONTROL PLAN OR WHEREAS NEEDED TO CONTROL THE FLOW OF RUNOFF.
- TEMPORARY SWALES OVERLAPPING RUNOFF FROM A DISTURBED AREA SHALL OUTLET INTO A SEDIMENT TRAPPING DEVICE.
- TEMPORARY SWALES OVERLAPPING RUNOFF FROM AN UNDISTURBED OR STABILIZED AREA SHALL OUTLET DIRECTLY TO AN UNDISTURBED, STABILIZED AREA AT A NON-EROSIVE VELOCITY.
- THE MAXIMUM SURFACE TREATMENT OF THE TEMPORARY SWALE SHALL BE RECP AND AS DETERMINED AS FOLLOWS:

DRAINAGE AREA	SWALE A < 5 ACRES	SWALE B 5-10 ACRES	REQUIRED SURFACE TREATMENT: < 5 ACRES	5-10 ACRES
BOTTOM WIDTH OF FLOW CHANNEL	4'	6'	RECP (SEE DESIGN CRITERIA)	RECP (SEE DESIGN CRITERIA)
DEPTH OF FLOW CHANNEL	1'	1'	SEED AND COVER WITH RECP, SOD OR LINED WITH PLASTIC OR 2" STONE	SEED AND COVER WITH RECP, SOD OR LINED WITH PLASTIC OR 2" STONE
SIDE SLOPES	2:1	2:1	0.5% MIN. 20% MAX	0.5% MIN. 20% MAX
CONDITION:	CHANNEL GRADE:			
1	0.5 - 3.0%			
2	3.1 - 5.0%			
3	5.1 - 8.0%			
4	8.1 - 20%			

- IN HIGHLY ERODIBLE SOILS, THE ENGINEER OR INSPECTING PROFESSIONAL MAY REQUIRE STABILIZATION OF THE NEXT HIGHER SLOPE GRADE.
- ALL TREES, BRUSH, STUMPS AND OTHER OBSTRUCTIONS SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTION OF THE SWALE.
- THE SWALE SHALL BE EXCAVATED OR SHAPED TO MEET THE CROSS SECTION SHOWN ABOVE AND SHALL BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES THAT MAY IMPIDE FLOW.
- AS AN ALTERNATE PRACTICE TO TEMPORARY SWALES, EARTH DIKES MAY BE USED. SEE DETAIL THIS SHEET.

TEMPORARY SWALE DETAIL
NOT TO SCALE

TEMPORARY SEDIMENT TRAP DETAIL
NOT TO SCALE

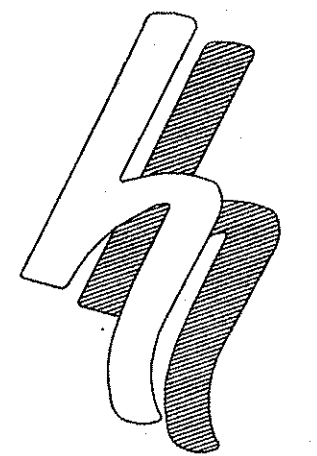
EARTH DIKE
NOT TO SCALE

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NECESSARY TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF BROODEN. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT PERMANENTLY STABILIZED.
- STABILIZATION SHALL BE, (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART ON THE PREVIOUS PAGE.
- AS AN ALTERNATE PRACTICE TO EARTH DIKES, TEMPORARY SWALES MAY BE USED. SEE DETAIL THIS SHEET.

CONCRETE TRUCK WASHOUT SECTION
NOT TO SCALE

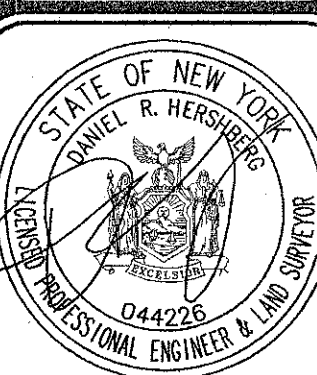
TEMPORARY EROSION AND SEDIMENT CONTROL NOTES

- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE LATEST EDITION OF "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" (aka: the BLUE BOOK). EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- IT IS THE INTENT OF THESE PLANS AND NOTES TO BE USED AS A GUIDE BY THE CONTRACTOR TO ENSURE THAT NO ERODED MATERIAL MIGRATES FROM THE SITE OR ENTERS ANY WATER COURSE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THIS GOAL IS MET, BY IMPLEMENTING THESE PLANS AND ANY ADDITIONAL MEASURES THAT MAY BE NECESSARY. FURTHER MEASURES MAY BE REQUIRED BY THE CITY, VILLAGE, OR TOWN ENGINEER, WHILE MANY OF THE EROSION CONTROL DETAILS CONTAINED WITHIN THESE PLANS ARE TAKEN DIRECTLY FROM THE BLUE BOOK, THE CONTRACTOR SHOULD CONSIDER ANY OF THE DETAILS CONTAINED IN SECTION 7A OF THE BLUE BOOK AS ACCEPTABLE PRACTICE IN THE APPROPRIATE APPLICATION.
- THE DEVELOPER/CONTRACTOR OR HIS BUILDER SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL EVENT THROUGHOUT THE ENTIRE DEVELOPMENT PROCESS. TO ASSURE PROPER FUNCTION, SILTATION BARRIERS SHALL BE MAINTAINED IN GOOD CONDITION AND REINFORCED, EXTENDED, REPAIRED, RE-SEEDED AND PROTECTED FROM FURTHER EROSION. ALL SEDIMENT ACCUMULATED SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPOIL AREAS. WATER SHALL BE APPLIED TO NEWLY SEEDED AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED. DURING THESE PERIODIC INSPECTIONS, THE FOLLOWING ITEMS SHOULD BE PAID PARTICULAR ATTENTION:
 - THE BASIN INLET LOCATIONS SHALL BE INSPECTED FOR SILT ACCUMULATION CAUSED BY THE LACK OF ESTABLISHED SURROUNDING VEGETATION.
 - CATCH BASINS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION.
 - RIP-RAP OUTLET PROTECTION SHALL ALSO BE CHECKED FOR SEDIMENT ACCUMULATION. IF SIGNIFICANT AMOUNTS OF SEDIMENT ACCUMULATE, RIP-RAP SHALL BE REMOVED AND REPLACED.
 - HAY/STRAW BALES AND SILT FENCING SHALL BE INSPECTED REGULARLY FOR UNDERMINING AND DETERIORATION.
 - SEEDING/MULCHED AREAS SHALL BE INSPECTED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED.
- EROSION CONTROL DEVICES SHALL NOT BE REMOVED UNTIL THE CITY, VILLAGE OR TOWN ENGINEER HAS APPROVED FINAL STABILIZATION.
- CHECK DAMS AND SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH PLAN AND DETAIL LOCATIONS AND AS DESCRIBED IN GP-0-10-001.
- PRIOR TO CONSTRUCTION OF ANY PHASE, THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED.
- CONSTRUCTION TRAFFIC SHALL NOT CROSS STREAMS OR DITCHES EXCEPT AT SUITABLE CROSSING FACILITIES. EQUIPMENT SHALL NOT OPERATE, UNNECESSARILY.
- EXISTING PAVEMENT AREAS SHALL BE CLEANED AT THE DIRECTION OF THE CITY, VILLAGE, OR TOWN ENGINEER.
- WATER TRUCKS SHALL BE USED TO MINIMIZE DUST POLLUTION ON SITE, AND ON ADJACENT ROADWAYS ROADWAY AREAS AS DIRECTED BY THE CITY, VILLAGE, OR TOWN ENGINEER.
- ANY WATER PUMPED AS A RESULT OF DEWATERING ACTIVITIES SHALL BE PUMPED INTO A DEWATERING PIT.
- CONCRETE WASHOUT AREAS SHALL BE DESIGNATED BY THE DEVELOPER OR CONTRACTOR AND PROTECTED IN ACCORDANCE WITH GP-0-10-001.
- ALL AREAS DISTURBED IN THE CONSTRUCTION PROCESS SHALL BE RE-SEEDED AS SOON AS PRACTICABLE. PARTICULAR CARE SHALL BE TAKEN TO RE-SEED DISTURBED SLOPES IN A TIMELY MANNER.
- IT IS RECOMMENDED THAT ALL EROSION CONTROL DEVICES BE PLACED FOR THE ENTIRE PHASE AS SHOWN ON THE EROSION CONTROL PLAN. PLACEMENT MAY BE DONE, HOWEVER, TO SUIT CONSTRUCTION SEQUENCING AS APPROVED BY THE CITY, VILLAGE, OR TOWN ENGINEER.
- STOCK PILES SHALL BE PROTECTED BY HAY BALE BERMS PER GP-0-10-001. THESE BERMS SHALL BE MAINTAINED IN GOOD CONDITION UNTIL SAID STOCK PILES ARE REMOVED AND STOCK PILING AREAS ARE PERMANENTLY STABILIZED.



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ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, IS ILLEGAL



REMARKS	DATE
SWPPP AND DETAILED SITE PLAN	1/28/15
COMMENT LETTER 1-9-15	1/28/15
PLANNING BOARD COMMENTS	2/9/15
RESPONSE TO COMMENTS	2/23/15
REVISIONS	3/2/15

PROPOSED EROSION AND SEDIMENT CONTROL PLAN FOR No. 85 VISTA BOULEVARD
VISTA TECHNOLOGY CAMPUS
TOWN OF BETHLEHEM
ALBANY COUNTY, STATE OF NEW YORK