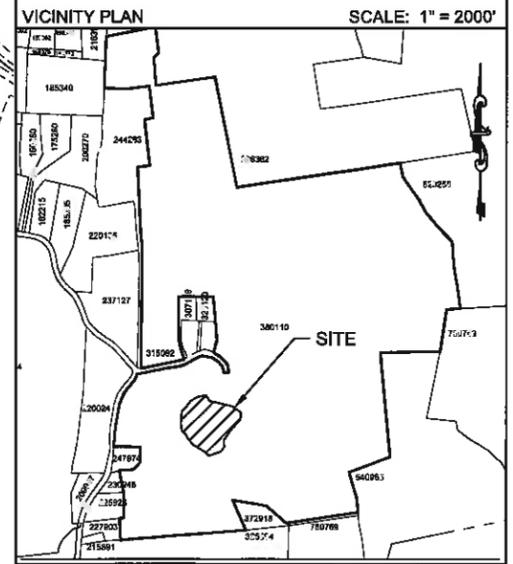
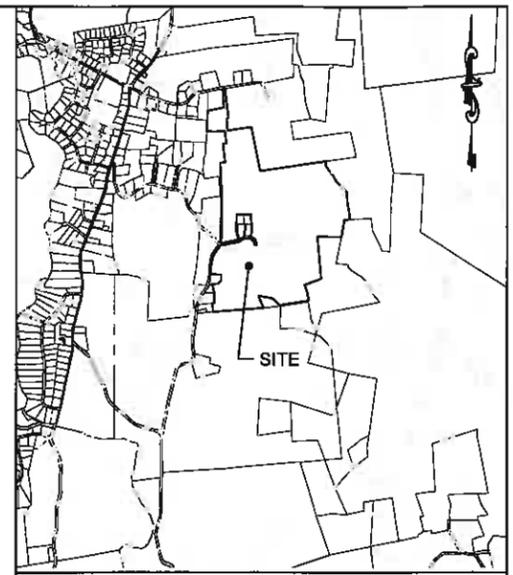


LEGEND

EXISTING CONTOUR-10 FT	---
EXISTING CONTOUR-2 FT	---
PROPOSED CONTOUR-10 FT	---
EXISTING CONTOUR-2 FT	---
DRAINAGE LINE	---
OUTLET STRUCTURE	□
SPOT ELEVATION	502.3 +



EXISTING CONDITIONS NOTES:

- THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATION OF WORK MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATIONS OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN AND IT SHALL BE HIS (THE CONTRACTOR'S) RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK.
- PRIOR TO THE INSTALLATION OF ANY NEW STRUCTURE, PIPELINE OR EQUIPMENT WHICH REQUIRES CONNECTION TO OR CROSSING OF ANY EXISTING STRUCTURE, PIPELINE OR EQUIPMENT, THE CONTRACTOR IS DIRECTED TO LOCATE SUCH EXISTING STRUCTURE, PIPELINE OR EQUIPMENT TO ASCERTAIN IF SAID ITEM IS IN CONFLICT OR CONTRADICTION TO THE INTENT OF THE CONTRACT PLANS OR SPECIFICATIONS.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- THE CONTRACTOR SHALL REQUEST AN EXISTING UTILITY MARK OUT PRIOR TO START OF CONSTRUCTION.

SITE DATA

ZONING DISTRICT: "RU" RURAL DISTRICT
 EXISTING LOT SIZE: ±241.23 ACRES
 TAX GRID No.: 132600-7163-00-380110
 PROPERTY ADDRESS: 39 NE MOUNTAIN ROAD
 TOWN OF DOVER, NY
 PROPERTY OWNER: DOUBLE JK RANCH LLC,
 83 SALE HARBOUR DR
 NEW FAIRFIELD, CT 06812

**REDUCED SIZE PLAN
 NOT TO SCALE**

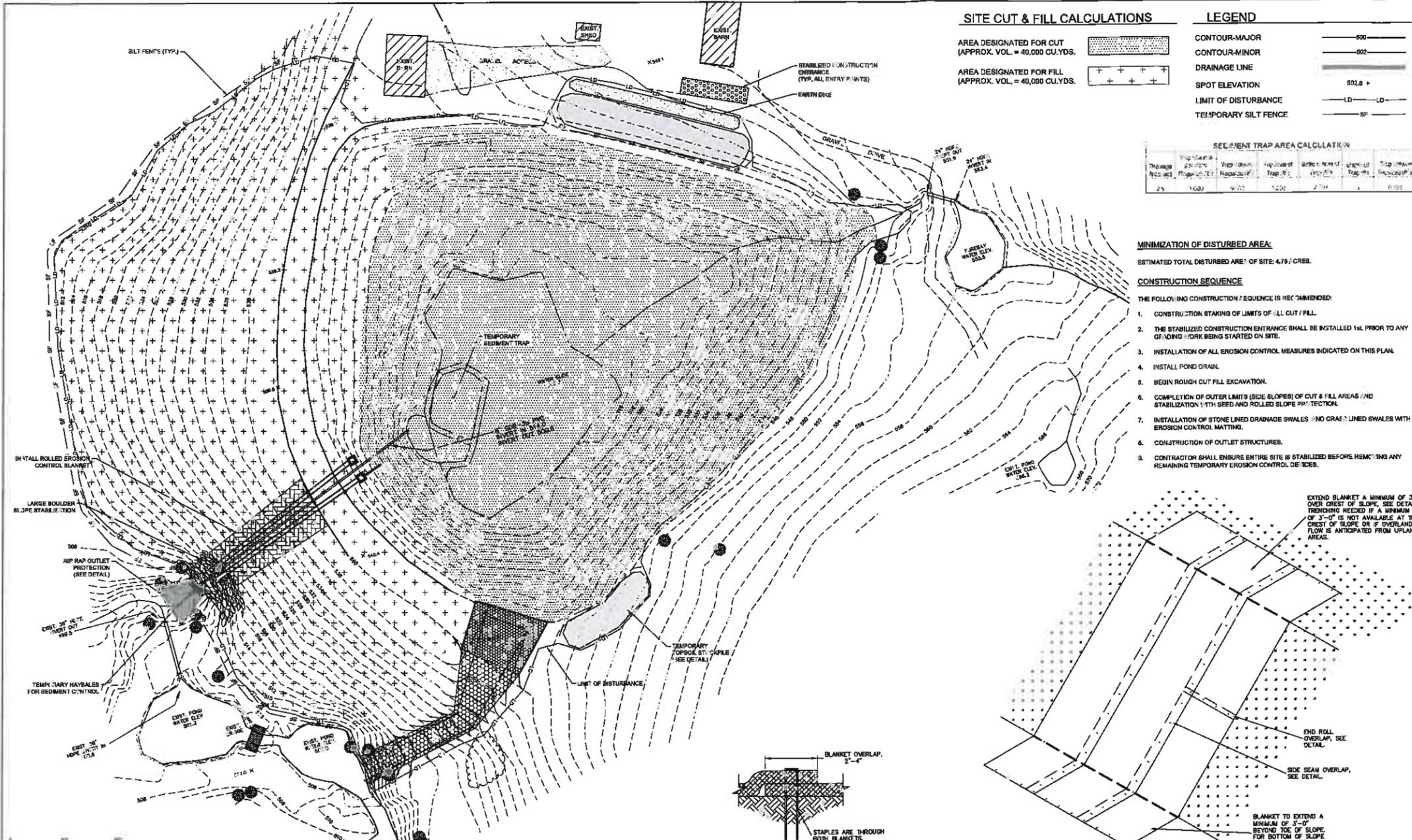
DEC 21 2012



DATE	REVISION

ENGINEERING, DESIGN, & PLANS PREPARED BY:
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DOUBLE JK RANCH						
TOWN OF DOVER			DUTCHESS COUNTY, NY			
POND CONSTRUCTION & GRADING PLAN						
DATE	SCALE	DESIGNED BY	PLANNED BY	CHECKED BY	JOB NO.	SHEET NO.
12/12/12	1" = 30'	RAR	RED	RAR	12-008	1 of 3



SITE CUT & FILL CALCULATIONS

AREA DESIGNATED FOR CUT (APPROX. VOL. = 40,000 CU.YDS.)
 AREA DESIGNATED FOR FILL (APPROX. VOL. = 40,000 CU.YDS.)

LEGEND

- CONTOUR-MAJOR
- CONTOUR-MINOR
- DRAINAGE LINE
- SPOT ELEVATION
- LIMIT OF DISTURBANCE
- TEMPORARY SILT FENCE

SEDIMENT TRAP AREA CALCULATION

Trap No.	Trap Area (sq. ft.)	Trap Volume (cu. yd.)	Trap Capacity (cu. yd.)	Trap Efficiency (%)	Trap Status
1	25	1000	1200	2500	100%

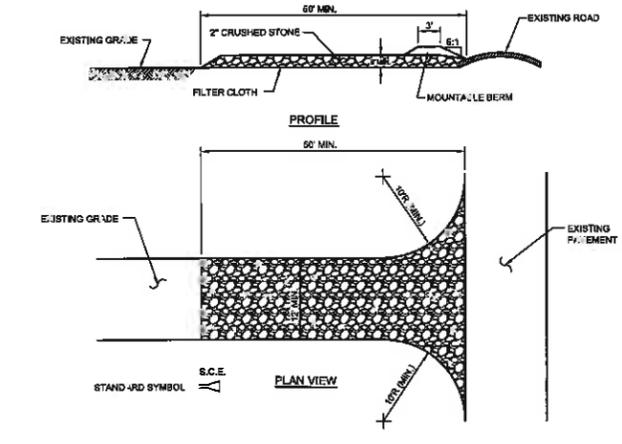
MINIMIZATION OF DISTURBED AREA

ESTIMATED TOTAL DISTURBED AREA OF SITE: 4.78 ACRES.

CONSTRUCTION SEQUENCE

1. CONSTRUCTION STAKING OF LIMITS OF ALL CUT & FILL.
2. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED 14 DAYS PRIOR TO ANY GRADING WORK BEING STARTED ON SITE.
3. INSTALLATION OF ALL EROSION CONTROL MEASURES INDICATED ON THIS PLAN.
4. INSTALL POND DRAIN.
5. BEGIN ROUGH CUT & FILL EXCAVATION.
6. COMPLETION OF OUTER LIMITS (SIDE SLOPES) OF CUT & FILL AREAS AND STABILIZATION WITH SEED AND ROLLED SLOPE PROTECTION.
7. INSTALLATION OF STONE LINED DRAINAGE SWALES AND GRAVEL LINED SWALES WITH EROSION CONTROL MATTING.
8. CONSTRUCTION OF OUTLET STRUCTURES.
9. CONTRACTOR SHALL ENSURE ENTIRE SITE IS STABILIZED BEFORE REMOVING ANY REMAINING TEMPORARY EROSION CONTROL DEVICES.

- SOIL EROSION AND SEDIMENT CONTROL NOTES:**
1. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (REFERRED TO IN REMAINING TEXT AS "NEW YORK STANDARDS AND SPECIFICATIONS").
 2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 14 DAYS AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PERMITS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL. THE SEEDING SHALL BE DONE IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS, 2.3 FOLLOWS.
 3. FERTILIZER: THE FERTILIZER SHALL BE APPLIED AT A RATE OF FOURTEEN (14) POUNDS PER ONE THOUSAND SQUARE FEET, USING 5-10-10 OR EQUAL.
 4. SEED: A MIXTURE OF RYE GRASS APPLIED AT A RATE OF 10 LBS/ACRE OR OTHER SELECT MIXTURE AS DESCRIBED IN THE NEW YORK GUIDELINES.
 5. MULCH: SALT-HAY OR SMALL GRAIN STRAW APPLIED AT A RATE OF NINETY (90) POUNDS PER ONE THOUSAND SQUARE FEET OR TWO (2) TONS PER ACRE TO BE APPLIED AND ANCHORED ACCORDING TO THE NEW YORK STANDARDS AND SPECIFICATIONS.
 6. IN AREAS OF SLOPES STEEPER THAN ONE ON THREE AND IN DRAINAGE CHANNELS WHERE RUNOFF VELOCITIES EXCEED 2.5 FEET PER SECOND, JUTE MATTING SHALL BE USED TO STABILIZE SEEDING AND/OR PLANTED AREAS. JUTE MATTING SHALL BE INSTALLED AND ANCHORED IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS.
 7. ANY GRADED AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL, WITHIN TEN (10) DAYS AFTER FINAL GRADING, RECEIVE PERMANENT SEEDING IN COMBINATION WITH A SUITABLE MULCH AS FOLLOWS:
 - A) FERTILIZER: FERTILIZER APPLIED AT A RATE OF TWENTY (20) POUNDS PER ONE THOUSAND SQUARE FEET USING 14-28-14 OR EQUAL.
 - B) SEED MIXTURE: TO BE PLANTED BETWEEN APRIL 1ST AND MAY 15TH OR BETWEEN AUGUST 15TH AND OCTOBER 15TH. MIXTURE SHALL BE 30% PERENNIAL BLUEGRASS BLEND, 10% PERENNIAL RYE GRASS AND 60% FINE FESCUE. SEED AT RATE OF 4 LBS/1000 SQUARE FEET.
 - C) MULCH: SALT-HAY OR SMALL GRAIN STRAW APPLIED AT A RATE OF NINETY (90) POUNDS PER ONE THOUSAND SQUARE FEET OR TWO (2) TONS PER ACRE TO BE APPLIED AND ANCHORED ACCORDING TO THE NEW YORK STANDARDS AND SPECIFICATIONS.
 - D) IN AREAS OF SLOPES STEEPER THAN ONE ON THREE AND IN DRAINAGE CHANNELS WHERE RUNOFF VELOCITIES EXCEED 2.5 FEET PER SECOND, "BANK STABILIZATION" SHALL BE INSTALLED AND ANCHORED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AS WELL AS THE NEW YORK STANDARDS AND SPECIFICATIONS.
 8. SLOPES STEEPER THAN ONE ON THREE SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
 9. PAVED ROADWAYS SHALL BE KEPT CLEAN AT ALL TIMES.
 10. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES. EXCEPT FOR MINOR PERIMETER EMBANKMENT AREAS, ALL GRADED AREAS SHALL BE DIRECTED THROUGH ONE OF THE SEDIMENT BARRIERS. DIVERSION SWALES MAY BE USED TO DIRECT DRAINAGE RUNOFF UNTIL THE PERMANENT STORM DRAINAGE SYSTEM IS IN PLACE.
 11. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS.
 12. STOCKPILES SHALL NOT BE LOCATED WITHIN FIFTY FEET (50') OF ROADWAYS OR DRAINAGE FACILITIES. THE BACK OF ALL STOCKPILES SHALL BE PROTECTED BY SILT FENCE.
 13. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR ON A DAILY BASIS TO ENSURE THAT TEMPORARY AND PERMANENT DITCHES, PIPES, AND STRUCTURES ARE CLEAR OF DEBRIS, THAT EMBANKMENTS AND BERM ARE NOT BREACHED, AND THAT ALL BARRIERS ARE INTACT.
 14. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE SITE WORK BY THE OWNER. UPON CERTIFICATION OF FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUED MAINTENANCE OF PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
 15. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK BEING DONE ON SITE.



STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50' (EXCEPT FOR A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN 6".
4. WIDTH - 10' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES SHALL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - TIRES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

GRAPHIC SCALE
1" = 40'

PLAN VIEW
SCALE: 1" = 40'

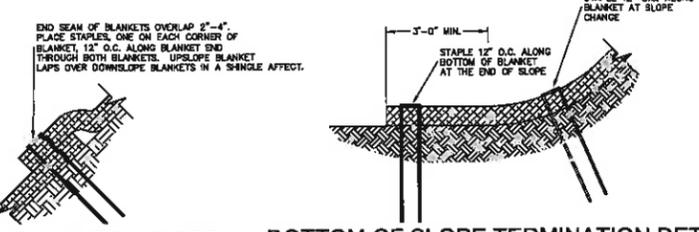
SIDE SEAM OVERLAP STAPLE DETAIL
N.T.S.



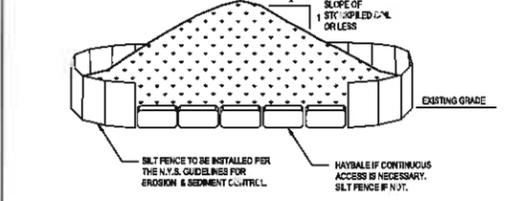
SLOPE CREST ANCHOR DETAIL
N.T.S.



CURLEX 1 ROLLED EROSION CONTROL BLANKET SLOPE INSTALLATION DETAIL
N.T.S.

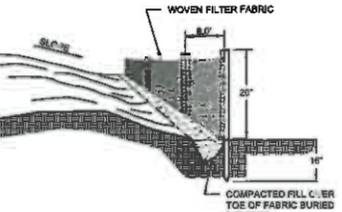


END ROLL OVERLAP DETAIL **BOTTOM OF SLOPE TERMINATION DETAIL**
N.T.S.



TEMPORARY SOIL STOCKPILE STABILIZATION DETAIL

- NOTES:**
1. AREA CHOSEN FOR STOCKPILING SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES AND STABILIZED SEED AND MULCH OR JUTE MESH.
 4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.
 5. SIZE OF STOCKPILE SHALL NOT EXCEED THE LIMITATIONS OF DRAINAGE AREA PER SILT FENCE SPECIFICATIONS.
 6. INSTALL SILT FENCE A MINIMUM OF 10' FROM THE TOE OF THE STOCKPILE.



TYPICAL SILT FENCE DETAIL
N.T.S.

- NOTES:**
1. LOCATE POSTS DOWN INSIDE OF FABRIC TO HELP SUPPORT FENCING.
 2. BURY TOE OF FENCE APPROXIMATELY 6" DEEP TO PREVENT UNDERCUTTING.
 3. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FABRIC AT A SUPPORT POST WITH OVERLAP TO THE NEXT POST.

REDUCED SIZE PLAN
NOT TO SCALE

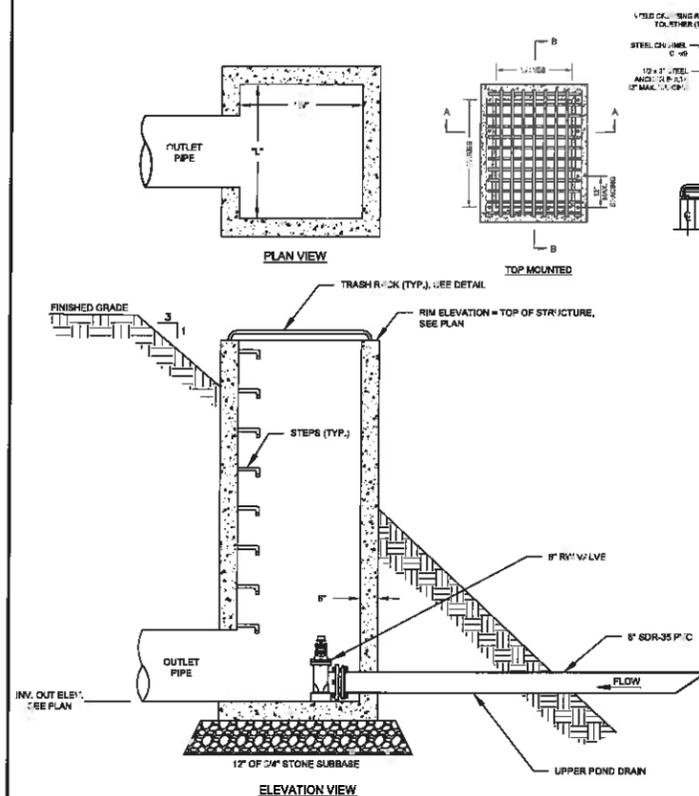
DATE	REVISION

ENGINEERING, DESIGN, & PLANS PREPARED BY:
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DATE		SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	JOB NO.	SHEET NO.
12/18/12		AS NOTED	RAI	RED	R.R.	12-009	2 of 3

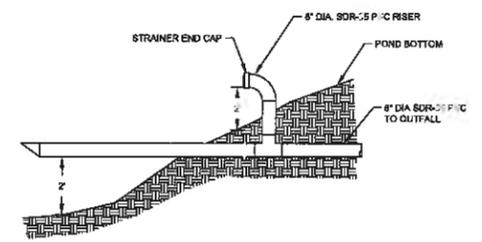
DOUBLE JK RANCH
 TOWN OF DOVER DUTCHESS COUNTY, NY

EROSION & SEDIMENT CONTROL PLAN

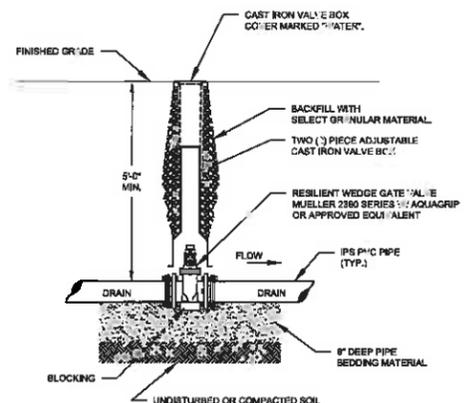


POND OUTLET DETAIL
N.T.S.

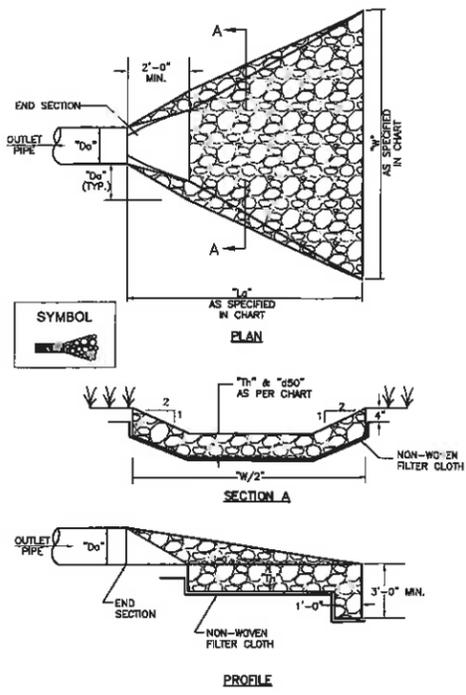
- NOTES**
1. PRECAST CATCH BASIN, FRAME, AND GRATE SHALL BE DESIGNED FOR H-20 LOADING AND MEET NYSDOT SPECIFICATIONS.
 2. PRECAST CONCRETE TOP WITH FRAME AND GRATE MAY NOT BE USED.
 3. ALL PIPES SHALL BE LAID OR CUT FLUSH WITH THE INSIDE OF THE CATCH BASIN WALL AND SHALL BE FIRMLY MORTARED IN PLACE.
 4. 8" DIA. FILL SHALL BE SELECT FILL OR R.O.B. GRAVEL COMPACTED IN 8" LIFTS.



POND DRAIN INLET DETAIL
N.T.S.



POND DRAIN VALVE & BOX DETAIL
N.T.S.

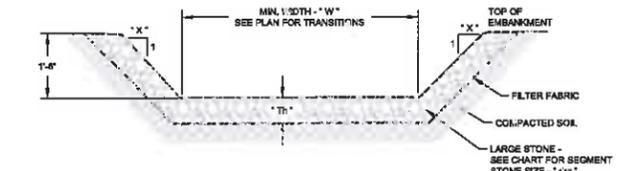


OUTLET PROTECTION DETAIL

GENERAL NOTES: 1. ALL PIPES SHALL BE 150 LB. PER SQ. FT. NYSDOT #4000 & 4\"/>

APRON DESIGN SCHEDULE

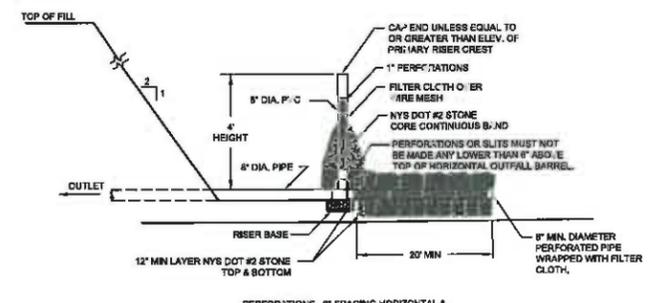
OUTLET TYPE	D ₀ "	L ₀ "	W ₀ "	450	T ₀ "
1	48"	24'-0"	24'-0"	1"	1'-0"



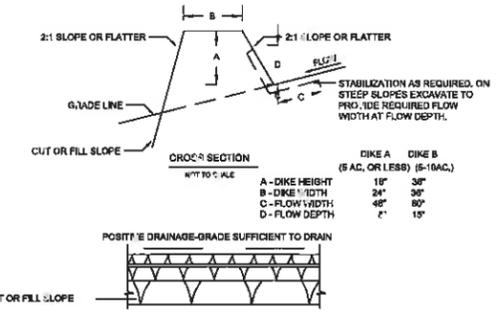
AUXILIARY SPILLWAY DETAIL
N.T.S.

AUXILIARY SPILLWAY SPECIFICATIONS

SEGMENT	T ₀ " (Minimum)	d ₅₀	LENGTH (FT)	BOTTOM WIDTH (FT)	TOP WIDTH (FT)	LONGITUDINAL SLOPE (%)	SIDE SLOPE X:1
UPPER	1'-0"	10"	40'	VARIABLES FROM 18" TO 24"	VARIABLES FROM 65" TO 48"	1.0%	5:1
MIDDLE	1'-0"	15"	45'	VARIABLES FROM 24" TO 18"	VARIABLES FROM 48" TO 22"	16.3%	VARIABLES 5:1 TO 2:1
LOWER	1'-0"	15"	50'	18"	21"	20.0%	2:1



TEMPORARY SEDIMENT TRAP DEWATERING DEVICE DETAIL
N.T.S.



EARTH DIKE DETAIL
N.T.S.

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTHMOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM FLOW. EROSION RUNOFF SHALL BE CONTAINED 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 ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH.

REDUCED SIZE PLAN NOT TO SCALE

DATE	REVISION

ENGINEERING, DESIGN, & PLANS PREPARED BY:
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DOUBLE JK RANCH						
TOWN OF DOVER			DUTCHESS COUNTY, NY			
SITE DETAILS						
DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	JOB NO.	SHEET NO.
12/19/12	AS NOTED	RAR	RED	RAR	12-008	3 of 3