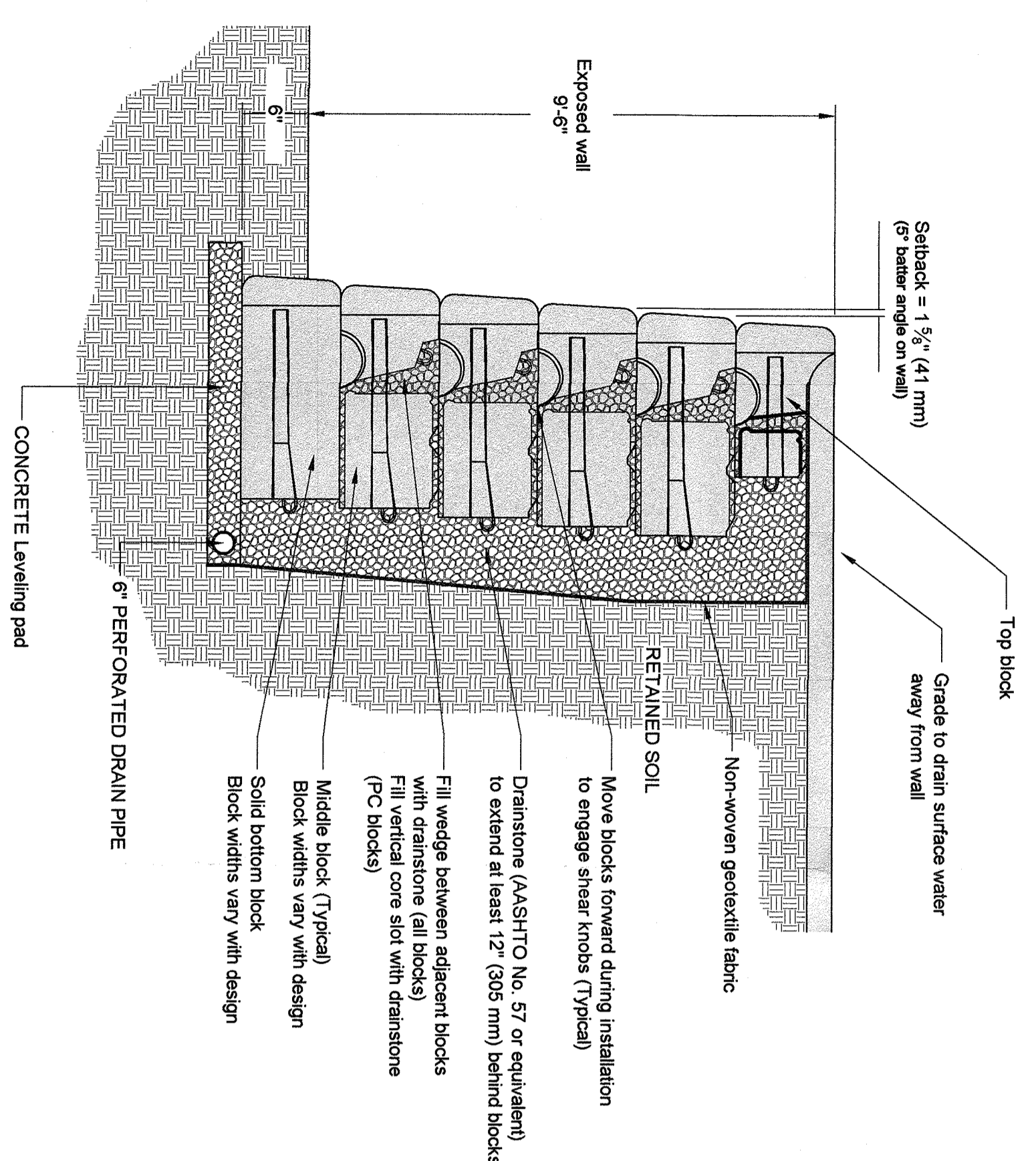
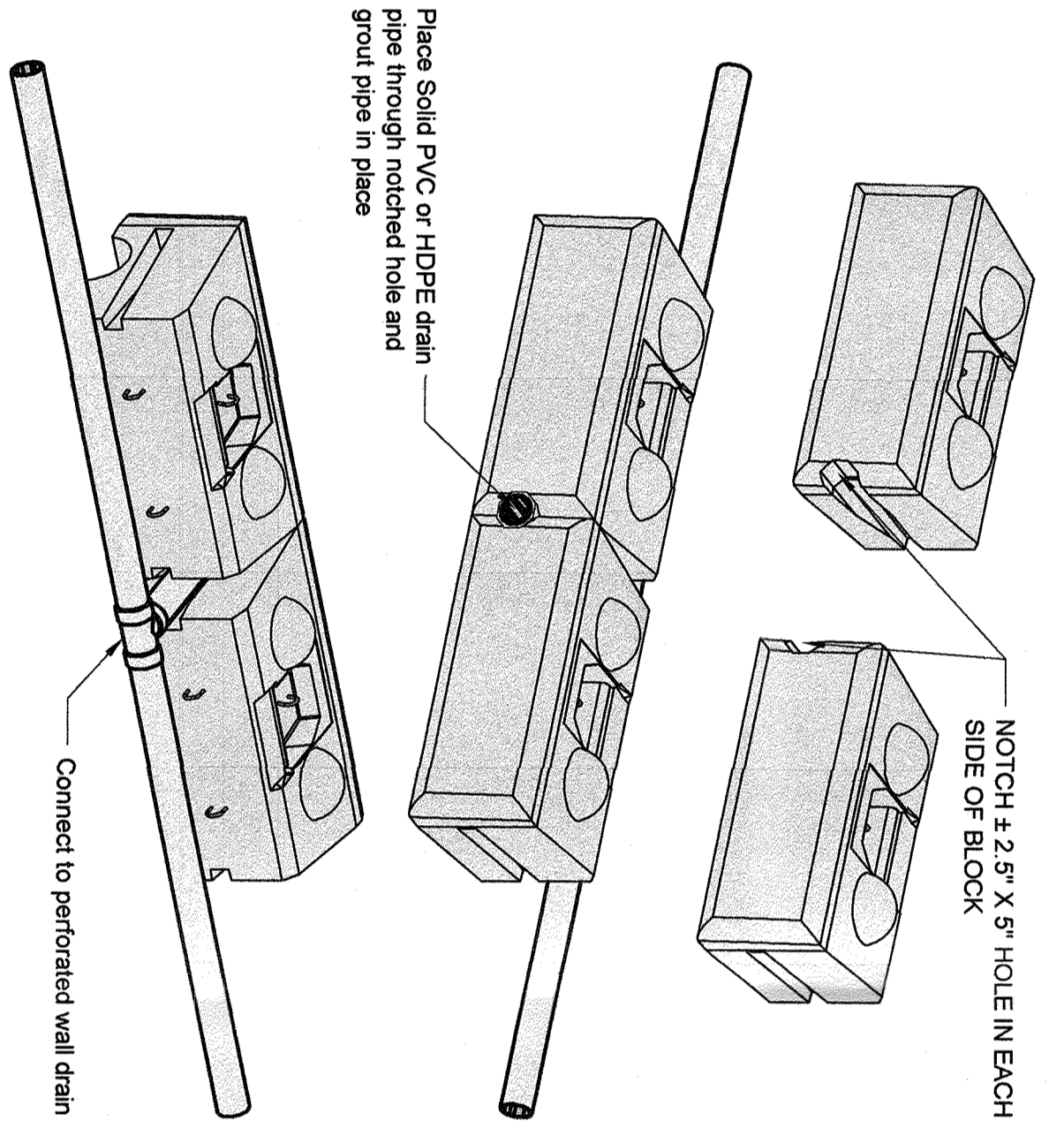


1 NEW PAVEMENT
SCALE: 1/2" = 1'-0"

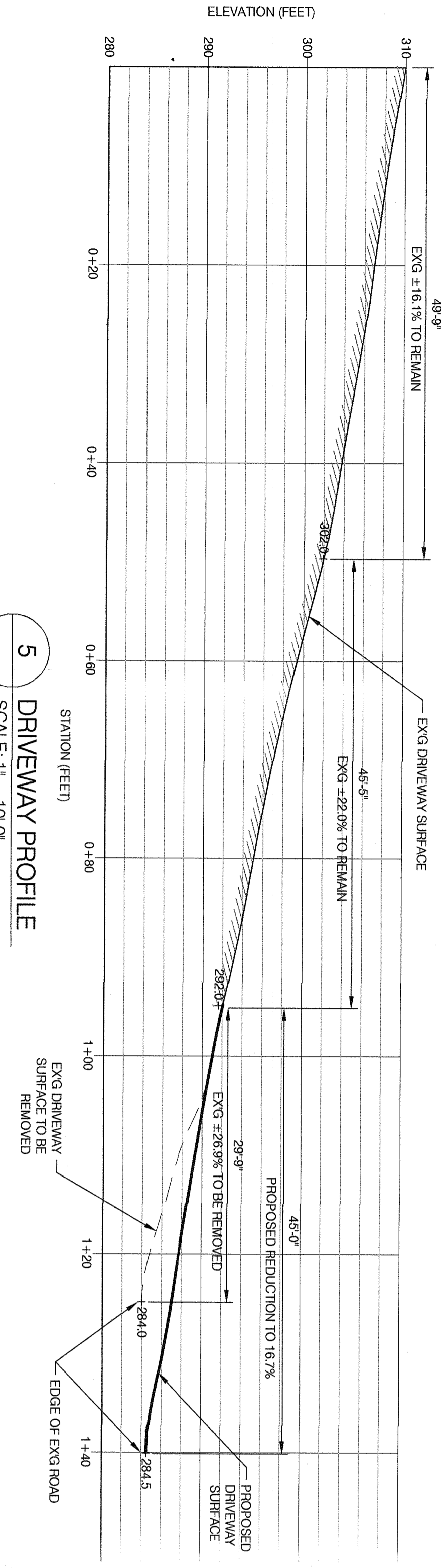


2 TYPICAL REDI-ROCK GRAVITY WALL
SCALE: 1/2" = 1'-0"

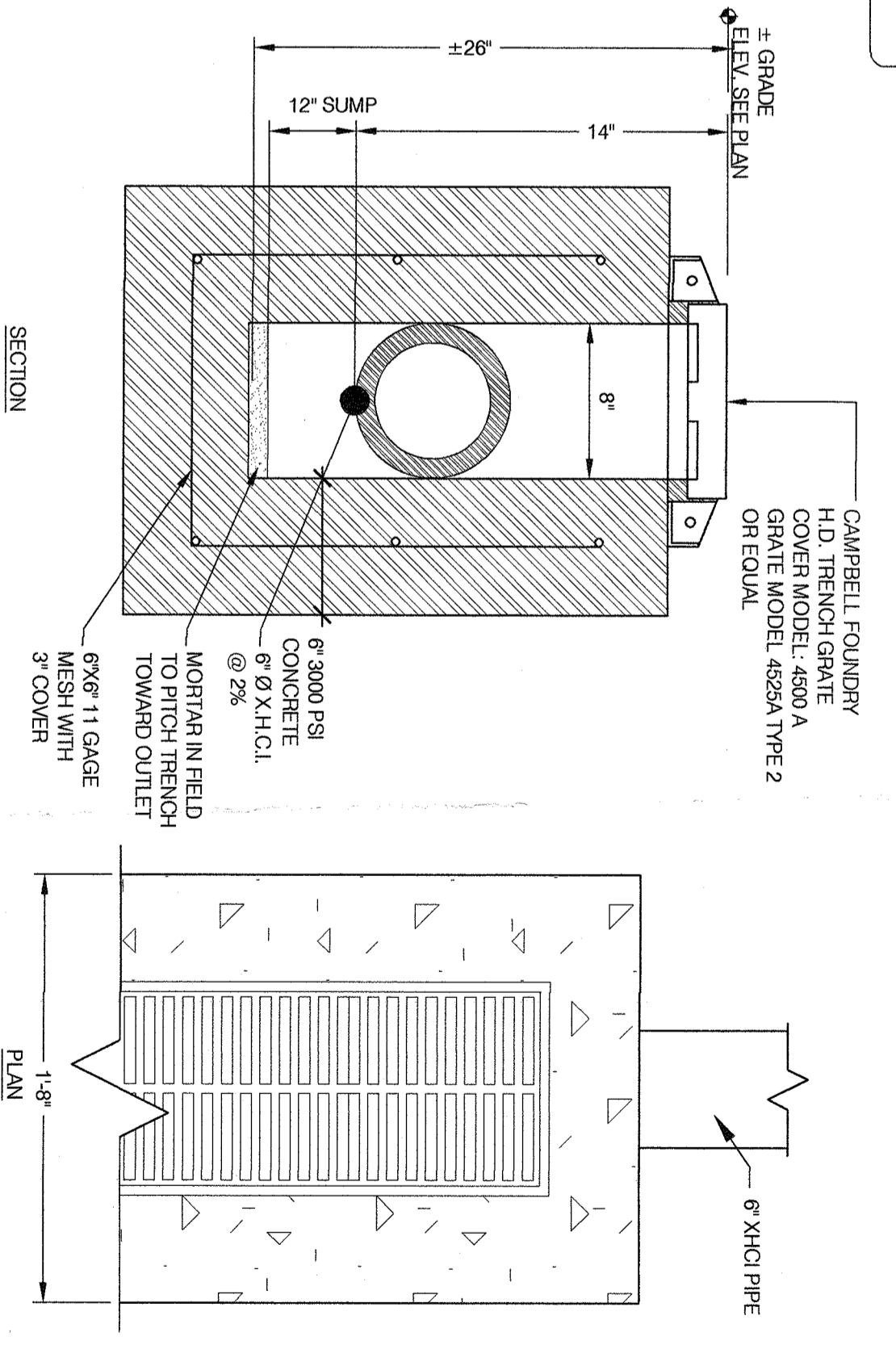


3 FOOTING DRAIN OUTLET PENETRATION
SCALE: NTS

NOTES
- CONTRACTOR TO VERIFY MINIMUM
SOIL BEARING CAPACITY OF 3000
PSF



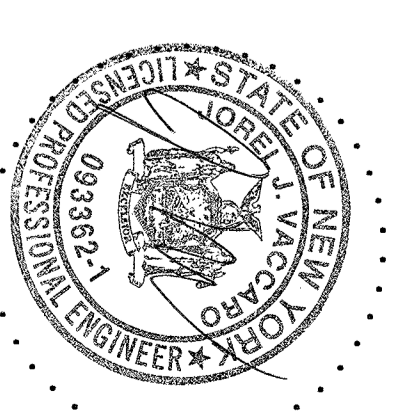
5 DRIVEWAY PROFILE
SCALE: 1" = 10'-0"



4 TRENCH DRAIN
SCALE: NTS

REVISIONS:

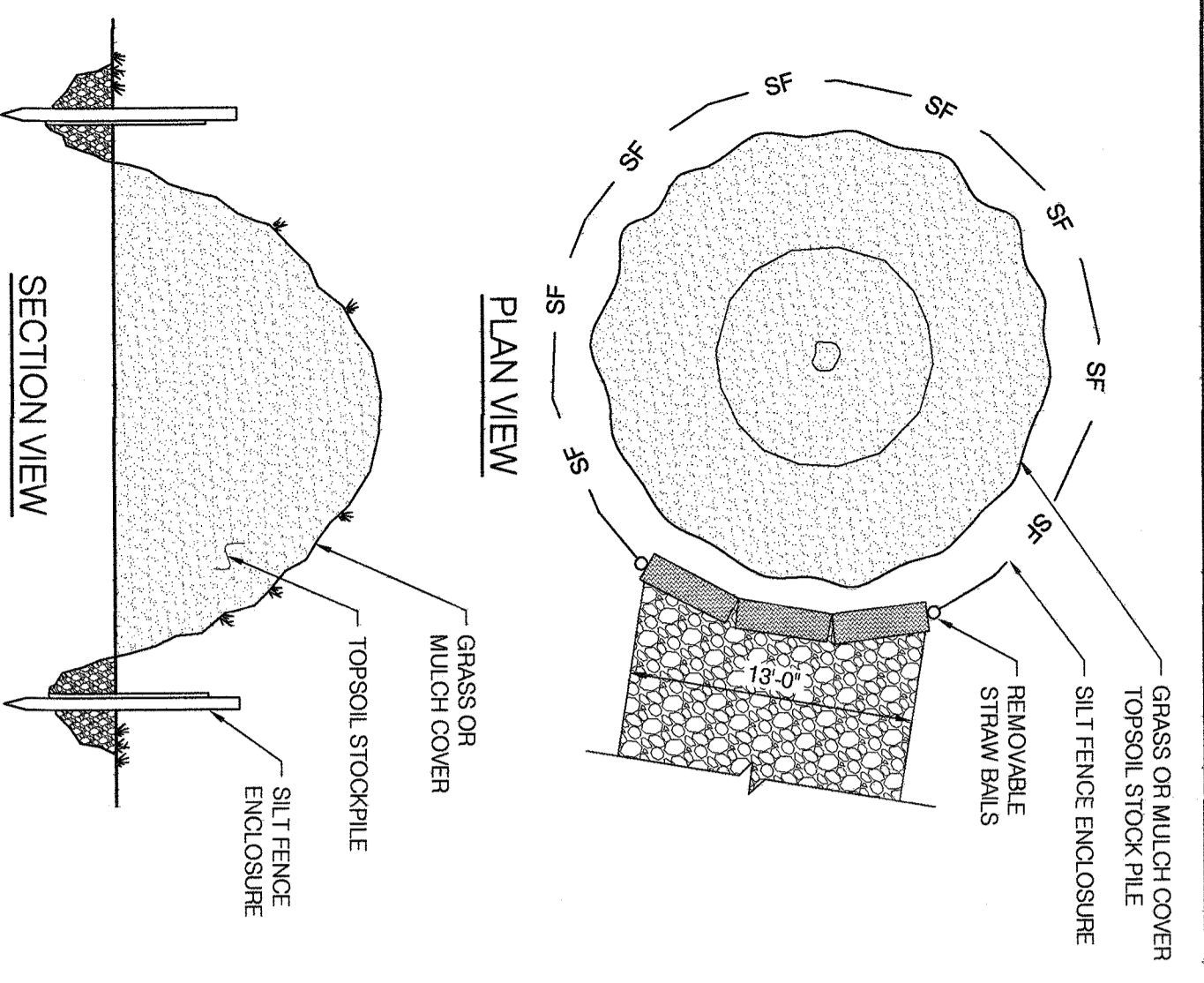
1	10/1/2020	PLANNING BOARD FOR FINAL
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RETAINING WALL
DETAILS

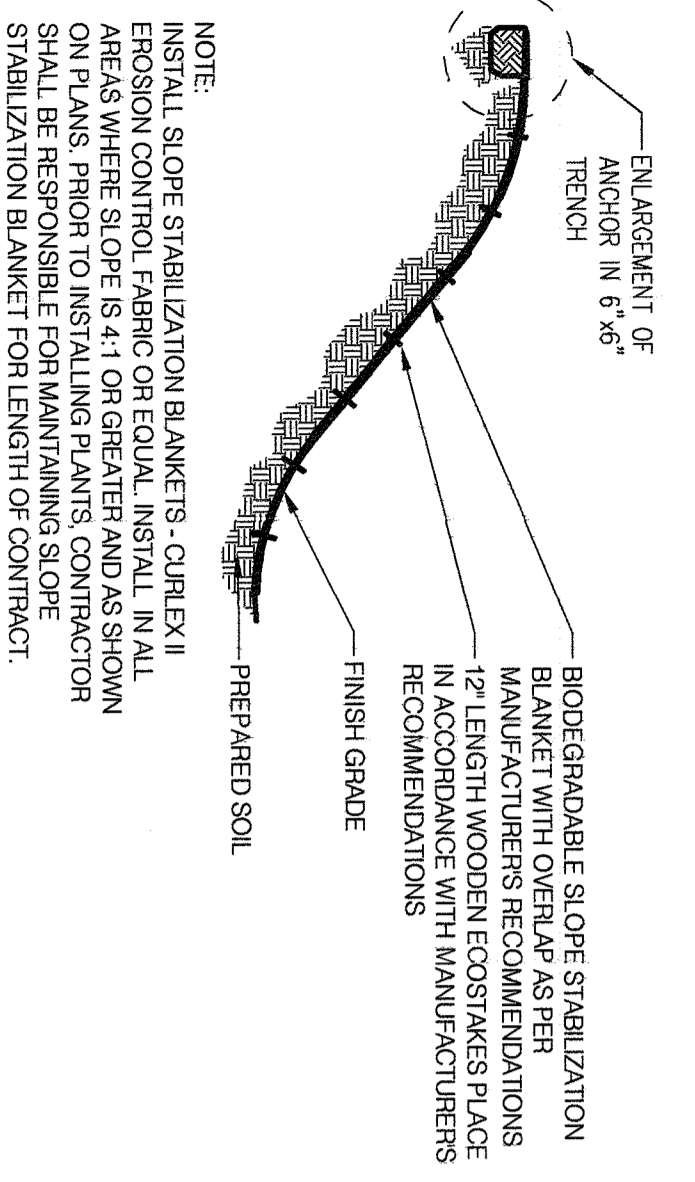
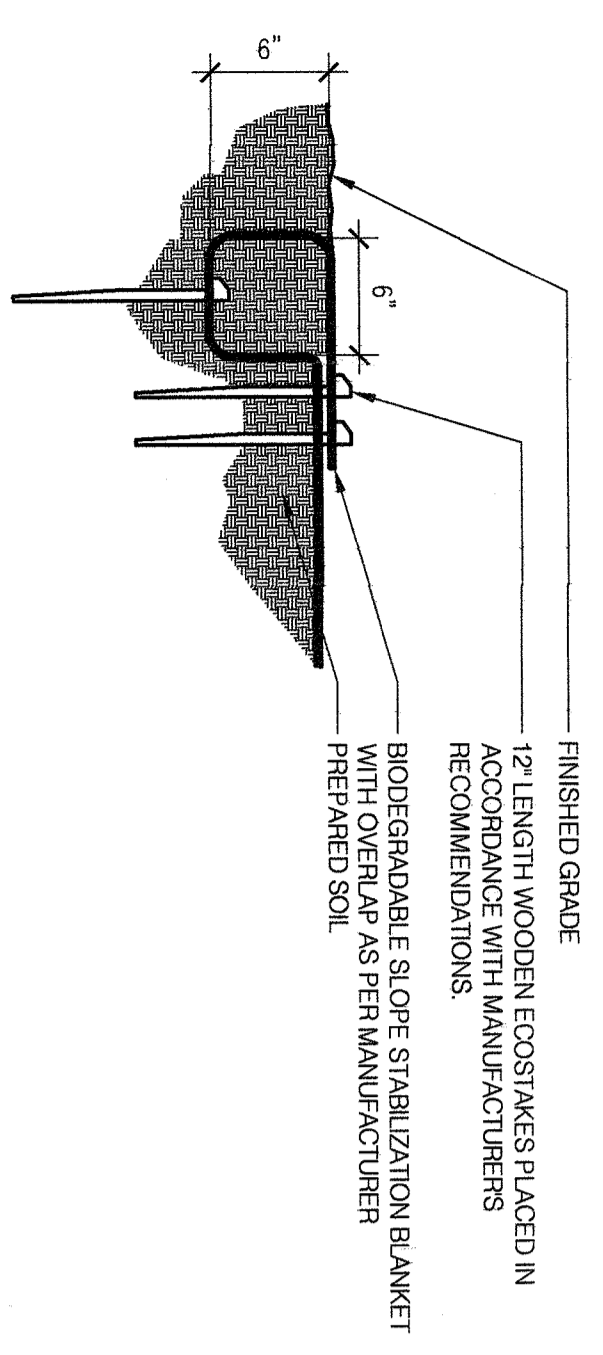
PROJECT:
814 ROUTE 9W
NYACK, NY

JOREL J. VACCARO, PE
NY PE 093382
DATE: 11/27/2019
PROJECT #: 1881
DRAWN/CHECKED: JLV
SCALE: NOTED
PAGE: 4 OF 05

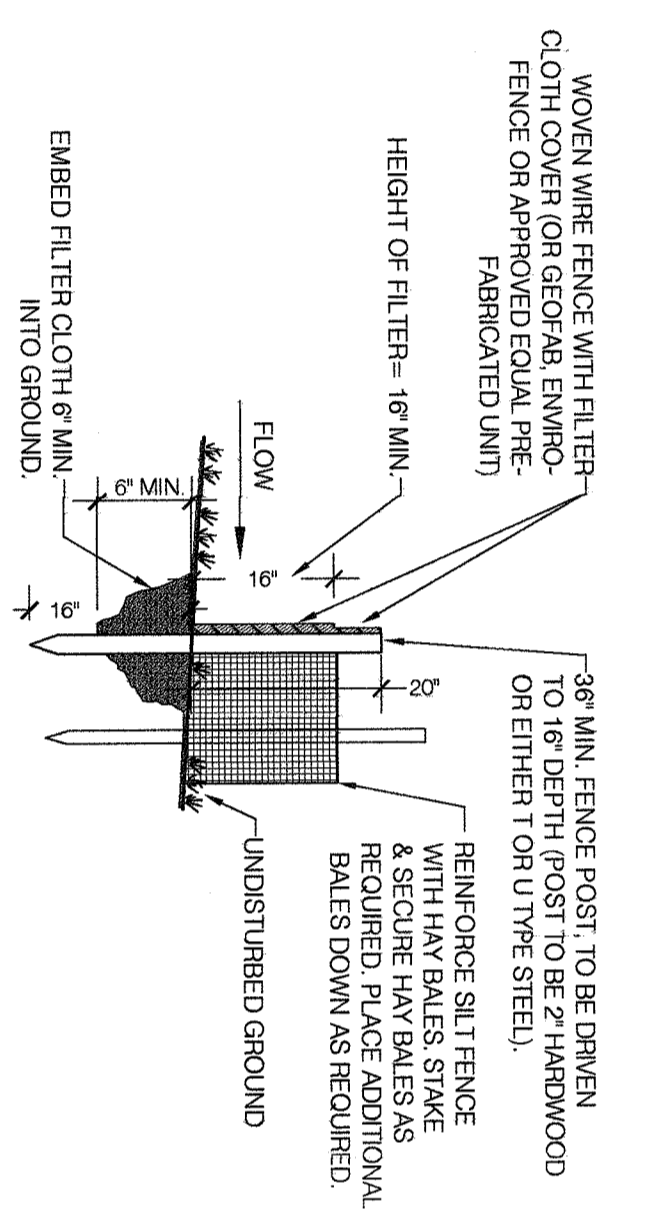


- NOTES:
1. TOPSOIL REMOVED DURING SITE PREPARATION SHALL BE STOCKPILED ON-SITE FOR FUTURE USE IN SITE RECLAMATION AND RESTORATION.
 2. SOIL STOCKPILE SHALL BE ENCLOSED WITH SILT FENCING WITH PASSAGEWAY PROVIDED FOR EQUIPMENT ACCESS.
 3. PROVIDE TEMPORARY GRASS OR MULCH COVER IF STOCKPILE IS TO REMAIN UNDISTURBED FOR THIRTY DAYS OR MORE. TEMPORARY COVER SHALL CONSIST OF ONE OF THE FOLLOWING MEASURES:
 - MULCH: 100 LBS OF STRAW OR HAY/1000 SF
 - MULCH: 100 LBS OF STRAW OR HAY/1000 SF

1 **DETAIL - SOIL STOCKPILE**
 SCALE: NTS

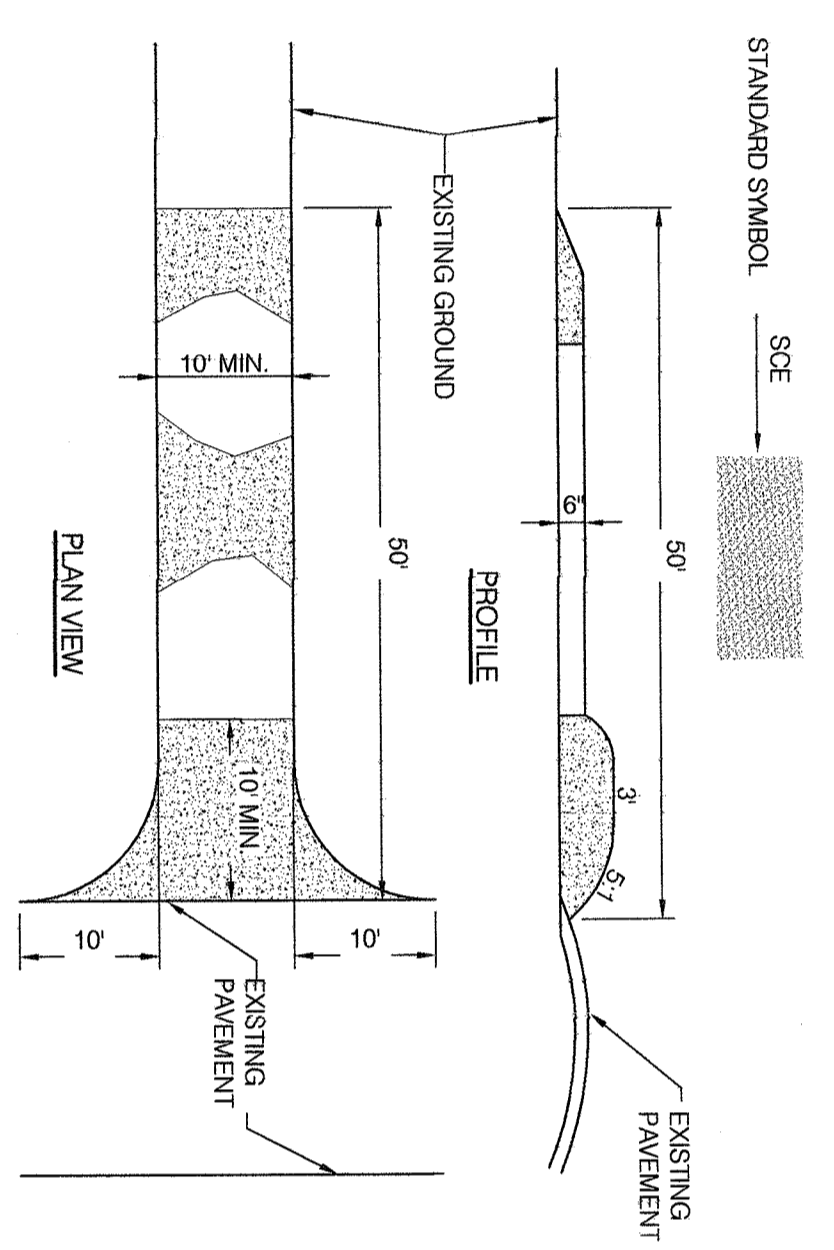


3 **SLOPE STABILIZATION DETAIL**
 SCALE: NTS



- NOTES:
1. POST SPACING TO BE 10' MAX. O.C.
 2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STRAPLES.
 3. WOVEN WIRE FENCE TO BE 14 GA. MIN., 6' MAX. SPACING.
 4. FILTER CLOTH TO BE FILTER X, MIMAT 100X OR APPROVED EQUAL.
 5. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH WIRE TIES SPACED EVERY 2' AT TOP AND MID SECTION.
 6. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED OR TIED TO A POST PROVIDE POST AT SPLICE.
 7. MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
 8. BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 9. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES AND PLACED SO THE BINDINGS ARE HORIZONTAL.
 10. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBAR DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PERIODICALLY LAD BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN 1 1/2 TO 2 INTO THE GROUND AND FLUSH WITH THE BALE PROMPTLY AS NEEDED.
 11. INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 12. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPED STORM FLOW OR DRAINAGE.

2 **DETAIL - SILT FENCE**
 SCALE: NTS

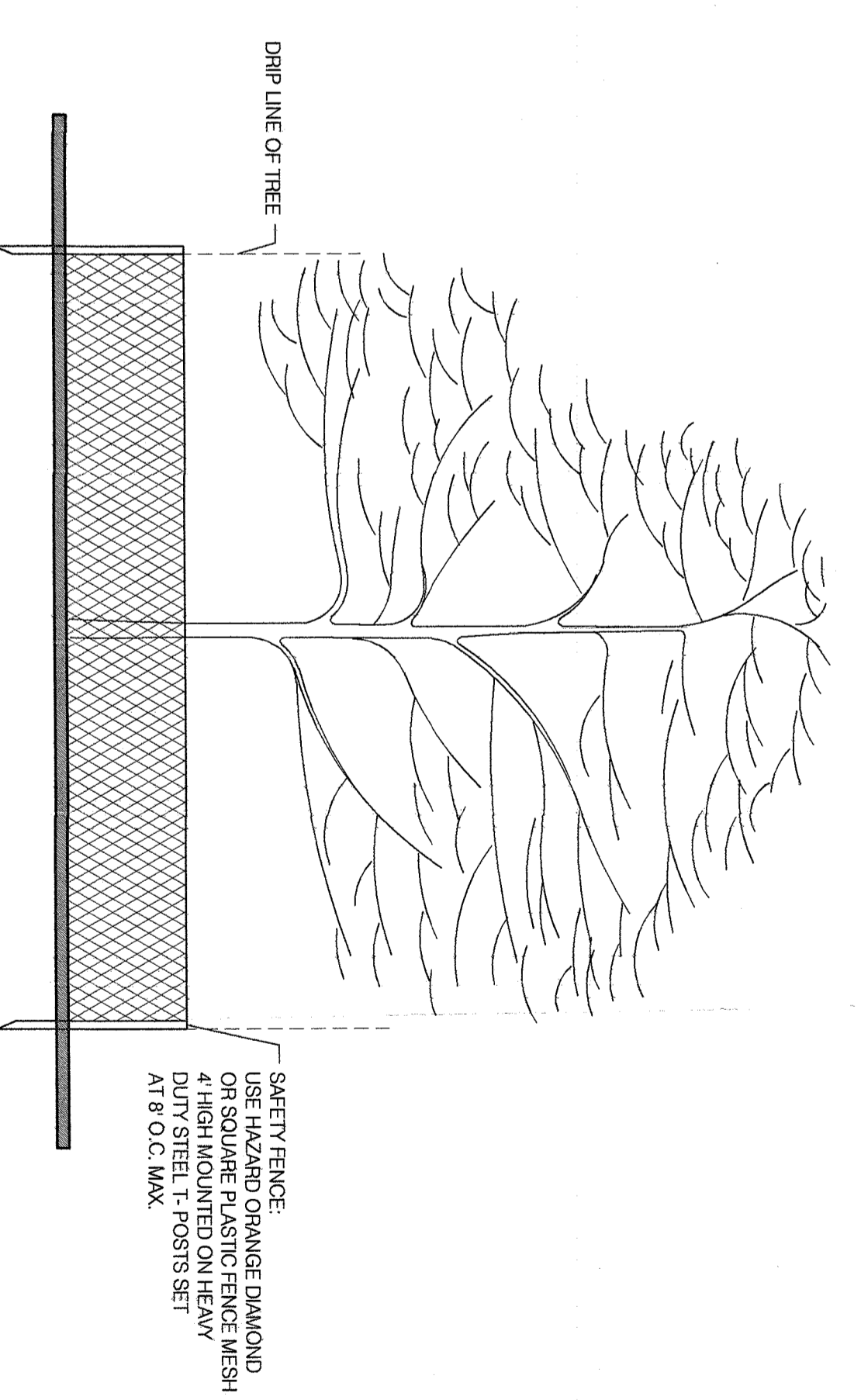


- CONSTRUCTION SPECIFICATIONS:
1. STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
 3. THICKNESS - NOT LESS THAN (6) INCHES.
 4. WIDTH - TEN (10) FOOT 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 PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTAINABLE BEAM WITH 6" SLOPE WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY MESSIAGE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. 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.

4 **STABILIZED CONSTRUCTION ENTRANCE**
 SCALE: NTS

- EROSION CONTROL:
1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN STATE STANDARDS AND WILL BE THE LEFT UNTO THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SEDIMENT ACCUMULATED ON THE SITE PRIOR TO THE NEXT RAINFALL. THE CONTRACTOR SHALL MAINTAIN THE DISTURBED AREA WITH MULCH OR STRAW AT ALL TIMES TO PREVENT EROSION AND SEDIMENTATION. MULCH SHALL BE SECURED BY IMMEDIATELY FOLLOWING INITIAL DISTURBANCE. EQUIPMENT SHALL BE PROTECTED BY A TEMPORARY SEEDING AND STABILIZATION SPECIFICATIONS.
 2. TEMPORARY SEEDING AND MULCHING:
 - A. TEMPORARY SEEDING - 11 LBS./1,000 SF - 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4" DEPTH.
 - B. PERMANENT SEEDING AND MULCHING:
 - A. TEMPORARY SEEDING - 11 LBS./1,000 SF - 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4" DEPTH.
 - B. PERMANENT SEEDING - 11 LBS./1,000 SF - 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4" DEPTH.
 3. MULCH - SALT HAY OR SMALL GRASS STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY PERMANENT SEEDING AND MULCHING.
 4. TEMPORARY SEEDING AND MULCHING:
 - A. TEMPORARY SEEDING - 11 LBS./1,000 SF - 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4" DEPTH.
 - B. PERMANENT SEEDING AND MULCHING:
 - A. TEMPORARY SEEDING - 11 LBS./1,000 SF - 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4" DEPTH.
 - B. PERMANENT SEEDING - 11 LBS./1,000 SF - 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4" DEPTH.

5. THE SITE SHALL AT ALL TIMES BE GRASSED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
6. SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
7. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOOD PLAIN SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A STRAW BALE SEDIMENT BARRIER AND/OR SALT FENCE.
8. A CRUSHED STONE VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 1" - 2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' X 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT MAXIMUM SIDE SLOPES SHALL BE 3:1. ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE ENGINEER.
9. ALL SOIL WASHED DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR INTO PUBLIC RIGHT-OF-WAYS, WILL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
10. ALL SOIL WASHED DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR INTO PUBLIC RIGHT-OF-WAYS, WILL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
11. STORM DRAINAGE OUTLETS WILL BE PROTECTED WITH AN ULTRAFILTER DESIGNED IN ACCORDANCE WITH NY STANDARDS.
12. CATCH BASIN INLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
13. DUST SUPPRESSANT OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH NY STANDARDS.
14. DUST SHALL BE CONTROLLED VIA THE APPLICATION OF WATER, CALCIUM CHLORIDE OR OTHER APPROVED METHODS IN ACCORDANCE WITH NY STANDARDS.
15. TREES TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED BY A SALT FENCE INSTALLED AT THE DRP LINE OR BEYOND IN ACCORDANCE WITH NY STANDARDS.
16. THE PROJECT OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORM WATER OUTFALLS ON OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
17. ANY REVISION TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION IN THE FIELD.
18. SALT FENCING SHALL BE ADJUSTED IN FIELD AND NOT ENCLOSED ONTO EXISTING TREES TO REMAIN AND SHALL ENCOMPASS DRAINS OR DISTURBANCE INCLUDING THE TREE PROTECTION AND PRESERVATION. WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREA WITH MANY TREES. STEPS THAT WILL BE TAKEN TO RESERVE AND PROTECT EXISTING TREES TO REMAIN ARE AS FOLLOWS:
 - A. CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
 - B. THERE WILL BE NO EXCAVATION OR STOCKPILING OF EARTH UNDERNEATH THE TREES.
 - C. TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10 FOOT HEIGHT.
 - D. THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:
 - i. ONE (1) FOOT THICK FENCE FROM TRACK PERMANENT DSH.
 - ii. ONE (1) FOOT THICK FENCE FROM TRACK PERMANENT DSH.
19. LIGHT IMPACT ONLY - INSTALLATION OF 1" INCH OR PLWOOD OR BOARDS OR EQUAL OVER THE AREA TO BE PROTECTED. CHIPS SHALL BE REMOVED UPON COMPLETION OF WORK.
20. CHANGE GRADE WITHIN THE TREE PROTECTION ZONE AND PRESERVE THE TREE PROTECTION ZONE. THE TREE PROTECTION ZONE SHALL BE PRESERVED AND/OR PREPARED IN A RASSED BED WITH THE TREE WELL A MINIMUM OF THREE (3) FEET LARGER THAN THE TREE CANOPY.
21. PRIOR TO THE COMMENCEMENT OF ANY SITE WORK, INCLUDING THE REMOVAL OF TREES, THE CONTRACTOR SHALL INSTALL THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN AS REQUIRED BY THE DRAWINGS. PRIOR TO THE AUTHORIZATION TO PROCEED WITH ANY PHASE OF THE SITE WORK, THE ENGINEER SHALL BE NOTIFIED IN ADVANCE TO INSPECT THE INSTALLATION OF ALL REQUIRED SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST 48 HOURS IN ADVANCE FOR AN INSPECTION.
22. ANY PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT IMMEDIATELY FOLLOWING GROWING SEASON. IF THE CONTRACTOR, DURING THE COURSE OF CONSTRUCTION, ENCOUNTERS SUCH CONDITIONS AS FLOOD AREA, UNDERGROUND WATER, SOFT OR SILTY AREAS, IMPROPER DRAINAGE, OR ANY OTHER UNUSUAL CIRCUMSTANCES OR CONDITIONS THAT WERE NOT FORESEEN IN THE ORIGINAL PLANNING, SUCH CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER OF RECORD. THE CONTRACTOR MAY SUBMIT THEIR RECOMMENDATIONS AS TO THE SPECIAL TREATMENT TO BE GIVEN SUCH AREAS TO SECURE ADEQUATE PERMANENT AND SATISFACTORY CONSTRUCTION.
23. THE CONTRACTORS TRAILER, IF ANY IS PROPOSED, SHALL BE LOCATED AS APPROVED BY THE MUNICIPALITY.
24. PERMANENT VEGETATION COVER OF DISTURBED AREAS SHALL BE ESTABLISHED ON THE WITHIN THIRTY (30) DAYS OF THE COMPLETION OF CONSTRUCTION.
- 25.
- 26.



1. THE PROJECT DRIVER OPERATOR SHALL TAKE REASONABLE PRECAUTION TO SAVE SPECIMEN QUALITY TREES IN AREAS NOTED ON THE PLANS FOR CLEARING. WHEN POSSIBLE, THE DRIVER OPERATOR SHALL PROTECT INDIVIDUAL SPECIMEN TREES THROUGH THE INSTALLATION OF SAFETY FENCING AROUND THE DRP LINE PERIMETER OF THE TREE.
2. SAFETY FENCING SHALL BE INSTALLED AT THE ONSET OF SITE CONSTRUCTION TO PREVENT VEHICLE TRAFFIC FROM COMPACTING THE SOILS IN THE VICINITY OF THE TREE ROOT STRUCTURE.