

**CONSTRUCTION SEQUENCES**

1. INSTALL SILT FENCE AS PER PLAN AND DETAILS.
2. ALL SEDIMENT AND EROSION CONTROL MEASURES AS PER PLAN AND DETAILS.
3. CONSTRUCT EMBANKMENT AND OUTLET STRUCTURE AS PER PLAN AND DETAILS.
4. APPLY SEED AND MULCH TO EMBANKMENT AREA ACCORDING TO SCHEDULE AT ALL LOCATIONS WHERE DISTURBANCE HAS BEEN COMPLETED. MAINTAIN UNTIL VEGETATION ESTABLISHED.
5. CONSTRUCT SPLITTER STRUCTURE AS PER PLAN AND DETAILS.
6. APPLY SEED AND MULCH ACCORDING TO SCHEDULE AT ALL LOCATIONS WHERE DISTURBANCE HAS BEEN COMPLETED. MAINTAIN UNTIL VEGETATION HAS ESTABLISHED.

**EROSION AND SEDIMENT CONTROL NOTES**

THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND INSTRUMENTS REQUIRED TO ASSURE ADEQUATE ENVIRONMENTAL PROTECTION INCLUDING IMPLEMENTATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES AND SITE RESTORATION MEASURES AS SHOWN, SPECIFIED, AND REQUIRED TO COMPLETE THE WORK.

**MANAGEMENT STRATEGIES**

1. THE RECOMMENDED CONSTRUCTION SEQUENCE INCLUDED AS PART OF THIS DESIGN SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE IN ORDER TO MINIMIZE SEDIMENT AND EROSION LOSS AND EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE THE START OF CONSTRUCTION.
2. ALL SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED PER PLAN AND THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
3. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE.
4. SEEDING AND MULCHING SHALL BE COMPLETED WITHIN 48 HOURS OF DISTURBANCE.
5. ALL CONSTRUCTION ACTIVITIES SHOULD TAKE PLACE DURING DRY CONDITIONS, IF POSSIBLE. SCHEDULE CONSTRUCTION OF BAYS SENSITIVE TO EROSION AND STORM WATER RUNOFF TO TAKE PLACE DURING PERIODS OF LOW FLOW.
7. ANY CHANGE IN CONSTRUCTION DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE OF EROSION CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER.
8. TEMPORARY SEED AND MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING.
9. SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED CONTINUOUSLY, ESPECIALLY FOLLOWING SIGNIFICANT STORM EVENTS TO LOCATE FAILING CONTROL MEASURES AND CONDUCT ROUTINE MAINTENANCE OPERATION.
10. SEDIMENTATION CONTROL PROGRAM SHALL INCLUDE ALL ON-SITE WORKERS OF THE PROJECT.
11. POND SHALL HAVE ALL SEDIMENT REMOVED ON A ROUTINE BASIS DURING CONSTRUCTION.
12. ALTERNATIVES TO THE SUGGESTED PRACTICES ARE POSSIBLE AND SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

**VEGETATIVE CONTROL PRACTICES**

1. TOPSOIL STOCKPILING: TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED BY THE OWNER AND ENGINEER.
2. TEMPORARY SEEDING: THE TEMPORARY SEDIMENT BASINS, TOPSOIL STOCKPILE, AND ROUGH GRADED AREAS SHALL BE SEEDING WITH WINTER RYE AT A RATE OF 30 LBS. STOCKPILES OF FILL AND/OR TOPSOIL THAT ARE TO BE STORED IN EXCESS OF 14 DAYS SHALL BE PROTECTED FROM WIND AND WATER EROSION. METHODS SHOULD INCLUDE COVERING WITH MULCH, PLACING A GEOTEXTILE OVER THE STOCKPILE, AND FINISHED GRADING.
4. PERMANENT SEEDING OF ALL DISTURBED AREAS SHALL BE WITHIN 48 HOURS OF FINISHED GRADING.

**A. SITE PREPARATION**

- A. COMPLETE ALL ROUGH GRADING ACTIVITIES.
- B. REMOVE ALL ROCKS AND DEBRIS LARGER THAN 3" IN DIAMETER FROM AREAS TO BE TEMPORARILY STOCKPILED.
- C. APPLY MULCH TO STOCKPILES AT A RATE OF 10 LBS PER SQUARE FOOT.
- D. EVENLY APPLY 14 LBS PER ACRE OF 5-10-10 FERTILIZER TO A DEPTH OF 4" USING SUITABLE EQUIPMENT.
- E. APPLY MULCH TO STOCKPILES AT A RATE OF 10 LBS PER SQUARE FOOT.
- F. THE FAST TRACK OPERATION SHALL BE PERFORMED ACROSS THE SLOPE.

**B. ESTABLISHMENT**

- A. ABOVE BY MEANS OF BROADCASTING OR HYDRO SEEDING.
- B. UNLESS HYDRO SEEDING, COVER SEED WITH 1/2" TO 3/4" OF TOPSOIL.
- C. VERIFY SEEDING UNIFORMITY BY FOLLOWING SEEDING.
- D. MULCHING SHALL BE APPLIED TO THE EXPOSED SURFACE TO STABILIZE THE SOIL.
- E. PERMANENT SEEDING SHALL BE APPLIED BETWEEN APRIL 15 AND SEPTEMBER 30.
- F. TEMPORARY SEEDING SHALL BE TO ALL DISTURBED AREAS OUTSIDE THIS TIMEFRAME, UPON APPROVAL OF THE ENGINEER.

**C. MAINTENANCE**

- A. ALL SEEDING/MULCHED AREAS SHALL BE INSPECTED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.

**NONSTRUCTURAL CONTROL PRACTICES**

1. SCARIFICATION: EXPOSED SLOPES EXCEEDING 4:1 SHALL BE SCARIFIED AT RIGHT ANGLES TO THE SLOPE. PROVIDE PERIODIC GRADING OR SERATIONS DURING EXPOSED PERIOD UNTIL VEGETATION IS ESTABLISHED. PROVIDE VEGETATIVE COVER AS SOON AS POSSIBLE. SCARIFICATION SHALL BE COMPLETED WITHIN 48 HOURS OF DISTURBANCE AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE APPROVED BY THE OWNER AND ENGINEER.
2. MULCH: MULCH SHALL BE APPLIED IN CONJUNCTION WITH TEMPORARY/PERMANENT SEEDING. MULCH SHALL BE APPLIED TO ALL EXPOSED SURFACES TO STABILIZE SOIL. STOCKPILE LOCATION SHALL BE APPROVED BY THE OWNER AND ENGINEER.
3. CONTRACTOR SHALL PERIODICALLY INSPECT AND REAPPLY AS NECESSARY, PARTICULARLY IN DISTURBED AREAS. MULCH SHALL BE TOP SOILED PRIOR TO SEED APPLICATION.
- A. REMOVE ALL ROCKS AND DEBRIS OVER 1-1/2" IN DIAMETER.
- B. SCARIFY SURFACE PRIOR TO SEED APPLICATION.
- C. APPLY 6" DEPTH OF TOPSOIL.

4. SILT FENCE: SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE, AT ALL OUTLET LOCATIONS, AND AS INDICATED ON THE DRAWINGS. SILT FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE REPAIRED IMMEDIATELY AFTER STORM EVENTS UNTIL THE SITE HAS BEEN STABILIZED BY VEGETATION.

**STRUCTURAL CONTROL PRACTICES**

1. RIP RAP OUTLET PROTECTION: RIPRAP SHALL BE PROVIDED AS SHOWN ON THE PLANS. MATERIAL SHALL BE HARD, DURABLE, FIELD OR QUARRY STONE WHICH IS ANGULAR AND FREE FROM FINE PARTICLES. RIPRAP SHALL BE PLACED IN A SINGLE COURSE AND WATERWAYS AND CULVERT OUTLETS SHOULD BE INSTALLED WITHIN 24 HOURS AFTER CONSTRUCTION OF THE WATERWAY AND/OR CULVERT.
2. TEMPORARY SEDIMENT BASINS: TEMPORARY SEDIMENT BASINS SHOULD BE PLACED TO A GRASS AREA AWAY FROM ANY WATERWAY (< 200FT) TO ALLOW FILTERING OF THE WATER.
3. TEMPORARY SEDIMENT BASIN: PROPOSED POND SHALL ACT AS TEMPORARY SEDIMENT BASIN. WHILE WORK IS PROCEEDING.
5. MAINTENANCE SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT.

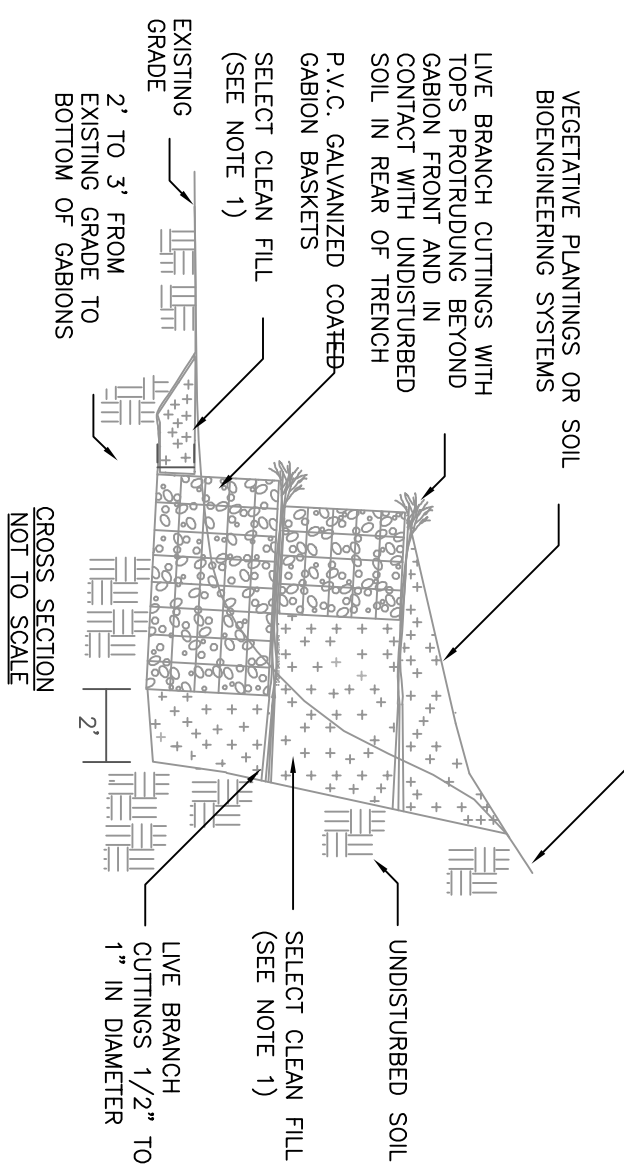
**TEMPORARY STABILIZATION PLANNING NOTES**

1. WATER MANAGEMENT PRACTICES MUST BE INSTALLED AS APPROPRIATE FOR SITE CONDITIONS.
2. ROUGH GRADE AREA AND ASSURE THAT SLOPES ARE PHYSICALLY STABLE.
3. SEED WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION OF THE SOIL. SURFACE WILL BE NECESSARY.
4. IF SEEDING IN SPRING, SUMMER OR EARLY FALL, SEED WITH PERGRASS (ANNUAL OR PERENNIAL) AT 30 LBS PER ACRE. (-0.7 LB./1,000 SQ.FT. 1 LB./ACRE MAY BE USED).
5. IF LATE FALL OR EARLY WINTER, THEN SEED GERMINATED ASTOONK WINTER RYE (GERAL RYE) AT 100 LBS PER ACRE (2.5 LBS./1,000 SQ. FT.).
6. USE HYDROSEEDING IN ORDER TO RESULT IN GOOD SOIL TO SEED CONTACT.
7. MULCH WITH HAY OR STRAW AT 2 TONS/ACRE (-90LBS./1,000 SQ. FT. OR TWO BALS).
8. MUCH ANCHORING IS REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN.
9. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

**CONSTRUCTION SPECIFICATIONS**

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED PER PLAN AND THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AREAS TO BE FILLED SHALL BE CLEARED, CRIBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBSTRUCTABLE MATERIAL.
4. FOUR NOTES PRIOR TO PLACEMENT OF TOPSOIL.
5. SETTLEMENT SUBSIDENCE OR OTHER RELATED PROBLEMS, FILL INTENDED TO ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OTHER OBSTRUCTABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF STOCKPILES.
7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF STOCKPILES.
9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
10. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING CONSTRUCTION.
14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.
15. THE SOIL SHOULD BE RECLASSIFIED IN GEOTECHNICAL REPORT INCLUDING SUBSURFACE MATERIALS AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

**EXCAVATION AS REQUIRED**

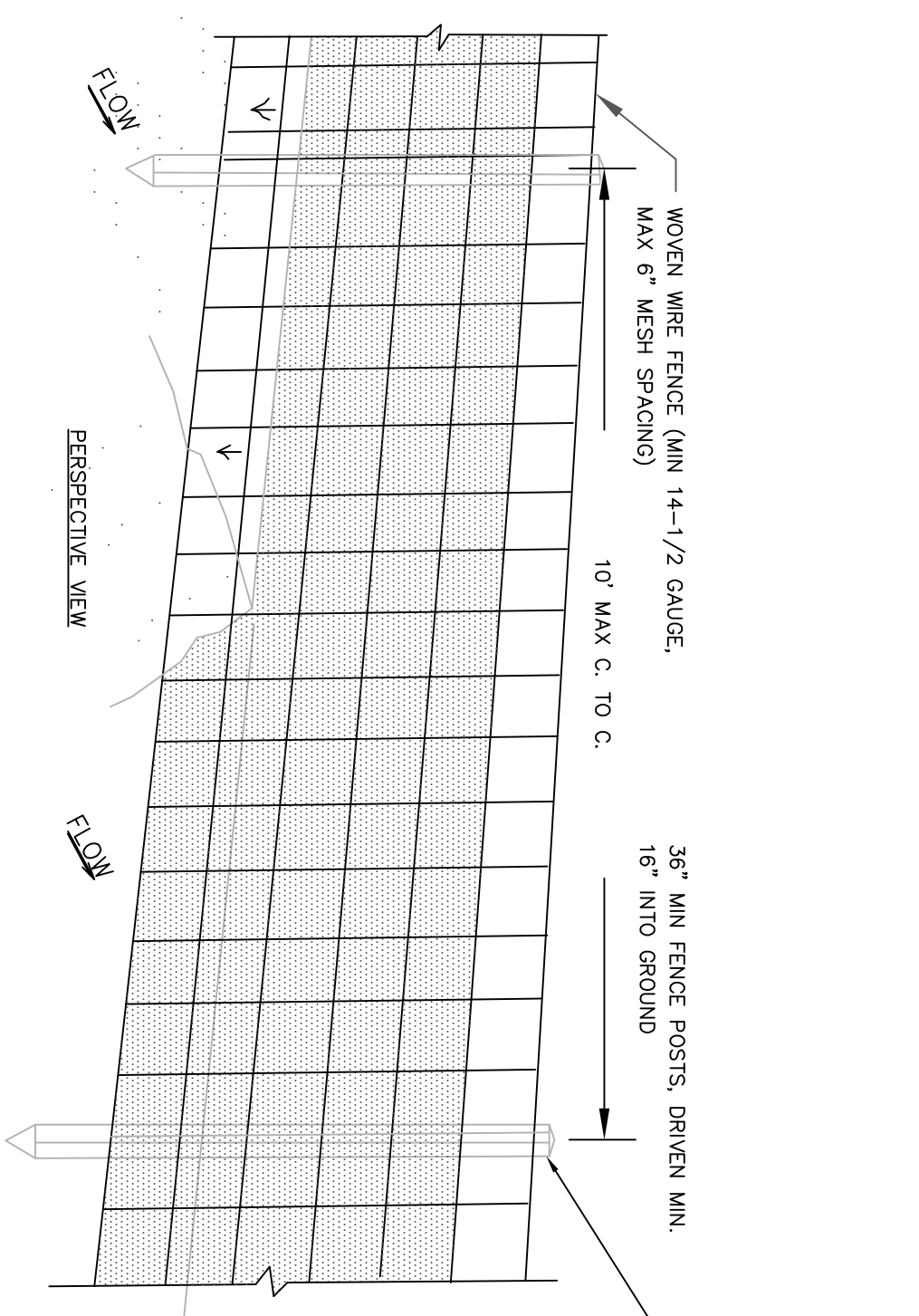


**CONSTRUCTION SPECIFICATIONS**

1. BACKFILL BEHIND GABIONS HAND TAMPED IN 6" LIFTS.
2. A 1" LAYER OF BACKFILL SHALL BE PLACED ON TOP OF THE ROW OF GABIONS AND RAKED. THE CUTTINGS SHALL BE PLACED ON THE BACKFILL MATERIAL AND THE GABIONS.
3. CLASS 2, TYPE B OR C, INTERMEDIATE EROSION CONTROL PRODUCT SHALL BE PLACED ON THE SURFACE OF THE GABIONS.

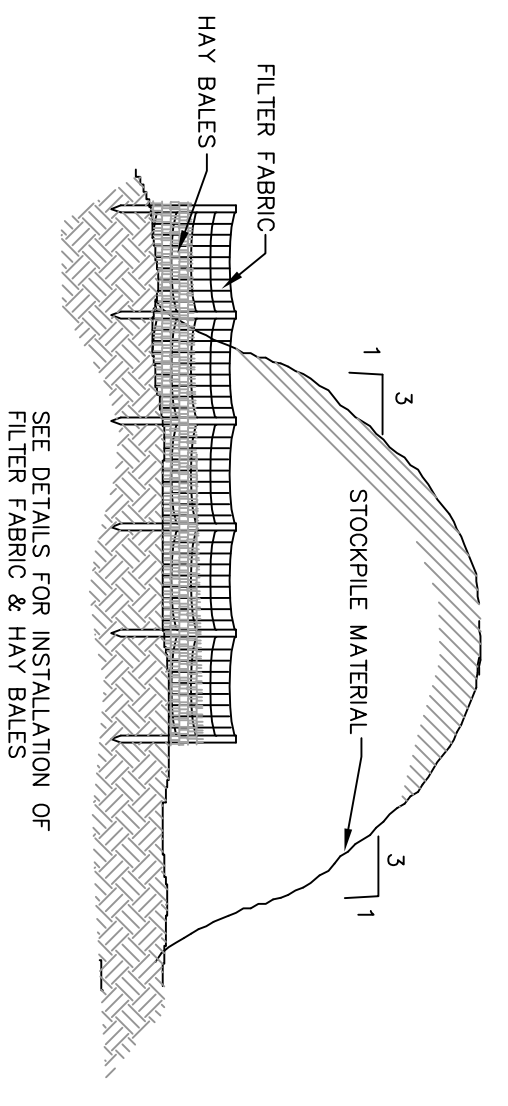
**4 VEGETATED ROCK GABION**

SCALE: N.T.S.



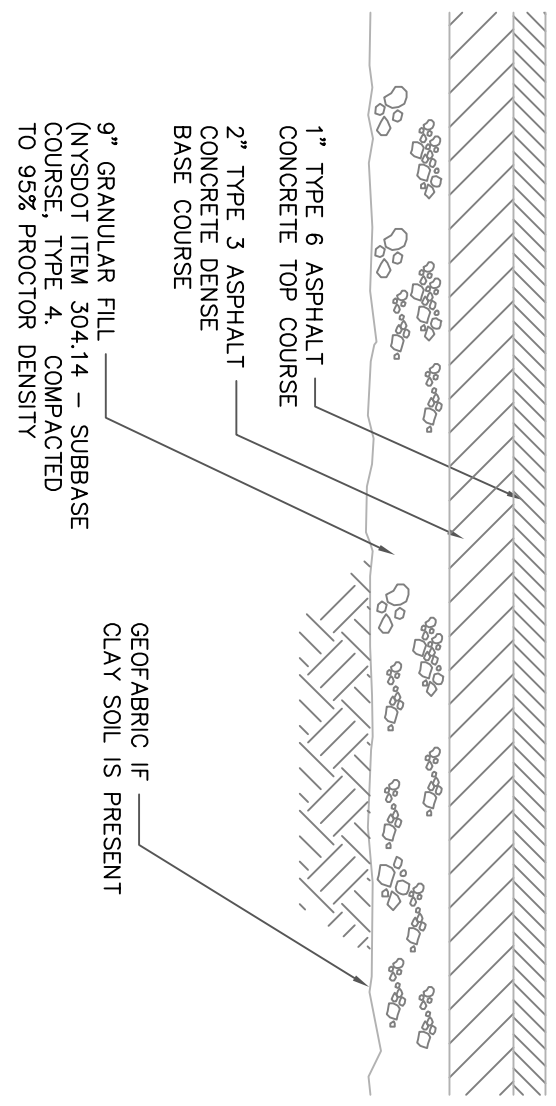
**1 SILT FENCE DETAIL**

SCALE: N.T.S.



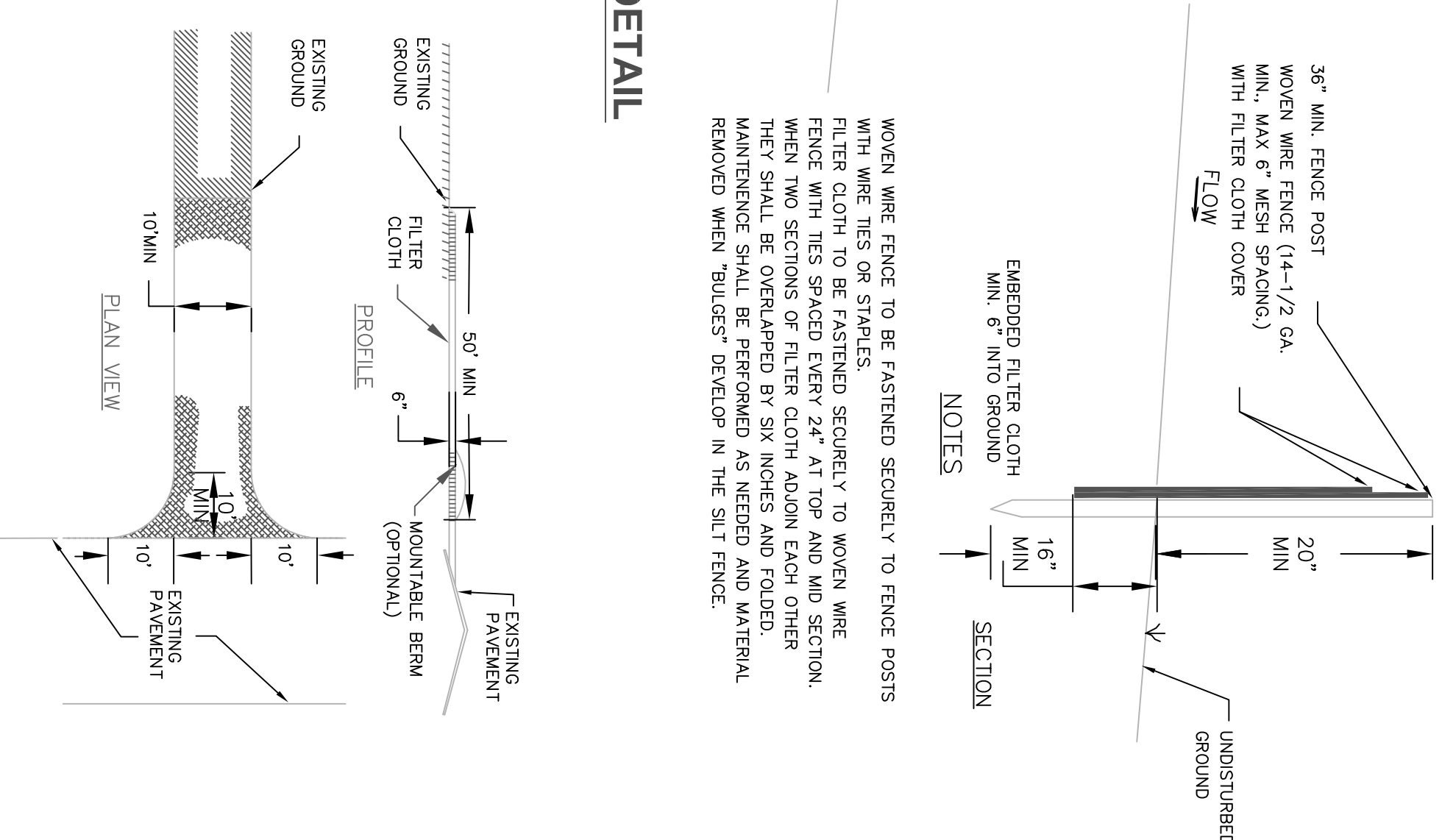
**2 TYPICAL STOCKPILE DETAIL**

SCALE: NONE



**3 STANDARD PAVEMENT DETAIL**

SCALE: N.T.S.



**4 STABILIZED CONSTRUCTION ENTRANCE**

SCALE: N.T.S.

- NOTES**
1. STONE SIZE-- USE 2" STONE OR EQUIVALENT OR RECYCLED CONCRETE EQUIVALENT
  2. LENGTH-- AS REQUIRED, BUT NOT LESS THAN 50 FEET
  3. THICKNESS-- NOT LESS THAN 6 INCHES
  4. WIDTH-- TEN FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS OF INGRESS AND EGRESS.
  5. FILTER CLOTH-- WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
  6. SURFACE WATER-- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PREP ACROSS THE ENTRANCE, WHERE PIPPING IS IMPRACTICAL.
  - A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

**SHOKAN STORE IT LLC**  
 EXPANSION  
 SBL 46-5-3-6-1  
 7 RIDGE ROAD  
 SHOKAN NY

Scale:  
 AS NOTED  
 Drawn By:  
 M. NORTH  
 DATE  
 JANUARY 8, 2023  
 NOVEMBER 6, 2023

**ESC & SITE**  
 DETAILS  
 TOWN OF OLIVE  
 PLANNING BOARD REVIEW

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