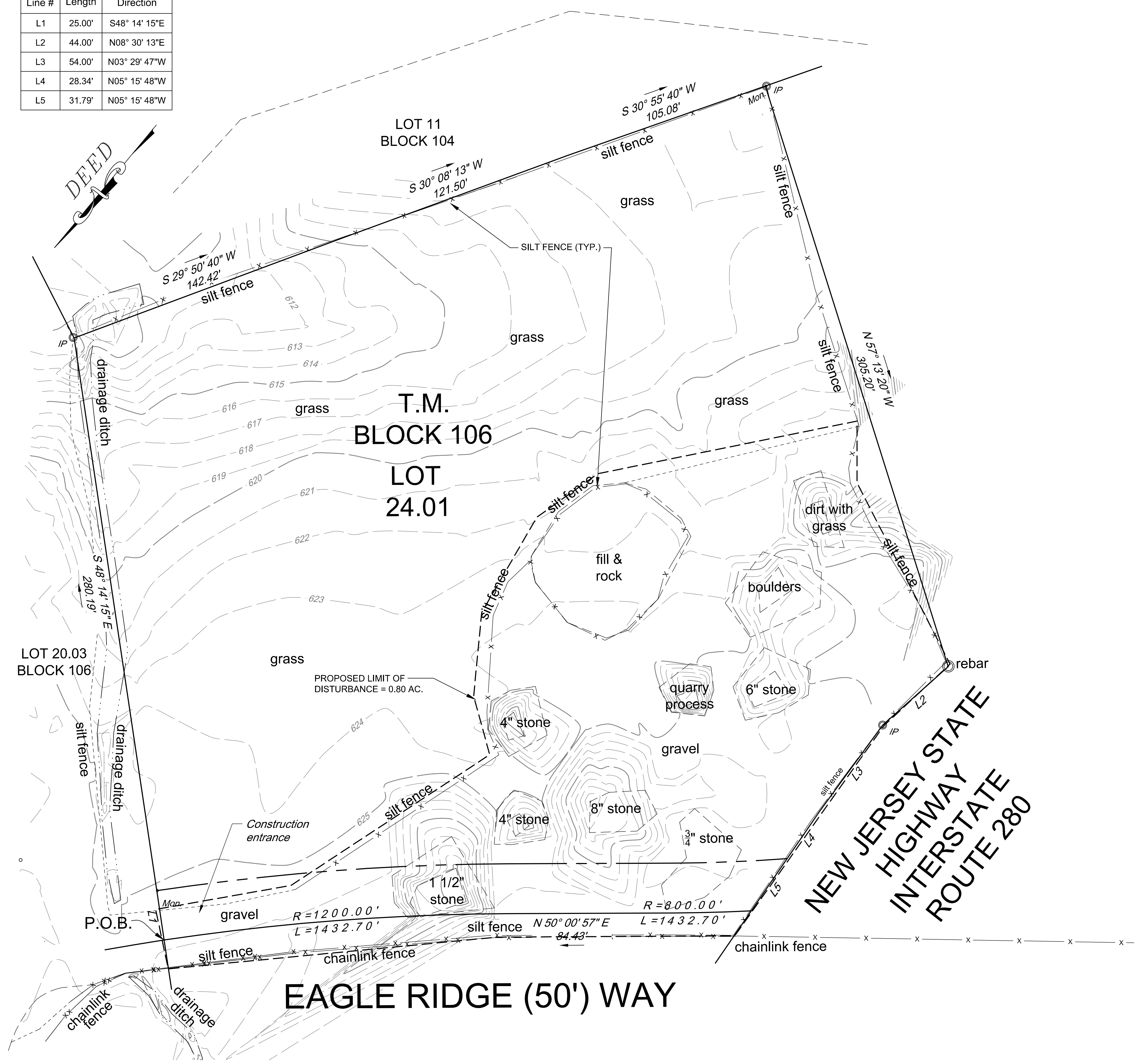


Line Table

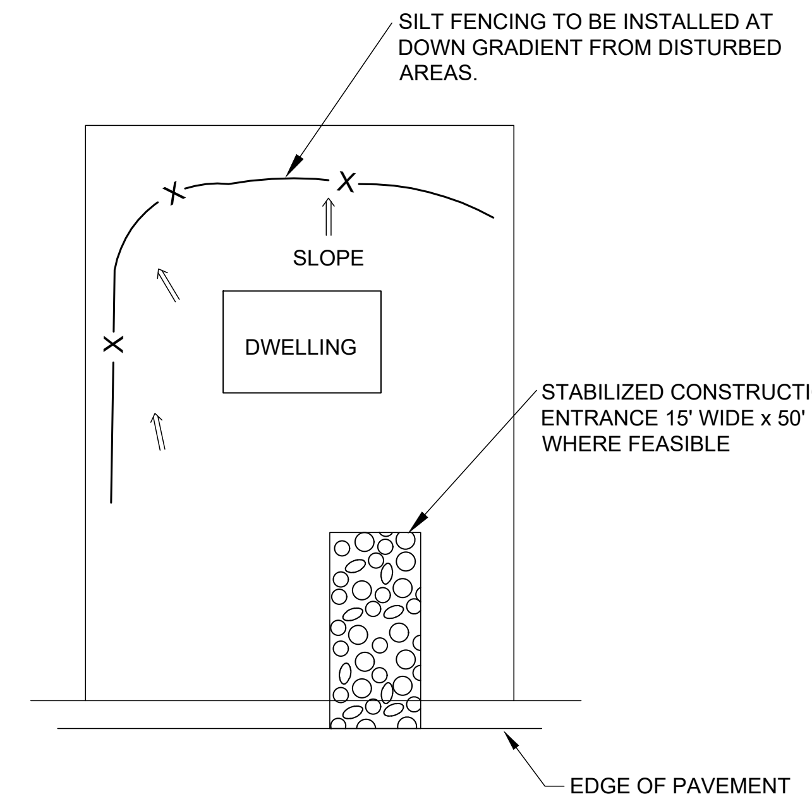
Line #	Length	Direction
L1	25.00'	S48° 14' 15"E
L2	44.00'	N08° 30' 13"E
L3	54.00'	N03° 29' 47"W
L4	28.34'	N05° 15' 48"W
L5	31.79'	N05° 15' 48"W

NOTES/REFERENCES:

1. Boundary and topographic information shown hereon based on survey by Omland & Osterkorn, Inc, dated 5/22/24. Elevations on NAVD 1988 datum.
2. The intention of this plan is to show the as-built conditions of the property as of May 2024 and the soil erosion and sediment control measures that are in place.
3. The maker of this map is not qualified to make a determination as to the absence or presence of any wetlands, contamination or other environmental condition which may affect this property. Therefore no statement is being made or implied by the fact that no evidence of contamination or other environmental condition is being shown on this map.
4. Locations of utilities are approx. contractor shall verify exact location in field with utility companies prior to commencement of construction.

CONSTRUCTION SEQUENCE

1. INSTALL SOIL EROSION AND SEDIMENT CONTROL DEVICES. THIS INSTALLATION INCLUDES PLACEMENT OF STABILIZED CONSTRUCTION ENTRANCE, PERIMETER SILT FENCE, INLET FILTER PROTECTION AT EXISTING INLETS AND OTHER PROTECTION NECESSARY PER SESC PLAN.	1 DAY - COMPLETED
2. TEMPORARY TEMPORARY STORAGE AND PROCESSING OF OFF-SITE NATURAL MATERIALS	3 MONTHS-COMPLETED
3. TEMPORARY SEED ALL AREAS TO BE LEFT EXPOSED FOR MORE THAN 30 DAYS	1 DAY - COMPLETED
4. TEMPORARY MATERIALS PROCESSED	2 MONTHS-COMPLETED
5. TEMPORARY MATERIALS USED FOR OFF-SITE CONSTRUCTION	3 MONTHS-COMPLETED
6. TEMPORARY MATERIALS USED FOR OFF-SITE EMERGENCY MUNICIPAL WORK	2 MONTHS-COMPLETED
7. ADDITIONAL SILT FENCE ADDED	2 DAYS - COMPLETED
8. CONTINUED STORAGE OF MATERIALS UNTIL NEEDED	3 MONTHS (DEPENDENT ON WEST ORANGE WORK STOPPAGE DIRECTIVE)
9. STABILIZE EXPOSED AREAS WITH SEED AND HAY	3 DAYS
10. USE STORED MATERIALS FOR SITE CONSTRUCTION	2 WEEKS
11. REMOVE SOIL EROSION CONTROL DEVICES WHEN SITE IS STABILIZED	1 DAY
TOTAL DURATION	13 MONTHS


SILT FENCING TO BE INSTALLED AT DOWN GRADIENT FROM DISTURBED AREAS.
SLOPE
DWELLING
STABILIZED CONSTRUCTION ENTRANCE 15' WIDE x 50' WHERE FEASIBLE
EDGE OF PAVEMENT

TYPICAL LOT EROSION CONTROL DETAIL

N.T.S.

SOIL EROSION AND SEDIMENT CONTROL NOTES

(To be included on the signed erosion control plan sheet)

1. All soil erosion and sediment control practices on this plan will be constructed in accordance with the **"New Jersey Standards for Soil Erosion and Sediment Control"** 7th Edition **last revised July 2017, effective December 2017.** These measures will be installed prior to any major soil disturbance or in their proper sequence and maintained until permanent protection is established.

2. Soil to be exposed or stockpiled for a period of greater than 14 days, and not under active construction, may be required to be temporarily mulched, and seeded or otherwise provided with vegetative cover as per Appendix A3. This temporary cover shall be maintained until such time whereby permanent restabilization is established.

3. *Seeding Dates:* The following seeding dates are recommended to best establish permanent vegetative cover within most locations in the HEPSCD: Spring - 3/1-5/15 and Fall – 8/15 – 10/1

4. Sediment fences are to be properly trenched and maintained until permanent vegetative cover is established

5. All storm drainage inlets shall be protected by one of the practices accepted in the Standards, and protection shall remain until permanent stabilization has been established. Storm drainage outlet points shall be protected as required before they become functional.

6. Mulch materials shall be un-rotted small grain straw applied at the rate of 70 to 90 pounds per 1,000 square feet and anchored with a mulch anchoring tool, liquid mulch binders, or netting tie down. Other suitable materials may be used if approved by the Soil Conservation District.

7. All erosion control devices shall be periodically inspected, maintained and corrected by the contractor. Any damage incurred by erosion shall be rectified immediately.

8. The Hudson-Essex-Passaic Soil Conservation District will be notified in writing at least 48 hours prior to any soil disturbing activities. Fax - (862) 333-4507 OR email – INFORMATION@HEPSCD.ORG

9. **The applicant must obtain a District issued Report-of-Compliance prior to applying for the Certificate of Occupancy or Temporary Certificate of Occupancy from the respective municipality, NJ - DCA or any other controlling agency.** Contact the District at 862-333-4505 to request a Final Inspection, giving advanced notice upon completion of the restabilization measures. A performance deposit may be posted with the District when winter weather or snow cover prohibits the proper application of seed, mulch, fertilizer or hydro-seed.

10. Paved roadways must be kept clean at all times. Do not utilize a fire or garden hose to clean roads unless the runoff is directed to a properly designed and functioning sediment basin. Water pumped out of the excavated areas contains sediments that must be removed prior to discharging to receiving bodies of water using removable pumping stations, sump pits, portable sedimentation tanks and/or silt control bags.

11. All surfaces having lawn or landscaping as final cover are to be provided topsoil prior to re-seeding, sodding or planting. A depth of 5.0 inches, firmed in place, is **required**, as per the Standards for Topsoiling and Land Grading, effective December 2017.

12. All plan revisions must be submitted to the District for proper review and approval.

13. A crushed stone wheel cleaning tracking-pad is to be installed at all site exits using 2 ½ -1" crushed angular stone (ASTM 2 or 3) to a minimum length of 50 feet and minimum depth of 6". All driveways must be provided with crushed stone until paving is complete.

14. Steep slopes incurring disturbance may require additional stabilization measures. These "special" measures shall be designed by the applicant's engineer and be approved by the Soil Conservation District.

15. **The Hudson-Essex-Passaic Soil Conservation District shall be notified, in writing, for the sale of any portion of the project or for the sale of individual lots. New owners' information shall be provided. Additional measures deemed necessary by District officials shall be implemented as conditions warrant.**

http://hepsoilnj.org
HEPSCD251SESCNOTES_7THEDREV2017.DOC

STANDARD FOR DUST CONTROL (Per Standards... Dust Control 16-1, May 2012)

DEFINITION-The control of dust on construction sites and roads.

PURPOSE- To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage and health hazards, and improve traffic safety.

CONDITION WHERE PRACTICE APPLIES- This practice is applicable to areas subject to dust blowing and movement where on- and off-site damage is likely without treatment. Consult with local municipal ordinances on any restrictions.

WATER QUALITY ENHANCEMENT-Sediments deposited as "dust" are often fine colloidal material which is extremely difficult to remove from water once it becomes suspended. Use of this standard will help to control the generation of dust from construction sites and subsequent blowing and deposition into local surface water resources.

PLANNING CRITERIA- The following methods should be considered for controlling dust:

Mulches-See Standards for Stabilization with mulches Only (p. 5-1)

Vegetative Cover-See Standards for Temporary Vegetative Cover (p. 7-1), Permanent Vegetative Cover for Soil Stabilization (p. 4-1) and Permanent Stabilization with Sod (p. 6-1)

Spray-on Adhesives-On mineral soils (not effective on muck soils). Keep traffic off these areas.

Table 16-1: Dust Control Materials:

	Water Dilution	Type of Nozzle	Gal./Acre
Anionic asphalt emulsion	7:1	Coarse Spray	1,200
Latex Emulsion	12.5:1	Fine Spray	235
Resin in Water	4:1	Fine Spray	300
Polyacrylamide (PAM) - spray on Polyacrylamide (PAM) - dry spray	Apply according to manufacturer's instructions. May also be used as an additive to sediment basins to flocculate and precipitate suspended colloids. See Sediment Basin standard (pg 26-1).		
Acidulated Soy Bean Soap Stick	None	Coarse Spray	1,200

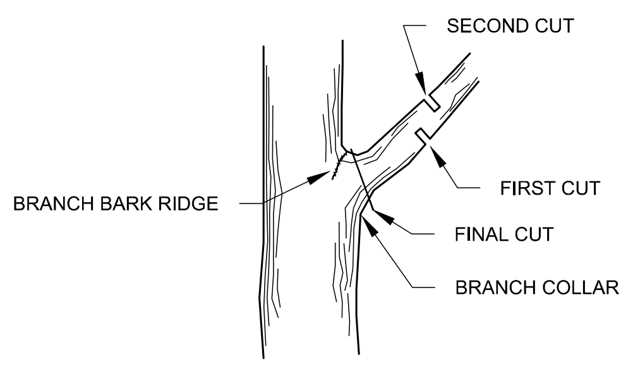
Tillage: To roughen surface and bring clods to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, and spring-toothed harrows are examples of equipment which may produce the desired effect.

Sprinkling: Site is sprinkled until the surface is wet.

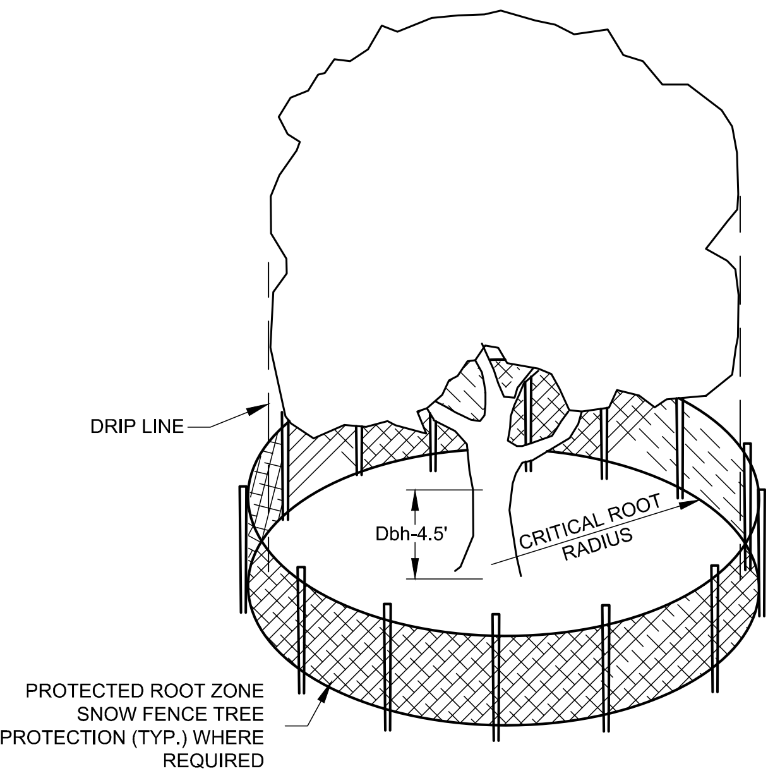
Barriers: Solid board fences, snow fences, burlap fences, crate walls, bales of hay, and similar material can be used to control air currents and soil blowing.

Calcium Chloride: Shall be in the form of loose, dry granules of flakes fine enough to feed through commonly used spreaders at a rate that will keep surface moist but not cause pollution or plant damage. If used on steeper slopes, then use other practices to prevent washing into streams or accumulation around plants.

Stone: Cover surface with crushed stone or coarse gravel.



REMOVAL OF TREE LIMB

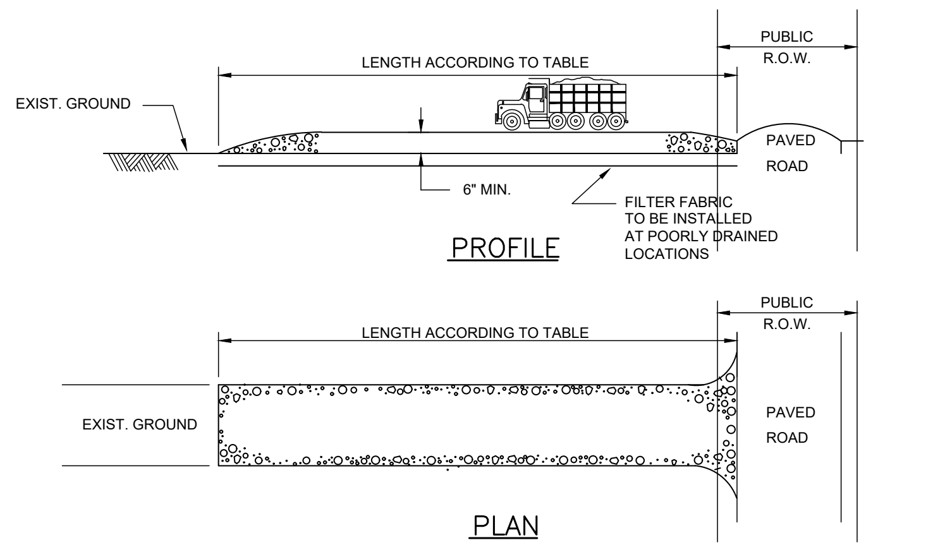

DRIP LINE
Dbh-4.5'
CRITICAL ROOT RADIUS
PROTECTED ROOT ZONE SNOW FENCE TREE PROTECTION (TYP.) WHERE REQUIRED

ESTIMATE PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR):

1. MEASURE THE Dbh (DIAMETER OF TREE AT BREAST HEIGHT, 4.5' ABOVE GROUND ON UPHILL SIDE) IN INCHES.
2. MULTIPLY MEASURED Dbh BY 1.5 OR 1.0. EXPRESS RESULT IN FEET.
   - CRR FOR UNHEALTHY / SENSITIVE SPECIES: Dbh X 1.5
   - CRR FOR YOUNGER HEALTHY TREES: Dbh X 1.0

TREE PROTECTION DETAIL

REFER TO STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY: 9.1


LENGTH ACCORDING TO TABLE
PUBLIC R.O.W.
EXIST. GROUND
6" MIN.
FILTER FABRIC TO BE INSTALLED AT POORLY DRAINED LOCATIONS
PAVED ROAD

PROFILE

PLAN

NOTES

STONE SIZE 1 1/2" - 2 1/2" CRUSHED STONE

WIDTH NOT LESS THAN FULL WIDTH AT POINTS OF EGRESS AND INGRESS.

WASHING: WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC R.O.W.. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.

MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC R.O.W.. 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 TRAPPED ONTO PUBLIC R.O.W. MUST BE REMOVED IMMEDIATELY.

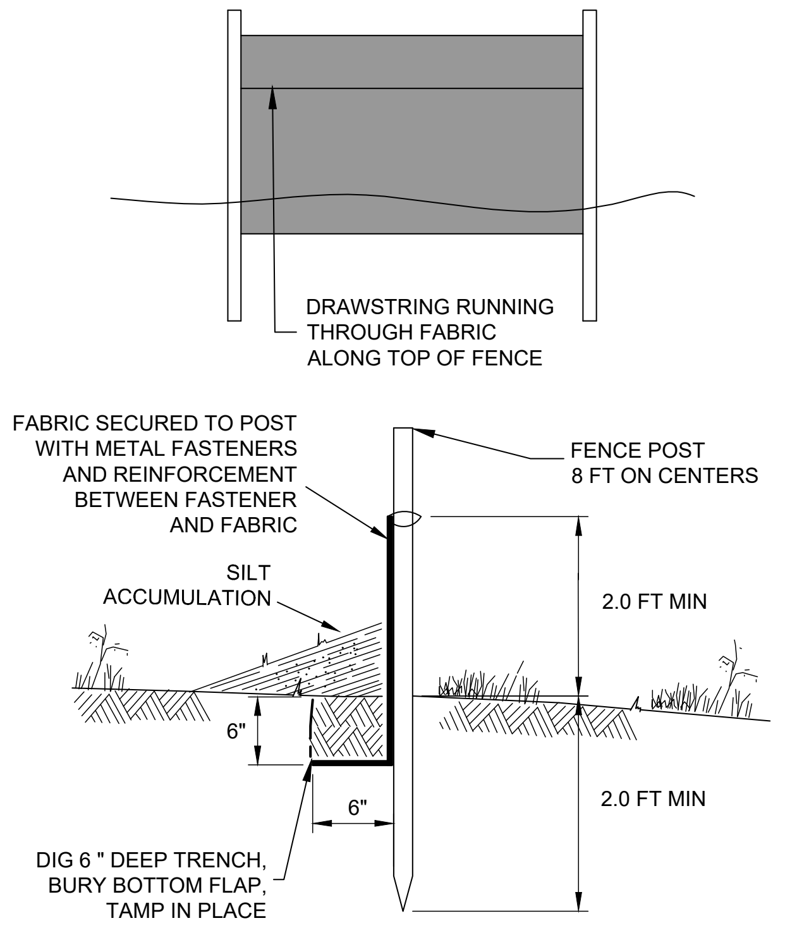
WHEN THE CONSTRUCTION ACCESS EXITS ONTO A MAJOR ROADWAY, A PAVED TRANSITION AREA MAY BE INSTALLED BETWEEN THE MAJOR ROADWAY AND THE STONED ENTRANCE TO PREVENT LOOSE STONES FROM BEING TRANSPORTED OUT ONTO THE ROADWAY BY HEAVY EQUIPMENT ENTERING OR LEAVING THE SITE.

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 ft.	100ft.
2 TO 5%	100ft.	200ft.
>5%	ENTIRE SURFACE STABILIZED WITH HMA BASE COURSE MIX I-2 [1]	

1. AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY

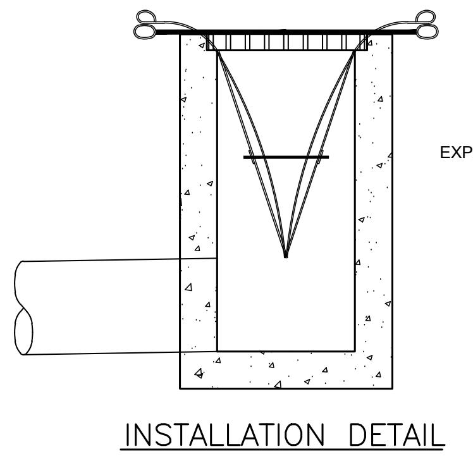
STABILIZED CONSTRUCTION ENTRANCE

N.T.S

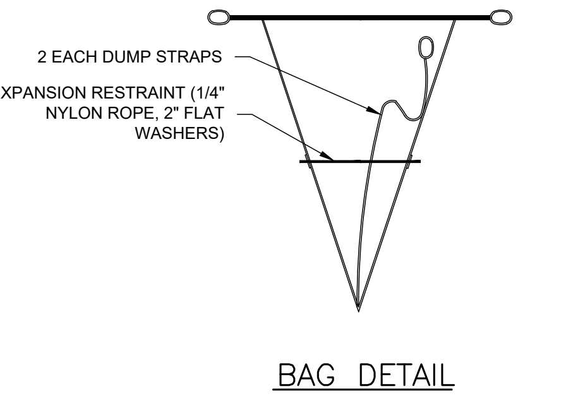

DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE
FABRIC SECURED TO POST WITH METAL FASTENERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC
FENCE POST 8 FT ON CENTERS
SILT ACCUMULATION
2.0 FT MIN
6"
6"
2.0 FT MIN
DIG 6 " DEEP TRENCH, BURY BOTTOM FLAP, TAMP IN PLACE

SILT FENCE DETAIL

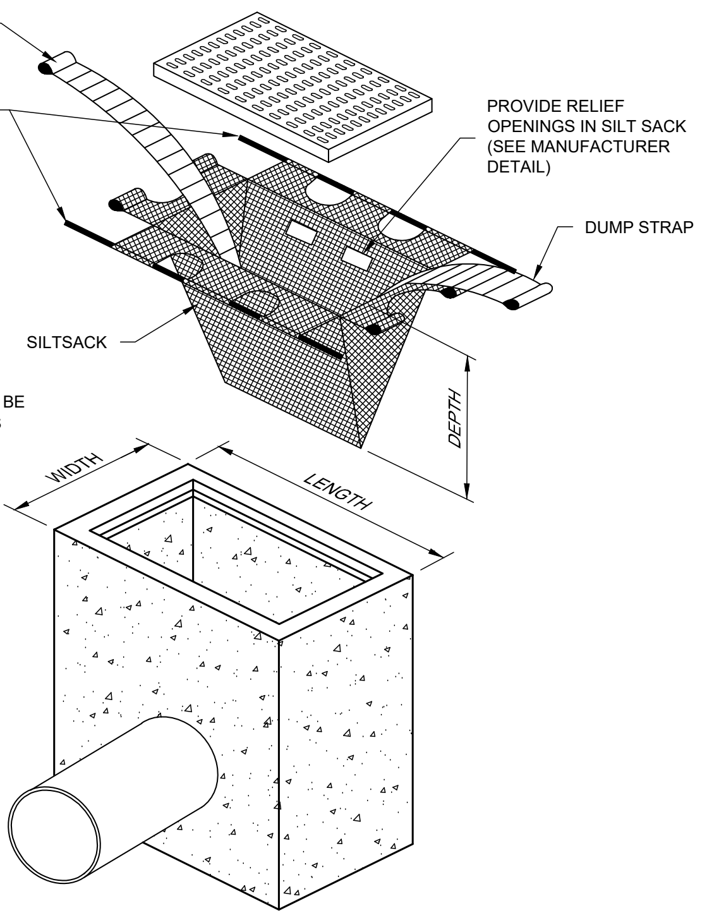
N.T.S.



INSTALLATION DETAIL



BAG DETAIL

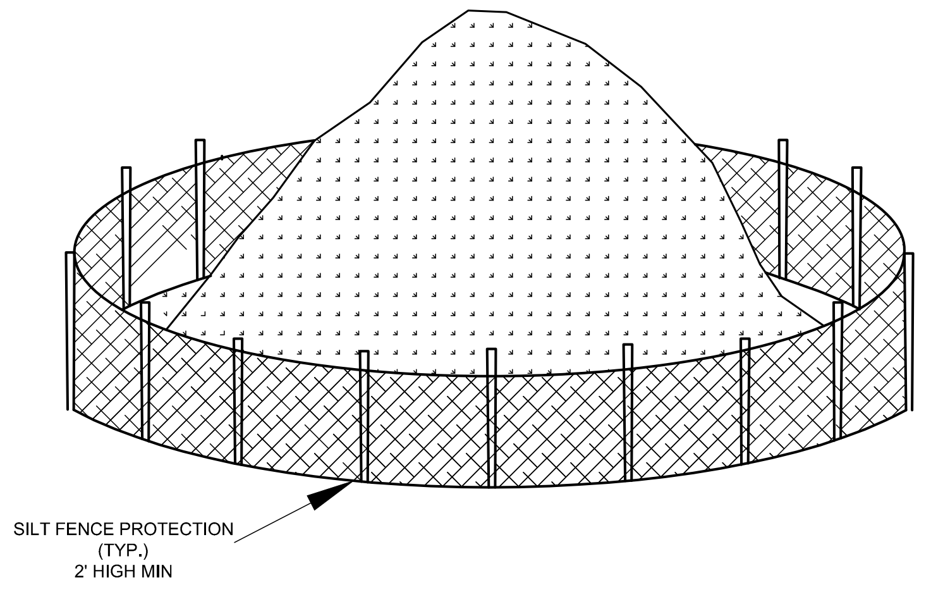

DUMP STRAP
1" REBAR FOR BAG REMOVAL FROM INLET
PROVIDE RELIEF OPENINGS IN SILT SACK (SEE MANUFACTURER DETAIL)
DUMP STRAP
SILTSACK
DEPTH
WIDTH
LENGTH

SILTSACK ® AS MANUFACTURED BY ACF. INSTALLATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

NOTE: THE DEVICE SHALL CAPTURE OR FILTER THE RUNOFF FROM THE ONE YEAR-24 HOUR STORM AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE SEEPAGE PIT AND/OR STORM SEWER SYSTEM.

INLET SEDIMENT CONTROL DEVICE

NOT TO SCALE



TOPSOIL STOCK PILE DETAIL

REFER TO STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY - 8-1

SCALE: 1"=20'
0 20 40 80 ft.

THIS PROJECT IS EXEMPT FROM SOIL DE-COMPACTION REMEDIATION AND TESTING AS IT IS LOCATED IN AN URBAN REDEVELOPMENT AREA

	REVISION	DATE	CHKD
6			
5			
4			
3			
2			
1			

PROJ.: 230310
DATE: 05/31/24
CHKD: KO

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NJ Certificate of Authorization
No. 24GA28293300

Kiersten Osterkorn PEPLSPP

KIERSTEN OSTERKORN, N.J. Professional Engineer & Professional Land Surveyor,
Lic. 24GB42581

SOIL EROSION & SEDIMENT CONTROL PLAN
42 EAGLE RIDGE WAY
TAX MAP BLOCK 106, LOT 24.01
TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY

SHEET No. 1 OF 1