

TO BE USED WHERE TOPSOIL PRESERVATION IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DROUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL

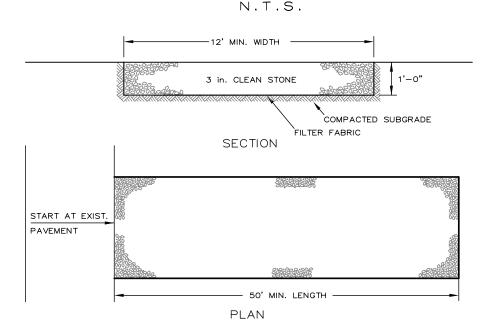
TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NON-VEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED DURATION OF USE. SEE EROSION CONTROL PLAN FOR LOCATIONS.

INSTALLATION NOTES

2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.

- 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION

TEMPORARY SOIL STOCKPILING



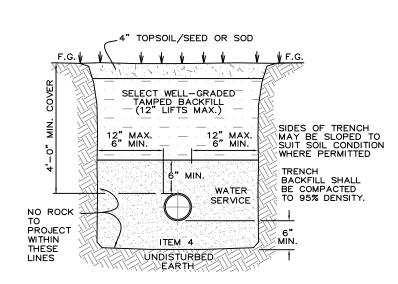
#### TO BE PROVIDED AT ALL POINTS OF EQUIPMENT INGRESS OR EGRESS ONTO PUBLIC RIGHTS-OF-WAY. SEE EROSION CONTROL PLAN FOR LOCATIONS.

STONE SIZE - USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

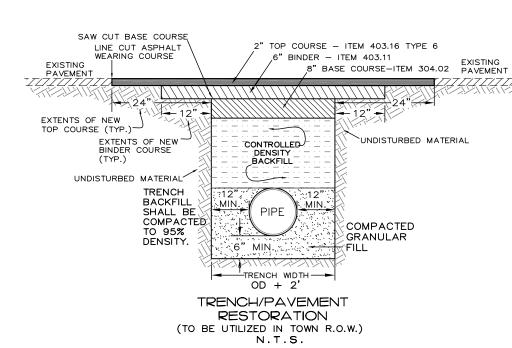
INSTALLATION NOTES

- 2. LENGTH AS REQUIRED, BUT NOT LESS THAN 30 FEET
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES. 4. WDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR.
- FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO 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 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 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 RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
- 8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT 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

ANTI-TRACK PAD N.T.S.

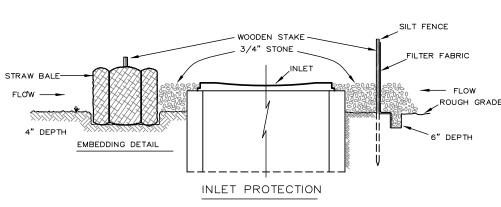


WATER SERVICE BEDDING N.T.S.



Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State

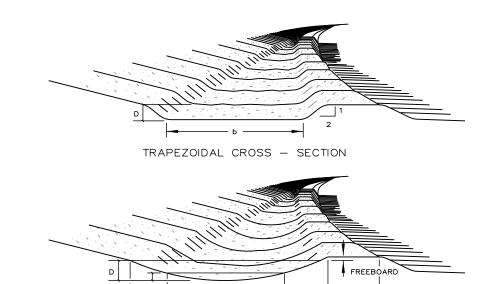
Education Law.



# INLET PROTECTION IS RECOMMENDED FOR SITES UNDERGOING ACTIVE CONSTRUCTION, TO PROTECT EXISTING OR RECENTLY INSTALLED CULVERTS, STORM DRAINS, OR OTHER WATER MANAGEMENT STRUCTURES. THIS STANDARD CAN NOT BE USED WHERE INLETS ARE ON SLOPES\_> 5%. FILTER INLETS ARE INTENDED TO REMOVE COARSE SEDIMENTS FROM STORM RUNOFF. THEY ARE NOT A SUBSTITUTE FOR MORE EFFECTIVE SEDIMENT REMOVAL MEASURES, SUCH AS SEDIMENT BASINS OR SILT TRAPS, BUT THEY MAY BE APPLIED IN CONJUNCTION WITH THESE MEASURES. SEVERAL TYPES OF FILTER INLETS ARE AVAILABLE AND HAVE DIFFERENT APPLICATIONS BASED ON SITE CONDITIONS AND THE TYPE OF INLET. RUNOFF ORIGINATING FROM LARGE DISTURBED WATERSHEDS ( > 1 ACRE) SHOULD BE DIRECTED TO A TEMPORARY SEDIMENT TRAP BEFORE ENTERING THE FILTER INLET. FILTER INLETS CANNOT PROTECT AGAINST SEDIMENTATION DURING EXTREME STORM EVENTS OR IF THE WATERSHED IS NOT PROPERLY STABILIZED DURING AND AFTER

SEE EROSION AND SEDIMENT CONTROL PLAN FOR LOCATIONS. INSTALLATION NOTES

- 1. EXCAVATE A 6 INCH x 6 INCH TRENCH, OFFSET APPROXIMATELY 2 FEET FROM THE INLET PERIMETER. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
- 3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
- 4. LAY THE TOE—IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH. 5. JOIN SECTIONS AS SHOWN ABOVE. SUPPLEMENT WITH GRAVEL, PILED AGAINST THE FENCE.
- . PLACE BALES OF STRAW WITH ENDS TIGHTLY ABUTTING OTHER BALES TO SURROUND THE INLET. WHERE SLOPE AND SPACE PERMIT, ESTABLISH THE LINE OF BALES 2 TO 10 FEET AWAY FROM THE INLET. ANCHOR BALES IN PLACE BY DRIVING REBARS OR 2" x 2" STAKES THROUGH THE BALES. SUPPLEMENT WITH GRAVEL, PILED AGAINST THE
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- 4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED. 5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. INLET PROTECTION



### PARABOLIC CROSS - SECTION TO BE INSTALLED ABOVE DISTURBED AREAS (SUCH AS CUT OR FILL SLOPES ON STEEPLY SLOPING LAND, CRITICAL SEDIMENT SOURCE AREAS WITHIN CONSTRUCTION SITES, BUILDING, RESIDENCE, AND STREET LOCATIONS, AND ACTIVE GULLIES OR OTHER ERODIBLE AREAS), OF ABOVE LOW-LYING AREAS SUSCEPTIBLE TO DAMAGE FROM THE ALTERED RUNOFF RESULTING

- INSTALLATION NOTES
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- 3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY.
- 4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- 5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
- A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY DIVERSIONS OR OTHERS MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.
- B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER SEC., THE WATERWAY SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY JUTE MESH OR MULCHING, AND TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED. DIVERSION SWALE

DRIVEWAY/PARKING AREA PAVEMENT

N.T.S.

SLOPE 1/4" PFR FT

CONCRETE CURE

2" ASPHALT CONC. ITEM 403.17 TYPE 6

\* 10 FT. MIN.

**SEPARATION** 

PLAN

Sewers shall be laid at least 10 feet (3.0 m) horizontally

from any existing or proposed water main. The distance

reviewing agency may allow deviation on a case—by—case

deviation may allow installation of the sewer closer to a

water main, provided that the water main is in a separate

main is at least 18 inches (46 cm) above the top of the

DRAIN/SEWER/WATER SEPARATION

N.T.S.

shall be measured edge to edge. In cases where it is not practical to maintain a ten foot separation, the appropriate

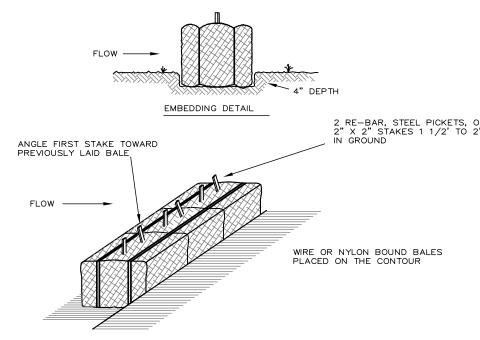
basis, if supported by data from the design engineer. Such

trench or on an undisturbed earth shelf located on one side

of the sewer and at an elevation so the bottom of the water

" ASPHALT CONC. BINDER COURSE ITEM 403.11 -

4" TOPSOIL

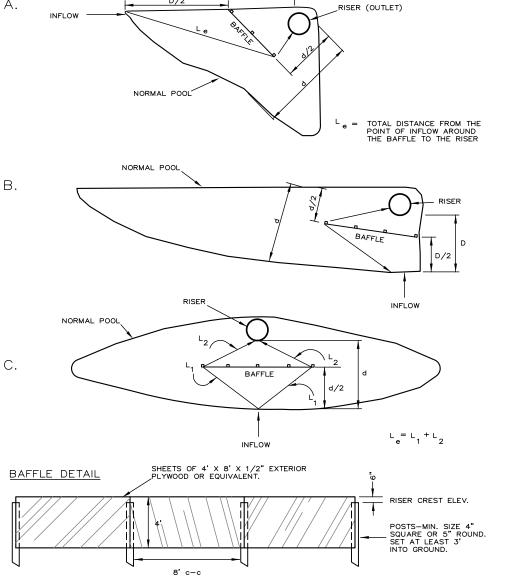


# TO BE USED TO CONTROL SEDIMENT. THEY CAN BE EFFECTIVE IN PROTECTING SENSITIVE DOWNSLOPE AREAS SUCH AS STREAMS, WETLANDS, AND ADJACENT PROPERTIES THAT WOULD BE DAMAGED BY SEDIMENTS FROM UPLAND SITE DISTURBANCES. STRAWBALE SEDIMENT BARRIERS SHOULD BE USED IN CONJUNCTION WITH EROSION CONTROL MEASURES UNLESS THE SITE OR DISTURBED AREA IS VERY SMALL AND/OR NEARLY LEVEL.

INSTALLATION NOTES 1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE

SEE EROSION CONTROL PLAN FOR LOCATIONS.

- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
   EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
   BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BAR DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
   BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- HAYBALE SEDIMENT BARRIERS
- EXAMPLES: PLAN VIEWS



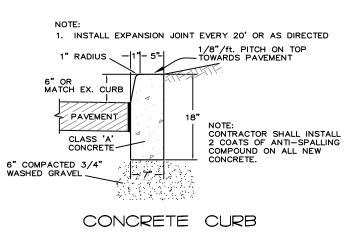
TO BE USED WHERE PHYSICAL SITE CONDITIONS PRECLUDE SOIL STABILIZATION THROUGH THE INSTALLATION OF EROSION CONTROL MEASURES SUCH AS CRITICAL AREA SEEDING, MULCHING, AND NETTING. MOST SEDIMENT BASIN DESIGNS SETTLE OUT PARTICLES LARGER THAN A No. 200 SIEVE, AND ARE ONLY PARTIALLY EFFECTIVE WHERE SILTY SOILS PREDOMINATE. SEDIMENT BASINS ALSO MAY BE USED IN CONJUNCTION WITH EROSION CONTROL MEASURES TO RETAIN SEDIMENT ON—SITE. ON SITES WITH FINE—TEXTURED SOILS, EROSION CONTROL STANDARDS SUCH AS CRITICAL AREA SEEDING, MULCHING, AND NETTING SHOULD BE THE PRIMARY METHODS OF EROSION AND SEDIMENT CONTROL, WITH SEDIMENT BASINS RETAINING SEDIMENT THAT WAS NOT HELD IN PLACE BY THESE PRIMARY CONTROL PRACTICES, BUT WAS CAPTURED BY SECONDARY SEDIMENT CONTROL PRACTICES, BUT WAS CAPTURED BY SECONDARY SEDIMENT CONTROL PRACTICES SUCH AS VEGETATED CHANNELS AND TEMPORARY SWALES. SEE EROSION AND SEDIMENT CONTROL PLAN FOR LOCATIONS.

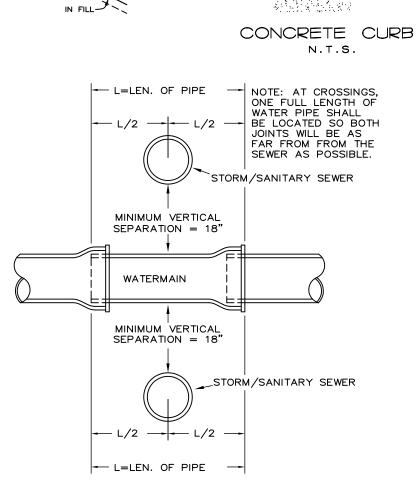
SEDIMENT BASIN DESIGN N.T.S.

CUT IN 1 ROCK 1

SLOPE 3/8" PER FT.

ELEVATION

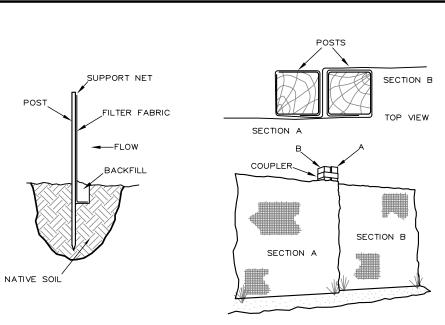




DRAIN/SEWER

WATER MAIN CROSSING

N.T.S.



TO BE INSTALLED IMMEDIATELY BELOW DISTURBED AREAS THAT ARE SUSCEPTIBLE TO SHEET OR RILL EROSION; AND WHERE SENSITIVE WATER BODIES, SUCH AS DRINKING WATER SUPPLIES OR WETLANDS, ARE LOCATED DOWNSLOPE OF AN AREA TO BE DISTURBED. SEE EROSION CONTROL PLAN FOR LOCATIONS.

JOINING SECTIONS OF FENCING

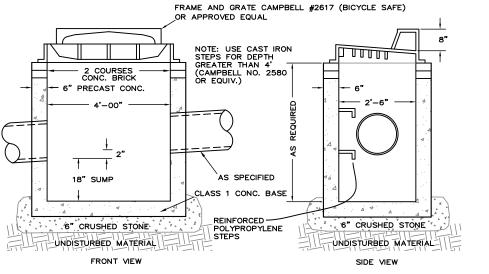
#### INSTALLATION NOTES

TOE-IN METHOD

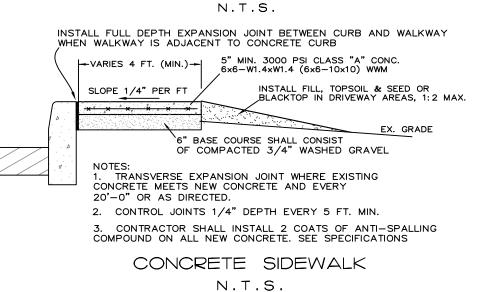
1. EXCAVATE A 4 INCH X 4 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE. 2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW). 3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.

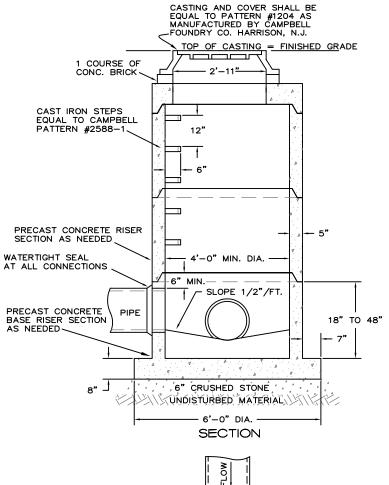
4. LAY THE TOE—IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH. 5. JOIN SECTIONS AS SHOWN ABOVE.

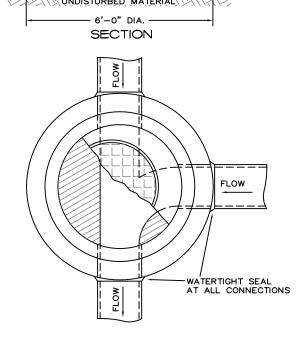
> SILT FENCE N.T.S.



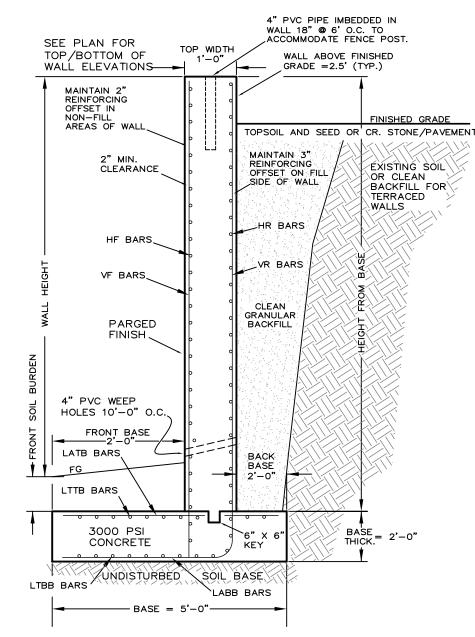
CATCH BASIN

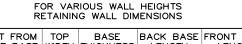


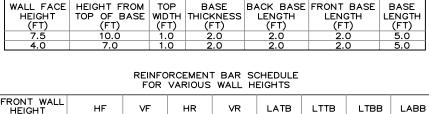




PLAN SEWER/DRAIN MANHOLE N.T.S.

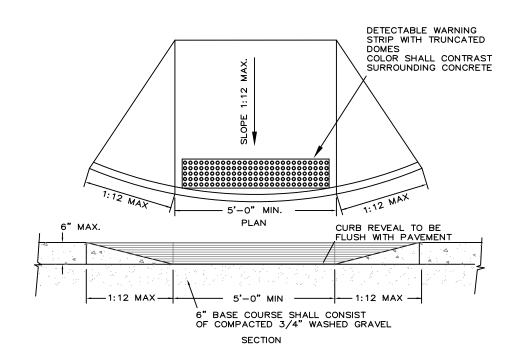




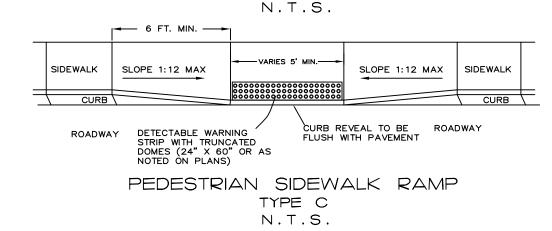


1. ALTERNATE VR BARS MAY BE CUT AT 1/2 HEIGHT OF WALL
2. ALL REINFORCING STEEL TO BE COMMON GRADE 40. RETAINING WALL STRUCTURAL DETAILS N.T.S.

#6-12" #4-8" #4-8" #7-6" #4-10" #6-12" #6-12" #4-10" #6-12" #4-8" #4-8" #7-6" #4-10" #6-12" #6-12" #4-10"



### SIDEWALK RAMP



CLEAN BACKFILL COMPACTED IN 12" LIFTS FINISHED GRADE CLEAN FILL `UNDISTURBED EARTH COMPACTED IN 12" LIFTS ■ DIA. → VARIES —— O.D. + 2' ——**▶** 

DRAIN PIPE BEDDING N.T.S.

# CONSTRUCTION NOTES: 1. THE CONTRACTOR SHALL LOCATE AND VERIFY IN THE FIELD ALL UTILITIES - GAS. WATER, ELECTRICAL BEFORE THE START

OF CONSTRUCTION. CONTRACTOR SHALL CALL CODE 753 (FORMERLY CODE 53)

2. EROSION CONTROL MEASURES, INCLUDING SILT FENCE, SHALL BE REQUIRED AS DIRECTED BY THE TOWN. 3. ALL PROPERTY DISTURBED IN THE R.O.W. OR ON PRIVATE LANDS, SHALL BE RESTORED TO NEW CONDITIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICATIONS AND PERMITS REQUIRED FOR CONSTRUCTION. 5. UNDERGROUND GAS AND ELECTRIC SHALL BE AS REQUIRED BY THE TOWN AND CON EDISON.

EROSION AND SEDIMENT CONTROL NOTES: I. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION

2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PROCEDURES SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWN OF CORTLANDT.

3. PRIOR TO ANY EXCAVATION, SILT FENCE SHALL BE INSTALLED AT THE APPROPRIATE LOCATIONS NOTED ON EROSION CONTROL PLAN. SILT FENCING SHALL BE INSTALLED AS DIRECTED BY THE OWNER'S REPRESENTATIVE IN THE FIELD AND INSTALLED AS PER THE INSTRUCTIONS OF THE MANUFACTURER. ADDITIONAL SILT FENCE MAY BE PLACED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. SILT FENCING SHALL BE MAINTAINED IN OPERABLE CONDITION AND SHALL NOT BE REMOVED UNTIL DISTURBED AREAS ARE THOROUGHLY STABILIZED.

4. ALL FINISHED SLOPES AND ALL ROUGH CUT SLOPES TO REMAIN OPEN FOR EXTENDED PERIODS IMMEDIATELY TOPSOIL, SEED WITH A MIXTURE OF PERENNIAL RYE GRASS, ANNUAL RYE GRASS AND WINTER RYE AND MULCH WITH 6" OF HAY.

5. ALL SLOPES CONSTRUCTED WITH FILL MATERIAL AND ALL SLOPES WITH GRADE 3:1 OR STEEPER SHALL BE TOPSOILED, SEEDED, MULCHED AND STABILIZED WITH STAKED JUTE NETTING, UNLESS OTHERWISE NOTED.

6. ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED. IN ADDITION TO ALL SPECIFIED AND LOCATED EROSION CONTROL DEVICES, THE CONTRACTOR SHALL TAKE ALL STEPS PRUDENT AND NECESSARY TO STABILIZE THE SITE AT ALL TIMES.

7. DO NOT STOCKPILE MATERIALS ON STEEP SLOPES, IN DRAINAGE SWALES OR IN WETLAND AREAS. SURROUND ALL STOCKPILE AREAS WITH SILT SCREEN AND SEED THEM WITH THE ANNUAL RYE GRASS.

8. ALL CATCH BASINS ARE TO BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY

9. HAYBALES SHALL BE USED AT THE TOPS AND TOES OF SLOPES, AS NECESSARY, TO COLLECT SILT AND DIVERT FLOWS. SILT SCREENS WILL BE USED IN AREAS OF UNCONCENTRATED FLOWS TO COLLECT SILT. HAYBALES AND SILT SCREEN ON PLANS MAY BE AUGMENTED IN THE FIELD

10. UTILITY LINE EXCAVATED MATERIAL SHALL BE TEMPORARILY STOCKPILED ON HIGH SIDE OF EXCAVATION SO RUNOFF IS DIRECTED AWAY FROM TRENCH, AFTER BACK-FILLING, AREA IS TO BE TOPSOILED, SEEDED, AND

BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. 12. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY

11. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL

REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. SEDIMENT SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ADDITIONAL EROSION OR POLLUTION.

13. INSTALL GRAVEL BED AT CONSTRUCTION ENTRANCE TO SERVE AS ANTI-TRACKING PAD. GRAVEL BED TO BE 2" DIAMETER CRUSHED STONE 6" DEEP, OVER GEOTEXTILE SUPPORT FABRIC. ANTI-TRACKING PADS TO MEASURE 30' (MIN.) LENGTH BY THE ROADWAY WIDTH.

14. BLASTING AREAS - ROCK, RIPPING WILL BE USED WHEREVER POSSIBLE. BLASTING WILL OCCUR IN ACCORDANCE WITH REGULATIONS AND STANDARDS PRESCRIBED BY THE TOWN OF CORTLANDT.

RALPH G. MASTROMONACO, P.E., P.C. Consulting Engineers 13 Dove Court, Croton-on-Hudson, New York 10520 (914) 271-4762 (914) 271-2820 Fax

DETAILS/NOTES VILLAGE SQUARE RESIDENTIAL/COMMERCIAL CARBONE BROTHERS 3095 LLC VILLAGE OF BUCHANAN WESTCHESTER COUNTY, NY NOVEMBER 23, 2022 SHEET 5 OF 5 SHEETS