

Washington, DC



### Gensler

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#### W WILES MENSCH CORPORATION

11860 Sunrise Valley Dr. V: 703.391-7600 Suite 200 F: 703.264-0595 Reston , VA. 20191 www. wilesmensch. com

|Seal/Signature

Date

02/21/2012

Project Name
SITE 75A

Project Number 09.7075.000

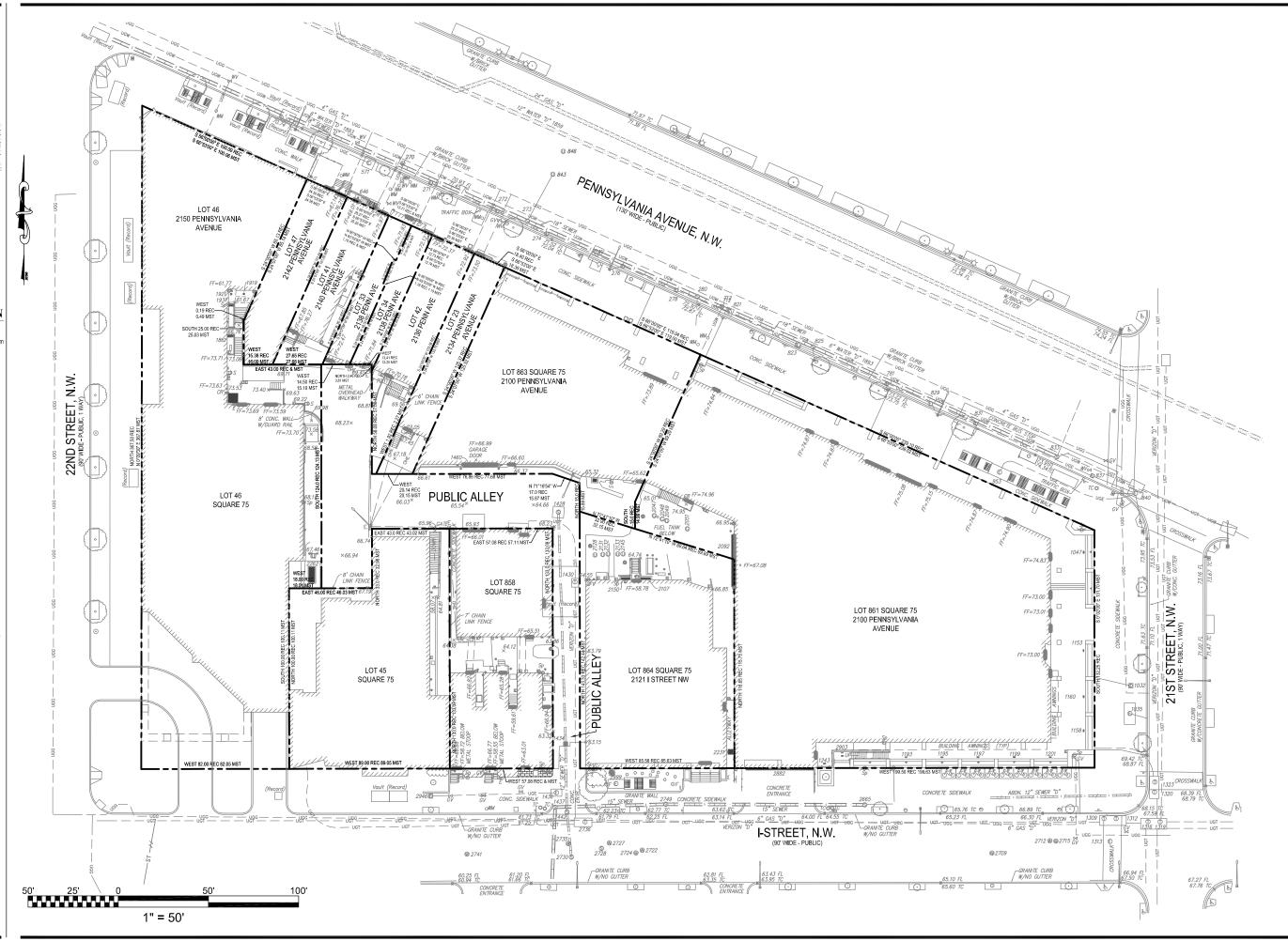
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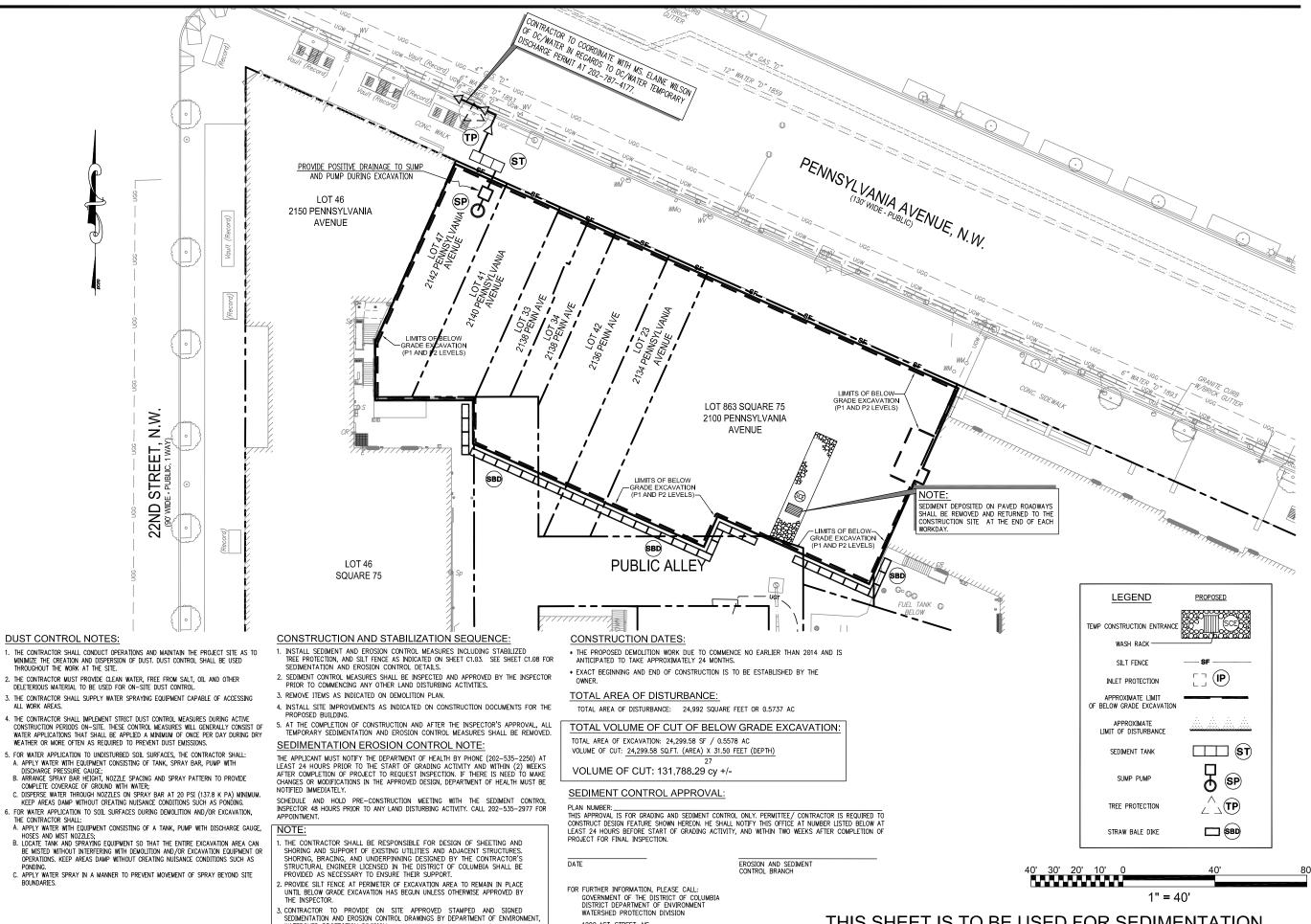
EXISTING CONDITIONS PLAN

Scale

**C-1** 

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PROVIDE CHAIN LINK FENCE AT PERIMETER OF SITE.

**SITE** 75A

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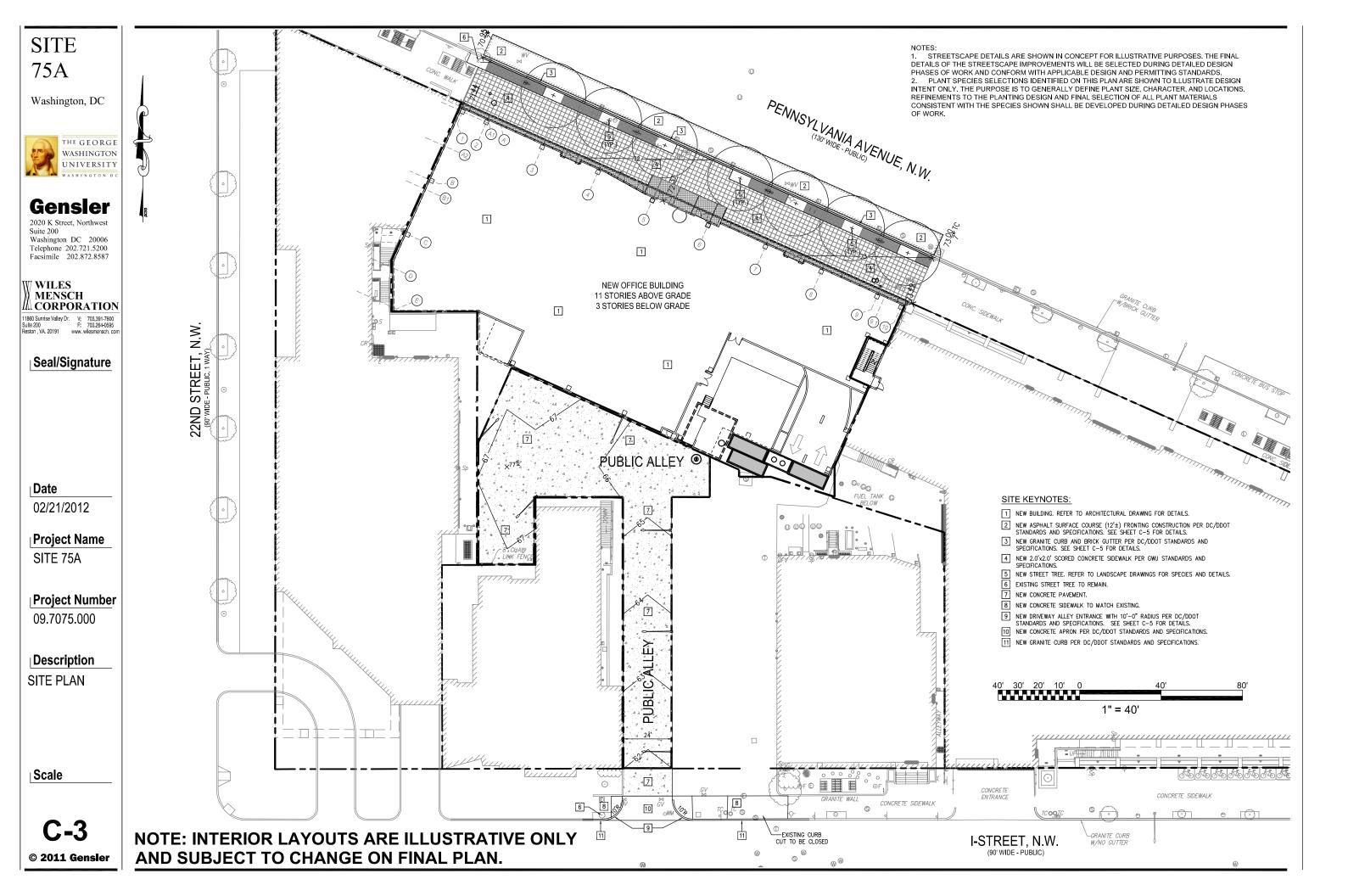
**SEDIMENTATION** AND EROSION **CONTROL PLAN** 

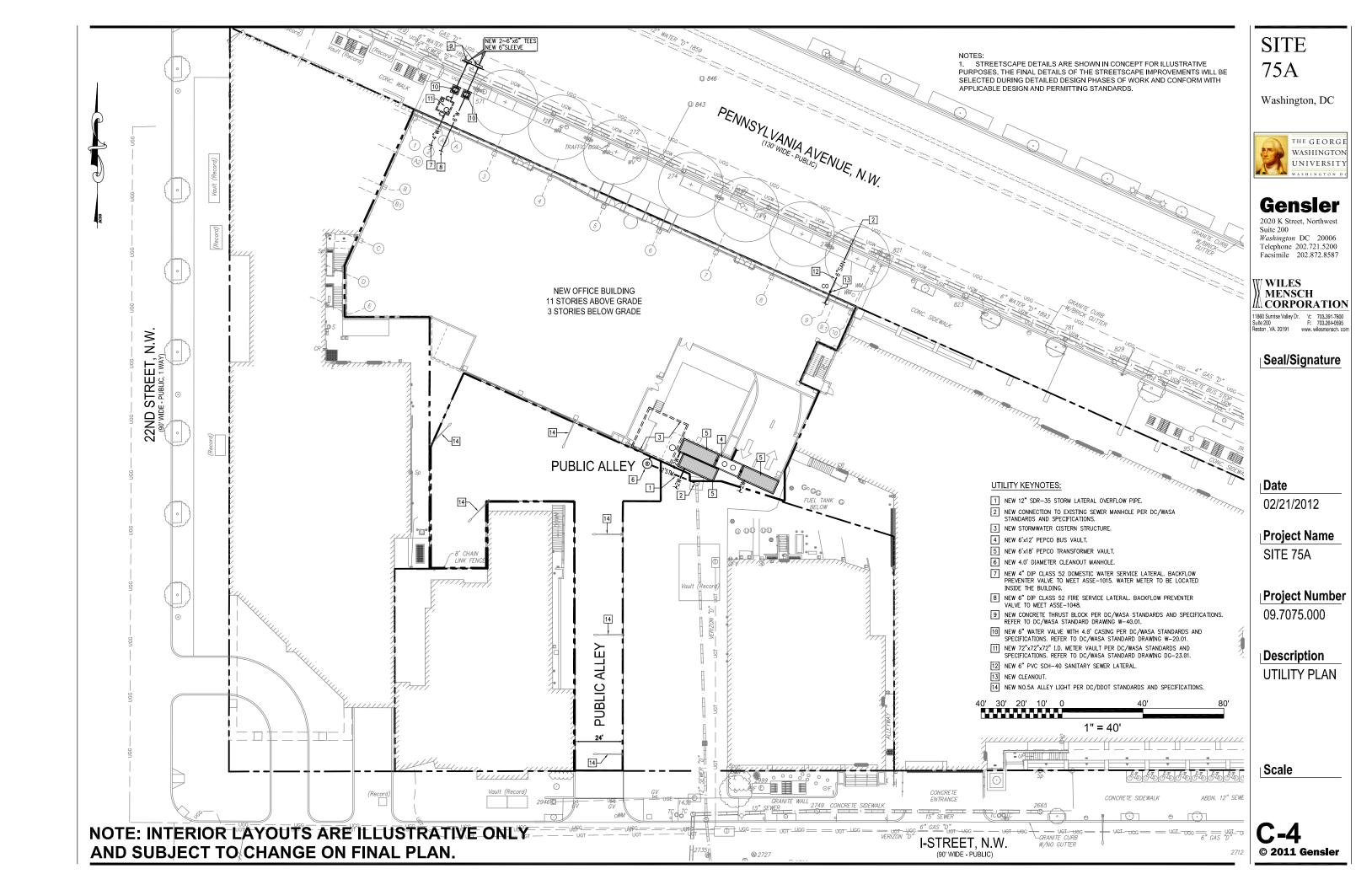
Scale

THIS SHEET IS TO BE USED FOR SEDIMENTATION

AND EROSION CONTROL PURPOSES ONLY!!

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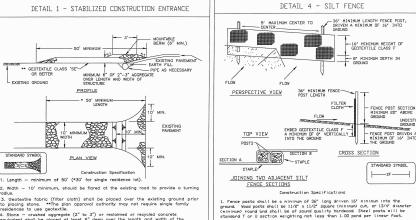
∣Project Number 09.7075.000

#### Description

SEDIMENTATION AND EROSION CONTROL DETAILS

Scale

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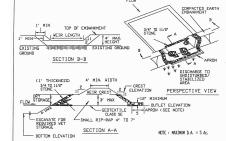


entrance.

5. Surface Water — all surface water flowing to or diverted toward corentrances shall be pized through the entrances, maintaining positive dra

Location — A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance





Construction Specifications

. Area under embankment shall be cleared, grubbed and stripped of my vegetation and root mat. The pool area shall be cleared.

2. The fill naterial for the embankent shall be free of roots other woody vegetation as well as over-sized stones, rocks, org naterial or other objectionable naterial. The embantes hall compacted by traversing with equipment while it is being constructed.

4. The stone used in the outlet shall be shall riprep 4' to 7' in size with a!' thick layer of 3/4' to 11/2' washed aggregate placed recessory to prevent clogping. General Feb. 28 is substituted for the stone facing by placing it on the inside face of the stone outlet.

#### U.S. DEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL RESOURCE CONSERVATION SERVICE D-14-11 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH U.S. BEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL RESOURCE CONSERVATION SERVICE $\frac{1}{2}-7-9$ DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH STONE DUTLET SEDIMENT TRAP - ST II

The structure shall be inspected periodically and after each rain and repairs made as needed.

7. Construction of trops shall be carried out in such a manner that seliment pollution is absted. Once constructed, the top and coulded face of the embohament shall be stabilized with seed and coordinate with forced Stabilization Structure criteria. The remainder of the interior slopes shauld be stabilized (one time) with seed and mulch upon trop completion and manifored and maintained creation free during the life of the trop.

8. The structure shall be dewatered by approved methods, removed and the area stabilized when the drainage area has been properly stabilized.

12. Geotextile Class SE shall be placed over the bottom and sides of the outlet channel prior to the placement of stone. In the placement of stone of the placement of stone of the placement of the placement the entire control between the placement the entire control between the placement that the placement that placement the placemen

### DETAIL 14 - RIP-RAP DUTLET SEDIMENT TRAP - ST III TOP OF EMBANKMENT BOTTOM WIDTH OF WEIR (b) MINIMUM DEPTH OF CHANNEL (a) CROSS SECTION STORAGE HEIGHT FILTER CLOTH SHALL BE EMBEDDED AT LEAST 6' INTO THE EXISTING GROUND AT ENTRANCE TO THE DUTLET CHANNEL PROFILE POSITIVE \*\* CEMPACTED EMBANKHENT PERSPECTIVE VIEW NOTE: MAXIMUM DRAINAGE AREAS 10 oc

Silt Fence shall be inspected after each rainfall event and naintained wilges occur or when sediment accumulation reached 30% of the fabric height

U.S. BEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL RESOURCE CONSERVATION SERVICE B-5-3 DISTRICT OF COLUMBIA DEPARTMENT OF H

STANDARD INLET GUARD DIMENSIONS

STANDARD INLET GUARD CROSS SECTION

\* AT EACH INTERSECTION OF INLET PROTECTOR OVERLAP A MINIMUM OF 2\*

DETAIL 6E - AT GRADE INLET GUARD

DETAIL 6A - STANDARD INLET PROTECTION EDGE OF ROADWAY OR MINIMUM NAILING -STRIP JUBANAS GARDINATS DTEXTILE CLASS E SIP

 Excavate completely around the inlet to a depth of 18' below the notch elevation. 2. Drive the 2" x 4" construction grade labeler posts 1" into the ground at each corner of the Inits. Place not all strips between the posts on the ends of the Inits. Assemble the top portion of the 2" x 4" frame using the overlap joint shown on Detail 6A. The top of the frame (weir) must be 6" below adjacent roadways where flooding and sorty issues may arise.

2:1 SLOPE OR FLATTER

| D | 2:1 SLOPE OR FLATTER
| FLOW

POSITIVE DRAINAGE SUFFICIENT TO DRAIN

PLAN VIEW

FLOW CHANNEL STABILIZATION GRADE 0.5% MIN. 10% MAX.

U.S. TEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NUMBER ATURAL RESOURCE CONSERVATION SERVICE B-7-5 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

CROSS SECTION

SUFFICIENT TO DRAIN 6-DIKE WIDTH C-FLOW WIDTH d-FLOW DEPTH

DETAIL 9 - EARTH DIKE

EXCAVATE TO PROVIDE REQUIRED FLOW WIDTH AT DESIGN FLOW DEPTH

b-DIKE WIDTH

PLAN/CUT AWAY VIEW AGIP

DETAIL 6B - AT GRADE INLET PROTECTION

 Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place. Place 3/4' to 11/2' stone, 4'-6' thick on the grate to secure the fabric and provide additional filtration.

#### U.S. DEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL RESOURCE CONSERVATION SERVICE 9 - 7 - 6 DISTRICT OF COLUMBIA DEPARTMENT OF HEALT DETAIL 11 - PERIMETER DIKE / SWALE FLOW ALL SLOPES

 All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%. Runoff diverted from a disturbed area shall be conveyed to a sediment rapping device.

6. Fill shall be compacted by earth moving equipment.

 All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike. 8. Inspection and maintenance must be provided periodically and after

each roin event.

US. BEPARTHENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL RESOurce CONSERVATION SERVICE C-10-6 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

# CROSS SECTION PD/S-1 SEED AND MULCH (DRAINING & ACRE) PD/S-2 SEED AND COVER WITH SOIL STABILIZATION MATTING OR LINE WITH SOO (DRAINING BETWEEN 1 AND 2 ACRES) $\Rightarrow$ $\stackrel{PD/S-1}{\Longrightarrow}$ $\Rightarrow$ Construction Specifications

All perimeter dike/swales shall have an uninterrupted positive grade to an outlet. Spot elevations may be necessary for grade less than 1%.

 Runoff diverted from an undisturbed area shall outlet into an undisturbed stabilized area at a non-erosive velocity. 4. The swale shall be excavated or shaped to line, grade, and cross-section as required to meet the criteria specified in the

U.S. DEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL, RESOURCE CONSERVATION SERVICE C-12-4 DISTRICT OF COLUMBIA DEPARTMENT OF C

## DETAIL 6C - CURB INLET PROTECTION (COG OR COS INLETS) OF 2" X 4" 6" MAXIMUM SPACING 2" X 4" WEIR MAX. DRAINAGE AREA = 1/4 ACRE

This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.

Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard

2. Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the  $2^*$  x  $4^*$  weir. Securely noil the 2" X 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4' apart).

4. Place the assembly against the inlet throat and noil (minimum 2' lengths of  $2^{\circ} \times 4^{\circ}$  to the top of the weir at spacer locations). These  $2^{\circ} \times 4^{\circ}$  anchors shall extend across the inlet top and be held in place by sandbags or alternate weight. 5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat apening.

PERSPECTIVE VIEW

4' MINIMUM TOP WIDTH --

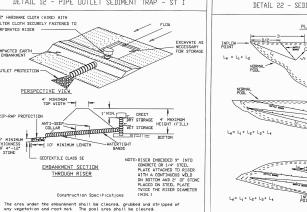
EMBANKMENT SECTION THROUGH RISER

Construction Specifications

U.S. DEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL RESOURCE CONSERVATION SERVICE D - 14 - 7 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

U.S. DEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL, RESOURCE CONSERVATION SERVICE  $\frac{1}{8}-7-7$  DISTRICT OF CILLUMBIA DEPARTMENT OF HEALTH

#### 16. Concentric trash rack and anti-vortex device design details are on Detai 17. Refer to Section G for dewatering requirements of sediment traps. 19. Where discharge occurs at the property line, local ordinances and drainage easement requirements shall be net. U.S. DEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL RESOURCE CONSERVATION SERVICE D = 14 - 8 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH DETAIL 12 - PIPE DUTLET SEDIMENT TRAP - ST I DETAIL 22 - SEDIMENT BASIN/TRAP BAFFLES



SHEETS OF 4'X 8'X 1/2' EXTERIOR GRADE PLYVOOD OR EQUIVALENT

PIPE DUTLET SEDIMENT TRAP - ST I

The structure shall be removed and area stabilized when the drainage area has been properly stabilized.

11. The riser shall be wrapped with 1/2" hardware cloth (wine) then wrapped with Geotextile Class E. The filter cloth shall extend of above the highest slit and of below the lowest slit. Where ends of filter cloth contagether, they shall be overlapped, folded and feathered to prevent uppass. Filter cloth shall be replaced an recessary to prevent clogping.

14. The riser shall be emboyed with inther a concrete base or steel jobs base to present firstian. Concrete bases also les at least into the riser of deneter on 12° deep with the riser embedded 5°. Steel jobs base shall be at least struck the riser of deneter on 10° deep with the riser embodded 5°. Steel jobs base shall be at least truck the riser deneter, 10° ininum thickness and attached to the bottom of the riser by a continuous well to from a orthodorous control of the riser by a continuous well to from a on the plate.

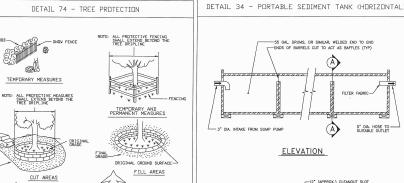
D = DISTANCE BETVEEN

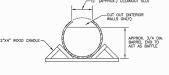
FORMULA: Ve = (A/2)

e TOTAL DISTANCE FROM THE INFLOW POINT AROUND THE BAFFLES TO THE RISER

L<sub>e</sub> ≥ V<sub>e</sub> × 2

U.S. BEPARTMENT OF AGRICULTURE PAGE VATERSHED PROTECTION DIVISION NATURAL RESOURCE CONSERVATION SERVICE D - 15 - 32 DISTRICT OF COLUMBIA BEPARTMENT OF HEALTH





CROSS-SECTION A-A

RIP-RAP DUTLET SEDIMENT TRAP - ST III DETAIL 35 - PORTABLE SEDIMENT TANK (VERTICAL)

The area under embankment shall be cleared, grubbed and stripped of any regetation and root hat. The pool area shall be cleared.

The fill naterial for the enbankment shall be free of roots or other wood vegetation as well as over-sized stones, rocks, organic naterial on other objectionable naterial. The enbankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of enbankment shall be 4', neasured at center line of chankment.

 Elevation of the top of any dike directing water into trap must equal o exceed the height of trap enbankment. 5. Storage area provided shall be figured by computing the volume measured from top of excavation. (For storage requirements see Table 12).

6. Filter cloth shall be placed over the botton and sides of the outlet channe prion to placement of stone. Section of fabric nust overlap at least 1' with section nearest the entrance placed on top. Fabric shall be embedded at least 6' into existing ground at entrance of outlet channel. . Stone used in the outlet channel shall be 4' - 12' placed 18' thick.

9. Dutlet channel must have positive drainage from the trap.

11. The structure shall be inspected periodically and after each rain and repaired

1/2' STEEL PLATE WELDED TO PIPES ELEVATION EYE BOLTS -- 0

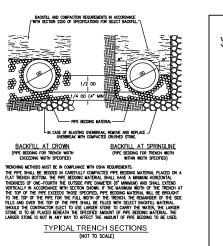
The following formula should be used in determining the storage volume of the sediment tank: 1 cubic foot of storage for each gallon per minute of pump discharge capacity.

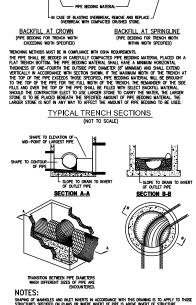
3. Tanks may be connected in series.

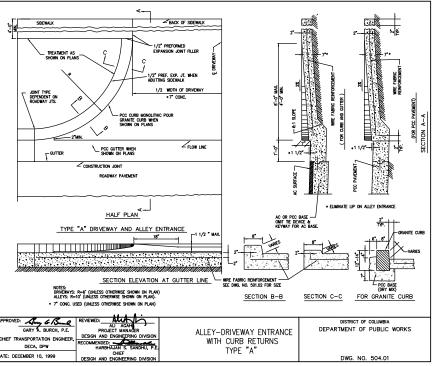
1NFLDV 2P CMP CUTFLDN CUTFLD CUTFL CUTFLD C 

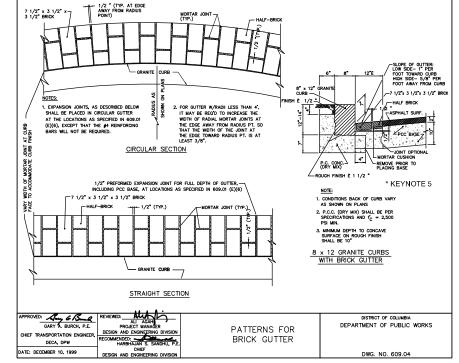
Construction Specifications

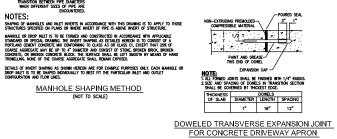
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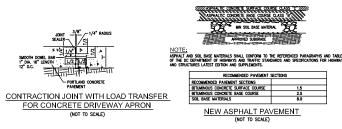


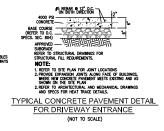








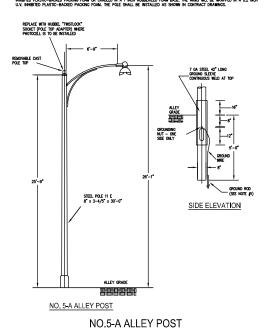


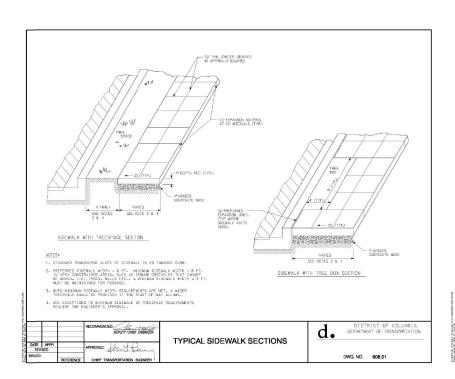


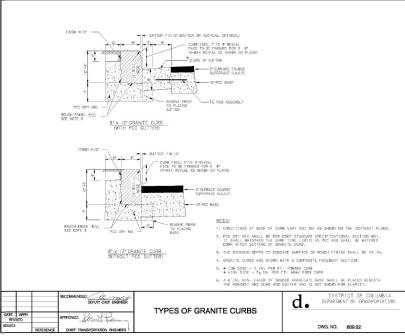


WORK CONSISS OF FURNISHING AND INSTALLING ALLEY LIGHT POLES AND LIGHT POLES PCC FOUNDATINS COMPLETE IN PLACE AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY BY THE ENGINEER. LIGHT POLES SHALL BE DC TYPES 5A WITH TAGGS FOR DC ID NUMBERS.

- A) DO TAGS SHALL BE OR EDUAL TO 2" OMANCIER INLECTION MOLDED THIS COLOR POLIETHILES TAGES MAINTACTURED BY THE PRODUCT, INC. THE TAGES SHALL HAVE EXACK CHARACTERS AND YELLOW BROCKORDS. THE TAGS SHALL BE PROVIDED WITH ALMANIMA THA HOLDERS MANIFACTURED BY THE TAG MANIFATURE AND SHALL BE ARRANGED VERTICALLY IN THE TAG HOLDERS. THE MOINTING HIGH OF TAG HOLDERS SHALL BE 12 IT FROM THE THISSELD GROUND FORD OLD IN JURISEES REPER TO CONTRACT GRAMMISS.
- B) THE POLE SHALL BE 8.8 NOVES x 2.4 INCHES x 30 FT, TAPPRED WITH A 3-FT ARM. THE POST SHALL INCLUDE A WELDED SIMPLEX TO ACCOMMODATE ONE 5-FT SINGLE WIGHER ARM. THE SHAFT SHALL BE FABRICATED FROM 11-GAUGE STEEL MEETING ASTN-A595 GR A WIT A YELD PORT IN CLESS THAN 25,000 PS.
- THE FOST AND ARM SHALL BE HOT-DP CALVANIZED FER THE REQUIREMENTS OF ASTIM AREA. THE FOST AND AIR CALVANIZED COATING SHALL BEF THEE OF ANY DEBRIS OF FULK ASH, ALL CALVANIZED CHERKON SHAFACES VISUALLY DIPOSED ARE TO BE S-PRED COMMECTION OF AIR THE COATING IS ELECTROSTATICALLY APPLIED AND CARD BY LEVENTING THE ZINC-COATING TO EXPENTED TO ANNOLING OF IT DECRESS OR A GAS-FIRED COMMETTER OFFIC COATING COLOR SHALL BE D.C. CRAFT, THE FOLK BILL EITHER BY MOVIPED IN A OR JOH UV.







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