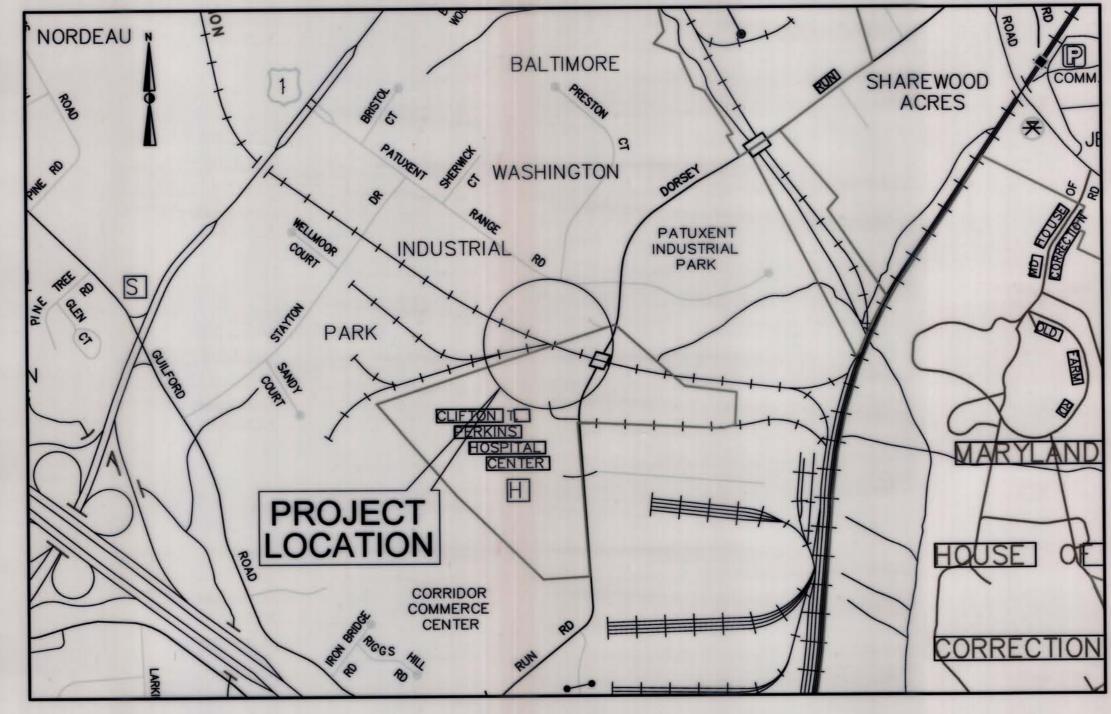
PIPEREPAIR

8255 PATUXENT RANGE ROAD ELECTION DISTRICT 1 HOWARD COUNTY, MARYLAND CAPITAL PROJECT D-1125

INDEX OF SHEETS

- TITLE SHEET
- PLAN, PIPE PROFILE AND DETAILS
- EROSION AND SEDIMENT CONTROL NOTES AND DETAILS



LOCATION MAP HOWARD COUNTY

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE

DAVID T. MORICON!

DEVELOPER'S CERTIFICATE

" I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)

11/5/10

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND



DES:			M-BOLT	4 13
DRN: BJK				
CHK: DTM				
DATE: 10/2010	BY	NO.	REVISION	DATE

TITLE SHEET

SCALE MAP NO.

_ BLOCK NO. _____

8255 PATUXENT RANGE ROAD

SHEET _1_OF_3

AS SHOWN

PIPE REPAIR

FILE NAME: 0:\20834583\CAD\PlanSet\pGN-T000_HoCo.dwg PLOTTED: Friday, November 05, 2010 - 7:59am USER: chris_fleming

ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT D-1125

" I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

PROFESSIONAL CERTIFICATION "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. ____16156 EXPIRATION DATE: ___8/28/2012

THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT

THE PLAN AND PROFILE WAS DEVELOPED WITHOUT THE BENEFIT OF A

BALTIMORE-WASHINGTON INDUSTRIAL PARK", F-86-25; AND SHEET 2 OF

TIMES. DAMAGE TO THE RAILROAD SIDING MUST BE REPLACED AT THE

WAS OBTAINED FROM SHEET 2 OF 2 "STORM DRAIN PROFILE FOR

2. CONTRACTOR MUST PROTECT THE EXISTING RAILROAD SIDING AT ALL

3. HOWARD COUNTY WILL COORDINATE THE APPROVALS OF ANY PARKING AREAS THAT WILL BE USED FOR STAGING AND STORAGE. THE CONTRACTOR SHALL MINIMIZED DISTURBANCE TO EXISTING PAVEMENT

4. PROPOSED MANHOLE ACCESS NO.1 SHALL BE MANUFACTURED INTEGRAL

5. PROPOSED MANHOLE ACCESS NO.2 SHALL BE 48" DIAMETER, PRECAST

CONCRETE WITH A 24" DIAMETER FRAME AND COVER 6" BASE FINISH

6. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF

7. THE SYSTEM OF COORDINATES USED BY HOWARD COUNTY IS BASED IN THE FOLLOWING DATUMS AND PROJECTIONS:

8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST

9. ALL WORK SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE

THE ENVIRONMENT AND THE NATURAL RESOURCES CONSERVATION

10. THE PROPERTY LINES AND EASEMENT LINES ARE BASED ON LAND

11. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE

12. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHOD, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY

13. APPROXIMATE UTILITIES ARE SHOWN FROM AVAILABLE RECORDS. THE

ACQUISITION DOCUMENTS RESEARCHED AND PLACED ON THE PLANS.

PLANS AND THE FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR

MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR

"1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION

AND SEDIMENT CONTROL," ISSUED BY THE MARYLAND DEPARTMENT OF

STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.

PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AND MISS UTILITY AT 1-800-257-7777 AT

AT THE SURFACE. THE RISER SHALL INCLUDE LADDER RUNGS

GRADE. SEE HOWARD CO. STANDARD G-5.12 FOR ADDITIONAL

LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK

HORIZONTAL: MARYLAND NAD83 (ADJ 1991) VERTICAL: NAVD88

HOWARD COUNTY CONTROL:

STATION NO. STATION NO.

TO THE 84-INCH CMP. THE RISER PIPE SHALL BE 36" DIAMETER WITH A 36" FRAME AND COVER SET IN A 6'X6' CONCRETE SLAB, 4" THICK

AND CURBS. REPAIR ANY PAVEMENT AND CURBING DAMAGED AS PART

12 OF SDP#86-161. ALL ELEVATIONS ARE APPROXIMATE.

CONTRACTORS EXPENSE.

14. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

15. UTILITY CONTACTS:

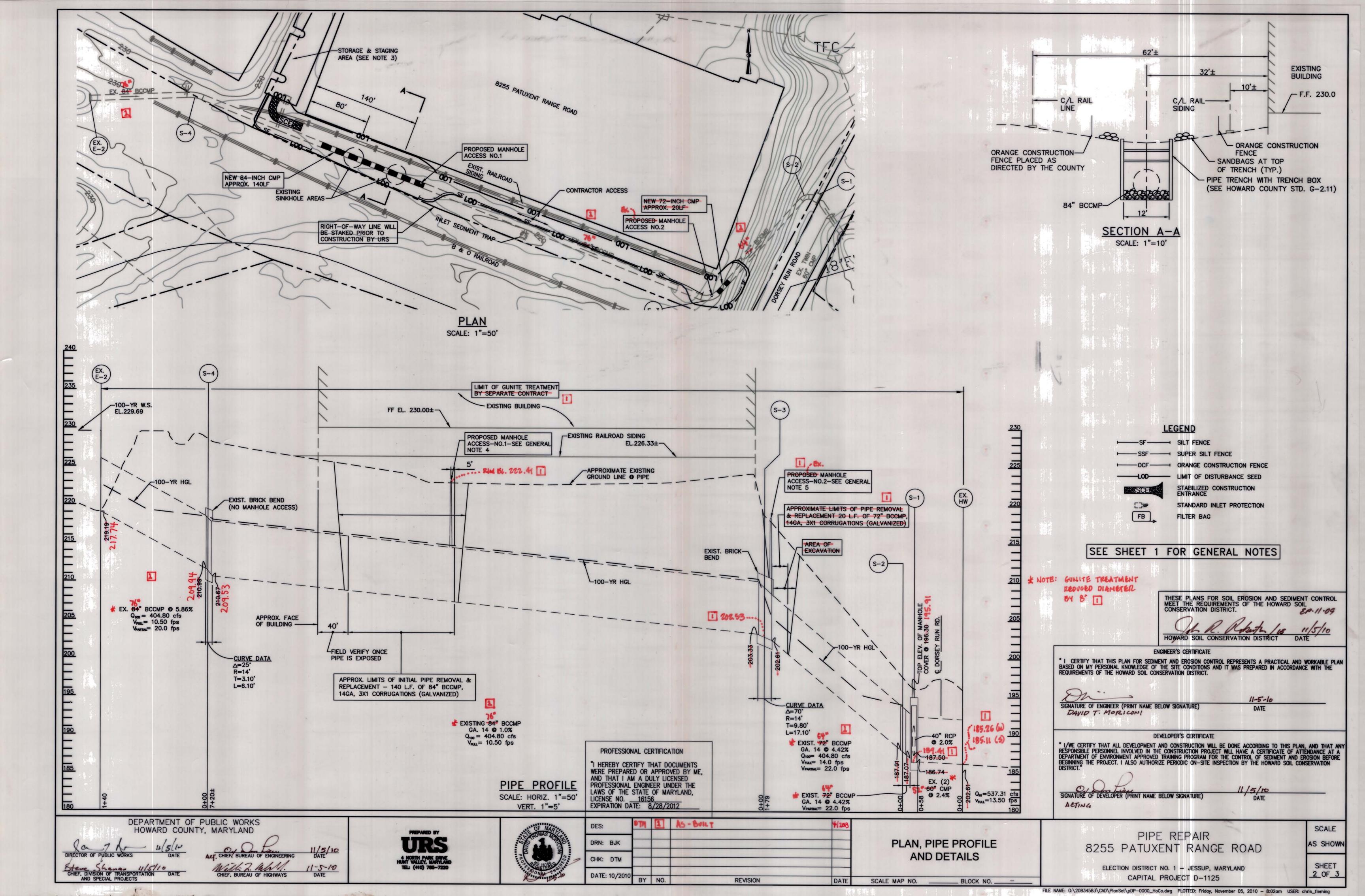
THOSE CHANGES.

PRECAUTIONS AND PROGRAMS.

VERIZON: MCI: **XPEIUS:**

(410)-597-7835 (ELECTRIC) (410)-291-5101 (GAS) (410)-224-9285 (912)-729-6016 (703) - 386 - 2340

(443) - 250 - 1873ABOVENET: (410)-513-3207 COMCAST:



PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY

IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE

- 1. PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1,000 SQUARE FEET) AND 600 LBS. PER ACRE 10—10—10 FERTILIZER (14 LBS. PER 1,000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO UPPER 3 INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30—0—0 UREAFORM FERTILIZER (9 LBS. PER 1,000 SQUARE FEET).
- 2. ACCEPTABLE APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1,000 SQUARE FEET) AND 1,000 LBS. PER ACRE 10—10—10 FERTILIZER (23 LBS. PER 1,000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO

SEEDING: FOR THE PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS. PER 1,000 SQUARE FEET) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS. PER 1,000 SQUARE FEET) OF WEEPING LOVEGRASS. DURING THE PERIOD OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY ONE OF THE

- 1. 2 TONS PER ACRE OF WELL-ANCHORED MULCH STRAW AND SEED AS SOON AS POSSIBLE IN THE SPRING. 2. USE SOD.
- 3. SEED WITH 60 LBS. PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1,000 SQUARE FEET) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLONS PER 1,000 SQUARE FEET) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FEET OR HIGHER, USE 347 GALLONS PER ACRE (8 GALLONS PER 1,000 SQUARE FEET) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS, AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTRIBUTED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 1,000 SQUARE FEET).

SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS. PER 1,000 SQUARE FEET). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS. PER 1,000 SQUARE FEET). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOD.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1,000 SQUARE FEET) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLONS PER 1,000 SQUARE FEET) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FEET OR HIGHER, USE 347 GALLONS PER ACRE (8 GALLONS PER 1,000 SQUARE FEET) FOR ANCHORING. REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

REFER TO THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR ADDITIONAL RATES AND METHODS NOT COVERD.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER
 - B. 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOLUME 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SECTION G).

TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THERE REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT

7. SITE ANALYSIS:

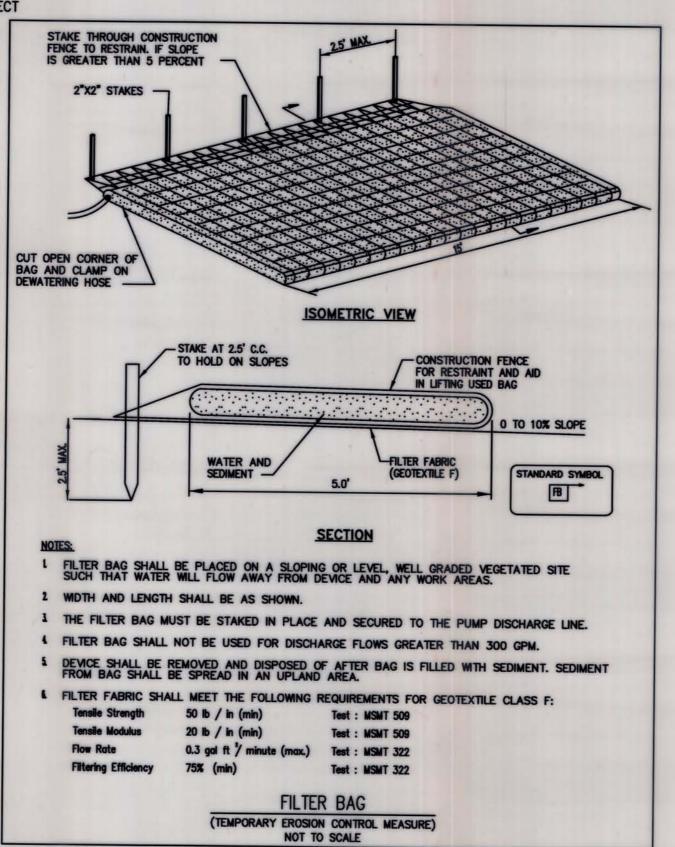
TOTAL AREA OF SITE - 0.50 ARCES
AREA DISTURBED - 0.50 ACRES
AREAS TO BE ROOFED OR PAVED - 0.00 ACRES
AREA TO BE VEGETATIVELY STABILIZED - 0.50 ACRES
TOTAL CUT - 1800 CY
TOTAL FILL - 1200 CY
OFF-SITE WASTE SITE - HOWARD COUNTY LANDFILL
OFF-SITE BORROW SITE - APPROVED SITE WITH AN ACTIVE GRADING PERMIT

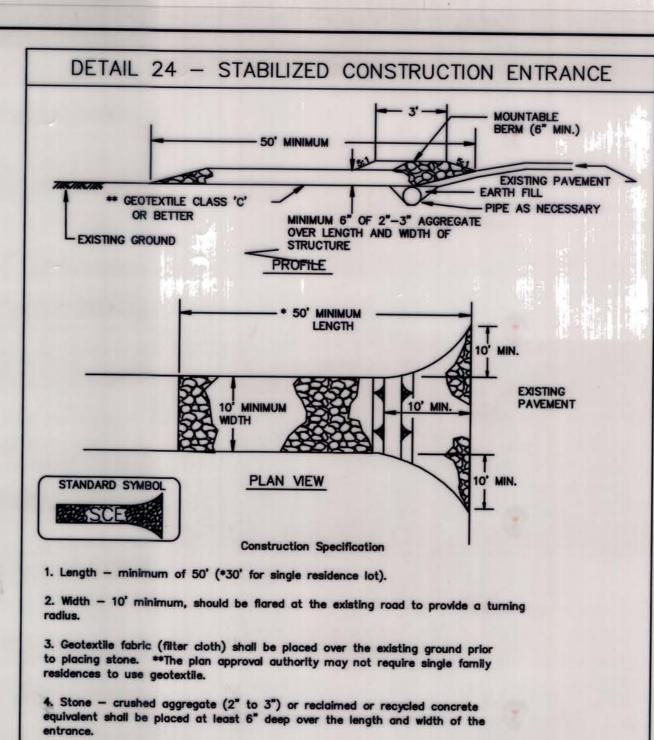
- 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- 12. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- 13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- 14. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL.
 THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
- 15. CONSTRUCTION WITHIN, ALONG OR ACROSS STREAM CHANNELS SHALL, AS A MINIMUM, CONFIRM TO CRITERIA DESCRIBED UNDER "MARYLAND'S WATERWAY

DIVERSION PIPE -48" HDPE (TEMP.) OPEN PIPE TRENCH DISTURBED AREA FILTER FB PIPE TRENCH PLAN VIEW SANDBAGS -48" HDPE (TEMP.) --- DISTURBED AREA SECTION VIEW A-A

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN THE NECESSARY GRADING PERMITS PRIOR TO CONSTRUCTION (1 DAY).
- 2. NOTIFY HOWARD COUNTY AT 410-313-1855 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION (1 DAY).
- 3. WITH THE APPROVAL OF THE INSPECTOR, INSTALL STABILIZED CONSTRUCTION ENTRANCES, SILT FENCES, SUPER SILT FENCES AND INLET PROTECTION. THIS WILL INCLUDE THE REMOVAL OF VEGETATION WITHIN THE LIMITS OF DISTURBANCE BY MOWING AND MINOR CLEARING AND GRUBBING OF SMALL WOODY VEGETATION. (2 DAYS)
- 4. INSTALL MEASURES TO PROTECT THE RAILROAD SIDING AS DIRECTED BY THE COUNTY. THE RAILROAD SIDING SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICAL. (2 DAYS)
- 5. EXCAVATION PIPE TRENCH BEGINNING WITH DOWNSTREAM END OF 84-INCH CMP TO BE REMOVED. INSTALL TRENCH SUPPORT SYSTEM. EXCAVATE FOR PROPER BEDDING, AND INSTALL NEW PIPE. CONNECT PER MANUFACTURER SPECIFICATIONS AND AS DIRECTED BY THE COUNTY. THE PROPOSED MANHOLE ACCESS NO. 1 SHALL BE A MINIMUM OF 36-INCHES IN DIAMETER WITH A GAGE AND CORRUGATION COMPATIBLE WITH THE 84-INCH PIPE. DURING NON-WORKING PERIODS, PLACE A 48-INCH HDPE IN THE PIPE TRENCH. BETWEEN THE 84-INCH PIPES AND SECURE WITH SANDBAGS AT THE ENDS. SEE DETAIL. (8 DAYS)
- 6. BACKFILL TRENCH USING PROPER COMPACTION TECHNIQUES AS OUTLINED IN THE SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS. STABILIZE THE SURFACE WITH 4-INCHES OF SALVAGED TOPSOIL, SEED AND MULCH. (1 DAY)
- 7. EXCAVATION PIPE TRENCH BEGINNING WITH DOWNSTREAM END OF 72-INCH CMP TO BE REMOVED. INSTALL TRENCH SUPPORT SYSTEM. EXCAVATE FOR PROPER BEDDING, AND INSTALL NEW PIPE. CONNECT PER MANUFACTURER SPECIFICATIONS AND AS DIRECTED BY THE COUNTY. THE PROPOSED MANHOLE ACCESS NO. 2 SHALL BE A MINIMUM OF 48-INCHES AT THE BASE AND 36-INCH MINIMUM AT THE FRAME AND COVER. MANHOLE ACCESS NO. 2 SHALL BE PRECAST CONCRETE (4 DAYS)
- BACKFILL TRENCH USING PROPER COMPACTION TECHNIQUES AS OUTLINED IN THE SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS. STABILIZE THE SURFACE WITH 4-INCHES OF SALVAGED TOPSOIL, SEED AND MULCH. (1 DAY)
- 9. PREPARE PIPE FOR GUNITE AND INVERT GROUT TREATMENT. PLACE GUNITE IN PIPE BEGINNING AT THE UPSTREAM END OF THE PIPE AND PROGRESS DOWNSTREAM. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. A MINIMUM OF 3-INCH OF GUNITE SHALL BE APPLIED TO THE INTERIOR OF THE PIPE CIRCUMFERENCE. WORK WILL ONLY BE PERFORMED ON DRY WEATHER DAYS
- 10. REMOVE ALL MATERIAL PROTECTING THE RAILROAD SIDING. STABILIZE WITH BALLAST STONE, TOPSOIL, SEED AND MULCH AS DIRECTED BY THE COUNTY. (2 DAYS)
- 11. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR. REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND COMPLETE THE FINAL STABILIZATION. (2 DAYS)

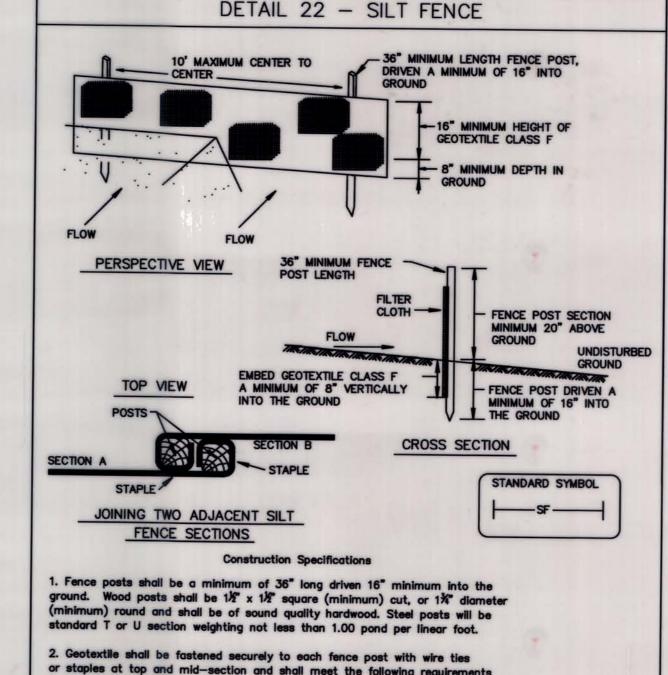




5. Surface Water — all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. 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.

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION F - 17 - 3



or staples at top and mid-section and shall meet the following requirements

50 lbs/in (min.) 20 lbs/in (min.) 0.3 gal ft / minuite (max.) Test: MSMT 322

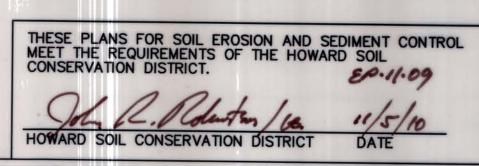
bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMEN SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

SCALE MAP NO.

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER 10' MAXIMUM " MINIMUM GROUND -SURFACE FLOV 2/2" DIAMETER GALVANIZED OR ALUMINUM WITH 1 LAYER OF CHAIN LINK FENCING FILTER CLOTH EMBED FILTER CLOTH 8" FILTER CLOTH MINIMUM INTO GROUND * IF MULTIPLE LAYERS ARE STANDARD SYMBOL . Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length 2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section. 4. Filter cloth shall be embedded a minimum of 8" into the ground. 5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded. 6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height 7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F: Tensile Strength 50 lbs/in (min.) 20 lbs/in (min.) Test: MSMT 509 Test: MSMT 509 Tensile Modulus Flow Rate 0.3 gal/ft /minute (max.) Test: MSMT 322 Filtering Efficiency 75% (min.) Test: MSMT 322

DETAIL 33 - SUPER SILT FENCE



MARYLAND DEPARTMENT OF ENVIRONMEN

WATER MANAGEMENT ADMINISTRATION

ENGINEER'S CERTIFICATE

" I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DAVID T. MORICONI

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT AN' RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE ACTING

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

11/5/10

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND





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DRN: BJK			
CHK: DTM			
DATE: 10/2010			
DATE: 10/2010	BY	NO.	REVISION

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

__ BLOCK NO. _

ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND

CAPITAL PROJECT D-1125

FILE NAME: 0:\20834583\CAD\PlanSet\pES-N001_HoCo.dwg PLOTTED; Fridgy, November 05, 2010 - 8:03cm

PIPE REPAIR

8255 PATUXENT RANGE ROAD

AS SHOWN SHEET

SCALE

3 OF 3