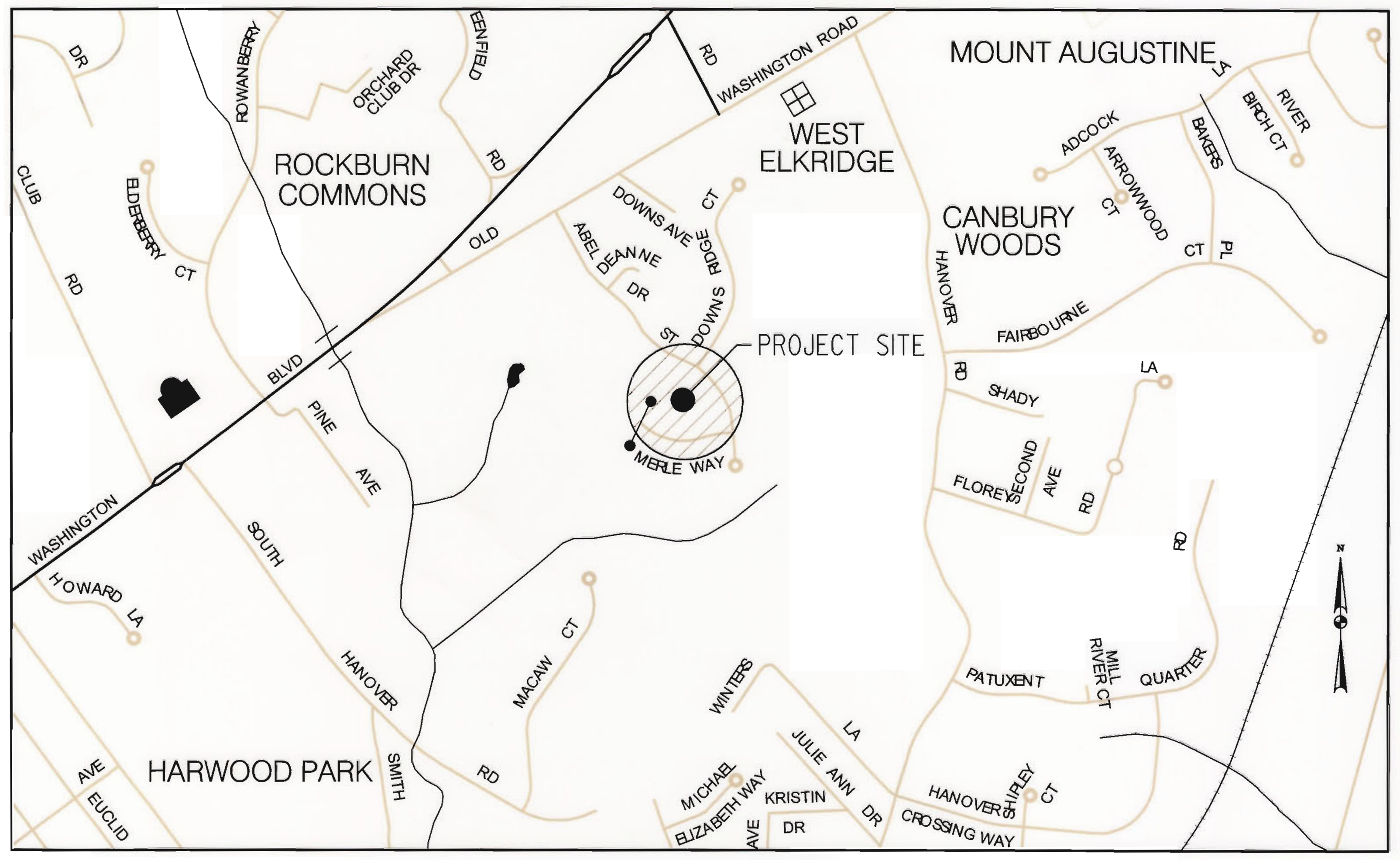
INDEX OF SHEETS

CONVENTIONAL SIGNS

MAILBOX	M.B.
EXISTING FENCE LINE	—X——X—
EXISTING RIGHT OF WAY LINE	
BASE LINE	500 501
FIRE HYDRANT	F.H.
PROPOSED FULL DEPTH PAVEMENT	
PROPOSED GRINDING & HMA PAVEMENT OVERLAY	
PROPOSED CONCRETE SIDEWALK, DRIVEWAY ENTR.	
WATER LINE	— W —
GAS LINE	— G —
SAN. SEWER	— SAN —
UG ELECTRIC	— E —
UG TV CABLE	— CATV —
FILL LINE	—F—
PROPOSED PIPE/CULVERT	
EXISTING PIPE/CULVERT	
UTILITY POLE	
HEDGE / TREE LINE	
BUSH / DECIDUOUS TREE	
CONIFEROUS TREE	
RIP-RAP	
SUPER SILT FENCE	—SSF—
STANDARD INLET PROTECTION	SIP
AT-GRADE INLET PROTECTION	AGIP
CURB INLET PROTECTION	CIP
LIMITS OF DISTURBANCE	— LOD —
STABILIZED CONSTRUCTION ENTRANCE	SCE



LOCATION MAP
SCALE 1" = 2000'

CAPITAL PROJECT NO. D-1124-25

ABEL STREET DRAINAGE IMPROVEMENTS

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

1. ALL INFORMATION AND DETAILS ON THESE DRAWINGS SHALL BE CONSTRUCTED AS PER THE PLANS OR AS DIRECTED BY THE HOWARD COUNTY ENGINEER.
2. ALL STATIONING AND DIMENSIONING ARE TO BE FIELD VERIFIED BY THE CONTRACTOR
3. STORM DRAINAGE SLOPES ARE TO BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE HOWARD COUNTY ENGINEER
4. APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THESE LOCATIONS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.

AT&T	1-800-252-1133
COMCAST	410-461-1362
BG&E (CONTRACTOR SERVICES)	410-850-4620
BG&E (UNDERGROUND DRAINAGE CONTROL)	410-787-9068
MISS UTILITY	1-800-257-7777
HOWARD COUNTY BUREAU OF UTILITIES	410-313-4900
HOWARD COUNTY DIVISION OF CONSTRUCTION INSPECTION	410-313-1880
VERIZON	1-800-743-0033/410-224-9210

   THE CONTRACTOR SHALL CONTACT THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION OF ENGINEERING FOR VERIFICATION AND/OR INFORMATION REGARDING:

   A. PROPOSED/EXISTING RIGHT-OF-WAY.
   B. UTILITY RELOCATION.
   C. MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.
   D. EROSION/SEDIMENT CONTROL CERTIFICATION AND PERMIT.
   E. HORIZONTAL/VERTICAL SURVEY CONTROL.
   F. GRADING PERMIT.
5. SEE HOWARD COUNTY STANDARD DETAILS NO'S G-1.01 AND G-1.02 FOR STANDARD SYMBOLS.
6. HORIZONTAL COORDINATES ARE BASED ON MD NAD 83/91 DATUM AND VERTICAL ELEVATIONS ARE BASED ON NAVD 1988 ELEVATIONS, TRANSFERRED FROM N.G.S. AND HOWARD COUNTY CONTROL STATIONS:

   COUNTY MONUMENT 47GC (HORIZONTAL AND VERTICAL)
   N 528,939.75
   E 1,354,223.5
   ELEV. 226.27

   COUNTY MONUMENT 0051 (OLD "47GA") (HORIZONTAL ONLY) PID NO. A18508
   N 532,404.18
   E 1,351,627.37
   ELEV. 349.70
7. A STAGING AND STOCKPILE AREA WILL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE HOWARD COUNTY ENGINEER. STOCKPILING WILL NOT BE PERMITTED ON SITE.
8. TOPOGRAPHY SURVEY INFORMATION BASED ON FIELD SURVEY PERFORMED BY JOHNSON, MIRMIRAN & THOMPSON DATED SEPTEMBER 2014.
9. UTILITY TEST HOLES PERFORMED BY JOHNSON, MIRMIRAN AND THOMPSON, MARCH 2015.
10. a) STATIONS FOR TYPE 'S' COMBINATION INLETS ARE GIVEN TO THE GEOMETRIC CENTER OF THE STRUCTURE. OFFSETS ARE GIVEN TO THE FACE OF THE INLET HEADPIECE (FLOWLINE OF MODIFIED COMBINATION CURB AND GUTTER). TOP OF CURB (T.C.) ELEVATIONS ARE GIVEN TO THE TOP OF THE INLET HEADPIECE.
    b) STATIONS FOR PRECAST STD. TYPE A-5 & STD. TYPE A-10 INLETS ARE GIVEN TO THE GEOMETRIC CENTER OF THE STRUCTURE. OFFSETS ARE GIVEN TO THE FACE OF THE CURB. TOP ELEVATIONS ARE GIVEN TO THE TOP OF CURB (T.C.).
    c) STATIONS AND OFFSETS FOR 48" DIA. PRECAST MANHOLES ARE GIVEN TO THE GEOMETRIC CENTER OF THE STRUCTURE. TOP ELEVATIONS ARE GIVEN TO THE TOP OF MANHOLE RIM (T.R.).

By the Developer:

"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 the 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."

Marshall N. Davidson — 5/13/15
MARSHALL N. DAVIDSON
Signature of Developer — Date
Print name below Signature

By the Engineer:

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Paul F. Clement — 05/07/15
PAUL F. CLEMENT
Signature of Engineer — Date
Print name below Signature

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Howard Soil Conservation District — Date

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE 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. 15466, EXPIRATION DATE: JULY 15, 2015"

TI-1

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS — 5/15/15
CHIEF, BUREAU OF HIGHWAYS — 5/15/2015
Steve Sharar — 5/13/15
CHIEF, TRANSPORTATION AND SPECIAL PROJECTS DIVISION
Thomas E. Butler — 5/13/15
CHIEF, BUREAU OF ENGINEERING
DEPUTY DIRECTOR OF PUBLIC WORKS

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®
72 Loveton Circle Baltimore, Maryland 21152-0949

STATE OF MARYLAND — PAUL FRANKLIN CLEMENT — No. 15466 — PROFESSIONAL ENGINEER
05/07/15

DES: JRB
DRN: JMB
CHK: SAM
DATE: FEB 2015

BY	NO.		DATE

CAPITAL PROJECT NO.
D-1124-25

MAP NO. | BLOCK NO.

TITLE SHEET
ABEL STREET - DRAINAGE IMPROVEMENTS
ELECTION DISTRICT 1 — HOWARD COUNTY, MARYLAND

SHEET 1 OF 5

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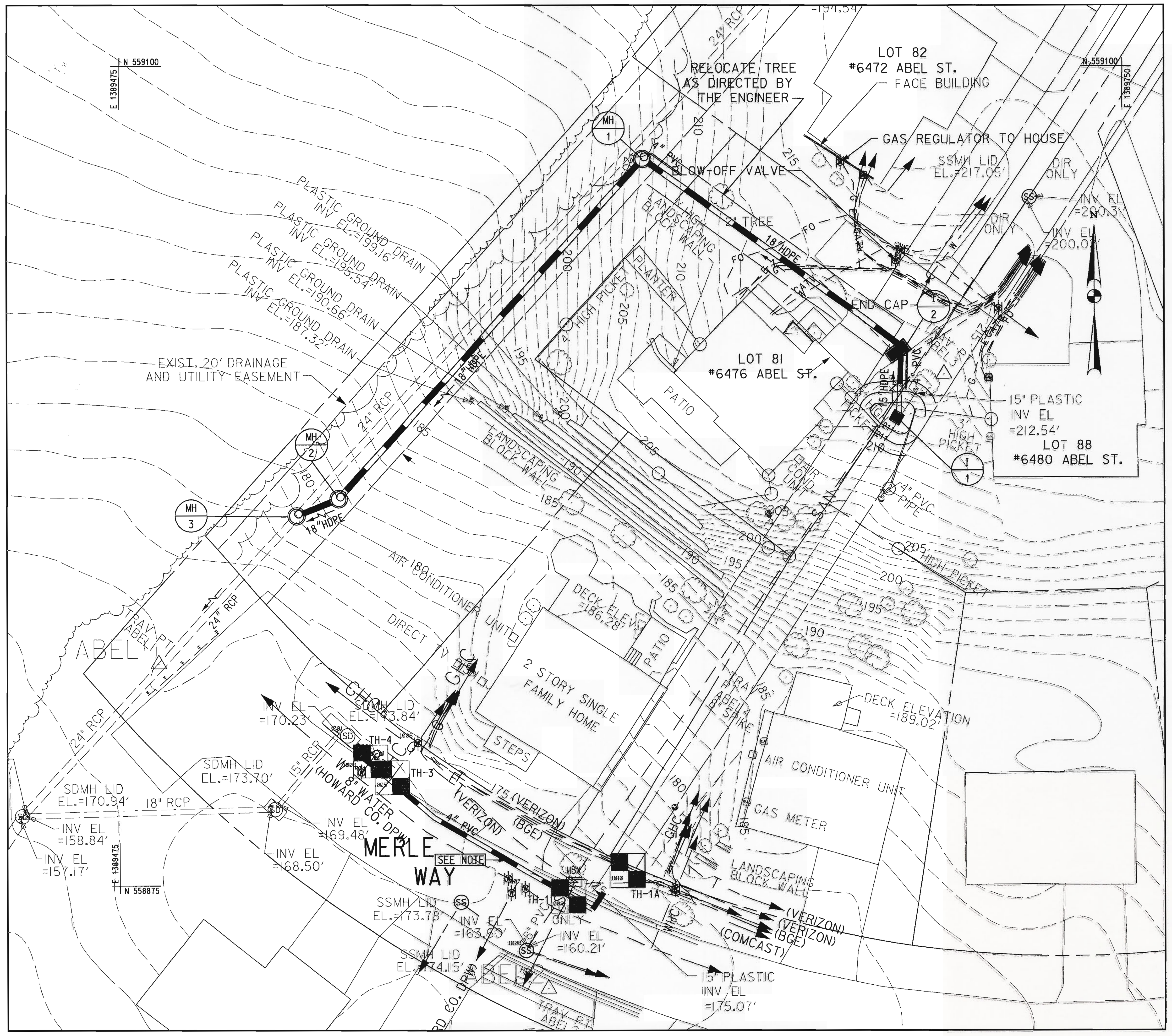
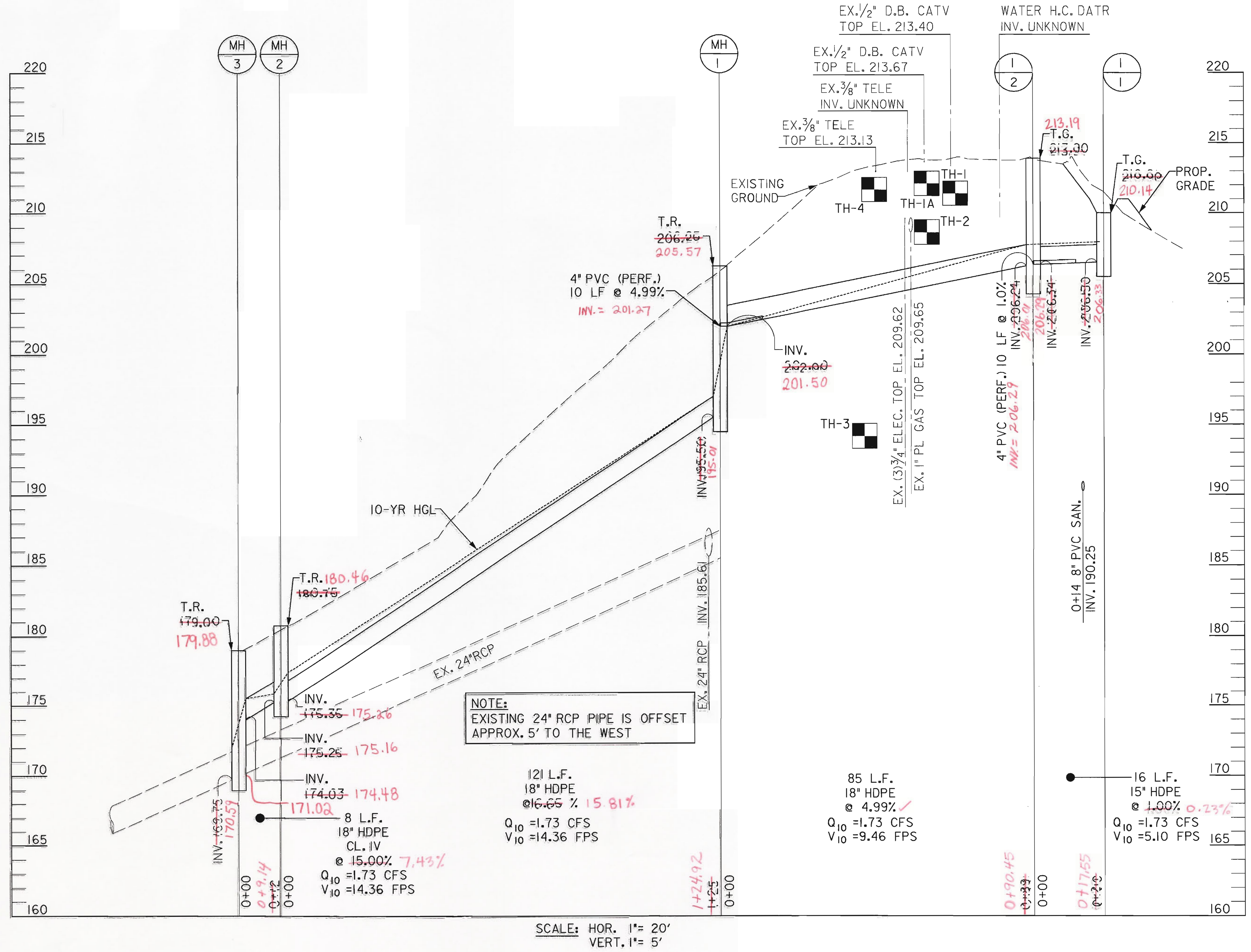




PIPE SCHEDULE

FROM	TO	TYPE	LENGTH
I-1	I-2	15" HDPE	16 L.F.
I-2	MH-1	18" HDPE	85 L.F.
MH-1	MH-2	18" HDPE	121 L.F.
MH-2	MH-3	18" HDPE	8 L.F.

NOTE: HDPE SMOOTH WALL PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M252 AND M294. PIPE MATERIAL SHALL BE HIGH DENSITY POLYETHYLENE CONFORMING WITH THE REQUIREMENTS OF CELL CLASS 324420C AS DEFINED AND DESCRIBED IN ASTM D3350.

DRAINAGE STRUCTURE SCHEDULE

NO.	NORTHING	EASTING	TYPE	STD. REF.	DEPTH
I-1	559,003.75	1,389,688.07	YARD INLET	D-4.14	3.50'
I-2	559,021.95	1,389,688.40	DOUBLE TYPE 'S' INLET	D-4.23	7.65
MH-1	559,074.71	1,389,618.38	48" DIA. STD. PRECAST MANHOLE	G-5.12	10.75'
MH-2	558,981.46	1,389,535.06	48" DIA. STD. PRECAST MANHOLE	G-5.12	5.50'
MH-3	558,976.81	1,389,523.55	48" DIA. STD. PRECAST MANHOLE	G-5.12	9.25'

NOTE: COORDINATES SHOWN ARE GIVEN AT THE GEOMETRIC CENTER OF THE DRAINAGE STRUCTURE.

UTILITY TEST HOLES - MERLE WAY

NO.	NORTHING	EASTING	TYPE	TOP ELEV.	DEPTH
1	558,872.0787	1,389,597.7962	(2) 1" PL. CONDUITS - FIBER OPTIC	172.52	1.86'
1A	558,879.1647	1,389,614.1036	2.5" PL. GAS	172.85	3.20'
3	558,904.8217	1,389,549.5283	0.75" COPPER WATER - WHC	168.87	4.89'
4	558,909.3894	,1389,543.6448	6" WATER	168.80	4.99'

UTILITY TEST HOLES - ABEL STREET

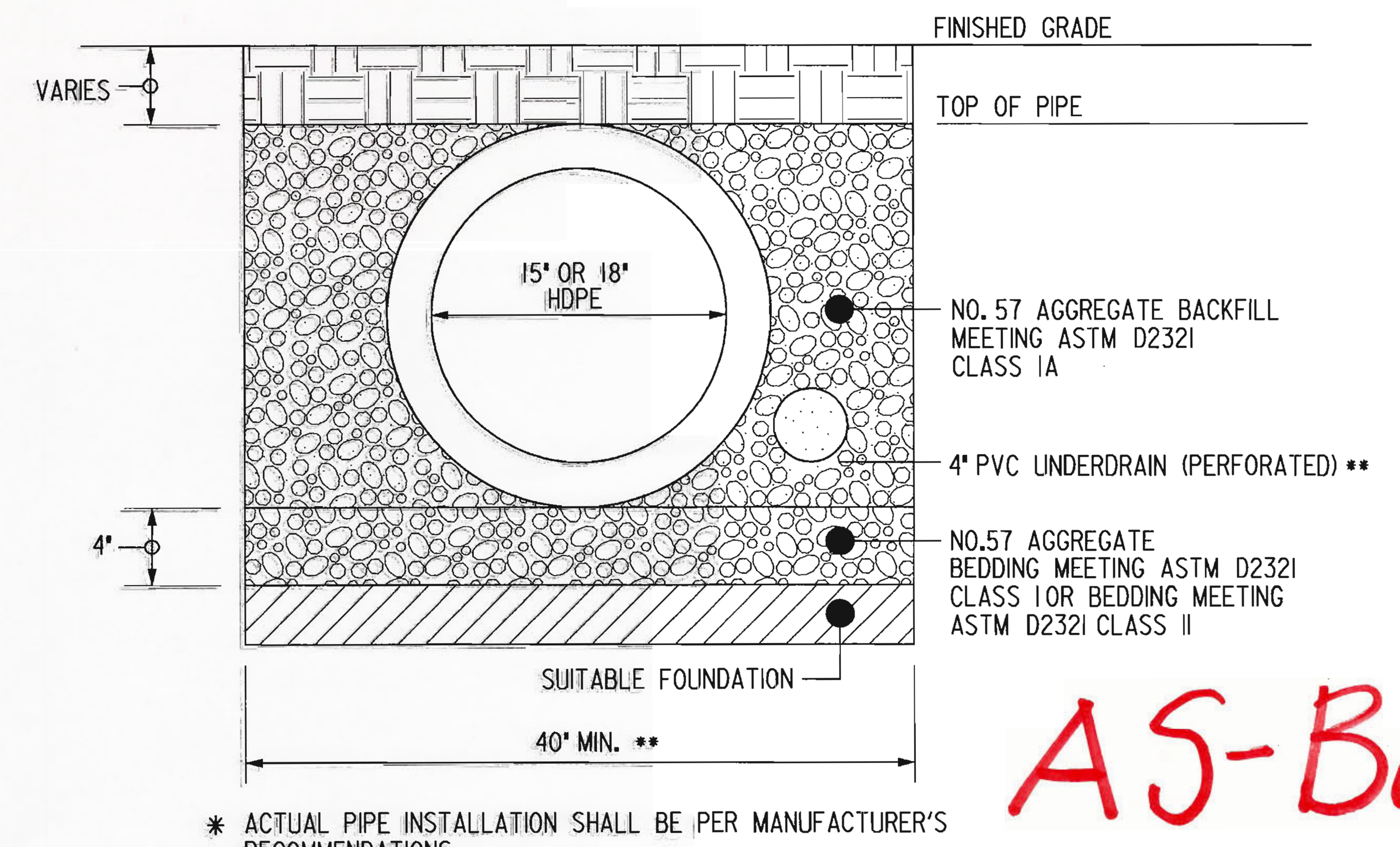
NO.	NORTHING	EASTING	TYPE	TOP ELEV.	DEPTH
1	559,038.4395	1,389,669.8908	1/2" D.B. CABLE - CATV	213.40	0.54'
1A	559,042.1321	1,389,665.9047	1/2" D.B. CABLE - CATV	213.67	0.28'
2	559,044.3625	1,389,662.7411	1" PL. GAS	209.65	4.29'
3	559,045.4593	1,389,661.3642	(3)3/4" DB CABLES - ELECTRIC	209.62	4.24'
4	559,050.4118	1,389,654.8721	3/8" D.B. CABLE - TELE	213.13	0.53'

UTILITY NOTE:
PROPOSED INLET, I-2, IS IN CONFLICT WITH A 1/2" D.B. CABLE TV CONDUIT. CONTRACTOR SHALL RELOCATE CABLE AS DIRECTED BY THE ENGINEER.

** PROVIDE 10 L.F. OF PERFORATED 4" PVC UPSTREAM OF STRUCTURES I-2 AND MH-1. RUN PVC PIPE PARALLEL TO STORM DRAIN PIPE. MATCH INVERT AND SLOPE OF PROPOSED HDPE PIPE. INCREASE TRENCH WIDTH AS NECESSARY TO ACCOMMODATE 4" PVC WITHIN NO. 57 STONE BACKFILL WITH 4" MIN STONE AROUND PVC PIPE. WRAP PVC WITH CLASS SD TYPE II GEOTEXTILE, NON-WOVEN.

NOTE:
INSTALL SOLID 4" PVC UNDERDRAIN OUTLET PIPE EXTENDING FROM EXISTING SLOPE UNDERDRAIN ALONG MERLE WAY AND TIE-IN TO EXISTING INLET AS SHOWN ON PLAN. MINIMUM PIPE SLOPE SHALL BE 1-PERCENT. MINIMUM PIPE DEPTH SHALL BE 3' BELOW PAVEMENT. SEE UTILITY TEST HOLE RESULTS FOR INFORMATION REGARDING POTENTIAL CONFLICTS TO AVOID. INSTALL CLEANOUT AT CONNECTION BETWEEN PERFORATED UNDERDRAIN AND OUTLET PIPE. CONTRACTOR SHALL REPLACE CONCRETE CURB AND GUTTER IN-KIND TO MATCH EXISTING CONDITIONS. INSTALL EXPANSION JOINT BETWEEN DRIVEWAY CONCRETE AND NEW CURB AS DIRECTED BY THE ENGINEER.

STABILIZE ALL DISTURBED AREAS WITH 4" TOPSOIL AND SEED. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH TYPE 'A' SOIL STABILIZATION MATTING. ALL OTHER AREAS SHALL BE STABILIZED WITH STRAW MULCH.



* ACTUAL PIPE INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

AS-BUILT

TYPICAL HDPE STORM TRENCH INSTALLATION DETAIL *

NOT TO SCALE

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE 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. 15466, EXPIRATION DATE: JULY 15, 2015

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS 5/15/15
CHIEF, BUREAU OF HIGHWAYS 5/15/2015
CHIEF, TRANSPORTATION AND SPECIAL PROJECTS DIVISION 5/13/15
CHIEF, BUREAU OF ENGINEERING DEPUTY DIRECTOR OF PUBLIC WORKS 5/13/15

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®
72 Loveton Circle Baltimore, Maryland 21152-0949

STATE OF MARYLAND — PAUL FRANKLIN CLEMENT — No. 15466 — PROFESSIONAL ENGINEER

DES: JRB
DRN: JMB
CHK: SAM
DATE: FEB 2015

BY	NO.		DATE

CAPITAL PROJECT NO. D-1124-25

MAP NO. | BLOCK NO.

STORM DRAIN & GRADING PLAN
ABEL STREET - DRAINAGE IMPROVEMENTS
ELECTION DISTRICT 1 — HOWARD COUNTY, MARYLAND

SCALE 1"= 20'
SHEET 2 OF 5

Abel Street

SDMH 1 Top 205.57

INV."IN" (SE) 18"HDPE 201.50
INV."OUT" (SW) 18"HDPE 195.01
INV."IN" (NE) 4"PVC 201.27

18"HDPE 90.45'

24"RCP 124.39'

18"HDPE

INLET 2 Top 213.19

INV."IN" (S) 15"HDPE 206.29
INV."OUT" (NW) 18"HDPE 206.01
INV."IN" (S) 4"PVC 206.29

15"HDPE 174.51'

JMT ABEL 3
(pingcap)

NOTE:
*Dimensions shown between structures are centerline to centerline

SDMH 3 Top 179.88

INV."IN" (NE) 24"RCP 171.02
INV."OUT" (SW) 24"RCP 170.59
INV."IN" (E) 18"HDPE 174.48
INV."IN" (NE) 4"PVC 175.10

9.14'

18"HDPE

SDMH 2 Top 180.46

INV."IN" (NE) 18"HDPE 175.26
INV."OUT" (W) 18"HDPE 175.16

INLET 1 Top 210.14

INV."OUT" (N) 15"HDPE 206.33

JMT ABEL 1
(pingcap)

JMT ABEL 4
(spike)

Merle Way

JMT ABEL 2
(pingcap)

As-Built (Storm Drain)
between Abel St. and Merle Way
September 2015

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

Purpose

To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

Criteria

A. Seeding

1. Specifications

a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.

b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.

c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding.

Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.

d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

Definition

To stabilize disturbed soils with vegetation for up to 6 months.

Purpose

To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

Criteria

1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season.

Temporary Seeding Summary

Hardiness Zone (from Figure B.3): 6B				Fertilizer Rate (10-20-20)	Lime Rate
Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths		
Annual Ryegrass	40	3-1 to 5-15 and 8-1 to 10-15	0.5 in.	436 lb/ac (10lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
Foxtail Millet	30	5-16 to 7-31	0.5 in.		
Pearl Millet	20	5-16 to 7-31	0.5 in.		

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

Definition

To stabilize disturbed soils with permanent vegetation.

Purpose

To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for 6 months or more.

Criteria

A.

Seeding Mixtures

1. General Use

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.

b. Additional planting specifications for exceptional sites such as shorelines, stream banks or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.

c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

d. For areas receiving low maintenance, apply urea form Fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.

Permanent Seeding Summary

Hardiness Zone (from Figure B.3): 6B Seed Mixture (from Table B.3):					FertlizerRate (10-20-20)			Lime Rate
NO.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P_2O_5	K_2O	
1	Switch Grass	10	3-1 to 5-15 and 5-16 to 6-15	0.25-0.5 in.	45 lb/ac (1.0lb/1000 sf)	90 lb/ac (2.0lb/1000 sf)	90 lb/ac (2.0lb/1000 sf)	2 tons /ac (90 lb/1000 sf)
	Creeping Red Fescue	15	3-1 to 5-15 and 5-16 to 6-15	0.25-0.5 in.				
	Wild Indigo	2	3-1 to 5-15 and 5-16 to 6-15	0.25-0.5 in.				

2. Turfgrass Mixtures

a. Areas where turfgrass may be desired include lawns, parks, playgrounds and commercial sites which will receive a medium to high level of maintenance.

b. Select one or more of the species or mixtures listed below based on the site conditions of purpose. Enter selected mixture(s), application rates and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.

i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total maisture by weight.

iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes: Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.

iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes: Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.

Notes:
Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77 "Turfgrass Cultivar Recommendations for Maryland"

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection. and assures a pure genetic line.

c. Ideal Times of Seeding for Turf Grass Mixtures

Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6B)

d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.

e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons or on adverse sites.

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DATE: Wednesday, May 06, 2015 AT 02:48 PM

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

5/13/15
DIRECTOR OF PUBLIC WORKS

5/15/2015
CHIEF, BUREAU OF HIGHWAYS

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DES: JRB	BY	NO.		DATE
DRN: JMB				
CHK: SAM				
DATE: FEB 2015				

CAPITAL PROJECT NO.
D-1124-25

MAP NO. | BLOCK NO.

EROSION AND SEDIMENT CONTROL PLAN
ABEL STREET - DRAINAGE IMPROVEMENTS

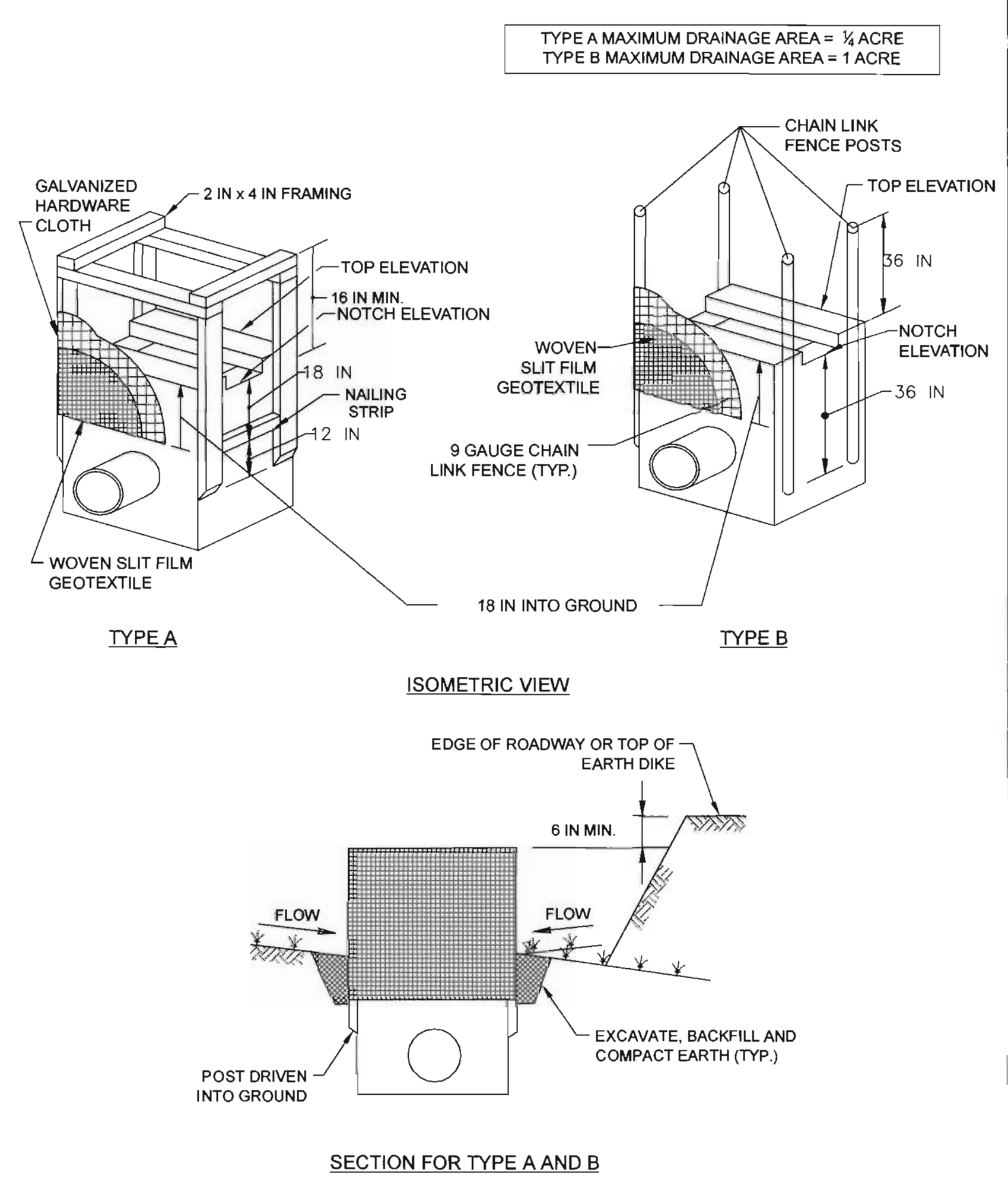
ELECTION DISTRICT 1 | HOWARD COUNTY, MARYLAND

SCALE 1"= 20'

SHEET 3 OF 5

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP

CONSTRUCTION SPECIFICATIONS

1. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2X4 FRAME AS SHOWN. STRETCH ½ INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.

   FOR TYPE B, USE 2 ⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 9 GAUGE OR HEAVIER CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

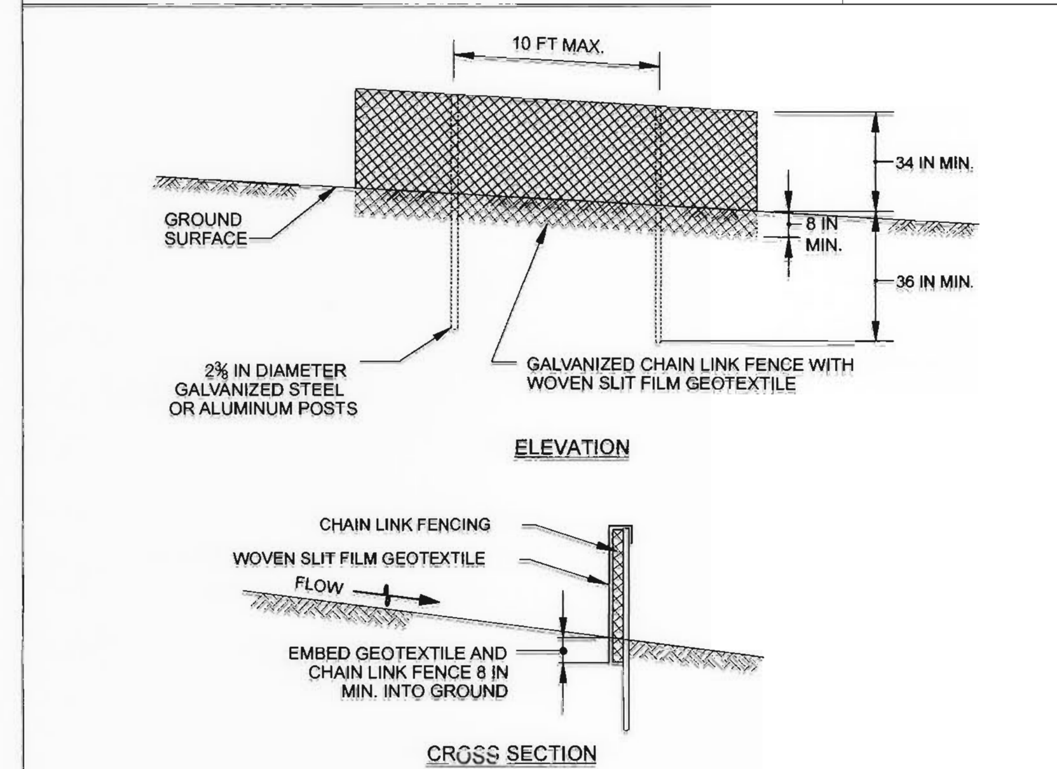
2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL: SSF



CONSTRUCTION SPECIFICATIONS

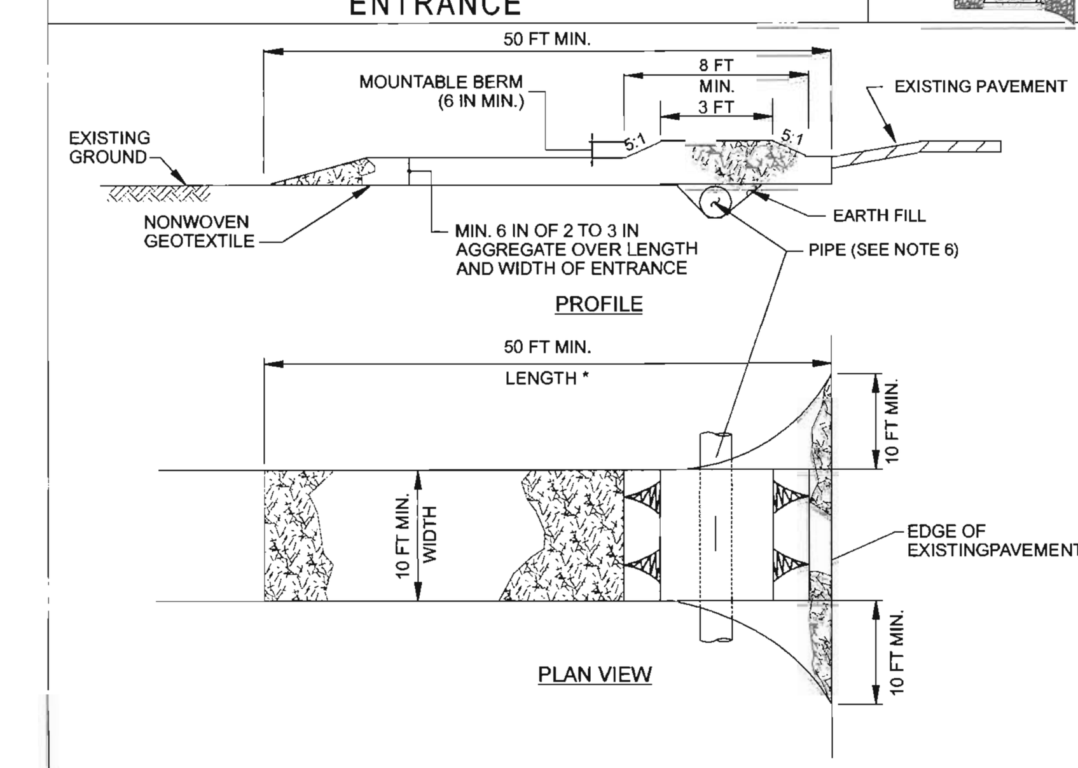
1. INSTALL 2 ⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 ⅜ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE



CONSTRUCTION SPECIFICATIONS

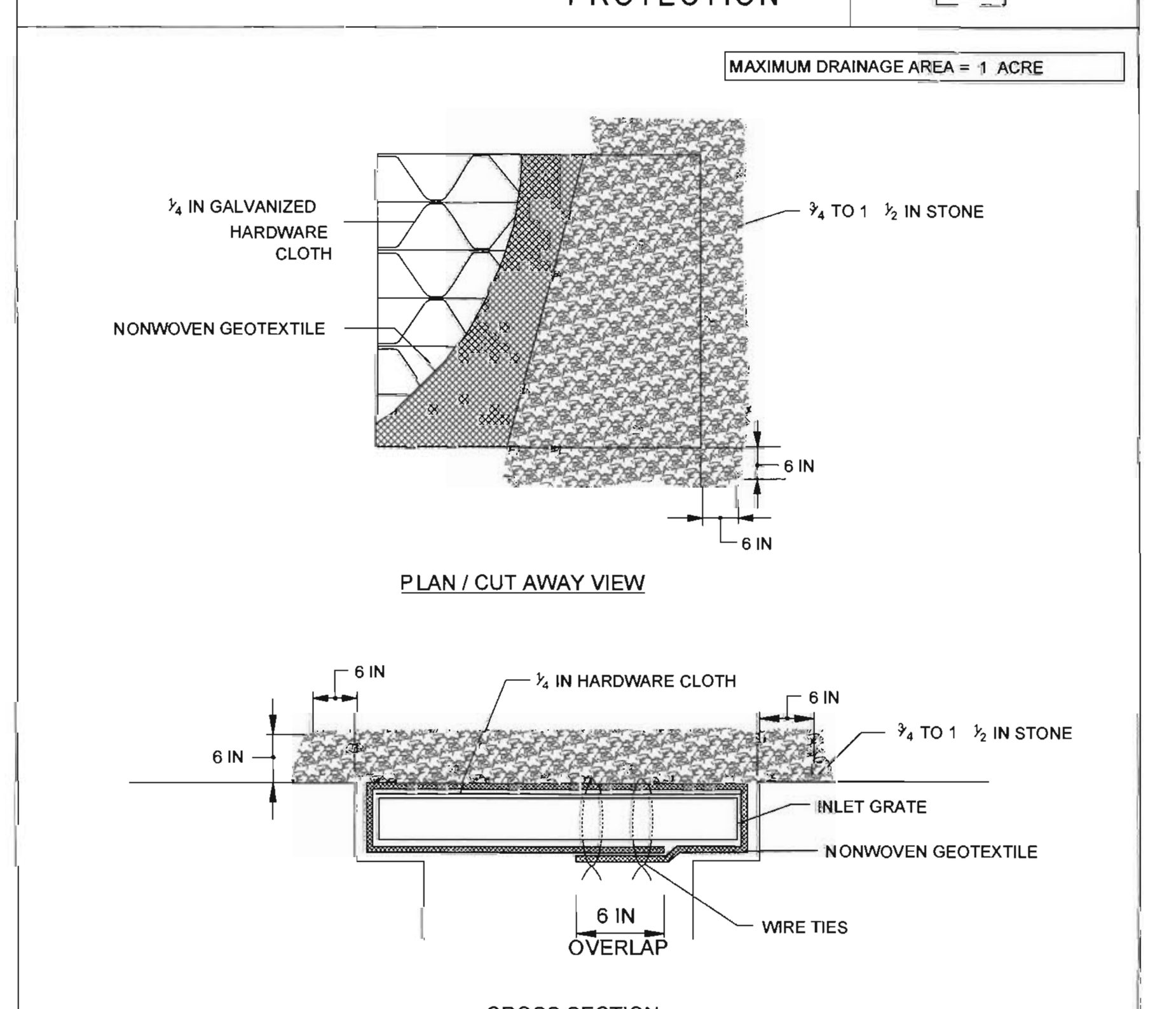
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL: AGIP



CONSTRUCTION SPECIFICATIONS

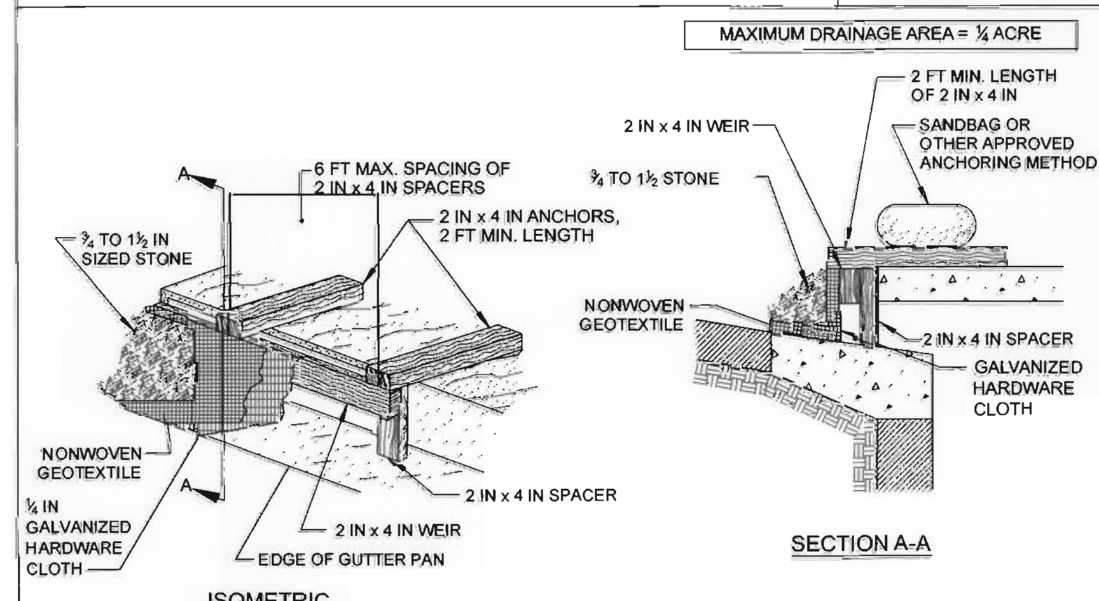
1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
3. PLACE CLEAN ¾ TO 1 ½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-3 CURB INLET PROTECTION

STANDARD SYMBOL: CIP



CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH x 4 INCH LUMBER
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
3. NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
4. ATTACH A CONTINUOUS PIECE OF ¼ INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
5. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
6. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
7. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
8. FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN ¾ TO 1 ½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
9. AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
10. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

*PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE 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. 15466, EXPIRATION DATE: JULY 15, 2015

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

5/15/15 — DIRECTOR OF PUBLIC WORKS
5/15/2015 — CHIEF, BUREAU OF HIGHWAYS
Steve Sharar 5/13/15 — CHIEF, TRANSPORTATION AND SPECIAL PROJECTS DIVISION
5/13/15 — CHIEF, BUREAU OF ENGINEERING, DEPUTY DIRECTOR OF PUBLIC WORKS

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®
72 Loveton Circle Baltimore, Maryland 21152-0949

STATE OF MARYLAND — PAUL FRANKLIN CLEMENT — No. 15466 — PROFESSIONAL ENGINEER
05/07/15

DES: JRB	BY	NO.		DATE
DRN: JMB				
CHK: SAM				
DATE: FEB 2015				

CAPITAL PROJECT NO.
D-1124-25

MAP NO. | BLOCK NO.

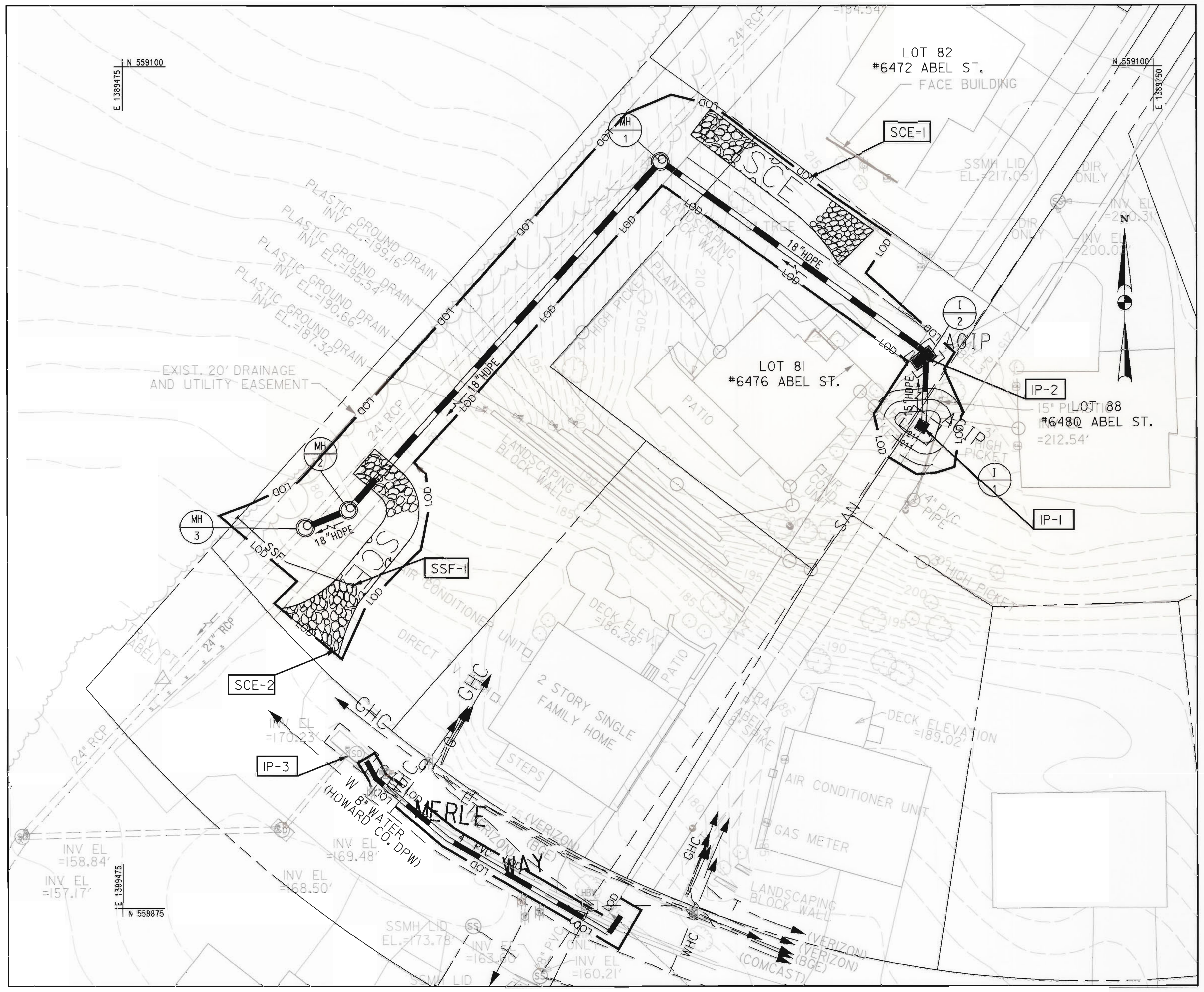
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

ABEL STREET - DRAINAGE IMPROVEMENTS

ELECTION DISTRICT 1 — HOWARD COUNTY, MARYLAND

SCALE 1"= 20'

SHEET 4 OF 5



SUPER SILT FENCE	
SSF-1	37 L.F.

INLET PROTECTION	
IP-1	1 EA, AGIP
IP-2	1 EA, AGIP
IP-3	1 EA, CIP

STABILIZED CONSTRUCTION ENTRANCE	
SCE-1	50 TONS
SCE-2	50 TONS

NOTE:
STOCKPILING WILL NOT BE PERMITTED ON SITE.

NOTE:
TRACKING OF SEDIMENT ONTO ROADS IS NOT PERMITTED. IF SEDIMENT IS TRACKED ONTO ROADS, IT SHOULD BE CLEARED AND HAULED OFF SITE AT THE END OF EACH WORKING DAY.

NOTE:
NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE.

HOWARD SOIL CONSERVATION DISTRICT STANDARD ESC PLAN & REQUIREMENTS

A. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE EXCEPT THAT NECESSARY FOR INSTALLATION OF THE CONTROLS.

B. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE CRITERIA CONTAINED IN THE MOST CURRENT VERSION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

C. ALL CLEARING AND GRADING SHALL BE COMPLETED IN THE FOLLOWING SEQUENCE:

1. LIMIT INITIAL CLEARING AND GRUBBING FOR THE INSTALLATION OF THE CONSTRUCTION ENTRANCE, PERIMETER CONTROLS, AND ANY REMAINING CONTROLS.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCES, PERIMETER SILT FENCE, AND ANY OTHER SEDIMENT CONTROLS.
3. CLEAR, GRUB, AND GRADE THE REMAINDER OF THE SITE AS SPECIFIED BY THE LIMITS OF DISTURBANCE SHOWN ON THE PLAN.
4. PROVIDE TEMPORARY STABILIZATION OF ANY AREA THAT WILL NOT BE ACTIVELY GRADED WITHIN THREE (3) DAYS.
5. CONSTRUCT ANY STRUCTURES AND UTILITIES.
6. PROVIDE FINAL GRADING AND STABILIZATION ACCORDING TO THE SEEDING OR SODDING SPECIFICATIONS (MINIMUM STABILIZATION BY SEEDING AND MULCHING).
7. AFTER THE SITE HAS BEEN STABILIZED WITH ADEQUATE VEGETATION, AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL PRACTICES AND STABILIZE REMAINING DISTURBED AREAS.

D. ALL EROSION AND SEDIMENT CONTROL DEVICES REQUIRE CONTINUAL MAINTENANCE. ANY CONTROLS THAT ARE DAMAGED OR DISTURBED SHALL BE RESTORED OR REPAIRED BEFORE THE END OF EACH DAY.

E. DEVELOPED ACTIVITIES SHALL NOT IMPAIR ANY DRAINAGE, CREATE AN EROSION HAZARD, OR CREATE A SOURCE OF SEDIMENT TO ANY ADJACENT WATERCOURSE, WETLAND, OR PROPERTY.

F. ANY PUMPING OF WATER MUST BE FILTERED AND DONE ACCORDING TO THE CRITERIA CONTAINED IN THE MOST CURRENT VERSION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

G. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS ON THE SURFACE AREAS OF ALL SEDIMENT CONTROLS, STOCKPILES, AND PERIMETER SLOPES; AND SEVEN (7) DAYS FOR ALL OTHER DISTURBED AREAS ON THE SITE NOT BEING ACTIVELY GRADED.

SITE ANALYSIS:

TOTAL AREA OF SITE:	23,387	SQUARE FEET
TOTAL AREA OF DISTURBANCE:	6,300	SQUARE FEET
TOTAL VOLUME OF EXCAVATION OR FILL:	7	CUBIC YARDS
PIPE TRENCH EXCAVATION:	197	CUBIC YARDS

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EROSION AND SEDIMENT CONTROL PLAN

ABEL STREET - DRAINAGE IMPROVEMENTS

ELECTION DISTRICT 1 — HOWARD COUNTY, MARYLAND

SCALE 1"= 20'

SHEET 5 OF 5

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