

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
CENTRAL AVENUE SIDEWALK

STA. 25+50 TO STA. 37+00

C. I. P. PROJECT NO. 506747

INDEX OF SHEETS

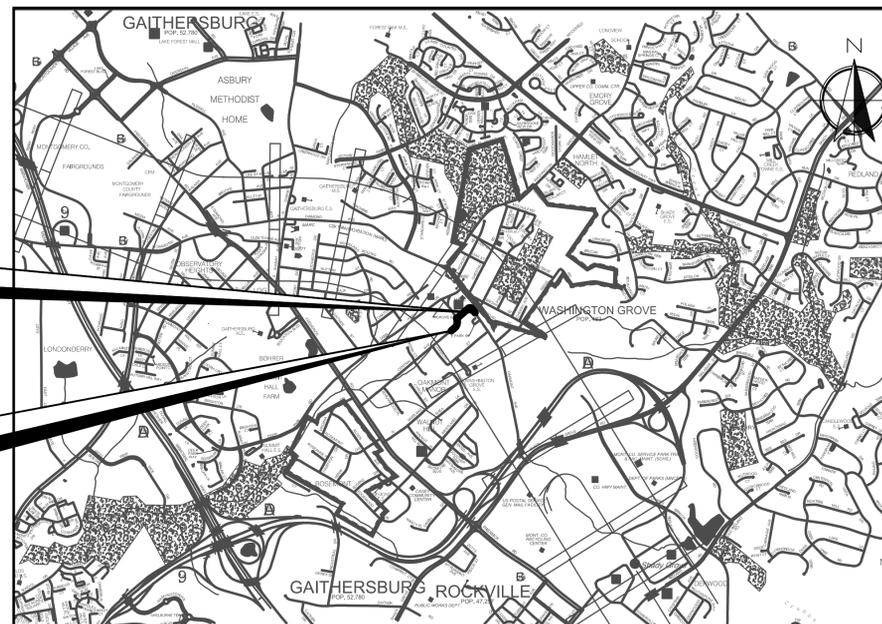
SHEET NO.	SHEET DESCRIPTION
TITLE	TITLE SHEET
TS-01	TYPICAL SECTIONS & DETAILS
PS-01 TO PS-03	ROADWAY PLAN SHEETS
DD-01 TO DD-02	DRAINAGE PROFILE AND DETAILS
ES-01	E&SC GENERAL NOTES
LD-01 TO LD-02	LANDSCAPING PLANS & DETAILS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, MONTGOMERY COUNTY, AND THE WASHINGTON SUBURBAN SANITARY COMMISSION.
- THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.
- CLEARING IS TO BE LIMITED TO THE LIMIT OF DISTURBANCE (LOD) AS SHOWN ON THE PLANS.
- ALL DISTURBED AREAS TO BE TEMPORARILY SEEDED AND MULCHED PER THE STANDARD EROSION AND SEDIMENT CONTROL NOTES AND SHALL BE PERMANENTLY SODDED.
- PRIOR TO VEGETATIVE STABILIZATION ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL".
- THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060
- HORIZONTAL DATUM: NAD83/93, VERTICAL DATUM: NAVD88

LIMIT OF WORK
C.I.P. PR. # 506747
CENTRAL AVE. SIDEWALKS
STATION 37+00

LIMIT OF WORK
C.I.P. PR. # 506747
CENTRAL AVE. SIDEWALKS
STATION 25+50



VICINITY MAP
SCALE : 1" = 2000'

MONTGOMERY COUNTY DEPARTMENT OF
TRANSPORTATION – MAINTENANCE CERTIFICATION

I HEREBY CERTIFY THAT THE DEPARTMENT OF TRANSPORTATION WILL ASSUME MAINTENANCE RESPONSIBILITIES FOR ALL STORMWATER MANAGEMENT FACILITIES AS LISTED AND SHOWN, HEREON, IN ACCORDANCE WITH THE MEMORANDUM OF UNDERSTANDING BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED SEPTEMBER 1, 1986. IF, FOR ANY REASON, FUTURE IMPROVEMENTS TO THE ROADWAY ARE PLANNED THAT WOULD IMPACT ANY OF THE STORMWATER MANAGEMENT FACILITIES INCLUDED HEREIN, THIS DEPARTMENT WILL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DURING THE PLANNING OR EARLY DESIGN STAGE OF SUCH IMPROVEMENTS.

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90., 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF AND TRANSPORTATION "DRAINAGE DESIGN" DATED NOVEMBER, 2013 (REV. JUNE 10,2014)

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE XXX CUBIC YARDS OF EXCAVATION AND XXX CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XX,XXXX SQUARE FEET.

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. 26238, EXPIRATION DATE: 08/17/2015

DATE _____ ROBERT J. HUDSON, P.E.

DATE _____ BRUCE E. JOHNSTON, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

OWNER'S / DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DATE _____ BRUCE E. JOHNSTON, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

RECOMMENDED FOR APPROVAL

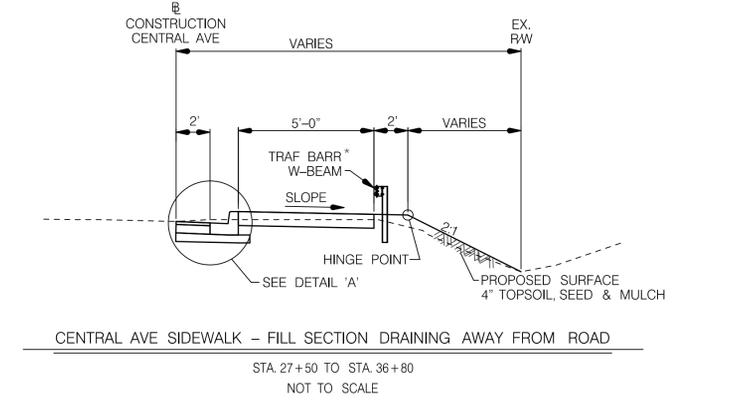
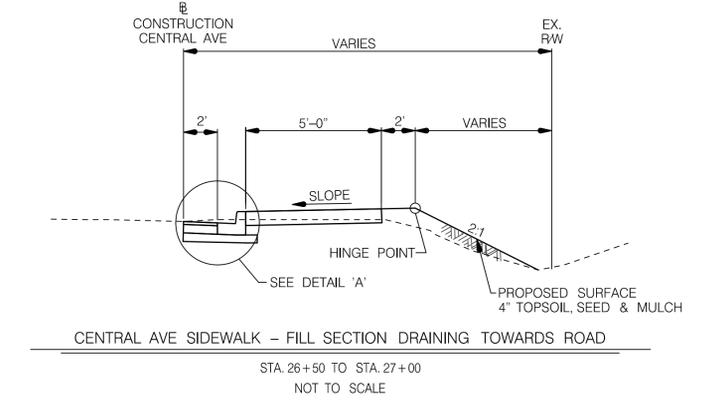
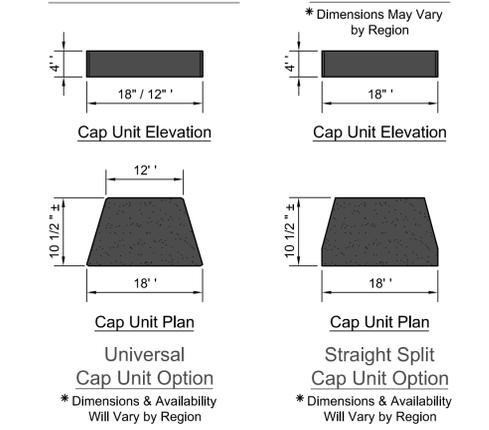
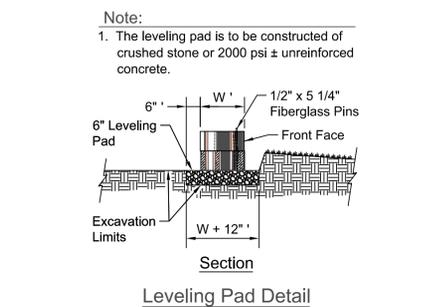
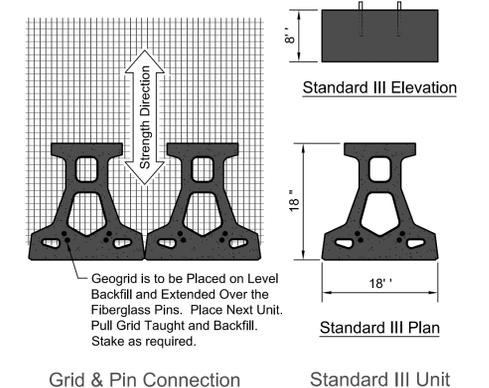
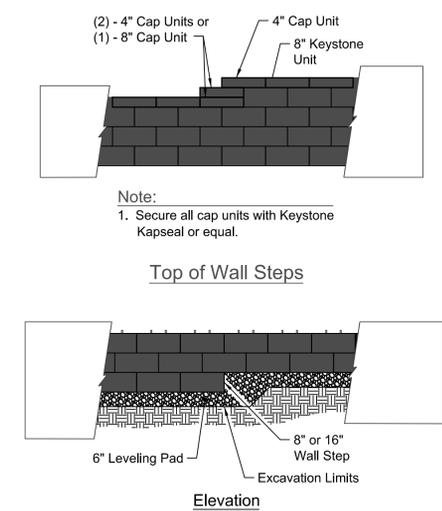
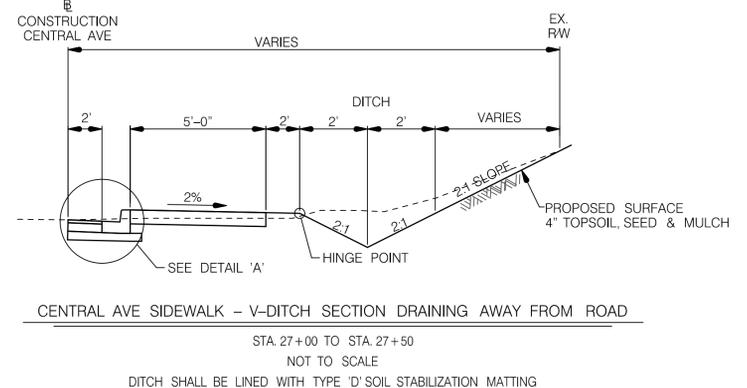
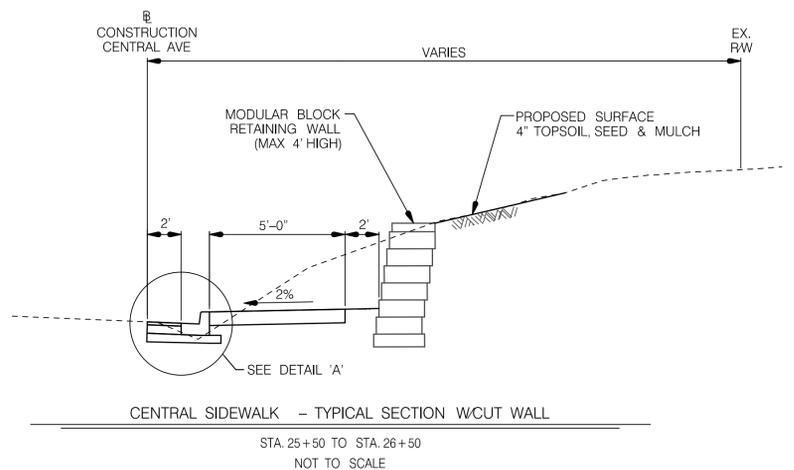
CHIEF, DESIGN SECTION

APPROVED

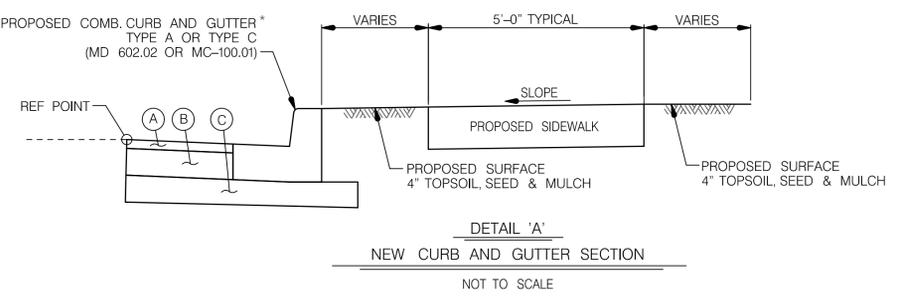
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DR., 4TH FLOOR
GAITHERSBURG, MD 20878
240-777-7224

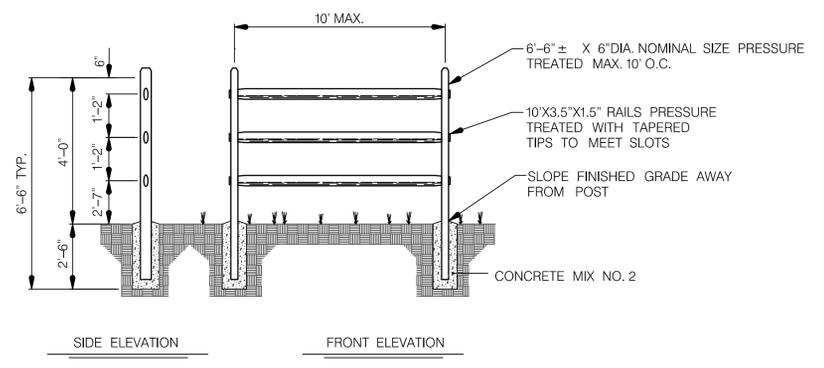
JUNE 1, 2014



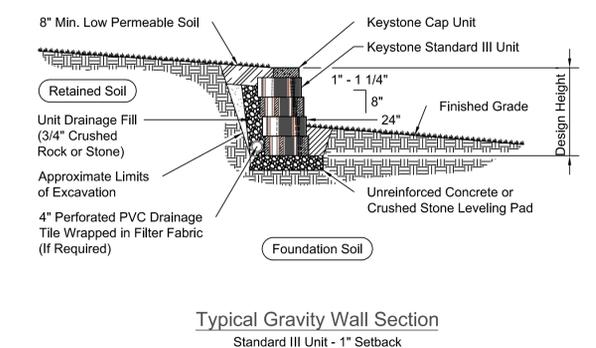
* INSTALL TRAFFIC BARRIER W-BEAM WITH TYPE G END SECTIONS FROM:
 STA. 28+00 TO STA. 29+62
 STA. 30+99 TO STA. 32+32



(A) 2\"/>



SPLIT RAIL FENCE DETAIL
 STA. XX+XX TO STA. XX+XX, XX RT.
 NOT TO SCALE

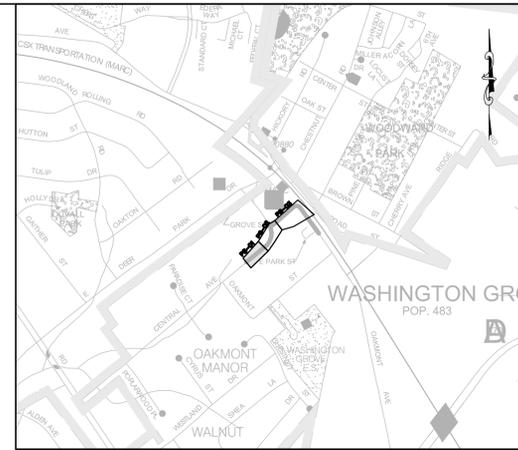


		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878		TYPICAL SECTIONS AND DETAILS	
RECOMMENDED FOR APPROVAL Chief, Design Section _____ Date _____ APPROVED Chief, Division of Engineering Services _____ Date _____		DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL		CENTRAL AVENUE SIDEWALKS SCALE AS SHOWN 12/2014	
Designed by: MJB Drawn by: JWL Checked by: BMD		Project No.: C.I.P. PR. # 506747 SHEET TS-01 of 01		PLOTTED: 8/25/14 FILE: 5/14/14	

WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
 410.494.9093 Tel / 410.667.0925 Fax
 www.WallaceMontgomery.com A Limited Liability Partnership

June 1, 2014

BASELINE STAKEOUTS FOR CENTRAL AVENUE/ OAKMONT AVENUE					
POINT	STATION	NORTHING	EASTING	LENGTH	BEARING
P.O.B.	25+50.00	534722.3517	1261234.4852	113.6	N 50°47'06.3" E
P.C.	26+63.55	534794.1443	1261322.4652		

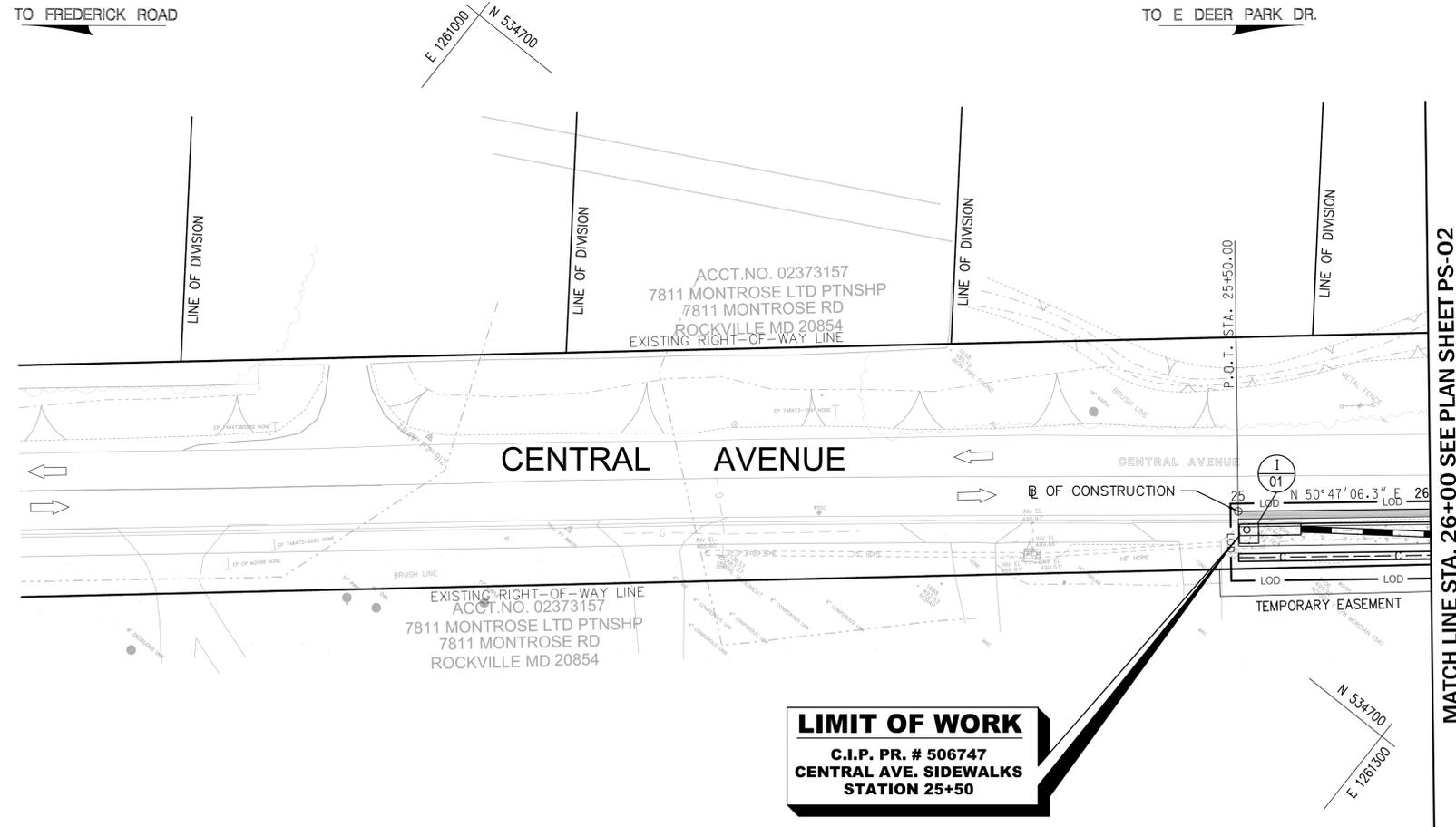


LOCATION MAP
SCALE 1"=1000'

PERVIOUS PORTLAND CEMENT CONCRETE SIDEWALK, 4" DEPTH
28 SY CENTRAL AVE.- STA. 25+50 TO STA. 26+00, RT

COMBINATION CURB & GUTTER TYPE C (MC 101.01)
50 LF CENTRAL AVE.-STA. 25+50 TO STA. 26+00, RT

GRAVITY INTERLOCKING CONCRETE BLOCK RETAINING WALL
150 SF CENTRAL AVE.- STA. 25+50 TO STA. 26+00, RT



PLAN
SCALE 1"=20'

NOTES:

- ALL EXPOSED EARTH & DISTURBED AREAS SHALL BE STABILIZED WITH SEED & MULCH OR SOIL STABILIZATION MATTING AT THE END OF EACH WORK DAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS RUNOFF CAN BE DIRECTED TO AN APPROVED EROSION & SEDIMENT CONTROL DEVICE.
- DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH STD. TCP. 102.02

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GIATHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

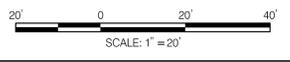
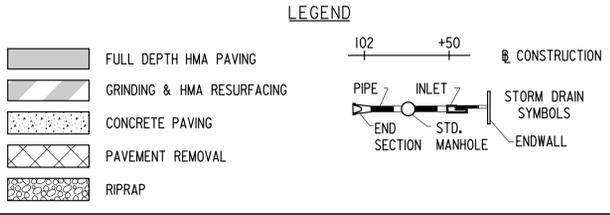
Chief, Division of Engineering Services

Designed by: MJB Drawn by: JWJ Checked by: BMD

PLAN SHEET PS-01
STA. 25+50 TO STA. 26+00
CENTRAL AVENUE
SIDEWALKS

SCALE 1"= 20' 12/2014

Project No.: C.I.P. PR. # 506747 SHEET PS-01 of 03



DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

PLOTTED: Tuesday, January 06, 2015 AT 08:31 AM
FILE: M:\PROJ\214013\0001\03\Roadway Design\Cadd\pHD-P001_Central.dgn

JUNE 11, 2014

PERVIOUS PORTLAND CEMENT CONCRETE SIDEWALK, 4" DEPTH
 250 SF CENTRAL AVE.-STA. 26+00 TO STA. 30+50, RT
 56 SF OAKMONT AVE.- STA. 30+50 TO STA. 31+50, RT

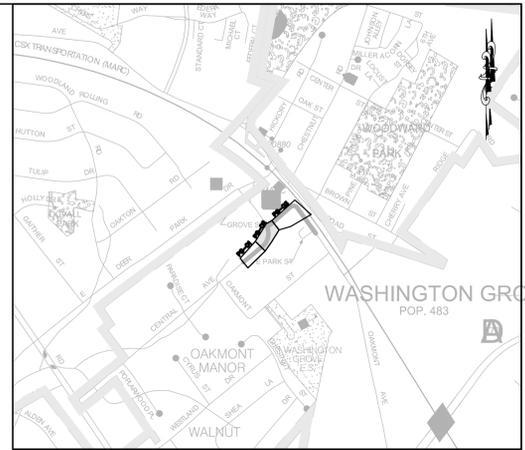
COMBINATION CURB & GUTTER TYPE C (MC 101.01)
 450 LF CENTRAL AVE.-STA. 26+00 TO STA. 30+50, RT
 100 LF OAKMONT AVE.- STA. 30+50 TO STA. 31+50, RT

GRAVITY INTERLOCKING CONCRETE BLOCK RETAINING WALL
 150 SF CENTRAL AVE. STA 26+00 TO STA 26+50

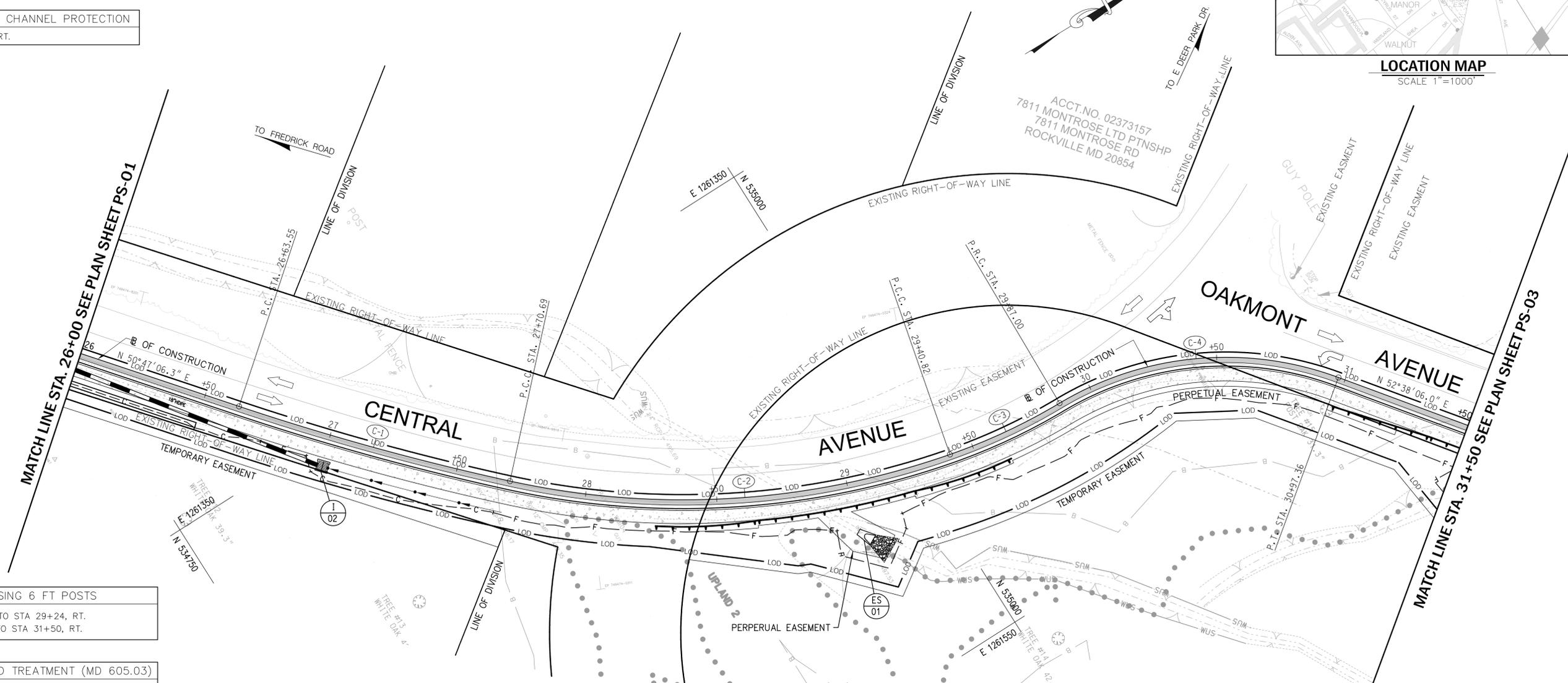
CL I RIPRAP FOR SLOPE AND CHANNEL PROTECTION
 8 TONS CENTRAL AVE. STA 29+08, RT.

BASELINE STAKEOUTS FOR CENTRAL AVENUE/ OAKMONT AVENUE					
POINT	STATION	NORTHING	EASTING	LENGTH	BEARING
P.C.	26+63.55	534794.1443	1261322.4652	53.6	N 50°47'06.7243" E
P.I.	27+17.17	534828.0431	1261364.0073	53.5	N 44°42'05.6948" E
P.C.C.	27+70.69	534866.1535	1261401.7223	87.3	
P.I.	28+57.97	534928.1929	1261463.1193	82.9	N 13°09'16.8684" E
P.C.C.	29+40.82	535013.1861	126482.9834	23.2	N 01°38'43.3306" E
P.I.	29+63.99	535035.7456	1261488.2558	23.0	
P.R.C.	29+87.00	535058.9036	1261488.9211	59.1	
P.I.	30+46.13	535118.0104	1261490.6189		

CURVE TABLE: CENTRAL AVE.							
CURVE	DELTA	Dc	RADIUS	TANG	LENG	CHORD	EXTERN
C1	6°05'01.03"	5'40'42.50"	1009.00	53.62	106.14	107.08	1.42
C2	31°32'48.83"	18°32'32.36"	309.00	87.28	170.13	167.99	12.09
C3	11°30'33.54"	24°55'23.67"	229.89	23.17	46.18	46.10	1.16



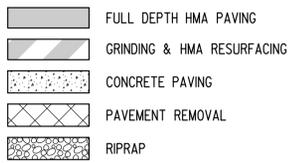
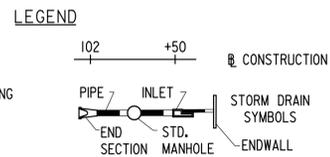
LOCATION MAP
SCALE 1"=1000'



TRAFFIC BARRIER W-BEAM USING 6 FT POSTS
 60 LF CENTRAL AVE. STA 28+65 TO STA 29+24, RT.
 12 LF CENTRAL AVE. STA 31+38 TO STA 31+50, RT.

TYPE G TRAFFIC BARRIER END TREATMENT (MD 605.03)
 1 EA CENTRAL AVE. STA 28+27, RT.
 1 EA CENTRAL AVE. STA 29+62, RT.
 1 EA CENTRAL AVE. STA 30+99, RT.

REMOVE AND DISPOSE EXISTING TRAFFIC BARRIER
 139 LF CENTRAL AVE. STA 28+27 TO 29+62, RT.



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DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

NOTES:

- ALL EXPOSED EARTH & DISTURBED AREAS SHALL BE STABILIZED WITH SEED & MULCH OR SOIL STABILIZATION MATTING AT THE END OF EACH WORK DAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS RUNOFF CAN BE DIRECTED TO AN APPROVED EROSION & SEDIMENT CONTROL DEVICE.
- DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH STD. TCP. 102.02
- FOR OAKMONT AVE BASELINE DATA, SEE SHEET 6 OF 6

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GIATHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: MJB Drawn by: JWJ Checked by: BMD

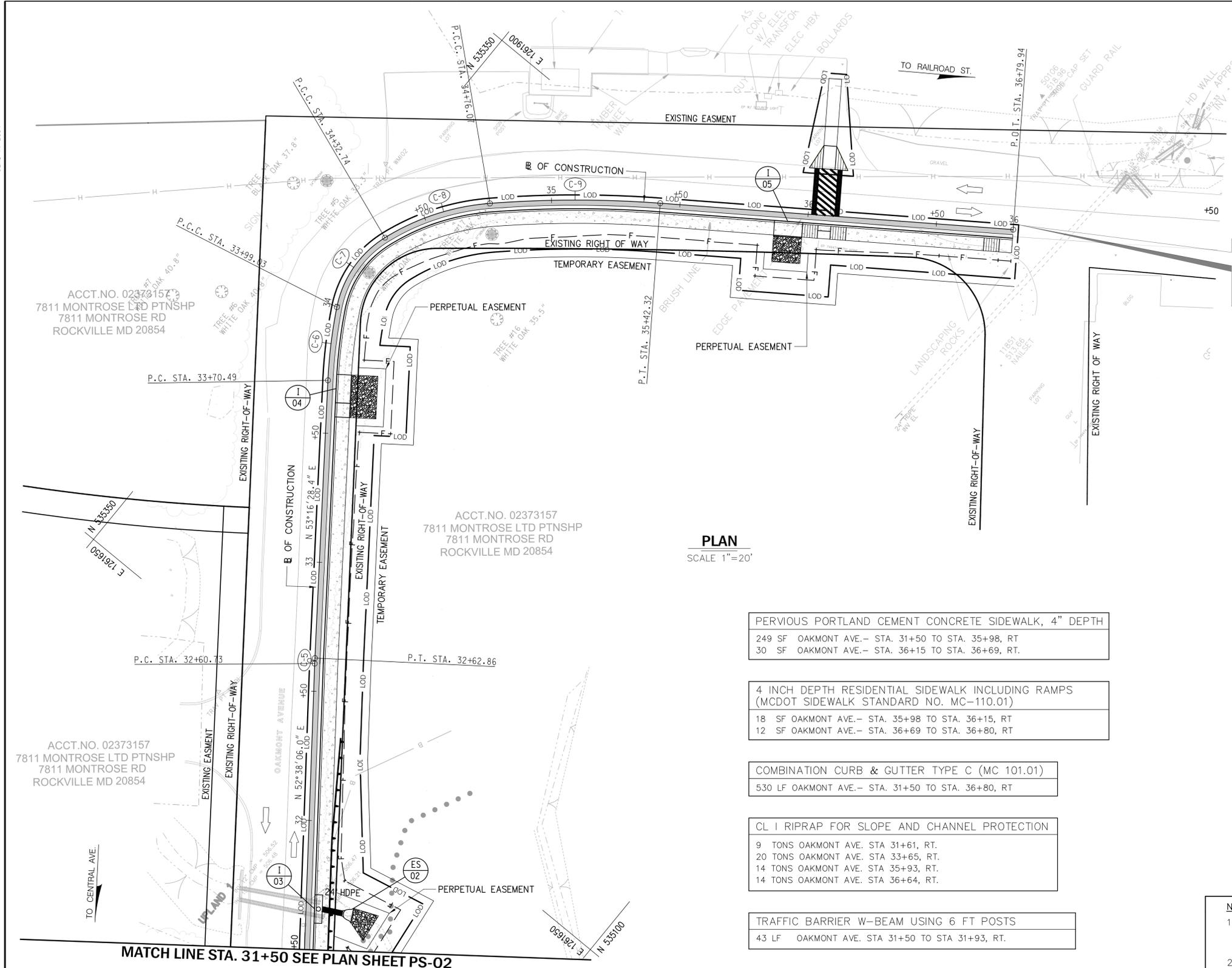
PLAN SHEET PS-02
STA. 26+00 TO STA. 31+50
CENTRAL AVENUE
SIDEWALKS

SCALE 1"= 20' 12/2014

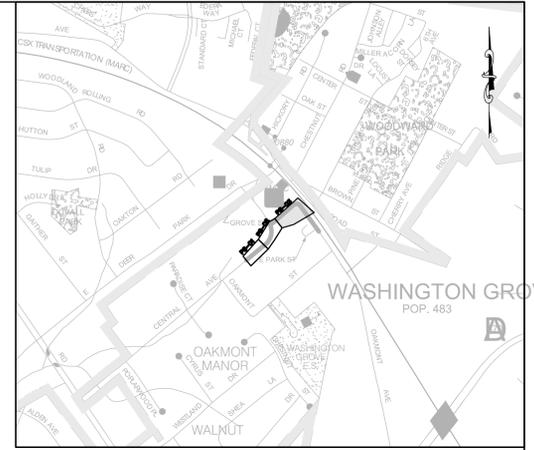
Project No.: C.I.P. PR. # 506747 SHEET PS-02 of 03

PLOTTED Tuesday, January 06, 2015 AT 08:31 AM
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JUNE 11, 2014



LIMIT OF WORK
C.I.P. PR. # 506747
CENTRAL AVE. SIDEWALKS
STA. 37+00



LOCATION MAP
 SCALE 1"=1000'

PLAN
 SCALE 1"=20'

BASILINE STAKEOUTS FOR CENTRAL AVENUE/OAKMONT AVENUE

POINT	STATION	NORTHING	EASTING	LENGTH	BEARING
P.I.	30+46.13	535118.0104	1261490.6189	51.2	N 01°38'43.3306" E
P.T.	30+97.36	535153.8965	1261537.6155	163.4	N 52°38'05.9972" E
P.C.	32+60.73	535253.0484	1261667.4650	1.1	N 53°16'28.3722" E
P.I.	32+61.80	535253.0484	1261668.3123	1.1	N 53°16'28.3722" E
P.T.	32+62.86	535254.3328	1261669.1667	107.6	N 53°16'28.3722" E
P.C.	33+70.49	535318.6893	1261755.4276	14.3	N 61°50'08.0750" E
P.I.	33+84.78	535327.238	1261766.8860	14.3	N 61°50'08.0750" E
P.C.C.	33+99.03	535333.9858	1261779.4893	17.9	N 61°50'08.0750" E
P.I.	34+16.90	535342.4223	1261795.2468	15.8	S 71°03'18.5362" E
P.C.C.	34+32.74	535336.6194	1261812.1524	22.1	S 71°03'18.5362" E
P.I.	34+54.82	535329.4486	1261833.0434	21.3	S 43°46'09.4900" E
P.C.C.	34+76.07	535313.4986	1261848.3225	33.2	S 43°46'09.4900" E
P.I.	35+09.26	535289.5332	1261871.2798	33.1	S 35°09'43.3339" E
P.T.	35+42.32	535262.4019	1261890.3920	137.6	S 35°09'43.3339" E
P.O.T.	36+79.94	535149.8954	1261969.6449		

CURVE TABLE: CENTRAL AVE.

CURVE	DELTA	Dc	RADIUS	TANG	LENG	CHORD	EXTERN
C5	0°38'22.38"	29°59'52.06"	191.00	1.07	2.13	2.13	0.003
C6	8°33'39.70"	29°59'52.06"	191.00	14.30	28.54	28.51	0.53
C7	47°06'33.39"	139°44'45.30"	41.00	23.17	17.87	32.77	3.73
C8	27°17'09.05"	62°57'44.70"	91.00	22.09	43.34	42.93	2.64
C9	8°36'26.16"	12°59'32.07"	441.00	33.19	66.25	66.19	1.25

PERVIOUS PORTLAND CEMENT CONCRETE SIDEWALK, 4" DEPTH
 249 SF OAKMONT AVE.- STA. 31+50 TO STA. 35+98, RT
 30 SF OAKMONT AVE.- STA. 36+15 TO STA. 36+69, RT.

4 INCH DEPTH RESIDENTIAL SIDEWALK INCLUDING RAMPS (MCDOT SIDEWALK STANDARD NO. MC-110.01)
 18 SF OAKMONT AVE.- STA. 35+98 TO STA. 36+15, RT
 12 SF OAKMONT AVE.- STA. 36+69 TO STA. 36+80, RT

COMBINATION CURB & GUTTER TYPE C (MC 101.01)
 530 LF OAKMONT AVE.- STA. 31+50 TO STA. 36+80, RT

CL I RIPRAP FOR SLOPE AND CHANNEL PROTECTION
 9 TONS OAKMONT AVE. STA 31+61, RT.
 20 TONS OAKMONT AVE. STA 33+65, RT.
 14 TONS OAKMONT AVE. STA 35+93, RT.
 14 TONS OAKMONT AVE. STA 36+64, RT.

TRAFFIC BARRIER W-BEAM USING 6 FT POSTS
 43 LF OAKMONT AVE. STA 31+50 TO STA 31+93, RT.

TYPE G TRAFFIC BARRIER END TREATMENT (MD 605.03)
 1 EA OAKMONT AVE. STA 32+32, RT.

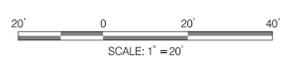
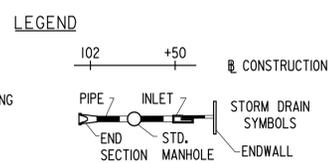
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 2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH STD. TCP. 102.02

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GIATHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
 Chief, Design Section _____ Date _____
 APPROVED
 Chief, Division of Engineering Services _____ Date _____
 Designed by: MJB Drawn by: JWJ Checked by: BMD

PLAN SHEET PS-03
STA. 31+50 TO STA. 37+00
CENTRAL AVENUE
SIDEWALKS
 SCALE 1"= 20' 12/2014
 Project No.: C.I.P. PR. # 506747 SHEET PS-03 of 03

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 www.WallaceMontgomery.com A Limited Liability Partnership



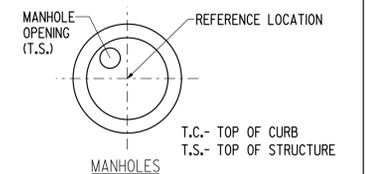
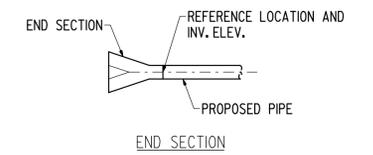
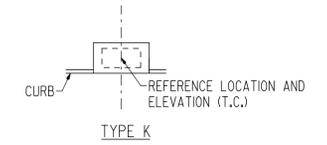
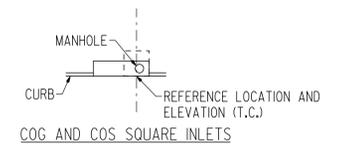
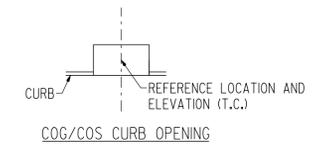
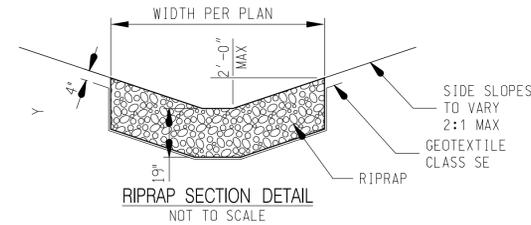
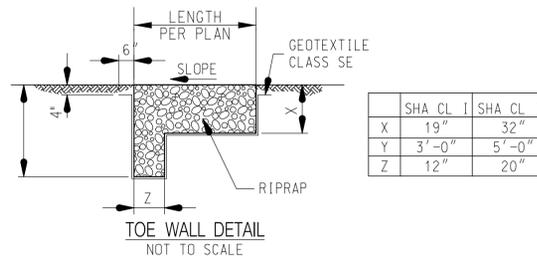
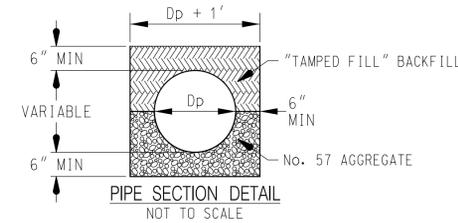
DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

June 1, 2014

STRUCTURE SCHEDULE									
PLAN SHEET	NUMBER	STATION	OFFSET	TYPE	ELEVATION		STANDARD	VERTICAL DEPTH	COMMENTS
					TOP	INV.			
PS-01	I-01	25+60.62	3.32' RT.	STANDARD 10' COG INLET	493.13	491.10	MD 374.51	N/A	N/A
PS-02	I-02	27+00.44	10.05' RT.	STANDARD SINGLE TYPE K INLET	497.50	493.97	MD 374.41	N/A	N/A
PS-03	I-03	31+65.85	3.33' RT.	STANDARD 10' COS INLET	509.79	506.08	MD 374.61	N/A	N/A
PS-03	I-04	33+67.45	3.33' RT.	PRECAST 15' OPENING	512.83	511.76	MD 374.68	N/A	CURB OPENING 6' WIDTH
PS-03	I-05	35+92.65	4.00' RT.	PRECAST 10' OPENING	515.61	514.54	MD 374.68	N/A	CURB OPENING 6' WIDTH
PS-02	ES-01	28+99.62	18.77' RT.	STANDARD CONCRETE END SECTION	N/A	506.08	MD 368.01	N/A	N/A
PS-01	ES-02	31+64.50	14.21' RT.	STANDARD CONCRETE END SECTION	N/A	497.53	MD 368.01	N/A	N/A

PIPE SCHEDULE				
FROM	TO	SIZE	TYPE	LENGTH
I-02	I-01	15"	DUAL WALL HDPE	132'
I-03	ES-01	18"	DUAL WALL HDPE	9'



DRAINAGE STRUCTURE LOCATION REFERENCES
NOT TO SCALE

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
www.WallaceMontgomery.com A Limited Liability Partnership

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GIATHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
Chief, Design Section _____ Date _____
APPROVED
Chief, Division of Engineering Services _____ Date _____

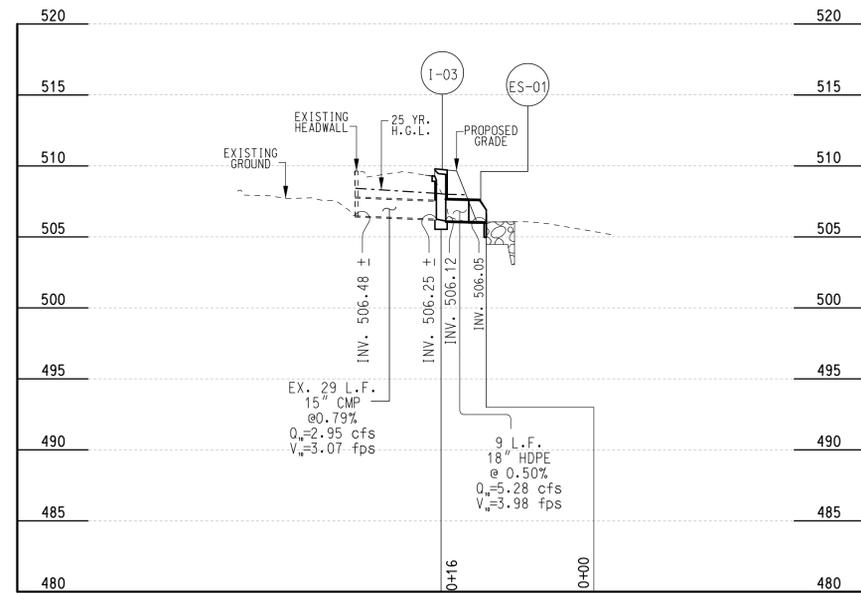
Designed by : MJB Drawn by : JWL Checked by : BMD

**DRAINAGE PROFILE
AND SCHEDULES
CENTRAL AVENUE
SIDEWALKS**

SCALE: NTS 12/2014

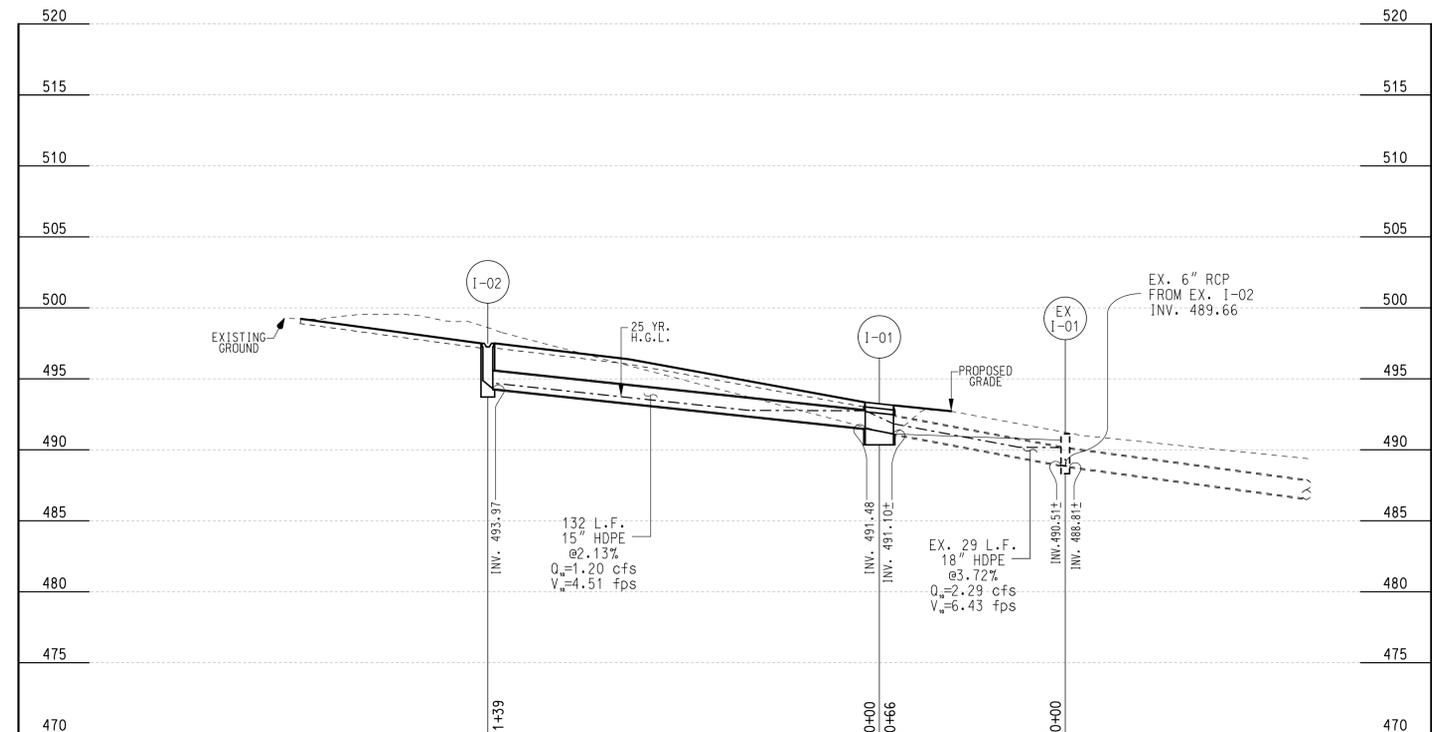
Project No. : C.I.P. PR. # 506747 SHEET DD-01 of 02

June 1, 2014



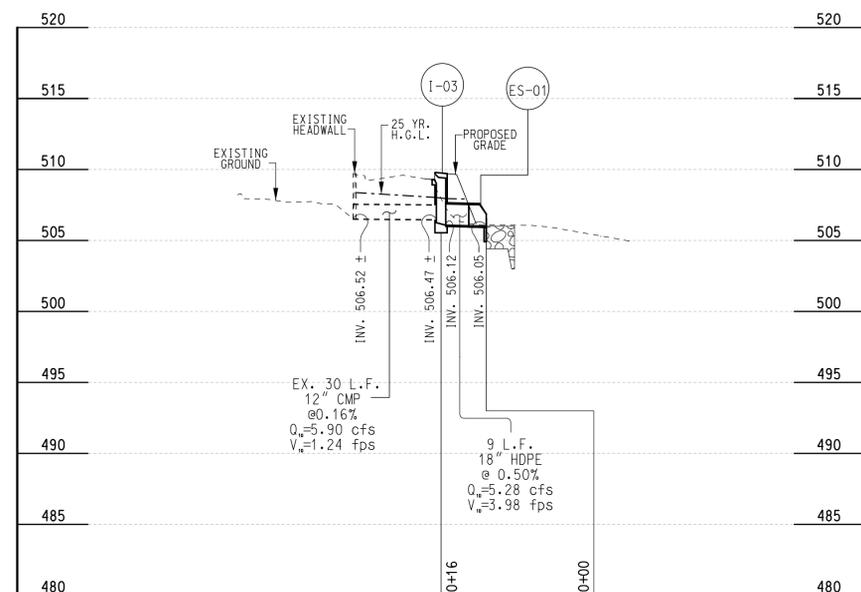
I-03 TO ES-01

SCALE: HOR. 1"=20'
VERT. 1"=4'



EX I-01 TO I-02

SCALE: HOR. 1"=20'
VERT. 1"=4'



I-03 TO ES-01

SCALE: HOR. 1"=20'
VERT. 1"=4'



DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GIATHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: MJB Drawn by: JWL Checked by: BMD

**DRAINAGE PROFILE
AND SECHEDULES
CENTRAL AVENUE
SIDEWALKS**

SCALE: SCALE AS SHOWN 12/2014

Project No.: C.I.P. PR. # 506747 SHEET DD-02 of 02

PLOTTED: Tuesday, January 06, 2015 AT 08:32 AM
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EROSION AND SEDIMENT CONTROL – GENERAL NOTES

1. MDE NOTIFICATION

IF AN EROSION AND SEDIMENT CONTROL PERMIT IS ISSUED FOR THIS PROJECT, UPON APPROVAL, NOTIFY MDE IN WRITING AND/OR BY TELEPHONE AT (410) 537-3510 AT THE FOLLOWING POINTS:

- PRE-CONSTRUCTION MEETING
- EROSION AND SEDIMENT CONTROL MEETING (MINIMUM 7 WORKING DAYS PRIOR TO COMMENCING EARTH DISTURBING ACTIVITIES)
- FOLLOWING INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES
- DURING INSTALLATION OF MAJOR SEDIMENT CONTROL BASINS/TRAPS
- PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S)
- PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES
- PRIOR TO FINAL ACCEPTANCE BY SHA

2. STANDARDS AND SPECIFICATIONS

CONSTRUCT THIS PLAN IN ACCORDANCE TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II AND THE MARYLAND DEPARTMENT OF ENVIRONMENT EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT REGULATIONS, AND ALL REVISIONS THERE OF, AND AS SPECIFIED. KEEP A COPY OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL ON THE SITE AT ALL TIMES.

3. INGRESS / EGRESS CONTROLS

PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ON PUBLIC ROADS. MECHANICALLY REMOVE ALL MATERIALS DEPOSITED ON PUBLIC ROADS IMMEDIATELY. THE FLUSHING OF ROAD SURFACES IS PROHIBITED.

TYPICALLY, CONTROL ALL INGRESS AND EGRESS POINTS THROUGH THE USE OF A "STABILIZED CONSTRUCTION ENTRANCE."

4. INSPECTION

INSPECT DAILY ALL EROSION AND SEDIMENT CONTROL MEASURES AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION.

5. SHUTDOWNS AND OR PENALTIES

TOTAL COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS EXPECTED AT ALL TIMES. IN CASES WHERE THE CONTRACTOR IS FOUND TO BE IN NON-COMPLIANCE SHA MAY TAKE STEPS TO IMPOSE SELECTED OR TOTAL SHUTDOWNS AND IMPOSE LIQUIDATED DAMAGES FOR NON-COMPLIANCE.

THE DISTRICT ENGINEER CAN IMPOSE A TOTAL OR PARTIAL SHUTDOWN IF THE PROJECT MAY ADVERSELY IMPACT THE WATERS OF THE STATE.

6. RECORD KEEPING

THE PROJECT'S APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, APPROVED CHANGE REQUESTS, DAILY LOG BOOKS AND TEST REPORTS WILL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MDE.

7. DEWATERING PRACTICES

DEWATERING PRACTICES ARE CONSIDERED TO BE ELECTIVE IN NATURE. LOCATE AND OPERATE DEWATERING PRACTICES IN A MANNER THAT DOES NOT DISCHARGE SEDIMENT INTO ANY WATERWAY. NO VISIBLE CHANGES TO STREAM CLARITY ARE PERMITTED.

8. EROSION AND SEDIMENT CONTROL EXCAVATION

PLACE SILT REMOVED FROM CONTROL DEVICES IN AN APPROVED WASTE SITE EITHER ON OR OFF THE PROJECT. MATERIAL STORED ON SITE MAY BE REUSED ONCE IT IS DRIED AND IF IT MEETS SHA REQUIREMENTS FOR EMBANKMENT OR ANY UNSPECIFIED NEED.

9. OFF-SITE UTILITY WORK

FOLLOW THESE ADDITIONAL BEST MANAGEMENT SEDIMENT CONTROL PRACTICES FOR UTILITY CONSTRUCTION IN AREAS OUTSIDE OF DESIGNED CONTROLS:

- CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK.
- PLACE EXCAVATED MATERIAL ON THE HIGH SIDE OF THE TRENCH.
- BACKFILL, COMPACT AND STABILIZE TRENCHES FOR UTILITY INSTALLATIONS AT THE END OF EACH WORKING DAY. WHEN THIS IS NOT POSSIBLE, CONFORM TO (d).
- PLACE TEMPORARY SILT FENCES IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.

10. SENSITIVE AREAS

OBTAIN APPROVAL FROM THE ENGINEER AND COORDINATE WITH THE PERMIT HOLDERS WHO WILL COORDINATE WITH THE APPROPRIATE REGULATORY AGENCIES TO ENSURE THAT ALL PERMIT CONDITIONS ARE MET PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY WITHIN SPECIFIED SENSITIVE AREAS OF THE PROJECT. DESIGNATE A RESPONSIBLE PARTY TO MONITOR ALL WORK IN THESE AREAS TO ASSURE THAT REASONABLE CARE IS TAKEN IN OR ADJACENT TO THESE AREAS. SENSITIVE AREAS ARE DEFINED AS: FLOODPLAINS, WETLANDS (TIDAL, NONTIDAL AND ASSOCIATED BUFFERS) CRITICAL AREAS, FORESTED AREAS, ARCHEOLOGICAL SITES, HISTORIC SITES, PARKLAND AND OPEN WATER.

11. STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, COMPLETE PERMANENT OR TEMPORARY STABILIZATION WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3h:1v) AND SEVEN (7) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

12. SITE INFORMATION * (NOT FOR BIDDING PURPOSES)

TOTAL AREA OF SITE	0.627	ACRES
AREA DISTURBED	0.627	ACRES
AREA TO BE ROOFED OR PAVED	0.497	ACRES
TOTAL CUT	20	CU. YDS.
TOTAL FILL	370	CU. YDS.
OFFSITE WASTE/BORROW		
AREA LOCATION (IF KNOWN)	UNKNOWN	

13. INCREMENTAL STABILIZATION

REFER TO THE CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE INCREMENTAL STABILIZATION OF CUT AND FILLS.

14. MODIFICATIONS

SUBMIT MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROLS TO SHA FOR APPROVAL AND SUBMISSION TO MDE. OBTAIN ALL APPROVALS FROM SHA AND MDE PRIOR TO IMPLEMENTING ANY MODIFICATION.

STANDARD SYMBOLS

AT-GRADE INLET PROTECTION		REMOVABLE PUMPING STATION	
BAFFLE BOARDS		RIPRAP INFLOW PROTECTION	
BENCHING		RIPRAP OUTLET SEDIMENT TRAP ST III	
CATCH BASIN INSERT		ROCK OUTLET PROTECTION I	
CLEAR WATER DIVERSION PIPE		ROCK OUTLET PROTECTION II	
CLEAR WATER PIPE		ROCK OUTLET PROTECTION III	
COMBINATION INLET PROTECTION		SILT FENCE	
CONCRETE WASHOUT STRUCTURE		SILT FENCE ON PAVEMENT	
CURB INLET PROTECTION		SOD	
DIVERSION FENCE		STABILIZED CONSTRUCTION ENTRANCE	
EARTH DIKE		STANDARD INLET PROTECTION	
EMERGENCY SPILLWAY		STONE CHECK DAM	
FILTER BAG		STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	
FILTER BERM		SUBSURFACE DRAINS	
FILTER LOG		SUMP PIT	
GABION INFLOW PROTECTION		SUPER SILT FENCE	
GABION INLET PROTECTION		TEMPORARY ACCESS BRIDGE	
HORIZONTAL DRAW-DOWN DEVICE		TEMPORARY ACCESS CULVERT	
LIMIT OF DISTURBANCE		TEMPORARY ASPHALT BERM	
MEDIAN INLET PROTECTION		TEMPORARY BARRIER DIVERSION	
MEDIAN SUMP INLET PROTECTION		TEMPORARY GABION OUTLET STRUCTURE	
MOUNTABLE BERM		TEMPORARY SOIL STABILIZATION MATTING-TYPE A	
PERIMETER DIKE/SWALE		TEMPORARY SOIL STABILIZATION MATTING-TYPE E	
PERMANENT SOIL STABILIZATION MATTING-TYPE B		TEMPORARY SOIL STABILIZATION MATTING-TYPE D	
PERMANENT SOIL STABILIZATION MATTING-TYPE C		TEMPORARY STONE OUTLET STRUCTURE	
PIPE OUTLET SEDIMENT TRAP ST I		TEMPORARY SWALE	
PIPE SLOPE DRAIN		WASH RACK OPTION	
PLUNGE POOL		CHESAPEAKE BAY CRITICAL AREA	
PORTABLE SEDIMENT TANK		DRAINAGE BOUNDARY	
		EXISTING CONTOURS	
		PROPOSED CONTOURS	

TREE PROTECTION FENCE	
WETLAND	
WETLAND BUFFER	
100-YEAR FLOODPLAIN	

SEQUENCE OF CONSTRUCTION

- NOTIFY THE MDE INSPECTOR WITHIN SEVEN (7) WORKING DAYS BY WRITING AND/OR BY TELEPHONE AT 410-537-3510 TO ARRANGE FOR A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING CONSTRUCTION.
- SEE LANDSCAPING PLANS FOR ROOT PRUNING LOCATIONS AND DETAILS.
- THE PROPOSED SIDEWALK CONSTRUCTION IS INTENDED TO BE COMPLETED UTILIZING SAME DAY STABILIZATION PRACTICES. IF EROSION AND SEDIMENT CONTROL DEVICES AND/OR MEASURES ARE REQUIRED, INSTALLATION OF THE MEASURES SHALL BE COMPLETED PRIOR TO ANY DISTURBANCE OF AREAS DRAINING TO THE PROPOSED MEASURES.
- CONSTRUCT CURB & GUTTER WITH PAVEMENT AND CONSTRUCT PROPOSED INLETS. CONSTRUCT BLOCK RETAINING WALL AND SIDEWALK/OR RAMP IMPROVEMENTS. INSTALL BARRIER AND PERFORM FINAL GRADING.
- NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN APPROVED SEDIMENT CONTROL DEVICE.
- EROSION AND SEDIMENT CONTROL DEVICES AND/OR MEASURES ARE TO REMAIN IN PLACE UNTIL THEIR REMOVAL IS APPROVED BY THE MDE INSPECTOR.

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-101 THROUGH 116 AND SECTIONS 4-201 AND 215, AND THE CODE OF MARYLAND REGULATIONS (COMAR) 26.17.01 AND COMAR 26.17.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY.

DATE	DESIGNER'S SIGNATURE
MD REGISTRATION NO. _____ P.E., R.L.S., R.L.A., OR R.A. (CIRCLE ONE)	PRINTED NAME

P.E. 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. _____, EXPIRATION DATE: _____.

OWNER'S / DEVELOPER'S CERTIFICATION:

"I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS."

DATE	OWNER/DEVELOPER SIGNATURE
CARD NO.	PRINTED NAME AND TITLE

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GIATHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	
APPROVED	Date
Chief, Division of Engineering Services	
Designed by: MJB	Drawn by: JWJ
Checked by: BMD	

EROSION AND SEDIMENT CONTROL NOTES SHEET CENTRAL AVENUE SIDEWALKS	
SCALE = 1/4"	12/2014
Project No.: C.I.P. PR. # 506747	SHEET ES-01 of 01

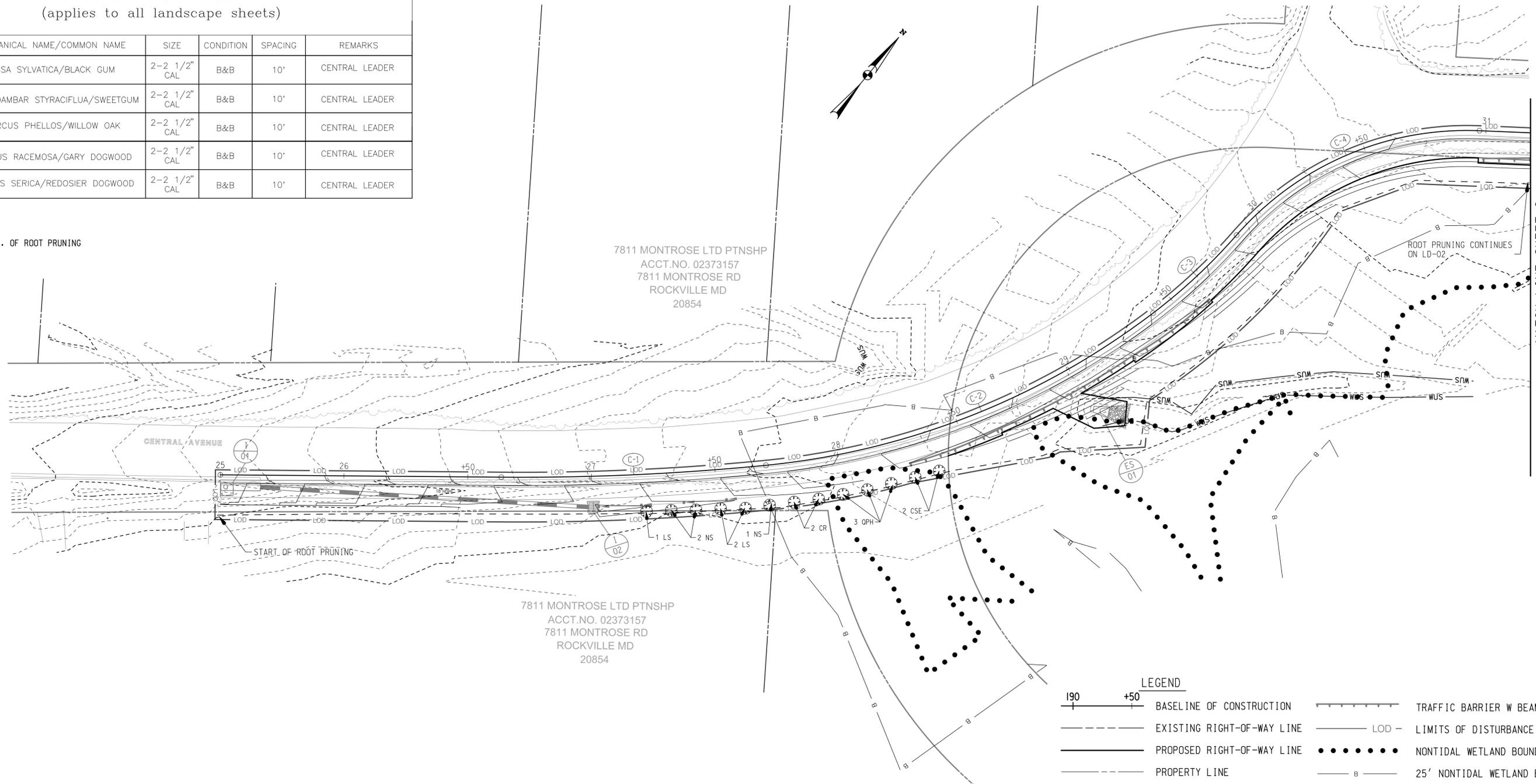
WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
www.WallaceMontgomery.com A Limited Liability Partnership

MASTER PLANT LIST
(applies to all landscape sheets)

QTY	CODE	BOTANICAL NAME/COMMON NAME	SIZE	CONDITION	SPACING	REMARKS
3	NS	NYSSA SYLVATICA/BLACK GUM	2-2 1/2" CAL	B&B	10'	CENTRAL LEADER
3	LS	LIQUIDAMBAR STYRACIFLUA/SWEETGUM	2-2 1/2" CAL	B&B	10'	CENTRAL LEADER
3	QPH	QUERCUS PHELLOS/WILLOW OAK	2-2 1/2" CAL	B&B	10'	CENTRAL LEADER
2	CR	CORNUS RACEMOSA/GARY DOGWOOD	2-2 1/2" CAL	B&B	10'	CENTRAL LEADER
2	CSE	CORNUS SERICA/REDSIER DOGWOOD	2-2 1/2" CAL	B&B	10'	CENTRAL LEADER

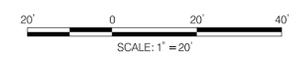
NOTES:

- 583 L.F. OF ROOT PRUNING



LEGEND	
	BASELINE OF CONSTRUCTION
	EXISTING RIGHT-OF-WAY LINE
	PROPOSED RIGHT-OF-WAY LINE
	PROPERTY LINE
	EXISTING CONTOURS
	PROPOSED CONTOURS
	TREE PLANTING
	TRAFFIC BARRIER W BEAM
	LIMITS OF DISTURBANCE
	NONTIDAL WETLAND BOUNDARY
	25' NONTIDAL WETLAND BUFFER
	WATERS OF THE U.S.
	FOREST BOUNDARY
	ROOT PRUNING

WALLACE MONTGOMERY
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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GIATHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: MBD Drawn by: CBG Checked by: MBD

LANDSCAPING PLANS

**CENTRAL AVENUE
SIDEWALKS**

SCALE 1" = 20' 12/2014

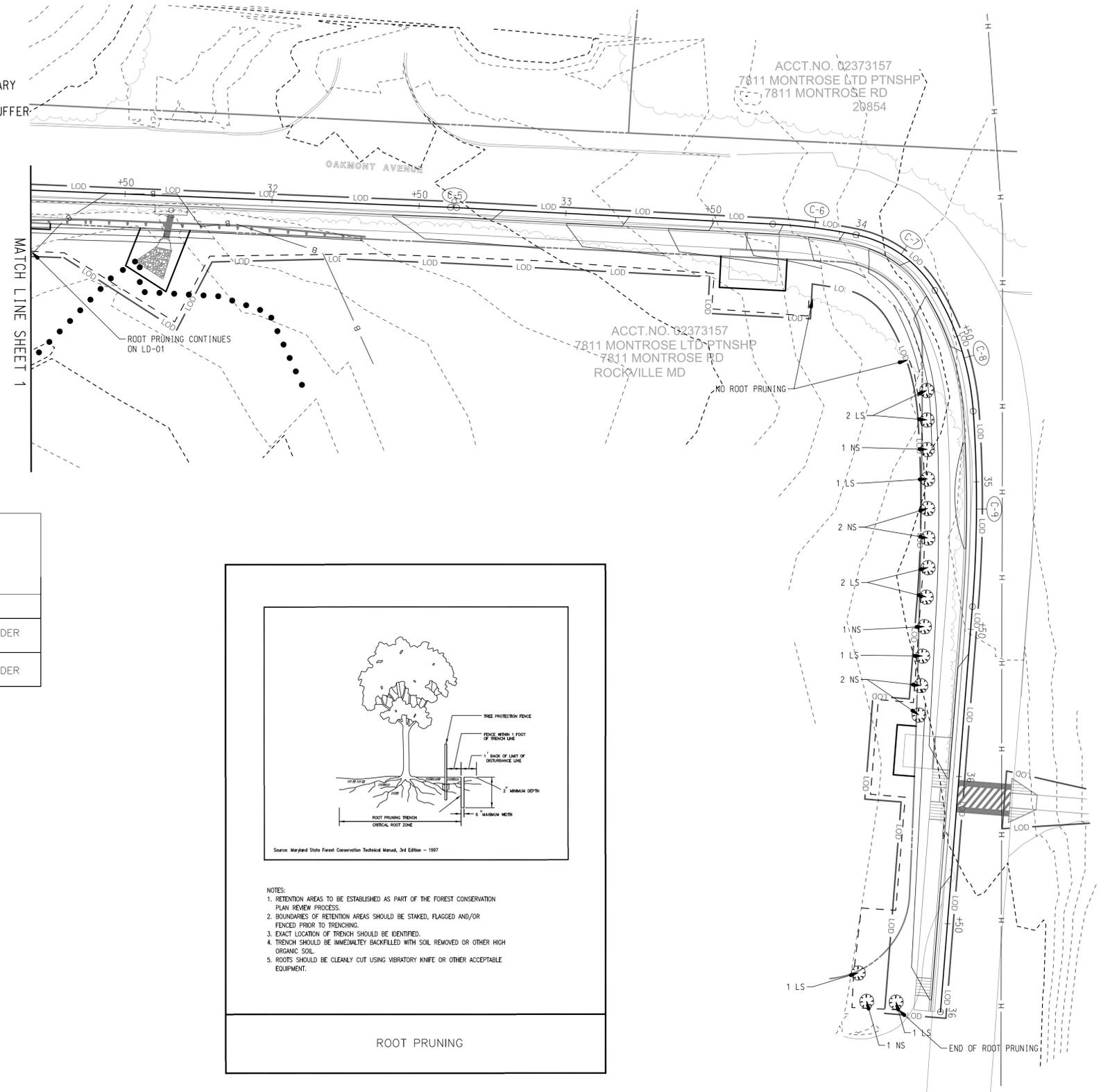
Project No.: C.I.P. PR. # 506747 SHEET LD-01 of 02

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JUNE 11, 2014

LEGEND

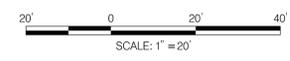
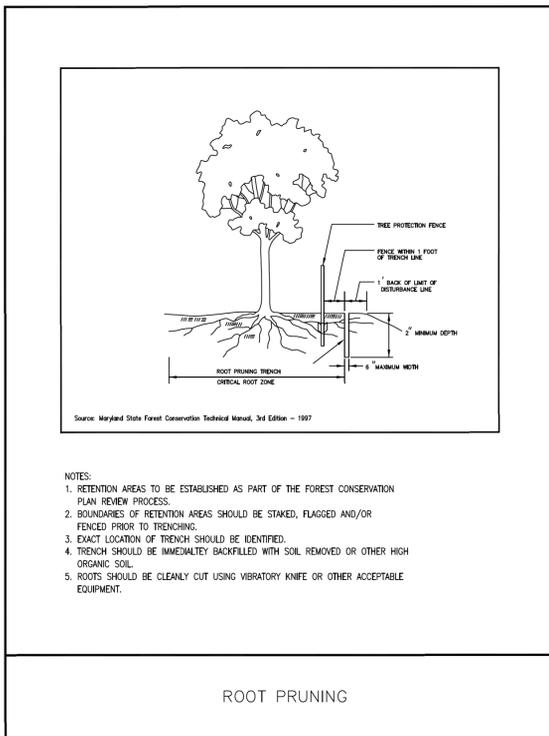
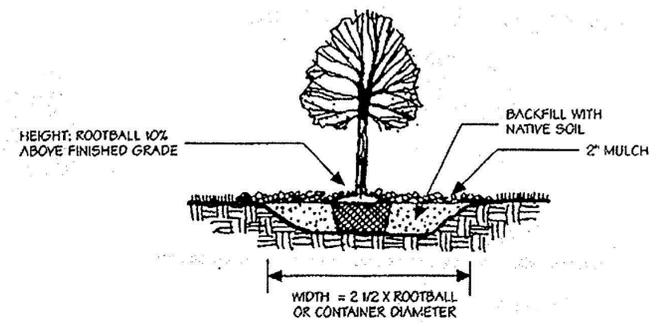
190	+50	BASELINE OF CONSTRUCTION	TRAFFIC BARRIER W BEAM
---	---	EXISTING RIGHT-OF-WAY LINE	LOD - LIMITS OF DISTURBANCE
---	---	PROPOSED RIGHT-OF-WAY LINE	●●●●● NONTIDAL WETLAND BOUNDARY
---	---	PROPERTY LINE	--- B --- 25' NONTIDAL WETLAND BUFFER
---	---	EXISTING CONTOURS	--- WUS --- WATERS OF THE U.S.
---	---	PROPOSED CONTOURS	--- FOREST BOUNDARY
⊙	---	TREE PLANTING	--- ROOT PRUNING



MASTER PLANT LIST
(applies to all landscape sheets)

QTY	CODE	BOTANICAL NAME/COMMON NAME	SIZE	CONDITION	SPACING	REMARKS
7	NS	NYSSA SYLVATICA/BLACK GUM	2-2 1/2" CAL	B&B	10'	CENTRAL LEADER
8	LS	LIQUIDAMBAR STYRACIFLUA/SWEETGUM	2-2 1/2" CAL	B&B	10'	CENTRAL LEADER

NOTES:
1. 577 L.F. OF ROOT PRUNING



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10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
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DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GIATHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by: MBD Drawn by: CBG Checked by: MBD

LANDSCAPING PLANS

CENTRAL AVENUE SIDEWALKS

SCALE: 1" = 20'

12/2014

Project No.: C.I.P. PR.#506747 SHEET LD - 02 of 02

PLOTTED Tuesday, January 06, 2015 AT 10:20 AM
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