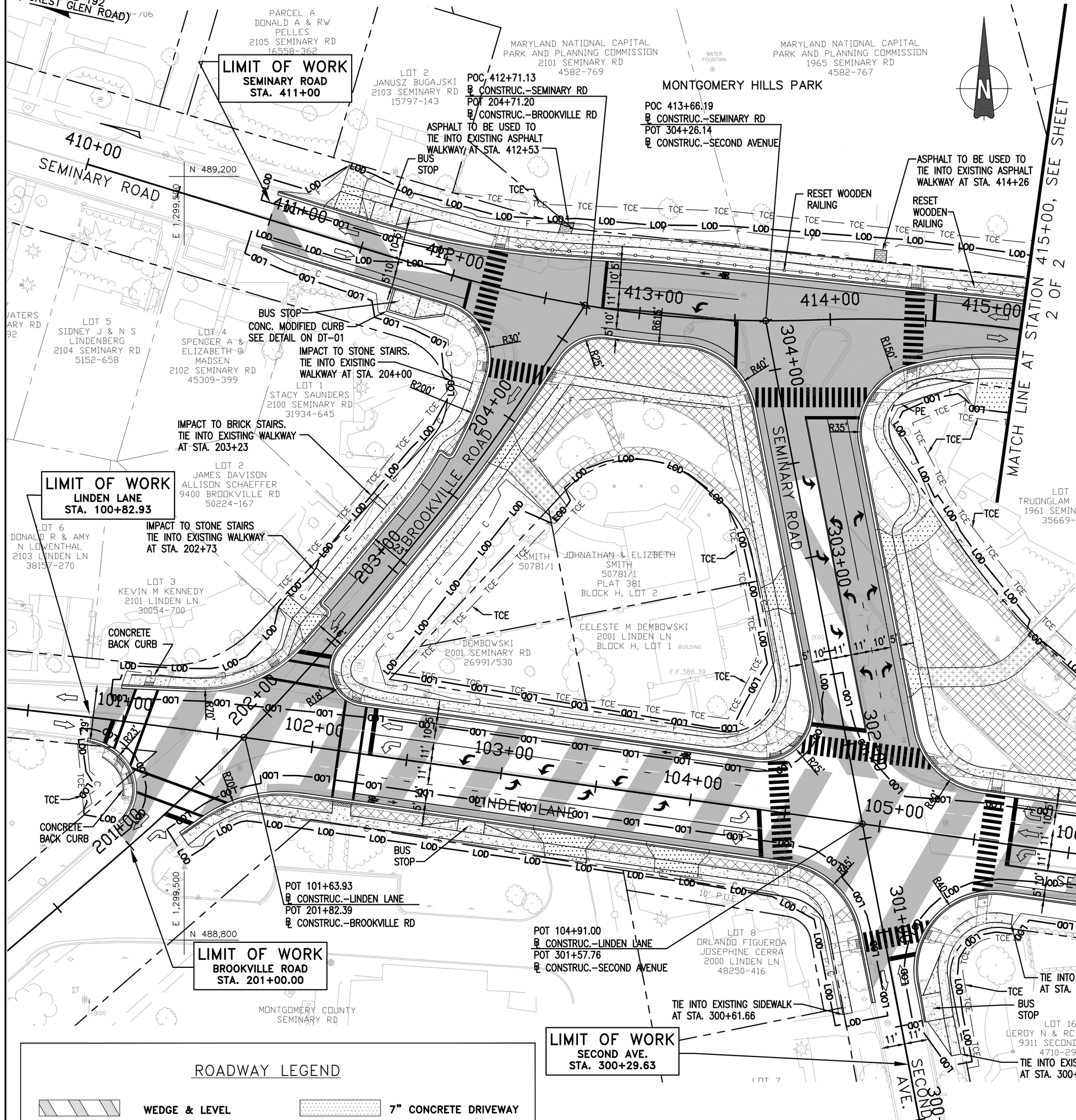


LONGITUDINAL UNDERDRAIN MD–387.11

QUANTITY	FROM	TO
107 LF	101+40 RT	103+05 RT
140 LF	103+14 RT	104+55 RT
250 LF	202+58 RT	104+31 LT
47 LF	105+43 LT	302+08 RT
107 LF	202+63 RT	203+70 RT
71 LF	203+75 RT	204+45 RT
30 LF	302+11 LT	302+39 LT
148 LF	302+46 LT	303+94 LT
49 LF	302+16 RT	302+65 RT
59 LF	302+74 RT	303+32 RT
43 LF	303+44 RT	303+82 RT
87 LF	412+71 RT	413+50 RT
78 LF	412+71 LT	413+52 LT
101 LF	413+61 LT	414+60 LT
30 LF	414+34 RT	414+64 RT
34 LF	414+68 LT	415+00 LT
30 LF	414+69 RT	415+00 RT

DETECTABLE WARNING SURFACE MD–655.40

QUANTITY	STATION
10 SF	101+00 RT
12 SF	101+05 RT
10 SF	101+10 LT
15 SF	101+55 RT
10 SF	202+20 LT
13 SF	202+35 RT
12 SF	104+42 LT
12 SF	104+53 LT
10 SF	104+50 RT
10 SF	300+95 LT
11 SF	300+94 RT
11 SF	105+60 RT
10 SF	105+22 LT
10 SF	105+58 LT
10 SF	412+20 LT
11 SF	412+20 RT
11 SF	204+15 LT
11 SF	204+30 RT
11 SF	304+87 LT
11 SF	303+80 RT
11 SF	414+45 LT
11 SF	414+45 RT

COMBINATION CONCRETE CURB AND GUTTER – TYPE D MD–620.02

QUANTITY	FROM	TO
60 LF	100+85 RT	201+04 LT
420 LF	101+40 RT	300+62 LT
300 LF	300+50 RT	107+71 RT
440 LF	100+98 LT	411+00 RT
280 LF	102+05 LT	104+60 LT
550 LF	107+71 LT	415+00 RT
260 LF	302+10 LT	304+10 LT
260 LF	202+50 RT	204+60 RT
405 LF	411+00 LT	415+00 LT
75 LF	412+77 LT	413+41 LT

RESIDENTIAL DRIVEWAY MC – 301.01

QUANTITY	STATION	WIDTH
360 SF	103+38 RT	21.8'
335 SF	103+98 RT	23.0'
335 SF	106+63 LT	10.8'
194 SF	106+66 RT	17.0'
197 SF	107+32 RT	12.0'
280 SF	107+48 LT	10.2'
206 SF	202+50 LT	10.0'
505 SF	203+82 RT	12.3'
770 SF	302+30 RT	10.2'
217 SF	302+83 LT	13.9'
395 SF	303+00 RT	10.0'
212 SF	411+37 LT	14.5'
518 SF	414+91 RT	20.0'

MILL AND OVERLAY

QUANTITY	FROM	TO
34,300 SF	100+82	107+71

CONCRETE CURB TYPE "A" (BACK CURB)

QUANTITY	FROM	TO
25 LF	100+85 RT	201+04 LT
20 LF	101+03 RT	101+23 RT

RESET WOODEN RAILING

QUANTITY	FROM	TO
203 LF	412+10 LT	414+36 LT
48 LF	414+53 LT	415+00 LT

FULL DEPTH PAVEMENT

QUANTITY	FROM	TO
1,250 SF	101+75 RT	104+80 RT
680 SF	105+50 RT	107+40 RT
5,780 SF	202+10	204+55
4,200 SF	301+70 RT	303+40 RT
440 SF	302+35 LT	303+40 LT
15,500 SF	411+50	415+00

WEDGE AND LEVEL

QUANTITY	FROM	TO
3,850 SF	301+85	303+40
2,430 SF	411+00	412+00

CONCRETE MODIFIED CURB SEE DETAIL

QUANTITY	FROM	TO
45 LF	411+72 RT	412+00 RT

RESIDENTIAL SIDEWALK, CLOSED SECTION MC–110.01

QUANTITY	FROM	TO
120 SF	100+85 RT	201+04 LT
2050 SF	101+40 RT	300+62 LT
640 SF	300+50 RT	105+80 RT
1860 SF	100+98 LT	411+70 RT
1050 SF	102+05 LT	104+60 LT
2930 SF	108+68 LT	415+00 RT
1100 SF	302+10 LT	304+10 LT
1130 SF	202+50 RT	204+60 RT
2210 SF	411+30 LT	415+00 LT

ASPHALT SIDEWALK SEE DETAIL

QUANTITY	STATION
38 SF	412+53 LT
42 SF	414+26 LT

NOTE:

1. WSSC TO INSTALL 8" WATER MAIN IN THE VICINITY BETWEEN RILEY PLACE AND SELWAY LANE. CONTRACTOR TO COORDINATE WITH WSSC FOR EXACT LOCATION. WATER MAIN PROJECT NO. BRCR6058A16 WAS IDENTIFIED AND PLANNED IN NOVEMBER 2016.

DESIGN AND DRAWING BASED ON MARYLAND COORDIANTE SYSTEM: HORIZONTAL – NAD 83 VERTICAL – NAVD 88

ROADWAY LEGEND

- WEDGE & LEVEL
- FULL DEPTH PAVEMENT
- 2" GRIND & RESURFACE
- REMOVE EXISTING PAVEMENT
- PROPOSED TRAFFIC FLOW
- 7" CONCRETE DRIVEWAY
- 7" ASPHALT DRIVEWAY
- 5" CONCRETE SIDEWALK
- 5" ASPHALT SIDEWALK
- EXISTING TRAFFIC FLOW

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

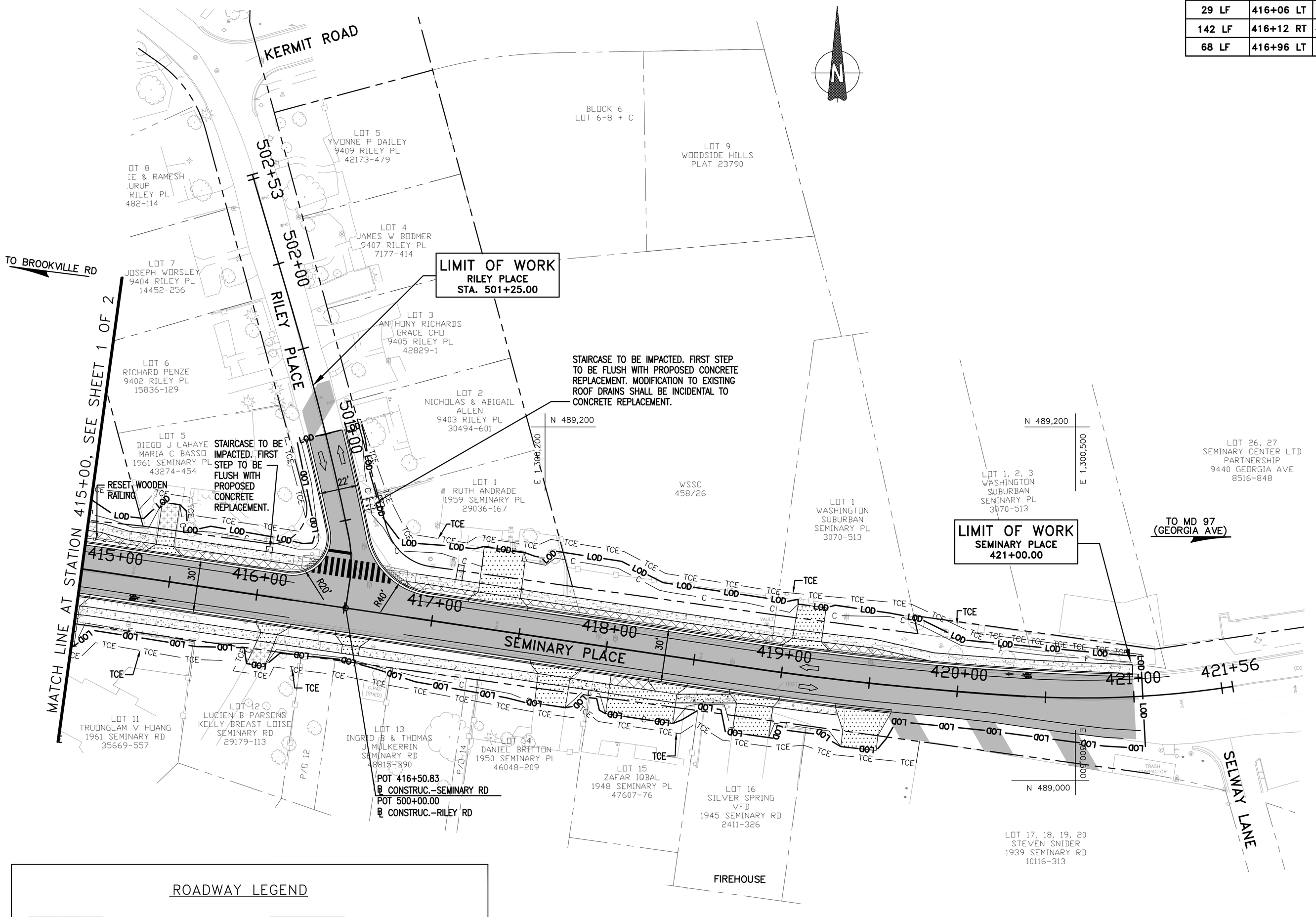
Designed by: MTF Drawn by: SAH Checked by: JJR

PS–01 ROADWAY PLAN
SEMINARY ROAD INTERSECTION IMPROVEMENTS

0 30' 60'

SCALE: 1"=30' DATE: MAY 2017

Project No. : 501307 SHEET 16 of 123



LONGITUDINAL UNDERDRAIN MD–387.11		
QUANTITY	FROM	TO
94 LF	415+00 RT	415+94 RT
97 LF	415+00 LT	415+98 LT
29 LF	416+06 LT	416+31 LT
142 LF	416+12 RT	417+54 RT
68 LF	416+96 LT	417+63 LT

MILL AND OVERLAY		
QUANTITY	FROM	TO
550 SF	501+00	501+25

RESET WOODEN RAILING		
QUANTITY	FROM	TO
29 LF	415+00 LT	415+29 LT

FULL DEPTH PAVEMENT		
QUANTITY	FROM	TO
17,200 SF	415+00	421+00
1,500 SF	500+20	501+00

WEDGE AND LEVEL		
QUANTITY	FROM	TO
2,150 SF	419+55 RT	420+90 RT

RESIDENTIAL SIDEWALK, CLOSED SECTION MC–110.01		
QUANTITY	FROM	TO
1,350 SF	415+00 RT	419+36 RT
430 SF	415+00 LT	500+25 LT
2,340 SF	500+25 RT	421+00 LT

DETECTABLE WARNING SURFACE MD–655.40		
QUANTITY	STATION	WIDTH
14 SF	416+30 LT	20.0'
20 SF	416+75 LT	20.0'

RESIDENTIAL DRIVEWAY MC – 301.01		
QUANTITY	STATION	WIDTH
305 SF	415+44 LT	10.0'
265 SF	416+10 RT	10.0'
123 SF	416+57 RT	10.0'
750 SF	417+35 LT	24.8'
440 SF	417+73 RT	18.3'
735 SF	418+37 RT	12.3'
500 SF	418+89 RT	20.6'
410 SF	419+12 LT	16.5'
513 SF	419+50 RT	20.5'

COMBINATION CONCRETE CURB AND GUTTER – TYPE D MD–620.02		
QUANTITY	FROM	TO
434 LF	415+00 RT	419+65 RT
117 LF	415+00 LT	500+47 LT
442 LF	500+38 RT	421+00 LT

MOUNTABLE CONCRETE CURB & GUTTER MC–101.01		
QUANTITY	FROM	TO
53 LF	500+47 LT	501+00 LT
63 LF	500+38 RT	501+00 RT

NOTE:
1. WSSC TO INSTALL 8" WATER MAIN IN THE VICINITY BETWEEN RILEY PLACE AND SELWAY LANE. CONTRACTOR TO COORDINATE WITH WSSC FOR EXACT LOCATION. WATER MAIN PROJECT NO. BRCR6058A16 WAS IDENTIFIED AND PLANNED IN NOVEMBER 2016.

ROADWAY LEGEND

- WEDGE & LEVEL
- FULL DEPTH PAVEMENT
- 2" GRIND & RESURFACE
- REMOVE EXISTING PAVEMENT
- PROPOSED TRAFFIC FLOW
- 7" CONCRETE DRIVEWAY
- 7" ASPHALT DRIVEWAY
- 5" CONCRETE SIDEWALK
- 5" ASPHALT SIDEWALK
- EXISTING TRAFFIC FLOW

DESIGN AND DRAWING BASED ON MARYLAND COORDIANTE SYSTEM: HORIZONTAL – NAD 83 VERTICAL – NAVD 88

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
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GAITHERSBURG, MARYLAND

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Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

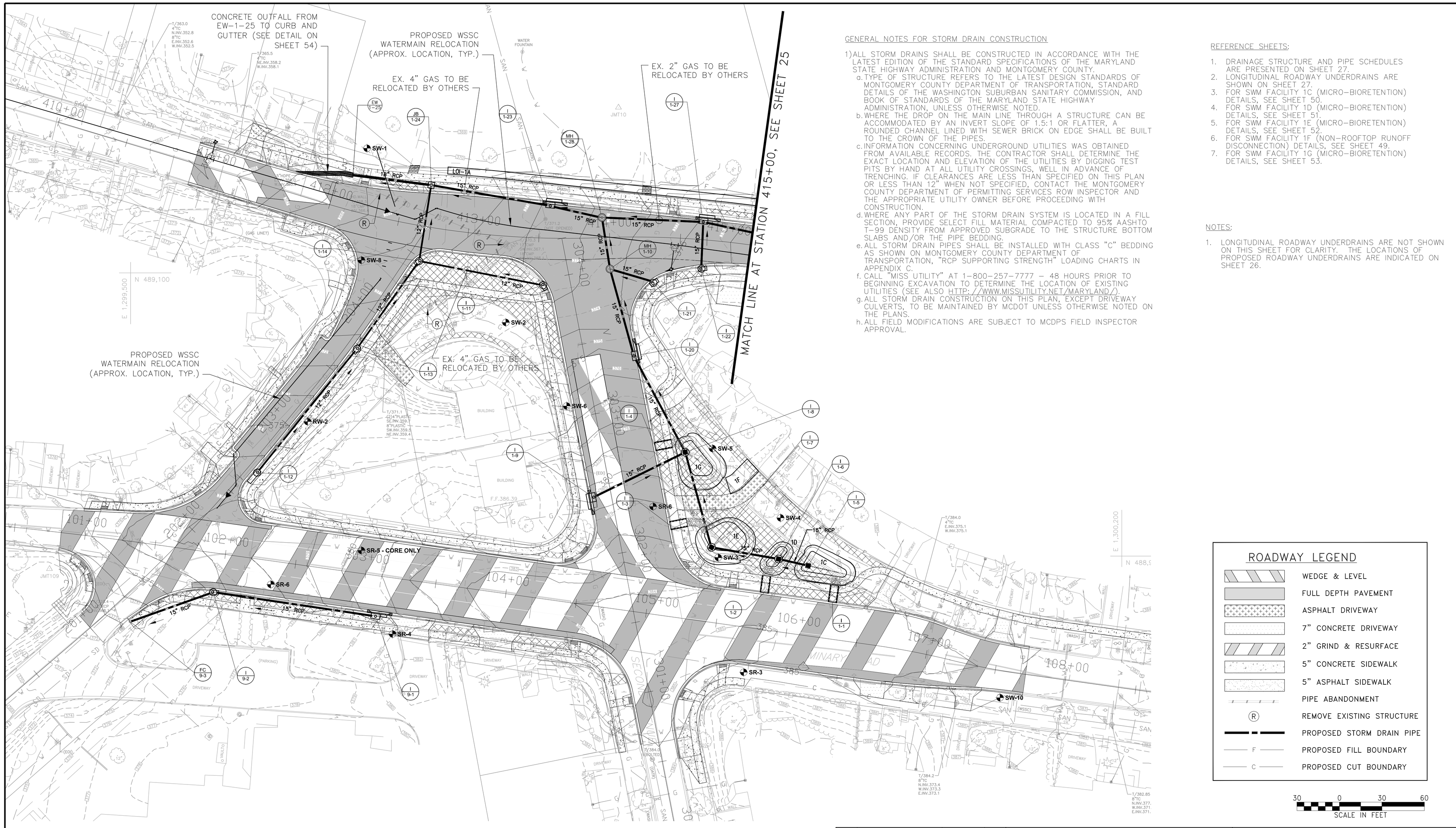
Designed by: MTF Drawn by: SAH Checked by: JJR

PS–02 ROADWAY PLAN
SEMINARY ROAD INTERSECTION IMPROVEMENTS

0 30' 60'

SCALE: 1"=30' DATE: MAY 2017

Project No.: 501307 SHEET 17 of 123



GENERAL NOTES FOR STORM DRAIN CONSTRUCTION

1) ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND MONTGOMERY COUNTY.
   a. TYPE OF STRUCTURE REFERS TO THE LATEST DESIGN STANDARDS OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, STANDARD DETAILS OF THE WASHINGTON SUBURBAN SANITARY COMMISSION, AND BOOK OF STANDARDS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, UNLESS OTHERWISE NOTED.
   b. WHERE THE DROP ON THE MAIN LINE THROUGH A STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES.
   c. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF THE UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED ON THIS PLAN OR LESS THAN 12" WHEN NOT SPECIFIED, CONTACT THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES ROW INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
   d. WHERE ANY PART OF THE STORM DRAIN SYSTEM IS LOCATED IN A FILL SECTION, PROVIDE SELECT FILL MATERIAL COMPACTED TO 95% AASHTO T-99 DENSITY FROM APPROVED SUBGRADE TO THE STRUCTURE BOTTOM SLABS AND/OR THE PIPE BEDDING.
   e. ALL STORM DRAIN PIPES SHALL BE INSTALLED WITH CLASS "C" BEDDING AS SHOWN ON MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, "RCP SUPPORTING STRENGTH" LOADING CHARTS IN APPENDIX C.
   f. CALL "MISS UTILITY" AT 1-800-257-7777 - 48 HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE LOCATION OF EXISTING UTILITIES (SEE ALSO HTTP://WWW.MISSUTILITY.NET/MARYLAND/).
   g. ALL STORM DRAIN CONSTRUCTION ON THIS PLAN, EXCEPT DRIVEWAY CULVERTS, TO BE MAINTAINED BY MCDOT UNLESS OTHERWISE NOTED ON THE PLANS.
   h. ALL FIELD MODIFICATIONS ARE SUBJECT TO MCDPS FIELD INSPECTOR APPROVAL.

REFERENCE SHEETS:

1. DRAINAGE STRUCTURE AND PIPE SCHEDULES ARE PRESENTED ON SHEET 27.
2. LONGITUDINAL ROADWAY UNDERDRAINS ARE SHOWN ON SHEET 27.
3. FOR SWM FACILITY 1C (MICRO-BIORETENTION) DETAILS, SEE SHEET 50.
4. FOR SWM FACILITY 1D (MICRO-BIORETENTION) DETAILS, SEE SHEET 51.
5. FOR SWM FACILITY 1E (MICRO-BIORETENTION) DETAILS, SEE SHEET 52.
6. FOR SWM FACILITY 1F (NON-ROOFTOP RUNOFF DISCONNECTION) DETAILS, SEE SHEET 49.
7. FOR SWM FACILITY 1G (MICRO-BIORETENTION) DETAILS, SEE SHEET 53.

NOTES:

1. LONGITUDINAL ROADWAY UNDERDRAINS ARE NOT SHOWN ON THIS SHEET FOR CLARITY. THE LOCATIONS OF PROPOSED ROADWAY UNDERDRAINS ARE INDICATED ON SHEET 26.

ROADWAY LEGEND

- WEDGE & LEVEL
- FULL DEPTH PAVEMENT
- ASPHALT DRIVEWAY
- 7" CONCRETE DRIVEWAY
- 2" GRIND & RESURFACE
- 5" CONCRETE SIDEWALK
- 5" ASPHALT SIDEWALK
- PIPE ABANDONMENT
- (R) REMOVE EXISTING STRUCTURE
- PROPOSED STORM DRAIN PIPE
- F — PROPOSED FILL BOUNDARY
- C — PROPOSED CUT BOUNDARY

30 0 30 60
SCALE IN FEET

RJM ENGINEERING
6031 University Blvd., Ste. 290
Ellicott City, MD 21043

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

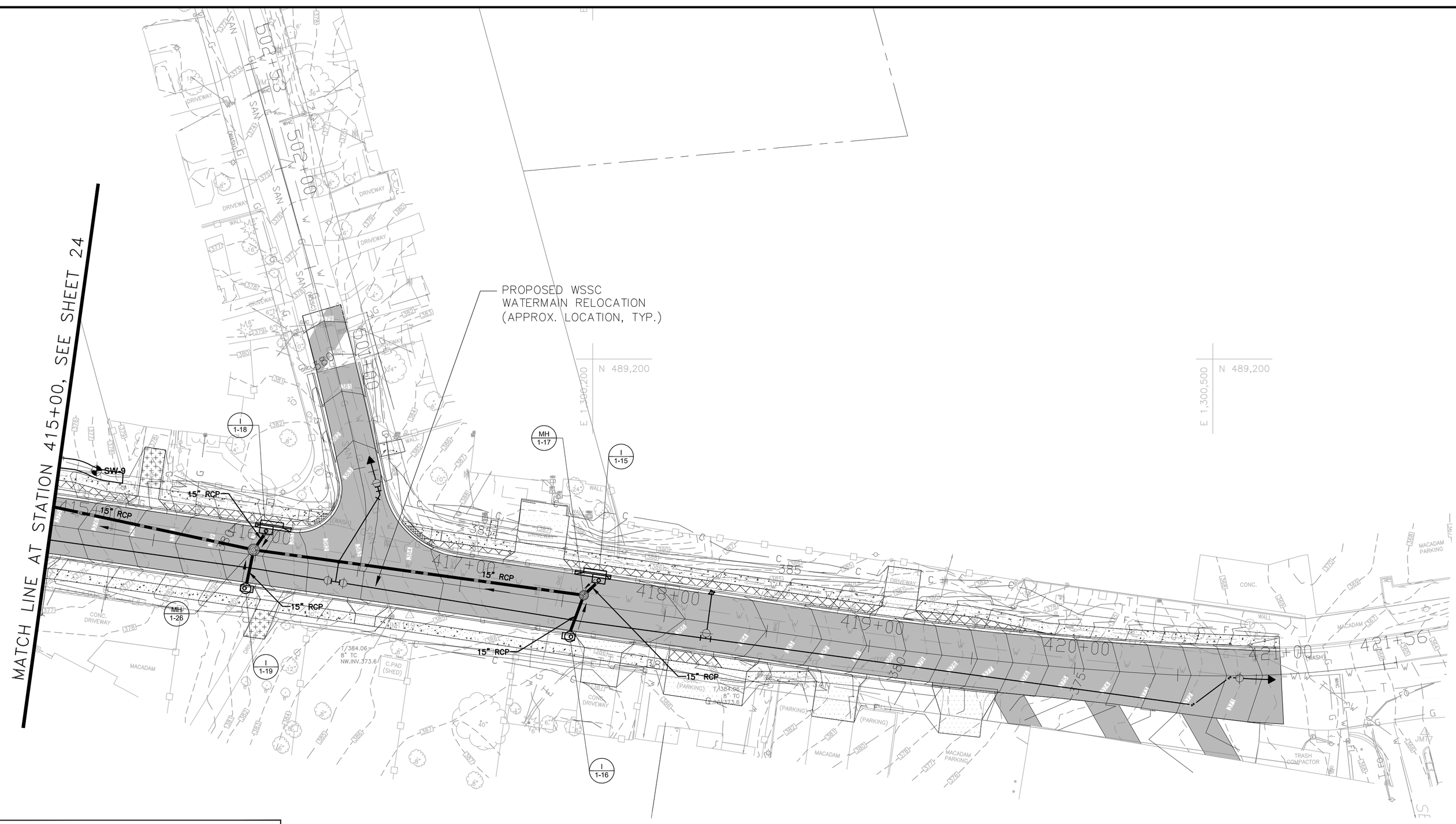
Designed by: KJS Drawn by: KJS Checked by: DZ

DD-01 GRADING AND DRAINAGE PLAN

SEMINARY ROAD INTERSECTION IMPROVEMENTS

SCALE: 1"=30' DATE: MAY 2017

Project No. : 501307 SHEET 24 of 123



REFERENCE SHEETS:

1. DRAINAGE STRUCTURE AND PIPE SCHEDULES ARE PRESENTED ON SHEET 27.
2. LONGITUDINAL ROADWAY UNDERDRAINS ARE SHOWN ON SHEET 27.
3. FOR SWM FACILITY 1C (MICRO-BIORETENTION) DETAILS, SEE SHEET 50.
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7. FOR SWM FACILITY 1G (MICRO-BIORETENTION) DETAILS, SEE SHEET 53.

NOTES:

1. LONGITUDINAL ROADWAY UNDERDRAINS ARE NOT SHOWN ON THIS SHEET FOR CLARITY. THE LOCATIONS OF PROPOSED ROADWAY UNDERDRAINS ARE INDICATED ON SHEET 26.
2. SCHEDULE OF DRAINAGE STRUCTURES IS PRESENTED ON SHEET 27.

ROADWAY LEGEND

- WEDGE & LEVEL
- FULL DEPTH PAVEMENT
- ASPHALT DRIVEWAY
- 7" CONCRETE DRIVEWAY
- 2" GRIND & RESURFACE
- 5" CONCRETE SIDEWALK
- 5" ASPHALT SIDEWALK
- PIPE ABANDONMENT
- (R) REMOVE EXISTING STRUCTURE
- PROPOSED STORM DRAIN PIPE
- F PROPOSED FILL BOUNDARY
- C PROPOSED CUT BOUNDARY

30 0 30 60
SCALE IN FEET

RJM ENGINEERING
6031 University Blvd., Ste. 290
Ellicott City, MD 21043

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: KJS Drawn by: KJS Checked by: DZ

DD-02 GRADING AND DRAINAGE PLAN

SEMINARY ROAD INTERSECTION IMPROVEMENTS

SCALE: 1"=30' DATE: MAY 2017

Project No. : 501307 SHEET 25 of 123