SHEET INDEX

SHEET NO.

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X1-X6 ROADWAY CROSS-SECTIONS

* SHEET NOT INCLUDED WITH THIS SUBMISSION

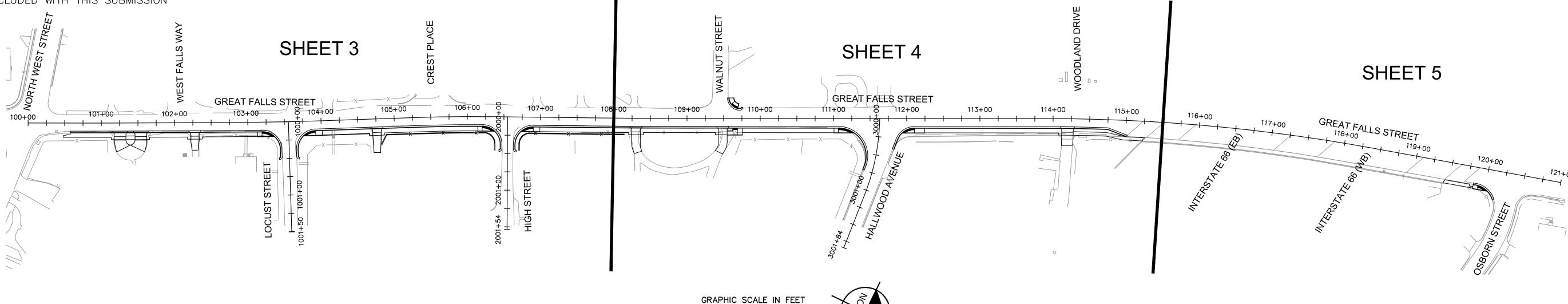


FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS
AND ENVIRONMENTAL SERVICES
PROJECT NO. 5G25-060-042
FUND NO. 300-C30050

FUNCTIONAL CLASSIFICATION GREAT FALLS STREET (ROUTE 694) FROM: OSBORNE STREET TO: FALLS CHURCH CITY LIMITS STREET CLASS URBAN MINOR ARTERIAL AADT (2015) 9,100 N/AAADT (2035) 1,144 51.8%/48.2% D (%) T (%) 35 MPH DESIGN V (mph) 35 MPH POSTED V (mph)

PROGRAMMATIC WAIVER TO THE STANDARD REPORT FOR SIDEWALK BUFFER STRIP WIDTH APPROVED ON XX/XX/2017. THE WAIVER RELATES TO THE CURB ABUTTED SIDEWALK

THE STORMWATER DETENTION EXCEPTION WAS APPROVED ON XX/XX/2017. THE EXCEPTION RELATES TO THE STORMWATER DETENTION REQUIREMENT UNDER THE STORMWATER MANAGEMENT ORDINANCE (SWMO).



GREAT FALLS STREET SIDEWALK IMPROVEMENTS
PRE-FINAL PLANS

PRE-FINAL PLANS
JULY 2017

DERIK DOUGHTY

DERIK DOUGHTY

O7/11/2017

ONAL

KIMLEY-HORN AND
ASSOCIATES, INC.

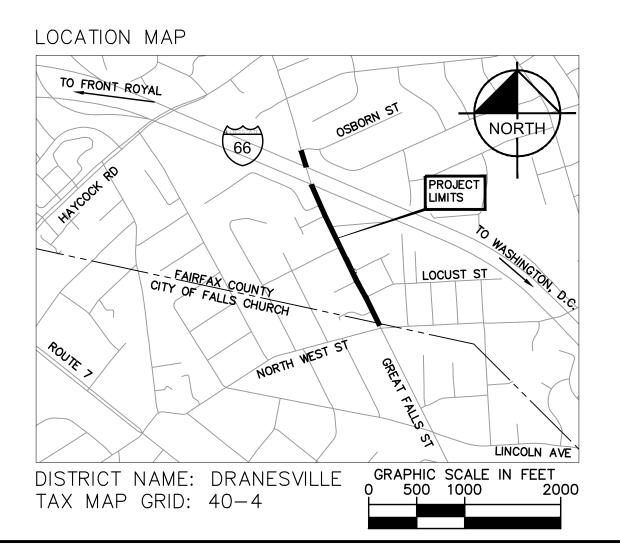
DESIGN FEATURES RELATING TO CONSTRUCTION OR REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S:

- ROAD AND BRIDGE SPECIFICATIONS, DATED 2016
- ROAD AND BRIDGE STANDARDS, DATED 2016
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009
- VIRGINIA SUPPLEMENT TO THE 2009 MUTCD, DATED 2011
- VIRGINIA WORK AREA PROTECTION MANUAL, DATED 2011, REVISED 2015

AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

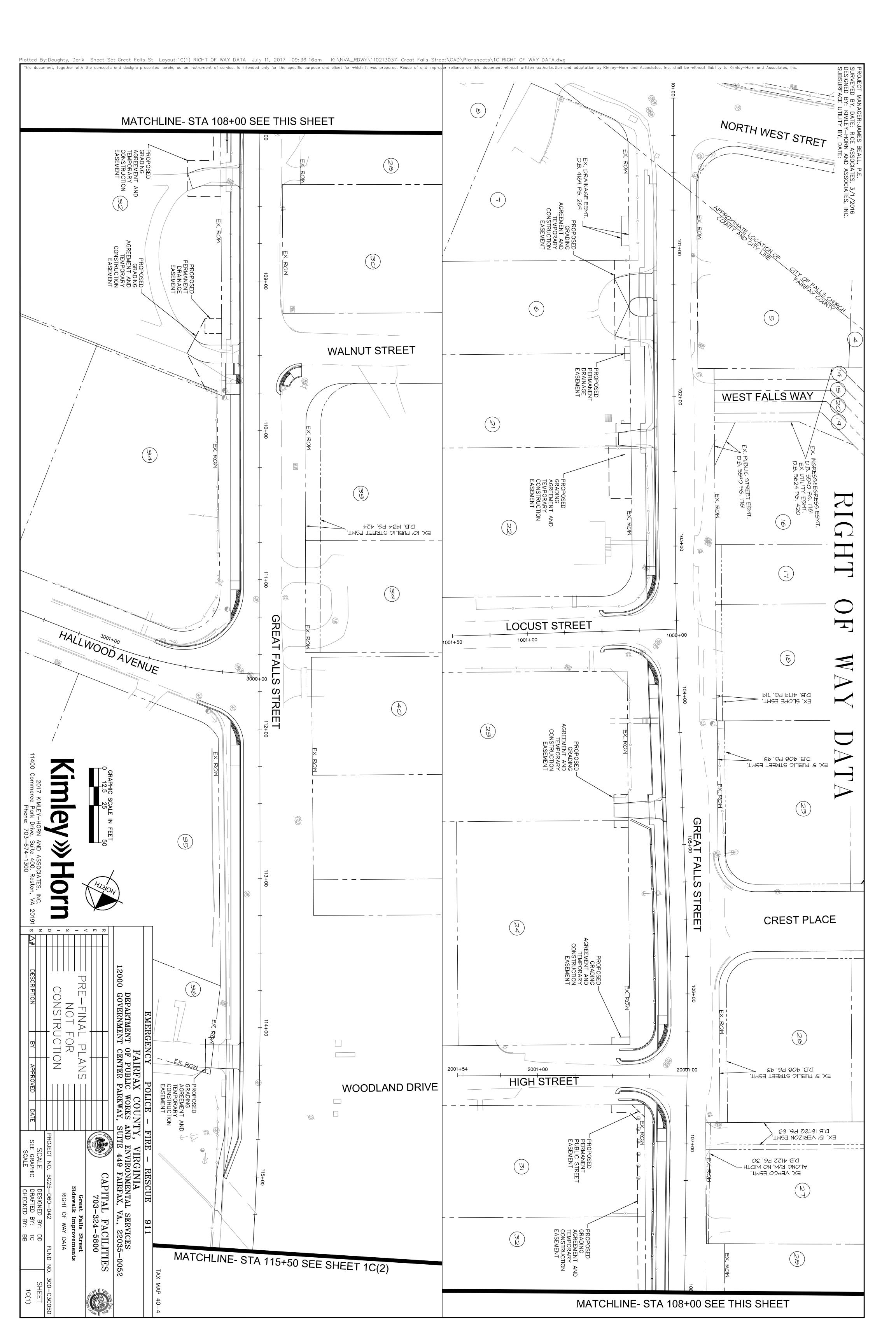
ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11U EXCEPT WHERE OTHERWISE NOTED.

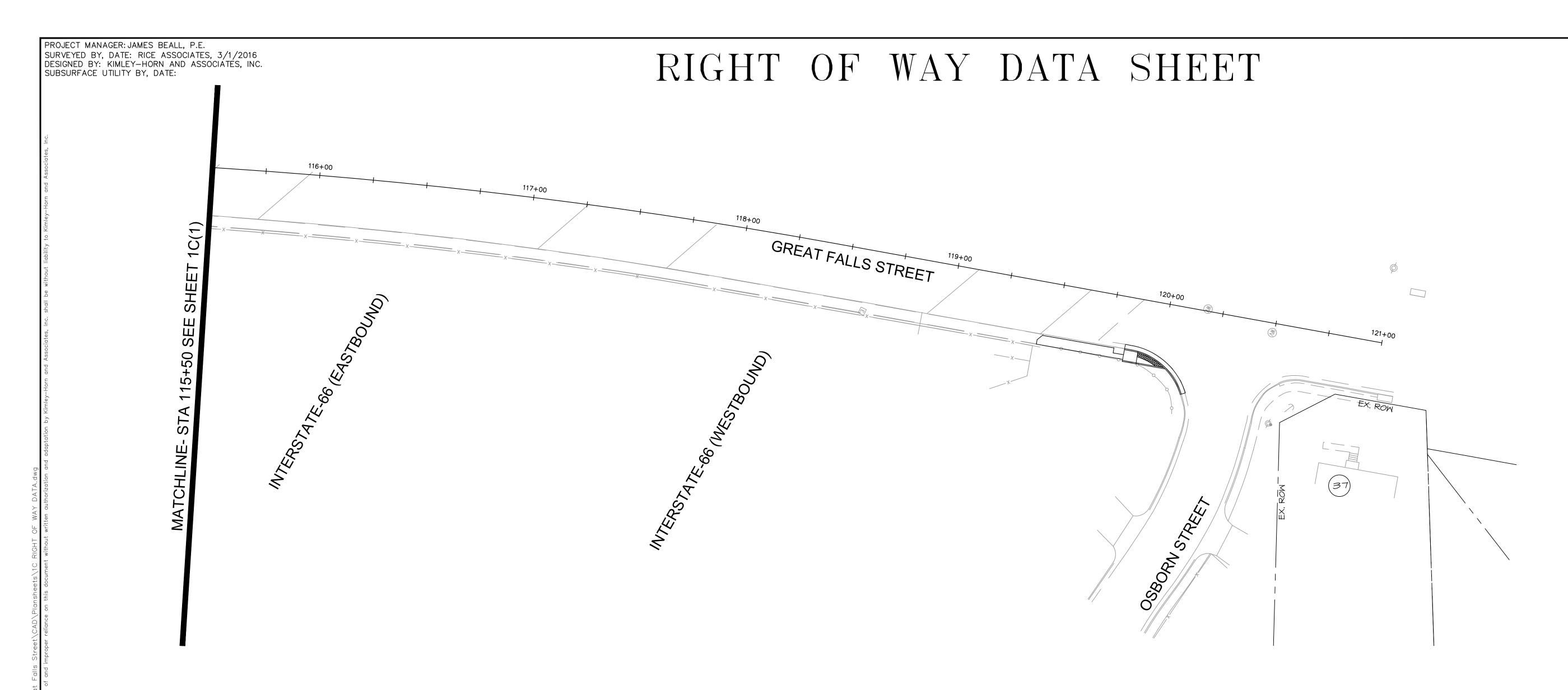


FINAL PLANS AUTHORIZED FOR CONSTRUCTION PER DPWES/DOT DELEGATION MATRIX

SECTION CHIEF, STORMWATER & TRANSPORTATION CONSTRUCTION BRANCH

CHIEF, TRANSPORTATION DESIGN DIVISION

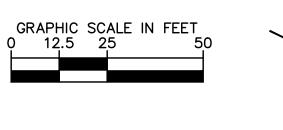


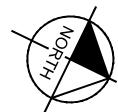


				ARI	EA		
LANDOWNER					EASEMENTS		
	TOTAL	fee taking	FEE REMAINDER	PERMANENT	UTILITY	TEMPORARY	PROFFERS
	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	YES / NO
EUGENE F. GALVIN & MARY GALVIN (6)	8,751		8,751	18		605	NO
S. GEORGE ABURDEINEH & SAMIA S. ABURDEINEH (21)	9,150		9,150	18		132	NO
BARBARA B. COLLINS & BARRY D. BILLET (22)	14,338		14,338	0		517	NO
SAMUAL R. PEALE & ANNE M. MORRISON (23)	14,000		14,000	0		165	NO
KLARA K. SEVER (24)	17,243		17,243	0		69	NO
6712 HIGH STREET ASSOCIATES LLC. (31)	12,000		12,000	35		445	NO
DUANE L. KISSICK & MARTHA M. KISSICK (32)	33,387		33,387	111		1,586	NO
JUAN ESPINOZA (36)	11,310		11,310	0		114	NO
TOTAL	120179		120,179	182		3,633	

NOTE:

1. CONTRACTOR SHALL PROTECT PROPERTY CORNERS FROM HARM. CONTRACTOR SHALL REPLACE, IF NECESSARY, ANY DISTURBED PROPERTY MONUMENTS UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR.





DESCRIPTION

2017 KIMLEY-HORN AND ASSOCIATES, INC.
11400 Commerce Park Drive, Suite 400, Reston, VA 20191 s \(\times \) # Phone: 703-674-1300

	TAX MAP 40-4
EMERGENCY POLICE – FIRE	- RESCUE 911
FAIRFAX COUNTY, VI	RGINIA
DEPARTMENT OF PUBLIC WORKS AND EN	
12000 GOVERNMENT CENTER PARKWAY, SUITE 4	449 FAIRFAX, VA., 22035-0052
R	CAPITAL FACILITIES

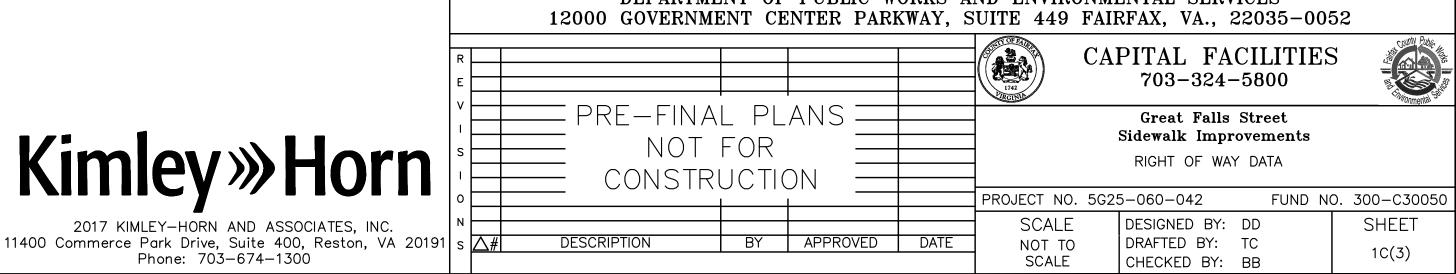
CAPITAL FACILITIES 703-324-5800 = PRE-FINAL PLANS = Great Falls Street Sidewalk Improvements RIGHT OF WAY DATA

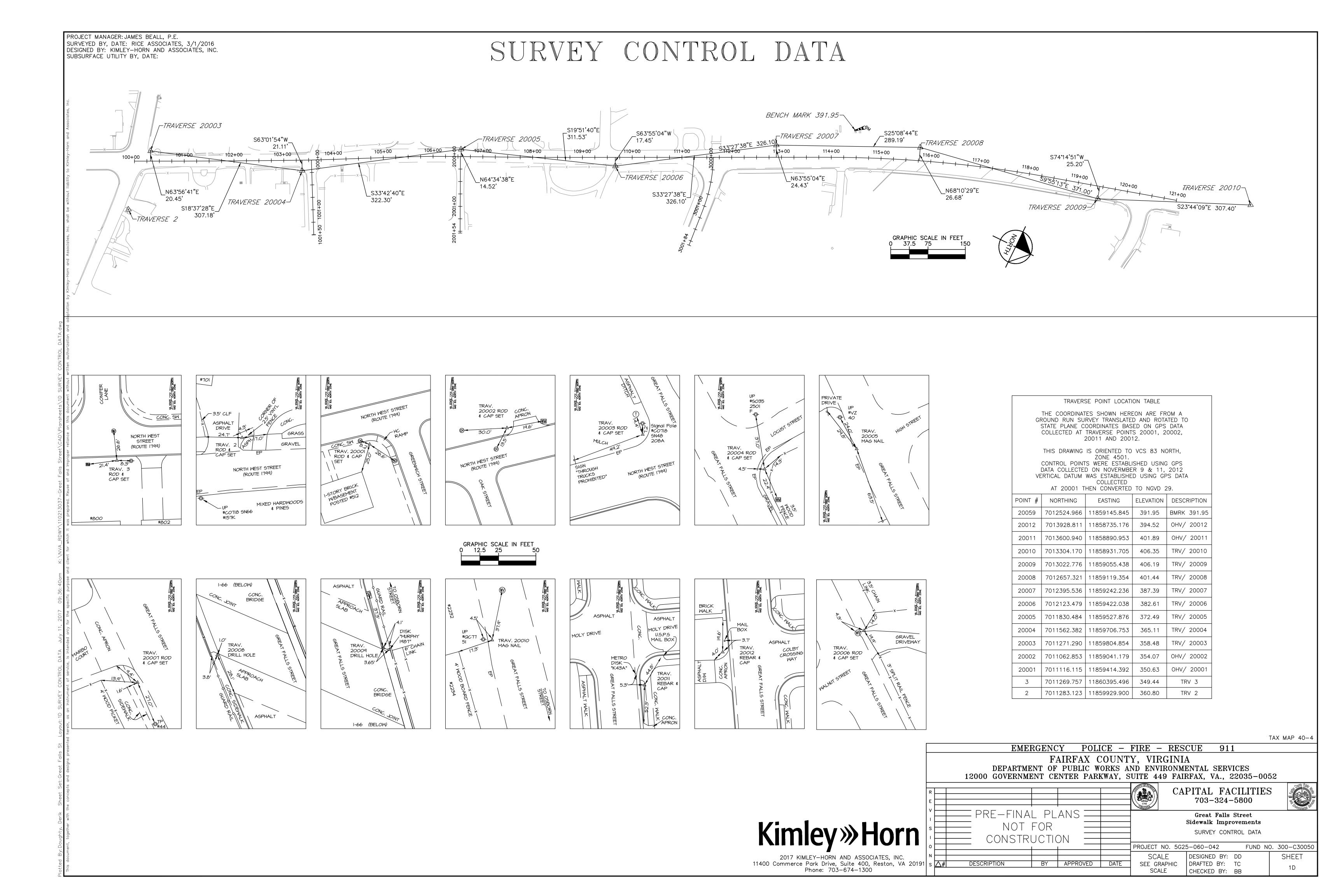
	PROJECT NO. 5G25	5-060-042		FUND N	O. 300-C30050
	C 1 -	DECIONED DV			CLIECT
	SCALE	DESIGNED BY:	טט		SHEET
E	SEE GRAPHIC	DRAFTED BY:	TC		1C(2)
	SCALE	CHECKED BY:	BB		10(2)

PROJECT MANAGER: JAMES BEALL, P.E. SURVEYED BY, DATE: RICE ASSOCIATES, 3/1/2016 OF WAY DATA SHEET DESIGNED BY: KIMLEY-HORN AND ASSOCIATES, INC. SUBSURFACE UTILITY BY, DATE: (40) (32) SPEER SUBDIVISION MOODLAMN GLEN SPEER SUBDIVISION SPEER SUBDIVISION DEPUTRON SUBDIVISION WEST FALLS CROSSING SECTION I, LOT LOTS 29, 30, RESUBDIVISION OF PART LOTS 69, 70, 71, 72 PART OF LOT 2 \$ PART LOT 6A D.B. 5772 PG. 880 31 \$ 32 LOTS 15, 16 \$ 17 D.B. 6227 PG. 1484 73, 74 \$ 75 LOT 76 \$ 77 PART OF LOT 3 D.B. 7700 PG. 245 TM# 0404-39-0001 D.B. F-10 PG. 451 D.B. W-6 PG. 402 F-9 PG. D.B. TM# 0404-35-0006A TM# 0404-13-0029 TM# 51-121-054 TM# 0404-13-0017A TM# 0404-13-0076 NYF MORGAN B. VETH NYF ROBERT AUGUSTINE ANDJASON C. ROBERTSON PAUL ALAN ZUCKER DUANE L. KISSICK KLARA K. SEVER, TRUSTEE OF THE \$ JACLYN L. ROBERTSON ANDREW H. VETH * JANICE ZUCKER & MARTHA M. KISSICK D.B. 7708 PG. 245 KLARA K. SEVER REVOCABLE INST. #20150100008238 D.B. 24049 PG. 994 D.B. 7796 PG. 492 D.B. 6829 PG.1639 TRUST DATED SEPTEMBER 12, 2011 D.B. 21860 PG. 1703 41 WEST FALLS CROSSING DEPUTRON SPEER SUBDIVISION N/F PART LOT 6 SUBDIVISION RESUBDIVISION OF JOHN D. LAWRENCE \$ DAHK'S ADDITION TO (25) D.B. 5624 PG. 420 PART OF LOT 3 MOUNT DANIEL - LOT 4 D.B. 1934 PG. 424 LOTS 15, 16 \$ 17 TM# 0404-35-0006 MARY ANN RALLS D.B. W-6 PG. 402 D.B. 6227 PG. 1484 D.B. 3029 PG. 1088 TM# 51-121-013 MOODCREST TM# 0404-13-0017B TM# 0404-27-0004 TM# 51-121-006 JESSICA C. STEWART & NZF LOT I NIF N/F ROHIT S. SATOSKAR \$ DAVID JOSEPH GAINER D.B. 908 PG. 93 JOHN JOSEPH DILLON EDWARD D. JOHNSON, REBECCA T. SATOSKAR D.B.24267 PG. 21 TM# 0404-21-0001 # MIRIAM DILLON TRUSTEES, THE EDWARD D. D.B. 4300 PG. 1913 NYF D.B. 11427 PG.1896 RYAN J. CONNELLY \$ JOHNSON TRUST, DATED SAMANTHA K. CONNELLY AUGUST 6, 1999 D.B.22824 PG. 1120 D.B. 20338 PG. 58 MEST FALLS CROSSING MERIDIAN PARK SHERMOOD SUBDIVISION LOT 5 LOT 35 BLOCK "N" D.B. 5624 PG. 420 659 PG. 380 LOT 20 BRILYN PARK TM# 0404-35-0005 TM# 0404-12-0035 1396 PG. 26 NYF LOT 2 TM# 51-121-024 MOODCREST JEANNE L. WHYTE, TRUSTEE 511 PG. 242 THU PHAM TRAN \$ NYF LOT 8 TM# 0404-05-0002 FREDERICK H. DEGNAN TONY THUAN VAN TRAN UNDER THE TRUST AGREEMENT 908 PG. 93 D.B. 9672 PG. 821 TM# 0404-21-0008 # JUDITH B. DEGNAN OF JEANNE L. WHYTE CLYDE ALLEN VANDERHOOF NYF D.B. 6759 PG.1526 D.B. 23792 PG. 293 # MARTHA F. VANDERHOOF CHRISTINA CHEUNG D.B. 2628 PG. 390 D.B. 9548 PG. 283 MERIDIAN PARK MAYNARD M. ERWIN (35) WEST FALLS CROSSING LOT 36 PROPERTY SUBDIVISION D.B. 659 PG. 380 LOT 2 LOT 4 BRILYN PARK TM# 0404-12-0036 D.B. 5624 PG. 420 D.B. 3695 PG. 269 MICHAEL LEE SMITH AND LOT 109 \$ 110 Ν̈́F TM# 0404-35-0004 TM# 51-209-008 BRIGITTE N. PETIT, CO-TRUSTEES 511 PG. 242 MICHAEL P. THOMAS NIF TM# 0404-05-0109 OF THE MICHAEL LEE SMITH LIVING ADRIENNE A. WHYTE SCOTT A. GAMES \$ # JENNIFER T. THOMAS TRUST, U/A DATED DECEMBER 12, BONNIE W. GAMES D.B. 13217 PG.400 2014 AND BRIGITTE N. PETIT ROBERT WILLIAM MORIARTY \$ D.B. 5669 PG. 579 D.B. 4197 PG.1410 AND MICHAEL LEE SMITH MARY FRANCES O. C. MORIARTY D.B. 2046 PG. 89 CO-TRUSTEES OF THE (13)BRIGITTE N. PETIT LIVING TRUST, U/A DATED DECEMBER 12, SHERMOOD SUBDIVISION MAYNARD M. ERWIN SPEER SUBDIVISION 2014 BLOCK "N" PROPERTY SUBDIVISION BRILYN PARK LOTS 6, 7 \$ D.B. 23959 PG. 662 LOT 21A LOT 1 TM# 0404-01-0027 PART OF LOT 5 LOT I D.B. 3695 PG. 269 D.B. 1396 PG. 26 F-9 PG. 53 TM# 0404-01-0030 TM# 51-121-023 511 PG. 242 TM# 0404-13-0006 NYF NYF N/F JERRY A. WOLFORD MICHAEL A. SHAW \$ JUAN ESPINOZA S. GEORGE ABURDEINEH # CRYSTAL MOLFORD PATRICIA J. SHAW N/F \$ SAMIA S. ABURDEINEH D.B. 16361 PG. 172 D.B. 14662 PG. 110 D.B. 4052 PG. 154 ANN ELIZABETH BARKLEY TM# 0404-05-0001 D.B. 22213 PG. 585 W.B. 394 PG. 854 (14)D.B. W-13 PG. 314 MEST FALLS CROSSING TM# 0404-01-0026 SPEER SUBDIVISION Z. B. GROVES SUBDIVISION LOT 2A d.b. 5624 pg. 420 LOTS 3, 4 & SPEER SUBDIVISION LOT 29 D.B. C-13 PG. 174 PART OF LOT 5 D.B. F-9 PG. 53 (29) TM# 0404-35-0002A LOTS 8, 9, TM# 0404-04-0029 10 # 11 TM# 0404-13-0003 DANIEL L. LARCAMP F-9 PG. N/F TM# 0404-13-0008 \$ SUSAN F. LARCAMP LIN QI & LEONEL MAXIMILIANO JEREZ EUGENE F. GALVIN NIF D.B. 6962 PG. 263 MEIMEN GU D.B. 24327 PG. 751 * MARY GALVIN N EDGENOOD, D.B. 19793 PG. 814 D.B. 6724 PG.1673 LLCTM# 0404-01-0026 D.B. 24518 PG. 1951 30 DEPUTRON SUBDIVISION SPEER SUBDIVISION LOT I & PART OF LOT 2 WEST FALLS CROSSING LOT I & N/F D.B. W-6 PG. 402 SPEER SUBDIVISION LOT 3A-I LOT 2 D.B. F-9 PG. 53 BRIAN M. KROPP AND TM# 51-121-008 D.B. 5652 PG. 923 LOTS 25, 26, ELAINE K. TURVILLE, TM# 0404-35-0003A1 27 \$ 28 BRADLEY S. PARKER TM# 0404-13-0002 TRUSTEES UNDER THE D.B. F-10 PG. 451 NIF & DEENA J. PARKER RICHARD KLEIN \$ TM# 0404-13-0025 KROPP FAMILY TRUST DEBORAH L. GILPIN INST. #20150100015420 JOYCE N. MIGDALL DATED JUNE 30, 2014 # KERRY S. GILPIN D.B. 11623 PG. 1671 D.B. 23742 PG. 1913 D.B. 18666 PG. 828 SAMUEL R. PEALE, TRUSTEE OF THE TM# 0404-01-0025 (39) SAMUEL R. PEALE REVOCABLE TRUST DATED APRIL 9, 2001 & (16 (8) DAHNK'S ADDITION TO ANNE M. MORRISON, TRUSTEE OF THE MOUNT DANIEL - LOT 5 ANNE M. MORRISON REVOCABLE TRUST SPEER SUBDIVISION WEST FALLS CROSSING D.B. 1934 PG. 424 LOT 12, 13 DATED APRIL 9, 2001 SPEER SUBDIVISION TM# 0404-27-0005 LOT IA D.B. 5624 PG. 420 & LOT 14 D.B. F-9 PG. 53 D.B. 11844 PG. 519 PART LOTS 69, 70 TM# 0404-35-0001A WILLIAM C. HORRIGAN 71, 72, 73, 74 \$ 75 D.B. F-9 PG. 53 NYF TM# 0404-13-0012 \$ MARY CATHERINE L NIF ROBERT AUGUSTINE TM# 0404-13-0070 HORRIGAN SCOTT FREDERICK LISMAN D.B. 10939 PG. 1555 # DENISE BLANCHER LISMAN D.B. 6479 PG.230 6712 HIGH STREET D.B. 21639 PG.1001 ASSOCIATES, LLC D.B. 19032 PG. 130 TAX MAP 40-4 EMERGENCY POLICE - FIRE - RESCUE 911 FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052 CAPITAL FACILITIES

2017 KIMLEY-HORN AND ASSOCIATES, INC.

Phone: 703-674-1300





	GREAT FALLS STREET												
NO.	LENGTH	PC	PT	DELTA	CHORD DIRECTION	TANGENT	LENGTH	RADIUS	START N	START E	END N	END E	DIRECTION
C1	84.00'	103+15.64	103+99.64	Δ=1° 31' 09"	N27° 20' 57.65"W	42.002	83.999	3168.205	7011534.1166	11859697.3737	11859658.7844	11859658.7844	
C2	107.28	105+27.55	106+34.84	Δ=2° 41' 10"	N26° 45' 57.06"W	53.652	107.285	2288.436	7011721.5481	11859598.5196	11859550.2089	11859550.2089	
С3	61.72'	107+80.94	108+42.66	Δ=0° 39' 34"	N25° 45' 08.98"W	30.859	61.717	5362.787	7011949.2851	11859487.4871	11859460.6720	11859460.6720	
C4	450.72	113+91.17	118+41.89	Δ=10° 19' 47"	N20° 55' 02.38"W	225.972	450.719	2500.000	7012497.5287	11859219.5120	11859058.8139	11859058.8139	
C5	100.00'	100+97.79	101+97.79	Δ=0° 32' 04"	N26° 19' 21.05"W	50.000	100.000	10717.988	7011339.0969	11859794.4672	11859750.1251	11859750.1251	
L1	127.91						127.910		7011608.7243	11859658.7844	7011721.5481	11859598.5196	N28° 06' 32.02"W
L2	146.10						146.104		7011817.3288	11859550.2089	7011949.2851	11859487.4871	N25° 25' 22.09"W
L3	548.51						548.515		7012004.8724	11859460.6720	7012497.5287	11859219.5120	N26° 04' 55.88"W
L4	258.11						258.106		7012917.9740	11859058.8139	7013166.3869	11858988.7426	N15° 45' 08.87"W
L5	97.79'						97.790		7011251.2451	11859837.4203	7011339.0969	11859794.4672	N26° 03' 18.81"W
L6	117.85'						117.854		7011428.7278	11859750.1251	7011534.1166	11859697.3737	N26° 35' 23.28"W

ENTRANCE STA. 10+00 NO. LENGTH PC PT DELTA CHORD DIRECTION TANGENT LENGTH RADIUS START N START E END N END E DIRECTION													
NO. LENG	GTH	PC	PT	DELTA	CHORD DIRECTION	TANGENT	LENGTH	RADIUS	START N	START E	END N	END E	DIRECTION
L9 29.4	43'						29.435		7011363.9529	11859782.2747	7011376.9500	11859808.6846	N63° 47' 48.39"E

						ENTR	ANCE S	TA. 20+	00				
NO. LENGTH PC PT DELTA CHORD DIRECTION TANGENT LENGTH RADIUS START N START E END N END E DIRECTION												DIRECTION	
L10	29.54						29.542		7011389.7900	11859769.4644	7011402.8141	11859795.9808	N63° 50' 27.49"E

						ENTR	ANCE S	TA. 30+	00				
NO	NO. LENGTH PC PT DELTA CHORD DIRECTION TANGENT LENGTH RADIUS START N START E END N END E DIRECTION												DIRECTION
L11	L11 46.41' 46.41' 7011455.6840 11859736.6324 7011476.1671 11859778.2790 N63' 48' 38.55"E												

						L	OCUST S	STREET					
NO.	LENGTH	PC	PT	DELTA	CHORD DIRECTION	TANGENT	LENGTH	RADIUS	START N	START E	END N	END E	DIRECTION
L12													

CONSTRUCTION ALIGNMENT DATA

	ENTRANCE STA. 40+00													
NO.	NO. LENGTH PC PT DELTA CHORD DIRECTION TANGENT LENGTH RADIUS START N START E END N END E DIRECTION													
L13	L13 45.98' 7011675.8765 11859622.9151 7011697.3984 11859663.5465 N62° 05' 25.61"E													

							HIGH ST	REET					
NO.	NO. LENGTH PC PT DELTA CHORD DIRECTION TANGENT LENGTH RADIUS START N START E END N END E DIRECTION											DIRECTION	
L14	160.15												

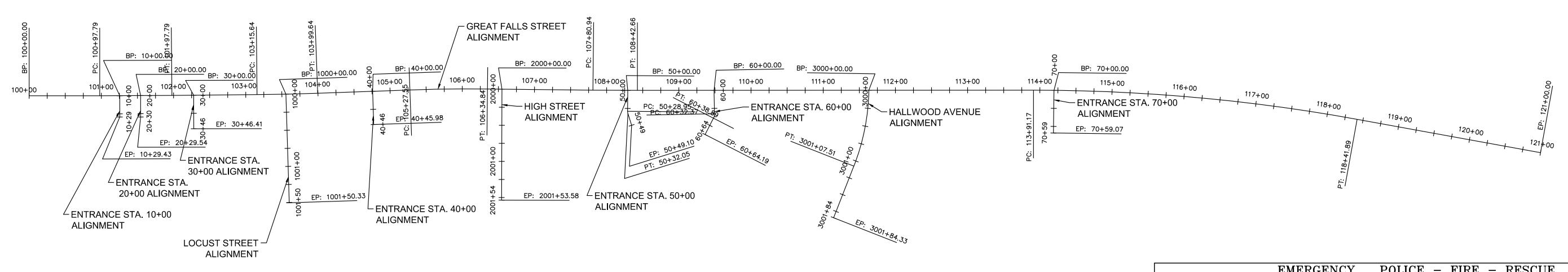
	ENTRANCE STA. 50+00													
NO.	LENGTH PC PT DELTA CHORD DIRECTION TANGENT LENGTH RADIUS START N START E END N END E DIRECTION													
C7	3.10' 50+28.95 50+32.05 △=17° 45' 37" N55° 32' 50.33"E 1.562 3.100 10.000 7012005.3403 11859492.6511 11859495.1969 11859495.1969													
L15	28.95'						28.946		7011992.8456	11859466.5406	7012005.3403	11859492.6511	N64° 25' 38.59"E	
L16	17.06' 17.058 7012007.0869 11859495.1969 7012018.7926 11859507.6045 N46' 40' 02.08"E													

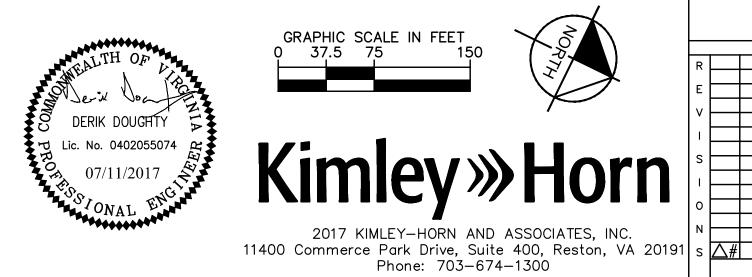
	ENTRANCE STA. 60+00													
NO.	LENGTH	PC	PT	DELTA	CHORD DIRECTION	TANGENT	LENGTH	RADIUS	START N	START E	END N	END E	DIRECTION	
C8	6.52'	60+32.37	60+38.89	Δ=28° 11' 25"	N76° 58' 40.63"E	3.329	6.523	13.259	7012114.8996	11859442.8105	11859449.1023	11859449.1023		
L17	32.37'						32.370		7012100.1448	11859413.9984	7012114.8996	11859442.8105	N62° 52' 58.12"E	
L18	25.29'						25.294		7012116.3547	11859449.1023	7012115.8810	11859474.3916	S88° 55′ 36.86″E	

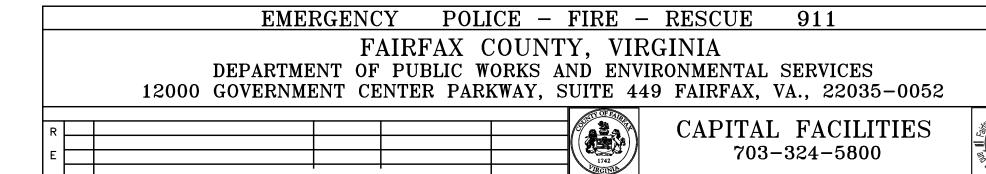
	HALLWOOD												
NO.	LENGTH	PC	PT	DELTA	CHORD DIRECTION	TANGENT	LENGTH	RADIUS	START N	START E	END N	END E	DIRECTION
C9	107.51	0+00.00	1+07.51	Δ=20° 31′ 56″	N75° 07' 26.60"E	54.336	107.507	300.000	7012292.6953	11859319.7799	11859423.1283	11859423.1283	
L19	76.83'						76.826		7012320.1477	11859423.1283	7012326.3222	11859499.7062	N85° 23′ 24.67″E

	ENTRANCE STA. 70+00												
N	D. LENGTH	PC	PT	DELTA	CHORD DIRECTION	TANGENT	LENGTH	RADIUS	START N	START E	END N	END E	DIRECTION
L	20 59.07'						59.072		7012523.1486	11859207.1510	7012548.3925	11859260.5579	N64° 42' 04.49"E

DESCRIPTION







Great Falls Street Sidewalk Improvements CONSTRUCTION ALIGNMENT DATA

		PROJECT NO. 5G25	5-060-042		FUND	NO.	300-C30050
		SCALF	DESIGNED BY:	חח			SHFFT
		0 0, 122					SIILLI
ΈD	DATE	SEE GRAPHIC	DRAFTED BY:	TC			1F
		SCALE	CHECKED BY:	BB			1 L

TAX MAP 40-4

GENERAL NOTES

- 1. TMP/SOC TYPE A PROJECT INFORMATION:
 - A. IDENTIFY THE PROJECT'S TMP TYPE: THIS PROJECT'S TMP/SOC PLAN HAS BEEN DESIGNED IN CONFORMANCE WITH A TYPE A TMP/SOC PLAN,
 - B. IDENTIFY THE WORK ZONE LOCATION, LENGTH, AND WIDTHS: THE PROJECT LOCATION IS AS SHOWN ON SHEET 1

THE WORK ZONE AREAS HAVE BEEN DELINEATED AS SHOWN ON THE TMP/SOC PLAN SHEET 1G(2)-1G(5). THE WORK ZONE LENGTHS AND WIDTHS VARY BY LOCATION AS SHOWN ON THE TMP/SOC PLAN SHEET 1G(2)-1G(5).

C. NOTE THE HOURS THE CONSTRUCTION AREA WILL BE ACTIVE:

CONSTRUCTION AREA SHALL BE CONSIDERED ACTIVE WHEN ANY IMPACT TO TRAFFIC OCCURS (1ST CONE IN

CONSTRUCTION AREA HOURS HAVE THE FOLLOWING LIMITATIONS:

	LANE CLOSURES (NON MAJOR ARTERIAL)							
	MONDAY TO THURSDAY FRIDAY SATURDAY SUNDAY							
DAY TIME	9:30AM to 3:30PM	9:30AM to 2:00PM	*NOT ALLOWED	*NOT ALLOWED				
NIGHT TIME	*NOT ALLOWED	*NOT ALLOWED	*NOT ALLOWED	*NOT ALLOWED				
* NIGHT TIME	AND WEEKEND WORK SH	IALL NOT BE ALLOWED	UNLESS APPROVED BY	VDOT.				

NO LANE CLOSURES WILL BE ALLOWED FROM NOON ON THE DAY BEFORE A HOLIDAY UNTIL NOON ON THE WORKDAY FOLLOWING THE HOLIDAY. HOLIDAYS INCLUDE ALL STATE AND FEDERAL HOLIDAYS.

DESIGNATION OF PEAK HOUR TIMES:

PEAK HOURS ARE 6:00AM THROUGH 9:00AM AND 3:30PM THROUGH 6:30PM.

- D. THE TMP/SOC PLAN, DURING CONSTRUCTION, SHALL BE IN ACCORDANCE WT1H SECTIONS 512, 701, 703 & 704 OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS, DATED 2007; THE VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) DATED AUGUST 2011 AND UPDATED APRIL 2015; THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009; THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, DATED 2011; AND IIM-LD-241.5 OF THE INSTRUCTIONAL AND INFORMATIONAL MEMORANDA.
- NOTE ANY EXISTING ENTRANCES, EXISTING INTERSECTIONS, OR EXISTING PEDESTRIAN ACCESS POINTS THAT WILL BE AFFECTED BY THE CONSTRUCTION AREA OR BY THE TRAFFIC CONTROL DEVICES:

THERE ARE SEVEN PRIVATE ENTRANCES WITHIN THE PROJECT LIMITS. THE FIRST AND SECOND ARE A DOUBLE ENTRANCE IN THE FORM OF A CIRCULAR CONCRETE DRIVEWAY AT APPROXIMATE STATIONS 102+25 AND 102+50. THE THIRD IS AN ASPHALT DRIVEWAY AT APPROXIMATE STATION 103+25. THE FOURTH IS AN ASPHALT ENTRANCE AT APPROXIMATE STATION 105+75. THE FIFTH AND SIXTH ARE GRAVEL ENTRANCES THAT SERVE THE SAME PROPERTY IN A CIRCULAR ENTRANCE AT APPROXIMATE STATIONS 109+25 AND 110+50. THE SEVENTH ENTRANCE IS AN ASPHALT DRIVEWAY AT APPROXIMATE STATION 115+25. EXCEPT FOR DRIVEWAY RECONSTRUCTION, ALL ENTRANCES ARE TO REMAIN OPEN AND FUNCTIONAL DURING CONSTRUCTION. DURING DRIVEWAY RECONSTRUCTION, CONTRACTOR TO WORK WITH THE PROPERTY OWNER TO ESTABLISH A MUTUALLY AGREEABLE SCHEDULE TO CLOSE THE ENTRANCE.

EXISTING INTERSECTIONS:

THE GREAT FALLS STREET AND NORTH WEST STREET INTERSECTION IS AT APPROXIMATE STATION 101+00, THE GREAT FALLS STREET AND LOCUST STREET INTERSECTION IS AT APPROXIMATE STATION 104+50, THE GREAT FALLS STREET AND CREST PLACE INTERSECTION IS AT APPROXIMATE STATION 106+50. THE GREAT FALLS STREET AND HIGH STREET INTERSECTION IS AT APPROXIMATE STATION 107+50, THE GREAT FALLS STREET AND WALNUT STREET IS AT APPROXIMATE STATION 110+50, THE GREAT FALLS STREET AND HALLWOOD AVENUE INTERSECTION IS AT APPROXIMATE STATION 112+75, THE GREAT FALLS STREET AND MARBO COURT INTERSECTION IS AT APPROXIMATE STATION 114+00. THE GREAT FALLS STREET AND WOODLAND DRIVE INTERSECTION IS AT APPROXIMATE STATION 115+25, AND THE GREAT FALLS STREET AND OSBORN STREET INTERSECTION IS AT APPROXIMATE STATION 121+25. ALL INTERSECTIONS ARE TO REMAIN IN OPERATION DURING THE DURATION OF CONSTRUCTION EXCEPT DURING THE PHASES NOTED IN THE NARRATIVE.

EXISTING PEDESTRIAN ACCESS POINTS:

THERE ARE NO PEDESTRIAN ACCESS POINTS WITHIN THE PROJECT LIMITS. THERE IS AN EXISTING CONCRETE WALKWAY TO THE EAST OF THE PROJECT LIMITS BETWEEN HALLWOOD AVENUE AND THE NORTHERN LIMITS OF THE BRIDGE OVER I-66. THE BRIDGE ALSO HAS A SIDEWALK ON THE WEST SIDE OF THE PROJECT. ALL PEDESTRIANS ARE TO BE DIVERTED AWAY FROM THE WORK ZONE DURING CONSTRUCTION.

EXISTING BUS STOPS:

THERE ARE NO BUS STOPS WITHIN THE PROJECT LIMITS.

F. IDENTIFY THE MAJOR TYPES OF TRAVELERS:

THE TRAFFIC ON THE ROADWAY CONSISTS PRIMARILY OF PASSENGER VEHICLES WITH SOME PEDESTRIANS ON THE ROAD. THE SURROUNDING AREA IS RESIDENTIAL.

G. THE CONTRACTOR SHALL:

DESIGNATE A PERSON ASSIGNED TO THE PROJECT WHO WILL HAVE THE PRIMARY RESPONSIBILITY, WITH SUFFICIENT AUTHORITY, FOR IMPLEMENTING THE TMP/SOC AND OTHER SAFETY AND MOBILITY ASPECTS OF THE PERMIT WORK. THIS PERSON SHALL COORDINATE WITH THE FAIRFAX COUNTY CONSTRUCTION INSPECTOR FOR THE DURATION OF CONSTRUCTION.

ENSURE THAT PERSONNEL ASSIGNED TO THE PROJECT ARE TRAINED IN TRAFFIC CONTROL TO A LEVEL COMMENSURATE WITH THEIR RESPONSIBILITIES IN ACCORDANCE WITH VDOT'S WORK ZONE TRAFFIC CONTROL TRAINING GUIDELINES.

INFORM THE ENGINEER OF ANY WORK REQUIRING LANE SHIFTS, LANE CLOSURES, AND/OR PHASE CHANGES A MINIMUM OF TWO WORKING DAYS PRIOR TO IMPLEMENTING THIS ACTIVITY.

PERFORM REVIEWS OF THE CONSTRUCTION AREA TO ENSURE COMPLIANCE WITH CONTRACT DOCUMENTS AT REGULARLY SCHEDULED INTERVALS AT THE DIRECTION OF THE ENGINEER. CONTRACTOR SHALL MAINTAIN AN APPROVED COPY OF THE TEMPORARY TRAFFIC CONTROL PLAN AT THE WORK SITE AT ALL TIMES.

COORDINATE WITH FAIRFAX COUNTY POLICE DEPARTMENT AND FAIRFAX COUNTY FIRE/RESCUE DEPORTMENT FOR ANY LANE CLOSURES AND ANY DETOURS OF ANY NATURE.

SCHEDULE ALL PHASES OF CONSTRUCTION IN SUCH A MANNER THAT WATER, SANITARY SEWER, CABLE, FIBER CABLE/OPTIC CABLE, ANY OVERHANGING UTILITIES, AND ANY UNDERGROUND UTILITIES SERVICES WILL NOT BE INTERRUPTED.

- 2. THIS TMP/SOC PLAN IS INTENDED AS A GUIDE. IT IS NOT TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH PHASE, BUT ONLY TO SHOW THE GENERAL HANDLING OF EXISTING TRAFFIC. IF THE CONTRACTOR IS TO DEVIATE FROM THE APPROVED TMP, A NEW OR REVISED TMP MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 3. CONTRACTOR IS TO MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION ON NORTH WEST STREET, GREAT FALLS STREET, HALLWOOD AVENUE, AND OSBORN STREET DURING CONSTRUCTION OF THIS PROJECT WITH A MINIMUM CLEAR ROADWAY WIDTH NO LESS THAN EXISTING CONDITIONS UNLESS OTHERWISE APPROVED BY THE ENGINEER. FOR STREET INTERSECTIONS, A MINIMUM WIDTH NO LESS THAN EXISTING WIDTH SHALL BE MAINTAINED AT ALL TIMES, UNLESS APPROVED BY THE ENGINEER.
- 4. ALL AREAS EXCAVATED BELOW THE EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACKFILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE EXISTING PAVEMENT OR NEWLY CONSTRUCTED PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC.
- 5. EACH PHASE OF CONSTRUCTION SHALL BE COMPLETED TO THE INSTALLATION OF INTERMEDIATE COURSE ASPHALT PRIOR TO THE START OF THE NEXT PHASE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 6. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADD ANY ADDITIONAL TEMPORARY MEASURES NECESSARY TO FACILITATE PROPER. POSITIVE DRAINAGE FOR THE DURATION OF CONSTRUCTION.
- 7. UNLESS SPECIFIED ON THE PLANS, ALL EXISTING TURN LANES SHALL BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
- 8. WHERE GROUP 2 CHANNELIZING DEVICES ARE USED TO SEPARATE THE CONSTRUCTION AREA AND TRAFFIC. A MINIMUM CLEAR ZONE AREA AS DEFINED IN THE VWAPM IS TO BE MAINTAINED.
- 9. THE CONTRACTOR IS TO COORDINATE WITH FAIRFAX COUNTY FOR LOCATION(S) OF THE CONSTRUCTION STAGING AREA. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY.

10. IMPLEMENTING THE TRANSPORTATION MANAGEMENT PLAN

DURING THE FIRST DAY OF THE NEW WORK ZONE TRAFFIC PATTERN, THE PROJECT'S MANAGER AND PROJECT'S CONSTRUCTION INSPECTOR SHALL INSPECT THE WORK ZONE TO ENSURE COMPLIANCE WITH THE TMP. ON THE THIRD TO FIFTH DAY OF IMPLEMENTATION OF THE TMP'S NEW WORK ZONE TRAFFIC PATTERN, THE CONSTRUCTION INSPECTOR SHALL CONDUCT AN ON-SITE REVIEW OF THE WORK ZONE'S PERFORMANCE IN COORDINATION WITH VDOT AND RECOMMEND TO THE CONTRACTOR ANY REQUIRED CHANGES TO THE TMP TO ENHANCE THE WORK ZONE'S SAFETY AND MOBILITY. ALL SUCH CHANGES SHALL BE DOCUMENTED. AN ON-SITE REVIEW OF THE PROJECT'S WORK ZONE TRAFFIC CONTROL BY THE COUNTY'S CONSTRUCTION INSPECTOR AND THE CONTRACTOR SHALL BE CONDUCTED (WITH COORDINATION FROM VDOT) WITHIN 48 HOURS OF ANY FATAL ACCIDENT/CRASH WITHIN THE WORK ZONE.

11. EVALUATION OF THE TRANSPORTATION MANAGEMENT PLAN

A PERFORMANCE ASSESSMENT OF THE TMP INCLUDING AREA-WIDE IMPACTS ON ADJACENT ROADWAYS SHALL BE PERFORMED BY FAIRFAX COUNTY WITH COORDINATION FROM THE ENGINEER DURING CONSTRUCTION. AS CIRCUMSTANCES DICTATE, A REVIEW OF THE OVERALL EFFECTIVENESS OF THE PROJECT'S TMP SHALL BE COMPLETED DURING THE POST CONSTRUCTION MEETING AND INCLUDED WITH THE POST CONSTRUCTION REPORT. A COPY OF THE SPECIFIC INFORMATION ON THE EFFECTIVENESS OF THE TMP WILL BE FORWARDED TO FAIRFAX COUNTY FOR REVIEW. A COPY OF THE TMP INTERIM/POST CONSTRUCTION REPORT FORM CAN BE OBTAINED FROM FAIRFAX COUNTY.

12. PUBLIC COMMUNICATIONS PLAN THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- A. NOTIFYING THE PROJECT MANAGER AND CONSTRUCTION INSPECTOR TWO WEEKS IN ADVANCE OF ANY SCHEDULE WORK PLANS AND TRAFFIC DELAYS.
- B. NOTIFYING THE PROJECT MANAGER. CONSTRUCTION INSPECTOR. AND CORRESPONDING ENGINEER OF ANY UNSCHEDULED TRAFFIC DELAYS

14. TRANSPORTATION OPERATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND PROVIDING THE FOLLOWING:

- A. NOTIFY THE REGIONAL TRANSPORTATION OPERATIONS CENTER (TOC) ONE WEEK IN ADVANCE (USUALLY THE WEDNESDAY PRIOR TO THE REQUESTED OPERATION), IN ORDER TO PLACE LANE CLOSURE INFORMATION ON THE 511 SYSTEM AND VA-TRAFFIC.
- B. POST A LIST OF LOCAL EMERGENCY RESPONSE AGENCIES INSIDE THE PROJECT'S CONSTRUCTION OFFICE/TRAILER.
- C. IMMEDIATELY REPORT ANY TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE.
- D. NOTIFY THE PROJECT'S CONSTRUCTION INSPECTOR AND CORRESPONDING ENGINEER OF ANY NEW INCIDENTS AND EXPECTED TRAFFIC DELAYS.
- E. WITHIN 24 HOURS OF ANY INCIDENTS WITHIN THE CONSTRUCTION WORK ZONE, A REVIEW OF THE TRAFFIC CONTROLS SHALL BE COMPLETED AND NECESSARY ADJUSTMENTS MADE TO REDUCE THE FREQUENCY AND SEVERITY OF ANY FUTURE INCIDENTS.

CONTACT NUMBERS:

COUNTY PROJECT MANAGER COUNTY CONSTRUCTION MANAGER COUNTY CONSTRUCTION INSPECTOR EMERGENCY CALL NON-EMERCENCY NUMBERS: FAIRFAX COUNTY POLICE FAIRFAX COUNTY FIRE & RESCUE

JIM BEALL (703) 877-5600 TBD TBD 911

(703) 246-2253 (703) 246-2126

2017 KIMLEY-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400, Reston, VA 20191 s 🖊 # Phone: 703-674-1300

GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL-APRIL 2015.
- CONTRACTOR SHALL INSTALL PROJECT LIMIT SIGNS ON GREAT FALLS STREET AND ALL SIDE STREETS IN ACCORDANCE WITH VWAPM TTC-53.0. THESE SIGNS ARE TO REMAIN IN PLACE FOR THE DURATION OF ALL PHASES OF CONSTRUCTION UNLESS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS DURING BOTH WORK AND NON-WORK HOURS TO ENSURE THE PROTECTION AND SAFETY OF THE ADJACENT PROPERTY OWNERS, PEDESTRIANS, VEHICULAR TRAFFIC AND THE GENERAL PUBLIC FROM ANY CONSTRUCTION RELATED ACTIVITY, CONSTRUCTION EQUIPMENT AND THE CONSTRUCTION SITE ITSELF.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE.
- UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE FOLLOWING:

PHASE 1:

- 1. CONTRACTOR IS TO IMPLEMENT VWAPM TTC-23.1 AND TTC-28.1 DURING ALLOWABLE HOURS TO CONSTRUCT THE PROPOSED CURB AND GUTTER. STORM SEWER. AND SIDEWALK ALONG GREAT FALLS STREET AS WELL AS ALL OTHER RELATED ACTIVITIES FOR THE AREA AS SHOWN AS CONSTRUCTION WORK ZONE PHASE 1 ON SHEET 1G(2)
- CONTRACTOR SHALL ENSURE 10' MINIMUM LANES AT ALL TIMES DURING CONSTRUCTION. 3. FOR THE CONSTRUCTION OF PIPE UNDER HIGH STREET AND LOCUST STREET, CONTRACTOR SHALL IMPLEMENT VWAPM TTC-34.1 TO CLOSE EITHER HIGH STREET OR LOCUST STREET, BUT NOT BOTH AT THE SAME TIME, DURING CONSTRUCTION. CONTRACTOR SHALL DETOUR TRAFFIC VIA WALNUT STREET AND EITHER HIGH STREET OR LOCUST STREET. CONTRACTOR SHALL NOT BLOCK ANY ENTRANCES AND SHALL PROVIDE RESIDENTS WITH
- ADEQUATE WARNING OF THE UPCOMING TEMPORARY DETOUR. CONTRACTOR SHALL BUILD UP PROPOSED FULL DEPTH PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE LAYER. FINAL ROADWAY SURFACING IS TO BE CONDUCTED IN PHASE 6.

PHASE 2:

- CONTRACTOR IS TO IMPLEMENT VWAPM TTC-23.1 AND TTC-28.1 DURING ALLOWABLE HOURS TO CONSTRUCT THE PROPOSED CURB AND GUTTER, STORM SEWER, AND SIDEWALK ALONG GREAT FALLS STREET AS WELL AS ALL OTHER RELATED ACTIVITIES FOR THE AREA AS SHOWN AS CONSTRUCTION WORK ZONE PHASE 2 ON SHEET 1G(2) CONTRACTOR SHALL ENSURE 10' MINIMUM LANES AT ALL TIMES DURING CONSTRUCTION.
- FOR THE CONSTRUCTION OF PIPE UNDER HIGH STREET AND LOCUST STREET, CONTRACTOR SHALL IMPLEMENT VWAPM TTC-34.1 TO CLOSE EITHER HIGH STREET OR LOCUST STREET, BUT NOT BOTH AT THE SAME TIME, DURING CONSTRUCTION. CONTRACTOR SHALL DETOUR TRAFFIC VIA WALNUT STREET AND EITHER HIGH STREET OR LOCUST STREET. CONTRACTOR SHALL NOT BLOCK ANY ENTRANCES AND SHALL PROVIDE RESIDENTS WITH ADEQUATE WARNING OF THE UPCOMING TEMPORARY DETOUR.
- CONTRACTOR SHALL BUILD UP PROPOSED FULL DEPTH PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE LAYER. FINAL ROADWAY SURFACING IS TO BE CONDUCTED IN PHASE 6.

PHASE 3:

- CONTRACTOR IS TO IMPLEMENT VWAPM TTC-23.1 AND TTC-28.1 DURING ALLOWABLE HOURS TO CONSTRUCT THE PROPOSED CURB AND GUTTER AND SIDEWALK ALONG GREAT FALLS STREET AS WELL AS ALL OTHER RELATED ACTIVITIES FOR THE AREA AS SHOWN AS CONSTRUCTION WORK ZONE PHASE 3 ON SHEET 1G(2)
- CONTRACTOR SHALL ENSURE 10' MINIMUM LANES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL BUILD UP PROPOSED FULL DEPTH PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE
- LAYER. FINAL ROADWAY SURFACING IS TO BE CONDUCTED IN PHASE 6.

PHASE 4:

- CONTRACTOR IS TO IMPLEMENT VWAPM TTC-23.1 AND TTC-28.1 DURING ALLOWABLE HOURS TO CONSTRUCT THE PROPOSED CURB AND GUTTER AND SIDEWALK ALONG GREAT FALLS STREET AS WELL AS ALL OTHER RELATED ACTIVITIES FOR THE AREA AS SHOWN AS CONSTRUCTION WORK ZONE PHASE 4 ON SHEET 1G(3)
- CONTRACTOR SHALL ENSURE 10' MINIMUM LANES AT ALL TIMES DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL BUILD UP PROPOSED FULL DEPTH PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE LAYER. FINAL ROADWAY SURFACING IS TO BE CONDUCTED IN PHASE 6.

PHASE 5:

- 1. CONTRACTOR IS TO IMPLEMENT VWAPM TTC-16.1 DURING ALLOWABLE HOURS TO CONSTRUCT THE PROPOSED CURB AND GUTTER AND SIDEWALK ALONG GREAT FALLS STREET AS WELL AS ALL OTHER RELATED ACTIVITIES FOR THE AREA AS SHOWN AS CONSTRUCTION WORK ZONE PHASE 5 ON SHEETS 1G(3)
- CONTRACTOR SHALL ENSURE 10' MINIMUM LANES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL BUILD UP PROPOSED FULL DEPTH PAVEMENT UP TO AND INCLUDING THE INTERMEDIATE
- LAYER. FINAL ROADWAY SURFACING IS TO BE CONDUCTED IN PHASE 6.

PHASE 6:

DESCRIPTION

- CONTRACTOR SHALL IMPLEMENT VWAPM TTC-59.1 AND ANY NECESSARY LANE CLOSURES WITHIN THE STANDARDS AND PRACTICES OF THE VWAPM TO MILL PAVEMENT AND APPLY THE FINAL ASPHALT SURFACE LAYER AS DELINEATED ON SHEETS 3-5.
- CONTRACTOR IS TO INSTALL PROPOSED PAVEMENT MARKINGS AS OUTLINED IN THE PAVEMENT MARKING PLAN ON SHEETS 6(1)-6(2).
- CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES UPON COMPLETION OF THE PROJECT.

BY APPROVED DATE

TAX MAP 40-4

SHEET

1G(1)

DESIGNED BY: DD

DRAFTED BY: TC

CHECKED BY: BB

SEE GRAPHIC

SCALE

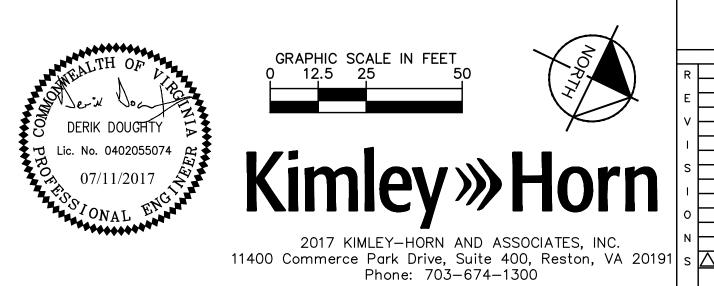
FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052 CAPITAL FACILITIES 703-324-5800 **Great Falls Street** Sidewalk Improvements TRANSPORTATION MANAGEMENT PLAN NOTES PROJECT NO. 5G25-060-042 FUND NO. 300-C30050

EMERGENCY POLICE – FIRE – RESCUE 911

LEGEND

CONSTRUCTION WORK ZONE

GROUP 1 CHANNELING DEVICE



·	EMEI	RGENC	Y POLI	CE –	FIRE - RES	CUE 911	1			
	FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052									
	CAPITAL FACILITIES 703-324-5800									
					Great Falls Street Sidewalk Improvements TEMPORARY TRAFFIC CONTROL					
					PROJECT NO. 5G2	5-060-042	FUND NO). 300-C30050		
					SCALE	DESIGNED BY:		SHEET		
<u> </u>	DESCRIPTION	BY	APPROVED	DATE	SEE GRAPHIC SCALE	DRAFTED BY: CHECKED BY:	TC BB	1G(2)		

PROJECT MANAGER: JAMES BEALL, P.E. SURVEYED BY, DATE: RICE ASSOCIATES, 3/1/2016
DESIGNED BY: KIMLEY—HORN AND ASSOCIATES, INC.
SUBSURFACE UTILITY BY, DATE: TEMPORARY TRAFFIC CONTROL TMP PHASE 4 TMP PHASE 5 115+00YELLOW STRIPI GREAT FALLS STREET CONSTRUCTION WORK ZONE PHASE 5 CONSTRUCTION WORK ZONE/PHASE 4 TMP PHASE 6 WHITE LINE GREAT FALLS STREET EX. ROW EX. ROW - CONSTRUCTION WORK -**ZONE PHASE 6** TAX MAP 40-4 EMERGENCY POLICE - FIRE - RESCUE 911 FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052 CAPITAL FACILITIES 703-324-5800 <u>LEGEND</u> Great Falls Street CONSTRUCTION WORK ZONE Sidewalk Improvements TEMPORARY TRAFFIC CONTROL CONSTRUCTION WORK ZONE MILL AND OVERLAY AND NEW PAVEMENT FUND NO. 300-C30050 PROJECT NO. 5G25-060-042 GROUP 1 CHANNELING DEVICE 2017 KIMLEY-HORN AND ASSOCIATES, INC.

11400 Commerce Park Drive, Suite 400, Reston, VA 20191

Phone: 703-674-1300 SHEET DESIGNED BY: DD BY APPROVED DATE DESCRIPTION SEE GRAPHIC DRAFTED BY: TC 1G(3) SCALE CHECKED BY: BB

PROJECT MANAGER: JAMES BEALL, P.E. SURVEYED BY, DATE: RICE ASSOCIATES, 3/1/2016 DESIGNED BY: KIMLEY—HORN AND ASSOCIATES, INC. SUBSURFACE UTILITY BY, DATE: TEMPORARY TRAFFIC CONTROL TMP PHASE 6 EX. ROW____ EX. ROW 109+00 115+00YELLOW STRIPIN EX. ROW -XEX. ROW X---X - CONSTRUCTION WORK **ZONE PHASE 6**

> FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052 CAPITAL FACILITIES 703-324-5800

EMERGENCY POLICE - FIRE - RESCUE 911

Great Falls Street Sidewalk Improvements

TAX MAP 40-4

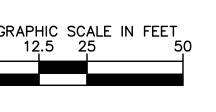
TEMPORARY TRAFFIC CONTROL

FUND NO. 300-C30050 PROJECT NO. 5G25-060-042 SHEET DESIGNED BY: DD BY APPROVED DATE DRAFTED BY: TC SEE GRAPHIC 1G(4) SCALE CHECKED BY: BB

<u>LEGEND</u>

CONSTRUCTION WORK ZONE

CONSTRUCTION WORK ZONE MILL AND OVERLAY AND NEW PAVEMENT



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11400 Commerce Park Drive, Suite 400, Reston, VA 20191
Phone: 703-674-1300

DESCRIPTION

Page 6H-14 **Typical Traffic Control**

Stationary Operation on a Shoulder (Figure TTC-4.1) **NOTES**

Standard

- 1. For long-term stationary work (more than 3 days) on divided highways having a median wider than 8', sign assemblies on both sides of the roadway shall be required as shown (ROAD WORK AHEAD (W20-1), RIGHT SHOULDER CLOSED AHEAD (W21-5bR), RIGHT SHOULDER CLOSED (W21-5aR)¹), even though only one shoulder is being closed. For operations less than 3 days in duration, sign assemblies will only be required on the side where the shoulder is being closed and a RIGHT SHOULDER CLOSED (W21-5aR)¹ sign shall be added to that side.
- Guidance 2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where

the posted speed limit is 45 mph or less. Option:

Standard:

- 3. The SHOULDER WORK (W21-5) sign on an intersecting roadway may be omitted where drivers
- emerging from that roadway will encounter another advance warning sign prior to this activity area. 4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity amber rotating, flashing, or oscillating lights is <u>used.</u>
- 5. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or oscillating, lights.
- 6. Taper length (L) and channelizing device spacing shall be at the following:

Taper Length (L)							
Speed Limit Lane Width (Feet)							
(mph)	9	10	11	12			
25	95	105	115	125			
30	135	150	165	180			
35	185	205	225	245			
40	240	270	295	320			
45	405	450	495	540			
50	450	500	550	600			
55	495	550	605	660			
60	540	600	660	720			
65	585	650	715	780			
70	630	700	770	840			
Minimum taper lengths for Limited Access highways shall be 1000 feet.							

Channelizing Device Spacing						
Location	Speed Limit (mph)					
Location	0 - 35	36 +				
Transition Spacing	20'	40'				
Travelway Spacing	40'	80'				
Construction Access* 80' 120'						
* Spacing may be increased to this distance,						

but shall not exceed one access per ¼ mile. On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled

- 7. The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.
- 8. A truck-mounted attenuator (TMA) shall be used on the shadow vehicle on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph for operations with a duration greater than 60 minutes.
- 9. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed. 1: Revision 1 – 4/1/2015

Page 6H-16 April 2015

Typical Traffic Control Shoulder Operation with Minor Encroachment (Figure TTC-5.1)

NOTES

April 2015

1. For required sign assemblies for multi-lane roadways see Note 1, TTC-4. Guidance

- 2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
- 3. When work takes up part of a lane on a high volume roadway; vehicular traffic volumes, vehicle mix, speed and capacity should be analyzed to determine whether the affected lane should be closed. Unless the lane encroachment analysis permits a remaining lane width of 10 feet, the lane should be closed. If the closure operation is on a Limited Access highway, the minimum lane width is 11 feet.

first work crew.

- 4. The ROAD WORK AHEAD (W20-1) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
- Standard: 5. A shadow vehicle with either an arrow board operating in the caution mode, or at least one highintensity amber rotating, flashing, or oscillating light shall be parked 80' - 120' in advance of the
- 6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or oscillating lights.
- 7. Taper length (L) and channelizing device spacing shall be at the following:

Taper Length (L) Speed Limit Lane Width (Feet)						
Speed Limit	L	ane Wid	ith (Fee	et)		
(mph)	9	10	11	12		
25	95	105	115	125		
30	135	150	165	180		
35	185	205	225	245		
40	240	270	295	320		
45	405	450	495	540		
50	450	500	550	600		
55	495	550	605	660		
60	540	600	660	720		
65	585	650	715	780		
70	630	700	770	840		
Minimum taper lengths for Limited Access highways shall be 1000 feet.						
Shoulde	r Taper	= 1/3 L N	linimum			

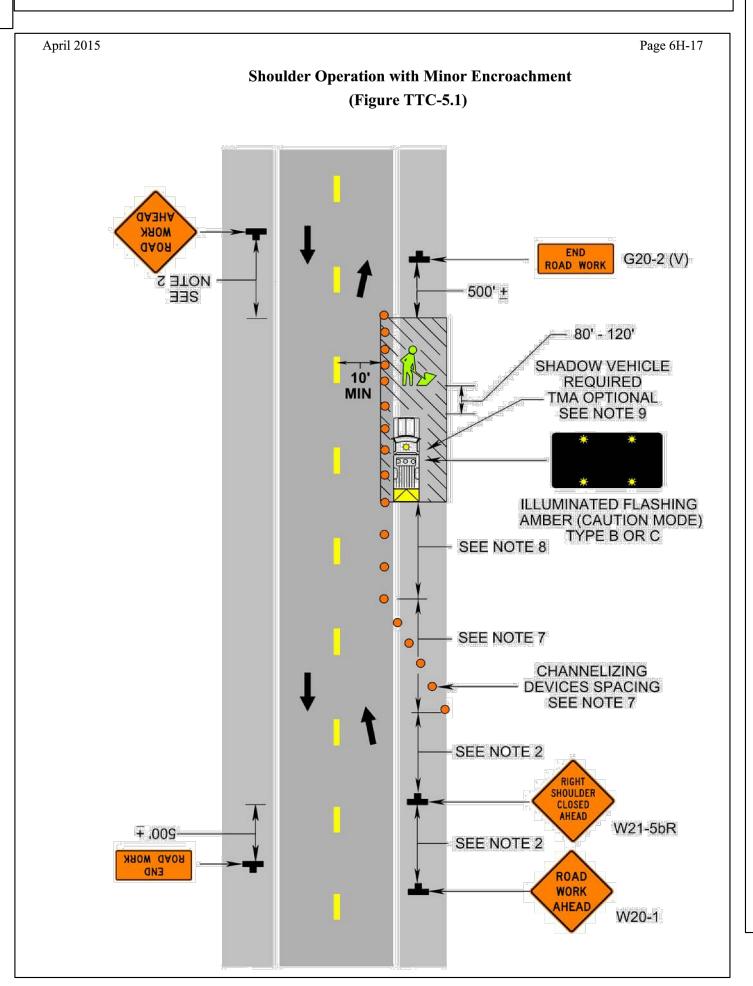
Channelizing Device Spacing					
Location	Speed Limit (mph)				
Location	0 - 35	36 +			
Transition Spacing	20'	40'			
Travelway Spacing	40'	80'			
Construction Access*	80'	120'			
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.					

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled

- 8. The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.
- 9. A truck-mounted attenuator (TMA) shall be used on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph.
- 10. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.

1: Revision 1 – 4/1/2015

April 2015 Page 6H-15 **Stationary Operation on a Shoulder** (Figure TTC-4.1) G20-2 (V) 80' - 120' SHADOW VEHICLE REQUIRED TMA REQUIREMENT SEE NOTE 8 ILLUMINATED FLASHING AMBER (CAUTION MODE) TYPE B OR C SEE NOTE 7 SEE NOTE 6 CHANNELIZING **DEVICES SPACING** SEE NOTE 6 SEE NOTE 1 SEE NOTE 2



Page 6H-52 April 2015

Typical Traffic Control Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.1)

NOTES

- 1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.
- 2. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.
- 3. Where Right-of-Way or geometric conditions prevent the use of 48" x 48" signs, 36" x 36" signs may be

Standard:

- 4. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).
- 5. All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).
- 6. Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.
- 7. A shadow vehicle with at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew.

Option: 8. A supplemental flagger may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.

- 9. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the portable temporary rumble strips (PTRS)¹, should be readjusted at greater distances.
- 10. When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).

Standard:

11. At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).

Option:

- 12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20
- 13. For low-volume situations with short work zones on straight roadways where the flagger is visible to
- road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

April 2015

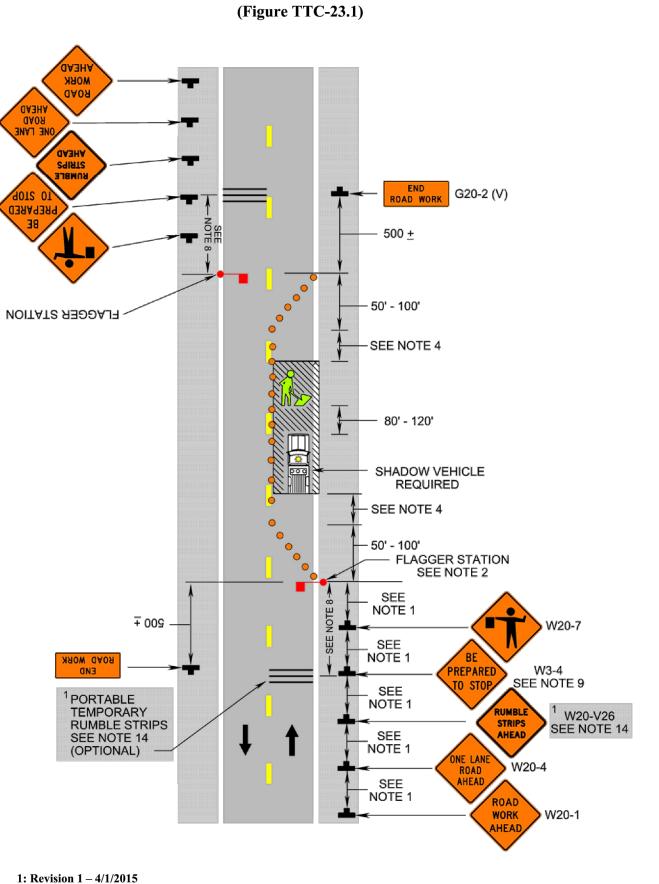
1: Revision 1 – 4/1/2015

14. When approved for use, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.

, 8		
osted Speed	0 - 35 mph	36 - 55 mph
TRS Spacing (Center to Center)	5 Feet	8 Feet

Page 6H-53

Lane Closure on a Two-Lane Roadway Using Flaggers



2017 KIMLEY-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400, Reston, VA 20191 s

Phone: 703-674-1300

Page 6H-38

Typical Traffic Control

Outside Lane Closure Operation on a Four-Lane Roadway (Figure TTC-16.1)

NOTES

- 1. On divided highways having a median wider than 8', right and left sign assemblies shall be
- 2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
- 3. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.
- 4. All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement.

5. Taper Length (L) and Channelizing Device Spacing shall be:

Minimum taper lengths for Limited Access

highways shall be 1000 feet.

Shoulder Taper = 1/3 L Minimum

Channelizing De		Taper Length (L)					
Location	et)	Lane Width (Feet)					
Location	12	11	10	9	(mph)		
Transition Spacing	125	115	105	95	25		
Travelway Spacing	180	165	150	135	30		
Construction Access*	245	225	205	185	35		
* Spacing may be increa	320	295	270	240	40		
but shall not exceed one	540	495	450	405	45		
On roadways with paved width of 8 feet or more,	600	550	500	450	50		
shall be used to clos	660	605	550	495	55		
advance of the mergi	720	660	600	540	60		
vehicular traffic to remai	780	715	650	585	65		
way.	840	770	700	630	70		

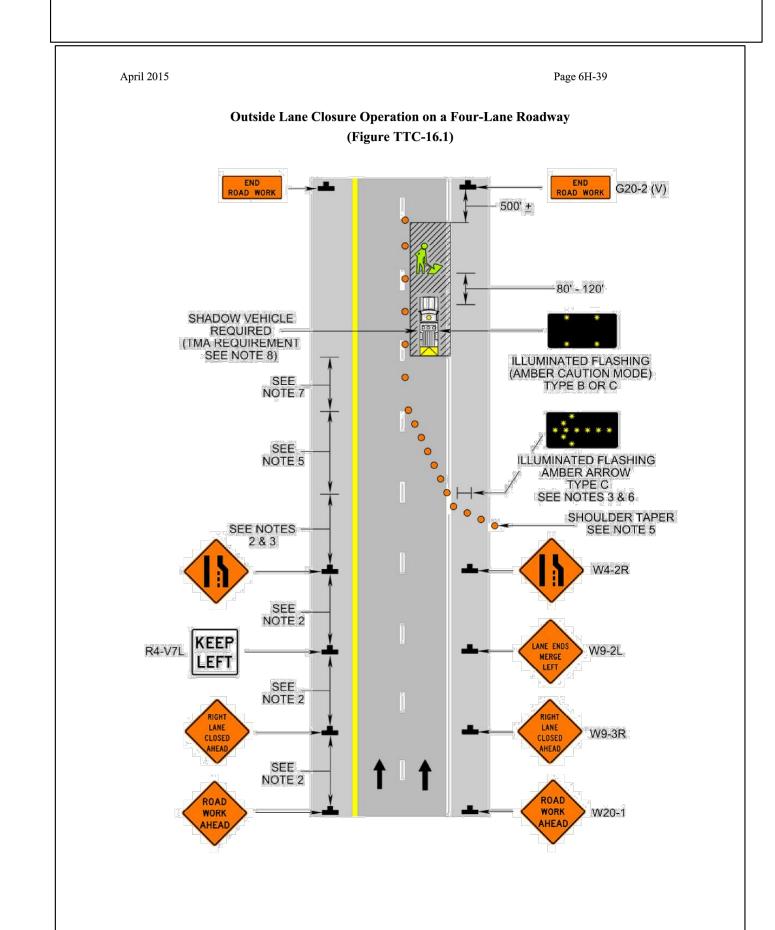
Channelizing Device Spacing					
Location	Speed Limit (mph				
Location	0 - 35	36 +			
Transition Spacing	20'	40'			
Travelway Spacing	40'	80'			
Construction Access* 80' 12					
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.					

April 2015

ed shoulders having a channelizing devices se the shoulder in ing taper to direct ain within the traveled

- 6. An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be used for each closed lane (see Figure TTC-18).
- 7. The buffer space length shall be shown in Table 6H-3 on Page 6H-5 for the posted speed limit.
- 8. A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truckmounted attenuator shall be used.
- 9. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights but can be used to supplement the amber rotating, flashing,
- 10. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed.

1: Revision 1 – 4/1/2015



TAX MAP 40-4

POLICE - FIRE - RESCUE 911 **EMERGENCY** FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052



DESCRIPTION

Great Falls Street Sidewalk Improvements TRANSPORTATION MANAGEMENT PLAN DETAILS

CAPITAL FACILITIES 703-324-5800

PROJECT NO. 5G25-060-042 FUND NO. 300-C30050 SHEET DESIGNED BY: DD BY APPROVED DATE SEE GRAPHIC DRAFTED BY: TC 1G(5) SCALE CHECKED BY: BB

April 2015 Page 6H-62

Typical Traffic Control Lane Closure Operation in an Intersection (Figure TTC-28.1)

NOTES

- 1. The control of traffic through the intersection in order of preference should be:
- a. Obtain the services of law enforcement personnel.
- b. Detour the effective routes to other roads and streets as approved and directed by the Regional Traffic Engineer.
- c. Place a state certified flagger on each leg of the intersection controlling a single lane of traffic. Appropriate signing as shown should be used for law enforcement and flagging operations. For detour signs see Figure TTC-34.
- 2. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph. Standard:

3. Channelizing device spacing shall be on 20' centers or less.

Guidance:

4. If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing or oscilllating light should be parked 80'-120' in advance of the first work crew.

Standard:

5. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.

6. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.

7. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

NOTES

Typical Traffic Control Street Closure Operation with Detour (Figure TTC-34.1)

1. This plan should be used for streets without posted route numbers.

- 2. On multi-lane streets, Detour signs with an Advance Turn Arrow should be used in advance of a turn.
- 3. Sign spacing distance should be 225'-275' where the posted speed limit is 30 to 35 mph, and 100'-200' where the posted speed is 25 mph or less.
- 4. If the road is opened for a significant distance beyond the intersection and/or there are significant origin/destination points beyond the intersection, the ROAD CLOSED (R11-2) and Detour Arrow (M4-10) signs on Type 3 Barricades should be located at the corners of intersecting closed roadway or the traveled way.

Option:

Page 6H-74

Guidance:

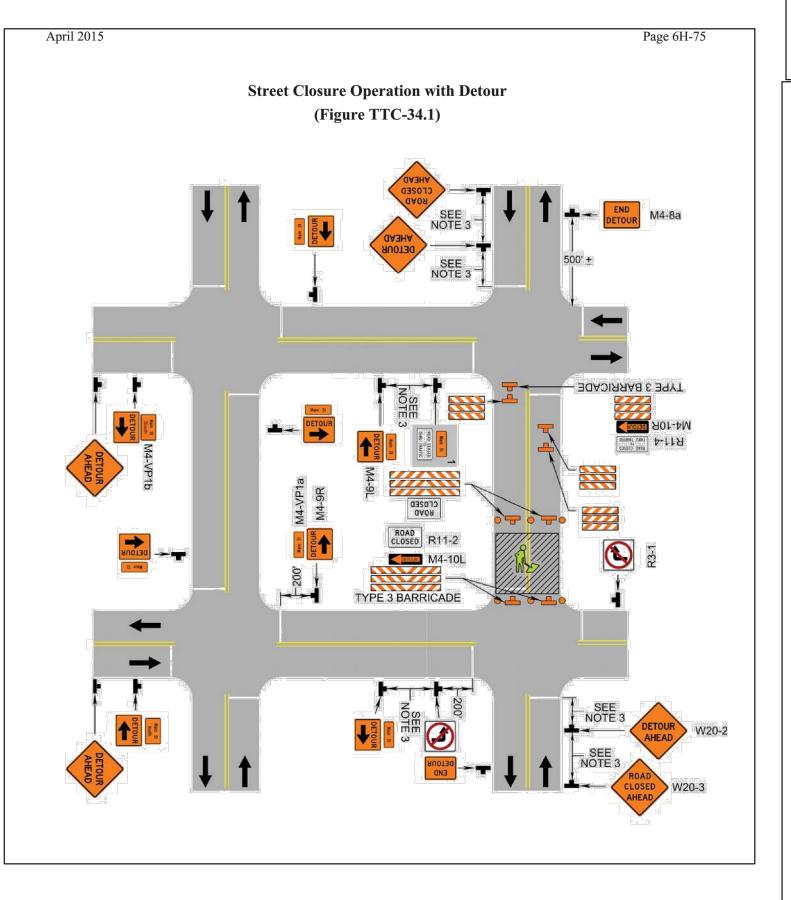
- 5. Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
- 6. Flashing warning lights may be used on Type 3 Barricades.
- 7. Detour signs may be located on the far side of intersections. A Detour sign with an advance arrow may be used in advance of a turn.
- 8. A Street Name (M4-VP1a) plaque may be mounted with the Detour sign. The Street Name plaque may be either white on green or black on orange.

Standard:

9. When used, the Street Name plaque shall be placed above the Detour sign. Support:

10. See Chapter 6I for additional information on incident management traffic control.

April 2015 Page 6H-63 **Lane Closure Operation in an Intersection** (Figure TTC-28.1) S **3TON QNA** SEE BOTTOM RIGHT **TUOYAJ NƏIS RO**Ŧ 1001 - 100 - 200, +



Page 6H-124

End of Day Signing for Paving Operations on a Two-Lane Roadway

(Figure TTC-59.1) **NOTES**

Typical Traffic Control

Standard:

April 2015

- 1. Open travel lane(s) shall not be exposed to more than 2 to 3 mile sections of milled or uneven
- 2. The maximum pavement edge drop-off shall be 2 inches or less.
- 3. NO CENTER LINE (W8-12) sign shall be installed whenever the centerline has been obliterated or until permanent pavement markings have been installed. The sign shall be installed in both directions when the centerline is not present. In addition, NO CENTER LINE signs shall be installed every mile if the unmarked area is less than 3 miles, or every 2 miles if the unmarked area is longer than 4 miles.
- 4. A DO NOT PASS (R4-1) sign shall be used when the centerline has been obliterated or until pavement markings have been installed. The DO NOT PASS sign shall be installed after the NO CENTER LINE sign and their sign stand shall be supported with a sand bag weighing approximately 25-pounds on each leg or two (2) drum collar weights positioned on the center of the sign stand. Thereafter the DO NOT PASS sign shall be installed every mile if the unmarked area is less than 3 miles or every 2 miles if the unmarked area is longer than 4 miles.
- 5. In the vicinity of a turning lane a BUMP (W8-1) sign shall be installed.

where the posted speed limit is greater than 45 mph.

- 6. The UNEVEN LANES (W8-11) sign and BUMP sign shall be adjusted daily with the work operation and their sign stand shall be supported with a sand bag weighing approximately 25pounds on each leg or two (2) drum collar weights positioned on the center of the sign stand¹. Additional UNEVEN LANES signs shall be installed every mile.
- 7. Signs shall be post-mounted at locations after 72 consecutive hours of non-work activities.

8. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800'

9 Only traffic control signing for pavement resurfacing is shown. Other devices may be used for the control of traffic through the work area.

10 The LOW SHOULDER (W8-9) sign may be used to warn of a shoulder condition where there is an elevation difference of less than 2 inches between the shoulder and the travel lane.

April 2015

- 11. The LOW SHOULDER sign shall be repeated at 1 mile intervals where there is an elevation difference of less than 2 inches between the shoulder and the travel lane extends over a distance in excess of 1 mile.
- 12. If pavement marking cannot be installed in accordance with Section 704.03 of the Road and Bridge Specifications, then yellow temporary pavement markers spaced at 10 foot centers for twoway traffic shall be placed along the centerline for lane division. No edge markers will be
- 13. A temporary pavement wedge shall be constructed of surface mix asphalt a minimum of three (3) feet in length for every inch of depth of pavement milling on the approach and departure end of the milled travel lane(s). Refer to Standard ACOT-1 of the Road and Bridge Standards for

End of Day Signing for Paving Operations on a Two-Lane Roadway (Figure TTC-59.1)

END PAVEMENT DROP-OFF — SEE NOTE 13 SEE NOTES - SEE NOTE BEGIN PAVEMENT DROP-OFF ∓ ,009 --- SEE NOTES DO R4-1 NOT SEE NOTE 4 SEE NOTE 3

Page 6H-112 **Typical Traffic Control**

Signing for Project Limits (Figure TTC-53.0) **NOTES**

August 2011

April 2015

Page 6H-125

SEE NOTE 6

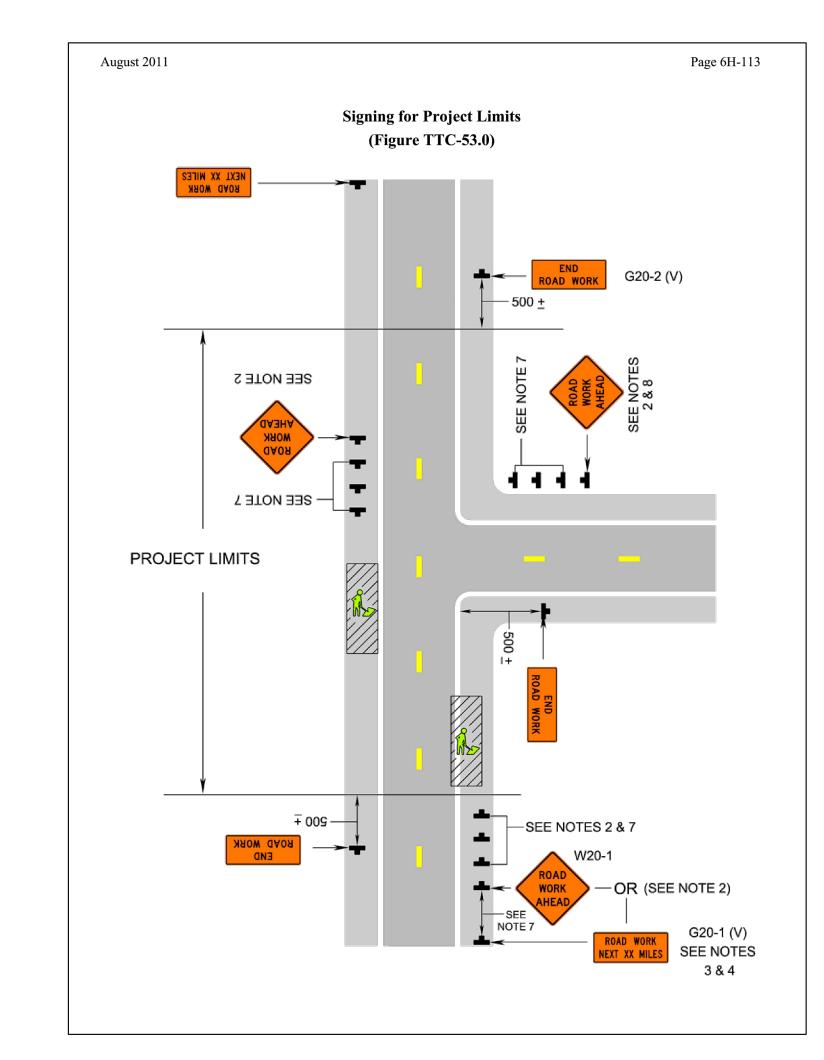
DESCRIPTION

1. This layout depicts signing requirements for notifying motorist when they are entering and exiting a potential construction/maintenance area with a duration equal to or greater than 60 days.

- 2. The ROAD WORK AHEAD (W20-1) sign or the ROAD WORK NEXT XX MILES (G20-1 (V)) sign shall be placed far enough in advance of the project limits so that other warning signs in a series may be adequately placed prior to the condition they are warning about.
- 3. The ROAD WORK NEXT XX MILES sign shall be used for projects with activity areas greater than 2 miles in length, or when multiple work activities (such as pavement patching, guardrail installations, shoulder restoration, etc.) occur along a highway.
- 4. The distance displayed on the ROAD WORK NEXT XX MILES sign shall be stated to the nearest whole mile from the point of installation to the END ROAD WORK (G20-2 (V)) sign.
- 5. On divided highways having a median wider than 8', right and left sign assemblies shall be required.

Guidance:

- 6. For projects with activity areas 2 miles or less in length, the ROAD WORK AHEAD sign should be the first sign motorist encounter.
- 7. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
- 8. All connections within the project limits should be identified with signs indicating to motorist they are entering or exiting a potential construction/maintenance area.



TAX MAP 40-4

Kimley » Horn

FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052 CAPITAL FACILITIES 703-324-5800

Great Falls Street Sidewalk Improvements TRANSPORTATION MANAGEMENT PLAN DETAILS

POLICE - FIRE - RESCUE 911

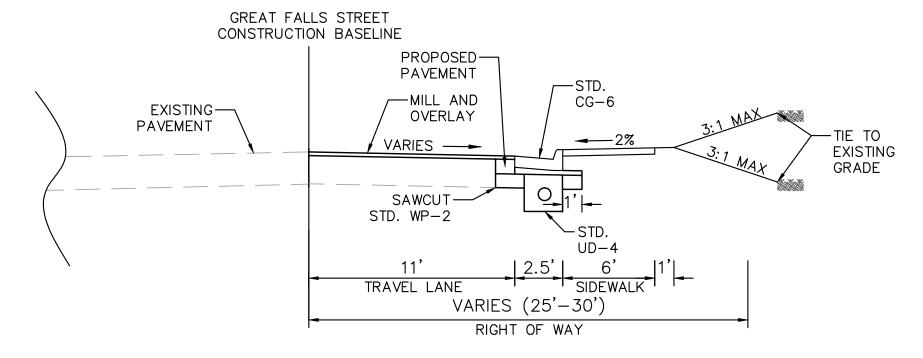
FUND NO. 300-C30050 ROJECT NO. 5G25-060-042 SHEET DESIGNED BY: DD BY APPROVED DATE SEE GRAPHIC DRAFTED BY: TC 1G(6) SCALE CHECKED BY: BB

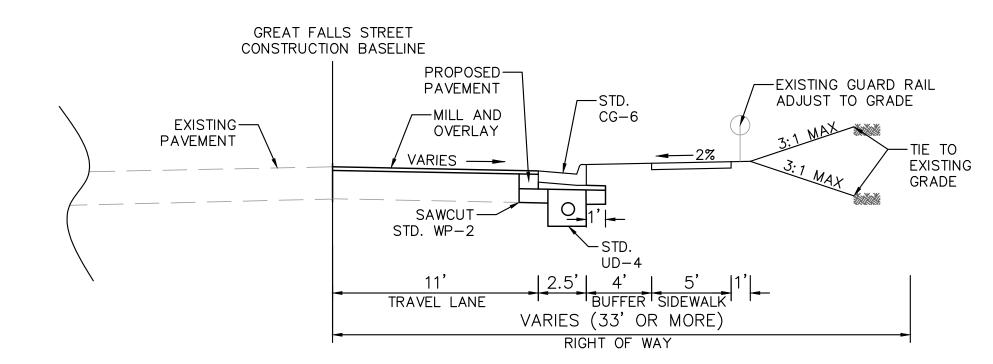
TYPICAL SECTIONS

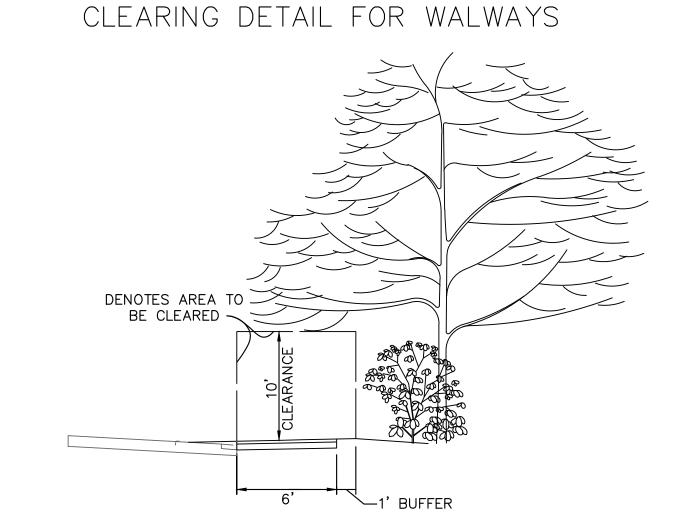
GREAT FALLS STREET

STA. 100+48 TO STA. 103+75

STA. 114+25 TO STA. 115+25







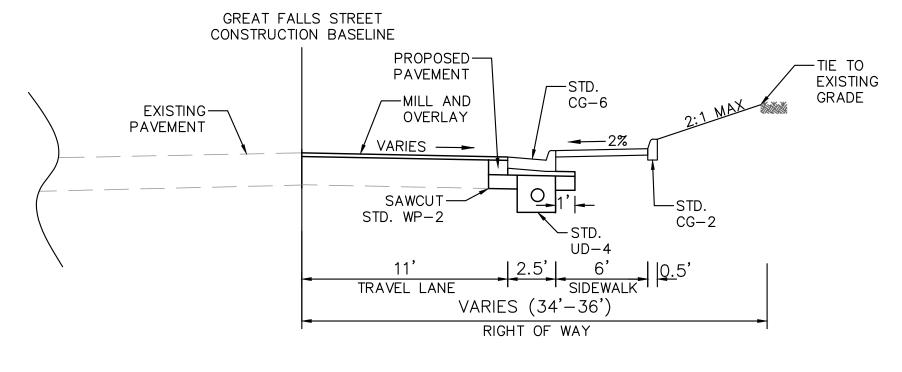
GREAT FALLS STREET
STA. 103+75 TO STA. 104+75

GREAT FALLS STREET

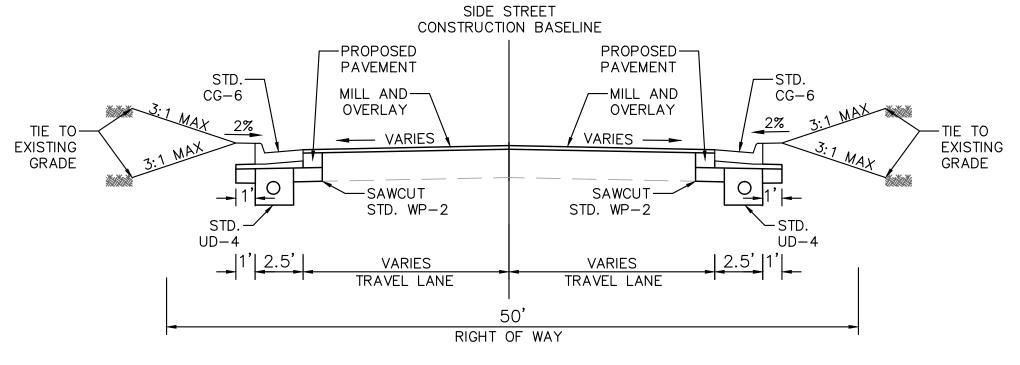
STA. 104+75 TO STA. 108+25

GREAT FALLS STREET

CONSTRUCTION BASELINE







HIGH STREET

PROPOSED—PAVEMENT

STD.—

CG-6

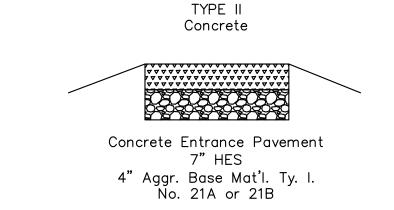
SIDE STREET CONSTRUCTION BASELINE

RIGHT OF WAY

PAVEMENT

VARIES ---

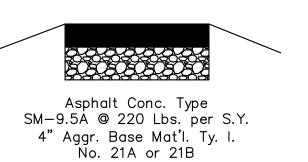
DRIVEWAY PAVEMENT DETAIL



DESCRIPTION

EXISTING

GRADE



DESIGNED BY: DD

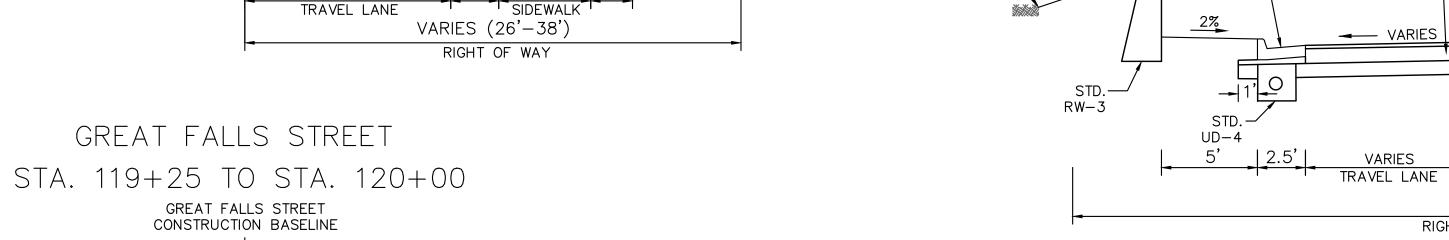
DRAFTED BY: TC CHECKED BY: BB

SHEET

TYPE III

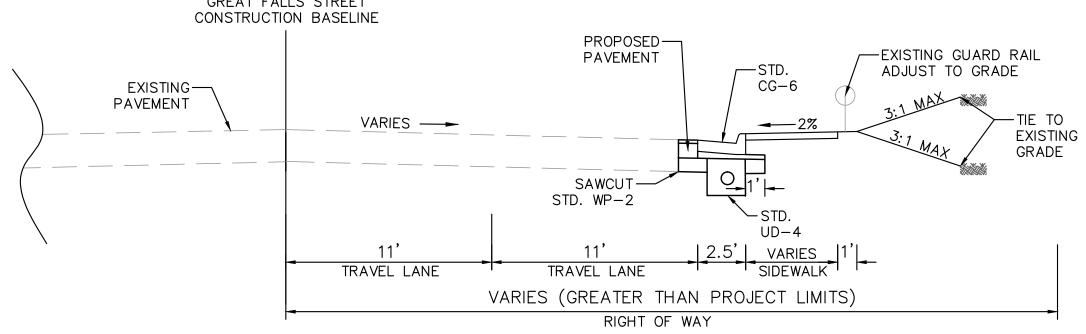
Asphalt

STD.-HR-1



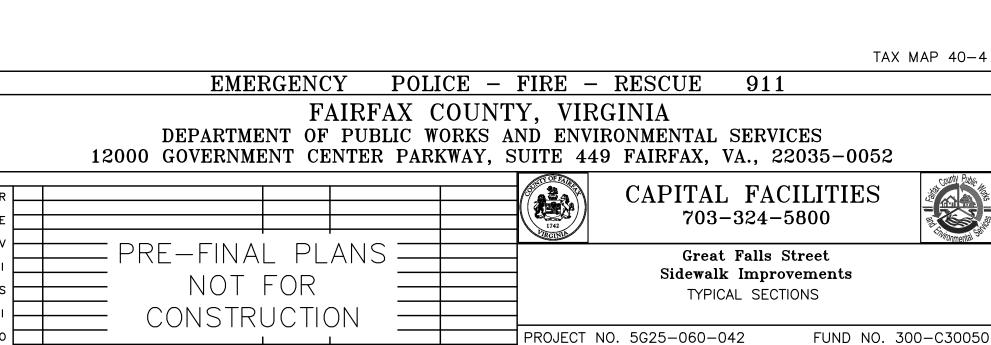
EXISTING

GRADE



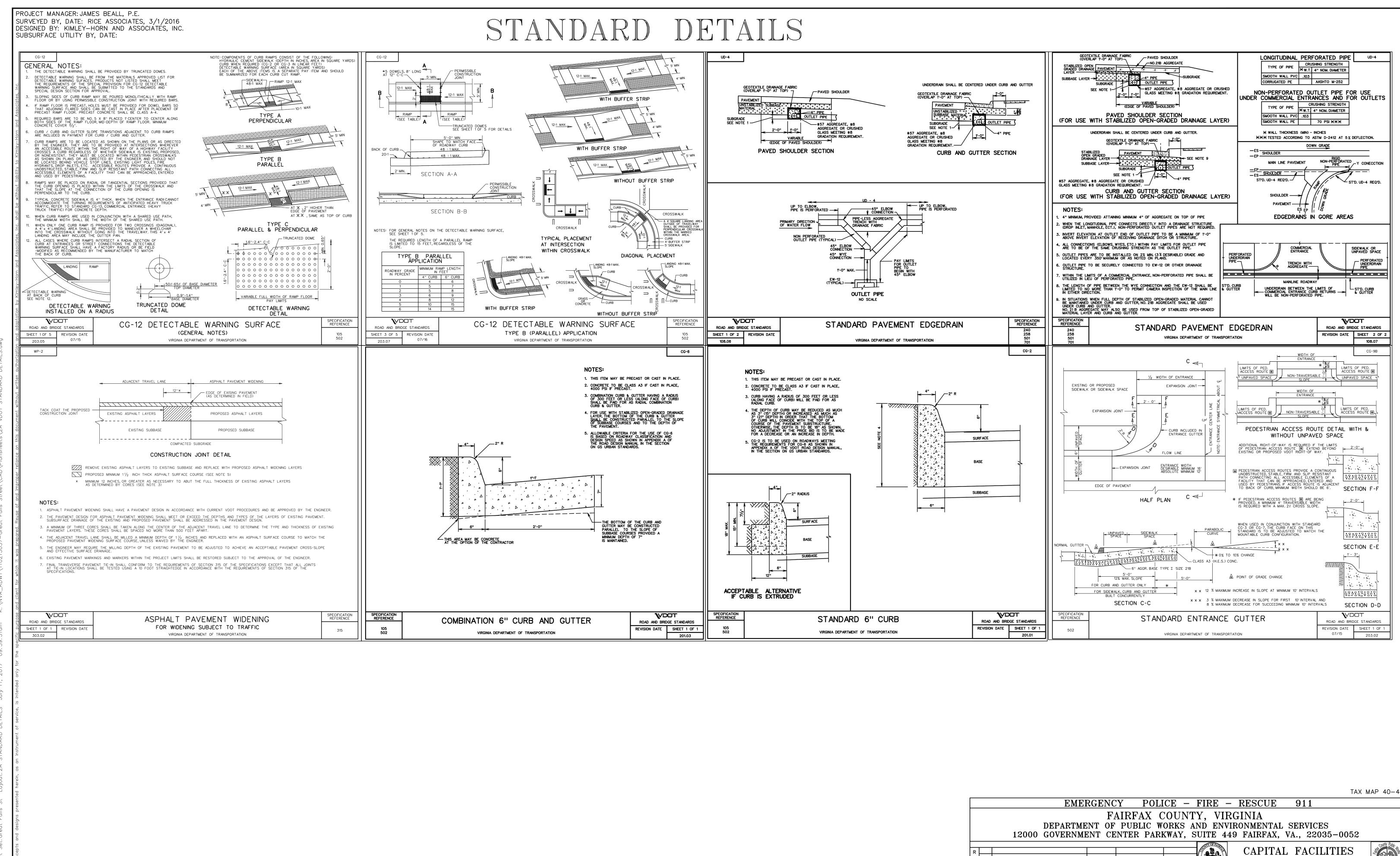


CG-6



BY APPROVED DATE

NOT TO SCALE



Kimley»Horn

2017 KIMLEY-HORN AND ASSOCIATES, INC.
11400 Commerce Park Drive, Suite 400, Reston, VA 20191
Phone: 703-674-1300

DEPARTMENT OF PUBLIC WORKS AND ENVIRONGE 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 IN THE PRE-FINAL PLANS

PRE-FINAL PLANS

NOT FOR

CONSTRUCTION

PROJECT NO.

SCALE
NOT TO

Great Falls Street
Sidewalk Improvements
STANDARD DETAILS

5. 5G25-060-042 FUND NO. 300
DESIGNED BY: DD SH

703-324-5800

PROJECT NO. 5G25-060-042 FUND NO. 300-C30050

SCALE DESIGNED BY: DD SHEET
NOT TO DRAFTED BY: TC 2A

SCALE CHECKED BY: BB

Erosion and Sediment Control Narrative

<u>Project Description:</u> This project is a pedestrian facility improvement project in Fairfax County. The project proposes the construction of approximately 1,525 LF of 5'-6' concrete sidewalk on Northbound Great Falls Street (Route 694), except at bridge approaches that will require a reduced width of 4.5'-5.5', that will tie into the proposed sidewalk improvements at North West Street.

Existing Site Conditions: The existing vegetation along the proposed sidewalk consists of lawn grasses and trees. These provide a buffer between the road and houses along Great Falls Street. Some of these trees are located in areas where sidewalk is proposed. The existing longitudinal slope of Great Falls Street varies from relatively flat to approximately 6% in some areas along the project site. There is a high point at approximate Station 119+50 near the mid point of the bridge over I—66. There is an existing asphalt shoulder along Great Falls Street along the project limits.

There are four outfall location in this project. Three of the outfalls are the existing storm drain systems and one sheet flows to an existing concrete ditch. See Outfall Analysis Map on Sheets 2G for the outfall locations. Runoff from the project site reaches the outfalls via proposed storm sewer, curb and gutter, an existing ditch and existing overland flow.

Adjacent Areas: The site is bound by Osborn Street to the north, residential development to the east and west, and North West Street to the south. A portion of the road includes a bridge passing over I—66 to the north.

Offsite Areas: This project proposes offsite work. All necessary easements will be acquired prior to land disturbance.

<u>Critical Areas:</u> The critical area for this project is the existing trees along the project corridor. Extreme care shall be taken to ensure all trees that can be saved in this project, will be protected.

Erosion and Sediment Control Measures: Unless otherwise directed, all vegetative and structural Erosion and Sediment Control practices shall be constructed and maintained in accordance with the most current minimum standards and specifications of the Virginia Sediment and Erosion Control Handbook. All necessary E&S measures shall be in place prior to beginning construction.

Structural Practices:

1. Silt Fence Barrier (3.05) — Silt Fence sediment barriers will be installed down slope of areas with minimal grades to filter sediment—laden runoff from

sheet flow as indicated on E&S Plan.

2. Storm Drain Inlet Protection (3.07) — All storm sewer inlets shall be protected during construction. Sediment—laden water shall be filtered before entering

3. Tree Protection (3.38) — A fence barrier is to be placed around the trees and vegetated areas which will not be disturbed as shown on the E&S plan.

Permanent Stabilization:

the storm sewer inlets.

Permanent stabilization shall be done in accordance with the Virginia Erosion and Sediment Control Handbook (See Sheet 2B(1) for seed mixtures). In all seeding operations, seed, fertilizer and lime will be applied prior to mulching. All areas disturbed by construction shall be stabilized with permanent seeding immediately following finish grading. Erosion and Sediment Control measures shall remain in place until the grass is established.

Stormwater Management: The project proposes an addition of 0.13 acres of impervious area total and a total of 0.67 acres of land disturbance. Details on the Stormwater Management Plan can be found on Sheet 2F.

Maintenance: In General, all Erosion and Sediment Control measures shall be checked daily and after each significant rainfall.

1. Sediment trapping measures will be installed as a first step in grading and will be seeded and mulched immediately following installation.

- 2. Temporary seeding or other stabilization will follow immediately after grading.
- 3. The job superintendent shall be responsible for the installation, daily inspection, and maintenance of all erosion and sediment control practices.

NOTES:

- 1. An Erosion & Sediment Control Contractor Certification (ESCCC) is required for all land disturbing activities occurring within the state's Right of Way.
- 2. The County is responsible for complying with applicable local, state and federal environmental laws and regulations, including acquiring clearances/authorizations from appropriate regulatory agencies.
- 3. All E&S controls shall be removed within 30 days after project is stabilized.

SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

<u>MINIMUM CARE LAWN</u> <u>TOTAL LBS PER ACRE</u>

COMMERCIAL OR RESIDENTIAL 175-200 LBS
-KENTUCKY 31 OR TURF-TYPE TALL FESCUE 95-100%
-IMPROVED PERENNIAL RYEGRASS 0-5%

-IMPROVED PERENNIAL RYEGRASS 0-5% -KENTUCKY BLUEGRASS 0-5%

<u>GENERAL SLOPE (3:1 OR LESS)</u>

-KENTUCKY 31 FESCUE128 LB-RED TOP GRASS2 LBS-SEASONAL NURSE CROP *20 LB150 LB

LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)

-KENTUCKY 31 FESCUE108 LBS-RED TOP GRASS2 LBS-SEASONAL NURSE CROP *20 LBS-CROWNVETCH **20 LBS

* USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED RELOW

FEBRUARY 16TH THROUGH APRIL

MAY 1ST THROUGH AUGUST 15TH

AUGUST 16TH THROUGH OCTOBER

NOVEMBER THROUGH FEBRUARY 15TH

ANNUAL RYE

WINTER RYE

** SUBSTITUTE SERICEA LESPEDEZA FOR CROWNVETCH EAST OF FARMVILLE, VA.

(MAY THROUGH SEPTEMBER USE HULLED SERICEA, ALL OTHER PERIODS, USE

UNHULLED SERICEA). IF FLATPEA IS USED IN LIEU OF CROWNVETCH, INCREASE RATE

TO 30LBS/ACRE. ALL LEGUME SEED MUST BE PROPERLY INOCULATED. WEEPING

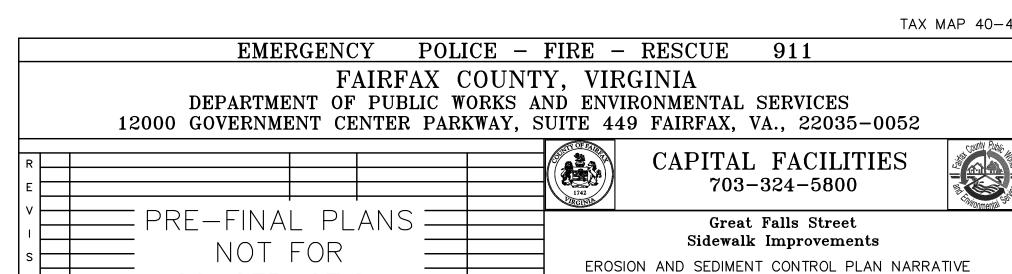
LOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW—MAINTENANCE MIX DURING

WARMER SEEDING PERIODS: ADD 10—20 LBS/ACRE IN MIXES

DESCRIPTION

MICHAEL R. ALBRIGHT DE Lic. No. 46643





BY APPROVED DATE

PROJECT NO. 5G25-060-042

NOT TO

SCALE

DESIGNED BY: DD

DRAFTED BY: TC

CHECKED BY: BB

FUND NO. 300-C30050

SHEET

2B(1)

4VAC50-30-40 MINIMUM STANDARDS. (MS-19)

AN EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOILS STOCKPILES ONSITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND

SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

- 5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- 6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
- a. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.

b. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A TWENTY—FIVE YEAR STORM OF 24—HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.

7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

- 8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- 9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT—LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NON—ERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NON—ERODIBLE COVER MATERIALS.

13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX—MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NON—ERODIBLE MATERIAL SHALL BE PROVIDED.

- 14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
- 15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

- a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- b. EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF TRENCHES.

C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF—SITE PROPERTY.

- d. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- e. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS
- f. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND—DISTURBING ACTIVITIES.

18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASE IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24—HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:

a. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN—MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.

- b. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:
- (1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR

(2) (a) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO—YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED AND BANKS; AND

(b) ALL PREVIOUSLY CONSTRUCTED MAN—MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN—YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP TS BANKS AND BY THE USE OF A TWO—YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND

- (c) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN—YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
- c. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
- (1) IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OR
- (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES; OR

(3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR

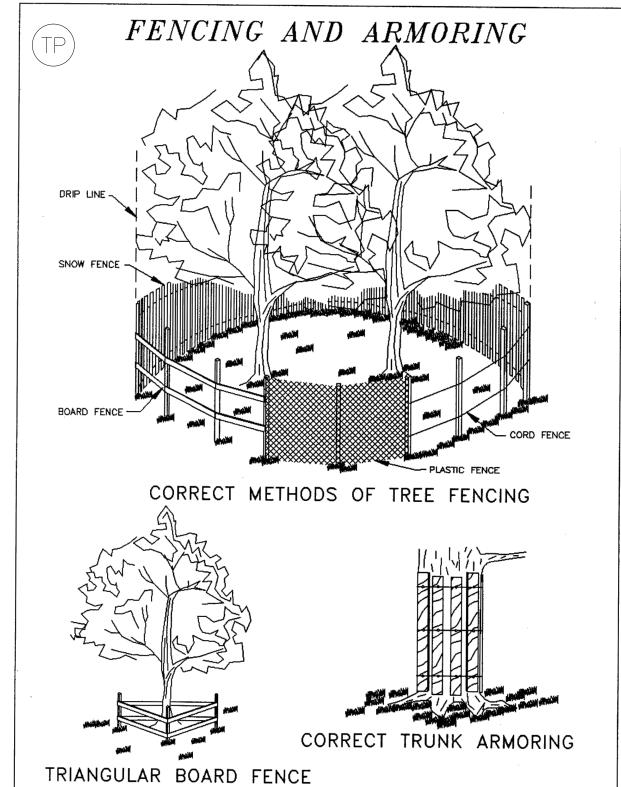
- (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN—APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.
 - d. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
 - e. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT.

f. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION HE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

- g. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
 - h. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
- I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.

j. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.

K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.



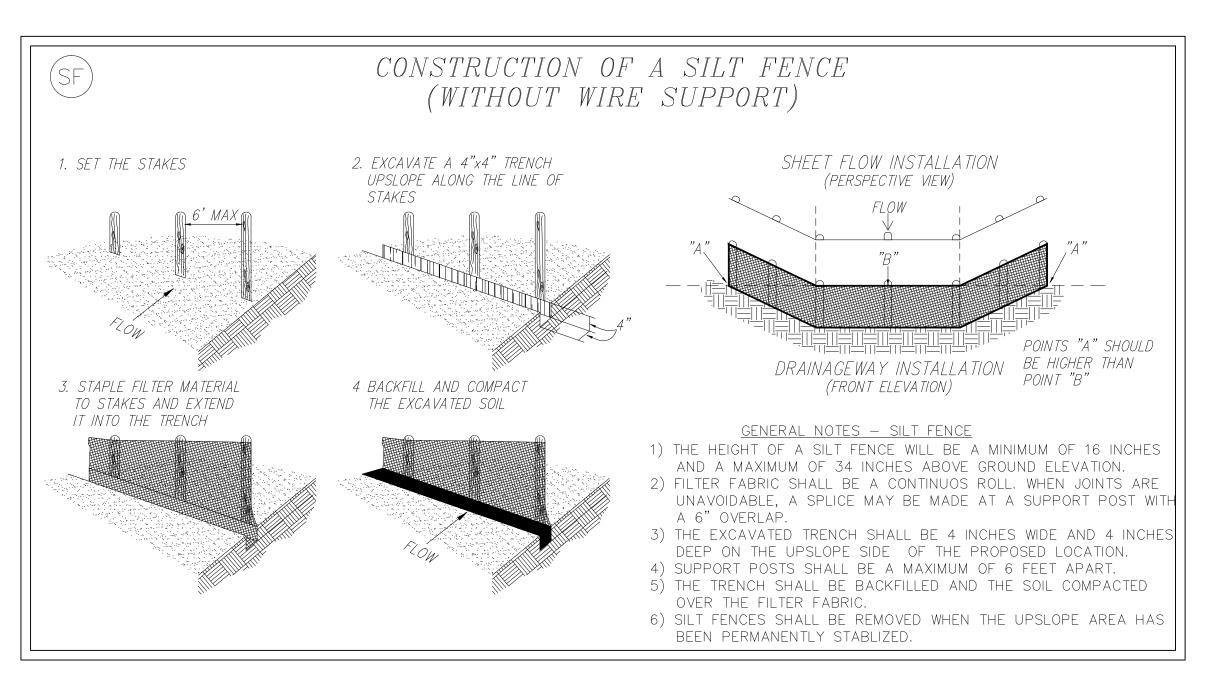
(TYPE A) %" X %" MESH GRAVEL FILTER CONCRETE BLOCK TYPICAL TREATMENT FOR DROP INLET WITH CONCRETE TYPICAL TREATMENT FOR DROP INLET WITHOUT CONCRETE GUTTER FILTERED WATER 2" X 4" WOOD STUD (TO KEEP FRONT BLOCKS IN PLACE) SECTION VIEW SPECIFIC APPLICATION THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB NLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE SECTION B-B GEOTEXTILE PRODUCTS DESIGNED TO BE INSERTED INTO GRATED DROP INLETS OR DESIGNED TO COVER THE SLOTS OF SLOT DROP INLETS, THAT HAVE BEEN APPROVED FOR USE ON VDOT PROJECTS AND ARE FOUND ON VDOT'S SPEL LIST, MAY BE SUBSTITUTED FOR THE DROP INLET PROTECTION DEVICES DETAILED HEREON. SPECIFICATION REFERENCE **V**DOT INLET PROTECTION ROAD AND BRIDGE STANDARDS (TYPE A AND B) REVISION DATE SHEET 1 OF 2 VIRGINIA DEPARTMENT OF TRANSPORTATION 113.09 Plate 3.38-2 2016 ROAD & BRIDGE STANDARDS

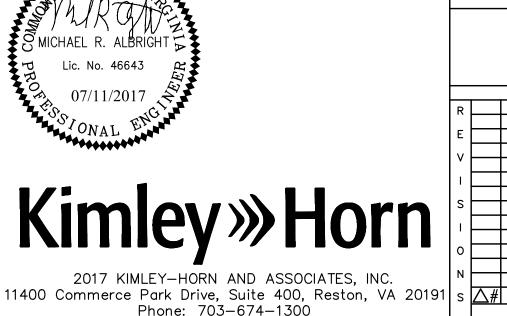
2016 ROAD & BRIDGE STANDARDS

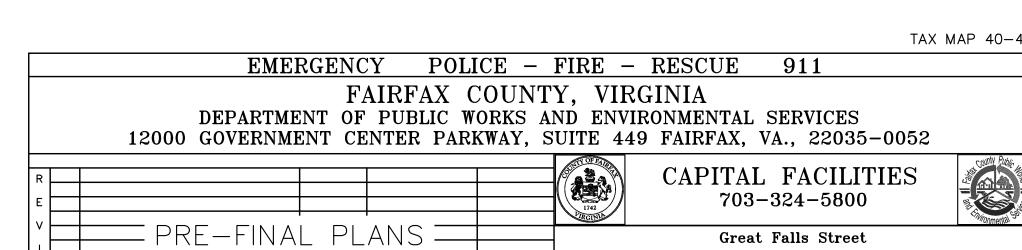
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Source: Va. DSWC







DESCRIPTION

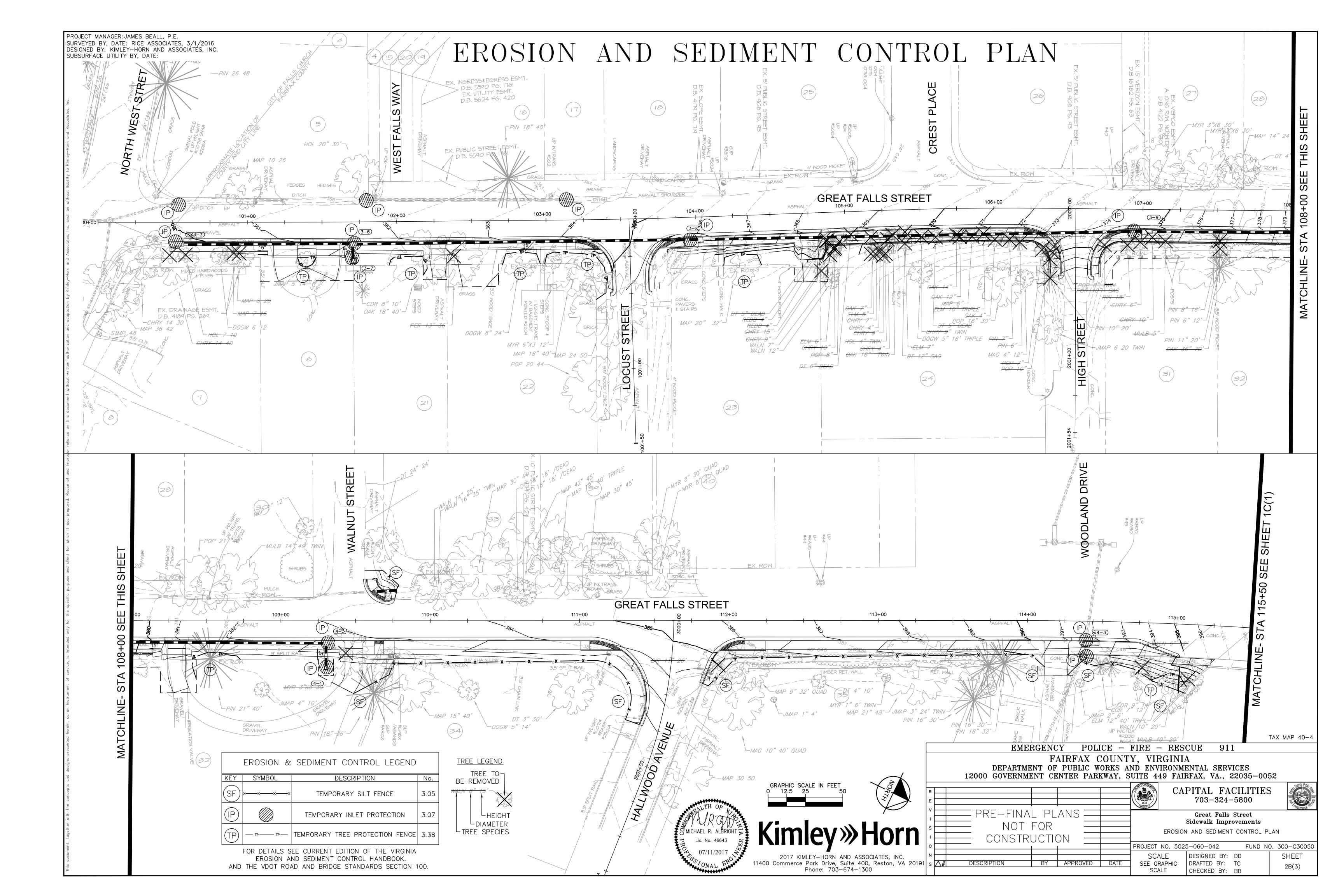
Great Falls Street
Sidewalk Improvements
EROSION AND SEDIMENT CONTROL PLAN
NOTES AND DETAILS

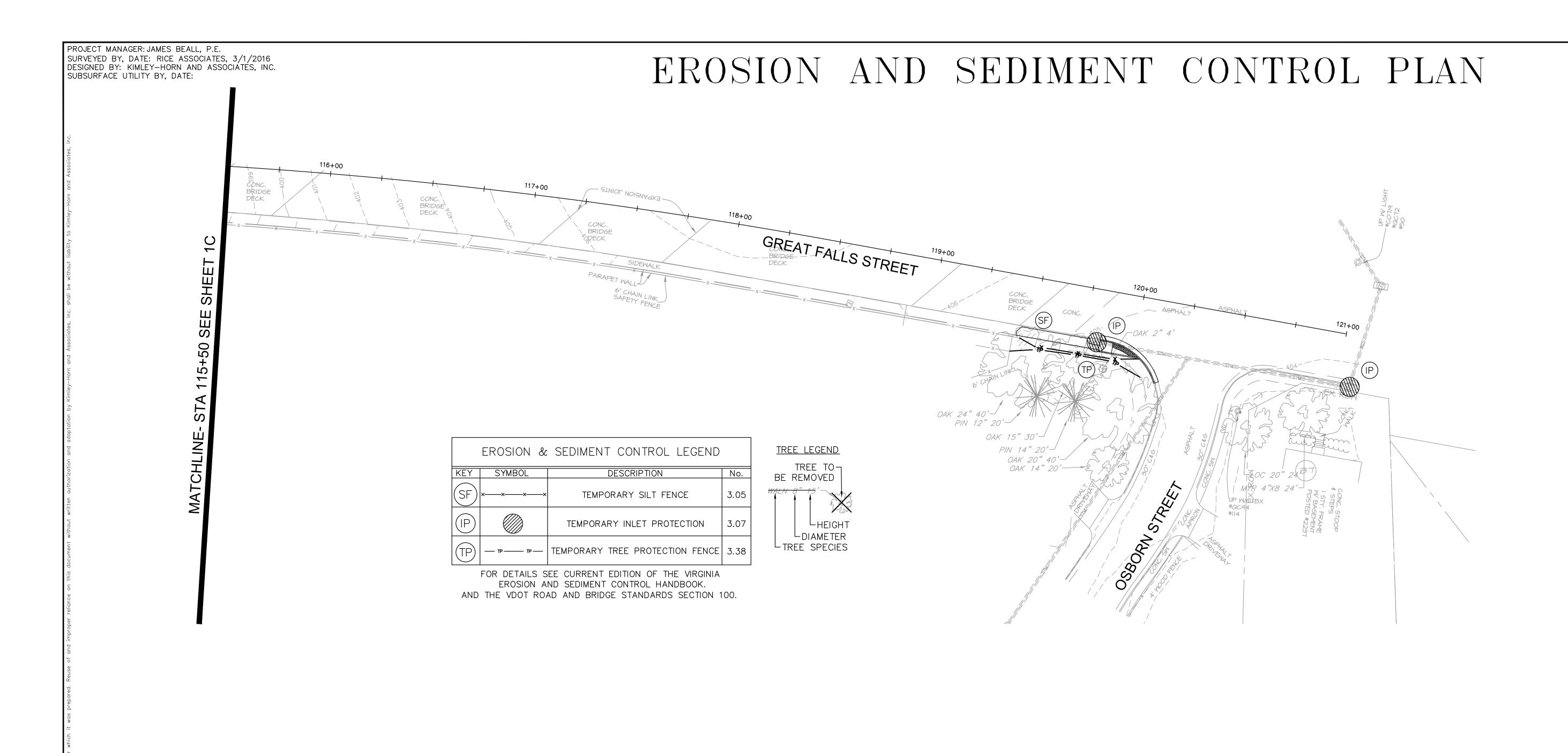
PROJECT NO. 5G25-060-042 FUND NO. 300-C30050

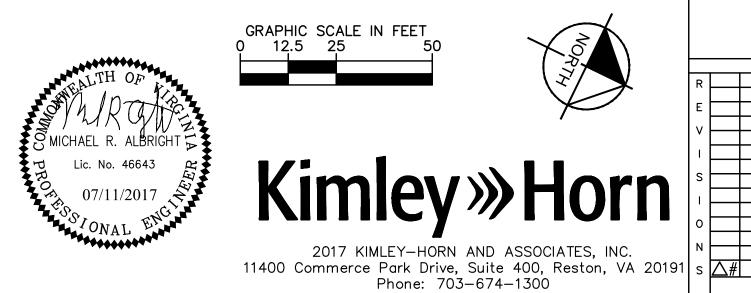
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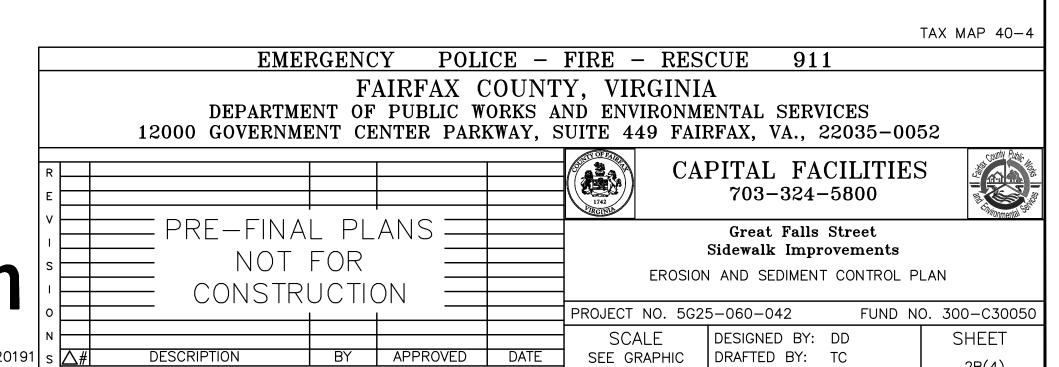
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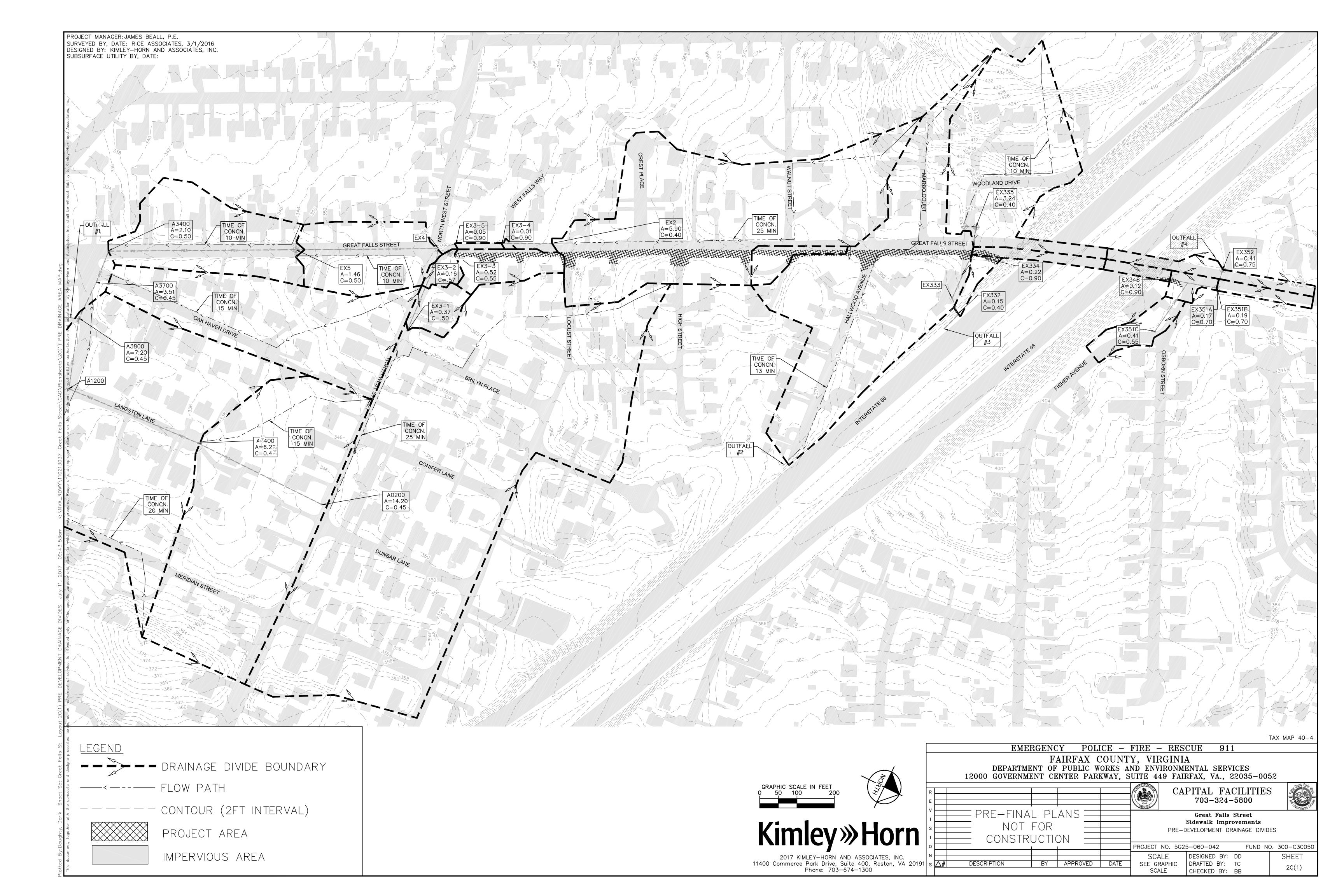


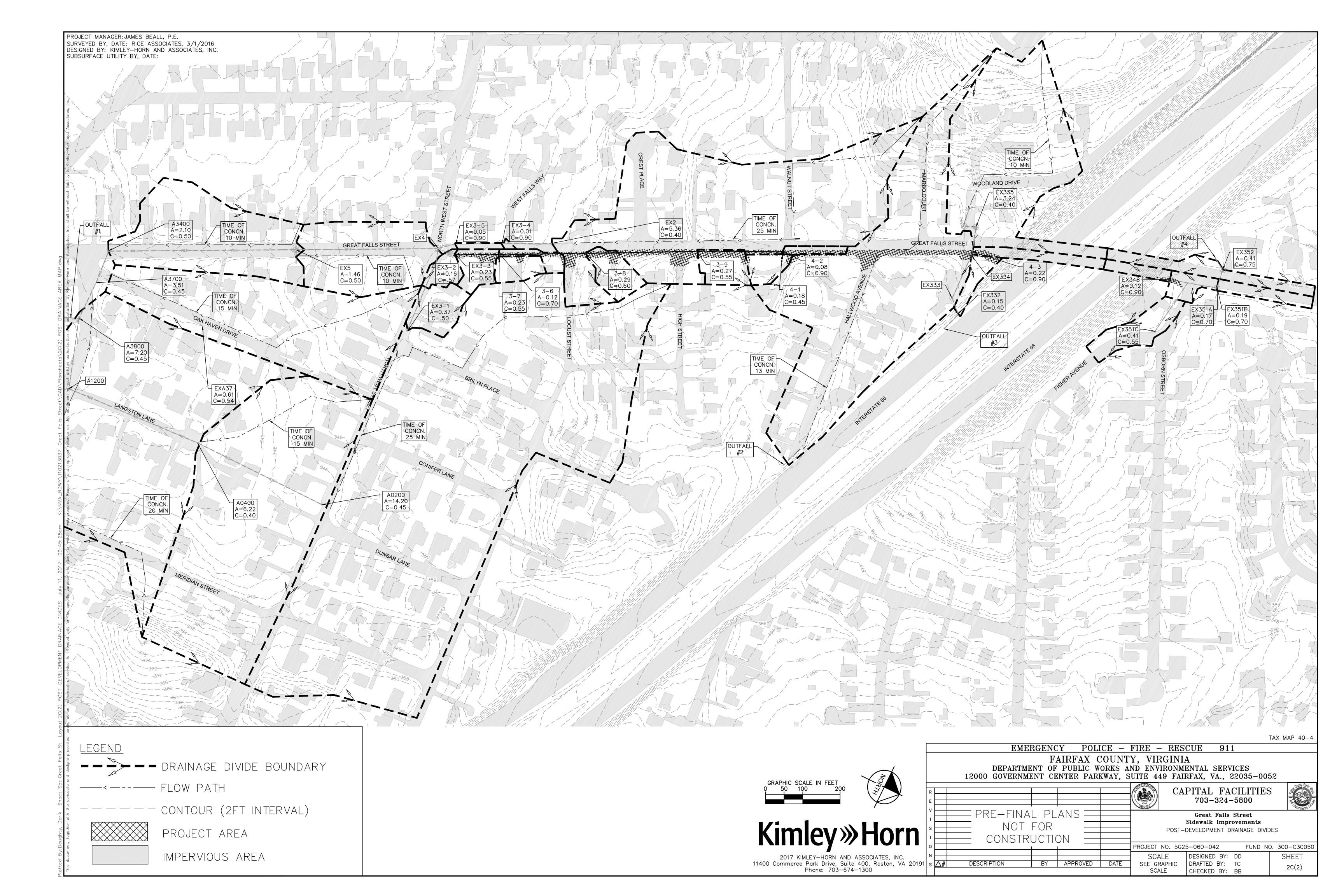
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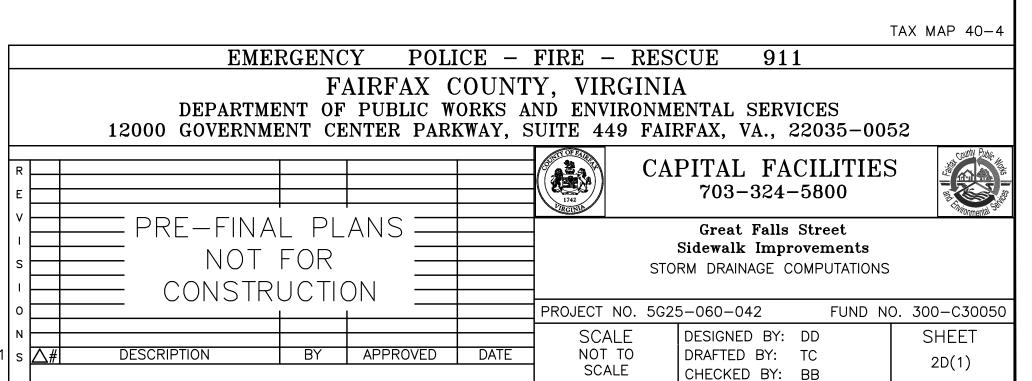




STORMWATER INLET CALCULATIONS

													LD-	204 Sto	ormwa	ter Inle	t Comp	utation	ns									_				
LD-204 Rev. 6-85					ſ	PPMS#					PROJ		Great Fal	ls Street	Sidewa	k Improv	ements					DATE		June 2	1, 2017				SHEET_	OF_	1 1	
							_																							Sag Inle	ts Only	
NUMBER	TYPE	LENGTH (FT)	STATION	DRAINAGE AREA (AC)	S	CA	sum CA	I (IN/HR)	Q INCR (CFS)	Q _b , CARRYOVER (CFS)	Q _T , GUTTER FLOW (CFS)	S, GUTTER SLOPE (FT/FT)	S _x , CROSS SLOPE (FT/FT)	T, SPREAD (FT)	W (FT)	W/T	S _W , (FT/FT)	S_W/S_X	E ₀	$a = 12W(S_W - S_X) + Local$ Depression	S' _W = a/(12w)	$S_e = S_X + S'_W(E_0), (FT/FT)$	COMPUTED LENGTH, L _T , (FT)	L, SPECIFIED LENGTH (FT)	L/L _T	E	Q _i , INTERCEPTED (CFS)	Qb, CARRYOVER (CFS)	d (FT)	h (FT)	d/h	T, SPREAD @ SAG (FT)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
PRE-DEVE	ELOPMEN	IT INLE	ETS - ON	GRADE			r																1	_		ı		г				
EX334	EXIST	10	114+37	0.22	0.90	0.198	0.198	4.0	0.792	0.000	0.792	0.0472	0.0475	1.98	2	1 .01	0.0833	1.75	1.00	2.86	0.119	0.167	8	10	1.25	1.00	0.79	0.000				
EX348	EXIST	4	119+81	0.12	0.90	0.108	0.108	4.0	0.432	0.000	0.432	0.0112	0.0235	2.20	2	0.91	0.0833	3.55	1.00	3.44	0.143	0.167	4	4	1.00	1.00	0.43	0.000				
EX3-3	DI-3B	8	100+50	0.52	0.55	0.286	0.286	4.0	1.144	0.000	1.144	0.0272	0.0326	3.25	2	0.62	0.0833	2.56	0.97	3.22	0.134	0.162	8	8	1.00	1.00	1.14	0.000				
POST-DE\	VELOPME	ENT INL	LETS - OI	N GRAD	E																	•						г				
EX3-3	DI-3B	8	100+50	0.23	0.55	0.127	0.127	4.0	0.506	0.000	0.506	0.0272	0.0326	1.85	2	1.08	0.0833	2.56	1.00	3.22	0.134	0.167	6	8	1.33	1.00	0.51	0.000				
3-6	DI-3B	4	101+70	0.12	0.70	0.084	0.084	4.0	0.336	0.000	0.336	0.0081	0.0108	1.99	2	1.00	0.0833	7.72	1.00	3.74	0.156	0.167	4	4	1.00	1.00	0.34	0.000				
3-8	DI-3B	8	104+03	0.29	0.60	0.174	0.174	4.0	0.696	0.000	0.696	0.0252	0.0026	5.32	2	0.38	0.0833	32.05	0.99	3.94	0.164	0.165	7	8	1.14	1.00	0.70	0.000				
3-9	DI-3B	6	107+01	0.27	0.55	0.149	0.149	4.0	0.594	0.000	0.594	0.0257	0.0001	1.99	2	1.01	0.0833	833.33	1.00	4.00	0.167	0.167	6	6	1.00	1.00	0.59	0.000				
4-2	DI-3B	4	109+30	0.08	0.90	0.072	0.072	4.0	0.288	0.000	0.288	0.0115	0.0304	1.76	2	1.13	0.0833	2.74	1.00	3.27	0.136	0.167	4	4	1.00	1.00	0.29	0.000				
4-3	DI-3B	10	114+39	0.22	0.90	0.198	0.198	4.0	0.792	0.000	0.792	0.0472	0.0475	1.98	2	1.01	0.0833	1.75	1.00	2.86	0.119	0.167	8	10	1.25	1.00	0.79	0.000				
EX348	EXIST	4	119+81	0.12	0.90	0.108	0.108	4.0	0.432	0.000	0.432	0.0112	0.0235	2.20	2	0.91	0.0833	3.55	1.00	3.44	0.143	0.167	4	4	1.00	1.00	0.43	0.000				
PRE-DEVI	LOPMENT	r inle	TS - IN SA	\G																						,		_				•
EX351	EXIST	6	121+00	0.17	0.72	0.122	0.122	4.0	0.490	0.000	0.490	0.0010	0.0540	4.34	2	0.46	0.0833	1.54	0.87	2.70	0.113	0.152	2.80	6	2.14	1.00	0.49	0.000	0.132	0.420	0.314	2.446
EX351	EXIST	6	121+00	0.19	0.75	0.143	0.143	4.0	0.570	0.000	0.570	0.0010	0.0540	4.34	2	0.46	0.0833	1.54	0.85	2.70	0.113	0.149	2.97	6	2.02	1.00	0.57	0.000				
POST-DE	VLOPMEN	NT INLE	ETS - IN S	SAG																						,		<u>.</u>	•			•
EX351	EXIST	6	121+00	0.17	0.73	0.124	0.124	4.0	0.496	0.000	0.496	0.0010	0.0540	4.34	2	0.46	0.0833	1.54	0.87	2.70	0.113	0.152	2.82	6	2.13	1.00	0.50	0.000	0.133	0 420	0.316	2 456
EX351	EXIST	6	121+00	0.19	0.75	0.143	0.143	4.0	0.570	0.000	0.570	0.0010	0.0540	4.34	2	0.46	0.0833	1.54	0.85	2.70	0.113	0.149	2.97	6	2.02	1.00	0.57	0.000	0.100	0. 120	5.515	

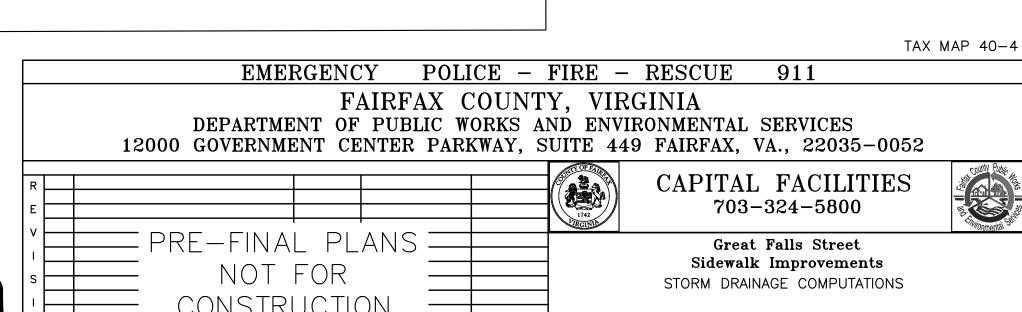




STORMWATER PIPE CALCULATIONS

LD-229								ROUTE:		694		PROJ:	Great Falls S	Street Side	walk Impro	/ements		
			ST	ORM SE	EWER DES	SICN		COUNTY:			Fairfax County	-	DISTRICT:		orthern Virg		•	
40330			510						IDTION.		r amax coanty	-	•		011110111 4112	11 1100	•	
				COMP	UTATION	>		DESCR	IPTION:			Storriwate	r Calculations	OT TO TO		OF		
														_ SHEET	1	- OF		
								_	•						T	<u> </u>		
						CA_					Invert E	levations						l
			Inlet					Inlet	System	System	l lisates sus	Daywaatraara				<u> </u>		Flow
	From	To	Area	Run-off		F (-1	0	Time	Intensity	Flow	Upstream	Downstream	Length	Slope	D. G.	Capacity	· ·	Time
Inlet	Point		(acres)	Coeff.	Increment	External	System	(min)	(in/hr)	(cfs)	End	End	(ft)	(ft/ft)	Pipe Size	(cfs)	(ft/s)	(min)
System #1	1 - PRE-I														1	1		
EX3-3	EX3-3	+	0.52	0.55	0.29	0.00	0.29	5.00	6.77	1.95	354.33	354.06	27.10	0.01	18	10.49	4.54	0.10
EX3-4	EX3-4		5.91	0.00	0.00	2.37	2.37	25.00	3.60	8.59	355.33	354.06	127.10	0.01	15	6.46	7.00	0.30
EX3-5	EX3-5		0.05	0.90	0.05	2.66	2.70	25.30	3.57	9.73	353.96	353.50	46.10 380.10	0.01	18 18	10.49 18.42	6.74 10.81	0.11
EX4	EX4	EX5	0.00	0.00	0.00 0.73	2.98	2.98 3.71	25.42 26.00	3.57 3.52	10.70 13.16	353.50 341.76	341.81 328.20	502.00	0.03	18	17.26	10.81	0.78
EX5	EX5 A3400	A3400 A3700	<u>1.46</u> 2.10	0.50 0.50	1.05	2.98 3.71	4.76	26.78	3.47	16.62	328.20	325.50	91.20	0.03	24	38.93	11.90	0.73
A3400	A3700	+	3.51	0.30	1.58	4.76	6.34	26.91	3.46	22.08	325.50	325.20	106.60	0.00	24	12.00	7.03	0.25
A3700 A3800		Outfall 1	7.20	0.45	3.24	15.21	18.45	27.16	3.44	64.00	325.20	324.20	230.70	0.00	38"x60"	91.15	8.08	0.48
/\UUUU	7,0000		1.20	 	†	10.21	10.10		<u> </u>		1						<u> </u>	
System #2		DEVELOP	MENT	<u> </u>	<u> </u>				•	<u>. </u>	•							
No Storm										_								
., 2.01111	<u> </u>			Τ														
System #3	- PRE-I	DEVELOP	MENT		•					-	·							
EX335	EX335		3.24	0.40	1.30	0.00	1.30	10.00	5.46	7.13	386.62	385.51	76.80	0.01	15	7.77	7.18	0.18
EX334	EX334	+	0.22	0.90	0.20	1.30	1.49	10.18	5.42	8.16	385.51	375.68	126.00	0.08	18	29.34	14.21	0.15
EX333	EX333	Outfall 3	0.15	0.40	0.06	1.49	1.55	10.33	5.39	8.44	375.68	372.04	46.70	0.08	18	29.33	14.3 <u>4</u>	0.05
								_										
System #4	4 - PRE-I	DEVELOP	MENT								_							
EX348	EX348	+	0.12	0.90	0.11	0.00	0.11	5.00	6.77	0.74	401.65	399.41	124.60	0.02	15	8.66	4.30	0.48
EX351	EX351	EX352	0.77	0.00	0.00	0.59	0.59	5.48	6.61	3.90	397.63	397.34	51.40	0.01	15	4.85	4.40	0.20
EX352	EX352	Outfall 4	0.41	0.75	0.31	0.59	0.89	5.68	6.55	5.90	397.28	396.90	37.70	0.01	15	6.49	5.99	0.11
	<u> </u>			<u> </u>		<u> </u>				_								
System #1				T 0.45	1 0.00		0.00	<u> </u>	T 6.77	T 0.55	277 20		18.00	T 0.01	T 15	4.57	2.52	0.12
4-1	4-1	4-2	0.18	0.45	0.08	0.00	0.08	5.00	6.77	0.55	377.38 377.19	377.29 370.70	18.00 229.30	0.01	15	10.87	2.52 5.59	0.12
4-2	4-2	3-9	0.08	0.90	0.07	0.08	0.15	5.12	6.73	1.04		361.70	297.20	0.03	15	11.18	6.88	0.08
3-9	3-9	3-8	0.27	0.55	0.15	0.15	0.30	5.80 6.52	6.51 6.30	1.98 3.02	370.60 361.60	356.93	233.70	0.03	15	9.13	6.68	0.72
3-8	3-8	3-6	0.29	0.60	0. 1 7 0. 1 3	0.30	0.48	5.00	6.77	0.86	357.05	356.93	12.20	0.02	15	6.45	3.66	0.06
3-7	3-7	3-6	0.23	0.55 0.70	0.13	0.00 0.60	0.13 0.69	7.11	6.13	4.24	356.83	354.43	120.20	0.01	15	9.13	7.30	0.00
3-6	3-6 EX3-3	EX3-3 EX3-5	0.12 0.23	0.70	0.08	0.60	0.81	7.11	6.06	4.24	354.33	354.06	27.10	0.02	18	10.49	2.81	0.16
EX3-3	_	+	5.37	0.00	0.13	2.15	2.15	25.00	3.60	7.81	355.33	354.06	127.10	0.01	15	6.46	6.36	0.33
EX3-4 EX3-5	EX3-4 EX3-5	+	0.05	0.00	0.00	2.15	3.01	25.00	3.57	10.84	353.96	353.50	46.10	0.01	18	10.49	6.13	0.13
EX3-5	EX4	EX5	0.00	0.90	0.00	3.29	3.29	25.46	3.56	11.80	353.50	341.81	380.10	0.01	18	18.42	11.06	0.57
EX5	EX5	A3400	1.46	0.50	0.73	3.29	4.02	26.03	3.52	14.25	341.76	328.20	502.00	0.03	18	17.26	10.91	0.77
A3400	A3400	A3700	2.10	0.50	1.05	4.02	5.07	26.80	3.47	17.70	328.20	325.50	91.20	0.03	24	38.93	12.10	0.13
A3700	A3700		3.51	0.45	1.58	5.07	6.65	26.92	3.46	23.16	325.50	325.20	106.60	0.00	24	12.00	7.37_	0.24
7 (0 1 0 0		_		0.45	3.24	15.52	18.76	27.16	3.44	65.07	325.20	324.20	230.70	0.00	38''x60''	91.15	8.12	0.47
A3800		TOuttall 11	L.ZU	I U.4J									•	•				
A3800	A3800	Outrail 1	7.20	0.43	1													
	A3800			0.43														
System #2	A3800 2 - POS 1	-DEVELO	PMENT	0.45														
System #2	A3800 2 - POS 1	-DEVELO	PMENT															
System #2 No Storm \$	A3800 2 - POS1 Sewer P	r -DEVELO ipes in Sys	PMENT stem #2	0.43											<u></u>			
System #2 No Storm \$	A3800 2 - POS1 Sewer P	F-DEVELO ipes in Sys F-DEVELO	PMENT stem #2	0.40	1.30	0.00	1.30	10.00	5.46	7.13	386.62	385.76	66.00	0.01	18	11.99	7.08	+
System #2 No Storm S System #3	A3800 2 - POS1 Sewer P 3 - POS1	F-DEVELO ipes in Sys F-DEVELO	PMENT stem #2 PMENT	<u> </u>			1.30 1.49	10.00	5.42	8.17	385.76	385.62	10.80	0.01	18	11.97	7.29	0.03
System #2 No Storm \$ System #3 EX335	A3800 2 - POS1 Sewer P 3 - POS1 EX335 4-3 EX334	r-DEVELO ipes in Sys r-DEVELO 4-3 EX334 EX333	PMENT stem #2 PMENT 3.24	0.40	1.30 0.20 0.00	0.00 1.30 1.49	1.49 1.49	10.16 10.18	5.42 5.42	8.17 8.16	385.76 385.51	385.62 375.68	10.80 126.00	0.01 0.08	18 18	11.97 29.34	7.29 14.21	0.15
System #2 No Storm \$ System #3 EX335 4-3	A3800 2 - POS1 Sewer P 3 - POS1 EX335 4-3 EX334	ipes in Sys r-DEVELC 4-3 EX334	PMENT stem #2 PMENT 3.24 0.22	0.40	1.30 0.20	0.00	1.49	10.16	5.42	8.17	385.76	385.62	10.80	0.01	18	11.97	7.29	0.03 0.15
System #2 No Storm \$ System #3 EX335 4-3 EX334 EX333	A3800 2 - POS1 Sewer P 3 - POS1 EX335 4-3 EX334 EX333	r-DEVELO ipes in Sys r-DEVELO 4-3 EX334 EX333 EX332	PMENT stem #2 PMENT 3.24 0.22 0.00 0.15	0.40 0.90 0.00	1.30 0.20 0.00	0.00 1.30 1.49	1.49 1.49	10.16 10.18	5.42 5.42	8.17 8.16	385.76 385.51	385.62 375.68	10.80 126.00	0.01 0.08	18 18	11.97 29.34	7.29 14.21	0.03 0.15
System #2 No Storm \$ System #3 EX335 4-3 EX334 EX333	A3800 2 - POS1 Sewer P 3 - POS1 EX335 4-3 EX334 EX333	F-DEVELO ipes in Sys F-DEVELO 4-3 EX334 EX333 EX332	PMENT stem #2 PMENT 3.24 0.22 0.00 0.15 PMENT	0.40 0.90 0.00 0.40	1.30 0.20 0.00 0.06	0.00 1.30 1.49 1.49	1.49 1.49 1.55	10.16 10.18 10.33	5.42 5.42 5.39	8.17 8.16 8.44	385.76 385.51 375.68	385.62 375.68 372.04	10.80 126.00 46.70	0.01 0.08 0.08	18 18 18	11.97 29.34 29.33	7.29 14.21 14.34	0.03 0.15 0.05
System #2 No Storm S System #3 EX335 4-3 EX334 EX333 System #4 EX348	A3800 2 - POS1 Sewer P 3 - POS1 EX335 4-3 EX334 EX333	F-DEVELO ipes in Sys F-DEVELO 4-3 EX334 EX333 EX332	PMENT stem #2 PMENT 3.24 0.22 0.00 0.15 PMENT 0.12	0.40 0.90 0.00 0.40	1.30 0.20 0.00 0.06	0.00 1.30 1.49 1.49	1.49 1.49 1.55 0.11	10.16 10.18 10.33 5.00	5.42 5.42 5.39 6.77	8.17 8.16 8.44 0.74	385.76 385.51 375.68 401.65	385.62 375.68 372.04 399.41	10.80 126.00 46.70	0.01 0.08 0.08	18 18 18 18	11.97 29.34 29.33 8.66	7.29 14.21 14.34 4.30	0.03 0.15 0.05
System #2 No Storm \$ System #3 EX335 4-3 EX334 EX333 System #4 EX348 EX348 EX351	A3800 2 - POS1 Sewer P 3 - POS1 EX335 4-3 EX334 EX334 EX333	ipes in System T-DEVELO 4-3 EX334 EX333 EX332 T-DEVELO EX351 EX351	PMENT stem #2 PMENT 3.24 0.22 0.00 0.15 PMENT 0.12 0.77	0.40 0.90 0.00 0.40	1.30 0.20 0.00 0.06	0.00 1.30 1.49 1.49 0.00 0.59	1.49 1.49 1.55 0.11 0.59	10.16 10.18 10.33 5.00 5.48	5.42 5.42 5.39 6.77 6.61	8.17 8.16 8.44 0.74 3.90	385.76 385.51 375.68 401.65 397.63	385.62 375.68 372.04 399.41 397.34	10.80 126.00 46.70 124.60 51.40	0.01 0.08 0.08 0.02 0.01	18 18 18 15 15	11.97 29.34 29.33 8.66 4.85	7.29 14.21 14.34 4.30 4.40	0.03 0.15 0.05 0.48 0.20
System #2 No Storm S System #3 EX335 4-3 EX334 EX333	A3800 2 - POS1 Sewer P 3 - POS1 EX335 4-3 EX334 EX334 EX333	F-DEVELO ipes in Sys F-DEVELO 4-3 EX334 EX333 EX332	PMENT stem #2 PMENT 3.24 0.22 0.00 0.15 PMENT 0.12 0.77	0.40 0.90 0.00 0.40	1.30 0.20 0.00 0.06	0.00 1.30 1.49 1.49	1.49 1.49 1.55 0.11	10.16 10.18 10.33 5.00	5.42 5.42 5.39 6.77	8.17 8.16 8.44 0.74	385.76 385.51 375.68 401.65	385.62 375.68 372.04 399.41	10.80 126.00 46.70	0.01 0.08 0.08	18 18 18 18	11.97 29.34 29.33 8.66	7.29 14.21 14.34 4.30	0.03 0.15 0.05





PROJECT NO. 5G25-060-042

DESIGNED BY: DD

DRAFTED BY: TC

CHECKED BY: BB

SCALE NOT TO SCALE FUND NO. 300-C30050

SHEET

2D(2)

STORMWATER HGL CALCULATIONS

_								LD-34	47 Hydra	nulic Gra	de Line (Comput	ations				O1.	llo Ctro-t C		N. (0 PR 2 - + -	
347	Rev. 7/00														ŀ	ROJECT:		Ils Street Sid	iewaik impr	ovements	
RAULI	C GRADE L	INE														SHEET:	1	OF .	1	-	
	Outlet					I						JUNCTIC	N LOSS							Inlet	
nlet	Water	D ₀	Q_0	1	S _{f0}	$H_{\mathbf{f}}$		_									Plunging	Shaping	Final	Water	Rim
mber	Surface	□ □0	∽0	∟ 0	o _{f0}	' 'f	V_0	H_0	Q_{i}	V_{i}	Q_iV_i	V_i^2	H_{i}	Angle	$H_{\scriptscriptstyle{\Delta}}$	H_{t}	H _t	H _t	Н	Surface	Elev.
	Elev.				 	ļ						2g				(1.5)		(4.5)	(40)	Elev.	(0.4)
1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
em #1		ELOPMENT											0.00			0.04	0.04	0.04	0.04	T 055 40	200.00
<u>(3-3 </u>	355.47	18	1.95	27	0.000	0.00	1.35	0.01 0.19	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.01 0.19	0.0 <u>1</u> 0.25	0.01 0.12	0.01 2.37	355.48 357.84	360.23 361.75
(3-4 (3-5	355.47 354.97	15 18	8.59 9.73	127 46	0.018 0.008	2.25 0.22	7.00 6.27	0.19	8.59	7.00	60.13	0.00	0.00	15.36	0.00	0.19	0.25	0.12	0.51	355.48	360.00
. <u>.s-s </u>	343.40	18	9.73 10.70	380	0.000	11.35	6.77	0.18	9.73	5.53	53.81	0.47	0.17	15.09	0.09	0.43	0.43	0.22	11.57	354.97	359.40
X5	330.32	18	13.16	502	0.026	12.80	7.83	0.24	10.70	6.05	64.74	0.57	0.20	0.01	0.00	0.44	0.57	0.29	13.09	343.41	347.94
400	329.12	24	16.62	91	0.009	0.55	6.72	0.18	13.16	7. <mark>45</mark>	98.04	0.86	0.30	68.03	0.52	1.00	1.30	0.65	1.20	330.32	332.40
3700	327.87	24	22.08	107	0.010	1.02	7.03	0.19	16.62	5.29	87.92	0.43	0.15	4.28	0.02	0.37	0.48	0.24	1.26	329.13 327.86	330.20 330.35
8800	326.76	38''x60''	64.00	231	0.004	0.48	7.55	0.22	22.08	7.03	155.22	0.77	0.27	69.75	0.47	0.96	1.2 <u>5</u>	0.62	1.10	327.00	330.30
em #2	- PRF-DF\/I	ELOPMENT																			
		in System #2																			
		o , o																			
		ELOPMENT											0.00		0.00	0.40	<u> </u>	0.40	0.00	1 007 70	004.0
335	386.89	15	7.13	77	0.012	0.80	6.38	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.21	0.10	0.90 9.86	387.79 386.89	391.98 391.98
334	377.03	18	8.16 8.44	126	0.077_ 0.078	9.59 3.57	5.84 5.94	0.13 0.14	7.13 8.16	5 <u>.</u> 81 4.88	41.43 39.82	0.52 0.37	0.18 0.13	14.74 44.78	0.10	0.41 0.44	0.5 <u>3</u> 0.44	0.27 0.22	3.79	377.03	382.96
333_	373.24	18	0.44	47	0.076	3.37	J.9 4	0.14	0.10	4.00	09.02	0.07	0.10	44.70	0.17	0.44	0.41	0.22	0.70	1 011.00	002.0
em #4	- PRE-DEVI	ELOPMENT																			
348	399.66	15	0.74	125	0.017	2.33	2.78	0.03	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.02	2.35	402.01	405.2
351	398.44	15	3.90	51	0.004	0.13	3.91	0.06	0.74	0,60	0.44	0.01	0.00	82.33	0.00	0.00	0.00	0.00	0.13	398.57	403.9
(352_	397.90	15	5.90	38	0.010	0.36	5.70	0.13	3.90	3,40	13.26	0.18	0.06	49.85	0.09	0.28	0.36	0.18	0.54	398.44	403.92
_																					
		VELOPMEN		40	0.004	0.00	2.52	0.02	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.01	0.03	377.68	381.4°
1-1 1-2	377.65 371.21	15 15	0.55 1.04	18 229	0.00 <u>4</u> 0.028	0.02 6.38	2.52 3.06	0.02	0.00	1,88	1.03	0.05	0.00	89.72	0.04	0.02	0.03	0.06	6.44	377.65	383.04
	362.38	15	1.98	297	0.020	8.78	3.71	0.05	1.04	2.19	2.28	0.07	0.03	1.26	0.00	0.08	0.10	0.05	8.83	371.21	375.08
3-8	357.77	15	3.02	234	0.020	4.53	4.28	0.07	1.98	2.93	5.80	0.13	0.05	0.15	0.00	0.12	0.16	0.08	4.61	362.38	366.39
3-7	357.77	15	0.86	12	0.000	0.00	1.18	0.01	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	357.78	361.04
3-6	356.01	15	4.24	120	0.015	1.65	4.87	0.09	3.02	3,43	10.36	0.18	0.06	86.02	0.01	0.17	0.22	0.11	1.76	357.77	362.01
(3-3	355.80	18	4.96	27	0.002	0.06	2.81	0.03	4.24	3,46	14.67	0.19	0.06	94.55	0.13	0.23	0.30	0.15	0.21	356.01	360.23
<u>(3-4</u>	355.80	15	7.81	127	0.015	1.86	6.36	0.16 0.15	0.00 7.81	0,00 6,36	0.00 49.67	0.00 0.63	0.00 0.22	0.00 15.36	0.00 0.12	0.16 0.49	0.2 <u>1</u> 0.49	0.10 0.25	1.96 0.74	357.76 355.81	361.75 360.00
(3-5	355.07 343.48	18 18	10.84 11.80	46 380	0.01 <u>1</u> 0.030	0.49 11.32	6.13 7.23	0.13	10.84	6,13	49.07 66.45	0.63	0.22	15.09	0.12	0.49	0.43	0.26	11.58	355.06	359.40
'V /I	330.46	18	14.25	502	0.035	12.68	8.35	0.27	11.80	6,68	78.82	0.69	0.24	0.01	0.00	0.51	0.66	0.33	13.01	343.47	347.94
	329.32	24	17.70	91	0.007	0.40	6.93	0.19	14.25	8.07	115.00	1.01	0.35	68.03	0.61	1.15	1.50	0.75	1.15	330.47	332.40
X5		24	23.16	107	0.010	1.12	7.37	0.21	17.70	5,63	99.65	0.49	0.17	4.28	0.03	0.41	0.53	0.27	1.39	329.32	330.20
X5 400	327.93														0.50	1.04	1.35	0.68	1.18	327.94	330.3
X5 400 700	327.93 326.76	38"x60"	65.07	231	0.004	0.50	7.60	0.22	23.16	7.37	170.69	0.84	0.30	69.75	0.52	1.07		•			
X5 400 700 800	326.76	38''x60''		231	0.004	0.50	7.60	0.22	23.16	7,37	170.69	0.84	0.30	69.75	0.02	1.0-1					
X5 400 700 800 em #2	326.76 - POST-DE	38"x60" VELOPMEN	ΙΤ	231	0.004	0.50	7.60	0.22	23.16	7,37	170.69	0.84	0.30	69.75	0.52	1.0 1					
X5 400 700 800 em #2	326.76 - POST-DE	38''x60''	ΙΤ	231	0.004	0.50	7.60	0.22	23.16	7.37	170.69	0.84	0.30	69.75	0.52	1.01					
X5 400 700 800 em #2 torm S	326.76 - POST-DE Sewer Pipes	38"x60" VELOPMEN in System #	i T 2	231	0.004	0.50	7.60	0.22	23.16	7.37	170.69	0.84	0.30	69.75	0.52	1.01					
X5 400 700 800 em #2 torm \$	326.76 - POST-DE Sewer Pipes	38"x60" VELOPMEN	i T 2	231	0.004	0.50	7.60 5.49	0.22	0.00	0.00	0.00	0.84	0.30	0.00	0.00	0.12	0.16	0.08	0.71	387.74	
×5 400 700 800 em #2 torm \$ em #3 335	326.76 - POST-DE Sewer Pipes - POST-DE	38"x60" VELOPMEN in System #: VELOPMEN	IT	66 11	0.012 0.012	0.63 0.06	5.49 5.84	0.12 0.13	0.00 7.13	0.00 4.48	0.00 31.94	0.00 0.31	0.00 0.11	0.00	0.00	0.12 0.24	0.16 0.31	0.16	0.22	387.03	392.0
x5 400 700 800 em #2 torm \$ 335 -3 334	326.76 - POST-DE Sewer Pipes - POST-DE 387.03 386.81 377.03	38"x60" VELOPMEN in System # VELOPMEN 18 18 18	7.13 8.17 8.16	66 11 126	0.012 0.012 0.077	0.63 0.06 9.59	5.49 5.84 5.84	0.12 0.13 0.13	0.00 7.13 8.17	0.00 4.48 5.45	0.00 31.94 44.53	0.00 0.31 0.46	0.00 0.11 0.16	0.00 0.00 14.74	0.00 0.00 0.09	0.12 0.24 0.38	0.16 0.31 0.38	0.16 0.19	0.22 9.78	387.03 386.81	392.0 391.9
400 700 300 em #2 form \$ 335 -3	326.76 - POST-DE Sewer Pipes - POST-DE 387.03 386.81	38"x60" VELOPMEN in System #: VELOPMEN 18 18	7.13 8.17	66 11	0.012 0.012	0.63 0.06	5.49 5.84	0.12 0.13	0.00 7.13	0.00 4.48	0.00 31.94	0.00 0.31	0.00 0.11	0.00	0.00	0.12 0.24	0.16 0.31	0.16	0.22	387.03	392.0 391.9
x5 400 700 800 em #2 torm \$ 335 -3 334 333	326.76 - POST-DE Sewer Pipes - POST-DE 387.03 386.81 377.03 373.24	38"x60" VELOPMEN in System #: VELOPMEN 18 18 18 18 18	7.13 8.17 8.16 8.44	66 11 126	0.012 0.012 0.077	0.63 0.06 9.59	5.49 5.84 5.84	0.12 0.13 0.13	0.00 7.13 8.17	0.00 4.48 5.45	0.00 31.94 44.53	0.00 0.31 0.46	0.00 0.11 0.16	0.00 0.00 14.74	0.00 0.00 0.09	0.12 0.24 0.38	0.16 0.31 0.38	0.16 0.19	0.22 9.78	387.03 386.81	392.0 391.9
X5 400 700 800 em #2 torm \$ (335 1-3 (334 (333 em #4	326.76 - POST-DE Sewer Pipes - POST-DE 387.03 386.81 377.03 373.24 - POST-DE	38"x60" VELOPMEN in System #: VELOPMEN 18 18 18 18 18 VELOPMEN	7.13 8.17 8.16 8.44	66 11 126 47	0.012 0.012 0.077 0.078	0.63 0.06 9.59 3.57	5.49 5.84 5.84 5.94	0.12 0.13 0.13 0.14	0.00 7.13 8.17 8.16	0.00 4.48 5.45 4.88	0.00 31.94 44.53 39.82	0.00 0.31 0.46 0.37	0.00 0.11 0.16 0.13	0.00 0.00 14.74 44.78	0.00 0.00 0.09 0.17	0.12 0.24 0.38 0.44	0.16 0.31 0.38 0.44	0.16 0.19	0.22 9.78	387.03 386.81	392.0 391.9 382.9
x5 400 700 800 em #2 torm \$ (335 1-3 (334 (333 em #4	326.76 - POST-DE Sewer Pipes - POST-DE 387.03 386.81 377.03 373.24 - POST-DE 399.66	38"x60" VELOPMEN in System #: VELOPMEN 18 18 18 18 18 18 18	7.13 8.17 8.16 8.44	66 11 126 47	0.012 0.012 0.077 0.078	0.63 0.06 9.59 3.57	5.49 5.84 5.84 5.94	0.12 0.13 0.13	0.00 7.13 8.17	0.00 4.48 5.45	0.00 31.94 44.53	0.00 0.31 0.46	0.00 0.11 0.16	0.00 0.00 14.74	0.00 0.00 0.09	0.12 0.24 0.38	0.16 0.31 0.38	0.16 0.19 0.22	0.22 9.78 3.79	387.03 386.81 377.03	392.0 391.9 382.9 405.2
tem #3 (335 4-3 (334 (333	326.76 - POST-DE Sewer Pipes - POST-DE 387.03 386.81 377.03 373.24 - POST-DE	38"x60" VELOPMEN in System #: VELOPMEN 18 18 18 18 18 VELOPMEN	7.13 8.17 8.16 8.44	66 11 126 47	0.012 0.012 0.077 0.078	0.63 0.06 9.59 3.57	5.49 5.84 5.84 5.94	0.12 0.13 0.13 0.14	0.00 7.13 8.17 8.16	0.00 4.48 5.45 4.88	0.00 31.94 44.53 39.82	0.00 0.31 0.46 0.37	0.00 0.11 0.16 0.13	0.00 0.00 14.74 44.78	0.00 0.00 0.09 0.17	0.12 0.24 0.38 0.44	0.16 0.31 0.38 0.44	0.16 0.19 0.22 0.02	0.22 9.78 3.79 2.35	387.03 386.81 377.03 402.01	391.95 392.04 391.95 382.96 405.27 403.97

DERIK DOUGHTY

B Lic. No. 0402055074

CONAL

COMMERCE Park Drive, Suite 400, Reston, VA 20191

Phone: 703-674-1300

EMERGENCY POLICE - FIRE - RESCUE 911

FAIRFAX COUNTY, VIRGINIA

DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

CAPITAL FACILITIES
703-324-5800

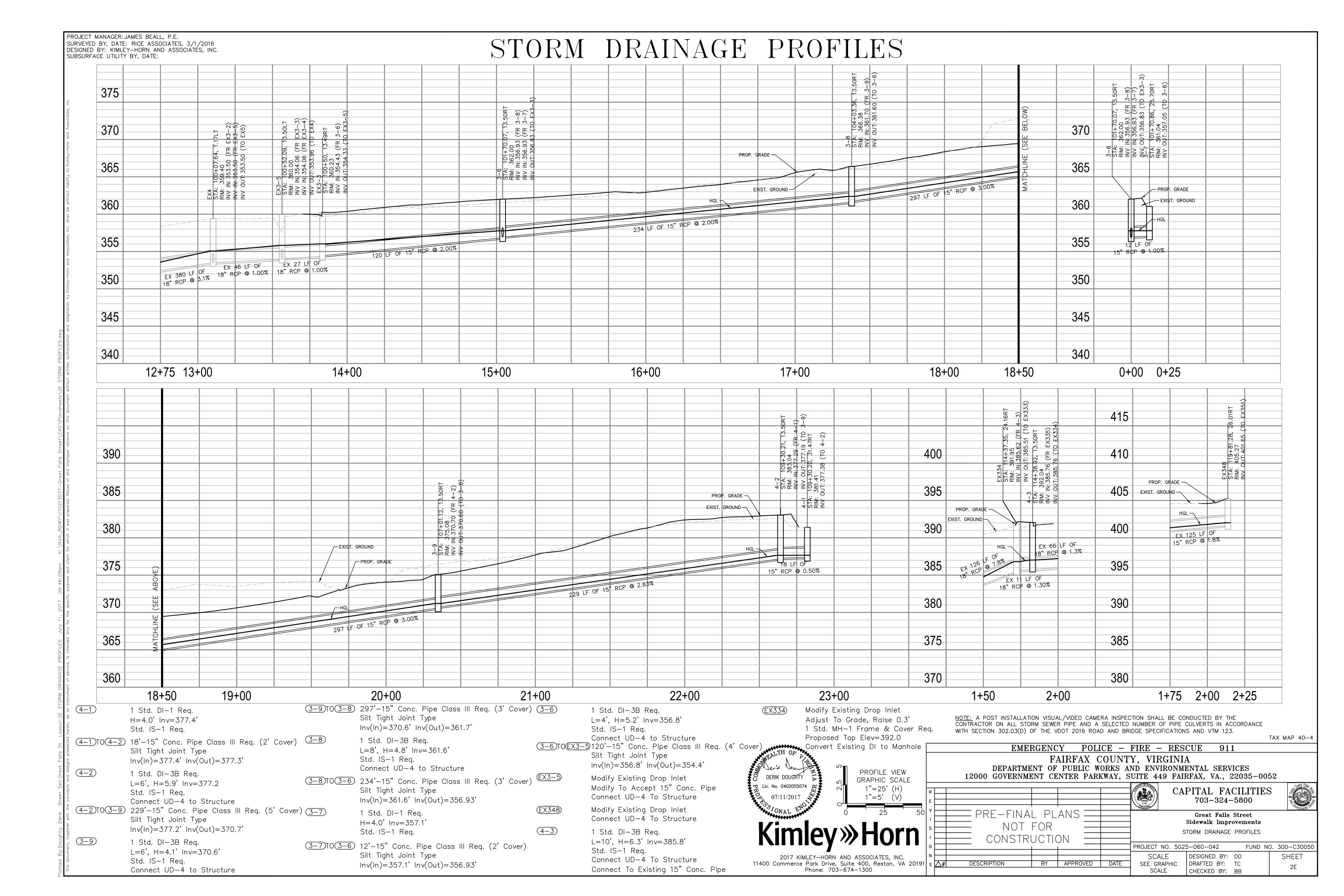
— PRE-FINAL PLANS

Great Falls Street

Great Falls Street
Sidewalk Improvements
STORM DRAINAGE COMPUTATIONS

PROJECT NO. 5G25-060-042 FUND NO. 300-C30050

SCALE DESIGNED BY: DD SHEET
NOT TO DRAFTED BY: TC 2D(3)

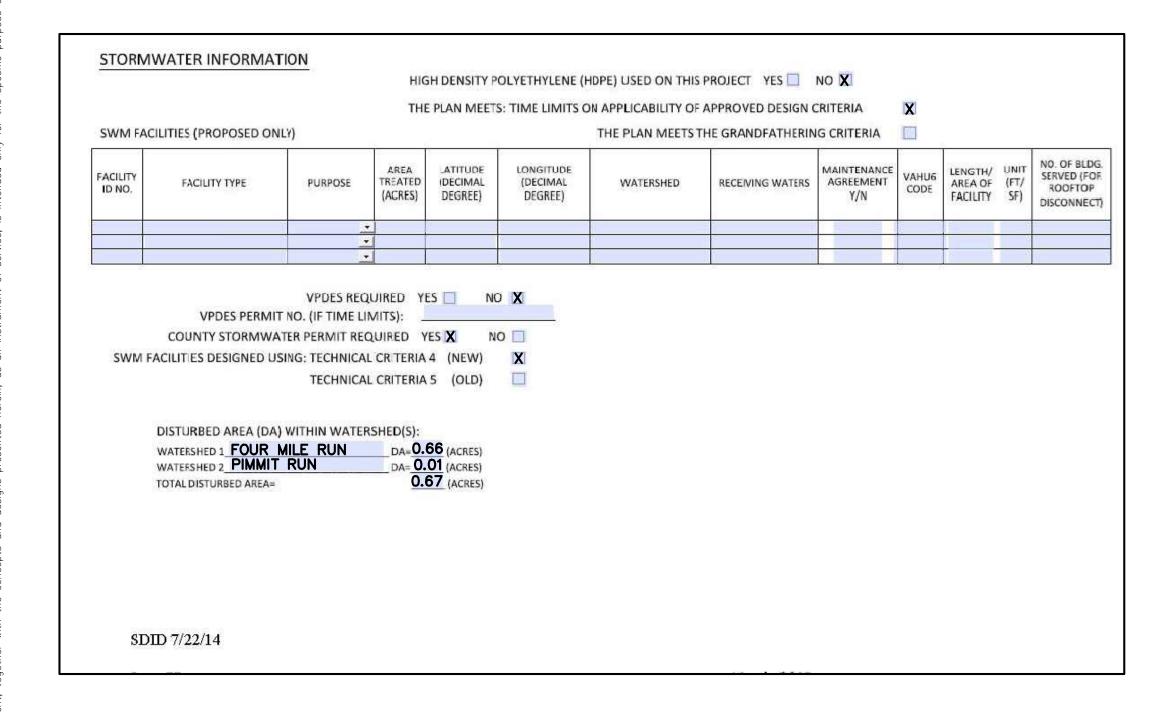


PROJECT	INFORMATION				
PROJECT INFORMATION					
PROJECT NAME	GREAT FALLS STREET	SIDEWA	LK IMPF	ROVEMENTS	
COUNTY PROJECT NUMBER	5G25-060-042				
VDOT UPC NUMBER (IF APPLICABLE)	N/A I	N/A		N/A	
PROJECT LIMITS / LENGTH	1,500 LF OF SIDEWAL	K			
FUNDING SOURCE	300-C30050				
DATE OF FUNDING OBLIGATION					
LATITUDE/ LONGITUDE	LAT 38.896102		LONG	-77.176971	
6TH ORDER HUC	020700100301 AND (0207001	00103		
TYPE OF DEVELOPMENT: (SELECT ALL THAT APPLY	r)				
NEW DEVELOPMENT					
REDEVELOPMENT					
X LINEAR DEVELOPMENT					
NON-LINEAR DEVELOPMENT					
STORMWATER MANAGEMENT TECHNICAL CRITERIA U	ISED:				
X VSMP TECHNICAL CRITERIA IIB / FFX	CO STORMWATER MAN	IAGEMEN	IT ORDIN	NANCE ARTICLE	4
☐ VSMP TECHNICAL CRITERIA IIC / FFX	CO STORMWATER MAN	IAGEMEN	IT ORDIN	NANCE ARTICLE	5
SWM WAIVER/EXCEPTION(S) REQUIRED: YES X N	NO APPROVA	L DATE	:		
TYPE(S): WATER QUANTITY CONTROL EXCEPTION	LDS NUM	IBER:			
CONSTRUCTION SITE ESTIMATES					
TOTAL SITE AREA	0.67	(AC)		29,185	(SF)
TOTAL DISTURBED AREA	0.67	(AC)		29,185	(SF)
TOTAL SITE IMPERVIOUS AREA	PRE 0.25	(AC)	POST	0.38	(AC)
VPDES PERMIT REQUIREMENTS (CHECK ONE):					
X DISTURBED AREA < 1 (AC); VPDES PERMIT	NOT REQUIRED.				
☐ DISTURBED AREA ≥ 1 (AC); VPDES PERMIT	IS REQUIRED.				
RECEIVING WATERS					
RECEIVING STREAM	MANMADE STORWATER	PIPE S	SYSTEM		
WATERSHED	FOUR MILE RUN AND	PIMMIT	RUN		
IS PROJECT LOCATED WITHIN THE WATER SUPPLY OVERLAY DISTRICT (WSPOD) IF YES SEE NOTE 3	PROTECTION		YE	S NOX	
IS THERE A LOCAL TMDL RESTRICTION WITHIN THE	PROJECT WATERSHED	AREA	YE	S NOX	
IF YES PROVIDE DESCRIPTION OF IMPAIRED WATERS					

NOTE:

- (1.) FOR ADDITIONAL DETAILS SEE THE LATEST REVISION OF THE DRAINAGE/SWM REPORT AND EROSION AND SEDIMENT CONTROL PLAN SHEET.
- (2.) THIS IS A COUNTY ADMINISTERED PROJECT AND THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP) IS PREPARED BY FAIRFAX COUNTY. WHEN APPLICABLE, IT WILL BE INCLUDED WITH VPDES AND CONSTRUCTION PACKAGE.
- (3.) PURCHASE OF NUTRIENT CREDITS MAY NOT BE USED TO SATISFY DEQ'S WATER QUALITY REQUIREMENTS ON PROJECTS LOCATED WITHIN THE WATER SUPPLY PROTECTION OVERLAY DISTRICT (WSPOD).

STORMWATER INFORMATION TABLE



PROJECT DATA SHEET

TABLE 1.

WATER QUALITY ANALYSIS PER VSMP TECHNICAL CRITERIA IIB / FFX CO STORMWATER MANAGEMENT ORDINANCE ARTICLE 4

RECEIVING WATERS	ou	JTFALL	TO1 DISTU AR	RBED	PRE	DEVELOPMENT	LAND USE	POST	DEVELOPMENT	LAND USE	PHOSPHORUS REMOVAL REQUIRED *	ON-SITE PHOSPHORUS REMOVAL PROVIDED *	IS PRO LOCATED WSP	WITHIN
	ID	LOCATION	(AC)	(SF)	FORESTED (AC)	TURF (AC)	IMPERVIOUS AREA (AC)	FORESTED (AC)	TURF (AC)	IMPERVIOUS AREA (AC)	(LB/YR)	(LB/YR)	YES (3)	NO (4)
FOUR MILE RUN	#1	OFFSITE	0.48	20,909	0.00	0.35	0.13	0.00	0.20	0.28	0.34	0.00		NO
FOUR MILE RUN	#2	OFFSITE	0.14	6,098	0.00	0.04	0.10	0.00	0.07	0.07	0.00	0.00		NO
FOUR MILE RUN	#3	OFFSITE	0.04	1,742	0.00	0.02	0.02	0.00	0.02	0.02	0.01	0.00		NO
PIMMIT RUN	#4	OFFSITE	0.01	436	0.00	0.01	0.00	0.00	0.00	0.01	0.02	0.00		NO
NOTE:					_					TOTAL	0.37	0.00		

(4.) PHOSPHORUS REMOVAL MAY BE PROVIDED BY THE PURCHASE OF OFFSITE NUTRIENT CREDITS. PLEASE SEE TABLE 2 BELOW FOR MORE INFORMATION.

TABLE 2.

OFFSITE COMPLIANCE FOR WATER QUALITY (NUTRIENT CREDITS)

NUTRIENT CREDIT BANK	4TH	NUTRIENT CREDIT	PURCHASE LETTER
NAME	ORDER	TO BE ACQUIRED	(MM/DD/YY)
(5)	HUC	(LB/YR)	(5)
NAME TO BE PROVIDED UPON PURCHASE			/ /

(5.) EVIDENCE OF NUTRIENT CREDIT PURCHASE WILL BE PROVIDED ON SHEET 2F(1) AFTER SWM APPROVAL BY COUNTY LDS AND VDOT. PLEASE SEE LEDGER BELOW FOR EVIDENCE OF NUTRIENT CREDIT AVAILABILITY/RESERVATION.

EVIDENCE OF NUTRIENT CREDIT AVAILABILITY

			Purchase	e #1: L	edger- Elk	Run (DEQ Certificat	tion No. Pot	omac-003)	Bulk Purcha	se of Nutri	ent Credits	by Fairfax	County DO	Т			
					[Draw Down	Quantit	y for Ir	ndividua	al Proje	ects						
Proj. #	Project Name	UPC # (if any)	Funding Source	Fund Number	Proejct Location 8 Digit HUC	Watershed Name	Phosphorous Removal Required (Ibs/yr)	Cost/Project	TP Transferred (LB)	TP Balance Remaining (LB)	TN Retired (LB)	TN Balance Remaining (LB)	DEQ Permit #	Purchase Agreement Date	Date Requested	Date of Credit Transfer	Comments
			2014			Middle Potomac-Anacostia-											

SITE DEVELOPMENT AND INSPECTION DIVISION APPROVAL STAMP

OWNER/REPRESENTATIVE CONTACT **INFORMATION**

NAME:

PHONE NUMBER: **EMAIL ADDRESS:**

ADDRESS: UTILITIES DESIGN AND

CONSTRUCTION DIVISION

12000 GOVERNMENT CENTER PKWY

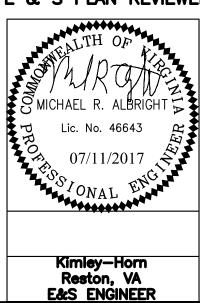
SUITE 463

FAIRFAX, VA 22035

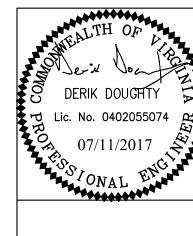
DESCRIPTION

TAX MAP 40-4





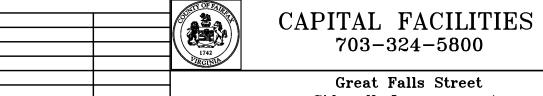
CONSULTANT STORMWATER MANAGEMENT PLAN **REVIEWER**



2017 KIMLEY-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400, Reston, VA 20191 s 🔼# Phone: 703-674-1300

FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

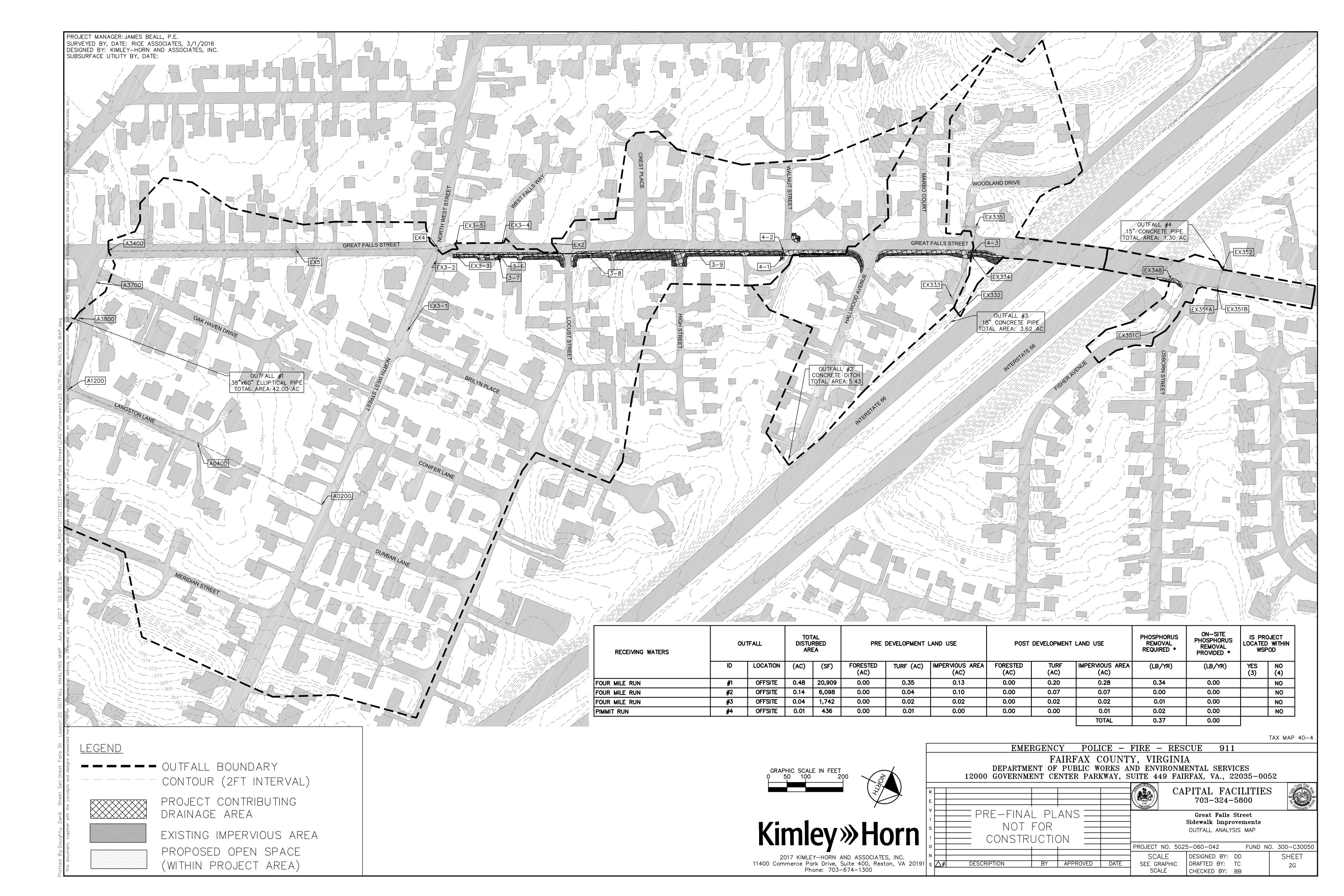
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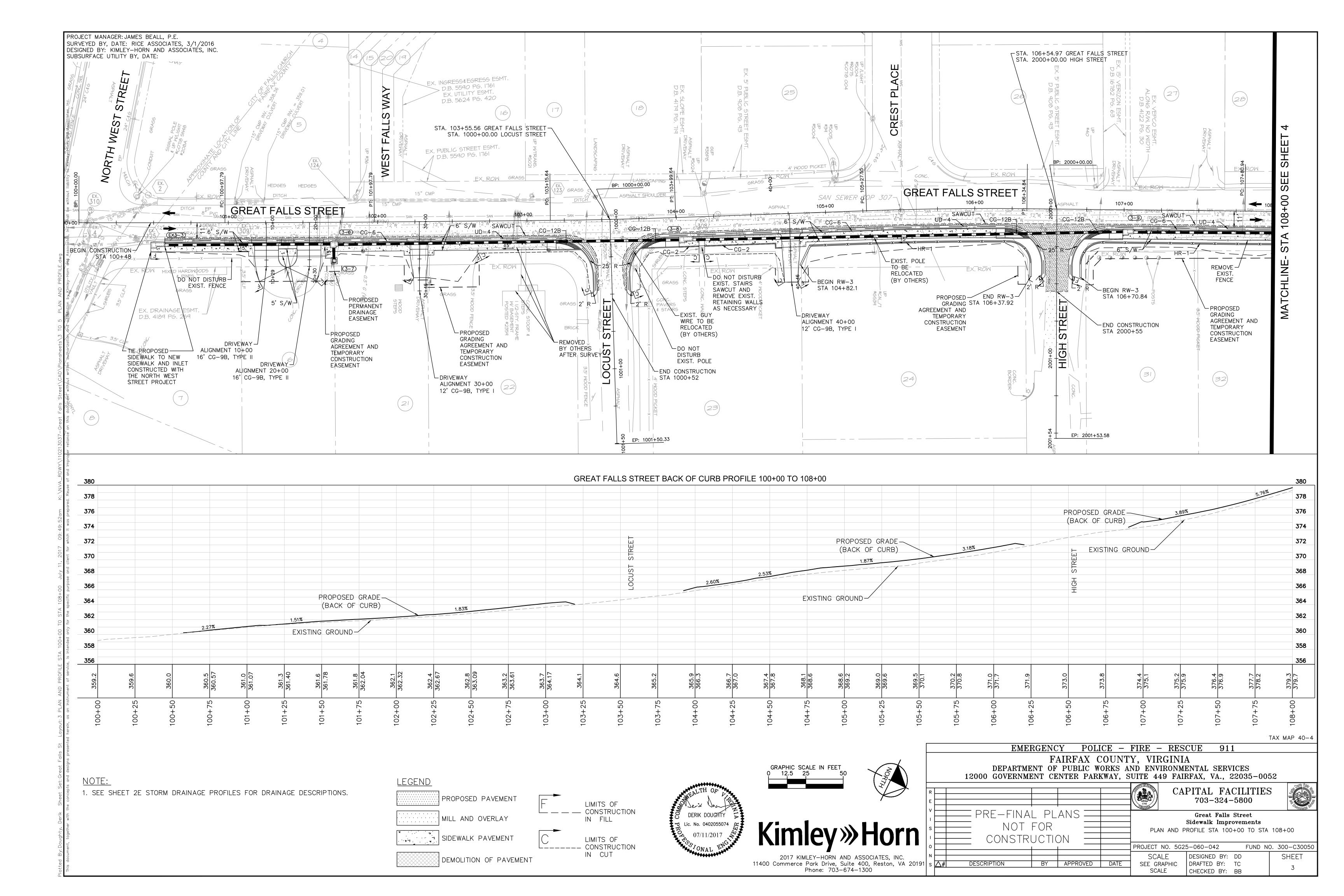


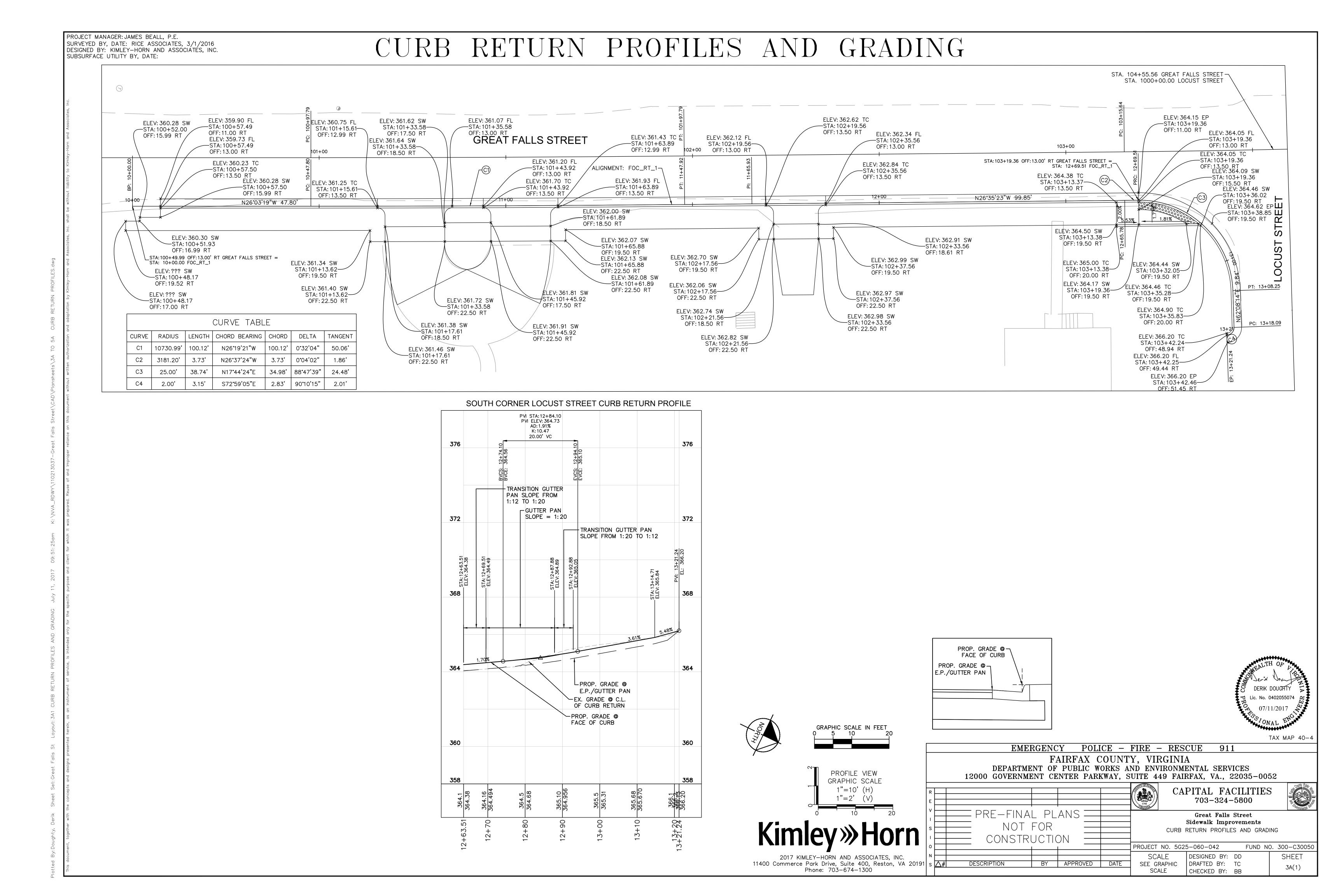
Sidewalk Improvements PROJECT DATA SHEET

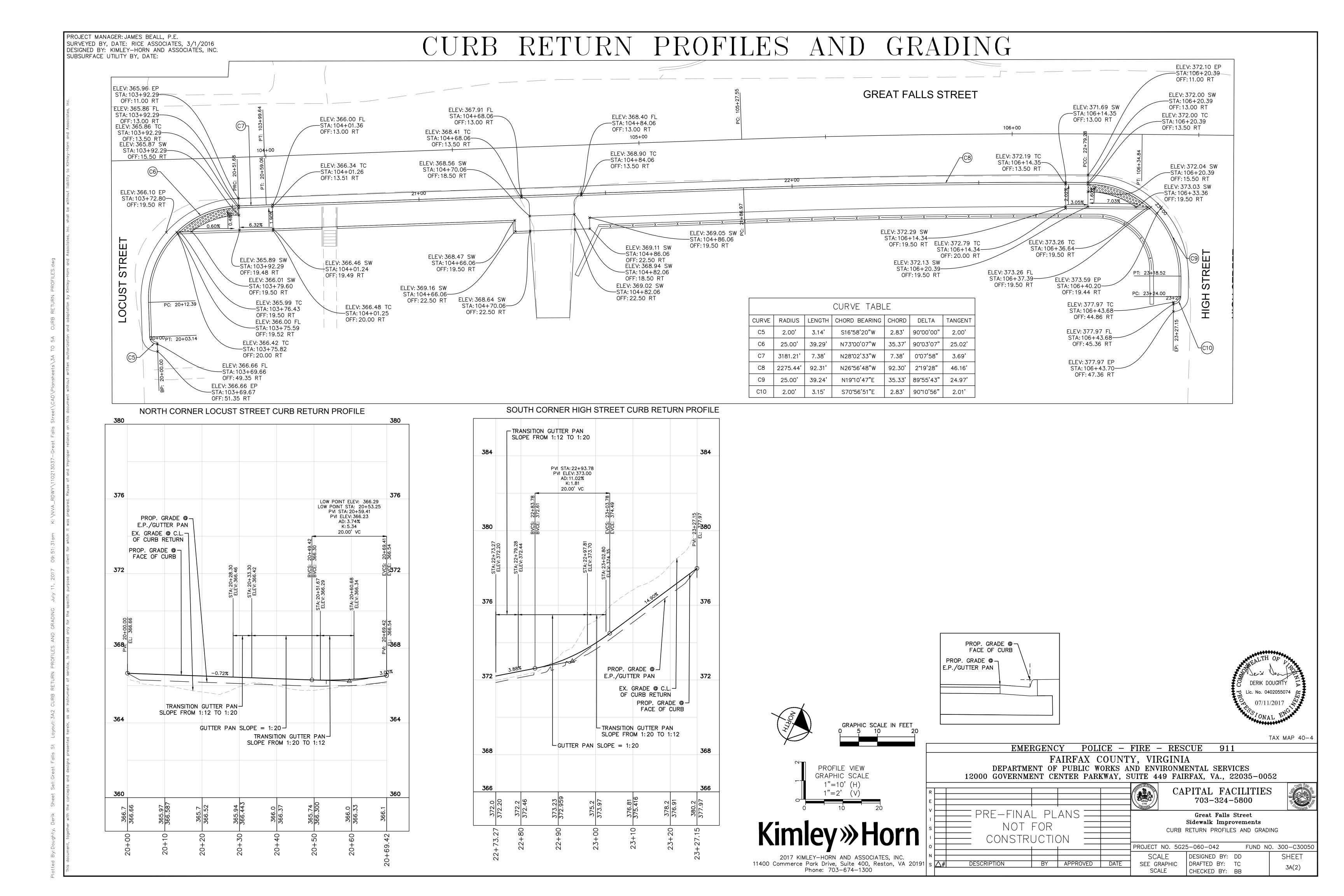
PROJECT NO. 5G25-060-042 FUND NO. 300-C30050 DESIGNED BY: DD SHEET BY APPROVED DATE NOT TO DRAFTED BY: TC 2F SCALE CHECKED BY: BB

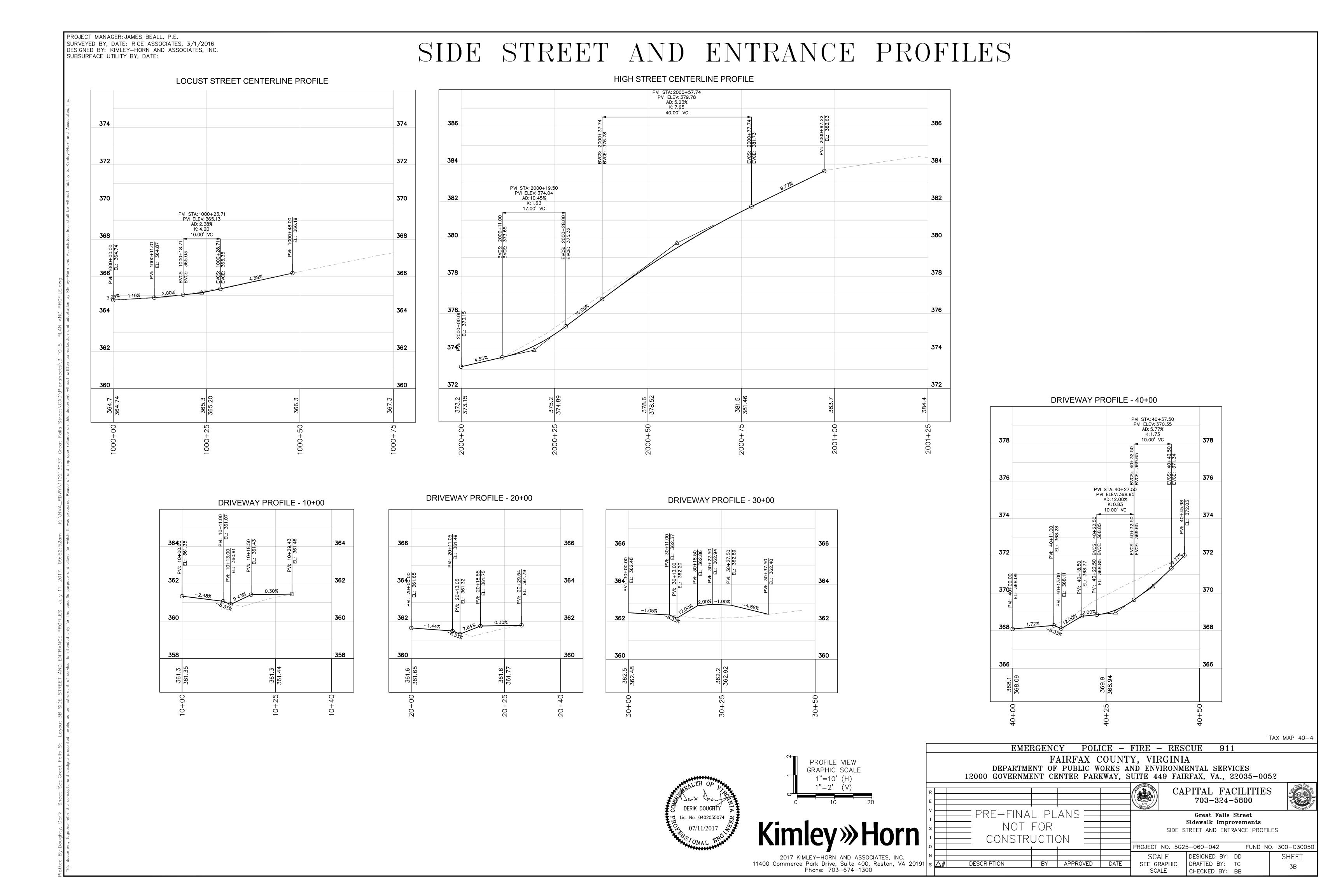
Kimley-Horn Reston, VA DRAINAGE ENGINEER

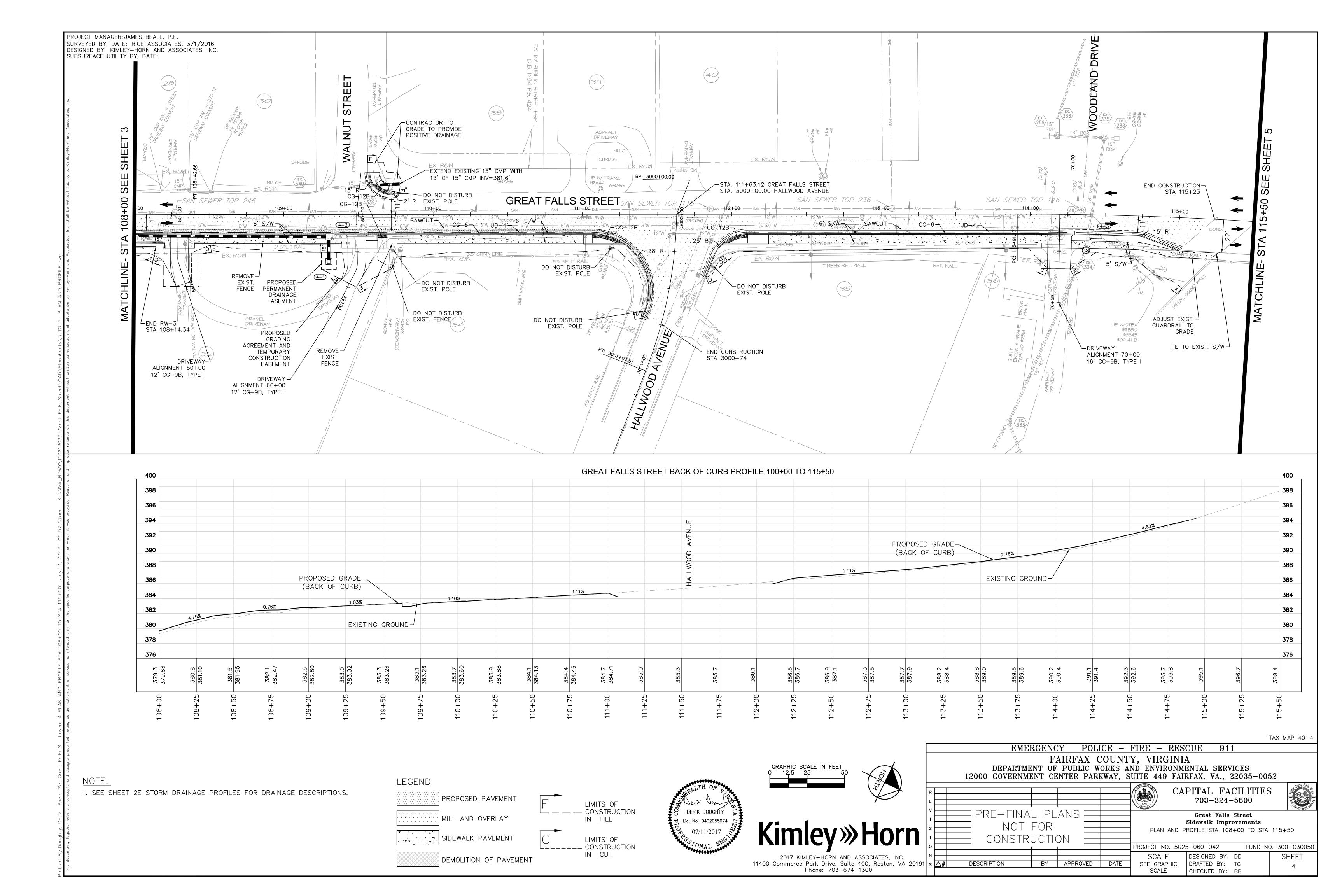


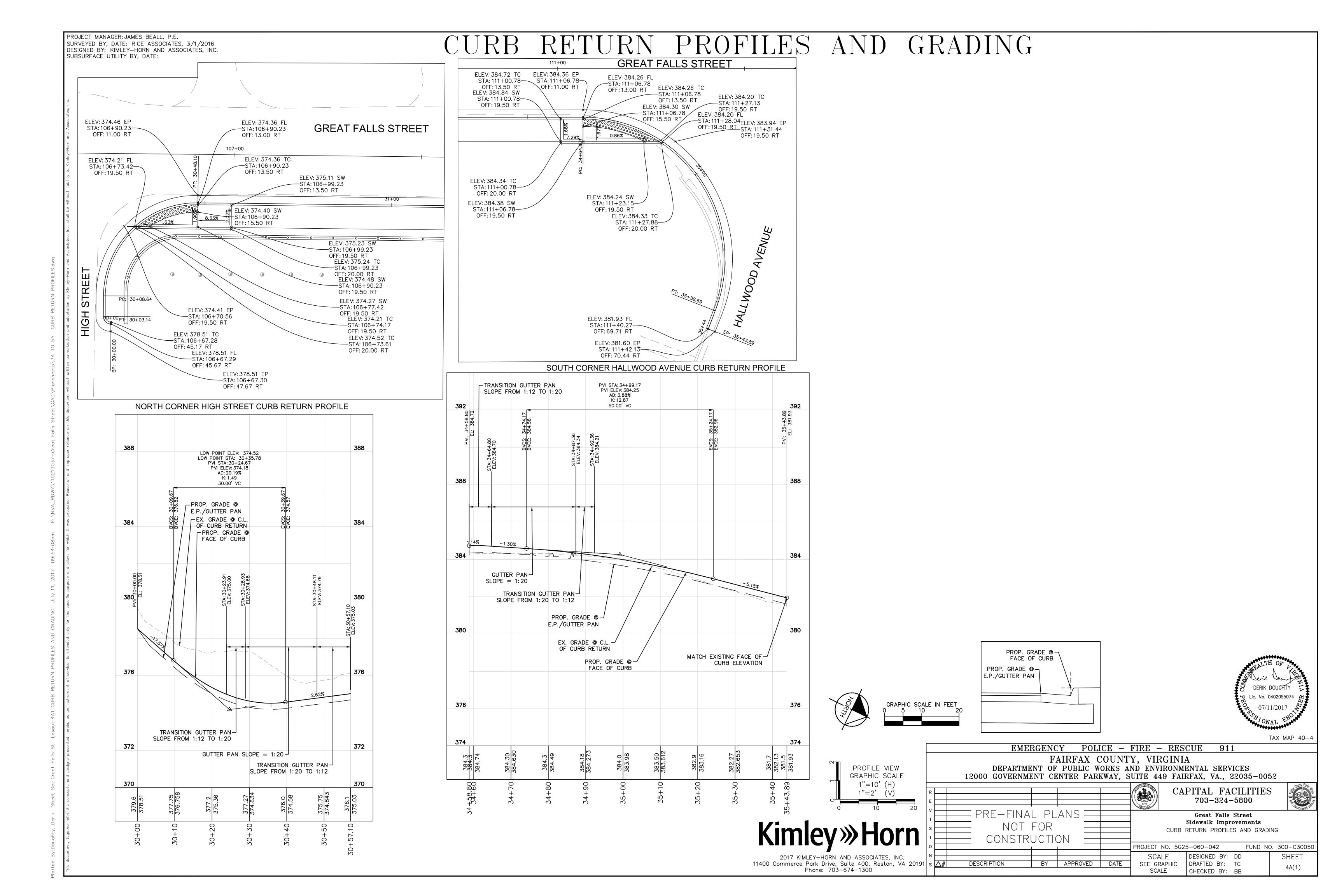




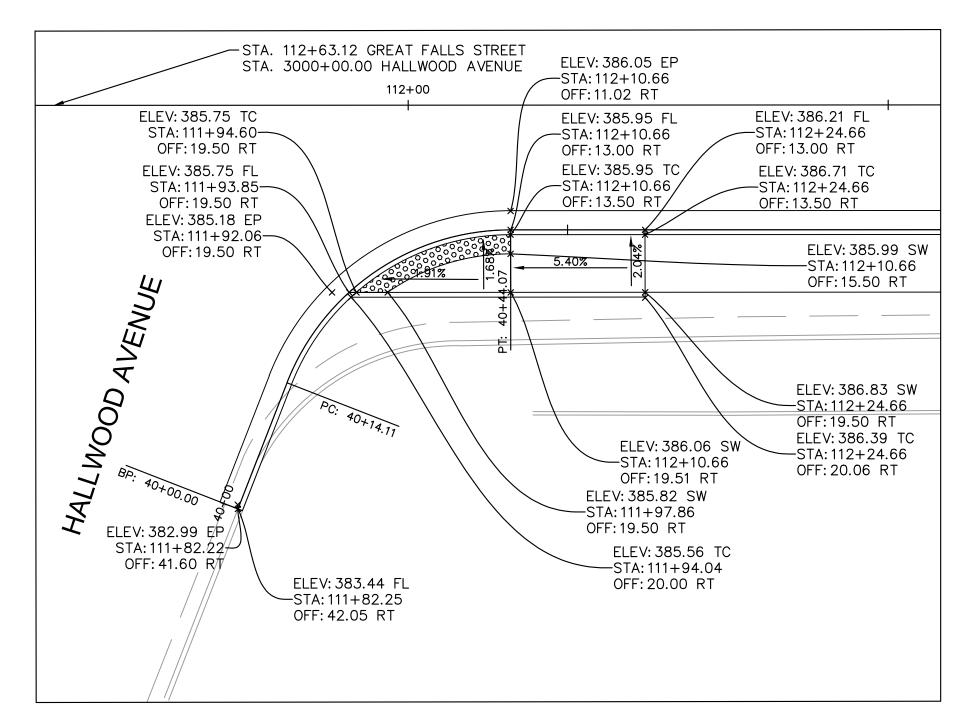




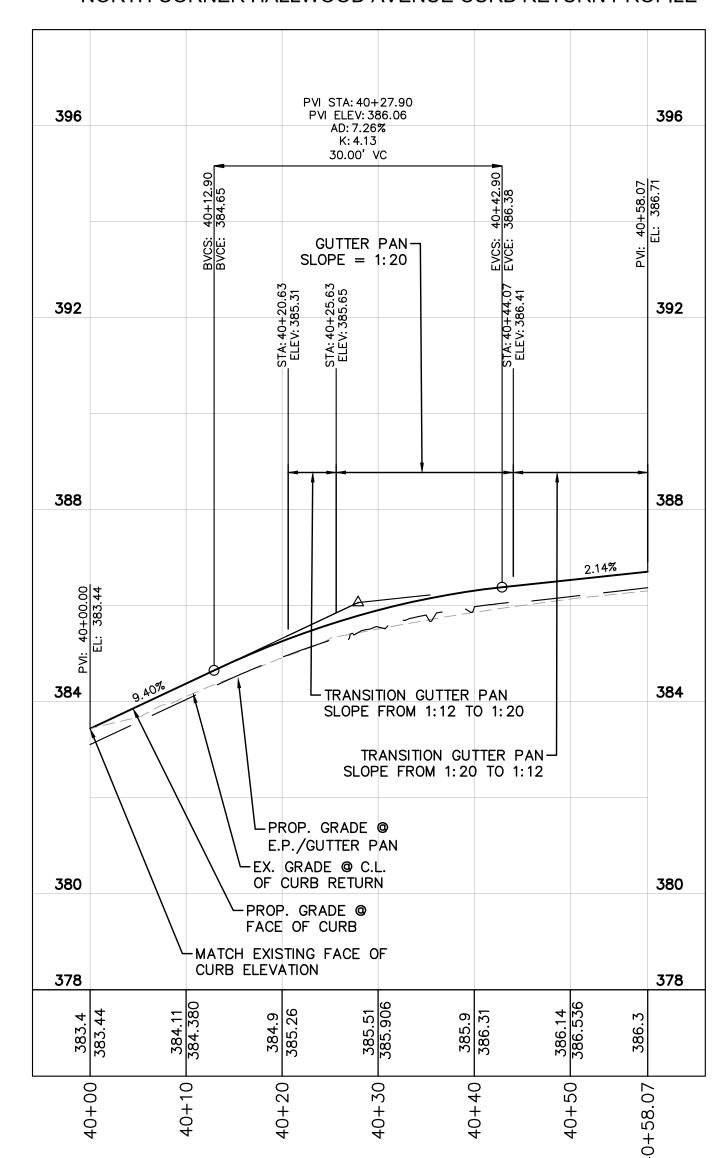


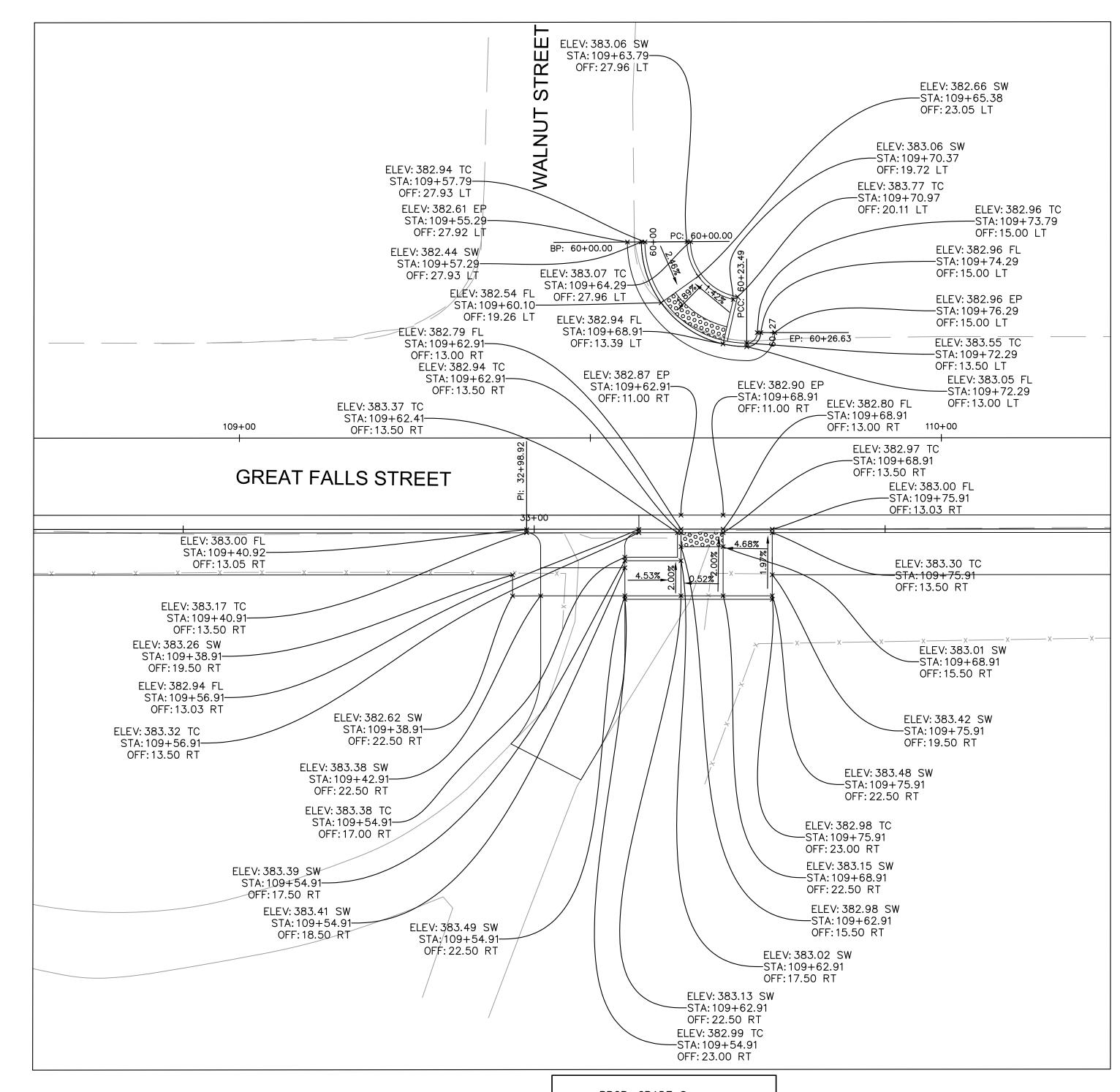


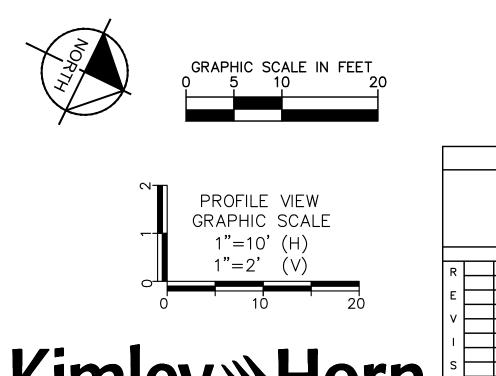
CURB RETURN PROFILES AND GRADING

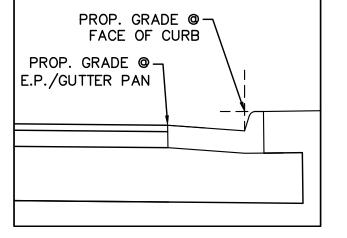


NORTH CORNER HALLWOOD AVENUE CURB RETURN PROFILE

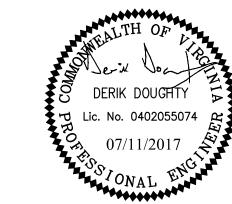




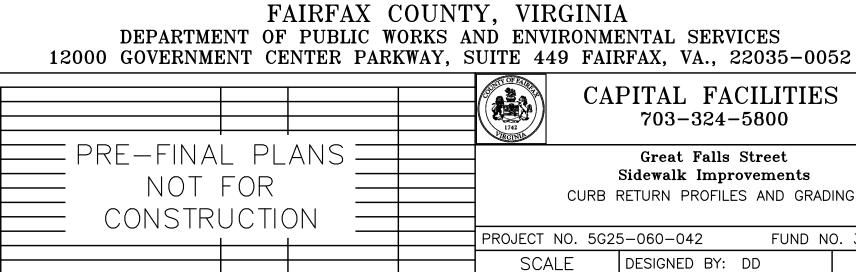




DESCRIPTION



TAX MAP 40-4



EMERGENCY POLICE - FIRE - RESCUE 911

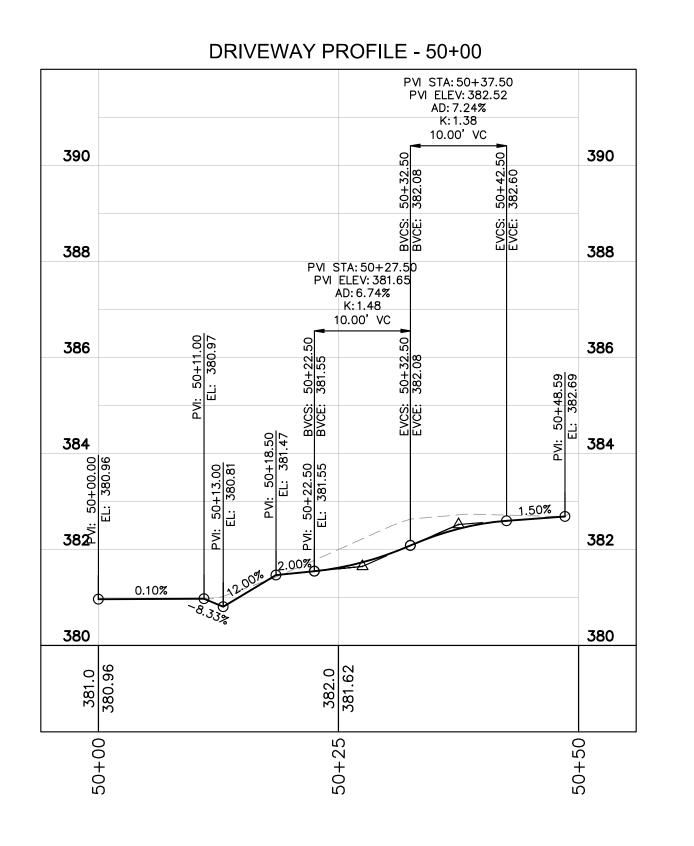
CAPITAL FACILITIES 703-324-5800

Great Falls Street Sidewalk Improvements

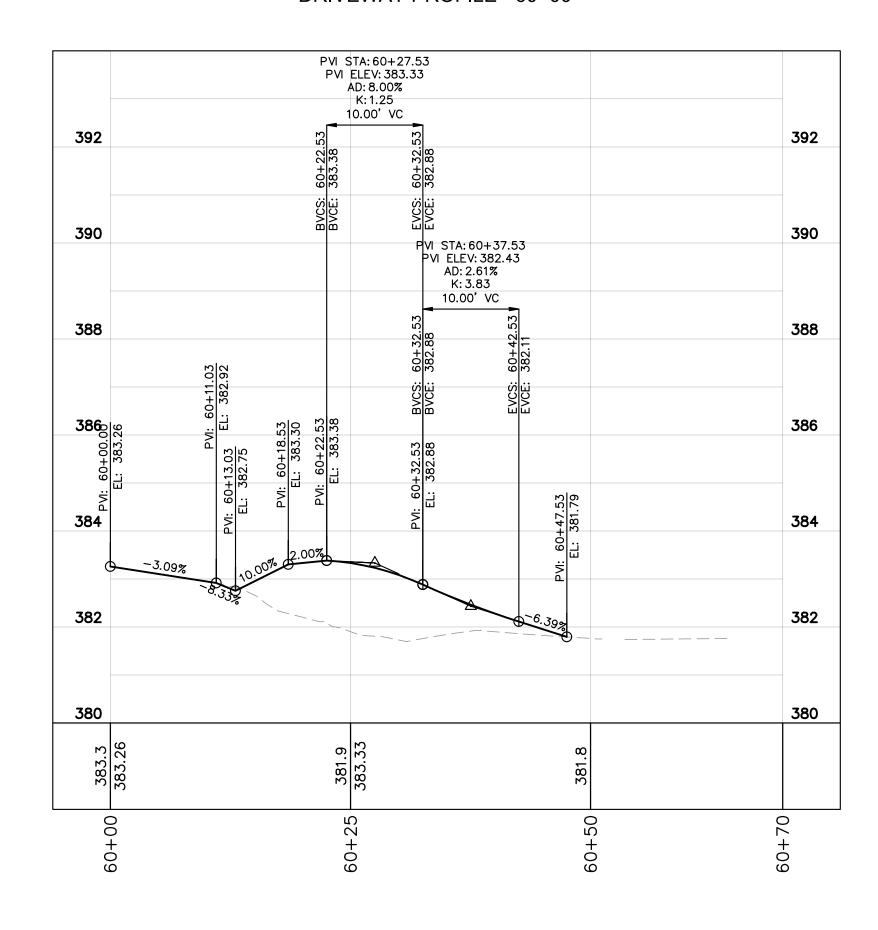
CURB RETURN PROFILES AND GRADING PROJECT NO. 5G25-060-042 FUND NO. 300-C30050 DESIGNED BY: DD SHEET BY APPROVED DATE SEE GRAPHIC DRAFTED BY: TC 4A(2) SCALE CHECKED BY: BB

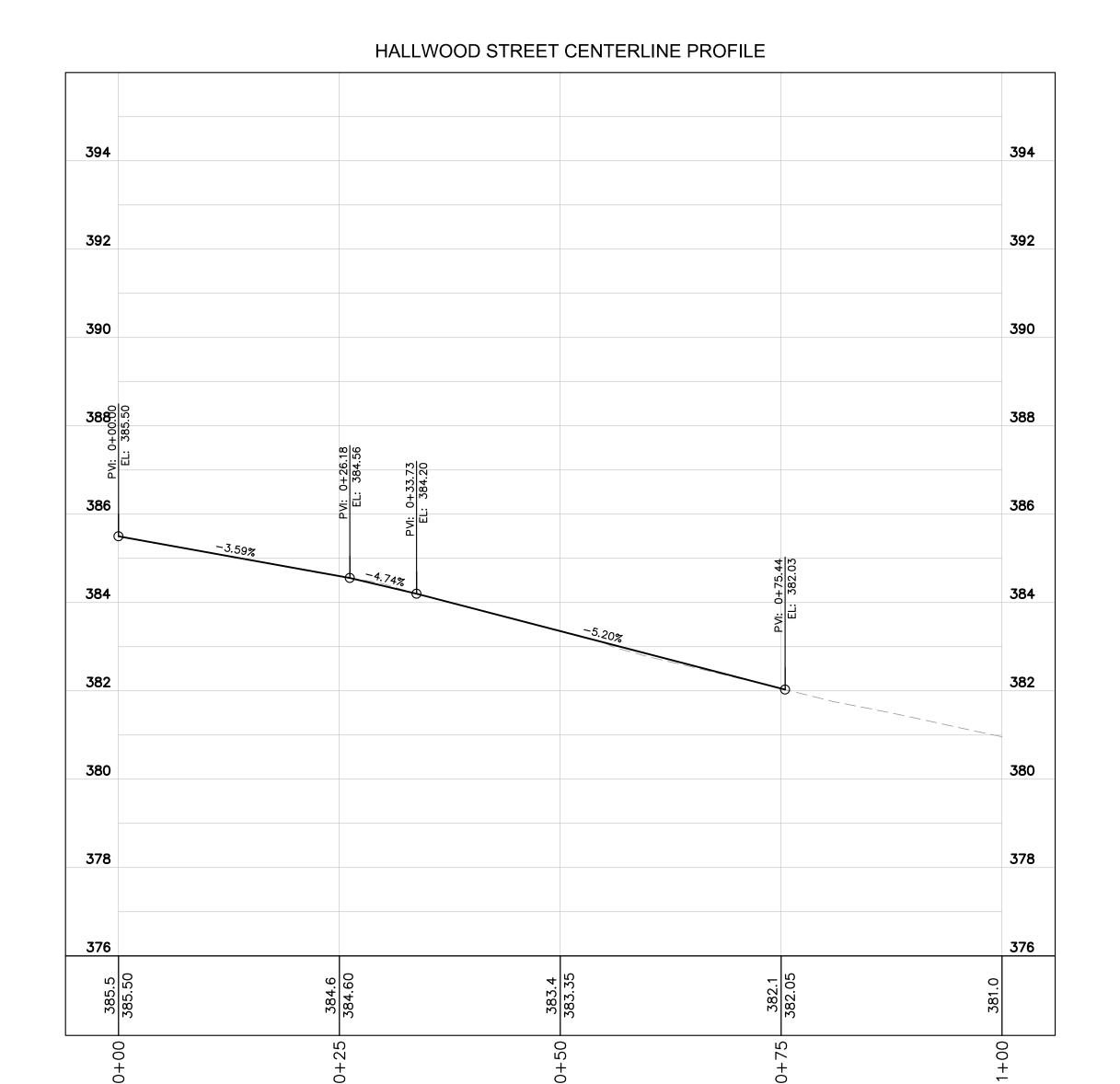
2017 KIMLEY-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400, Reston, VA 20191 s 🔠 Phone: 703-674-1300

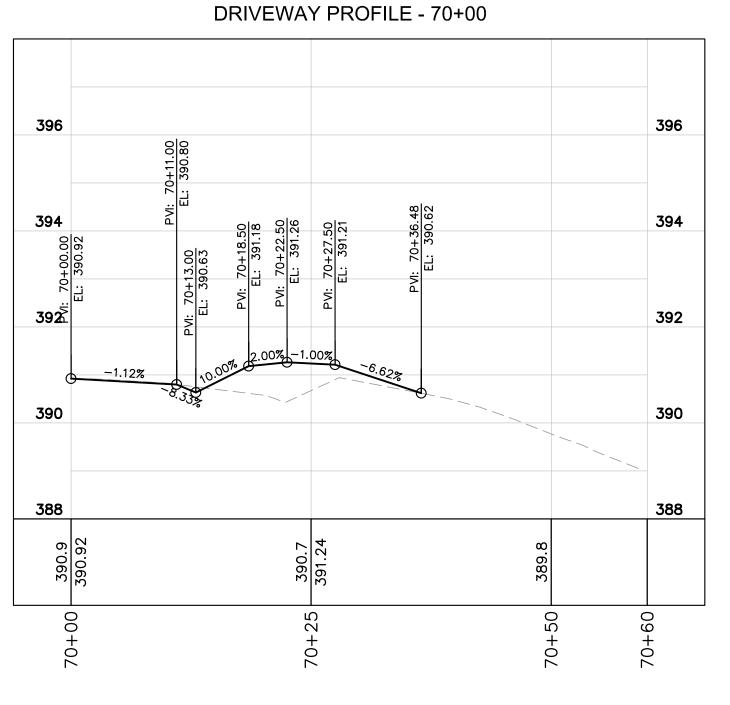
SIDE STREET AND ENTRANCE PROFILES

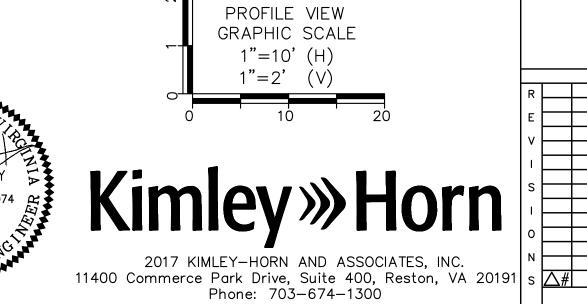


DRIVEWAY PROFILE - 60+00







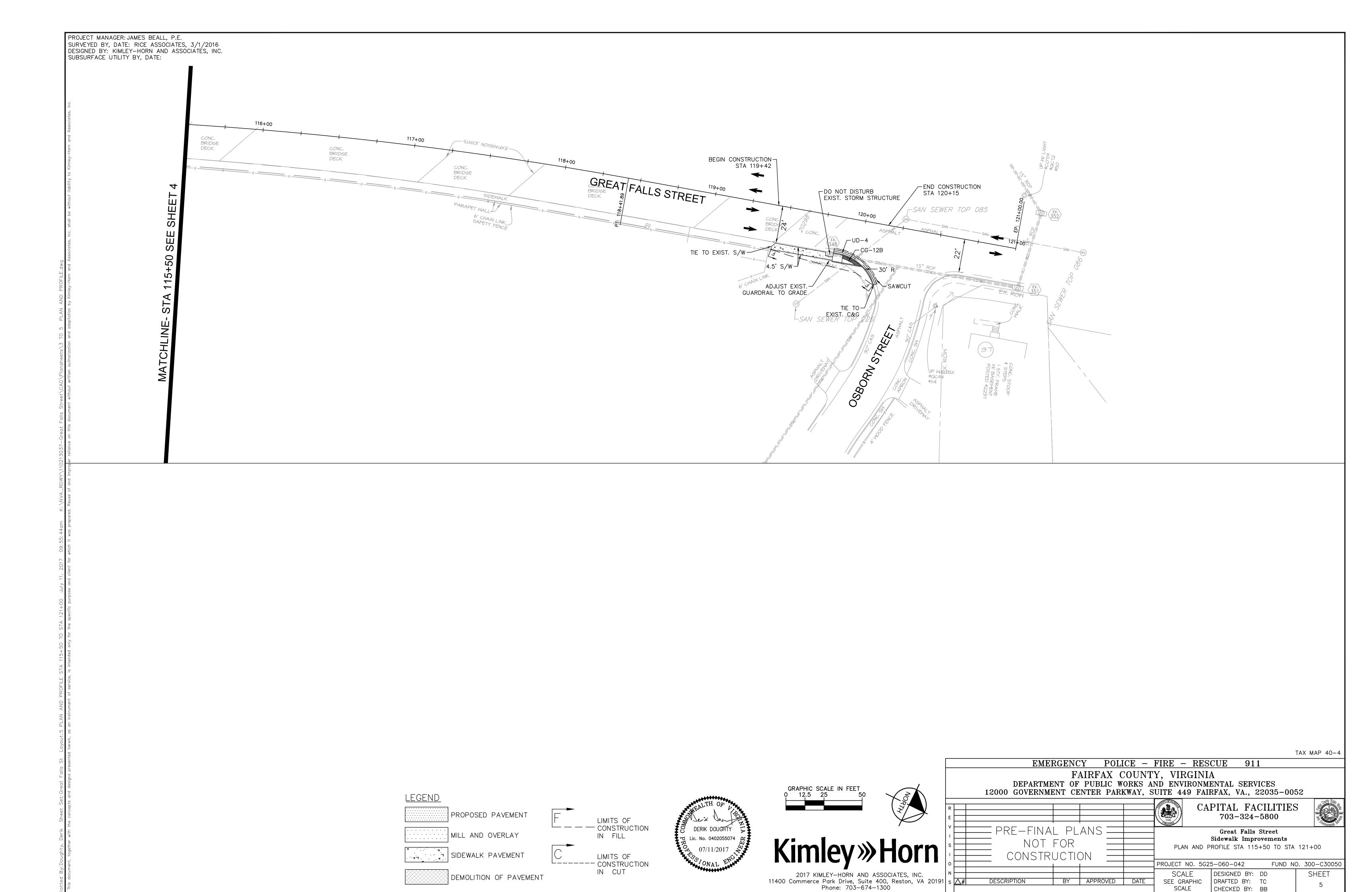


EMERGENCY POLICE - FIRE - RESCUE 911 FAIRFAX COUNTY, VIRGINIA DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES 12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052 CAPITAL FACILITIES = PRE-FINAL PLANS =

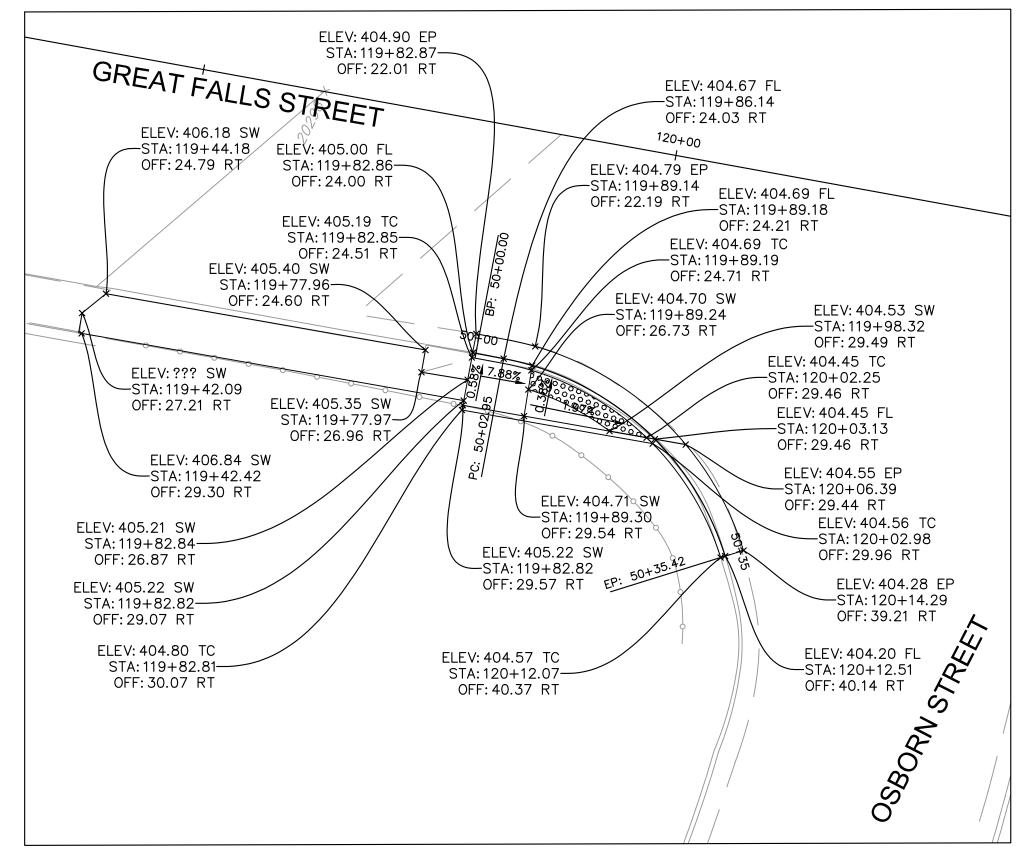
703-324-5800 Great Falls Street Sidewalk Improvements SIDE STREET AND ENTRANCE PROFILES

TAX MAP 40-4

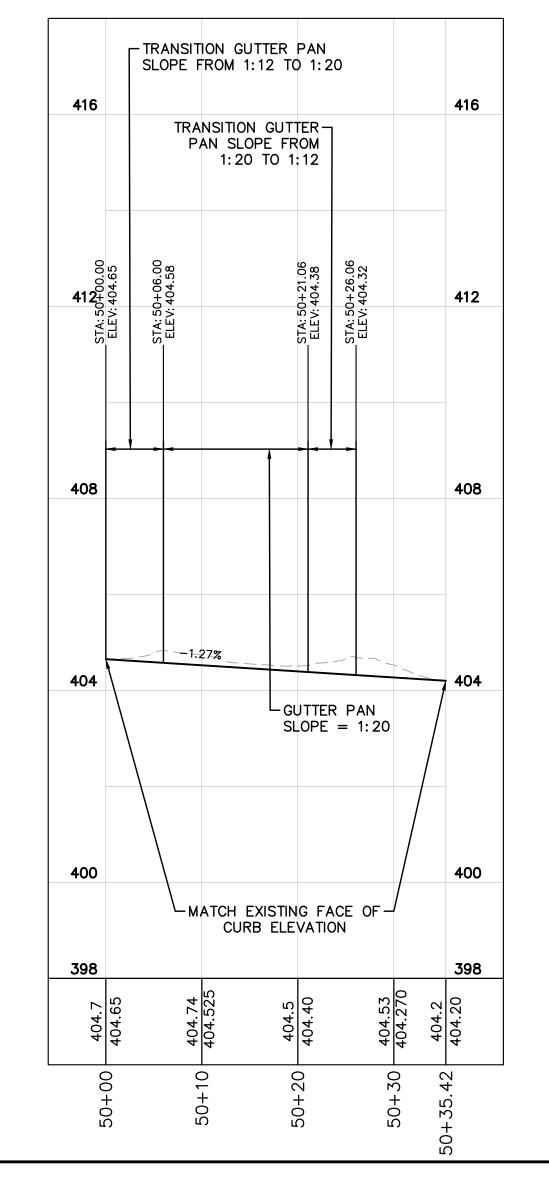
PROJECT NO. 5G25-060-042 FUND NO. 300-C30050 DESIGNED BY: DD SHEET SEE GRAPHIC DRAFTED BY: TC 4B SCALE CHECKED BY: BB

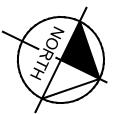


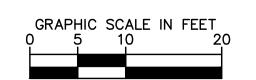
CURB RETURN PROFILES AND GRADING

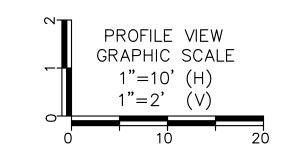


SOUTH CORNER OSBORNE AVENUE CURB RETURN PROFILE





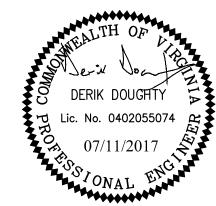






PROP. GRADE @ PROP. GRADE @ E.P./GUTTER PAN

DESCRIPTION



DESIGNED BY: DD

DRAFTED BY: TC

CHECKED BY: BB

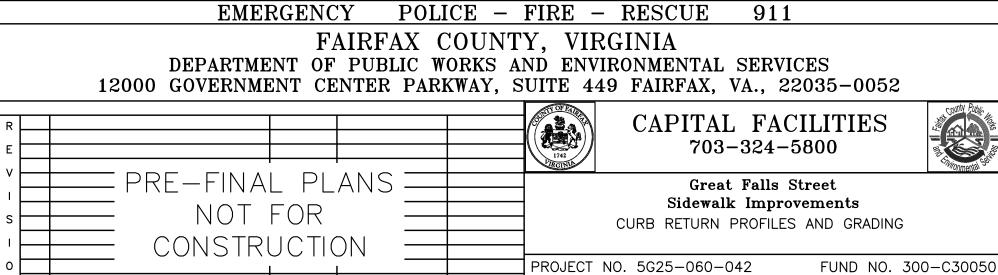
SEE GRAPHIC

SCALE

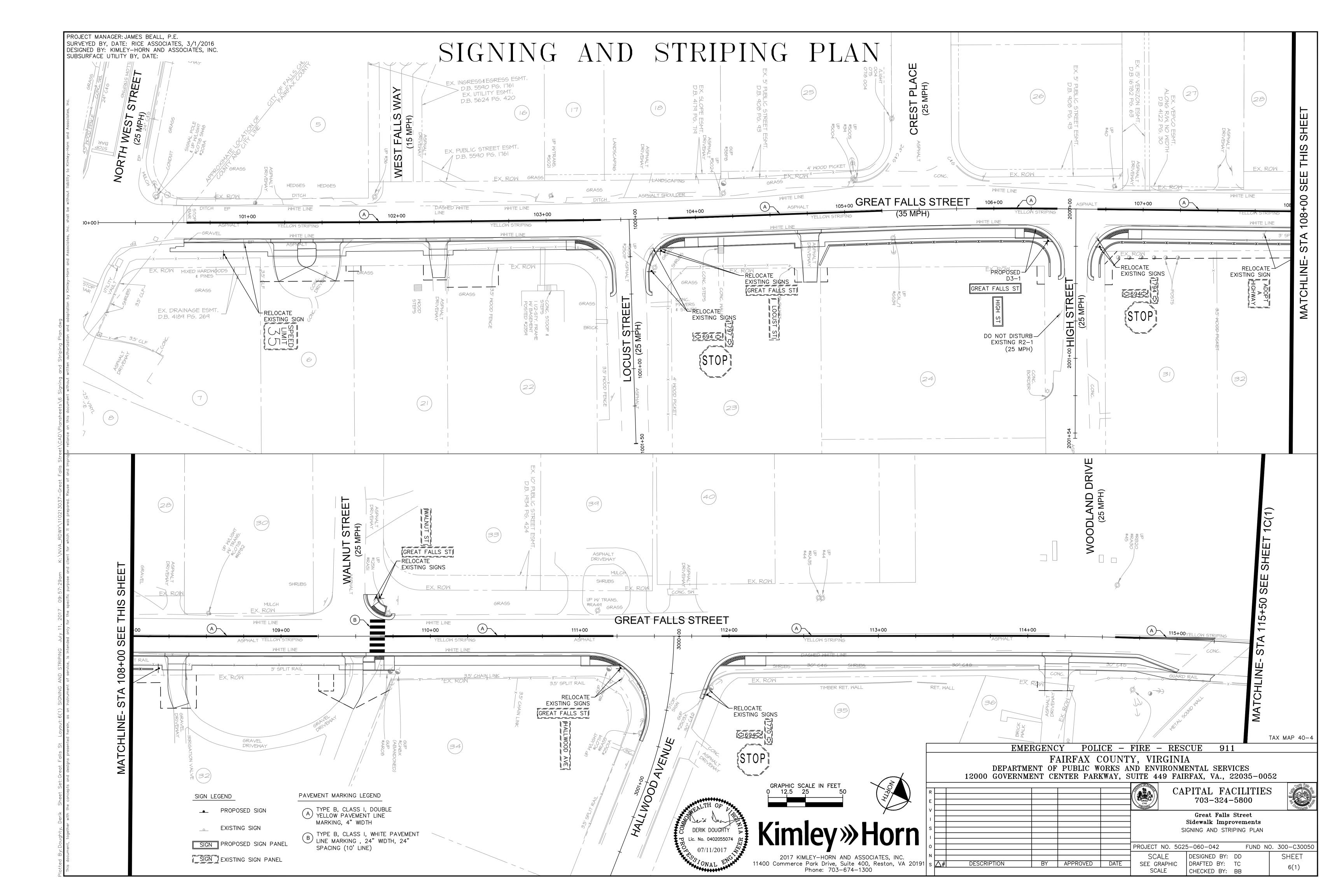
TAX MAP 40-4

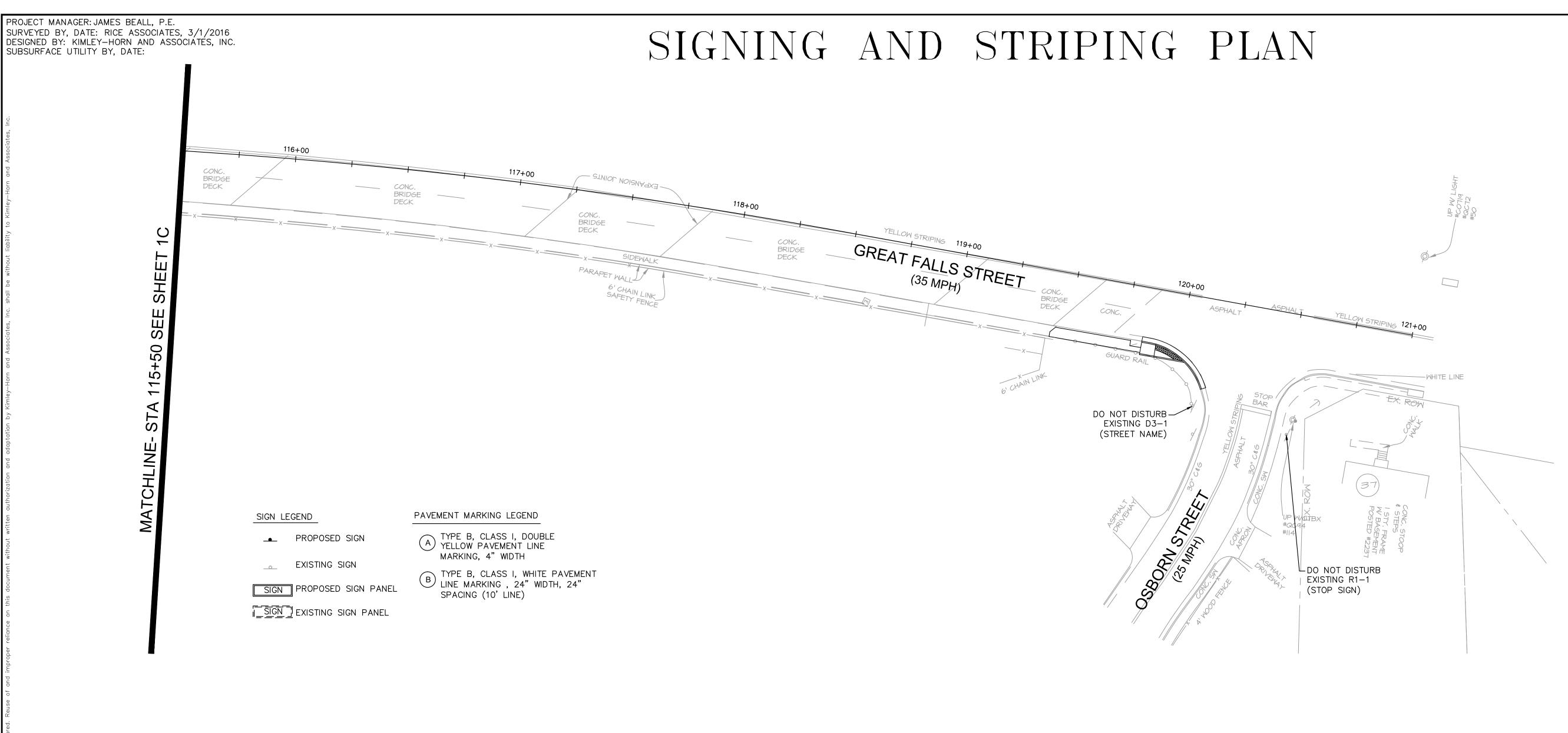
SHEET

5A



BY APPROVED DATE





SIGNAGE GENERAL NOTES:

1.All signs shall be in accordance with the most current edition of each of the following manuals or the most recent revision thereof:

A. Manual on Uniform Traffic Control Devices (MUTCD) B. The Virginia Supplement to the Manual on Uniform Traffic Control Devices C. The Virginia Department of Transportation Road and Bridge Specifications

D. The Virginia Department of Transportation Road and Bridge Standards

2. All signs as necessary or directed by Fairfax County shall be installed in accordance with St'd STP-1 with breakaway metal post. All signs, as necessary or directed by Fairfax County, designated to be relocated, shall be reinstalled in such a manner that the relocated sign complies with St'd STP-1

3. The Contractor shall stake all the proposed sign locations and relocations for review and approval by Fairfax County prior to any installation or relocation.

4. Proposed sign locations are approximate and shall be modified in the field to avoid conflicts with underground utilities or other obstructions and to comply with standards referenced in Signage General Note 1. Contractor is responsible for any disruptions in utility service due to digging for signage structure. If proposed signage will impact utility service, it shall be relocated with the approval of Fairfax County at no additional cost.

5. Contractor must provide shop drawings for all nonstandard signs to be approved by Fairfax County.

Contractor shall design signs in accordance with the current VDOT Road and Bridge Standards and any subsequent revisions.

6. Unless otherwise indicated on plans, all breakaway sign structures shall be located within 25 feet of the sign's current field location or as directed by Fairfax County.

7. The Contractor is to coordinate with Fairfax County for the handling of all salvaged materials (sign panels, framing members and miscellaneous hardware).

PAVEMENT MARKING GENERAL NOTES::

1.All pavement markings shall be in accordance with the most current edition of each of the following manuals or the most recent revision thereof:

A. Manual on Uniform Traffic Control Devices (MUTCD)

B. The Virginia Supplement to the Manual on Uniform Traffic Control Devices C. The Virginia Department of Transportation Road and Bridge Specifications

D. The Virginia Department of Transportation Road and Bridge Standards

2. All pavement markings shall be Type B, Class I, unless otherwise noted in the Pavement Marking legend and in accordance with VDOT Road and Bridge Standards and VDOT Road and Bridge Specifications.

3. Any existing pavement markings that conflict with the proposed pavement markings shall be completely

eradicated in accordance with VDOT Road and Bridge Standards and VDOT Road and Bridge Specifications. 4. Limits of proposed pavement markings and raised markers are approximate and shall be modified in the

field to ensure that proposed pavement markings and raised markers continue until existing pavement markings can be matched.

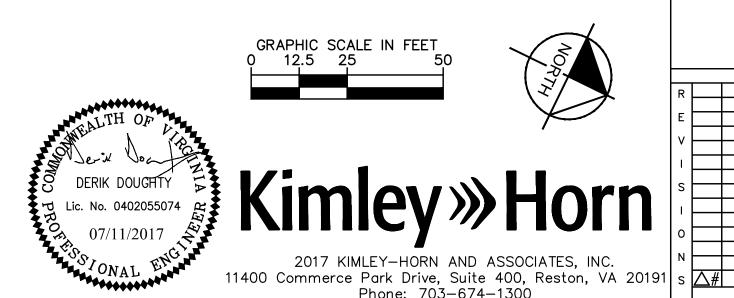
5. Elongated arrows shall be in accordance with MUTCD and VDOT Road and Bridge Specifications.

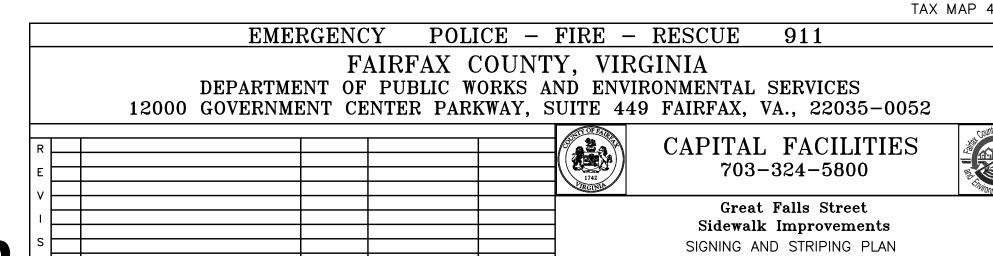
6. Any changes to the pavement marking plan as shown shall be approved by Fairfax County.

TAX MAP 40-4

SHEET

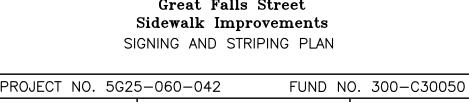
6(2)





BY APPROVED DATE

DESCRIPTION



DESIGNED BY: DD

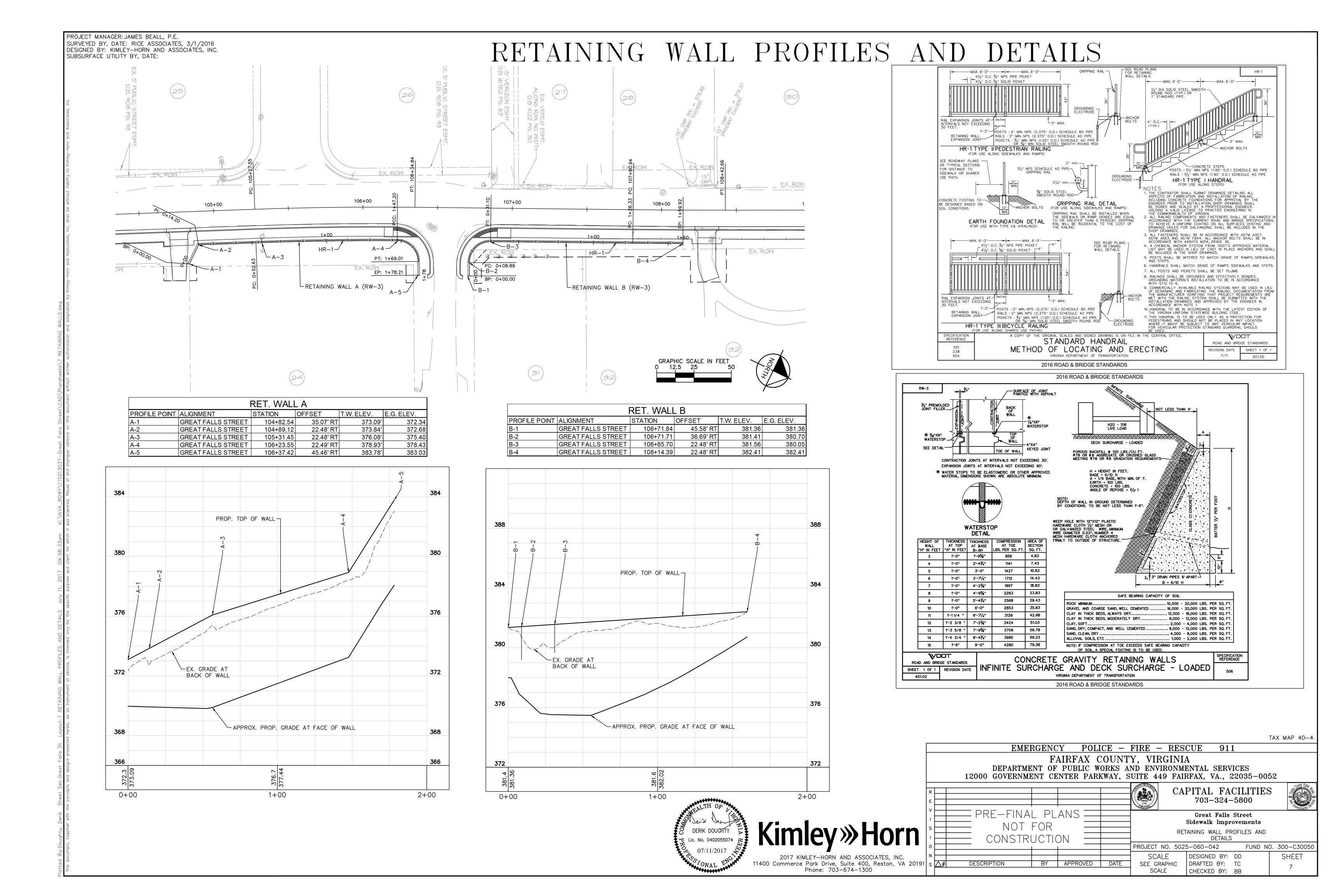
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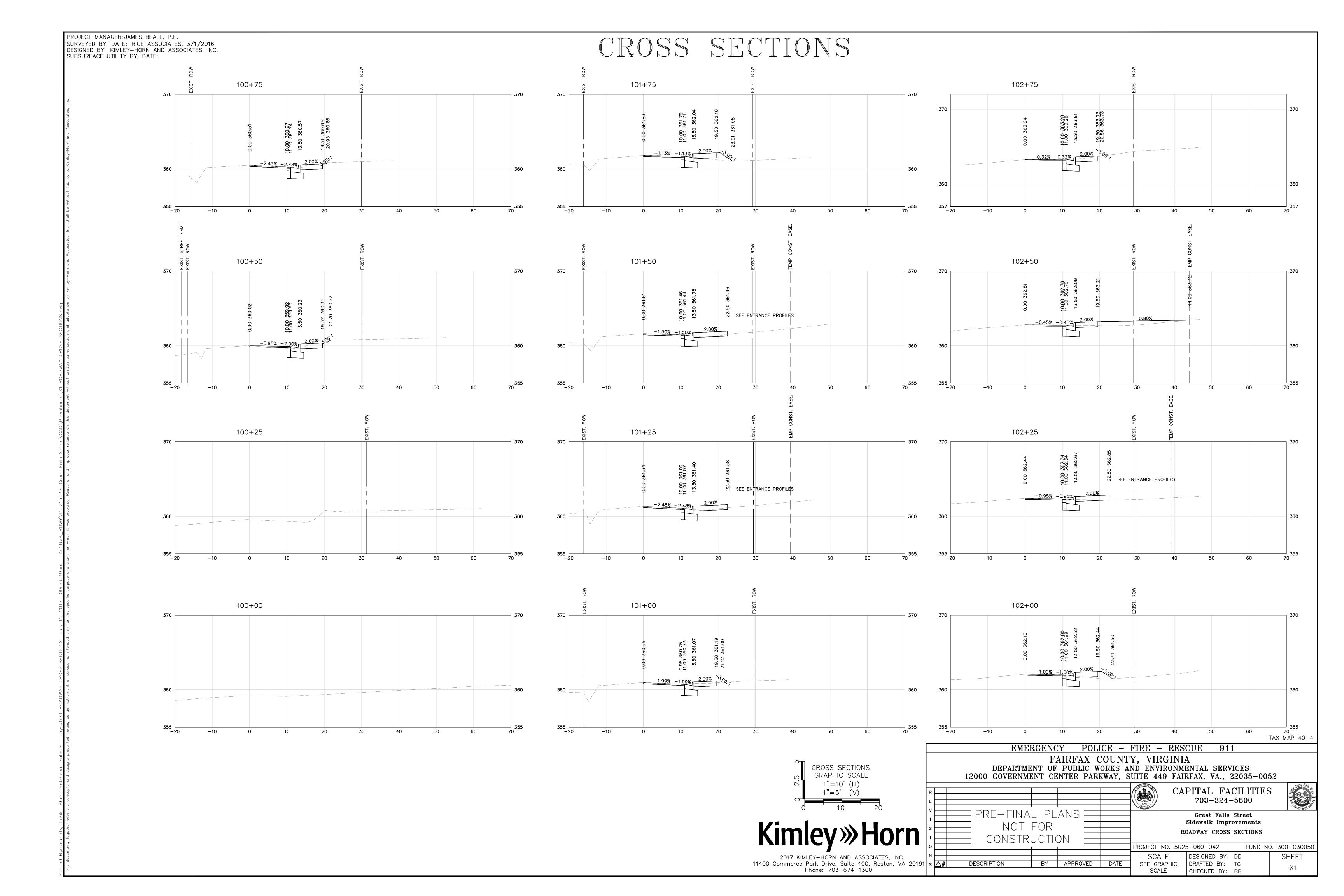
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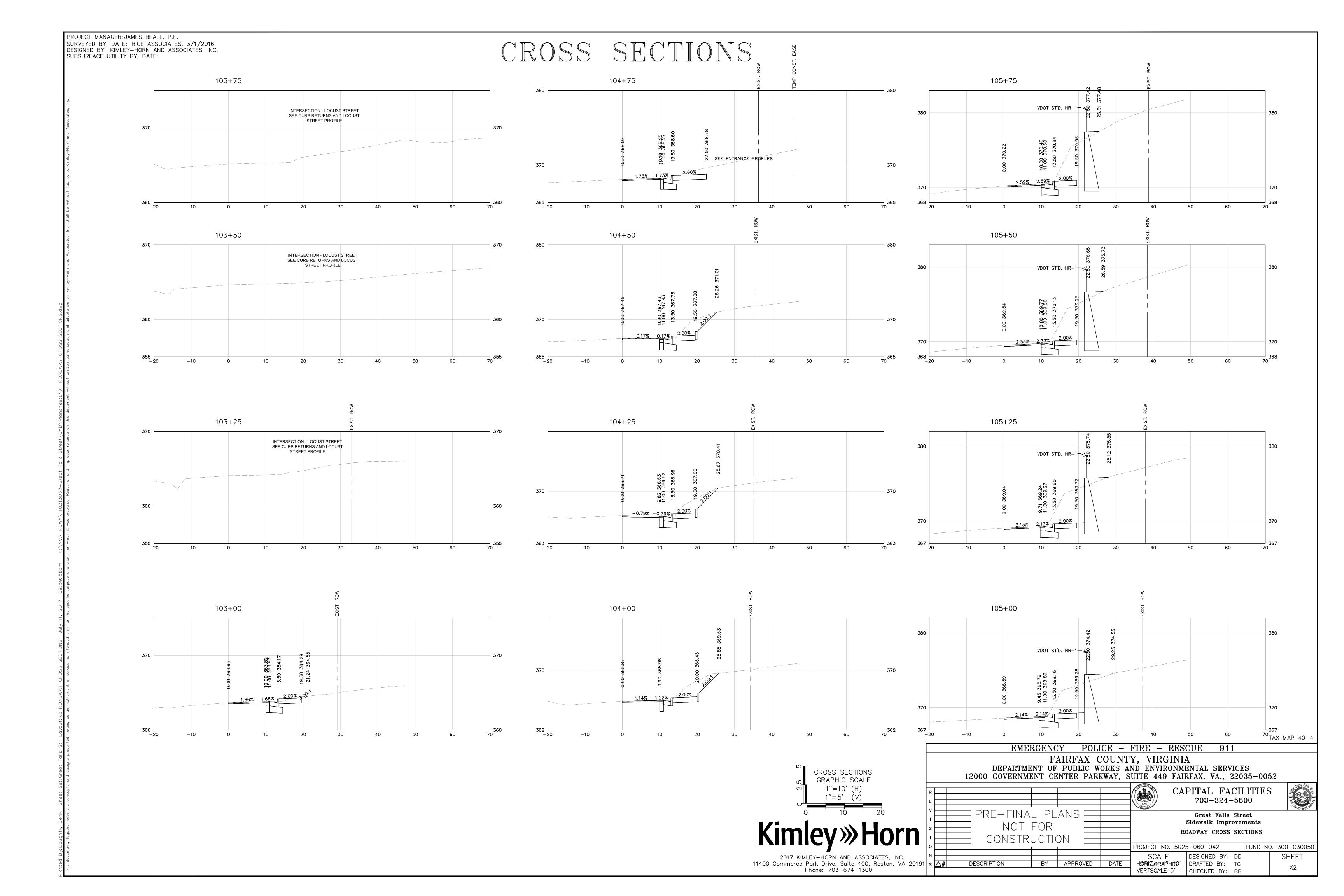
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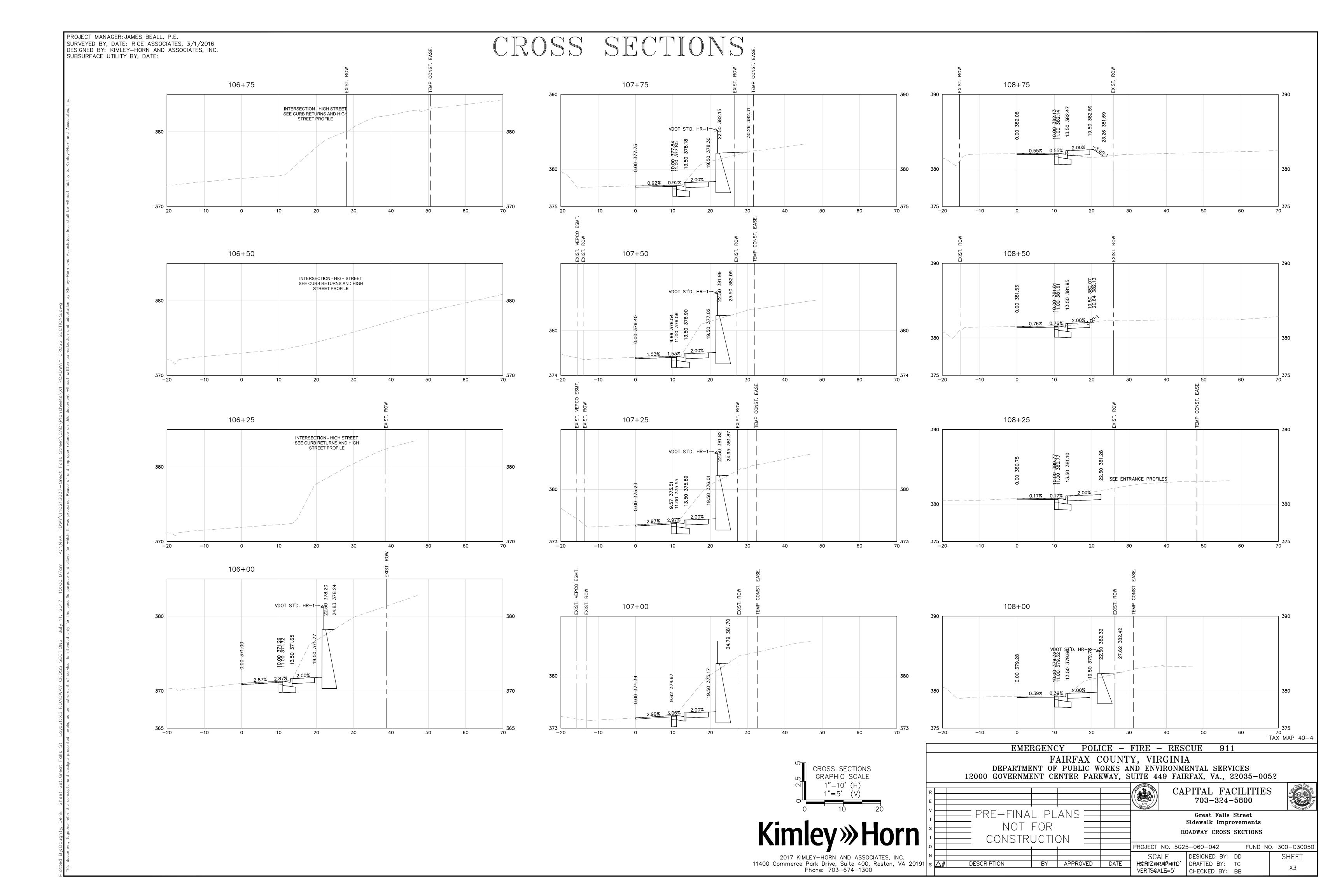
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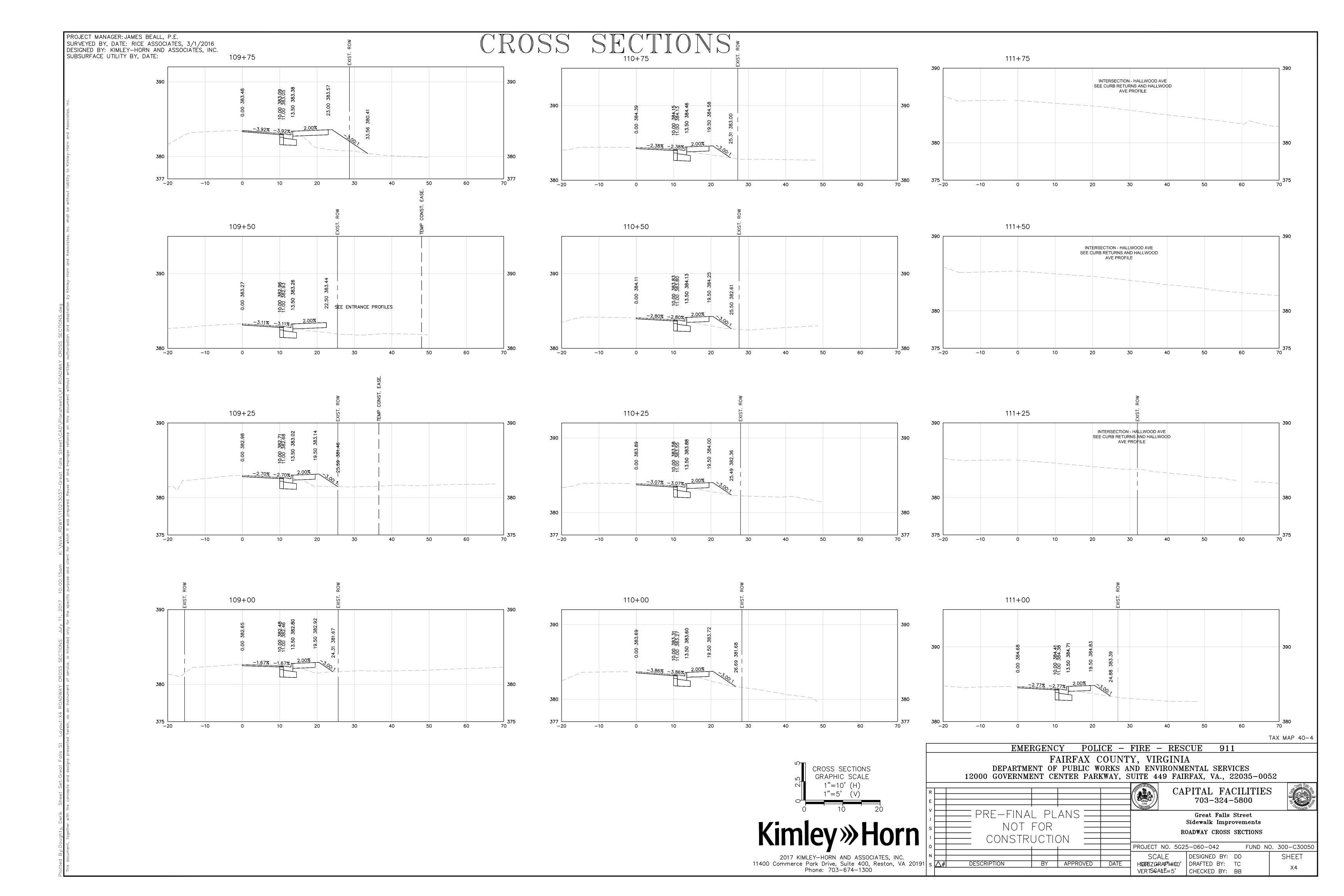
SEE GRAPHIC

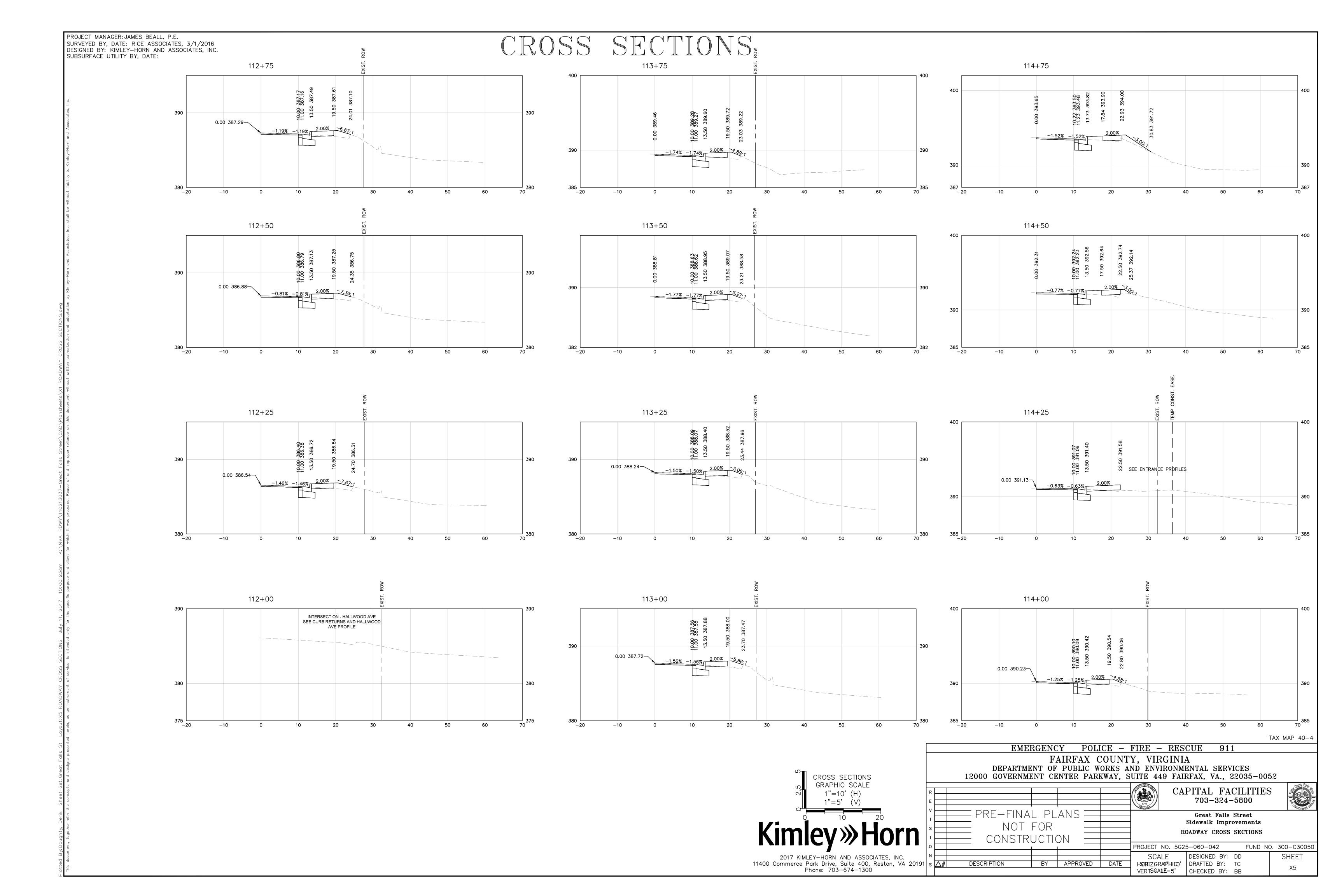


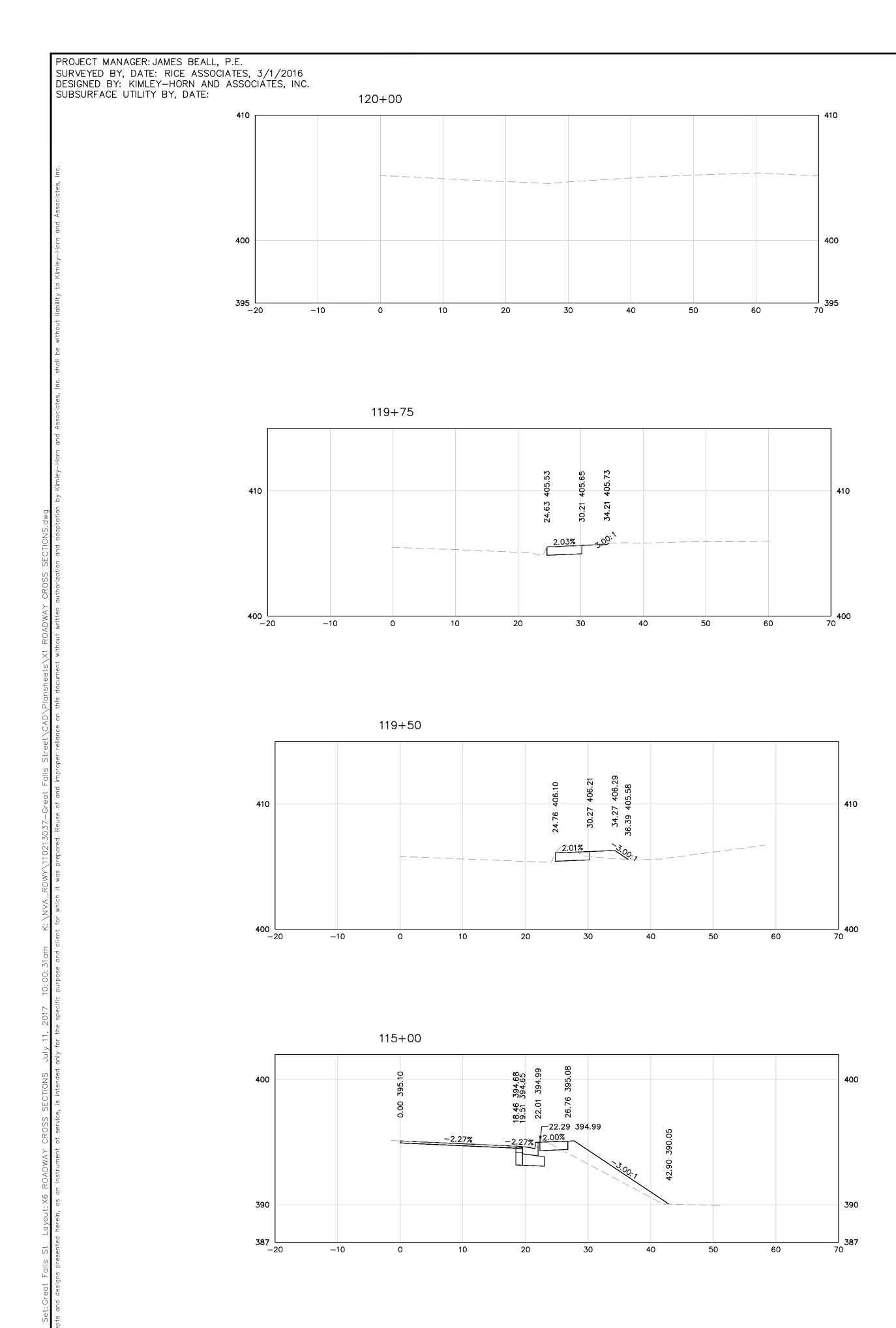


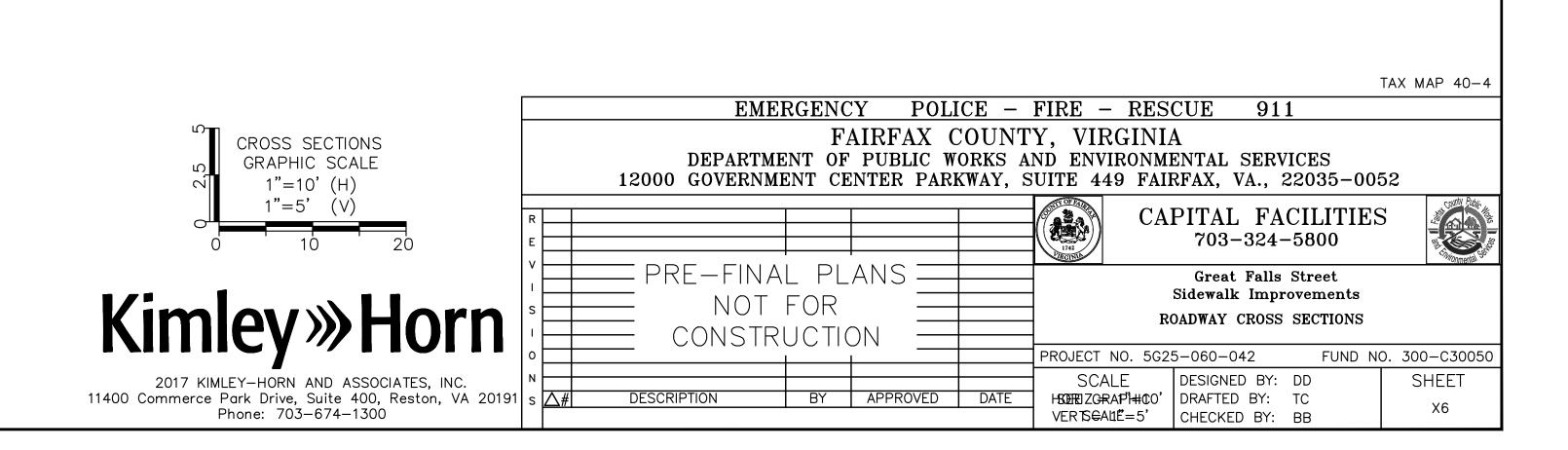












CROSS SECTIONS