

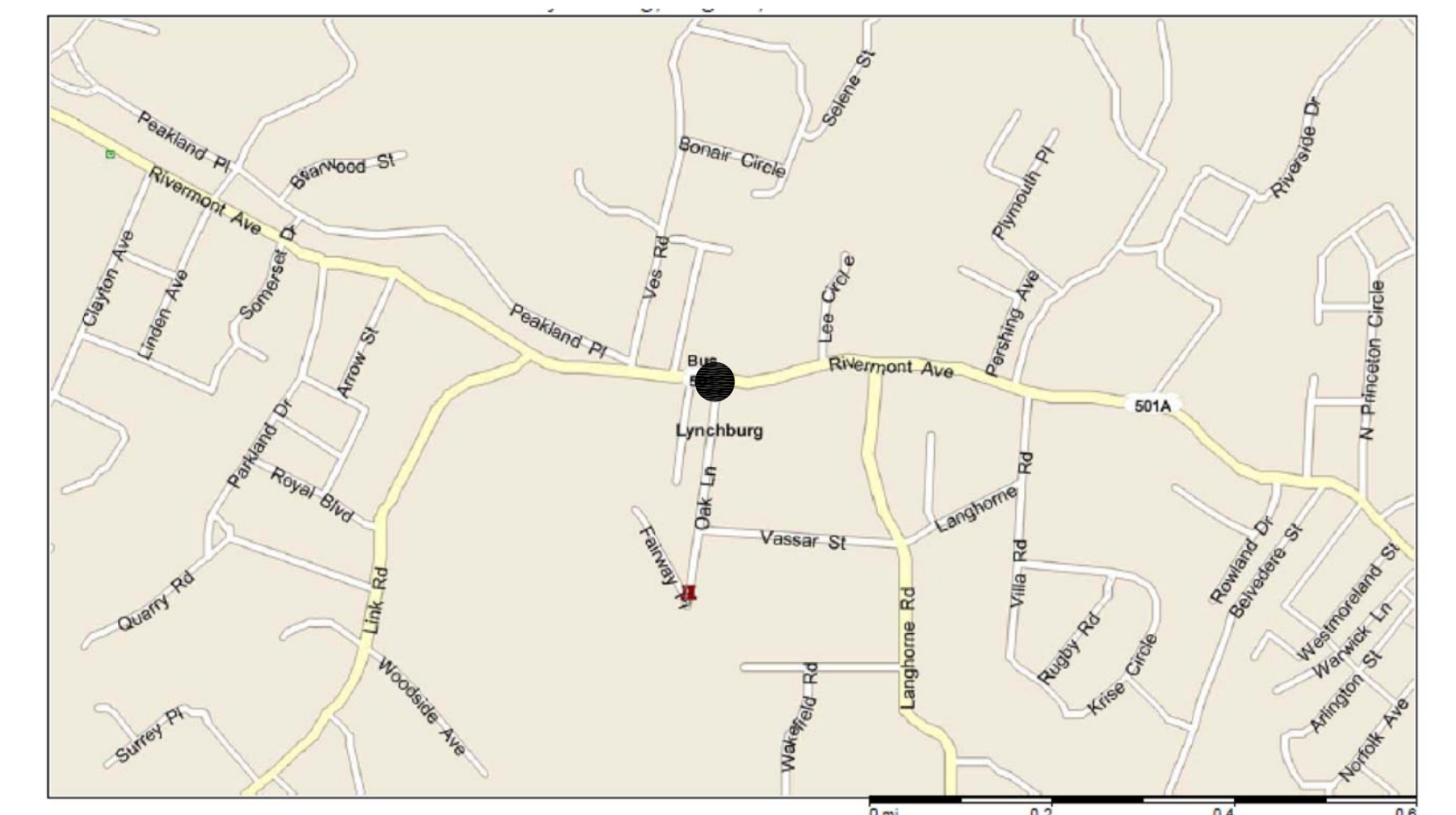
INDEX OF SHEETS

SHEET NUMBER	TITLE
1	COVER SHEET
2	GENERAL NOTES AND QUANTITIES
3	INTERSECTION PLAN SHEET

TRAFFIC SIGNALIZATION PLAN FOR THE INTERSECTION OF OAK LANE AT RIVERMONT AVENUE

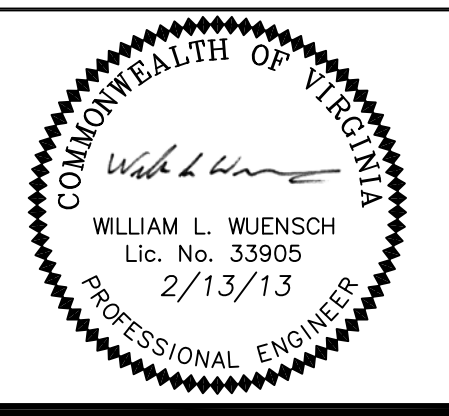
CITY OF LYNCHBURG, VIRGINIA

VICINITY MAP



NTS

NO.	DESCRIPTION	DATE	APP.



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"ENGINEERING & PLANNING RESOURCES"
Civil • Stormwater • Traffic • Transportation
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22911 • (804) 647-7701

JOB NO.:	12-040
DATE:	1-28-2013
SCALE:	AS SHOWN
DRAWN BY:	LLW
DESIGNED BY:	WLW
CHECKED BY:	WLW

SIGNAL DESIGN PLANS
FOR OAK LANE AT RIVERMONT AVENUE
LYNCHBURG, VIRGINIA
COVER

SHEET NO.	S1
SHEET	1 OF 3

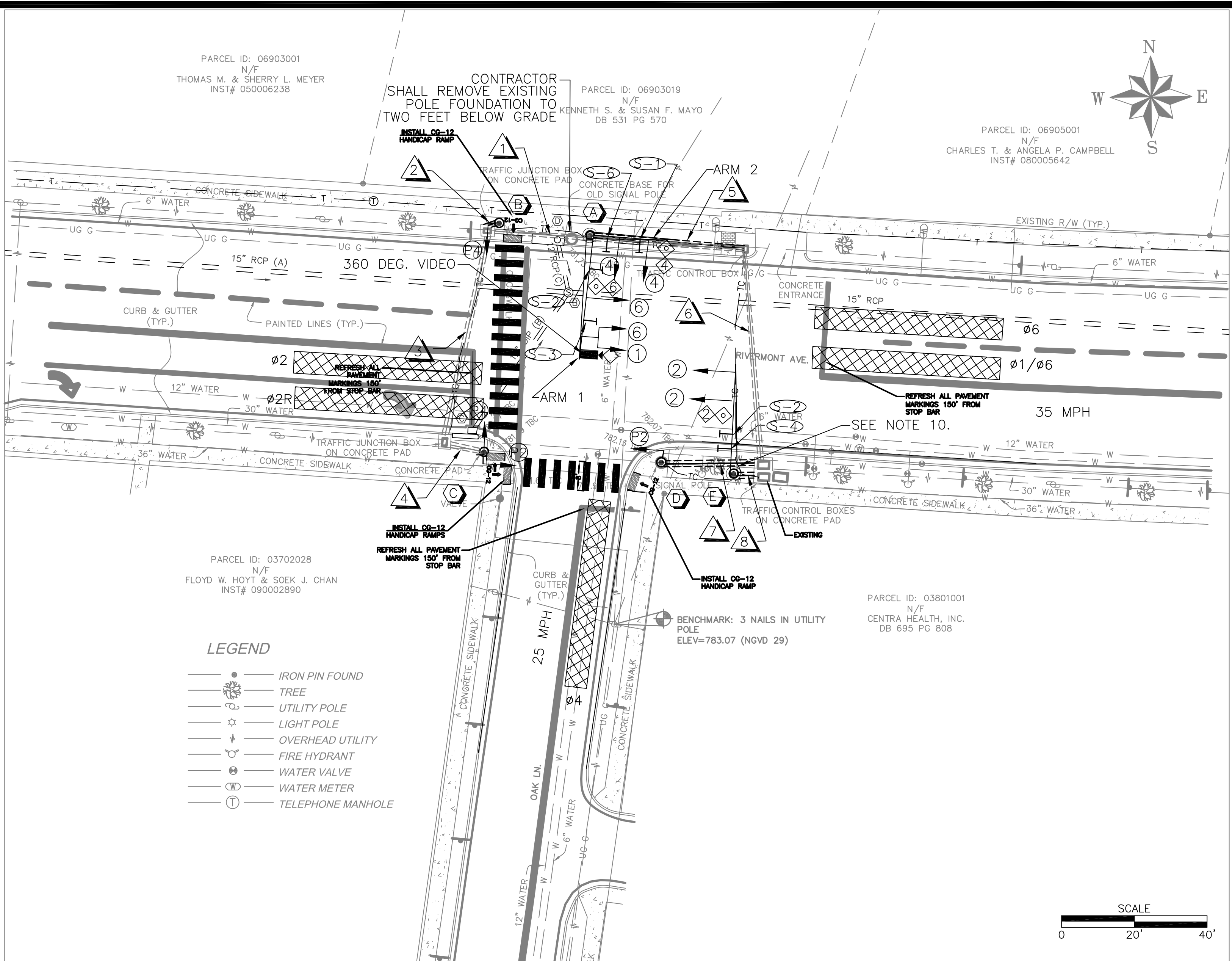
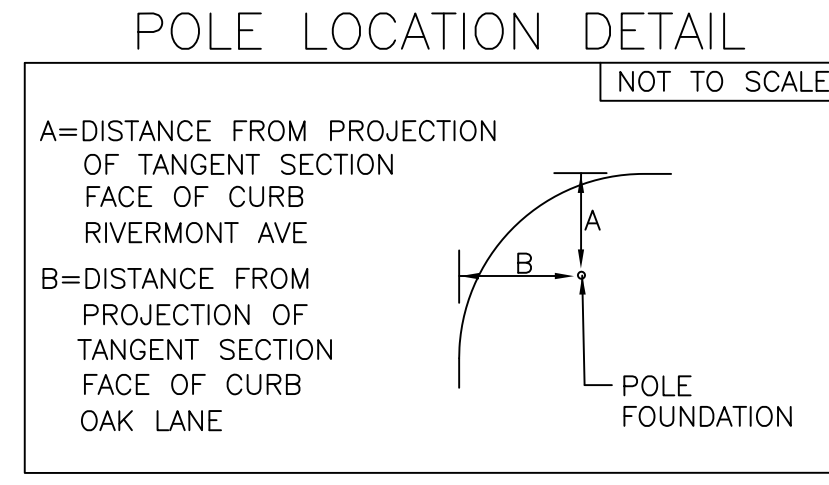
SIGNAL LEGEND	
	CONDUIT
	NOTES
	SIGNAL POLE IDENTIFIER
	PROPOSED MAST ARM MOUNTED SIGNS
	PROPOSED CONTROLLER CABINET
	EXISTING JUNCTION BOX
	PROPOSED CONDUIT
	PROPOSED SIGNAL HEAD
	PROPOSED MAST ARM AND FOUNDATION
	PEDESTRIAN SIGNAL HEAD
	PROPOSED EMERGENCY VEHICLE PRE-EMPTION DEVICE
	PROPOSED VIDEO DETECTION CAMERA
	DETECTION ZONE

CONSTRUCTION NOTES:

- MULTIPLE CONFLICTS BETWEEN PROPOSED CONDUITS AND EXISTING UTILITIES MAY EXIST. CONTACT "MISS UTILITY" PRIOR TO EXCAVATION.
- TOP OF POLE FOUNDATION ELEVATION SHALL BE FLUSH WITH THE ADJACENT SIDEWALK.
- TRAFFIC SIGNAL HEADS, VISORS, LUMINAIRES AND HOUSINGS SHALL BE SEMI-GLOSS BLACK. BACKPLATES AND INSIDE OF VISORS SHALL BE SEMI-GLOSS BLACK. ALL SIGNAL HEADS SHALL BE POLYCARBONATE & HAVE POLYCARBONATE BACKPLATES. ALL POLES SHALL BE SEMI-GLOSS BLACK.
- THE (S-5) SIGN SHALL BE POLE MOUNTED ADJACENT TO PEDESTRIAN DETECTOR. THE CONTRACTOR SHALL COORDINATE WITH THE CITY'S TRAFFIC STAFF FOR ORIENTATION OF THE SIGN ON THE POLE.
- PEDESTRIAN POLES SHALL INCLUDE VDOT STANDARD PA-2 WITH SP-4, MODIFIED FOR COUNTDOWN HEADS.
- REFRESH ALL PAVEMENT MARKINGS 150' FROM INTERSECTION.
- CAMERA LOCATION FOR VIDEO DETECTION SHALL BE DECIDED AND DRILLED IN THE FIELD.
- PEDESTRIAN POLE FOUNDATION AT POLES (C) AND EXISTING POLE FOUNDATION AT (D) SHALL BE REUSED. CONTRACTOR SHALL ORDER NEW POLE BASE/POLE ASSEMBLY TO BE CONSISTANT WITH THE EXISTING BOLT PATTERN IN THE EXISTING FOUNDATIONS.
- EXISTING CONDUITS AND JBOXES SHALL BE UTILIZED EXCEPT WHERE NEW CONDUIT IS SHOWN. EXISTING CONDUCTORS SHALL BE REMOVED AND REPLACED WITH NEW CONDUCTORS PER THIS PLAN.
- POLE FOUNDATION CONFLICTS WITH EXISTING CONDUIT RUNS. CONTRACTOR SHALL SPLICE INTO EXISTING CONDUITS AND REROUTE TO AROUND FOUNDATION.
- EXISTING POWER SERVICE DROP TO BE CHANGED TO SE-3, METER TO BE MOUNTED ON MAST ARM POLE.
- THE CITY WILL PROVIDE NEW SIGNAL TIMINGS TO THE CONTRACTOR.
- EXISTING SIGNAL POLE IN SOUTHEAST CORNER SHALL BE REMOVED.
- THE PROPOSED FOUNDATION FOR POLE SHALL NOT COME INTO CONTACT WITH EXISTING WATER LINES ON EITHER SIDE OF IT. DUE TO THE CLEARANCE BETWEEN THE WATER LINES IT MIGHT BE NECESSARY TO USE A 36" DIAMETER FOUNDATION. THIS SHOULD BE DETERMINED IN THE FIELD PRIOR TO FOUNDATION DESIGN.
- POWER SERVICE DROP CAN BE VIA EXISTING VERIZON POLE THAT IS ADJACENT TO THE EXISTING SIGNAL POLE IN THE SOUTHEAST CORNER. CONTRACTOR SHALL RUN CONDUIT AND WEATHERHEAD UP THE VERIZON POLE FOR USE BY AEP.
- THE ELEVATIONS OF EXISTING OVERHEAD LINES ARE APPROXIMATELY: 19.4' AT PROPOSED POLE (A) AND 19.2' AT PROPOSED POLE (E).
- CONTRACTOR SHALL ADD SYSTEM GROUNDING AT EACH PULL BOX. THIS SHALL INCLUDE GROUND RODS AND #8 CONDUCTOR BOND WIRE FROM GROUND ROD TO GROUND ROD.

NO.	POLE SCHEDULE										POLE LOCATION					
	TYPE	POLE HEIGHT	MAST ARM LENGTH	SIGNAL MOUNTING			CAMERA DISTANCE FROM POLE	EVP DISTANCE FROM POLE	TRAFFIC SIGN MOUNTING			A*	B*			
(A)	MP-1 ARM 1	20'	35'	17'	29'	-	-	33'	-	13.5'	6'	23.5'	-	-	3.4'	-
	ARM 2		25'	8'	16.5'	-	-	-	-	21.5'	5'	13.0'	-	-	-	-
(B)	PA-2	10'	N/A	-	-	-	-	-	-	-	-	-	-	-	5.2'	-
(C)	PA-2	10'	N/A	-	-	-	-	-	-	-	-	-	-	-	4.6'	10'
(D)	PA-2	10'	N/A	-	-	-	-	-	-	-	-	-	-	-	4.8'	8.8'
(E)	MP-1	20'	30'	19.5'	28'	-	-	-	-	15.5'	7.0'	11'	-	-	8.3'	28.8'

(MP-1) = VDOT STANDARD MAST ARM POLE
* SEE POLE LOCATION DETAIL

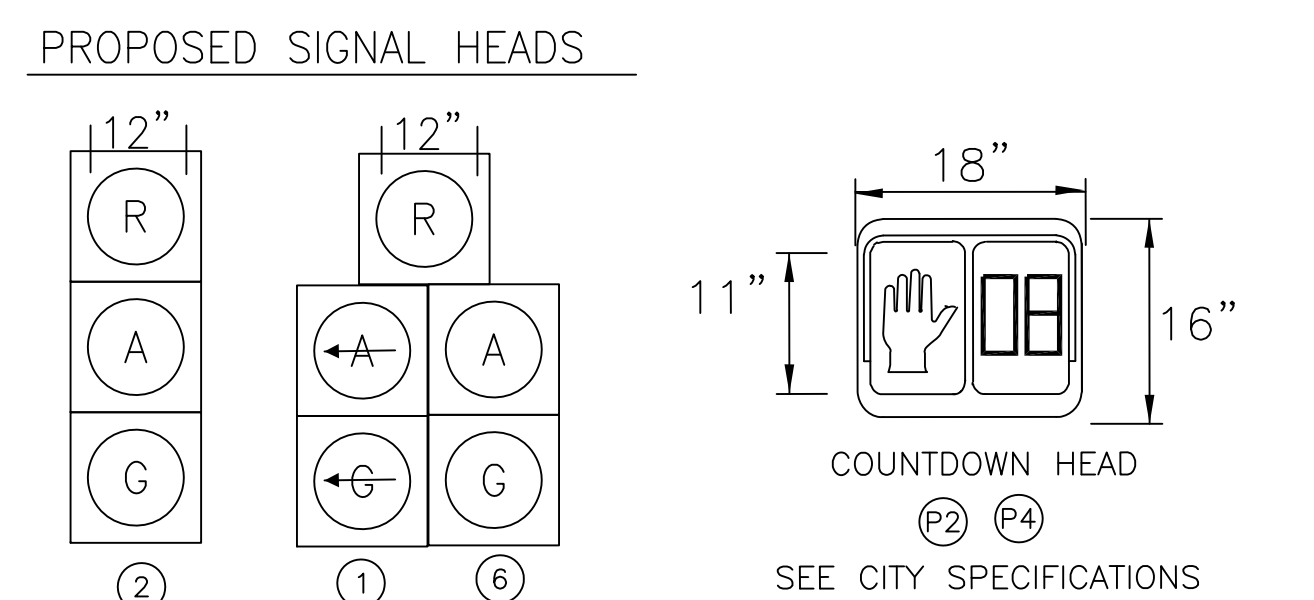
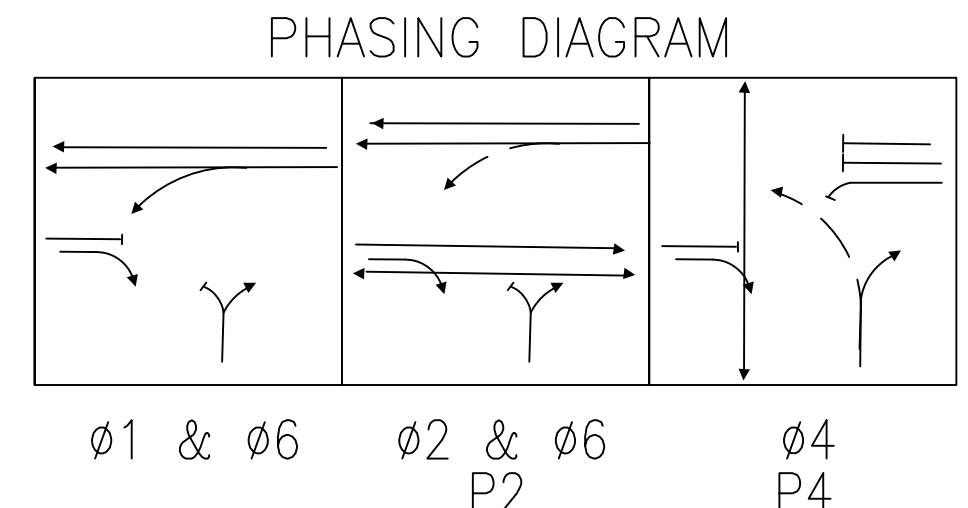
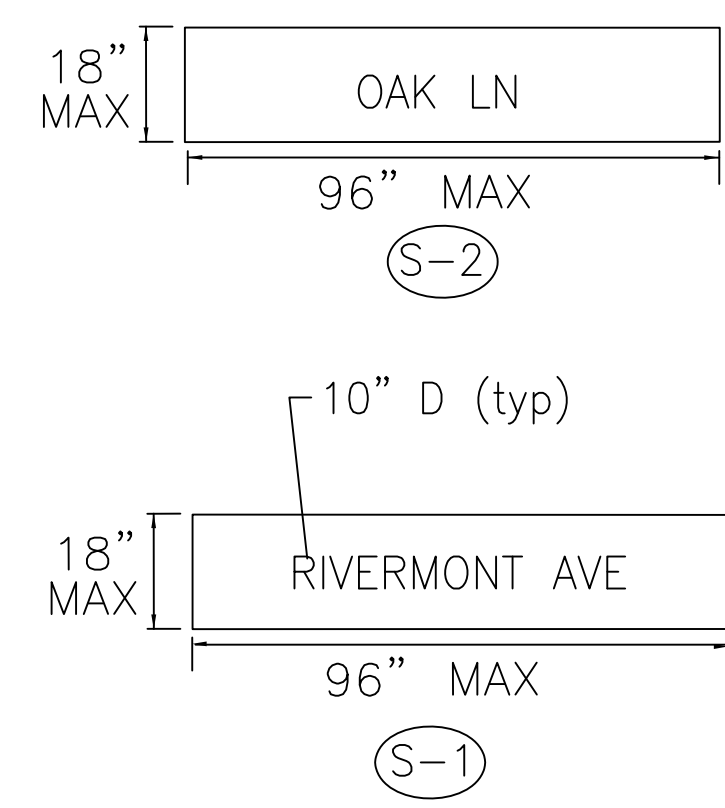
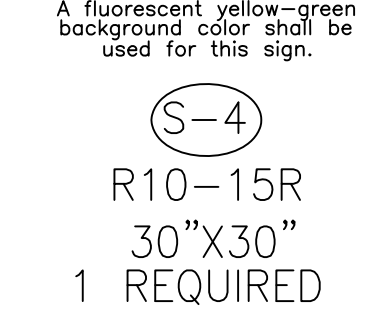
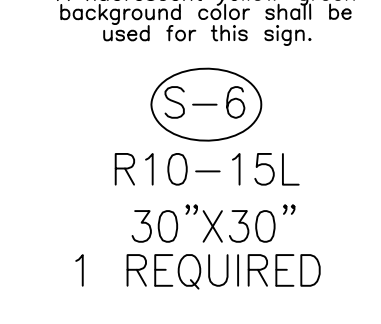
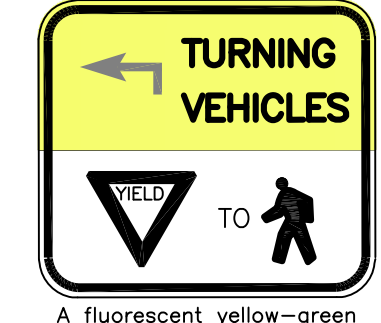
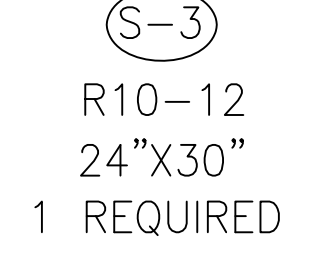
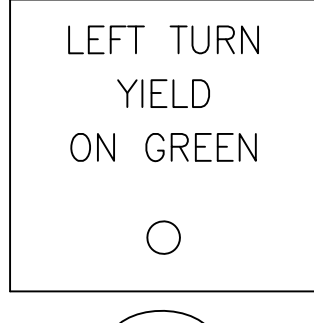
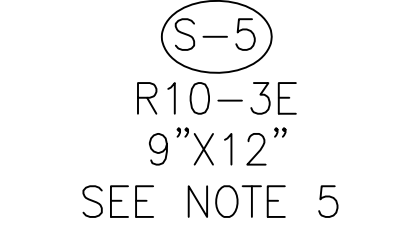
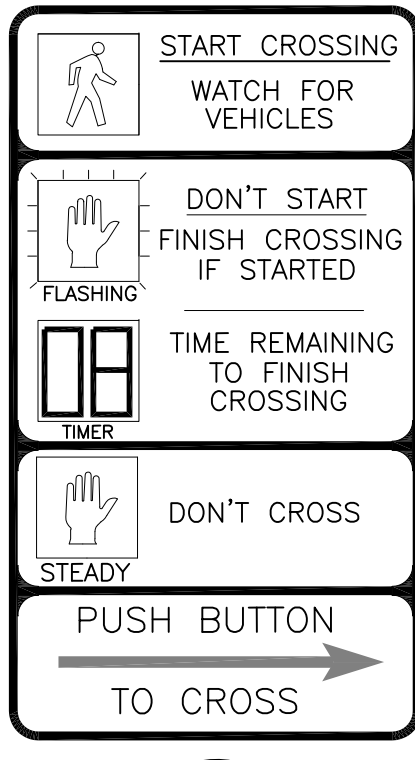


DETECTOR NOTES:
Ø2R SHALL HAVE A 10s DELAY

CONDUCTOR SCHEDULE

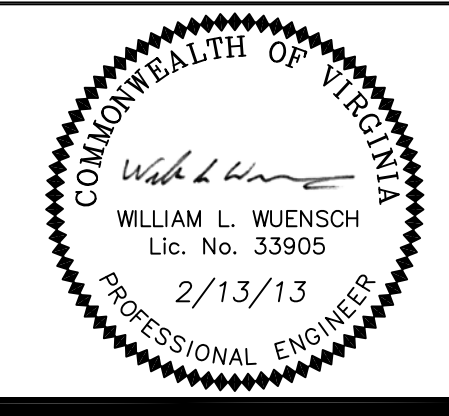
CONDUIT	RUN NO.										
	1	2	3	4	5	6	7	8	9	10	
SIZE	3"	3"	E	E	3"	E	3"	3"			
TYPE	P	P	E	E	E	E	P	P	-	-	
AWG	#6	2C	-	-	-	-	-	-	-	-	
	#14	2C PUSH BUTTON	3	1	2	2	-	3	1	-	-
		3C PED HEAD	3	1	2	2	-	3	1	-	-
		5C	-	-	-	-	3	3	-	2	-
	7C	-	-	-	-	1	1	-	-	-	
POWER/VIDEO CABLE**	-	-	-	-	1	1	-	-	-	-	
EVP CABLE	-	-	-	-	2	2	-	1	-	-	

(E) = EXISTING
(P) = PVC (SCHEDULE 40)
EVP = EMERGENCY VEHICLE PRE-EMPTION CABLE
** = PER ALDIS SPECIFICATIONS



NO.	DESCRIPTION	DATE	APP
1	CHANGED SERVICE FROM SE-5 TO SE-3 MAST POLE MOUNT.	2/13/13	
2	CHANGED ** NOTE TO ALDIS SPECIFICATIONS.	2/13/13	
3	ADDED CONSTRUCTION NOTE 17	2/13/13	
4	REVISED NOTE 5 AND NOTE 9.	2/13/13	

CONTRACTOR SHALL CONTACT MISS UTILITY @ 1-800-552-7001 FOR LOCATION OF ALL UTILITIES, AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.



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SIGNAL DESIGN PLAN
FOR OAK LANE AT RIVERMONT AVENUE
LYNCHBURG, VIRGINIA
INTERSECTION PLAN SHEET

SHEET NO. **S3**
SHEET **3** OF **3**