INDEX OF SHEETS

SHEET NUMBER TITLE

I COVER SHEET

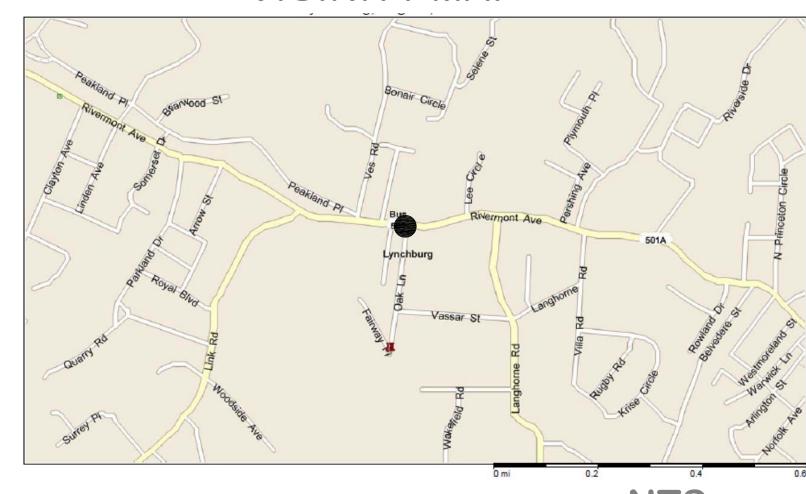
2 GENERAL NOTES AND QUANTITIES

3 INTERSECTION PLAN SHEET

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

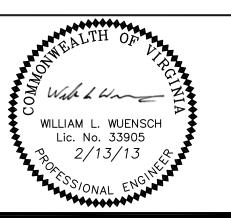
CITY OF LYNCHBURG, VIRGINIA

VICINITY MAP



NTS

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NO.	DESCRIPTION	DATE	APP





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

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

SHEET NO.

COVER

SHEET 1 OF

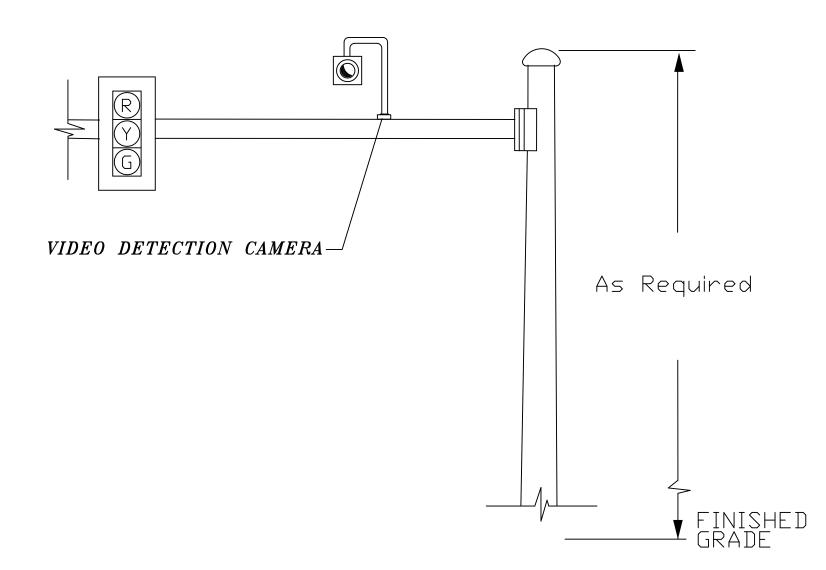
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GENERAL NOTES

- 1. All work shall be in accordance with the 2009 edition of the Manual on Uniform Traffic Control Devices (MUTCD, the 2007 edition of the VDOT Road and Bridge Specifications, the 2008 VDOT Road and Bridge Standards, 2011 Edition of the VA Work Area Protection Manual, 2011 Edition of the VA supplement to the MUTCD, and City of Lynchburg Specifications (Latest Edition) in effect at the time the signal plan is approved.
- 2. Mast arm pole shall conform to VDOT MP-1.
- 3. Mast arm pole foundation shall conform to VDOT PF-1.
- 4. Conductor cable, conduit, trench excavation, saw cut, and signal junction boxes shall conform to Virginia Department of Transportation (VDOT) Road and Bridge Standards Volume II.
- 5. The location of all existing underground utilities should be considered approximate. The Contractor shall be responsible for the definite location of each utility involved within the area of his excavation for work under this contract. The Contractor shall call MISS UTILITY (1-800-552-1007) before beginning work.
- 6. All signal heads shall be mounted in accordance with VDOT SM-3 and all signal heads shall include polycarbonate backplates. All traffic signal heads shall be 12" black and include visors.
- 7. It shall be the sole responsibility of the contractor to furnish and maintain, until the work has been accepted by the City, any and all signs, lights, barricades, flagmen, ect., necessary for the safety of the general public, including both vehicular and pedestrian traffic. All costs for the maintenance of traffic shall be included in the lump sum bid item. Maintenance of traffic shall be done according to the Virginia Work Area Protection Manual (latest edition).
- 8. All damages to existing structures, facilities, pavement, grassed areas, ect., shall be restored to existing condition by the contractor at his EXPENSE.
- 9. SIGNAL HEADS shall have LED indications. The LED display characteristics of LED balls shall present the appearance of incandescent type bulbs rather than discrete points of light. LED arrows shall be three—row type, not two-row. The preferred source is Dialite or approved equal.
- 10. The Contractor shall contact the City Department of Public Works (Adam Fick) at least 72 hours prior to beginning work, 434-455-4466.
- 11. Pole location shall be installed within 24" of the point as shown on the plan. Contractor shall stake and field verify with "MISS UTILITIY OF VIRGINIA" the pole location before ordering poles and arms. The City Traffic Engineer or his designee shall approve staked pole location.
- 12. Vehicle Detection shall be per the City's specifications for ALDIS equipment.
- 13. The pole supplier shall furnish to the City shop drawings and calculations for all poles and foundations.
- 14. This plan does not guarantee the existence or nonexistence of underground utilities. Prior to any construction, the Contractor shall verify the existence and location of, or the nonexistence of, underground or overhead utilities. Where conflicts occur, the Contractor shall contact the Engineer prior to beginning work.
- 15. The Contractor shall verify the elevations of all underground utilities to be crossed prior to jacking and boring conduits. The Contractor shall hand dig when crossing water lines, gas lines and sewer force mains.
- 16. All underground conduit shall be installed in accordance with Standard ECI-1.

- 17. All U-bolts, nuts, and washers shall be stainless steel. All plate material shall be galvanized.
- 18. Conduit entering junction boxes shall not extend over 3" maximum or 2" minimum and shall be fitted with bell ends or bushings.
- 19. Conductor(s). The proposed pole foundation shall be permanently marked to indicate the locations of all conduits cast in the foundation. The markings shall consist of an arrow, 4 to 6 inches long, and a letter designation as
 - (S) spare conduit;
 - (T) conduit with signal or detector cables;
 - (E) conduit with electrical service conductors for traffic signal;
 - (G) conduit for grounding
- 20. System bond wire is required only if the conduit is non-metallic. Payment shall be incidental to conduit cost.
- 21. Lane closures shall not be permitted between 7 AM to 9 AM and 4 PM to 6 PM.
- 22. The Contractor will stub and cap two each 2— inch PVC conduits for future use from each mast arm pole.
- 23. All conduits stubbed from junction boxes and foundations must extend a minimum of six inches beyond the box or foundation and must be capped.
- 24. Conduit and Pull Boxes are shown in the plan may be shifted in location to accomodate field conditions. All equipment shall be placed within the right-of-way.
- 25. Finish shall be per VDOT specifications and shall be applied by the pole manufacturer.
- 26. All equipment, including pedestrian detectors, poles, mastarms, luminaires, U—bolts, hardware, signal heads, bands, visors, overhead detection cameras (and riser poles) shall be semigloss black.
- 27. Contractor shall modify existing controller and cabinet to add the ALDIS camera detection equipment, and make new conductor connections.
- 28. Contractor shall use existing bolt pattern at existing ped pole foundation and signal pole foundation when ordering the pedestrian pole assemblies.
- 29. The Aldis Gridmart camera system shall be used on this project. The pay item shall include the processor, camera, interface cable, brackets and mounting arm, software, and related items for a complete installation.
- 30. Existing conduits and Jboxes shall be re—used for this project except as shown in the plan.

TYPICAL SIGNAL POLE AND VIDEO DETECTION PLACEMENT DETAIL



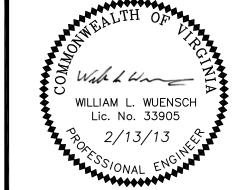
1	UPDATED QUANTITIES PER REVISIONS ON SHEET 3	2/13/13	3
NO.	DESCRIPTION	DATE	APP



1-800-552-7001 FOR LOCATION OF ALL

UTILITIES, AT LEAST 48 HOURS PRIOR TO

BEGINNING CONSTRUCTION.



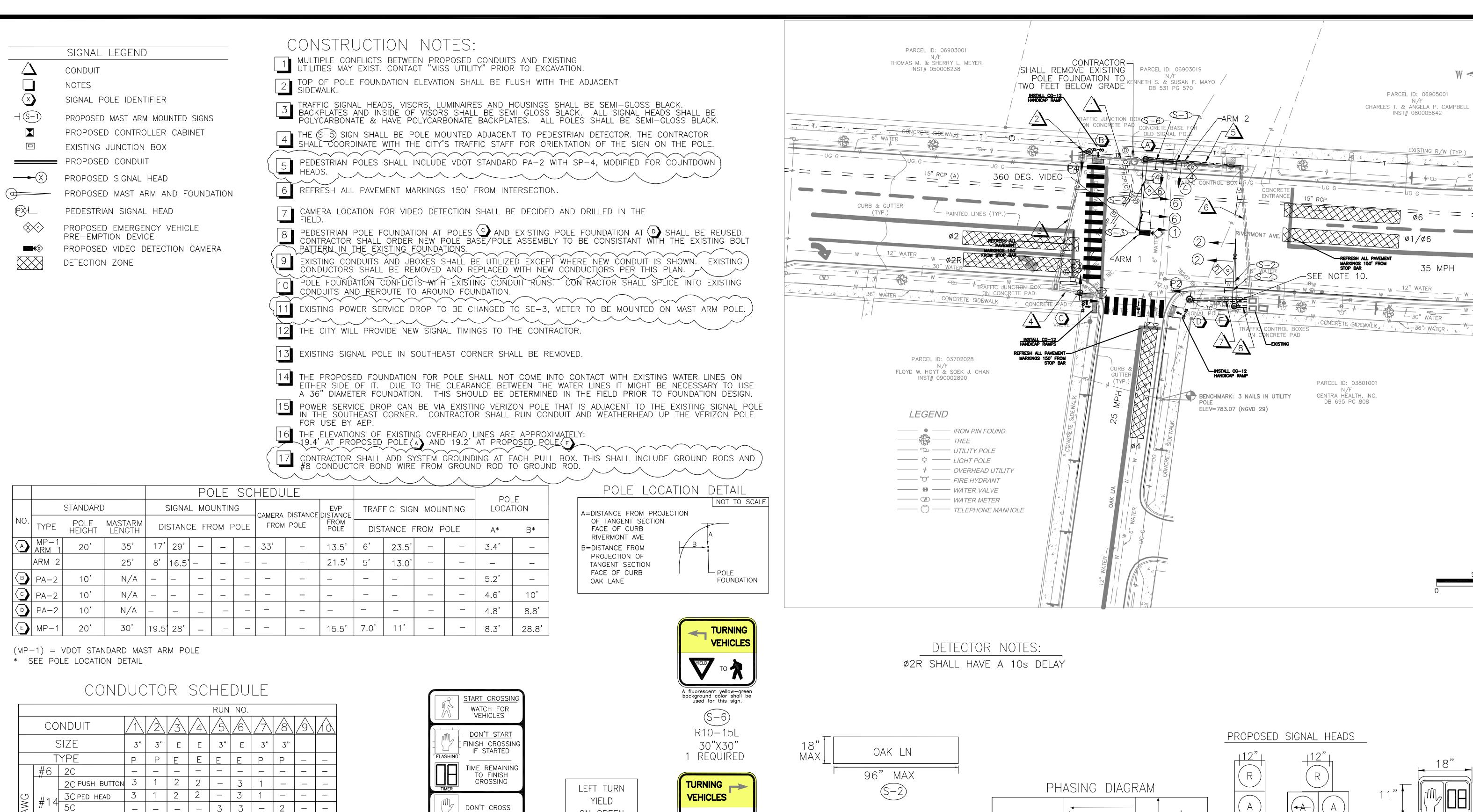


12-040	JOB NO.:
1-28-2013	DATE:
AS SHOWN	SCALE:
LLW	DRAWN BY:
WLW	DESIGNED BY:
\\/ \\/	CHECKED BY:

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

SHEET NO.

GENERAL NOTES AND QUANTITIES SHEET 2 OF 3



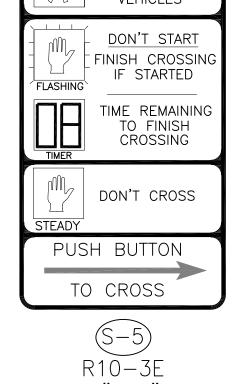
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(E) = EXISTING

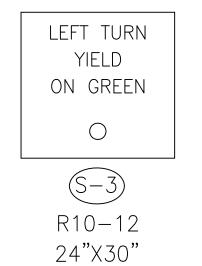
(P) = PVC (SCHEDULE 40)

= EMERGENCY VEHICLE PRE-EMPTION CABLE

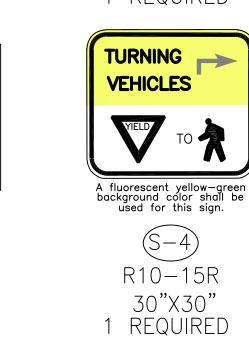
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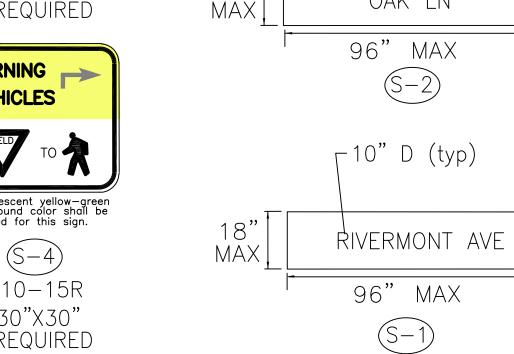


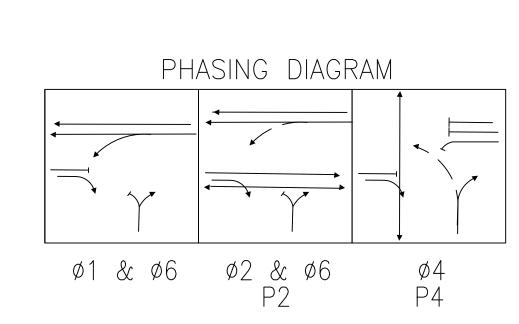
SEE NOTE 5



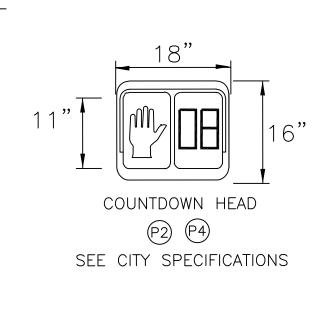
1 REQUIRED







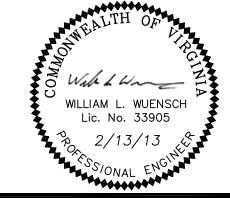
PRUPUSED SIGNAL HEADS	
R R R A A A G G G G G G G G G G G G G G	11" \(\frac{1}{\text{C}} \) C SEE



35 MPH

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	
NO.	DESCRIPTION	DATE	APP





EDD	
-&	
EPR, P.C.	
ENGINEERING & PLANNING RESOURCES" Civil • Stormwater • Traffic • Transportation	
637 BERKMAR CIRCLE Charlottesville • Virginia	

22901 • (434) 202•5082

12-040	JOB NO.:
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LLW	DRAWN BY:
WLW	DESIGNED BY:
WLW	CHECKED BY:

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

INTERSECTION PLAN SHEET

SHEET OF

SHEET NO.