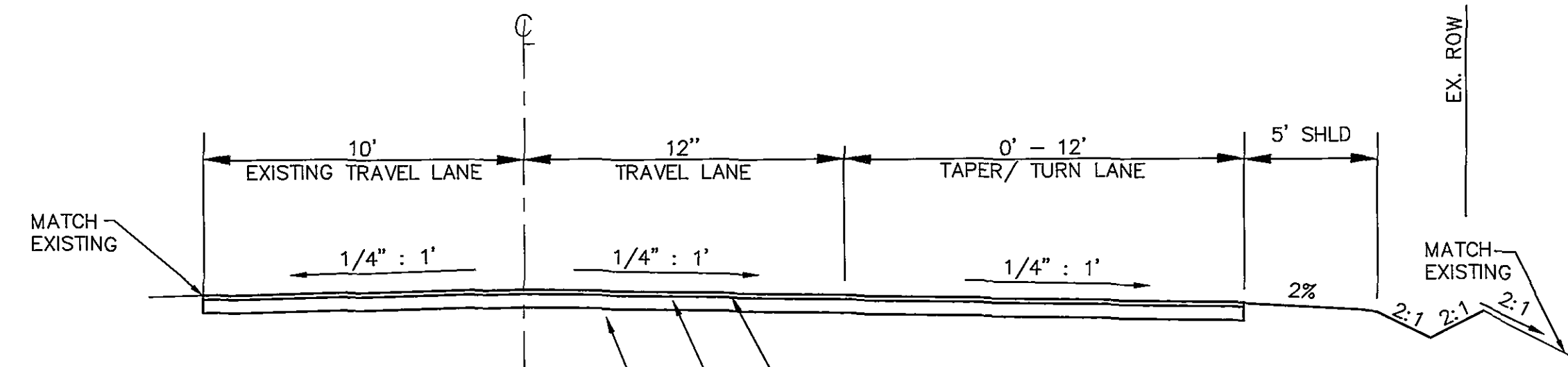


DRIVEWAY NOTES:
 D1. THE CONTRACTOR MUST MAINTAIN AT LEAST ONE DRIVEWAY ENTRANCE TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
 D2. WHEN IT IS NECESSARY TO CLOSE A COMMERCIAL DRIVEWAY DUE TO CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST PROVIDE A TEMPORARY DRIVEWAY TO THE PROPERTY UNLESS THE WORK IS COMPLETED DURING THE NON-WORKING HOURS.
 D3. THE CONTRACTOR MUST NOTIFY THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF CLOSING DRIVEWAY.
 D4. ALL RESIDENTIAL DRIVEWAYS MUST BE REOPENED WITHIN 24 HOURS OF BEING CLOSED.

TYPICAL DELINEATION FOR DRIVEWAY ENTRANCES

NOT TO SCALE
 REFERENCE: MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES



TYPICAL SECTION 1

N.T.S.

- ROADWAY SECTION LEGEND
- 1 SURFACE ASPHALT: 2" - SM 9.50
 - 2 BASE MIX ASPHALT: 6" - BM 25.0
 - 3 STONE BASE: 8" - 21B

GENERAL NOTES:

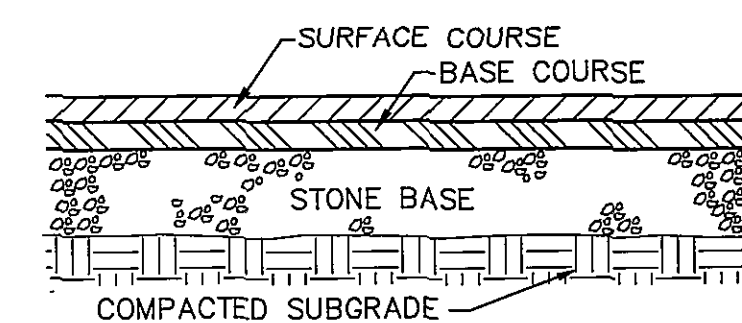
- CONTRACTOR SHALL PROVIDE A FULL TIME CERTIFIED TRAFFIC CONTROL SUPERINTENDENT FOR THE DURATION OF THE PROJECT.
- PEDESTRIAN THROUGH FARE MUST BE MAINTAINED AT ALL TIMES DURING THIS PROJECT AND IN ACCORDANCE WITH ADA GUIDELINES.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH OF THE CONTRACT IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND VIRGINIA WORK AREA PROTECTION MANUAL.
- ON SIDE ROADS, SPACE CONSTRAINTS MAY REQUIRE THE CONTRACTOR TO MAINTAIN LOCAL TRAFFIC USING SINGLE LANE CHANNELIZATION. IF THE ROAD HAS TWO WAY TRAFFIC, ALTERNATING FLOW SHALL BE CONTROLLED BY FLAGMEN. TWO WAY TRAFFIC SHALL BE RESTORED DURING NON-WORKING HOURS. PROPER SIGNING, LANE TAPERS, ETC. WILL BE REQUIRED AS PER DETAILS.
- EXISTING SIGNS WITHIN THE CONSTRUCTION LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR. SIGNS IN CONFLICT WITH MAINTENANCE AND PROTECTION OF TRAFFIC PLAN SHALL BE COVERED OR TEMPORARILY REMOVED.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ACCESS TO ALL DRIVEWAYS, AND SIDE ROADS AT ALL TIMES FOR PEDESTRIANS, VEHICLES, AND EMERGENCY VEHICLES UNLESS OTHERWISE INDICATED.
- THESE PLANS AND DETAILS DEPICT THE MINIMUM SIGNING AND CHANNELIZATION NEEDED TO MAINTAIN AND PROTECT TRAFFIC WITHIN THE WORK ZONES INCLUDED IN THIS CONTRACT.
- THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- ALL SIGN LOCATIONS ARE GENERAL. EXACT LOCATIONS WILL BE DETERMINED BY CONTRACTOR.
- THE CONTRACTOR SHALL NOT MIX DELINEATION DEVICES IN A LINEAR CLOSURE OR TAPER (E. CONES, VERTICAL PANELS, CANDLES, OR DRUMS). HOWEVER, DIFFERENT DELINEATION DEVICES MAY BE USED IN DIFFERENT AREAS OF THE PROJECT.
- ALL LANE SHIFTS SHALL BE TAPERED OVER LENGTH "L" WHERE $L = \frac{WS^2}{60}$ (WHEN S = 40 MPH OR LESS)
 $L = W \times S$ (WHEN S IS GREATER THAN 45 MPH)
 W = WIDTH OF LANE SHIFT IN FEET
 S = POSTED SPEED LIMIT (MPH)
- SIGNS AND BARRICADES PLACED AT OR NEAR INTERSECTIONS OR DRIVEWAYS SHALL BE PLACED SO THEY DO NOT OBSTRUCT OTHER SIGNS OR SIGHT DISTANCE.
- THE DETAILS SHOWN ON THESE PLAN SHEETS ARE THE PLAN FOR MAINTENANCE AND PROTECTION OF TRAFFIC FOR THIS CONTRACT DURING CONSTRUCTION. THE CONTRACTOR IS ADVISED THAT PRIOR WRITTEN APPROVAL MUST BE RECEIVED FROM THE ENGINEER TO ALTER THIS PLAN.
- FLAGGER SHALL BE REQUIRED AS ORDERED BY THE ENGINEER.
- WORK ZONES ON OPPOSITE SIDES OF THE ROAD SHALL NOT BE PERMITTED TO OVERLAP. A WORK ZONE IS DEFINED AS THE AREA THROUGH WHICH TRAFFIC IS RESTRICTED BY CONSTRUCTION ACTIVITIES OR BY A DROP-OUT OF GREATER THAN 4 INCHES ADJACENT TO A TRAVEL LANE.
- THE CONTRACTOR SHALL CLOSELY COORDINATE ALL WORK IMPACTING SCHOOL PEDESTRIAN TRAFFIC AND SCHOOL BUS TRAFFIC WITH THE ENGINEER OR HIS SPECIFIED AGENT. SCHOOL ROUTE MAINTENANCE PLANS SHALL BE SUBMITTED AND APPROVED PRIOR TO BEGINNING ANY WORK WHICH IMPACTS ACTIVE ROUTES. (ANY ADDITIONAL SIGNAGE, FLAGGERS OR OTHER REQUIREMENTS ORDER BY THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "MAINTENANCE AND PROTECTION OF TRAFFIC.")
- VEHICLES BELONGING TO THE CONTRACTOR OR THE EMPLOYEES OF THE CONTRACTOR SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDER ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC WITH IN THE PROJECT LIMITS OR PARKED IN A MANNER WHICH OBSTRUCTS ANY SIGNS, BARRICADES, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIALS WHERE IT IS DEEMED A SAFETY HAZARD.

EMERGENCY ACCESS NOTES:

- AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS. LOCAL FIRE AND POLICE AUTHORITIES AND AMBULANCE SERVICES SHALL BE NOTIFIED BY THE CONTRACTOR IN ADVANCE OF THE BEGINNING OF WORK IN ORDER TO COORDINATE AND MAINTAIN SUFFICIENT EMERGENCY SERVICES.
- RESPONSIBILITY FOR EMERGENCY REPAIRS-- THE CONTRACTOR SHALL IN WRITING, SUBMIT TO THE APPROPRIATE LAW ENFORCEMENT AGENCIES THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE PERSON OR PERSONS AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE THE NORMAL WORKING HOURS. DUPLICATE COPIES OF THE ABOVE SHALL BE FILED WITH THE ENGINEER AND OWNER.

TEMPORARY DRAINAGE NOTES:

- CONTRACTOR SHALL ENSURE UNINTERRUPTED OPERATION OF DRAINAGE FACILITIES, AND OTHER HIGHWAY ELEMENTS, OLD OR NEW INCLUDING DETOURS. THE CONTRACTOR SHALL DEVOTE PARTICULAR ATTENTION TO ALL DRAINAGE FACILITIES KEEPING THEM FULLY OPERATIVE AT ALL TIMES.



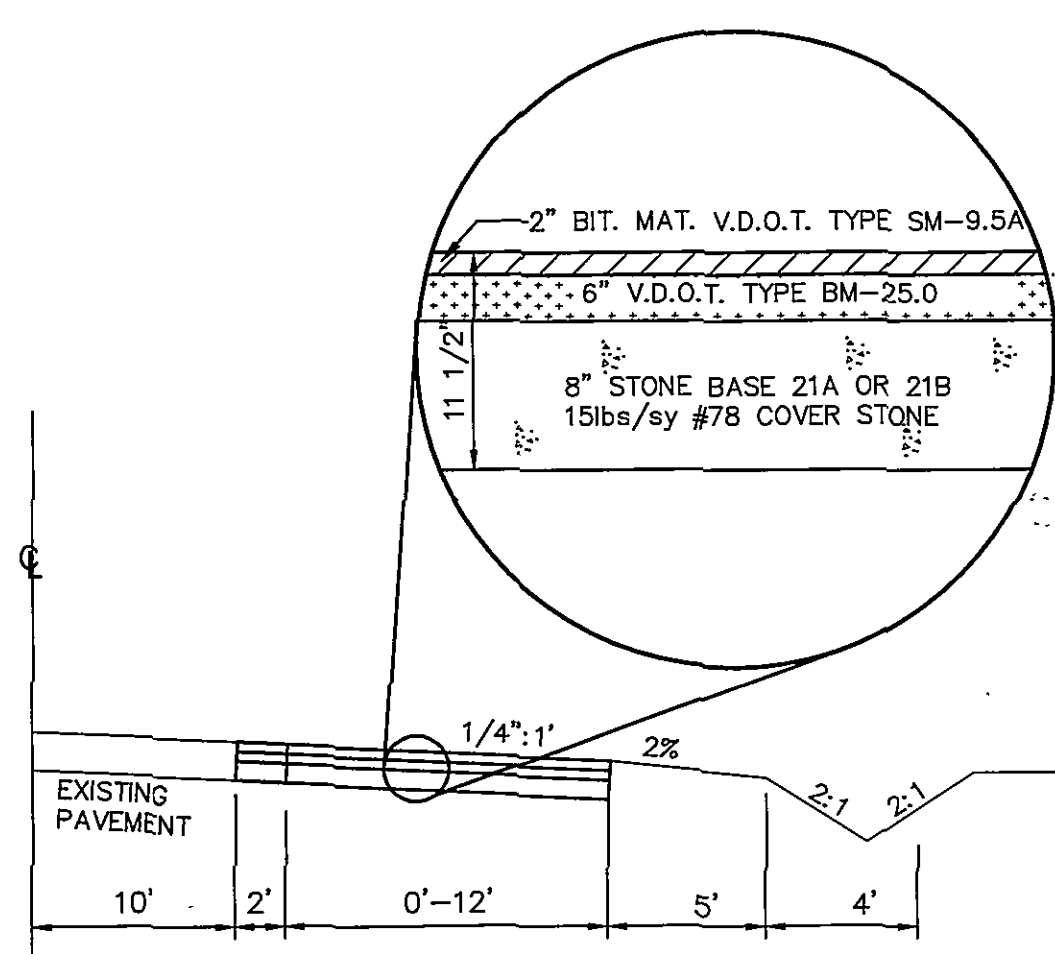
SURFACE COURSE: 2" V.D.O.T. TYPE SM-9.50
 TACK COAT: CRS-1 @ 0.05 GALLONS PER SQ. YD.
 BASE COURSE: 6" V.D.O.T. TYPE BM-25.0
 STONE BASE: 8" V.D.O.T. TYPE 1, SIZE 21B

NOTE:
 APPLICATION OF TACK AT JOINTS, ADJACENT TO CURBS, GUTTERS OR OTHER APPURTENANCES SHALL BE APPLIED BY HAND WAND AT THE RATE OF 0.2 GAL./SQ.YD.

NOTE: ACTUAL PAVING SECTIONS TO BE BASED ON CBR RESULTS.

VDOT PAVEMENT SECTION

N.T.S.

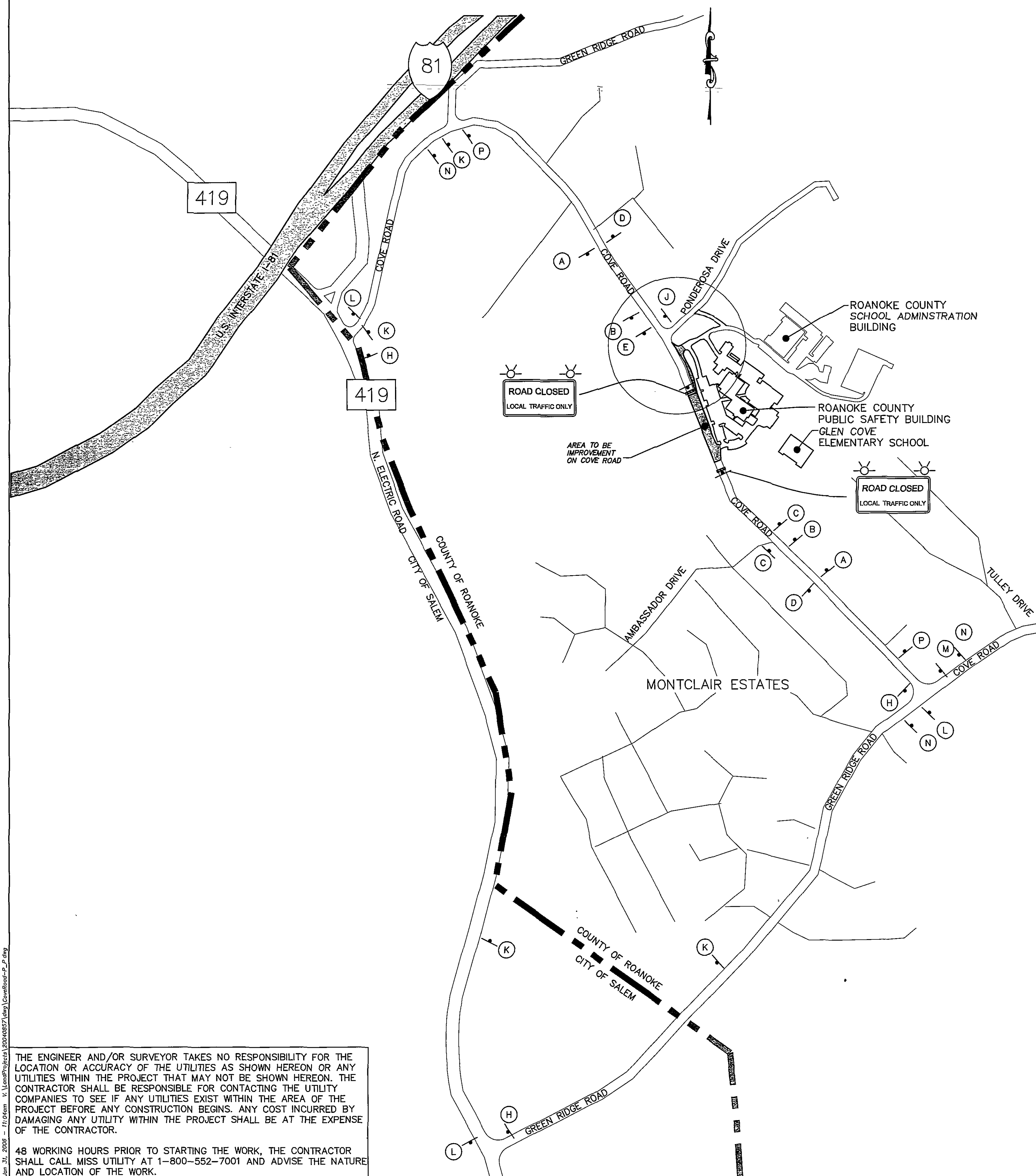


PRIME COAT: RC-250 @ 0.40 GALLONS PER SQ. YD.
 TACK COAT: RC-250 @ 0.05 GALLONS PER SQ. YD.

NOTE:
 1. APPLICATION OF TACK COAT MAY BE WAIVED BY ENGINEER IF SURFACE COURSE IS APPLIED IMMEDIATELY AFTER PLACING AND COMPACTING THE BASE COURSE.
 2. ACTUAL PAVING SECTIONS TO BE BASED ON CBR RESULTS.

TURN LANE DETAIL

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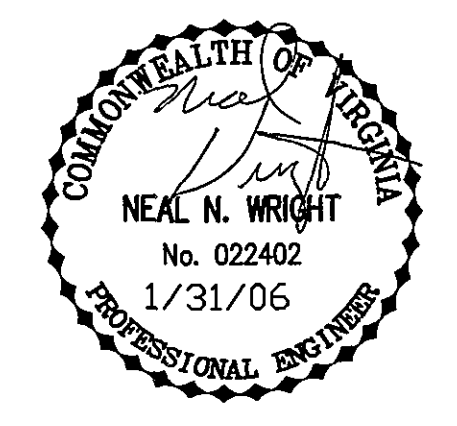


THE ENGINEER AND/OR SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES AS SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT THAT MAY NOT BE SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO SEE IF ANY UTILITIES EXIST WITHIN THE AREA OF THE PROJECT BEFORE ANY CONSTRUCTION BEGINS. ANY COST INCURRED BY DAMAGING ANY UTILITY WITHIN THE PROJECT SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

48 WORKING HOURS PRIOR TO STARTING THE WORK, THE CONTRACTOR SHALL CALL MISS UTILITY AT 1-800-552-7001 AND ADVISE THE NATURE AND LOCATION OF THE WORK.

PROPOSED LEGEND

- DIRECTION OF TRAFFIC
- LANES UNDER CONSTRUCTION
- MAINTAIN ALTERNATING ONE LANE TRAFFIC DURING CONSTRUCTION
- TEMPORARY CONCRETE BARRIER
- DELINEATION DEVICE
- CONSTRUCTION BARREL
- CONSTRUCTION SIGN
- FLAGMEN
- SIGN FACE WITH MUTCD NUMBER



HURT & PROFFITT
 ENGINEERING & SURVEYING PLANNING
 INCORPORATED
 2514 LANGSHIRE ROAD
 LYNCHBURG, VA 24501
 800.342.4900 TOLL FREE
 434.842.1774 FAX
 434.842.5044 FAX

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DVA
 DONNALLY VUICIC, ASSOCIATES, L.L.C.
 architecture ■ planning ■ interiors
 400 Professional Drive ■ Suite 200 ■ Gaithersburg, Maryland 20879-3433
 301-590-8900 ■ Fax 301-590-8620 ■ EMAIL: DVA-ARCH.COM



SITE PLAN FOR
 ROANOKE COUNTY PUBLIC SAFETY BUILDING
 ROANOKE COUNTY, VIRGINIA
 NORTHROP GRUMMAN
 MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL PLAN

NORTHROP GRUMMAN

REVISIONS	
03/16/05 PER COUNTY COMMENTS	
09/29/05 PER COUNTY COMMENTS	
04/27/05 PER COUNTY COMMENTS	
05/11/05 PER COUNTY COMMENTS	
07/26/05 PER COUNTY COMMENTS	
11/09/05 PER COUNTY COMMENTS	
12/08/05 PER COUNTY COMMENTS	
1/16/06 PER VDOT COMMENTS	
ISSUED:	DRAWN & PROFFITT NUMBER:
12/08/05	20040837
DRAWN	CHECKED
DVA	MDM
1/31/06	SCALE
DRAWING	

C200

SHEET 7 OF 18