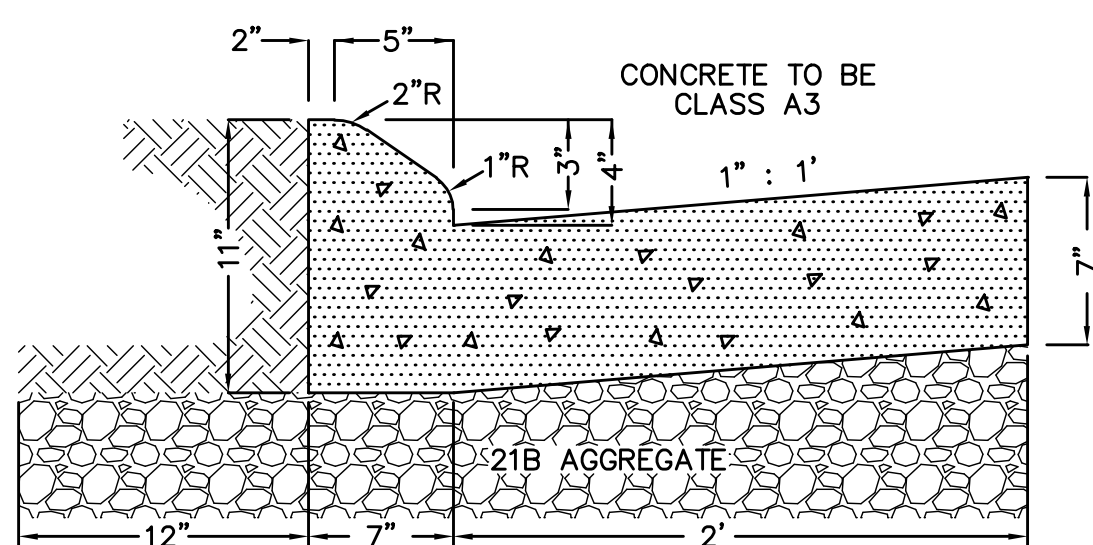


CONCRETE CURB & GUTTER FOR CG-6

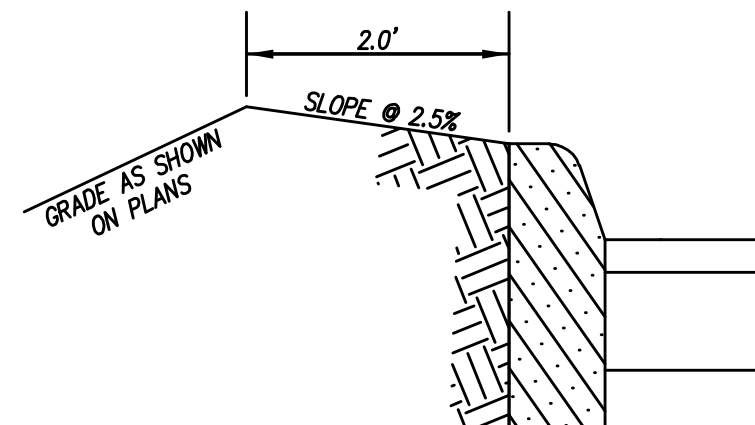
NO SCALE

SEE VDOT ROAD & BRIDGE STANDARDS FOR ADDITIONAL CURB AND GUTTER NOTES AND DETAILS.

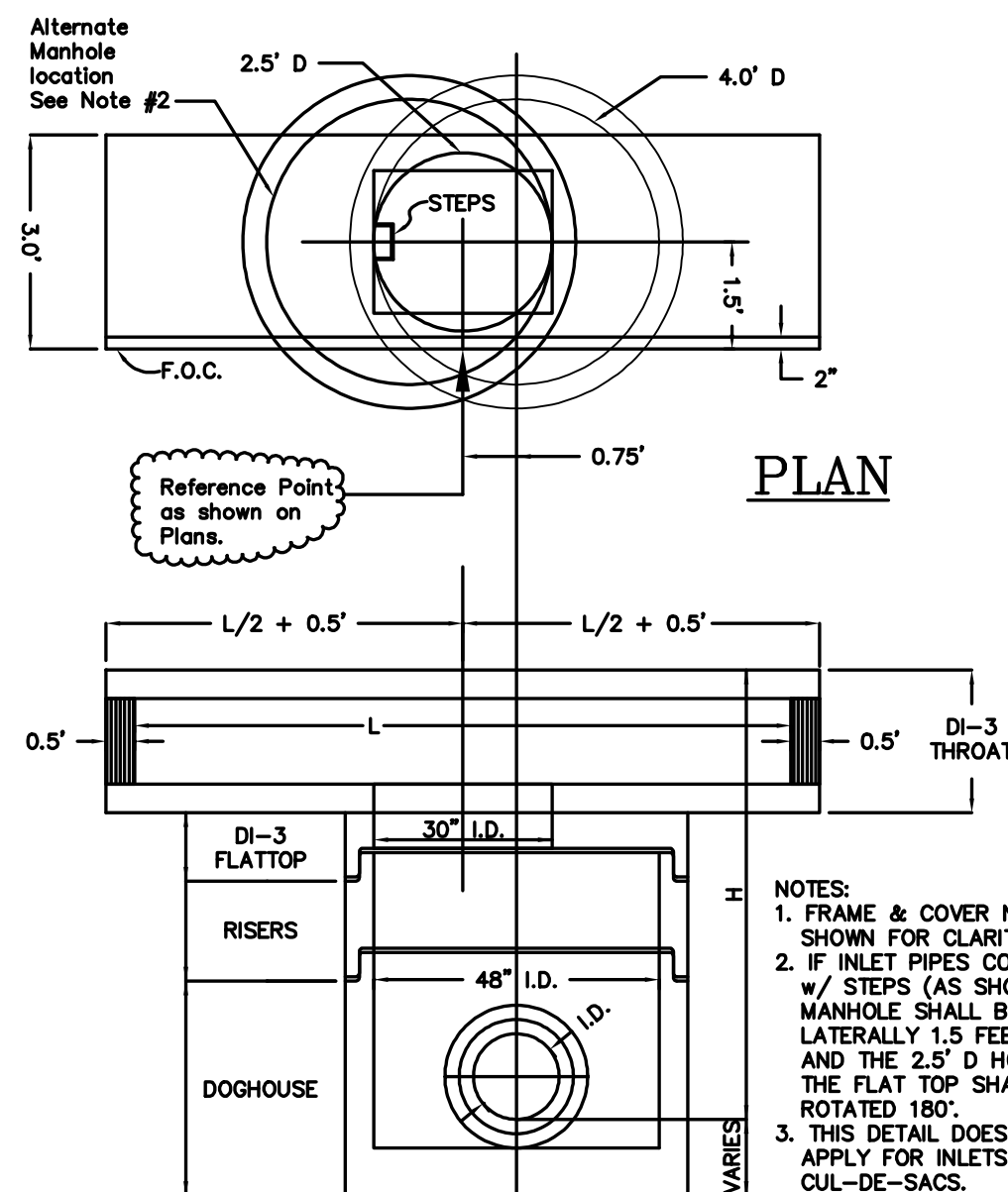


CONCRETE CURB AND GUTTER VDOT (CG-7)

NO SCALE

BACK OF CURB DETAIL
FOR CG-6 CURB & CG-7 CURBS

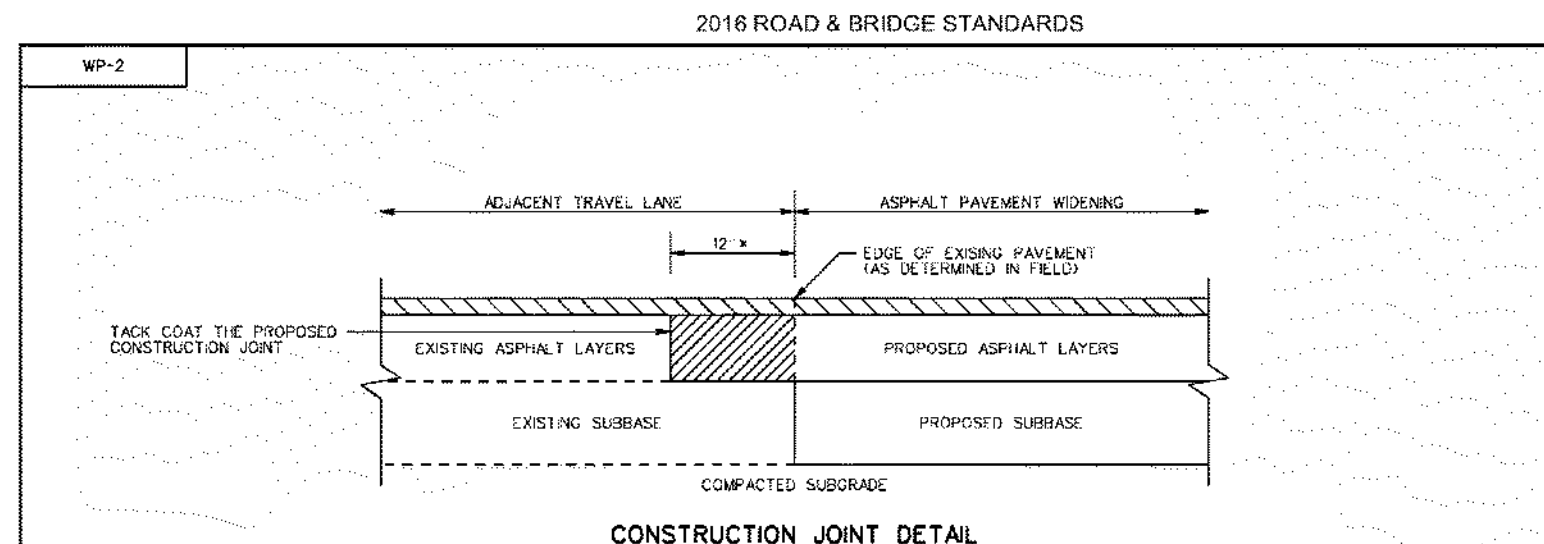
NO SCALE



PROFILE

LOCATION DETAIL FOR DI-3A & 3C (PRECAST)

NO SCALE



CONSTRUCTION JOINT DETAIL

- REMOVE EXISTING ASPHALT LAYERS TO EXISTING SUBGRADE AND REPLACE WITH PROPOSED ASPHALT WIDENING LAYERS
- PROPOSED MINIMUM 1 1/2" INCH THICK ASPHALT SURFACE COURSE (SEE NOTE 5)
- MINIMUM 1/2" INCH THICK ASPHALT SURFACE COURSE (SEE NOTE 5)

NOTES:

- ASPHALT PAVEMENT WIDENING SHALL HAVE A PAVEMENT DESIGN IN ACCORDANCE WITH CURRENT VDOT PROCEDURES AND BE APPROVED BY THE ENGINEER.
- THE PAVEMENT DESIGN FOR ASPHALT WIDENING SHALL MEET OR EXCEED THE DESIGN AND TYPES OF THE EXISTING PAVEMENT. SUBSURFACE DRAINAGE OF THE EXISTING AND PROPOSED PAVEMENT SHALL BE MAINTAINED IN THE PAVEMENT DESIGN.
- A MINIMUM OF THREE CORES SHALL BE TAKEN ALONG THE CENTER OF THE ADJACENT TRAVEL LANE TO DETERMINE THE TYPE AND THICKNESS OF EXISTING PAVEMENT LAYERS. THESE CORES SHALL BE SPACED NO MORE THAN 300 FEET APART.
- THE ADJACENT TRAVEL LANE SHALL BE MILLED A MINIMUM DEPTH OF 1 1/2" INCHES AND REPLACED WITH AN ASPHALT SURFACE COURSE TO MATCH THE PROPOSED PAVEMENT WIDENING SURFACE COURSE, UNLESS WAIVED BY THE ENGINEER.
- THE ENGINEER MAY REQUIRE THE MILLING DEPTH OF THE EXISTING PAVEMENT TO BE ADJUSTED TO ACHIEVE AN ACCEPTABLE PAVEMENT CROSS-SLOPE AND EFFECTIVE SURFACE DRAINAGE.
- EXISTING PAVEMENT MARKINGS AND MARKERS WITHIN THE PROJECT LIMITS SHALL BE REPRODUCED SUBJECT TO THE APPROVAL OF THE ENGINEER.
- FINAL TRANSVERSE PAVEMENT TIE-INS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 315 OF THE SPECIFICATIONS EXCEPT THAT ALL JOINTS BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE TESTED USING A 10 FOOT STRAIGHTEDGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 315 OF THE SPECIFICATIONS.

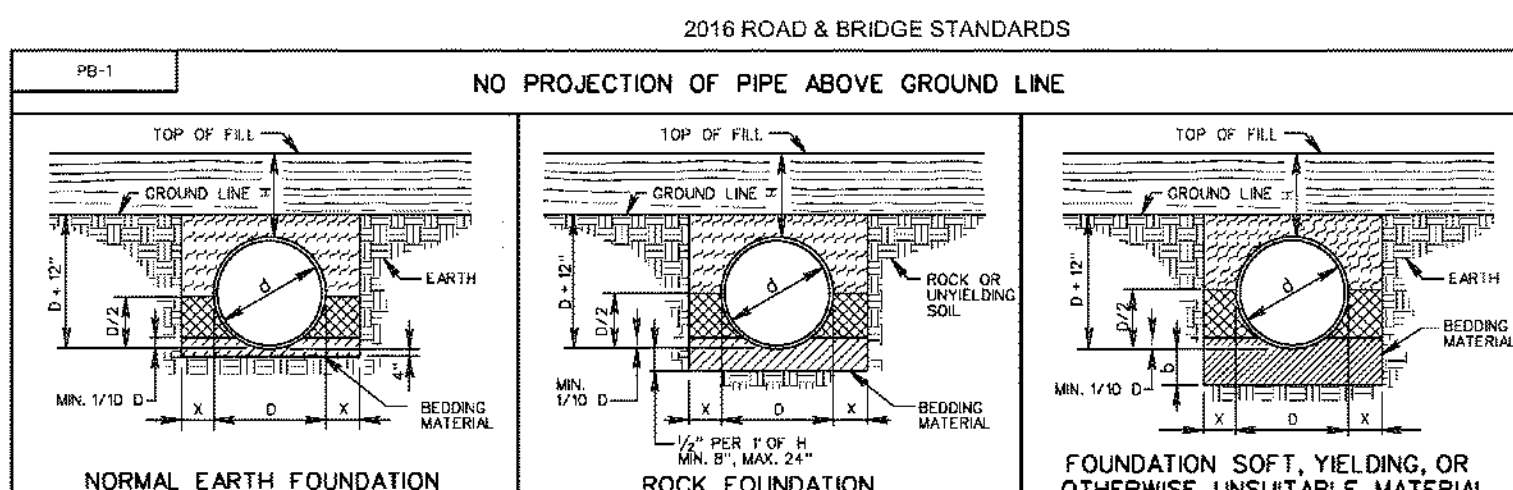
VDOT	ROAD AND BRIDGE STANDARDS
SHEET 1 OF 1	REVISION DATE
303.02	

ASPHALT PAVEMENT WIDENING
FOR WIDENING SUBJECT TO TRAFFIC

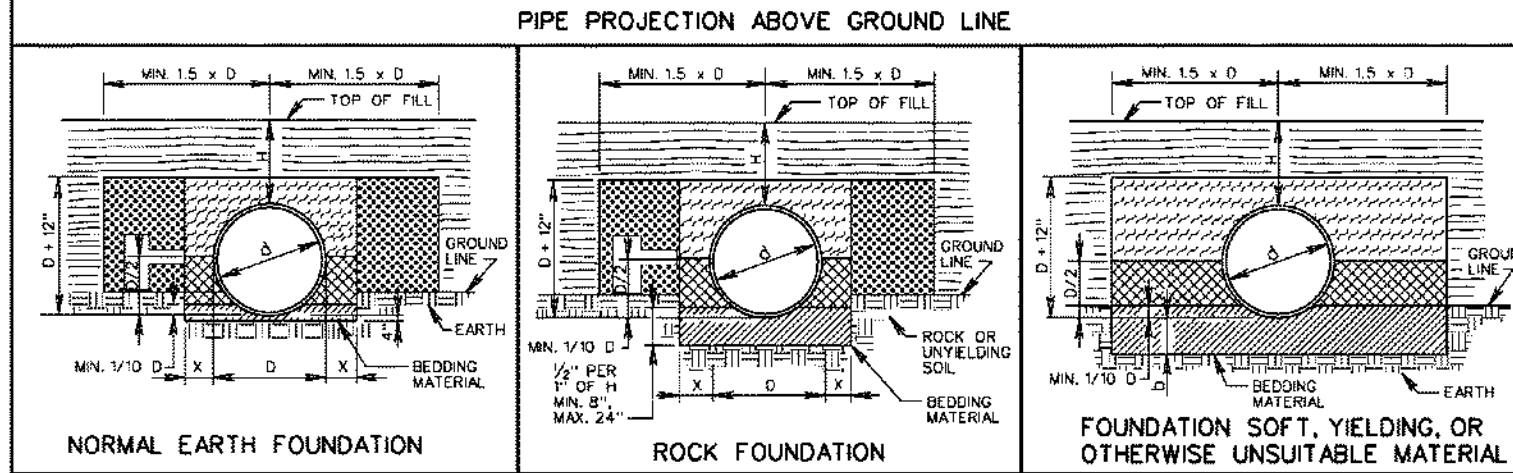
VIRGINIA DEPARTMENT OF TRANSPORTATION

2016 ROAD & BRIDGE STANDARDS

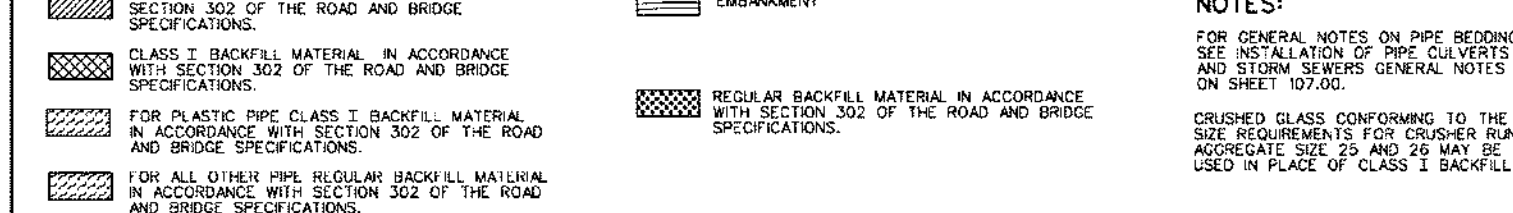
SPECIFICATION	REFERENCE
315	



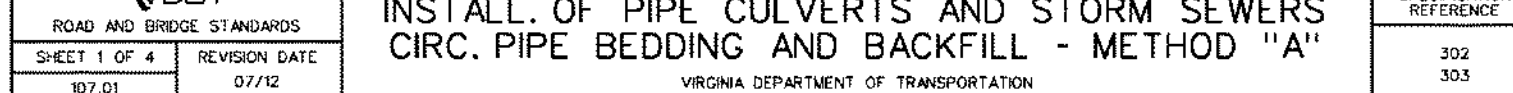
PIPE PROJECTION ABOVE GROUND LINE



PIPE PROJECTION ABOVE GROUND LINE



PIPE PROJECTION ABOVE GROUND LINE



PIPE PROJECTION ABOVE GROUND LINE

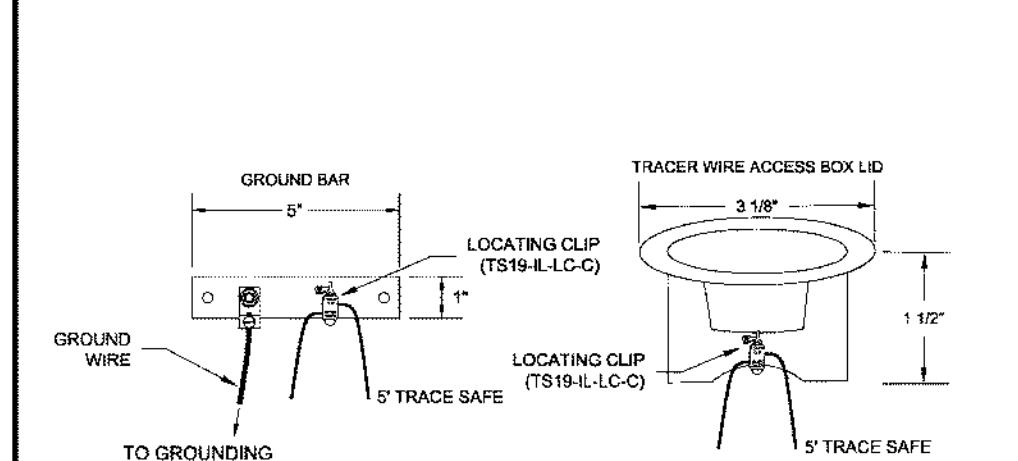
INSTALL. OF PIPE CULVERTS AND STORM SEWERS
CIRC. PIPE BEDDING AND BACKFILL - METHOD "A"

VIRGINIA DEPARTMENT OF TRANSPORTATION

2016 ROAD & BRIDGE STANDARDS

SPECIFICATION	REFERENCE
303	

- TRACER WIRES SHALL BE INSTALLED USING MANHOLE, TRACER WIRE ACCESS BOXES, VALVE BOXES OR VALVES, WATER METERS AND FIRE HYDRANTS AS ACCESS POINTS.
- FOR WATER AND SEWER, INSTALL ALL CAST IRON TRACER WIRE ACCESS BOXES.
- ALL PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #67 OR #68 STONE.
- IN VDOT ROW, THE CONTRACTOR SHALL REPLACE THE PAVEMENT AS REQUIRED AND SPECIFIED BY VDOT. IN ROANOKE CITY, CONTRACTOR SHALL REPLACE PAVEMENT AS REQUIRED BY CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS, LATEST EDITION.
- ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR APPLICABLE LOCALITY.
- PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM VDOT AND/OR APPLICABLE LOCALITY.
- IN AREAS SUBJECT TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 4" LIFTS AND SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.
- ALL SEWER LINE PIPE SHALL BE BEDDED IN COMPACTED GRANULAR MATERIAL. BEDDING REQUIREMENTS FOR DUCTILE SEWER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA. BENCH CUT ON EACH SIDE OF PAVEMENT SHALL BE IN ACCORDANCE WITH VDOT OR APPLICABLE LOCALITY SPECIFICATIONS.
- ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS: HAZARD RECOGNITION IN TRENCHING AND SHORING".
- THE TRACER WIRE SHALL BE PLACED ALONG THE LOWER QUADRANT OF THE PIPE. THE WIRE SHALL NOT TOUCH THE PIPE, BUT SHALL BE A MAXIMUM OF 1/2" FROM THE PIPE. NON-METALLIC SPACERS MAY BE USED TO MAINTAIN A SET DISTANCE FROM THE UTILITY.
- GROUND ROD SHALL BE INSTALLED AT EACH LOCATION WHERE GROUND WIRE SURFACES AND CONNECTS TO GROUND BAR. GROUND ROD SHALL BE COPPER COATED WITH A MINIMUM DIAMETER OF 3/8" AND SHALL BE BURIED A MINIMUM OF FOUR (4) FEET INTO THE GROUND.
- GROUND BAR SHALL BE STAINLESS STEEL, SHALL BE ATTACHED USING 8# 2" X 1/2" SS HEX TAPSCREWS. THE FOLLOWING SHALL BE INSTALLED IN (4) FOUR CENTER HOLES: (3) 3/8" NPT, (1) 1/2" NPT AND (1) 1/4" NPT. THE FOURTH HOLE SHALL HAVE A BURNED KALUMINUM MECHANICAL TERMINAL LUG FOR THE 8# AWG GROUND WIRE. THE ASSEMBLY CAN BE ACQUIRED AT ROSS INDUSTRIES SUPPLY, INC. (800-895-8888), CUMMINS P-11. THE ENDS OF THE TRACER WIRE SHALL BE PLACED IN THE GROUND BAR AS SHOWN BELOW.
- IF USING TRACER WIRE ACCESS BOX AS ACCESS POINT, GROUND BAR WILL NOT BE REQUIRED. WIRES SHALL BE CONNECTED AS SHOWN BELOW. TRACER WIRE SHALL BE OF ADEQUATE LENGTH TO EXTEND FIVE (5) FEET ABOVE THE TOP OF ACCESS BOX.
- TWO WIRES OF TRACER WIRE SHALL BE WRAPPED TOGETHER AROUND BASE OF HYDRANT. WIRE SHALL NOT BE LEFT IN A WAY THAT WOULD INTERFERE WITH MOVING AROUND HYDRANT.
- WHEN USING ALL DUCTILE IRON, TRACER WIRE FOR SERVICES SHALL BE 12 AWG COPPER TRACER WIRE. TRACER WIRE SHALL HAVE BARE WIRE CONTACT TO DUCTILE IRON.

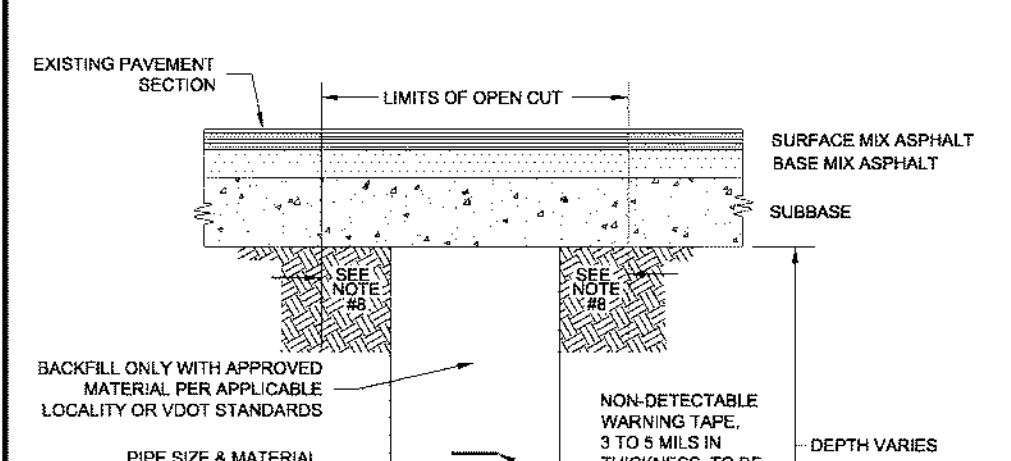


TRACER WIRE FOR NON-METALLIC PRESSURE PIPE

G-4

08/06/16

- BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND MANUFACTURER'S RECOMMENDATION.
- ALL PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #67 OR #68 STONE.
- IN VDOT ROW, THE CONTRACTOR SHALL REPLACE THE PAVEMENT AS REQUIRED AND SPECIFIED BY VDOT. IN ROANOKE CITY, CONTRACTOR SHALL REPLACE PAVEMENT AS REQUIRED BY CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS, LATEST EDITION.
- ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR APPLICABLE LOCALITY.
- PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM VDOT AND/OR APPLICABLE LOCALITY.
- IN AREAS SUBJECT TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 4" LIFTS AND SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.
- ALL SEWER LINE PIPE SHALL BE BEDDED IN COMPACTED GRANULAR MATERIAL. BEDDING REQUIREMENTS FOR DUCTILE SEWER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA. BENCH CUT ON EACH SIDE OF PAVEMENT SHALL BE IN ACCORDANCE WITH VDOT OR APPLICABLE LOCALITY SPECIFICATIONS.
- ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS: HAZARD RECOGNITION IN TRENCHING AND SHORING".
- THE TRACER WIRE SHALL BE PLACED ALONG THE LOWER QUADRANT OF THE PIPE. THE WIRE SHALL NOT TOUCH THE PIPE, BUT SHALL BE A MAXIMUM OF 1/2" FROM THE PIPE. NON-METALLIC SPACERS MAY BE USED TO MAINTAIN A SET DISTANCE FROM THE UTILITY.
- GROUND ROD SHALL BE INSTALLED AT EACH LOCATION WHERE GROUND WIRE SURFACES AND CONNECTS TO GROUND BAR. GROUND ROD SHALL BE COPPER COATED WITH A MINIMUM DIAMETER OF 3/8" AND SHALL BE BURIED A MINIMUM OF FOUR (4) FEET INTO THE GROUND.
- GROUND BAR SHALL BE STAINLESS STEEL, SHALL BE ATTACHED USING 8# 2" X 1/2" SS HEX TAPSCREWS. THE FOLLOWING SHALL BE INSTALLED IN (4) FOUR CENTER HOLES: (3) 3/8" NPT, (1) 1/2" NPT AND (1) 1/4" NPT. THE FOURTH HOLE SHALL HAVE A BURNED KALUMINUM MECHANICAL TERMINAL LUG FOR THE 8# AWG GROUND WIRE. THE ASSEMBLY CAN BE ACQUIRED AT ROSS INDUSTRIES SUPPLY, INC. (800-895-8888), CUMMINS P-11. THE ENDS OF THE TRACER WIRE SHALL BE PLACED IN THE GROUND BAR AS SHOWN BELOW.
- IF USING TRACER WIRE ACCESS BOX AS ACCESS POINT, GROUND BAR WILL NOT BE REQUIRED. WIRES SHALL BE CONNECTED AS SHOWN BELOW. TRACER WIRE SHALL BE OF ADEQUATE LENGTH TO EXTEND FIVE (5) FEET ABOVE THE TOP OF ACCESS BOX.
- TWO WIRES OF TRACER WIRE SHALL BE WRAPPED TOGETHER AROUND BASE OF HYDRANT. WIRE SHALL NOT BE LEFT IN A WAY THAT WOULD INTERFERE WITH MOVING AROUND HYDRANT.
- WHEN USING ALL DUCTILE IRON, TRACER WIRE FOR SERVICES SHALL BE 12 AWG COPPER TRACER WIRE. TRACER WIRE SHALL HAVE BARE WIRE CONTACT TO DUCTILE IRON.

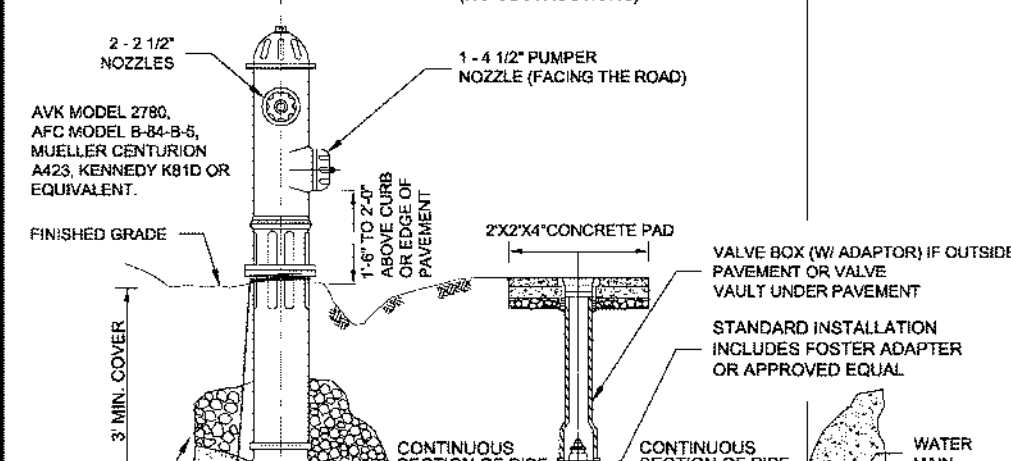


TRACER WIRE FOR NON-METALLIC PRESSURE PIPE

G-4

08/06/16

- PUBLIC HYDRANTS SHALL BE PAINTED SILVER WITH AN OIL-BASED PAINT. PRIVATE HYDRANTS SHALL ALSO BE PAINTED SILVER WITH AN OIL-BASED PAINT UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL FIRE MARSHAL.
- FIRE HYDRANT SHALL BE INSTALLED 2 MIN. AND 4 MAX. FROM BACK OF CURB OR 6 MIN. AND 12 MAX. FROM EDGE OF PAVEMENT WHEN CURB IS NOT PRESENT. FIRE HYDRANT TO BE INSTALLED WITH RIGHT-OF-WAY OR EASEMENT LINE.
- AREA AROUND HYDRANT AT A RADIUS OF 4' TO BE LEVEL AND UNDISTURBED.
- WATERPROOF BAGS OR CUT OF SERVICE RINGS SHALL BE PLACED OVER ALL NEWLY INSTALLED FIRE HYDRANTS.
- HYDRANT ASSEMBLIES SHALL BE ROUGHED AND RESTRAINED WITH APPROVED M.J. GLAND RESTRAINTS. HIGH PRESSURE OVER 150 PSI ALSO REQUIRES CONCRETE THRUST BLOCKS AS SHOWN BELOW.
- IF DURING CONSTRUCTION THE SEASONAL WATER LEVEL IS NOTED TO BE ABOVE THE DRAIN OUTLETS OF THE PROPOSED HYDRANT, THE PARTICIPATING UTILITY WILL BE NOTIFIED IMMEDIATELY SO THAT THE HYDRANT CAN BE RELOCATED TO A SUITABLE LOCATION, OVERTOPPED, OR THE DRAIN-HOLE PLUGGED.
- TWO WIRES OF TRACER WIRE SHALL BE WRAPPED AROUND BASE OF HYDRANT.
- APPROVED MODELS - AVM MODEL 2780, APC MODEL 844-S-5, MUELLER CONCRETE A423, KENNEDY K810 OR EQUIVALENT.
- WHERE HYDRANT LATERAL(S) IS APPROVED BY THE PARTICIPATING UTILITY TO BE LONGER IN LENGTH, MAKING THE CONTINUOUS SECTION OF PIPE ON EACH SIDE OF THE GATE VALVE UNDESIRABLE, RESTRAINED PIPE JOINTS SHALL BE INSTALLED BETWEEN THE TEE AND GATE VALVE IN LIEU OF JOINTING. HOWEVER, A JOINTED CONTINUOUS SECTION OF PIPE SHALL ALWAYS BE INSTALLED BETWEEN THE GATE VALVE AND HYDRANT.



FIRE HYDRANT ASSEMBLY

W-17

02/10/16

SITE AND ZONING TABULATIONS

PROPOSED IMPROVEMENT: RIGHT-OF-WAY IMPROVEMENTS ONLY
 NO CHANGE TO USE FROM A ZONING DISTRICT STANDPOINT

GENERAL NOTES

- OWNER/DEVELOPER: WILLARD CONSTRUCTION OF ROANOKE VALLEY, LLC
ATTN: RONALD L. WILLARD, II
13247 BOOKER T. WASHINGTON HIGHWAY
HARDY, VIRGINIA 24101
(540) 721-5288
- TOPOGRAPHY DATA BASED ON A FIELD SURVEY BY LUMSDEN ASSOCIATES, P.C.
- A TITLE REPORT WAS NOT FURNISHED FOR THIS PROPERTY.
- THE ADJOINING PROPERTY ON THESE PLANS IS TO BE ACCESSED BY PRIVATE ROADS FROM BOOKER T. WASHINGTON HIGHWAY (VA ROUTE #122).
- THIS PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS DESIGNATED BY FEMA. THIS OPINION IS BASED ON AN INSPECTION OF THE FLOOD INSURANCE RATE MAP AND HAS BEEN FIELD VERIFIED. SEE COMMUNITY PANEL MAP # 51067C 0230 D, DATED JANUARY 6, 2010.

CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT FRANKLIN COUNTY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND THE ENGINEER OF ANY CHANGES OR CONDITIONS ATTACHED TO PERMITS OBTAINED FROM ANY AUTHORITY ISSUING PERMITS.
- NO SUBSURFACE SOIL REPORTS HAVE BEEN FURNISHED TO THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- SEE VDOT ROAD AND BRIDGE STANDARDS FOR CONCRETE CURB AND STORM DRAINAGE DETAILS.
- THE CONTRACTOR AND/OR OWNER SHALL PROVIDE A STORAGE CONTAINER FOR TEMPORARY STORAGE AND DISPOSAL OF LAND CLEARANCE DEBRIS AND BUILDING MATERIALS. ON-SITE BURIAL OF MATERIAL SHALL NOT BE PERMITTED.

GRADING NOTES

- AREAS TO BE GRADED SHALL BE CLEARED OF ALL VEGETATION, STRUCTURES, AND OTHER PHYSICAL FEATURES IN PREPARATION FOR GRADING.
- TOPSOIL SHALL BE REMOVED FROM THE CLEARED AREA AND STOCKPILED FOR FUTURE USE.
- FILL MATERIAL SHALL BE FREE FROM ORGANIC MATTER OR AS SPECIFIED BY GEOTECHNICAL ENGINEER/REPORT AND ROCKS LARGER THAN 6 INCHES IN DIAMETER.
- FILL MATERIAL SHALL BE PLACED AND COMPACTED IN EIGHT (8) INCH LOOSE LIFTS AND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698, STANDARD PROCTOR OR AS SPECIFIED BY GEOTECHNICAL ENGINEER/REPORT. MAINTAIN MOISTURE CONTENT OF FILL MATERIAL WITHIN THREE (3) PERCENT OF OPTIMUM TO ATTAIN REQUIRED COMPACTION DENSITY.
- A QUALIFIED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE OF VIRGINIA, SHOULD BE CONSULTED CONCERNING SOIL STABILITY, SLOPE STABILIZATION, SOIL COMPACTION, TESTING, AND OTHER SOIL CHARACTERISTICS. LUMSDEN ASSOCIATES ASSUMES NO RESPONSIBILITY OR LIABILITY RELATING TO FAILURES RESULTING FROM SAME.

WESTERN VIRGINIA WATER AUTHORITY WATER AND SEWER NOTES

- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE WESTERN VIRGINIA WATER AUTHORITY (WVWA) AVAILABLE AT WWW.WESTERNVAVATER.ORG OR BY CONTACTING THE AUTHORITY AT 540-853-5700. THE PROJECT SHALL ALSO COMPLY WITH THE GOVERNING JURISDICTION'S STANDARDS AND OTHER AGENCY STANDARDS (E.G., VDOT, DEQ, DCR, VDH, ETC.) WHERE APPLICABLE.
- A MINIMUM COVER OF THREE (3) FEET IS REQUIRED ON ALL WVWA WATER AND SEWER LINES.
- ALL EXISTING UTILITIES MAY NOT BE SHOWN IN THEIR EXACT LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AND SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN THE AREAS OF CONSTRUCTION PRIOR TO STARTING WORK.
- PLEASE SHOW ALL WVWA WATER AND SEWER UTILITIES ON ANY DEVELOPMENT PLAN.
- THE LOCATION OF EXISTING UTILITIES ACROSS OR ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL ON HIS OWN INITIATIVE AND AT NO EXTRA COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AND POTHOLES AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. ALL DAMAGE INCURRED TO EXISTING UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- PLAN APPROVAL BY THE WVWA DOES NOT REMOVE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ANY EXISTING CONFLICTS DURING CONSTRUCTION.
- ALL PRIVATE UTILITY CONSTRUCTION, I.E. PIPING, VALVES, HYDRANTS, METERS AND BOXES, CLEAN OUTS, SANITARY SEWER MANHOLES, BEDDING, ETC. SHALL COMPLY WITH THE CURRENT VIRGINIA UNIFORM STATEWIDE BUILDING CODE (INCLUDING AMENDMENTS).
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" CLEARANCE VERTICALLY AND TWO (2) FOOT MINIMUM HORIZONTALLY FROM THE OUTSIDE OF PIPE TO OUTSIDE OF PIPE WITH ALL OTHER UNDERGROUND UTILITIES. WHERE THIS CANNOT BE ACHIEVED, ADDITIONAL MEASURES IN ACCORDANCE WITH WVWA STANDARDS SHALL BE ENFORCED.
- ALL UTILITY GRADE ADJUSTMENTS SHALL BE IN ACCORDANCE WITH WVWA STANDARDS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- FIELD CHANGES SHALL BE SUBMITTED BY THE ENGINEER OF RECORD TO THE LOCALITY AND APPROVED BY THE WVWA. PRIOR TO REQUESTING SUBSTANTIAL COMPLETION INSPECTION BY THE WVWA, THE DEVELOPER MUST SUBMIT AS BUILTS FOR REVIEW AND APPROVAL.

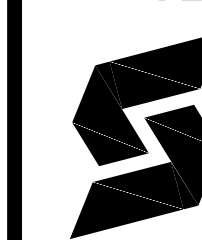
ABBREVIATIONS

VAR.	EXIST.	PROPOSED
EX.	EXISTING	
D.B.	DEED BOOK	
P.B.	PLAT BOOK	
P.C.	PAGE	
INST. #	INSTRUMENT NUMBER	
TYP.	TYPICAL	
HOR.	HORIZONTAL	
VERT.	VERTICAL	
RCF	REINFORCED CONCRETE PIPE	
SD	STORM DRAIN	
SDCO	STORM DRAIN CLEANOUT	
SDMH	STORM DRAIN MANHOLE	
SS	SANITARY SEWER	
SSMH	SANITARY SEWER MANHOLE	
W	WATER LINE	
SP	SPOT ELEVATION	
EP	EDGE OF PAVEMENT	
HP	HIGH POINT	
BW	BOTTOM OF WALL	
TW	TOP OF WALL	
CO	SANITARY SEWER CLEANOUT TO BE REMOVED	
TBR		

LEGEND

ITEM	EXISTING	PROPOSED
PAVEMENT (STANDARD)		
PAVEMENT (GRAVEL)		
CONCRETE		
STORM DRAIN LINE	EX SD	SD
STORM DRAIN MANHOLE		
SANITARY SEWER LINE	SS	SS
WATERLINE	W	W
UTILITY POLE	UT	UT
OVERHEAD ELECTRIC LINE	OHE	OHE
OVERHEAD TELEPHONE LINE	OHT	OHT
INDEX CONTOURS	1020	1020
INTERMEDIATE CONTOURS	1018	1018
UNDERGROUND FIBER	FO	FO
UNDERGROUND TELEPHONE	UT	UT
UNDERGROUND GAS	GAS	GAS
OVERHEAD ELECTRIC	OHE	OHE
SPOT ELEVATION	+1021.5	SP=1021.5

Lumsden Associates, P.C.
 ENGINEERS | SURVEYORS | PLANNERS



4664 BRAMBLETON AVENUE
 P.O. BOX 26699
 ROANOKE, VIRGINIA 24018

NOTES AND DETAILS

ROUTE 122 TURN LANE IMPROVEMENTS
 FOR
 WESTLAKE TOWNE CENTER
 PREPARED FOR
 WILLARD CONSTRUCTION
 OF ROANOKE VALLEY INC.
 GILLS CREEK MAGISTERIAL DISTRICT
 FRANKLIN COUNTY, VIRGINIA

REVISIONS	DESCRIPTION	DATE	NO.
1			
2			
3			
4			
5			

DATE: November 28, 2022
 SCALE:

AS SHOWN
 COMMISSION NO:

22-114
 SHEET 2 OF 9