

PROJECT LOCATION MAP



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INDEX OF SHEETS

- L-1 COVER SHEET
- L-2 GENERAL NOTES
- L-3 DEMOLITION, LAYOUT AND MATERIALS PLAN
- L-4 DETAILS



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Notice: All Landowners, Developers and Contractors

FAILURE TO COMPLY WITH THE CONSTRUCTION PROCEDURE REQUIREMENTS LISTED BELOW MAY RESULT IN THE COSTLY REMOVAL OF STRUCTURES, TIME DELAYS OR THE ISSUANCE OF A STO WORK ORDER.

CONSTRUCTION PROCEDURE REQUIREMENTS

1. RIGHT OF WAY EXCAVATION PERMIT - PRIOR TO THE COMMENCEMENT OF ANY DIGGING, ALTERATION OR CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY (STREETS, ALLEYS, PUBLIC EASEMENTS), A RIGHT OF WAY EXCAVATION PERMIT SHALL BE APPLIED FOR AND OBTAINED BY THE CONTRACTOR FROM THE CITY OF ROANOKE.
2. PLANS AND PERMITS - A COPY OF THE PLANS AS APPROVED BY THE CITY (SIGNED BY THE PROPER CITY OFFICIALS) AND ALL PERMITS ISSUED BY THE CITY SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES OF ONGOING CONSTRUCTION.
3. LOCATION OF UTILITIES - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
4. CONSTRUCTION ENTRANCE - THE CONTRACTOR SHALL INSTALL AN ADEQUATE CONSTRUCTION ENTRANCE FOR ALL CONSTRUCTION RELATED EGRESS FROM THE SITE. SIZE AND COMPOSITION OF CONSTRUCTION ENTRANCE SHALL BE AS SHOWN ON THE PLANS.
5. STREETS TO REMAIN CLEAN - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE PUBLIC STREET ADJACENT TO THE CONSTRUCTION ENTRANCE REMAINS FREE OF MUD, DIRT, DIST, AND/OR ANY TYPE OF CONSTRUCTION MATERIALS OR LITTER AT ALL TIMES.
6. BARRICADES/DITCHES - THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXCAVATED DITCHES AND SHALL FURNISH AND ENSURE THAT ALL BARRICADES PROPER AND NECESSARY FOR THE SAFETY OF THE PUBLIC ARE IN PLACE.
7. SEWER AND PAVEMENT REPLACEMENT - CONSTRUCTION OF SANITARY SEWERS AND THE REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH APPROVED STANDARDS AND SPECS OF THE CITY OF ROANOKE AND THE WESTERN VIRGINIA WATER AUTHORITY.
8. APPROVED PLANS/CONSTRUCTIONS CHANGES - ANY CHANGE OR VARIATION FROM CONSTRUCTION DESIGN AS SHOWN ON THE OFFICIALLY APPROVED PLANS SHALL BE APPROVED BY THE EROSION AND SEDIMENT CONTROL AGENT PRIOR TO SAID CHANGES OR VARIATION IN CONSTRUCTION BEING MADE.
9. FINAL ACCEPTANCE / CITY - THE OWNER OR DEVELOPER SHALL FURNISH THE CITY OF ROANOKE'S PLANNING BUILDING AND DEVELOPMENT DEPARTMENT WITH A FIELD SURVEYED FINAL CORRECT SET OF AS-BUILT PLANS OF THE NEWLY CONSTRUCTED STORM RAIN AND/OR STORMWATER MANAGEMENT FACILITIES PRIOR TO FINAL ACCEPTANCE AND ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE CITY.

PROJECT NAME

*5TH AND CHURCH
 SIDEWALK IMPROVEMENTS*

CITY ENGINEERING PLAN NUMBER: _____

CITY PLANNING NUMBER: _____

REVISION BY	DESCRIPTION:	DATE

APPROVED FOR CONSTRUCTION

ROANOKE CITY ENGINEER	DATE
DIRECTOR OF PUBLIC WORKS	DATE
DIRECTOR OF UTILITIES AND OPERATIONS	DATE
	DATE
	DATE

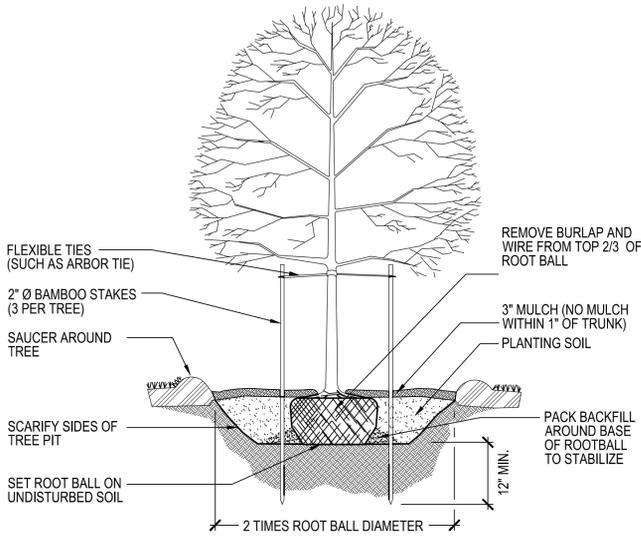
ADVERTISED DATE: 7/2/2015

SET NUMBER: _____

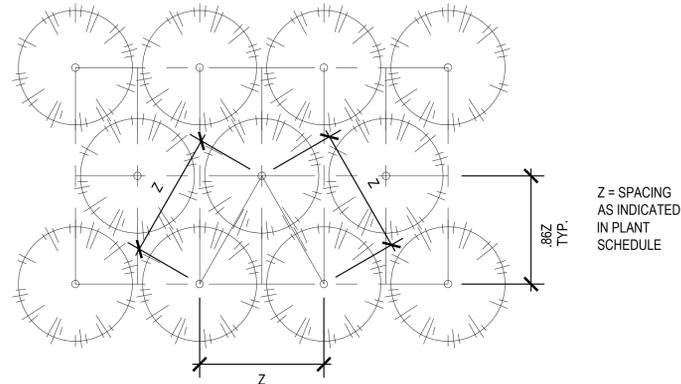
SHEET NUMBER: 1 OF 4

PLAN NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE THE CITY OF ROANOKE STANDARDS AND SPECIFICATIONS AND THE VDOT R&B SPECS, VDOT R&B STANDARDS, THE VIRGINIA WORK AREA PROTECTION MANUAL, THE VIRGINIA E&S CONTROL HANDBOOK, THE MUTCD, THE STANDARD OF HIGHWAY SIGNS BOOK, AND THESE PLANS.
- TESTING, AS REQUIRED PER THE SPECIFICATIONS, SHALL BE PROVIDED BY THE CONTRACTOR'S INDEPENDENT LABORATORY REPRESENTATIVE AND SHALL BE IN ACCORDANCE WITH VDOT SPECIFICATIONS UNLESS OTHERWISE NOTED.
- EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND DO NOT REPRESENT ALL UTILITIES OR SERVICE LINES. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT THE PERTINENT UTILITY COMPANIES AND/OR UTILITY LOCATING SERVICES TO HAVE ALL UNDERGROUND UTILITIES LOCATED AND MARKED. THE CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING UTILITIES DURING CONSTRUCTION. WHERE PROPOSED IMPROVEMENTS, DRAINAGE CULVERTS, OR GRADING IS FOUND TO BE IN CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATIONS WITH THE APPROPRIATE UTILITY OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF SECTION 59.1 - 406 ET SEQ. OF THE CODE OF VIRGINIA (OVERHEAD HIGH VOLTAGE LINE SAFETY ACT.)
- THE CONTRACTOR SHALL FURNISH AND INSTALL SIGNAGE IN ACCORDANCE WITH THESE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD HIGHWAY SIGNS BOOK, AND VDOT SPECIFICATIONS LATEST ED.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC.
- THE CONSTRUCTOR IS RESPONSIBLE FOR SAFETY ON THE PROJECT. EXCAVATION SHALL NOT BE LEFT OPEN OVERNIGHT UNLESS APPROVED BY THE ENGINEER.



1 TYPICAL TREE PLANTING
Scale: NTS



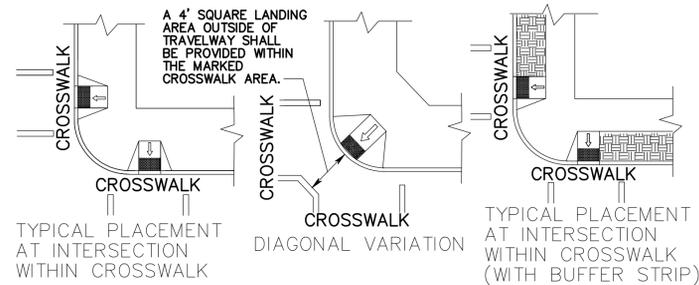
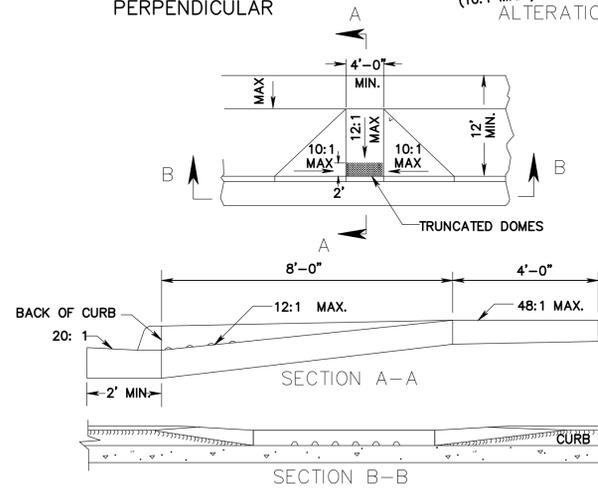
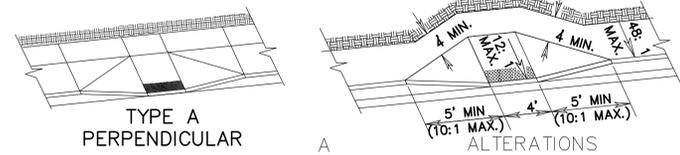
2 TYPICAL GROUNDCOVER PLANTING
Scale: NTS

LEGEND

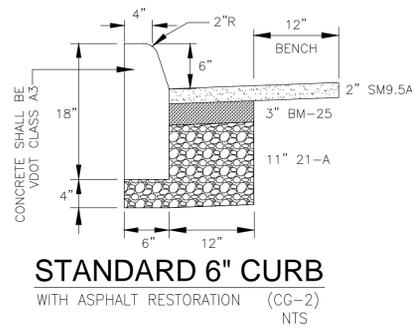
	EXISTING	PROPOSED
CONTOUR	--- 900 ---	--- 900 ---
STORM DRAIN	--- SD --- SD ---	--- SD --- SD ---
WATER LINE	--- W --- W ---	--- W --- W ---
SANITARY SEWER	--- SAN --- SAN ---	--- SAN --- SAN ---
GAS LINE	--- GAS --- GAS ---	--- GAS --- GAS ---
RAILROAD		
GUARDRAIL	-----	-----
WOODS
FENCE	--- X --- X ---	--- X --- X ---
FIBER OPTIC	--- FIBER --- FIBER ---	--- FIBER --- FIBER ---
PETROLEUM	--- PETRO ---	--- PETRO ---
WETLAND	--- WETLAND ---	---
EDGE OF PAVEMENT	-----	-----
OVERHEAD ELECTRIC	---	---
UNDERGROUND ELECTRIC	--- UGE --- UGE ---	--- UGE --- UGE ---
OVERHEAD CABLE	--- OHC --- OHC ---	--- OHC --- OHC ---
UNDERGROUND CABLE	--- UGC --- UGC ---	--- UGC --- UGC ---
OVERHEAD TELEPHONE	--- OHT --- OHT ---	--- OHT --- OHT ---
UNDERGROUND TELEPHONE	--- UGT --- UGT ---	--- UGT --- UGT ---
PROPERTY BOUNDARY	-----	-----
CENTERLINE	-----	-----

ABBREVIATIONS

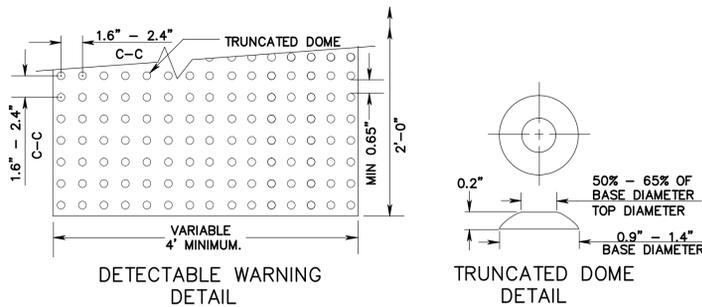
CL = CENTERLINE	PVC = POLYVINYL CHLORIDE
ELEV = ELEVATION	HDPE = HIGH DENSITY POLYETHYLENE
EL = ELEVATION	BLDG = BUILDING
FG = FINISHED GRADE	CRNR = CORNER
EG = EXISTING GROUND	PROP = PROPOSED
RCP = REINFORCED CONCRETE PIPE	CO = CLEANOUT
CMP = CORRUGATED METAL PIPE	WSE = WATER SURFACE ELEVATION
INV IN = INVERT IN	HP = HIGH POINT
INV OUT = INVERT OUT	TYP = TYPICAL
FF = FINISHED FLOOR	MH = MANHOLE
PUE = PUBLIC UTILITY EASEMENT	SD = STORM DRAIN
CONC = CONCRETE	MAX = MAXIMUM
MIN = MINIMUM	EXST = EXISTING
CB = CATCH BASIN	EXIST = EXISTING
DI = DROP INLET	PVMT = PAVEMENT
DIA = DIAMETER	LF = LINEAR FEET
W/ = WITH	APPROX = APPROXIMATELY
RR = RAILROAD	SDMH = STORM DRAIN MANHOLE
ROW = RIGHT OF WAY	LW = LIMIT OF WORK
ø = DIAMETER	MECH = MECHANICAL
WVWA = WESTERN VIRGINIA WATER AUTHORITY	N = NORTHING
VDOT = VIRGINIA DEPARTMENT OF TRANSPORTATION	E = EASTING
DCR = VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION	TOC = TOP OF CURB ELEVATION
	BOC = BOTTOM OF CURB ELEVATION
	FH = FIRE HYDRANT
	PSI = POUNDS PER SQUARE INCH
	PSF = POUNDS PER SQUARE FOOT
	GPM = GALLONS PER MINUTE
	FT = FOOT, FEET
	IN = INCH, INCHES
	NO. = NUMBER
	OC = ON CENTER
	R = RADIUS
	SAN = SANITARY SEWER



3 ADA CURB RAMP
L-1 L-2
NTS



1 STANDARD 6" CURB
L-1 L-2
NTS



TYPE B PARALLEL APPLICATION

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	4	6
1	5	7
2	5	8
3	6	9
4	8	12
5	10	15
6	14	15

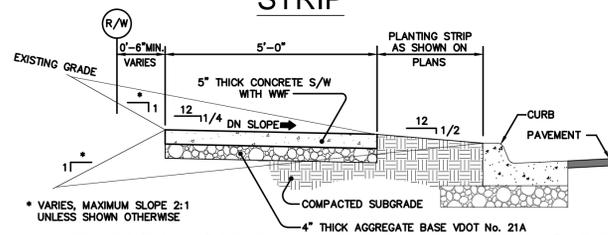
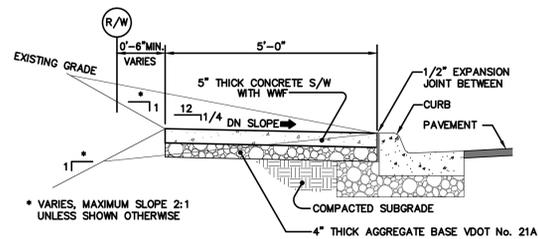
TYPE C PARALLEL & PERPENDICULAR APPLICATION

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	2	4
1	2	5
2	3	5
3	3	6
4	4	8
5	5	10
6	7	14
7	13	15
8	15	15

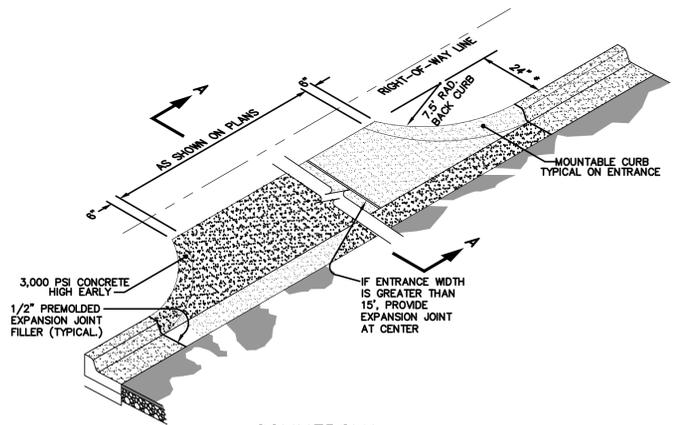
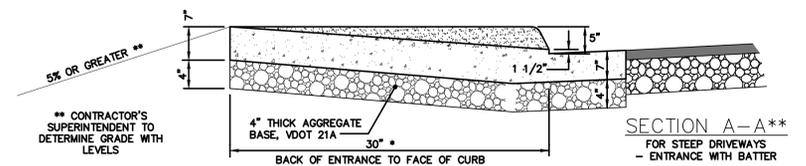
NOTE:
THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

NOTES:

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY CAST IRON TRUNCATED DOMES PLATE, POWDER-COATED RED.
2. SLOPING SIDES OF CURB RAMP SHALL BE POURED MONOLITHICALLY WITH RAMP FLOOR.
3. CURB RAMPS ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED AT INTERSECTIONS WHEREVER AN ACCESSIBLE ROUTE WITHIN THE RIGHT OF WAY OF A HIGHWAY FACILITY CROSSES A CURB REGARDLESS OF WHETHER SIDEWALK IS EXISTING, PROPOSED, OR NONEXISTENT. THEY MUST BE LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER, AND SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES. EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. ACCESSIBLE ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED, STABLE, FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.
4. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
5. MINIMUM RAMP THICKNESS IS 7".
6. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.



2 TYPICAL SIDEWALK WITH AND WITHOUT PLANTING STRIP
L-1 L-2
NTS

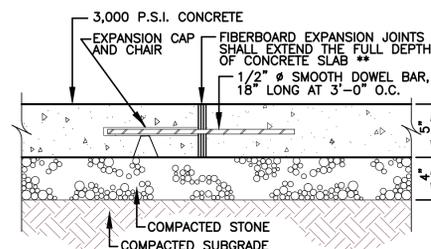


GENERAL NOTES:

1. * DENOTES WHEN ENTRANCE IS CROSSING A SIDEWALK, THE CONTRACTOR SHALL EXTEND BACK OF ENTRANCE TO FRONT EDGE OF THE SIDEWALK. OTHERWISE USE A MINIMUM IS 24".
2. SIDEWALKS THROUGH ENTRANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL A-A. MINIMUM 7" THICK WITH 3,000 PSI HIGH EARLY CONCRETE.

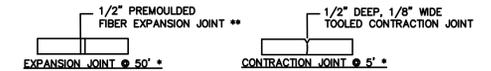
4 CONCRETE COMMERCIAL APRON
L-1 L-2
NTS

NOTE: EXPANSION MATERIAL SHALL BE PLACED AROUND ALL UTILITY POLES & NEW CONCRETE CONSTRUCTION.



EXPANSION JOINT

NOTE:
** FIBERBOARD SHALL BE TRIMMED TO ALLOW FOR SEALANT. SEE PROJECT MANUAL SPECIFICATIONS FOR THE REQUIRED USE OF SEALANT.



JOINT DETAILS

NOTE:
* UNLESS PLAN SHOWS OR SPECIFIES OTHERWISE.
** FIBERBOARD SHALL BE TRIMMED TO ALLOW FOR SEALANT. SEE PROJECT MANUAL SPECIFICATIONS FOR THE REQUIRED USE OF SEALANT.