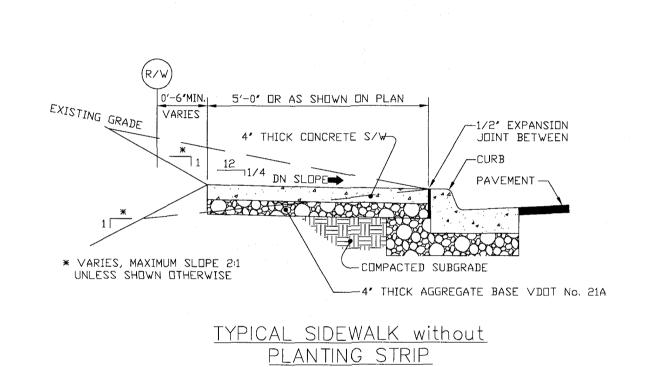
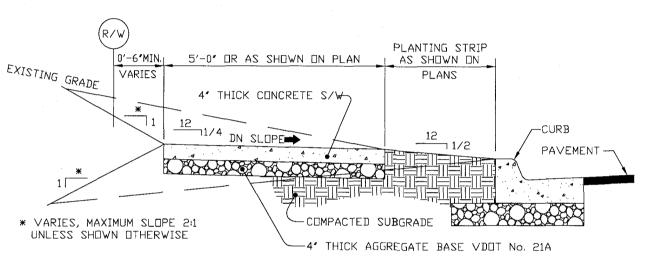
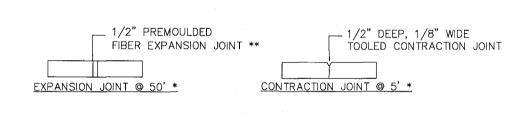


## STEEL PIPE BOLLARD DETAIL





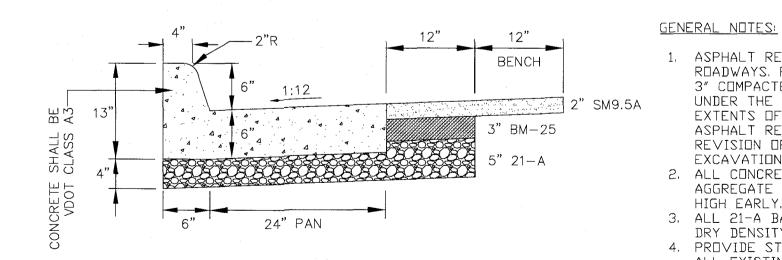
TYPICAL SIDEWALK with PLANTING STRIP



## CITY OF ROANOKE PUBLIC SIDEWALK AND JOINT DETAILS

## JOINT DETAILS

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

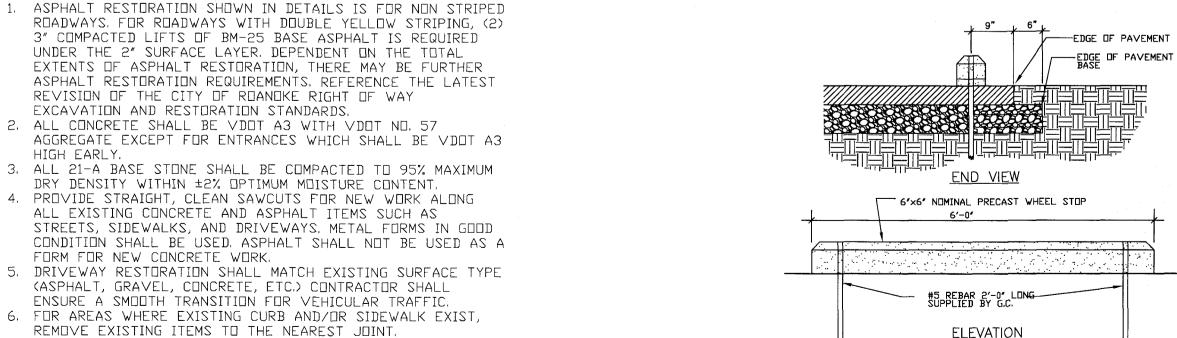


## CITY OF ROANOKE PUBLIC STANDARD 6" CURB AND GUTTER

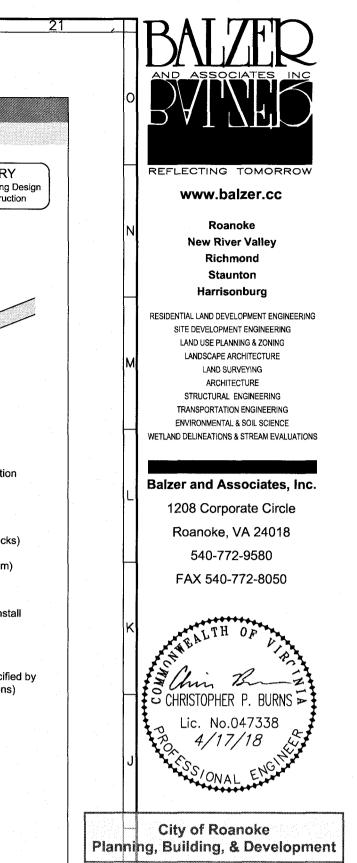
WITH ASPHALT RESTORATION (CG-6)NTS

AGGREGATE EXCEPT FOR ENTRANCES WHICH SHALL BE VDOT A3 HIGH EARLY. 3. ALL 21-A BASE STONE SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY WITHIN ±2% OPTIMUM MOISTURE CONTENT. 4. PROVIDE STRAIGHT, CLEAN SAWCUTS FOR NEW WORK ALONG ALL EXISTING CONCRETE AND ASPHALT ITEMS SUCH AS STREETS, SIDEWALKS, AND DRIVEWAYS, METAL FORMS IN GOOD CONDITION SHALL BE USED, ASPHALT SHALL NOT BE USED AS A FORM FOR NEW CONCRETE WORK.

DRIVEWAY RESTORATION SHALL MATCH EXISTING SURFACE TYPE (ASPHALT, GRAVEL, CONCRETE, ETC.) CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION FOR VEHICULAR TRAFFIC 6. FOR AREAS WHERE EXISTING CURB AND/OR SIDEWALK EXIST,



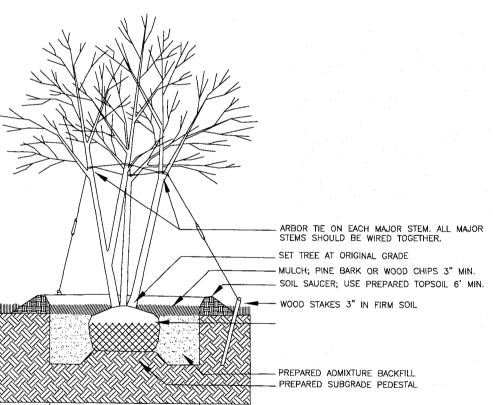
### LOAD CONDITION C 1:2.5 BACK SLOPE, NO LIVE LOAD SURCHARGE, NO TOE SLOPE **3 BLOCK HIGH SECTION** (1) 28" (710 mm) Block (1) 41" (1030 mm) Block Professional Engineering Design Required for Construction (1) 60" (1520 mm) Block Grade to drain surface water away from wall. Drainage swale required. Setback = 1 \( \frac{5}{8} \)" (41 mm) (5° Wall Batter Angle) Move blocks forward during installation to engage shear knobs (Typical) Infill stone (No. 57 or equivalent) 4'-0" (1.22 m) Fill between adjacent blocks (all blocks) Fill vertical core slot (PC blocks) Stone to extend at least 12" (305 mm) behind blocks. \_ 0'-6" (152 mm) Backfill per design requirements. Install in lifts and compact per project specifications. ∠ 0'-6" (152 mm) Non-woven geotextile fabric (If specified by Engineer based on site soil conditions) Drain (As specified by Engineer) - Middle block (Typical) Solid bottom block Leveling pad (As specified by Engineer) This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site. Final wall design must address both internal and external drainage and all modes of wall stability. **Preliminary Wall Section** ROVED BY: J. Johnson Silty Sand or Clayey Sand, $\phi$ = 28° 1:2.5 Back Slope, No Live Load Surcharge, No Toe Slope 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 1 of 1 C\_28\_B\_60\_54\_cad.dwg



COMPREHENSIVE DEVELOPMENT PLAN

APPROVED

by Adrian Gilbert 02/11/2019



- THIN BRANCHES BY 1/3 RETAINING NORMAL

CREATE SAUCER WITH TOPSOIL 6" MIN.

TAMPED ADMIXTURE BACKFILL

2X BALL DIA. MIN.

SHRUB PLANTING DETAIL

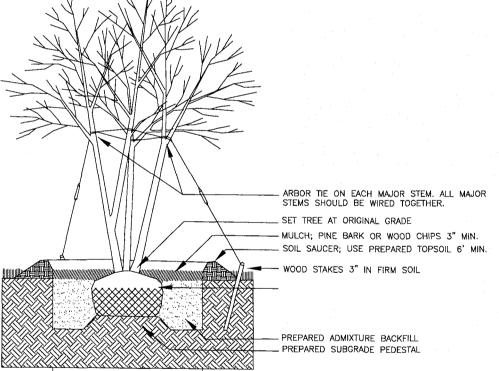
**ELEVATION** 

CONCRETE BUMPER BLOCK DETAIL

NO SCALE

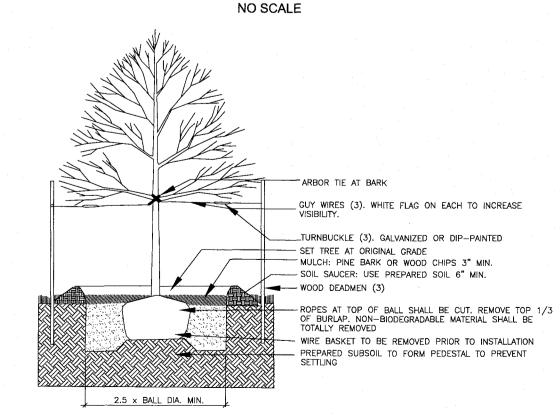
ROPES AT TOP OF BALL SHALL BE CUT. REMOVE TOP 1/3 OF BURLAP. NON—BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED. — GENTLY COMPACT TOPSOIL MIXTURE.

ROPES AT TOP OF BALL SHALL BE CUT. REMOVE TOP 1/3 OF BURLAP. NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED.



## MULTI-STEM PLANTING DETAIL

2X BALL DIA. MIN.



## DEC. TREE PLANTING DETAIL NO SCALE

# **DETAIL**( DRAWN BY DESIGNED BY BTC CHECKED BY CPB 2/9/2018

SCALE

**REVISIONS:** 

3/20/2018

4/17/2018

AS SHOWN

SHEET NO.