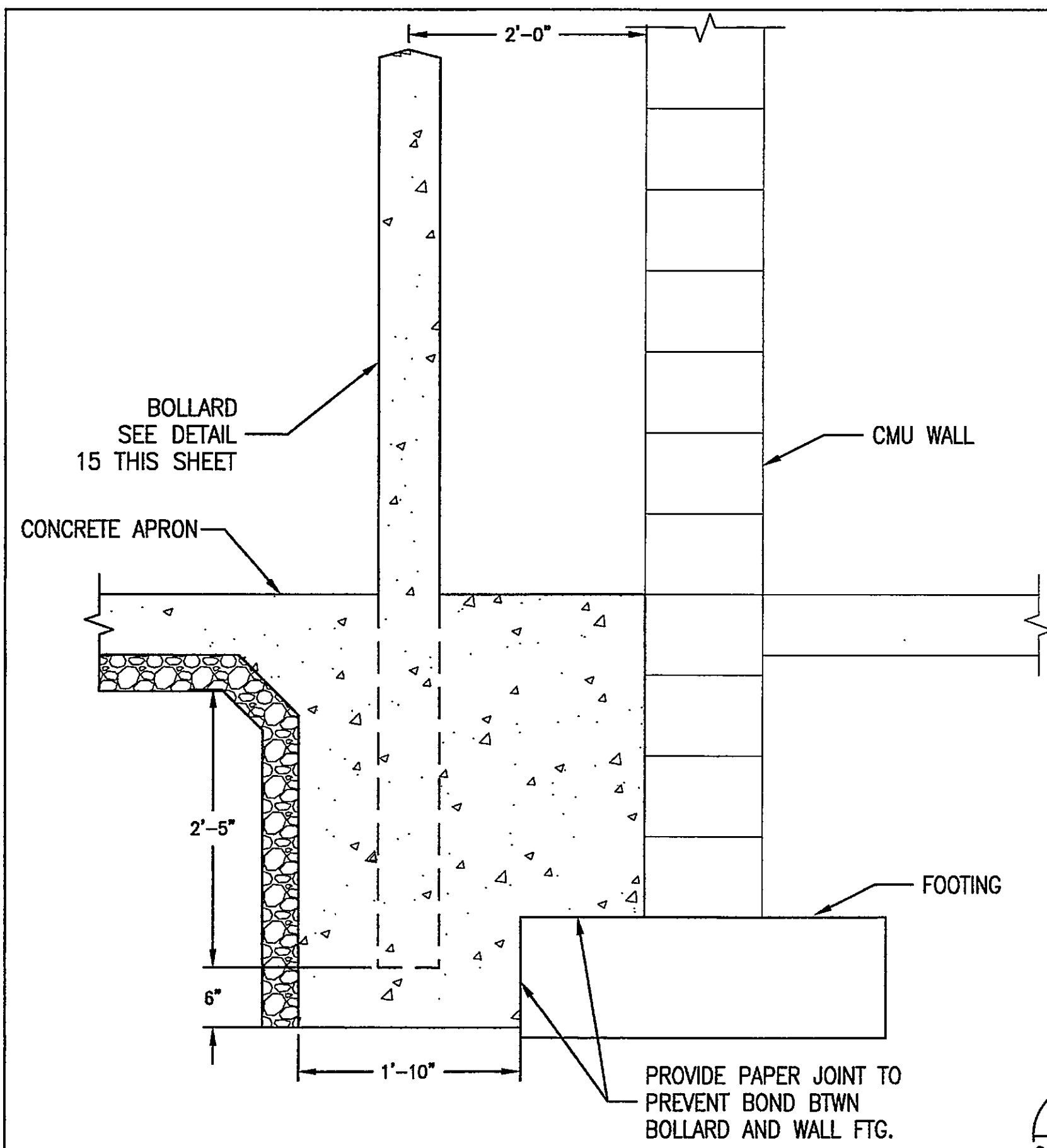
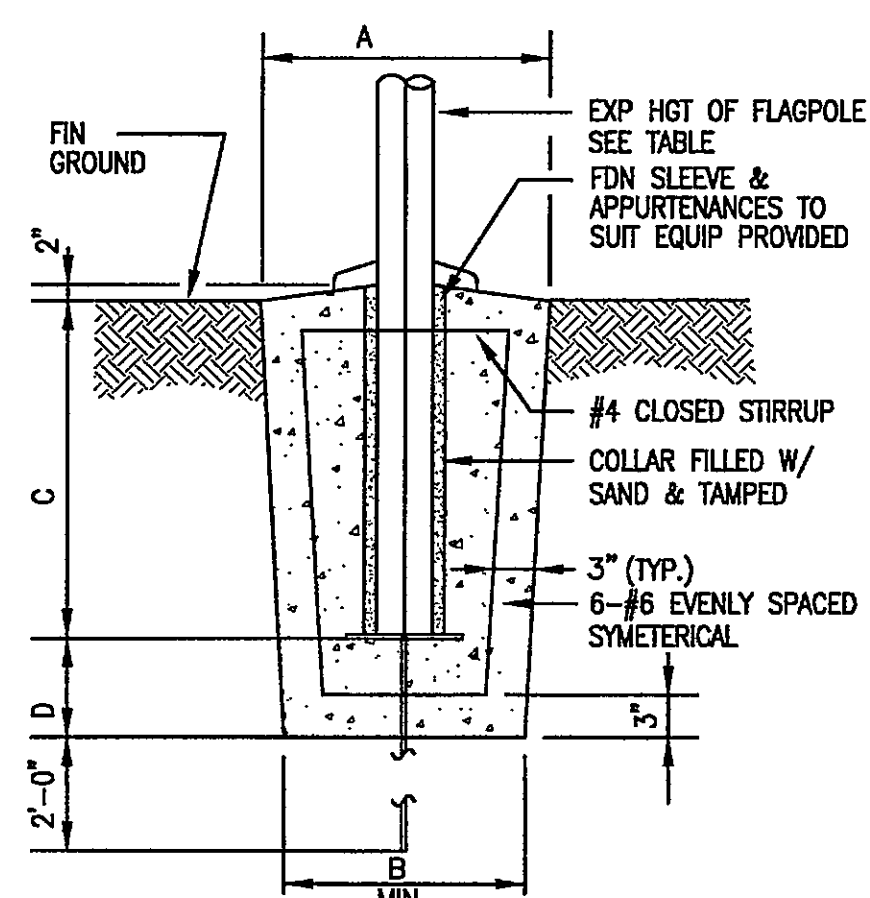


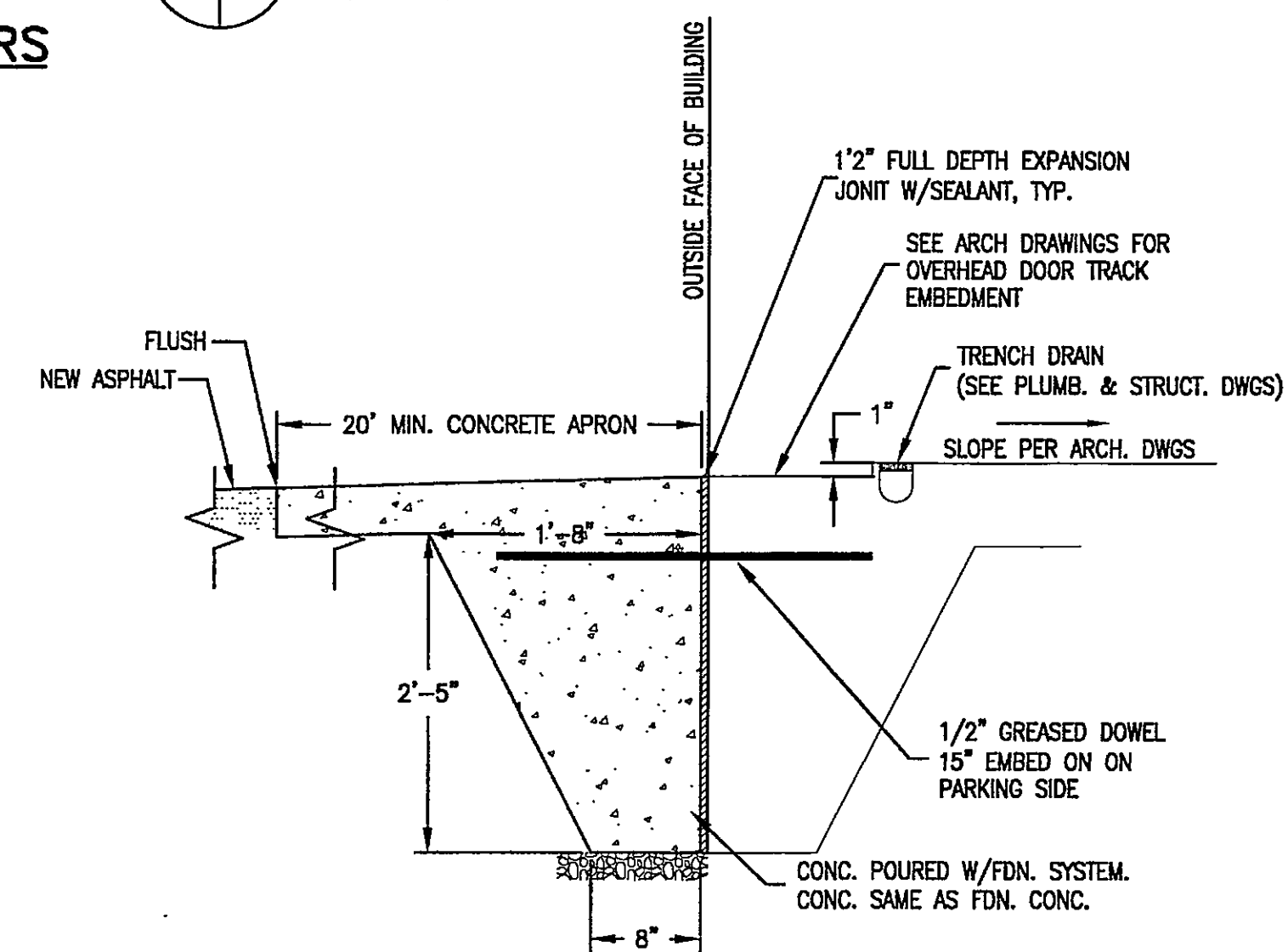


15 BOLLARD SECTION AT OVERHEAD DOORS
C102 C501 NO SCALE

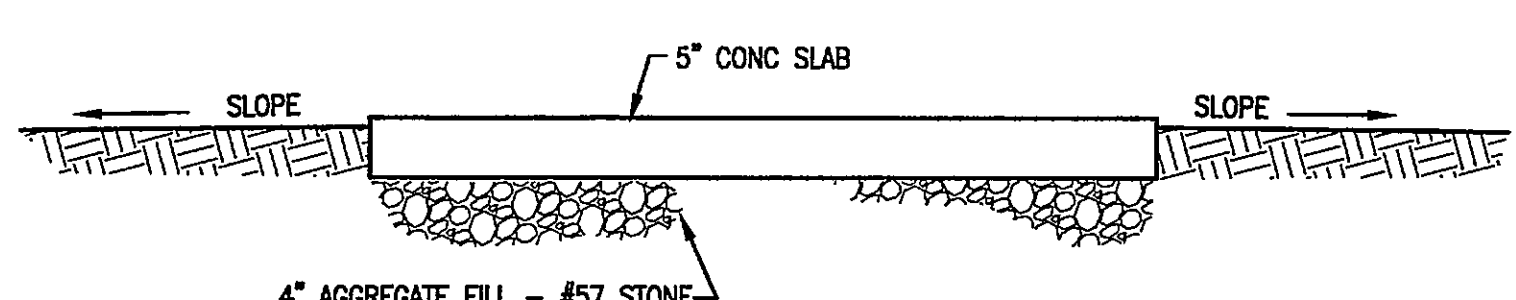
STANDARD FOUNDATION DIMENSIONS					
FLAGPOLE HEIGHT	TUBE LENGTH	A	B	C	D
20'	36"	30"	24"	36"	6"
25'	36"	30"	24"	36"	6"
30'	36"	36"	30"	36"	6"
35'	42"	42"	36"	42"	6"
40'	48"	48"	42"	48"	6"
45'	48"	48"	42"	48"	6"
50'	60"	60"	54"	60"	6"
60'	60"	60"	54"	60"	6"
70'	84"	84"	76"	84"	6"
80'	96"	84"	76"	96"	6"



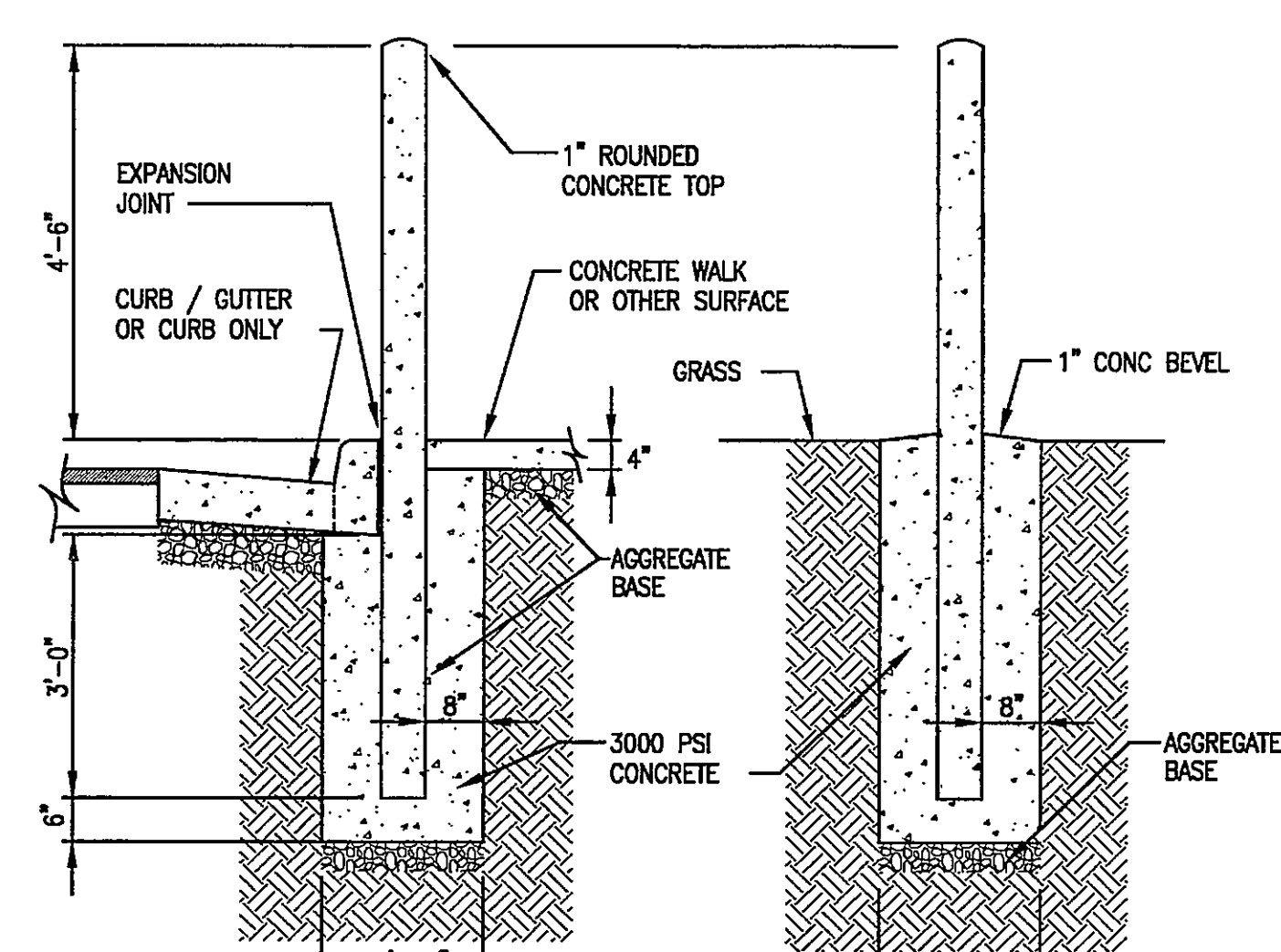
11 FLAGPOLE FOUNDATION DETAIL
C102 C501 NO SCALE



12 CONC APRON SECTION AT OVERHEAD DOORS
C102 C501 NO SCALE

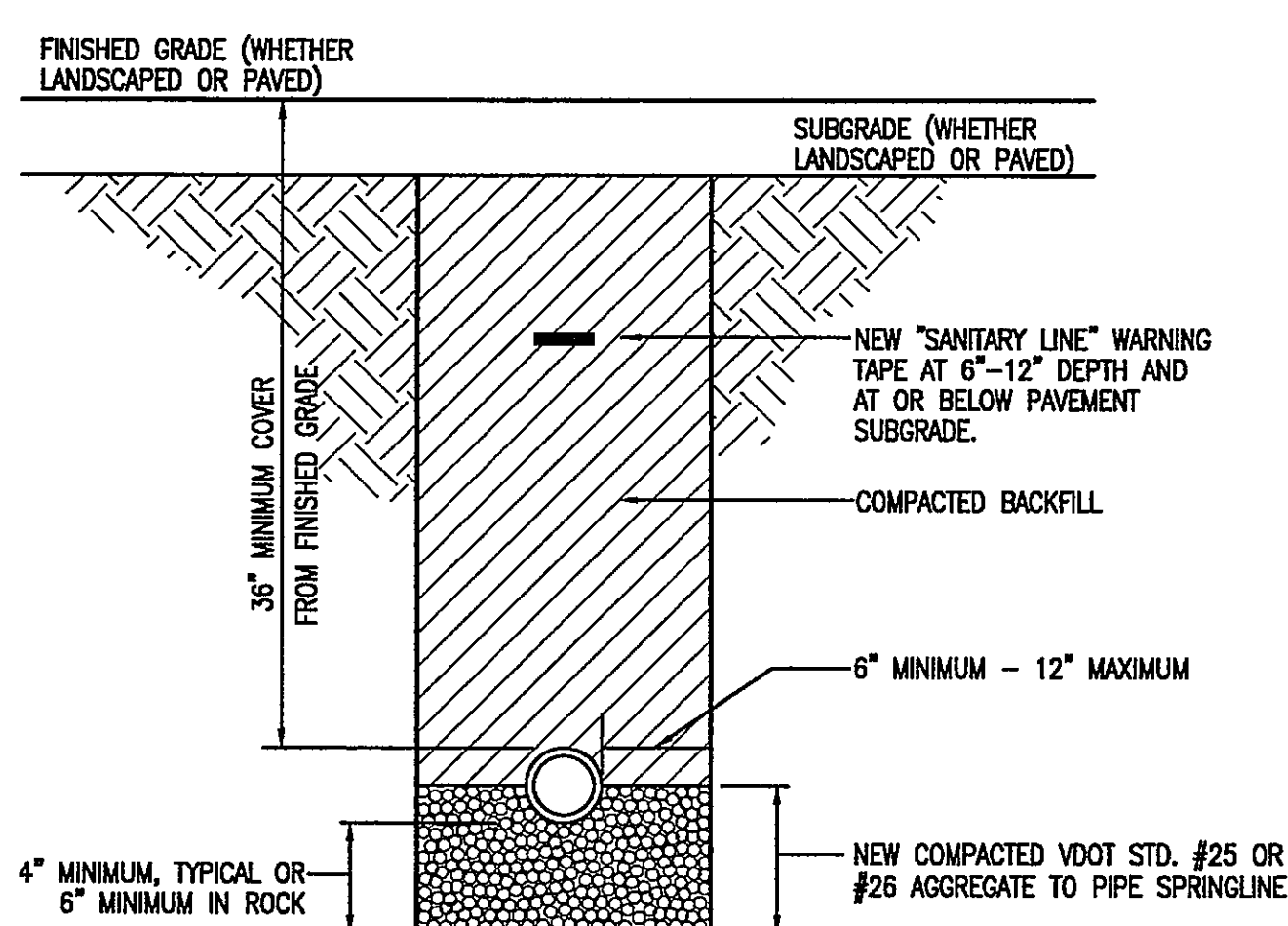


13 TYPICAL SECTION - CONCRETE SIDEWALK
C102 C501 NO SCALE

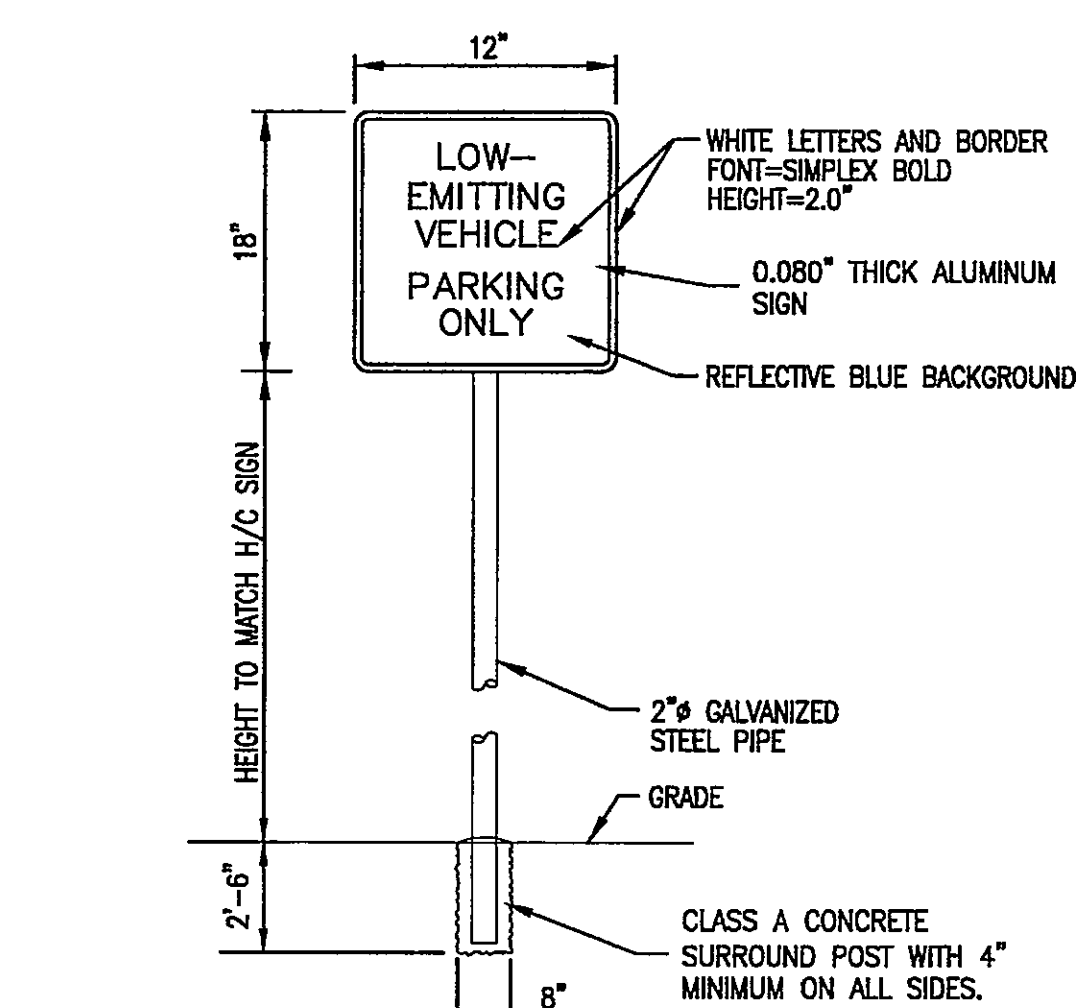


14 CURB AND GUTTER TRAFFIC BOLLARD DETAIL (6" DIA)
C102 C501 NO SCALE

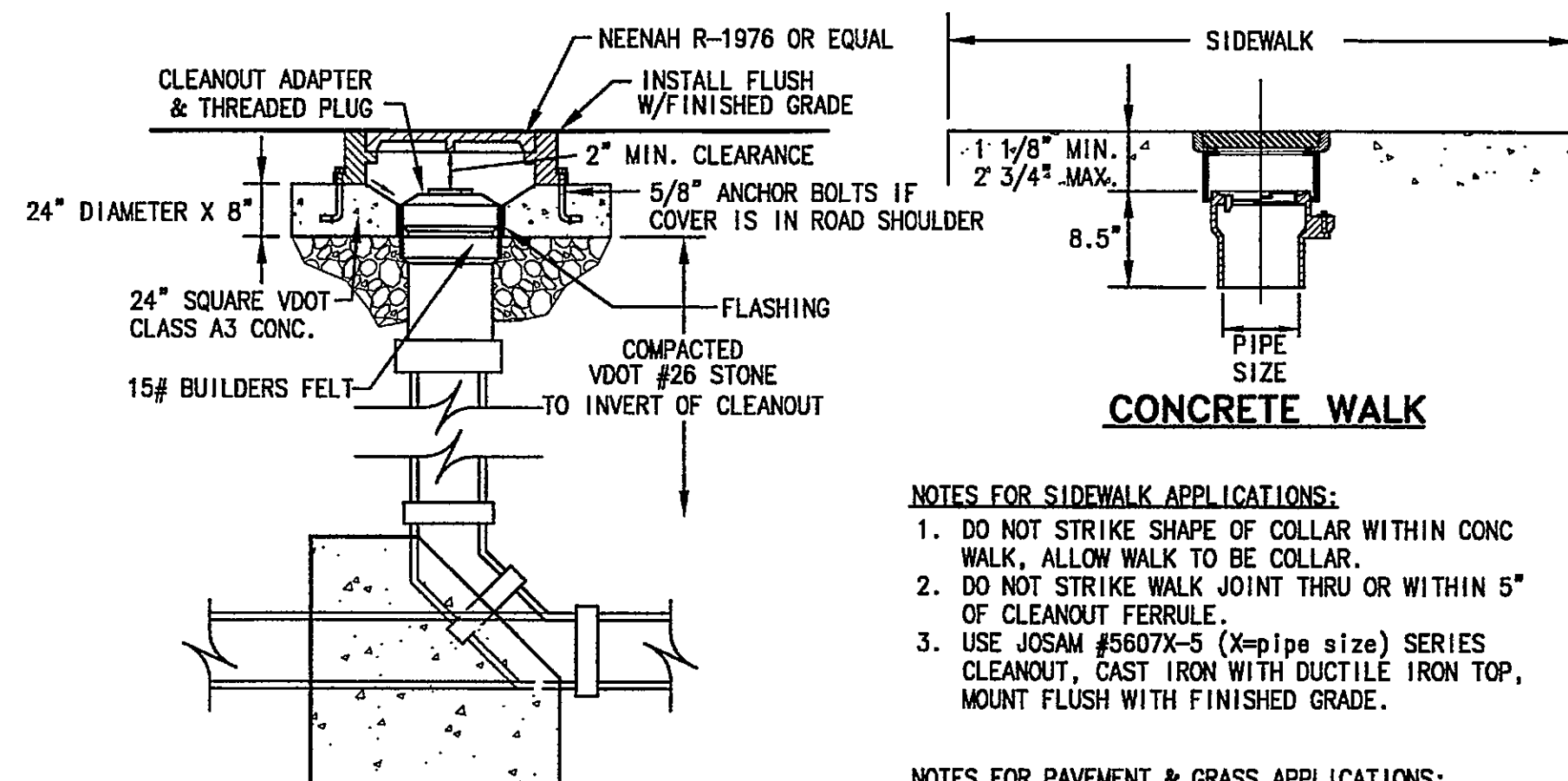
NOTE:
6" DIAMETER SCH 40 STEEL PIPE BOLLARD FILLED WITH 3000 PSI CONCRETE. PAINT WITH RUST PROHIBITIVE PRIMER AND ENAMEL. PAINT CONCRETE @ TOP, DON'T PAINT @ BASE



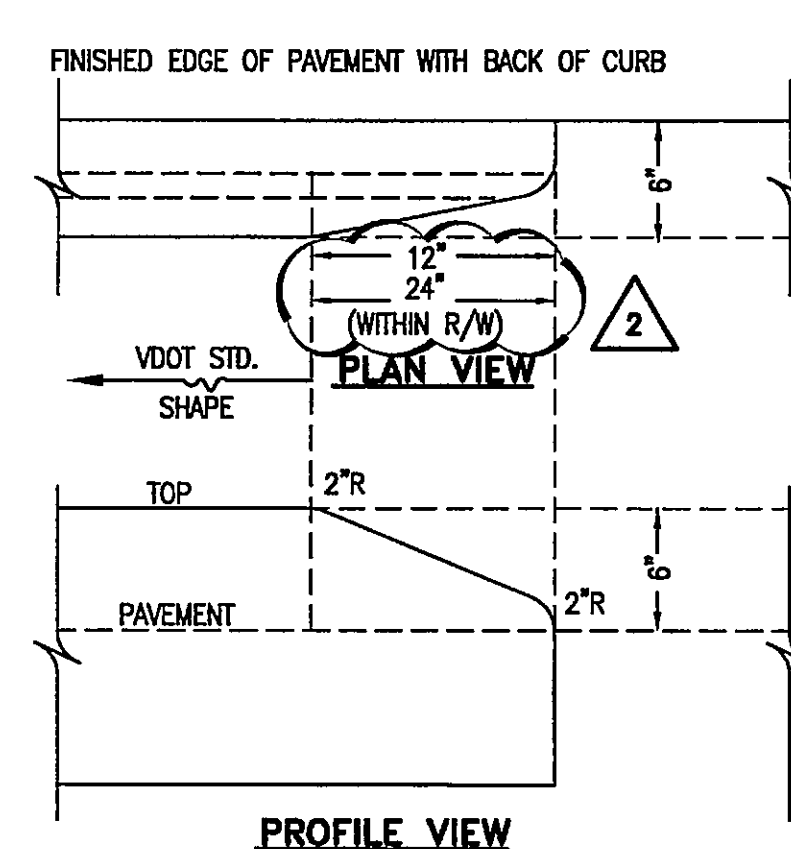
9 NEW SANITARY LINE TRENCH SECTION
C103 C501 NO SCALE



10 LOW EMITTING VEHICLE SIGN
C102 C501 NO SCALE

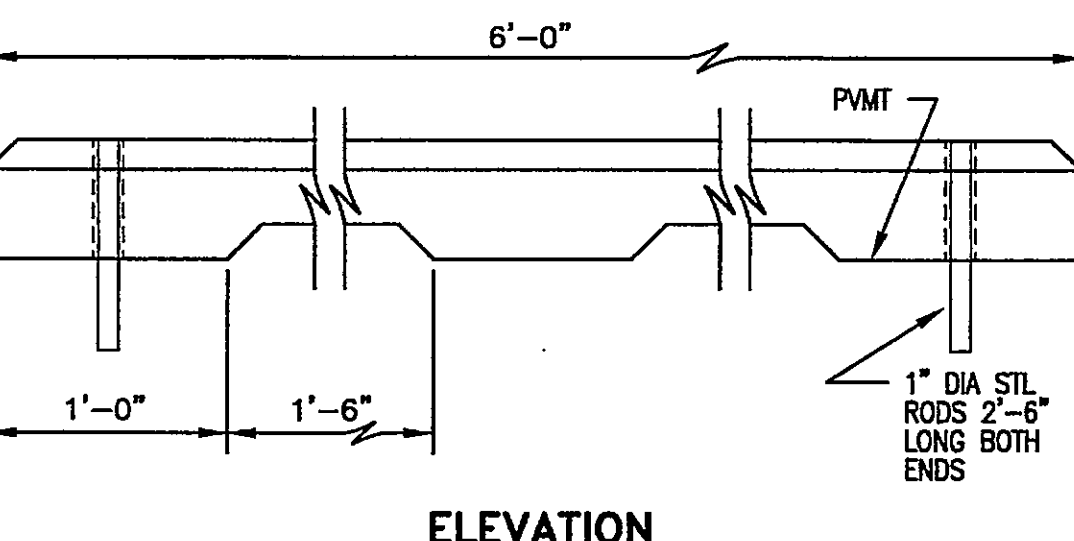


7 CLEANOUT DETAIL
C103 C501 NO SCALE

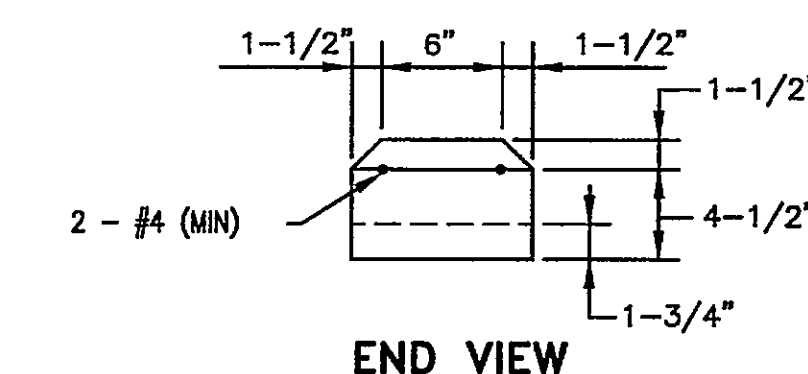


8 WIPE DOWN CURB
C102 C501 NO SCALE

NOTES:
1. VDOT CG-2 OR CG-6 (CURB PORTION).
2. SEE PAVEMENT DETAIL FOR TYPE OF BEDDING.

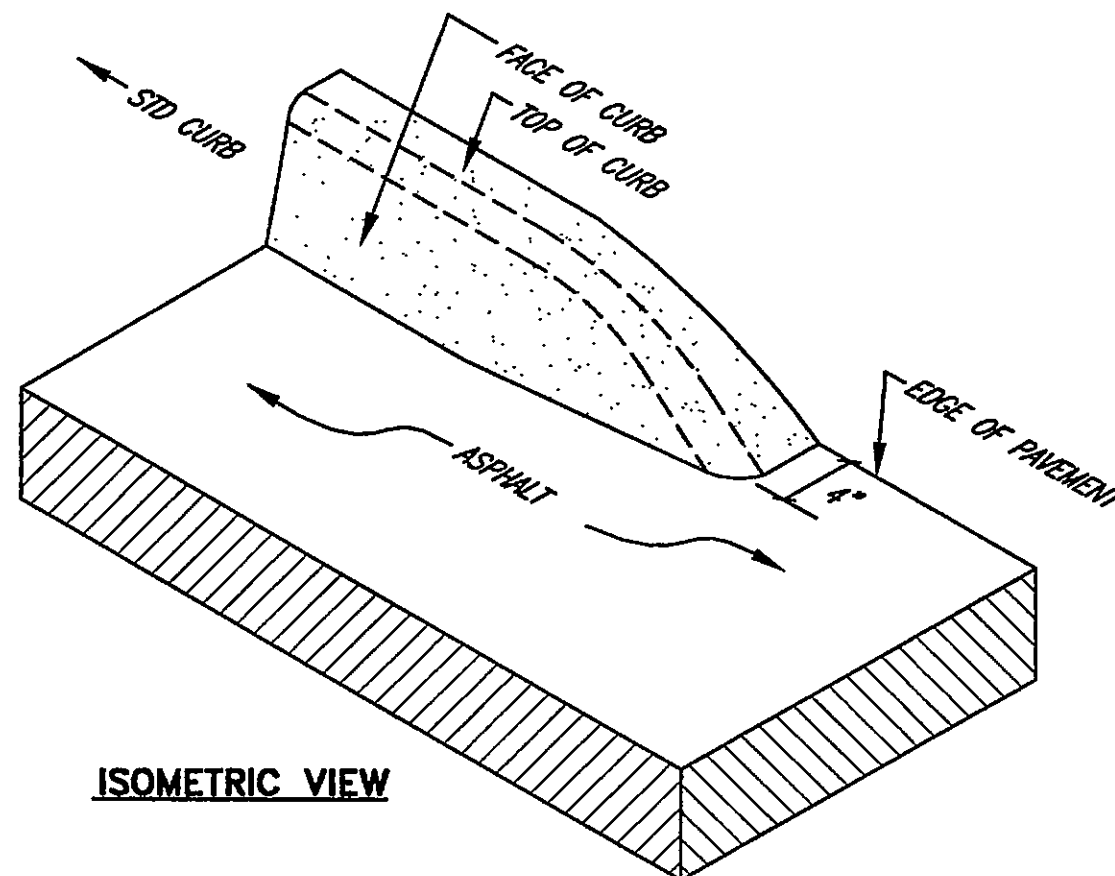


5 TYPICAL EQUIPMENT PAD
C103 C501 NO SCALE APPLICABLE ONLY WHERE NOT SPECIFIED ELSEWHERE



6 PRECAST WHEEL STOP
C102 C501 NO SCALE

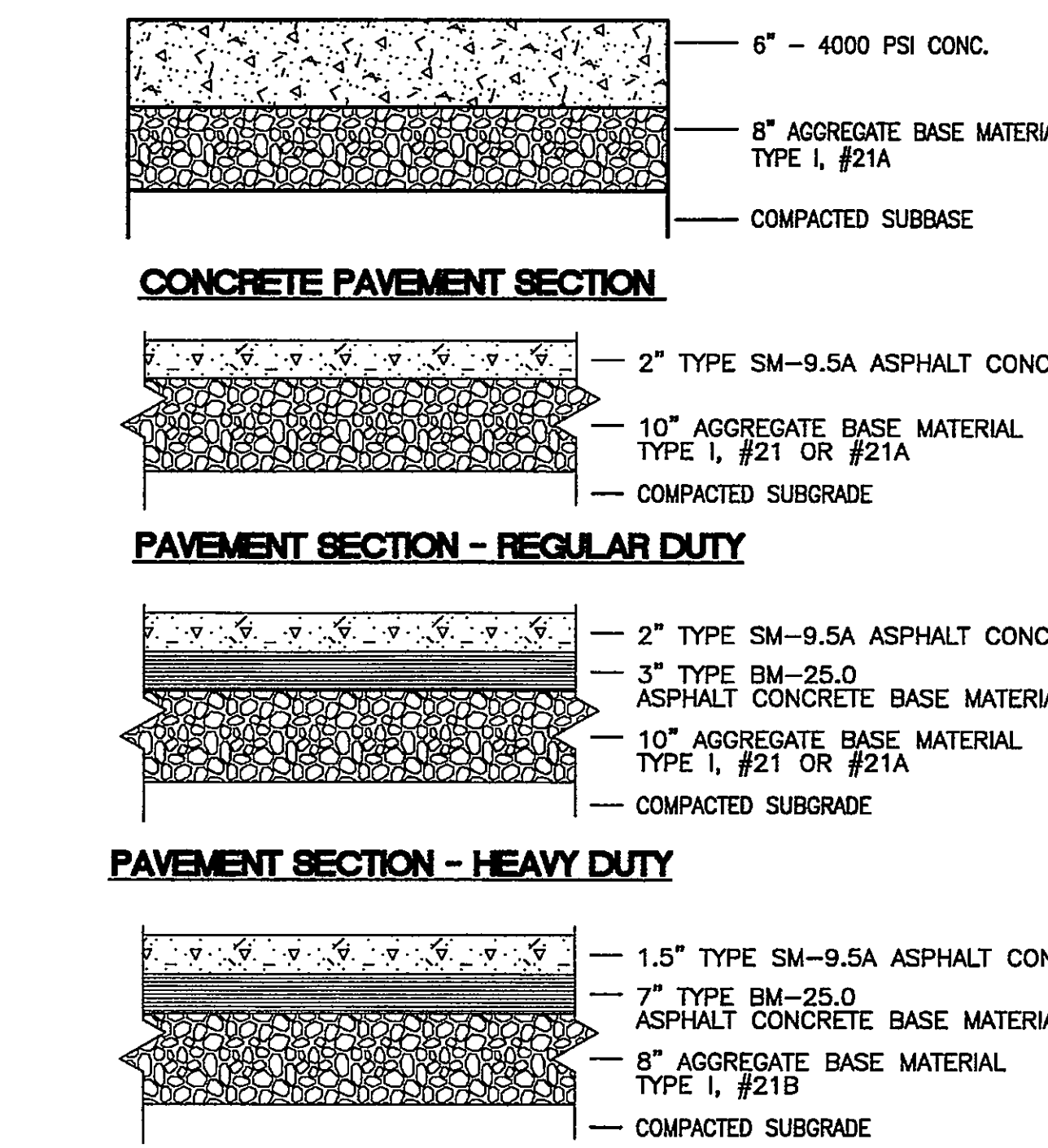
NOTES FOR SIDEWALK APPLICATIONS:
1. DO NOT STRIKE SHAPE OF COLLAR WITHIN CONC WALK, ALLOW WALK TO BE COLLAR.
2. DO NOT STRIKE WALK JOINT THRU OR WITHIN 5" OF CLEANOUT FERRULE.
3. USE JOSEPH #5607X-5 (X=pipe size) SERIES CLEANOUT, CAST IRON WITH DUCTILE IRON TOP, MOUNT FLUSH WITH FINISHED GRADE.
NOTES FOR PAVEMENT & GRASS APPLICATIONS:
1. FOR INSTALLATION WITHIN EXISTING PAVEMENT, PATCH SHALL MATCH EXISTING PAVEMENT SECTION UNLESS PRIME AND SEAL THEN USE SM-9.5A PATCH (3" MIN).
2. PVC CLEANOUT WITH 10" NEENAH R-1976 TRAFFIC BEARING CLEANOUT FRAME AND COVER, OR APPROVED EQUAL.



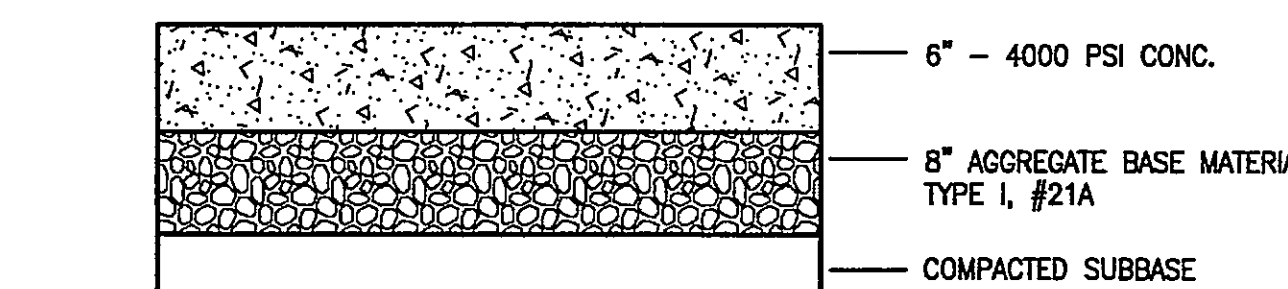
4 NEW STORM LINE TRENCH SECTION
C104 C501 NO SCALE

3 CG-2 CURBING
C102 C501 NO SCALE

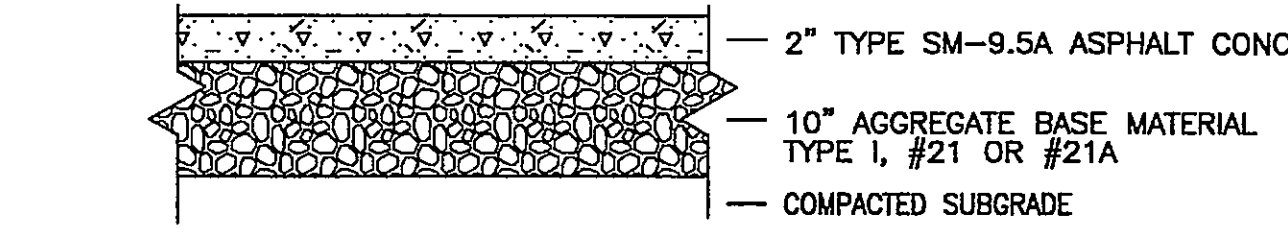
2 PAVEMENT SECTIONS
C102 C501 NO SCALE



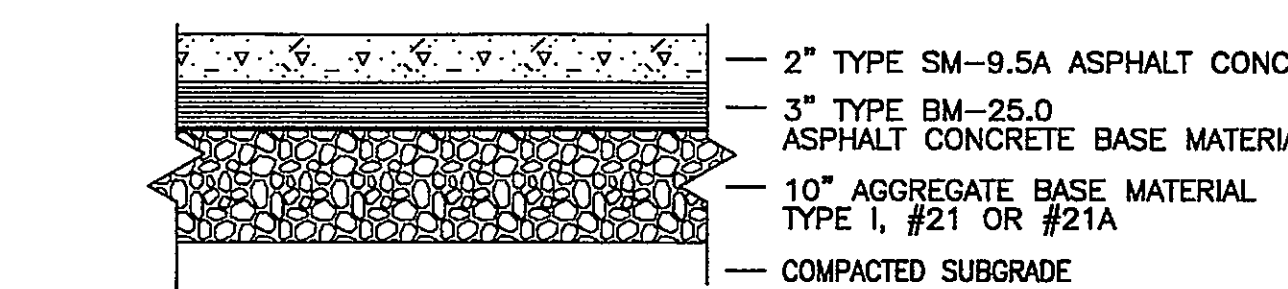
1 BIKE PARKING DETAIL
C102 C501 NO SCALE



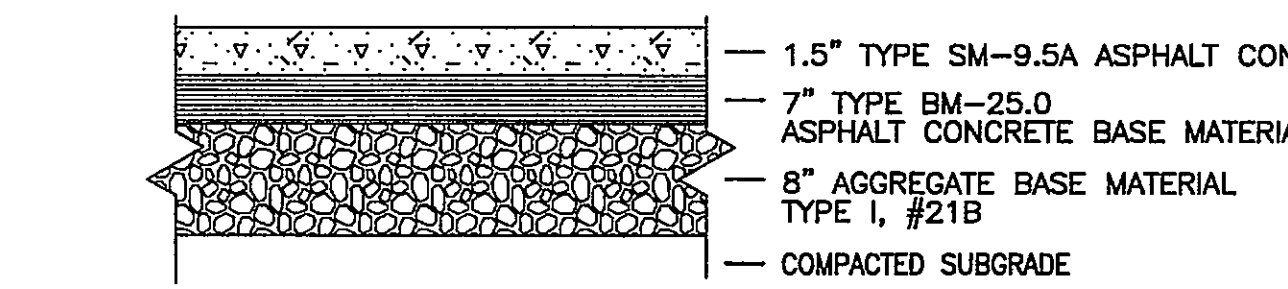
CONCRETE PAVEMENT SECTION



PAVEMENT SECTION - REGULAR DUTY

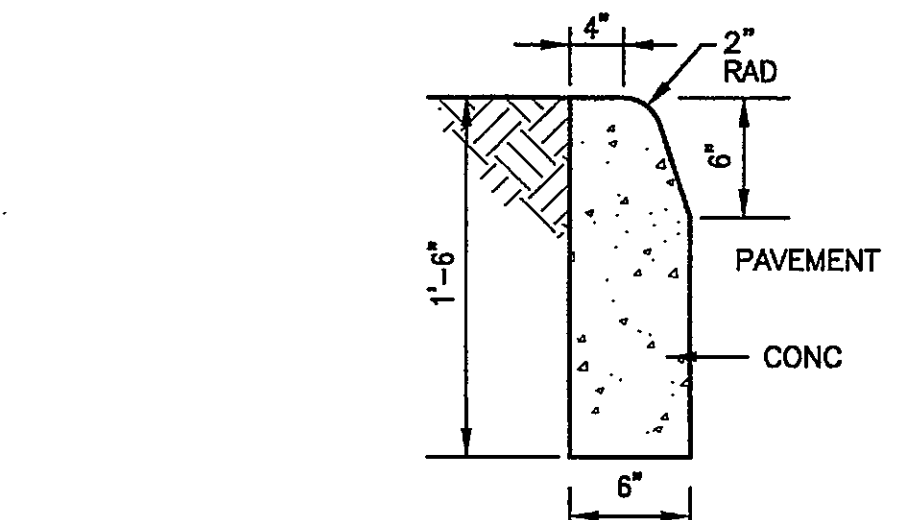


PAVEMENT SECTION - HEAVY DUTY

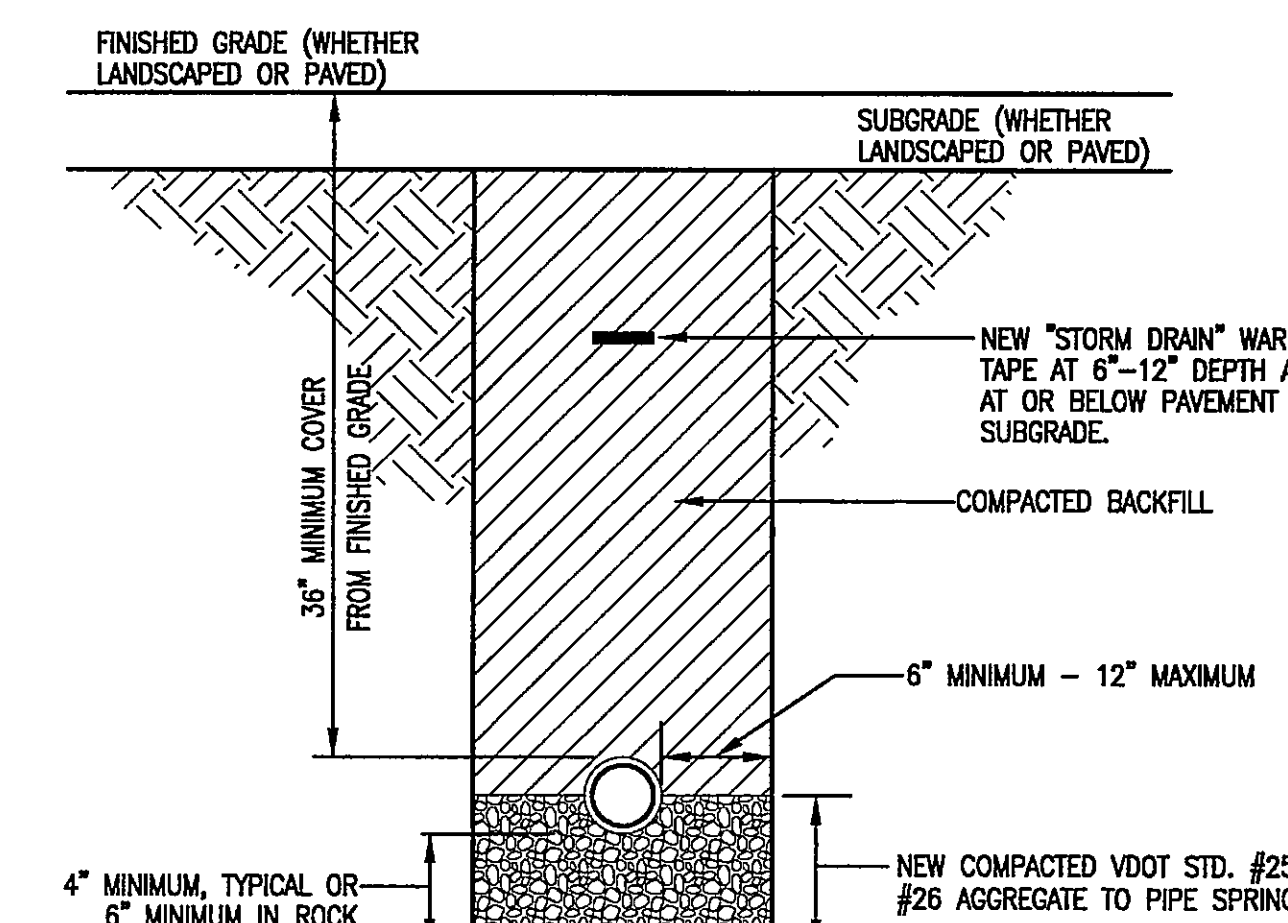


PAVEMENT SECTION - WITHIN VDOT RIGHT-OF-WAY

2 PAVEMENT SECTIONS
C102 C501 NO SCALE

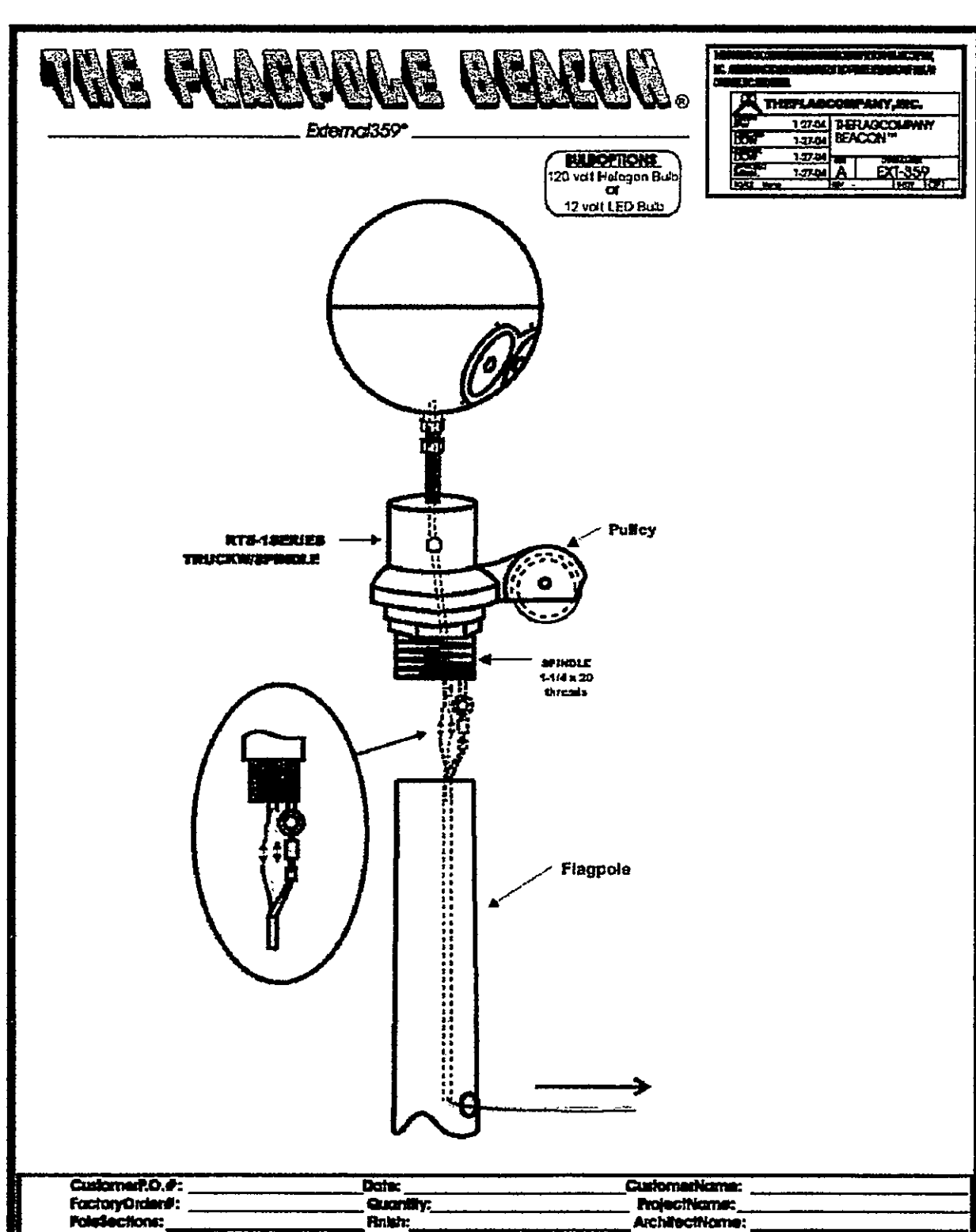


3 CG-2 CURBING
C102 C501 NO SCALE



4 NEW STORM LINE TRENCH SECTION
C104 C501 NO SCALE

UNLESS DEFINED ELSEWHERE BY SPECS (BOUND OR ON PLAN SHEETS), BACKFILL AND SELECT BACKFILL SHALL BE AS APPROVED BY THE GEOTECHNICAL ENGINEER.



THE FLAGPOLE BEACON

External Installation Instructions

Installation should be performed by a qualified electrician. All wiring must comply with state and local codes.

*** Retro fit beacon- skip steps 2 & 10**

*** New pole installation - start at step 2**

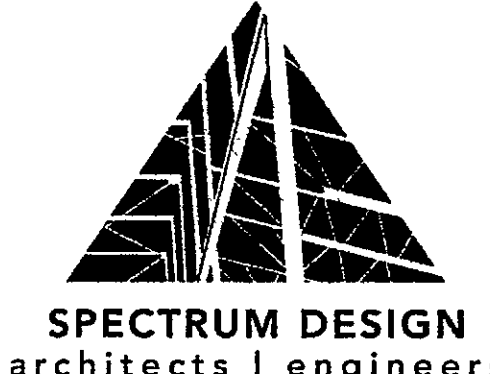
1. Drill 11/16" dia. hole in flagpole at ground level. (Flash collar will hide wire)
2. Dig a 3" or 4" trench from ground sleeve to power supply, and then drill a 11/16" hole to line up with the 3" or 4" trench.
3. Remove eye bolt from strain relief on wire, and place eye bolt thru eyelet of ground wire (green).
4. Thread eye bolt into hole in bottom of Flagpole Beacon.
5. Connect wires (black to black, white to white), and insert wire into top of flagpole.
6. Attach Beacon to pole.
7. Using solid copper wire, make a small hook on one end that will pass through the 11/16" hole in bottom of flagpole.
8. Insert hook into flagpole & pull wire through, leaving some slack. Run wire through grommet and secure to pole.
9. Erect flagpole.
10. Install necessary conduit into foundation sleeve. (check local codes)

Bulb Changing Instructions

1. Disconnect power from beacon.
2. Loosen retainer clips (3) using a phillips head screwdriver while holding bulbs in place.
3. Remove bulbs from sockets. (Caution: glass can break causing injury).
4. Carefully insert new bulbs making sure not to apply too much pressure.
5. Tighten clips back into place evenly.

NOTE: It is strongly recommended that both bulbs be replaced at the same time.

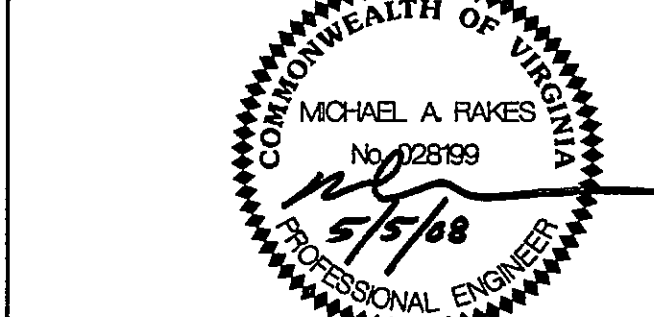
16 FLAGPOLE BEACON
C102 C501 NO SCALE



10 CHURCH AVE SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011 540.342.6001
ROANOKE • MARION

FLEET SERVICE CENTER
ROANOKE COUNTY
5253 Old Hollins Rd
Roanoke, VA 24019
IFB-0898

SPECTRUM DESIGN PROJECT NO. 06118



DATE: March 23, 2008
DESIGN ARCHITECT: WWH
PROJECT ARCHITECT: WWH
CHECKED BY: MAF
DRAWN BY: MF
REVISIONS: NUMBER DATE
VDOT COMMENTS: 1 5/5/08

SHEET TITLE
CONSTRUCTION DETAILS

C501