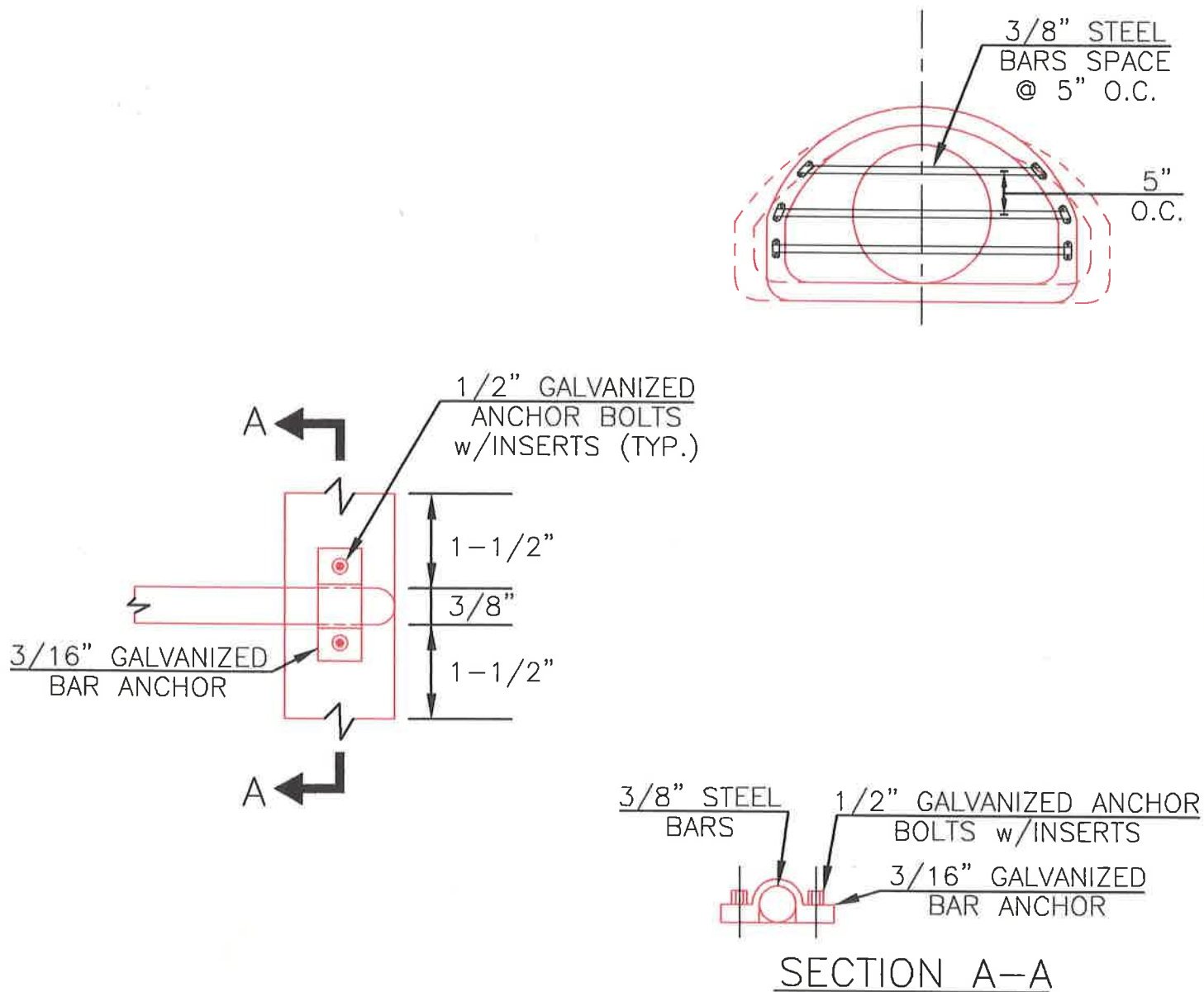




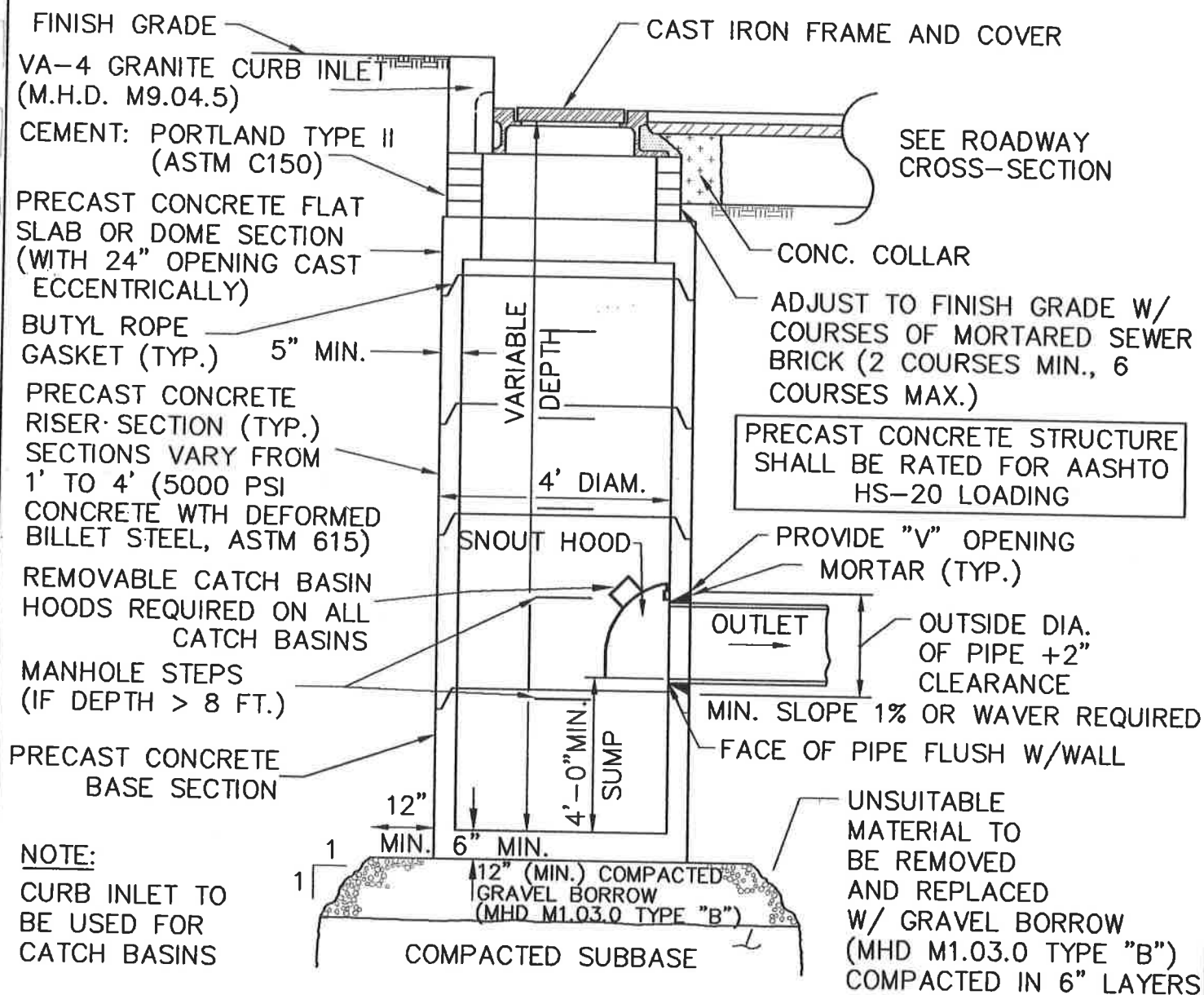
DRAIN OUTLET BAR RACK DETAIL

NOT TO SCALE

bar-rack

TOWN OF RAYNHAM
TYPICAL DETAILS

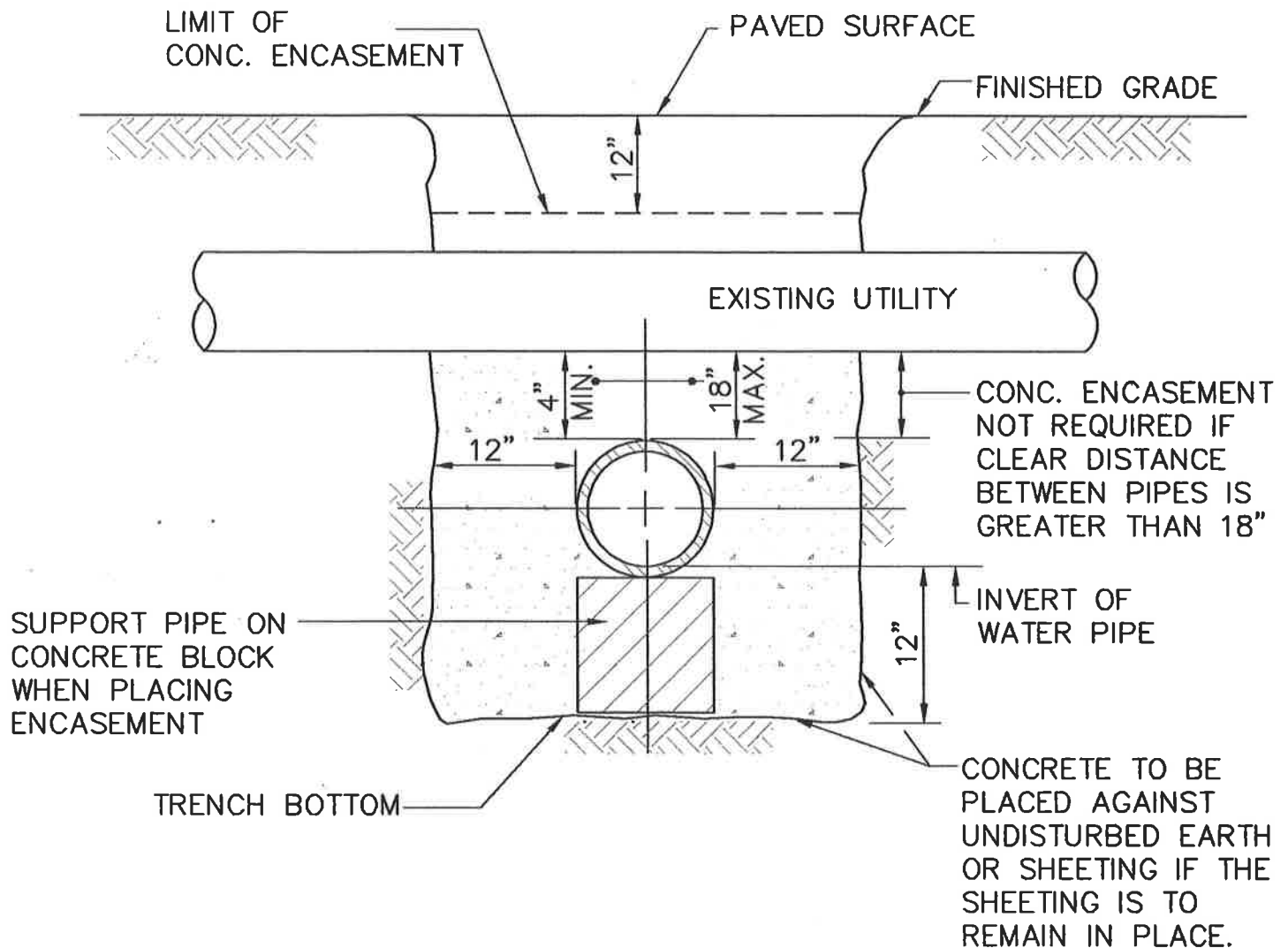
DATE: AUGUST 1, 2002
REVISED:



TYPICAL CATCH BASIN DETAIL
(W/ GRANITE CURB INLET)

NOT TO SCALE

CB-GRI



- NOTES: — PIPE MUST BE BRACED VERTICALLY & HORIZONTALLY TO PREVENT FLOATATION DURING PLACEMENT OF CONCRETE
- ALL CONCRETE ENCASEMENT SHALL BE KEPT 12" BELOW THE BOTTOM OF ASPHALT PAVEMENT

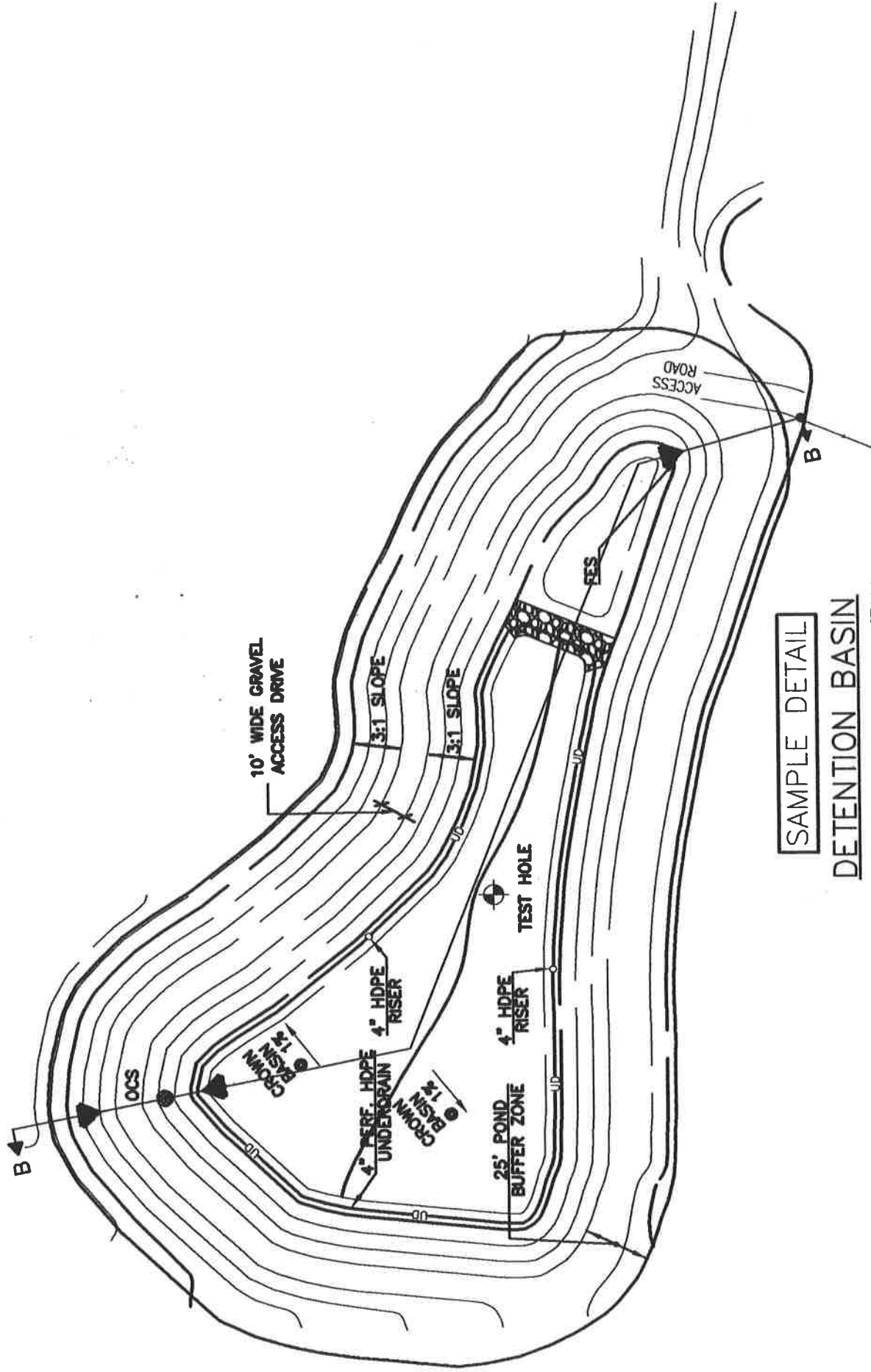
CONCRETE ENCASEMENT DETAIL
AT UTILITY CROSSINGS

NOT TO SCALE

CONCENC

DATE: AUGUST 1, 2002
REVISED:

TOWN OF RAYNHAM
TYPICAL DETAILS



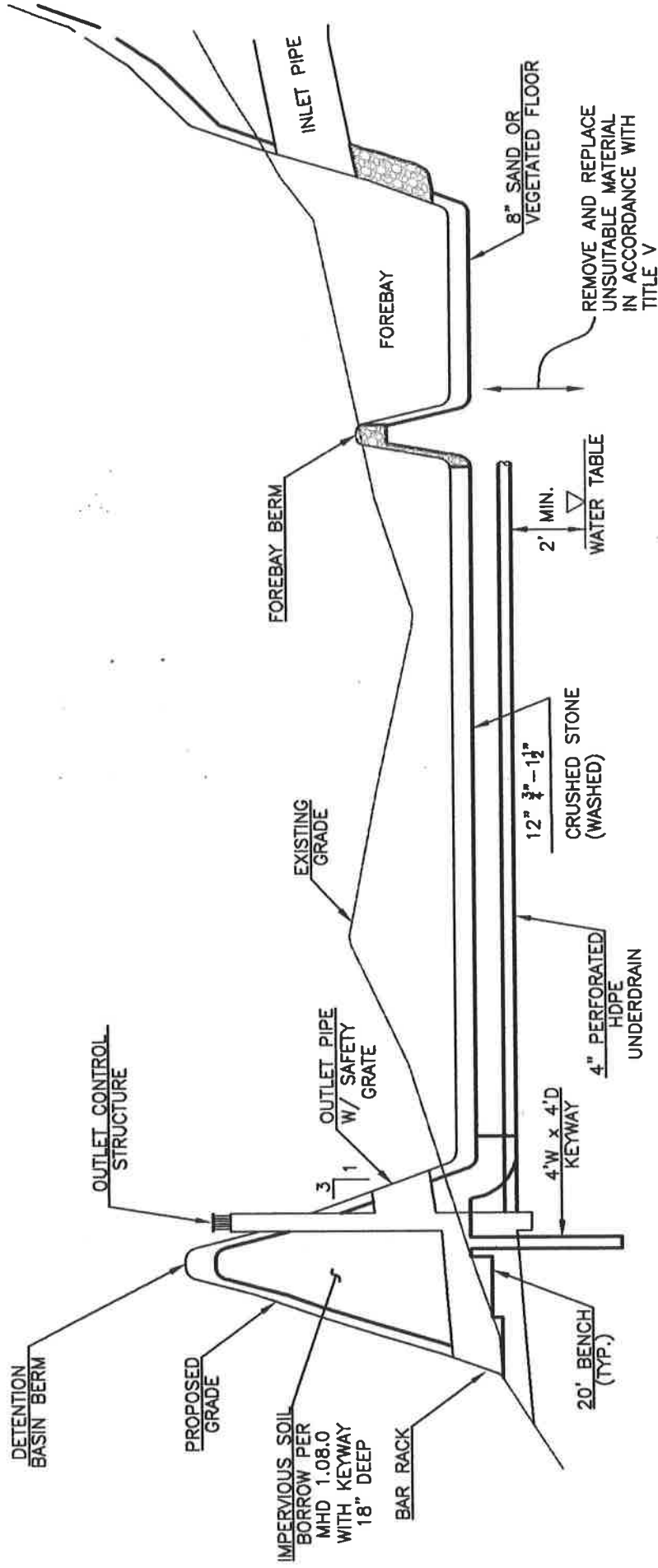
SAMPLE DETAIL
DETENTION BASIN
TYPICAL PLAN VIEW

NOT TO SCALE

det-basin-plan

TOWN OF RAYNHAM
TYPICAL DETAILS

DATE: AUGUST 1, 2002
REVISED: JUNE 15, 2004

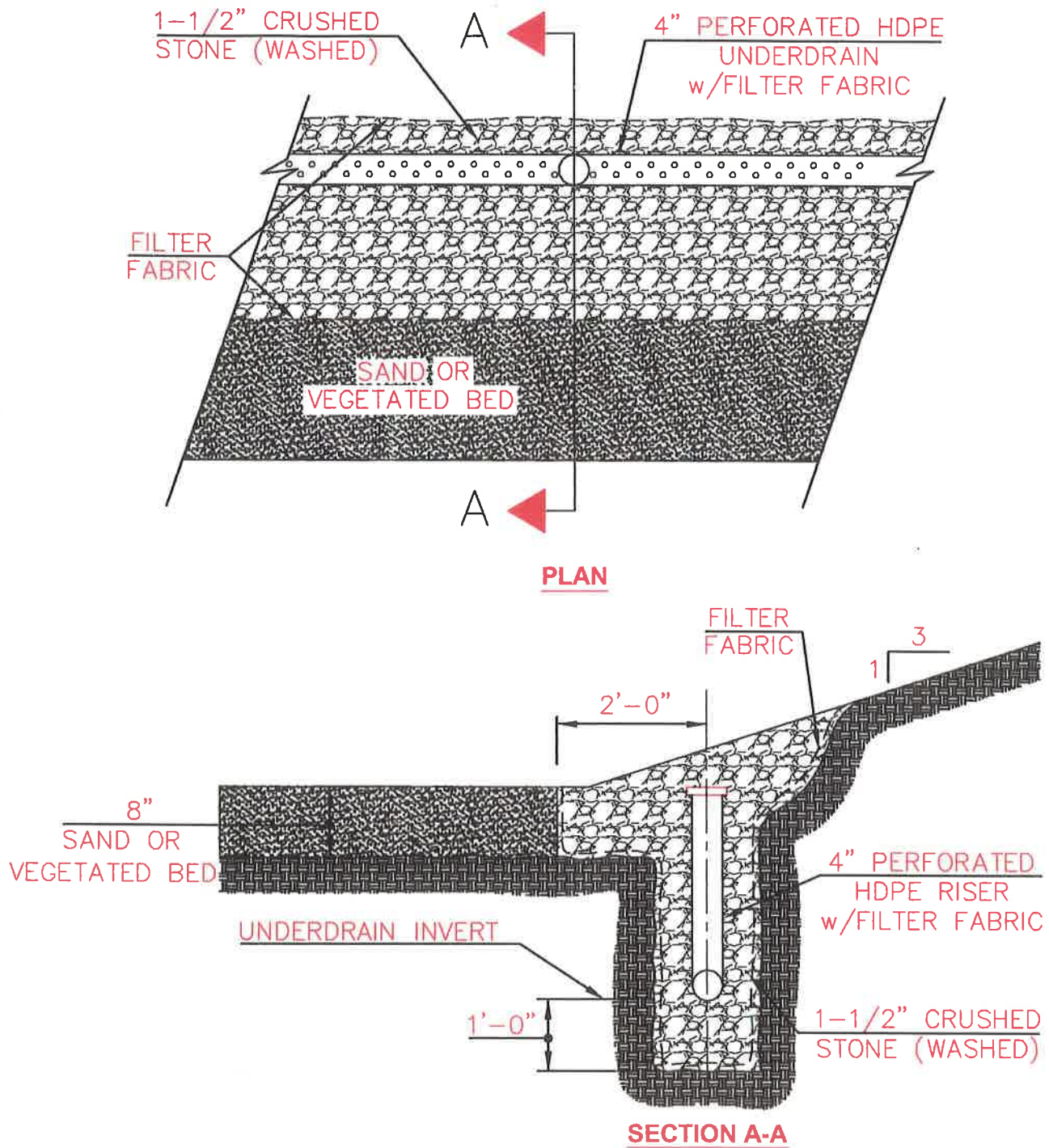


SAMPLE DETAIL

TYPICAL CROSS SECTION B-B - DETENTION BASIN

NOT TO SCALE

detention-basin-x-sect



DETENTION BASIN UNDERDRAIN DETAIL

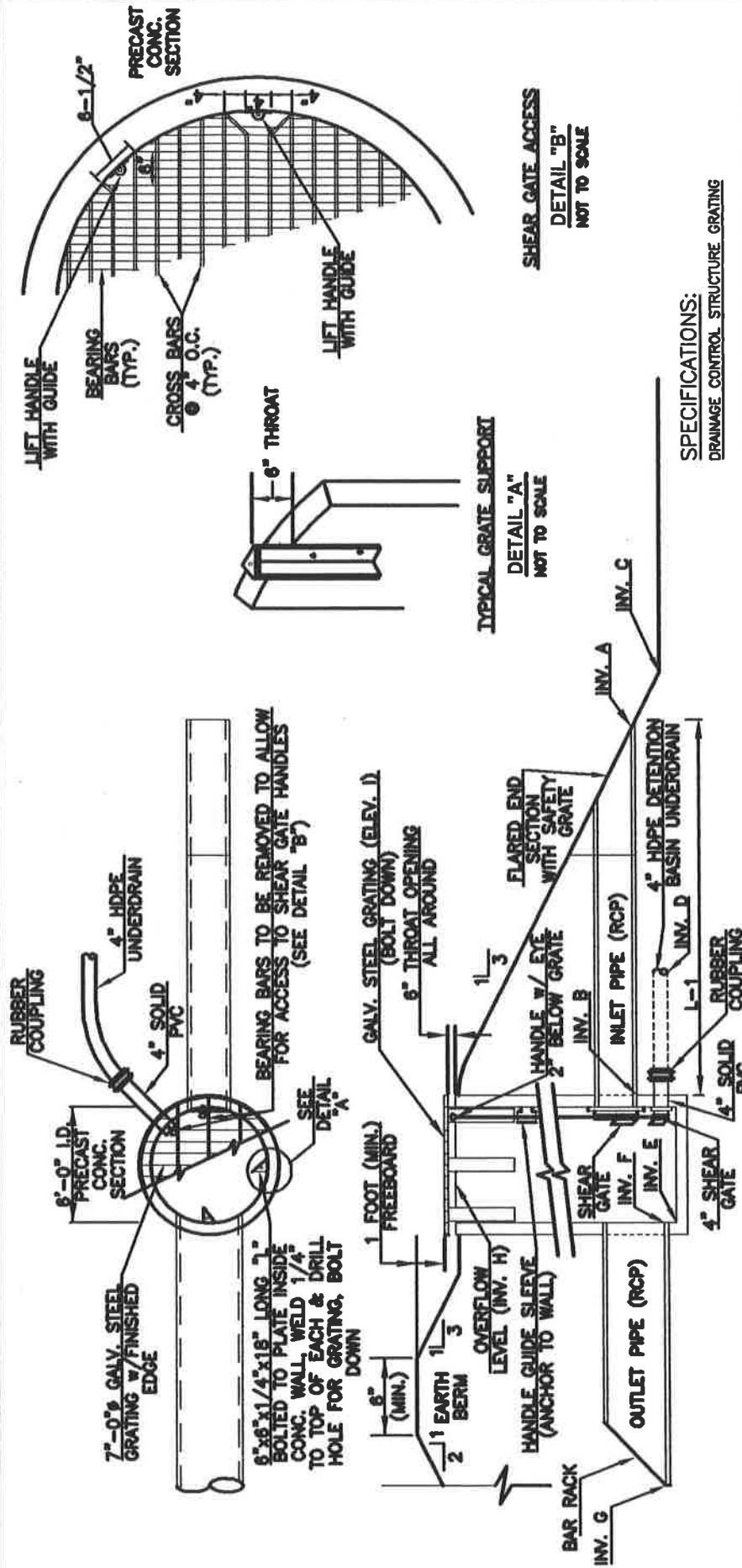
NOT TO SCALE

det-ud

DATE: AUGUST 1, 2002
REVISED:



DMH



NOTES:

- 1.) FOR ELEVATIONS & DIMENSIONS SEE ATTACHED SCHEDULE. 30% OR LESS USE FLARED END SECTION ON PIPE.
- 2.) CONTRACTOR SHALL CONFIRM INVERT GRADES IN FIELD PRIOR TO STRUCTURE INSTALLATION.

SPECIFICATIONS:

DRAINAGE CONTROL STRUCTURE GRATING

- 1.) GRATING SHALL BE STEEL WITH 1-1/4" x 3/16" D BEARING BARS, SPACED AT 1-3/16" CENTERS AND 1/2" x 3/16" CROSS BARS SPACED AT 4" CENTERS. GRATING PERIMETER SHALL BE Banded WITH NO SHARP PROTRUDING EDGES.
- 2.) GRATING SUPPORT : PROVIDE 4 SUPPORTS 6" x 1/4" x 18" LG. EACH BOLTED INTO THE CHAMBER WALLS WITH 1/4" DRILLED PLATE WELDED TO SUPPORT FOR GRATING ANCHORAGE.
- 3.) GRATE ANCHORING : GRATING WILL BE SECURED TO SUPPORTS BY PROVIDING 1-3/8" x 4-3/16" STEEL WASHER PLATE DRILLED FOR 3/8" x 3" LONG GALVANIZED STEEL BOLT.
- 4.) COMPLETE GRATING AND ALL METALS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

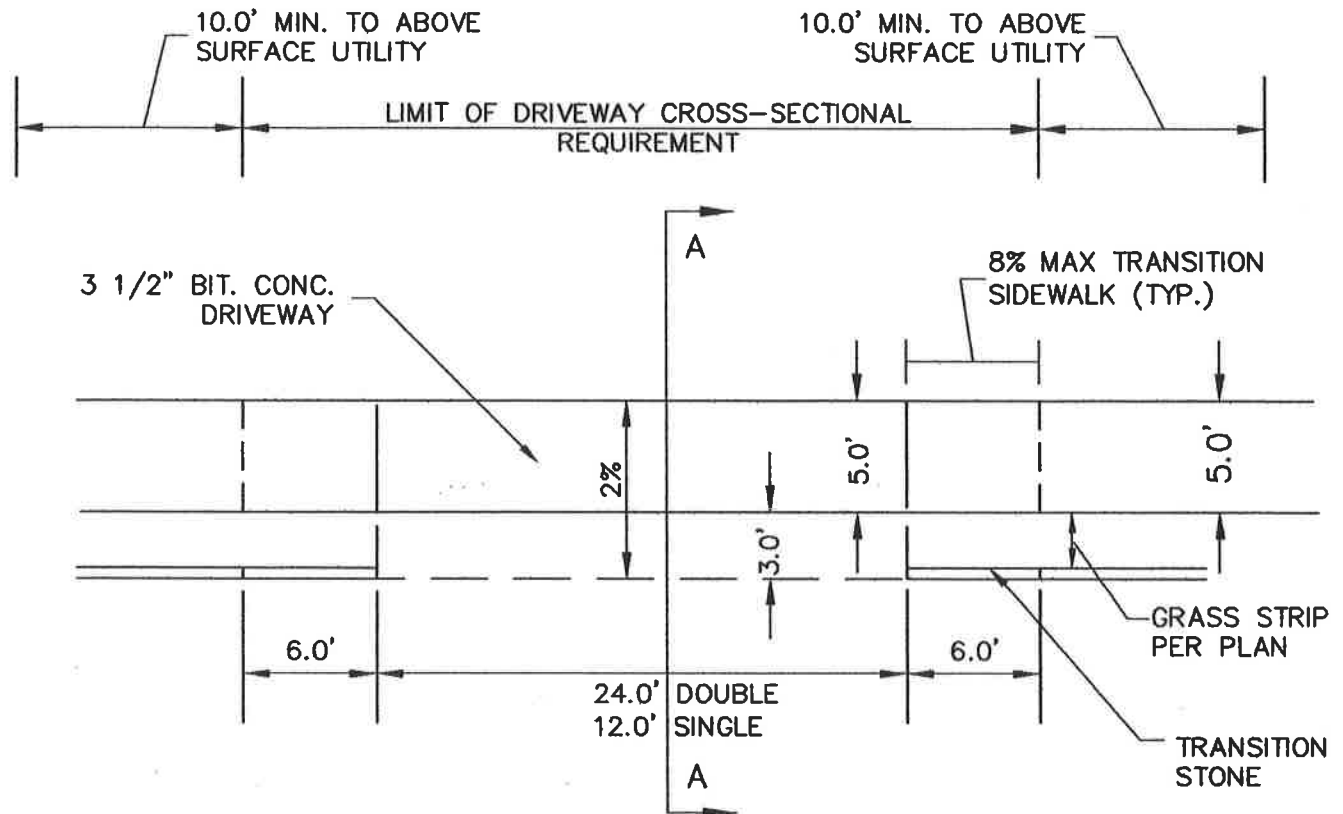
STRUCTURE				INLET				OUTLET					
LOCATION	INV. ELEV. E	OVERFLOW ELEV. H	GRATING ELEV. I	PIPE DIA.	(L-1) LENGTH	UPPER INV. A	LOWER INV. B	FLOOR INV. C	UNDERDRAIN INV. D	PIPE DIA.	(L-2) LENGTH	UPPER INV. F	LOWER INV. G

DRAINAGE CONTROL STRUCTURE

NOT TO SCALE

TOWN OF RAYNHAM
TYPICAL DETAILS

DATE: AUGUST 1, 2002
REVISED: AUGUST 31, 2004

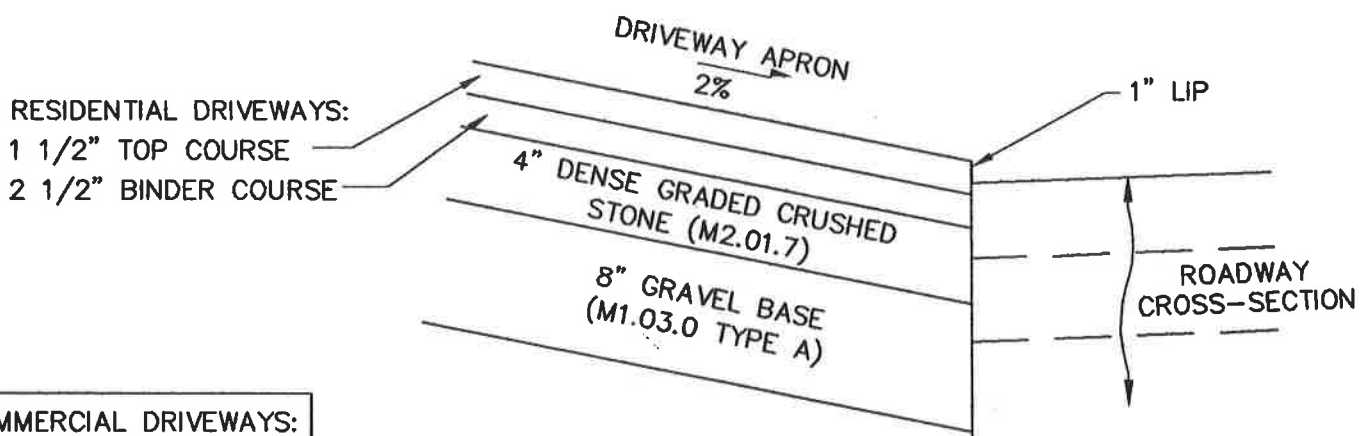


TYPICAL DRIVEWAY

SCALE: NTS

NOTE:

CURB CUT PERMITS ARE REQUIRED FOR ALL PROPOSED OR ALTERED DRIVEWAYS. DRIVEWAYS MUST BE REVIEWED AND APPROVED BY THE RAYNHAM HIGHWAY SUPERINTENDENT.



COMMERCIAL DRIVEWAYS:

2 1/2" TOP COURSE

3 1/2" BINDER COURSE

SECTION A-A

SCALE: NTS

DRIVE2

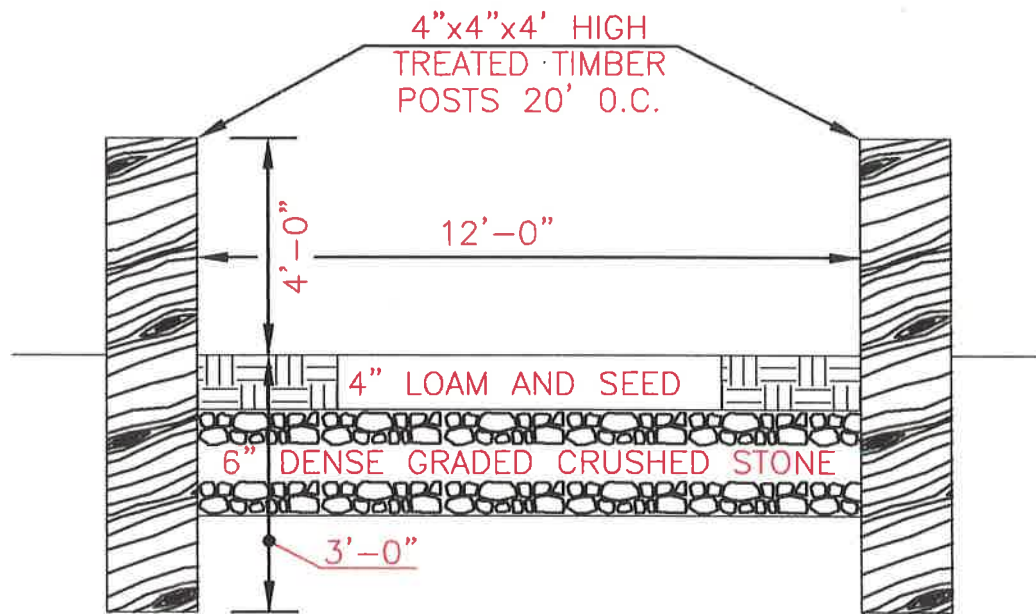
DATE: AUGUST 1, 2002
REVISED:



1. APPROXIMATE CAPACITY; 424 C.F.
2. NO BOTTOM
3. CONCRETE MINIMUM STRENGTH: 5,500 P.S.I. @28 DAYS
4. STEEL REINFORCEMENT: ASTM A-615, A-185, OR A-497, 1" MIN. COVER
5. DESIGN LOADING: AASHTO HS20-44

NOT TO SCALE

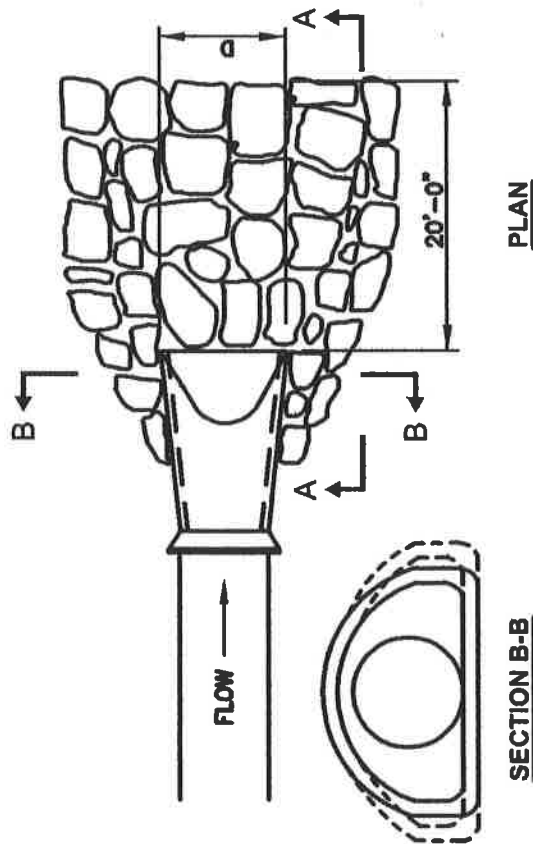
DRYWELL-8ft



EMERGENCY ACCESS DRIVE

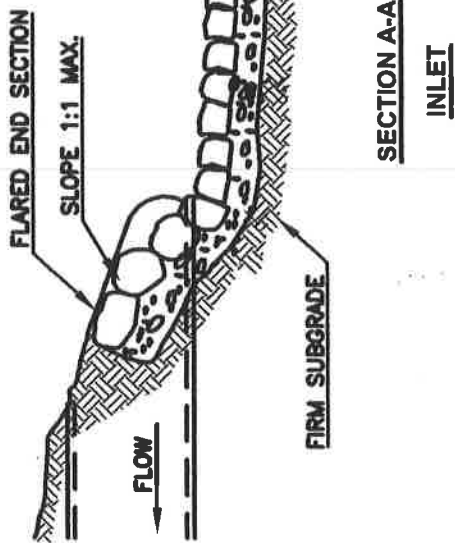
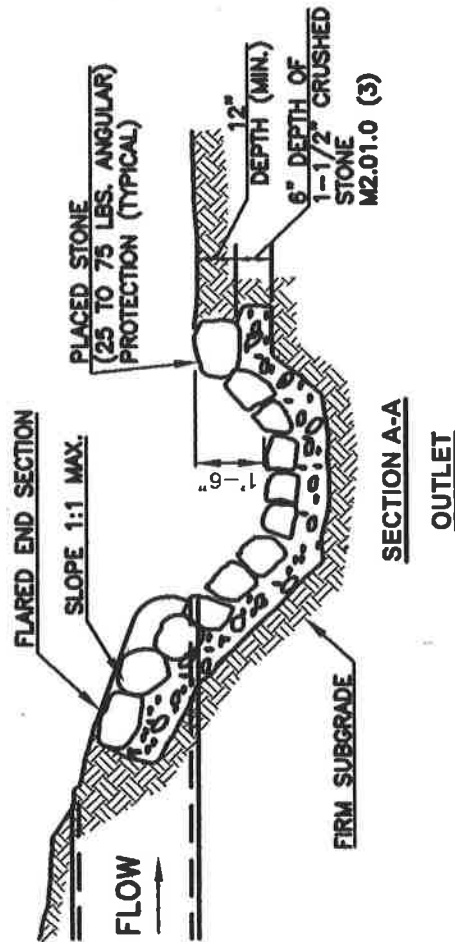
NOT TO SCALE

emergency-access-drive



GENERAL NOTES:

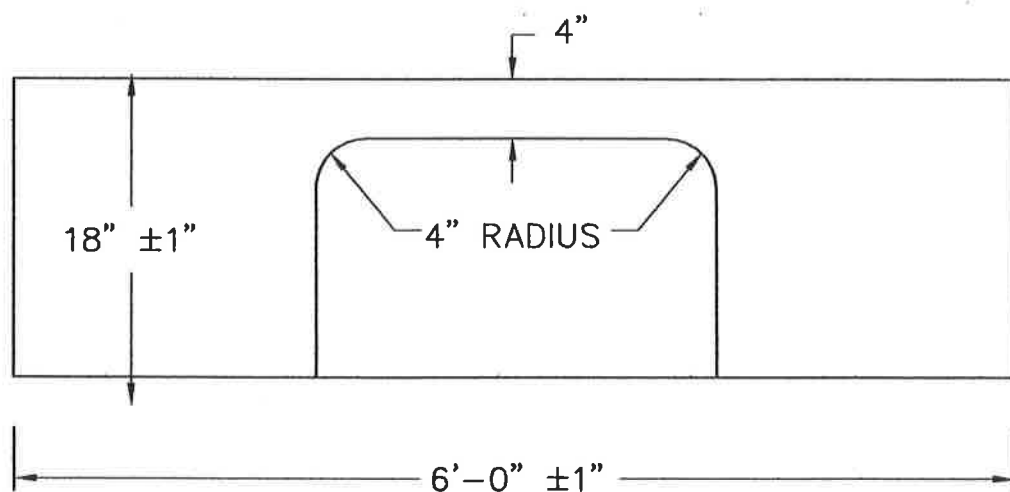
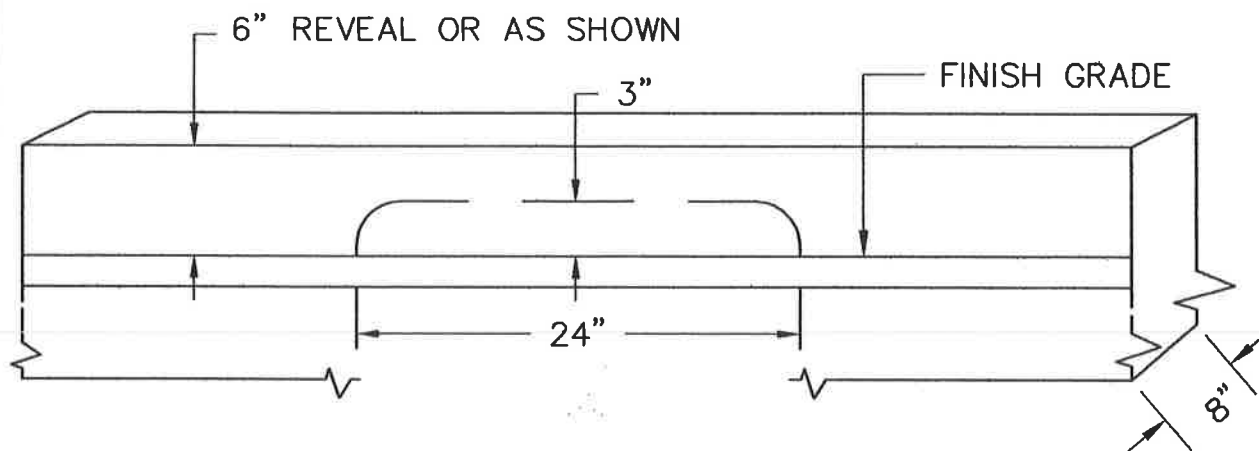
1. THE FLARED END SECTION PIPE JOINT SHALL BE SIMILAR TO THE MAIN RUN OF PIPE JOINTS.
2. FLARED END SECTIONS SHALL BE REINFORCED CONCRETE UNLESS OTHERWISE NOTED ON THE PLANS.
3. ALL FLARED END SECTIONS SHALL CONFORM TO THE DIMENSIONS SPECIFIED IN THE M.D.P.W. 1977 CONSTRUCTION STANDARDS.



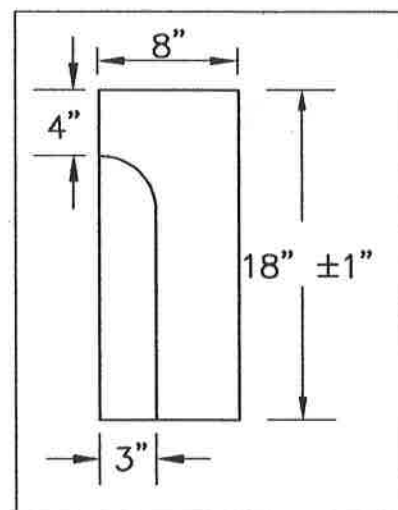
FLARED END SECTION (FES)
OUTLET & STILLING BASIN

NOT TO SCALE

FLARED-END



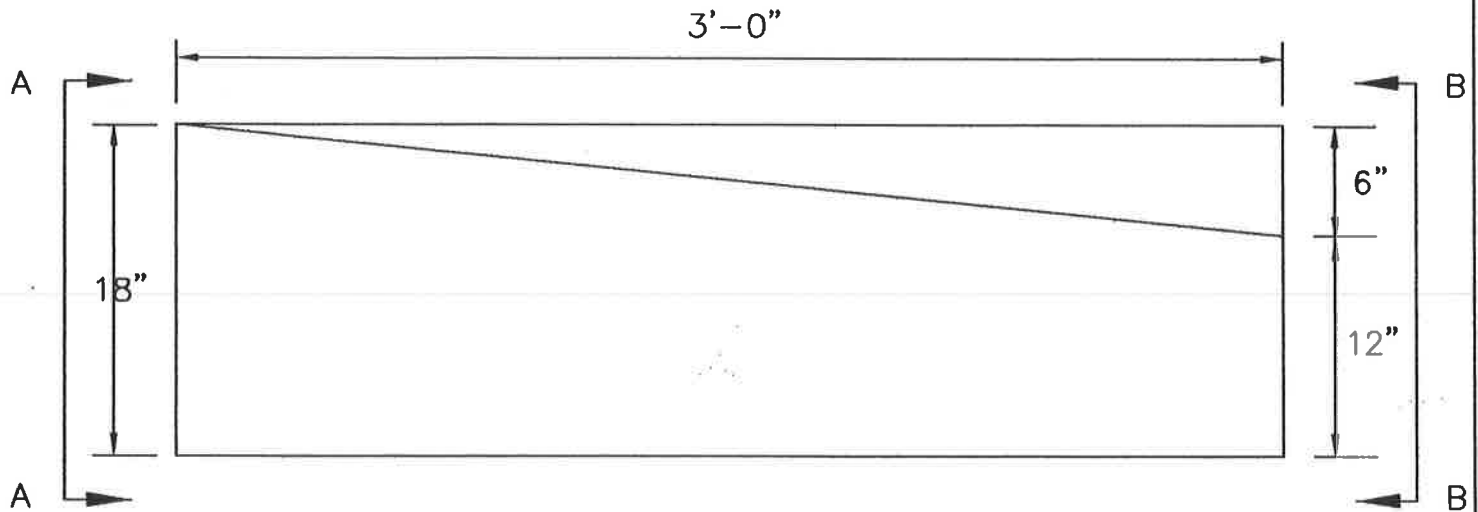
ELEVATION



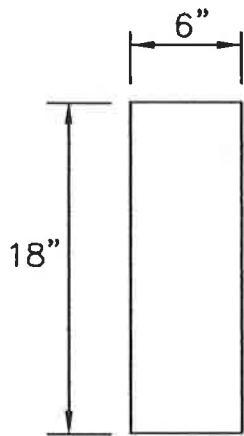
TYPICAL GRANITE CURB INLET

NOT TO SCALE

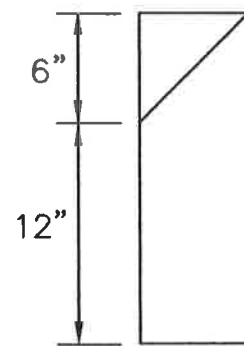
CURBINL



ELEVATION



A-A



B-B

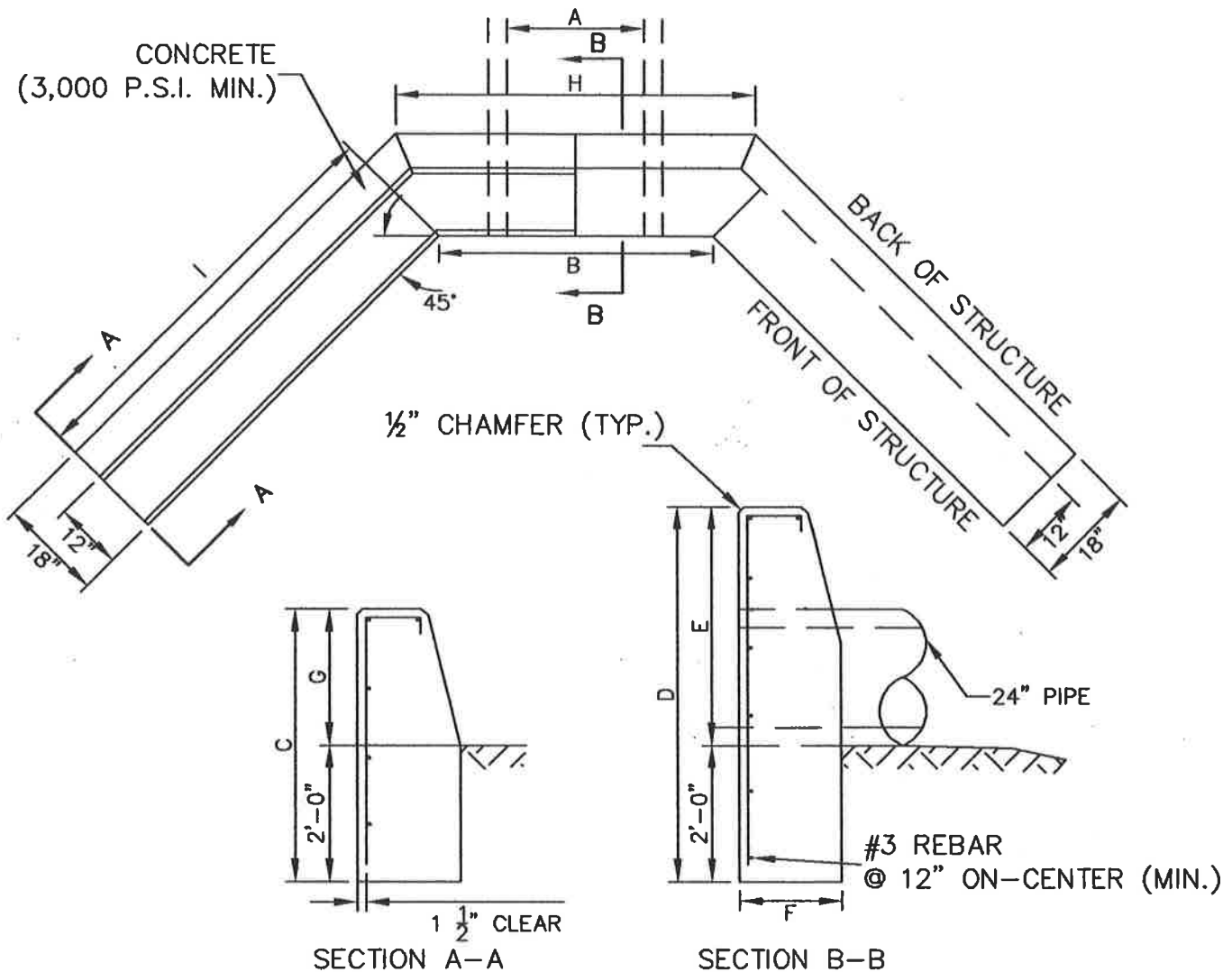
NOTE: 6 FOOT TRANSITION CURB REQUIRED WHERE CAPE COD
BERM OR NO CURB IS AVAILABLE.

GRANITE TRANSITION CURB
VERTICAL TO SLOPE

NOT TO SCALE

A DERIVATIVE OF MHD 106.4.0

CURBINL2



PRECAST CONCRETE HEADWALL DETAIL

NOT TO SCALE

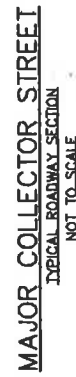
HEADWALL-PRECAST

1 1/2":1 SLOPES and 2:1 SLOPES								1 1/2":1	2:1
A	B	C	D	E	F	G	H	I	I
12"-30"	4'-0"	4'-0"	5'-6"	3'-6"	1'-6"	2'-0"	5'-3"	3'-0"	4'-3"
36"	4'-6"	4'-3"	6'-0"	4'-0"	1'-8"	2'-3"	5'-11"	3'-6"	5'-0"
42"	5'-0"	4'-6"	6'-6"	4'-6"	1'-10"	2'-6"	6'-6"	4'-0"	5'-9"
48"	5'-6"	4'-9"	7'-0"	5'-0"	2'-0"	2'-9"	7'-2"	4'-6"	6'-6"
54"	6'-0"	5'-0"	7'-6"	5'-6"	2'-2"	3'-0"	7'-10"	5'-0"	7'-3"
60"	6'-6"	5'-3"	8'-0"	6'-0"	2'-4"	3'-3"	8'-5"	5'-6"	8'-0"
72"	7'-6"	5'-9"	9'-0"	7'-0"	2'-8"	3'-9"	9'-9"	6'-6"	9'-6"
84"	8'-6"	6'-3"	10'-0"	8'-0"	3'-0"	4'-3"	11'-0"	7'-6"	11'-0"

DATE: AUGUST 1, 2002
REVISED: AUGUST 31, 2004

1.) SIDEWALK PAVEMENT LOCATION MAY MEANDER WITHIN THE RIGHT OF WAY TO REFLECT AND PROTECT EXISTING TOPOGRAPHY, TREES AND OTHER SITE FEATURES. MINIMUM DISTANCE FROM BACK OF CURB IS 2 FEET.

- 2.) ALL SLOPES TO BE LOAM & SEEDING TO RIGHT OF WAY, OR TO EXISTING GRADE
- 3.) STREET TRANS SHALL BE SPACED 75 FEET ON CENTER.
- 4.) ALL THICKNESSES SHALL BE COMPACTED THICKNESS.
- 5.) ALL CONCRETE COLLARS AROUND UTILITY STRUCTURES SHALL BE SEALED WITH CONCRETE SEALERS BEFORE BACKFILL OR PAVED OVER.
- 6.) UNDERDRAINS ARE REQUIRED IN ALL ROADWAYS UNLESS WAIVED BY THE PLANNING BOARD.
- 7.) CONCRETE BASE FOR GRANITE CURBING TO BE PROVIDED PER M.D.P.W. STANDARDS.
- 8.) CROSS-SECTIONAL ROADWAY SLOPE SHALL BE PROVIDED AT ALL MATERIAL LEVELS.
- 9.) CONTRACTOR SHALL ESTABLISH TEMPORARY CONSTRUCTION EASEMENTS FOR TREE INSTALLATION. TREES WILL BECOME PROPERTY OF HOME OWNER AT STREET ACCEPTANCE.
- 10.) ALL ROADWAYS SHALL BE GRADED TO PROPOSED ELEVATION AT THE LAYOUT LINE OF THE ROAD. THE ROADWAY CONTRACTOR SHALL STAKE THE PROPOSED GRADES EVERY 50 FEET ALONG THE RIGHT-OF-WAY LINE.

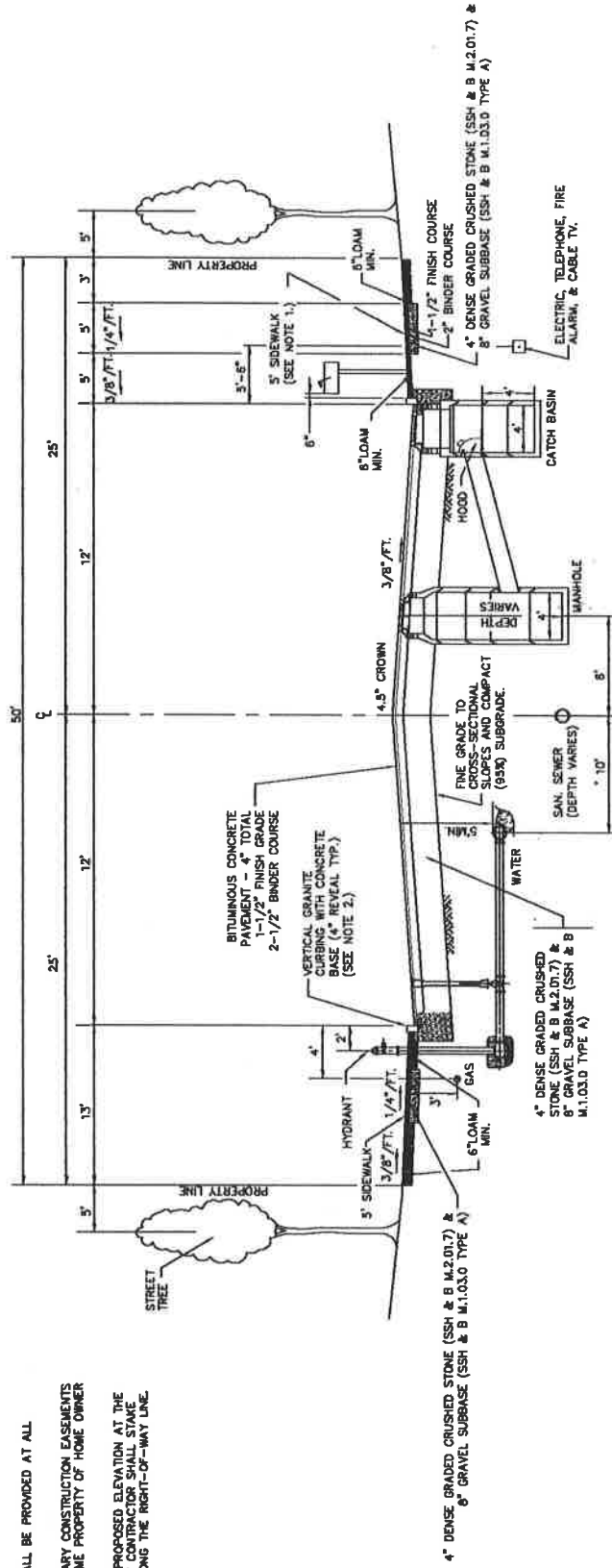


TOWN OF RAYNHAM
TYPICAL DETAILS

DATE: AUGUST 1, 2002
REVISED: AUGUST 31, 2004

NOTES:

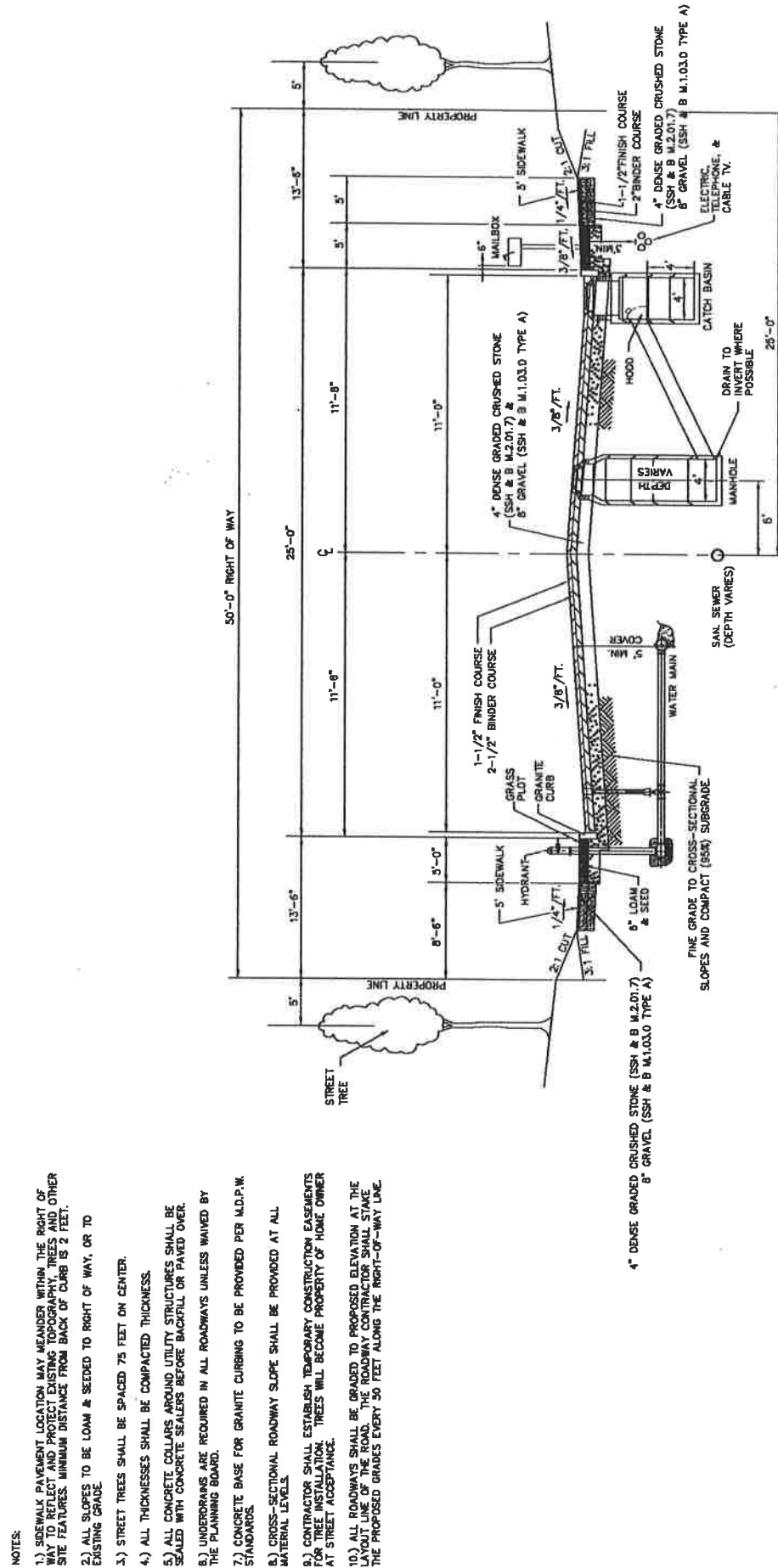
- 1.) SIDEWALK PAVEMENT LOCATION MAY MEANDER WITHIN THE RIGHT OF WAY TO REFLECT AND PROTECT EXISTING UTILITIES, TREES AND OTHER SITE FEATURES. MINIMUM DISTANCE FROM BACK OF CURB IS 2 FEET.
- 2.) ALL SLOPES TO BE LOAM & SEED TO RIGHT OF WAY, OR TO EXISTING GRADE.
- 3.) STREET TREES SHALL BE SPACED 75 FEET ON CENTER.
- 4.) ALL THICKNESSES SHALL BE COMPACTED THICKNESS.
- 5.) ALL CONCRETE COLLARS AROUND UTILITY STRUCTURES SHALL BE SEALED WITH CONCRETE SEALERS BEFORE BACKFILL OR PAVED OVER.
- 6.) UNDERDRAINS ARE REQUIRED IN ALL ROADWAYS UNLESS WAIVED BY THE PLANNING BOARD.
- 7.) CONCRETE BASE FOR GRANITE CURBS TO BE PROVIDED PER M.D.P.W. STANDARDS.
- 8.) CROSS-SECTIONAL ROADWAY SLOPE SHALL BE PROVIDED AT ALL MATERIAL LEVELS.
- 9.) CONTRACTOR SHALL ESTABLISH TEMPORARY CONSTRUCTION EASEMENTS FOR TREE INSTALLATION. TREES WILL BECOME PROPERTY OF HOME OWNER AT STREET ACCEPTANCE.
- 10.) ALL ROADWAYS SHALL BE GRADED TO PROPOSED ELEVATION AT THE LAYOUT LINE OF THE ROAD. THE ROADWAY CONTRACTOR SHALL STAKE THE PROPOSED GRADES EVERY 50 FEET ALONG THE RIGHT-OF-WAY LINE.

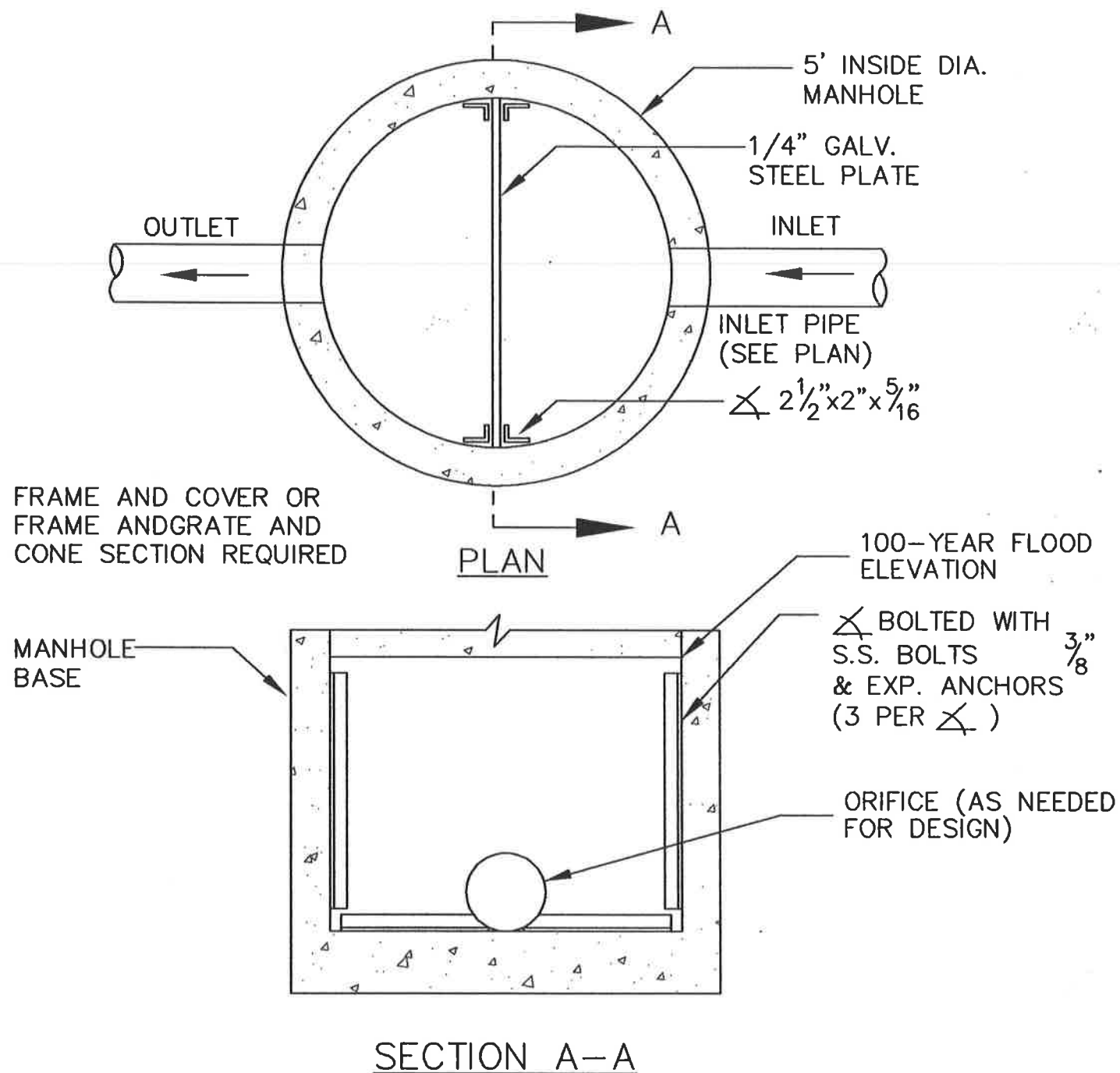


MINOR COLLECTOR STREET
TYPICAL CROSS SECTION
50 FOOT RIGHT-OF-WAY
NOT TO SCALE

DATE: AUGUST 1, 2002
REVISED: AUGUST 31, 2004

Typical Roadway Sections
1 of 3

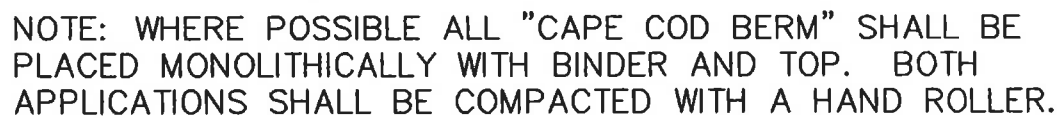




OUTLET CONTROL STRUCTURE

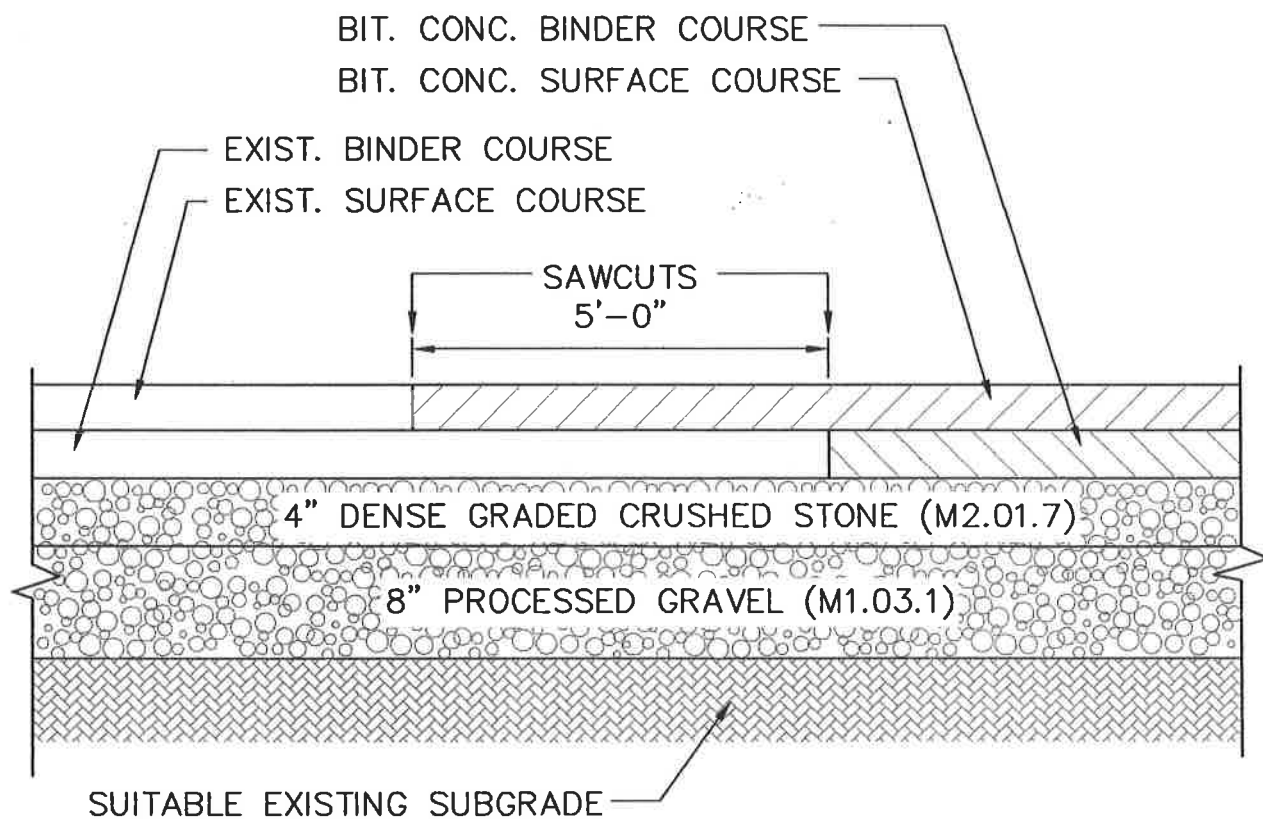
NOT TO SCALE

outlet-cont



NOT TO SCALE

PAV-COD



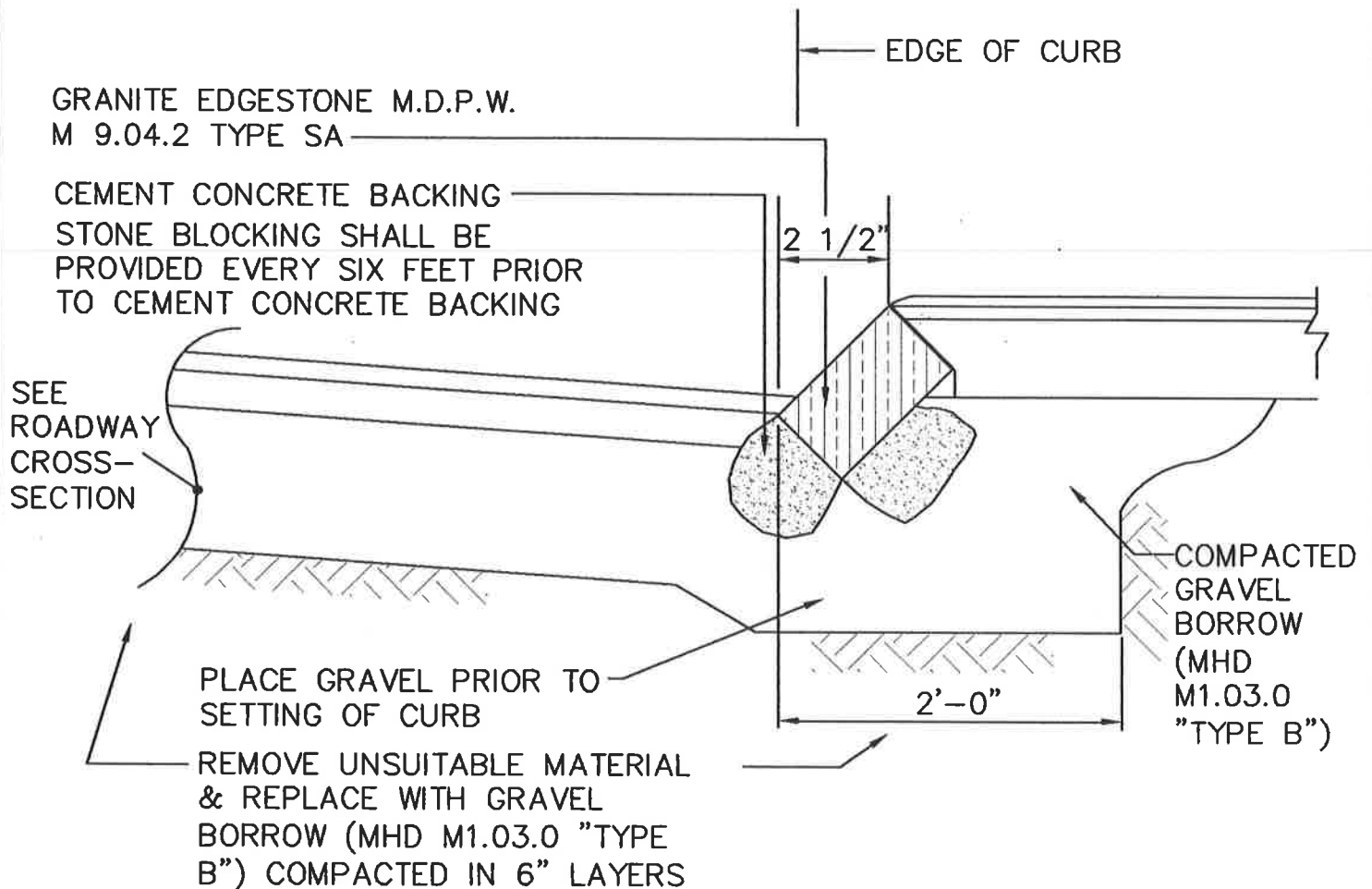
PAVEMENT MATCHING DETAIL

NOT TO SCALE

PAV-MATCH

TOWN OF RAYNHAM
TYPICAL DETAILS

DATE: AUGUST 1, 2002
REVISED:

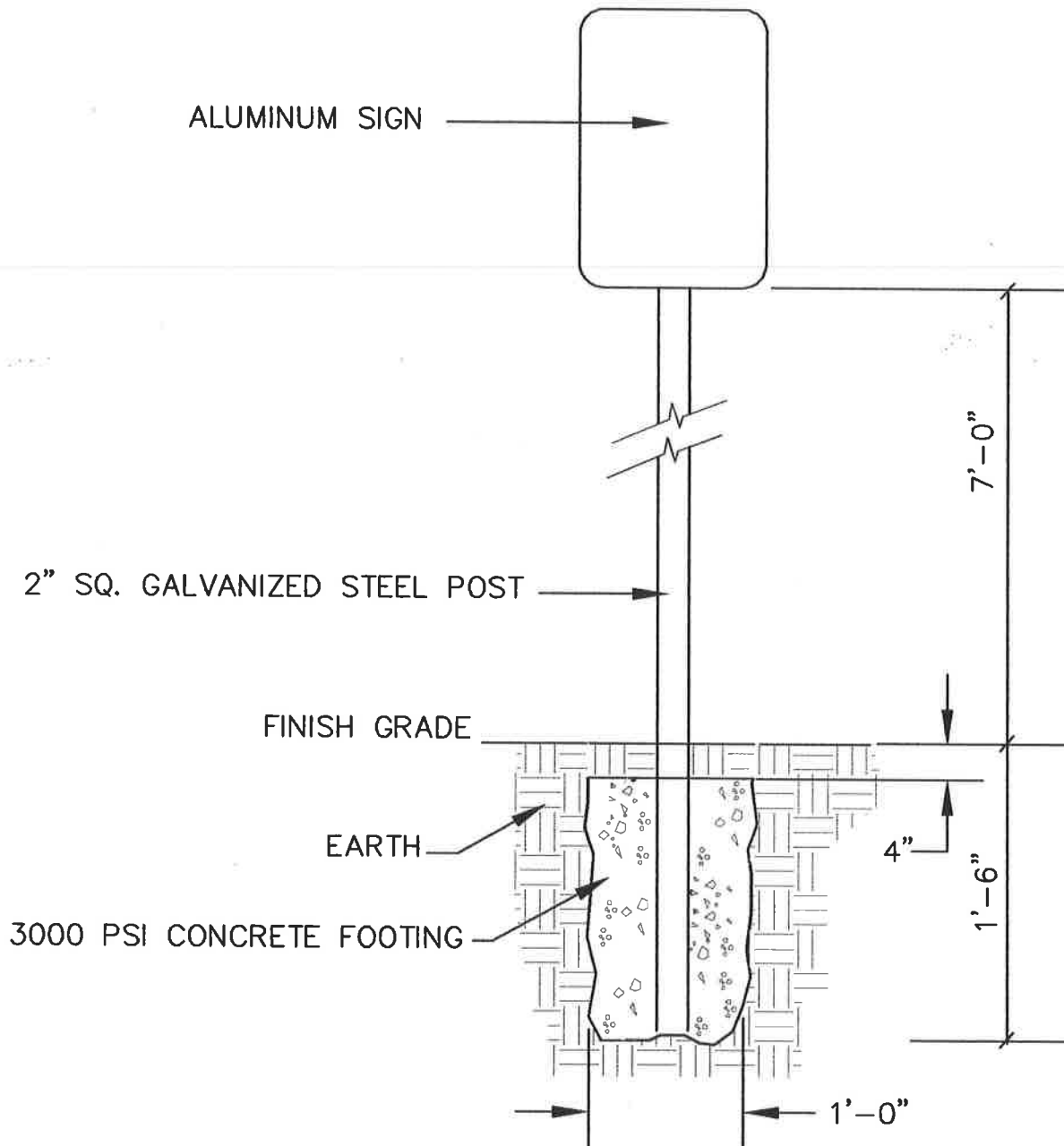


NOTE: TRANSITION CURB AND VERTICAL CURB INLET STONES
MUST BE PROVIDED AT ALL CATCH BASINS.

TYPICAL PAVEMENT AND
SLOPED GRANITE CURB SECTION

NOT TO SCALE

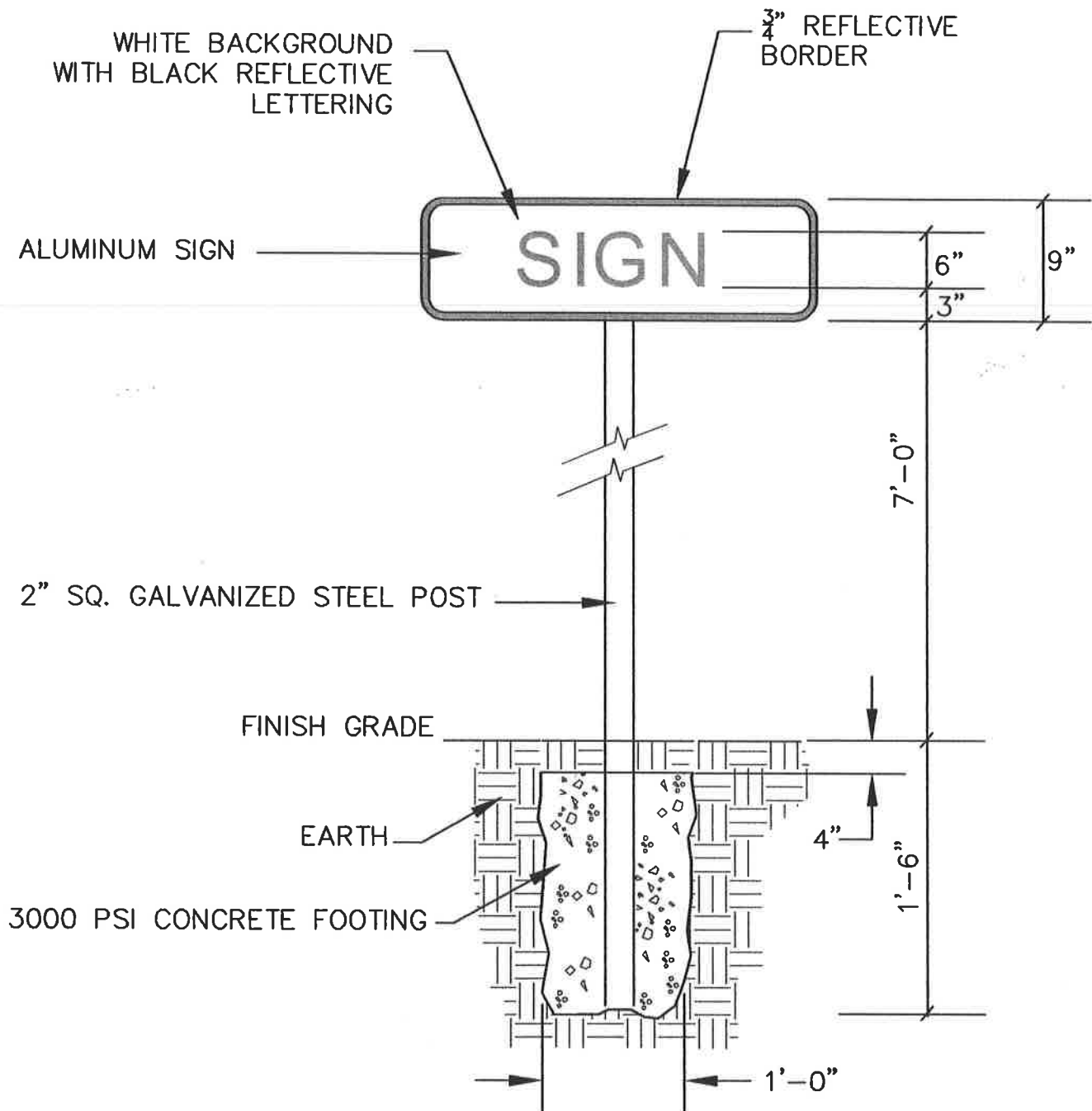
PAV-SLGR



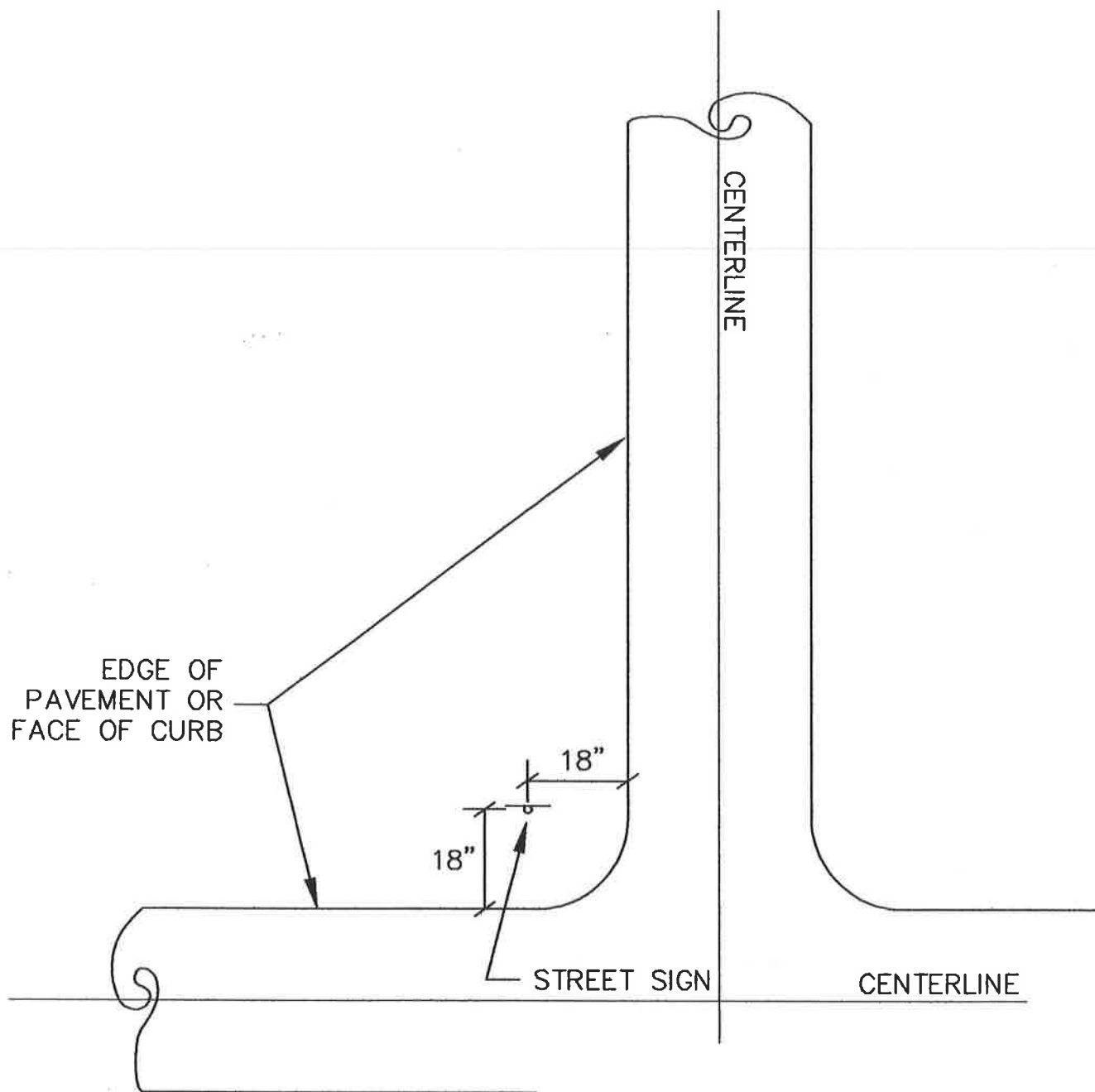
TYPICAL POST SETTING DETAIL

NOT TO SCALE

POSTSET

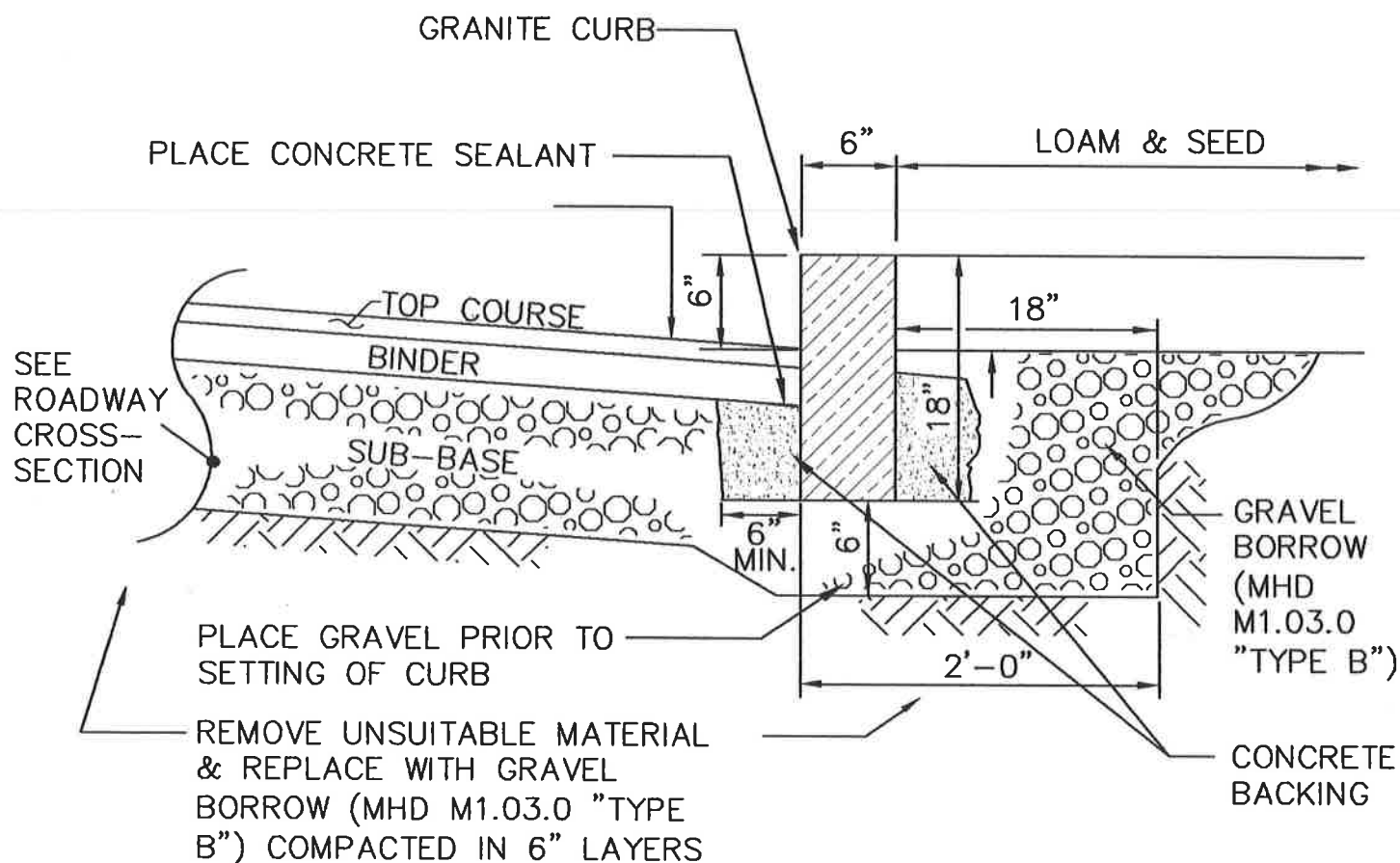


STANDARD STREET SIGN DETAIL
NOT TO SCALE



NOT TO SCALE

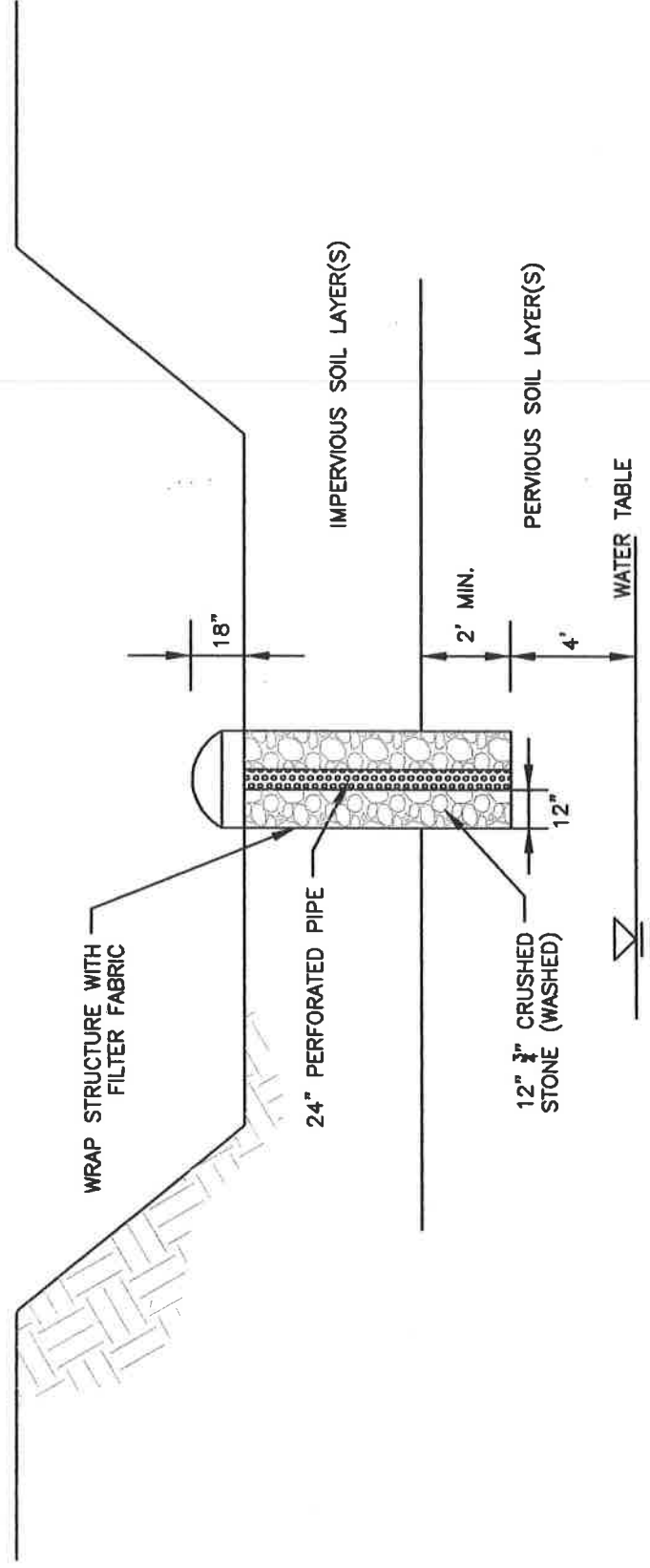
POSTSET3



TYPICAL PAVEMENT AND
GRANITE CURB SECTION

NOT TO SCALE

PRECAST



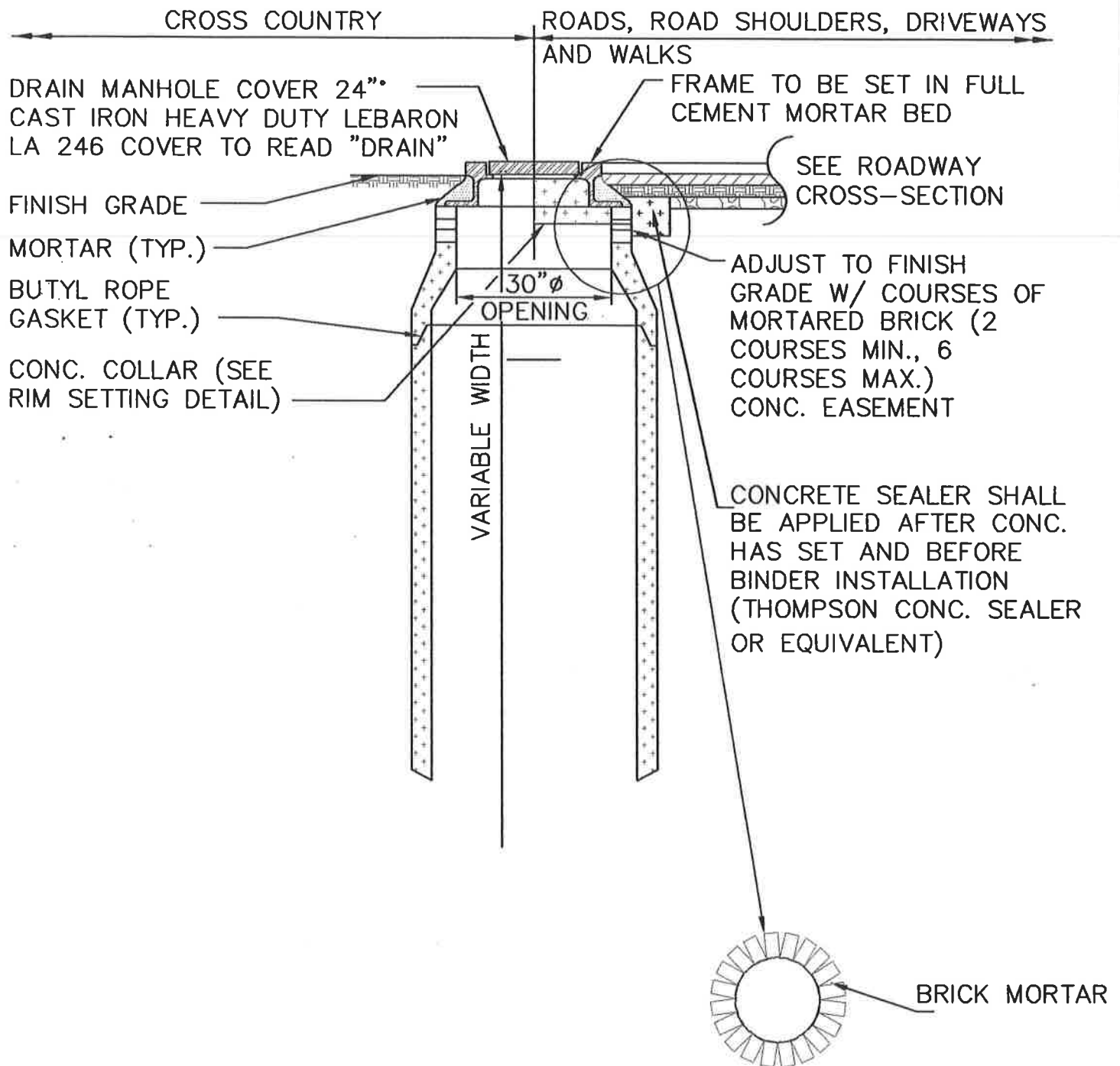
RETENTION BASIN WICK DETAIL

NOT TO SCALE

retention-basin-wick

TOWN OF RAYNHAM
TYPICAL DETAILS

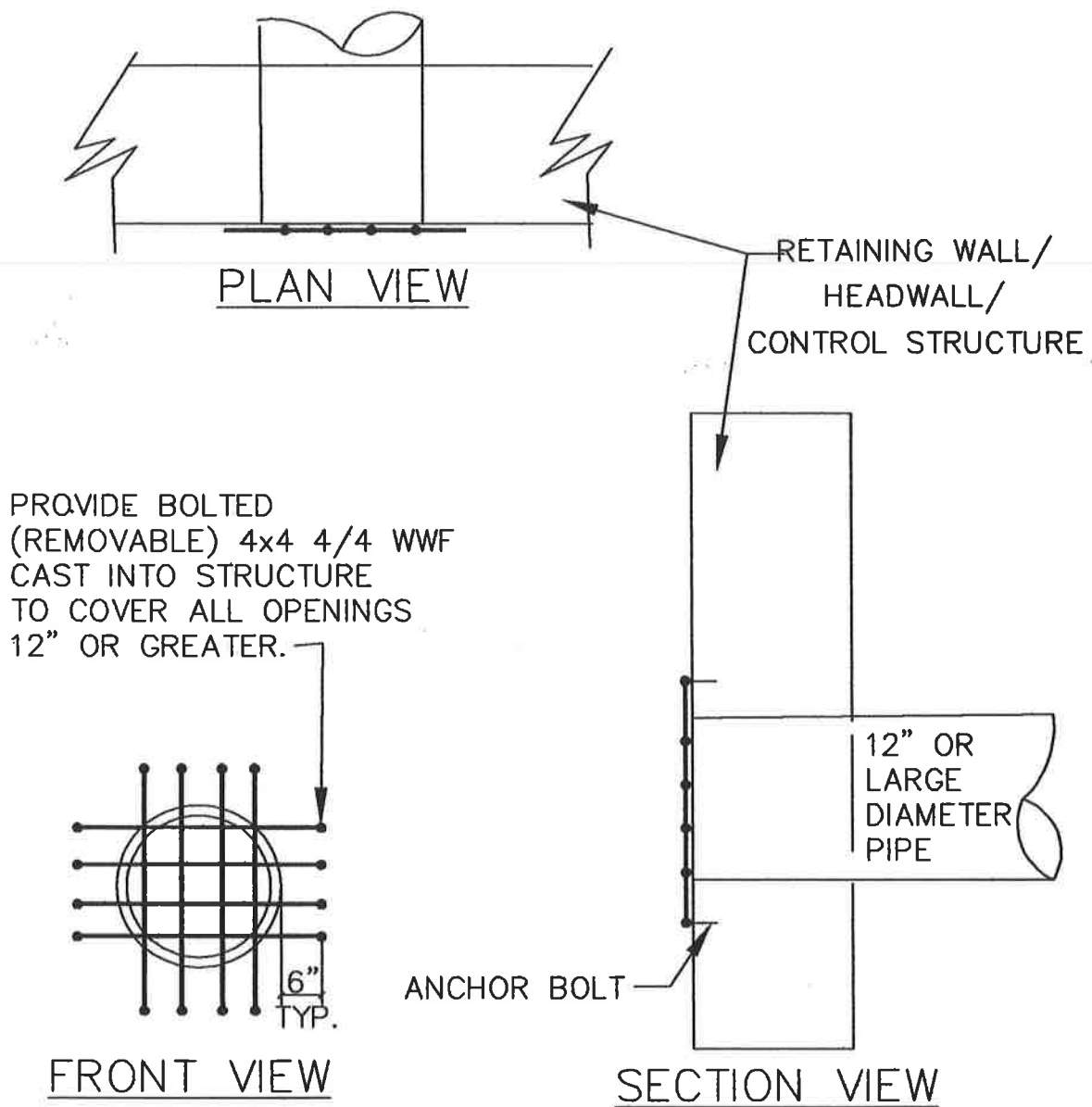
DATE: AUGUST 1, 2002
REVISED:



TYPICAL RIM SETTING DETAIL

NOT TO SCALE

RIMSET



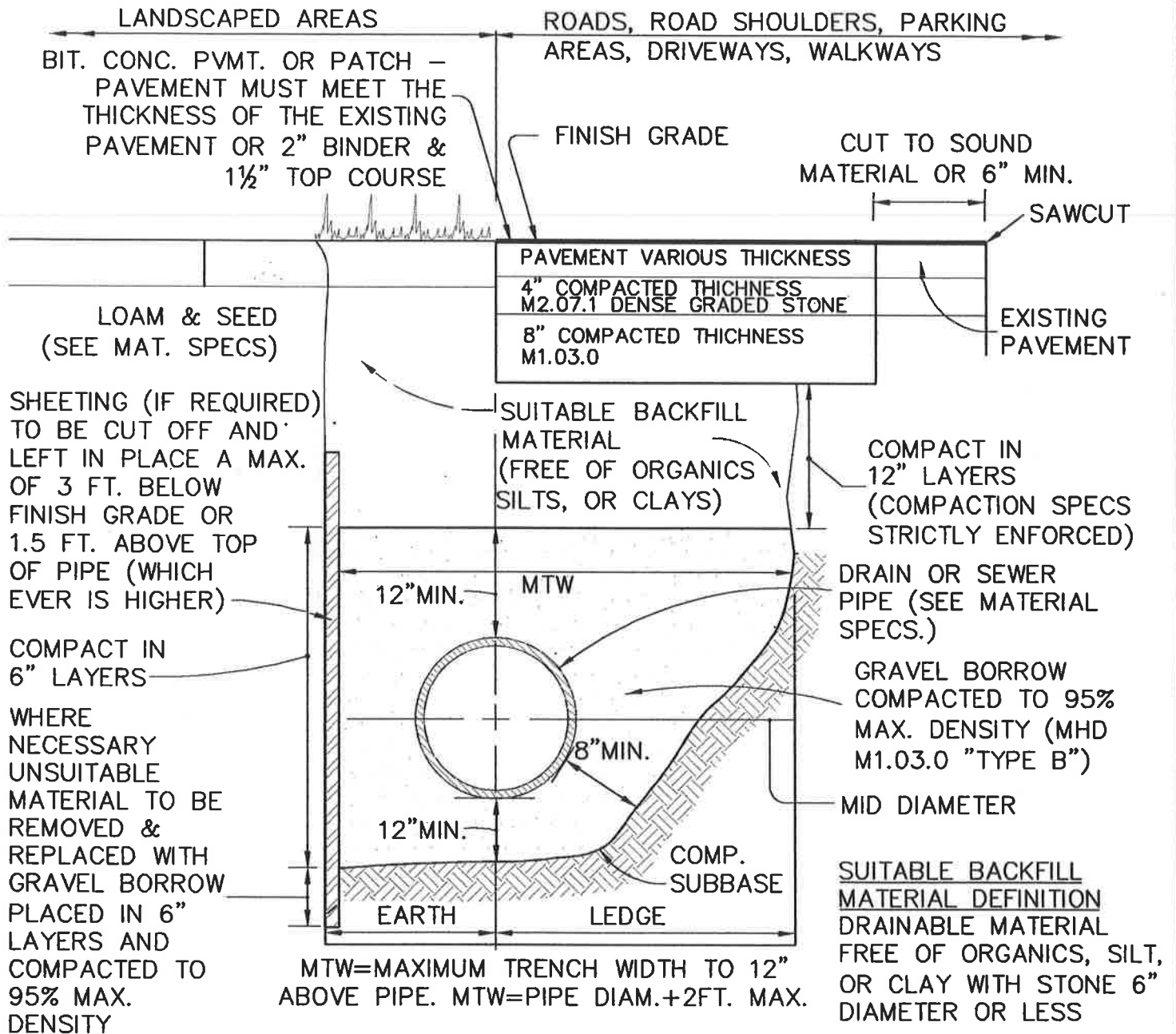
SAFETY GRATE DETAIL

NOT TO SCALE

SGRATE

TOWN OF RAYNHAM
TYPICAL DETAILS

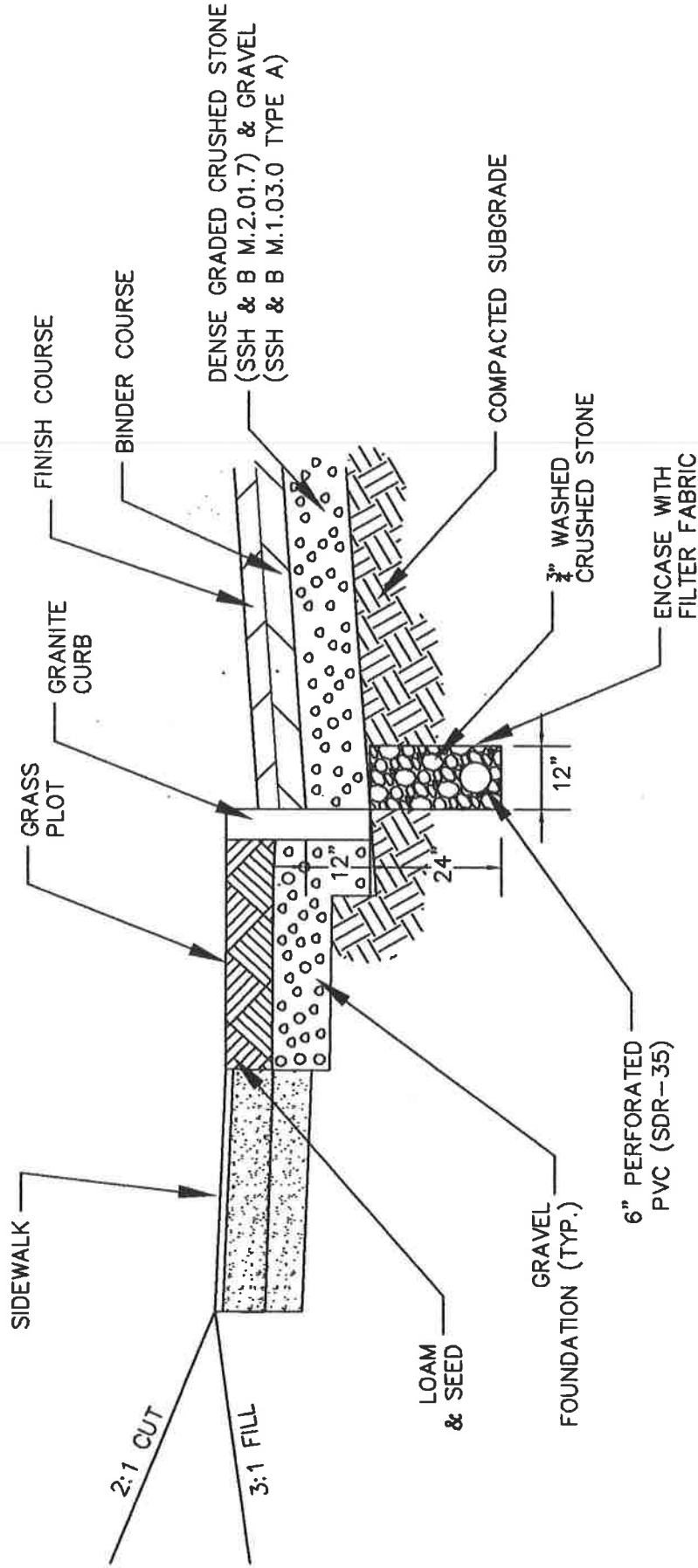
DATE: AUGUST 1, 2002
REVISED:



STANDARD TRENCH DETAIL
FOR UTILITY PIPE

NOT TO SCALE

STTRENCH

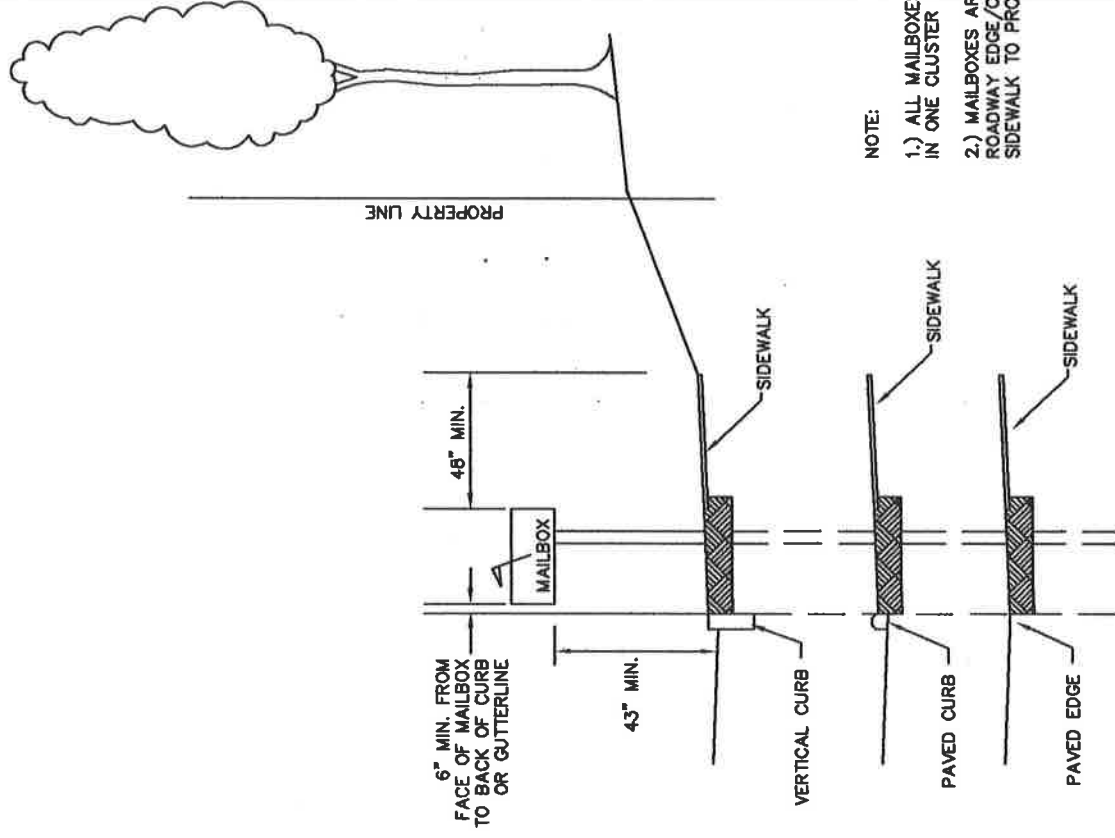


NOTES:

- 1.) UNDERDRAINS SHALL DISCHARGE INTO CATCHBASIN ABOVE THE OUTLET INVERT.

UNDERDRAIN DETAIL

NOT TO SCALE

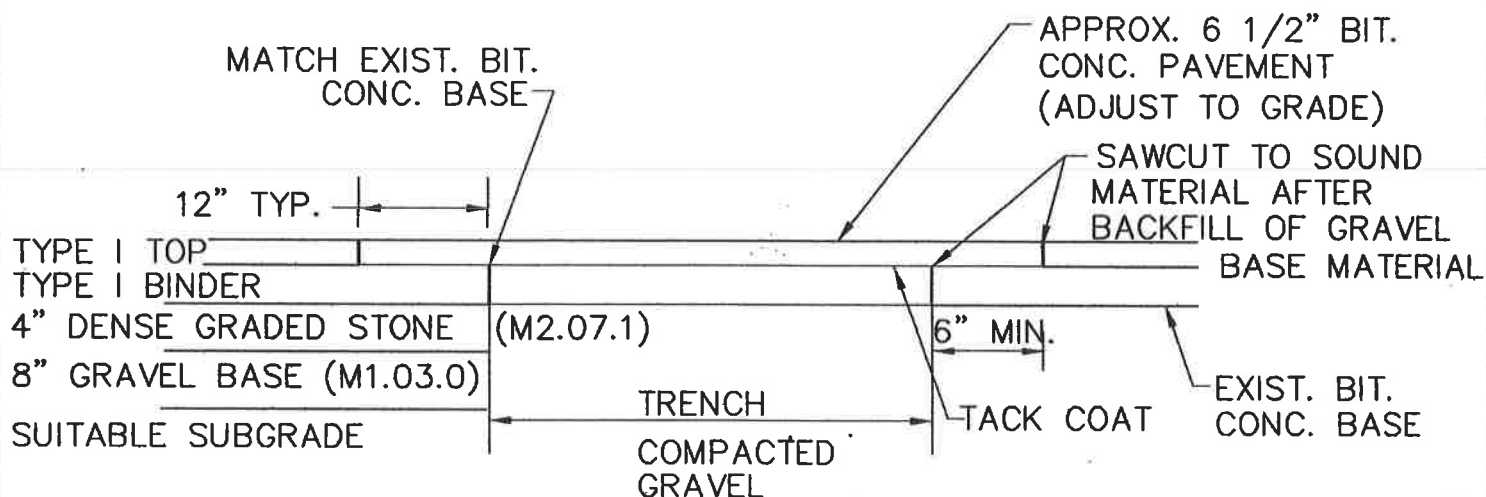


NOTE:

- 1.) ALL MAILBOXES IN CUL-DE-SACS SHALL BE LOCATED TOGETHER IN ONE CLUSTER AT END OF SIDEWALK.
- 2.) MAILBOXES ARE PROHIBITED IN SIDEWALKS THAT ABUT THE ROADWAY EDGE/CURB UNLESS THE MAILBOX OWNER IMPROVES THE SIDEWALK TO PROVIDE ADA COMPLIANT ACCESS.

MAILBOX LOCATION DETAIL

NOT TO SCALE



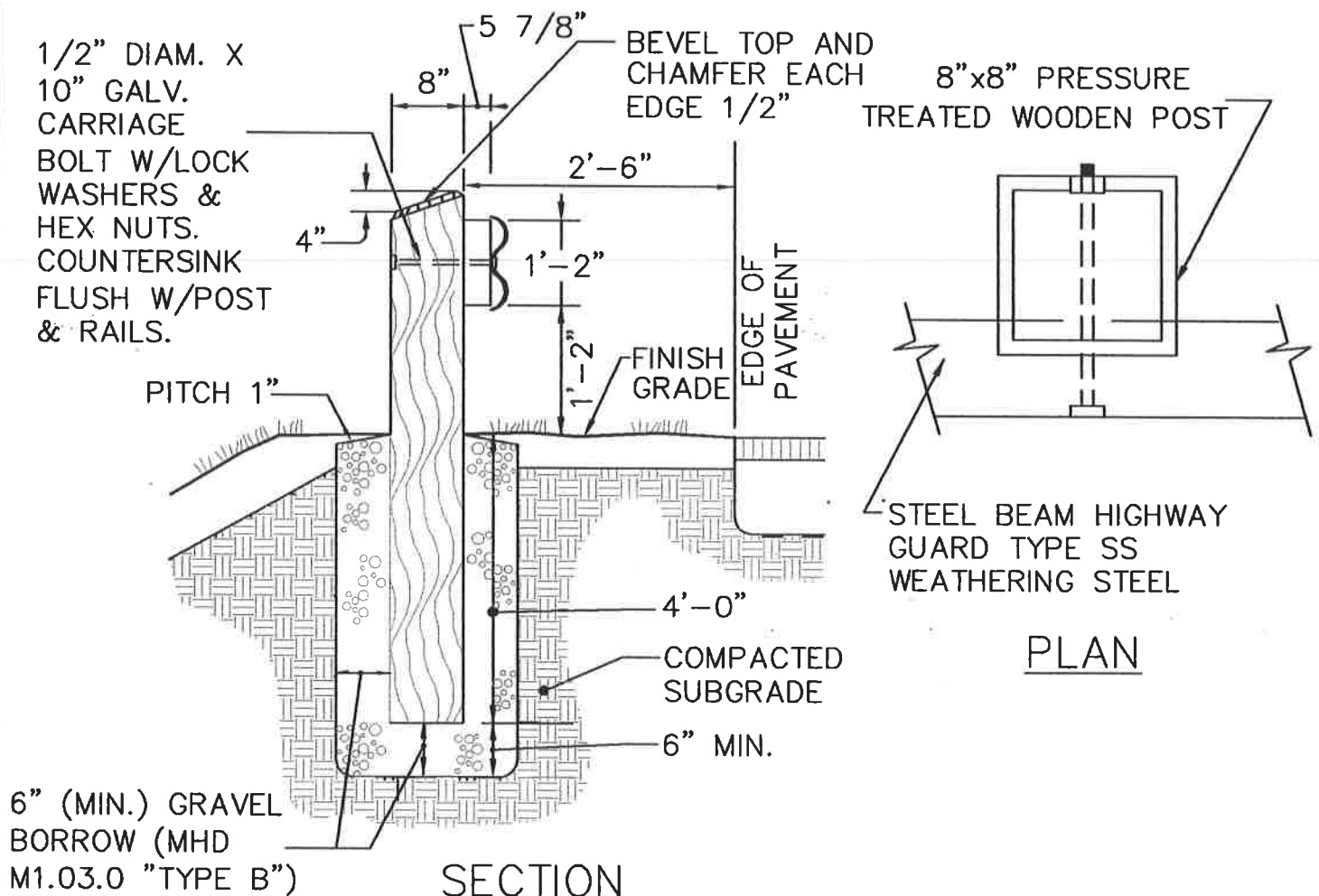
NOTES:

1. ALL SPECIFIED THICKNESSES SHALL BE A COMPACTED THICKNESS.
2. MUST MEET EXISTING PAVEMENT THICKNESS OR 2" BINDER AND 1 1/2" TOP, WHICHEVER IS THICKER.
3. ALL UNSUITABLE MATERIAL MUST BE REMOVED TO A LOCATION WITHIN THE TOWN OF RAYNHAM AS DESIGNATED BY HIGHWAY SUPERINTENDENT OR HIS AGENT.
4. AT THE OPTION OF THE HIGHWAY SUPERINTENDENT, ALL MATERIAL REMOVED FROM TOWN PROPERTY SHALL REMAIN THE PROPERTY OF THE TOWN. ALL WASTE ASPHALT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
5. ANY TRENCH THAT HAS SETTLED SHALL BE REPAIRED TO SMOOTH AND CONSISTANT GRADE AS DIRECTED BY HIGHWAY SUPERINTENDENT.

TRENCH RESTORATION

NOT TO SCALE

TrenchRest

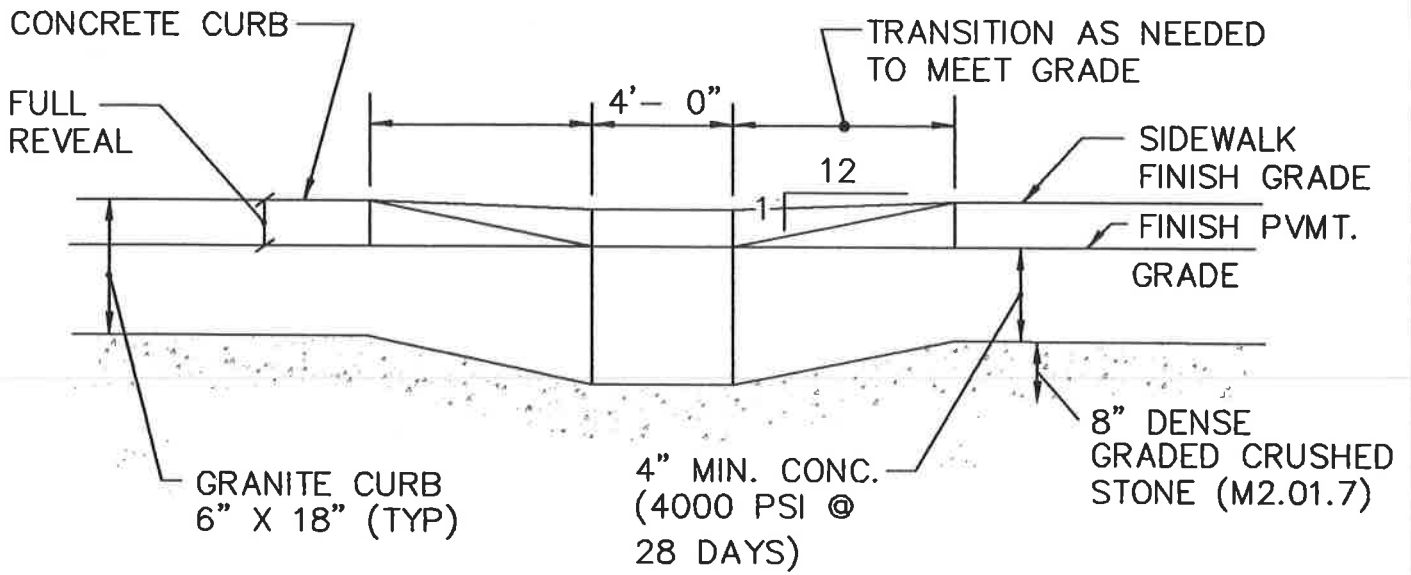


NOTES:

1. ALL WOOD SHALL BE SELECT STRUCTURAL GRADE SOUTHERN YELLOW PINE OR DOUGLAS FIR, S - 4 - S.
2. ALL WOOD SHALL BE FULL CELL PROCESS PRESSURE TREATED IN ACCORDANCE AWPB - LP33.
3. SPACE POSTS 7'-9" O.C. MAXIMUM.
4. RAIL ENDS SHALL BE BURIED OR HAVE A TERMINAL SECTION.
5. GUARD RAIL AND POST SHALL COMPLY WITH MHD STANDARD SPECIFICATIONS M8.07.0.

TIMBER GUARD RAIL

NOT TO SCALE



ELEVATION

APEX WHEELCHAIR RAMPS SHALL BE PERMITTED WITH HIGHWAY DEPARTMENT APPROVAL

SIDEWALK AND/OR PLANTING STRIP (AS SHOWN ON PLANS TYP.)

2% MAX SIDEWALK CROSS SLOPE (1.6% MAX - MHD)

RAMPS AND LANDING SHALL BE 4" CONCRETE (AIR-ENTRAINED 4000psi, 3/4", 610)

12:1 SLOPE (MAX)

4' MIN LANDING

PLAN

12 : 1 SLOPE (MAX)

STOP LINE

5.0'

8.0' CROSSWALK

6.0' MIN

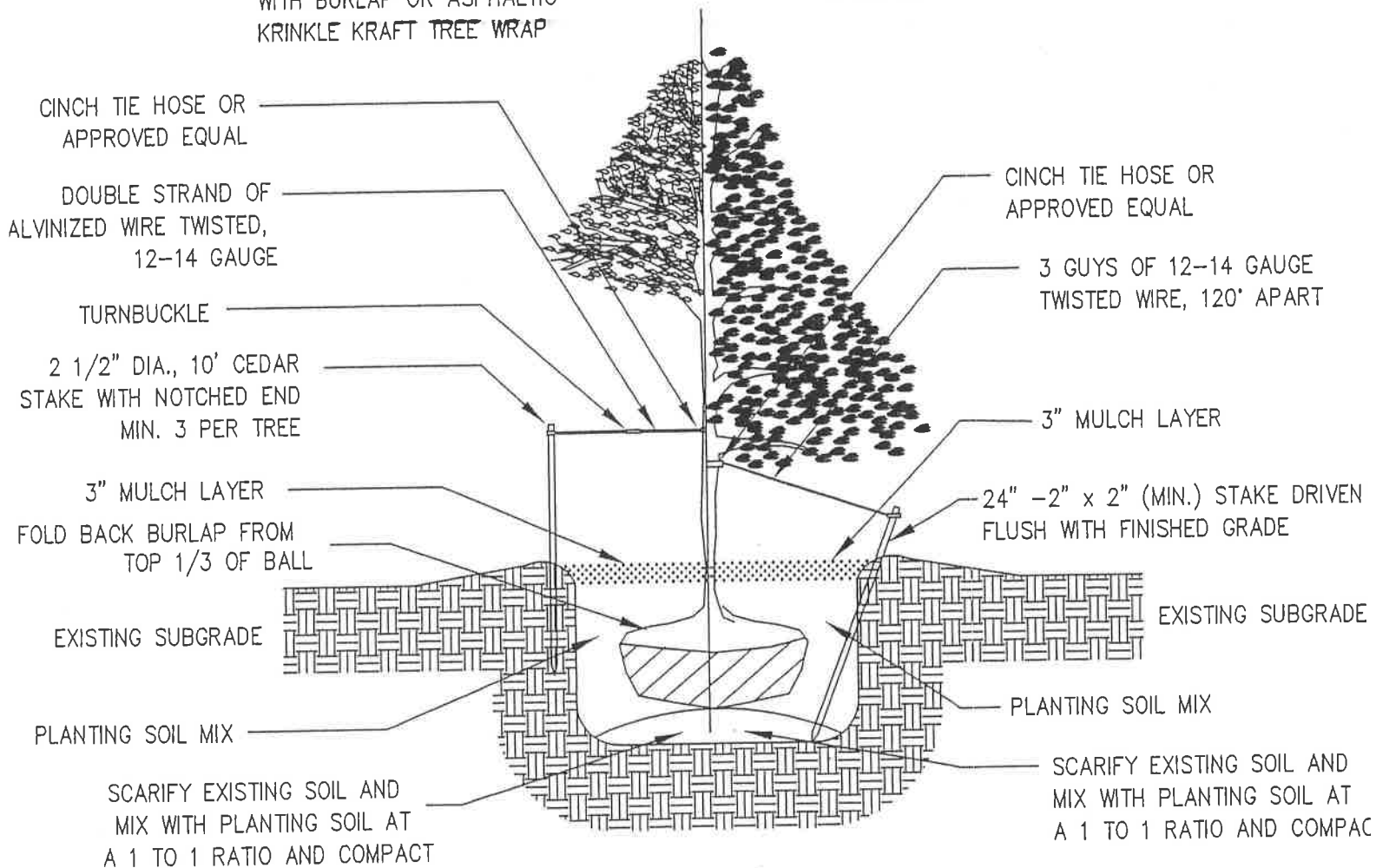
WHEELCHAIR RAMP DETAIL-CORNER

NOT TO SCALE

CORNRAMP

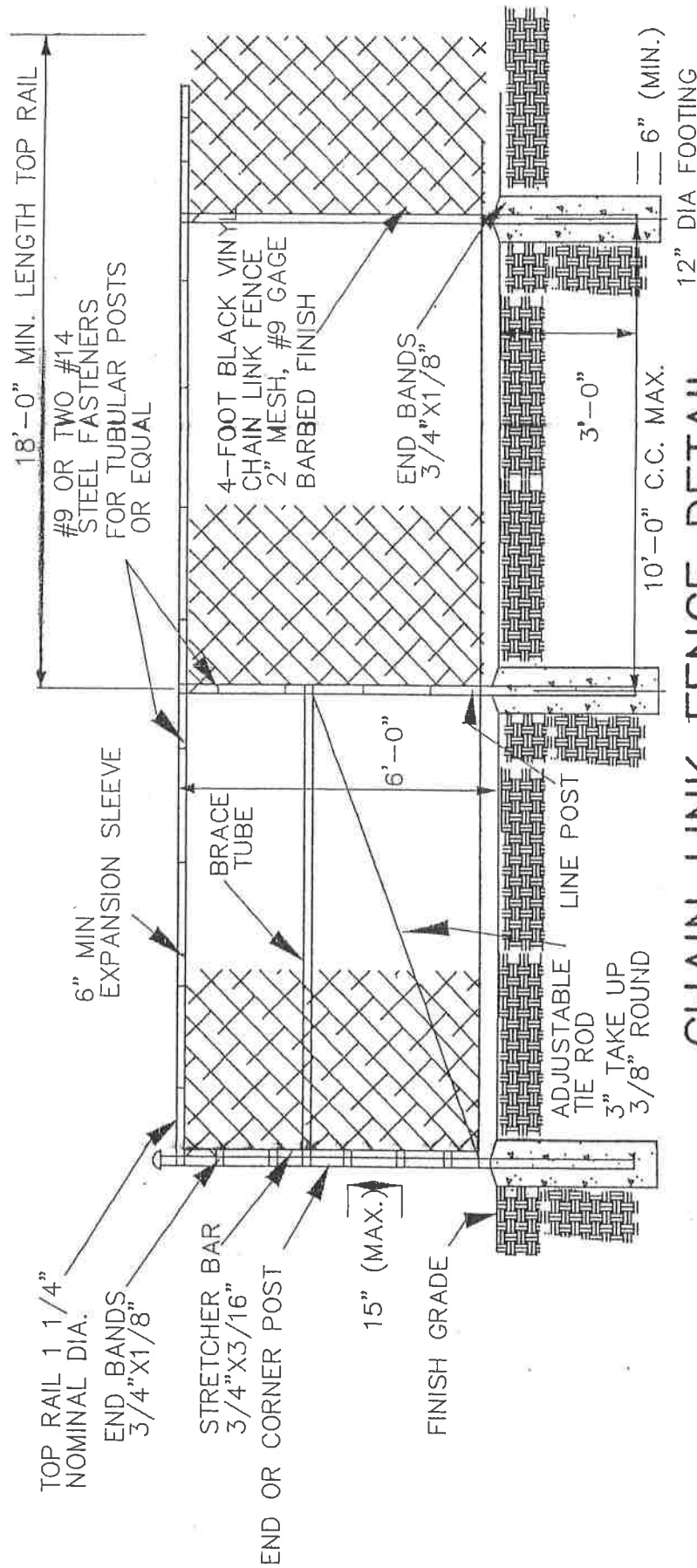
DECIDUOUS TREE -- PRUNE BACK 1/4"
ON SITE; WRAP TREES OVER 1" CAL.
WITH BURLAP OR ASPHALTIC
KRINKLE KRAFT TREE WRAP

EVERGREEN TREE -- GROUNDLINE
TO BE THE SAME AS EXISTED AT
THE NURSERY



DECIDUOUS AND EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE



CHAIN LINK FENCE DETAIL

NOT TO SCALE

