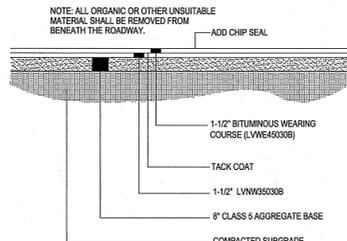
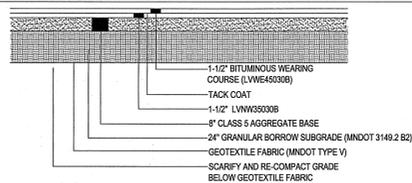


- 1. SLOPE 3/4" PER FOOT. ALL CURBS SHALL BE IN-FLOW.
- 2. SLOPE 3/4" PER FOOT OUTWARD FOR OUT-FLOW.
- 3. PROVIDE LONGITUDINAL JOINT WHEN ADJACENT TO RIGID PAVEMENT OR BASE.

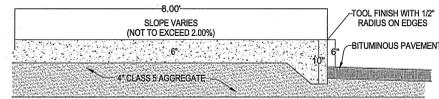
55-30 CONCRETE CURB AND GUTTER
SCALE=N.T.S.



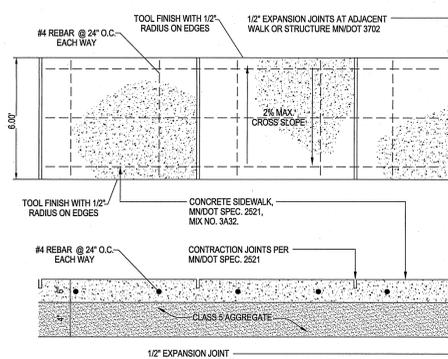
TYPICAL BITUMINOUS REPLACEMENT SECTION
SCALE=N.T.S.



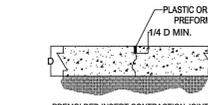
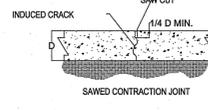
TYPICAL BITUMINOUS PAVEMENT SECTION FOR PARKING LOT
SCALE=N.T.S.



CONCRETE INTEGRAL SIDEWALK DETAIL
SCALE=N.T.S.

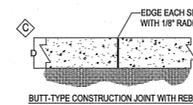
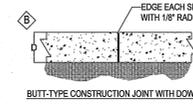
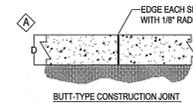


TYPICAL CONCRETE SIDEWALK DETAIL
SCALE=N.T.S.



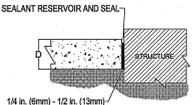
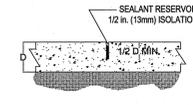
NOTE: TO BE USED TO CONTROL RANDOM CRACKING WITHIN CONCRETE SLAB.

CONTRACTION JOINT
SCALE=N.T.S.



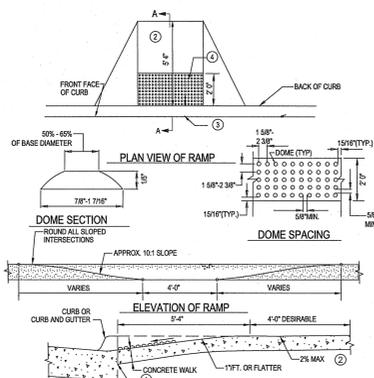
NOTE: TO BE USED AS STOPPING PLACES IN THE PROCESS OF CONSTRUCTION. TYPE A AND B CAN BE USED AS CONTRACTION JOINTS.

CONSTRUCTION JOINT
SCALE=N.T.S.



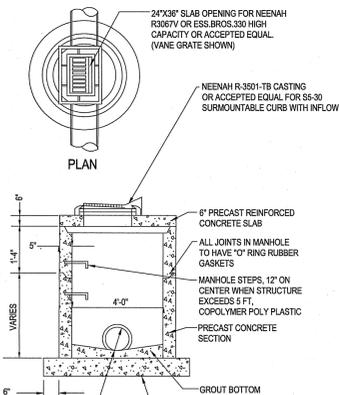
NOTE: TO BE USED WHERE CONCRETE IS ADJACENT TO STRUCTURES ON MORE THAN ONE FACE OF THE SLAB.

ISOLATION/EXPANSION JOINT
SCALE=N.T.S.



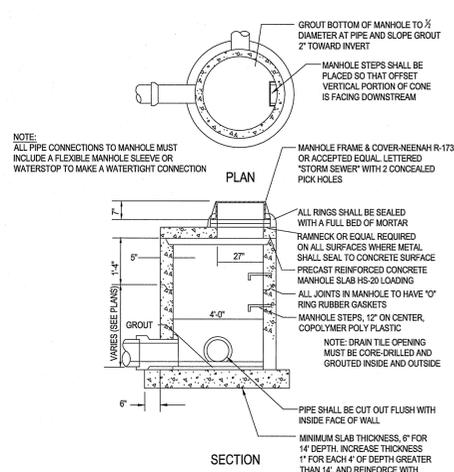
- NOTES:
1. 1/2" PREFORMED JOINT FILLER MATERIAL.
 2. WHEN POSSIBLE, PROVIDE CLEAR PATH OF TRAVEL 4" WIDE BEHIND THE PEDESTRIAN RAMP. NO SIGNALS, SIGNS, CABINETS, OR OTHER OBSTRUCTIONS ARE ALLOWED IN THE RAMP OR PATH OF TRAVEL.
 3. PLACE THE DETECTABLE WARNING (TRUNCATED DOMES) AT THE BACK OF CURB. THE CURB SHALL BE IMPROVED TO FIT THE DOME.
 4. ADA TRUNCATED DOME AREA SHALL BE 2" MIN. IN DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP. TRUNCATED DOME AREA SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE.
 5. TRUNCATED DOME SHALL BE OF CAST IRON MATERIAL.
 6. SEE MNDOT STANDARD PLATE 7099 FOR ADDITIONAL REQUIREMENTS.

CONCRETE PEDESTRIAN RAMP
SCALE=N.T.S.



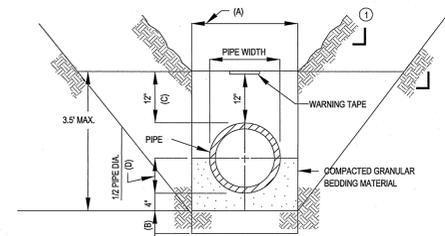
NOTE: DRAIN TILE OPENING MUST BE CORE-DRILLED AND GROUDED INSIDE AND OUTSIDE.

CATCH BASIN MANHOLE
SCALE=N.T.S.



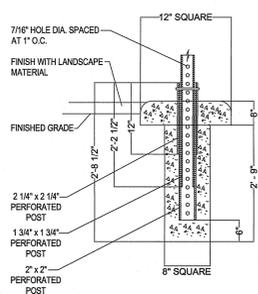
NOTE: ALL PIPE CONNECTIONS TO MANHOLE MUST INCLUDE A FLEXIBLE MANHOLE SLEEVE OR WATERSTOP TO MAKE A WATERTIGHT CONNECTION.

STORM SEWER JUNCTION MANHOLE
SCALE=N.T.S.



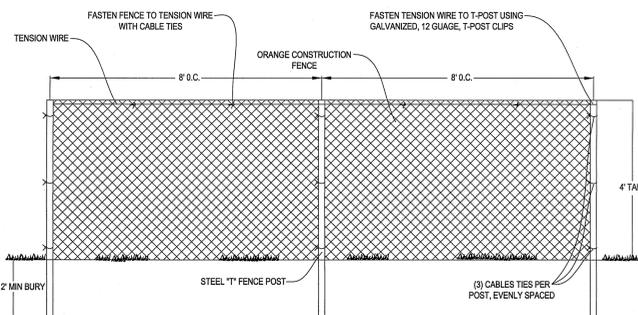
1. 0-12" DEPTH TRENCH. SLOPE DEPENDS ON SOIL TYPE.
2. 0-30" DEPTH TRENCH. SUPPORT OR SHIELD SYSTEM CAN BE UTILIZED TO REDUCE TRENCH WIDTH.
- (A) MINIMUM TRENCH WIDTH SHALL ALLOW FOR SIX INCHES CLEARANCE ON EACH SIDE OF PIPE JOINT HUB.
- (B) THE TRENCH MAY BE OVEREXCAVATED A MIN. OF 6" & BACKFILLED WITH COMPACTED GRANULAR MATERIALS WHEN ROCK, INCOMPRESSIBLE MATERIALS, OR UNSTABLE SOILS ARE ENCOUNTERED.
- (C) COMPACTED GRANULAR ENCASUREMENT MATERIAL SHALL COVER THE TOP OF PIPE BY AT LEAST 12" AND EXTEND THE FULL WIDTH OF THE TRENCH OR AT LEAST 12" TIMES THE PIPE DIAMETER ON EACH SIDE OF THE PIPE.
- (D) BEDDING AND HANCHING MATERIAL SHALL BE PLACED AND COMPACTED TO PROVIDE FULL SUPPORT FOR THE LENGTH OF THE PIPE.

TYPICAL PIPE BEDDING DETAIL
SCALE=N.T.S.



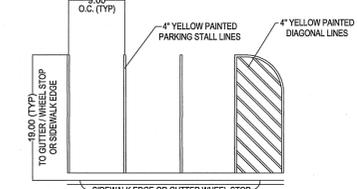
- MATERIALS:**
1. PERFORATED POSTS SHALL BE SQUARE TUBE FORMED FROM 0.108 U.S.S. GAUGE ASTM A-366 COLD ROLLED CARBON STEEL. THE SQUARE TUBES SHALL BE WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL. THE POSTS SHALL BE EXTERNALLY SCARIFIED TO AGREE WITH STD. CORNER RADI OF 5/32" TO 1/8".
 2. PERFORATED POSTS SHALL BE GALVANIZED TO CONFORM TO ASTM A-525. COATING DESIGNATION G-90.
 3. ALL HARDWARE SHALL CONFORM TO ASTM A-307 CLASS A.
 4. ALL HARDWARE SHALL BE GALVANIZED TO CONFORM TO ASTM A-153 OR CADMIUM PLATED TO CONFORM TO ASTM A-185.
 5. ALL CONCRETE SHALL BE 2500 PSI.
- NOTES:**
1. FOUNDATION WILL BE CONSTRUCTED WITH 1 3/4" x 1 3/4" STARTER SIGN POST. STARTER SIGN POST SHALL BE REMOVED AFTER CONCRETE HAS SET AND EXPOSED SQUARE TUBING WRAPPED AND SEALED WITH DUCT TAPE.
 2. FOUNDATION LOCATED 1" FROM EDGE OF PAVEMENT.
 3. FOUNDATION LOCATION TO BE APPROVED BY V.A.
 4. POST FOUNDATIONS SHALL BE PERPENDICULAR TO THE PAVED SURFACE.
 5. BOLT WITH NUT AND LOCK WASHER TO BE 7/16" x 3" GALVANIZED.
 6. REFER TO SITE PLAN FOR POST LOCATION.

SIGN POST DETAIL SQUARE TUBE FOUNDATION
SCALE=N.T.S.



- NOTES:**
- CONTRACTOR SHALL COORDINATE ACCESS THROUGH CONSTRUCTION FENCE WITH DAILY CONSTRUCTION ACTIVITY. ALL ENTRANCES/ OPENINGS IN FENCE SHALL BE ENCLOSED AT THE END OF EACH WORKING DAY.
- PROVIDE TEMPORARY T-POST FOR ENTRANCES/ OPENINGS AND SECURELY FASTEN FENCE TO TEMPORARY T-POST. ENCLOSE OPENING WHILE NOT IN USE.

ORANGE CONSTRUCTION FENCE DETAIL
SCALE=N.T.S.



- NOTES:**
1. SEE SITE PLAN FOR PARKING BAY WIDTHS AND STALL LAYOUT.
 2. SEE V.A. BARRIER FREE DESIGN HANDBOOK H-08-13 FOR ACCESSIBLE SPACE QUANTITIES AND SIGNAGE.

PARKING STALL STRIPING DETAIL
SCALE=N.T.S.

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Drawing Title
Details

Approved

Daniel J. Folsom
Daniel J. Folsom License# 23897

Project Title

Replace Parking Lost Due to Construction

Location

St. Cloud VA Health Care System

Date

April 4, 2012

Checked

DJF

Drawn

RJK

Date

April 4, 2012

Project Number

656-12-214

Building Number

Drawing Number

C10

Dwg. 2 of 9

100% CDs - For Construction

