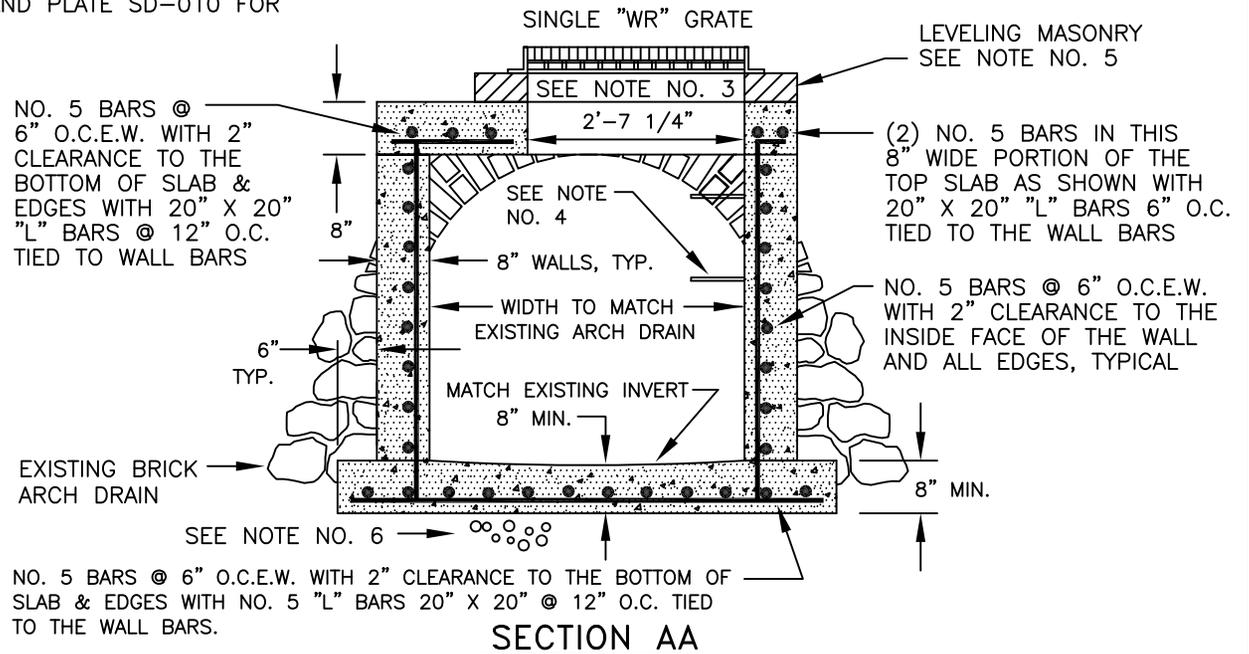
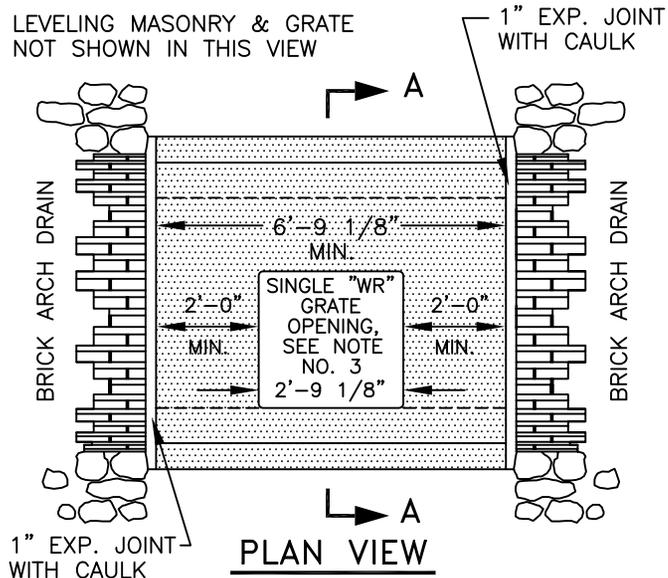


NOTES

1. SAW CUT AND REMOVE THE EXISTING BRICK ARCH DRAIN AND INVERT TO ACCOMMODATE THE PROPOSED STORM DRAIN STRUCTURE AND (2) 1" EXPANSION JOINTS.
2. REPAIR AND REPOINT ALL MASONRY AT THE ENDS OF DEMOLITION AND FASTEN 1" EXPANSION JOINT MATERIAL TO SEPARATE THE BRICK ARCH DRAIN FROM THE PROPOSED CONCRETE STORM DRAIN STRUCTURE AT BOTH ENDS. POSITION THE EXPANSION JOINT MATERIAL TO ALLOW FOR A 1/2" DEEP BEAD OF CAULK ON THE OUTSIDE OF THE ENTIRE BRICK ARCH DRAIN AT BOTH ENDS OF THE NEW CONCRETE STORM DRAIN STRUCTURE. CAULK SHALL BE A TWO PART ELASTOMERIC GUN-GRADE POLYSULFIDE SEALANT, SONNEBORN SONOLASTIC OR EQUAL.
3. THE OPENING SHOWN IN THE TOP SLAB OF THE STRUCTURE IS FOR A MD DEPT. OF TRANS. S.H.A. MD-374.02 & MD-374.03 SINGLE "WR" INLET FRAME & GRATE. THIS OPENING SHALL HAVE 1" RADIUS CORNERS AND THE REQUIRED ANCHOR BOLTS SHALL BE INSTALLED AS A PART OF THE TOP SLAB CONCRETE CONSTRUCTION. FORM A 2'-0" DIAMETER CIRCULAR HOLE AT THE SAME LOCATION FOR A MD DEPT. OF TRANS. S.H.A. MD-383.31 & MD-383.32 STANDARD MANHOLE TYPE "A" FRAME AND COVER.
4. REFER TO PLATE SD-012 FOR STEP INFORMATION AND PLATE SD-010 FOR ADDITIONAL CONSTRUCTION INFORMATION.
5. IF THE FRAME & GRATE OR THE FRAME & COVER ARE NOT AT GRADE MOUNTED ON THE STRUCTURE TOP SLAB USE CONCRETE MASONRY SOLIDS IN MORTAR CEMENT OR PRECAST LEVELING RINGS TO GRADE.
6. THE STRUCTURE SUBGRADE SHALL BE A MINIMUM OF 6" DEPTH MD DEPT. OF TRANS. S.H.A. NO. 57 STONE AGITATED IN PLACE TO GRADE AS PER PLATE SD-011 ON FIRM UNDISTURBED SOIL.
7. PRECAST STRUCTURES ARE PERMISSIBLE PROVIDED SHOP DRAWINGS SIGNED AND SEALED BY A MARYLAND PROFESSIONAL ENGINEER ARE SUBMITTED AND APPROVED BY THE CITY ENGINEER.
8. STRUCTURE CONCRETE SHALL ATTAIN 70% OF ITS DESIGN COMPRESSIVE STRENGTH BEFORE BACKFILL OPERATIONS PROCEED. ALL CONCRETE SHALL BE MD DEPT. OF TRANS. S.H.A. MIX NO. 3 WITH A 28 DAY COMPRESSIVE STRENGTH OF 3,500 P.S.I.
9. AFTER THE CAULK JOINTS ARE INSTALLED ANY OPENINGS THAT EXIST IN THE EXPOSED BRICK ARCH DRAIN OR AT THE ENDS OF THE CONCRETE STRUCTURE SHALL BE SEALED WITH NON-SHRINK GROUT.



CITY OF HAGERSTOWN, MARYLAND – ENGINEERING AND INSPECTIONS DEPARTMENT

STORM DRAIN STANDARD DETAIL SINGLE "WR" INLET/MANHOLE BUILT INTO A BRICK ARCH DRAIN

ISSUE DATE: _____	
REVISIONS	
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Plate SD-042