

Example

Plan Note for Historical Resource

ODOT- District 8

Plan Sheet Note for No Adverse Effect on Bridge

ESTIMATED QUANTITIES

COMPUTED BY: BAR DATED: 4/21/11

CHECKED BY: KJJ DATED: 4/21/11

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	GEN	ABUT	PIER	SUPER	SEE SHEET NO.
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING	LUMP				
601	32104	105	CU YD	ROCK CHANNEL PROTECTION, TYPE B WITH FABRIC FILTER	105				
602	97000	4,620	SQ FT	MASONRY, MISC.: STONE AND BRICK REPAIR FOR HISTORIC ARCH STRUCTURE		4,620			2/3

GENERAL NOTES:

DESIGN SPECIFICATIONS

THE REHABILITATED PORTIONS OF THIS STRUCTURE CONFORM TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2007, INCLUDING THE 2009 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

LOAD MODIFIER FOR OPERATIONAL IMPORTANCE

OPERATIONAL IMPORTANCE: A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN LOADING

UNKNOWN

DESIGN STRESSES

DESIGN DATA:
MORTAR - COMPRESSIVE STRENGTH TO MATCH EXISTING
(SEE ITEM 602 NOTE FOR MORE INFORMATION)

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

ITEM 602 - MASONRY, MISC.: STONE AND BRICK REPAIR FOR HISTORIC ARCH STRUCTURE

PROVISIONS OF ITEM 602 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES.

1. TUCK POINT ALL BRICK AND STONE MORTAR JOINTS THAT ARE CRACKED, DETERIORATED, OR SHOWING EFFLORESCENCE TO THE SATISFACTION OF THE ENGINEER. THE ENTIRE SURFACES OF THE ARCH AND WINGWALLS HAVE BEEN INCLUDED IN THE CALCULATED QUANTITIES, HOWEVER IT IS UNDERSTOOD THAT THERE ARE LARGE AREAS THAT DO NOT REQUIRE REPAIR. DETERIORATED AREAS FOUND DURING THE MOST RECENT STRUCTURE INSPECTION ARE SHOWN ON PAGE 3 OF 3. WHERE TUCK-POINTING IS REQUIRED, THE DEPTH OF THE TUCK-POINTING SHALL BE 2 TO 2.5 TIMES THE THICKNESS OF THE JOINT. CARE SHALL BE TAKEN WHEN REMOVING THE EXISTING JOINTS TO ENSURE THAT THE EXISTING BRICKS AND STONES ARE NOT DAMAGED. DAMAGED BRICKS AND STONES WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ALL JOINTS AND SURROUNDING STONES SHALL BE MISTED OR WETTED FOR AT LEAST AN HOUR PRIOR TO POINTING. THE TOOLED FINISH SHALL MATCH THAT OF THE EXISTING TOOLED FINISH.

2. THE CONTRACTOR IS TO OBTAIN A SAMPLE OF THE ORIGINAL BRICK MORTAR AND THE ORIGINAL STONE WALL MORTAR AND SEND A SAMPLE OF EACH TO THE US HERITAGE GROUP (OR SIMILAR APPROVED MORTAR ANALYSIS ENTITY) TO DETERMINE THE MAKE-UP AND STRENGTH OF THE EXISTING MORTARS. USE A LIME BASED MORTAR CLOSELY MATCHING THE RESULTS OF THE MORTAR COMPOSITION AND STRENGTH ANALYSIS. THE SAND USED IN THE MORTAR SHALL BE ROUNDED OR NATURAL SAND. CRUSHED OR MANUFACTURED SAND SHALL NOT BE USED. THE COLOR OF THE PROPOSED SAND SHALL MATCH THE EXISTING MORTAR.

3. THE CONTRACTOR SHALL REMOVE AREAS OF DETERIORATED STONE TO SOLID STONE WHERE INDICATED IN THE PLANS AND IN AREAS AS DIRECTED BY THE ENGINEER. WHERE DETERIORATION EXCEEDS 6" IN DEPTH, THE CONTRACTOR SHALL PROVIDE NEW STONES OF SIMILAR COMPOSITION SIZED TO MATCH THE PORTIONS REMOVED. THESE SHALL BE MORTARED IN PLACE ON ALL CONTACT SURFACES. FINAL PAY QUANTITIES SHALL BE BASED UPON THE REPAIRED AREAS AS DIRECTED AND ACCEPTED BY THE ENGINEER.

4. CLEAN THE BRICK SURFACES AND MORTAR SURFACES OF EFFLORESCENCE AND DIRT SUFFICIENT FOR INSPECTION BY THE ENGINEER. ONLY A LOW PRESSURE WATER BLAST AND HAND SCRUBBING WITH A NATURAL BRISTLE BRUSH ARE PERMITTED. DETERGENTS, HIGH PRESSURE, OR ABRASIVE BLASTS ARE NOT PERMITTED.

5. THE CONTRACTOR IS TO REMOVE AND REPLACE DETERIORATED OR CRACKED BRICKS. REPLACEMENT BRICKS SHALL BE OF SIMILAR COMPOSITION AS THE EXISTING AND SHALL BE MORTARED IN PLACE ON ALL CONTACT SURFACES. AREAS OF BRICK REPLACEMENT SHOWN IN THE PLANS ARE APPROXIMATE IN NATURE. FINAL REPAIR AREAS AND FINAL PAY QUANTITIES ARE TO BE AS DIRECTED BY THE ENGINEER.

6. THE TUCK-POINT CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN REPOINTING STRUCTURES AND SHALL HAVE COMPLETED A MINIMUM OF 5 REPOINTING PROJECTS ON HISTORIC STRUCTURES. REFERENCES OF PAST PROJECTS SHALL BE PROVIDED. UNSATISFACTORY REFERENCES SHALL BE MEANS FOR DISQUALIFICATION OF THE CONTRACTOR'S TUCK-POINT SUBCONTRACTOR.

7. MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE AREAS OF STONE AND BRICK REPAIR BY THE SQUARE FOOT. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF STONE AND BRICK REPAIR AT THE CONTRACT PRICE FOR ITEM 602, MASONRY, MISC.: STONE AND BRICK REPAIR FOR HISTORIC ARCH STRUCTURE.

DESIGN AGENCY:
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DATE: 4/21/11
 REVIEWED: JBD
 STRUCTURE FILE NUMBER: 3105792

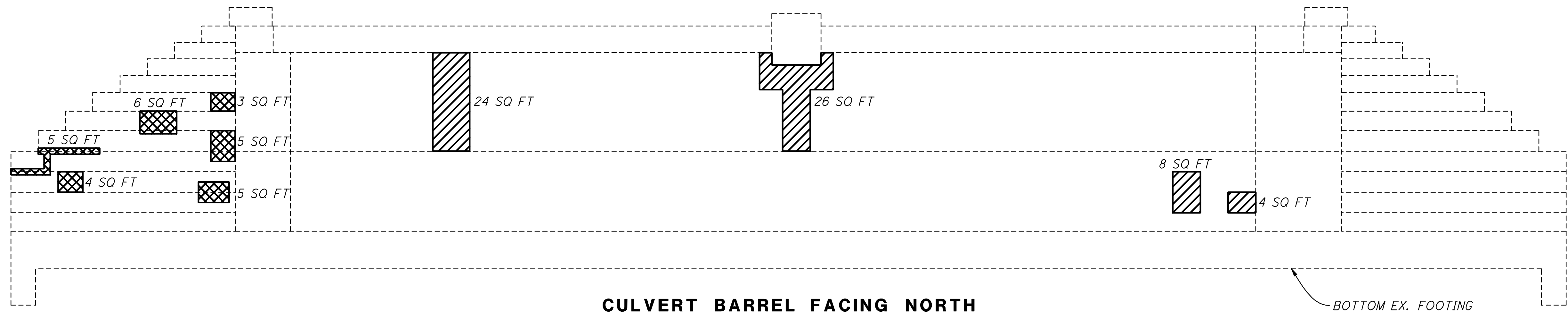
DRAWN: BAR
 CHECKED: KJJ
 REVISED:

GENERAL NOTES AND ESTIMATED QUANTITIES
 BRIDGE NO. HAM-52-3257
 US-52 OVER LICK RUN

HAM - 52 - 32.57
PID No. 77907

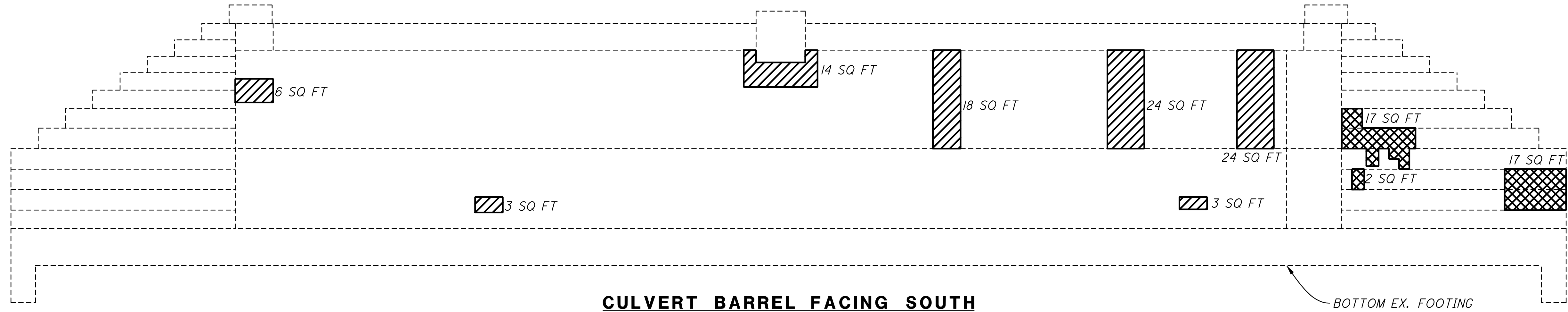
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 29



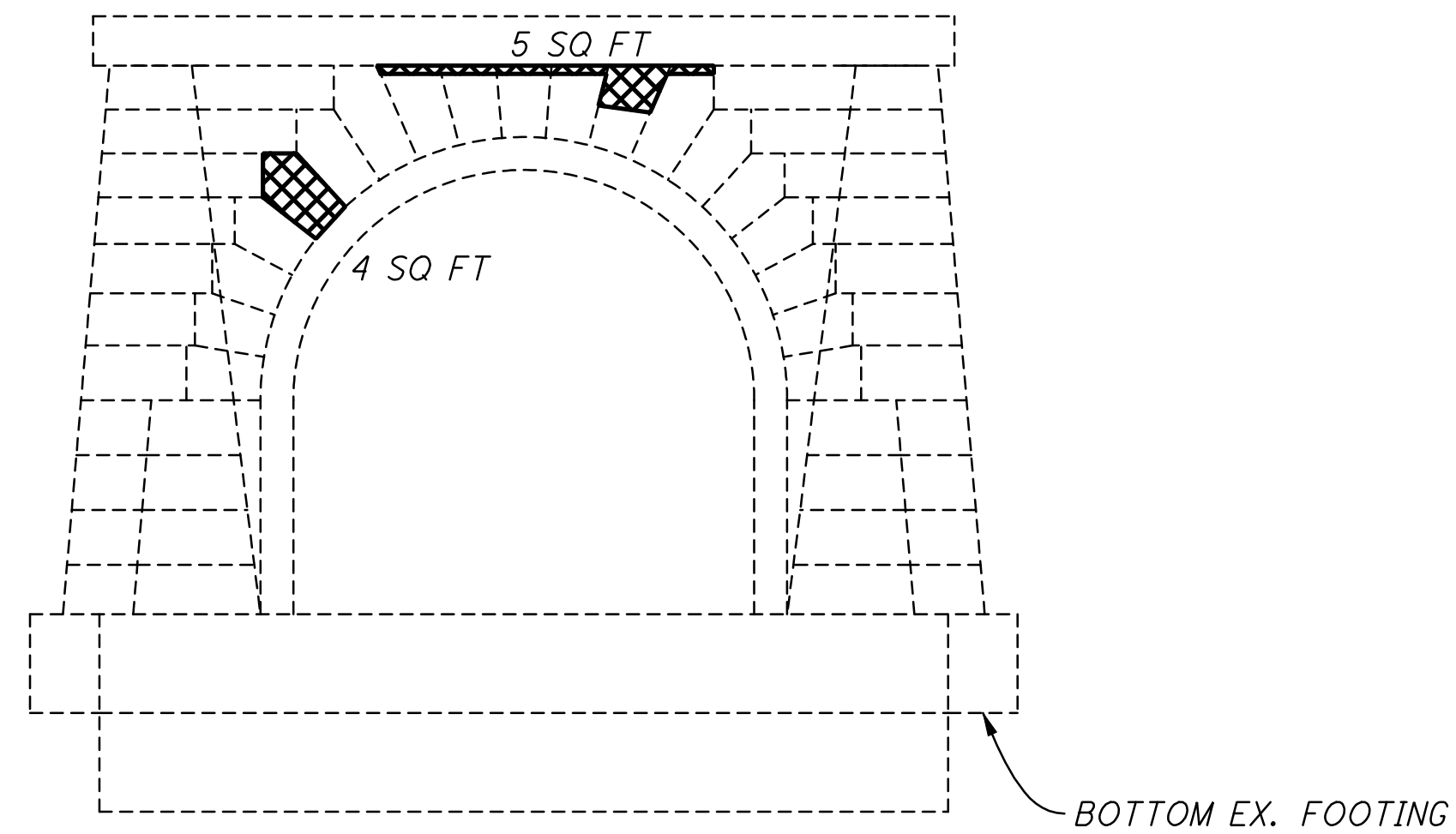
CULVERT BARREL FACING NORTH

BOTTOM EX. FOOTING



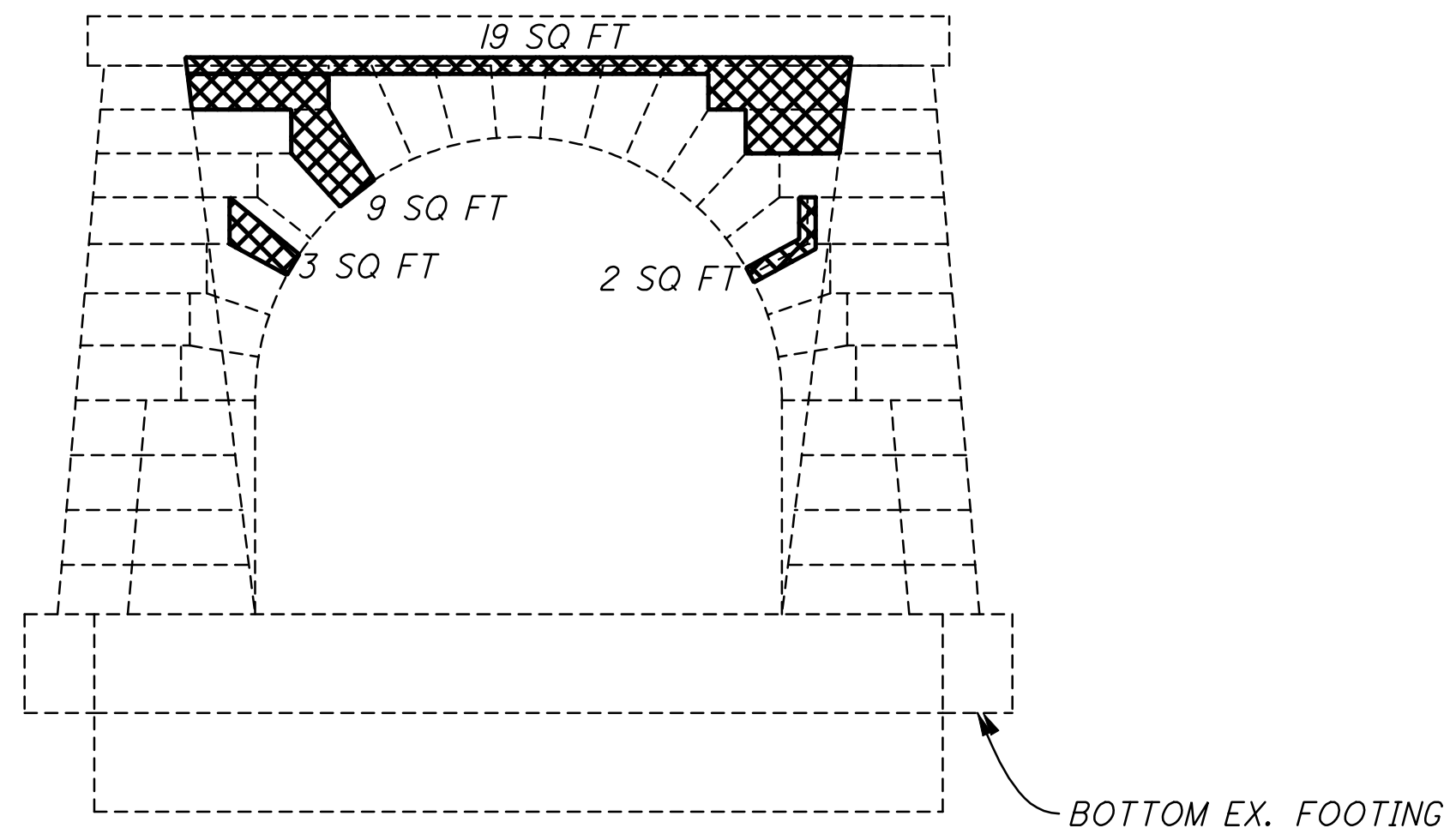
CULVERT BARREL FACING SOUTH

BOTTOM EX. FOOTING



WEST ELEVATION
(OUTLET)

BOTTOM EX. FOOTING



EAST ELEVATION
(INLET)

BOTTOM EX. FOOTING

LEGEND

INDICATES APPROXIMATE LIMITS OF STONE REPAIR INCLUDED IN ITEM 602 - MASONRY, MISC.: STONE AND BRICK REPAIR FOR HISTORIC ARCH STRUCTURE. FINAL REPAIR AREAS ARE TO BE AS DIRECTED BY THE ENGINEER.

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ITEM 602 - MASONRY, MISC.: STONE AND BRICK REPAIR FOR HISTORIC ARCH STRUCTURE INSPECTED 2-17-2010

LOCATION	MEASURED AREA (2010)	PROJECTION FACTOR	REPAIR AREA (2013)
NORTH BARREL	90 SQ FT	1.10	99 SQ FT
SOUTH BARREL	128 SQ FT	1.10	141 SQ FT
EAST ELEVATION	33 SQ FT	1.10	37 SQ FT
WEST ELEVATION	9 SQ FT	1.10	10 SQ FT
TOTAL			287 SQ FT