

## KIMBERLY RIDGE ROAD CULVERT I

### CONSTRUCTION INSPECTION CHECK-OFF LIST FOR BOTTOMLESS ARCH CULVERT

STAGE	DESIGN ENGINEER (DE)	GEOTECHNICAL ENGINEER (GEO)	COUNTY INSPECTOR	MDE & OTHER
* MANDATORY NOTIFICATION: INSPECTION AND APPROVAL BY THE PARTIES INDICATED IS REQUIRED AT THESE POINTS PRIOR TO PROCEEDING WITH CONSTRUCTION. THE PERMITTEE IS REQUIRED TO GIVE THE REQUIRED INSPECTION PARTIES TWENTY-FOUR (24) HOURS NOTICE (I&P TELEPHONE 410-222-7000). THE I&P INSPECTOR MAY WAIVE AN INSPECTION, PROVIDED THE DESIGN ENGINEER AND/OR GEOTECHNICAL ENGINEER MAKES THE REQUIRED INSPECTION PER A PRIOR SCHEDULED ARRANGEMENT WHICH HAS BEEN CONFIRMED WITH THE I&P INSPECTOR. WORK COMPLETED WITHOUT THE NECESSARY PARTY'S APPROVAL MAY RESULT IN THE PERMITTEE HAVING TO REMOVE AND RECONSTRUCT THE UNAPPROVED WORK. THE PERMITTEE MUST MAINTAIN A "RECORD SET" OF APPROVED PLANS ON-SITE, AND A COPY OF THIS COMPLETED CHECKLIST MUST BE SUBMITTED WITH THE AS-BUILT DOCUMENTATION.	FIRM NAME:	FIRM NAME:		
	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
PRIOR TO FABRICATION AND DELIVERY, REVIEW AND APPROVAL ALL SHOP DRAWINGS, MATERIAL SPECIFICATIONS AND SUPPLIER CERTIFICATIONS.	*	*	*	*
1. PRECONSTRUCTION MEETING. GEOTECH REPORT MUST BE PROVIDED TO ALL INSPECTORS AND CONTRACTORS MIN. 48 HRS. PRIOR TO MTG.	*	*	*	*
2. SEDIMENT CONTROL INSTALLATION AND STREAM DIVERSION.		*	*	*
3. EXCAVATION FOR CAISSON AND SHEET PILE INSTALLATION. (GEO)		*	*	
4. CAISSON AND SHEET PILE INSTALLATION;		*	*	
A. VERIFY CAISSON SPACING AND DRILL DEPTH (GEO)	*	*	*	
B. OBSERVE CAISSON DRILLING, TEMPORARY CASING, REINFORCEMENT AND CONCRETE POUR. (GEO)		*	*	
C. REVIEW RESULTS FROM CONCRETE SLUMP TEST, SLURRY TEST AND OTHER TESTING REQUIRED BY GEOTECH (GEO)		*	*	
D. REVIEW STATIC, BI-DIRECTIONAL LOAD TESTS INCLUDING SKIN FRICTION OF 800 PSF AND END BEARING OF 20,000 PSF (GEO)		*	*	
E. OBSERVE SHEET PILE INSTALLATION TO REQUIRED DEPTH.(GEO)		*	*	
F. REVIEW PILE CAP FORMS, REINFORCEMENT AND OBSERVE CONCRETE POUR.(GEO)		*	*	
G. AT WING WALL, OBSERVE PILE CAP AND SHEET PILE INSTALL WITH SEWER SLEEVE.(GEO)		*	*	
5. INSTALLATION OF ARCH CULVERT, HEADWALLS AND WINGWALLS;	*	*	*	
A. VERIFY PRECAST DIMENSIONS, PRECASTER CERTIFICATIONS, RESULTS OF AIR CONTENT AND STRENGTH TESTS.	*	*	*	
B. OBSERVE LIFTING AND PLACEMENT OF PRECAST UNITS, JOINT SEALANT/GROUT INSTALLATION. (DE)	*		*	
	*		*	*
	*	*	*	*
8. BACKFILLING OF DRAINAGE STRUCTURE (GEO)		*	*	
A. VERIFY BACKFILL MEETS AASHTO REQUIREMENTS. PLACEMENT OF BACKFILL IS PER STRUCTURAL DRAWINGS. (GEO)		*	*	
B. HAND COMPACTING OF BACKFILL IN AREAS WITHIN 1' OF CONCRETE SURFACES AND 1' AROUND SEWER SLEEVE. (GEO)		*	*	
9. PERFORM SETTLEMENT AND HORIZONTAL DISPLACEMENT MONITORING. PROVIDE RESULTS TO AA COUNTY. (DE)	*		*	
10. INSTALLATION OF FINAL COMPACTED COVER AND GRADE		*	*	
A. LIFTS, COMPACTION, SOIL MATERIAL (GEO)		*	*	
B. LOCATION, DIMENSIONS, ELEVATIONS (DE)	*		*	
11. STABILIZE DISTURBED AREA.	*		*	*
12. SUBMIT RECORD DRAWING AND DOCUMENTATION	*	*	*	
13. FINAL INSPECTION.	*	*	*	*

**NOTES:**

1. FOR ALL PRE-CAST STRUCTURES, A DESIGN CERTIFICATION FROM THE MANUFACTURER MUST BE SUPPLIED TO THE DESIGN ENGINEER AND THE COUNTY INSPECTOR PRIOR TO INSTALLATION INDICATING THAT THE STRUCTURE WAS BUILT IN CONFORMANCE WITH DESIGN PLANS.
2. PERMITTEE TO SUPPLY DESIGN ENGINEER WITH DELIVERY TICKETS FOR ALL MATERIALS USED IN ARCH CULVERT, CAISSON AND SHEET PILE CONSTRUCTION.
3. SEE CONSTRUCTION SPECIFICATIONS FOR DETAILED REQUIREMENTS.
4. A COPY OF THIS COMPLETED INSPECTION CHECKLIST MUST BE SUBMITTED AS PART OF THE STRUCTURE AS-BUILT PACKAGE.

I&P INSPECTION TELEPHONE: (410) 222-7000  
MDE INSPECTION TELEPHONE: (410) 537-3510