

PROJECT EARTH DISTURBED AREA: 0.87 ACRES
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.01 ACRES
 NOTICE OF INTENT EARTH DISTURBED AREA: NO NOI REQUIRED

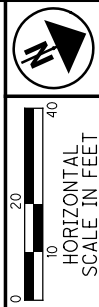
LEGEND (SEE SHEET 3 FOR DETAIL)

- ◊ CONSTRUCTION JOINT
- ◊ EXPANSION JOINT

PROPOSED REHABILITATIONS

1. REMOVE LOOSE ROCK DOWN TO SOLID ROCK
2. REMOVE PORTION OF PREVIOUS FOUNDATION THAT IS CURRENTLY DIRECTING FLOW TOWARDS THE FOOTER
3. EPOXY INJECT CRACKS IN EXISTING ARCH TOPPED CULVERT
5. INSTALL 6" REINFORCED CONCRETE BOTTOM SLAB WITH CONSTRUCTION JOINTS EVERY 20 FEET AND EXPANSION JOINTS EVERY 60 FEET.

NOTES:
 1. SEE SHEET 10 FOR MORE DETAILS CONCERNING PROPOSED WORK ON THE STRUCTURE.

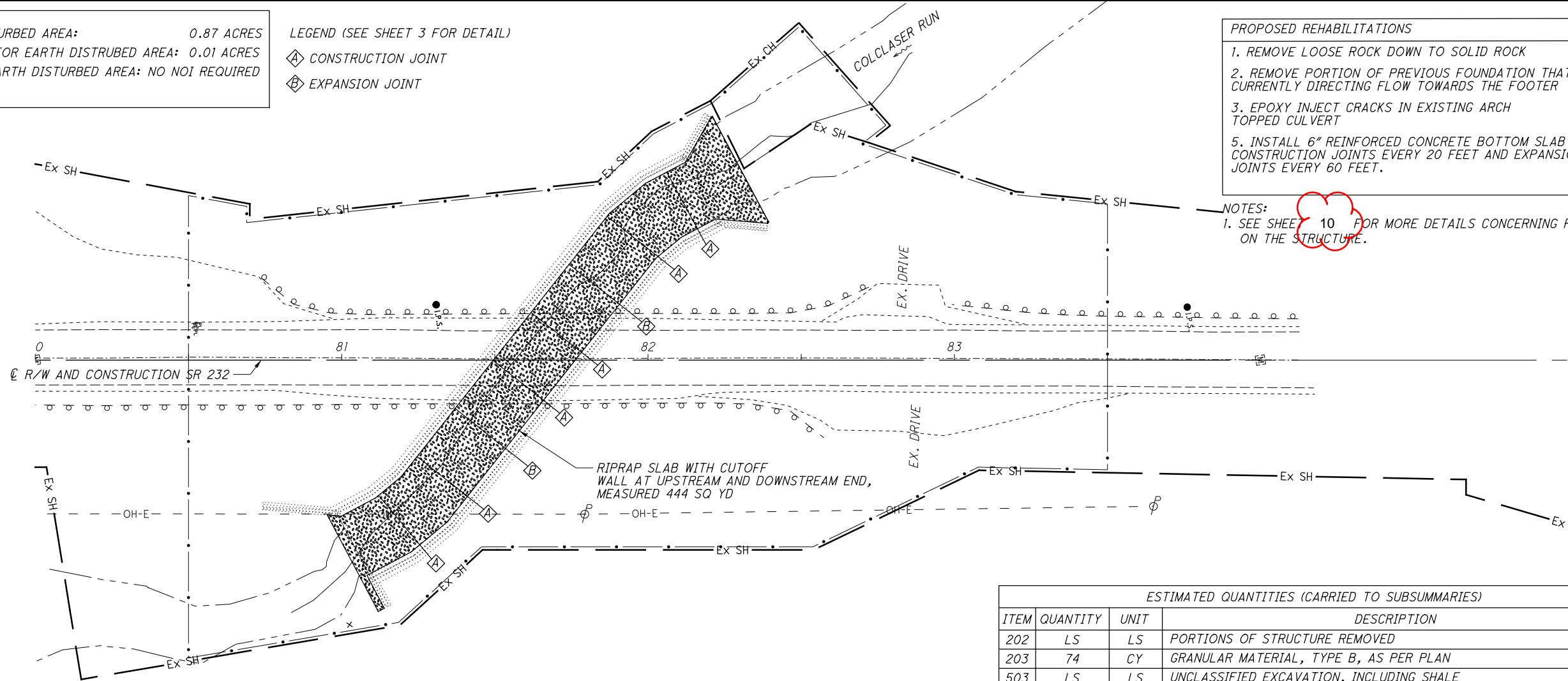


DESIGN AGENCY: STATE OF OHIO
 DEPT. OF TRANSPORTATION
 DISTRICT 8 ENGINEERING

REVIEWED: DATE: _____
 TRB: _____
 STRUCTURE FILE NUMBER: 1304399

DESIGNED: DATE: _____
 MLB: _____
 CHECKED: _____
 TRB: _____

PLAN AND DETAIL
 CULVERT CLE-232-0154
 OVER COLCLASER RUN

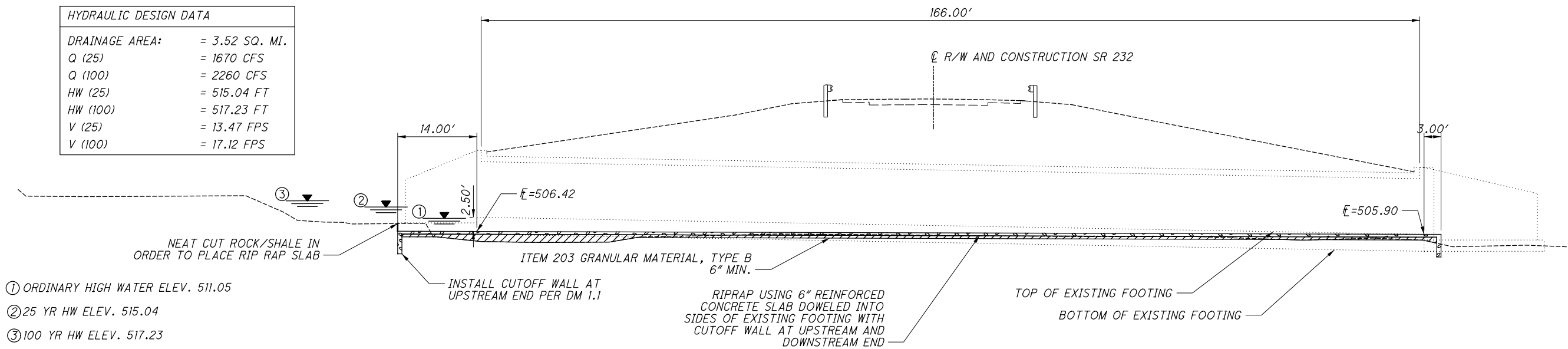


RIPRAP SLAB WITH CUTOFF WALL AT UPSTREAM AND DOWNSTREAM END, MEASURED 444 SQ YD

ESTIMATED QUANTITIES (CARRIED TO SUBSUMMARIES)			
ITEM	QUANTITY	UNIT	DESCRIPTION
202	LS	LS	PORTIONS OF STRUCTURE REMOVED
203	74	CY	GRANULAR MATERIAL, TYPE B, AS PER PLAN
503	LS	LS	UNCLASSIFIED EXCAVATION, INCLUDING SHALE
509	125	LB	EPOXY COATED REINFORCING STEEL
510	222	EA	DOWEL HOLES WITH NONSHRINK NONMETALLIC GROUT, AS PER PLAN
512	50	FT	CONCRETE REPAIR BY EPOXY INJECTION
516	21	SF	1" PREFORMED EXPANSION JOINT FILLER
516	42	FT	JOINT SEALER
601	444	SQ YD	RIPRAP TYPE D, AS PER PLAN

EXISTING STRUCTURE	
TYPE:	CONCRETE ARCH TOP
SIZE:	22'-0" x 10'-0", LENGTH = 166'
SKEW:	28° 58' 56" L.F.
ALIGNMENT:	TANGENT
DATE BUILT:	2001
CONDITION:	GOOD
LATITUDE:	38° 53' 37.13"
LONGITUDE:	84° 12' 27.7"

HYDRAULIC DESIGN DATA	
DRAINAGE AREA:	= 3.52 SQ. MI.
Q (25)	= 1670 CFS
Q (100)	= 2260 CFS
HW (25)	= 515.04 FT
HW (100)	= 517.23 FT
V (25)	= 13.47 FPS
V (100)	= 17.12 FPS



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- ① ORDINARY HIGH WATER ELEV. 511.05
- ② 25 YR HW ELEV. 515.04
- ③ 100 YR HW ELEV. 517.23