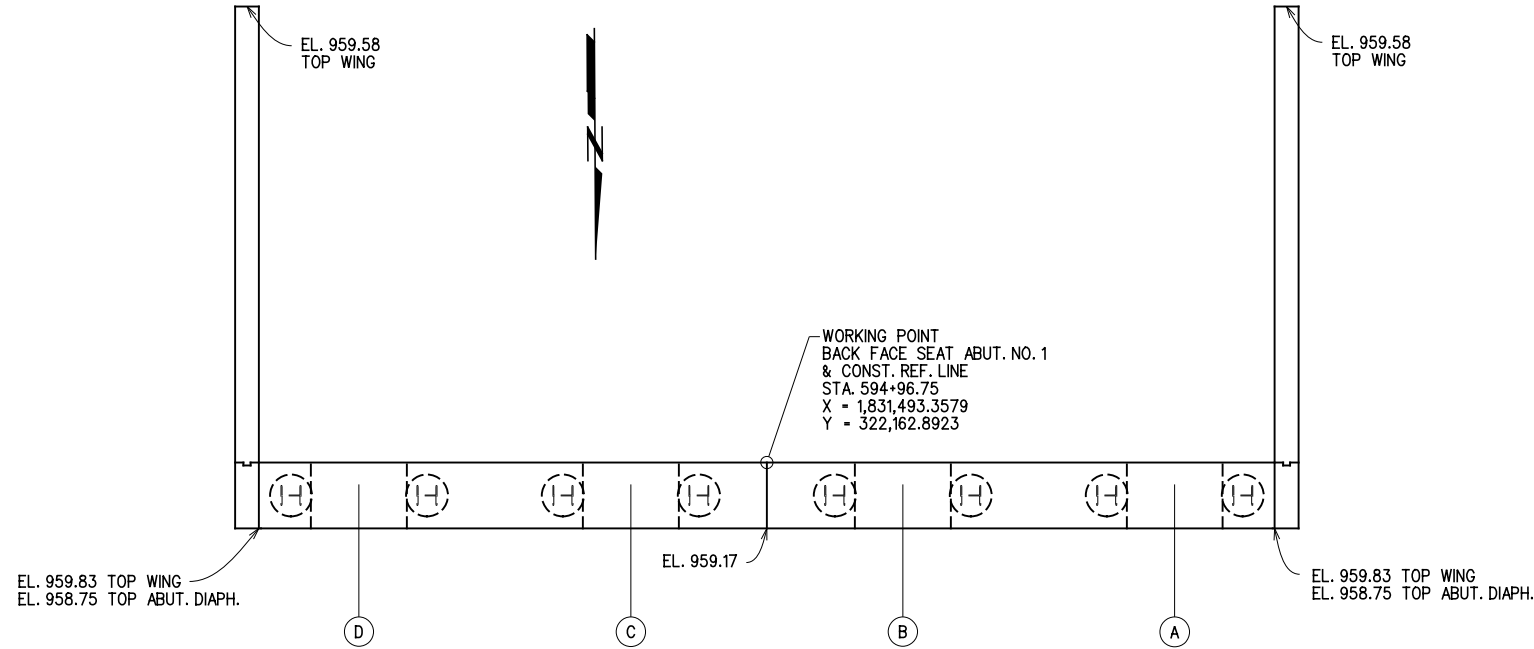
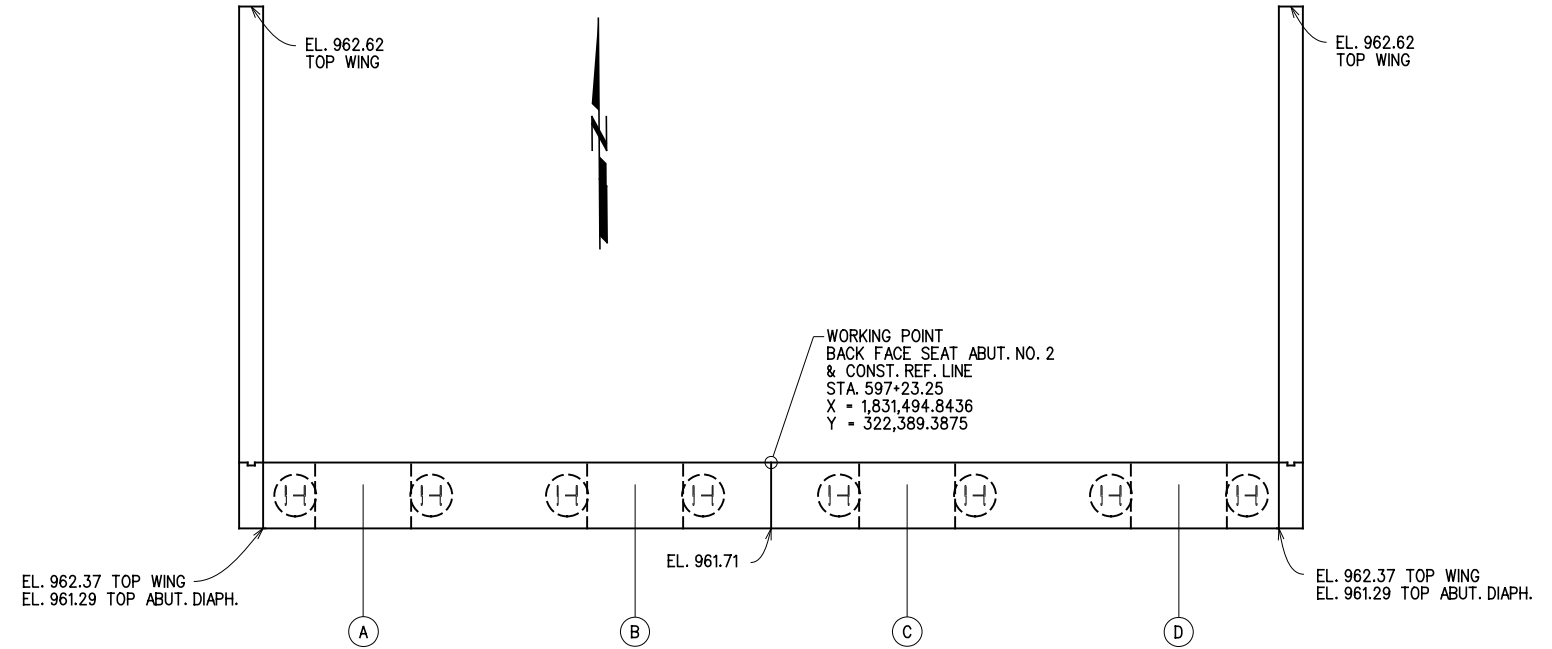


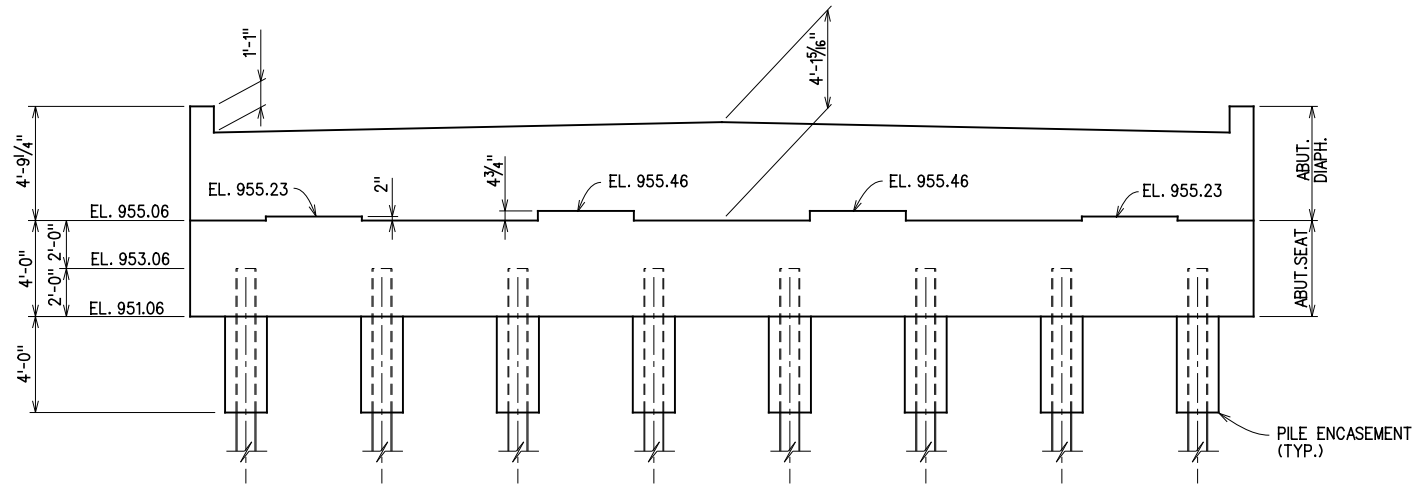
REV. NO.	DESCRIPTION	REVISIONS	DATE



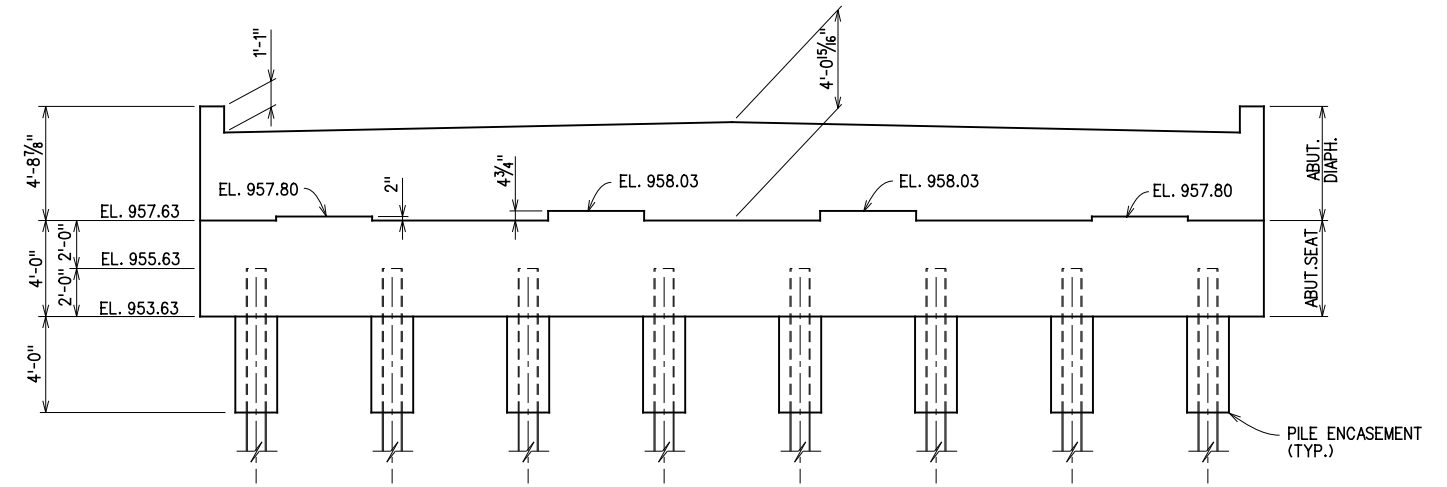
PLAN - ABUTMENT NO. 1



PLAN - ABUTMENT NO. 2



ELEVATION - ABUTMENT NO. 1



ELEVATION - ABUTMENT NO. 2

ABUTMENT QUANTITIES				
ITEM	UNIT	ABUT. 1	ABUT. 2	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	C.Y.	40.0	40.0	80.0
CLSM BACKFILL	C.Y.	82.0	82.0	164.0
CLASS A CONCRETE	C.Y.	26.2	26.2	52.4
EPOXY COATED REINFORCING STEEL	LB.	4,330.0	4,330.0	8,660.0
EPOXY COATED REINFORCING STEEL	LB.	456.0	440.0	896.0
PILES, FURNISHED (HP 10X42)	L.F.	456.0	440.0	896.0
PILES, DRIVEN (HP 10X42)	L.F.	---	---	1.0
WATER REPELLENT (VISUALLY INSPECTED)	S.Y.	12.0	12.0	24.0
6" PERFORATED PIPE UNDERDRAIN ROUND	L.F.	42.0	42.0	84.0
6" NON-PERF. PIPE UNDERDRAIN RND.	L.F.	30.0	30.0	60.0

NOTES:

- SEE STANDARD B40-I-ABUT-PC3-1 FOR ABUTMENT SEAT DETAILS. SEE STANDARD B40-I-ABUT-PC3-2 FOR ABUTMENT WINGWALL DETAILS.
- SEE STANDARDS B40-I-ADIA-PC3-1 AND B40-I-ADIA-PC3-2 FOR ABUTMENT DIAPHRAGM DETAILS.
- SEE STANDARD B40-I-ABUT-MISC FOR ABUTMENT EXCAVATION AND PIPE UNDERDRAIN DETAILS.
- SEE STANDARD HP1-2 FOR PILE ENCASEMENT DETAILS.



**GROSSMAN & KEITH**  
ENGINEERING COMPANY  
10408 GREENBRIAR PL., OKLA. CITY OK. 73159  
PH. 691-3213 FAX 691-3214  
CA. #74 EXPIRES 06/30/2016

ABUTMENT NO. 1 & 2

DESIGN		U.S. 277 OVER DEEP RED CREEK OVERFLOW	COTTON COUNTY
DRAWN		BRIDGE "A"	
CHECKED		ABUTMENT DETAILS	
APPROVED		JOB PIECE NO. 28036(04)	SHEET NO. 48
SQUAD	G/K ENGR.		

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6/2/2016