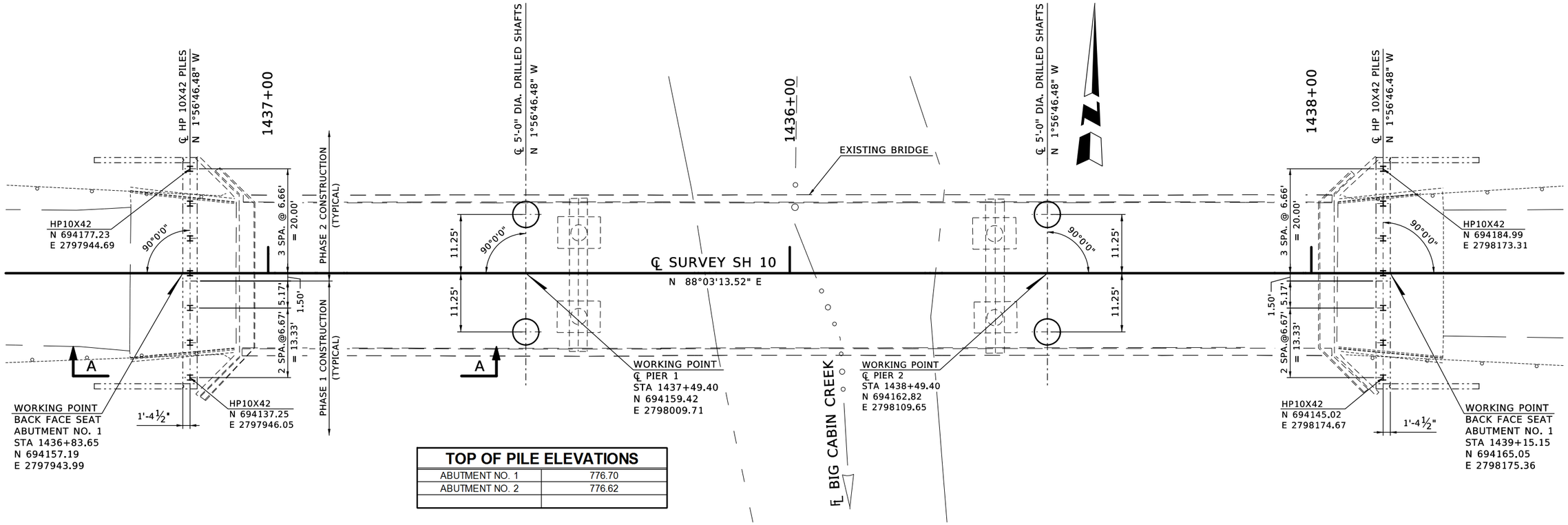


TOP OF PILE ELEVATIONS

ABUTMENT NO. 1	776.70
ABUTMENT NO. 2	776.62

PLAN - BRIDGE A

SCALE: 1" = 10'

SUMMARY OF QUANTITIES - BRIDGE

DESCRIPTION	UNIT	ABUTMENT	PIER	SUPERSTR.	APPROACH	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	90				90
CLSM BACKFILL	CY	122.6				122.6
TEMPORARY EARTH RETAINAGE	LSUM					1
APPROACH SLAB	SY				187.6	187.6
SAW-CUT GROOVING	SY			908.0	150.8	1058.8
CONCRETE RAIL (TR4)	LF			461.0	80.0	541.0
STRUCTURAL STEEL	LB			341240		341240
WEATHERING STEEL FIXED BEARING ASSEMBLY	EA			12		12
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA			24		24
ELASTOMERIC BEARING PADS	EA			24		24
SPECIAL CONCRETE FINISH	SY		66			66
CLASS AA CONCRETE	CY			276.4		276.4
CLASS A CONCRETE	CY	49.6	90.0			139.6
MECHANICAL SPLICES	EA	44	44	955		1043
REINFORCING STEEL	LB		680			680
EPOXY COATED REINFORCING STEEL	LB	9940	17500	93470		120910
CLASS B BRIDGE DECK REPAIR	SY			50		50
CLASS C BRIDGE DECK REPAIR	SY			50		50
PILES, FURNISHED (HP10X42)	LF	400				400
PILES, DRIVEN (HP10X42)	LF	400				400
METAL PILE SHOES	EA	14				14
PILE SPLICE, H-PILE (NON-BIDDABLE)	EA	1				1
WATER REPELLENT (VISUALLY INSPECTED)	SY	24	104	524	64	716
DRILLED SHAFTS 60" DIAMETER	LF		86			86
CROSSHOLE SONIC LOGGING	EA		2			2
SEALER CRACK PREPARATION	LF			399.4		399.4
SEALER RESIN	GAL			2.7		2.7
TYPE 1-A PLAIN RIPRAP	TON	1300				1300
TYPE 1-A FILTER BLANKET	TON	210				210
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	90				90
6" NON-PERF. PIPE UNDERDRAIN RND.	LF	40				40
REMOVAL OF EXISTING BRIDGE STRUCTURE	LSUM					1

HYDRAULIC SUMMARY

TOTAL DRAINAGE AREA = 37.31 sq. mi
CONTROLLED DRAINAGE AREA = 0.00 sq. mi
EFFECTIVE DRAINAGE AREA = 37.31 sq. mi

FREQ.	Q (cfs)	CHW (ft)	V (fps)
2	2500	766.80	3.59
5	4740	769.57	4.46
10	6820	771.41	5.08
25	10200	773.42	6.24
50	12800	774.64	7.11
100	15400	775.65	8.01
500 (OT)	22900	778.24	10.49

* CONTRACTION SCOUR (100yr) = 16.97 ft
* PIER SCOUR (100yr) = 7.20 ft
* TOTAL SCOUR (100yr) = 24.17 ft
* CONTRACTION SCOUR (500yr) = 27.39 ft
* PIER SCOUR (500yr) = 7.20 ft
* TOTAL SCOUR (500yr) = 34.59 ft

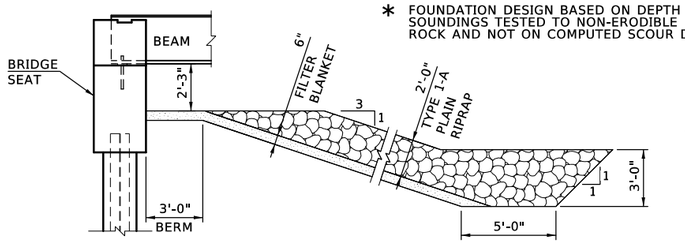
* FOUNDATION DESIGN BASED ON DEPTH TO SOUNDINGS TESTED TO NON-ERODIBLE ROCK AND NOT ON COMPUTED SCOUR DEPTHS

INDEX OF BRIDGE SHEETS

SHEET NO.	TITLE
32	GENERAL PLAN AND ELEVATION
33	FOUNDATION REPORT
34 - 35	TYPICAL SECTION (1) - (2)
36	CONSTRUCTION PHASING
37	STAKING DIAGRAM
38 - 41	ABUTMENT DETAILS (1) - (4)
42 - 44	PIER DETAILS (1) - (3)
45 - 47	GIRDER DETAILS (1) - (3)
48 - 49	SUPERSTRUCTURE DETAILS (1) - (2)
50	LONGITUDINAL SECTION
51 - 52	APPROACH SLAB DETAILS (1) - (2)

STANDARDS

TR4-2
HP1-2
B40-STL-BM-BRACING
B40-I-ABUT-MISC
B40-I-BRG-RB



SECTION A-A

SCALE: NONE

NOTES:

1. ABUTMENT PILES SHALL BE ORIENTED SUCH THAT THE FACE OF THE PILE WEB IS PARALLEL WITH THE FACE OF THE BRIDGE SEAT.
2. CONTRACTOR SHALL VERIFY LOCATION AND STATUS (I.E. "ABANDONED") OF ALL UTILITIES PRIOR TO BEGINNING EXCAVATION OR DRIVING PILES.

Design	MKR	7/16
Drawn	RAH	7/16
Checked	KSJ	7/16
Approved	SAK	9/16
Squad	BENHAM	

SH 10 OVER BIG CABIN CREEK — CRAIG COUNTY
BRIDGE A
STAKING DIAGRAM
Job Piece No. 29068(04) Sheet No. 37