

**BROS-SWAP-C097(135)--FE-97**  
**BRIDGE REPLACEMENT**  
 BOP 7+92  
 EOP 12+38

N88-1

R-45W

PROJECT NO. BR09S097(135)-FE97 SHEET <b>2</b>	PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE. SEC. 35, 36 T88N-R45W	BSB DRAWN BY: _____ RK DESIGNED BY: _____ MJN APPROVED BY: _____ DATE: _____ REVISION: _____ DATE: _____	<b>WOODBURY COUNTY</b> <b>ENGINEERS OFFICE</b>
	SHEET DESCRIPTION: LOCATION MAP		

**ESTIMATED QUANTITIES**

No.	ITEM CODE	ITEM	UNIT	TOTAL
1.	2101-0850001	CLEARING AND GRUBBING	ACRE	0.23
2.	2102-2625000	EMBANKMENT-IN-PLACE	C.Y.	1,123
3.	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	C.Y.	360
4.	2104-2710020	EXCAVATION, CLASS 10, CHANNEL	C.Y.	2,718
5.	2312-8260310	GRANULAR SURFACING ON ROAD, CRUSHED CONCRETE	TON	174
6.	2401-6745625	REMOVAL OF EXISTING BRIDGE	LUMP SUM	1
7.	2402-2720000	EXCAVATION, CLASS 20	C.Y.	539
8.	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	C.Y.	197.2
9.	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB.	47,625
10.	2407-0551510	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D110	EACH	5
11.	2408-7800000	STRUCTURAL STEEL	LB.	1,265
12.	2414-6424124	CONCRETE OPEN RAILING, TL-4	LIN. FT.	274.2
13.	2417-1040024	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 24 IN. DIA.	LIN. FT.	144
14.	2501-0201057	PILES, STEEL, HP 10x57	LIN. FT.	1,870
15.	2505-4008420	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-221	EACH	2
16.	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	2
17.	2505-4021722	STEEL BEAM GUARDRAIL FLARED END TERMINAL, BA-225	EACH	2
18.	2507-3250005	ENGINEERING FABRIC	S.Y.	840
19.	2507-6800061	REVTMENT, CLASS E	TON	909
20.	2518-6910000	SAFETY CLOSURE	EACH	2
21.	2519-3300400	FIELD FENCE BRACE PANELS	EACH	14
22.	2519-4200040	REMOVAL AND REINSTALLATION OF FENCE, FIELD	LIN. FT.	471
23.	2528-8445110	TRAFFIC CONTROL	LUMP SUM	1
24.	2533-4980005	MOBILIZATION	LUMP SUM	1
25.	2551-0000230	PERMANENT CRASH CUSHION, SEVERE USE (SU)	EACH	2
26.	2551-0000300	PERMANENT CRASH CUSHION SPARE PARTS KIT	EACH	2
27.	2601-2634100	MULCHING	ACRE	0.50
28.	2601-2635043	SEEDING AND FERTILIZING (RURAL)	ACRE	0.50
29.	2602-0000020	SILT FENCE	LIN. FT.	287

**SUMMARY OF BRIDGE QUANTITIES**

ITEM	UNITS	SUPER STRUCTURE	ABUT. NO. 1 FOOTING	ABUT. NO. 2 FOOTING	TOTALS
EXCAVATION CLASS 20	C.Y.		199	179	378
STRUCTURAL CONCRETE (BRIDGE)	C.Y.	*161.9	17.65	17.65	197.2
REINFORCING STEEL, EPOXY COATED	LBS	47,625			47,625
CONCRETE OPEN RAILING	LF	274.2			274.2
HP10x57 STEEL FRICTION PILING	LF		11 AT 75' = 825	11 AT 85' = 1,045	1,870
BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D110	EACH	5			5
STRUCTURAL STEEL	LB	1,265			1,265

\* NOTE - INCLUDES ABUTMENT WINGS AND PAVING BLOCKS

DATE	REVISION	DATE

PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE. SEC. 35, 36 T88N-R45W  
SHEET DESCRIPTION: ESTIMATE OF QUANTITIES

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
1	2101-0850001	<b>CLEARING AND GRUBBING</b> CLEAR AND GRUBB SHALL CONSIST OF REMOVAL OF ALL VEGETATION IN THE CONSTRUCTION LIMITS. ALL MATERIALS BRUSH, TREES, ETC. SHALL BE DISPOSED OF OFF OF THE PROJECTS LIMITS. NO BURNING WITHIN THE PROJECT LIMITS ALLOWED. IF THE CONTRACTOR WANTS TO BURN ON PRIVATE PROPERTY ADJACENT TO THE PROJECT THEY WILL SUPPLY THE PROJECT ENGINEER WITH A LETTER SIGNED BY THE LAND OWNER ALLOWING THE BURNING.
2	2102-2625000	<b>EMBANKMENT-IN-PLACE</b> SEE TABULATION ITEM 3 ON THIS SHEET FOR BREAKDOWN OF EXCAVATION QUANTITIES. TYPE "A" COMPACTION IS REQUIRED. AFTER ALL SUITABLE MATERIAL ON SITE HAS BEEN DEPLETED THE CONTRACTOR SHALL FURNISH ALL REMAINING MATERIAL REQUIRED. THE CONTRACTOR SHALL FURNISH HIS OWN BORROW FOR EMBANKMENT-IN-PLACE. THE CONTRACTOR SHALL FAMILIARIZE THEMSELV WITH PROVISIONS OF IOWA LAW AS IT APPLIES TO REMOVAL AND REPLACEMENT OF TOPSOIL ON BORROW AREAS.
3	2102-2710070	<b>EXCAVATION, CLASS 10, ROADWAY AND BORROW</b> MATERIAL SHALL BE FREE FROM FOREIGN MATERIAL AND HAVE ADEQUATE MOISTURE TO ALLOW COMPACTION AT THE CONTRACTOR'S EXPENSE IF NECESSARY TO COMPLETE COMPACTION. ROADWAY PORTION OF CLASS 10 SHALL BE COMPACTED USING A VIBRATORY ROLLER. FILL CALCULATIONS INCLUDE A 40% SHRINKAGE FACTOR, NO PAYMENT FOR OVERHAUL WILL BE ALLOWED. THE APPROACH BERMS SHALL BE BUILT TO THE CONSTRUCTION LIMITS PRIOR TO THE ABUTMENT PILE BEING PLACED. MATERIAL FROM ITEM 3 MAY BE USED FOR BORROW MATERIAL IF SUITABLE.  1483 C.Y. (FILL+40%) - 360 C.Y. CUT = 1123 C.Y. BORROW TO BE SUPPLIED BY THE CONTRACTOR AS EMBANKMENT-IN-PLACE.
4	2104-2710020	<b>EXCAVATION, CLASS 10 CHANNEL</b> QUANTITY OF EXCAVATION IS 2718 C.Y. (CUT) AND 0 C.Y. (FILL + 40%). EXCESS MATERIAL MAY BE USED AS ROADWAY BORROW IF DEEMED SUITABLE BY THE ENGINEER. UNUSED MATERIAL OR MATERIAL DEEMED UNSUITABLE SHALL BE DISPOSED OF OFF THE PROJECT SITE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
5	2312-8280310	<b>GRANULAR SURFACING ON ROAD, CRUSHED CONCRETE</b> GRANULAR SURFACING SHALL BE PLACED IN TWO (2), 2 INCH LIFTS. THE FIRST LIFT SHALL BE SCARIFIED INTO THE ROADWAY AND ROLLED WITH A SMOOTH DRUM ROLLER. THE SECOND LIFT SHALL BE PLACED AND BLADED TO THE CORRECT CROWN
6	2401-6745625	<b>REMOVAL OF EXISTING BRIDGE</b> BID ITEM SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING BRIDGE (FHWA STR. NO. 353910). THE BRIDGE IS A 103' LONG AND 19' WIDE 3 SPAN I-BEAM BRIDGE WITH TIMBER PILE, BACKING PLANK AND PILE CAPS. THE SUBSTRUCTURE SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW STREAM BED. ALL MATERIALS SHALL BE DISPOSED OF OFF OF THE PROJECT LIMITS ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. LABORATORY RESULTS SHOW NO TRACES OF ASBESTOS.
7	2402-2720000	<b>EXCAVATION, CLASS 20</b> BID ITEM IS FOR EXCAVATION REQUIRED FOR CONSTRUCTION OF THE ABUTMENT FOOTINGS. SEE "SUMMARY OF BRIDGE QUANTITIES" TABLE ON SHEET 3 FOR EXCAVATION QUANTITY AT EACH ABUTMENT. BID ITEM ALSO INCLUDES 161 CY. CLASS 20 FOR ENTRANCE PIPE SEE SHEET 7 FOR PLACEMENT
8	2403-0100010	<b>STRUCTURAL CONCRETE (BRIDGE)</b> INCLUDES COST OF FURNISHING AND PLACING SUBDRAIN (INCLUDING EXCAVATION), GRANULAR BACKFILL AND POROUS BACKFILL AT ABUTMENTS. THE CONTRACTOR SHALL PROVIDE CERTIFIED PLANT INSPECTION FOR THE CONCRETE USED IN THE BRIDGE CONSTRUCTION. THE COST OF THIS INSPECTION SHALL BE INCIDENTAL TO THIS ITEM.

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
13	2417-1040024	<b>CULVERT, CORRUGATED METAL ENTRANCE PIPE, 24IN. DIA.</b> CULVERT SHALL BE INSTALLED AT STA. 8+87 36' LT TO STA. 10+31 36' LT. THE CULVERT SHALL BE RIVETED AND 12 GAUGE. REMOVAL OF EXISTING CMP SHALL BE INCIDENTAL TO THIS BID ITEM.
14	2501-0201057	<b>PILES, STEEL, HP 10x57</b> PILE POINTS TO BE ADDED TO PILES DUE TO SOIL CONDITIONS AT AN ELEVATION OF 1,110.0± AND ALL COSTS FOR FURNISHING AND ATTACHING PILE POINTS TO 22 ABUTMENT PILES TO BE INCIDENTAL TO THIS BID ITEM.
18	2507-3250005	<b>ENGINEERING FABRIC</b> ENGINEERING FABRIC SHALL BE PLACED UNDERNEATH AND AT THE LIMITS OF THE CLASS "E" REVETMENT. SEE SHEET 10 FOR DETAILS.
19	2507-6800081	<b>REVETMENT, CLASS E</b> REVETMENT SHALL BE PLACED AT A THICKNESS OF APPROXIMATELY 2'. SEE THE PLAN VIEW ON SHEET 7 FOR PLACEMENT LIMITS.
20	2518-6910000	<b>SAFETY CLOSURE</b> THIS ITEM SHALL INCLUDE PROVIDING, INSTALLING, MAINTAINING AND REMOVING SAFETY CLOSURES ACCORDING TO IDOT STANDARD SPECIFICATIONS AT THE LOCATIONS INDICATED IN THE TABLE ON SHEET 6.
21	2518-3300400	<b>FIELD FENCE BRACE PANELS</b> BRACE PANELS ARE REQUIRED AT THE BEGINNING AND ENDING OF THE FENCING INSTALLATION.
22	2518-4200040	<b>REMOVAL AND REINSTALLATION OF FENCE, FIELD</b> FENCING SHALL BE 4 STRAND BARB. LOCATION OF FENCING IS STATION 7+92 TO 11+05 RIGHT OF CENTERLINE.
23	2528-8445110	<b>TRAFFIC CONTROL</b> THIS ITEM SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING AND REMOVING SIGNING AS PER THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130 AND STANDARD ROAD PLAN TC-252.
27	2601-2634100	<b>MULCHING</b>
28	2601-2636043	<b>SEEDING AND FERTILIZING (RURAL)</b> THE CONTRACTOR IS TO RESHAPE, FERTILIZE AND MULCH AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION. THIS SHALL BE INCLUDED IN THE PRICES BID FOR ITEMS 27 & 28. THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER ALL AREAS TO BE SEEDD PRIOR TO COMMENCING ANY WORK ON THIS ITEM.
28	2602-0000020	<b>SILT FENCE</b> SILT FENCE SHALL BE PLACED AS DIRT WORK IS COMPLETED. SEE TABULATIONS ON SHEET 6 FOR LOCATIONS.

**WOODBURY COUNTY**  
ENGINEERS OFFICE

BESS DRAWN BY: _____	BK DESIGNED BY: _____	MLJN APPROVED BY: _____	DATE: _____	REVISION: _____
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PROJECT DESCRIPTION: **BRIDGE REPLACEMENT ON HANCOCK AVE. SEC. 35, 36 T88N-R45W**

SHEET DESCRIPTION: **ESTIMATE REFERENCE INFORMATION**

PROJECT NO. 2206-SMP-COYR(15)-FE-07

SHEET 4



**STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION**

Possible Standards: BA-200, BA-201, BA-202, BA-205, BA-208, BA-211, BA-221, BA-225, BA-250, BA-260, LS-625, LS-626, LS-630, LS-635, SI-172, SI-173 and SI-211.

108-BA  
10-16-18

- ① Lane(s) to which the obstacle is adjacent.  
② Not a bid item, incidental to guardrail installation.

No.	Direction of Traffic	Location Side	Station	Offset	Layout Lengths					Delimiters and Object Markers ②			Bid Items										Remarks				
					BA-250, BA-260, LS-630, OR LS-635					Long-Span System	SI-211	Object Marker SI-173			Baloted End Anchor	Post Adapter	Steel Beam Guardrail	BA-250 or LS-630				BA-260 or LS-635					
					VT1	VF	VT2	ET	Type			Type 1	Type 2	Type 3				End Terminal				Barrier Transition Section		End Terminal			
												White	OM-2-2	OM-3L				OM-3R	Tangent	Flared	Tangent				Flared	Barrier Transition Section	Tangent
Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Station	Type	Type	Each	Each	Each	Each	Type	Each	Each	Each	Each	Each	Each	Each	Each	Each						
1	S	O	9+95.00	15.62' LT.	25.00	-	-	-	35.17	-	-	3	-	-	-	1	1	A	1	-	-	-	-	-	-	1	1
2	N	D	11+05.00	15.62' RT.	25.00	-	-	-	35.17	-	-	3	-	-	-	1	1	A	1	-	-	-	-	-	-	1	1

\* Bid Item

**CRASH CUSHIONS**

108-30  
04-16-13

No.	Direction of Traffic	Location Station	Side	Obstacle Width ③ Feet	Bid Item(s)						Sand Barrel Details ②					Earthwork*		Spare Parts Kit		Remarks								
					Crash Cushion (select One)						V	W	X	Y	Z	Excavation Class 10	Embankment In Place	Permanent	Permanent Severe Use									
					Temporary	Temporary Reductive	Temporary Severe Use	Permanent	Permanent Severe Use	Length											Length	Length	Length	Length	Cu.Yds.	Cu.Yds.	Each	Each
1	NB	11+05.00	RT	1'-1"																							1	SEE MATLS. IM 455
1	SB	9+85.00	RT	1'-1"																							1	SEE MATLS. IM 455

① Lane(s) to which the installation is adjacent.  
② Spare parts kit to be included with each permanent crash cushion.  
③ Obstacle is J30 Open Barrier Rail End Post, TL-4, J30-43-06

**TABULATION OF FENCING**

Location Station to Station	Side	Length (Lin. Ft.)	Remarks
7+92	8+10	RIGHT	118 4 BRACE PANELS
10+80	12+38	RIGHT	178 6 BRACE PANELS
8+75	10+50	LEFT	175 4 BRACE PANELS
TOTAL		471	14 BRACE PANELS

**TABULATION OF SILT FENCES**

Refer to EC-201

100-17  
04-20-10

Location Station to Station	Side	Length (Lin. Ft.)	Remarks
8+00	9+95	RT.	142
11+05	12+20	LT.	100
11+05	11+33	RT.	45

**TABULATION OF DRIVEWAYS**

Station	Side	Pipe Length
9+40	RT.	No Pipe
11+62	RT.	No Pipe

**TABULATION OF SAFETY CLOSURES**

108-13A  
08-01-08

Refer to Section 251B of the Standard Specifications

Station	Closure Type		Remarks
	Road Quantity	Flared Quantity	
8+00	1.0		
17+00	1.0		
Totals	2.0		

**WOODBURY COUNTY ENGINEERS OFFICE**

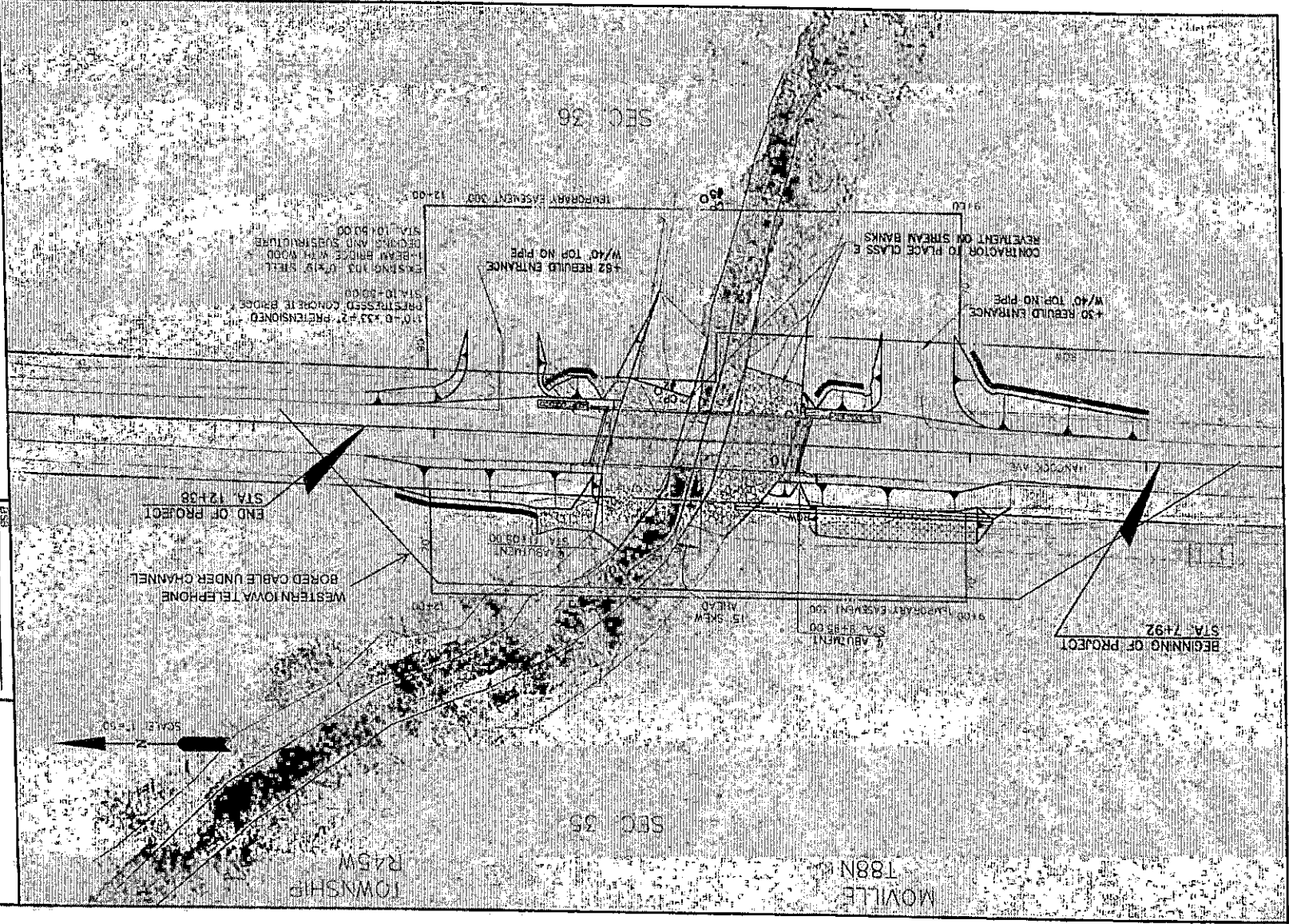
COR. DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 BK. DESIGNED BY: \_\_\_\_\_  
 MAIN APPROVED BY: \_\_\_\_\_  
 PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE. SEC. 35, 36 T88N-R45W  
 SHEET DESCRIPTION: TABULATIONS  
 PROJECT NO. BRCS-SHAP-COR(133)-FE#7  
 SHEET 6

PROJECT NO. 7  
SHEET

PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE. SEC. 35, 36 T88N-R45W  
SHEET DESCRIPTION: PLAN VIEW

DATE	REVISION	DATE

WOODBURY COUNTY  
ENGINEERS OFFICE



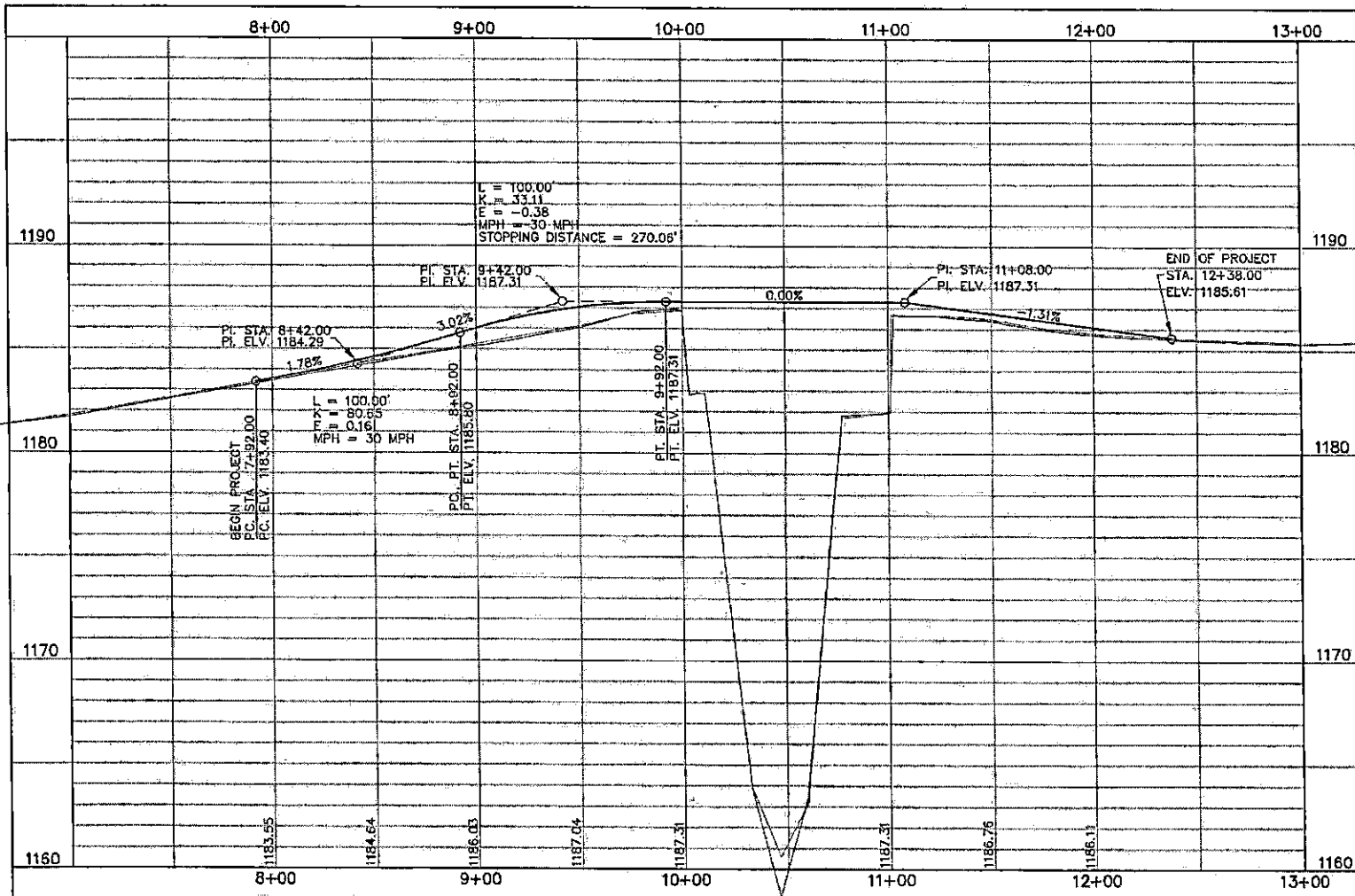
SCALE 1"=50'

WESTERN TOWNA TELEPHONE  
BORED CABLE UNDER CHANNEL  
END OF PROJECT  
STA. 12+08

BEGINNING OF PROJECT  
STA. 7+92

TOWNSHIP  
R45W

MOBILE  
T88N



**WOODBURY COUNTY  
ENGINEERS OFFICE**

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PROJECT NO. 805-SWAP-008(13)-FS-07  
SHEET 6

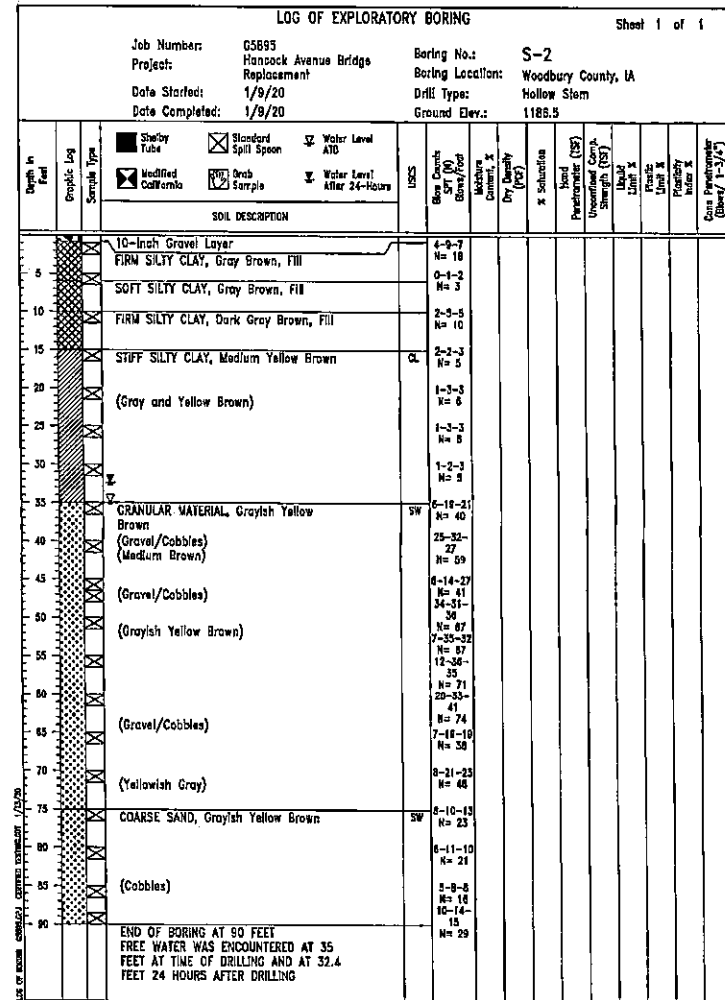
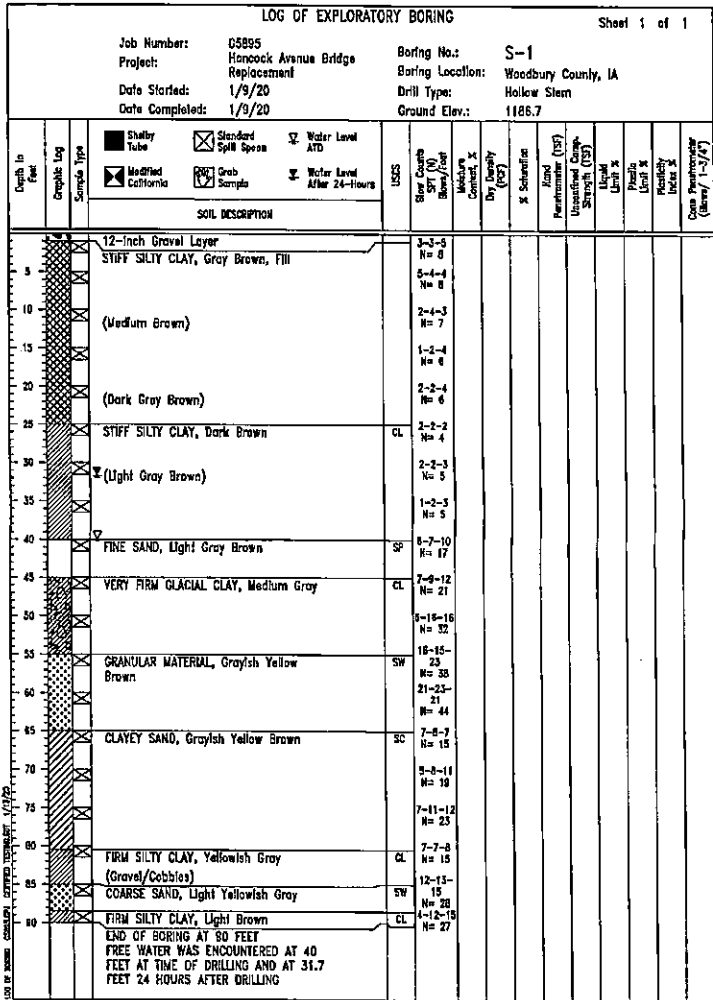
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PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE. SEC. 35, 36 T88N-R45W  
SHEET DESCRIPTION: PROFILE VIEW

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DESIGNED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
APPROVED BY: _____	DATE: _____





**WOODBURY COUNTY ENGINEERS OFFICE**

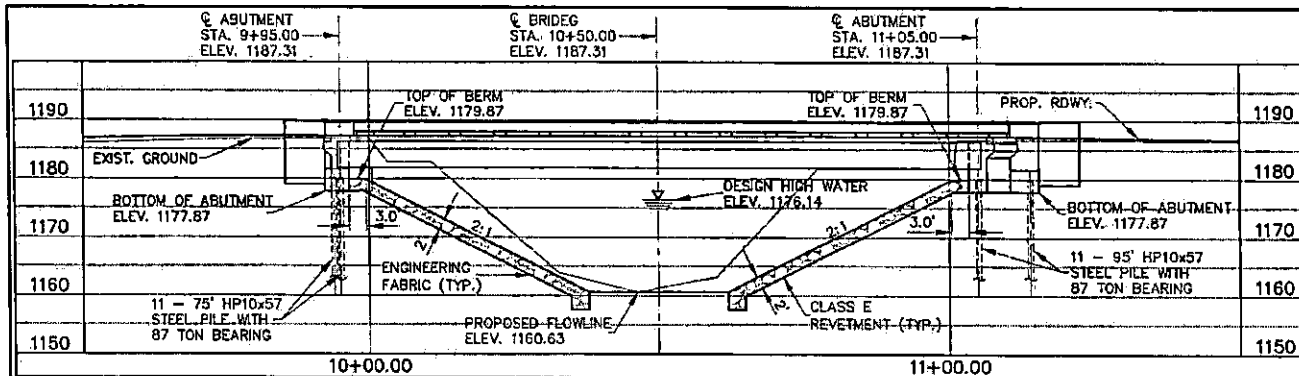
PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE. SEC. 35, 35 T88N R45W

SHEET DESCRIPTION: SOIL BORING LOGS

PROJECT NO. 003-SNAP-COM(15)-F647

SHEET 9

COR: DRAWN BY: BK, DESIGNED BY: M/JN, APPROVED BY: DATE: REVISION: DATE:

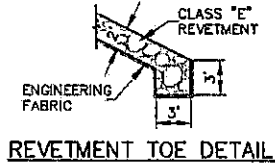


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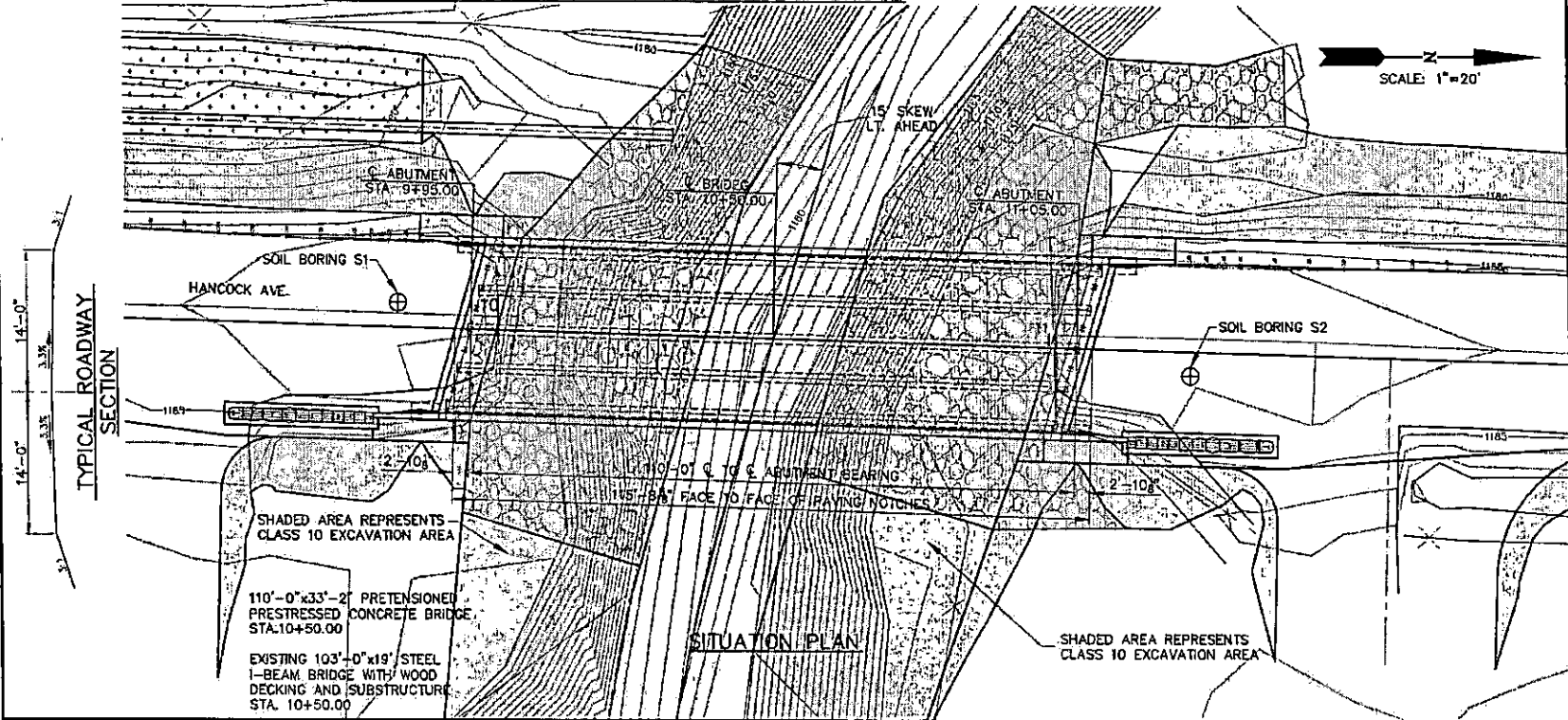
FWHA #353910

Q25	5690	STAGE ELEV. 1174.86
Q50	6920	STAGE ELEV. 1176.14
Q100	8120	STAGE ELEV. 1177.06
Q200	10400	STAGE ELEV. 1178.58

BRIDGE VELOCITY: 10.60 FT./SEC.  
 FREEBOARD: 5.48  
 DRAINAGE AREA: 32.20 SQUARE MILES



LONGITUDINAL SECTION ALONG CENTERLINE OF BRIDGE



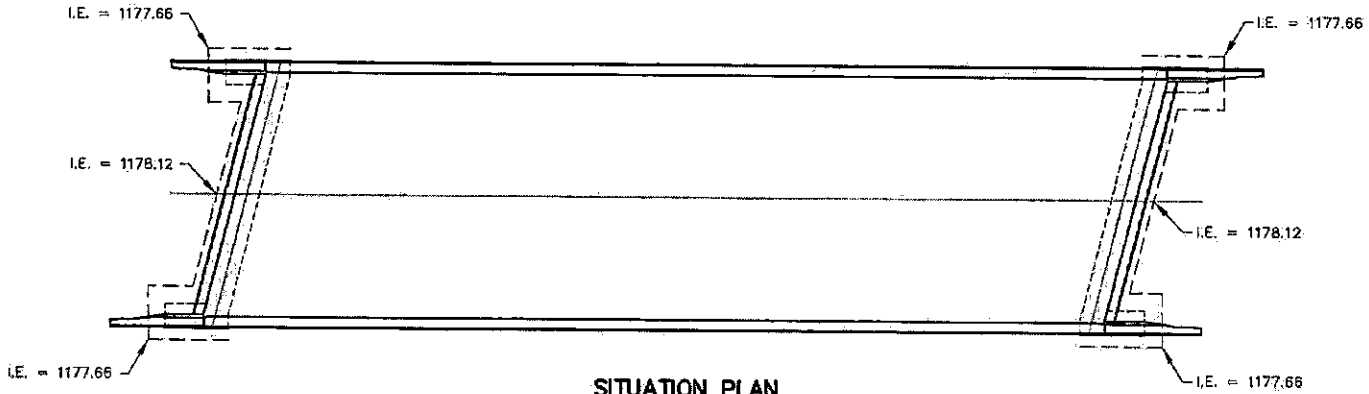
**WOODBURY COUNTY ENGINEERS OFFICE**

DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

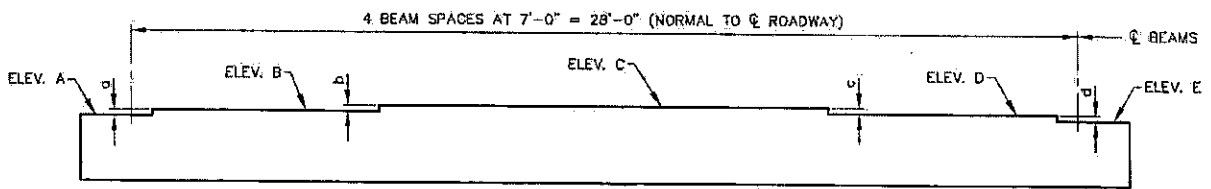
PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE., SEC. 35, 36 T88N-R45W  
 SHEET DESCRIPTION: PLAN VIEW

PROJECT NO. 85CS-SHP-COURT-15-F47  
 SHEET 10

DATE	
DESIGNED BY	
APPROVED BY	
PROJECT NO.	



**SITUATION PLAN**  
SHOWING SUBDRAIN LOCATION



**ABUTMENT AND PIER STEP DIAGRAM**

(LOOKING UPSTREAM)  
NO SCALE

(BEAM LINE LABEL CORRESPONDS WITH ELEVATION POINT LABEL REFER TO "TABLE OF ABUTMENT AND PIER SEAT ELEVATIONS" FOR ELEVATION POINT VALUES.)

ABUTMENT WING ELEVATIONS			
LOCATION	ELEVATION "A"	ELEVATION "B"	ELEVATION "C"
NW ABUTMENT	1187.01	1187.01	1187.01
SW ABUTMENT	1187.01	1187.01	1187.01
NE ABUTMENT	1187.01	1187.01	1187.01
SE ABUTMENT	1187.01	1187.01	1187.01

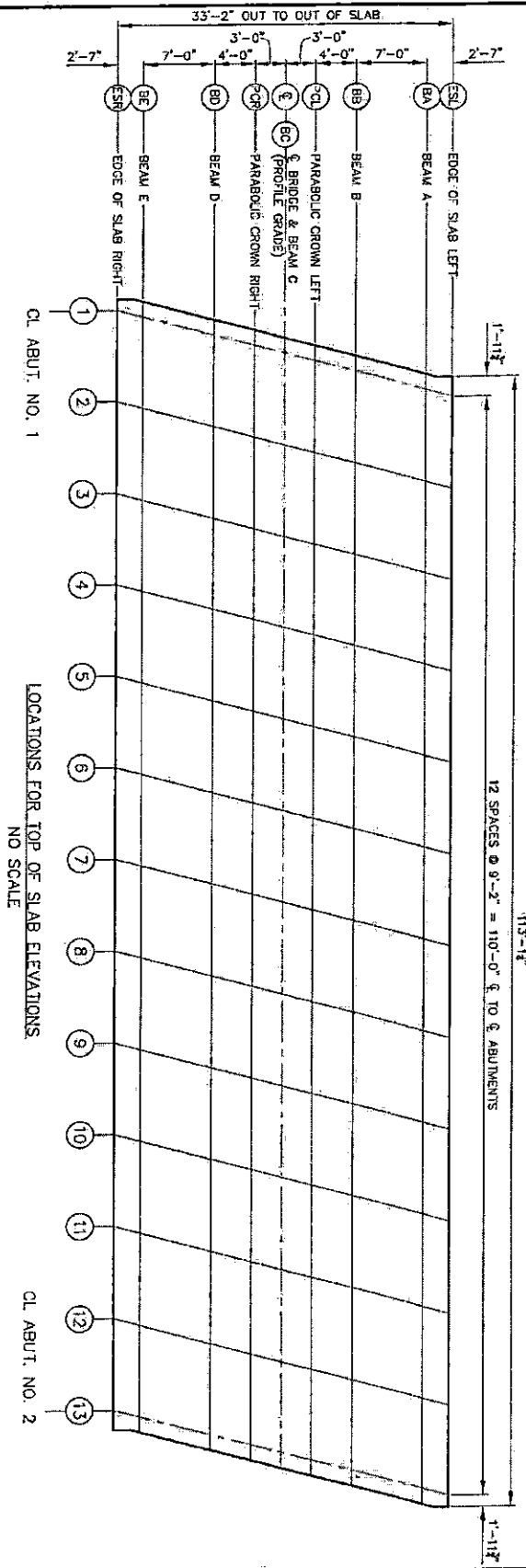
TABLE OF ABUTMENT AND PIER SEAT ELEVATIONS					
LOCATION	ELEVATION "A" BEAM A	ELEVATION "B" BEAM B	ELEVATION "C" BEAM C	ELEVATION "D" BEAM D	ELEVATION "E" BEAM E
ABUTMENT NO. 1	1181.37	1181.51	1181.62	1181.51	1181.37
ABUTMENT NO. 2	1181.37	1181.51	1181.62	1181.51	1181.37

PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE., SEC. 35, 36 T88N-R45W

SHEET DESCRIPTION: BRIDGE DETAILS

PROJECT NO.  
806-SVAP-007(13)-FE-97  
SHEET

LOCATION	TOP OF SLAB ELEVATIONS												
	LINE 1	LINE 2	LINE 3	LINE 4	LINE 5	LINE 6	LINE 7	LINE 8	LINE 9	LINE 10	LINE 11	LINE 12	LINE 13
EST. (EDGE OF SLAB LEFT)	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01
BA (BEAM A)	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06
BB (BEAM B)	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20
PCL (PARABOLIC CROWN LEFT)	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28
PC (PARABOLIC CROWN LEFT)	1187.31	1187.31	1187.31	1187.31	1187.31	1187.31	1187.31	1187.31	1187.31	1187.31	1187.31	1187.31	1187.31
PC & BC (PARABOLIC CROWN LEFT)	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28
PD (PARABOLIC CROWN RIGHT)	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28	1187.28
BD (BEAM D)	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20	1187.20
BE (BEAM E)	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06	1187.06
ESR (EDGE OF SLAB RIGHT)	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01	1187.01



LOCATIONS FOR TOP OF SLAB ELEVATIONS.  
NO SCALE

PROJECT NO. E053194-000(03)-1-ESR SHEET 12	PROJECT DESCRIPTION: BRIDGE REPLACEMENT ON HANCOCK AVE. SEC. 35, 36 T8&N-R45W SHEET DESCRIPTION: TOP OF SLAB ELEVATIONS	BSB DRAWN BY: BK DESIGNED BY: MJK APPROVED BY: _____ DATE: _____ REVISION: _____ DATE: _____	<b>WOODBURY COUNTY</b> ENGINEERS OFFICE
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