DRAWING APPROVAL

ALL SHOP DRAWINGS THAT REQUIRE APPROVAL SHALL BE APPROVED BY SUNDQUIST ENGINEERING, P.C.

ADDRESS: 1417 BROADWAY DENISON, IOWA 51442 TELEPHONE: (712)263-8118

STA. 214+92.25

15° SKEW

DESIGN NO.: 5594

PROPOSED 112'-6 x 24' CCS BRIDGE

ARION

THESE SHOP DRAWINGS SHALL NOT BE SENT TO IOWA D.O.T. OFFICE OF BRIDGE DESIGN

THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS

IOWA DEPARTMENT OF TRANSPORTATION

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

BROS-9024(34)--5F-24 BRIDGE

The Standard Specifications, Series of 1992, of the Iowa Department of Transportation Shall Apply to Construction Work on this Project

Plus Current Special Provisions and Supplemental Specifications

Scales: As Noted

E53 7

30' ROADWAY GRANULAR SURFACE PROPOSED-GRADE & GRADE-EXISTING -

TYPICAL CROSS SECTION
NOT TO SCALE

IF ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING THE RECEIVED FROM THE OFFICE OF THE STATE HISTORIC PRESERVATION OFFICER.

OFFICE OF PROJECT PLANNING 515-239-1225 OFFICE OF LOCAL SYSTEMS 515-239-1528

THIS PROJECT IS COVERED BY THE CORPS OF ENGINEERS NATIONWIDE 404 PERMIT #14.

TRAFFIC CONTROL PLAN

THIS ROAD WILL BE CLOSED TO THROUGH TRAFFIC DURING THE APPROPRIATE STANDARD ROAD PLANS TABULATED.

1988 AADT 70 V.P.D.

Project Number: BROS-9024(34)--5F-24 FHWA 126670

INDEX OF SHEETS

Description

W.01- CROSS SECTIONS - MAIN LINE (AVAILABLE AT

A.01 TITLE SHEET

No.

C.01 ESTIMATE OF QUANTITIES & GENERAL INFORMATION

D.01 PLAN AND PROFILE - MAIN LINE

U.01 SUBDRAIN DETAILS

U.02 MISCELLANEOUS DETAILS

U.03 DETAIL SHEET 520-26

V.01 BRIDGE SITUATION PLAN

W.05 COUNTY ENGINEER'S OFFICE)

MILEAGE SUMMARY												
Div.	Location	Lin. Ft.	Miles									
	B.O.P. STA. 210+00 TO E.O.P. STA. 218+00 DEDUCT FOR BRIDGE @ STA. 214+92.25 NET LENGTH OF ROADWAY IN PROJECT NET LENGTH OF BRIDGE IN PROJECT TOTAL LENGTH OF PROJECT	800.00 112.50 687.50 112.50 800.00	0.1515									

	ROAD	STANE	DARD F	PLANS	
The following S	tandard Plans sl	hall be considered	applicable to c	onstruction work	on this project.
Identification	Date	Identification	Date	Identification	Date
RE-ZA	2-17-87	RE-47	11-10-87	RF-5	3-31-87
RE-ZB	10-22-93	RE-48A	6-15-93	RF-7	11-8-74
RE -7	4-28-92	RE-5Z	10-22-93	RF-30A	1-9-90 -
RE-IZA	10-11-88	RE- 65	1-7-92	RF-32	1-9-90
RF -17B	1-9-90	RE-08	8-8-89	RL-11	10-11-88

10-22-93 RL-11 RE-12B BRIDGE STANDARDS (May be obtained at Bridge Design Services) Standard Date Issued Latest Revision Date Issued Latest Revision Standard J24-15-87 JAN., 1987 JAN., 1987 J24-87 J24-19-87 JAN., 1987 6-89 JZ4-4-87 JAN., 1987 3-11-91 JZ4-6-87 JAN., 1987 JZ4-7-87 JAN., 1987

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly Registered Professional Engineer under the laws of the State of lowa.

J24-8-87 JAN., 1987

Approved

Date 1-21-94 My Registration expires December 31, 1994

Crawford County Engineer

Nowa Department of Transportation

Highway Division

Authorized for Letting Jeorge t. Sesson 3-9-94 Deputy Chief Engineer Date

U.S. Department of Transportation Federal Highway Administration Approved

Division Engineer

Date

Location Map Scale

R-39W

Project Number: BROS-9024(34)--5F-24 Sheet No. A.01

FHWA 126670

FILE NO.: 54661 DESIGN NO.: 5594

Crawford

County SPANNE

Board of Supervisors

Approved

GENERAL NOTES

ALL CORRUGATED METAL PIPE ON THIS PROJECT SHALL BE RIVETED PIPE. NO "SPIRAL" PIPE WILL BE ALLOWED. ALL BANDS SHALL BE 24" BANDS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH ADJACENT PROPERTY OCCUPANTS FOR RESTRAINING LIVESTOCK FROM ENTERING THE RIGHT OF WAY.

CONTRACTOR IS TO USE DUE CAUTION IN WORKING OVER AND AROUND ALL TILE LINES. BREAKS IN THE TILE LINE DUE TO THE CONTRACTOR'S CARELESSNESS ARE TO BE REPLACED AT HIS EXPENSE WITHOUT COST TO THE COUNTY. ANY TILE LINES BROKEN OR DISTURBED BY CUT LINES WILL BE REPLACED AS DIRECTED BY THE ENGINEER IN CHARGE OF CONSTRUCTION AND AT THE COUNTY'S EXPENSE.

THE P10A TYPE 3 (HP12X53) FRICTION-BEARING PIER PILES ARE TO BE DRIVEN TO FULL PENETRATION WHERE PRACTICABLE, BUT TO AT LEAST 34 TONS BEARING CAPACITY PER PILE.

THE HP10X42 FRICTION-BEARING ABUTMENT PILES ARE TO BE DRIVEN TO FULL PENETRATION WHERE PRACTICABLE, BUT TO AT LEAST 35 TONS BEARING CAPACITY PER PILE.

THE PIER PILES ARE TO BE P10A (HP12X53). SUPERSTRUCTURE CONCRETE QUANTITY HAS BEEN INCREASED BY 0.7 C.Y. OVER QUANTITY SHOWN ON I.D.O.T. STANDARD J24-4 DUE TO SUBSTITUTION OF P10A TYPE 3 PILING IN INTEGRAL PIER BENTS. THE PILING ENCASEMENTS ARE TO EXTEND DOWN TO THE ELEVATIONS SHOWN ON THE PLANS, SHEET V.01. THE UNIT PRICE BID FOR ENCASEMENT SHALL BE FULL PAYMENT FOR FURNISHING AND PLACING ALL MATERIAL AND WHERE NECESSARY, EXCAVATION.

MONOLITHIC PIER CAPS SHALL BE USED. CAP STEEL IS REQUIRED.

THE DESIGN BEARING FOR THE PIER PILES IS 34 TONS. THE TOTAL DRIVING RESISTANCE FOR THE PILES IS 34 TONS. 7.79 TONS OF THIS DRIVING RESISTANCE IS END BEARING. WAVE EQUATION ANALYSIS WILL BE USED AT THE TIME OF PILE DRIVING TO DETERMINE PILE BEARING. THE CONTRACTOR SHALL SUBMIT ADEQUATE HAMMER INFORMATION SO THAT THE PROPER ANALYSIS CAN BE PERFORMED.

THE DESIGN BEARING FOR THE ABUTMENT PILES IS 35 TONS. THE TOTAL DRIVING RESISTANCE FOR THE PILES IS 35 TONS. 6.2 TONS OF THIS DRIVING RESISTANCE IS END BEARING. WAVE EQUATION ANALYSIS WILL BE USED AT THE TIME OF PILE DRIVING TO DETERMINE PILE BEARING. THE CONTRACTOR SHALL SUBMIT ADEQUATE HAMMER INFORMATION SO THAT THE PROPER ANALYSIS CAN BE PERFORMED.

THE BRIDGE CONTRACTOR SHALL EXCAVATE THE STREAM CHANNEL TO THE LINES AND GRADES SHOWN ON THE LONGITUDINAL SECTION AND SITUATION PLAN ON SHEET V.01. ALL SUCH WORK SHALL BE PAID FOR AS "EXCAVATION, CLASS 10 CHANNEL".

212-1

SOUNDING AND TEST BORING DATA SHOWN ON PLANS WERE ACCUMULATED FOR DESIGNING AND ESTIMATING PURPOSES. THEIR APPEARANCE ON THE PLAN DOES NOT CONSTITUTE A GUARANTEE THAT CONDITIONS OTHER THAN THOSE INDICATED WILL NOT BE ENCOUNTERED.

213-1

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL (EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT OF WAY, UNLESS SPECIFICALLY STATED IN THE PLANS OR APPROVED BY THE ENGINEER.

213-3

ALL BORROW AREAS, STOCKPILE AREAS, HAUL ROADS AND AREAS USED FOR MANEUVERING EQUIPMENT ON THIS PROJECT WILL REQUIRE SUBSOIL TILLAGE TO AN AVERAGE DEPTH OF 16 TO 20 INCHES PRIOR TO PLACEMENT OF TOPSOIL AND/OR STABILIZING CROP SEEDING. SUCH TILLAGE SHALL BE ACCOMPLISHED ON MAXIMUM OF THREE FOOT CENTERS AND AT RIGHT ANGLES TO THE FINISHED SLOPE OF THE BORROW.

EQUIPMENT USED TO ACCOMPLISH THE TILLAGE SHALL BE EQUIPPED WITH AN ARROWHEAD-TYPE SHOE SO AS TO PROVIDE LATERAL DISPLACEMENT AND LIMIT THE MOVEMENT OF THE SUBSOIL TO THE SURFACE. IT SHALL BE APPROVED BY THE ENGINEER FOR THE USE INTENDED. THIS WORK WILL BE CONSIDERED INCIDENTAL TO OTHER WORK ON THE PROJECT AND NO PAYMENT WILL BE ALLOWED.

IT IS INTENDED THAT FOLLOWING SUBSOIL TILLAGE, THE AREA REMAINS IN A "LOOSENED" CONDITION.
ADDITIONAL COMPACTION OR THE OPERATION OF HEAVY EQUIPMENT, OTHER THAN REQUIRED FOR
TOPSOIL PLACEMENT AND SHAPING SHALL NOT BE ALLOWED ON AREAS WHICH HAVE RECEIVED SUBSOIL
TILLAGE.

251-1

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ACCESS TO INDIVIDUAL PROPERTIES DURING CONSTRUCTION.

RELOCATED ACCESS SHALL BE COMPLETED TO INDIVIDUAL PROPERTIES PRIOR TO REMOVAL OF EXISTING ACCESS.

IF THE PERMANENT ACCESS CANNOT BE COMPLETED PRIOR TO REMOVAL OF THE EXISTING ACCESS, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN ALTERNATE ACCESS. TEMPORARY GRANULAR SURFACING WILL BE PAID FOR AS A CONTRACT ITEM OR BY EXTRA WORK.

261_1

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

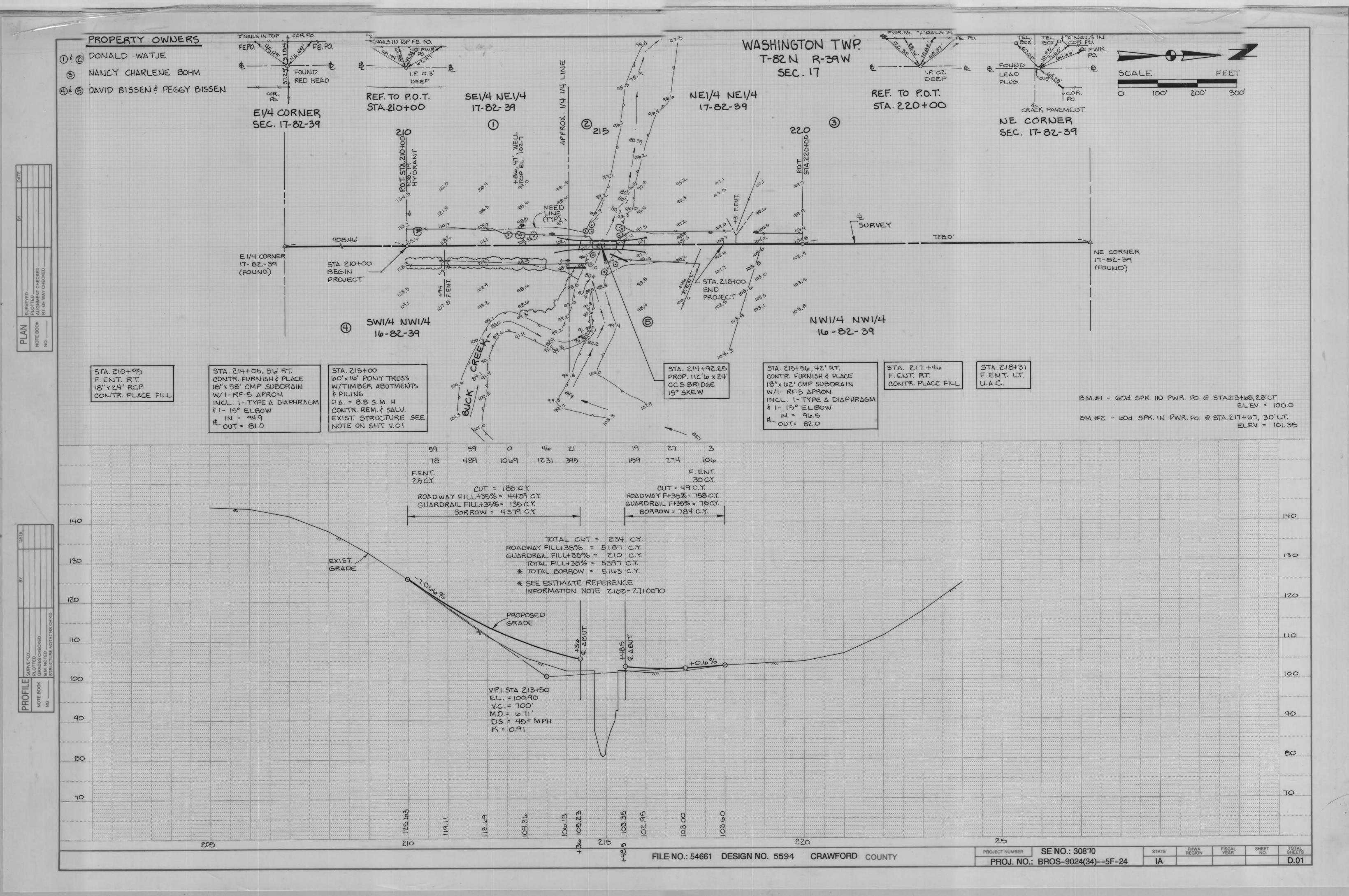
	ESTIMATE REFERENCE INFORMATION
DATA LISTED E	BELOW IS FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT CONSTITUTE A BASIS FOR ANY EXTRA WORK ORDERS.
ITEM CODE	DESCRIPTION
2102–2710070	INCLUDES 234 C.Y. CUT, 5397 C.Y. FILL+35%, 5163 C.Y. BORROW. TYPE "A" COMPACTION WILL BE REQUIRED. ALL AREAS TO RECEIVE NEW EMBANKMENT SHALL BE THOROUGHLY CLEAN OF ALL VEGETATION AND OTHER DEBRIS. EXISTING SURFACES SHALL BE PLOWED, STEPPED OR BENCHED PRIOR TO PLACEMENT OF NEW EMBANKMENT FILLS ALL AS DIRECTED BY THE ENGINEER. SUCH WORK SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO THIS ITEM. EXCESS MATERIAL AND UNSUITABLE MATERIAL SHALL BE HAULED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. THE COST OF HAULING AND DISPOSING OF THIS MATERIAL SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO THE PRICE BID FOR CLASS 10 EXCAVATION, ROADWAY AND BORROW.
	BORROW AREAS WILL BE PROVIDED BY THE COUNTY WITHIN 2000 FEET OF THE BRIDGE SITE. NO SEPARATE PAYMENT FOR OVERHAUL FROM BORROW AREAS SHALL BE MADE.
2104–2710020	SUITABLE CLASS 10 CHANNEL EXCAVATION MAY BE USED FOR ROADWAY BORROW. EXCESS MATERIAL AND UNSUITABLE MATERIAL SHALL BE HAULED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. THE COST OF HAULING AND DISPOSING OF THIS MATERIAL SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO THE PRICE BID FOR CLASS 10 CHANNEL EXCAVATION.
	GRANULAR SURFACE SHALL MEET THE REQUIREMENTS OF CLASS "C" GRAVEL IN ACCORDANCE WITH ARTICLE 4120, GRADATION NO. 10 AND SHALL INCLUDE THE COST OF SPREADING GRANULAR SURFACING OF ROADWAY SURFACE.
2401-6745650	INCLUDES 60' x 16' PONY TRUSS BRIDGE WITH TIMBER PILING AND ABUTMENTS AT STA. 215+00. SEE NOTE ON SHEET V.01.
	INCLUDES EXCAVATION NECESSARY TO CONSTRUCT INTEGRAL ABUTMENTS. SUITABLE CLASS 20 EXCAVATION MAY BE USED FOR ROADWAY BORROW. EXCESS MATERIAL AND UNSUITABLE MATERIAL SHALL BE HAULED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. THE COST OF HAULING AND DISPOSING OF THIS MATERIAL SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO THE PRICE BID FOR CLASS 20 EXCAVATION.
2403-0900000	TO BE CLASS "C" STRUCTURAL CONCRETE.
2417-2550018 2417-2550024	TO BE 15° ELBOWS.
2501-5425042 2501-5550042	INCLUDES 4 @ 49' & 4 @ 47'.
2501-5425053 2501-5550053	INCLUDES 8 @ 52' & 8 @ 53'. PIER PILE TO BE P10A TYPE 3 PILING.
2501-5475053	INCLUDES 8 @ 26' & 8 @ 25'. PIER PILE TO BE P10A TYPE 3 PILING.
	INCLUDES FURNISHING AND PLACING OF CLASS E REVETMENT STONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT THAT THE MAXIMUM STONE SIZE SHALL BE 750 POUNDS AND THE MATERIAL SHALL MEET THE FOLLOWING SIZE LIMITATIONS.
	STONE WT., POUNDS MINIMUM % LARGER THAN
	250 80 5 90
	INCLUDES ALL ADVANCED WARNING SIGNS, TYPE III BARRICADES AND OTHER TRAFFIC CONTROL DEVICES FOR THIS PROJECT WHICH SHALL BE LOCATED AT THE BEGINNING AND THE END OF THE PROJECT, AND WHERE THE ROAD FOR CONSTRUCTION INTERSECTS OTHER PUBLIC ROADS. ALSO SHALL INCLUDE ALL OTHER BARRICADES AND WARNING SIGNS NECESSARY TO PROTECT THE CONTRACTOR'S WORK AND EQUIPMENT AND THE SAFETY OF THE TRAVELING PUBLIC. ALL SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" 1988.
	INCLUDES FURNISHING, INSTALLING, MAINTAINING, REPAIRING AND RELOCATING ALL THE SIGNS AND BARRICADES AS SHOWN ON THE TRAFFIC CONTROL PLAN. FULL PAYMENT FOR THIS WORK SHALL BE THE LUMP SUM PRICE IN THE CONTRACT.
2601-2636042	INCLUDES ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS.

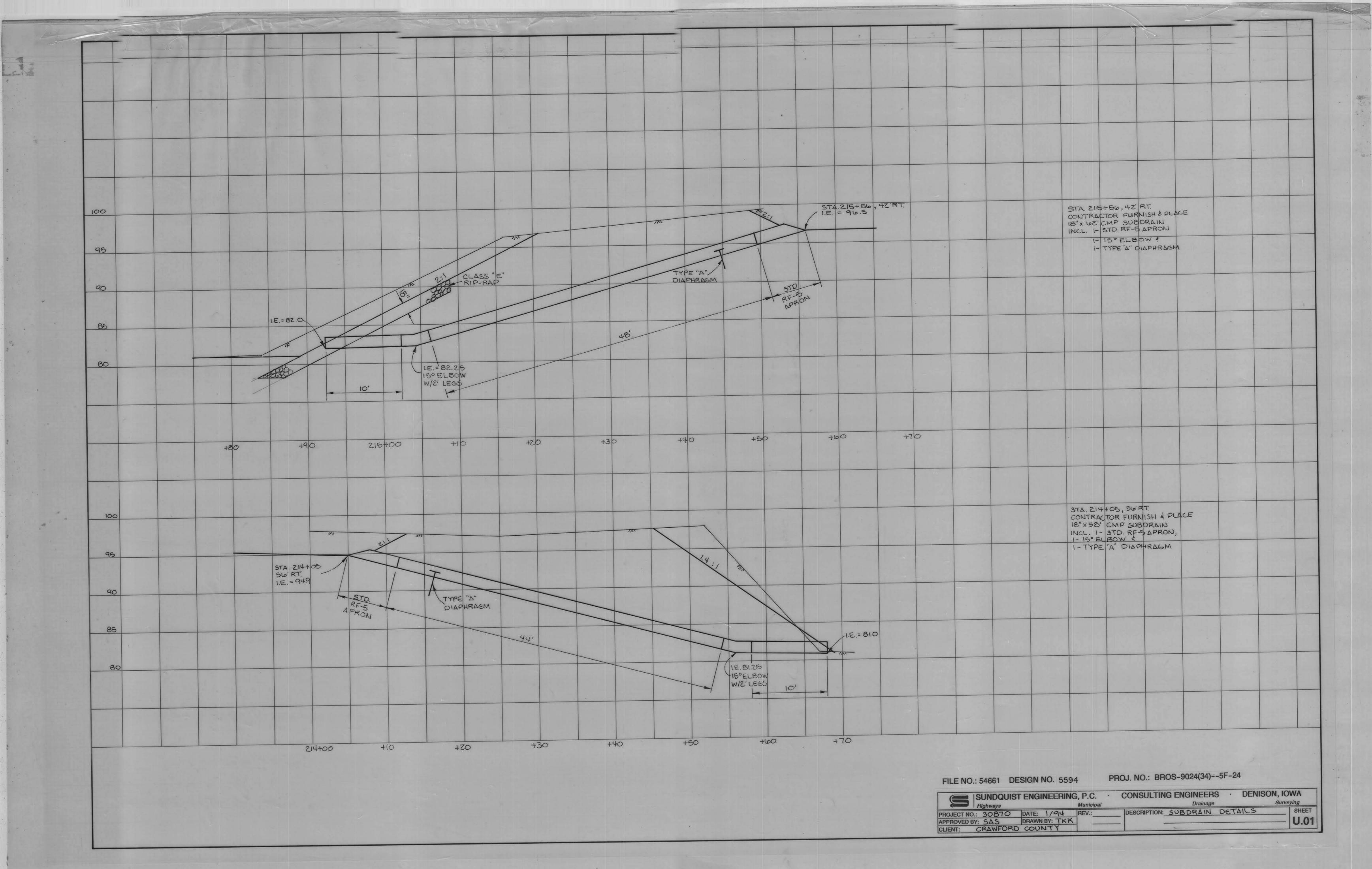
	DESIGN NO. 559 CRAWFORD CO SECTION 17	I IN THAT	TO MARKET I FER BUCK CRE T82N R39W		STA. 214+92.25 SKEW 15° L.A. WASHINGTON TWP.			
		ESTIMATED PROJEC	T QUANT	ITIES				
					G	3		
CONSTRUCTION					ESTIMATED		AS B	UILT
USE ONLY	ITEM CODE	ITEM	UNIT	2 ABUTS.	SUPERST.	TOTAL	2 ABUTS.	SUPER
	2101-0850002	CLEARING AND GRUBBING	UNITS	-	-	448.4		
	2102-2710070	EXCAVATION, CLASS 10, ROADWAY & BORROW	CY	-		5397		
	2104-2710020	EXCAVATION, CLASS 10, CHANNEL	CY	-	2-0	470		
	2312-8260201	SURFACING, GRANULAR, CLASS C GRAVEL - ON ROAD	TONS	-	_	215		
	2401-6745650	REMOVAL OF EXISTING STRUCTURES	LUMP SUM	-	-	LS		
	2402-2720000	EXCAVATION, CLASS 20	CY	60	-	60		
	2403-0900000	CONCRETE, STRUCTURAL	CY	18.8	198	216.8		
	2404-7775000	STEEL, REINFORCING	LBS	2488	52350	54838		
	2414-6424120	RAIL, CONCRETE, OPEN	LF	-	247.2	247.2		
	2417-0225018	APRONS, METAL, 18 IN. DIA.	ONLY	-		2		
	2417-2150018	DIAPHRAGM, CORRUGATED METAL TYPE A, 18 IN.	ONLY	-	-	2	BUILDING	
	2417-2550018	ELBOWS, CORRUGATED METAL PIPE, 18 IN. DIA.	ONLY	-	-	2		
	2501-5425042	PILING, DRIVE STEEL BEARING HP10X42	LF	384	-	384		
	2501-5425053	PILING, DRIVE STEEL BEARING HP12X53	LF	_	840	840		
	2501-5475053	PILING, ENCASE STEEL BEARING HP12X53	LF	-	408	408		
	2501-5550042	PILING, FURNISH STEEL BEARING HP10X42	LF	384		384		
		PILING, FURNISH STEEL BEARING HP12X53	LF		840	840		
	2502-8215118	SUBDRAIN, CORRUGATED METAL PIPE, 18 IN. DIA.	LF			120		
		GUARDRAIL, END ANCHORAGES, BEAM RE-52	ONLY	-		4		
		GUARDRAIL, FORMED STEEL BEAM	LF			150		
	Company of the second second	GUARDRAIL, FORMED STEEL THRIE BEAM	LF			125		
		GUARDRAIL, POSTS, BEAM	ONLY		-	48		
		GUARDRAIL, END ANCHORAGES, BEAM RE-69	ONLY	-		4		
		FABRIC, ENGINEERING	SY			778		
		REVETMENT, CLASS E, RIP RAP	TONS		-	447		
		SAFETY CLOSURE	ONLY	-	-	2		
	THE RESERVE THE PARTY OF THE PA	OBJECT MARKER, TYPE 2	ONLY		-	8		
		OBJECT MARKERS, TYPE 3	ONLY	-	-	4		
		TRAFFIC CONTROL	LUMP SUM	_	_	LS		
	The second secon	MOBILIZATION	LUMP SUM	-		LS		
		SEEDING, FERTILIZING AND MULCHING	ACRES			1.3		

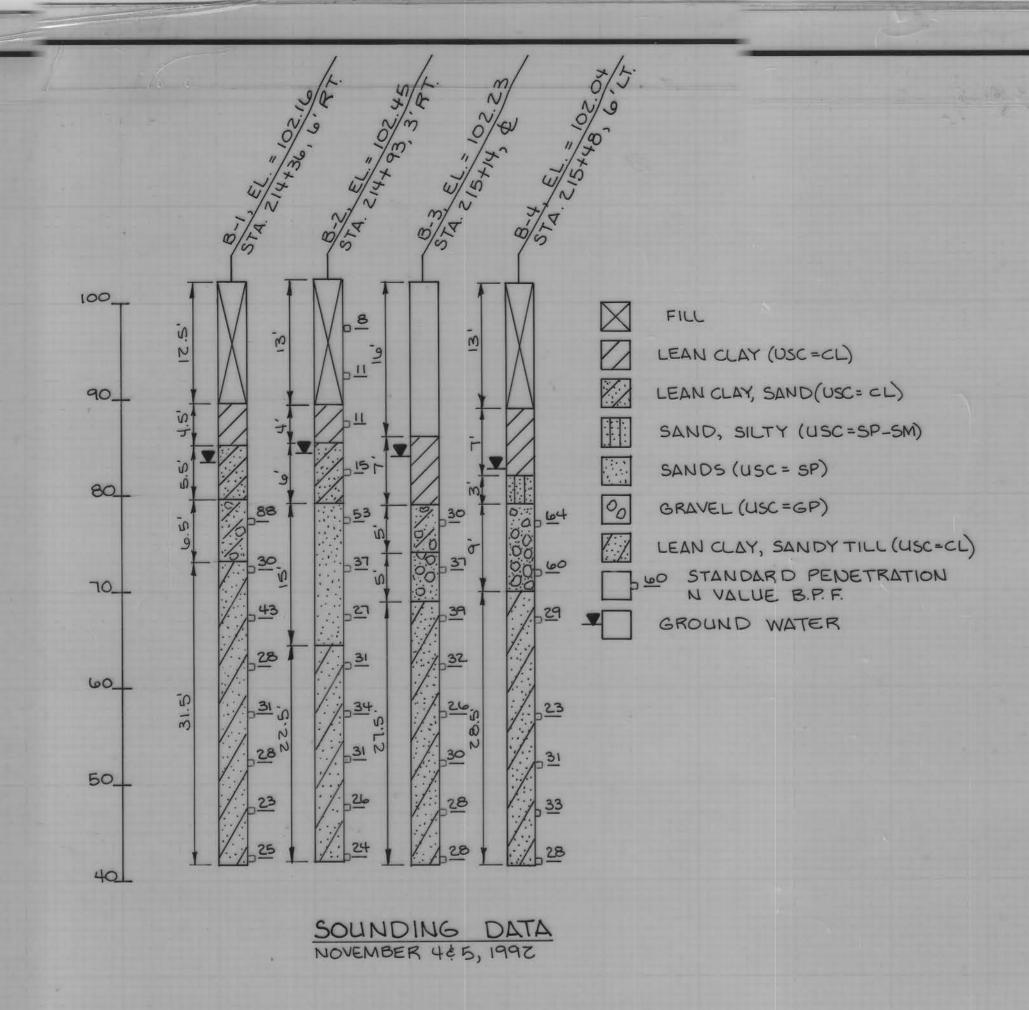
LETTING DATE: MAY 3, 1994

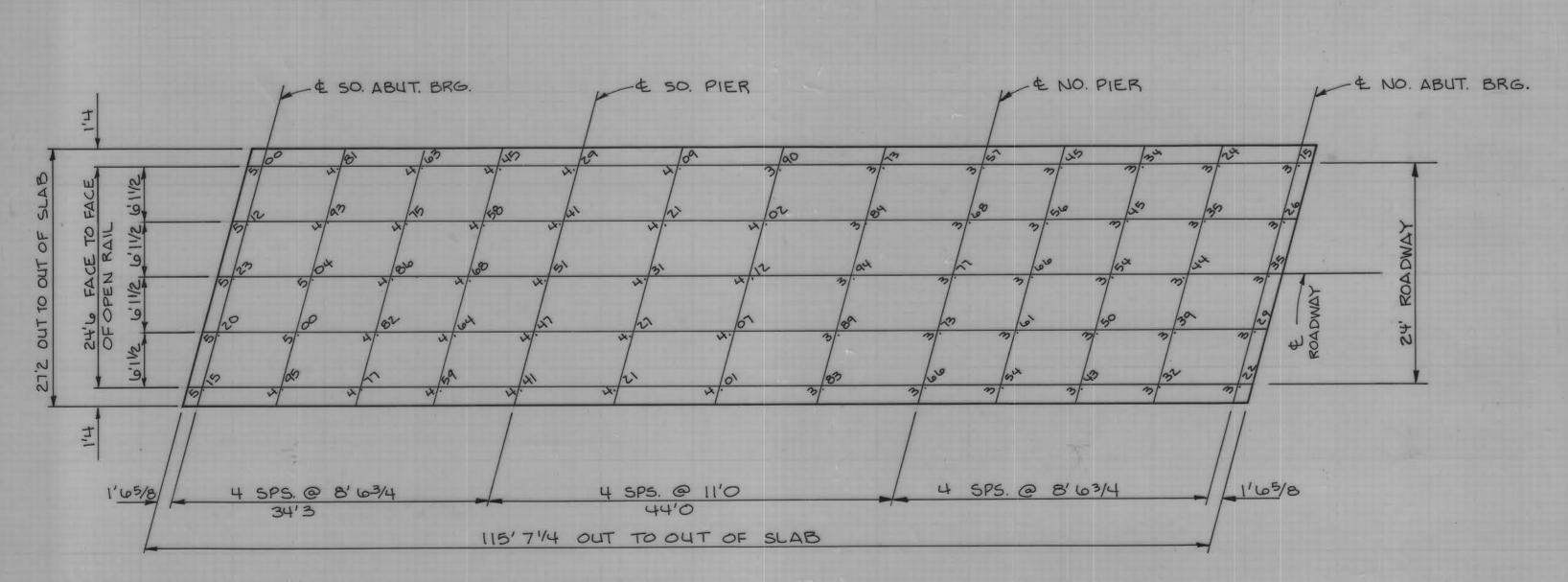
FILE NO.: 54661 DESIGN NO.: 5594

BROS-9024(34)--5F-24



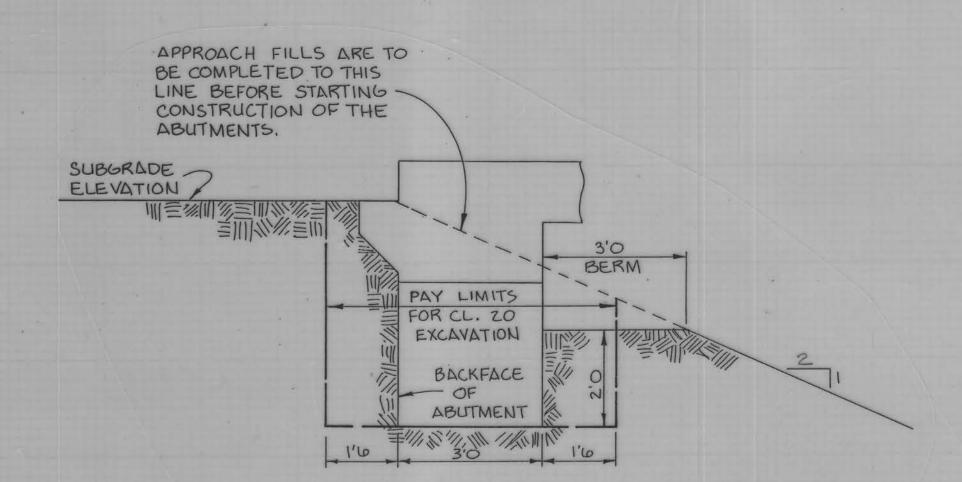






TOP OF SLAB ELEVATIONS

(ADD 100' TO ABOVE ELEVATIONS)



CLASS 20 EXCAVATION DETAIL

			ABULAI			G FOR GU			ATIONS		
L	OCATION POINT	TION POINT DIMENSIONS *									
NO.	STATION	TYPE	A/T	Y	z	CLASS 10 EXCAV.	EMBANK. IN PLACE	Size	Туре	Length	REMARKS
			Lin.Ft.	Lin.Ft.	Lin.Ft.	Cu. Yds.* *	Cu. Yds.	Inches		Lin.Ft.	
1	214+92.25	2	56.25	5	19	70		_	-	-	S. END, RT. SIDE
2	214+92.25	2	56.25	5	19	65	-	-	-	-	S. END, LT. SIDE
3	214+92.25	2	56.25	5	19	40	-	-	-	-	N. END, RT. SIDE
4	214+92.25	2	56.25	5	19	35		_	-	-	N. END, LT. SIDE

* * INCLUDES 35% SHRINKAGE

			17	DOLAI	TION OF S		Thrie Beam							, , , , , , , , , , , , , , , , , , ,			
-	LOCATION				FORMED STEEL BEAM GUARDRAIL							BEAM GUARDRAIL POSTS					
-			-		A	Н		T					Without	POST &	ANCH	OR	
		STANDARD	-		STS *		STS *		TOTAL	TOTAL	With	8" x 8"	Spacer	ADAPTOR	SYSTI	EM	
NO.	STATION	ROAD	CASE	"W" Thrie Beam	Thrie	Thrie Beam	"W"	"W"	THRIE	Space	r Blocks	Blocks					
			PLAN		Beam	am 31.25'	Beam	31.25	Beam	BEAM	BEAM	10"x10"x6'	8"x8"x6'	6"x8"x6'	RE-37		
				Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	No.	No.	No.	No.	Type	No.	REMARKS
	214+92.25	RE-65	U	37.5				37.5	75.0			10	4		RE-52	2	RT.
					31.25	Initial establishment between the between	31.25			62.5	6	4		-	RE-69	2	RT.
	to the same of	RE-65	U	37.5				37.5	75.0			10	4	-	RE-52	2	LT.
					31.25	-	31.25			62.5	6	4		7 -	RE-69	2	LT.

TABULATION OF SAFETY CLOSURES

REFER TO SECTION 2518 OF THE STANDARD SPECIFICATIONS

NO. STATION REMARKS

1 210+00 SOUTH END
2 218+00 NORTH END

		ATION OF DELIN			CT MARKEF ot a Bid Item	RS	
LOCATION		DELINEATOR					
		Single White	Type 2	Type 2 Type 3		Offset Brackets	
Station	Type *	D-1W	OM2-3YV	OM-3L	OM-3R	* *	REMARKS
		Number	Number	Number	Number	Number	
214+92.25	1	7	4	1	1		SOUTH EN
214+92.25	1	7	4	1	1		NORTH END

FILE NO.: 54661 DESIGN NO. 5594

PROJ. NO.: BROS-9024(34)--5F-24

		Loiditito.							
		T ENGINEERING		300	CONSULTIN	IG ENGINEERS	•	DENISON, IC	
	Highways		Municipal			Drainage		Surv	eying
	PROJECT NO.: 30870	DATE: 1/94	REV.:		DESCRIPTION:	MISCELLANEC	JUS	DETAILS	SHEET
-	APPROVED BY: SAS	DRAWN BY: TKK							1100
	CLIENT: CRAWFORD	COUNTY							0.02

