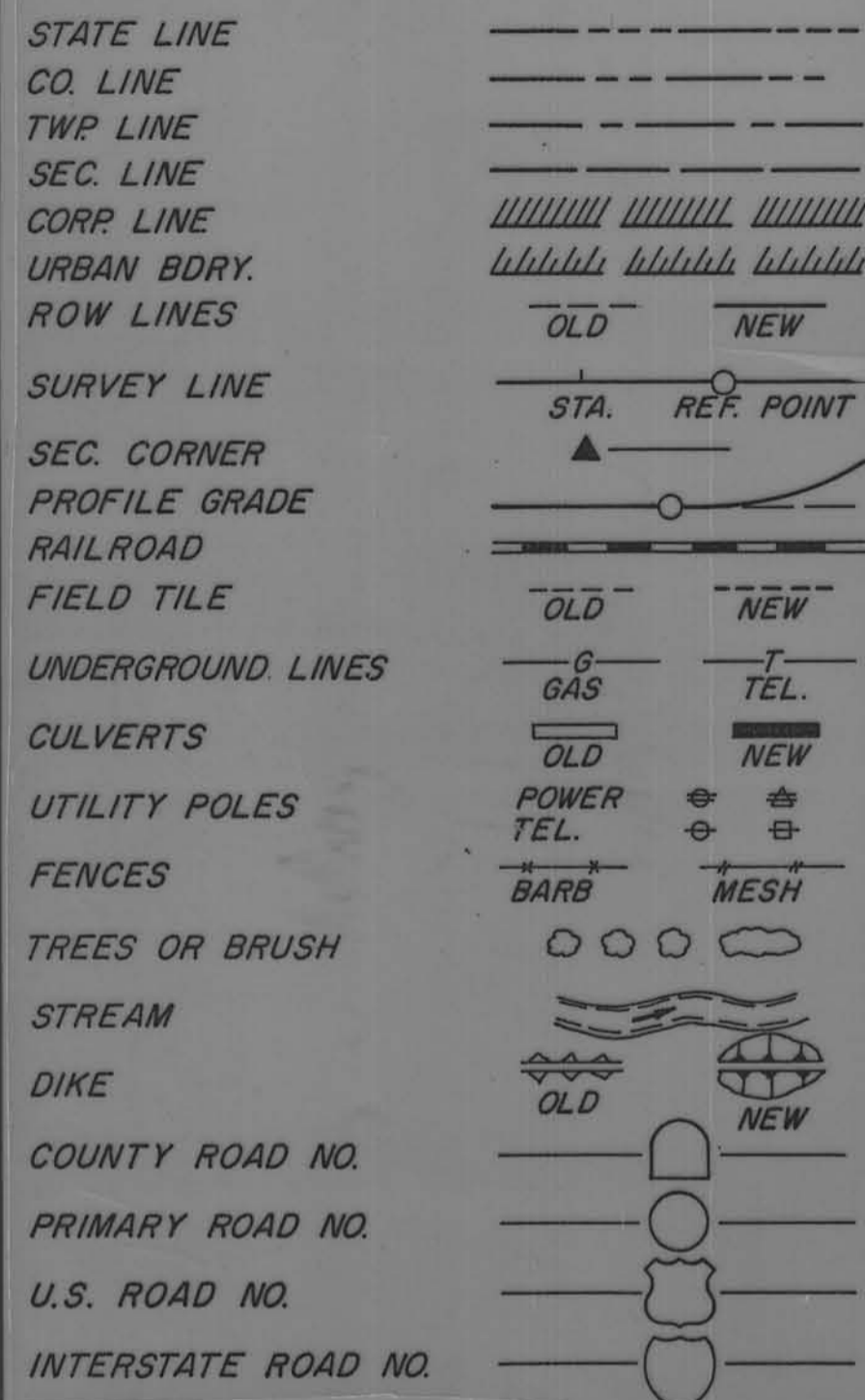


CONVENTIONAL SIGNS



IOWA
DEPARTMENT OF TRANSPORTATION
Highway Division
 PLANS OF PROPOSED IMPROVEMENT ON THE
FARM TO MARKET SYSTEM
CRAWFORD COUNTY
GRADING & BRIDGE PROJECT
FM-24(14)--55-24

The Standard Specifications, Series of 1984, of the Iowa Department of Transportation Shall Apply to Construction Work on this Project

Plus Current Special Provisions and Supplemental Specifications

Scales: As Noted

Project Number: **FM-24(14)--55-24**

INDEX OF SHEETS

No.	Description
1	TITLE SHEET
2	ESTIMATED QUANTITIES, ITEM REFERENCE INFORMATION & GENERAL NOTES
3	GENERAL & SITUATION PLANS, HYDRAULICS
4	SOUNDING DATA & SUPERSTRUCTURE DETAILS
5	PLAN & PROFILE
6	IOWA DEPARTMENT OF TRANSPORTATION DETAIL SHEET NO. 520-26
7-10	*CHANNEL CROSS SECTIONS
11-14	*ROADWAY CROSS SECTIONS

*MAY BE OBTAINED AT COUNTY ENGINEER'S OFFICE.

MILEAGE SUMMARY

Div.	Location	Lin. Ft.	Miles
	STA. 91+00 TO STA. 101+50	1050.00	
	DEDUCT FOR BRIDGE AT STA. 93+62	103.00	
	NET LENGTH OF ROADWAY IN PROJECT	947.00	0.1794
	NET LENGTH OF BRIDGE IN PROJECT	103.00	0.0195
	TOTAL LENGTH OF PROJECT	1050.00	0.1989

ROAD STANDARD PLANS

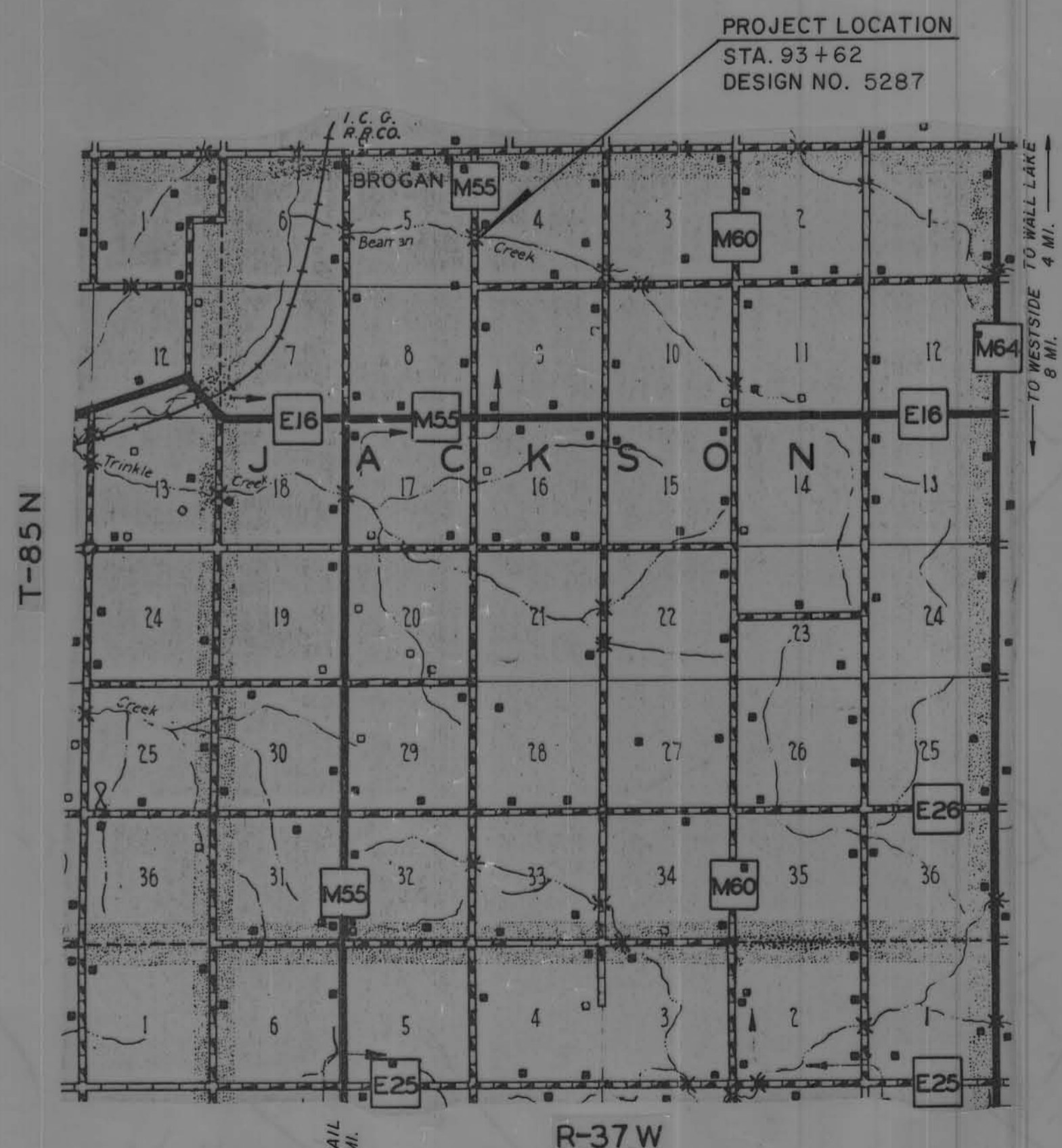
The following Standard Plans shall be considered applicable to construction work on this project.

Identification	Date	Identification	Date	Identification	Date
RE-2A	2-17-87	RE-48A	8-20-85		
RE-3	12-9-83	RE-49	1-19-88		
RE-7	5-13-86	RE-52	7-21-87		
RE-12A	5-13-86	RE-59	1-19-88		
RE-47	11-10-87				

BRIDGE STANDARDS

(May be obtained at Bridge Design Services)

Standard	Date Issued	Latest Revision	Standard	Date Issued	Latest Revision
J30C-87	JUNE, 1987	—	J30C-11-87	JUNE, 1987	—
J30C-3-87	JUNE, 1987	—	J30C-17-87	JUNE, 1987	—
J30C-6-87	JUNE, 1987	—	J30C-21-87	JUNE, 1987	—
J30C-7-87	JUNE, 1987	—	PIOA	MAY, 1984	11-1-84
J30C-9-87	JUNE, 1987	—			



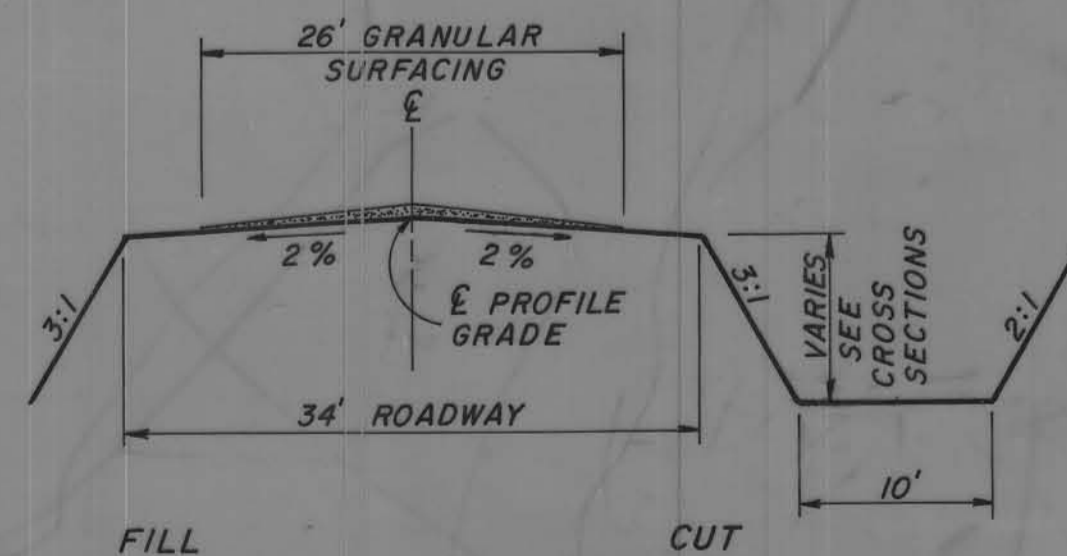
PROJECT TRAFFIC CONTROL PLAN

THIS ROAD WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.00, 1984 STANDARD SPECIFICATIONS. TRAFFIC CONTROL DEVICES, PROCEDURES AND LAYOUTS SHALL BE AS PROVIDED FOR BY SUPPLEMENTAL SPECIFICATIONS FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS, SPECIFICATION 1039.

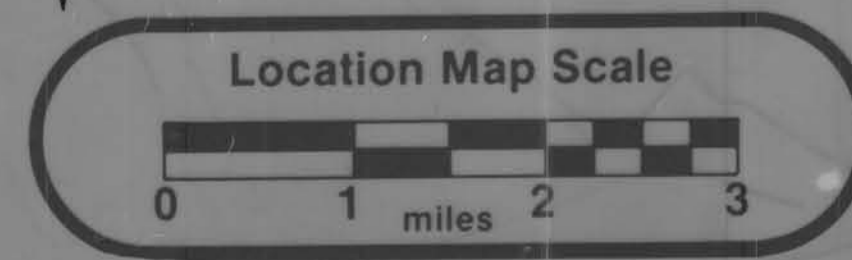
SEE DETAIL SHEET 520-26 "SIGNING FOR TEMPORARY ROAD CLOSURES IN RURAL AREAS" (PROJECT ROUTE CLOSED TO TRAFFIC). SHEET 6 OF THE PLANS. DETOUR WILL BE PROVIDED BY COUNTY.

DESIGN STRESSES

SEE STANDARD BRIDGE PLAN J30C-87



TYPICAL CROSS SECTION
NOT TO SCALE



Design No. 5287

FHWA No. 129870

1984 AADT 15 V.P.D.

File No. 53405 *DDC 3-25-88* *LJA 4/16/88* Crawford County

Machyn E. Hafner
Don Jensen
LeRoy A. Hansson
V. E. Anderson
Eileen Heiler
 Approved
 Board of Supervisors

APPROVED
H. Dale Wight 2-17-87
 H. DALE WIGHT, P.E. DATE
 CRAWFORD COUNTY ENGINEER
 I hereby certify that this plan was prepared under my supervision and that engineering decisions with regard to the design were made by me or by other duly registered professional engineers under the laws of the State of Iowa. *Stephen D. Sundquist*
 5107 2-13-86
 Iowa Registration Number Date

Iowa Department of Transportation
Highway Division
 Authorized for Letting
DeW. Anderson 4-20-87
 Deputy Chief Engineer Date
 U.S. Department of Transportation
 Federal Highway Administration
 Approved
 Division Engineer Date

GENERAL NOTES

CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OF THE ACTUAL STARTING DATE OF CONSTRUCTION. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL COORDINATE WITH EACH COMPANY TO DETERMINE ACTUAL LOCATION IN THE FIELD AND WHICH UTILITY MUST BE ADJUSTED. CONTRACTOR IS TO USE DUE CAUTION IN WORKING OVER AND AROUND ALL UTILITY LINES. BREAKS IN ANY UTILITY LINE DUE TO THE CONTRACTOR'S CARELESSNESS ARE TO BE REPLACED AT HIS EXPENSE WITHOUT COST TO THE OWNER.

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.

ANY INCONVENIENCE INCURRED BY THE CONTRACTOR DUE TO ARCHAEOLOGICAL WORK SHALL BE CONSIDERED INCIDENTAL TO CLASS 10 EXCAVATION, ROADWAY AND BORROW.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR MATERIAL WHICH IS NOT DESIRABLE TO BE INCORPORATED IN THE WORK INVOLVED ON THIS PROJECT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES.

CONTRACTOR TO BLOCK TERRACES CUT BY EXCAVATION OR BORROW. COST TO BE INCLUDED IN AND CONSIDERED INCIDENTAL TO OTHER WORK ON THE PROJECT.

ALL EXISTING CULVERT PIPE TO BE REMOVED AND SALVAGED SHALL BE NEATLY STOCKPILED WITHIN 300' OF THE SITE AND LOADED BY CONTRACTOR ON COUNTY TRUCK AT THE COUNTY'S CONVENIENCE, AS DIRECTED BY THE COUNTY ENGINEER.

ESTIMATE REFERENCE INFORMATION

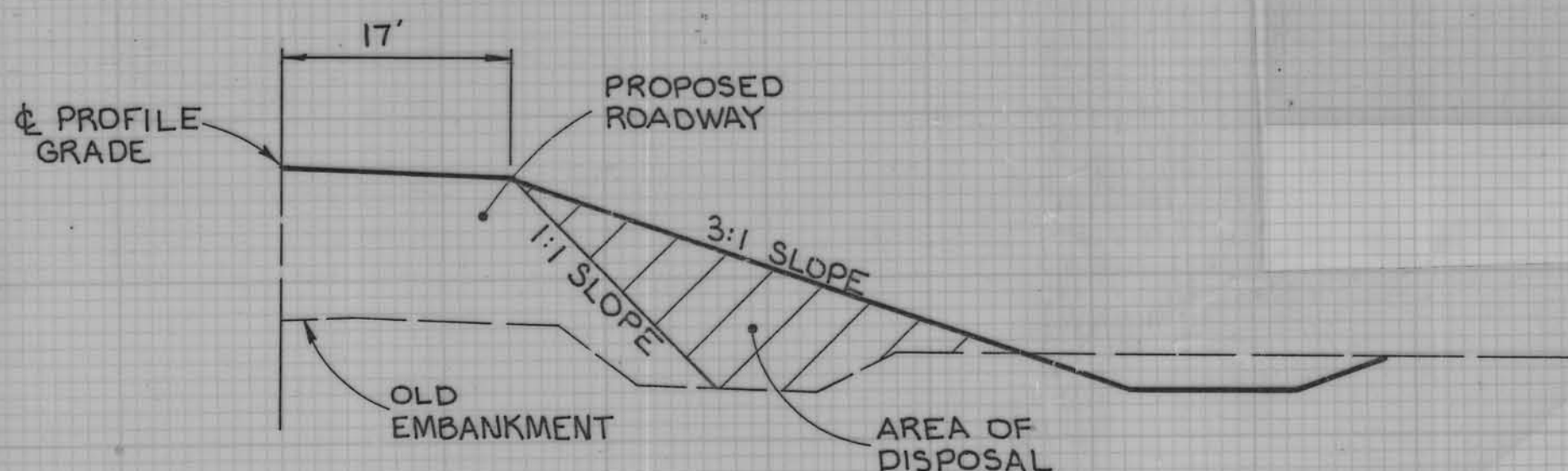
DATA LISTED BELOW IS FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT CONSTITUTE A BASIS FOR ANY EXTRA WORK ORDER.

1. INCLUDES EXCAVATION REQUIRED FOR THE COMPLETE INSTALLATION OF THE GRANULAR BACKFILL. REFER TO DETAIL ON SHEET 4.
3. COARSE AGGREGATE SHALL BE CLASS 2 DURABILITY. THIS ITEM INCLUDES 206.7 CU. YDS. OF CLASS "D" STRUCTURAL CONCRETE (203.1 CU. YDS. FOR SUPERSTRUCTURE, 2.60 CU. YDS. FOR WINGS AND 1.0 CU. YD. FOR TEMPORARY PAVING BLOCKS), AND 22.2 CU. YDS. OF CLASS "C" STRUCTURAL CONCRETE FOR ABUTMENTS. COST OF FURNISHING AND PLACING 4 FLOOR DRAINS TO BE INCIDENTAL TO THIS ITEM.
4. & 5. SHALL BE 16 GA. RIVETED PIPE WITH 2' COUPLING BANDS.
6. BID ITEM INCLUDES 208 CU. YDS. FOR RIP RAP EXCAVATION UNDER BRIDGE. USE 6,283 CU. YDS. OF THE CLASS 10 CHANNEL EXCAVATION FOR ROADWAY FILL. ENGINEER IS TO DETERMINE SUITABILITY OF MATERIAL. TYPE "A" COMPACTION SHALL BE REQUIRED. OVERHAUL IS INCIDENTAL. THE REMAINDER OF THE CLASS 10 CHANNEL EXCAVATION SHALL BE WASTED OR USED TO CONSTRUCT BLOCKS OR DIKES ACROSS THE OLD CHANNEL AS DIRECTED BY THE ENGINEER. SEE CHANNEL CROSS SECTIONS AND SHEET 3 FOR OTHER DETAILS. TYPE "A" COMPACTION WILL NOT BE REQUIRED FOR CHANNEL BLOCKS OR DIKES.
7. TYPE "A" COMPACTION SHALL BE REQUIRED. OVERHAUL IS INCIDENTAL TO BID PRICE FOR CLASS 10 EXCAVATION, ROADWAY AND BORROW.
- 9., 10. & 11. SEE TABULATION THIS SHEET.
19. INCLUDES REMOVAL OF EXISTING BRIDGE AT STA. 93+62. SEE NOTE ON SHEET 3.
20. APPROXIMATELY 670 SQ. YDS. OF ENGINEERING FABRIC IS TO BE INCIDENTAL TO THIS ITEM. ENGINEERING FABRIC SHALL BE IN ACCORD WITH ARTICLE 4,196.01C OF THE STANDARD SPECIFICATIONS. ENGINEERING FABRIC IS TO BE AN APPROVED BRAND PER I.M. 491.14.
22. INCLUDES THE EXCAVATION NECESSARY FOR THE SUBDRAIN INSTALLATION AND THE COST OF FURNISHING AND PLACING 15 CU. YDS. OF POROUS BACKFILL.
24. GRAVEL SHALL MEET THE REQUIREMENTS OF CLASS C GRAVEL IN ACCORDANCE WITH ARTICLE 4120.03. PRICE BID TO INCLUDE THE SPREADING OF GRAVEL ON ROAD SURFACE.
25. ON ALL BORROW BEYOND 33' RIGHT-OF-WAY, SALVAGE 8" OF TOPSOIL AND RESPREAD AFTER GRADING IS COMPLETED.
26. ALL ADVANCE WARNING SIGNS, TYPE III BARRICADES AND OTHER TRAFFIC CONTROL DEVICES FOR THIS PROJECT SHALL BE LOCATED AT THE BEGINNING AND END OF THE PROJECT AND WHERE THE ROAD FOR CONSTRUCTION INTERSECTS OTHER PUBLIC ROADS AND SHALL INCLUDE ALL OTHER BARRICADES AND WARNING SIGNS NECESSARY TO PROTECT THE CONTRACTOR'S WORK AND EQUIPMENT AND FOR THE PROVIDING FOR 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", 1978.

THE LUMP SUM BID PRICE FOR TRAFFIC CONTROL SHALL INCLUDE THE COST FOR FURNISHING, PLACING, MAINTENANCE AND REMOVAL.
27. SHALL BE IN ACCORDANCE WITH STD. RE-47 & RE-48A. 2 LEFT OM-3L AND 2 RIGHT OM-3R TYPE 3 OBJECT MARKERS REQUIRED.
28. SHALL BE IN ACCORDANCE WITH STD. RE-7 & RE-48A. 8 TYPE 2 TRIPLE YELLOW OBJECT MARKERS (OM2-3YV) REQUIRED. INCLUDES 4 YELLOW GUARDRAIL MARKERS.
21. THIS ITEM INCLUDES THE FOLLOWING BARS: 385.0 LIN. FT. OF #2 BARS; 3,184.8 LIN. FT. OF #4 BARS; 10,029.9 LIN. FT. OF #5 BARS; 2,591.0 LIN. FT. OF #6 BARS; 403.7 LIN. FT. OF #7 BARS; 3,910.4 LIN. FT. OF #8 BARS; 3,826.8 LIN. FT. OF #9 BARS; AND 2,203.5 LIN. FT. OF #10 BARS.

ESTIMATED QUANTITIES

NO.	ITEM	UNIT	SUPERSTR.	ABUTMENTS	PIERS	TOTAL
1.	BACKFILL, GRANULAR	CU. YDS.		74		74
2.						
3.	CONCRETE, STRUCTURAL	CU. YDS.	206.7	22.2		228.9
4.	CULVERT, CORR. METAL ENTRANCE PIPE, 18 IN. DIA.	LIN. FT.				104
5.	CULVERT, CORR. METAL ENTRANCE PIPE, 24 IN. DIA.	LIN. FT.				86
6.	EXCAVATION, CLASS 10 CHANNEL	CU. YDS.				8,649
7.	EXCAVATION, CLASS 10 ROADWAY & BORROW	CU. YDS.				10,516
8.	EXCAVATION, CLASS 20	CU. YDS.		68		68
9.	GUARDRAIL, END ANCHORAGES, BEAM RE-52	NO.				4
10.	GUARDRAIL, FORMED STEEL BEAM	LIN. FT.				250
11.	GUARDRAIL, POSTS, BEAM	NO.				52
12.	MOBILIZATION	LUMP SUM				LUMP SUM
13.	PILING, STEEL BEARING HP10x42	FURNISH LIN. FT.		5 @ 40'		425
14.	PILING, STEEL BEARING HP10x42	DRIVE LIN. FT.		5 @ 45'		425
15.	PILING, STEEL BEARING HP12x53	FURNISH LIN. FT.		5 @ 40'	16 @ 60'	960
16.	PILING, STEEL BEARING HP12x53	DRIVE LIN. FT.		5 @ 45'	16 @ 60'	960
17.	PILING, STEEL BEARING HP12x53	ENCASE LIN. FT.			307.6	307.6
18.	RAIL, CONCRETE BARRIER	LIN. FT.	222			222
19.	REMOVAL OF EXISTING STRUCTURES	LUMP SUM				LUMP SUM
20.	REVTMENT, CLASS "E" RIP RAP	TONS				595
21.	STEEL, REINFORCING EPOXY COATED	LBS.	47,352	2,974		50,326
22.	SUBDRAIN, AS PER PLAN	LIN. FT.				96
23.	SUBDRAIN OUTLET, CORR. METAL PIPE 6 IN. DIA.	NO.				2
24.	SURFACING, GRANULAR, CLASS C GRAVEL ON ROAD	TONS				266
25.	TOPSOIL, STRIP, SALVAGE & RESPREAD	CU. YDS.				696
26.	TRAFFIC CONTROL	LUMP SUM				LUMP SUM
27.	OBJECT MARKER, TYPE 3	NO.				4
28.	OBJECT MARKER, TRIPLE YELLOW	NO.				8



DISPOSAL OF UNSUITABLE MATERIAL AND/OR CLASS 10 CHANNEL EXCAVATION AND CLASS 20 & 21 EXCAVATION

TABULATION OF "W" BEAM GUARDRAIL INSTALLATIONS

(Refer to appropriate Standard Road Plans)

108-8
1-23-85

NO.	STATION	STANDARD ROAD PLAN	CASE	FORMED STEEL "W" BEAM GUARDRAIL				BEAM GUARDRAIL POSTS				BEAM GUARDRAIL END ANCHORAGE				REMARKS
				10" x 10" SINGLE SPACER	8" x 8" SINGLE SPACER	8" x 8" NO SPACER	6" x 8" NO SPACER	RE-26	RE-28	RE-33	RE-52, RE-53	RE-27*	RE-41*	RE-49*	RE-55*	
	93+62	RE-59	M	62.5	62.5	250	12	32	8			RE-52	4	RE-59	4	

H. GENE MCKEOWN AND CONSULTING ENGINEERS

LAND SURVEYORS

AND OFFICES

ASSOCIATES INC. COUNCIL BLUFFS

RED OAK

DENISON

PROJ. NO. 31115
DATE JAN., 1987

DRAWN BY TKK
APPD. BY SAS

CLIENT CRAWFORD COUNTY, IOWA

DATE 1-8-88 REVISIONS NEW J30C-87 STD. USED

TITLE ESTIMATED QUANTITIES, ESTIMATE REFERENCE INFORMATION & GENERAL NOTES

SHT. 2 / 14

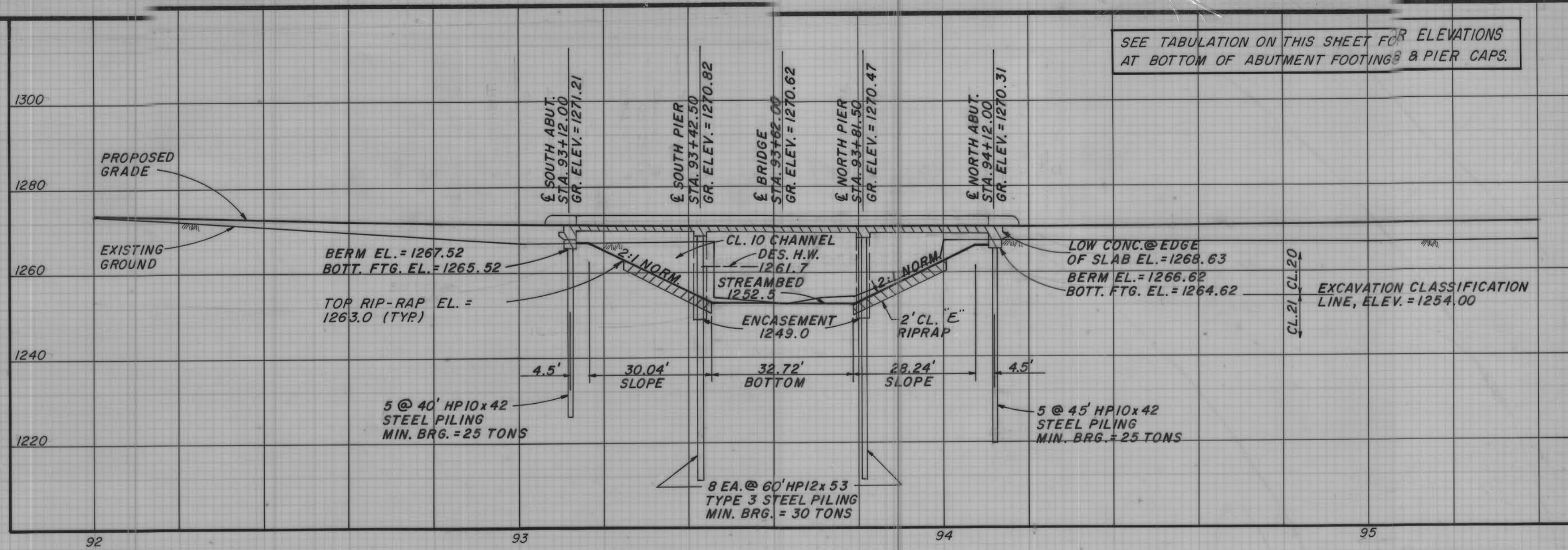
FILE NO. 53405

DESIGN NO. 5287

CRAWFORD COUNTY PROJ. NO. FM-24(14)-55-24

ELEVATIONS AT BOTTOM OF FOOTINGS (ABUTMENTS) & BOTTOM OF MONOLITHIC CAPS (PIERS)				
	SOUTH ABUTMENT	SOUTH PIER	NORTH PIER	NORTH ABUTMENT
WEST EXTERIOR PILE	1265.52	1268.17	1267.82	1264.62
ROADWAY	1265.52	1268.36	1268.01	1264.62
EAST EXTERIOR PILE	1265.52	1268.17	1267.82	1264.62

CONTRACTOR MAY PLACE UP TO 200 CUBIC YARDS OF FILL MATERIAL BELOW ELEVATION 1253.0 IN ORDER TO CONSTRUCT A TEMPORARY STREAM CROSSING AND/OR ACCOMPLISH OTHER WORK NECESSARY TO COMPLETE CONSTRUCTION. ADDITIONAL FILL MATERIAL MAY BE PLACED ABOVE ELEVATION 1253.0 AS NECESSARY TO COMPLETE THE WORK.



LONGITUDINAL SECTION ON CENTERLINE
SCALE: 1" = 20'

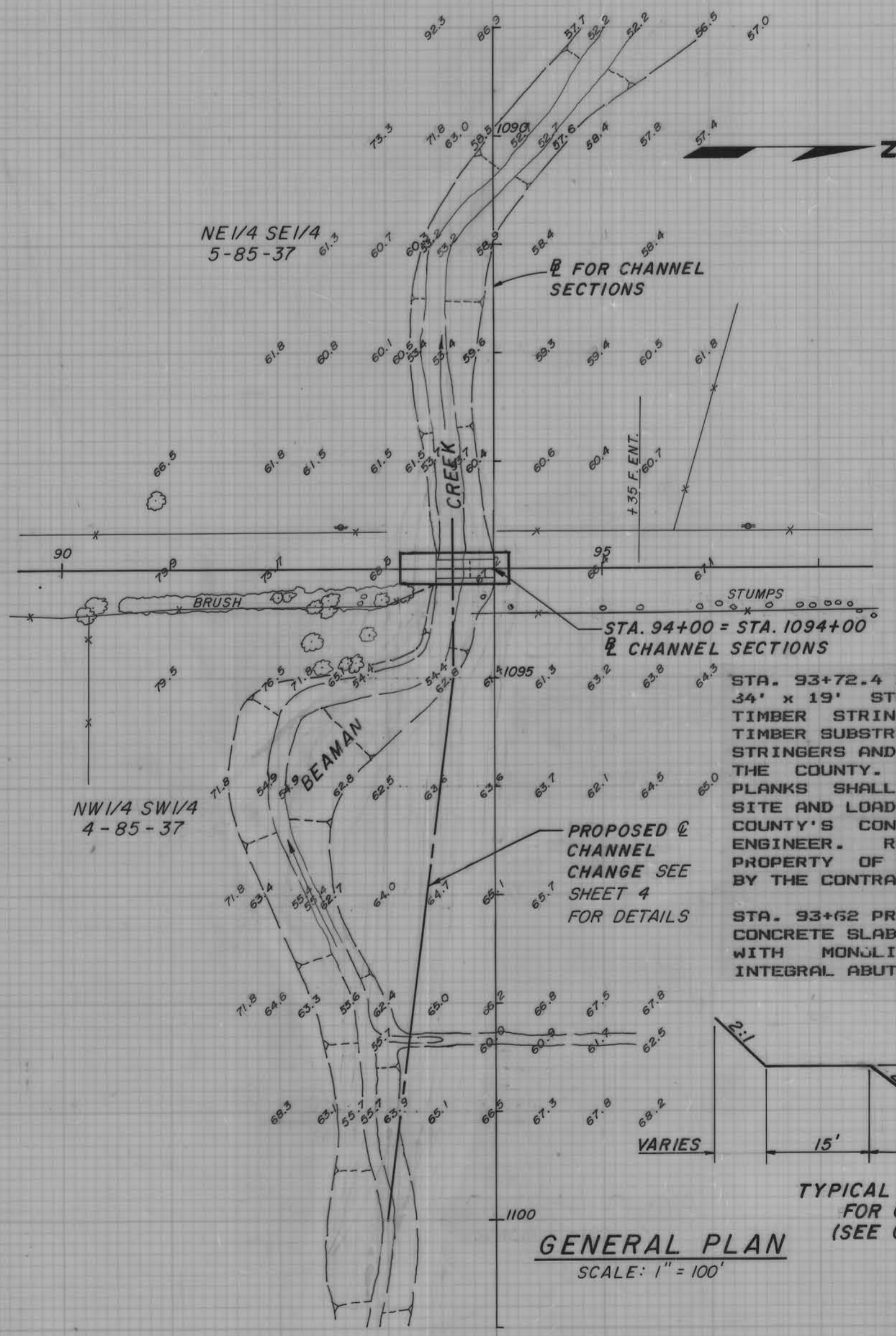
SEE TABULATION ON THIS SHEET FOR ELEVATIONS AT BOTTOM OF ABUTMENT FOOTINGS & PIER CAPS.

B.M. # 2 60d SPK. IN PWR. PO. @ STA. 92+56, 36' LT. EL. = 1265.21

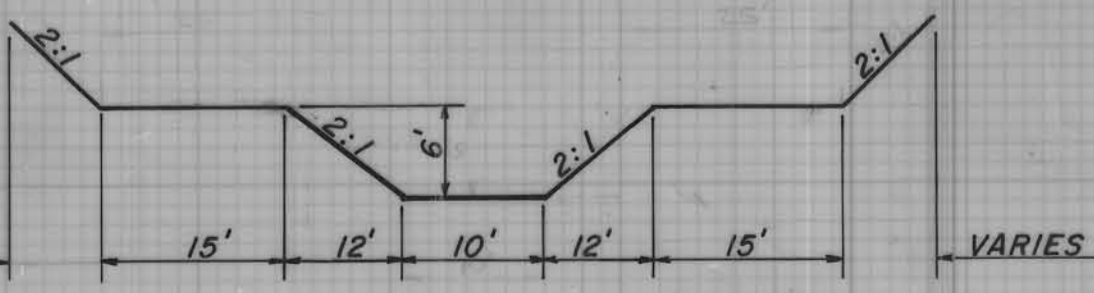
LOCATION:
WEST LINE SECTION 4-85-37
JACKSON TOWNSHIP
OVER BEAMAN CREEK
CRAWFORD COUNTY

HYDRAULIC DATA:
DRAINAGE AREA = 6.70 SQ. MI.
DESIGN DISCHARGE = 3,500 C.F.S.
DESIGN H.W. = 1,261.7
SLOPE = 17.8 FT./MILE
BRIDGE WATERWAY AREA = 470 SQ. FT.
DESIGN VELOCITY = 7.4 F.P.S.
Q(50) DESIGN = 3,500 C.F.S., STAGE = 1,261.0
(200' DOWNSTREAM)
Q(100) = 4,350 C.F.S., STAGE = 1,261.5
(200' DOWNSTREAM)
Q(OVERTOPPING) = NA, STAGE = NA
Q(500) = 6,950 C.F.S., STAGE = 1,262.7
(200' DOWNSTREAM)
EXTREME HIGHWATER, DATE = 1973
(UPSTREAM FROM BRIDGE SITE)
Q(EXTREME) = 3,520 C.F.S., STAGE = 1,262.0

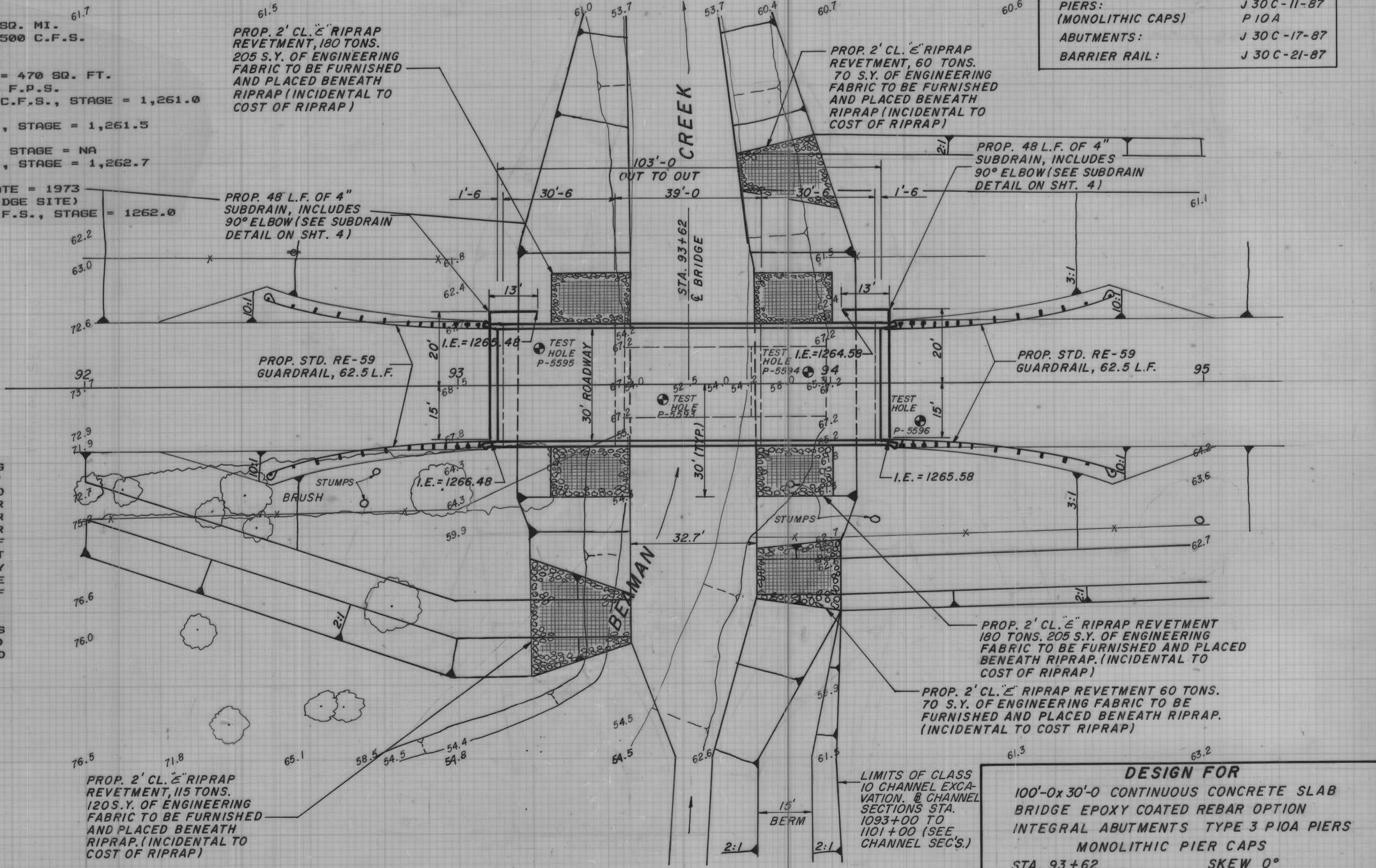
BRIDGE STANDARDS REQUIRED	
SUPERSTRUCTURE:	J 30C-87
(EPOXY COATED REBAR OPTION)	J 30C-3-87
	J 30C-6-87
	J 30C-7-87
	J 30C-9-87
PIERS:	J 30C-11-87
(MONOLITHIC CAPS)	P 10A
ABUTMENTS:	J 30C-17-87
BARRIER RAIL:	J 30C-21-87



GENERAL PLAN
SCALE: 1" = 100'

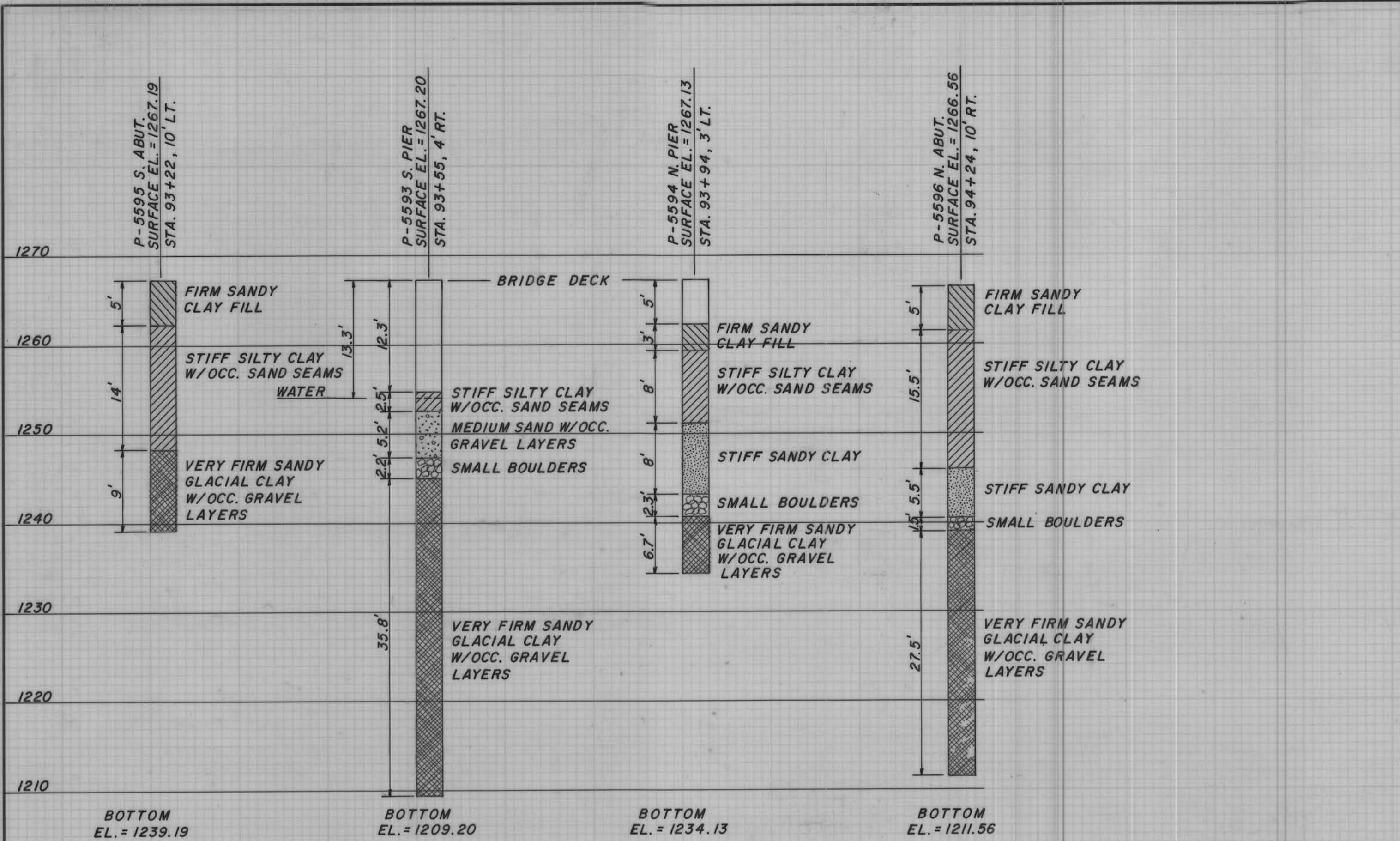


TYPICAL CHANNEL CROSS SECTION FOR CHANNEL CHANGE (SEE CHANNEL SECTIONS)



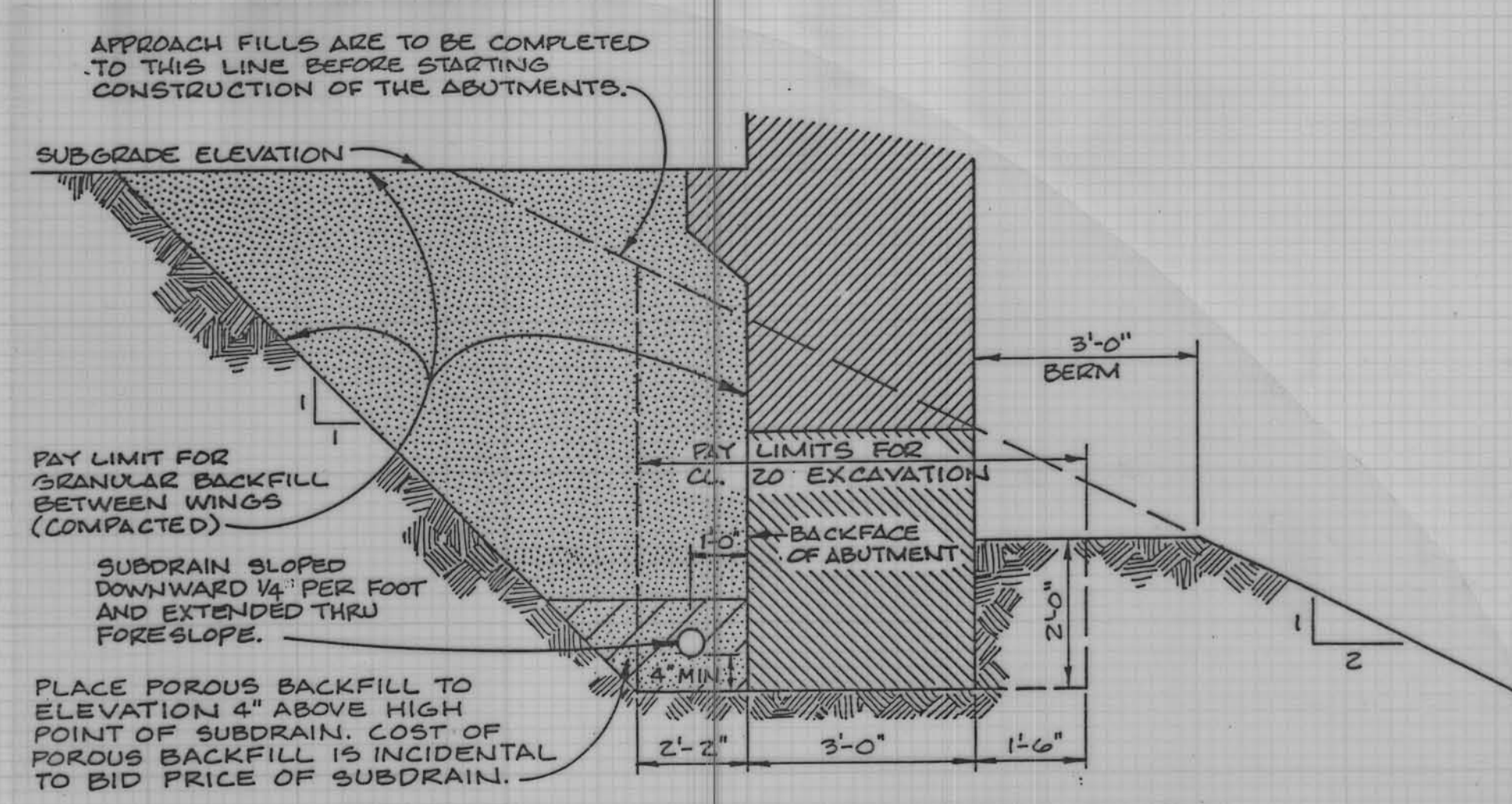
SITUATION PLAN
SCALE: 1" = 20'

DESIGN FOR
100'-0" x 30'-0" CONTINUOUS CONCRETE SLAB
BRIDGE EPOXY COATED REBAR OPTION
INTEGRAL ABUTMENTS TYPE 3 P10A PIERS
MONOLITHIC PIER CAPS
STA. 93+62 SKEW 0°
CRAWFORD COUNTY
DESIGN NO. 5287 FILE NO. 53405
PROJ. NO. FM-24(14)--55-24



SOUNDING DATA

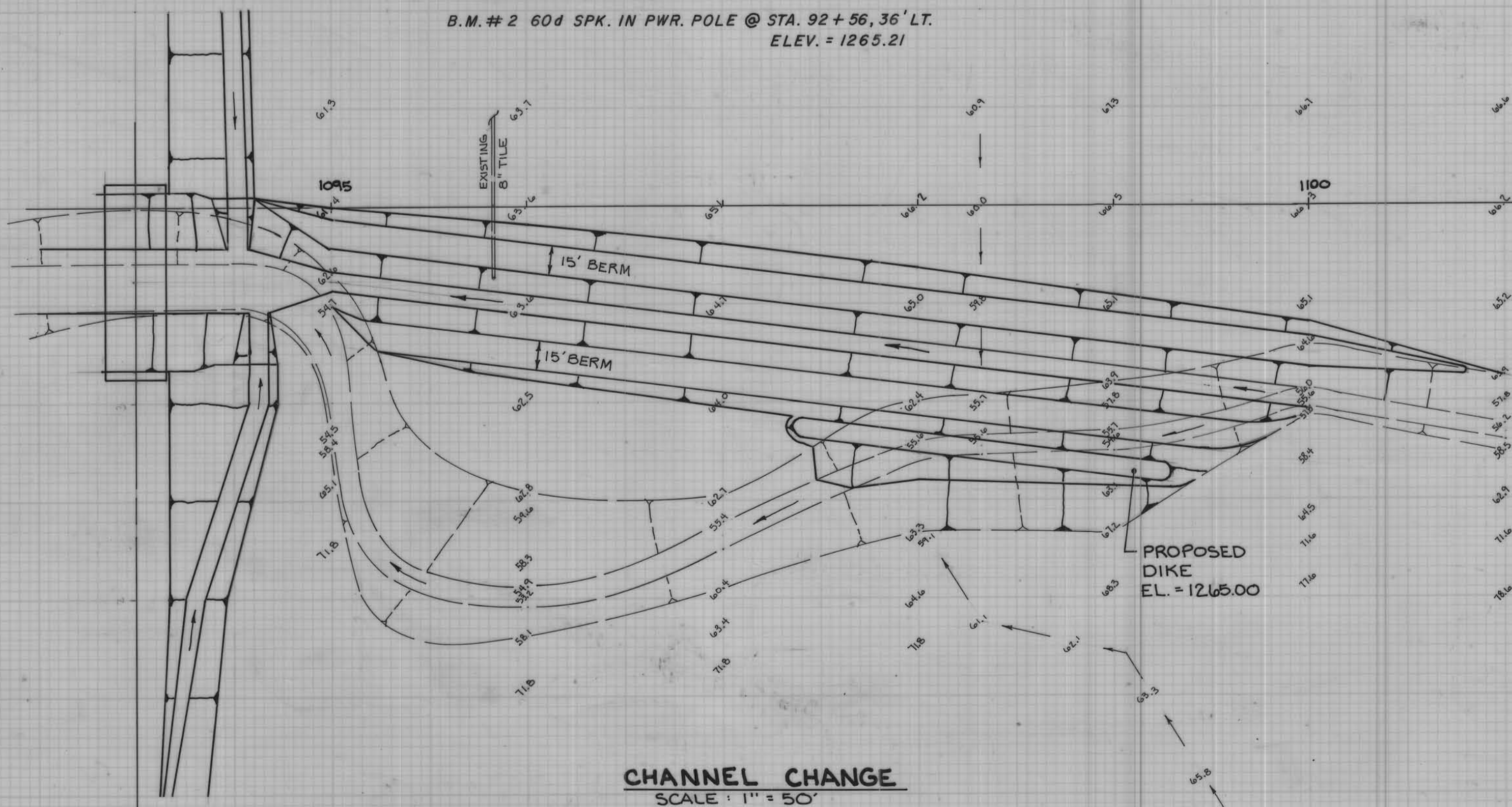
NOTES: THESE SOUNDINGS WERE MADE FOR DESIGN PURPOSES AND ARE NOT GUARANTEED FOR CONSTRUCTION. SOUNDINGS WERE TAKEN ON MAY 23, 1986. B.M. # 2 60' SPK. IN PWR. POLE @ STA. 92+56, 36' LT. ELEV. = 1265.21



SUBDRAIN LAYOUT & BACKFILL DETAIL

"BRIDGE CONTRACTOR IS TO INSTALL SUBDRAINS BEHIND THE ABUTMENTS AS DETAILED. THE SUBDRAINS SHALL MEET THE REQUIREMENTS FOR THE TYPES PERMITTED IN SECTION 4143.010. WHEN THE SUBDRAINS ARE INSTALLED WITH CORRUGATED PE TUBING, THEY ARE TO BE 4" # WITH THE ENDS MADE OF 6' LENGTHS OF CORRUGATED METAL PIPE (CMP) THAT PROTRUDE A MINIMUM THROUGH THE FORESLOPE. THE CONNECTION BETWEEN THE PE TUBING AND THE CMP CAN BE MADE WITH A REDUCER COUPLING OR BY EXTENDING THE PE TUBING INTO THE CMP A MINIMUM OF ONE FOOT AND PACKING THE OPEN SPACE BETWEEN THE PIPES WITH GROUT. A REMOVABLE 1/2" MESH GALVANIZED SCREEN, OR OTHER APPROVED RODENT GUARD, IS TO BE FASTENED TO THE END OF EACH OUTLET PIPE. THE PRICE BID FOR SUBDRAIN IS TO INCLUDE ALL MATERIAL, LABOR AND EXCAVATION NECESSARY FOR THE INSTALLATION OF THE SUBDRAIN."

SEE TABULATION ON SHEET 3 FOR ELEVATIONS AT BOTTOM OF ABUTMENT FOOTINGS & PIER CAPS AT EXTERIOR PILES.

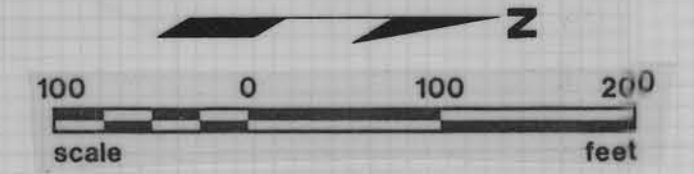


CHANNEL CHANGE
SCALE: 1" = 50'

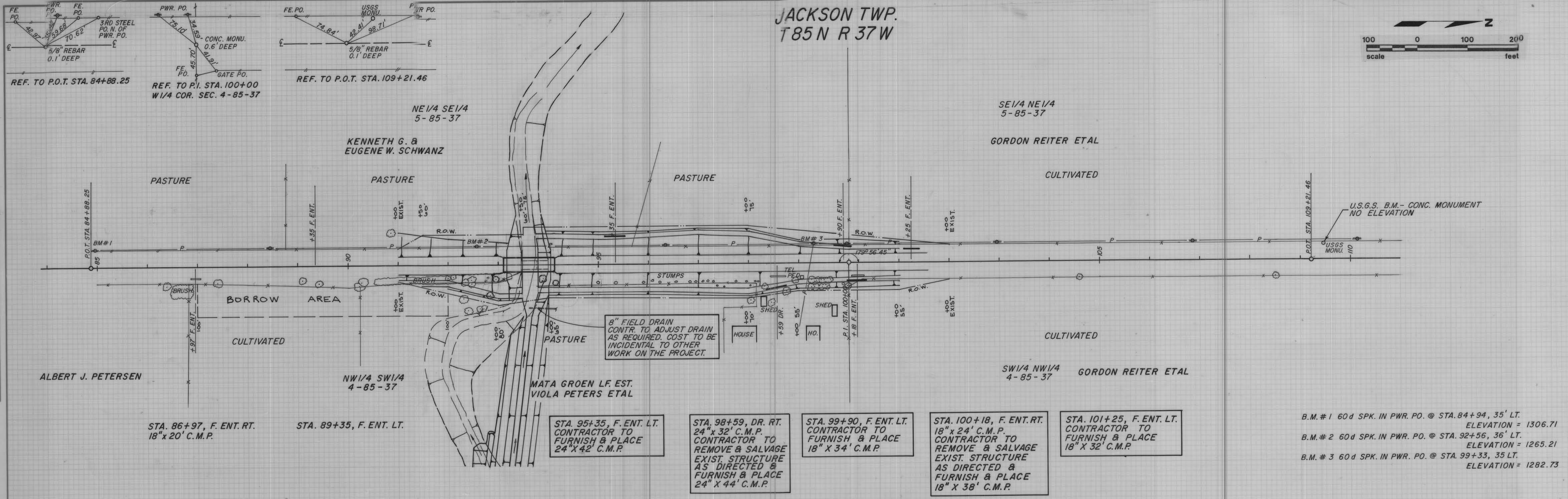
Station	Elevations	
	TOP OF SLAB @ W. GUTTER LINE	TOP OF SLAB @ E. GUTTER LINE
93+12	1270.95	1270.95
93+15.81	1270.90	1270.90
93+19.63	1270.85	1270.85
93+23.44	1270.80	1270.80
93+27.25	1270.75	1270.75
93+31.06	1270.71	1270.71
93+34.88	1270.66	1270.66
93+38.69	1270.62	1270.62
93+42.50	1270.56	1270.56
93+47.38	1270.51	1270.51
93+52.25	1270.47	1270.47
93+57.13	1270.42	1270.42
93+62	1270.38	1270.38
93+66.88	1270.34	1270.34
93+71.75	1270.30	1270.30
93+76.63	1270.27	1270.27
93+81.50	1270.24	1270.24
93+85.31	1270.22	1270.22
93+89.13	1270.19	1270.19
93+92.94	1270.17	1270.17
93+96.75	1270.15	1270.15
94+00.56	1270.14	1270.14
94+04.38	1270.12	1270.12
94+08.19	1270.11	1270.11
94+12		

TOP OF SLAB ELEVATIONS
SCALE: 1" = 10'

JACKSON TWP.
T85 N R 37 W

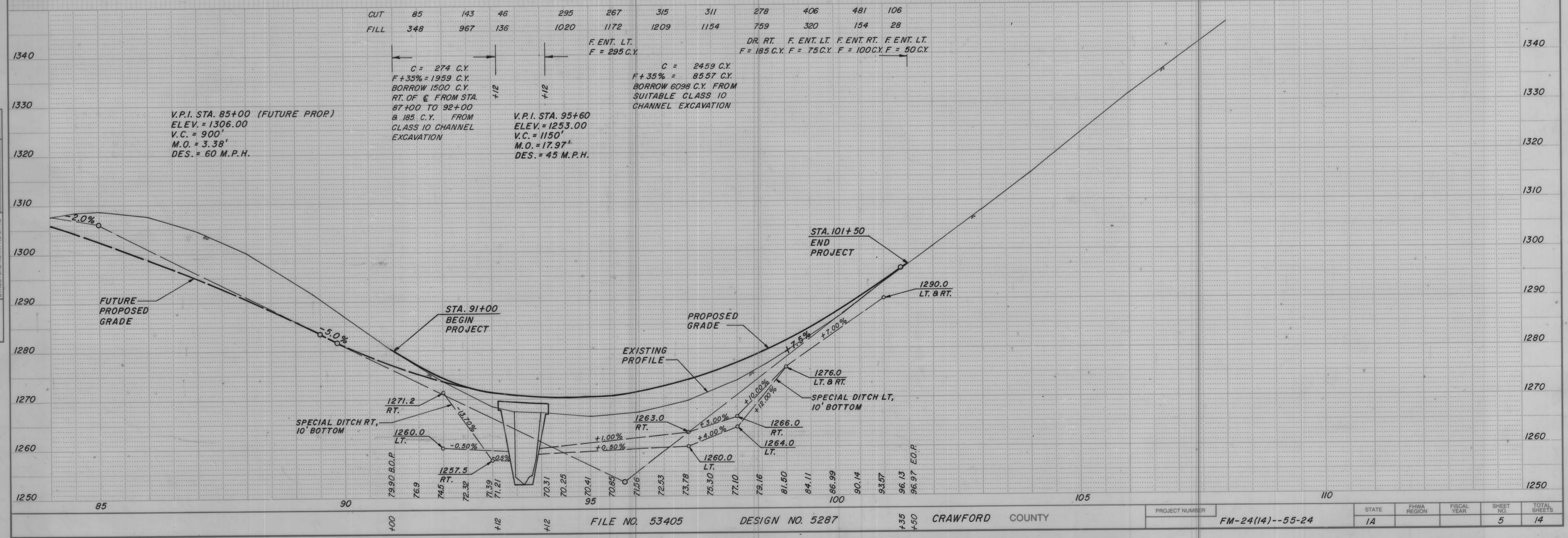


DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED CHECKED	
RT. OF WAY CHECKED	
NOTE BOOK NO.	
PLAN	



- STA. 86+97, F. ENT. RT. 18" x 20' C.M.P.
- STA. 89+35, F. ENT. LT.
- STA. 95+35, F. ENT. LT. CONTRACTOR TO FURNISH & PLACE 24" x 42' C.M.P.
- STA. 98+59, DR. RT. 24" x 32' C.M.P. CONTRACTOR TO REMOVE & SALVAGE EXIST. STRUCTURE AS DIRECTED & FURNISH & PLACE 24" x 44' C.M.P.
- STA. 99+90, F. ENT. LT. CONTRACTOR TO FURNISH & PLACE 18" x 34' C.M.P.
- STA. 100+18, F. ENT. RT. 18" x 24' C.M.P. CONTRACTOR TO REMOVE & SALVAGE EXIST. STRUCTURE AS DIRECTED & FURNISH & PLACE 18" x 32' C.M.P.
- STA. 101+25, F. ENT. LT. CONTRACTOR TO FURNISH & PLACE 18" x 32' C.M.P.
- B.M.#1 60d SPK. IN PWR. PO. @ STA. 84+94, 35' LT. ELEVATION = 1306.71
- B.M.#2 60d SPK. IN PWR. PO. @ STA. 92+56, 36' LT. ELEVATION = 1265.21
- B.M.#3 60d SPK. IN PWR. PO. @ STA. 99+33, 35' LT. ELEVATION = 1282.73

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED CHECKED	
BM NOTED	
STRUCTURE NOTATIONS CHKD	
PROFILE	



PROJECT NUMBER	STATE	FHWA REGION	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
FILE NO. 53405 DESIGN NO. 5287	1A			5	14

CRAWFORD COUNTY

FM-24(14)--55-24