RT. FA1-80

SEC. 06-2HB-1

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	06 -2HB-1	BUREAU	40	1
B. P. R. REG. NO. 4	ILLINOIS	PROJECT	I-80-1(46)45	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2&3	TYPICAL SECTIONS; S.B.I. ROUTE 88 S.B.I. ROUTE 88 DETOUR ROAD F.A.I. ROUTE 80
4	GENERAL NOTES & SUMMARY OF QUANTITIES
4-A	SCHEDULE OF CLASS X CONC., REINF. BARS CULVERTS & STORM SEWERS.
5	PLAN AND PROFILE SHEET - S.B.I. ROUTE 88 STAS. 1418+00 - 1448+00
6	PLAN AND PROFILE SHEET - S.B.I. ROUTE 88 DETOUR ROAD STAS. 0+00 - 28+00
7	PLAN AND PROFILE SHEET - F.A.I. ROUTE 80 STAS. 455+00 - 480+00
8 - 22	STRUCTURE PLANS SEC. 06-2HB-1 STA. 475+09.54 *(SHEET 21 DELETED)*
23 - 28	CROSS SECTIONS - S.B.I. ROUTE 88 STAS. 1415+00 - 1446+35
29 - 30	CROSS SECTIONS - S.B.I. ROUTE 88, DETOUR ROAD STAS. 0+00 - 28+00
31 - 32	CROSS SECTIONS - F.A.I. ROUTE 80 STAS. 465+00 - 476+00
33	TYPICAL SECTION OF PROPERTY ENTRANCE SPECIAL DESIGN FOR WIDTH TRANSITION MANHOLES, SPECIAL
34	STD. 1516S FRAMES AND GRATES STD. 1744-1 RIGHT OF WAY MARKERS STD. 2115-1 PAVEMENT FABRIC
35	STD. 1909-3 BRIDGE APPROACHES
36	STD. 1776R MAIL BOX TURNOUT STD. 1971-3 "ROAD UNDER CONSTRUCTION" SIGN STD. 2113 NAME PLATES
37	STD. 1972-1 DESIGN FOR BARRICADE STD. 2114 SLOW AND STOP SIGN STD. 1687-3 STEEL PLATE BEAM GUARD RAIL
38	STD. 2102 HEADWALLS FOR MULTIPLE PIPE CULVERTS 15" - 36"
39	STD. 2143 WIDTH TRANSITION STD. 2155-2 SIGN FOR INTERSTATE SYSTEM PROJECT STD. 2068R 24' P.C. CONC. PAVEMENT WITH 10' SHOULDER
40	STD. 1786-3 LONGITUDINAL METAL JOINT

SCALES

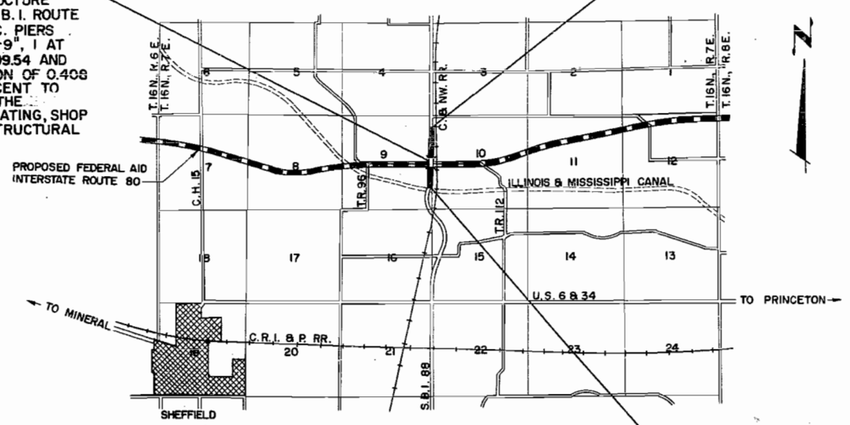
PLAN	0'	100'	200'
PROFILE HORIZONAL	0'	100'	200'
PROFILE VERTICAL	0'	10'	20'
CROSS SECTIONS HOR. & VERT.	0'	10'	20'

F. A. I. ROUTE 80 SECTION 06-2HB-1
F. A. PROJECT I-80-1(46)45
BUREAU COUNTY

LOCATION OF SECTION INDICATED THUS:—

PROJECT I-80-1(46)45 - SECTION 06-2HB-1 INCLUDES THE CONSTRUCTION OF A 4-SPAN WF BEAM GRADE SEPARATION STRUCTURE (CARRYING THE RELOCATION OF S.B.I. ROUTE 88 OVER F.A.I. ROUTE 80). ON R.C. PIERS AND ABUTMENTS, SPANS 2 AT 86'-9", 1 AT 50'-6", 1 AT 42'-6" AT STA. 475+09.54 AND THE RELOCATION & RECONSTRUCTION OF 0.408 MILES OF S.B.I. ROUTE 88 ADJACENT TO THE PROPOSED STRUCTURE, WITH THE EXCEPTION OF FURNISHING, FABRICATING, SHOP PAINTING AND DELIVERY OF THE STRUCTURAL STEEL.

SECTION 06-2HB-1 BEGINS
STA. 1420+42.14



LAYOUT

APPROXIMATE SCALE 0 1 2 MILES

SECTION 06-2HB-1 ENDS
STA. 1444+64.00

NET LENGTH OF SECTION = 2421.86 FT. = 0.459 MILES
NET LENGTH OF PROJECT = 0.00 FT. = 0.000 MILES

W. E. Baumann 9-14-62

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

SUBMITTED 9-10 1962
M. M. Meeker
DISTRICT ENGINEER

EXAMINED September 24 1962
A. V. Van Ausdall
ENGINEER OF ROAD PLANS & CONTRACTS

PASSED September 24 1962
ENGINEER OF DESIGN

APPROVED September 24 1962
M. W. Carter
CHIEF HIGHWAY ENGINEER

APPROVED September 24 1962
W. E. Boyer Jr.
DIRECTOR

PLANS PREPARED BY
MISSMAN, STANLEY, FARMER & ASSOCIATES
CIVIL ENGINEERS
ROCK ISLAND, ILLINOIS
E. E. Missman 4/30/62

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER
DATE

HIGHWAY CLASSIFICATION
S.B.I. ROUTE 88 - 550 - T - 70
F.A.I. ROUTE 80 - 1976 - T - 70

JOB NO. 22675

FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	06 -2HB-1	BUREAU	1	1
F.P.R. REG. NO. 4	ILLINOIS	PROJECT I-80-1(46)45		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

SCALES

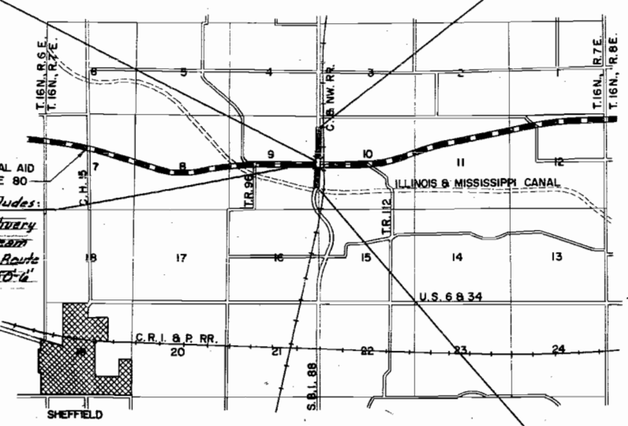
PLAN	0'	100'	200'
PROFILE HORIZONAL	0'	100'	200'
PROFILE VERTICAL	0'	10'	20'
CROSS SECTIONS HOR. & VERT.	0'	10'	20'

F.A.I. ROUTE 80 SECTION 06-2HB-1,06-2HF-1
F.A. PROJECT I-80-1(46)45
BUREAU COUNTY

PROJECT I-80-1(46)45 - SECTION 06-2HB-1 INCLUDES THE CONSTRUCTION OF A 4-SPAN WF BEAM GRADE SEPARATION STRUCTURE (CARRYING THE RELOCATION OF S.B.I. ROUTE 88 OVER F.A.I. ROUTE 80), ON R.C. PIERS AND ABUTMENTS, SPANS 2 AT 86'-9", 1 AT 50'-6", 1 AT 42'-6" AT STA. 475+09.54 AND THE RELOCATION & RECONSTRUCTION OF 0.408 MILES OF S.B.I. ROUTE 88 ADJACENT TO THE PROPOSED STRUCTURE, WITH THE EXCEPTION OF FURNISHING, FABRICATING, SHOP PAINTING AND DELIVERY OF THE STRUCTURAL STEEL.

Project I-80-1(46)45 - Section 06-2HF-1 Includes: Furnishing, Fabricating, Shop Painting and Delivery of the Structural Steel for a 4-Span WF-Beam Grade Separation Structure (Carrying SBI Route 88 over FAI Route 80), Spans 2 @ 86'-9", 1 @ 50'-6" and 1 @ 42'-6" at Station 475+09.54.

SECTION 06-2HB-1 BEGINS
STA. 1420+42.14



LAYOUT

APPROXIMATE SCALE 0 1 2 MILES

SECTION 06-2HB-1 ENDS
STA. 1444+64.00

NET LENGTH OF SECTION 06-2HB-1 = 2421.86 FT. = 0.459 MI.
NET LENGTH OF PROJECT I-80-1(46)45 = 0.00 FT. = 0.00 MI.

Special Cover Sheet Prepared for Bureau of Public Roads.

W.E. Baumann 5-14-62

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

SUBMITTED 9-10 19 62
M. M. Menke
DISTRICT ENGINEER

EXAMINED September 24, 19 62
ENGINEER OF ROAD PLANS & CONTRACTS

PASSED September 24, 19 62
ENGINEER OF DESIGN

APPROVED September 24 19 62
CHIEF HIGHWAY ENGINEER

APPROVED September 24, 19 62
DIRECTOR

PLANS PREPARED BY
MISSMAN, STANLEY, FARMER & ASSOCIATES
CIVIL ENGINEERS
ROCK ISLAND, ILLINOIS
E. E. Missman 4/30/62

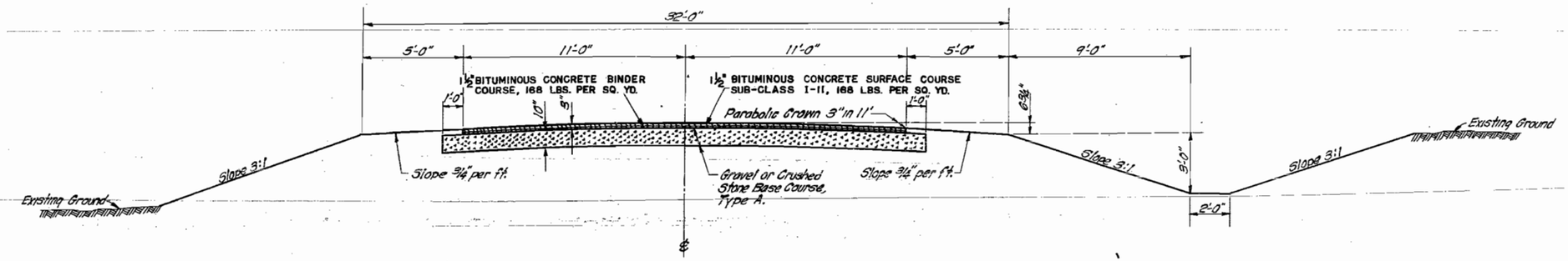
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE

HIGHWAY CLASSIFICATION
S.B.I. ROUTE 88 - 550 - T - 70
F.A.I. ROUTE 80 - 1976 - T - 70

F.A.I. Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2HB-1	BUREAU	40	2
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

TYPICAL SECTION THRU PROPOSED DETOUR ROAD

(STA. 0+00.- STA. 28+48.37 (S.B.I. RTE. 88)



FILL SECTION
Construct as shown on Station Cross Sections

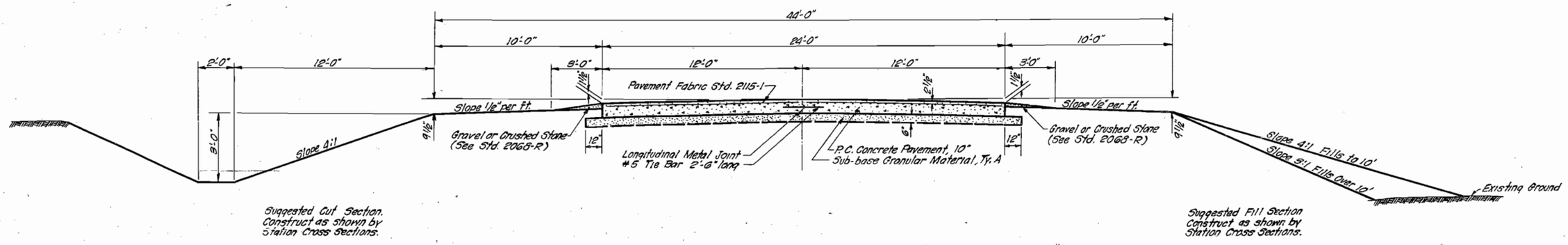
CUT SECTION
Construct as shown on Station Cross Sections

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE COURSE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

Federal Aid Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2HB-1	BUREAU		2
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

TYPICAL SECTION THRU PROPOSED IMPROVEMENT

(S.B.I. ROUTE 88 - STAS. 1420+42.14 - 1444+64.00)



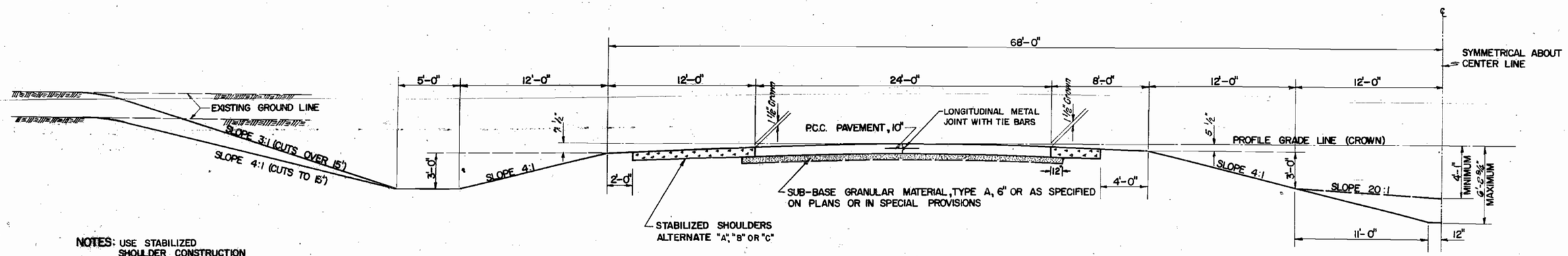
Suggested Cut Section.
Construct as shown by Station Cross Sections.

Suggested Fill Section
Construct as shown by Station Cross Sections.

THE NOMINAL THICKNESS FOR SUB-BASE GRANULAR MATERIAL AND STABILIZED SHOULDERS ALTERNATES "A", "B" OR "C" BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESSES OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

F.A.I. Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	08-2HB-1	BUREAU	40	3
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

TYPICAL SECTIONS THRU PROPOSED IMPROVEMENT (F.A.I. ROUTE 80)



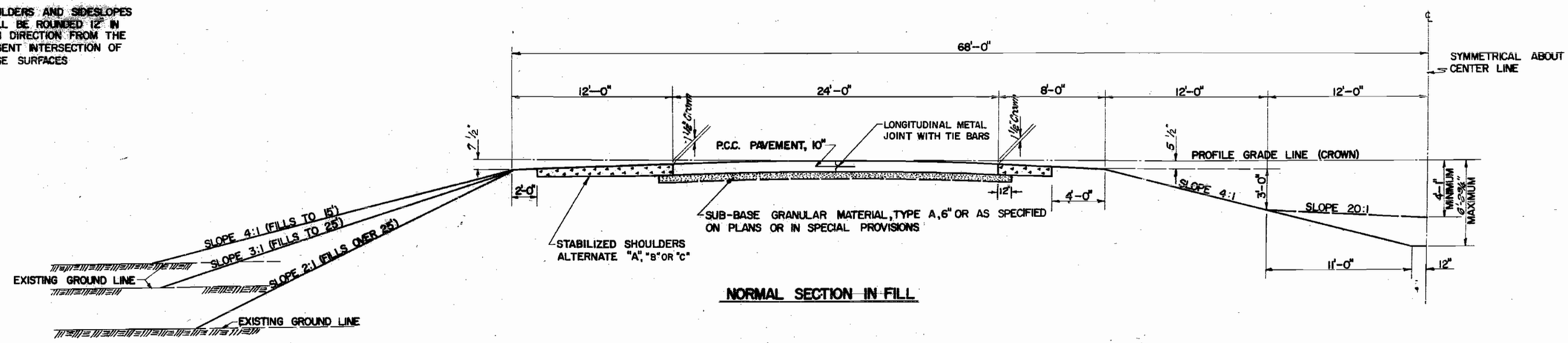
NORMAL SECTION IN CUT

NOTES: USE STABILIZED SHOULDER CONSTRUCTION (RURAL AREAS)

SEE STANDARD 2068R FOR JOINT DETAILS

SEE STANDARD 2115-1 FOR PAVEMENT FABRIC DETAILS

SHOULDERS AND SIDESLOPES SHALL BE ROUNDED 12" IN EACH DIRECTION FROM THE TANGENT INTERSECTION OF THESE SURFACES



NORMAL SECTION IN FILL

FOR INFORMATION ONLY..... TO BE CONSTRUCTED BY OTHERS

THE NOMINAL THICKNESSES FOR SUB-BASE GRANULAR MATERIAL AND STABILIZED SHOULDERS ALTERNATE "A", "B" OR "C" BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESSES OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90% PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

SUMMARY OF QUANTITIES

F.A.I. Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2HB-1	BUREAU		4
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

QUANTITY IN STRUCTURE SEC. 06-2HB-1 STA. 1432+62.61	QUANTITY IN ROADWAY SEC. 06-2HB-1	TOTAL QUANTITY SEC. 06-2HB-1	UNIT	ITEM	CODE NUMBER
	110	110	IN. DIA.	TREE REMOVAL (6 TO 15 INCH DIAMETER)	010001
	188	188	IN. DIA.	TREE REMOVAL (OVER 15 INCH DIAMETER)	010002
	~~10.3~~	~~10.3~~	~~UNIT~~	~~HEDGE REMOVAL~~	~~010006~~
	99,381	99,381	CU. YD.	EARTH EXCAVATION	011001
	2,124	2,124	TON	SUB-BASE - - GRANULAR MATERIAL, TYPE A	024001
	4,090	4,090	TON	GRAVEL OR CRUSHED STONE BASE COURSE, TYPE A	029001
	2,660	2,660	GALLON	BITUMINOUS MATERIALS (PRIME COAT)	046001
	543	543	TON	BITUMINOUS CONCRETE BINDER COURSE	046006
	549	549	TON	BITUMINOUS CONCRETE SURFACE COURSE, SUB-CLASS I-11, 1 1/2" THICK	046007
	5,[illegible]	5,[illegible]	SQ. YD.	PORTLAND CEMENT CONCRETE PAVEMENT 10"	0480[illegible]
	222	222	SQ. YD.	PORTLAND CEMENT CONCRETE PAVEMENT 16 1/2 - 10 1/2 - 16 1/2	048011
	2	2	UNIT	REMOVING AND REPLACING CURING COVERING	048018
	5,[illegible]	5,[illegible]	SQ. YD.	PAVEMENT FABRIC	048019
185		185	CU. YD.	CLASS A EXCAVATION FOR STRUCTURES	050001
548.6	3.4	552.0	CU. YD.	CLASS X CONCRETE	052003
	3.8	3.8	CU. YD.	CLASS X CONCRETE (HEADWALLS)	052016
1,130	5878	6,948	SQ. YD.	PROTECTIVE COAT	052021
304,840		304,840	POUND	ERECTING STRUCTURAL STEEL	054003
536		536	LIN. FT.	FURNISHING AND ERECTING METAL HANDRAIL	055001
	226	226	LIN. FT.	PIPE CULVERT TYPE 2A, 30"	058032
	166	166	LIN. FT.	PIPE CULVERT, TYPE 1 15"	058199
	56	56	LIN. FT.	PIPE CULVERT, TYPE 1 36"	058206
	138	138	LIN. FT.	PIPE CULVERT, TYPE 2 15"	058222
91,940	15,020	106,960	POUND	REINFORCEMENT BARS	059001
1,854		1,854	LIN. FT.	FURNISHING CREOSOTED PILES 20.1 - 38 FEET	060005
1		1	EACH	TEST PILE TIMBER	060007
1,854		1,854	LIN. FT.	DRIVING TIMBER PILES	060008
1,000		1,000	LIN. FT.	DRIVING CONCRETE PILES	060043
1,000		1,000	LIN. FT.	FURNISHING CONCRETE PILES	060044
1		1	EACH	TEST PILE CONCRETE	060047
2		2	EACH	NAME PLATES	061001
	270	270	LIN. FT.	STORM SEWER, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS II 10"	066209
	2	2	EACH	MANHOLES, SPECIAL, 4 FT. DIAMETER	075207
	2,510	2,510	SQ. YD.	PAVEMENT REMOVAL	082001
	978	978	LIN. FT.	GUTTER REMOVAL	082004
479		479	SQ. YD.	SLOPE WALL 4 INCH	083002
	450	450	LIN. FT.	STEEL PLATE BEAM GUARD RAIL	094001
	258	258	LIN. FT.	REMOVING AND RESETTING GUARD RAIL	094005
	516	516	LIN. FT.	WOOD GUARD RAIL REMOVAL	098002
	120	120	CU. YD.	SALVAGED AGGREGATE	101006
	1,373	1,373	CU. YD.	STOCK-PILING SALVAGED AGGREGATE	101007
	10	10	EACH	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	104001
	4.1	4.1	ACRE	TEMPORARY SEEDING	110001
	4.1	4.1	ACRE	COMPLETE SEEDING	110004
	0.7	0.7	T.N	FERTILIZER NUTRIENTS	110005
	20	20	TON	STRAW FOR ASPHALT-COATED MULCH	111002
	1,700	1,700	GAL.	EMULSIFIED ASPHALT	111003
	1,972	1,972	SQ. YD.	SODDING	112001
	5	5	UNIT	SUPPLEMENTAL WATERING	112002
	~~[illegible]~~	~~[illegible]~~	~~TON~~	~~INCIDENTAL BITUMINOUS SURFACING~~	~~Z001[illegible]2~~
	200	200	LIN. FT.	EXPLORATION TRENCH 52" DEPTH	Z01002

Federal Aid Route No.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO
80	[illegible]B-1	BUREAU	40	4
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

GENERAL NOTES

ENTIRE SECTION INSPECTED AND APPROVED AS TO POLICY.
DATE: 9-10-1962
DISTRICT ENGINEER: M. M. Metzler

CONSTRUCT PAVEMENT STD. 2068-R, 24'-0" P.C.CONCRETE PAVEMENT 10", 44'-0" SHOULDER TO SHOULDER STA. 1420+42.14 TO STA. 1430+81.92 AND STA. 1434+35.47 TO STA. 1444+64.00

AT THE LOCATIONS WHERE EXCAVATION QUANTITIES ON THE PLANS ARE INDICATED AS HAVING BEEN ESTIMATED, THE RESIDENT ENGINEER WILL OBTAIN ORIGINAL AND FINAL CROSS SECTIONS TO DETERMINE PAY QUANTITIES.

INSTALL CONTRACTION JOINTS IN THE PAVEMENT AT 100 FOOT CENTERS EXCEPT AS OTHERWISE NOTED ON THE PLANS.

EXCAVATION IN OLD GRAVEL OR MACADAM ROAD TO BE PAID FOR AS "EARTH EXCAVATION".

CONTRACTOR TO REMOVE ALL STRUCTURES WITHIN THE RIGHT OF WAY WITHOUT ADDITIONAL COMPENSATION, UNLESS EXTRA PAY IS SPECIFICALLY NOTED.

SEE CROSS-SECTIONS FOR SPECIAL DITCHES AND BACKSLOPES. THE RESIDENT ENGINEER SHALL VERIFY ALL SPECIAL DITCH GRADES BEFORE THEIR CONSTRUCTION.

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS UNTIL AN OWNER OR AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE EARTH REMOVED IN SHAPING THE SUBGRADE OF THE PAVEMENT AND NOT NEEDED TO COMPLETE THE EARTH SHOULDERS IMMEDIATELY ADJACENT THERETO, SHALL BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER, WITHOUT ADDITIONAL COMPENSATION, IT BEING UNDERSTOOD THAT THE COST OF PERFORMING SUCH WORK IS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PARTICULAR TYPE OF EXCAVATION.

THE COST OF MAKING SEWER CONNECTIONS TO EXISTING DRAINAGE STRUCTURES AS INDICATED, SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES FOR "STORM SEWERS".

CLEAN OUT ALL AR CULVERTS AND STREAM FLOWS TO THE RIGHT OF WAY LINES ON THE ENTIRE SECTION. ~~COST TO BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "EARTH EXCAVATION".~~ NO EARTH EXCAVATION QUANTITIES TO BE PAID FOR AT THE VARIOUS LOCATIONS INVOLVED UNLESS NOTED IN THE PLANS.

WHERE EXCESS EARTH IS WASTED ON FIELDS, YARDS, BARNYARDS, AND OTHER PRIVATE PROPERTY THE CONTRACTOR SHALL PLACE THE MATERIAL AS DIRECTED BY THE ENGINEER AND IN SUCH A MANNER AS TO DRAIN PROPERLY. IT SHALL BE LEVELED OFF WITH A BLADE OR OTHER MACHINERY AND LEFT IN A NEAT AND PRESENTABLE CONDITION.

PLACE ADDITIONAL RIGHT OF WAY MARKERS THROUGHOUT THE SECTION AS DIRECTED BY THE ENGINEER. ESTIMATE: 10 EACH "FURNISHING AND ERECTING RIGHT OF WAY MARKERS".

THE CONTRACTOR SHALL REMOVE ALL ENTRANCE CULVERTS, WHICH ARE NOT TO BE LEFT IN PLACE, IN CONDITION FOR RE-USE. THEY SHALL BE CLEANED AND STORED ALONG THE RIGHT OF WAY AS DIRECTED. IN NO CASE SHALL THEY BE ROUGHLY HANDLED OR SHOVED BY HEAVY MACHINERY. UNUSABLE MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE. COST OF THE ABOVE WORK TO BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "EARTH EXCAVATION".

THE LIMITS OF SEEDING SHALL INCLUDE ALL UNSURFACED AREAS WITHIN THE RIGHT OF WAY LINES. CONTRACTOR TO MULCH ALL AREAS TO BE SEEDED WITH ASPHALT COATED MULCH, ESTIMATE: 20 TONS "STRAW FOR ASPHALT COATED MULCH" - ESTIMATE: 1,700 GALS. "EMULSIFIED ASPHALT".

GRAVEL OR CRUSHED STONE SHOULDERS, TYPE B SHALL BE CONSTRUCTED. ESTIMATE: 120 CU. YD. "SALVAGED AGGREGATE".

A BITUMINOUS CONCRETE SURFACE SHALL BE APPLIED TO THE GRAVEL OR CRUSHED STONE BASE COURSE, TYPE A ON S.B.I. ROUTE 88 DETOUR ROAD. ESTIMATE: 543 TONS "BITUMINOUS CONCRETE BINDER COURSE", 547 TONS "BITUMINOUS CONCRETE SURFACE COURSE" SUB-CLASS I-11, 1 1/2" THICK. ESTIMATE: 2,660 GALS. "BITUMINOUS MATERIALS (PRIME COAT)".

BARRICADES SHALL BE ERECTED IN ACCORDANCE WITH STANDARD NO. 1972-1 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL FERTILIZE AND WATER ALL AREAS TO BE SODDED. ESTIMATE; 5 UNIT "SUPPLEMENTAL WATERING".

SIDE SLOPES, INCLUDING THE EXISTING FILL SLOPES, ADJACENT TO EACH END OF BRIDGE STRUCTURES THAT ARE STEEPER THAN 3:1 SHALL BE SODDED IN ACCORDANCE WITH SECTION 112 OF THE STANDARD SPECIFICATIONS.

THE QUANTITY OF "SODDING" SHOWN IS INTENDED AS AN ESTIMATED ITEM ONLY. THE FINAL QUANTITY WILL BE DETERMINED IN THE FIELD, BY THE ENGINEER, AFTER FINAL GRADING IS COMPLETED AND CRITICAL AREAS ARE OBSERVED.

ALL POINTS OF CURVE, POINTS OF TANGENT, POINTS OF INTERSECTION, POINTS ON TANGENT AND OTHER SURVEY POINTS SHOWN ON THE PLAN AND PROFILE ARE ONE-HALF INCH SQUARE STEEL RODS UNLESS OTHERWISE INDICATED. POINTS SUBJECT TO THE POSSIBILITY OF LOSS DUE TO FARMING OPERATIONS WERE SET 8 TO 10 INCHES BELOW EXISTING GROUND.

TWO (2) SIGNS CONFORMING TO STANDARD 2153-2 SHALL BE ERECTED AT LOCATIONS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL HOUSES, SHEDS, BUILDINGS OR OTHER STRUCTURES WITHIN THE RIGHT OF WAY UNLESS THEY ARE SPECIFICALLY NOTED TO BE SAVED OR TO BE REMOVED BY OTHERS. STRUCTURES SO REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL NOT BE PAID FOR AS A CONTRACT ITEM AS THE SALVAGE VALUE OF THE BUILDINGS SHALL BE CONSIDERED PAYMENT IN FULL FOR THE WORK PERFORMED. THIS WORK SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ANY PORTION OF A BUILDING OR ITS FOUNDATION THAT MAY EXTEND OUTSIDE THE RIGHT OF WAY AND BACKFILLING, LANDSCAPING AND SEEDING THE AREA REGARDLESS OF ITS LOCATION.

FOUNDATIONS, WALLS, STEPS, WELLS OR OTHER UNDERGROUND STRUCTURES OF RESIDENCES, BUSINESS ESTABLISHMENTS, OR FARM UNITS ORIGINALLY LOCATED ON THE RIGHT OF WAY SHALL HAVE THE CONCRETE OR MASONRY REMOVED BY THE CONTRACTOR TO AN ELEVATION 12 INCHES BELOW THE SUBGRADE OR FINAL GROUND LINE.

BASEMENTS OR WELLS SHALL BE FILLED WITH EARTH UNLESS A PORTION OF THE STRUCTURE IS WITHIN THE ROADBED, IN WHICH CASE THE STRUCTURE SHALL BE FILLED IN ACCORDANCE WITH ARTICLES 19.2 AND 19.3 OF THE STANDARD SPECIFICATIONS. THE CONCRETE OR MASONRY FLOOR OF ANY BASEMENT TO BE FILLED SHALL BE BROKEN OR PERFORATED AS DIRECTED BY THE ENGINEER, TO ALLOW SEEPAGE.

THE COST OF REMOVING AND DISPOSING OF ANY CONCRETE OR MASONRY AND FILLING UNDERGROUND STRUCTURES AS DESCRIBED ABOVE SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT UNLESS SPECIFICALLY ACCOUNTED FOR AS A PAY ITEM ON THE PLANS.

IF A BASEMENT LOCATED UNDER THE ROADBED IS PRESENTLY FILLED WITH MATERIAL UNSUITABLE IN THE OPINION OF THE ENGINEER, IT SHALL BE REMOVED AND PAID FOR AS "EARTH EXCAVATION" AND FILLED AS DESCRIBED ABOVE.

THE CONTRACTOR SHALL APPLY PROTECTIVE COAT ———— WHERE REQUIRED BY THE ENGINEER.
EST. 6,948 SQ. YDS. PROTECTIVE COAT

BEFORE REMOVING EXISTING FENCE FROM AN AREA THAT CONTAINS LIVESTOCK, THE CONTRACTOR SHALL ERECT, AT LOCATIONS DESIGNATED BY THE ENGINEER, A TEMPORARY FENCE OR WIRE MEETING THE APPROVAL OF THE ENGINEER. THE COST OF ERECTING ANY TEMPORARY FENCING WILL NOT BE PAID FOR AS A SEPARATE ITEM BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

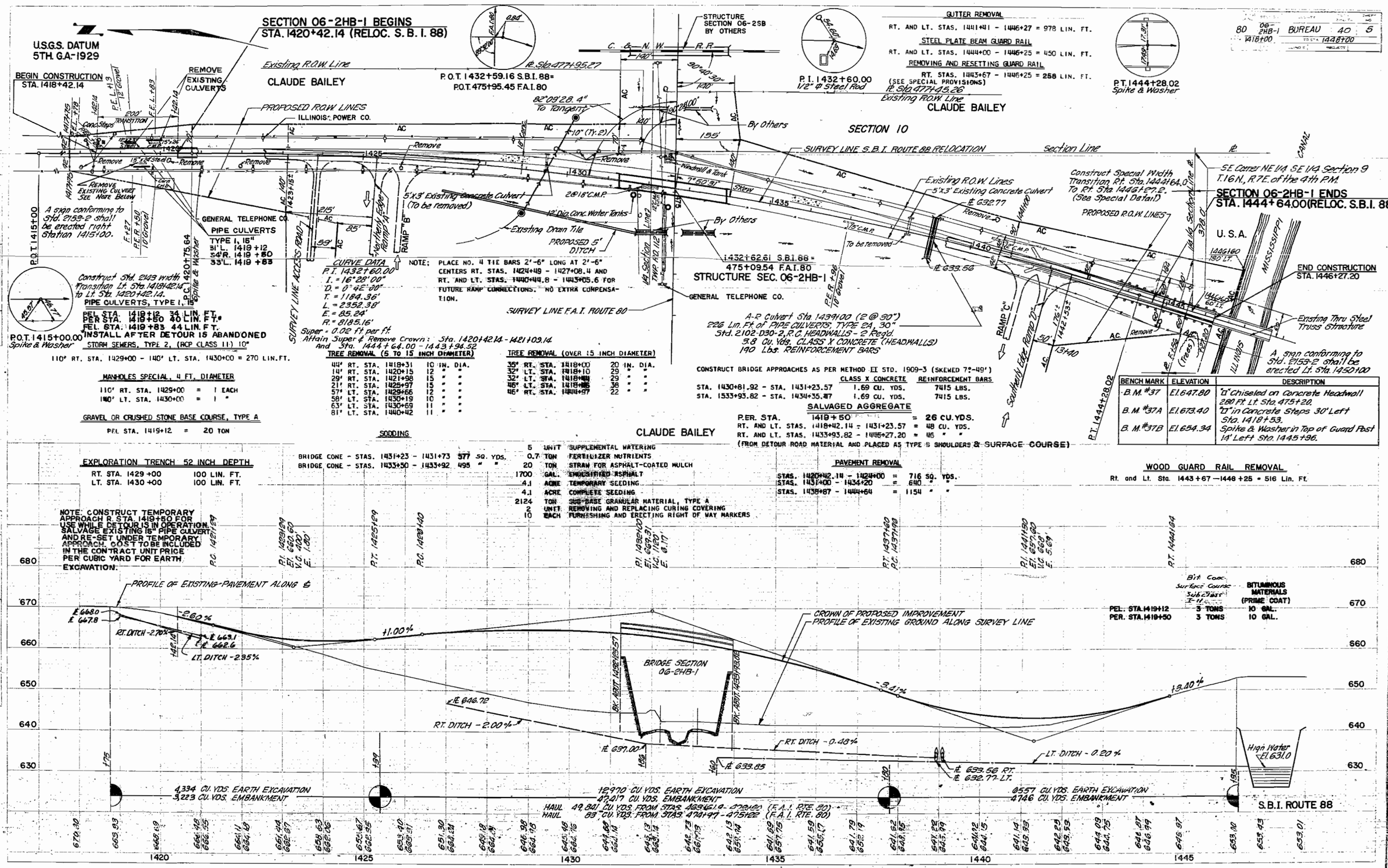
WHEREVER IN THESE PLANS REFERENCE IS MADE TO THE "STANDARD SPECIFICATIONS", IT IS UNDERSTOOD TO INCLUDE THE "SUPPLEMENTAL SPECIFICATIONS, EFFECTIVE APRIL 2, 1962".

SBI ROUTE 88 SEC. 06-2HB-1
F. A. ROUTE 80 F. A. PROJ. I-80-1(46)48
BUREAU COUNTY
DISTRICT NO. 2 DIXON

CLASS X CONCRETE, REINFORCEMENT BARS, CULVERT & STORM SEWER SCHEDULE

STATION NO.	CLASS X CONC. CU. YD.	CLASS X CONC HDWL CU. YD.	REINFORCE. BARS LBS.	PIPE CULVERTS TYPE 1 15"	TYPE 1 36"	TYPE 2 15"	TYPE 2	TYPE 2A 30"		STORM SEWERS TYPE 2 R.C.P. 10"					
L 1419+12				34'											
R 1419+50				40'											
L 1419+83				44'											
L 1430+00										270'					
℄ 1430+81.92 -															
1431+23.57 R.C. CAP	1.7		7415												
℄ 1432+62.61 BRIDGE	548.6		92070												
℄ 1433+93.82 -															
1434+35.47 R.C. CAP	1.7		7415												
A.R. 1439+00		3.8	190					226'							
DETOUR ROAD:															
A.R. 13+00					56'										
A.R. 16+00						138'									
A.R. 23+00				48'											
TOTALS	552.0	3.8	107,090	166'	56'	138'		226'		270'					

SBI ROUTE SEC.
F.A. ROUTE F.A. PROJ.
COUNTY
DISTRICT NO. 2 DIXON
DRAWN E. A. Davenport 9-14-62 DATE
CHECKED SCALE

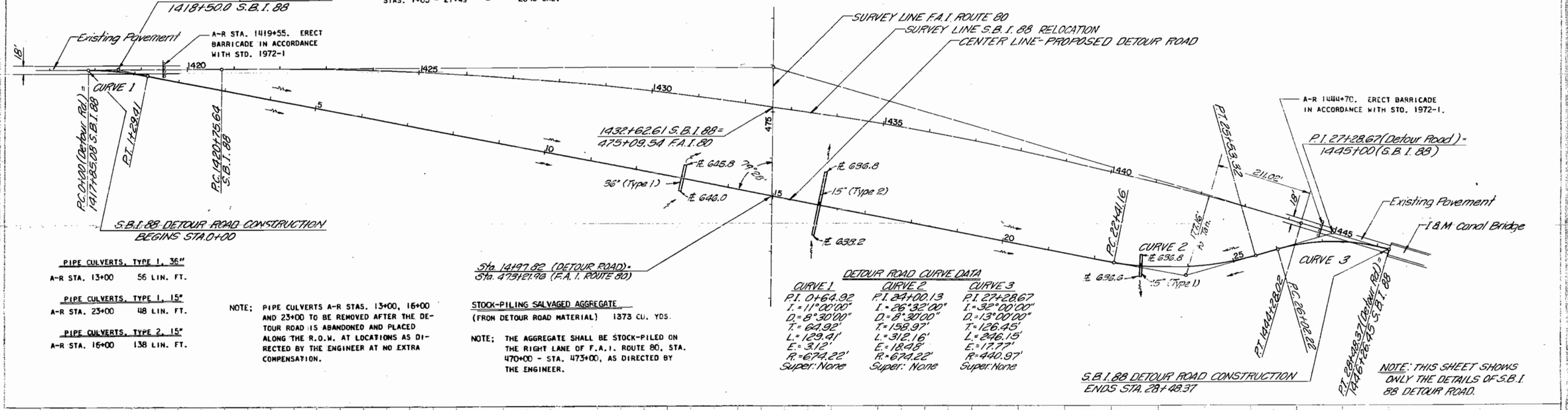

SECTION 06-2HB-1 BEGINS
STA. 1420+42.14 (RELOC. S. B. I. 88)
U.S.G.S. DATUM
5TH. G.A.-1929
BEGIN CONSTRUCTION
STA. 1418+42.14
REMOVE EXISTING CULVERTS
Existing R.O.W. Line
CLAUDE BAILEY
PROPOSED R.O.W. LINES
ILLINOIS POWER CO.
P.O.T. 1432+59.16 S.B.I. 88 =
P.O.T. 475+95.45 F.A.I. 80
R. Sta. 477+95.27
STRUCTURE SECTION 06-2SB BY OTHERS
C. & N. W. R. R.
82°09'28.4" To Tangent
By Others
SECTION 10
SURVEY LINE S.B.I. ROUTE 88 RELOCATION
Section Line
Windmill & Tank
5'x3' Existing Concrete Culvert (To be removed)
2-18" C.M.P.
12' Dia. Conc. Water Tanks
Existing Drain Tile
PROPOSED 5' DITCH
GENERAL TELEPHONE CO. PIPE CULVERTS
TYPE 1, 15"
81' L. 1419+12
54' R. 1419+50
33' L. 1419+83
A sign conforming to Std. 2159-2 shall be erected right Station 1415+00.
Construct Std. 2149 width Transition Lt. Sta. 1418+42.14 to Lt. Sta. 1420+42.14.
PIPE CULVERTS, TYPE 1, 15"
PEL STA. 1419+12 34 LIN. FT.
PER STA. 1419+50 40 LIN. FT.
FEL STA. 1419+83 44 LIN. FT.
INSTALL AFTER DETOUR IS ABANDONED
P.O.T. 1415+00.00 Spike & Washer
CURVE DATA
P.I. 1432+60.00
I. = 16°28'00"
D. = 0°42'00"
T. = 1184.36'
L. = 2352.38'
E. = 85.24'
R. = 8185.16'
Super = 0.02 ft per ft.
Attain Super & Remove Crown: Sta. 1420+42.14 - 1421+03.14 And Sta. 1444+64.00 - 1443+94.52
NOTE: PLACE NO. 4 TIE BARS 2'-6" LONG AT 2'-6" CENTERS RT. STAS. 1424+49 - 1427+08.4 AND RT. AND LT. STAS. 1440+44.8 - 1443+05.6 FOR FUTURE RAMP CORRECTIONS. NO EXTRA COMPENSATION.
SURVEY LINE F.A.I. ROUTE 80
1432+62.61 S.B.I. 88 =
475+09.54 F.A.I. 80
STRUCTURE SEC. 06-2HB-1
GENERAL TELEPHONE CO.
A-R Culvert Sta. 1439+00 (2 @ 90")
226 Lin. Ft. of PIPE CULVERTS, TYPE 2A, 30"
Std. 2102-D30-2, R.C. HEADWALLS - 2 Reqd.
3.8 Cu. Yds. CLASS X CONCRETE (HEADWALLS)
190 Lbs. REINFORCEMENT BARS
P.I. 1432+60.00 1/2" ø Steel Rod
GUTTER REMOVAL
RT. AND LT. STAS. 1441+81 - 1446+27 = 978 LIN. FT.
STEEL PLATE BEAM GUARD RAIL
RT. AND LT. STAS. 1444+00 - 1446+25 = 450 LIN. FT.
REMOVING AND RESETTING GUARD RAIL
RT. STAS. 1443+67 - 1446+25 = 258 LIN. FT.
(SEE SPECIAL PROVISIONS)
R. Sta. 477+45.26
Existing R.O.W. Line
CLAUDE BAILEY
P.T. 1444+28.02 Spike & Washer
Construct Special Width Transition Rt. Sta. 1444+64.0 To Rt. Sta. 1446+27.2. (See Special Detail)
PROPOSED R.O.W. LINES
Existing R.O.W. Lines
5'x3' Existing Concrete Culvert
℄ 632.77
℄ 633.56
To be removed
SE Corner NE 1/4 SE 1/4 Section 9 T.16N., R.7E. of the 4th P.M.
SECTION 06-2HB-1 ENDS
STA. 1444+64.00 (RELOC. S.B.I. 88)
U. S. A.
MISSISSIPPI
CANAL
ILLINOIS
END CONSTRUCTION
STA. 1446+27.20
Existing Thru Steel Truss Structure
A sign conforming to Std. 2159-2 shall be erected Lt. Sta. 1450+00
RAMP "C"
RAMP "D"
Southerly Edge Ramp "D"
SURVEY LINE ACCESS ROAD
Northerly Edge Ramp "B"
RAMP "B"
CONSTRUCT BRIDGE APPROACHES AS PER METHOD II STD. 1909-3 (SKEWED 7°-49')
STA. 1430+81.92 - STA. 1431+23.57 1.69 CU. YDS. 7415 LBS.
STA. 1433+93.82 - STA. 1434+35.47 1.69 CU. YDS. 7415 LBS.
SALVAGED AGGREGATE
P.ER. STA. 1419+50 = 26 CU. YDS.
RT. AND LT. STAS. 1418+42.14 - 1431+23.57 = 48 CU. YDS.
RT. AND LT. STAS. 1433+93.82 - 1445+27.20 = 46 " "
(FROM DETOUR ROAD MATERIAL AND PLACED AS TYPE B SHOULDERS & SURFACE COURSE)
MANHOLES SPECIAL, 4 FT. DIAMETER
110' RT. STA. 1429+00 = 1 EACH
140' LT. STA. 1430+00 = 1 "
GRAVEL OR CRUSHED STONE BASE COURSE, TYPE A
PEL STA. 1419+12 = 20 TON
110' RT. STA. 1429+00 - 140' LT. STA. 1430+00 = 270 LIN. FT.
EXPLORATION TRENCH 52 INCH DEPTH
RT. STA. 1429+00 100 LIN. FT.
LT. STA. 1430+00 100 LIN. FT.
NOTE: CONSTRUCT TEMPORARY APPROACH R. STA. 1419+50 FOR USE WHILE DETOUR IS IN OPERATION. SALVAGE EXISTING 15" PIPE CULVERT AND RE-SET UNDER TEMPORARY APPROACH. COST TO BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.
PROFILE OF EXISTING PAVEMENT ALONG ℄
CROWN OF PROPOSED IMPROVEMENT
PROFILE OF EXISTING GROUND ALONG SURVEY LINE
BRIDGE SECTION 06-2HB-1
RT. DITCH -2.70%
LT. DITCH -2.95%
RT. DITCH -2.00%
RT. DITCH -0.48%
LT. DITCH -0.20%
High Water El. 631.0
4,334 CU. YDS. EARTH EXCAVATION
3,223 CU. YDS. EMBANKMENT
12,970 CU. YDS. EARTH EXCAVATION
47,417 CU. YDS. EMBANKMENT
HAUL 49,841 CU. YDS. FROM STAS. 1439+61.9 - 1472+20 (F.A.I. RTE. 80)
HAUL 83 CU. YDS. FROM STAS. 474+97 - 475+22 (F.A.I. RTE. 80)
6537 CU. YDS. EARTH EXCAVATION
4746 CU. YDS. EMBANKMENT
S.B.I. ROUTE 88
SINGLE PLAN AND PROFILE - DOTTED
SODDING
BRIDGE CONE - STAS. 1431+23 - 1431+73 577 SQ. YDS.
BRIDGE CONE - STAS. 1433+50 - 1433+92 495 " "
5 UNIT SUPPLEMENTAL WATERING
0.7 TON FERTILIZER NUTRIENTS
20 TON STRAW FOR ASPHALT-COATED MULCH
1700 GAL. EMULSIFIED ASPHALT
4.1 ACRE TEMPORARY SEEDING
4.1 ACRE COMPLETE SEEDING
2124 TON SUB-BASE GRANULAR MATERIAL, TYPE A
2 UNIT REMOVING AND REPLACING CURING COVERING
10 EACH FURNISHING AND ERECTING RIGHT OF WAY MARKERS
PAVEMENT REMOVAL
STAS. 1420+42.14 - 1424+00 = 716 SQ. YDS.
STAS. 1431+00 - 1434+20 = 640 " "
STAS. 1438+87 - 1444+64 = 1154 " "
WOOD GUARD RAIL REMOVAL
Rt. and Lt. Sta. 1443+67 - 1448+25 = 516 Lin. Ft.
BITUMINOUS MATERIALS (PRIME COAT)
PEL. STA. 1419+12 3 TONS 10 GAL.
PER. STA. 1419+50 3 TONS 10 GAL.
BENCH MARK | ELEVATION | DESCRIPTION
B.M. #37 | El. 647.80 | "D" Chiseled on Concrete Headwall 280 Ft. Lt. Sta. 475+20.
B.M. #37A | El. 673.40 | "D" in Concrete Steps 30' Left Sta. 1418+53.
B.M. #37B | El. 654.34 | Spike & Washer in Top of Guard Post 14' Left Sta. 1445+96.
80 06-2HB-1 BUREAU 40 5
1418+00 1428+00

U.S.G.S. DATUM
5TH G.A.-1929

GRAVEL OR CRUSHED STONE BASE COURSE, TYPE A
STAS. 1+05 - 27+49 = 4015 TON
TR 112 RT. 14+40 = 55 "
BITUMINOUS CONCRETE BINDER COURSE
STAS. 1+05 - 27+49 = 543 TON
BITUMINOUS CONCRETE SURFACE COURSE - I-11, 1½" THICK
STAS. 1+05 - 27+49 = 543 TON
BITUMINOUS MATERIALS (PRIME COAT)
STAS. 1+05 - 27+49 = 2640 GAL.

CURVE DATA
P.I. 1432+60.00
I.=16°28'00"
D.=0°42'00"
T.=1184.36'
L.=2352.38'
E.=85.24'
R.=8185.16'

F.A.I. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	96 SB-1	BUREAU	40	6
STA. 0+00		TO STA. 28+50		
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



PIPE CULVERTS, TYPE 1, 36"
A-R STA. 13+00 56 LIN. FT.

PIPE CULVERTS, TYPE 1, 15"
A-R STA. 23+00 48 LIN. FT.

PIPE CULVERTS, TYPE 2, 15"
A-R STA. 16+00 138 LIN. FT.

NOTE; PIPE CULVERTS A-R STAS. 13+00, 16+00 AND 23+00 TO BE REMOVED AFTER THE DETOUR ROAD IS ABANDONED AND PLACED ALONG THE R.O.W. AT LOCATIONS AS DIRECTED BY THE ENGINEER AT NO EXTRA COMPENSATION.

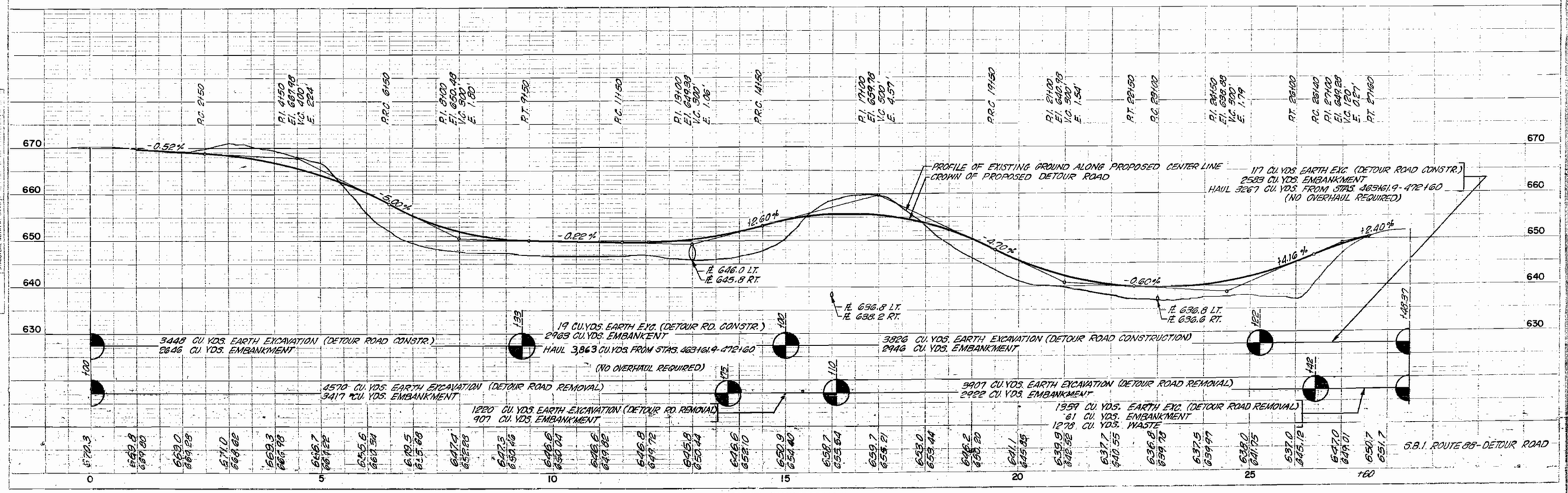
STOCK-PILING SALVAGED AGGREGATE
(FROM DETOUR ROAD MATERIAL) 1373 CU. YDS.

NOTE; THE AGGREGATE SHALL BE STOCK-PILED ON THE RIGHT LANE OF F.A.I. ROUTE 80, STA. 470+00 - STA. 473+00, AS DIRECTED BY THE ENGINEER.

DETOUR ROAD CURVE DATA

CURVE 1	CURVE 2	CURVE 3
P.I. 0+64.92	P.I. 24+00.13	P.I. 27+28.67
I.=11°00'00"	I.=26°32'00"	I.=32°00'00"
D.=8°30'00"	D.=8°30'00"	D.=13°00'00"
T.=64.92'	T.=158.97'	T.=126.45'
L.=129.41'	L.=312.16'	L.=246.15'
E.=3.12'	E.=18.48'	E.=17.77'
R.=674.22'	R.=674.22'	R.=440.97'
Super: None	Super: None	Super: None

NOTE: THIS SHEET SHOWS ONLY THE DETAILS OF S.B.I. 88 DETOUR ROAD.



F.A.I. Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2HB-1	BUREAU	40	7

STA. 455+00 TO STA. 480+00

FED. ROAD DIST. NO. 7 ILLINOIS — PROJECT

U.S.G.S. DATUM
5TH G. A. 1929

BECKHAM A. DYE & HARRIET DYE

P.O.T. 463+00.80 — P.O.T. 468+32.22 — P.O.T. 475+77.73 — P.O.T. 478+52.52 — P.O.T. 475+95.45 (F.A.I. 80)= P.O.T. 1432+59.16 (RELOC. S.B.I. 88)

CLAUDE BAILEY

CURVE DATA
(RELOC. S.B.I. RTE. 88)
P.I. 1432+60.00
I = 16°28'00"
D = 0°42'00"
T = 1184.36'
L = 2352.38'
E = 85.29'
R = 8185.16'

SURVEY LINE - PROPOSED RELOCATION S.B.I. ROUTE 88

STRUCTURE SECTION 06-2SB BY OTHERS

SURVEY LINE - F.A.I. ROUTE 80
PROPOSED R.O.W. LINES

PROPOSED R.O.W. LINES

170' Lt.

210' Rt.

℄ Sta. 462+92.50 "1A" Section Line

464+00

RAMP "A"

RAMP "B"

RAMP "C"

RAMP "D"

EXCAVATION AREA BY OTHERS (SEC. 06-2SB)

TOWNSHIP ROAD 112

Overhead Telephone Line

Hedge — Remove — Remove — Hedge

SEC. 06-2SB 79°28'

EXCAVATION AREA BY SEC. 06-2HB-1

STA. 473+21.96 F.A.I. ROUTE 80 = STA. 1419+82 S.B.I. 88 DETOUR ROAD

CENTER LINE S.B.I. 88 DETOUR ROAD

STRUCTURE - SECTION 06-2HB-1
Sta. 475+09.54 (F.A.I. 80) =
Sta. 1432+62.61 (S.B.I. 88 RELOC.)

ALL NOTES ON THIS SHEET APPLY TO SECTION 06-2HB-1 UNLESS OTHERWISE NOTED.

T.R. 112 — 125' — 130' — 455 — 460 — 465 — 470 — 475 — 480

S.B.I. 88 — ROUTE — Existing 18' Conc.

℄ Sta. 477+95.27 — RAILROAD — ℄ Sta. 478+35.28

CHICAGO & NORTHWESTERN ℄ Single Track

℄ Sta. 477+45.26

℄ Sta. 480+05.28

TREE REMOVAL (6 TO 15 INCH DIAMETER)

89' LT. STA. 474+44 — 14 IN. DIA.

TREE REMOVAL (OVER 15 INCH DIAMETER)

82' LT. STA. 473+55 — 24 IN. DIA.
90' LT. STA. 474+92 — 26 IN. DIA.

HEDGE REMOVAL

18' LT. STA. 462+83 - 24' LT. STA. 464+88 — 2.1 UNITS
24' LT. STA. 465+77 - 22' LT. STA. 467+62 — 1.5 "
22' LT. STA. 468+36 - 23' LT. STA. 474+70 — 6.3 "

NOTE; HEDGE REMOVAL TO INCLUDE SCATTERED TREES IN HEDGE ROW.

BENCH MARK	ELEVATION	DESCRIPTION
B.M. 36	657.21	Spk & W. in Root of Cherry Tree 193' Lt. Sta. 462+83.
B.M. 37	647.80	"D" Chiseled on Concrete Headwall 280' Lt. Sta. 475+20.

FINIS B. MOORE & MAIZIE M. MOORE

CLAUDE BAILEY

AREA FROM RT. LANE TO BE EXCAVATED AND PLACED IN EMBANKMENT ON S.B.I. 88 & S.B.I. 88 DETOUR ROAD.

CROWN OF PROPOSED IMPROVEMENT

PROFILE OF EXISTING GROUND ALONG SURVEY LINE

P.C. 475+50

P.I. 478+50
El. 637.82
V.C. 600
E. 1.84'

P.T. 481+50

STRUCTURE SECTION 06-2HB-1

AREA AT RT. & LT. SLOPE WALLS TO BE EXCAVATED & PLACED IN EMBANKMENT ON S.B.I. 88

STRUCTURE SECTION 06-2SB BY OTHERS

+09.54

+45.21

-0.84%

+1.62%

670 — 660 — 650 — 640 — 630

56,971 CU. YDS. EARTH EXCAVATION
HAUL 49,841 CU. YDS. TO STAS. 1425+39 - 1497+80
HAUL 7,130 CU. YDS. TO DETOUR ROAD
(NO OVERHAUL REQUIRED)

181.9 — 160 — 197 — 122

83 CU. YDS. EARTH EXCAVATION
HAUL 83 CU. YDS. TO STA. 1425+39 - 1497+80

F. A. I. ROUTE 80

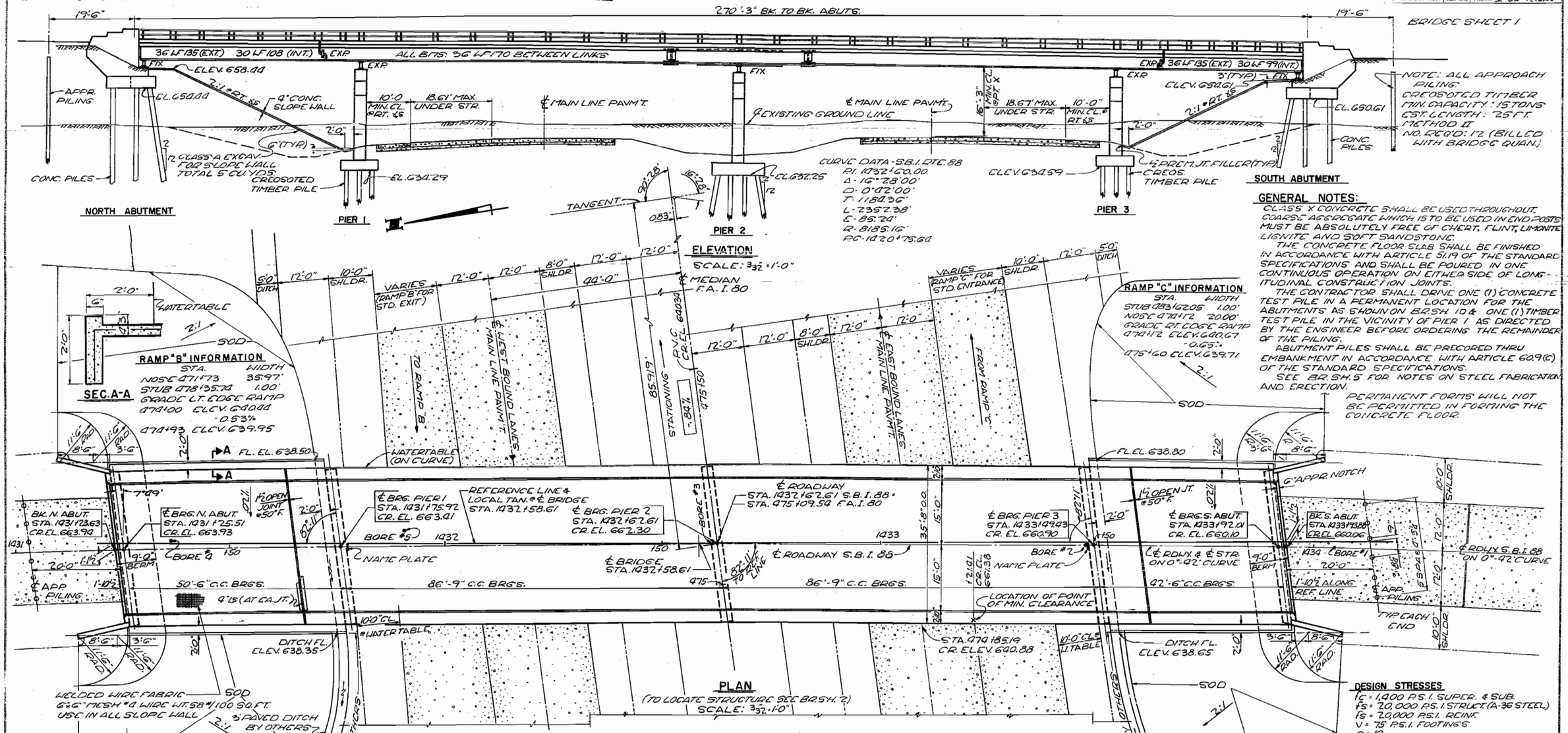
646.7 657.57 — 646.8 654.72 — 649.5 655.88 — 655.8 655.04 — 656.2 654.20 — 652.4 653.36 — 652.2 652.52 — 653.7 651.68 — 659.5 650.84 — 660.6 650.00 — 662.6 649.16 — 663.0 648.32 — 663.2 647.48 — 662.6 646.64 — 657.5 645.80 — 652.4 644.96 — 650.4 644.12 — 650.1 643.28 — 651.2 642.44 — 650.0 641.60 — 646.4 640.76 — 644.7 639.97 — 641.9 639.54 — 640.0 639.82 — 641.0 639.91 — 644.3 640.71 — 649.9 641.92 — 650.3 643.49

455 — 460 — 465 — 470 — 475 — 480

B.M. #37 ~ CHISELED "O" ON CONC. HEADWALL 280' LT.
STA. 475+20 (F.A.I. 80) ELEV. 647.80 (U.S.G.S. DATUM)
EXISTING STRUCTURE: NONE

P.I. STA. 1432+00 EL. 666.931
V.C. 1120' E.G. 17.6
+1.00% -3.91%

F.A.I.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2 HB-1	BUREAU	40	8
U.S. DIST. NO. 7	ILLINOIS	PROJECT I-80-1(46)95		



STA. 475+09.54
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 80 - SEC. 06-2 HB-1
F.A. PROJ. I-80-1(46)
LOADING H20-S16

LETTERING FOR NAMEPLATE
SEE STD. 2113

GENERAL NOTES:

CLASS X CONCRETE SHALL BE USED THROUGHOUT. COARSE AGGREGATE WHICH IS TO BE USED IN END POSTS MUST BE ABSOLUTELY FREE OF CHERT, FLINT, LIMONITE LIGNITE AND SOFT SANDSTONE.

THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS AND SHALL BE POURED IN ONE CONTINUOUS OPERATION ON EITHER SIDE OF LONGITUDINAL CONSTRUCTION JOINTS.

THE CONTRACTOR SHALL DRIVE ONE (1) CONCRETE TEST PILE IN A PERMANENT LOCATION FOR THE ABUTMENTS AS SHOWN ON BR. SH. 10 & ONE (1) TIMBER TEST PILE IN THE VICINITY OF PIER 1 AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILING.

ABUTMENT PILES SHALL BE PRECORED THRU EMBANKMENT IN ACCORDANCE WITH ARTICLE 609.(C) OF THE STANDARD SPECIFICATIONS.

SEE BR. SH. 5 FOR NOTES ON STEEL FABRICATION AND ERECTION.

PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING THE CONCRETE FLOOR.

BILL OF MATERIAL (STRUCTURE)

ITEM	UNITS	SUPER	SUB	TOTAL
CLASS A EXCAVATION FOR STRUCTURES	CU. YDS.		185	185
CLASS X CONCRETE	CU. YDS.	274.5	274.1	548.6
ERECTING STRUCTURAL STEEL	LBS.	304,840		304,840
FURNISHING AND ERECTING METAL HANDRAIL	LIN. FT.	536		536
REINFORCEMENT BARS	LBS.	63,550	28,390	91,940
FURNISHING CREOSOTED PILES 20.1 TO 38 FT.	LIN. FT.		1,892	1,892
TEST PILE TIMBER	EACH		1	1
DRIVING TIMBER PILES	LIN. FT.		1,854	1,854
PROTECTIVE COAT	SQ. YDS.	1,330		1,330
DRIVING CONCRETE PILES	LIN. FT.		1,000	1,000
FURNISHING CONCRETE PILES	LIN. FT.		1,000	1,000
TEST PILE CONCRETE	EACH		1	1
NAME PLATES	EACH		2	2
SLOPE WALL - 4 INCH	SQ. YD.		[illegible]	[illegible]

DESIGN STRESSES
f'c = 1,400 P.S.I. SUPER. & SUB.
fs = 20,000 P.S.I. STRUCT. (A-36 STEEL)
fs = 20,000 P.S.I. REINF.
V = 75 P.S.I. FOOTINGS
n = 10

H 20 - S16 LOADING
DEAD LOAD TO INCLUDE 18#/□' RDWY. FOR FUTURE SURFACING

DESIGNED BY: T.D. GAZDA
CHECKED BY: J. DUNLAP
DRAWN BY: F.H. & R.R.

GENERAL PLAN & ELEVATION
F.A.I. RTE. 80 - SEC. 06-2 HB-1
PROJECT I-80-1(46)95
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILLINOIS
STA. 475+09.54 F.A.I. 80

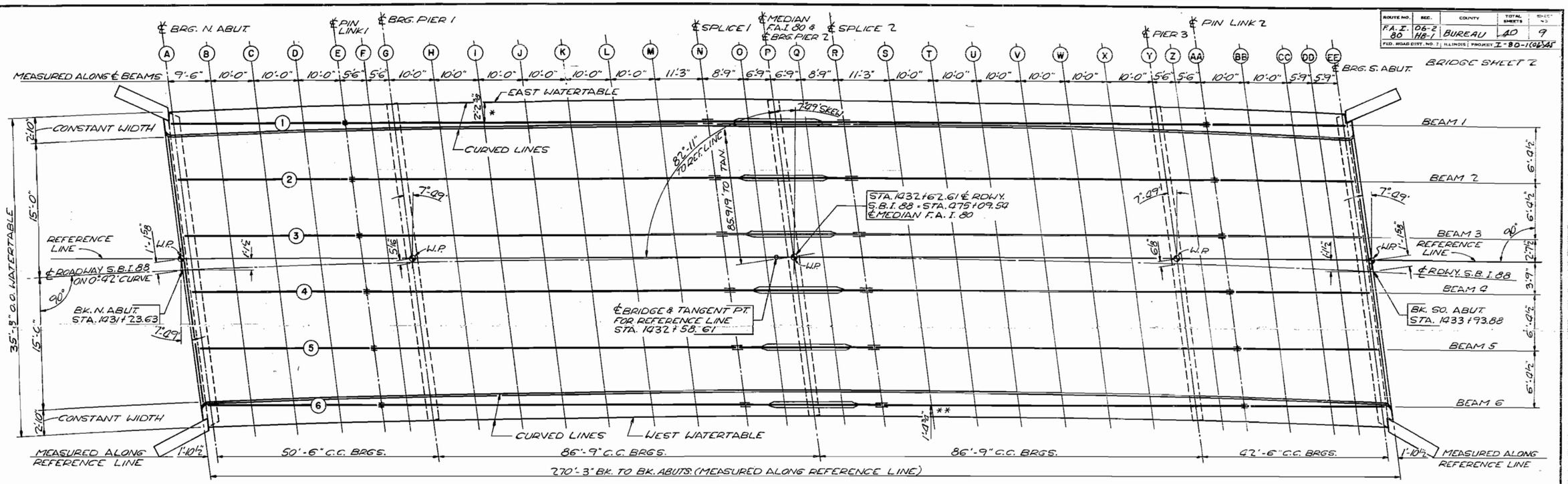
10-31-61

PLANS PREPARED BY ROBERT HOFMANN & ASSOCIATES, CONSULTING ENGINEERS, DIXON, ILLINOIS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2 HB-1	BUREAU	40	9

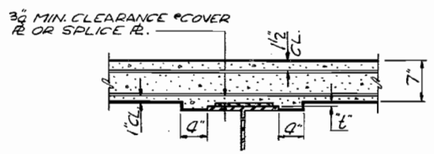
FED. ROAD DIST. NO. 7 | ILLINOIS | PROJECT I-80-1(082)45

BRIDGE SHEET 2



LOCATION PLAN

(USE "REFERENCE LINE" TO LOCATE STRUCTURE IN FIELD)



METHOD OF DETERMINING FILLET HEIGHTS "t"

AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT THE REFERENCE POINTS SHOWN ON THIS SHEET. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION" SHOWN ON THIS SHEET, MINUS FLOOR THICKNESS EQUALS THE FILLET HEIGHTS ABOVE TOP OF BEAM.

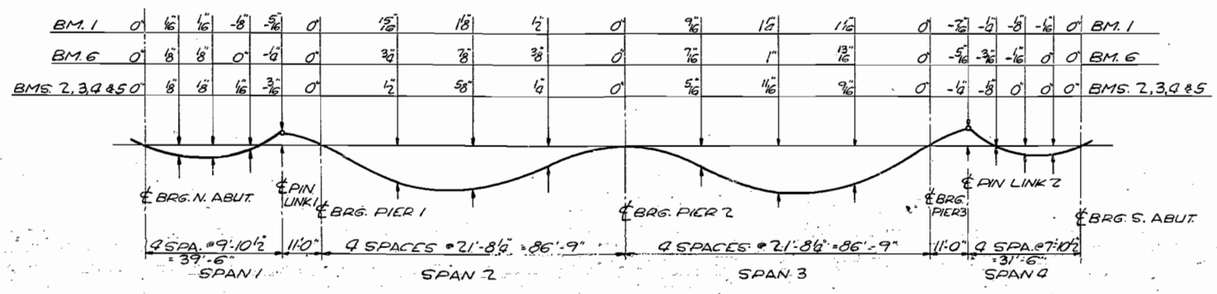
RIGHT ANGLE OFFSETS FROM ℄ BEAM 1 & 6 TO WATERTABLE

LOC.	BM. 1	BM. 6
A	1'-4⅛"	2'-4½"
B	1'-5⅞"	2'-2¾"
C	1'-7⅝"	2'-1⅛"
D	1'-9⅜"	1'-11½"
E	1'-10¾"	1'-10⅛"
F	1'-11½"	1'-9⅜"
G	2'-0¼"	1'-8¾"
H	2'-1½"	1'-7½"
I	*2'-2⅜"	1'-6⅝"
J	2'-3⅜"	1'-5⅞"
K	2'-4⅛"	1'-5⅛"
L	2'-4⅝"	1'-4⅝"
M	2'-5"	1'-4⅜"
N	2'-5⅜"	1'-4⅛"
O	2'-5½"	1'-4"
P	2'-5½"	1'-4"
Q	2'-5½"	1'-4⅛"
R	2'-5¼"	1'-4⅜"
S	2'-4⅞"	**1'-4¾"
T	2'-4½"	1'-5¼"
U	2'-3⅞"	1'-6"
V	2'-3"	1'-6⅞"
W	2'-2"	1'-7⅞"
X	2'-1"	1'-9"
Y	1'-11¾"	1'-10⅜"
Z	1'-11"	1'-11"
AA	1'-10¼"	1'-11⅞"
BB	1'-8¾"	2'-1½"
CC	1'-7⅛"	2'-3¼"
DD	1'-6"	2'-4⅜"
EE	1'-4⅞"	2'-5⅜"

* } TYPICAL - SEE PLAN
**

THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS

LOC.	BM. 1	BM. 2	BM. 3	BM. 4	BM. 5	BM. 6
A	664.27	664.14	664.00	663.87	663.73	663.60
B	664.19	664.06	663.92	663.79	663.65	663.51
C	664.09	663.96	663.83	663.69	663.55	663.41
D	663.97	663.85	663.71	663.58	663.44	663.30
E	663.85	663.72	663.59	663.45	663.31	663.17
F	663.80	663.67	663.53	663.39	663.26	663.12
G	663.76	663.62	663.48	663.34	663.20	663.07
H	663.68	663.53	663.39	663.25	663.11	662.98
I	663.60	663.43	663.29	663.15	663.01	662.87
J	663.49	663.31	663.18	663.04	662.90	662.76
K	663.37	663.19	663.05	662.91	662.77	662.64
L	663.23	663.05	662.91	662.77	662.64	662.52
M	663.08	662.91	662.77	662.63	662.49	662.37
N	662.88	662.73	662.60	662.45	662.31	662.18
O	662.74	662.60	662.46	662.32	662.18	662.04
P	662.64	662.50	662.36	662.22	662.08	661.94
Q	662.55	662.41	662.27	662.13	661.98	661.84
R	662.43	662.29	662.15	662.01	661.87	661.73
S	662.31	662.14	662.00	661.86	661.71	661.59
T	662.18	662.00	661.86	661.71	661.57	661.46
U	662.03	661.84	661.70	661.56	661.42	661.30
V	661.86	661.68	661.54	661.39	661.25	661.13
W	661.68	661.50	661.36	661.21	661.07	660.95
X	661.47	661.31	661.17	661.02	660.88	660.75
Y	661.25	661.11	660.97	660.82	660.68	660.54
Z	661.13	661.00	660.86	660.71	660.57	660.42
AA	661.02	660.89	660.75	660.61	660.46	660.31
BB	660.86	660.72	660.58	660.44	660.29	660.14
CC	660.68	660.55	660.40	660.26	660.11	659.96
DD	660.58	660.44	660.29	660.15	660.00	659.86
EE	660.47	660.32	660.18	660.04	659.89	659.75



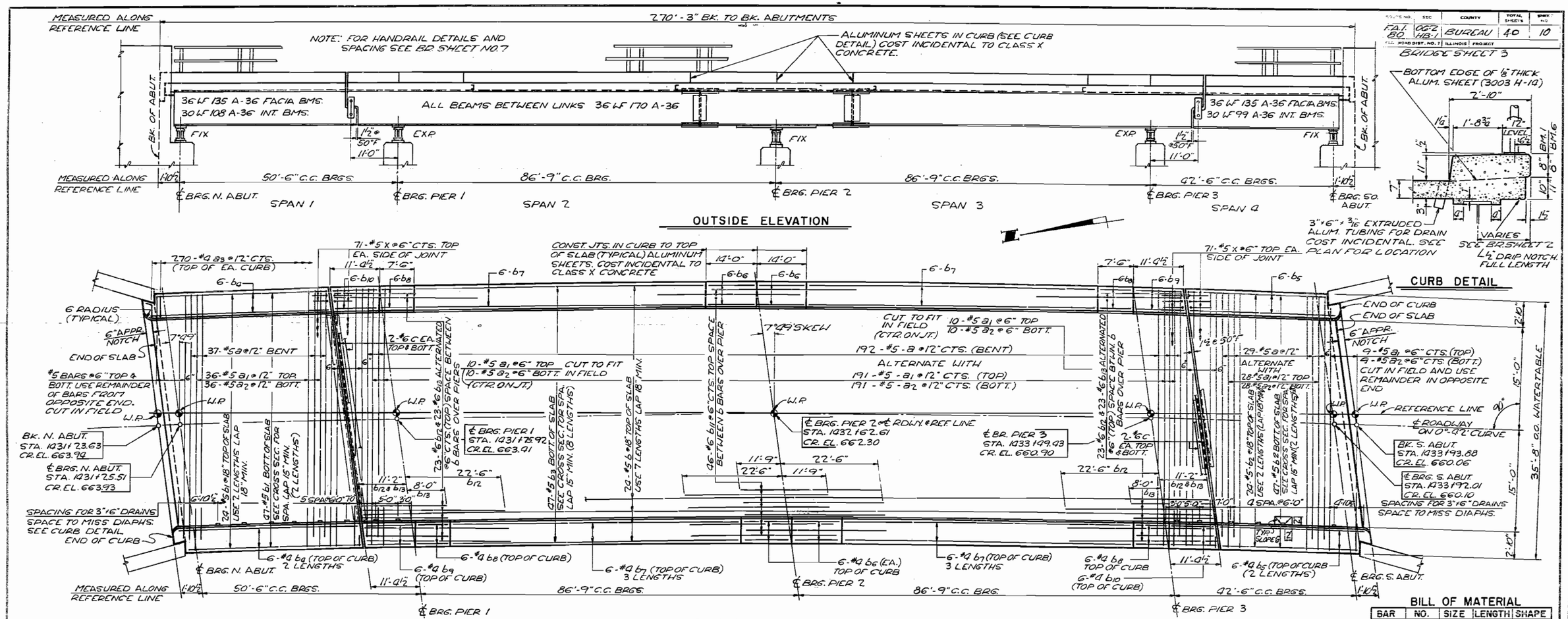
DEAD LOAD DEFLECTION DIAGRAM

(WEIGHT OF STRUCTURAL STEEL NOT INCLUDED. DIAGRAM FOR REFERENCE ONLY, DO NOT USE FOR CONSTRUCTION PURPOSES)

LOCATION PLAN
F.A.I. RTE. 80 SEC. 06-2 HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILLINOIS
STA. 475+09.54 F.A.I. 80

F.A.I. 80.	06-2 HB-1	BUREAU	40	10
F.A.I. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

BRIDGE SHEET 3



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a	258	#5	35'-7"	
a1	284	#5	35'-2"	
a2	284	#5	37'-8"	
a3	540	#4	3'-10"	
b	168	#5	29'-4"	
b1	102	#5	21'-0"	
b2	102	#5	17'-0"	
b3	376	#5	25'-9"	
b4	24	#4	20'-9"	
b5	24	#4	16'-9"	
b6	24	#4	13'-9"	
b7	72	#4	22'-6"	
b8	24	#4	7'-3"	
b9	12	#4	11'-0"	
b10	12	#4	10'-9"	
b11	46	#6	34'-3"	
b12	46	#6	33'-8"	
b13	46	#6	19'-2"	
c	8	#6	35'-3"	
x	284	#5	5'-0"	
CLASS X CONCRETE			CU. YDS.	270.5
REINFORCEMENT BARS			LBS.	63,550
STRUCTURAL STEEL			LBS.	304,840

DECK DETAILS
F.A.I. RTE. 80 - SEC. 06-2 HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILLINOIS
STA. 475+09.54 F.A.I. 80

ROUTE NO.	SEC.	COUNTY		
F.A.I. 80	06 2HB-1	BUREAU	40	11
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

BRIDGE SHEET 4

BORING 1

℄ STA. 1033+05

N	qu		
			GROUND SURFACE EL. 602.8 ±
		600	STIFF BROWN SILTY CLAY LOAM
13	2.5	B	VERY STIFF GRAY BROWN CLAY TILL
		635	HARD GRAY BROWN CLAY TILL
23	2.1		
13	1.9	B	STIFF GRAY BROWN CLAY TILL
		630	
22	2.9	B	VERY STIFF GRAY BROWN CLAY TILL
25	2.3		
		625	HARD GRAY BROWN CLAY TILL, LAYER OF SAND
16	0.0		
31	3.7	B	VERY STIFF GRAY BROWN CLAY TILL
		620	
33	4.0	B	HARD GRAY BROWN CLAY TILL
38	4.4	B	
		615	
52	4.0	B	
33			DENSE GRAY SAND
		610	VERY STIFF GRAY CLAY TILL
68	2.7	B	
55			VERY DENSE GRAY SILTY LOAM
		605	
17			DENSE FINE BROWN SAND
51			VERY DENSE FINE BROWN SAND
			END OF BORING 601.3

NOTE: qu: UNCONFINED COMPRESSIVE STRENGTH (TONS/FT²)
N: NO. OF BLOWS/FT. 140# HAMMER DROPPING 30" ON 2" O.D. SPLIT SPOON SAMPLER.

B: INDICATES BULGE FAILURE

BORING 2

℄ STA. 1033+48

N	qu		
			GROUND SURFACE EL 602.8 ±
		640	MEDIUM BROWN SAND AND WELL GRADED GRAVEL
12	1.3	B	STIFF BROWN PEBBLEY SILTY CLAY LOAM
		635	STIFF GRAY BROWN CLAY LOAM TILL
18	1.6	B	
35	2.3	B	
		630	VERY STIFF GRAY BROWN CLAY LOAM TILL
30	2.0		
22	2.7	B	
		625	STIFF GRAY CLAY LOAM TILL
19	1.3	B	
19	2.3	B	VERY STIFF GRAY BROWN CLAY LOAM TILL
		620	
52	2.5		
31	2.7	B	VERY STIFF GRAY BROWN CLAY
		615	STIFF PEBBLEY GRAY BROWN CLAY LOAM TILL
10	1.9		
57	7.6		HARD GRAY BROWN PEBBLEY CLAY TILL, AND LENSES
		610	STIFF GRAY BROWN PEBBLEY CLAY TILL
18	1.5		
33	2.3	B	
		605	VERY STIFF GRAY BROWN PEBBLEY CLAY TILL
10	3.1	B	
28			MEDIUM GRAY SILTY LOAM
		600	MEDIUM GRAY SAND AND OCCASIONAL GRAVEL
12			
11			MEDIUM GRAY BROWN FINE SAND
		595	DENSE COARSE GRAVEL
50			
			END OF BORING 593.8

BORING 3

℄ STA. 1032+62

N	qu		
			GROUND SURFACE EL. 603.2 ±
		640	MEDIUM BROWN SILTY CLAY LOAM
10	1.4	B	STIFF BROWN CLAY LOAM TILL
		635	
16	1.1	B	
18	0.9	B	MEDIUM GRAY BROWN CLAY LOAM TILL
		630	
22	1.2	B	STIFF GRAY BROWN CLAY LOAM TILL
21	1.2	B	
		625	VERY STIFF GRAY BROWN CLAY TILL
30	2.0	B	
22	1.1		MEDIUM ALTERNATE LAYERS OF SANDY LOAM & CLAY LOAM
		620	VERY STIFF PEBBLEY GRAY BROWN CLAY TILL
70	2.0		
44			DENSE GRAY SAND & ROUNDED SUBANGULAR POORLY GR GRAVEL
		615	VERY DENSE GRAY SILTY LOAM
80			
25	2.0	B	VERY STIFF GRAY CLAY LOAM TILL. FINE SANDY LOAM LENS
		610	
26	2.5	B	
30			DENSE GRAY SANDY LOAM
		605	VERY DENSE GRAY SILTY LOAM
50			
52			VERY DENSE GRAY SAND AND SOME SMALL GRAVEL.
		600	DENSE GRAY FINE SAND
31			
43			DENSE GRAY FINE SAND, OCCASIONAL GRAVEL
		595	
41			VERY DENSE GRAY SILTY LOAM
75			
			END OF BORING 592.2

BORING 4

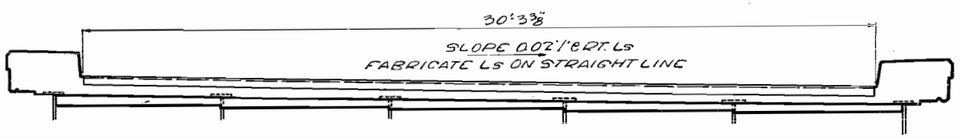
2' LT. ℄ STA. 1031+36

N	qu		
			GROUND SURFACE EL. 605.0 ±
			GRAVELLY FILL
		640	
3	0.2	B	VERY SOFT SILTY CLAY LOAM
7			LOOSE BROWN SANDY LOAM
		635	
8	0.9	B	MEDIUM GRAY BROWN CLAY LOAM TILL
10	0.7	B	
		630	STIFF GRAY CLAY LOAM TILL
12	1.0	B	
20	2.0	B	VERY STIFF GRAY CLAY LOAM TILL
		625	
25	1.6	B	STIFF GRAY BROWN CLAY LOAM TILL
29	1.6	B	
		620	
18	2.0	B	VERY STIFF GRAY BROWN CLAY LOAM TILL
26	1.5		STIFF GRAY BROWN SANDY CLAY LOAM TILL
		615	
24			MEDIUM GRAY BROWN SILTY CLAY LOAM
32	2.0	B	VERY STIFF GRAY BROWN CLAY LOAM TILL
		610	
79			VERY DENSE GRAVELLY TILL
27			MEDIUM GRAY SAND & ANGULAR POORLY GRADED SMALL GRAVEL
		605	
46	2.5		DENSE GRAY BROWN PEBBLEY CLAY TILL
29	6.1	B	
		600	
40	5.2	B	HARD GRAY BROWN CLAY TILL
48	5.1	B	
		595	VERY STIFF PEBBLEY CLAY LOAM TILL
47	3.9	B	
			END OF BORING 593.5

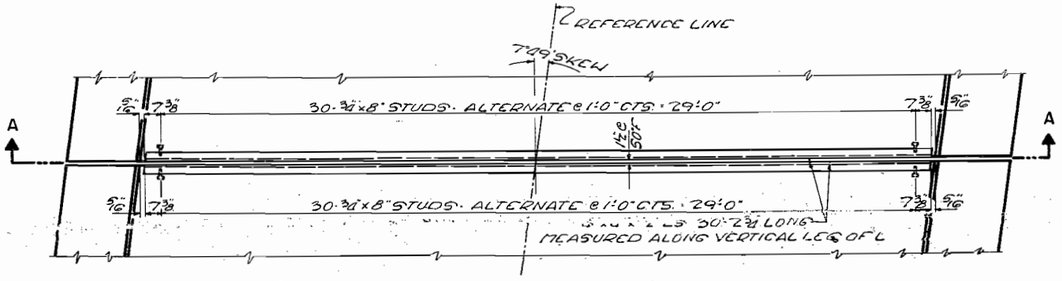
BORING 5

3' LT. ℄ STA. 1031+90

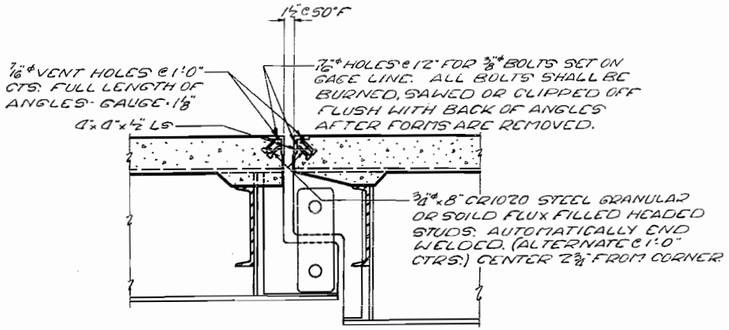
N	qu		
			GROUND SURFACE EL. 605.0
			GRAVELLY FILL
		640	
6	0.3	B	SOFT BROWN SILTY CLAY LOAM
10	0.4	B	SOFT BROWN CLAY LOAM TILL
		635	
9	0.3	B	SOFT GRAY BROWN CLAY LOAM TILL
11	0.3		SOFT PEBBLEY CLAY LOAM TILL
		630	
26	3.3	B	VERY STIFF PEBBLEY CLAY TILL
23	1.0	B	
		625	
13	1.2		
12	1.2	B	STIFF GRAY PEBBLEY CLAY TILL
		620	
27	1.6	B	
22	1.4	B	
		615	
62	3.4	B	
41	2.3	B	
		610	VERY STIFF GRAY PEBBLEY CLAY TILL
23	3.3	B	
42	4.1	B	
		605	HARD GRAY BROWN CLAY LOAM TILL
48	5.5	B	
26			
		600	MEDIUM BROWN FINE SAND AND GRAY SILTY LOAM
23			
53			VERY DENSE BROWN SAND & LARGE ANGULAR POORLY GRADED GRAVEL
			END OF BORING 596.0



SECTION A-A
SCALE 3/8" = 1'-0"



PLAN OF EXPANSION GUARD
SCALE 3/8" = 1'-0"



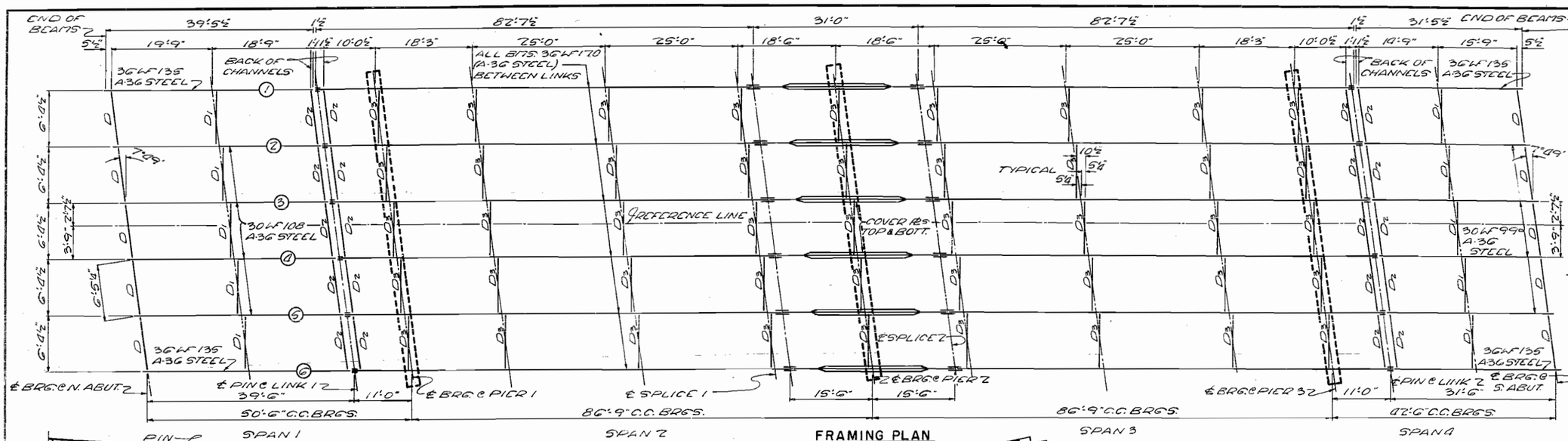
SECTION THRU EXPANSION GUARD
SCALE 3/4" = 1'-0"

NOTE:
ROADWAY EXPANSION GUARD SHALL BE FABRICATED TO FIT ROADWAY. GUARD SHALL BE ASSEMBLED IN PROPER POSITION IN SHOP FOR INSPECTION. ALL SURFACES SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT, EXCEPT THOSE IN CONTACT WITH CONCRETE WHICH SHALL NOT BE PAINTED. EST. WEIGHT OF STRUCTURAL STEEL REQUIRED FOR EXPANSION GUARDS 1,680 LBS. THE WEIGHT OF THE ANGLES AND STUDS ARE INCLUDED IN THE QUANTITY OF STRUCTURAL STEEL.

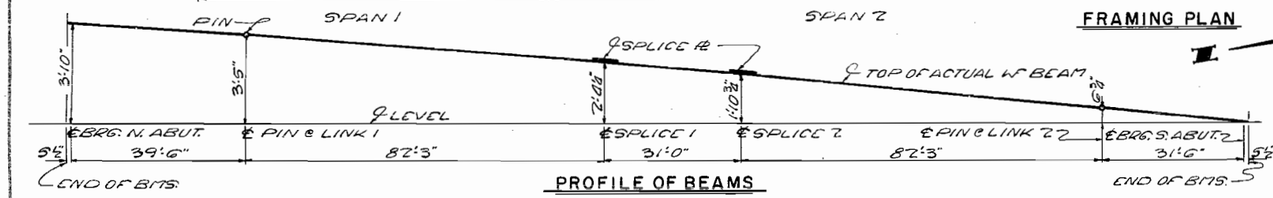
BORINGS AND EXPANSION GUARD DETAILS
F.A.I. RTE. 80 SECTION 06-2HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILLINOIS
STA. 475+09.54 F.A.I. 80

F.A.I.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
80	06 2HB-1	BUREAU	40	12

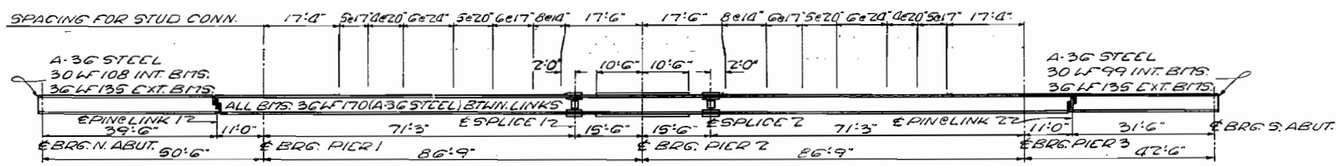
F.A.I. NO. DIST. NO. 7 | ILLINOIS | PROJECT



FRAMING PLAN



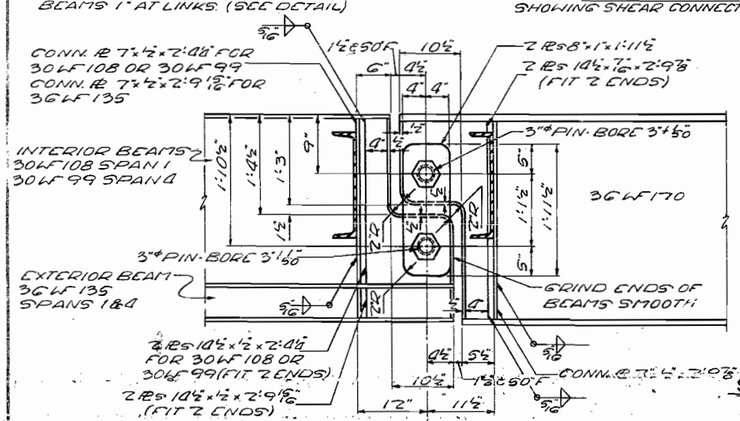
PROFILE OF BEAMS



BEAM ELEVATION

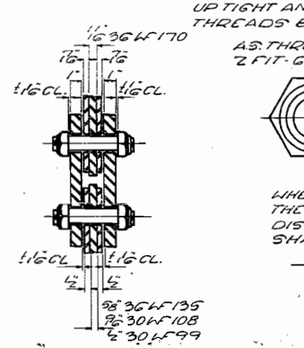
SHOWING SHEAR CONNECTOR SPACING

NOTE: COPE TOP FLANGE OF ALL BEAMS 1" AT LINKS. (SEE DETAIL)



LINK DETAIL

NOTE: USE SAME DETAIL FOR ALL BEAMS EXCEPT FOR LENGTH OF PIN PLATES IN CONNECTION OF BEAMS TOWARDS ABUTMENTS

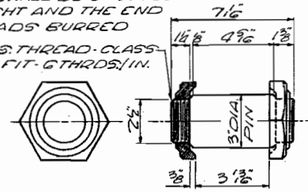


SECTION THRU LINK

COPING DETAIL AT LINKS

(TOP FLANGE ONLY)

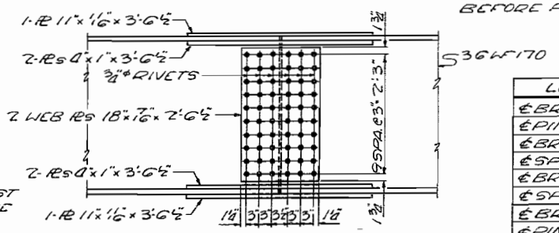
NUTS SHALL BE SNUGGED UP TIGHT AND THE END THREADS BURRED



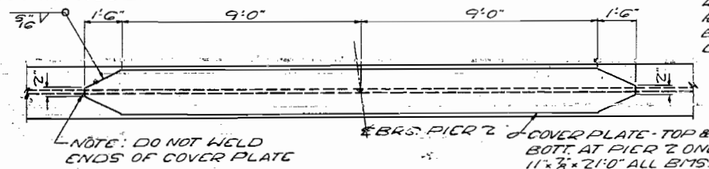
WHEN THE NUTS ARE TIGHT AGAINST THE SHOULDER OF THE 3" ϕ PIN, THE DISTANCE BETWEEN THE NUTS SHALL BE 3 13/16".

PIN NUT & PIN DETAIL

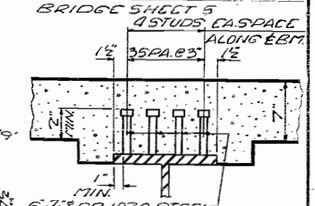
24 PINS REQ'D.



SPLICE DETAIL



COVER PLATE DETAIL



5"x⅞" ϕ CR 1020 STEEL GRANULAR OR SOLID FLUX FILLED HEADED STUDS AUTOMATICALLY END WELDED IN SHOP

STUD CONNECTOR DETAILS

QUANTITY OF STRUCTURAL STEEL INCLUDES 1650 LBS. FOR SHEAR CONNECTORS.

BASED ON THE WEIGHT OF STUDS AT THE RATE OF 98 LBS. PER 100 STUDS.

GENERAL NOTES

ALL BEAMS 1 THRU 6, ALL SPLICE COMPONENTS, AND ALL COVER PLATES SHALL BE OF A-36 STEEL.

ALL ROCKERS, BOLSTERS, BEARING PLATES, PINTLES, AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 51.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL. EST. 9,210 LBS.

ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER PIERS AND ABUTMENTS.

ALL RIVETS ⅞" ϕ OPEN HOLES 13/16" UNLESS OTHERWISE NOTED. ALL WF BEAM SPLICES SHALL BE SUBPUNCHED, REAMED AND MATCH-MARKED. SUBPUNCH 1/16" AND REAM TO PROPER SIZE.

ALL WF BEAMS SHALL BE SHOP ASSEMBLED TO THEIR PROPER GRADE AND ALIGNMENT WITH OR WITHOUT DIAPHRAGMS, INSPECTED AND REAMED WHILE SO ASSEMBLED.

EXCEPT AS OTHERWISE PROVIDED FOR, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUM. PAINT. ALL PAINT SHALL BE FURNISHED AND APPLIED BY THE CONTRACTOR INVOLVED. STRUCTURAL STEEL SHALL BE INSPECTED BY ILLINOIS DIVISION OF HIGHWAYS BEFORE PAINTING.

* ELEVATION TOP OF WF BEAMS

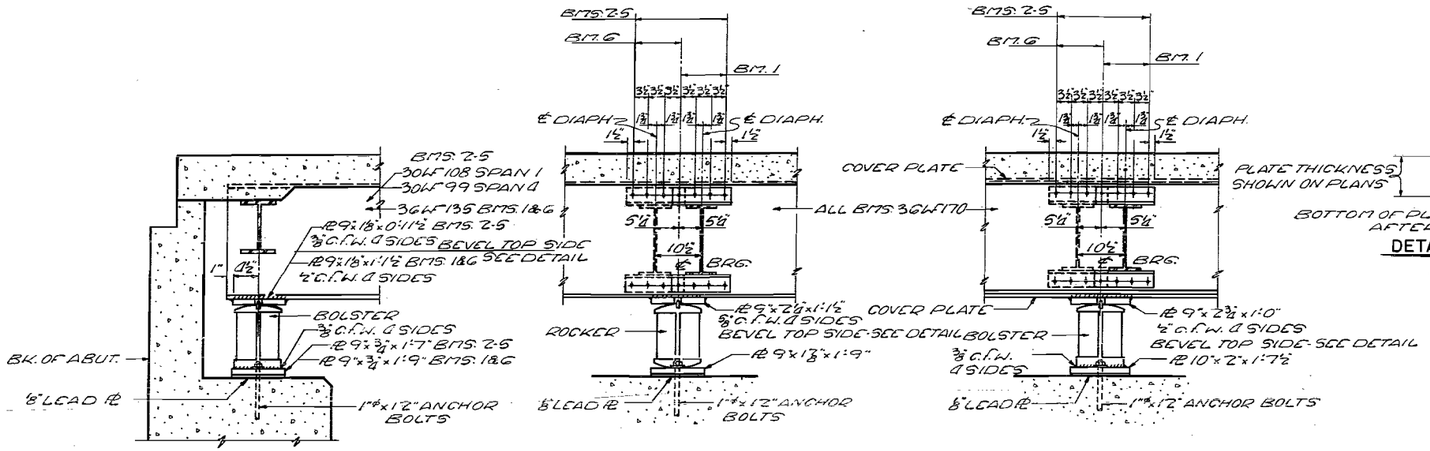
LOCATION	BM 1	BM 2	BM 3	BM 4	BM 5	BM 6
℄ BRG. N. ABUT.	663.68	663.55	663.41	663.27	663.13	662.99
℄ PIN @ LINK 1	663.27	663.13	662.99	662.85	662.71	662.57
℄ BRG. PIER 1	663.13	662.99	662.85	662.71	662.57	662.43
℄ SPLICE 1	662.21	662.07	662.93	662.79	662.65	662.51
℄ BRG. PIER 2	661.98	661.84	661.70	661.56	661.42	661.28
℄ SPLICE 2	661.75	661.61	661.47	661.33	661.19	661.05
℄ BRG. PIER 3	660.60	660.46	660.32	660.18	660.04	659.90
℄ PIN @ LINK 2	660.42	660.28	660.14	660.00	659.86	659.72
℄ BRG. S. ABUT.	659.86	659.72	659.58	659.44	659.30	659.16

* ELEVATIONS REFER TO TOP OF TOP FLANGES OF ACTUAL ROLLED BEAMS. DOES NOT INCLUDE SPLICE ℞s OR COVER ℞s. THESE ELEVATIONS ARE THEORETICAL AND ARE TO BE USED FOR FABRICATION OF STRUCTURAL STEEL AND DO NOT INCLUDE ANY ALLOWANCE FOR DEFLECTION.

STEEL FRAMING PLAN & DETAILS
F.A.I. RTE. 80 SEC. 06-2HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILL.
STA. 475+09.54 F.A.I. 80

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06 (HB-1)	BUREAU	40	13
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

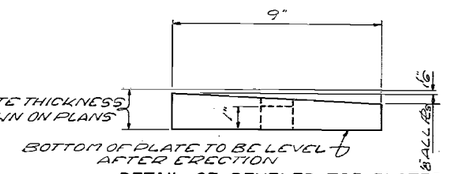
BRIDGE SHEET 6



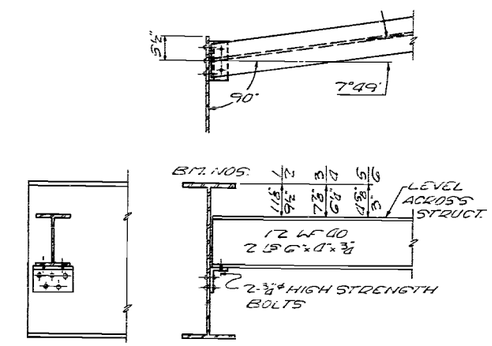
SECTION AT ABUTMENTS

PIERS 1 & 3

PIER 2

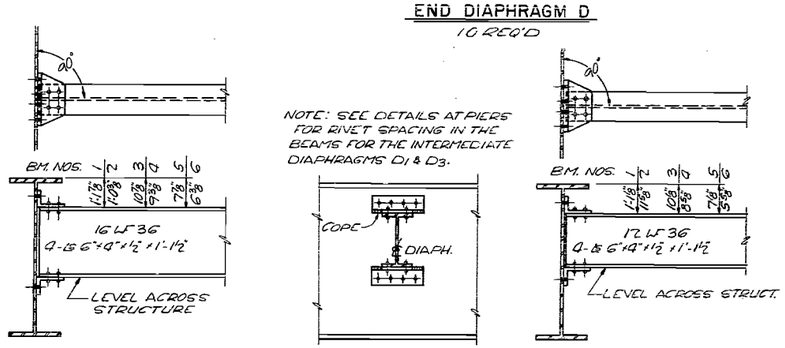


DETAIL OF BEVELED TOP PLATES FOR INCLINED GRADE.



END DIAPHRAGM D

10 REQ'D



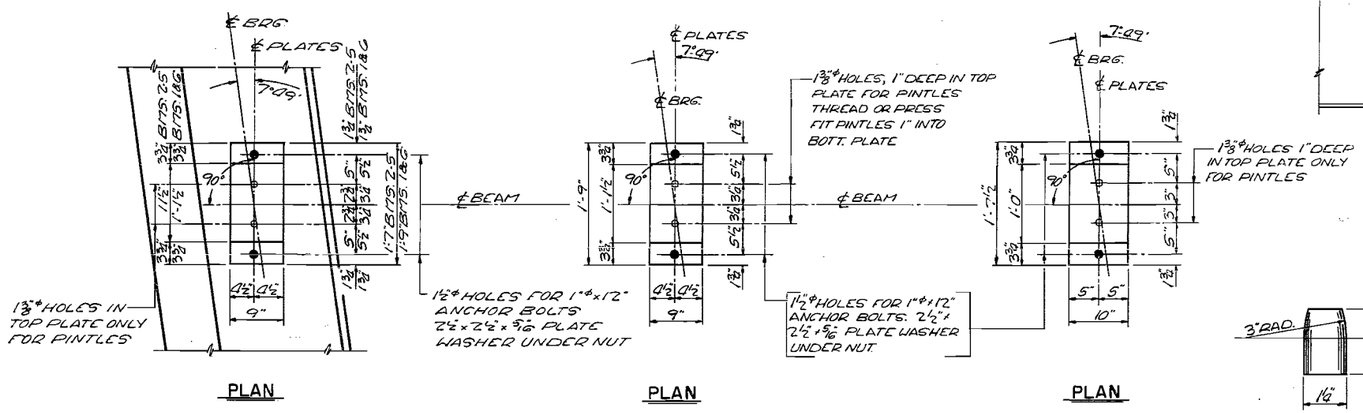
NOTE: SEE DETAILS AT PIERS FOR RIVET SPACING IN THE BEAMS FOR THE INTERMEDIATE DIAPHRAGMS D1 & D3.

INTERMEDIATE DIAPHRAGMS D_3

45 REQ'D.

INTERMEDIATE DIAPHRAGMS D_1

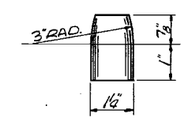
10 REQ'D.



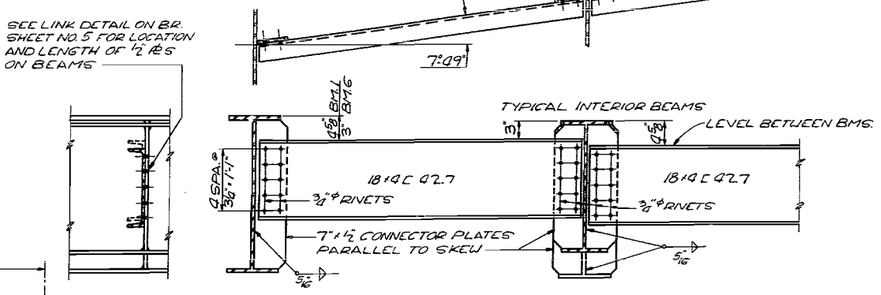
PLAN

PLAN

PLAN

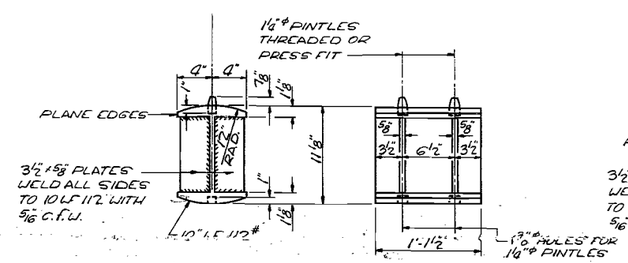


DETAIL OF PINTLE

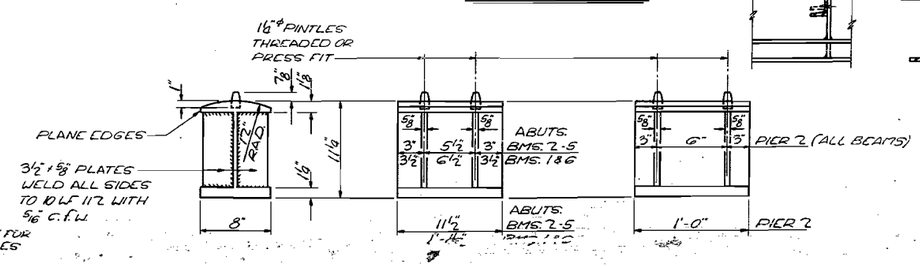


LINK DIAPHRAGMS D_2

20 REQ'D.



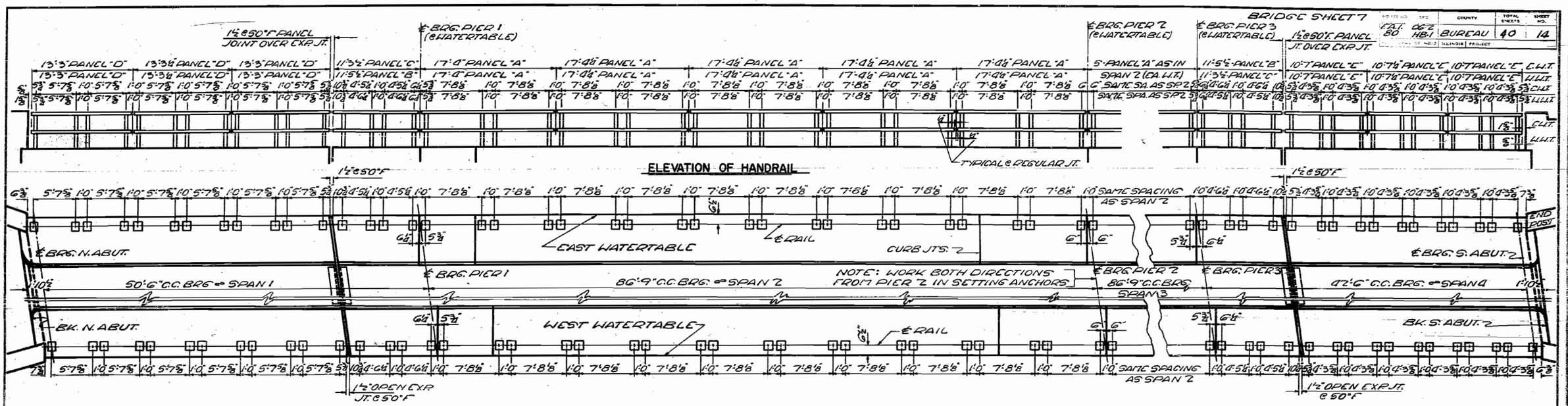
DETAIL OF BEARING AT PIERS 1 & 3



DETAIL OF BEARING AT ABUTMENTS AND PIER 2

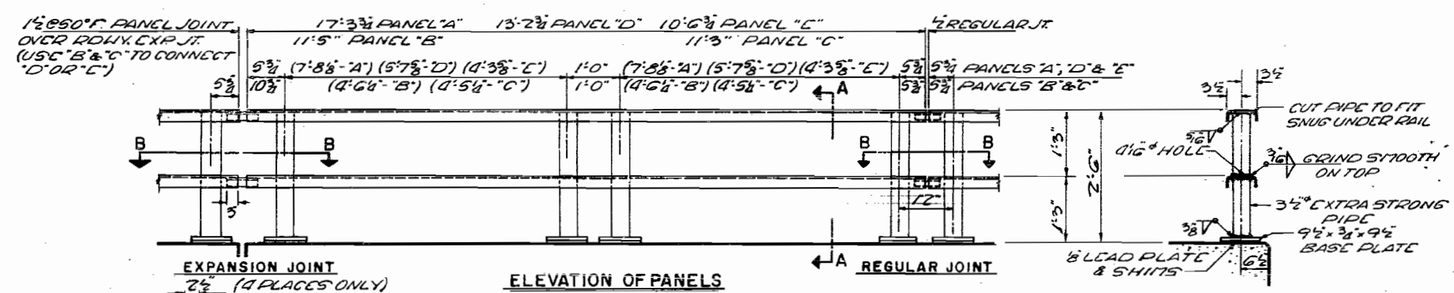
STRUCTURAL STEEL (BEARINGS & DIAPHS)
F.A.I. RTE. 80 SEC. 06-2 HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILL.
STA. 475+09.50 F.A.I. 80

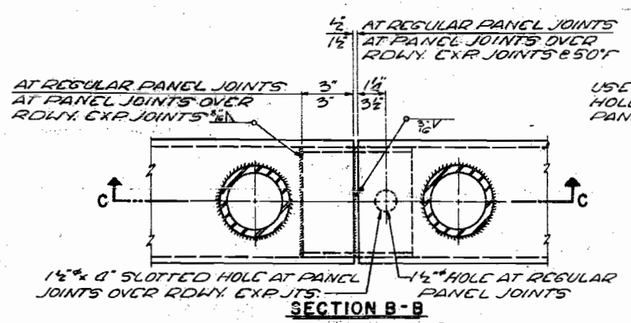
BRIDGE SHEET 7				
FAI. 80	SEC. 06-2 HB-1	COUNTY BUREAU	TOTAL SHEETS 40	SHEET NO. 14

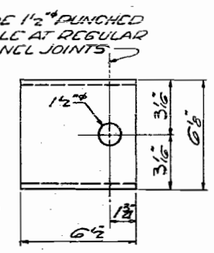


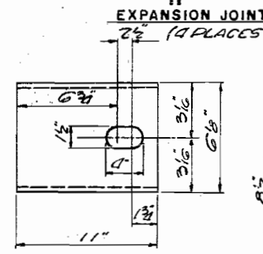
NOTES:

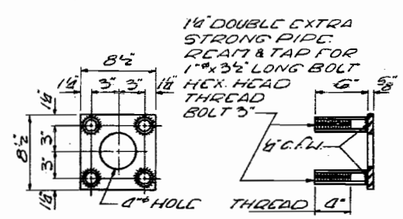
DIMENSIONS FOR RAIL SPACING MEASURED ALONG ℄ RAIL 6½" INSIDE AND PARALLEL TO CURVED WATERTABLE.

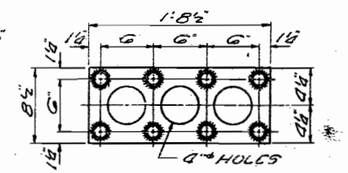










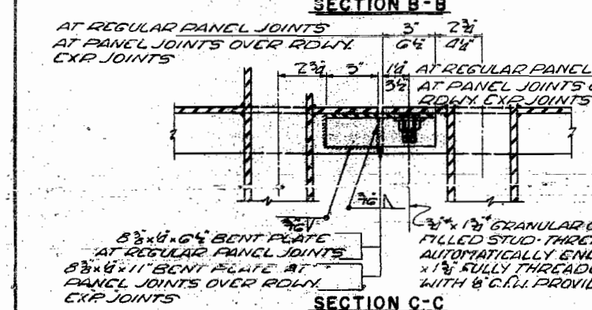


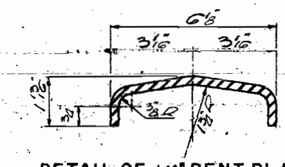
GENERAL NOTES:

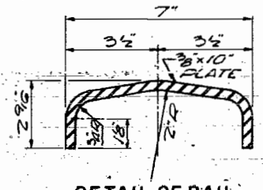
AFTER ERECTION ALL BOLTS AND WASHERS SHALL BE SPOT PAINTED WITH ONE COAT OF RED LEAD PAINT AND TWO COATS OF ALUMINUM PAINT. PROVIDE 1-⅛" AND 2-1/16" SHIMS FOR 50% OF THE POSTS.

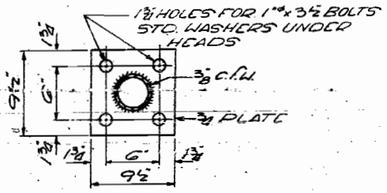
BILL OF MATERIAL

ITEM	UNIT	QUANT.
METAL HANDRAIL	LIN. FT.	536





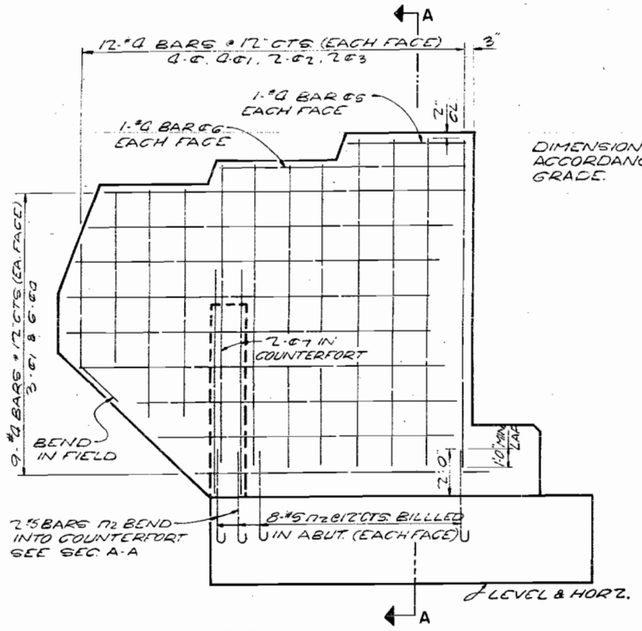




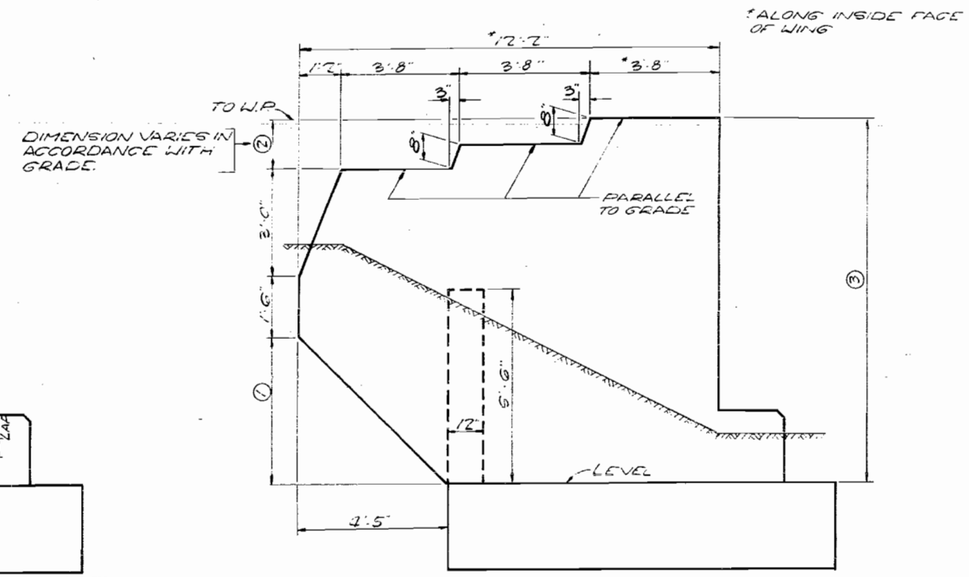
HANDRAIL DETAILS
F.A.I. RTE. 80 SEC. 06-2HB1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILL.
STA. 975+09.54 F.A.I. 80

SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 80 06-2 HB-1	BUREAU	40	15
ROAD DIST. NO. 7 ILLINOIS	PROJECT		

BRIDGE SHEET 8



ELEVATION

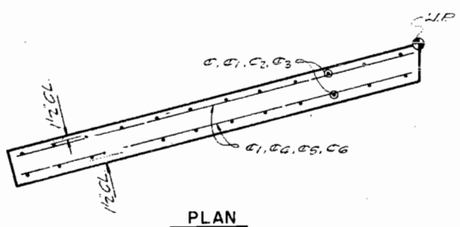


ELEVATION

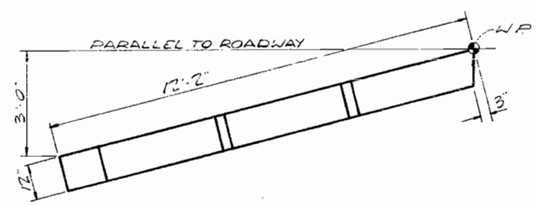
TABLE FOR END POST DIMENSIONS

END POST	DIM. ①	②	③	C.Y. x CONC C.Y. YDS.
A	5'-1"	1'-2 3/4"	10'-9 3/4"	4.3
B	4'-5 1/4"	1'-2 3/4"	10'-2"	4.1
C	4'-9 5/8"	1'-6 3/8"	10'-10"	4.3
D	4'-1 1/4"	1'-6 3/8"	10'-1 3/8"	4.0
			TOTAL	16.7

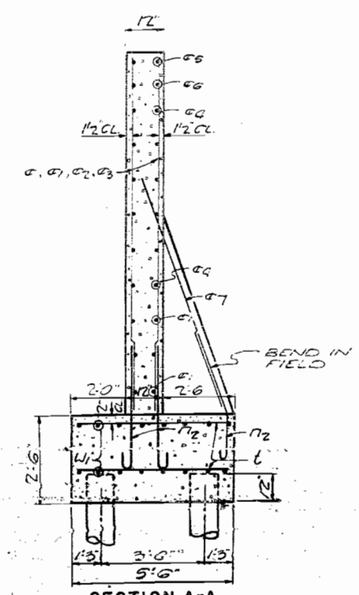
SEE ABUTMENT SHEETS FOR END POST DESIGNATION



PLAN



PLAN



SECTION A-A

BILL OF MATERIAL (4 POSTS)

BAR	NO.	SIZE	LENGTH	SHAPE	
c	32	#9	9'-3"	—	
c1	56	#9	8'-6"	—	
c2	16	#9	6'-6"	—	
c3	16	#9	5'-0"	—	
c4	48	#9	10'-6"	—	
c5	8	#9	3'-6"	—	
c6	8	#9	7'-0"	—	
c7	8	#5	7'-0"	—	
CLASS X CONCRETE C.Y. YDS.				16.7	*
REINFORCEMENT BARS LBS.				1090	*

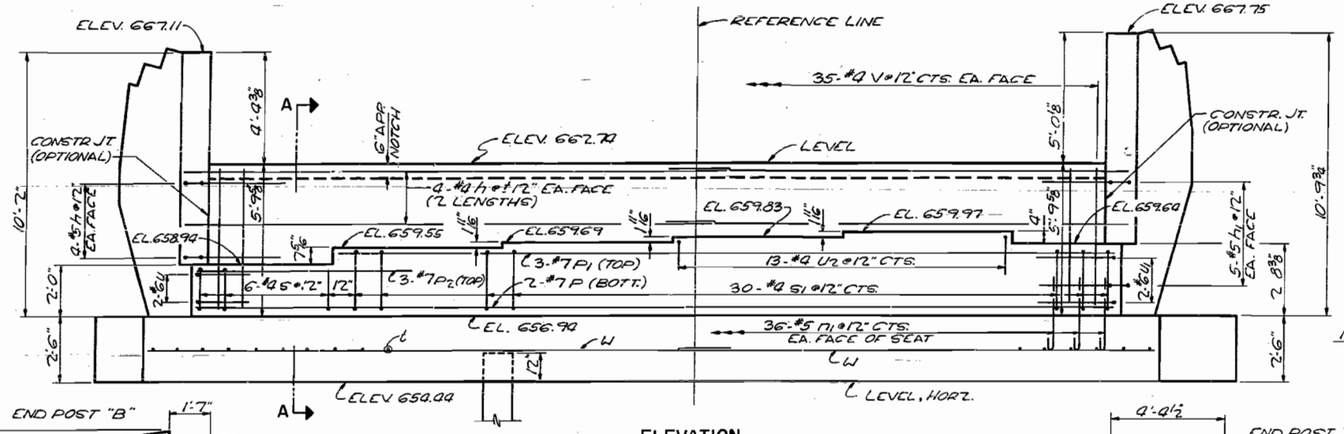
* THESE QUANTITIES INCLUDED WITH TOTALS SHOWN ON ABUT. SHEETS

END POST DETAILS
F.A.I. RTE. 80 SEC. 06-2 HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILL.
STA. 475+09.54 F.A.I. 80

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06 2HB1	BUREAU	40	16

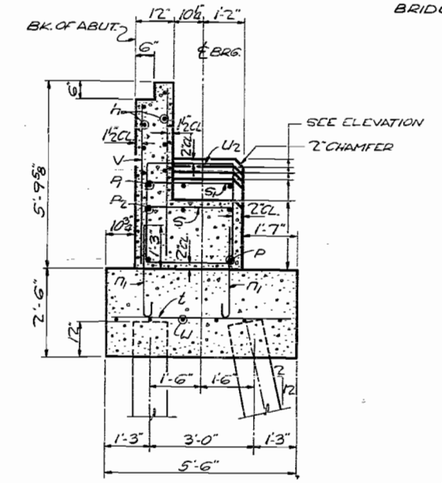
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT

BRIDGE SHEET 9

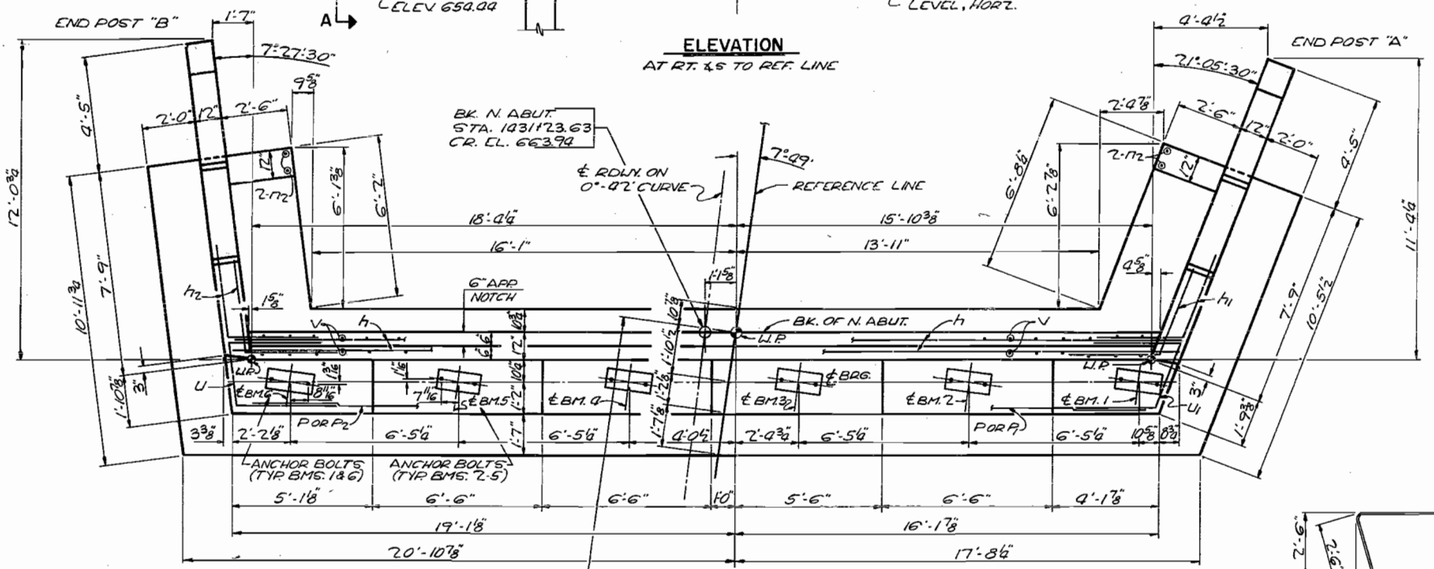


ELEVATION
AT RT. ∠S TO REF. LINE

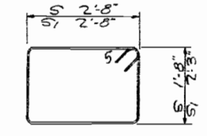
NOTE: FOR DETAILS OF END POST SEE BRIDGE SHEET 8



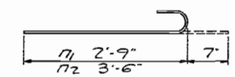
SECTION A-A



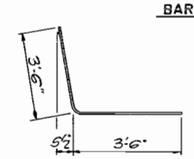
TOP PLAN
SCALE: 3/8" = 1'-0



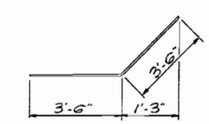
BARS S & S1



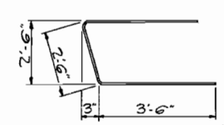
BARS n1 & n2



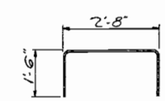
BAR h2



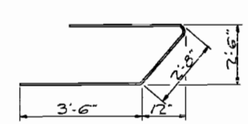
BAR h1



BAR U



BAR U2



BAR U1

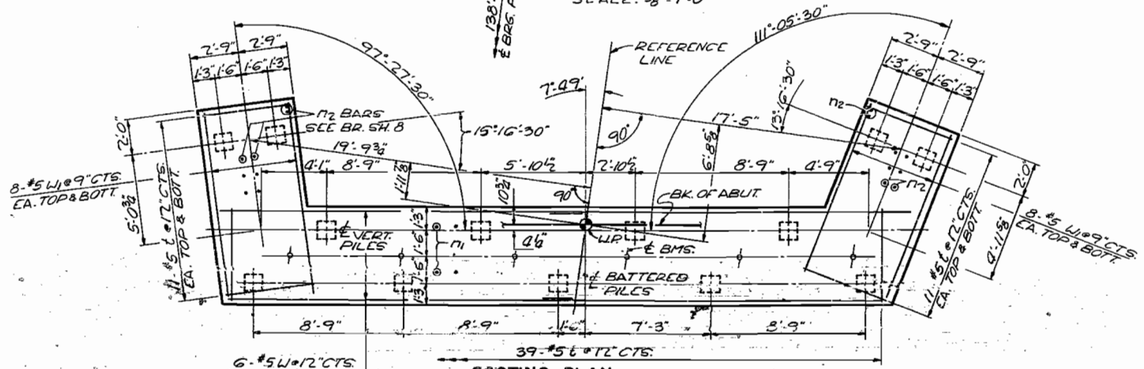
BAR LIST

BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#4	18'-6"	
h1	10	#5	7'-0"	
h2	8	#5	7'-0"	
n1	72	#5	3'-4"	
n2	36	#5	4'-1"	
P	2	#7	35'-0"	
P1	3	#7	29'-3"	
P2	3	#7	8'-0"	
S	6	#4	9'-6"	
S1	30	#4	10'-8"	
t	83	#5	5'-3"	
U	2	#6	9'-6"	
U1	2	#6	9'-8"	
U2	13	#4	5'-8"	
V	70	#4	5'-2"	
W	12	#5	20'-6"	
W1	32	#5	10'-6"	

BILL OF MATERIAL

ITEM	UNIT	QUANT.
CLASS X CONCRETE	CU. YDS.	48.5
REINFORCEMENT BARS	LBS.	3310
CONCRETE PILES	LIN. FT.	520

NOTE: BILL OF MATERIAL INCLUDES REINFORCEMENT BARS AND CLASS X CONCRETE FOR END POSTS



FOOTING PLAN
(SHOWING PILE SPACING AND REINF.)
SCALE: 1/4" = 1'-0"

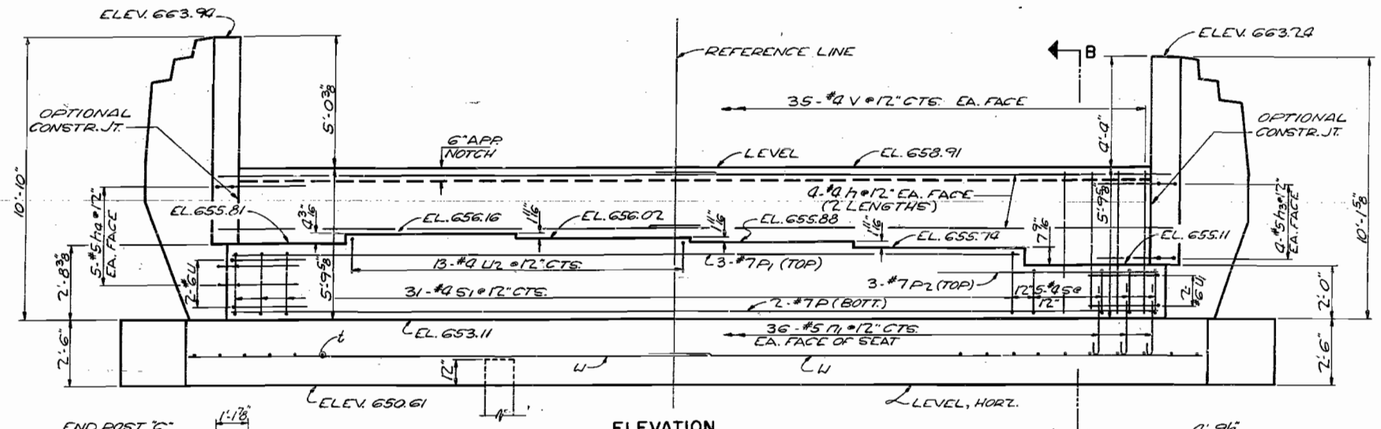
PILE DATA

TYPE:	CONCRETE
MINIMUM CAPACITY:	30 TONS
EST. LENGTH:	40' ±
NO. REQ'D:	13

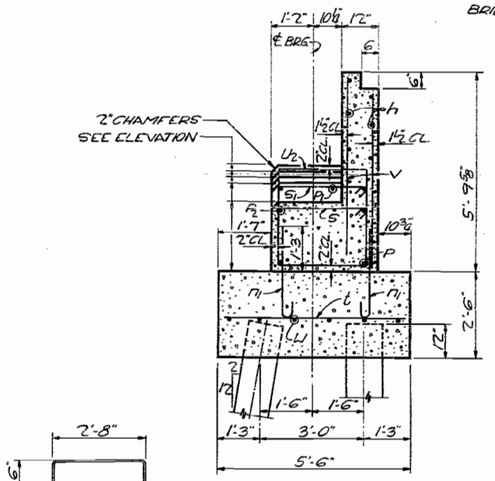
NORTH ABUTMENT
F.A.I. RTE. 80 - SEC. 06-2 HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILLINOIS
STA. 475+09.54 F.A.I. 80

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06 2HB1	BUREAU	40	17
FED. ROAD DIST. NO. 1	ILLINOIS	PROJECT		

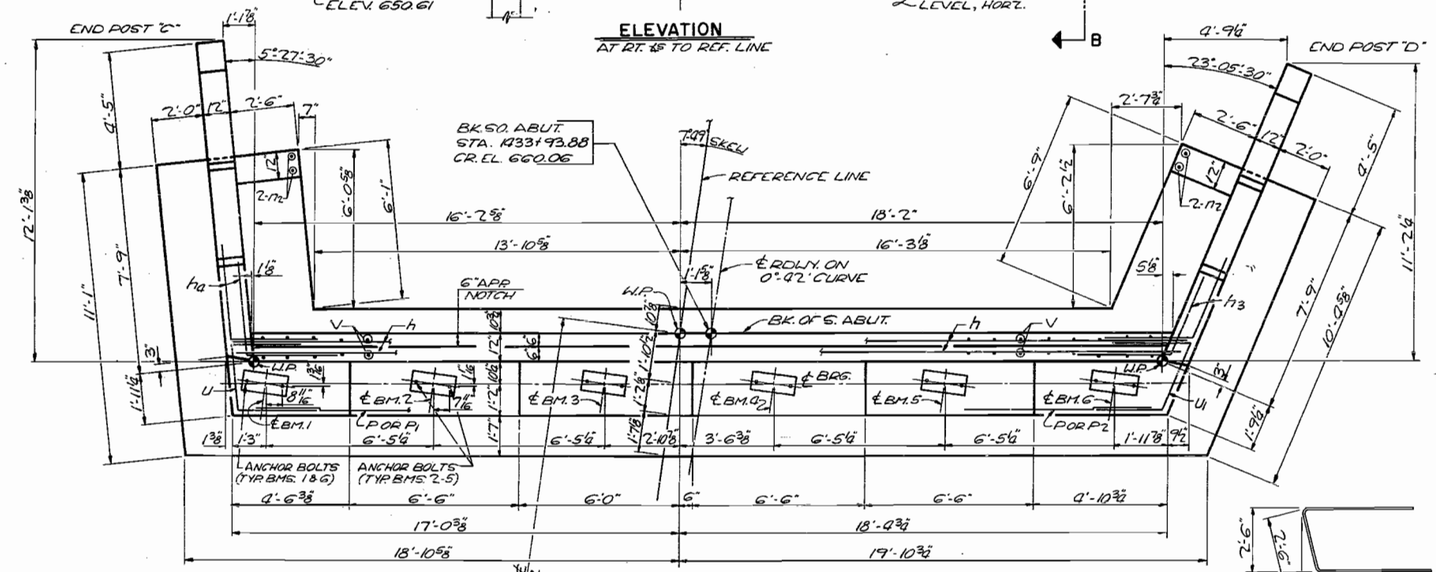
BRIDGE SHEET 10



ELEVATION
AT RT. ∠s TO REF. LINE

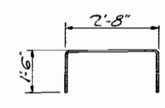


SECTION B-B

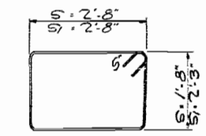


TOP PLAN
SCALE: ⅜" = 1'-0"

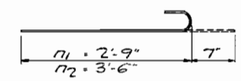
NOTE: FOR DETAILS OF END POST SEE BRIDGE SHEET 8



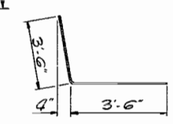
BAR U_2



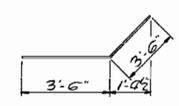
BARS S & S_1



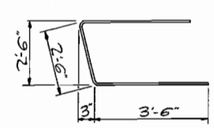
BARS M_1 & M_2



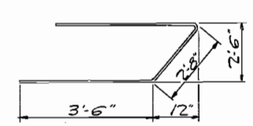
BAR h_4



BAR h_3



BAR U



BAR U_1

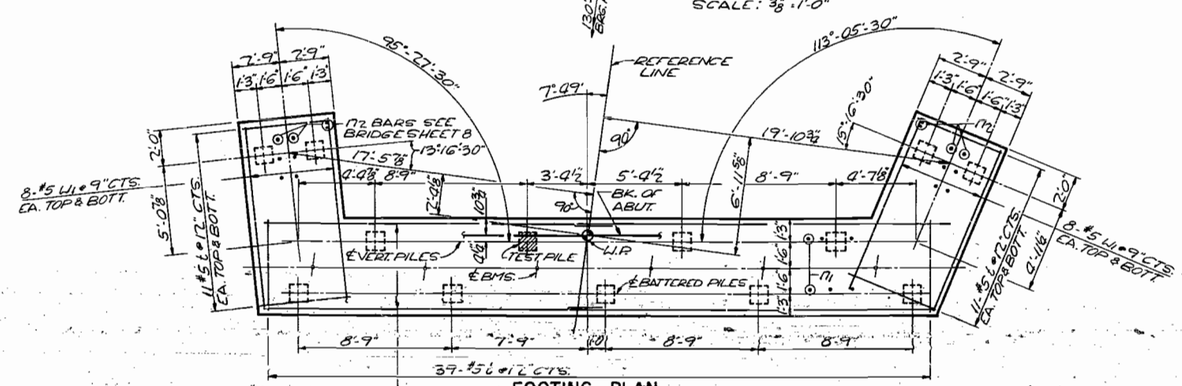
BAR LIST

BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#4	18'-6"	—
h_3	8	#5	7'-0"	⌟
h_4	10	#5	7'-0"	∟
M_1	72	#5	3'-4"	⊃
M_2	36	#5	4'-1"	⊃
P	2	#7	35'-0"	—
P_1	3	#7	29'-3"	—
P_2	3	#7	8'-0"	—
S	5	#4	9'-6"	⊡
S_1	31	#4	10'-8"	⊡
t	83	#5	5'-3"	—
U	2	#6	9'-6"	⊏
U_1	2	#6	9'-8"	⊐
U_2	13	#4	5'-8"	⊓
V	70	#4	5'-2"	—
W	12	#5	20'-6"	—
W_1	32	#5	10'-6"	—

BILL OF MATERIAL

ITEM	UNIT	QUANT.
CLASS X CONCRETE	CU. YDS.	48.5
REINFORCEMENT BARS	LBS.	3310
CONCRETE PILES	LIN. FT.	480
TEST PILE, CONCRETE	EA.	1

NOTE: BILL OF MATERIAL INCLUDES REINFORCEMENT BARS AND CLASS X CONCRETE FOR END POSTS



FOOTING PLAN
(SHOWING PILE SPACING AND REINF.)
SCALE: ¼" = 1'-0"

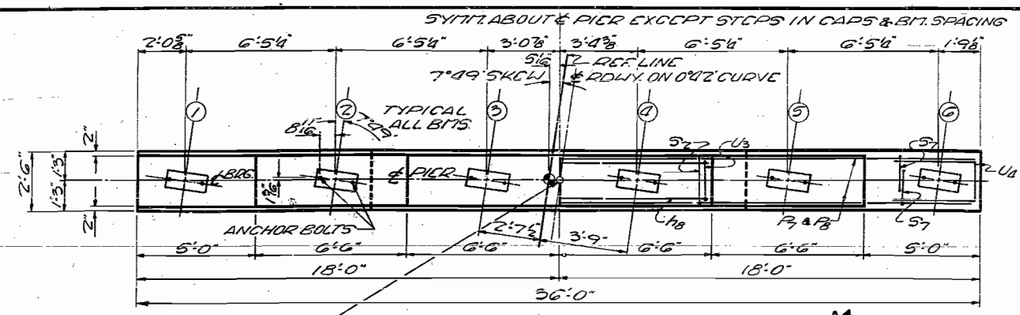
PILE DATA

TYPE: CONCRETE
MINIMUM CAPACITY: 30 TONS
EST. LENGTH: 40 L.F.
NO. REQ'D: 12 + 1 TEST PILE

SOUTH ABUTMENT
F.A.I. RTE. 80 SEC. 06-2HB-1
C.D.I. RTE. 00 OVER F.A.I. RT. 80
BUREAU COUNTY, ILLINOIS
STA. 975+09.59 F.A.I. 80

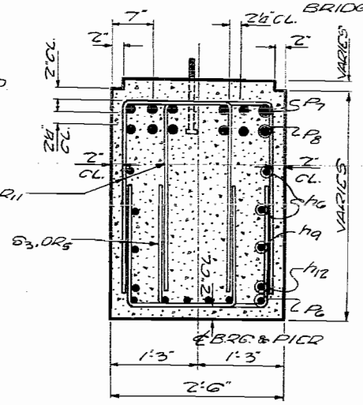
SECTION NO.	SEQ.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	062 HB-1	BUREAU	40	18
F.A.I. DIST. NO. 1	ILLINOIS	PROJECT		

BRIDGE SHEET 11

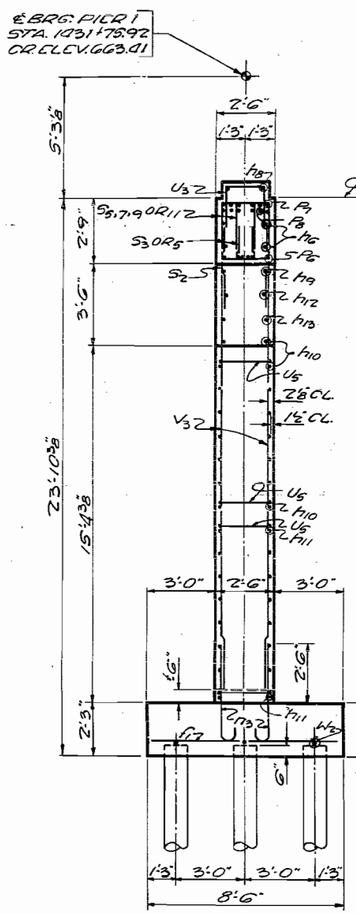


TOP PLAN
SCALE 1"=3'-0"

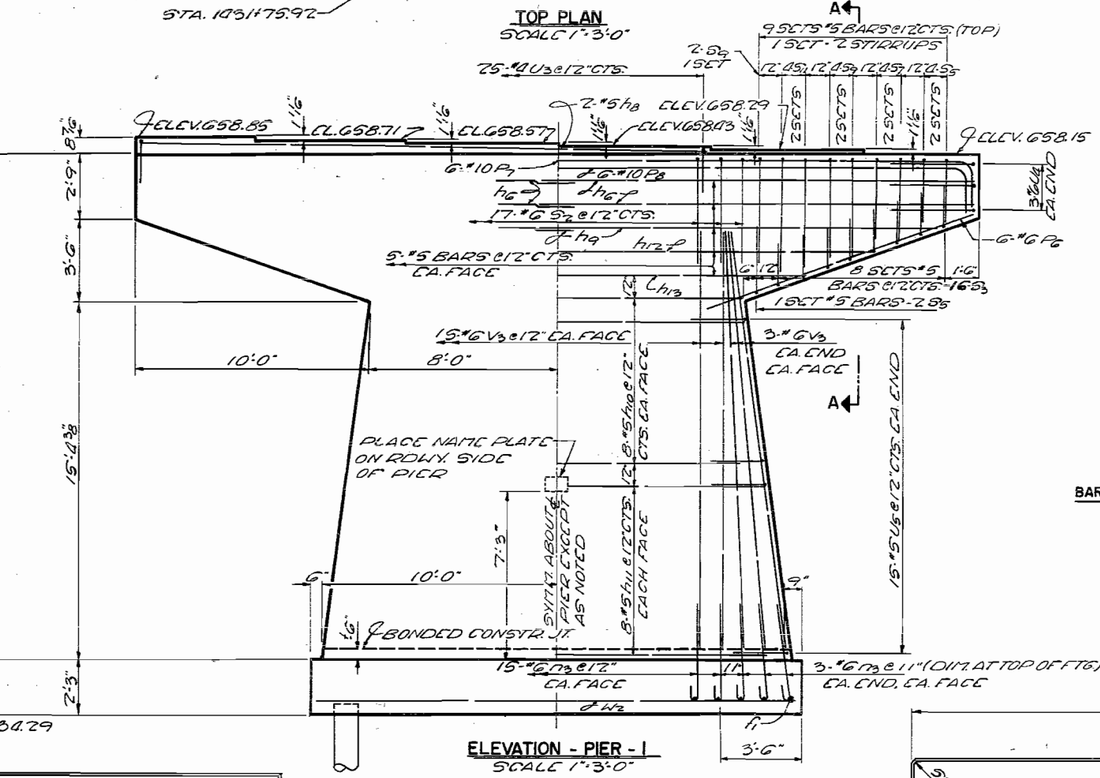
NOTE: ALL EDGES SHALL HAVE STANDARD ¾" CHAMFERS EXCEPT FOOTINGS.



SECTION A-A

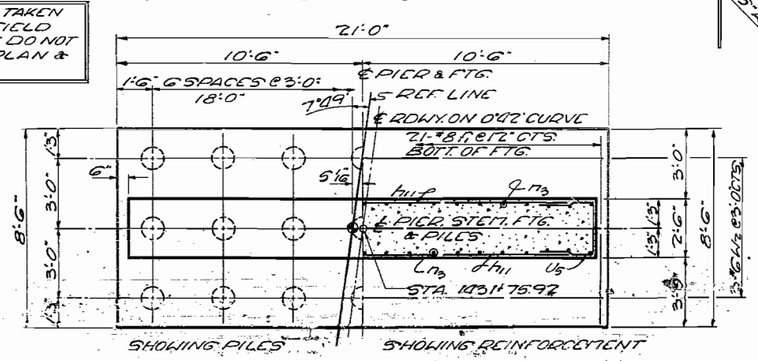


END VIEW
SCALE 1"=3'-0"

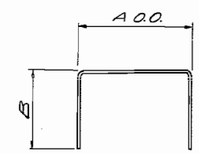


ELEVATION - PIER - 1
SCALE 1"=3'-0"

NOTE: CARE SHOULD BE TAKEN IN LAYING OUT PIER IN FIELD AS ℄ PIER & REF. LINE DO NOT COINCIDE. SEE TOP PLAN & FOOTING PLAN



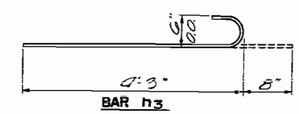
FOOTING PLAN
SCALE 1"=3'-0"



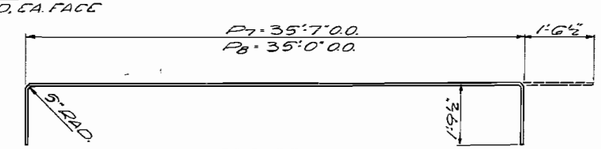
A & B DIMENSIONS

BAR	A	B
S_2	2'-2"	4'-9"
S_3	1'-6½"	1'-9"
S_5	1'-6½"	2'-9"
S_7	1'-6½"	3'-6"
S_9	1'-6½"	4'-3"
S_{11}	1'-6½"	5'-0"

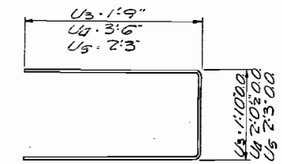
BARS S_2, S_3, S_5, S_7, S_9, & S_{11}



BAR n_3



BARS P_7 & P_8



BARS U_3, U_4 & U_5

BILL OF MATERIAL

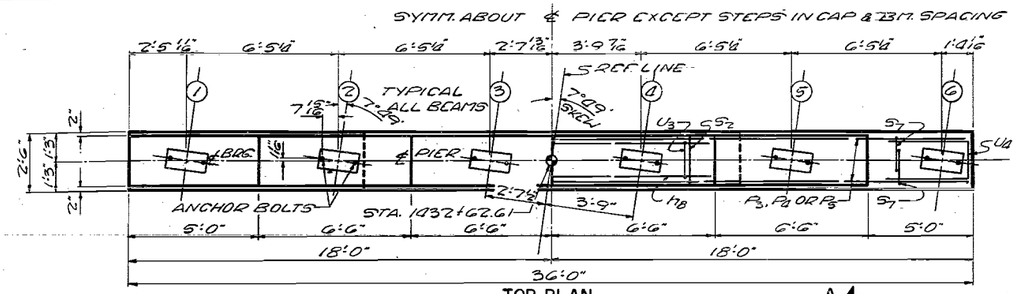
BAR	NO	SIZE	LENGTH	SHAPE
f1	21	#8	8'-3"	—
h_6	8	#5	18'-6"	—
h_8	2	#5	28'-3"	—
h_9	4	#5	17'-0"	—
h_{10}	16	#5	15'-9"	—
h_{11}	16	#5	17'-9"	—
h_{12}	2	#5	27'-3"	—
h_{13}	2	#5	21'-3"	—
n_3	42	#6	4'-11"	⊃
P_6	12	#6	12'-0"	—
P_7	6	#10	38'-8"	⊓
P_8	6	#10	38'-1"	⊓
S_2	17	#6	11'-8"	⊓
S_3	32	#5	5'-1"	⊓
S_5	12	#5	7'-1"	⊓
S_7	8	#5	8'-7"	⊓
S_9	12	#5	10'-1"	⊓
S_{11}	8	#5	11'-7"	⊓
U_3	25	#4	5'-4"	⊐
U_4	6	#6	9'-1"	⊐
U_5	30	#5	6'-9"	⊐
V_3	42	#6	17'-9"	—
W_2	3	#6	20'-9"	—
CLASS X CONCRETE CU.YD.				58.8
REINFORCEMENT BARS LBS.				6350
CREOSOTED PILES LIN. FT.				526
CLASS A EXCAV. FOR STR. CY.				58
TEST PILE (TIMBER) EA.				1

PILE DATA
TYPE: CREOSOTED TIMBER
MIN. CAPACITY: 20 TONS
EST. LENGTH: 26 FT.
NO. REQ'D: 21
MIN. PENETRATION: 612.0
TEST PILE: DRIVE ONE TIMBER TEST PILE IN VICINITY OF PIER 1

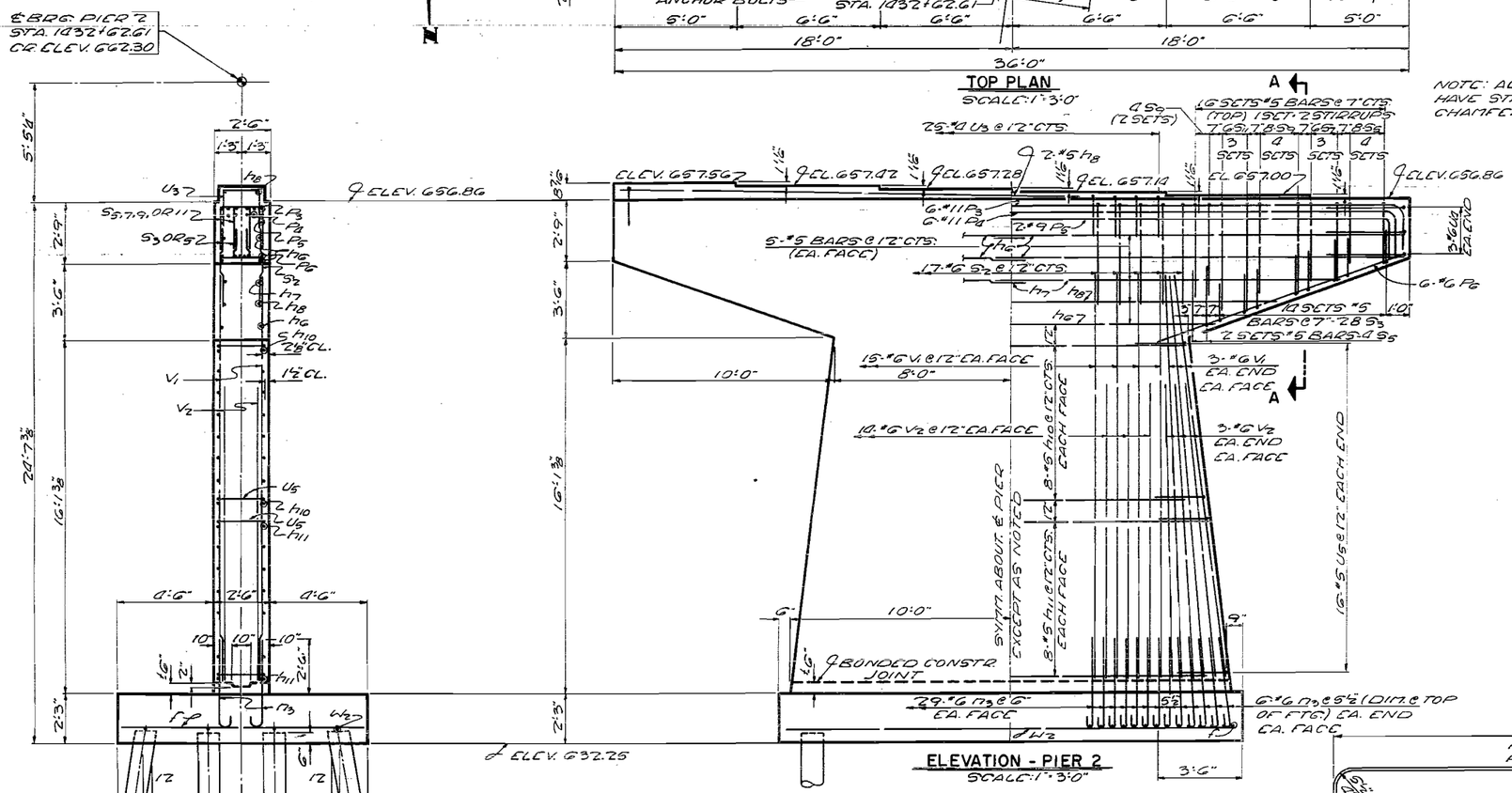
PIER 1
F.A.I. RTE. 80 SEC. 062HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILL.
STA. 475+09.54 F.A.I. 80

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06 2HB.1	BUREAU	40	19
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

BRIDGE SHEET 12

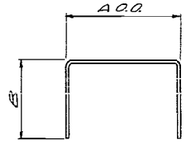


TOP PLAN
SCALE: 1" = 3'-0"



END VIEW
SCALE: 1" = 3'-0"

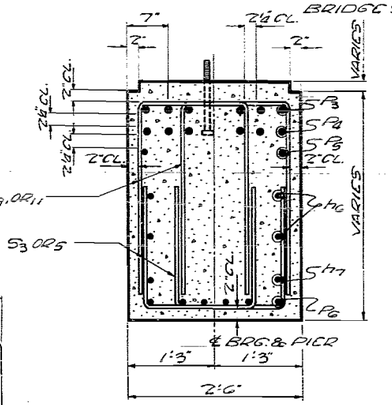
ELEVATION - PIER 2
SCALE: 1" = 3'-0"



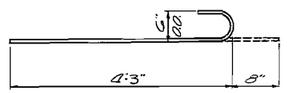
A & B DIMENSIONS

BAR	A	B
S_2	2'-2"	0'-9"
S_3	1'-6½"	1'-9"
S_5	1'-6½"	2'-9"
S_7	1'-6½"	3'-6"
S_9	1'-6½"	4'-3"
S_{11}	1'-6½"	5'-0"

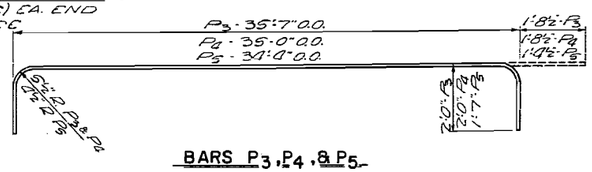
BARS $S_2, S_3, S_5, S_7, S_9, S_{11}$



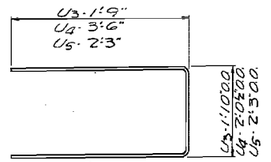
SECTION A-A



BAR n_3



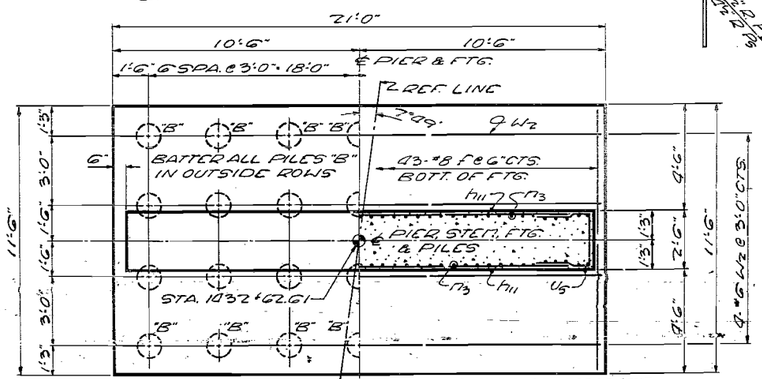
BARS P_3, P_4 & P_5



BARS U_3, U_4 & U_5

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
F	43	#8	11'-3"	—
h_6	10	#5	18'-6"	—
h_7	9	#5	15'-6"	—
h_8	4	#5	24'-3"	—
h_{10}	16	#5	16'-9"	—
h_{11}	16	#5	17'-9"	—
n_3	82	#6	4'-11"	⊃
P_3	6	#11	39'-0"	⊓
P_4	6	#11	38'-5"	⊓
P_5	2	#9	37'-1"	⊓
P_6	12	#6	12'-0"	—
S_2	17	#6	11'-8"	⊓
S_3	56	#5	5'-1"	⊓
S_5	24	#5	7'-1"	⊓
S_7	12	#5	8'-7"	⊓
S_9	24	#5	10'-1"	⊓
S_{11}	12	#5	11'-7"	⊓
U_3	25	#4	5'-4"	⊐
U_4	6	#6	9'-1"	⊐
U_5	32	#5	6'-9"	⊐
V_1	42	#6	18'-6"	—
V_2	40	#6	13'-6"	—
W_2	4	#6	20'-9"	—
CLASS X CONCRETE			CU.YD.	652
REINFORCEMENT BARS LBS.				9,530
CREOSOTED PILES LIN.FT.				588
CLASS A EXCAV. FOR STR. CY.				65



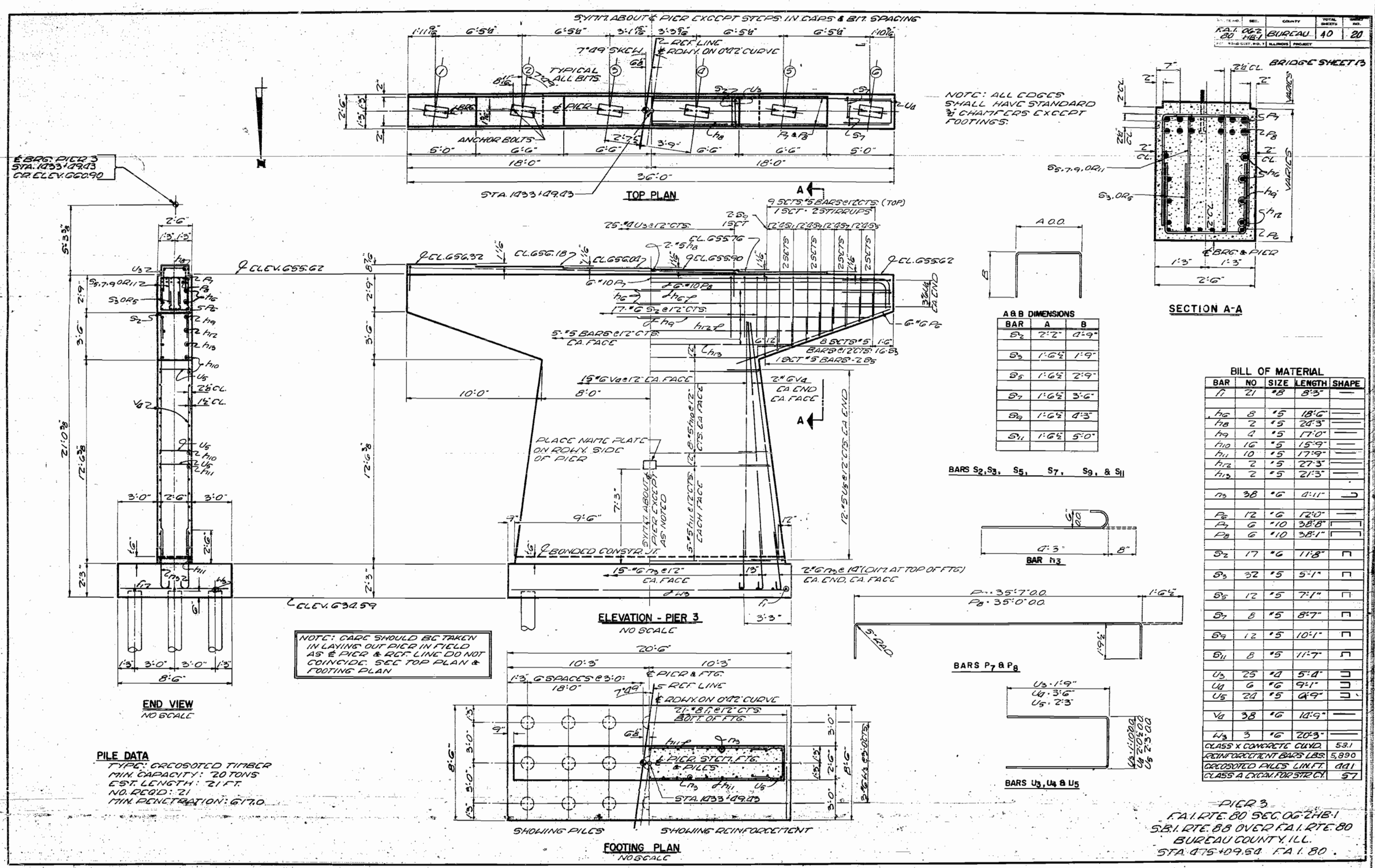
SHOWING PILES — FOOTING PLAN — SHOWING REINFORCEMENT
SCALE: 1" = 3'-0"

PILE DATA
TYPE: CREOSOTED TIMBER
MIN. CAPACITY: 20 TONS
EST. LENGTH: 21 FT.
NO. REQ'D.: 28
MIN. PENETRATION: EL. 615.0

PIER 2
F.A.I. RTE. 80 SEC. 06-2HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILL.
STA. 475+09.54 F.A.I. 80

RT. NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2 HB-1	BUREAU	40	20
F.A.P. RTE.	DIST. NO. 1	ILLINOIS	PROJECT	

BRIDGE SHEET 13



℄ BRG. PIER 3
STA. 1433+09.03
CR. ELEV. 660.90

A & B DIMENSIONS

BAR	A	B
S_2	2'-2"	0'-9"
S_3	1'-6½"	1'-9"
S_5	1'-6½"	2'-9"
S_7	1'-6½"	3'-6"
S_9	1'-6½"	4'-3"
S_{11}	1'-6½"	5'-0"

BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
n_1	21	#8	8'-3"	—
h_6	8	#5	18'-6"	—
h_8	2	#5	24'-3"	—
h_9	4	#5	17'-0"	—
h_{10}	16	#5	15'-9"	—
h_{11}	10	#5	17'-9"	—
h_{12}	2	#5	27'-3"	—
h_{13}	2	#5	21'-3"	—
n_3	38	#6	4'-11"	⊃
P_6	12	#6	12'-0"	—
P_7	6	#10	38'-8"	⊓
P_8	6	#10	38'-1"	⊓
S_2	17	#6	11'-8"	⊓
S_3	32	#5	5'-1"	⊓
S_5	12	#5	7'-1"	⊓
S_7	8	#5	8'-7"	⊓
S_9	12	#5	10'-1"	⊓
S_{11}	8	#5	11'-7"	⊓
U_3	25	#4	5'-4"	⊃
U_4	6	#6	9'-1"	⊃
U_5	24	#5	6'-9"	⊃
V_4	38	#6	14'-9"	—
W_3	3	#6	20'-3"	—
CLASS X CONCRETE CU.YD.				53.1
REINFORCEMENT BARS LBS.				5,890
CREOSOTED PILES LIN. FT.				441
CLASS A EXCAV. FOR STR. CY.				57

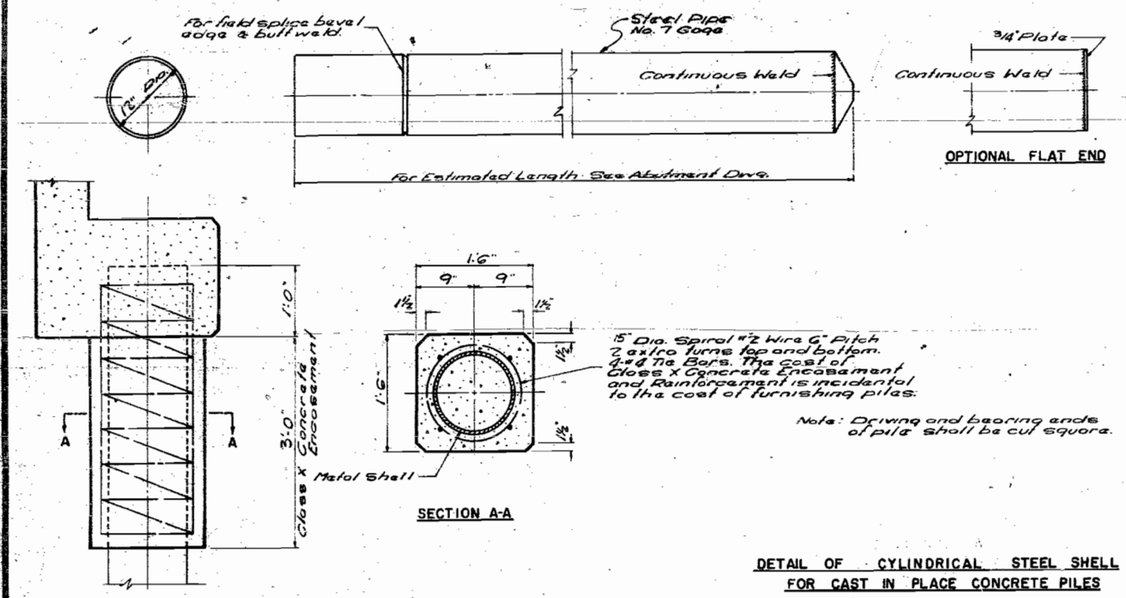
PILE DATA

TYPE: CREOSOTED TIMBER
MIN. CAPACITY: 70 TONS
EST. LENGTH: 21 FT.
NO. REQ'D: 21
MIN. PENETRATION: 617.0

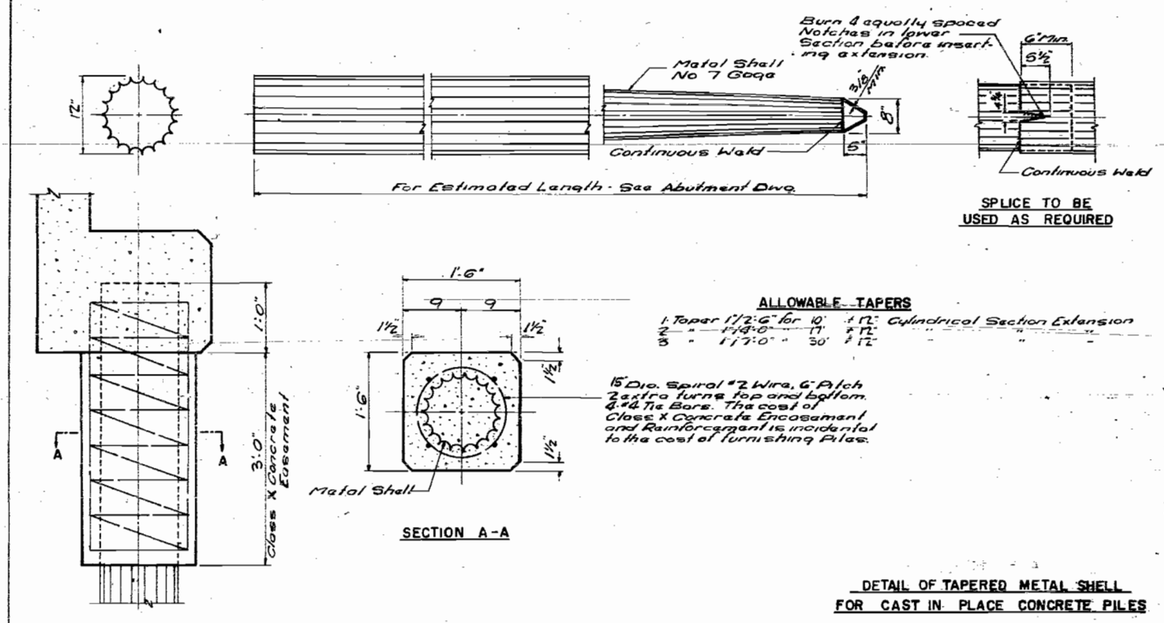
PIER 3
F.A.I. RTE. 80 SEC. 06-2HB-1
S.B.I. RTE. 88 OVER F.A.I. RTE. 80
BUREAU COUNTY, ILL.
STA. 475+09.50 F.A.I. 80.

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	06-2 HB.1	BUREAU	40	22
Fed. Road Dist. No. 7	Project			

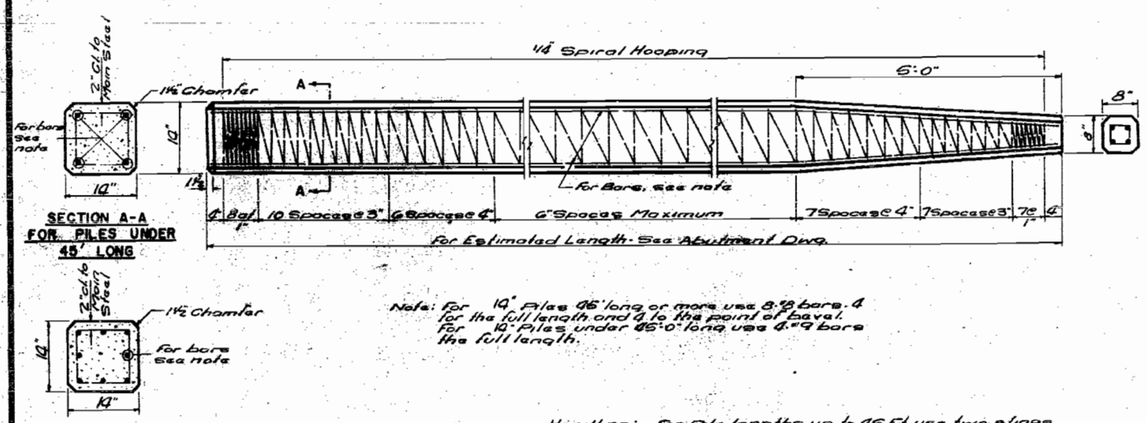
BRIDGE SHEET 15



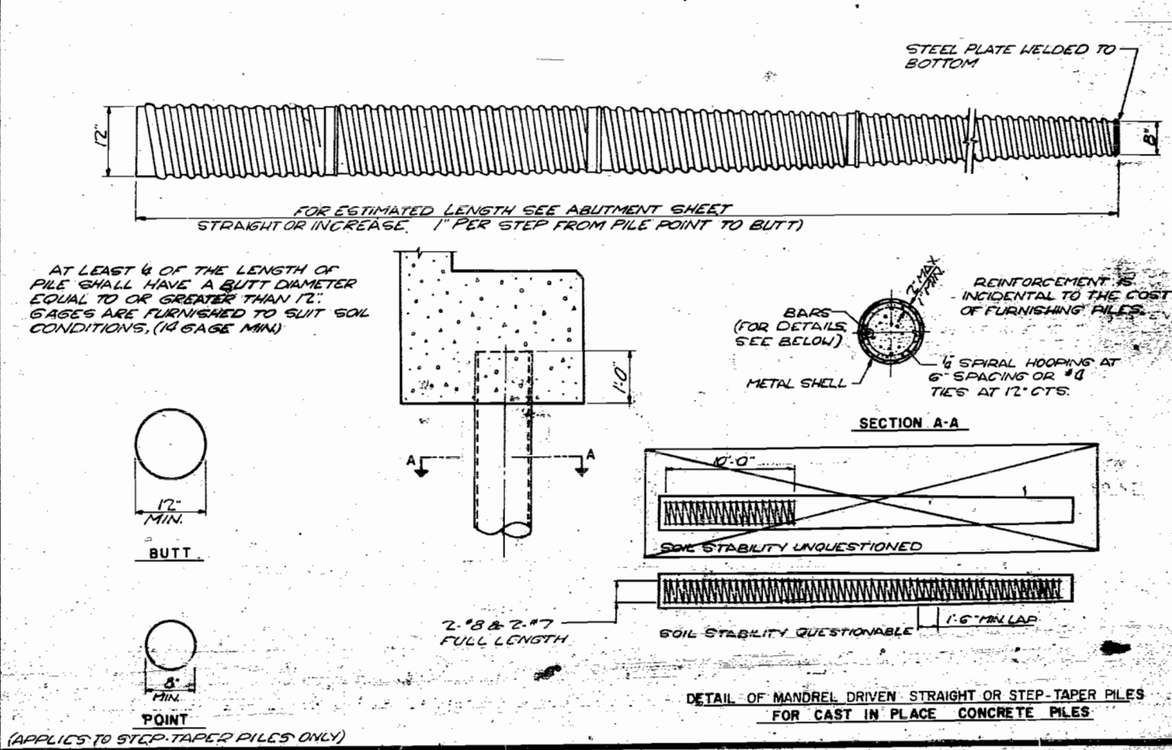
DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



DETAIL OF TAPERED METAL SHELL FOR CAST IN PLACE CONCRETE PILES

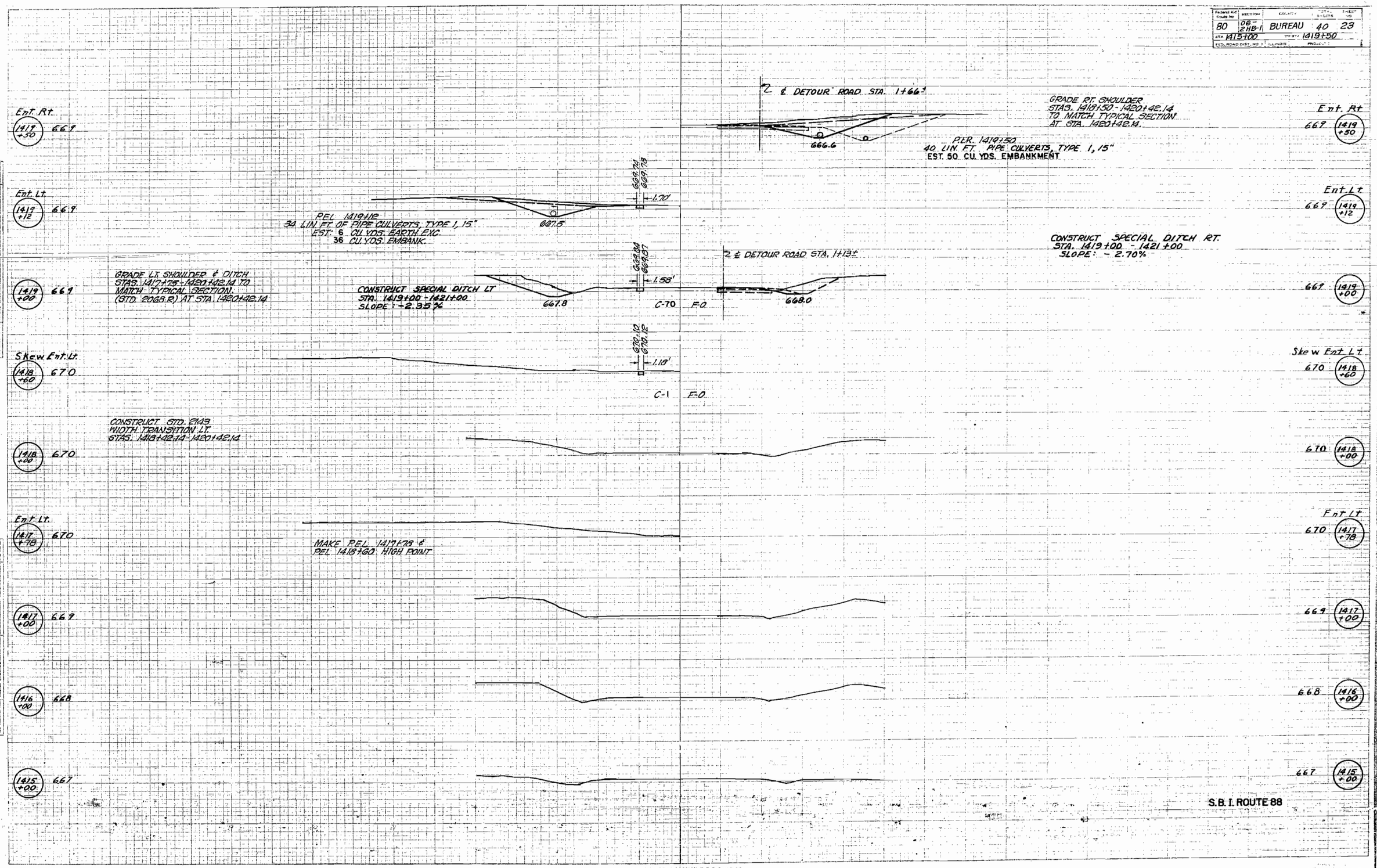


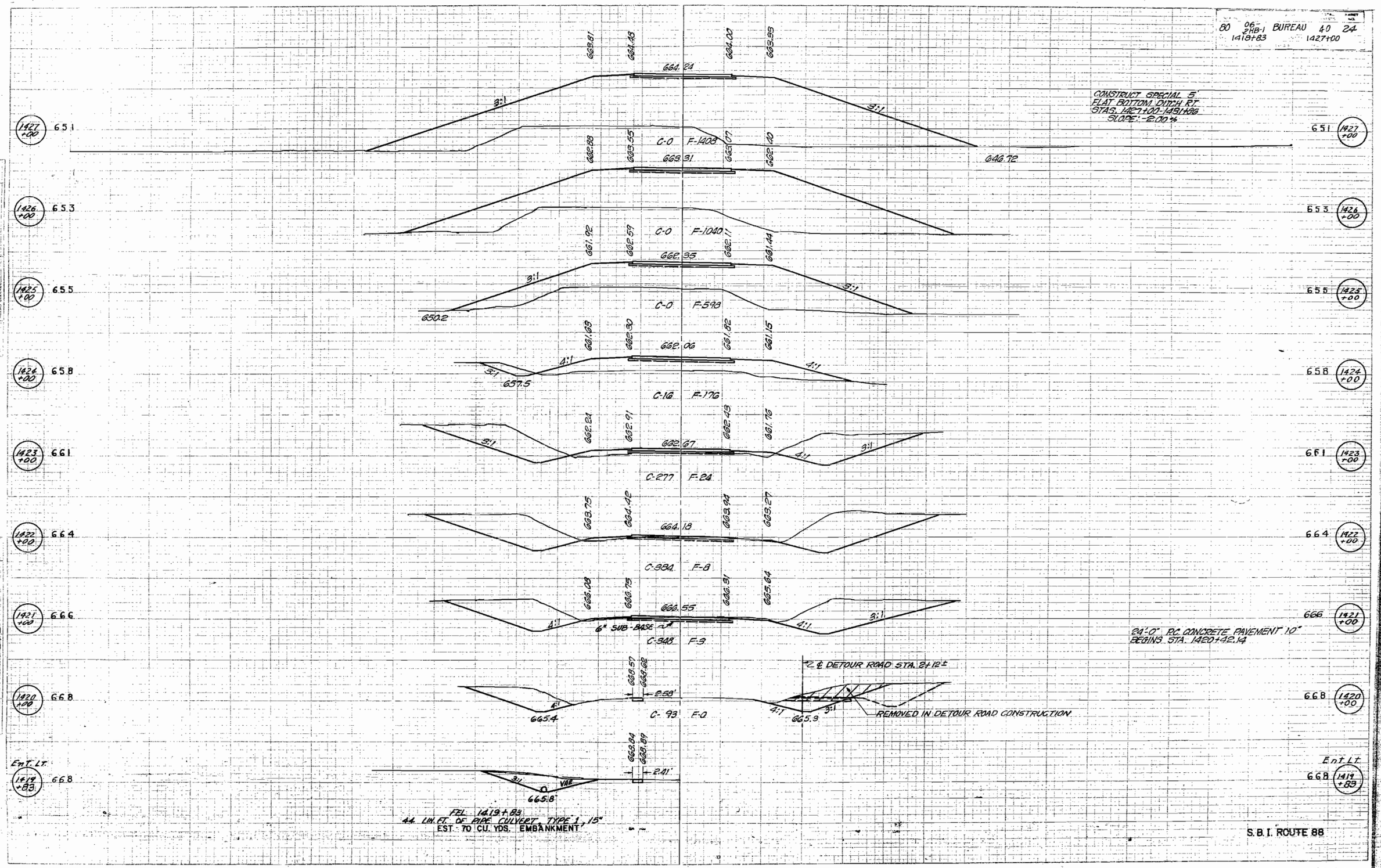
DETAIL OF PRECAST CONCRETE PILES



DETAIL OF MANDREL DRIVEN STRAIGHT OR STEP-TAPER PILES FOR CAST IN PLACE CONCRETE PILES

Federal Aid Route No.	Section	County	Total Sheets	Sheet No.
80	06-2HB-1	BUREAU	40	23
Sta. 1415+00		To Sta. 1419+50		
F.A.I. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



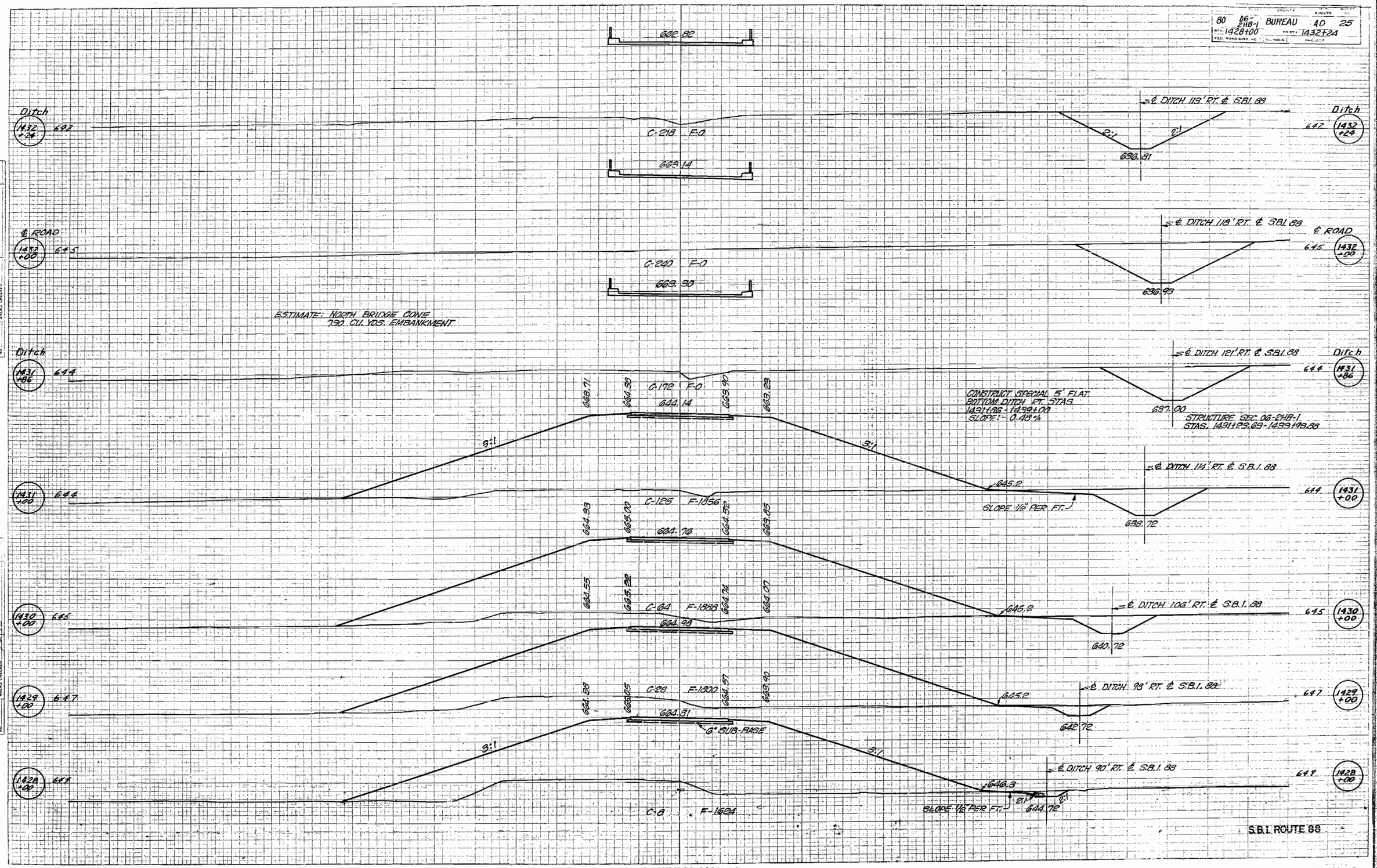

CONSTRUCT SPECIAL 5
FLAT BOTTOM DITCH RT.
STAS. 1427+00-1419+83
SLOPE: -2.00%
1427 +00 651
664.81 664.43 664.24 664.00 663.85
3:1
3:1
C-0 F-1408
662.88 663.55 663.31 663.07 662.40
646.72
1426 +00 653
661.92 662.59 662.35 662.11 661.44
C-0 F-1040
1425 +00 655
650.2
C-0 F-593
661.03 662.30 662.06 661.82 661.15
4:1
4:1
657.5
1424 +00 658
C-16 F-176
662.24 662.91 662.67 662.43 661.76
1423 +00 661
C-277 F-24
663.75 664.42 664.18 663.94 663.27
1422 +00 664
C-384 F-8
666.08 666.75 666.55 666.31 665.64
6" SUB-BASE
1421 +00 666
C-348 F-3
24'-0" P.C. CONCRETE PAVEMENT 10"
BEGINS STA. 1420+42.14
℄ DETOUR ROAD STA. 2+12±
665.57 665.32
2.58'
1420 +00 668
665.4
C-93 F-0
665.9
REMOVED IN DETOUR ROAD CONSTRUCTION
Ent. Lt.
665.84 665.89
2.41'
VAR.
1419 +83 668
665.8
Ent. Lt.
FEL 1419+83
44 LIN. FT. OF PIPE CULVERT TYPE 1, 15"
EST. 70 CU. YDS. EMBANKMENT

S.B.I. ROUTE 88

COUNTY	SHEETS	SHEET NO.
80 06-2HB-1 BUREAU	40	25

STA. 1428+00 TO STA. 1432+24

F.A.P. ROAD DIST. NO. ILLINOIS PROJECT



FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

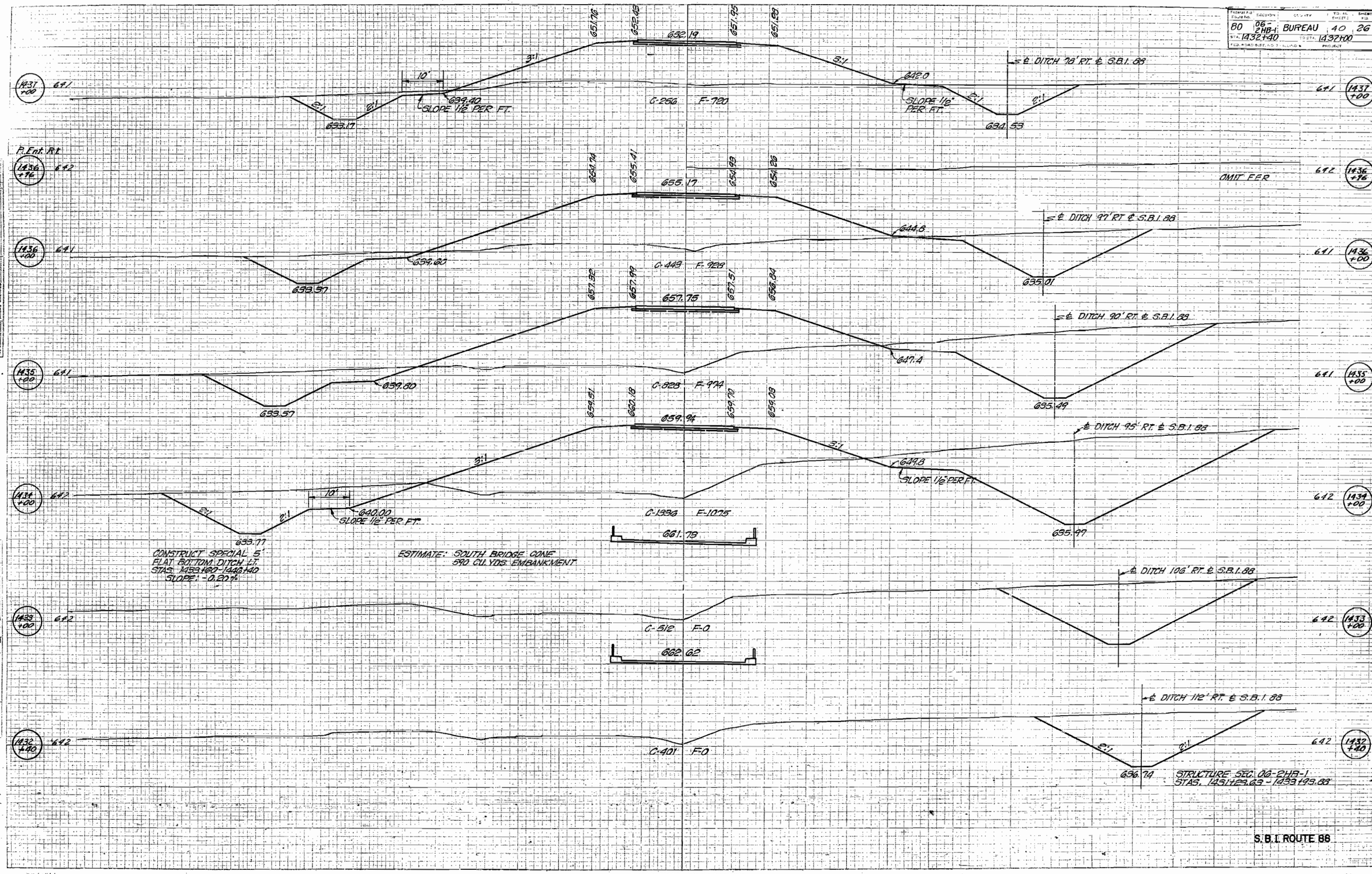
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

PLATE 3 CROSS SECTIONS

Federal Aid Route No.	Section	County	Total Sheets	Sheet No.
80	06-2HB-1	BUREAU	40	26

STA. 1432+40 TO STA. 1437+00

FED. ROAD DIST. NO. 7 ILLINOIS — PROJECT



S.B.I. ROUTE 88

FINAL SURVEY — SURVEYED ___ PLOTTED ___ TEMPLATE ___ AREAS ___ AREAS CHECKED ___ NOTE BOOK ___ NO. ___

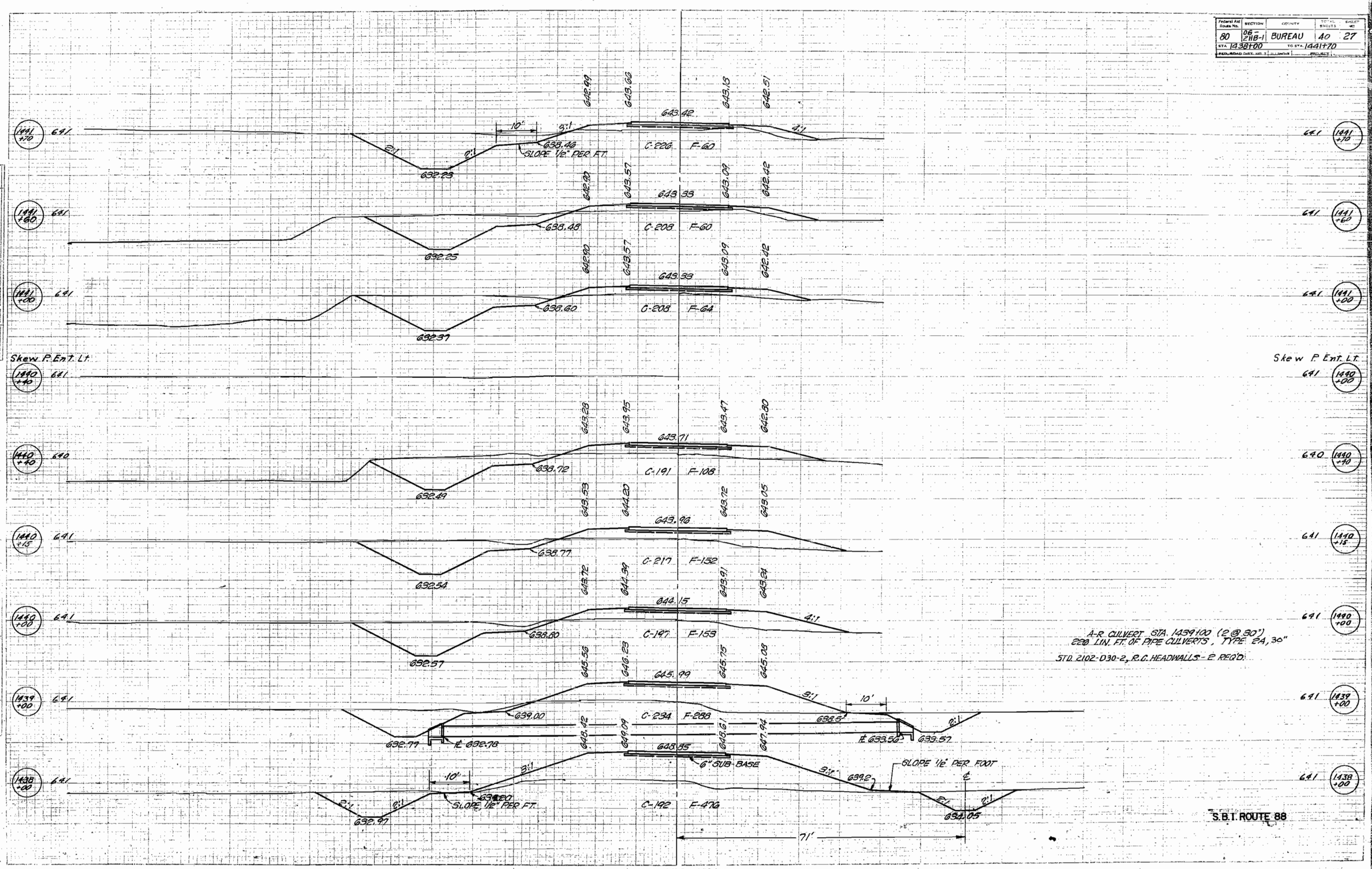
ORIGINAL SURVEY — SURVEYED ___ PLOTTED ___ TEMPLATE ___ AREAS ___ AREAS CHECKED ___ NOTE BOOK ___ NO. ___ BY ___ DATE ___

PLATE 3 CROSS SECTION B.P.R. STANDARD

Federal Aid Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-12HB-1	BUREAU	40	27

STA. 1438+00 TO STA. 1441+70

FED. ROAD DIST. NO. 7 ILLINOIS PROJECT

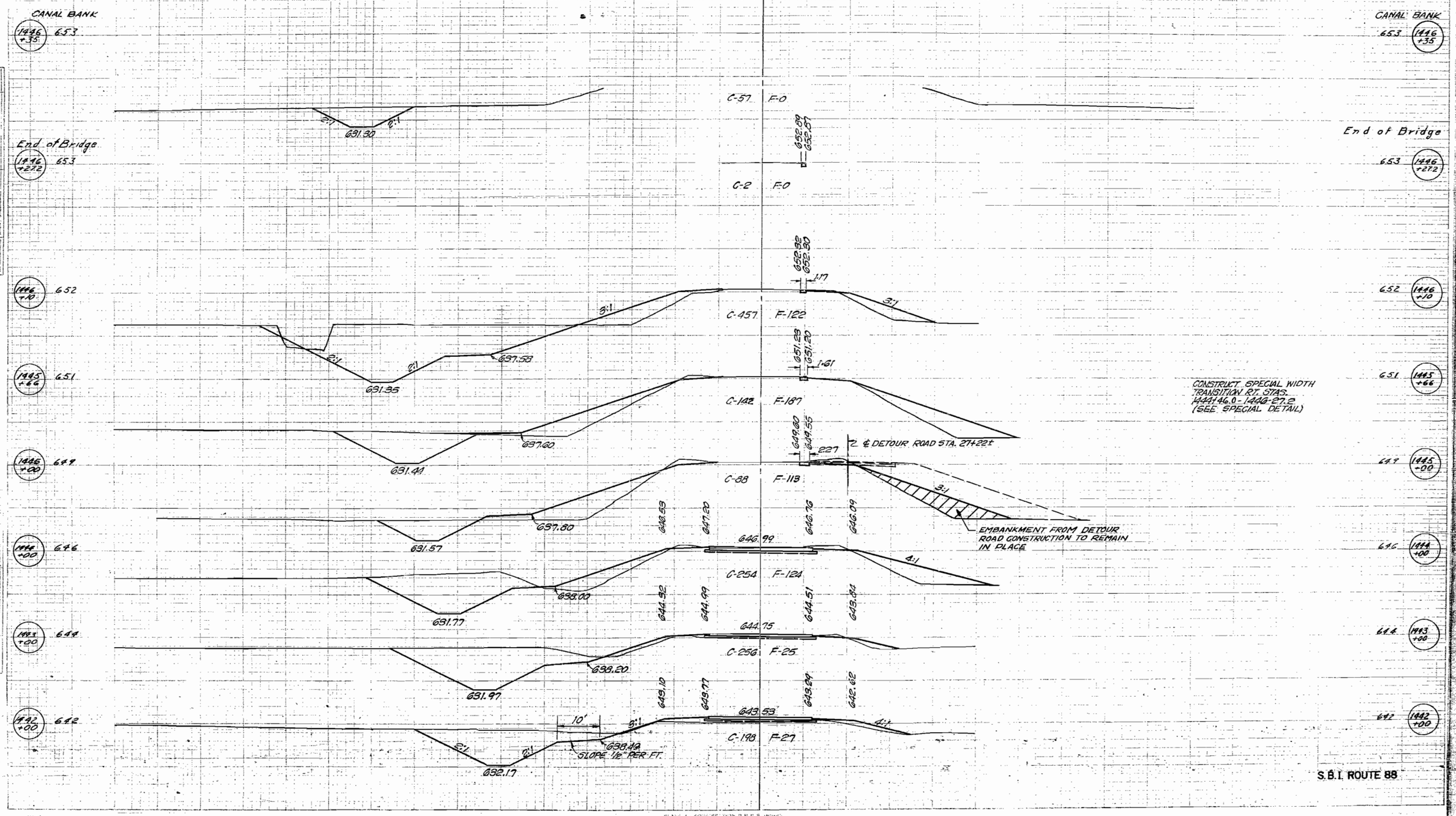


FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

PLATE 3 CROSS SECTION B.F.R. STATIONS

Federal Aid Route No.	Section	County	Total Sheets	Sheet No.
80	06-21B-1	BUREAU	40	28
STA. 1442+00		TO STA. 1446+35		
F.A.P. Road Dist. No. 1	Illinois	Project		

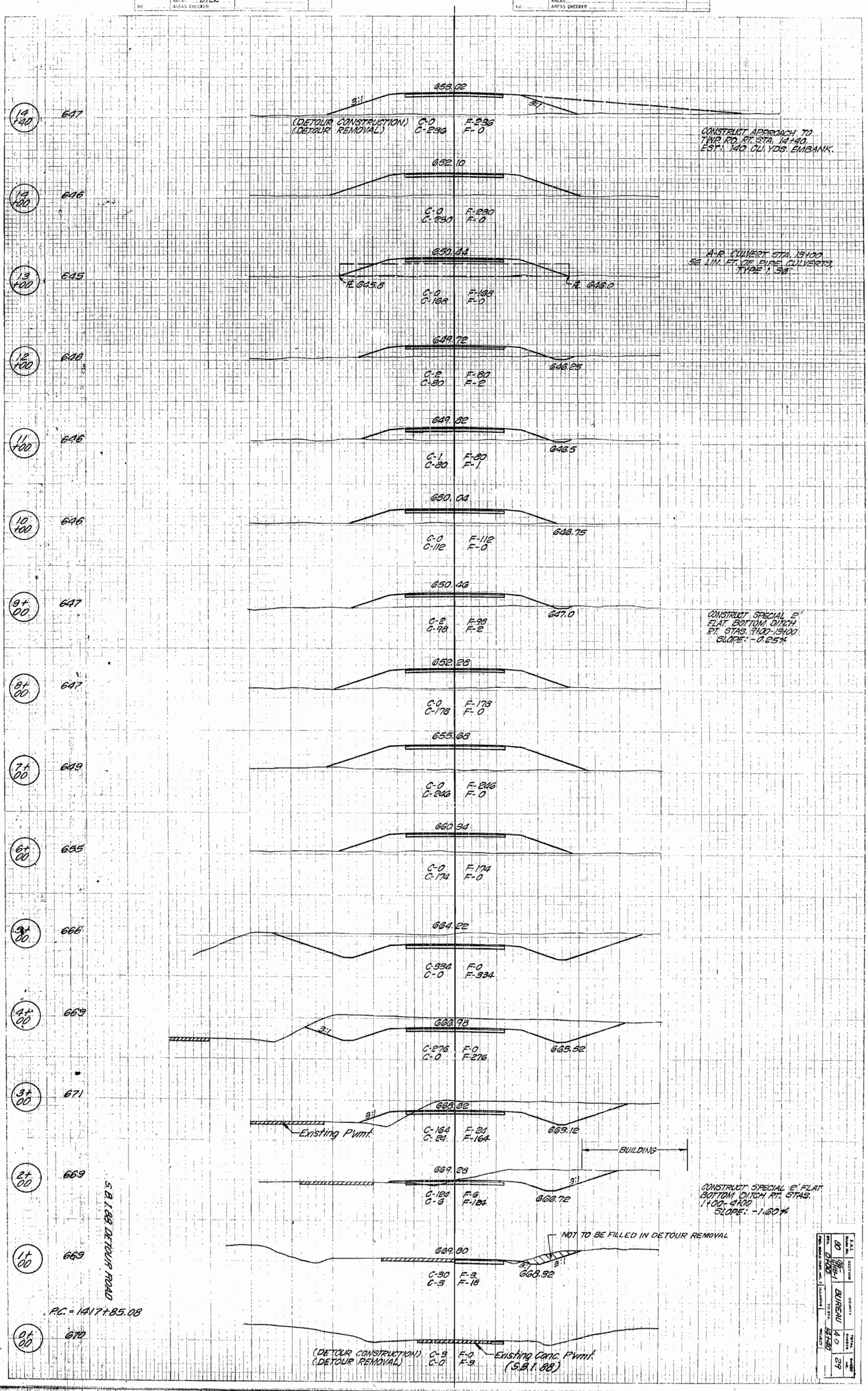


S.B.I. ROUTE 88

FINAL SURVEY NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

ORIGINAL SURVEY NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

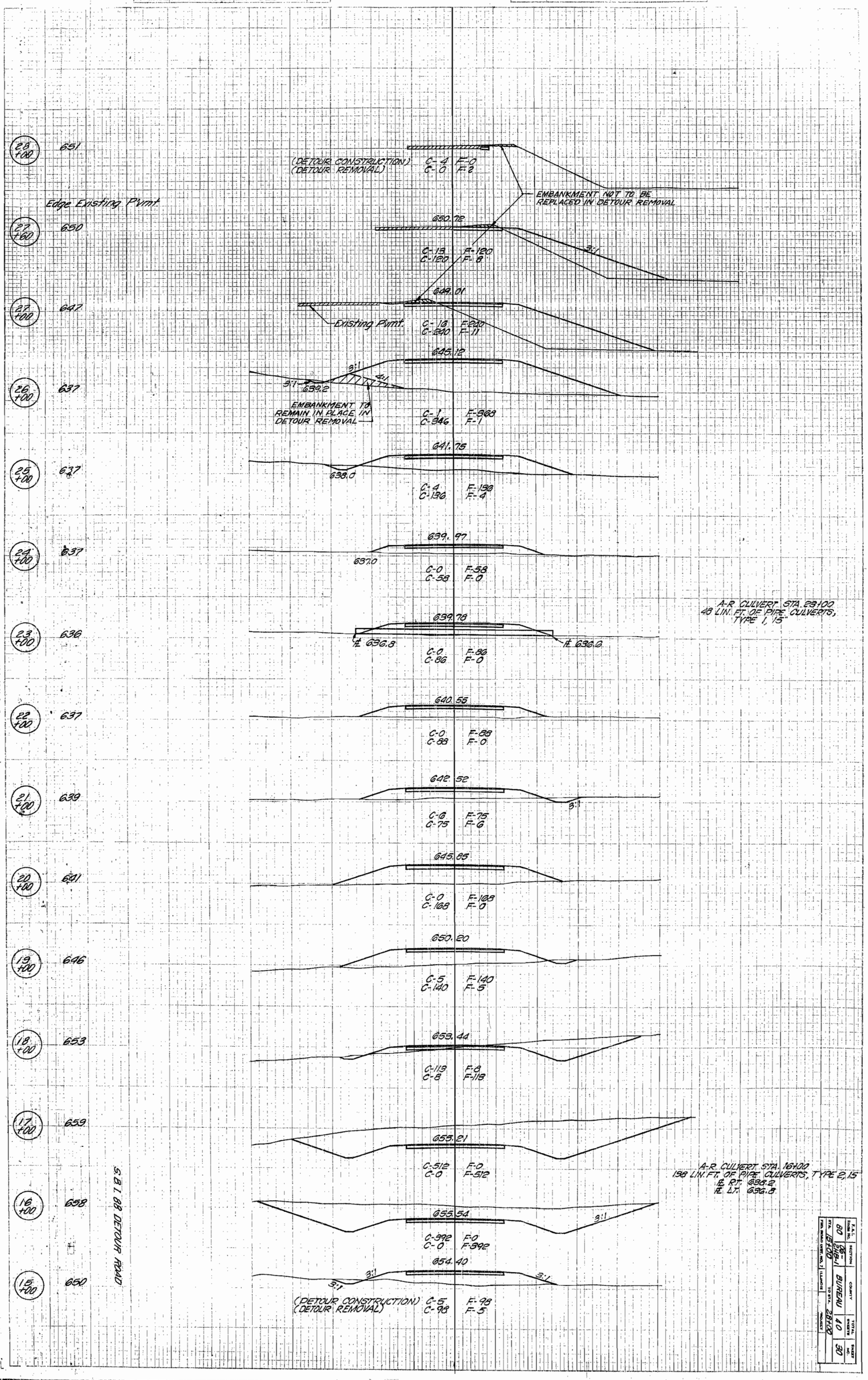
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	96-1	BUREAU	10	29
FED. ROAD DIST. NO.	ILLINOIS	STATE	CONTRACT NO. 62420	

PRELIM. SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED	DICK	

FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED		



F.A.I. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	88-SBI-1	BUREAU	40	30
STA. 15+00	TO STA. 28+00			
FED. ROAD DIST. NO. 1	ILLINOIS			
PROJECT				

Federal-Aid Route No.	Section	County	Total Sheets	Sheet No.
80	06-2HB-1	BUREAU	40	31
Sta. 465+00		To Sta. 473+00		
Fed. Road Dist. No. 7 / Illinois		Project		

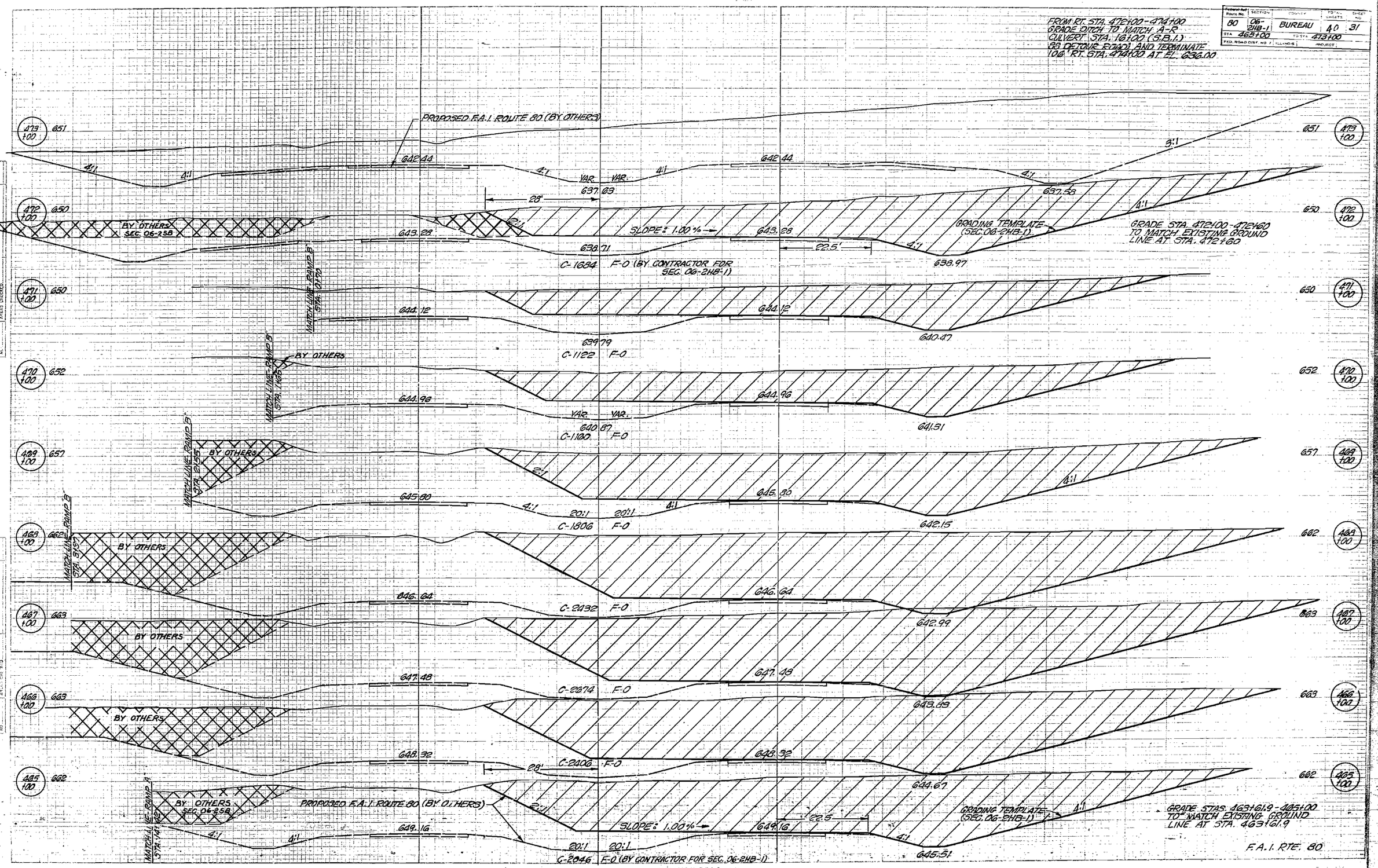
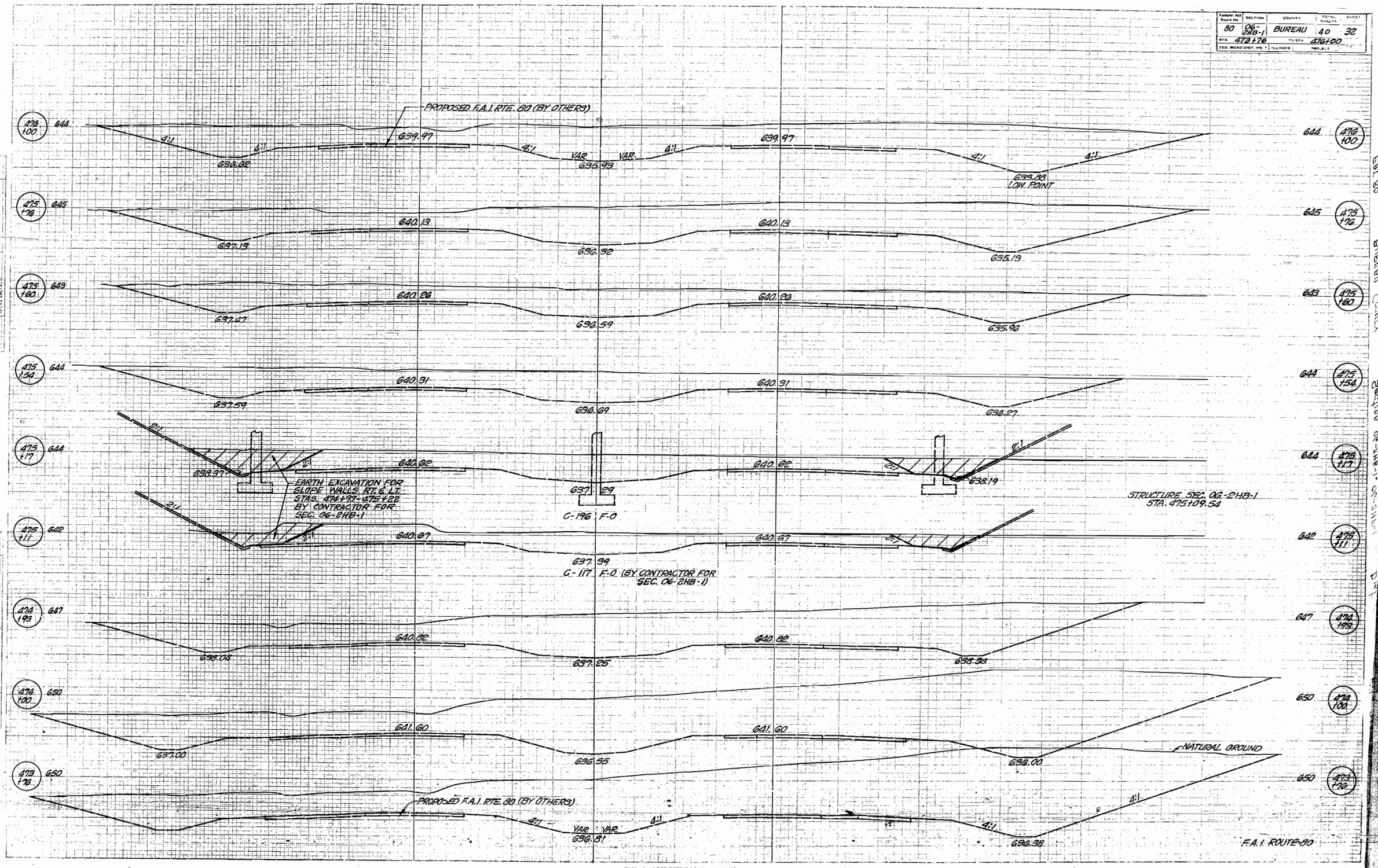


PLATE 3 CROSS SECTION B P R STANDARD

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
80	06-2HB-1	BUREAU	40	32
STA. 473+76		TO STA. 476+00		
FED. ROAD DIST. NO. 7	ILLINOIS			

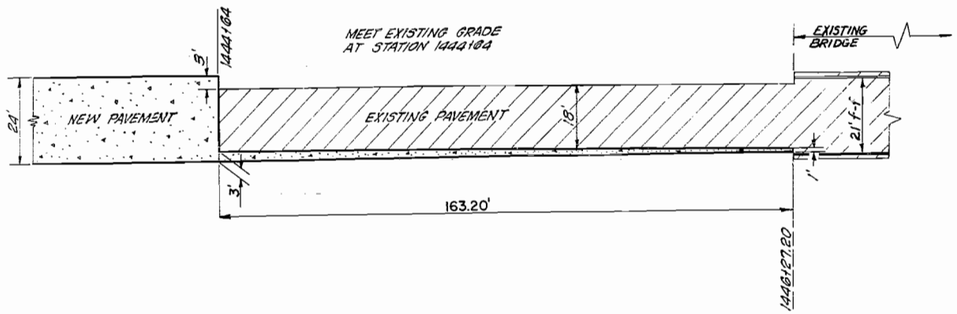


FLAT SLOPE SECTIONS FOR STRUCTURES

F.A.I. Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2HB-1	BUREAU	40	33
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

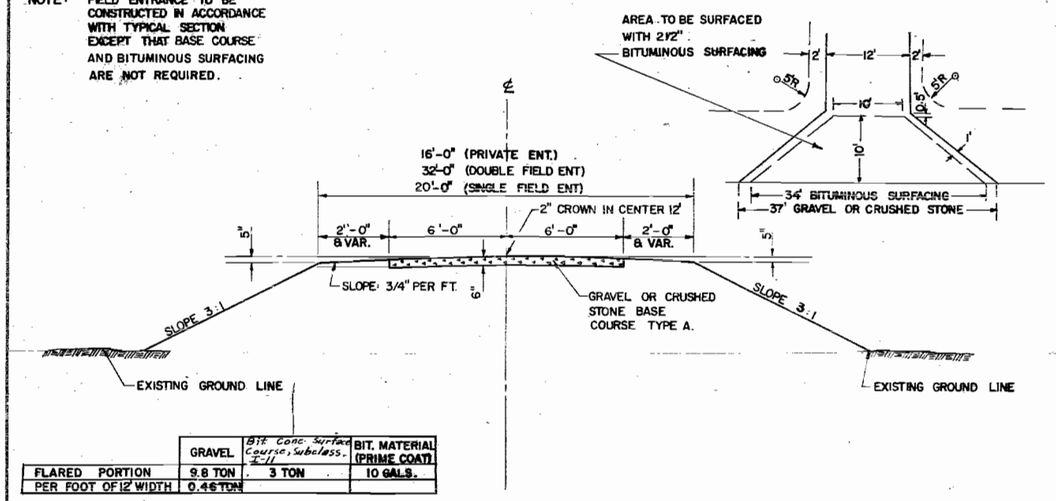
SPECIAL DESIGN FOR WIDTH TRANSITION

(S. B. I. RTE. 88 - STAS. 1444+64.00 - 1446+27.20)



F.A.I. Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2HB-1	BUREAU	40	33
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

NOTE: FIELD ENTRANCE TO BE CONSTRUCTED IN ACCORDANCE WITH TYPICAL SECTION EXCEPT THAT BASE COURSE AND BITUMINOUS SURFACING ARE NOT REQUIRED.



	GRAVEL	Bit. Conc. Surface Course, Subclass. I-11	BIT. MATERIAL (PRIME COAT)
FLARED PORTION	9.8 TON	3 TON	10 GALS.
PER FOOT OF 12' WIDTH	0.46 TON		

TYPICAL SECTION OF PROPERTY ENTRANCE

F.A.I. Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2HB-1	BUREAU	40	33
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

MANHOLES, SPECIAL

ALTERNATE MATERIALS FOR WALLS	D	T
CONCRETE MASONRY UNITS	4' - 0"	5"
	5' - 0"	5"
BUILDING BRICK GRADE S.W. FROM CLAY OR SHALE	4' - 0"	8"
	5' - 0"	8"
PRECAST REINFORCED CONCRETE RISERS*	4' - 0"	5"
	5' - 0"	5"
MONOLITHIC CONCRETE	4' - 0"	6"
	5' - 0"	6"
CONCRETE BUILDING BRICK GRADE A	4' - 0"	8"
	5' - 0"	8"

DIAMETER OF MAIN SEWER	D
18" AND UNDER	4' - 0"
21" TO 42" INCLUSIVE	5' - 0"

N O T E S

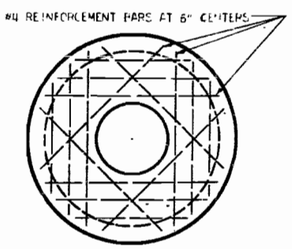
BRICK AND CONCRETE UNITS ARE TO BE LAID IN FULL MORTAR BEDS WITH FLUSH JOINTS.

MANHOLES SPECIAL SHALL BE PROVIDED WITH CAST IRON FRAME SPECIAL, TYPE 2, WITH TYPE 1 CLOSED LID 1516S.

THE CONTRACT UNIT PRICE FOR MANHOLES SPECIAL SHALL INCLUDE THE FRAME WITH LID AND REINFORCEMENT BARS.

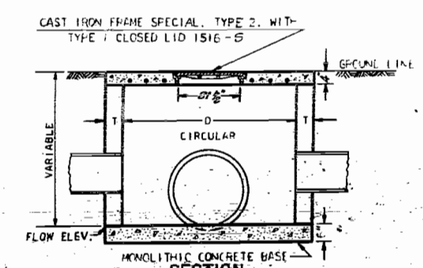
* PRECAST R.C. RISERS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR REINFORCED CONC. SEWER PIPE A.S.T.M. DESIGNATION C-75, EXCEPT THAT ONE LINE OF REINFORCEMENT AMOUNTING TO AT LEAST 0.14 SQUARE INCH PER LINEAL FOOT MAY BE USED AND THE STRENGTH REQUIREMENT WILL BE WAIVED.

MANHOLES SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEC. 75 OF THE STANDARD AND SUPPLEMENTAL SPECIFICATIONS.



PLAN

SHOWING REINFORCEMENT IN CONCRETE SLABS



SECTION