

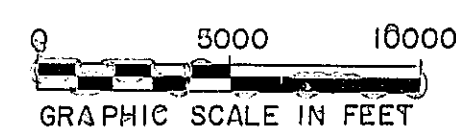
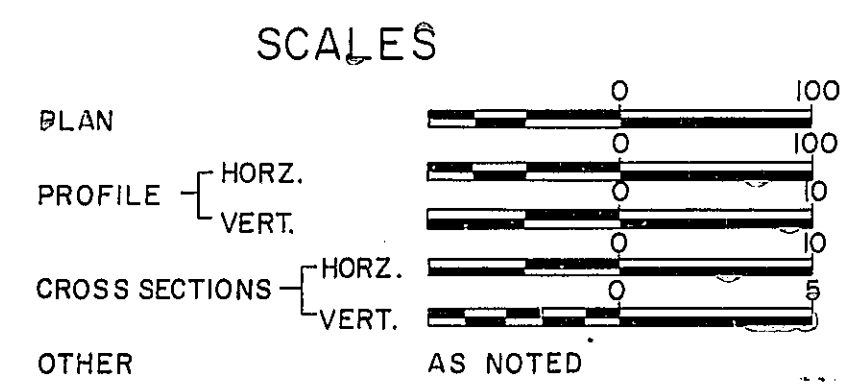
INDEX OF SHEETS

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- STANDARD 2303-2
- STANDARD 2314-1
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- STANDARD 2325-0

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY
ROUTE 55

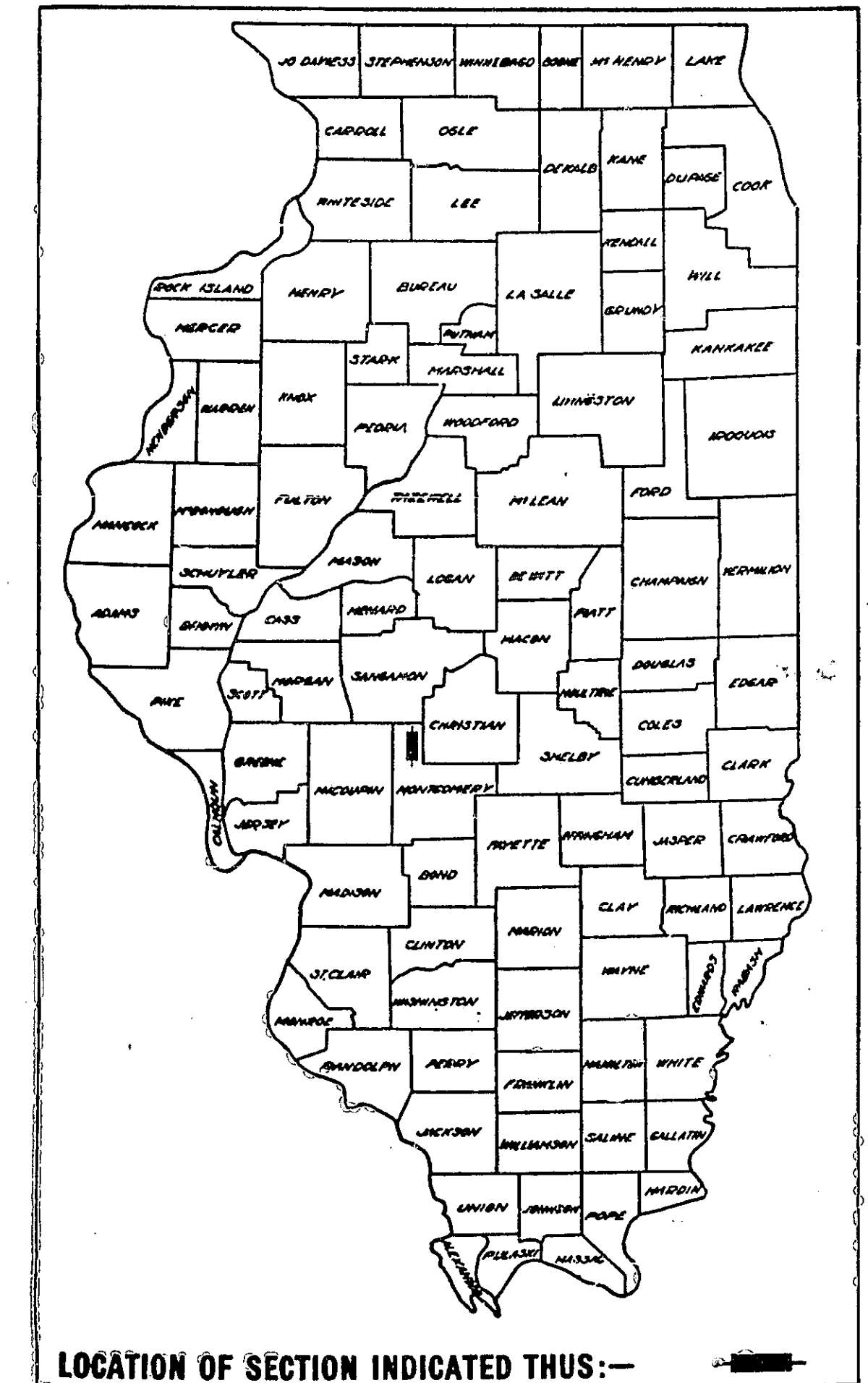
PROJECT I-55-2(41)66
 SECTION 68-4HB

MONTGOMERY COUNTY
 ROADWAY CONSTRUCTION
 C 96 - 078 - 70



FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.-55	68-4HB	MONT.	44	1
ILL. P. H. REG. NO. 4	ILLINOIS PROJECT		I-55-2(41)66	

P-98-004-66



LOCATION OF SECTION INDICATED THUS:—

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

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

SUBMITTED: 2-9-71
 EXAMINED: 3-26-71
 PASSED: 3-26-71
 APPROVED: 3-26-71
 APPROVED: 3-26-71

DESIGN DESIGNATION

C.H. 16A
 235 (79)-F-Q00624 (B-15)
 MAXIMUM GRADE = +3.64%
 LENGTH OF MAXIMUM GRADE = 175 FT.
 MINIMUM HORIZONTAL RADIUS = 250 FT.
 MINIMUM STOPPING SIGHT DISTANCE = 465 FT.

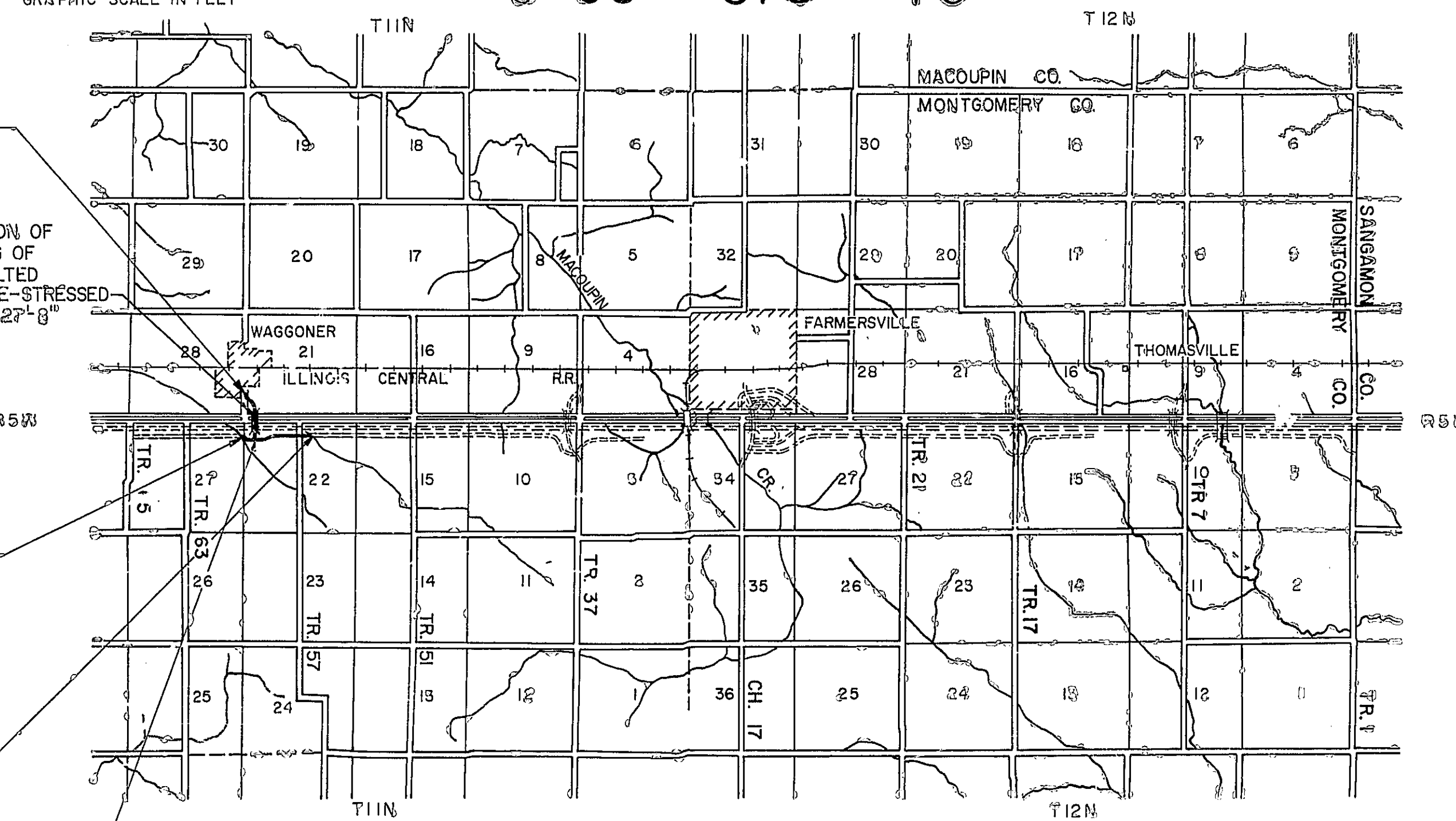
F.A.I. 55
 3184(90)-A-1 TRUNK-15, S6(C.R.C.-20)
 MAXIMUM GRADE ADJACENT TO STRUCTURE = -0.281%
 LENGTH OF MAXIMUM GRADE = 1370 FT.
 MINIMUM HORIZONTAL RADIUS = INFINITE LENGTH
 MINIMUM STOPPING SIGHT DISTANCE = 850 FT.

SECTION 68-4HB INCLUDES THE CONSTRUCTION OF A STEEL PLATE GIRDER BRIDGE CONSISTING OF 9 SPANS @ 88'-6", 101'-1", 99'-6" WITH VAULTED APPROACH ABUTMENTS WITH PRE-CAST, PRE-STRESSED CONCRETE BEAMS WITH SPANS OF 23'-6", 27'-6" AND LOCATED AT STA. 1285+90.33 C.H. 16A TOTAL BRIDGE OMISSION IS 339.28 FT.

EAST FRONTAGE ROAD #3
 SECTION 68-4 HB
 ENDS STA. 1295+00

EAST FRONTAGE ROAD #3
 SECTION 68-4 HB
 BEGINS STA. 1260+00

SECTION 68-4HB C.H.16A
 ENDS STA. 52+66



NET LENGTH OF PROJECT I-55-2(41)66 = 0 FT. = 0 MILES

*James J. P...
 ILLINOIS S.E. # 2851*



ROADWAY PLANS PREPARED BY
 WESTENHOFF AND NOVICK, INC.
 CONSULTING ENGINEERS
 CHICAGO, ILLINOIS
 SUBMITTED: Howard S. Newman
 ILLINOIS P.E. # 19417

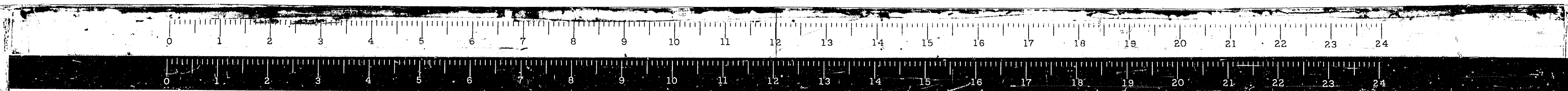
DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
 DIVISION ENGINEER

DATE: _____

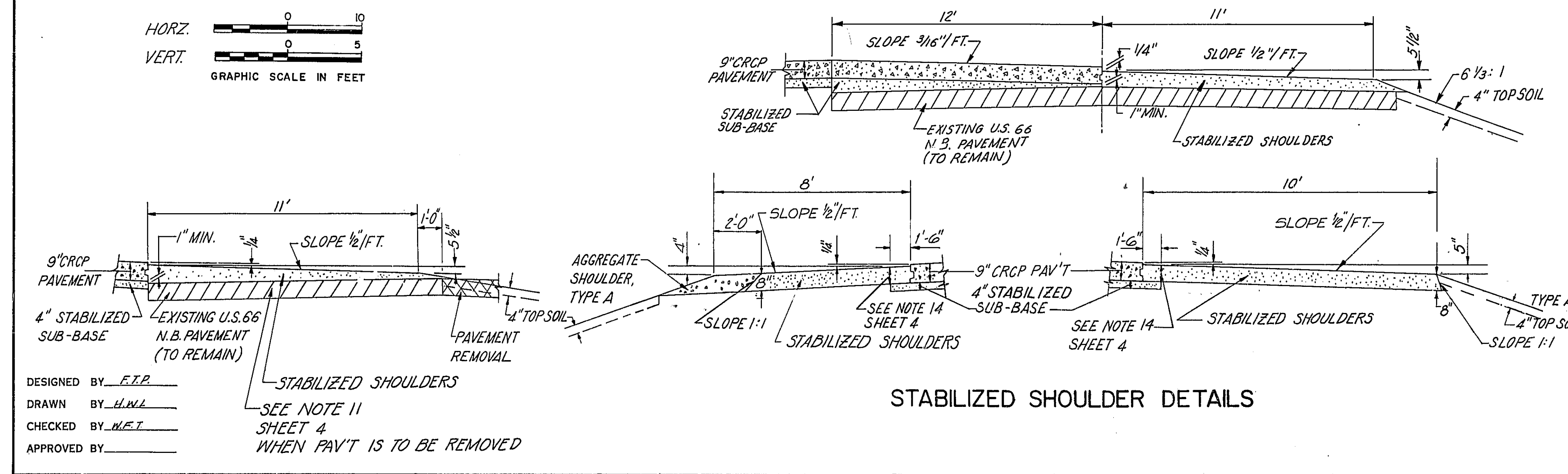
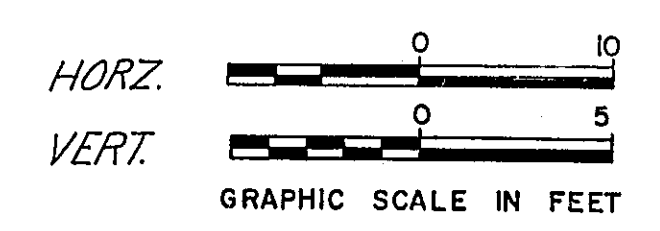
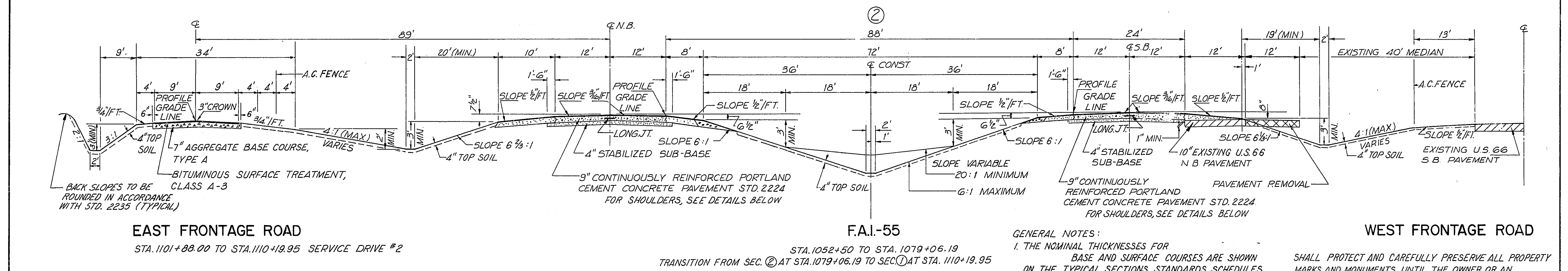
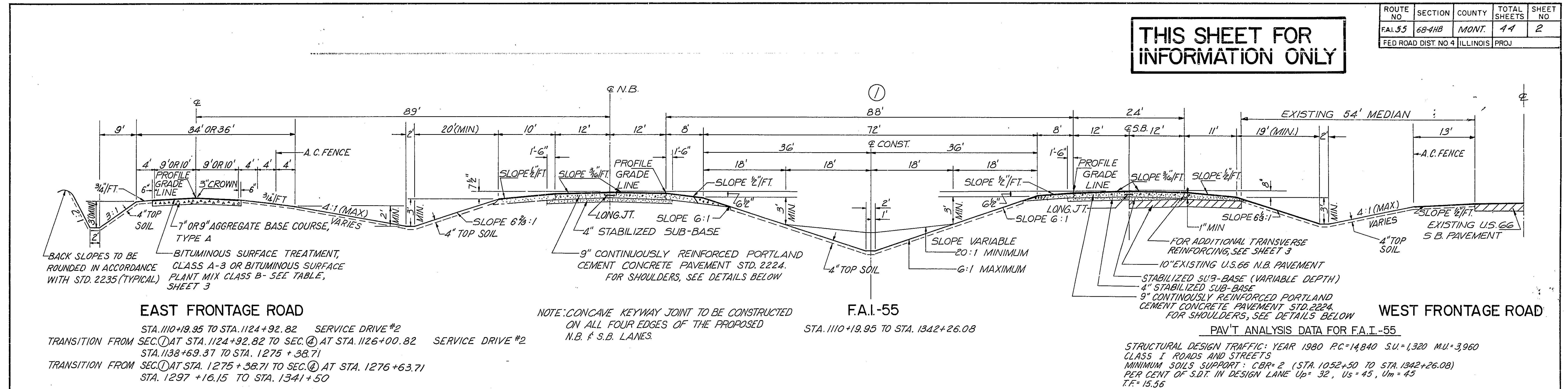
CONTRACT NO. 88491

MONTGOMERY COUNTY SECTION 68-4HB F. A. ROUTE 1-55



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI.55	68-4H	MONT.	44	2
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				

THIS SHEET FOR INFORMATION ONLY

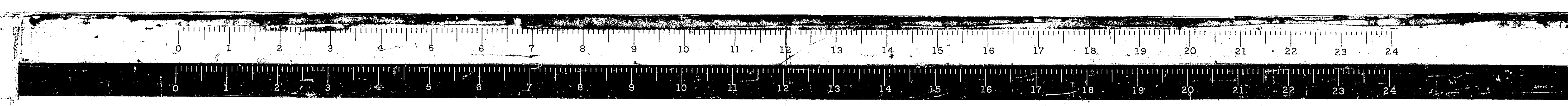


- GENERAL NOTES:**
- THE NOMINAL THICKNESSES FOR BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
 - THE THICKNESS OF BITUMINOUS 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 ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
 - IN AREAS WHERE THE NEW PAVEMENT IS TOTALLY OFFSET FROM THE PRESENT NORTHBOUND LANE, THE EDGE OF THE EXISTING PAVEMENT IS TO BE USED AS A FORM LINE REGARDLESS OF THE NEW PAVEMENT'S ALIGNMENT.
 - CONCRETE FOUNDATIONS, CONCRETE SLABS, EXISTING CULVERTS, HEADWALLS TO BE REMOVED, ETC. SHALL BE CONSIDERED AS INCIDENTAL TO EARTH EXCAVATION IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS. CULVERTS TO BECOME PROPERTY OF THE CONTRACTOR.
 - WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THIS LOCATION.
 - THE CROWN SHALL BE REMOVED FROM ALL PAVEMENTS BUILT WITH SUPERELEVATION. THE CROWN SHALL BE REMOVED OR INCORPORATED IN THE LENGTH OF SUPERELEVATION ATTAINMENT.
 - SEE STD. NO. 2224 & 2225 FOR PAVEMENT & REINFORCEMENT DETAILS.
 - ALL EXISTING MEDIAN CROSS OVERS SHALL BE REMOVED. WORK CONSIDERED INCIDENTAL TO EARTH EXCAVATION.
 - SEE ADDITIONAL NOTES ON SHEET 4.

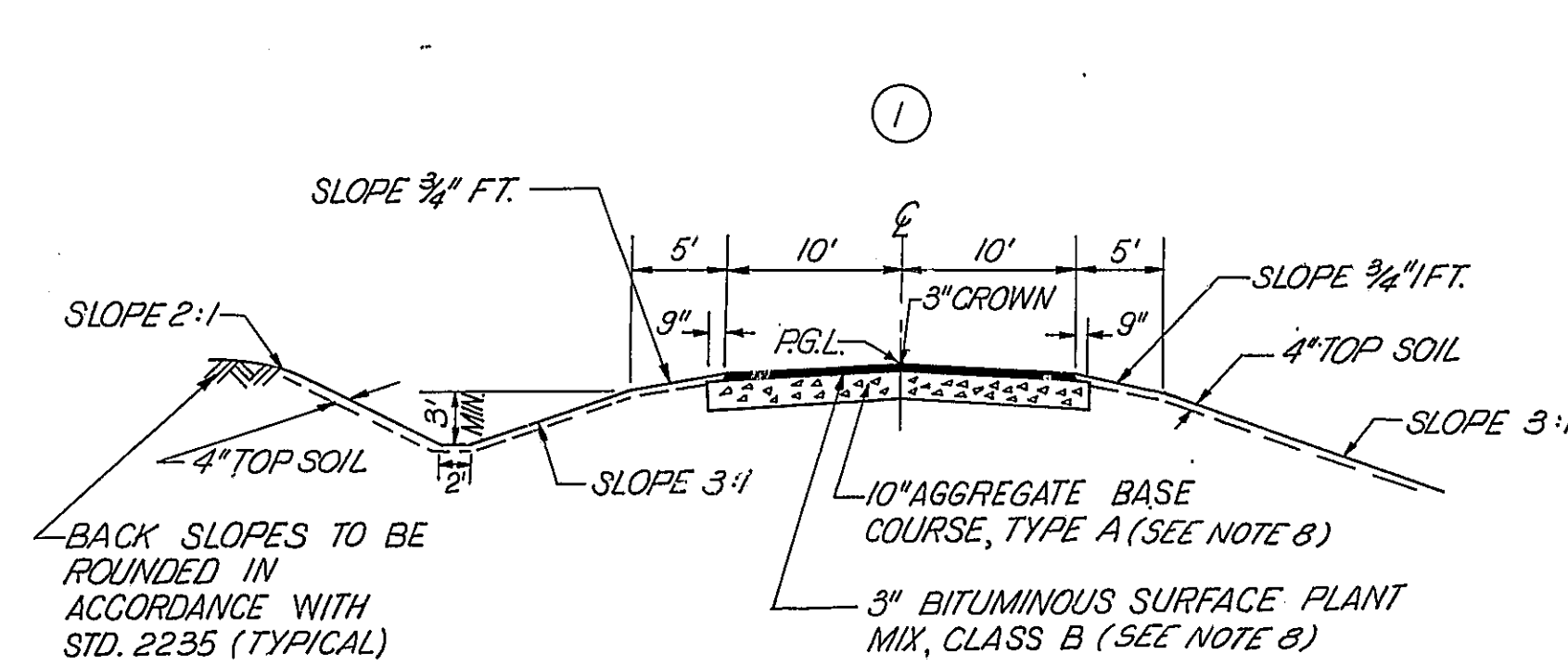
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

TYPICAL SECTIONS

WESTENHOFF AND NOVICK, INC.
 CONSULTING ENGINEERS

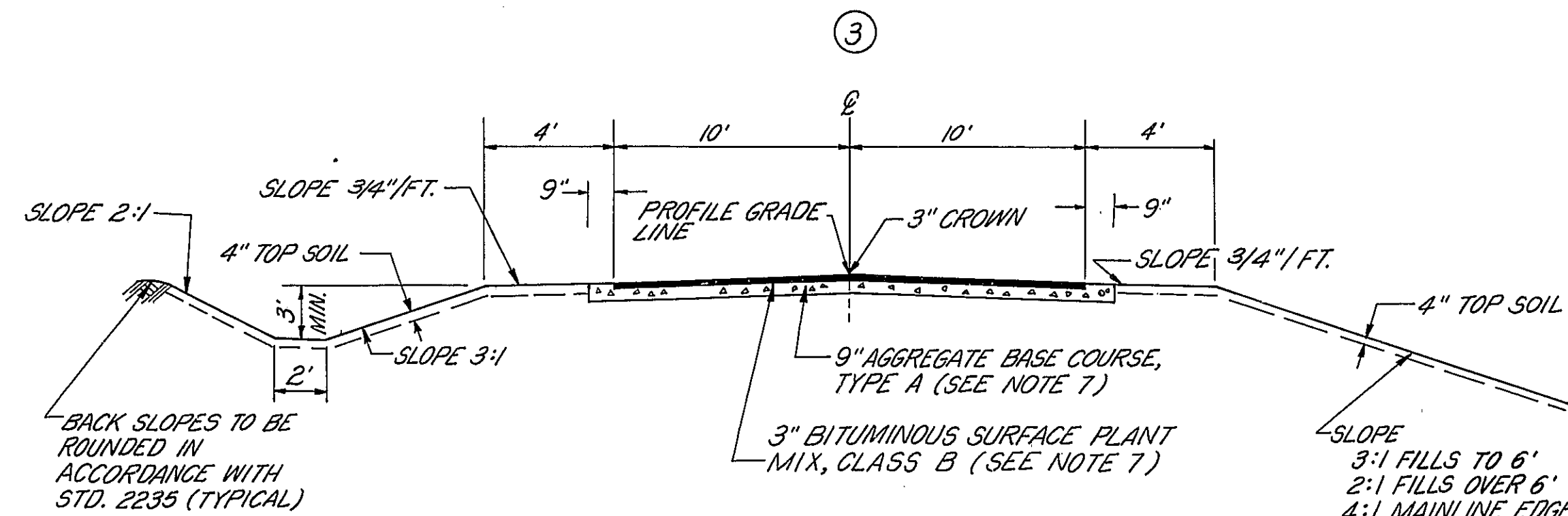


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RAI. 53	68-4HB	MONI.	44	3
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				



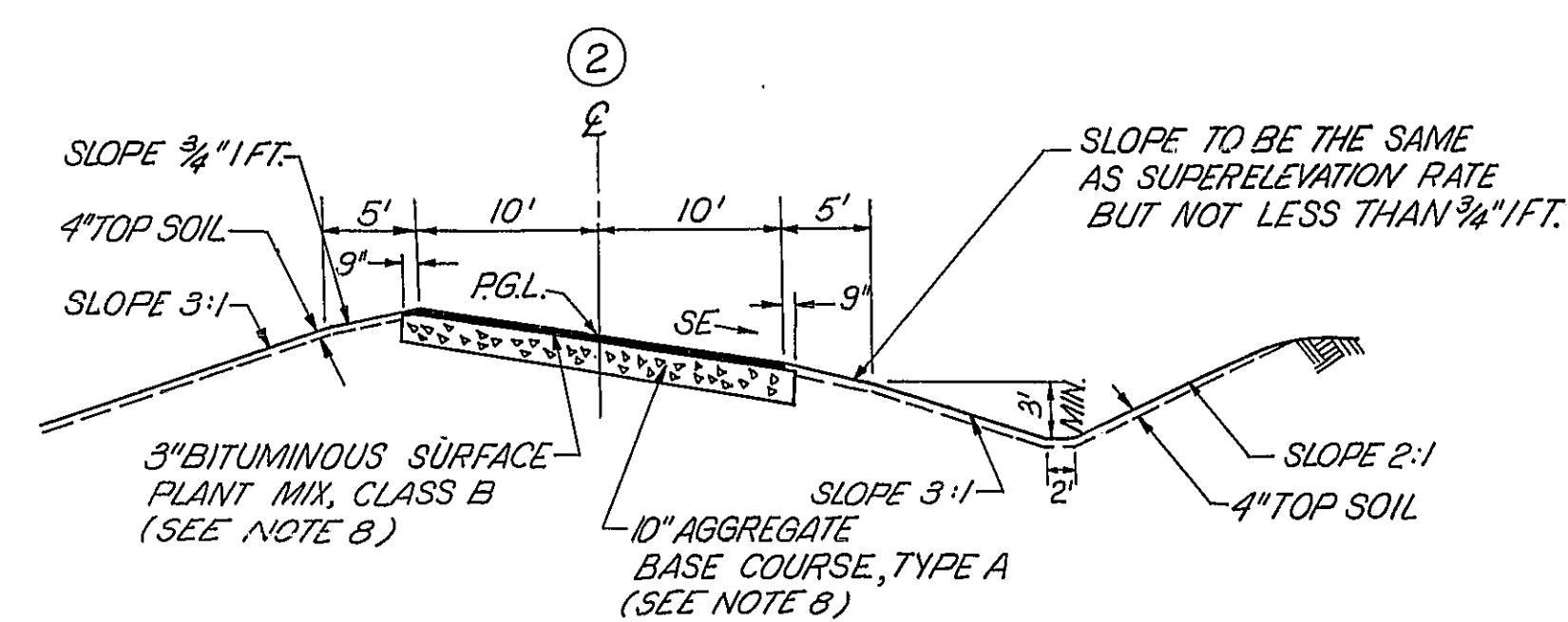
COUNTY HIGHWAY 16A - NORMAL

TRANSITION FROM SEC. ① AT STA. 39+72.01 TO STA. 40+65.68
 AT STA. 40+65.68 TO SEC. ② AT STA. 41+91.68
 STA. 44+95.67 TO STA. 48+08.67
 STA. 48+08.67 TO STA. 51+47.92 BRIDGE OMISSION
 STA. 51+47.92 TO STA. 52+66.00



EAST FRONTAGE ROAD - NORMAL

STA. 1260+00 TO STA. 1275+38.71
 TRANSITION FROM SEC. ③ AT STA. 1276+38.71 TO SEC. ④ AT STA. 1276+63.71
 STA. 1280+16.85 TO STA. 1282+15.75
 TRANSITION FROM SEC. ③ AT STA. 1282+15.75 TO SEC. ④ AT STA. 1283+40.75
 STA. 1289+80.42 TO STA. 1292+62.96
 TRANSITION FROM SEC. ③ AT STA. 1292+62.96 TO SEC. ⑤ AT STA. 1293+87.96

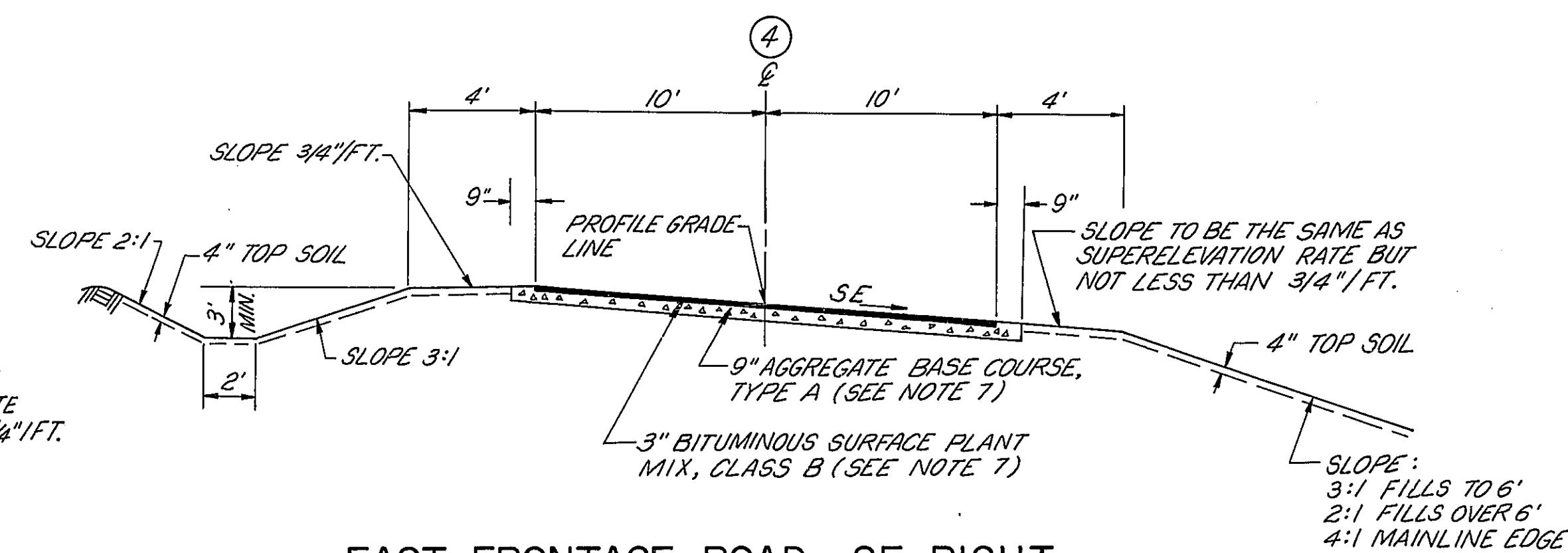


COUNTY HIGHWAY 16A - SE RIGHT

STA. 41+91.68 TO STA. 43+72.01
 TRANSITION FROM SEC. ② AT STA. 43+69.67 TO SEC. ① AT STA. 44+95.67

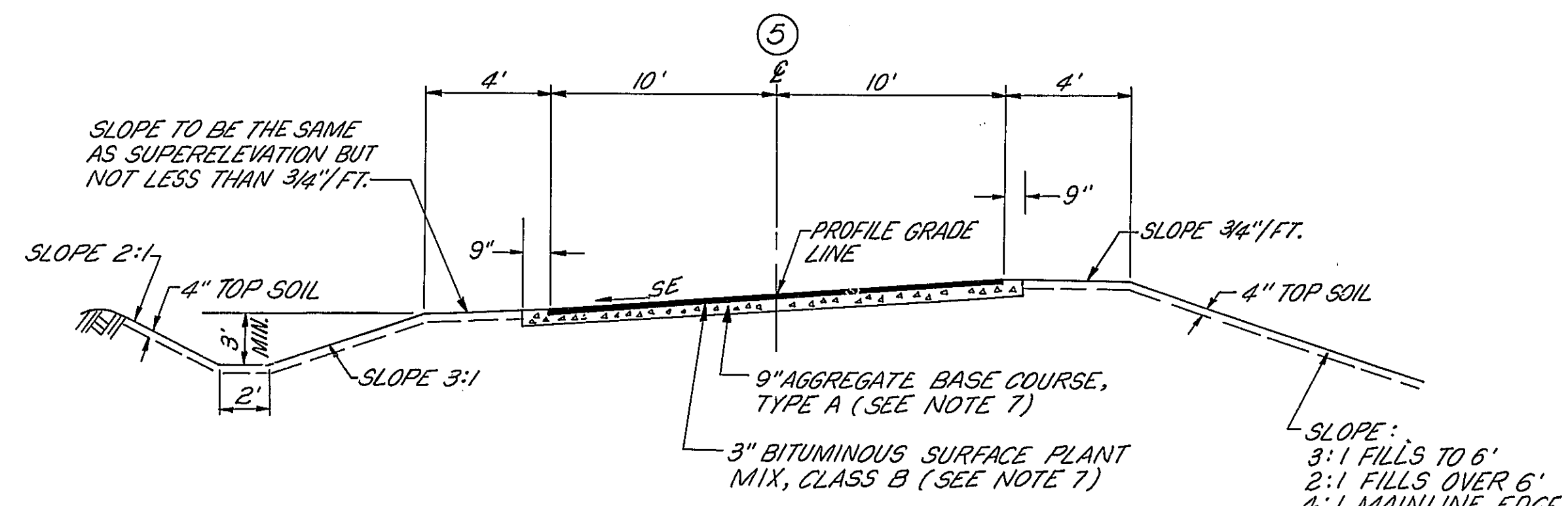
PAV'T ANALYSIS DATA FOR C.H.16A

STRUCTURAL DESIGN TRAFFIC: YEAR 1979 P.C.=178 U.S.=70 M.U.=2
 CLASS II ROADS AND STREETS
 MINIMUM SOILS SUPPORT: CBR=2.0 (STA. 39+72.01 TO STA. 52+66)
 PER CENT OF S.D.T. IN DESIGN LANE U₁₀=50 U₅=50 U_m=50
 T.F.=0.0066



EAST FRONTAGE ROAD - SE RIGHT

STA. 1283+40.75 TO STA. 1288+55.42
 TRANSITION FROM SEC. ④ AT STA. 1288+55.42 TO SEC. ③ AT STA. 1289+80.42



EAST FRONTAGE ROAD - SE LEFT

STA. 1276+63.71 TO STA. 1278+91.85
 TRANSITION FROM SEC. ④ AT STA. 1278+91.85 TO SEC. ③ AT STA. 1280+16.85
 STA. 1293+87.96 TO STA. 1295+00

GENERAL NOTES:

- THE NOMINAL THICKNESSES FOR BASE AND SURFACE COURSE ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
- CONCRETE FOUNDATIONS, CONCRETE SLABS, EXISTING CULVERTS, HEADWALLS TO BE REMOVED, ETC. SHALL BE CONSIDERED AS INCIDENTAL TO EARTH EXCAVATION IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS. CULVERTS THAT ARE REMOVED BECOME PROPERTY OF CONTRACTOR.
- WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THIS LOCATION.
- THE CROWN SHALL BE REMOVED FROM ALL PAVEMENTS BUILT WITH SUPERELEVATION. THE CROWN SHALL BE REMOVED OR INCORPORATED IN THE LENGTH OF SUPERELEVATION ATTAINMENT.
- THE TWO PROJECT SIGNS (STD 2153) ARE TO BE LOCATED AS SHOWN ON SHEETS 6 & 9.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS SHOWN IN THE INDEX OF SHEETS ON THE TITLE SHEET SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- 9" AGGREGATE BASE COURSE, TYPE A AND 3" BITUMINOUS SURFACE PLANT MIX, CLASS B SHALL BE PLACED ONLY BETWEEN STATIONS 1261+50 TO 1276+50 UNDER SEC. 68-4HB. REMAINDER OF SURFACING AND BASE COURSE TO BE PLACED UNDER SEC. 68-4.
- THE 10" AGGREGATE BASE COURSE, TYPE A AND 3" BITUMINOUS SURFACE PLANT MIX, CLASS B SHALL BE PLACED UNDER SEC. 68-4.

PAV'T ANALYSIS DATA FOR EAST FRONTAGE ROAD #3

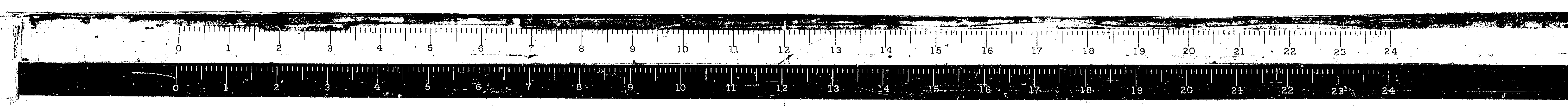
STRUCTURAL DESIGN TRAFFIC: YEAR 1979 P.C.=167 U.S.=66 M.U.=2
 CLASS II ROADS AND STREETS
 MINIMUM SOILS SUPPORT: CBR = 2.0 (STA. 1261+50 TO STA. 1295+00)
 PER CENT OF S.D.T. IN DESIGN LANE U₁₀=50 U₅=50 U_m=50
 T.F.=0.00624

DESIGNED BY F.T.P.
 DRAWN BY M.Q.
 CHECKED BY H.S.M.
 APPROVED BY _____

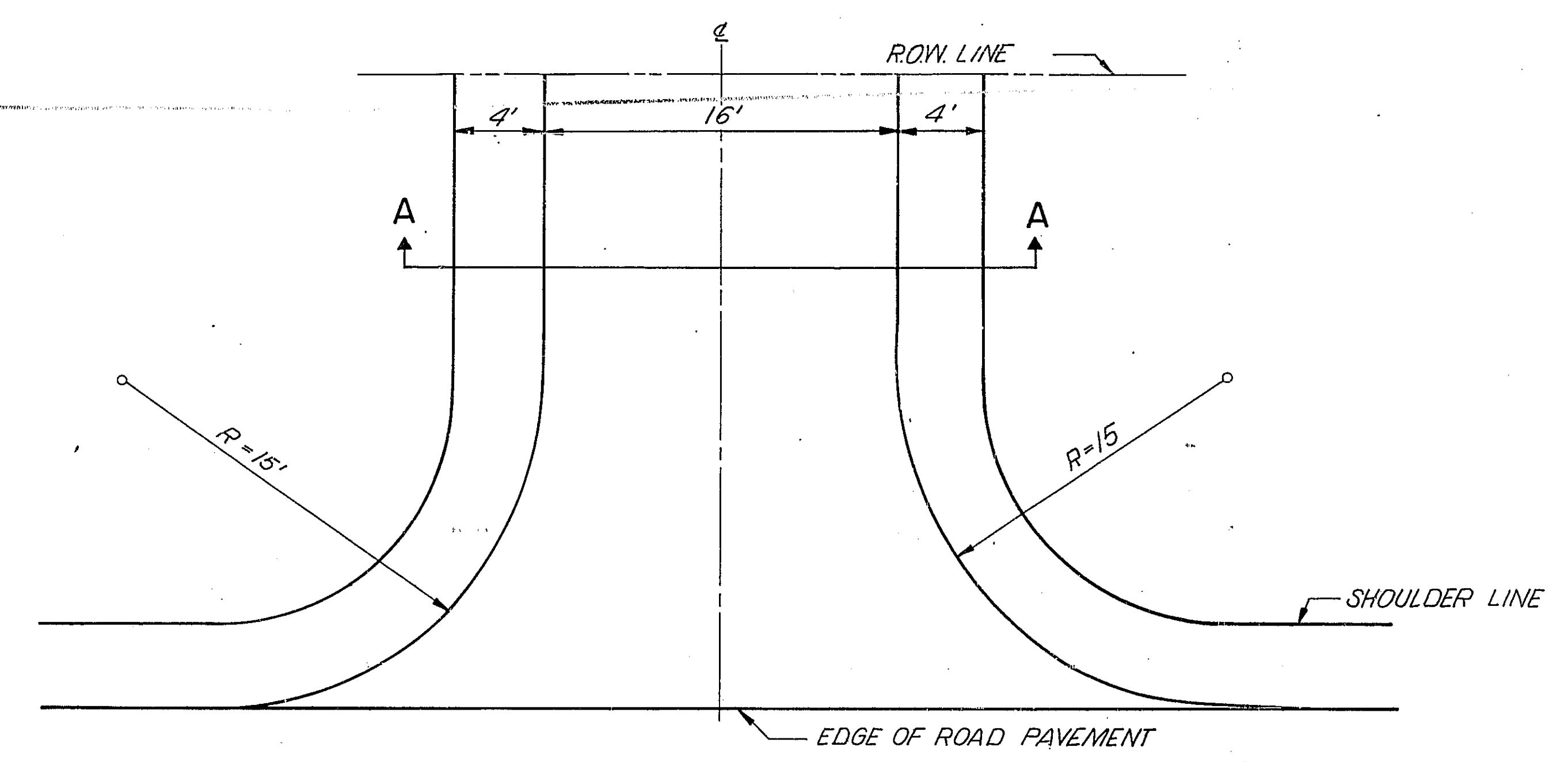
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

TYPICAL SECTIONS

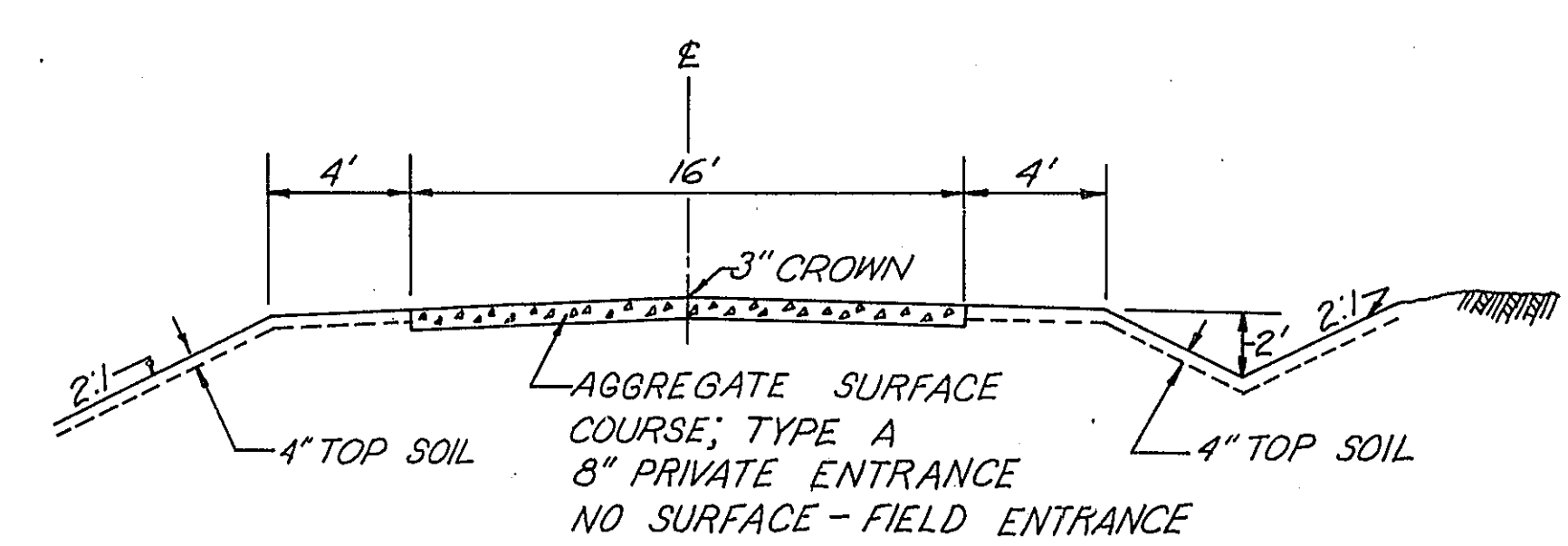
WESTENHOFF AND NOVICK, INC.
 CONSULTING ENGINEERS



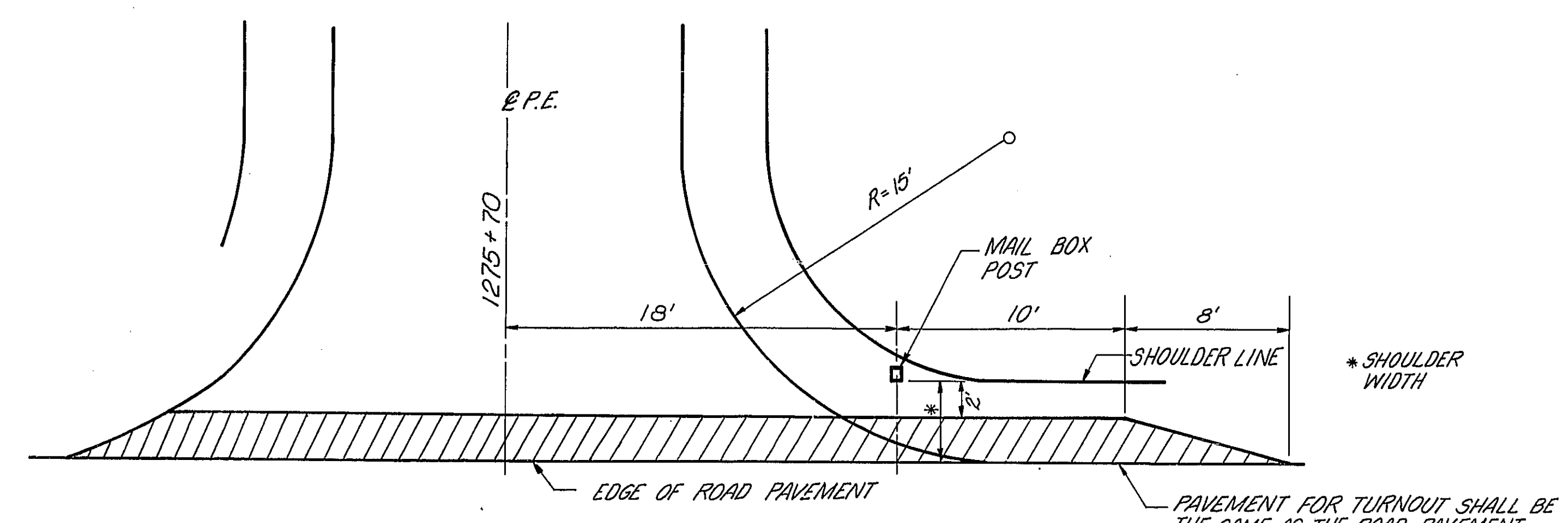
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 55	68-4HB	MONTE	44	4
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				



PRIVATE ENTRANCE & FIELD ENTRANCE
SCALE 1" = 5'

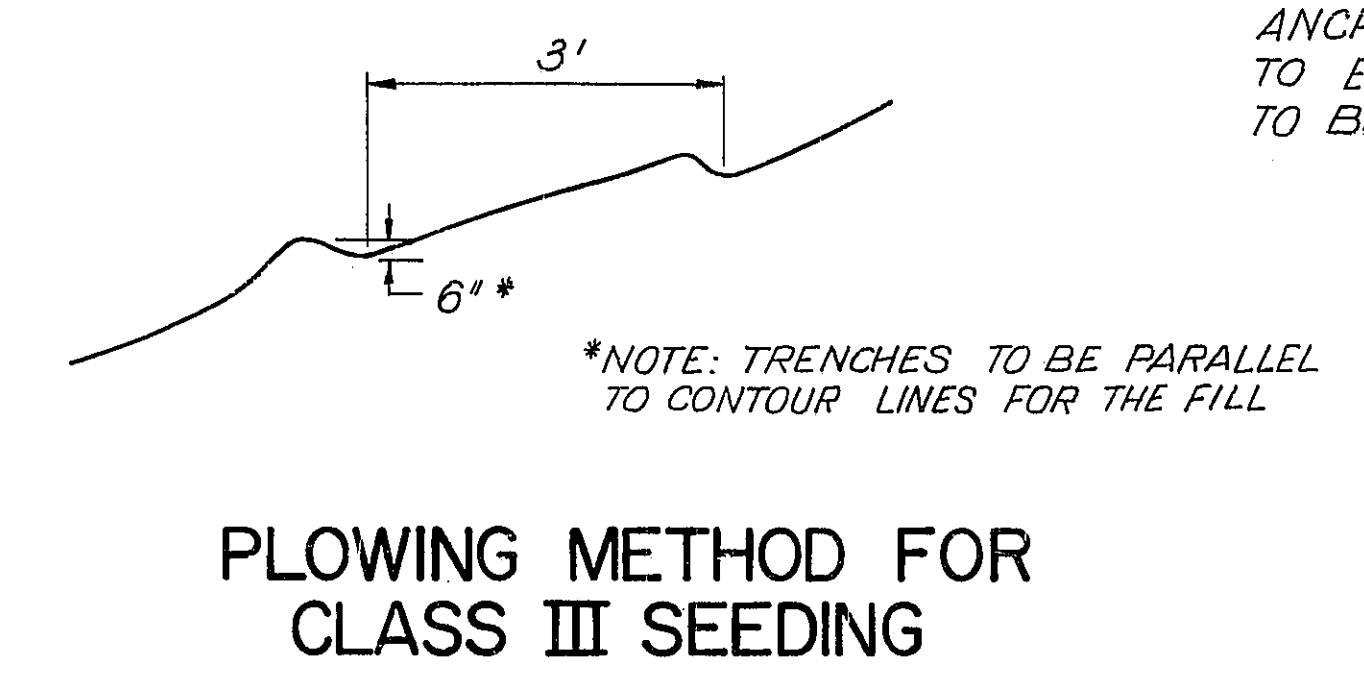


SECTION A-A

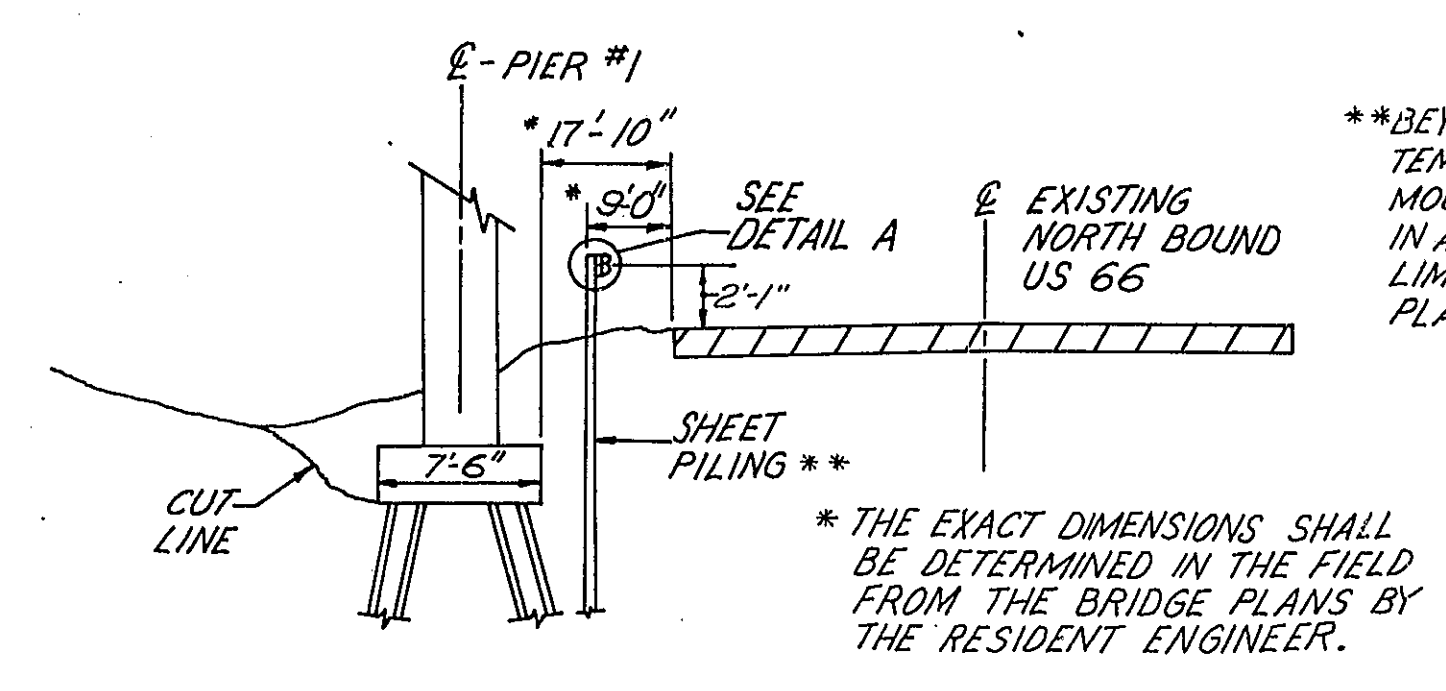


MAIL BOX TURNOUT AT
STA. 1275+70 E. FR. RD. # 3

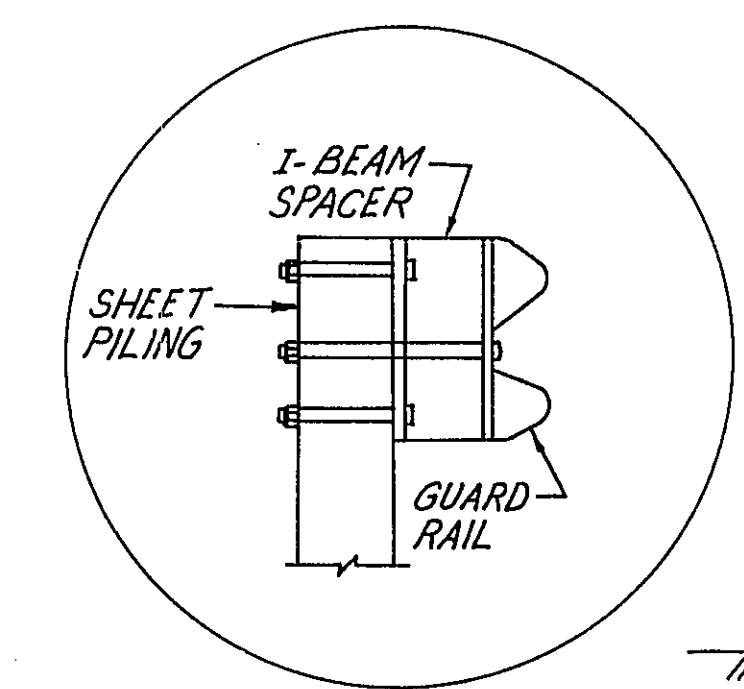
DESIGNED BY E.P.P.
DRAWN BY M.O.
CHECKED BY M.F.T.
APPROVED BY _____



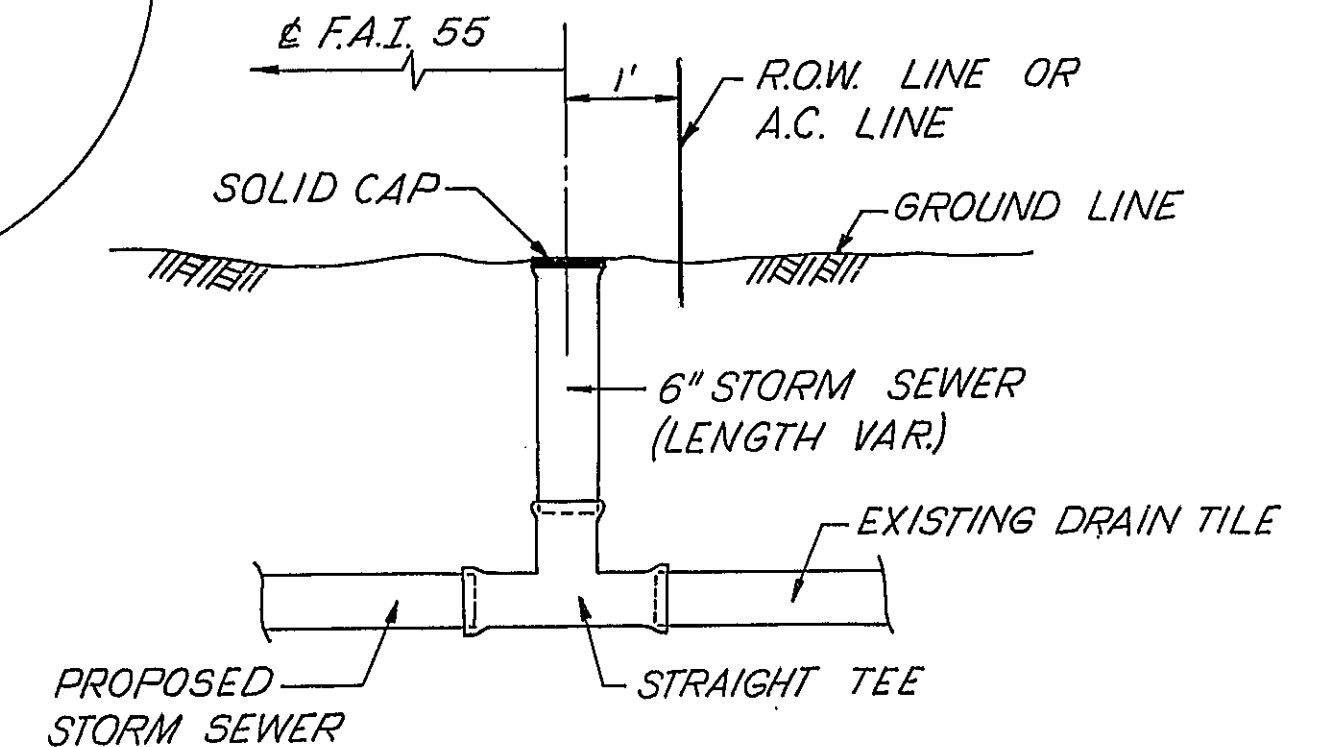
PLOWING METHOD FOR
CLASS III SEEDING



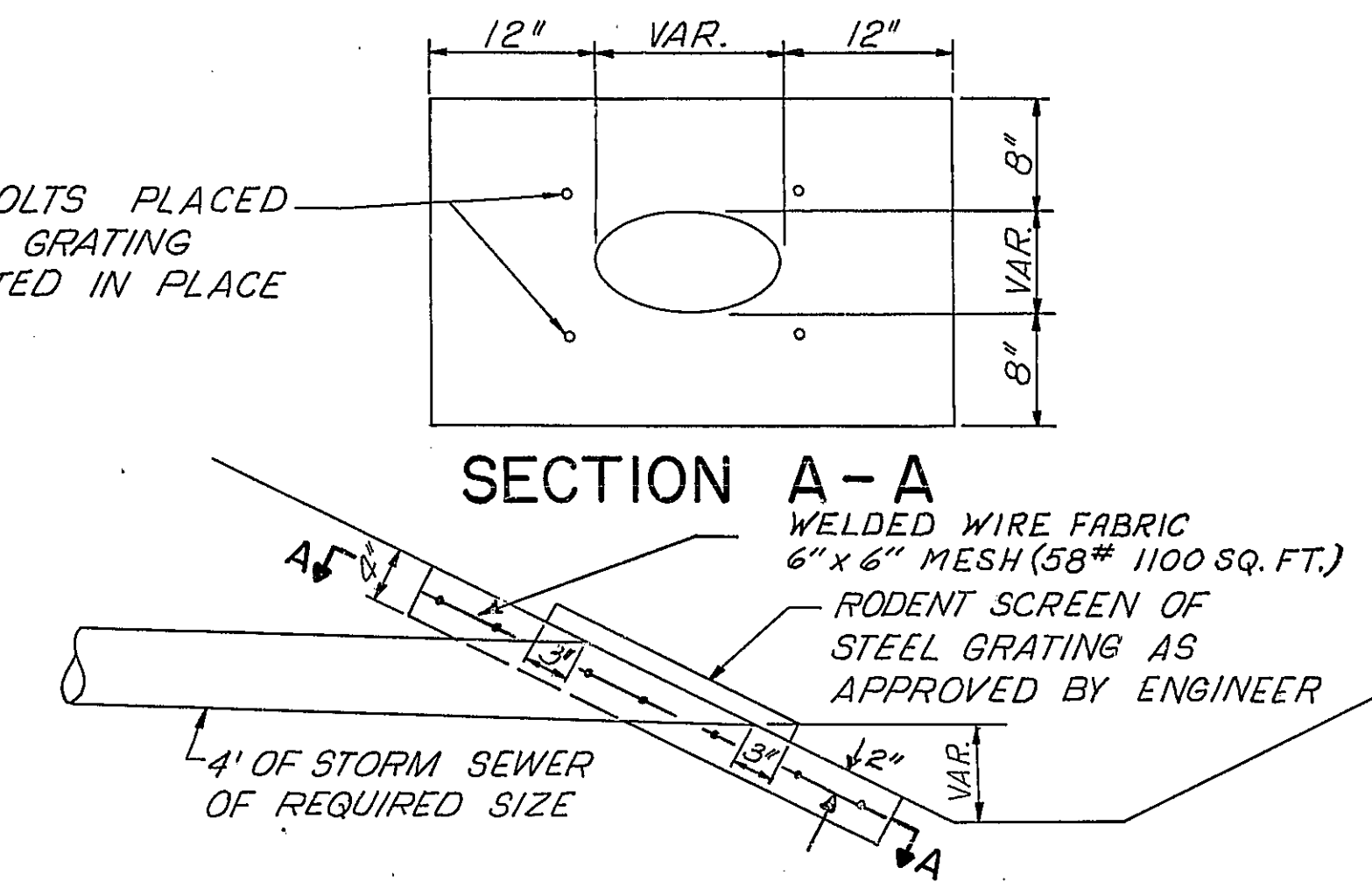
TEMPORARY PIER GUARD RAIL



DETAIL A



INSPECTION WELL
SCALE: NONE



PAVED OUTLET AND RODENT SCREEN
FOR FIELD TILE
SCALE: 1" = 1'-0"

NOTE: TILE OUTLETS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST PER LINEAL FOOT FOR STORM SEWERS OF THE TYPE SPECIFIED. (SEE SPECIAL PROVISIONS.)
THE WELDED WIRE FABRIC SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ALL ITEMS IN THIS CONTRACT.

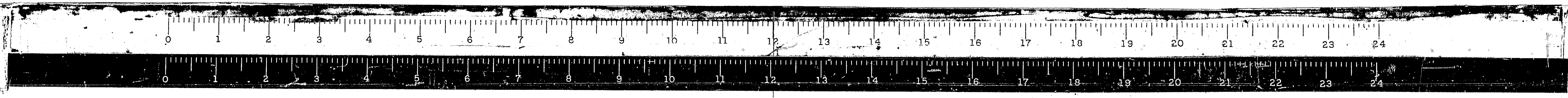
GENERAL NOTE:
PAVED DITCHES SHALL BE TYPE B-6 CONSTRUCTED IN ACCORDANCE WITH STD. 2256.

- SPECIAL SYMBOLS
- M.L. MATCH LINE
 - T.G. TOP OF GRATE
 - ▲ PERMANENT SURVEY MARKER
 - W.W.F. WOVEN WIRE FENCE
 - ==== PAVED DITCH
 - ===== P.C.G. PAVEMENT REMOVAL

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

TYPICAL SECTIONS

WESTENHOFF AND NOVICK, INC.
CONSULTING ENGINEERS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68-44B	MONT.	ILLINOIS	44	5
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 4251	X771	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 4251	X771
201005	TREE REMOVAL, ACRES	ACRE	3.1	3.1		612437	MEDIAN INLET (2251)	EACH	1	1	
202001	EARTH EXCAVATION	CU YD	4,201	4,201		614057	GRATING	SQ FT	45	45	
203001	CHANNEL EXCAVATION	CU YD	18,961	18,961		616117	PAVED DITCH 6 FEET	LIN FT	5	5	
204001	BORROW EXCAVATION	CU YD	170,101	170,101		618001	SLOPE WALL 4 INCH	SQ YD	210		210
210001	TRENCH BACKFILL	CU YD	40	40		628001	STEEL PLATE BEAM GUARD RAIL, SINGLE RAIL	LIN FT	300	300	
X21601	TOP SOIL EXCAVATION	CU YD	6,088	6,088		X62801	TERMINAL SECTION, SINGLE RAIL	EACH	4	4	
X21602	TOP SOIL PLACEMENT	SQ YD	50,052	50,052		639001	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	20	20	
301001	AGGREGATE BASE COURSE, TYPE A	TON	1,943	1,943		* 642002	SEEDING, CLASS II	ACRE	6.3	6.3	
402001	AGGREGATE SURFACE COURSE, TYPE A	TON	109	109		* 642003	SEEDING, CLASS III	ACRE	7.4	7.4	
405001	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,327	1,327		* 642004	NITROGEN FERTILIZER NUTRIENT	POUND	1,369	1,369	
405003	BITUMINOUS MIXTURE COMPLETE	TON	593	593		* 642005	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1,054	1,054	
501002	REMOVAL OF EXISTING STRUCTURE	L SUM	1	1		* 642006	POTASSIUM FERTILIZER NUTRIENT	POUND	1,054	1,054	
502001	CLASS A EXCAVATION FOR STRUCTURES	CU YD	110	110	110	* 642007	AGRICULTURAL GROUND LIMESTONE	TON	27.4	27.4	
503004	PROTECTIVE COAT	SQ YD	1,260	1,260	1,260	* 643001	MULCH	TON	27.4	27.4	
504003	CLASS X CONCRETE	CU YD	675.2	122.9	552.9	* * 646001	ENGINEER'S FIELD OFFICE, TYPE A	EACH	1	1	
505008	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 36 IN.	LIN FT	146.5	146.5	146.5	210029	BRIDGE SEAT SEALANT	L SUM	1		1
507025	STUD SHEAR CONNECTORS	EACH	1,944	1,944	1,944	210079	BUILDING REMOVAL NO. 43	L SUM	1	1	
507030	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1	1	210080	BUILDING REMOVAL NO. 44	L SUM	1	1	
508005	ALUMINUM RAILING	LIN FT	670	670	670	210081	BUILDING REMOVAL NO. 45	L SUM	1	1	
511005	PIPE CULVERTS, TYPE 1A, 18"	LIN FT	60	60		210082	BUILDING REMOVAL NO. 46	L SUM	1	1	
511028	PIPE CULVERTS, TYPE 1, 24"	LIN FT	52	52		210083	BUILDING REMOVAL NO. 47	L SUM	1	1	
511050	PIPE CULVERTS, TYPE 1 RCCP 30"	LIN FT	64	64		210084	BUILDING REMOVAL NO. 48	L SUM	1	1	
511134	PIPE CULVERTS, TYPE 2 RCCP 54"	LIN FT	188	188		210085	BUILDING REMOVAL NO. 49	L SUM	1	1	
511169	PIPE CULVERTS, TYPE 3A, 36"	LIN FT	100	100		210086	BUILDING REMOVAL NO. 50	L SUM	1	1	
511915	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 54"	EACH	2	2		210087	BUILDING REMOVAL NO. 51	L SUM	1	1	
511830	CULVERT END SECTIONS 18"	EACH	2	2		210088	BUILDING REMOVAL NO. 52	L SUM	1	1	
511834	CULVERT END SECTIONS 30"	EACH	2	2		210089	BUILDING REMOVAL NO. 53	L SUM	1	1	
511835	CULVERT END SECTIONS 36"	EACH	2	2		210090	BUILDING REMOVAL NO. 54	L SUM	1	1	
511933	REINFORCED CONCRETE PIPE TEE, 54" PIPE WITH 36" RISE	EACH	1	1		210091	BUILDING REMOVAL NO. 55	L SUM	1	1	
511A02	PIPE CULVERTS, TYPE 1, 15" (TEMPORARY)	LIN FT	30	30		210092	BUILDING REMOVAL NO. 56	L SUM	1	1	
512001	REINFORCEMENT BARS	POUND	131,250	23,090	108,160	210093	BUILDING REMOVAL NO. 57	L SUM	1	1	
513013	FURNISHING STEEL PILES 10BP42	LIN FT	3,935	3,935	3,935	210094	BUILDING REMOVAL NO. 58	L SUM	1	1	
513026	DRIVING STEEL PILES	LIN FT	3,935	3,935	3,935	210095	BUILDING REMOVAL NO. 59	L SUM	1	1	
513033	TEST PILE STEEL 10BP42	EACH	2	2		210096	BUILDING REMOVAL NO. 60	L SUM	1	1	
514001	NAME PLATES	EACH	1	1	1	210227	EXPLORATION TRENCH (52 IN DEPTH)	LIN FT	100	100	
603011	STORM SEWERS, TYPE 1, 30"	LIN FT	3,240	3,240		210229	FILLING EXISTING CISTERNS	EACH	3	3	
603028	STORM SEWERS, TYPE 2, 8"	LIN FT	195	195		XZ1083	FILLING EXISTING WELLS-DUG	EACH	3	3	
603029	STORM SEWERS, TYPE 2, 10"	LIN FT	210	210		210274	PERMANENT BARRICADES	LIN FT	56	56	
603030	STORM SEWERS, TYPE 2, 12"	LIN FT	380	380		XZ1088	TRAFFIC CONTROL AND PROTECTION, STANDARD 2315	L SUM	1	1	
						603027	STORM SEWERS, TYPE 2, 6"	LIN FT	200	200	
						*** XZ1100	TRAINEES	HOUR	1,000		

* CONST. TYPE CODE Y005
 ** CONST. TYPE CODE CR58
 *** CONST. TYPE CODE Y080

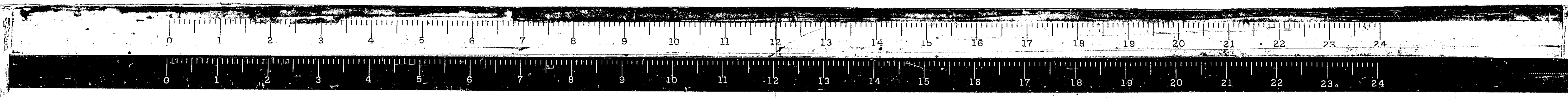
DESIGNED BY F.T.P.
 DRAWN BY S.D.D.
 CHECKED BY M.E.T.
 APPROVED BY _____

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

SUMMARY OF QUANTITIES

WESTENHOFF AND NOVICK, INC.
 CONSULTING ENGINEERS

Revised: 5-21-71



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI.55	68-442	MONT.	44	6
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				

PAVEMENT QUANTITIES

STATION	LENGTH FT.	9" AGGREGATE BASE COURSE, TYPE "A"		BITUMINOUS MATERIALS PRIME COAT		3" BITUMINOUS MIX COMPLETE	
		WIDTH (FEET)	TONS	WIDTH (FEET)	GALLONS	WIDTH (FEET)	TONS
<u>E.F.R. #3</u>							
1261+50 - 1276+50	1,500	21.5	1,836	21.5	1,254	20	560
<u>T.R. 57</u>							
51+76 - 52+46	70	21.5	84	21.5	98	20	26
RETURN	---	VARIES	23	VARIES	15	VARIES	7
TOTALS			3,943		2,327		593

RIGHT OF WAY MARKERS

ROADWAY	STATION	OFFSET & SIDE
<u>E.A.S. 55</u>	1259+00	200' LT
	1261+00	169' LT
	1262+17.01	169' LT
	1262+57.01	169' LT
	1263+00	169' LT
	1270+00	174' LT
	1279+00	50' LT
	1282+99.00	75' LT
	1288+97.00	75' LT
	1294+75	50' LT
<u>CH - 16A CONNECTOR</u>	40+05	33' RT
	42+06	33' RT
<u>CH - 16A</u>	40+70	40' RT
	40+70	40' RT
	42+20	50' RT
	42+35	50' RT
	43+50	60' RT
	43+50	50' RT
	48+19	105' RT
	48+25	100' RT
TOTAL		20

CLASS "C" CONCRETE

ROADWAY	STATION	LOCATION	STRUCTURE	CU. YD.
E. FR. RD. #3	1262+50	RT	INLET BOX	1.2
	1262+86	RT	INLET BOX	1.2
	1275+70	RT	TWIN BOX CULVERT	51.2
<u>CH-16A (REL)</u>	48+08.67 TO 51+47.92		BRIDGE	552.9
<u>TR-57</u>	51+95	LR	TWIN BOX CULVERT	48.7
TOTAL				615.2

BUILDING REMOVAL

NUMBER	STATION	OFFSET	REMARKS
43	1284+80	210' LT	SHRETT METAL
44	1285+00	70' LT	WOOD FRAME
45	1285+20	3' RT	WOOD FRAME
46	1285+40	155' LT	WOOD FRAME - CONCRETE BLOCK FOUNDATION
47	1285+25	215' LT	WOOD FRAME
48	1284+75	308' LT	PUMP HOUSE
49	1286+75	230' LT	SHED
50	1286+30	155' LT	WOOD FRAME
51	1286+25	105' LT	MILKING PARLOR
52	1286+30	45' LT	BARN
53	1287+10	300' LT	WOOD FRAME
54	1287+40	170' LT	WOOD FRAME
55	1287+20	210' LT	WOOD FRAME
56	1287+90	70' LT	2 STORY FRAME & ATTIC
57	1286+80	125' LT	WOOD FRAME
58	1288+65	160' LT	WOOD FRAME
59	1288+70	100' LT	FRAME GARAGE
60	1288+35	120' LT	WATER
TOTAL		18	

TERMINAL SECTION, SINGLE RAIL

SIDE	STATION TO STATION	FEET
E.F.R. #3 LT	1261+50 - 1261+75	1
T.R. 57 LT	53+03 - 53+28	3
T.R. 57 RT	53+02 - 53+28	3
E.F.R. #3 LT	1262+85 - 1263+10	1
	TOTAL	8

STEEL PLATE BEAM GUARD RAIL

SIDE & STATION	LENGTH
E.F.R. #3 LT, 1261+75 TO T.R. 57 LT, 53+03	150'
T.R. 57 RT, 53+03 TO E.F.R. #3 LT, 1262+85	150'
TOTAL	300'

DITCH LININGS (B-6)

ROADWAY	STATION	SIDE	LENGTH FT.	PAVED DITCH FT.
E. FR. RD. #3	1263+04	LT	5	5
TOTAL			5	5

FILL EXISTING WELLS

ROADWAY	STATION	OFFSET
E.A.I. 55	1276+60	110' LT
	1286+30	75' LT
	1287+65	55' LT
TOTAL		3

FILL EXISTING CISTERNS

ROADWAY	STATION	OFFSET
E.A.I. 55	1287+68	78' LT
TOTAL		1

TREE REMOVAL

ROADWAY	STATION TO STATION	ACRES
EAI-55	1284+55 - 1291+00	3.1
TOTAL		3.1

PERMANENT BARRICADES

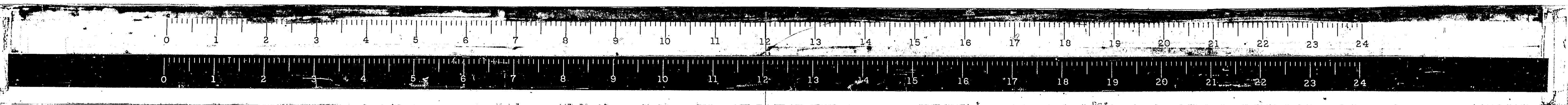
ROADWAY	STATION	LENGTH FT.
E. FR. RD. #3	1261+50	28
	1276+50	28
TOTAL		56

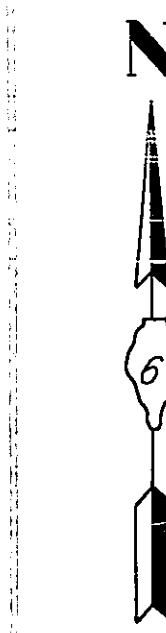
DESIGNED BY F.P.P.
 DRAWN BY S.D.D.
 CHECKED BY W.E.T.
 APPROVED BY _____

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

SCHEDULES OF QUANTITIES

WESTENHOFF AND NOVICK, INC.
 CONSULTING ENGINEERS

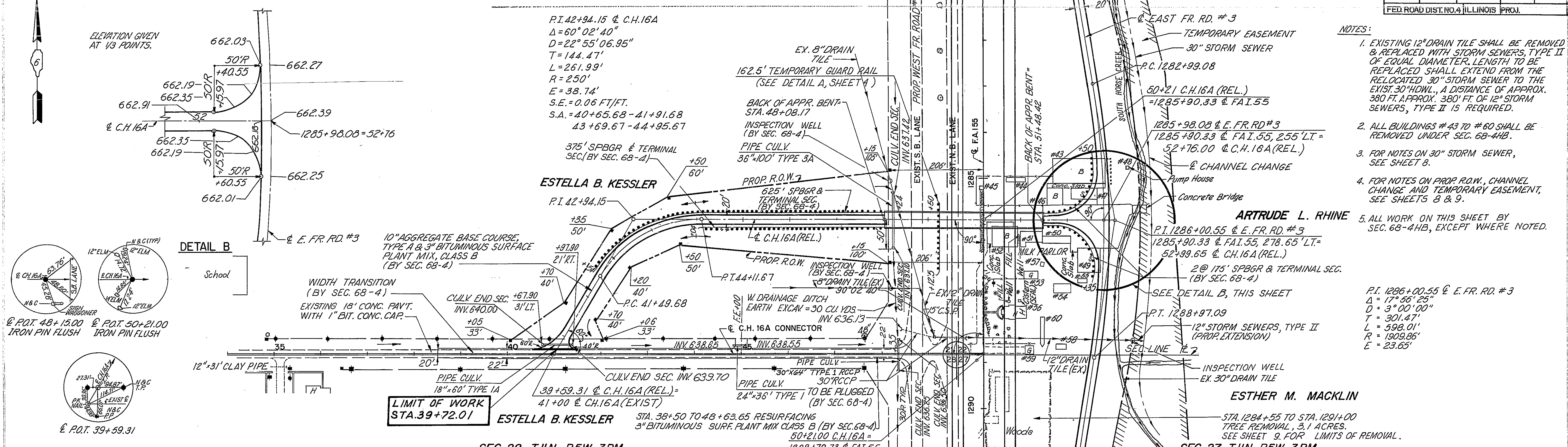




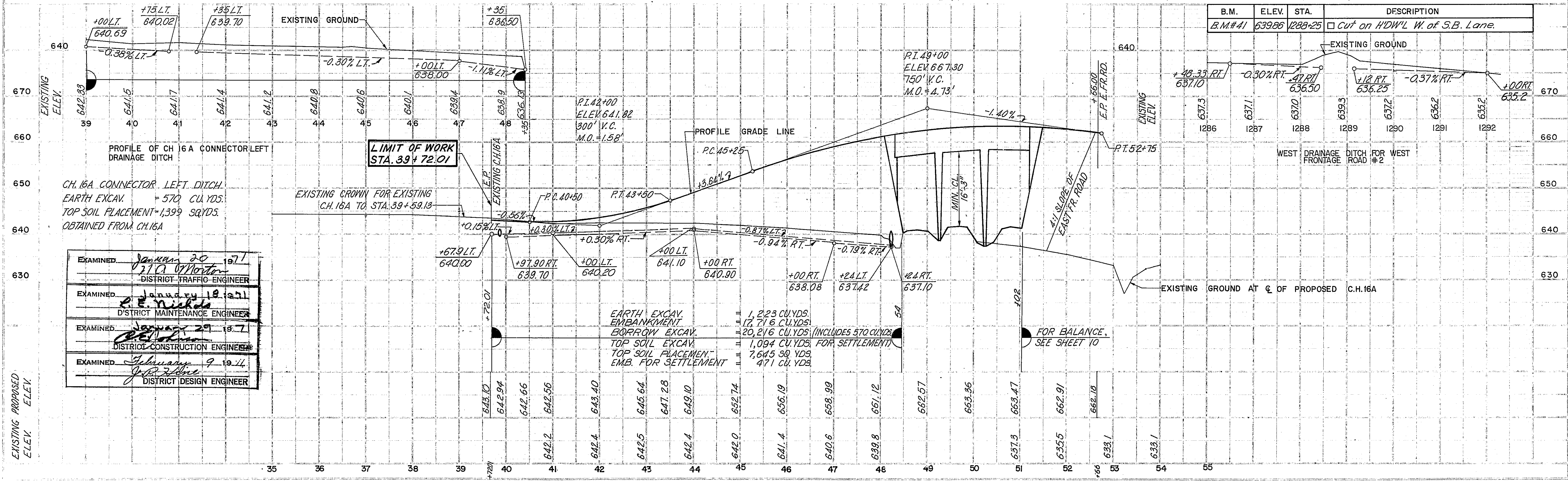
SEC. 21 TIIN R5W 3PM

SEC. 22 TIIN R5W 3PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 55	68-4HB	MONT.	44	7
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				

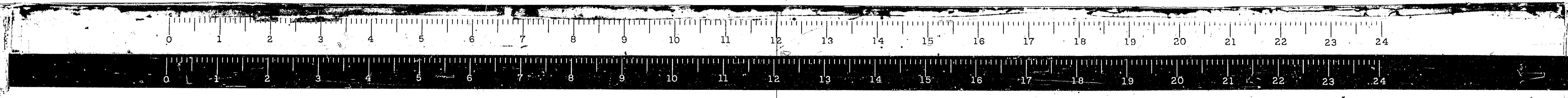


- NOTES:**
- EXISTING 12" DRAIN TILE SHALL BE REMOVED & REPLACED WITH STORM SEWERS, TYPE II OF EQUAL DIAMETER. LENGTH TO BE REPLACED SHALL EXTEND FROM THE RELOCATED 30" STORM SEWER TO THE EXIST. 30" HOWL. A DISTANCE OF APPROX. 380 FT. APPROX. 380' FT. OF 12" STORM SEWERS, TYPE II IS REQUIRED.
 - ALL BUILDINGS #43 TO #60 SHALL BE REMOVED UNDER SEC. 68-4HB.
 - FOR NOTES ON 30" STORM SEWER, SEE SHEET 8.
 - FOR NOTES ON PROP. ROW, CHANNEL CHANGE AND TEMPORARY EASEMENT, SEE SHEETS 8 & 9.
 - ALL WORK ON THIS SHEET BY SEC. 68-4HB, EXCEPT WHERE NOTED.

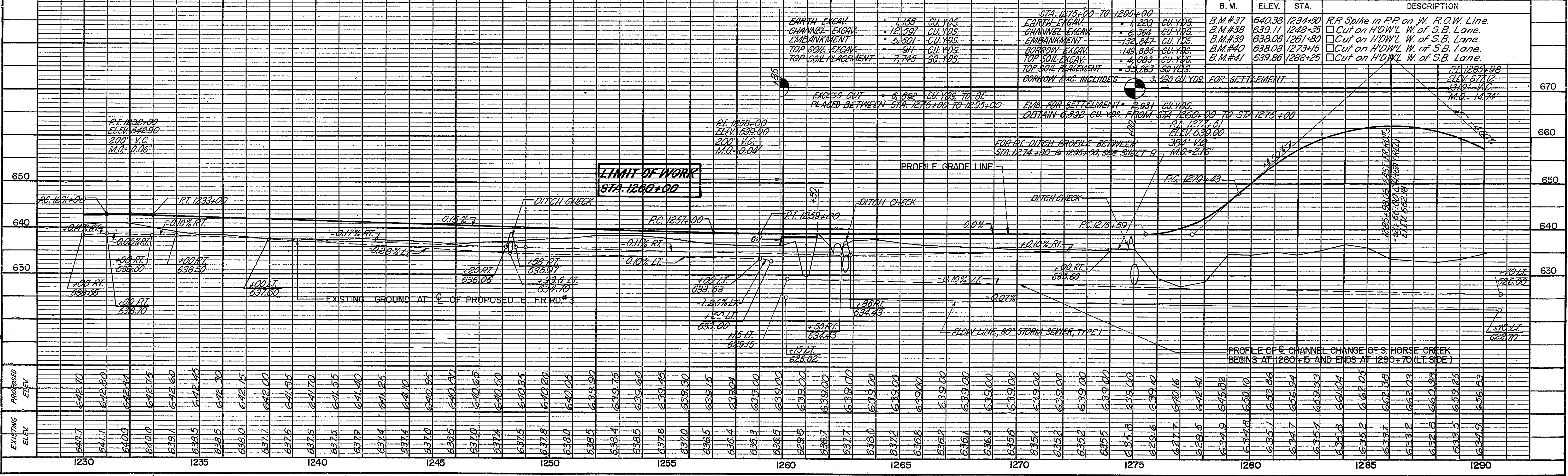
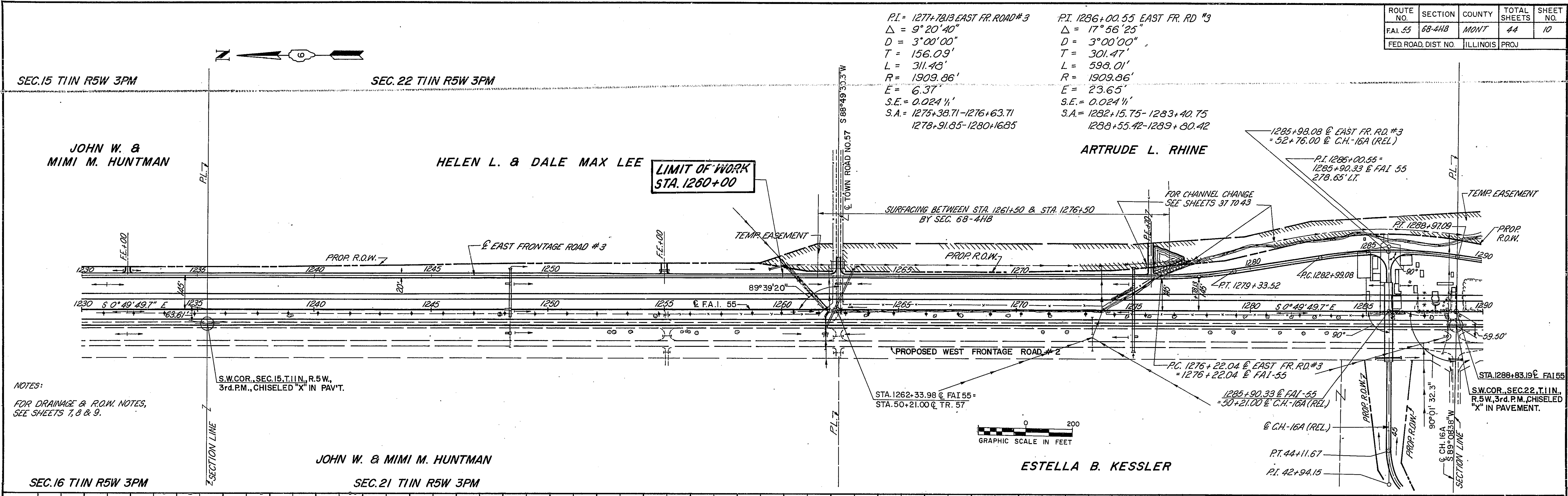


EXAMINED	January 20 1971	DISTRICT TRAFFIC ENGINEER
EXAMINED	February 18 1971	DISTRICT MAINTENANCE ENGINEER
EXAMINED	February 20 1971	DISTRICT CONSTRUCTION ENGINEER
EXAMINED	February 9 1971	DISTRICT DESIGN ENGINEER

EXISTING PROPOSED
ELEV. ELEV.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 55	68-4HB	MONT	44	10
FED. ROAD DIST. NO.		ILLINOIS PROJ.		

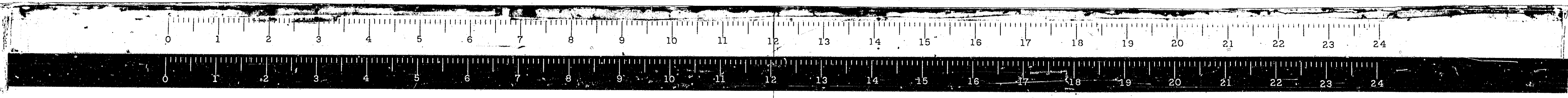


DATE	
BY	
REVISIONS	
PLANNED	
ALLOTTED	
ALIGNED	
CHECKED	
IN CHARGE	
NOTE BOOK	
NO.	

DATE	
BY	
REVISIONS	
PLANNED	
ALLOTTED	
ALIGNED	
CHECKED	
IN CHARGE	
NOTE BOOK	
NO.	

PLATE 1 PLAN, PROFILE & P & R STANDARD
ENGINE DESIGN CO. CHICAGO - NEW YORK

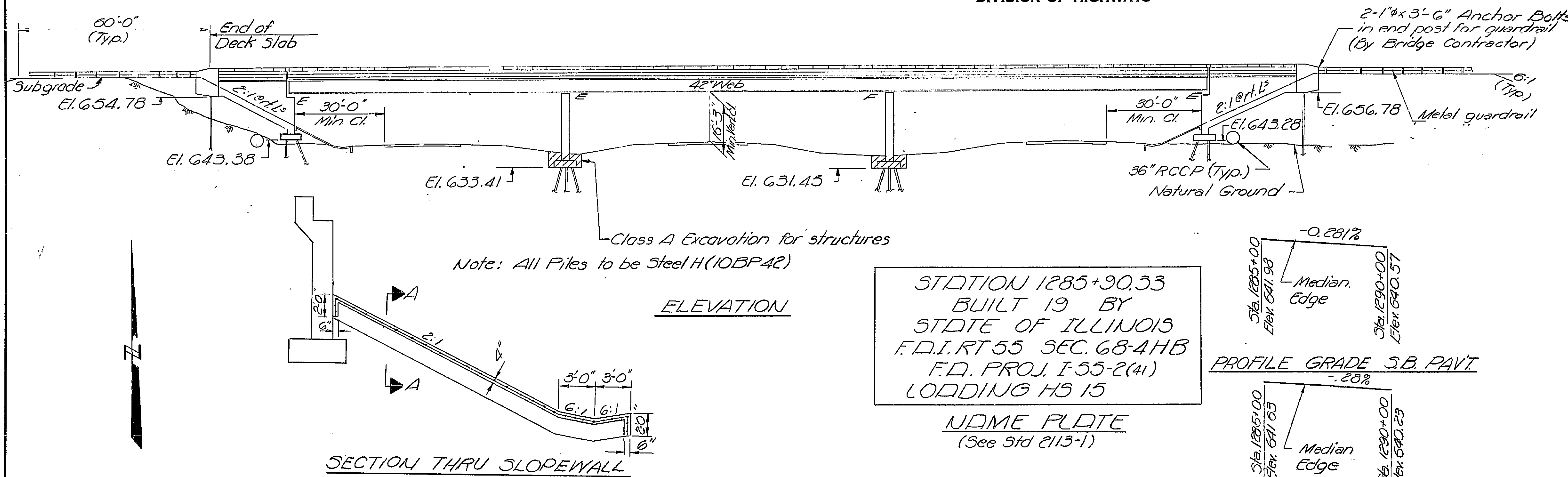
STA. 1230+00 TO STA. 1290+00 E. FR. RD. #3



BM #41 a cut on Headwall West of Existing South Bound Lanes at Station 1285+25 Elev. 639.86

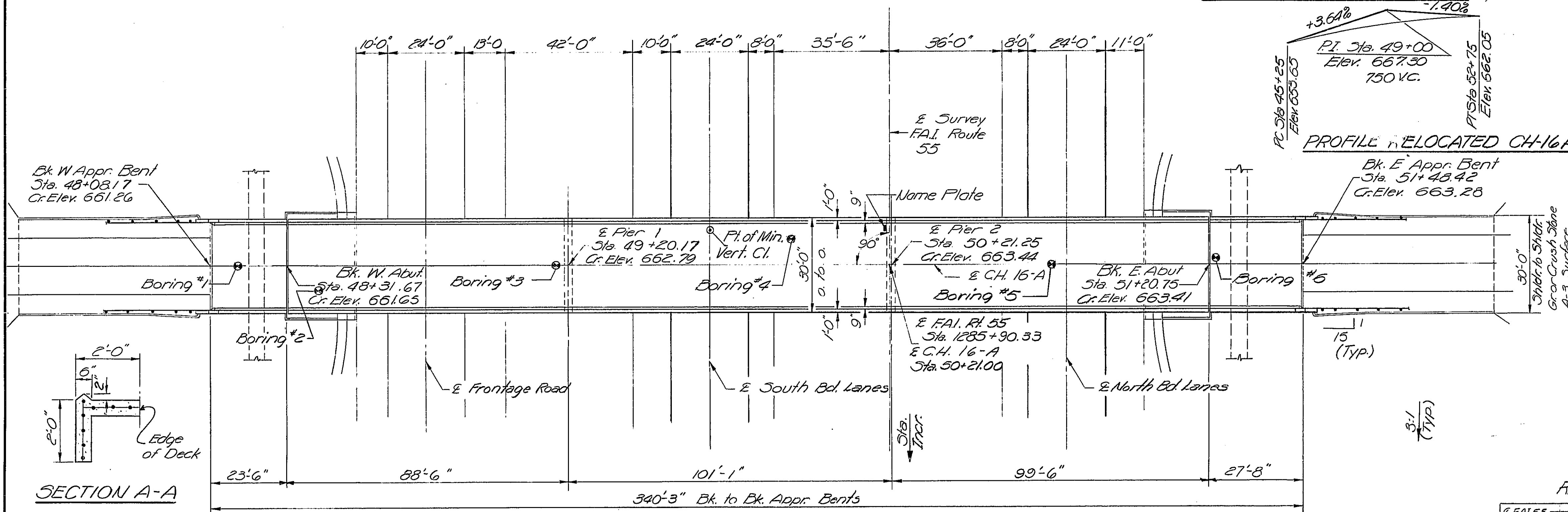
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
1-55	68-4HB	Mont.	44	12	20 SHEETS



GENERAL NOTES
All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
Fasteners shall be high strength bolts. Bolts 3/8"; open holes 15/16", unless otherwise noted.
Calculated weight of Structural Steel = 24,390 Lbs.

The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.
Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting diaphragms over supports.
Slope wall shall be reinforced with welded wire fabric 6"x 6" mesh, weighing 58# per 100 sq. ft.
The Contractor shall drive two steel test piles in a permanent location One at the West Abut. and One at Pier 2 as directed by the Engineer before ordering the remainder of piles.
Class A Excavation for structures includes excavation for slope wall.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
An alternate strand pattern using Extra High Strength Prestressing strand (270 k.s.i.) is permitted.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Class D Excavation for Struct.	Cu. Yds.		110	110
Protective Coat	Sq. Yds.	1260		1260
Class X Concrete	Cu. Yds.	318.7	234.2	552.9
Structural Steel	L.S.			L.S.
Stud Shear Connectors	Each	1944		1944
Aluminum Railing	Lin. Ft.	670		670
Reinforcement Bars	Lbs.	73380	34780	108160
Steel Piles 10BP42	Lin. Ft.		5935	5935
Test Piles (Steel 10BP42)	Each		2	2
Name Plates	Each		1	1
Slope Wall (A')	Sq. Yds.		210	210
Bridge Seat Sealant	L.S.			L.S.
Precast Prestressed Concrete Beams (36")	Lin. Ft.	146.5		146.5

* Applied at Abutments only.

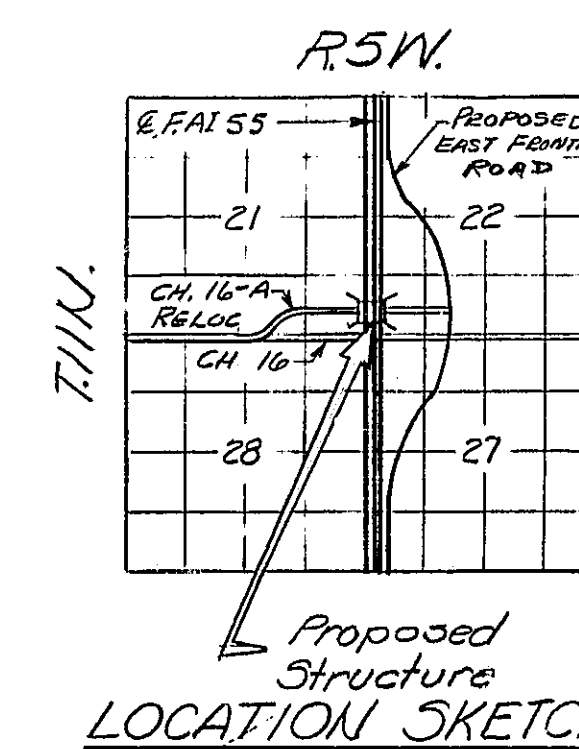
DESIGNED D.A. Ryan
CHECKED Ruv. G.K.
DRAWN J.H.
CHECKED Rao. G.K.

APRIL 22 1970
EXAMINED
PASSED
APPROVED

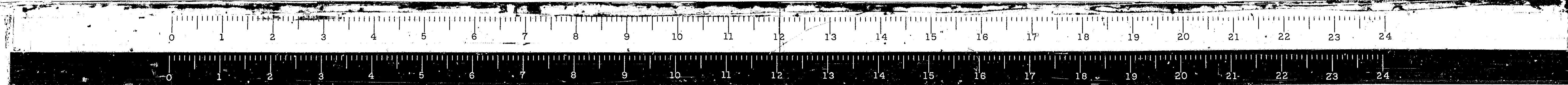
PRECAST PRESTRESSED UNITS

FIELD UNITS

LOADING HS 15-44

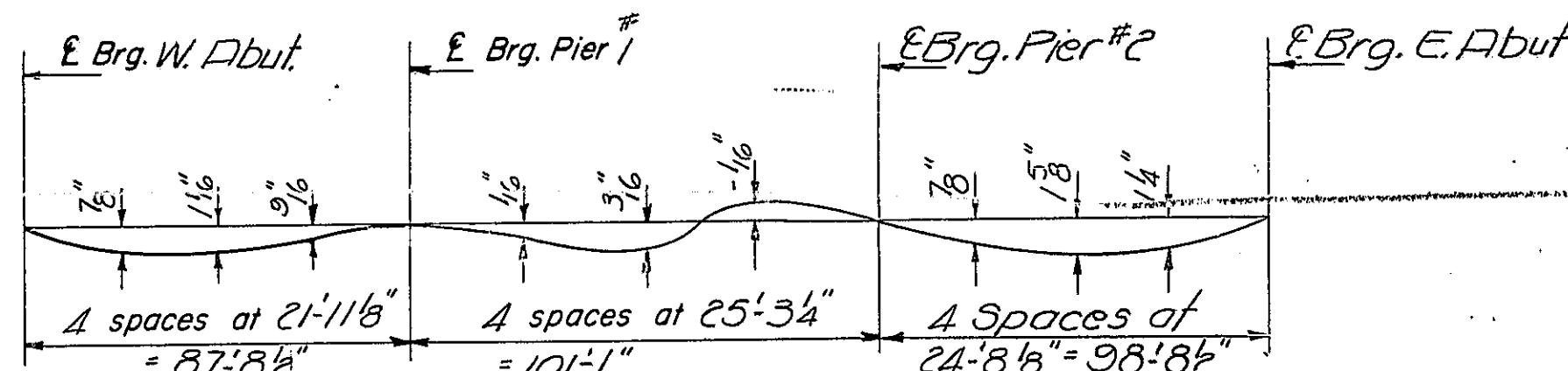


GENERAL PLAN & ELEVATION
F.D. PROJ. 55-2(41) 66
CH. 16 A OVER FAI. RT. 55
SECTION 68-4HB
MONTGOMERY COUNTY
STA. 1285+90.33



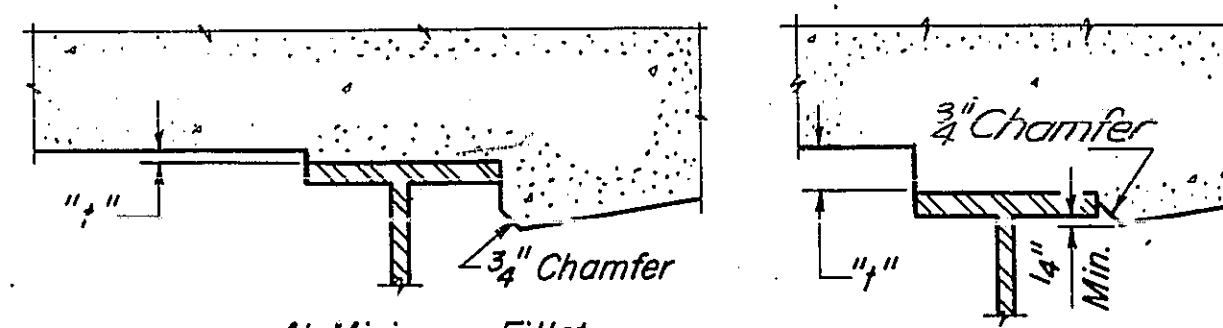
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1.55	66-41B	Mont	14	13
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



DEAD LOAD DEFLECTION DIAGRAM (Main Spans)

(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "f" above top flange of beams.

FILLET HEIGHTS (Main Spans)

MAIN SPANS

WEST APPROACH

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West App. Bent E Brg.	4808.170	6.375	661.229	661.224
			661.251	661.251
			661.420	661.420
			661.583	661.583
E Brg.	4850.920	6.375	661.607	661.607
			661.263	661.263
			661.285	661.285
			661.454	661.454
E Brg.	4829.420	0.0	661.617	661.617
			661.641	661.641
			661.420	661.420
			661.420	661.420

Girders 1&4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	4831.670	12.000	661.536	661.536
E Brg. West Abut.	4832.460	12.000	661.549	661.549
			661.703	661.736
			661.890	661.916
			661.991	662.009
			662.124	662.211
			662.252	662.329
			662.312	662.429
			662.486	662.522
			662.593	662.609
			662.671	662.671
			662.765	662.767
			662.854	662.856
E Brg. Pier #1	4920.170	12.000	662.671	662.671
			662.765	662.767
			662.854	662.856
			662.936	662.941
			663.011	663.020
			663.079	663.093
			663.140	663.147
			663.195	663.193
			663.243	663.238
			663.284	663.282
			663.315	663.315
			663.322	663.322
E Brg. Pier #2	5021.250	12.000	663.322	663.322
			663.349	663.378
			663.370	663.427
			663.384	663.448
			663.391	663.500
			663.391	663.523
			663.384	663.516
			663.371	663.492
			663.351	663.432
			663.325	663.362
			663.296	663.296
			Bk. East Abut.	5120.750
663.293	663.293			

Girders 2&3

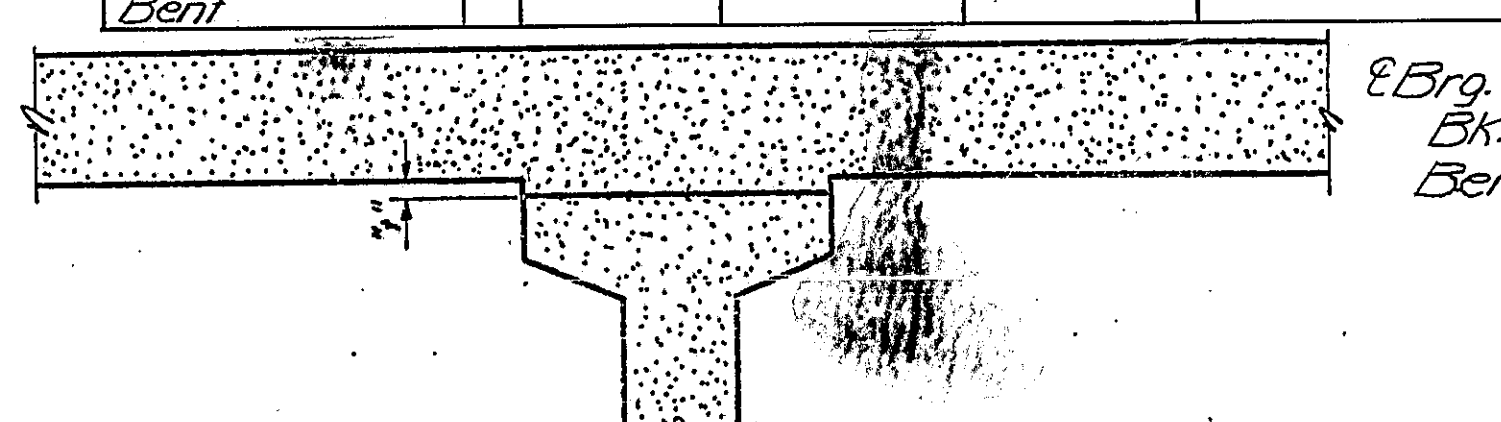
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	4831.670	4.000	661.639	661.639
E Brg. West Abut.	4832.460	4.000	661.652	661.652
			661.805	661.839
			661.993	662.019
			662.056	662.175
			662.228	662.314
			662.355	662.432
			662.475	662.533
			662.589	662.626
			662.696	662.712
			662.774	662.774
			662.869	662.870
			662.957	662.969
E Brg. Pier #1	4920.170	4.000	662.974	662.974
			663.068	663.068
			663.114	663.123
			663.182	663.195
			663.244	663.250
			663.298	663.297
			663.346	663.341
			663.388	663.385
			663.422	663.422
			663.426	663.426
			663.453	663.482
			663.473	663.531
E Brg. Pier #2	5021.250	4.000	663.473	663.473
			663.487	663.571
			663.494	663.604
			663.494	663.627
			663.488	663.609
			663.475	663.585
			663.455	663.535
			663.428	663.466
			663.400	663.400
			663.397	663.397
			663.397	663.397
			663.397	663.397

E Roadway

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	4831.670	0.0	661.653	661.653
E Brg. West Abut.	4832.460	0.0	661.665	661.665
			661.819	661.852
			661.967	662.193
			662.107	662.186
			662.241	662.328
			662.368	662.446
			662.489	662.546
			662.602	662.639
			662.709	662.725
			662.787	662.787
			662.882	662.883
			E Brg. Pier #1	4920.170
662.971	662.973			
663.052	663.057			
663.127	663.137			
663.195	663.210			
663.257	663.264			
663.312	663.310			
663.360	663.354			
663.401	663.398			
663.436	663.435			
663.439	663.439			
663.466	663.495			
E Brg. Pier #2	5021.250	0.0	663.466	663.466
			663.487	663.544
			663.500	663.595
			663.507	663.617
			663.508	663.640
			663.501	663.623
			663.488	663.599
			663.468	663.549
			663.442	663.479
			663.413	663.413
			663.410	663.410

EAST APPROACH

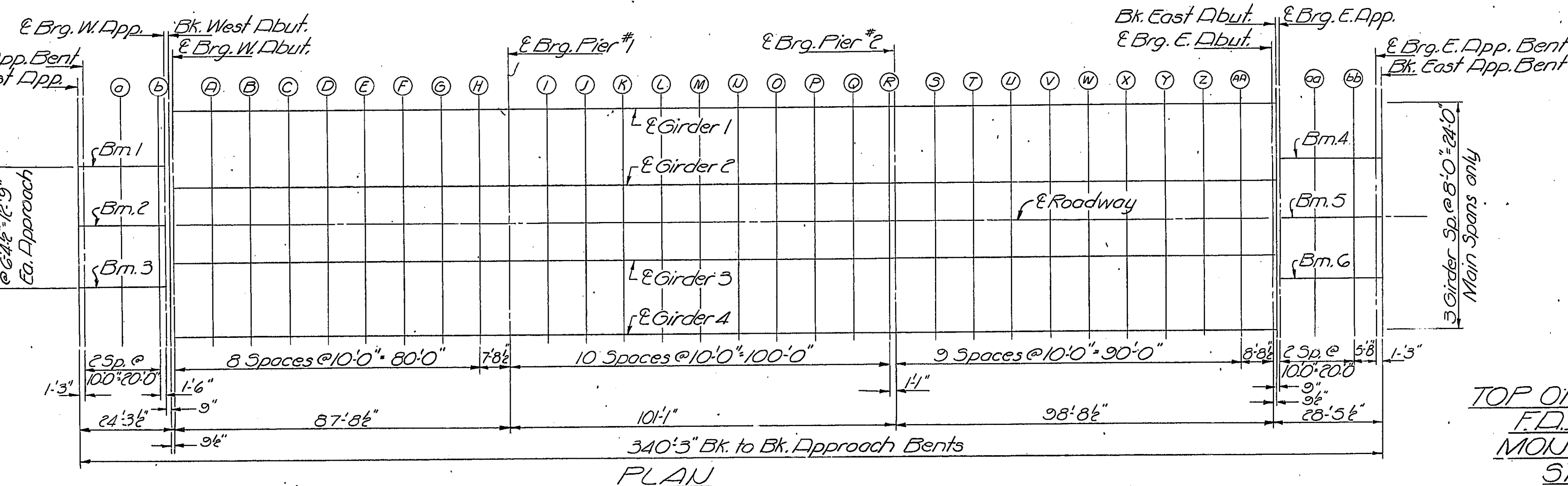
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E Brg.	5121.500	6.375	663.373	663.373
			663.333	663.333
			663.286	663.286
			663.257	663.257
Bk. East App. Bent E Brg.	5148.420	6.375	663.250	663.250
			663.407	663.407
			663.367	663.367
			663.320	663.320
E Brg.	5147.170	0.0	663.291	663.291
			663.284	663.284
			663.284	663.284
			663.284	663.284



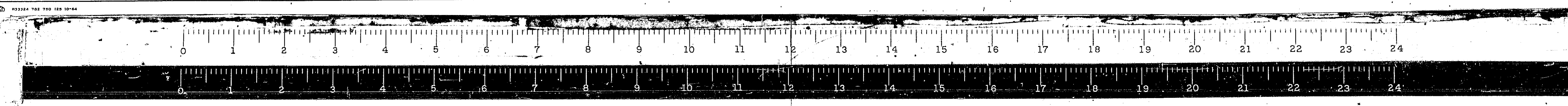
FILLET HEIGHTS (Approach Spans)

To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on the elevation sheet. These elevations subtracted algebraically from "Grade Elevations Adjusted for Dead Load Deflections" minus slab thickness, equals the fillet heights "f". A positive value of "f" equals the fillet height above the top of the beam. A negative value of "f", not to exceed 1/2", equals the embedment of the beam above the theoretical bottom of slab elevation.

DESIGNED D.A. Ryan	APPROVED
CHECKED Rao.G.K	APPROVED
DRAWN J.D.	APPROVED
CHECKED Rao.G.K	APPROVED



TOP OF SLAB ELEVATIONS
F.D.I. RT. 55 SEC. 68-41B
MONTGOMERY COUNTY
STA. 1285+90.33

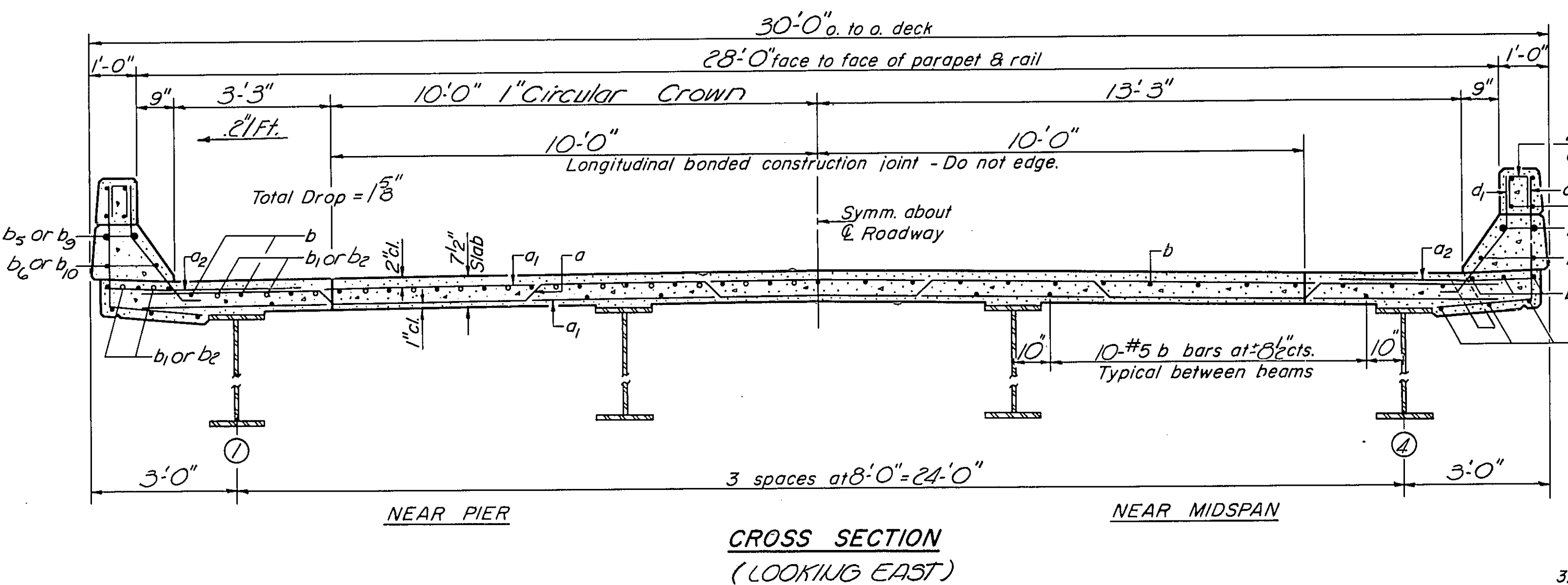
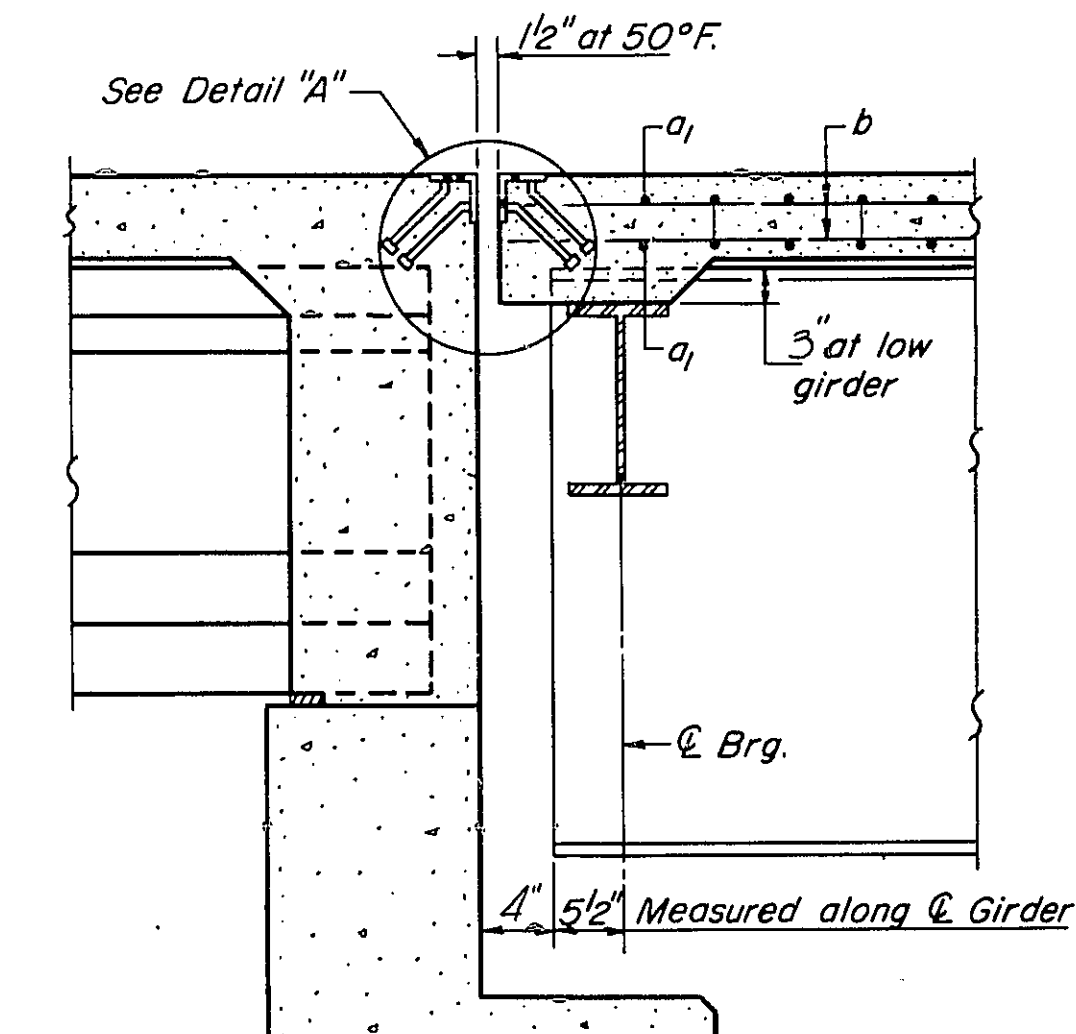
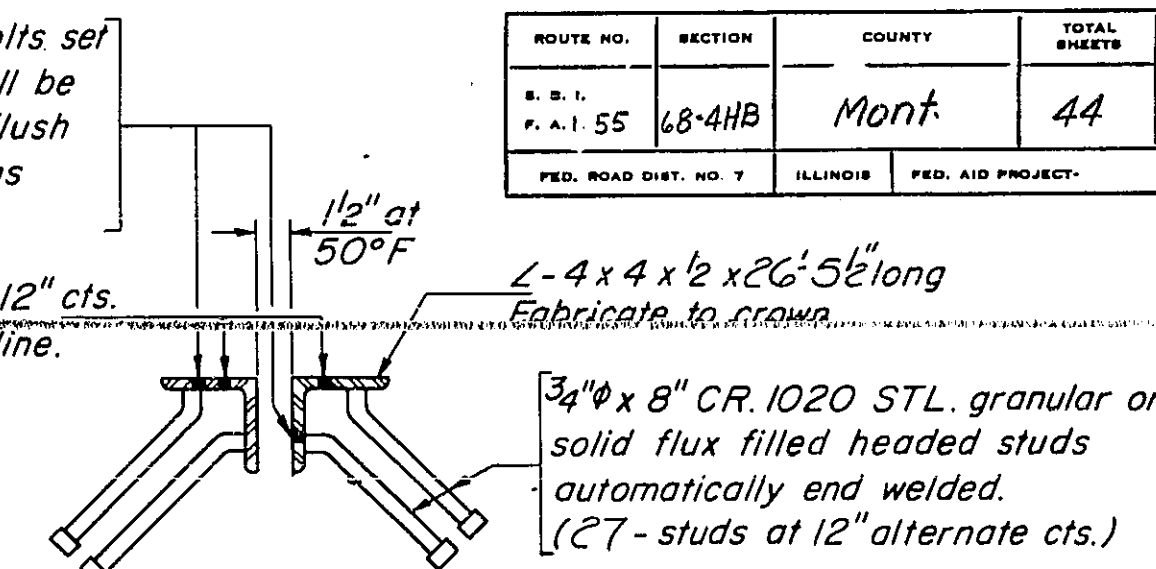
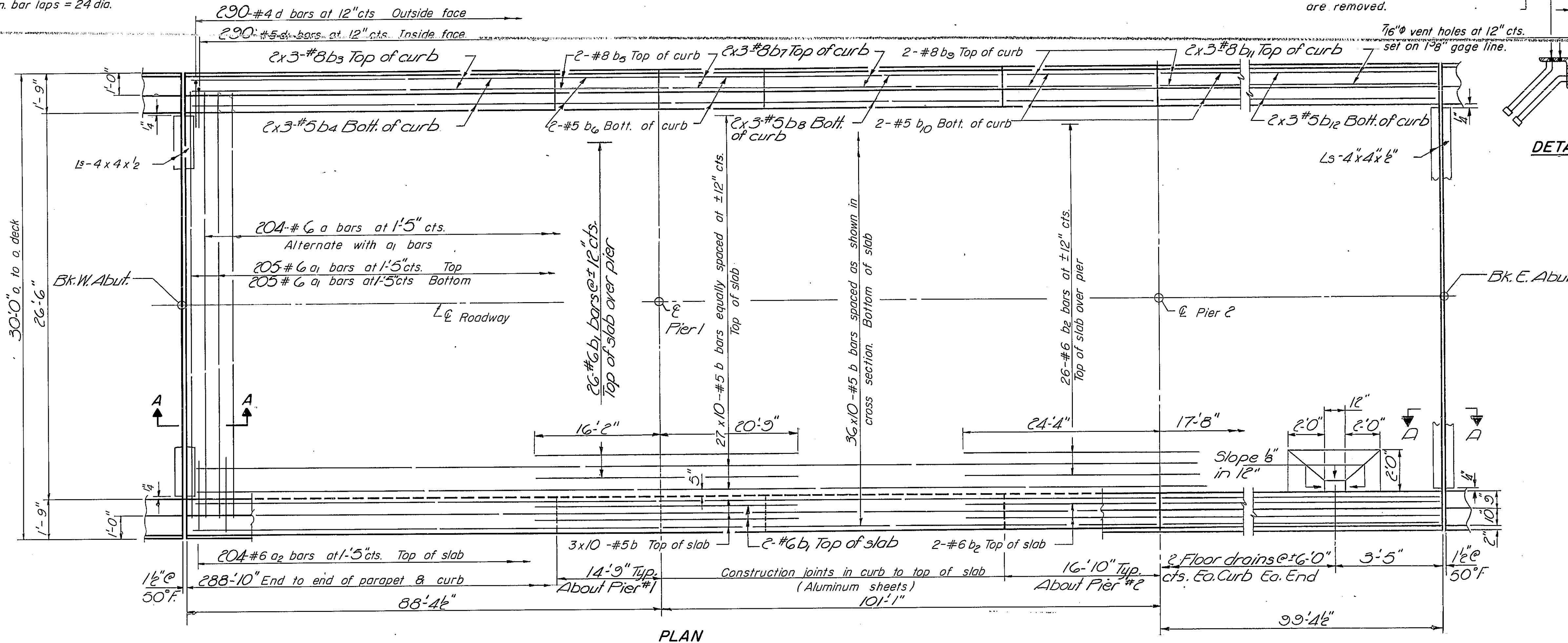


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
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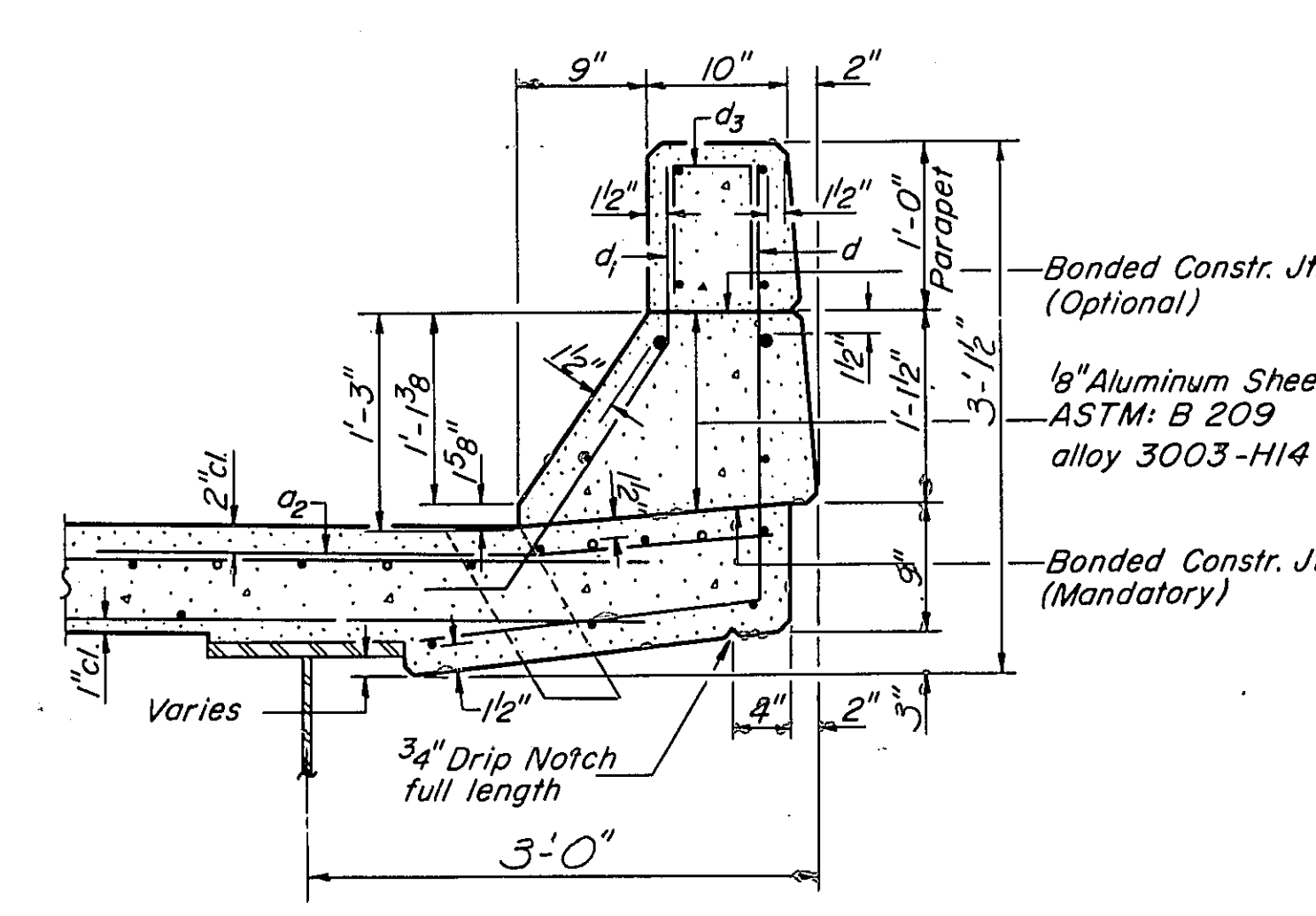
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 155	68-4HB	Mont.	44	14
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 3
20 SHEETS

NOTE:
Bars indicated thus 20x3-#5 etc.
indicates 20 lines of bars with 3
lengths per line.
Min. bar laps = 24 dia.



NOTE: For placement of bars d_3 and a_1 thru e_5 see sheet #6



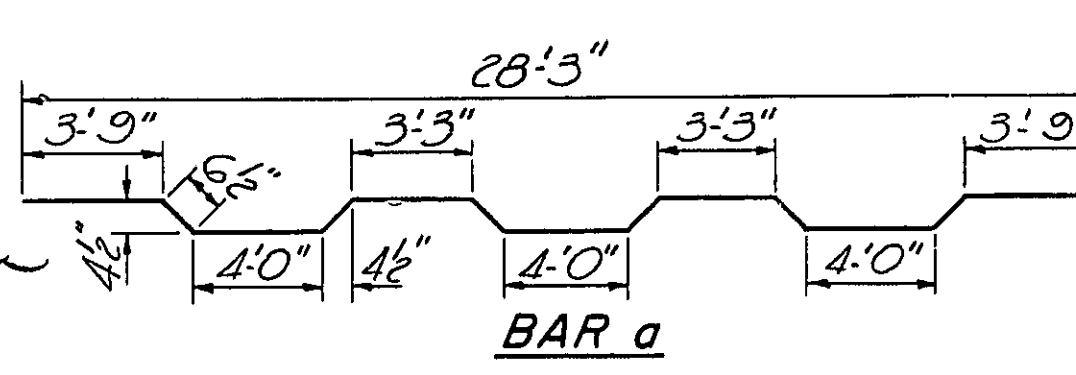
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	204	#6	29.3'	
a_1	410	#6	28.3'	
a_2	408	#6	4.0'	
b	690	#5	30.0'	
b_1	30	#6	36.11'	
b_2	30	#6	42.0'	
b_3	12	#8	25.9'	
b_4	12	#6	25.6'	
b_5	8	#8	14.6'	
b_6	8	#6	14.6'	
b_7	12	#8	24.6'	
b_8	12	#5	24.0'	
b_9	8	#6	16.7'	
b_{10}	8	#5	16.7'	
b_{11}	12	#8	28.9'	
b_{12}	12	#5	28.6'	
d	580	#4	4.5'	J
d_1	580	#5	5.3'	J

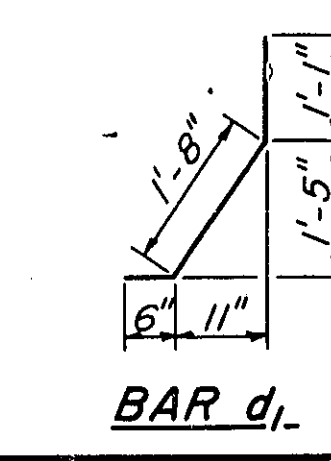
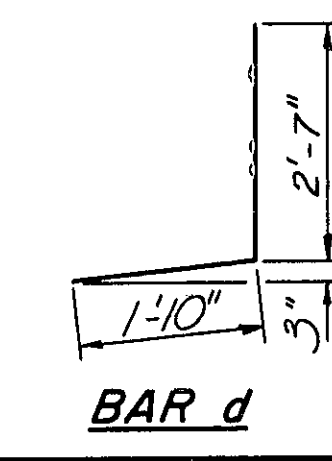
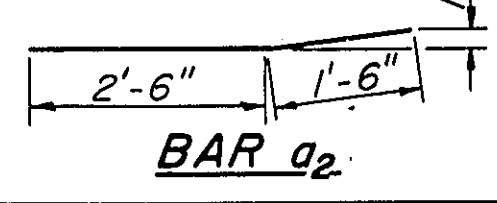
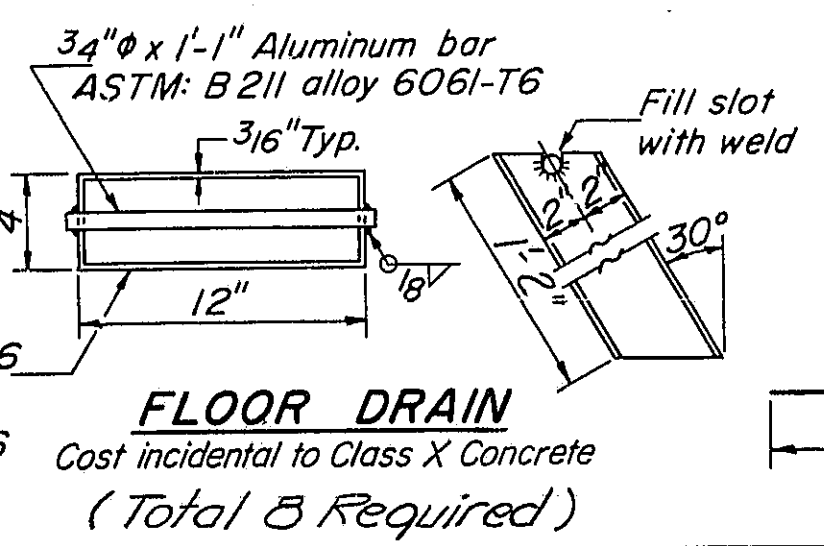
Reinforcement Bars	Lbs.	62060
Class X Concrete	Cu. Yds.	212.5
Stud Shear Connectors	Each	1944

DESIGNED *D.A. Ryan*
CHECKED *Rae G.K.*
DRAWN *J.D.*
CHECKED *Rae G.K.*

APRIL 22 1970
EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*



Aluminum Sheets Welded
ASTM: B209 alloy 6061-T6
or Aluminum Extrusions
ASTM: B221 alloy 6061-T6



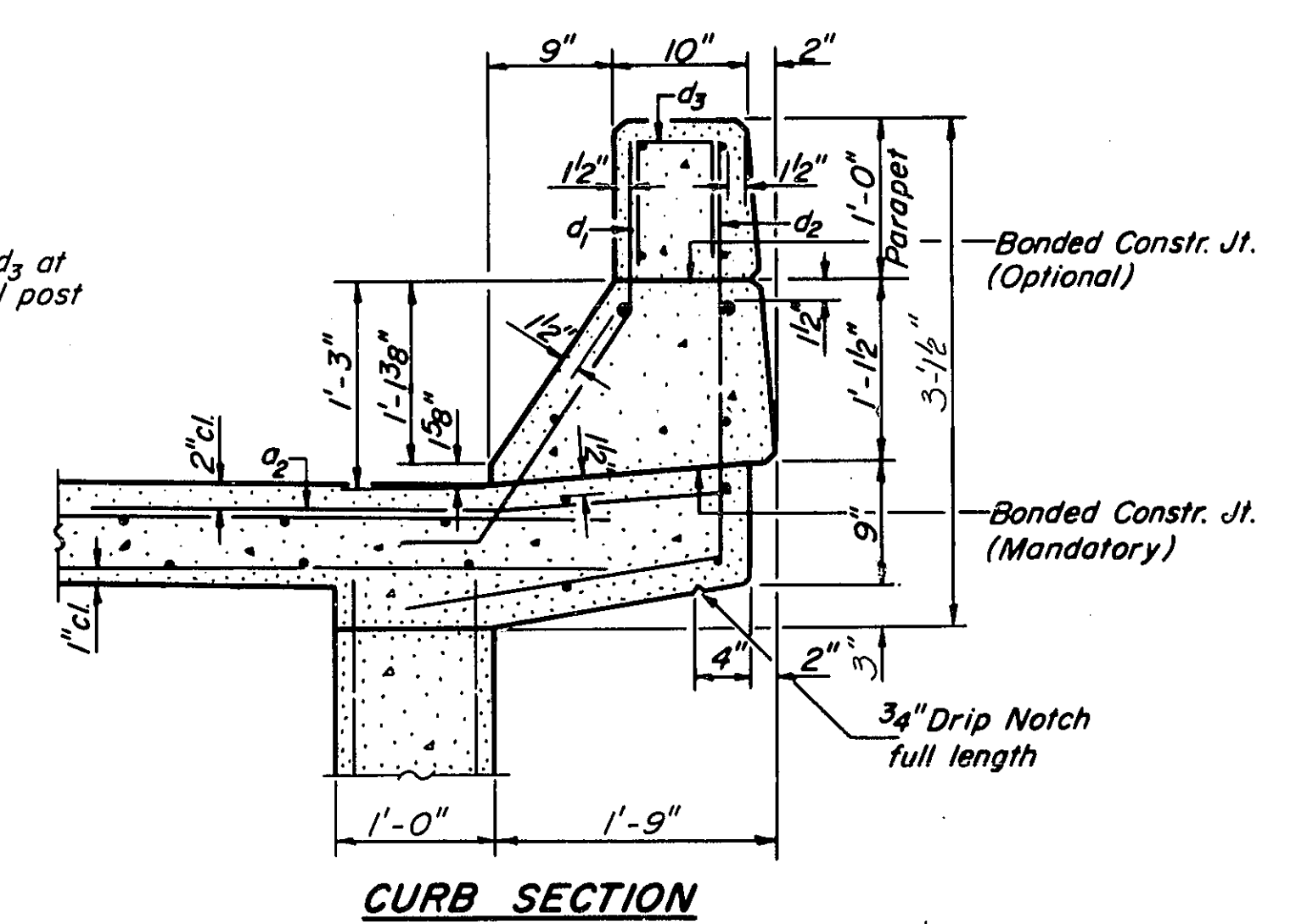
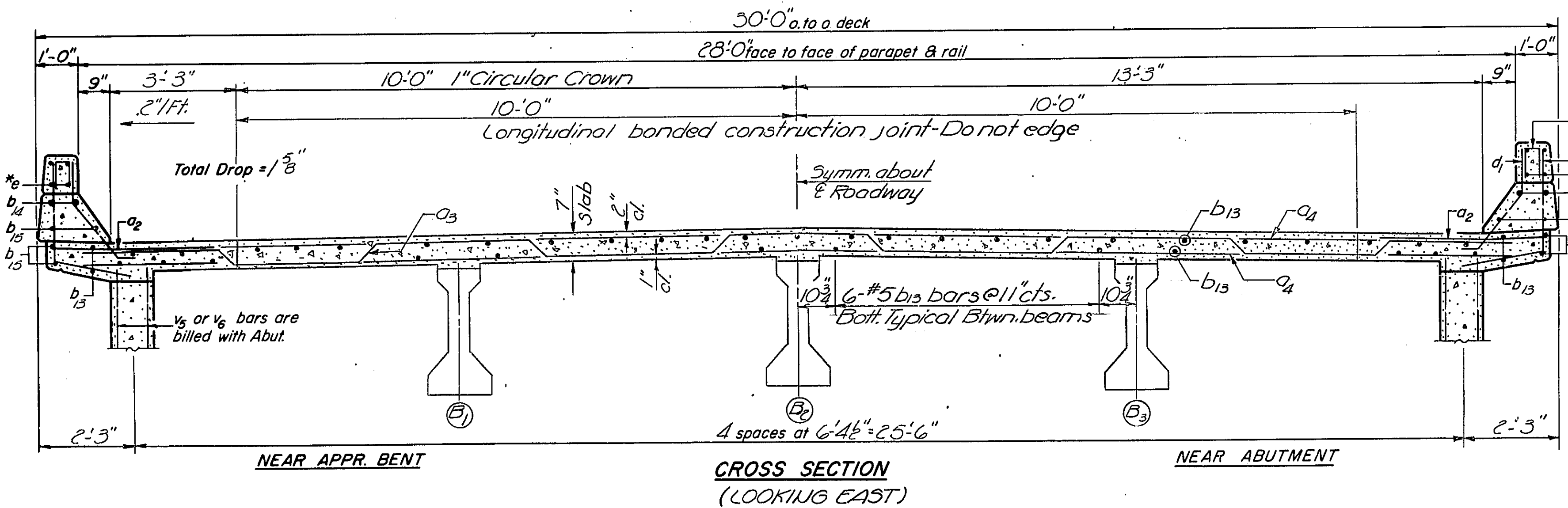
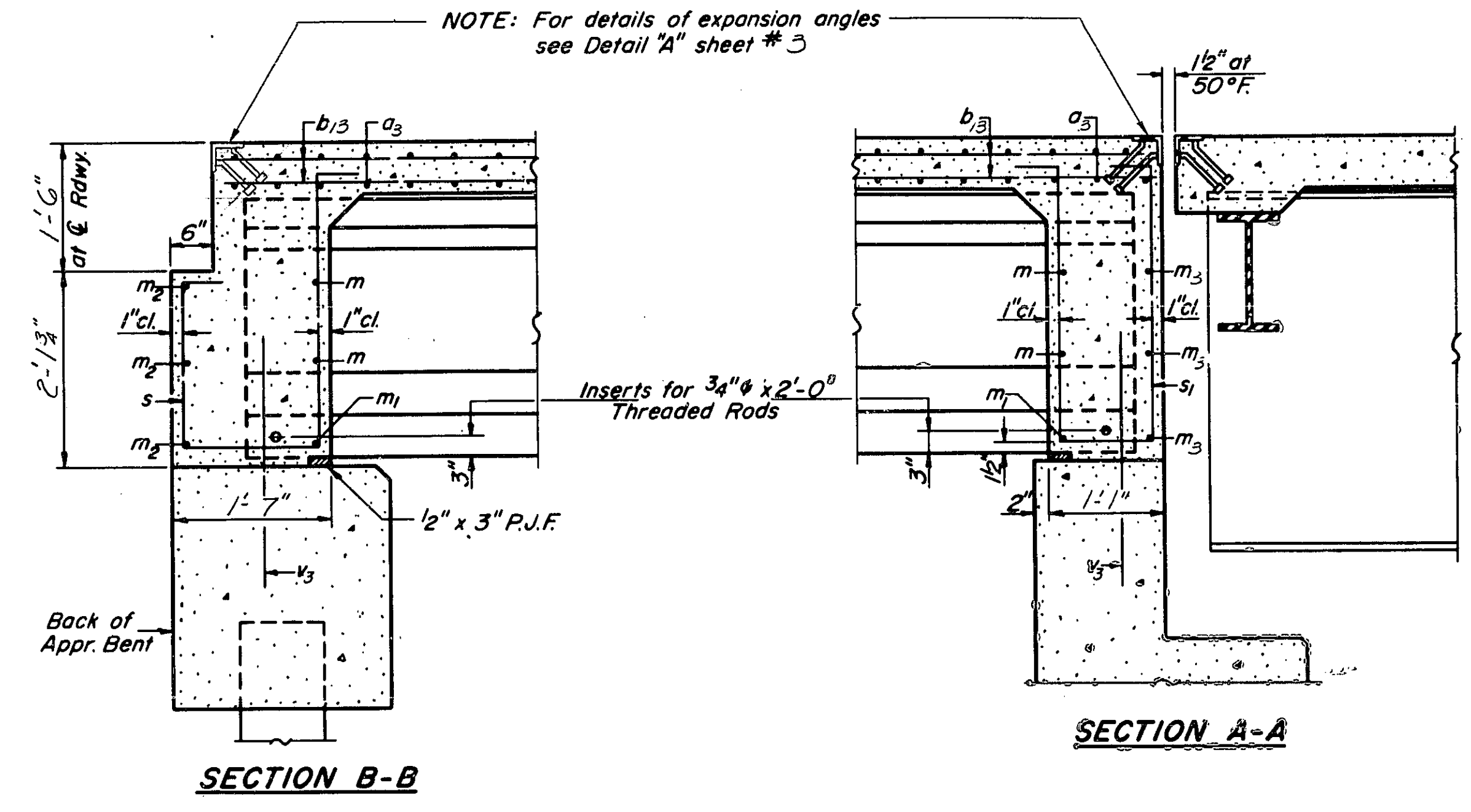
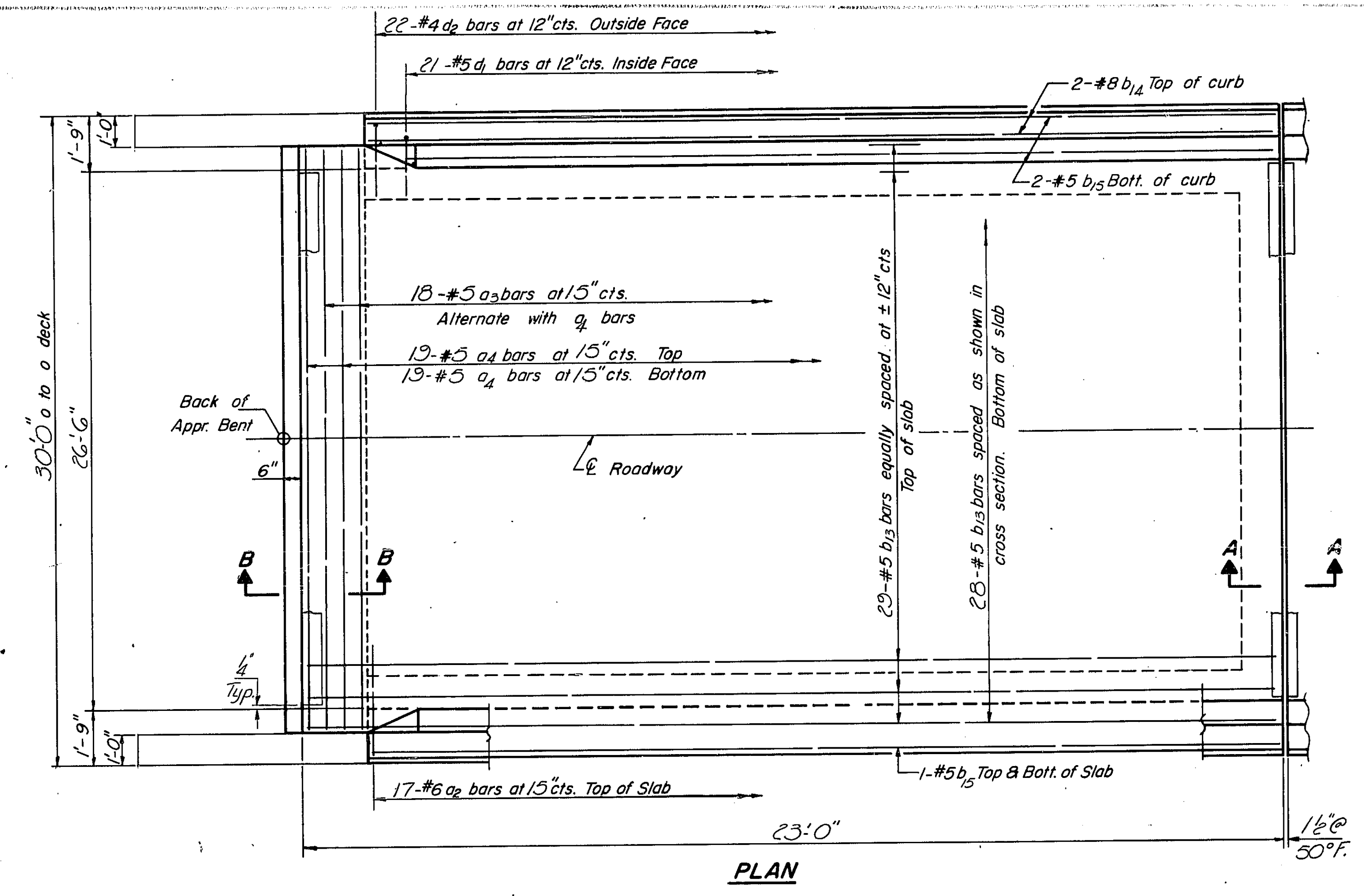
MDIN SPONS
SUPERSTRUCTURE
FDL RT. 55 SEC. 68-4HB
MONTGOMERY COUNTY
STD. 1285+20.33

S-4-0 4-22-68

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 1.55	LB-4HB	Mont.	44	15
PER. ROAD DIST. NO. 7		ILLINOIS	PER. AID PROJECT	

SHEET NO. 4
20 SHEETS



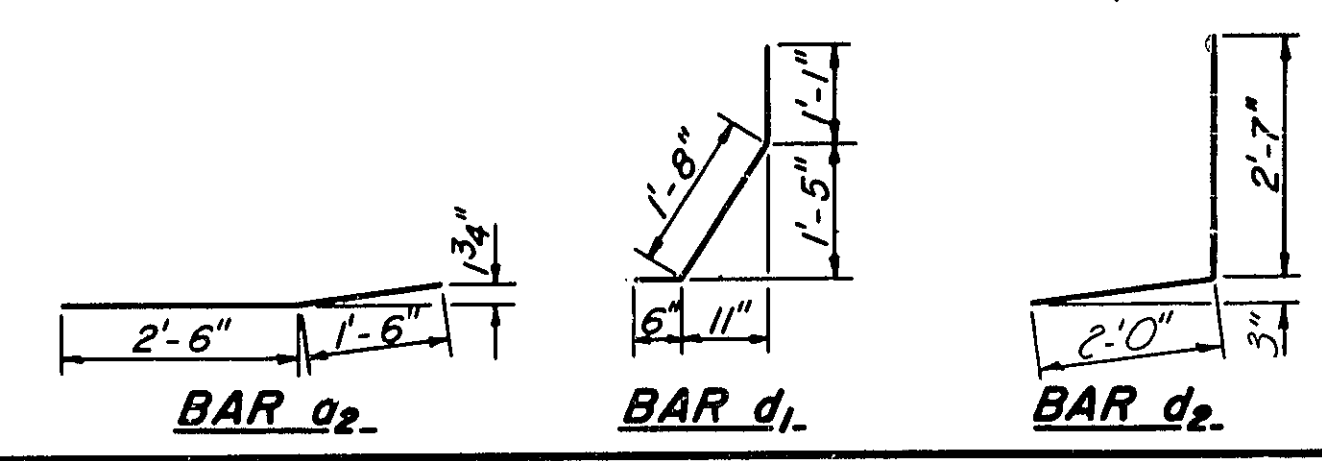
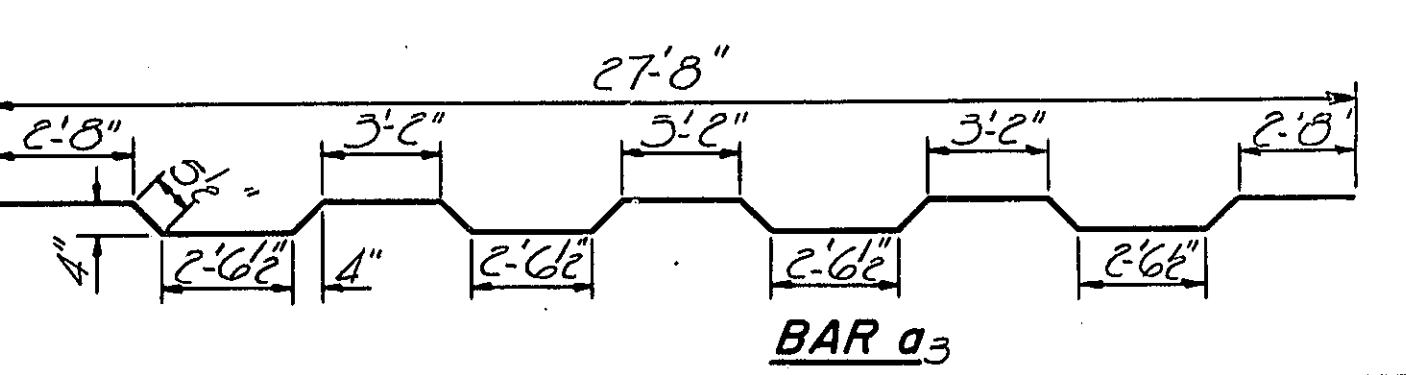
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a3	18	#5	28'-8"	—
a4	38	#5	27'-8"	—
a2	34	#6	4'-0"	—
b13	57	#5	22'-9"	—
b14	4	#8	20'-9"	—
b15	8	#5	20'-9"	—
d1	42	#5	3'-3"	—
d2	44	#4	4'-7"	—
m	16	#4	5'-7"	—
m1	8	#5	4'-7"	—
m2	3	#5	27'-6"	—
m3	3	#5	24'-3"	—
s	16	#4	7'-5"	—
s1	16	#4	8'-3"	—
Reinforcement Bars		Lbs.	4290	
Class X Concrete		Cu. Yds.	25.6	

* Parapet Reinforcement and Class X Concrete are billed on sheet #6
For placement and details of bars m thru s, see sheet #12

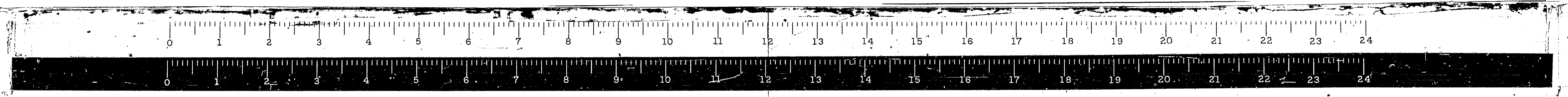
DESIGNED D.H. Ryan
CHECKED Rao.G.k
DRAWN J.D.
CHECKED Rao.G.k

APRIL 23 1970
EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]



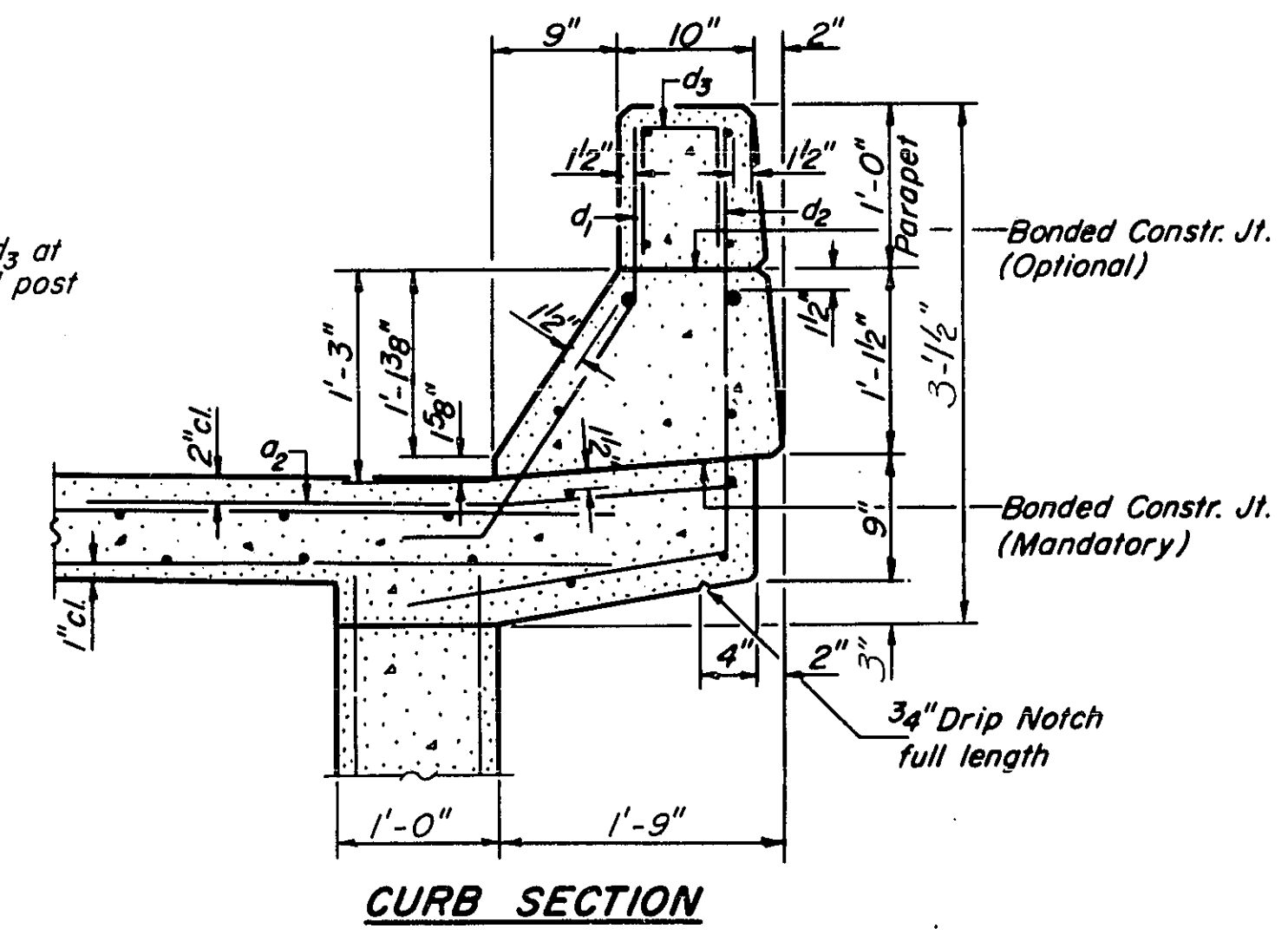
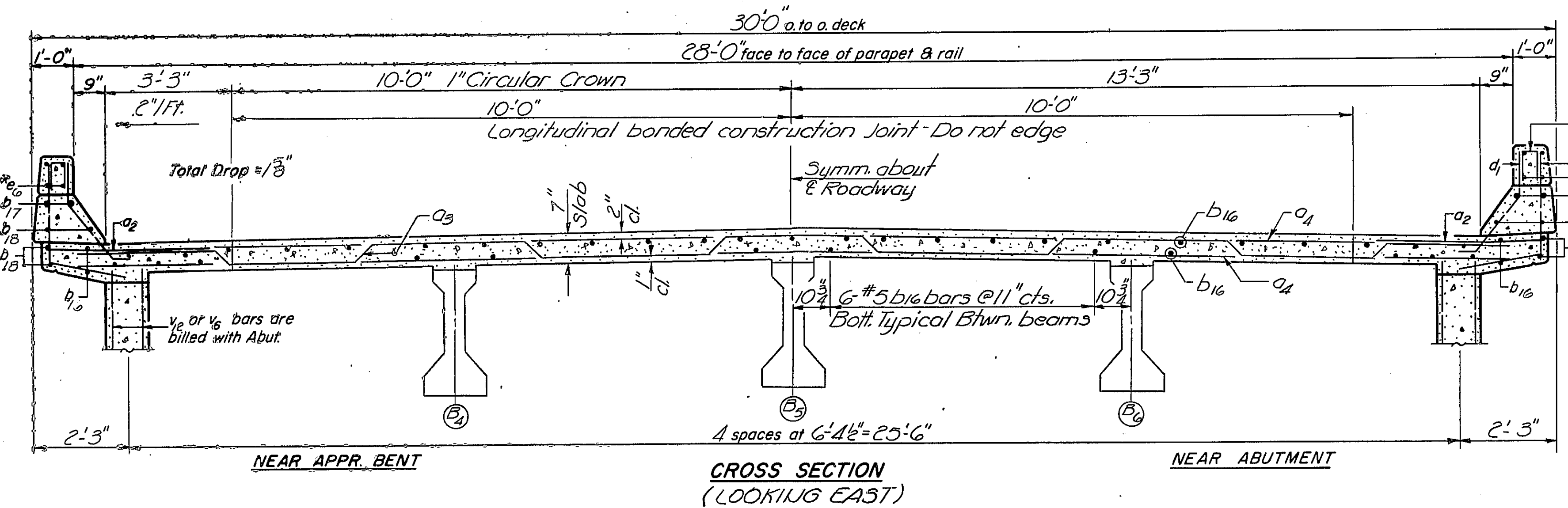
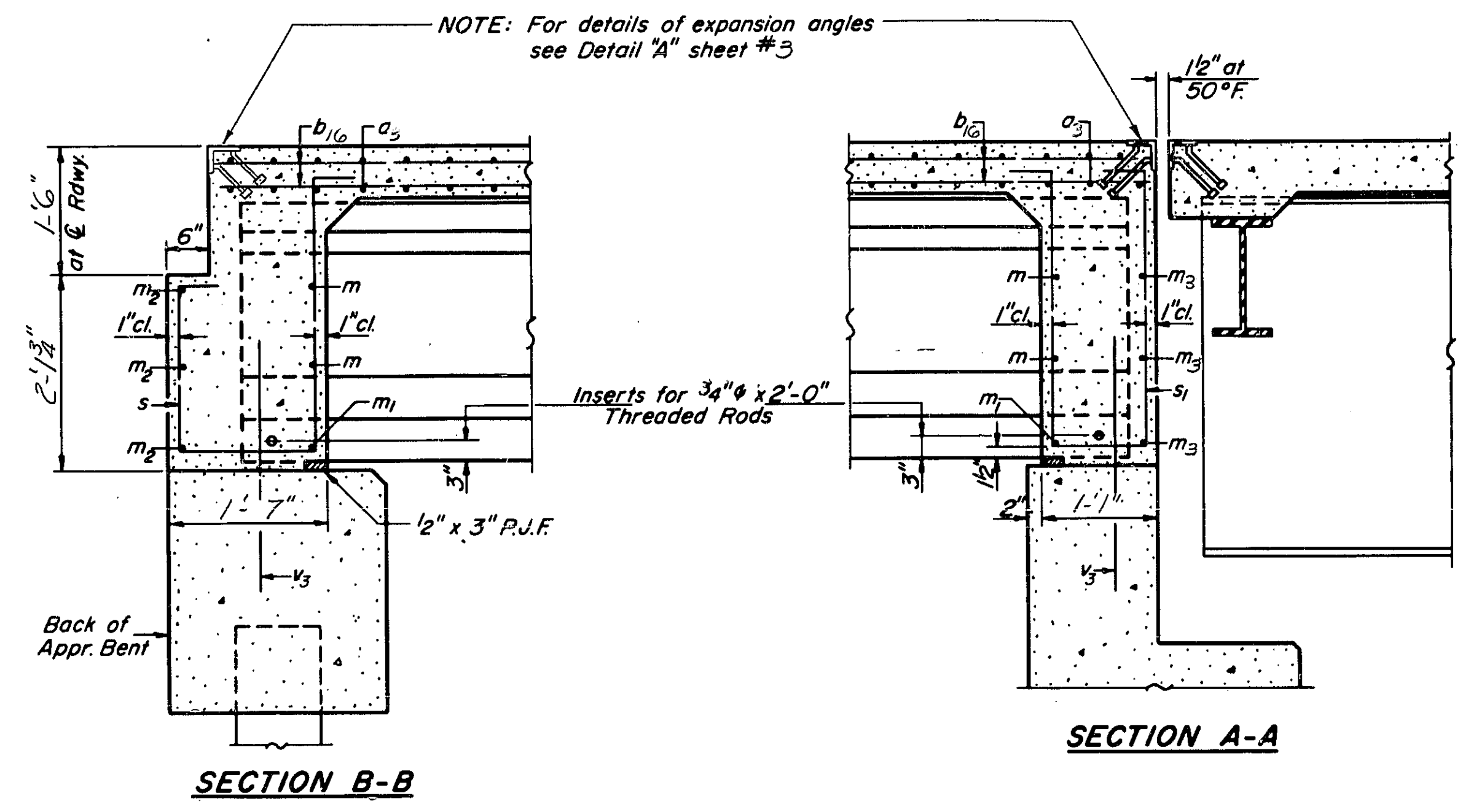
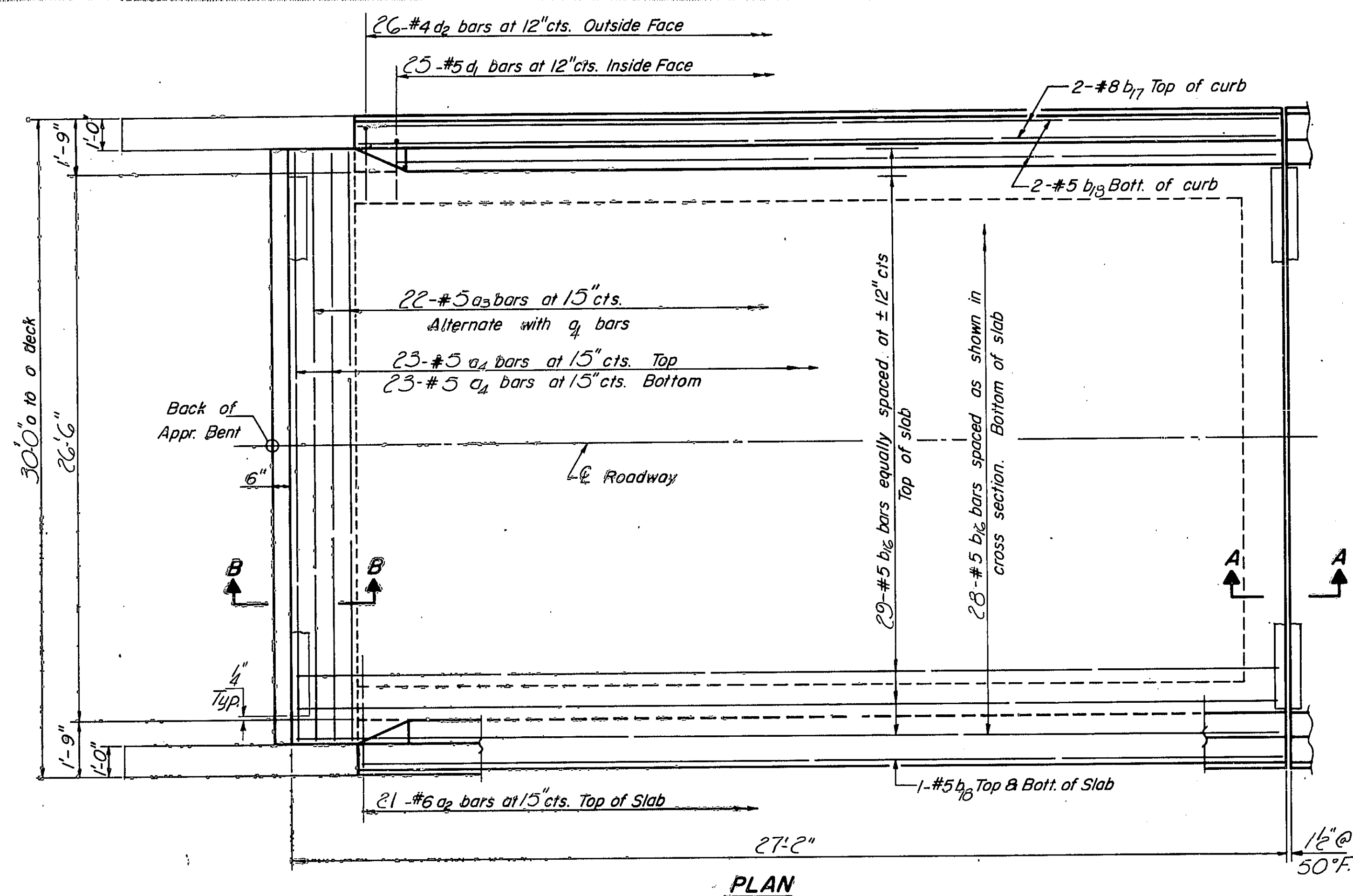
WEST APPROACH
SUPERSTRUCTURE
F.D.I. RT. 55 SEC. 684-HB
MONTGOMERY COUNTY
STD. 1285+90.33

SA-586-Q 3-17-69



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

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
Rt. 155	68-4HB	Mont.	44	16
SHEET NO. 5		20 SHEETS		



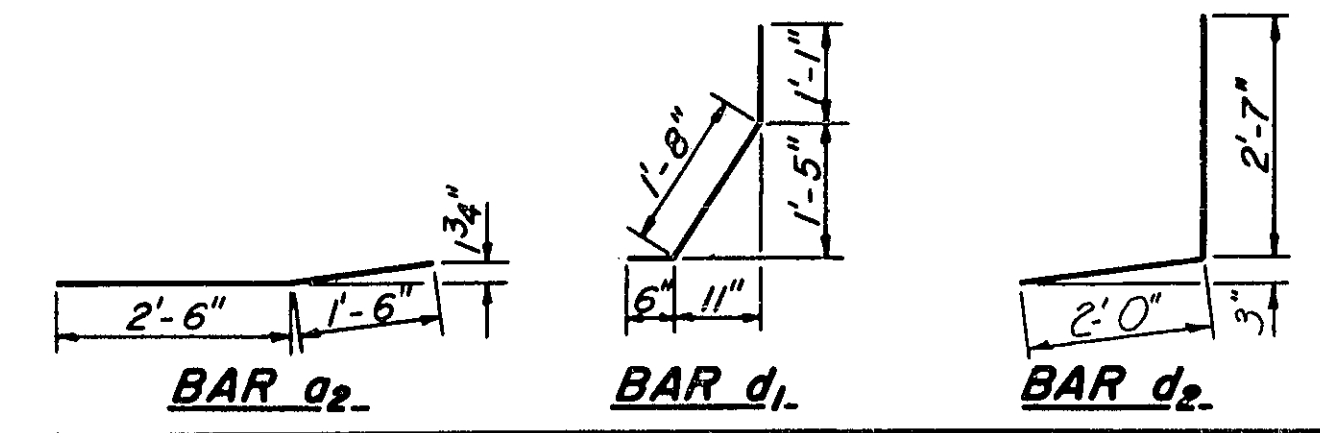
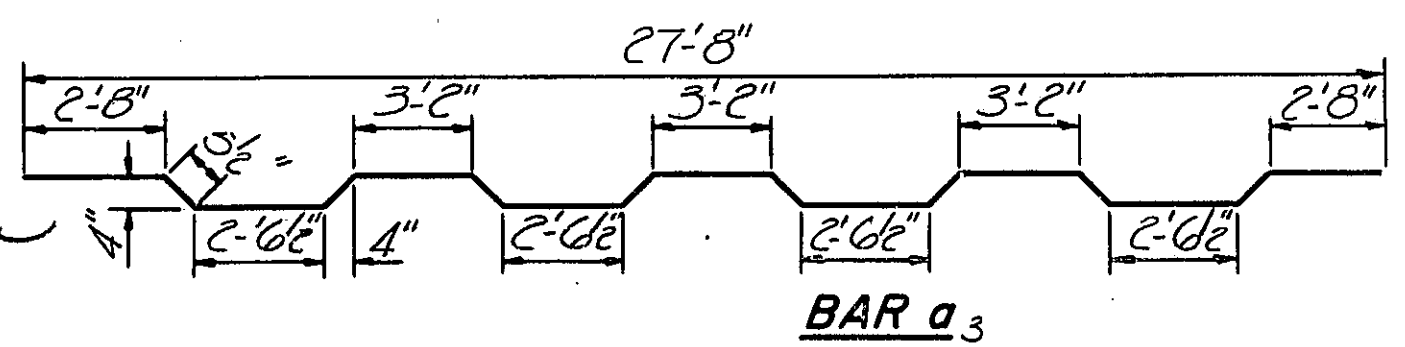
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a3	22	#5	28'-8"	—
a4	46	#5	27'-6"	—
a2	12	#6	4'-0"	—
b16	57	#5	26'-11"	—
b17	4	#8	24'-11"	—
b18	8	#5	24'-11"	—
d1	50	#5	3'-3"	J
d2	52	#4	4'-7"	J
m	16	#4	5'-1"	—
m1	8	#5	4'-7"	—
m2	3	#5	27'-6"	—
m3	3	#5	24'-3"	—
s	16	#4	7'-5"	J
s1	16	#4	8'-3"	J
Reinforcement Bars			Lbs.	5060
Class X Concrete			Cu. Yds.	29.0

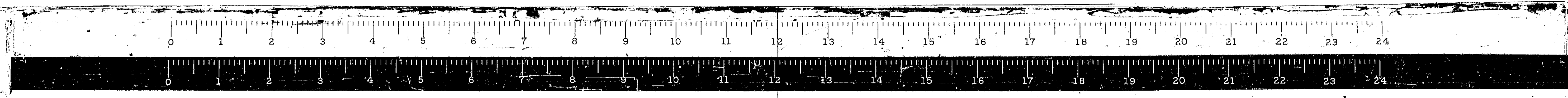
DESIGNED D.A. Ryan
CHECKED Rao. G.K.
DRAWN J.D.
CHECKED Rao. G.K.

EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]

April 23 1979



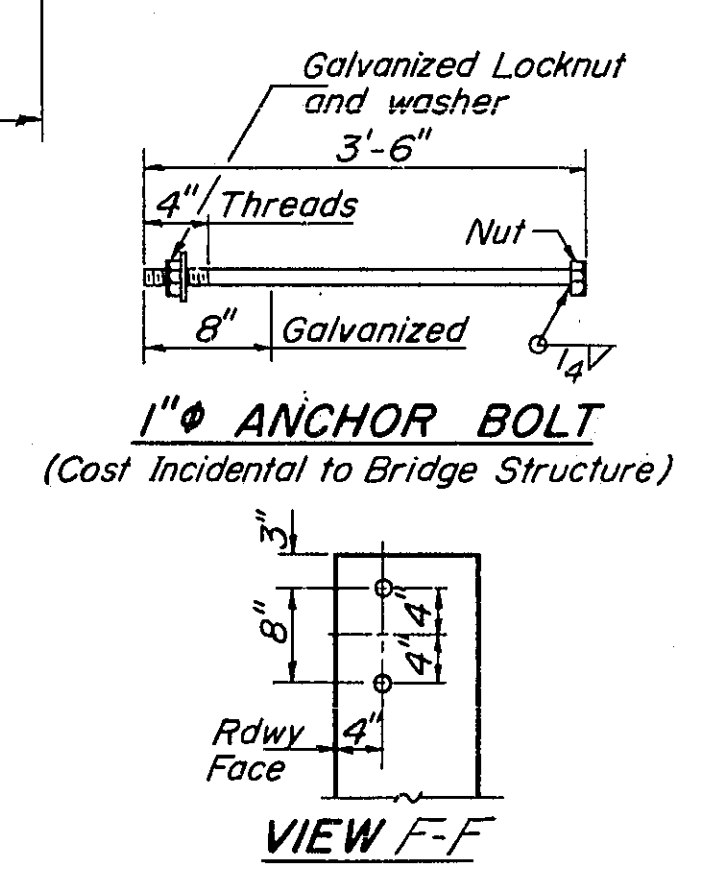
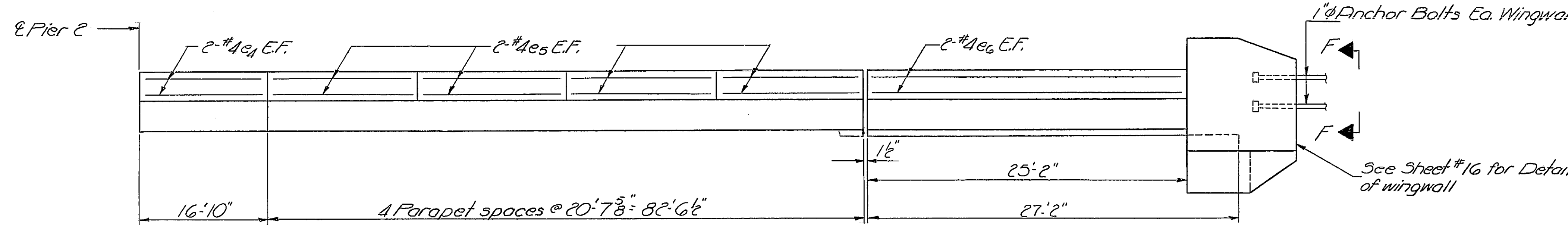
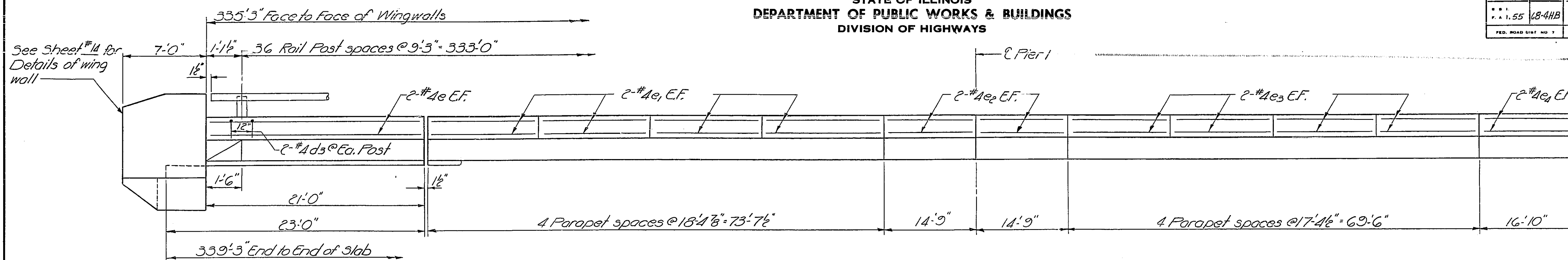
EDST APPROACH
SUPERSTRUCTURE
FDI. RT. 155 SEC. 68-4HB
MONTGOMERY COUNTY
STD. 1285+30.33



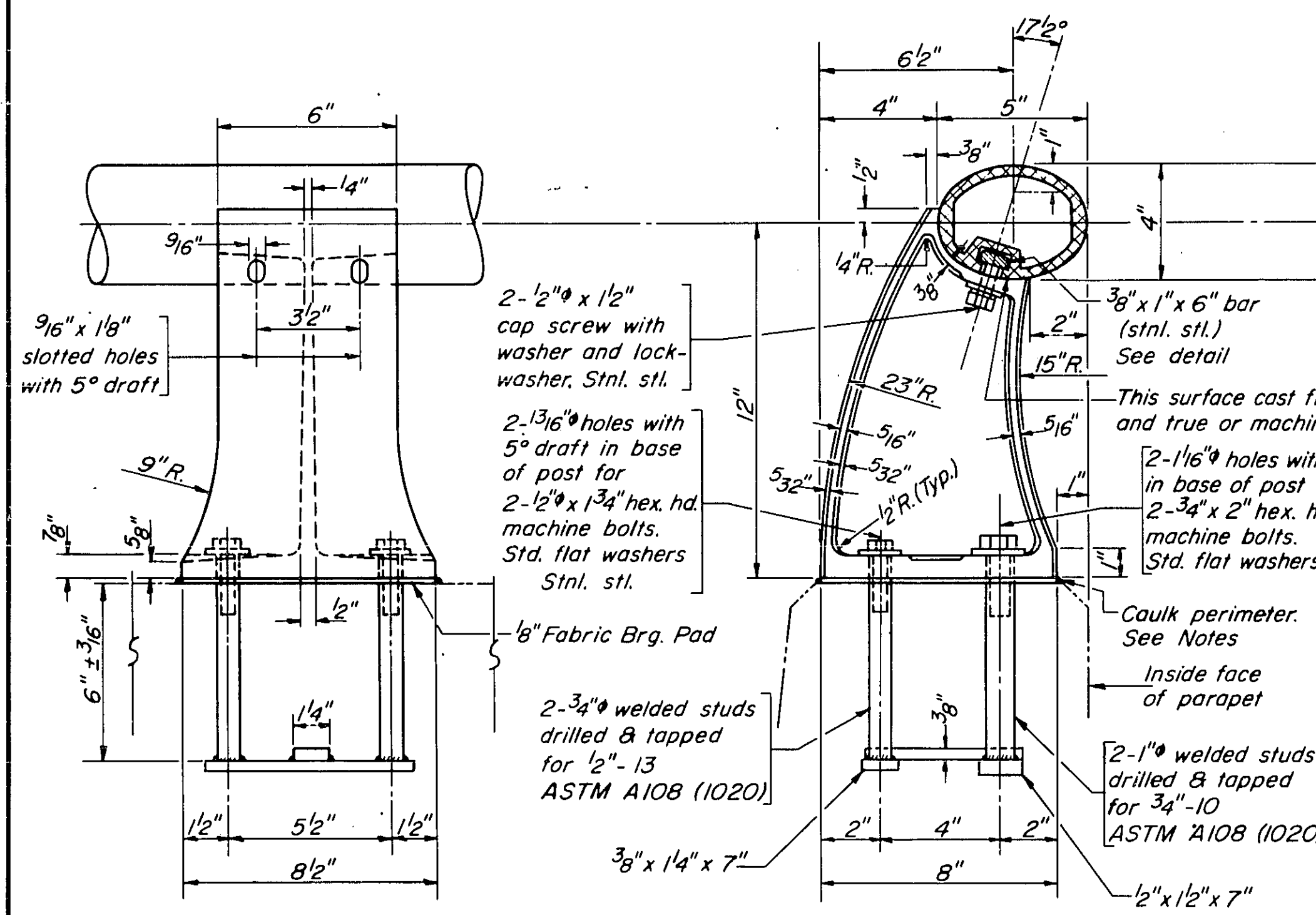
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1.55	18-4HB	Monk	44	17
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

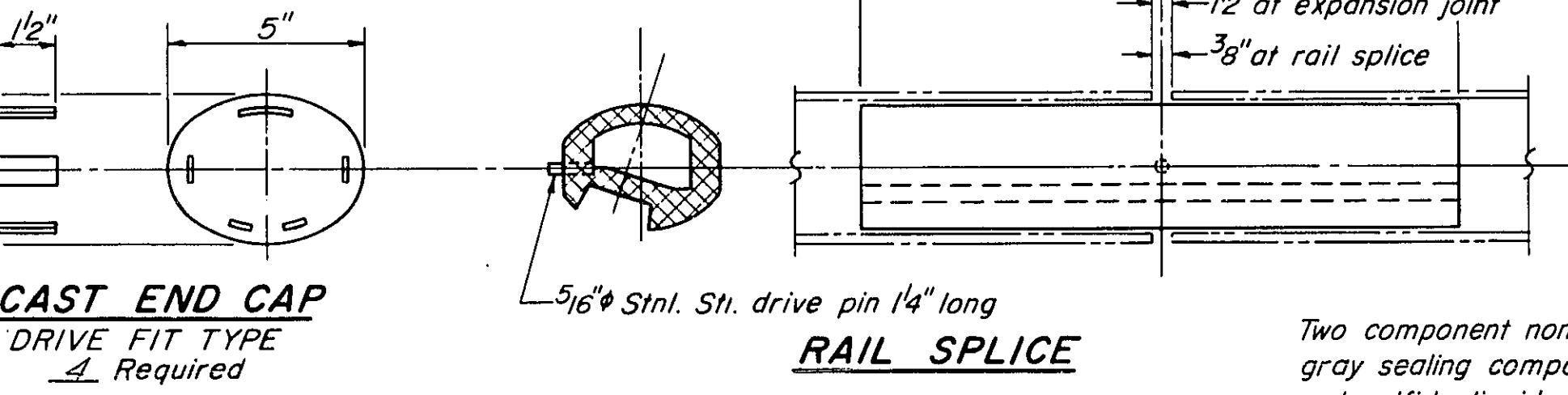
SHEET NO. 6
20 SHEETS



ELEVATION

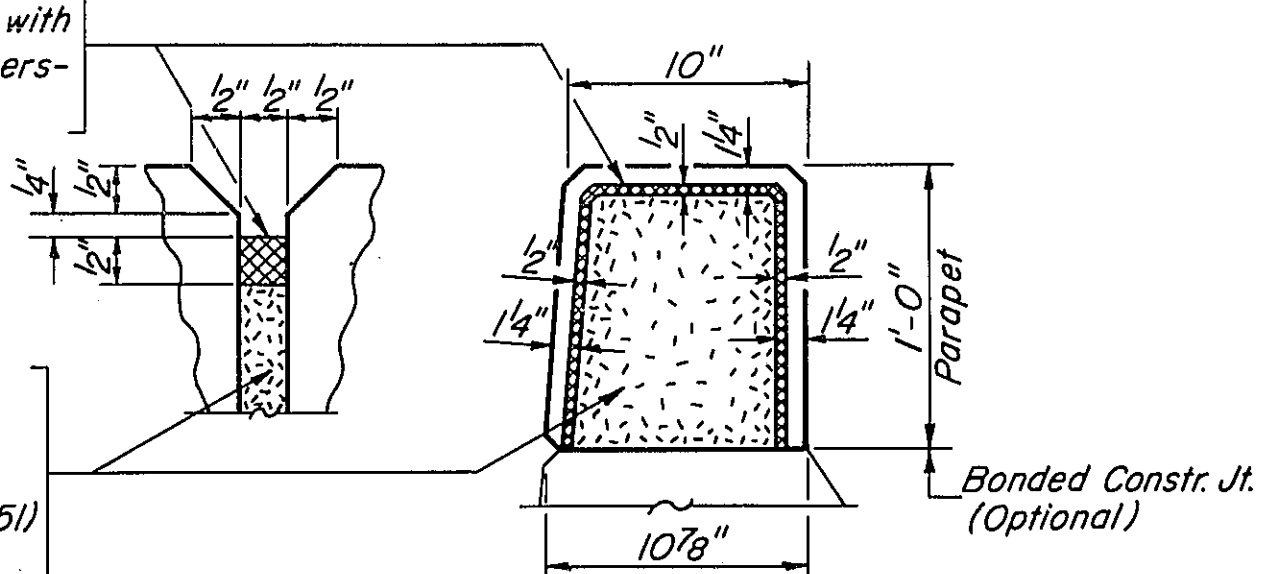


CAST END CAP
DRIVE FIT TYPE
Required



RAIL SPLICE

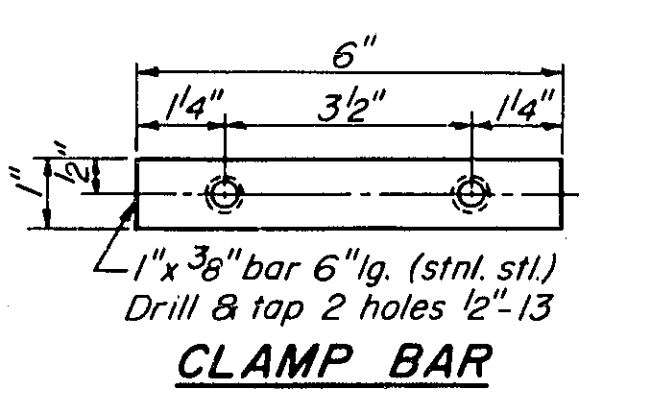
Two component non-staining gray sealing compound with polysulfide liquid polymers - gun grade with primer.



PARAPET JOINT DETAIL

SEC. THRU ELLIPTICAL RAIL SECTION

SEC. THRU SPLICE



CLAMP BAR

NOTES:
All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.
All joints in rail shall be spliced per detail.
Provide 1-1/2" and 2-1/2" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.
Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.
Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.

**PARAPETS & RAILS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
e	8	#4	20'-9"	
e1	32	#4	18'-1"	
e2	16	#4	14'-6"	
e3	32	#4	17'-1"	
e4	16	#4	16'-7"	
e5	32	#4	20'-2"	
e6	8	#4	21'-11"	
ds	148	#4	2'-1"	
Reinforcement Bars			Lbs.	1970
Class X Concrete			Cu. Yds.	21.6
Aluminum Railing			Lin. Ft.	670.0

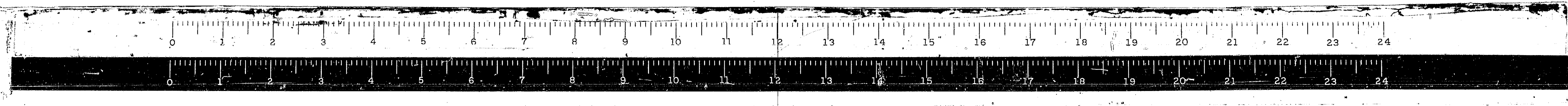
ALUMINUM RAILING
F.D.I. RT. 55 SEC. 68-4HB
MONTGOMERY COUNTY
STD. 1285 + 90.33

DESIGNED D.A. Ryan
CHECKED Rao.G.K.
DRAWN J.D.
CHECKED Rao.G.K.

APPROVED Richard H. Holloman
ILLINOIS STATE ENGINEER

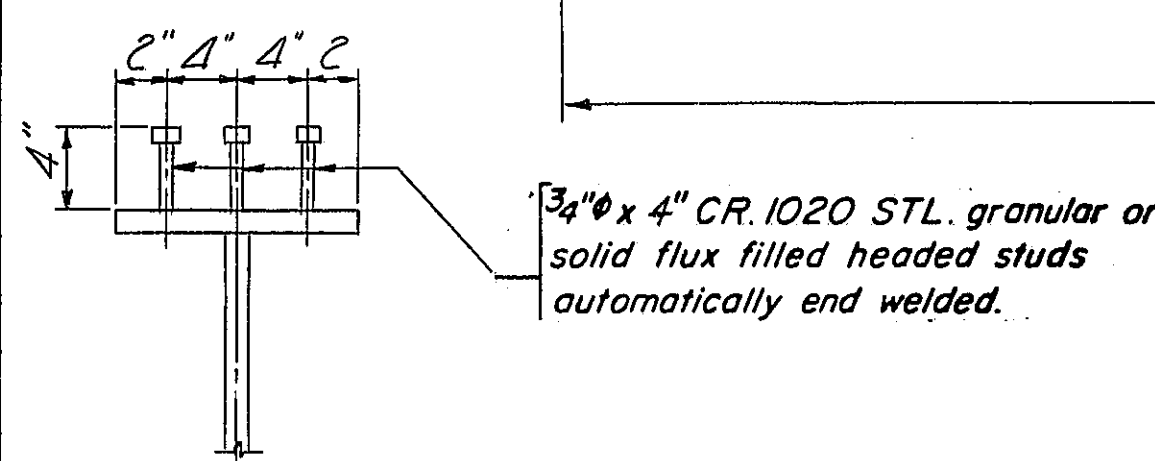
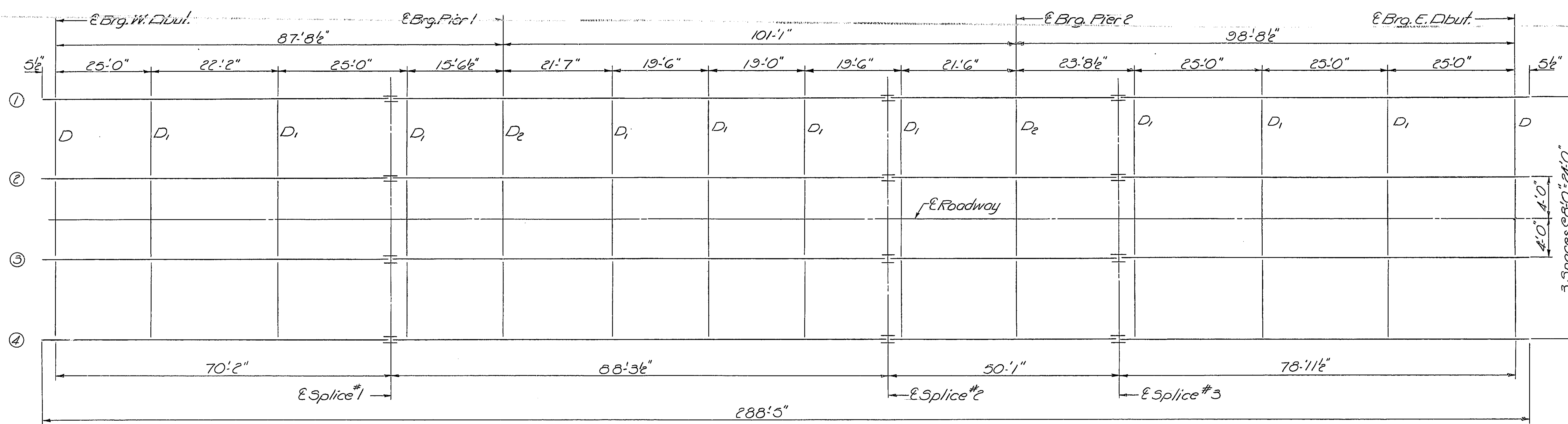
APRIL 22 1970

R-17 4-22-68 9-18-69

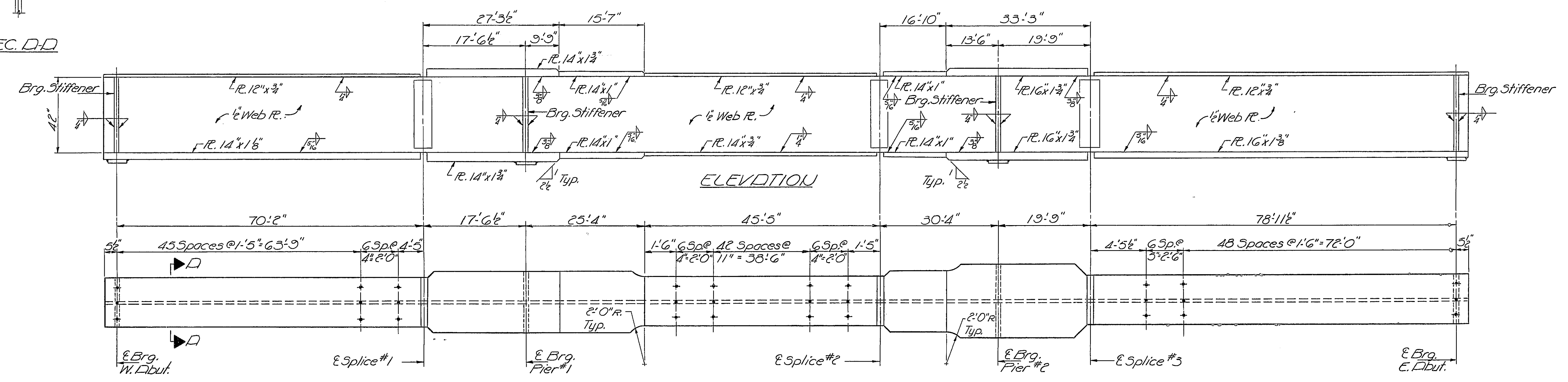


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
P.A.I. 55	68-4HB	Mont	44	18	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



SEC. D-D

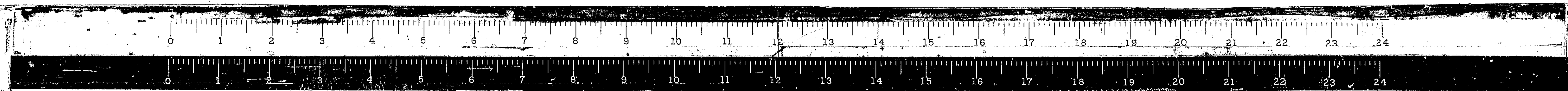


PLAN (Showing Stud Spacing)

DESIGNED D.A. Ryan
CHECKED Rao. G.K.
DRAWN J.D.
CHECKED Rao. G.K.

APRIL 22 1970
EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]

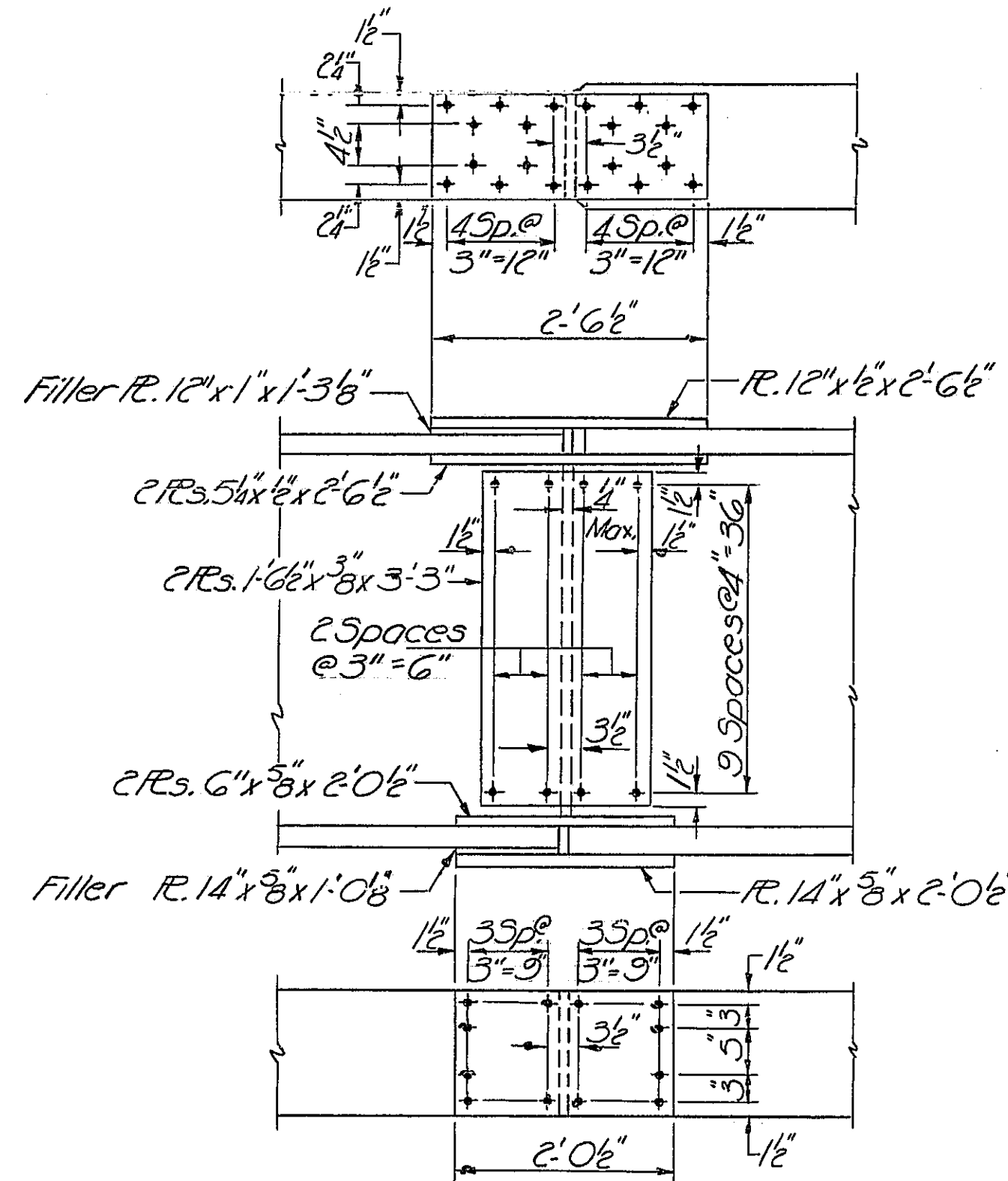
STRUCTURAL STEEL
F.D.I. RT. 55 SEC. 68-4HB
MONTGOMERY COUNTY
S.D. 1285+90.33



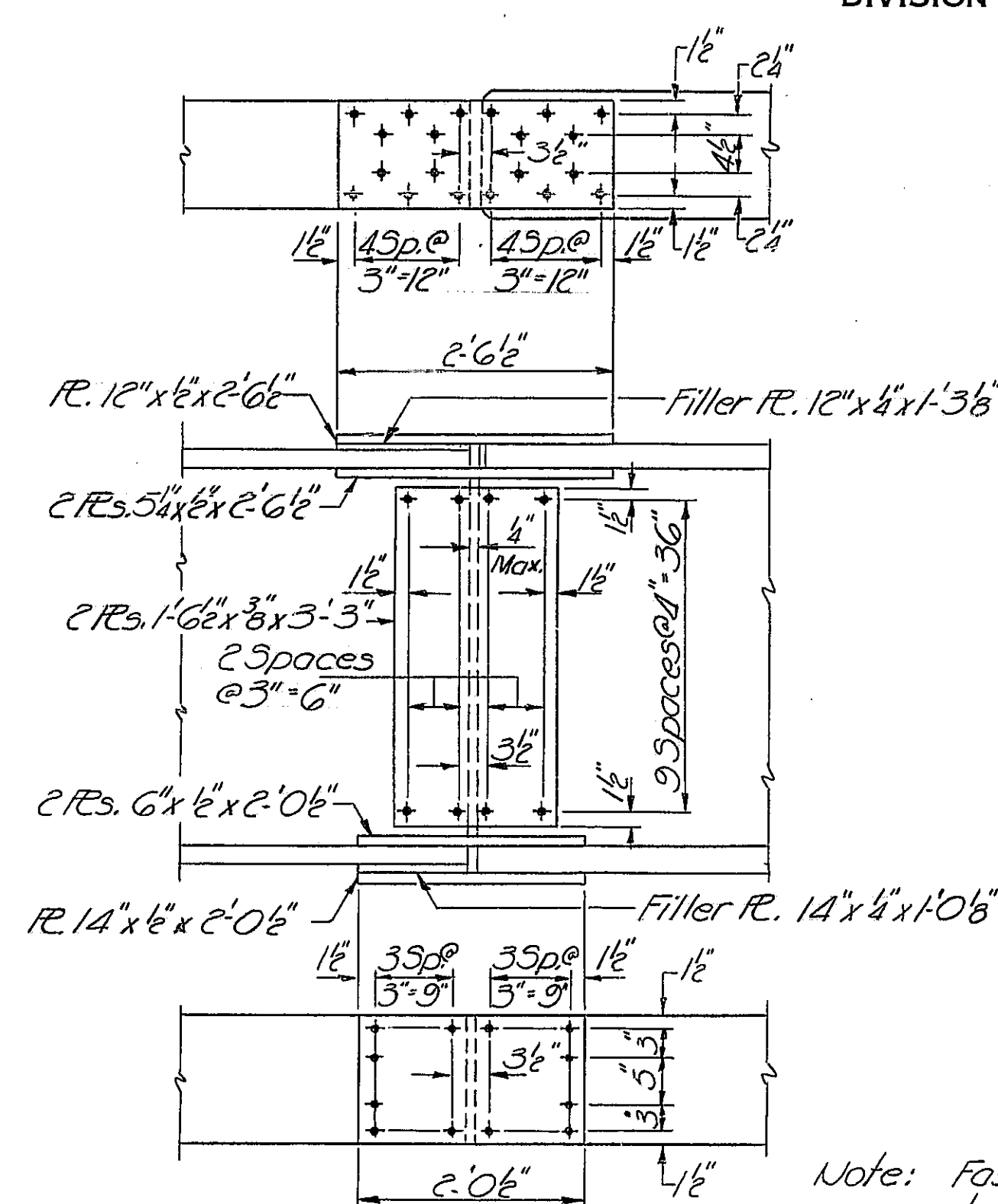
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R. 1. 55	68-4HB	Mont.	44	19
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

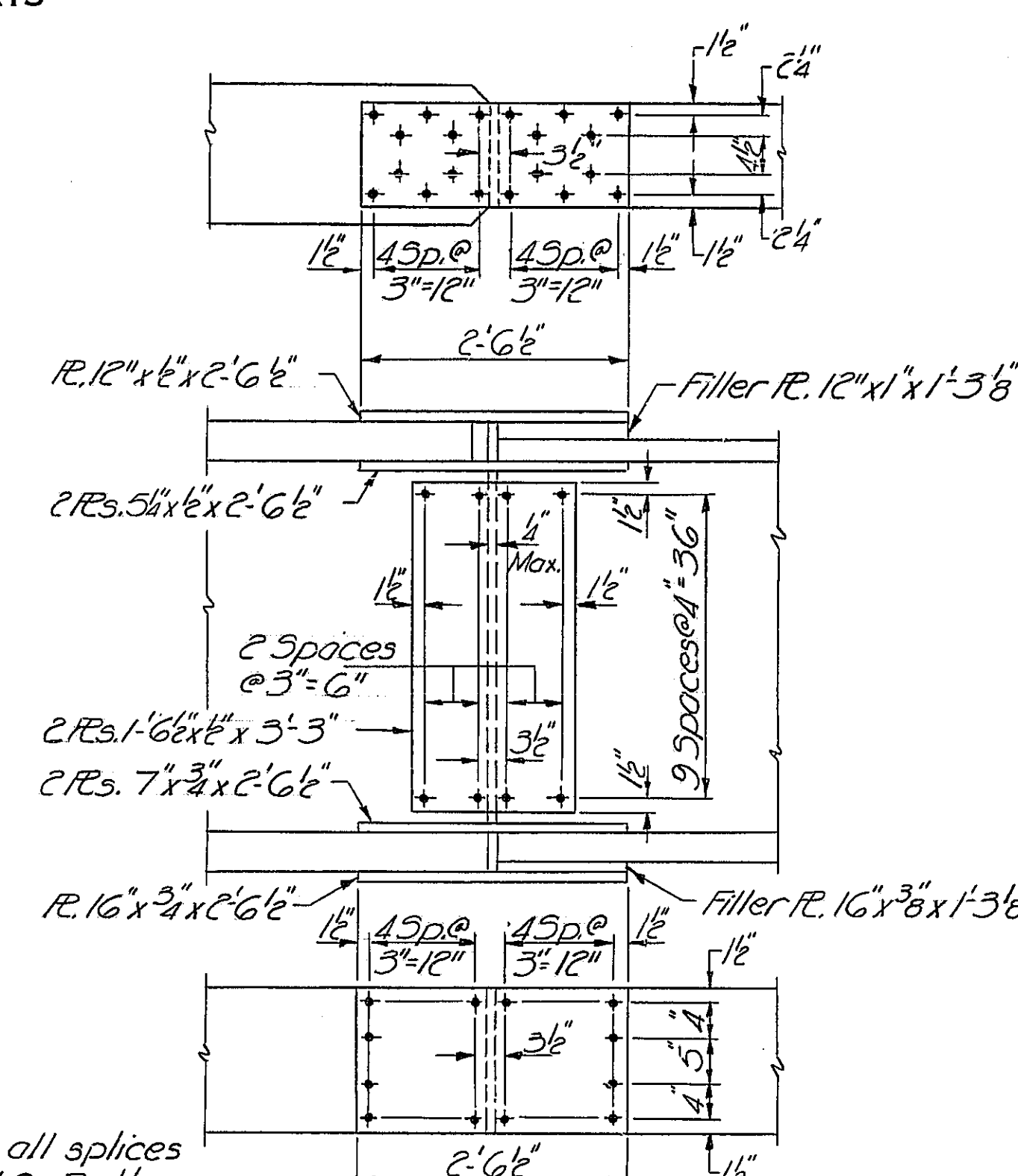
20 SHEETS



FIELD SPLICE #1

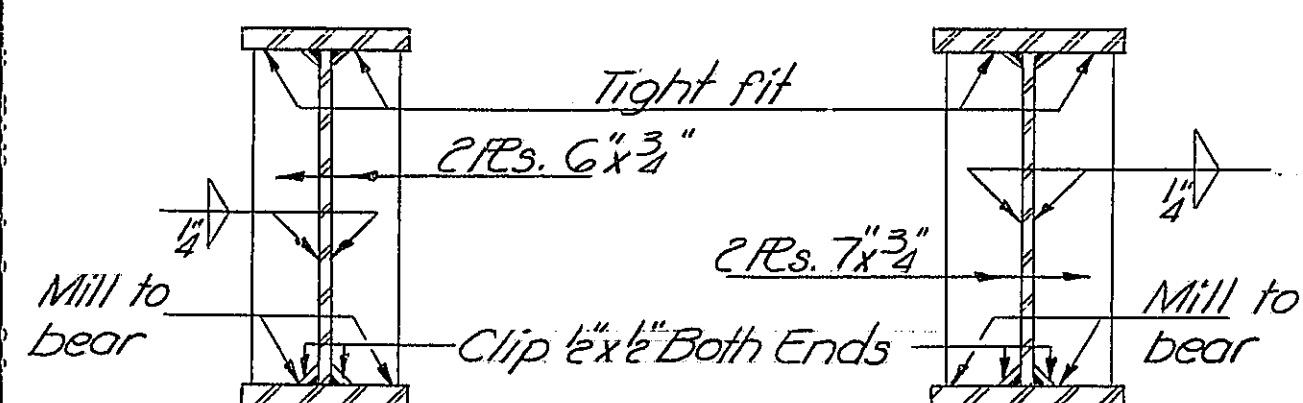


FIELD SPLICE #2

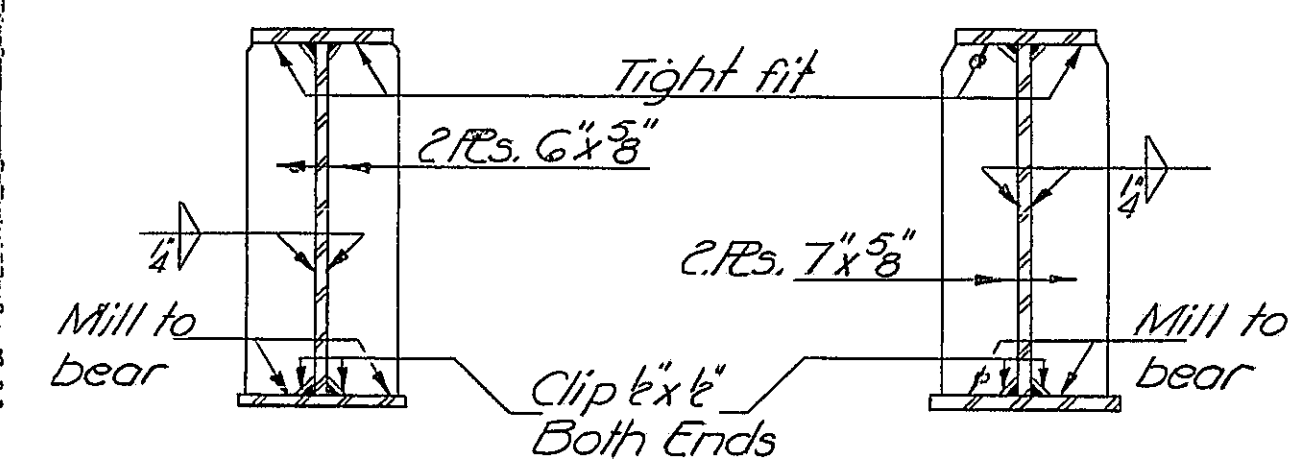


FIELD SPLICE #3

Note: Fasteners for all splices shall be 7/8" H.S. Bolts.



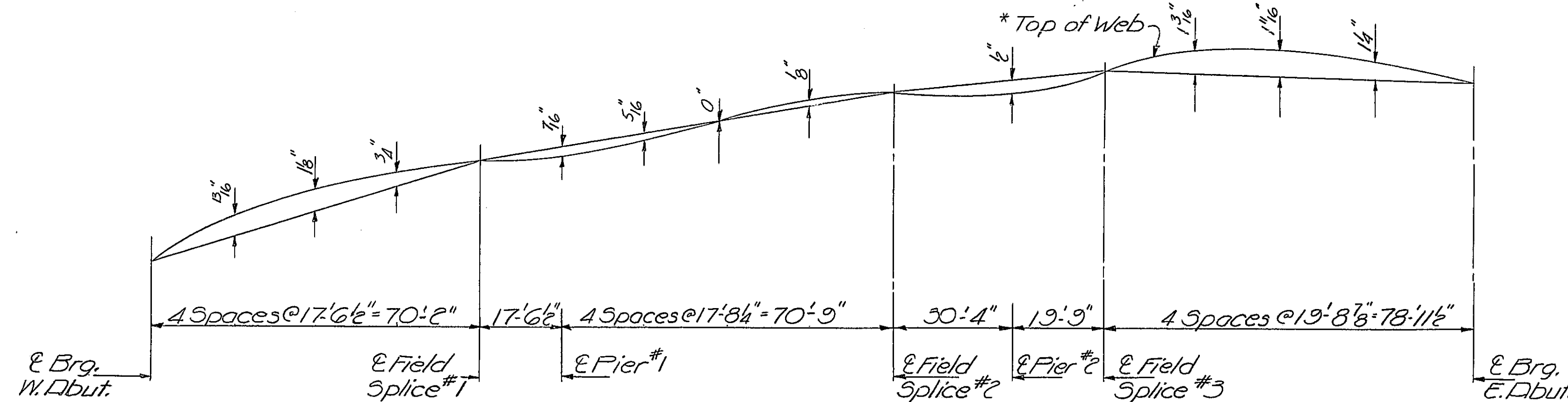
PIER #1
BEDDING STIFFENERS



WEST ABUT. BEDDING STIFFENERS
EAST ABUT. BEDDING STIFFENERS

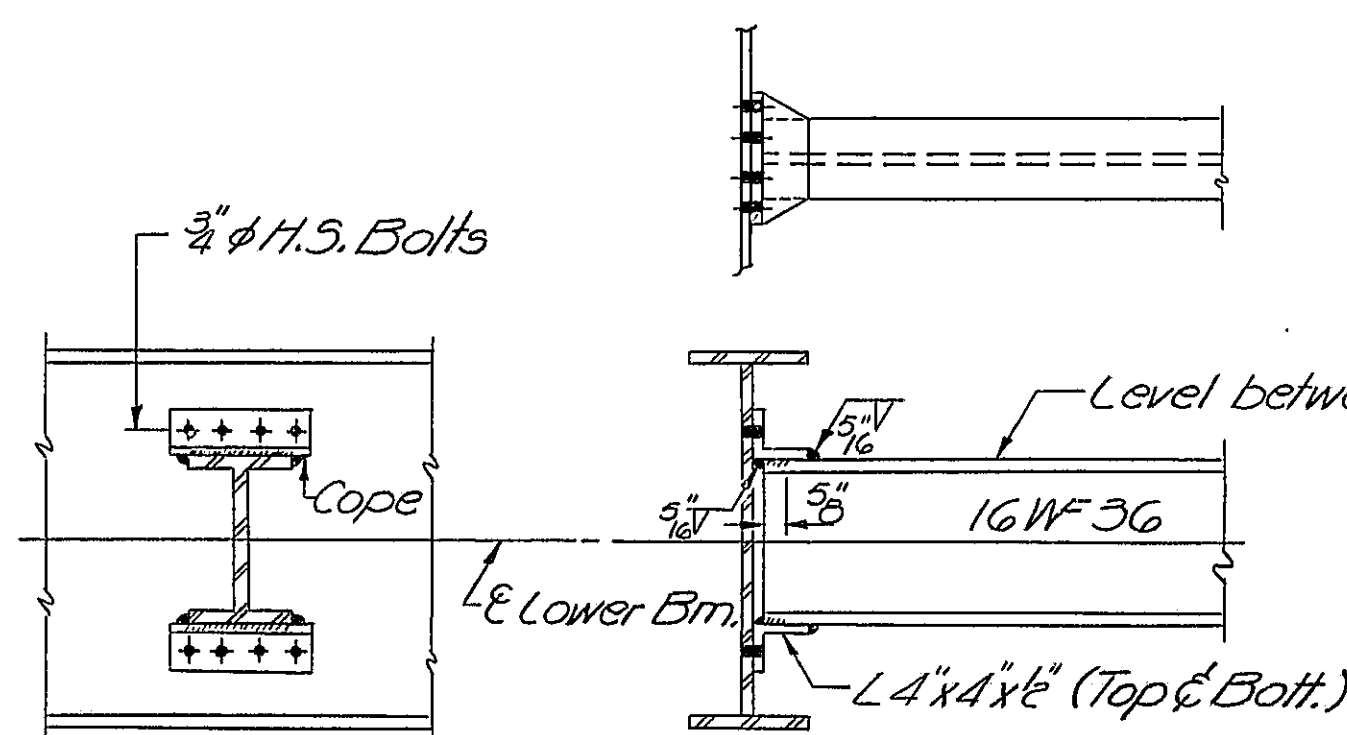
DESIGNED D.A. Ryan
CHECKED Rao. G.K.
DRAWN J.D.
CHECKED Rao. G.K.

APRIL 22 1970
EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]
CHIEF HIGHWAY ENGINEER

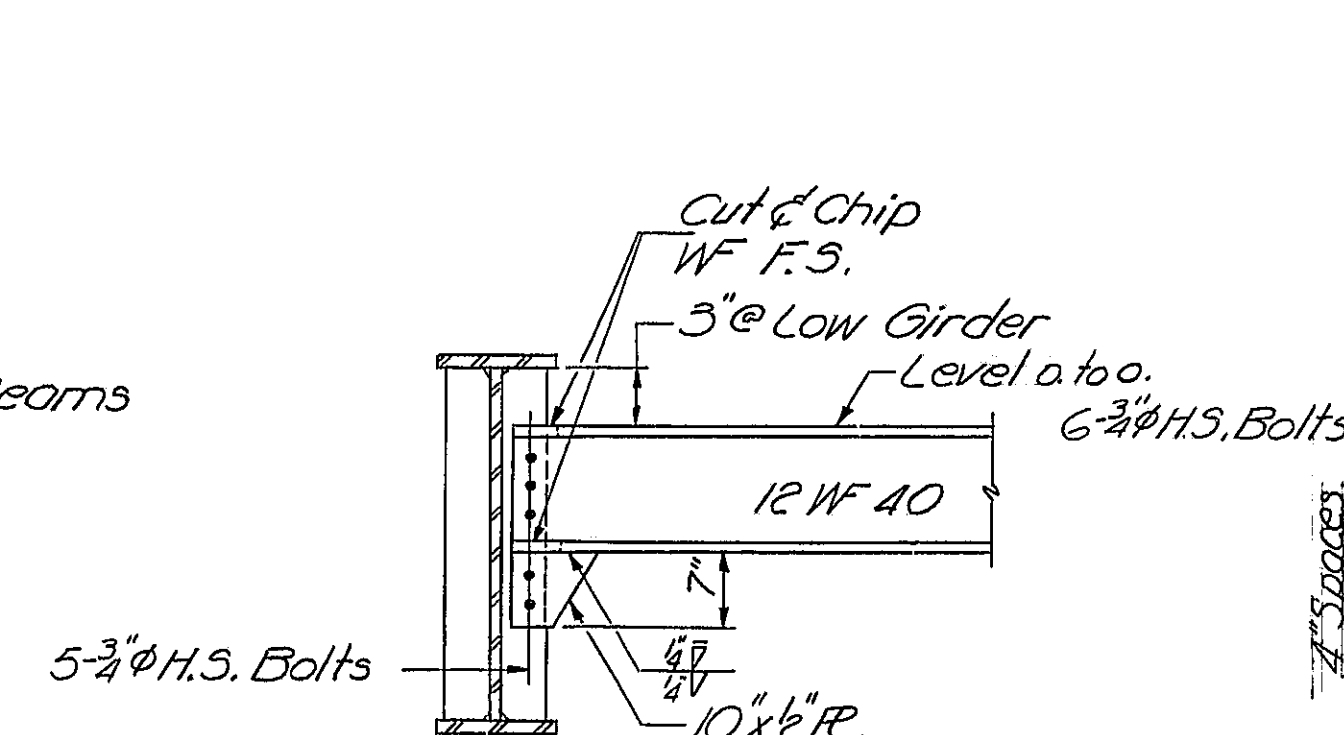


GIRDER DIAGRAM

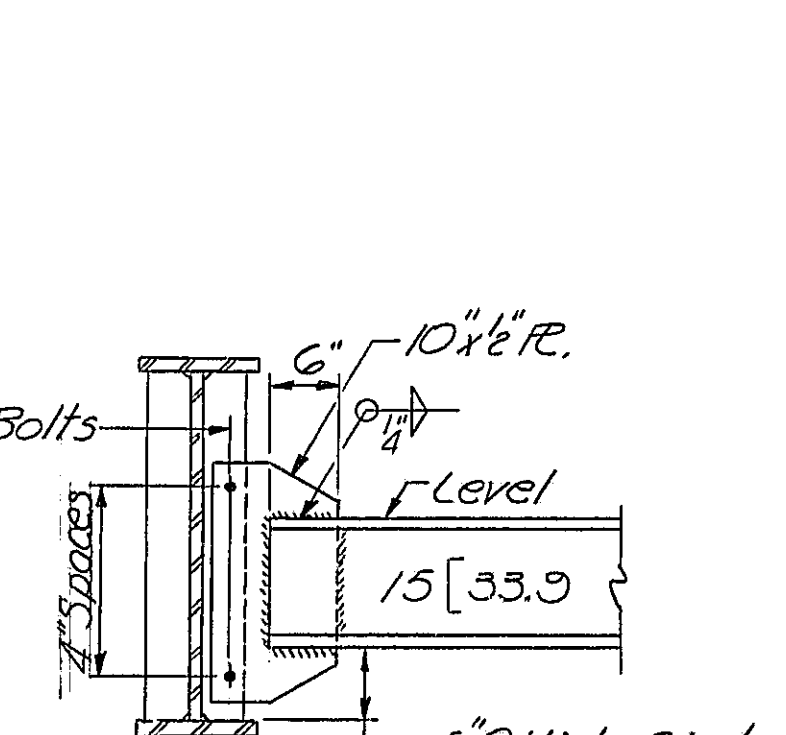
* For Top of Web Elevations at Splices & Bearings see table on this sheet.



INTERIOR DIAPHRAGM D1
(30 Required)



DIAPHRAGM D
(6 Required)



DIAPHRAGM D2
(6 Required)

* TOP OF WEB ELEVATIONS

Location	Girder	164	263
E Brg. W. Abut.		660.86	660.96
E Field Splice #1		661.76	661.82
E Brg. Pier #1		661.83	661.93
E Field Splice #2		662.45	662.55
E Brg. Pier #2		662.52	662.62
E Field Splice #3		662.63	662.73
E Brg. E. Abut.		662.61	662.71

* For Fabrication only

INTERIOR GIRDER REACTION TABLE

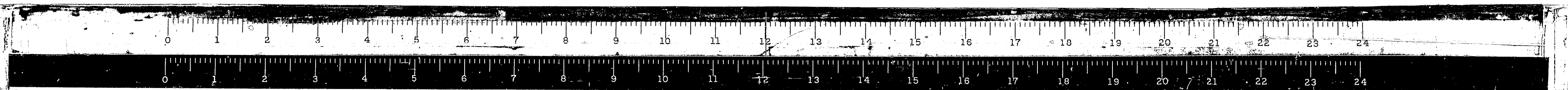
	West Abut.	Pier 1	Pier 2	East Abut.
R ₁ (K)	44.69	136.24	132.46	52.04
R ₂ (K)	34.31	52.36	55.07	34.89
Imp. (K)	8.06	11.94	12.23	7.77
R Total (K)	87.06	200.54	219.76	94.70

INTERIOR GIRDER MOMENT TABLE

	0.45p1	Pier 1	0.55p2	Pier 2	0.65p3
I _s (in ⁴)	14048	26534	11974	29884	15988
I _c (in ⁴)	35142		28478		42282
S _s (in ³)	743	1166	531	1314	946
S _c (in ³)	1006		783		1273
Q (K/ft)	0.972	1330	0.972	1.345	1.003
M ₀ (K)	534	1196	210	1423	711
f _{s0} (ksi)	8.62	12.31	4.74	13.64	9.01
S ₀ (in ³)	0.558		0.358		0.558
M _{imp} (K)	215		144		283
M _E (K)	601	475	531	533	694
M _{imp} (K)	136	108	120	120	157
Total (K)	952	583	795	653	1134
f _s (ksi)	11.36	6.00	12.18	5.96	10.69
f _s Total (ksi)	19.98	18.31	16.92	19.60	19.70
VR (K)	38.53	48.31	39.44	45.34	39.61

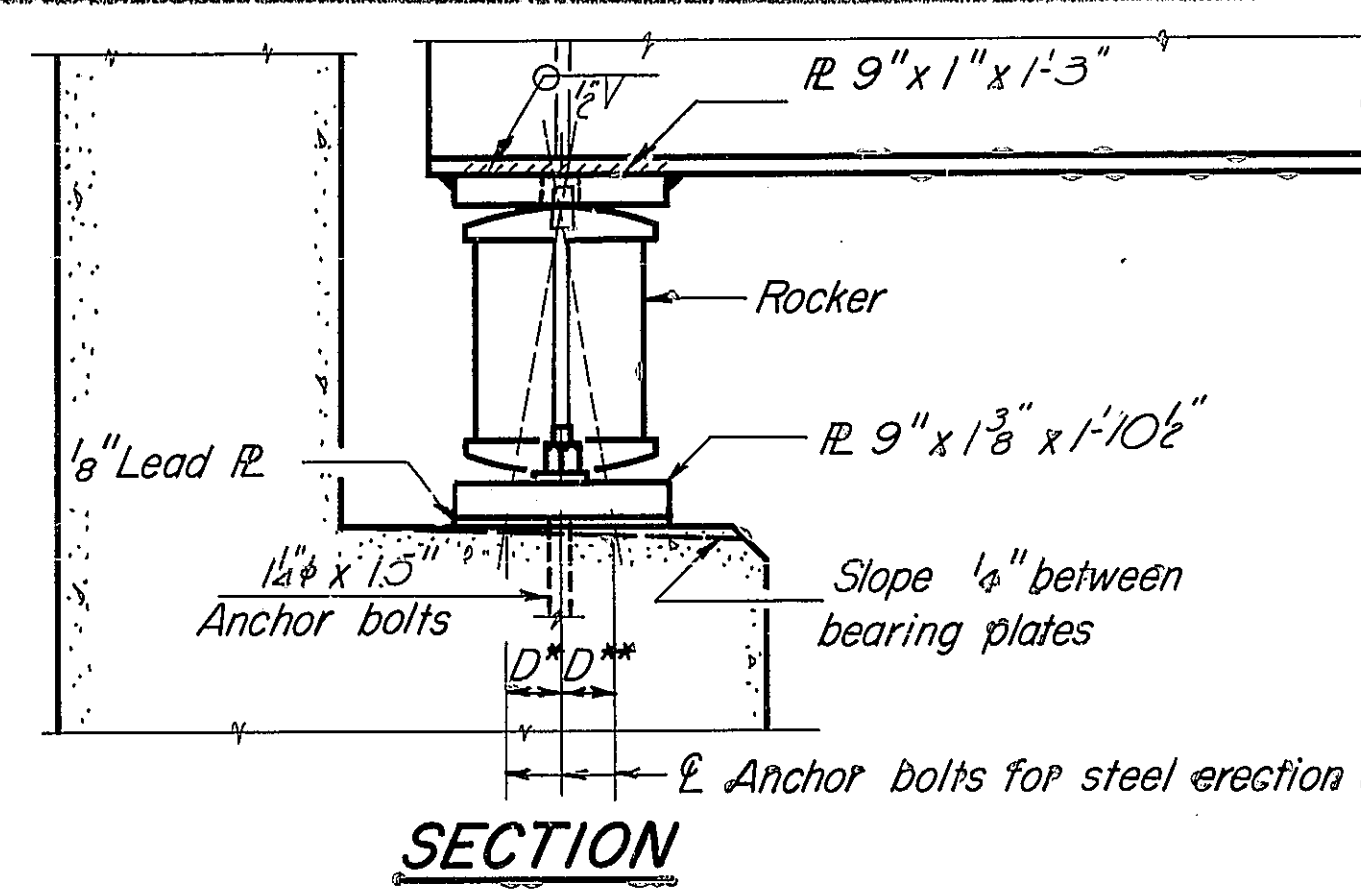
I_s and S_s are the moment of inertia and section modulus of the steel section.
I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s.
VR is the maximum + impact shear range.

STRUCTURAL STEEL DETAILS
FDL R1.55 SEC. 68-4HB
MONTGOMERY COUNTY
SPD. 1285+90.33

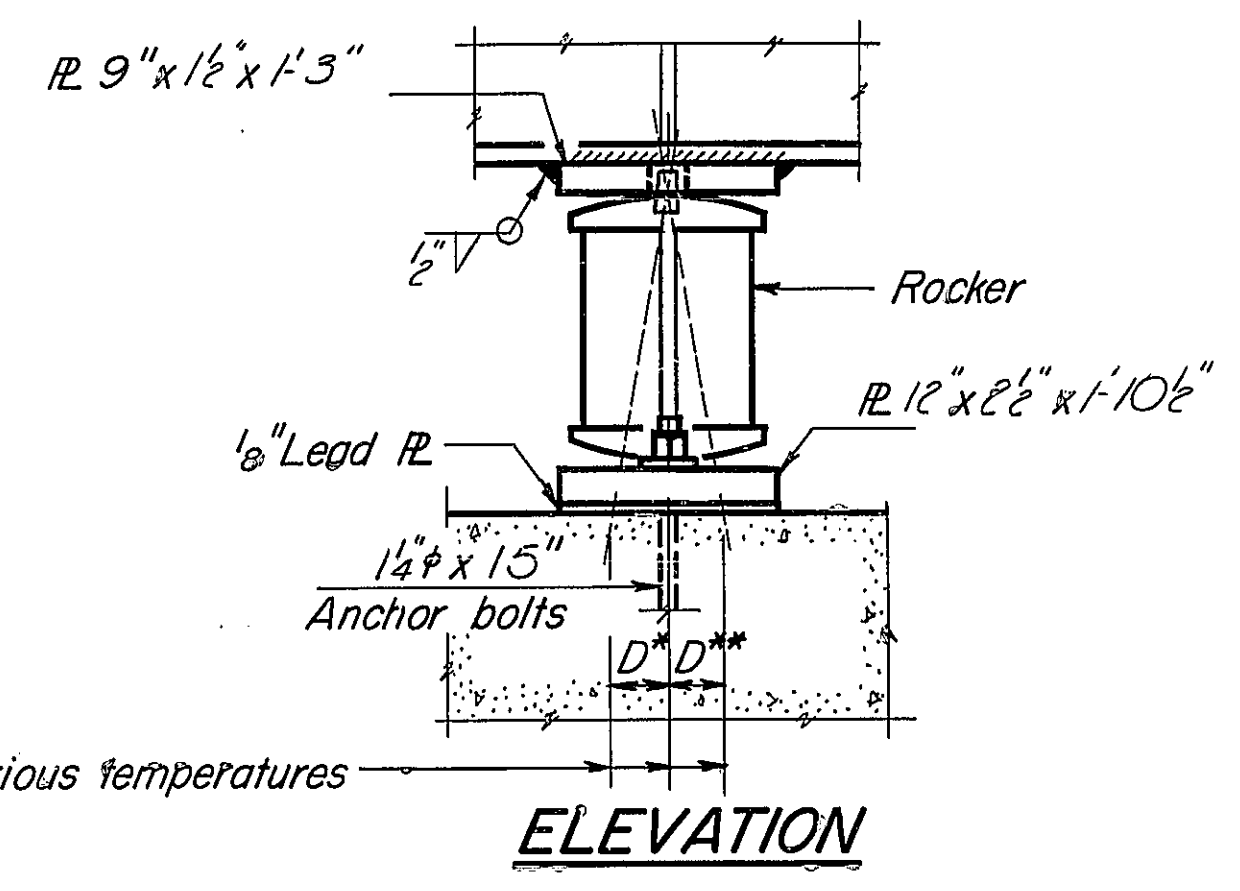


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

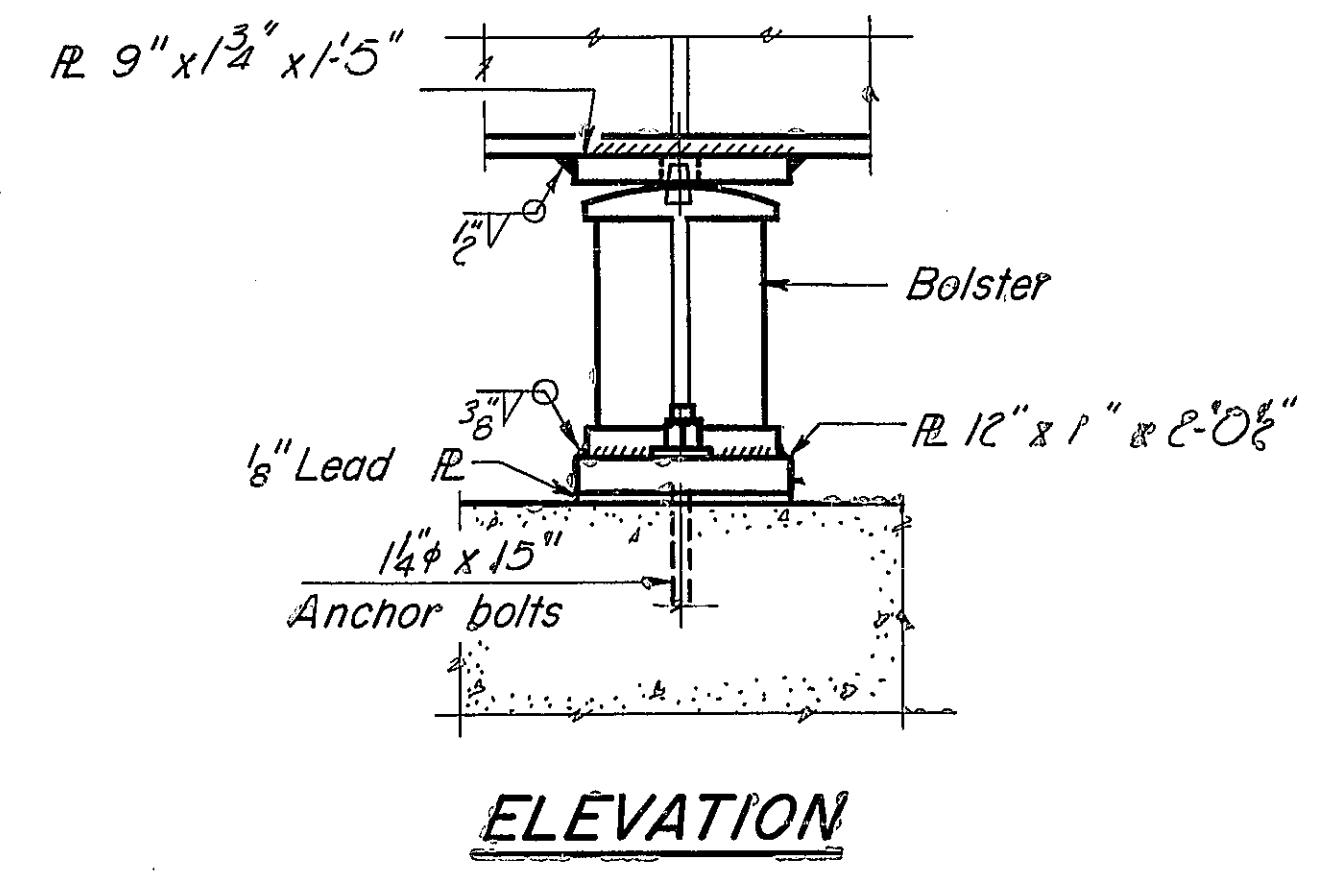
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
RD. 1, 55	68-41B	Mont.	44	20	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:			



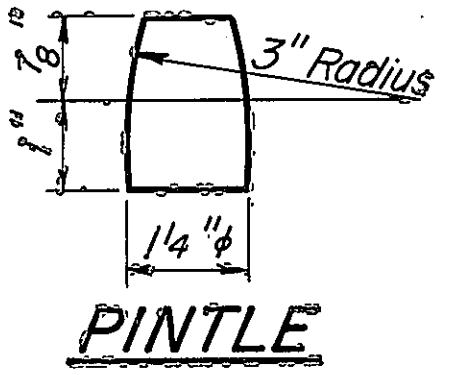
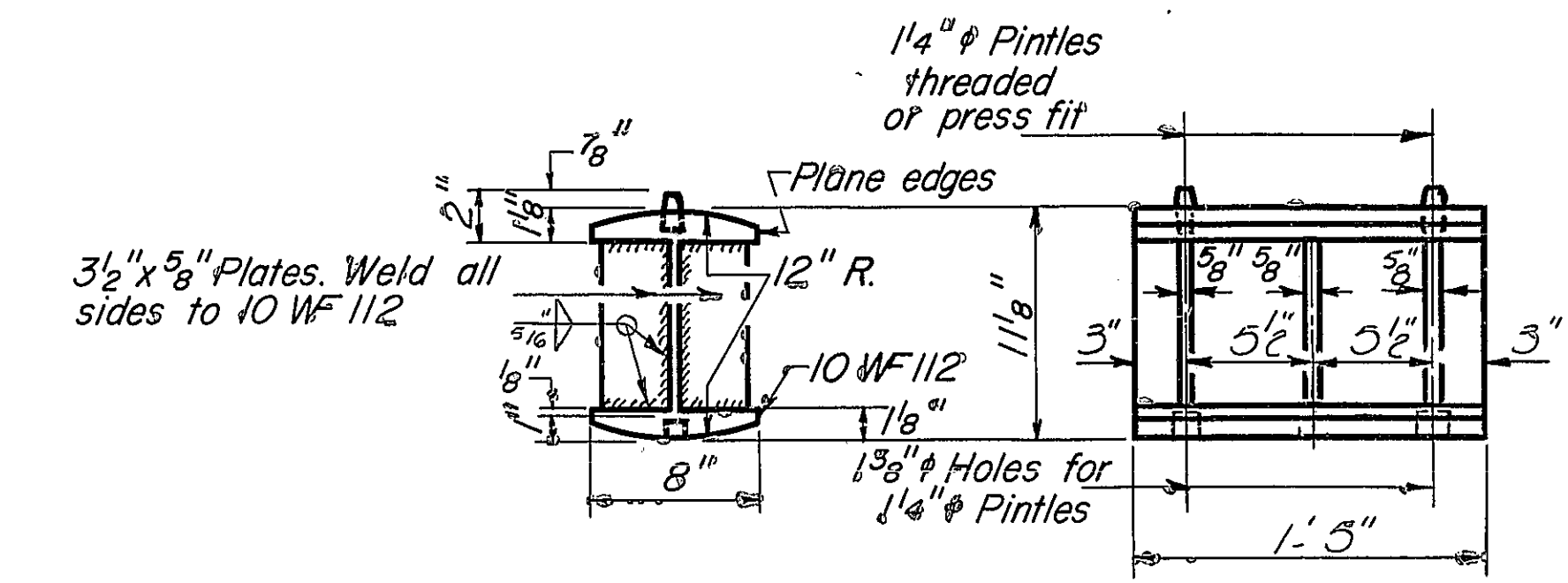
SECTION



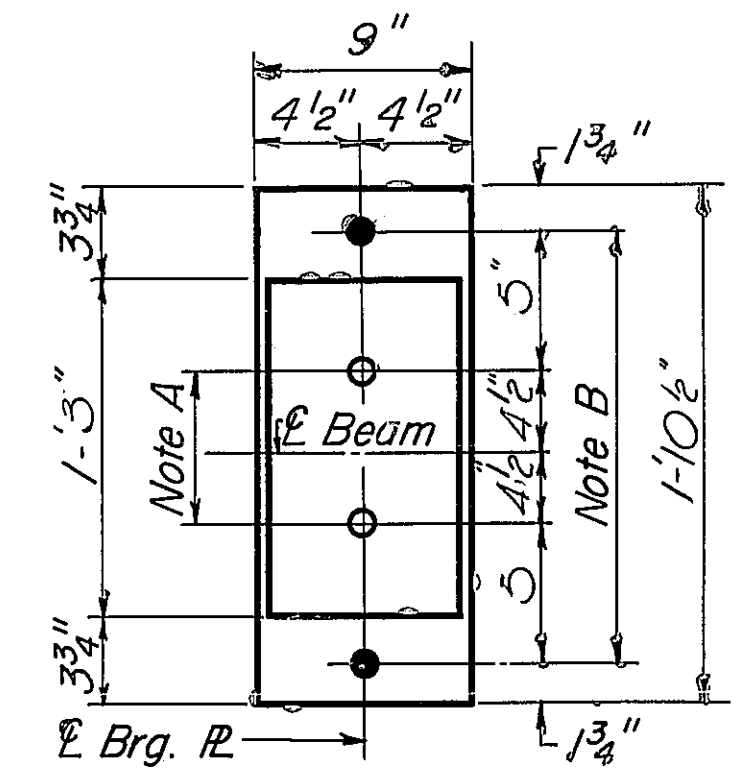
ELEVATION



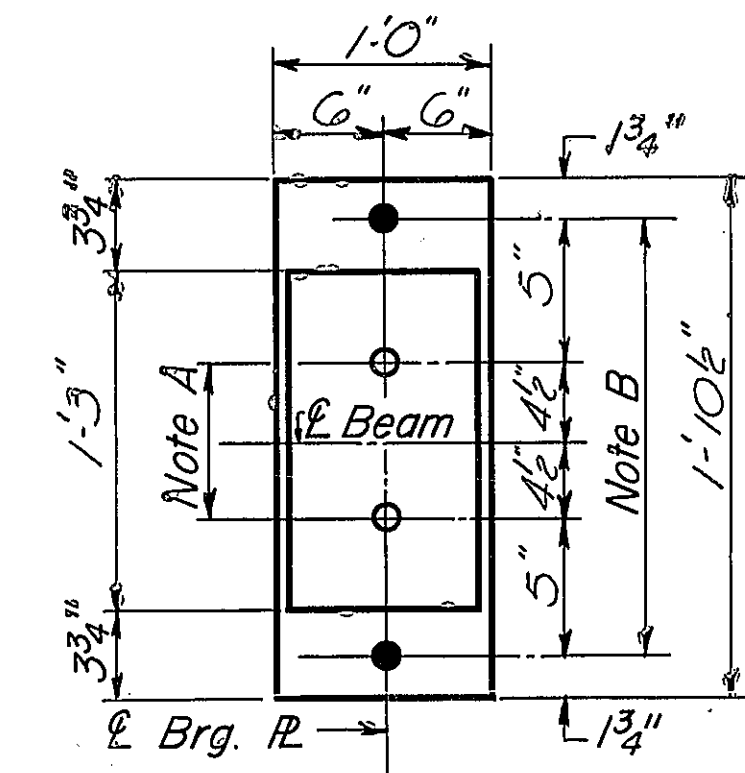
ELEVATION



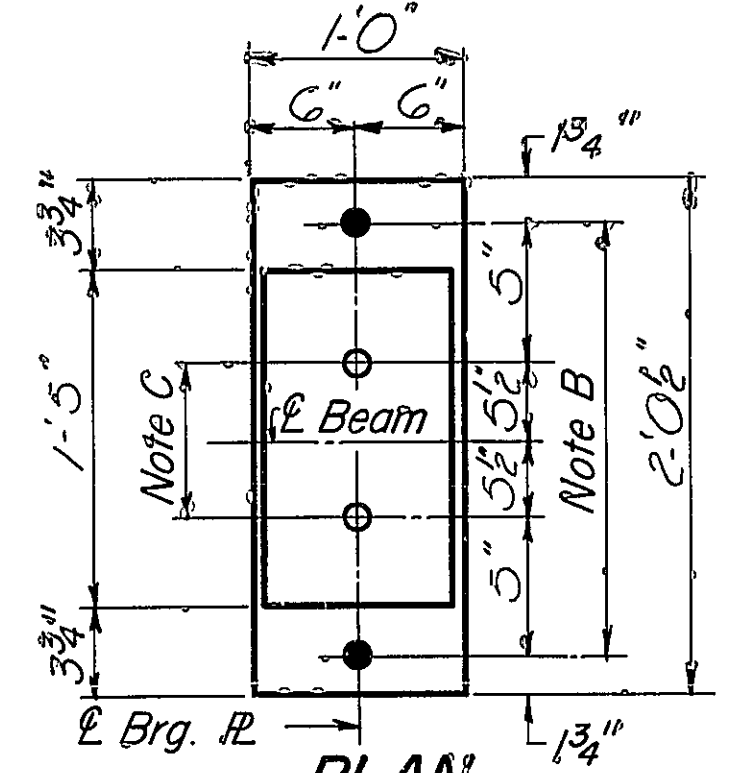
ROCKER
DT. EAST ABUTMENT



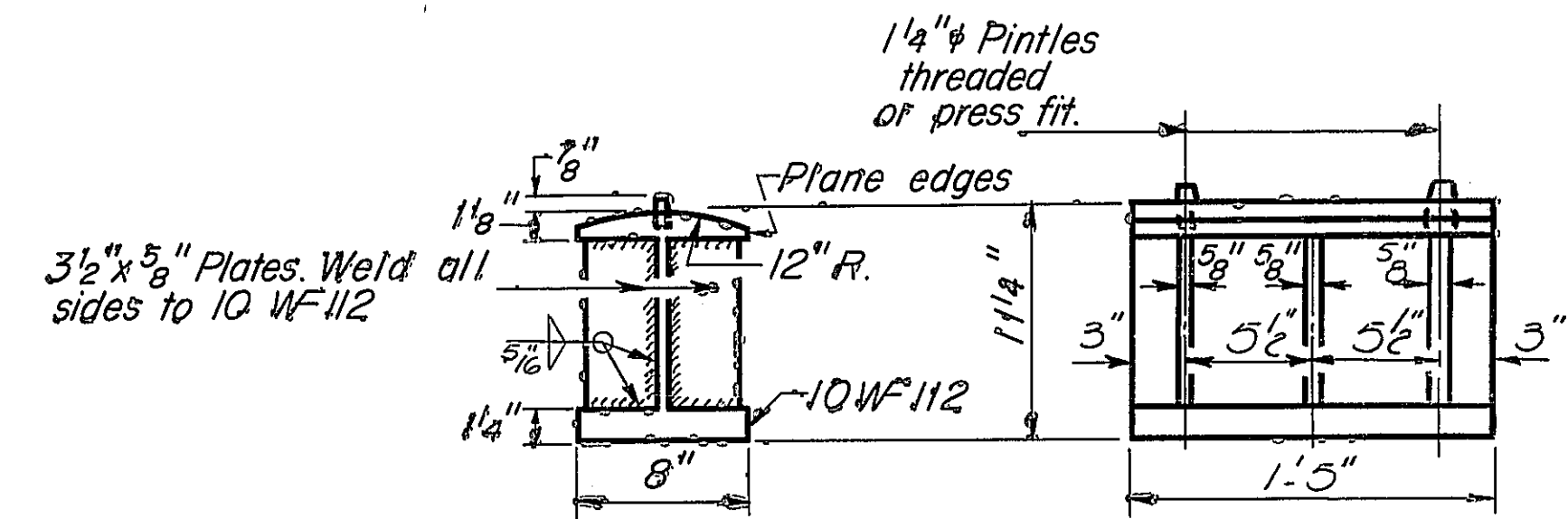
PLAN
AT WEST ABUTMENT



PLAN
AT PIER #1



PLAN
AT PIER #2



BOLSTER
DT. PIER #2

NOTE A
1.5" Holes - 1" deep in top R.
for pintles. Thread or press fit
pintles into bottom R.

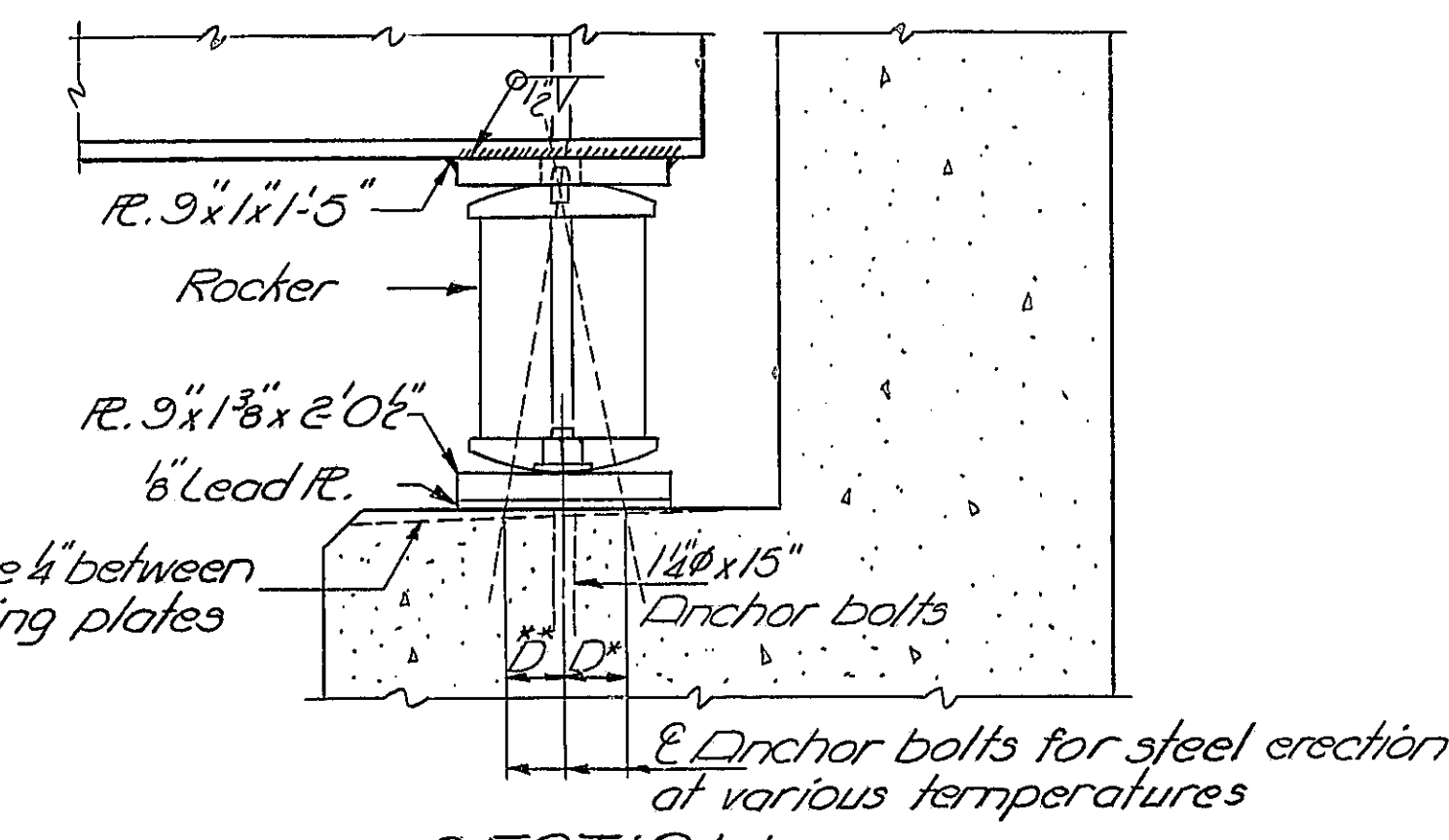
NOTE B
1.5" Holes for 1.5" anchor bolts.
2.5" x 2.5" x 1/16" R. Washers
under nut.

NOTE C
1.5" Holes 1" deep in top R.
only for 1.5" pintles.

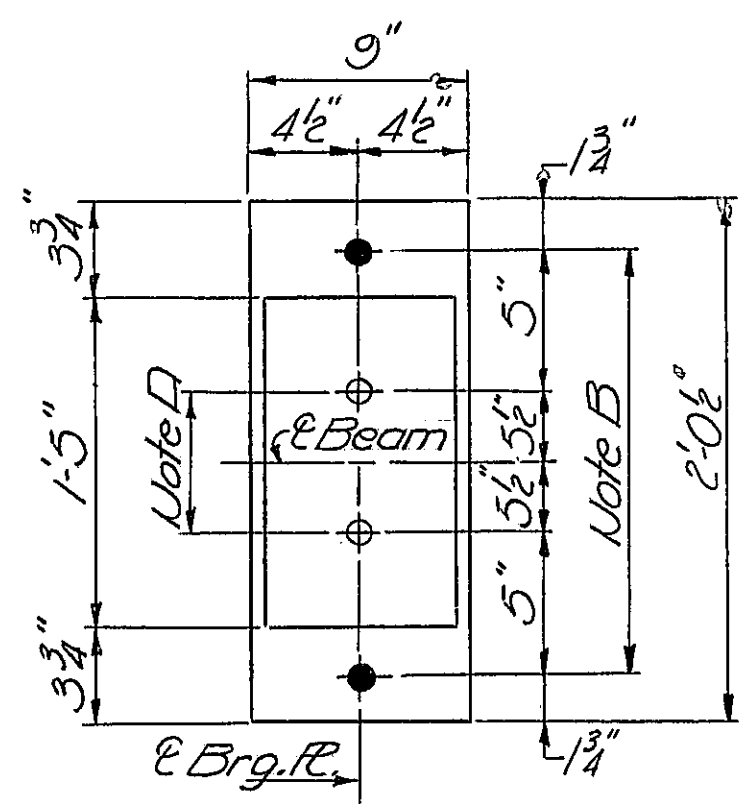
BEARING ASSEMBLY DETAILS

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

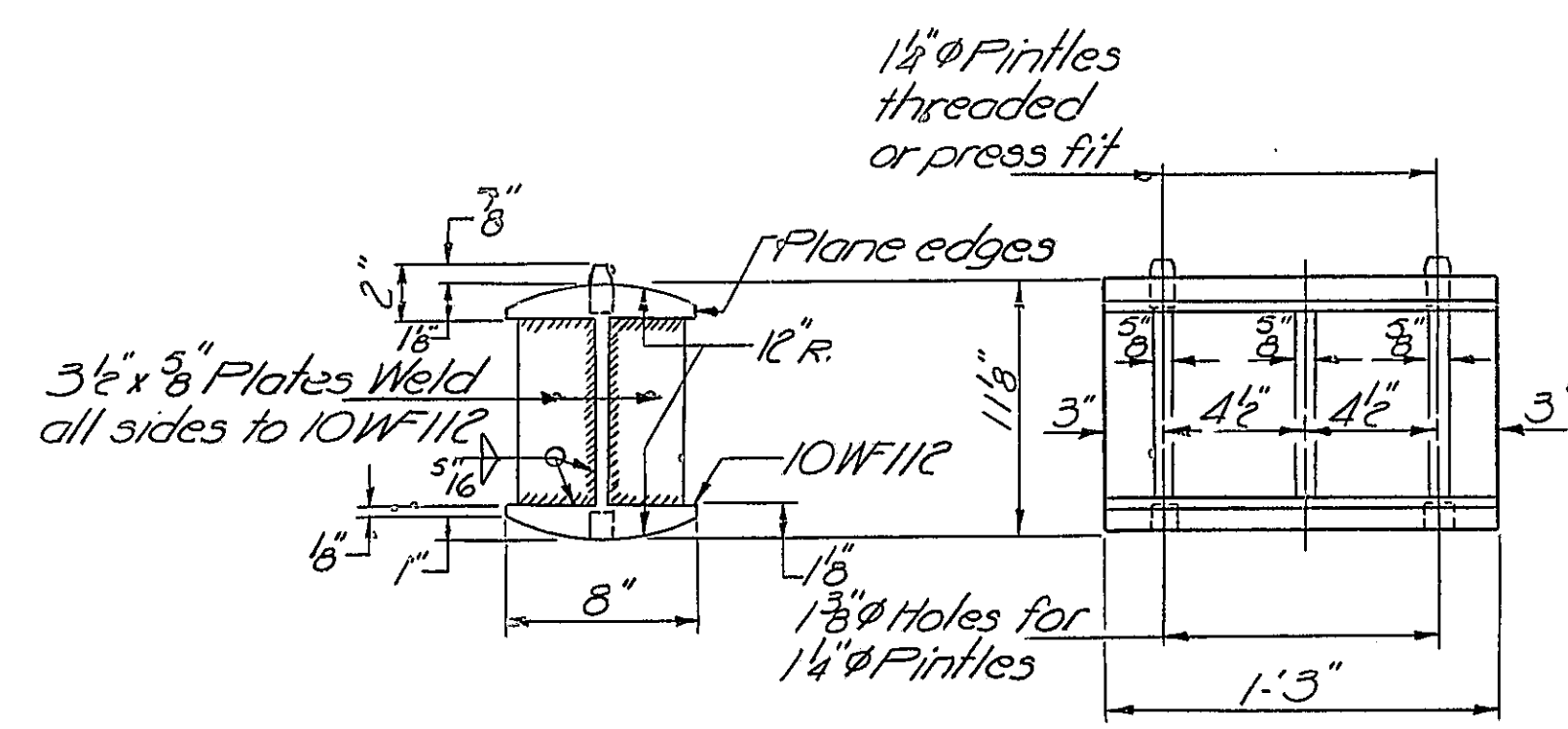
- a) D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50°F.
- D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50°F.
- b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



SECTION



PLAN



ROCKER DT. WEST ABUTMENT
DT. PIER #1

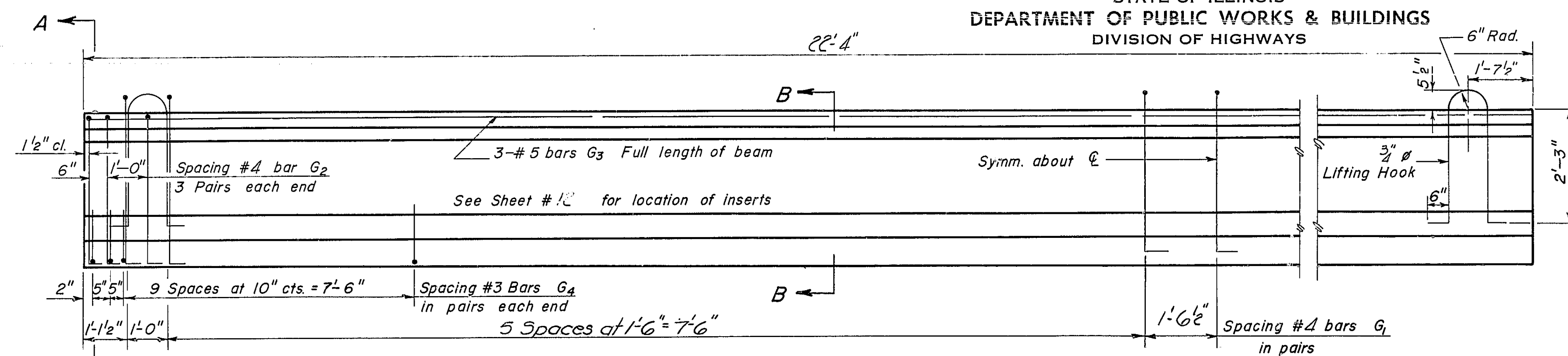
DESIGNED	D.A. Ryan	EXAMINED	April 23 1970
CHECKED	Rao.G.k	PASSED	W.G. Baumann
DRAWN	J.D.	APPROVED	Richard H. Hollman
CHECKED	Rao.G.k		

I-2-B 9-1-65

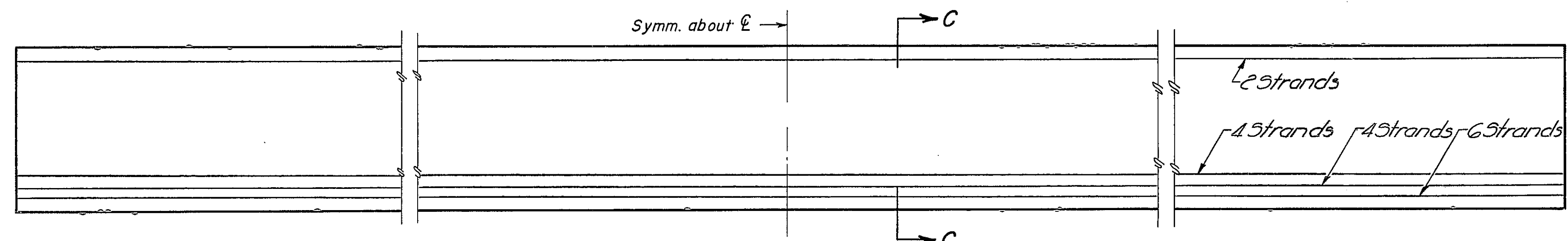
BEDRING DETAILS
F.D.I. RT. 55 SEC. 68-41B
MONTGOMERY COUNTY
ST.D. 1285+90.33

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

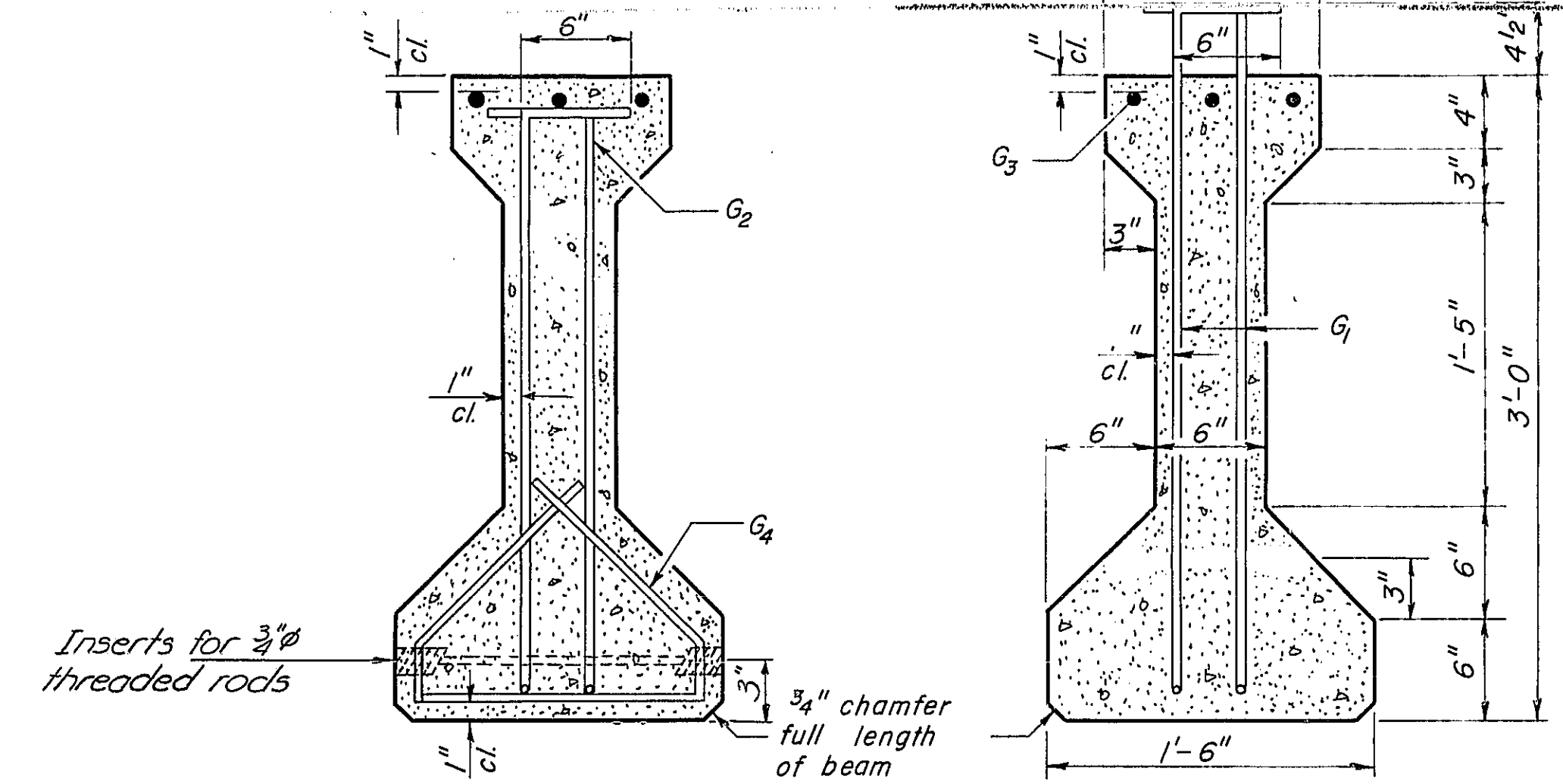
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 20 SHEETS
P.A. 1, 55	68-4HB	Mont.	44	21	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



ELEVATION OF BEAMS
Showing Reinforcement & Dimensions

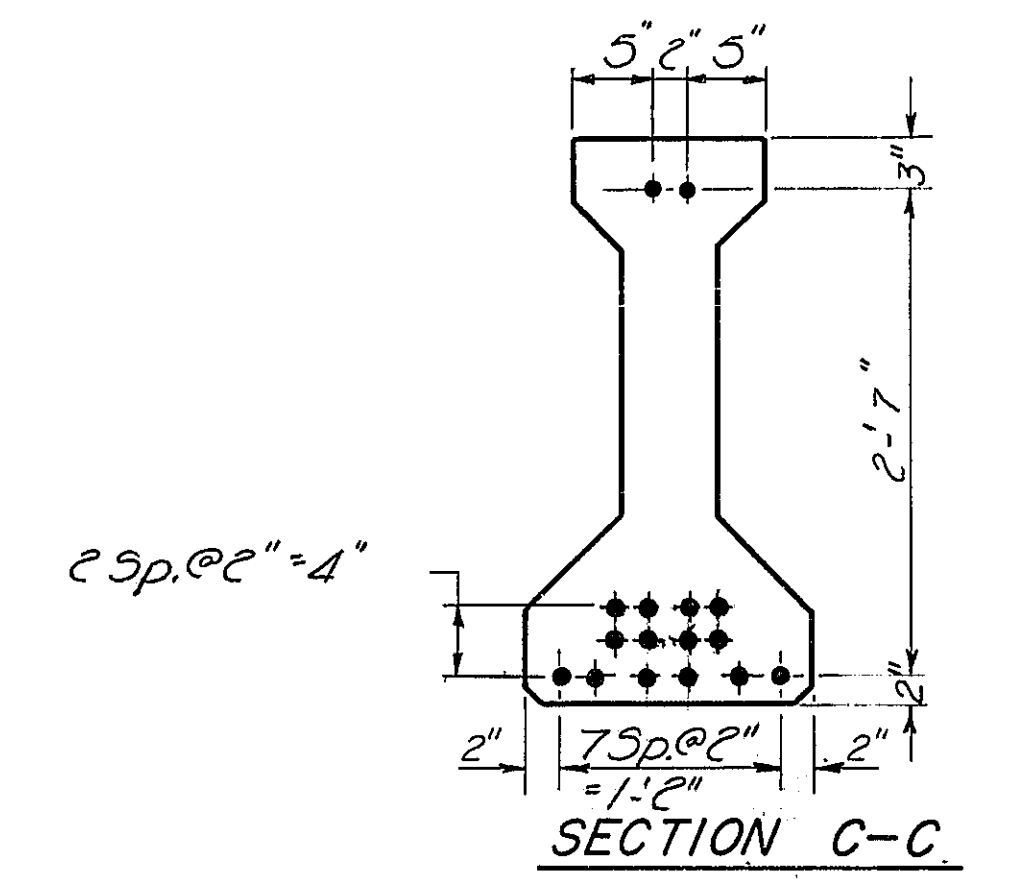


ELEVATION OF BEAMS
Showing Prestressing Steel

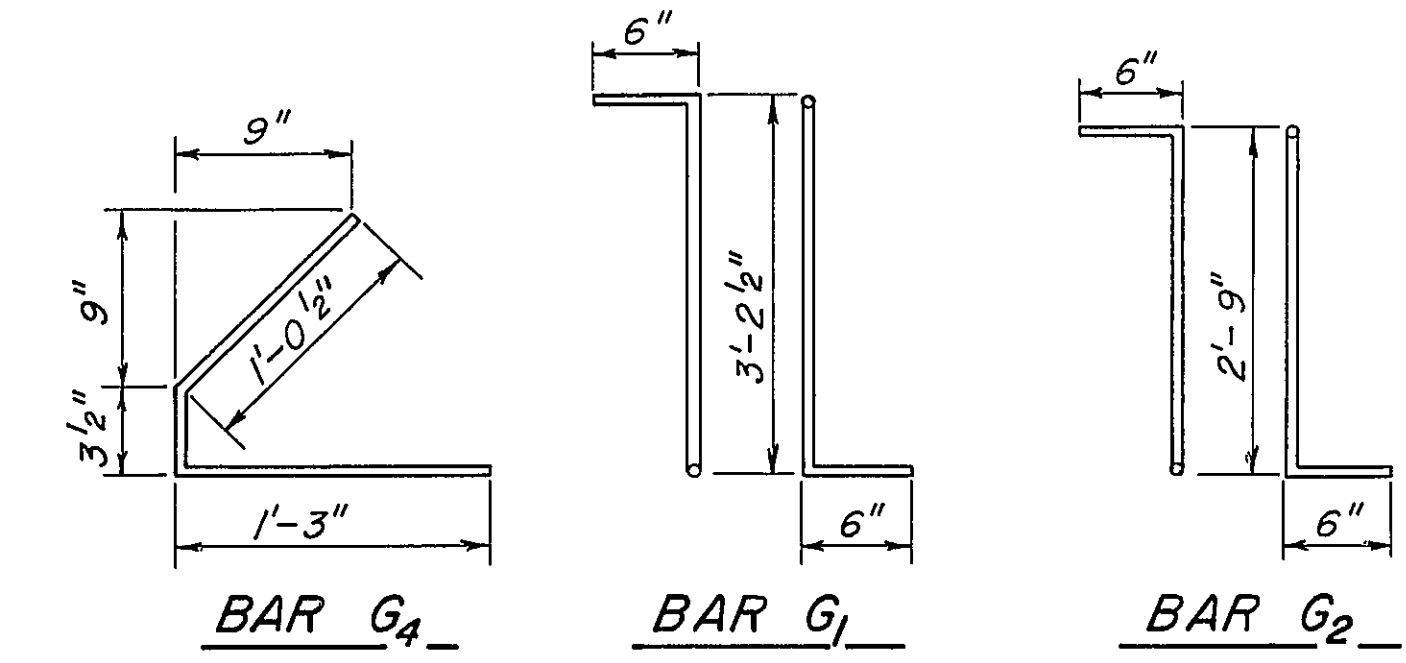


SECTION A-A

SECTION B-B



SECTION C-C



*** BAR LIST**

Bar	No.	Size	Length	Shape
G1	50	#4	4'-2 1/2"	TL
G2	12	#4	3'-9"	TL
G3	3	#5	22'-0"	—
G4	45	#3	2'-7"	L

* For one beam only.

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin. Ft.	670

NOTES

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 36 In."

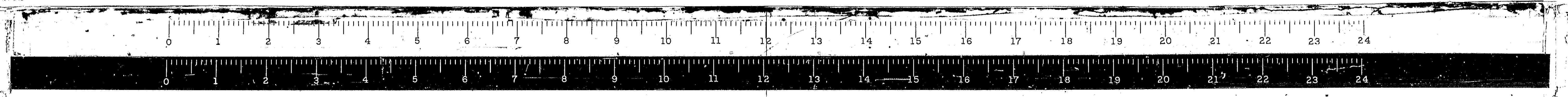
Prestressing Steel shall have a nominal diameter of 7/16".
Inserts for 3/8" threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.
Steel for lifting hooks shall be ASTM A-306 Grade 70-80.

WEST APPROACH BEDMS
F.D.I. RT. 55 SEC. 68-4HB
MONTGOMERY COUNTY
STD. 1285+90.33

DESIGNED D.A. Ryan
CHECKED Rao. G.K.
DRAWN J.D.
APPROVED Richard H. Holtzman
CHIEF HIGHWAY ENGINEER

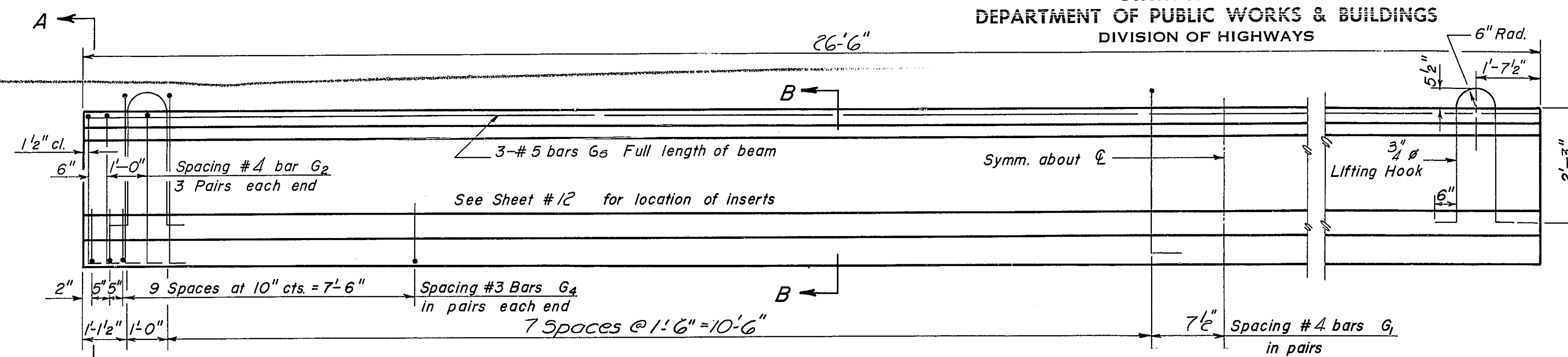
APRIL 22 1970
EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]

PI-4-36 S 8-1-63 Rev. 1-2-64 Rev. 1-17-65 Rev. 5-20-68

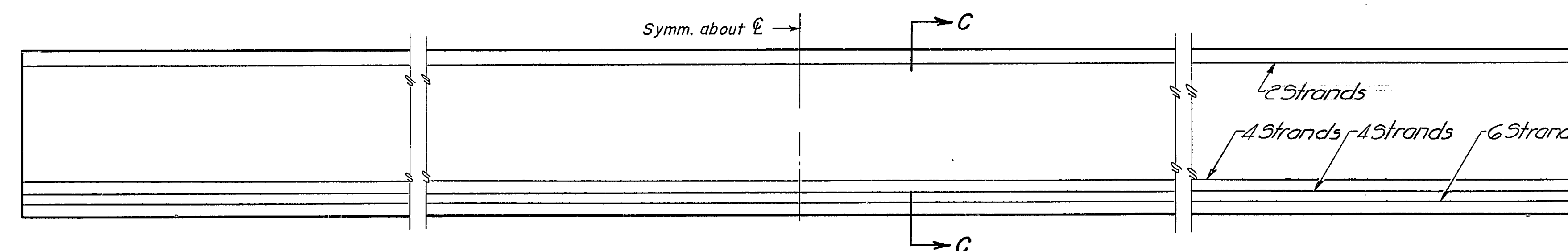


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

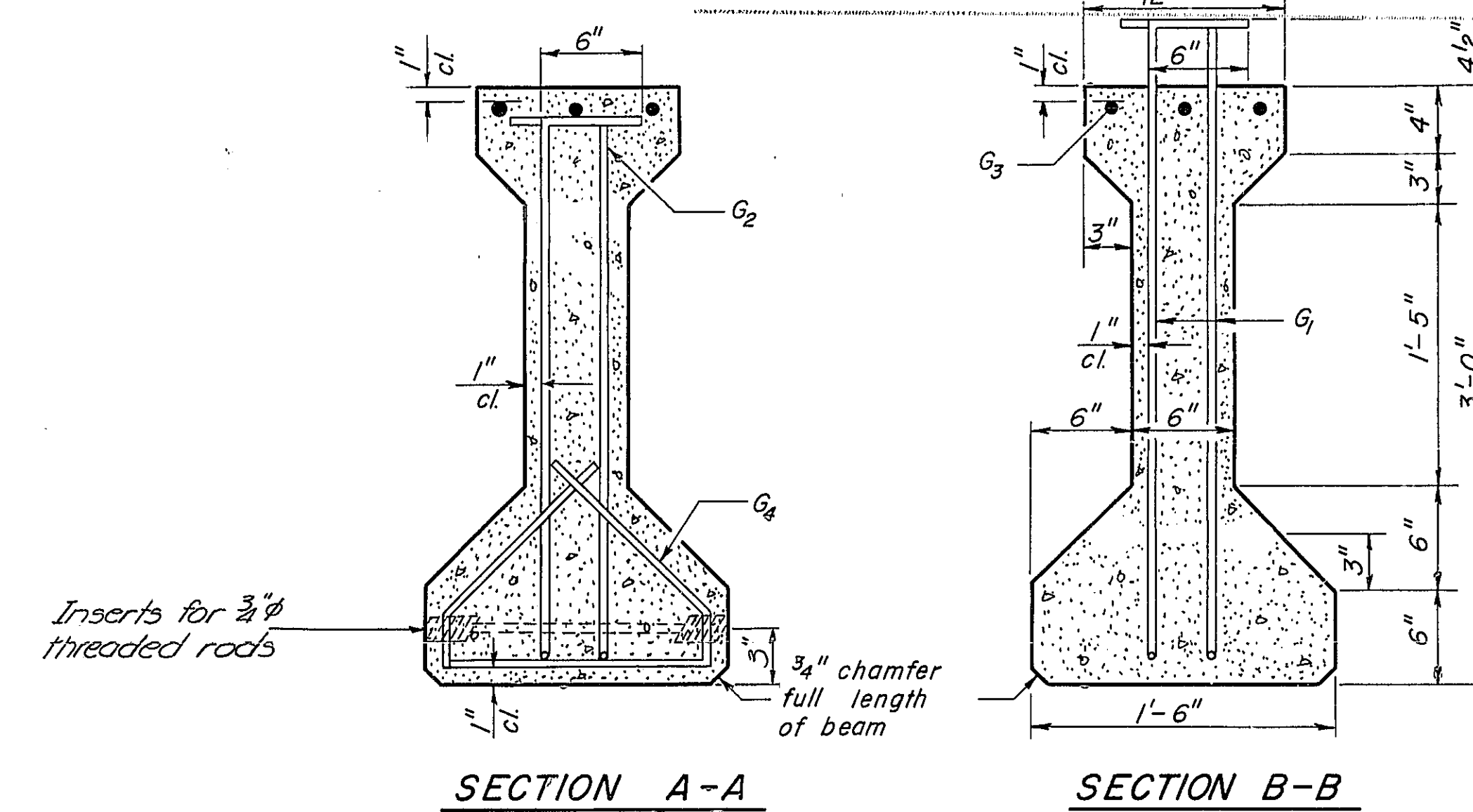
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68-418	Mont.	44	22	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		



ELEVATION OF BEAMS
Showing Reinforcement & Dimensions

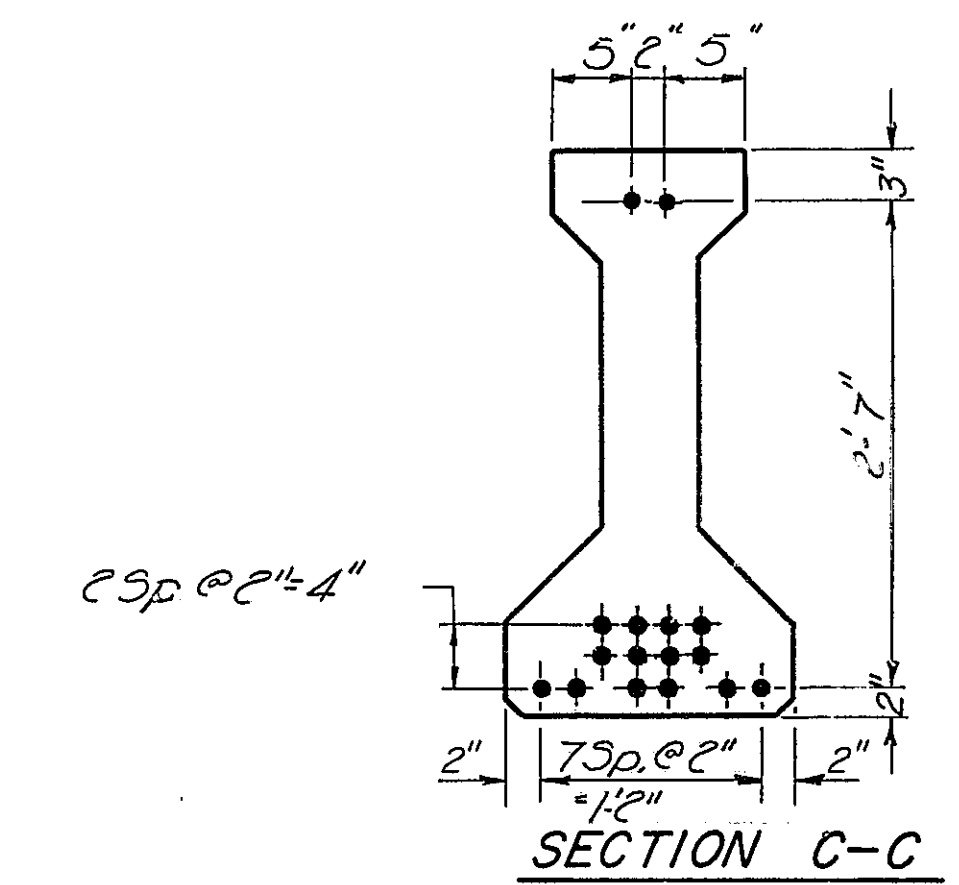


ELEVATION OF BEAMS
Showing Prestressing Steel

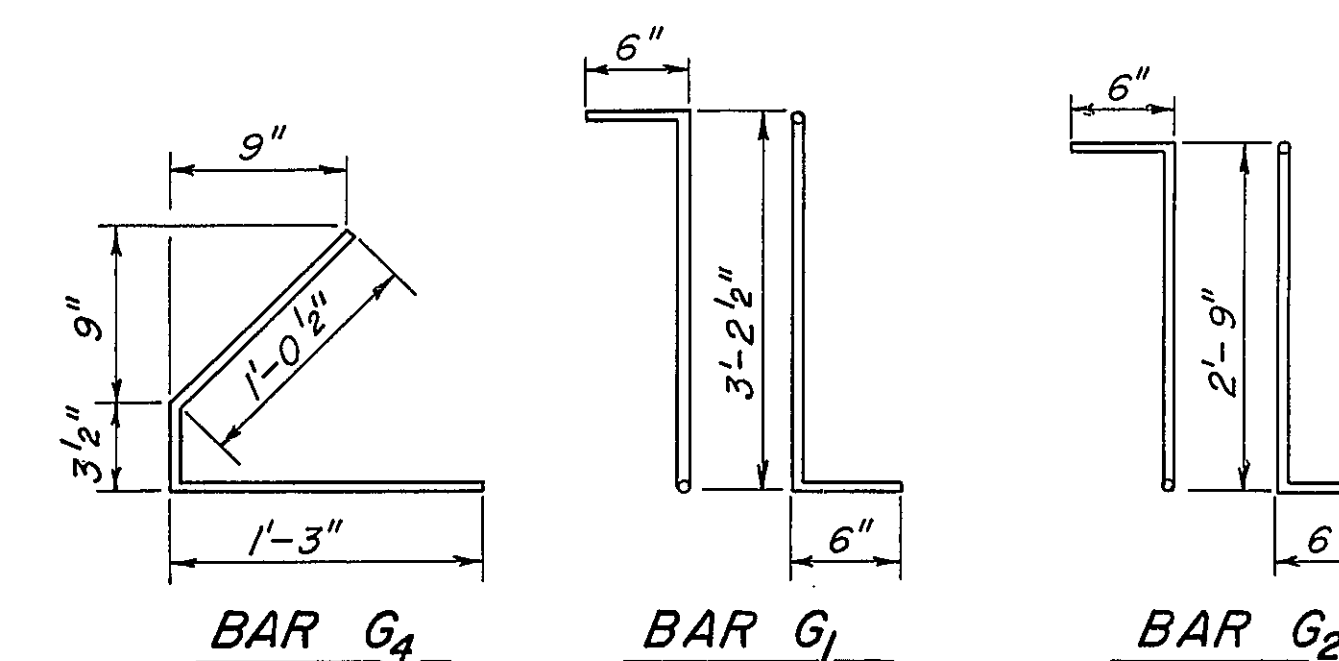


SECTION A-A

SECTION B-B



SECTION C-C



BAR G₄

BAR G₁

BAR G₂

*** BAR LIST**

Bar	No.	Size	Length	Shape
G ₁	36	#4	4'-2 1/2"	┐┌
G ₂	12	#4	3'-9"	┐┌
G ₄	48	#3	2'-7"	┐┌
G ₅	3	#5	26'-2"	—

* For one beam only.

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin. Ft.	79.5

NOTES

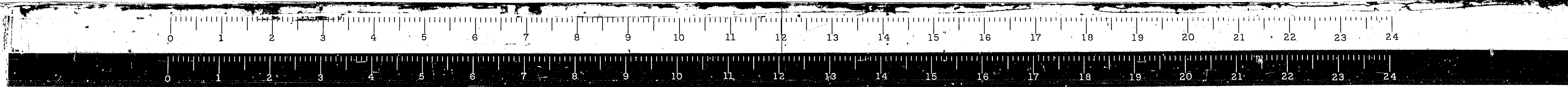
All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 36 In."

Prestressing Steel shall have a nominal diameter of 1/16".
Inserts for 3/8" threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.
Steel for lifting hooks shall be ASTM A306 Grade 70-80.

EST. APPROX. BEAMS
F.D.I. RT. 55 SEC. 68-418
MONTGOMERY COUNTY
STA. 1285+90.33

DESIGNED <i>D.A. Ryan</i>	EXAMINED <i>[Signature]</i>
CHECKED <i>R.A.O. G.K.</i>	PASSED <i>[Signature]</i>
DRAWN <i>J.D.</i>	APPROVED <i>[Signature]</i>
CHECKED <i>R.A.O. G.K.</i>	

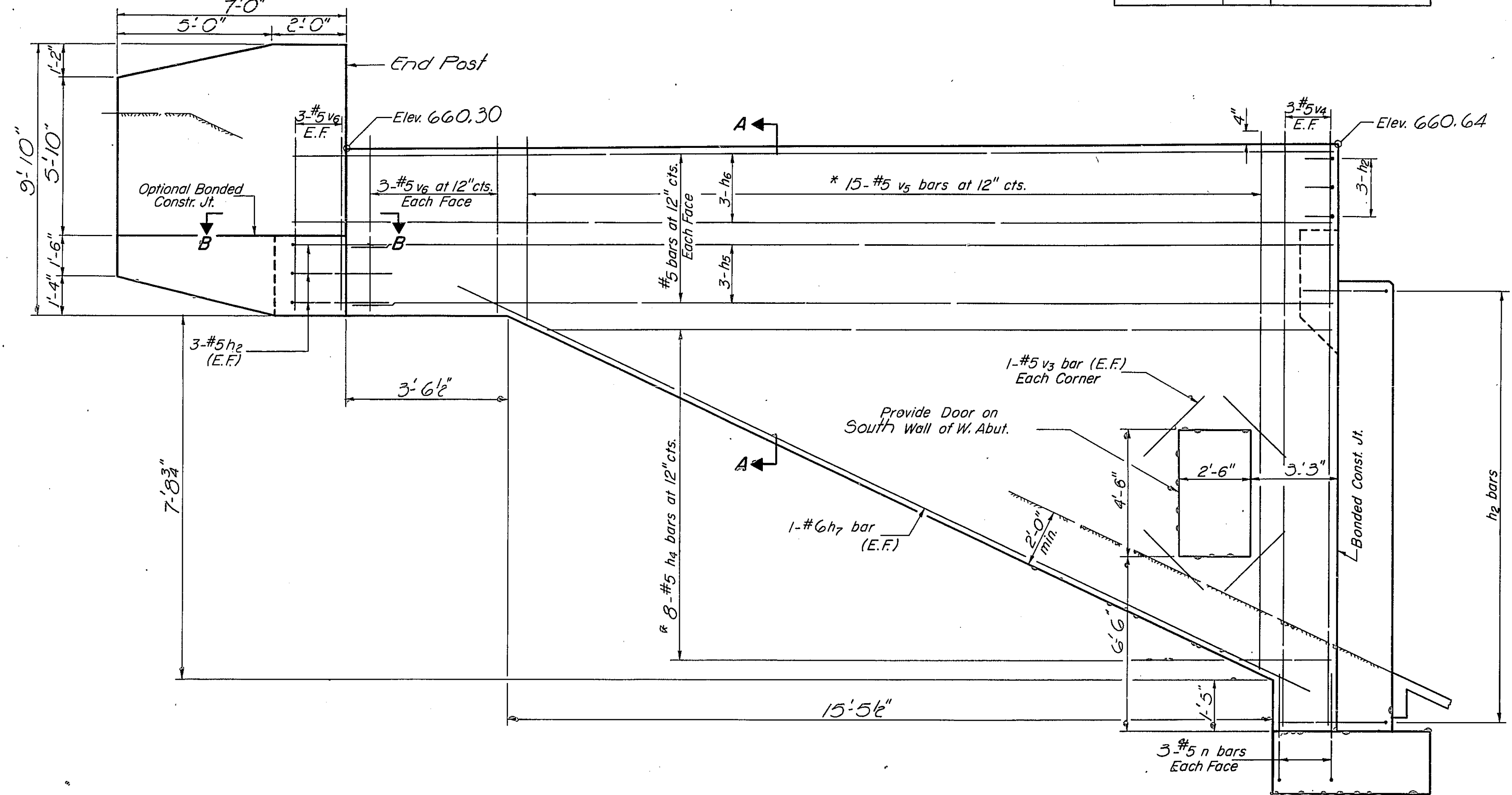
PI-4-36S 8-1-63 Rev. 1-2-64 Rev. 1-27-66 Rev. 5-20-68



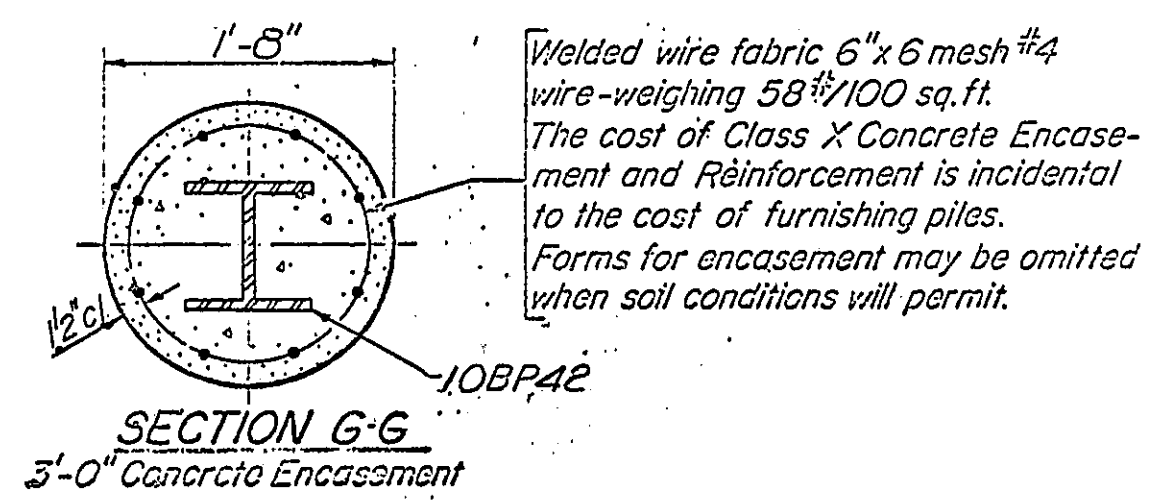
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 55	68-4HB	Mont.	44	25
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 14
20 SHEETS

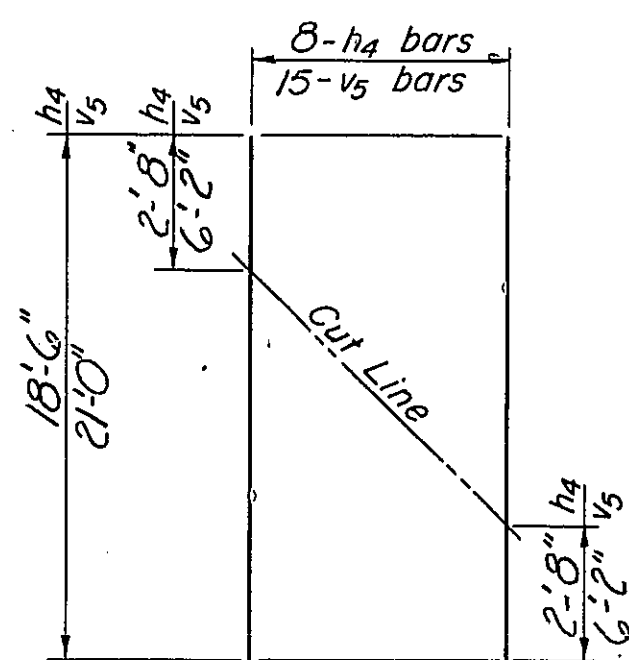


SIDE ELEVATION



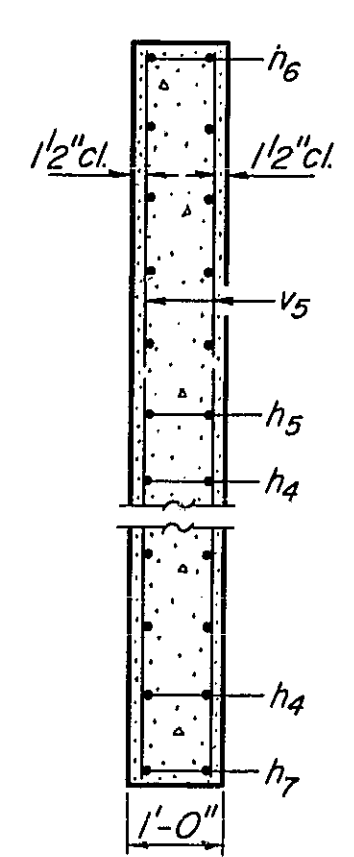
APPR. BENT - PILE DATA
Type Steel 10BP42
Capacity Drive to refusal
Est. Length 88'
No. Req'd. 5

ABUT - PILE DATA
Type Steel 10BP42
Capacity Drive to refusal
Est. Length 77'
No. Req'd. 3+1 Test pile

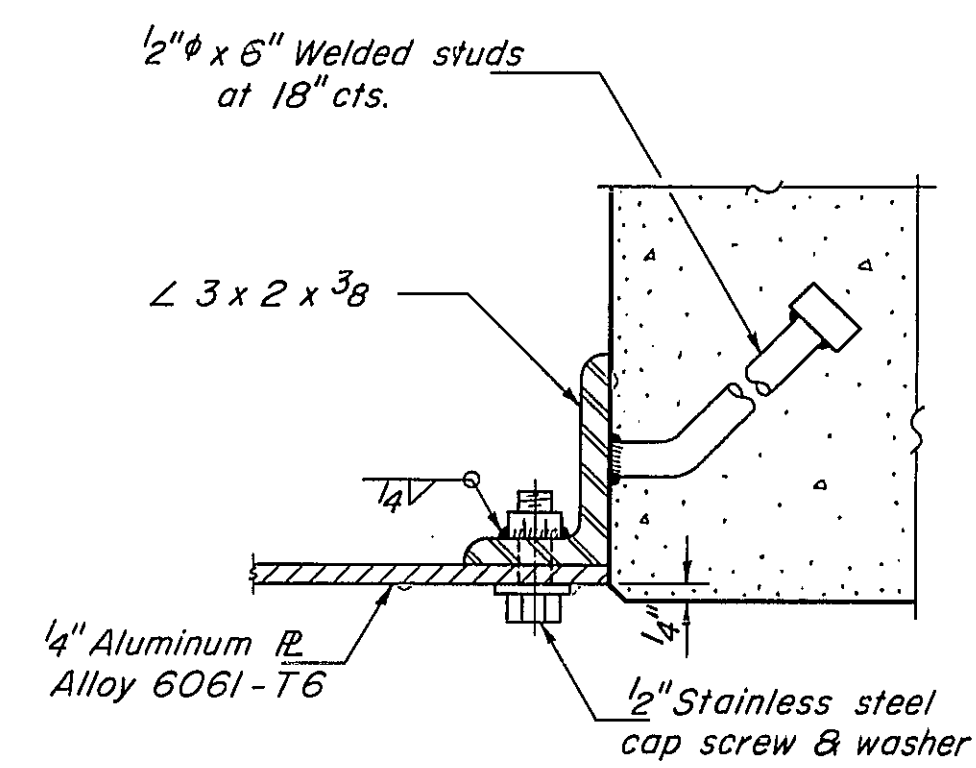


FIELD CUTTING DIAGRAM

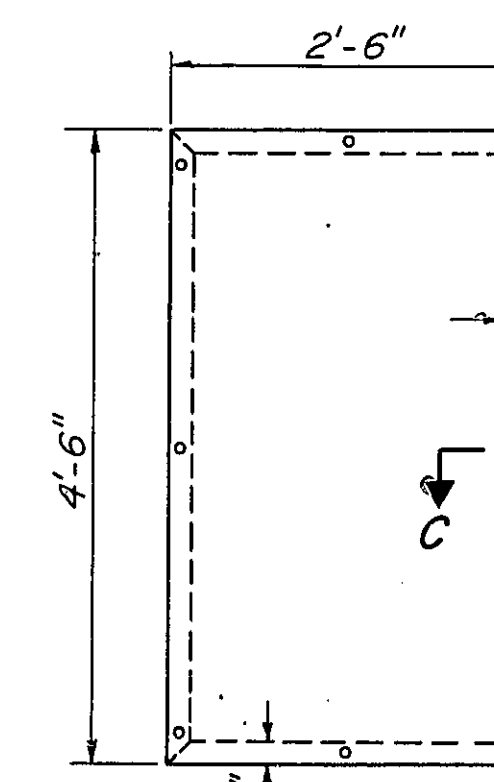
* Order h4 & v5 bars full length.
Cut to fit as shown and use remainder of bars in other face.



SECTION A-A



SECTION C-C



DOOR ELEVATION
(Cost of door and frame are incidental)

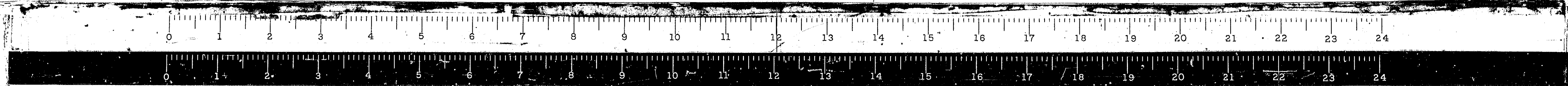
WEST ABUTMENT
CURTAIN WALLS
F.D.I. RT. 55 SEC. 68-4HB
MONTGOMERY COUNTY
STA. 1285+90.33

DESIGNED *D.A. Ryan*
CHECKED *Rad. G.k.*
DRAWN *J.D.*
CHECKED *Rad. G.k.*

EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*
CHIEF HIGHWAY ENGINEER

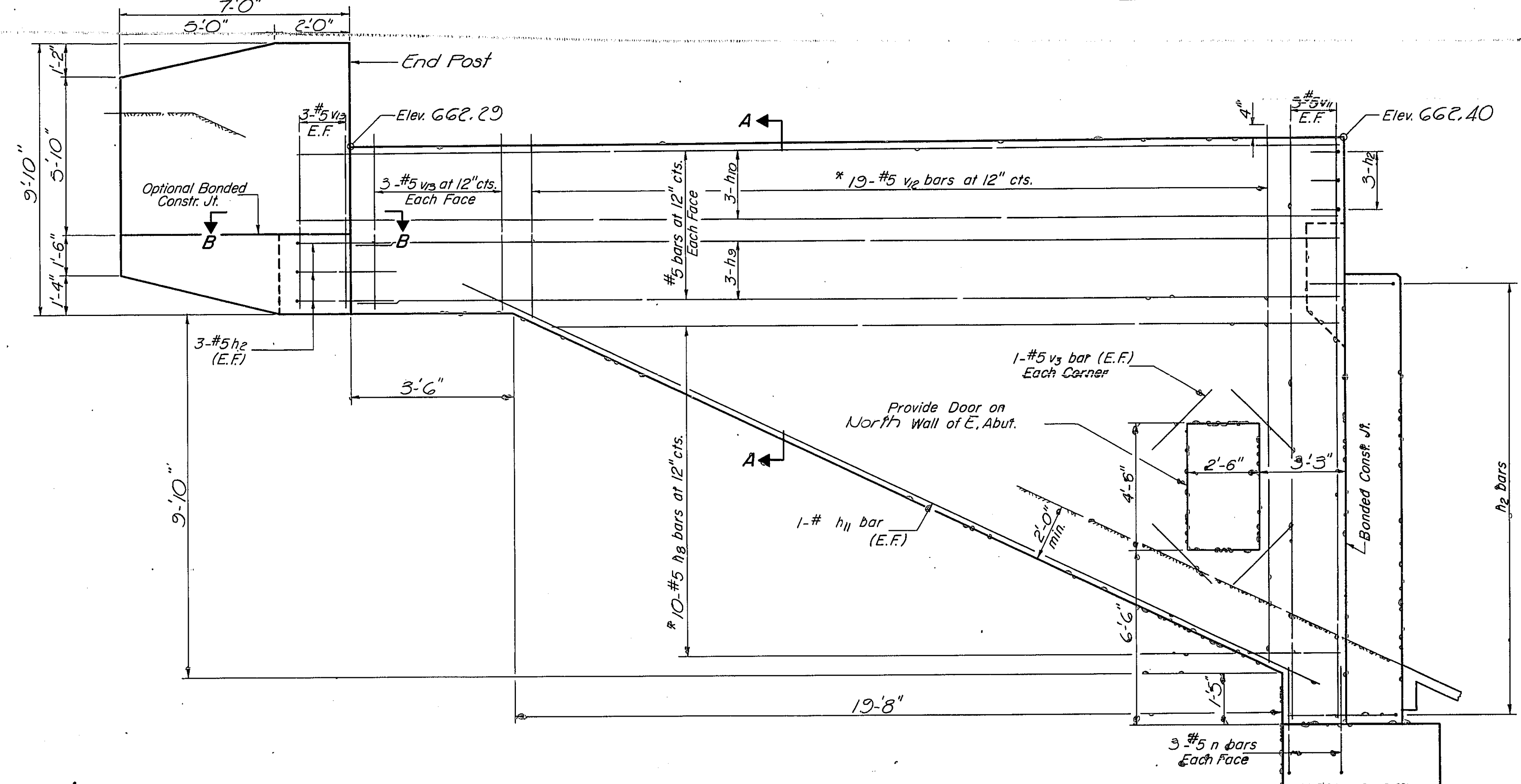
VA-W 3-17-69

33334 748 750 122 10-64



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

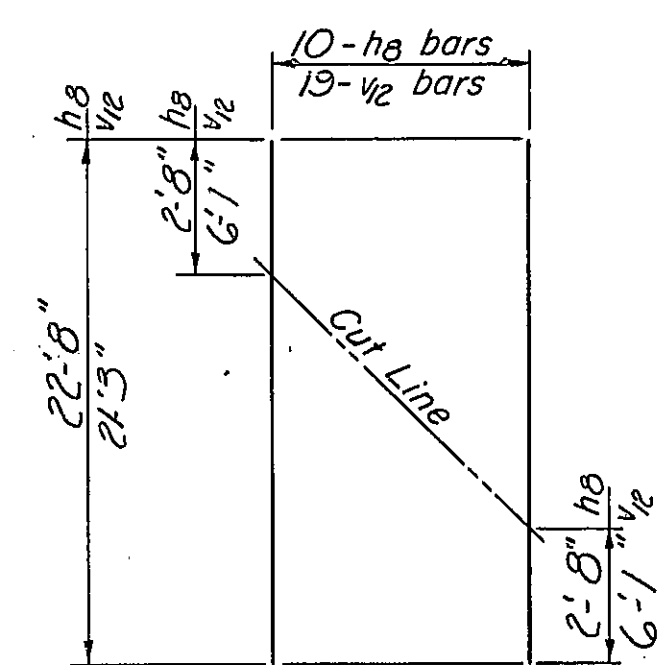
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
1-1-55	18-4HB	Mont	44	27	20 SHEETS
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT		



SIDE ELEVATION

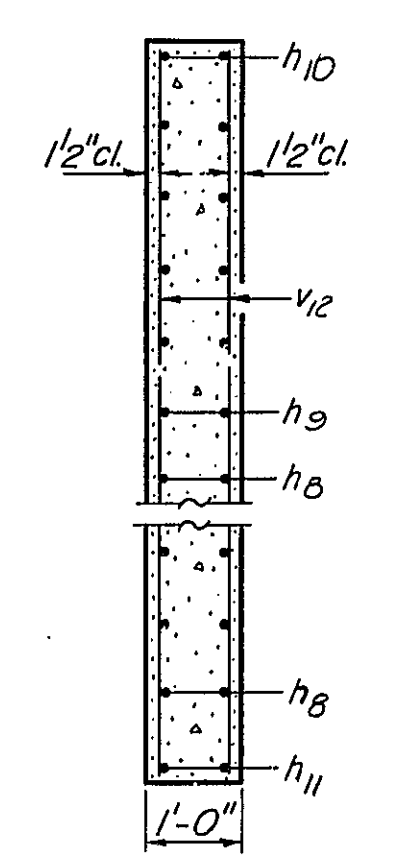
APPR. BENT - PILE DATA
Type Steel 10BP42
Capacity Drive to refusal
Est. Length 30'
No. Req'd. 5

ABUT. - PILE DATA
Type Steel 10BP42
Capacity Drive to refusal
Est. Length 17'
No. Req'd. 10

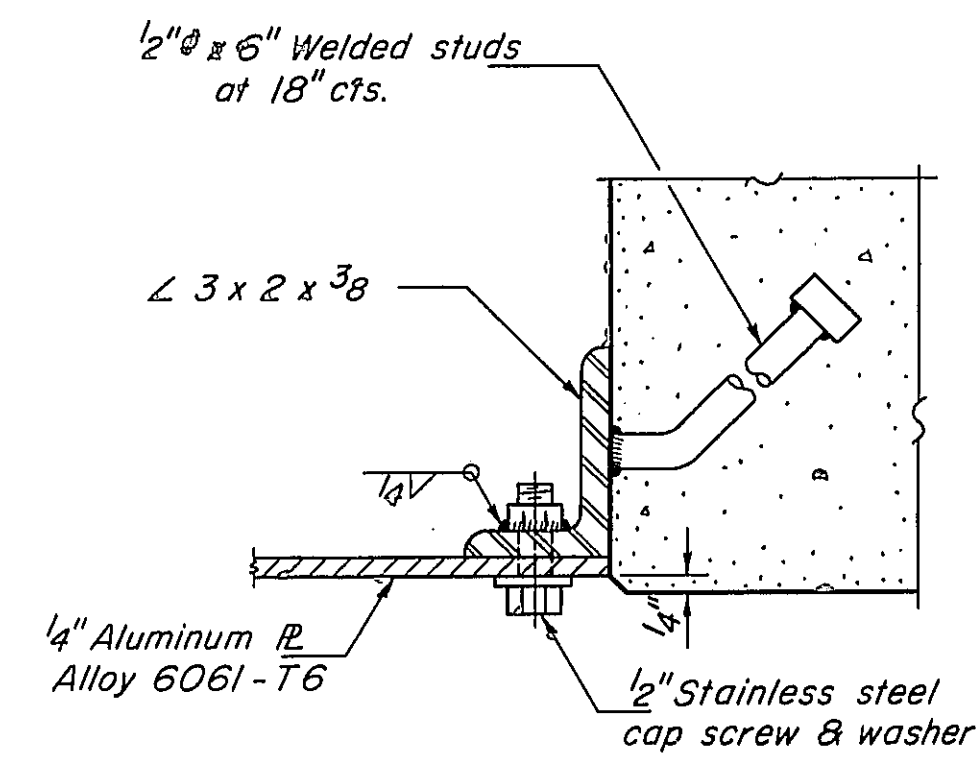


FIELD CUTTING DIAGRAM

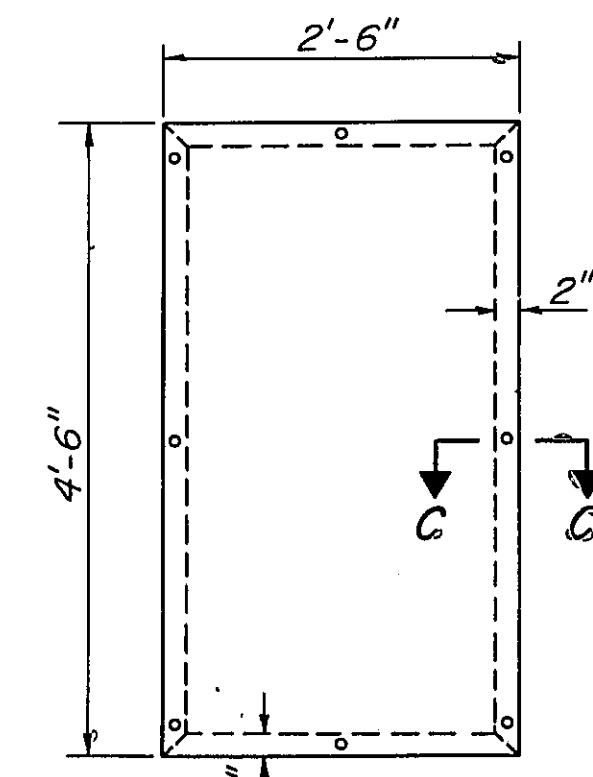
* Order h8 & 1/2 bars full length.
Cut to fit as shown and use
remainder of bars in other face.



SECTION A-A



SECTION C-C



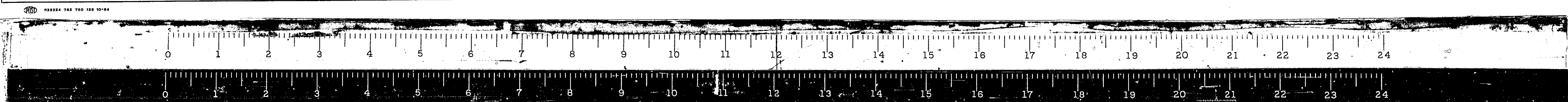
DOOR ELEVATION
(Cost of door and frame are incidental)

DESIGNED	D.A. Ryan
CHECKED	Rao. G.K.
DRAWN	J.D.
CHECKED	Rao. G.K.

APRIL 22 1970
EXAMINED
PASSED
APPROVED
Richard H. Holliman
CHIEF ENGINEER

VA-W 3-17-69

**EAST ABUTMENT
CURTAIN WALLS**
F.D.I. RT. 55 SEC. 68-4HB
MONTGOMERY COUNTY
STD. 1285+90.33

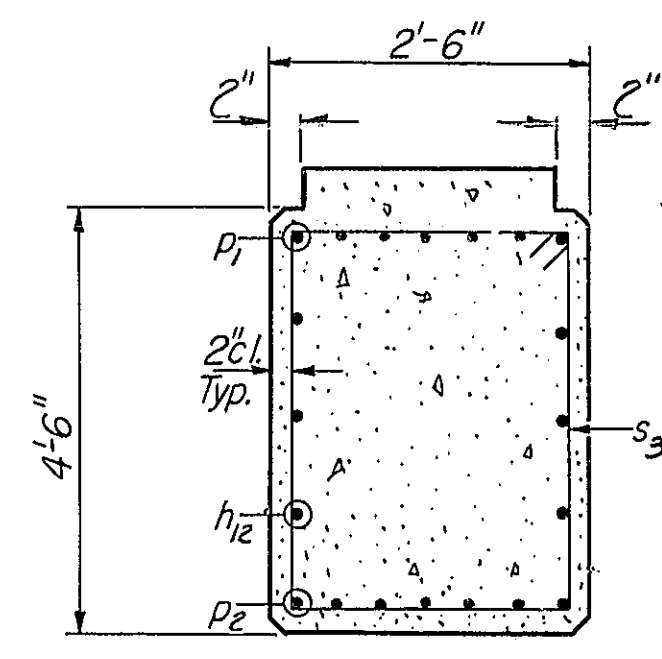
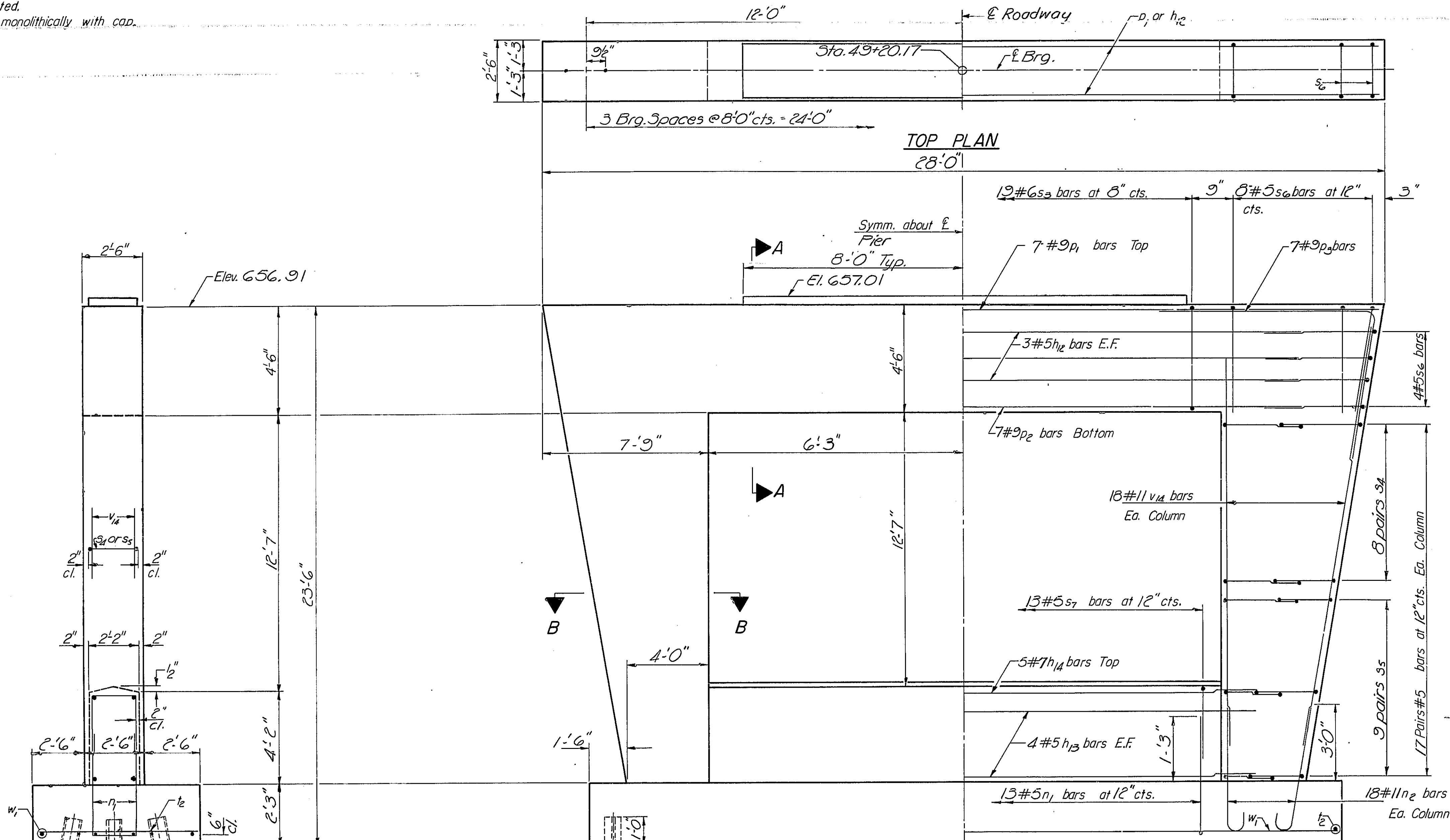


NOTES:

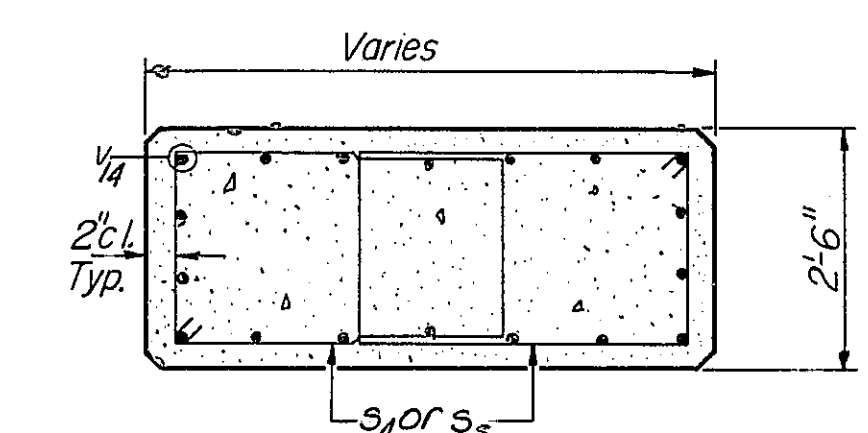
Space reinforcement in cap to miss anchor bolts.
 All edges shall have standard 3/4 chamfers
 except as noted.
 Pour steps monolithically with cap.

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

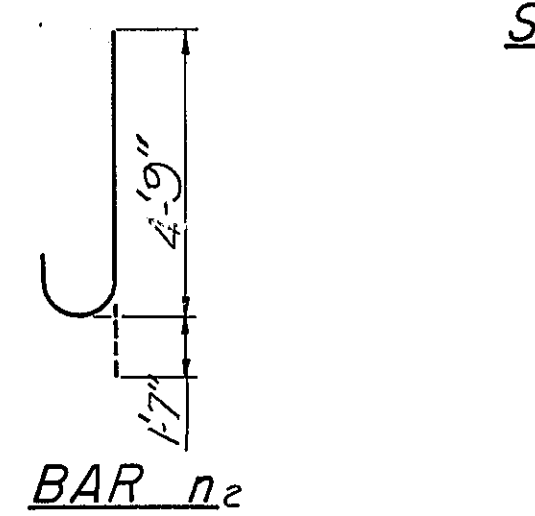
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17
1-1.55	68-4HB	Mont.	44	28	20 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT:		



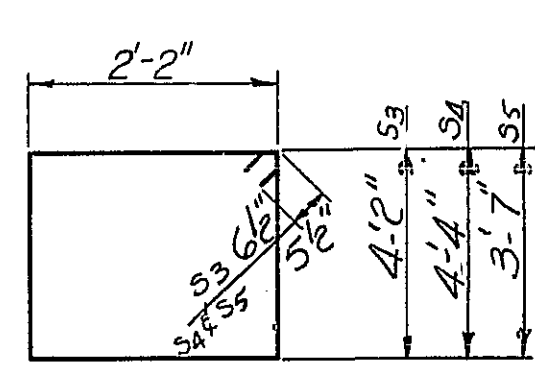
SECTION A-A



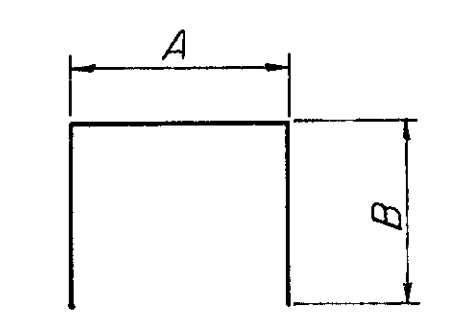
SECTION B-B



BAR n2



BARS s3 through s5



BARS n1, s6 & s7

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2	6	#5	22'-0"	—
h3	8	#5	16'-0"	—
h4	8	#7	17'-0"	—
n1	13	#5	3'-0"	U
n2	36	#11	6'-4"	—
p1	7	#9	27'-8"	—
p2	7	#9	22'-6"	—
p3	14	#9	12'-0"	—
s3	19	#6	13'-3"	□
s4	32	#5	13'-11"	□
s5	36	#5	12'-5"	□
s6	24	#5	10'-6"	□
s7	13	#5	9'-6"	□
l2	20	#8	7'-3"	—
v14	36	#11	20'-0"	—
w1	6	#8	23'-9"	—
Class X Concrete				Cu. Yds. 48.2
Reinforcement Bars				Lbs. 9830
Steel Piles 10BP42				Lin. Ft. 737

ABB DIMENSIONS

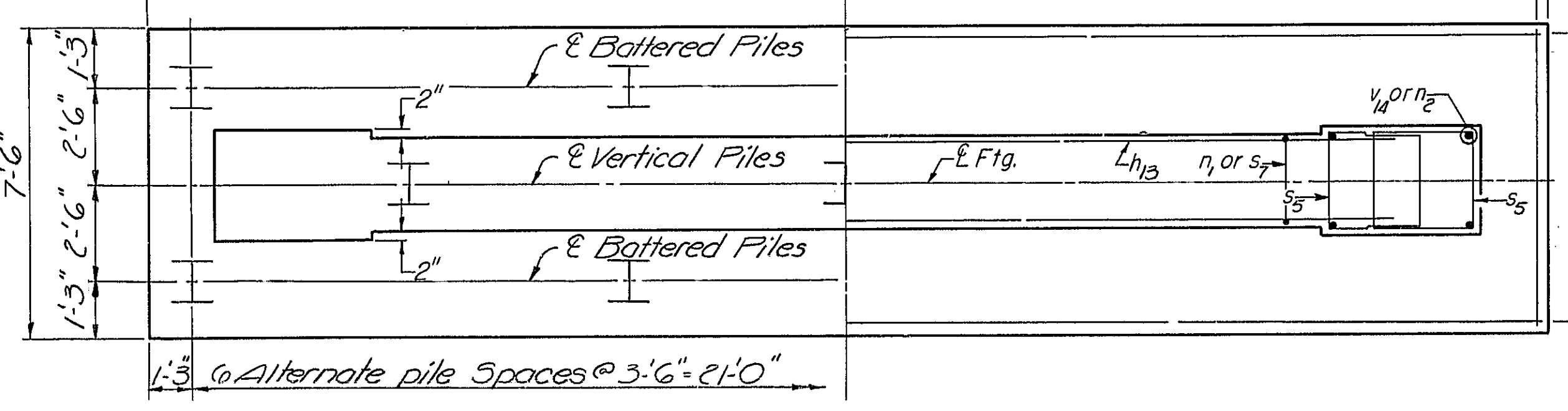
Bar	A	B
n1	1'-10"	3'-1"
s6	2'-2"	4'-2"
s7	1'-10"	3'-0"

PILE DATA
 Type Steel 10BP42
 Capacity Drive to refusal
 Est. Length 67'
 No. Required 11

DESIGNED D.A. Ryan
 CHECKED Rao. G.K.
 DRAWN J.D.
 CHECKED Rao. G.K.
 APRIL 22 1969
 EXAMINED [Signature]
 PASSED [Signature]
 APPROVED [Signature]
 Richard H. Holterman
 CHIEF HIGHWAY ENGINEER

P-11 11-18-69

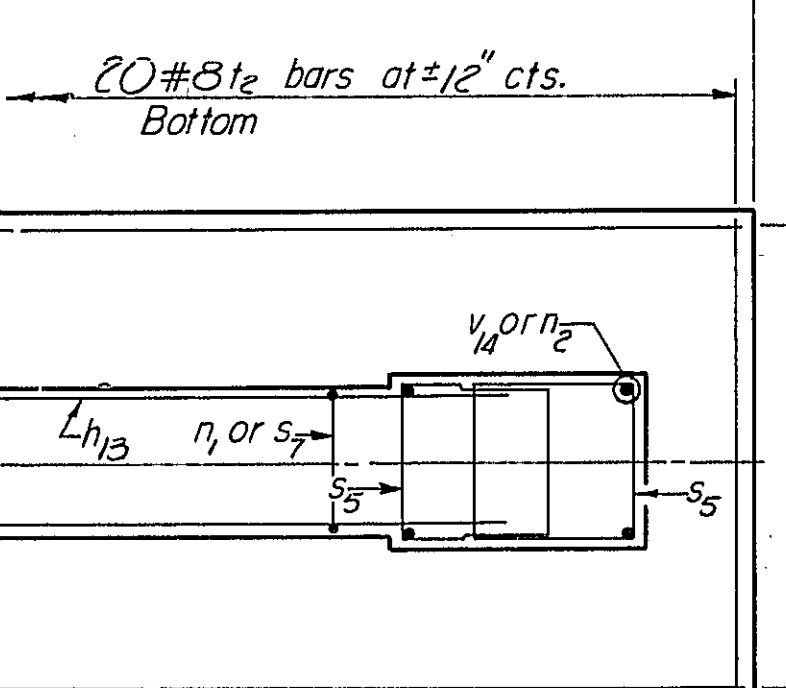
ELEVATION



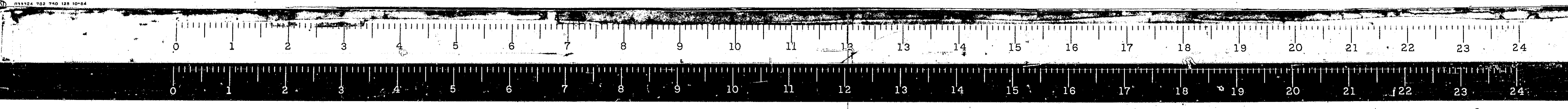
PILE LAYOUT & DIMENSIONS

FOOTING PLAN

REINFORCEMENT



REINFORCEMENT

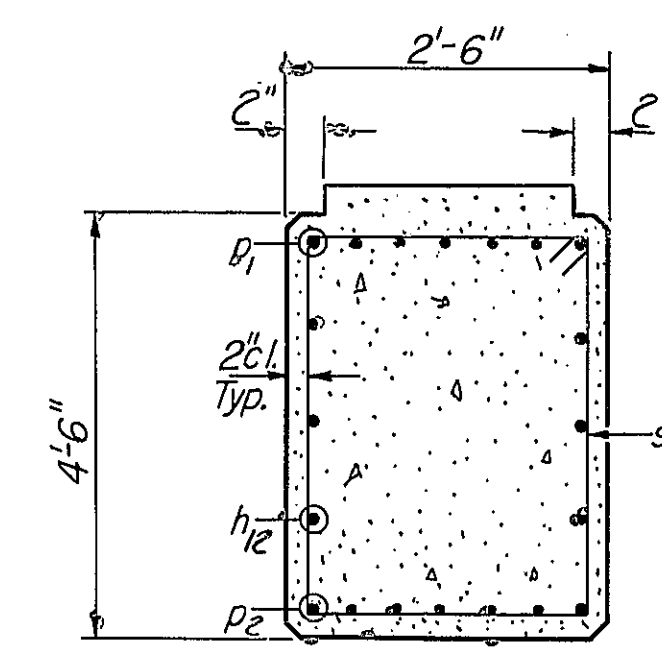
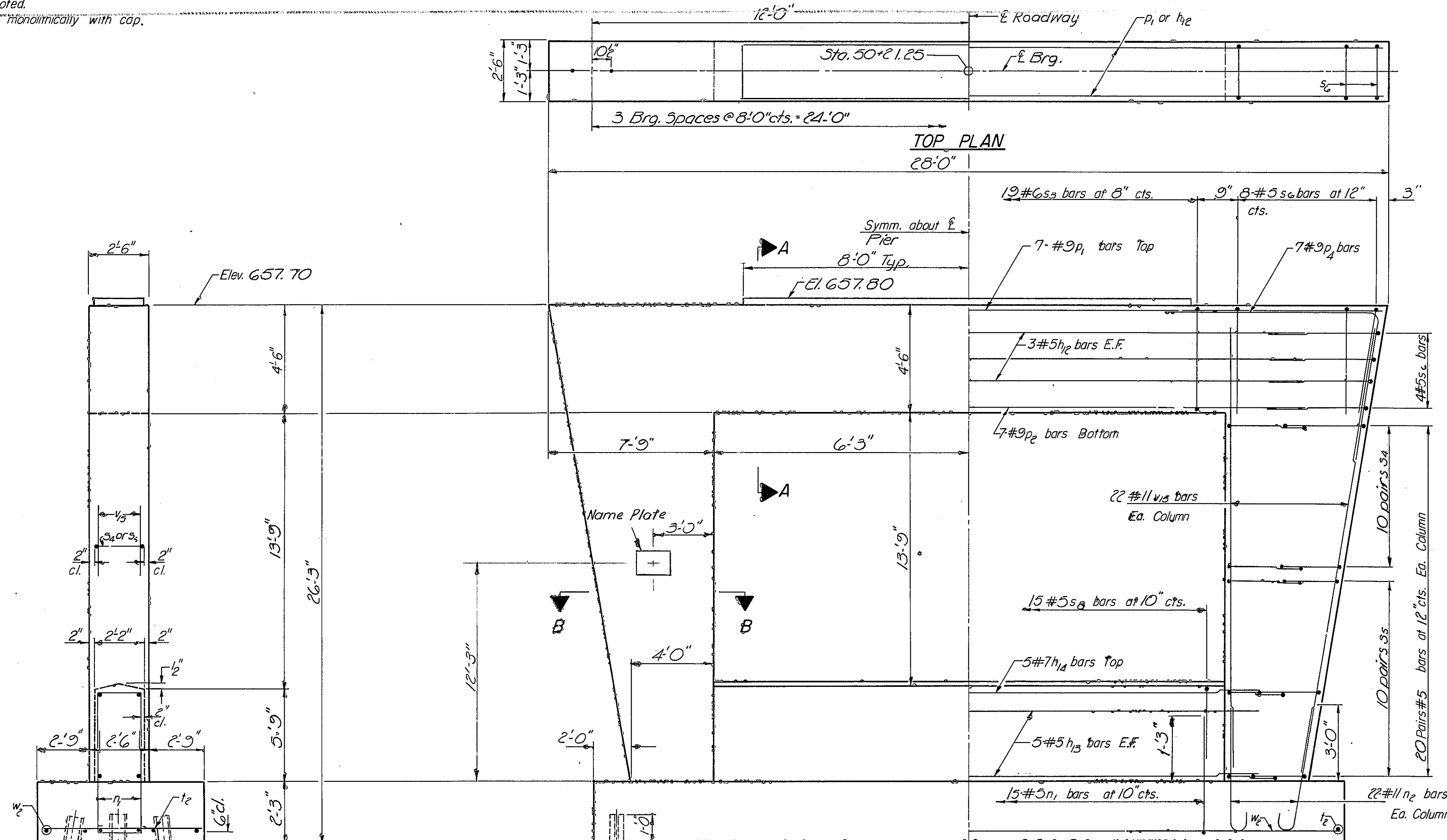


NOTES:

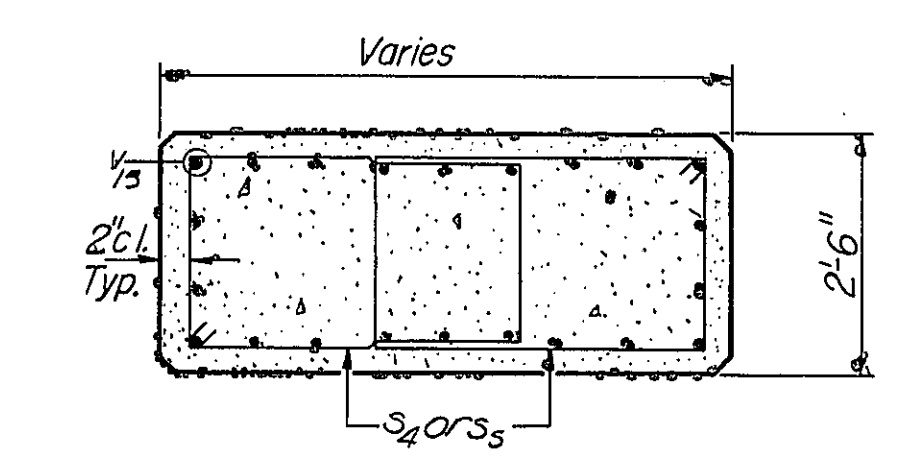
Space reinforcement in cap to miss anchor bolts.
All edges shall have standard 3/4 chamfers
except as noted.
"Four steps" Monolithically with cap.

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

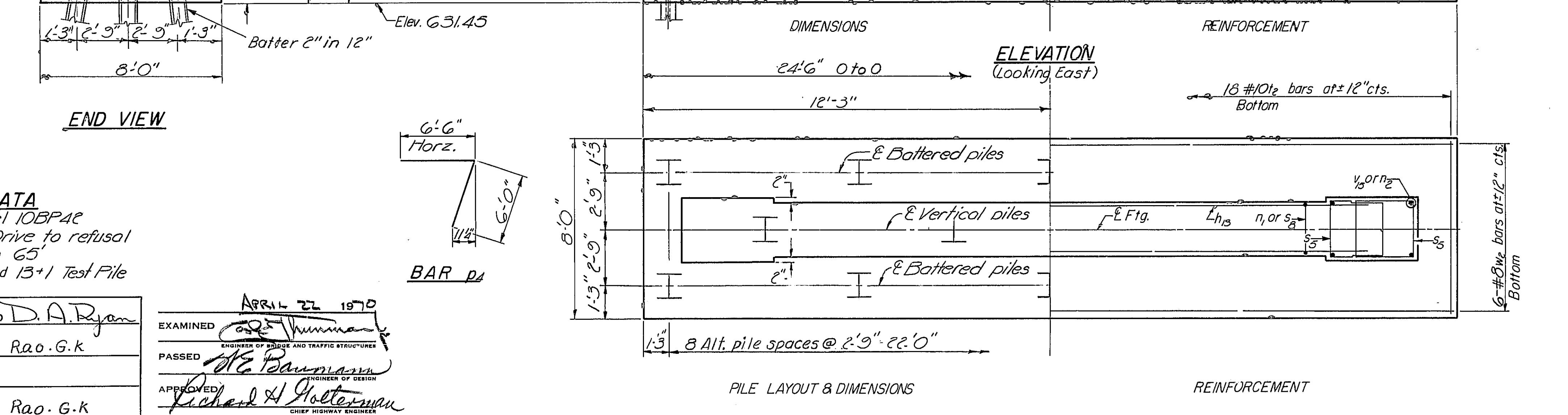
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 18
RT. 55	68-4HB	Mont.	44	29	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



SECTION A-A



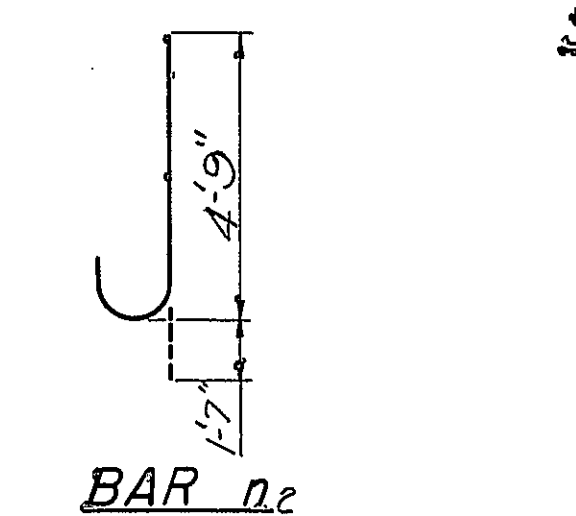
SECTION B-B



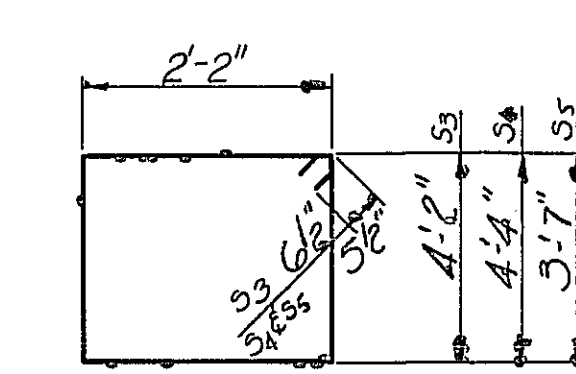
PILE LAYOUT & DIMENSIONS

REINFORCEMENT

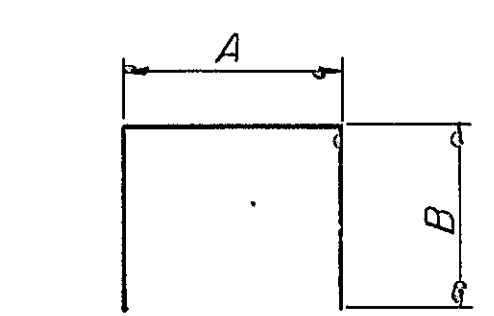
FOOTING PLAN



BAR n2



BARS s2 through s6



BARS n1, s6 & s2

A&B DIMENSIONS

Bar	A	B
n1	1'-10"	3'-1"
s6	2'-2"	4'-2"
s2	1'-10"	5'-5"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2	6	#5	22'-0"	—
h3	10	#5	16'-0"	—
h4	5	#7	17'-0"	—
n1	15	#5	8'-0"	U
n2	44	#11	6'-4"	U
p1	7	#9	27'-8"	—
p2	7	#9	22'-6"	—
p4	14	#9	12'-6"	7
s2	19	#6	13'-9"	□
s4	40	#5	13'-11"	□
s5	40	#5	12'-5"	□
s6	24	#5	10'-6"	□
s8	15	#5	12'-8"	□
y2	18	#10	7'-9"	—
y3	44	#11	22'-9"	—
w2	6	#8	24'-3"	—

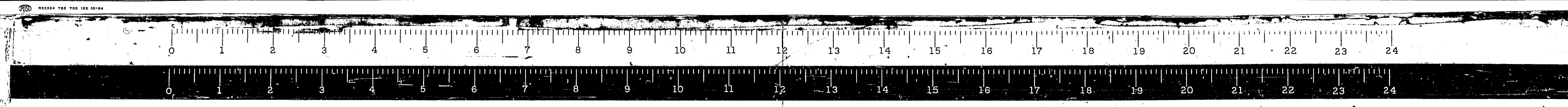
Class X Concrete Cu. Yds. 53.5
Reinforcement Bars Lbs. 12130
Steel Piles 10BP42 Lin. Ft. 845
Test Piles (Steel 10BP42) Each 1
Name plate Each 1

PIER #2
F.D.I. RT. 55 SEC. 68-4HB
MONTGOMERY COUNTY
STD. 1285+20.33

PILE DATA
Type Steel 10BP42
Capacity Drive to refusal
Est. Length 65'
No. Required 13+1 Test Pile

DESIGNED *D.A. Ryan*
CHECKED *Rao. G.K.*
DRAWN *J.D.*
CHECKED *Rao. G.K.*
APPROVED *Richard A. Grotzman*
EXAMINED *April 22 1970*
PASSED *Richard A. Grotzman*
CHIEF ENGINEER

P-11 11-18-69



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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	68-4HB	Mont.	44	30
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 19
20 SHEETS

Boring No.	Station	Offset	Elevation	N	Qc 1/4 ft.	w (%)	Surface Water El. at Completion After 24 Hours	Elevation	N	Qc 1/4 ft.	w (%)
1	18217	CL	620.3	0			626.3				
Ground Surface											
YELLOW & GRAY SILTY CLAY - MOIST (STIFF)			620.3	0			626.3				
20% STRAIN			10	1.6	28		625.3	23	5.8	13	
GRAY & BROWN SANDY CLAY LOAM (TILL) - MOIST (VERY STIFF)			625.3	-5	2.3	24					
20% STRAIN			10	2.3	24						
GRAY & BROWN CLAY LOAM (TILL) - MOIST (HARD)			625.3	-5							
10% STRAIN			10	N.R.							
GRAY & BROWN CLAY LOAM (TILL) - MOIST (HARD)			625.3	-5							
10% STRAIN			6	N.R.							
GRAY & BROWN CLAY LOAM (TILL) - MOIST (STIFF)			627.3		2.2	21					
10% STRAIN			10	2.2	21						
TAN & BROWN SANDY CLAY LOAM (TILL) - DRY (HARD)			627.3	-15	5.4	11					
15% STRAIN			73	5.4	11						
GRAY LOAM (TILL) SOME ORGANIC MATERIAL - MOIST (HARD)			622.3		2.5	17	600.3	-40			
20% STRAIN			28	2.5	17						
GRAY SILTY SAND (TILL)			620.3	-23	1.8	16					
20% STRAIN			49	1.8	16						
GRAY CLAY LOAM (TILL) - MOIST (VERY STIFF)			617.3								
BORING COMPLETED			594.3	-45							
Type failure			35	N.R.							

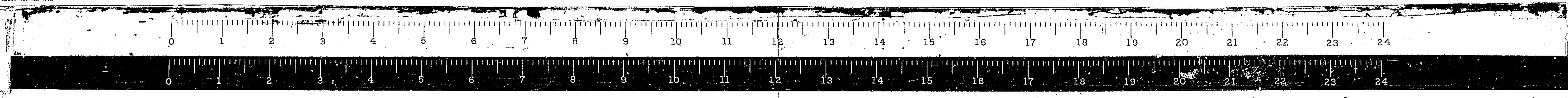
Boring No.	Station	Offset	Elevation	N	Qc 1/4 ft.	w (%)	Surface Water El. at Completion After 24 Hours	Elevation	N	Qc 1/4 ft.	w (%)
2	18218	3.0' RIGHT OF CL	637.9	0			636.4				
Ground Surface											
GRAY & BROWN MOTTLED (LAYERED) CLAY LOAM (TILL) - MOIST (VERY STIFF)			637.9	0			636.4				
20% STRAIN			14	3.4	14						
15% STRAIN			44	4.9	12						
GRAY & BROWN SANDY CLAY LOAM (TILL) - DRY (HARD)			632.9	-5			610.9				
20% STRAIN			70	7.7	13						
15% STRAIN			47	8.7	11						
GRAY SANDY CLAY LOAM (TILL) - DRY (HARD)			626.4		5.2	11	605.4				
10% STRAIN			55	5.2	11						
15% STRAIN			34	8.0	11						
BORING COMPLETED			522.0								
N.P. - NO FAILURE			37	6.5	12						
GRAY & BROWN MOTTLED SILTY LOAM (TILL) - MOIST (HARD)			620.9		2.5	16					
10% STRAIN			45	2.5	16						
15% STRAIN			34	1.2	12						
BORING COMPLETED			522.0								
N.P. - NO FAILURE			37	6.5	12						
SOME ORGANIC - MOIST (VERY STIFF)			620.9		2.5	15					
10% STRAIN			24	2.5	15						
BORING COMPLETED			570.8								
Type failure			48	N.R.							
GRAY CLAY SHALEY			568.8		4.3						
20% STRAIN			90	4.3							
SHALES			567.8								
20% STRAIN			200								
BORING COMPLETED			567.8								
Type failure			70								

Boring No.	Station	Offset	Elevation	N	Qc 1/4 ft.	w (%)	Surface Water El. at Completion After 24 Hours	Elevation	N	Qc 1/4 ft.	w (%)
3	18216	CL	637.7	0			636.2				
Ground Surface											
GRAY CLAY (TILL) - MOIST (HARD)			637.7	0			636.2				
20% STRAIN			43	6.0	12						
GRAY CLAY (TILL) - MOIST (HARD)			632.7	-25							
20% STRAIN			32	N.R.							
BROWN & GRAY SILTY CLAY - MED (MEDIUM)			632.7	-5							
20% STRAIN			33	4.7	13						
20% STRAIN			31	4.2	13						
20% STRAIN			30	3.8	19						
20% STRAIN			19	2.5	18						
20% STRAIN			21	2.6	18						
20% STRAIN			20	2.1	20						
20% STRAIN			18	1.8	20						
20% STRAIN			22	N.R.							
20% STRAIN			32	3.8	16						
20% STRAIN			25	2.3	20						
BORING COMPLETED			586.7								

N-Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 # hammer falling 30".
Qu-Unconfined Compressive Strength-1/2t
w-Water Content-percentage of oven dry weight-%.
Type failure
B-Bulge Failure
S-Shear Failure
E-Estimated Value
P-Penetrometer

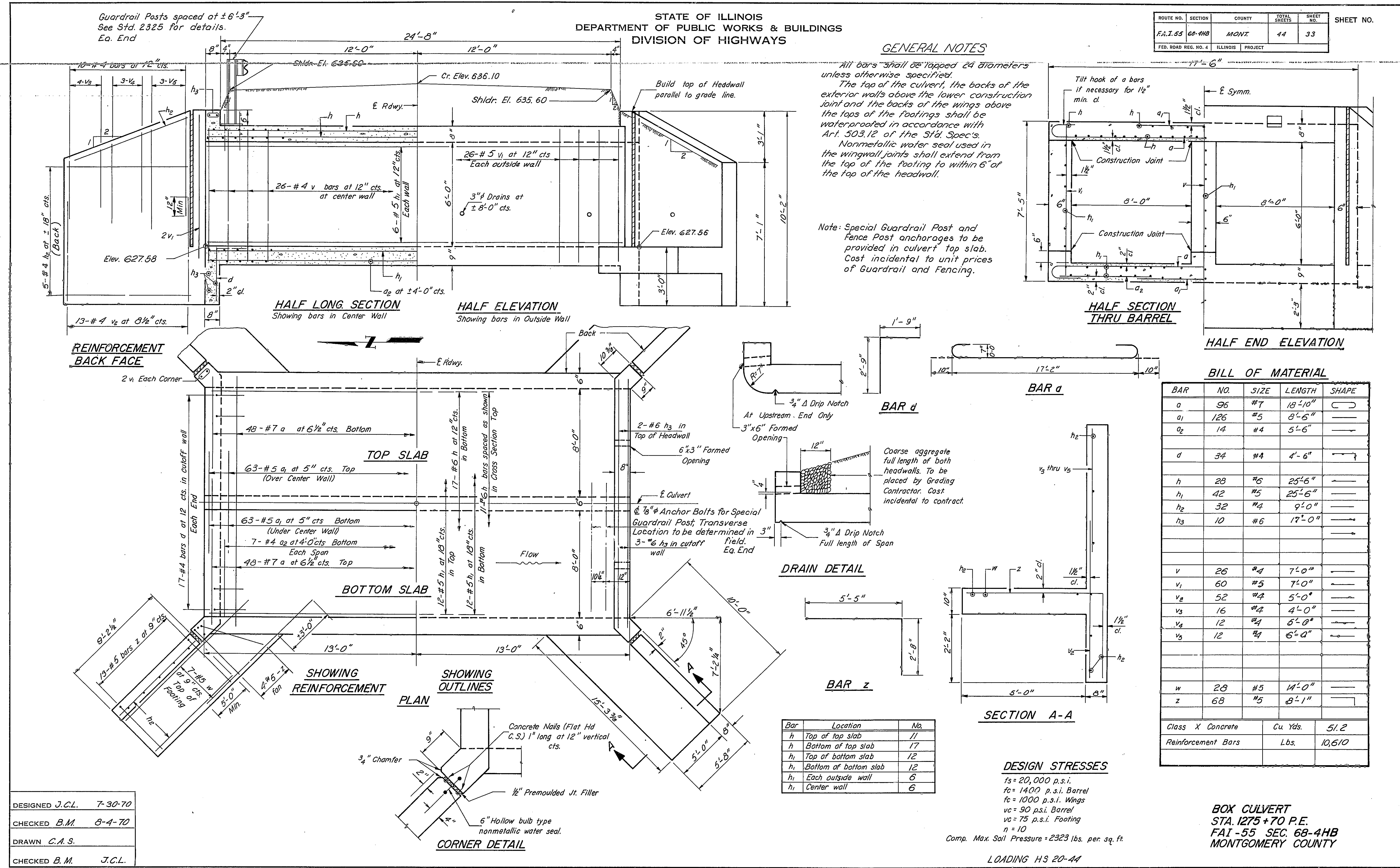
DESIGNED D.D. Ryan
CHECKED Rao. G.K.
DRAWN J.D.
CHECKED Rao. G.K.
APRIL 22 1970
EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]
CHIEF HIGHWAY ENGINEER

BORING DATA
F.D.I. RT. 155 SEC. 68-4HB
MONTGOMERY COUNTY
STD. 1285+20.33



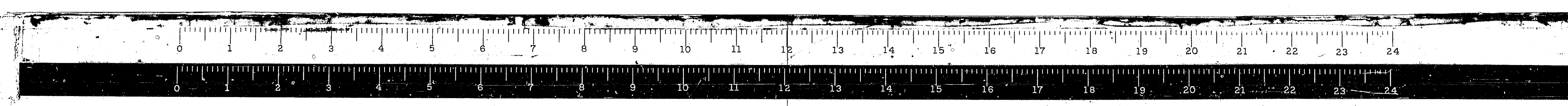
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.I. 55	68-4HB	MONTG.	44	33	
FED. ROAD REG. NO. 4	ILLINOIS	PROJECT			

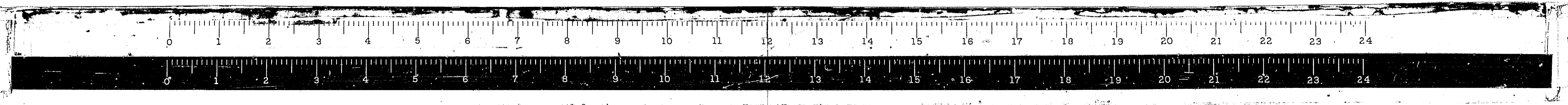
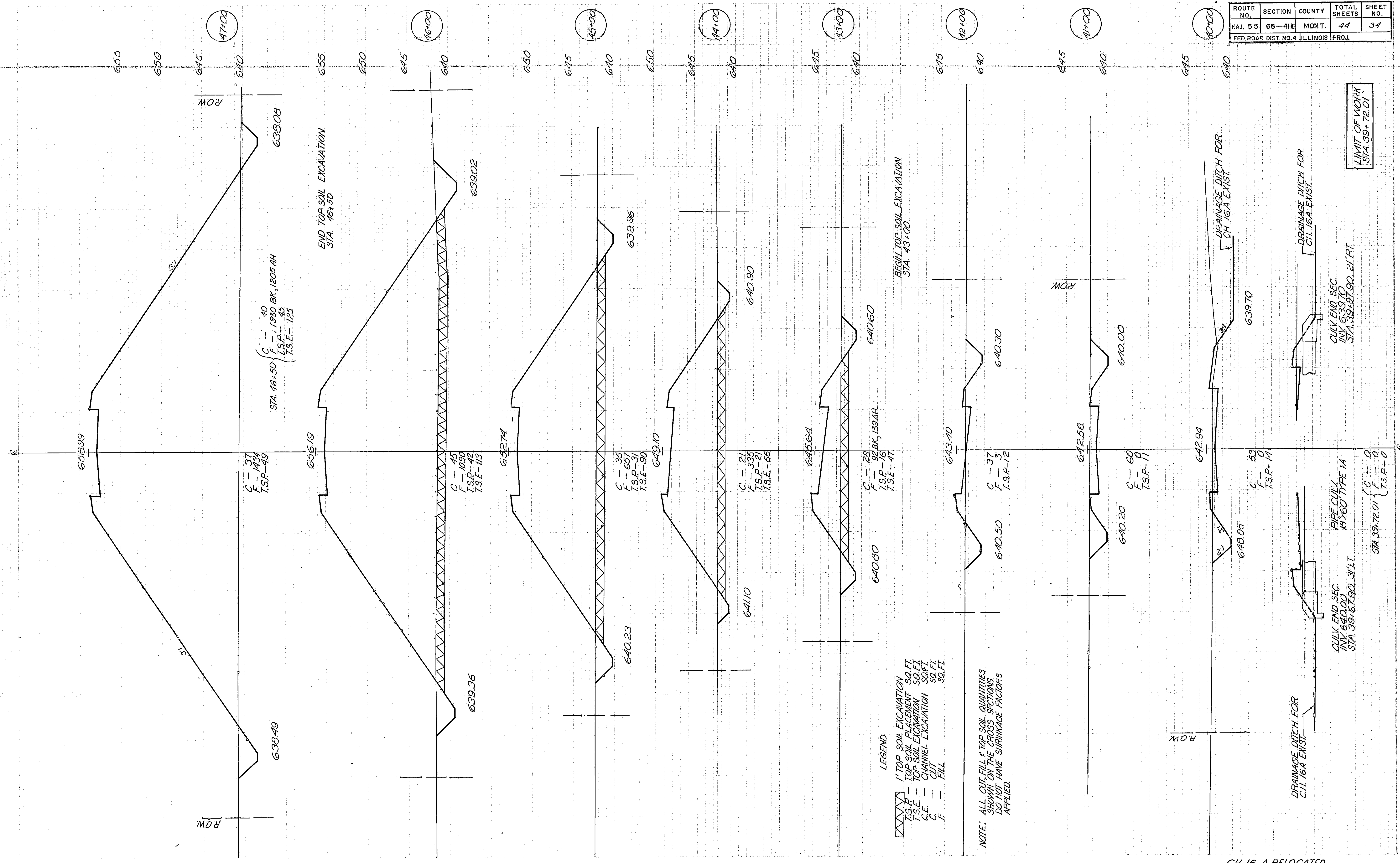


DESIGNED J.C.L. 7-30-70
 CHECKED B.M. 8-4-70
 DRAWN C.A.S.
 CHECKED B.M. J.C.L.

Rev. culvert from double 12'x6' to double 8'x6'. Rev. C.I. X Conc. from 75.3 Cu. Yds. to 51.2 Cu. Yds. Reinf. from 12,990# to 10,610# 3-5-71 L.W.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	6B-4HE	MONT.	44	34
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				



LIMIT OF WORK
STA. 59+78.01

PIPE CULVERT
18" TYPE M

PIPE CULVERT
18" TYPE M

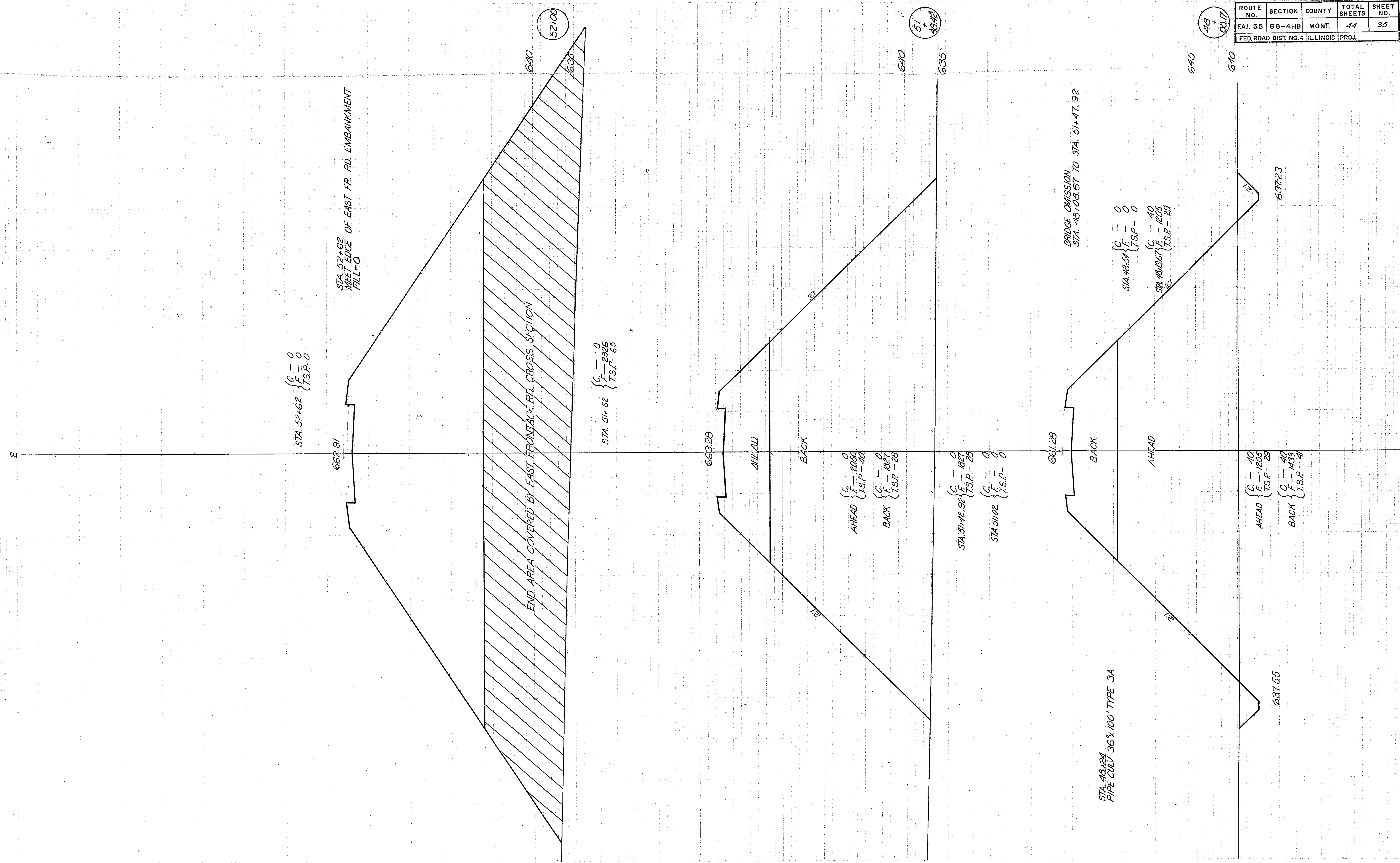
PIPE CULVERT
18" TYPE M

PIPE CULVERT
18" TYPE M

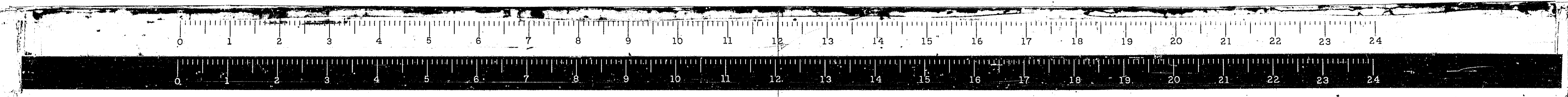
PIPE CULVERT
18" TYPE M

PIPE CULVERT
18" TYPE M

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EAL 55	68-4HB	MONT.	44	35
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				



CH. 16-A RELOCATED



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 55	68-4HB	MONT.	44	36
FED. ROAD DIST. NO. 4 ILLINOIS			PROJ.	

DATE	BY	REVISION

DATE	BY	REVISION

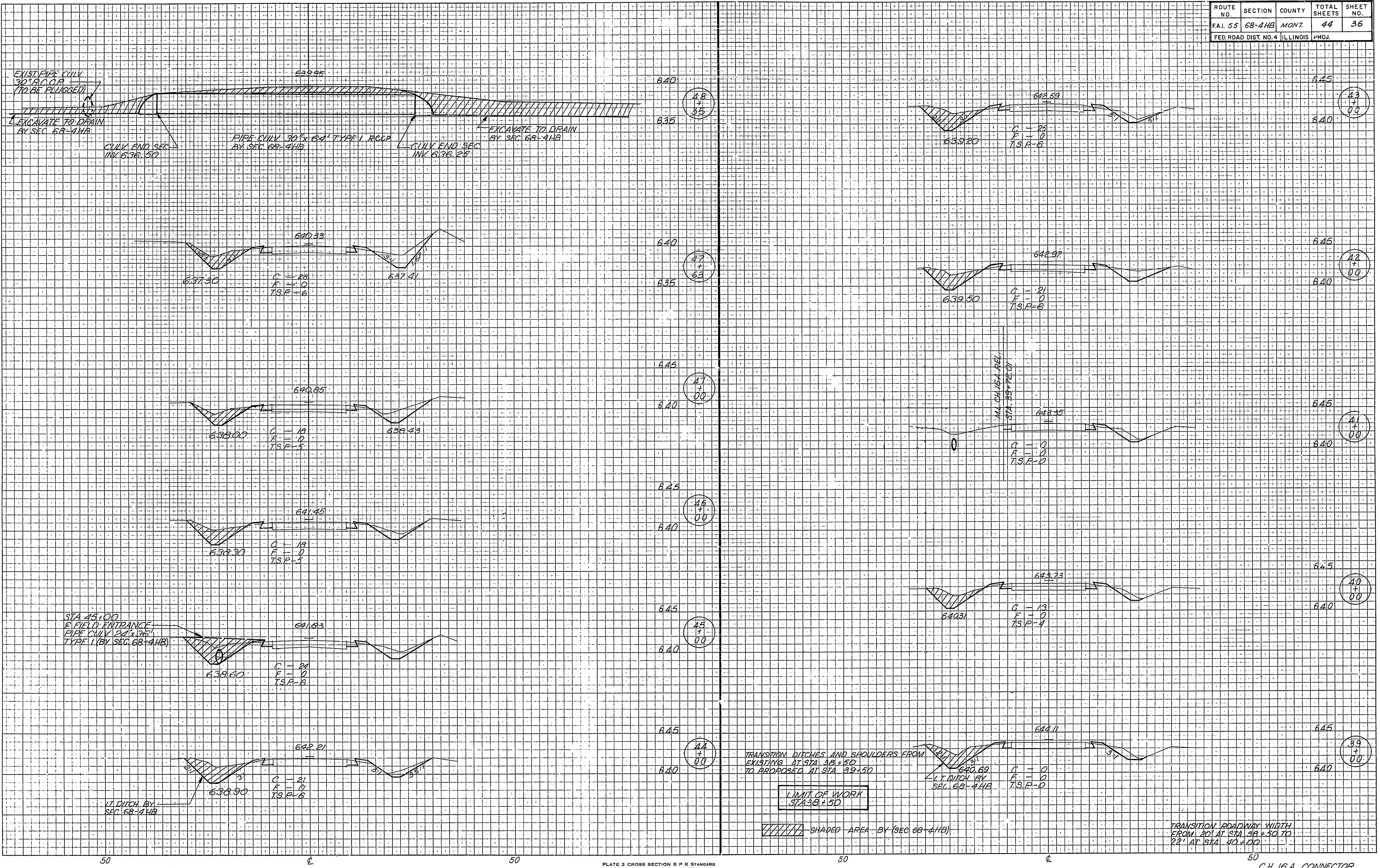
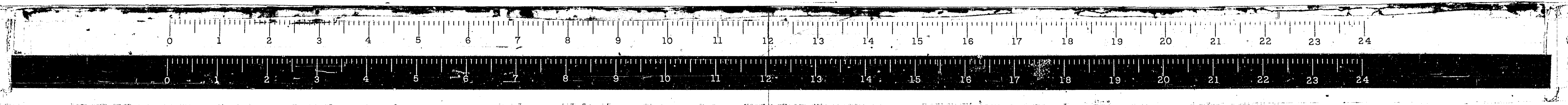


PLATE 3 CROSS SECTION B P R STANDARD
ENGINE DESIGN CO. CHICAGO, NEW YORK

C.H. 16A CONNECTOR



DATE	
BY	
ORIGINAL SURVEY	
DATE	
BY	
FINAL SURVEY	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
NO.	
DESCRIPTION	

DATE	
BY	
ORIGINAL SURVEY	
DATE	
BY	
FINAL SURVEY	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
NO.	
DESCRIPTION	

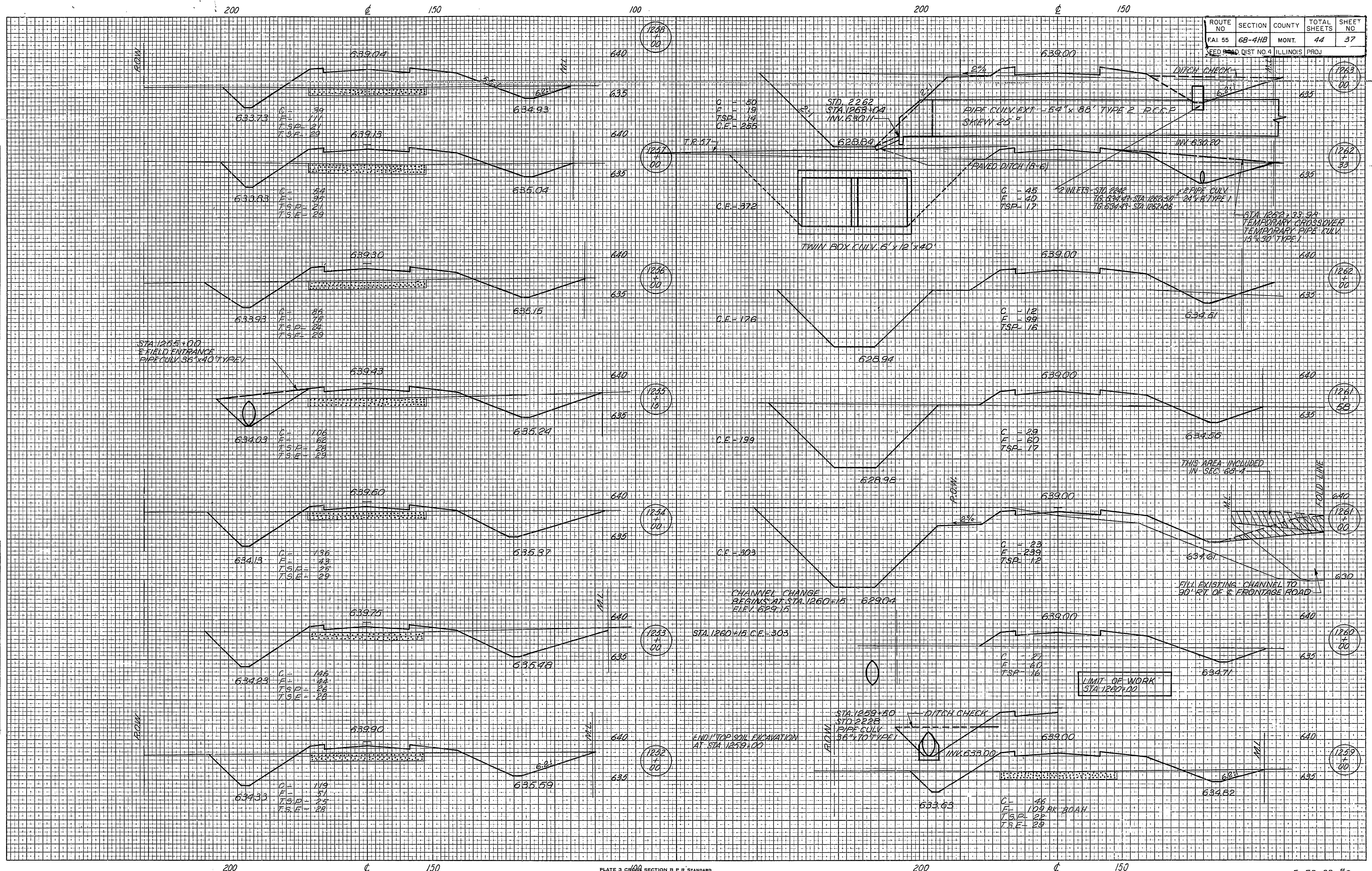
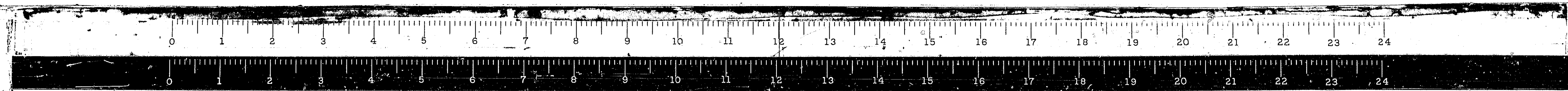


PLATE 3 CH 660 SECTION B P R STANDARD
ENGINE DESIGN CO., CHICAGO - NEW YORK

E. FR. RD. #3



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68-41B	68-41B	MONT.	44	39

5th ROAD DIST NO 4 ILLINOIS PROJ.

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
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DATE	
BY	
REVISIONS	
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REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

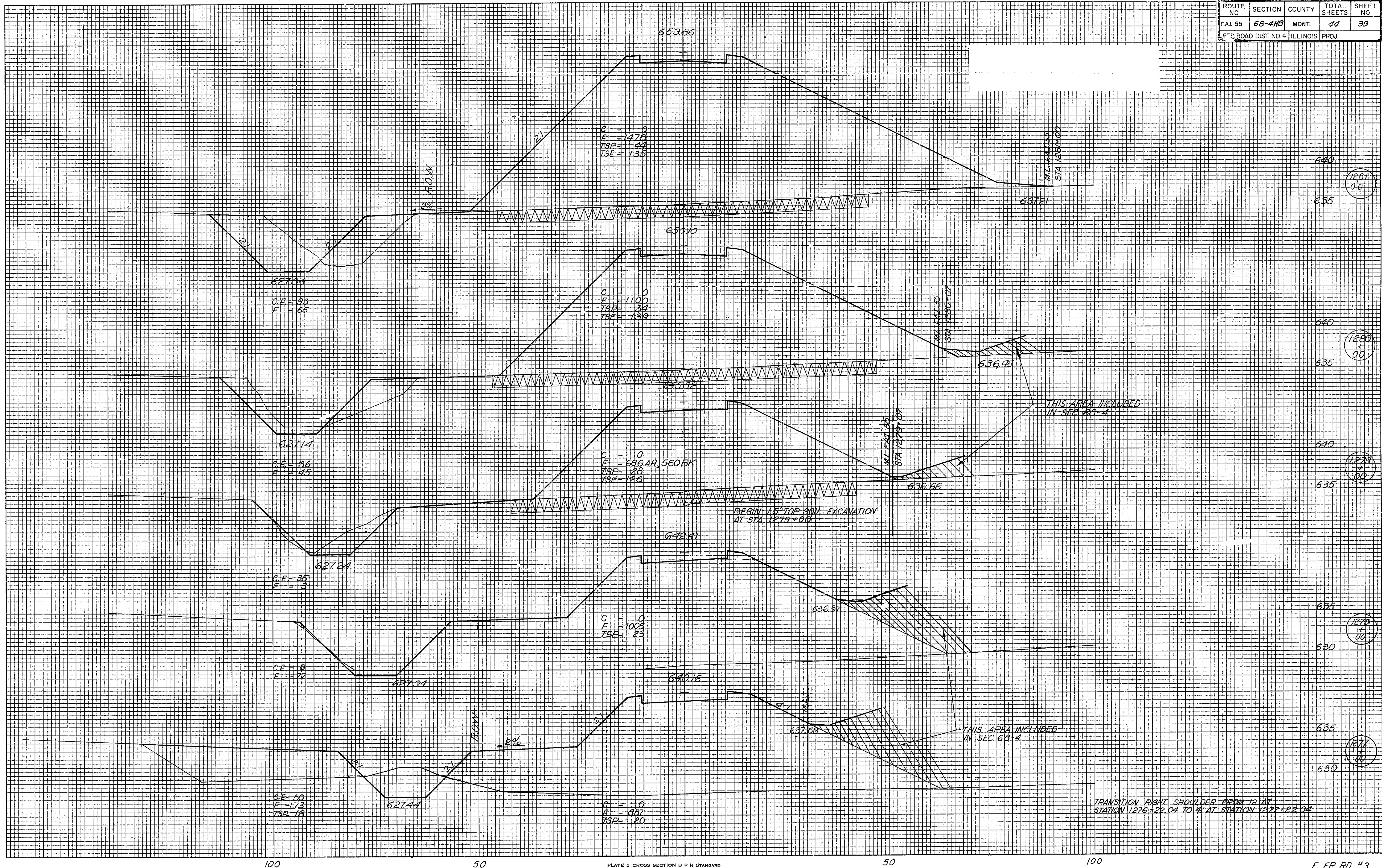


PLATE 3 CROSS SECTION B P R STANDARD
EUGENE BRESLER CO., CHICAGO - NEW YORK

100 50 E 50 100

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 55	60-4HE	MONT.	44	40
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				

DATE _____ BY _____

FINAL SURVEY SWAYED _____
 SURVEY BOOK NO. _____
 NOTE BOOK NO. _____
 AREA CHECKED _____

DATE _____ BY _____

ORIGINAL SURVEY SWAYED _____
 SURVEY BOOK NO. _____
 NOTE BOOK NO. _____
 AREA CHECKED _____

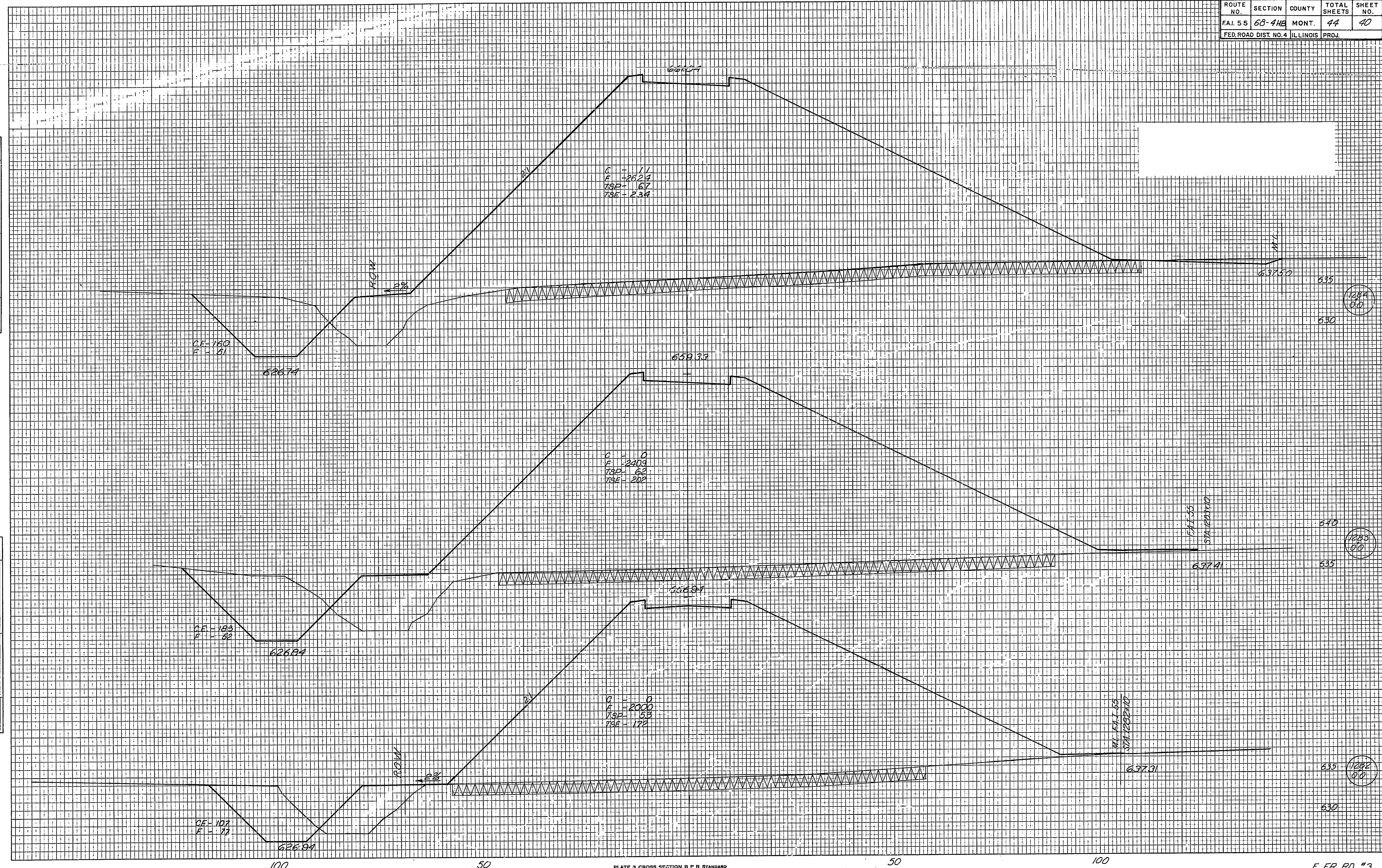
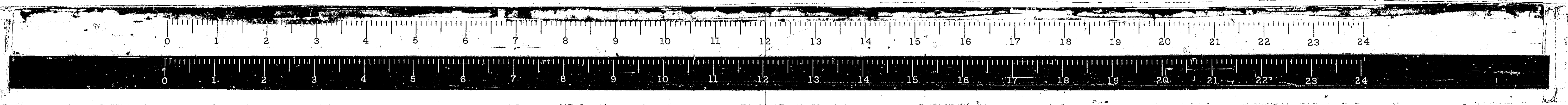


PLATE 3 CROSS SECTION B P R STANDARD
 EDWIN DIETRICH CO., CHICAGO - NEW YORK

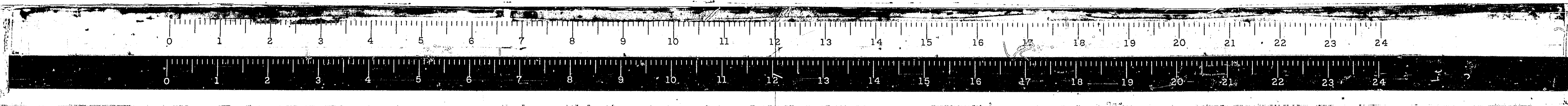
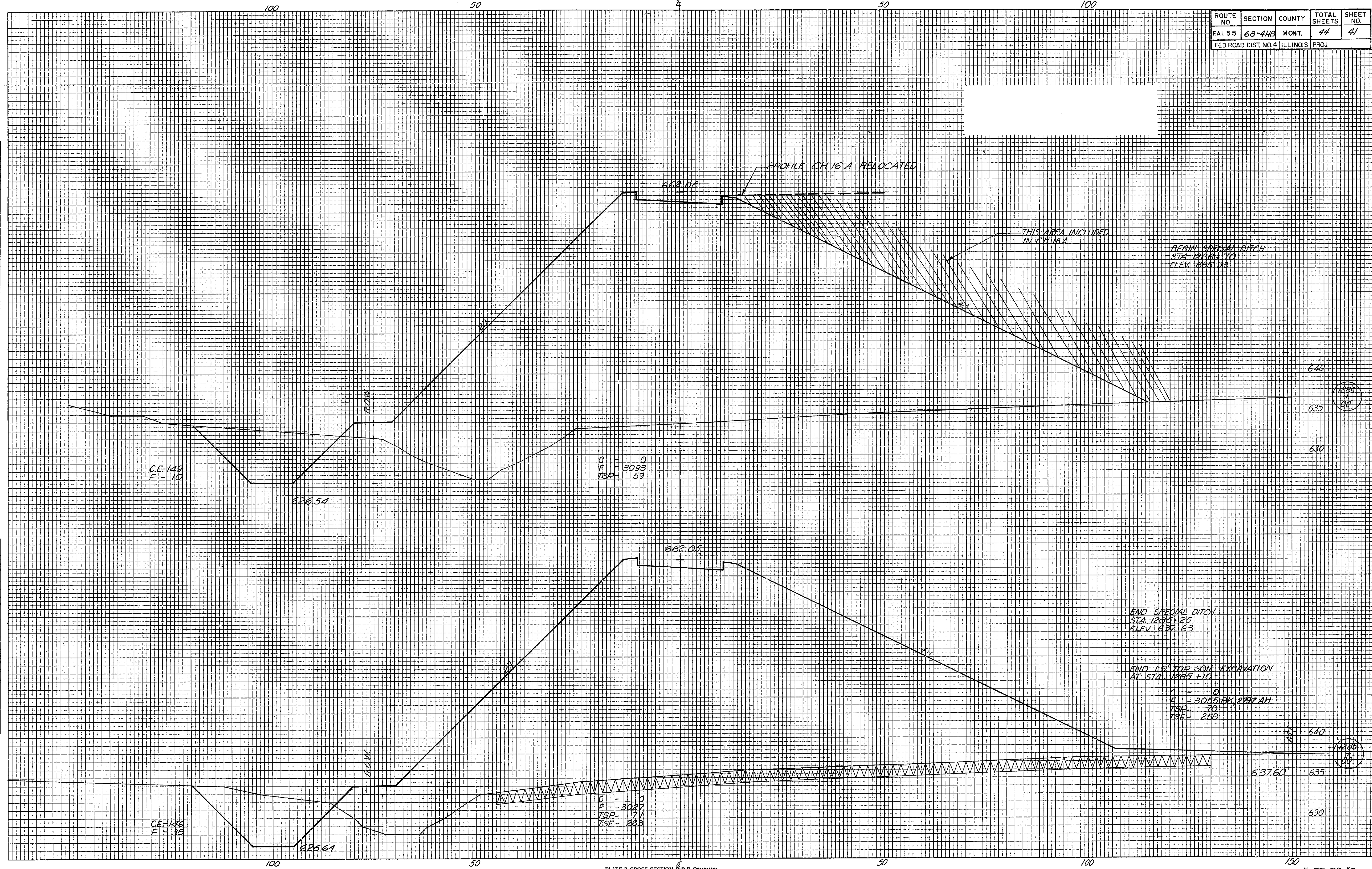
E. FR. RD. #3



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68-55	68-41B	MONT.	44	41
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				

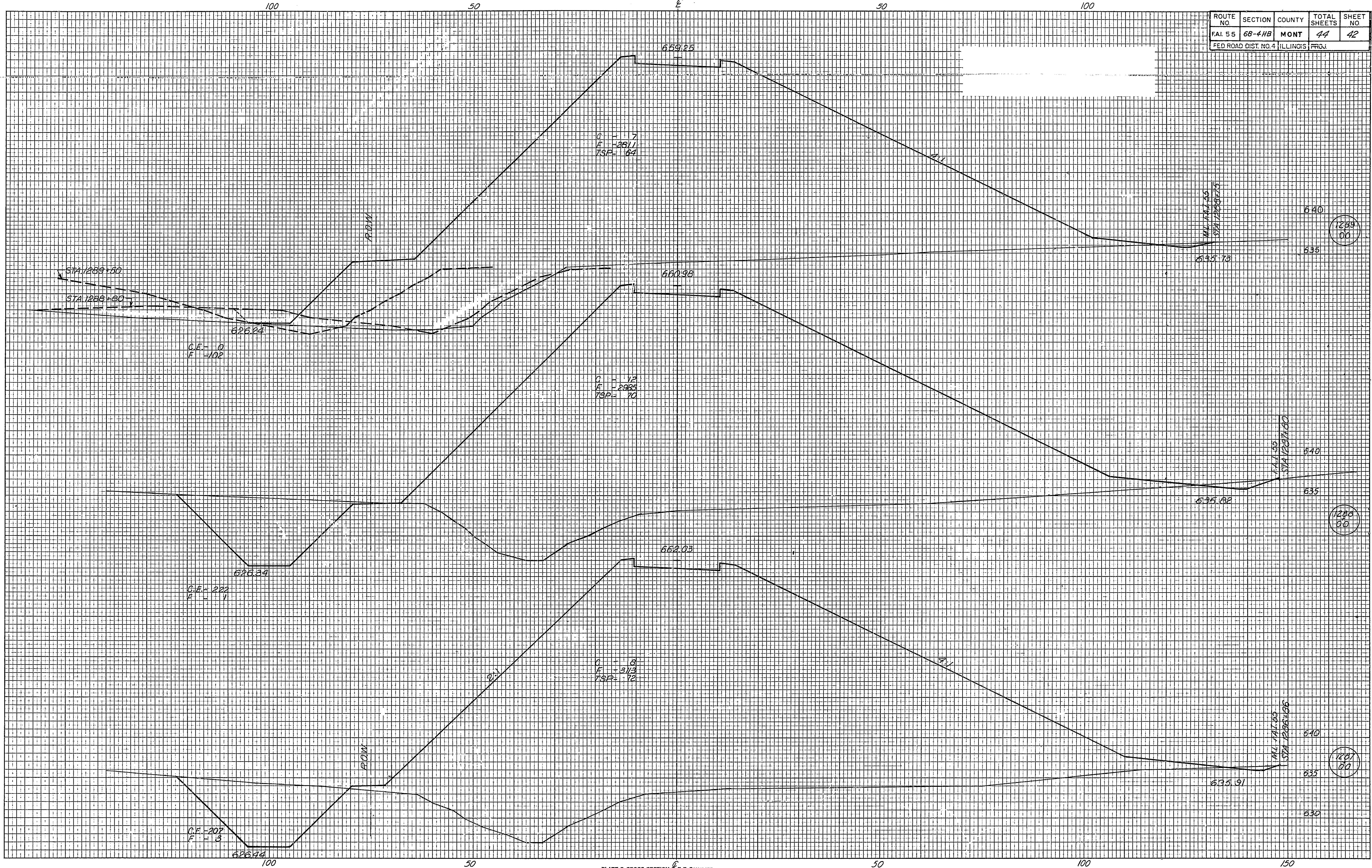
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 BY: _____
 SURVEYED: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREA CHECKED: _____
 NO. _____

ORIGINAL SURVEY DATE: _____
 BY: _____
 SURVEYED: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREA CHECKED: _____
 NO. _____



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 55	68-4HB	MONT	44	42

FED ROAD DIST. NO. 4 HILLINGS PROJ.



DATE	BY

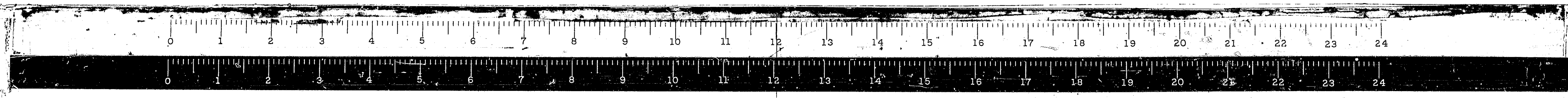
FINAL SURVEY PLOTTED BY DATE CHECKED BY DATE

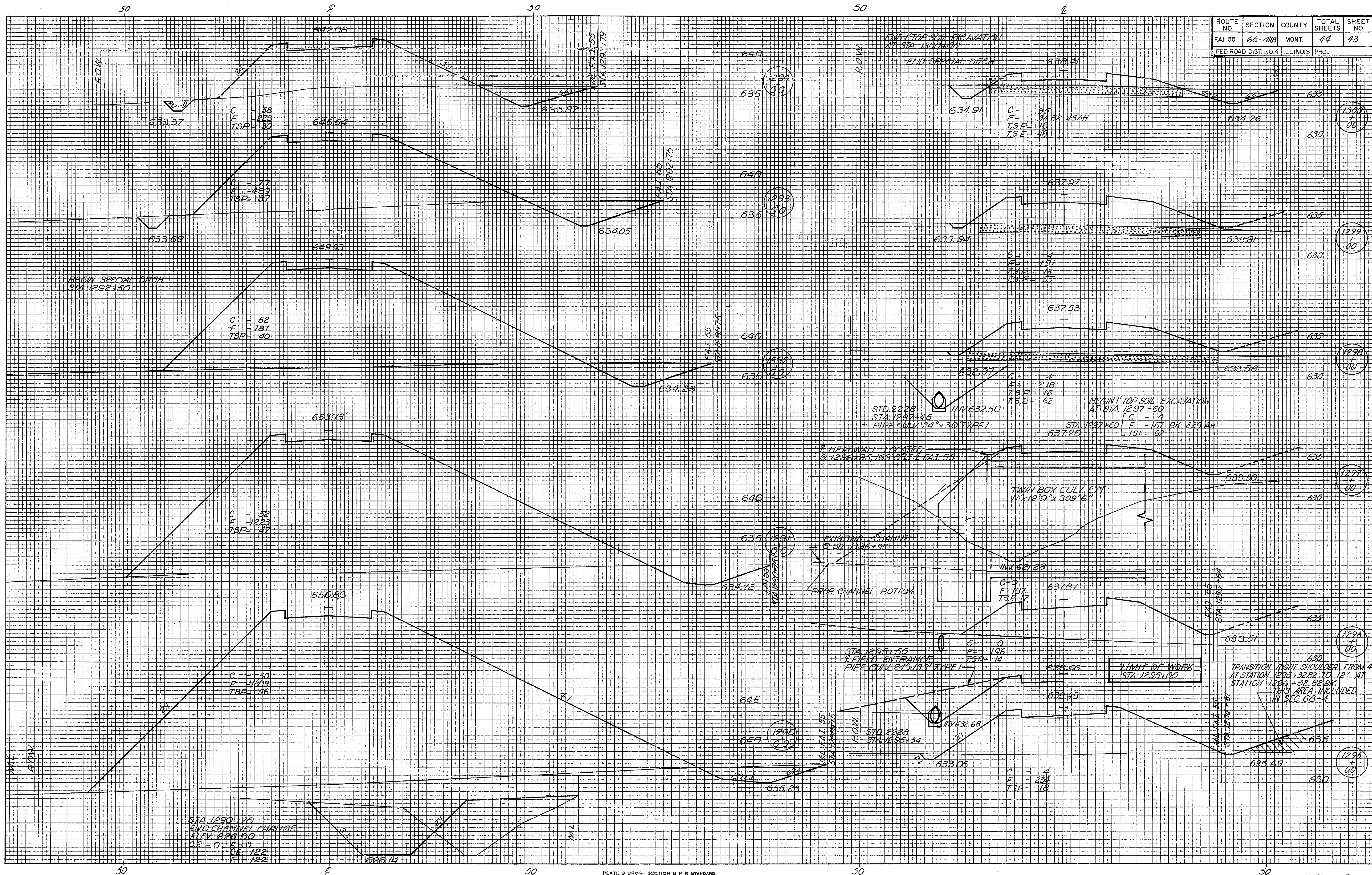
DATE	BY

ORIGINAL SURVEY PLOTTED BY DATE CHECKED BY DATE

PLATE 3 CROSS SECTION 6" R STANDARD
ENGINE DETAIL CO., CHICAGO - NEW YORK

E. FR. RD. "3"





ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 55	68-11B	MONT.	44	43

FED. ROAD DIST. NO. 4 ILLINOIS PROJ.

DATE	BY

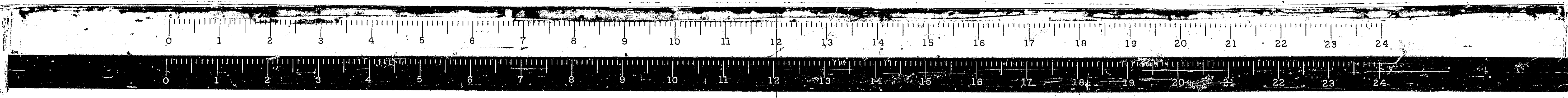
FINAL SURVEY
 SURVEYED BY: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREA CHECKED: _____

DATE	BY

ORIGINAL SURVEY
 SURVEYED BY: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREA CHECKED: _____

PLATE 3 CROSS SECTION B P R STANDARD
 BOARD "H" 1/2" X 30" CHICAGO - NEW YORK

E. FR. RD. #3



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	68-488	MONT.	11	11
FED. ROAD DIST. NO. 4 ILLINOIS PROJ.				

THIS SHEET FOR INFORMATION ONLY

FINAL SURVEY
 NO. _____
 DATE _____
 BY _____
 CHECKED BY _____
 REVISIONS:
 NO. _____ DATE _____
 BY _____

ORIGINAL SURVEY
 NO. _____
 DATE _____
 BY _____
 CHECKED BY _____
 REVISIONS:
 NO. _____ DATE _____
 BY _____

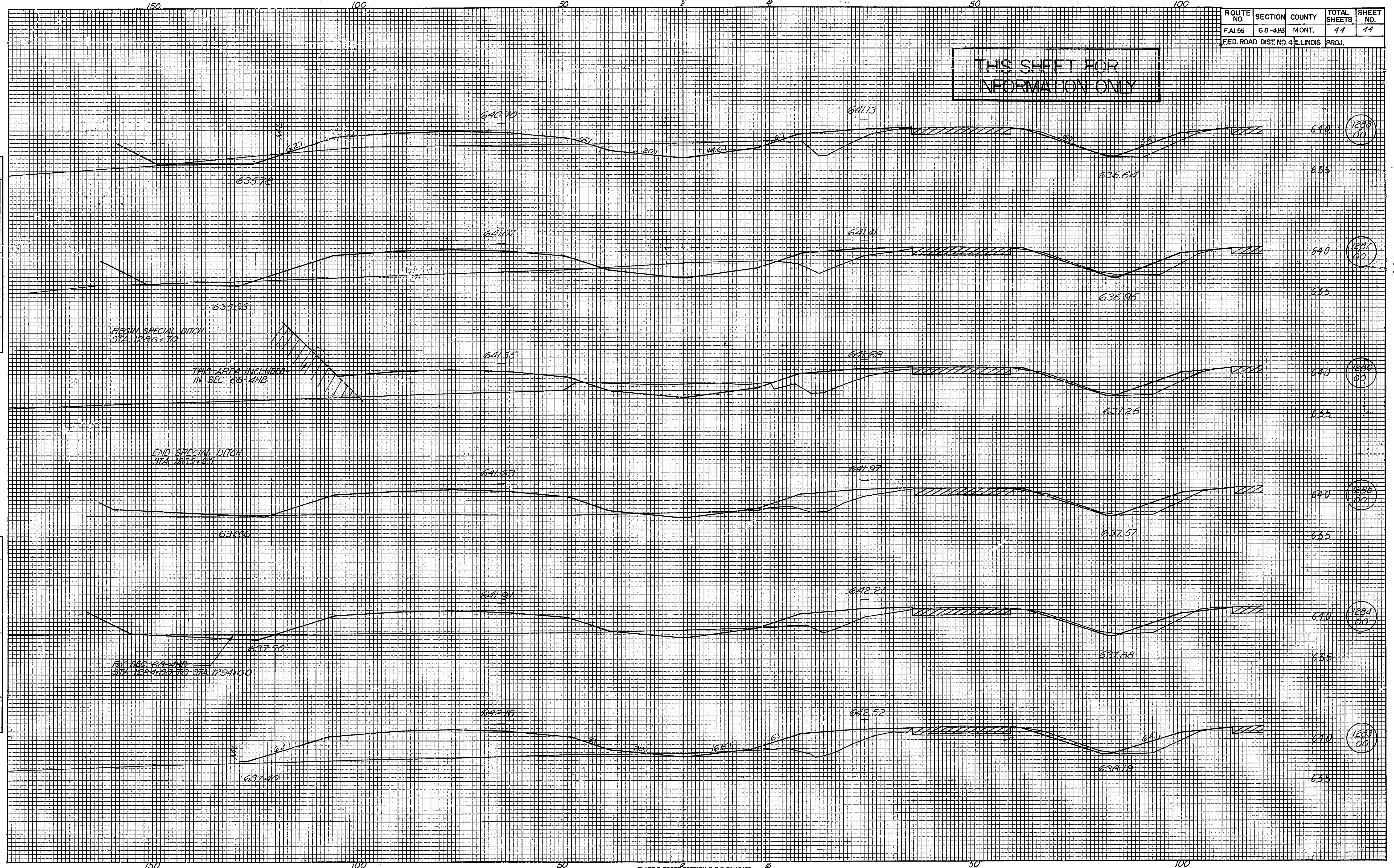


PLATE 3 CROSS SECTION B P R STANDARD
 EUGENE BRETHER CO., CHICAGO - NEW YORK

F.A.I. 55

