

03-08-2019 LETTING ITEM 049

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(103-1HB-2)BP	LEE	13	1
		ILLINOIS	CONTRACT NO. 64N12	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

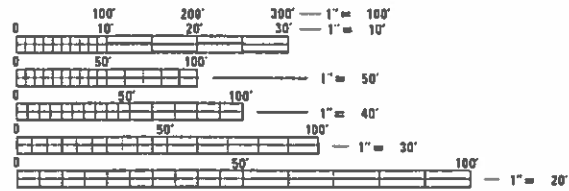
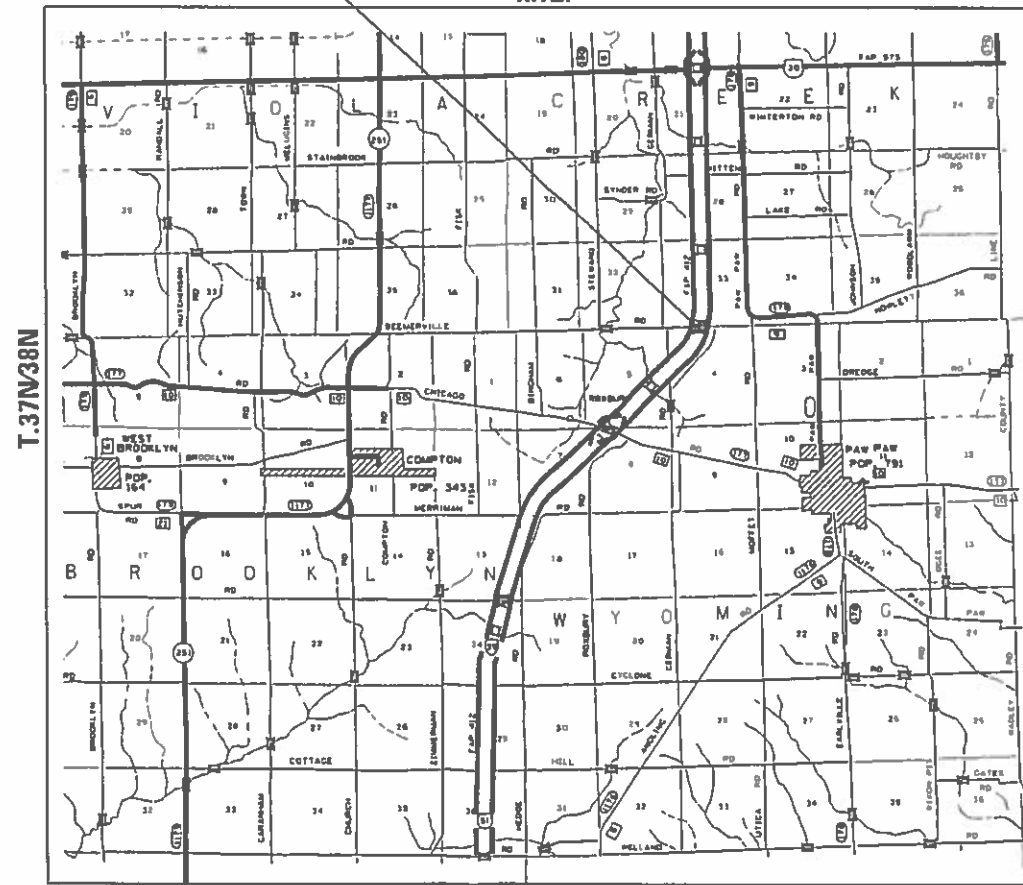
FAI ROUTE 39 (I-39)
SECTION: (103-1HB-2)BP
PROJECT: NHPP-DNIX(091)
TYPE of IMPROVEMENT: BRIDGE PAINTING
LEE COUNTY

D-92-057-18



LEE COUNTY
WYOMING TOWNSHIP — SECTION 4
WILLOW CREEK TOWNSHIP — SECTION 33

SN 052-0054
C-92-085-18
R.1E.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: DAVID DOSS (815) 284-5416
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64N12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 11-30-18
Maahel
REGIONAL ENGINEER

Feb 19 2019
E.A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 19 2019
Paul J. Chaf
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS / STATE STANDARDS / GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 EXISTING ROADWAY TYPICAL
- 5 STAGING TYPICALS
- 6 TRAFFIC CONTROL & PROTECTION, STANDARD 701400 (SPECIAL)
- 7 TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL) SOUTHBOUND
- 8 TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL) NORTHBOUND
- 9-13 EXISTING PLAN SHEETS (FOR INFORMATION ONLY)

STATE STANDARDS

- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

GENERAL NOTES

NO AIR MONITORS ARE REQUIRED FOR THIS LOCATION.

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2A SHALL BE USED. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR CLEANING AND PAINTING STEEL BRIDGE NO. 1.

FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF CLEANING AND PAINTING STEEL BRIDGE NO. 1.

MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF THE CLEANING AND PAINTING STEEL BRIDGE NO. 1.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

TEMPORARY IMPACT ATTENUATORS WILL BE MEASURED AS EACH FOR EACH ATTENUATOR SUPPLIED ON THE JOB AS SPECIFIED IN THE PLANS, AND SHALL INCLUDE THE COST OF RENTING/OWNING THE ATTENUATOR FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, TEMPORARY OF THE TYPE SPECIFIED.

RELOCATE TEMPORARY IMPACT ATTENUATOR WILL BE PAID FOR AS EACH AND WILL BE PAID FOR EACH TIME THE ATTENUATOR IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS. TEMPORARY CONCRETE BARRIER WILL BE MEASURED IN FEET ALONG THE CENTERLINE OF THE BARRIER AND SHALL INCLUDE THE COST OF RENTING/OWNING THE BARRIER FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY IN ACCORDANCE WITH SECTION 704 OF THE STANDARD AND SPECIFICATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TEMPORARY CONCRETE BARRIER.

RELOCATE TEMPORARY CONCRETE BARRIER WILL BE PAID FOR IN FEET ALONG THE CENTERLINE OF THE BARRIER, AND WILL BE PAID FOR EACH TIME THE BARRIER IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

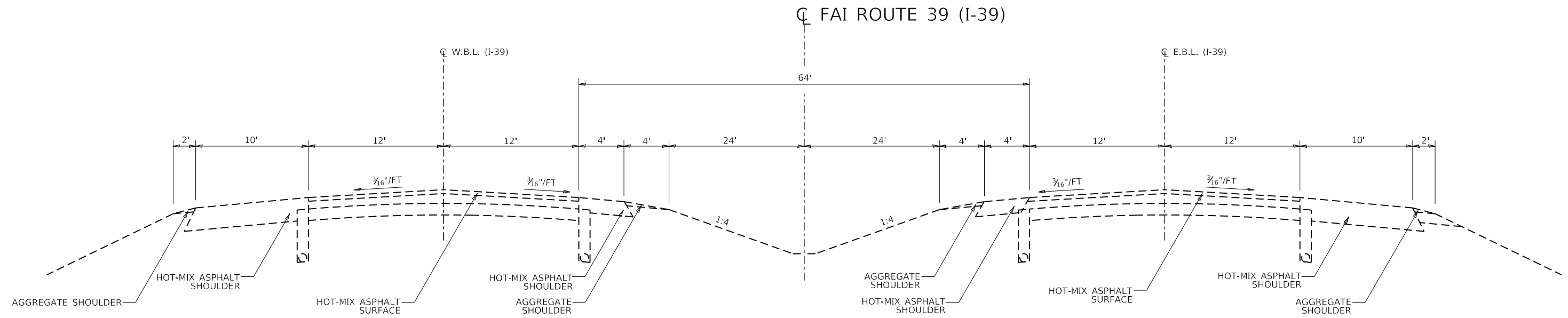
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

THE SSPC QP1 & QP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

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DRAWN - _____	REVISED - _____	39			(103-1HB-2)BP	LEE	13	2	
PLOT SCALE = 40.0000 ' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64N12				
PLOT DATE = Nov-28-2018 02:37:50 PM	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT				
				SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____			

EXISTING TYPICAL



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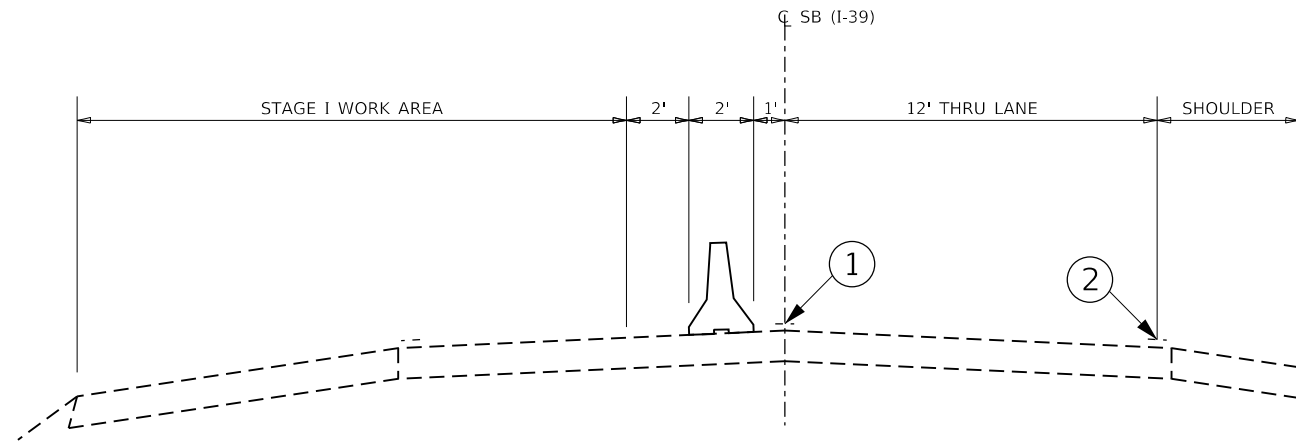
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL
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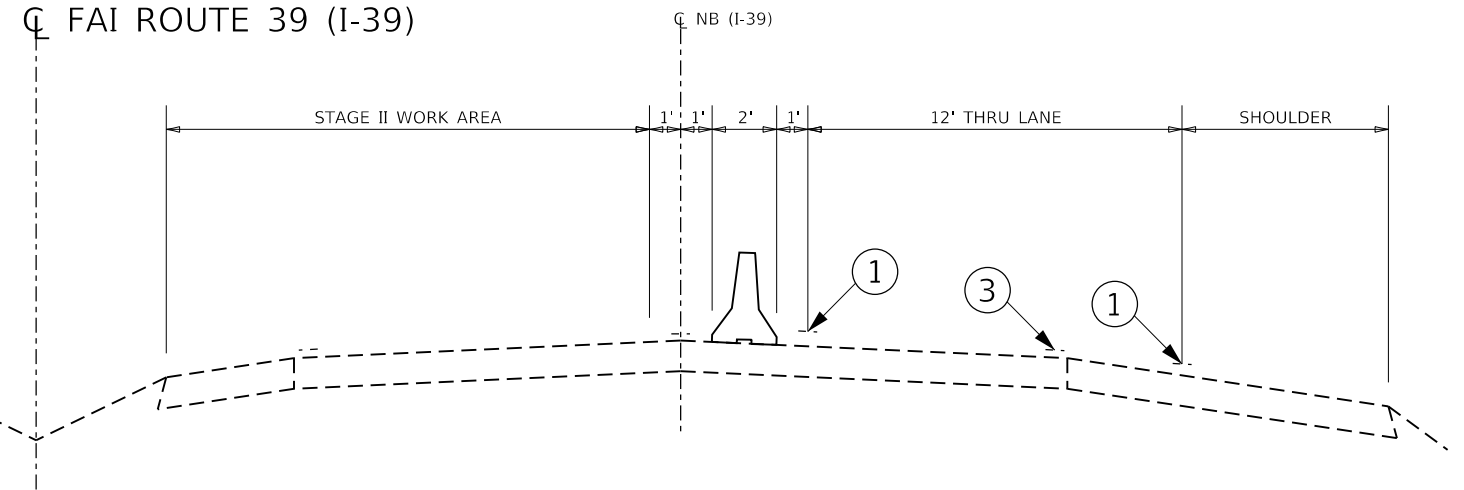
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CONTRACT NO. 64N12				
ILLINOIS FED. AID PROJECT				

STAGING TYPICALS

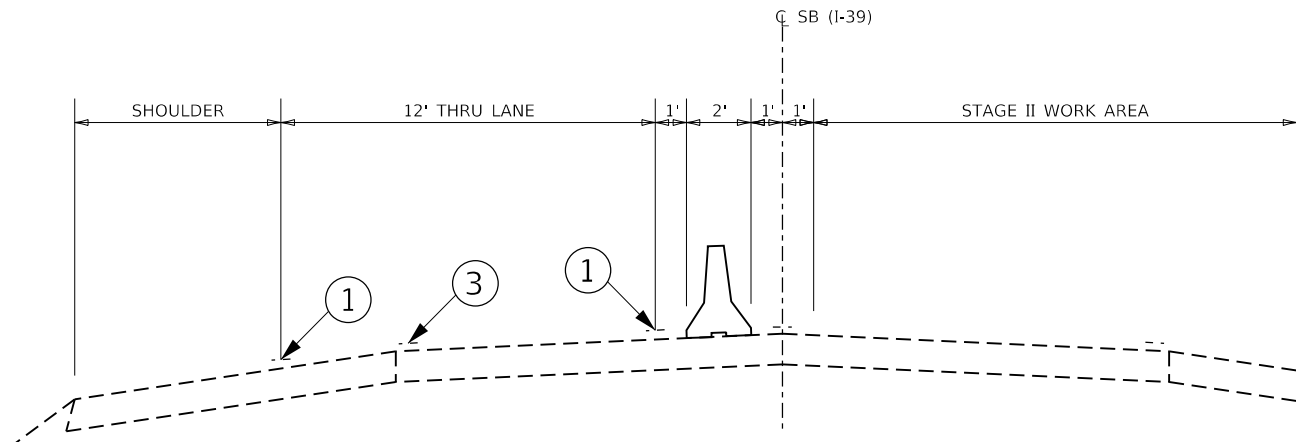
STAGE I



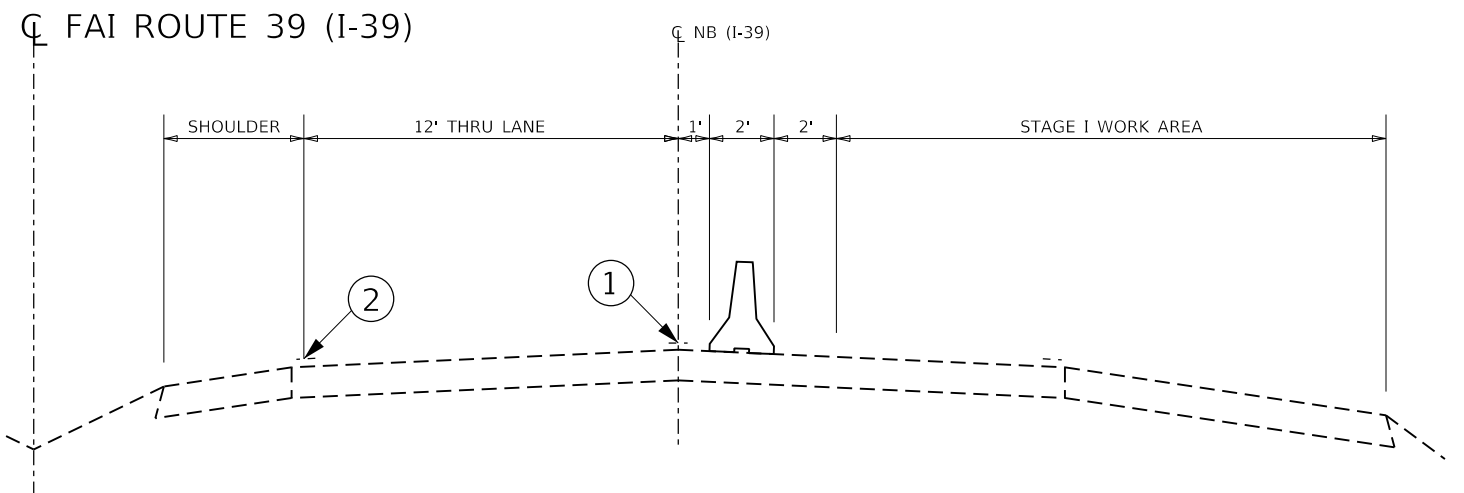
STAGE II



STAGE II



STAGE I



- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② EXISTING PAVEMENT MARKING LINE
- ③ BLACKOUT TAPE TO COVER CONFLICTING EXISTING PAVEMENT MARKING LINES

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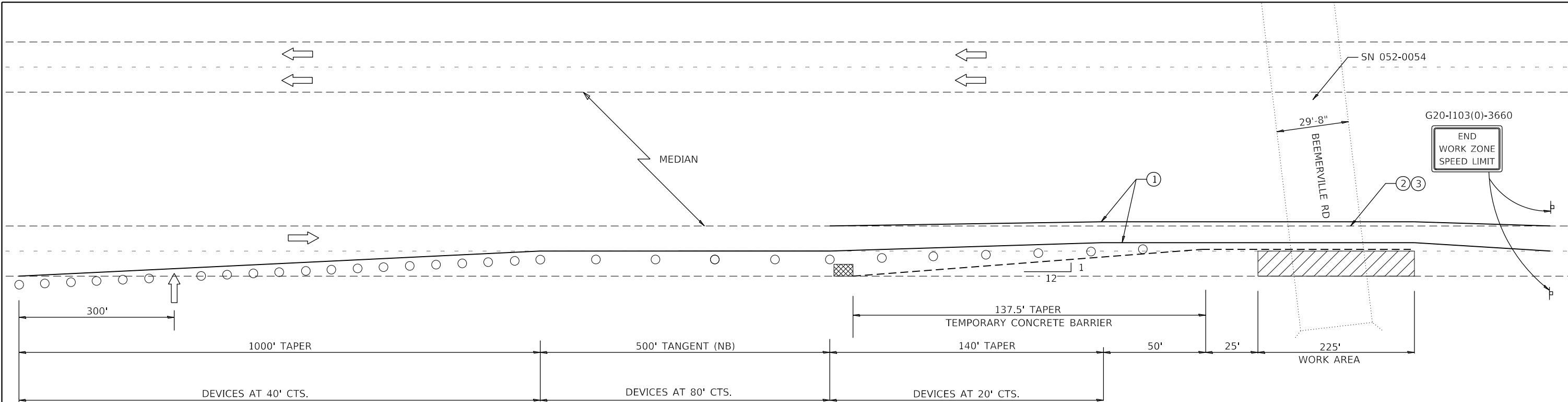
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PLOT DATE = Dec-03-2018 09:01:39 AM	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICALS

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(103-1HB-2)BP	LEE	13	5
CONTRACT NO. 64N12			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKINGS

ALL TEMPORARY PAVEMENT MARKING SHALL BE, PAVEMENT MARKING TAPE, TYPE IV 4" AND THE MATERIALS SHALL BE ACCORDING TO ARTICLE 1095.06 OF THE STANDARD AND SPECIFICATIONS. THE CONTRACTOR SHALL INSTALL, MAINTAIN AND REMOVE ALL TEMPORARY PAVEMENT MARKING TAPE. THIS WORK SHALL NOT BE PAID SEPERATELY AND SHALL BE INCLUDED IN THE COST OF THE "TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)".

ALL CONFLICTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PROTECTED PRIOR TO COVERING WITH PAVEMENT MARKING BLACKOUT TAPE, 4". PAVEMENT MARKING BLACKOUT TAPE, 4" SHALL EXTEND A MINIMUM OF 2 INCHES BEYOND THE EXISTING MARKINGS OR REFLECTORS IN ALL DIRECTIONS. THIS WORK SHALL INCLUDE PROTECTING EXISTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS, INSTALLING, MAINTAINING AND REMOVING BLACKOUT TAPE. THIS WORK SHALL NOT BE PAID SEPERATELY AND SHALL BE INCLUDED IN THE COST OF THE "TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)".

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCR OACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

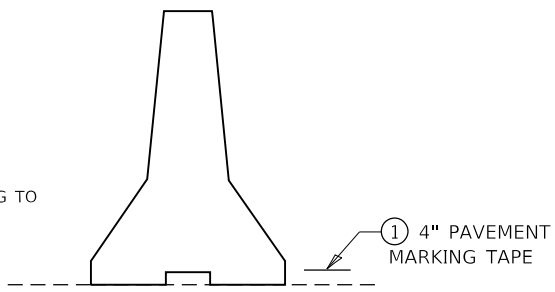
TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN
- TRAFFIC CONTROL DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② EXISTING PAVEMENT MARKING LINE
- ③ BLACKOUT TAPE TO COVER CONFLICTING EXISTING PAVEMENT MARKING LINES

*NO EQUIPMENT OR MATERIALS SHALL ENCR OACH WITHIN AN DISTANCE OF 2'-0" AS MEASURED FROM THE BASE OF THE TEMPORARY CONCRETE BARRIER TO THE Q OF ROADWAY



TEMPORARY CONCRETE BARRIER

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SEE STANDARD 701400 (SPECIAL) FOR APPROACH START OF LANE CLOSURE TAPER

USER NAME = drossdd	DESIGNED - _____	REVISED - _____
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PLOT DATE = Dec-03-2018 09:30:59 AM	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
NORTHBOUND**

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

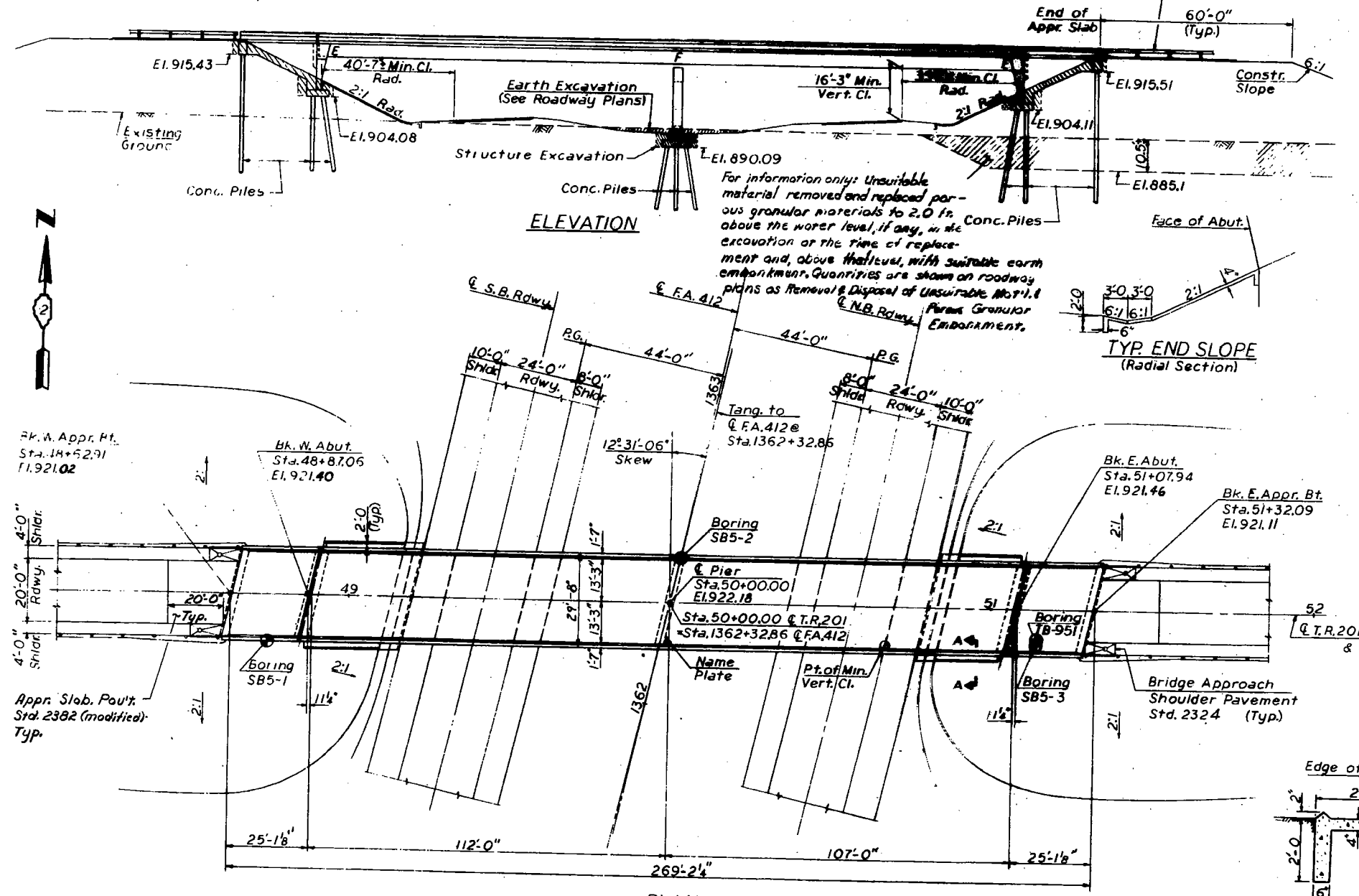
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39	(103-1HB-2)BP	LEE	13	8
CONTRACT NO. 64N12				
ILLINOIS FED. AID PROJECT				

B.M. #22: Top R.R. Spike in P.P.
Sta. 1362+39; 62' Lt.
Elev. 897.70

FOR INFORMATION ONLY

103-GA. 103-118-2, 18, 19-1
166

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GA. 402	LEE	453	166



GENERAL NOTES

- See Proposal for Boring Data.
- Fasteners shall be high strength bolts (AASHTO M 164, Type 3) - Bolts 3/4" ϕ , open holes 13/16" ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = M223 = 81,060
M183 = 128,000
- The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel except where otherwise noted.
- All contact surfaces of joints for the diaphragms shall be free of paint or lacquer.
- 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 (bolting cross frames) over supports.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material of the steel girders or wide flange beams.
- Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
- Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. (For Type-I Elastomeric Bearings, shims of the dimensions of top plate shall be provided and placed as detailed).
- Concrete piles at abutments shall be driven in holes pre-cored through the embankment in accordance with Article 513.09(c) of the Standard Specifications.
- The contractor shall drive one concrete test pile at each abutment and at the pier, as directed by the Engineer before ordering the remainder of the piles.

TOTAL BILL OF MATERIAL

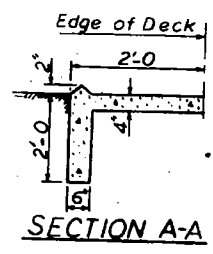
ITEM	UNIT	SUB-STRUCT.	SUPER-STRUCT.	TOTAL
Structure Excavation	Cu.Yds.	182	—	182
Structural Steel	L.S.	—	0.27	0.27
Reinforcement Bars (Epoxy Coated)	Lbs.	—	46,400	46,400
Class X Concrete	Cu.Yds.	200.7	277.5	478.2
Reinforcement Bars	Lbs.	27,810	24,010	51,820
Protective Coat	Sq.Yds.	—	199	199
Concrete Piles	Lin.Ft.	2899	—	2899
Test Piles, Concrete	Ea.	3	—	3
Gravel, 4"	Sq.Yds.	299	—	299
Sand Backfill	Cu.Yds.	155	—	155
Name Plates	Ea.	1	—	1
Shear Connectors	Ea.	—	1944	1944
Preformed Joint Seal (4)	Lin.Ft.	—	61	61
Drainage Scuppers	Ea.	—	4	4

STATION 1362+32.86
BUILT 198 BY
STATE OF ILLINOIS
F.A. 412 SEC. 103-118-2
F.A. PROJ. PD-412-444
LOADING HS20
STR. NO. *

NAME PLATE
Standard 213

*Str. No. to be supplied by District.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY



**SUPERSTRUCTURE DECK SLAB
LOAD FACTOR DESIGN**
F_c = 5500 psi
F_y = 60,000 psi

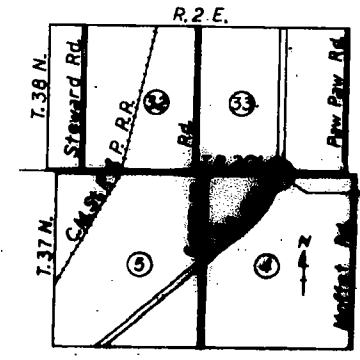
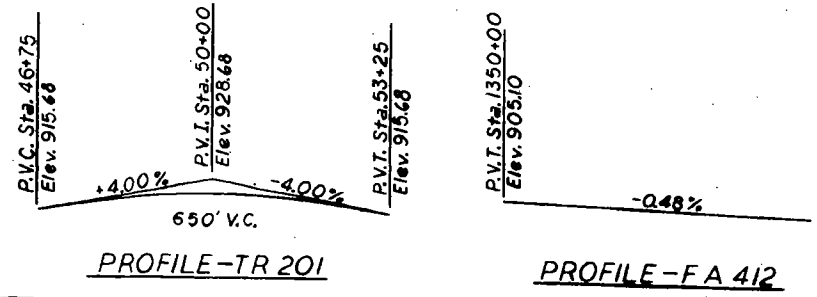
NOTE
For Boring Data see
Proposal.

DESIGN STRESSES (Work. Str. Desn.)

f_c = 1400 p.s.i. (Appr. Spand. Sub.)
f_s = 24,000 p.s.i. (Reinf.)
f_s = 20,000 M/183 to 27,000 psi M223 Gr. 50 (Structure)
n = 10
Allowable & Defl. = L/1200 Comp.
Allow 25% Sq. Ft. for Fut. W.S.
Loading: HS20-44
Design Specifications:
AASHTO 1973 and Interims
as applicable

CURVE DATA

(@ F.A. 412)
P.I. Sta. 1355+20.12
Δ = 48°-34'-21"
D = 1726'-00"
T = 1762.74'
R = 3906.53'
L = 3311.76'
E = 379.29'
S.E. = 0.052%



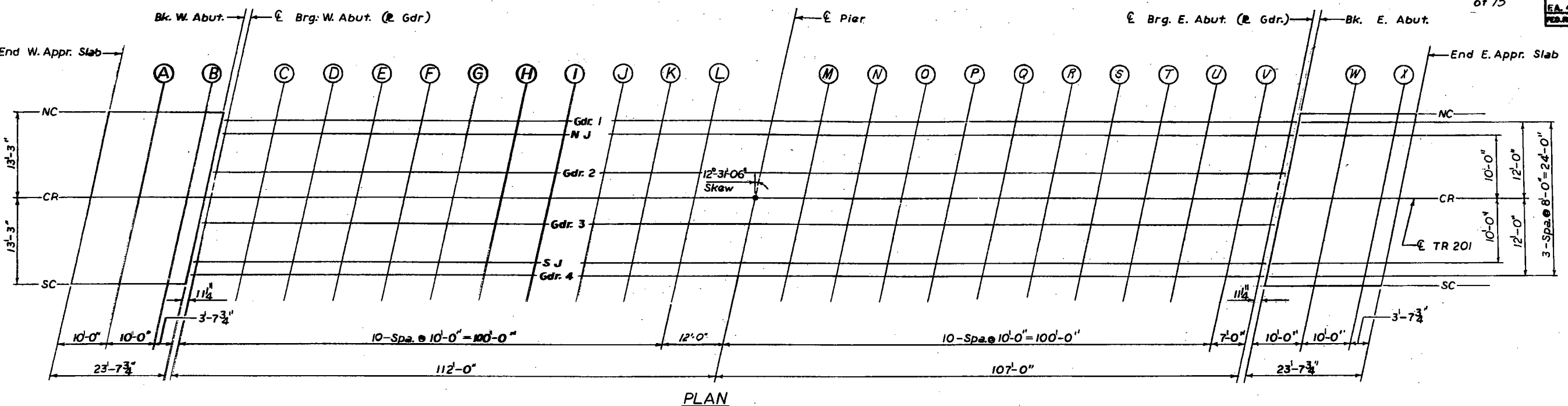
LOCATION PLAN

REVISIONS

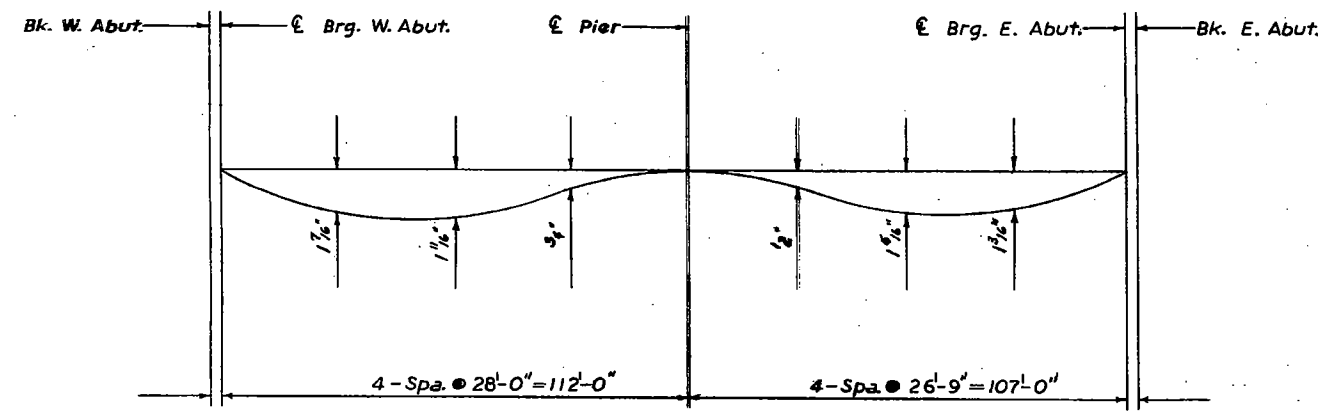
NO.	DESCRIPTION
1	Revised deck, curbs and parapets, lowered grade locally 0.12 feet, changed pier girder flange plates and related elevations and quantities 8-28-87

052-0054

NO.	SECTION	COUNTY	DATE	BY
FA 412	K	LEE	459	
FED. ROAD DIST. NO. 7 ILLINOIS PROJ.				



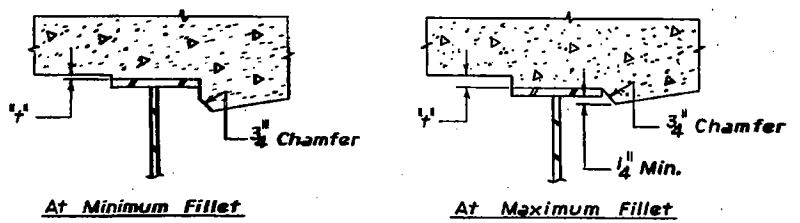
PLAN



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)

NOTE
THIS DIAGRAM APPLIES TO ALL GIRDERS. THE DEFLECTIONS ARE NOT TO BE USED IN THE FIELD IF THE ENGINEER IS WORKING FROM THE THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION.

* DEFLECTIONS SHOWN ARE FOR CR. DEFLECTIONS FOR NC AND SC ARE ZERO.



FILLET HEIGHT

TO DETERMINE "t": AFTER ALL STRUCTURAL STEEL HAS BEEN SECTORED, ELEVATIONS OF THE TOP FLANGES OF THE GIRDERS SHALL BE TAKEN BY MEANS OF A LEVEL. THESE ELEVATIONS SUBTRACTED FROM THE THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS, LESS SLAB THICKNESS, EQUALS THE FILLET HEIGHT "t" ABOVE FLANGE OF GIRDERS.

FOR INFORMATION ONLY

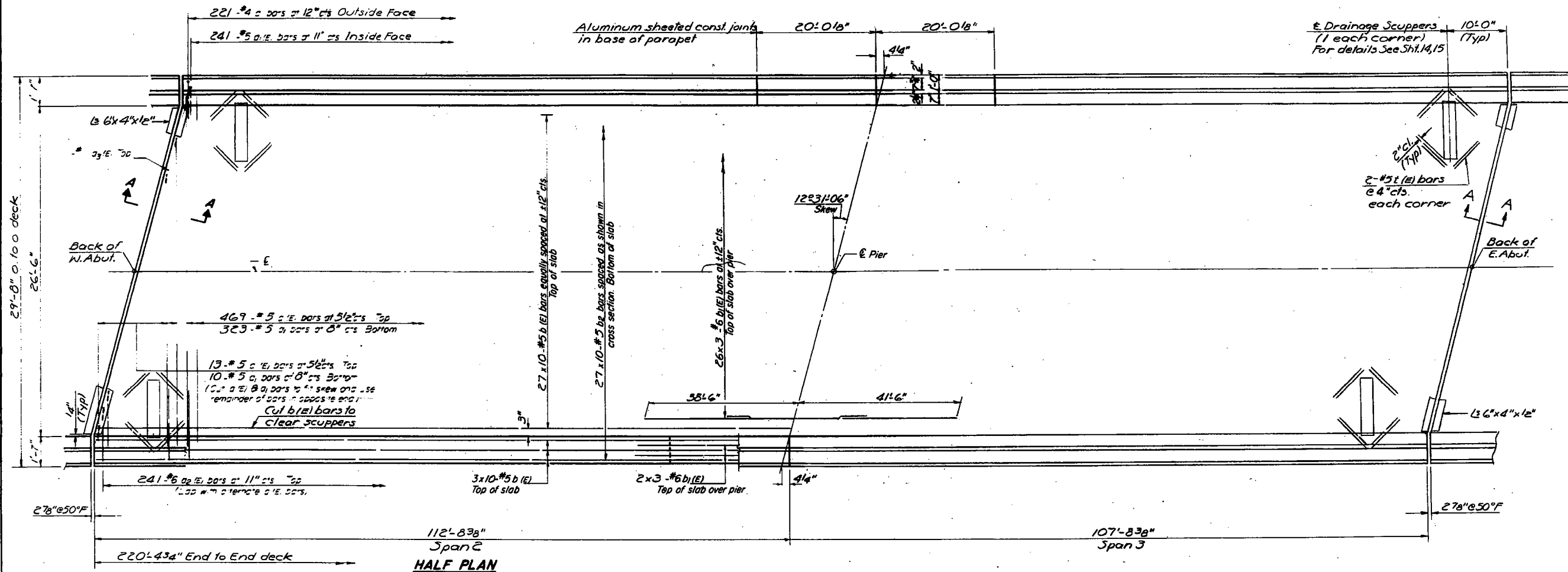
- NC = NORTH CURB
- SC = SOUTH CURB
- CR = CENTERLINE
- SJ = STRUCTURAL JOINT
- SJ = STRUCTURAL JOINT

Work this sheet with Sht. 4

ILLINOIS DIVISION OF HIGHWAYS	
F.A. ROUTE 412	
PROJECT	SECTION 103-11B-2
LEE COUNTY	
DECK ELEVATIONS	

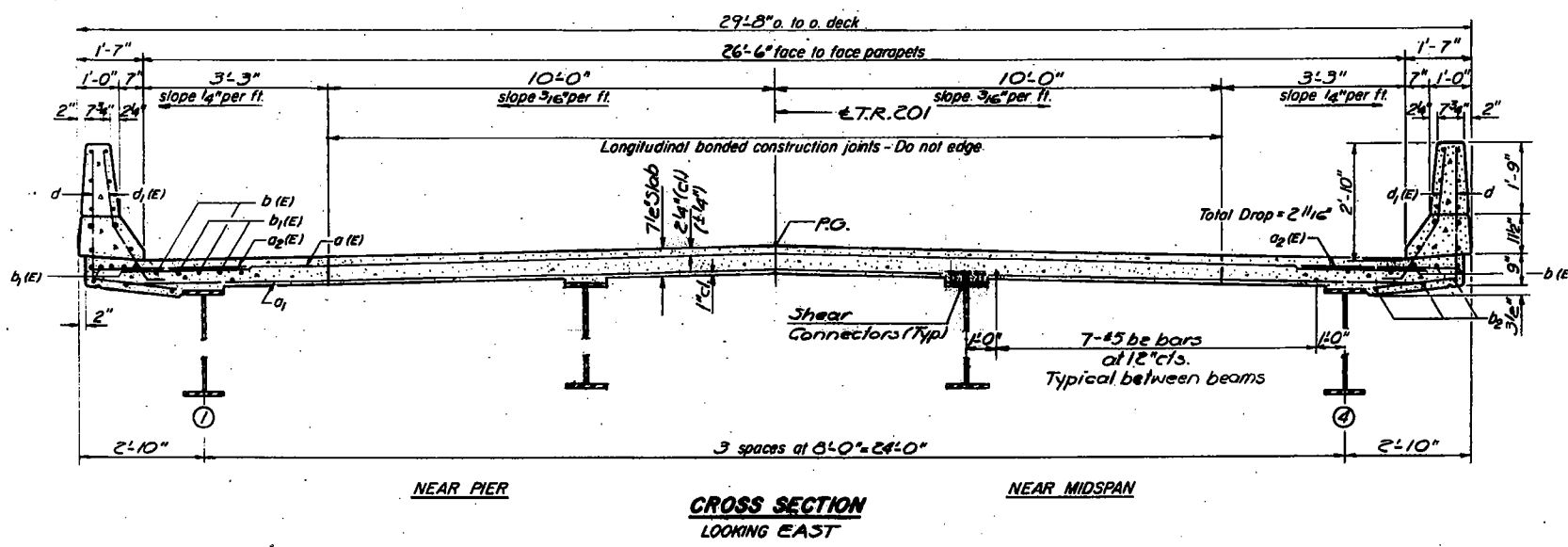
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 15 SHEETS
S.R.L. P.A. 412	4	Lee	459	170	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT: # 103-112, 118B-1, 118B-2, 118B-3		



MIN. BAR LAP
#5 bar 1'-8"
#6 bar 2'-0"

FOR INFORMATION ONLY



NOTES:
See sheet # 6 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

DESIGNED
CHECKED
DRAWN
CHECKED

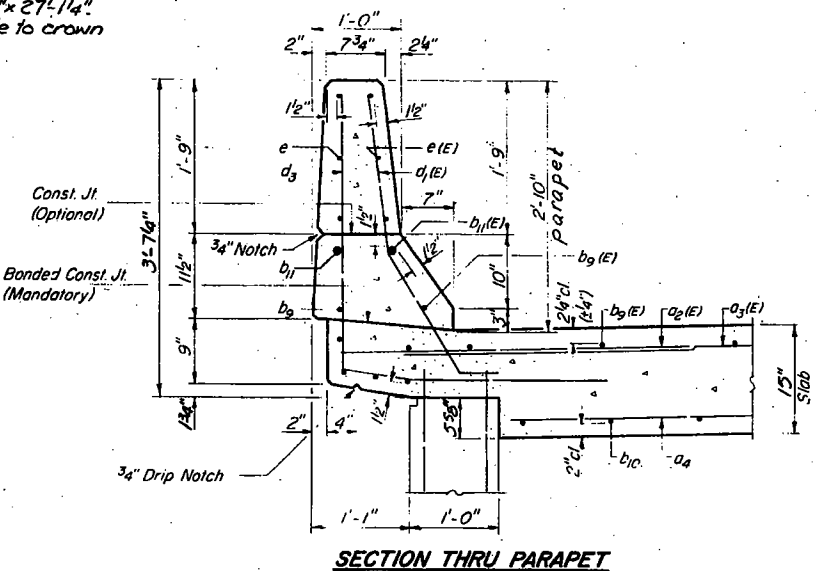
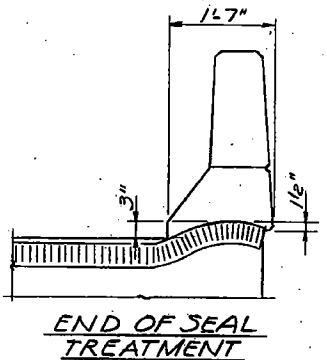
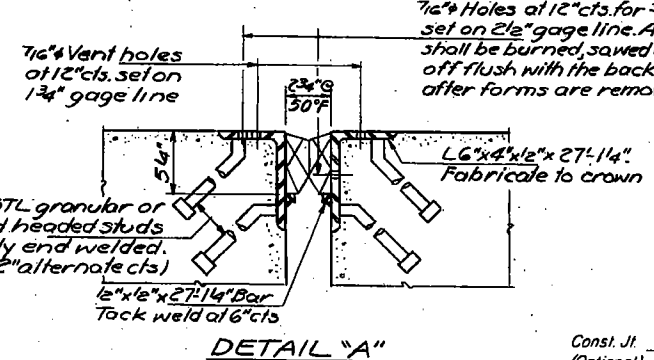
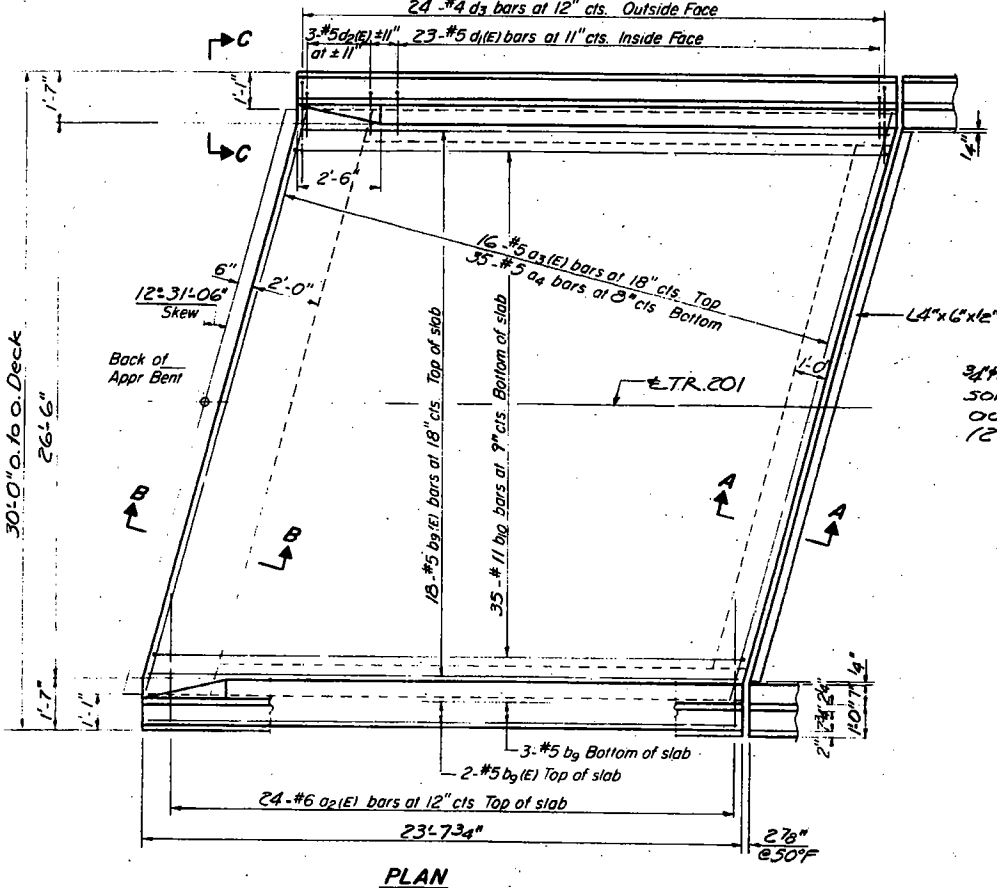
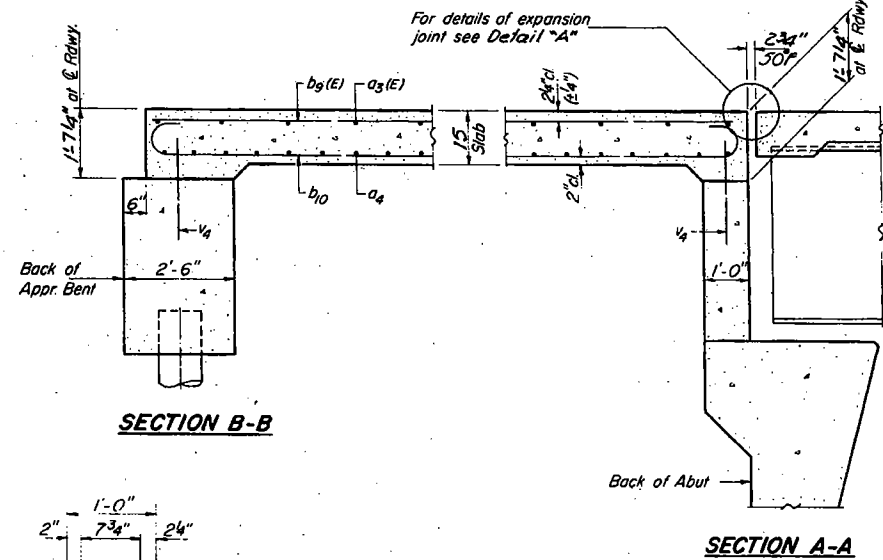
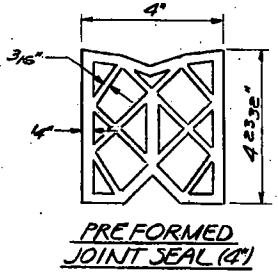
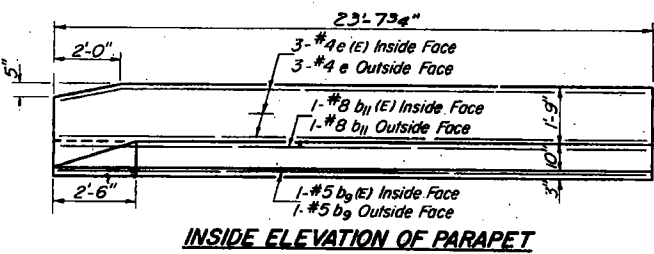
S-2-L (30) 3-30-80

SUPERSTRUCTURE
SPANS 2 AND 3
F.A. ROUTE 412
SEC. 103-118B-2 LEE COUNTY
STATION 1362+32.86

FOR INFORMATION ONLY

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

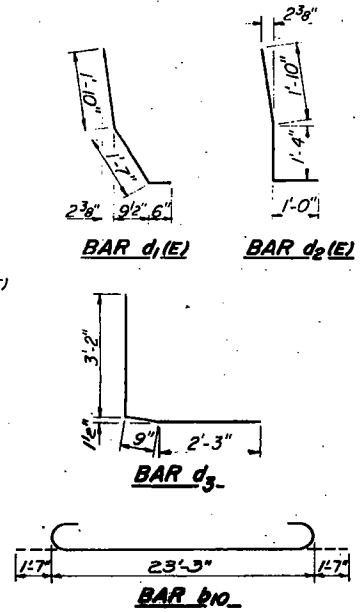
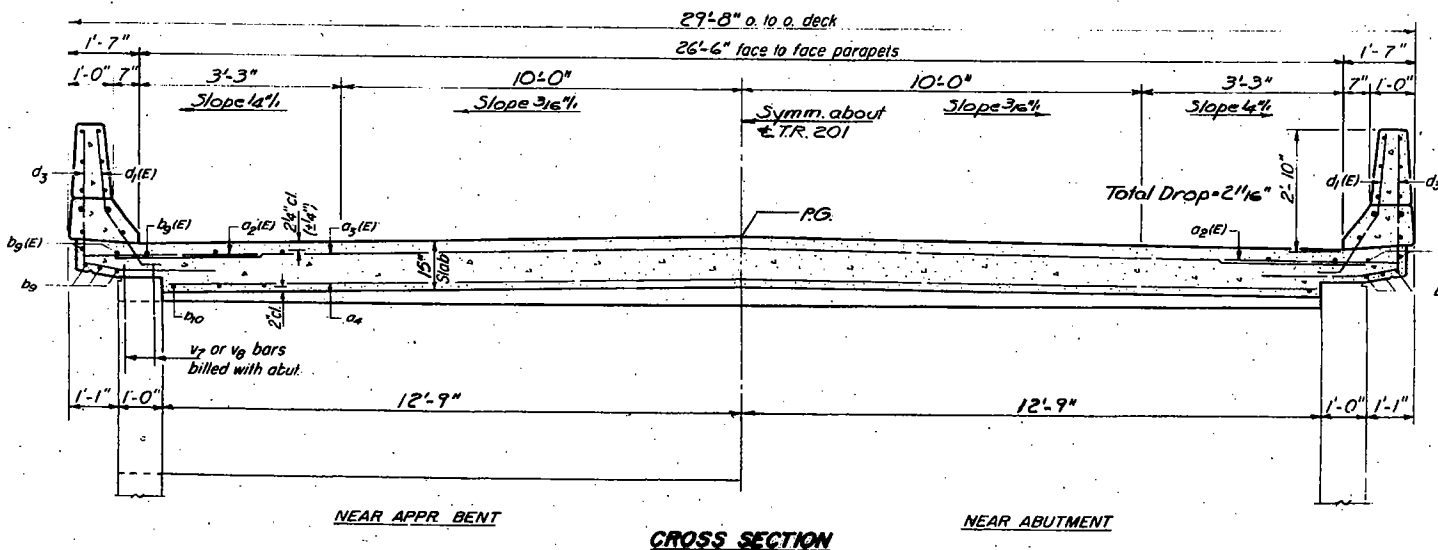
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 15 SHEETS
412	#	Lee	459	172	
* 103-(1A, 1HB-1, 1HB-2, 1B, 1B-1)					



**TWO APPR. SLABS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d ₂ (E)	96	#6	4'-0"	
d ₃ (E)	32	#5	28'-8"	
a ₄	70	#5	25'-9"	
b ₉ (E)	48	#5	23'-3"	
b ₉	16	#5	23'-3"	
b ₁₀	70	#11	26'-5"	
b ₁₁ (E)	4	#8	23'-3"	
b ₁₁	4	#8	23'-3"	
d ₁ (E)	92	#5	3'-11"	L
d ₂ (E)	12	#5	4'-2"	L
d ₃	96	#4	6'-2"	L
e(E)	12	#4	23'-3"	
e	12	#4	23'-3"	
Reinforcement Bars			Lbs.	3560
Reinforcement Bars (Epoxy Coated)			Lbs.	12,920
Class X Concrete			Cu.Yds.	72.2

Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.

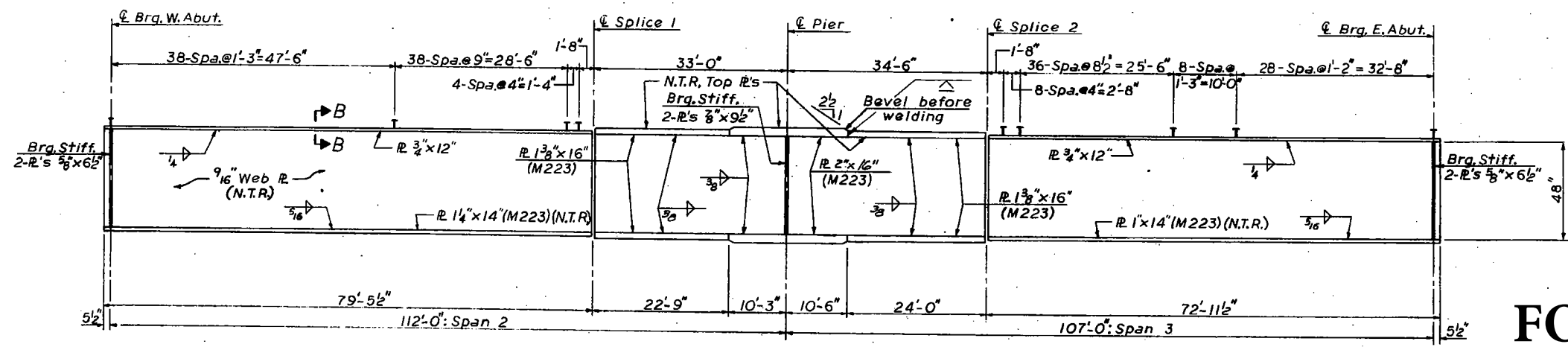
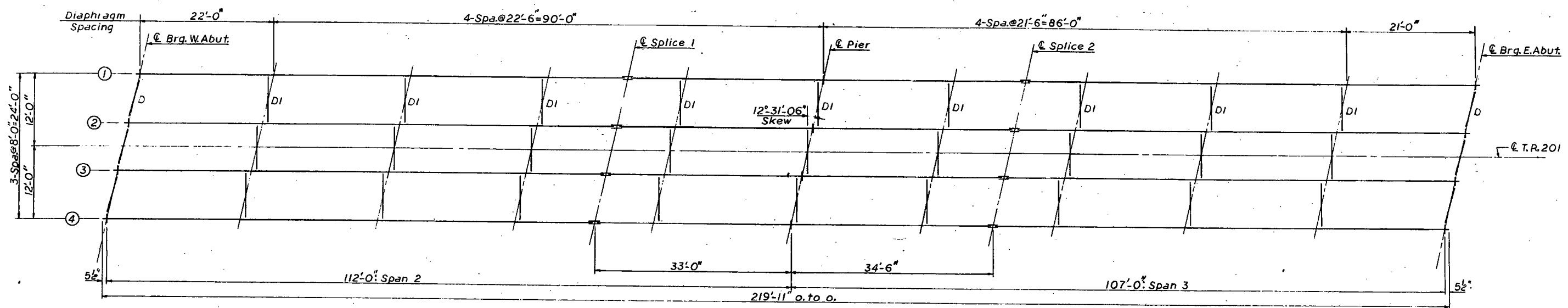


DESIGNED
CHECKED
DRAWN
CHECKED

SA-2-L (E 30°) 6-1-82

**SUPERSTRUCTURE
SPANS 1 AND 4
FA ROUTE 412
SEC. 103-1HB-2 LEE COUNTY
STA. 1362+32.86**

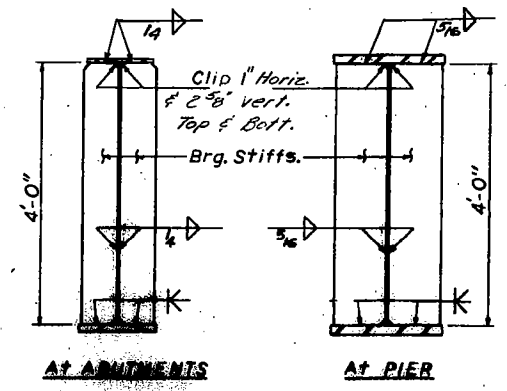
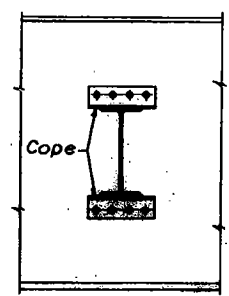
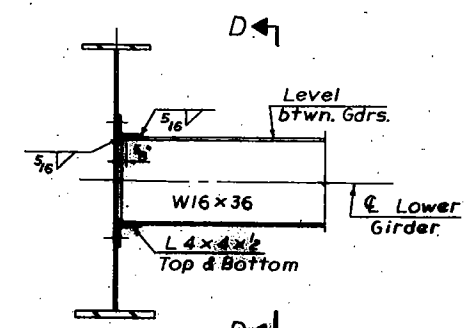
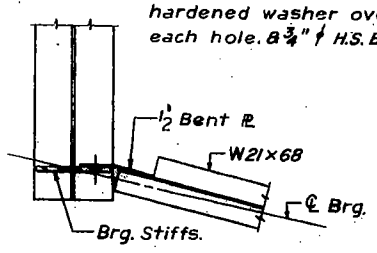
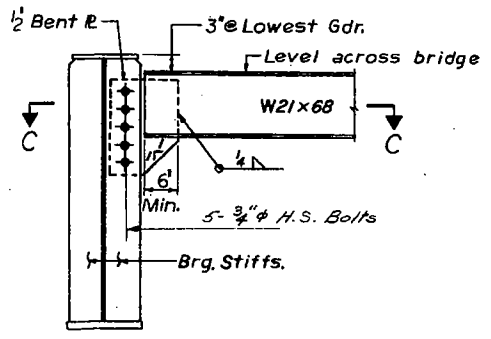
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EA. 412	LEE	459	175



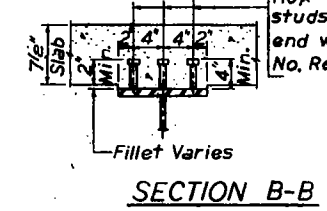
FOR INFORMATION ONLY

(All steel is AASHTO M183 except where noted)
 (All steel noted M223 is AASHTO Grade 50)
 (N.T.R.=Notch Toughness Requirement)

NOTE
 All holes in diaphragm Conn. R's and angles shall be 1 5/16" φ. Use hardened washer over each hole. @ 3/4" H.S. Bolts



3/4" Granular or solid flux filled headed studs automatically end welded to flange. No. Req'd = 1944



Work this sheet with Sht. 9

103-148-2

103-148-2

103-148-2