

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE 57 (INTERSTATE 57) AT
F.A.U. ROUTE 3778 (CRAWFORD AVENUE) (SN 016-1015)
SECTION 1112.1B
PROJECT : ACBHI-057-7(292)346
COOK COUNTY
BRIDGE DECK REMOVAL AND REPLACEMENT
C-91-534-99

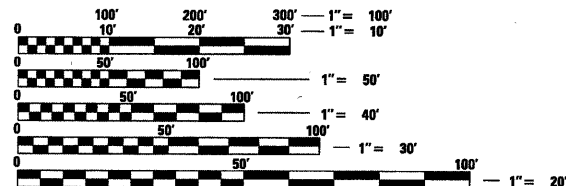
TRAFFIC DATA

CRAWFORD AVENUE
EXISTING ADT : 13,300 (2010)
POSTED SPEED LIMIT 45 MPH

IL 57
EXISTING ADT : 105,100 (2008)
POSTED SPEED LIMIT 55 MPH

THIS PROJECT WILL REQUIRE AUTHORIZATION UNDER
(SWPPP) PERMIT

IMPROVEMENT IS LOCATED IN THE CITY OF MARKHAM



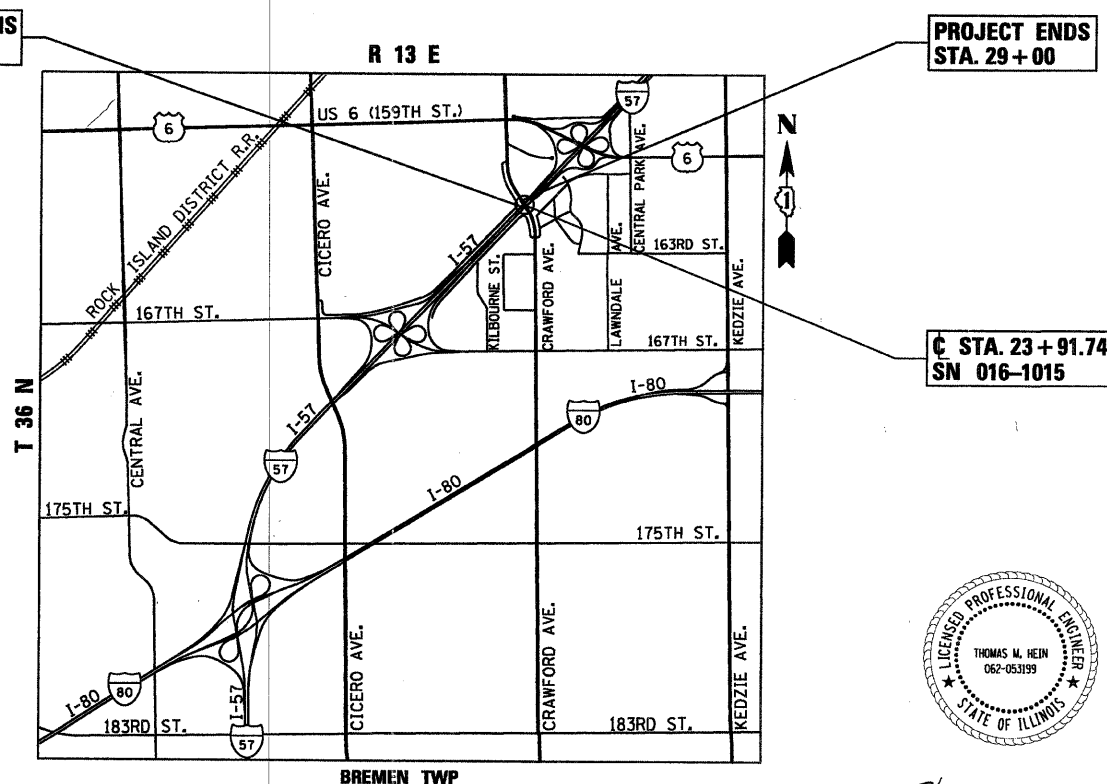
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER ROBERT BORO
PROJECT MANAGER ISSAM RAYYAN

CONTRACT NO. 60863

ENTRAN
5440 N. CUMBERLAND AVE, SUITE 111
CHICAGO, IL 60656



GROSS LENGTH = 975 FT. = 0.18 MILE
NET LENGTH = 975 FT. = 0.18 MILE

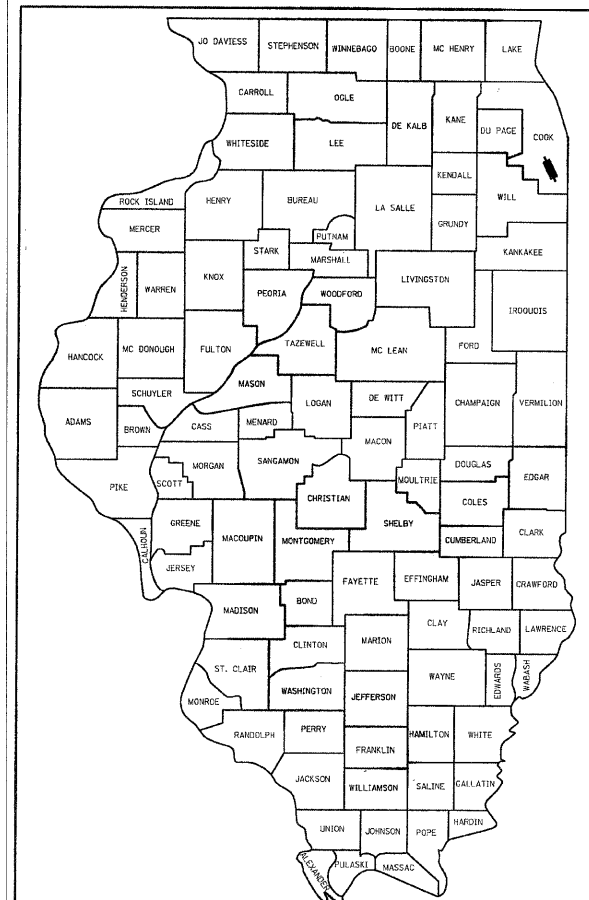


Thomas M. Hein
THOMAS M. HEIN, P. E.
IL. LIC. NO. 062-053199
EXP 11-30-2011
DATE 07-07-2011

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	1
ILLINOIS CONTRACT NO. 60863				

D-91-534-99

*75+1=76



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JULY 12 2011

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 19 2011

Scott E. Stitt, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

August 19 2011

Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF MARKHAM.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER AT (708) 597-9800 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHOWN IN THE PLANS.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CONCRETE CURB AND GUTTER TYPE B6.12, WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 AND THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847)705-4155 A MINIMUM OF 72 HOURS PRIOR TO START.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1.5 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

17. OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

18. WET REFLECTIVE TEMPORARY TAPE, TYPE III SHALL BE USED FOR TEMPORARY PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF TEMPORARY PAVEMENT MARKING TAPE REMOVAL SHALL BE INCLUDED IN THE COST OF WORK ZONE PAVEMENT MARKING REMOVAL.

19. FULL DEPTH SAW CUTS SHALL BE MADE AS DIRECTED BY THE ENGINEER TO REMOVE THE EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALK, AND MEDIAN. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR THE ITEM BEING REMOVED. SAW CUTS NEEDED FOR CLASS B PATCHES WILL BE PAID FOR AT THE UNIT PRICE FOR "SAW CUTS".

HIGHWAY STANDARDS

- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 420401-08 BRIDGE APPROACH PAVEMENT CONNECTOR
- 420701-02 PAVEMENT FABRIC
- 442101-07 CLASS B PATCHES
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606306-03 CORRUGATED PC CONCRETE MEDIANS
- 630001-09 STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-07 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631031-09 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 664001-02 CHAIN LINK FENCE
- 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
- 701400-06 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-06 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-06 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701431-06 LANE CLOSURE, MULTILANE, UNDIVIDED WITH Crossover, FOR SPEEDS $\leq$ 45 MPH TO 55 MPH
- 701606-07 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701901-01 TRAFFIC CONTROL DEVICES
- 704001-06 TEMPORARY CONCRETE BARRIER
- 720006-02 SIGN PANEL ERECTION DETAILS

515001-03
542401-01
609006-05
701311-03
701421-03

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USER NAME = 2piend

DESIGNED - DJB

REVISED -

DRAWN - ENTRAN

REVISED -

PLOT SCALE = 50.0000' / IN.

CHECKED - TMH

REVISED -

PLOT DATE = 7/6/2011

DATE - 06/15/11

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
INDEX OF SHEETS, GENERAL NOTES & HIGHWAY STANDARDS

SCALE: 50.0000' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	2
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Rev

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	80% FED. 20% STATE URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY 0004	BRIDGE 0014
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	607	607	0
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1	0.0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	11	11	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	11	11	0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	11	11	0
25100630	EROSION CONTROL BLANKET	SQ YD	607	607	0
28000400	PERIMETER EROSION BARRIER	FOOT	1,633	1,633	0
28000510	INLET FILTERS	EACH	8	8	0
28100107	STONE RIPRAP, CLASS A4	SQ YD	3	0	3
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	778	778	0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	780	780	0
40600300	AGGREGATE (PRIME COAT)	TON	16.0	16.0	0.0
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	218	218	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	26	26	0
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	160	160	0
40600990	TEMPORARY RAMP	SQ YD	31	31	0
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	328	328	0
42001300	PROTECTIVE COAT	SQ YD	736	736	0
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	69	69	0
44000100	PAVEMENT REMOVAL	SQ YD	448	448	0
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2,194	2,194	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,606	1,606	0
44000600	SIDEWALK REMOVAL	SQ FT	204	204	0
44200966	CLASS B PATCHES, TYPE I, 10 INCH	SQ YD	120	120	0
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	268	268	0
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	426	426	0
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	320	320	0
44201294	CLASS B PATCH - EXPANSION JOINT	FOOT	360	360	0
44201296	DEFORMED BARS - EXPANSION JOINT	EACH	500	500	0
44201299	DOWEL BARS 1 1/2"	EACH	500	500	0
44213100	PAVEMENT FABRIC	SQ YD	746	746	0
44213200	SAW CUTS	FOOT	3,560	3,560	0
44213208	TIE BARS 1 1/4"	EACH	940	940	0
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	3,742	3,742	0
50102400	CONCRETE REMOVAL	CU YD	52.4	0.0	52.4

CODE NO.	ITEM	UNIT	80% FED. 20% STATE URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY 0004	BRIDGE 0014
50104650	SLOPE WALL REMOVAL	SQ YD	136	0	136
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1	0	1
50157300	PROTECTIVE SHIELD	SQ YD	1,311	0	1,311
50200100	STRUCTURE EXCAVATION	CU YD	36	0	36
50300225	CONCRETE STRUCTURES	CU YD	69.7	0.0	69.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	817.6	0.0	817.6
50300260	BRIDGE DECK GROOVING	SQ YD	1,335	0	1,335
50300300	PROTECTIVE COAT	SQ YD	2,244	0	2,244
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3,850	0	3,850
50500505	STUD SHEAR CONNECTORS	EACH	320	0	320
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	175,100	0	175,100
50800515	BAR SPLICERS	EACH	988	0	988
50901730	BRIDGE FENCE RAILING	FOOT	501	0	501
51100100	SLOPE WALL 4 INCH	SQ YD	139	0	139
51500100	NAME PLATES	EACH	1	0	1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	146	0	146
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	20	0	20
52100530	ANCHOR BOLTS, 1 1/4"	EACH	40	0	40
54213447	END SECTIONS 12"	EACH	2	0	2
58700300	CONCRETE SEALER	SQ FT	803	0	803
59000200	EPOXY CRACK INJECTION	FOOT	41	0	41
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	24	0	24
60100946	PIPE DRAINS 12"	FOOT	179	179	0
60260100	INLETS TO BE ADJUSTED	EACH	1	1	0
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	10	10	0
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,606	1,606	0
60624600	CORRUGATED MEDIAN	SQ FT	3,412	3,412	0
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	2	2	0
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100	0
* 60900515	CONCRETE THRUST BLOCKS	EACH	2	2	0
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	0
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	0
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1	0
63200310	GUARDRAIL REMOVAL	FOOT	345	345	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	0
67100100	MOBILIZATION	L SUM	1.0	1.0	0.0
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1.0	1.0	0.0
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1.0	1.0	0.0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	80	80	0
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12	0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	100	100	0

* SPECIALTY ITEMS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
SUMMARY OF QUANTITIES

SCALE: 50.00' = 1" SHEET NO. OF SHEETS STA. TO STA.

F.A.I. SECTION COUNTY TOTAL SHEET
RTE. 57 1112.18 COOK 75 3
NO.
CONTRACT NO. 60863
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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PLOT SCALE = 50.00' = 1"
PLOT DATE = 7/6/2011

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DRAWN - ENTRAN
CHECKED - TMH
DATE - 06/15/11

REVISED -
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Rev.

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78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS
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FBI ROUTE 57 (INTERSTATE 57) AT FBI ROUTE 3778 (CRAWFORD AVENUE)

SUMMARY OF QUANTITIES

SCALE: 50.00' / IN.	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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57	1112.1B	COOK	75	4
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CONTRACT NO. 60863
AID PROJECT

			CONTRACT NO.
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT NO.	

Rev.

ENTRAN

USER NAME = 2p10r1d

PLOT SCALE = 50.00' / IN.

PLOT DATE = 7/6/2011

DESIGNED - DJB

DRAWN	-	ENTRAN
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CHECKED - TMH

DATE - 06/15/1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FBI ROUTE 57 (INTERSTATE 57) AT FBI ROUTE 3778 (CRAWFORD AVENUE)

SUMMARY OF QUANTITIES

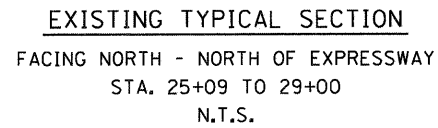
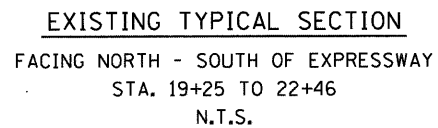
SCALE: 50.00' / IN.	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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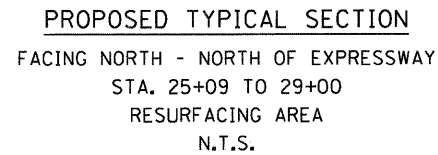
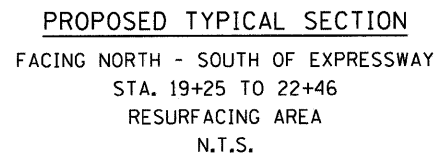
57	1112.1B	COOK	75	4
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CONTRACT NO. 60863
AID PROJECT

			CONTRACT NO.
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT NO.	



- ### EXISTING LEGEND
- (A) EXIST. PCC PAVEMENT, $\pm 10''$
 - (B) EXIST. STABILIZED SUB-BASE, $\pm 4''$
 - (C) PC CONCRETE MEDIAN
 - (D) COMB. CONCRETE CURB & GUTTER, TYPE B-6.12
 - (E) SAWCUT (INCIDENTAL)
 - (F) EXIST. GUARDRAIL
 - (G) EXIST. HMA SURFACE, $\pm 2\frac{1}{2}''$
 - (H) HMA SURFACE REMOVAL, $2\frac{1}{2}''$

 REMOVAL AREA
(LIMITS ARE SHOWN ON THE PLANS)

- ### PROPOSED LEGEND
- | | |
|---|---|
| ① | HMA SURFACE COURSE, MIX "D", N70; 1½" |
| ② | LEVELING BINDER (MACHINE METHOD), N70; 1" |
| ③ | CORRUGATED MEDIAN |
| ④ | COMB. CONCRETE CURB & GUTTER, TYPE B-6.12 |
| ⑤ | SUB-BASE GRANULAR MATERIAL, TYPE B; 6" |
| ⑥ | SEEDING, CLASS 2A |
| ⑦ | TOPSOIL FURNISH AND PLACE, 4" |

EARTH EXCAVATION FOR PROPOSED SUBGRADE
MATERIAL SHALL BE INCLUDED IN THE COST OF
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

BACKFILL BEHIND THE CURB AND GUTTER SHALL
BE INCLUDED IN THE COST OF COMBINATION
CONCRETE CURB AND GUTTER, TYPE B-6.12

HMA MIXTURE REQUIREMENTS

MIX DESIGNS	AIR VOIDS @ NDES
PAVEMENT RESURFACING	
HMA SURFACE COURSE, MIX 'D', N70 (IL-9.5 mm); 1½"	4% @ 70 GYRATIONS
LEVELING BINDER, MACHINE METHOD, N70 (IL-9.5 mm); 1"	4% @ 70 GYRATIONS
TEMPORARY PAVEMENT	
TEMP PAVEMENT - HMA SURFACE, MIX "D", N50, 1½"	4% @ 50 GYRATIONS
TEMP PAVEMENT - HMA BINDER, (IL-19mm); 8/3"	4% @ 50 GYRATIONS

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SY/IN.
THE RATE USED TO CALCULATE BITUMINOUS MATERIAL PRIME COAT IS 0.10 GAL/SY

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

TEMP PAVEMENT NOTE: IF THE CONTRACTOR CHOOSES TO USE CONCRETE, THE THICKNESS SHALL BE 10".

SCHEDULE OF QUANTITIES

21101615 TOPSOIL FURNISH AND PLACE, 4"

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD

LEFT					
19+25.0	2.0	-	22+18.0	2.0	65.1
22+18.0	15.0	-	22+68.0	13.5	79.2
22+68.0	7.0	-	23+15.0	4.0	28.7
24+68.0	5.5	-	25+19.0	5.5	31.2
25+19.0	10.0	-	25+53.0	10.0	37.8
25+53.0	2.0	-	29+00.0	2.0	77.1
RIGHT					
19+25.0	2.0	-	22+37.0	2.0	69.3
22+37.0	10.5	-	22+84.0	11.0	56.1
22+84.0	4.5	-	23+30.0	4.5	23.0
24+84.0	4.5	-	25+33.0	4.5	24.5
25+33.0	10.0	-	25+71.0	10.0	42.2
25+71.0	2.0	-	29+00.0	2.0	73.1
=====					
TOTAL =					607

25000210 SEEDING, CLASS 2A

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	ACRE

LEFT					
19+25.0	2.0	-	22+18.0	2.0	0.013
22+18.0	15.0	-	22+68.0	13.5	0.016
22+68.0	7.0	-	23+15.0	4.0	0.006
24+68.0	5.5	-	25+19.0	5.5	0.006
25+19.0	10.0	-	25+53.0	10.0	0.008
25+53.0	2.0	-	29+00.0	2.0	0.016
RIGHT					
19+25.0	2.0	-	22+37.0	2.0	0.014
22+37.0	10.5	-	22+84.0	11.0	0.012
22+84.0	4.5	-	23+30.0	4.5	0.005
24+84.0	4.5	-	25+33.0	4.5	0.005
25+33.0	10.0	-	25+71.0	10.0	0.009
25+71.0	2.0	-	29+00.0	2.0	0.015
=====					
TOTAL =					0.1

25100630 EROSION CONTROL BLANKET

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD

LEFT					
19+25.0	2.0	-	22+18.0	2.0	65.1
22+18.0	15.0	-	22+68.0	13.5	79.2
22+68.0	7.0	-	23+15.0	4.0	28.7
24+68.0	5.5	-	25+19.0	5.5	31.2
25+19.0	10.0	-	25+53.0	10.0	37.8
25+53.0	2.0	-	29+00.0	2.0	77.1
RIGHT					
19+25.0	2.0	-	22+37.0	2.0	69.3
22+37.0	10.5	-	22+84.0	11.0	56.1
22+84.0	4.5	-	23+30.0	4.5	23.0
24+84.0	4.5	-	25+33.0	4.5	24.5
25+33.0	10.0	-	25+71.0	10.0	42.2
25+71.0	2.0	-	29+00.0	2.0	73.1
=====					
TOTAL =					607

28000400 PERIMETER EROSION BARRIER

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT

LEFT					
19+25.0	27.5 LT	-	19+26.0	29.5 LT	2.2
19+26.0	29.5 LT	-	22+18.0	29.5 LT	292.0
22+18.0	29.5 LT	-	22+19.0	41.0 LT	11.5
22+19.0	41.0 LT	-	23+15.0	36.0 LT	96.1
23+15.0	36.0 LT	-	23+15.0	26.0 LT	10.0
24+70.0	26.0 LT	-	24+68.0	37.5 LT	11.7
24+68.0	37.5 LT	-	25+53.0	37.5 LT	85.0
25+53.0	29.0 LT	-	29+00.0	30.0 LT	347.0
29+00.0	30.0 LT	-	29+00.0	28.0 LT	2.0
=====					

28000400 PERIMETER EROSION BARRIER (CONT)

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	TON

RIGHT					
19+24.0	27.5 RT	-	19+24.0	30.0 RT	2.5
19+24.0	30.0 RT	-	22+37.0	31.0 RT	313.0
22+37.0	31.0 RT	-	22+37.0	39.0 RT	8.0
22+37.0	39.0 RT	-	23+30.0	37.5 RT	93.0
23+30.0	37.5 RT	-	23+30.0	27.5 RT	10.0
24+83.0	27.5 RT	-	24+85.0	37.5 RT	10.2
25+71.0	37.5 RT	-	25+71.0	30.0 RT	7.5
25+71.0	30.0 RT	-	29+00.0	30.0 RT	329.0
29+00.0	30.0 RT	-	29+00.0	27.5 RT	2.5
=====					
TOTAL =					1.633

28000510 INLET FILTERS

STATION	OFFSET(FT)	-			EACH

20+00.0	27.0 LT	-			1.0
21+00.0	27.0 LT	-			1.0
22+00.0	27.0 LT	-			1.0
26+00.0	27.0 LT	-			1.0
26+00.0	27.0 RT	-			1.0
28+00.0	27.0 LT	-			1.0
28+00.0	27.0 RT	-			1.0
29+00.0	27.0 RT	-			1.0
=====					
TOTAL =					8

31101400 SUBBASE GRANULAR MATERIAL, TYPE B 6"

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD

COMBINATION CURB AND GUTTER					
19+25.0	2.6	-	22+38.0	2.6	89.8
25+19.0	2.6	-	29+00.0	2.6	109.4
19+25.0	2.6	-	22+54.0	2.6	94.4
25+33.0	2.6	-	29+00.0	2.6	105.3
CORRUGATED MEDIAN					
15+00.0	4.0	-	23+06.0	4.0	358.2
24+78.0	4.0	-	25+25.0	4.0	20.9
=====					
TOTAL =					778

40600635 LEVELING BINDER (MACHINE METHOD), N70

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	TON

RATE = 112.0 POUND / SQ YD / INCH					
DEPTH = 1.0 INCH					
19+25.0	48.0	-	22+40.0	48.0	94.1
25+15.0	48.0	-	25+25.0	48.0	3.0
25+25.0	52.0	-	29+00.0	52.0	121.3
=====					
TOTAL =					218

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD

28+95.5	52.0	-	29+00.0	52.0	26.0
=====					
TOTAL =					26

40600985 PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD

19+25.0	24.0	-	19+55.0	24.0	80.0
19+25.0	24.0	-	19+55.0	24.0	80.0
=====					
TOTAL =					160

40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	TON

RATE = 112.0 POUND / SQ YD / INCH					
DEPTH = 1.5 INCH					
19+25.0	48.0	-	22+40.0	48.0	141.1
25+15.0	48.0	-	25+25.0	48.0	4.5
25+25.0	52.0	-	29+00.0	52.0	182.0
=====					
TOTAL =					328

42001420 BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD

22+39.2	26.0	-	22+45.2	26.0	17.3
22+40.2	26.0	-	22+46.2	26.0	17.3
25+08.7	26.0	-	25+14.7	26.0	17.3
25+09.5	26.0	-	25+15.5	26.0	17.3
=====					
TOTAL =					69

44000100 PAVEMENT REMOVAL

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD

22+39.2	26.0	-	22+45.2	26.0	17.3
22+40.2	26.0	-	22+46.2	26.0	17.3
25+08.7	26.0	-	25+14.7	26.0	17.3
25+09.5	26.0	-	25+15.5	26.0	17.3
=====					
SEE TEMPORARY PAVEMENT					379.1
TOTAL =					448

44000159 HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ YD

25+15.0	48.0	-	25+25.2	48.0	54.1
25+25.2	52.0	-	28+95.5	52.0	2,139.8
=====					
TOTAL =					2,194

44000500 COMBINATION CURB AND GUTTER REMOVAL

STATION	OFFSET(FT)	-	STATION	OFFSET(FT)	FOOT

19+25.0	26.5 LT	-	23+00.0	27.0 LT	375.0
24+73.0	27.0 LT	-	29+00.0	28.0 LT	427.0
19+25.0	26.0 RT	-	23+13.0	27.0 RT	388.0
24+84.0	27.0 RT	-	29+00.0	25.5 RT	416.0
=====					
TOTAL =					1,606

44000600 SIDEWALK REMOVAL

STATION	WIDTH(FT)	-	STATION	WIDTH(FT)	SQ FT

25+03.0	6.0	-	25+19.0	6.0	96.0
25+15.0	6.0	-	25+33.0	6.0	108.0
=====					
TOTAL =					204

SCHEDULE OF QUANTITIES

63100045 TRAFFIC BARRIER TERMINAL, TYPE 2

STATION			OFFSET(FT)	EACH
150+43.0	68.0	RT		1.0
TOTAL =				1

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6

STATION			OFFSET(FT)	EACH
22+37.0	33.5	RT		1.0
25+33.0	33.5	RT		1.0
22+20.0	33.5	LT		1.0
25+20.0	33.5	LT		1.0
TOTAL =				4

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

STATION			OFFSET(FT)	EACH
35+30.0	41.0	LT		1.0
TOTAL =				1

63100169 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED

STATION			OFFSET(FT)	EACH
14+70.0	39.5	RT		1.0
TOTAL =				1

63200310 GUARDRAIL REMOVAL

STATION	OFFSET(FT)	STATION	OFFSET(FT)	FOOT
149+30.3	68.0 RT	150+30.3	68.0 RT	100.0
150+43.0	68.0 RT	150+30.5	68.0 RT	12.5
22+37.0	33.5 RT	22+70.0	33.5 RT	33.0
25+33.0	33.5 RT	25+66.0	33.5 RT	33.0
22+20.0	33.5 LT	22+53.0	33.5 LT	33.0
25+20.0	33.5 LT	25+53.0	33.5 LT	33.0
14+70.0	39.5 RT	15+20.0	39.5 RT	50.0
34+80.0	41.0 LT	35+30.0	41.0 LT	50.0
TOTAL =				345

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

STATION	WIDTH(FT)	STATION	WIDTH(FT)	SQ FT
REFER TO "X7030025 WET REF TEM RAPE L&S" FOR QUAN				
				36.4
REFER TO "X7030030 WET REF TEM TAPE T3 4" FOR QUA				
				4,828.5
TOTAL =				4,865

70400100 TEMPORARY CONCRETE BARRIER

STATION	OFFSET(FT)	STATION	OFFSET(FT)	FOOT
STAGE I				
21+10.4	5.3 LT	22+00.0	3.1 RT	90.0
22+00.0	3.1 RT	26+00.0	3.1 RT	400.0
26+00.0	3.1 RT	26+99.6	5.3 LT	100.0
TOTAL =				590

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STATION	OFFSET(FT)	STATION	OFFSET(FT)	FOOT
STAGE II				
21+30.1	6.0 RT	22+00.0	2.3 RT	70.0
22+00.0	2.3 RT	26+00.0	2.3 RT	400.0
26+00.0	2.3 RT	27+19.7	6.0 LT	120.0
TOTAL =				590

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"

STATION	OFFSET(FT)	STATION	OFFSET(FT)	FOOT
SOUTH OF BRIDGE				
WHITE EDGE LINE				
19+25.0	26.0 LT	22+39.6	26.0 LT	314.6
19+25.0	26.0 RT	22+52.2	26.0 RT	327.2
YELLOW 4' WIDE MEDIAN				
19+25.0	2.0 LT	22+45.5	2.0 LT	320.5
19+25.0	2.0 RT	22+45.5	2.0 RT	320.5
WHITE SKIP DASH				
19+25.0	14.0 LT	22+42.5	14.0 LT	79.4
19+25.0	14.0 RT	22+42.5	14.0 RT	79.4
NORTH OF BRIDGE				
WHITE EDGE LINE				
25+03.0	25.8 LT	36+36.5	25.8 LT	1,133.5
37+45.2	25.8 LT	39+07.2	25.8 LT	162.0
39+07.2	25.8 LT	40+86.2	32.1 LT	179.1
40+86.2	32.1 LT	41+44.3	32.1 LT	58.1
25+03.0	25.8 RT	38+68.6	25.8 RT	1,365.6
YELLOW 4' WIDE MEDIAN				
25+03.0	2.2 LT	36+36.2	2.2 LT	1,133.2
37+45.2	2.2 LT	39+02.9	2.2 LT	157.7
39+02.9	2.2 LT	40+86.9	8.5 LT	184.1
40+86.9	8.5 LT	41+12.1	8.5 LT	25.2
41+12.1	8.5 LT	41+49.7	10.0 RT	47.3
25+03.0	1.3 LT	36+36.2	1.3 LT	1,133.2
37+45.2	1.3 LT	39+02.9	1.3 LT	157.7
39+02.9	1.3 LT	40+86.9	7.7 LT	184.1
40+86.9	7.7 LT	41+12.1	7.7 LT	25.2
41+12.1	7.7 LT	41+49.7	9.1 RT	44.4
25+03.0	2.2 RT	36+36.2	2.2 RT	1,133.2
37+45.2	2.2 RT	38+64.1	2.2 RT	118.9
38+64.1	2.2 RT	40+86.8	10.0 RT	222.9
40+86.8	10.0 RT	41+49.7	10.0 RT	62.8
25+03.0	1.3 RT	36+36.2	1.3 RT	1,133.2
37+45.2	1.3 RT	38+64.1	1.3 RT	118.9
38+64.1	1.3 RT	40+86.9	1.3 RT	222.8
40+86.9	1.3 RT	41+49.7	1.3 RT	62.8
WHITE SKIP DASH				
25+03.0	14.0 LT	36+36.4	14.0 LT	283.4
37+45.2	14.0 LT	39+07.4	14.0 LT	40.6
39+07.4	14.0 LT	40+86.6	20.3 LT	44.8
40+86.6	20.3 LT	41+44.3	20.3 LT	14.4
25+03.0	14.0 RT	38+68.6	14.0 RT	341.4
TOTAL =				11,232

78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"

STATION	OFFSET(FT)	STATION	OFFSET(FT)	FOOT
YELLOW DIAGONAL				
39+00.0	0.0 RT			5.0
39+75.0	0.0 RT			12.6
40+50.0	0.0 RT			20.0
41+25.0	0.0 RT			23.8
TOTAL =				61

78008200 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS

STATION	WIDTH(FT)	STATION	WIDTH(FT)	SQ FT
8+50.0 2.5 RT				
LEFT TURN PAVEMENT MARKING - "ONLY"				20.8
LEFT TURN PAVEMENT MARKING - "ARROW"				15.6
TOTAL =				36

78008210 POLYUREA PAVEMENT MARKING TYPE I - LINE 4"

STATION	OFFSET(FT)	STATION	OFFSET(FT)	FOOT
SOUTH OF BRIDGE AND BRIDGE DECK				
WHITE EDGE LINE				
3+08.8	30.8 LT	9+40.8	30.8 LT	632.0
10+20.8	30.8 LT	11+83.2	30.8 LT	162.5
11+83.2	30.8 LT	13+94.1	25.9 LT	210.9
15+00.0	25.8 LT	19+25.0	25.8 LT	425.0
22+39.6	26.0 LT	25+03.3	26.0 LT	263.7
3+08.8	32.6 RT	9+40.9	32.6 RT	632.1
10+12.4	32.6 RT	11+80.0	32.6 RT	167.6
11+80.0	32.6 RT	14+00.0	25.8 RT	220.1
15+00.0	25.8 RT	19+25.0	25.8 RT	425.0
22+52.2	26.0 RT	25+14.9	26.0 RT	262.7
YELLOW MEDIAN				
3+08.8	8.0 LT	9+24.9	8.0 LT	616.1
9+89.5	8.0 LT	11+82.2	8.0 LT	192.7
11+82.2	8.0 LT	13+95.2	2.2 LT	213.0
15+00.0	2.2 LT	19+25.0	2.2 LT	425.0
22+46.0	2.2 LT	25+09.0	2.2 LT	263.0
3+08.8	9.2 RT	5+90.5	9.2 RT	281.7
5+90.5	9.2 RT	8+25.1	2.7 LT	234.9
8+25.1	2.7 LT	9+24.9	2.7 LT	99.8
9+89.5	8.0 LT	10+29.6	8.6 RT	43.4
10+29.6	8.6 RT	11+81.9	8.6 RT	152.3
11+81.9	8.6 RT	13+95.2	2.2 RT	213.4
15+00.0	2.2 RT	19+25.0	2.2 RT	425.0
22+46.0	2.2 RT	25+09.0	2.2 RT	263.0

WHITE SKIP DASH

3+08.8	19.0 LT	9+40.9	19.0 LT	158.0
10+02.6	19.0 LT	11+88.1	19.0 LT	46.4
11+88.1	19.0 LT	14+00.0	14.0 LT	53.0
15+00.0	14.0 LT	19+25.0	14.0 LT	106.3
22+43.7	0.0 RT	25+05.9	14.0 LT	65.8
3+08.8	21.0 RT	19+25.0	14.0 RT	404.1
22+49.3	14.0 RT	25+12.2	14.0 RT	65.8
TOTAL =				7,724

78008230 POLYUREA PAVEMENT MARKING TYPE I - LINE 6"

STATION	OFFSET(FT)	STATION	OFFSET(FT)	FOOT
SOUTH OF BRIDGE AND BRIDGE DECK				
8+25.0	8.4 RT	9+35.0	8.4 RT	110.0
TOTAL =				110

78100100 RAISED REFLECTIVE PAVEMENT MARKER

STATION	OFFSET(FT)	STATION	OFFSET(FT)	EACH
ONE-WAY CRYSTAL MARKER - 2 MARKERS PLACED AT 80' O.C.				
19+25.0	14.0 LT	22+39.7	14.0 LT	8.0
19+25.0	14.0 RT	22+39.7	14.0 RT	8.0
25+15.1	14.0 LT	29+00.0	14.0 LT	10.0
25+15.1	14.0 RT	29+00.0	14.0 RT	10.0

TWO-WAY AMBER MARKER - 1 MARKER PLACED AT 40' O.C.

19+25.0	2.0 LT	22+39.7	2.0 LT	8.0
19+25.0	2.0 RT	22+39.7	2.0 RT	8.0
25+15.1	2.0 LT	29+00.0	2.0 LT	10.0
25+15.1	2.0 RT	29+00.0	2.0 RT	10.0
TOTAL =				72

78100105 RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

STATION	OFFSET(FT)	STATION	OFFSET(FT)	EACH
ONE-WAY CRYSTAL MARKER - 2 MARKERS PLACED AT 80' O.C.				
22+46.0	14.0 LT	25+09.0	14.0 LT	8.0
22+46.0	14.0 RT	25+09.0	14.0 RT	8.0
TOTAL =				16

78300100 PAVEMENT MARKING REMOVAL

STATION	WIDTH(FT)	STATION	WIDTH(FT)	SQ FT
REFER TO "78000200 THPL PVT MK LINE 4" FOR QUANTI				
				3,744.0
REFER TO "78000600 THPL PVT MK LINE 12" FOR QUANT				
				61.4
REFER TO "78008200 POLYUREA PM T1 LTR-SY" FOR QUA				
				36.4
REFER TO "78008210 POLYUREA PM T1 LN 4" FOR QUANT				
				2,574.7
REFER TO "78008230 POLYUREA PM T1 LN 6" FOR QUANT				
				55.0
TOTAL =				6,472

X6060500 CORRUGATED MEDIAN REMOVAL

STATION	WIDTH(FT)	STATION	WIDTH(FT)	SQ FT
15+00.0	4.0	23+06.0	4.0	3,224.0
24+78.0	4.0	25+25.0	4.0	188.0
TOTAL =				3,412

X6640304 CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED

STATION	OFFSET(FT)	STATION	OFFSET(FT)	FOOT
22+50.0	35.0 LT	22+72.0	58.2 LT	32.0
22+70.0	35.5 RT	22+79.0	74.5 RT	40.0
25+07.0	79.0 LT	25+19.0	32.5 LT	48.0
25+31.0	34.0 RT	25+39.0	65.0 RT	32.0
TOTAL =				152

X7030025 WET REFLECTIVE TEMPORARY TAPE LETTERS AND SYMBOLS

STATION	WIDTH(FT)	STATION	WIDTH(FT)	SQ FT
AT 163RD STREET				
LEFT TURN PAVEMENT MARKING - "ONLY"				20.8
LEFT TURN PAVEMENT MARKING - "ARROW"				15.6
TOTAL =				36

FILE NAME = G:\proj\sect\2102155_004\CADD\Civil\Sheet\0160663-051111-schedule.dgn



USER NAME = 2PIENID
PLOT SCALE = 50.00' / IN.
PLOT DATE = 8/17/2011

DESIGNED - DJB
DRAWN - ENTRAN
CHECKED - TMH
DATE - 06/15/11

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
SCHEDULE OF QUANTITIES

SCALE: 50.00' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	7</

SCHEDULE OF QUANTITIES

X7030030 WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH

STATION OFFSET(FT) - STATION OFFSET(FT) FOOT

STAGE I
YELLOW

SHEET #MOT01 - TOP PANE

3+10.0	9.0 RT	-	5+00.0	13.0 RT	190.0
5+00.0	13.0 RT	-	6+00.0	8.5 RT	100.1
6+70.0	16.5 RT	-	8+50.0	20.0 RT	180.0
8+50.0	20.0 RT	-	9+45.0	20.0 RT	95.0
6+70.0	16.5 RT	-	8+35.0	8.5 RT	165.2
8+35.0	8.5 RT	-	9+45.0	8.5 RT	110.0
9+45.0	8.5 RT	-	9+45.0	20.0 RT	18.0
9+90.0	7.5 LT	-	12+00.0	7.5 LT	210.0
9+90.0	7.5 LT	-	10+50.0	20.0 RT	66.0
10+50.0	20.0 RT	-	11+80.0	20.0 RT	130.0
11+80.0	20.0 RT	-	12+00.0	20.0 RT	20.0

SHEET #MOT01 - BOTTOM PANE

12+00.0	7.5 LT	-	13+90.0	2.0 LT	190.1
12+00.0	20.0 RT	-	13+86.0	14.0 RT	186.1
13+86.0	14.0 RT	-	13+90.0	2.0 LT	22.0
15+00.0	2.0 LT	-	21+65.0	15.8 RT	665.2
15+00.0	2.0 LT	-	15+30.0	14.0 RT	34.0
15+30.0	14.0 RT	-	21+65.0	15.8 RT	635.0
21+65.0	15.8 RT	-	24+00.0	15.8 RT	235.0

SHEET #MOT02 - TOP PANE

24+00.0	15.8 RT	-	26+90.0	15.8 RT	290.0
26+90.0	14.5 RT	-	31+40.0	2.0 LT	450.3
31+40.0	2.0 LT	-	35+00.0	2.0 LT	360.0
26+90.0	14.5 RT	-	35+00.0	14.0 RT	810.0

SHEET #MOT02 - BOTTOM PANE

35+00.0	2.0 LT	-	36+60.0	2.0 LT	160.0
35+00.0	14.0 RT	-	36+30.0	14.0 RT	130.0
36+30.0	14.0 RT	-	36+60.0	2.0 LT	34.0

WHITE

SHEET #MOT01 - BOTTOM PANE

19+30.0	14.0 LT	-	22+00.0	4.0 RT	270.6
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SHEET #MOT02 - TOP PANE

26+00.0	4.0 RT	-	31+40.0	14.0 LT	540.3
31+40.0	14.0 LT	-	35+00.0	14.0 LT	360.0

SHEET #MOT02 - BOTTOM PANE

35+00.0	14.0 LT	-	36+30.0	14.0 LT	130.0
36+30.0	14.0 LT	-	36+62.0	40.0 LT	41.2
37+25.0	43.0 LT	-	37+55.0	15.0 LT	41.0
37+55.0	15.0 LT	-	41+90.0	26.0 LT	435.1

STAGE II

YELLOW

SHEET #MOT03 - TOP PANE

11+20.0	8.0 RT	-	12+00.0	8.0 RT	80.0
11+20.0	20.0 LT	-	12+00.0	20.0 LT	80.0

SHEET #MOT03 - BOTTOM PANE

12+00.0	20.0 LT	-	13+80.0	14.0 LT	180.1
12+00.0	8.0 RT	-	13+96.0	2.0 RT	196.1
13+80.0	14.0 LT	-	13+96.0	2.0 RT	27.0
15+00.0	2.0 RT	-	16+60.0	2.0 RT	160.0
16+60.0	2.0 RT	-	22+00.0	14.8 LT	540.3
15+00.0	2.0 LT	-	15+35.0	14.0 LT	37.0
15+35.0	14.0 LT	-	22+00.0	14.8 LT	665.0
22+00.0	14.8 LT	-	24+00.0	14.8 LT	200.0

SHEET #MOT04 - TOP PANE

24+00.0	14.8 LT	-	26+00.0	14.8 LT	200.0
26+00.0	14.8 LT	-	31+00.0	14.0 LT	500.0
31+00.0	14.0 LT	-	35+00.0	14.0 LT	400.0
26+00.0	14.0 LT	-	35+00.0	4.6 LT	900.0

SHEET #MOT04 - BOTTOM PANE

35+00.0	14.0 LT	-	36+80.0	14.0 LT	180.0
35+00.0	4.6 LT	-	36+50.0	3.0 LT	150.0
36+50.0	3.0 LT	-	36+80.0	14.0 LT	31.0
37+45.0	12.0 LT	-	41+90.0	8.0 LT	445.0
37+45.0	12.0 LT	-	37+62.0	0.0 RT	20.8
37+62.0	0.0 RT	-	41+55.0	10.0 RT	393.1

X7030030 WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH (CONT)

WHITE

SHEET #MOT03 - TOP PANE

5+80.0	32.0 RT	-	9+52.0	24.0 RT	372.1
10+25.0	22.0 RT	-	11+20.0	20.0 RT	95.0
11+20.0	20.0 RT	-	12+00.0	20.0 RT	80.0

SHEET #MOT03 - BOTTOM PANE

12+00.0	20.0 RT	-	13+75.0	14.0 RT	175.1
13+75.0	14.0 RT	-	13+95.0	14.0 RT	20.0
13+95.0	14.0 RT	-	14+25.0	45.0 RT	43.1
14+70.0	45.0 RT	-	15+10.0	14.0 RT	50.6
15+10.0	14.0 RT	-	16+60.0	14.0 RT	150.0
16+60.0	14.0 RT	-	22+00.0	3.0 LT	540.3

SHEET #MOT04 - TOP PANE

26+00.0	4.0 LT	-	28+69.0	14.0 RT	269.6
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=====

TOTAL = 14.485

Z0030280 IMPACT ATTENUATORS, TEMPORARY (SEVERE USE,NARROW),
TEST LEVEL 3

STATION OFFSET(FT) EACH

STAGE I

21+12.0	5.0 LT	1.0
27+00.0	6.0 LT	1.0

=====

TOTAL = 2

Z0030360 IMPACT ATTENUATORS, RELOCATE (SEVERE USE),
TEST LEVEL 3

STATION OFFSET(FT) EACH

STAGE II

21+29.0	6.0 RT	1.0
27+06.0	7.0 RT	1.0

=====

TOTAL = 2

Z0062456 TEMPORARY PAVEMENT

STATION WIDTH(FT) - STATION WIDTH(FT) SQ YD

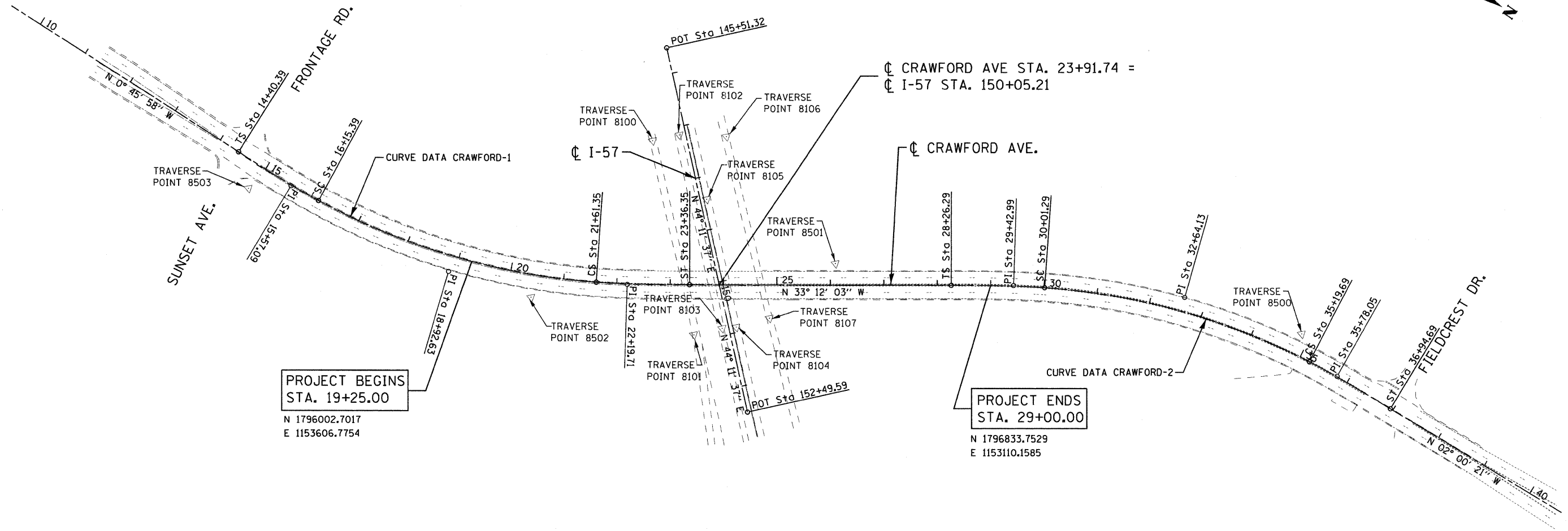
CORRUGATED MEDIAN

15+00.0	4.0	-	23+06.0	4.0	358.2
24+78.0	4.0	-	25+25.0	4.0	20.9

=====

TOTAL = 379

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N 1796002.7017
E 1153606.7754

PROJECT ENDS
STA. 29+00.00
N 1796833.7529
E 1153110.1585

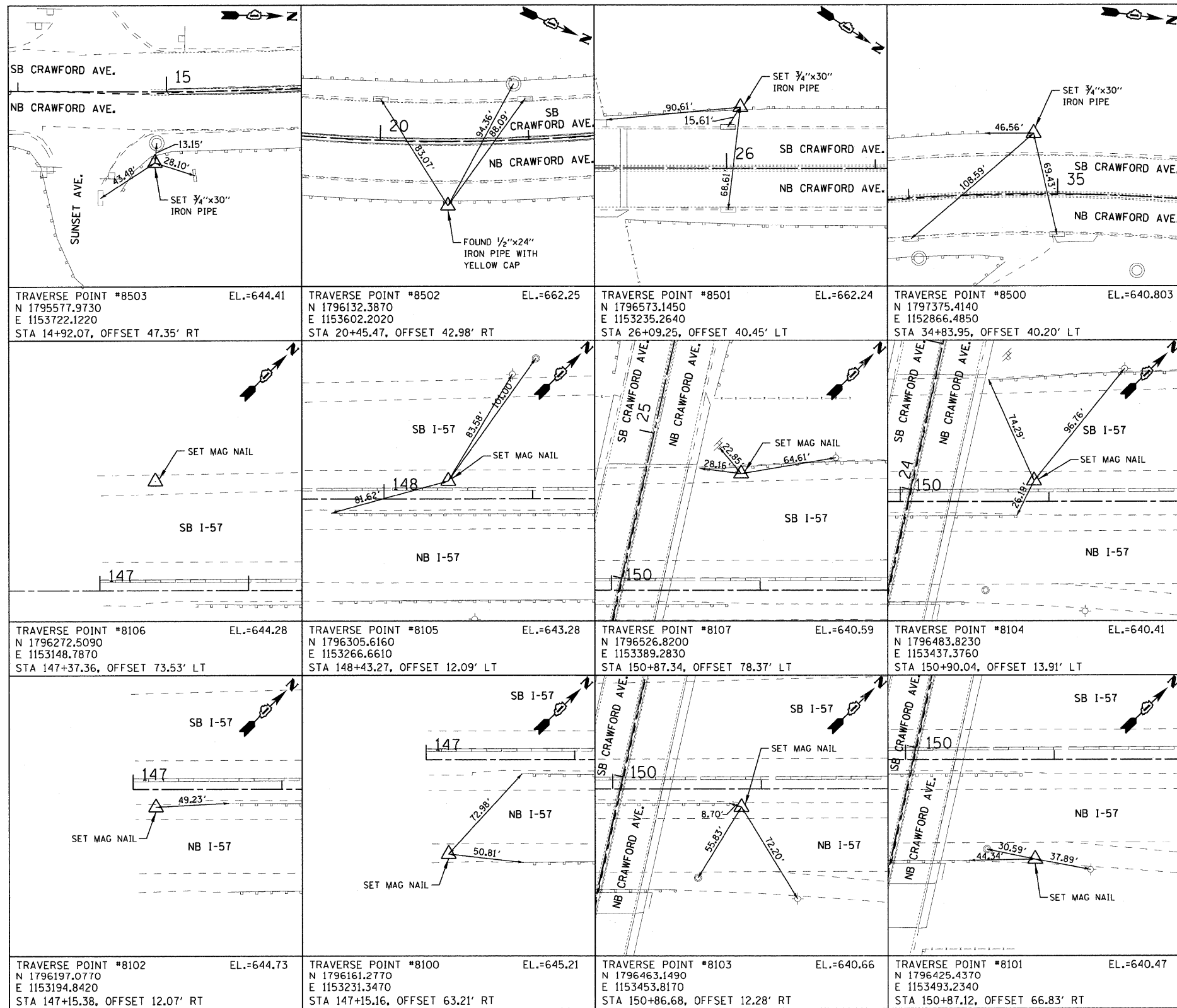
CURVE DATA CRAWFORD-1
 $\Delta = 32^\circ 26' 05.57''$ (LT)
 $L_s = 175.00'$
 $T_s = 458.2043'$
 $E_s = 54.138'$
 $\theta_s = 03^\circ 56' 11.32''$ (LT)
 $X_c = 174.9174'$
 $Y_c = 4.0064'$
 $\Delta_c = 24^\circ 39' 18''$
 $D = 04^\circ 29' 55.80''$
 $L_c = 174.9633'$
 $R = 1,273.57'$
 $S = 0.06''/'$

CURVE DATA CRAWFORD-2
 $\Delta = 31^\circ 11' 42.09''$ (LT)
 $L_s = 175.00'$
 $T_s = 443.2934'$
 $E_s = 50.25'$
 $\theta_s = 03^\circ 56' 11.32''$ (RT)
 $X_c = 174.9174'$
 $Y_c = 4.0064'$
 $\Delta_c = 23^\circ 28' 48''$
 $D = 04^\circ 29' 55.80''$
 $L_c = 174.9633'$
 $R = 1,273.57'$
 $S = 0.06''/'$

POINT	STATIONING	NORTHING	EASTING
TS	14+40.39	1795525.3882	1153675.5757
PI	15+57.09	1795642.0733	1153674.0154
SC	16+15.39	1795700.2364	1153669.2309
PI	18+92.63	1795976.5431	1153646.5019
SCS PI	18+98.60	1795983.5516	1153669.4493
CS	21+61.35	1796218.3995	1153510.9754
PI	22+19.71	1796269.3108	1153482.4468
ST	23+36.35	1796366.9564	1153418.5470
TS	28+26.29	1796776.9129	1153150.2690
PI	29+42.99	1796874.5585	1153086.3692
SC	30+01.29	1796925.4698	1153057.8406
PI	32+64.13	1797154.7646	1152929.3531
SCS PI	32+69.58	1797147.8410	1152907.5315
CS	35+19.69	1797416.1927	1152902.1415
PI	35+78.05	1797474.2387	1152896.0996
ST	36+94.69	1797590.8627	1152892.0149
POT	146+00.00	1796122.7688	1153105.7534
POT	150+05.21	1796413.3007	1153388.2190
POT	152+49.59	1796588.5161	1153558.5697

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FILE NAME = G:\projects\2102155_00A\LA001\G:\1\SH\1\160863-07.dwg



TRAVERSE CONTROL POINTS
NOT TO SCALE

BENCHMARK

BM-1 SET CUT CROSS IN SIDEWALK SOUTH I-57 (TELEGRAPH ST.) AND WEST OF CRAWFORD AVE. APPROX. STA. ±15+25.00, OFFSET ±50.00' RT. ELEV. = 645.29

NOTE:
VERTICAL AND HORIZONTAL CONTROL
NAVD 1988 DATUM PER GPS TOPCON PSC Net

PAVT MARKING REMOVAL
REFER TO SCHEDULE OF
QUANTITIES FOR LIMITS

PROJECT BEGINS
STA. 19+25.00

CL CRAWFORD AVE. STA. 23+91.74 =
CL I-57 STA. 150+05.21

PROJECT ENDS
STA. 29+00.00

CL CRAWFORD AVE.

PAVT MARKING REMOVAL
REFER TO SCHEDULE OF
QUANTITIES FOR LIMITS

EXISTING GUARDRAIL
(TYP.)

TEMP PAVEMENT
REFER TO SCHEDULE
OF QUANTITIES FOR LIMITS

CORRUGATED MED REM
REFER TO SCHEDULE OF
QUANTITIES FOR LIMITS

EXISTING OVERHEAD SIGN (NB2) TO BE TEMPORARILY GROUND MOUNTED ON WOOD POSTS
BEHIND THE EXISTING GUARDRAIL AT APPROXIMATELY STATION 149+00.
FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

APPROXIMATE LIMITS OF CLASS B PATCHES. FINAL LOCATIONS
TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

EXISTING OVERHEAD SIGN (SB1) TO BE TEMPORARILY GROUND MOUNTED ON WOOD POSTS
BEHIND THE EXISTING GUARDRAIL AT APPROXIMATELY STATION 151+00.
FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

EXISTING

CL CRAWFORD AVE. STA. 23+91.74 =
CL I-57 STA. 150+05.21

PROJECT ENDS
STA. 29+00.00

CL CRAWFORD AVE.

CORRUGATED MED
REFER TO SCHEDULE
OF QUANTITIES FOR LIMITS

PROJECT BEGINS
STA. 19+25.00

HMA SC "D" N70, 1.5
LEV BIND MM N70, 1
BIT MATLS PR CT
AGG PR CT

BR APPR PVT CON (PCC)

TY B INLET BOX 609006
TRAF BAR TERM T6

CH LK FENCE REM & RE
(TYP EACH CORNER)

TRAF BAR TERM T2

CONC THRUST BLOCKS
END SECTIONS 12
PIPE DRAINS 12 (TYP)

COMB CC&G TB6.12
SUB GRAN MAT B, 6

TRAF BAR TERM T6
SEE DISTRICT 1 DETAIL
BM-22 (TYP.)

BR APPR PVT CON (PCC)

TY B INLET BOX 609006
TRAF BAR TERM T6

CH LK FENCE REM & RE
(TYP EACH CORNER)

TRAF BAR TERM T2

CH LK FENCE
REM & RE

TRAF BAR TERM T6

BR APPR PVT CON (PCC)

COMB CC&G TB6.12
SUB GRAN MAT B, 6

TRAF BAR TERM T6

TRAF BAR TERM T6

TRAF BAR TERM T6

TRAF BAR TERM T6

TRAF BAR TERM T6

TRAF BAR TERM T6

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TRAF BAR TERM T6

TRAF BAR TERM T6

TRAF BAR TERM T6

A TEN FOOT TRANSITION SHALL BE USED TO MATCH
THE PROPOSED ROADWAY CORRUGATED MEDIAN TO
THE PROPOSED BRIDGE MEDIAN. THIS SHALL BE
INCLUDED IN THE PAY ITEM, CORRUGATED MEDIAN.

SEE SCHEDULE OF QUANTITIES AND ROADWAY DETAIL - TYPE 1 TERMINALS FOR LOCATIONS
OF TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL. TRANSITION HORIZONTAL LOCATION AND
VERTICAL HEIGHT OF THE PROPOSED TBT-TY 1 SPL TO MEET EXISTING GUARDRAIL
CONDITIONS. THIS WORK IS INCLUDED WITH THE PAY ITEM TRAFFIC BARRIER TERMINAL
TYPE 1, SPECIAL.

PROPOSED

ENTRAN

USER NAME = 2PIENID

DESIGNED - DJB

REVISED -

PLOT SCALE = 50.00' / IN.

DRAWN - ENTRAN

REVISED -

PLOT DATE = 8/17/2011

CHECKED - TMH

REVISED -

DATE - 06/15/11

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
EXISTING AND PROPOSED ROADWAY PLAN

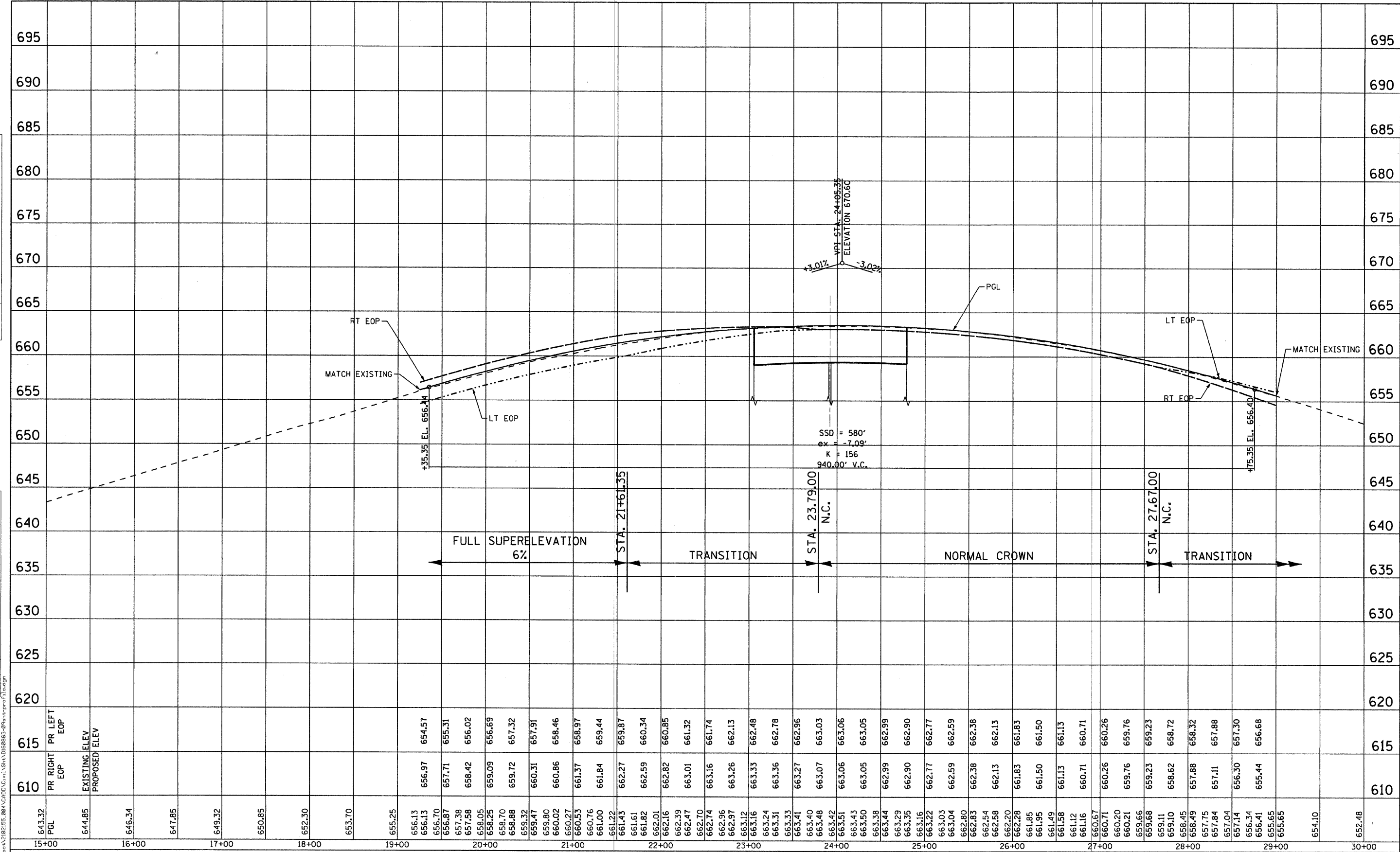
SCALE: 50.00' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	11
CONTRACT NO. 60863				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

PLAN	DATE
	BY
	REVISION
	NO.
NO.	NO.
	NO.
	NO.
	NO.

PROFILE	DATE
	BY
	REVISION
	NO.
NO.	NO.
	NO.
	NO.
	NO.



ELEVATIONS GIVEN EVERY 25 FT		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE) EXISTING AND PROPOSED PROFILE		F.A.I. RT. 57		SECTION 1112.JB		COUNTY COOK		TOTAL SHEETS 75		SHEET NO. 12	
SCALE: 50.00' / IN.		SHEET NO.		OF		SHEETS		STA.		TO STA.		CONTRACT NO. 0863		ILLINOIS FED. AID PROJECT	



USER NAME = 2PIENID	DESIGNED -	REVISED -
PLOT SCALE = 50.00' / IN.	DRAWN -	REVISED -
PLOT DATE = 9/17/2011	CHECKED -	REVISED -
	DATE -	REVISED -

GENERAL NOTES - TRAFFIC CONTROL

MAINTENANCE OF TRAFFIC DEVICES TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF STANDARDS 701606 AND 701431 AND DISTRICT ONE STANDARDS TC-11 AND TC-13. ADDITIONAL SIGNAGE MAY BE REQUIRED BY THE RESIDENT ENGINEER AT NO ADDITIONAL COST. THIS WORK AND SIGNAGE IS INCLUDED IN THE PAY ITEM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

THE MAINTENANCE OF TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF THE PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER IN WRITING FOR APPROVAL.

THE RESIDENT ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MOT PLANS.

EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL.

REMOVAL OF THE TEMPORARY PAVEMENT MARKINGS SHALL BE PAID FOR UNDER THE PAY ITEM WORK ZONE PAVEMENT MARKING REMOVAL.

THE EXISTING PAVEMENT MARKINGS THAT HAVE BEEN REMOVED SHALL BE REPLACED IN-KIND.

THE CONTRACTOR SHALL NOT MOUNT SIGNS ON EXISTING SIGNS.

THE CONTRACTOR SHALL PLACE AN ARTERIAL ROAD INFORMATION SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACE TWO WEEKS BEFORE THE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PER SQUARE FOOT, TEMPORARY INFORMATION SIGNING.

THE CONTRACTOR SHALL COORDINATE THE EXACT PLACEMENT OF ADVANCED WARNING SIGNAGE WITH THE RESIDENT ENGINEER.

THE REMOVAL OF TEMPORARY PAVEMENT PROVIDED IN THE MEDIAN CROSS OVER SHALL BE PAID FOR AS PAVEMENT REMOVAL.

SUGGESTED CONSTRUCTION SEQUENCING FOR CRAWFORD AVENUE

PRE-STAGE

PERFORM PATCHING OPERATIONS. REMOVE CORRUGATED CONCRETE MEDIAN AND INSTALL TEMPORARY PAVEMENT FOR THE CROSSOVER BETWEEN STATION 15+00 TO 22+00. PERFORM THIS WORK USING STANDARD 701606. TRAFFIC CONTROL TO BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, STANDARD 701606.

STAGE 1

REMOVE AND REPLACE DECK, VAULTED SPAN, ABUTMENT BACKWALLS, AND ABUTMENT BEARINGS. REMOVE APPROACH PAVEMENTS AND REPLACE WITH APPROACH SLABS. REMOVE TOP OF EXISTING RETAINING WALLS AND SIDEWALKS AT NORTH ABUTMENT. REMOVE EXISTING CURB AND GUTTER AND GUARDRAIL. INSTALL PROPOSED CURB AND GUTTER AND GUARDRAIL. TRAFFIC CONTROL TO BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, SPECIAL.

STAGE 2

REMOVE AND REPLACE DECK, VAULTED SPAN, ABUTMENT BACKWALLS, AND ABUTMENT BEARINGS. REMOVE APPROACH PAVEMENTS AND REPLACE WITH APPROACH SLABS. REMOVE TOP OF EXISTING RETAINING WALLS AND SIDEWALKS AT NORTH ABUTMENT. REMOVE EXISTING CURB AND GUTTER AND GUARDRAIL. INSTALL PROPOSED CURB AND GUTTER AND GUARDRAIL. TRAFFIC CONTROL TO BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, SPECIAL.

STAGE 3

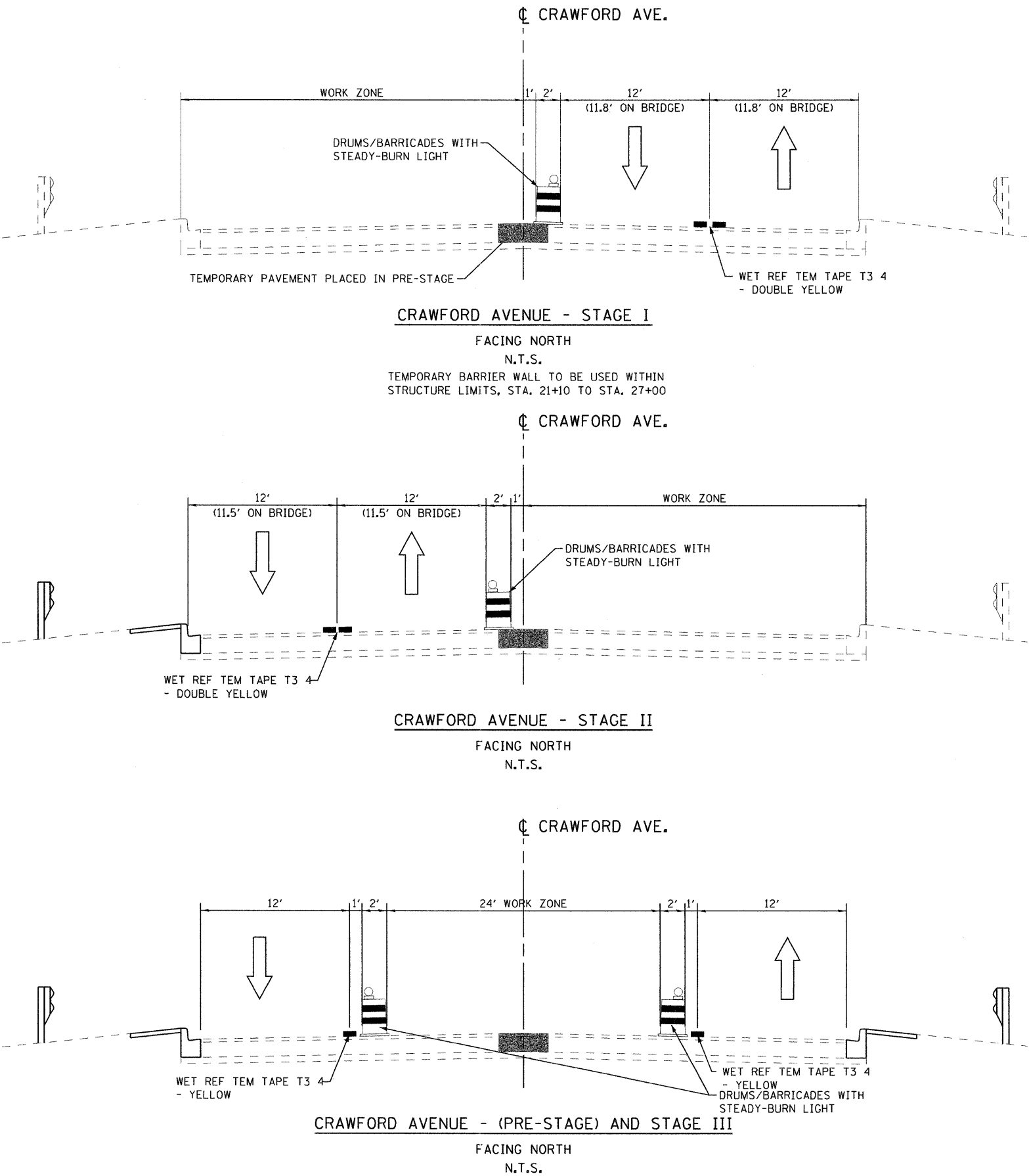
REMOVE TEMPORARY PAVEMENT AND INSTALL CORRUGATED CONCRETE MEDIAN. TRAFFIC CONTROL TO BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, STANDARD 701606.

STAGE 4

PLACE LEVELING BINDER AND SURFACE COURSE AND FINAL PAVEMENT MARKINGS UTILIZING HIGHWAY STANDARDS 701421 AND 701311. TRAFFIC CONTROL TO BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, STANDARD 701421.

WORK TO BE CONSTRUCTED ON I-57

REMOVE EXISTING BRIDGE MOUNTED SIGNS AND UNDERPASS LIGHTING. REMOVE EXISTING PROTECTIVE SHIELD. INSTALL PROPOSED BRIDGE MOUNTED SIGNS AND UNDERPASS LIGHTING. PERFORM SLOPEWALL REPAIRS AND STRUCTURAL REPAIR OF CONCRETE ON ABUTMENTS AND PIERS UTILIZING HIGHWAY STANDARDS 701101, 701400, AND 701406 AND DISTRICT ONE DETAILS TC-17 AND TC-25 ON IL ROUTE 57. ALL CONSTRUCTION STAGING NEEDED TO PERFORM THE WORK AS OUTLINED IN THE PLANS AND BY THE ENGINEER SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS).



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PLOT DATE = 8/17/2011

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DRAWN - ENTRAN
CHECKED - TMH
DATE - 06/15/11

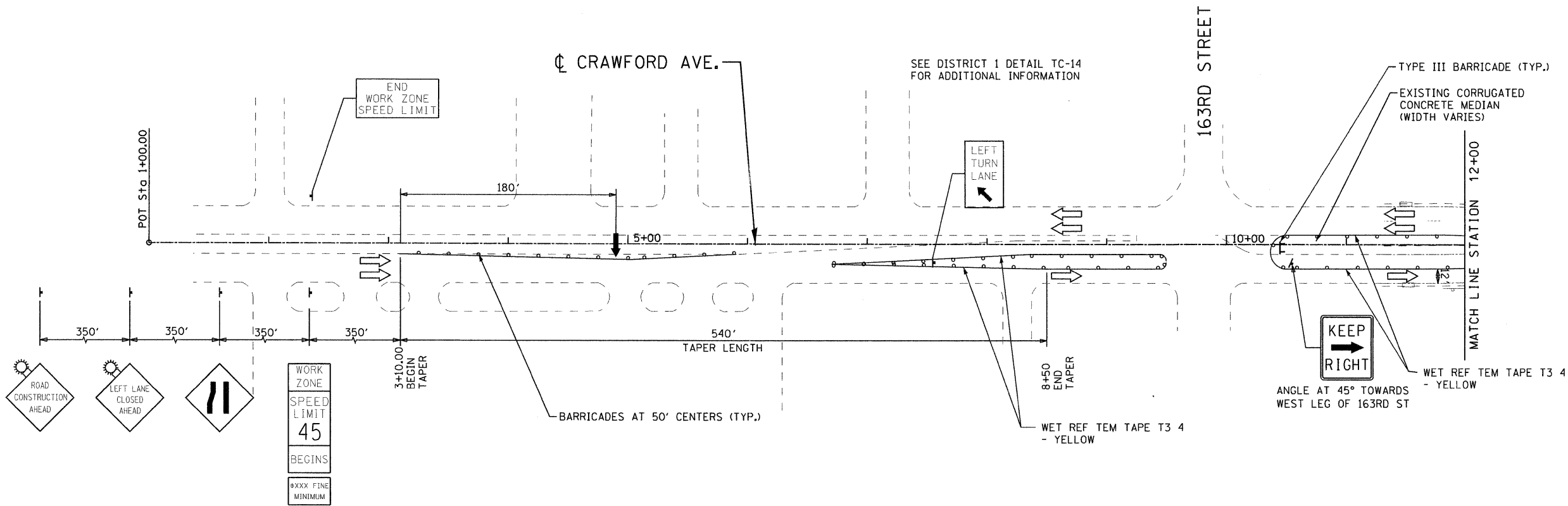
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

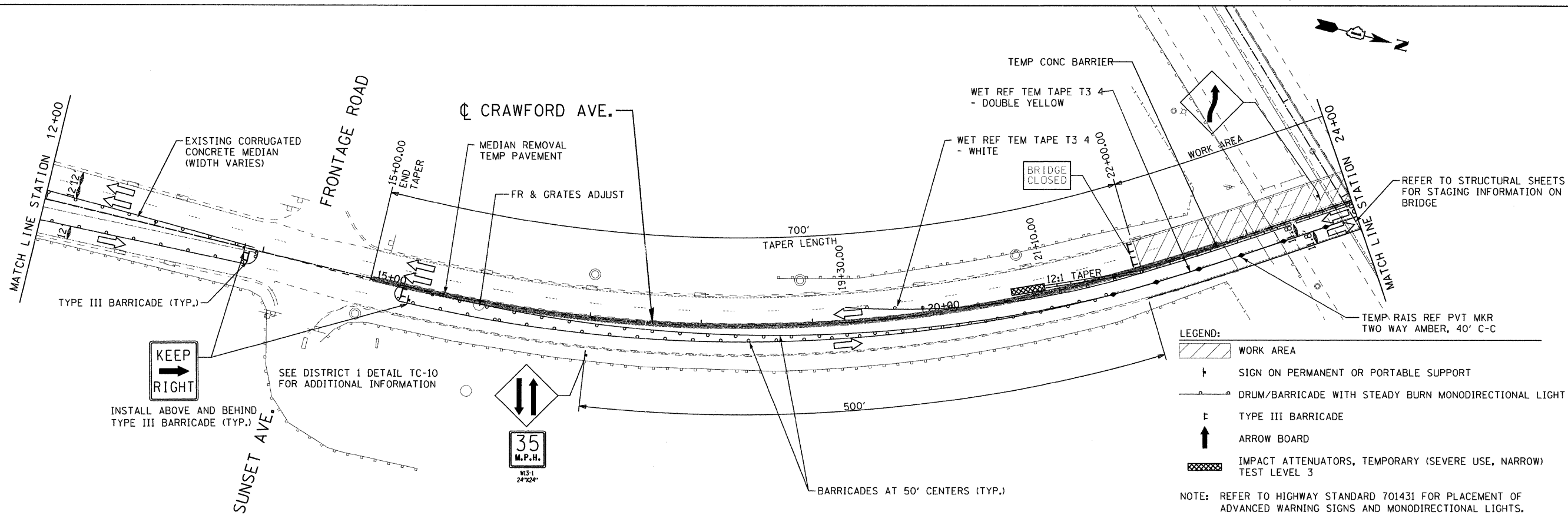
FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
MOT - GENERAL NOTES & TYPICAL SECTIONS

SCALE: 50.000' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	13
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



STAGE 1



- LEGEND:
- WORK AREA
 - SIGN ON PERMANENT OR PORTABLE SUPPORT
 - DRUM/BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE III BARRICADE
 - ARROW BOARD
 - IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW) TEST LEVEL 3

NOTE: REFER TO HIGHWAY STANDARD 701431 FOR PLACEMENT OF ADVANCED WARNING SIGNS AND MONODIRECTIONAL LIGHTS.

COORDINATE FINAL PLACEMENT OF ADVANCE WARNING SIGNS WITH THE ENGINEER.

STAGE 1

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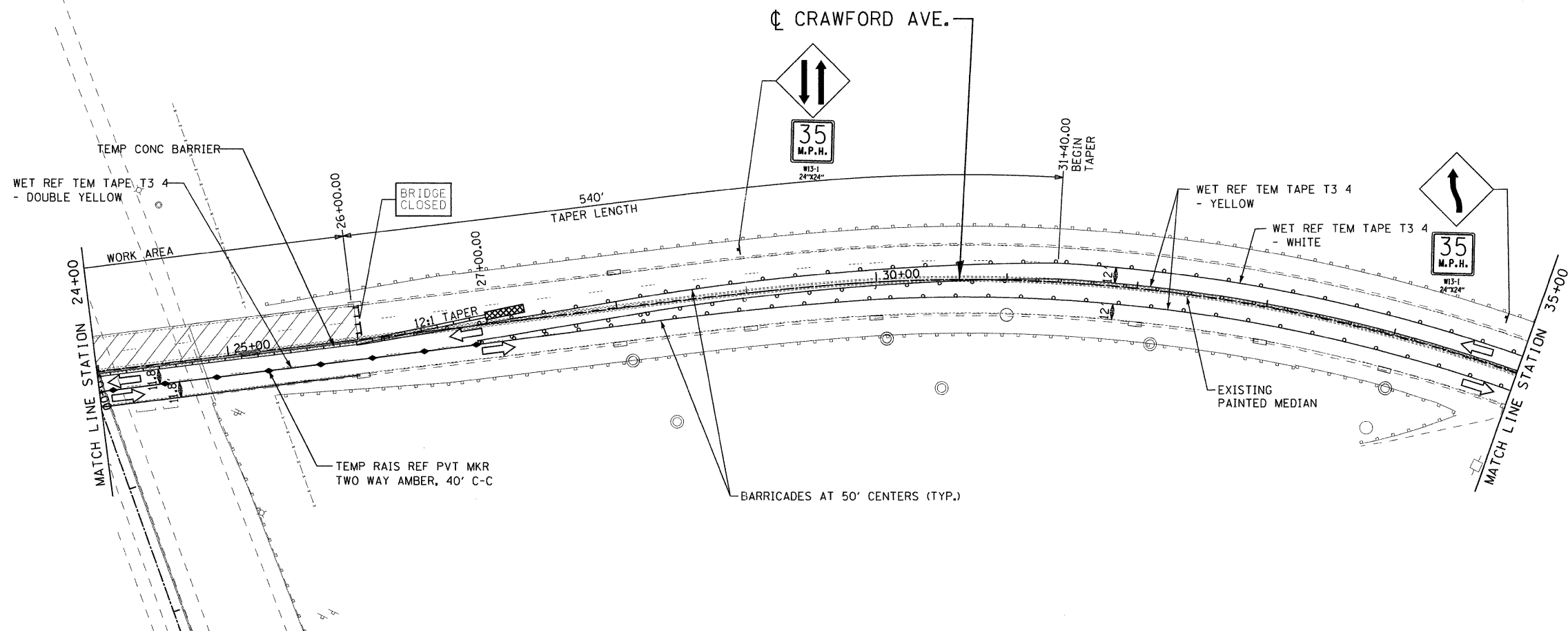
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	DRAWN - ENTRAN	REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED - TMH	REVISED -
PLOT DATE = 8/17/2011	DATE - 06/15/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

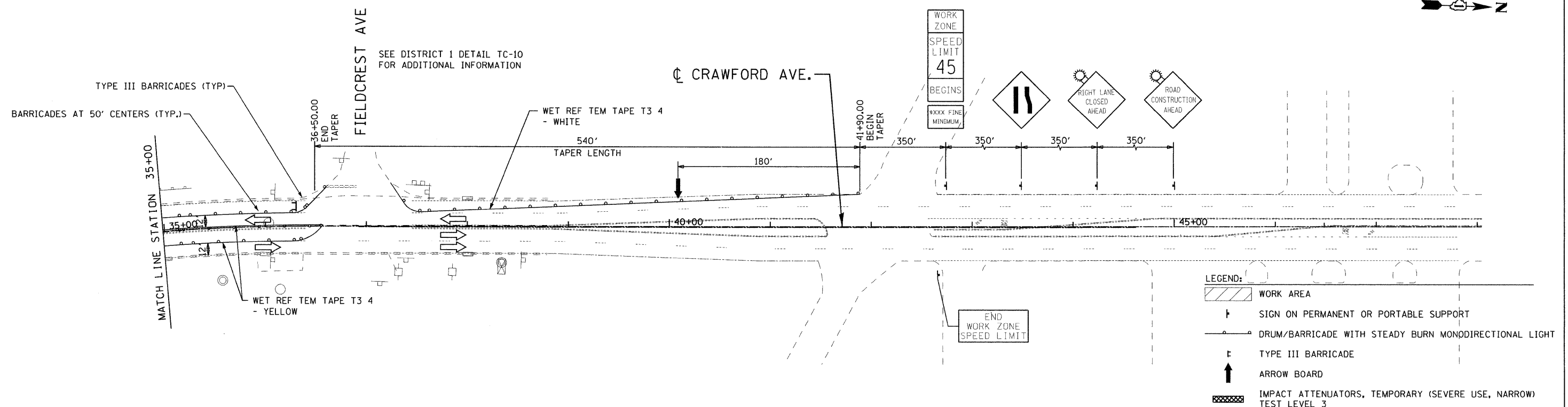
FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
MAINTENANCE OF TRAFFIC - STAGE 1

SCALE: 50.0000' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	14
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



STAGE 1



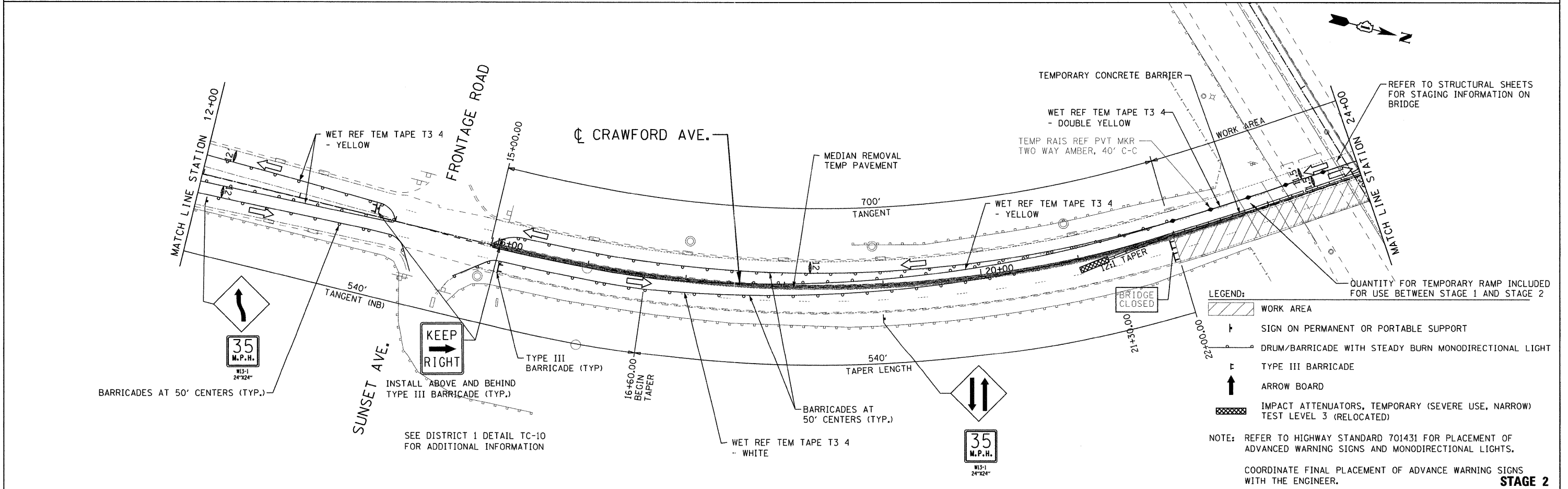
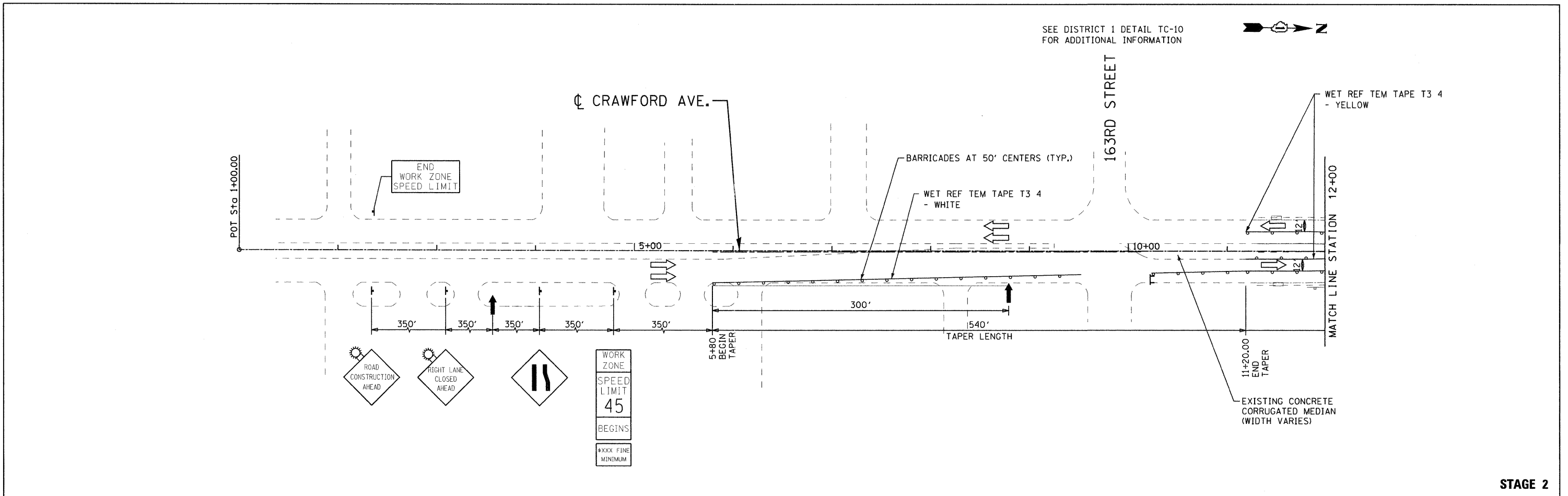
NOTE: REFER TO HIGHWAY STANDARD 701431 FOR PLACEMENT OF ADVANCED WARNING SIGNS AND MONODIRECTIONAL LIGHTS.

COORDINATE FINAL PLACEMENT OF ADVANCE WARNING SIGNS WITH THE ENGINEER. **STAGE 1**

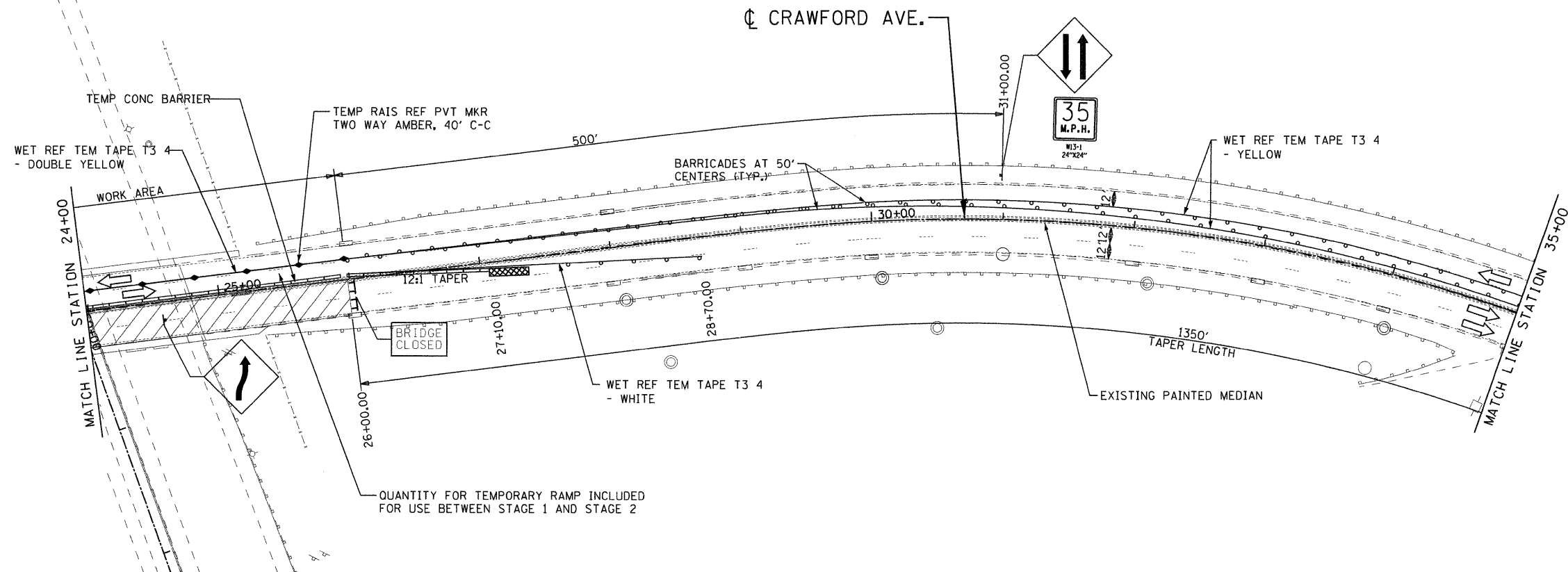
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	PLOT SCALE = 50.00' / IN.	DRAWN - ENTRAN	REVISED -				57	1112.1B	COOK	75	15
	PLOT DATE = 8/17/2011	CHECKED - TMH	REVISED -				CONTRACT NO. 60863				
	DATE - 06/15/11	DATE -	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

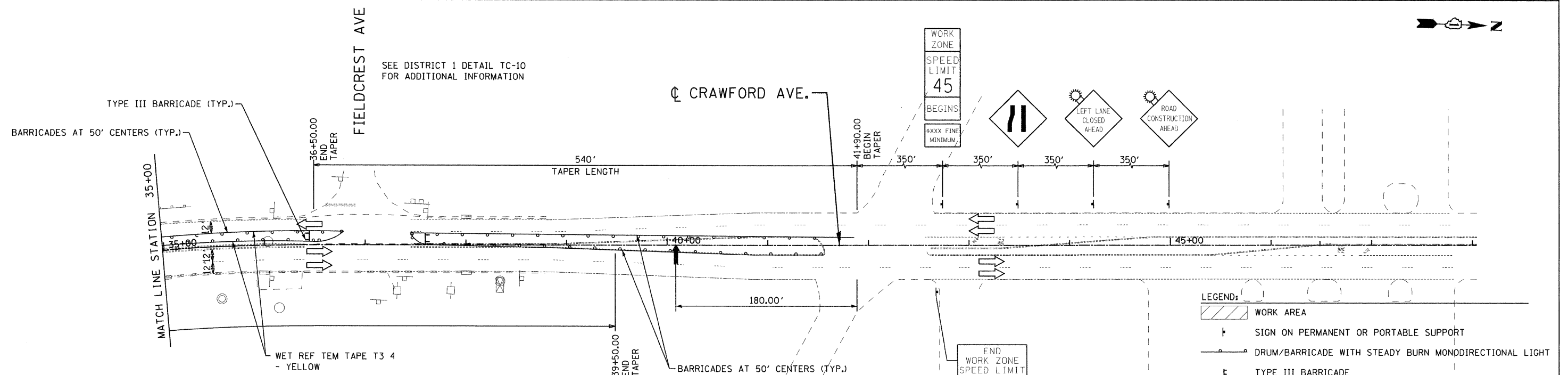
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	USER NAME = 2PIENID		DESIGNED - DJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.00' / IN.		DRAWN - ENTRAN	REVISED -		MAINTENANCE OF TRAFFIC - STAGE 2		57	1112.1B	COOK	75	16
	PLOT DATE = 8/17/2011		CHECKED - TMH	REVISED -		SCALE: 50.00' / IN. SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60863				
			DATE - 06/15/11	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



STAGE 2



- LEGEND:
- WORK AREA
 - SIGN ON PERMANENT OR PORTABLE SUPPORT
 - DRUM/BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE III BARRICADE
 - ARROW BOARD
 - IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW) TEST LEVEL 3 (RELOCATED)

NOTE: REFER TO HIGHWAY STANDARD 701431 FOR PLACEMENT OF ADVANCED WARNING SIGNS AND MONODIRECTIONAL LIGHTS.

COORDINATE FINAL PLACEMENT OF ADVANCE WARNING SIGNS WITH THE ENGINEER.

STAGE 2



USER NAME = 2PIENTD	DESIGNED - DJB	REVISED -
PLOT SCALE = 50.00' / IN.	DRAWN - ENTRAN	REVISED -
PLOT DATE = 8/17/2011	CHECKED - TMH	REVISED -
	DATE - 06/15/11	REVISED -

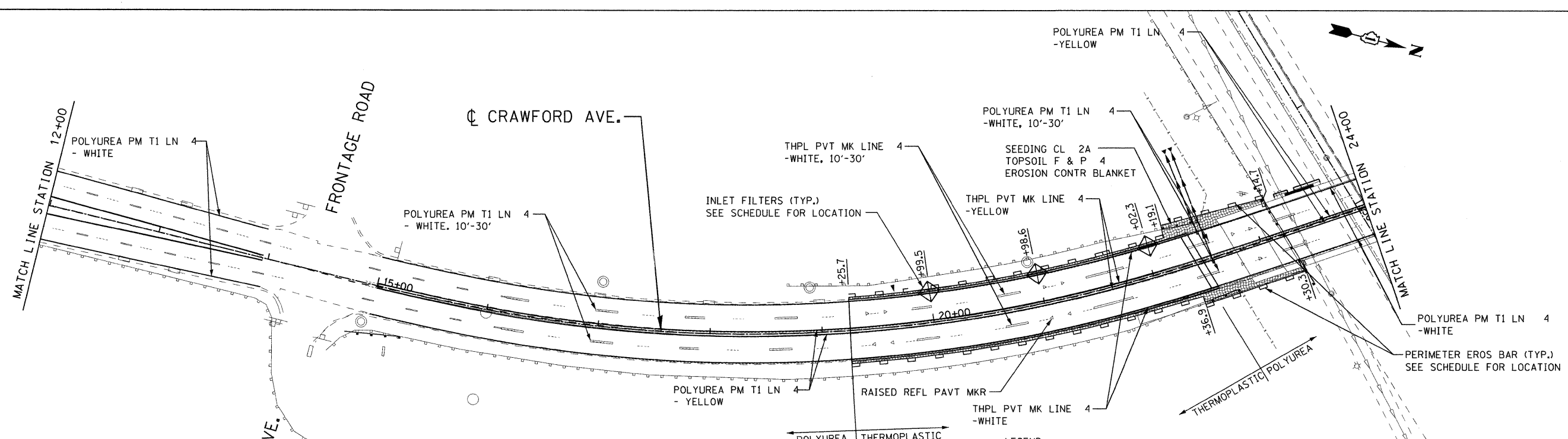
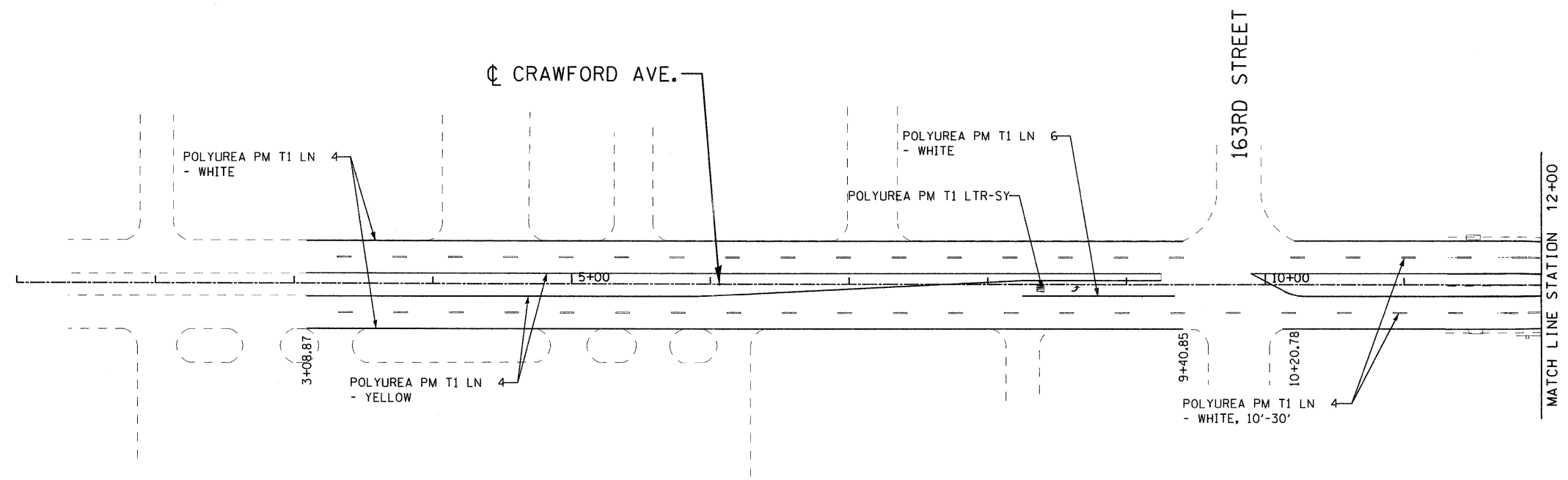
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
MAINTENANCE OF TRAFFIC - STAGE 2

SCALE: 50.00' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	17
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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EROSION AND SEDIMENT CONTROL NOTES:

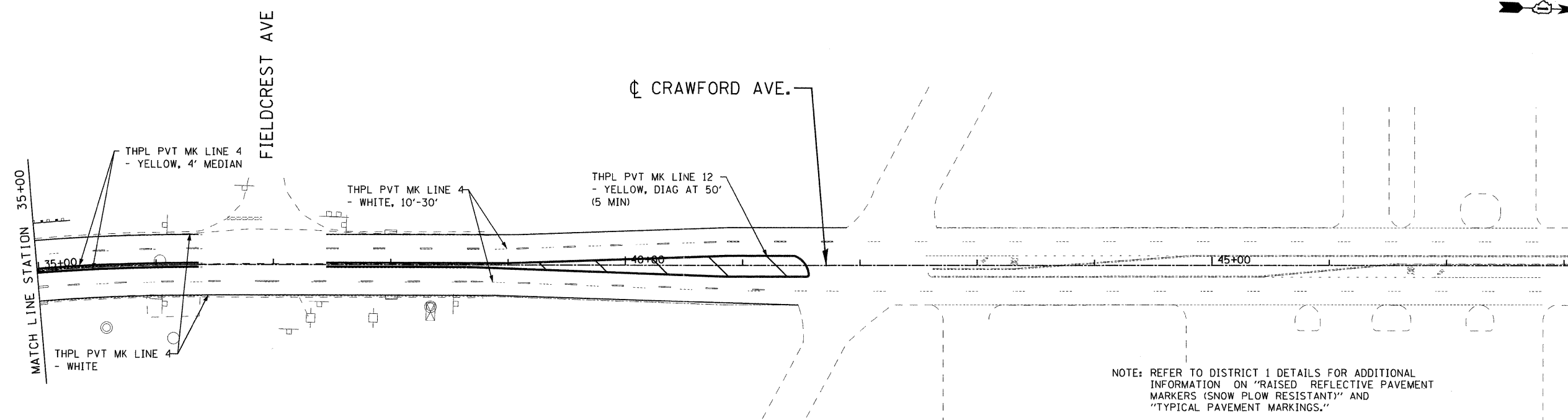
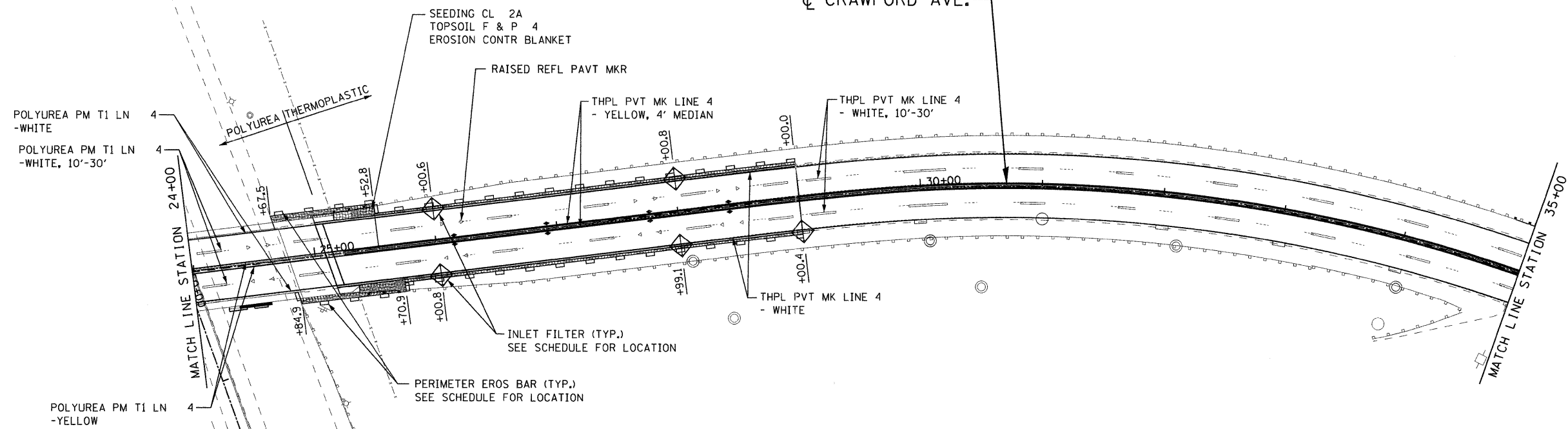
CONTRACTOR SHALL PROVIDE INLET FILTERS TO ALL EXISTING INLETS LOCATED WITHIN PROJECT LIMITS.

J-HOOKS SHALL BE UTILIZED AT THE ENDS OF THE ON-CONTOUR PERIMETER EROSION BARRIER (SILT FENCE) FOUND ALONG THE ABUTMENT SLOPEWALL IN ACCORDANCE WITH STANDARD 280001.

NOTE: REFER TO DISTRICT 1 DETAILS FOR ADDITIONAL INFORMATION ON "RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)" AND "TYPICAL PAVEMENT MARKINGS."

- LEGEND:**
- ◆ RAISED REFLECTIVE PAVEMENT MARKER - 2 WAY AMBER
 - ◁ RAISED REFLECTIVE PAVEMENT MARKER - 1 WAY CRYSTAL
 - ▨ TOPSOIL, SEEDING, EROSION CONTROL BLANKET
 - ▬ PERIMETER EROSION BARRIER
 - ◇ INLET FILTERS

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EROSION AND SEDIMENT CONTROL NOTES:

CONTRACTOR SHALL PROVIDE INLET FILTERS TO ALL EXISTING INLETS LOCATED WITHIN PROJECT LIMITS.

J-HOOKS SHALL BE UTILIZED AT THE ENDS OF THE ON-CONTOUR PERIMETER EROSION BARRIER (SILT FENCE) FOUND ALONG THE ABUTMENT SLOPEWALL IN ACCORDANCE WITH STANDARD 280001.

NOTE: REFER TO DISTRICT 1 DETAILS FOR ADDITIONAL INFORMATION ON "RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)" AND "TYPICAL PAVEMENT MARKINGS."

- LEGEND:**
- ◆ RAISED REFLECTIVE PAVEMENT MARKER - 2 WAY AMBER
 - ◁ RAISED REFLECTIVE PAVEMENT MARKER - 1 WAY CRYSTAL
 - ▨ TOPSOIL, SEEDING, EROSION CONTROL BLANKET
 - ▬ PERIMETER EROSION BARRIER
 - ◊ INLET FILTERS



USER NAME = 2PIENID	DESIGNED - DJB	REVISED -
PLOT SCALE = 50.00' / IN.	DRAWN - ENTRAN	REVISED -
PLOT DATE = 8/17/2011	CHECKED - TMH	REVISED -
	DATE - 06/15/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
PAVEMENT MARKING, & EROSION CONTROL PLAN

SCALE: 50.00' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	19
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Diagram of a rectangular traffic sign with the following dimensions and text:

- Overall Dimensions:**
 - Width: 25'-6"
 - Height: 112'-0"
- Internal Dimensions and Spacing:**
 - Top margin: 11.6" (10" (t))
 - Right margin: 9.1" (15" (t)), 7.1" (7.5"), 36"
 - Bottom margin: 12", 16" (t), 17.8", 10" (t), 12.6"
 - Left margin: 16" (t), 9.6"
 - Bottom margin (from center line): 16" (t), 9.6"
 - Bottom margin (from center line): 16" (t), 9.6"
- Text and Graphics:**
 - Top text: EXIT 350
 - Center graphic: ILLINOIS 83
 - Main text: 147th St-Sibley Blvd
 - Bottom text: 2 1/4 MILES
- Border and Mounting:**
 - BORDER
 - R = 12"
 - TH = 2"
 - Mounting holes: 16.85" (left), 272.7" (center), 16.85" (right)

SIGN NUMBER	NB1	
WIDTH x HGHT.	25'-6" x 12'-0"	
BORDER WIDTH	2"	
CORNER RADIUS	12"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green/Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White/White

[illegible][illegible]

SIGN DETAIL
1:75

SIGN NUMBER	NB2
WIDTH x HGHT.	11'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green/Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	W/D	HT
M1_4	0	23	52.7	36	36
ARMED	45	101.1	33.7	20	31.5

[illegible]

SIGN DETAIL
1:75

SIGN NUMBER	SB1
WIDTH x HGHT.	16'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green/Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

[illegible][illegible]

SIGN DETAIL
1:75

SIGN NUMBER	SB2	
WIDTH x HGHT.	14'-6" x 12'-0"	
BORDER WIDTH	2"	
CORNER RADIUS	12"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green/Green
	LEGEND/BORDER	TYPE:
	COLOR:	White/White

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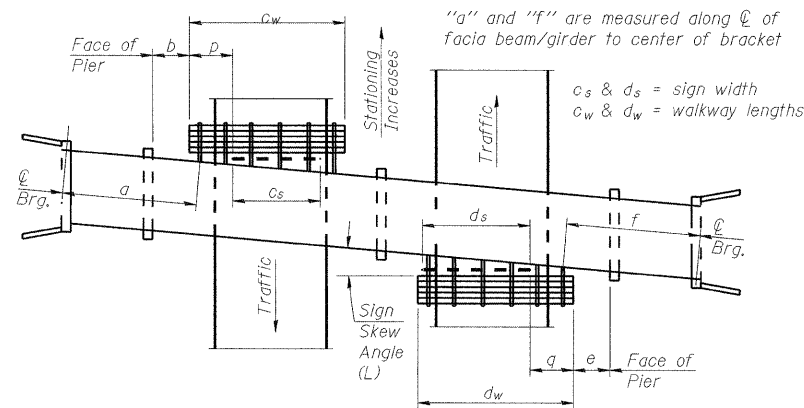
DESIGNED	-	DJB
DRAWN	-	ENTRAN
CHECKED	-	TMH

REVISED	-
REVISED	-
REVISED	-

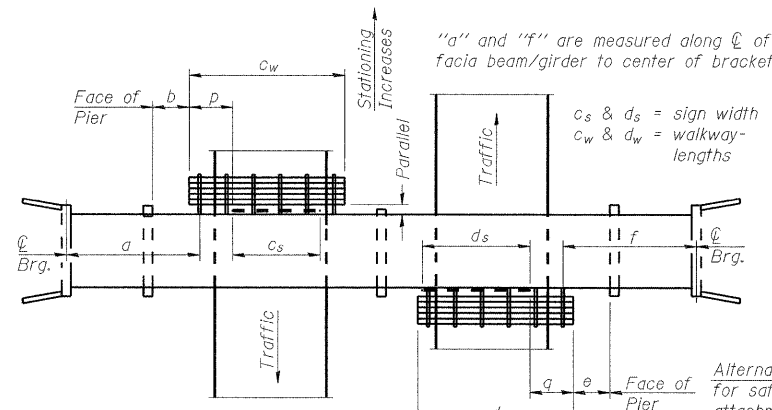
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
SIGNING DETAILS

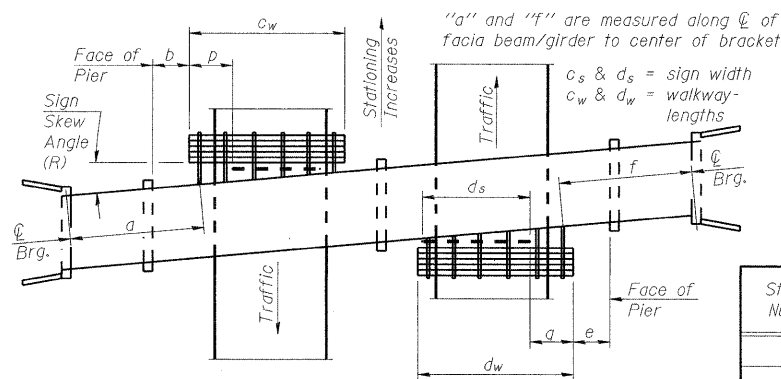
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	20
		CONTRACT NO. 60863		



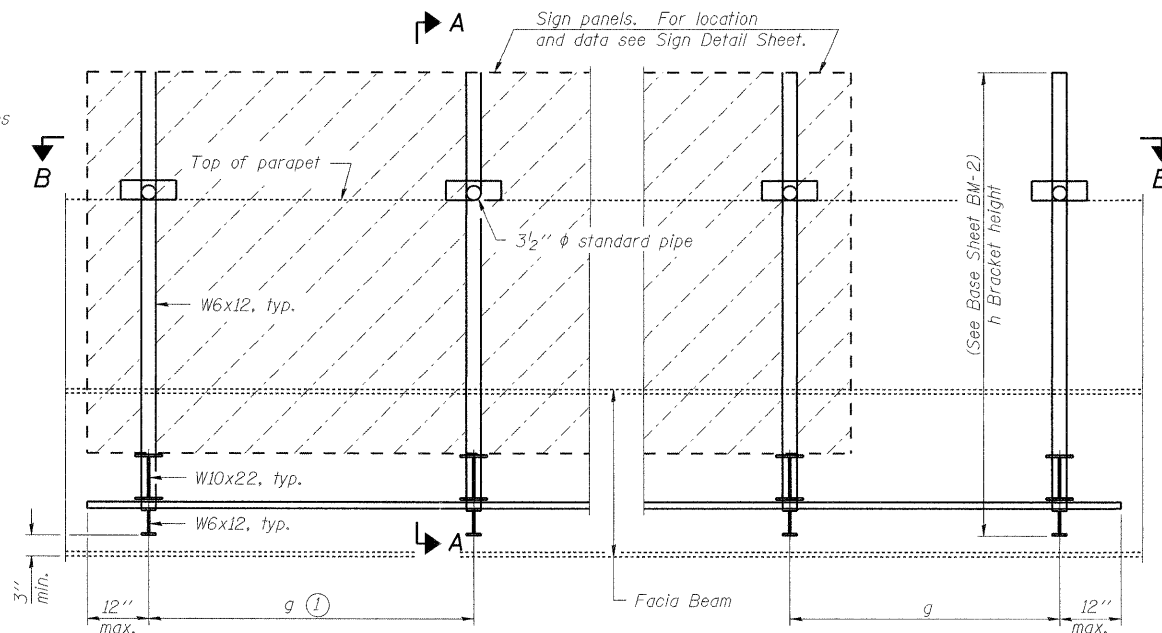
PLAN
(Left Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



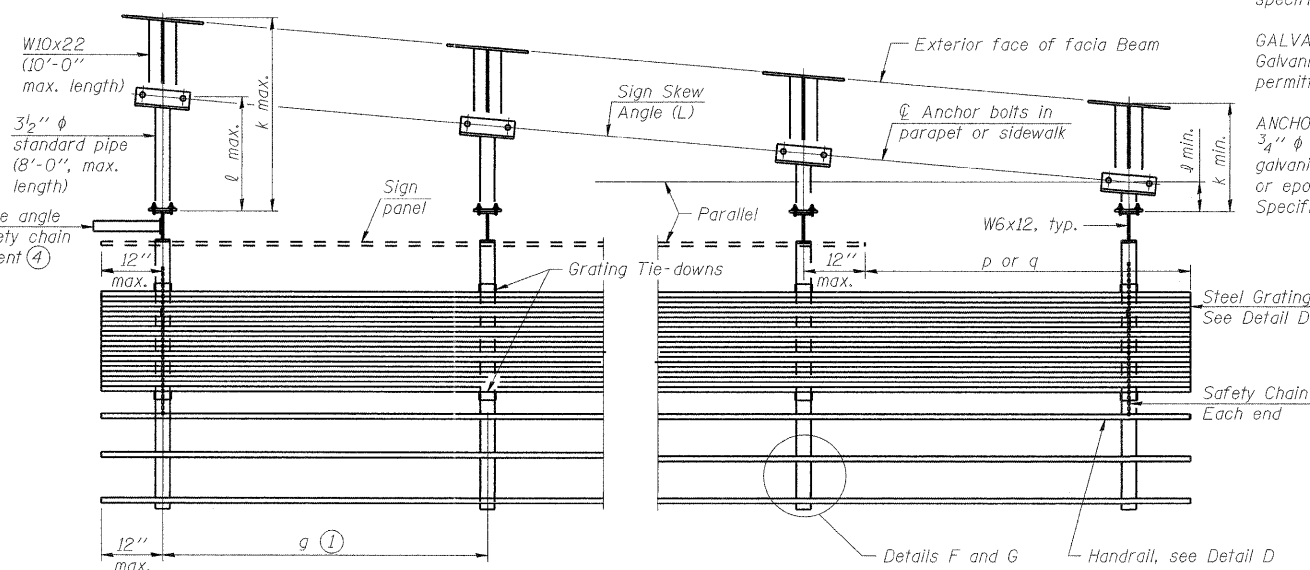
PLAN
(For Sign Skew ≤ 15°, all brackets constant)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



PLAN
(Right Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION
(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B
(Shown: Left Sign Skew > 15°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c _s	c _w	d _s	d _w	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (c _w + d _w)
NB1	12°35'05"	150+05	016-1015	FAI 57					25'-6"				42'-3"	6'-0"	5		
NB2	12°35'05"	150+05	016-1015	FAI 57					11'-0"				24'-0"	4'-6"	3		
SB1	12°35'05"	150+05	016-1015	FAI 57	45'-9"		16'-0"						4'-10"		4		
SB2	12°35'05"	150+05	016-1015	FAI 57	27'-2"		14'-6"						4'-6"		4		

Dimensions a, b, e, f & g may vary as approved by the Engineer, see ①.
When c_w < c_s and/or d_w < d_s, use alternate brackets without walkway supports where applicable, see ③.

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") ②

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50.).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4" φ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- ① Bracket spacing g ≤ 6'-0", max. Spacing shall be uniform if possible but may vary ±6" to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- ② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- ③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (c_w, d_w) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- ④ If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

TOTAL BILL OF MATERIAL

③ OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	67.0
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BM-1

1-20-11

ENTRAN

USER NAME = 2PIENTD

DESIGNED - DJB

REVISED -

PLOT SCALE = 5/8" = 1' / IN.

DRAWN - ENTRAN

REVISED -

PLOT DATE = 8/17/2011

CHECKED - TMH

REVISED -

DATE - 06/15/11

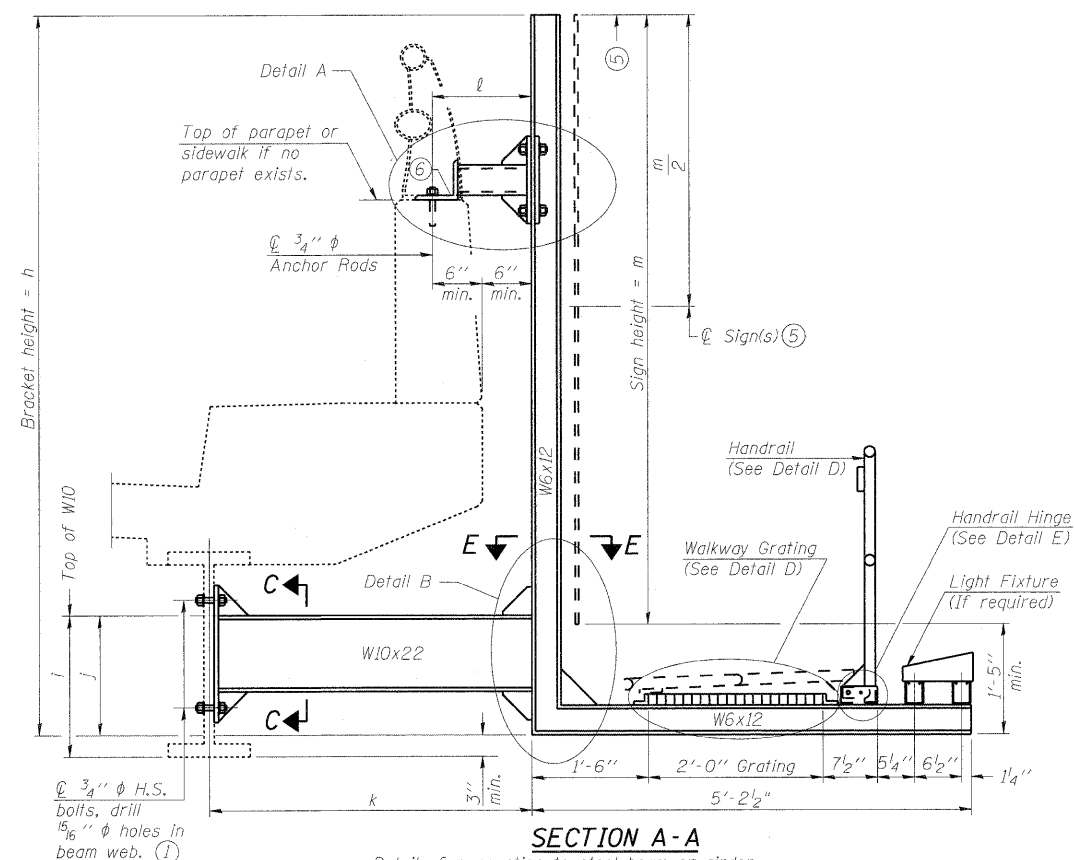
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
BRIDGE MOUNT SIGN STRUCTURES - GENERAL PLAN AND ELEVATION

SCALE: 5/8" = 1' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	21
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

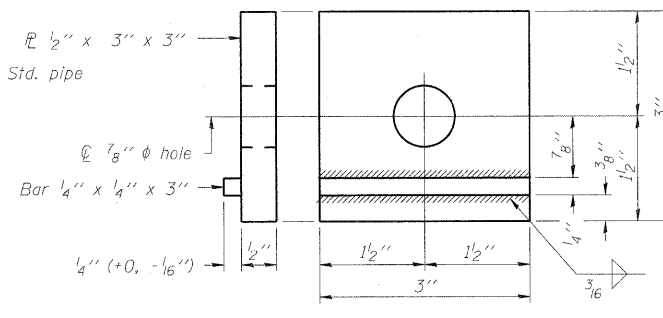
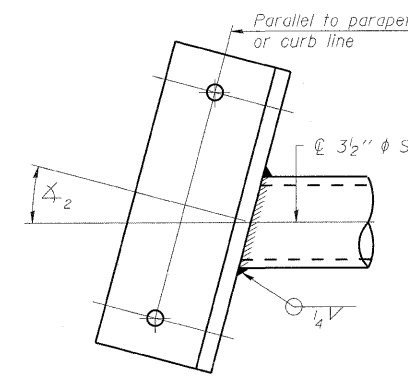
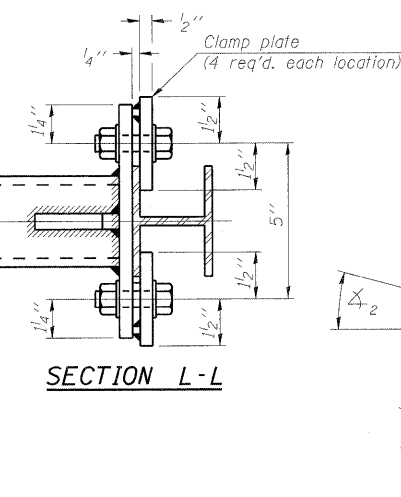
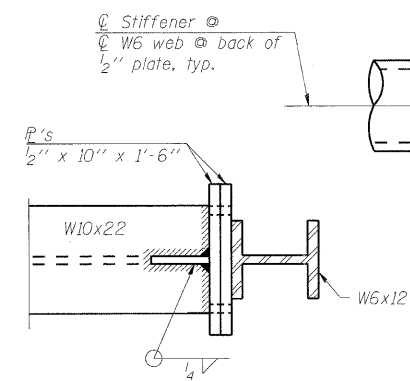
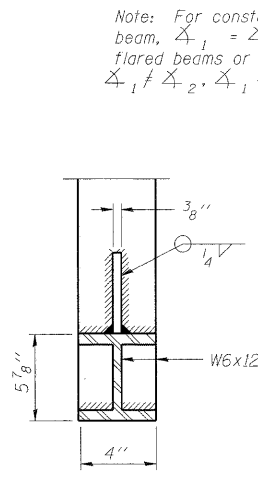
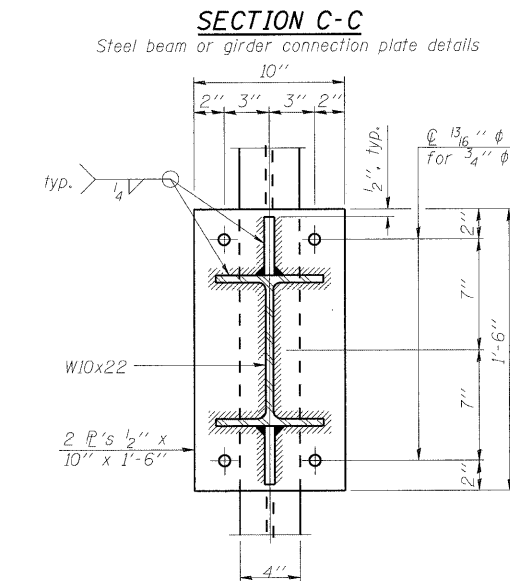
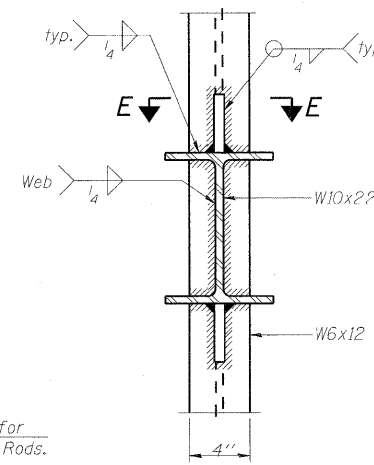
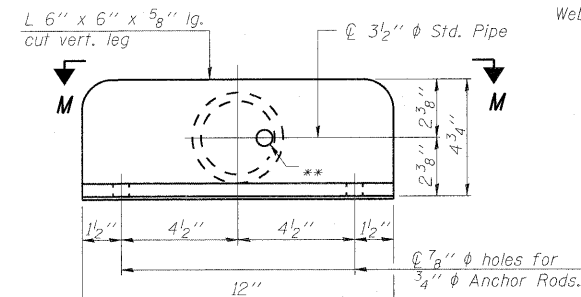
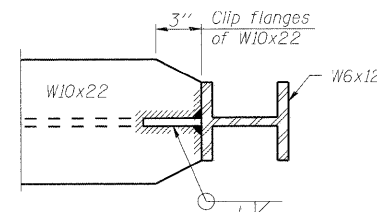
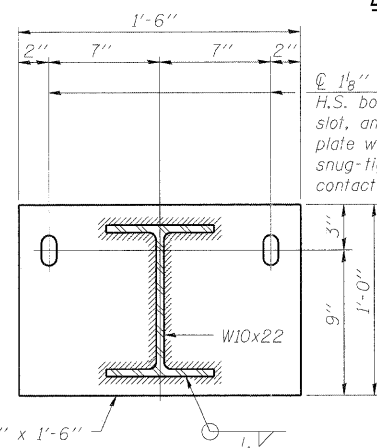
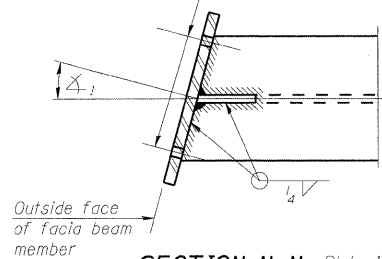
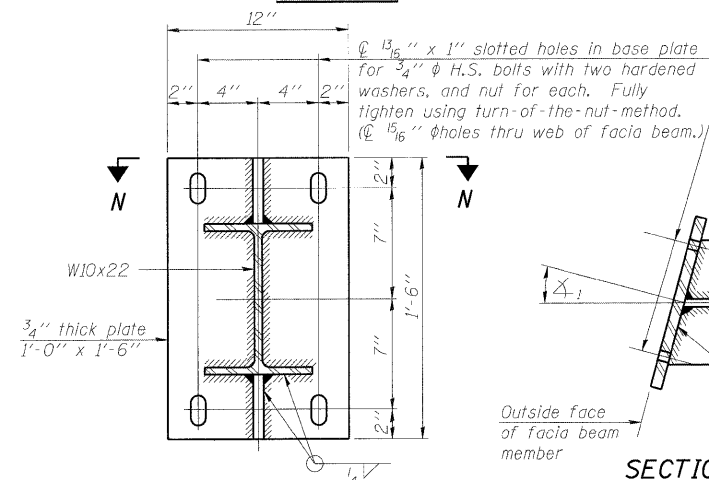
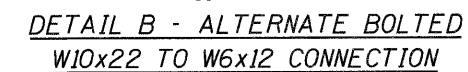
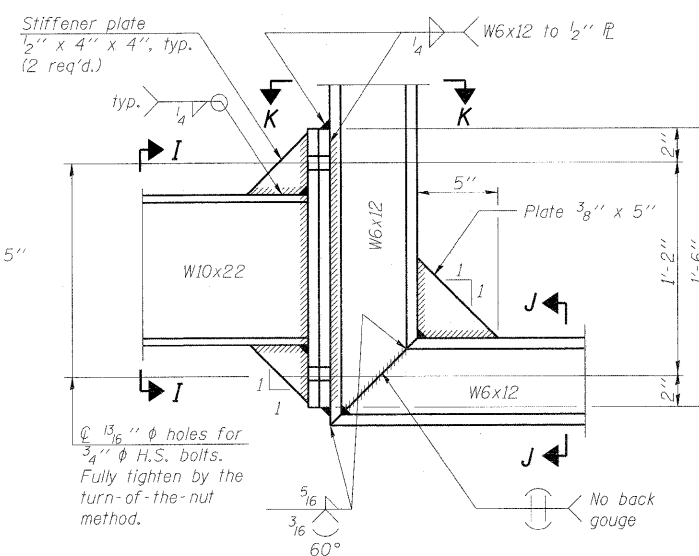
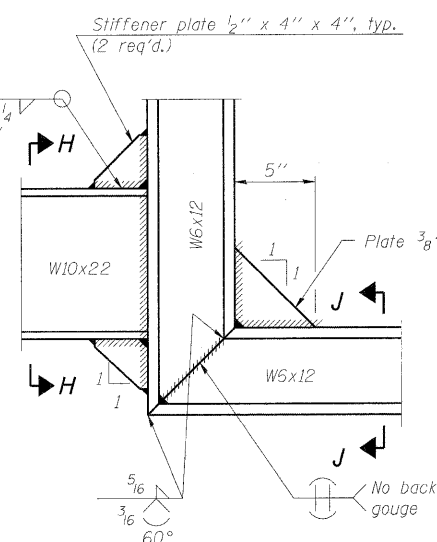
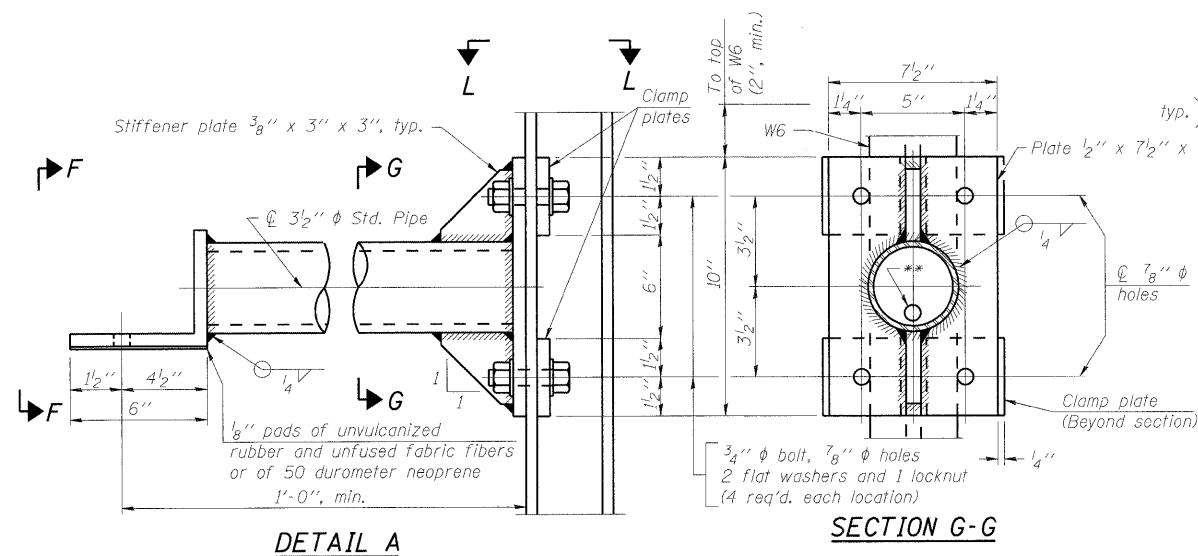


- ① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- ② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- ③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- ④ For attachment details of 3/2" pipe and W10x22, see other sections as applicable.
- ⑤ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- ⑥ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
NB1	150+05	13'-5"	2'-3"	2'-0"	3'-6"	1'-0"	12'-0"
NB2	150+05	12'-11"	2'-3"	2'-0"	3'-6"	1'-0"	11'-6"
SB1	150+05	12'-11"	2'-3"	2'-0"	3'-6"	1'-0"	11'-6"
SB2	150+05	13'-5"	2'-3"	2'-0"	3'-6"	1'-0"	12'-0"

For Details A & B, Sections C-C, D-D
and E-E, see Base Sheet BM-3.
For Details D & E, see Base Sheet BM-4.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	22
		CONTRACT NO. 60863		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



BM-3

1-20-11



USER NAME = 2penid
PLOT SCALE = 50.00' / IN.
PLOT DATE = 7/6/2011

DESIGNED -	DJB	REVISED -
DRAWN -	ENTRAN	REVISED -
CHECKED -	TMH	REVISED -
DATE -	06/15/11	REVISED -

1. The first step in the process of creating a new product is to identify a market need. This involves conducting market research to understand the target audience and their requirements. Once a need is identified, the next step is to develop a concept that addresses this need. This concept should be innovative and differentiated from existing products in the market.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
BRIDGE MOUNT SIGN STRUCTURES - CONNECTION DETAILS

SCALE: 50.00' / IN.	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	2
		CONTRACT NO. 60863		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

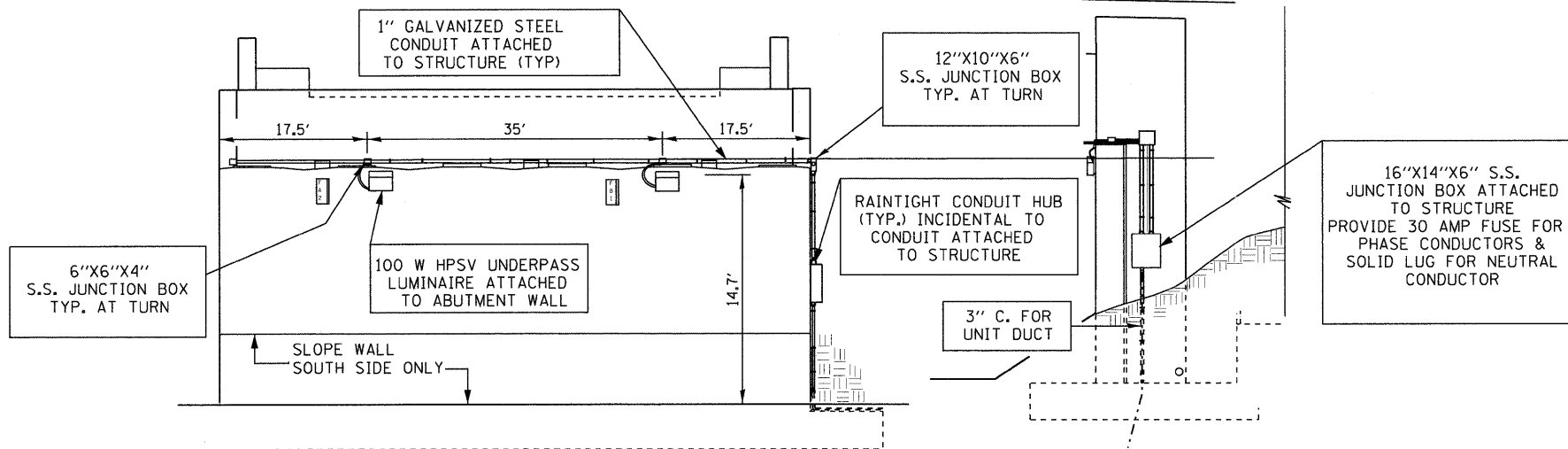
1. ANY ROADWAY LIGHTING MATERIALS AND/OR LIGHTING SYSTEMS SHOWN ON THE PLAN SHEETS AS "EXISTING" ARE FOR THE CONTRACTOR'S INFORMATION ONLY. THE CONTRACTOR MUST FIELD VERIFY EXISTING ROADWAY LIGHTING MATERIALS/SYSTEMS AS SPECIFIED IN THE "GENERAL ELECTRICAL PROVISIONS".
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LUMINAIRES FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER AT THE PRECONSTRUCTION INSPECTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL REMAIN WITH THE CONTRACTOR.
4. PROPOSED UNDERGROUND RACEWAYS, UNIT DUCT AND WARNING TAPE SHALL NOT BE INSTALLED UNTIL FINAL GRADE HAS BEEN ESTABLISHED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, RACEWAYS AND UNIT DUCT SHALL BE INSTALLED AT A DEPTH OF 30-INCHES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE INSTALLATION OF THE WARNING TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE. AT THE REQUEST OF THE ENGINEER AND AT NO ADDITIONAL COST, THE CONTRACTOR SHALL HAND-DIG TEST HOLES. WITH ONE TEST HOLE DUG FOR EACH 1000-FT OF TRENCH/PLOWING. TEST HOLE CHECKS SHALL BE WITNESSED BY THE ENGINEER TO VERIFY THE DEPTH AND CONDITION OF UNIT DUCT WARNING TAPE AND RACEWAYS.
5. QUANTITIES OF TRENCHED AND PUSHED CONDUIT, WHERE INDICATED ON THE CONTRACT DRAWINGS, ARE APPROXIMATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE CONFORMANCE WITH SPECIFICATIONS.
6. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR SPLICING ELECTRICAL CABLE. SEE "GENERAL ELECTRICAL REQUIREMENTS" AND SPLICING DETAIL ON SHEET E-3.
7. THE CONTRACTOR SHALL MAKE NOTE OF THE REQUIREMENTS FOR GROUNDING.
- A. GROUNDING CONNECTIONS AT THE FOUNDATION STEEL AND AT THE GROUND ROD SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- B. EQUIPMENT GROUND CONDUCTORS (GREEN COLOR CODED) SHALL BE SPLICED AND PIGTAILED TO EACH METALLIC JUNCTION/PULL BOX THEY PASS THROUGH AS WELL AS AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT. THE CONNECTION SHALL UTILIZE U.L. LISTED CLAMPS. PRESSURE CONNECTORS OR OTHER U.L. LISTED MEANS.
- C. METALLIC JUNCTION/PULL BOXES SHALL BE EQUIPPED FOR THE GROUNDING WIRE TERMINATIONS WITHOUT DEGRADATION OF BOX RATING.
8. THE CONTRACTOR SHALL SUBMIT FULL SIZED COMPLETE, NEAT AND ACCURATE "RECORD DRAWINGS" TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED. THE "RECORD DRAWINGS" SHALL BE UPDATED ON REGULAR BASIS AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.

9. WITHIN THIRTY (30) DAYS AFTER THE CONTRACT IS SIGNED AND BEFORE ANY WORK IS AUTHORIZED BY THE ENGINEER, THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S LITERATURE PERTAINING TO LIGHTING WORK FOR THE ELECTRICAL ENGINEER'S REVIEW AND APPROVAL.
10. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123). TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
11. THE CONTRACTOR SHALL NOTIFY THE CITY OF MARKHAM TO LOCATE AND MARK/STAKE ALL CITY OWNED UNDERGROUND UTILITIES.
12. THE CONTRACTOR SHALL, AS DIRECTED BY THE ENGINEER, DISPOSE OF THE EXISTING ELECTRICAL MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE RESPECTIVE PAY ITEM.
13. THE EXISTING SCHEMATIC WIRING, SHOWN ON SHEET E-2 & E-3 IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY IN THE FIELD, CIRCUITS FOR EXISTING LIGHTING SYSTEM.
14. THE ENGINEER SHALL DETERMINE IN THE FIELD, THE EXACT LOCATION AND TYPE OF FOUNDATION IF REQUIRED TO DRILL
15. THE CONTRACTOR SHALL GIVE IN WRITING TO THE ELECTRICAL ENGINEER FOR REVIEW. CONSTRUCTION STAGING FOR THE PROPOSED ROADWAY LIGHTING WORK, AND THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ELECTRICAL ENGINEER.
16. THE LIGHTING SYSTEM SHALL REMAIN IN OPERATION BETWEEN 4 P.M. AND 8 A.M. OR AS DIRECTED BY THE ENGINEER.

PAY ITEM	UNITS	QUANTITY
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	525
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	80
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	14
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1975
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	245
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	735
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	245
UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8
REMOVE EXISTING LIGHTING SYSTEM	L SUM	1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6

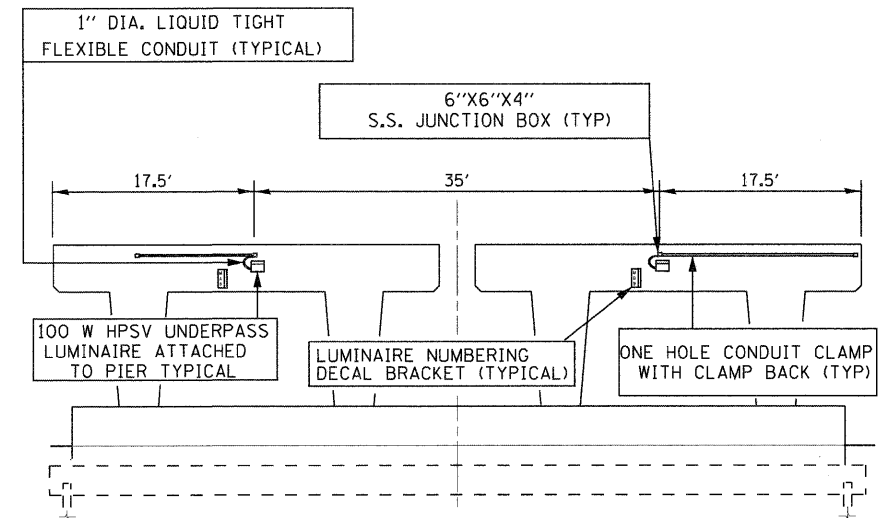
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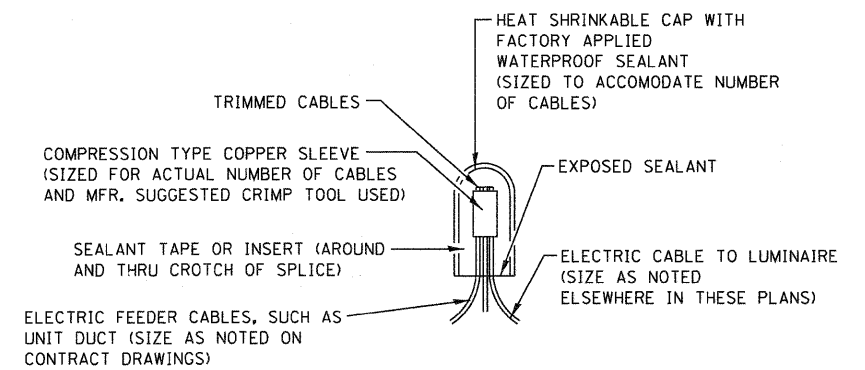
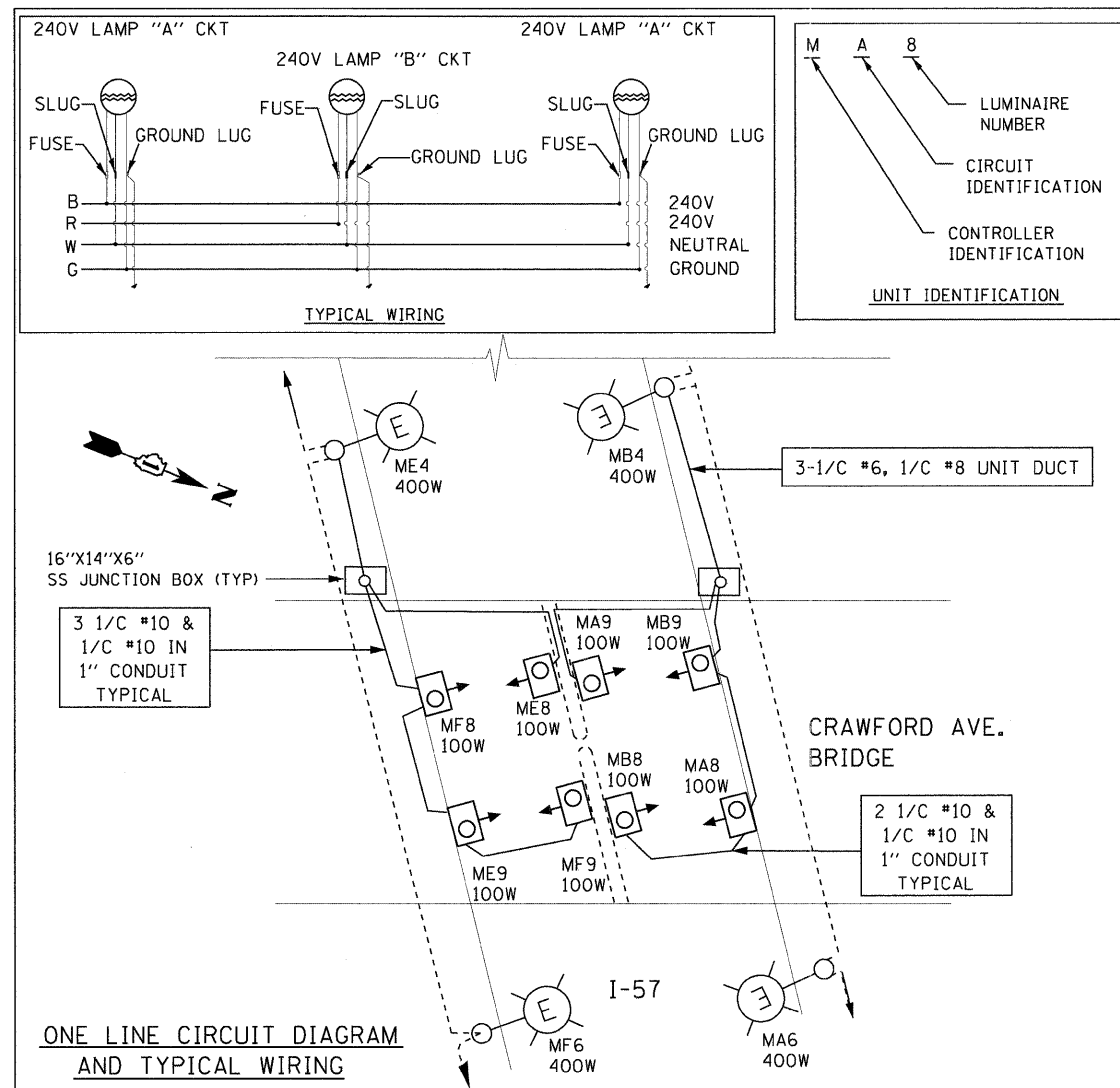


SOUTH ABUTMENT WALL
(AT NORTH ABUT. SEE PLAN FOR DIMENSION- TYPICAL CONNECTION)

AT SOUTH ABUTMENT
(AT NORTH ABUT. SEE PLAN FOR LOCATION- TYPICAL CONNECTION)



PIER ELEVATION FACING NORTH
(AT PIER FACING SOUTH SEE PLAN FOR DIMENSION- TYPICAL CONNECTION)



ELECTRIC CABLE SPLICE DETAIL



USER NAME = 2pennid
PLOT SCALE = 20.00' / IN.
PLOT DATE = 7/6/2011

DESIGNED - DJB
DRAWN - ENTRAN
CHECKED - TMH
DATE - 06/15/11

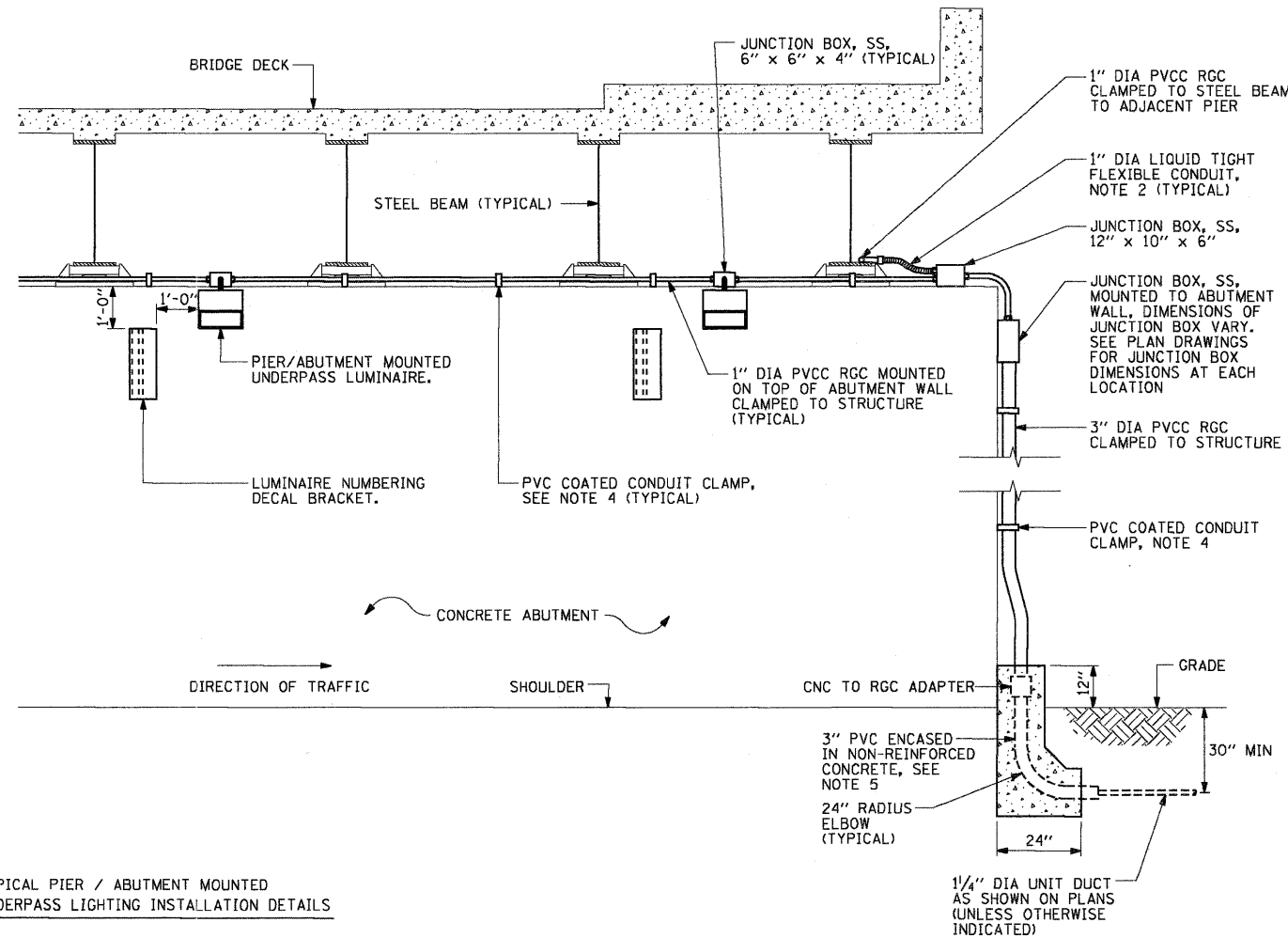
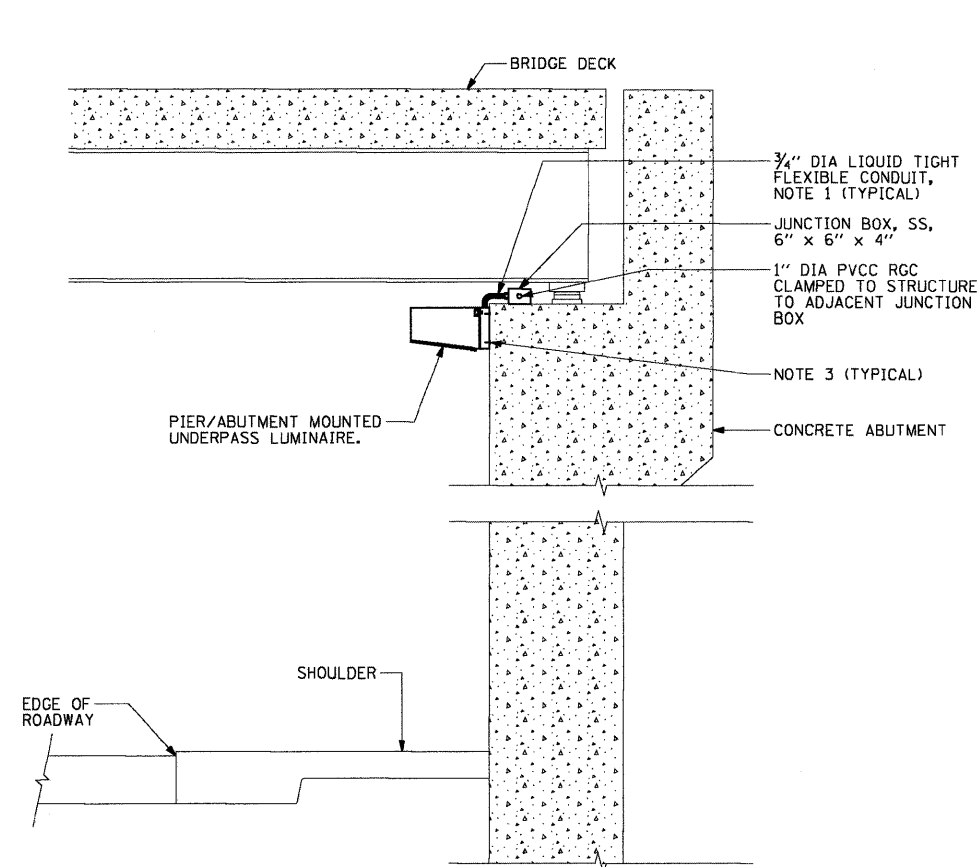
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

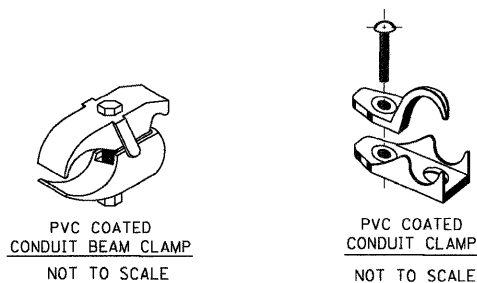
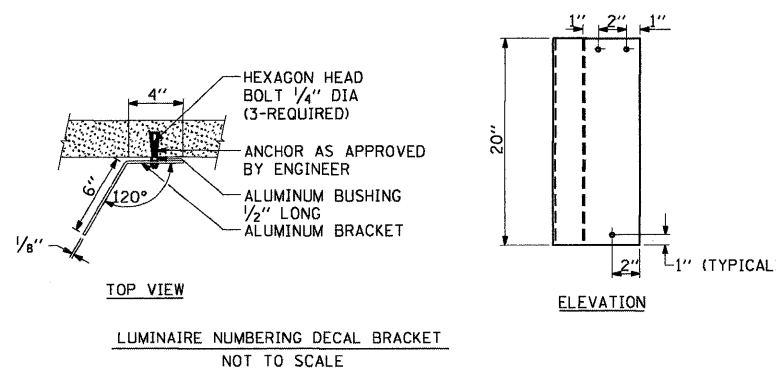
**FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
UNDERPASS LIGHTING DETAILS**

SCALE: 20.00' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 57	SECTION 1112.1B	COUNTY COOK	TOTAL SHEETS 75	SHEET NO. 26
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL PIER / ABUTMENT MOUNTED
UNDERPASS LIGHTING INSTALLATION DETAILS



- NOTES:
1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE 3/4" DIA. RIGID STEEL CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
 2. UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
 3. EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
 4. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 5. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 6. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

FILE NAME =	USER NAME = gaglianob	DESIGNED -	REVISED - 01-25-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER /ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\diststd\22x34\be902.dgn		DRAWN -	REVISED -			57	1112.1B	COOK	75	27
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -			BE-902		CONTRACT NO. 60863		
	PLOT DATE = 1/4/2008	DATE -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

BENCH MARK:
Chiseled "□" on West wingwall of N. Abutment, El. 666.81

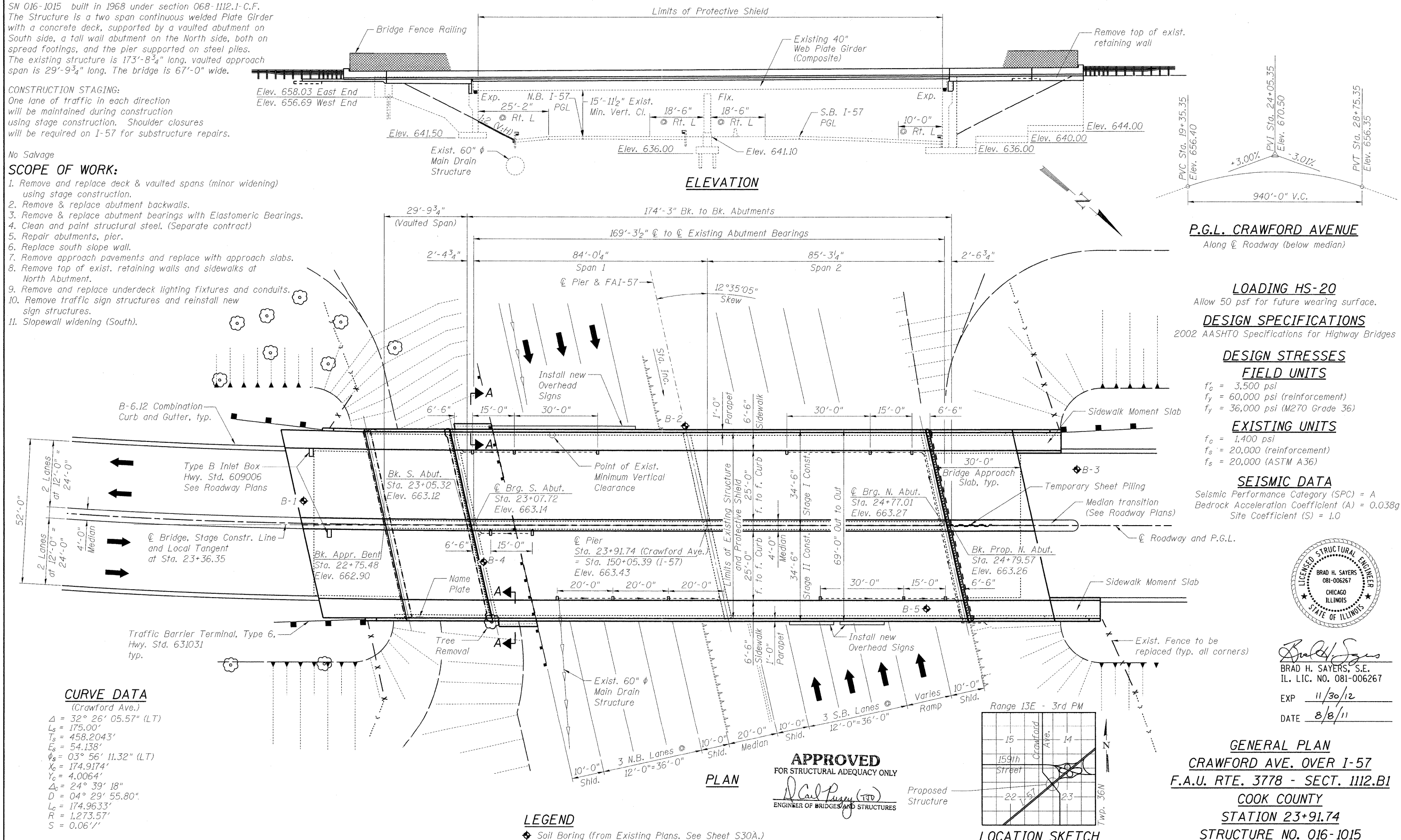
EXISTING STRUCTURE:
SN 016-1015 built in 1968 under section 068-1112.1-C.F.
The Structure is a two span continuous welded Plate Girder with a concrete deck, supported by a vaulted abutment on South side, a tall wall abutment on the North side, both on spread footings, and the pier supported on steel piles.
The existing structure is 173'-8³/₄" long, vaulted approach span is 29'-9³/₄" long. The bridge is 67'-0" wide.

CONSTRUCTION STAGING:
One lane of traffic in each direction will be maintained during construction using stage construction. Shoulder closures will be required on I-57 for substructure repairs.

No Salvage

SCOPE OF WORK:

1. Remove and replace deck & vaulted spans (minor widening) using stage construction.
2. Remove & replace abutment backwalls.
3. Remove & replace abutment bearings with Elastomeric Bearings.
4. Clean and paint structural steel. (Separate contract)
5. Repair abutments, pier.
6. Replace south slope wall.
7. Remove approach pavements and replace with approach slabs.
8. Remove top of exist. retaining walls and sidewalks at North Abutment.
9. Remove and replace underdeck lighting fixtures and conduits.
10. Remove traffic sign structures and reinstall new sign structures.
11. Slopewall widening (South).



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USER NAME = zsayerb	DESIGNED - TWO	REVISED -
PLOT SCALE = N/A	CHECKED - BHS	REVISED -
PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -
	CHECKED - GSP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 016-1015
SHEET NO. S1 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.B1	COOK	75	28
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

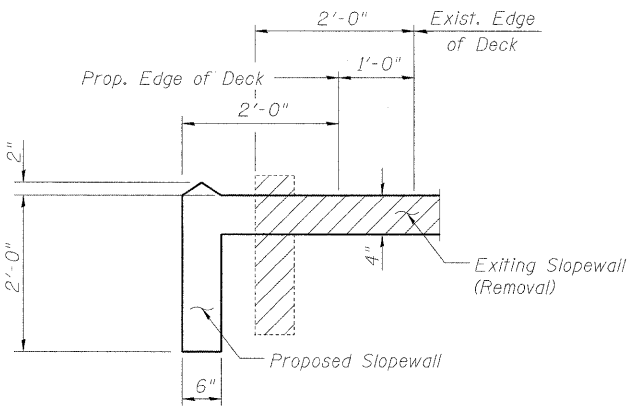
- S1. General Plan & Elevation
S2. General Notes, Index of Sheets & Total Bill of Material
S3. Stage Construction Details
S4. Temporary Concrete Barrier for Stage Construction
S5. Top of Deck Elevations (1 of 3)
S6. Top of Deck Elevations (2 of 3)
S7. Top of Deck Elevations (3 of 3)
S8. Top of South Approach Elevations
S9. Top of North Approach Elevations
S10. Deck Plan and Section
S11. Parapet and Sidewalk Elevation and Details
S12. Bridge Fence Railing, Parapet Mounted
S13. Preformed Joint Strip Seal
S14. Drainage Scupper DS-11
S15. Drainage Scupper DS-12
S16. Bridge Drainage System
S17. Vaulted Abutment Approach Span (1 of 2)
S18. Vaulted Abutment Approach Span (2 of 2)
S19. South Approach Slab
S20. North Approach Slab
S21. Approach Slab Section and Details
S22. Sidewalk Moment Slabs
S23. Structural Steel Details
S24. Bearing Details
S25. South Abutment Repair
S26. South Abutment Backwall Reconstruction
S27. North Abutment Repair
S28. North Abutment Backwall Reconstruction
S29. Pier Repair
S30. Bar Splicer Assembly
S30A. Existing Soil Borings
S31. Existing Bridge Plans (1 of 6)
S32. Existing Bridge Plans (2 of 6)
S33. Existing Bridge Plans (3 of 6)
S34. Existing Bridge Plans (4 of 6)
S35. Existing Bridge Plans (5 of 6)
S36. Existing Bridge Plans (6 of 6)

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$ in. ϕ , holes $\frac{1}{8}$ in. ϕ , unless otherwise noted.
2. No field welding is permitted except as specified in the contract documents.
3. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
- As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding $\frac{1}{4}$ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
6. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
7. Concrete Sealer shall be applied to the designated areas of the exposed surface of the new backwalls.
8. Cleaning and field painting of structural steel shall be done under a separate painting contract.
9. Existing structural steel shall only be cleaned and painted as required by the Special Provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."
10. All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M 300, Type 1.
11. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
12. Slipforming of parapets is not allowed.
13. Areas of the existing bridge have permanent protective shield in place. If any part of the existing permanent protective shield system is to be re-used as temporary protective shield, the Contractor shall submit design calculations to the Engineer proving the system meets the requirements of Article 501.03 of the Standard Specifications. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. The cost of removal of all Protective Shield, temporary and existing permanent protective shield shall be included in the cost of Protective Shield.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		3	3
Concrete Removal	Cu. Yd.	52.4		52.4
Slope Wall Removal	Sq. Yd.		136	136
Removal of Existing Concrete Deck	Each	1		1
Protective Shield	Sq. Yd.	1311		1311
Structure Excavation	Cu. Yd.		36	36
Concrete Structures	Cu. Yd.		69.7	69.7
Concrete Superstructure	Cu. Yd.	817.6		817.6
Bridge Deck Grooving	Sq. Yd.	1335		1335
Protective Coat	Sq. Yd.	2244		2244
Furnishing and Erecting Structural Steel	Pound	3850		3850
Stud Shear Connectors	Each	320		320
Reinforcement Bars, Epoxy Coated	Pound	163,620	11,480	175,100
Bar Splicers	Each	891	97	988
Bridge Fence Railing	Foot	501.0		501.0
Slope Wall 4 Inch	Sq. Yd.		139	139
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	146.0		146.0
Elastomeric Bearing Assembly, Type I	Each	20		20
Anchor Bolts, 1 1/4"	Each	40		40
Concrete Sealer	Sq. Ft.		803	803
Epoxy Crack Injection	Foot		41	41
Geocomposite Wall Drain	Sq. Yd.		24	24
Porous Granular Embankment, Special	Cu. Yd.		36	36
Jack and Remove Existing Bearings	Each	20		20
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.		664	664
Drainage Scuppers, DS-11	Each	12		12
Drainage Scuppers, DS-12	Each	2		2
Drainage System	L. Sum		1	1
Temporary Sheet Piling	Sq. Ft.		141	141
Pipe Underdrains for Structures 4"	Foot		69	69



SECTION A-A

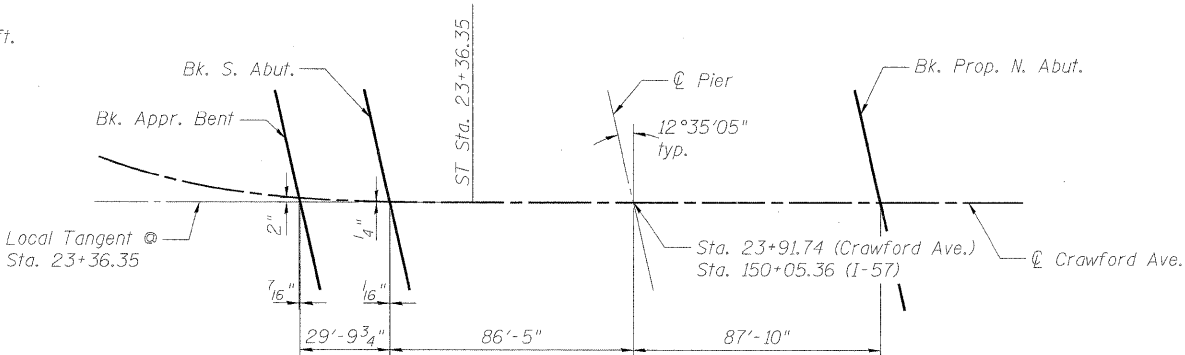
Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

STATION 23+91.74
REBUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 57 SEC. 1112.1B
LOADING HS-20
STRUCTURE NO. 016-1015

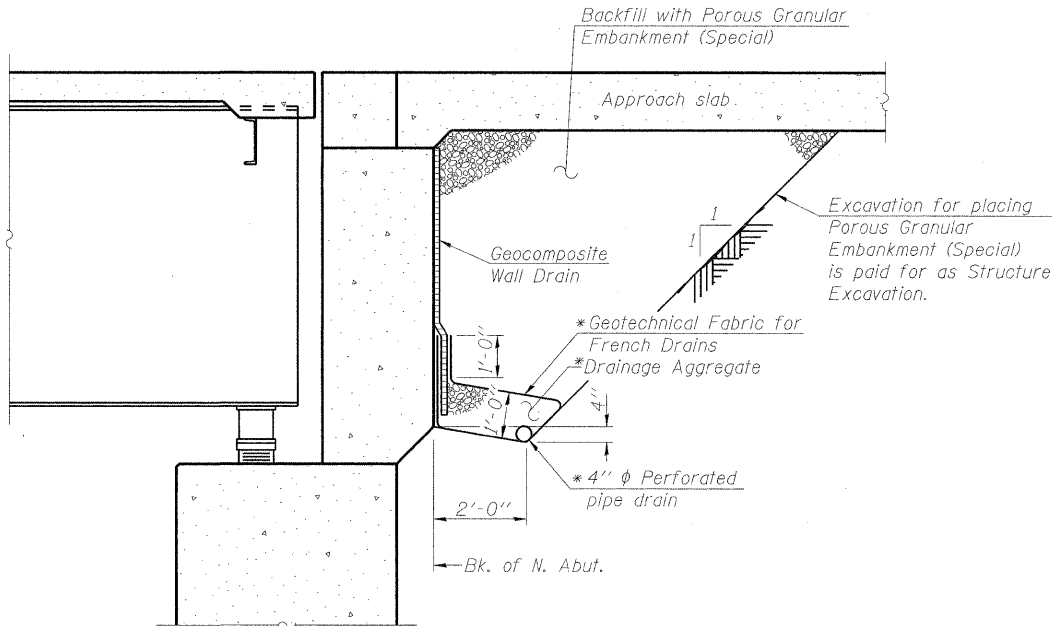
NAME PLATE

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.
See Sheet S1 for Name Plate location.



OFFSET SKETCH



SECTION THRU NORTH ABUTMENT

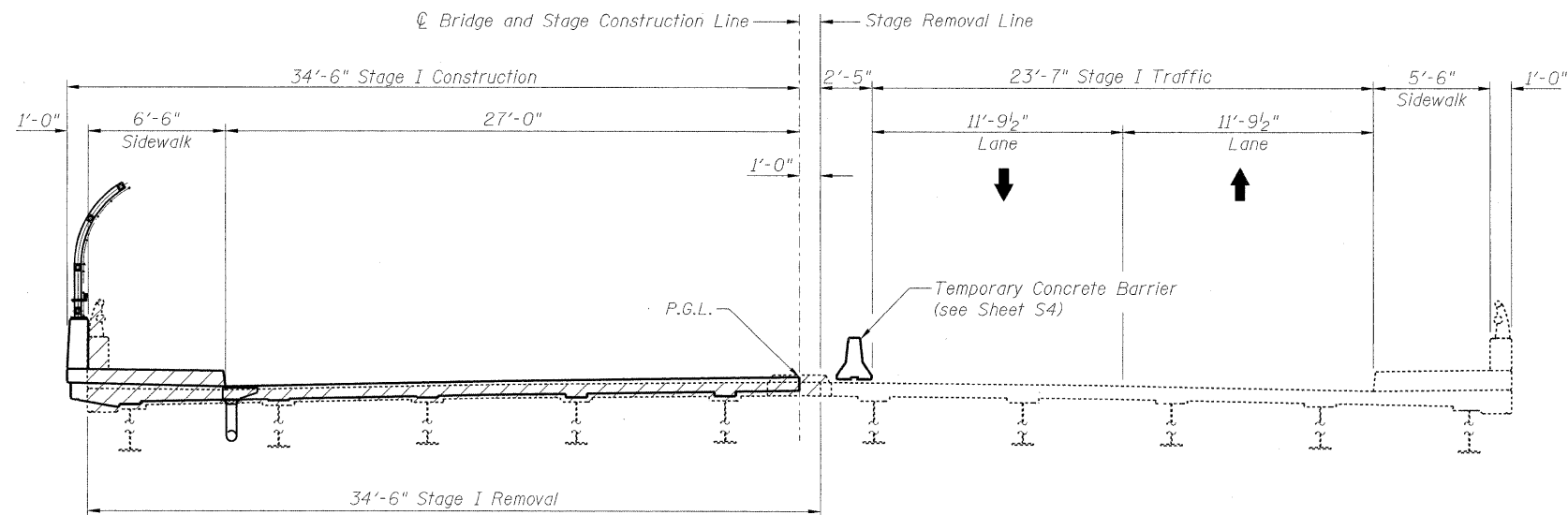
(Horiz. dim. @ Rt. L's)

Note:
All drainage system components shall extend parallel the full length of the North Abutment back wall except an outlet pipe shall extend until intersecting with the wingwalls. The wingwalls shall be cored to accept the outlet pipe. This work shall be included in the pay item for Pipe Underdrains for Structures 4".

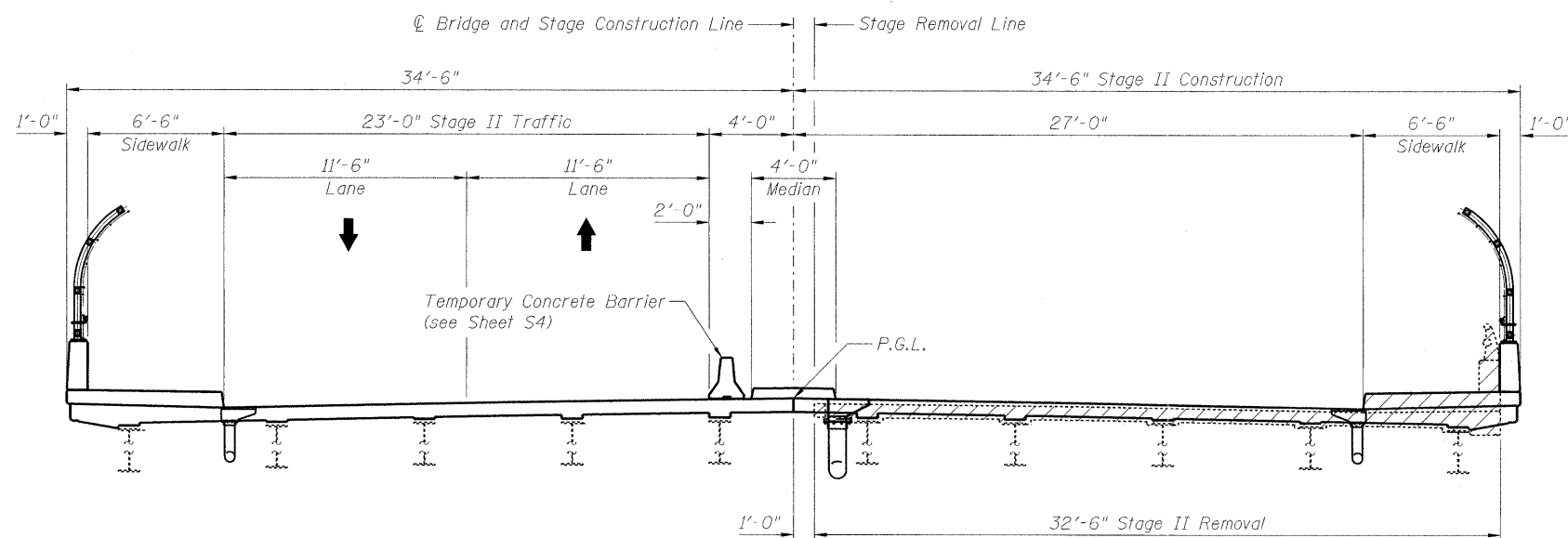
GENERAL NOTES, STAGE CONSTRUCTION & TOTAL BILL OF MATERIAL
STRUCTURE NO. 016-1015

SHEET NO. S2 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	29
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

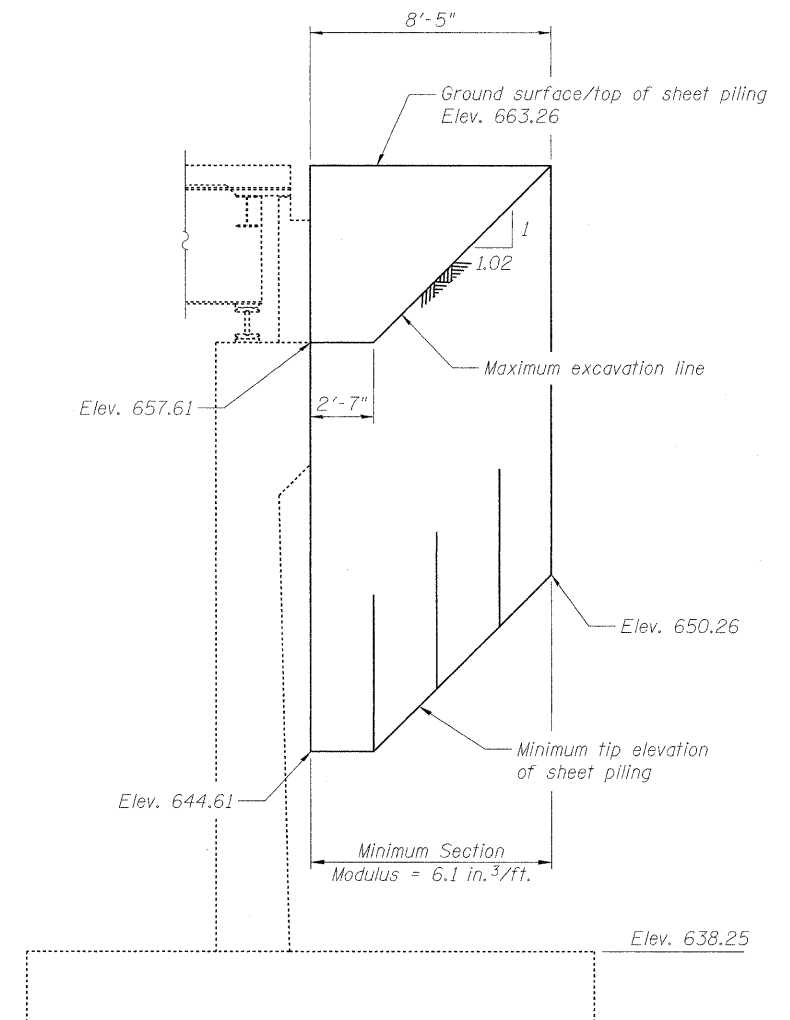


STAGE I CROSS SECTION
(Looking North)



STAGE II CROSS SECTION
(Looking North)

Notes:
Existing median to be removed during Stage I Removal. Proposed median to be constructed during Stage II Construction.
See Roadway Plans for quantity of temporary concrete barrier.



**TEMPORARY SHEET PILING
AT NORTH ABUTMENT**

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

FILE NAME = g:\project\2102155_004\addstructure\ahh\0161015_60863_003_Stage Construction.dgn



USER NAME = Zsagerb	DESIGNED - TWO	REVISED -
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PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -
	CHECKED - GSP	REVISED -

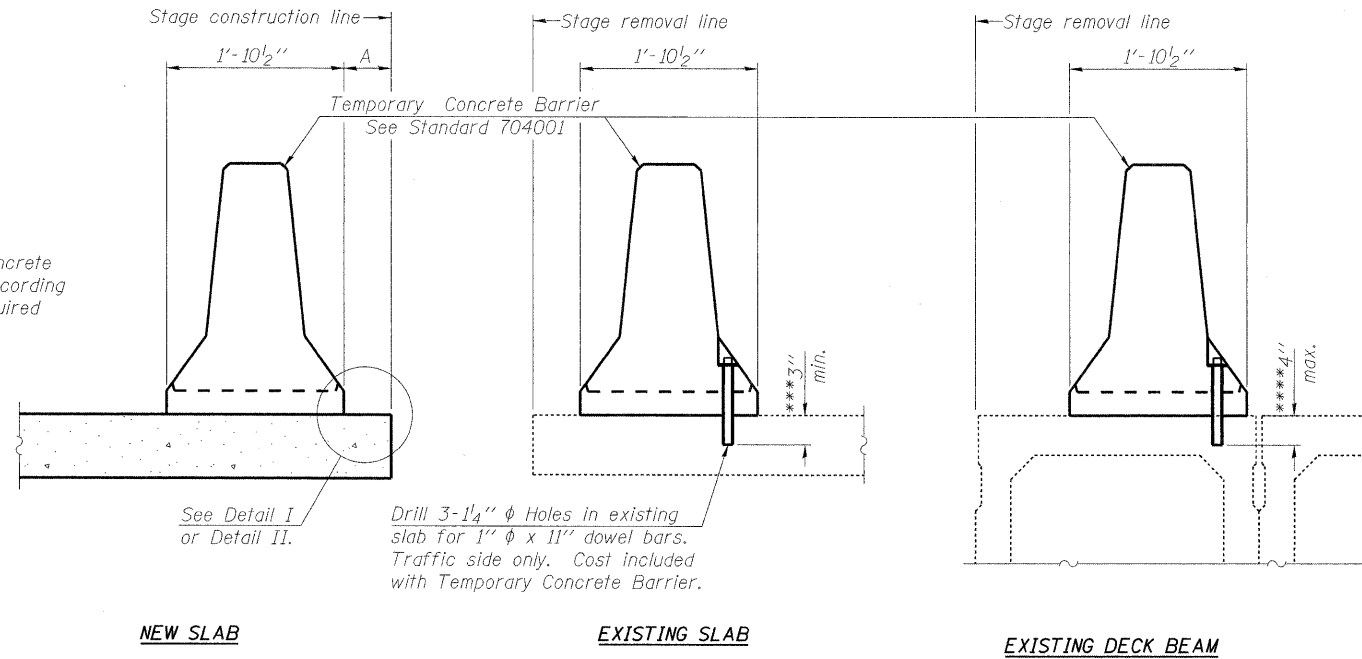
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 016-1015**

SHEET NO. S3 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	30
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

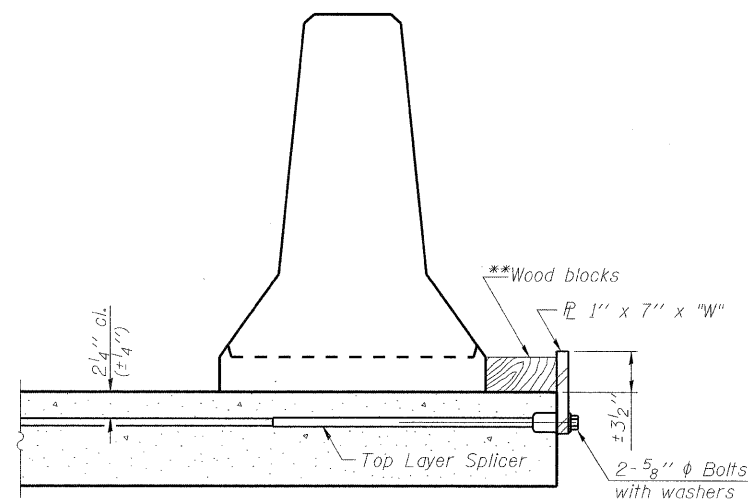


SECTIONS THRU SLAB OR DECK BEAM

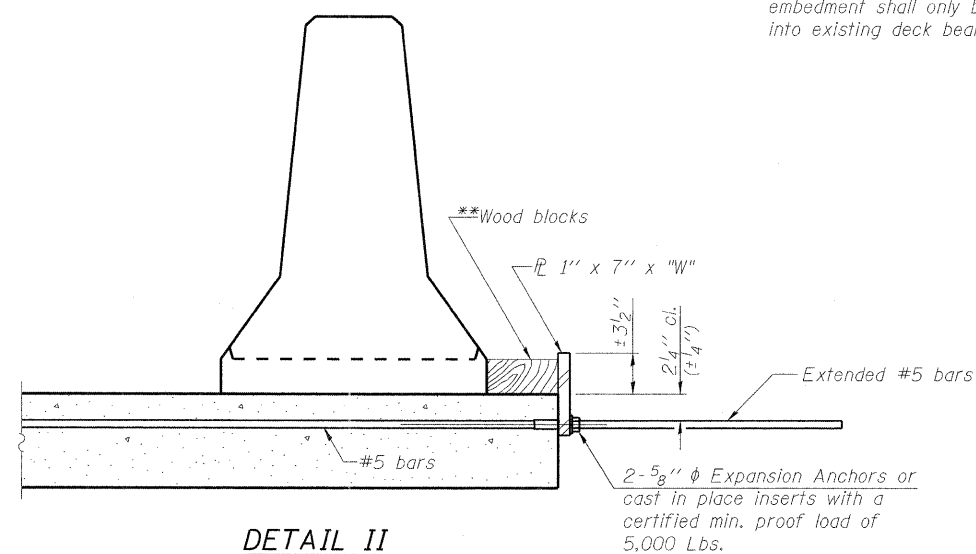
- NOTES**
- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel $\bar{L}$ to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate $\bar{C}$ of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel $\bar{L}$ to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate $\bar{C}$ of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

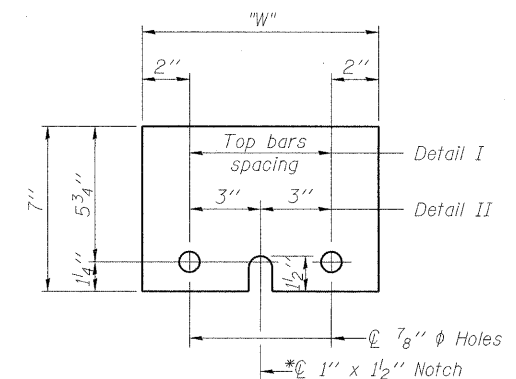
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER $\bar{L}$ 1" x 7" x "W"

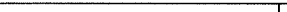
* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

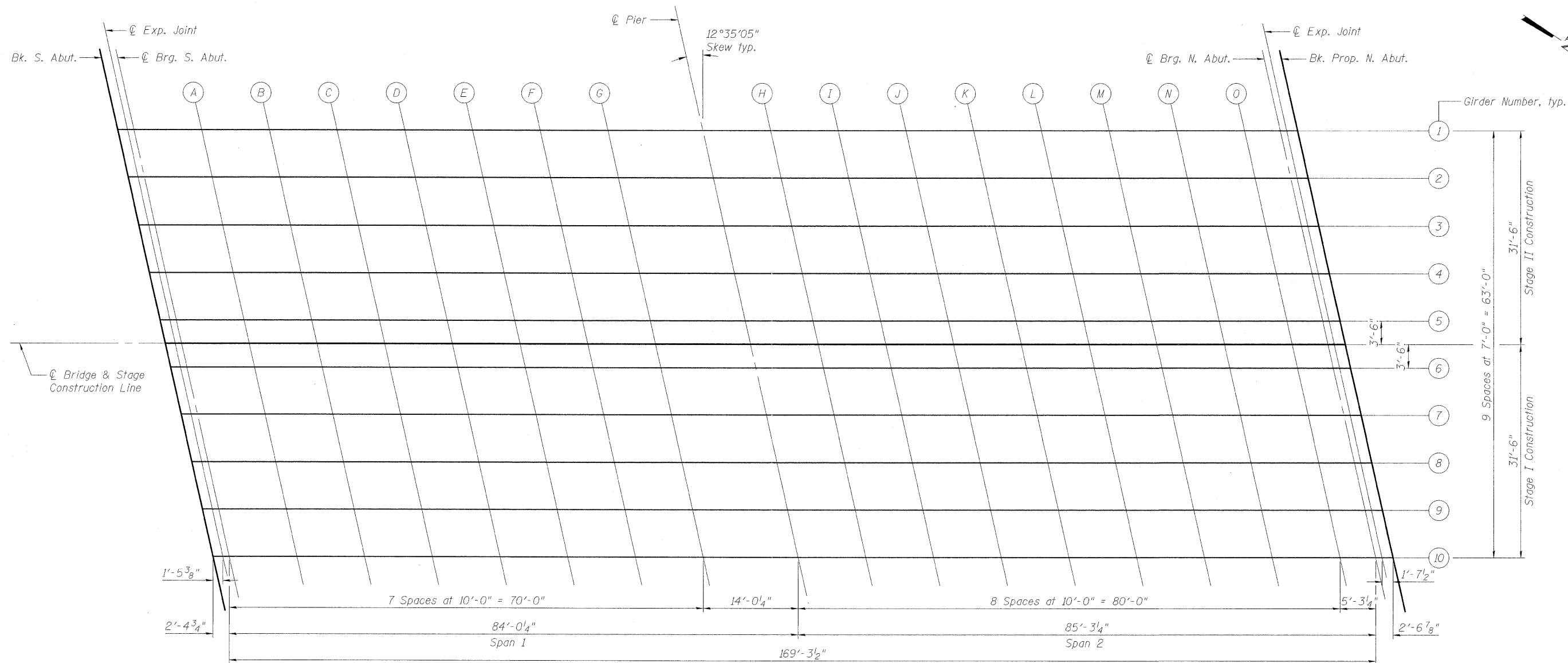
"W" = Top bars spacing + 4"

R-27

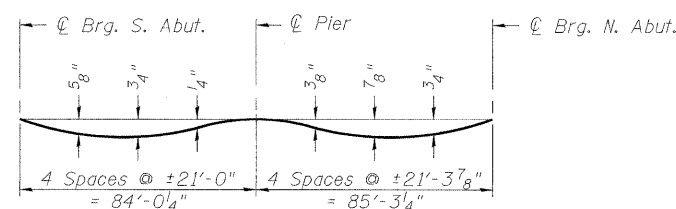
7-1-10

	USER NAME = 2sayerb	DESIGNED - TWO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 016-1015	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - BHS	REVISED -			57	1112.1B	COOK	75	31
	PLOT SCALE = N/A	DRAWN - TWO	REVISED -			CONTRACT NO. 60863				
	PLOT DATE = 8/5/2011	CHECKED - GSP	REVISED -							
SHEET NO. 54 OF 36 SHEETS						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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PLAN

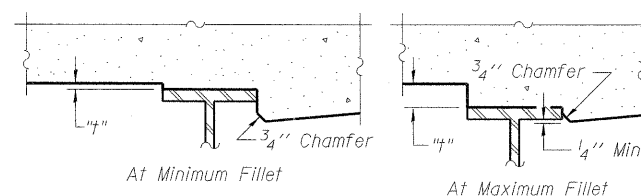


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

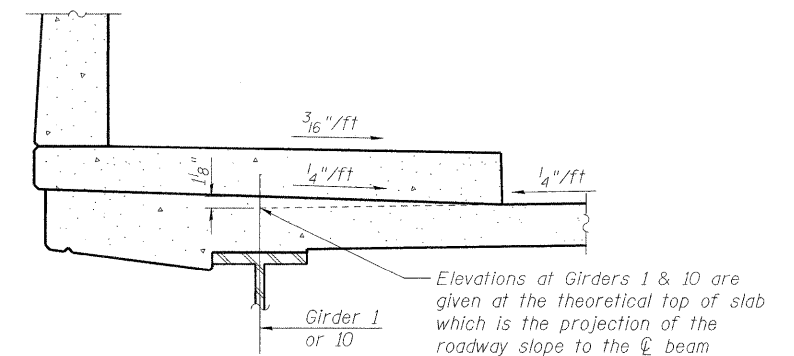
Note:

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 on Sheets S6 & S7 of 36.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on Sheet S6 & S7 of 36. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet S6 & S7 of 36, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PROJECTION UNDER SIDEWALK DETAIL



USER NAME = 2sayerb	DESIGNED - TWO	REVISED -
PLOT SCALE = N/A	CHECKED - BHS	REVISED -
PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -
	CHECKED - GSP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS (1 OF 3)
STRUCTURE NO. 016-1015

SHEET NO. 55 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	32
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	22+98.19	-31.46	662.23	662.23
⊘ Exp. Joint	22+99.65	-31.46	662.25	662.25
⊘ Brg. S. Abut.	23+00.60	-31.47	662.26	662.26
A	23+10.64	-31.49	662.40	662.43
B	23+20.67	-31.50	662.53	662.59
C	23+30.69	-31.50	662.66	662.73
D	23+40.69	-31.50	662.72	662.79
E	23+50.69	-31.50	662.76	662.81
F	23+60.69	-31.50	662.79	662.82
G	23+70.69	-31.50	662.82	662.83
⊘ Pier	23+84.71	-31.50	662.84	662.84
H	23+94.71	-31.50	662.85	662.86
I	24+04.71	-31.50	662.85	662.88
J	24+14.71	-31.50	662.85	662.90
K	24+24.71	-31.50	662.84	662.91
L	24+34.71	-31.50	662.82	662.90
M	24+44.71	-31.50	662.80	662.87
N	24+54.71	-31.50	662.77	662.82
O	24+64.71	-31.50	662.74	662.76
⊘ Brg. N. Abut.	24+69.98	-31.50	662.72	662.72
⊘ Exp. Joint	24+70.92	-31.50	662.71	662.71
Bk. Prop. N. Abut.	24+72.54	-31.50	662.71	662.71

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	22+99.78	-24.46	662.45	662.45
⊘ Exp. Joint	23+01.24	-24.47	662.47	662.47
⊘ Brg. S. Abut.	23+02.19	-24.47	662.48	662.48
A	23+12.22	-24.49	662.60	662.63
B	23+22.24	-24.50	662.72	662.77
C	23+32.25	-24.50	662.83	662.89
D	23+42.25	-24.50	662.88	662.94
E	23+52.25	-24.50	662.91	662.96
F	23+62.25	-24.50	662.94	662.97
G	23+72.25	-24.50	662.97	662.98
⊘ Pier	23+86.27	-24.50	662.99	662.99
H	23+96.27	-24.50	663.00	663.01
I	24+06.27	-24.50	663.00	663.03
J	24+16.27	-24.50	663.00	663.05
K	24+26.27	-24.50	662.98	663.05
L	24+36.27	-24.50	662.97	663.04
M	24+46.27	-24.50	662.94	663.01
N	24+56.27	-24.50	662.91	662.96
O	24+66.27	-24.50	662.88	662.90
⊘ Brg. N. Abut.	24+71.54	-24.50	662.86	662.86
⊘ Exp. Joint	24+72.48	-24.50	662.85	662.85
Bk. Prop. N. Abut.	24+74.10	-24.50	662.84	662.84

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+01.37	-17.47	662.66	662.66
⊘ Exp. Joint	23+02.83	-17.47	662.68	662.68
⊘ Brg. S. Abut.	23+03.77	-17.47	662.69	662.69
A	23+13.79	-17.49	662.79	662.83
B	23+23.81	-17.50	662.89	662.95
C	23+33.81	-17.50	662.99	663.05
D	23+43.81	-17.50	663.03	663.09
E	23+53.81	-17.50	663.06	663.11
F	23+63.81	-17.50	663.09	663.12
G	23+73.81	-17.50	663.12	663.13
⊘ Pier	23+87.83	-17.50	663.14	663.14
H	23+97.83	-17.50	663.14	663.15
I	24+07.83	-17.50	663.15	663.17
J	24+17.83	-17.50	663.14	663.19
K	24+27.83	-17.50	663.13	663.20
L	24+37.83	-17.50	663.11	663.18
M	24+47.83	-17.50	663.09	663.15
N	24+57.83	-17.50	663.05	663.10
O	24+67.83	-17.50	663.02	663.04
⊘ Brg. N. Abut.	24+73.10	-17.50	662.99	662.99
⊘ Exp. Joint	24+74.04	-17.50	662.99	662.99
Bk. Prop. N. Abut.	24+75.67	-17.50	662.98	662.98

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+02.96	-10.47	662.86	662.86
⊘ Exp. Joint	23+04.41	-10.48	662.87	662.87
⊘ Brg. S. Abut.	23+05.35	-10.48	662.88	662.88
A	23+15.36	-10.49	662.97	663.00
B	23+25.37	-10.50	663.05	663.10
C	23+35.37	-10.50	663.12	663.19
D	23+45.38	-10.50	663.16	663.23
E	23+55.38	-10.50	663.20	663.25
F	23+65.38	-10.50	663.22	663.26
G	23+75.38	-10.50	663.25	663.26
⊘ Pier	23+89.40	-10.50	663.27	663.27
H	23+99.40	-10.50	663.27	663.28
I	24+09.40	-10.50	663.27	663.30
J	24+19.40	-10.50	663.27	663.32
K	24+29.40	-10.50	663.25	663.32
L	24+39.40	-10.50	663.23	663.31
M	24+49.40	-10.50	663.21	663.28
N	24+59.40	-10.50	663.18	663.23
O	24+69.40	-10.50	663.14	663.16
⊘ Brg. N. Abut.	24+74.67	-10.50	663.12	663.12
⊘ Exp. Joint	24+75.61	-10.50	663.11	663.11
Bk. Prop. N. Abut.	24+77.23	-10.50	663.10	663.10

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+04.54	-3.48	663.04	663.04
⊘ Exp. Joint	23+05.99	-3.48	663.05	663.05
⊘ Brg. S. Abut.	23+06.93	-3.48	663.05	663.05
A	23+16.93	-3.49	663.12	663.15
B	23+26.94	-3.50	663.18	663.24
C	23+36.94	-3.50	663.24	663.30
D	23+46.94	-3.50	663.28	663.34
E	23+56.94	-3.50	663.31	663.36
F	23+66.94	-3.50	663.34	663.37
G	23+76.94	-3.50	663.36	663.37
⊘ Pier	23+90.96	-3.50	663.38	663.38
H	24+00.96	-3.50	663.38	663.39
I	24+10.96	-3.50	663.38	663.41
J	24+20.96	-3.50	663.37	663.42
K	24+30.96	-3.50	663.36	663.43
L	24+40.96	-3.50	663.34	663.41
M	24+50.96	-3.50	663.31	663.38
N	24+60.96	-3.50	663.28	663.33
O	24+70.96	-3.50	663.24	663.26
⊘ Brg. N. Abut.	24+76.23	-3.50	663.22	663.22
⊘ Exp. Joint	24+77.17	-3.50	663.21	663.21
Bk. Prop. N. Abut.	24+78.79	-3.50	663.21	663.21

⊘ BRIDGE & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+05.33	0.02	663.12	663.12
⊘ Exp. Joint	23+06.78	0.02	663.13	663.13
⊘ Brg. S. Abut.	23+07.72	0.02	663.14	663.14
A	23+17.72	0.00	663.20	663.23
B	23+27.72	0.00	663.25	663.30
C	23+37.72	0.00	663.29	663.36
D	23+47.72	0.00	663.33	663.40
E	23+57.72	0.00	663.37	663.42
F	23+67.72	0.00	663.39	663.43
G	23+77.72	0.00	663.41	663.43
⊘ Pier	23+91.74	0.00	663.43	663.43
H	24+01.74	0.00	663.44	663.45
I	24+11.74	0.00	663.44	663.46
J	24+21.74	0.00	663.43	663.48
K	24+31.74	0.00	663.41	663.48
L	24+41.74	0.00	663.39	663.47
M	24+51.74	0.00	663.37	663.43
N	24+61.74	0.00	663.33	663.38
O	24+71.74	0.00	663.29	663.31
⊘ Brg. N. Abut.	24+77.01	0.00	663.27	663.27
⊘ Exp. Joint	24+77.95	0.00	663.26	663.26
Bk. Prop. N. Abut.	24+79.57	0.00	663.26	663.26

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+06.12	3.52	663.16	663.16
⊘ Exp. Joint	23+07.57	3.52	663.17	663.17
⊘ Brg. S. Abut.	23+08.51	3.52	663.18	663.18
A	23+18.50	3.50	663.22	663.25
B	23+28.50	3.50	663.26	663.32
C	23+38.50	3.50	663.30	663.36
D	23+48.50	3.50	663.32	663.39
E	23+58.50	3.50	663.34	663.39
F	23+68.50	3.50	663.36	663.39
G	23+78.50	3.50	663.36	663.38
⊘ Pier	23+92.52	3.50	663.38	663.38
H	24+02.52	3.50	663.38	663.39
I	24+12.52	3.50	663.38	663.41
J	24+22.52	3.50	663.37	663.42
K	24+32.52	3.50	663.36	663.42
L	24+42.52	3.50	663.34	663.41
M	24+52.52	3.50	663.31	663.38
N	24+62.52	3.50	663.27	663.32
O	24+72.52	3.50	663.23	663.25
⊘ Brg. N. Abut.	24+77.79	3.50	663.21	663.21
⊘ Exp. Joint	24+78.73	3.50	663.21	663.21
Bk. Prop. N. Abut.	24+80.35	3.50	663.20	663.20

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USER NAME = 2sagerb
PLOT SCALE = N/A
PLOT DATE = 8/5/2011

DESIGNED - TWO
CHECKED - BHS
DRAWN - TWO
CHECKED - GSP

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS (2 OF 3)
STRUCTURE NO. 016-1015

SHEET NO. S6 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	33
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS/ FED. AID PROJECT				

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+07.69	10.52	663.24	663.24
⊘ Exp. Joint	23+09.14	10.52	663.24	663.24
⊘ Brg. S. Abut.	23+10.08	10.51	663.25	663.25
A	23+20.07	10.50	663.27	663.30
B	23+30.06	10.50	663.28	663.34
C	23+40.06	10.50	663.29	663.36
D	23+50.06	10.50	663.29	663.36
E	23+60.06	10.50	663.29	663.34
F	23+70.06	10.50	663.27	663.31
G	23+80.06	10.50	663.25	663.27
⊘ Pier	23+94.08	10.50	663.27	663.27
H	24+04.08	10.50	663.27	663.28
I	24+14.08	10.50	663.27	663.30
J	24+24.08	10.50	663.26	663.31
K	24+34.08	10.50	663.24	663.31
L	24+44.08	10.50	663.22	663.30
M	24+54.08	10.50	663.19	663.26
N	24+64.08	10.50	663.16	663.21
O	24+74.08	10.50	663.12	663.14
⊘ Brg. N. Abut.	24+79.35	10.50	663.09	663.09
⊘ Exp. Joint	24+80.29	10.50	663.09	663.09
Bk. Prop. N. Abut.	24+81.92	10.50	663.08	663.08

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+09.26	17.51	663.31	663.31
⊘ Exp. Joint	23+10.71	17.51	663.31	663.31
⊘ Brg. S. Abut.	23+11.65	17.51	663.31	663.31
A	23+21.63	17.50	663.31	663.34
B	23+31.63	17.50	663.30	663.35
C	23+41.63	17.50	663.28	663.34
D	23+51.63	17.50	663.25	663.31
E	23+61.63	17.50	663.21	663.26
F	23+71.63	17.50	663.17	663.20
G	23+81.63	17.50	663.13	663.14
⊘ Pier	23+95.65	17.50	663.14	663.14
H	24+05.65	17.50	663.15	663.15
I	24+15.65	17.50	663.14	663.17
J	24+25.65	17.50	663.13	663.18
K	24+35.65	17.50	663.11	663.18
L	24+45.65	17.50	663.09	663.17
M	24+55.65	17.50	663.06	663.13
N	24+65.65	17.50	663.03	663.07
O	24+75.65	17.50	662.98	663.00
⊘ Brg. N. Abut.	24+80.92	17.50	662.96	662.96
⊘ Exp. Joint	24+81.86	17.50	662.95	662.95
Bk. Prop. N. Abut.	24+83.48	17.50	662.95	662.95

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+10.83	24.51	663.37	663.37
⊘ Exp. Joint	23+12.28	24.51	663.37	663.37
⊘ Brg. S. Abut.	23+13.22	24.51	663.37	663.37
A	23+23.20	24.50	663.34	663.37
B	23+33.19	24.50	663.30	663.36
C	23+43.19	24.50	663.25	663.32
D	23+53.19	24.50	663.19	663.25
E	23+63.19	24.50	663.12	663.17
F	23+73.19	24.50	663.04	663.07
G	23+83.19	24.50	662.99	663.00
⊘ Pier	23+97.21	24.50	663.00	663.00
H	24+07.21	24.50	663.00	663.01
I	24+17.21	24.50	662.99	663.02
J	24+27.21	24.50	662.98	663.03
K	24+37.21	24.50	662.97	663.03
L	24+47.21	24.50	662.94	663.02
M	24+57.21	24.50	662.91	662.98
N	24+67.21	24.50	662.87	662.92
O	24+77.21	24.50	662.83	662.85
⊘ Brg. N. Abut.	24+82.48	24.50	662.81	662.81
⊘ Exp. Joint	24+83.42	24.50	662.80	662.80
Bk. Prop. N. Abut.	24+85.04	24.50	662.79	662.79

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	23+12.40	31.51	663.42	663.42
⊘ Exp. Joint	23+13.85	31.51	663.42	663.42
⊘ Brg. S. Abut.	23+14.78	31.51	663.41	663.41
A	23+24.76	31.50	663.36	663.39
B	23+34.75	31.50	663.30	663.35
C	23+44.75	31.50	663.21	663.28
D	23+54.75	31.50	663.12	663.18
E	23+64.75	31.50	663.01	663.07
F	23+74.75	31.50	662.90	662.94
G	23+84.75	31.50	662.84	662.85
⊘ Pier	23+98.77	31.50	662.85	662.85
H	24+08.77	31.50	662.85	662.86
I	24+18.77	31.50	662.85	662.87
J	24+28.77	31.50	662.83	662.88
K	24+38.77	31.50	662.82	662.88
L	24+48.77	31.50	662.79	662.87
M	24+58.77	31.50	662.76	662.83
N	24+68.77	31.50	662.72	662.77
O	24+78.77	31.50	662.68	662.70
⊘ Brg. N. Abut.	24+84.04	31.50	662.65	662.65
⊘ Exp. Joint	24+84.98	31.50	662.65	662.65
Bk. Prop. N. Abut.	24+86.60	31.50	662.64	662.64

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USER NAME = 2sayerb
PLOT SCALE = N/A
PLOT DATE = 8/5/2011

DESIGNED - TWO
CHECKED - BHS
DRAWN - TWO
CHECKED - GSP

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS (3 OF 3)
STRUCTURE NO. 016-1015

SHEET NO. 57 OF 36 SHEETS

F.A.I. RTE. 57	SECTION 1112.1B	COUNTY COOK	TOTAL SHEETS 75	SHEET NO. 34
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

*SB FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	22+37.65	-33.51	661.15
A1	22+47.85	-33.47	661.34
A2	22+58.04	-33.39	661.52
S. End of Vaulted Span	22+68.20	-33.27	661.70
B1	22+78.30	-33.35	661.87
B2	22+88.38	-33.42	662.02
N. End of Vaulted Span	22+99.11	-33.46	662.18

SB CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	22+39.27	-27.01	661.46
A1	22+49.42	-27.05	661.62
A2	22+59.56	-27.05	661.79
S. End of Vaulted Span	22+69.68	-27.01	661.95
B1	22+79.77	-27.02	662.10
B2	22+89.85	-27.00	662.24
N. End of Vaulted Span	23+00.59	-26.97	662.39

SB LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	22+42.48	-14.02	662.05
A1	22+52.58	-14.02	662.19
A2	22+62.66	-14.02	662.32
S. End of Vaulted Span	22+72.73	-14.01	662.44
B1	22+82.79	-14.01	662.56
B2	22+92.83	-14.01	662.67
N. End of Vaulted Span	23+03.53	-14.00	662.78

CL BRIDGE & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	22+46.04	0.55	662.65
A1	22+56.03	0.39	662.74
A2	22+66.03	0.26	662.83
S. End of Vaulted Span	22+76.03	0.16	662.91
B1	22+86.03	0.10	662.99
B2	22+96.03	0.05	663.06
N. End of Vaulted Span	23+06.70	0.02	663.13

NB LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	22+49.27	13.96	663.08
A1	22+59.26	13.96	663.13
A2	22+69.24	13.97	663.17
S. End of Vaulted Span	22+79.22	13.98	663.21
B1	22+89.20	13.98	663.24
B2	22+99.19	13.99	663.26
N. End of Vaulted Span	23+09.84	13.99	663.28

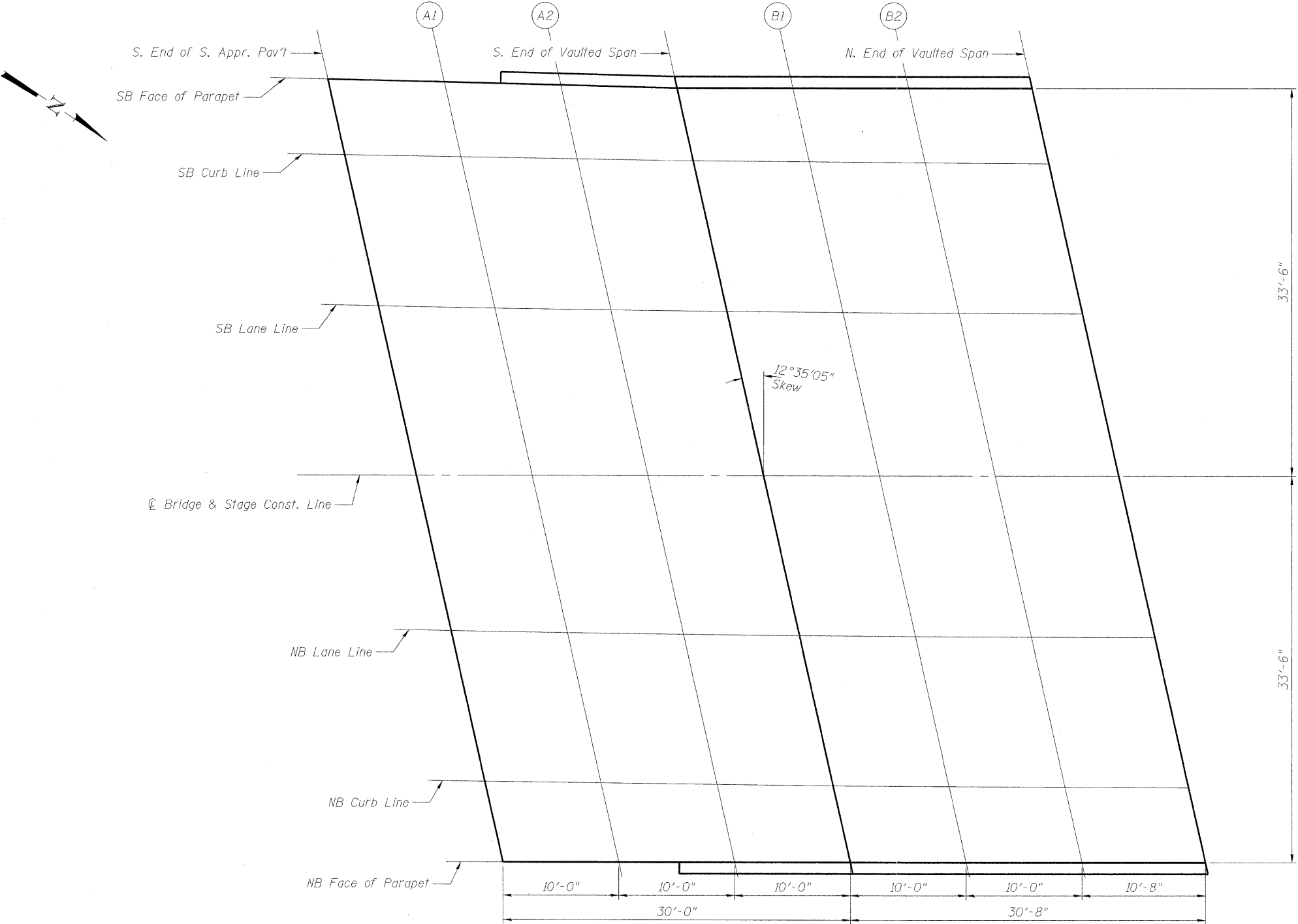
NB CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	22+52.37	26.95	663.47
A1	22+62.30	26.93	663.47
A2	22+72.25	26.94	663.47
S. End of Vaulted Span	22+82.20	26.97	663.46
B1	22+92.15	26.97	663.44
B2	23+02.12	26.98	663.42
N. End of Vaulted Span	23+12.76	27.01	663.39

*NB FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pav't	22+54.02	33.92	663.67
A1	22+63.91	33.79	663.64
A2	22+73.81	33.68	663.61
S. End of Vaulted Span	22+83.72	33.61	663.58
B1	22+93.65	33.56	663.54
B2	23+03.59	33.53	663.49
N. End of Vaulted Span	23+14.21	33.51	663.43

*Note: Elevations at face of parapet are given at the theoretical top of roadway surface which is the projection of the roadway slope beneath the superimposed sidewalk. See Sheet S9 for detail.



PLAN

FILE NAME = g:\project\2102195_004\road\structure\sh\0161015_00863_008.Appr Elev 1.dgn

SB FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pav't	24+71.58	-33.50	662.67
C1	24+81.58	-33.50	662.62
C2	24+91.58	-33.50	662.57
N. End of N. Appr. Pav't	25+01.58	-33.50	662.51

SB CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pav't	24+73.03	-27.00	662.80
C1	24+83.03	-27.00	662.75
C2	24+93.03	-27.00	662.70
N. End of N. Appr. Pav't	25+03.03	-27.00	662.64

SB LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pav't	24+75.93	-14.00	663.06
C1	24+85.93	-14.00	663.01
C2	24+95.93	-14.00	662.95
N. End of N. Appr. Pav't	25+05.93	-14.00	662.89

CL BRIDGE & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pav't	24+79.06	0.00	663.26
C1	24+89.06	0.00	663.21
C2	24+99.06	0.00	663.15
N. End of N. Appr. Pav't	25+09.06	0.00	663.09

NB LANE LINE

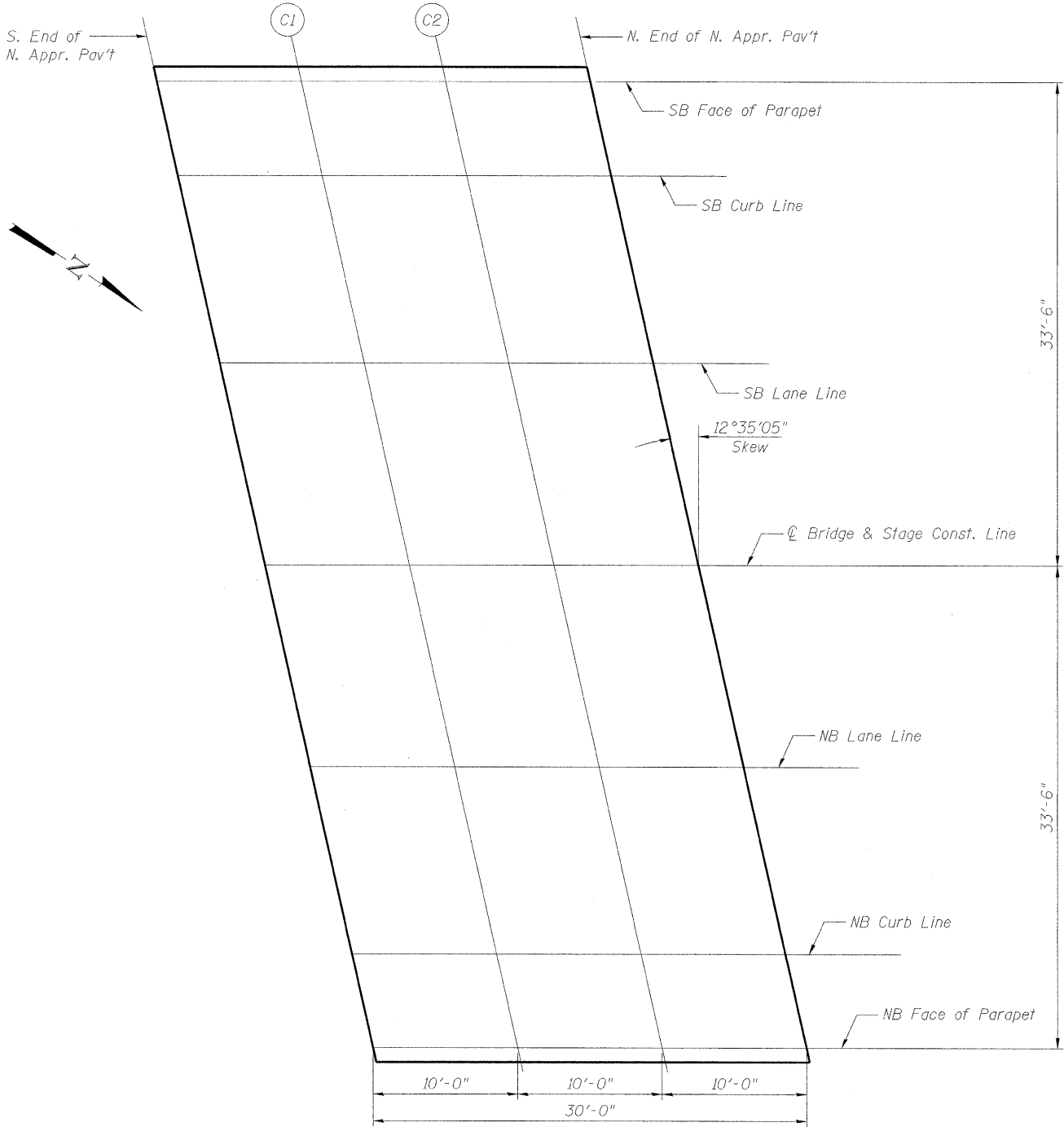
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pav't	24+82.19	14.00	663.03
C1	24+92.19	14.00	662.97
C2	25+02.19	14.00	662.91
N. End of N. Appr. Pav't	25+12.19	14.00	662.85

NB CURB LINE

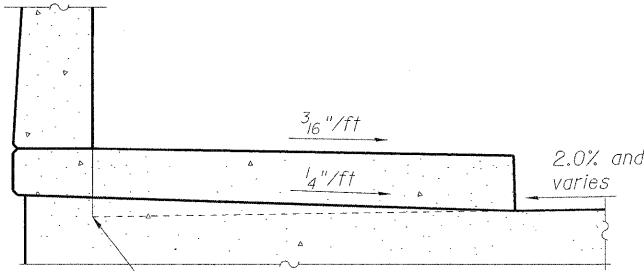
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pav't	24+85.09	27.00	662.74
C1	24+95.09	27.00	662.69
C2	25+05.09	27.00	662.62
N. End of N. Appr. Pav't	25+15.09	27.00	662.56

NB FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pav't	24+86.54	33.50	662.60
C1	24+96.54	33.50	662.54
C2	25+06.54	33.50	662.48
N. End of N. Appr. Pav't	25+16.54	33.50	662.41



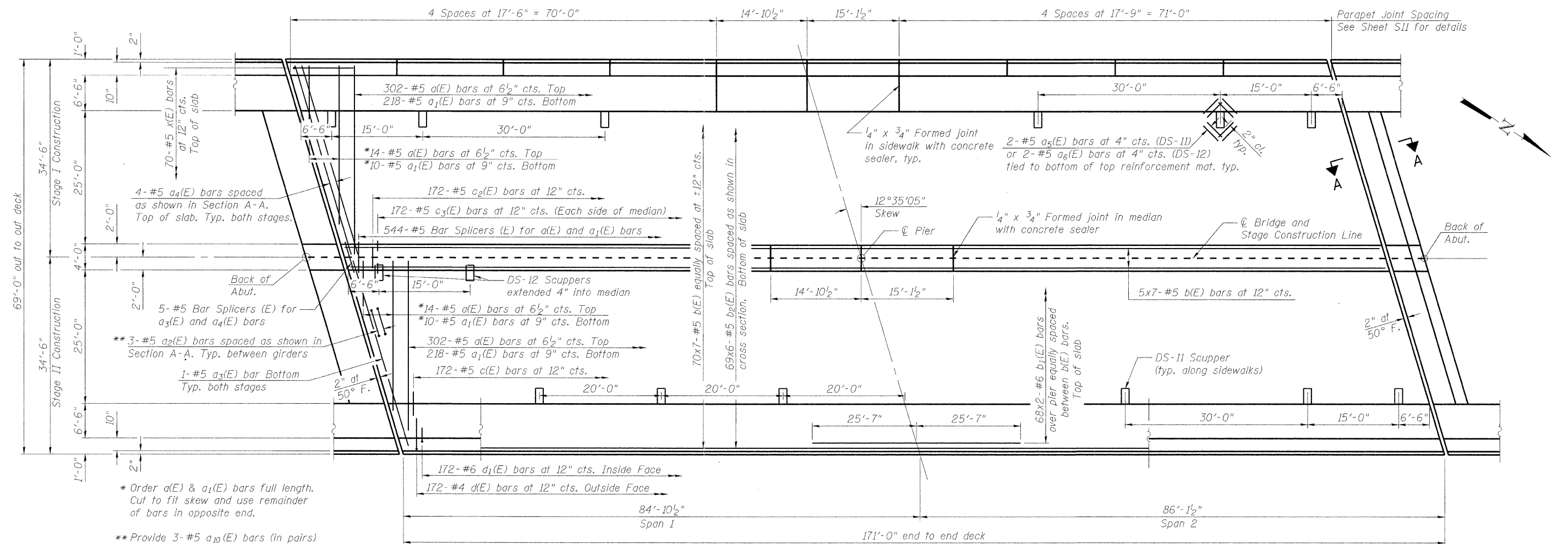
PLAN



Elevations at face of parapet are given at the theoretical top of roadway surface which is the projection of the roadway slope beneath the superimposed sidewalk.

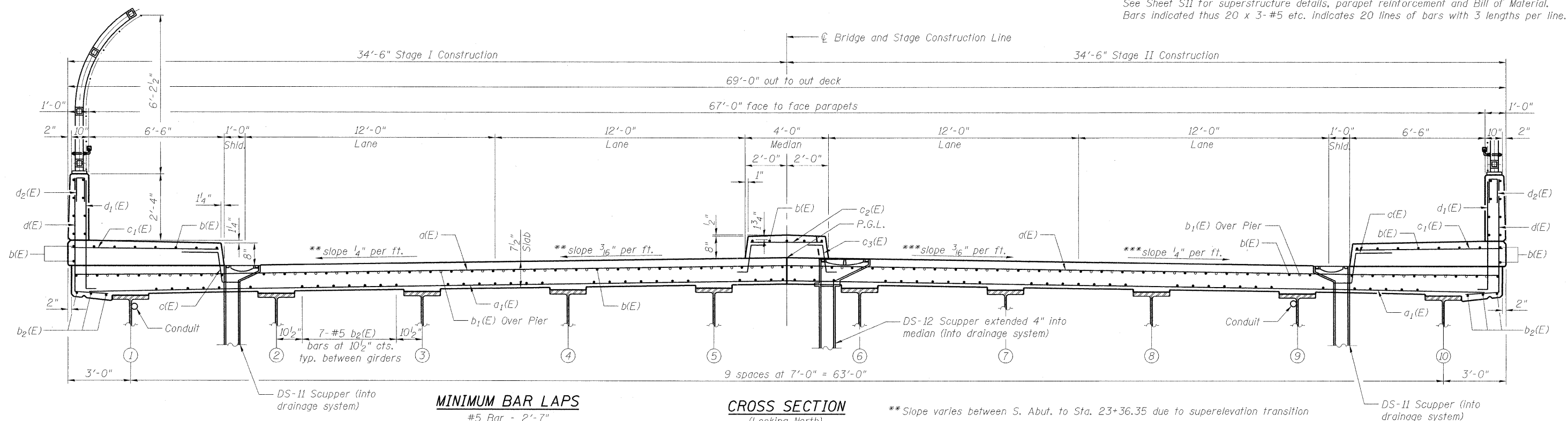
PROJECTION UNDER SIDEWALK DETAIL

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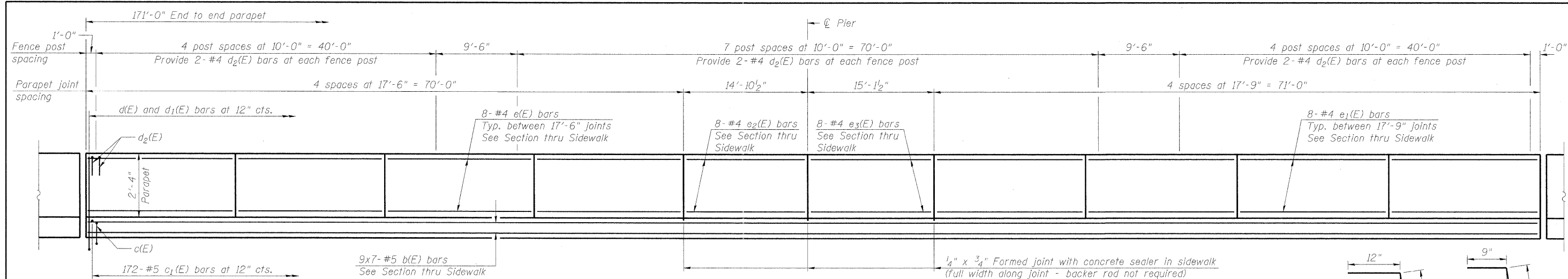
PLAN

Notes:
See Sheet S11 for superstructure details, parapet reinforcement and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

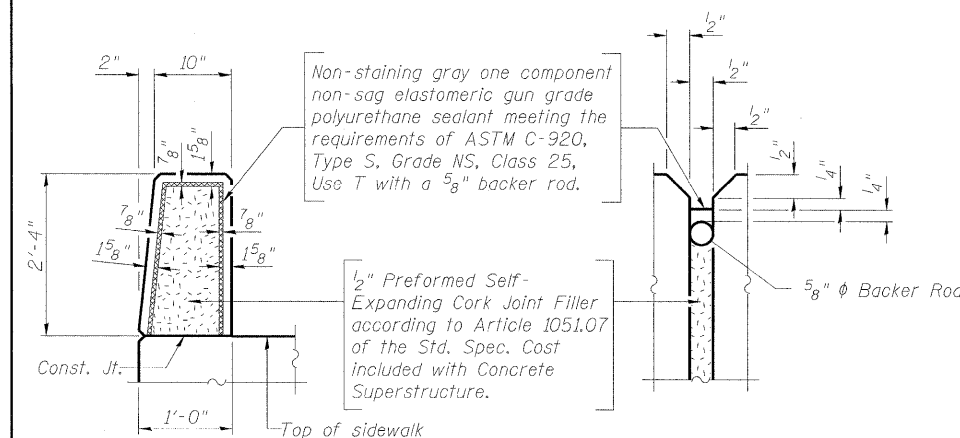


CROSS SECTION
(Looking North)

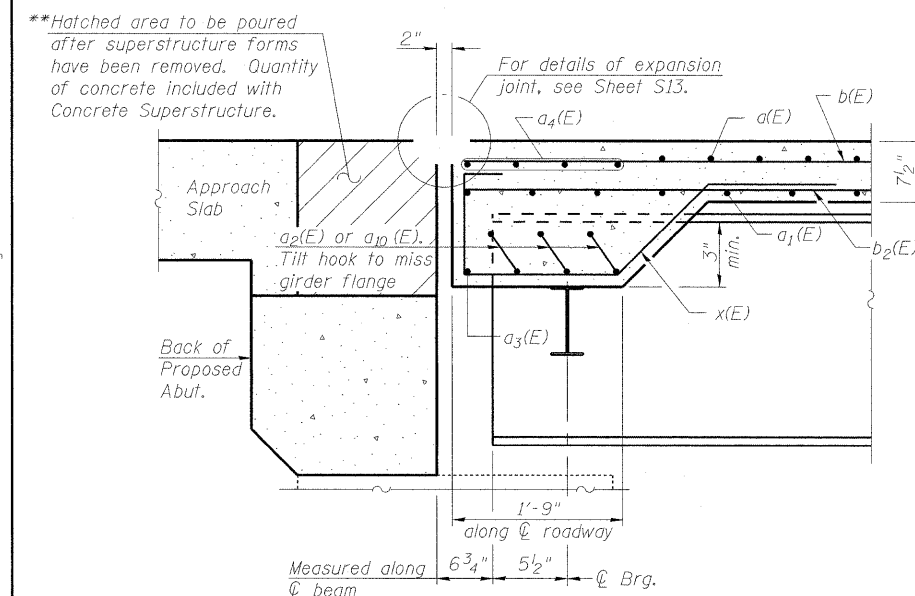
***Slope varies between S. Abut. to Sta. 23+78.98 due to superelevation transition



INSIDE ELEVATION OF PARAPET AND SIDEWALK
(Looking West)



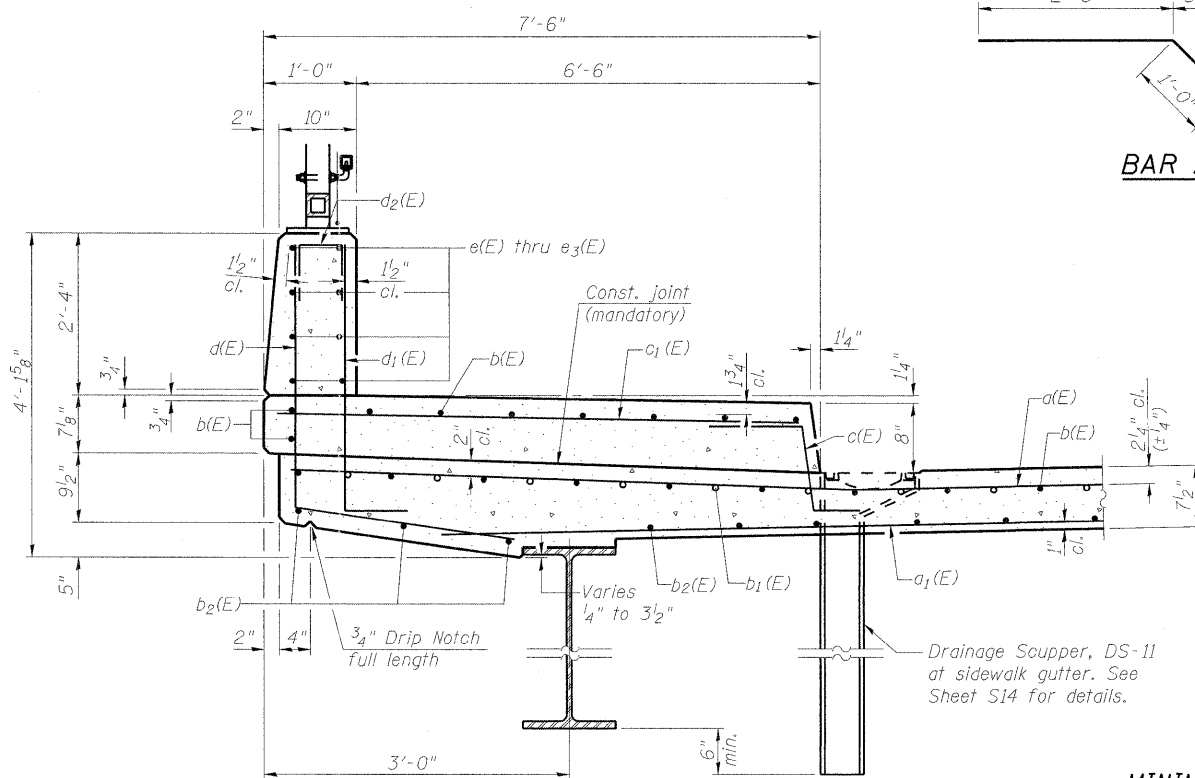
PARAPET JOINT DETAILS



SECTION A-A

(North Abutment shown. Deck detail at South Abutment similar. See Sheet S17 for Vaulted Approach Span detail on South Abutment backwall.)

**Note: Hatched area is at North Abutment only.



SECTION THRU SIDEWALK

MINIMUM BAR LAP

#5 bar = 2'-7"

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	632	#5	34'-0"	—
a1(E)	456	#5	33'-4"	—
a2(E)	48	#5	8'-0"	U
a3(E)	4	#5	31'-11"	—
a4(E)	16	#5	35'-0"	—
a5(E)	96	#5	1'-6"	—
a6(E)	16	#5	2'-0"	—
a10(E)	12	#5	3'-10"	U
b(E)	651	#5	26'-8"	—
b1(E)	136	#6	27'-2"	—
b2(E)	414	#5	30'-8"	—
c(E)	344	#5	2'-4"	└
c1(E)	344	#5	7'-0"	—
c2(E)	172	#5	3'-6"	—
c3(E)	344	#5	2'-1"	└
d(E)	344	#4	5'-4"	L
d1(E)	344	#6	4'-4"	L
d2(E)	72	#4	2'-0"	n
e(E)	64	#4	17'-2"	—
e1(E)	64	#4	17'-5"	—
e2(E)	16	#4	14'-6"	—
e3(E)	16	#4	14'-9"	—
x(E)	140	#5	6'-5"	└
Reinforcement Bars, Epoxy Coated			Pound	87,530
Concrete Superstructure			Cu. Yds.	407.1

Bars indicated thus 9x7-#5 etc. indicates 9 lines of bars with 7 lengths per line.

FILE NAME = g:\pvc\sect\2082155.BPA\sect\structure\sh\1\01015.60863.011.Dwg 2.dgn



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PLOT SCALE = N/A
PLOT DATE = 8/17/2011

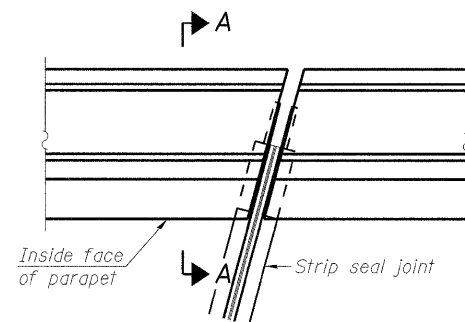
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DRAWN - TWO
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REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

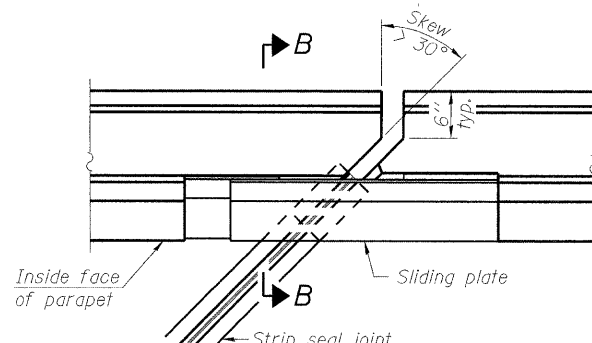
**PARAPET AND SIDEWALK ELEVATION AND DETAILS
STRUCTURE NO. 016-1015**

SHEET NO. S11 OF 36 SHEETS

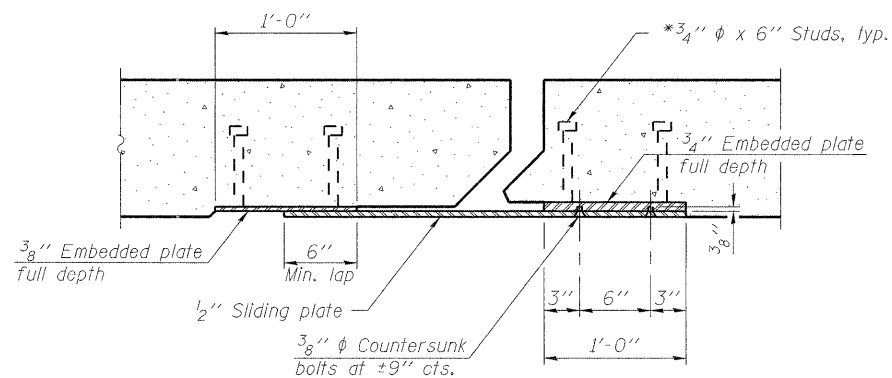
F.A.I. RTE. 57 SECTION 1112.1B COUNTY COOK TOTAL SHEETS 75 SHEET NO. 38
CONTRACT NO. 60863
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



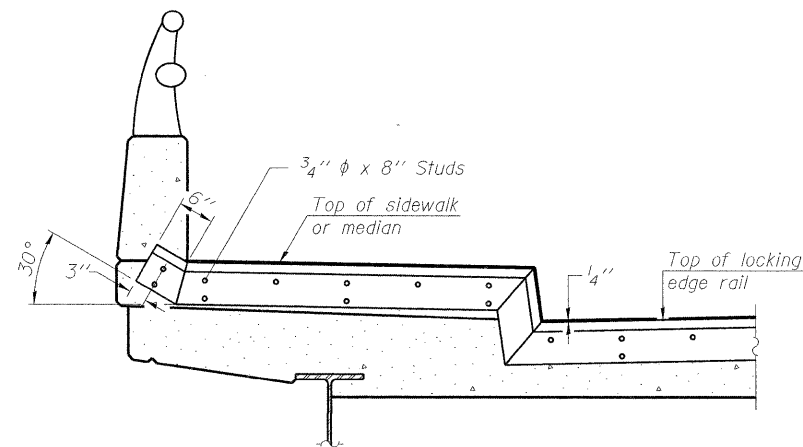
PLAN
(For skews $\leq 30^\circ$)



PLAN
(For skews $> 30^\circ$)
Showing point block

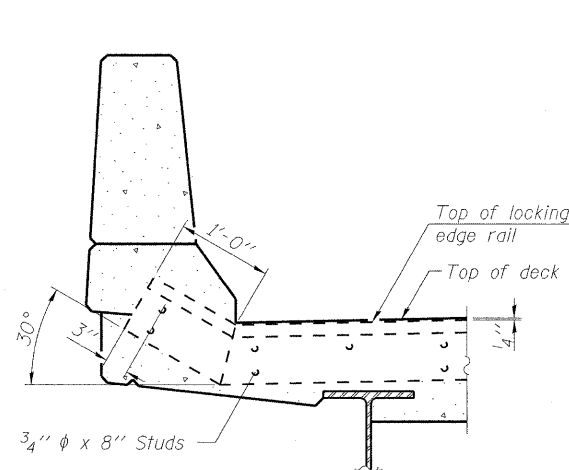


SECTION C-C

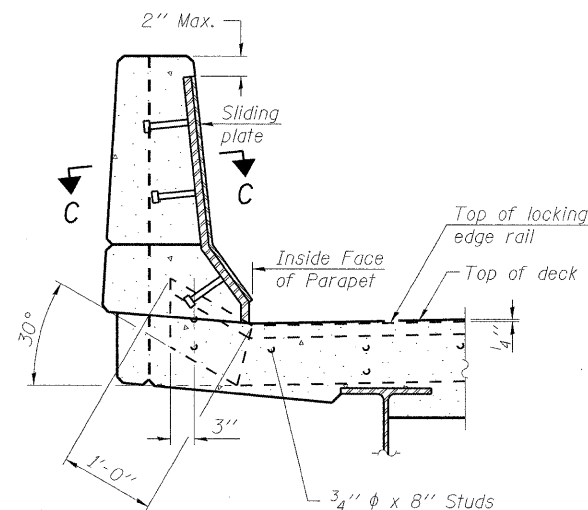


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

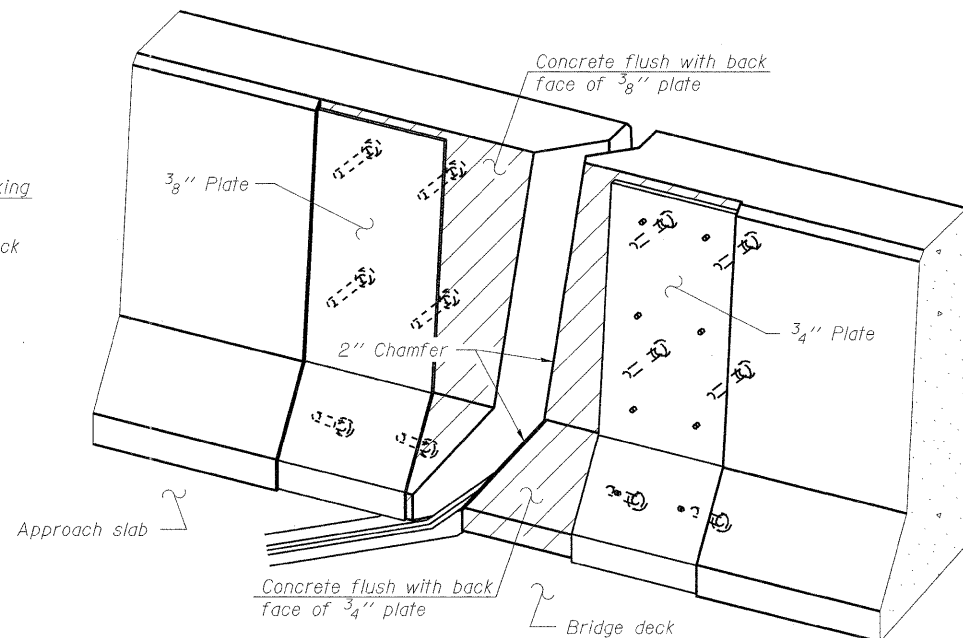
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $1/4$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

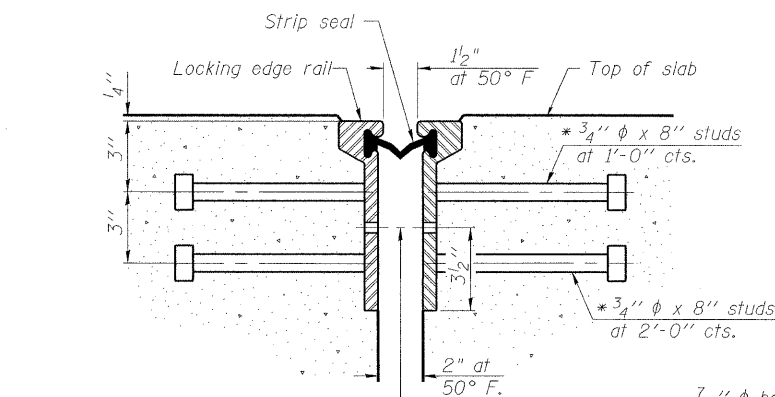
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

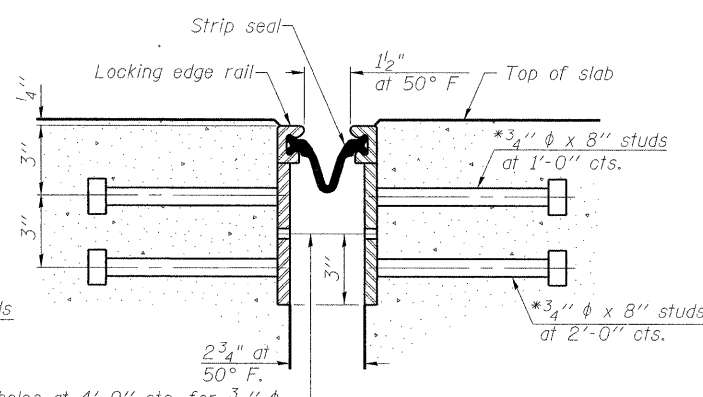
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be $3/16$ ", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.



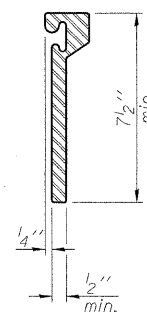
SECTION THRU
ROLLED RAIL JOINT



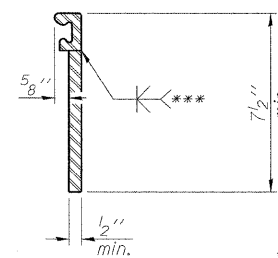
SECTION THRU
WELDED RAIL JOINT

$7/16$ " ϕ holes at 4'-0" cts. for $3/8$ " ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

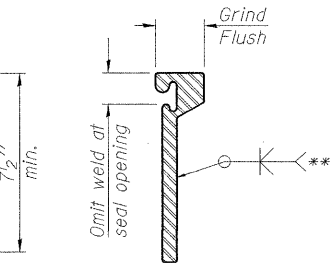
$7/16$ " ϕ holes at 4'-0" cts. for $3/8$ " ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



ROLLED
EXTRUDED RAIL



WELDED RAIL



LOCKING EDGE
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	146.0

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

PREFORMED JOINT STRIP SEAL STRUCTURE NO. 016-1015

SHEET NO. S13 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	40
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

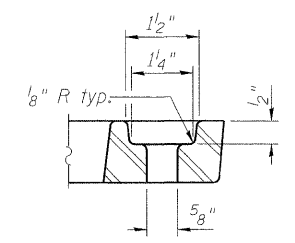
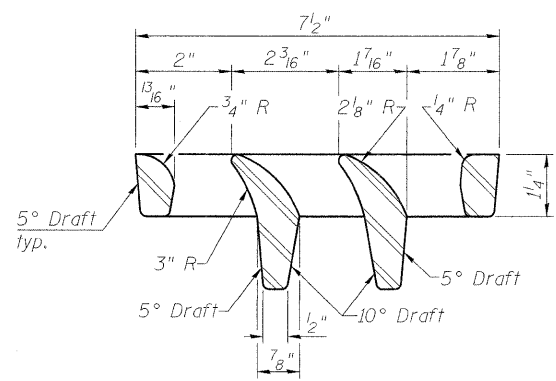
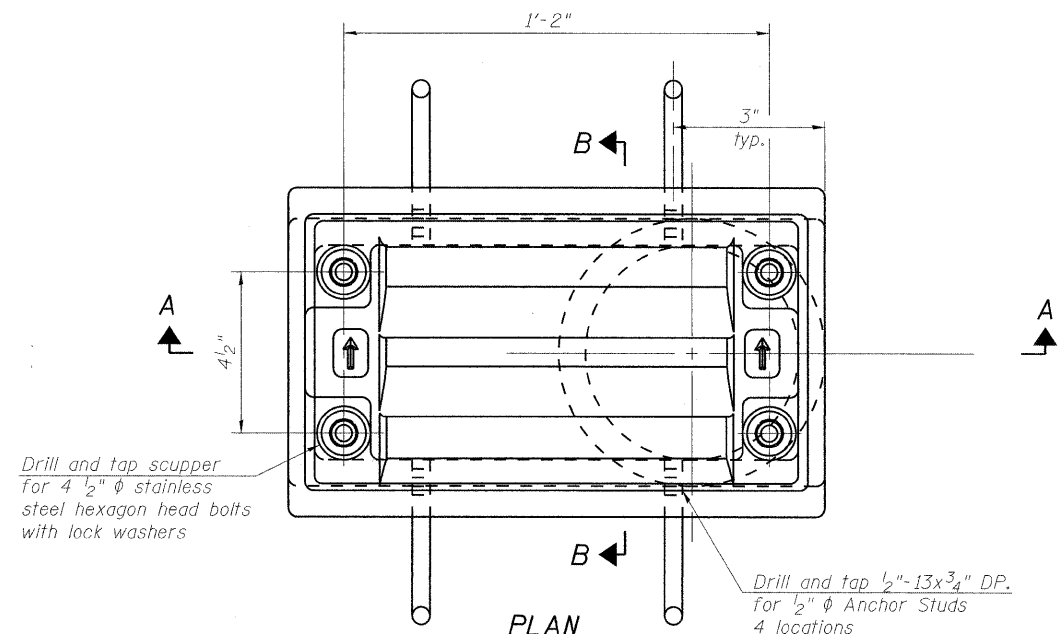
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EJ-SSJ

7-1-10



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PLOT SCALE = N/A	CHECKED - BHS	REVISED -
PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -
	CHECKED - GSP	REVISED -



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

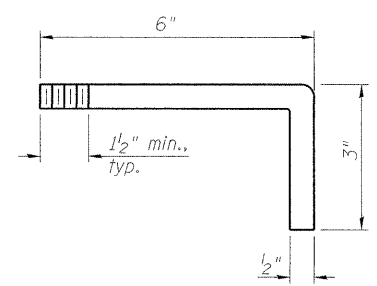
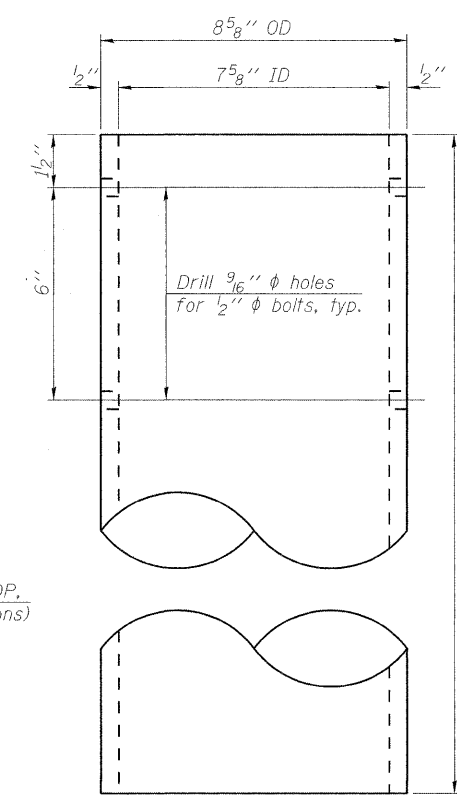
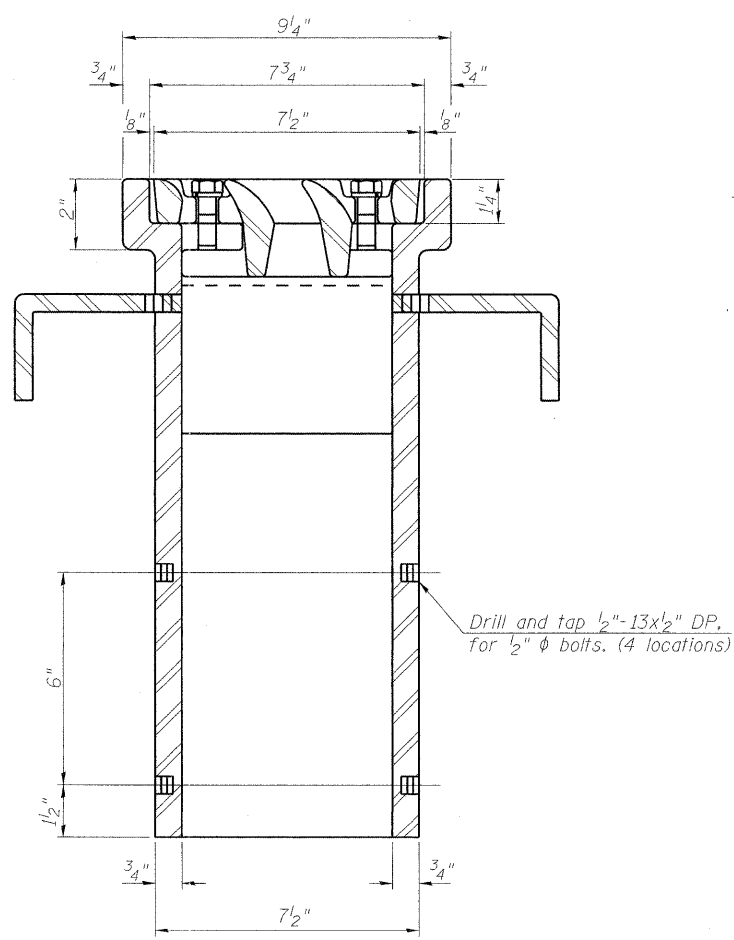
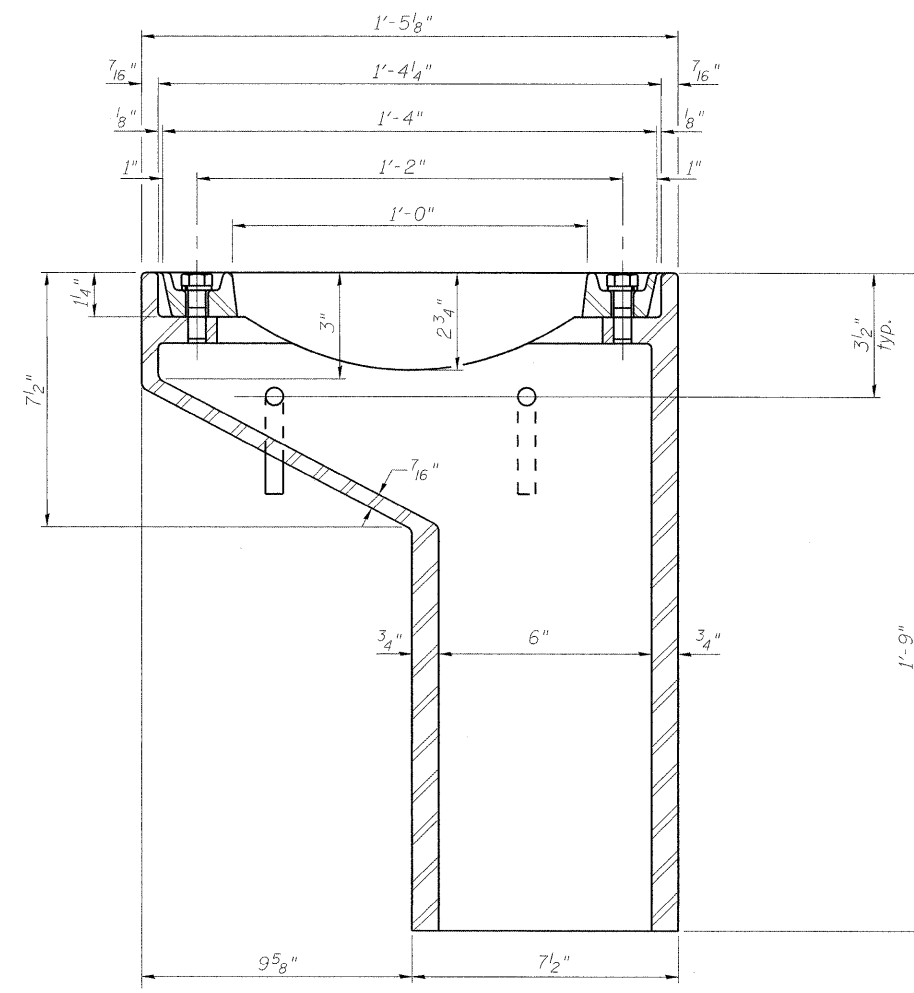
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	12

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DS-11

7-1-10



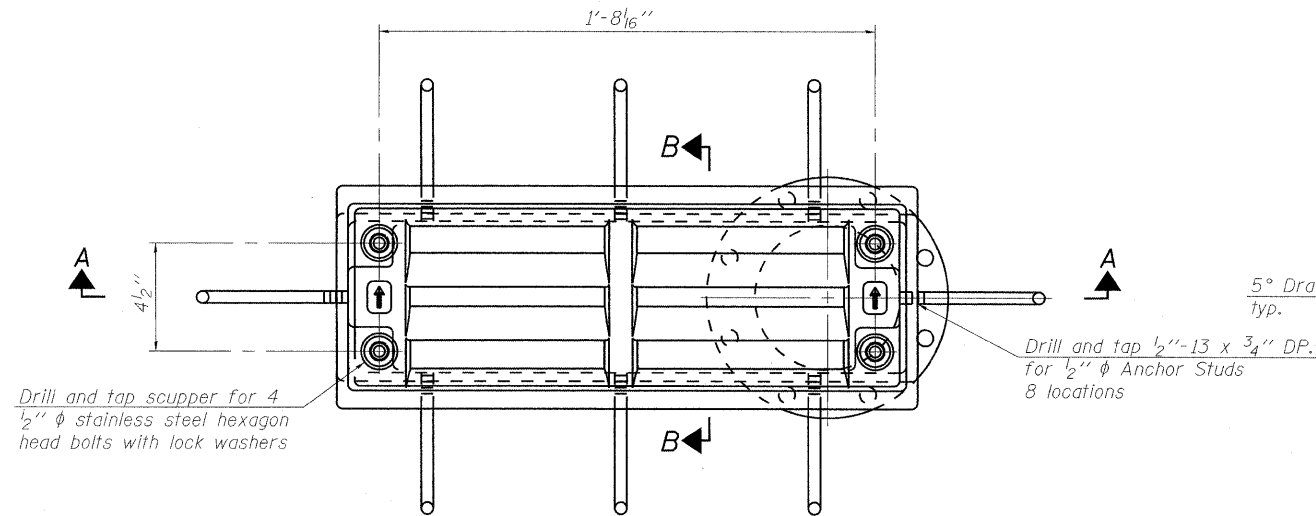
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

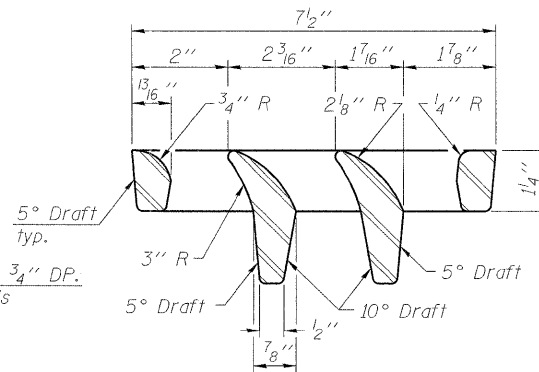
DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 016-1015

SHEET NO. S14 OF 36 SHEETS

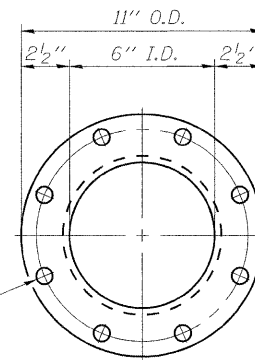
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	41
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



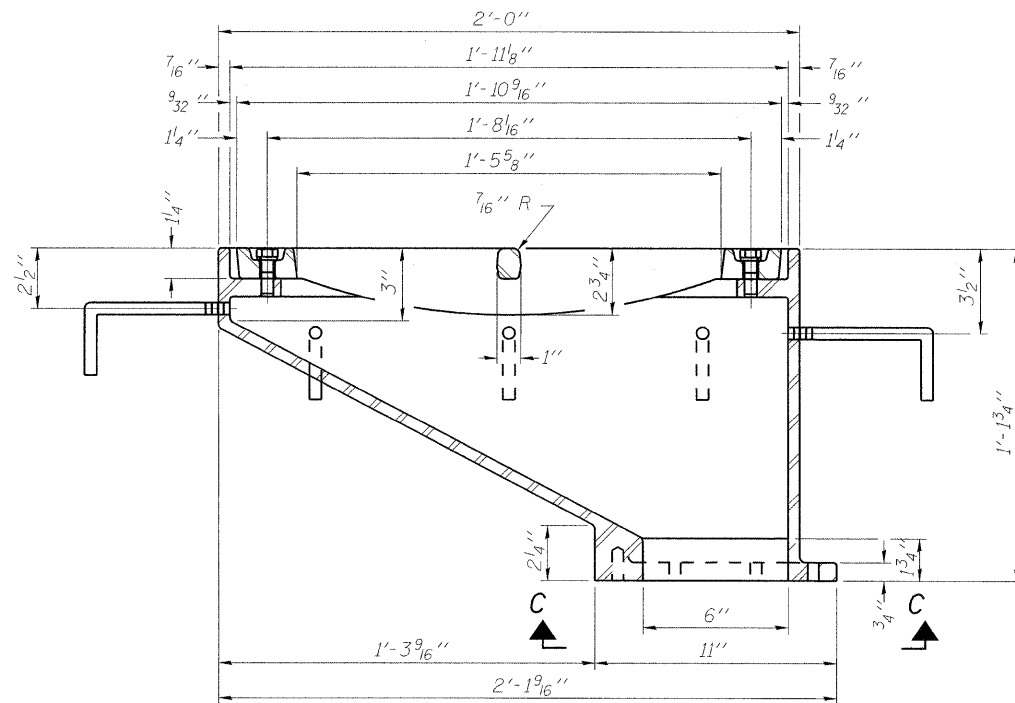
PLAN



VANE GRATE DETAIL

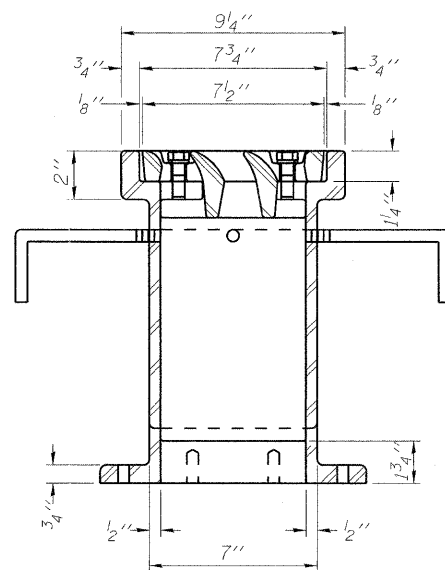


8-9/16" ϕ holes on an 9 1/2" ϕ bolt circle

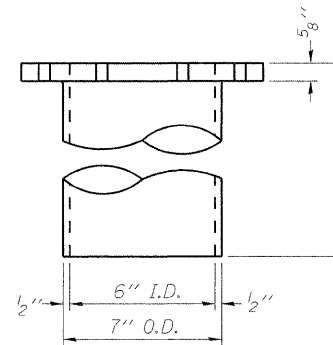


SECTION A-A

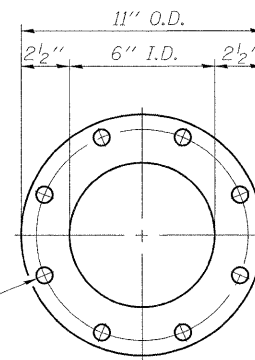
See Sheet S10 for scupper location relative to parapet.



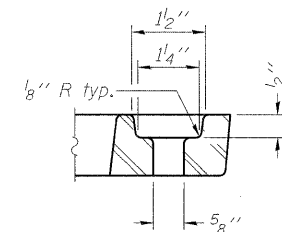
SECTION B-B



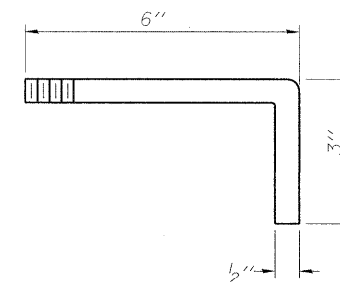
DOWNSPOUT



VIEW C-C



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	2

DS-12

7-1-10



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PLOT SCALE = N/A
PLOT DATE = 8/5/2011

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CHECKED - BHS
DRAWN - TWO
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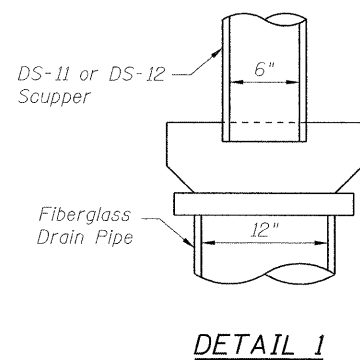
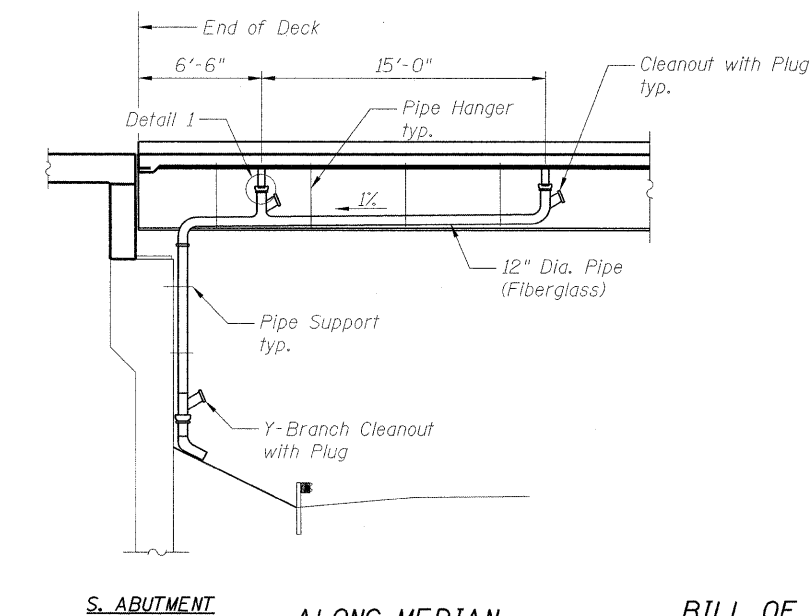
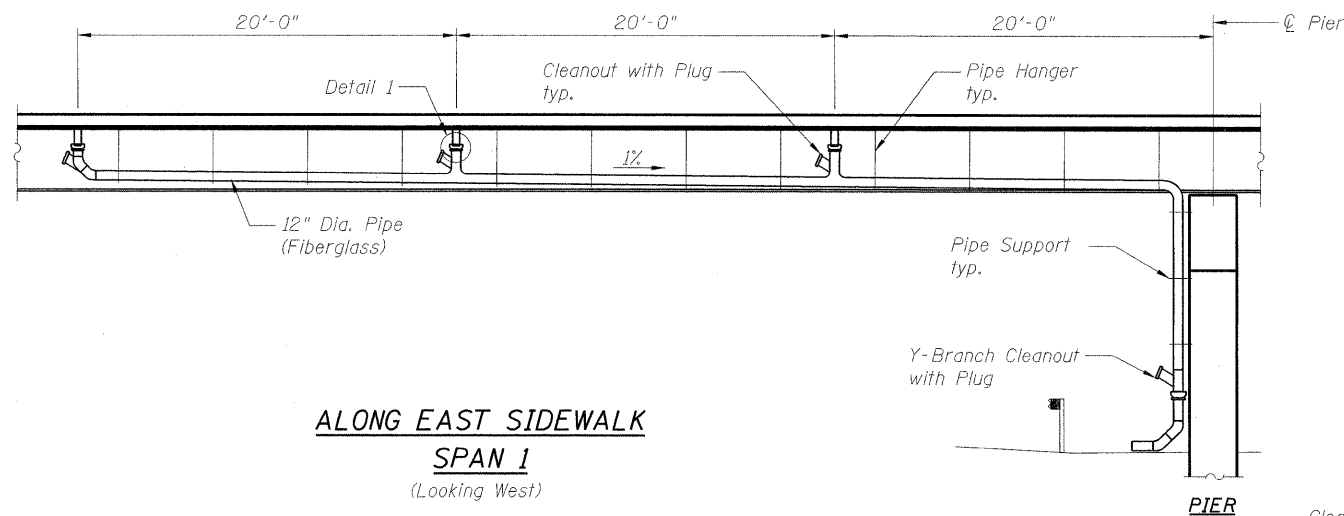
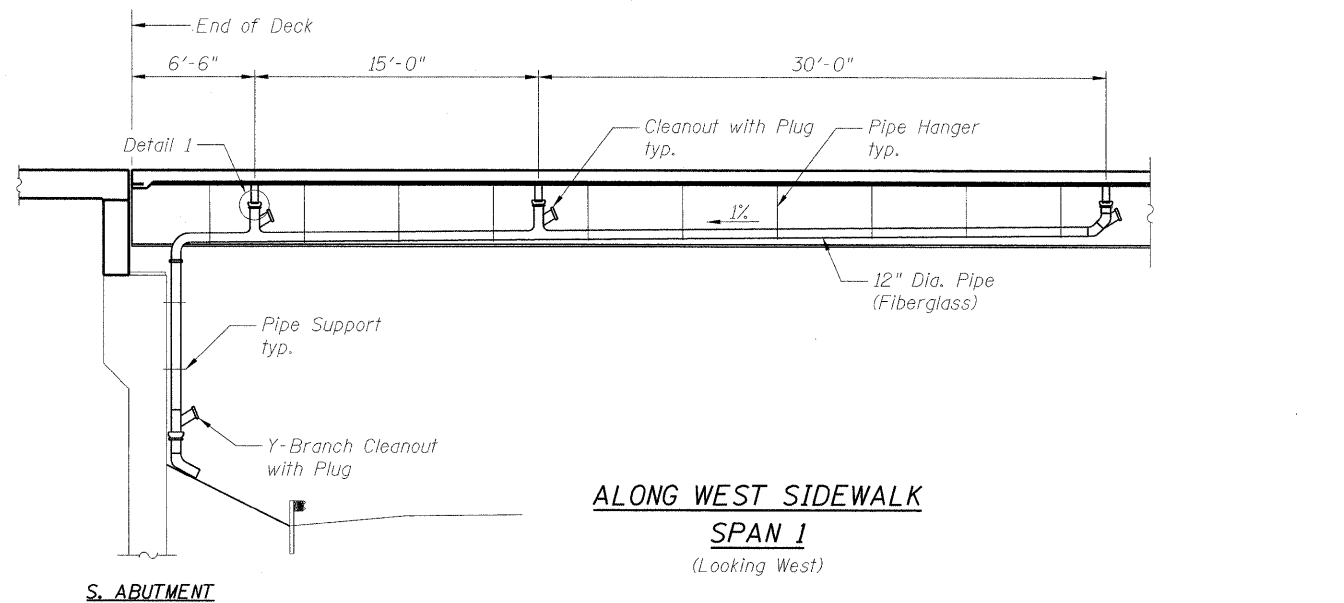
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-12
STRUCTURE NO. 016-1015

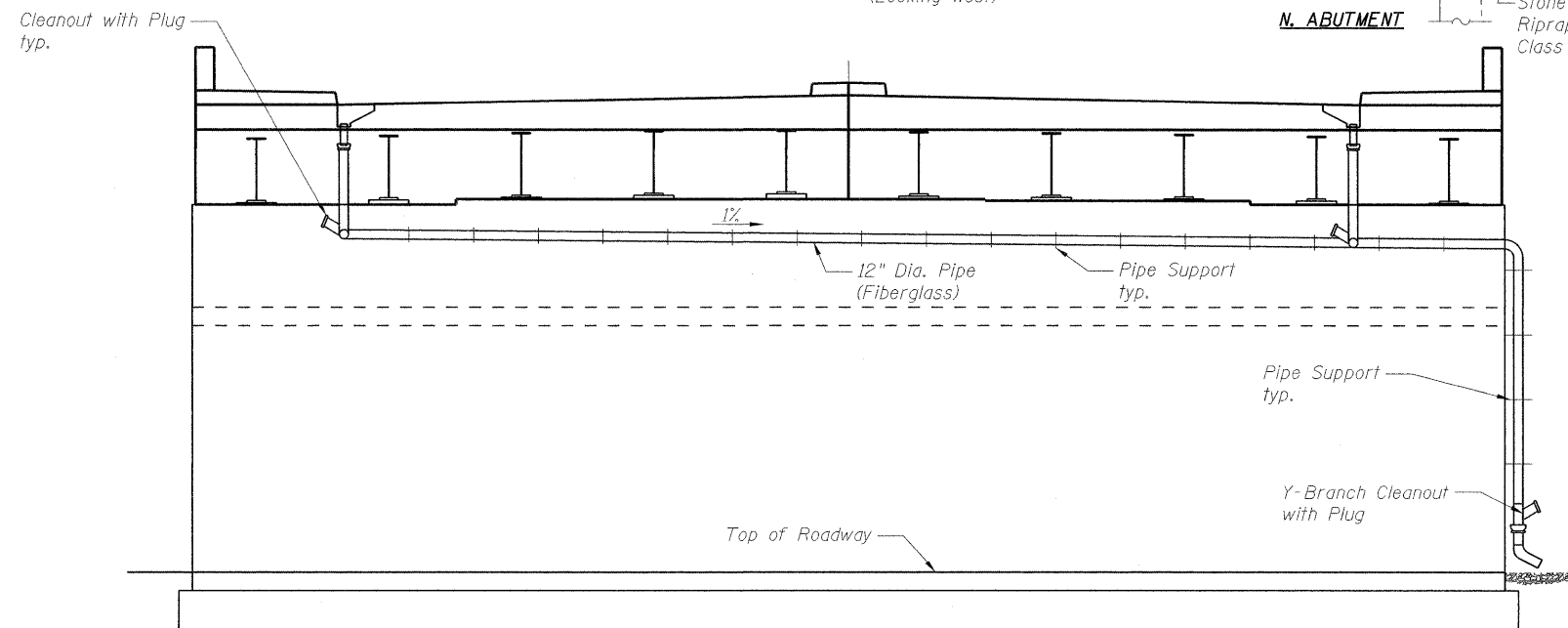
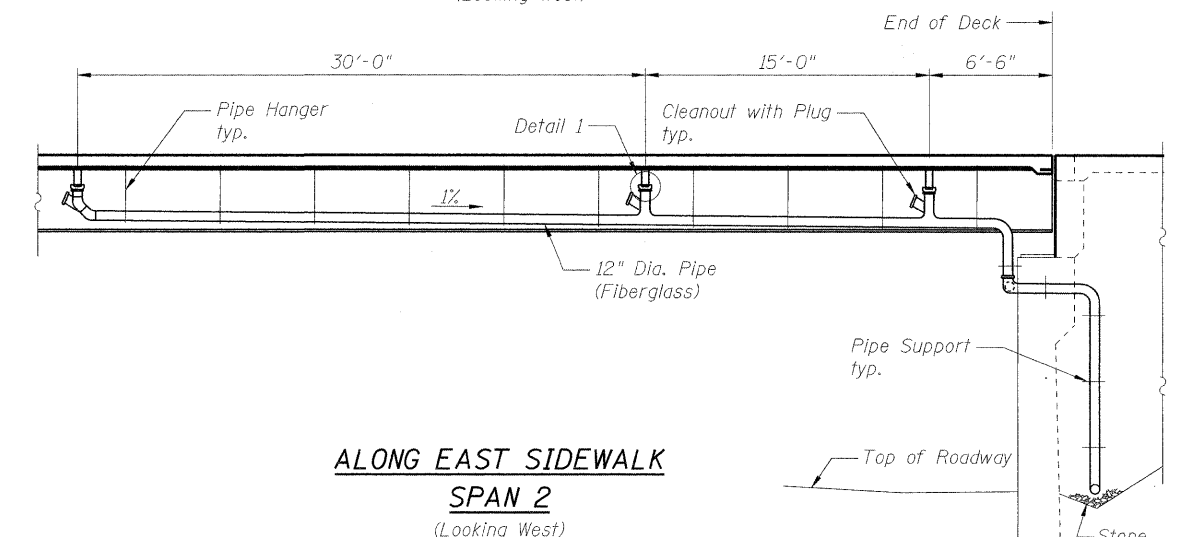
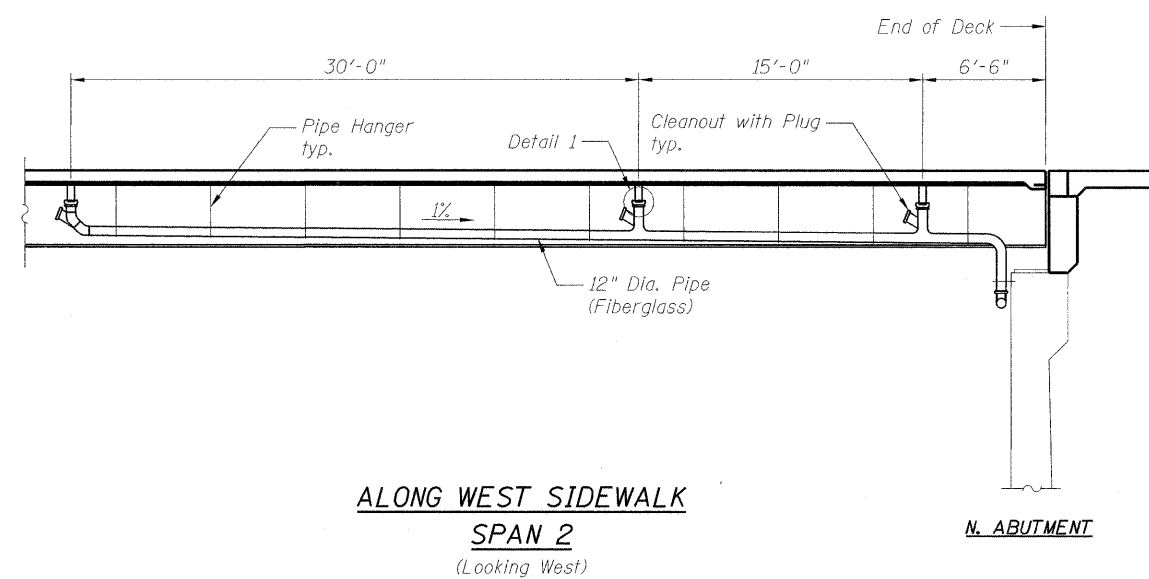
SHEET NO. S15 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



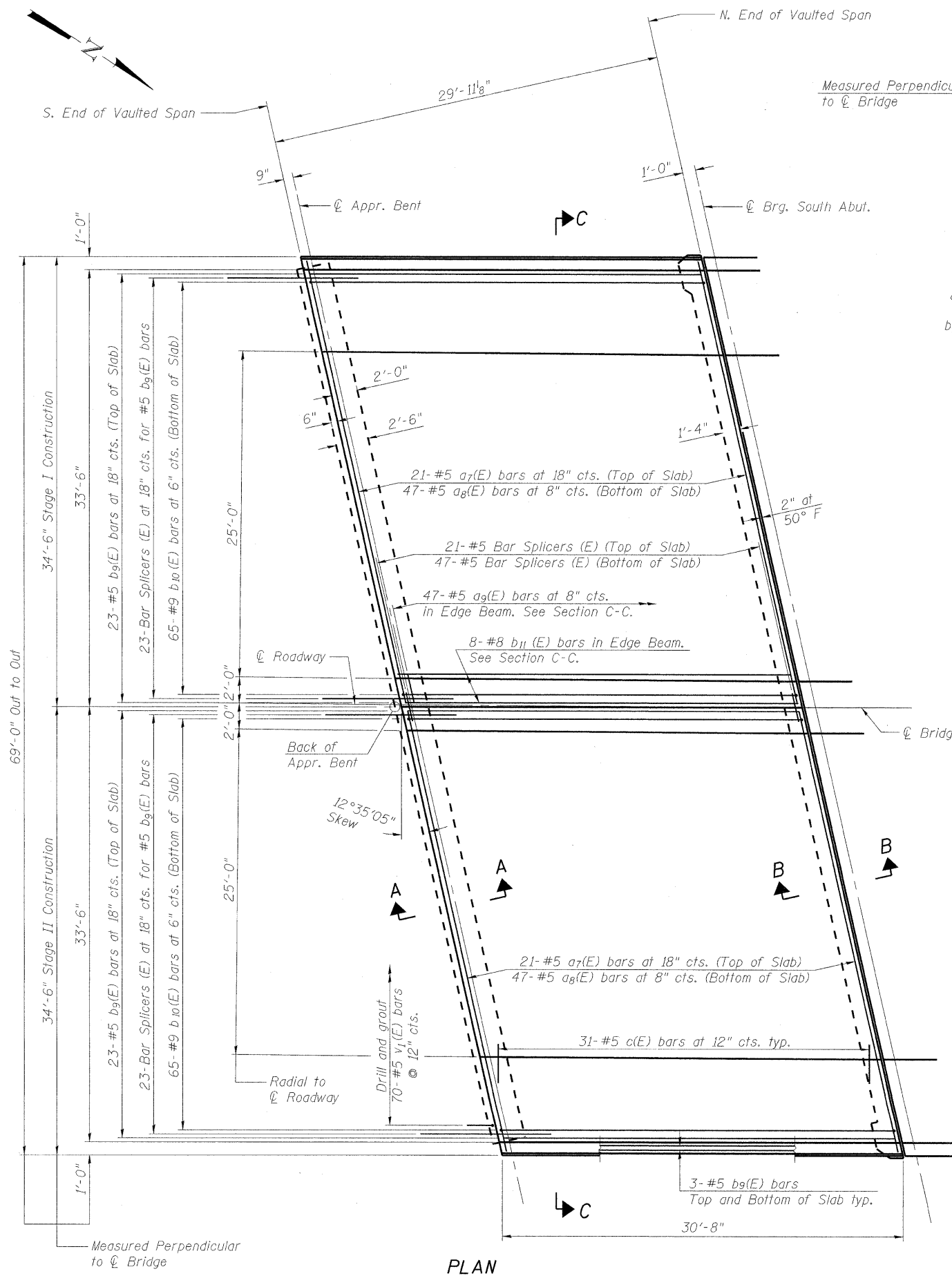
BILL OF MATERIAL

Item	Unit	Total
Drainage System	L. Sum	1
Stone Riprap, Class A4	Sq. Yd.	3

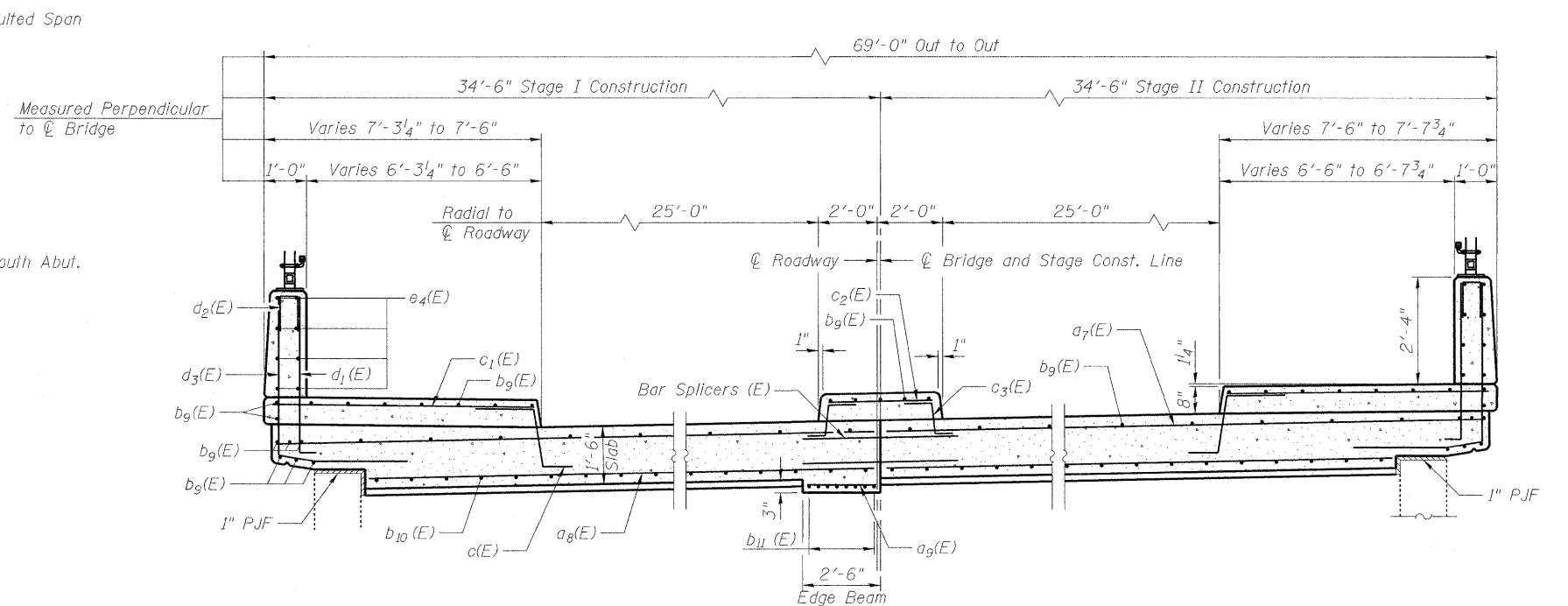


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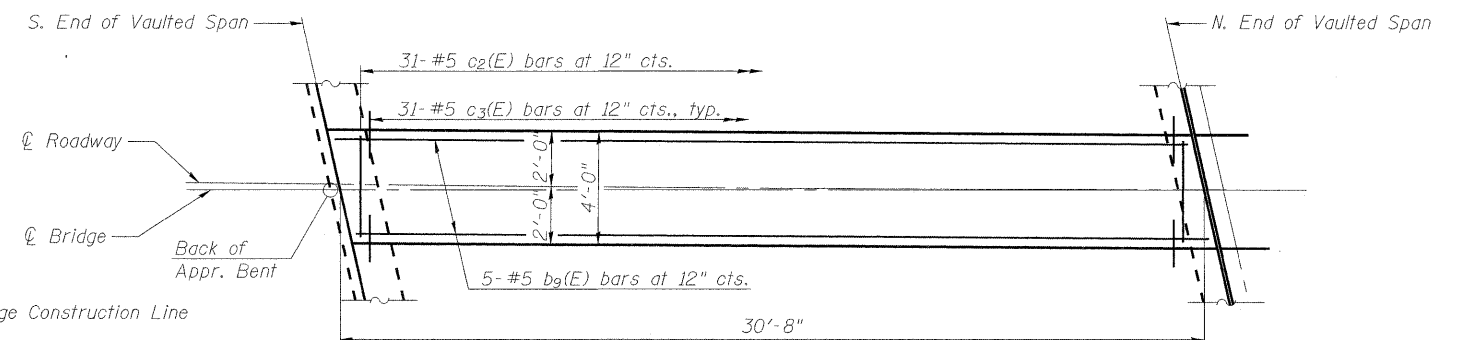
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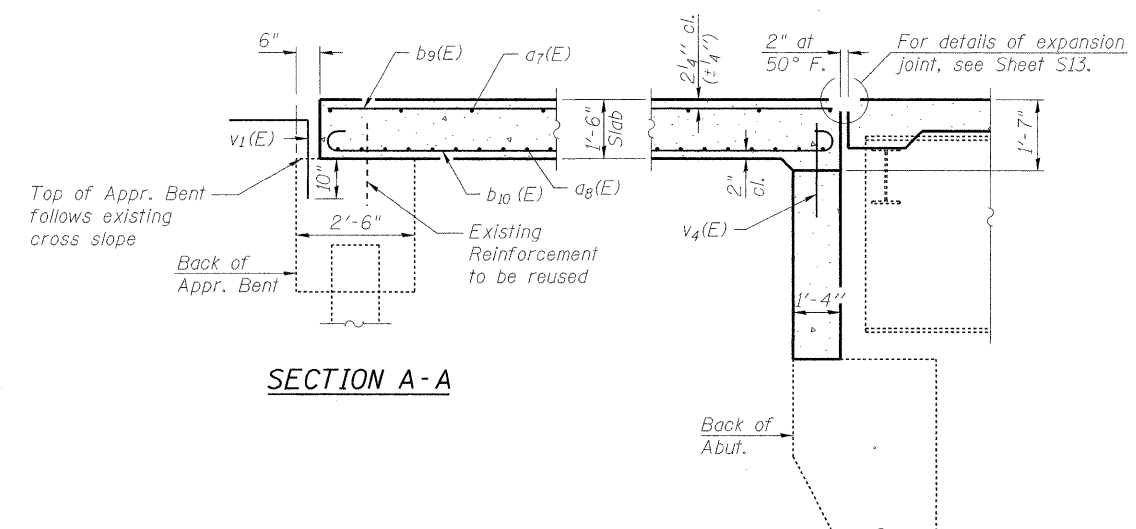
PLAN



SECTION C-C



MEDIAN DETAIL



SECTION A-A

SECTION B-B

Note:
For v4(E) bar details, see Sheet S26



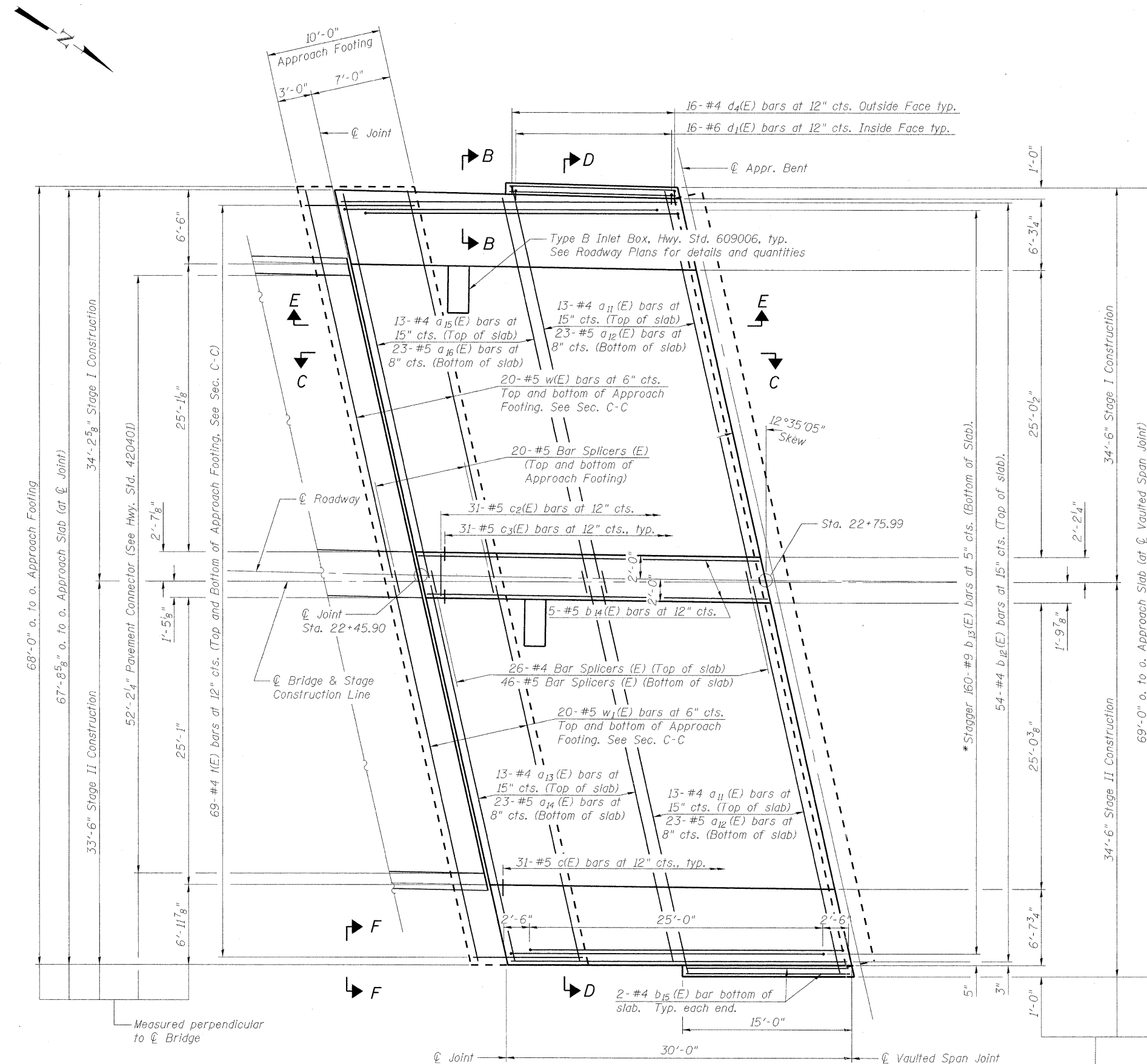
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PLOT SCALE = N/A	CHECKED - BHS	REVISED -
PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -
	CHECKED - GSP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VAULTED ABUTMENT APPROACH SPAN (1 OF 2)
STRUCTURE NO. 016-1015

SHEET NO. S17 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	44
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* Tilt #9 b_{13} (E) bars as required to maintain clearance.

** Cost included with Concrete Superstructure.

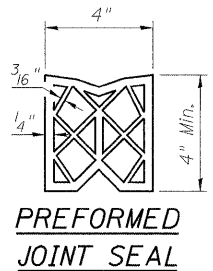
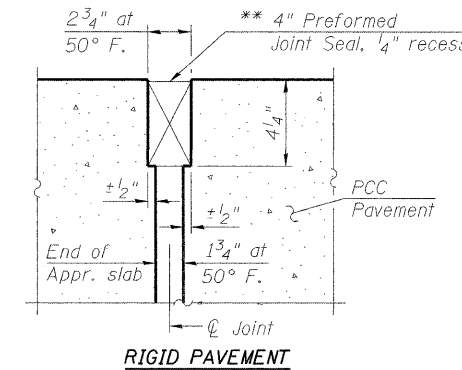
PLAN

Notes:

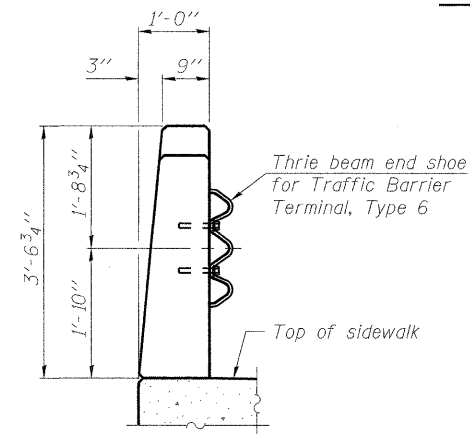
See Sheet S21 for Sections C-C & D-D.

 $a_{11}(E)$ thru $a_{14}(E)$ bar spacings measured along $\mathbb{C}$ Rdwy.

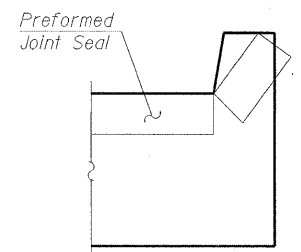
Order $a_{13}(E)$ thru $a_{16}(E)$, $b_{12}(E)$ and $b_{13}(E)$ bars full length. Cut in field to fit Type B Inlet Box, Hwy. Standard 609006.



DETAIL A

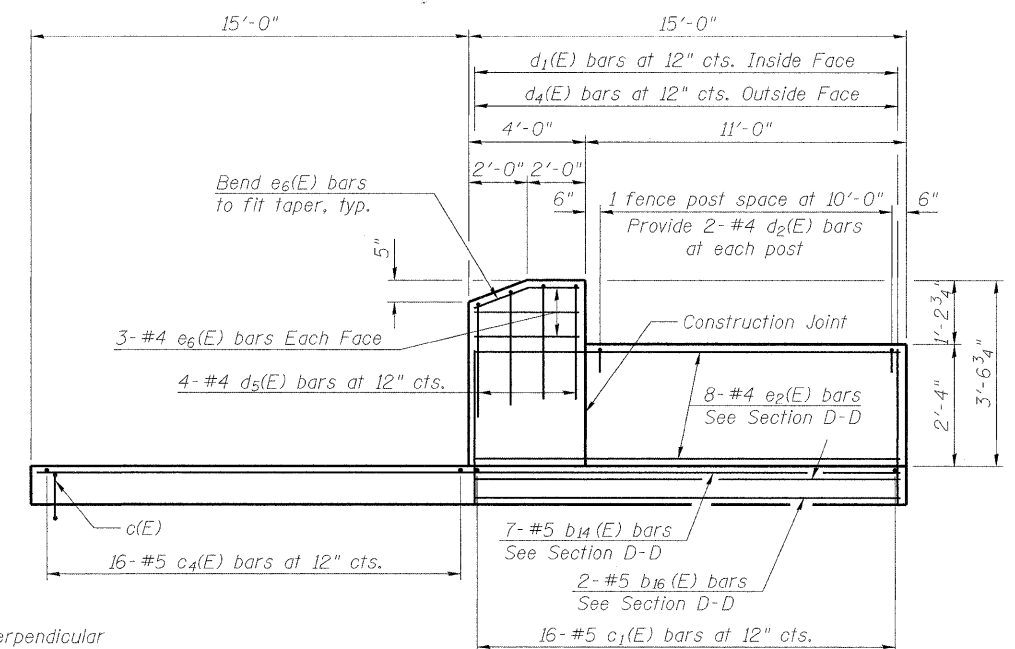


VIEW B-B



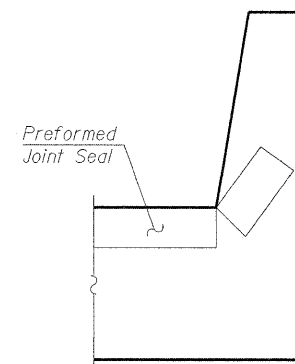
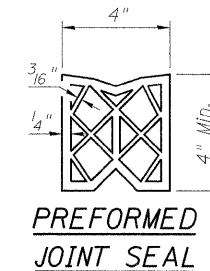
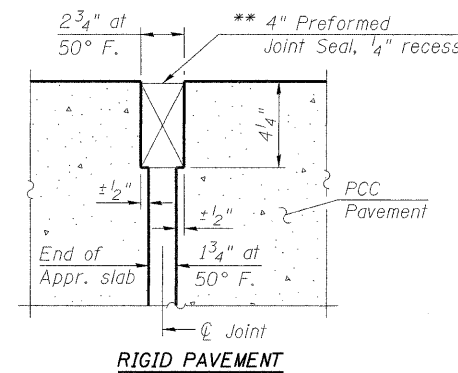
VIEW F-F

Angle Preformed Joint Seal at 45° at curbs
and parapet when req'd for drainage.

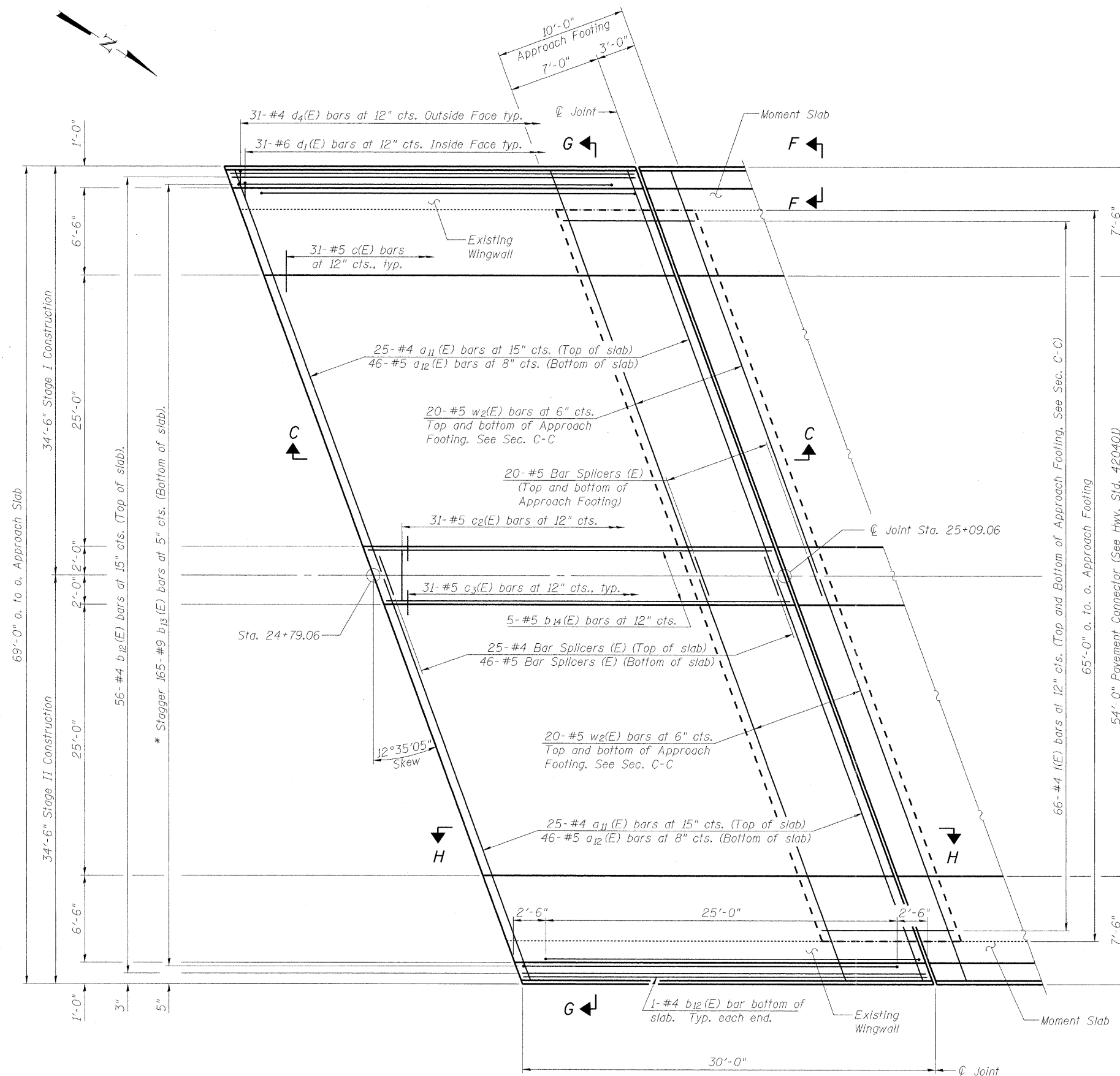
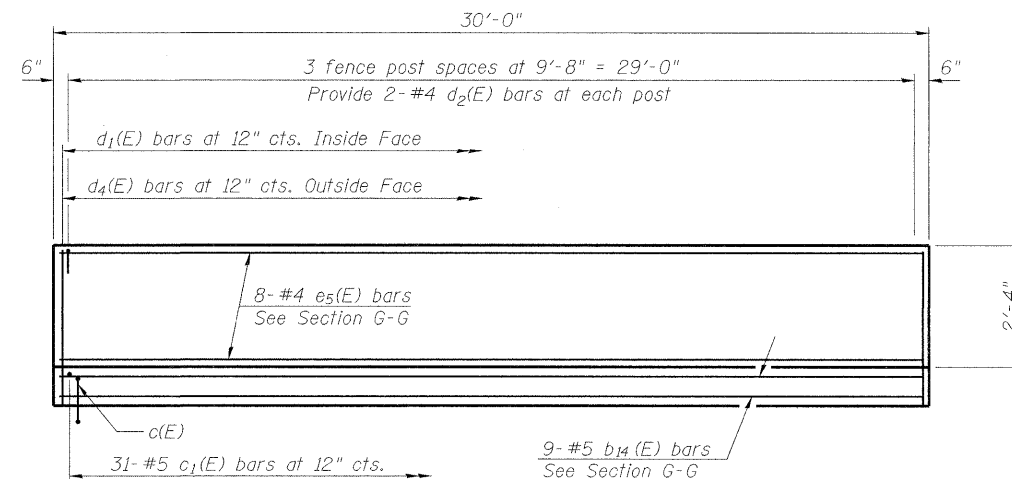


VIEW E-E

Notes:
See Sheet S21 for Sections C-C & G-G.
See Sheet S22 for Moment Slabs.
 $a_{11}(E)$ and $a_{12}(E)$ bar spacings measured along ϕ Bridge.



Angle Preformed Joint Seal at 45° at curbs and parapets when req'd for drainage.



* Tilt #9 $b_{13}(E)$ bars as required to maintain clearance.
** Cost included with Concrete Superstructure.

FILE NAME = g:\project\2102155.204\cadd\structure\slab\0161015_60863.020.N Approach.dgn



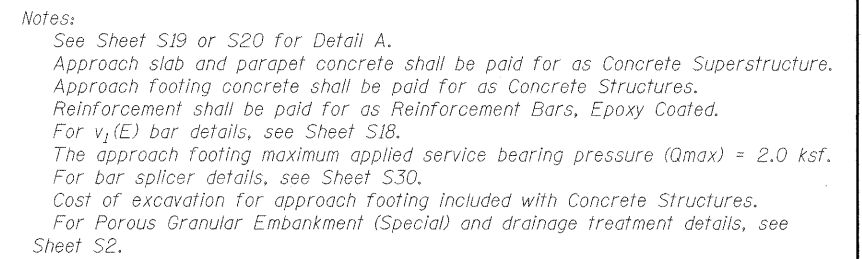
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PLOT SCALE = N/A	CHECKED - BHS	REVISED -
PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -
	CHECKED - GSP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

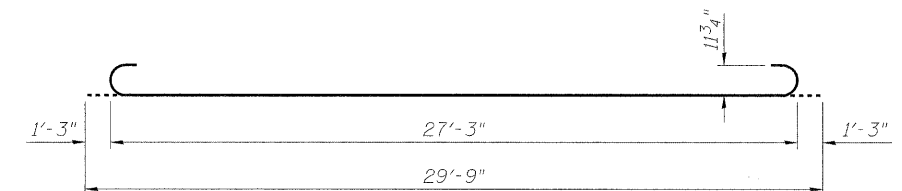
NORTH APPROACH SLAB
STRUCTURE NO. 016-1015

SHEET NO. S20 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	47
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION C-C



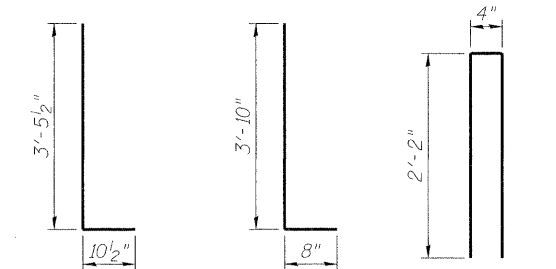
BAR $b_{13}(E)$

APPROACH SLABS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁₁ (E)	76	#4	35'-0"	————
a ₁₂ (E)	138	#5	35'-0"	————
a ₁₃ (E)	13	#4	34'-0"	————
a ₁₄ (E)	23	#5	34'-0"	————
a ₁₅ (E)	13	#4	34'-4"	————
a ₁₆ (E)	23	#5	34'-4"	————
b ₁₂ (E)	112	#4	29'-8"	————
b ₁₃ (E)	325	#9	29'-9"	————
b ₁₄ (E)	42	#5	29'-8"	————
b ₁₅ (E)	4	#4	14'-6"	————
b ₁₆ (E)	4	#5	14'-6"	————
c(E)	124	#5	2'-4"	———┘
c ₁ (E)	94	#5	7'-0"	————
c ₂ (E)	62	#5	3'-6"	————
c ₃ (E)	124	#5	2'-1"	———┘
c ₄ (E)	32	#5	6'-0"	————
d ₁ (E)	94	#6	4'-4"	———┘
d ₂ (E)	24	#4	2'-0"	———┘
d ₄ (E)	94	#4	4'-6"	———┘
d ₅ (E)	8	#4	4'-8"	————
e ₂ (E)	16	#4	14'-6"	————
e ₅ (E)	16	#4	29'-8"	————
e ₆ (E)	12	#4	3'-8"	————
t(E)	270	#4	9'-10"	————
w(E)	40	#5	35'-0"	————
w ₁ (E)	40	#5	34'-0"	————
w ₂ (E)	80	#5	33'-0"	————
Concrete Superstructure			Cu. Yd.	239.0
Concrete Structures			Cu. Yd.	42.1
Reinforcement Bars, Epoxy Coated			Pound	56,090

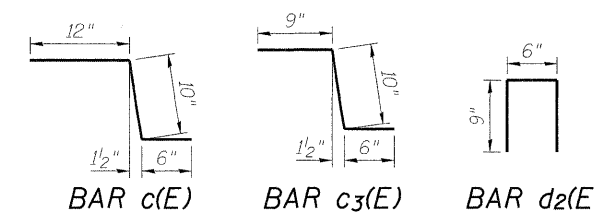
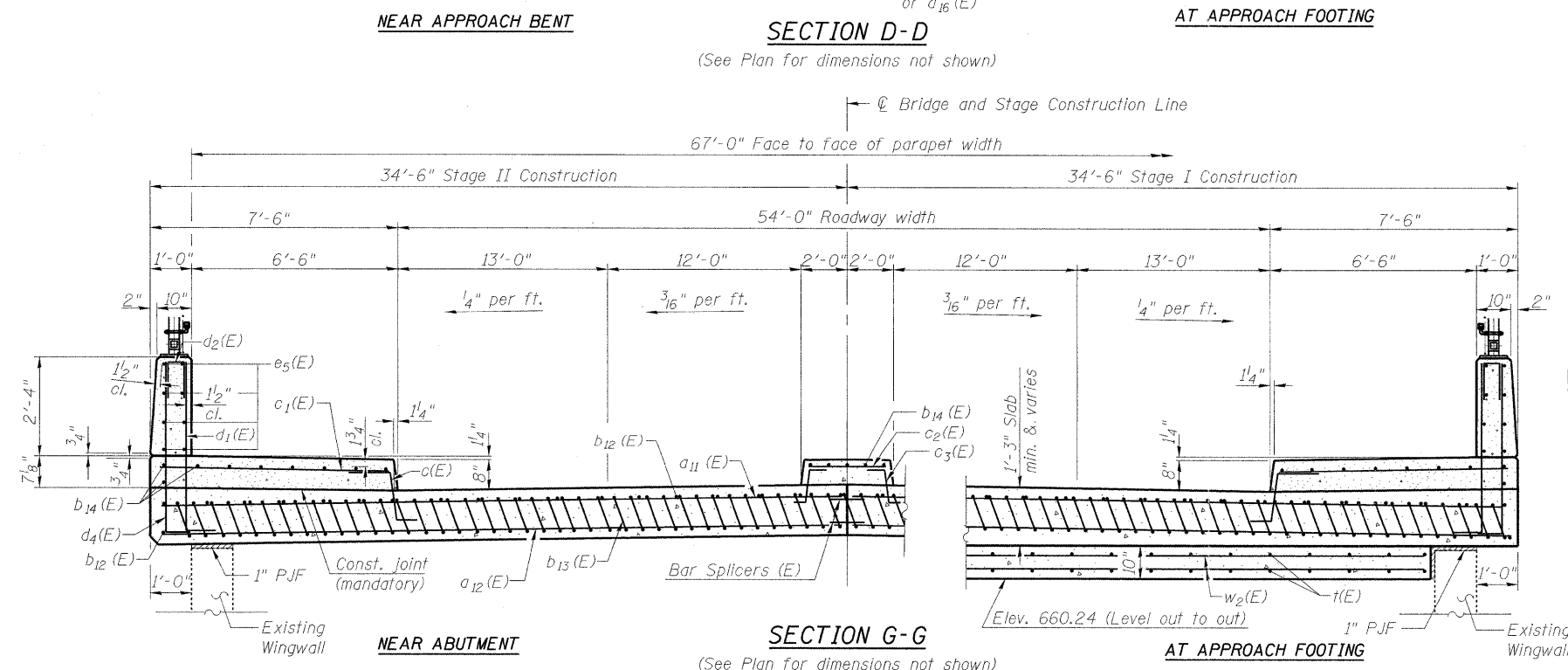
* Tilt #9 b_{13} (E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.


$$\underline{BAR} \ d_1(E)$$

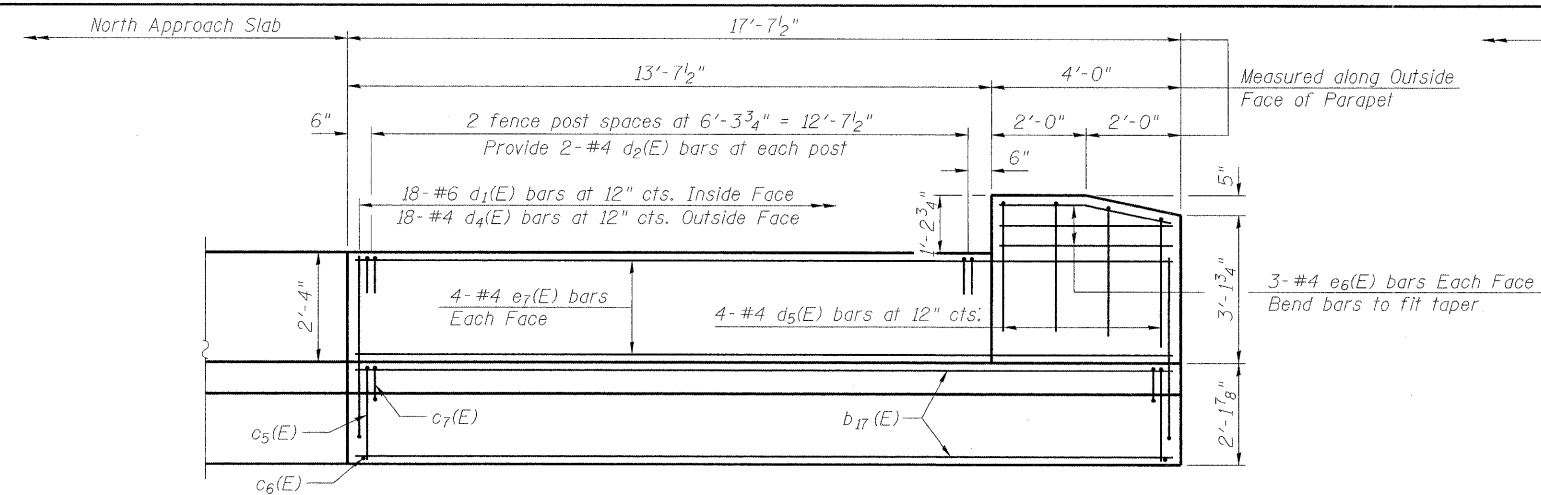
BAR $d_4(E)$

BAR $d_5(E)$

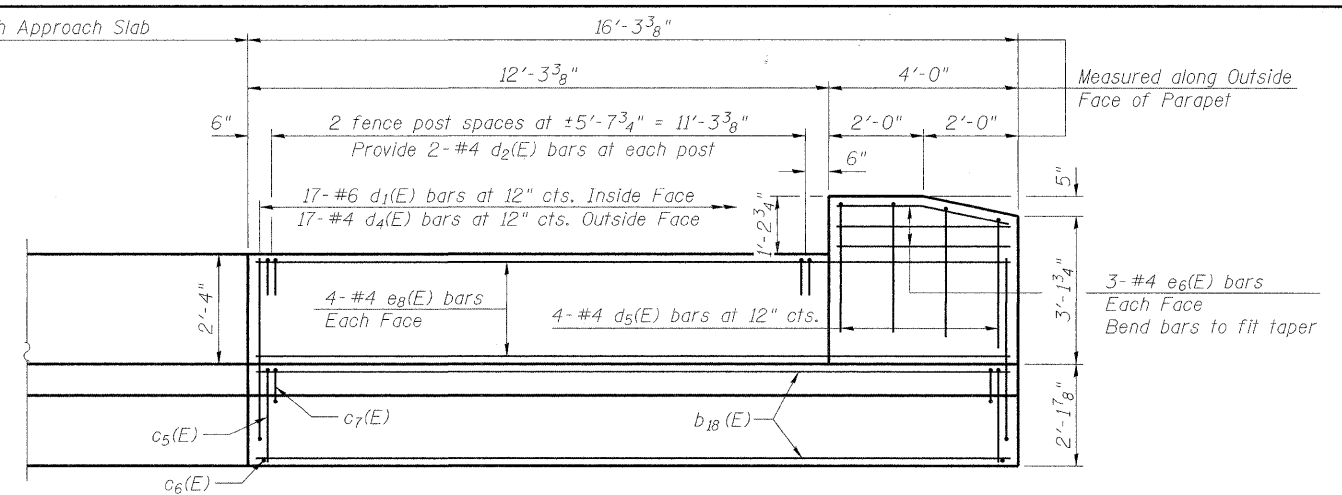

$$BAR \ c(E)$$
$$BAR \ c_3(E)$$
 $BAR \ d_2(E)$ 

SECTION G-G

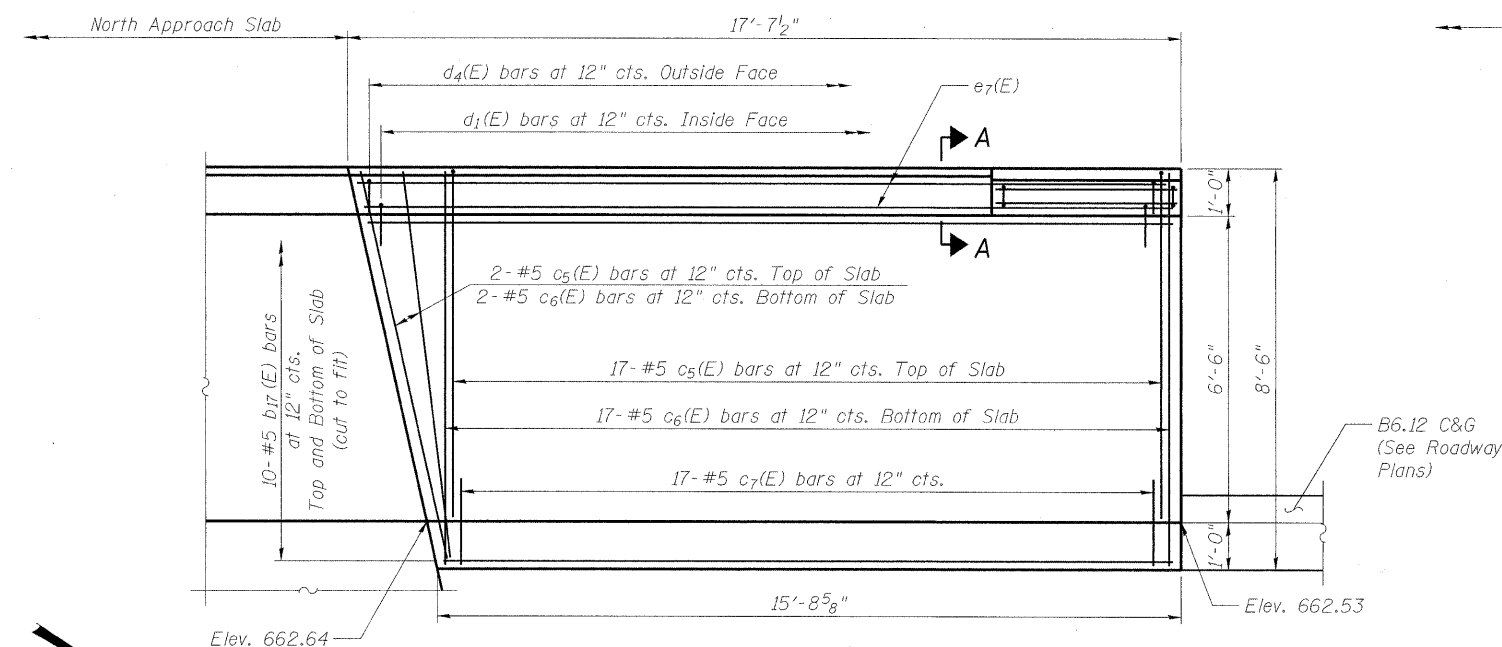
(See Plan for dimensions not shown)



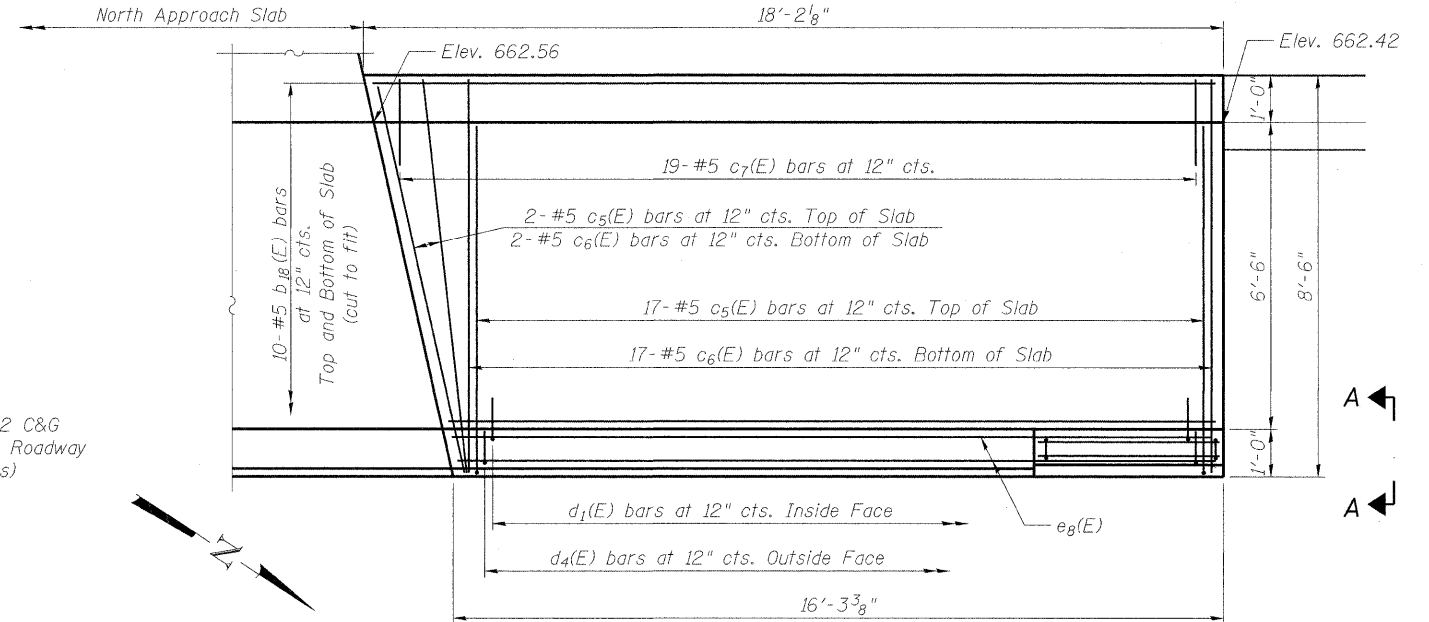
NORTHWEST MOMENT SLAB PARAPET ELEVATION



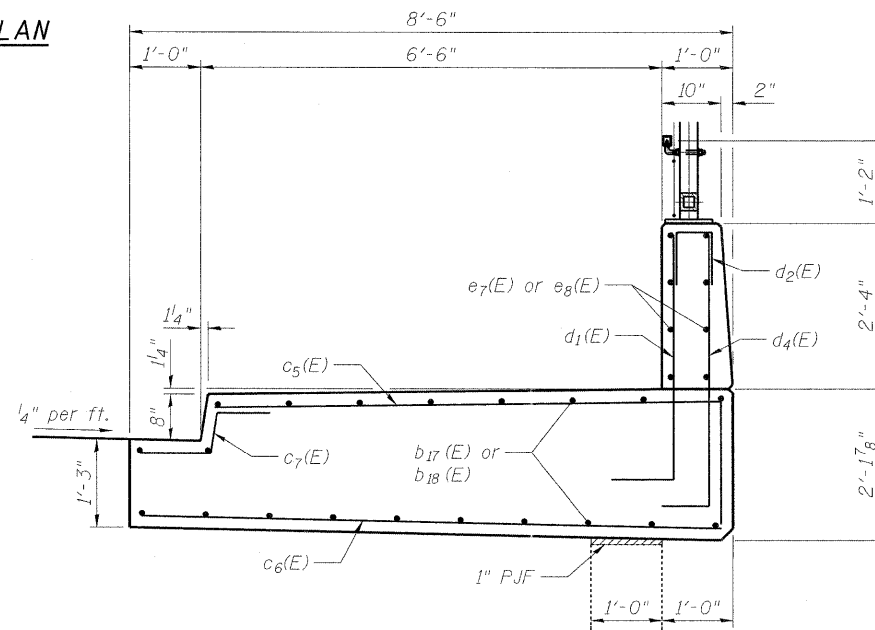
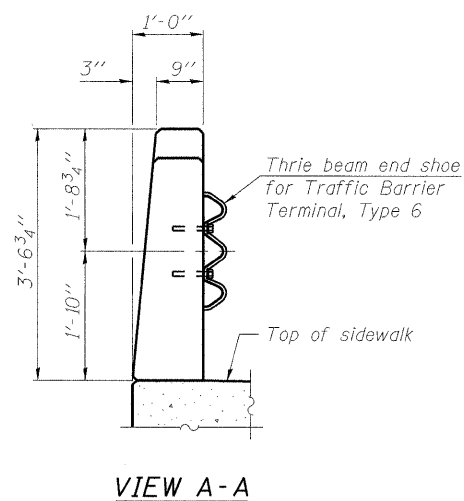
NORTHEAST MOMENT SLAB PARAPET ELEVATION



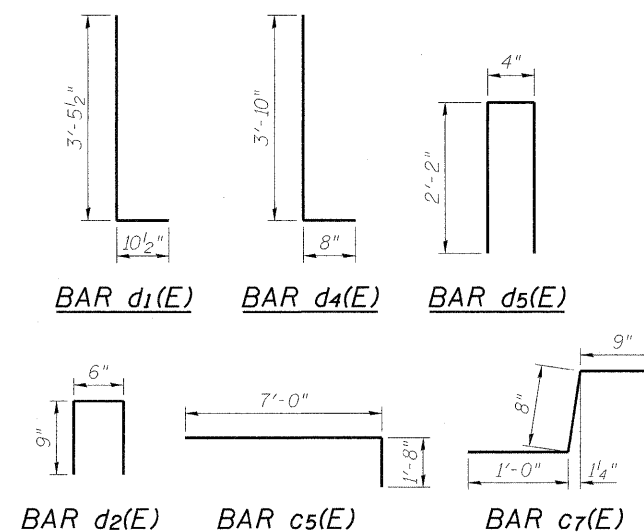
NORTHWEST MOMENT SLAB PLAN



NORTHEAST MOMENT SLAB PLAN



SECTION THRU MOMENT SLAB



**MOMENT SLABS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
b ₁₇ (E)	20	#5	17'-3"	—
b ₁₈ (E)	20	#5	17'-10"	—
c ₅ (E)	38	#5	8'-8"	—
c ₆ (E)	38	#5	8'-0"	—
c ₇ (E)	36	#5	2'-5"	—
d ₁ (E)	35	#6	4'-4"	L
d ₂ (E)	12	#4	2'-0"	n
d ₄ (E)	35	#4	4'-6"	L
d ₅ (E)	8	#4	4'-8"	n
e ₆ (E)	12	#4	3'-8"	—
e ₇ (E)	8	#4	17'-0"	—
e ₈ (E)	8	#4	15'-11"	—
Concrete Superstructure			Cu. Yd.	23.6
Reinforcement Bars, Epoxy Coated			Pound	2,060

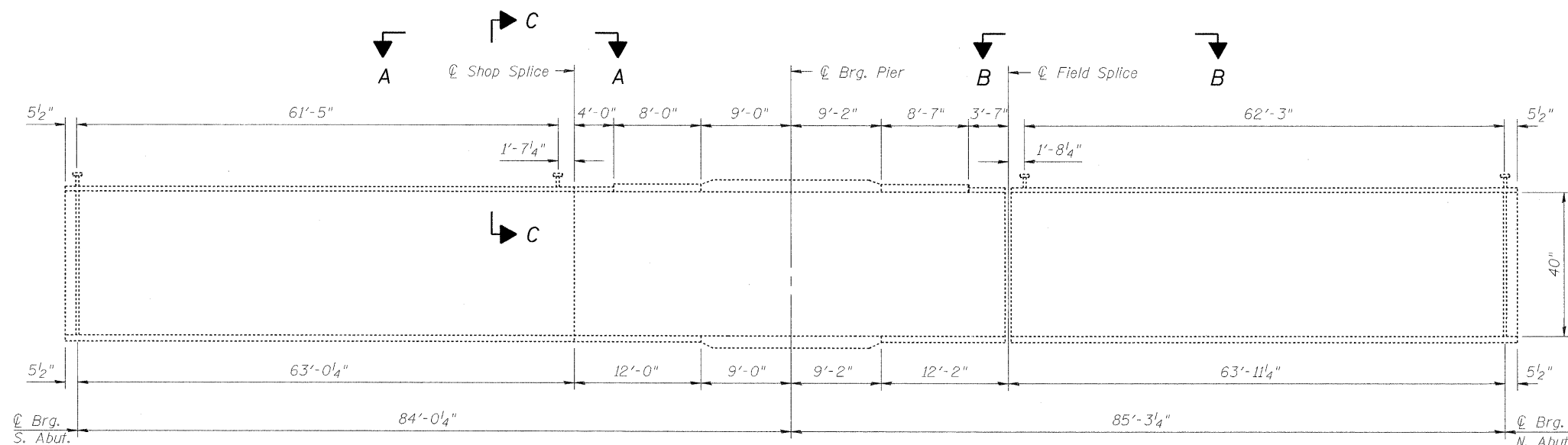
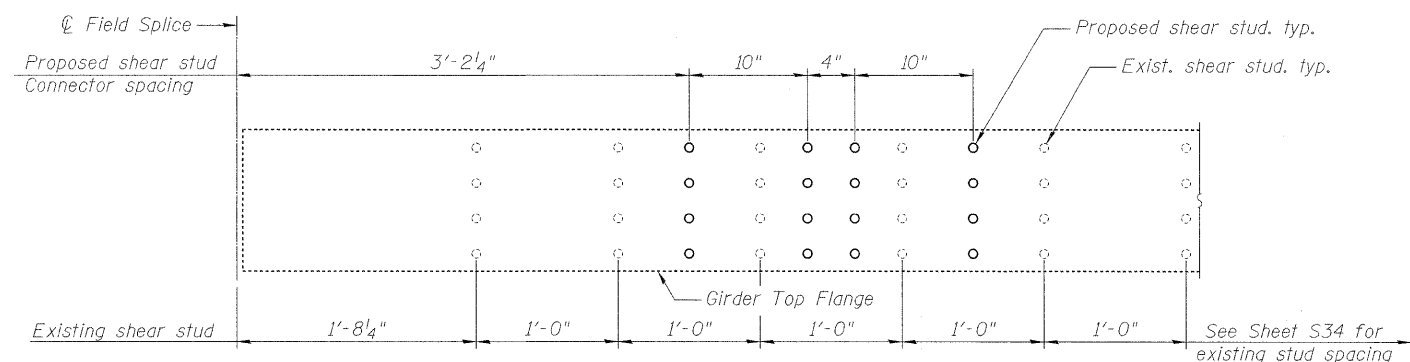
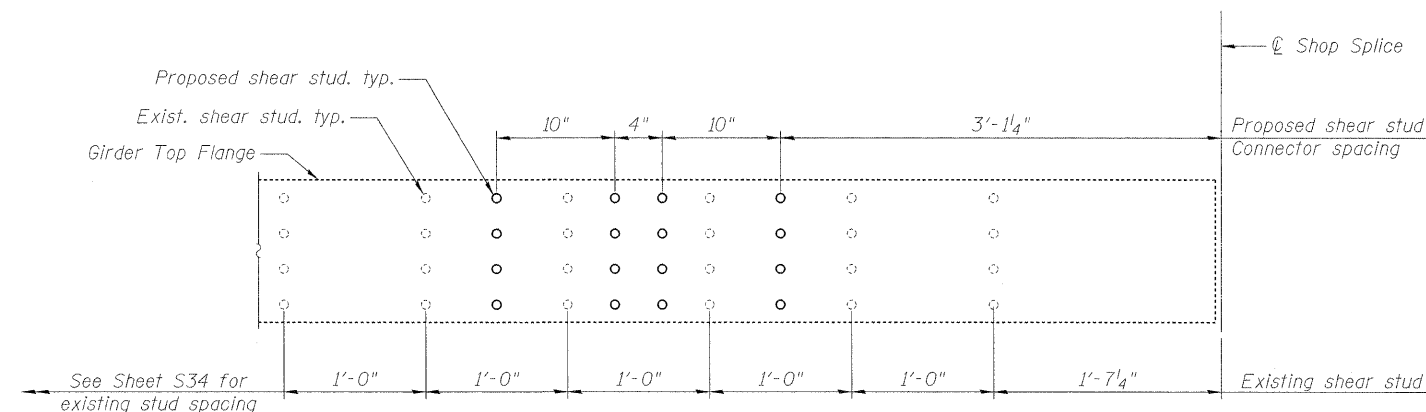
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INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 2	Pier
I_s	(in ⁴)	12911
$I_c(n)$	(in ⁴)	36703
$I_c(3n)$	(in ⁴)	26902
S_s	(in ³)	787
$S_c(n)$	(in ³)	1053
$S_c(3n)$	(in ³)	980
Z	(in ³)	—
$\bar{Q}$	(k/')	0.866
$M\bar{Q}$	(k)	398
$s\bar{Q}$	(k/')	0.605
$M_s\bar{Q}$	(k)	294
M_L	(k)	636
M_{IM}	(k)	151
$s_3 [M_L + I]$	(k)	1314
M_d	(k)	2606
M_u	(k)	3500
$f_s \bar{Q}$ non-comp	(ksi)	6.1
$f_s \bar{Q}$ (comp)	(ksi)	3.6
$f_s s_3 [M_L + M_I]$	(ksi)	15.0
f_s (Overload)	(ksi)	24.6
f_s (Total)	(ksi)	34.7
VR	(k)	45.0

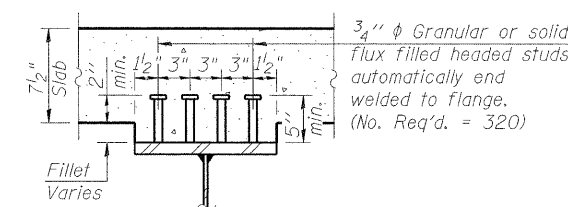
INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
$R\bar{Q}$	(k)	46.2
R_L	(k)	46.9
R_I	(k)	8.0
R_{Total}	(k)	101.1
		232.9

* Compact section
** Braced non-compact and partially braced section

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in⁴ and in³).
 $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in⁴ and in³).
 $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in⁴ and in³).
 Z : Plastic Section Modulus of the steel section in non-composite areas (in³).
 $\bar{Q}$: Un-factored non-composite dead load (kips/ft.).
 $M\bar{Q}$: Un-factored moment due to non-composite dead load (kip-ft.).
 $s\bar{Q}$: Un-factored long-term composite (superimposed) dead load (kips/ft.).
 $M_s\bar{Q}$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
 M_L : Un-factored live load moment (kip-ft.).
 M_I : Un-factored moment due to impact (kip-ft.).
 M_d : Factored design moment (kip-ft.).
 $1.3 [M\bar{Q} + M_s\bar{Q} + \frac{5}{3} (M_L + M_I)]$
 M_u : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
 f_s (Overload): Sum of stresses as computed from the moments below (ksi).
 $M\bar{Q} + M_s\bar{Q} + \frac{5}{3} (M_L + M_I)$
 f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.3 [M\bar{Q} + M_s\bar{Q} + \frac{5}{3} (M_L + M_I)]$
 VR : Maximum $\frac{1}{4}$ + impact horizontal shear range within the composite portion of the span for stud shear connector design (kips).

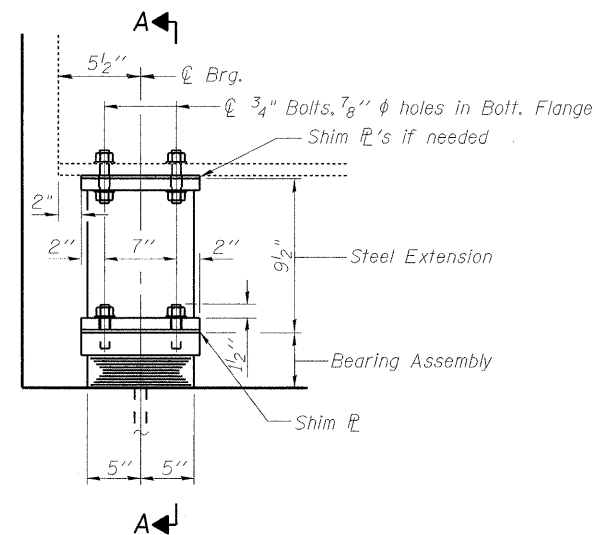


Note: Intermediate stiffeners not shown.

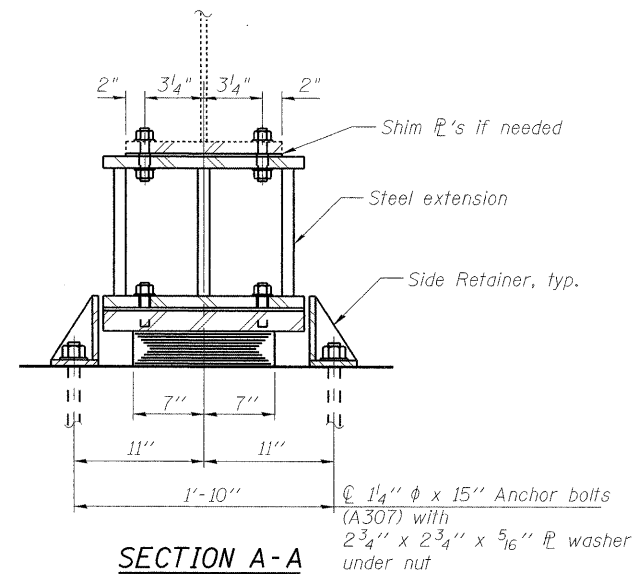


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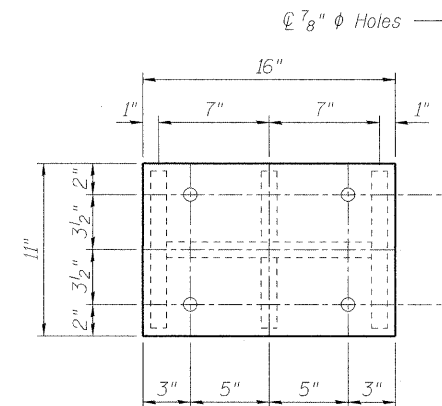
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	PLOT SCALE = N/A		CHECKED - BHS	REVISED -				57	1112.1B	COOK	75	50
	DRAWN - TWO		REVISOR -	REVISED -				CONTRACT NO. 60863				
	PLOT DATE = 8/5/2011		CHECKED - GSP	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



ELEVATION AT ABUT.

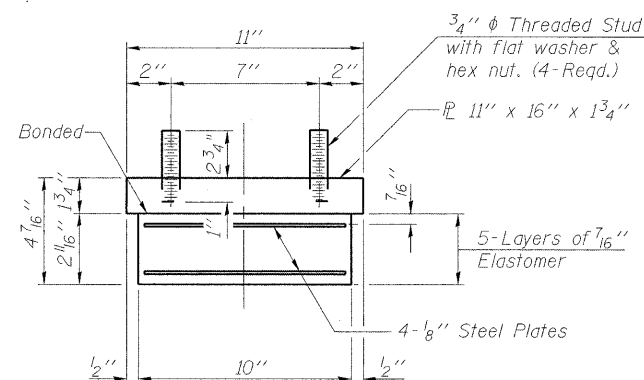


SECTION A-A



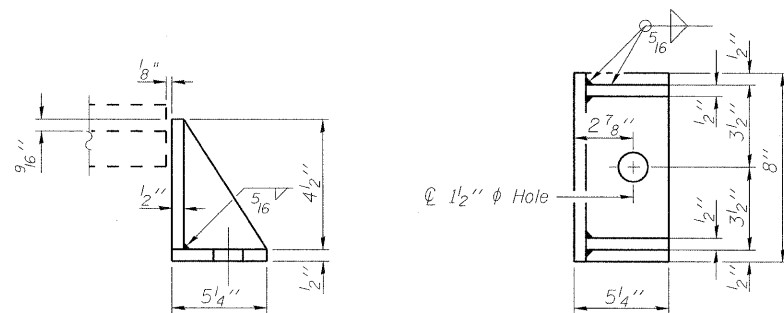
PLAN TOP AND BOTTOM PLATE

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

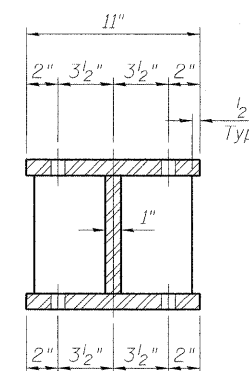
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The Steel Extensions shall be paid for as Furnishing and Erecting Structural Steel.

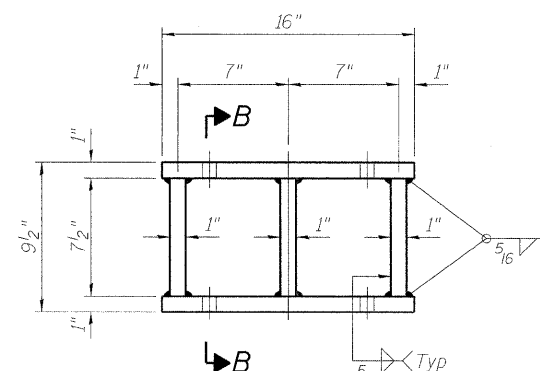
Existing top bearing plate welded to the existing beam must be removed. Contractor must exercise caution as to not damage bottom flange. Existing top plate to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

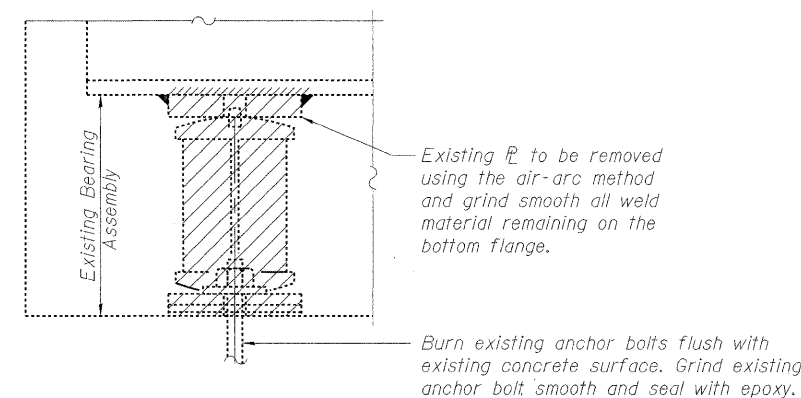
Two 3/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



SECTION B-B



STEEL EXTENSION DETAIL



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	3,850
Elastomeric Bearing Assembly Type I	Each	20
Anchor Bolts 1 1/4"	Each	40
Jack and Remove Existing Bearings	Each	20



USER NAME = 2sayerb	DESIGNED - TWO	REVISED -
PLOT SCALE = N/A	CHECKED - BHS	REVISED -
PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -
	CHECKED - GSP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

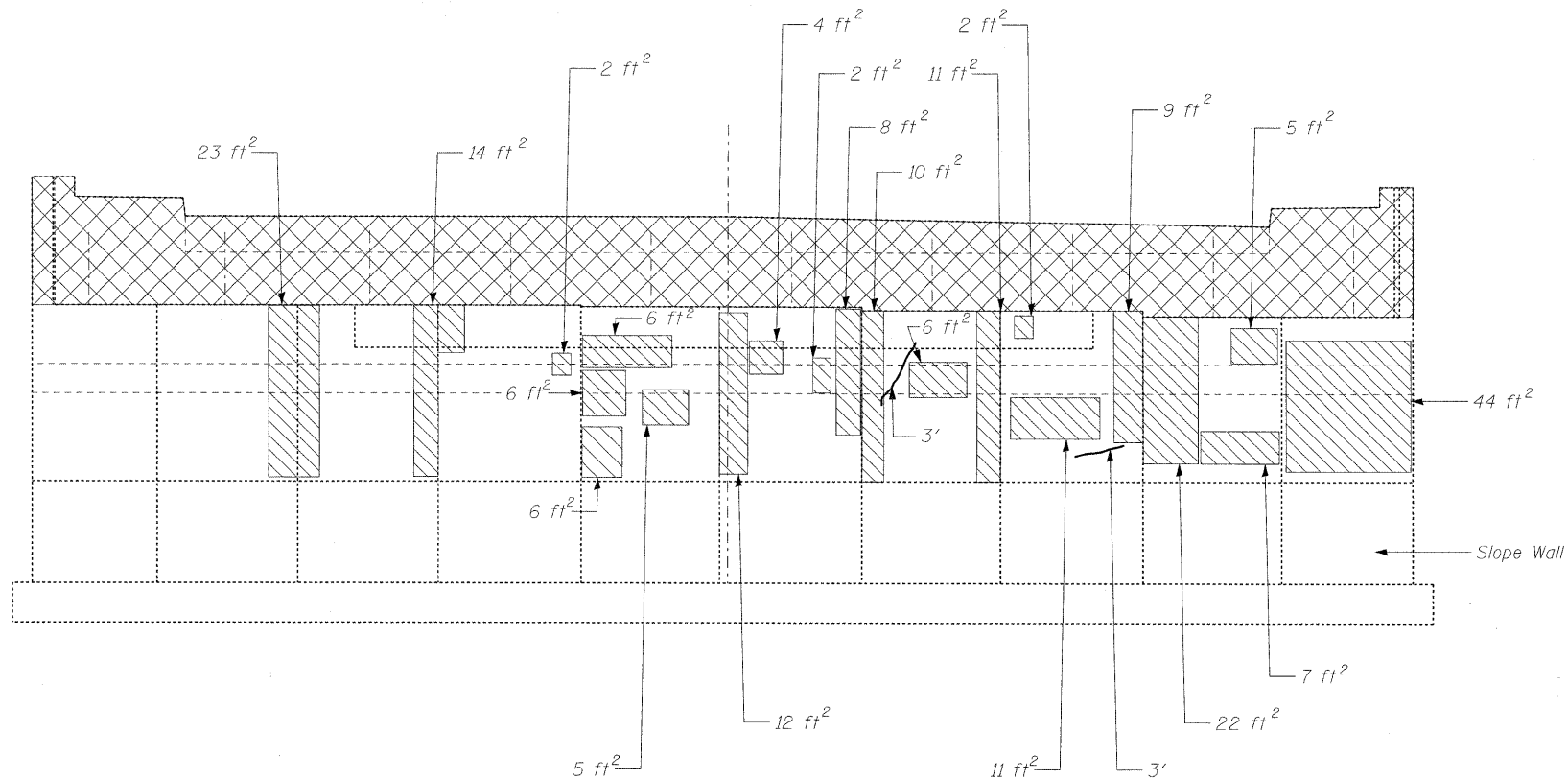
BEARING DETAILS
STRUCTURE NO. 016-1015

SHEET NO. S24 OF 36 SHEETS

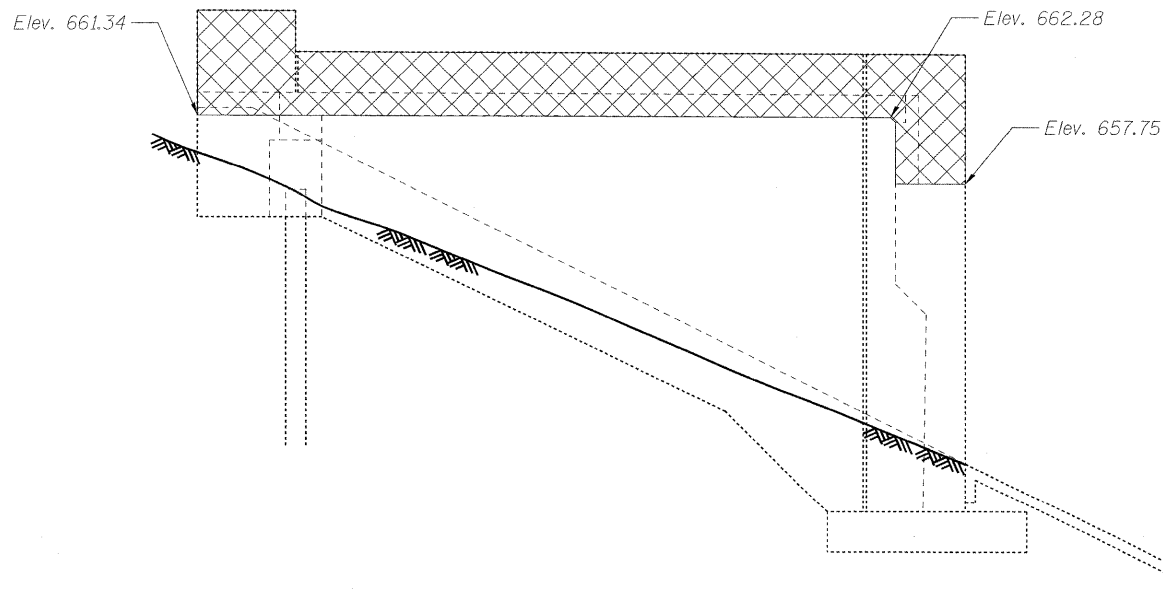
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	51
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				

BILL OF MATERIAL

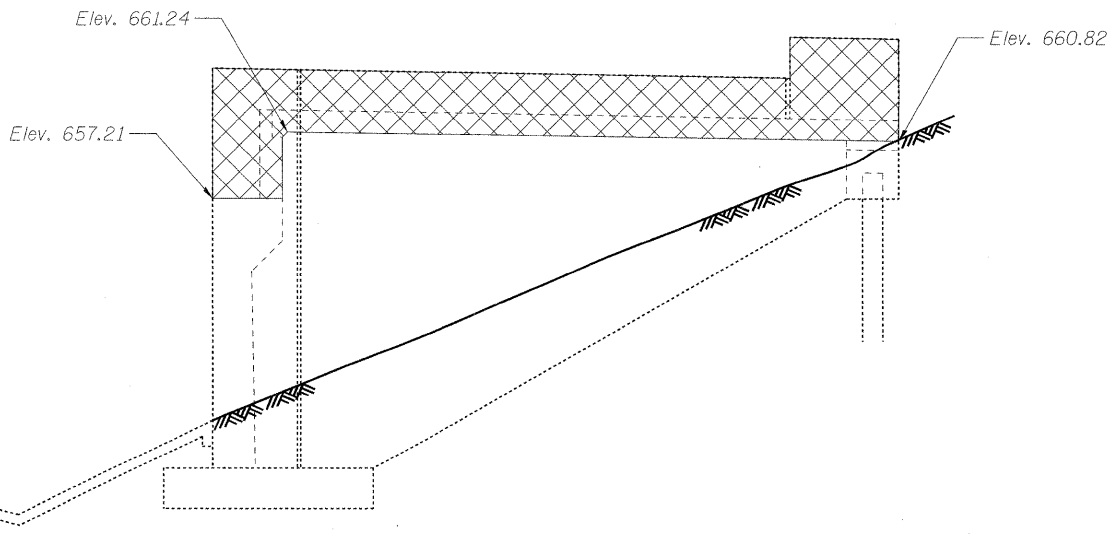
	Item Description	Unit	Quantity
	Concrete Removal	Cu. Yd.	26.0
	Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	215
	Epoxy Crack Injection	Foot	6



SOUTH ABUTMENT ELEVATION
(Looking South)



SOUTHEAST WINGWALL ELEVATION
(Looking West)



SOUTHWEST WINGWALL ELEVATION
(Looking East)

FILE NAME = g:\project\2102155_004\cadd\structure\sh\0161015_00663_025.S Abutment 1.dgn



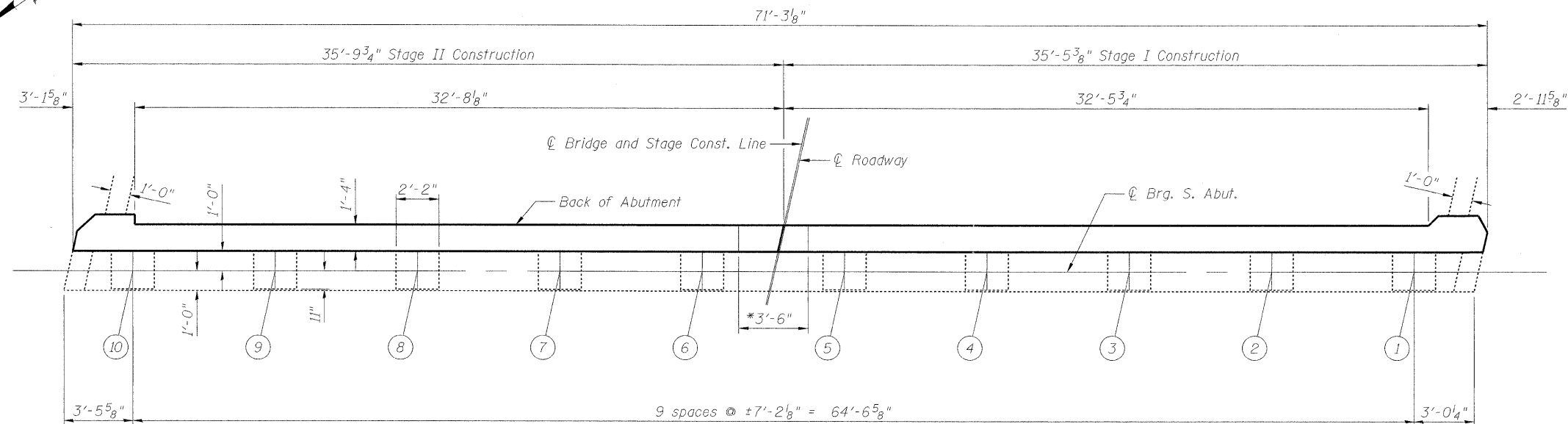
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PLOT SCALE = N/A	CHECKED - BHS	REVISED -
PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -
	CHECKED - GSP	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT REPAIR
STRUCTURE NO. 016-1015**

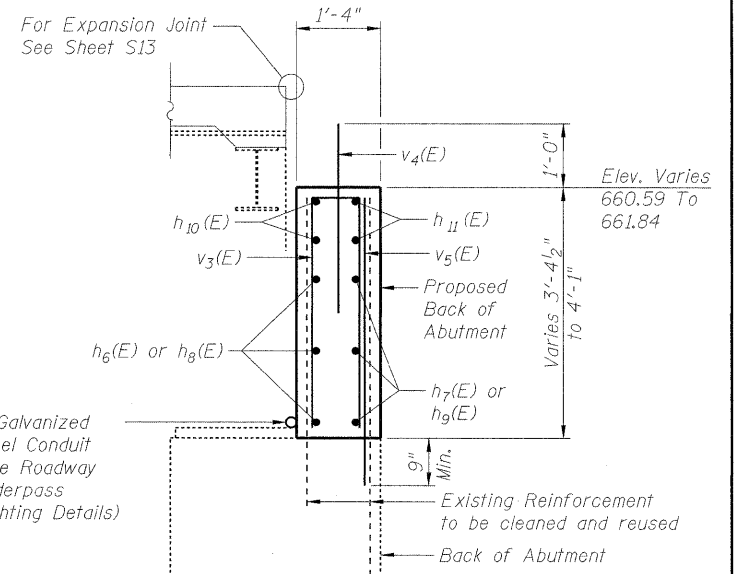
SHEET NO. S25 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	52
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

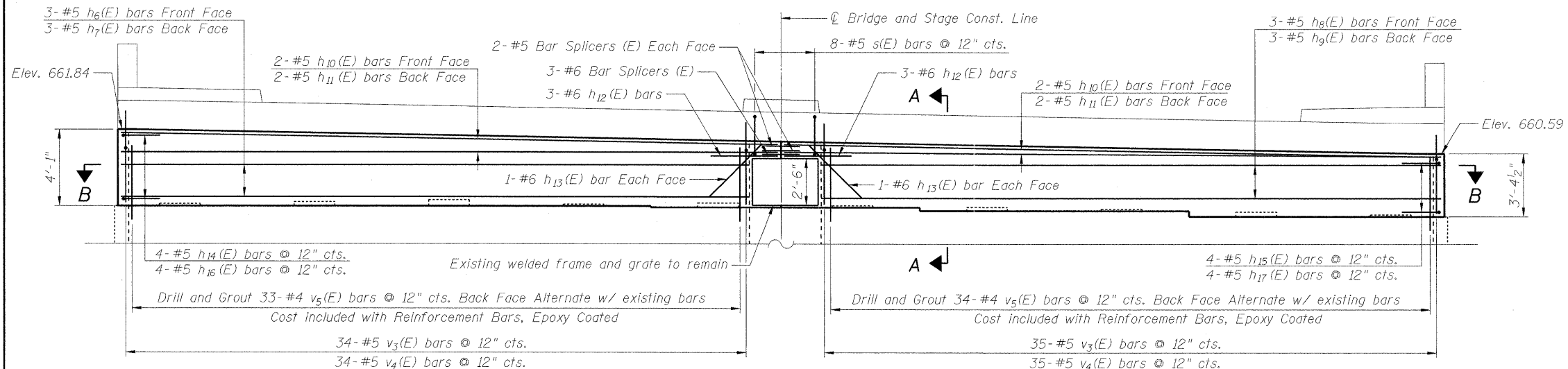


PLAN

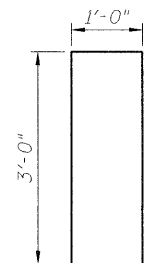
*Location of welded frame and grate to be verified in the field prior to ordering h₆(E) thru h₉(E) bars.



SECTION A-A



ELEVATION

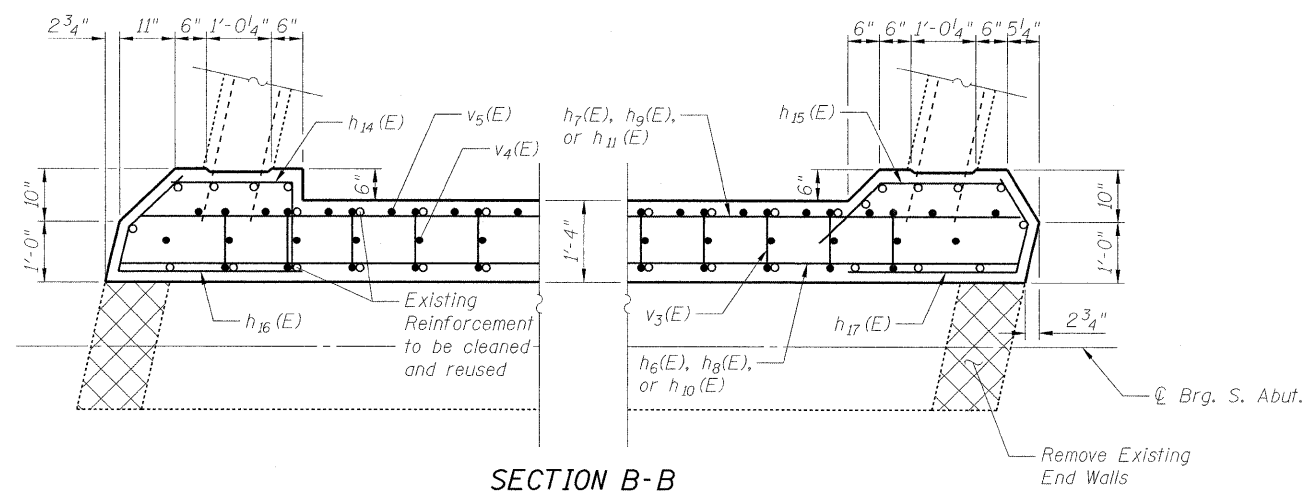


BAR s(E)

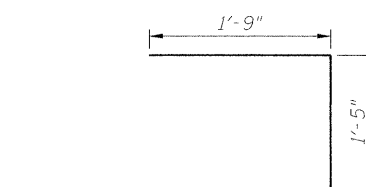
BAR v₃(E)

SOUTH ABUTMENT
BILL OF MATERIAL

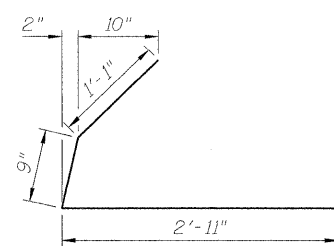
Bar	No.	Size	Length	Shape
h ₆ (E)	3	#5	33'-2"	
h ₇ (E)	3	#5	32'-9"	
h ₈ (E)	3	#5	33'-7"	
h ₉ (E)	3	#5	33'-9"	
h ₁₀ (E)	4	#5	35'-2"	
h ₁₁ (E)	4	#5	35'-0"	
h ₁₂ (E)	6	#6	6'-0"	
h ₁₃ (E)	4	#6	4'-0"	
h ₁₄ (E)	5	#5	3'-2"	
h ₁₅ (E)	4	#5	3'-3"	
h ₁₆ (E)	5	#5	4'-9"	
h ₁₇ (E)	4	#5	4'-6"	
s(E)	8	#5	6'-11"	
v ₃ (E)	69	#5	7'-0"	
v ₄ (E)	69	#5	3'-0"	
v ₅ (E)	67	#4	3'-11"	
Reinforcement Bars, Epoxy Coated			Pound	1,810
Concrete Structures			Cu. Yd.	12.9



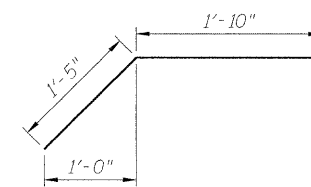
SECTION B-B



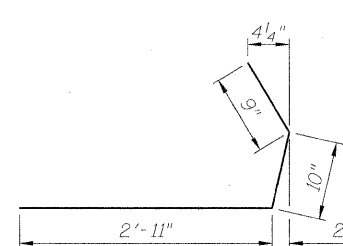
BAR h₁₄(E)



BAR h₁₆(E)



BAR h₁₅(E)

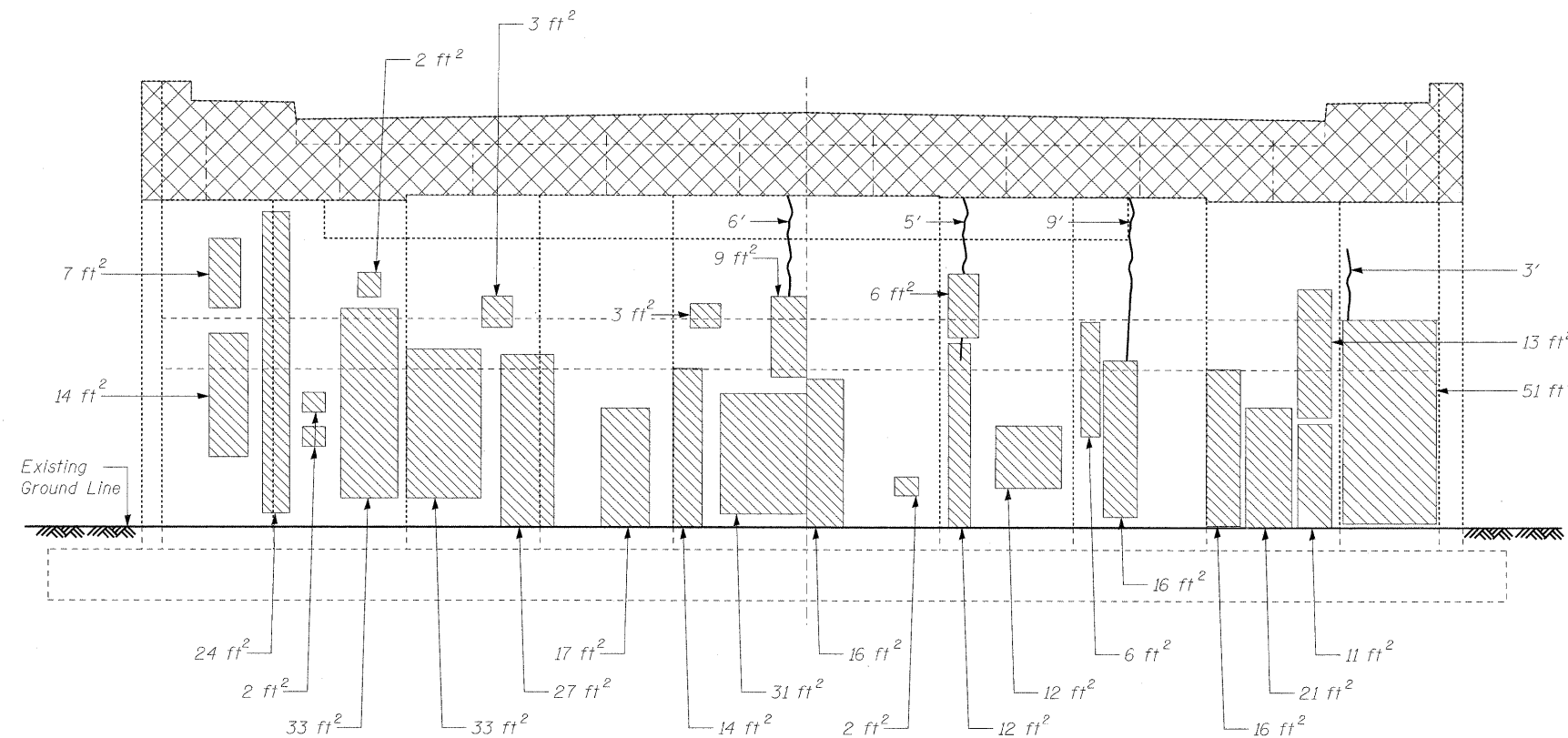


BAR h₁₇(E)

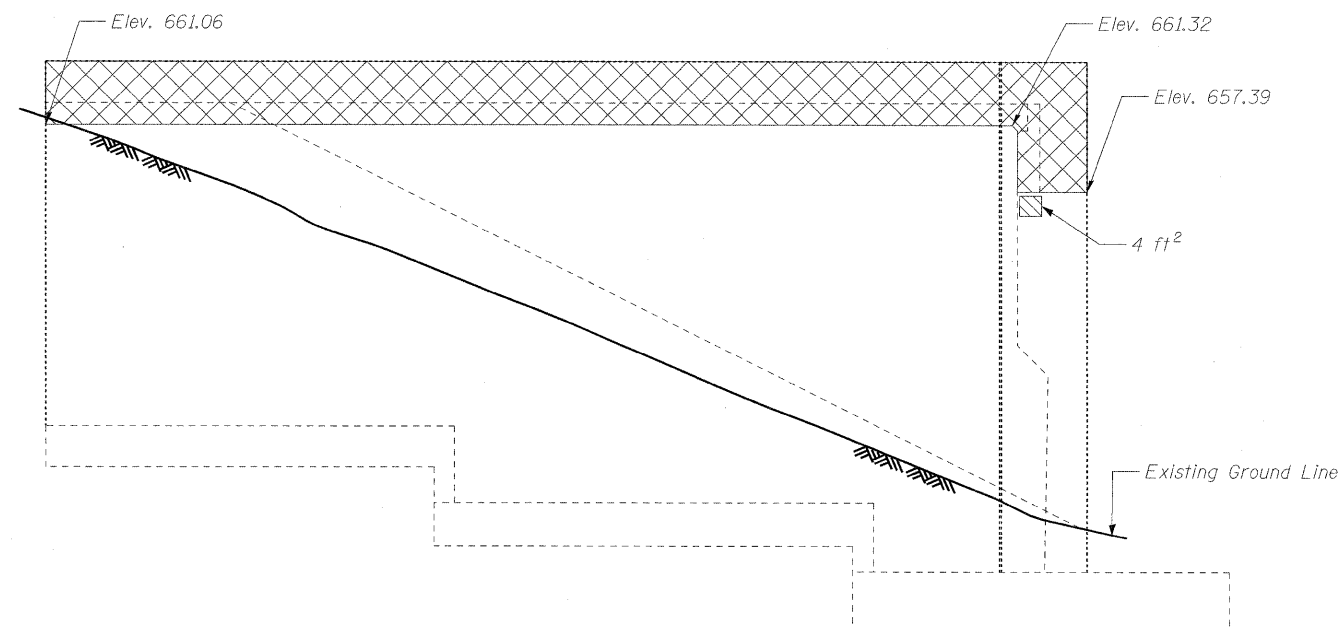
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BILL OF MATERIAL

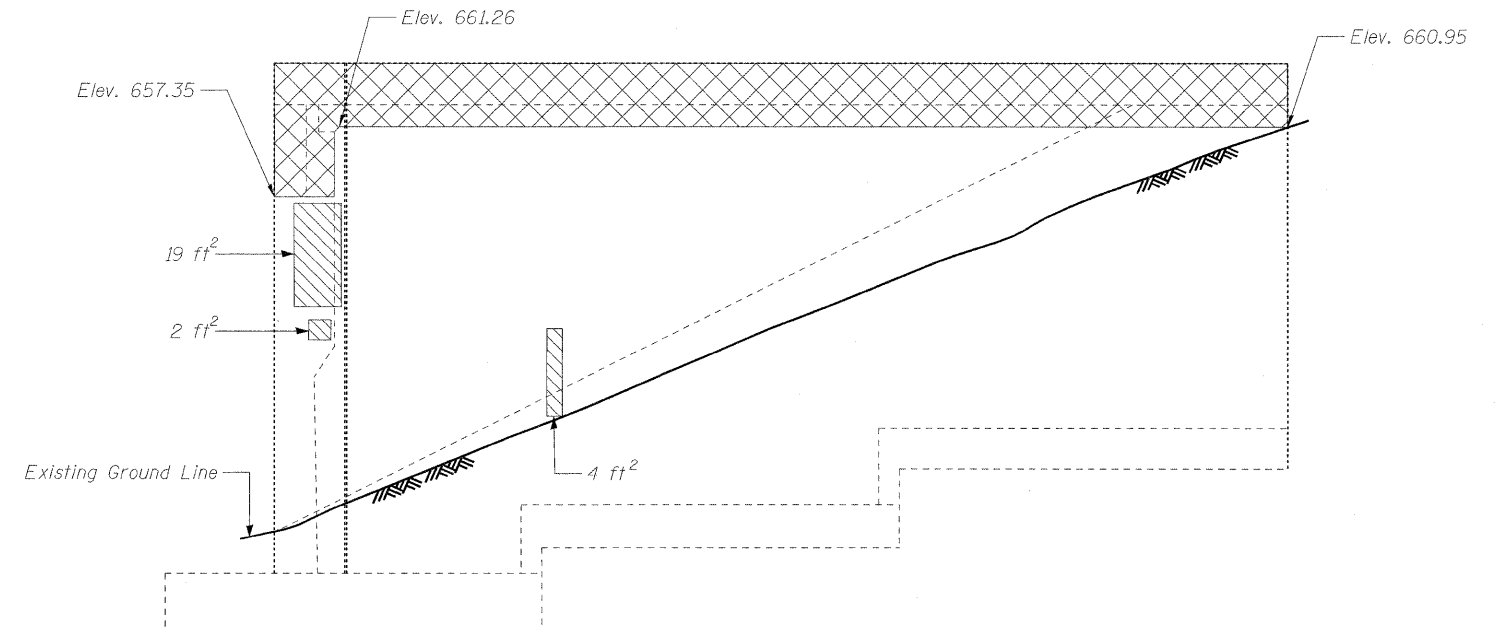
Item Description	Unit	Quantity
Concrete Removal	Cu. Yd.	26.4
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	432
Epoxy Crack Injection	Foot	23



NORTH ABUTMENT ELEVATION
(Looking North)

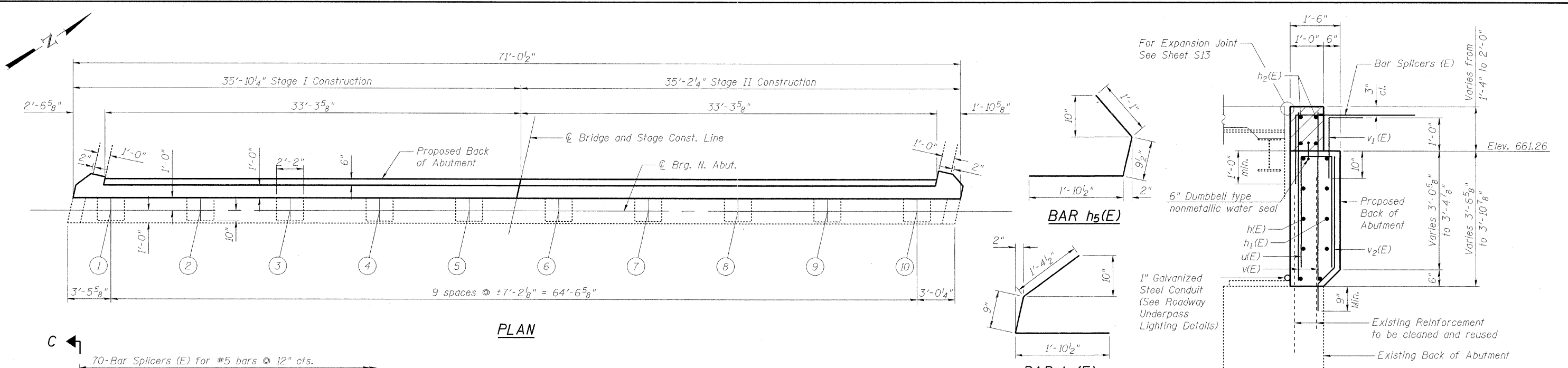


NORTHWEST WINGWALL ELEVATION
(Looking East)

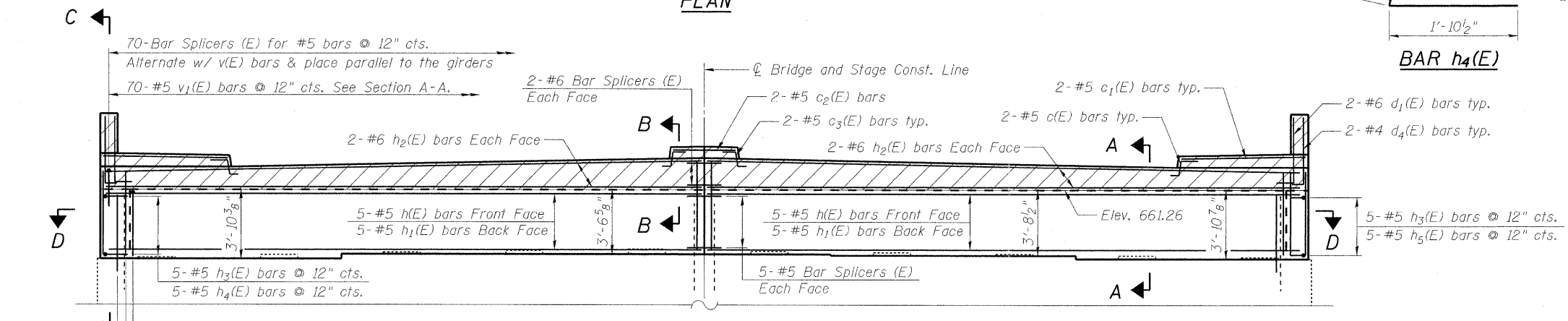


NORTHEAST WINGWALL ELEVATION
(Looking West)

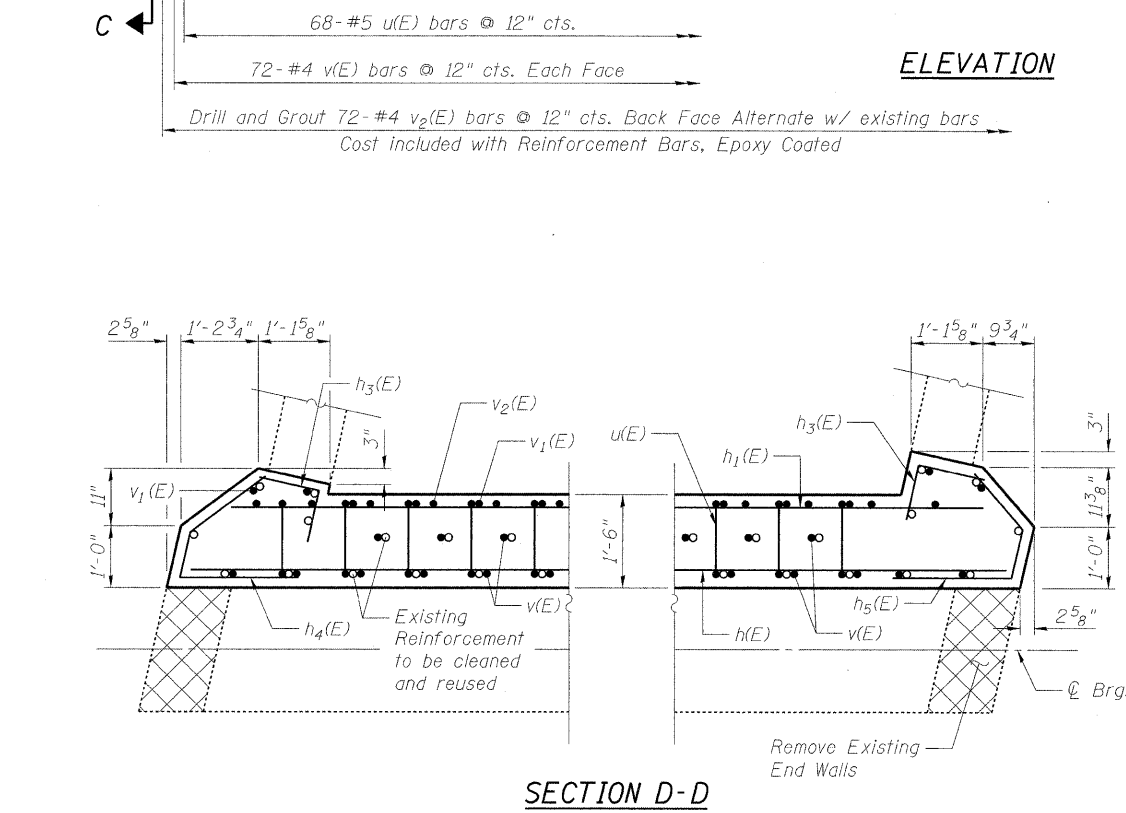
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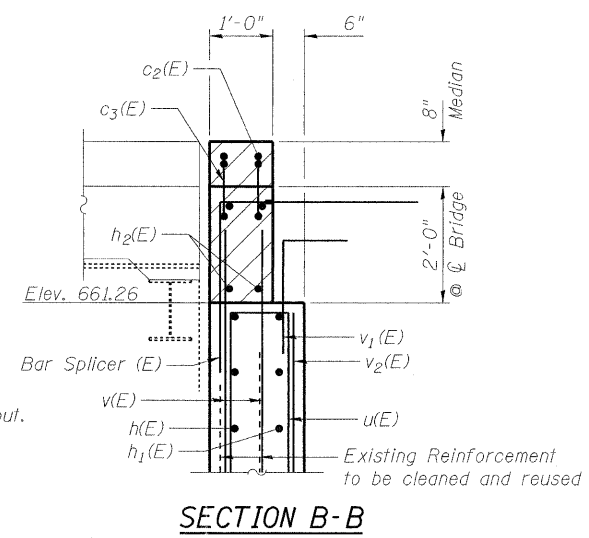
PLAN



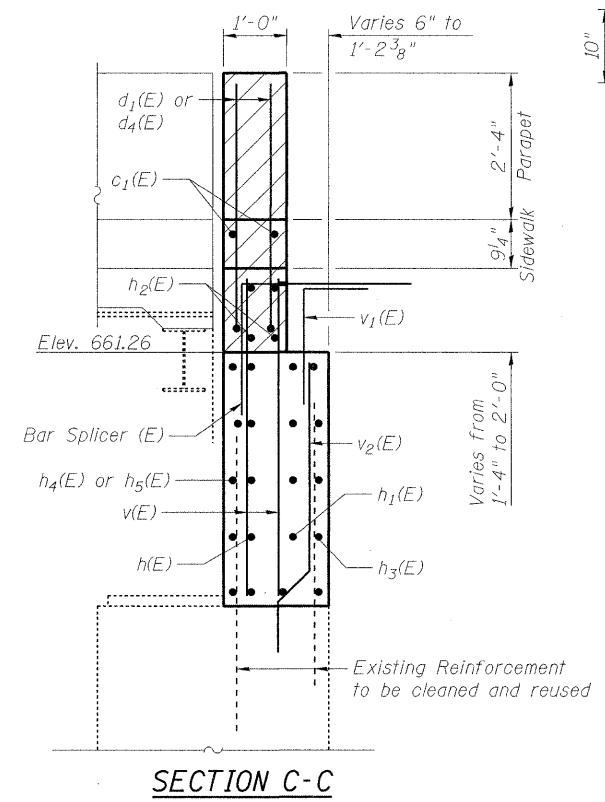
ELEVATION



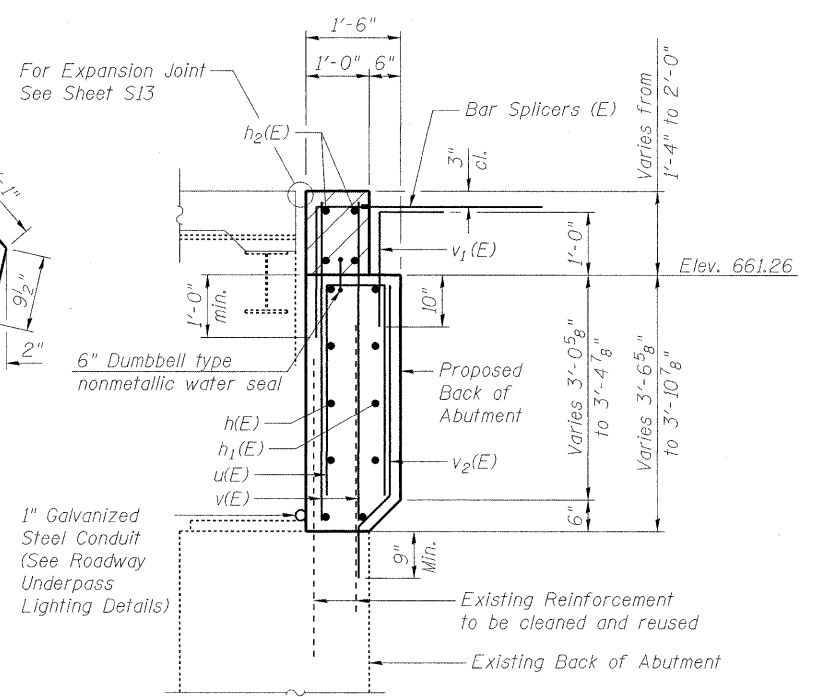
SECTION D-D



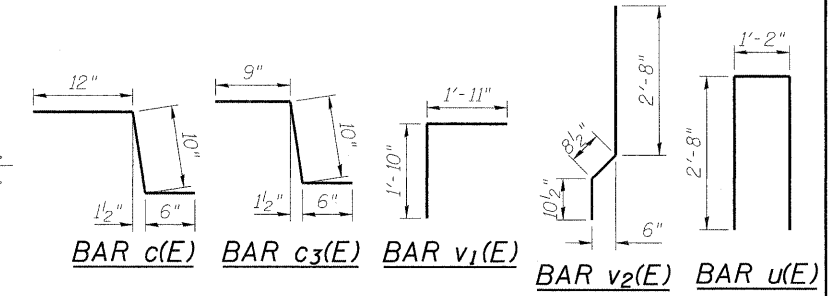
SECTION B-B



SECTION C-C



SECTION A-A



BAR c(E) BAR c3(E) BAR v1(E) BAR v2(E) BAR u(E)

BAR h3(E)

BAR d1(E)

BAR d4(E)

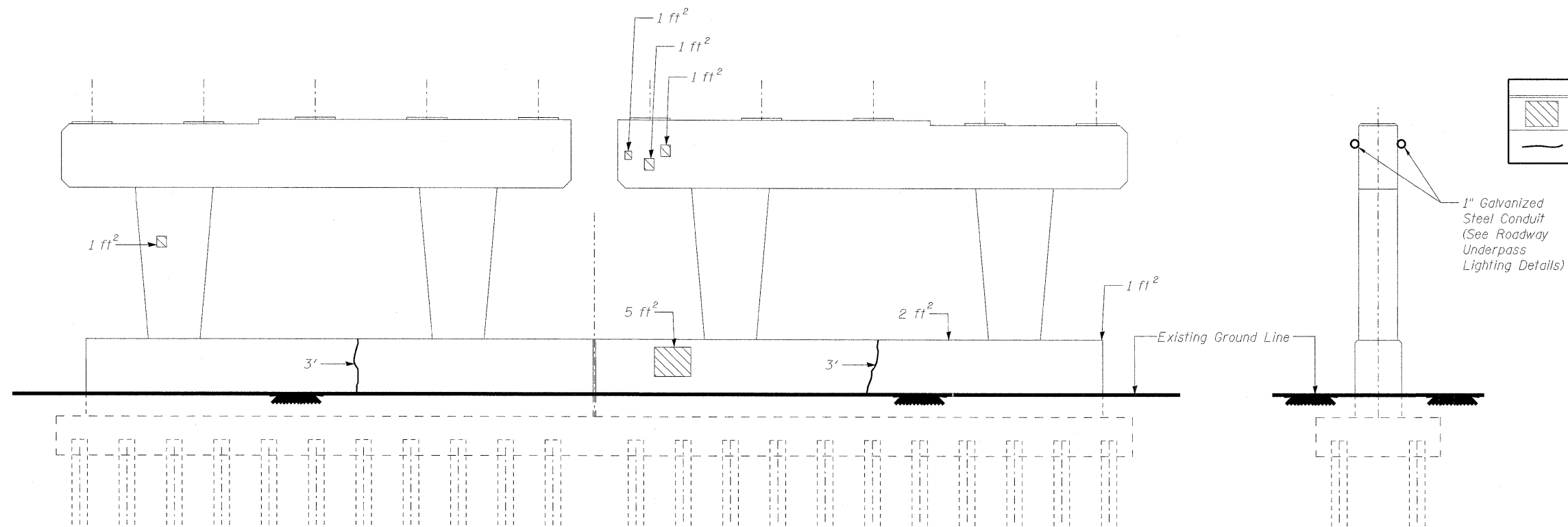
NORTH ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
c(E)	4	#5	2'-4"	U
c1(E)	4	#5	7'-0"	U
c2(E)	2	#5	3'-6"	U
c3(E)	4	#5	2'-1"	U
d1(E)	4	#6	4'-4"	L
d4(E)	4	#4	4'-6"	L
h(E)	10	#5	35'-2"	U
h1(E)	10	#5	34'-9"	U
h2(E)	8	#6	35'-2"	U
h3(E)	10	#5	1'-8"	L
h4(E)	5	#5	4'-0"	U
h5(E)	5	#5	3'-9"	U
u(E)	68	#5	6'-6"	U
v(E)	144	#4	4'-10"	U
v1(E)	70	#5	4'-9"	U
v2(E)	72	#4	4'-3"	U
Reinforcement Bars, Epoxy Coated			Pound	2,780
Concrete Structures			Cu. Yd.	14.7
Concrete Superstructure			Cu. Yd.	5.1

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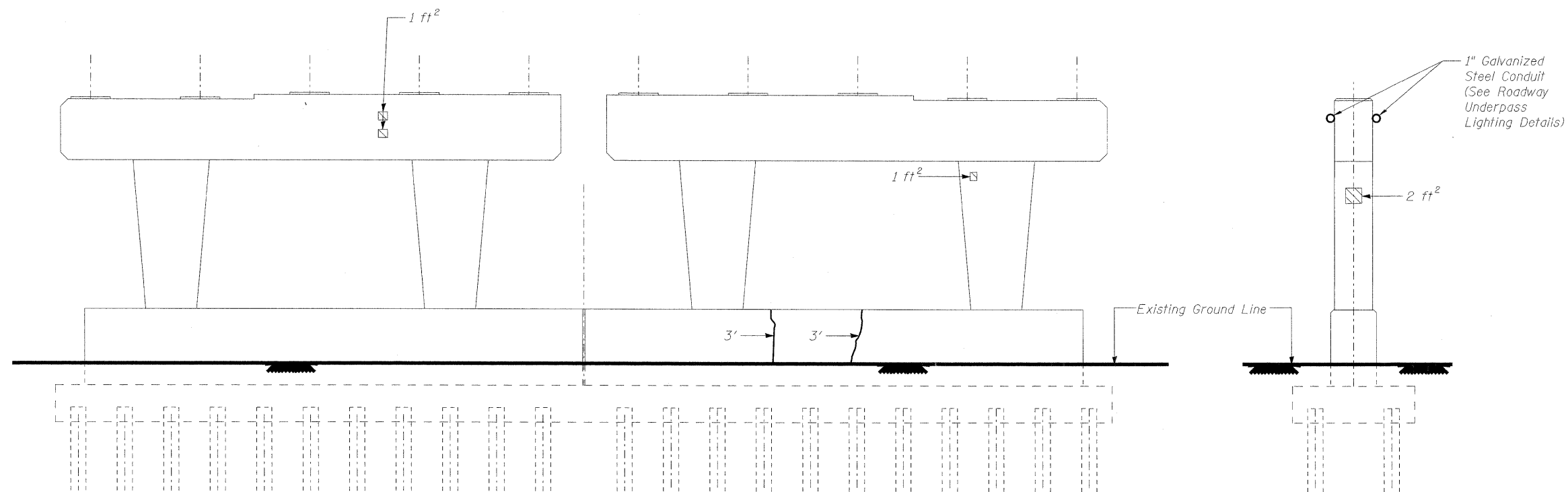
BILL OF MATERIAL

Item Description	Unit	Quantity
 Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	17
 Epoxy Crack Injection	Foot	12



SOUTH ELEVATION
(Looking North)

END VIEW
(Looking West)

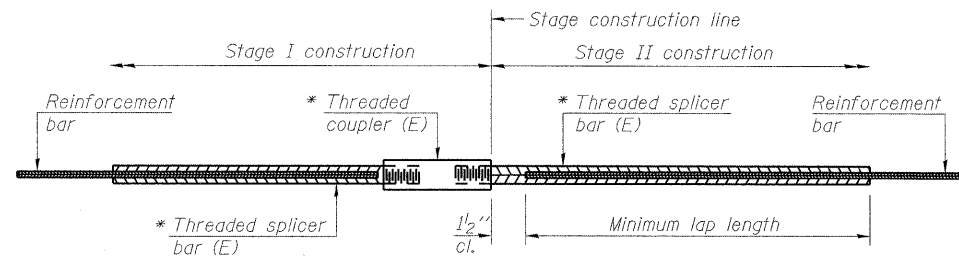


NORTH ELEVATION
(Looking South)

END VIEW
(Looking East)

FILE NAME = g:\project\2102155_004\ced\structure\ah\0161015.60863_029_Pier.dgn

	USER NAME = Zsagerb	DESIGNED - TWO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER REPAIR STRUCTURE NO. 016-1015 SHEET NO. 529 OF 36 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N/A	CHECKED - BHS	REVISED -			57	1112.1B	COOK	75	56
	PLOT DATE = 8/5/2011	DRAWN - TWO	REVISED -			CONTRACT NO. 60863				
		CHECKED - GSP	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

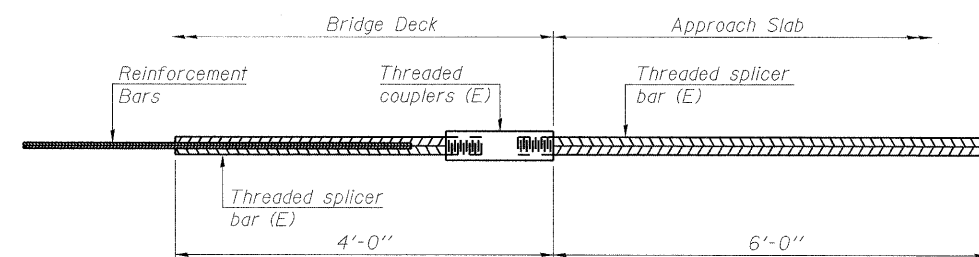
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

Table 1: Black bar, 0.8 Class C
 Table 2: Black bar, Top bar lap, 0.8 Class C
 Table 3: Epoxy bar, 0.8 Class C
 Table 4: Epoxy bar, Top bar lap, 0.8 Class C
 Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1 1/2' + thread length

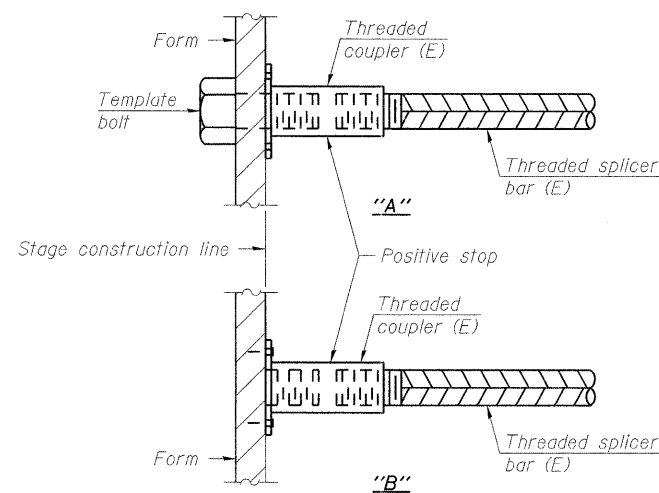
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	560	Table 3
Vaulted Span	#5	68	Table 4
Approach Slabs	#4	51	Table 3
Approach Slabs	#5	92	Table 3
Approach Footing	#5	80	Table 3
South Abutment	#5	4	Table 3
South Abutment	#6	3	Table 3
North Abutment	#5	10	Table 4
North Abutment	#6	4	Table 3



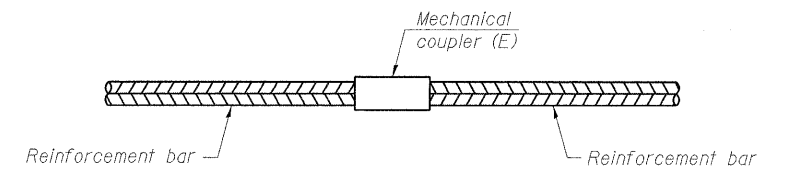
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 46



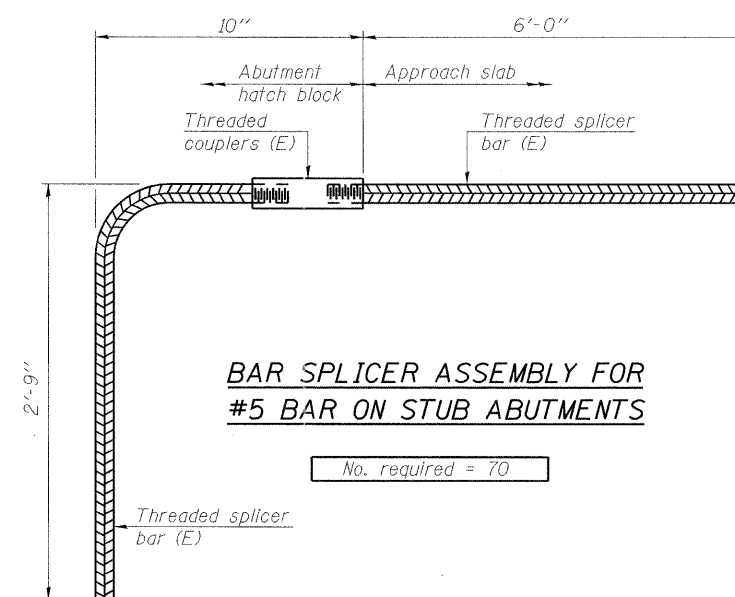
INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
 "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 70

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10



USER NAME = Zsayerb
 PLOT SCALE = N/A
 PLOT DATE = 6/5/2011

DESIGNED - TWO
 CHECKED - BHS
 DRAWN - TWO
 CHECKED - CSP

REVISED -
 REVISED -
 REVISED -
 REVISED -

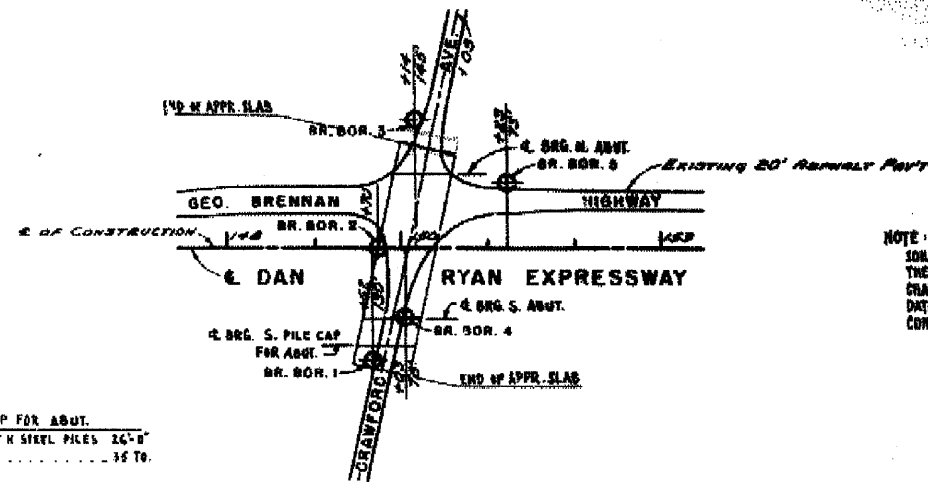
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY
 STRUCTURE NO. 016-1015

SHEET NO. S30 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	57
CONTRACT NO. 60863				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



NOTE:
SOIL BORINGS AT DESIGNATED LOCATIONS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR TO SHOW THE PROBABLE CHARACTERISTICS OF THE SOIL IN THE AREA. USE OF THIS BORING DATA BY THE CONTRACTOR TO EVALUATE CONSTRUCTION CONDITIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

BORING PLAN
SCALE 1"=100'

BRIDGE BORINGS

VERT. SCALE 1"=5'
BORING NO. 3
AT CRAWFORD AVE.

BORING NO. 4
AT CRAWFORD AVE.

BORING NO. 5
AT CRAWFORD AVE.

BORING NO. 1
AT CRAWFORD AVE.

BORING NO. 2
AT CRAWFORD AVE.

BLOWS PER FOOT	U.C.S. TONS PER SQ. FT.	% MOIST. OVER DRY WT.	DEPTH IN FEET	TYPE OF SOIL
14	—	20.0	0.0	Gr. Clay 650.20 (71.1)
37	4.1	19.2	2.0	Gr. Clay 650.20 (71.1)
42	6.7	16.7	4.0	Gr. Clay 650.20 (71.1)
44	9.4	17.3	6.0	Gr. Clay 650.20 (71.1)
44	4.8	19.4	8.0	Gr. Clay 650.20 (71.1)
57	4.5	19.6	10.0	Gr. Clay 650.20 (71.1)
36	4.2	19.7	12.0	Gr. Clay 650.20 (71.1)
34	4.2	19.0	14.0	Gr. Clay 650.20 (71.1)
15	2.5	19.1	16.0	Gr. Clay 650.20 (71.1)
18	2.7	20.0	18.0	Gr. Clay 650.20 (71.1)
15	2.3	22.3	20.0	Gr. Clay 650.20 (71.1)
10	2.6	19.0	22.0	Gr. Clay 650.20 (71.1)
34	4.1	12.7	24.0	Gr. Clay 650.20 (71.1)
32	4.1	12.4	26.0	Gr. Clay 650.20 (71.1)
45	4.1	16.3	28.0	Gr. Clay 650.20 (71.1)
41	—	15.5	30.0	Gr. Clay 650.20 (71.1)
34	—	14.0	32.0	Gr. Clay 650.20 (71.1)
50	—	16.5	34.0	Gr. Clay 650.20 (71.1)
21	2.5	27.6	36.0	Gr. Clay 650.20 (71.1)
20	3.0	20.0	38.0	Gr. Clay 650.20 (71.1)

Date of Boring: April 7, 1965

BLOWS PER FOOT	U.C.S. TONS PER SQ. FT.	% MOIST. OVER DRY WT.	DEPTH IN FEET	TYPE OF SOIL
9	—	24.2	0.0	Gr. Clay 650.20 (71.1)
34	5.3	17.1	2.0	Gr. Clay 650.20 (71.1)
32	5.5	21.4	4.0	Gr. Clay 650.20 (71.1)
34	4.6	20.9	6.0	Gr. Clay 650.20 (71.1)
73	8.2	18.4	8.0	Gr. Clay 650.20 (71.1)
48	6.3	19.1	10.0	Gr. Clay 650.20 (71.1)
43	6.3	17.9	12.0	Gr. Clay 650.20 (71.1)
10	5.7	18.2	14.0	Gr. Clay 650.20 (71.1)
13	2.0	18.3	16.0	Gr. Clay 650.20 (71.1)
13	1.3	20.5	18.0	Gr. Clay 650.20 (71.1)
13	1.6	19.6	20.0	Gr. Clay 650.20 (71.1)
16	1.5	20.6	22.0	Gr. Clay 650.20 (71.1)
16	1.5	18.0	24.0	Gr. Clay 650.20 (71.1)
21	1.8	19.2	26.0	Gr. Clay 650.20 (71.1)
28	3.0	17.6	28.0	Gr. Clay 650.20 (71.1)
32	4.0	3.7	30.0	Gr. Clay 650.20 (71.1)
20	—	12.3	32.0	Gr. Clay 650.20 (71.1)
16	—	13.2	34.0	Gr. Clay 650.20 (71.1)
20	—	14.0	36.0	Gr. Clay 650.20 (71.1)
23	—	18.4	38.0	Gr. Clay 650.20 (71.1)
60	4.5	20.2	40.0	Gr. Clay 650.20 (71.1)
35	4.5	12.7	42.0	Gr. Clay 650.20 (71.1)

Date of Boring: March 12, 1965

BLOWS PER FOOT	U.C.S. TONS PER SQ. FT.	% MOIST. OVER DRY WT.	DEPTH IN FEET	TYPE OF SOIL
6	—	19.1	0.0	Gr. Clay 650.20 (71.1)
42	2.5	18.7	2.0	Gr. Clay 650.20 (71.1)
65	6.1	18.0	4.0	Gr. Clay 650.20 (71.1)
45	5.7	18.0	6.0	Gr. Clay 650.20 (71.1)
31	6.1	18.2	8.0	Gr. Clay 650.20 (71.1)
27	4.2	20.0	10.0	Gr. Clay 650.20 (71.1)
26	4.1	20.2	12.0	Gr. Clay 650.20 (71.1)
14	2.8	20.3	14.0	Gr. Clay 650.20 (71.1)
21	2.8	19.8	16.0	Gr. Clay 650.20 (71.1)
31	3.0	21.2	18.0	Gr. Clay 650.20 (71.1)
20	1.8	18.1	20.0	Gr. Clay 650.20 (71.1)
23	1.3	11.2	22.0	Gr. Clay 650.20 (71.1)
27	—	10.5	24.0	Gr. Clay 650.20 (71.1)
30	—	15.3	26.0	Gr. Clay 650.20 (71.1)
23	—	15.3	28.0	Gr. Clay 650.20 (71.1)
22	2.8	14.3	30.0	Gr. Clay 650.20 (71.1)
23	2.7	14.6	32.0	Gr. Clay 650.20 (71.1)
27	—	12.9	34.0	Gr. Clay 650.20 (71.1)
26	2.8	12.3	36.0	Gr. Clay 650.20 (71.1)
35	4.0	16.0	38.0	Gr. Clay 650.20 (71.1)
20	3.5	16.5	40.0	Gr. Clay 650.20 (71.1)
35	4.1	21.8	42.0	Gr. Clay 650.20 (71.1)
32	4.1	20.8	44.0	Gr. Clay 650.20 (71.1)
25	4.1	18.2	46.0	Gr. Clay 650.20 (71.1)

Date of Boring: March 25, 1965

BLOWS PER FOOT	U.C.S. TONS PER SQ. FT.	% MOIST. OVER DRY WT.	DEPTH IN FEET	TYPE OF SOIL
6	—	12.2	0.0	Gr. Clay 650.20 (71.1)
25	2.5	18.7	2.0	Gr. Clay 650.20 (71.1)
17	2.6	18.4	4.0	Gr. Clay 650.20 (71.1)
35	9.1	18.2	6.0	Gr. Clay 650.20 (71.1)
62	5.8	18.2	8.0	Gr. Clay 650.20 (71.1)
64	6.8	20.1	10.0	Gr. Clay 650.20 (71.1)
38	4.5	18.7	12.0	Gr. Clay 650.20 (71.1)
50	4.9	18.2	14.0	Gr. Clay 650.20 (71.1)
37	5.6	19.1	16.0	Gr. Clay 650.20 (71.1)
36	6.4	20.4	18.0	Gr. Clay 650.20 (71.1)
27	4.2	18.4	20.0	Gr. Clay 650.20 (71.1)
13	—	18.5	22.0	Gr. Clay 650.20 (71.1)
14	—	21.6	24.0	Gr. Clay 650.20 (71.1)
23	2.7	19.2	26.0	Gr. Clay 650.20 (71.1)
27	2.6	16.5	28.0	Gr. Clay 650.20 (71.1)
13	2.8	12.3	30.0	Gr. Clay 650.20 (71.1)
38	—	12.8	32.0	Gr. Clay 650.20 (71.1)
31	—	14.1	34.0	Gr. Clay 650.20 (71.1)
14	1.5	22.8	36.0	Gr. Clay 650.20 (71.1)
24	1.8	21.3	38.0	Gr. Clay 650.20 (71.1)
25	1.8	18.7	40.0	Gr. Clay 650.20 (71.1)
50	3.0	18.6	42.0	Gr. Clay 650.20 (71.1)
23	4.0	18.4	44.0	Gr. Clay 650.20 (71.1)
22	3.0	18.2	46.0	Gr. Clay 650.20 (71.1)
62	2.5	19.1	48.0	Gr. Clay 650.20 (71.1)
32	—	18.5	50.0	Gr. Clay 650.20 (71.1)
34	—	16.5	52.0	Gr. Clay 650.20 (71.1)
24	—	18.7	54.0	Gr. Clay 650.20 (71.1)
26	—	16.5	56.0	Gr. Clay 650.20 (71.1)
20	2.0	18.2	58.0	Gr. Clay 650.20 (71.1)

Date of Boring: March 25, 1965

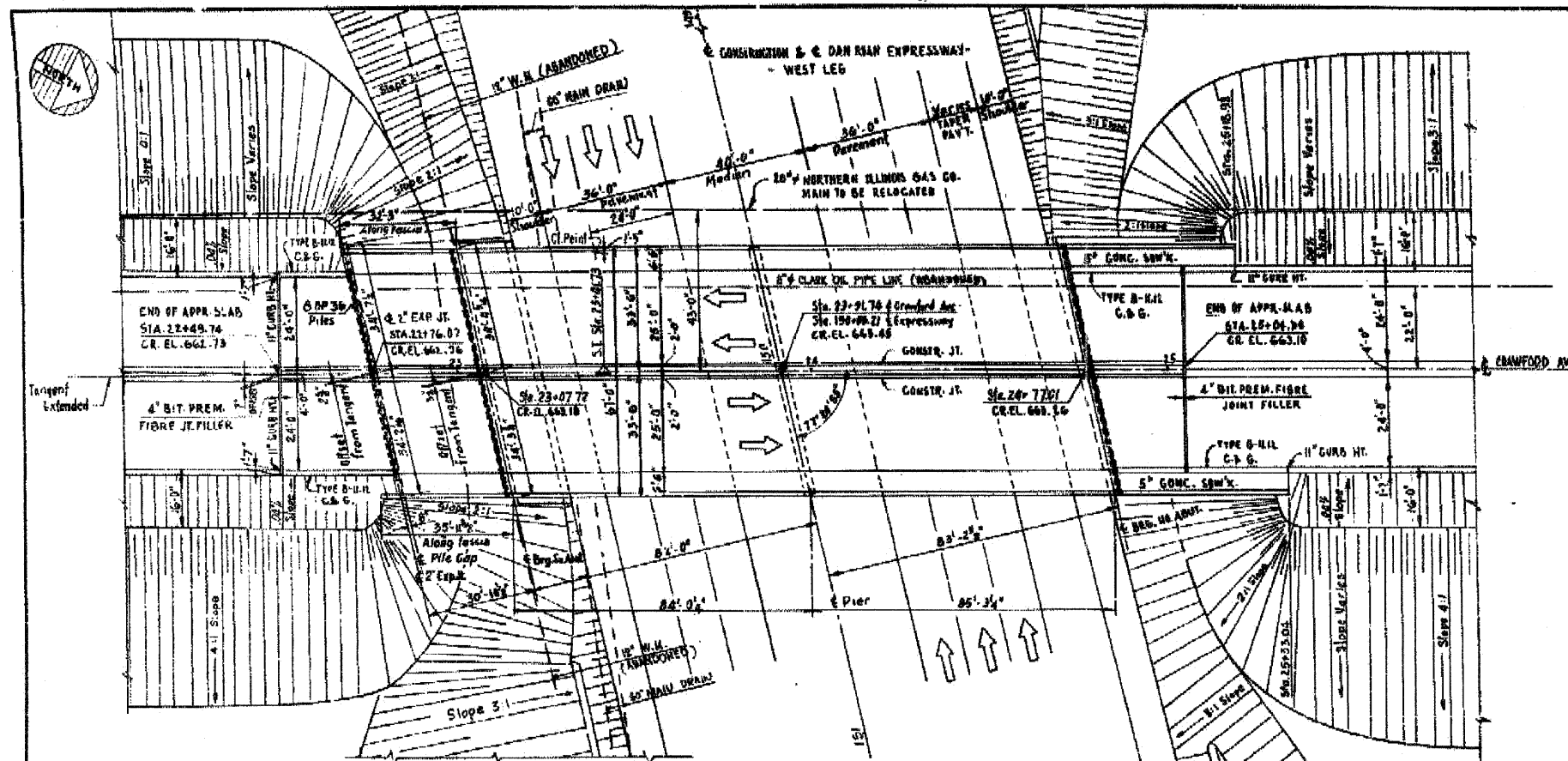
BLOWS PER FOOT	U.C.S. TONS PER SQ. FT.	% MOIST. OVER DRY WT.	DEPTH IN FEET	TYPE OF SOIL
9	—	22.8	0.0	Gr. Clay 650.20 (71.1)
38	4.4	19.1	2.0	Gr. Clay 650.20 (71.1)
34	2.2	18.7	4.0	Gr. Clay 650.20 (71.1)
38	2.3	17.9	6.0	Gr. Clay 650.20 (71.1)
53	6.4	17.7	8.0	Gr. Clay 650.20 (71.1)
59	5.5	17.0	10.0	Gr. Clay 650.20 (71.1)
32	4.2	19.6	12.0	Gr. Clay 650.20 (71.1)
30	4.1	15.8	14.0	Gr. Clay 650.20 (71.1)
20	2.5	14.2	16.0	Gr. Clay 650.20 (71.1)
20	2.3	19.1	18.0	Gr. Clay 650.20 (71.1)
24	2.7	19.9	20.0	Gr. Clay 650.20 (71.1)
28	2.7	19.3	22.0	Gr. Clay 650.20 (71.1)
35	3.1	19.1	24.0	Gr. Clay 650.20 (71.1)
31	—	18.0	26.0	Gr. Clay 650.20 (71.1)
30	—	18.0	28.0	Gr. Clay 650.20 (71.1)
32	—	19.6	30.0	Gr. Clay 650.20 (71.1)
23	2.0	13.2	32.0	Gr. Clay 650.20 (71.1)
23	2.1	12.8	34.0	Gr. Clay 650.20 (71.1)
128	—	20.2	36.0	Gr. Clay 650.20 (71.1)
41	—	15.8	38.0	Gr. Clay 650.20 (71.1)
41	3.0	14.3	40.0	Gr. Clay 650.20 (71.1)
41	3.1	20.4	42.0	Gr. Clay 650.20 (71.1)
15	1.3	24.4	44.0	Gr. Clay 650.20 (71.1)
15	1.5	25.6	46.0	Gr. Clay 650.20 (71.1)
14	1.5	19.0	48.0	Gr. Clay 650.20 (71.1)
24	1.7	20.6	50.0	Gr. Clay 650.20 (71.1)
22	1.7	15.8	52.0	Gr. Clay 650.20 (71.1)
22	2.3	17.7	54.0	Gr. Clay 650.20 (71.1)
20	4.0	14.0	56.0	Gr. Clay 650.20 (71.1)
26	—	22.9	58.0	Gr. Clay 650.20 (71.1)

Date of Boring: March 25, 1965

AVERAGE RESULTS OF LABORATORY TESTS														
TEXTURAL CLASSIFICATION	P.R.A. CLASS.	GRADATION % OF TOTAL					PHYSICAL TEST CONSTANTS							NO. OF SAMPLES TESTED
		COARSE AGG.	COARSE SAND	FINE SAND	SILT	CLAY	L.L.	P.L.	P.I.	F.M.E.	S.L.	S.R.	L.S.	

LEGEND	—————	EXISTING PROFILE	—————	WATER TABLE	BORINGS IN PROFILE
	—————	PROPOSED GRADE LINE	⊕	BORINGS IN PLAN	

LEGEND													
EXISTING PROFILE													
PROPOSED GRADE LINE													
WATER TABLE													
BORINGS IN PLAN													
BORINGS IN PROFILE													

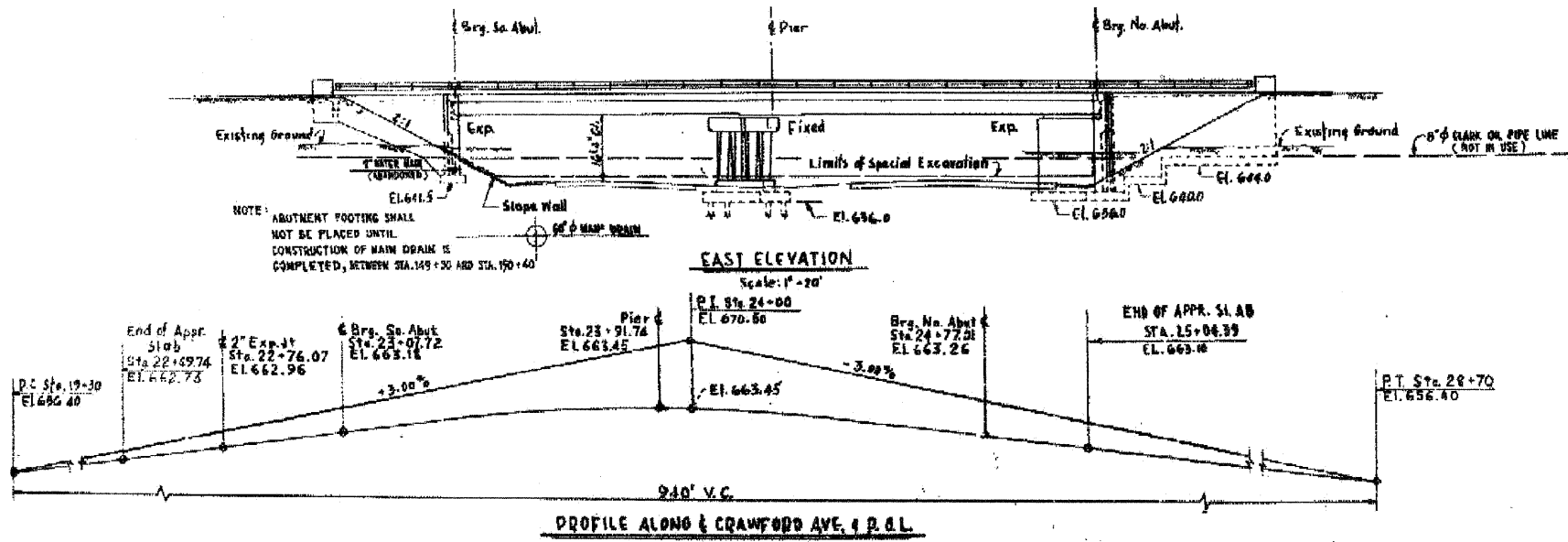


CURVE DATA

CA = 32°36'48"	CC = 24°25'18"
CS = 175.00'	CD = 4°30'00"
TS = 459.54'	LC = 541.89'
ES = 54.19'	R = 1273.57'
OS = 5°56'15"	S = 0.00'
AS = 174.96'	
YC = 4.0875'	

BENCH MARK 230-167th ST. & CRAWFORD AVE
 A STANDARD COUNTY BENCH MARK 44.7' SOUTH
 AND 30' EAST OF SURVEY MARKER AT CENTER
 OF INTERSECTION OF 167th & CRAWFORD
 C.O.H.A. EL. 668.956

PLAN
 Scale: 1" = 20'



EAST ELEVATION
 Scale: 1" = 20'

PROFILE ALONG CRAWFORD AVE. & P.B.L.

DESIGN DATA

LOADING:
 Live Load HS20-44
 Future Load 3" of Bituminous Wearing Surface

SPECIFICATIONS:
 DESIGN A.A.S.H.O. Specifications for Highway Bridges, 1961 and as amended to date.
 CONSTRUCTION & MATERIALS Standard Specifications for Road and Bridge Construction of the State of Illinois, 1956
 Supplemental Specifications, 1968
 WELDING A.W.S. STANDARD SPECIFICATIONS for Welded Highway and Railway Bridges, 1963 and Addenda of March, 1965.

ALLOWABLE STRESSES:

f _s Structural Steel (A.S.T.M.-A36)	20,000 p.s.i.
f _c Flexural Compressive Stress of Concrete	1,400 p.s.i.
f _s Reinforcement Bars	20,000 p.s.i.
f _c Compressive Stress of Concrete in Earth Pressure	1,000 p.s.i.
Equivalent Fluid Pressure	40 p.s.f.
n	10

SUPERSTRUCTURE:
 All girders are designed as 2-span continuous plate girders with Composite action in the positive moment areas.
 Maximum live load deflection = 1/1200.
 Shear connectors shall be automatically welded studs.

FOUNDATION:
 Abutments are supported on Spread Footings. Maximum allowable soil pressure = 4000 p.s.f.
 Pier and Pile Cap for abutment are supported on 8 Bearing Piles. Piles are 8HP16. Bearing capacity of piles: For Pier = 37 tons, For South Pile Cap for abutment = 35 tons.

GENERAL NOTES:
 Class "X" Concrete shall be used throughout. The concrete deck slab shall be placed in one continuous operation from expansion joint to expansion joint. Pour the slab full width with horizontal joints and a 1 inch wide joint sealant between the slabs and the curbs and bonded construction joints as shown. Finishing of the deck slab shall be as specified in the Article 51.19 of the Standard Specifications.

After concrete is cured, finished and the surfaces are clean and dry, the exposed surfaces of the deck slab, approach slabs, curbs, sidewalks and parapet walls shall be given a protective coat. See Supplemental Specifications Article 52.14a.

Permanent forms will not be permitted in forming concrete deck slabs. All concrete shall be chambered 3/4" unless otherwise shown or noted on plans.

Handrail Parapet Wall Concrete shall be free from chert, flint, limonite, lignite, and soft sandstone.

Exposed surfaces of the abutment walls and retaining walls shall be given a rubbed finish in accordance with Article 52.13 of the Standard Specifications.

The part of the Abutments and Retaining Walls that are in contact with earth or embankment material shall be covered with waterproofing in accordance with Article 51.21 of the Standard Specifications.

The cost of rubbed finish, waterproofing, rubber waterproofing and the bituminous premoulded fibre joint fillers shall be included in the contract unit bid price for Class "X" Concrete.

The Contractor shall adequately support, brace and protect bituminous premoulded fibre joint filler during construction, so that it does not become torn and distorted. The Contractor's method of supporting, bracing and protecting the bituminous premoulded fibre joint filler shall be approved by the Engineer. The rubber waterproofing shall be applied as recommended by the manufacturer.

For "Bridge Seat Sealant" see Special Provisions.

STRUCTURAL STEEL:
 All structural steel shall conform to the requirements of A.S.T.M.-A36 except as otherwise shown or noted.
 Welding shall be in accordance with current Specifications for Welded Highway and Railway Bridges of the American Welding Society and as noted on the Plans and in the Special Provisions.
 The Bridge Seats shall be constructed to the exact Elevations shown. If bush hammering or grinding is necessary this work shall be done at no additional cost to the County.

REINFORCEMENT BARS:
 All reinforcement bars shall conform to A.S.T.M. A 305-50F as amended to date and shall comply with A.S.T.M. A15-50T Specification. Reinforcement Bars shall be delivered, tagged and bundled in conformance with Supplemental Specifications. Top of Beam Reinforcement bars shall be spaced by Shop Detailer to Clear anchor bolts. Reinforcement Bars shall comply with Article 59 of the State Standard Specifications.

TRAFFIC:
 Traffic Classification 1210 T
 FOR ENGINEER'S FIELD OFFICE AND ENGINEER'S FIELD LABORATORY SEE SPECIAL PROVISION.

REVISIONS

DATE	BY	DESCRIPTION
11-1-63	T.A.	ADD NOTES FOR ENGINEER'S FIELD OFFICE AND LABORATORY
2-1-68	M.P.	ADD NOTE ABOUT MAIN DRAIN

DEPARTMENT OF HIGHWAYS
 COOK COUNTY, ILLINOIS

ANDREW V. PLUMMER
 SUPERVISOR OF HIGHWAYS

GENERAL PLAN
 CRAWFORD AVE GRADE SEPARATION
 OVER
 DAN RYAN EXPRESSWAY - WEST LEG

COMPUTED BY: [Signature] PROJECT: 1-57-11961-449
 CHECKED BY: [Signature] SCALE: 1" = 20'
 APPROVED BY: [Signature] DATE: 10/1/67

57	066-112-1	2	67	SR 1248-S
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PLOT SCALE = N/A
PLOT DATE = 6/5/2011

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CHECKED - BHS
DRAWN - TWO
CHECKED - GSP

REVISED -
REVISED -
REVISED -
REVISED -

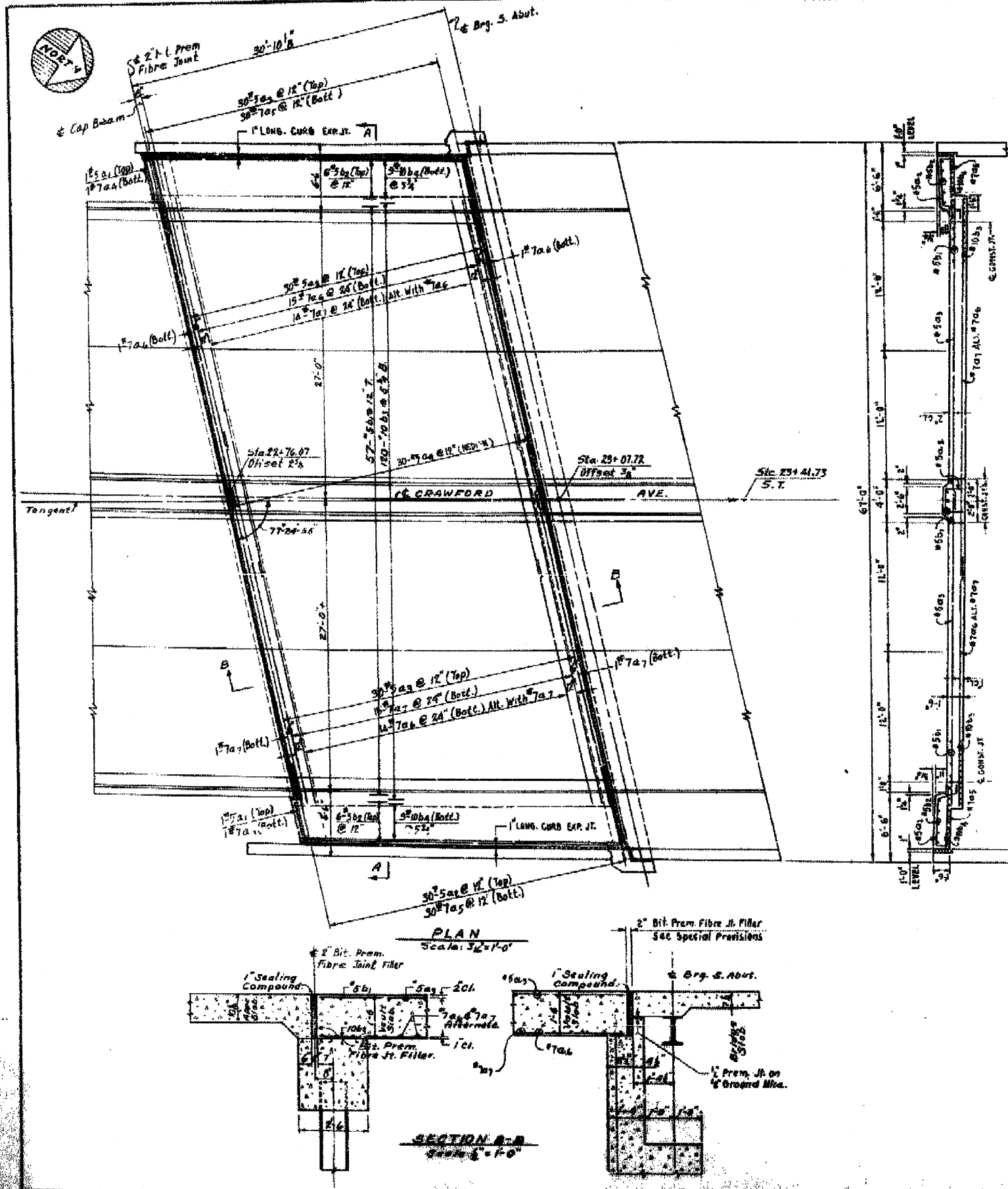
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (3 OF 6)
STRUCTURE NO. 016-1015

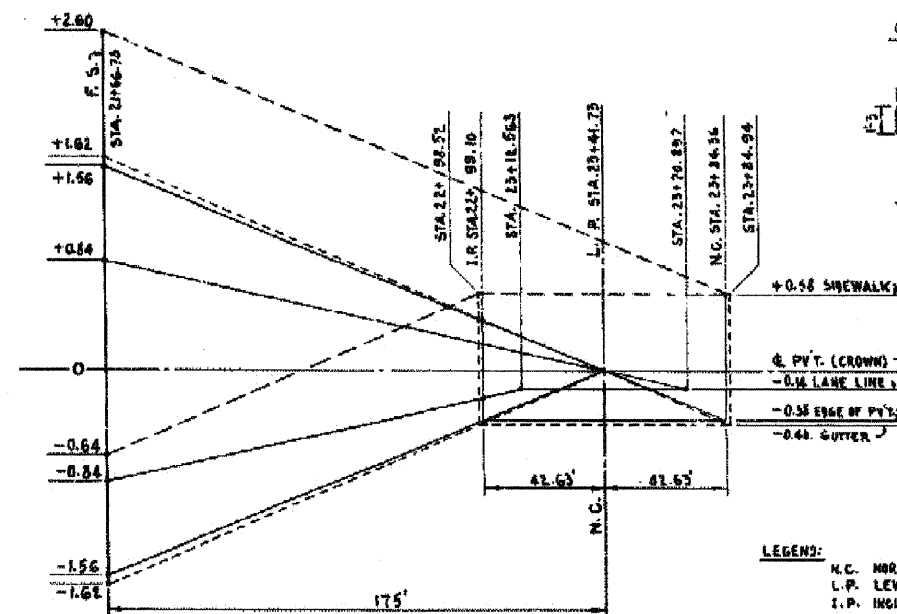
SHEET NO. 533 OF 36 SHEETS

F.A.T. R.T.E. 57
SECTION 1112.1B
COUNTY COOK
TOTAL SHEETS 75
SHEET NO. 60
CONTRACT NO. 60863

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



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



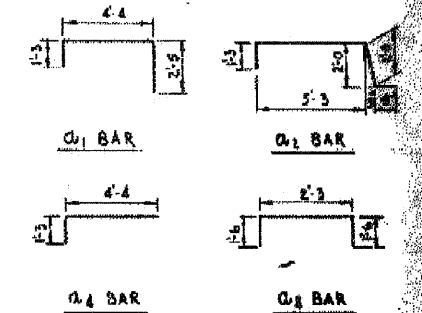
METHOD OF ATTAINING SUPERELEVATION

SCALE: HOR. 1" = 30'
VER. 1" = 10'

BAR SCHEDULE					
MARK	NO.	SIZE	LENGTH	SKETCH	LOCATION
Q1	2	#5	8'-0"		TOP SIDEWALK
Q2	60	#5	9'-3"		"
Q3	60	#5	18'-8"		TOP SLAB
Q4	2	#7	5'-7"		BOTT. SIDEWALK
Q5	60	#7	6'-2"		"
Q6	31	#7	25'-4"		BOTT. SLAB
Q7	31	#7	35'-10"		"
Q8	30	#5	5'-3"		MEDIAN
b1	67	#5	18'-8"		TOP SLAB
b2	12	#5	30'-4"		TOP SIDEWALK
b3	120	#10	28'-8"		BOTT. SLAB
b4	18	#10	30'-4"		BOTT. SIDEWALK

BILL OF MATERIAL

CLASS "X" CONCRETE	113.5	CU YD
REINFORCEMENT BARS	264.200	LBS
LONGITUDINAL CURB EXPANSION JOINT	98.0	LB. FT.
PROTECTIVE COAT	236.0	SQ. YD.



LEGEND:
N.C. NORMAL CROWN
L.P. LEVEL PLANE
I.P. INCLINED PLANE
F.S. FULL SUPERELEVATION

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

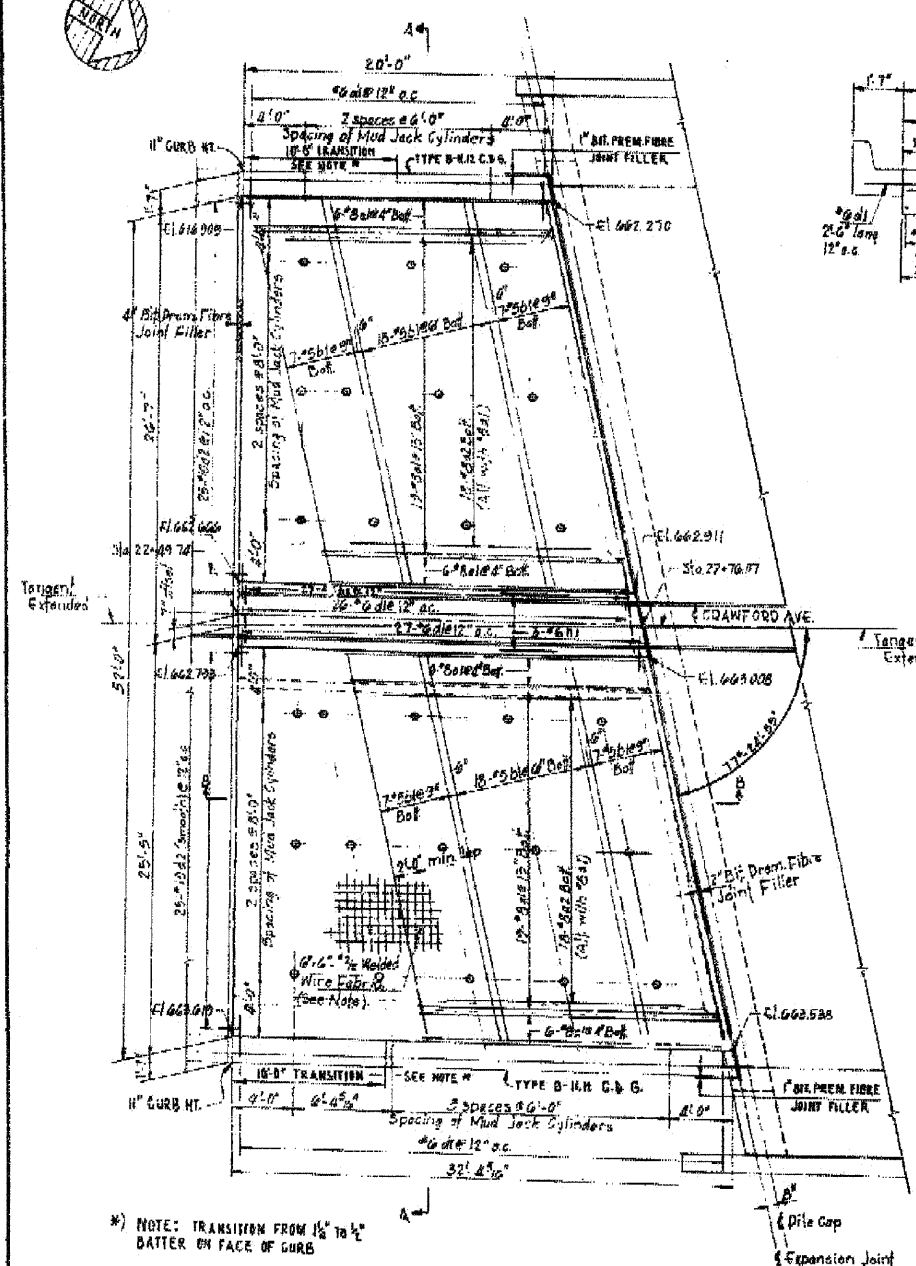
RICHARD B. GRIFFIN
PRESIDENT BOARD OF COMMISSIONERS

ANDREW V. FLUMMER
SUPERINTENDENT OF HIGHWAYS

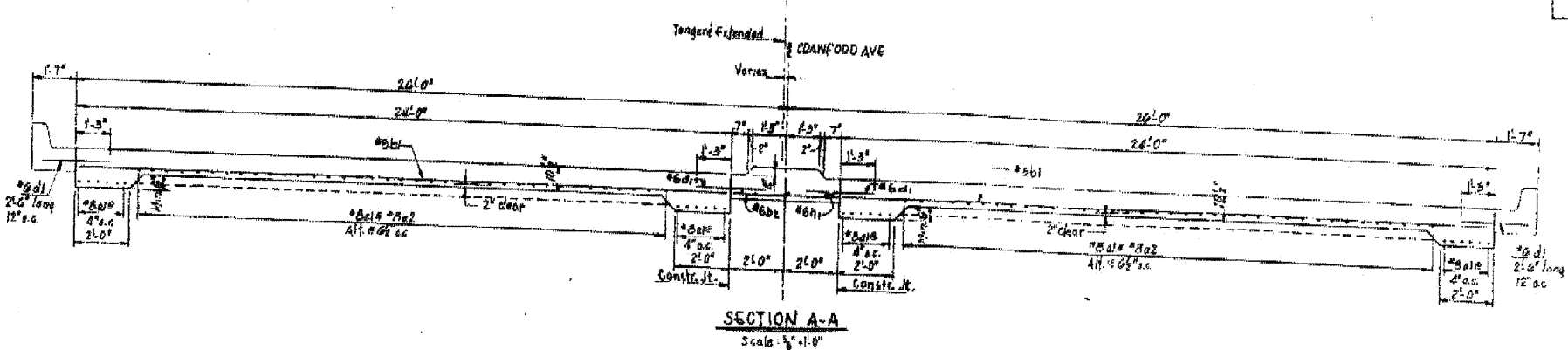
DETAILS OF VAULT SUPERSTRUCTURE
CRAWFORD AVE GRADE SEPARATION
OVER

DAN RYAN EXPRESSWAY - WEST LEG

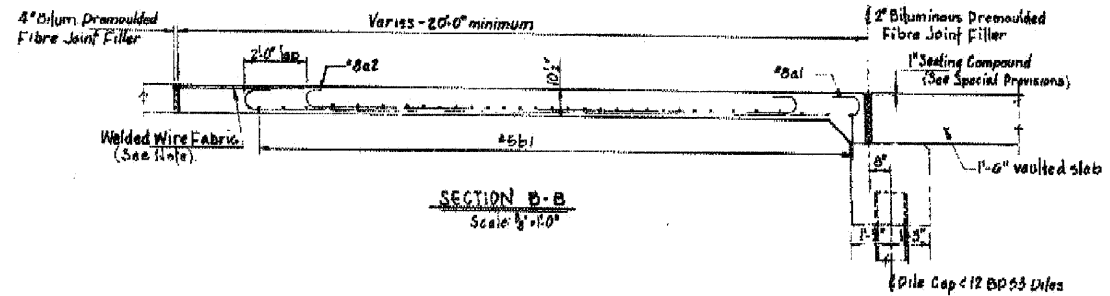
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CHECKED BY	DATE	SUMMIT 12-17-77
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APPROVED BY	DATE	
57	068-112.1	5 69 S.R. 1243-1



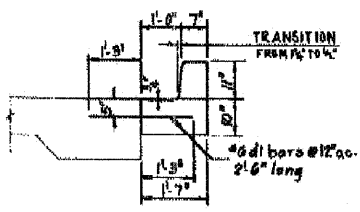
PLAN OF SOUTH APPROACH SLAB
Scale: 1/4" = 1'-0"



SECTION A-A
Scale: 1/8" = 1'-0"



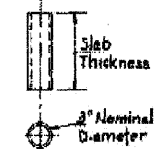
SECTION B-B
Scale: 1/8" = 1'-0"



DETAIL OF CURB & GUTTER
Scale: 1/4" = 1'-0"

WELDED WIRE FABRIC NOTE
Expanded Metal weighing not less than 70 lbs. per 100 sq. ft. or a Welded Bar Mat weighing not less than 70 lbs. per 100 sq. ft. having members of equal size in both directions and spaced not over 8" apart, may be used instead of the #2 Welded Wire Fabric, 6"x6", provided the Expanded Metal or Bar Mat is furnished at no additional cost to the County.

NOTE:
Adjacent to the Approach Slab, C.F.A. dowels shall be #6 deformed bars @ 12" o.c. No extra compensation shall be allowed for these bars nor for any transition C.F.A. but they shall be included in the Unit Price Bid for Combination Concrete Curb & Buffer, Type B-R12.



DETAIL OF MUD JACK CYLINDER

Cylinders shall be standard weight black steel pipe. Cylinders shall be filled with clay and clay shall be tamped.

BILL OF MATERIAL

Mark No.	Size	Length	Sketch	A	B	C	D	E	F
21	62	A	21-4	0-10	19-6	10-7	0-7		
22	36	A	17-4	0-10	15-8	10-10	0-7		
23	64	5	24-3						
24	27	6	3-9					(Median)	
25	53	6	2-6					(Median Only)	
26	3	6	26-9					(Median)	
P.C. Concrete Pavt. (16'x10'x18')									7,255.0
Reinforcement Bars									92.0
Comb. Conc. Curb, Type B-R12									104.9
Protective Coat									

NOTES:
The Approach Slab shall be paid for at the Contract Unit Price for P.C. Concrete Pavement (16'-10'x18'). The quantities for the Concrete Pile Cap and Piles are included in the Bill of Material on Sheet No. 11. The cost of Median Strip shall be paid for at the Contract Unit Price Bid for P.C. Concrete Pavement (16'-10'x18'). All reinforcement bars, except the #6 Curb & Buffer Dowels, shall be included in the Contract Unit Price for Reinforcement Bars. The #6 Curb & Buffer Dowels shall be included in the Contract Unit Price for Combination Concrete Curb & Buffer, Type B-R12. The Welded Wire Fabric, Mud Jack Cylinders and Premoulded Fibre Joint Filler shall be included in the Contract Unit Price for P.C. Concrete Pavement (16'-10'x18'). The Bituminous Premoulded Fibre Joint Filler shall conform to Section 129 of the Standard Specifications.

REVISIONS

DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

RICHARD B. DILLON
SENIOR VICE PRESIDENT

ANDREW V. FLANNERY
VICE PRESIDENT

**SOUTH APPROACH SLAB
CRAWFORD AVE. GRADE SEPARATION
OVER
DAN RYAN EXPRESSWAY - WEST LEG**

COMPUTED: J.E. ROE
CHECKED: J.E. ROE
DRAWN: J.E. ROE
CHECKED: J.E. ROE

PROJECT: I-57-7 (164) J&B
SUBMITTED: 2/12/03
APPROVED: [Signature]

ISSUED: 2/12/03

Revised No.	County Highway Number	Sheet No.	Total Sheets	Sheet No.
57	068-112.1	17	69	54, 115-5



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PLOT DATE = 8/5/2011

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CHECKED - BHS
DRAWN - TWO
CHECKED - GSP

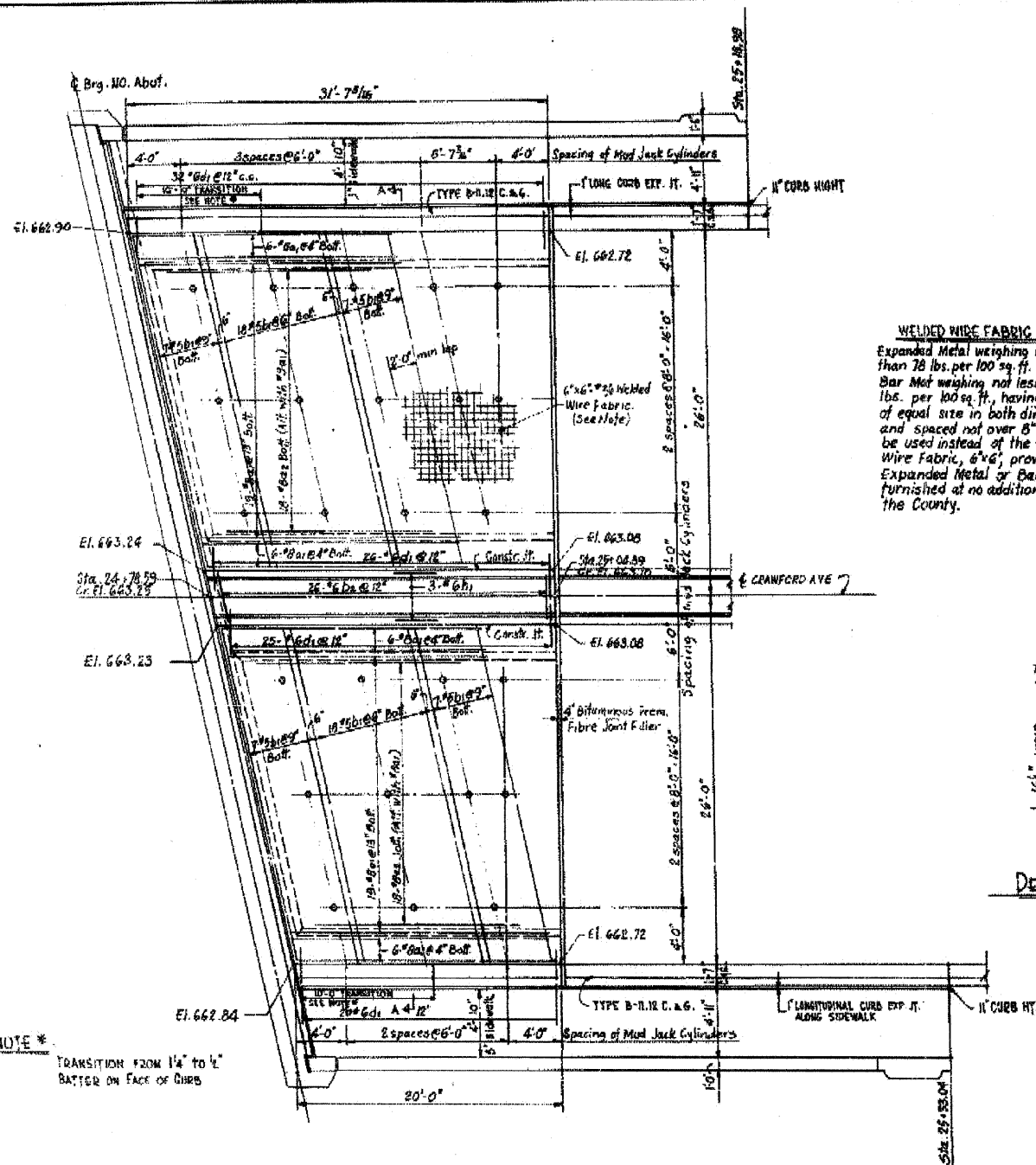
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REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (5 OF 6)
STRUCTURE NO. 016-1015
SHEET NO. S35 OF 36 SHEETS

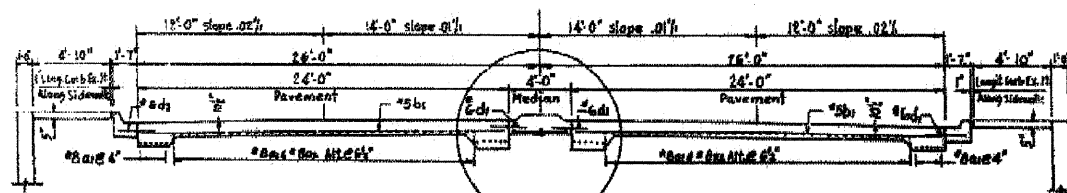
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	62

CONTRACT NO. 60863
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



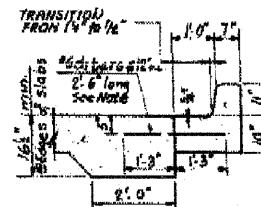
NOTE *
TRANSITION FROM 1 1/2" TO 1/2"
BATTER ON FACE OF CURB

PLAN OF NORTH APPROACH SLAB
Scale: 3/4" = 1'-0"

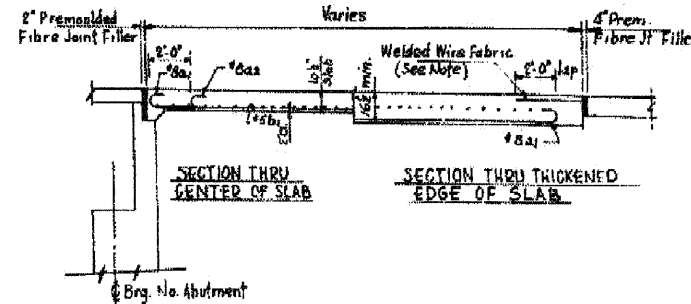


SECTION A-A
Scale: 3/4" = 1'-0"

WELDED WIRE FABRIC NOTE
Expanded Metal weighing not less than 78 lbs. per 100 sq. ft. or a Welded Bar Mat weighing not less than 78 lbs. per 100 sq. ft., having members of equal size in both directions and spaced not over 8" apart may be used instead of the #2 Welded Wire Fabric, #2's; provided the Expanded Metal or Bar Mat is furnished at no additional cost to the County.

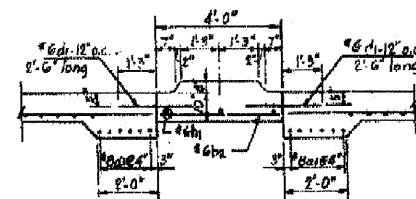


DETAIL OF CURB & GUTTER

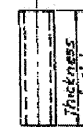


LONGITUDINAL SECTION
Scale: 1/4" = 1'-0"

NOTE:
Adjacent to the Approach Slab C&G dowels shall be #6 deformed bars @ 12" o.c. No extra compensation shall be allowed for these bars, nor for any transition C&G but they shall be included in the Unit Price Bid for Combination Concrete Curb and Gutter, Type B II.12.



DETAIL A'
Scale: 3/4" = 1'-0"



DETAIL OF MUD JACK CYLINDER

Cylinders shall be standard weight black steel pipe. Cylinders shall be filled with clay and clay shall be tamped.

* 8 a₁ + 8 a₂

BILL OF MATERIAL										
Start	No	Size	Length	Sketch	A	B	C	D	E	J
a ₁	62	8	21'-4"		10	19	8	10	7	
a ₂	36	8	17'-4"		10	19	8	10	7	
b ₁	64	5	24'-3"							
b ₂	26	6	3'-9"						(MEDIAN)	
d ₁	103	6	2'-6"							
d ₂	3	6	25'-3"						(MEDIAN)	
REINFORCEMENT BARS										7,270.0 LBS
P.C. CONCRETE PAV. (16'-10 1/2" x 6")										113.0 YD
CONC. C&G TYPE B-II.12										95.0 YD
PROTECTIVE COAT										165.0 SQ. YD
LONGITUDINAL CURB EXP. JT.										48.0 SQ. YD

* 52 #6 d₁ bars not included in weight of reinforcement.

NOTES:
The Approach Slab shall be paid for at the Contract Unit price for P.C. Concrete Pavement (16'-10 1/2" x 6").
The cost of Median Strip shall be paid for at the Contract Unit price for P.C. concrete Pavement (16'-10 1/2" x 6").
All reinforcement bars, except the #6 curb & gutter dowels shall be included in the Contract Unit Price for Reinforcement Bars.
The #6 curb & gutter dowels shall be included in the Contract Unit Price for Combination Concrete Curb & Gutter Type B-II.12.
The Welded Wire Fabric, Mud Jack Cylinders and Premoulded Fibre Joint Filler shall be included in the Contract Unit Price for P.C. concrete Pavement (16'-10 1/2" x 6").
The Premoulded Fibre Joint Filler shall conform to Section 129 of the Standard Specifications.

REVISIONS		
DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS COOK COUNTY, ILLINOIS		ANDREW V. PULJANICH SUPERVISOR OF HIGHWAYS	
NORTH APPROACH SLAB CRAWFORD AVE. GRADE SEPARATION OVER DAN RYAN EXPRESSWAY - WEST LEG			
COMPUTED BY M. PILAT	PROJECT 1-52-1112.1	SCALE AS SHOWN	
DRAWN BY M. PILAT	CHECKED BY J. P. HARRIS	APPROVED BY [Signature]	
DATE May 10 1967	DATE May 10 1967	DATE May 10 1967	
57	068-1112.1	18	65



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CHECKED - BHS
DRAWN - TWO
CHECKED - GSP
PLOT SCALE = N/A
PLOT DATE = 6/5/2011

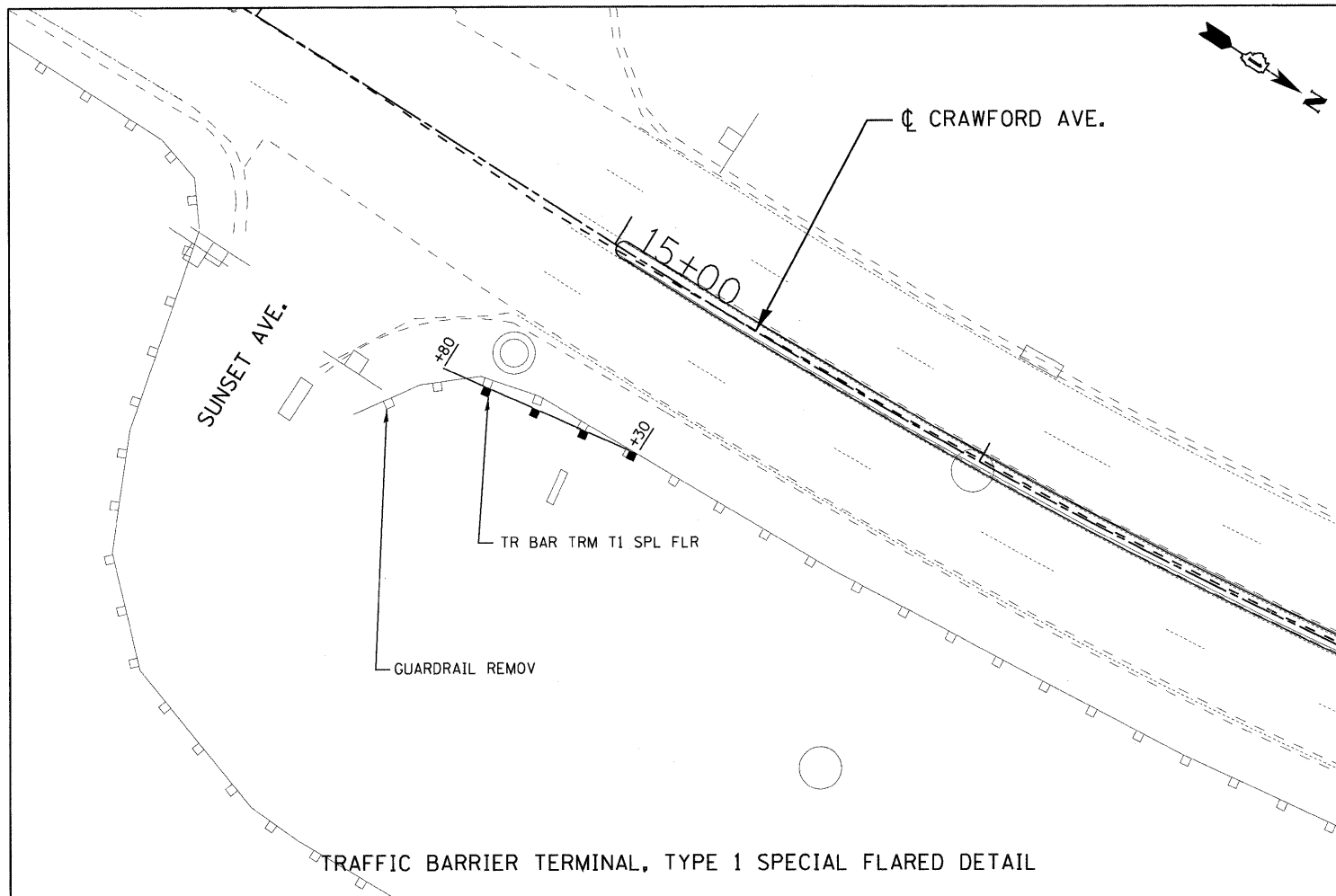
REVISOR -
REVISOR -
REVISOR -
REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

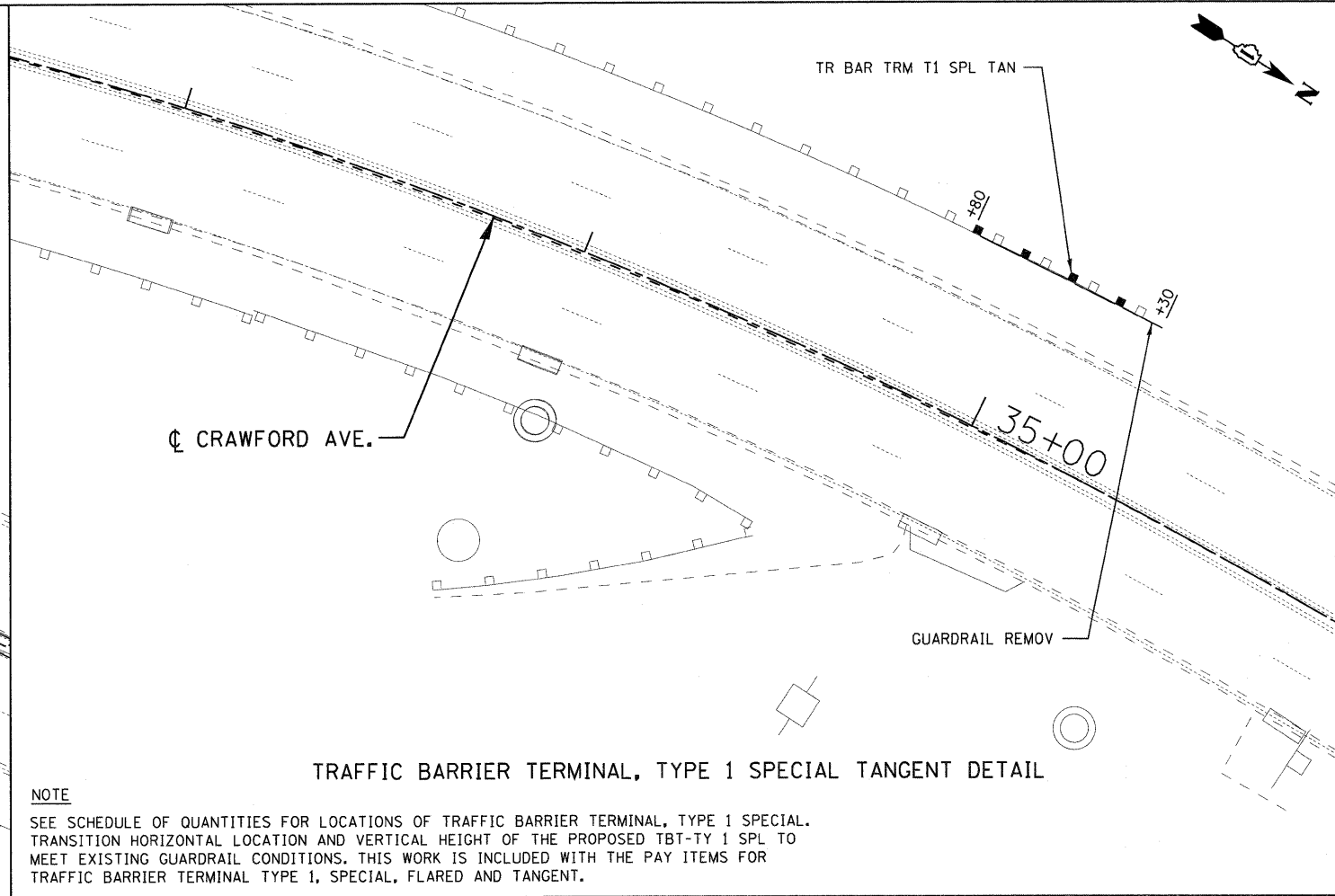
EXISTING BRIDGE PLANS (6 OF 6)
STRUCTURE NO. 016-1015

SHEET NO. 536 OF 36 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	63
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



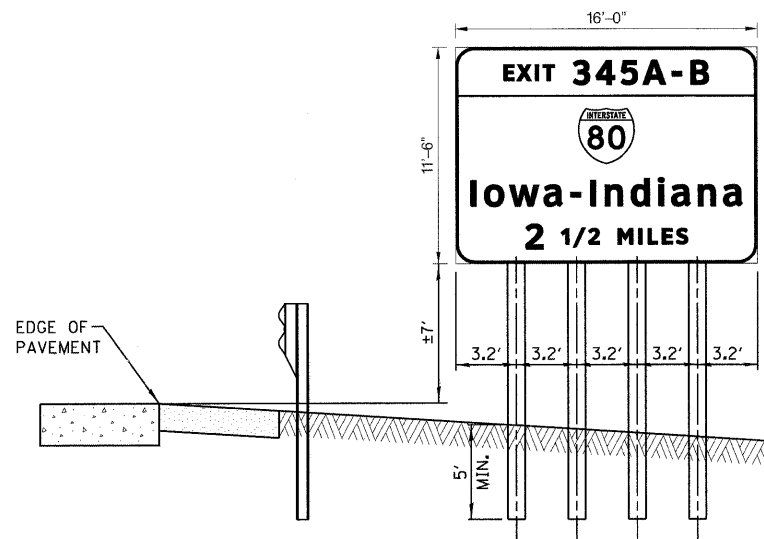
TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL FLARED DETAIL



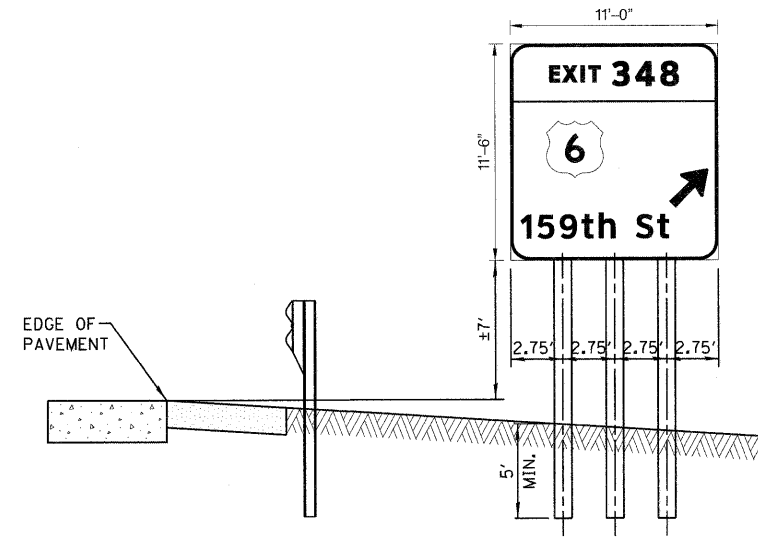
TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL TANGENT DETAIL

NOTE

SEE SCHEDULE OF QUANTITIES FOR LOCATIONS OF TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL. TRANSITION HORIZONTAL LOCATION AND VERTICAL HEIGHT OF THE PROPOSED TBT-TY 1 SPL TO MEET EXISTING GUARDRAIL CONDITIONS. THIS WORK IS INCLUDED WITH THE PAY ITEMS FOR TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL, FLARED AND TANGENT.



TEMPORARY SIGN PANEL ASSEMBLY DETAIL
APPROXIMATE I-57 STATION 151+00
(LOOKING NORTH)



TEMPORARY SIGN PANEL ASSEMBLY DETAIL
APPROXIMATE I-57 STATION 149+00
(LOOKING SOUTH)

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PLOT DATE = 7/6/2011

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DRAWN - ENTRAN
CHECKED - TMH
DATE - 06/15/11

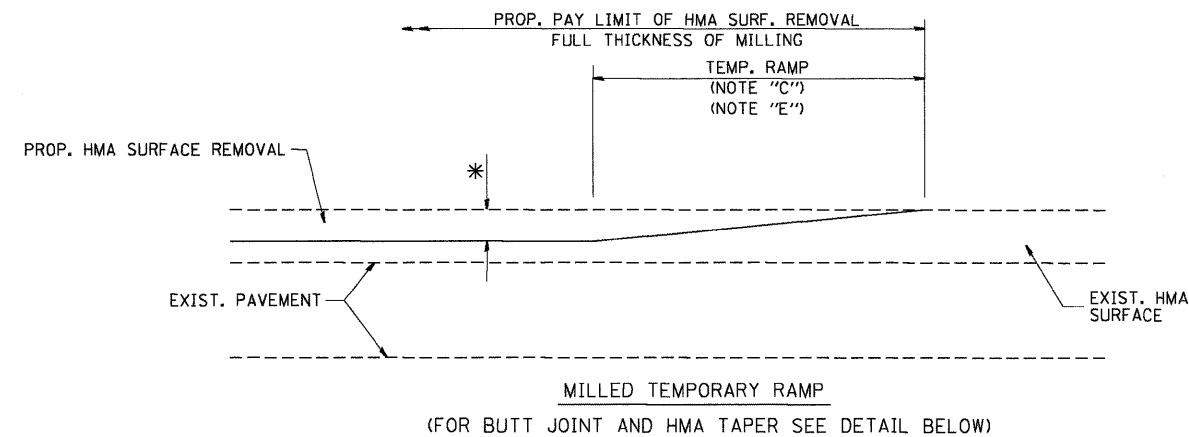
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

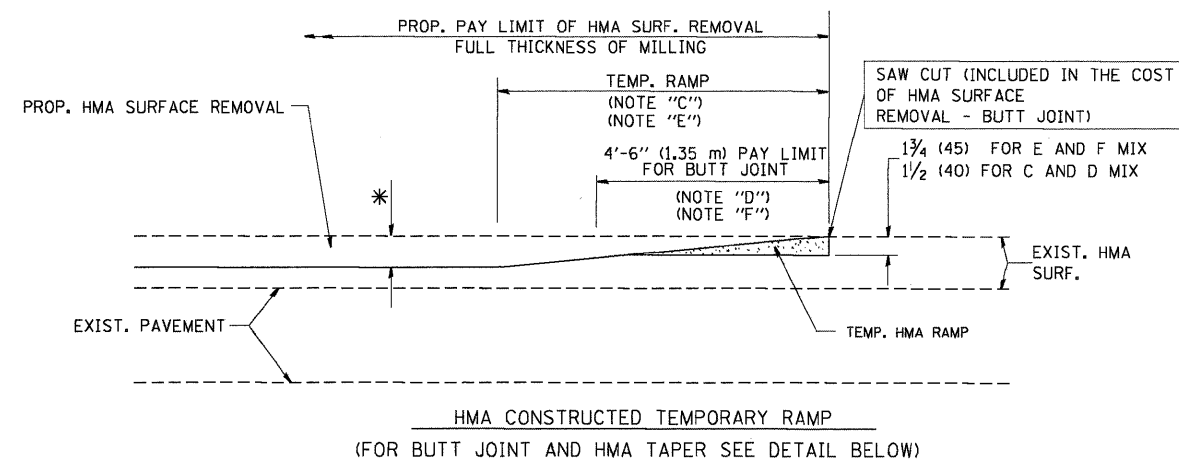
FAI ROUTE 57 (INTERSTATE 57) AT FAU ROUTE 3778 (CRAWFORD AVENUE)
ROADWAY DETAILS

SCALE: 20.00' / IN. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.JB	COOK	75	64
CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

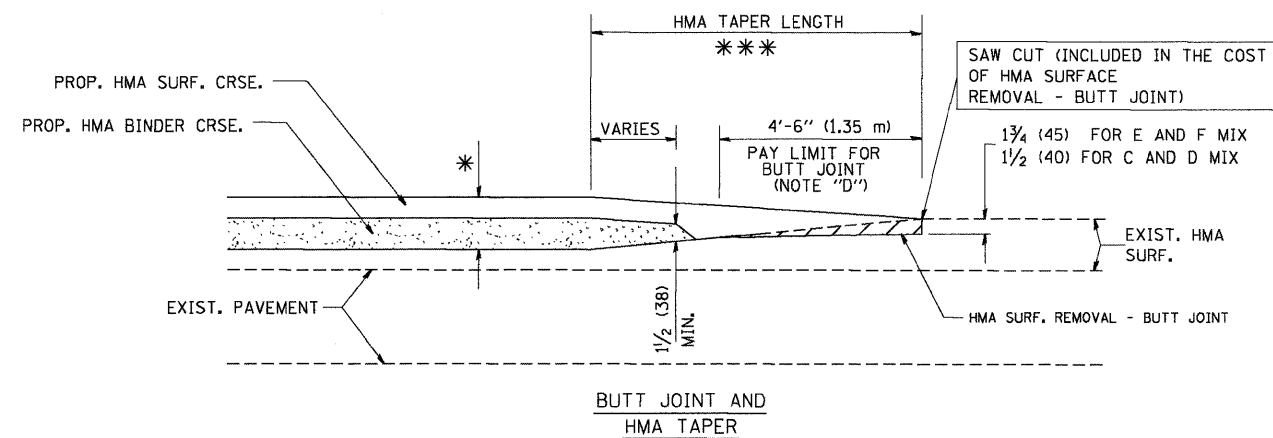


OPTION 1

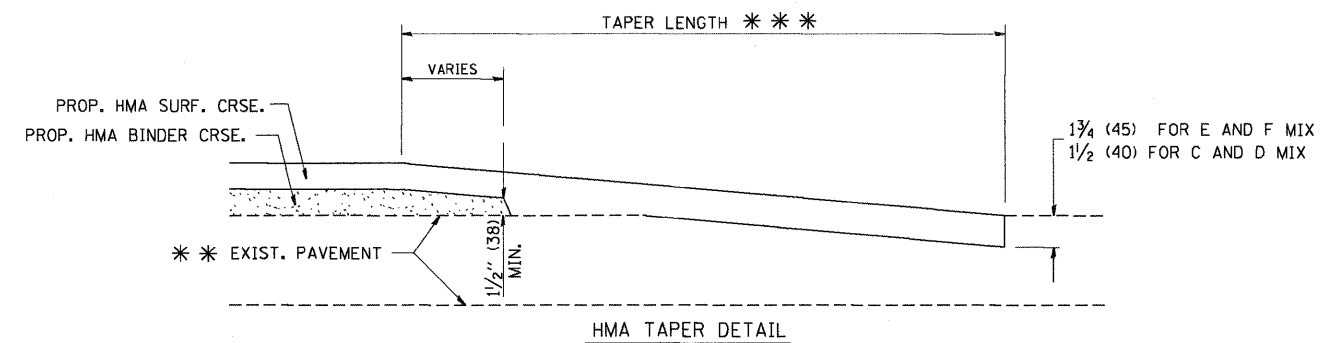
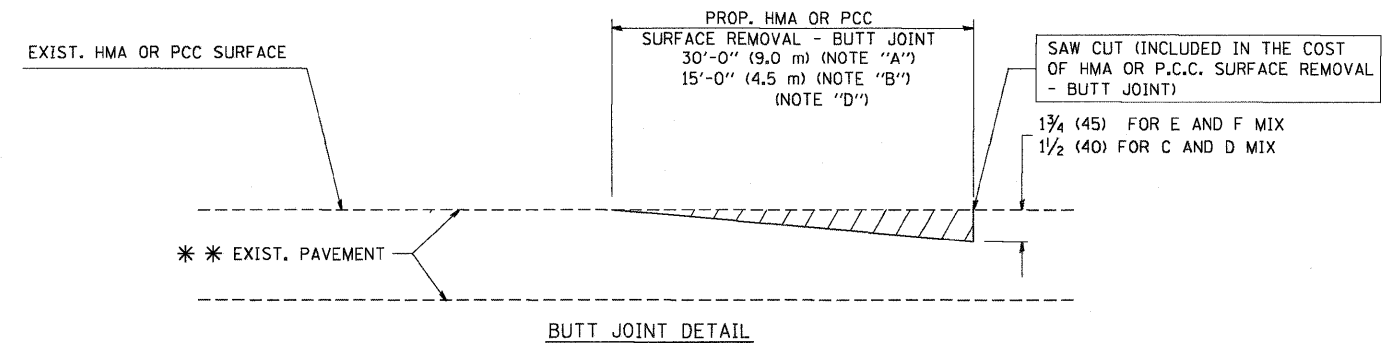


OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =
W:\diststd\22x34\bd32.dgn

USER NAME = gaglianobt
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PLOT DATE = 1/4/2008

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 06-13-90

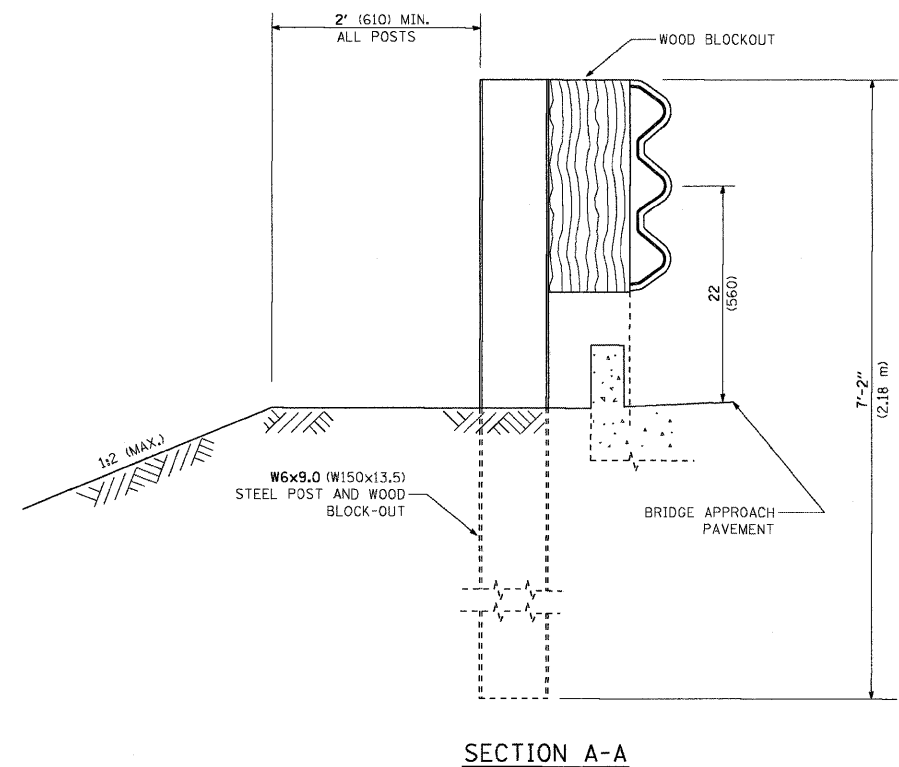
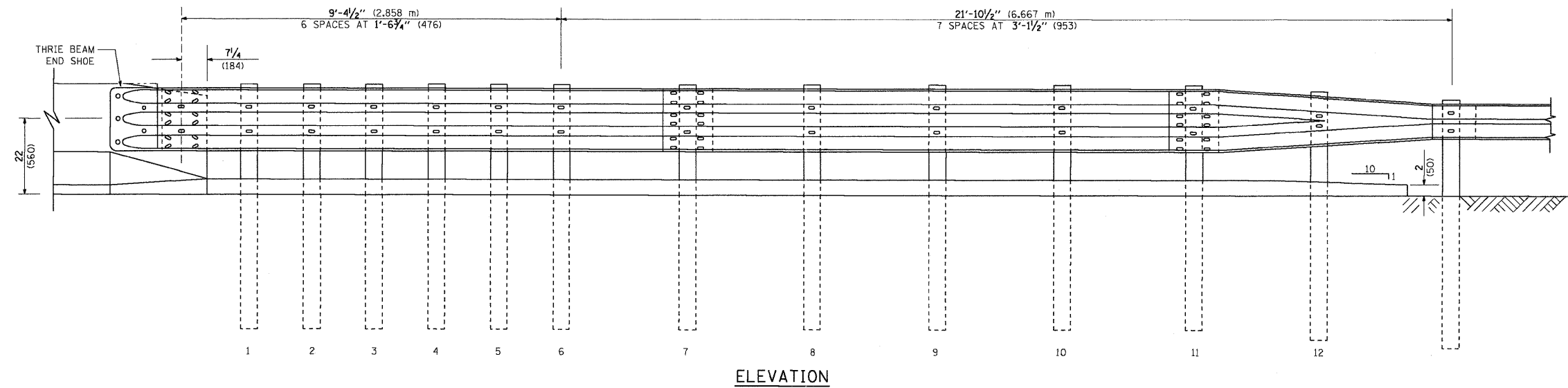
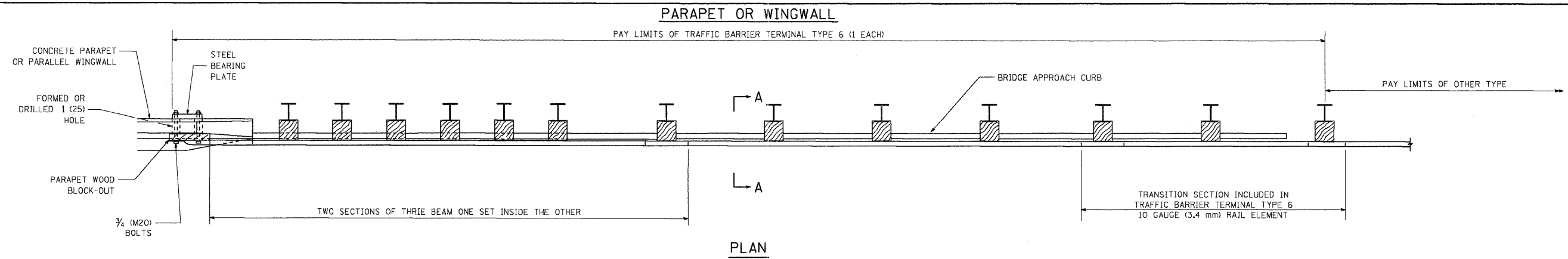
REVISED - R. SHAH 10-25-94
REVISED - A. ABBAS 03-21-97
REVISED - M. GOMEZ 04-06-01
REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	65
BD400-05 BD32 CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



GENERAL NOTES

TO BE USED WHEN CONNECTING TO EXISTING GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.

SEE STANDARD 630001 FOR DETAILS OF GUARDRAIL NOT SHOWN.

THRIE BEAM RAIL SHALL BE BOLTED TO BLOCK-OUT AT ALL POSTS.

SEE STANDARD 420401 FOR DETAILS OF BRIDGE APPROACH PAVEMENT.

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	631031-05 - 02/19/2008					57	1112.1B	COOK	75	66
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	PLOT DATE = 2/21/2008	DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

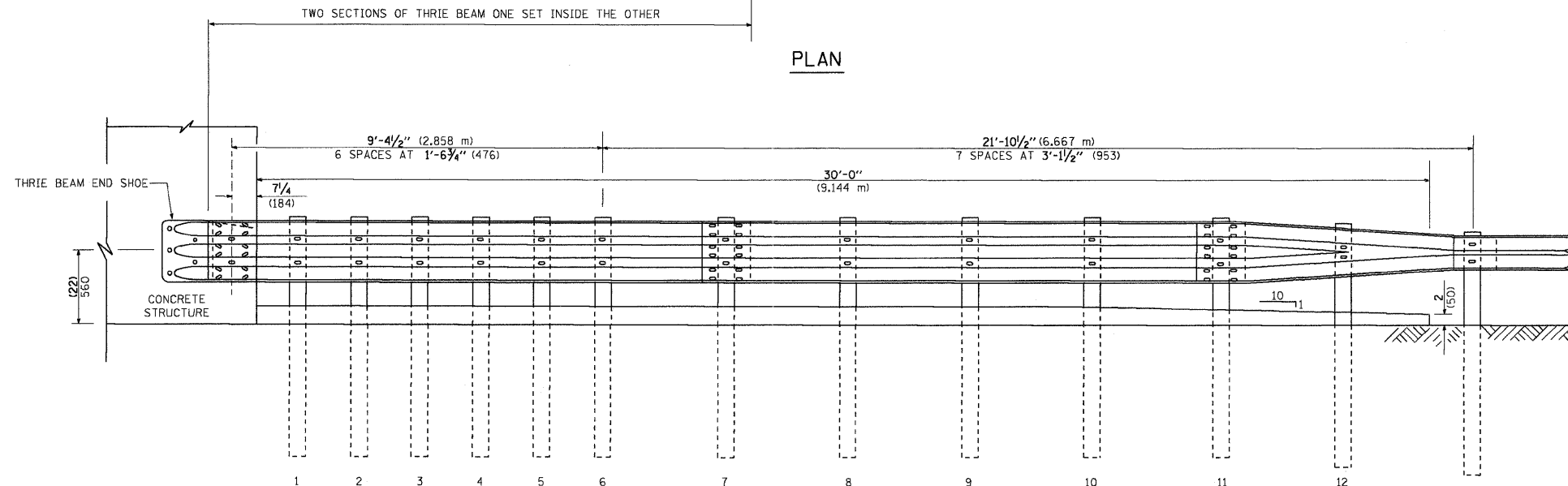
5 EPOXY GROUTED $\frac{3}{4}$ " (M20)
ANCHOR BOLTS WITH STANDARD
WASHERS. AFTER TIGHTENING, CUT
THE ANCHOR BOLTS FLUSH WITH
NUTS, AND DAMAGE THE NUT
TO PREVENT IT FROM
LOOSENING.

OTHER CONCRETE STRUCTURE

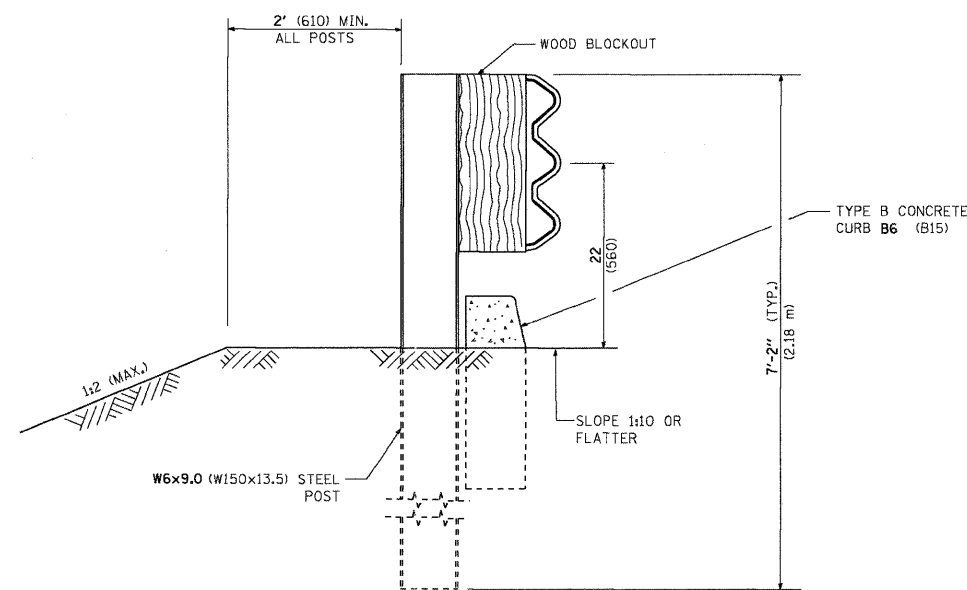
PAY LIMITS OF TRAFFIC BARRIER TERMINAL TYPE 6 (1 EACH)

PAY LIMITS OF OTHER TYPE

PLAN

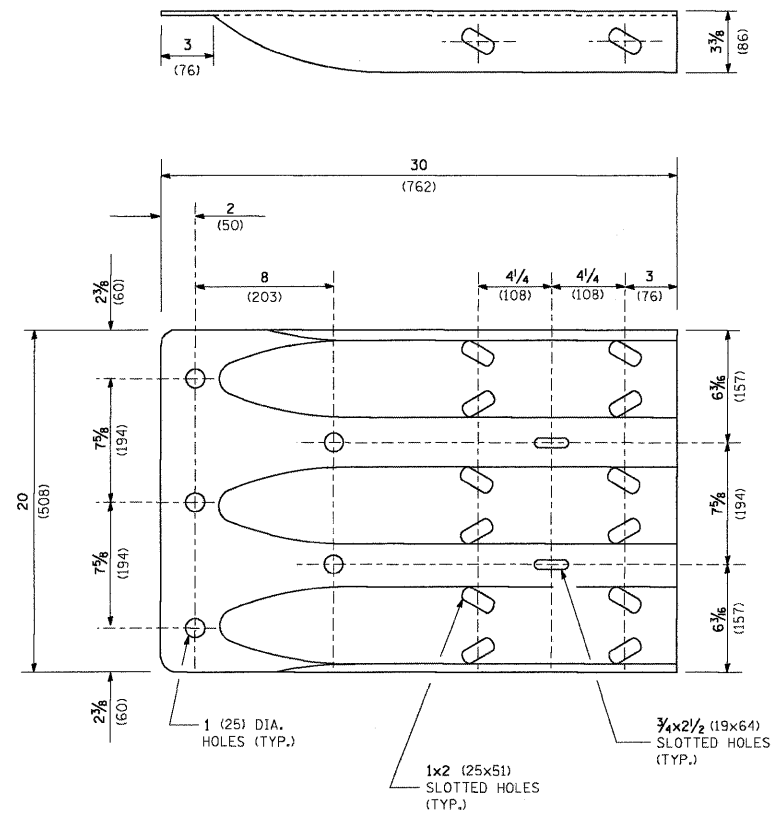


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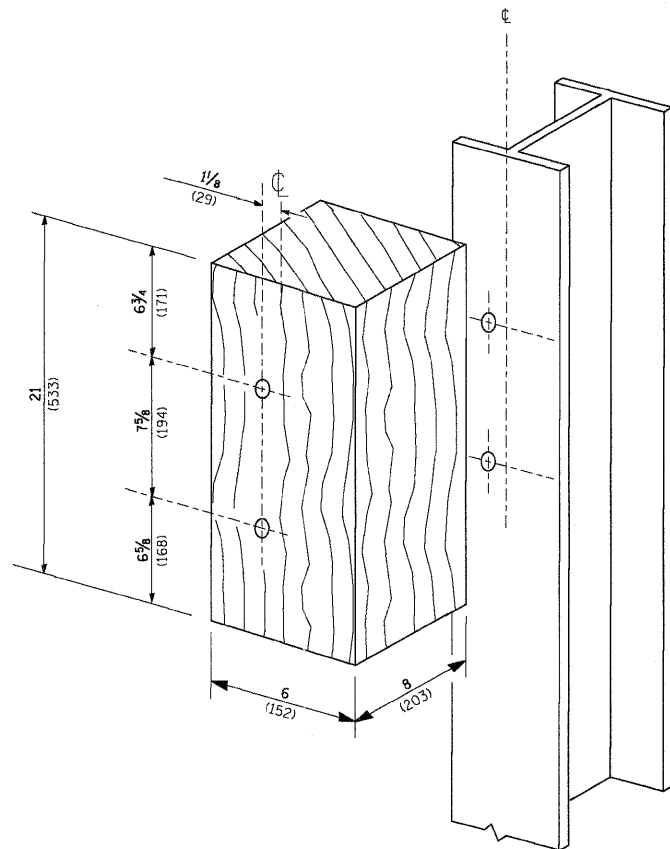


SECTION B-B

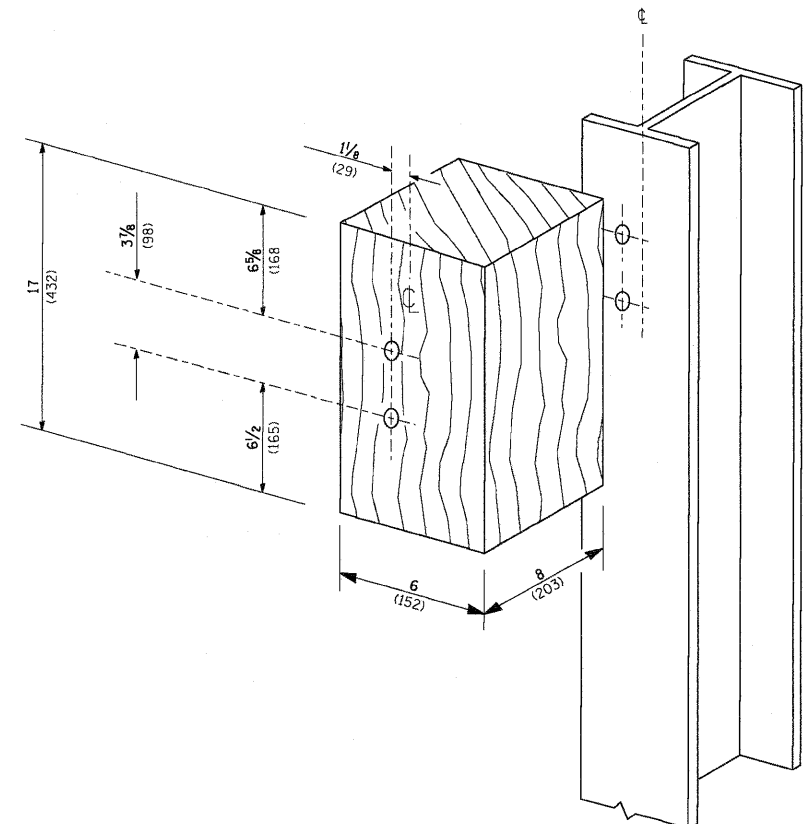
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c:\Projects\diststd2007\bm22.dgn		DRAWN -	631031-05 - 02/19/2008			57	1112.1B	COOK	75	67
	PLOT SCALE = 50,0000' / 1".	CHECKED -	REVISED -			BM 22		CONTRACT NO. 60863		
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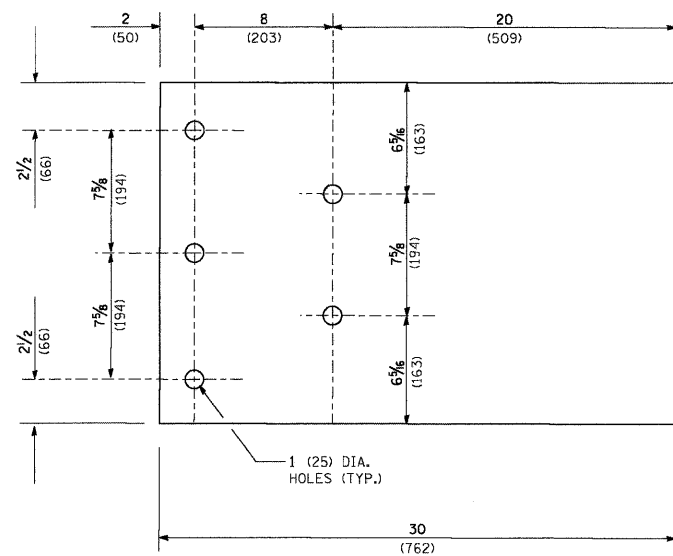
THRIE BEAM END SHOE DETAIL



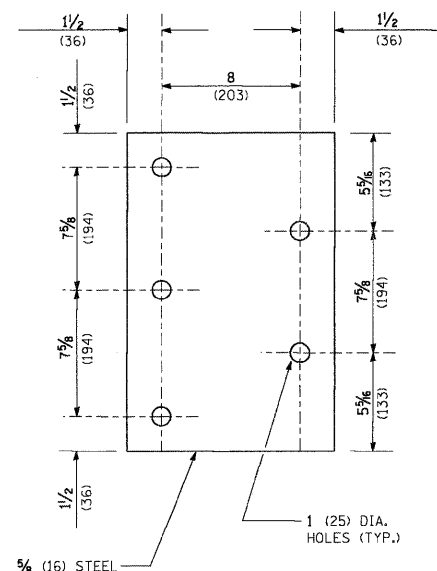
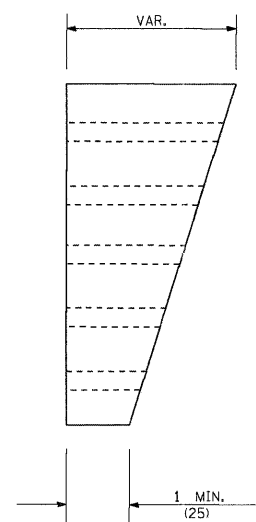
POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



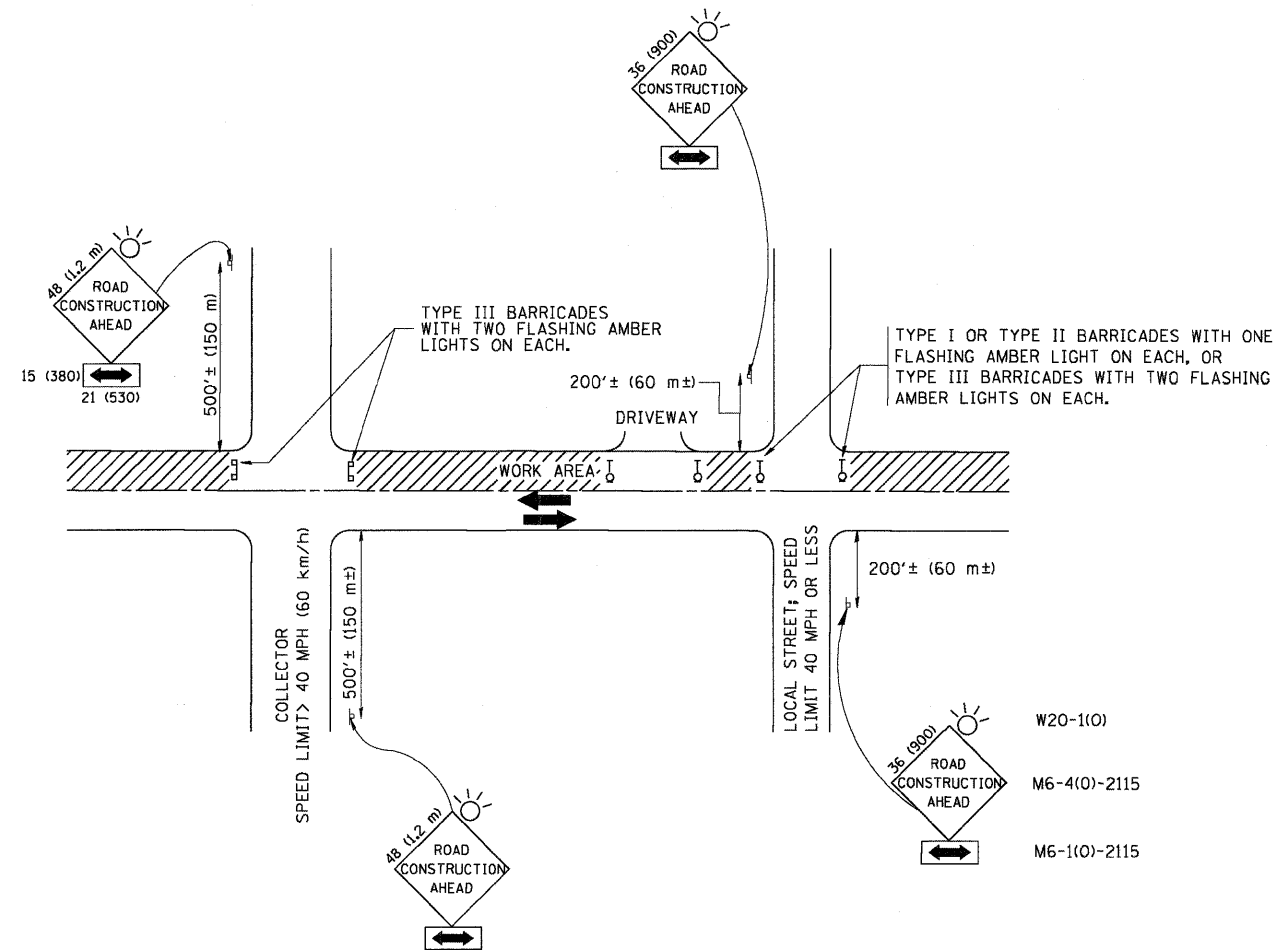
PARAPET WOOD BLOCK-OUT DETAIL



PARAPET STEEL BEARING PLATE DETAIL

(5 EACH INDIVIDUAL 5x5x5/16 (125x125x16) STEEL PLATES WITH CENTERED 1 (25) HOLES MAY BE SUBSTITUTED FOR THE PLATE SHOWN.)

FILE NAME = c:\Projects\diststd2007\bm22.dgn	USER NAME = bauerl	DESIGNED -	REVISED - STATE STANDARD:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPE 6 TERMINAL FOR USE WITH 21" HIGH SPBGR				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 50,000 ' / IN.	CHECKED -	REVISED -						BM 22				
	PLOT DATE = 2/21/2008	DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE		SHEET NO. 3 OF 3 SHEETS		STA. TO STA.		CONTRACT NO. 60863			



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

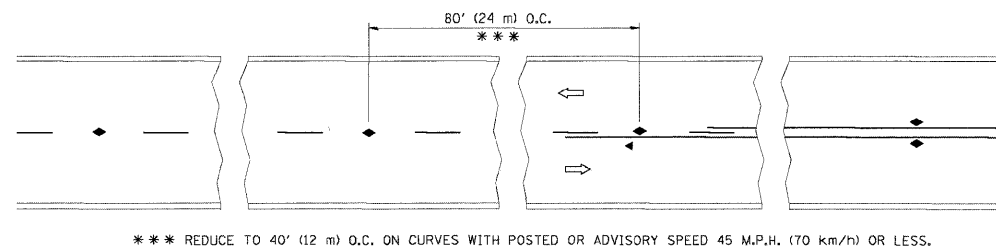
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

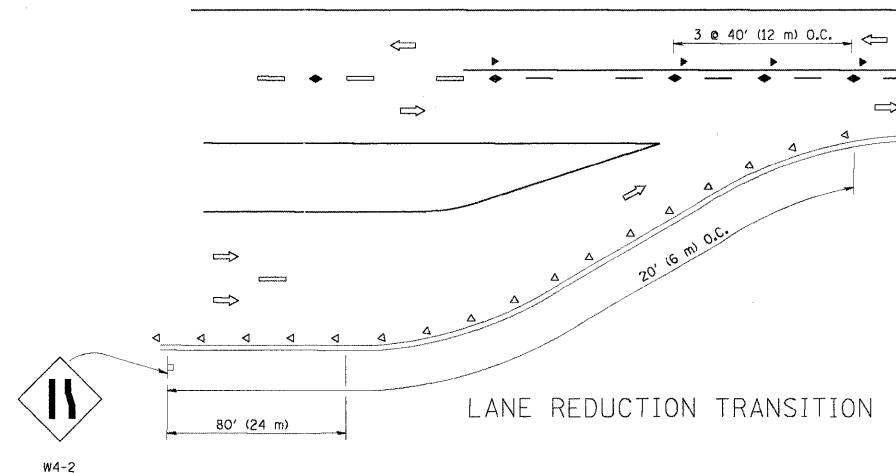
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

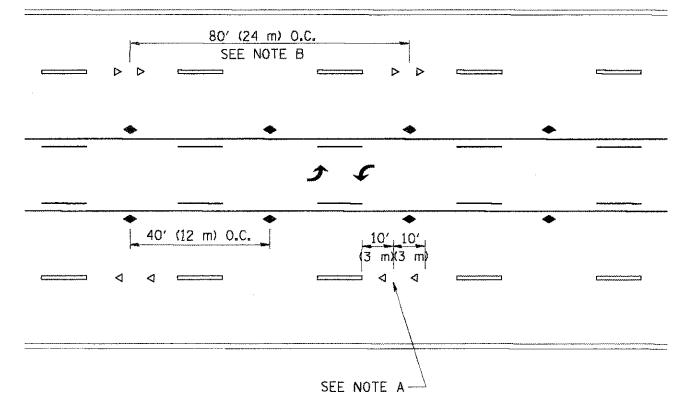
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TC-10		CONTRACT NO. 60863		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



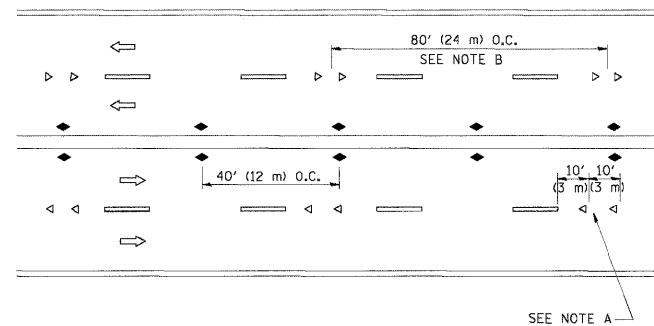
TWO-LANE/TWO-WAY



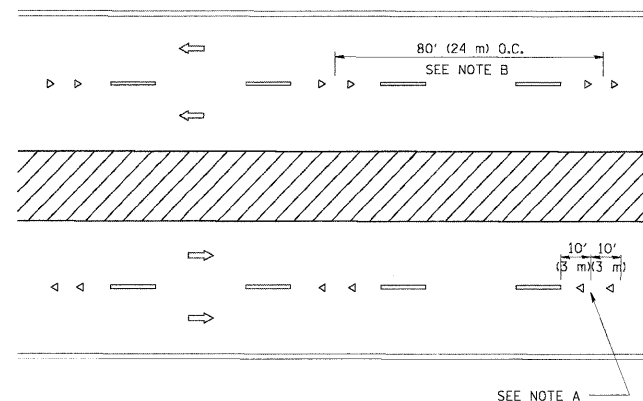
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

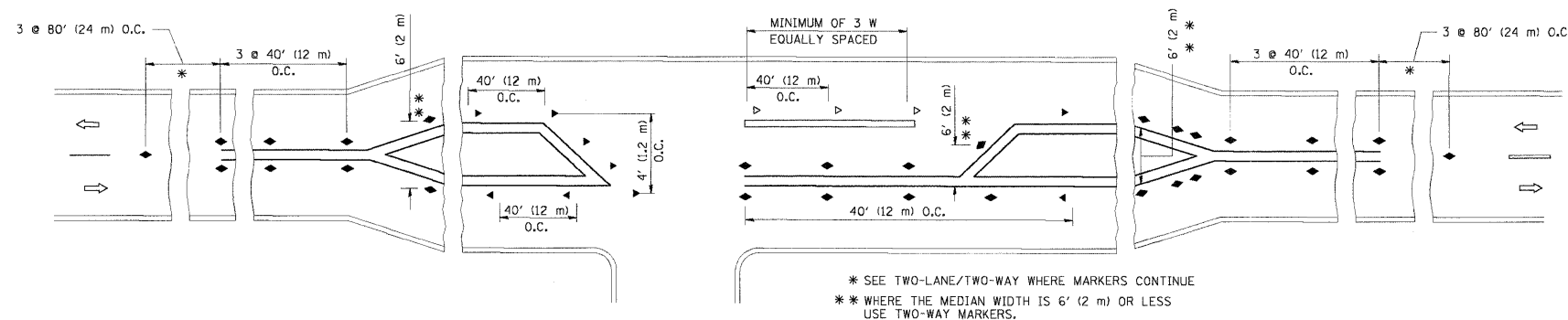
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

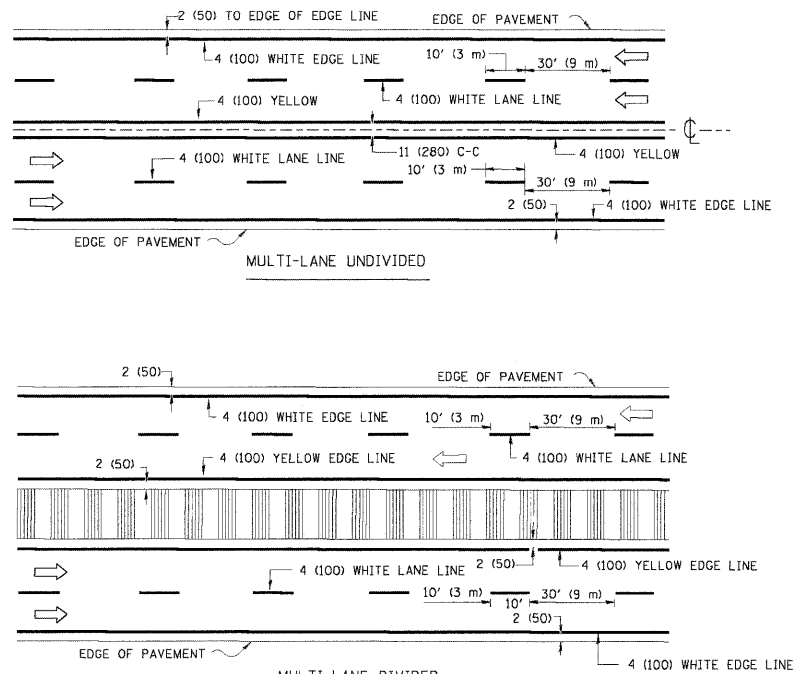
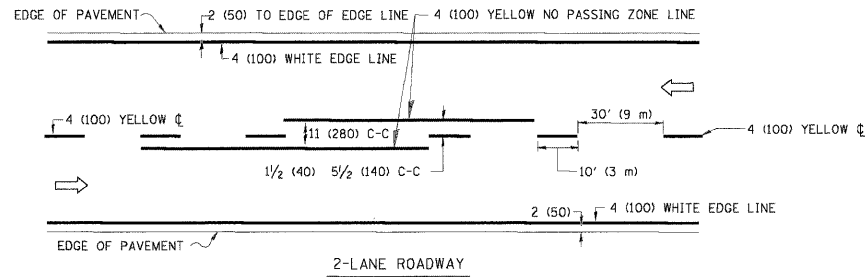
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	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

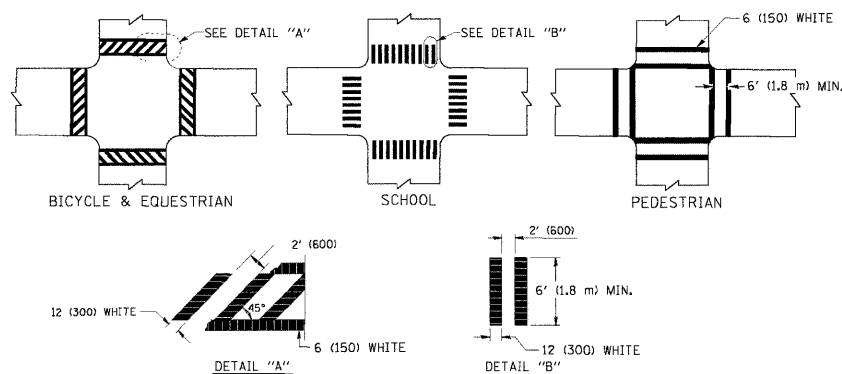
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11		CONTRACT NO. 60863		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

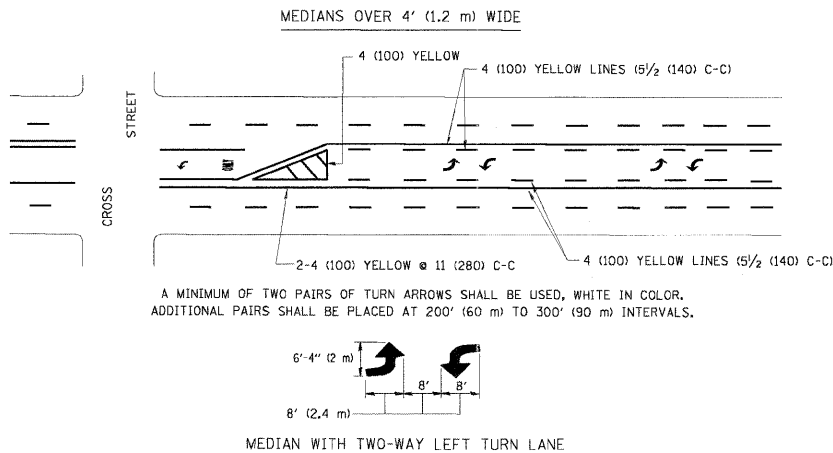
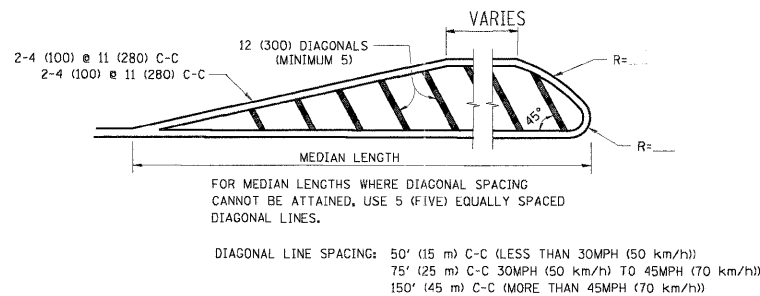
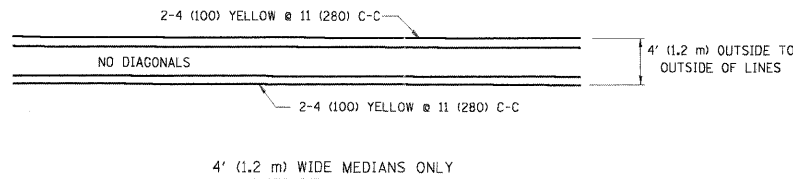


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

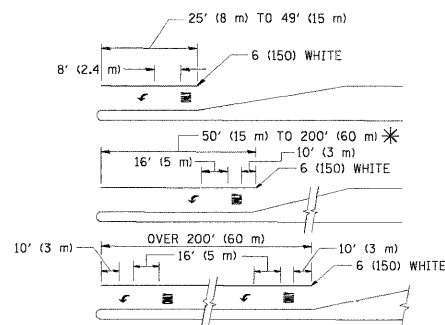
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



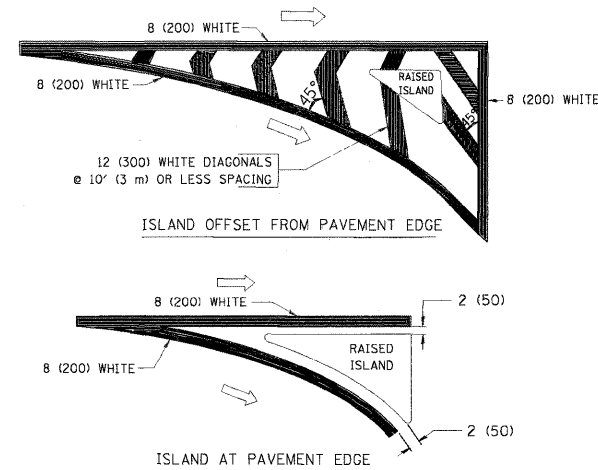
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4' (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4' (100)	SOLID	YELLOW	11' (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4' (100) 2 @ 4' (100)	SOLID SOLID	YELLOW YELLOW	5 1/2' (140) C-C FROM SKIP-DASH CENTERLINE 11' (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4' (100) 5' (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4' (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6' (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4' (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2' (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6' (150) 2' (600) @ 45° 12' (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24' (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4' (100) WITH 12' (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11' (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8' (200) WITH 12' (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24' (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16' (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD T80001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12' (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD T80001.

All dimensions are in inches (millimeters) unless otherwise shown.

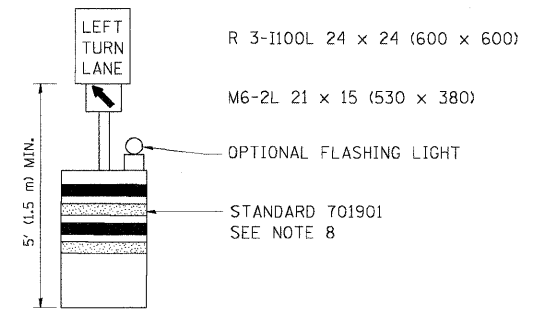
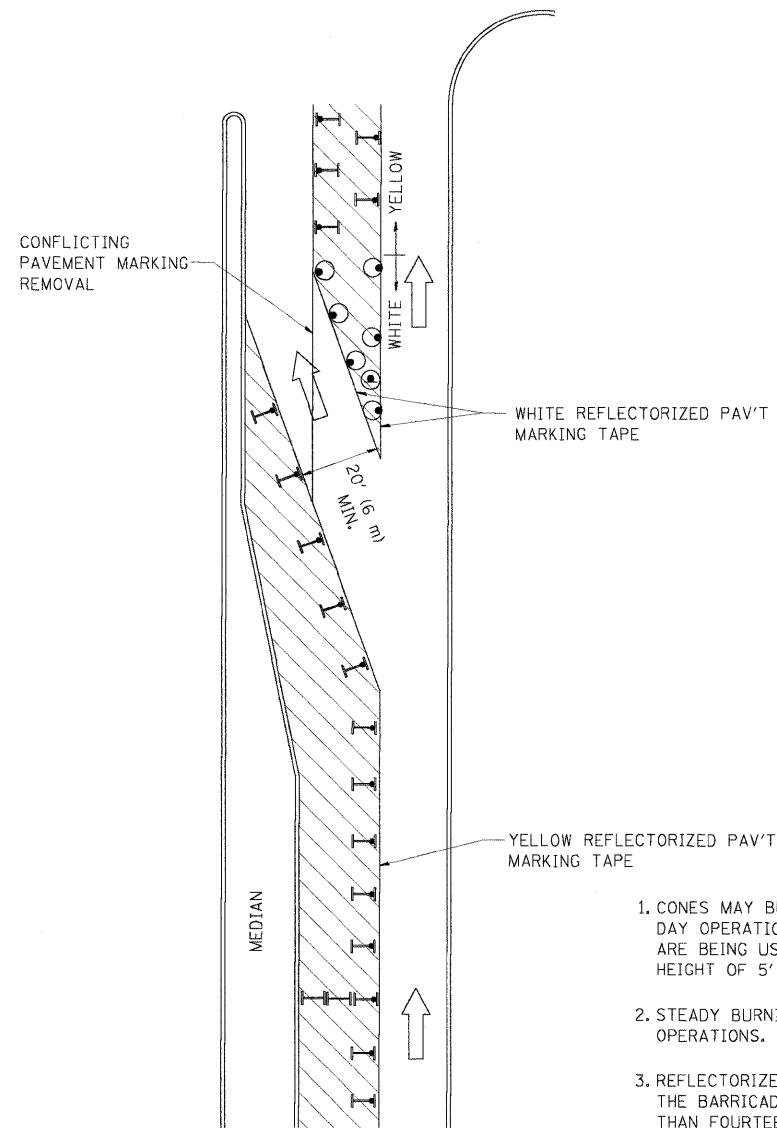
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PLOT SCALE = 50.000' / 1 IN.		CHECKED -	REVISED -
PLOT DATE = 9/9/2009		DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.1B	COOK	75	71
TC-13		CONTRACT NO. 60863		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

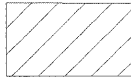


GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

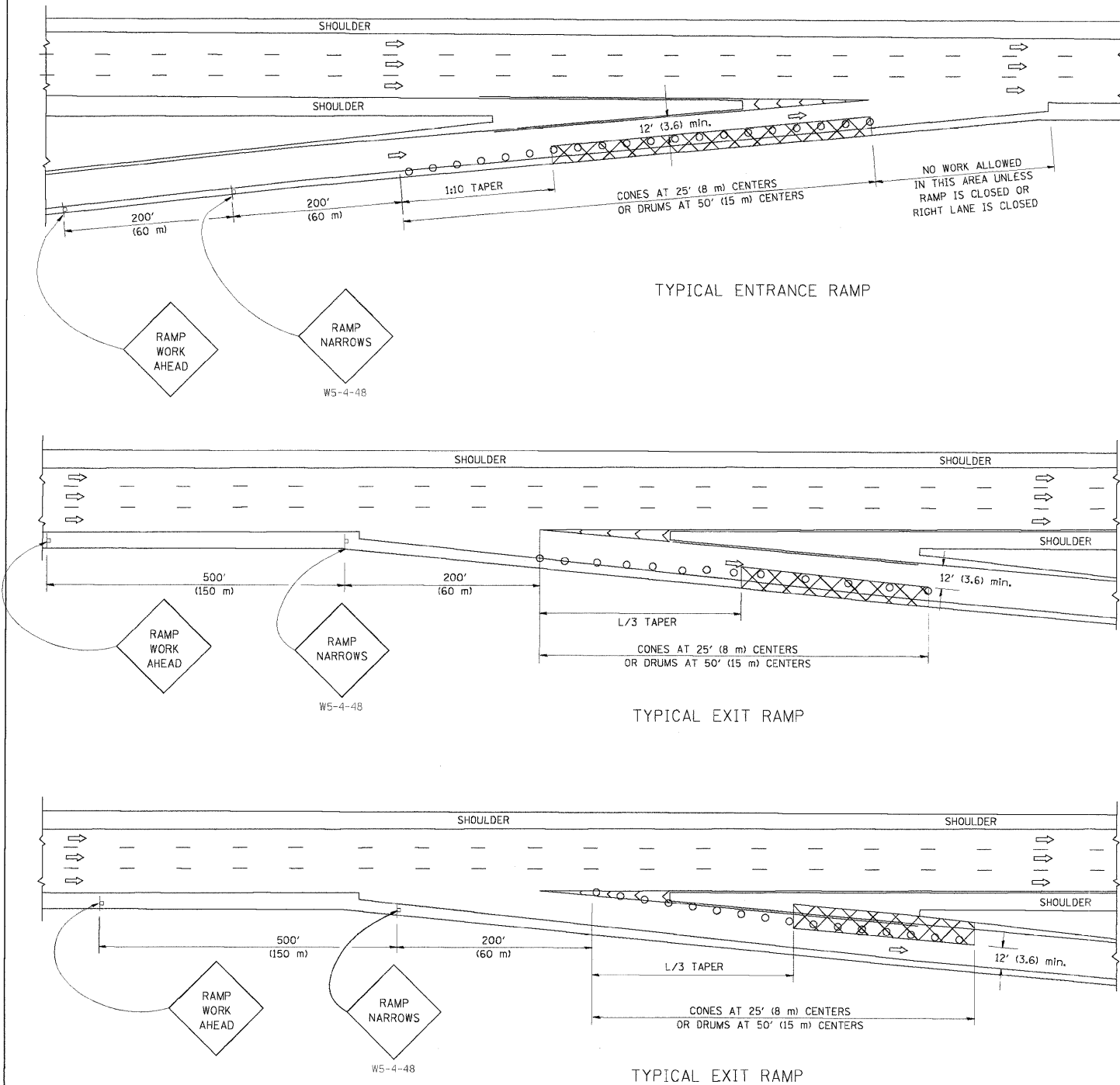
All dimensions are in inches (millimeters) unless otherwise shown.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME *	USER NAME * drivakoagn	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\PWIDOT\DRIVAKOAGN\08108315\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -		57	1112.1B	COOK	75	72			
PLOT SCALE * 49.9999 ' / IN.		REVISED A. HOUSEH 10-12-96	REVISED -		TC-14		CONTRACT NO. 60863					
PLOT DATE * 9/14/2009		REVISED -T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

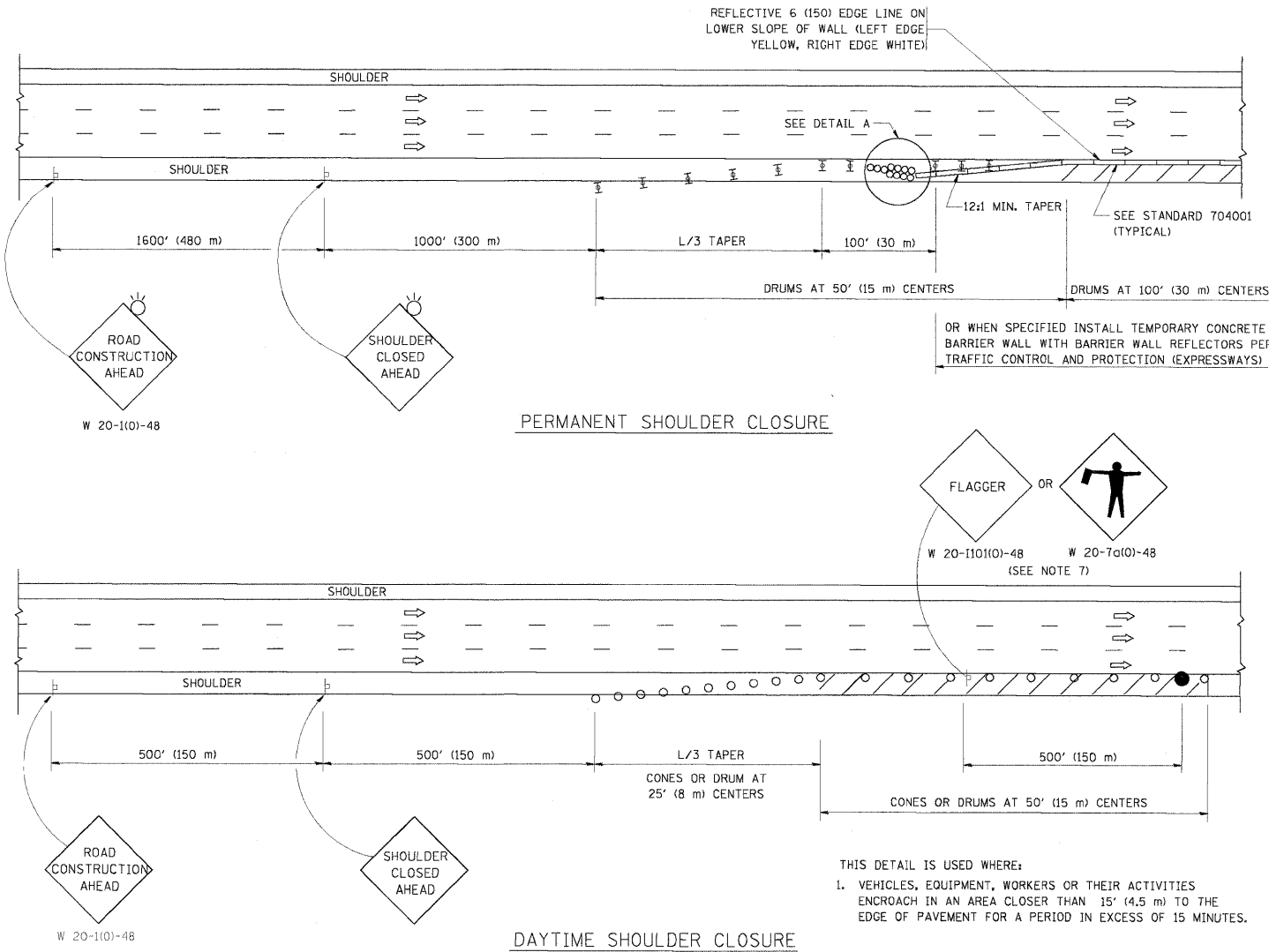


SYMBOLS

GENERAL NOTES

- THE "L" DISTANCE EQUALS:
SPEED LIMIT FORMULAS
45 mph (80 km/h) METRIC ENGLISH
OR GREATER: $L = 0.65(W)(S)$ $L = (W)(S)$
W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
- PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE

DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

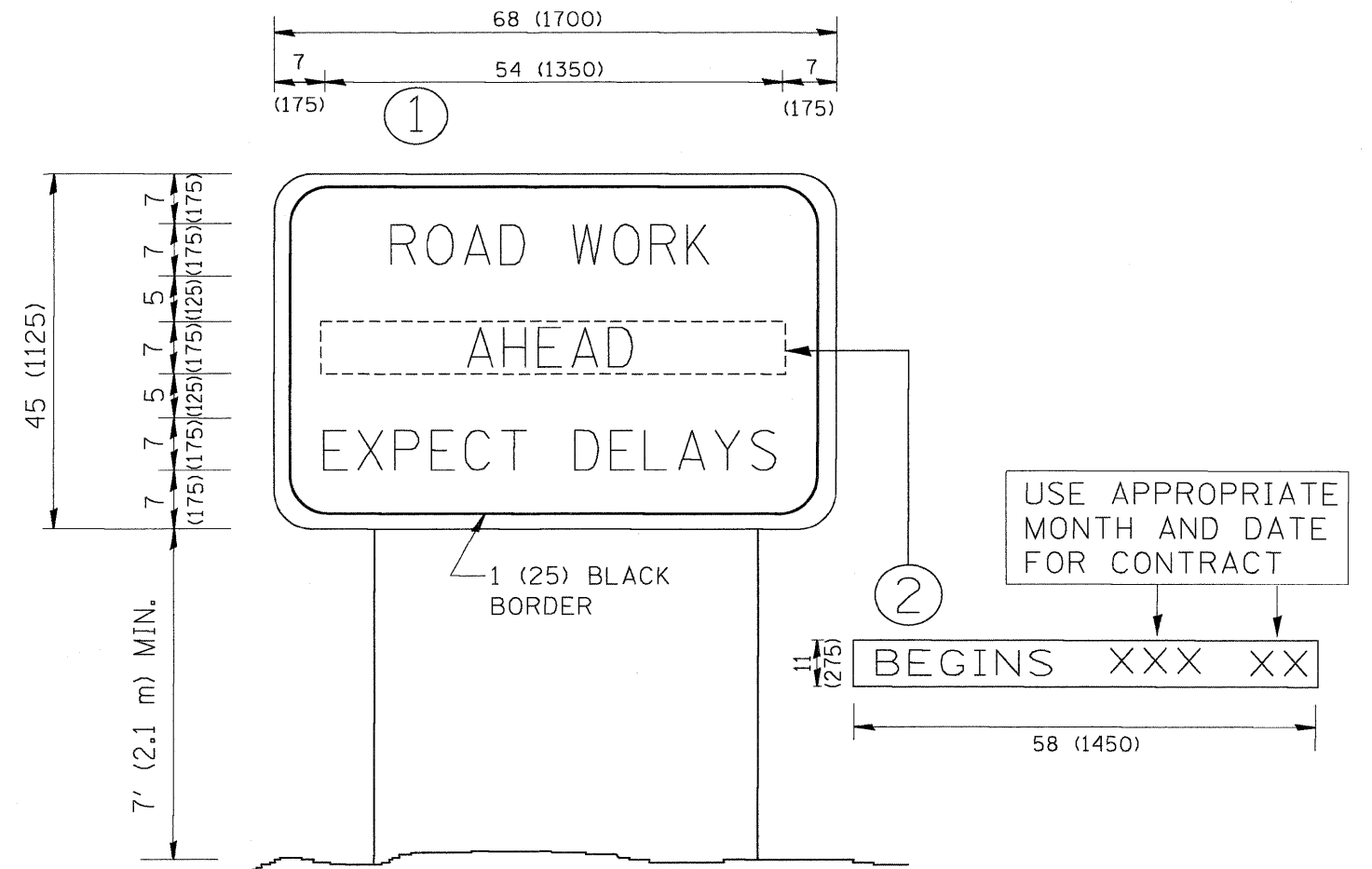
ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
b. THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\data\22x34\17.dgn	USER NAME = lujan	DESIGNED -	REVISED - 04-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A.P. RTE. 57					SECTION 1112.1B		COUNTY COOK	TOTAL SHEETS 75	SHEET NO. 73		
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06														
	PLOT SCALE = 50,000' / IN.	CHECKED	REVISED - S.P.B. 01-07														
	PLOT DATE = 1/26/2010	DATE - 11-96	REVISED - S.P.B. 12-09														
SCALE: NONE					SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.									
							FED. ROAD DIST. NO. 1 ILLINOIS									FED. AID PROJECT	



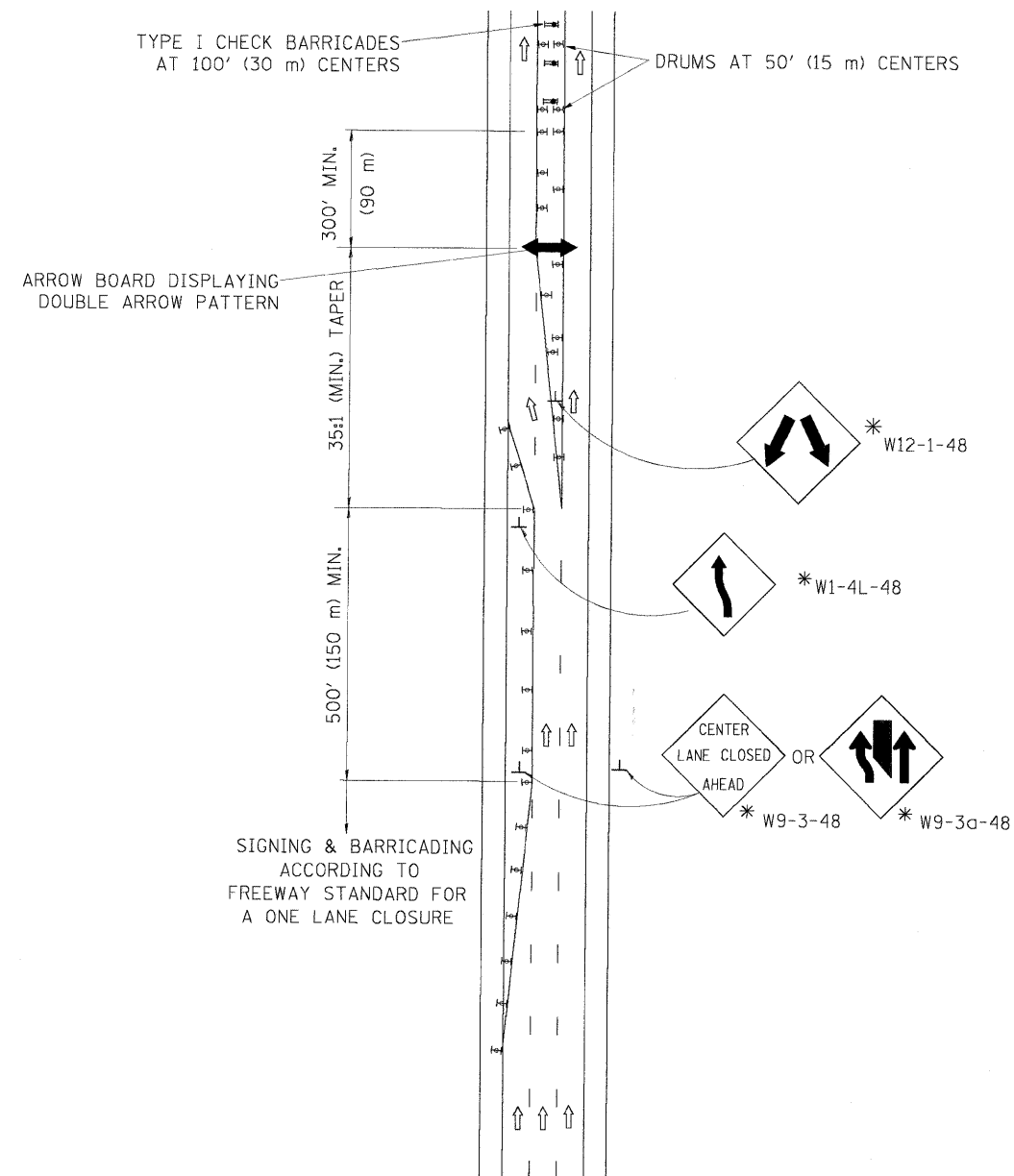
NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

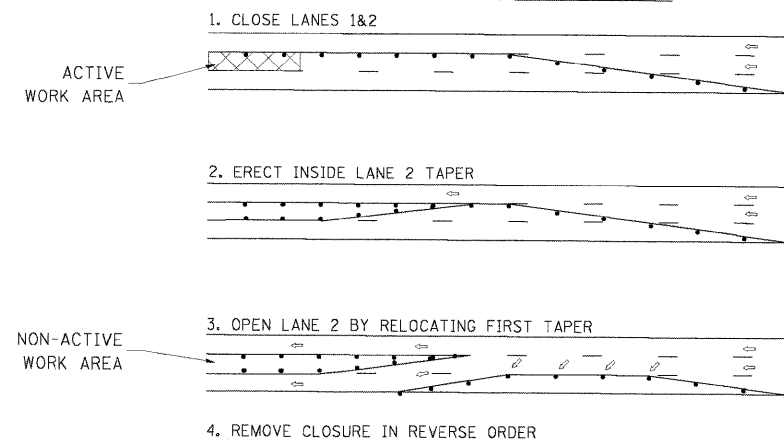
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
W:\diststd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97						57	1112.1B	COOK	75	74	
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99						TC-22				CONTRACT NO. 60863	
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
				SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.						

CENTER LANE CLOSURE



INSTALLATION SEQUENCE

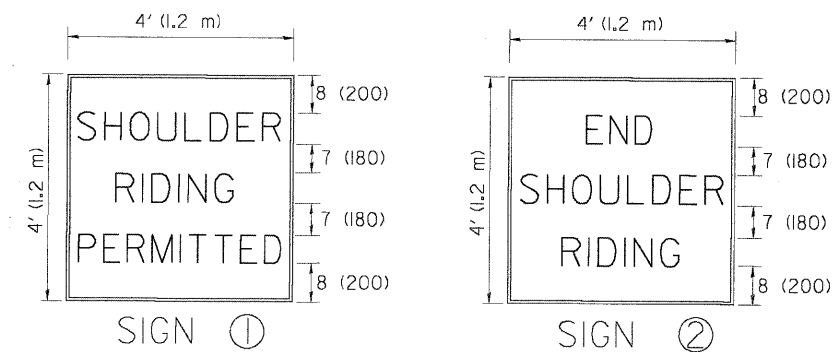
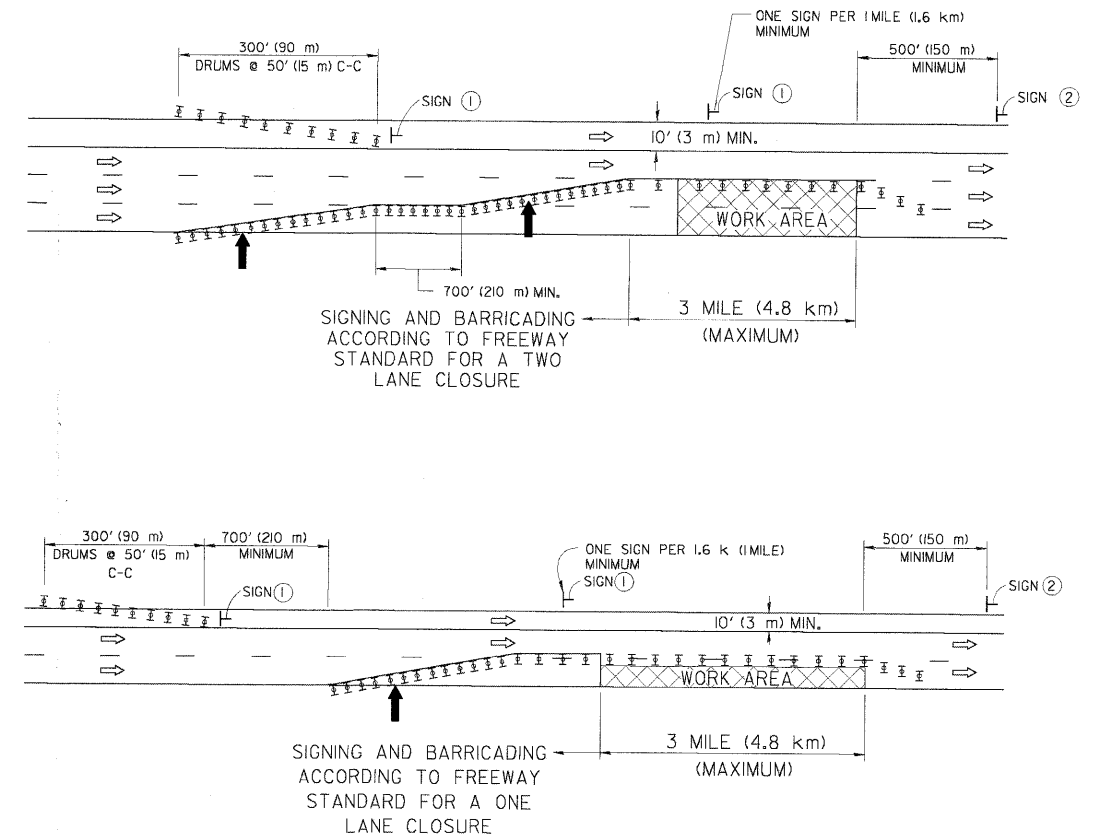


NOTES

1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (150) SERIES "C" LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
1(25) BORDER

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➡ ARROWBOARD
- ▤ ACTIVE WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT *
- ⊥ TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME =	USER NAME = jayso	DESIGNED -	REVISED - J.A.F. 04-03
W:\diststd\22x34\tc25.dgn		DRAWN -	REVISED - S.P.B. 01-07
		CHECKED -	REVISED - S.P.B. 12-09
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
CENTER LANE CLOSURE SHOULDER LANE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1112.18	COOK	75	75
TC-25 CONTRACT NO. 60863				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				