

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 776 (IL.RTE. 242)
SECTION (101B)B-1
PROJECT ACF-0776 (030)
BRIDGE REPLACEMENT
WAYNE COUNTY

C-97-011-07

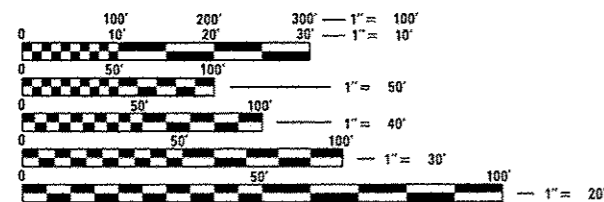
FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 1100 (2007)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	1
		ILLINOIS	CONTRACT NO. 74223	



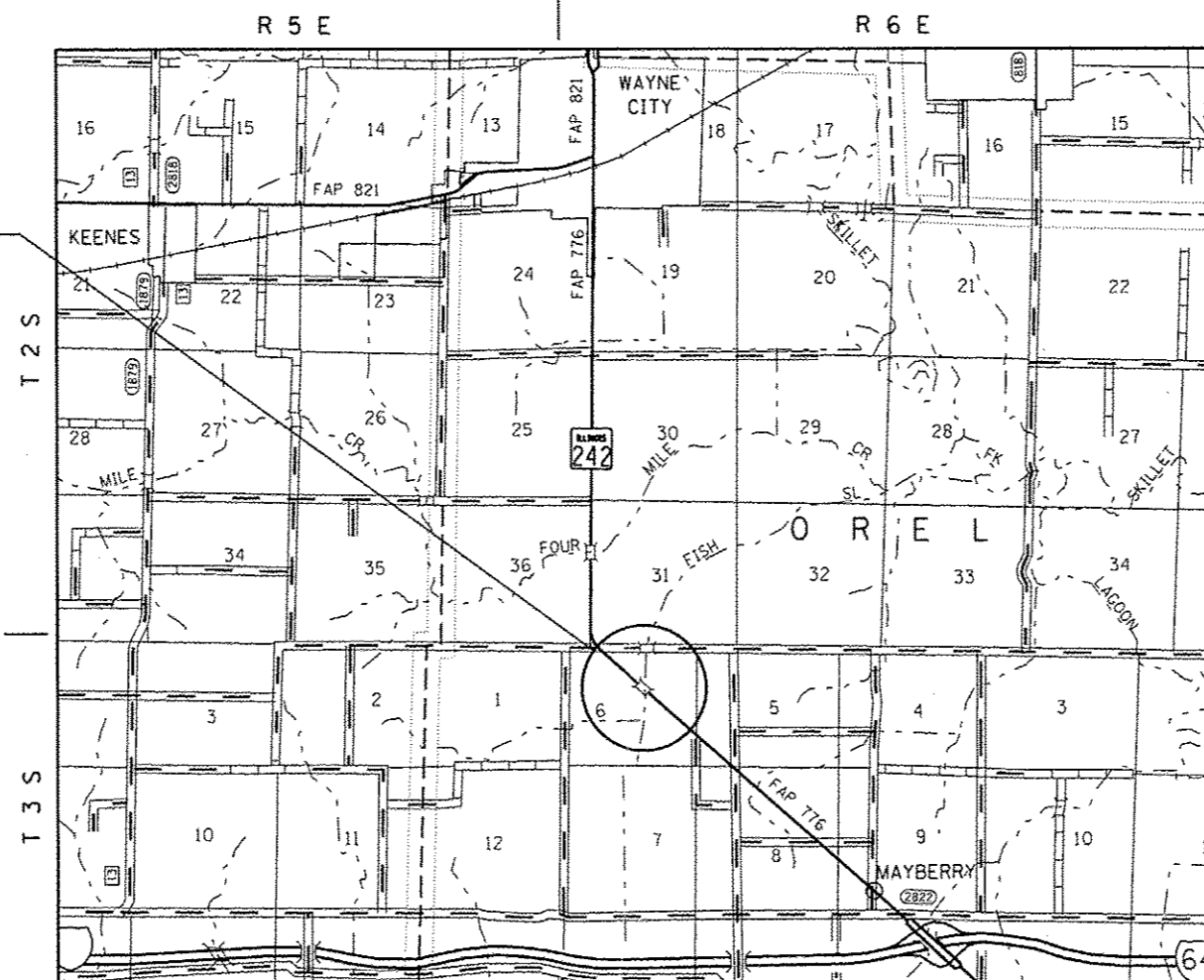
F.A.P. RTE. 776 (IL. RTE. 242)
SECTION (101B)B-1
WAYNE COUNTY
STRUCTURE 096-0070
STATION 203+70.00



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: TOM RONAN
PROJECT MANAGER: JENNY SHULL
PHONE: (217)-342-8361
CONTRACT NO. 74223



GROSS LENGTH = 1050 FT. = 0.199 MILES
NET LENGTH = 1050 FT. = 0.199 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 11, 2014
Roger L. Dinshill, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 30, 2015
John D. Baranzoli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30, 2015
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 66.

STD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-11	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALL FOR PIPE DRAINS
610001-06	SHOULDER INLET WITH CURB
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-13	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
668001-01	US GEOLOGICAL SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS, RESETTING METHOD
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM EDGE OF PAVEMENT
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATION DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701321-14	LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS >= 45 MPH
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME #	USER NAME = tessieyok	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND LIST OF STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\work\101\dot\tessieyok\dms61261\077	#222-ent-index.dgn	DRAWN -	REVISED -			776	(10)BIB-1	WAYNE	66	2	
PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -	SCALE: NA			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
PLOT DATE = 12/10/2014	DATE -	REVISED -	CONTRACT NO. 74223								

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2014; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN SECTION (101B)B-1 CONSISTS OF THE COMPLETE REMOVAL AND REPLACEMENT OF EXISTING STRUCTURE NUMBER 096-0030 WITH A NEW STRUCTURE, BRIDGE APPROACH PAVEMENTS, HOT-MIX ASPHALT RESURFACING, RIP RAP, GUARDRAIL, PAVEMENT MARKING AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THE WORK SHALL BE COMPLETED UTILIZING STAGE CONSTRUCTION WITH TEMPORARY TRAFFIC SIGNALS. THE EXISTING STRUCTURE NUMBER 096-0030, CARRIES ILLINOIS ROUTE 242 OVER FISH SLOUGH AND IS LOCATED APPROXIMATELY 3.5 MILES SOUTH OF WAYNE CITY IN WAYNE COUNTY.

THE COST OF TEMPORARY PAVEMENT MARKING FOR STAGED CONSTRUCTION IS INCLUDED IN THE COST OF STANDARD 701321. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACEMENT OR REMOVAL AS STATED IN ARTICLE 703.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE I & II OF STANDARD 701321 WILL BE REMOVED. THE REMOVED MARKINGS WILL BE PAID FOR AS PAVEMENT MARKING REMOVAL.

PAINT PAVEMENT MARKING LINE - 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN IN THE PLANS, AND AS DETERMINED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSISTS OF 430 FEET OF YELLOW AND 3,482 FEET OF WHITE.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 781 OF THE STANDARD SPECIFICATIONS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS CONSISTS OF 22 TWO-WAY AMBER MARKERS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE) CONSISTS OF 2 TWO-WAY AMBER MARKERS.

THE MATERIAL USED FOR AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR ALL HOT-MIX ASPHALT LIFTS.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE PER SQUARE YARD FOR TEMPORARY RAMP SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE RAMPS.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE THE PROPOSED NEW CONSTRUCTION WILL ABUT THE EXISTING BITUMINOUS CONCRETE SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY DAMAGED UTILITIES AS A RESULT OF WORK IN THE AREA.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

ALL EXCAVATION ABOVE THE BOTTOM OF THE RIPRAP EXCAVATION LINE SHALL BE INCLUDED IN THE COST OF STONE RIPRAP. CLASS A5 AND NO ADDITIONAL COMPENSATION WILL BE PERMITTED.

ALL WORK NECESSARY TO ATTACH THE 4" PIPE DRAINS TO THE ABUTMENT DRAIN PIPES. TRENCHING IN THE PIPE DRAINS AND INSTALLING THE PIPE INTO THE CONCRETE HEADWALLS IS INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PIPE DRAINS 4". THE ESTIMATED QUANTITY OF 62' WAS CALCULATED BY TAKING THE DIFFERENCE BETWEEN THE STRUCTURE PIPE UNDERDRAIN ELEVATIONS AND THE TOE OF SLOPE ELEVATIONS FROM THE CROSS SECTIONS.

PERMANENT SURVEY MARKER, TYPE II SHALL BE CAST-IN-PLACE ACCORDING TO STANDARD 668001. THE PERMANENT SURVEY MARKER SHALL BE INSTALLED INSIDE ROW AS DIRECTED BY THE RESIDENT ENGINEER.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

BINDER COURSE-FULL DEPTH PAVEMENT (4", 2 3/4", AND 2 1/4" LIFTS)
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

BINDER COURSE-OUTSIDE FULL DEPTH PAVEMENT
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

SURFACE COURSE-FULL DEPTH PAVEMENT AND OTHER SURFACE
 APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE C

BASE COURSE WIDENING
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN THE CALCULATING PLAN QUANTITIES:

AGGREGATE SHOULDERS	2.05 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.05 LBS/SQ FT (MILLED SURFACE)
	0.025 LBS/SQ FT (BETWEEN HMA LIFTS)
HOT-MIX ASPHALT	112 LBS/SQ YD/INCH

FILE NAME :	USER NAME : tennalayak	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\p\dos\tennalayak\dms61361\d7	7223-shs-rindex.dgn	DRAWN -	REVISED -		776	(1019)B-1	WAYNE	66	3				
	PLOT SCALE = 1/8" = 100.0000' / 1"	CHECKED -	REVISED -		CONTRACT NO. 74223								
	PLOT DATE = 12/12/2014	DATE -	REVISED -		ILLINOIS/FED. AID PROJECT								
				SCALE: NA	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.					

80/20 FED/STATE

80/20 FED/STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
20200100	EARTH EXCAVATION	CU YD	1405	1405		
20400800	FURNISHED EXCAVATION	CU YD	1921	1921		
20600200	GRANULAR EMBANKMENT, SPECIAL	CU YD	654	654		
25000200	SEEDING, CLASS 2	ACRE	1.1	1.1		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	95	95		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	95	95		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	95	95		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.1	2.1		
25100115	MULCH, METHOD 2	ACRE	1.1	1.1		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	105	105		
28000305	TEMPORARY DITCH CHECKS	FOOT	120	120		
28000500	INLET AND PIPE PROTECTION	EACH	1	1		
28100109	STONE RIPRAP, CLASS A5	SQ YD	823	823		
28200200	FILTER FABRIC	SQ YD	973	973		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	773	773		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	969	969		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	352	352		
40600990	TEMPORARY RAMP	SQ YD	93	93		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	362	362		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	159	159		
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	1264	1264		
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	196	196		
44000100	PAVEMENT REMOVAL	SQ YD	319	319		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	529	529		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50200100	STRUCTURE EXCAVATION	CU YD	204	204		
50300100	FLOOR DRAINS	EACH	8	8		
50300225	CONCRETE STRUCTURES	CU YD	67.6	67.6		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0011	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	210.3	210.3	
50300260	BRIDGE DECK GROOVING	SQ YD	450	450	
50300280	CONCRETE ENCASEMENT	CU YD	4.2	4.2	
50300300	PROTECTIVE COAT	SQ YD	568	568	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1	
50500505	STUD SHEAR CONNECTORS	EACH	1062	1062	
50800105	REINFORCEMENT BARS	POUND	2570	2570	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	56700	56700	
50800515	BAR SPLICERS	EACH	548	548	
51201400	FURNISHING STEEL PILES HP10X42	FOOT	456	456	
51202305	DRIVING PILES	FOOT	456	456	
51500100	NAME PLATES	EACH	1	1	
52100520	ANCHOR BOLTS, 1"	EACH	24	24	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0011	
54002020	EXPANSION BOLTS 3/4 INCH	EACH	44	44	
54003000	CONCRETE BOX CULVERTS	CU YD	16.2	16.2	
54010803	PRECAST CONCRETE BOX CULVERTS 8' X 3'	FOOT	40	40	
54215547	METAL END SECTIONS 12"	EACH	4	4	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	92	92	
60100945	PIPE DRAINS 12"	FOOT	151	151	
60900515	CONCRETE THRUST BLOCKS	EACH	4	4	
61000335	TYPE G INLET BOX, STANDARD 610001	EACH	4	4	
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	250	250	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	326	326	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8	

* SPECIALTY ITEM

FILE NAME =	USER NAME = teasleyak	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
or:\pwork\p\dot\teasleyak\dms61361\0774223-sht-001.dgn	PLOT SCALE = 1/8" = 1'-0"	DRAWN -	REVISED -			776	101B18-1	WAYNE	65	5	
	PLOT DATE = 12/18/2014	CHECKED -	REVISED -			SCALE: NA		SHEET NO. 2 OF 4 SHEETS		STA.	TO STA.
		DATE -	REVISED -			CONTRACT NO. 74223					

80/20 FED/STATE

80/20 FED/STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	344	344		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3912	3912		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	57	57		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1400	1400		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1350	1350		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3912	3912		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	22	22		
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2	2		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8		
* 78200420	GUARDRAIL MARKERS, TYPE B	EACH	2	2		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	45	45		
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	161	161		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	924	924		
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	161	161		

* SPECIALTY ITEM

FILE NAME =	USER NAME = teanleyok	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		F.A.P. RATE =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p101dot1\teanleyok\dms01061\4774223\shs-eqa.dgn	DRAWN -	REVISED -	776				101B1B-1	WAYNE	66	6	
PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -	SCALE: NA SHEET NO. 3 OF 4 SHEETS STA. TO STA.				CONTRACT NO. 74223				
PLOT DATE = 12/10/2014	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

12

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	222	222		
Z0004638	PAVEMENT BREAKING	SO YD	1414	1414		
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHoles (COLD MIX)	TON	2	2		
Z0026407	TEMPORARY SHEET PILING	SO FT	1387	1387		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	124	124		
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	2626	2626		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT				

7

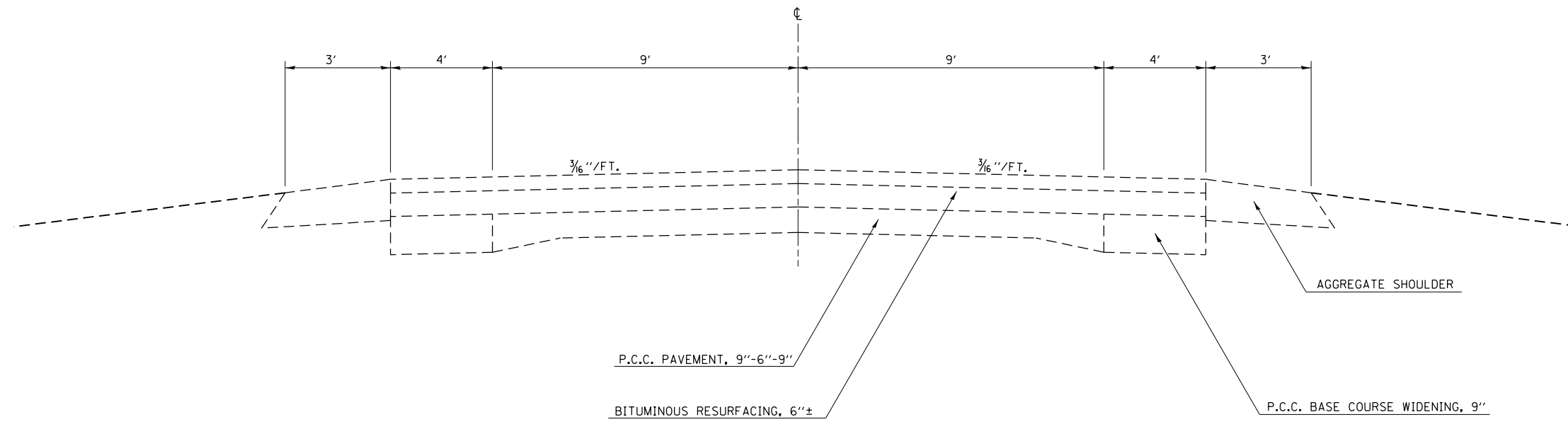
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	PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -
	PLOT DATE = 12/10/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		
SCALE: NA	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(10)B9-1	WAYNE	66	7
CONTRACT NO. 74223			ILLINOIS FED. AID PROJECT	

EXISTING TYPICAL CROSS SECTION



FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
c:\pwwork\pwwork\teasleyck\dms61361\d77	223-sh-typicols.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/10/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

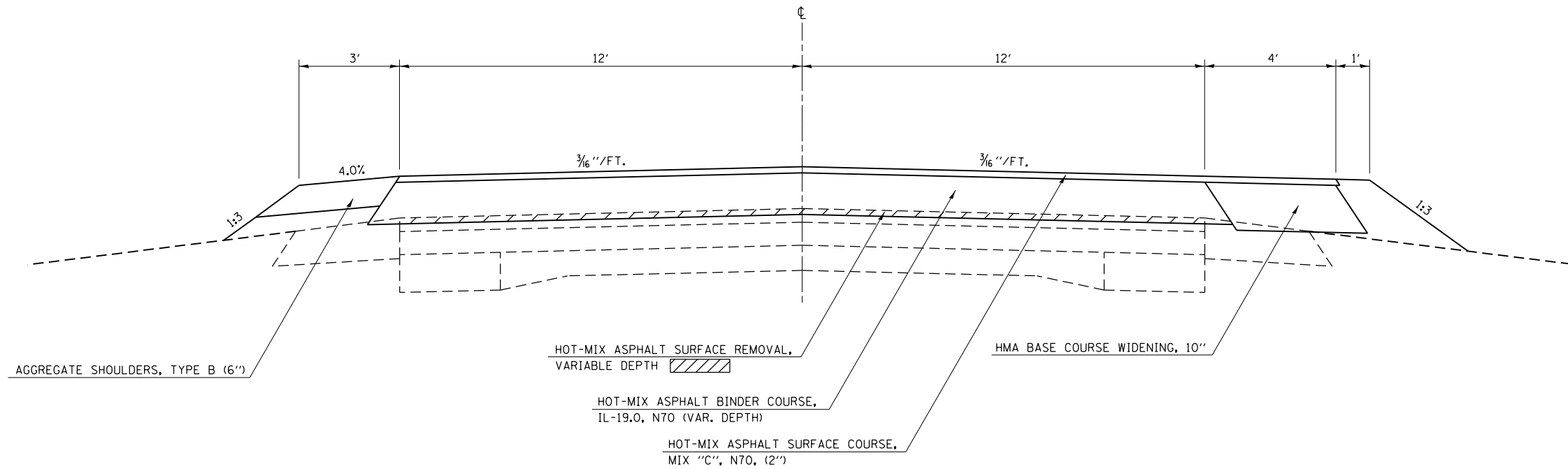
EXISTING TYPICAL CROSS SECTION

SCALE: NA SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	8
CONTRACT NO. 74223			ILLINOIS FED. AID PROJECT	

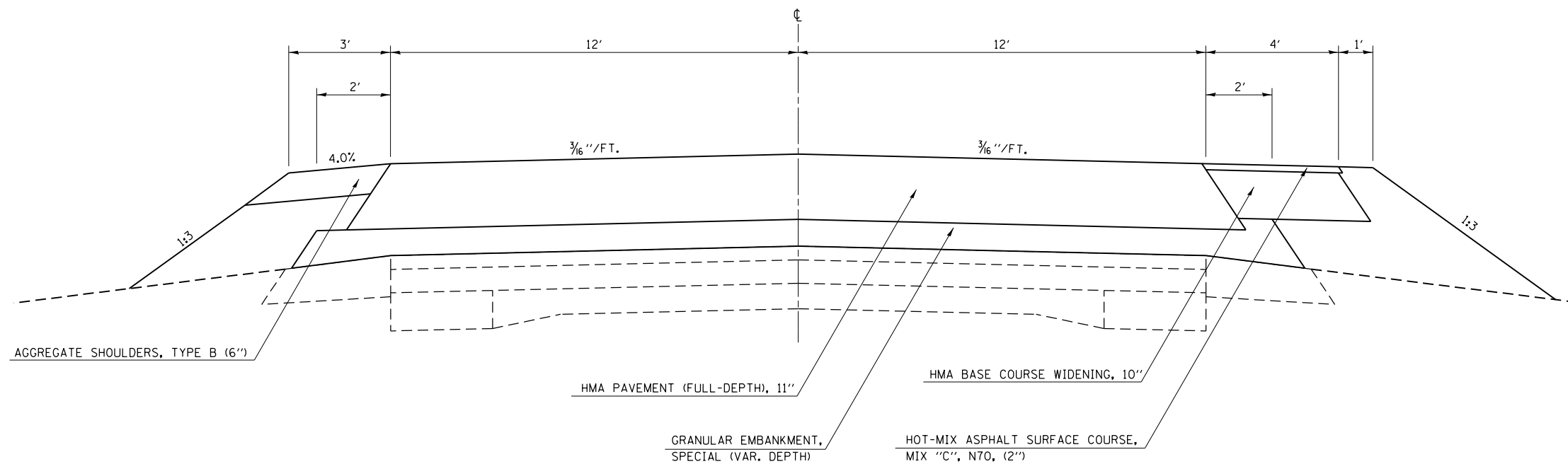
PROPOSED TYPICAL CROSS SECTION

STA. 198+45.0 TO STA. 200+59.0
STA. 206+83.5 TO STA. 208+95.0



PROPOSED TYPICAL CROSS SECTION

STA. 200+59.0 TO STA. 202+76.6
STA. 204+63.4 TO STA. 206+83.5



FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\teasleyck\dms61361\d77#223-sht-typicols.dgn		DRAWN -	REVISED -					776	(101B)B-1	WAYNE	66	9	
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		SCALE: NA			SHEET NO. 2 OF 2 SHEETS		STA.	TO STA.	CONTRACT NO. 74223	
PLOT DATE = 12/10/2014		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

SEEDING SCHEDULE

STATION TO STATION	SEEDING, CLASS 2	TEMPORARY EROSION CONTROL SEEDING	NITROGEN FERTILIZER NURTIENT	PHOSPHORUS FERTILIZER NURTIENT	POTASSIUM FERTILIZER NURTIENT	MULCH, METHOD 2	AGRICULTURAL GROUND LIMESTONE
	ACRE	POUND	POUND	POUND	POUND	ACRE	TON
IL 242							
197+00.0 TO 197+28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197+28.0 TO 198+00.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198+00.0 TO 198+50.0	0.0	2.0	1.8	1.8	1.8	0.0	0.0
198+50.0 TO 199+00.0	0.0	2.0	1.8	1.8	1.8	0.0	0.0
199+00.0 TO 199+50.0	0.0	3.0	2.7	2.7	2.7	0.0	0.1
199+50.0 TO 200+00.0	0.0	3.0	2.7	2.7	2.7	0.0	0.1
200+00.0 TO 200+50.0	0.0	3.0	2.7	2.7	2.7	0.0	0.1
200+50.0 TO 201+00.0	0.0	3.0	2.7	2.7	2.7	0.0	0.1
201+00.0 TO 201+50.0	0.0	4.0	3.6	3.6	3.6	0.0	0.1
201+50.0 TO 202+00.0	0.1	7.0	6.3	6.3	6.3	0.1	0.1
202+00.0 TO 202+50.0	0.1	6.0	5.4	5.4	5.4	0.1	0.1
202+50.0 TO 203+00.0	0.1	5.0	4.5	4.5	4.5	0.1	0.1
203+00.0 TO 203+32.5	0.0	4.0	3.6	3.6	3.6	0.0	0.1
204+07.5 TO 204+50.0	0.0	3.0	2.7	2.7	2.7	0.0	0.1
204+50.0 TO 205+00.0	0.1	9.0	8.1	8.1	8.1	0.1	0.2
205+00.0 TO 205+50.0	0.1	10.0	9.0	9.0	9.0	0.1	0.2
205+50.0 TO 206+00.0	0.1	8.0	7.2	7.2	7.2	0.1	0.2
206+00.0 TO 206+50.0	0.1	7.0	6.3	6.3	6.3	0.1	0.1
206+50.0 TO 207+00.0	0.1	7.0	6.3	6.3	6.3	0.1	0.1
207+00.0 TO 207+50.0	0.1	6.0	5.4	5.4	5.4	0.1	0.1
207+50.0 TO 208+00.0	0.1	5.0	4.5	4.5	4.5	0.1	0.1
208+00.0 TO 208+50.0	0.0	4.0	3.6	3.6	3.6	0.0	0.1
208+50.0 TO 209+00.0	0.0	3.0	2.7	2.7	2.7	0.0	0.1
209+00.0 TO 209+50.0	0.0	1.0	0.9	0.9	0.9	0.0	0.0
209+50.0 TO 210+00.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210+00.0 TO 210+12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210+12.0 TO 210+50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL =	1.1	105.0	95.0	95.0	95.0	1.1	2.1

EARTHWORK SCHEDULE

STATION TO STATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EARTH FILL	EARTHWORK BALANCE, WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
197+00.00 TO 197+28.00	1.3	0.9	0.5	0.5
197+28.00 TO 198+00.00	6.6	5.0	2.5	2.5
198+00.00 TO 198+50.00	4.8	3.6	2.2	1.4
198+50.00 TO 199+00.00	2.9	2.2	11.5	-9.3
199+00.00 TO 199+50.00	0.6	0.4	25.4	-24.9
199+50.00 TO 200+00.00	0.1	0.1	31.1	-31.1
200+00.00 TO 200+50.00	0.0	0.0	43.0	-43.0
200+50.00 TO 201+00.00	0.0	0.0	66.8	-66.8
201+00.00 TO 201+50.00	4.1	3.1	123.9	-120.9
201+50.00 TO 202+00.00	13.4	10.1	206.2	-196.1
202+00.00 TO 202+50.00	21.7	16.3	255.2	-238.9
202+50.00 TO 203+00.00	34.2	25.7	255.4	-229.7
203+00.00 TO 203+32.50	28.4	21.3	158.7	-137.4
BRIDGE	659.2	403.2	0.0	403.2
204+07.50 TO 204+50.0	166.0	124.5	271.7	-147.1
204+50.00 TO 205+00.0	177.8	133.4	332.4	-199.0
205+00.00 TO 205+50.0	118.1	88.6	323.7	-235.1
205+50.00 TO 206+00.0	63.7	47.8	252.8	-205.0
206+00.00 TO 206+50.0	42.5	31.9	223.1	-191.2
206+50.00 TO 207+00.0	28.0	21.0	161.3	-140.3
207+00.00 TO 207+50.0	12.3	9.2	58.4	-49.2
207+50.00 TO 208+00.0	1.6	1.2	37.3	-36.1
208+00.00 TO 208+50.0	2.1	1.6	26.4	-24.8
208+50.00 TO 209+00.0	3.8	2.8	8.9	-6.1
209+00.00 TO 209+50.0	4.4	3.3	2.2	1.1
209+50.00 TO 210+00.0	4.5	3.4	2.1	1.3
210+00.00 TO 210+12.0	1.0	0.8	0.5	0.3
210+12.00 TO 210+50.0	1.6	1.2	0.7	0.5
TOTALS =	1405.0	962.0	2884.0	-1921.0

DRAINAGE SCHEDULE

LOCATION	TYPE G INLET BOX, STANDARD 610001	PIPE DRAINS, 12"	METAL END SECTION, 12"	CONCRETE THRUST BLOCKS
	EACH	FOOT	EACH	EACH
LT 202+86	1	53	1	1
RT 203+07	1	30	1	1
LT 204+33	1	32	1	1
RT 204+54	1	36	1	1
TOTALS	4	151	4	4

PAVEMENT MARKING SCHEDULE

STATION TO STATION	LENGTH FOOT	PAINT PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	SHORT-TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	PAVEMENT MARKING REMOVAL SQ FT
194+88.00 TO 197+28.00	240.0	540.0	540.0	48.0	8.0	3.0	0.0	20.0
197+28.00 TO 203+32.00	604.0	1358.0	1358.0	120.0	20.0	8.0	0.0	0.0
203+32.00 TO 204+09.00	77.0	174.0	174.0	16.0	2.7	0.0	2.0	0.0
204+09.00 TO 210+12.00	603.0	1356.0	1356.0	120.0	20.0	8.0	0.0	0.0
210+12.00 TO 212+29.00	217.0	484.0	484.0	40.0	6.7	3.0	0.0	25.0
TOTALS		3912.0	3912.0	344.0	57.3	22.0	2.0	45.0

GUARDRAIL SCHEDULE

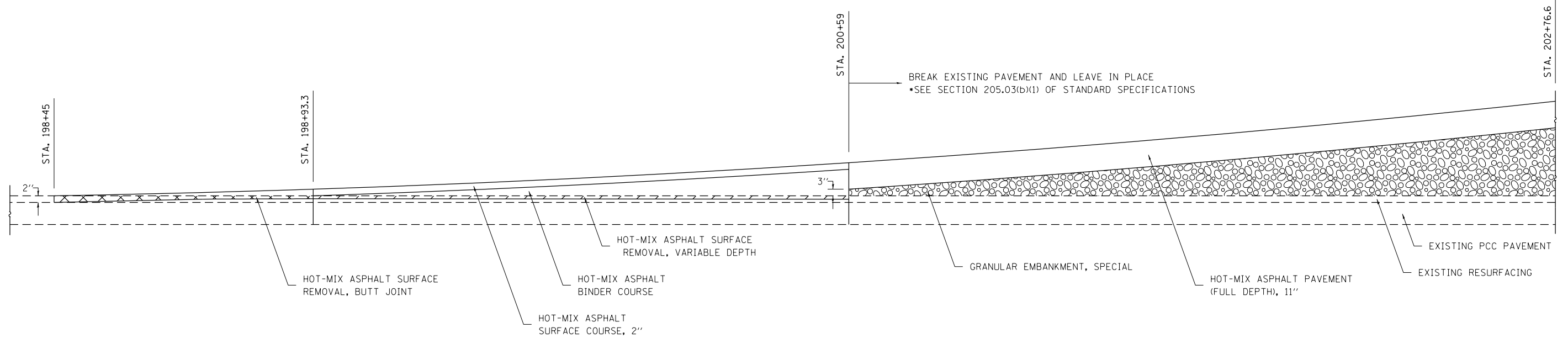
LOCATION	GUARDRAIL REMOVAL FOOT	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) EACH	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS FOOT	TRAFFIC BARRIER TERMINAL, TYPE 6 EACH	GUARDRAIL MARKERS, TYPE A EACH	BARRIER WALL MARKERS, TYPE B EACH	TERMINAL MARKERS - DIRECT APPLIED EACH
SN 096-0070							
NORTHWEST CORNER	44.0	1.0	62.5	1.0	2.0		1.0
SOUTHWEST CORNER	44.0	1.0	62.5	1.0	2.0		1.0
BRIDGE						2.0	
NORTHEAST CORNER	44.0	1.0	62.5	1.0	2.0		1.0
SOUTHEAST CORNER	44.0	1.0	62.5	1.0	2.0		1.0
LT 199+79 TO 199+54	75.0						
RT 198+44 TO 199+19	75.0						
TOTALS=	326.0	4.0	250.0	4.0	8.0	2.0	4.0

RESURFACING SCHEDULE

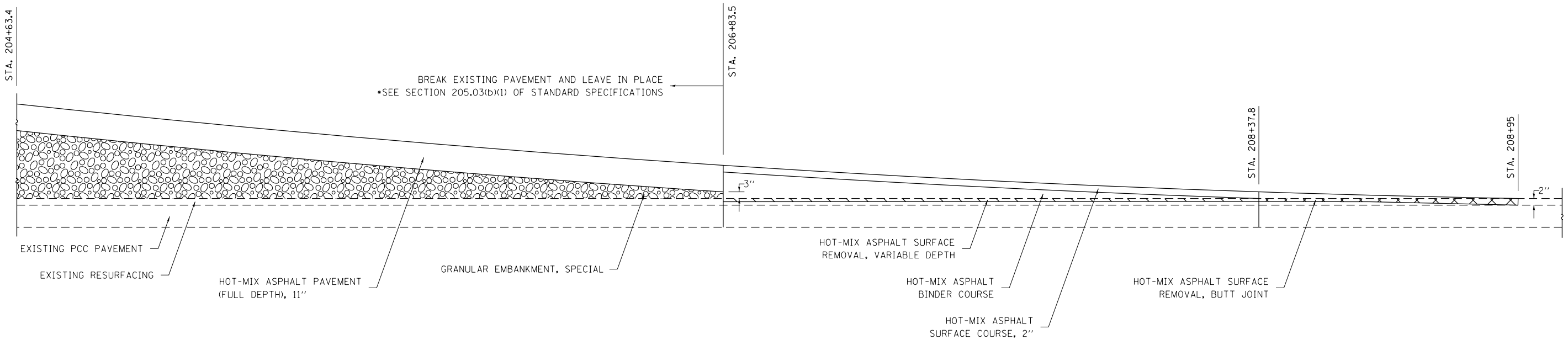
STATION TO STATION	LENGTH FOOT	TEMPORARY SOIL RETENTION SYSTEM SQ FT	PAVEMENT BREAKING SQ YD	GRANULAR EMBANKMENT, SPECIAL CU YD	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11" SQ YD	BITUMINOUS MATERIALS (PRIME COAT) POUND	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 TON	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) SQ YD	AGGREGATE SHOULDERS, TYPE B 6" SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT SQ YD	TEMPORARY RAMP SQ YD
198+45.00 TO 198+93.30	48.3	0.0	0.0	0.0	0.0	62.8	0.0	18.0	0.0	16.1	0.0	161.0	23.3
198+93.30 TO 200+59.00	165.7	0.0	0.0	0.0	0.0	430.8	187.6	61.9	0.0	55.2	478.7	0.0	0.0
200+59.00 TO 202+76.60	217.6	1305.6	628.6	264.6	628.6	0.0	0.0	0.0	0.0	170.8	0.0	0.0	23.3
202+76.60 TO 203+02.50	25.9	0.0	74.8	58.5	0.0	0.0	0.0	0.0	97.8	17.3	0.0	0.0	0.0
203+02.50 TO 204+37.50	135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
204+37.50 TO 204+63.40	25.9	0.0	74.8	58.5	0.0	0.0	0.0	0.0	97.8	17.3	0.0	0.0	0.0
204+63.40 TO 206+83.50	220.1	1320.6	635.8	272.2	635.8	0.0	0.0	0.0	0.0	181.6	0.0	0.0	23.3
206+83.50 TO 208+37.80	154.3	0.0	0.0	0.0	0.0	401.2	174.7	57.6	0.0	51.4	445.8	0.0	0.0
208+37.80 TO 208+95.00	57.2	0.0	0.0	0.0	0.0	74.4	0.0	21.4	0.0	19.1	0.0	190.7	23.3
TOTALS		2626.0	1414.0	654.0	1264.0	969.0	362.0	159.0	196.0	529.0	924.0	352.0	93.0

ROW MARKER SCHEDULE

STATION	SIDE	O/S (FEET)	FURNISHING AND ERECTING RIGHT OF WAY MARKERS (EACH)
197+00.00	LT	30.00	1
197+00.00	RT	30.00	1
202+00.00	LT	70.00	1
202+00.00	RT	80.00	1
205+00.00	LT	70.00	1
205+00.00	RT	80.00	1
210+00.00	LT	30.00	1
210+00.00	RT	30.00	1
TOTAL =			8

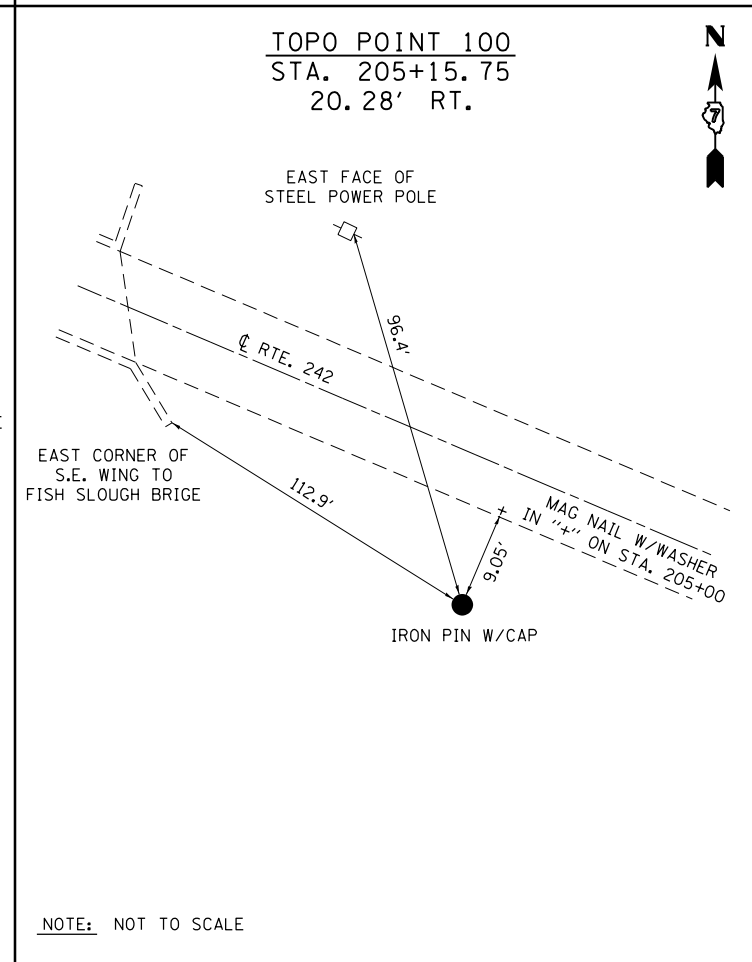
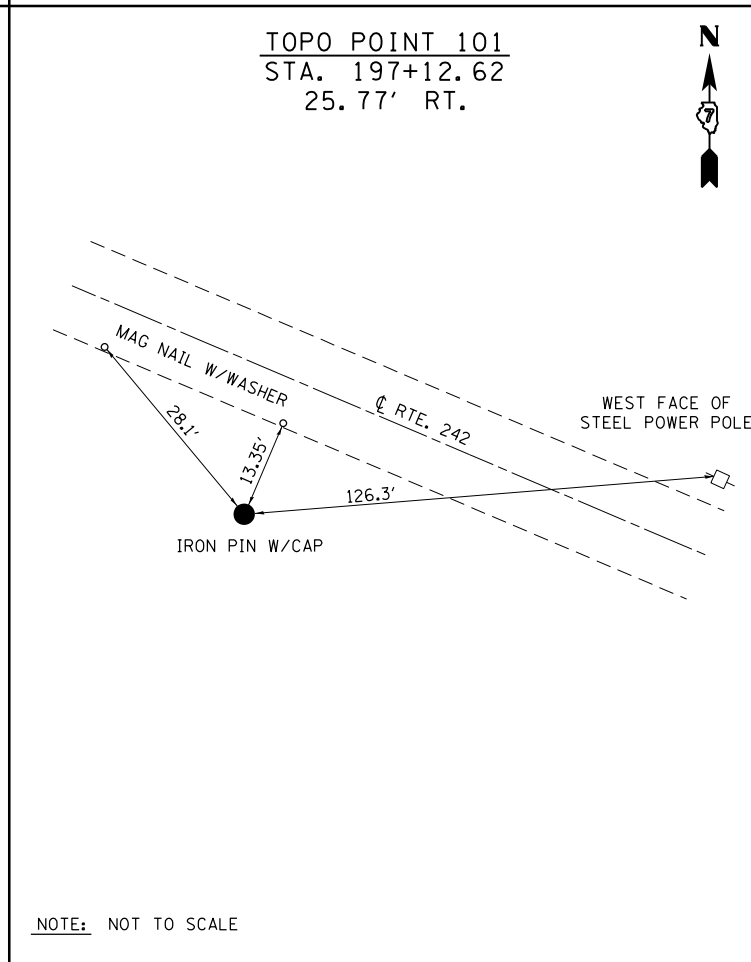
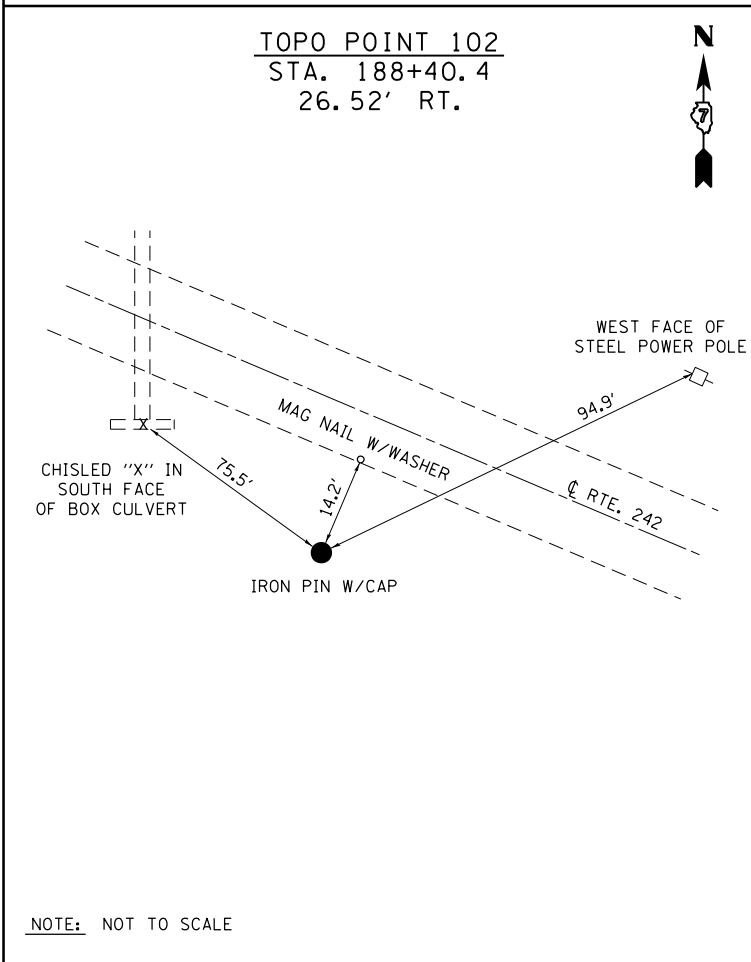
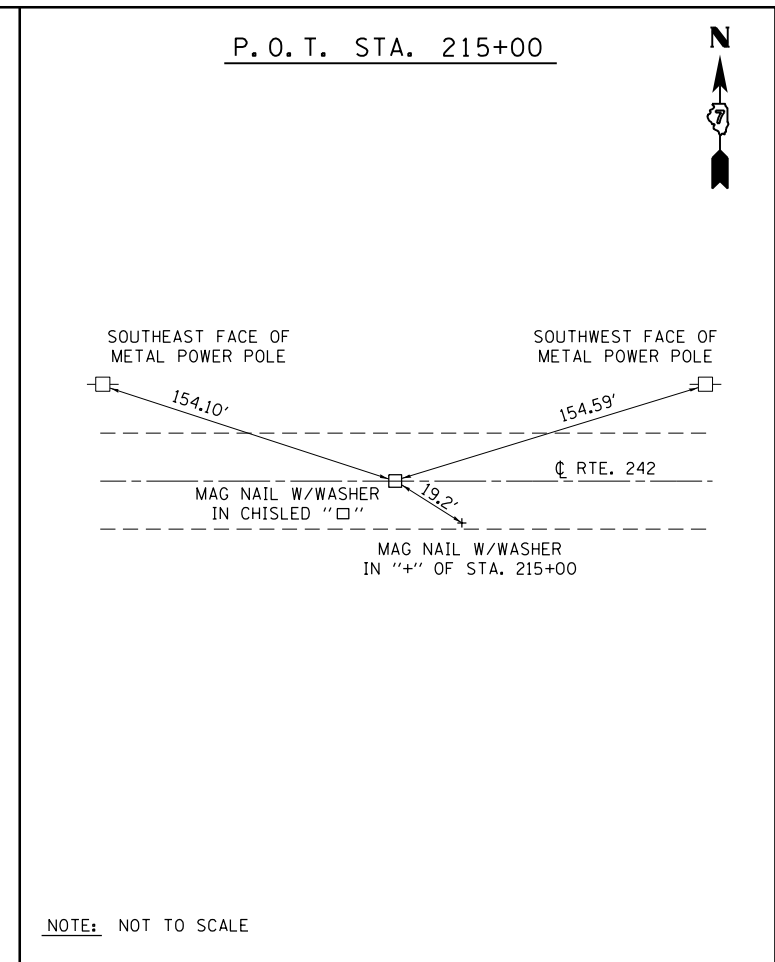
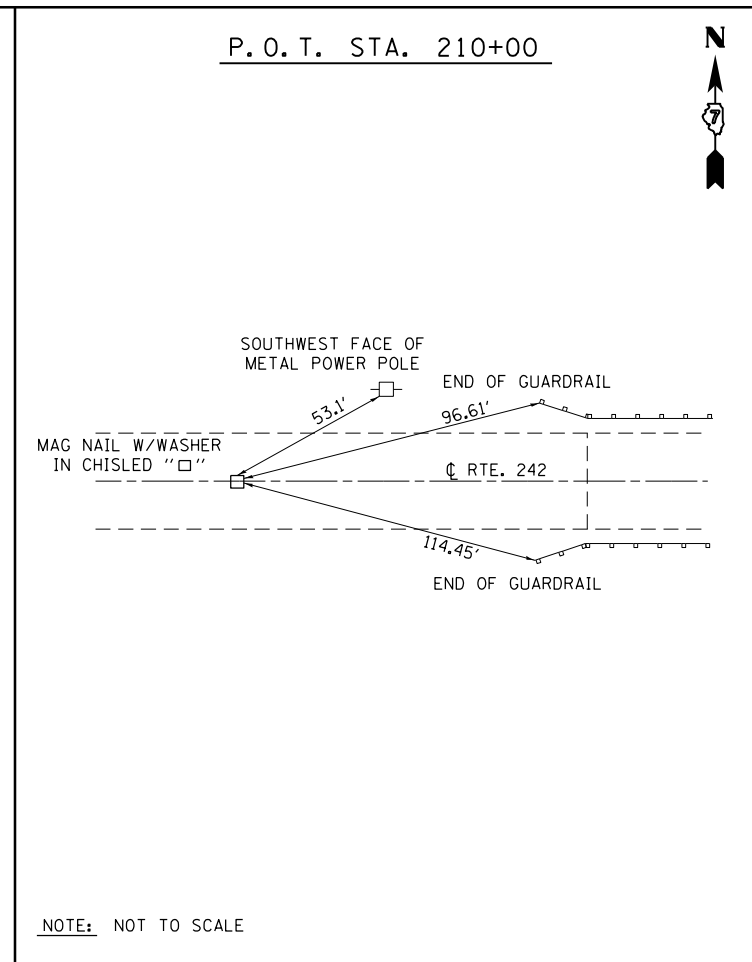
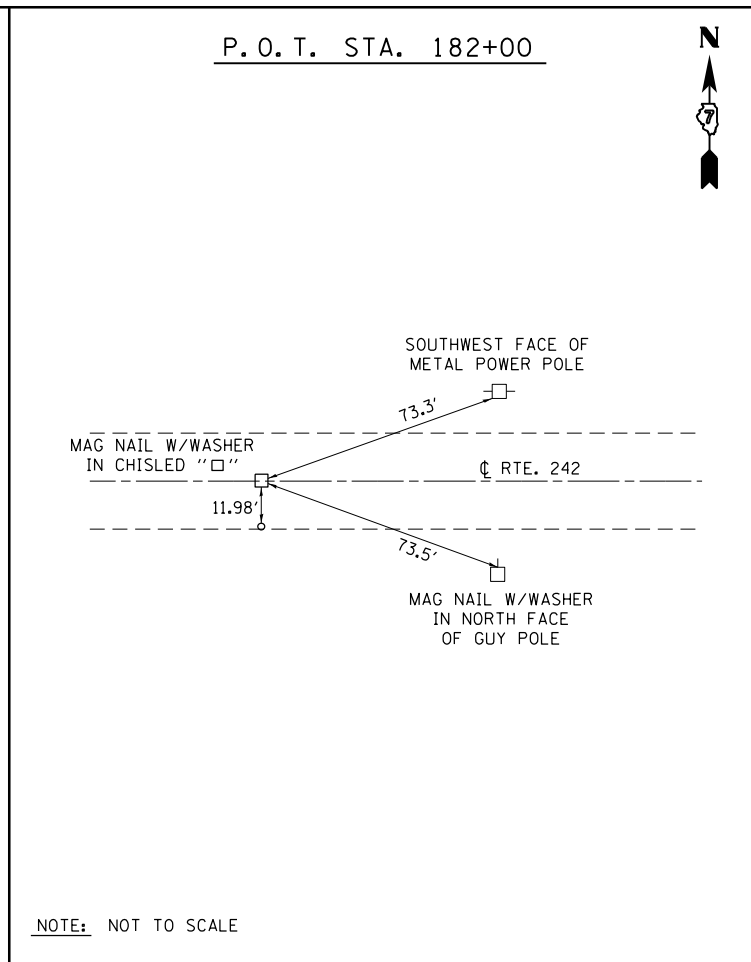
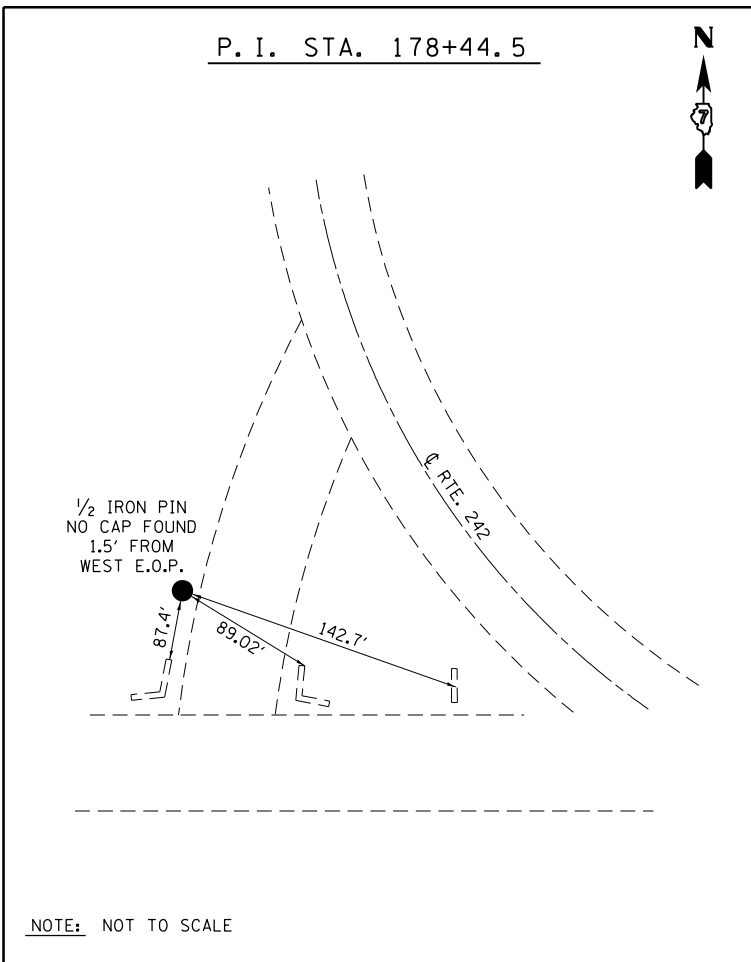


HMA PROFILE GRADE CHANGE DETAIL



HMA PROFILE GRADE CHANGE DETAIL

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HMA PROFILE GRADE CHANGE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\pwidot\teasleyck\dms61361\d77#223-sht-details.dgn		DRAWN -	REVISED -		SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	776	(101B)B-1	WAYNE	66	12
		CHECKED -	REVISED -					CONTRACT NO. 74223			ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -										



BENCHMARKS

BENCHMARK	ELEVATION	STATION	OFFSET	DESCRIPTION
607	402.928	211+30	16' LT	CUT SQUARE CENTER OF BOX CULVERT W SIDE OF IL 242
608	403.564	203+60	16' LT	CUT SQUARE SE CORNER OF FISH SLOUGH BRIDGE E OF IL 242 SN 096-0030
H 253	403.425	177+30	50' RT	H 253 RESET DISC ON NW CORNER OF BOX CULVERT W OF IL 242

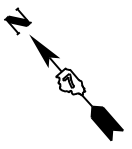
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/10/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TIE POINTS AND BENCHMARKS

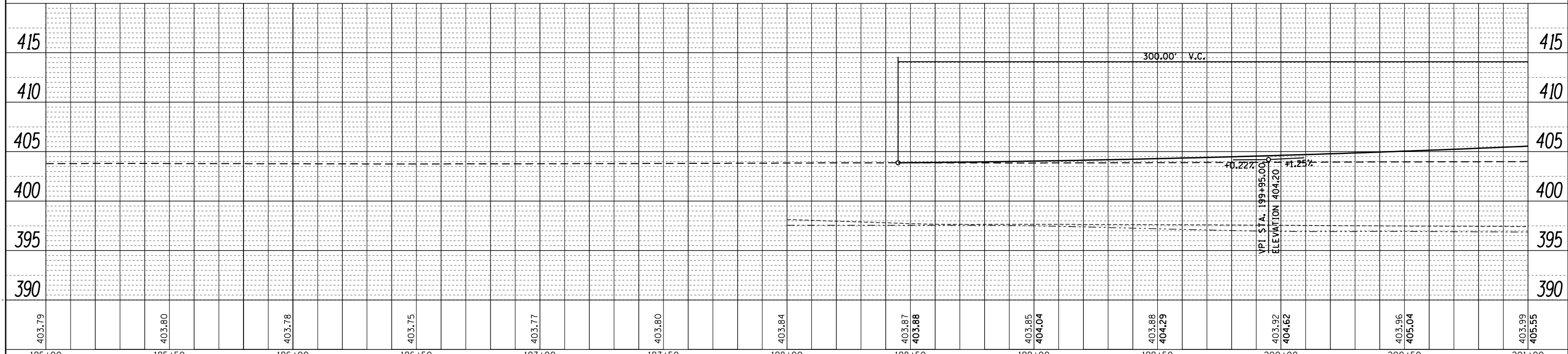
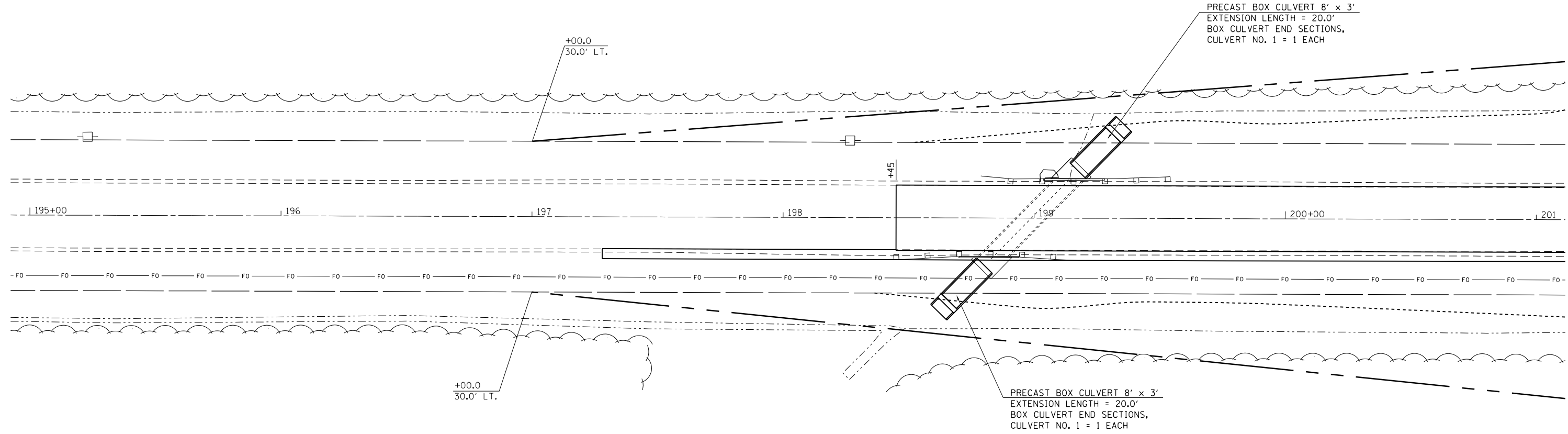
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	13
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

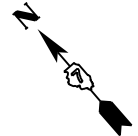


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	PLOTTED		
	ALIGNED		
	CHECKED		
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	NO.		

PROFILE	SURVEYED	BY	DATE
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	GRADES		
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	NOTATIONS		
	CHKD		
	NO.		

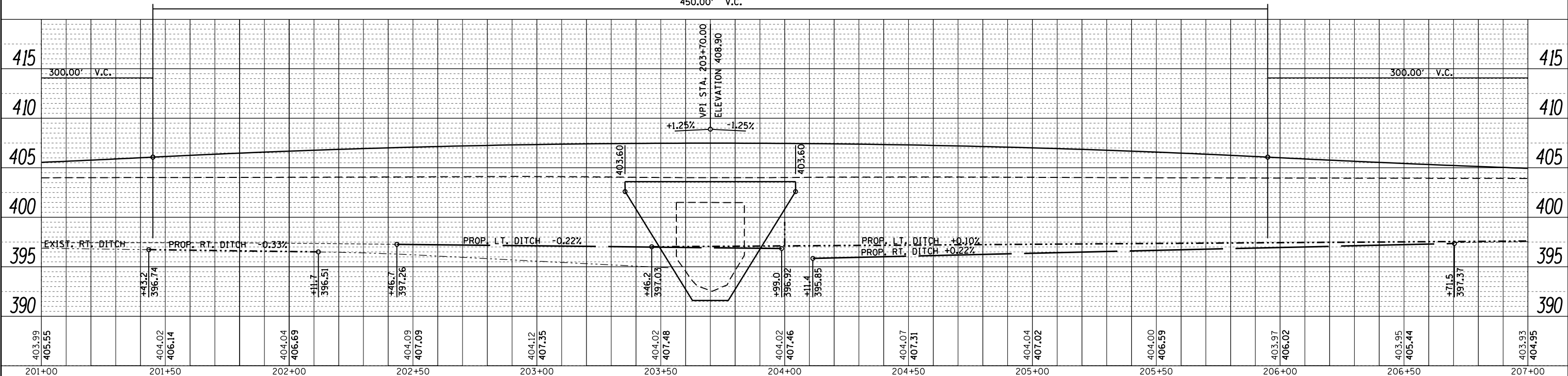
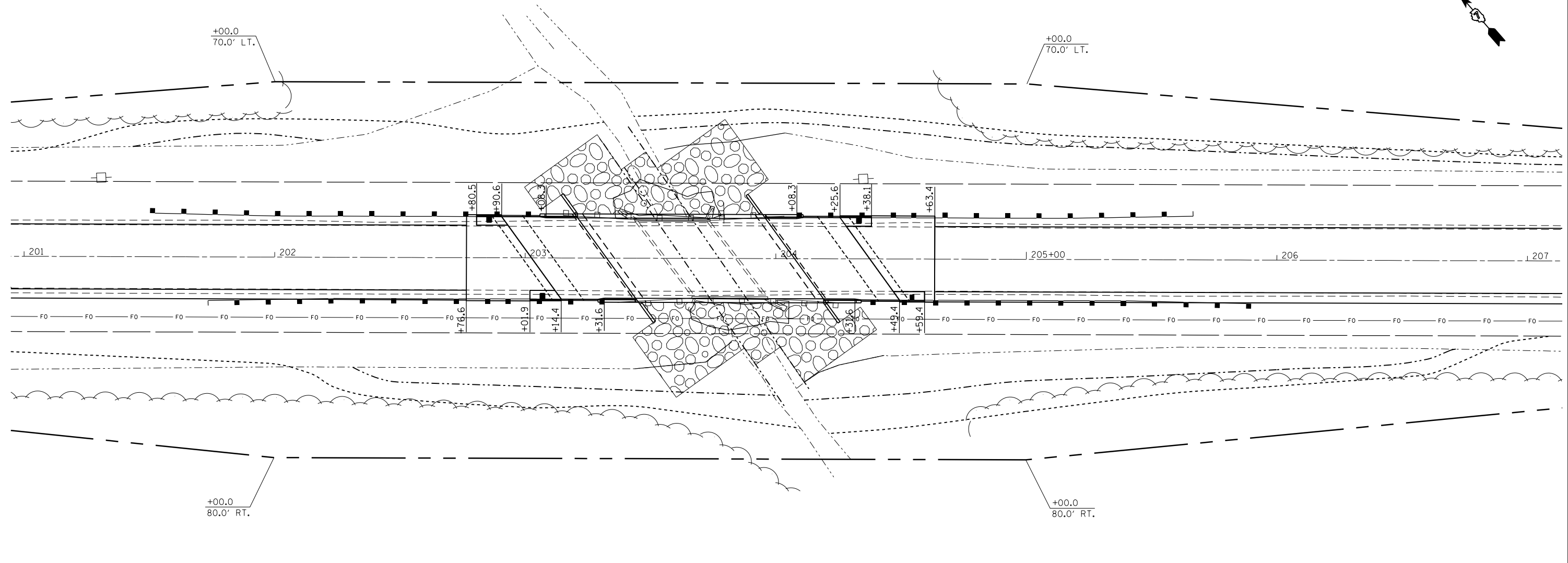


FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 12/10/2014		DATE -	REVISED -									

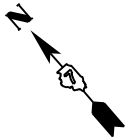


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PROFILE	SURVEYED	BY	DATE
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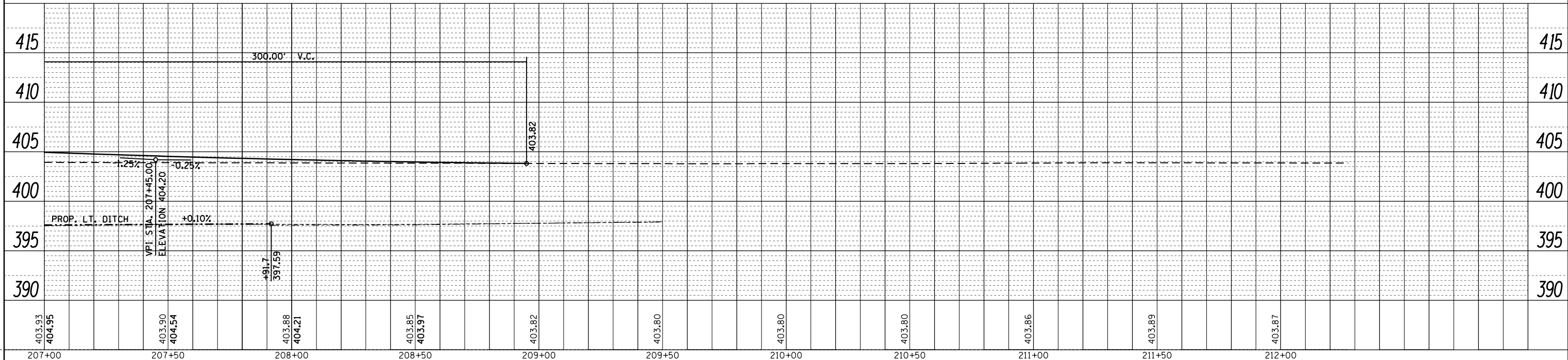
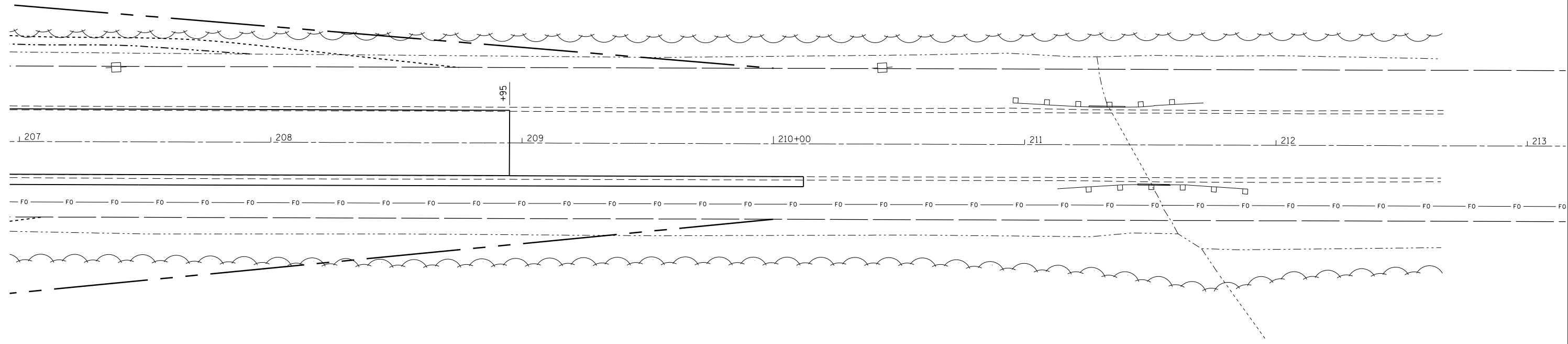


403.99 405.55	404.02 406.14	404.04 406.69	404.09 407.09	404.12 407.35	404.02 407.48	404.02 407.46	404.07 407.31	404.04 407.02	404.00 406.59	403.97 406.02	403.95 405.44	403.93 404.95
201+00	201+50	202+00	202+50	203+00	203+50	204+00	204+50	205+00	205+50	206+00	206+50	207+00



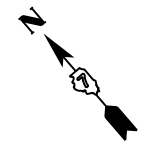
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	PLOTTED		
	ALIGNED		
	CHECKED		
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	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		



FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwidot\teasleyck\dms61361\d77423-sh1-planprofile.dgn		DRAWN -	REVISED -		776	(101B)B-1	WAYNE	66	16				
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PLOT DATE = 12/10/2014		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
				SCALE: 20	SHEET NO. 3 OF 3 SHEETS	STA. 207+00	TO STA. 213+00						

STAGE 1 TRAFFIC CONTROL

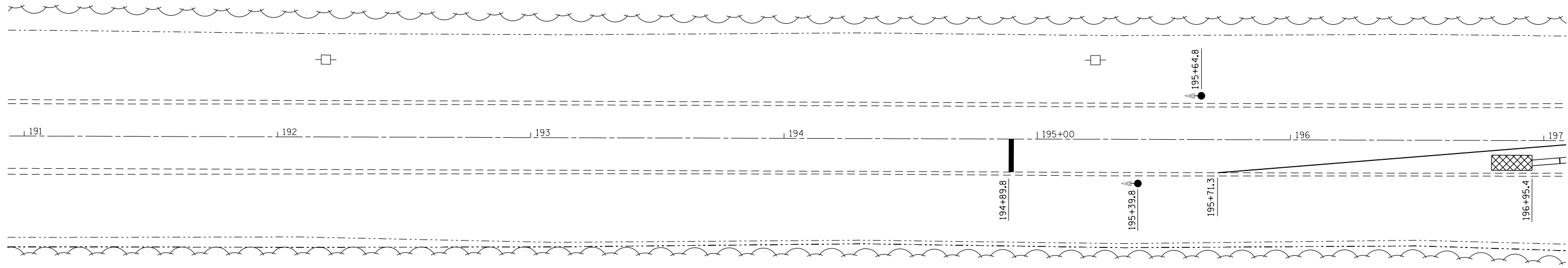


PRE STAGE 1 SEQUENCE OF OPERATIONS

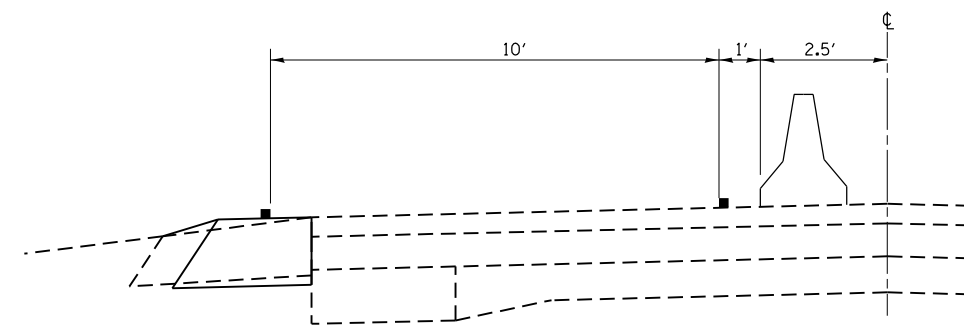
1. EXTEND BOX CULVERT AT STATION 198+86.
2. CONSTRUCT BASE COURSE WIDENING FOR STAGE I TRAFFIC.

STAGE I SEQUENCE OF OPERATIONS

1. ERECT SIGNS, TRAFFIC SIGNALS, TEMPORARY BARRIERS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321 AND THE DETAILS IN THE PLANS.
2. REMOVE THE STAGE I PORTION OF THE EXISTING STRUCTURE, PAVEMENT, SHOULDERS, AND GUARDRAIL.
3. CONSTRUCT THE STAGE I PORTION OF THE PROPOSED STRUCTURE, BRIDGE APPROACH, PAVEMENT CONNECTOR, HMA BASE COURSE, RIP RAP, AND NEW GUARDRAIL.
4. CONSTRUCT BASE COURSE WIDENING FOR STAGE II TRAFFIC.



STAGE I TYPICAL



LEGEND

- TEMPORARY BRIDGE TRAFFIC SIGNALS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- STOP BAR

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
ct:\pw\work\p\idot\teasleyck\dms61361\d77#223-sht-trafficcontrol.dgn		DRAWN -	REVISED -
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	PLOT DATE = 12/10/2014	DATE -	REVISED -

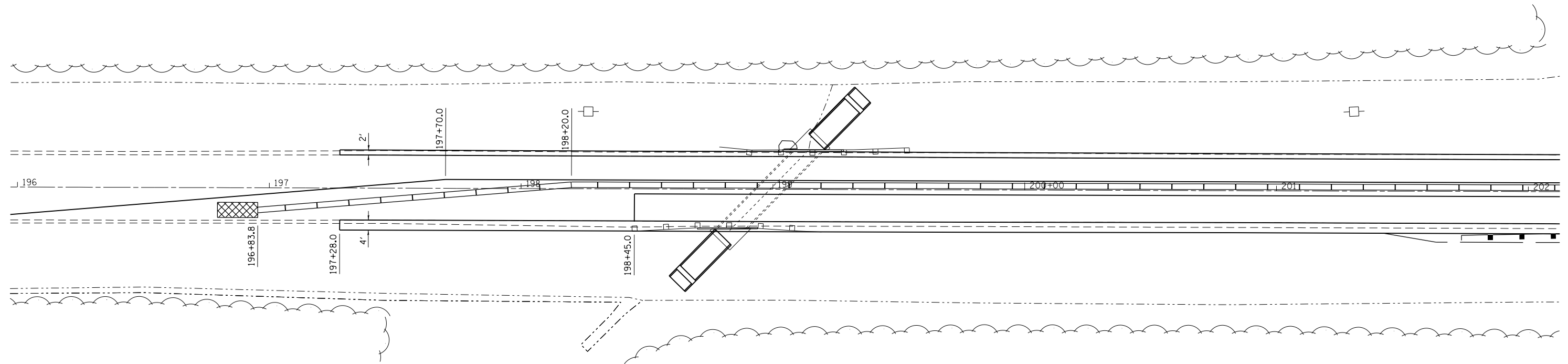
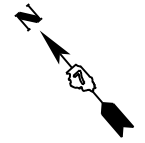
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 TRAFFIC CONTROL




SCALE: 20 SHEET NO. 1 OF 4 SHEETS STA. 191+00 TO STA. 197+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	17
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

STAGE 1 TRAFFIC CONTROL



LEGEND

-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
- STOP BAR

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
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	PLOT DATE = 12/10/2014	DATE -	REVISED -

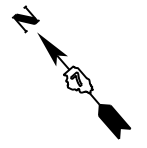
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 TRAFFIC CONTROL

SCALE: 20 SHEET NO. 2 OF 4 SHEETS STA. 196+00 TO STA. 202+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	18
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

STAGE 1 TRAFFIC CONTROL



TEMPORARY CONCRETE BARRIER

196+95.4	TO	198+20.0	125.0 FOOT
198+20.0	TO	209+20.0	1100.0 FOOT
209+20.0	TO	210+44.6	125.0 FOOT
TOTAL =			1350.0 FOOT

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

196+95.4	1.0 EACH
210+44.6	1.0 EACH
TOTAL =	2.0 EACH

PAVEMENT REMOVAL

202+76.6	TO	203+38.0	74.9 SQ YD
204+13.0	TO	204+63.4	61.2 SQ YD
TOTAL =			136.0 SQ YD

PINNING TEMPORARY CONCRETE BARRIER

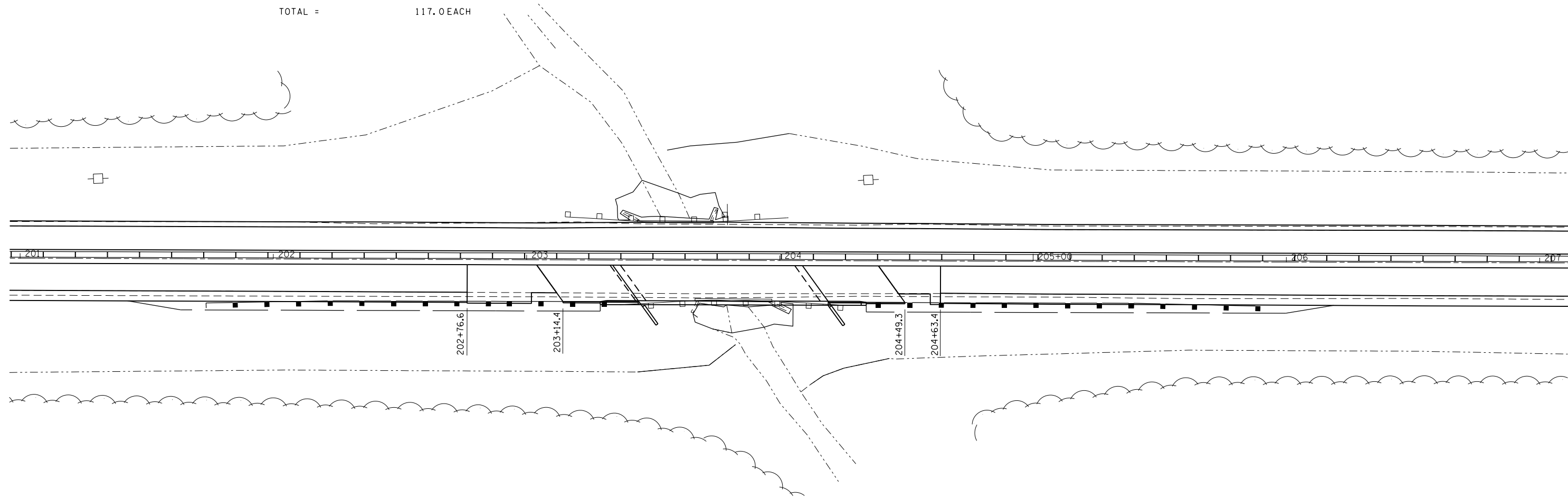
196+95.4	TO	198+20.0	3.0 EACH
198+20.0	TO	209+20.0	111.0 EACH
209+20.0	TO	210+44.6	3.0 EACH
TOTAL =			117.0 EACH

TEMPORARY BRIDGE TRAFFIC SIGNALS




S. N. 096-0070	1.0 EACH
TOTAL =	1.0 EACH

HOT-MIX ASPHALT BASE COURSE WIDENING, 10"

197+28.0	TO	210+12.0	285.3 SQ YD
197+28.0	TO	202+76.6	243.8 SQ YD
204+63.4	TO	210+12.0	243.8 SQ YD
TOTAL =			773.0 SQ YD



LEGEND

-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
- STOP BAR

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
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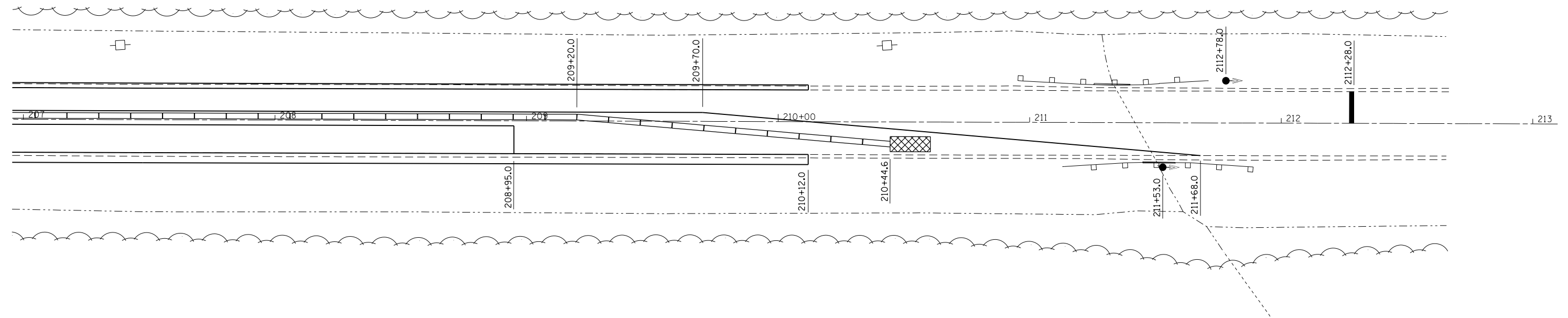
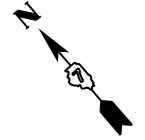
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 TRAFFIC CONTROL




SCALE: 20 SHEET NO. 3 OF 4 SHEETS STA. 201+00 TO STA. 207+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	19
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

STAGE 1 TRAFFIC CONTROL



LEGEND

-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
- STOP BAR

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
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	PLOT DATE = 12/10/2014	DATE -	REVISED -

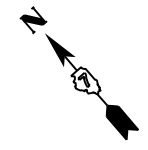
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 TRAFFIC CONTROL

SCALE: 20 SHEET NO. 4 OF 4 SHEETS STA. 207+00 TO STA. 213+00

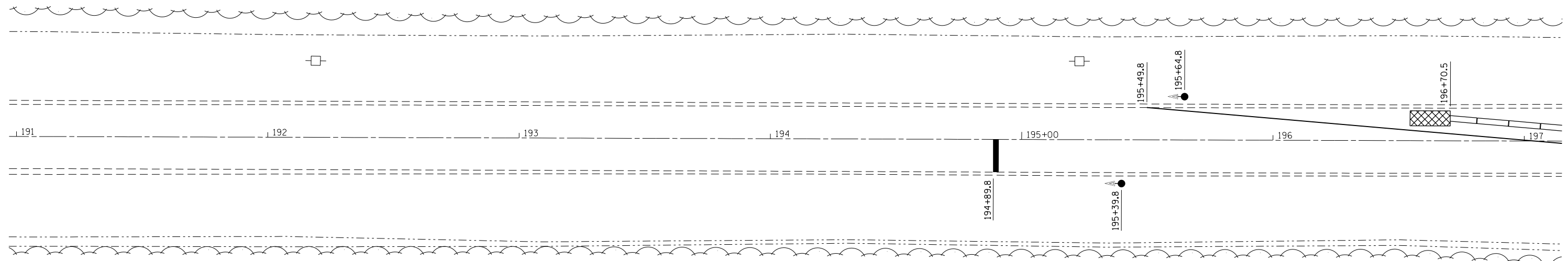
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	20
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

STAGE 2 TRAFFIC CONTROL

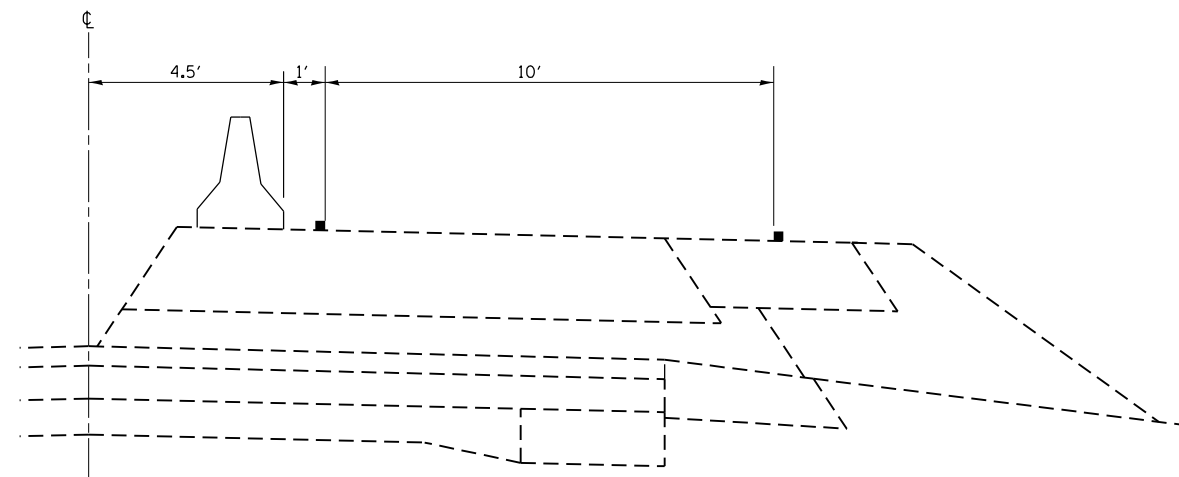


STAGE II SEQUENCE OF OPERATIONS

1. RELOCATE TEMPORARY CONCRETE BARRIERS, SIGNS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321 AND THE DETAILS IN THE PLANS.
2. REMOVE THE STAGE II PORTION OF THE EXISTING STRUCTURE, PAVEMENT, SHOULDERS, AND GUARDRAIL.
3. CONSTRUCT THE STAGE II PORTION OF THE STRUCTURE, BRIDGE APPROACH, PAVEMENT CONNECTOR, BASE COURSE, RIP RAP, AND NEW GUARDRAIL. REMOVE TRAFFIC CONTROL STANDARD 701321.
4. COMPLETE HOT-MIX ASPHALT SURFACE COURSE. CONSTRUCT AGGREGATE SHOULDERS. COMPLETE EARTHWORK.
5. CONSTRUCT SEEDING, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE PROJECT.



STAGE II TYPICAL



LEGEND

- TEMPORARY BRIDGE TRAFFIC SIGNALS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- STOP BAR

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
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	PLOT DATE = 12/10/2014	DATE -	REVISED -

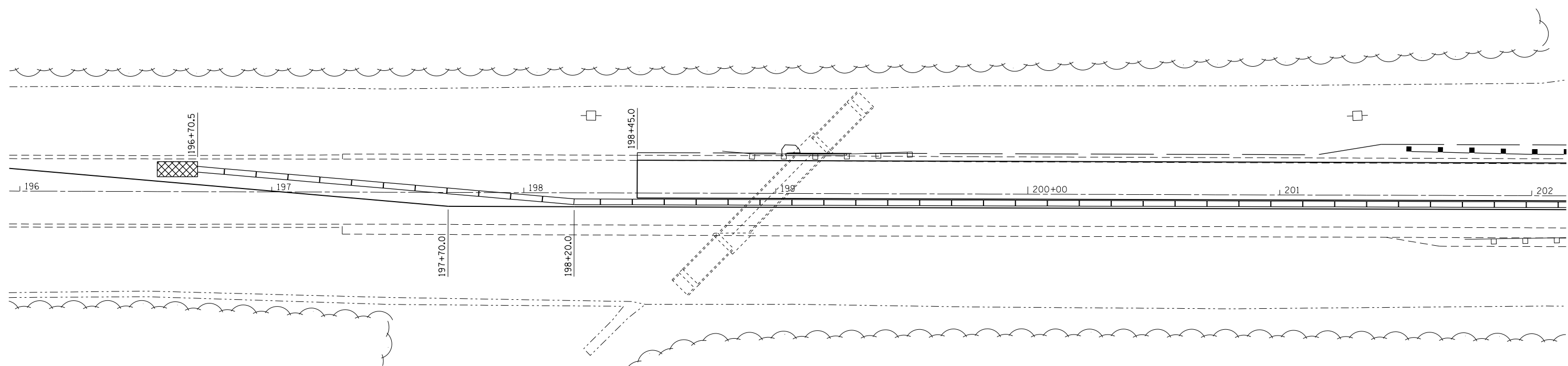
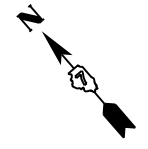
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 TRAFFIC CONTROL





SCALE: 20 SHEET NO. 1 OF 4 SHEETS STA. 191+00 TO STA. 197+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	21
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

STAGE 2 TRAFFIC CONTROL



LEGEND

-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
-  STOP BAR

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
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	PLOT DATE = 12/10/2014	DATE -	REVISED -

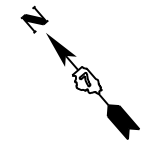
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 TRAFFIC CONTROL

SCALE: 20 SHEET NO. 2 OF 4 SHEETS STA. 196+00 TO STA. 202+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	22
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

STAGE 2 TRAFFIC CONTROL



TEMPORARY CONCRETE BARRIER

196+70.5 TO 196+95.4	25.0 FOOT	
210+44.6 TO 210+69.5	25.0 FOOT	
TOTAL =	50.0 FOOT	

PINNING TEMPORARY CONCRETE BARRIER

196+70.5 TO 198+20.0	3.0 EACH	
198+20.0 TO 209+20.0	99.0 EACH	
209+20.0 TO 210+69.5	3.0 EACH	
TOTAL =	105.0 EACH	

PAVEMENT REMOVAL

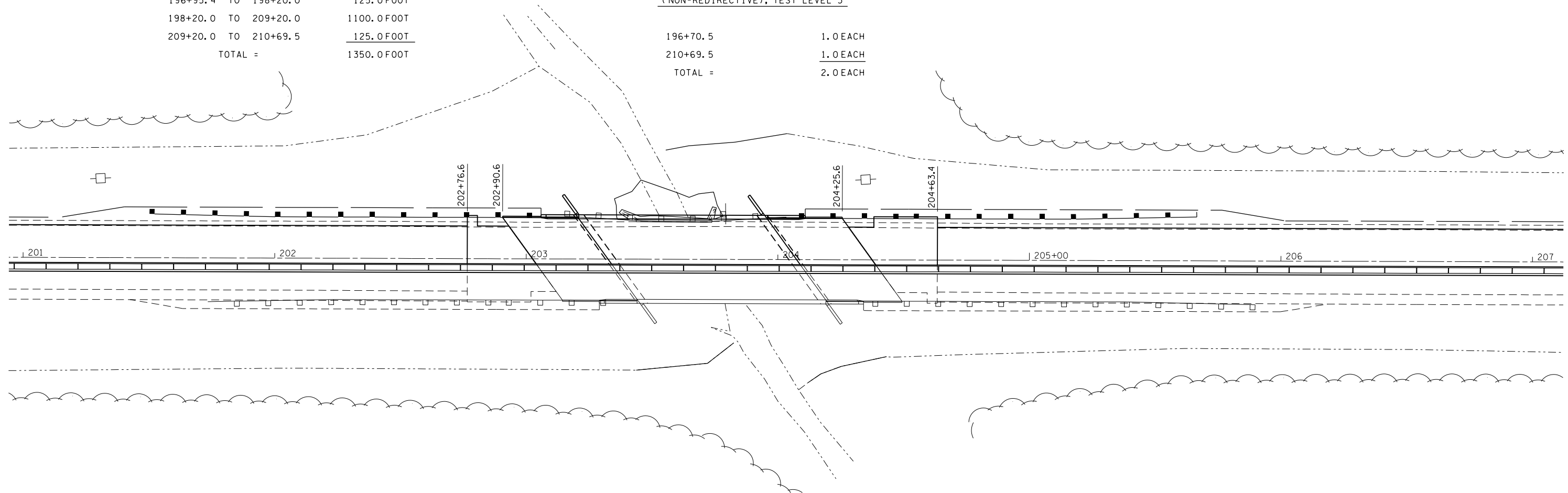
202+76.6 TO 203+28.0	84.5 SQ YD	
204+03.0 TO 204+63.4	98.8 SQ YD	
TOTAL =	183.0 SQ YD	

RELOCATE TEMPORARY CONCRETE BARRIER

196+95.4 TO 198+20.0	125.0 FOOT	
198+20.0 TO 209+20.0	1100.0 FOOT	
209+20.0 TO 210+69.5	125.0 FOOT	
TOTAL =	1350.0 FOOT	

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

196+70.5	1.0 EACH	
210+69.5	1.0 EACH	
TOTAL =	2.0 EACH	



LEGEND

- TEMPORARY BRIDGE TRAFFIC SIGNALS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- STOP BAR

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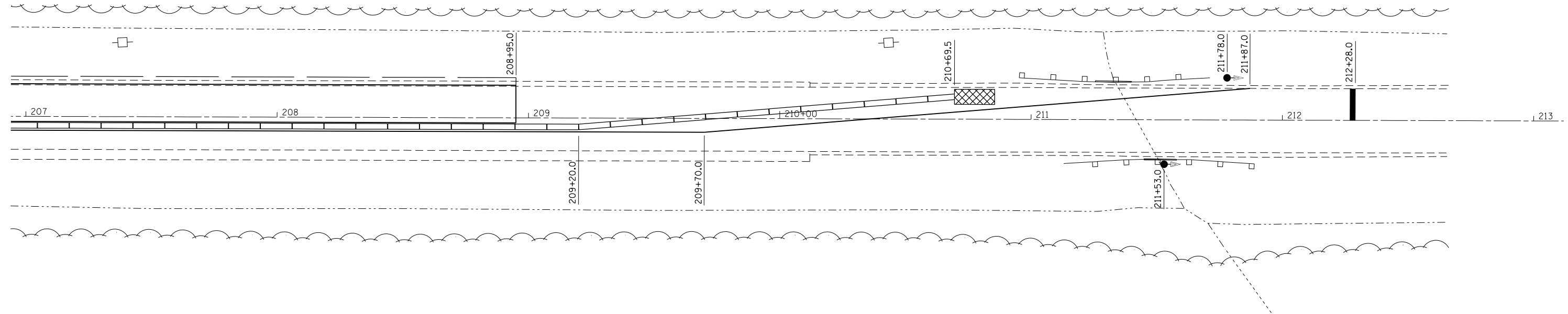
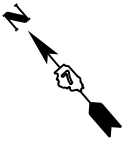
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 TRAFFIC CONTROL




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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	23
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

STAGE 2 TRAFFIC CONTROL



LEGEND

-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER
- STOP BAR

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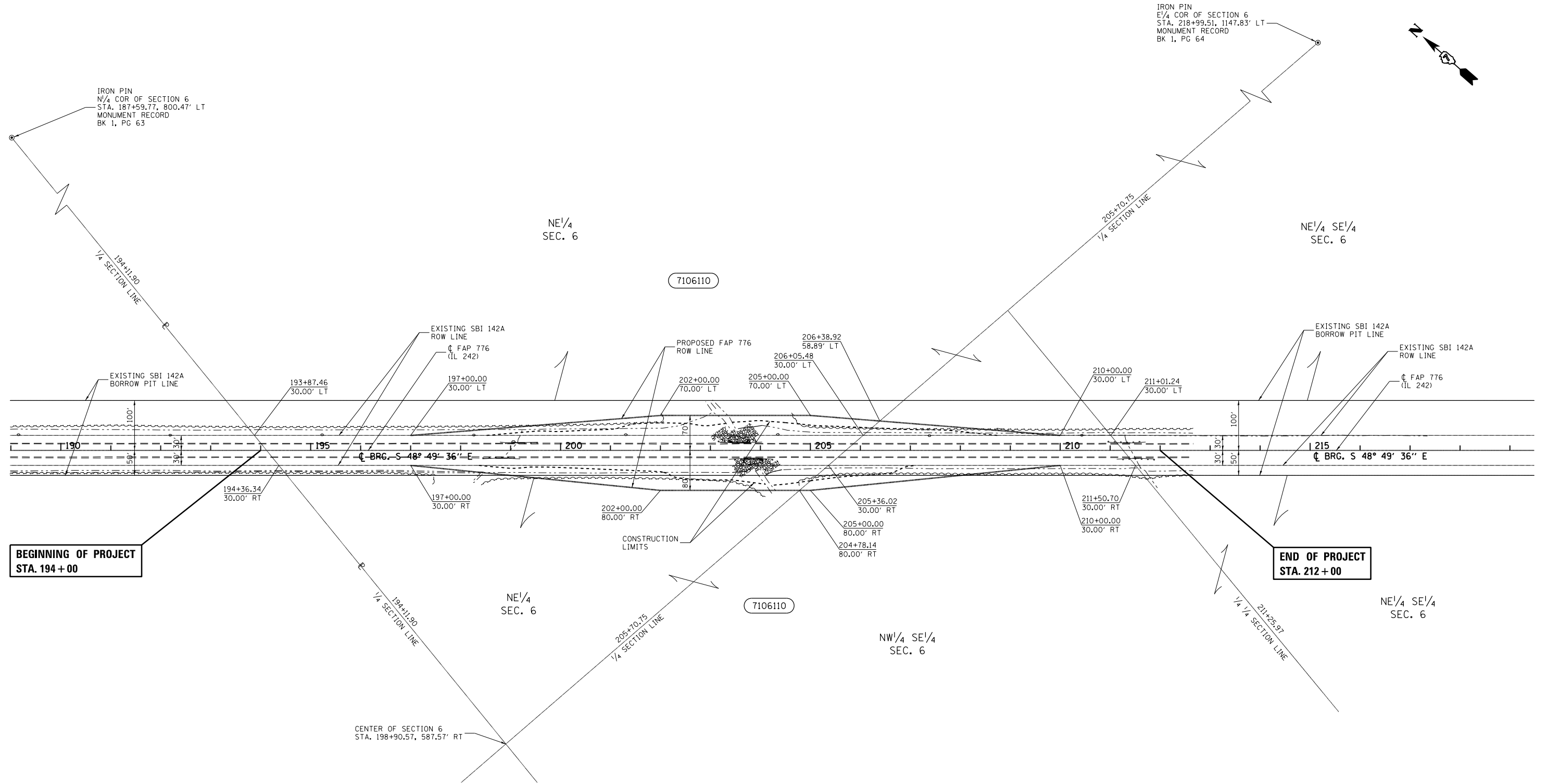
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 TRAFFIC CONTROL

SCALE: 20 SHEET NO. 4 OF 4 SHEETS STA. 207+00 TO STA. 213+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	24
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

T.3S.-R.6E., 3rd P.M., OREL TWP.



IRON PIN
E/4 COR OF SECTION 6
STA. 218+99.51, 1147.83' LT
MONUMENT RECORD
BK 1, PG 64

IRON PIN
N/4 COR OF SECTION 6
STA. 187+59.77, 800.47' LT
MONUMENT RECORD
BK 1, PG 63

**BEGINNING OF PROJECT
STA. 194+00**

**END OF PROJECT
STA. 212+00**

NOTE:
BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(107)
TEMPORARY EASEMENTS REQUIRED TO IMPROVE DRAINAGE AND AS A WORK AREA.

- ▲ - STONE
- ⊙ - IRON PIN
- ⊗ - MAG NAIL
- ⊠ - ROW MARKER
- - FENCE POST
- (R) RECORDED DISTANCE
- TEMPORARY EASEMENT

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD	
7106110	CONTINENTAL ILLINOIS NATIONAL BANK & TRUST OF CHICAGO, TRUSTEE	1.653 AC.	4.390 AC.		223.779 AC.								

FILE NAME: d774223-sht-row.dgn	USER NAME = teasleyck	DESIGNED - JMD	REVISED -
		DRAWN - JMD	REVISED -
		CHECKED - JMD	REVISED -
		DATE - 01/16/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS	
PROJECT	JOB NO. R-97-006-11
SCALE: 1" = 100'	STA. 194+00.00 TO STA. 212+00.00
SHEET NO. 1 OF 1 SHEETS	

F.A.P. RTE. 776	SECTION (101B)B-1	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74223	

Bench Mark: #608; Cut square on the NE corner of SN 096-0030:
Station 203+50, 16' left; Elev. 403.56

Existing Structure: SN 096-0030 built as SBI Rt. 142-A, Section 101-B in 1927.
The existing single span structure consists of a 20" concrete slab with over 4" of wearing surface supported by closed abutments on untreated timber piles. The existing structure is 30'-0" back to back of abutments and 32'-2" out to out of deck. One lane of traffic will be maintained at all times using staged construction.

No Salvage

STATION 203+70
BUILT 20... BY
STATE OF ILLINOIS
FAP 776 SEC. (101B)B-1
LOADING HL-93
STRUCTURE NO. 096-0070

NAME PLATE
See Std. 515001 for
Additional Details

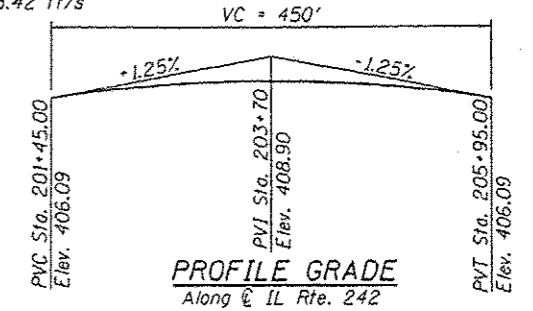
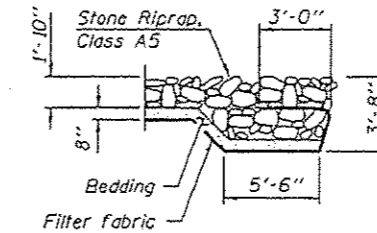
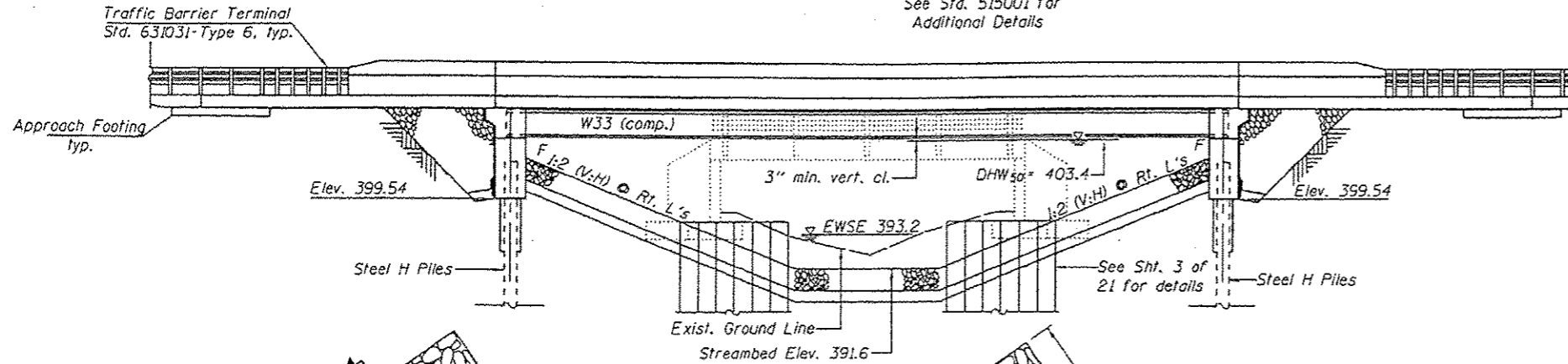
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft)	W. Abut.	E. Abut.
	399.54	399.54

WATERWAY INFORMATION

		Drainage Area = 4.11 mi ²		Low Grade Elev. = 403.7 - Sta. 193+00					
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.	Not. H.W.E.	Head - Ft.	Headwater El.			
		Exist.	Prop.	Exist.	Prop.	Exist.			
	10	1389	172	364	402.4	1.2	0.5	403.6	403.0
	12	1520	172		402.5	1.3		403.8	
Design	50	2277	172	420	403.4	0.7	0.3	404.1	403.7
Base	100	2677	172	431	403.8	0.3	0.3	404.1	404.1
Overtopping Exist.	12	1520	172		402.5	1.3		403.8	
Overtopping Prop.	20	1810		392	402.9		0.8		403.7
Max. Calc.	500	3718	172	431	404.5	0.1	0.1	404.6	404.6

10 yr. velocity thru exist. bridge=8.08 ft/s
10 yr. velocity thru prop. bridge=3.42 ft/s



ELEVATION

SECTION A-A

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications
with 2008 & 2009 Interims

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

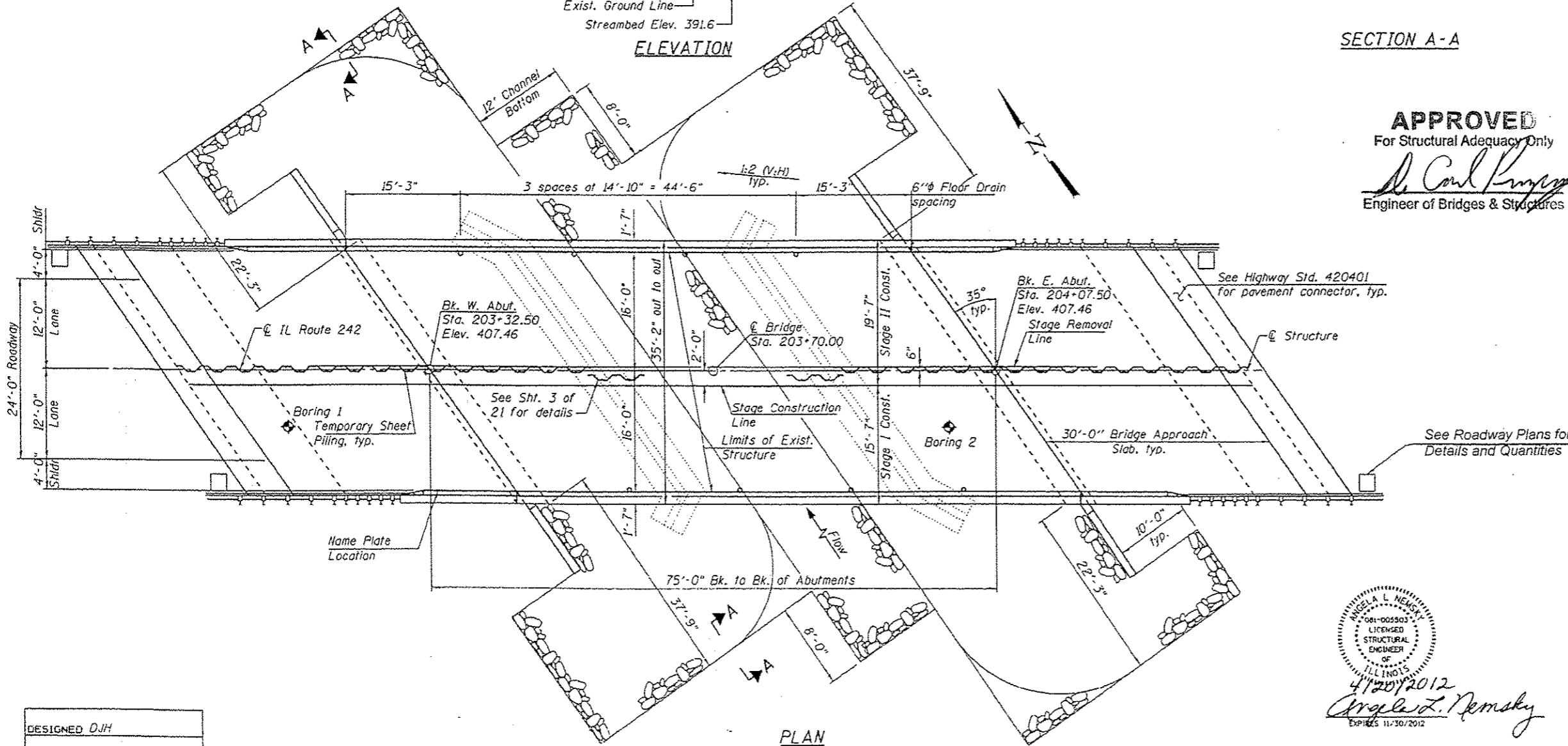
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA

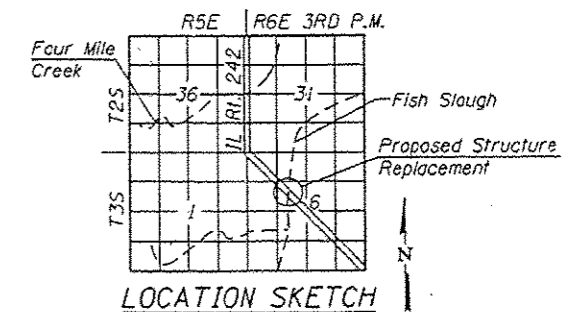
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.22 g
Design Spectral Acceleration at 0.2 sec. (S₀₅) = 0.61 g
Soil Site Class = C

APPROVED
For Structural Adequacy Only

De Carl Krupp
Engineer of Bridges & Structures



PLAN



GENERAL PLAN & ELEVATION
IL ROUTE 242 OVER FISH SLOUGH
F.A.P. RT. 776 SECTION (101B)B-1
WAYNE COUNTY
STATION 203+70.00
STRUCTURE NO. 096-0070

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

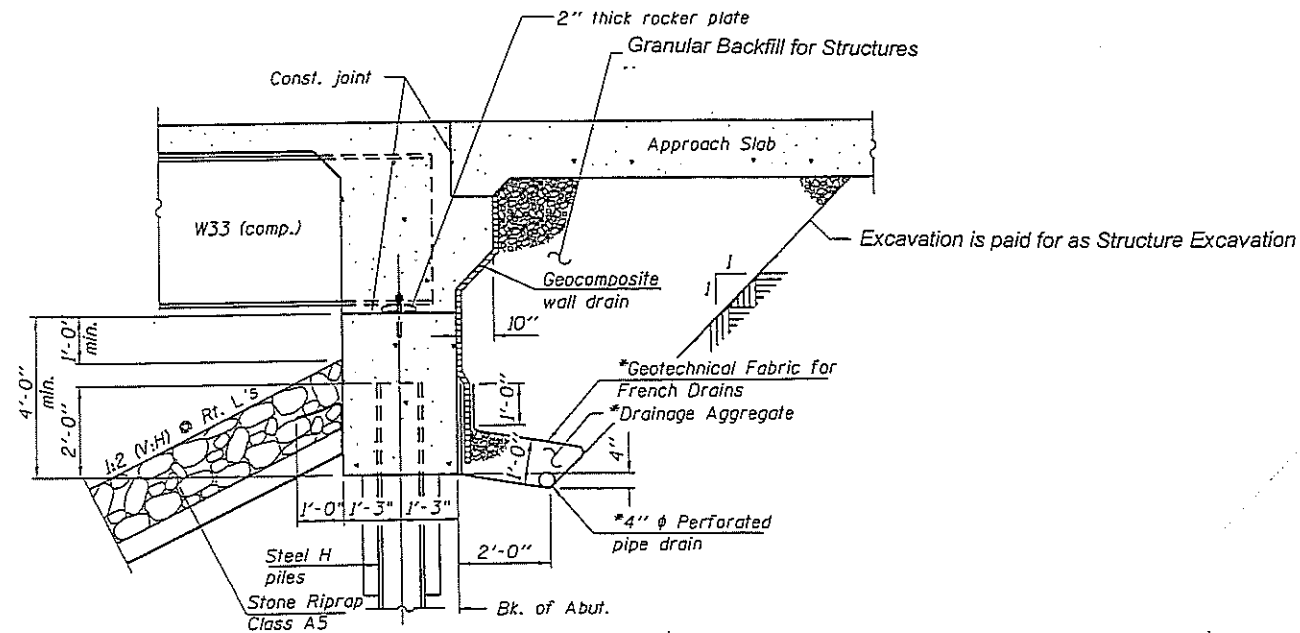
THOUVENOT,
WADE &
MOERCHEN, INC.
CORPORATE OFFICE
4940 Old Collinsville Road
Swansea, Illinois 62226
Tel: 618.624.4488
Fax: 618.624.6688
SWANSEA • WATERLOO • EDWARDSVILLE • CARBONDALE • ST. CHARLES



SHEET NO. 1
21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	26
CONTRACT NO. 74223			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

ANGELA L. NEMSKY
081-005503
LICENSED
STRUCTURAL
ENGINEER
OF
ILLINOIS
4/20/2012
ANGELA L. NEMSKY
EXPIRES 11/30/2012



SECTION THRU INTEGRAL ABUTMENT

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

*Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 60.1.05 of the Standard Specifications and Highway Standard 60.1.10).

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M64 Type 3 in unpainted areas. Bolts 3/4 in. φ, holes 13/16 in. φ, unless otherwise noted.

Calculated weight of Grade 50W Structural Steel = 60,070 lbs. All structural steel shall be cleaned as specified in Section 506 of the Standard Specifications. No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3-in. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the engineer.

Slipforming of the parapets is not allowed. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage 1 removal to ensure the remaining portion will not be prematurely damaged.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.	-	161	161
Stone Riprap, Class A5	Sq. Yd.	-	823	823
Filter Fabric	Sq. Yd.	-	973	973
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	204	204
Concrete Structures	Cu. Yd.	-	67.6	67.6
Concrete Superstructure	Cu. Yd.	210.3	-	210.3
Bridge Deck Grooving	Sq. Yd.	450	-	450
Concrete Encasement	Cu. Yd.	-	4.2	4.2
Protective Coat	Sq. Yd.	568	-	568
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	1062	-	1062
Reinforcement Bars, Epoxy Coated	Pound	47120	9580	56700
Bar Splicers	Each	452	96	548
Furnishing Steel Piles HP 10x42	Ft.	-	456	456
Driving Piles	Ft.	-	456	456
Name Plates	Each	1	-	1
Anchor Bolts, 1"	Each	-	24	24
Geocomposite Wall Drain	Sq. Yd.	-	92	92
Pipe Underdrains for Structures, 4"	Ft.	-	124	124
Temporary Sheet Piling	Sq. Ft.	-	1387	1387
Floor Drains	Each	8	-	8

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes and Total Bill of Material
- 3 Temporary Sheet Piling and Stage Construction Details
- 4-5 Top of Slab Elevations
- 6-7 Top of Slab Elevations Approach Slabs
- 8 Superstructure
- 9 Superstructure Details
- 10 Diaphragm Details
- 11-12 Bridge Approach Slab Details
- 13 Framing Plan
- 14 Structural Steel Details
- 15-16 Abutments
- 17 Steel Pile Details
- 18 Bar Splicer (Coupler) Details
- 19 Temporary Concrete Barrier
- 20-21 Boring Logs

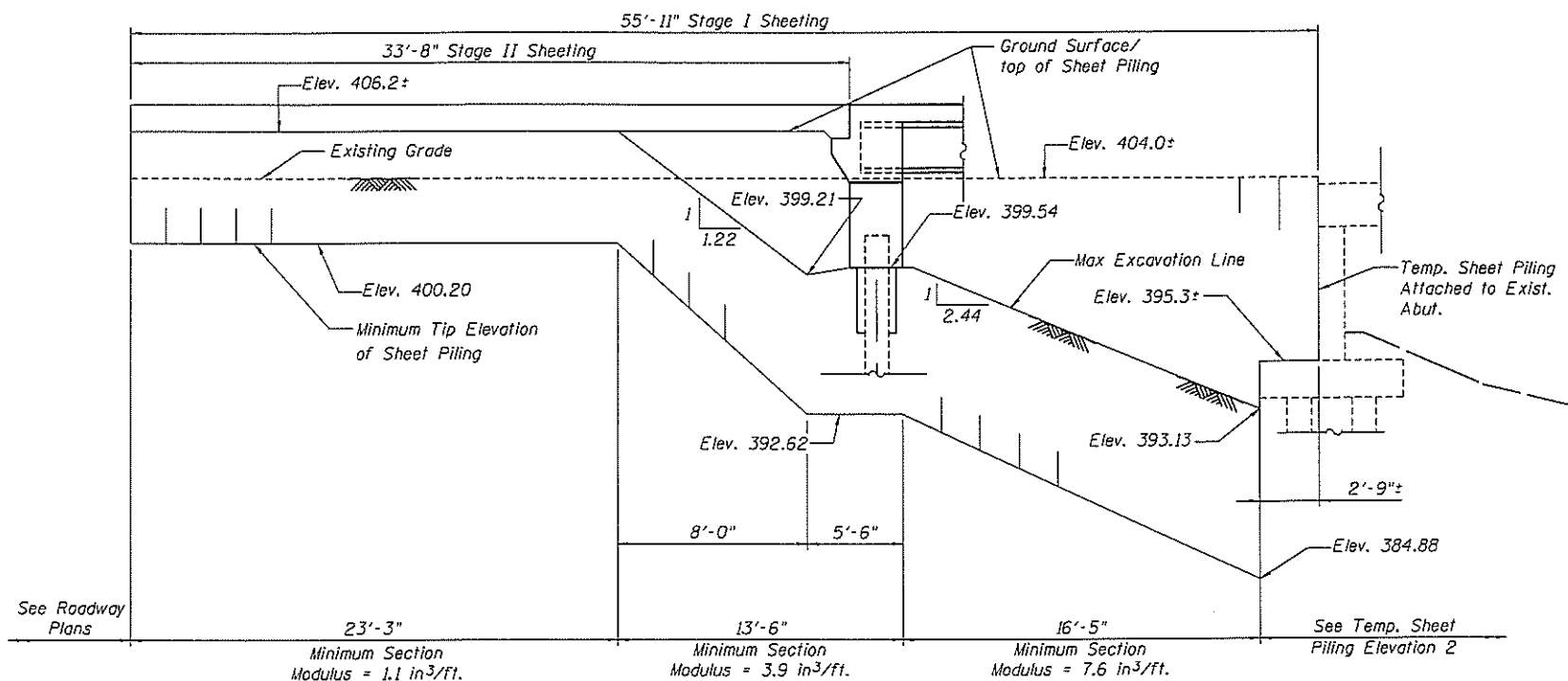
GENERAL NOTES AND TOTAL BILL OF MATERIAL STRUCTURE NO. 096-0070

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

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SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	776	(101B)-1	WAYNE	66	27
21 SHEETS	CONTRACT NO. 74223				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



TEMP. SHEET PILING ELEVATION 1

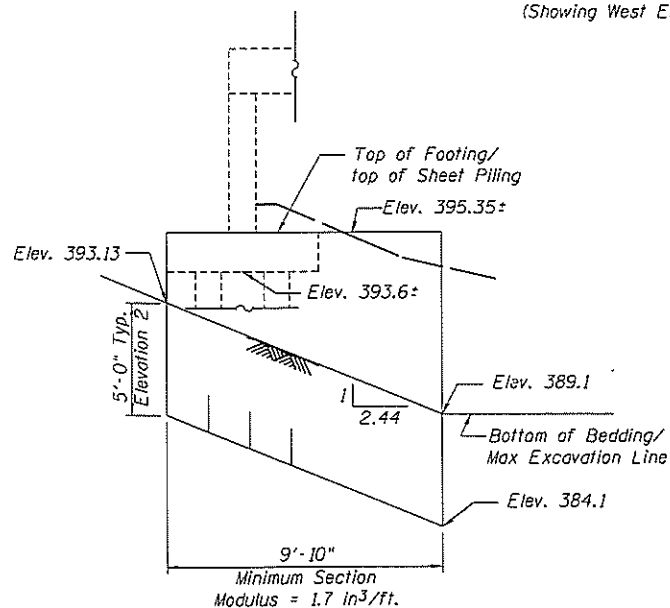
(Showing West End, East End Similar)

Notes:

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

The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the engineer and included in the cost of Temporary Sheet Piling.

For quantities of Temporary Concrete Barrier, see Roadway plans. All staging cross sections are looking east.

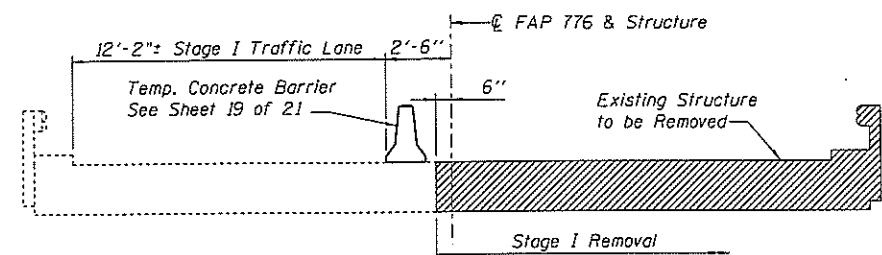


TEMP. SHEET PILING ELEVATION 2

(Showing West End, East End Similar)

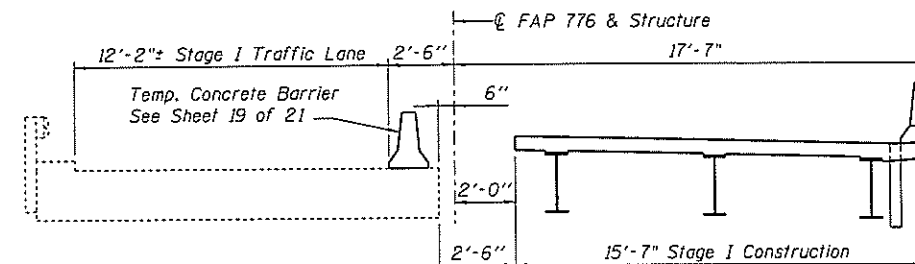
Prior to excavation to place stone riprap in Stage I, temporary Sheet Piling shall be driven along the existing abutment footings and shall extend into the channel as shown to insure the stability of the existing abutment during excavation and placement of the riprap. The Temporary Sheet Piling will remain in place until Stage II Removal.

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

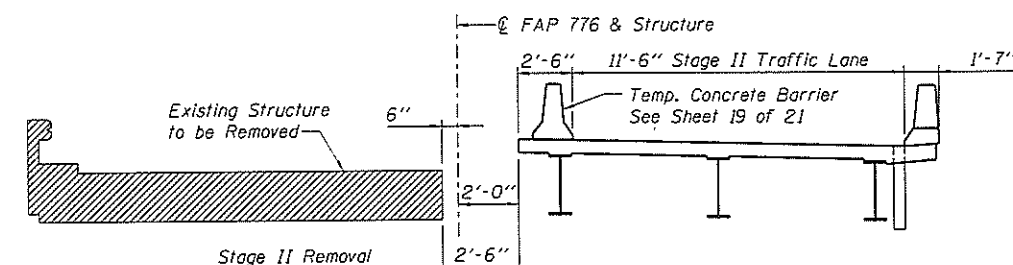


STAGE I REMOVAL

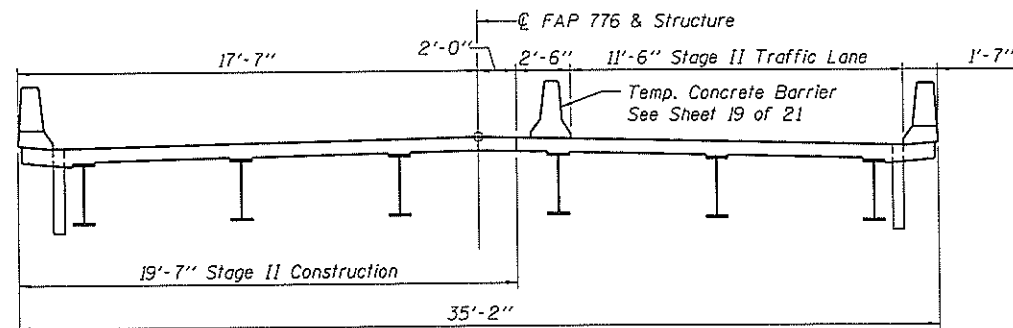
(All views Looking East)



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

TEMPORARY SHEET PILING AND STAGE CONSTRUCTION DETAILS STRUCTURE NO. 096-0070

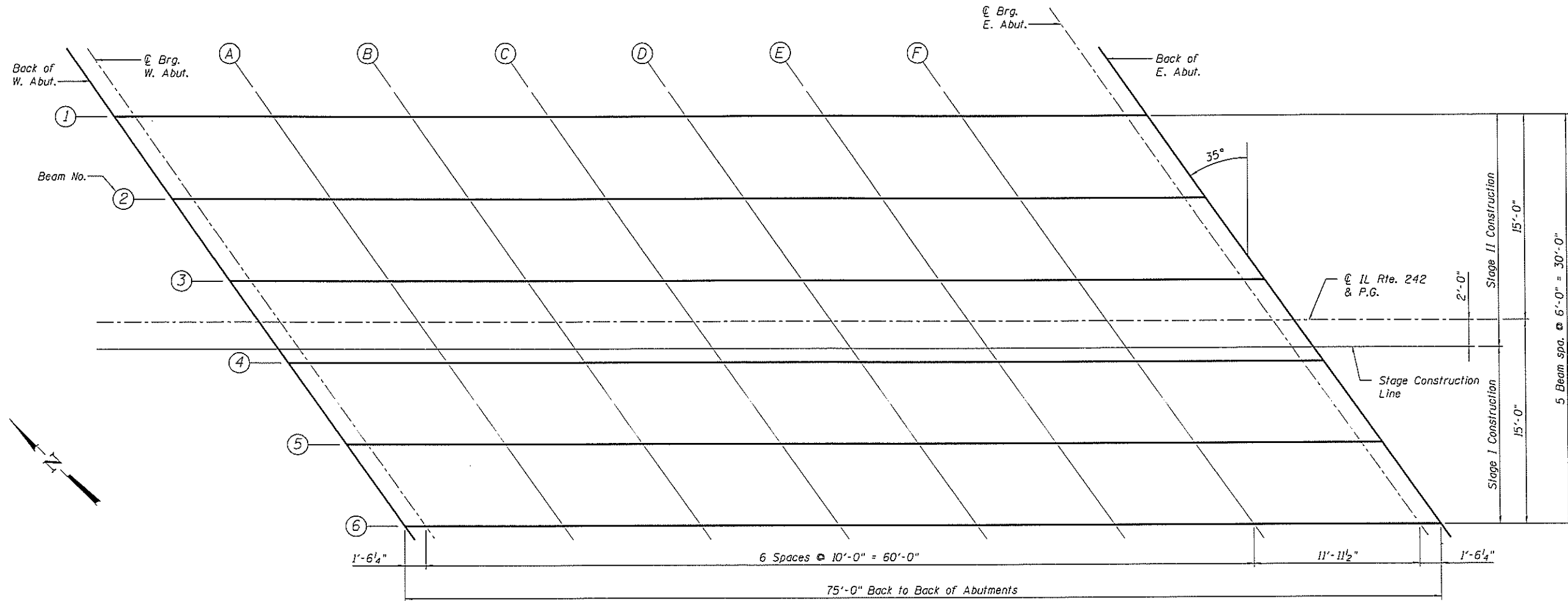
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SHEET NO. 3
 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	28
CONTRACT NO. 74223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 096-0070

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SHEET NO. 4
21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	29
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 74223				

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	203 + 22.00	-15.00	407.18	407.18
CL BRG W. ABUT.	203 + 23.52	-15.00	407.19	407.19
A	203 + 33.52	-15.00	407.21	407.28
B	203 + 43.52	-15.00	407.23	407.36
C	203 + 53.52	-15.00	407.24	407.41
D	203 + 63.52	-15.00	407.25	407.42
E	203 + 73.52	-15.00	407.25	407.39
F	203 + 83.52	-15.00	407.24	407.33
CL BRG. E. ABUT.	203 + 95.48	-15.00	407.23	407.23
BK. E. ABUT.	203 + 97.00	-15.00	407.23	407.23

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	203 + 26.20	-9.00	407.30	407.30
CL BRG W. ABUT.	203 + 27.72	-9.00	407.31	407.31
A	203 + 37.72	-9.00	407.33	407.40
B	203 + 47.72	-9.00	407.34	407.48
C	203 + 57.72	-9.00	407.35	407.52
D	203 + 67.72	-9.00	407.36	407.53
E	203 + 77.72	-9.00	407.35	407.50
F	203 + 87.72	-9.00	407.35	407.43
CL BRG. E. ABUT.	203 + 99.68	-9.00	407.33	407.33
BK. E. ABUT.	204 + 01.20	-9.00	407.33	407.33

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	203 + 30.40	-3.00	407.41	407.41
CL BRG W. ABUT.	203 + 31.92	-3.00	407.41	407.41
A	203 + 41.92	-3.00	407.43	407.50
B	203 + 51.92	-3.00	407.44	407.57
C	203 + 61.92	-3.00	407.45	407.62
D	203 + 71.92	-3.00	407.45	407.62
E	203 + 81.92	-3.00	407.45	407.59
F	203 + 91.92	-3.00	407.44	407.52
CL BRG. E. ABUT.	204 + 03.88	-3.00	407.42	407.42
BK. E. ABUT.	204 + 05.40	-3.00	407.41	407.41

CL RTE 242 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	203 + 32.50	0.00	407.46	407.46
CL BRG W. ABUT.	203 + 34.02	0.00	407.46	407.46
A	203 + 44.02	0.00	407.48	407.55
B	203 + 54.02	0.00	407.49	407.62
C	203 + 64.02	0.00	407.50	407.66
D	203 + 74.02	0.00	407.50	407.67
E	203 + 84.02	0.00	407.49	407.63
F	203 + 94.02	0.00	407.48	407.57
CL BRG. E. ABUT.	204 + 05.98	0.00	407.46	407.46
BK. E. ABUT.	204 + 07.50	0.00	407.46	407.46

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	203 + 33.90	2.00	407.43	407.43
CL BRG W. ABUT.	203 + 35.42	2.00	407.43	407.43
A	203 + 45.42	2.00	407.45	407.52
B	203 + 55.42	2.00	407.46	407.59
C	203 + 65.42	2.00	407.46	407.63
D	203 + 75.42	2.00	407.46	407.63
E	203 + 85.42	2.00	407.46	407.60
F	203 + 95.42	2.00	407.45	407.53
CL BRG. E. ABUT.	204 + 07.38	2.00	407.43	407.43
BK. E. ABUT.	204 + 08.90	2.00	407.42	407.42

BEAM 4

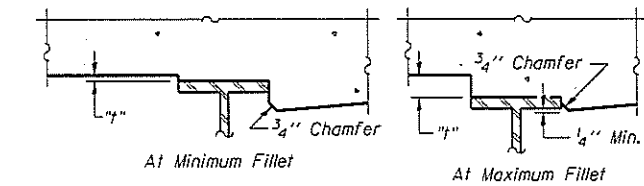
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	203 + 34.60	3.00	407.41	407.41
CL BRG W. ABUT.	203 + 36.12	3.00	407.42	407.42
A	203 + 46.12	3.00	407.43	407.51
B	203 + 56.12	3.00	407.44	407.58
C	203 + 66.12	3.00	407.45	407.62
D	203 + 76.12	3.00	407.45	407.62
E	203 + 86.12	3.00	407.44	407.58
F	203 + 96.12	3.00	407.43	407.52
CL BRG. E. ABUT.	204 + 08.08	3.00	407.41	407.41
BK. E. ABUT.	204 + 09.60	3.00	407.41	407.41

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	203 + 38.80	9.00	407.33	407.33
CL BRG W. ABUT.	203 + 40.32	9.00	407.33	407.33
A	203 + 50.32	9.00	407.34	407.42
B	203 + 60.32	9.00	407.35	407.49
C	203 + 70.32	9.00	407.36	407.52
D	203 + 80.32	9.00	407.35	407.52
E	203 + 90.32	9.00	407.34	407.49
F	204 + 00.32	9.00	407.33	407.42
CL BRG. E. ABUT.	204 + 12.28	9.00	407.31	407.31
BK. E. ABUT.	204 + 13.80	9.00	407.30	407.30

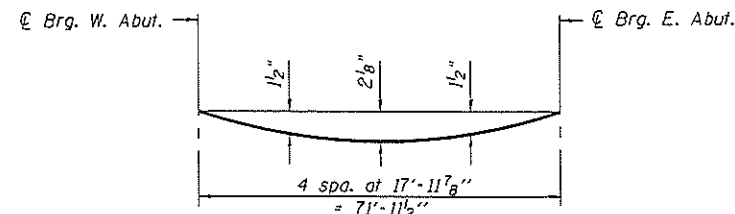
BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	203 + 43.00	15.00	407.23	407.23
CL BRG W. ABUT.	203 + 44.52	15.00	407.23	407.23
A	203 + 54.52	15.00	407.24	407.31
B	203 + 64.52	15.00	407.25	407.38
C	203 + 74.52	15.00	407.25	407.41
D	203 + 84.52	15.00	407.24	407.41
E	203 + 94.52	15.00	407.23	407.37
F	204 + 04.52	15.00	407.21	407.30
CL BRG. E. ABUT.	204 + 16.48	15.00	407.19	407.19
BK. E. ABUT.	204 + 18.00	15.00	407.18	407.18



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

FILLET HEIGHTS



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 below.

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

E-S 11-1-09

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SHEET NO. 5	F.A.P. RTE. 776	SECTION (101B)-1	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 30
21 SHEETS	CONTRACT NO. 74223		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	202 + 91.30	-16.00	407.05
A1	203 + 01.30	-16.00	407.09
A2	203 + 11.30	-16.00	407.13
E. End West Appr.	203 + 21.30	-16.00	407.16

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	202 + 94.10	-12.00	407.15
A1	203 + 04.10	-12.00	407.19
A2	203 + 14.10	-12.00	407.22
E. End West Appr.	203 + 24.10	-12.00	407.25

IL RTE. 242 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	203 + 02.50	0.00	407.37
A1	203 + 12.50	0.00	407.40
A2	203 + 22.50	0.00	407.43
E. End West Appr.	203 + 32.50	0.00	407.46

STAGE CONSTRUCTION LINE

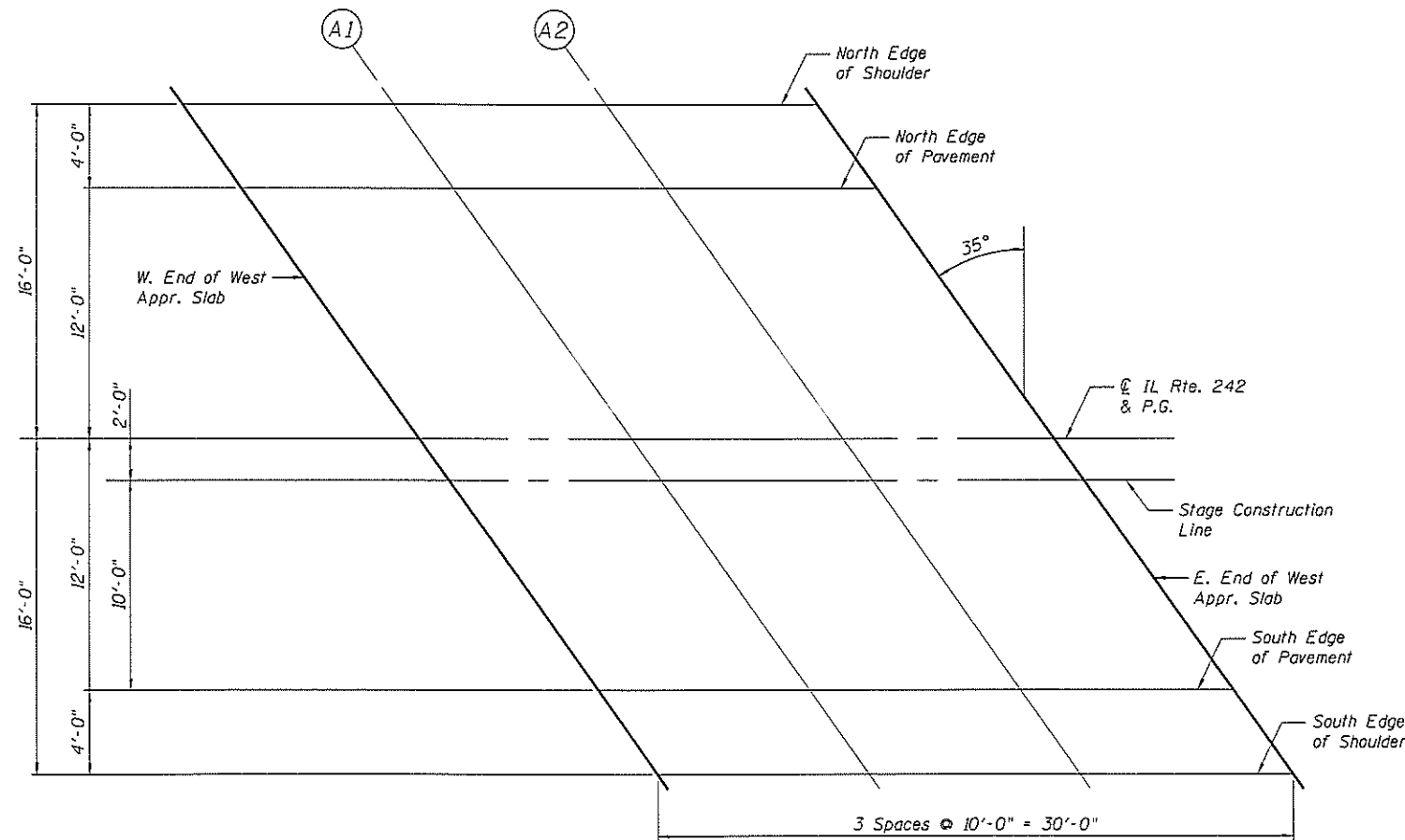
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	203 + 03.90	2.00	407.34
A1	203 + 13.90	2.00	407.38
A2	203 + 23.90	2.00	407.41
E. End West Appr.	203 + 33.90	2.00	407.43

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	203 + 10.90	12.00	407.21
A1	203 + 20.90	12.00	407.24
A2	203 + 30.90	12.00	407.27
E. End West Appr.	203 + 40.90	12.00	407.29

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr.	203 + 13.70	16.00	407.14
A1	203 + 23.70	16.00	407.17
A2	203 + 33.70	16.00	407.19
E. End West Appr.	203 + 43.70	16.00	407.21



PLAN
West Approach

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

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SHEET NO. 6
21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	31
CONTRACT NO. 74223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TOP OF WEST APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 096-0070**

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	203 + 96.30	-16.00	407.21
A3	204 + 06.30	-16.00	407.19
A4	204 + 16.30	-16.00	407.17
E. End East Appr.	204 + 26.30	-16.00	407.14

NORTH EDGE OF PAVEMENT

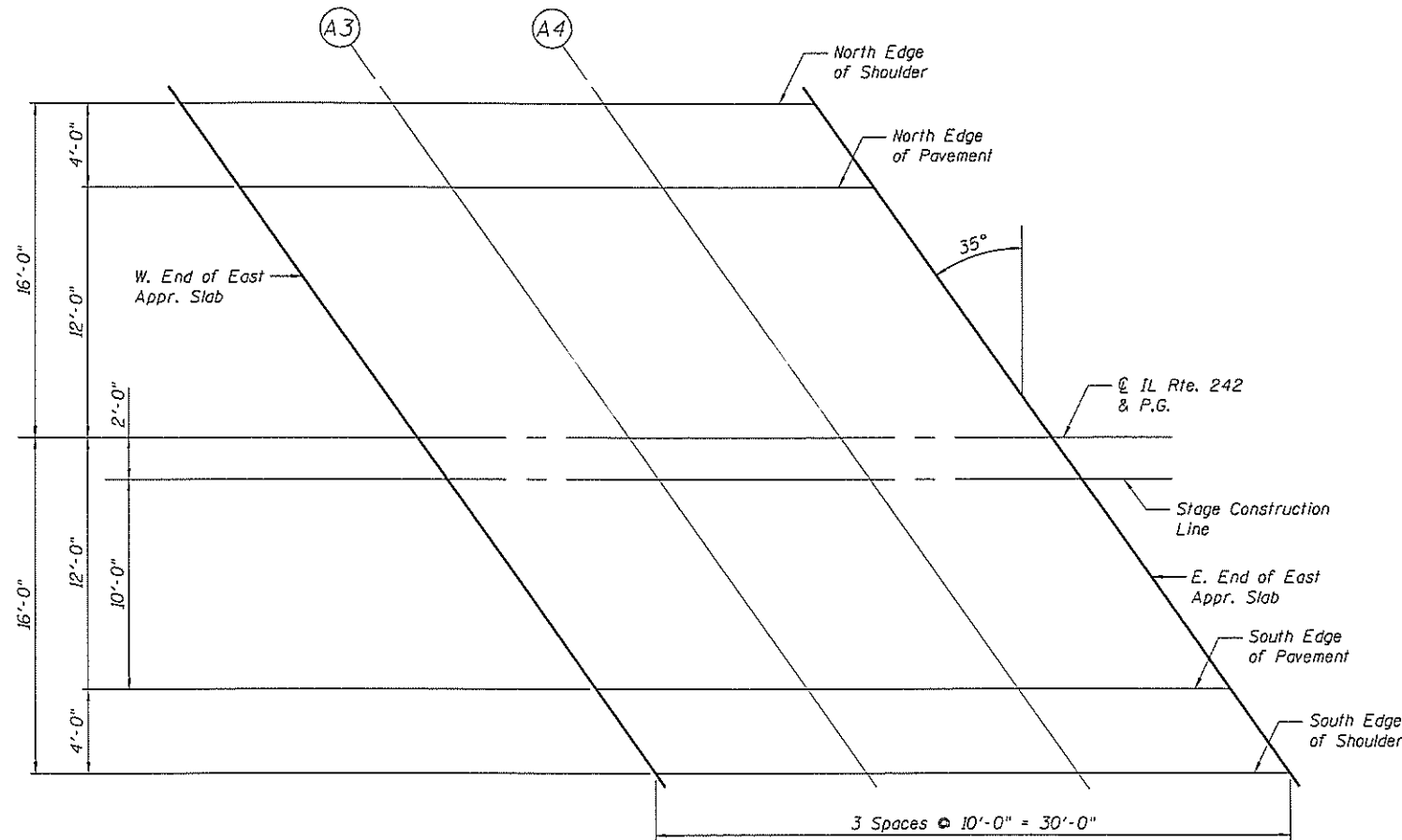
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	203 + 99.10	-12.00	407.29
A3	204 + 09.10	-12.00	407.27
A4	204 + 19.10	-12.00	407.24
E. End East Appr.	204 + 29.10	-12.00	407.21

CL IL RTE. 242 & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	204 + 07.50	0.00	407.46
A3	204 + 17.50	0.00	407.43
A4	204 + 27.50	0.00	407.40
E. End East Appr.	204 + 37.50	0.00	407.37

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	204 + 08.90	2.00	407.42
A3	204 + 18.90	2.00	407.40
A4	204 + 28.90	2.00	407.37
E. End East Appr.	204 + 38.90	2.00	407.33



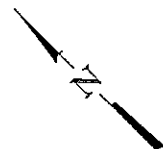
SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	204 + 15.90	12.00	407.25
A3	204 + 25.90	12.00	407.22
A4	204 + 35.90	12.00	407.19
E. End East Appr.	204 + 45.90	12.00	407.15

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr.	204 + 18.70	16.00	407.16
A3	204 + 28.70	16.00	407.13
A4	204 + 38.70	16.00	407.09
E. End East Appr.	204 + 48.70	16.00	407.05

PLAN
East Approach



DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

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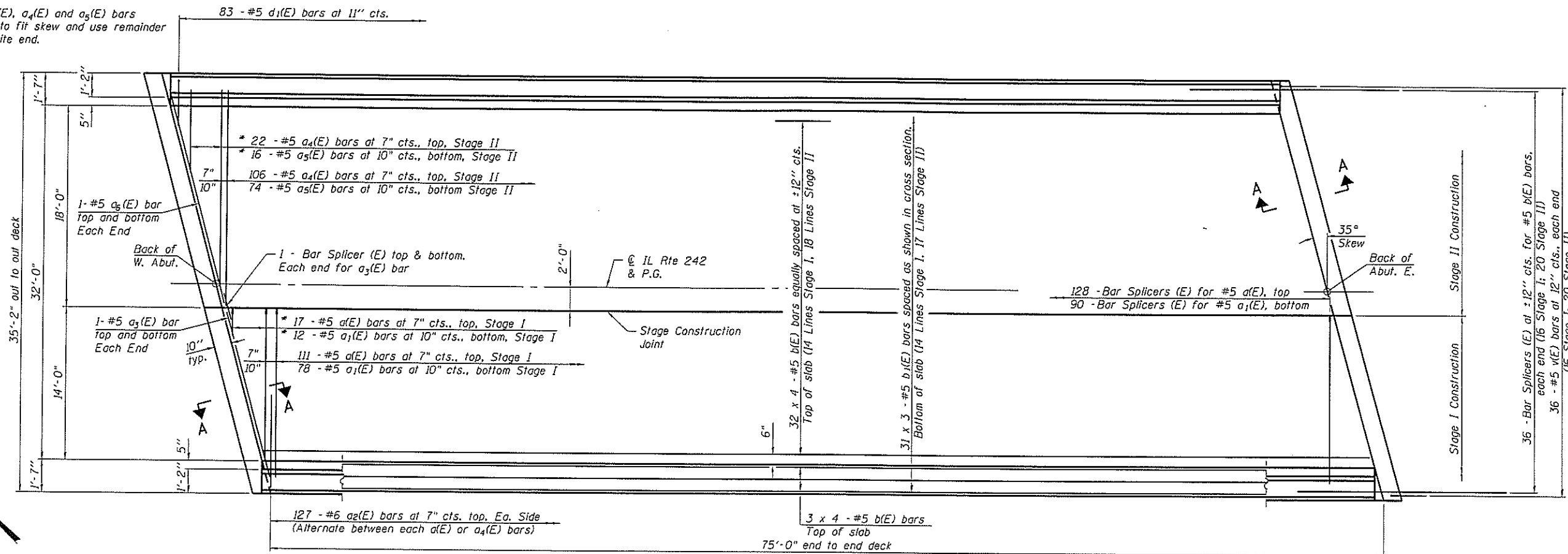


SHEET NO. 7
21 SHEETS

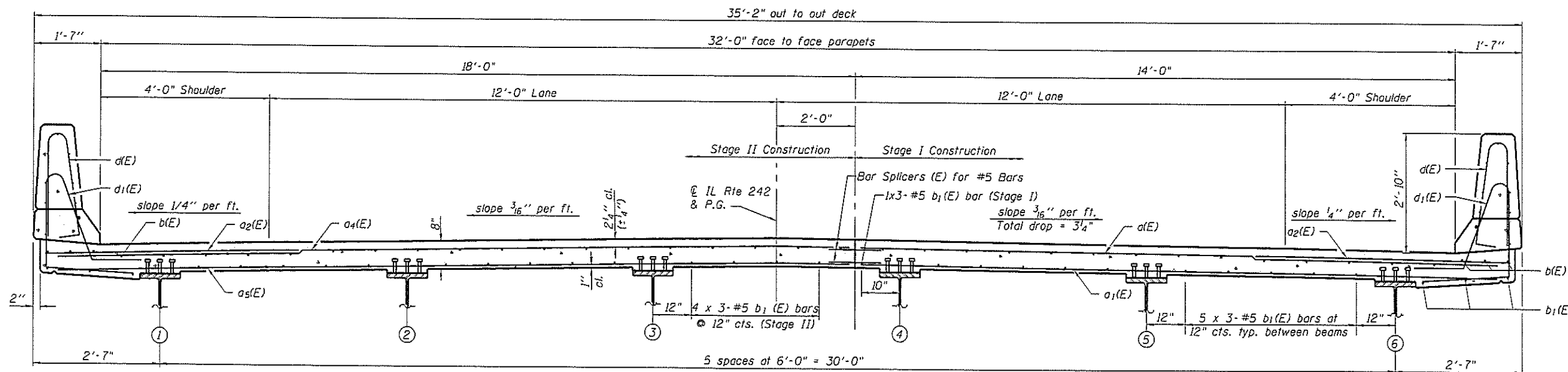
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	32
CONTRACT NO. 74223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TOP OF EAST APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 096-0070**

* Order $a_1(E)$, $a_2(E)$, $a_3(E)$ and $a_4(E)$ bars full length. Cut to fit skew and use remainder of bars in opposite end.



PLAN



CROSS SECTION
(Looking East)

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

Notes:
See Sheet 9 of 21 for superstructure details and Sheet 2 of 21 for Bill of Material.
Bars indicated thus 31 x 3-#5 etc. indicates 31 lines of bars with 3 lengths per line.
See Sheet 9 of 21 for parapet reinforcement.
See Sheet 1 of 21 for deck drain locations.

MINIMUM BAR LAP
(Deck)
#5 bar = 3'-3"

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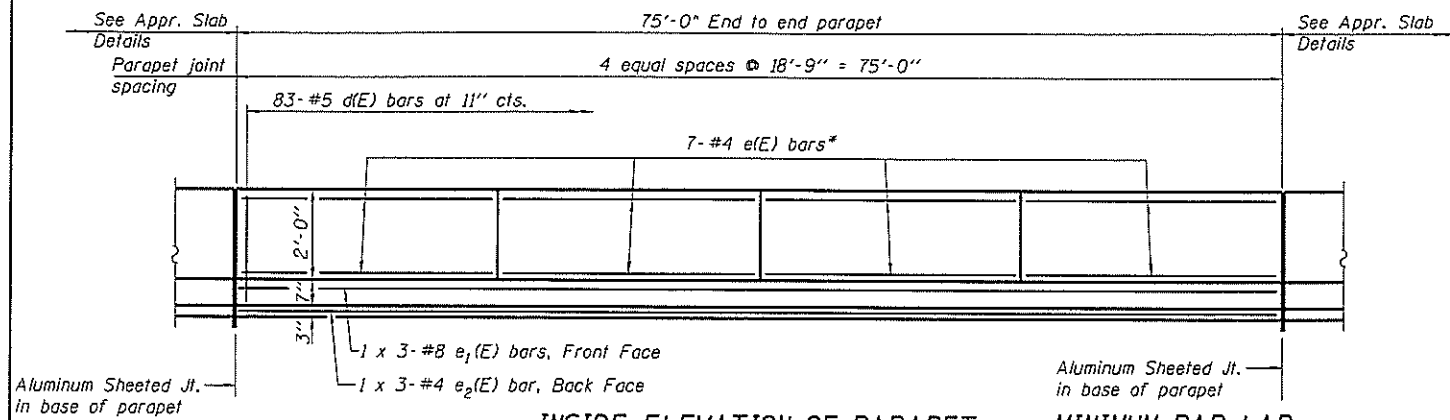
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SHEET NO. 8
21 SHEETS

F.A.P. RTE. 776	SECTION (101B)B-1	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 33
CONTRACT NO. 74223		ILLINOIS FED. AID PROJECT		

SUPERSTRUCTURE
STRUCTURE NO. 096-0070



INSIDE ELEVATION OF PARAPET

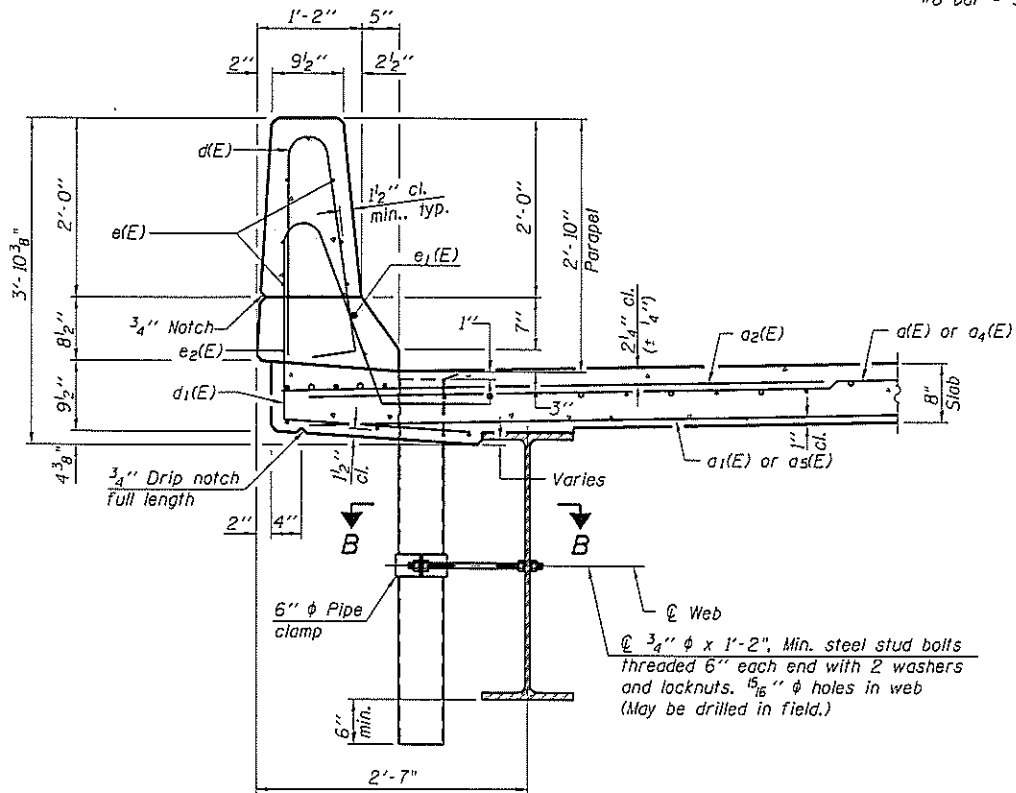
*See Section Thru Parapet

MINIMUM BAR LAP

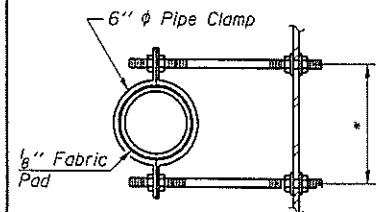
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"

Aluminum Sheeted Jt. in base of parapet

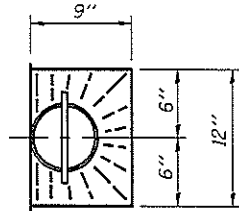
Aluminum Sheeted Jt. in base of parapet



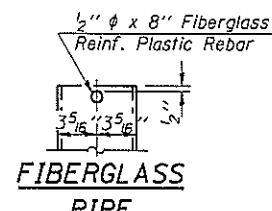
SECTION THRU PARAPET



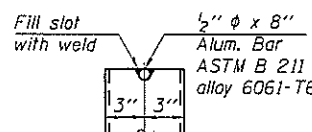
SECTION B-B
*Dimension as required by Pipe Clamp



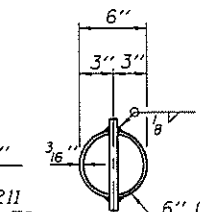
TOP PLAN



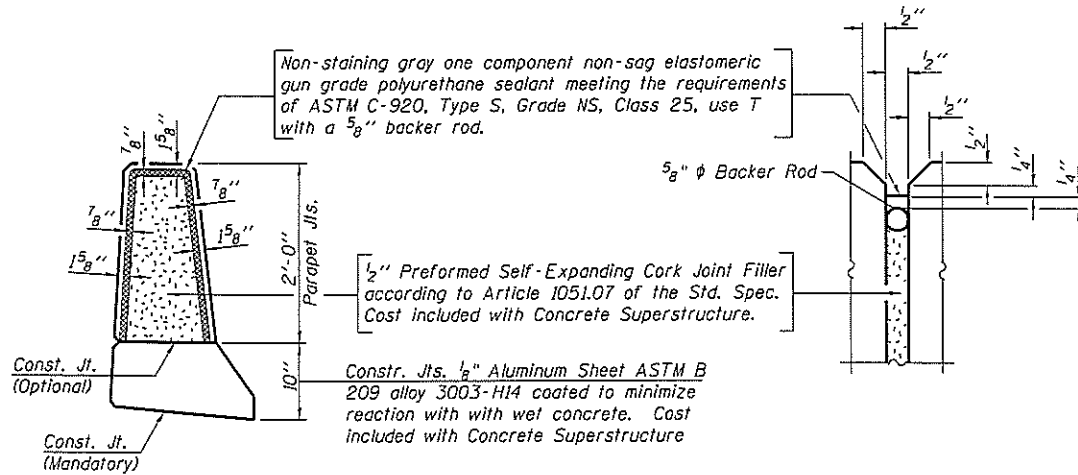
FIBERGLASS PIPE



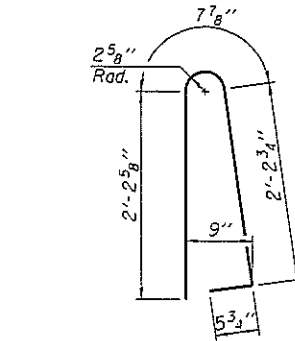
ALUMINUM TUBE



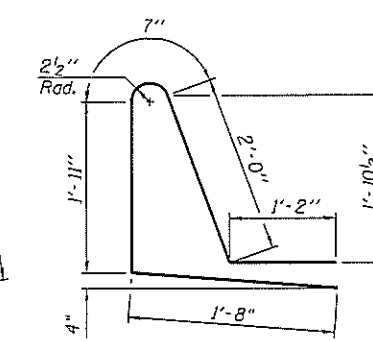
TOP PLAN (Showing Aluminum Tube)



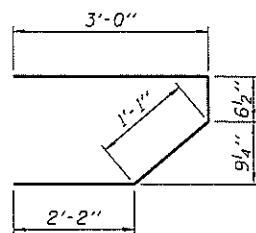
PARAPET JOINT DETAILS



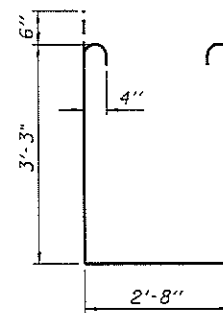
BAR d(E)



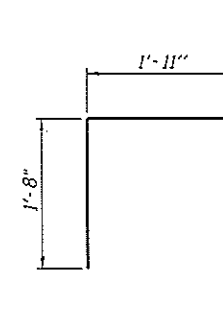
BAR d1(E)



BAR s(E)



BAR s1(E)



BAR v(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	128	#5	15'-1"	—
a1(E)	90	#5	15'-1"	—
a2(E)	254	#6	6'-6"	—
a3(E)	4	#5	18'-6"	—
a4(E)	128	#5	19'-1"	—
a5(E)	90	#5	19'-1"	—
a6(E)	4	#5	23'-4"	—
b(E)	152	#5	21'-2"	—
b1(E)	93	#5	27'-1"	—
d1(E)	166	#5	5'-7"	—
d1(E)	166	#5	7'-4"	—
e(E)	56	#4	18'-5"	—
e1(E)	6	#8	28'-4"	—
e2(E)	6	#4	26'-3"	—
m(E)	10	#6	18'-8"	—
m1(E)	12	#6	8'-3"	—
m2(E)	8	#6	6'-11"	—
m3(E)	4	#6	2'-10"	—
m4(E)	10	#6	23'-7"	—
m5(E)	12	#6	10'-1"	—
m6(E)	2	#6	5'-8"	—
s(E)	72	#5	6'-10"	—
s1(E)	62	#4	10'-4"	—
v(E)	72	#5	3'-7"	—
Reinforcement Bars, Epoxy Coated		Pound		22190
Concrete Superstructure		Cu. Yds.		112.5

Bars indicated thus 1 x 3 - #4 etc. indicates 1 line of bars with 3 lengths per line.

Notes:
Floor drains need not be painted.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 096-0070**

DESIGNED	DJH
CHECKED	ALN
DRAWN	DJH
CHECKED	ALN

S-I-D

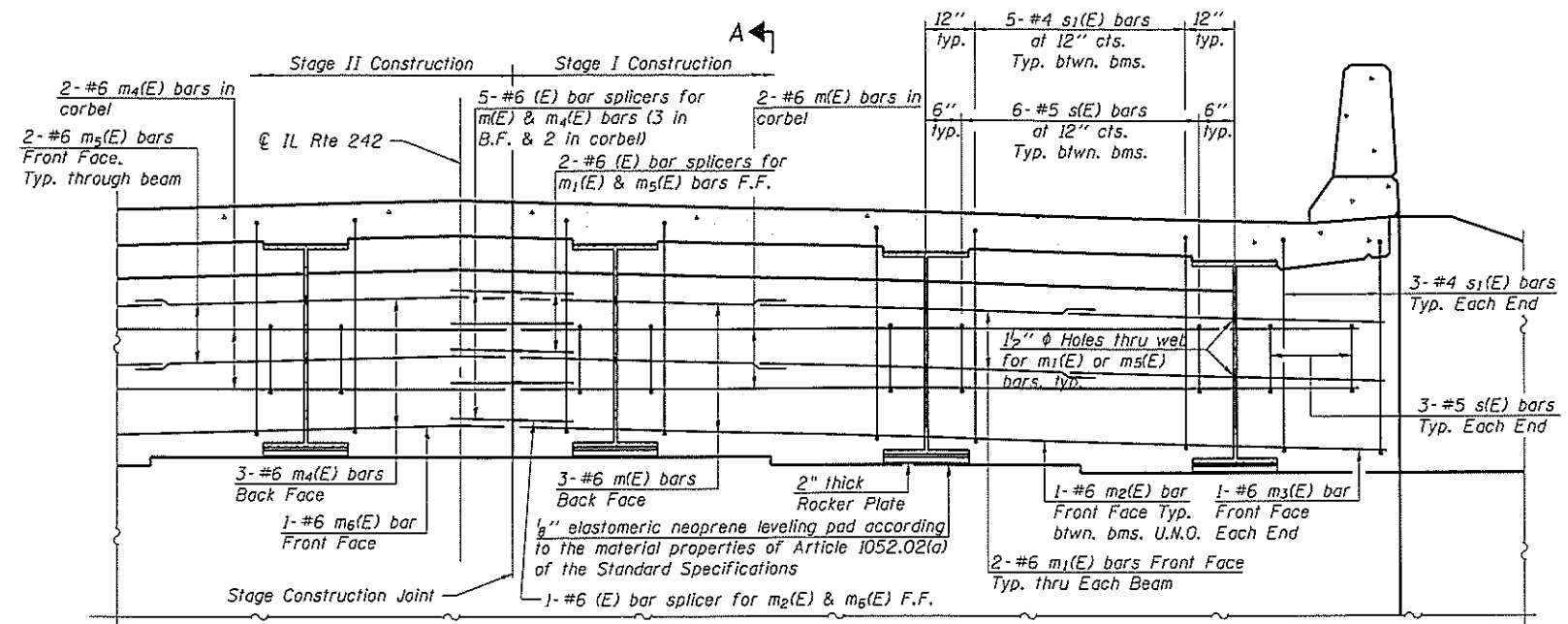
11-1-09

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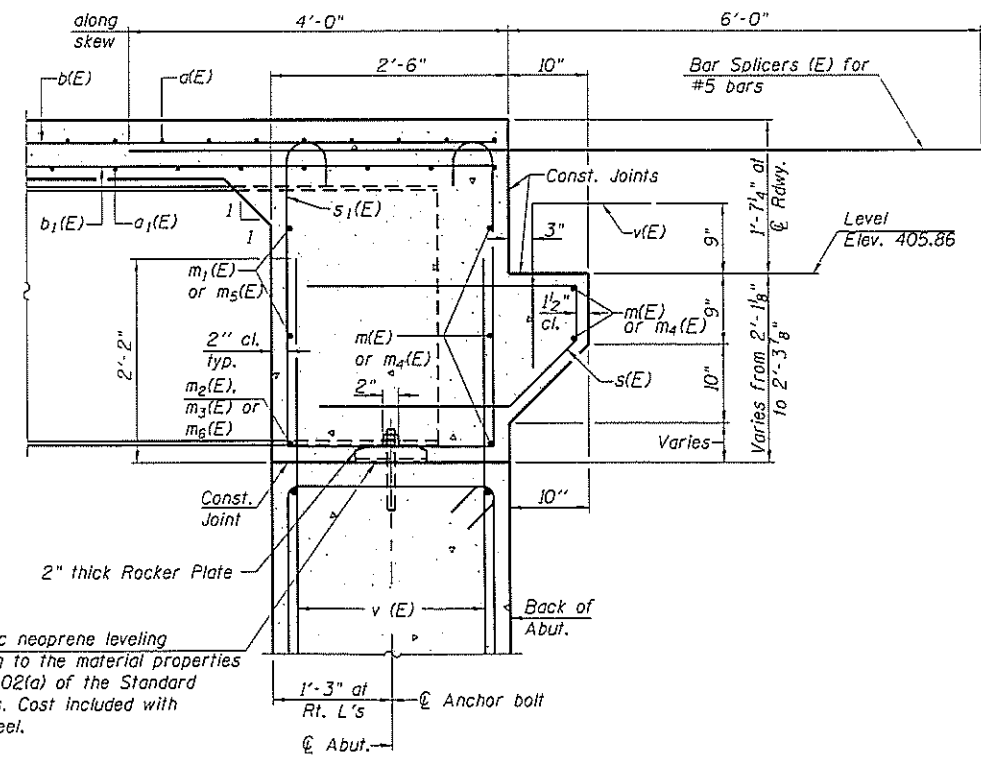


SHEET NO. 9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
21 SHEETS	776	(10 B)B-1	WAYNE	66	34
			CONTRACT NO. 74223		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



DIAPHRAGM ELEVATION AT ABUTMENT

(Showing east abutment, looking east. West abutment similar)



SECTION A-A

Dimensions at right angles to abutment, except as shown.

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 21.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 21.
 For details of bars s(E) & s₁(E) see sheet 9 of 21.
 The s(E) and s₁(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP
 #6 bar = 3'-4"

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

SI-DSI 11-1-09

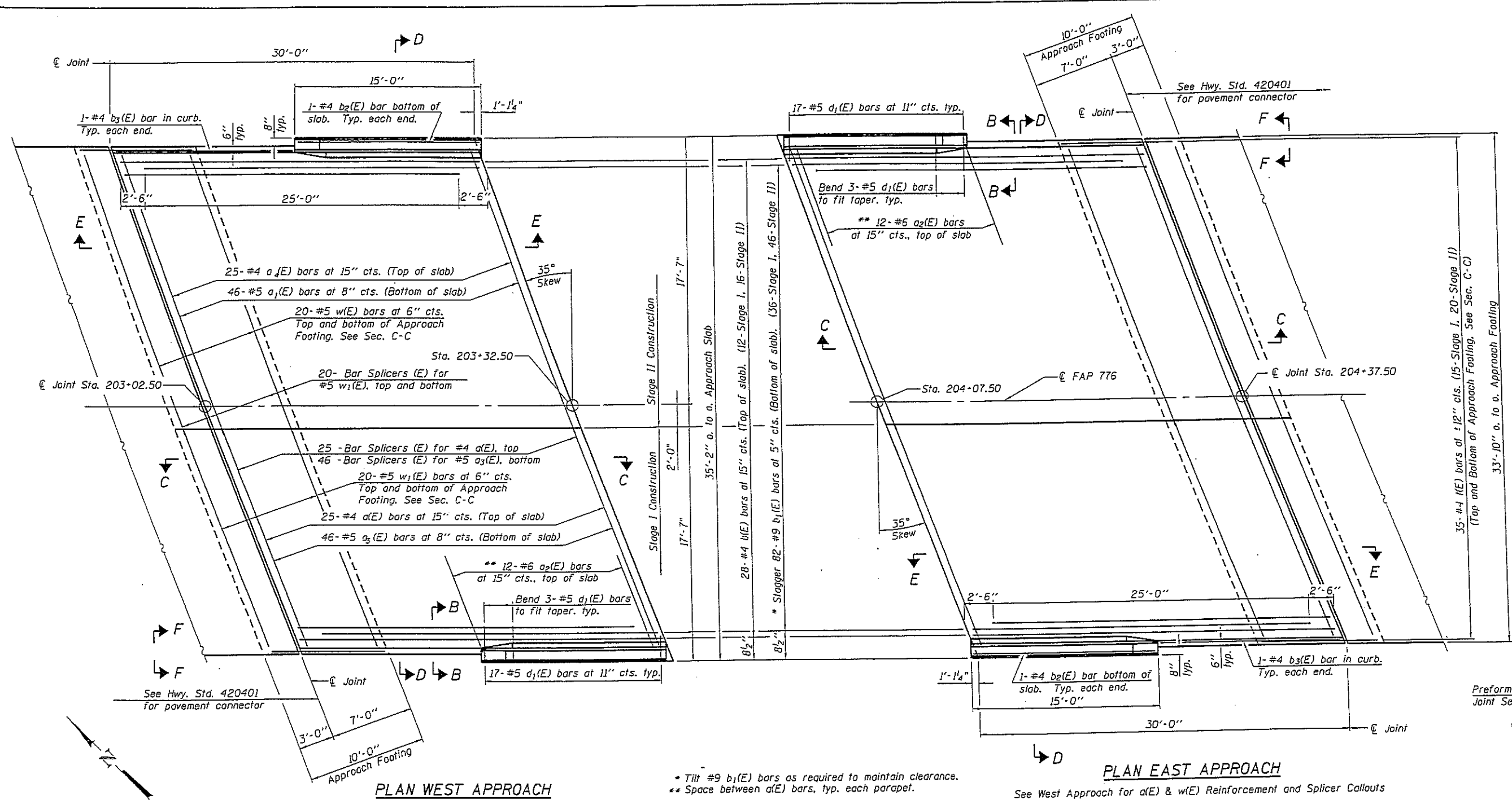
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SHEET NO. 10
 21 SHEETS

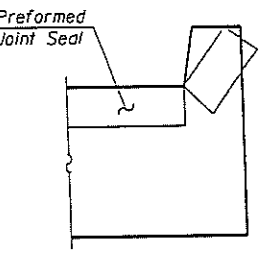
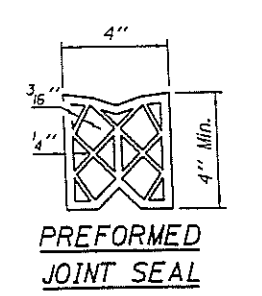
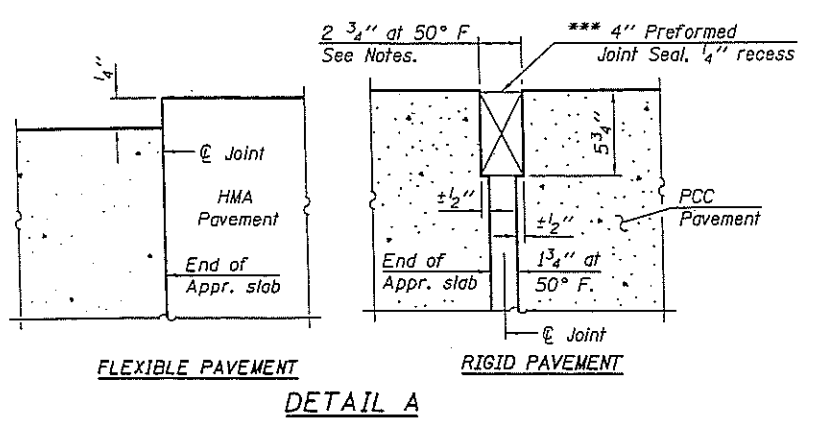
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	35
CONTRACT NO. 74223				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**INTEGRAL ABUTMENT
 DIAPHRAGM DETAILS
 STRUCTURE NO. 096-0070**



* Tilt #9 b1(E) bars as required to maintain clearance.
 ** Space between a(E) bars, typ. each parapet.

See West Approach for a(E) & w(E) Reinforcement and Splicer Callouts



Notes:
 See sheet 12 of 21 for Sections C-C & D-D and Views B-B & E-E.
 a1(E), a3(E) and a4(E) bar spacings measured along @ Rdwy.

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

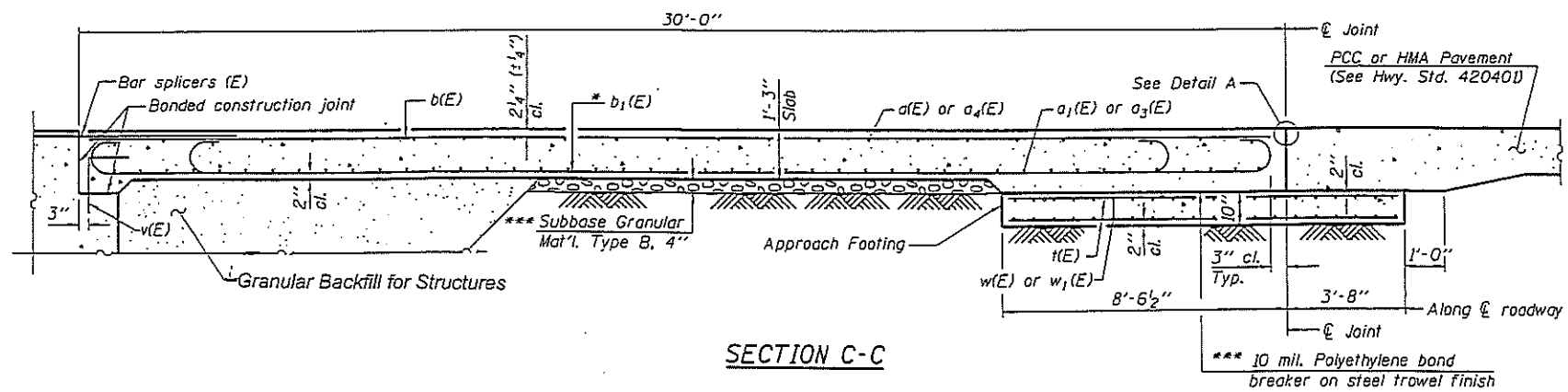
*** Cost included with Concrete Superstructure.

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SHEET NO. 11 21 SHEETS	F.A.P. RTE. 776	SECTION (101818-1)	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 36
	CONTRACT NO. 74223			ILLINOIS FED. AID PROJECT	

(Sheet 1 of 2)
APPROACH SLAB DETAILS
 STRUCTURE NO. 096-0070

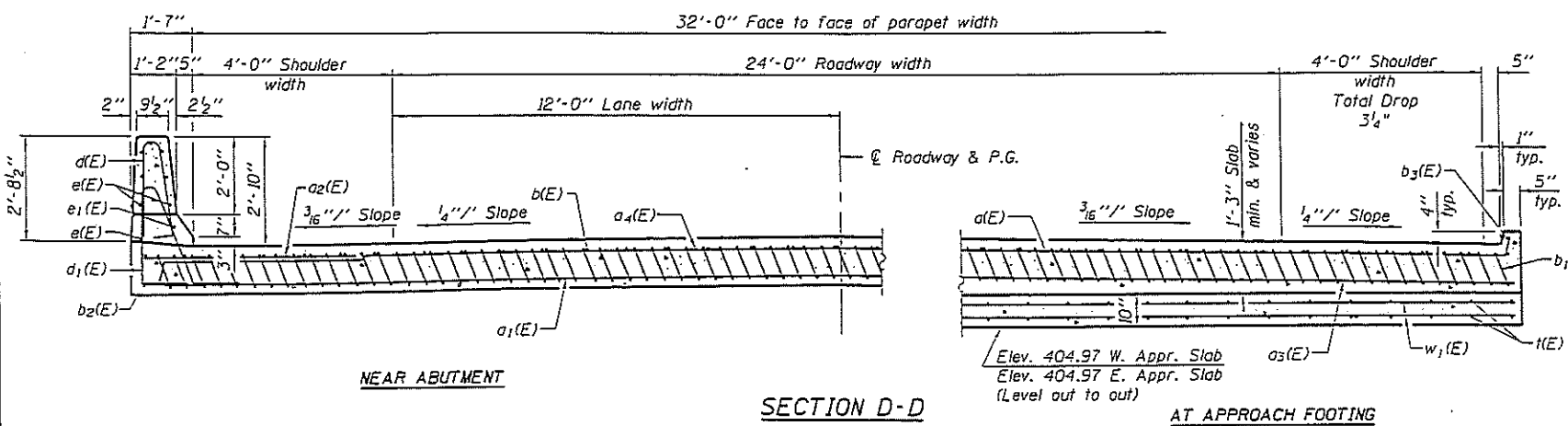


SECTION C-C

* Till #9 b₁(E) bars as required to maintain clearance.
 *** Cast included with Concrete Superstructure.

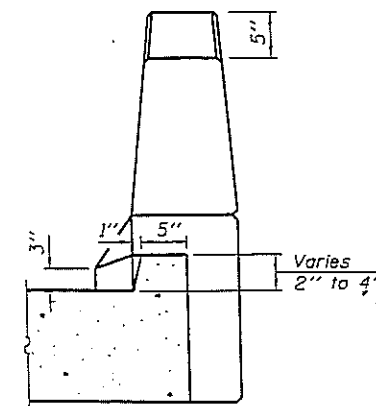
Notes:

See sheet 11 of 21 for Detail A and location of View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 9 & 10 of 21.
 The approach footing maximum applied service bearing pressure (O_{max}) = 2.0 ksf.
 For bar splicer details, see sheet 18 of 21.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 21.
 For additional parapet details, see sheet 9 of 21.



SECTION D-D

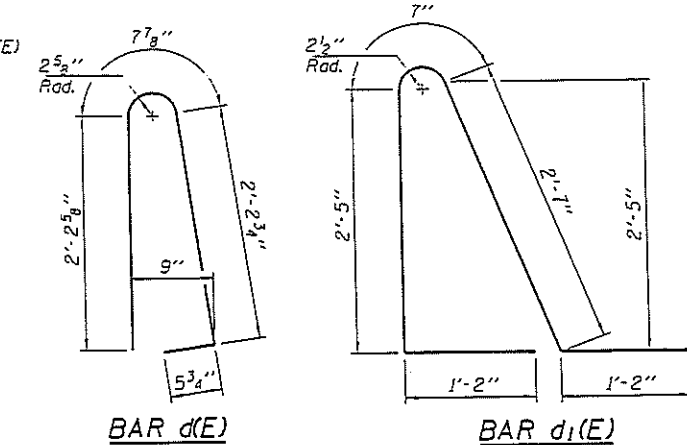
(See Plan for dimensions not shown, Stage Construction Joint not shown)



VIEW B-B

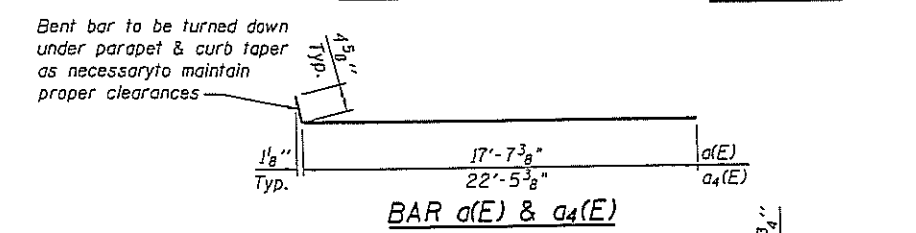
TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	50	#4	18'-0"	—
a ₁ (E)	92	#5	22'-8"	—
a ₂ (E)	48	#6	6'-6"	—
a ₃ (E)	92	#5	17'-10"	—
a ₄ (E)	50	#4	22'-10"	—
b(E)	56	#4	29'-8"	—
b ₁ (E)	164	#9	29'-9"	—
b ₂ (E)	4	#4	14'-8"	—
b ₃ (E)	4	#4	14'-7"	—
d(E)	68	#5	5'-7"	—
d ₁ (E)	68	#5	7'-11"	—
e(E)	32	#4	14'-8"	—
e ₁ (E)	4	#8	14'-8"	—
l(E)	140	#4	11'-9"	—
w(E)	80	#5	22'-8"	—
w ₁ (E)	80	#5	17'-11"	—
Concrete Superstructure			Cu. Yd.	97.8
Concrete Structures			Cu. Yd.	25.6
Reinforcement Bars, Epoxy Coated			Pound	29,410

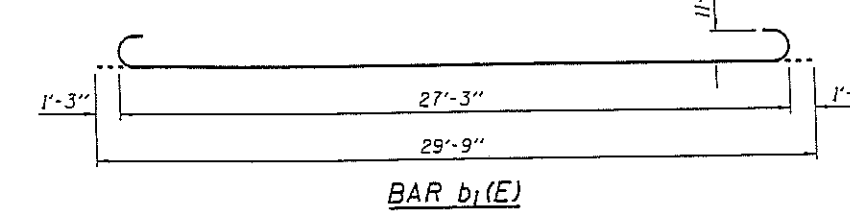


BAR d(E)

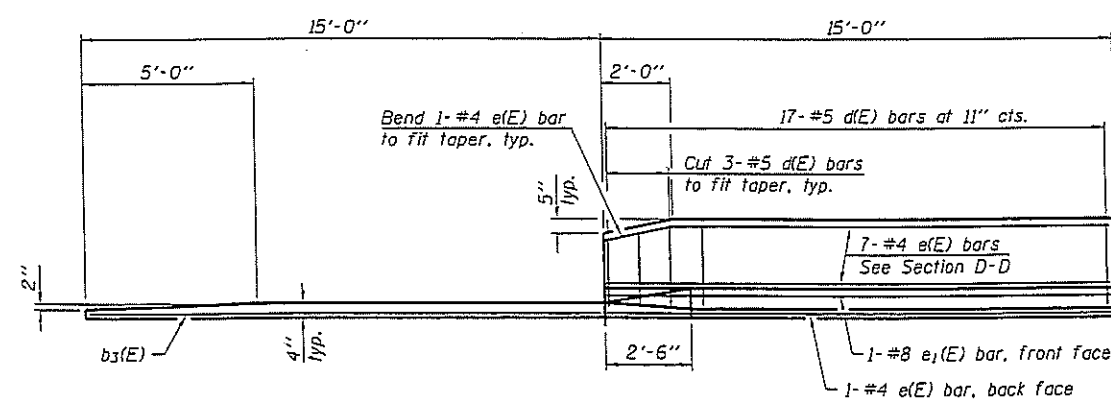
BAR d₁(E)



BAR a(E) & a₄(E)



BAR b₁(E)



VIEW E-E

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

BA-R 11-1-09

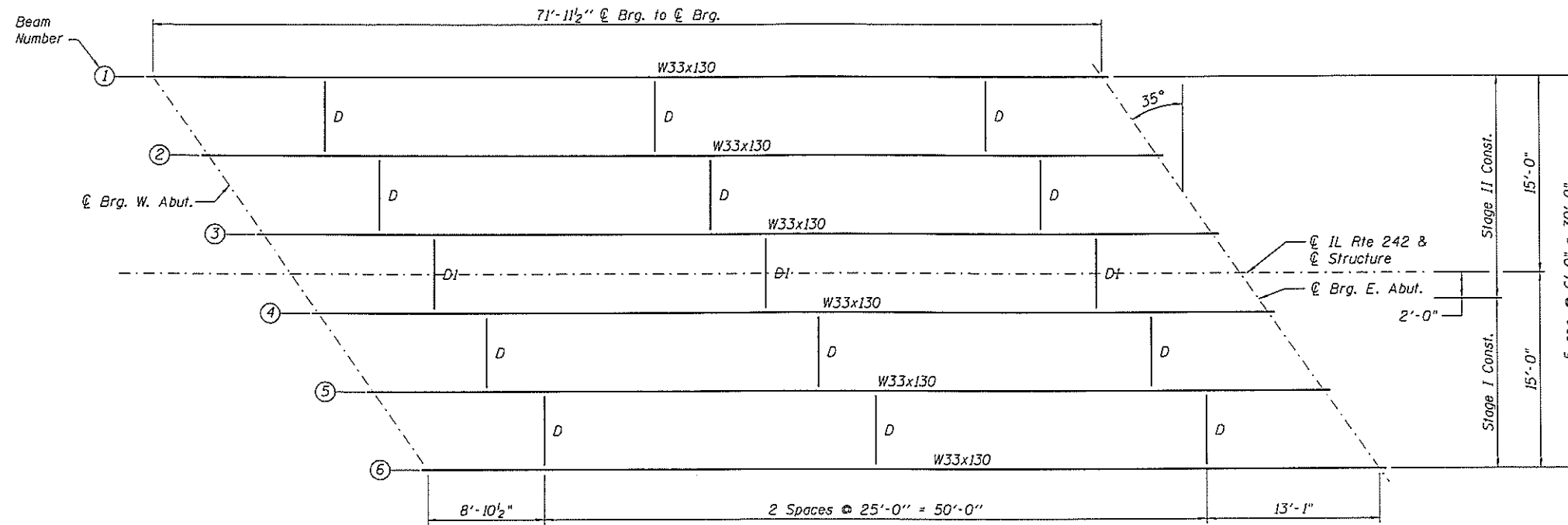
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SHEET NO. 12
 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101.5)B-1	WAYNE	66	37
CONTRACT NO. 74223				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

(Sheet 2 of 2)
 APPROACH SLAB DETAILS
 STRUCTURE NO. 096-0070



FRAMING PLAN

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in^4 and in^3).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in^4 and in^3).

$I_c(3n), S_c(3n)$: 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-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in^4 and in^3).

DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 M_{ℓ · IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ · IM}$
 $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
 $\phi_r M_{nc}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).
 f_s (Service II): Sum of stresses as computed from the moments below (ksi).
 $M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_{ℓ · IM}$
 f_s (TotalStrength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ · IM}$
 V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

INTERIOR GIRDER MOMENT TABLE		0.5 Span
I_s	(in^4)	6710
$I_c(n)$	(in^4)	17170
$I_c(3n)$	(in^4)	12610
S_s	(in^3)	406
$S_c(n)$	(in^3)	583
$S_c(3n)$	(in^3)	528
DC1	(k/ft)	0.762
M _{DC1}	(k)	493
DC2	(k/ft)	0.150
M _{DC2}	(k)	97
DW	(k/ft)	0.267
M _{DW}	(k)	173
$M_{ℓ · IM}$	(k)	961
M _u (Strength I)	(k)	2679
$\phi_r M_n, \phi_r M_{nc}$	(k)	2962
f_s DC1	(ksi)	14.57
f_s DC2	(ksi)	2.21
f_s DW	(ksi)	3.93
f_s 1.3($\ell \cdot IM$)	(ksi)	25.69
f_s (Service II)	(ksi)	46.45
f_s (TotalStrength I)	(ksi)	-
V _r	(k)	26.4

INTERIOR GIRDER REACTION TABLE		Abutment
R _{DC1}	(k)	27.4
R _{DC2}	(k)	5.4
R _{DW}	(k)	9.6
$R_{ℓ · IM}$	(k)	81.3
R _{Total}	(k)	123.7

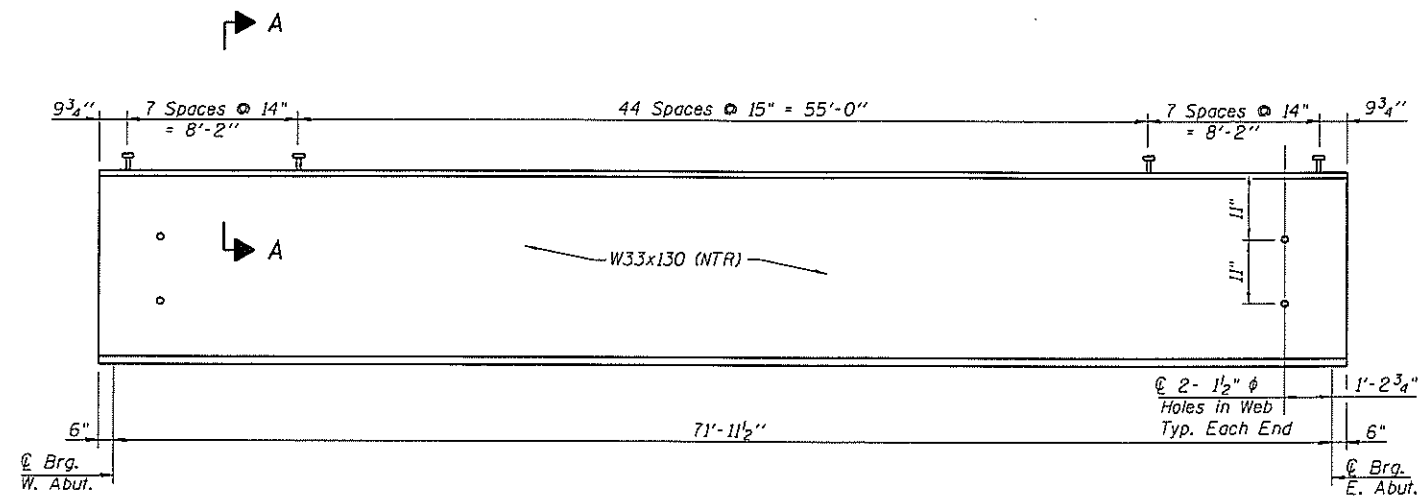
* Compact sections
 ** Non-Compact and slender sections

Note:
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. For diaphragm details see sheet 14 of 21.

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

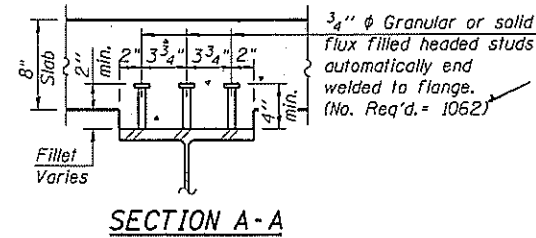
FRAMING PLAN
 STRUCTURE NO. 096-0070

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	CONTRACT NO. 74223		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



GIRDER ELEVATION

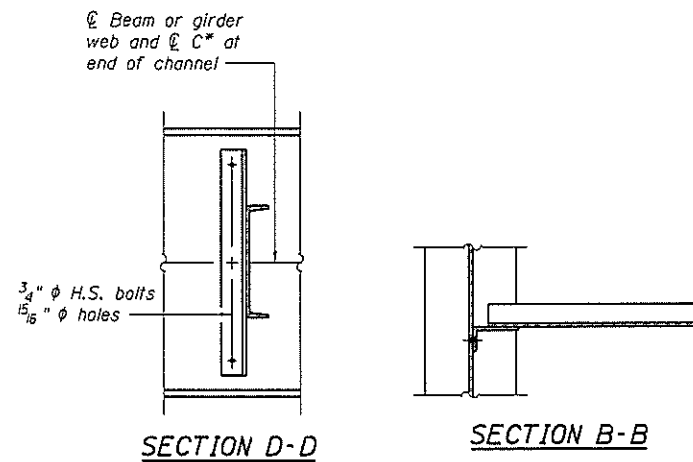
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



SECTION A-A

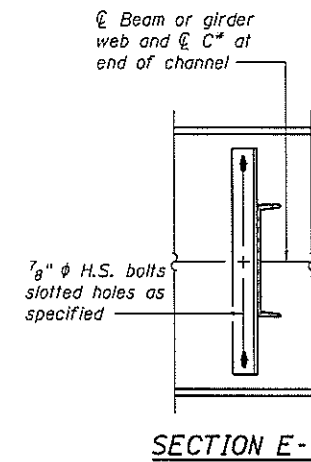
TOP OF BEAM ELEVATIONS
(For Fabrication Only)

GIRDER	℄ Brg. W. Abut.	℄ Brg. E. Abut.
1	406.478	406.520
2	406.598	406.623
3	406.701	406.709
4	406.709	406.701
5	406.623	406.598
6	406.520	406.478

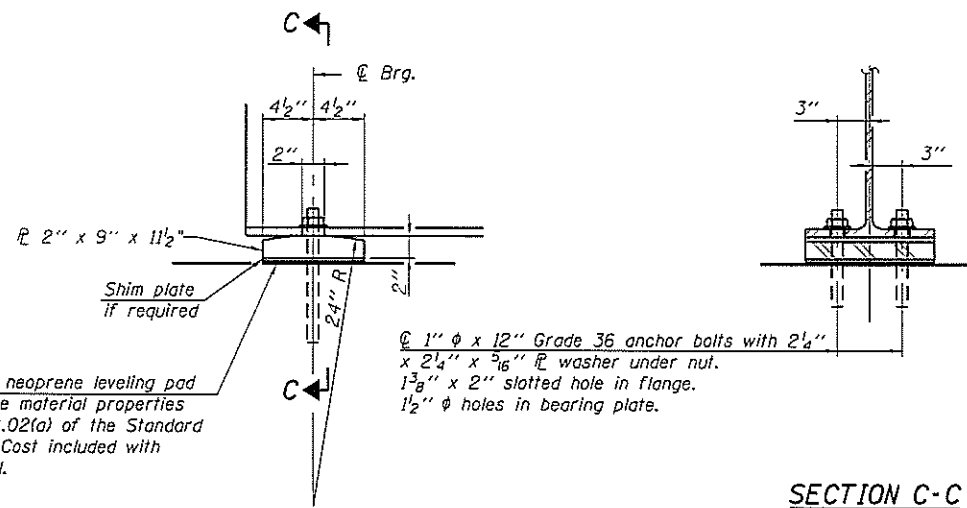


SECTION D-D

SECTION B-B



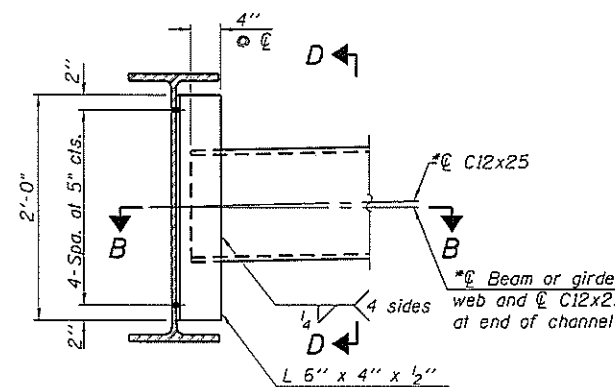
SECTION E-E



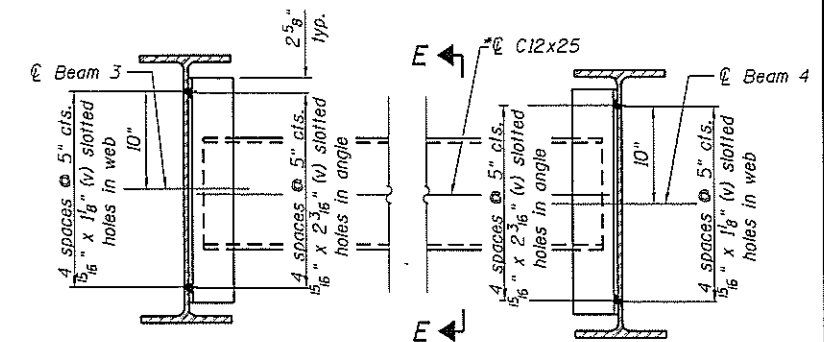
SECTION C-C

ELEVATION AT ABUTMENT

FIXED BEARING



INTERIOR DIAPHRAGM, D
(12 Required)



INTERIOR DIAPHRAGM, D1
See Interior Diaphragm, D for details not shown
(3 Required)

1/2" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

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.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
The structural steel plates and pintles of the Fixed Bearing shall conform to the requirements of AASHTO M270, Grade 50W.

Notes:
Two hardened washers required for each set of oversized or slotted holes.
*Alternate channel (C12x30) is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
Bolts in slots shall be finger tight until the second stage pour is complete. Position the slotted holes of the diaphragm connection angle so that the bolts start at one end with no concrete load and finish near the opposite end under deck load, allowing maximum vertical displacement at the stage line.

DESIGNED	DJH
CHECKED	ALN
DRAWN	DJH
CHECKED	ALN

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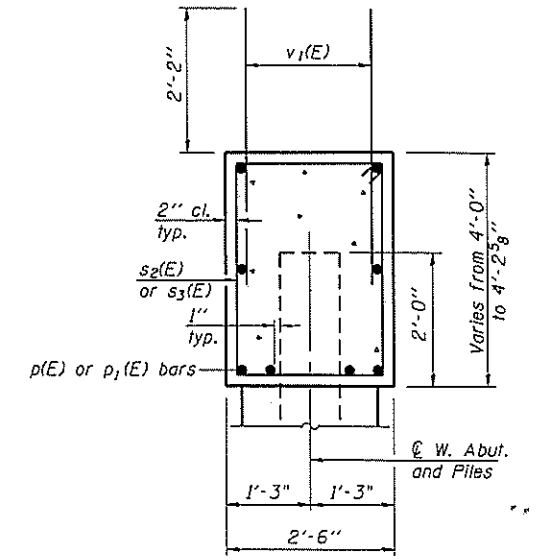
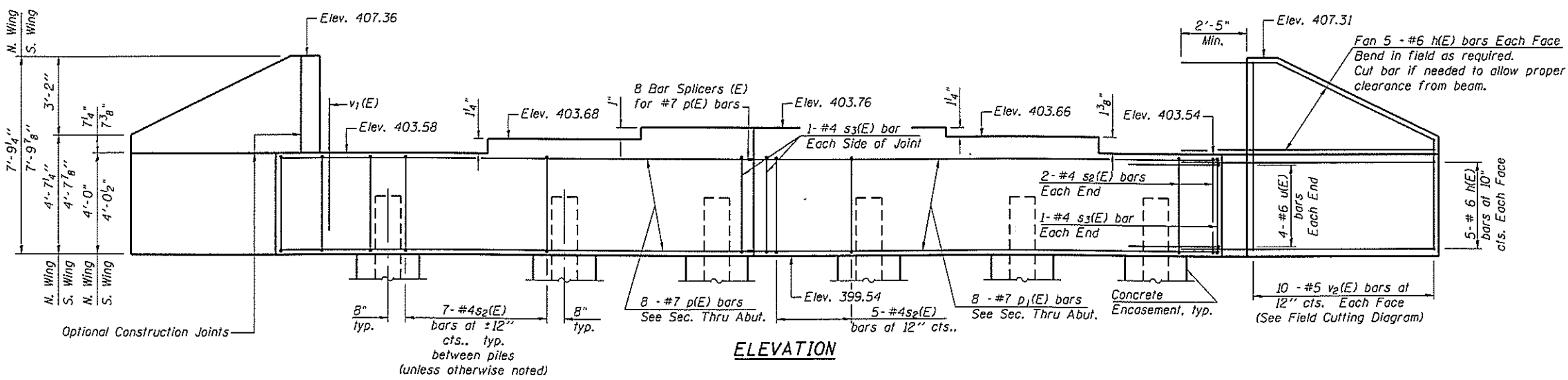


SHEET NO. 14
21 SHEETS

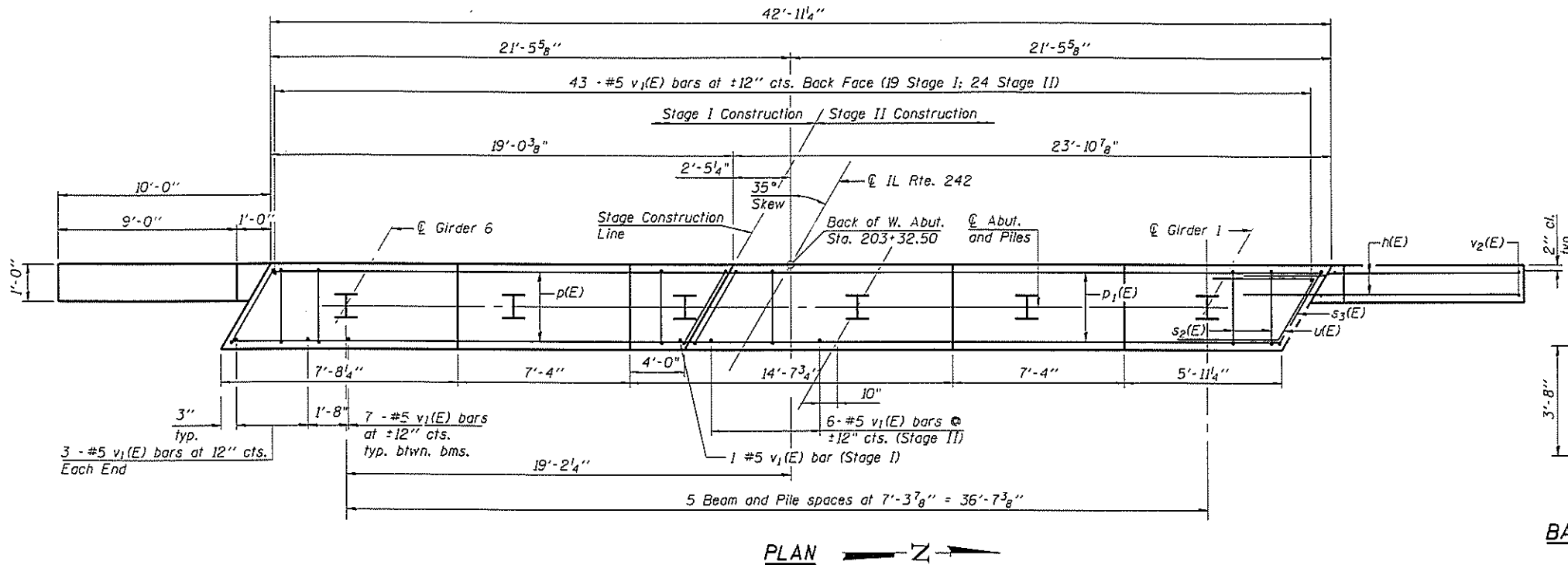
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	39
CONTRACT NO. 74223			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

GIRDER DETAILS
STRUCTURE NO. 096-0070

Notes:
Pour steps monolithically with cap.



SEC. THRU ABUT.

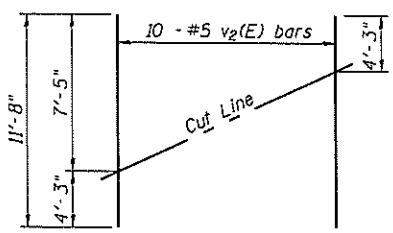


PLAN

BILL OF MATERIAL

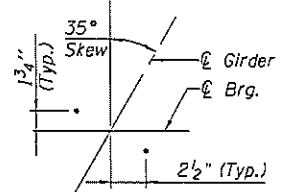
Bar	No.	Size	Length	Shape
h(E)	40	#6	12'-8"	—
p(E)	8	#7	18'-8"	—
p1(E)	8	#7	23'-7"	—
s2(E)	37	#4	12'-5"	□
s3(E)	4	#4	13'-4"	□
u(E)	8	#6	10'-5"	┌
v1(E)	84	#5	4'-4"	—
v2(E)	20	#5	11'-8"	—
Structure Excavation		Cu. Yd.	102	
Concrete Structures		Cu. Yd.	21.0	
Reinforcement Bars, Epoxy Coated		Pound	2550	
Furnishing Steel Piles, HP10X42		Foot	228	
Driving Piles		Foot	228	
Concrete Encasement		Cu. Yd.	2.1	

PILE DATA
 Type: HP 10x42
 Nominal Required Bearing: 335 Kips
 Factored Resistance Available: 167.5 Kips
 Est. Length: 38'
 No. Production Piles: 6
 No. Test Piles: 0



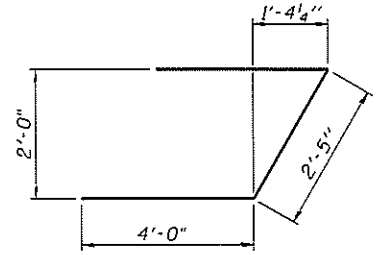
FIELD CUTTING DIAGRAM

Order 20-v2(E) full length. Cut bars in 2 groups of ten as shown and use remainder of bars in opposite face.



ANCHOR BOLT LOCATION PLAN

BARS s2(E) & s3(E)



BAR u(E)

For details of Bar Splicers, see sheet 18 of 21.
 For details of piles and Concrete Encasement, see sheet 17 of 21.

WEST ABUTMENT
 STRUCTURE NO. 096-0070

DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

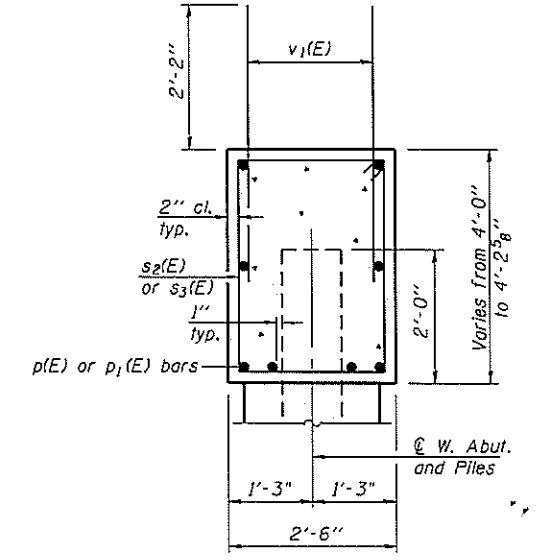
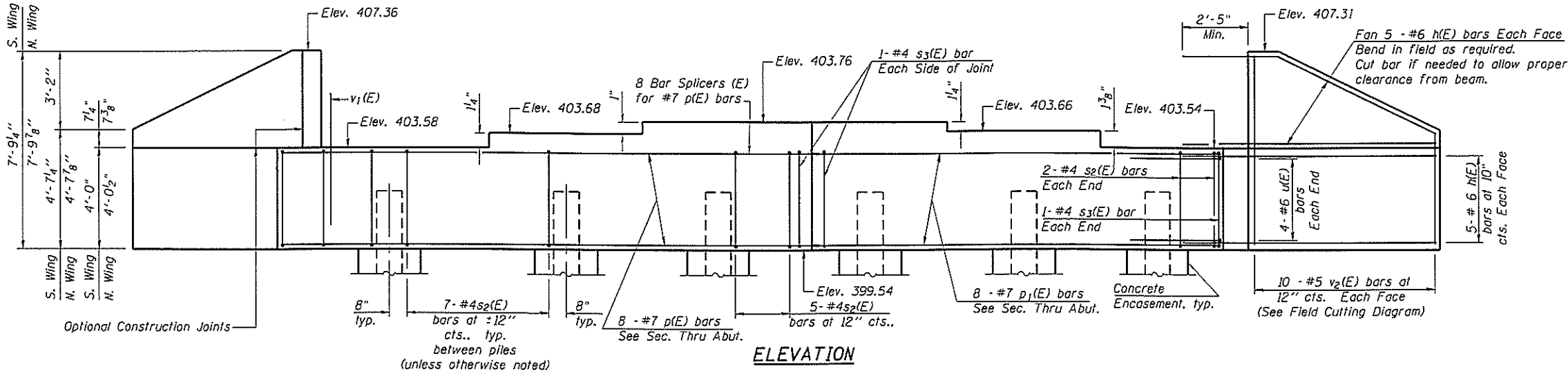
AI-R 11-1-09

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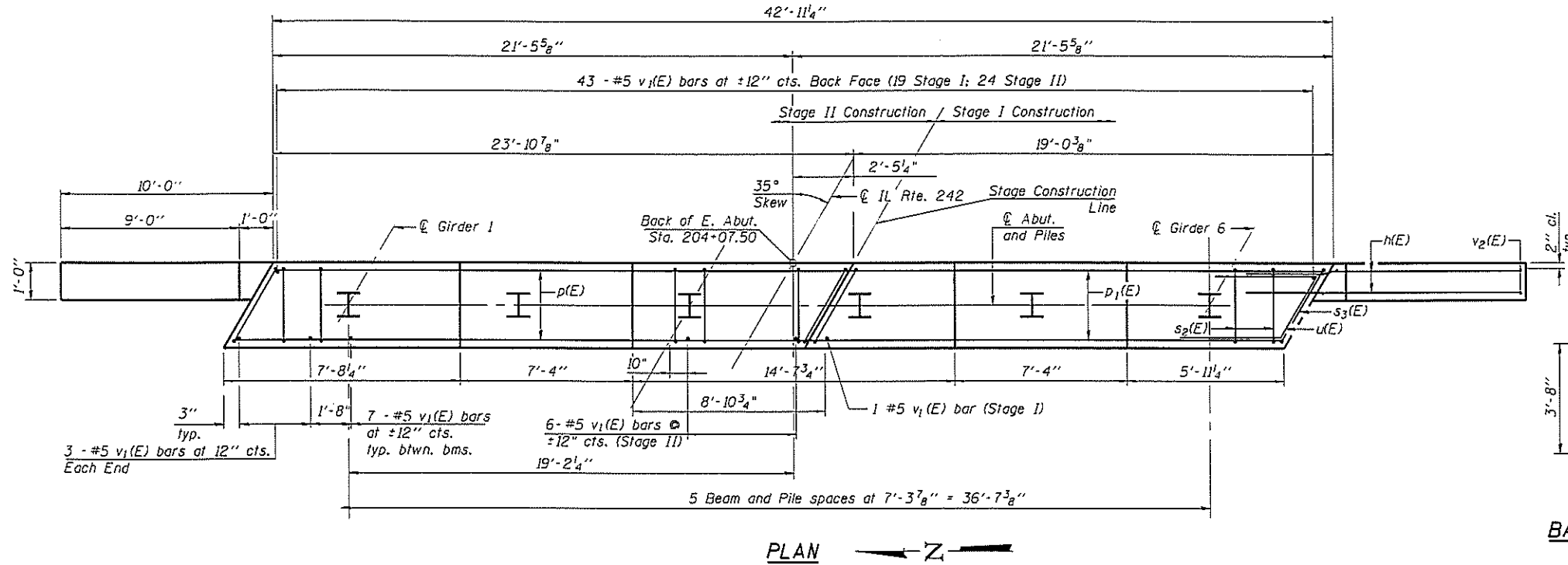


SHEET NO. 15	F.A.P. RTE. 776	SECTION (1018)B-1	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 40
21 SHEETS	CONTRACT NO. 74223		ILLINOIS FED. AID PROJECT		

Notes:
Pour steps monolithically with cap.



SEC. THRU ABUT.

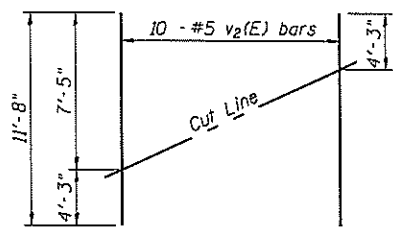


PLAN

BILL OF MATERIAL

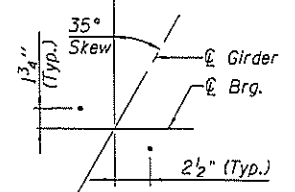
Bar	No.	Size	Length	Shape
h(E)	40	#6	12'-8"	—
p(E)	8	#7	18'-8"	—
p1(E)	8	#7	23'-7"	—
s2(E)	37	#4	12'-5"	□
s3(E)	4	#4	13'-4"	□
u(E)	8	#6	10'-5"	┌
v1(E)	84	#5	4'-4"	—
v2(E)	20	#5	11'-8"	—
Structure Excavation		Cu. Yd.	102	
Concrete Structures		Cu. Yd.	21.0	
Reinforcement Bars, Epoxy Coated		Pound	2550	
Furnishing Steel Piles, HP10X42		Foot	228	
Driving Piles		Foot	228	
Concrete Encasement		Cu. Yd.	2.1	

PILE DATA
Type: HP 10x42
Nominal Required Bearing: 335 Kips
Factored Resistance Available: 167.5 Kips
Est. Length: 38'
No. Production Piles: 6
No. Test Piles: 0



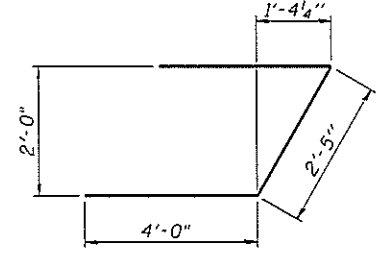
FIELD CUTTING DIAGRAM

Order 20-v2(E) full length. Cut bars in 2 groups of ten as shown and use remainder of bars in opposite face.



ANCHOR BOLT LOCATION PLAN

BARS s2(E) & s3(E)



BAR u(E)

EAST ABUTMENT
STRUCTURE NO. 096-0070

For details of Bar Splicers, see sheet 18 of 21.
For details of piles and Concrete Encasement, see sheet 17 of 21.

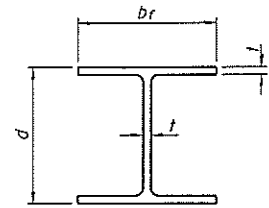
DESIGNED DJH
CHECKED ALN
DRAWN DJH
CHECKED ALN

AI-R 11-1-09

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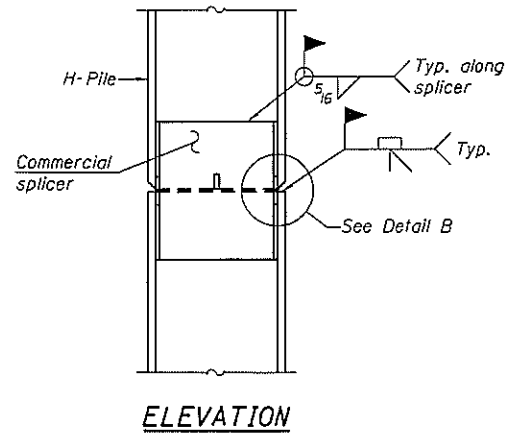


SHEET NO. 16	F.A.P. RTE. 776	SECTION (018)B-1	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 41
21 SHEETS	CONTRACT NO. 74223		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		

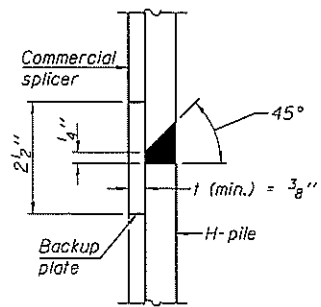


STEEL PILE TABLE

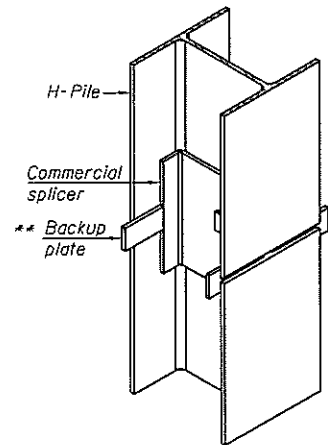
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	5/8"	30"
x102	14"	14 3/4"	5/8"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	5/8"	24"
x74	12 5/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

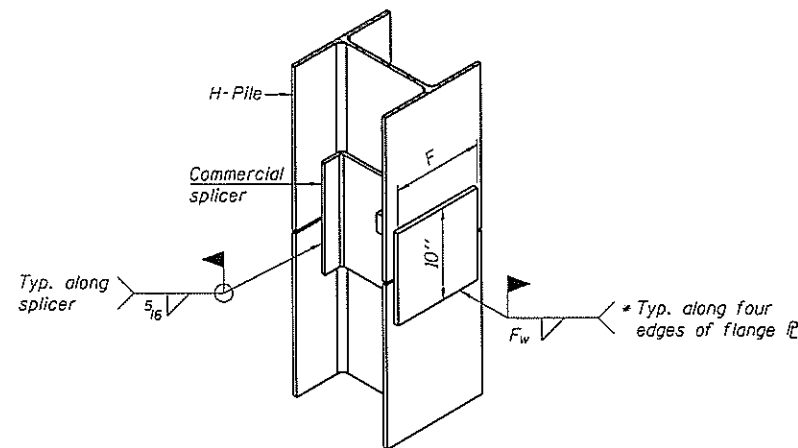


DETAIL "B"



ISOMETRIC VIEW

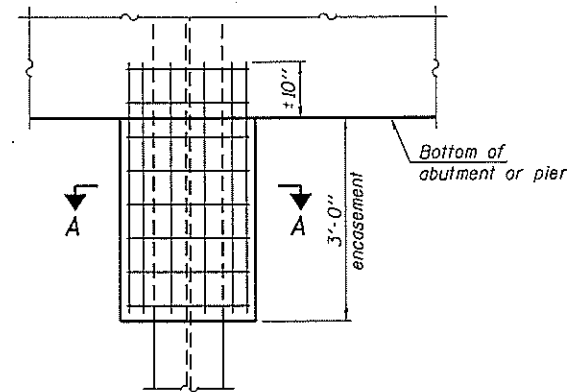
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

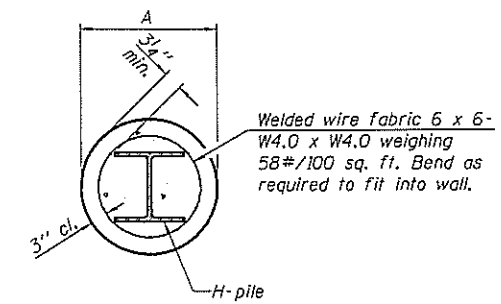
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



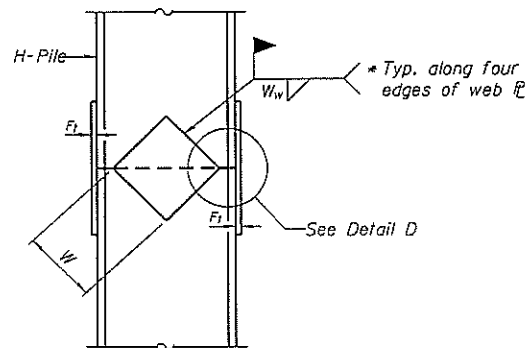
ELEVATION

PILE ENCASEMENT

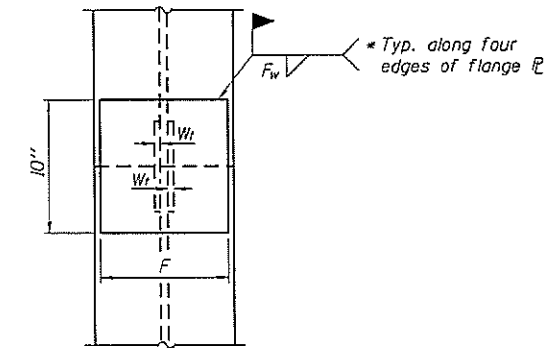


SECTION A-A

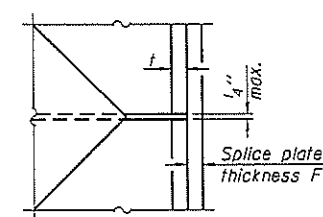
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 3/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 3/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5 3/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 3/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5 3/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5 3/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

**HP PILE DETAILS
STRUCTURE NO. 096-0070**

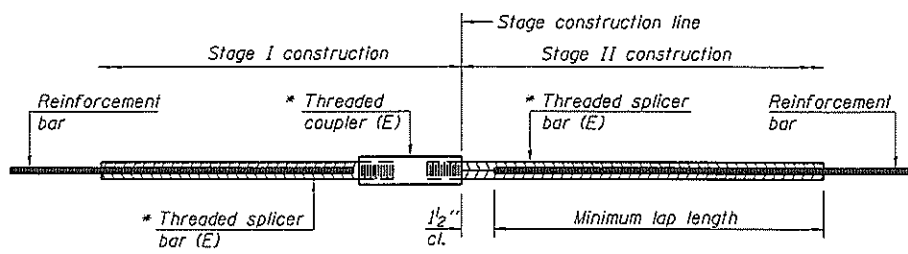
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SHEET NO. 17 21 SHEETS	F.A.P. RTE. 776	SECTION (JOB)B-1	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 42
	CONTRACT NO. 74223			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY

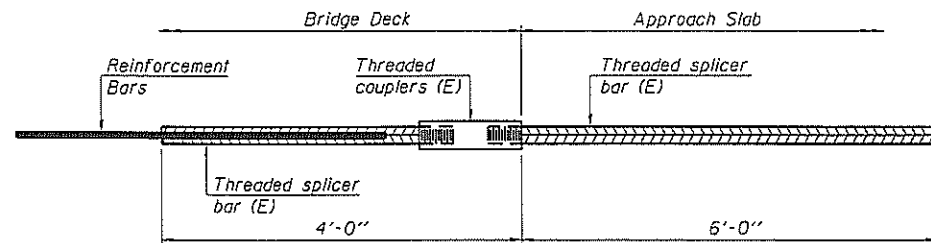
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- 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, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 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	222	5
Appr. Slab	#5	92	5
Appr. Slab	#4	50	5
Appr. Footing	#5	80	5
Diaphragms	#6	16	5
Abutments	#7	16	5

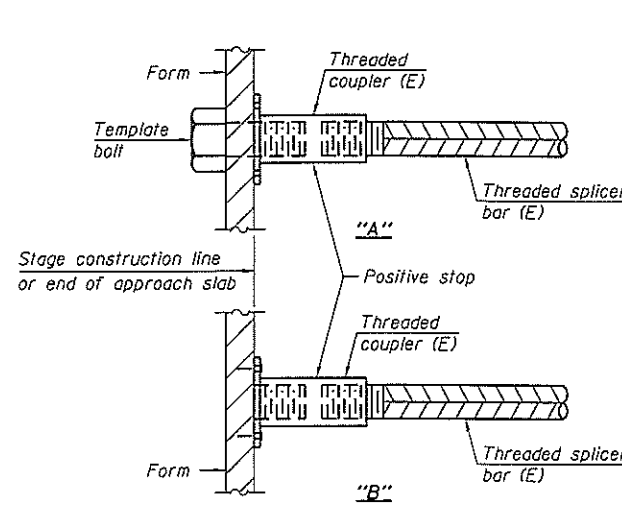


BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 72

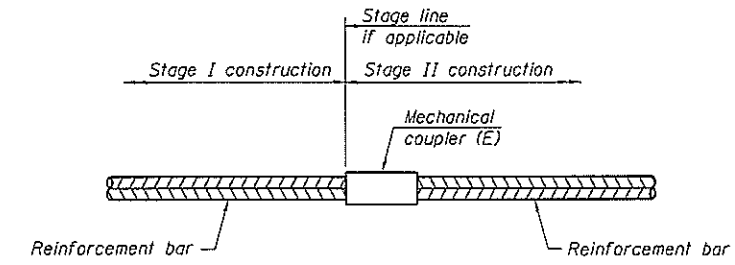
DESIGNED DJH
CHECKED ALN
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CHECKED ALN

BSD-1 1-27-12



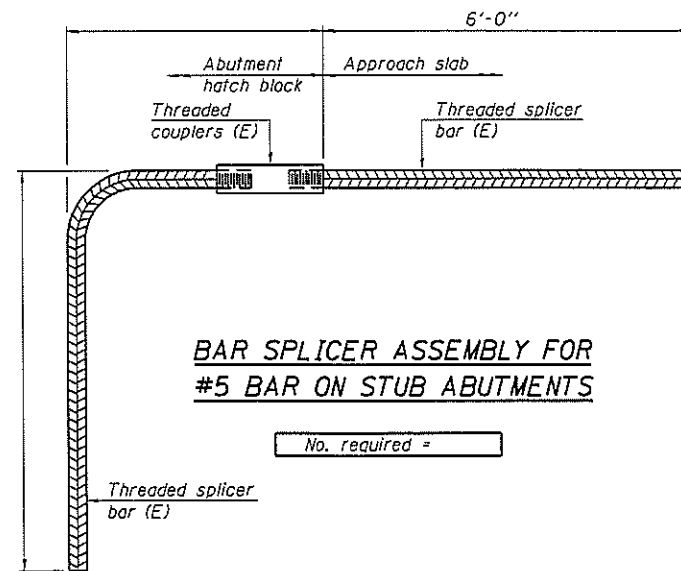
INSTALLATION AND SETTING METHODS

"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 =

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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

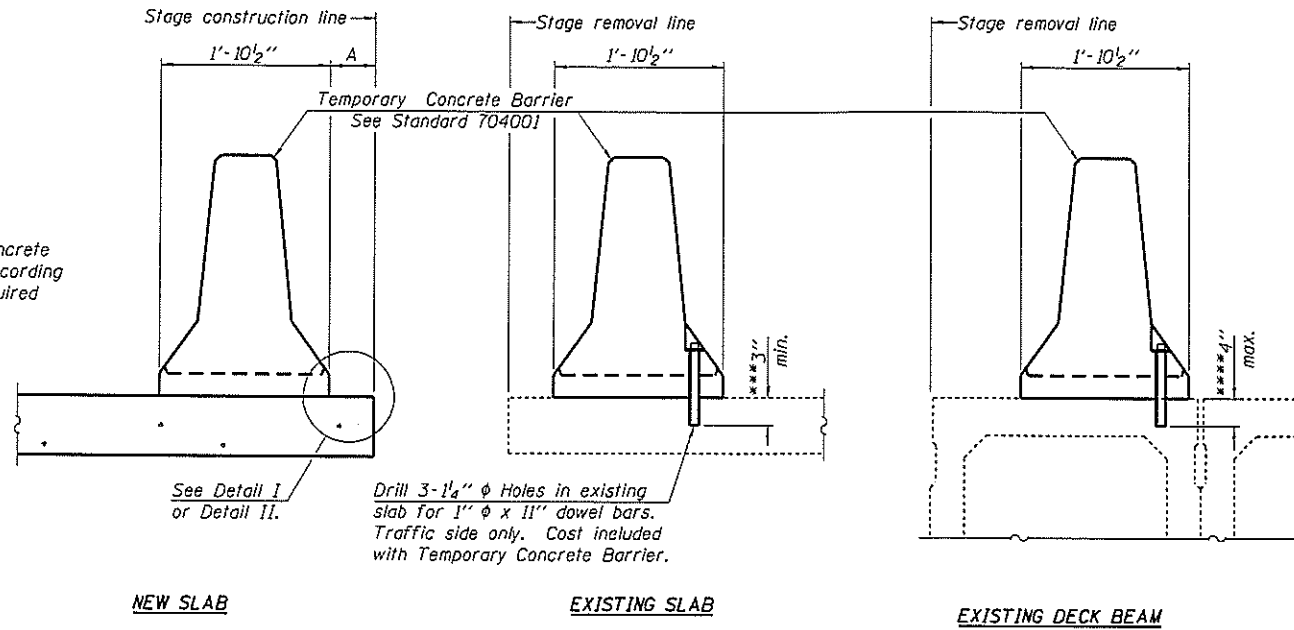
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 096-0070

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SHEET NO. 18 21 SHEETS	F.A.P. RTE. 776	SECTION (10'B)-1	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 43
	CONTRACT NO. 74223			FED. ROAD DIST. NO. 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

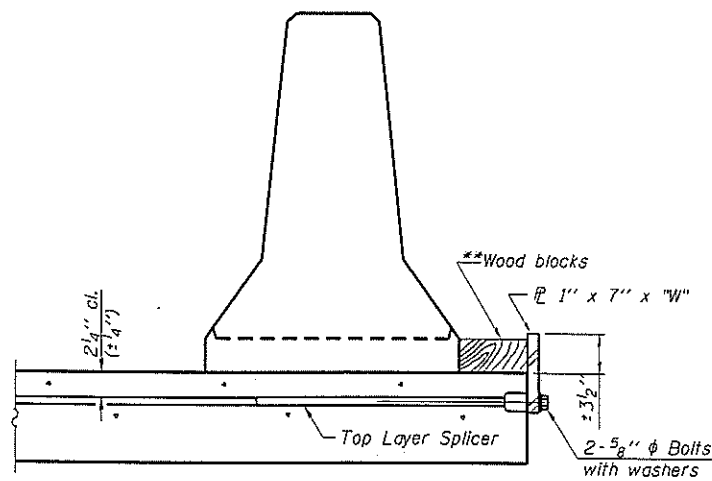
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{c} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{c} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{c} 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.

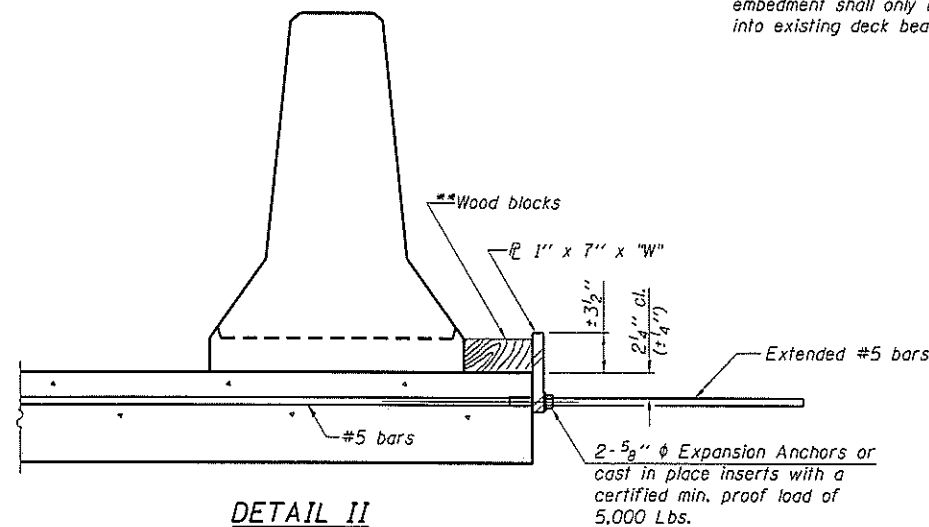
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** 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.

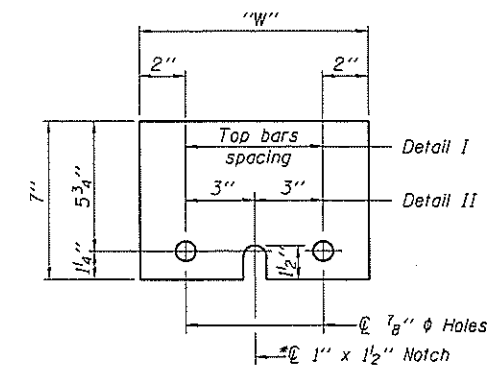
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{c} 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"

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 096-0070**

DESIGNED	DJH
CHECKED	ALN
DRAWN	DJH
CHECKED	ALN

R-27

7-1-10

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SHEET NO. 19	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	776	(01B)-1	WAYNE	66	44
21 SHEETS	CONTRACT NO. 74223				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



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Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/19/08

ROUTE FAP 776 (IL 242) DESCRIPTION Fish Slough LOGGED BY E. Sandschafer

SECTION (101B)B-1 LOCATION North 1/2, SEC. 6, TWP. 3 S, RNG. 6 E, 3 PM

COUNTY Wayne DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After 168 Hrs.	DEPTH	B	U	M
096-0030	204+68	(ft)	(#6")	(tsf)	(%)	Dry ft	392.80 ft		ft	ft	ft	(ft)	(#6")	(tsf)	(%)
6 7/8" asphalt on 8" concrete pavement.															
402.76															
Medium to stiff, damp, gray, SILTY CLAY.															
2															
2 0.8 27															
3 S															
379.46															
Gray, SANDY LOAM.															
378.96															
2 1.0 37															
3 BS															
376.96															
Very stiff, damp, brown, SILTY CLAY.															
1 0.7 34															
3 B															
374.08															
2 1.5 22															
3 B															
391.96															
Stiff, damp, red marbled gray, CLAY.															
4 1.9 23															
5 B															
369.46															
2 37															
4 1.7 24															
4 S															
368.66															
Very dense, moist, gray, SANDY CLAY SHALE.															
Extent of exploration.															
50/2"															
50/1"															
2															
3 1.7 23															
5 S															
2															
-20															

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



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Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 9/19/08

ROUTE FAP 776 (IL 242) DESCRIPTION Fish Slough LOGGED BY E. Sandschafer

SECTION (101B)B-1 LOCATION North 1/2, SEC. 6, TWP. 3 S, RNG. 6 E, 3 PM

COUNTY Wayne DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After 168 Hrs.	DEPTH	B	U	M
096-0030	204+68	(ft)	(#6")	(tsf)	(%)	Dry ft	392.80 ft		ft	ft	ft	(ft)	(#6")	(tsf)	(%)
5 7/8" asphalt on 8 1/4" concrete pavement.															
402.70															
Stiff to medium, damp, gray/red, SILTY CLAY.															
3															
2 1.1 33															
3 B															
380.90															
Soft, very damp, red, SANDY LOAM.															
-5 1															
1 0.7 32															
2 B															
1															
2 1.0 31															
3 B															
376.90															
Very stiff, damp, brown, SANDY CLAY.															
2															
5 2.1 19															
7 B															
374.40															
Very stiff, damp, brown, CLAY LOAM.															
-10 2															
4 0.7 24															
5 BS															
391.50															
Stiff, damp, red marbled gray, CLAY.															
4 2.2 22															
4 B															
369.40															
2 37															
3 1.6 22															
5 S															
368.90															
Very dense, moist, gray, SANDY CLAY SHALE.															
Borehole continued with rock coring.															
50/5"															
50/1"															
50/1"															
2															
4 2.1 22															
4 B															
2															
383.90															
-20															

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED DJH
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CHECKED ALN

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SHEET NO. 20
21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	45
CONTRACT NO. 74223				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

(Sheet 1 of 2)
SOIL BORING LOGS
STRUCTURE NO. 096-0070



ROCK CORE LOG

Date 9/19/08

ROUTE FAP 776 (IL 242) DESCRIPTION Fish Slough LOGGED BY E. Sandschafer

SECTION (101B)B-1 LOCATION North 1/2, SEC. 6, TWP. 3 S, RNG. 6 E, 3 PM

COUNTY Wayne CORING METHOD Rotray, surf set diamond bit

STRUCT. NO. 096-0030 CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
 Station 204+68 Core Diameter 2.06 in
 BORING NO. 2 S Abut Top of Rock Elev. 369.40 ft
 Station 204+00 Begin Core Elev. 399.90 ft
 Offset 8.00 ft Rt
 Ground Surface Elev. 403.90 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	DESCRIPTION
368.90	B2C1	86	86	0.8		Gray, moderately weathered, SANDY CLAY SHALE. Rock core B2C1 from 35.5' to 35.9' depth Qu = 59.3 tsf.
363.90						Gray, slightly weathered, SANDY CLAY SHALE. Rock core B2C2 from 43.0' to 43.5' depth Qu = 81.8 tsf.
358.90						Extent of exploration. Benchmark: BM 608 cut square on SE corner of existing structure, Sta 203+60, 16' Lt = 403.56' elevation. Provided by Program Development.

Color pictures of the cores Available on request
 Cores will be stored for examination until 09/19/09
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

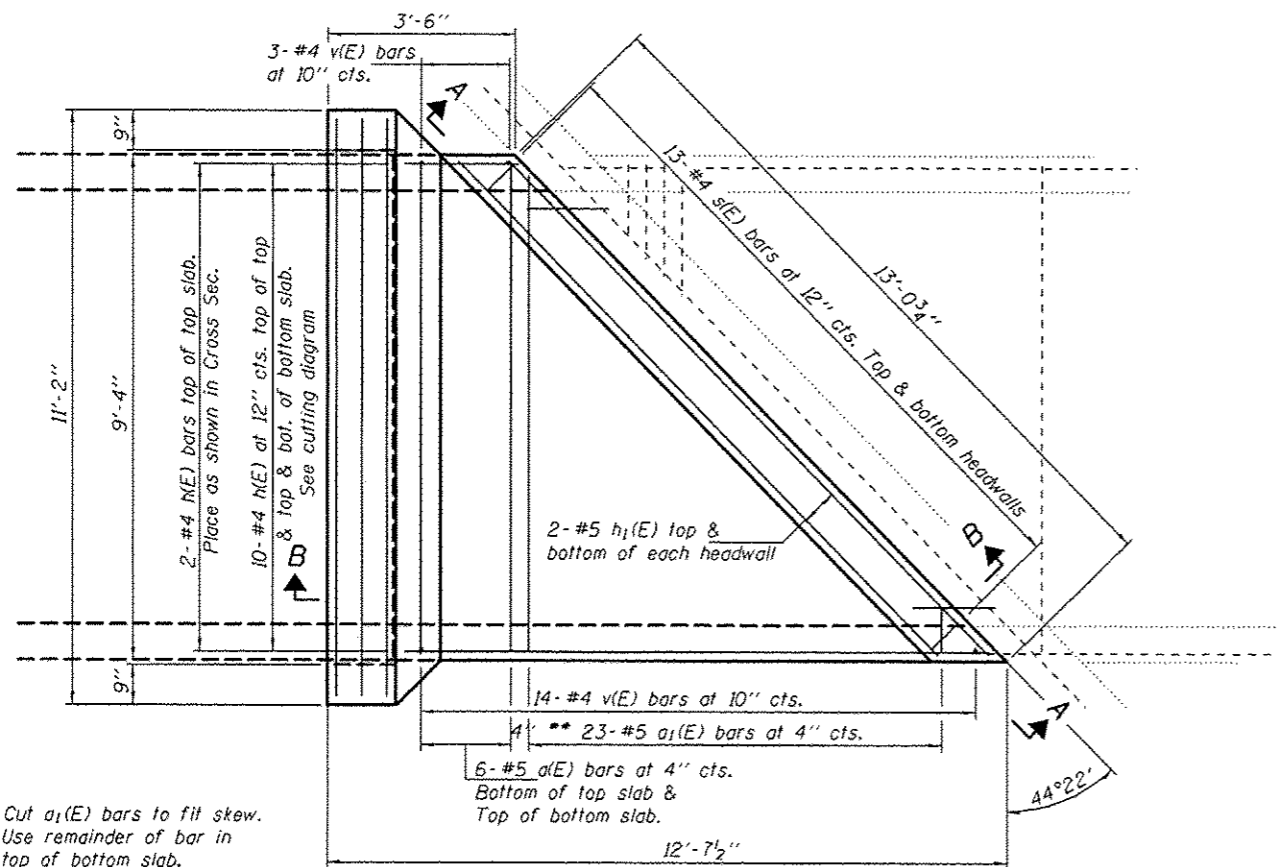
DESIGNED <u>DJH</u>
CHECKED <u>ALN</u>
DRAWN <u>DJH</u>
CHECKED <u>ALN</u>

(Sheet 2 of 2)
SOIL BORING LOGS
STRUCTURE NO. 096-0070

THOUVENOT, WADE & MOERCHEN, INC. SWANSEA • WATERLOO • EDWARDSVILLE • CARBONDALE • ST. CHARLES • BLOOMING LESS.	CORPORATE OFFICE 4940 Old Collinsville Road Swansea, Illinois 62226 Tel: 618.624.4488 Fax: 618.624.6688	 EXCEPTIONAL SERVICE.	SHEET NO. 21	F.A.P. RTE. 776	SECTION (101B)B-1	COUNTY WAYNE	TOTAL SHEETS 66	SHEET NO. 46
			21 SHEETS	CONTRACT NO. 74223		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

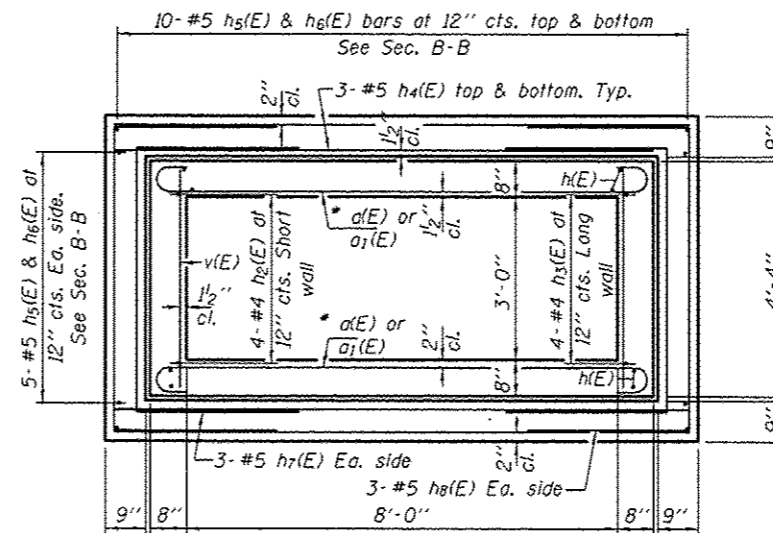
Reinforcement bars designated (E) shall be epoxy coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to 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.



PLAN

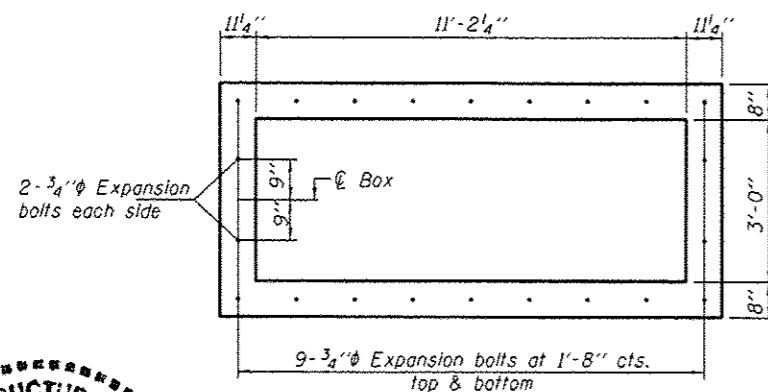
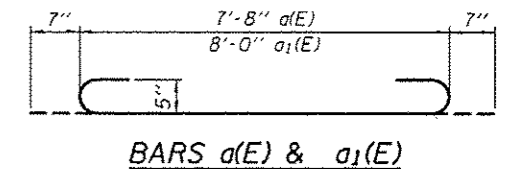
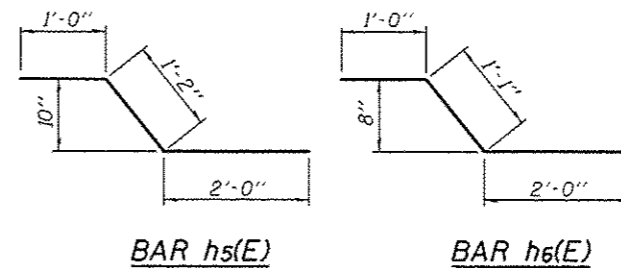
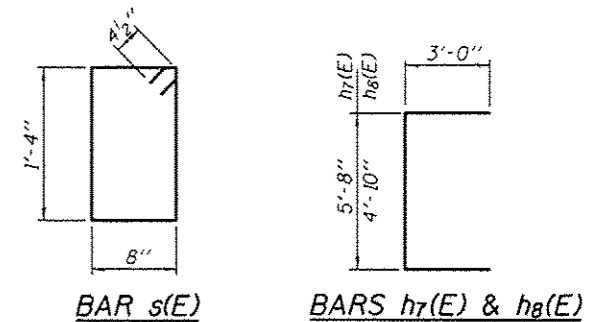
(Opposite end similar by 180° rotation)

** Cut a₁(E) bars to fit skew. Use remainder of bar in top of bottom slab.



SECTION THRU BOX

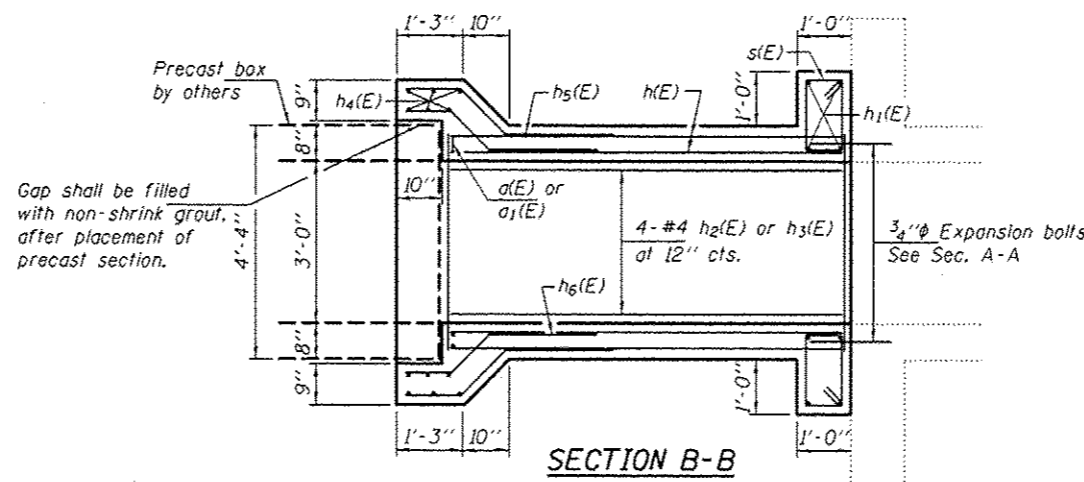
* Tilt hook of a(E) & a₁(E) bars as required for clearance.



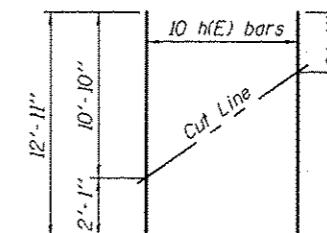
SECTION A-A

(Showing expansion bolt location)

Note: Expansion bolts shall be 3/4" hooked bolts. Hooked bolts shall extend 9" minimum into new concrete.



SECTION B-B



FIELD CUTTING DIAGRAM

Order h(E) full length. Cut as shown, place in top of top slab and use remainder of bars in bottom of bottom slab.

DESIGN STRESSES

f_y = 60,000 psi
 f'c = 3,500 psi

BILL OF MATERIAL (TWO EXTENSIONS)

Bar	No.	Size	Length	Shape
a(E)	24	#5	8'-10"	U
a ₁ (E)	46	#5	9'-2"	U
h(E)	24	#4	12'-11"	—
h ₁ (E)	16	#5	12'-9"	—
h ₂ (E)	8	#5	2'-1"	—
h ₃ (E)	8	#5	11'-0"	—
h ₄ (E)	24	#5	10'-10"	—
h ₅ (E)	60	#5	4'-2"	—
h ₆ (E)	60	#5	4'-1"	—
h ₇ (E)	12	#5	11'-8"	—
h ₈ (E)	12	#5	10'-10"	—
s(E)	52	#4	4'-9"	U
v(E)	34	#5	4'-0"	—
Expansion Bolts, 3/4"				Each
Concrete Box Culverts				Cu. Yd.
Reinforcement Bars				Pound
				44
				16.2
				2570



EXPIRES 11-30-2016

DESIGNED	Checked	EXAMINED	DATE
CHECKED		ACTING ENGINEER OF STRUCTURAL SERVICES	FEBRUARY 2, 2015
DRAWN	baliva	PASSED	REVISED
CHECKED	VHV	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

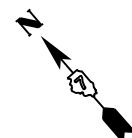
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT EXTENSION DETAILS
 WAYNE COUNTY

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
176	(1018)B-1	WAYNE	66	48
				CONTRACT NO. 74223
ILLINOIS FED. AID PROJECT				

EROSION CONTROL GENERAL NOTES



EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION:

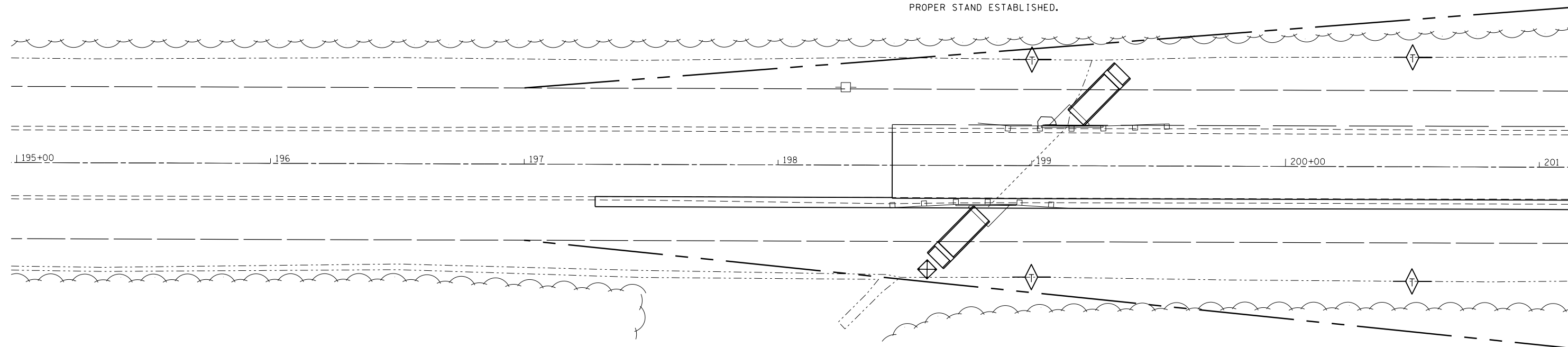
1. THE AREAS OF EXCAVATION AND EMBANKMENT PLACEMENT SHALL BE MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE IMPROVEMENT AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION, MINIMIZING SILTATION AT THE RIGHT-OF-WAY LINE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION CONTROL BARRIER. WORK AT THE START OF CONSTRUCTION SHALL CONSIST OF THE FOLLOWING:
 - (a) AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM MOWING, BRUSH CUTTING, TREE REMOVAL, AND OTHER ACTIVITIES THAT WOULD BE DETRIMENTAL TO THEIR MAINTENANCE AND DEVELOPMENT.
 - (b) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
 - (c) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE START OF CONSTRUCTION WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN CALENDAR DAYS.

EROSION CONTROL MEASURES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - (a) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE A HIGH FLOW OF WATER, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL CONTINUOUS OPERATIONS CAN ENSURE TIMELY COMPLETION OF WORK IN THESE AREAS TO MINIMIZE SOIL EROSION.
 - (b) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN CALENDAR DAYS.

EROSION CONTROL MEASURES AFTER FINAL GRADING:

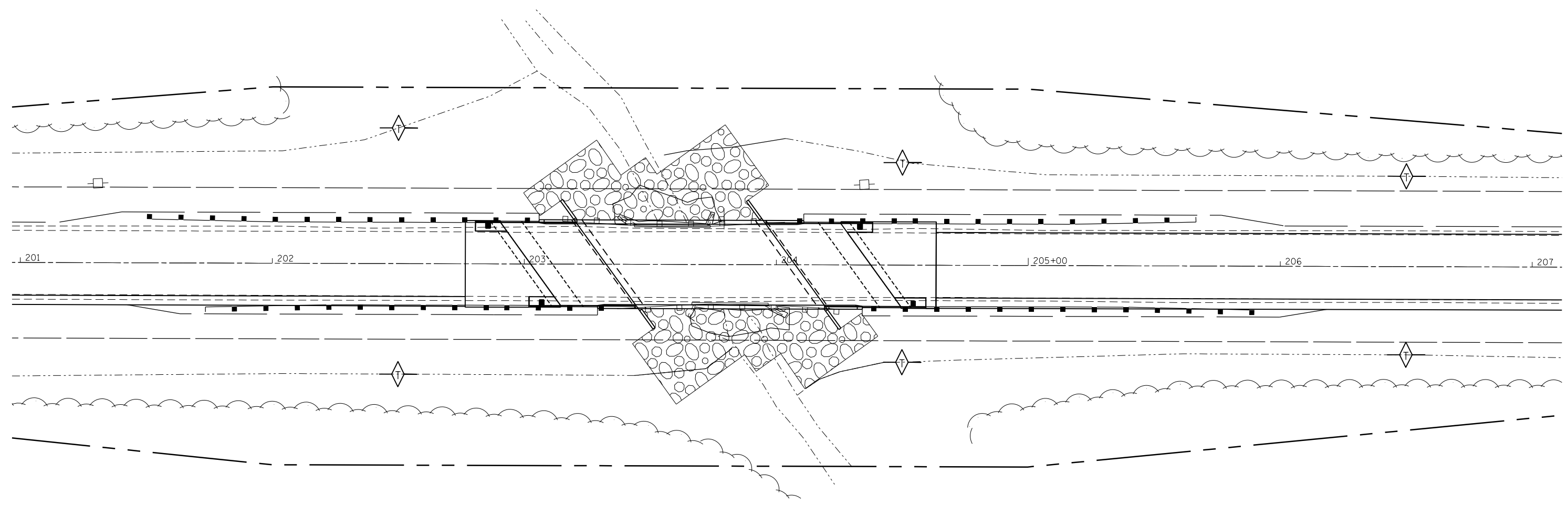
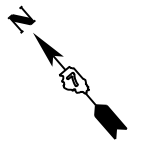
1. EXCAVATION AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADED.
 - (a) TEMPORARY EROSION CONTROL SYSTEMS SHALL REMAIN IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY WITH ALL PROPOSED TURF AREAS SEEDED AND A PROPER STAND ESTABLISHED.





LEGEND

- TEMPORARY DITCH CHECKS
- INLET AND FIRE PROTECTION

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\p\idot\teasleyck\dms61361\d77#223-sht-erosioncontrol.dgn		DRAWN -	REVISED -			776	(101B)B-1	WAYNE	66	48	
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 74223					
	PLOT DATE = 12/10/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 20	SHEET 1 OF 3 SHEETS		STA. 195+00 TO STA. 201+00			



LEGEND

-  TEMPORARY DITCH CHECKS
-  INLET AND FIRE PROTECTION

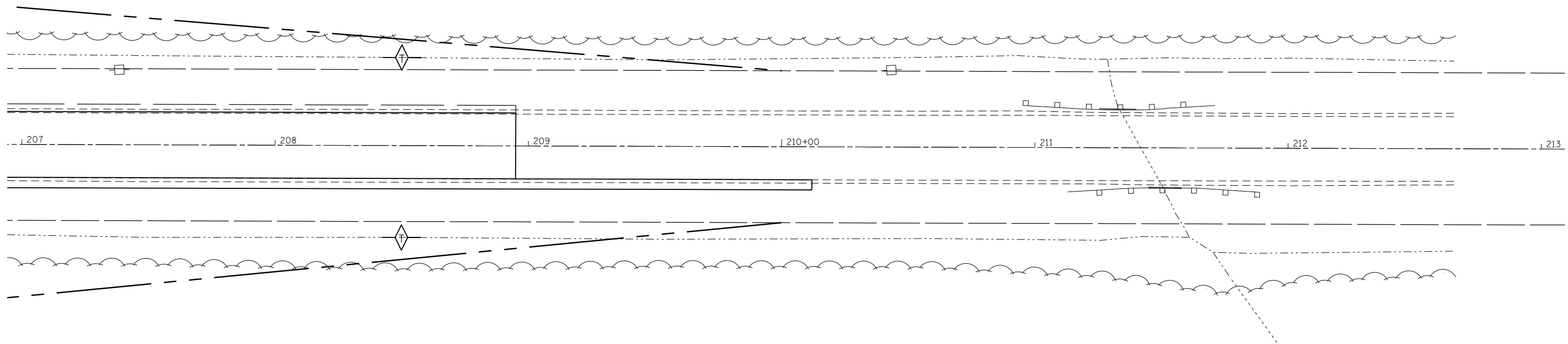
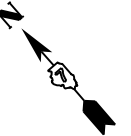
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	PLOT DATE = 12/10/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



EROSION CONTROL

SCALE: 20 SHEET 2 OF 3 SHEETS STA. 201+00 TO STA. 207+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	49
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				



LEGEND

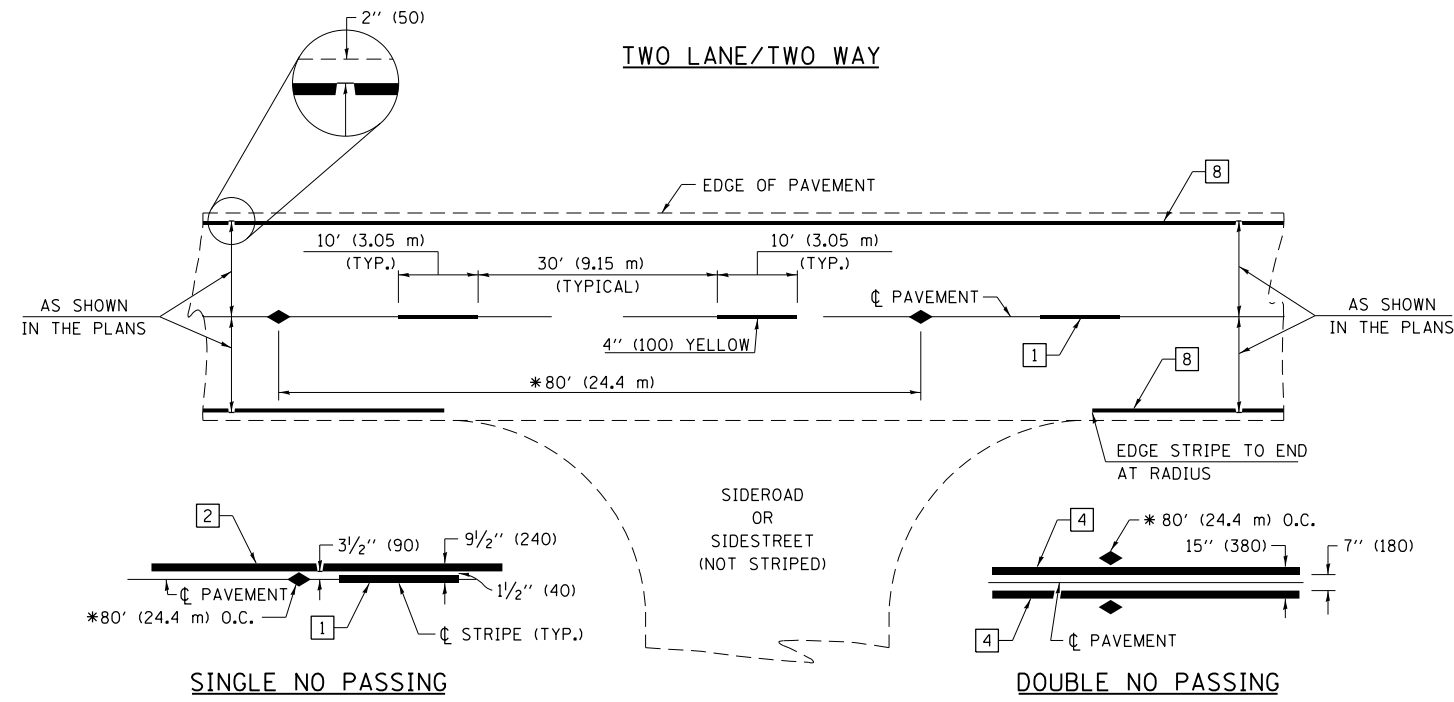
-  TEMPORARY DITCH CHECKS
-  INLET AND FIRE PROTECTION

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	PLOT DATE = 12/10/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL
SCALE: 20 SHEET 3 OF 3 SHEETS STA. 207+00 TO STA. 213+00

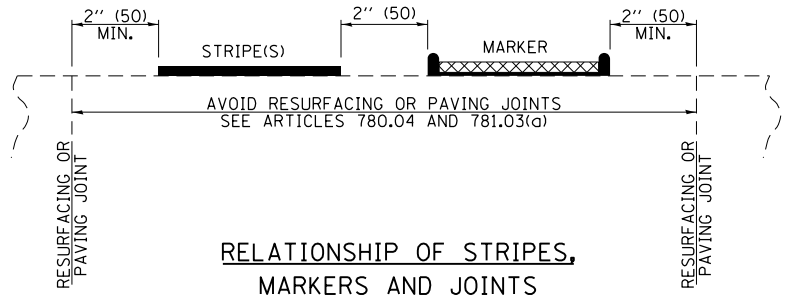
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	50
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

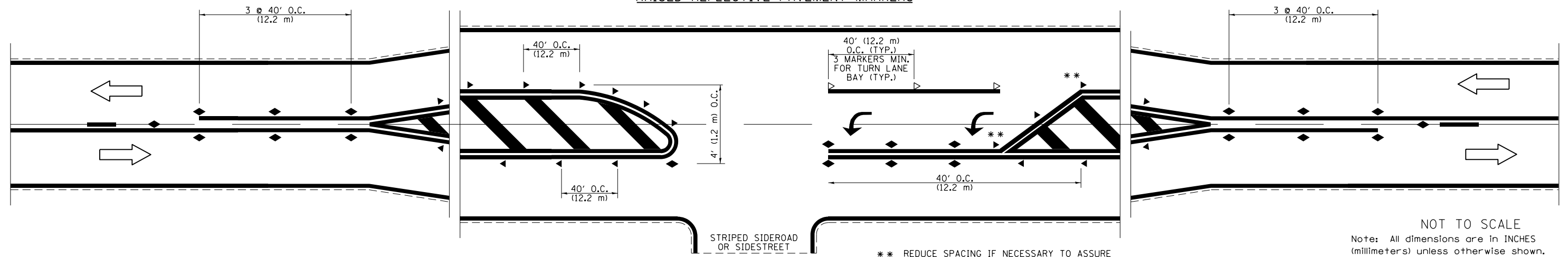
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

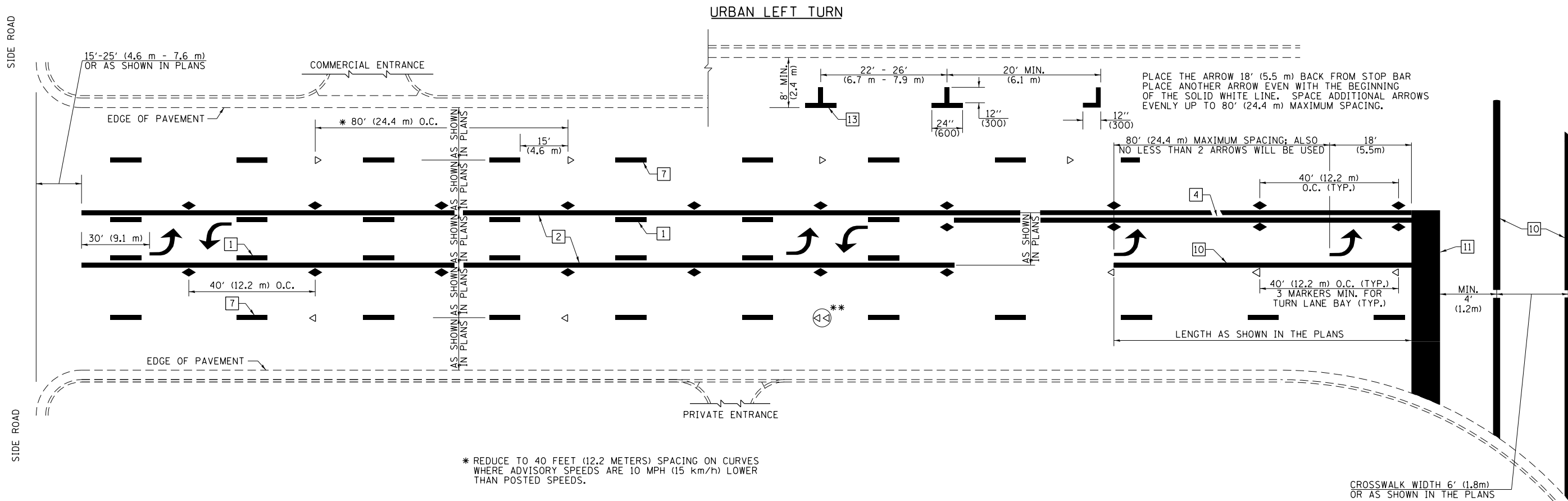
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	51
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

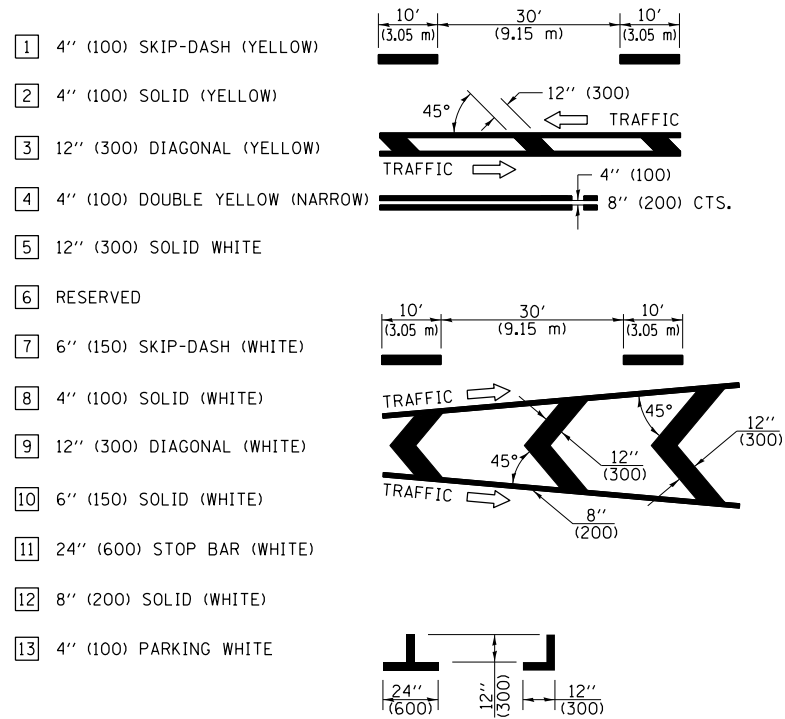
SCALE: N/A SHEET NO. 1 OF 4 SHEETS STA. TO STA.



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

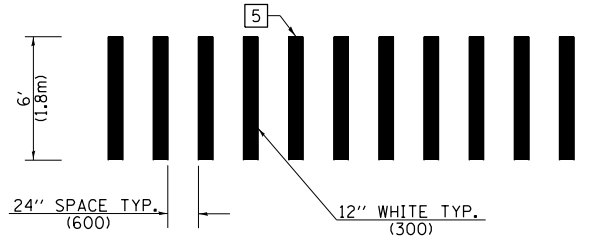
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

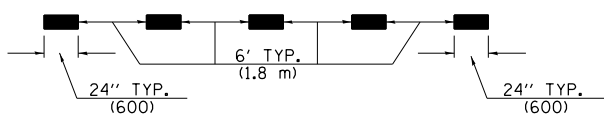


GENERAL NOTES

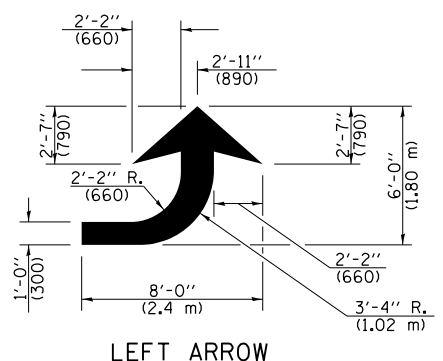
- TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
- USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
- LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



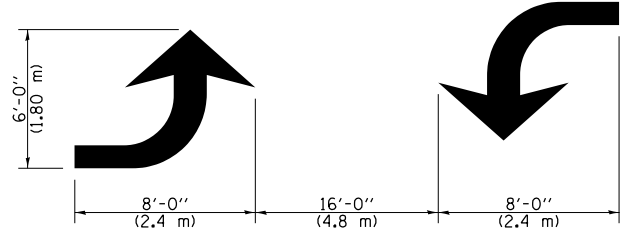
**CROSSWALK DETAIL
(DECATUR CITY LIMITS ONLY)**



LANE LINE EXTENSIONS



LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



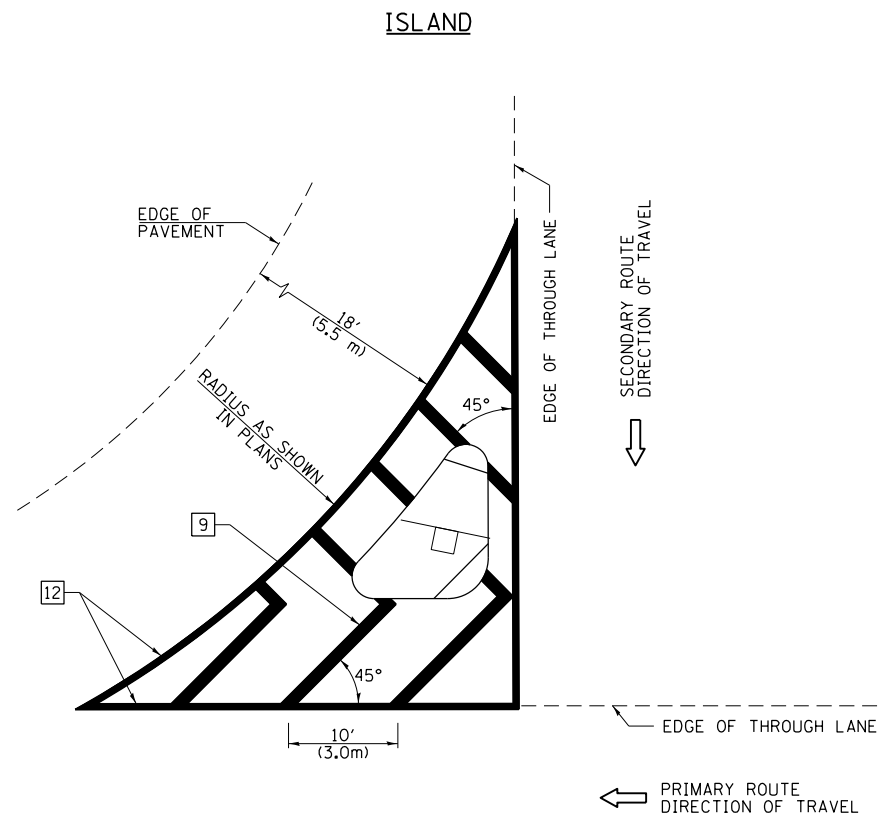
**TYPICAL DOUBLE
TURN ARROWS (WHITE)**

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw\work\p\idot\teasleyck\dms61361\d774223-sht-details.dgn	PLOT SCALE = 100.0000' / 1in.	DRAWN -	REVISED -					776	(101B)B-1	WAYNE	66	52
PLOT DATE = 12/10/2014	DATE -	CHECKED -	REVISED -					CONTRACT NO. 74223				
								ILLINOIS FED. AID PROJECT				

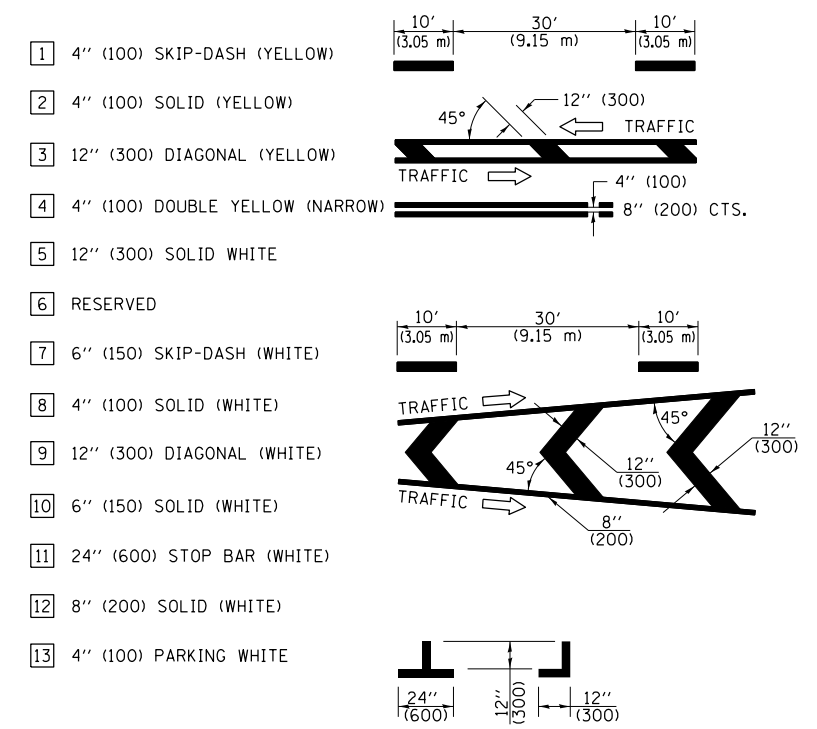


GENERAL NOTES

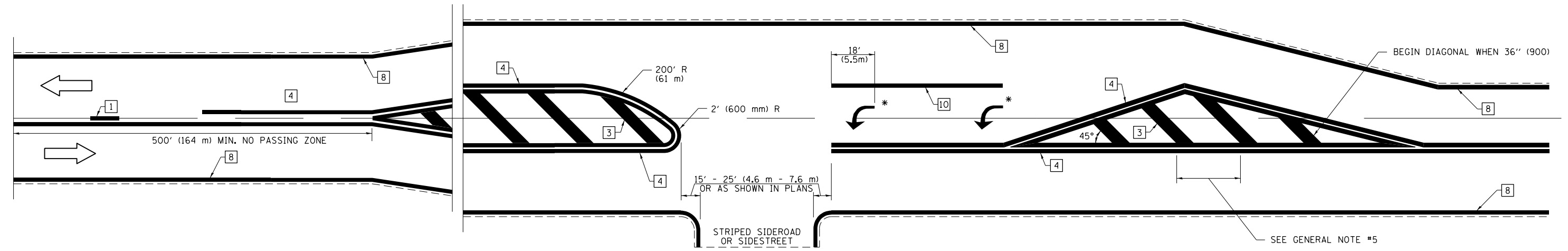
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

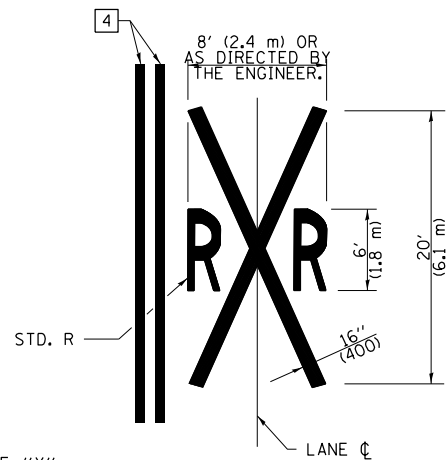
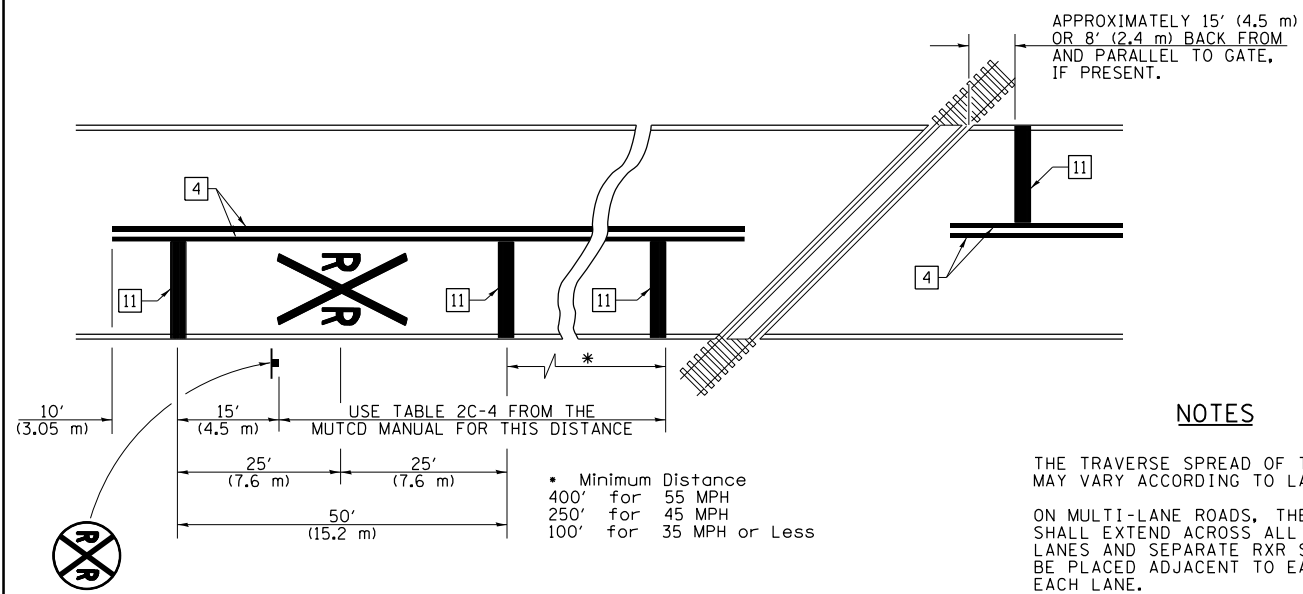
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	PLOT DATE = 12/10/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
 (RURAL & URBAN APPLICATIONS)**
 SCALE: N/A SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	53
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

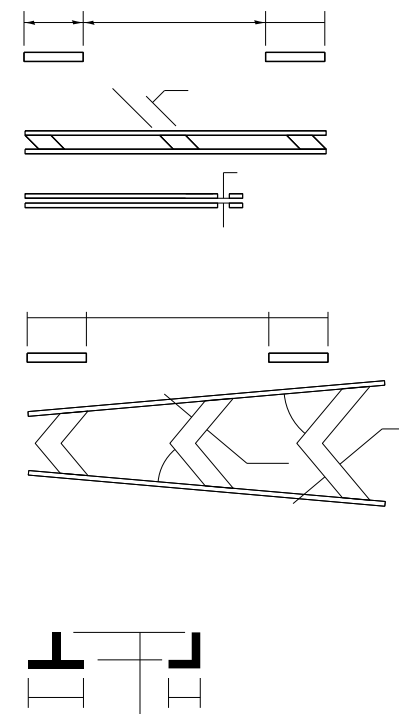


NOTES

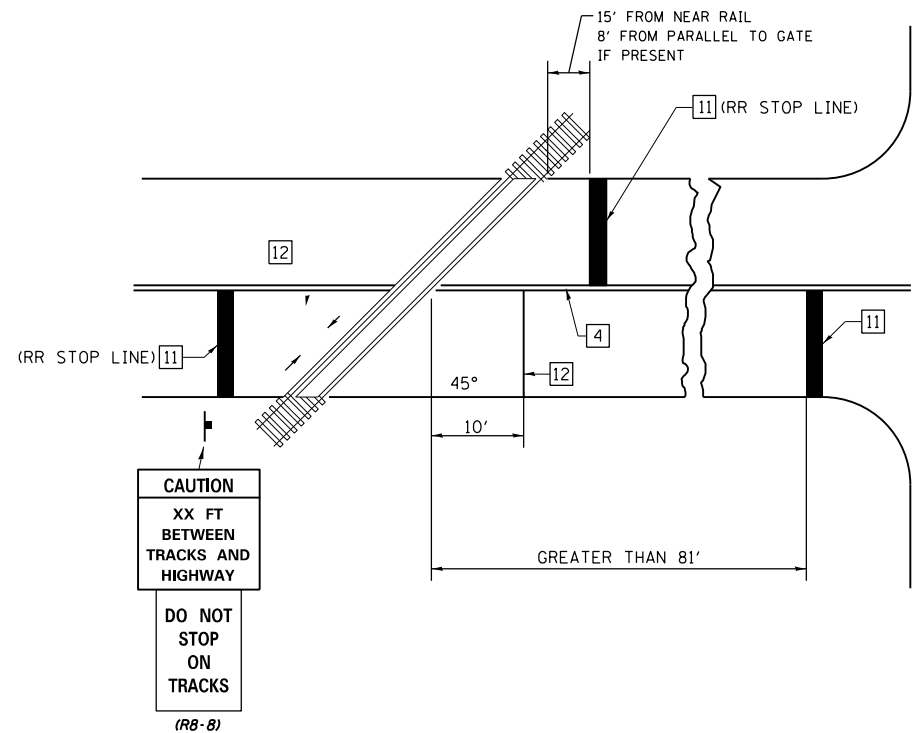
THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

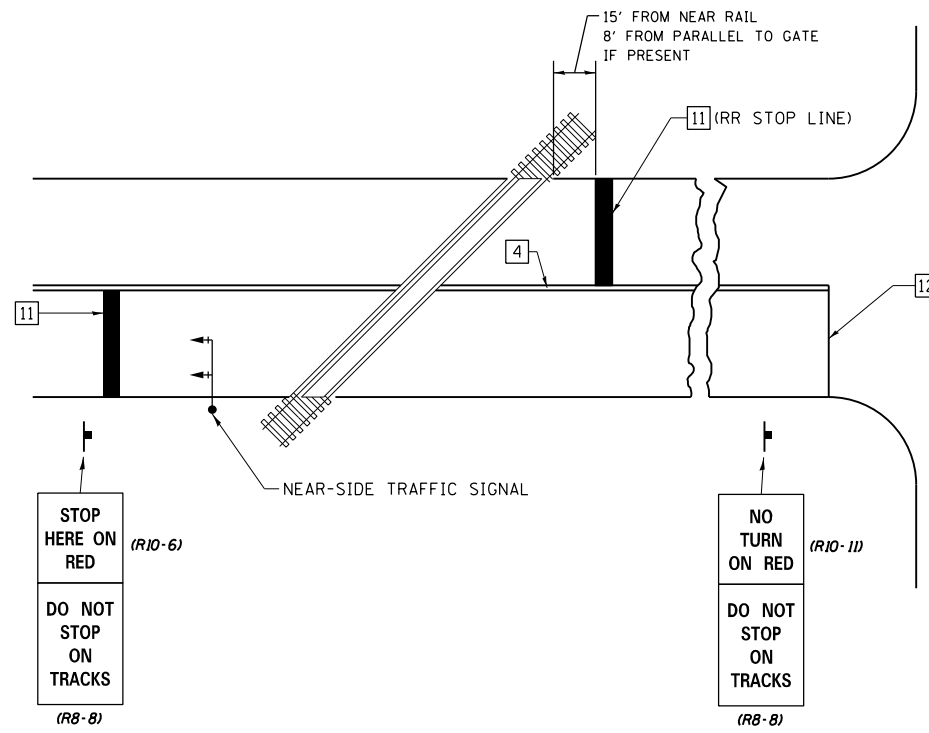
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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	PLOT DATE = 12/10/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

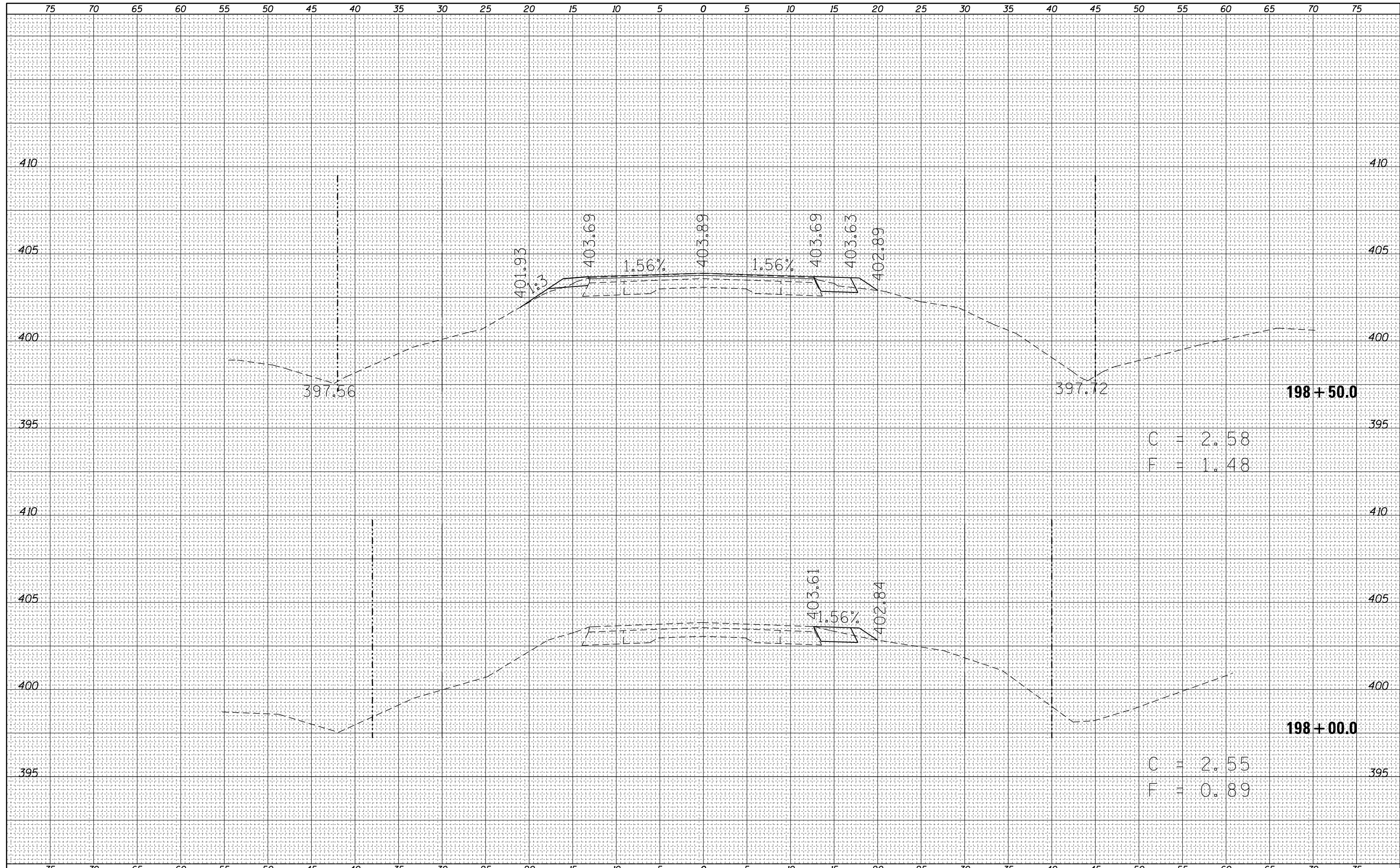
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DISTRICT 7 DETAIL NO. 78000001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)B-1	WAYNE	66	54
CONTRACT NO. 74223				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



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USER NAME = teasleyck
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REVISIED -
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 REVISIED -

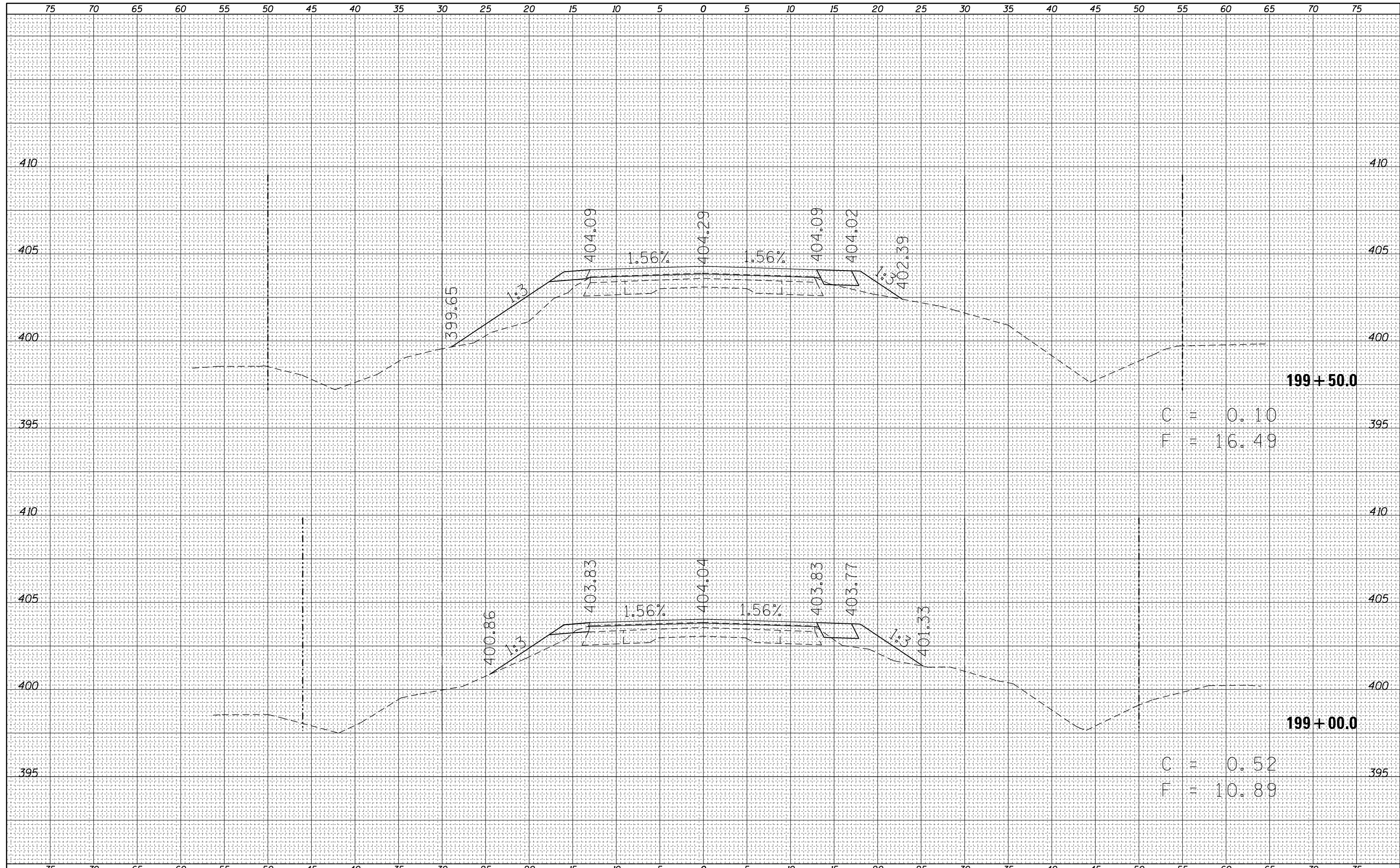
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 SCALE: 5 SHEET 1 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)-1	WAYNE	66	55
CONTRACT NO. 74223			ILLINOIS FED. AID PROJECT	

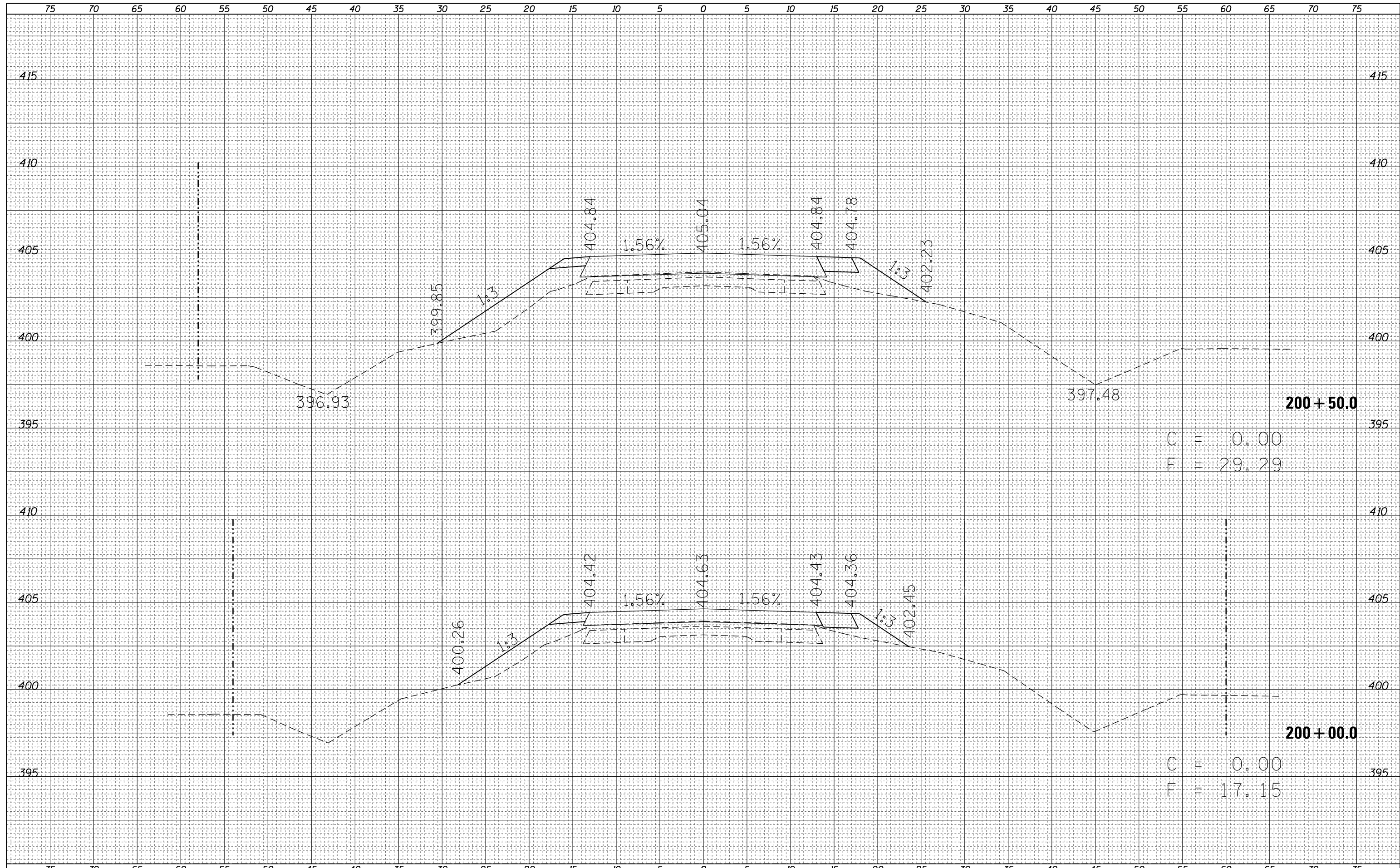
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



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

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



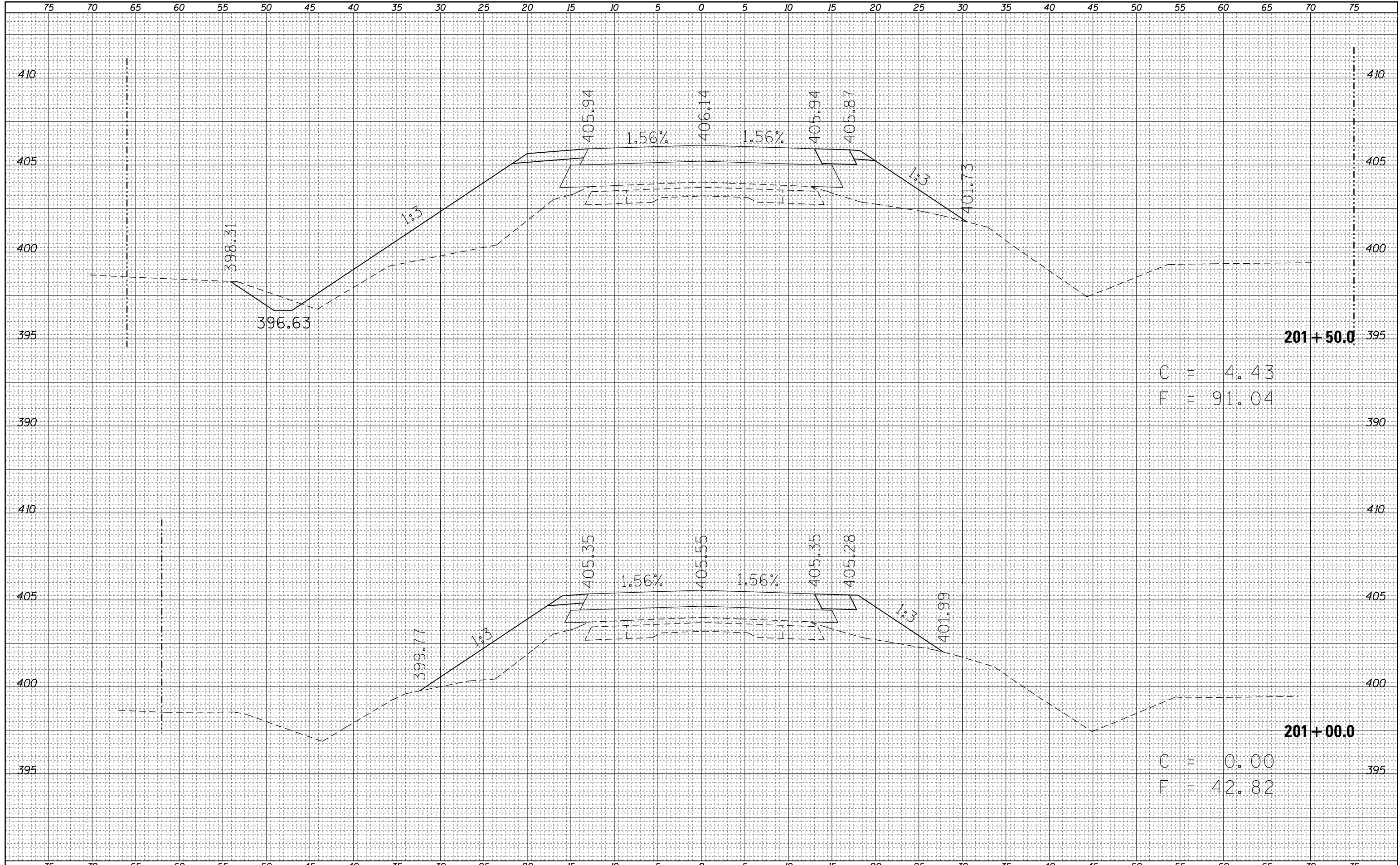
C = 0.00
F = 29.29

C = 0.00
F = 17.15

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwidot\teasleyck\dms61361\0774223-sh	DESIGNED -	REVISIED -	REVISIED -		776	(101B)-1	WAYNE	66	57				
Default	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -		SCALE: 5 SHEET 3 OF 12 SHEETS STA. TO STA.				CONTRACT NO. 74223				
	PLLOT DATE = 12/10/2014	DATE -	REVISIED -		ILLINOIS FED. AID PROJECT								

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

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



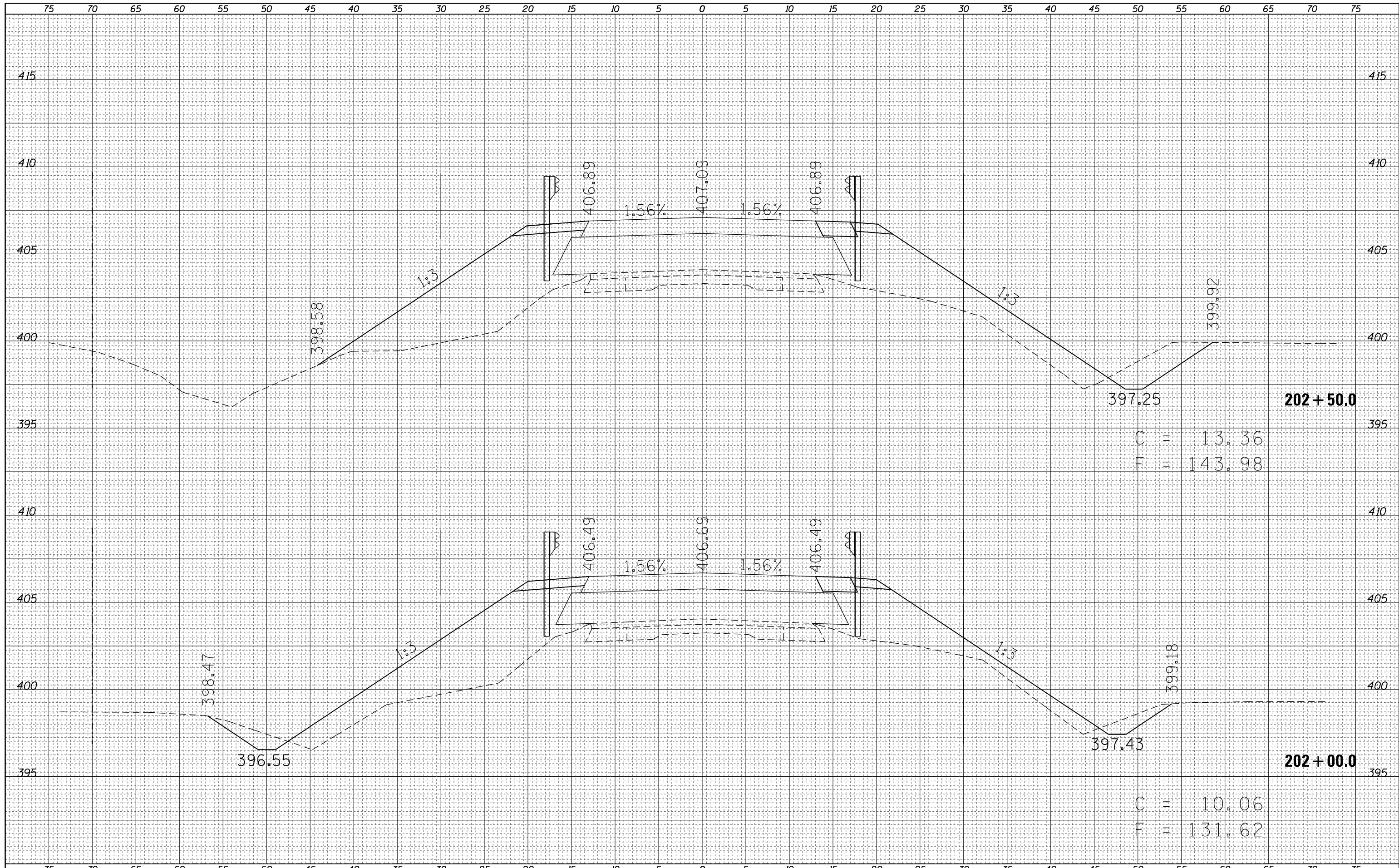
201 + 50.0
C = 4.43
F = 91.04

201 + 00.0
C = 0.00
F = 42.82

FILE NAME =		USER NAME = teasleyck	DESIGNED -	REVISIED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">CROSS SECTIONS</p> <p>SCALE: 5 SHEET 4 OF 12 SHEETS STA. TO STA.</p>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\p\wdot\teasleyck\dms61361\0774223-sh		DRAWN -	REVISIED -	776				(101B)-1	WAYNE	66	58	
PLOT SCALE = 10.0000' / in.		CHECKED -	REVISIED -	CONTRACT NO. 74223								
PLOT DATE = 12/10/2014		DATE -	REVISIED -	ILLINOIS FED. AID PROJECT								

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

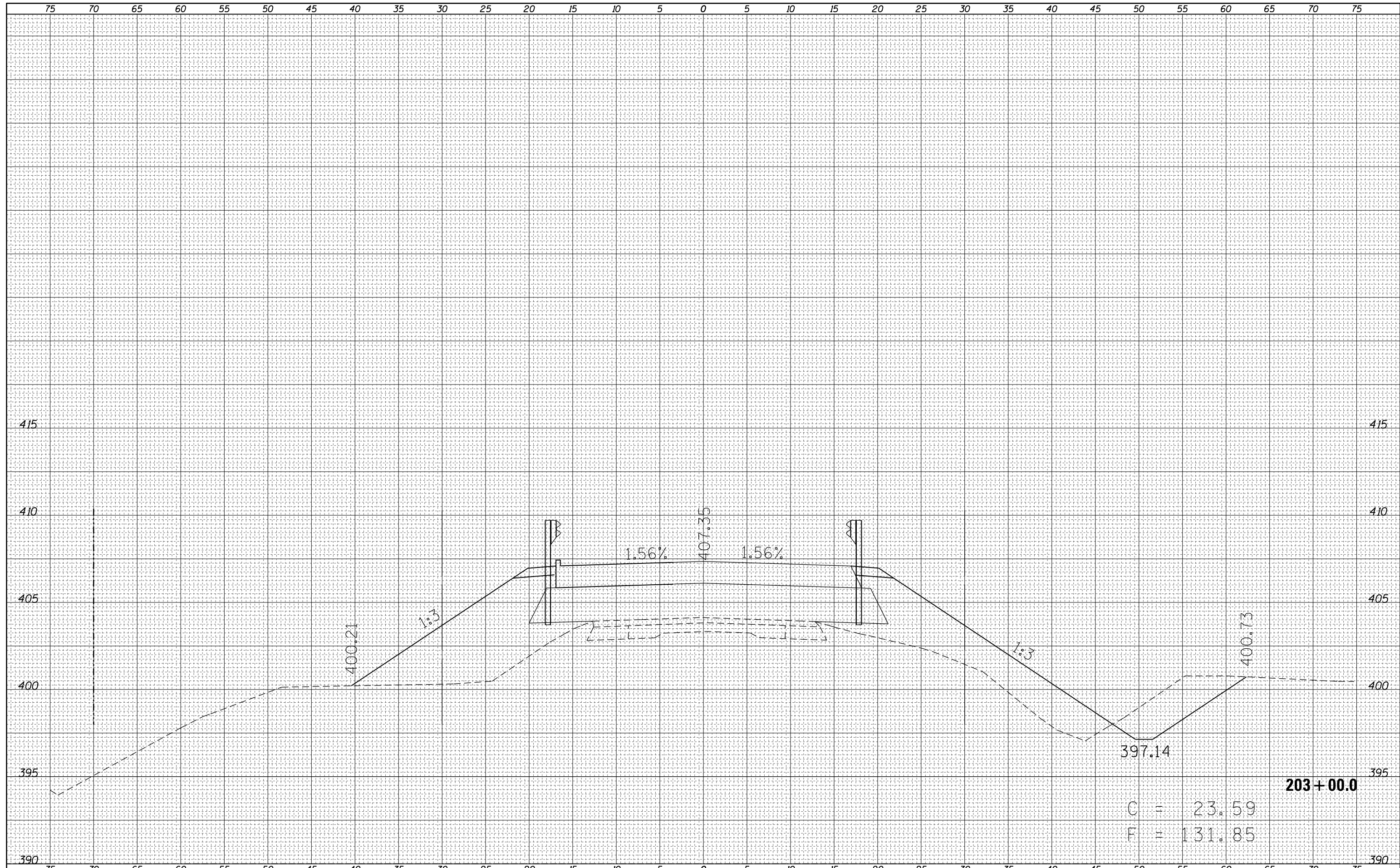
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		DRAWN -	REVISED -			SCALE: 5	SHEET 5 OF 12 SHEETS	STA.	TO STA.	776	(101B)-1	WAYNE	66
	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -							CONTRACT NO. 74223			
	PLOT DATE = 12/10/2014	DATE -	REVISED -							ILLINOIS FED. AID PROJECT			

DATE	4/10
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

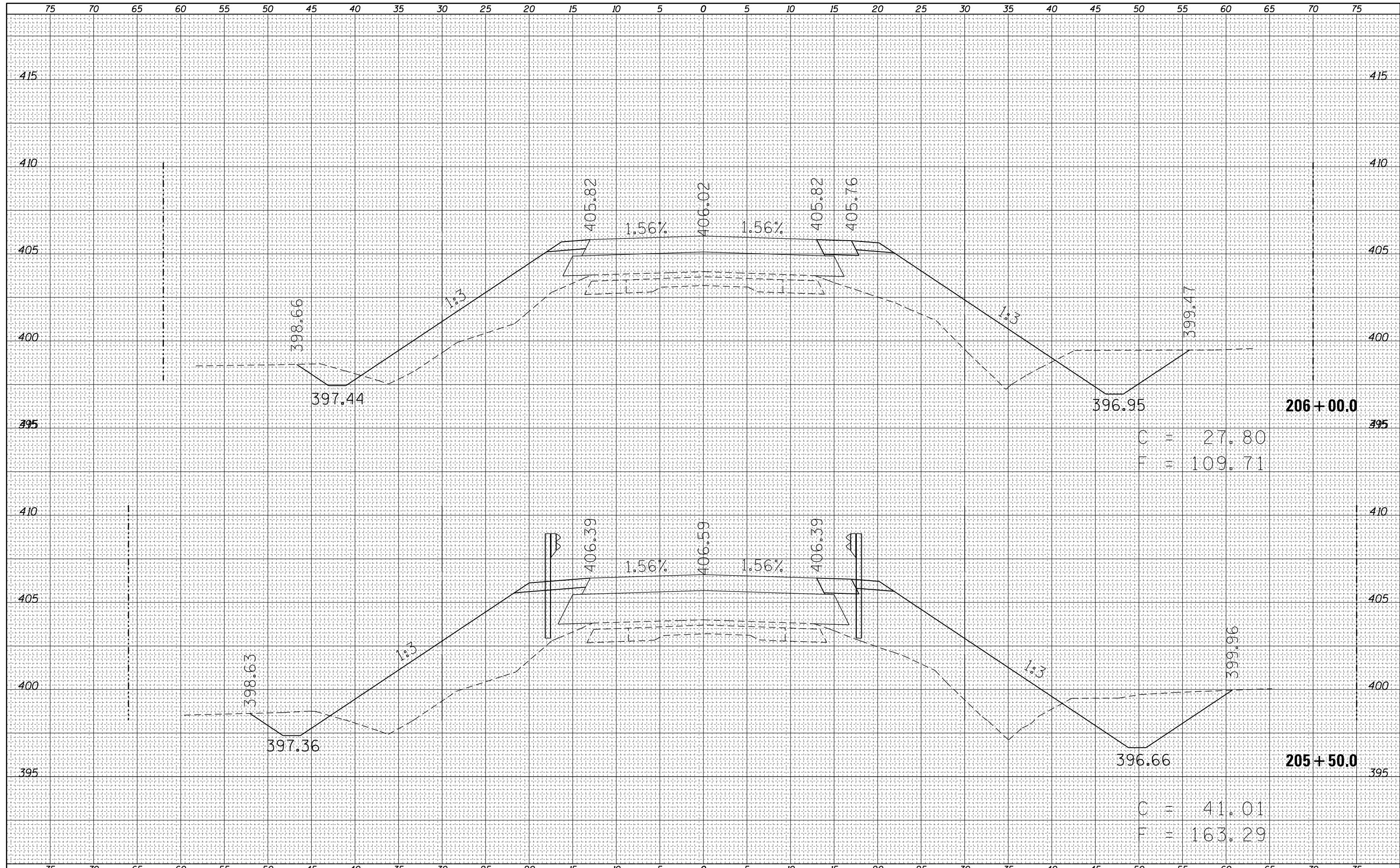
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\teasleyck\dms61361\0774223-sh	DRAWN -	REVISED -	REVISED -		776	(101B)-1	WAYNE	66	60				
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: 5 SHEET 6 OF 12 SHEETS STA. TO STA.				CONTRACT NO. 74223				
	PLOT DATE = 12/10/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

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

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



C = 27.80
F = 109.71

C = 41.01
F = 163.29

FILE NAME =
c:\pw_work\pwidot\teasleyck\dms61361\0774223-sh1-xssht.dgn

USER NAME = teasleyck
PLOT SCALE = 10.0000' / in.
PLOT DATE = 12/10/2014

DESIGNED -
DRAWN -
CHECKED -
DATE -

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

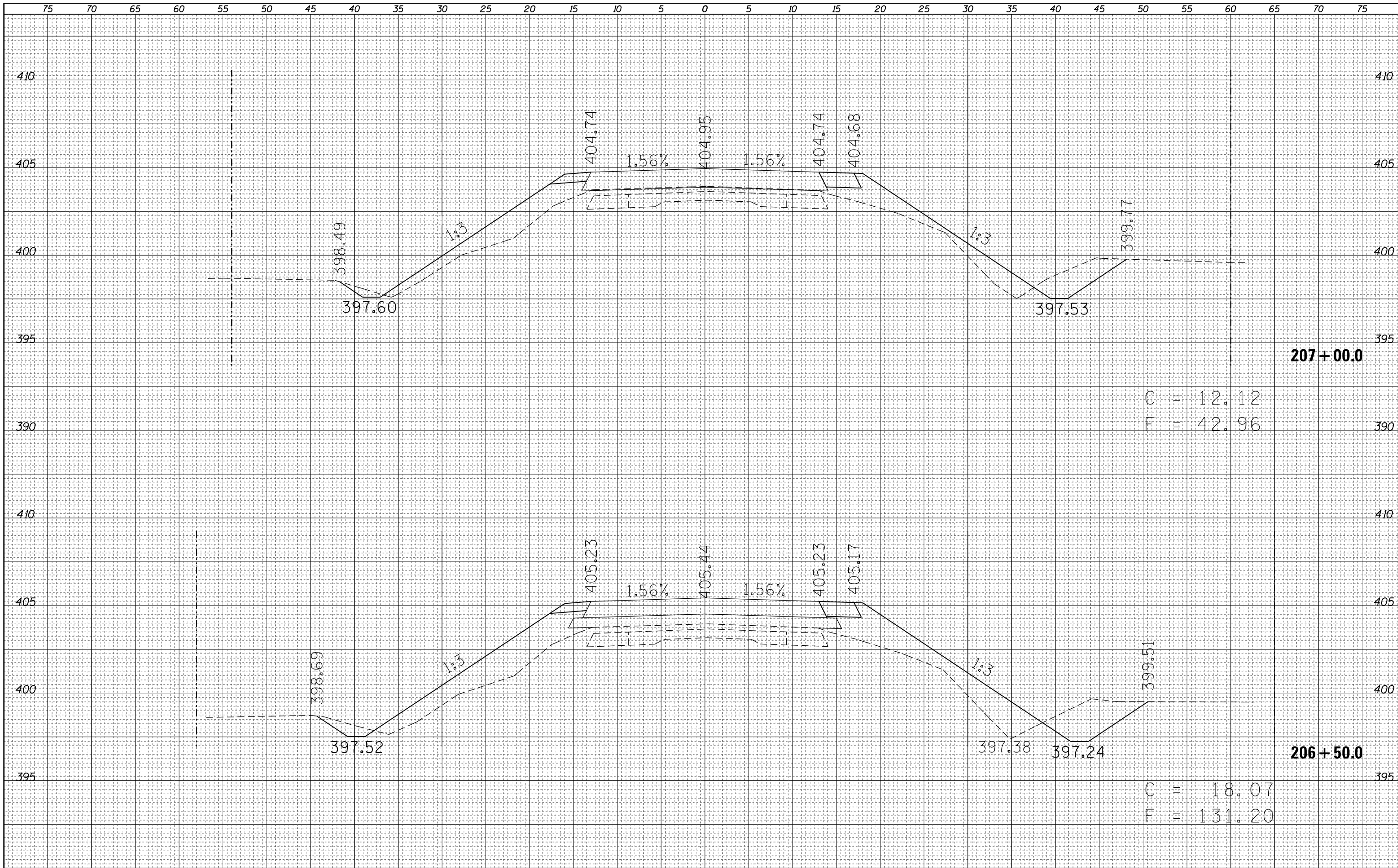
CROSS SECTIONS

SCALE: 5 SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)-1	WAYNE	66	62
CONTRACT NO. 74223			ILLINOIS FED. AID PROJECT	

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

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



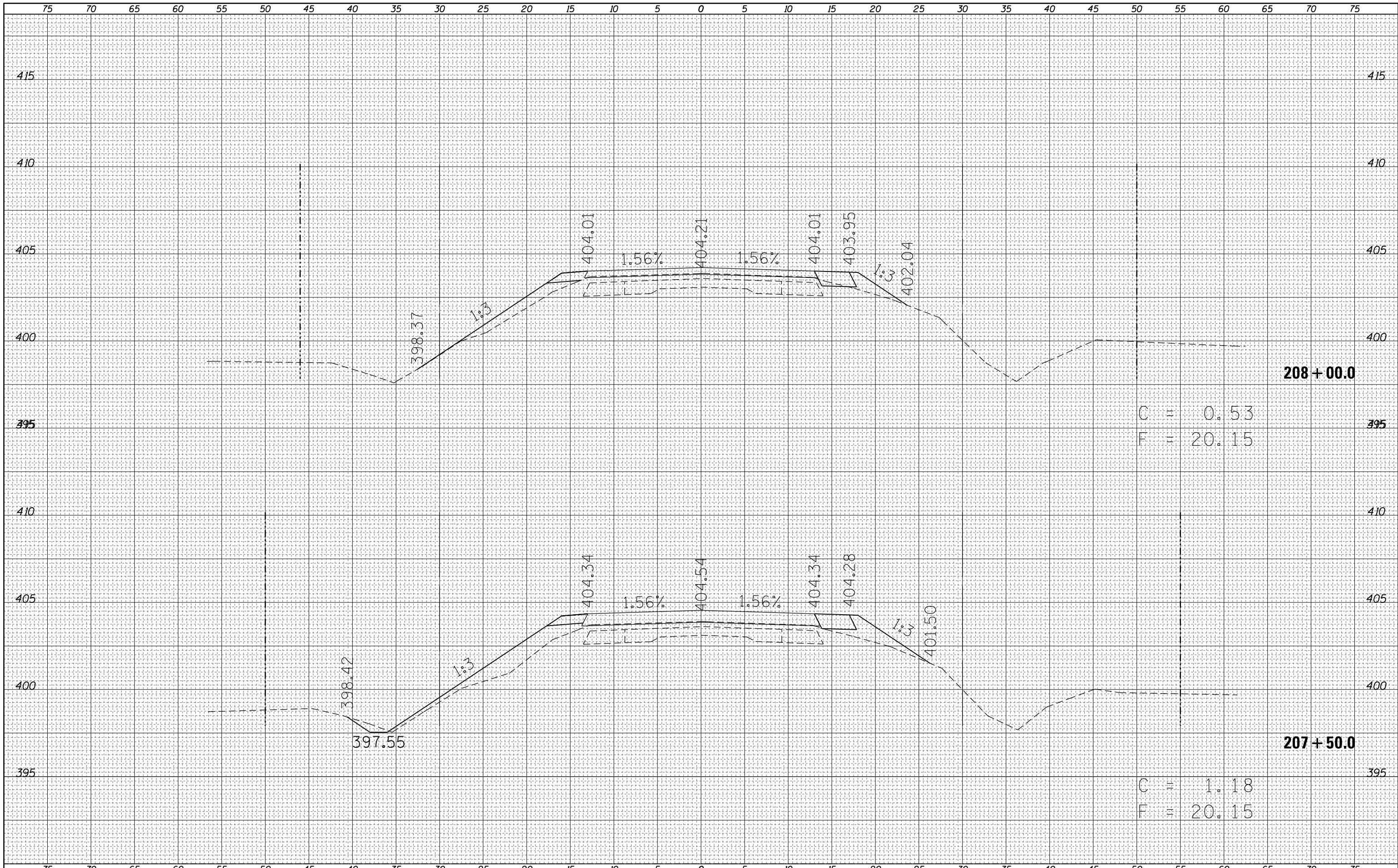
C = 12.12
F = 42.96

C = 18.07
F = 131.20

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwidot\teasleyck\dms61361\0774223-sh	DRAWN -	REVISD -	REVISD -						776	(101B)-1	WAYNE	66	63
Default	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISD -		CONTRACT NO. 74223								
	PLLOT DATE = 12/10/2014	DATE -	REVISD -		SCALE: 5	SHEET 9	OF 12 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

DATE	
BY	
SURVEYED	
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TEMPLATE	
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CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

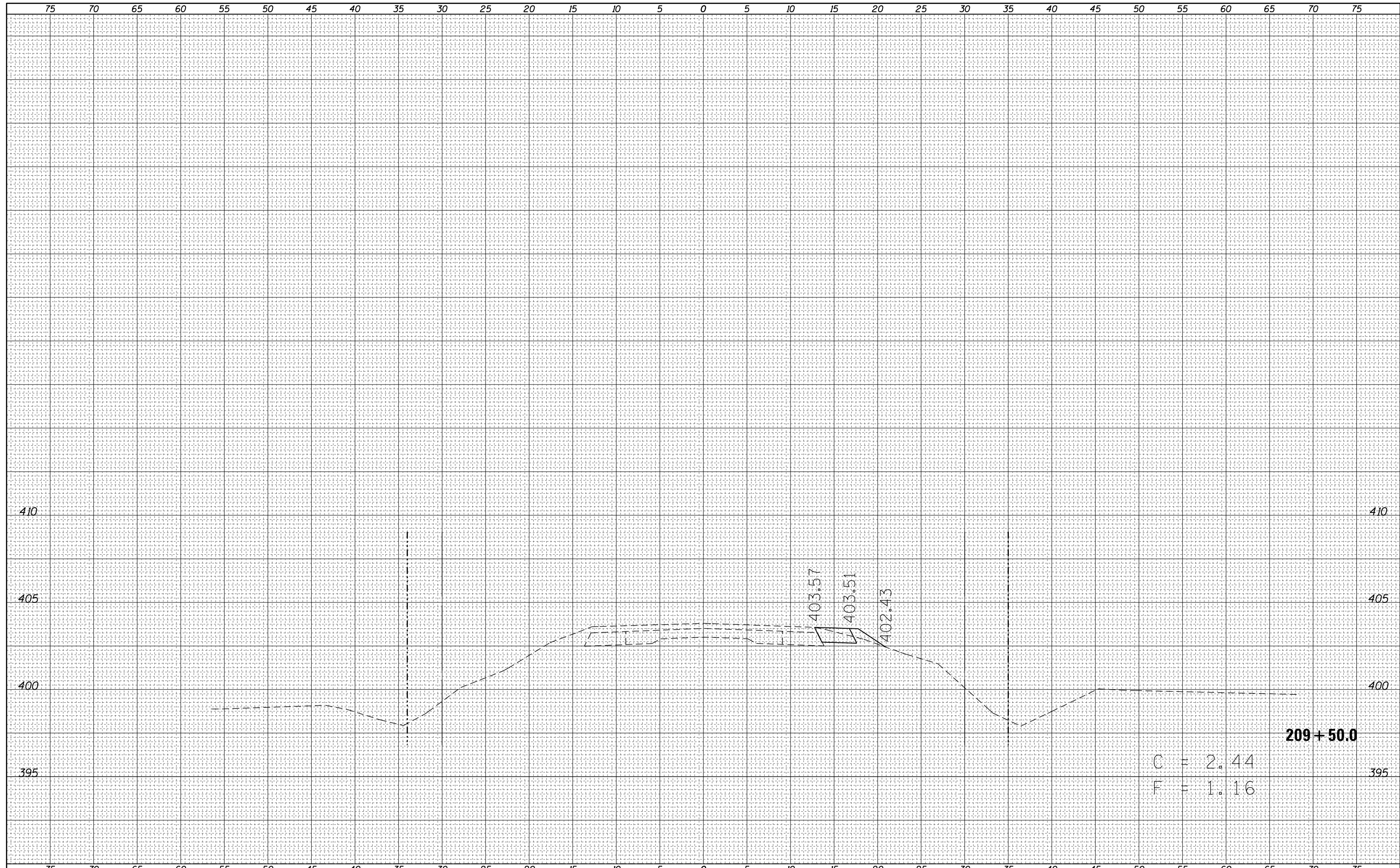
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwidot\teasleyck\dms61361\0774223-sh	DRAWN -	REVISIED -	REVISIED -		776	(101B)-1	WAYNE	66	64				
Default	PLLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -		SCALE: 5 SHEET 10 OF 12 SHEETS STA. TO STA.				CONTRACT NO. 74223				
	PLLOT DATE = 12/10/2014	DATE -	REVISIED -		ILLINOIS FED. AID PROJECT								

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

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



FILE NAME =
 c:\pw_work\pwidot\teasleyck\dms61361\0774223-sh...
 Default

USER NAME = teasleyck
 DESIGNED -
 DRAWN -
 PLOT SCALE = 10.0000' / in.
 CHECKED -
 PLOT DATE = 12/10/2014
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 SCALE: 5 SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	(101B)-1	WAYNE	66	66
CONTRACT NO. 74223			ILLINOIS FED. AID PROJECT	