

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.S. ROUTE 1806 (IL. RTE. 250)
SECTION 2B-1

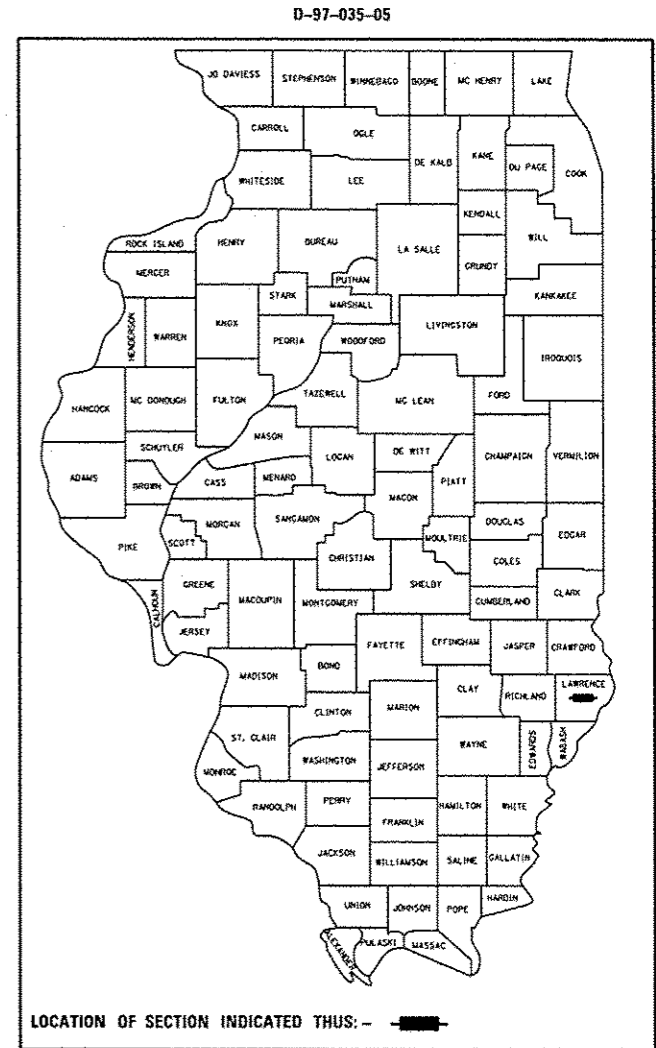
PROJECT : *ACRS-1806(001)*
BRIDGE REPLACEMENT
LAWRENCE COUNTY

C-97-070-05

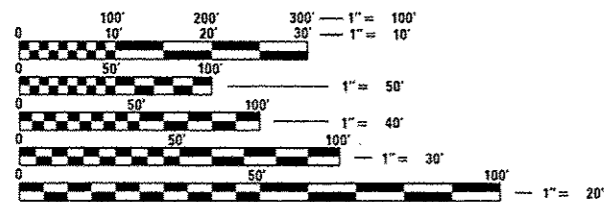
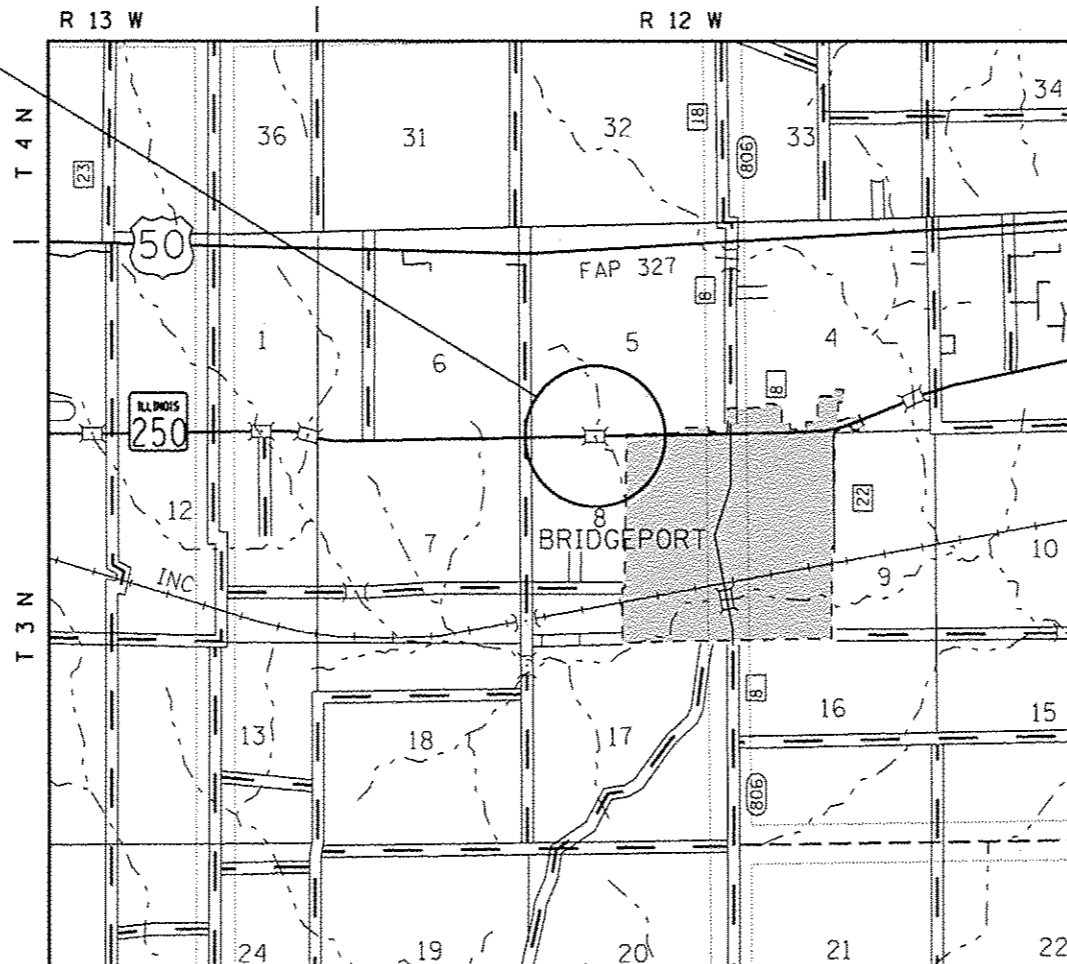
FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 2400 (2014)

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	2B-1	LAWRENCE	59	1
		ILLINOIS	CONTRACT NO. 74106	



F.A.S. RTE. 1806 (IL. RTE. 250)
SECTION 2B-1
LAWRENCE COUNTY
STRUCTURE 051-0065
STATION 235 + 10



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: JENNIFER SHULL
PHONE: (217)-342-8361
CONTRACT NO. 74106

GROSS LENGTH = 1128.05 FT. = 0.21 MILE
NET LENGTH = 1128.05 FT. = 0.21 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *August 02 20 16*
Jeffery A. Smith
REGIONAL ENGINEER

Sept 30 20 16
Mohammed M. Ades P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Sept 30 20 16
David J. [Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 60:

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
406201-01	MAILBOX TURNOUT
420401-12	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601101-02	CONCRETE HEADWALL FOR PIPE DRAINS
606201-03	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-14	TRAFFIC BARRIER TERMINAL, TYPE 6
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
701011-04	OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701901-05	TRAFFIC CONTROL DEVICES
725001	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

FILE NAME :	USER NAME : staffannk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS	F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 2		
Default	pw\N\1804E810INTEG.illinois.gov\WIDOT\Do	ments\DDOT Offices\District 7\Projects\74166	DRAWN	CA\Sheets\0774186\sh-index.dwg	SCALE: N/A	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 74106

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED ON FAS ROUTE 1806 (ILLINOIS ROUTE 250) IN LAWRENCE COUNTY, APPROXIMATELY 0.7 MILES WEST OF BRIDGEPORT, AT EXISTING STRUCTURE NUMBER 051-0051. THE WORK INCLUDED IN SECTION 2B-1 CONSISTS OF REMOVING THE EXISTING SINGLE SPAN REINFORCED CONCRETE DECK SLAB STRUCTURE AND REPLACING IT WITH A SINGLE SPAN REINFORCED CONCRETE SLAB BRIDGE ON INTEGRAL ABUTMENTS, APPROACH PAVEMENTS, FLEXIBLE CONNECTORS, HOT-MIX ASPHALT RESURFACING, EARTHWORK, GUARDRAIL, PAVEMENT MARKING AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

IN ADDITION TO SURVEYS, SOME OF THE PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING CONDITIONS HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY SUCH DIMENSIONS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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 UTILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123. IN ADDITION, THE CONTRACTOR SHALL CONTACT REX ENERGY PROVIDING A MINIMUM OF 96 ADVANCE NOTICE. REX ENERGY CONTACT INFORMATION:

AJ STEWART
 PRODUCTION ENGINEER, ILLINOIS REGION
 P.O. BOX 318
 BRIDGEPORT, ILLINOIS 62417
 OFFICE 618-943-8700 EXT 124
 CELL 618-317-1266
 astewart@rexenergycorp.com

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

ALL EXCAVATION ABOVE THE BOTTOM OF THE RIPRAP EXCAVATION LINE SHALL BE INCLUDED IN THE COST OF STONE RIPRAP, CLASS A4 AND NO ADDITIONAL COMPENSATION WILL BE PERMITTED.

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

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.

PAINT PAVEMENT MARKING-LINE 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSISTS OF 2256 FEET OF WHITE AND 280 FEET OF YELLOW.

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 14 TWO-WAY AMBER MARKERS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE) CONSISTS OF 1 TWO-WAY AMBER MARKERS.

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE.

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 60' 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

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 * staffamnk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE * 100.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 74106					
	PLOT DATE * 8/2/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: N/A	SHEET 1 OF 1 SHEETS		STA. TO STA.			

SUMMARY OF QUANTITIES			80% FED, 20% STATE TOTAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	QUANTITIES	0011		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	51	51		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	45	45		
20200100	EARTH EXCAVATION	CU YD	495	495		
20400800	FURNISHED EXCAVATION	CU YD	355	355		
20600200	GRANULAR EMBANKMENT, SPECIAL	CU YD	104	104		
25000200	SEEDING, CLASS 2	ACRE	0.8	0.8		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	74	74		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	74	74		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	74	74		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.6	1.6		
25100115	MULCH, METHOD 2	ACRE	0.8	0.8		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	82	82		
28000305	TEMPORARY DITCH CHECKS	FOOT	60	60		
28000400	PERIMETER EROSION BARRIER	FOOT	990	990		

SUMMARY OF QUANTITIES			80% FED, 20% STATE TOTAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	QUANTITIES	0011		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
28100107	STONE RIPRAP, CLASS A4	SQ YD	381	381		
28200200	FILTER FABRIC	SQ YD	381	381		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	120	120		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1893	1893		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1758	1758		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	897	897		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	590	590		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	269	269		
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	421	421		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	84	84		
44000100	PAVEMENT REMOVAL	SQ YD	234	234		
44000400	GUTTER REMOVAL	FOOT	1037	1037		

FILE NAME =	USER NAME = gtaffanuk	DESIGNED -	REVISED -
p:\N\1804E\BID\INTEG.illinois.gov\PI\00T\Do	uments\100T Offices\District 7\Projects\7410	6074106\CD\Sheets\0774106-shr\soq.dgn	REVISED -
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 8/2/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 4
CONTRACT NO. 74106				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	682	682		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50105220	PIPE CULVERT REMOVAL	FOOT	55	55		
50200100	STRUCTURE EXCAVATION	CU YD	165	165		
50300225	CONCRETE STRUCTURES	CU YD	54.7	54.7		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	83.5	83.5		
50300260	BRIDGE DECK GROOVING	SO YD	400	400		
50300280	CONCRETE ENCASEMENT	CU YD	4.2	4.2		
50300300	PROTECTIVE COAT	SO YD	510	510		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	116.7	116.7		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	738	738		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	51295	51295		
50800515	BAR SPLICERS	EACH	78	78		

SUMMARY OF QUANTITIES			80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
51201600	FURNISHING STEEL PILES HP12X53	FOOT	457	457		
51202305	DRIVING PILES	FOOT	457	457		
51203600	TEST PILE STEEL HP12X53	EACH	2	2		
51500100	NAME PLATES	EACH	1	1		
52100520	ANCHOR BOLTS, 1"	EACH	24	24		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4		
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	205	205		
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	48	48		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4		
60100905	PIPE DRAINS 4"	FOOT	80	80		
60600095	CLASS S1 CONCRETE (OUTLET)	CU YD	21	21		
60602800	CONCRETE GUTTER, TYPE B	FOOT	826	826		
61000050	CONCRETE THRUST BLOCKS	EACH	4	4		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
*63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100		
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
*63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	388	388		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8		
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	2	2		
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1		
*66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	7	7		
*66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1		
*66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	LSUM	1	1		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1		
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	112	112		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	37	37		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2536	2536		
*72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2536	2536		
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14		
*78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	1	1		
*78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8		
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	845	845		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1		
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	3	3		

12
*Specialty Items

FILE NAME :	USER NAME :	DESIGNED -	REVISOR -	STATE OF ILLINOIS		SUMMARY OF QUANTITIES		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1184EBID\TEG\Illinois.gov\PI\DOT\06	stefanmk	06/11/2015	06/11/2015	DEPARTMENT OF TRANSPORTATION		SCALE: N/A SHEET 3 OF 4 SHEETS STA. TO STA.		1806	28-1	LAWRENCE	59	6
Default	PLOT SCALE = 1/8" = 1' / in.	CHECKED -	REVISOR -					CONTRACT NO. 74106				
	PLOT DATE = 8/2/2015	DATE -	REVISOR -					ILLINOIS FED. AID PROJECT				

Rev.

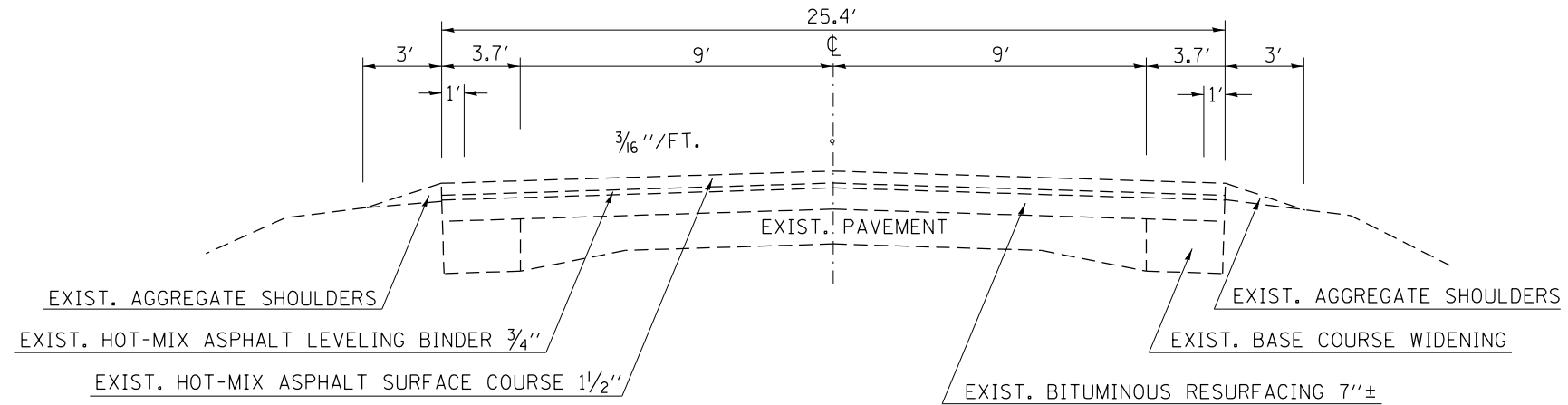
SUMMARY OF QUANTITIES			80% FED, 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0011		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	1505	1505		
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	84.1	84.1		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
Z0004638	PAVEMENT BREAKING	SO YD	477	477		
Z0016702	DETOUR SIGNING	LSUM	1	1		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	139	139		
Z0049799	PROTECTING OR RESETTING SURVEY MARKERS	EACH	2	2		
Z0070202	SURVEY MARKER VAULT	EACH	2	2		

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0011		

8

EXISTING TYPICAL CROSS SECTION

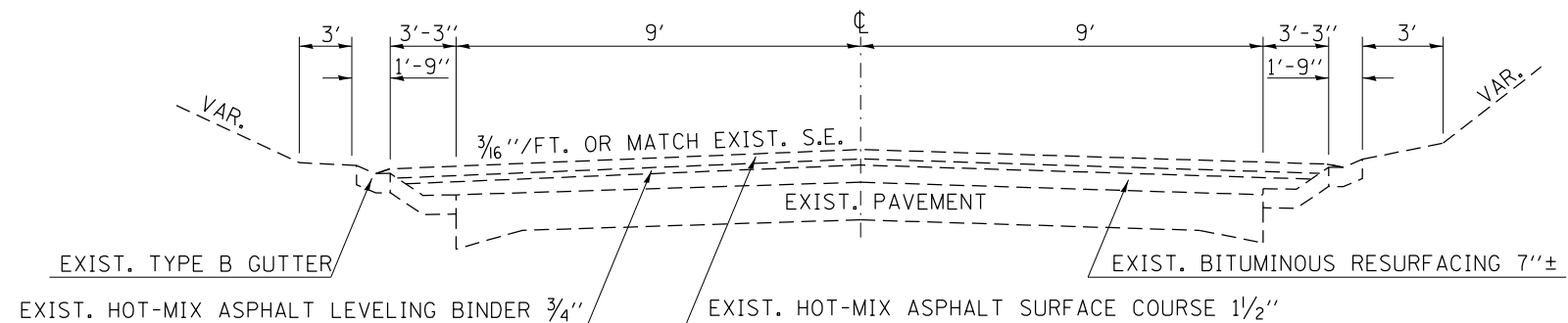
STA. 132+00 TO STA. 236+00



NOTE: NOT TO SCALE

EXISTING TYPICAL CROSS SECTION

STA. 236+00 TO STA. 256+34

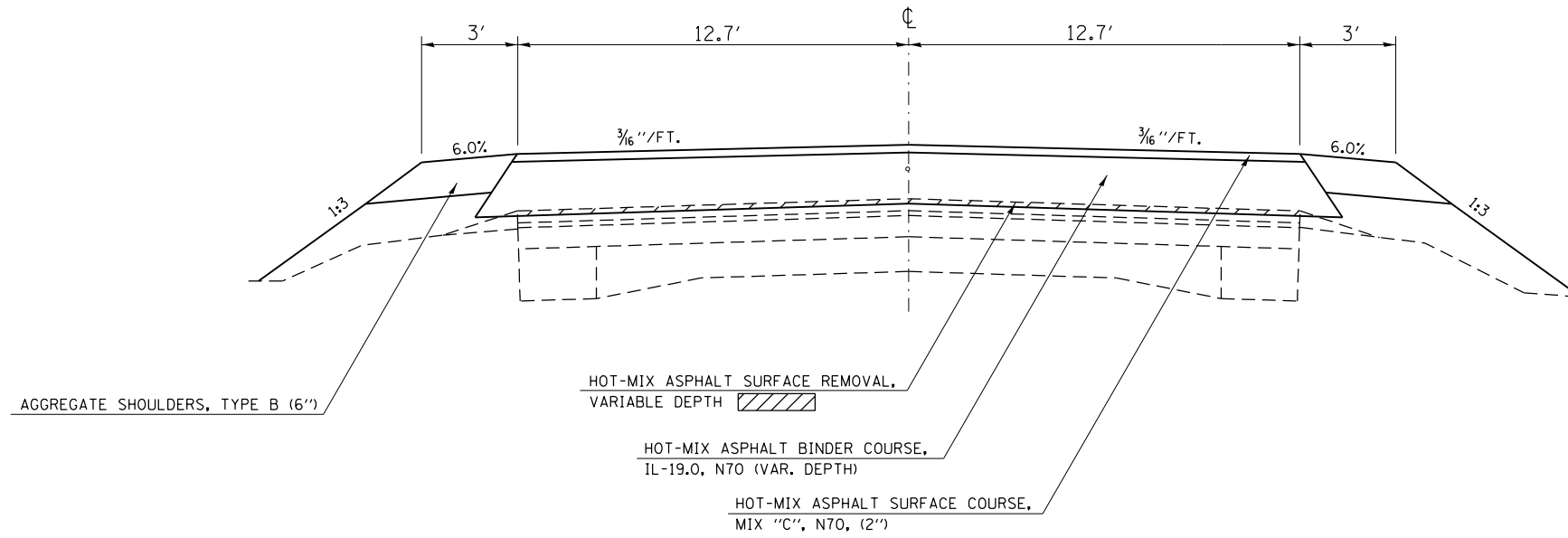


NOTE: NOT TO SCALE

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTIONS			F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74106\DRAWING\CA\Sheets\0774106-shr-typicals.dwg	DATE = 8/2/2016	CHECKED -	REVISED -					1806	2B-1	LAWRENCE	59	8
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: N/A			SHEET 1 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 74106		
					ILLINOIS FED. AID PROJECT							

PROPOSED TYPICAL CROSS SECTION

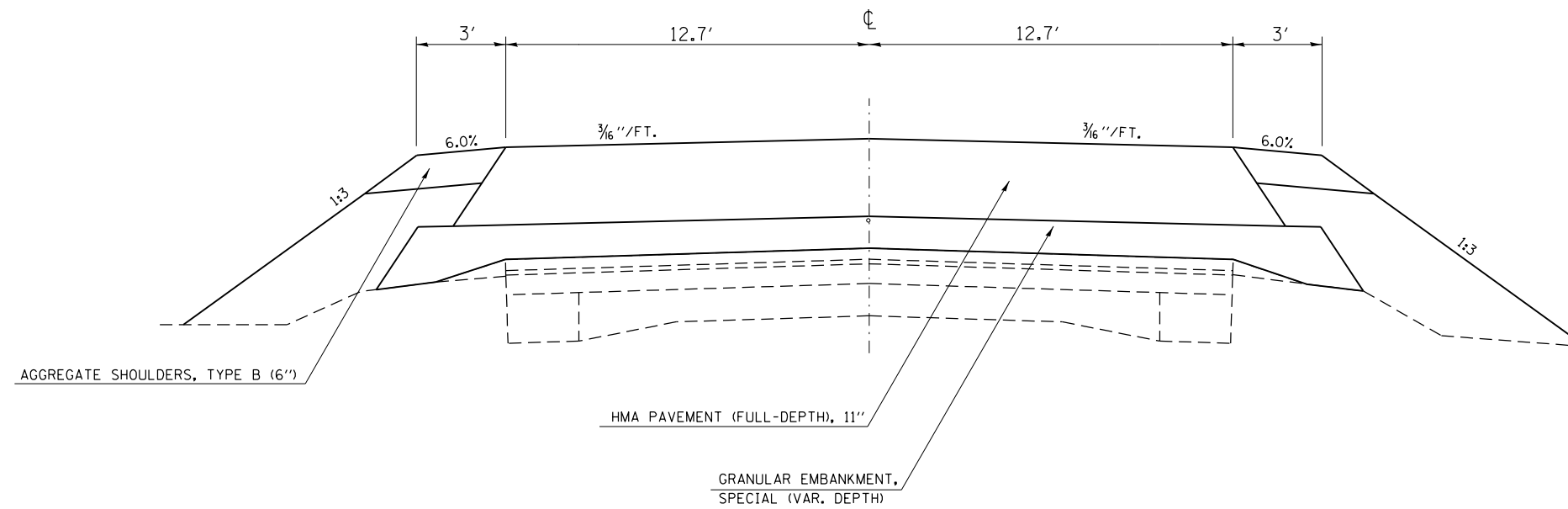
STA. 229+34.9 TO STA. 234+09.6



NOTE: NOT TO SCALE

PROPOSED TYPICAL CROSS SECTION

STA. 234+09.6 TO STA. 234+57.5

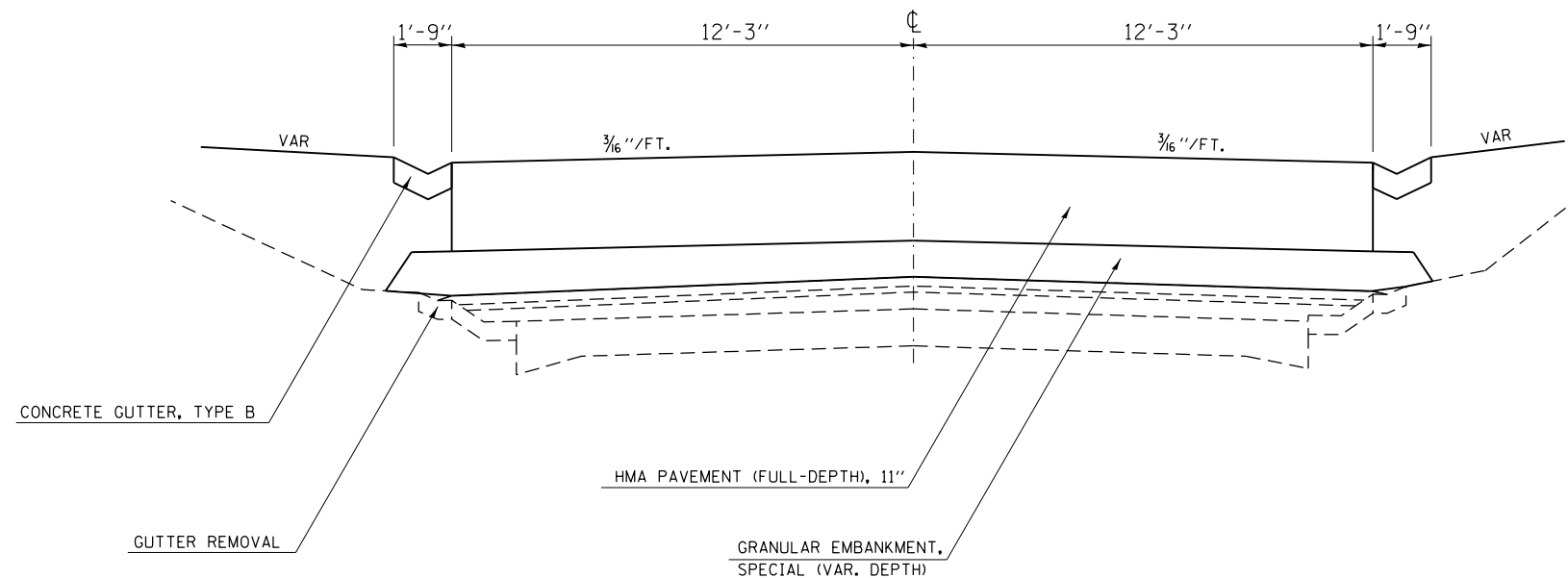


NOTE: NOT TO SCALE

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTIONS			F.A.S. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74106\DRAWING\CA\Sheets\0774106-shr-typicals.dwg		CHECKED -	REVISED -		1806	2B-1	LAWRENCE	59	9			
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		CONTRACT NO. 74106			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/2/2016				SCALE: N/A	SHEET 2 OF 3 SHEETS	STA.	TO STA.				

PROPOSED TYPICAL CROSS SECTION

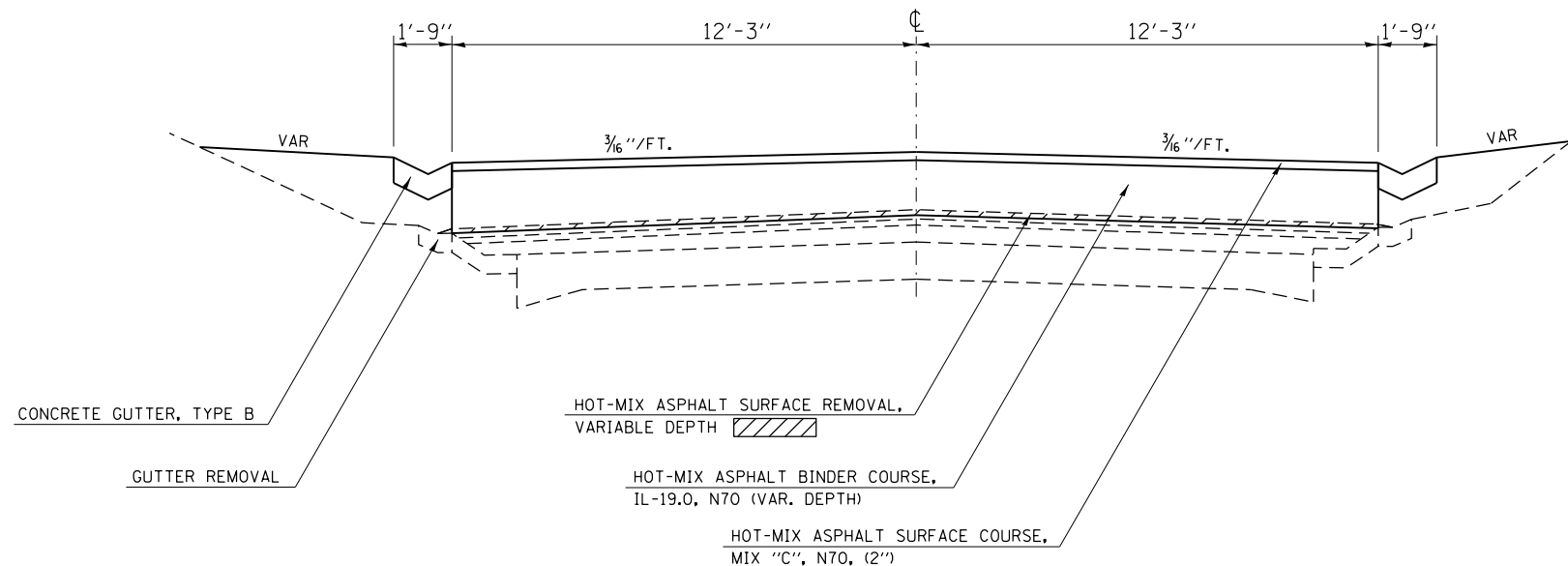
STA. 235+62.5 TO STA. 236+84.04



NOTE: NOT TO SCALE

PROPOSED TYPICAL CROSS SECTION

STA. 236+84.04 TO STA. 240+62.95



NOTE: NOT TO SCALE

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74106\DRAWING\CA\Sheets\0774106-shr-typicals.dgn		CHECKED -	REVISED -		SCALE: N/A	SHEET 3	OF 3	SHEETS	STA.	TO STA.	1806	2B-1	LAWRENCE	59	10
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -								CONTRACT NO. 74106				
	PLOT DATE = 8/2/2016										ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE

STATION TO STATION	LENGTH	PAVEMENT BREAKING	PAVEMENT REMOVAL	GRANULAR EMBANKMENT, SPECIAL	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	AGGREGATE SHOULDERS, TYPE B 6"	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	GUTTER REMOVAL	CONCRETE GUTTER, TYPE B	CLASS SI CONCRETE (OUTLET)
	FOOT	SO YD	SO YD	CU YD	SO YD	POUND	POUND	TON	TON	SO YD	SO YD	SO YD	SO YD	FOOT	FOOT	CU YD
229+34.90 TO 230+56.90	122.0	0.0	0.0	0.0	0.0	0.0	154.5	0.0	38.5	0.0	81.3	0.0	343.4	0.0	0.0	0.0
230+56.90 TO 234+09.60	352.7	0.0	0.0	0.0	0.0	0.0	893.4	389.1	111.2	0.0	235.1	992.7	0.0	0.0	0.0	0.0
234+09.60 TO 234+47.50	37.9	106.7	0.0	20.9	106.7	480.0	0.0	0.0	0.0	0.0	25.3	0.0	0.0	0.0	0.0	0.0
234+47.50 TO 234+57.50	10.0	28.1	0.0	8.7	0.0	0.0	0.0	0.0	0.0	42.0	6.7	0.0	0.0	0.0	0.0	0.0
234+57.50 TO 235+62.50	105.0	0.0	233.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5	0.0	3.4
235+62.50 TO 235+72.50	10.0	28.1	0.0	9.3	0.0	0.0	0.0	0.0	0.0	42.0	6.7	0.0	0.0	20.0	0.0	1.6
235+72.50 TO 236+84.04	111.5	313.9	0.0	64.6	313.9	1412.7	0.0	0.0	0.0	0.0	74.4	0.0	0.0	223.1	68.1	16.4
236+84.04 TO 238+66.10	182.1	0.0	0.0	0.0	0.0	0.0	461.2	200.9	57.4	0.0	121.4	512.4	0.0	364.1	364.1	0.0
238+66.10 TO 240+62.95	196.9	0.0	0.0	0.0	0.0	0.0	249.3	0.0	62.1	0.0	131.2	0.0	554.0	393.7	393.7	0.0
TOTALS		477.0	234.0	104.0	421.0	1893.0	1758.0	590.0	269.0	84.0	682.0	1505.0	897.0	1037.0	826.0	21.0

PAVEMENT MARKING SCHEDULE

STATION TO STATION	LENGTH	PAINT PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	SHORT-TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)
	FOOT	FOOT	FOOT	FOOT	SO FT	SO FT	EACH	EACH
229+34.90 TO 234+87.50	552.6	1245.2	1245.2	56.0	18.7	415.1	7.0	0.0
234+87.50 TO 235+32.50	45.0	100.0	100.0	4.0	1.3	33.3	0.0	1.0
235+32.50 TO 240+62.95	530.5	1190.9	1190.9	52.0	17.3	397.0	7.0	0.0
TOTALS		2536.1	2536.1	112.0	37.3	845.4	14.0	1.0

GUARDRAIL SCHEDULE

LOCATION	GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKERS - DIRECT APPLIED
	FOOT	EACH	FOOT	EACH	EACH	EACH
SN 051-0065						
SOUTHEAST CORNER	100.0	1.0	0.0	1.0	2.0	1.0
NORTHEAST CORNER	100.0	1.0	50.0	1.0	2.0	1.0
BRIDGE						
SOUTHWEST CORNER	100.0	1.0	50.0	1.0	2.0	1.0
NORTHWEST CORNER	88.0	1.0	0.0	1.0	2.0	1.0
TOTALS=	388.0	4.0	100.0	4.0	8.0	4.0

SEEDING SCHEDULE

STATION TO STATION	SEEDING, CLASS 2 ACRE	TEMPORARY EROSION CONTROL SEEDING POUND	NITROGEN FERTILIZER NURTIENT POUND	PHOSPHORUS FERTILIZER NURTIENT POUND	POTASSIUM FERTILIZER NURTIENT POUND	MULCH, METHOD 2 ACRE	AGRICULTURAL GROUND LIMESTONE TON
IL 242							
229+50.0 TO 230+00.0	0.04	4.00	3.60	3.60	3.60	0.04	0.08
230+00.0 TO 230+50.0	0.06	6.00	5.40	5.40	5.40	0.06	0.12
230+50.0 TO 231+00.0	0.06	6.00	5.40	5.40	5.40	0.06	0.12
231+00.0 TO 231+50.0	0.05	5.00	4.50	4.50	4.50	0.05	0.10
231+50.0 TO 232+00.0	0.04	4.00	3.60	3.60	3.60	0.04	0.08
232+00.0 TO 232+50.0	0.04	4.00	3.60	3.60	3.60	0.04	0.08
232+50.0 TO 233+00.0	0.04	4.00	3.60	3.60	3.60	0.04	0.08
233+00.0 TO 233+50.0	0.04	4.00	3.60	3.60	3.60	0.04	0.08
233+50.0 TO 234+00.0	0.05	5.00	4.50	4.50	4.50	0.05	0.10
234+00.0 TO 234+50.0	0.06	6.00	5.40	5.40	5.40	0.06	0.12
234+50.0 TO 234+87.5	0.05	5.00	4.50	4.50	4.50	0.05	0.10
235+32.5 TO 236+00.0	0.06	6.00	5.40	5.40	5.40	0.06	0.12
236+00.0 TO 236+50.0	0.05	5.00	4.50	4.50	4.50	0.05	0.10
236+50.0 TO 237+00.0	0.03	3.00	2.70	2.70	2.70	0.03	0.06
237+00.0 TO 237+50.0	0.03	3.00	2.70	2.70	2.70	0.03	0.06
237+50.0 TO 238+00.0	0.02	2.00	1.80	1.80	1.80	0.02	0.04
238+00.0 TO 238+50.0	0.02	2.00	1.80	1.80	1.80	0.02	0.04
238+50.0 TO 239+00.0	0.02	2.00	1.80	1.80	1.80	0.02	0.04
239+00.0 TO 239+50.0	0.02	2.00	1.80	1.80	1.80	0.02	0.04
239+50.0 TO 240+00.0	0.02	2.00	1.80	1.80	1.80	0.02	0.04
240+00.0 TO 240+50.0	0.02	2.00	1.80	1.80	1.80	0.02	0.04
TOTAL =	0.8	82.0	74.0	74.0	74.0	0.8	1.6

EARTHWORK SCHEDULE

STATION TO STATION	EARTH EXCAVATION CU YD	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) CU YD	EARTH FILL CU YD	EARTHWORK BALANCE, WASTE (+) OR SHORTAGE (-) CU YD
229+50.00 TO 230+00.00	28.5	21.4	4.7	16.7
230+00.00 TO 230+50.00	73.8	55.4	8.1	47.3
230+50.00 TO 231+00.00	74.1	55.5	7.2	48.4
231+00.00 TO 231+50.00	47.9	35.9	8.2	27.7
231+50.00 TO 232+00.00	31.7	23.8	12.0	11.8
232+00.00 TO 232+50.00	23.0	17.3	16.3	0.9
232+50.00 TO 233+00.00	29.2	21.9	18.8	3.1
233+00.00 TO 233+50.00	21.5	16.1	49.9	-33.8
233+50.00 TO 234+00.00	6.5	4.9	105.8	-100.9
234+00.00 TO 234+50.00	9.5	7.1	148.1	-141.0
234+50.00 TO 234+87.50	8.6	6.5	123.3	-116.8
BRIDGE	134.6	101.0	0.0	101.0
235+32.50 TO 236+00.0	0.0	0.0	100.9	-100.9
236+00.00 TO 236+50.0	0.0	0.0	64.1	-64.1
236+50.00 TO 237+00.0	2.1	1.5	34.5	-32.9
237+00.00 TO 237+50.0	2.1	1.5	13.2	-11.6
237+50.00 TO 238+00.0	0.0	0.0	6.8	-6.8
238+00.00 TO 238+50.0	0.0	0.0	1.9	-1.9
238+50.00 TO 239+00.0	0.0	0.0	0.7	-0.7
239+00.00 TO 239+50.0	0.3	0.3	0.6	-0.3
239+50.00 TO 240+00.0	0.7	0.5	0.5	0.0
240+00.00 TO 240+50.0	0.4	0.3	0.1	0.1
TOTALS =	495.0	371.0	726.0	-355.0

DRAINAGE SCHEDULE

LOCATION	PIPE CULVERT REMOVAL FOOT	PIPE CULVERTS, CLASS A, TYPE 1 24" FOOT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" EACH	PIPE DRAINS, 4" FOOT	CONCRETE HEADWALLS FOR PIPE DRAINS EACH	CONCRETE THRUST BLOCKS EACH
RT 232+80 TO 234+55	30	175	2			
LT 233+16.91	25	30	2			
RT 234+87.5				20	1	1
LT 234+87.5				20	1	1
RT 235+32.5				20	1	1
LT 235+32.5				20	1	1
TOTALS	55	205	4	80	4	4

ROW MARKER SCHEDULE

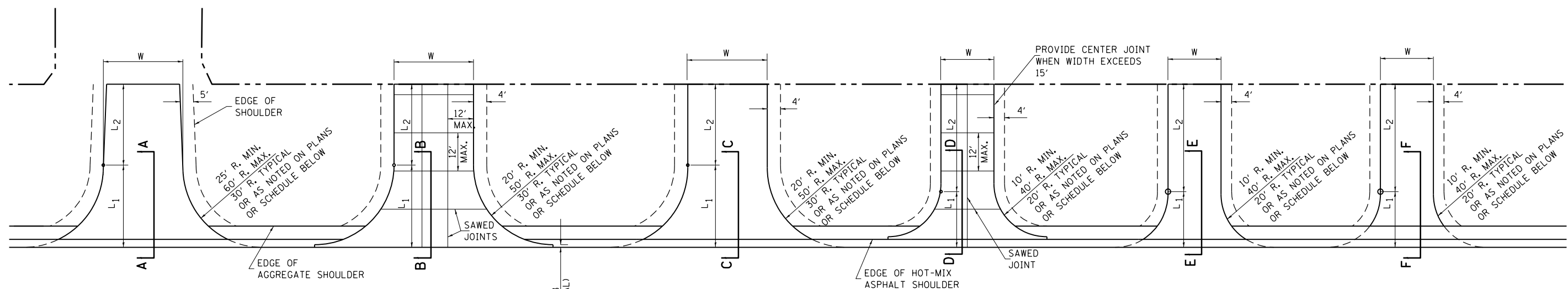
STATION	SIDE	O/S (FEET)	FURNISHING AND ERECTING RIGHT OF WAY MARKERS (EACH)
227+49.75	LT	35.0	1
227+67.97	RT	36.2	1
230+00.00	LT	50.0	1
230+00.00	RT	50.0	1
234+50.00	LT	50.0	1
234+50.00	RT	50.0	1
238+00.00	LT	30.0	1
238+00.00	RT	30.0	1
TOTAL =			8

SURVEY MARKER SCHEDULE

LOCATION	PERMANENT SURVEY MARKERS, TYPE I EACH	PERMANENT SURVEY MARKERS, TYPE II EACH	SURVEY MARKER VAULT EACH	PROTECTING OR RESETTING SURVEY MARKERS EACH
230+00.00	1		1	1
240+00.00	1		1	1
TO BE DETERMINED		1		
TOTALS	2	1	2	2

BENCHMARKS

BM	STATION	OFFSET	ELEV	DESCRIPTION
509	235+00	17.5' RT.	460.389	CHISELED SQUARE ON THE SE WINGWALL OF BRIDGE ON IL 250 STR #051-0051
550	227+70	29' RT.	471.386	RR SPIKE IN S SIDE OF POWER POLE 29' N OF CENTERLINE OF IL 250 AND +/- 750' E OF STR #051-0051 18' W OF OIL FIELD ROAD
551	238+00	45' LT.	466.352	CHISELED "X" ON N BOLT OF FIRE HYDRANT 45' S OF CENTERLINE OF IL 250 AND 300' W OF STR #051-0051
552	242+90	29' RT.	479.299	RR SPIKE IN S SIDE OF POWER POLE 29' N OF CENTERLINE OF IL 250 AND +/- 800' W OF STR #051-0051



PUBLIC ROAD

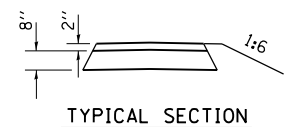
COMMERCIAL (P.C.C.)

COMMERCIAL (HOT-MIX ASPHALT)

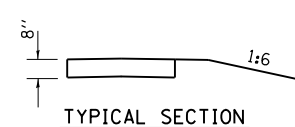
PRIVATE ENTRANCE (P.C.C.)

PRIVATE ENTRANCE (HOT-MIX ASPHALT)

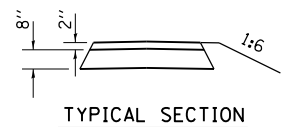
FIELD ENTRANCE (AGGREGATE)



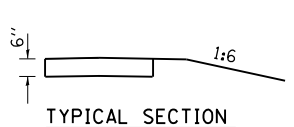
TYPICAL SECTION



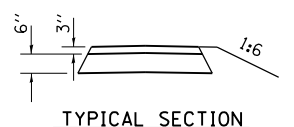
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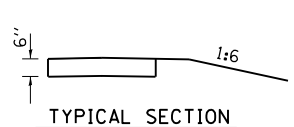
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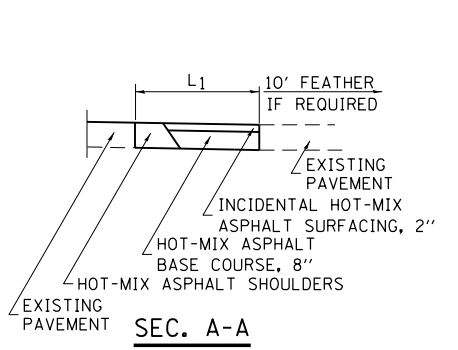
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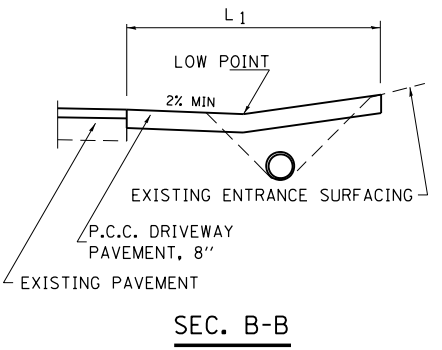
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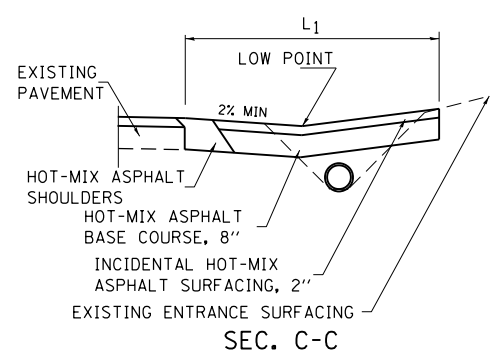
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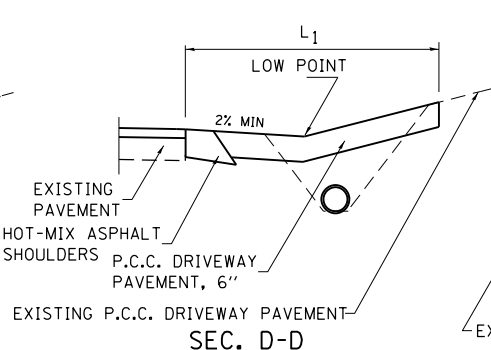
SEC. A-A



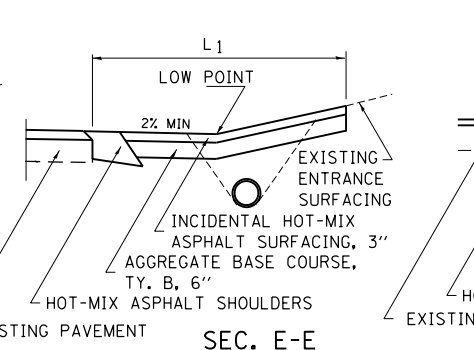
SEC. B-B



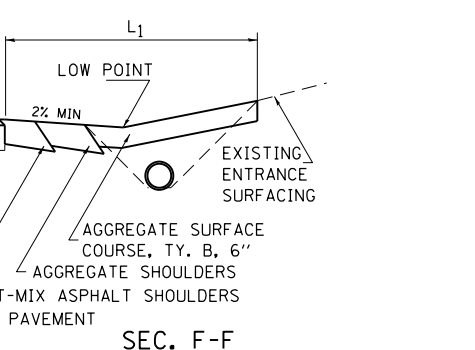
SEC. C-C



SEC. D-D



SEC. E-E



SEC. F-F

ENTRANCE SCHEDULE

TYPE	SIDE/ STATION	WIDTH	LENGTH		RADII	AGGREGATE BASE COURSE, TY. B, 6"	HOT-MIX ASPHALT BASE COURSE, 8"	AGGREGATE SURFACE COURSE, TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING	P.C.C. DRIVEWAY PAVEMENT		PCC PAVEMENT 8"
			L ₁	L ₂						6"	8"	
CE	RT 233+04	35	20	27	10			51.4				
FE	LT 233+17	18	20	37	20			28.6				
FE	RT 236+66	18	14	9	20/10			18.9				
FE	LT 236+85	20	20	4	40/10			6.0				
MBT	LT 237+78							15.2				
	TOTALS							120.0				

ENTRANCE SCHEDULE

TYPE	SIDE/ STATION	WIDTH	LENGTH		RADII	AGGREGATE BASE COURSE, TY. B, 6"	HOT-MIX ASPHALT BASE COURSE, 8"	AGGREGATE SURFACE COURSE, TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING	P.C.C. DRIVEWAY PAVEMENT		PCC PAVEMENT 8"
			L ₁	L ₂						6"	8"	

NOTES

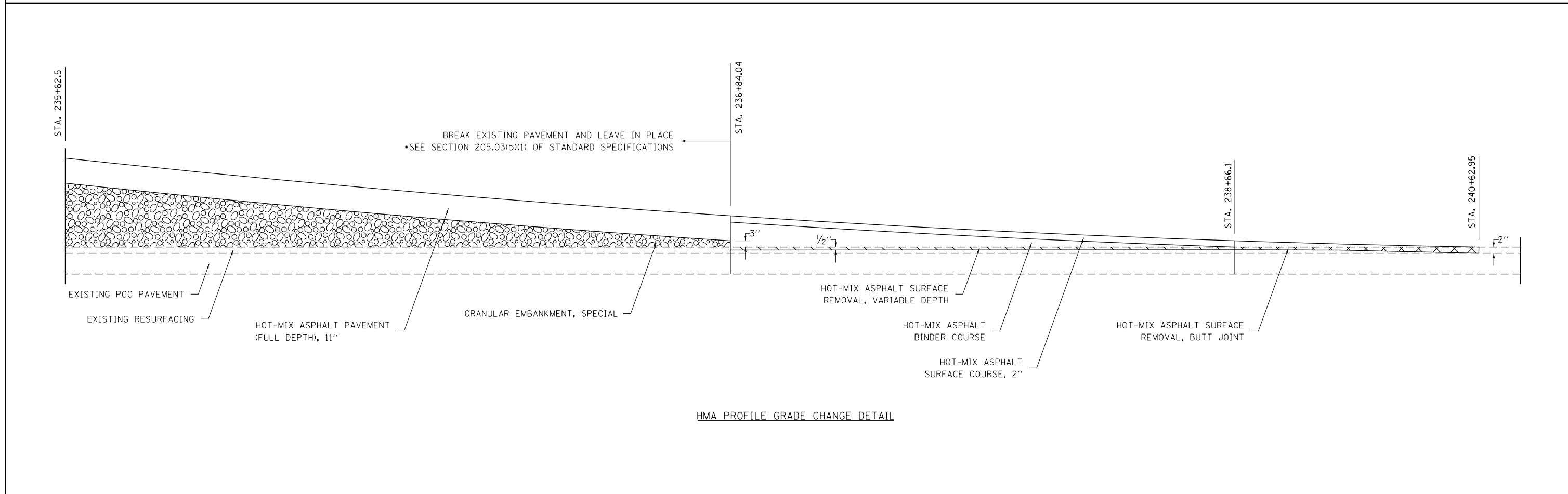
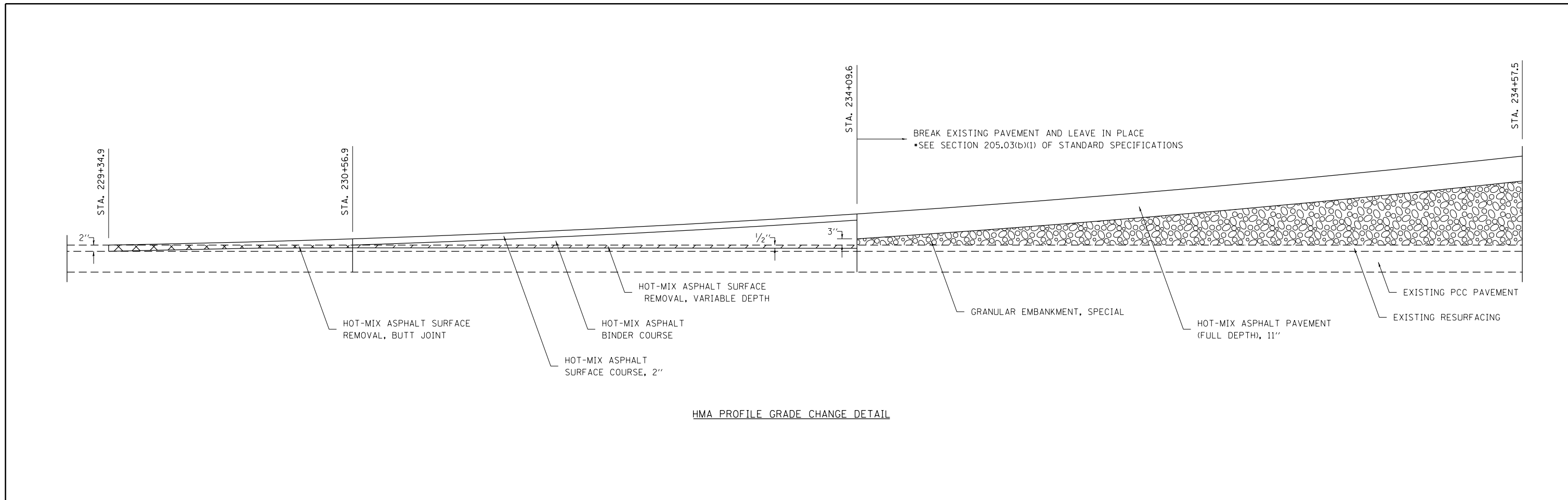
L₁ = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.
L₂ = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE
MATERIAL USED TO CONSTRUCT L₂ LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH COMMERCIAL ENTRANCES (HOT-MIX ASPHALT) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

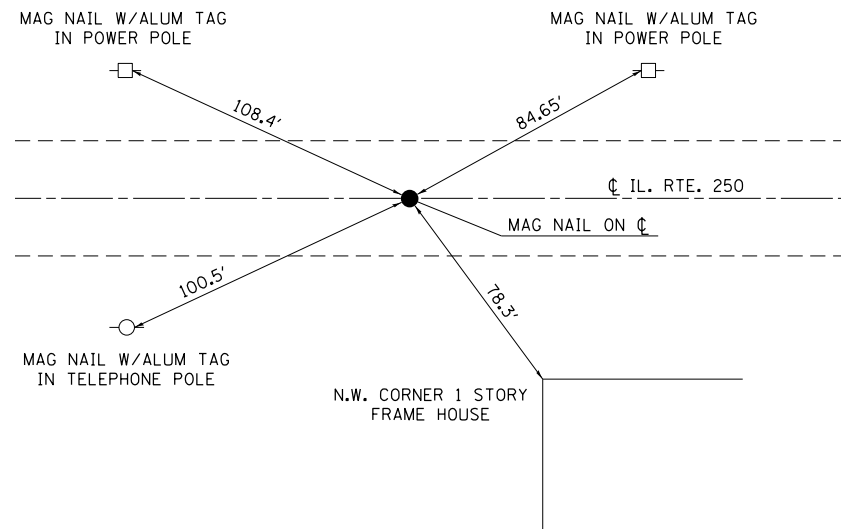
HOT-MIX ASPHALT SHOULDERS SHALL NOT BE CONSTRUCTED THROUGH PCC ENTRANCE OR PUBLIC ROAD APPROACH.

FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH
PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT
CE=COMMERCIAL ENTRANCE



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HMA PROFILE GRADE CHANGE			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 7\Projects\74106\Drawings\CADsheets\0774106-shd-details.dwg		CHECKED -	REVISED -		SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	1806	2B-1	LAWRENCE	59	15
		DATE -	REVISED -					CONTRACT NO. 74106			ILLINOIS FED. AID PROJECT		

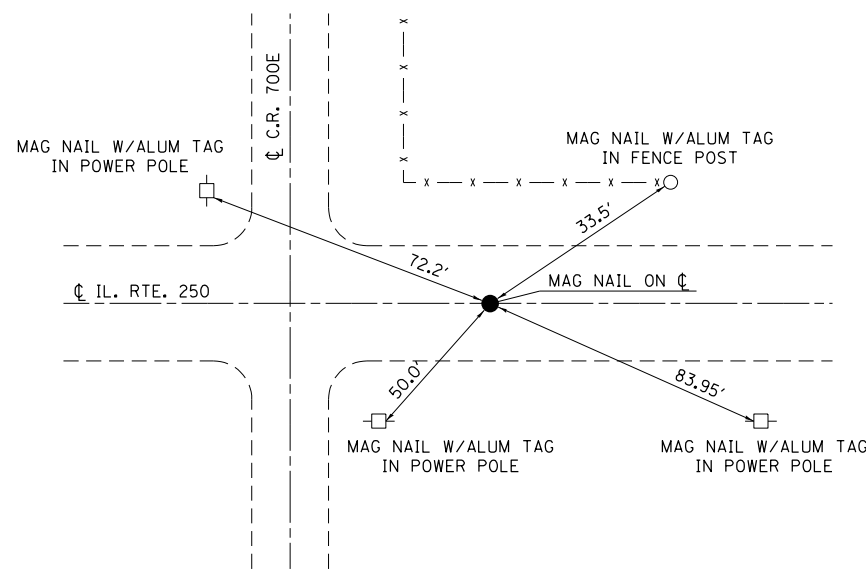
P.O.T. STA. 218+49.04



MAG NAILS SET EVERY 100' ON CL FROM STA. 225+00 TO STA. 246+00

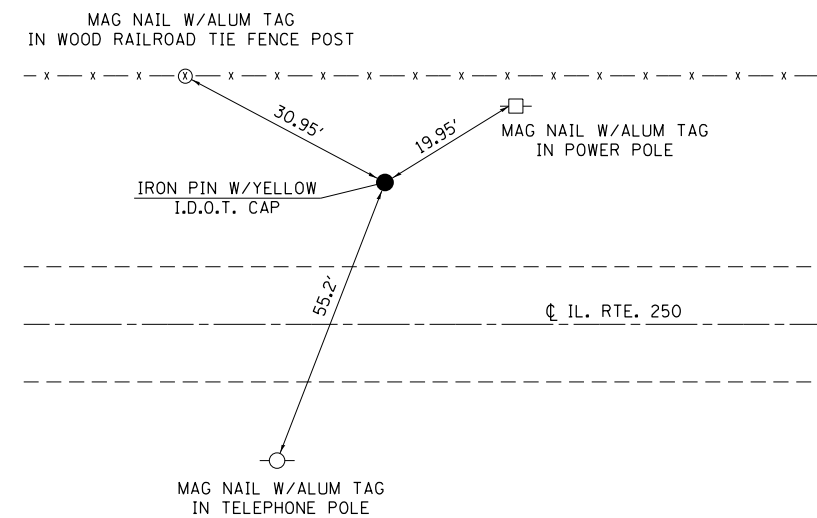
NOTE: NOT DRAWN TO SCALE

P.O.T. STA. 253+50.23



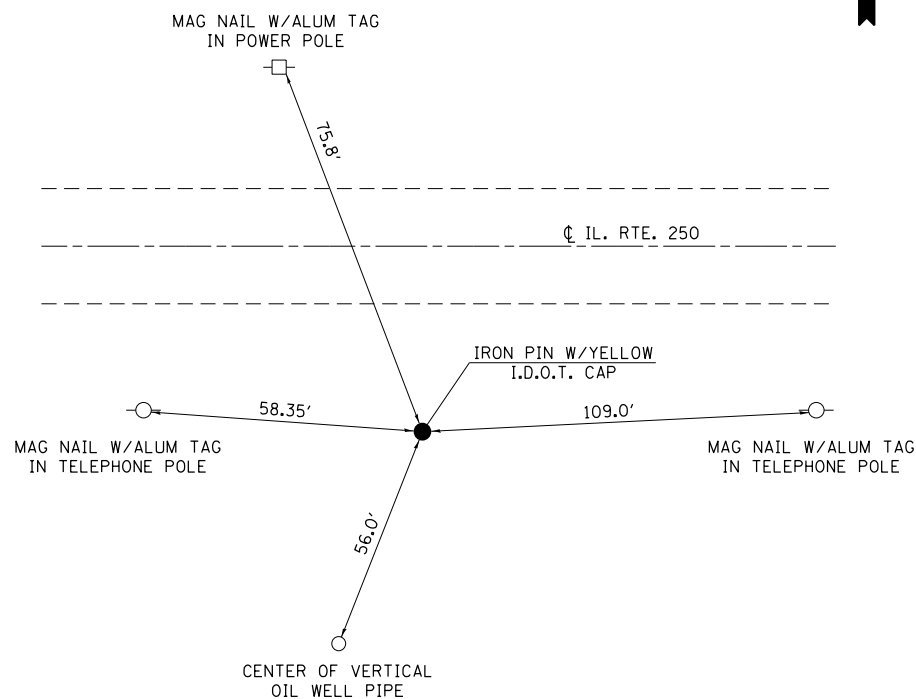
NOTE: NOT DRAWN TO SCALE

TRAV #450



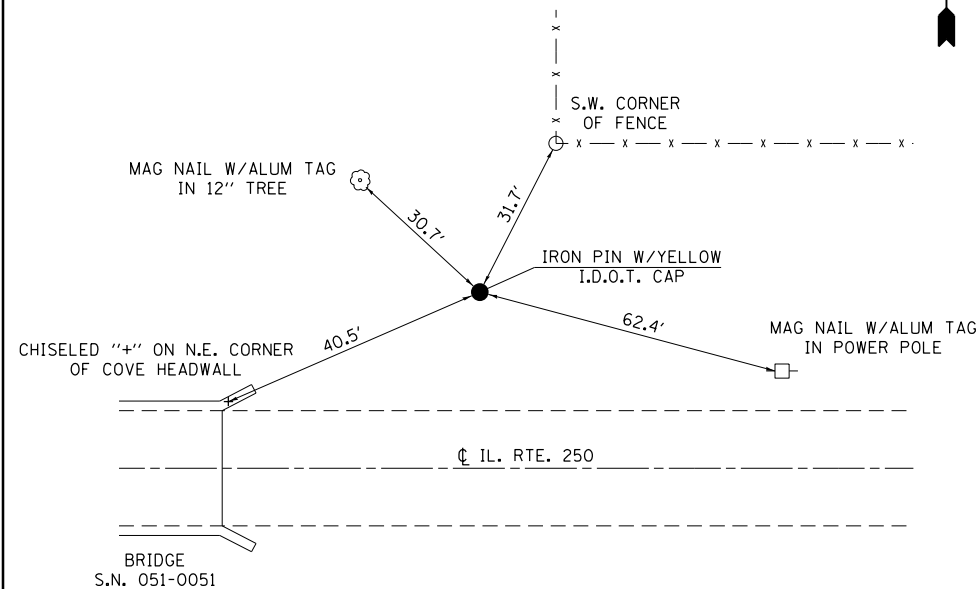
NOTE: NOT DRAWN TO SCALE

TRAV #451



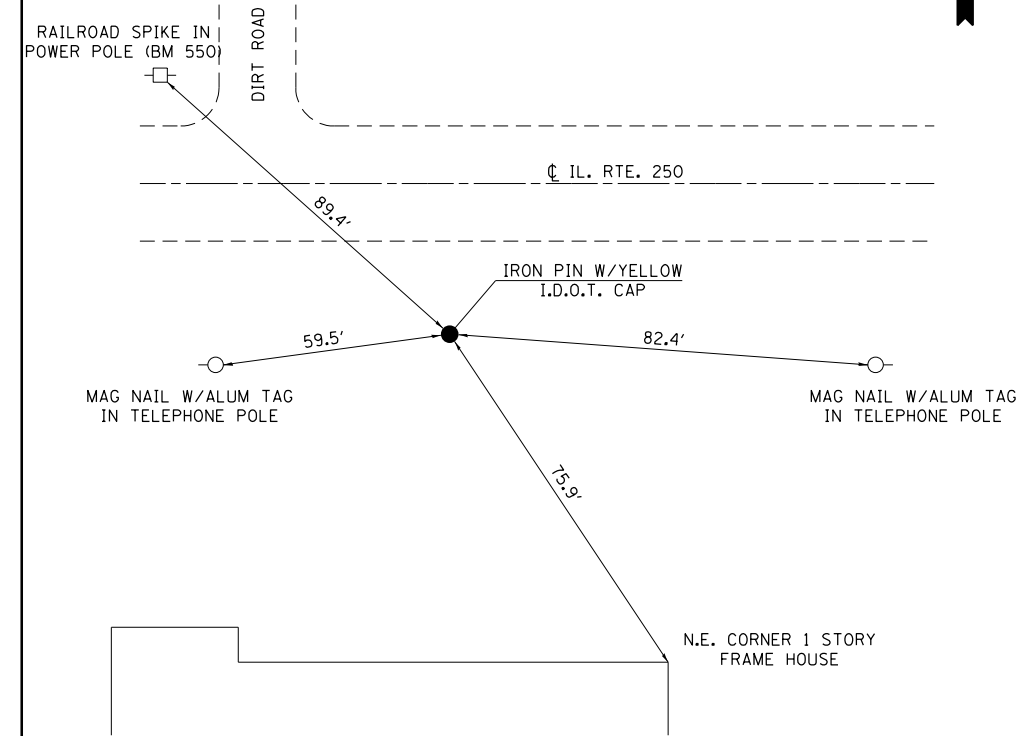
NOTE: NOT DRAWN TO SCALE

TRAV #452



NOTE: NOT DRAWN TO SCALE

TRAV #453



NOTE: NOT DRAWN TO SCALE

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/2/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

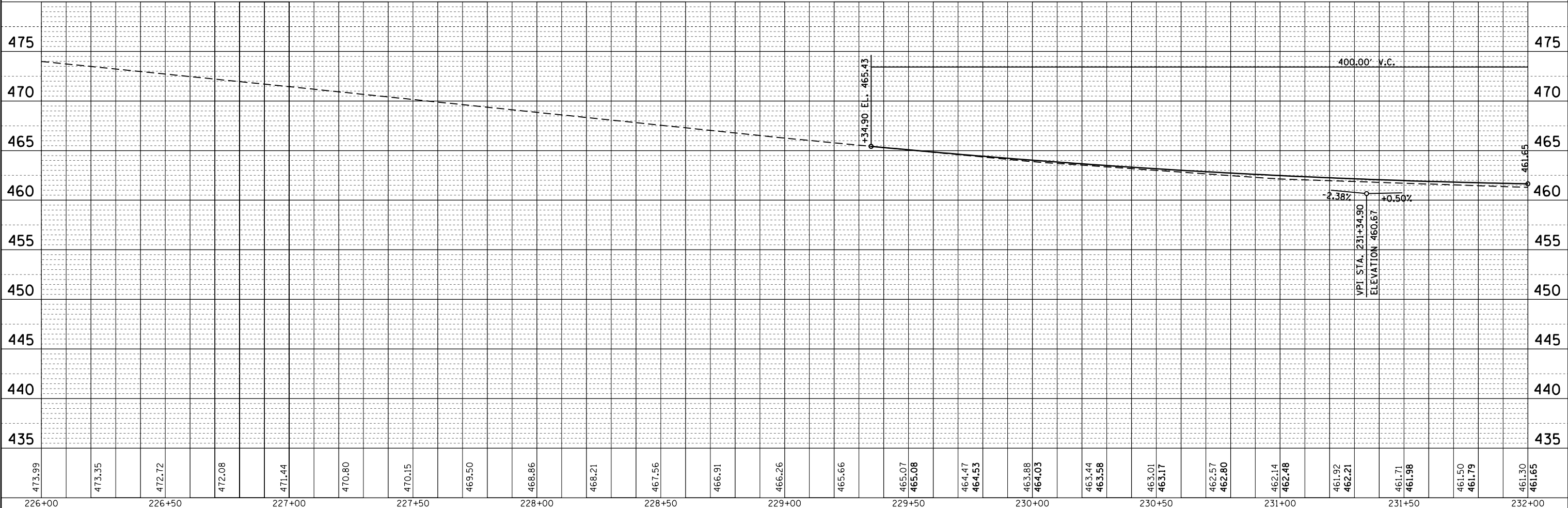
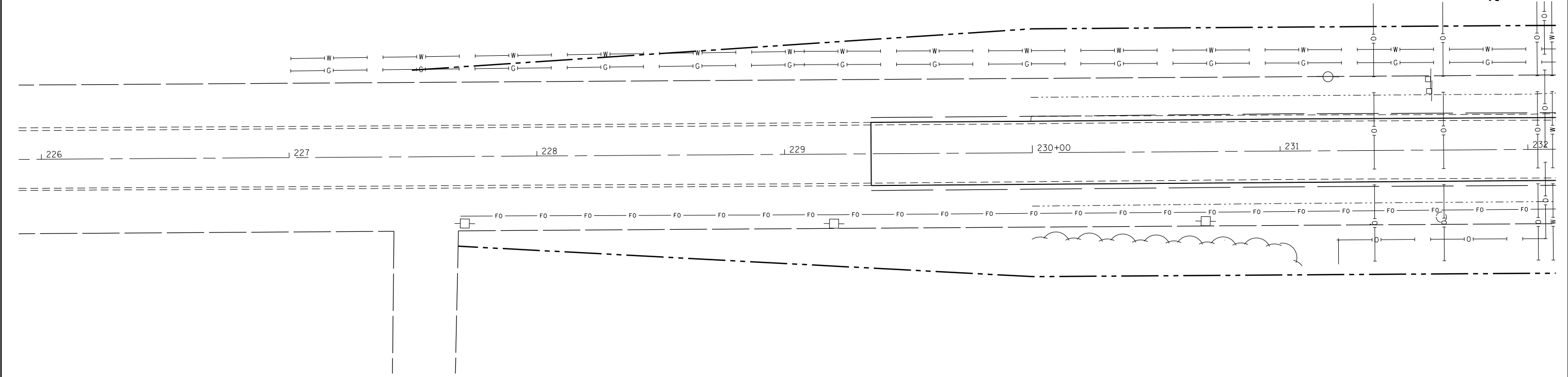
TIE POINTS

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	2B-1	LAWRENCE	59	16
CONTRACT NO. 74106				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



473.99	473.35	472.72	472.08	471.44	470.80	470.15	469.50	468.86	468.21	467.56	466.91	466.26	465.66	465.07	465.08	464.47	464.53	463.88	464.03	463.44	463.58	463.01	463.17	462.57	462.80	462.14	462.48	461.92	462.21	461.71	461.98	461.50	461.79	461.30	461.65			
226+00	226+50	227+00	227+50	228+00	228+50	229+00	229+50	230+00	230+50	231+00	231+50	232+00																										

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		CHECKED -	REVISED -
		DATE -	REVISED -

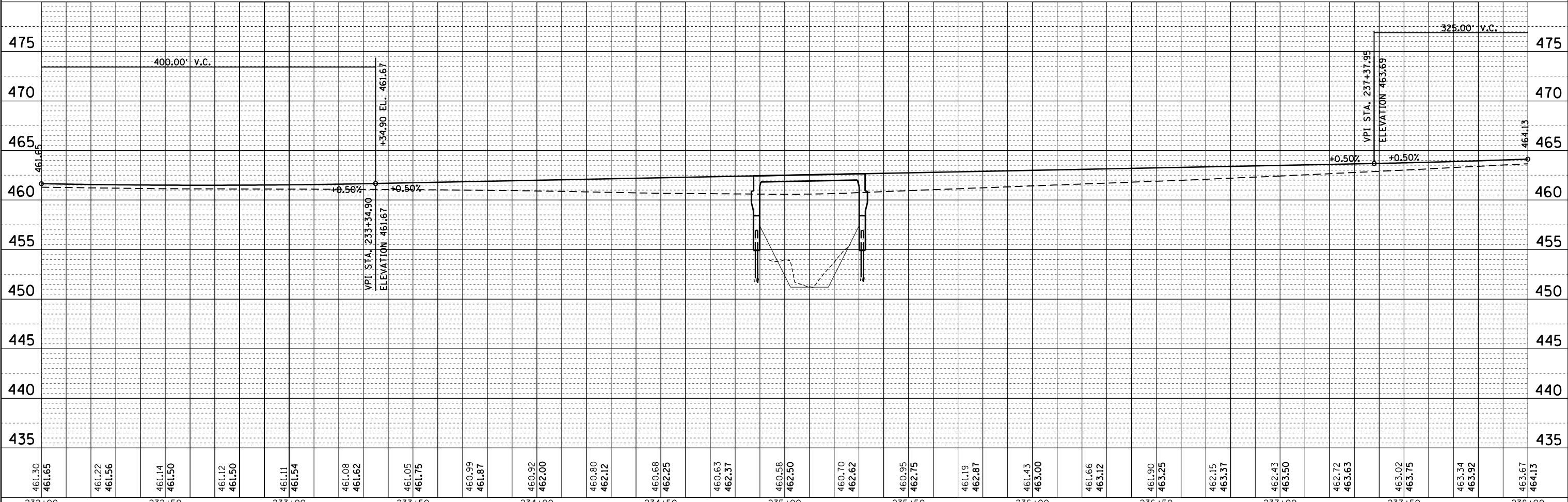
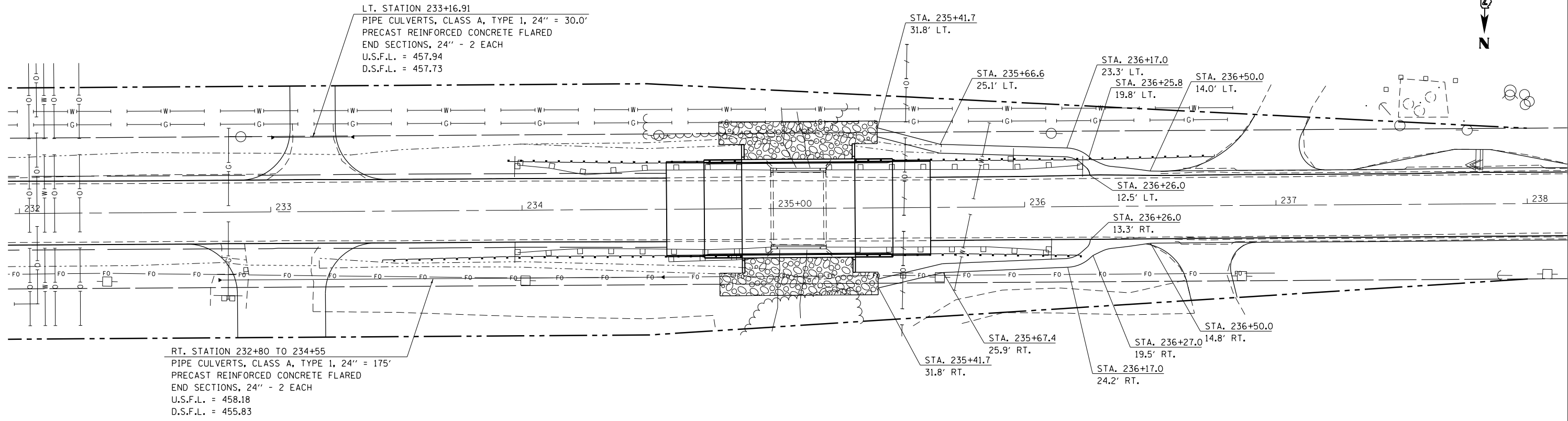
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN - PROFILE			
SCALE: 20	SHEET 1	OF 3	SHEETS
STA. 226+00	TO STA. 232+00		

F.A.S. RT. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 17
CONTRACT NO. 74106				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	ALIGNED		
	CHECKED		
	FILE NAME		

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



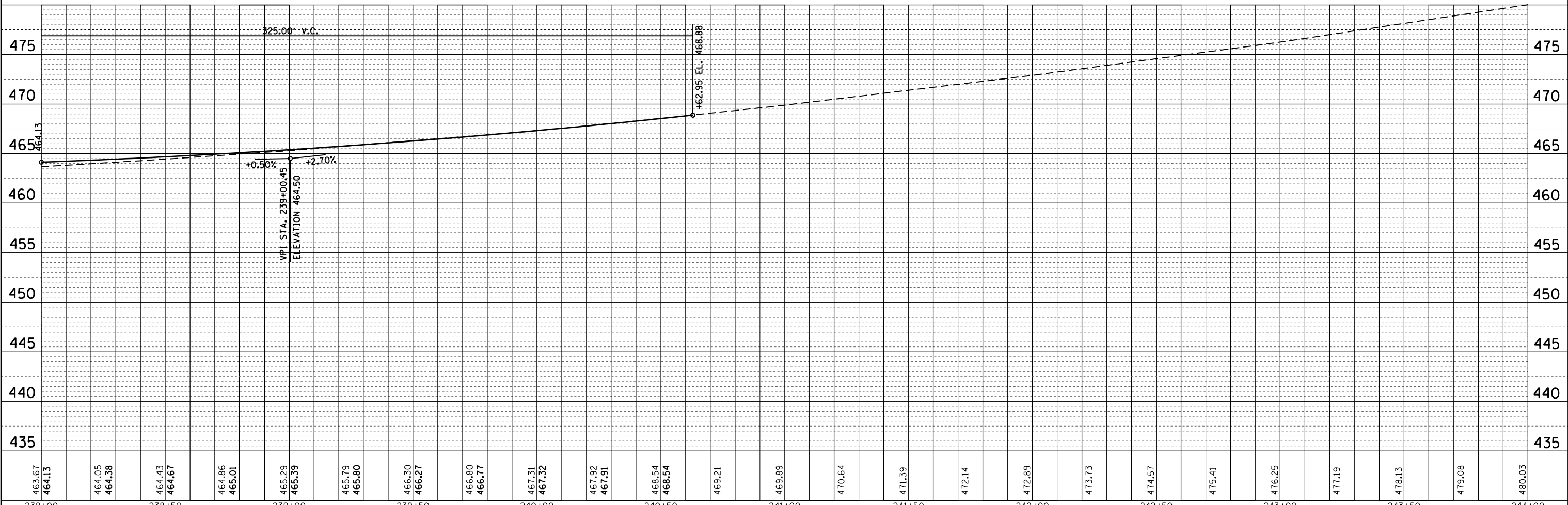
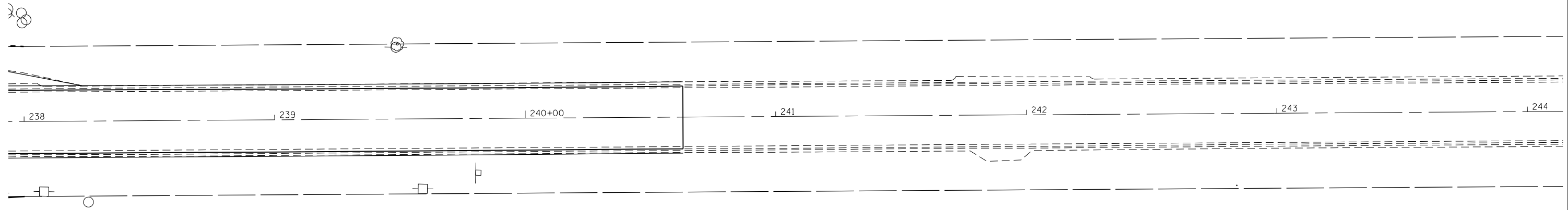
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p:\11084848\BID\INTEG\Illinois.gov\PIDOT\Documents\1007 Offices\District 7\Projects\74106\DRAWN\CAD\Sheets\0774106-sht-plan-profile.dwg		CHECKED -	REVISED -			1806	2B-1	LAWRENCE	59	18
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 74106				
	PLOT DATE = 8/2/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 20 SHEET 2 OF 3 SHEETS STA. 232+00 TO STA. 238+00

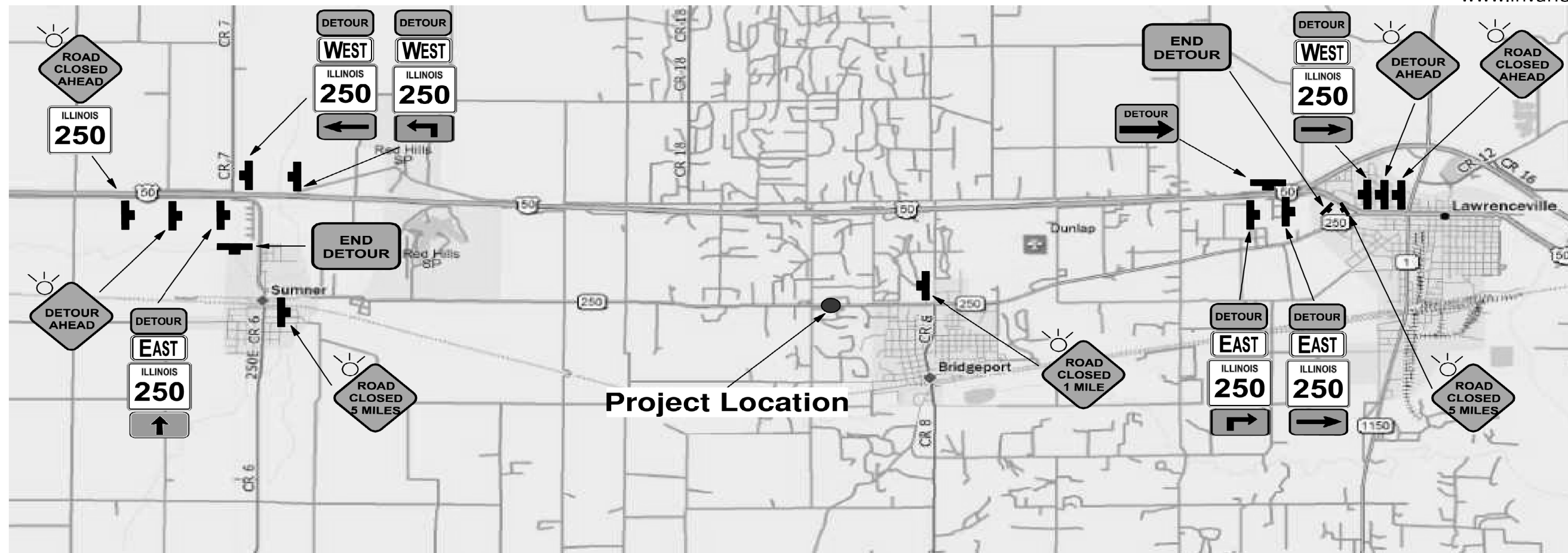


PLAN	SURVEYED	BY	DATE
NO.	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NO.	GRADES CHECKED		
	STRUCTURE		
	NOTATIONS		

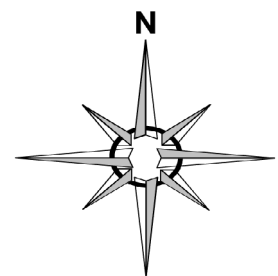


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p:\11084EBIDINTEG.allinois.gov\PIDOT\Documents\1007 Offices\District 7\Projects\74106\DRAWN\CADsheets\0774106-sht-planprofile.dwg		CHECKED -	REVISOR -		1806	2B-1	LAWRENCE	59	19				
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -		CONTRACT NO. 74106								
	PLOT DATE = 8/2/2016	DATE -	REVISOR -		SCALE: 20	SHEET 3	OF 3	SHEETS	STA. 238+00	TO STA. 244+00	ILLINOIS FED. AID PROJECT		



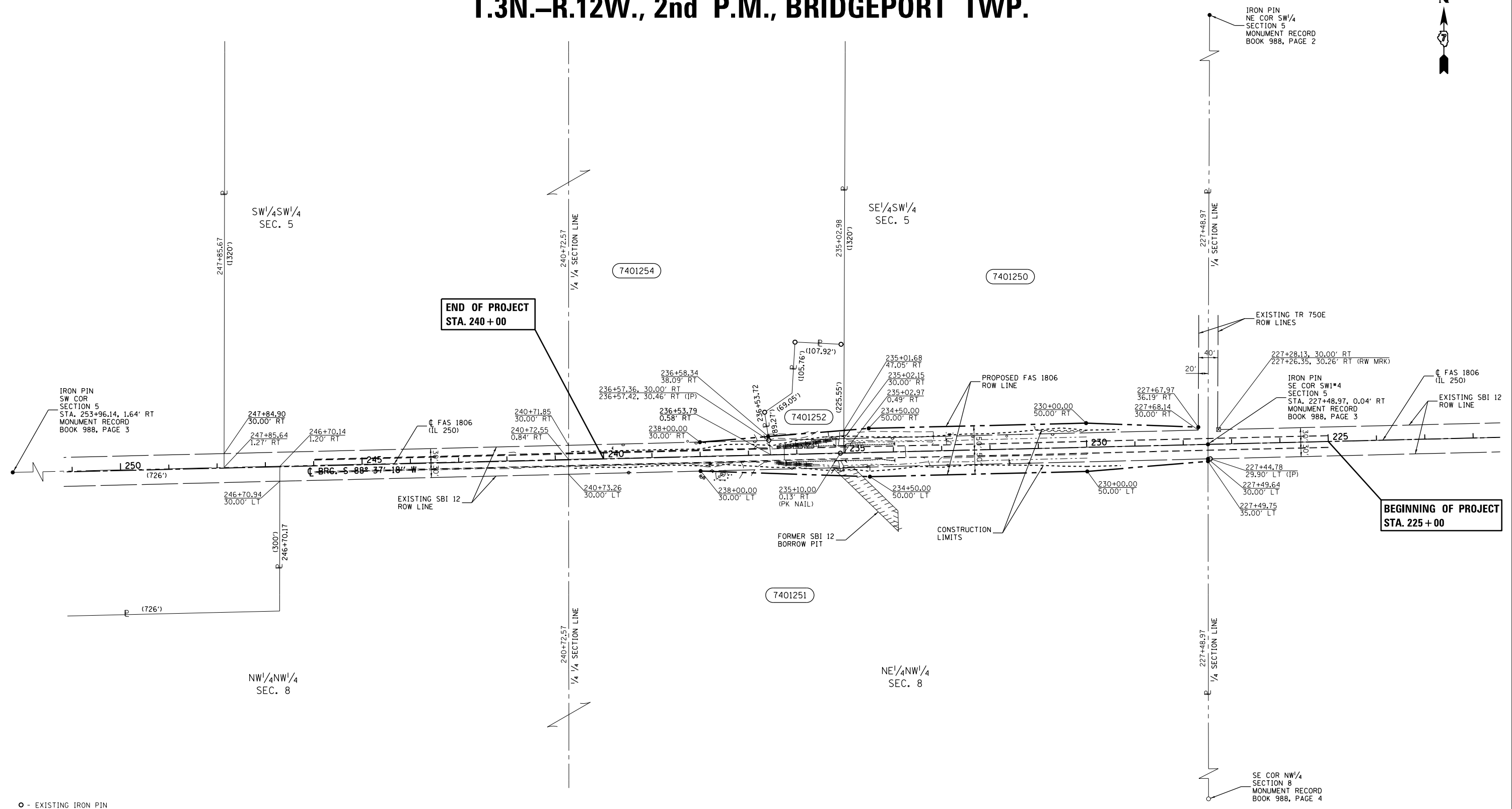
SIGN LEGEND

	W20-3-48		M6-3(O)-3018		M4-8-2412
	W20-3-48		M6-1R(O)-3018		M4-8a(O)-3024
	W20-3-48		M6-1L(O)-3018		M3-2-3015
	W20-2-48		M5-1R(O)-3018		M3-4-3015
	M1-1100-3024		M5-1L(O)-3018		Flashing Lights



CN 74106

T.3N.-R.12W., 2nd P.M., BRIDGEPORT TWP.



- - EXISTING IRON PIN
- - SET IRON PIN
- ▲ - EXISTING STONE
- ⊠ - EXISTING ROW MARKER
- (R) RECORDED DISTANCE

NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(97)
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

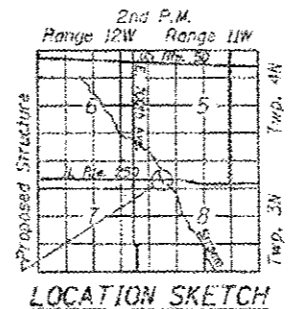
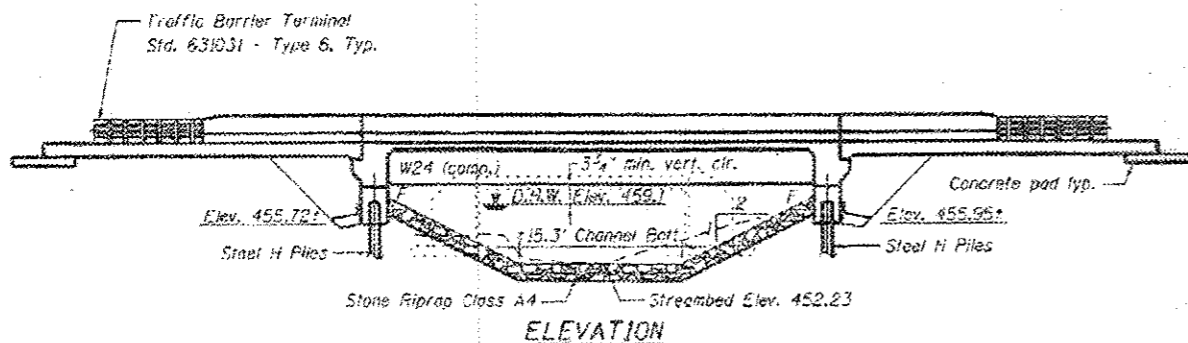
PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD	
7401250	CHARLES B. & LISA A. LEMERON, ET AL.	0.299 AC.	0.517 AC.		22.253 AC.								
7401251	REX ENERGY IV, LLC	0.359 AC.	1.350 AC.		69.488 AC.								
7401252	SHARLENE S. HOWARD	0.046 AC.	0.103 AC.		0.533 AC.								
7401254	LIFE ESTATE OF BEVERLY S. NEWELL	0.013 AC.	0.754 AC.		38.063 AC.								

FILE NAME D774106-shr-rowplan.dgn	USER NAME = steffenmk	DESIGNED - JMD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS			F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 21
	PLOT SCALE = 200.0000' / in.	CHECKED - JMD	REVISED -		PROJECT SCALE: 1" = 100'	JOB NO. R-97-001-14	STA. 223+00.00 TO STA. 250+00.00	CONTRACT NO. 74106				
	PLOT DATE = 8/2/2016	DATE - 11/26/14	REVISED -		SHEET NO. 1 OF 1 SHEET			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Bench Mark: B.M. 509-Chiseled square on southeast wing wall of S.N. 051-0051 Elev. 460.39

Existing Structure: S.N. 051-0051 was built in 1924 as a single span reinforced concrete deck slab structure on closed abutments with pile supported footings. It consists of a superstructure 20'-0" in length, "face to face of abutments", and provides a width of 32'-2" out to out. Road to be closed and traffic detoured during construction.

Sewage: None.

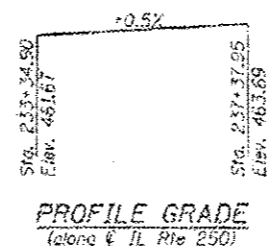
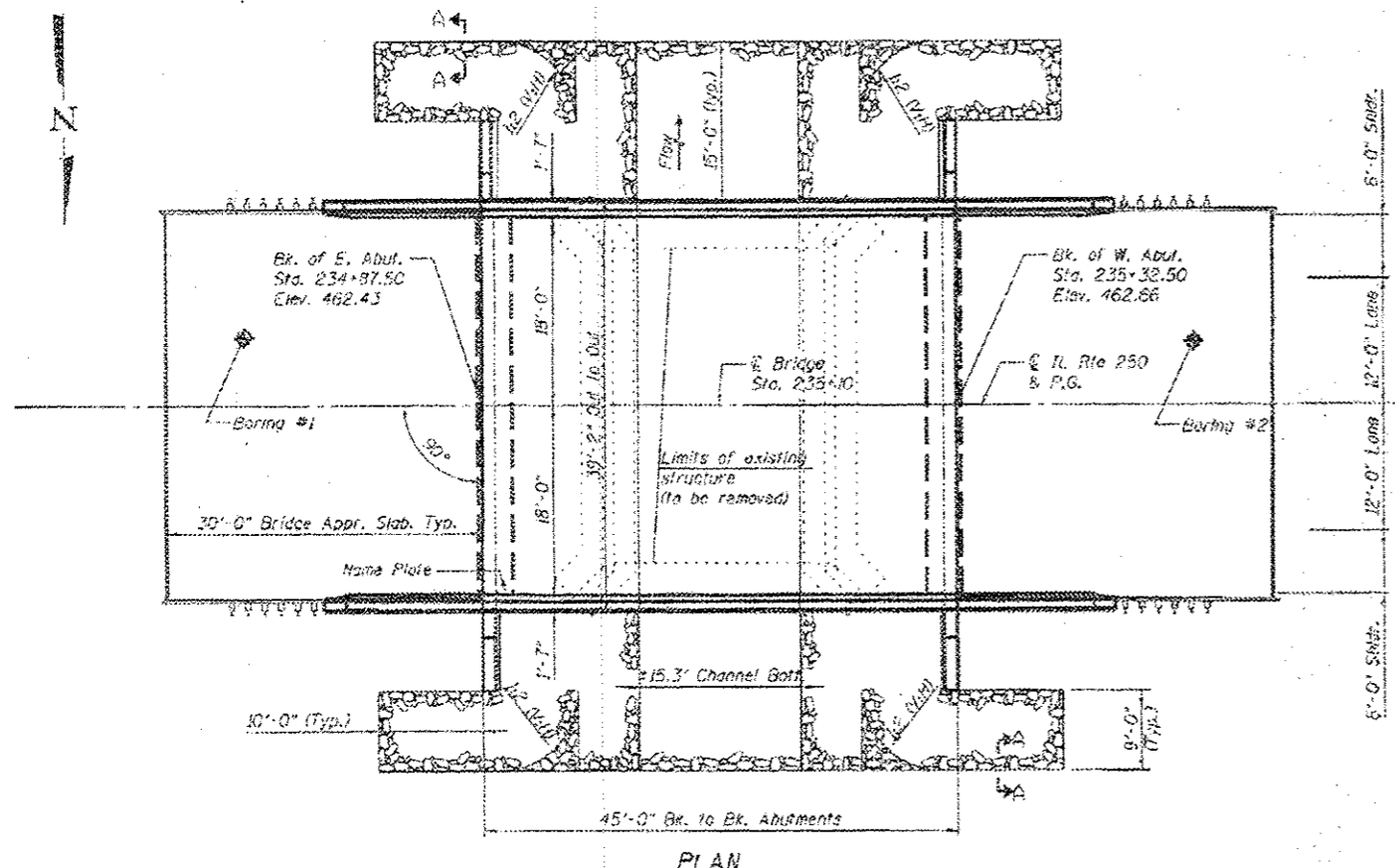


SEISMIC DATA
 Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.232g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.534g
 Soil Site Class = D

DESIGN SPECIFICATIONS
 2007 AASHTO LRFD Bridge Design Specifications
 with 2008 Interims

LOADING HL-93
 Allow 50# / sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
 f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)
 f_y = 50,000 psi (A270 Grade 50W)

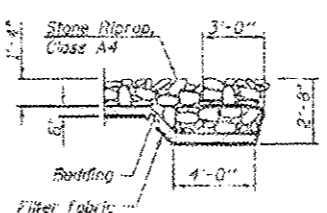


STATION 235+10
 BUILT 20... BY
 STATE OF ILLINOIS
 F.A.S. RT. 1806 SEC. 2B-1
 LOADING HL-93
 STRUCTURE NO. 051-0065

NAME PLATE
 See Std. 515001



MANHARLAL THAKKAR, S.E.
 ILLINOIS STRUCTURAL NO. 081-005583
 EXPIRES: NOVEMBER 30, 2010



APPROVED
 For Structural Adequacy Only
 Engineer of Bridges & Structures

GENERAL PLAN & ELEVATION
 ILLINOIS ROUTE 250 OVER A STREAM
 F.A.S. RT. 1806 SEC. 2B-1
 LAWRENCE COUNTY
 STATION 235+10
 STRUCTURE NO. 051-0065

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	E. Abut.	W. Abut.
	452.72	452.95

WATERWAY INFORMATION

Drainage Area = 1.0 sq. mi. Low Grade Elev. 461.58 @ Sta. 23+99.95

Flood Yr.	Fred. O C.F.S.	Opening Sq. Ft.		Head - Ft.		Highwater EL		
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
10	630	106	170	458.4	0.5	0	458.9 458.4	
Design	50	1072	117	192	459.1	1.8	0.6	460.9 459.7
Base	100	1279	117	206	459.3	1.8	1.0	461.1 460.3
Overtopping	35	1000	117	N/A	459.0	1.7	N/A	460.7 N/A
Max. Calc.	500	1801	117	211	459.8	1.9	1.2	461.7 461.6

DESIGNED: M. T.
 CHECKED: T. F.
 DRAWN: T. F./M. S.
 CHECKED: M. T.

FUHRMANN ENGINEERING INC.
 2852 SOUTH 11TH STREET
 SPRINGFIELD, IL 62703
 (217) 529-5577

SHEET NO. 1 19 SHEETS	F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 22
	SN 051-0065			CONTRACT NO. 74106	
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

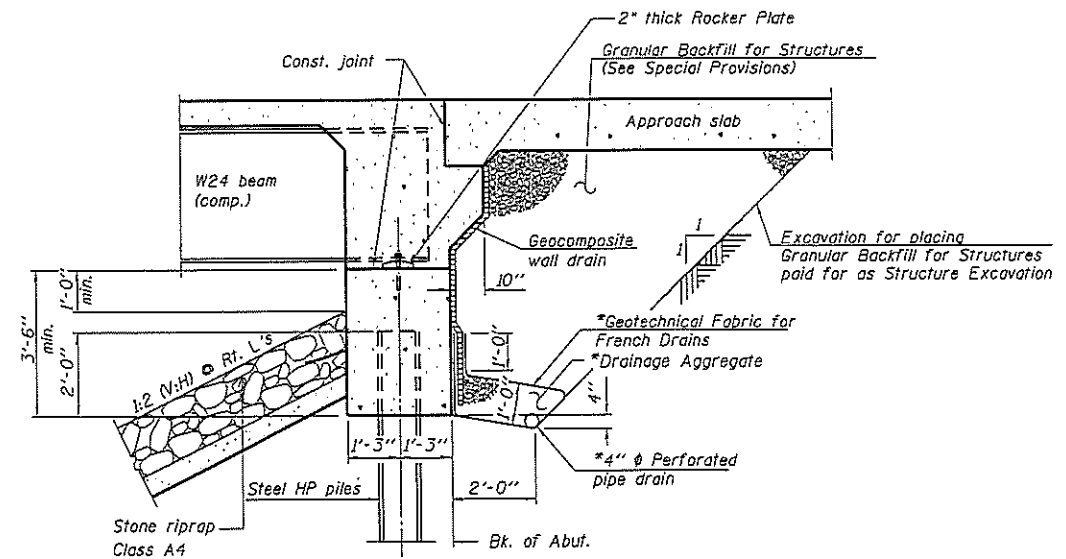
1. General Plan and Elevation
2. General Notes
3. Top of Slab Elevation Plan
4. Top of Slab Elevations
5. Top of East Approach Slab Elevations
6. Top of West Approach Slab Elevations
7. Superstructure Plan
8. Superstructure Details
9. Integral Abutment Diaphragm Details
10. Bridge Approach Slab
11. Bridge Approach Slab Details
12. Framing Plan & Fixed Bearing Details
13. East Abutment
14. West Abutment
15. HP Pile Details
16. Bar Splicer Assembly Details
17. Cantilever Forming Brackets
18. Borings
19. Borings

GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts $\frac{3}{4}$ in. ϕ , holes $\frac{13}{16}$ in. ϕ , unless otherwise noted.
2. Calculated weight of Structural Steel = 21,940 Lbs.
3. All structural steel shall be AASHTO M 270 Grade 50W.
4. No field welding is permitted except as specified in the contract documents.
5. The embankment configuration shall be the minimum that must be placed and compacted prior to construction of the abutments.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
9. Slipforming of the parapets is not allowed.
10. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.	--	84.1	84.1
Removal of Existing Structure	Each	1	--	1
Structure Excavation	Cu. Yd.	--	165	165
Protective Coat	Sq. Yd.	510	--	510
Stone Riprap Class A4	Sq. Yd.	--	381	381
Filter Fabric	Sq. Yd.	--	381	381
Bridge Deck Grooving	Sq. Yd.	400	--	400
Furnishing & Erecting Structural Steel	L. Sum	1	--	1
Furnishing Steel Piles HP 12x53	Foot	--	457	457
Driving Piles	Foot	--	457	457
Test Pile Steel HP 12x53	Each	--	2	2
Reinforcement Bars, Epoxy Coated	Pounds	45,825	5,470	51,295
Name Plates	Each	--	1	1
Stud Shear Connectors	Each	738	--	738
Bar Splicers	Each	78	--	78
Concrete Structures	Cu. Yd.	--	54.7	54.7
Concrete Superstructure	Cu. Yd.	116.7	--	116.7
Concrete Encasement	Cu. Yd.	--	4.2	4.2
Pipe Underdrains for Structures 4"	Foot	--	139	139
Geocomposite Wall Drain	Sq. Yd.	--	48	48
Anchor Bolts, 1"	Each	--	24	24
Concrete Superstructure (Approach Slab)	Cu. Yd.	116.7	--	116.7



SECTION THRU INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures.

Note:
All drainage system components shall outlet at the toe of slope. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

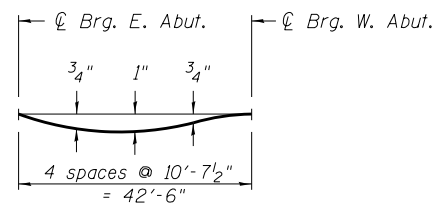
DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F.
CHECKED	M. T.

FUHRMANN
ENGINEERING INC.
2852 SOUTH 11TH STREET
SPRINGFIELD, IL. 62703
(217) 529-5577

SHEET NO. 2 19 SHEETS	F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 23
	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINDIS FED. AID PROJECT					

GENERAL NOTES
STRUCTURE NO. 051-0065

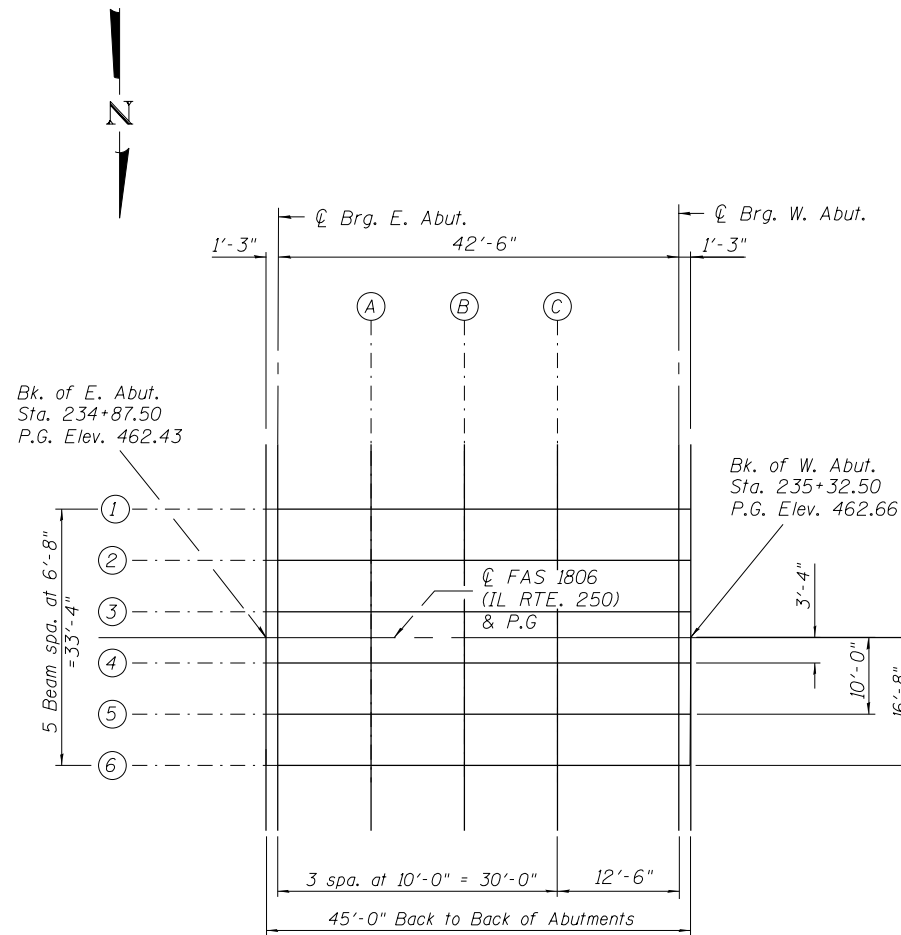
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



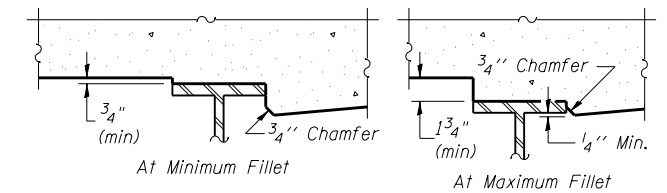
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 4 of 19.



PLAN



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 sheet 4 of 19, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

**TOP OF SLAB ELEVATION PLAN
STRUCTURE NO. 051-0065**

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F./M. S.
CHECKED	M. T.

FUHRMANN
ENGINEERING INC.
2852 SOUTH 11TH STREET
SPRINGFIELD, IL. 62703
(217) 529-5577

SHEET NO. 3 19 SHEETS	F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 24
	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM #1 AND 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	234+87.50	16.67	462.15	462.15
☉ E. Abut.	234+88.75	16.67	462.15	462.15
A	234+98.75	16.67	462.20	462.25
B	235+08.75	16.67	462.25	462.33
C	235+18.75	16.67	462.30	462.36
☉ W. Abut.	235+31.25	16.67	462.37	462.37
Bk. W. Abut.	235+32.50	16.67	462.37	462.37

BEAM #2 AND 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	234+87.50	10.00	462.28	462.28
☉ E. Abut.	234+88.75	10.00	462.28	462.28
A	234+98.75	10.00	462.33	462.38
B	235+08.75	10.00	462.38	462.46
C	235+18.75	10.00	462.43	462.49
☉ W. Abut.	235+31.25	10.00	462.50	462.50
Bk. W. Abut.	235+32.50	10.00	462.50	462.50

BEAM #3 AND 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	234+87.50	3.33	462.38	462.38
☉ E. Abut.	234+88.75	3.33	462.39	462.39
A	234+98.75	3.33	462.44	462.49
B	235+08.75	3.33	462.49	462.57
C	235+18.75	3.33	462.54	462.60
☉ W. Abut.	235+31.25	3.33	462.60	462.60
Bk. W. Abut.	235+32.50	3.33	462.61	462.61

☉ ROADWAY AND P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. E. Abut.	234+87.50	0.00	462.43	462.43
☉ E. Abut.	234+88.75	0.00	462.44	462.44
A	234+98.75	0.00	462.49	462.54
B	235+08.75	0.00	462.54	462.62
C	235+18.75	0.00	462.59	462.65
☉ W. Abut.	235+31.25	0.00	462.65	462.65
Bk. W. Abut.	235+32.50	0.00	462.66	462.66

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 051-0065**

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F.
CHECKED	M. T.



2852 SOUTH 11TH STREET
SPRINGFIELD, IL. 62703
(217) 529-5577

SHEET NO. 4	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	25
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH EDGE OF SHOULDER

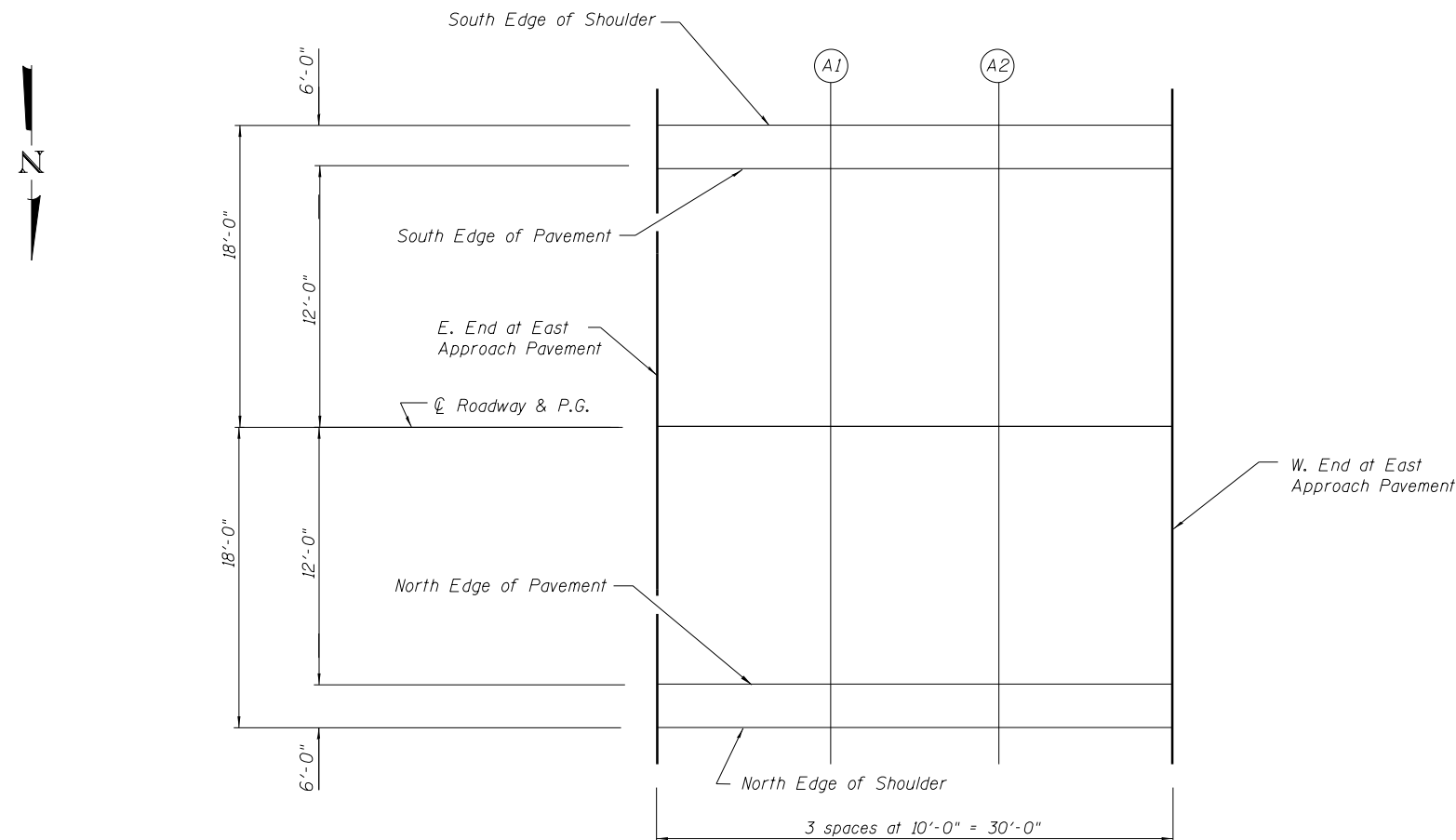
Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Pav't.	234+57.50	-18.00	461.97
A1	234+67.50	-18.00	462.02
A2	234+77.50	-18.00	462.07
W. End East Appr. Pav't.	234+87.50	-18.00	462.12

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Pav't.	234+57.50	-12.00	462.09
A1	234+67.50	-12.00	462.14
A2	234+77.50	-12.00	462.19
W. End East Appr. Pav't.	234+87.50	-12.00	462.24

☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Pav't.	234+57.50	0.00	462.28
A1	234+67.50	0.00	462.33
A2	234+77.50	0.00	462.38
W. End East Appr. Pav't.	234+87.50	0.00	462.43



PLAN
East Approach

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Pav't.	234+57.50	12.00	462.09
A1	234+67.50	12.00	462.14
A2	234+77.50	12.00	462.19
W. End East Appr. Pav't.	234+87.50	12.00	462.24

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End East Appr. Pav't.	234+57.50	18.00	461.97
A1	234+67.50	18.00	462.02
A2	234+77.50	18.00	462.07
W. End East Appr. Pav't.	234+87.50	18.00	462.12

**TOP OF EAST APPROACH SLAB
ELEVATIONS
STRUCTURE NO. 051-0065**

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F.
CHECKED	M. T.

 **FUHRMANN**
ENGINEERING INC.
2852 SOUTH 11TH STREET
SPRINGFIELD, IL. 62703
(217) 529-5577

SHEET NO. 5	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	26
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Pav't.	235+32.50	-18.00	462.35
A1	235+42.50	-18.00	462.40
A2	235+52.50	-18.00	462.45
W. End West Appr. Pav't.	235+62.50	-18.00	462.50

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Pav't.	235+32.50	-12.00	462.47
A1	235+42.50	-12.00	462.52
A2	235+52.50	-12.00	462.57
W. End West Appr. Pav't.	235+62.50	-12.00	462.62

☉ ROADWAY & PROFILE GRADE

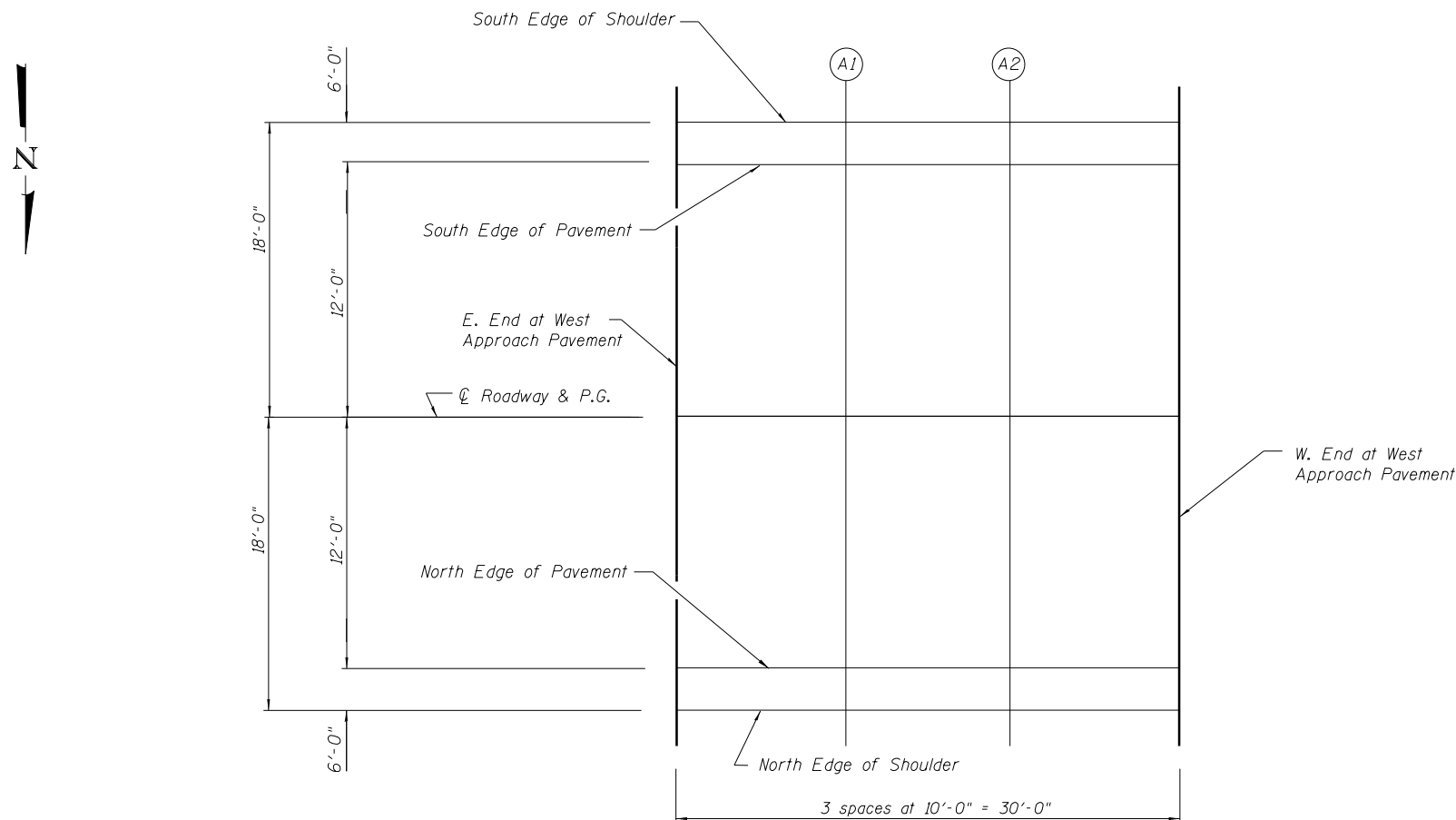
Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Pav't.	235+32.50	0.00	462.66
A1	235+42.50	0.00	462.71
A2	235+52.50	0.00	462.76
W. End West Appr. Pav't.	235+62.50	0.00	462.81

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Pav't.	235+32.50	12.00	462.47
A1	235+42.50	12.00	462.52
A2	235+52.50	12.00	462.57
W. End West Appr. Pav't.	235+62.50	12.00	462.62

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
E. End West Appr. Pav't.	235+32.50	18.00	462.35
A1	235+42.50	18.00	462.40
A2	235+52.50	18.00	462.45
W. End West Appr. Pav't.	235+62.50	18.00	462.50



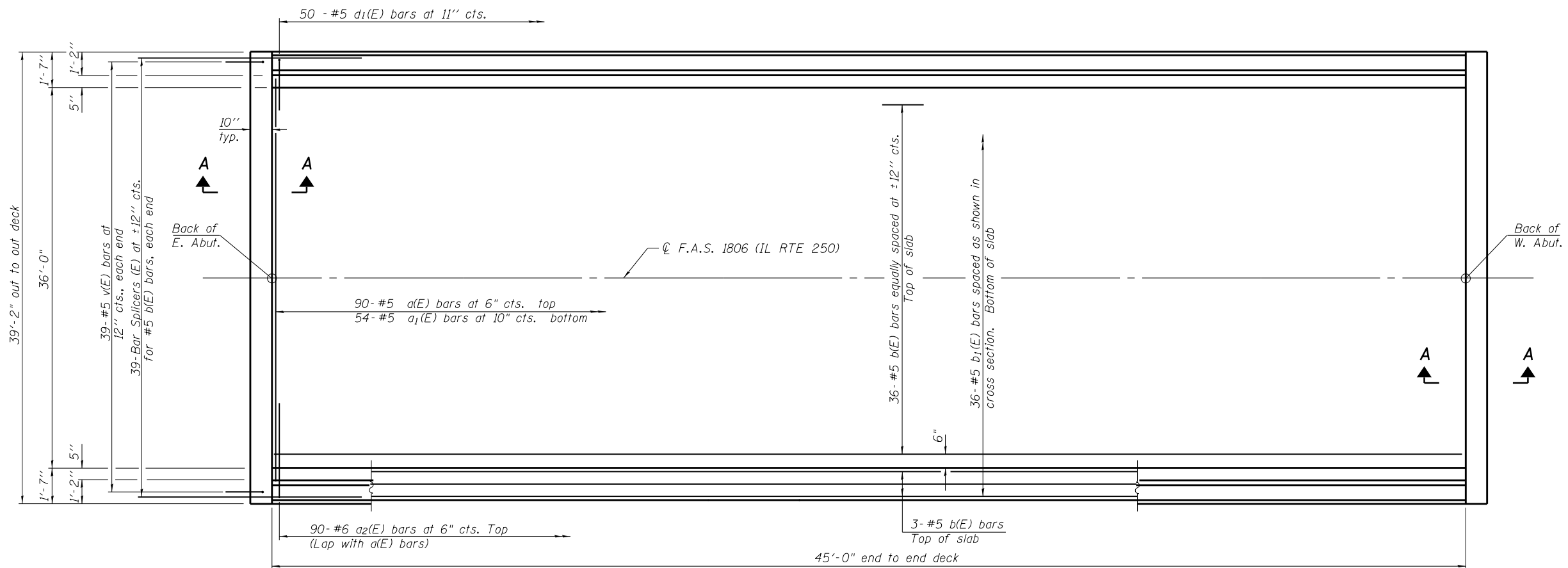
PLAN
West Approach

TOP OF WEST APPROACH SLAB
ELEVATIONS
STRUCTURE NO. 051-0065

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F.
CHECKED	M. T.

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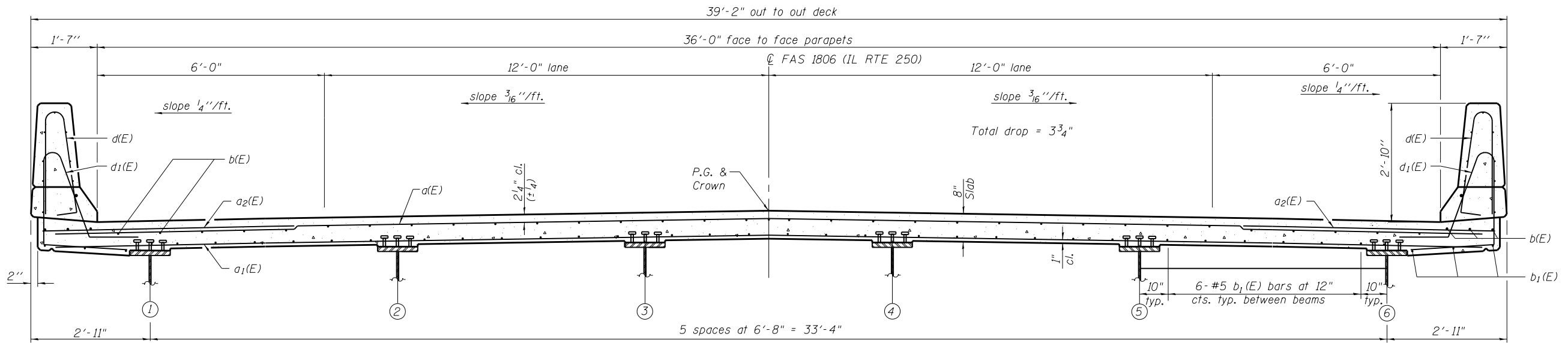
SHEET NO. 6	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	27
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



MINIMUM BAR LAP
 #5 bar = 2'-2"
 #6 bar = 2'-7"

Notes:
 See Sheet 8 of 19 for superstructure details and Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 See Sheet 8 of 19 for parapet reinforcement.
 See Sheet 9 of 19 for Section A-A.

PLAN



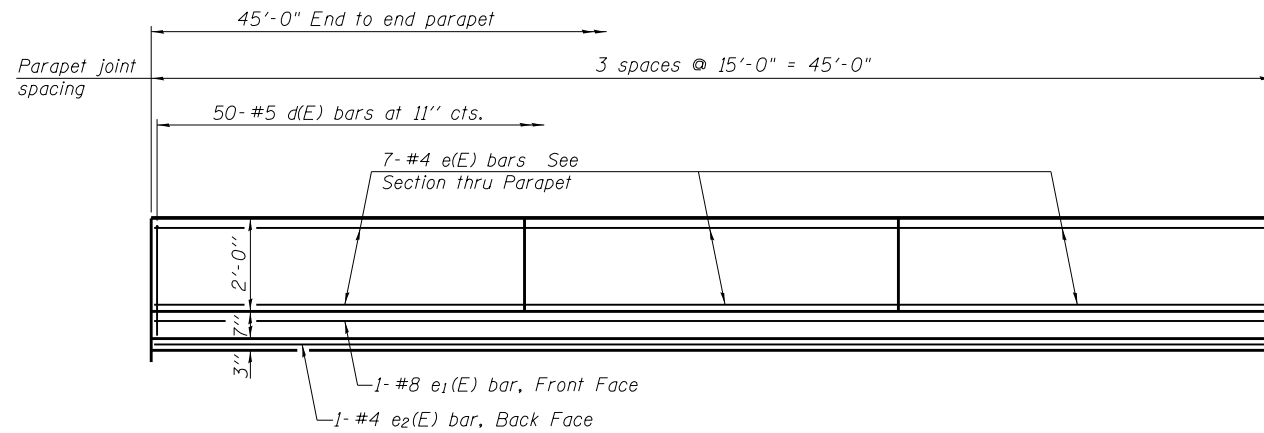
CROSS SECTION
 (Looking West)

SUPERSTRUCTURE PLAN
STRUCTURE NO. 051-0065

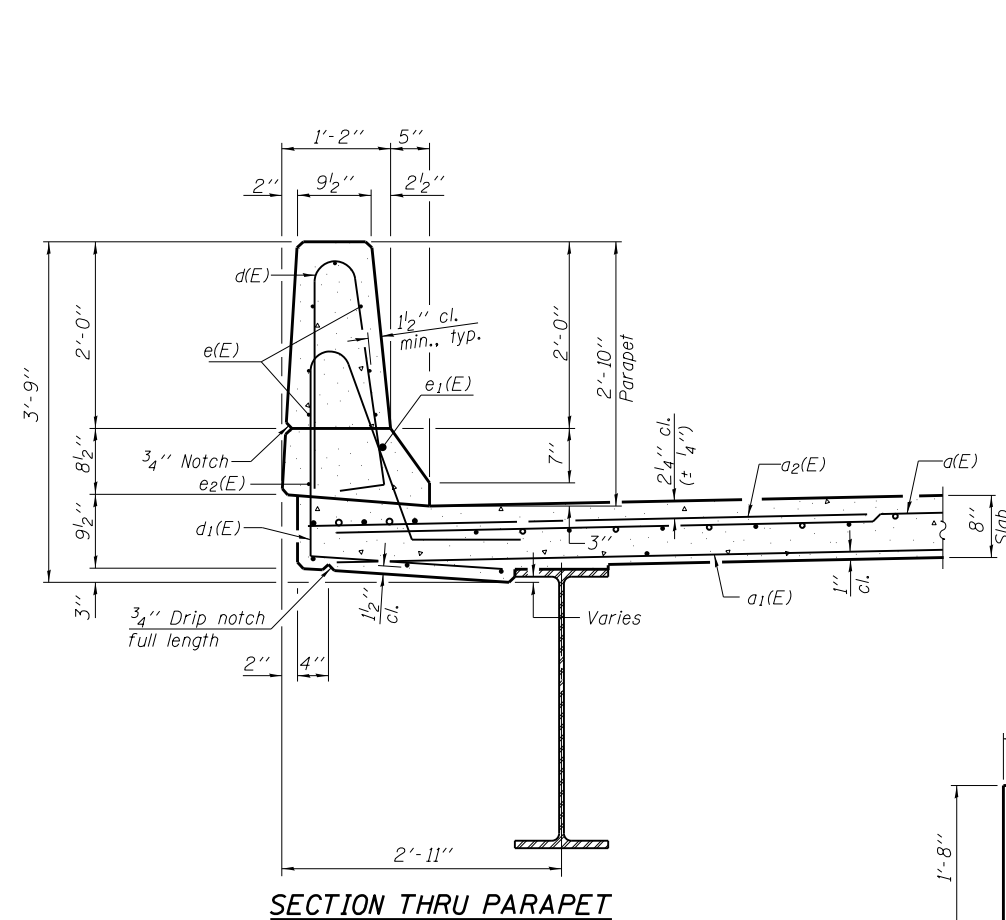
DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F./M. S.
CHECKED	M. T.

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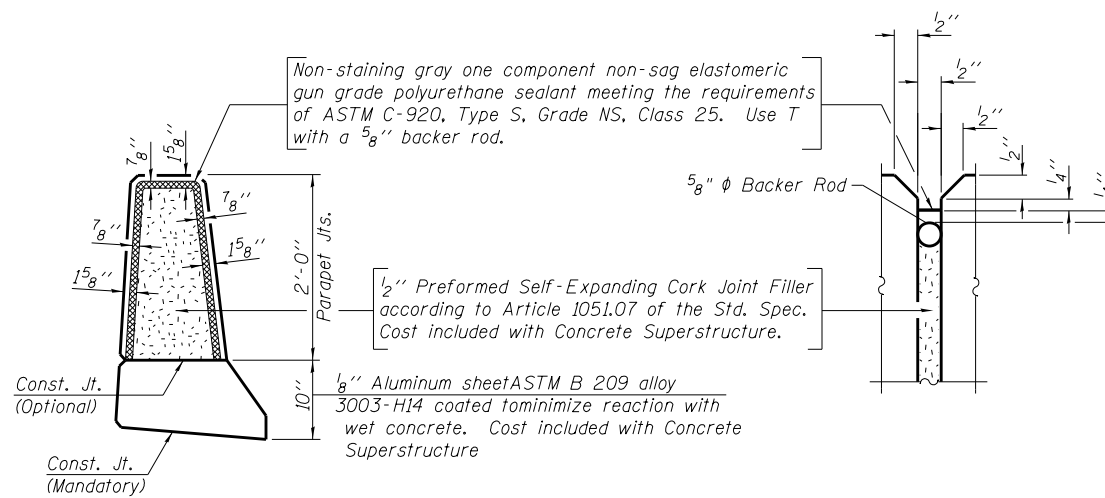
SHEET NO. 7	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	28
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



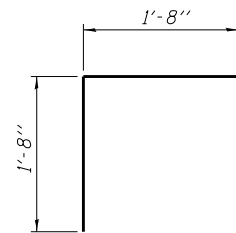
INSIDE ELEVATION OF PARAPET



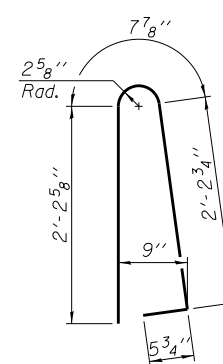
SECTION THRU PARAPET



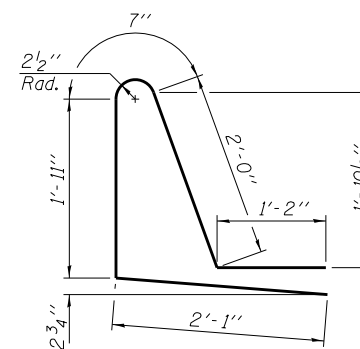
PARAPET JOINT DETAILS



BAR v(E)



BAR d(E)



BAR d1(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	90	#5	38'-4"	—
a1(E)	54	#5	37'-8"	—
a2(E)	180	#6	6'-0"	—
b(E)	42	#5	44'-8"	—
b1(E)	36	#5	44'-8"	—
d(E)	100	#5	5'-7"	⌋
d1(E)	100	#5	7'-9"	⌋
e(E)	42	#4	14'-8"	—
e1(E)	2	#8	44'-8"	—
e2(E)	2	#4	44'-8"	—
m(E)	4	#6	38'-0"	—
m1(E)	6	#6	38'-9"	—
m2(E)	24	#6	9'-5"	—
m3(E)	10	#6	6'-4"	—
m4(E)	4	#6	2'-5"	—
s(E)	82	#5	5'-5"	⌋
s1(E)	82	#4	8'-0"	⌋
v(E)	78	#5	3'-4"	⌋
Reinforcement Bars, Epoxy Coated		Pound	15,280	
Concrete Superstructure		Cu. Yds.	76.3	

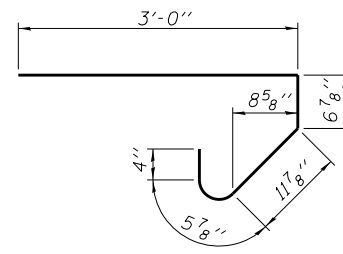
Bars indicated thus 1 x 4-#4 etc. indicates 1 line of bars with 4 lengths per line.

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 051-0065**

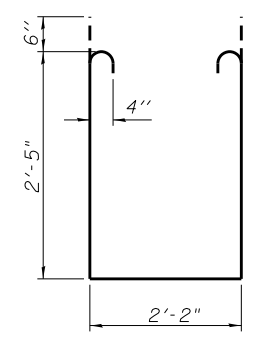
DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F.
CHECKED	M. T.

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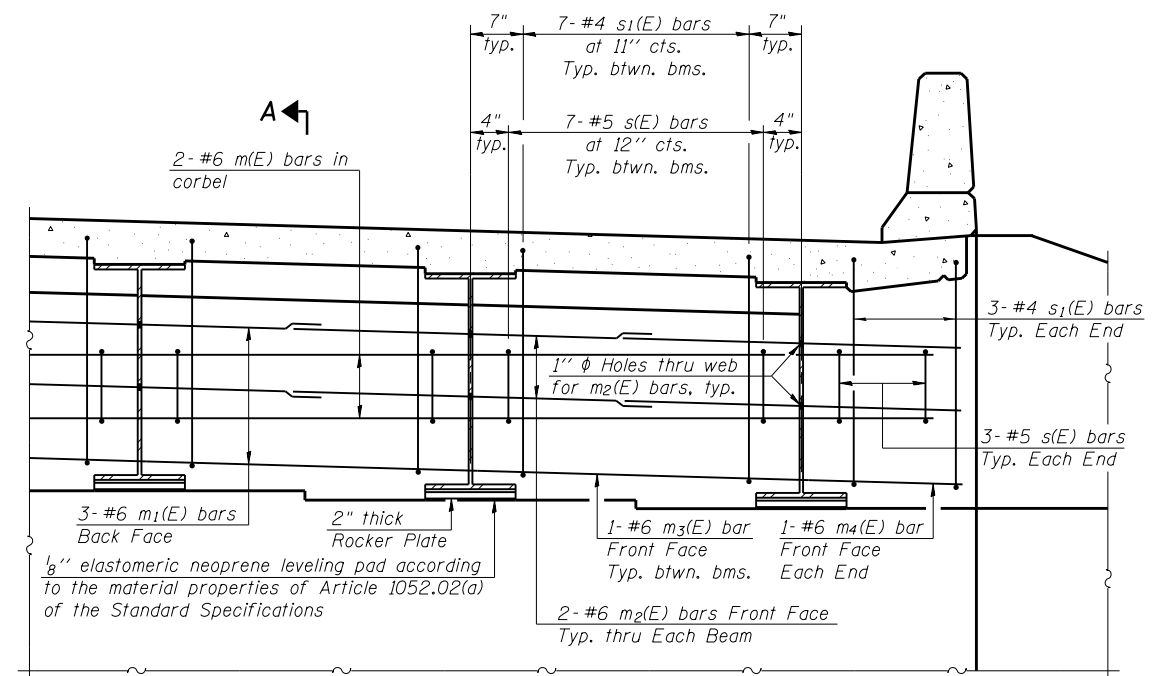
SHEET NO. 8 19 SHEETS	F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 29
	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



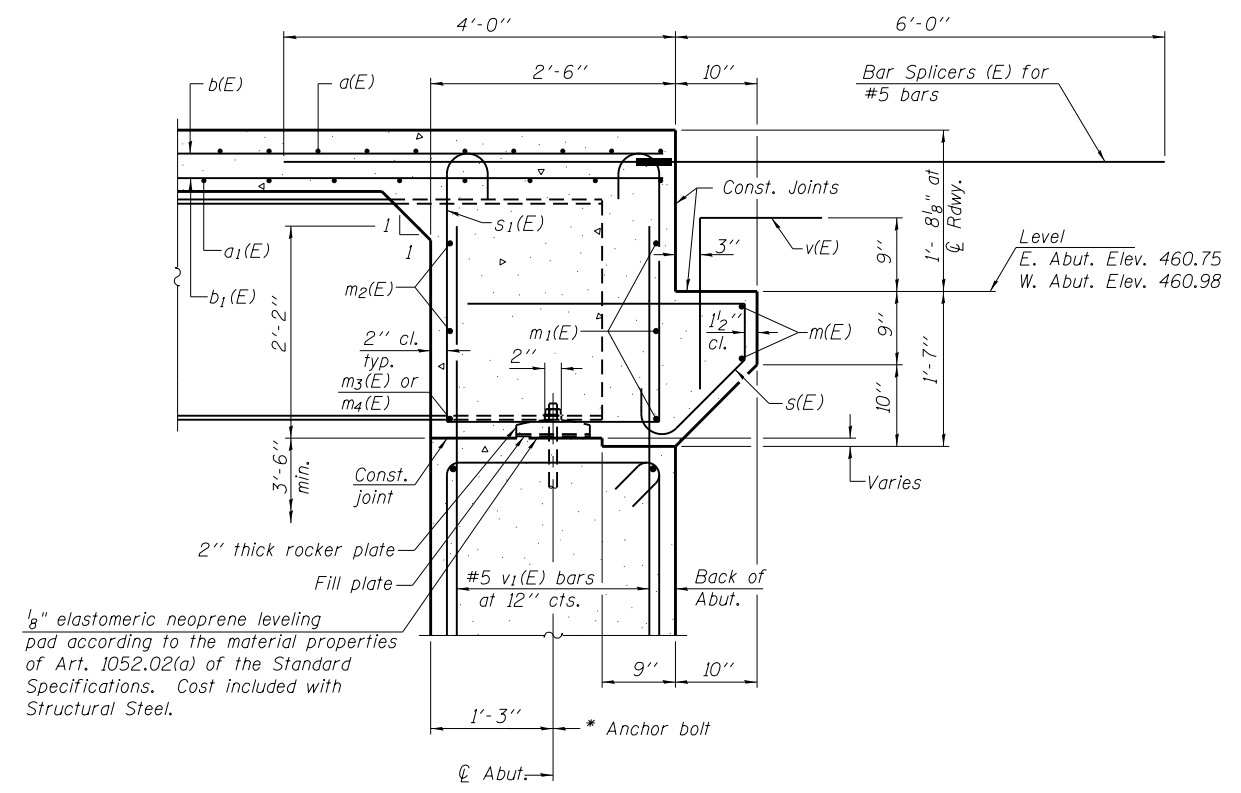
BAR s(E)



BAR s1(E)



DIAPHRAGM ELEVATION AT ABUTMENT



SECTION A-A

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 19.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 19.

MIN. BAR LAP
 #6 bar = 2'-9"

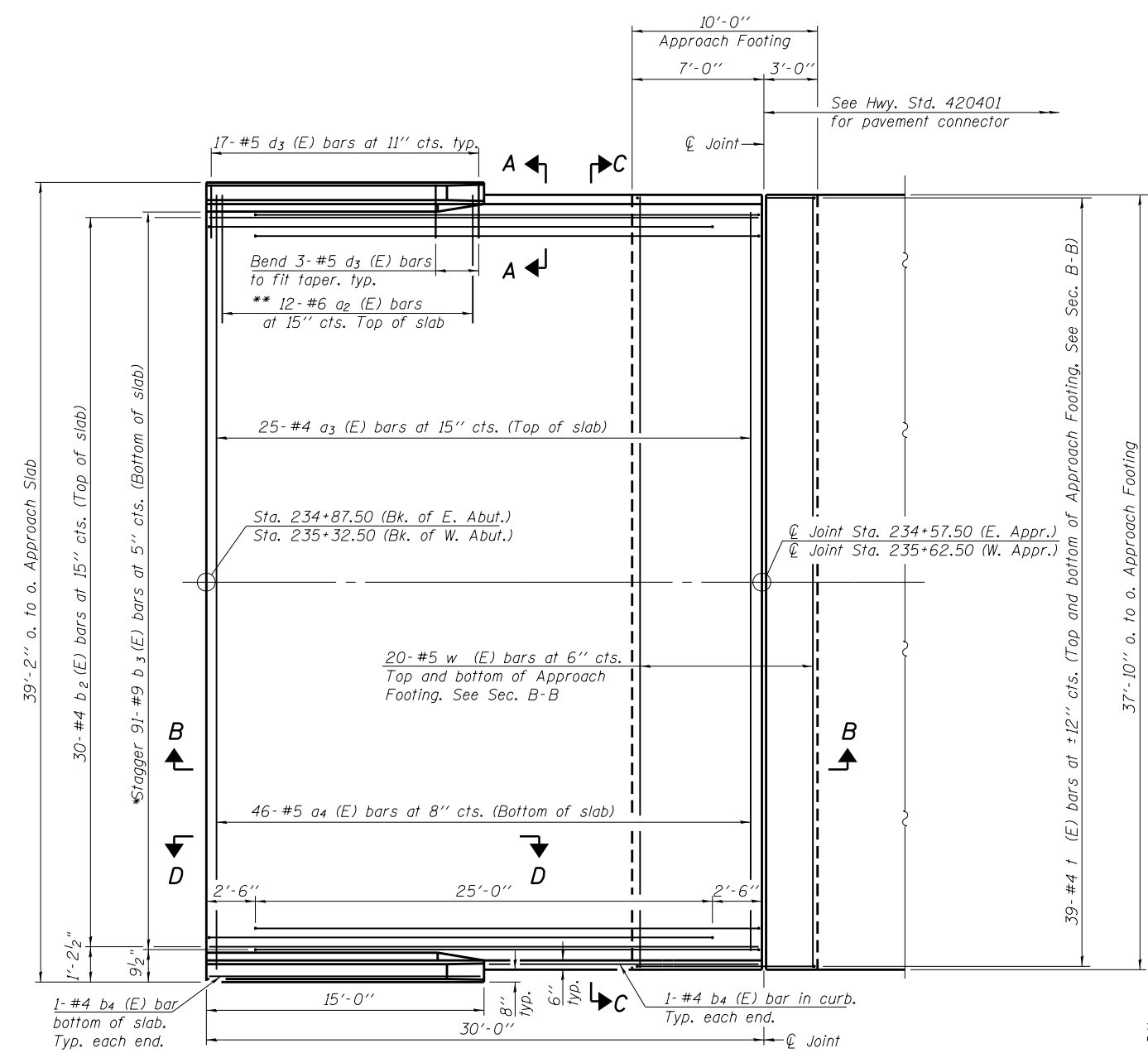
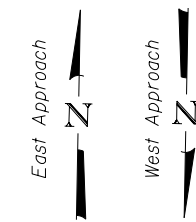
**INTEGRAL ABUTMENT
 DIAPHRAGM DETAILS
 STRUCTURE NO. 051-0065**

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F./M. S.
CHECKED	M. T.

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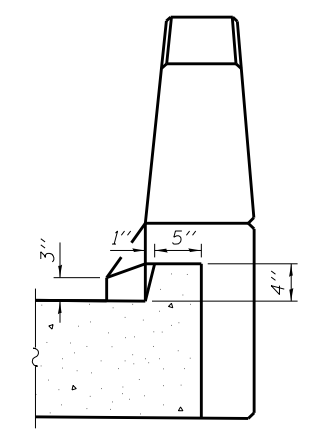
SHEET NO. 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	30
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

Notes:
See sheet 11 of 19 for Sections B-B & C-C.
 a_3 (E), a_4 (E), and w (E) bar spacings measured parallel to \varnothing Rdwy.

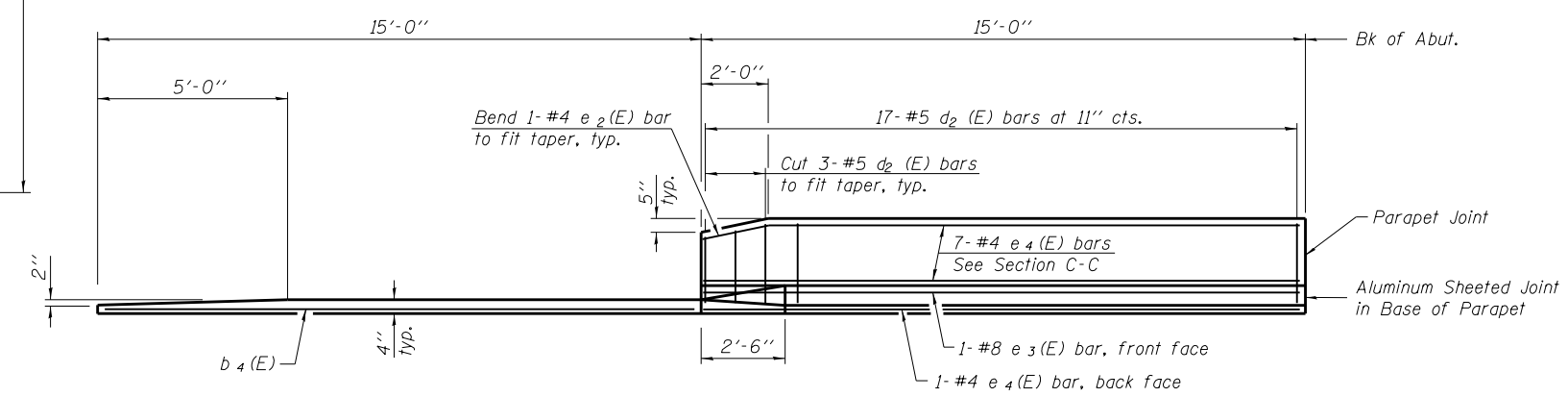


PLAN

* Tilt #9 b_3 (E) bars as required to maintain clearance.
** Alternate with a_3 (E) bars, typ. ea. parapet.



VIEW A-A



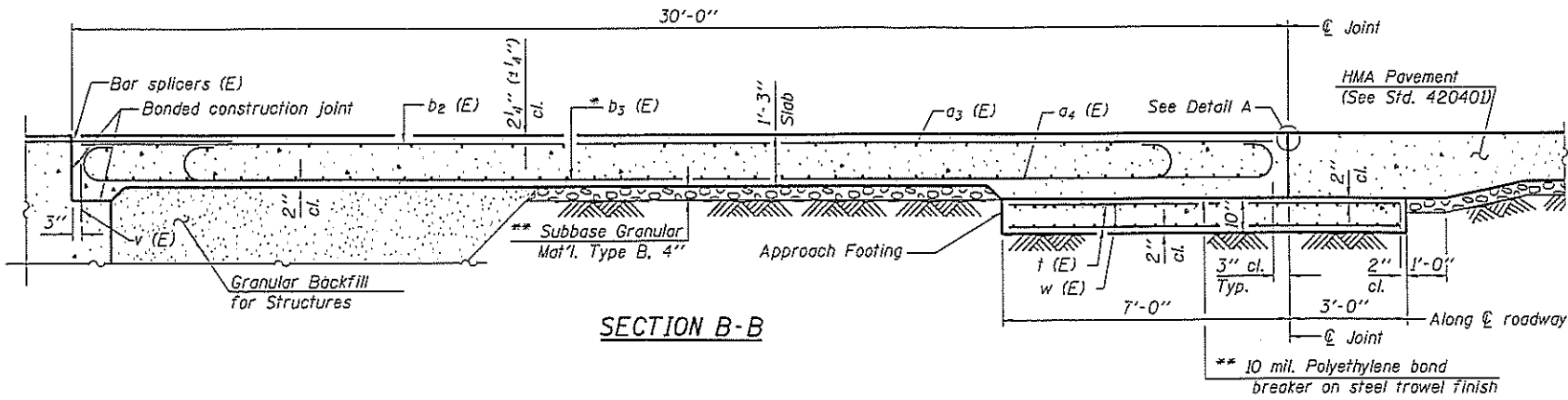
VIEW D-D

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F./M. S.
CHECKED	M. T.

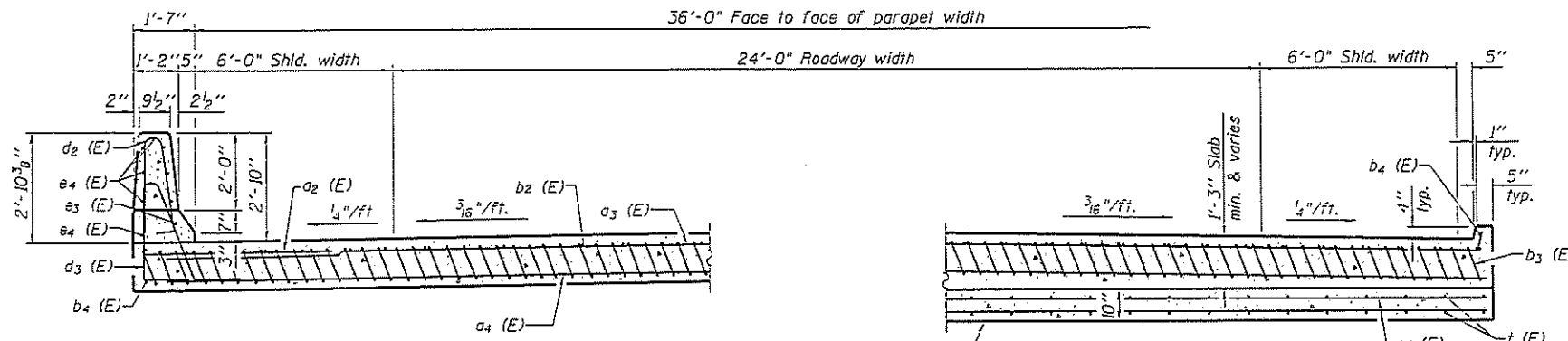
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ENGINEERING INC.
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BRIDGE APPROACH SLAB PLAN
STRUCTURE NO. 051-0065

SHEET NO. 10 19 SHEETS	F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 31
	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



SECTION B-B

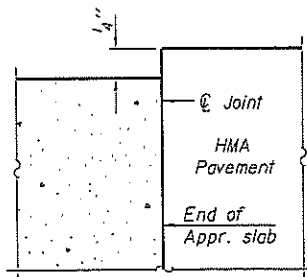


SECTION C-C

(See Plan for dimensions not shown)

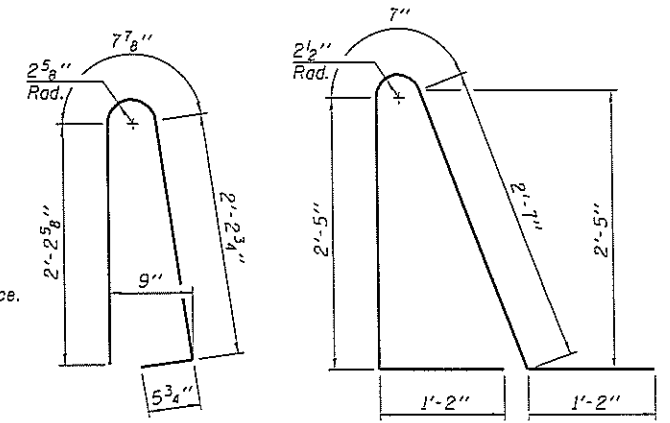
NEAR ABUTMENT

AT APPROACH FOOTING
E. App. Elev. 459.86
W. App. Elev. 460.39
(Level out to out)



FLEXIBLE PAVEMENT
DETAIL A

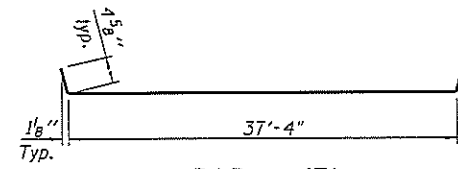
Notes:
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v (E) bar details, see sheet 8 of 19.
 The approach footing maximum applied service bearing pressure (Omax) = 2.0 ksf.
 For bar splicer details, see sheet 16 of 19.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.
 For additional parapet details, see sheet 8 of 19.



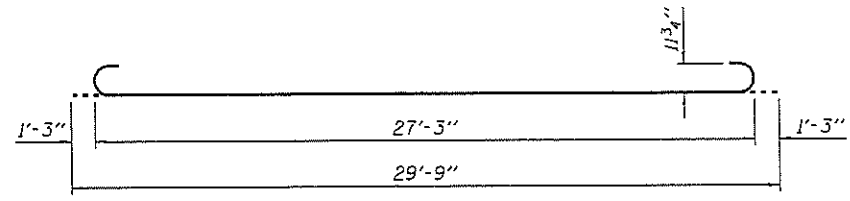
BAR d2 (E)

BAR d3 (E)

* Tilt #9 b3 (E) bars as required to maintain clearance.
 ** Cost included with Concrete Superstructure.



BAR a3 (E)



BAR b2 (E)

APPROACH SLABS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2 (E)	48	#6	6'-0"	—
a3 (E)	50	#4	38'-1"	—
a4 (E)	92	#5	37'-6"	—
b2 (E)	60	#4	29'-8"	—
b3 (E)	182	#9	29'-9"	—
b4 (E)	8	#4	14'-8"	—
d2 (E)	68	#5	5'-7"	⤴
d3 (E)	68	#5	7'-11"	⤴
e3 (E)	4	#8	14'-8"	—
e4 (E)	32	#4	14'-8"	—
t (E)	156	#4	9'-8"	—
w (E)	80	#5	37'-6"	—
Concrete Superstructure		Cu. Yd.	7.2	
Concrete Structures		Cu. Yd.	23.3	
Reinforcement Bars, Epoxy Coated		Pound	30,545	
Concrete Superstructure (Approach Slab)		Cu. Yd.	116.7	

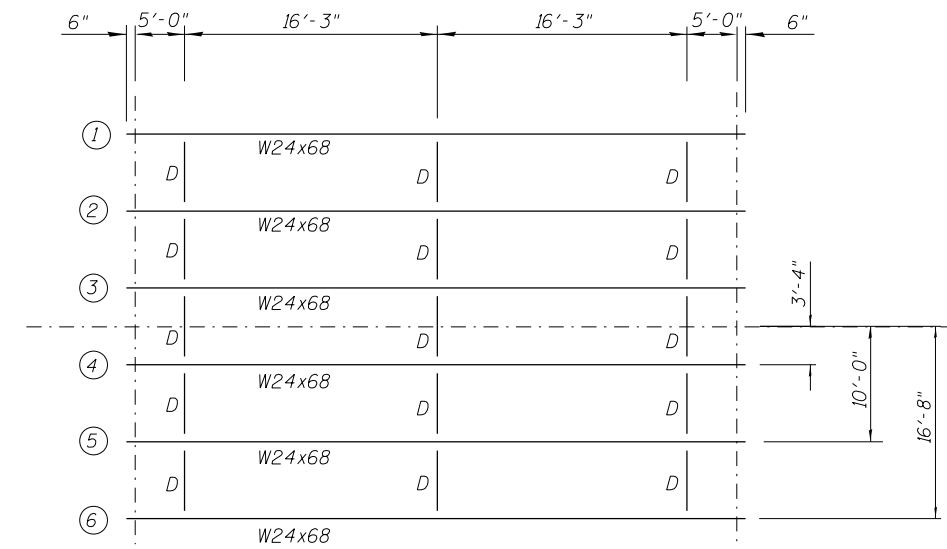
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 051-0065

DESIGNED M. T.
 CHECKED T. F.
 DRAWN T. F./M. S.
 CHECKED M. T.

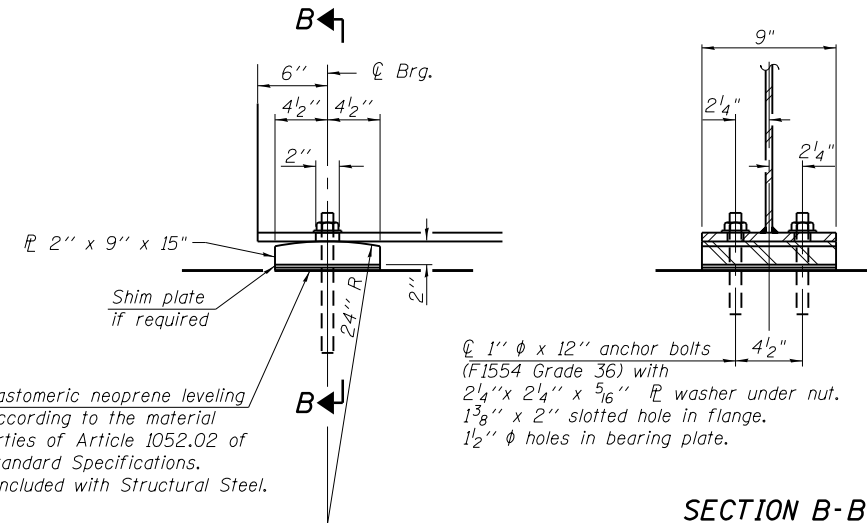
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 2852 SOUTH 11TH STREET
 SPRINGFIELD, IL. 62703
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SHEET NO. 11	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	32
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
	FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

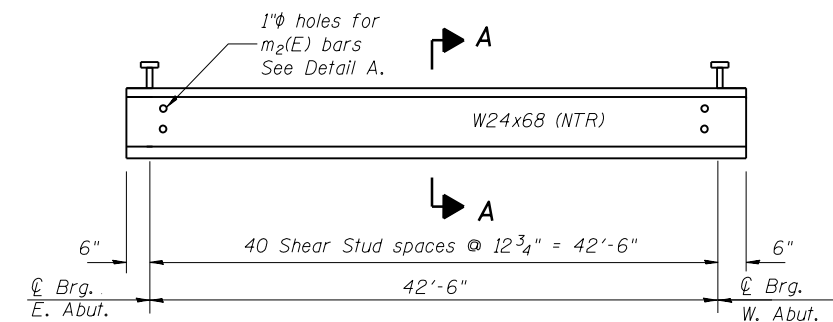


FRAMING DIAPHRAGM

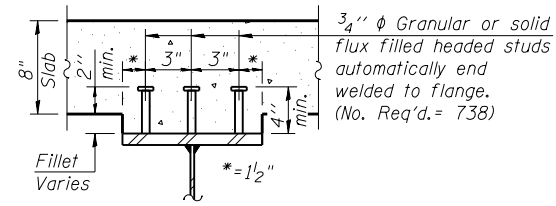


ELEVATION AT ABUTMENT

SECTION B-B

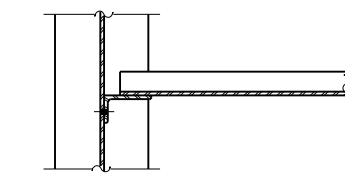


BEAM ELEVATION

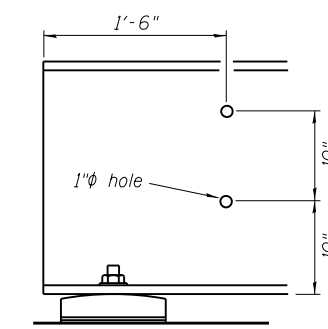


SECTION A-A

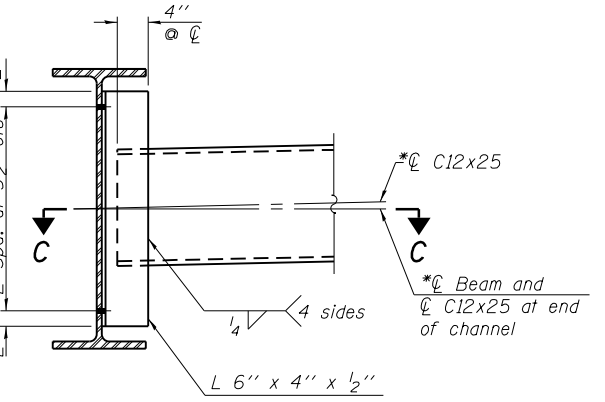
FIXED BEARING AT ABUTMENT



SECTION C-C



DETAIL A



INTERIOR DIAPHRAGM D

INTERIOR BEAM MOMENT TABLE		.5 Span
I_s	(in ⁴)	1830
$I_c(n)$	(in ⁴)	6540
$I_c(3n)$	(in ⁴)	4963
S_s	(in ³)	154
$S_c(n)$	(in ³)	263
$S_c(3n)$	(in ³)	238
DC1	(k/')	0.750
M _{DC1}	(k)	169
DC2	(k/')	0.150
M _{DC2}	(k)	34
DW	(k/')	0.334
M _{DW}	(k)	75
M _{Σ · IM}	(k)	444
M _u (Strength I)	(k)	1143
φ _r M _n	(k)	1440
f _s DC1	(ksi)	13.2
f _s DC2	(ksi)	1.6
f _s DW	(ksi)	3.8
f _s 1.3(Σ · IM)	(ksi)	26.3
f _s (Service II)	(ksi)	44.9
f _s (Total)(Strength I)	(ksi)	---
V _r	(k)	17.38

* Compact sections

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 (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in⁴ and in³).

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_{Σ · 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_{Σ · IM}

φ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 (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_{Σ · IM}

f_s (Total)(Strength 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_{Σ · IM}

V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

INTERIOR BEAM REACTION TABLE		Abut.
R _{DC1}	(k)	16.7
R _{DC2}	(k)	3.2
R _{DW}	(k)	7.1
R _{Σ · IM}	(k)	63.5
R _{Total}	(k)	90.5

Note: Unfactored Loads.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	Each	24

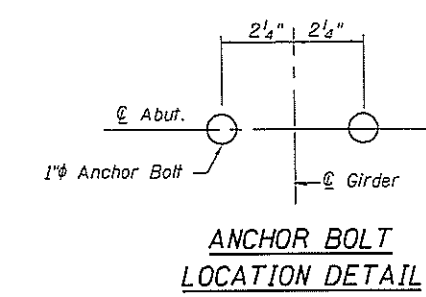
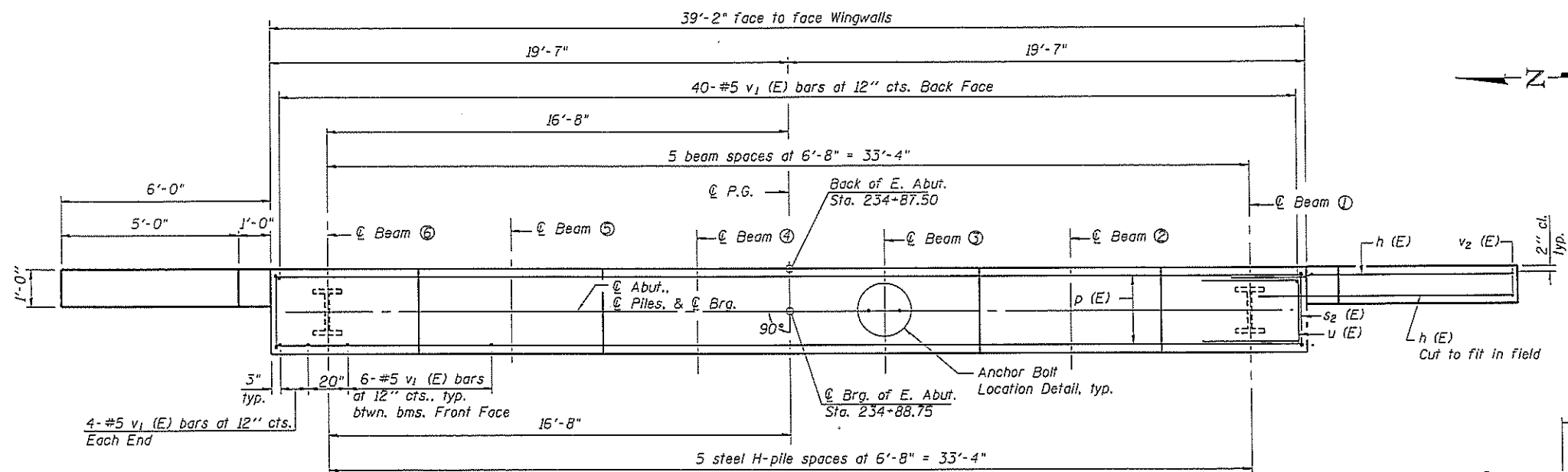
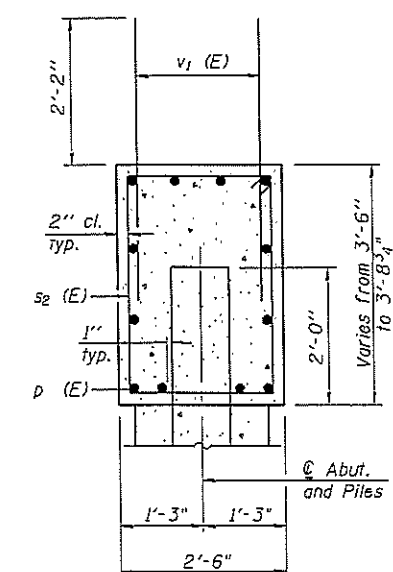
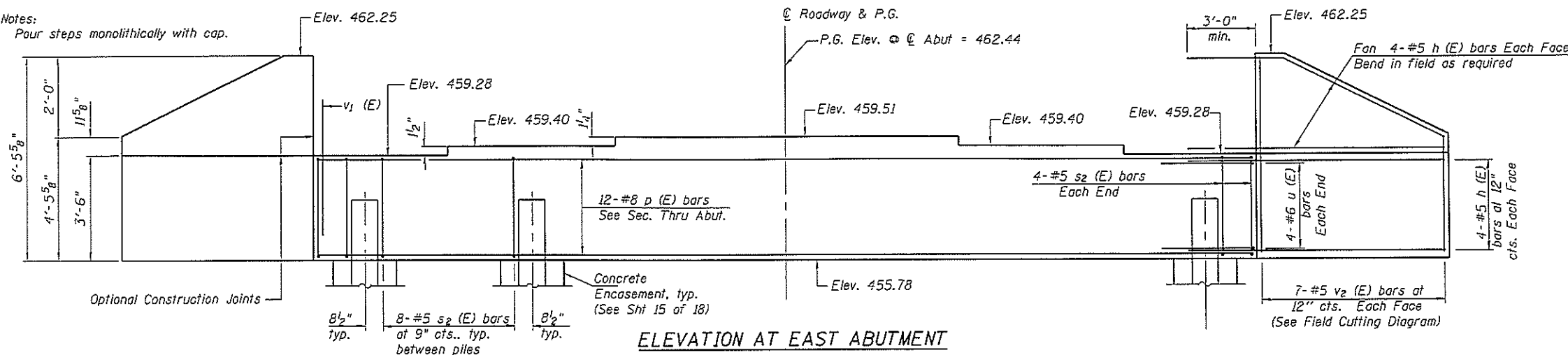
**FRAMING PLAN &
FIXED BEARING DETAILS
STRUCTURE NO. 051-0065**

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F./M. S.
CHECKED	M. T.

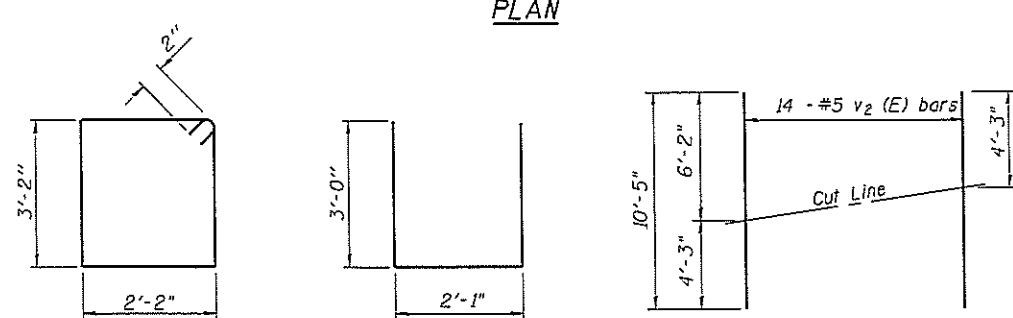
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ENGINEERING INC.
2852 SOUTH 11TH STREET
SPRINGFIELD, IL. 62703
(217) 529-5577

SHEET NO. 12	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	33
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

Notes:
Pour steps monolithically with cap.



E. ABUT. PILE DATA
 Type: HP 12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 209 kips
 Est. Length: 50.75'
 No. Production Piles: 5
 No. Test Piles: 1



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h (E)	32	#5	10'-0"	—
p (E)	12	#8	38'-10"	—
s ₂ (E)	48	#5	11'-0"	□
u (E)	8	#6	8'-1"	—
v ₁ (E)	78	#5	4'-4"	—
v ₂ (E)	14	#5	10'-5"	—
Structure Excavation	Cu. Yd.		82.5	
Concrete Structures	Cu. Yd.		15.7	
Reinforcement Bars, Epoxy Coated	Pound		2,735	
Furnishing Steel Piles HP12x53	Foot		254	
Driving Piles	Foot		254	
Test Pile Steel HP12x53	Each		1	
Concrete Encasement	Cu. Yd.		2.1	

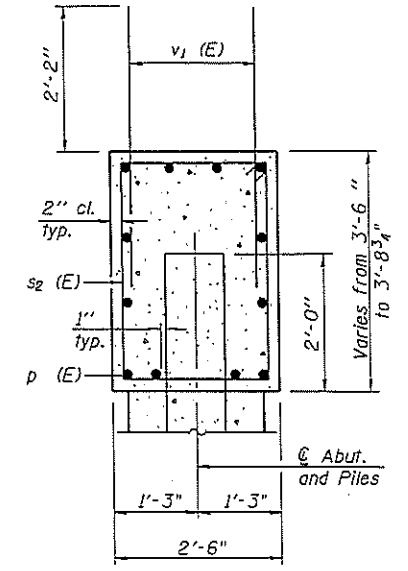
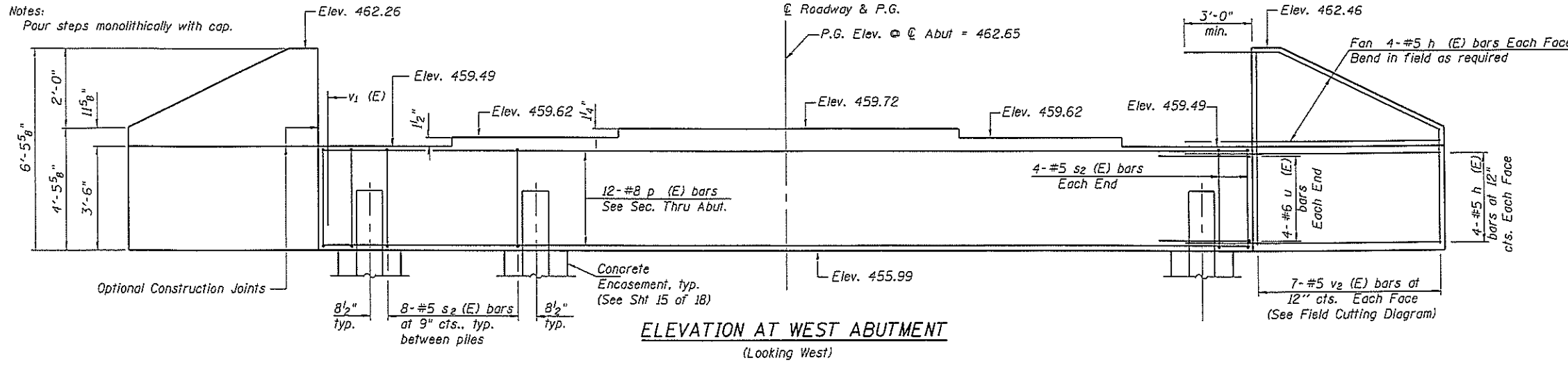
For details of Bar Splicers, see sheet 16 of 19.
 For details of piles and Concrete Encasement, see sheet 15 of 19.
 Space reinforcement bars to miss anchor bolts.

DESIGNED M. T.
 CHECKED T. F.
 DRAWN T. F./M. S.
 CHECKED M. T.

FUHRMANN ENGINEERING INC.
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 SPRINGFIELD, IL. 62703
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EAST ABUTMENT STRUCTURE NO. 051-0065

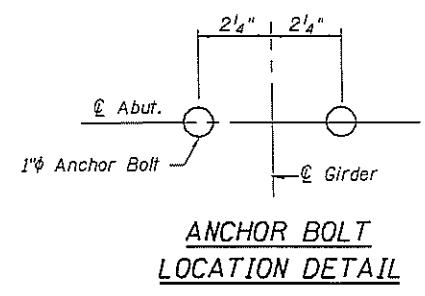
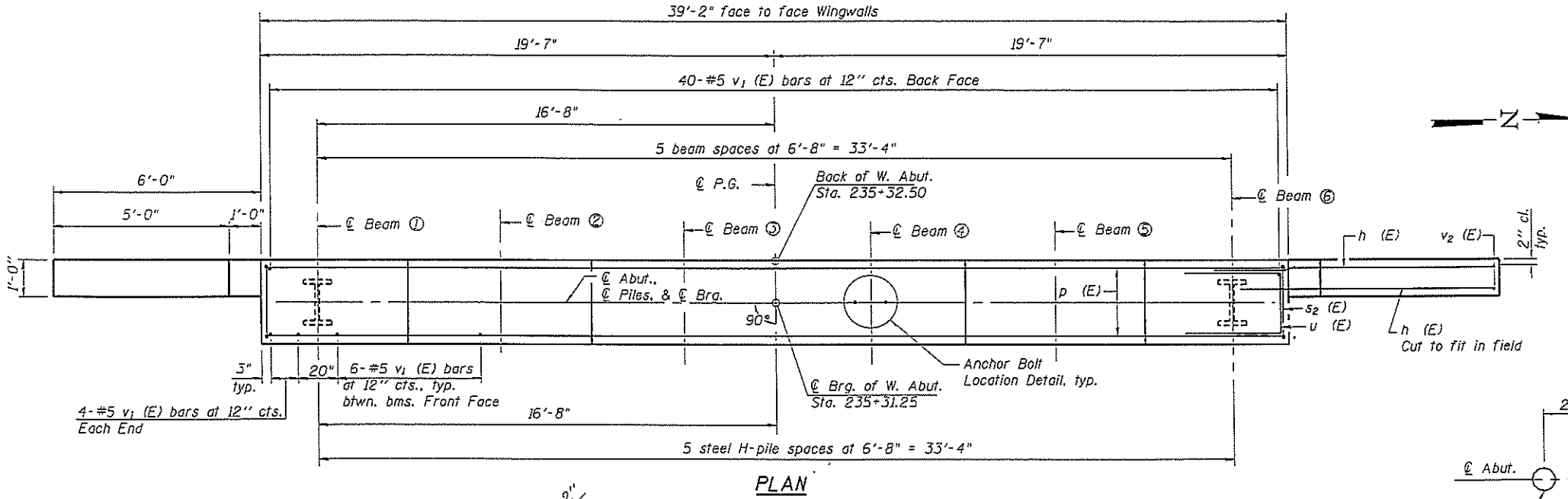
SHEET NO. 13	F.A.S. RTE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 34
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



BILL OF MATERIAL

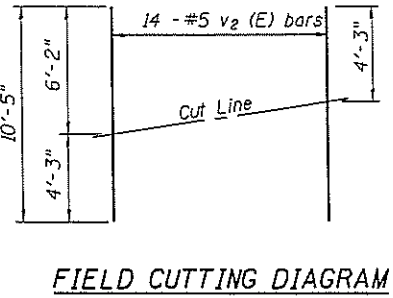
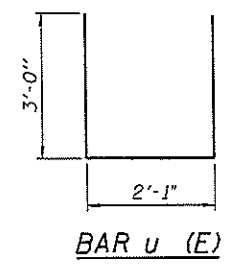
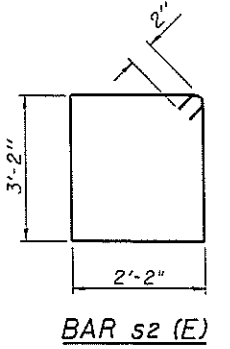
Bar	No.	Size	Length	Shape
h (E)	32	#5	10'-0"	—
p (E)	12	#8	38'-10"	—
s ₂ (E)	48	#5	11'-0"	□
u (E)	8	#6	8'-1"	□
v ₁ (E)	78	#5	4'-4"	—
v ₂ (E)	14	#5	10'-5"	—
Structure Excavation Cu. Yd. 82.5				
Concrete Structures Cu. Yd. 15.7				
Reinforcement Bars, Epoxy Coated Pound 2,735				
Furnishing Steel Piles HP12x53 Foot 203				
Driving Piles Foot 203				
Test Pile Steel HP12x53 Each 1				
Concrete Encasement Cu. Yd. 2.1				

For details of Bar Splicers, see sheet 16 of 19.
 For details of piles and Concrete Encasement, see sheet 15 of 19.
 Space reinforcement bars to miss anchor bolts.



W. ABUT. PILE DATA

Type: HP 12x53
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 209 kips
 Est. Length: 40.5'
 No. Production Piles: 5
 No. Test Piles: 1

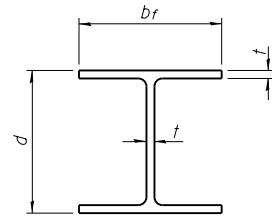


DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F./M. S.
CHECKED	M. T.

FUHRMANN ENGINEERING INC.
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 SPRINGFIELD, IL 62703
 (217) 529-5577

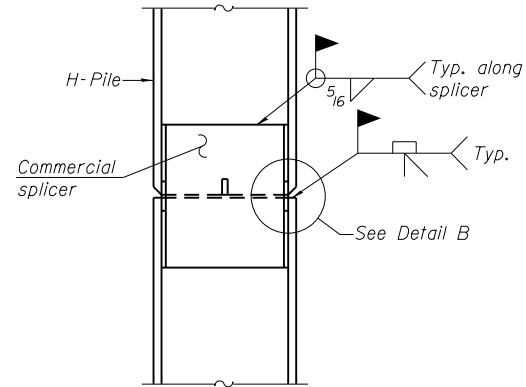
SHEET NO. 14	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	35
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

**WEST ABUTMENT
 STRUCTURE NO. 051-0065**

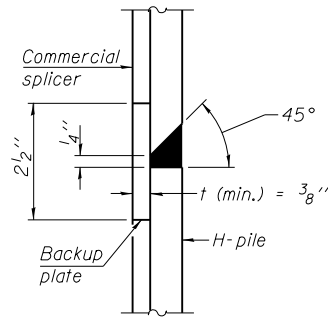


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	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"	1 1/16"	24"
x74	12 1/8"	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"

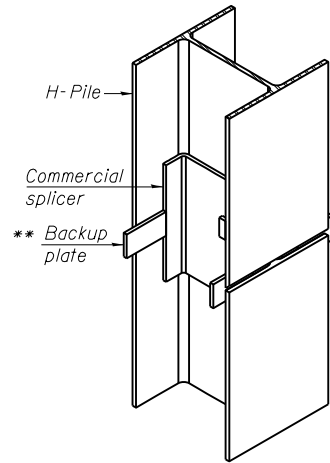


ELEVATION

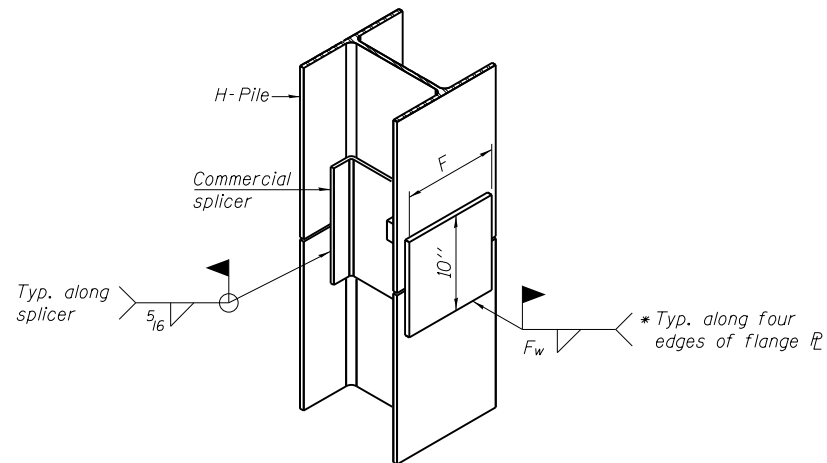


DETAIL "B"

WELDED COMMERCIAL SPLICE



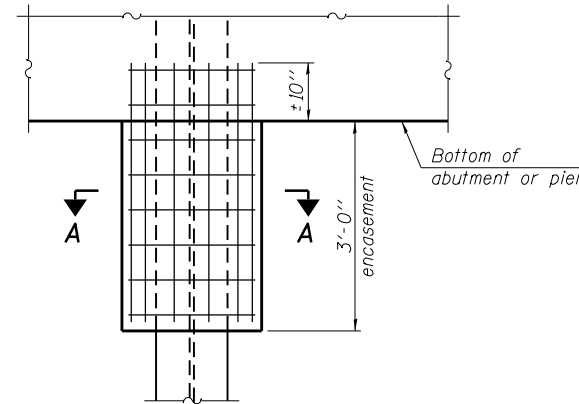
ISOMETRIC VIEW



ISOMETRIC VIEW

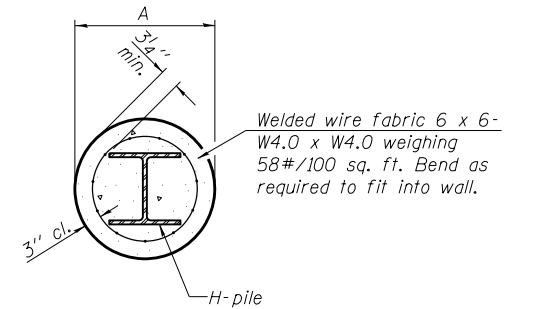
WELDED COMMERCIAL SPLICE ALTERNATE

- * 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.).



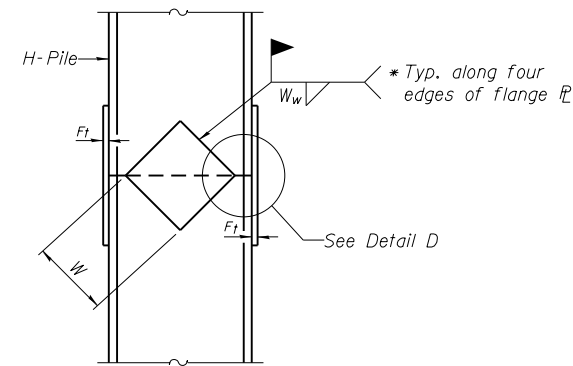
ELEVATION

PILE ENCASEMENT

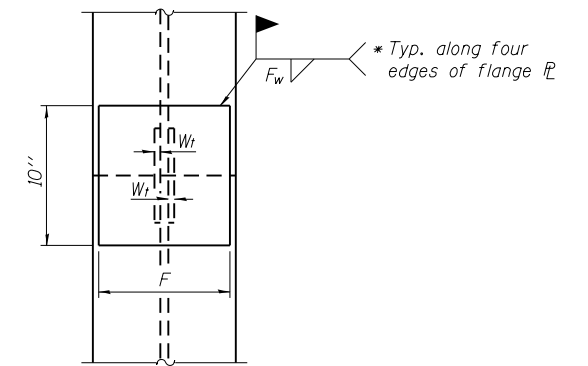


SECTION A-A

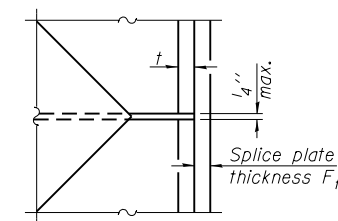
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

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

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

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2852 SOUTH 11TH STREET
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SHEET NO. 15
19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	2B-1	LAWRENCE	59	36
SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

**HP PILE DETAILS
STRUCTURE NO. 051-0065**

DESIGNED M. T.
CHECKED T. F.
DRAWN T. F./M. S.
CHECKED M. T.

F-HP

11-1-09

The diameter of this part is the same as the diameter of the bar spliced.

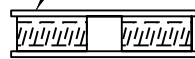
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

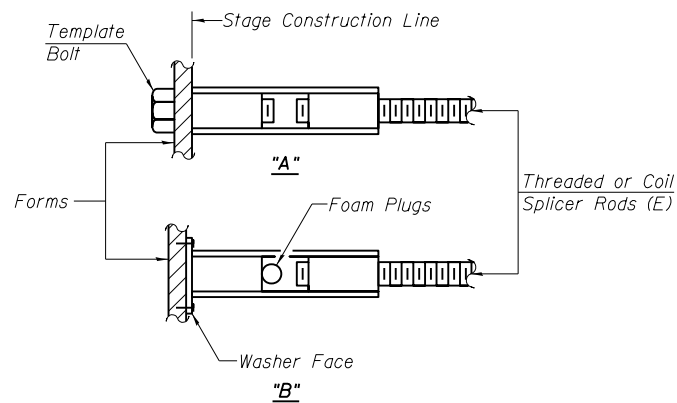
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

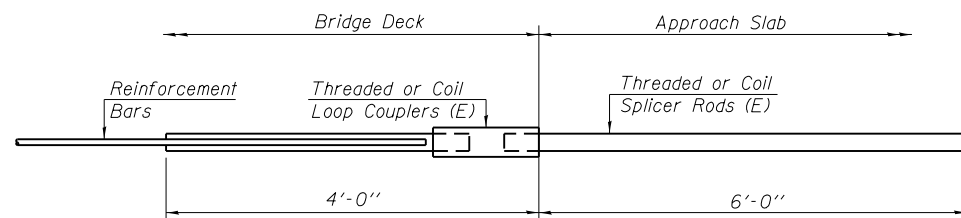
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 78

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F./M. S.
CHECKED	M. T.

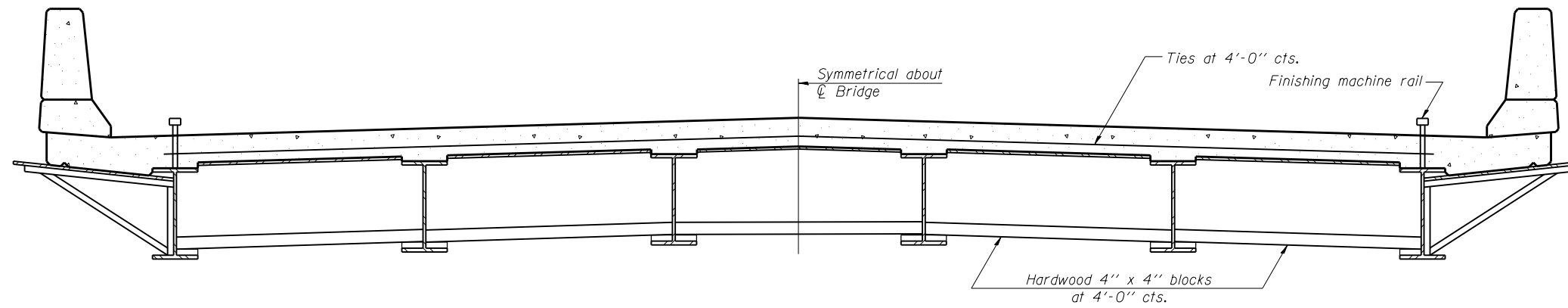
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SHEET NO. 16	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	37
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

**BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 051-0065**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

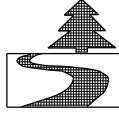
When cantilever forming brackets are used, the work shall be done according to Article 503.06 (b) of the Standard Specifications, except as modified below and in the details shown on this sheet.
The finishing machine rails shall be placed on the top flange of the exterior beams.
The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.
For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



FORM BRACES FOR
STANDARD CONSTRUCTION

CANTILEVER FORMING BRACKETS
FOR SUPERSTRUCTURES WITH
W27 BEAMS AND SMALLER
STRUCTURE NO. 051-0065

DESIGNED	M. T.
CHECKED	T. F.
DRAWN	T. F.
CHECKED	M. T.


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SHEET NO. 17	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1806	2B-1	LAWRENCE	59	38
19 SHEETS	SN 051-0065		CONTRACT NO. 74106		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					



SOIL BORING LOG

ROUTE FAS 1806 DESCRIPTION IL 250 over Un-named stream LOGGED BY E. Sandschafer
SECTION 2B-1 LOCATION Sec 5 - SW 1/4, Sec 8 - NW 1/4, SEC., TWP. 3 N, RNG. 12 W, 3 PM
COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for Depth (ft), Blows (B), SPT (S), and Soil Description. Includes data for various soil layers like 'Soft, very damp, gray, SILTY LOAM' and 'Stiff, damp, gray, CLAY LOAM TILL'.

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)



SOIL BORING LOG

ROUTE FAS 1806 DESCRIPTION IL 250 over Un-named stream LOGGED BY E. Sandschafer
SECTION 2B-1 LOCATION Sec 5 - SW 1/4, Sec 8 - NW 1/4, SEC., TWP. 3 N, RNG. 12 W, 3 PM
COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for Depth (ft), Blows (B), SPT (S), and Soil Description. Includes data for various soil layers like 'Soft, very damp, gray, SILTY LOAM' and 'Stiff, damp, gray, CLAY LOAM TILL'.

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)



SOIL BORING LOG

ROUTE FAS 1806 DESCRIPTION IL 250 over Un-named stream LOGGED BY E. Sandschafer
SECTION 2B-1 LOCATION Sec 5 - SW 1/4, Sec 8 - NW 1/4, SEC., TWP. 3 N, RNG. 12 W, 3 PM
COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for Depth (ft), Blows (B), SPT (S), and Soil Description. Includes data for various soil layers like 'Stiff, damp, gray, CLAY LOAM TILL' and 'Very stiff, damp, gray, SILTY CLAY TILL'.

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)

Table with rows: DESIGNED M. T., CHECKED T. F., DRAWN T. F., CHECKED M. T.

FUHRMANN ENGINEERING INC. 2852 SOUTH 11TH STREET SPRINGFIELD, IL 62703 (217) 529-5577

Table with columns: SHEET NO. 18, 19 SHEETS; F.A.S. RTE. 1806; SECTION 2B-1; COUNTY LAWRENCE; TOTAL SHEETS 59; SHEET NO. 39; SN 051-0065; CONTRACT NO. 74106; FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT

BORINGS STRUCTURE NO. 051-0065



SOIL BORING LOG

Page 1 of 3

Date 10/27/08

ROUTE FAS 1806 DESCRIPTION IL 250 over Un-named stream LOGGED BY E. Sandschafer
 SECTION 2B-1 LOCATION Sec 5 - SW 1/4, Sec 8 - NW 1/4, SEC., TWP. 3 N, RNG. 12 W, 3 PM
 COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH (ft)	BLOW COUNT (B)	UNCONSOLIDATED QUANTITY (Q _u)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (B)	UNCONSOLIDATED QUANTITY (Q _u)	MOISTURE (%)
051-0051	235+10	0				5" asphalt on 10" concrete pavement				
		17	17			Stiff, damp, gray, SANDY CLAY LOAM				
		28	1.5	16						
		16	S							
		3								
		2	1.5	20		Very soft, wet, gray, SILTY LOAM muck				
		1	B							
		4	1.1	21		Stiff, damp, gray, SANDY CLAY LOAM				
		5	B							
		2								
		2	0.8	23		Soft, very damp, gray, SILTY LOAM				
		3	B							
		4	1.6	20		Stiff, damp, red marbled gray, SANDY CLAY LOAM TILL				
		5	B							
		1								
		4	1.1	18						
		4	B							
		5								
		8	3.2	14		Very stiff, damp, brown marbled gray, CLAY LOAM TILL				
		13	BS							
		4								

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)



ROCK CORE LOG

Page 3 of 3

Date 10/27/08

ROUTE FAS 1806 DESCRIPTION IL 250 over Un-named stream LOGGED BY E. Sandschafer
 SECTION 2B-1 LOCATION Sec 5 - SW 1/4, Sec 8 - NW 1/4, SEC., TWP. 3 N, RNG. 12 W, 3 PM
 COUNTY Lawrence CORING METHOD Rotary, surf set diamond bit

STRUCT. NO.	Station	CORING BARREL TYPE & SIZE	RECOVERY (%)	QUANTITY (%)	DEPTH (ft)	TIME (min/ft)	STRENGTH (tsf)
051-0051	235+10	NW, conv dbl bbl, split inner					
2 West	235+55	Core Diameter 2.06 in					
		Top of Rock Elev. 421.43 ft					
		Begin Core Elev. 420.53 ft					
		Ground Surface Elev. 460.93 ft					
					420.53	B2C1	77 75 1.3
		Gray, slightly to moderately weathered, SANDY CLAY SHALE					
		Rock core B2C1 from 43.4' to 43.9' depth Qu = 7.9 tsf.					
					45		
					100	B2C2	100 100 1.1
		Rock core B2C2 from 49.9' to 50.4' depth Qu = 14.2 tsf.					
		Extent of exploration			410.53		
		Benchmark: BM 509 chiseled square on SE wingwall of existing structure, Sta 235+00, 17.5' Rt = 460.93' elevation. Provided by Program Development.					
					50		
					55		
					60		

Color pictures of the cores Available on request
 Cores will be stored for examination until 10/27/09
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

Field Rock Core Log a.xls

Field Rock Core Log

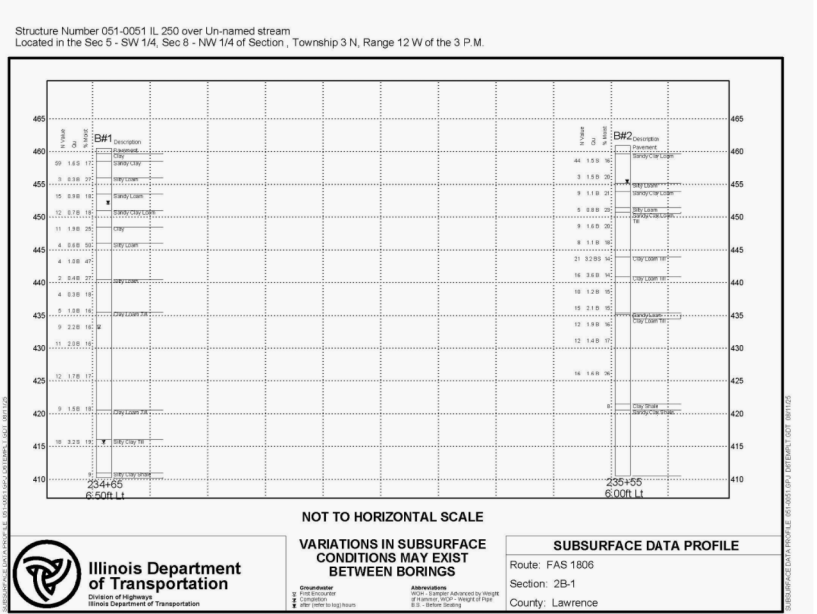
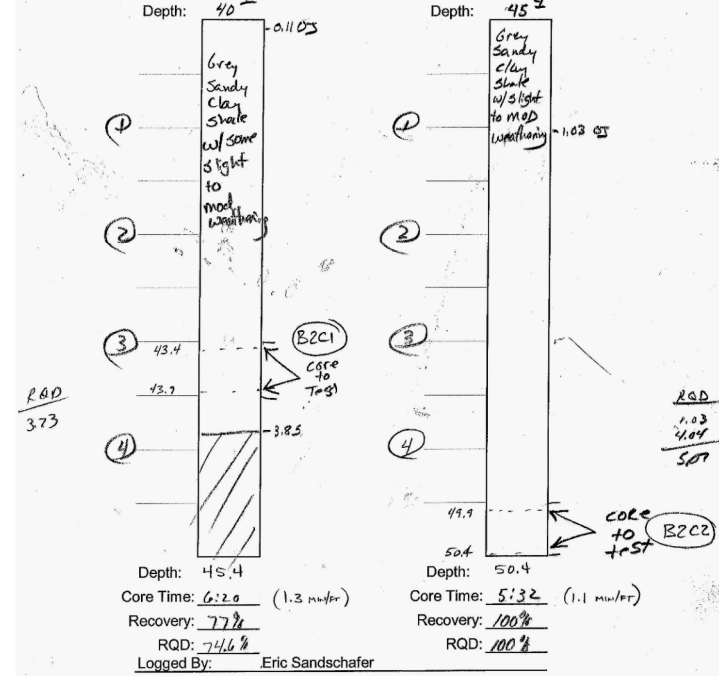
Date: 10-27-08

Structure #: 051-0051

Boring #: 2

Rock Core #: 1

Rock Core #: 2



DESIGNED M. T.
 CHECKED T. F.
 DRAWN T. F.
 CHECKED M. T.

Illinois Department of Transportation
 VARIATIONS IN SUBSURFACE CONDITIONS MAY EXIST BETWEEN BORINGS
 SUBSURFACE DATA PROFILE
 Route: FAS 1806
 Section: 2B-1
 County: Lawrence

FUHRMANN ENGINEERING INC.
 2852 SOUTH 11TH STREET
 SPRINGFIELD, IL. 62703
 (217) 529-5577

SHEET NO. 19		BORINGS	
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
1806	2B-1	LAWRENCE	59
19 SHEETS		SN 051-0065	CONTRACT NO. 74106
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT			

EROSION CONTROL GENERAL NOTES



EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION:

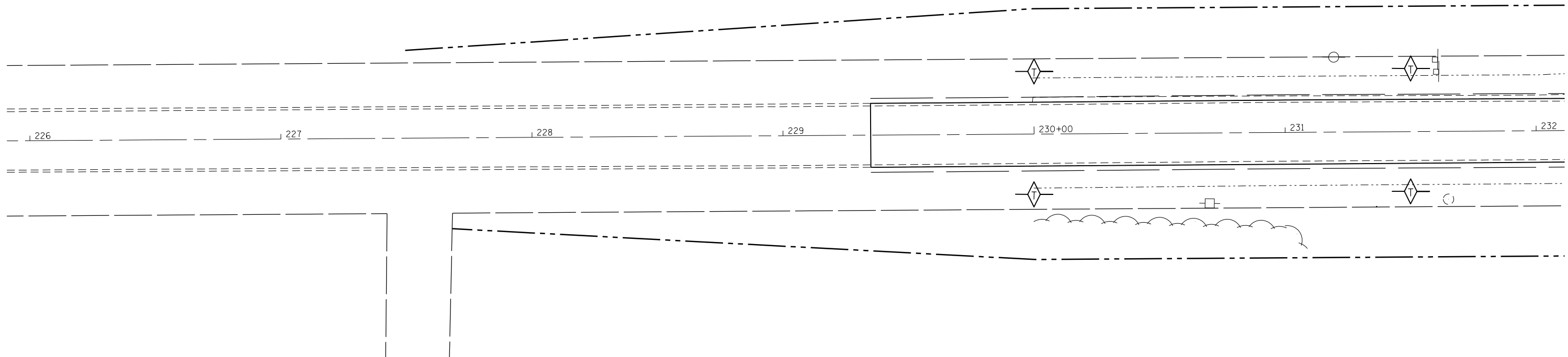
1. THE AREAS OF EXCAVATION AND EMBANKMENT PLACEMENT SHALL BE MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE IMPROVEMENT AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION, MINIMIZING SILTATION AT THE RIGHT-OF-WAY LINE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION 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:

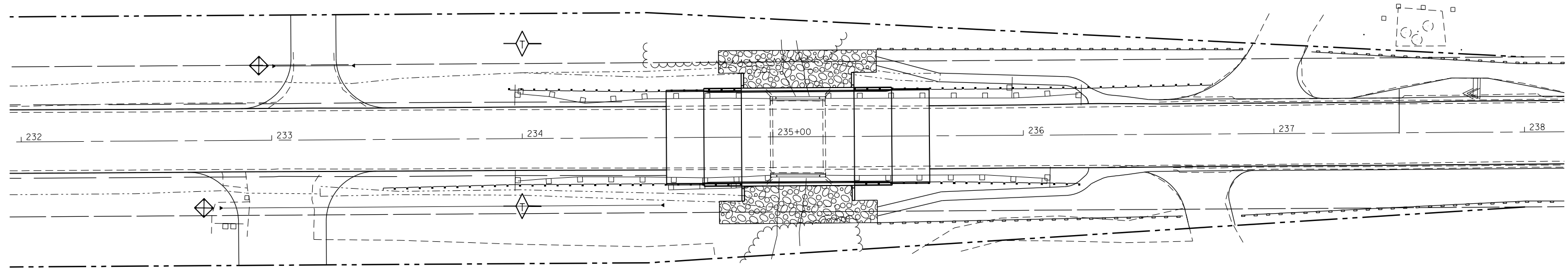
1. EXCAVATION AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADED.
 - (a) TEMPORARY EROSION CONTROL SYSTEMS SHALL REMAIN IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY WITH ALL PROPOSED TURF AREAS SEEDED AND A PROPER STAND ESTABLISHED.






LEGEND

- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74106\Drawings\CAD\Sheets\0774106-sht-erosion		DRAWN	REVISION			1806	2B-1	LAWRENCE	59	41
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 74106	
	PLOT DATE = 8/2/2016	DATE -	REVISED -		SCALE: 20	SHEET 1 OF 3 SHEETS		STA.	TO STA.	
ILLINOIS FED. AID PROJECT										



LEGEND

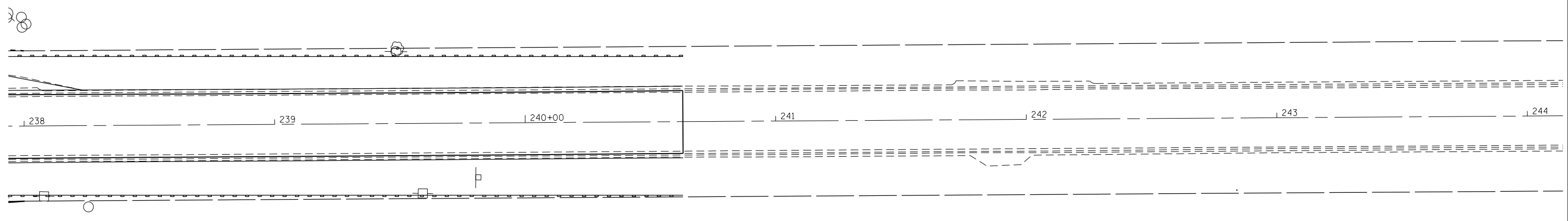
-  TEMPORARY DITCH CHECKS
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/2/2016	DATE -	REVISED -




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL			
SCALE: 20	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	2B-1	LAWRENCE	59	42
CONTRACT NO. 74106				
ILLINOIS FED. AID PROJECT				



LEGEND

-  TEMPORARY DITCH CHECKS
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER

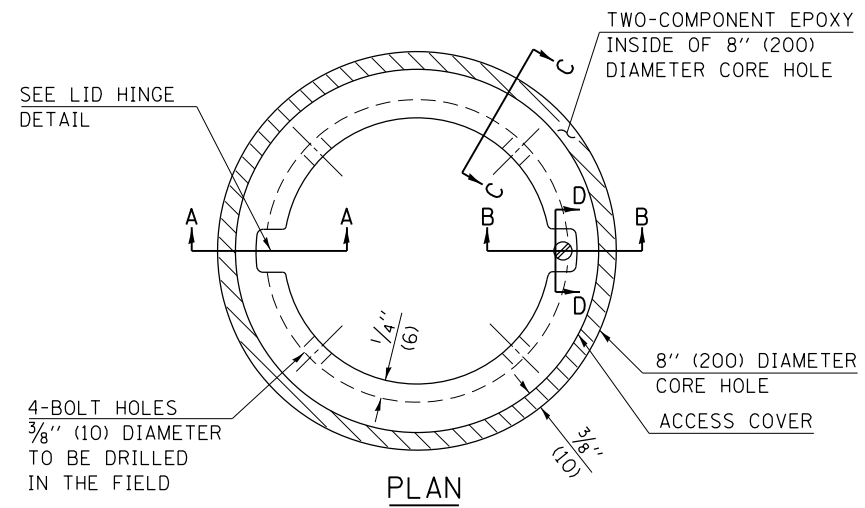
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/2/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL

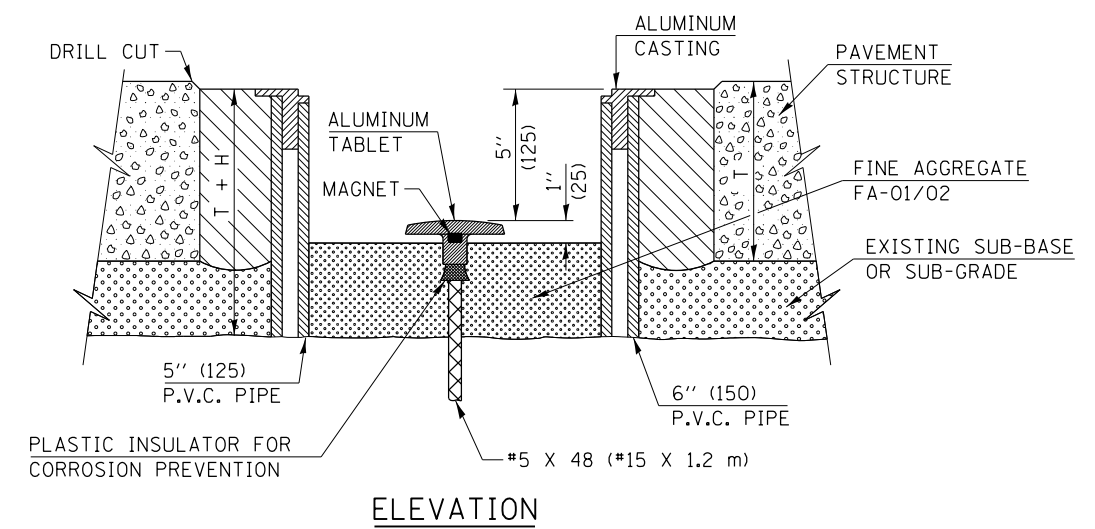
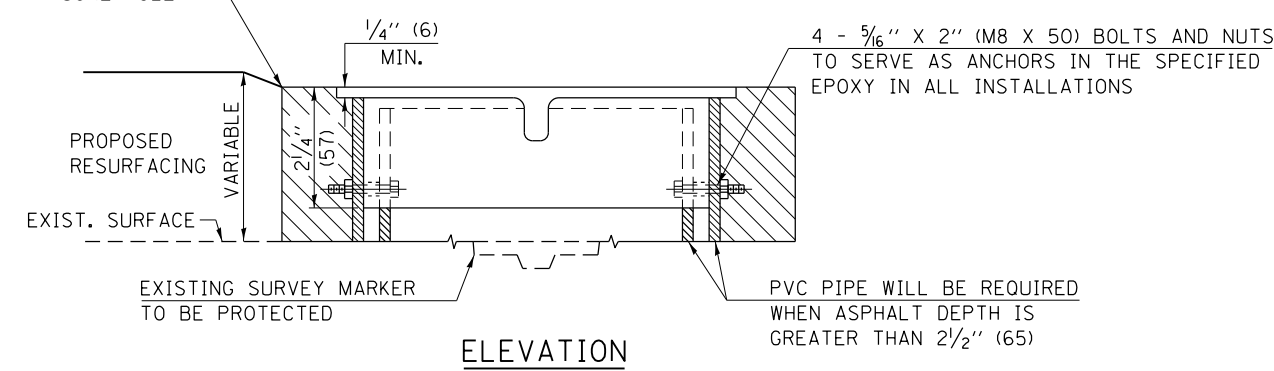
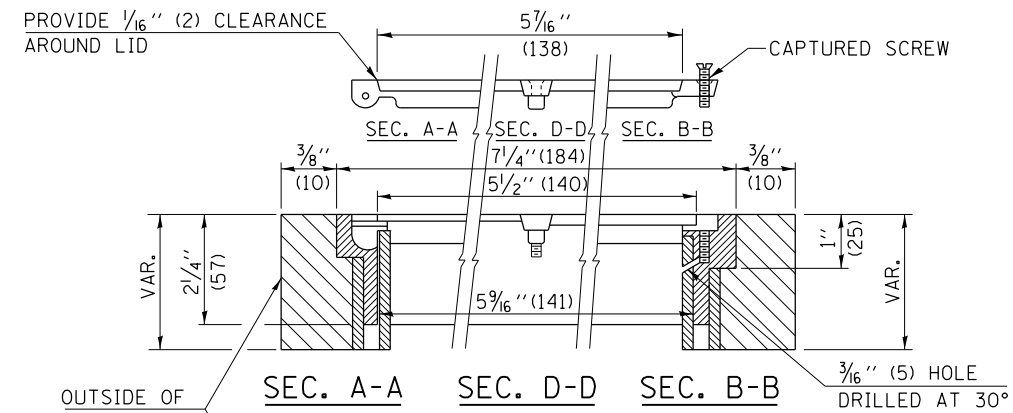
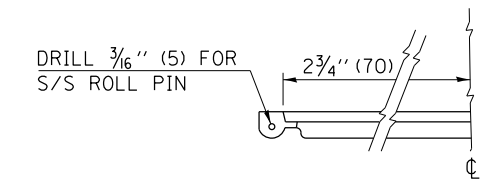
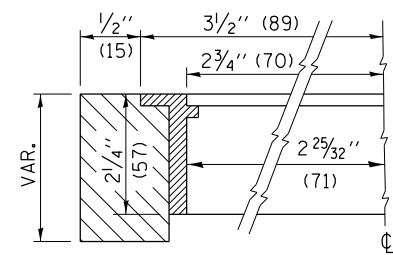
SCALE: 20 SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	2B-1	LAWRENCE	59	43
CONTRACT NO. 74106				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ALUMINUM CASTING
 - 5" (125) OR 6" (150) P.V.C. PIPE
 - TWO-COMPONENT EPOXY
- T = THICKNESS OF PAVEMENT STRUCTURE
- H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)

BILL OF MATERIAL	
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS,	
4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY,	
5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).	



NOT TO SCALE

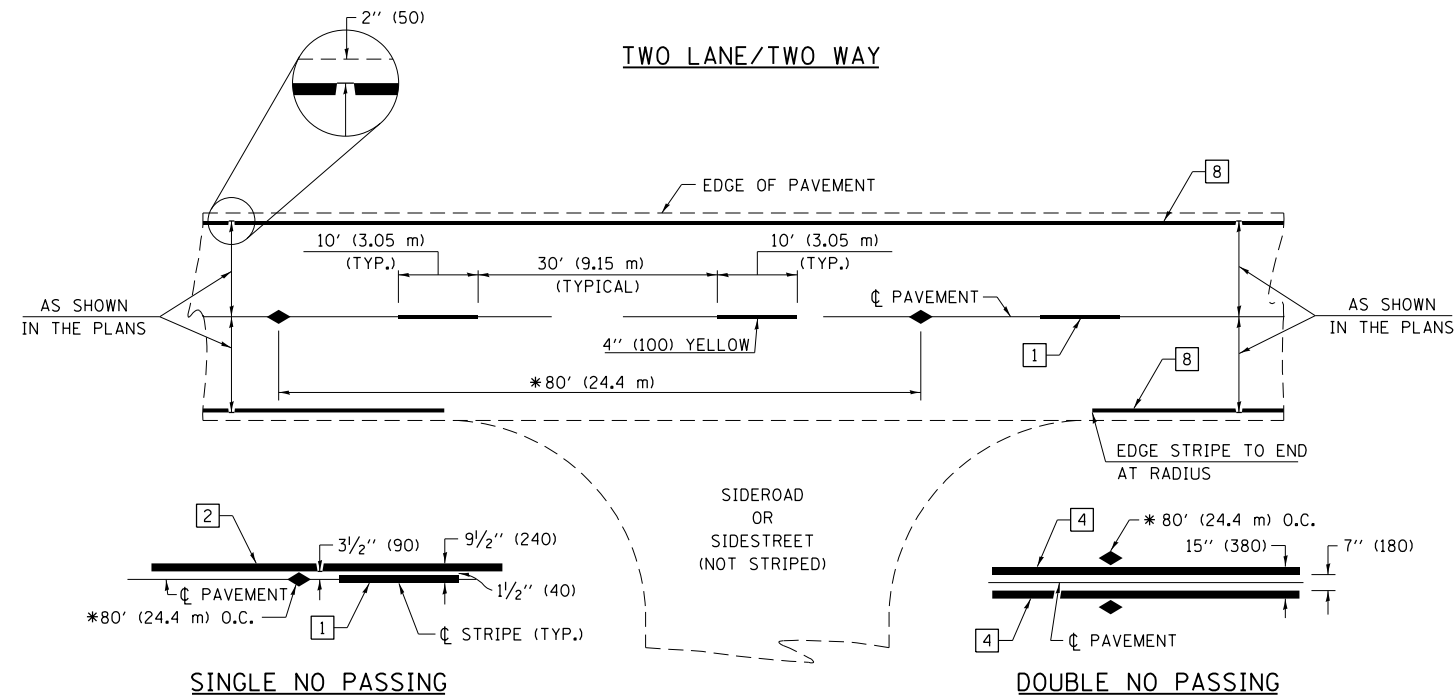
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED - MAD 6-11
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MARKER VAULT			
SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

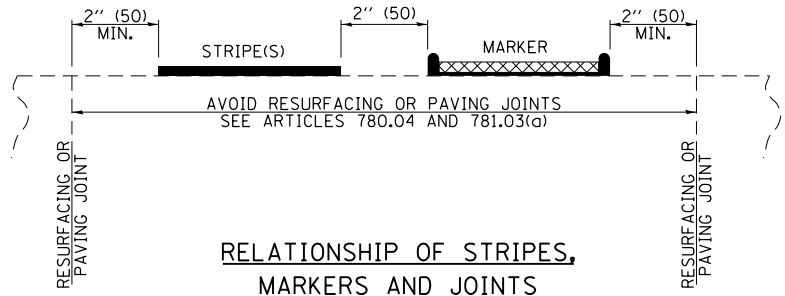
DISTRICT 7 DETAIL NO. Z0070202				
F.A.S. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	2B-1	LAWRENCE	59	44
CONTRACT NO. 74106				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

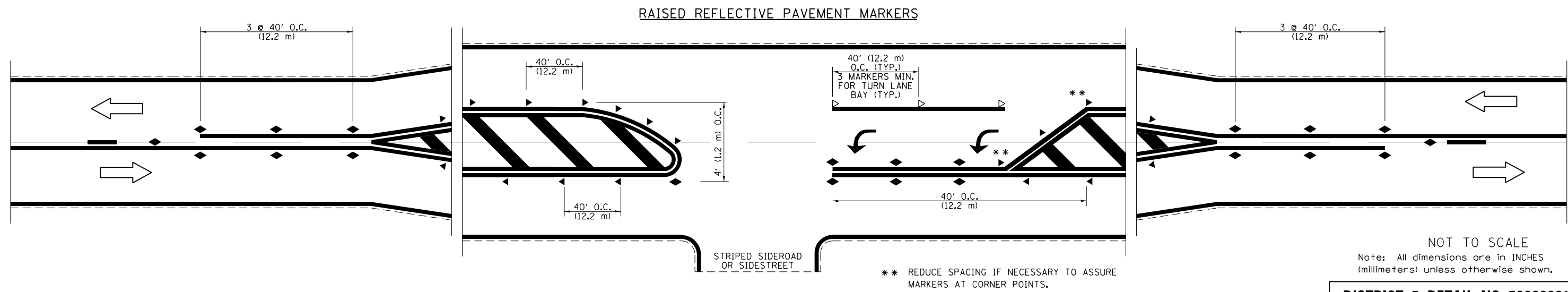
PAVEMENT MARKING LEGEND

- 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
-

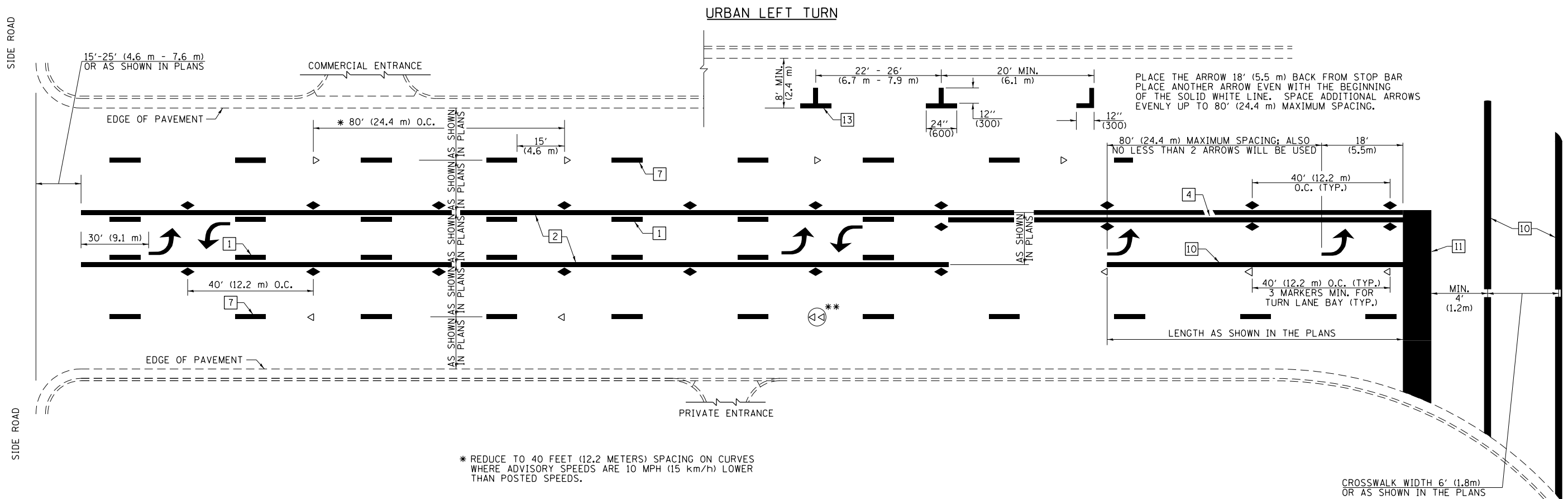


TYPICAL PAVEMENT MARKERS LEGEND

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



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



PLACE THE 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.

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

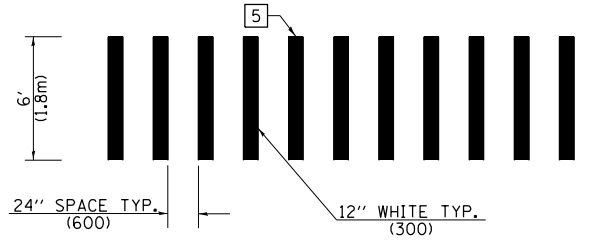
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED
AND SPACED AS SHOWN IN HIGHWAY STANDARD
781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED
HIGHWAYS.

PAVEMENT MARKING LEGEND

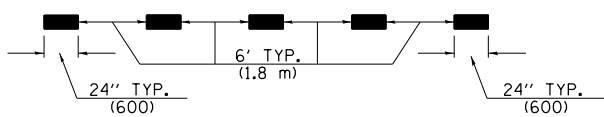
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP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

GENERAL NOTES

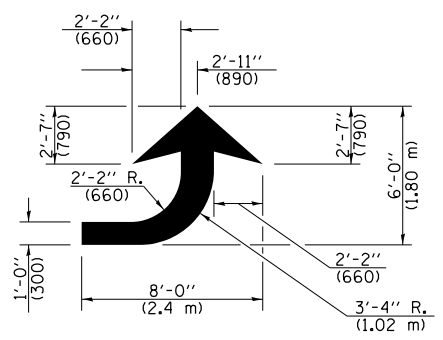
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. 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.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



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

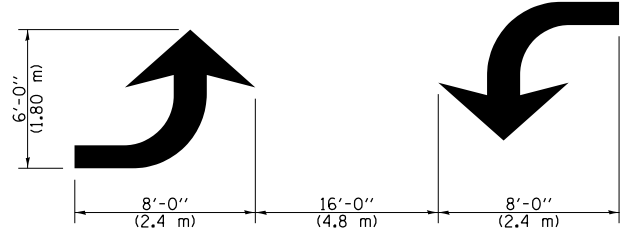


LANE LINE EXTENSIONS



LEFT ARROW

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



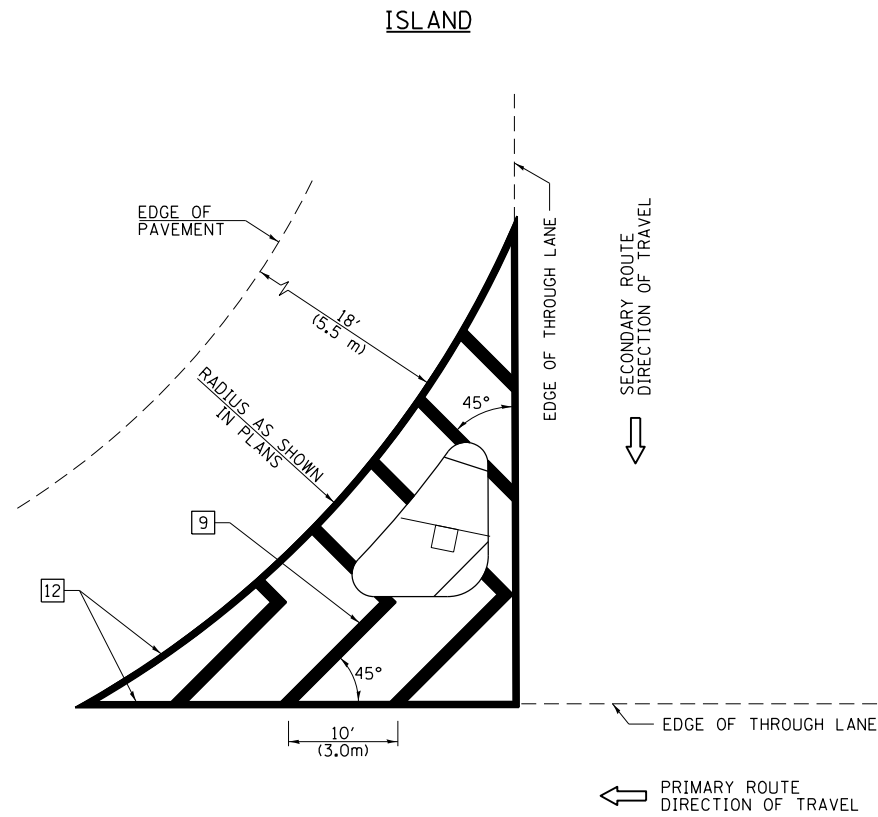
**TYPICAL DOUBLE
TURN ARROWS (WHITE)**

NOT TO SCALE

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

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74106\DRAWING\CADsheets\0774106-shd-details.dwg	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			1806	2B-1	LAWRENCE	59	46
PLOT DATE = 8/2/2016	DATE -	REVISED -	REVISED -			CONTRACT NO. 74106				
						ILLINOIS FED. AID PROJECT				



GENERAL NOTES

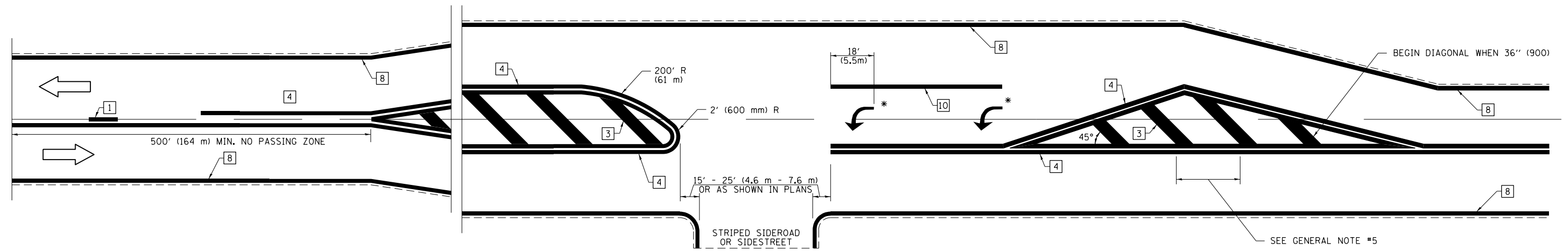
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING 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

- [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
-

RURAL LEFT TURN STRIPING



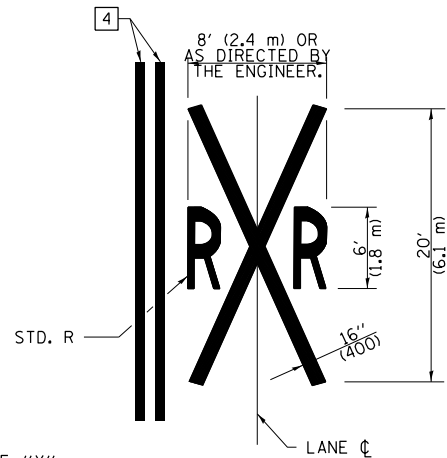
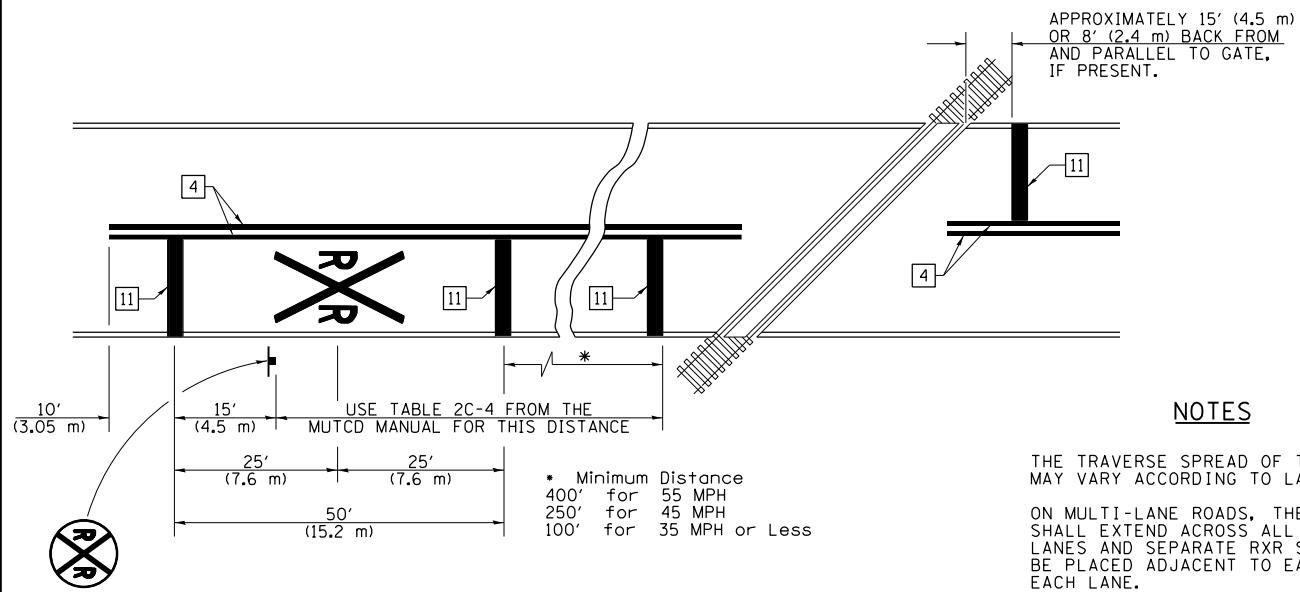
* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

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

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 7\Projects\74106\Drawings\CADsheets\0774106-shd-details.dwg	PLotted SCALE = 100.0000' / 1in.	CHECKED -	REVISED -			1806	2B-1	LAWRENCE	59	47
	PLOT DATE = 8/2/2016	DATE -	REVISED -			CONTRACT NO. 74106				
						ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

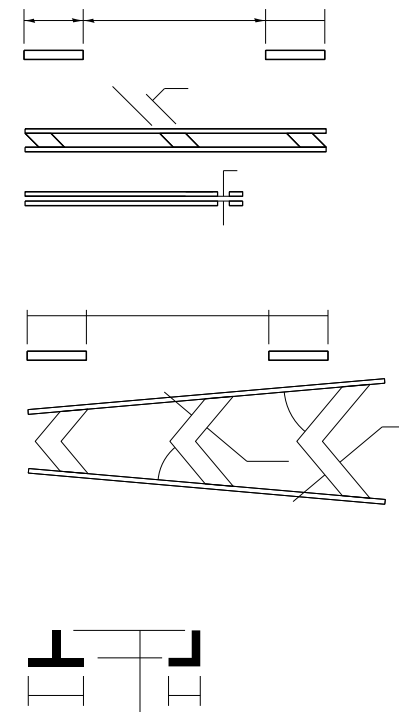


NOTES

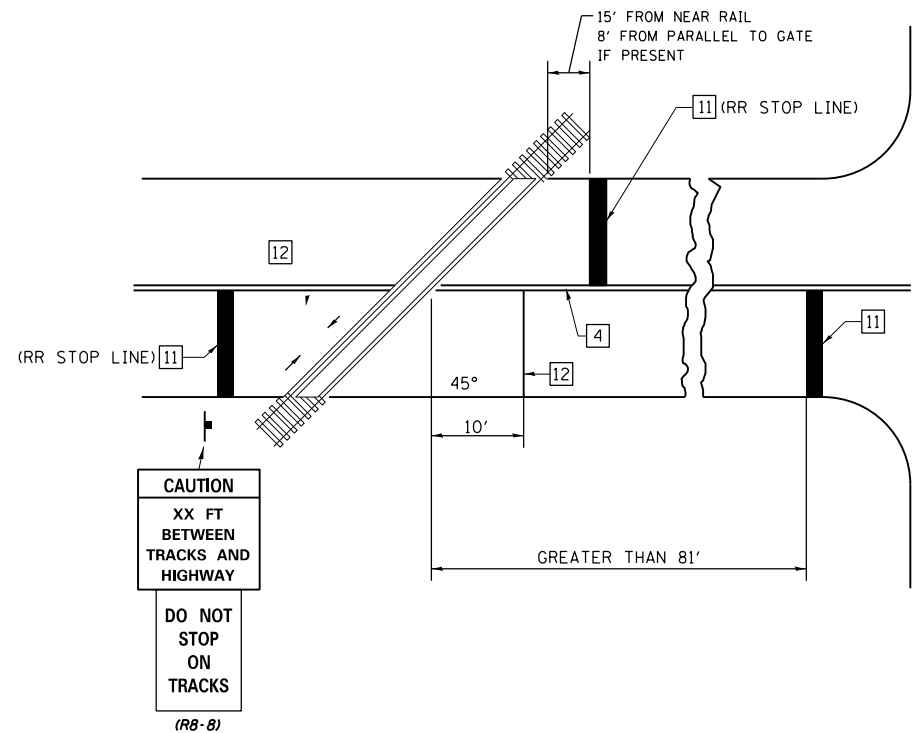
THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

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.

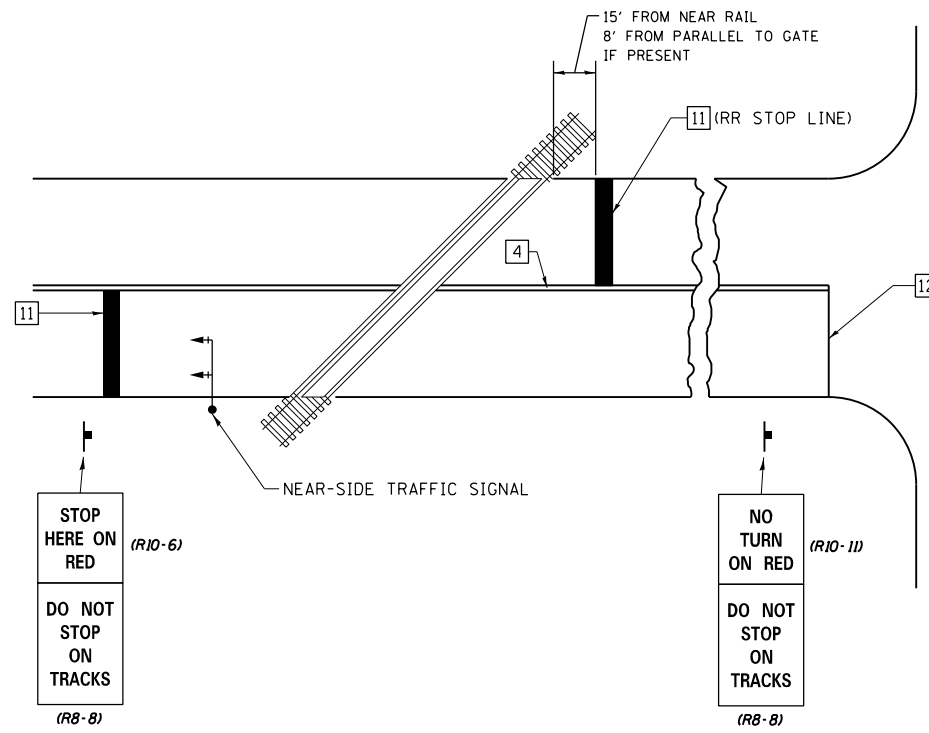
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



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.

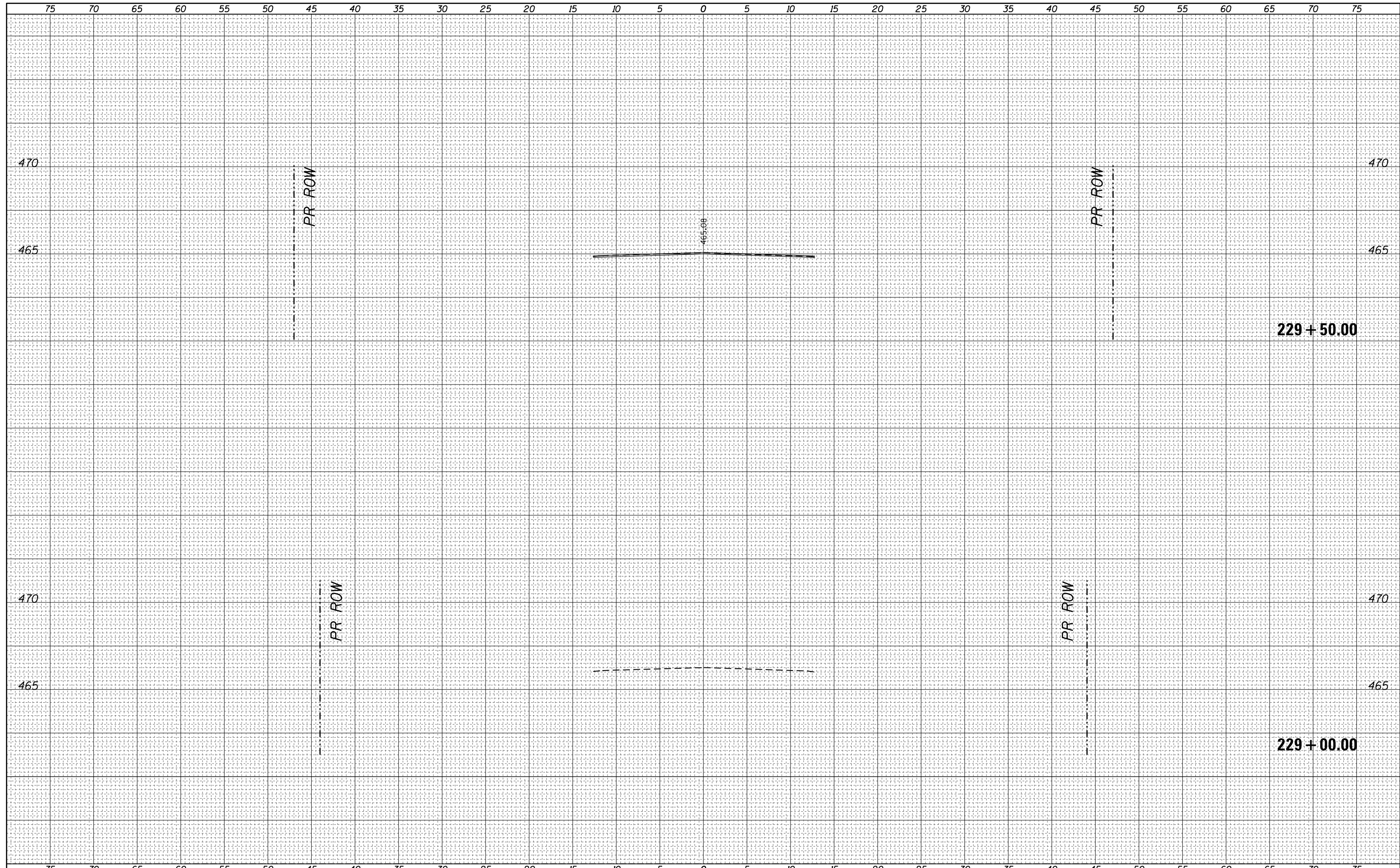
DISTRICT 7 DETAIL NO. 78000001

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			CONTRACT NO. 74106				
PLOT DATE = 8/2/2016						ILLINOIS FED. AID PROJECT				

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

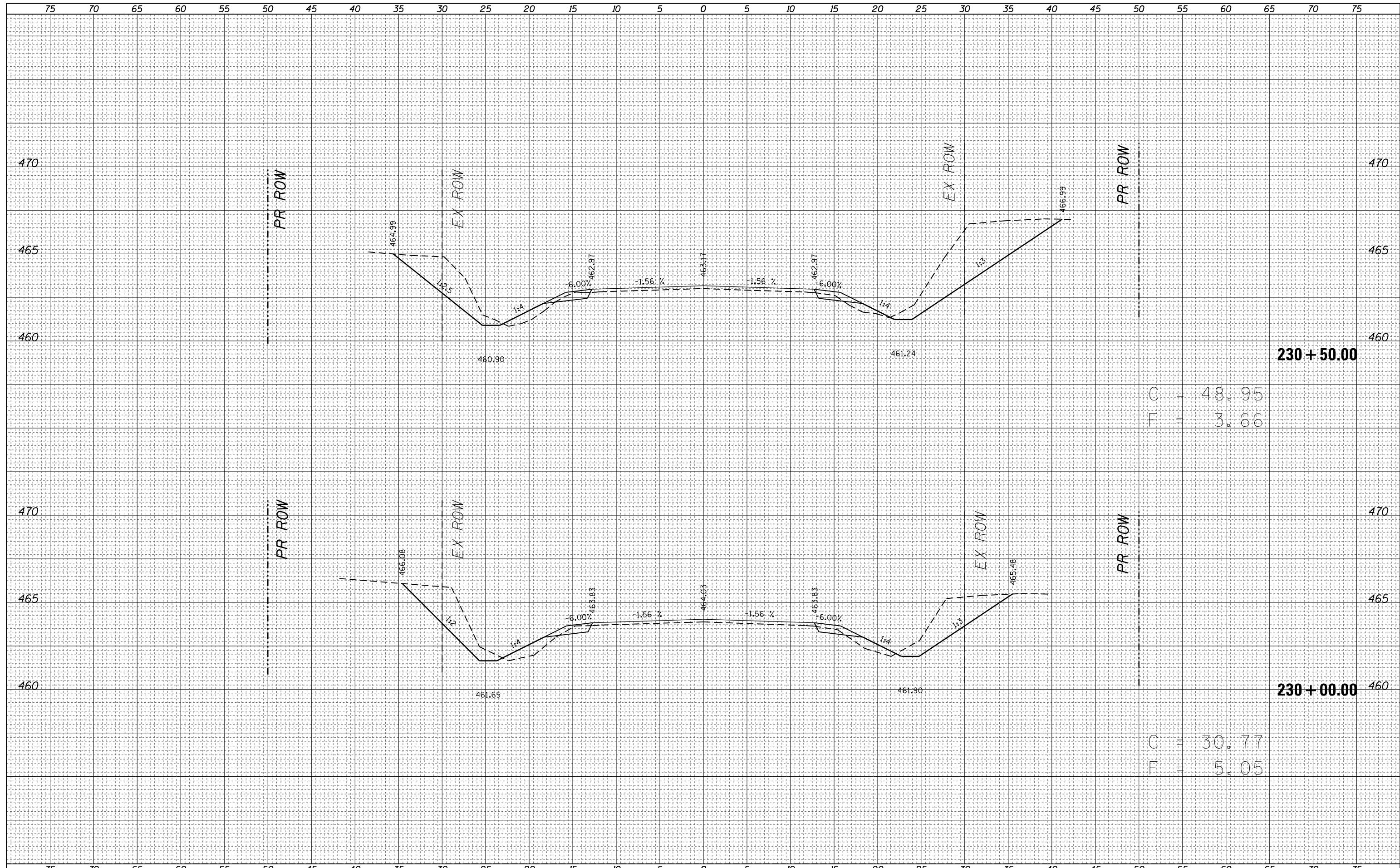
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	

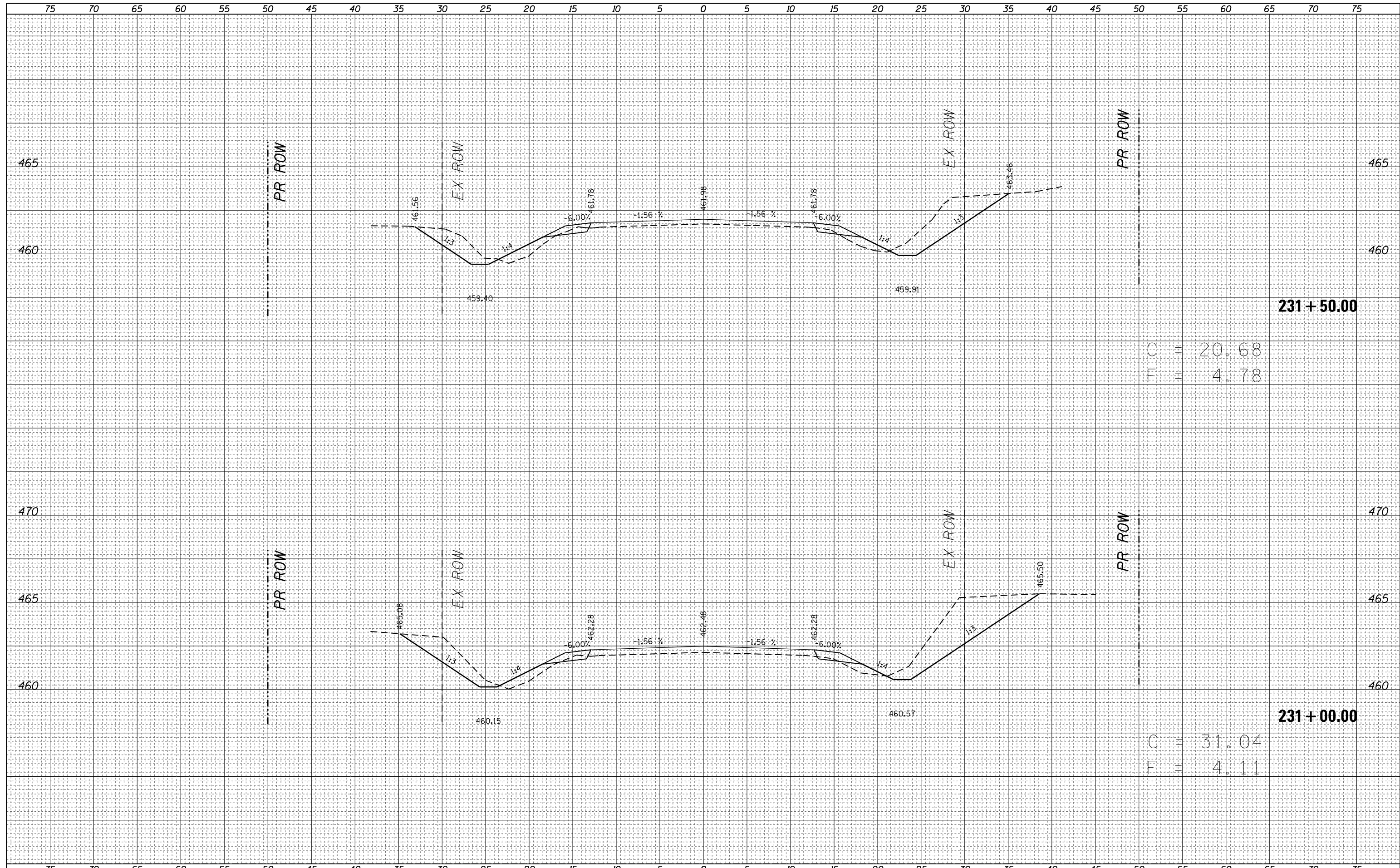


230 + 50.00	
C	48.95
F	3.66

230 + 00.00	
C	30.77
F	5.05

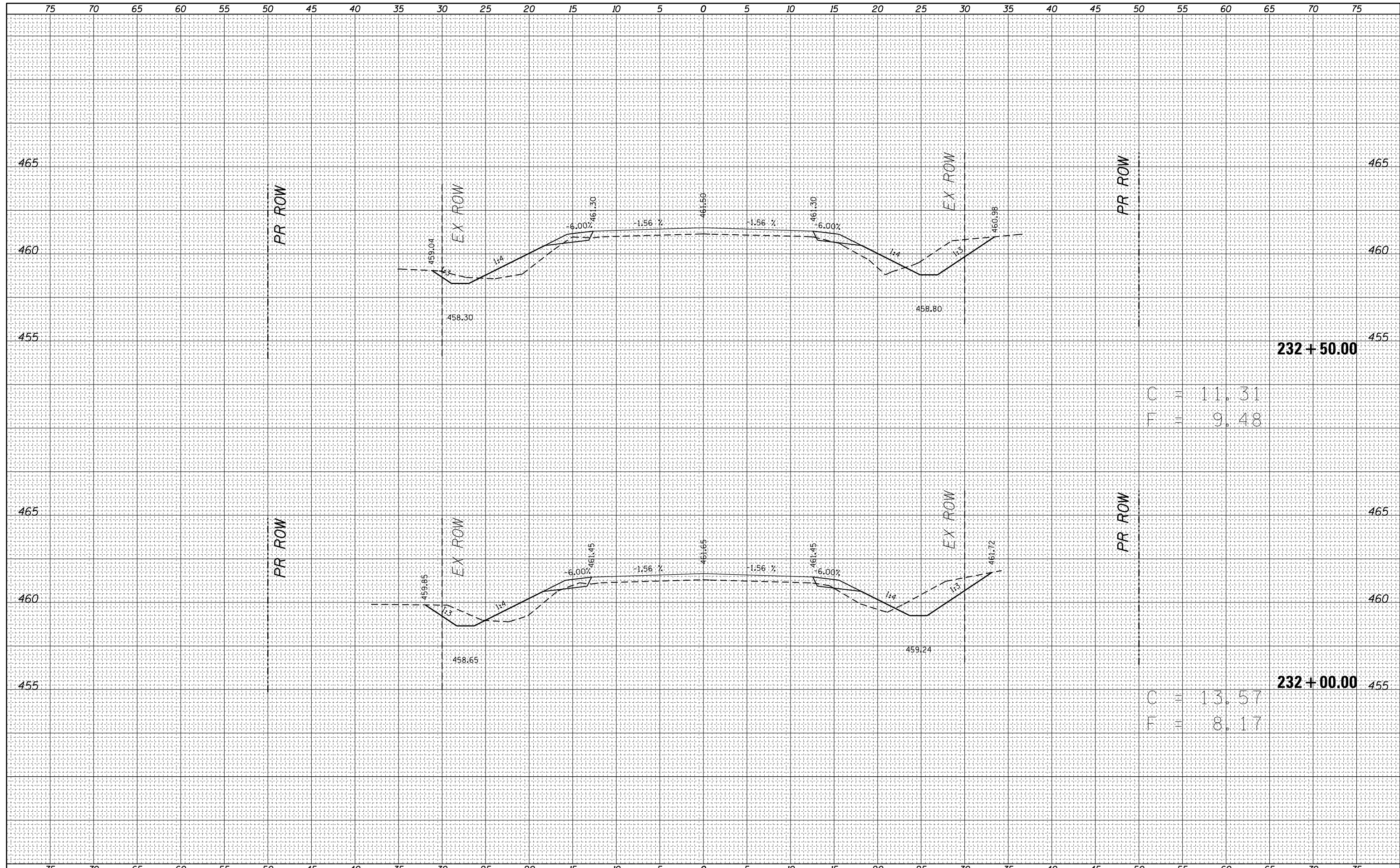
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SURVEYED	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



C = 20.68
F = 4.78

C = 31.04
F = 4.11



FINAL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

FILE NAME =	USER NAME = steffemk	DESIGNED -	REVISIED -
p:\IL084EBIDINTEG Illinois.gov\PWIDOT\Documents\DOT Offices\District 7\Projects\74106\CADD\DRAWINGS\Drawings\74106-ght-ssht.dgn		REVISIED -	REVISIED -
Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -
	PLOT DATE = 8/2/2016	DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINLINE CROSS SECTIONS

SCALE: 5 SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.S. RE. 1806	SECTION 2B-1	COUNTY LAWRENCE	TOTAL SHEETS 59	SHEET NO. 52
			CONTRACT NO. 74106	
ILLINOIS FED. AID PROJECT				

C	11.31
F	9.48

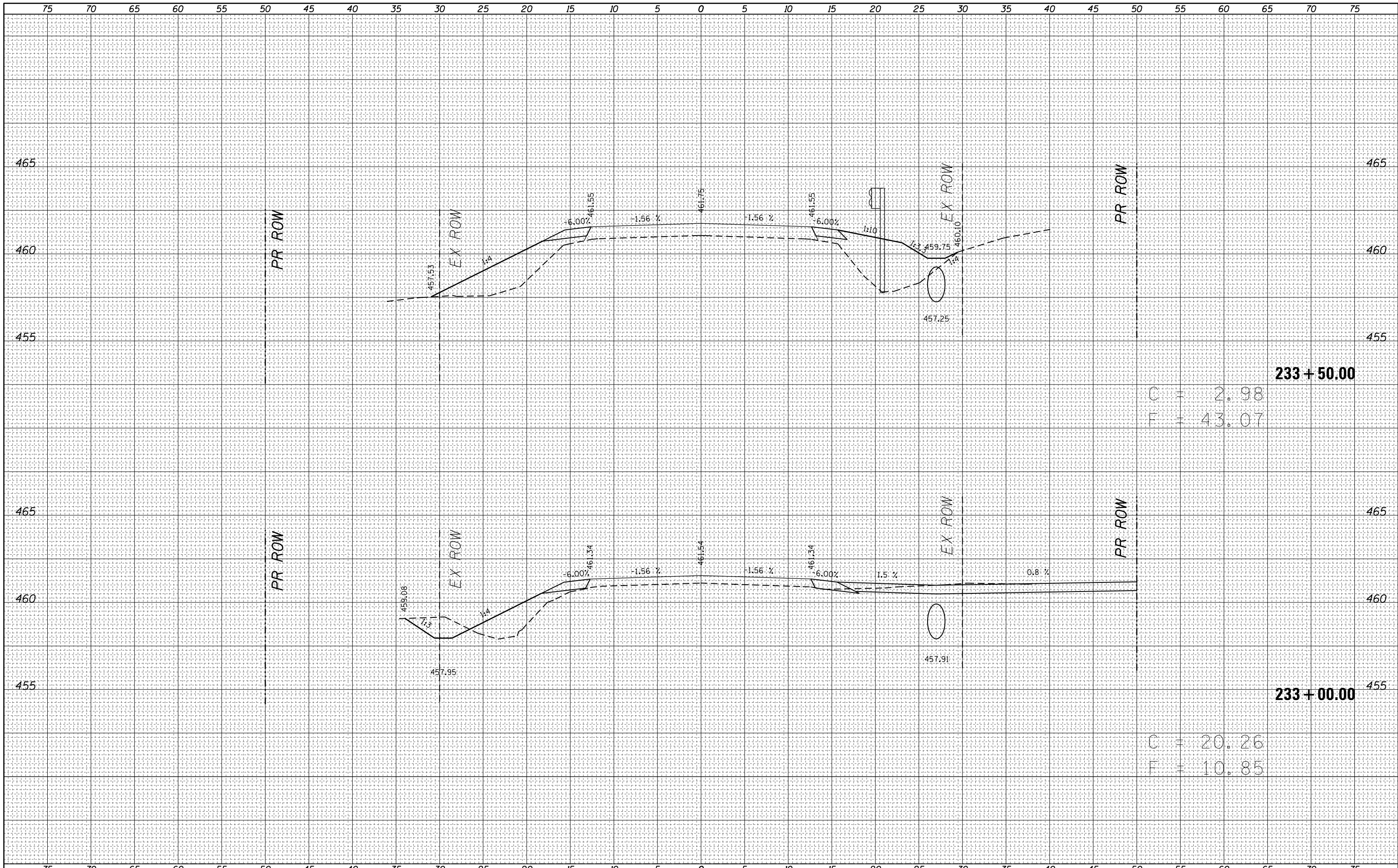
C	13.57
F	8.17

232 + 50.00

232 + 00.00

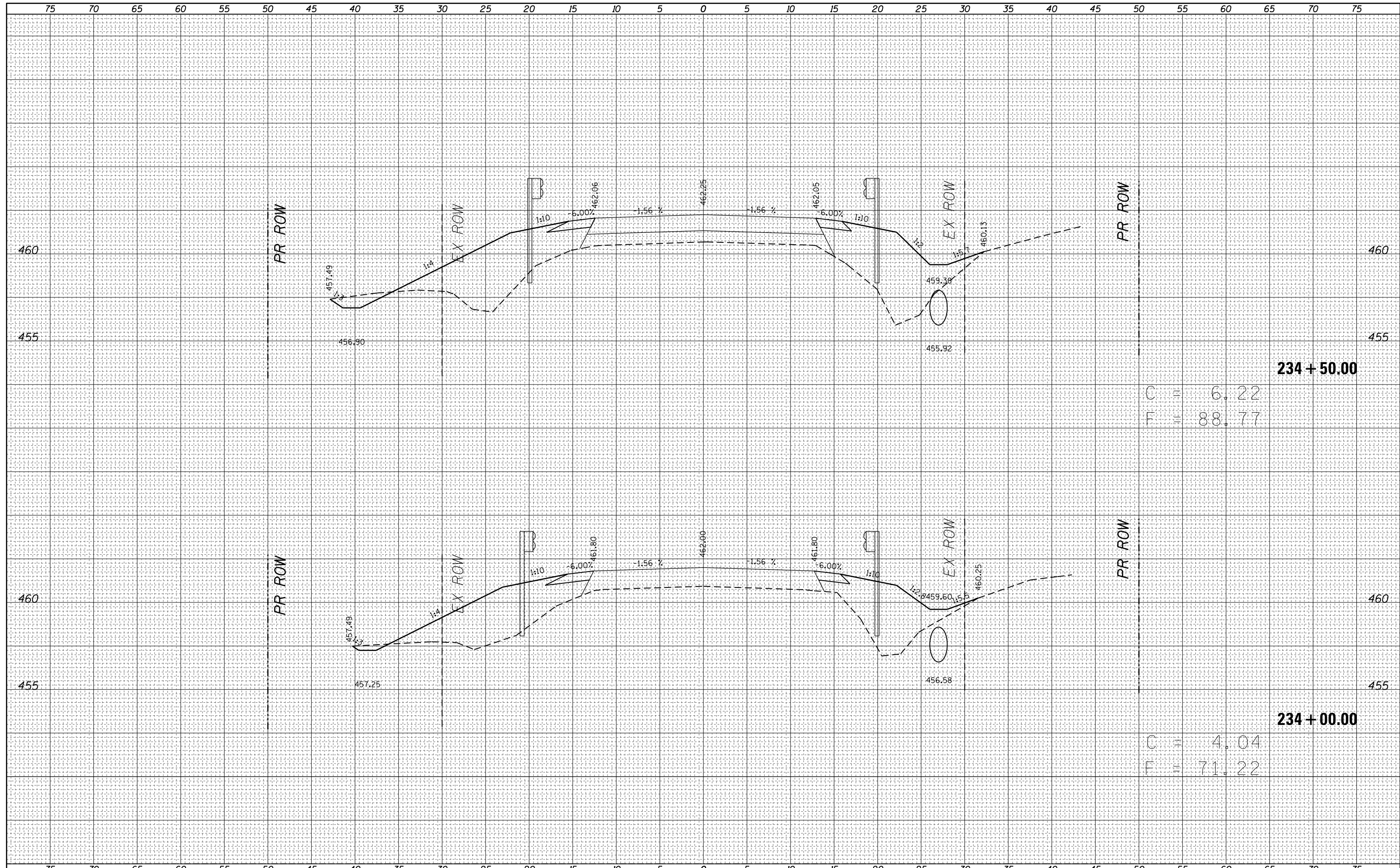
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	CHECKED
AREAS	CHECKED
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BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	CHECKED
AREAS	CHECKED
NO.	



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

BY	DATE
SURVEYED	
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TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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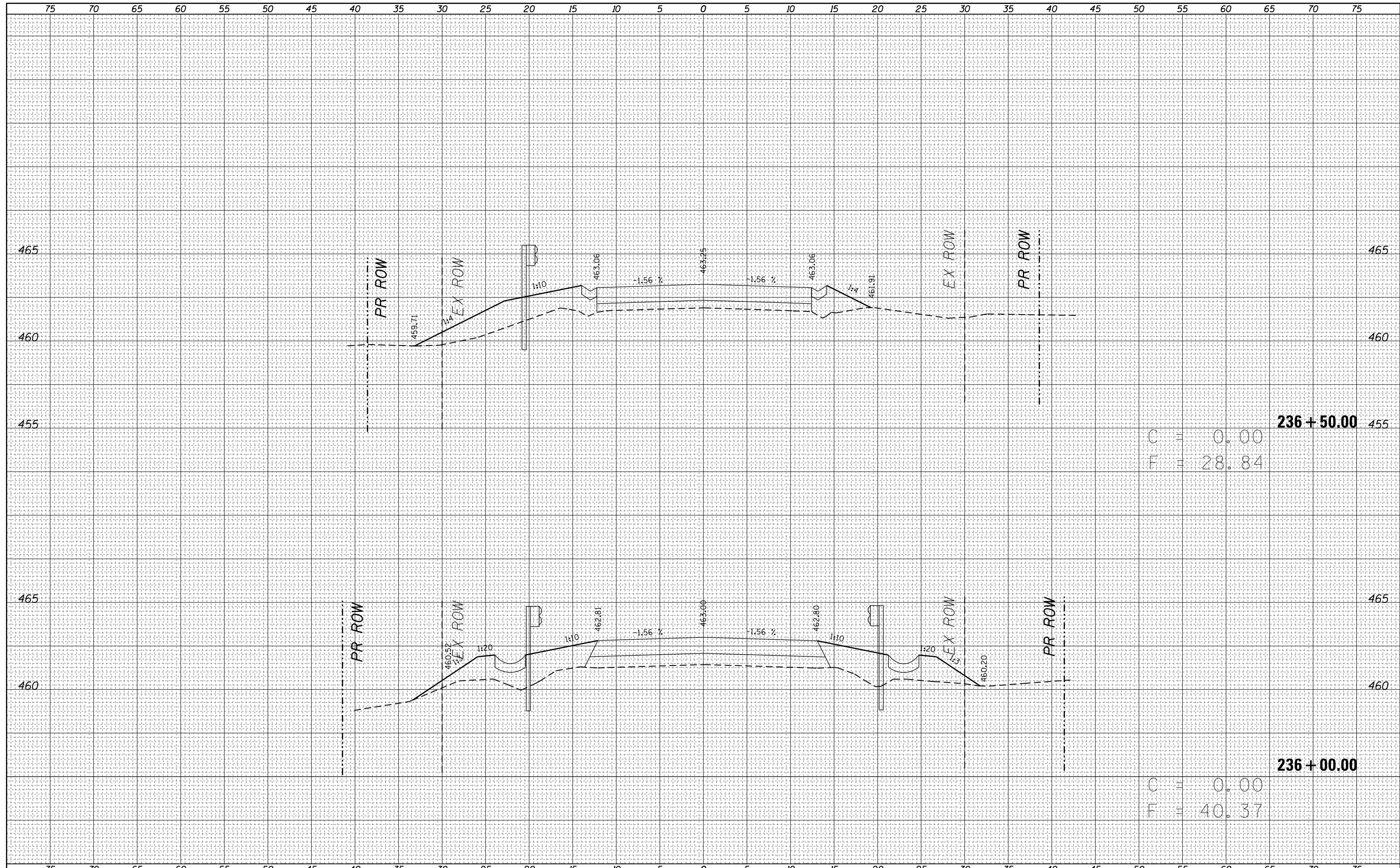


234 + 50.00	
C	6.22
F	88.77

234 + 00.00	
C	4.04
F	71.22

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

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

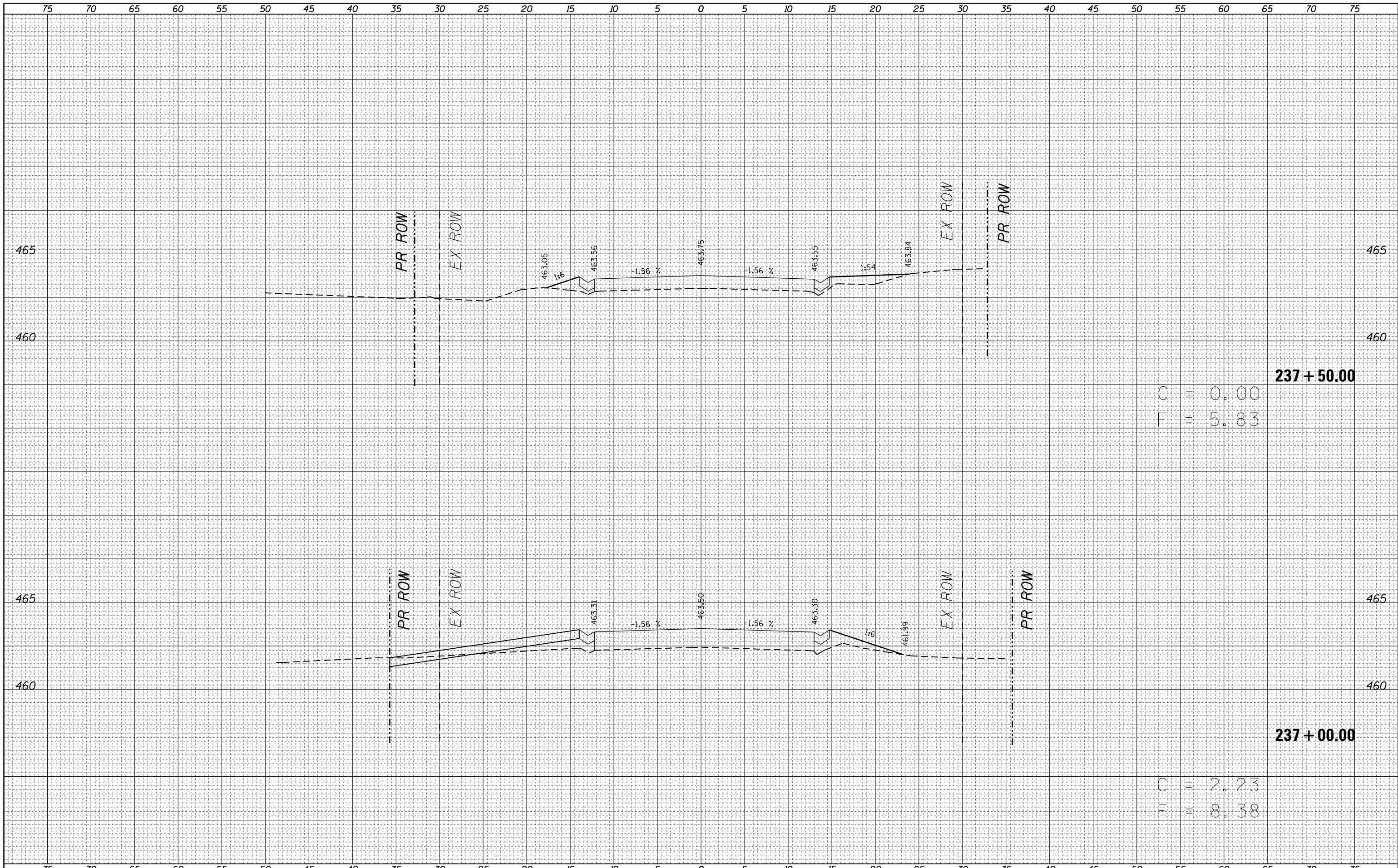


C	0.00
F	28.84

C	0.00
F	40.37

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

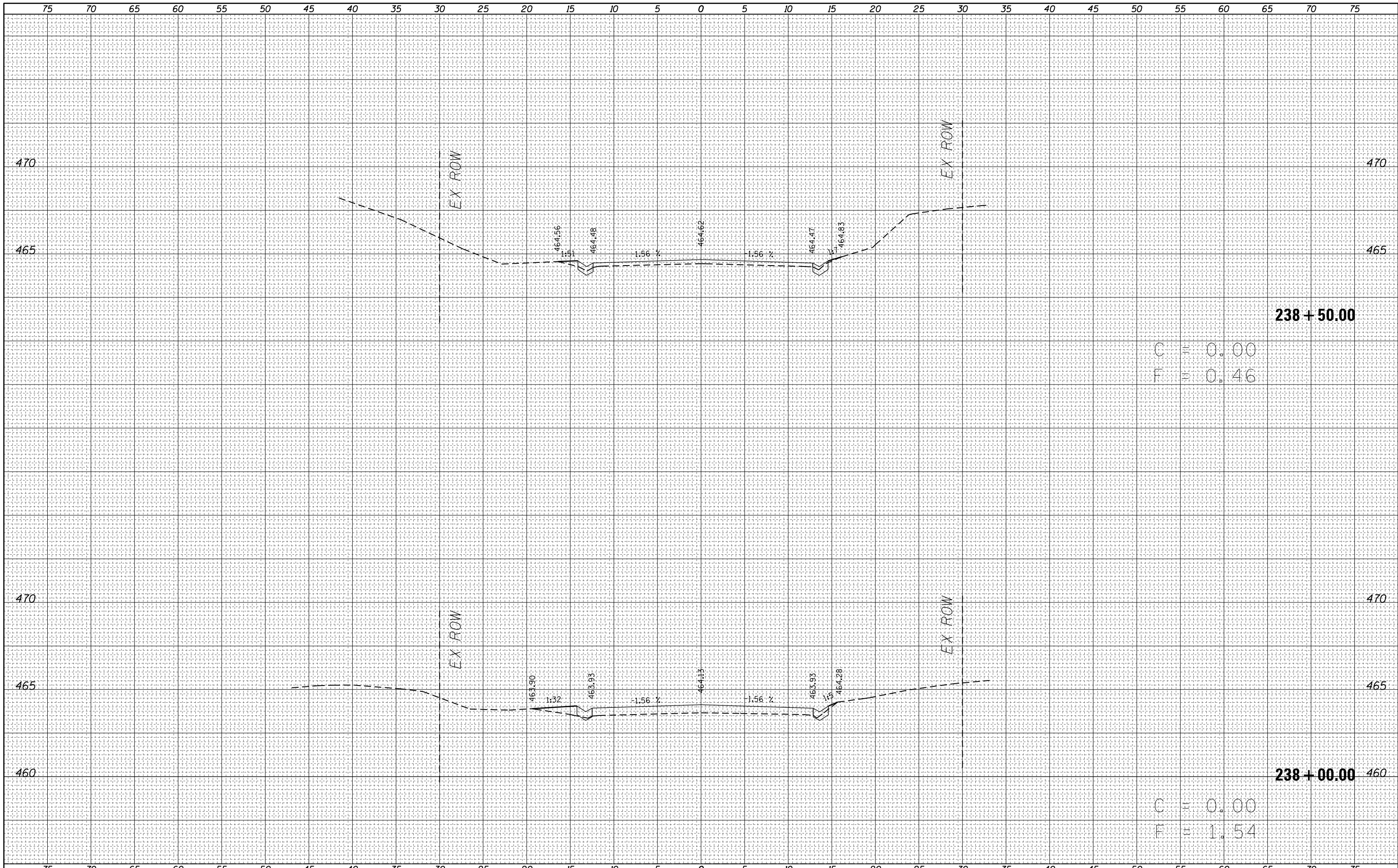


C = 0.00
 F = 5.83
237 + 50.00

C = 2.23
 F = 8.38
237 + 00.00

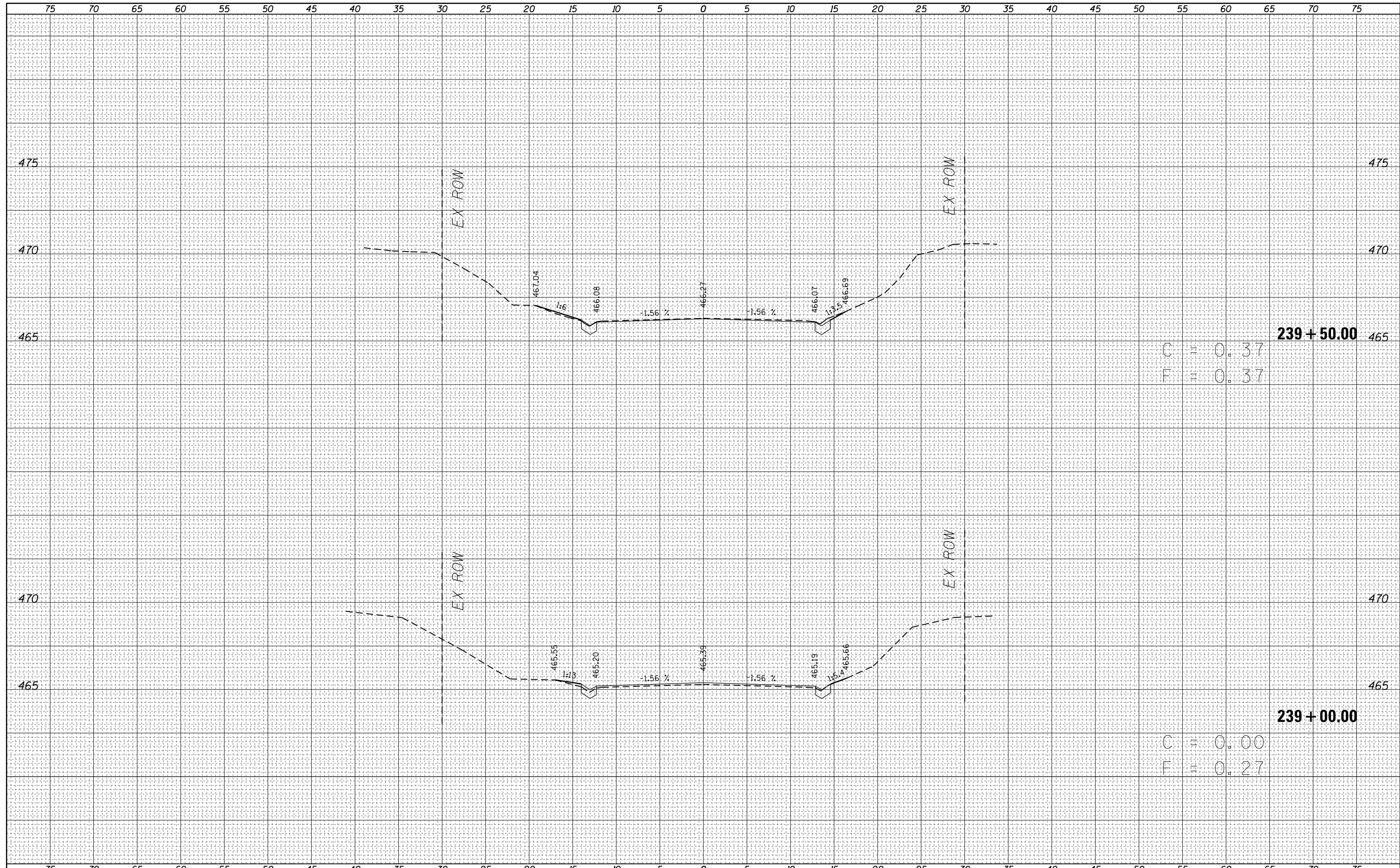
BY	DATE

BY	DATE



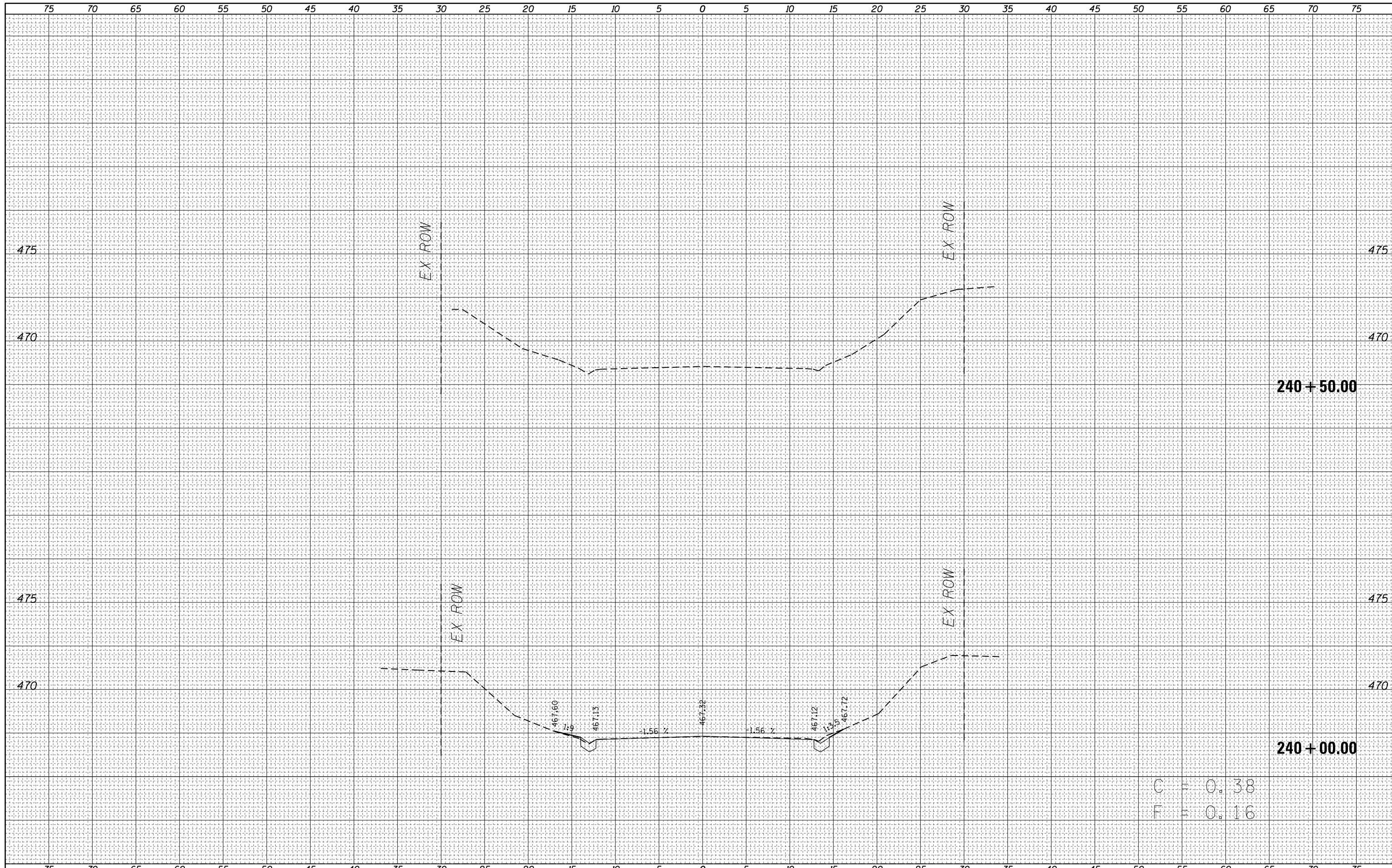
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	CHECKED
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	CHECKED
NO.	



C = 0.38
F = 0.16

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINLINE CROSS SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.Illinois.gov\PIDOT\Documents\DOT Offices\District 7\Projects\74106\CADD\Drawings\Drawings\74106-ght-xssht.dgn	DRAWN	REVISED -	REVISED -		1806	2B-1	LAWRENCE	59	59			
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 74106							
PLOT DATE = 8/2/2016	DATE -	REVISED -	REVISED -		SCALE: 5	SHEET 11 OF 11 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			