F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1		LASALLE	31	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 66835		

P-93-028-06
D-93-072-08

INDEX OF SHEETS

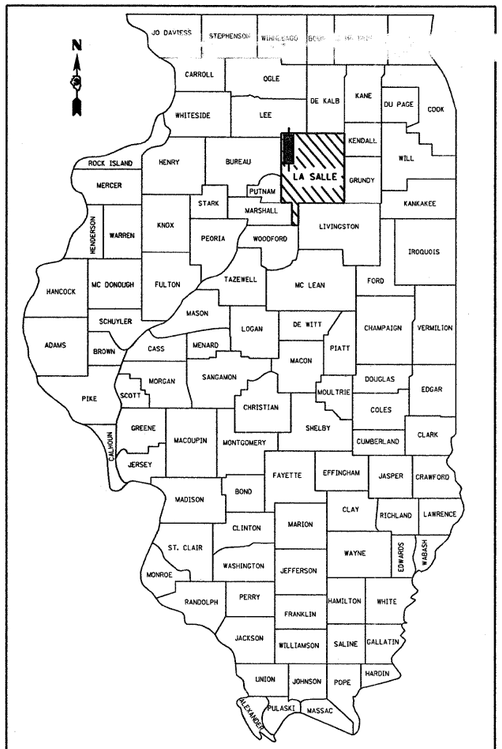
STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630001-08	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-03	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS P 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

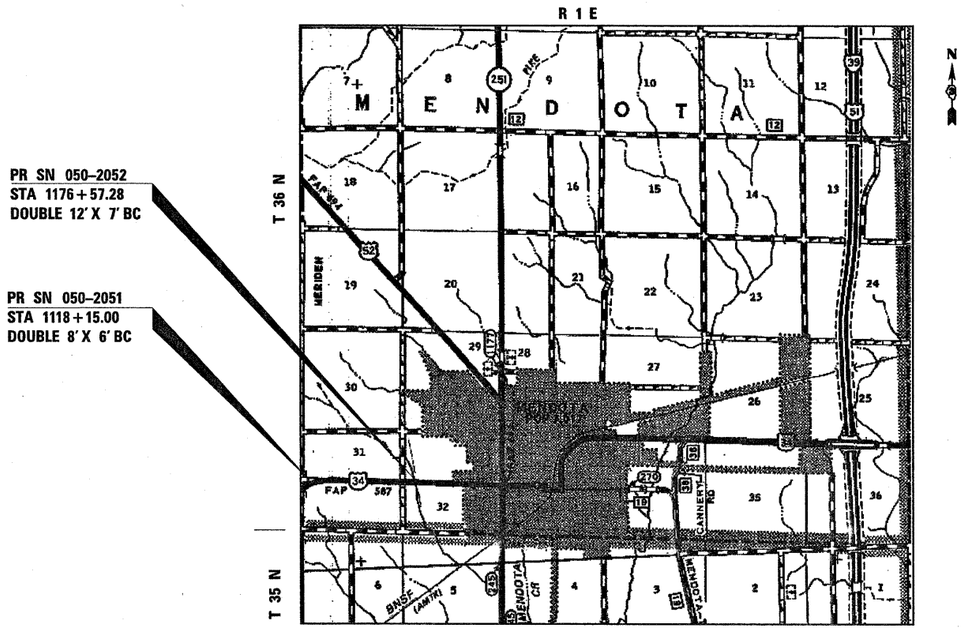
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

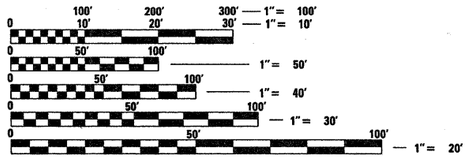
FAP 587 (US ROUTE 34)
SECTION (22)I & I-1
PROJECT F-0587(023)
LASALLE COUNTY
C-93-107-08
BOX CULVERT REPLACEMENTS



LOCATION OF SECTION INDICATED THUS: –



GROSS LENGTH = 6368 FT. = 1.20 MILE
NET LENGTH = 1368 FT. = 0.25 MILE



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: JOE KANNEL
UNIT CHIEF: PATRICK BRABOY

TOWNSHIP: MENDOTA

CONTRACT NO. 66835

FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL
(CLASS 3 DESIGNATED TRUCK ROUTE)

2007 ADT = 2,400
P.V. = 87.5% S.U. = 5.2% M.U. = 7.3%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 10-17 20 08
George Dyson
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 5, 20 08
Eric E. Harm /KD
Interim ENGINEER OF DESIGN AND ENVIRONMENT
December 5, 20 08
Christine M. Reed /KD
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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GENERAL NOTES
(Revised April 2, 2008)

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08 0.375	GAL / SQ YD OR GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: WEST SHORE PIPELINE, NICOR GAS, VERIZON, AND COMED (AN EXCELON COMPANY)

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

	HMA Base Course	HMA Level Binder	HMA Surface	HMA Shoulders
PG Grade	PG64-22	PG64-22	PG64-22	PG64-22
Max % RAP Allowable**	25%	25%	15%	50%
Design Air Voids	4.0% @ N50	4.0% @ N50	4.0% @ N50	2.0% @ N30
Mixture Composition	IL 19.0	IL 9.5	IL 12.5 or IL 9.5	IL 19.0
Friction Aggregate			Mixture C	
Density Test Method	*	Satisfaction of Engineer	Nuclear/ Cores	*

* Material shall be compacted to 93.0-97.4 percent of the maximum theoretical density, except that when placed as first lift on an unimproved subgrade the minimum percent compaction shall be 92.0 percent. The maximum theoretical density shall be determined from the moving average as specified in the QC/QA Specification.

** When more than 20% RAP is used, a softer asphalt binder (PG58-22) may be required as determined by the Engineer.

COMMITMENTS:
1.) ENVIRONMNTAL COORDINATION
2.)COMMITMENT TO CONTACT EMERGENCY SERVICES PRIOR TO DETOUR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: 10-17-08

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

_____
DISTRICT MATERIALS ENGINEER

_____
DISTRICT OPERATIONS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	2
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITY 80% FED. 20% STATE	CONSTR. TYPE CODE ROADWAY I000	SN 050-2051 Y007	SN 050-2052 X028-2A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	52	52		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	42	42		
20200100	EARTH EXCAVATION	CU YD	538	538		
20400800	FURNISHED EXCAVATION	CU YD	974	974		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1810	1810		
• 25000300	SEEDING, CLASS 3	ACRE	1	1		
• 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	78	78		
• 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	78	78		
• 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	78	78		
• 25100630	EROSION CONTROL BLANKET	SQ YD	4164	4164		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	258	258		
28000300	TEMPORARY DITCH CHECKS	EACH	16	16		
28000400	PERIMETER EROSION BARRIER	FOOT	160	160		
28100107	STONE RIPRAP, CLASS A4	SQ YD	195	23	57	115
28200200	FILTER FABRIC	SQ YD	195	23	57	115
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	739	739		
35501326	HOT-MIX ASPHALT BASE COURSE, 10 1/2"	SQ YD	467	467		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	427	427		
40600300	AGGREGATE (PRIME COAT)	TON	11	11		
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	247	247		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	640	640		
40600990	TEMPORARY RAMP	SQ YD	27	27		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	494	494		
44000100	PAVEMENT REMOVAL	SQ YD	467	467		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	52	52		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	1705	1705		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1
50105200	REMOVE EXISTING CULVERTS	EACH	2	2		
50500505	STUD SHEAR CONNECTORS	EACH	74			74
50800105	REINFORCEMENT BARS	POUND	45590		12700	32890
51500100	NAME PLATES	EACH	2		1	1
54003000	CONCRETE BOX CULVERTS	CU YD	255		84	171
• 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1254	1254		
• 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	5		
• 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	3	3		
63200310	GUARDRAIL REMOVAL	FOOT	1492	1492		
67100100	MOBILIZATION	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		

• SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 80% FED. 20% STATE.	CONSTR TYPE CODE ROADWAY I000	SN 050-2051 Y007	SN 050-2052 X028-2A
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	217	217		
70300220	TEMPORARY PAVEMENT MARKING- LINE 4"	FOOT	2736	2736		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	542	542		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	73	73		
• 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2736	2736		
• 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	542	542		
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	35	35		
• 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	8		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	35	35		
X5121800	PERMANENT STEEL SHEET PILING	SQ FT	772			772
X7011005	TRAFFIC CONTROL AND PROTECTION OFR TEMPORARY DETOUR	L SUM	1	1		

• SPECIALTY ITEMS

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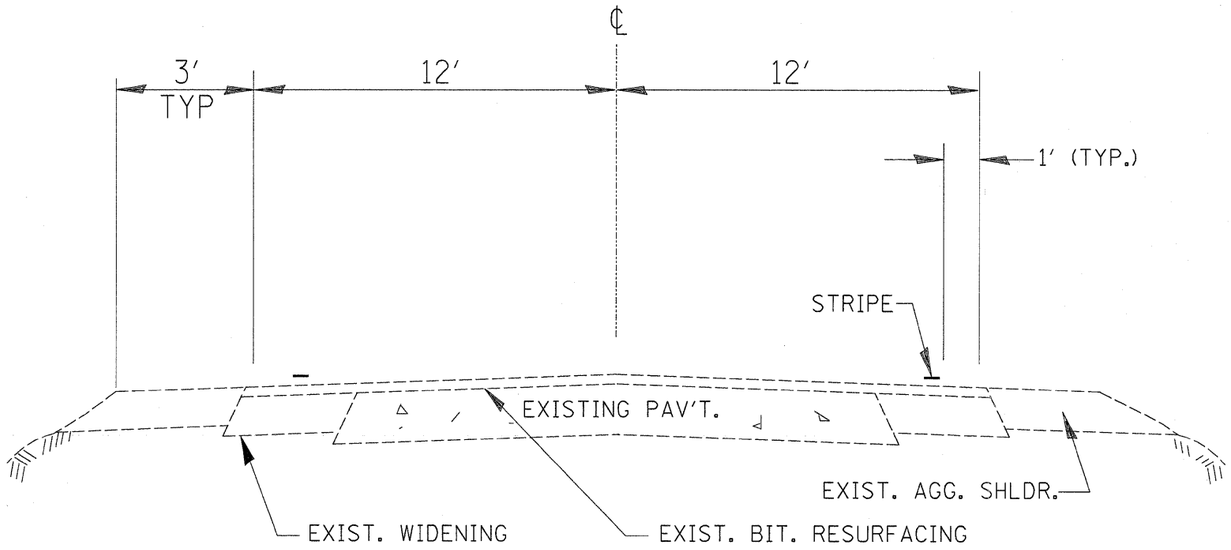
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	3
		CONTRACT NO. 66836		



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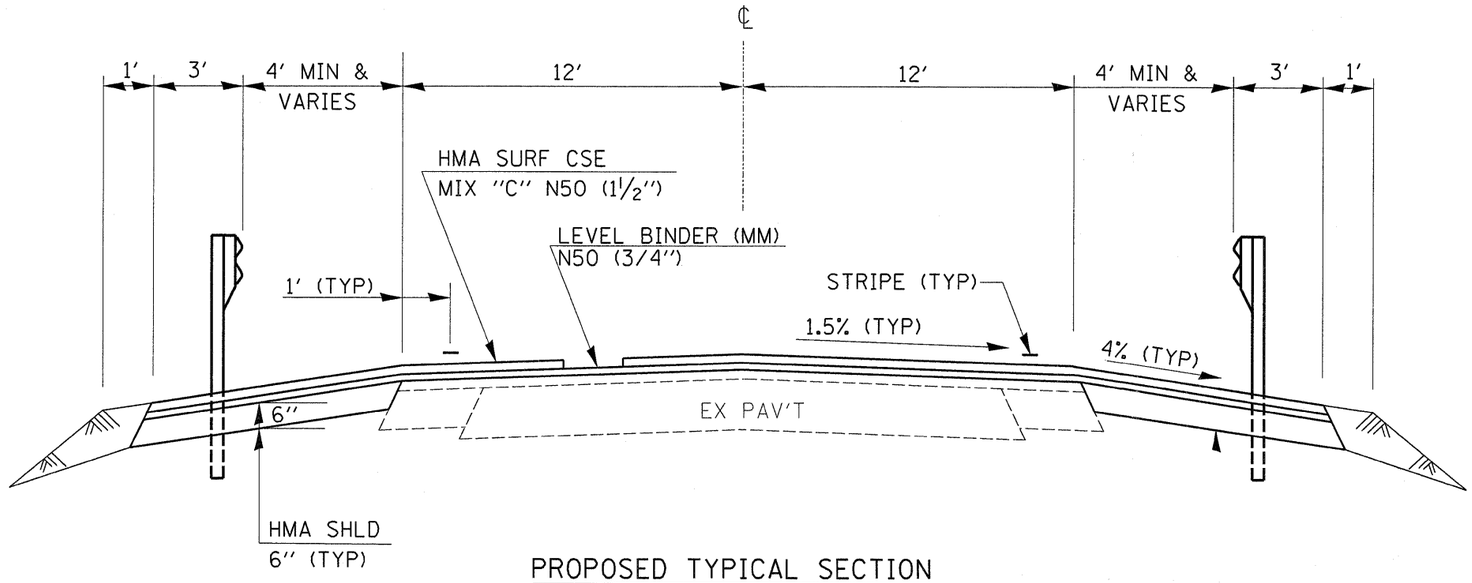

PROPOSED TYPICAL SECTION

STA 1116+94 TO STA 1121+30
STA 1172+60 TO STA 1179+30

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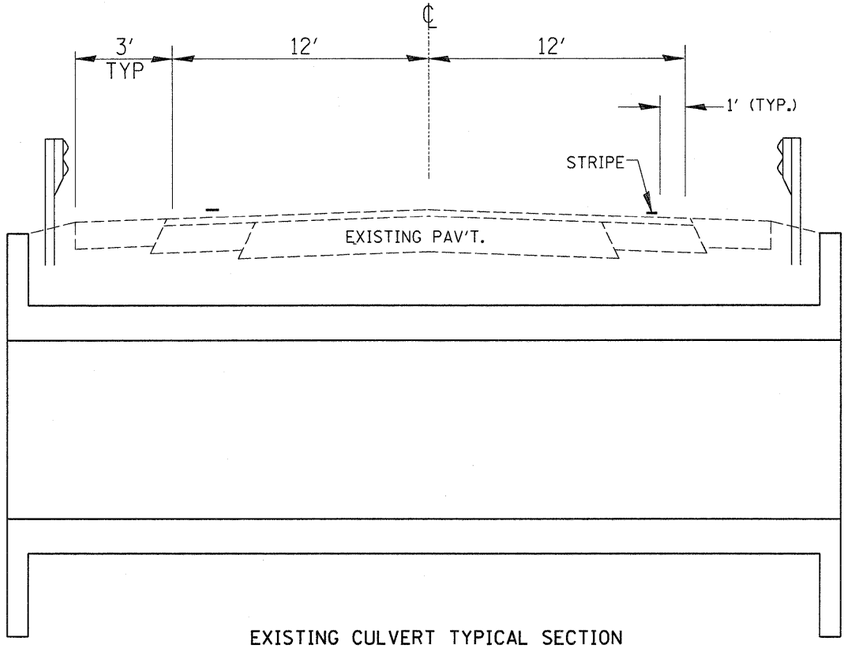
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY TYPICAL SECTION

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	4
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



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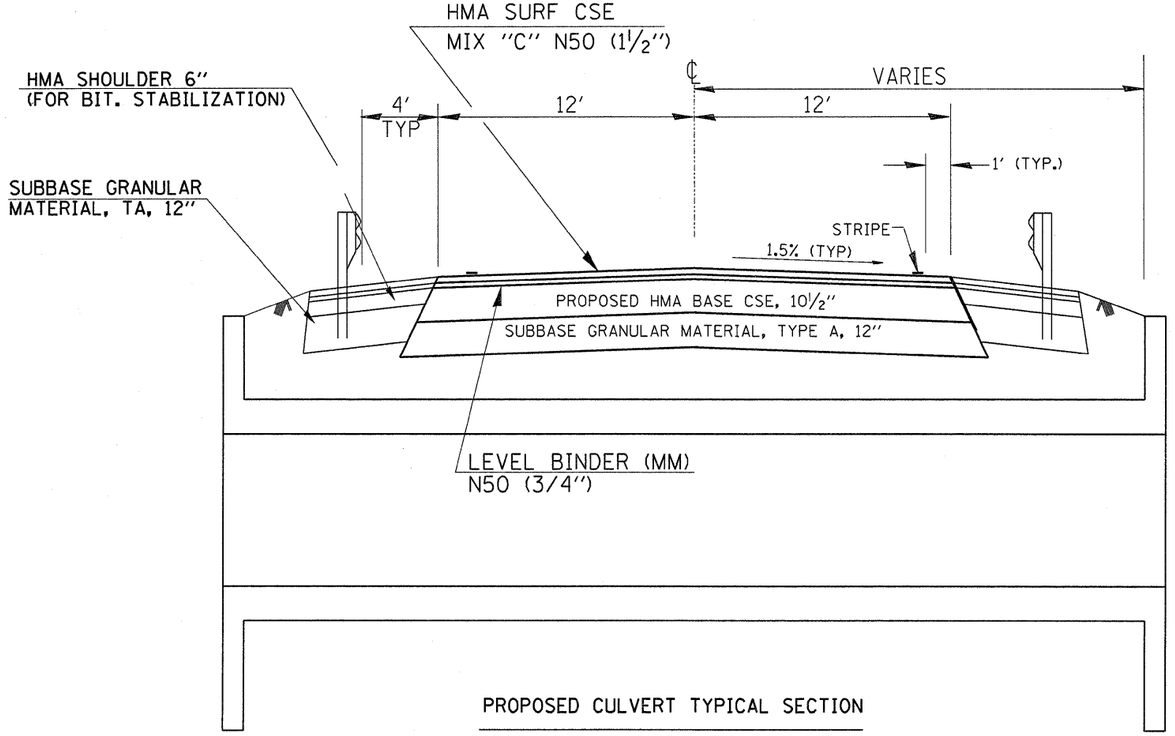

PROPOSED CULVERT TYPICAL SECTION

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 050–2051 & SN 050–2052 TYPICAL SECTIONS

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	5
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

GUARDRAIL

LOCATION			SIDE	TBT T1 (SP) TANG.	TBT T1 (SP) FLARED	SPBGR, TYPE A	TERMINAL MARKER, DIRECT APPLIED
STATION			FT	EACH	EACH	FOOT	EACH
SN 050-2051							
1116+31.5	TO	1116+81.5	RT	1.0			1.0
1116+81.5	TO	1119+23	RT			242.0	
1119+23	TO	1119+73	RT	1.0			1.0
1116+94.5	TO	1117+44.5	LT	1.0			1.0
1117+44.5	TO	1120+36	LT			292.0	
1120+36	TO	1120+86	LT	1.0			1.0
SN 050-2052							
1173+92	TO	1174+42	RT		1.0		1.0
1174+42	TO	1178+03	RT			360.0	
1178+03	TO	1178+53	RT	1.0			1.0
1174+62	TO	1175+12	LT		1.0		1.0
1175+12	TO	1178+72	LT			360.0	
1178+72	TO	1179+22	LT		1.0		1.0
TOTALS				5.0	3.0	1254.0	8.0

GUARDRAIL REMOVAL

LOCATION		GR REM FEET
	STATION	
	EX SN 050-2544	
EB	1116+15 TO 1119+67	352.0
WB	1117+56 TO 1121+94	438.0
	EX SN 050-2545	
EB	1175+13 TO 1178+06	293.0
WB	1174+72 TO 1178+81	409.0
		1492.0

BITUMINOUS STABILIZATION

LOCATION		AREA	HMA SHLD 6"
	STATION	SQ FT	SQ YD
	PR SN 050-2051		
EB	1116+00 TO 1122+00	3626	403
WB	1116+73 TO 1122+00	3564	396
	PR SN 050-2052		
EB	1172+00 TO 1180+00	3800	422
WB	1172+00 TO 1180+00	4354	484
TOTALS			1705

EARTH EXCAVATION SCHEDULE

LOCATION	EARTH EXCAVATION CUT (A)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (B)	EMBANKMENT FILL (C)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (D)
STATION	CU YD A	CU YD B	CU YD C	CU YD D
1116+00 TO 1122+00(LT&RT)	116	29	457	-428.00
1172+00 TO 1179+00(LT&RT)	422	105.5	651	-545.50
TOTALS	538	134.5	1108	-973.5

NOTE: SHRINKAGE FACTOR IS (0.25)
- COLUMN A : PAID FOR AS EARTH EXCAVATION
- COLUMN B : COLUMN A • SHRINKAGE FACTOR (0.25)
- COLUMN C : FROM CROSS SECTIONS
- COLUMN D : PAID FOR AS FURNISHED EXCAVATION, IF SHORTAGE

TOP 4" OF FURNISHED EXCAVATION SHALL BE VEGETATIVE SUSTAINING SOIL- INCLUDED IN THE COST OF FURINISHED EXCAVATION

REMOVAL ITEMS

LOCATION	LENGTH FT	HMA SURF REMOVAL BUTT JOINT SQ YD	PIPE CULVERT TO BE REMOVED EACH
1116+32 TO 1116+92	60	160.0	
1121+40 TO 1122+00	60	160.0	
1171+40 TO 1172+00	60	160.0	
1179+40 TO 1180+00	60	160.0	
1116+50(RT)	57		1.0
1117+50 (RT)	64		1.0
TOTAL		640	2

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)1 & I-1	LASALLE	31	6
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

MAINLINE							
LOCATION	AREA	HMA SURF CSE MIX "C" N50 (1 1/2")	HMA LEVEL BINDER N50 (MM) 3/4"	BIT MATL'S PR CT	AGG PR CT	AGG SHLD TY B	TEMP RAMP
STATION	SQ YD	TON	TON	GAL	TON	TON	SQ YD
STA 1116+32 TO 1122+00	2301	193.3	96.6	184.1	4.6	17.5	13
STA 1172+00 TO 1180+00	3038	255.2	127.6	243.0	6.1	34.7	13
TOTALS		493.3	246.7	427.1	10.7	52	26.7

PGE						
LOCATION	LENGTH	AREA	PAV'T REM	HOT MIX ASPHALT BASE CSE 10 1/2""	SUBBASE GRANULAR MATERIAL TYPE A, 12"	POUROUS GRANULAR EMBANKMENT
STATION	FT	SQ YD	SQ YD	SQ YD	SQ YD	CU YD
STA 1117+83 TO 1118+48	65	173	173.3	173.3	275.0	792.0
STA 1176+02 TO 1177+12	110	293	293.3	293.3	464.0	1018.0
TOTALS			466.7	466.6	739.0	1810.0

PAVEMENT MARKINGS									
LOCATION	LENGTH	TEMP PVMT MARKING 4" WHITE	TEMP PVMT MARKING 6" YELLOW	PAINT PVMT MARKING 4" WHITE	PAINT PVMT MARKING 6" YELLOW	RAISED REF PAVMT MARKER	RAISED REF PVMT MARKER REM	SHORT TERM PVMT MARKING	WORK ZONE PVMT REM
STATION	FEET	FOOT	FOOT	FOOT	FOOT	EACH	EACH	FOOT	SQ FT
1116+32 to 1122+00	568	1136	142	1136	142	15	15	57	19.0
1172+00 To 1180+00	800	1600	400	1600	400	20	20	160	54.0
TOTAL		2736	542	2736	542	35	35	217	73.0

SEEDING SCHEDULE								
LOCATION	SEEDING CLASS III	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	TEMP EROSION CONTROL SEEDING	TEMP DITCH CHECKS
STATION	ACRE	POUND	POUND	POUND	SQ YD	FOOT	POUND	EACH
1116+00 TO 1122+00 (LT)	0.16	14.4	14.4	14.4	775.00	40.00	48.0	4.0
1116+00 TO 1122+00 (RT)	0.19	17.1	17.1	17.1	920.00	40.00	57.0	4.0
1172+00 TO 1180+00 (LT)	0.26	23.4	23.4	23.4	1259.00	40.00	78.0	4.0
1172+00 TO 1180+00 (LT)	0.25	22.5	22.5	22.5	1210.00	40.00	75.0	4.0
TOTAL	0.86	77.4	77.4	77.4	4164.00	160.00	258.0	16.0

PLACE TWO DITCH CHECKS IN EACH QUADRANT
THREE APPLICATIONS PROVIDED FOR TEMPORARY EROSION CONTROL SEEDING
PLACE PERIMETER EROISON BARRIER ACROSS DITCH, PERPENDICULAR TO CL, WITHIN 40' OF BOX CULVERT

TREE REMOVAL			
LOCATION	SIDE LT/RT	TREE REMOVAL 6-15 UNITS DIA. UNIT	TREE REMOVAL OVER 15 UNITS DIA. UNIT
1118+00 TO 1118+30	LT	36.0	18.0
1174+80	LT		24.0
1177+75	RT	18.0	
TOTAL		54.0	42.0

RIPRAP, CLASS A4		
LOCATION	RIPRAP CL A4 SQ YD	FILTER FABRIC SQ YD
1118+15 (LT)	23.0	23.0
TOTAL	23.0	23.0

THIS QUANTITY IS FOR FILLING IN BETWEEN THE EXISTING ROW AND THE VERTICAL SPILLWAY. PLEASE SEE CULVERT PLANS FOR ALL OTHER QUANTITIES

DO NOT DISTURB THE EXISTING VERTICAL SHEET PILING SPILLWAY. THE OTHER HORIZONTAL METAL SHEETS SHALL BE REMOVED AND INCLUDED IN THE COST OF RIPRAP, CLA4

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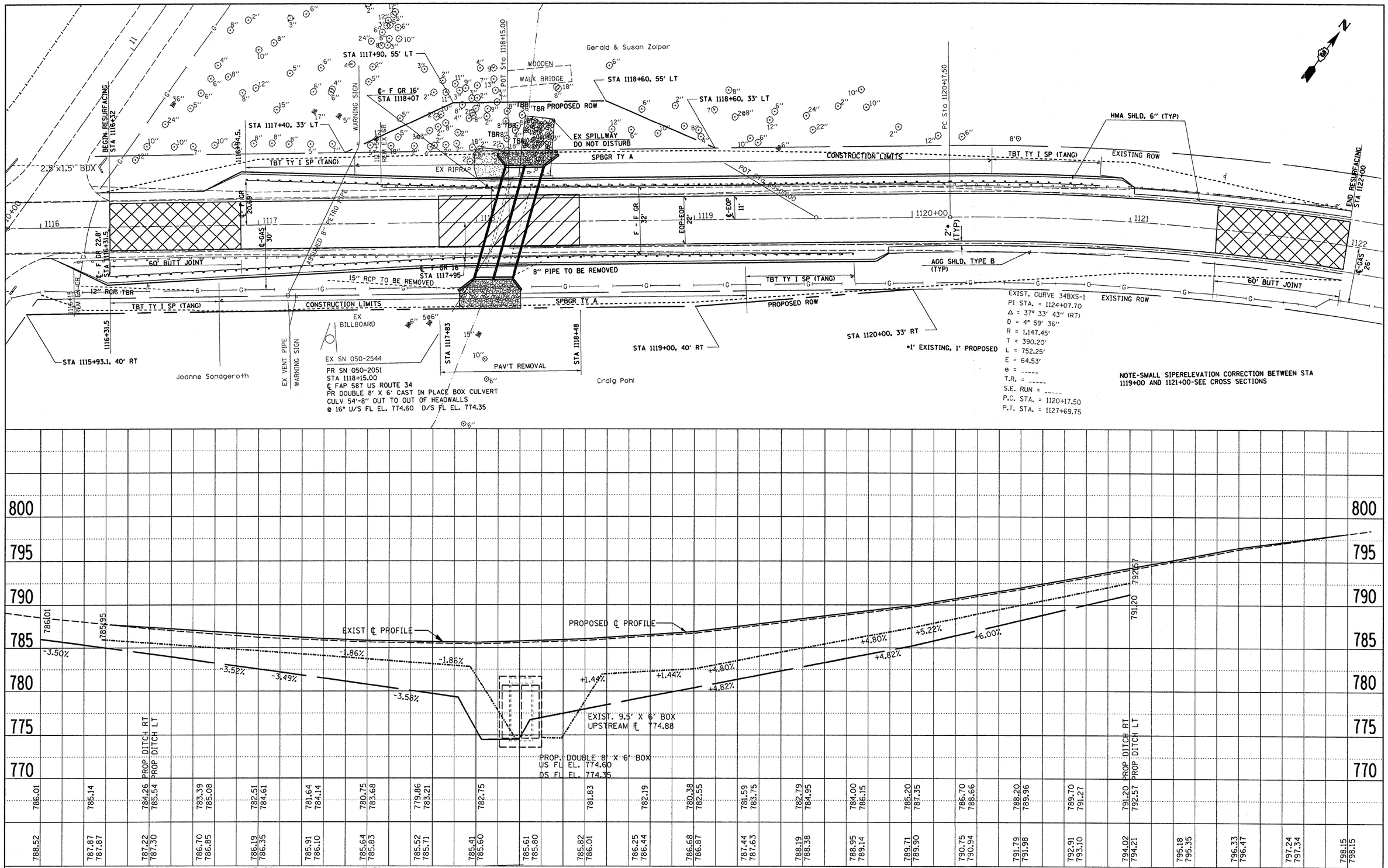
REVISED - ___ | REVISED - ___ | REVISED - ___ | REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	7
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



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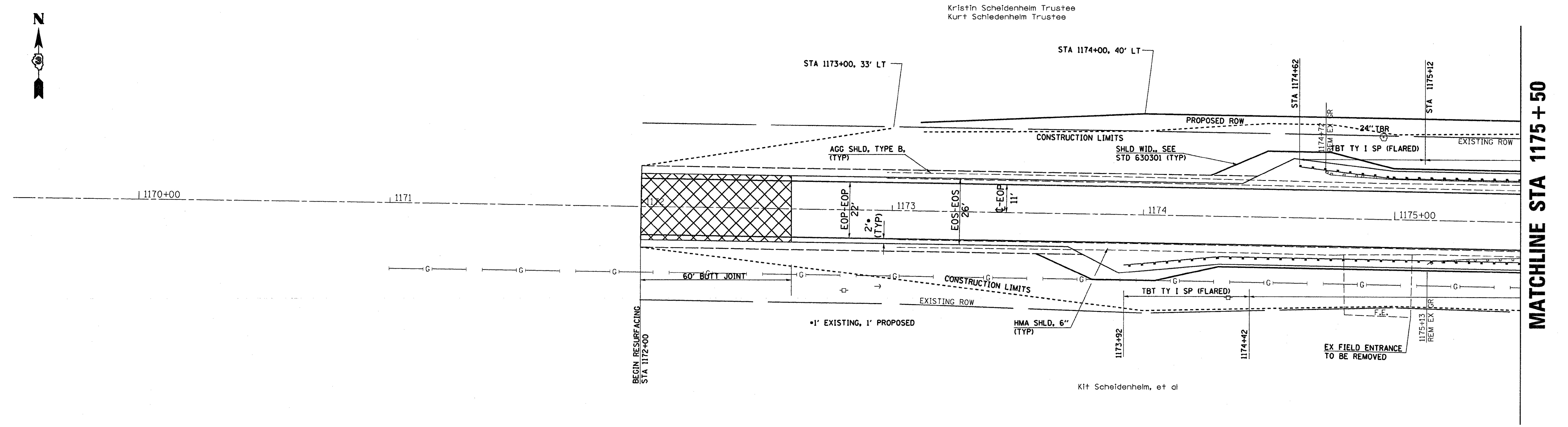
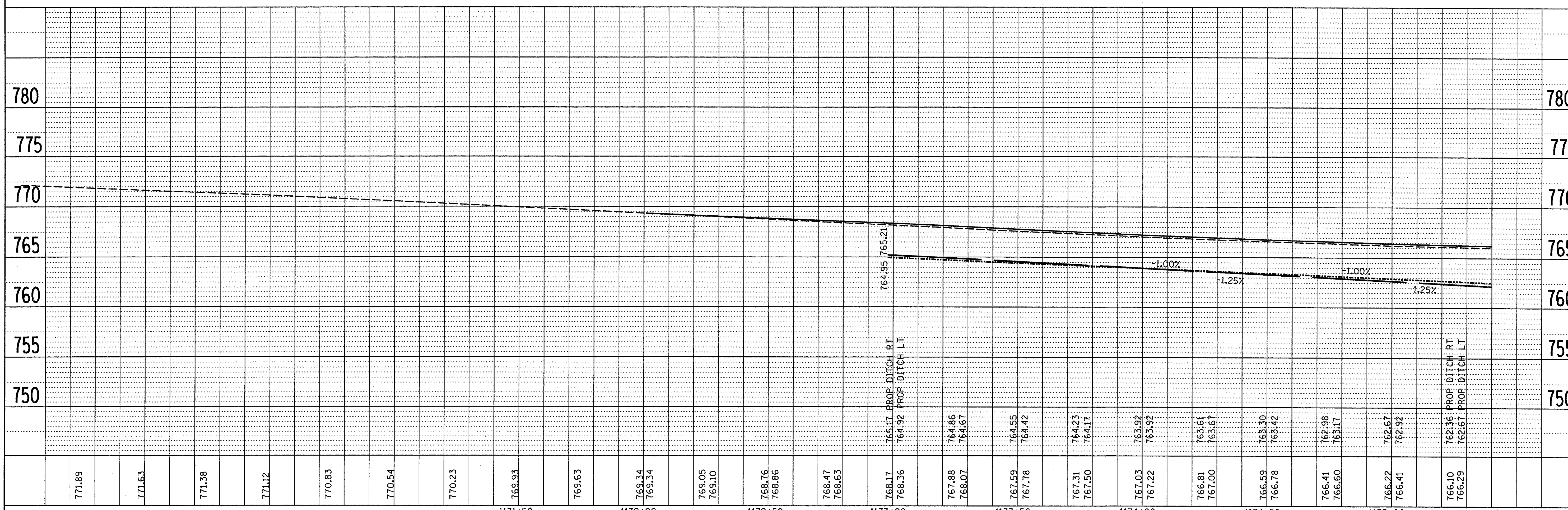
		DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	8
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 66835	



BENCH MARK - 80d SPIKE IN FIELD ENT.
STA. 1175+04.97 - 21.18' RT.
ELEV. 768.19



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STA. 1172+00 TO STA. 1175+50
PR SN 050-2052

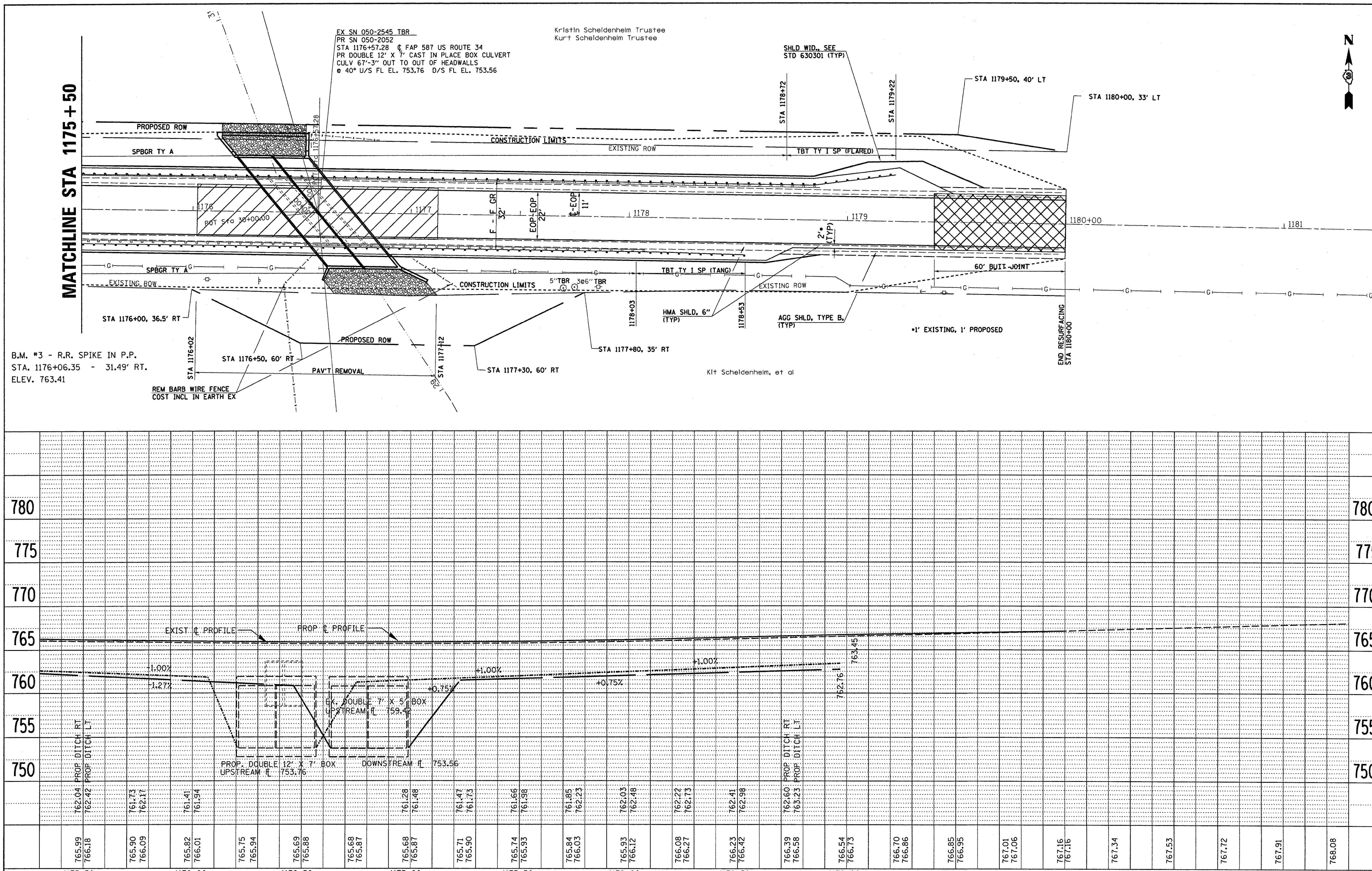
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	9
		CONTRACT NO. 66835		

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

PLAN	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK NO.	
BY	
DATE	

PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTAT'NS CHK'D	
NOTE BOOK NO.	
BY	
DATE	



MATCHLINE STA 1175+50
EX SN 050-2545 TBR
PR SN 050-2052
STA 1176+57.28 ℄ FAP 587 US ROUTE 34
PR DOUBLE 12' X 7' CAST IN PLACE BOX CULVERT
CULV 67'-3" OUT TO OUT OF HEADWALLS
@ 40° U/S FL EL. 753.76 D/S FL EL. 753.56
Kristin Scheidenhelm Trustee
Kurt Scheidenhelm Trustee
SHLD WID., SEE
STD 630301 (TYP)
STA 1178+72
STA 1179+22
STA 1179+50, 40' LT
STA 1180+00, 33' LT
PROPOSED ROW
SPBGR TY A
CONSTRUCTION LIMITS
EXISTING ROW
TBT TY I SP (FLARED)
POT Sta 30+00.00
1176
1177
1178
1179
1180+00
1181
F - F GR 32'
EOP-EOP 22'
℄-EOP 11'
2'* (TYP)
60' BUTT JOINT
SPBGR TY A
TBT TY I SP (TANG)
EXISTING ROW
CONSTRUCTION LIMITS
5"TBR 306"TBR
STA 1176+00, 36.5' RT
1178+03
HMA SHLD, 6" (TYP)
1178+53
AGG SHLD, TYPE B, (TYP)
*1' EXISTING, 1' PROPOSED
END RESURFACING STA 1180+00
PROPOSED ROW
STA 1176+02
STA 1176+50, 60' RT
STA 1177+12
STA 1177+80, 35' RT
STA 1177+30, 60' RT
PAV'T REMOVAL
REM BARB WIRE FENCE
COST INCL IN EARTH EX
Kit Scheidenhelm, et al
B.M. #3 - R.R. SPIKE IN P.P.
STA. 1176+06.35 - 31.49' RT.
ELEV. 763.41
N
780
775
770
765
760
755
750
EXIST ℄ PROFILE
PROP ℄ PROFILE
-1.00%
-1.27%
+1.00%
+0.75%
+0.75%
+1.00%
763.45
762.76
EX. DOUBLE 7' X 5' BOX
UPSTREAM ℄ 759.42
PROP. DOUBLE 12' X 7' BOX
UPSTREAM ℄ 753.76
DOWNSTREAM ℄ 753.56
PROP DITCH RT
PROP DITCH LT
762.04 762.42
761.73 762.17
761.41 761.94
761.28 761.48
761.47 761.73
761.66 761.98
761.85 762.23
762.03 762.48
762.22 762.73
762.41 762.98
762.60 763.23
765.99 766.18
765.90 766.09
765.82 766.01
765.75 765.94
765.69 765.88
765.68 765.87
765.68 765.87
765.71 765.90
765.74 765.93
765.84 766.03
765.93 766.12
766.08 766.27
766.23 766.42
766.39 766.58
766.54 766.73
766.70 766.86
766.85 766.95
767.01 767.06
767.16 767.16
767.34
767.53
767.72
767.91
768.08
1175+50
1176+00
1176+50
1177+00
1177+50
1178+00
1178+50
1179+00
1179+50
1180+00
1180+50

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STA. 1175+50 TO STA. 1180+00
PR SN 050-2052

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	10
		CONTRACT NO. 66835		

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

NOTES

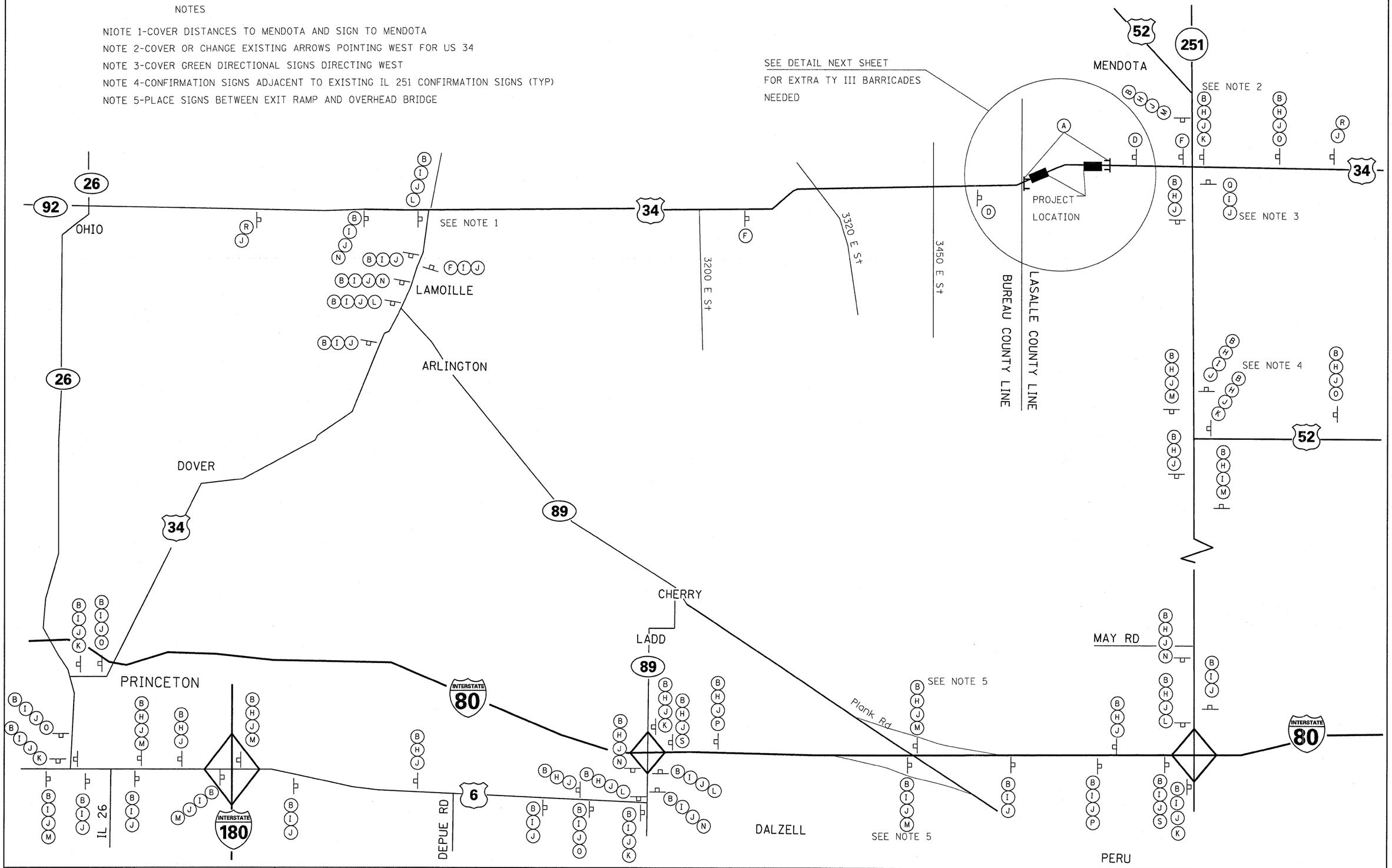
NIOTE 1-COVER DISTANCES TO MENDOTA AND SIGN TO MENDOTA

NOTE 2-COVER OR CHANGE EXISTING ARROWS POINTING WEST FOR US 34

NOTE 3-COVER GREEN DIRECTIONAL SIGNS DIRECTING WEST

NOTE 4-CONFIRMATION SIGNS ADJACENT TO EXISTING IL 251 CONFIRMATION SIGNS (TYP)

NOTE 5-PLACE SIGNS BETWEEN EXIT RAMP AND OVERHEAD BRIDGE



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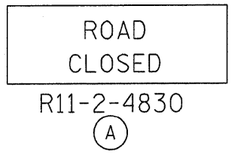
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

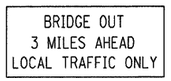
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22) I & I-1	LASALLE	31	11
		CONTRACT NO. 66835		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



R11-2-4830

(A)

M4-10-4818



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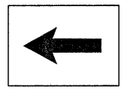
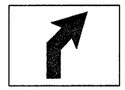
(F)



M6-1-2115

(K)



M5-2-2115

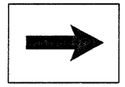
(P)

M4-8-2412

(B)

R3-1-2430

(G)



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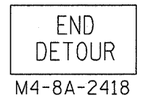
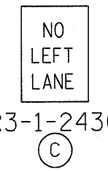
(L)



M4-8A-2418

(Q)



R3-1-2430

(C)

M3-1-2412

(H)

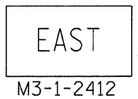
M6-3-2115

(M)

(R)

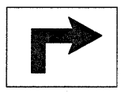
W20-3-4848

(D)



M3-1-2412

(I)

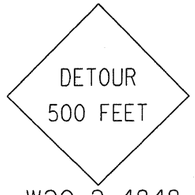


M5-1-2115

(N)

M5-1-2115

(S)



W20-2-4848

(E)

M1-4-24

(J)

M5-1-2115

(O)

LEGEND

TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE

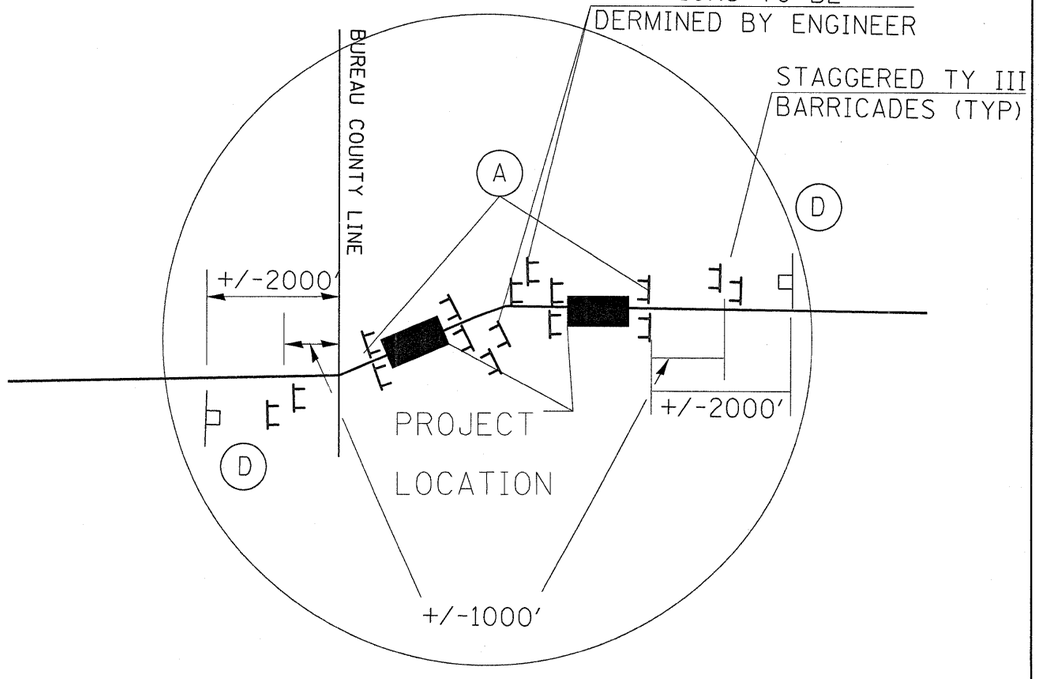
SIGNS ON PERMANENT SUPPORTS

FLASHING LIGHT ABOVE SIGN

18"×18" ORANGE FLAG

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.



DETAIL NEAR CULVERTS TO BE REMOVED

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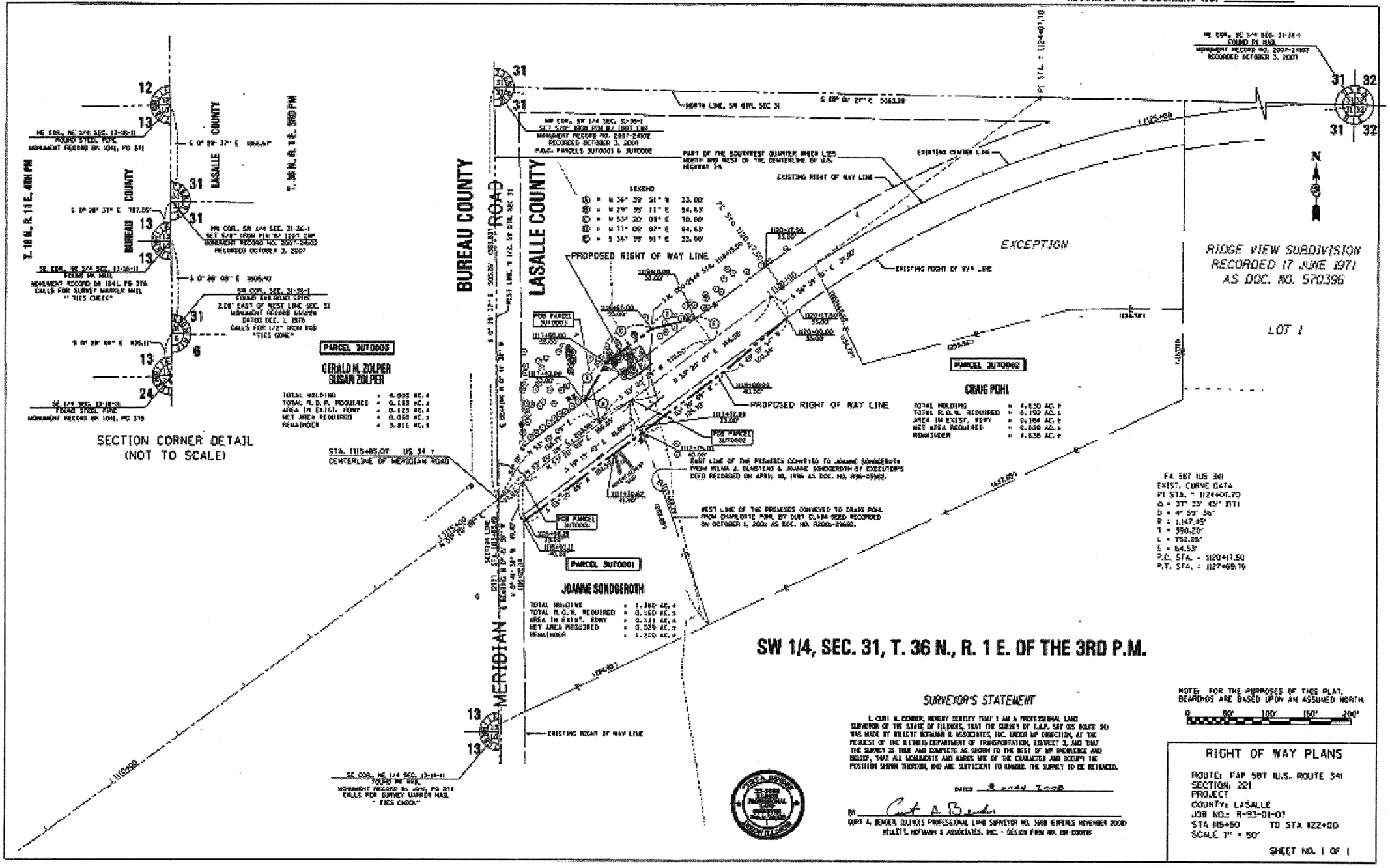
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22) I & I-1	LASALLE	31	12
		CONTRACT NO. 66835		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RECORDED AS DOCUMENT NO. _____



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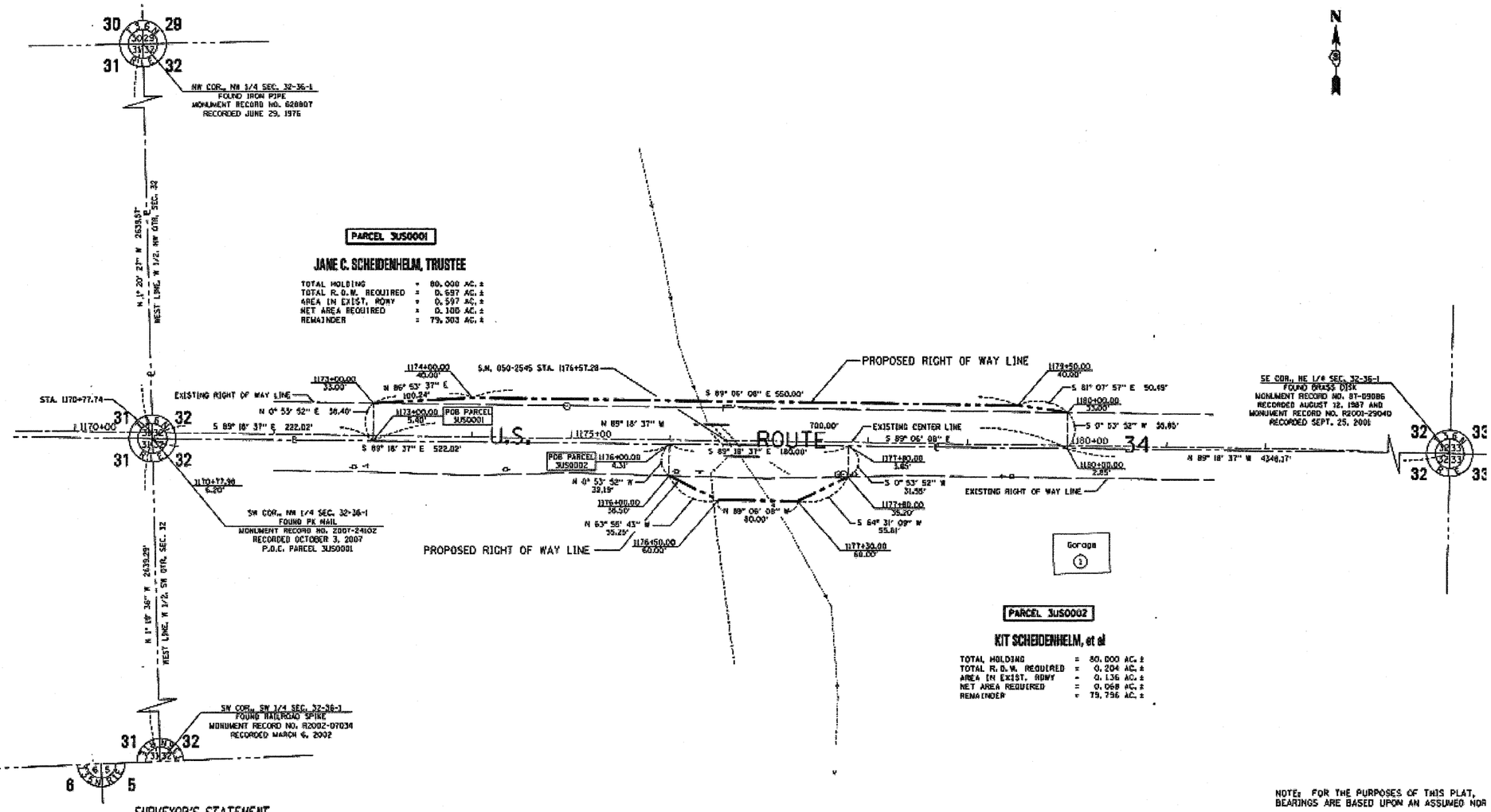
	PLOT SCALE = 50.0000 ' / IN.	DRAWN - ___	REVISED - ___		SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____
	PLOT DATE = Oct 17, 2008 - 07:41:29 AM	CHECKED - ___	REVISED - ___		
		DATE - _____	REVISED - ___		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	13
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SURVEYOR'S STATEMENT

I, CURT A. BENDER, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF F.A.P. 587 (US ROUTE 34) WAS MADE BY WILLETT HOFMANN & ASSOCIATES, INC. UNDER MY DIRECTION, AT THE REQUEST OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED 8 MAY 2008

BY Curt A. Bender

CURT A. BENDER, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3688 EXPIRES NOVEMBER 2008
WILLETT, HOFMANN & ASSOCIATES, INC. - DESIGN FIRM NO. 184-000918

CURT A. BENDER 35-3688 ILLINOIS PROFESSIONAL LAND SURVEYOR WILLETT, HOFMANN & ASSOCIATES DESIGN FIRM 184.001918

SW 1/4, SEC. 32, T. 36 N., R. 1 E. OF THE 3RD P.M.

NOTE: FOR THE PURPOSES OF THIS PLAT, BEARINGS ARE BASED UPON AN ASSUMED NDR

0 50' 100' 150' 20

RIGHT OF WAY PLANS

ROUTE: FAP 587 (U.S. ROUTE 34)
SECTION: 22I-1
PROJECT
COUNTY: LASALLE
JOB NO.: R-93-010-07
STA 1173+00 TO STA 1180+00
SCALE 1" = 50'

SHEET NO. 1 OF 1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROW SHEETS

SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	14
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

Benchmark: Rail Road Spike in power pole Sta. 1115+74.96, 35.60' Lt. Elev. = 792.14

Existing Structures: SN 050-2544 Built in 1924 as a single 9' x 6' R.C. box culvert. 41'-0" face to face of curb with culvert length of 42'-10¾", 17° Lt fwd skew. Traffic will be maintained utilizing detour.

No salvage.

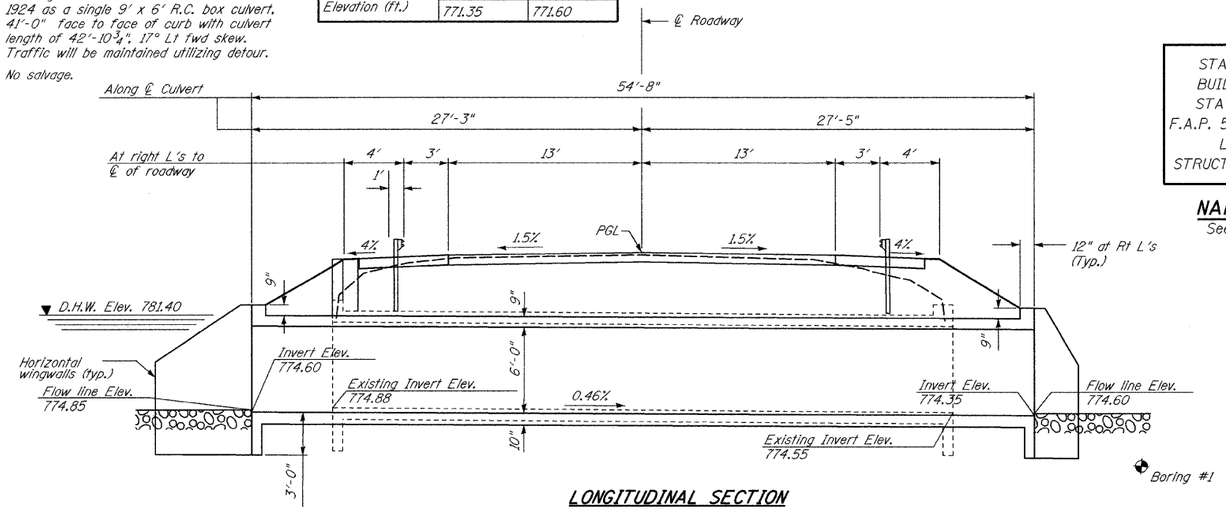
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	771.35	771.60

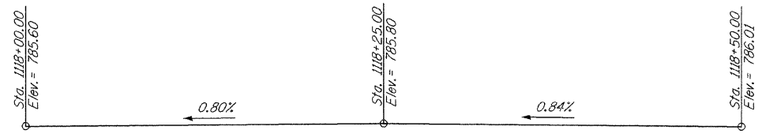
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION 1118+15.00
BUILT 20____ BY
STATE OF ILLINOIS
F.A.P. 587 SEC.(22)I & I-1
LOADING HS20
STRUCTURE NO. 050-2051

NAME PLATE
See Std. 515001



LONGITUDINAL SECTION



PROFILE GRADE
(along ℄ roadway)

WATERWAY INFORMATION

Drainage Area= 0.77 Sq. Mi. Exisit. Low Grade El. 785.41 @ Sta. 1118+00 Prop. Low Grade El. 785.60 @ Sta. 1118+00

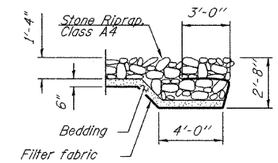
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.**	Opening Sq. Ft. Prop.**	NAT. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	411	48	89	780.2	1.1	0.0	781.3	780.2
Design	50	713	54	96	781.4	4.0	0.0	785.4	781.4
Base	100	855	54	96	781.7	4.4	0.4	786.2	782.1
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1213	54	96	782.2	4.7	2.2	786.9	784.4

10-year velocity through exist. struct. = 10.0 fps
** Gross opening = 54 sq. ft.(exist.) 96 sq. ft.(prop.)

10-year velocity through prop. struct. = 5.4 fps

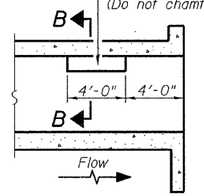
TOTAL BILL OF MATERIALS

Description	Unit	Total
Stone Riprap Class A4	Sq. Yd.	57
Filter Fabric	Sq. Yd.	57
Removal of Existing Structures No. 1	Each	1
Reinforcement Bars	Pound	12700
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	84.0

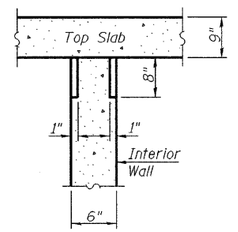


SECTION A-A

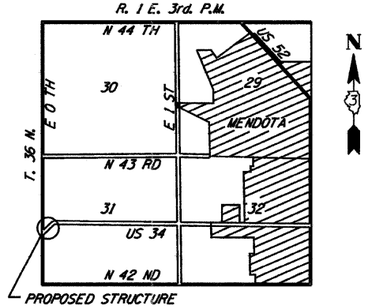
Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



LONGITUDINAL SECTION



SECTION B-B



LOCATION SKETCH

INDEX OF CULVERT PLANS

1. General Plan & Elevation
2. Culvert Details
3. Soil Borings

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. Precast alternate is not allowed.
4. The contractor is advised that the existing box culvert is in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the culvert when developing construction procedures for the removal and replacement of the culvert.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

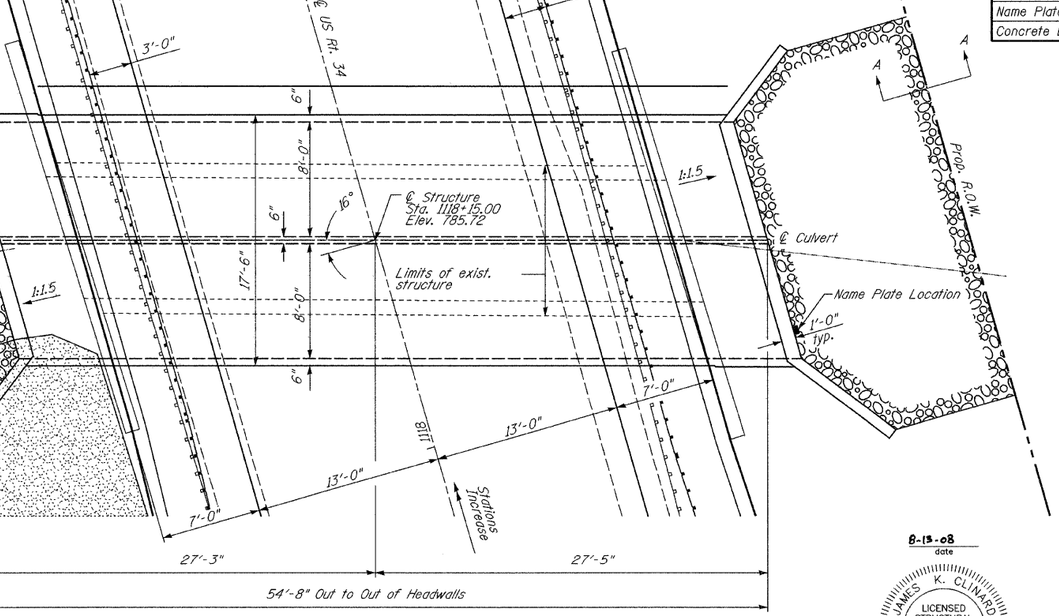
2002 AASHTO

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (reinforcement)

PHOEBE NESTING SITE DETAILS
(Downstream End Only)



PLAN

Boring #2

DESIGNED	JKC
CHECKED	JLS
DRAWN	NV
CHECKED	JKC

8-13-08
date

JAMES K. CLINARD
LICENSED STRUCTURAL ENGINEER NO. 081-004655
STATE OF ILLINOIS
expires 11-30-2008
signature
PROFESSIONAL DESIGN FIRM LICENSE NO. 184-001717

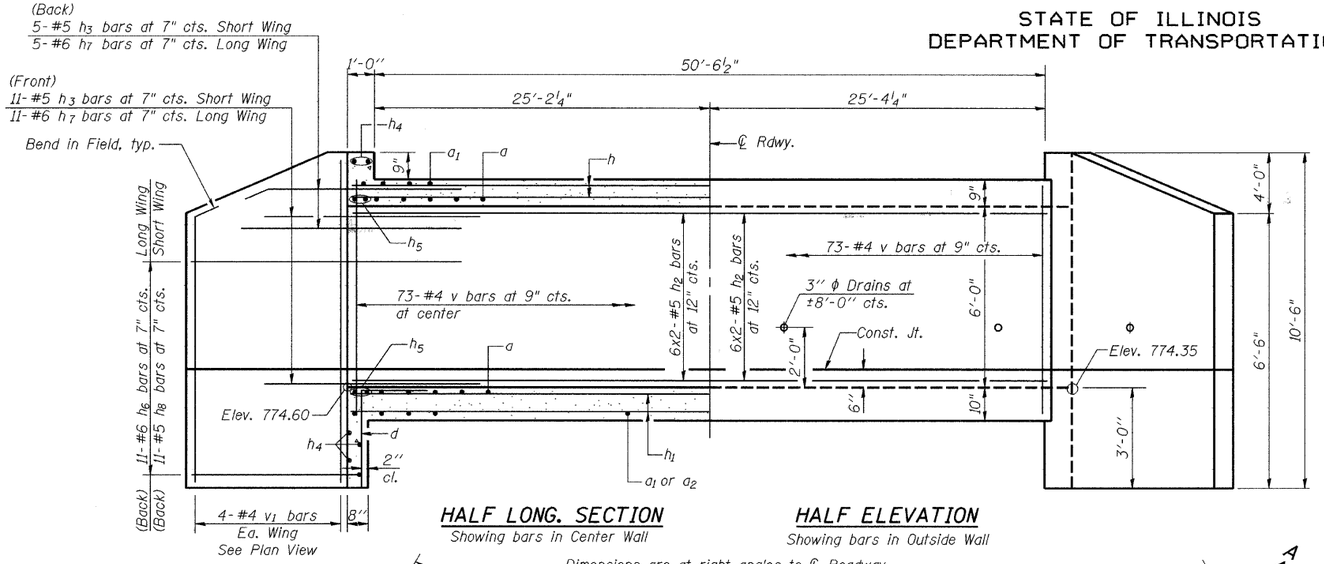
APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

CHAMLIN & ASSOCIATES
PERU ILLINOIS MORRIS

GENERAL PLAN & ELEVATION
US 34 OVER
TRIBUTARY TO SPRING CREEK
FAP 587 - SECTION (22) I & I-1
LASALLE COUNTY
STA. 1118+15.00
SN 050-2051

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3 SHEETS	587	(22) I & I-1	LASALLE	31	15
	SN 050-2051		CONTRACT NO. 66835		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

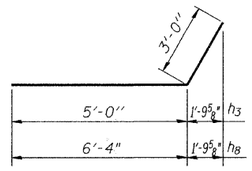
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



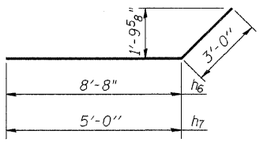
HALF LONG. SECTION
Showing bars in Center Wall

HALF ELEVATION
Showing bars in Outside Wall

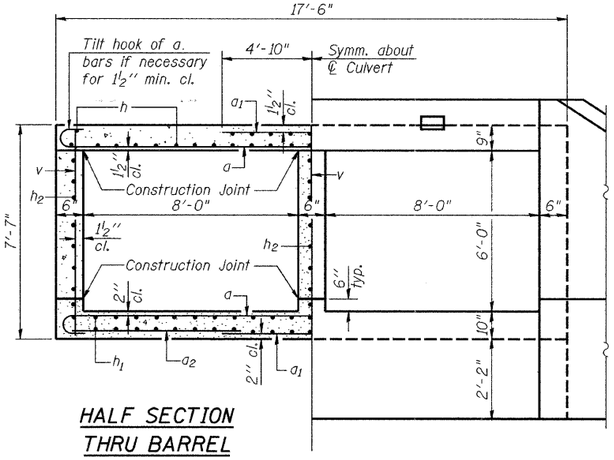
Dimensions are at right angles to ℄ Roadway



BARS h3 & h8



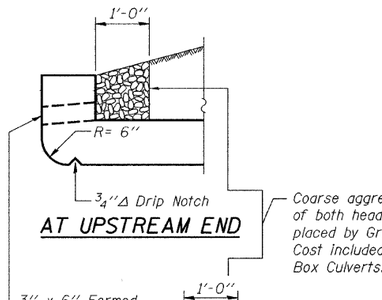
BARS h6 & h7



HALF SECTION THRU BARREL

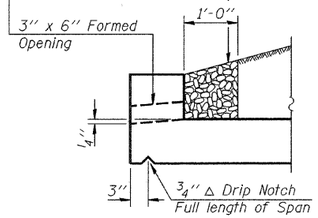
HALF END ELEVATION

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.



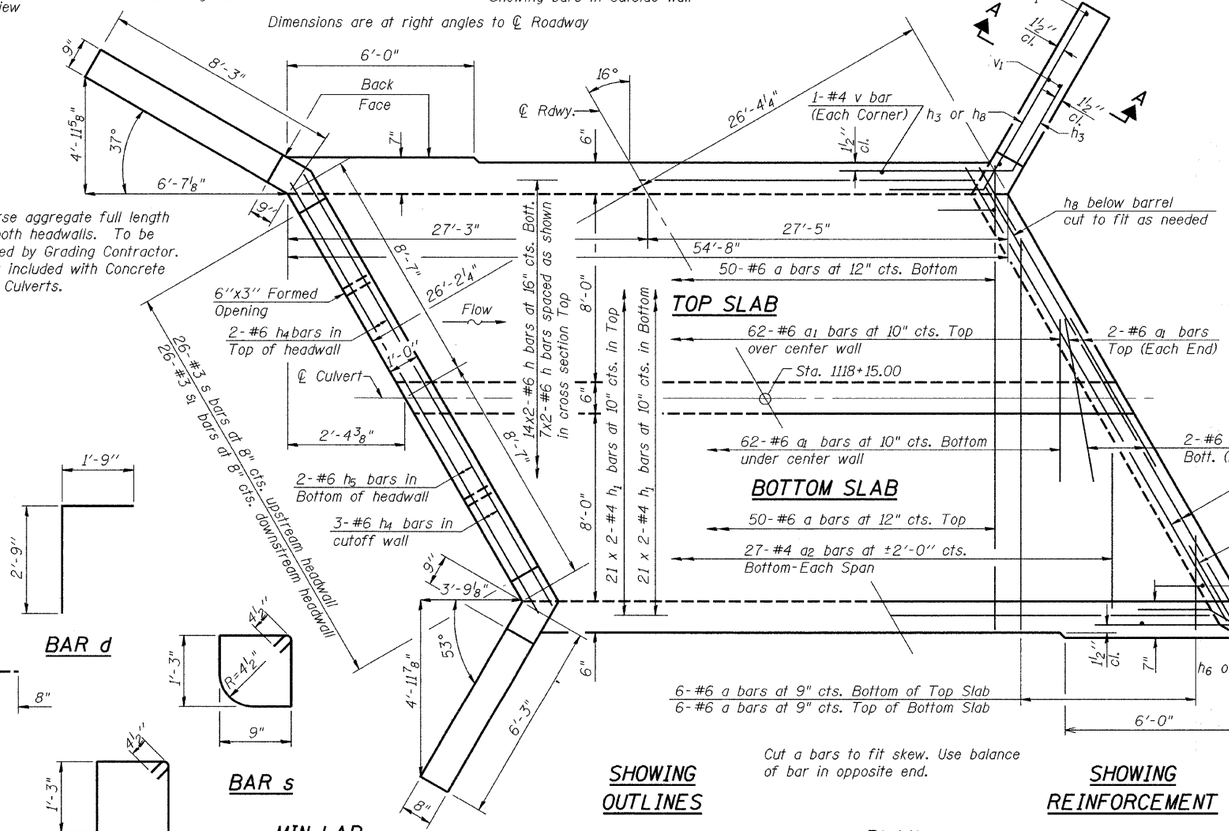
AT UPSTREAM END

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.



AT DOWNSTREAM END

DRAIN DETAIL

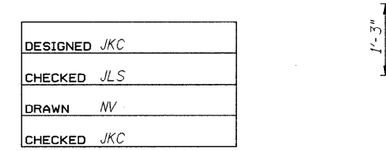


SHOWING OUTLINES

Cut a bars to fit skew. Use balance of bar in opposite end.

SHOWING REINFORCEMENT

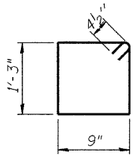
PLAN



BAR a

BAR d

BAR s

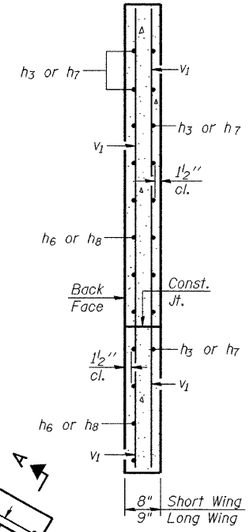


BAR s1

MIN LAP
#4 bars 1'-4"
#5 bars 1'-8"
#6 bars 2'-0"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	112	#6	18'-7"	
a1	132	#6	9'-8"	
a2	54	#4	5'-10"	
d	34	#4	4'-6"	
h	42	#6	28'3"	
h1	84	#4	27'-10"	
h2	36	#5	28'-1"	
h3	32	#5	8'-0"	
h4	10	#6	17'-2"	
h5	8	#6	18'-0"	
h6	22	#6	11'-8"	
h7	32	#6	8'-0"	
h8	22	#5	9'-4"	
s	26	#3	4'-7"	
s1	26	#3	4'-9"	
v	223	#4	6'-10"	
v1	16	#4	10'-3"	
Concrete Box Culverts			Cu. Yd.	84.0
Reinforcement Bars			Pound	12700



SECTION A-A

CULVERT DETAILS

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3 SHEETS	587	(22) I & I-1	LASALLE	31	16
	SN 050-2051		CONTRACT NO. 66835		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

DESIGNED	JKC
CHECKED	JLS
DRAWN	NV
CHECKED	JKC

DB-H-L 5-16-08

CHAMLIN & ASSOCIATES
PERU ILLINOIS MORRIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 4/28/06

ROUTE US 34 DESCRIPTION Box Culvert: US 34 over drainage LOGGED BY Larry Myers

SECTION 22 I & I-1 LOCATION SW 1/4, SEC. 31, TWP. 36N, RNG. 01E

COUNTY La Salle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME automatic

STRUCT. NO. 050-2544
Station 1118+15

BORING NO. #1: SE Quad
Station 1118+33
Offset 39.00ft Rt
Ground Surface Elev. 779.94 ft

Surface Water Elev. 775.08 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion 770.4 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered, black, Silty Clay				
778.44				
Stiff, black, Silty Clay		3		
		3	2.0	24.4
		4	P	
775.44				
Stiff, gray brown, Silty Loam	-5	2		
		1	1.5	19.3
		3	P	
		wh		
		2	1.3	22.6
		2	P	
770.44 ▽				
Very soft to medium, brown, Silt with very minor, Clay and ultra fine, Sand layers at 16'	-10	wh		
		2	0.0	28.1
		3	P	
		3		
		4	1.0	24.9
		5	P	
	-15	1		
		2	0.8	26.1
763.44		5	P	
Loose, brown, fine, Sand with minor Silt		2		
		3		24.9
		5		
760.44	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, brown, fine to coarse, Sand *(continued)*		3		
		5		20.6
		8		
757.94				
Medium, gray, fine to coarse, Sand with layers of fine to medium, Gravel		6		
		7		18.3
		7		
	-25	7		
		8		17.5
		9		
		6		
		12		17.7
		10		
	-30	10		
		14		17.6
		12		
	-35	12		
		10		12.6
743.44		11		
End of Boring				
	-40			

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)

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 5/8/06

ROUTE US 34 DESCRIPTION Box Culvert: US 34 over drainage LOGGED BY Larry Myers

SECTION 22 I & I-1 LOCATION SW 1/4, SEC. 31, TWP. 36N, RNG. 01E

COUNTY La Salle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME automatic

STRUCT. NO. 050-2544
Station 1118+15

BORING NO. #2: NW Quad
Station 1117+82
Offset 24.00ft Lt
Ground Surface Elev. 783.18 ft

Surface Water Elev. 775.08 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion 770.7 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered, brown, Silty Clay fill with large concrete debris to 4'				
778.18	-5	2		
Stiff, black, Silty Clay with trace of organics		4	1.5	38.7
		6	P	
		2		
774.68		4	1.5	24.8
Stiff, gray brown, Silty Loam to Silty Clay with sof, Gravel pieces		3	P	19.9
	-10		1.5	
		4	P	
		6	1.8	22.9
771.68		6	P	
Loose, brown, Silt and fine, Sand with layers of each ▽		3		
		4		23.4
		4		
	-15	1		
		1		24.7
		3		
766.18				
Medium, brown, fine, Sand and Silt with some medium, Sand at 21'		5		
		9		24.4
		12		
	-30			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, brown, fine, Sand and Silt with some medium, Sand at 21' *(continued)*		5		
		7		25.4
		11		
761.18				
Medium, brown, fine to coarse, Sand with some fine to medium, Gravel		9		
		10		17.4
		12		
758.18	-25			
Medium, gray, fine to coarse, Sand bedded with layers of Silt and layers of fine, Gravel		8		
		9		21.8
		10		
wash sample @ 25'				
		8		
		9		16.8
		10		
	-30	9		
		12		17.4
		15		
	-35	9		
		10		17.4
		11		
End of Boring				
	-40			

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

BBS, from 137 (Rev. 8-99)

DESIGNED	JKC
CHECKED	JLS
DRAWN	NV
CHECKED	JKC

CHAMLIN & ASSOCIATES
PERU ILLINOIS MORRIS

SOIL BORINGS

SHEET NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3 SHEETS	587	(22) I & I-1	LASALLE	31	17
	SN 050-2051		CONTRACT NO. 66835		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

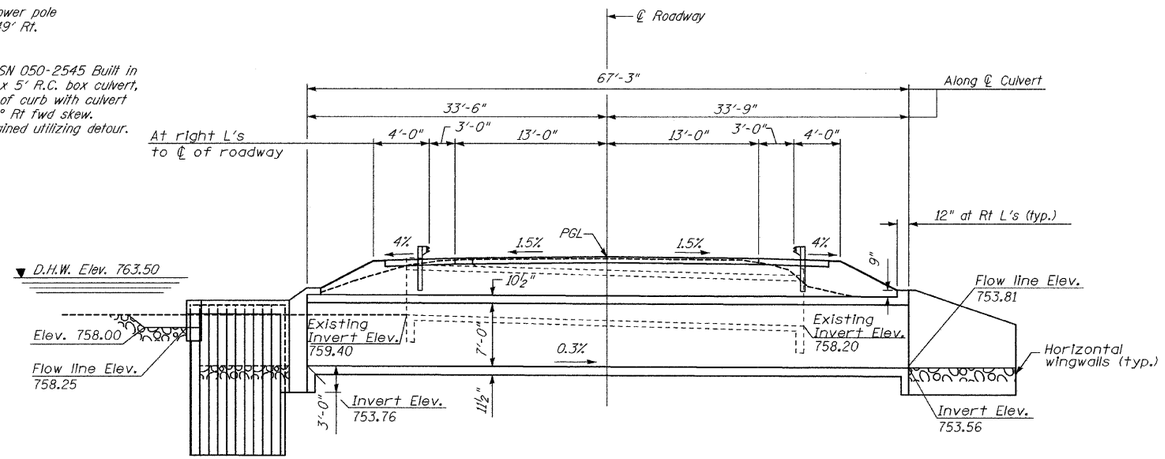
Benchmark: 80d Spike in field entrance
Sta. 1175+04.97, 21.18' Rt.
Elev. = 768.19

Rail Road Spike in power pole
Sta. 1176+06.35, 31.49' Rt.
Elev. = 763.41

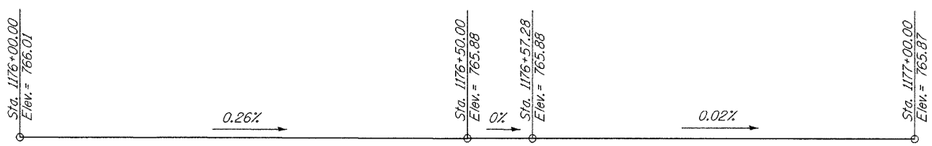
Existing Structures: SN 050-2545 Built in 1924 as a double 7' x 5' R.C. box culvert, 30'-8" face to face of curb with culvert length of 46'-3", 45° Rt fwd skew. Traffic will be maintained utilizing detour.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LONGITUDINAL SECTION



PROFILE GRADE
(along ℄ roadway)

WATERWAY INFORMATION

Drainage Area = 1.50 Sq. Mi. Exist. Low Grade El. 765.68 @ Sta. 1177+00 Prop. Low grade El. 765.87 @ Sta. 1177+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.**	Opening Sq. Ft. Prop.**	NAT. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	573	44	168	762.5	1.8	0.3	764.3	762.8
Design	50	980	57	168	763.5	1.3	0.8	764.8	764.3
Base	100	1169	70	168	764.5	1.2	0.7	765.7	765.2
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1644	70	168	764.9	1.1	0.7	766.0	765.6

10-year velocity through exist. struct. = 10.9 fps
** Gross opening: 70 sq. ft.(exist.) 168 sq. ft.(prop.)

10-year velocity through prop. struct. = 3.4 fps

DESIGN SCOUR ELEVATION TABLE

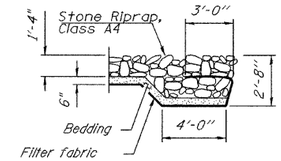
Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	750.56	750.76

Boring #2

STATION 1176+57.28
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. 587 SEC.(22)I & I-1
LOADING HS20
STRUCTURE NO. 050-2052

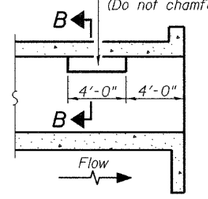
NAME PLATE
See Std. 515001

INDEX OF CULVERT PLANS

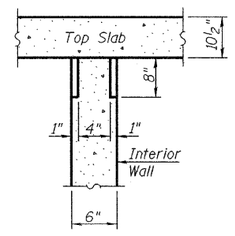


SECTION A-A

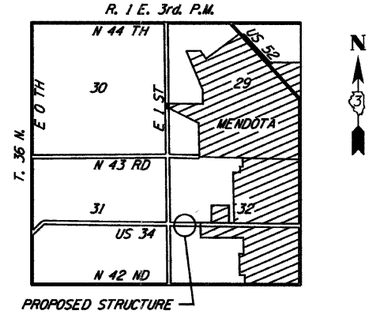
Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



LONGITUDINAL SECTION



SECTION B-B



LOCATION SKETCH

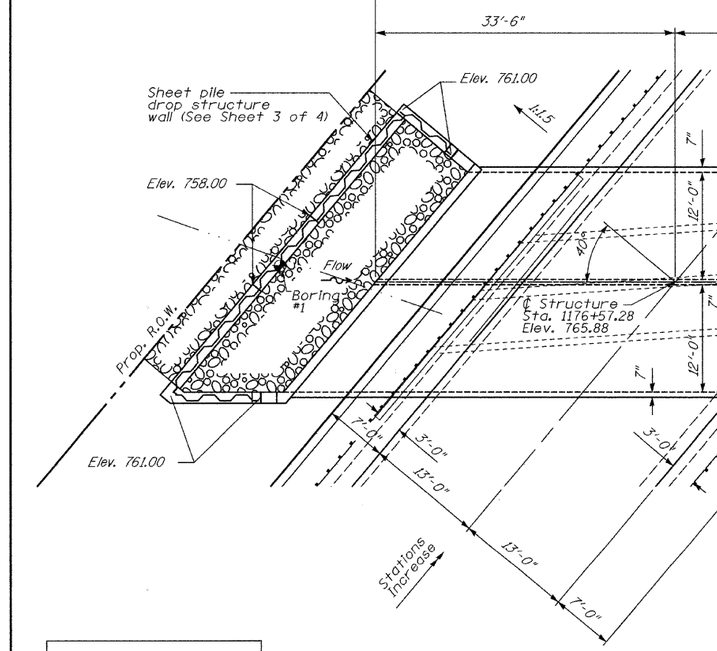
GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. Precast alternate is not allowed.
4. The contractor is advised that the existing box culvert is in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the culvert when developing construction procedures for the removal and replacement of the culvert.

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 38,500 psi (permanent sheet piling)



PLAN

TOTAL BILL OF MATERIALS		
Description	Unit	Total
Stone Riprap, Class A4	Sq. Yd.	115
Filter Fabric	Sq. Yd.	115
Removal of Existing Structures No. 2	Each	1
Stud Shear Connectors	Each	74
Reinforcement bars	Pound	32890
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	170.5
Permanent Steel Sheet Piling	Sq. Ft.	772

DESIGNED	JKC
CHECKED	JLS
DRAWN	NV
CHECKED	JKC

date
JAMES K. CLINARD
LICENSED STRUCTURAL ENGINEER NO. 081-004655
STATE OF ILLINOIS
expires 11-30-2008
signature
PROFESSIONAL DESIGN FIRM LICENSE NO. 184-001717

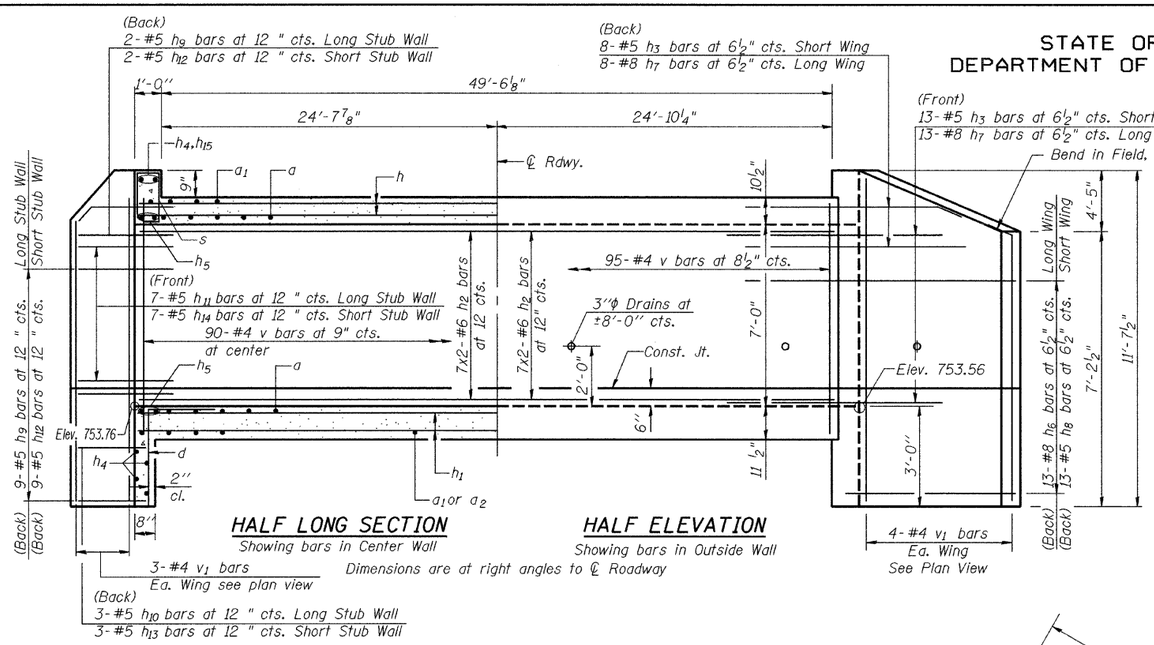
CHAMLIN & ASSOCIATES
PERU ILLINOIS MORRIS

GENERAL PLAN & ELEVATION
US 34 OVER
TRIBUTARY TO MENDOTA CREEK
FAP 587 - SECTION (22) I & I-1
LASALLE COUNTY
STA. 1176+57.28
SN 050-2052

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	587	(22) I & I-1	LASALLE	31	18
	SN 050-2052		CONTRACT NO. 66835		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

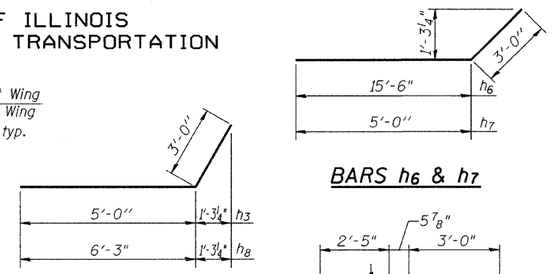
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

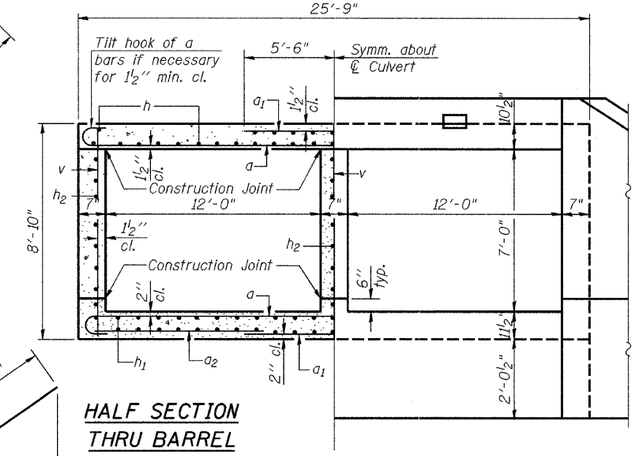


HALF LONG SECTION
Showing bars in Center Wall

HALF ELEVATION
Showing bars in Outside Wall

Dimensions are at right angles to ℄ Roadway

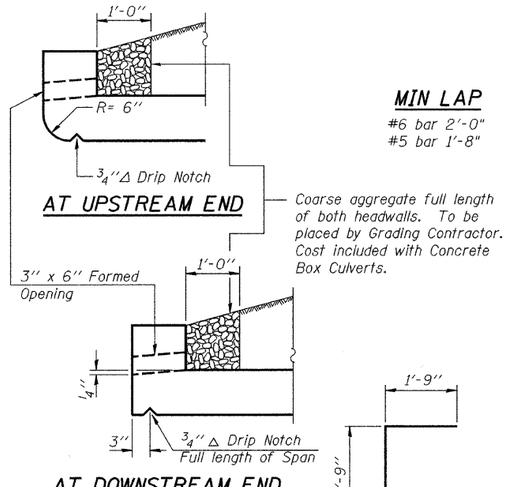




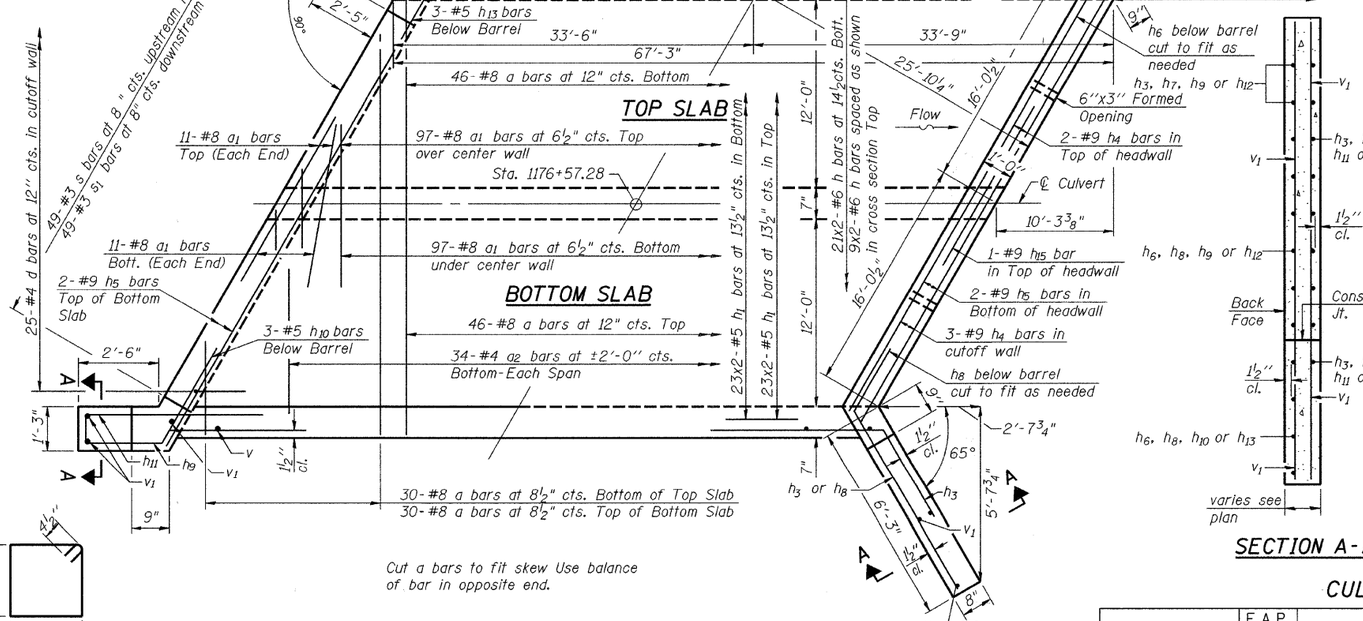
HALF SECTION THRU BARREL

HALF END ELEVATION

Notes: A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

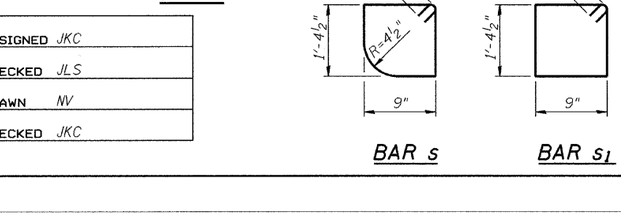


MIN LAP
#6 bar 2'-0"
#5 bar 1'-8"



PLAN

Cut a bars to fit skew Use balance of bar in opposite end.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	152	#8	26'-10"	
a1	238	#8	11'-0"	
a2	68	#4	8'-4"	
d	50	#4	4'-6"	
h	60	#6	34'-6"	
h1	92	#5	34'-4"	
h2	42	#6	34'-6"	
h3	21	#5	8'-0"	
h4	10	#9	32'-9"	
h5	8	#9	32'-9"	
h6	13	#8	18'-6"	
h7	21	#8	8'-0"	
h8	13	#5	9'-3"	
h9	11	#5	6'-2"	
h10	3	#5	4'-1"	
h11	7	#5	5'-6"	
h12	11	#5	6'-4"	
h13	3	#5	5'-0"	
h14	7	#5	4'-8"	
h15	2	#9	9'-6"	
v	284	#4	8'-6"	
v1	14	#4	11'-4"	
s	49	#3	4'-10"	
s1	49	#3	5'-0"	
Concrete Box Culverts			Cu. Yd.	165.5
Reinforcement Bars			Pound	32600

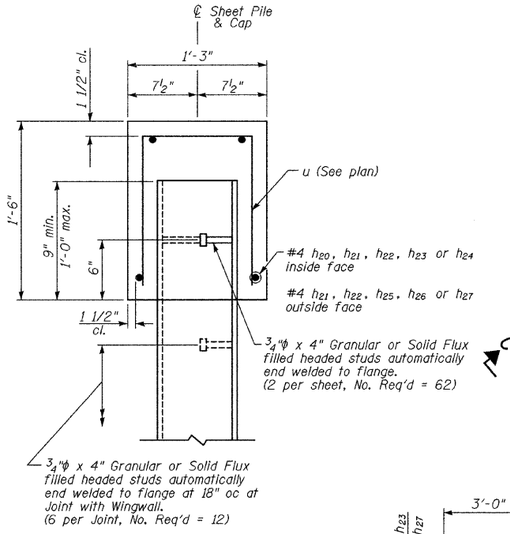
CULVERT DETAILS

DESIGNED	JKC
CHECKED	JLS
DRAWN	NV
CHECKED	JKC

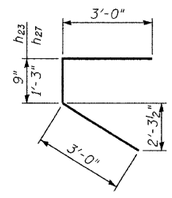
CHAMLIN & Associates
PERU ILLINOIS MORRIS

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	587	(22) I & I-1	LASALLE	31	19
	SN 050-2052		CONTRACT NO. 66835		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

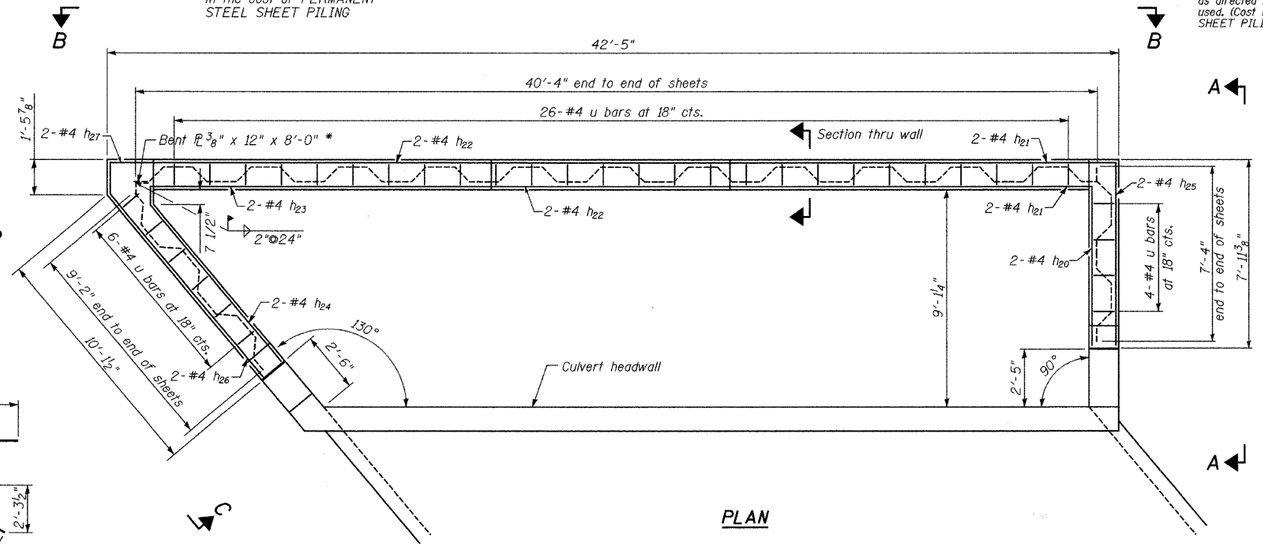


SECTION THRU WALL



BAR h23 or h27

* Cost of furnishing and installing bent plate shall be considered included in the cost of PERMANENT STEEL SHEET PILING



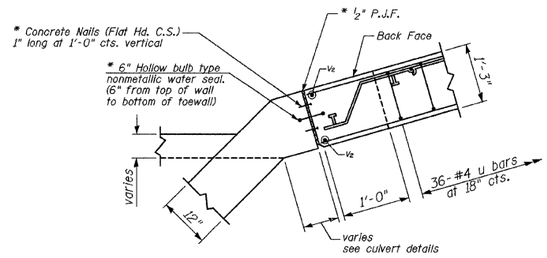
PLAN

NOTES: Permanent Steel Sheet Piling shall have a minimum effective section modulus greater than or equal to 15.3 in³/Ft. See Special Provisions

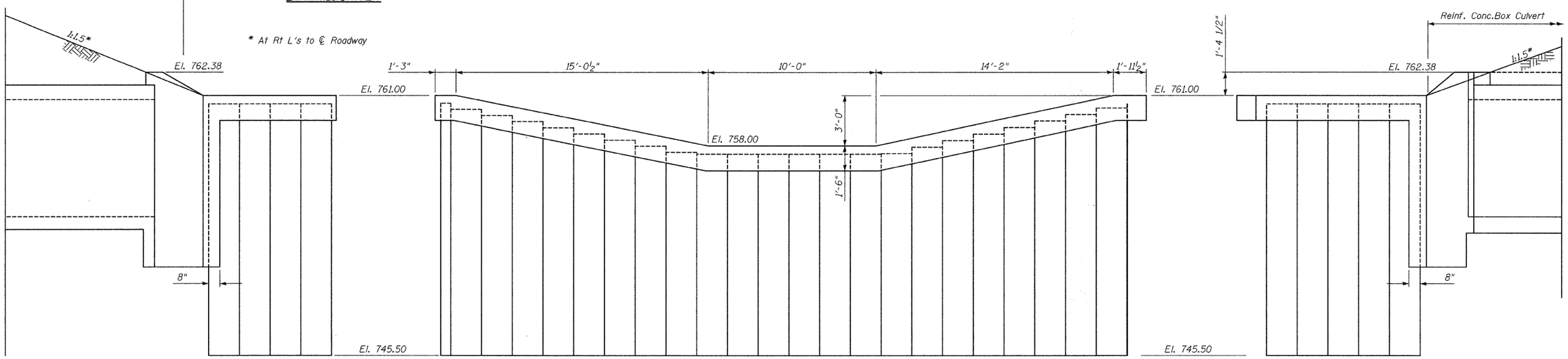
Plan geometry has been based upon PZ 22 sheet piling. The contractor may need to make adjustments as directed by the Engineer if another size is to be used. (Cost included with PERMANENT STEEL SHEET PILING)

DROP STRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20	2	#4	6'-7"	——
h21	4	#4	6'-0"	——
h22	4	#4	39'-11"	⌣
h23	2	#4	6'-9"	⊆
h24	2	#4	8'-6"	——
h25	2	#4	7'-9"	——
h26	2	#4	9'-10"	——
h27	2	#4	7'-3"	⊆
u	36	#4	3'-5"	⊓
v2	4	#4	10'-0"	——
Reinforcement Bars			Pound	290
Concrete Box Culverts			Cu. Yd.	5.0
Stud Sheer Connectors			Each	74
Permanent Steel Sheet Piling			Sq. Ft.	772



CORNER DETAIL

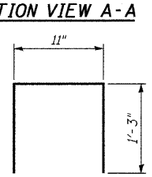


ELEVATION VIEW A-A

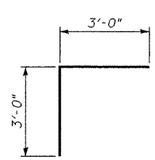
ELEVATION VIEW B-B

ELEVATION VIEW C-C

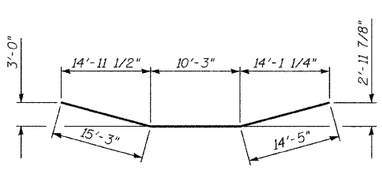
DESIGNED	JKC
CHECKED	JLS
DRAWN	NV
CHECKED	JKC



BAR U



BAR h21



BAR h22

CHAMLIN & ASSOCIATES
PERU ILLINOIS MORRIS

DROP STRUCTURE DETAILS

SHEET NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	587	(22) I & I-1	LASALLE	31	20
	SN 050-2052		CONTRACT NO. 66835		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 4/24/06

ROUTE FAP 587 (US34) DESCRIPTION Box Culvert: US 34 over drainage LOGGED BY Larry Myers

SECTION 22 I & I-1 LOCATION SW 1/4, SEC. 32, TWP. 36N, RNG. 01E, 3rd PM

COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 050-2545
Station 1176+57.28

BORING NO. #1: NW Quad
Station 1176+30.28
Offset 35.00ft Lt
Ground Surface Elev. 763.22 ft

Surface Water Elev. 759.75 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 751.2 ft ▼
Upon Completion 740.2 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered, black, Silty Clay			
760.72			
Stiff, black, Silty Clay	5		
	3	1.5	30.1
	3	P	
758.22 -5			
Medium, gray, Silty Clay Loam to Silt Loam to Silty Clay to Silt with trace organics (Alluvial Deposit)	2		
	2	0.8	26.2
	2	P	
	wh		
	wh	0.7	25.3
	4	B	
753.22 -10			
Loose to medium, brown, loamy, fine, Sand to coarse, Gravel with pockets of Loam (Alluvial deposit)	3		
	5		8.2
	3		
▼			
	5		
	8		13.0
	10		
748.22 -15			
Hard, gray, Clay with minor Silt	5		
	8	6.5	22.2
	14	S	
	8		
	12	5.4	21.7
	15	S	
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, gray, Clay with minor Silt *(continued)*	5		
	10	5.6	22.0
	15	S	
	8		
▽			
	10	4.8	22.2
	12	S	
-25			
	8		
	10	4.9	22.3
736.22	12	S	
Very stiff, gray, Clay with very minor Silt	4		
	5	2.9	27.4
	7	S	
-30			
	4		
	6	2.1	26.7
	8	S	
-35			
	4		
	5	2.2	26.7
728.72	8	S	
End of Boring			
-40			

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)

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 4/24/06

ROUTE FAP 587 (US34) DESCRIPTION Box Culvert: US 34 over drainage LOGGED BY Larry Myers

SECTION 22 I & I-1 LOCATION SW 1/4, SEC. 32, TWP. 36N, RNG. 01E, 3rd PM

COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 050-2545
Station 1176+57.28

BORING NO. #2: NE Quad
Station 1176+80.28
Offset 42.00ft Lt
Ground Surface Elev. 763.69 ft

Surface Water Elev. 759.75 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered, black, Silty Clay			
761.19			
Stiff, black, Silty Clay	2		
	2	1.5	40.8
	3	P	
-5			
	2		
	1	1.0	38.1
	2	P	
755.19			
Very loose to medium, brown, loamy, fine, Sand to coarse, Gravel with layers and pockets of Silt to Loam	wh		
	2		19.8
	1		
-10			
	1		
	4		13.4
	8		
751.19			
Very stiff to hard, gray, Silty Clay Loam Till	4		
	5	3.3	13.8
	8	S	
-15			
	5		
	8	5.1	14.4
	12	S	
	4		
	5	3.3	13.3
	6	S	
744.19 -20			
Very soft, gray, Silty Clay Loam Till			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very soft, gray, Silty Clay Loam Till *(continued)*	1		
	wh	no	
	wh	recovery	
	wh		
	wh		21.7
739.69	1		
Stiff, gray, Clay with very minor Silt			
-25			
	wh		
	1	1.0	31.8
	2	S	
	wh		
	4	1.5	29.6
	5	S	
-30			
	2		
	4	1.7	26.9
	5	S	
730.69			
Very stiff, gray, Clay with very minor Silt			
-35			
	2		
	5	2.5	22.7
727.19	6	S	
End of Boring			
-40			

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

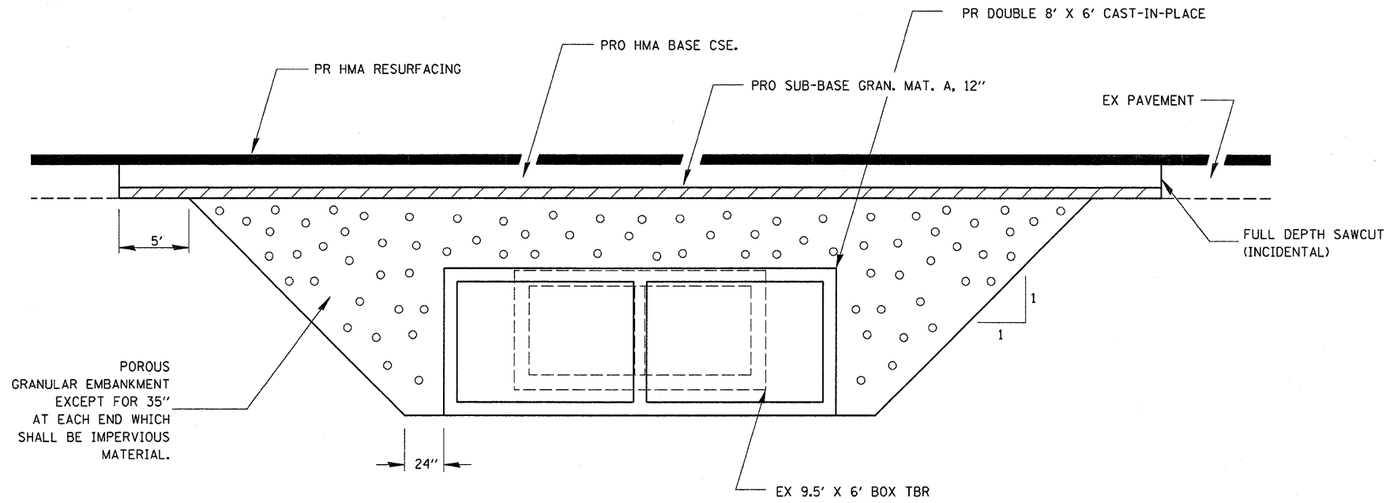
BBS, from 137 (Rev. 8-99)

DESIGNED	JKC
CHECKED	JLS
DRAWN	NV
CHECKED	JKC

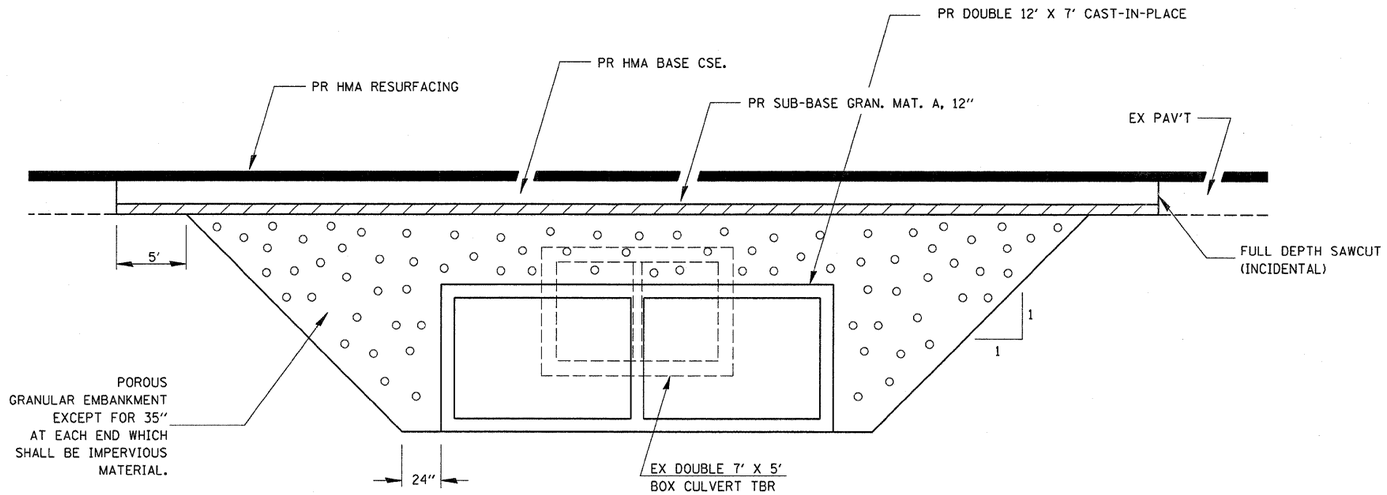
CHAMLIN & ASSOCIATES
PERU ILLINOIS MORRIS

SOIL BORINGS

SHEET NO. 4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	587	(22) I & I-1	LASALLE	31	21
	SN 050-2052		CONTRACT NO. 66835		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SECTION THROUGH CAST-IN-PLACE BOX CULVERT
STA 1118+15.00
PR SN 050-2051 /EX SN 050-2544
DOUBLE 8' X 6'



SECTION THROUGH CAST-IN-PLACE BOX CULVERT
STA 1176+57.28
PR SN 050-2052 /EX SN 050-2545
DOUBLE 12' X 7'

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		DRAWN - ---	REVISED - ---
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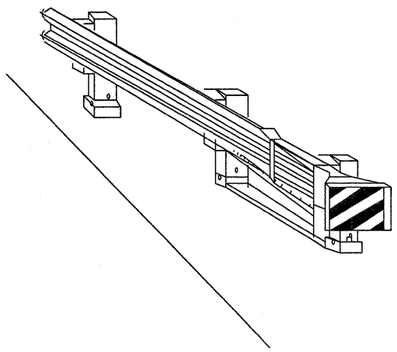
	PLOT DATE = Oct 17, 2008 - 07:40:50 AM	DATE - _____	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

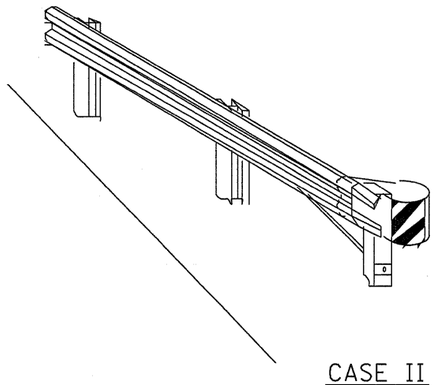
POUROUS GRANULAR EMBANKMENT DETAIL

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

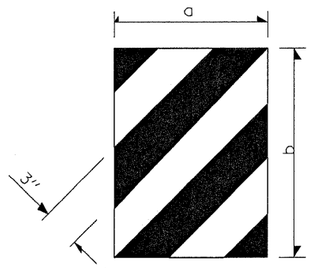
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	22
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

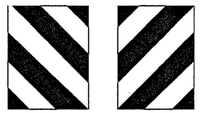


CASE I



CASE II





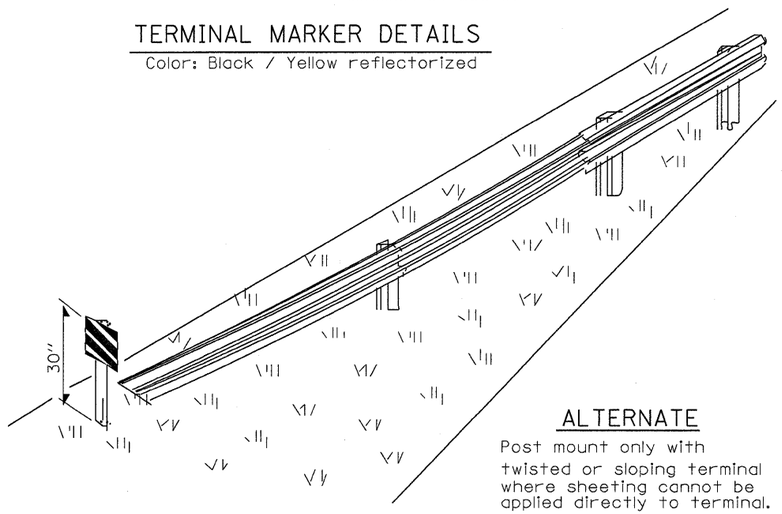
LEFT RIGHT

DIMENSION	CASE I *	CASE II
a	15	18
b	20	16

*Minimum of 300 in^2

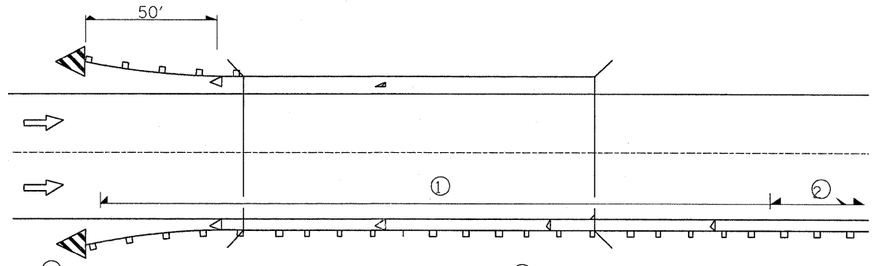
TERMINAL MARKER DETAILS

Color: Black / Yellow reflectorized



ALTERNATE

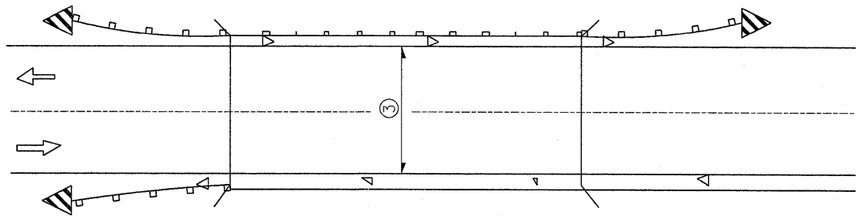
Post mount only with twisted or sloping terminal where sheeting cannot be applied directly to terminal.



① Spacing 80 ft max. for first 400 ft or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).

② After 400 ft, transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the pavement is less than 24" wider than the pavement approaching the bridge.

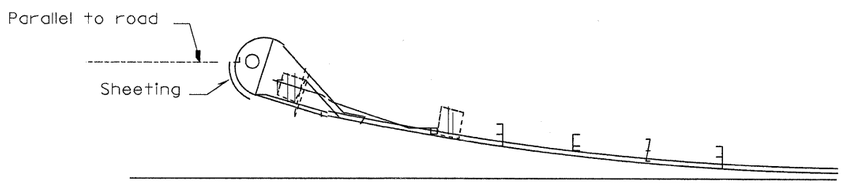
◁ Monodirectional silver

◀ Monodirectional amber

◀ Terminal Marker - Black/Yellow Left or Right as appropriate

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTIORS



SHEETING POSITION: CASE II

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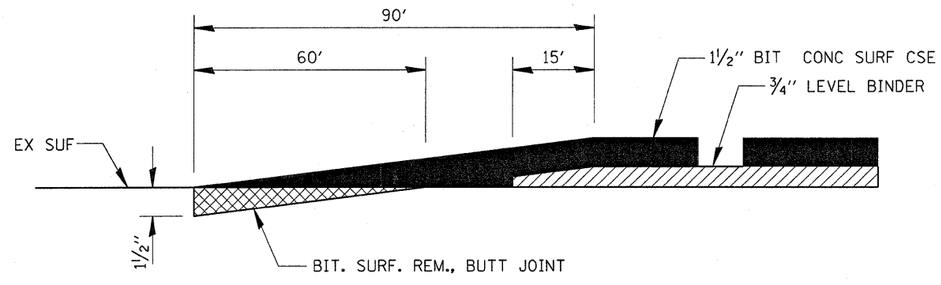
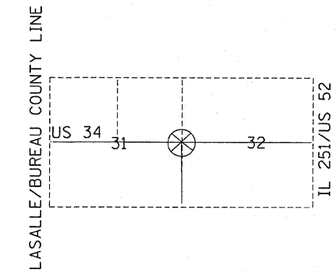
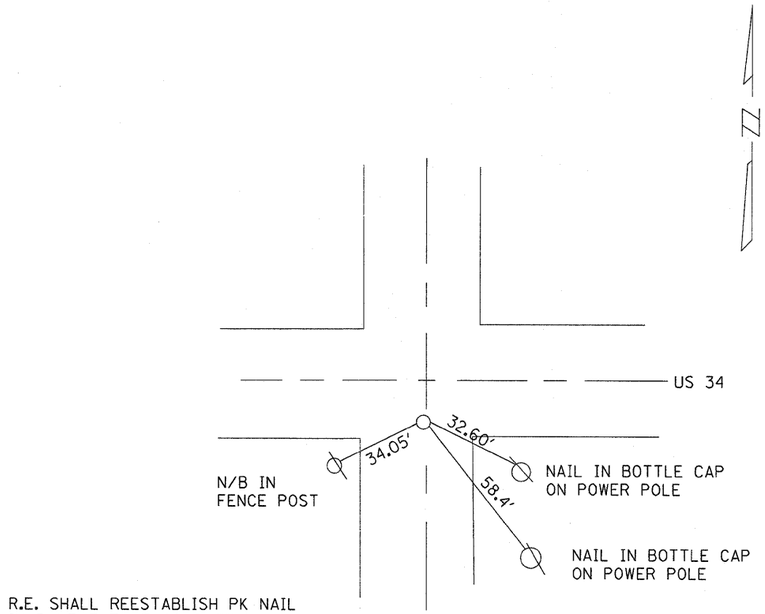
	PLOT SCALE = 50.0000 ' / IN.	DRAWN - ---	REVISED - ---			587	(22)I & I-1	LASALLE	31	23
	PLOT DATE = Oct 17, 2008 - 07:40:40 AM	CHECKED - ---	REVISED - ---					CONTRACT NO. 66835		
		DATE - ---------	REVISED - ---		SCALE: ---------- SHEET NO. __ OF ___ SHEETS STA. ---------- TO STA. ----------	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



BUTT JOINT DETAIL AT PROJECT LIMITS





TIE POINT DETAIL

LOCATED 0.9 MILES WEST OF IL 251

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

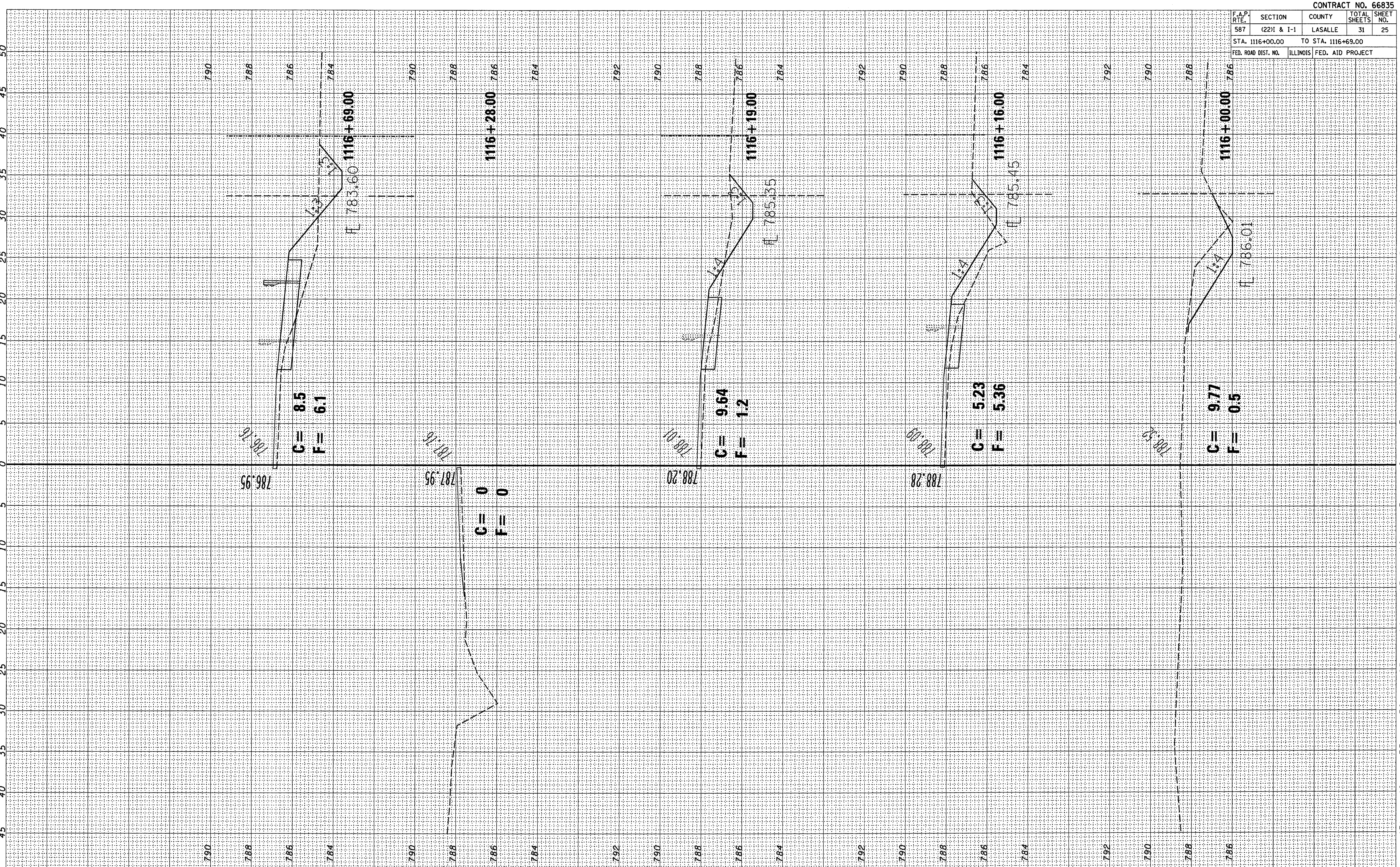
DETAILS

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	24
		CONTRACT NO. 66835		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 66835

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	25
STA. 1116+00.00 TO STA. 1116+69.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



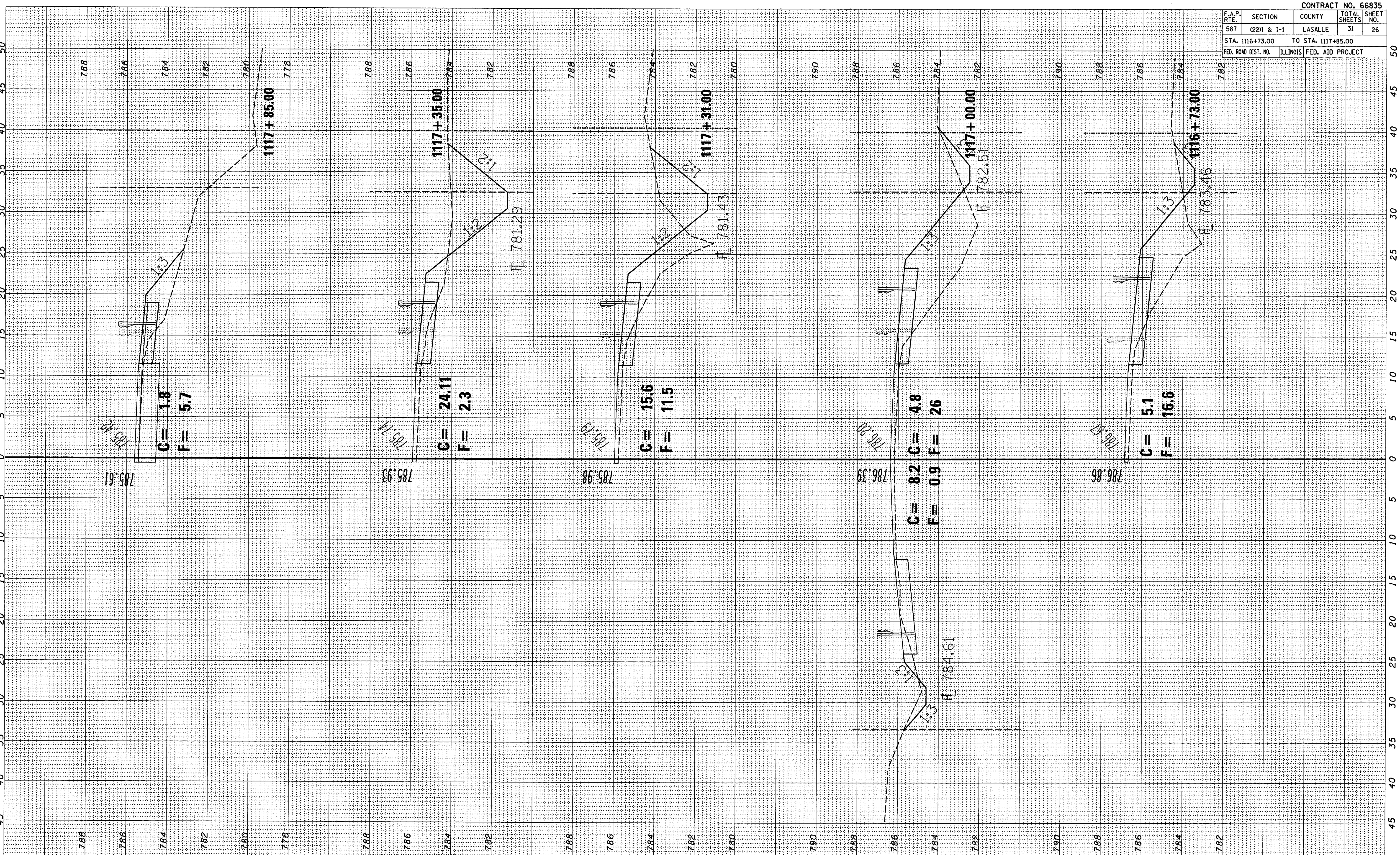
EX 050–2244 / PR SN 050–2051

CONTRACT NO. 66835

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	26

STA. 1116+73.00 TO STA. 1117+85.00

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



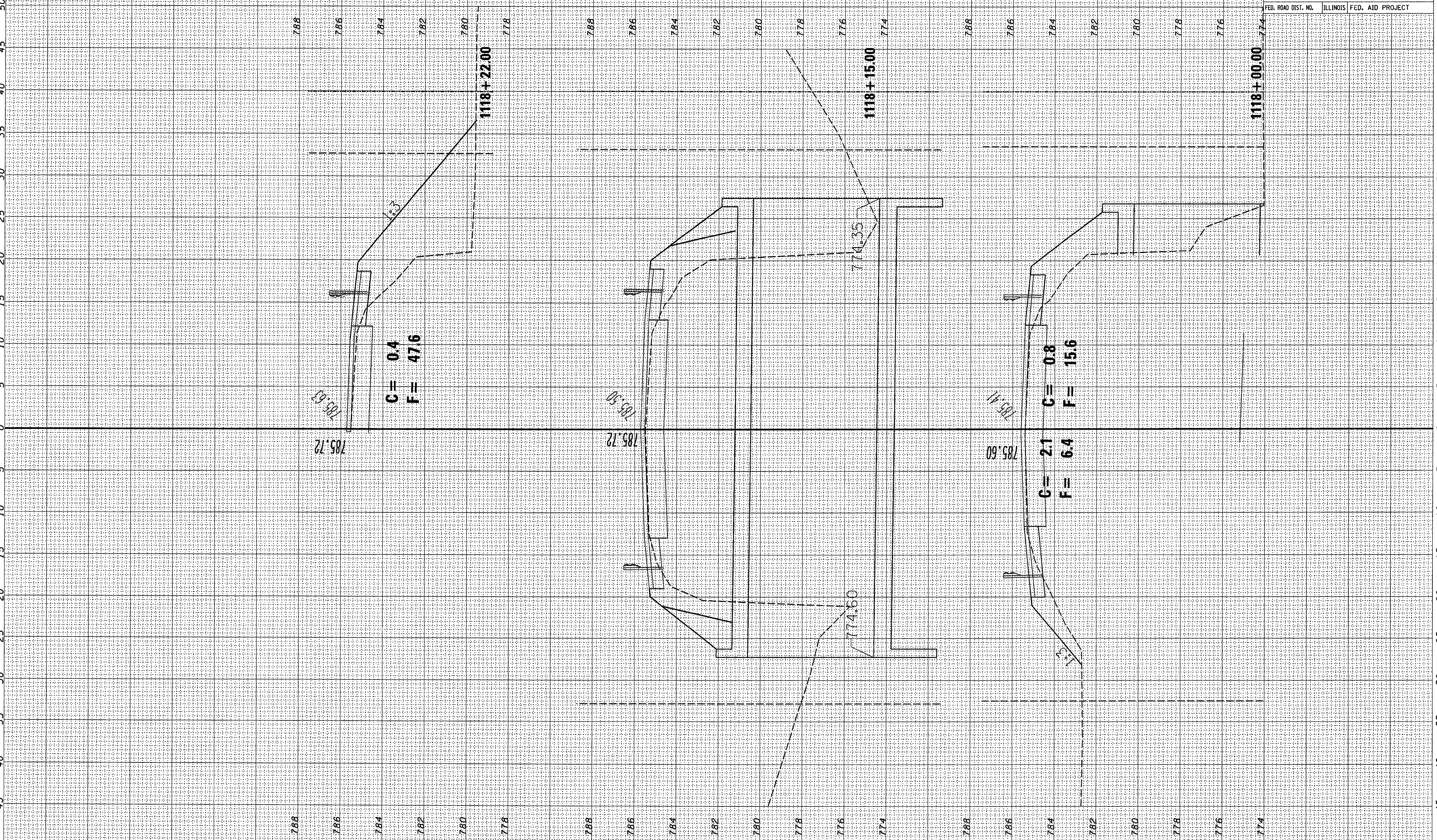
EX 050–2244 / PR SN 050–2051

CONTRACT NO. 66835

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	27

STA. 1118+00.00 TO STA. 1118+22.00

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



EX 050-2244 / PR SN 050-2051

DAT 9:26:43 AM
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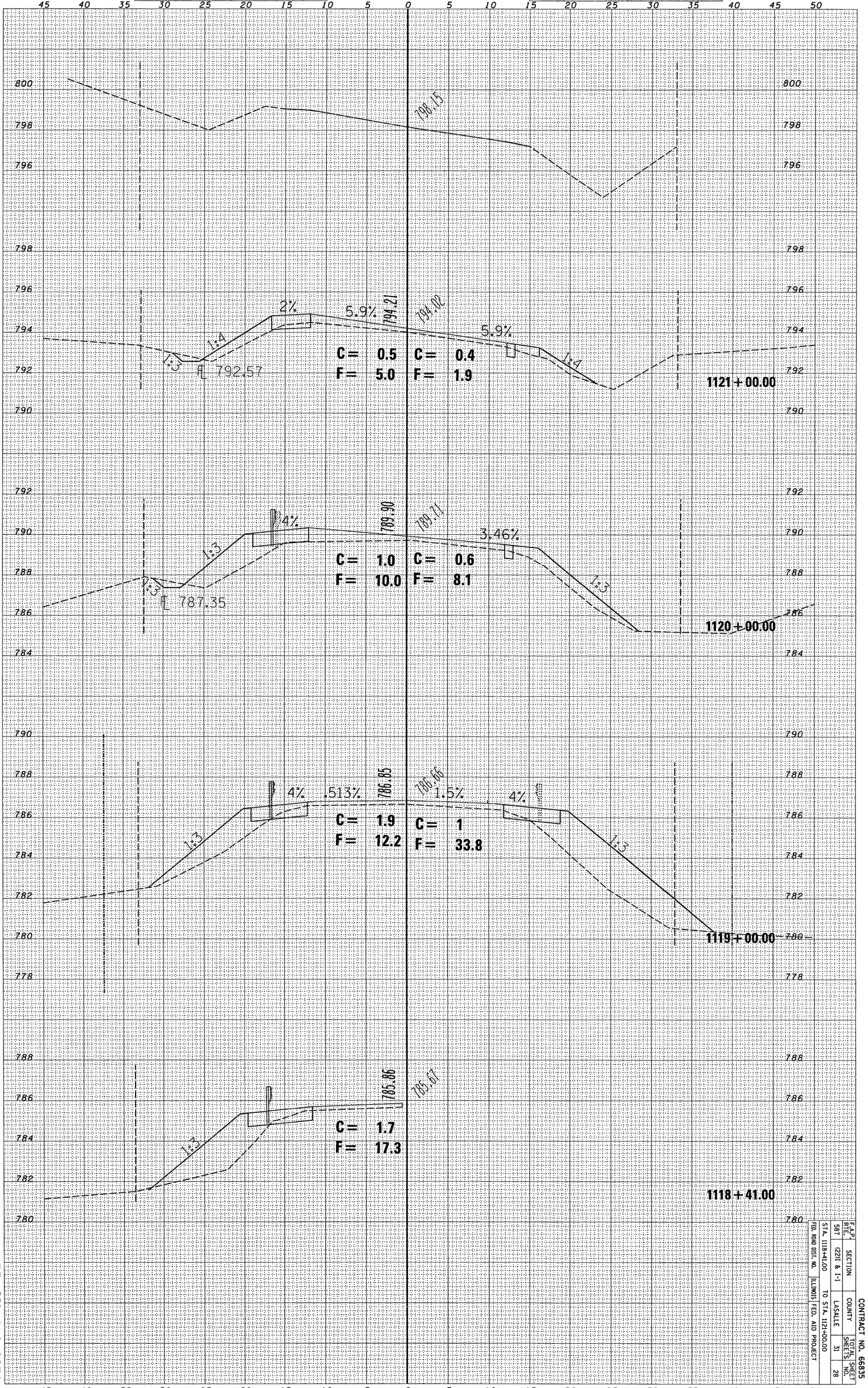
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CH.		

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



EX 050-2244 / PR SN 050-2051

CONTRACT NO. 66835

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
STA. 1118+41.00	TO STA. 1121+00.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)1 & I-1	LASALLE	31	28

DAT 10:27:43 AM
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ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

770 768 766 764 762

766.4 766.24

C= 6.52 C= 14.0
F= 8.4 F= 1.4

1:3 1:2 1:3 1:2

℄ 762.95 ℄ 762.71

1174+97.00

766.53 766.34

C= 14.4
F= 2.2

1:3 1:3

℄ 762.91

1174+81.00

766.58 766.39

C= 8.4
F= 11.1

1:3 1:3

℄ 762.98

1174+77.00

767.24 767.05

C= 7.5 C= 8.9
F= 7.0 F= 16.3

1:3 1:4 1:3 1:3

℄ 763.92 ℄ 763.92

1173+97.00

772 770 768 766 764 762

768.37 768.18

C= 8.32 C= 14.6
F= 4.8 F= 9.1

1:3 1:3 1:4 1:3

℄ 764.95 ℄ 765.21

1172+97.00

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

1 OF 3 EX SN 050-2545 / PR 050-2052

CONTRACT NO. 66835

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
STA. 1172+97.00	TO STA. 1174+97.00	

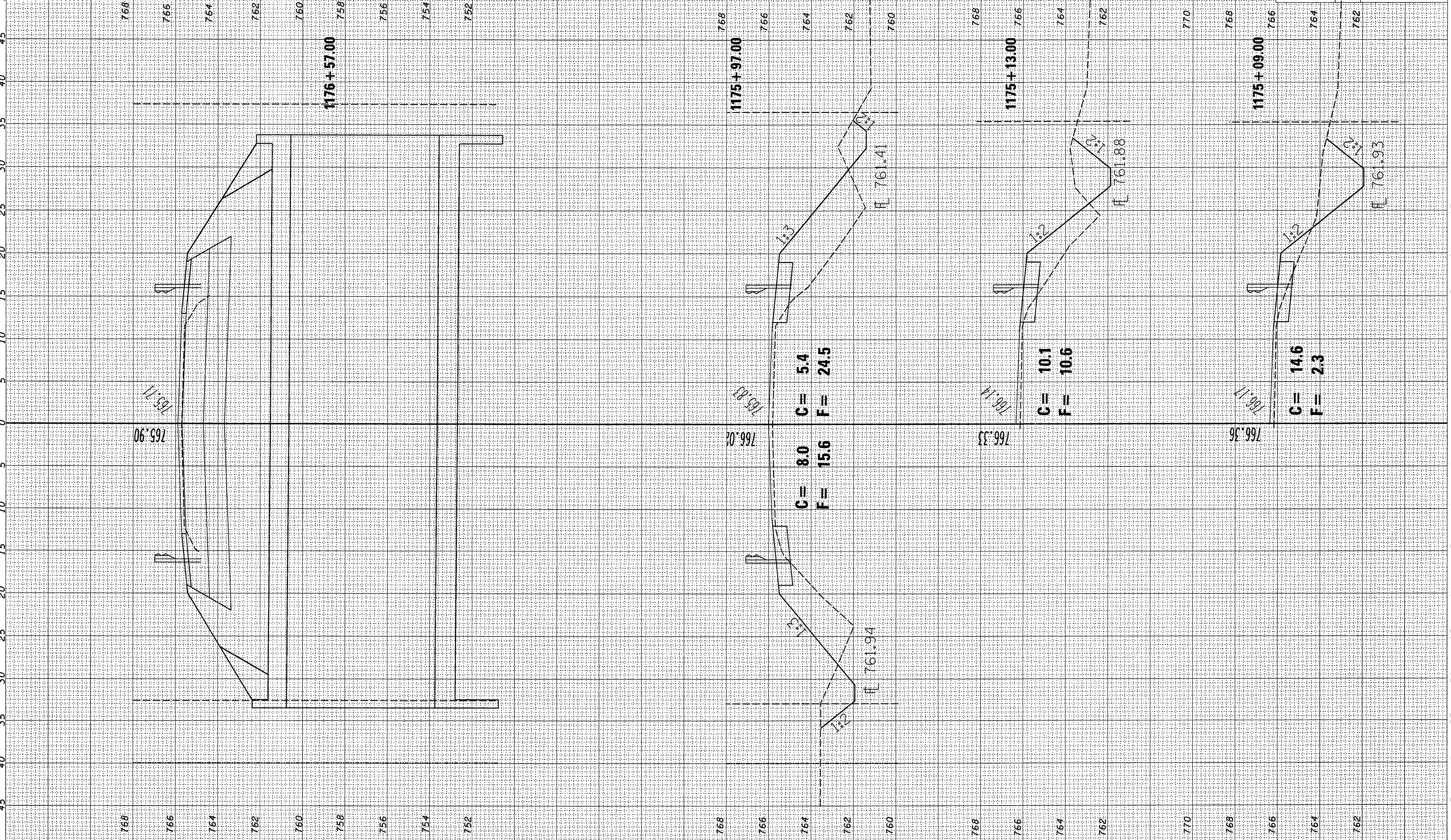
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)1 & 1-1	LASALLE	31	29

CONTRACT NO. 66835

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(22)I & I-1	LASALLE	31	30

STA. 1175+09.00 TO STA. 1176+57.00

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



EX SN 050–2545 / PR 050–2052

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

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

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770 768 766 764 762 760 758 756 754 752

767.17 767.17

C = 0.0
F = 0.0

1179+97.00

766.72 766.93

1:3 1:2 1:3 1:3

C = 10.38 C = 4.4
F = 15.2 F = 10.4

℄ 763.45 ℄ 762.76

1178+97.00

766.12 765.93

1:3 1:2 1:3 1:3

C = 8.96 C = 5.4
F = 11.3 F = 17.6

℄ 762.45 ℄ 762.01

1177+97.00

765.86 765.67

1:3 1:2

C = 11.2 C = 0.96
F = 15.4 F = 28.3

℄ 761.45

1176+97.00

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

3 OF 3 EX SN 050-2545 / PR 050-2052

CONTRACT NO. 66835

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	I-221 & I-1	LASALLE	31	31

STA. 1176+97.00 TO STA. 1179+97.00