

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAS ROUTE 1249 (US 34)
SECTION (23 BR)BR
PROJECT BRS-1249(001)
STRUCTURE REPLACEMENT
BUREAU COUNTY

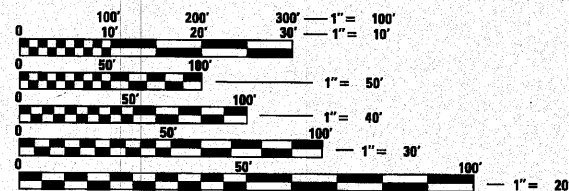
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F.A.S. RTE. 1249	SECTION 23 BR)BR	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 1
ILLINOIS CONTRACT NO. 66909				

INDEX OF SHEETS

- 1 COVER SHEET
- 2 HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5-6 TYPICAL SECTIONS
- 7-8 SCHEDULE OF QUANTITIES
- 9 ALIGNMENT, SURVEY TIES AND BENCHMARKS
- 10-11 PLAN & PROFILE SHEETS
- 12 DETOUR PLAN
- 13 EROSION CONTROL PLANS
- 14-30 BRIDGE PLANS S.N. 006-0182 (PR.)/006-0146 (EX.)
- 31-34 DETAILS
- 35-39 CROSS SECTIONS

FOR LIST OF STANDARDS, SEE SHEET NO. 2

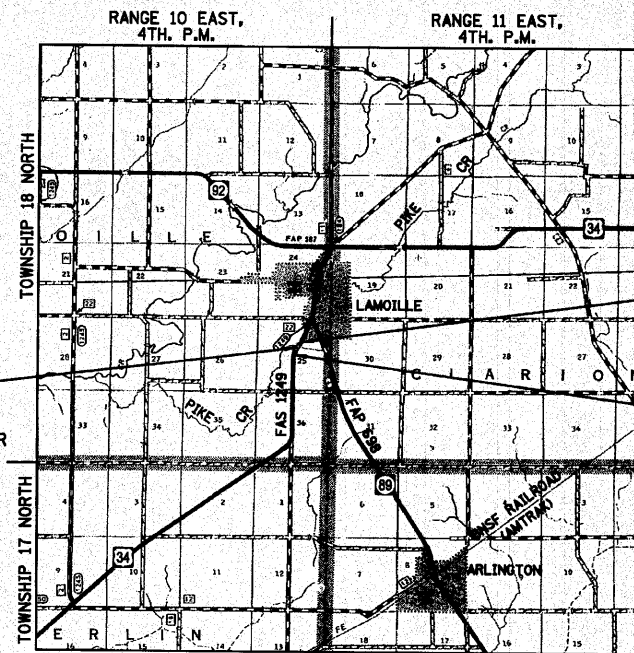


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DISTRICT 3 NO. (815) 434-6131
 PROJECT ENGINEER: CRAIG REED
 UNIT CHIEF: MARK JONES
 CONTRACT NO. 66909

FARNSWORTH GROUP, INC.



STATION 729+07.67
 S.N. 006-0182 (PR.)/006-0146 (EX.)
 105'-0" LONG THREE SPAN SLAB BRIDGE OVER
 PIKE CREEK (STRUCTURE REPLACEMENT)

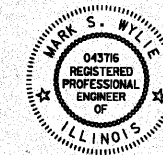
IMPROVEMENT ENDS
 STA 734+27.50

IMPROVEMENT BEGINS
 STA 724+50.00

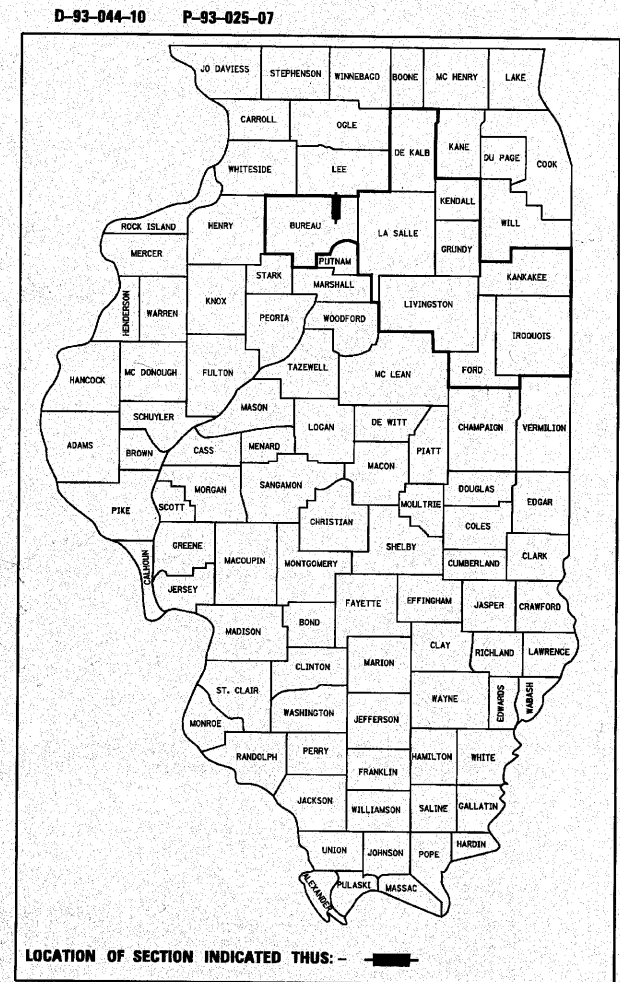
LOCATION MAP



GROSS LENGTH = 977.5 FT. = 0.19 MILE
 NET LENGTH = 977.5 FT. = 0.19 MILE



Mark S. Wylie Date 10/9/10
 MARK S. WYLIE
 ILLINOIS PROFESSIONAL ENGINEER
 NO. 062-043716
 EXPIRATION 11/30/11



FUNCTIONAL CLASSIFICATION
RURAL MAJOR COLLECTOR
(CLASS III TRUCK ROUTE)
 2011 ADT = 1320
 P.V. = 90% S.U. = 7% M.U. = 3%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *October 21* 2010
George R. Yarn
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 10 2010
Scott E. Stitt P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

December 10 2010
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

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 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 LENGTH.

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 SEEDDED WILL BE DETERMINED BY THE ENGINEER.

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

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFER 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
BIT MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375	GAL / SQ YD
BITUMINOUS MATERIALS (PRIME COAT)	0.08	GAL / SQ YD
FOR ADDITIONAL HMA LIFTS "FOG COAT"	0.05	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

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

1. VERIZON - BURIED/OVERHEAD TELEPHONE

COMMITMENTS:

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

1. THE STATE'S RESIDENT ENGINEER SHALL COORDINATE WITH THE BUREAU COUNTY HIGHWAY DEPARTMENT AND THE LAMOILLE TOWNSHIP HIGHWAY DEPARTMENT TO PERFORM A VIDEO INSPECTION OF COUNTY ROAD 2500 N BEFORE AND AFTER THE DETOUR IS IN EFFECT, TO DOCUMENT THE ROAD CONDITION AND TO DETERMINE IF ANY DAMAGE TO THE LOCAL SYSTEM CAN BE ATTRIBUTED TO THE STATE MARKED DETOUR BEING IN PLACE.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	NAME PLATE FOR BRIDGES
515001-03	METAL END SECTION FOR PIPE CULVERTS
542401-01	CONCRETE HEADWALL FOR PIPE DRAIN
601101-01	BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
630001-09	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 2' (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

REVIEWED BY: Don Bonnil
DISTRICT STUDIES & PLANS ENGINEER

DATE: October 20, 2010

EXAMINED BY: Herbert K. Long, Jr.
DISTRICT CONSTRUCTION ENGINEER

Wayne J. Phillips
DISTRICT MATERIALS ENGINEER

Bruce G. Harker
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = *USER*	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL		DRAWN - JJO	REVISED -			1249	(23 BRIBR)	BUREAU	39	2	
		CHECKED - MSW	REVISED -			CONTRACT NO. 66909					
		DATE - 10/08/10	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

80% FEDERAL
20% STATE

CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY 0004	STRUCTURE NO. 006-0146 (EX) 006-0182 (PR) 0011
20200100	EARTH EXCAVATION	CU YD	825	825	
20300100	CHANNEL EXCAVATION	CU YD	735	735	
20400800	FURNISHED EXCAVATION	CU YD	530	530	
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	72		72
* 25000300	SEEDING, CLASS 3	ACRE	1.25	1.25	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	114	114	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	114	114	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	114	114	
* 25100630	EROSION CONTROL BLANKET	SO YD	5,781	5,781	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	375	375	
28000305	TEMPORARY DITCH CHECKS	FOOT	150	150	
28000400	PERIMETER EROSION BARRIER	FOOT	150	150	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28100109	STONE RIPRAP, CLASS A5	SO YD	1,340		1,340
28200200	FILTER FABRIC	SO YD	1,340		1,340
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	36	36	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	451	451	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	95	95	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	160	160	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	181	181	
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SO YD	38	38	

* SPECIALTY ITEM

80% FEDERAL
20% STATE

CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY 0004	STRUCTURE NO. 006-0146 (EX) 006-0182 (PR) 0011
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	23	23	
44000100	PAVEMENT REMOVAL	SO YD	138	138	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	252	252	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	580	580	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	290	290	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	914	914	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	174		174
50300225	CONCRETE STRUCTURES	CU YD	149.0		149.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	353.3		353.3
50300260	BRIDGE DECK GROOVING	SO YD	546		546
50300280	CONCRETE ENCASEMENT	CU YD	8.6		8.6
50300300	PROTECTIVE COAT	SO YD	703		703
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	81,020		81,020
51200958	FURNISHING METAL SHELL PILES 14"x0.250"	FOOT	1,432		1,432
51202305	DRIVING PILES	FOOT	1,432		1,432
51203200	TEST PILE METAL SHELLS	EACH	2		2
51204650	PILE SHOES	EACH	18		18
51500100	NAME PLATES	EACH	1		1
54213447	END SECTIONS 12"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	40		40

* SPECIALTY ITEM

FILE NAME =	USER NAME = schwankeg	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.S. RTE. 1249	SECTION (23 BR)BR	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 3	
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	PLOT DATE = Oct 21, 2010 - 04:28:43 PM	DATE - 10/08/10	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		REVISED: 10/21/10 IDOT	

CODE NUMBER	ITEM	UNIT	TOTAL	80% FEDERAL 20% STATE	
				ROADWAY 0004	STRUCTURE NO. 006-0146 (EX) 006-0182 (PR) 0011
60100945	PIPE DRAINS 12"	FOOT	55	55	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	128		128
60900150	TYPE B INLET BOX, STANDARD 609006 (SPECIAL)	EACH	2	2	
60900515	CONCRETE THRUST BLOCKS	EACH	2	2	
• 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	525	525	
• 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
• 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	932	932	
63500105	DELINEATORS	EACH	12	12	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	
70101900	TRAFFIC CONTROL AND PROTECTION (DETOUR 1)	L SUM	1	1	
• 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	2,934	2,934	
• 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	250	250	
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14	
• 78200410	GUARDRAIL MARKERS, TYPE A	EACH	18	18	
• 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14	14	
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1		1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1		1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	

• SPECIALTY ITEM

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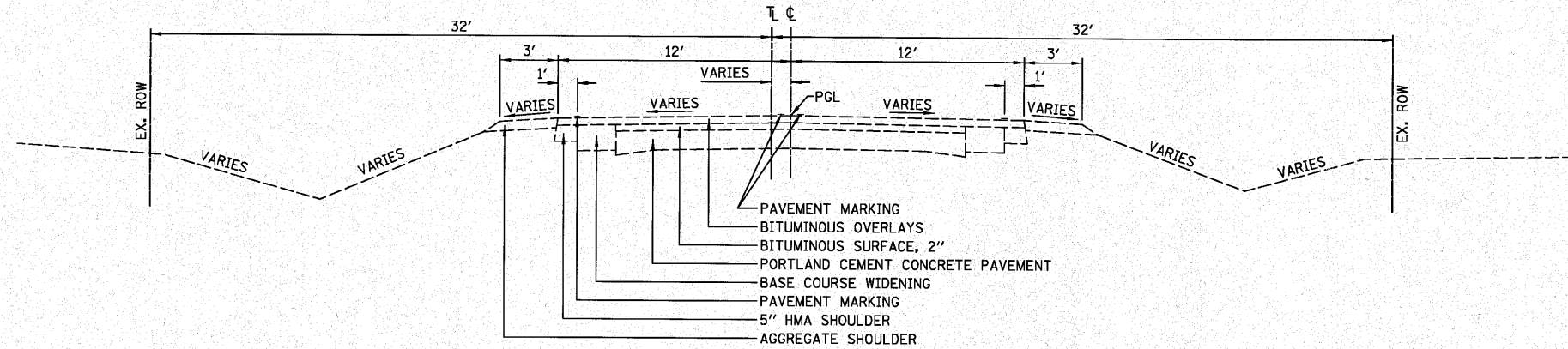
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BR)BR	BUREAU	39	4
FED. ROAD DIST. NO.			CONTRACT NO. 66909	
ILLINOIS FED. AID PROJECT			REVISED: 10/21/10 IDOT	

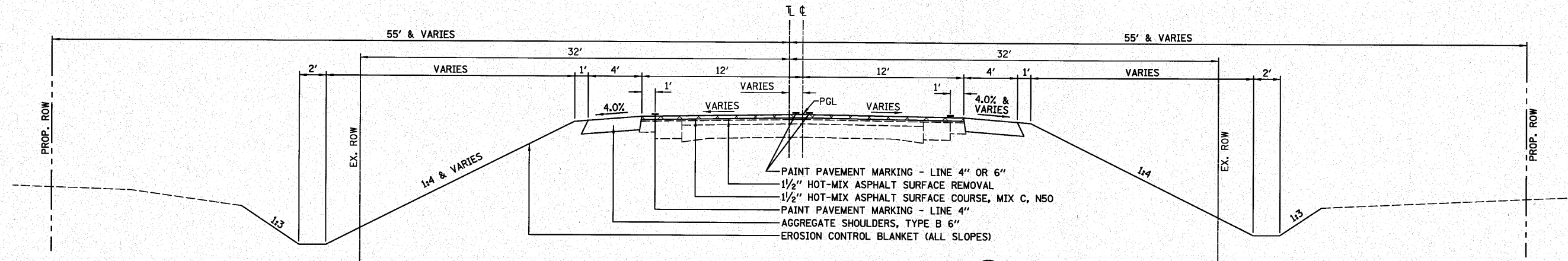
FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX



EXISTING TYPICAL CROSS SECTION

F.A.S. RTE. 1249 (US 34)

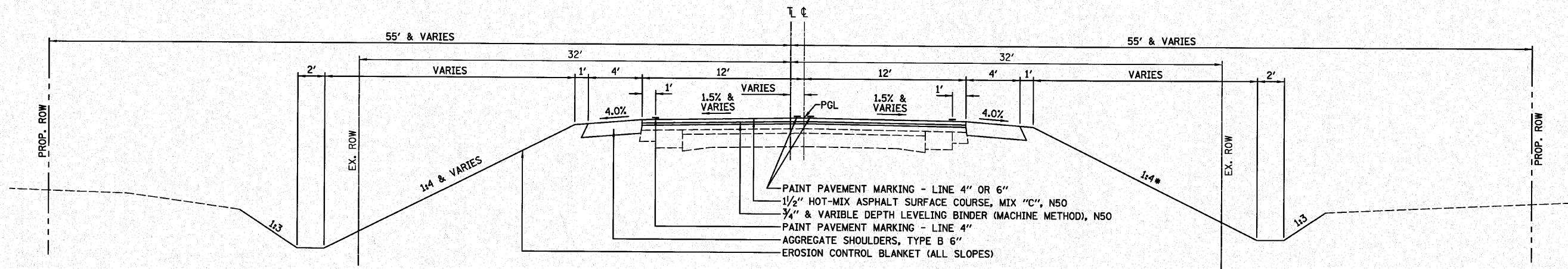


PROPOSED TYPICAL CROSS SECTION ①

F.A.S. RTE. 1249 (US 34)

STA 724+50.00 TO STA 725+48.45

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.S. RTE. 1249	SECTION (23 BR/BR)	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 5	
#FILE#	PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -					SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 66909		
	PLOT DATE = #DATE#	DATE - 10/08/10	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX													



PROPOSED TYPICAL CROSS SECTION (2)

F.A.S. RTE. 1249 (US 34)

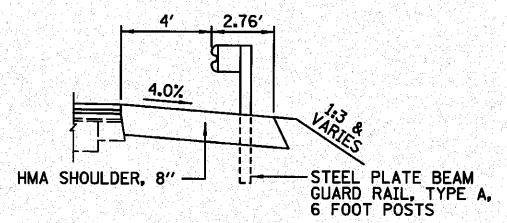
	HMA LEVEL BINDER	HMA SURFACE	HMA SHOULDERS	HMA BASE COURSE
PG GRADE **	PG64-22	PG64-22	PG58-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	2.0% @ N30	4.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 9.5	IL 19.0	IL 19.0
FRICTION AGGREGATE	-	MIXTURE C	-	-
DESITY TEST METHOD	SATISFACTION OF THE ENGINEER	CORES	CORES •	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 RAP EXCEEDS 20%, THE VIRGIN ASPHALT BINDER SHALL BE REDUCED BY ONE GRADE (I.E. 25% RAP WOULD REQUIRE A VIRGIN ASPHALT BINDER GRADE OF PG64-22 TO BE REDUCED TO PG58-22)

STA 725+48.45 TO STA 728+19.67
STA 729+99.67 TO STA 734+27.50

HOT-MIX ASPHALT SHOULDER, 8"
STA 725+48.45 RT TO STA 728+55.67 RT
STA 726+15.91 LT TO STA 728+55.67 LT
STA 729+59.67 RT TO STA 732+02.86 RT
STA 729+59.67 LT TO STA 732+65.36 LT

SEE STATE STANDARD 420401 BRIDGE
APPROACH PAVEMENT CONNECTOR
STA 728+19.67 TO STA 728+25.67
STA 729+89.67 TO STA 729+99.67



DETAIL AT GUARDRAIL

STA 726+34.42 RT TO STA 727+96.92 RT
STA 726+96.92 LT TO STA 727+96.92 LT
STA 730+17.86 LT TO STA 731+80.36 LT
STA 730+17.86 RT TO STA 731+17.86 RT

EARTHWORK				
LOCATION	EARTH EXCAVATION	TOTAL EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
STA 724+50 TO STA 734+27.50	825	620	1,150	-530
TOTAL	825	620	1,150	-530

CHANNEL EXCAVATION	
LOCATION	CU YD
STRUCTURE NO. 006-0182	735
TOTAL	735

EROSION CONTROL		
LOCATION	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
	FOOT	FOOT
STA 724+13 20' RT	5	
STA 724+15 21' LT	5	
STA 724+43 27' LT	5	
STA 724+73 31' LT	5	
STA 724+78 30' RT	5	
STA 725+01 36' LT	5	
STA 725+31 38' LT	5	
STA 725+45 35' RT	5	
STA 725+57 41' LT	5	
STA 725+87 44' LT	5	
STA 726+13 38' RT	5	
STA 726+50 45' LT	5	
STA 726+79 39' RT	5	
STA 727+15 47' LT	5	
STA 727+44 40' RT	5	
STA 727+50 55' RT TO STA 728+46 55' RT		96
STA 727+80 46' LT	5	
STA 728+09 43' RT	5	
STA 729+92 38' RT	5	
STA 730+15 41' LT	5	
STA 730+57 35' RT	5	
STA 730+80 37' LT	5	
STA 731+22 30' RT	5	
STA 731+45 34' LT	5	
STA 731+87 32' RT	5	
STA 732+10 35' LT	5	
STA 732+52 23' RT	5	
STA 732+75 26' LT	5	
STA 733+17 22' RT	5	
STA 733+82 32' LT TO STA 734+32 17' LT		54
STA 733+82 22' RT	5	
STA 734+46 20' RT	5	
TOTAL	150	150

SEEDING/FERTILIZING						
LOCATION	SEEDING, CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
	ACRE	POUND	POUND	POUND	SQ YD	POUND
STA 724+12 LT TO STA 728+56 LT	0.50	45	45	45	1,575	150
STA 724+10 RT TO STA 728+46 RT	0.25	23	23	23	1,485	75
STA 729+30 LT TO STA 734+27 LT	0.25	23	23	23	1,284	75
STA 729+70 RT TO STA 734+48 RT	0.25	23	23	23	1,437	75
TOTAL	1.25	114	114	114	5,781	375

PAVING MATERIALS									
LOCATION	BIT MATLS PRIME COAT	LEVELING BINDER (MACHINE METHOD), N50	HMA SURF CSE, MIX "C", N50	BR APPR PVT CON (FLX)	BR APPR PVT CON (PCC)	AGG SHLD, TYPE B 6"	HMA SHLD, 8"	AGG SURF CSE, TY B	
	GALLON	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD	TON	
STA 724+50 TO STA 728+25.67	130		85						
STA 724+50 LT TO STA 726+15.91 LT						74			
STA 724+50 RT TO STA 725+48.45 RT						44			
STA 725+48.45 TO STA 728+25.67		44							
STA 725+48.45 RT TO STA 728+55.67 RT	94						250		
STA 726+15.91 LT TO STA 728+55.67 LT	77						204		
STA 728+19.67 TO STA 728+25.67				23					
STA 729+89.67 TO STA 729+99.67					38				
STA 729+99.67 TO STA 734+27.50	148	51	96						
STA 729+59.67 LT TO STA 732+65.36 LT	95						252		
STA 729+59.67 RT TO STA 732+02.86 RT	78						208		
STA 732+02.86 RT TO STA 734+27.50 RT						100			
STA 732+65.36 LT TO STA 734+27.50 LT						72			
STA 733+70 LT								36	
TOTAL	451	95	181	23	38	290	914	36	

REMOVAL OF PAVING MATERIALS				
LOCATION	PAVEMENT REMOVAL	HMA SURFACE REMOVAL - BUTT JOINT	HMA SURFACE REMOVAL, VARIABLE DEPTH	HMA SURFACE REMOVAL, 1 1/2"
	SQ YD	SQ YD	SQ YD	SQ YD
STA 724+50 TO STA 725+48.45				252
STA 725+48.45 TO STA 726+08.45		160		
STA 728+19.67 TO STA 728+49.84	81			
STA 729+78.45 TO STA 729+99.67	57			
STA 732+10 TO STA 734+27.50			580	
TOTAL	138	160	580	252

DRAINAGE					
LOCATION	INLET AND PIPE PROTECTION	TY B INLET BOX, STANDARD 609006 (SPECIAL)	PIPE DRAINS 12"	CONCRETE THRUST BLOCKS	END SECTIONS 12"
	EACH	EACH	FOOT	EACH	EACH
STA 729+94.67 15' LT	1	1			
STA 729+94.67 15' LT TO STA 729+94.67 45' LT			30		
STA 729+94.67 45' LT				1	1
STA 729+94.67 15' RT	1	1			
STA 729+94.67 15' RT TO STA 729+94.67 40' RT			25		
STA 729+94.67 40' RT				1	1
TOTAL	2	2	55	2	2

GUARDRAIL				
LOCATION	GUARDRAIL REMOVAL	SPBGR, TYPE A, 6 FT POSTS	TRAF BAR TERM TY 6	TRAF BAR TERM TY 1 SPL FLR
	FOOT	FOOT	EACH	EACH
STA 725+78.90 RT TO STA 728+70.70 RT	292			
STA 725+84.10 RT TO STA 726+34.42 RT				1
STA 726+34.42 RT TO STA 727+96.92 RT		162.5		
STA 726+47.45 LT TO STA 726+96.92 LT				1
STA 726+92.80 LT TO STA 728+70.80 LT	172			
STA 726+96.92 LT TO STA 727+96.92 LT		100		
STA 727+96.92 RT TO STA 728+40.67 RT			1	
STA 727+96.92 LT TO STA 728+40.67 LT			1	
STA 729+57.50 LT TO STA 732+46.60 LT	290			
STA 729+57.50 RT TO STA 731+35.10 RT	178			
STA 729+74.11 LT TO STA 730+17.86 LT			1	
STA 729+74.11 RT TO STA 730+17.86 RT			1	
STA 730+17.86 LT TO STA 731+80.36 LT		162.5		
STA 730+17.86 RT TO STA 731+17.86 RT		100		
STA 731+17.86 RT TO STA 731+67.86 RT				1
STA 731+80.36 LT TO STA 732+30.36 LT				1
TOTAL	932	525	4	4

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	
LOCATION	EACH
STA 724+00 32' LT	1
STA 724+00 32' RT	1
STA 725+00 55' LT	1
STA 725+00 55' RT	1
STA 732+00 55' LT	1
STA 732+00 55' RT	1
STA 733+00 32' LT	1
STA 733+00 32' RT	1
TOTAL	8

EPOXY PAVEMENT MARKING - LINE		
LOCATION	4"	6"
	FOOT	FOOT
STA 724+50 TO STA 734+27.50	978	250
STA 724+50 LT TO STA 734+27.50 LT	978	
STA 724+50 RT TO STA 734+27.50 RT	978	
TOTAL	2,934	250

REFLECTORS/MARKERS					
LOCATION	DELINEATORS	GUARDRAIL MARKERS	TERMINAL MARKER - DIRECT APPLIED	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS
	EACH	EACH	EACH	EACH	EACH
STA 724+50 TO STA 734+27.50				14	14
STA 724+50 LT TO STA 734+27.50 LT	6				
STA 724+50 RT TO STA 734+27.50 RT	6				
STA 725+84.10 RT			1		
STA 725+84.10 RT TO STA 728+40.67 RT		5			
STA 726+47.45 LT			1		
STA 726+47.45 LT TO STA 728+40.67 LT		4			
STA 729+74.11 LT TO STA 732+30.36 LT		5			
STA 729+74.11 RT TO STA 731+67.86 RT		4			
STA 731+67.86 RT			1		
STA 732+30.36 LT			1		
TOTAL	12	18	4	14	14

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#FILE#		DRAWN - JJO	REVISED -
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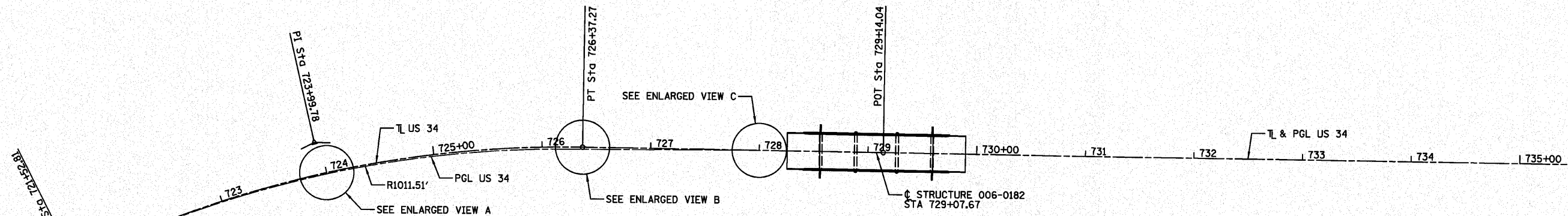
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

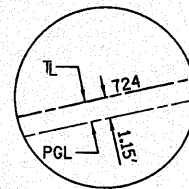
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BR/BR	BUREAU	39	8
CONTRACT NO. 66909				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FARNSWORTH GROUP, INC.

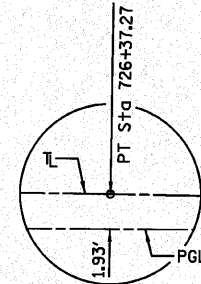
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX



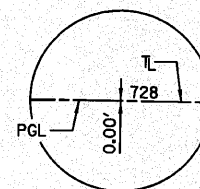
CURVE DATA
 PI STA. = 723+99.78
 $\Delta = 27^\circ 26' 30.75''$ (RT)
 $D = 5^\circ 39' 52''$
 $R = 1,011.51'$
 $T = 246.97'$
 $L = 484.46'$
 $E = 29.71'$
 $\theta = 5.9\%$
 $T.R. = 36.1'$
 $S.E. RUN = 142.0'$
 $P.C. STA = 721+52.81$
 $P.T. STA = 726+37.27$



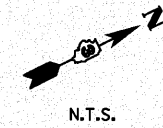
ENLARGED VIEW A



ENLARGED VIEW B

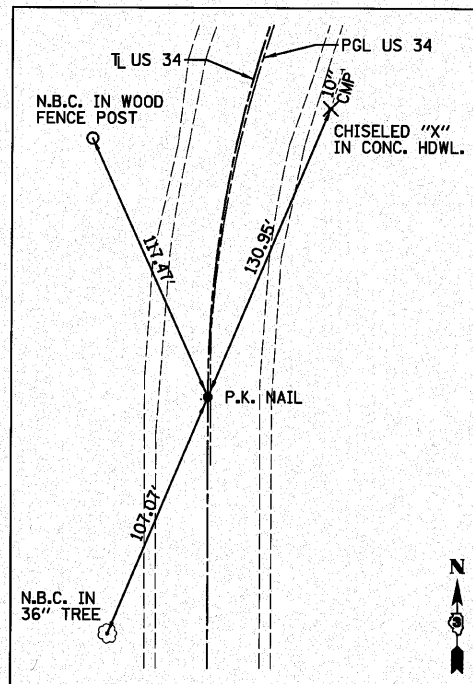


ENLARGED VIEW C

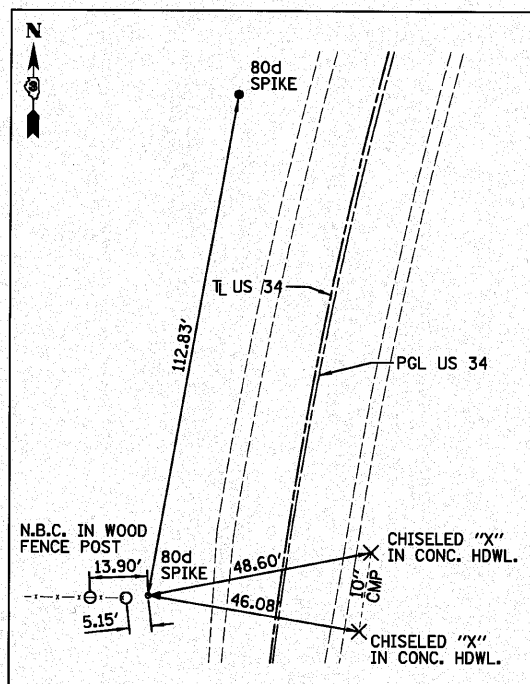


BENCHMARK #1
 STA 729+58, 16' LT
 BRASS DISK TOP OF
 N.W. WINGWALL
 ELEV=764.89

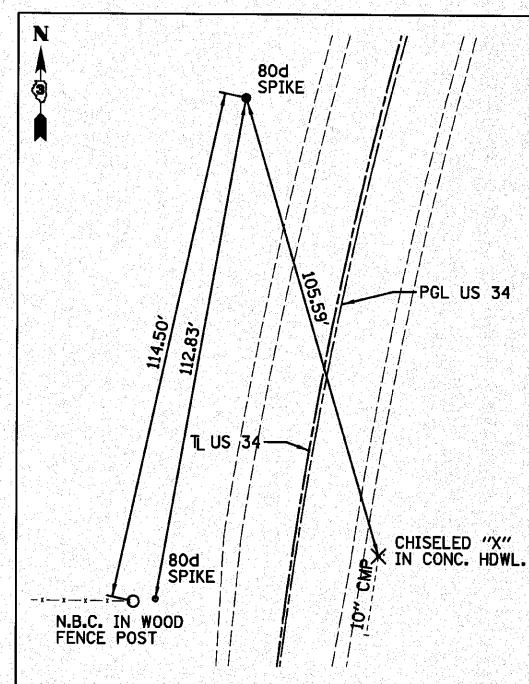
BENCHMARK #2
 STA 730+63, 29' LT
 RAILROAD SPIKE IN
 POWER POLE
 ELEV=763.30



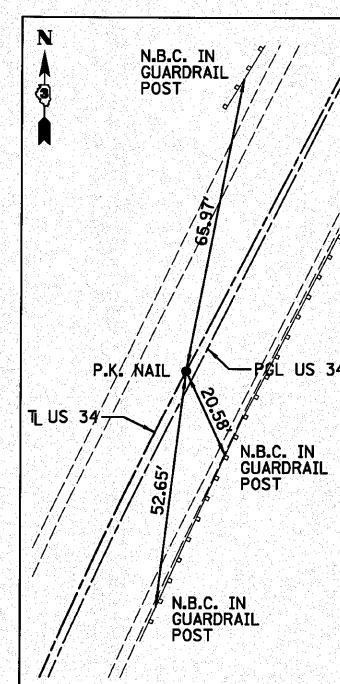
US 34
 STA 721+52.81 (P.C.)
 $N = 1767682.422$
 $E = 2537774.962$



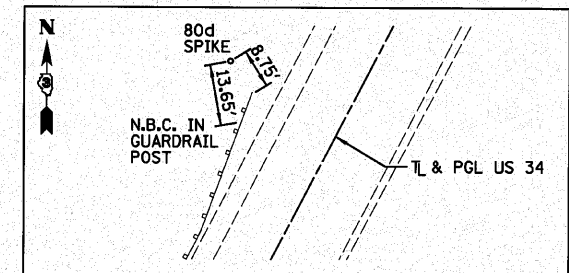
CONTROL POINT #540
 STA 722+85.33, 28.57' LT
 $N = 1767818.283$
 $E = 2537755.230$
 ELEV = 769.446



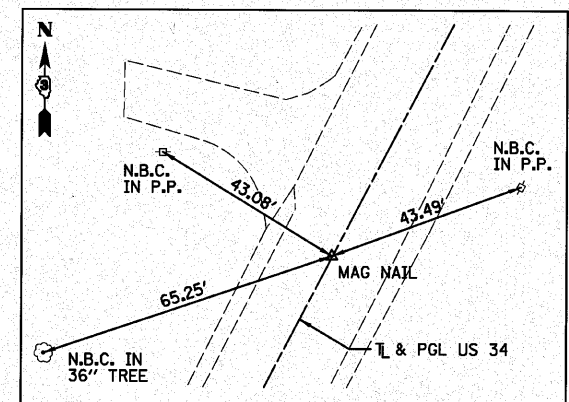
US 34
 STA 723+99.78 (P.I.)
 $N = 1767929.394$
 $E = 2537774.822$



US 34
 STA 726+37.27 (P.T.)
 $N = 1768148.640$
 $E = 2537888.514$



CONTROL POINT #541
 STA 732+50.53, 28.31' LT
 $N = 1768706.085$
 $E = 2538145.692$
 ELEV = 764.480



US 34
 STA 735+00.28, 0.17' LT.
 $N = 1768914.845$
 $E = 2538285.649$

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	PLOT DATE = #DATE#	DATE - 10/08/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, SURVEY TIES AND BENCHMARKS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BRBR)	BUREAU	39	9
CONTRACT NO. 66909				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

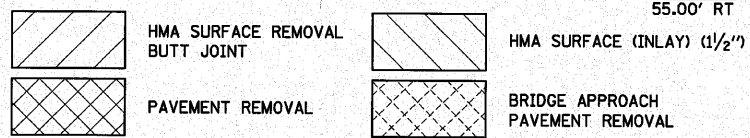
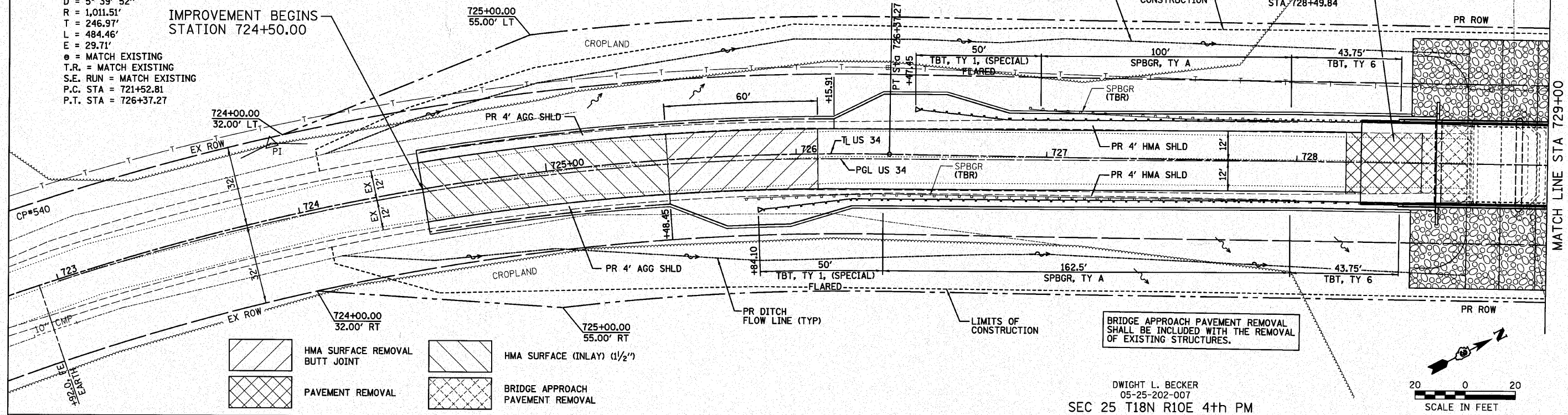
SEC 25 T18N R10E 4th PM

JOE L. PETERSON et ux
05-25-201-005

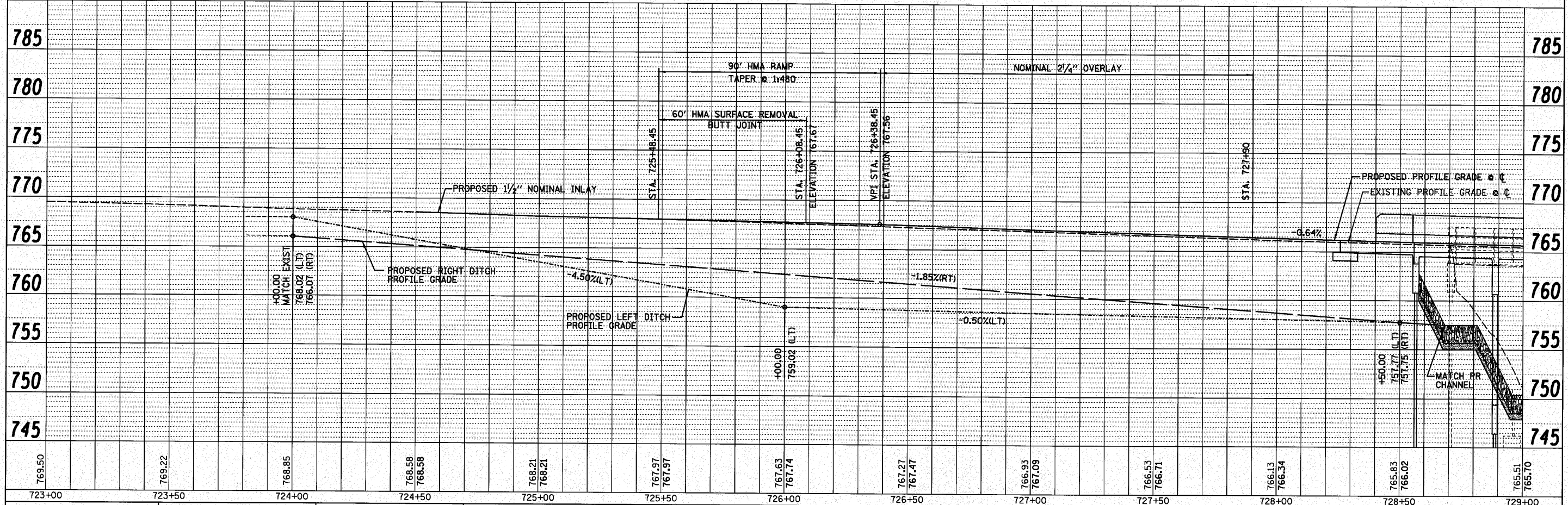
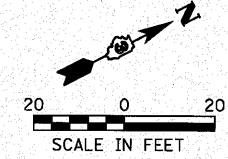
10X2"

CURVE DATA
 PI STA. = 723+99.78
 $\Delta = 27^\circ 26' 30.75''$ (RT)
 $D = 5^\circ 39' 52''$
 $R = 1,011.51'$
 $T = 246.97'$
 $L = 484.46'$
 $E = 29.71'$
 e = MATCH EXISTING
 T.R. = MATCH EXISTING
 S.E. RUN = MATCH EXISTING
 P.C. STA = 721+52.81
 P.T. STA = 726+37.27

IMPROVEMENT BEGINS
STATION 724+50.00



DWIGHT L. BECKER
05-25-202-007
SEC 25 T18N R10E 4th PM



723+00	723+50	724+00	724+50	725+00	725+50	726+00	726+50	727+00	727+50	728+00	728+50	729+00
769.50	769.22	768.85	768.58 768.58	768.21 768.21	767.97 767.97	767.63 767.74	767.27 767.47	766.93 767.09	766.53 766.71	766.13 766.34	765.83 766.02	765.51 765.70

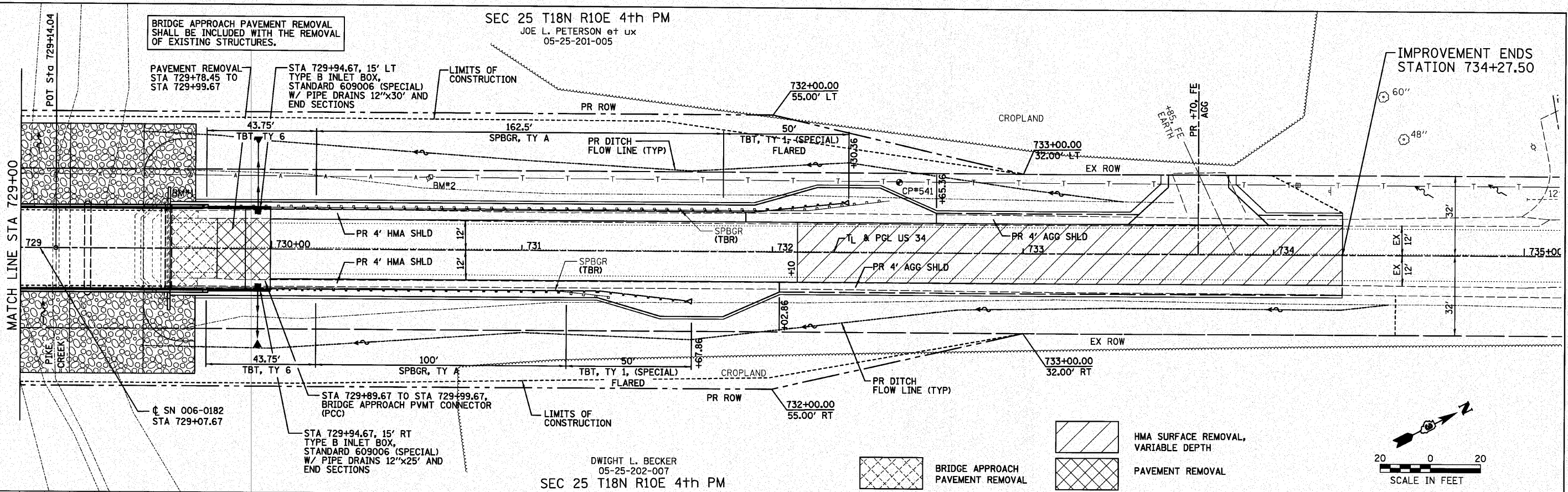
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#FILEL#	DRAWN - JJO	CHECKED - MSW	REVISED -			CONTRACT NO. 66909				
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PLOT DATE = #DATE#	DATE - 10/08/10	REVISIONS	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

SEC 25 T18N R10E 4th PM
 JOE L. PETERSON et ux
 05-25-201-005

BRIDGE APPROACH PAVEMENT REMOVAL SHALL BE INCLUDED WITH THE REMOVAL OF EXISTING STRUCTURES.

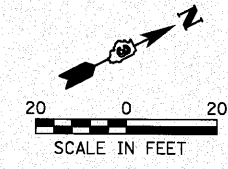
IMPROVEMENT ENDS STATION 734+27.50

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

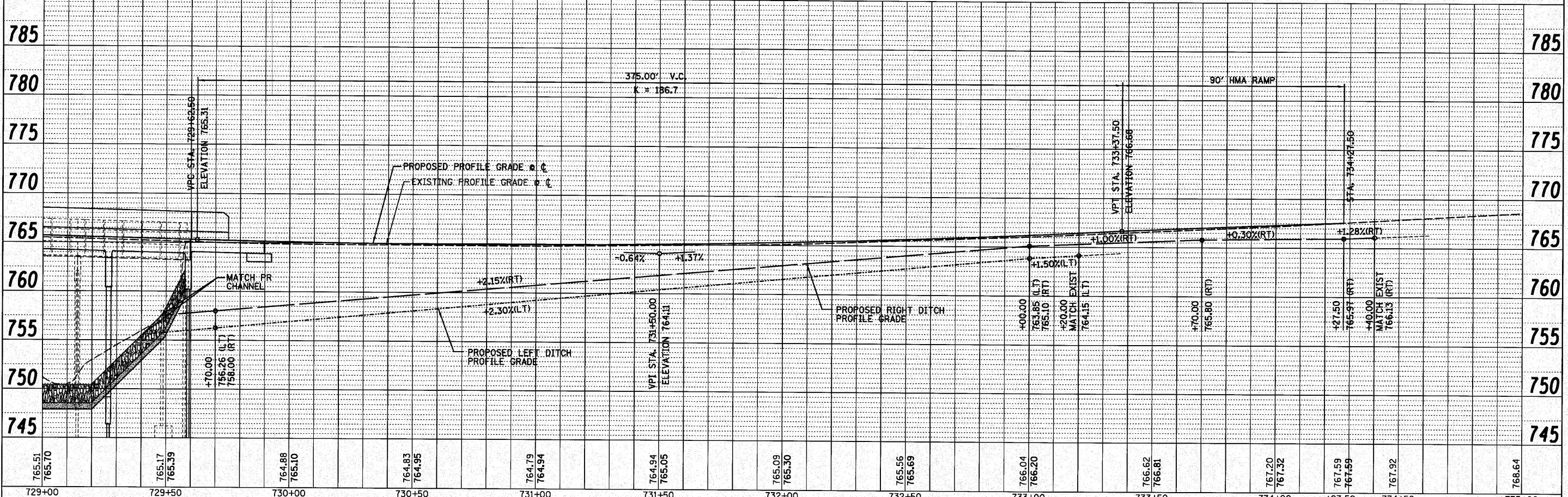


DWIGHT L. BECKER
 05-25-202-007
 SEC 25 T18N R10E 4th PM

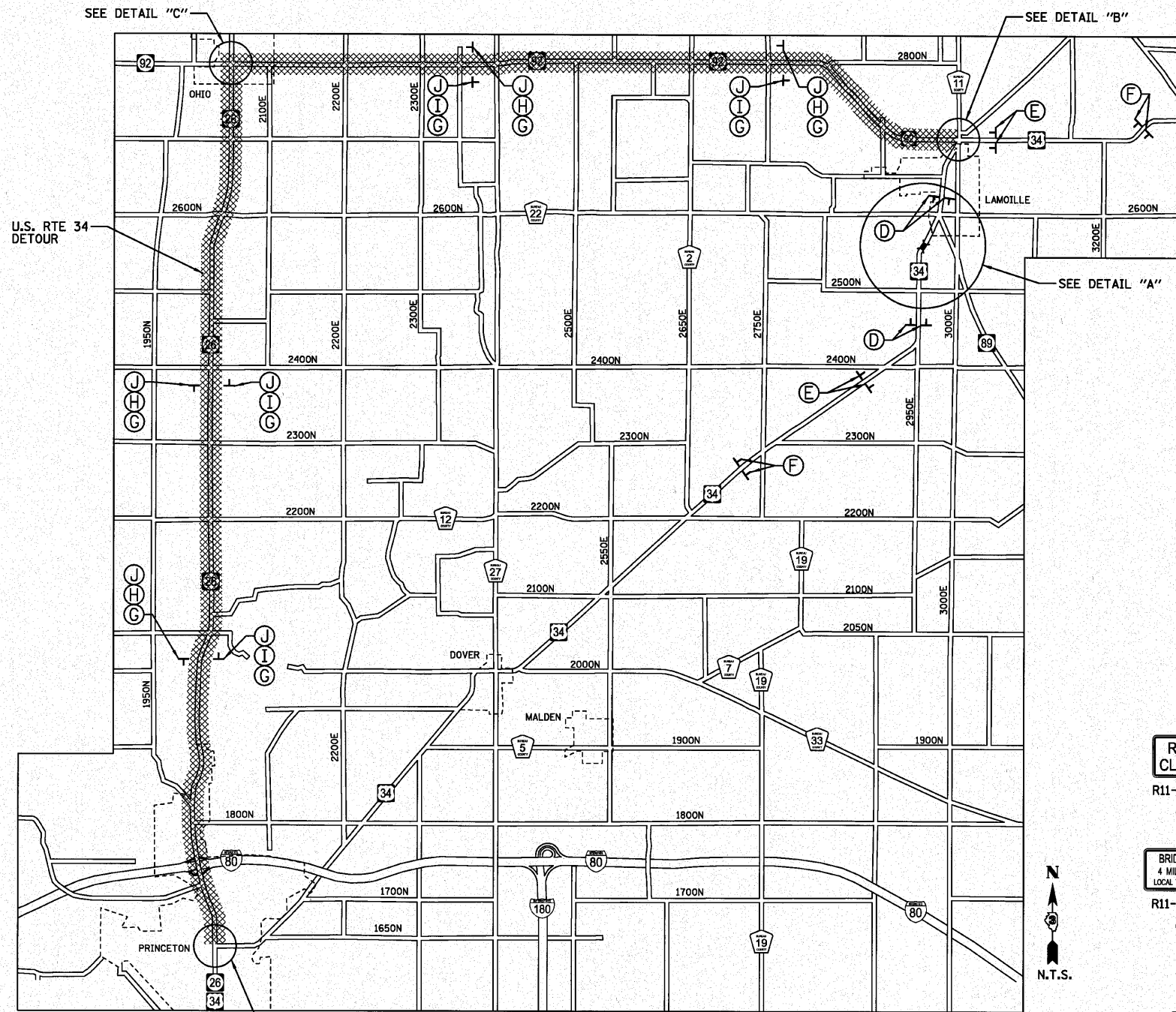
BRIDGE APPROACH PAVEMENT REMOVAL
 PAVEMENT REMOVAL
 HMA SURFACE REMOVAL, VARIABLE DEPTH
 PAVEMENT REMOVAL



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



729+00	729+50	730+00	730+50	731+00	731+50	732+00	732+50	733+00	733+50	734+00	734+50	735+00													
765.51	765.70	765.17	765.39	764.88	765.10	764.83	764.95	764.79	764.94	764.94	765.05	765.09	765.30	765.56	765.69	766.04	766.20	766.62	766.81	767.20	767.32	767.59	767.59	767.92	768.64



DETOUR MAP

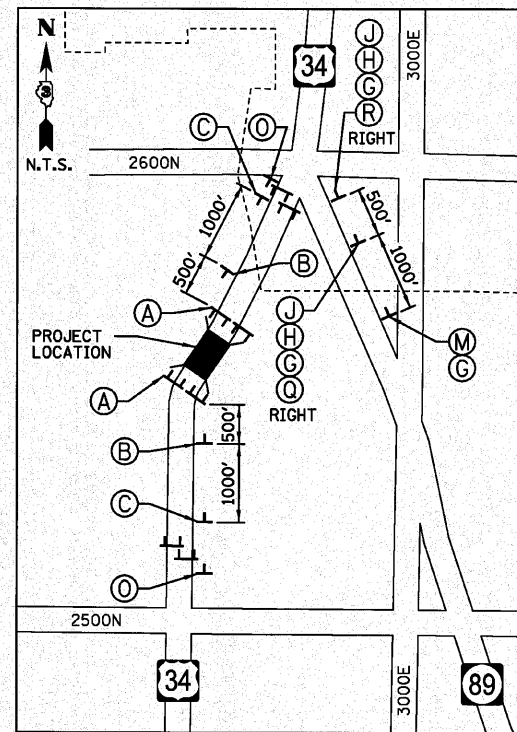
*TO BE PLACED WITH INTERSTATE IDENTIFICATION SIGNS, EXIT SIGNS AND US & ILLINOIS STATE ROUTE MARKERS.

NOTES:

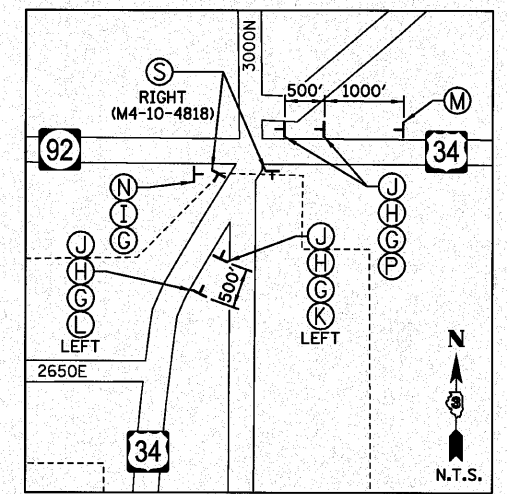
- 1.) ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
- 2.) ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
- 3.) LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
- 4.) WORK SHALL BE DONE IN ACCORDANCE WITH BLR 21, EXCEPT THAT ALL WARNING SIGNS SHALL BE 48"x48"
- 5.) TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, THE HIGHWAY STANDARDS AND SPECIAL PROVISIONS.
- 6.) COVER ANY SIGNS DENOTING NORTH US ROUTE 34 WITHIN A MILE RADIUS OF THE INTERSECTION BETWEEN IL ROUTE 26 AND US ROUTE 34. COVER ANY SIGNS DENOTING SOUTH US ROUTE 34 WITHIN A MILE RADIUS OF THE INTERCHANGE BETWEEN IL ROUTE 92 AND US ROUTE 34. COVER ANY SIGNS DENOTING SOUTH US ROUTE 34 WITHIN A MILE RADIUS OF THE INTERSECTION BETWEEN IL ROUTE 89 AND US ROUTE 34.

LEGEND

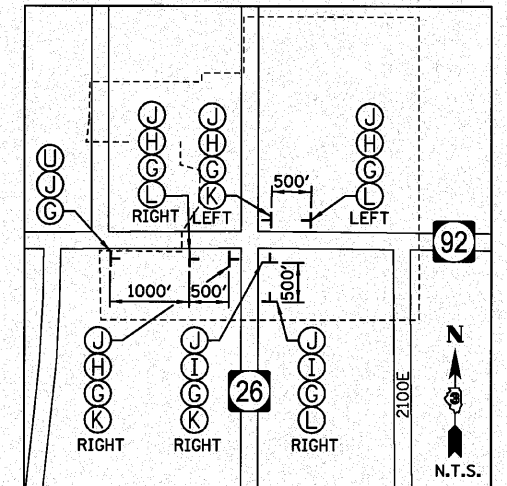
- TT TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- TT TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- ⊥ SIGNS ON PERMANENT SUPPORTS
- ⊕ FLASHING LIGHT ABOVE SIGN
- ◊ 18"x18" ORANGE FLAG
- ▨ DETOUR ROUTE
- FO FLORESCENT ORANGE



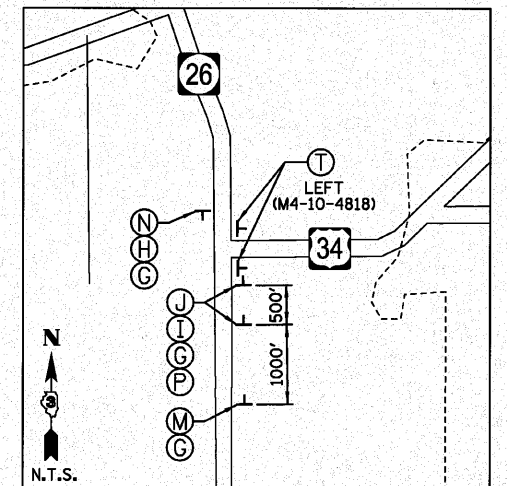
PROJECT LOCATION VICINITY (DETAIL "A")



CITY OF LAMOILLE INTERCHANGE (DETAIL "B")



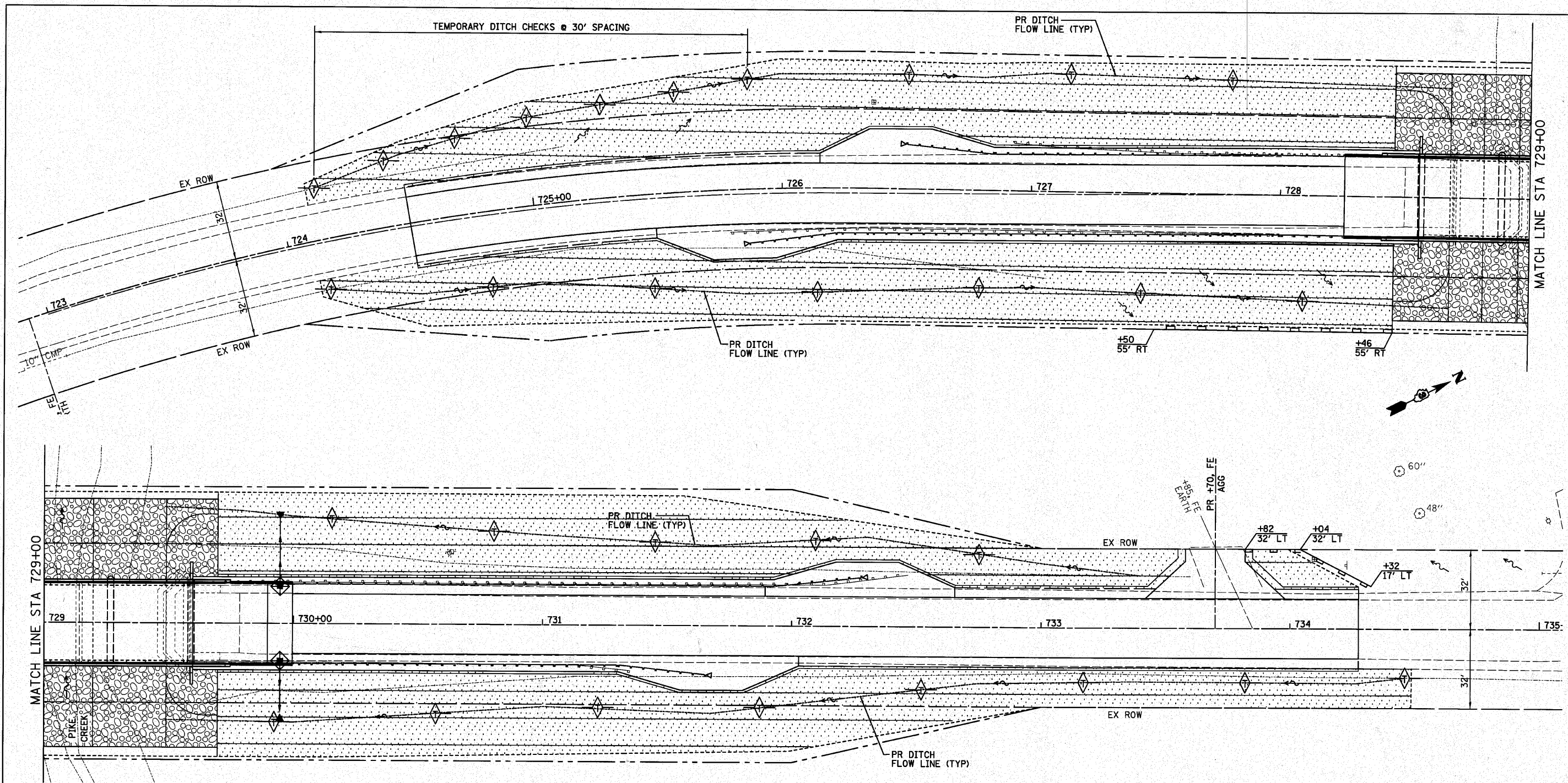
VILLAGE OF OHIO INTERCHANGE (DETAIL "C")



CITY OF PRINCETON INTERCHANGE (DETAIL "D")

R11-2-4830 A	W20-3-4848 B	W20-3-4848 C	R11-3-6030 D	R11-3-6030 E
R11-3-6030 F	M1-4.2-2424 G	M3-2-2412 H	M3-4-2412 I	M4-8-2412 J
M6-1-2115 K	M5-1-2115 L	W20-2-4848 M	M4-8A-2418 N	R11-4-4830 O
M6-3-2115 P	M5-2-2115 Q	M6-2-2115 R	M4-10-4818 S	M4-10-4818 T
R11-3-6030 U	R11-3-6030 V	M2-1-2115 W		

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN			F.A.S. RTE. 1249	SECTION (23 BR/BR)	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 12
	PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 66909		
	PLOT DATE = #DATE#	DATE - 10/08/10	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
					FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX						24-8372	

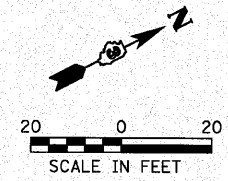


NOTES:

1. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY OR PROPOSED RIGHT-OF-WAY.
2. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH 1/2" OR GREATER RAIN EVENT.

LEGEND

- TEMPORARY DITCH CHECK @ 65' SPACING UNLESS OTHERWISE NOTED
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING, EROSION CONTROL BLANKET & SEEDING, CLASS 3
- STONE RIPRAP, CLASS A5 & FILTER FABRIC
- LIMITS OF CONSTRUCTION



FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -
#FILE#		DRAWN - JJO	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -
	PLOT DATE = #DATE#	DATE - 10/08/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BRBR)	BUREAU	39	13
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 66909	

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8372

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Benchmarks: BM #1 Brass disk in top of Northwest wingwall, Station 729+58/16' LT., Elevation = 764.89.
BM #2 Railroad spike in power pole, Station 730+63/29' LT., Elevation = 763.30.

Existing Structure: S.N. 006-0146, built in 1987 as SBI Route 18, Section 23 BR. The superstructure consists of simple span precast prestressed concrete deck beams with a steel railing attached to the exterior beams and a bituminous wearing surface. The substructure consists of concrete pile bent abutments supported by precast concrete piles and a concrete solid shaft pile bent pier supported by precast concrete piles. The back to back of abutment dimension measures 89'-9" and the out to out dimension measures 30'-0". The span lengths are 44'-10 1/2" each with no skew. Bridge to be closed and traffic detoured during construction.

No Salvage.

WATERWAY INFORMATION

Drainage Area = 24.1 Sq. Mi.		Low Grade Elev. 764.77 @ Sta. 731+00.00								
Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.		H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
10		2090	422	422	759.7	0.4	0.4	760.1	760.1	
Design	50	3343	505	505	760.6	0.8	0.8	761.4	761.4	
Base	100	3898	537	537	760.9	1.0	1.0	761.9	761.9	
Overtopping										
Max. Calc.	500	5249	602	602	761.5	1.6	1.6	763.2	763.2	

10 Yr. Velocity = 5.5 ft/sec. (Proposed)
10 Yr. Velocity = 5.5 ft/sec. (Existing)

SCOUR INFORMATION

Design Scour Elevation (ft.)	South Abutment	Pier 1	Pier 2	North Abutment
	760.17	746.40	746.40	759.52

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications, 4th Edition (with 2008 and 2009 Interim Revisions)

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi (Cast-In-Place)
fy = 60,000 psi (Reinforcement)

LOADING HL-93

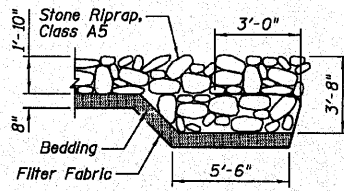
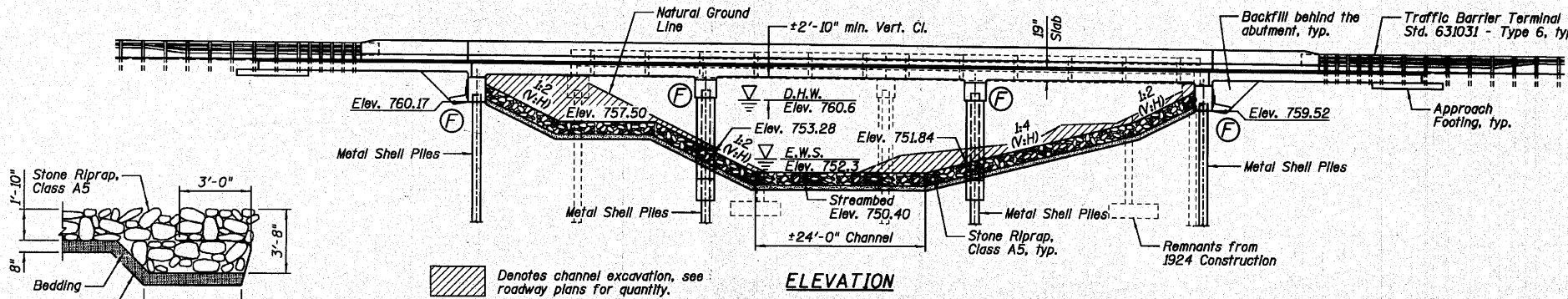
Allow 50#*sq. ft. for future wearing surface.

SEISMIC DATA

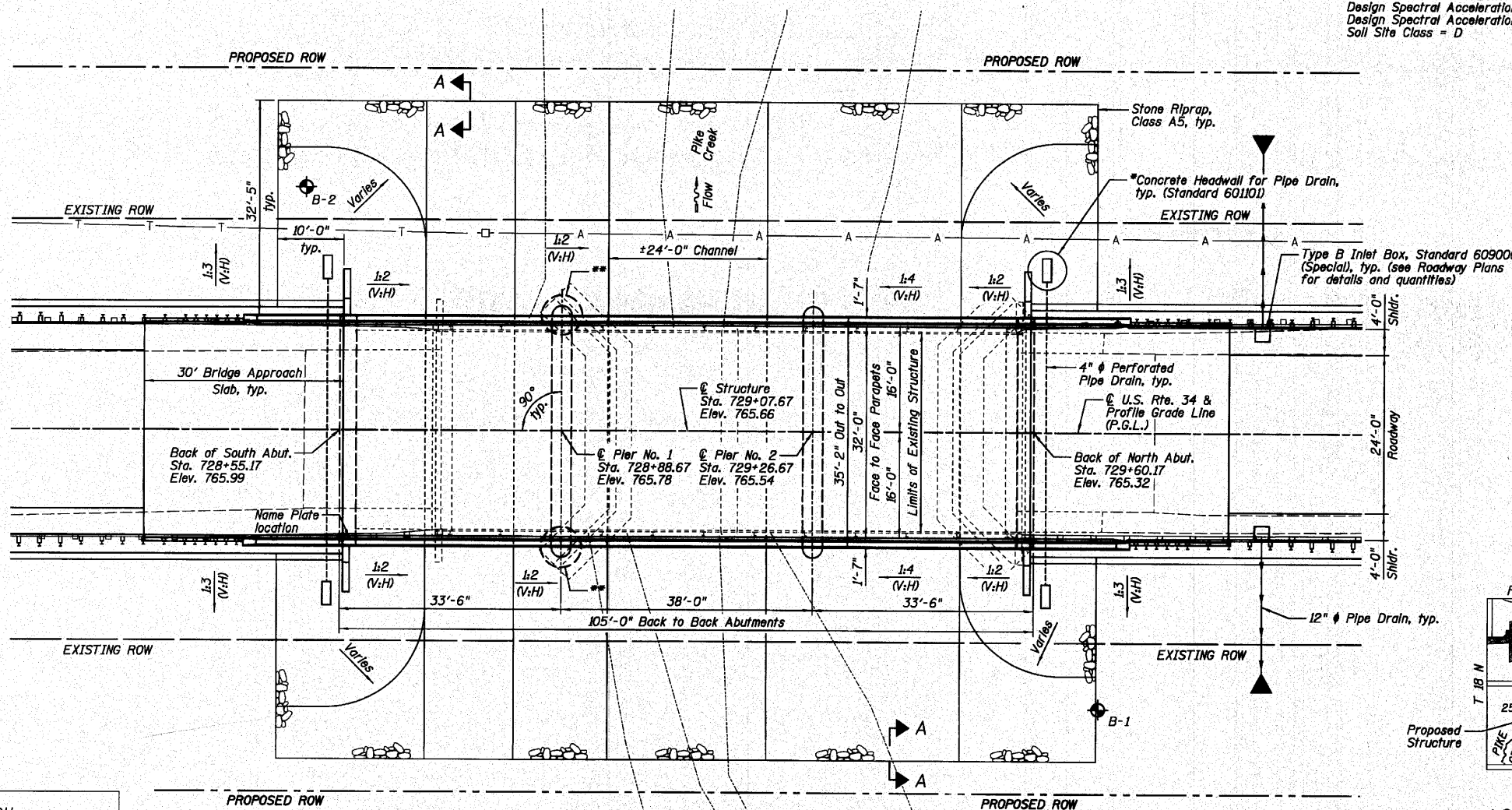
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.094 g
Design Spectral Acceleration at 0.2 sec. (SD5) = 0.156 g
Soil Site Class = D

INDEX OF SHEETS

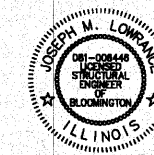
SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	GENERAL DATA
B3	TOP OF SLAB ELEVATION LOCATIONS AND ELEVATIONS
B4	APPROACH SLAB ELEVATIONS
B5	SUPERSTRUCTURE DECK
B6	SUPERSTRUCTURE CROSS SECTION
B7	SUPERSTRUCTURE DETAILS
B8-B9	BRIDGE APPROACH SLAB DETAILS
B10	SOUTH ABUTMENT
B11	NORTH ABUTMENT
B12	PIER NO. 1
B13	PIER NO. 2
B14	PIER DETAILS
B15	METAL SHELL PILE DETAILS
B16-B17	SOIL BORING LOGS



SECTION A-A



PLAN



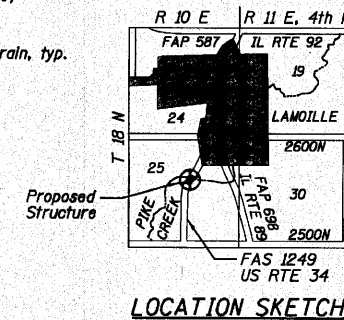
JOSEPH M. LOWRANCE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-006446
Exp. Date 11/30/10

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (SE)
ENGINEER OF BRIDGES AND STRUCTURES

NOTES:

- Included in the cost of Pipe Underdrains for Structures 4".
- Pile location coincides with the limits of the existing 1924 footing. See Pier No. 1 for additional information.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
U.S. ROUTE 34 OVER PIKE CREEK
F.A.S. 1249 - SECTION (23 BR)BR
BUREAU COUNTY
STATION 729+07.67
STRUCTURE NO. 006-0182

DESIGNED	SDH
CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW
DATE	10/08/10

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

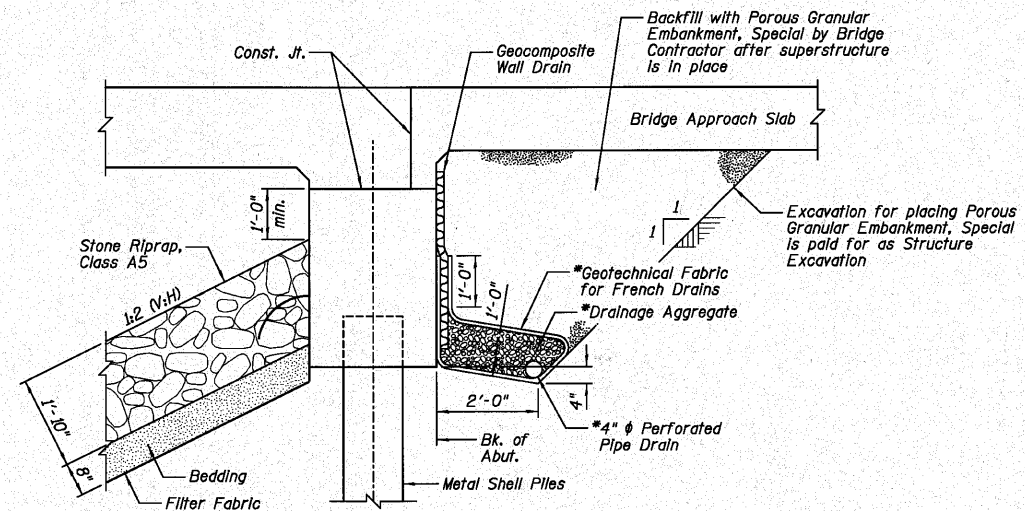
SHEET NO. B1
17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BR)BR	BUREAU	39	14
CONTRACT NO. 66909				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL

ITEMS	UNITS	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		72	72
Stone Riprap, Class A5	Sq. Yd.		1,340	1,340
Filter Fabric	Sq. Yd.		1,340	1,340
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		174	174
Concrete Structures	Cu. Yd.		149.0	149.0
Concrete Superstructure	Cu. Yd.	353.3		353.3
Bridge Deck Grooving	Sq. Yd.	546		546
Concrete Encasement	Cu. Yd.		8.6	8.6
Protective Coat	Sq. Yd.	703		703
Reinforcement Bars, Epoxy Coated	Pound	73,210	7,810	81,020
Furnishing Metal Shell Piles 14" x 0.250"	Foot		1,432	1,432
Driving Piles	Foot		1,432	1,432
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		18	18
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		40	40
Pipe Underdrains For Structures 4"	Foot		128	128
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1



SECTION THRU NORTH ABUTMENT
(Similar for South Abutment)

NOTES:

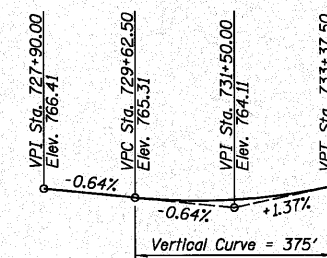
- *Included in the cost of Pipe Underdrains for Structures 4".
- All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).

GENERAL NOTES:

- Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework. In addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
- Slipforming of parapets is not allowed.
- The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for the removal and replacement of the structure.
- The pay item Removal of Existing Structures shall include removal of the bituminous wearing surface on top of the existing deck.

STATION 729+07.67
BUILT 20__ BY
STATE OF ILLINOIS
F.A.S. RT. 1249 SEC. (23 BR)BR
LOADING HL93
STR. NO. 006-0182

NAME PLATE
See Standard 515001



PROFILE GRADE
(Along E Roadway)

DESIGNED SDH
CHECKED JML
DRAWN DJM/JWK
CHECKED MSW

DATE 10/08/10

GENERAL DATA
STRUCTURE NO. 006-0182

 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. B2	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17 SHEETS	1249	(23 BR)BR	BUREAU	39	15
CONTRACT NO. 66909						
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of South Abut.	728+55.17	-16.00	765.72	765.72
☉ Piles South Abut.	728+56.42	-16.00	765.71	765.71
A	728+66.42	-16.00	765.65	765.66
B	728+76.42	-16.00	765.59	765.59
☉ Pier No. 1	728+88.67	-16.00	765.51	765.51
C	728+98.67	-16.00	765.44	765.45
D	729+08.67	-16.00	765.38	765.39
E	729+18.67	-16.00	765.32	765.32
☉ Pier No. 2	729+26.67	-16.00	765.26	765.26
F	729+36.67	-16.00	765.20	765.21
G	729+46.67	-16.00	765.14	765.15
☉ Piles North Abut.	729+58.92	-16.00	765.06	765.06
Back of North Abut.	729+60.17	-16.00	765.05	765.05

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of South Abut.	728+55.17	-12.00	765.81	765.81
☉ Piles South Abut.	728+56.42	-12.00	765.80	765.80
A	728+66.42	-12.00	765.73	765.74
B	728+76.42	-12.00	765.67	765.68
☉ Pier No. 1	728+88.67	-12.00	765.59	765.59
C	728+98.67	-12.00	765.53	765.53
D	729+08.67	-12.00	765.46	765.47
E	729+18.67	-12.00	765.40	765.40
☉ Pier No. 2	729+26.67	-12.00	765.35	765.35
F	729+36.67	-12.00	765.28	765.29
G	729+46.67	-12.00	765.22	765.23
☉ Piles North Abut.	729+58.92	-12.00	765.14	765.14
Back of North Abut.	729+60.17	-12.00	765.13	765.13

☉ ROADWAY & PROFILE GRADE LINE (P.G.L.)

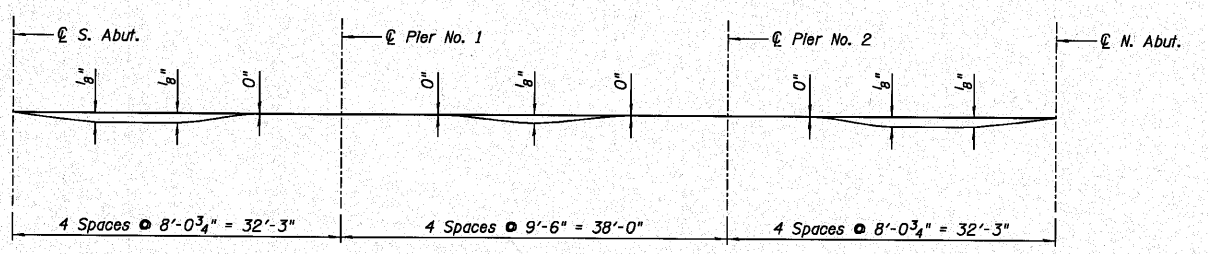
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of South Abut.	728+55.17	0.00	765.99	765.99
☉ Piles South Abut.	728+56.42	0.00	765.98	765.98
A	728+66.42	0.00	765.92	765.93
B	728+76.42	0.00	765.86	765.86
☉ Pier No. 1	728+88.67	0.00	765.78	765.78
C	728+98.67	0.00	765.71	765.72
D	729+08.67	0.00	765.65	765.66
E	729+18.67	0.00	765.59	765.59
☉ Pier No. 2	729+26.67	0.00	765.54	765.54
F	729+36.67	0.00	765.47	765.48
G	729+46.67	0.00	765.41	765.42
☉ Piles North Abut.	729+58.92	0.00	765.33	765.33
Back of North Abut.	729+60.17	0.00	765.32	765.32

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of South Abut.	728+55.17	12.00	765.81	765.81
☉ Piles South Abut.	728+56.42	12.00	765.80	765.80
A	728+66.42	12.00	765.73	765.74
B	728+76.42	12.00	765.67	765.68
☉ Pier No. 1	728+88.67	12.00	765.59	765.59
C	728+98.67	12.00	765.53	765.53
D	729+08.67	12.00	765.46	765.47
E	729+18.67	12.00	765.40	765.40
☉ Pier No. 2	729+26.67	12.00	765.35	765.35
F	729+36.67	12.00	765.28	765.29
G	729+46.67	12.00	765.22	765.23
☉ Piles North Abut.	729+58.92	12.00	765.14	765.14
Back of North Abut.	729+60.17	12.00	765.13	765.13

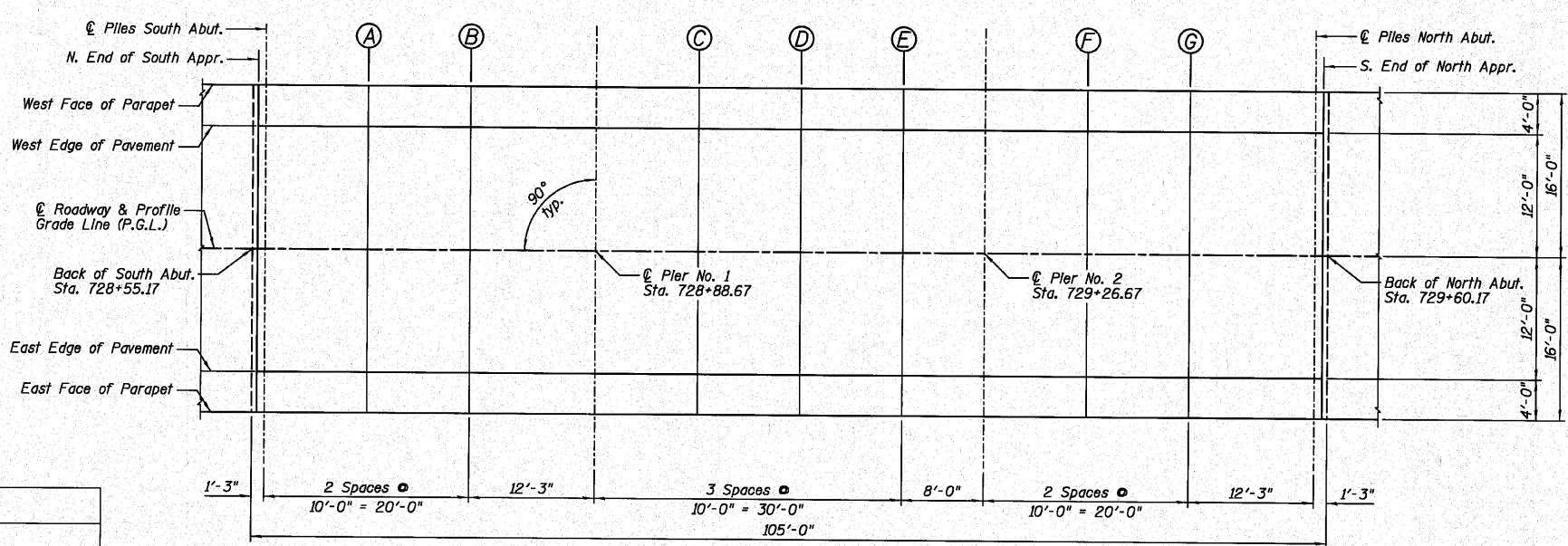
EAST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of South Abut.	728+55.17	16.00	765.72	765.72
☉ Piles South Abut.	728+56.42	16.00	765.71	765.71
A	728+66.42	16.00	765.65	765.66
B	728+76.42	16.00	765.59	765.59
☉ Pier No. 1	728+88.67	16.00	765.51	765.51
C	728+98.67	16.00	765.44	765.45
D	729+08.67	16.00	765.38	765.39
E	729+18.67	16.00	765.32	765.32
☉ Pier No. 2	729+26.67	16.00	765.26	765.26
F	729+36.67	16.00	765.20	765.21
G	729+46.67	16.00	765.14	765.15
☉ Piles North Abut.	729+58.92	16.00	765.06	765.06
Back of North Abut.	729+60.17	16.00	765.05	765.05



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)

The above deflections are not for use in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection."



ELEVATION LOCATION PLAN



DESIGNED SDH
CHECKED JML
DRAWN DJM/JWK
CHECKED MSW
DATE 10/08/10

TOP OF SLAB ELEVATION
LOCATIONS AND ELEVATIONS
STRUCTURE NO. 006-0182

Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. B3	F.A.S. RTE. 1249	SECTION (23 BR)BR	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 16
	17 SHEETS	CONTRACT NO. 66909				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST CURB LINE/WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	728+25.67	-16.42	765.90
A	728+35.67	-16.42	765.84
B	728+45.67	-16.00	765.78
Back of South Abut.	728+55.17	-16.00	765.72
N. End of South Appr.	728+55.67	-16.00	765.72

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	728+25.67	-12.00	765.99
A	728+35.67	-12.00	765.93
B	728+45.67	-12.00	765.87
Back of South Abut.	728+55.17	-12.00	765.81
N. End of South Appr.	728+55.67	-12.00	765.80

☉ ROADWAY & PROFILE GRADE LINE (P.G.L.)

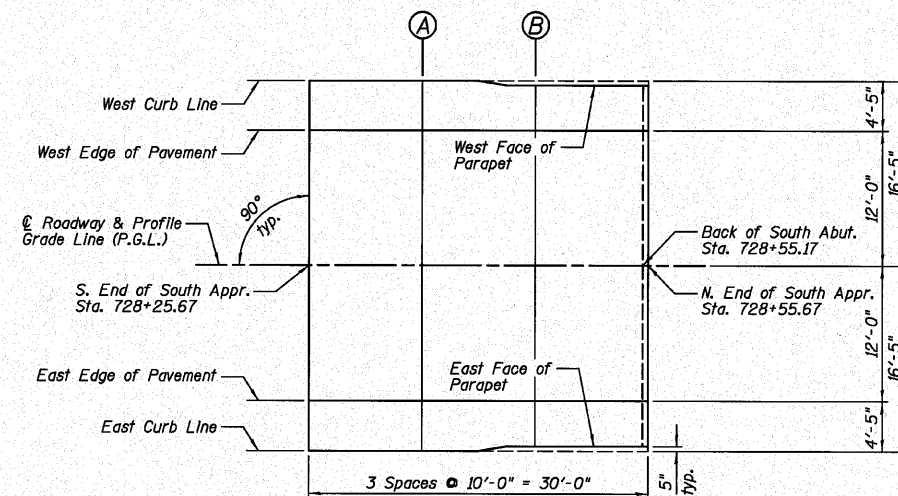
Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	728+25.67	0.00	766.18
A	728+35.67	0.00	766.12
B	728+45.67	0.00	766.05
Back of South Abut.	728+55.17	0.00	765.99
N. End of South Appr.	728+55.67	0.00	765.99

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	728+25.67	12.00	765.99
A	728+35.67	12.00	765.93
B	728+45.67	12.00	765.87
Back of South Abut.	728+55.17	12.00	765.81
N. End of South Appr.	728+55.67	12.00	765.80

EAST CURB LINE/EAST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	728+25.67	16.42	765.90
A	728+35.67	16.42	765.84
B	728+45.67	16.00	765.78
Back of South Abut.	728+55.17	16.00	765.72
N. End of South Appr.	728+55.67	16.00	765.72



SOUTH APPROACH SLAB PLAN

WEST CURB LINE/WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	729+59.67	-16.00	765.05
Back of North Abut.	729+60.17	-16.00	765.05
A	729+69.67	-16.00	764.99
B	729+79.67	-16.42	764.93
N. End of North Appr.	729+89.67	-16.42	764.88

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	729+59.67	-12.00	765.14
Back of North Abut.	729+60.17	-12.00	765.13
A	729+69.67	-12.00	765.08
B	729+79.67	-12.00	765.02
N. End of North Appr.	729+89.67	-12.00	765.97

☉ ROADWAY & PROFILE GRADE LINE (P.G.L.)

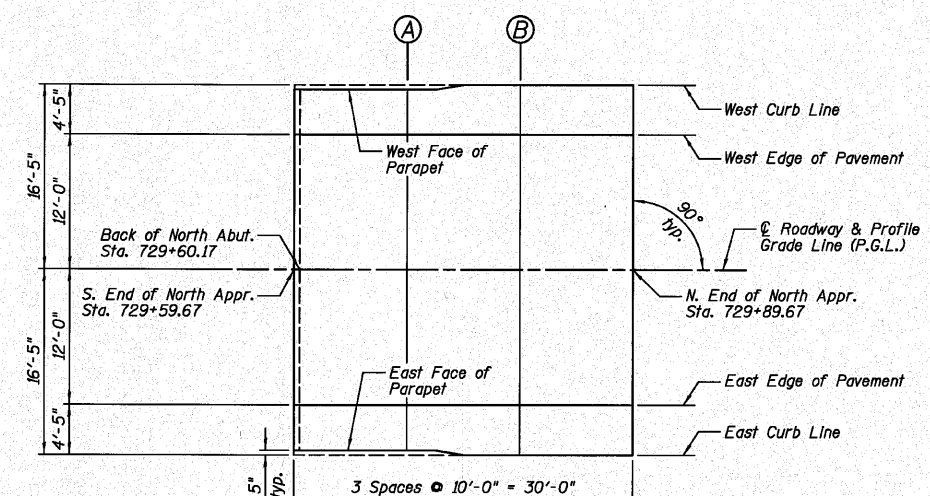
Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	729+59.67	0.00	765.32
Back of North Abut.	729+60.17	0.00	765.32
A	729+69.67	0.00	765.27
B	729+79.67	0.00	765.21
N. End of North Appr.	729+89.67	0.00	765.16

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	729+59.67	12.00	765.14
Back of North Abut.	729+60.17	12.00	765.13
A	729+69.67	12.00	765.08
B	729+79.67	12.00	765.02
N. End of North Appr.	729+89.67	12.00	764.97

EAST CURB LINE/EAST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	729+59.67	16.00	765.05
Back of North Abut.	729+60.17	16.00	765.05
A	729+69.67	16.00	764.99
B	729+79.67	16.42	764.93
N. End of North Appr.	729+89.67	16.42	764.88



NORTH APPROACH SLAB PLAN

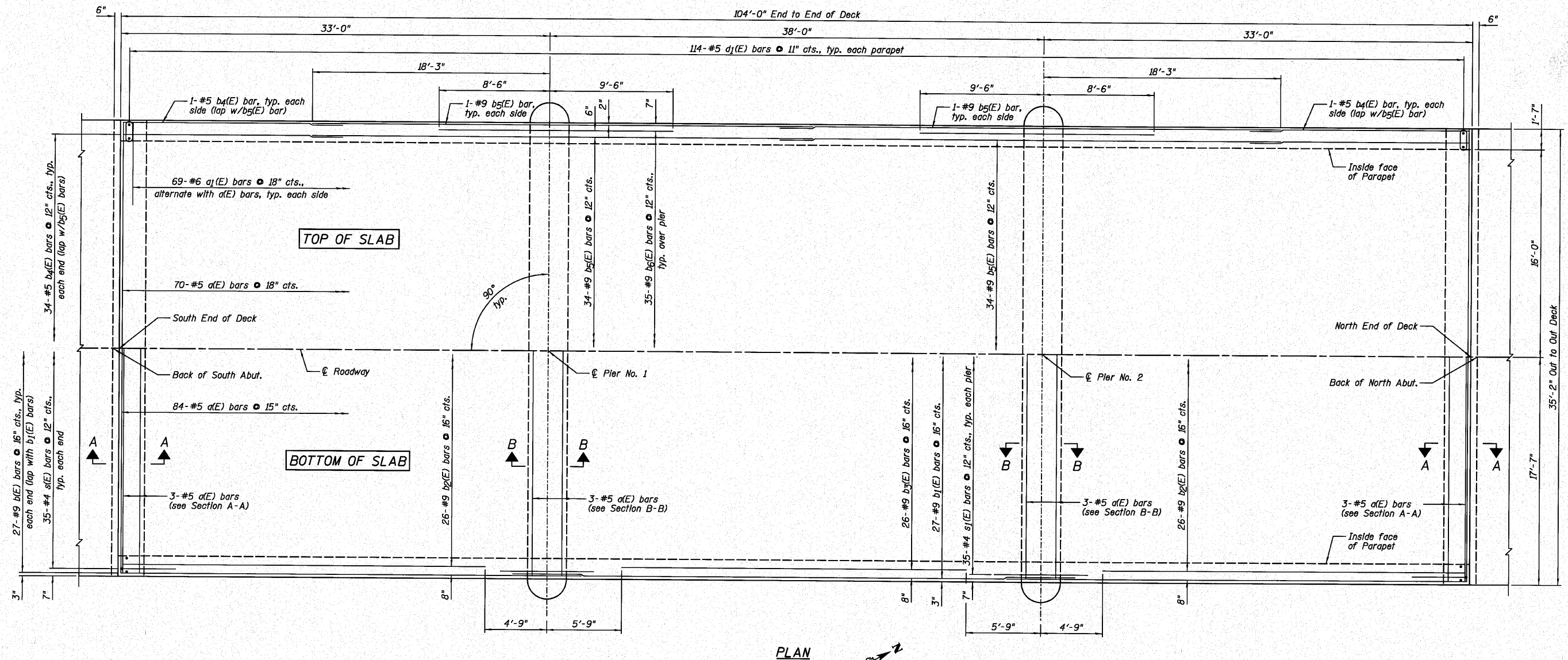
DESIGNED	SDH
CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW

DATE 10/08/10

APPROACH SLAB ELEVATIONS
STRUCTURE NO. 006-0182

 Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. B4	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17 SHEETS	1249	(23 BR)BR	BUREAU	39	17
		CONTRACT NO. 66909				
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BAR LAP	
#5	2'-3"
#9	5'-3"

NOTES:

- 1.) See Sheet B7 for Superstructure Details and Bill of Material.
- 2.) See Sheet B6 for Sections A-A and B-B.

DESIGNED	SDH
CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW

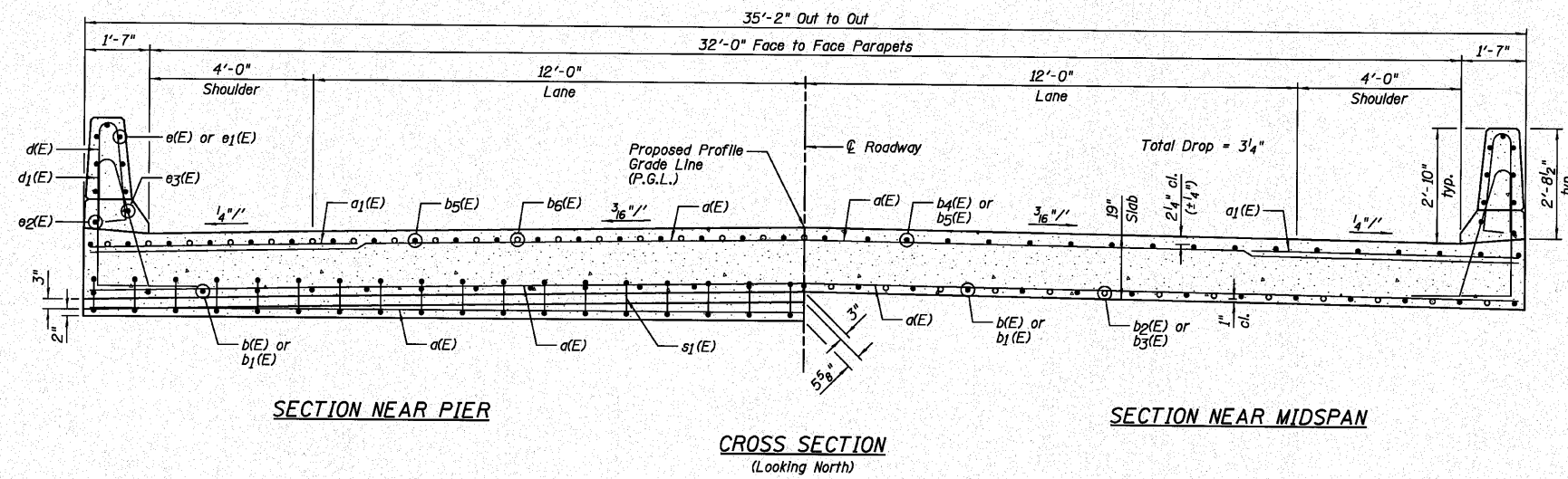
DATE 10/08/10

SUPERSTRUCTURE DECK
STRUCTURE NO. 006-0182

F.A.S. RTE. 1249	SECTION (23 BR)BR	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 18
	CONTRACT NO. 66909			
SHEET NO. B5 17 SHEETS		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

Farnsworth
GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

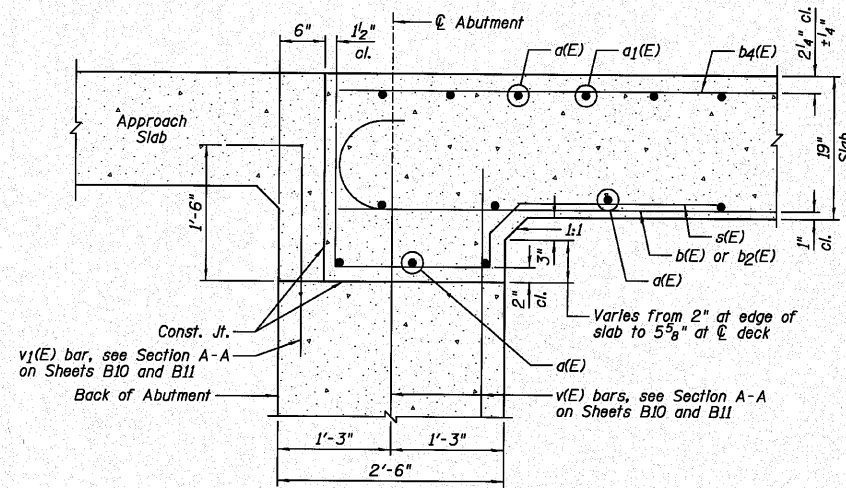
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



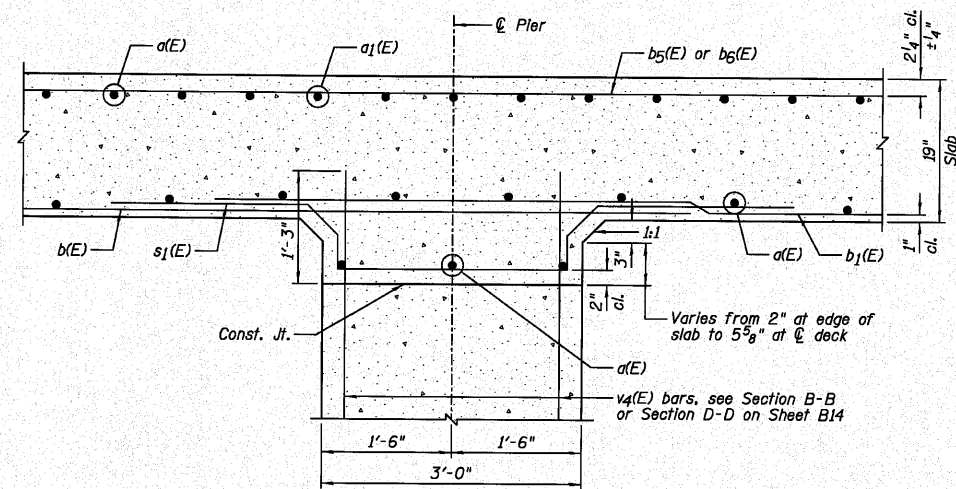
SECTION NEAR PIER

CROSS SECTION
(Looking North)

SECTION NEAR MIDSPAN



SECTION A-A



SECTION B-B

DESIGNED	SDH
CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW
DATE	10/08/10

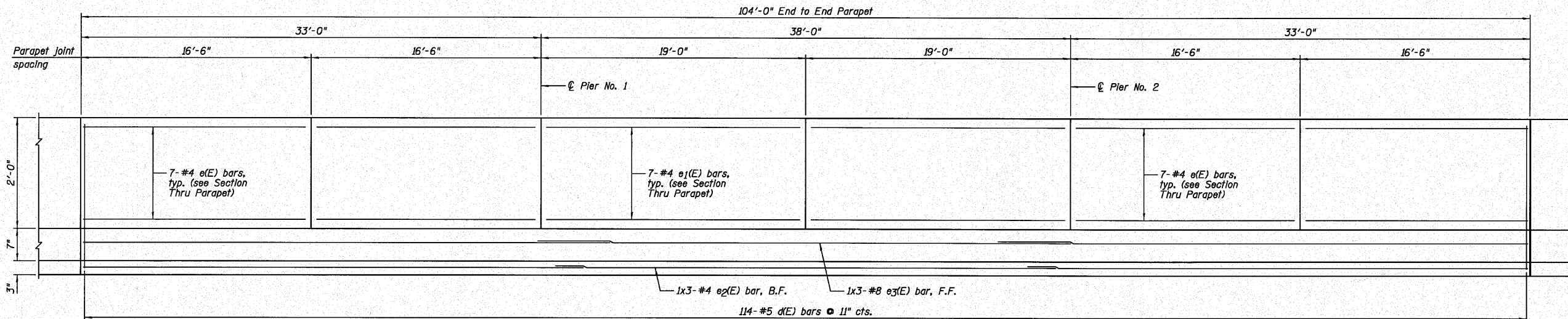
NOTES:
1.) For Section Thru Parapet, see Sheet B7.
2.) For locations of Sections A-A and B-B, see Sheet B5.

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

SHEET NO. B6 17 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1249	(23 BR)BR	BUREAU	39	19
CONTRACT NO. 66909					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

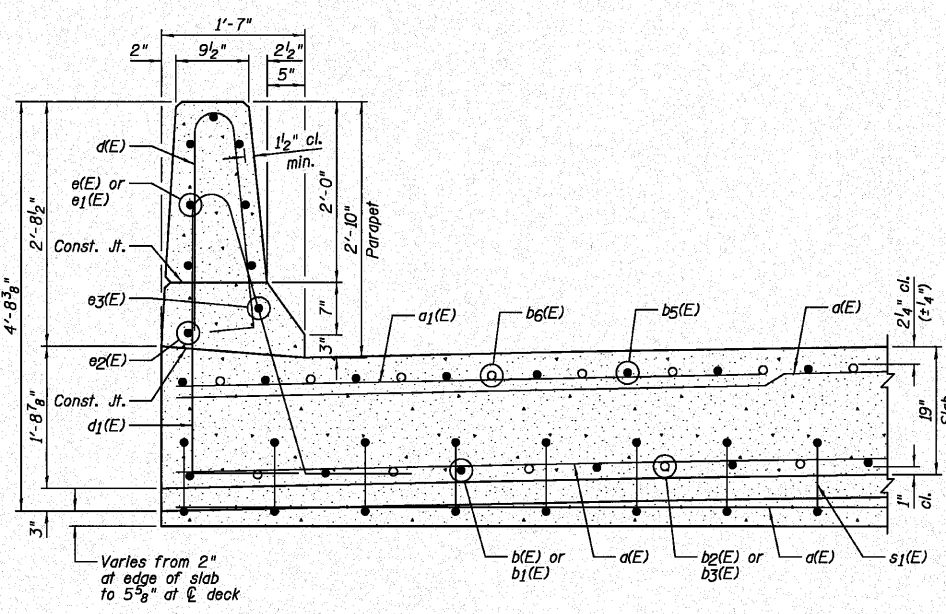
**SUPERSTRUCTURE CROSS SECTION
STRUCTURE NO. 006-0182**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

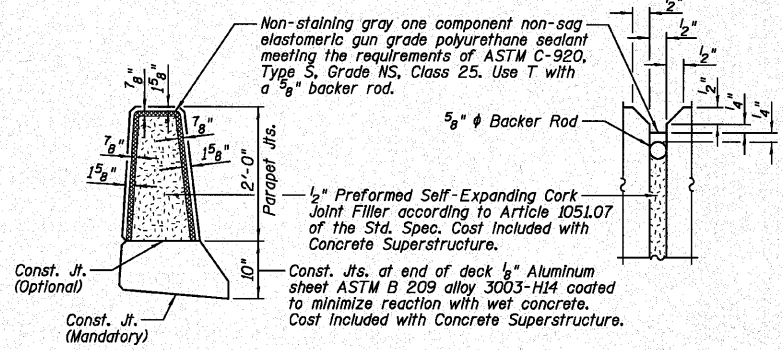


BAR LAP	
#4	2'-0"
#8	5'-2"

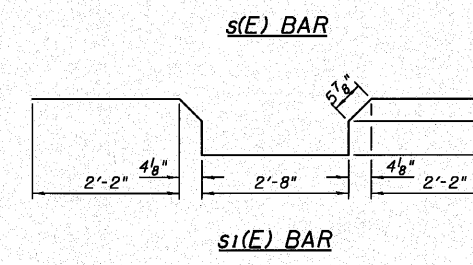
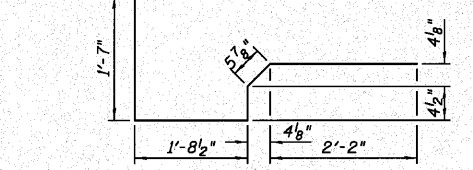
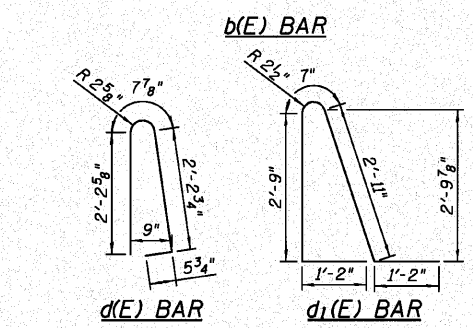
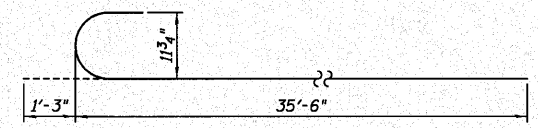
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET



PARAPET JOINT DETAILS



SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	166	#5	34'-10"	
a1(E)	138	#6	6'-6"	
b(E)	54	#9	36'-9"	
b1(E)	27	#9	43'-3"	
b2(E)	52	#9	28'-1"	
b3(E)	26	#9	26'-6"	
b4(E)	72	#5	16'-10"	
b5(E)	72	#9	38'-6"	
b6(E)	70	#9	18'-0"	
d(E)	228	#5	5'-7"	
d1(E)	228	#5	8'-7"	
e(E)	56	#4	16'-2"	
e1(E)	28	#4	18'-8"	
e2(E)	6	#4	35'-11"	
e3(E)	6	#8	38'-0"	
s(E)	70	#4	6'-4"	
s1(E)	70	#4	8'-9"	
Item		Unit	Quantity	
Concrete		Cu. Yd.	246.1	
Superstructure				
Reinforcement Bars, Epoxy Coated		Pound	46,160	

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 006-0182

DESIGNED	SDH
CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW

DATE 10/08/10

- NOTES:
- 1.) B.F. denotes Back Face and F.F. denotes Front Face.
 - 2.) Inside elevation of parapet is exaggerated vertically to show reinforcement.
 - 3.) Bar indicated thus 1x3-#4 etc. indicates 1 line of bars with 3 lengths per line.

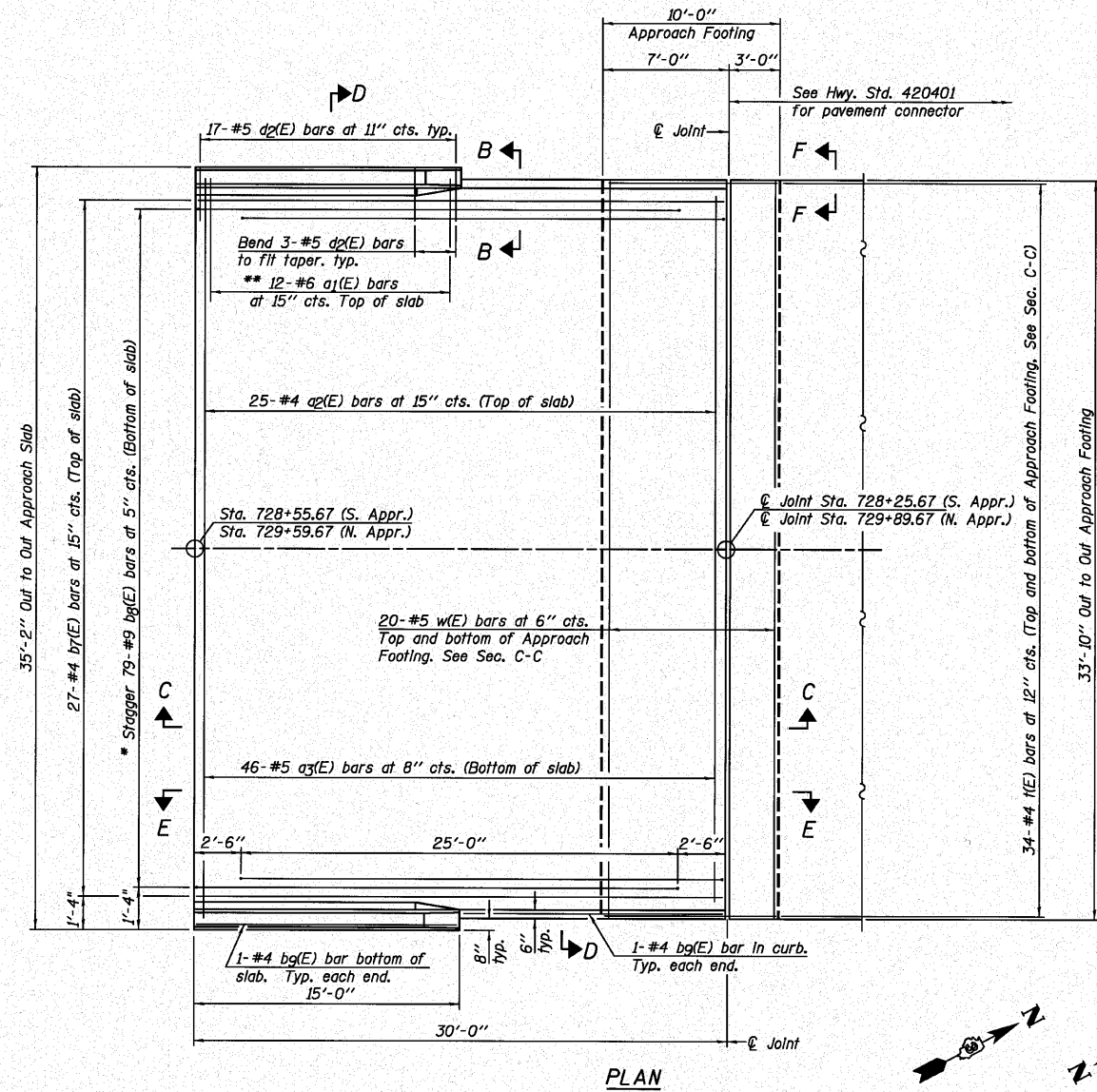
Farnsworth GROUP, INC.
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SHEET NO. B7
17 SHEETS

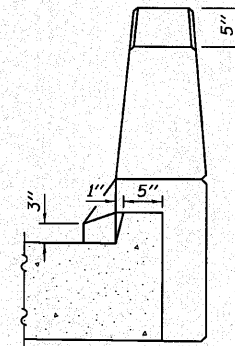
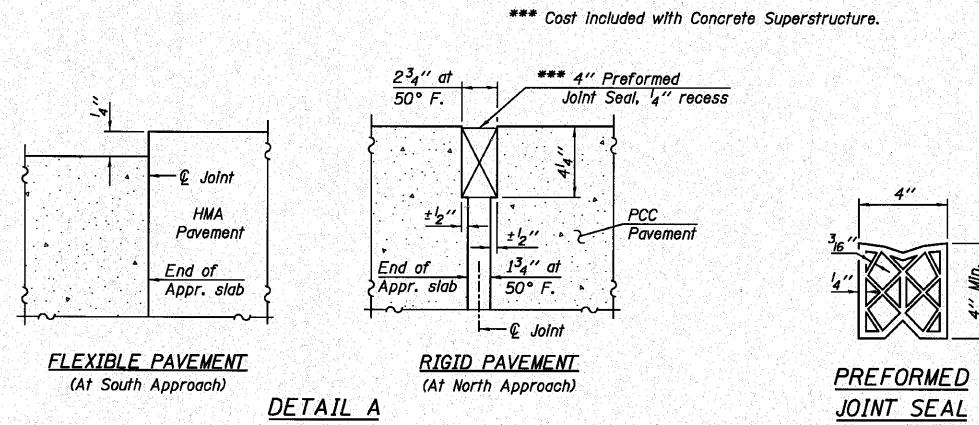
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BR)BR	BUREAU	39	20
CONTRACT NO. 66909				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
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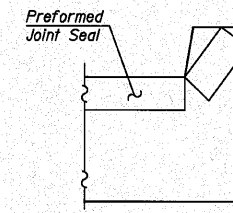
Notes:
See Sheet B9 for Sections C-C & D-D and View E-E.
a2(E) and a3(E) bar spacings measured along ϕ Rdwy.



* Tilt #9 bg(E) bars as required to maintain clearance.
** Space between a2(E) bars, typ. ea. parapet.



VIEW B-B



VIEW F-F (At North Approach)

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

DESIGNED SDH
CHECKED JML
DRAWN DJM/JWK
CHECKED MSW

DATE 10/08/10

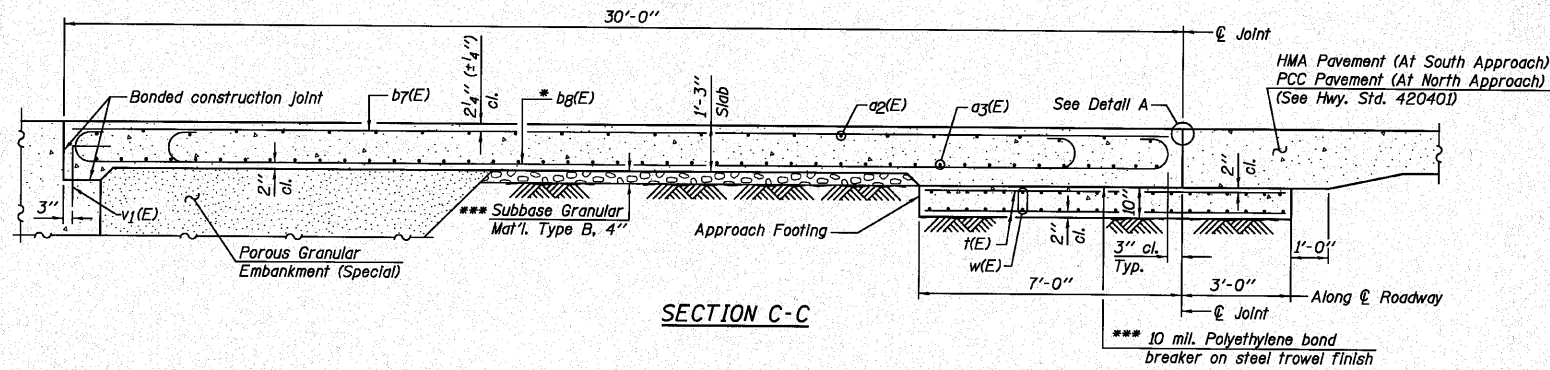
BA-0

11-1-09

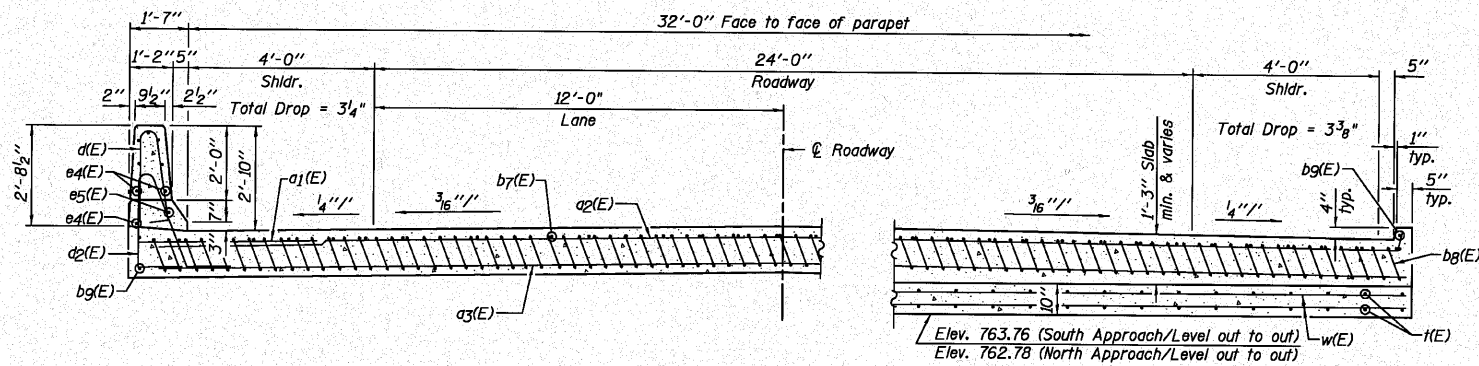
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 006-0182

<p>Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax</p>	SHEET NO. B8	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17 SHEETS	1249	(23 BR)BR	BUREAU	39	21
		CONTRACT NO. 66909				
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

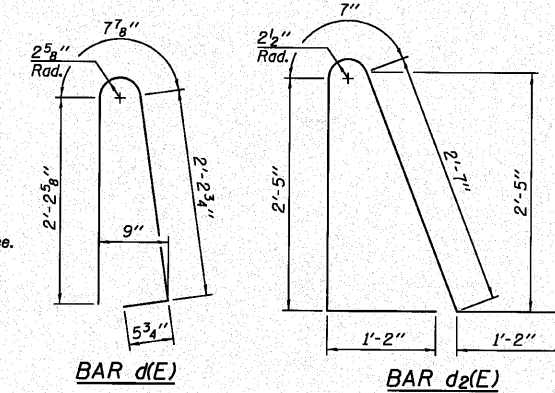
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Notes:
See Sheet B8 for Detail A and View B-B.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see Sheets B10 and B11.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see Sheet B2.
For additional parapet details, see Sheet B7.



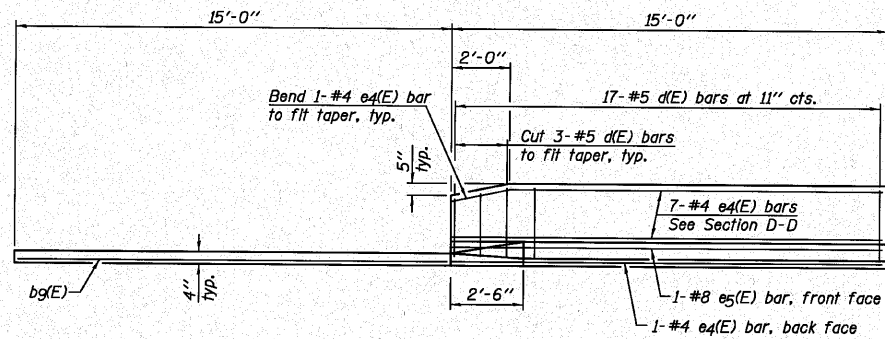
* Tilt #9 bg(E) bars as required to maintain clearance.
*** Cost Included with Concrete Superstructure.



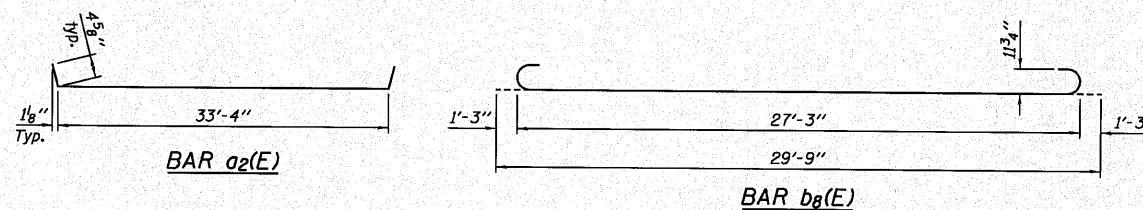
NEAR ABUTMENT

SECTION D-D

AT APPROACH FOOTING



VIEW E-E



TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	48	#6	6'-6"	—
a2(E)	50	#4	34'-1"	—
a3(E)	92	#5	33'-6"	—
b7(E)	54	#4	29'-8"	—
bg(E)	158	#9	29'-9"	—
bg(E)	8	#4	14'-8"	—
d(E)	68	#5	5'-7"	—
d2(E)	68	#5	7'-11"	—
e4(E)	32	#4	14'-8"	—
e5(E)	4	#8	14'-8"	—
k(E)	136	#4	9'-8"	—
w(E)	80	#5	33'-6"	—
Item	Unit	Quantity		
Concrete Superstructure	Cu. Yd.	107.2		
Concrete Structures	Cu. Yd.	20.9		
Reinforcement Bars, Epoxy Coated	Pound	27,050		

DESIGNED	SDH
CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW

DATE 10/08/10

BA-0

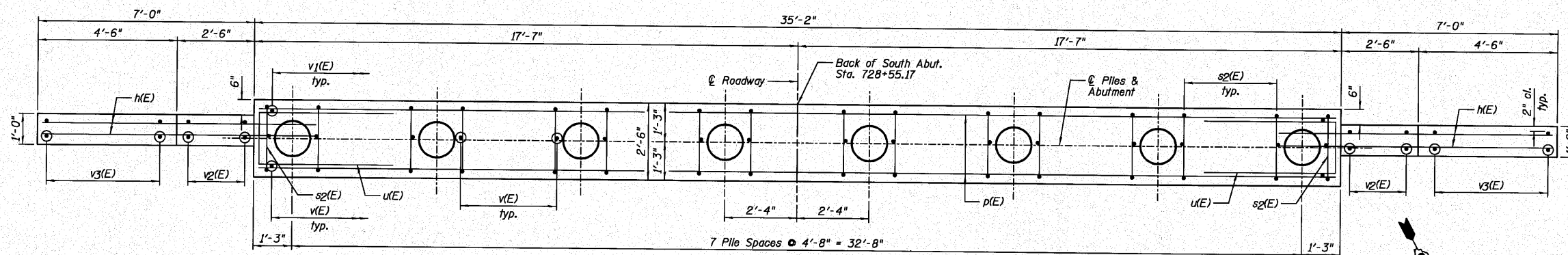
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BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 006-0182

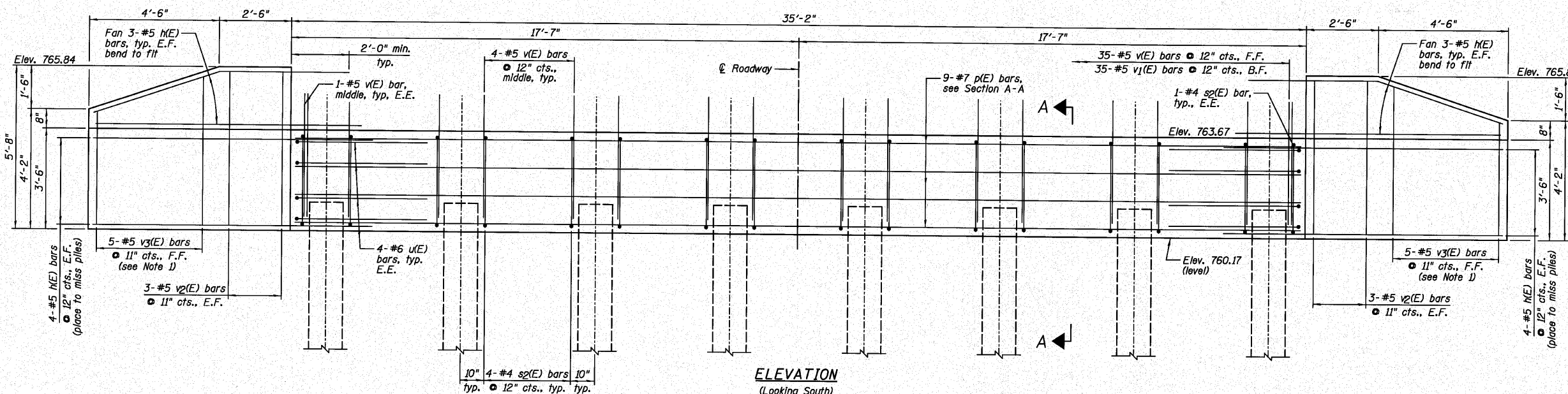
F.A.S. RTE. 1249	SECTION (23 BR)BR	COUNTY BUREAU	TOTAL SHEETS	SHEET NO.
			39	22
SHEET NO. B9 17 SHEETS		CONTRACT NO. 66909		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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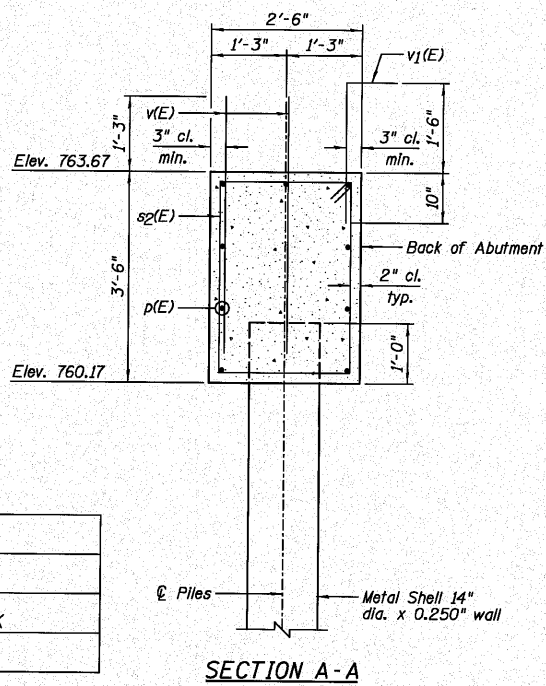
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DEPARTMENT OF TRANSPORTATION



PLAN



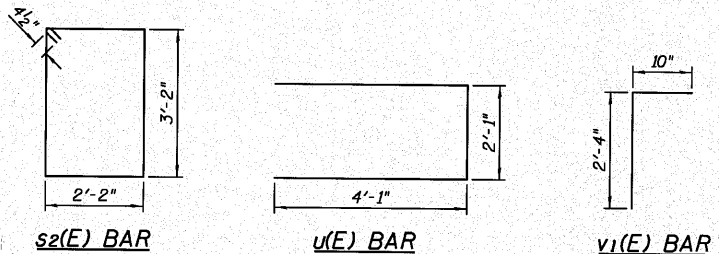
ELEVATION
(Looking South)



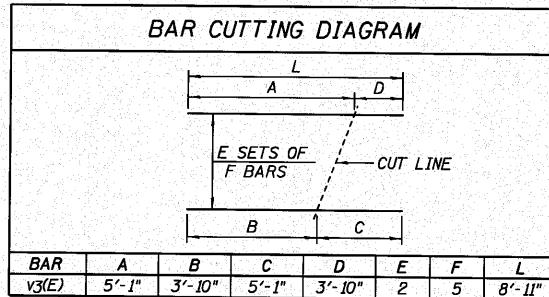
SECTION A-A

SOUTH ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#5	9'-2"	
p(E)	9	#7	34'-10"	
s2(E)	30	#4	11'-5"	□
u(E)	8	#6	10'-3"	□
v(E)	65	#5	4'-3"	
v1(E)	35	#5	3'-2"	┌
v2(E)	12	#5	5'-4"	
v3(E)	10	#5	8'-11"	
Item	Unit	Quantity		
Porous Granular Embankment, Special	Cu. Yd.	36		
Structure Excavation	Cu. Yd.	50		
Concrete Structures	Cu. Yd.	14.1		
Reinforcement Bars, Epoxy Coated	Pound	1,830		
Furnishing Metal Shell Piles 14" x 0.250"	Foot	352		
Driving Piles	Foot	352		
Geocomposite Wall Drain	Sq. Yd.	20		
Pipe Underdrains For Structures 4"	Foot	64		



BAR CUTTING DIAGRAM



PILE DATA:

Pile Type and Size	Metal Shell - 14 In. dia. x 0.250 In. walls
Nominal Required Bearing	214 kips
Factored Resistance Available	118 kips
Estimated Pile Length	44 Feet
Number of Production Piles	8
Number of Test Piles	0

NOTES:

- Order v3(E) bars full length. Cut according to Bar Cutting Diagram. Use remainder of bars in Back Face.
- Bend or cut h(E) bars to miss piles.
- E.E. denotes Each End, F.F. denotes Front Face, B.F. denotes Back Face and E.F. denotes Each Face.

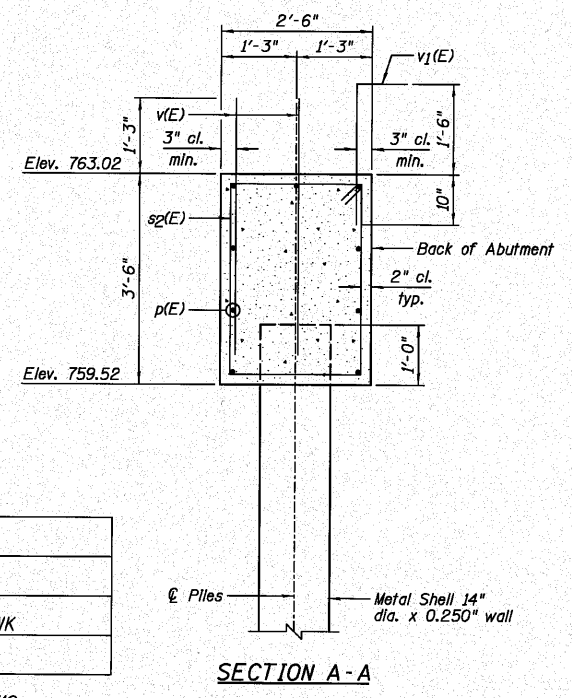
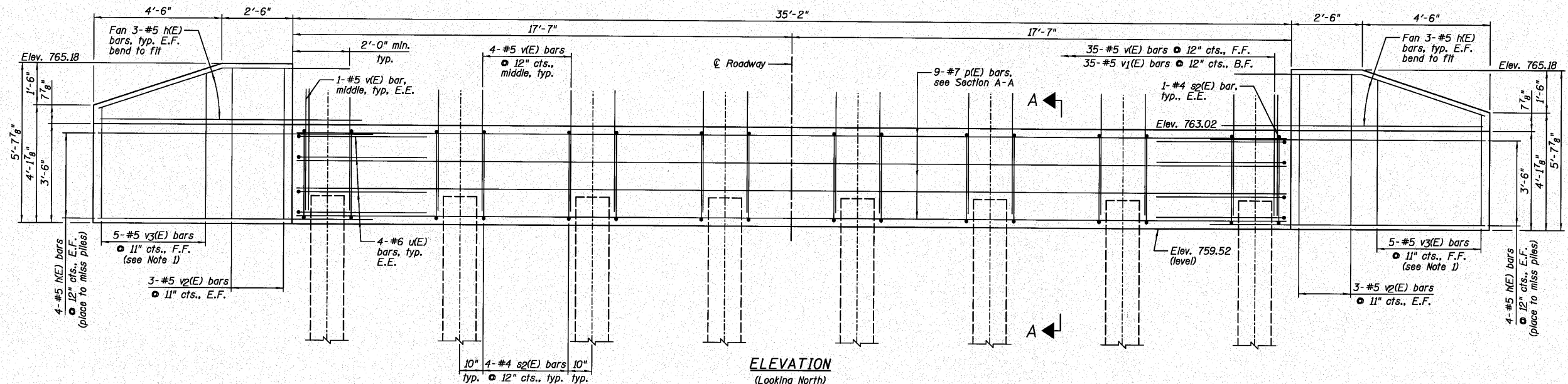
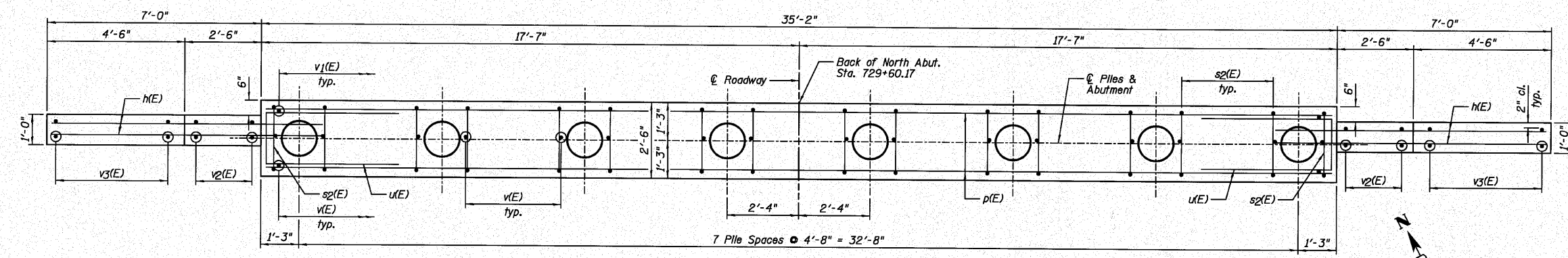
DESIGNED SDH
CHECKED JML
DRAWN DJM/JWK
CHECKED MSW

DATE 10/08/10

SOUTH ABUTMENT
STRUCTURE NO. 006-0182

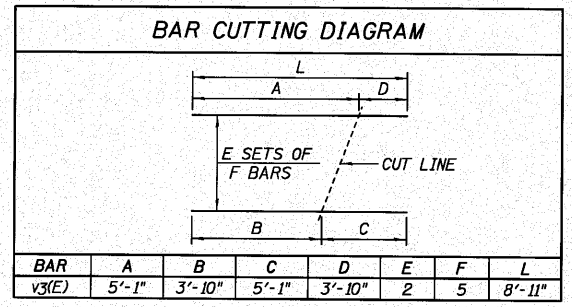
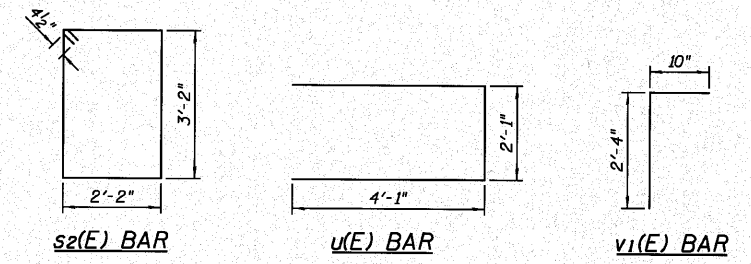
Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. B10	F.A.S. RTE. 1249	SECTION (23 BR)BR	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 23
	17 SHEETS	CONTRACT NO. 66909		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NORTH ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#5	9'-2"	—
p(E)	9	#7	34'-10"	—
sz(E)	30	#4	11'-5"	□
u(E)	8	#6	10'-3"	□
v(E)	65	#5	4'-3"	—
v1(E)	35	#5	3'-2"	—
v2(E)	12	#5	5'-4"	—
v3(E)	10	#5	8'-11"	—
Item	Unit	Quantity		
Porous Granular Embankment, Special	Cu. Yd.	36		
Structure Excavation	Cu. Yd.	50		
Concrete Structures	Cu. Yd.	14.1		
Reinforcement Bars, Epoxy Coated	Pound	1,830		
Furnishing Metal Shell Piles 14" x 0.250"	Foot	133		
Driving Piles	Foot	133		
Test Pile Metal Shells	Each	1		
Pile Shoes	Each	8		
Geocomposite Wall Drain	Sq. Yd.	20		
Pipe Underdrains For Structures 4"	Foot	64		



PILE DATA:

Pile Type and Size	Metal Shell - 14 in. dia. x 0.250 in. walls with pile shoes
Nominal Required Bearing	224 kips
Factored Resistance Available	123 kips
Estimated Pile Length	19 Feet
Number of Production Piles	7
Number of Test Piles	1

- NOTES:
- Order v3(E) bars full length. Cut according to Bar Cutting Diagram. Use remainder of bars in Back Face.
 - Bend or cut h(E) bars to miss piles.
 - E.E. denotes Each End, F.F. denotes Front Face, B.F. denotes Back Face and E.F. denotes Each Face.

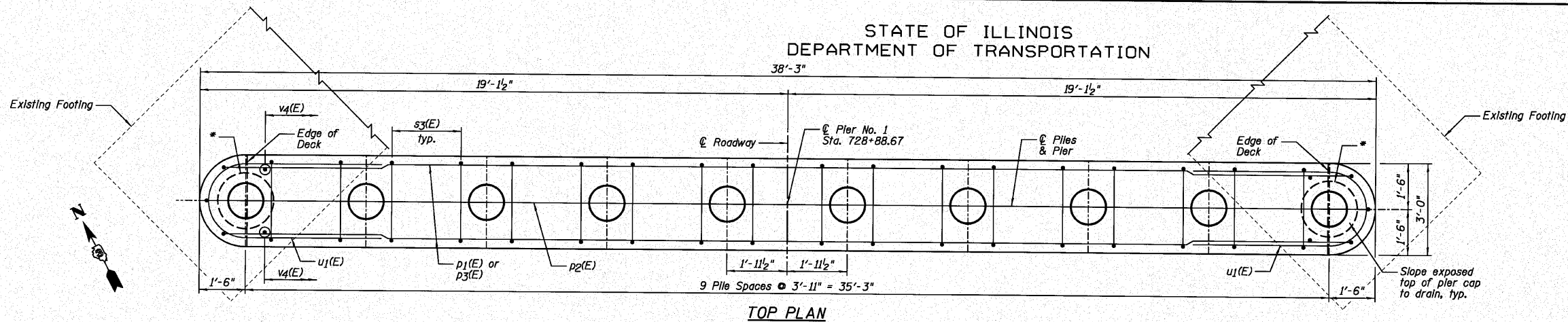
DESIGNED SDH
CHECKED JML
DRAWN DJM/JWK
CHECKED MSW
DATE 10/08/10

Farnsworth GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

SHEET NO. B11	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	(23 BR)BR	BUREAU	39	24
CONTRACT NO. 66909			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

NORTH ABUTMENT
STRUCTURE NO. 006-0182

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

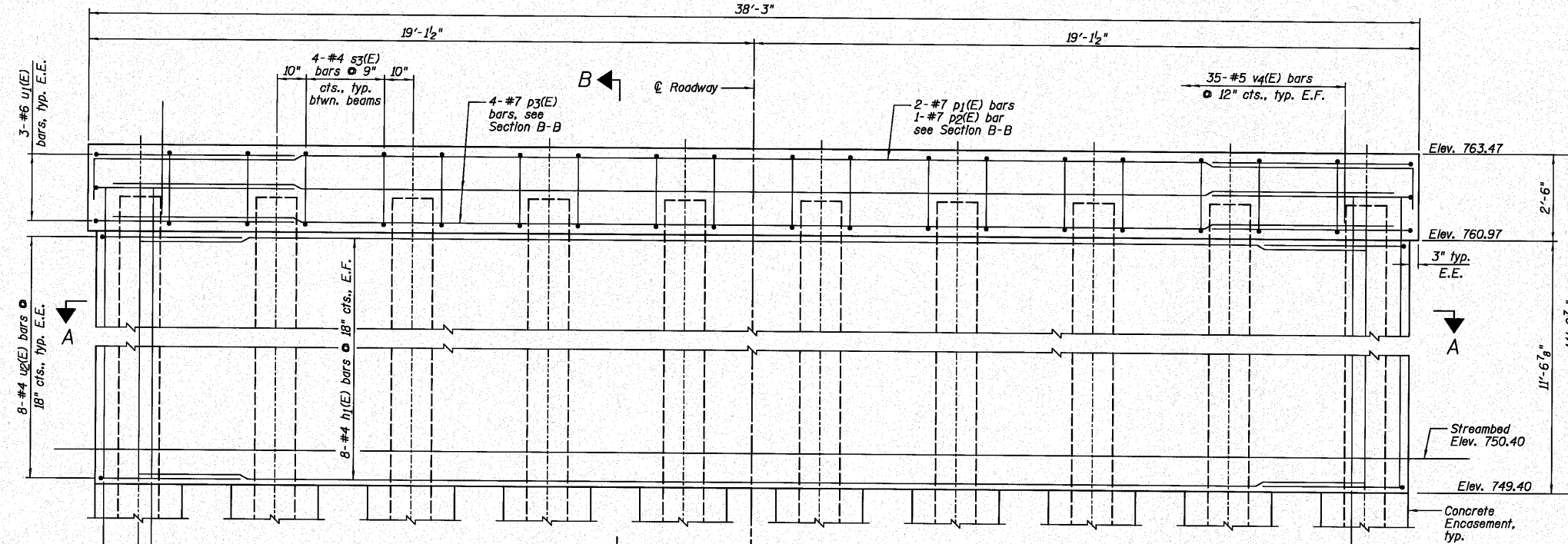


TOP PLAN

**PIER NO. 1
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	16	#4	35'-9"	—
p1(E)	2	#7	38'-7"	—
p2(E)	1	#7	40'-1"	—
p3(E)	4	#7	36'-3"	—
s3(E)	36	#4	10'-5"	□
u1(E)	6	#6	13'-0"	C
u2(E)	16	#4	9'-3"	C
v4(E)	70	#5	3'-3"	—
v5(E)	54	#4	12'-8"	—

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	46
Concrete Structures	Cu. Yd.	50.4
Concrete Encasement	Cu. Yd.	4.3
Reinforcement Bars, Epoxy Coated	Pound	2,080
Furnishing Metal Shell Piles 14" x 0.250"	Foot	477
Driving Piles	Foot	477
Test Pile Metal Shells	Each	1
Underwater Structure Excavation Protection - Location 1	Each	1



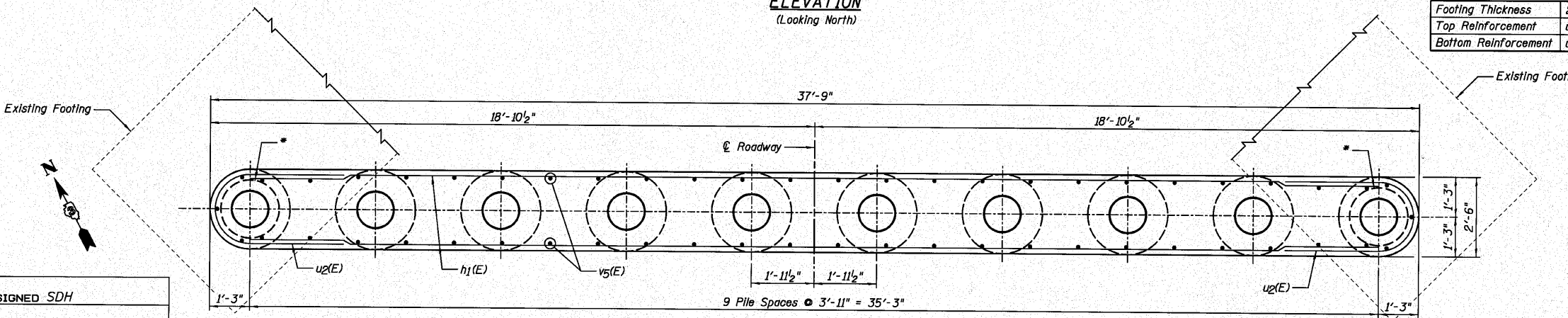
ELEVATION
(Looking North)

EXISTING FOOTING INFORMATION

Footing Thickness	2 Feet
Top Reinforcement	unknown
Bottom Reinforcement	unknown

NOTES:

- If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed under water into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation 1'-0" above the water line at the time of construction.
- E.F. denotes Each Face and E.E. denotes Each End.
- See Sheet B14 for Section B-B.
- *Pile location coincide with the limits of the existing footing. These piles should be driven through a 2' diameter precored hole in the existing footing extending to elevation 744.00 according to Article 512.09(c). Adjacent piles may need to be cored also, due to their close proximity to the existing footing. Cost included in Driving Piles.



SECTION A-A

**PIER NO. 1
STRUCTURE NO. 006-0182**

DESIGNED	SDH
CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW

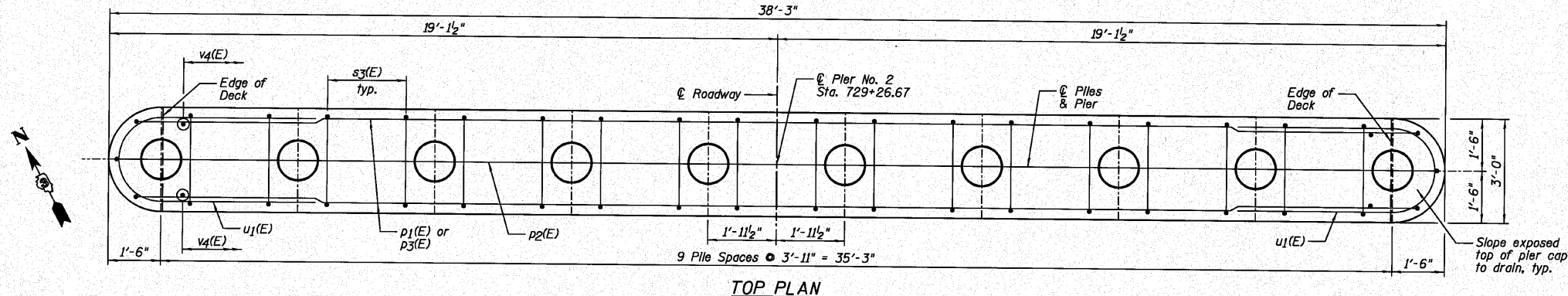
DATE 10/08/10

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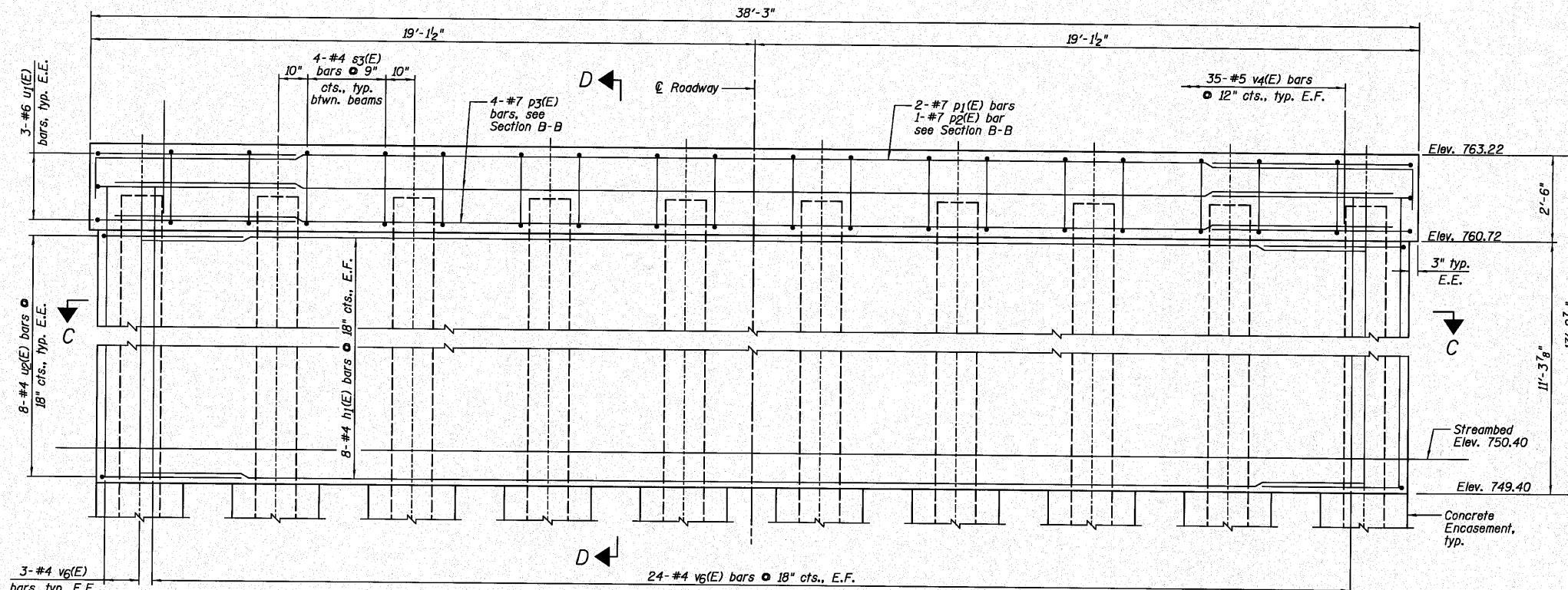
SHEET NO. B12
17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BR)BR	BUREAU	39	25
CONTRACT NO. 66909				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

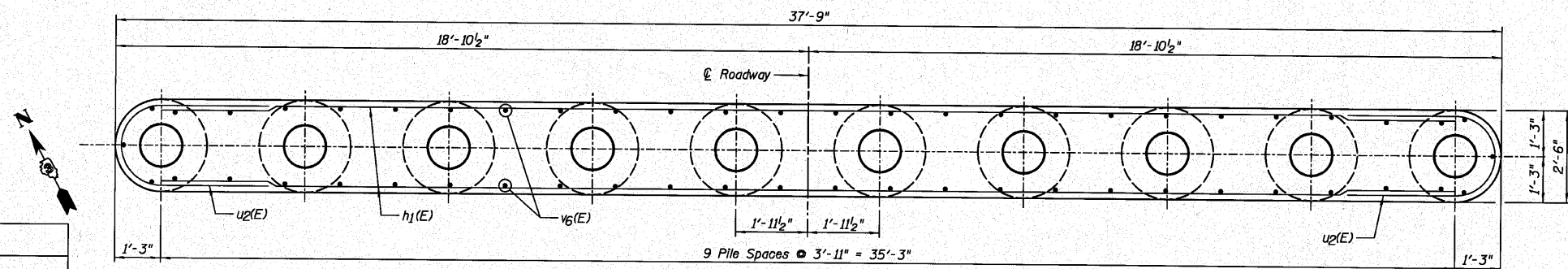
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TOP PLAN



ELEVATION
(Looking North)



SECTION C-C

PIER NO. 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	16	#4	35'-9"	—
p1(E)	2	#7	38'-7"	—
p2(E)	1	#7	40'-1"	—
p3(E)	4	#7	36'-3"	—
s3(E)	36	#4	10'-5"	□
u1(E)	6	#6	13'-0"	C
u2(E)	16	#4	9'-3"	C
v4(E)	70	#5	3'-3"	—
v6(E)	54	#4	12'-5"	—
Item	Unit	Quantity		
Structure Excavation	Cu. Yd.	28		
Concrete Structures	Cu. Yd.	49.5		
Concrete Encasement	Cu. Yd.	4.3		
Reinforcement Bars, Epoxy Coated	Pound	2,070		
Furnishing Metal Shell Piles 14" x 0.250"	Foot	470		
Driving Piles	Foot	470		
Pile Shoes	Each	10		
Underwater Structure Excavation Protection - Location 2	Each	1		

PILE DATA:

Pile Type and Size	Metal Shell - 14 in. dia. x 0.250 in. walls with pile shoes
Nominal Required Bearing	292 kips
Factored Resistance Available	161 kips
Estimated Pile Length	47 Feet
Number of Production Piles	10
Number of Test Piles	0

NOTES:

- 1.) If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed under water into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation 1'-0" above the water line at the time of construction.
- 2.) E.F. denotes Each Face and E.E. denotes Each End.
- 3.) See Sheet B14 for Section D-D.

PIER NO. 2
STRUCTURE NO. 006-0182

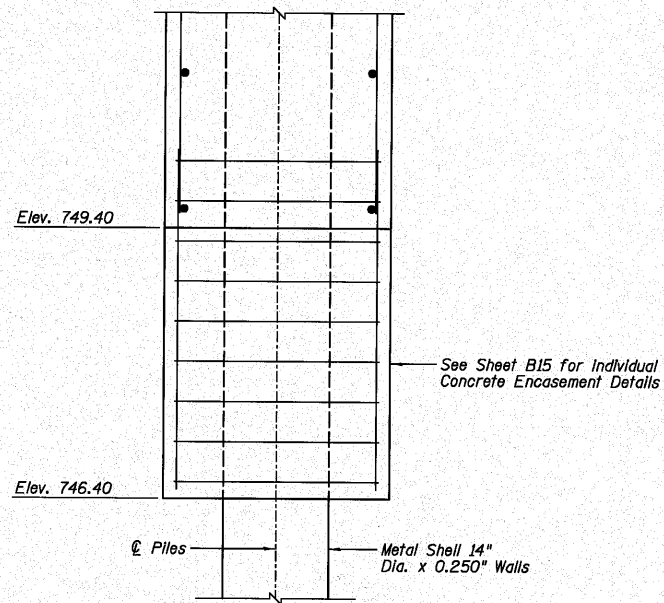
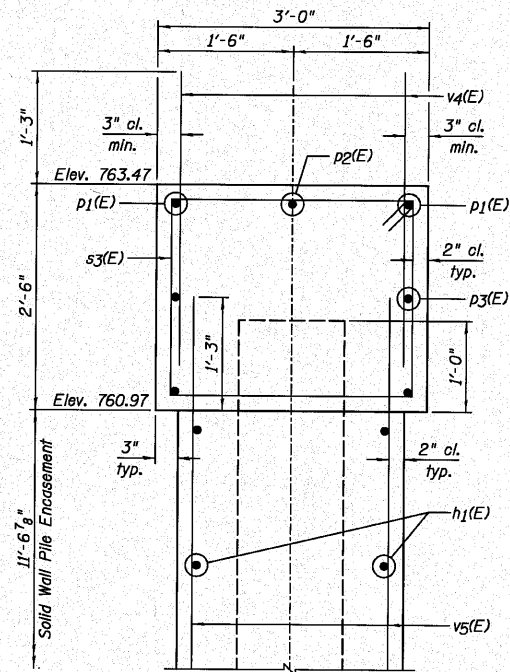
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CHECKED	JML
DRAWN	DJM/JWK
CHECKED	MSW
DATE	10/08/10

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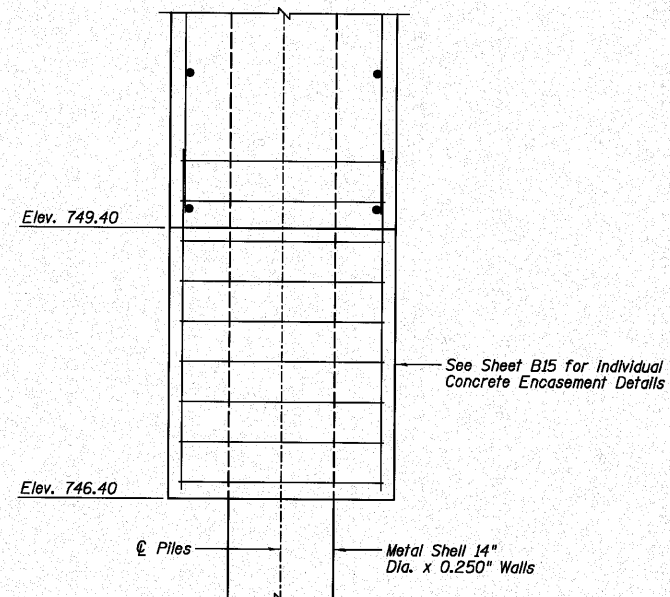
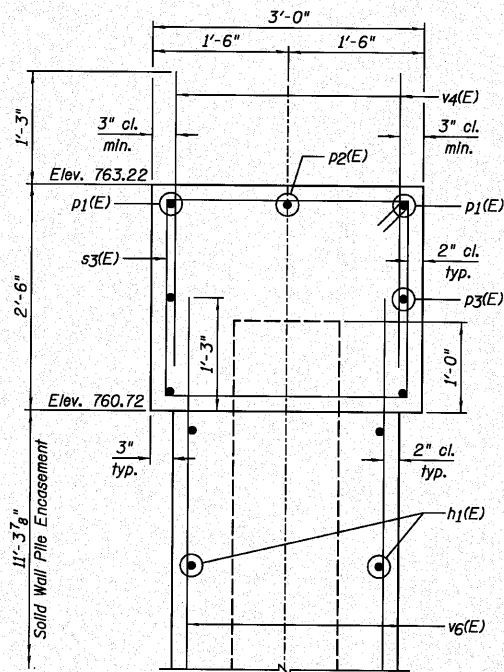
SHEET NO. B13
17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BR)BR	BUREAU	39	26
CONTRACT NO. 66909				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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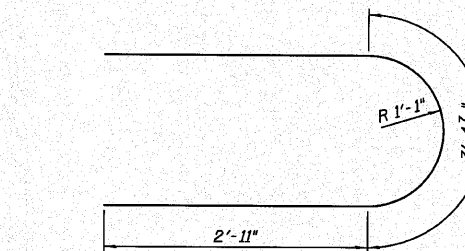
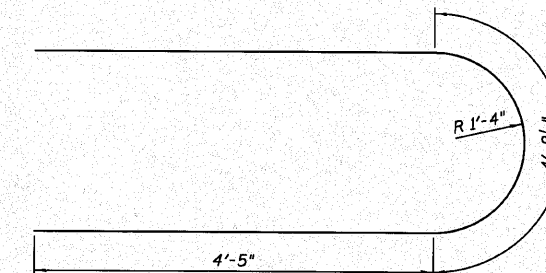
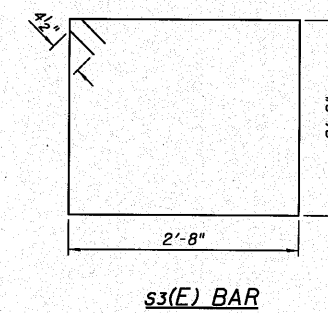
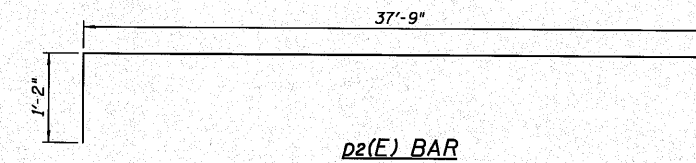
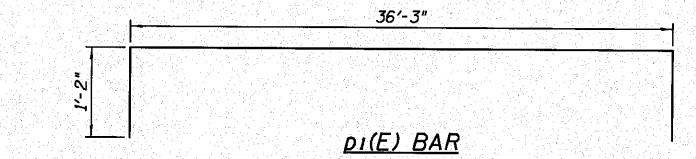
SECTION B-B



SECTION D-D

NOTES:

- 1.) If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.02 of the Standard Specifications to an elevation 1'-0" above the water line at the time of construction.
- 2.) See Sheet B12 for location of Section B-B.
- 3.) See Sheet B13 for location of Section D-D.



PIER DETAILS
STRUCTURE NO. 006-0182

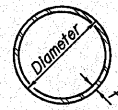
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DRAWN DJM/JWK
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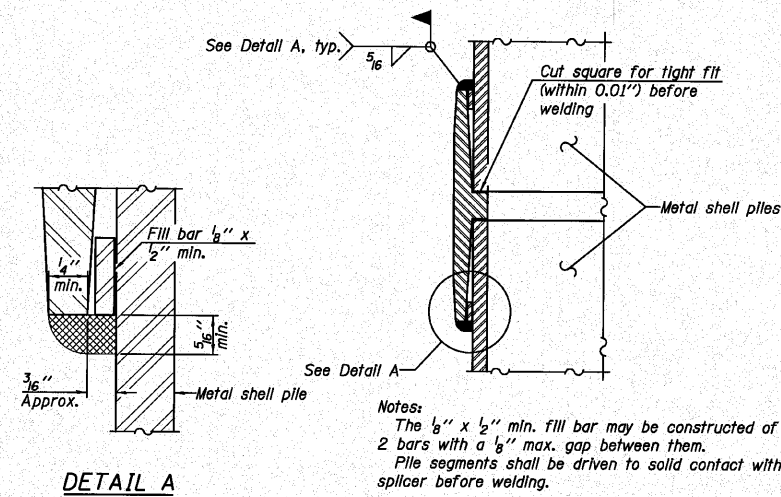
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	CONTRACT NO. 66909				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
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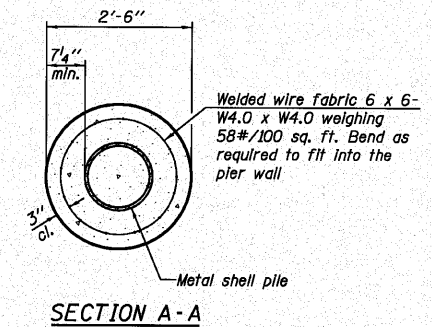
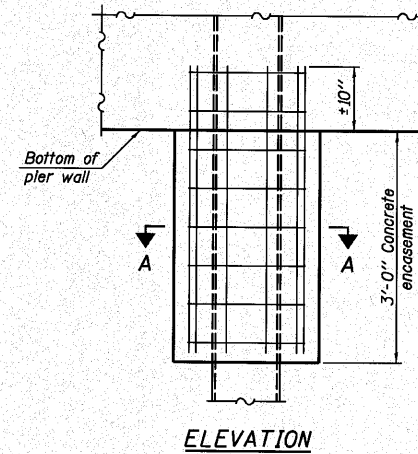
METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



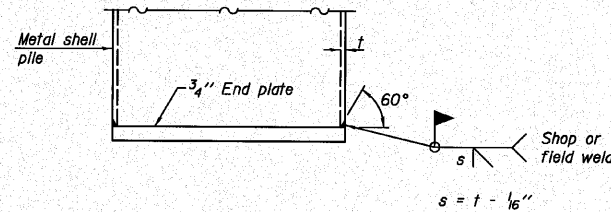
Notes:
The 1/2" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE

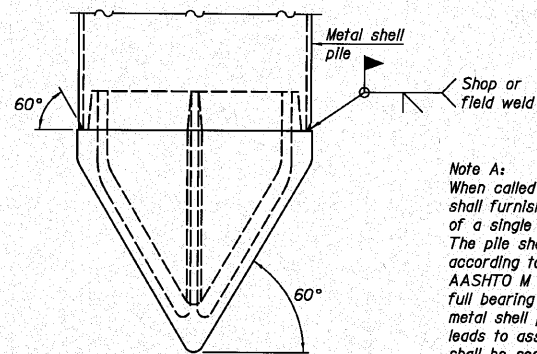


Note:
Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS

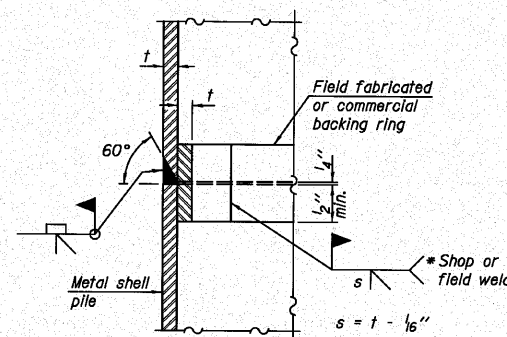


END PLATE ATTACHMENT



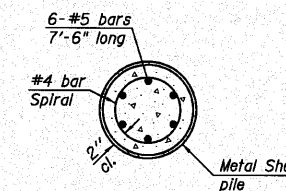
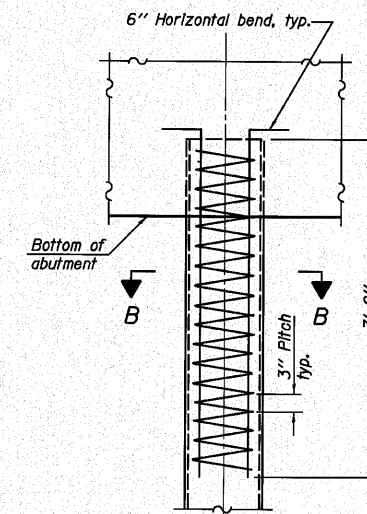
METAL SHELL PILE SHOE ATTACHMENT
(See Note A)

Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

DESIGNED SDH
CHECKED JML
DRAWN DJM/JWK
CHECKED MSW

DATE 10/08/10

F-MS

7-1-10

METAL SHELL PILE DETAILS
STRUCTURE NO. 006-0182

Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1671 fax	SHEET NO. B15	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17 SHEETS	1249	(23 BR)BR	BUREAU	39	28
		CONTRACT NO. 66909				
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department
of Transportation
Division of Highways
District #5, Ottawa

SOIL BORING LOG

Page 1 of 2

Date 8/16/83

ROUTE SBI 18 (US 34) DESCRIPTION Pike Creek 006-0076 LOGGED BY R. Wildman

SECTION 23BR LOCATION NE 1/4, SEC. 25, TWP. 18N, R1G. 10E, 4th PM

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D (ft)	B (#6")	U (tsf)	M (%)	Description	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Wash ft	D (ft)	B (#6")	U (tsf)	M (%)
006-0076 729+00	B-1 729+70 42.00ft RL 758.9					Medium, Silt Loam, Black								
						Dense, Same as above								
			6											
			7											
	755.40		9		20	Very Dense, Same as above								
			7			Medium, Silt Loam, Grey		733.90						
	752.90		12			Medium, Sand & Gravel, Brown, Medium						0.6	25	
			12									7	B	
			9			Very Soft, Silt Loam, Grey								
			7									0.2	27	
			9									12	B	
			7			Dense, Fine Sand								
			12			Medium, Same as above							0.6	23
			26									20	P	
	746.40		5			Stiff, Grey Silty Clay w/Silt Lenses								
			7	1.6	27	Same as above							0.5	23
			8	B									7	B
	743.90		12			Dense, Grey Silt								
			17	0.8	23	Very Soft, Silt Loam, Grey							0.2	24
			18	S									5	B
	741.40		8			Very Loose, Fine Sand, Grey		721.40						
			12			Dense, Fine Sand, Grey								
			12											
	738.90													

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. 8-89)



Illinois Department
of Transportation
Division of Highways
District #5, Ottawa

SOIL BORING LOG

Page 2 of 2

Date 8/16/83

ROUTE SBI 18 (US 34) DESCRIPTION Pike Creek 006-0076 LOGGED BY R. Wildman

SECTION 23BR LOCATION NE 1/4, SEC. 25, TWP. 18N, R1G. 10E, 4th PM

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D (ft)	B (#6")	U (tsf)	M (%)	Description	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	Wash ft	D (ft)	B (#6")	U (tsf)	M (%)
006-0076 729+00	B-1 729+70 42.00ft RL 758.9					Very Loose, Fine Sand, Grey								
						Dense, Fine Sand, Grey (continued)								
			15											
			25											
	716.40		3			Medium, Silty Clay, Grey								
			4	0.5	22									
			5	B										
			6			Stiff, Silty Clay, Grey w/Gravel								
	710.40		12	1.4	22	Dense, Sand, Medium Texture								
			29	B										
			15			Dense, Sand & Gravel, Medium Sand								
			17											
			18											
			17			Dense, Sand & Gravel								
			22											
			24											
	699.90					End of Boring								

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. 8-89)

DESIGNED SDH
CHECKED JML
DRAWN DJM/JWK
CHECKED MSW


DATE 10/08/10

SOIL BORING LOGS
STRUCTURE NO. 006-0182

Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax	SHEET NO. B16	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17 SHEETS	1249	(23 BR)BR	BUREAU	39	29
			CONTRACT NO. 66909			
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Page 1 of 2



Illinois Department of Transportation
Division of Highways
District #1, Ottawa

SOIL BORING LOG

Date 8/18/83

ROUTE SBI 18 (US 34) DESCRIPTION Pike Creek, 006-0076 LOGGED BY R. Wildman

SECTION 23BR LOCATION NE 1/4, SEC. 25, TWP. 18N, RNG. 10E, 4th PM


COUNTY Bureau DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D (ft)	B (#6")	U (tsf)	M (%)	Description				D (ft)	B (#6")	U (tsf)	M (%)
						Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter				
006-0076 729+00	B-2 728+50 37.00ft LL 758.9				16	Medium, Silt Loam, Black				0	1		
						Medium, Fine Sand, Grey				1	11		
						Very Stiff, Silt Loam, Brown	754.90	8	2.3	13			
						Sandy Clay Loam w/Small Gravel		6	S				
						Dirty Grey Sand & Gravel Loose w/Silt Lenses	752.40	4	0.5	13			
						Stiff, Silt Loam, Grey	733.40	2	P		10	1.2	24
						Same as above		4	0.5	27			
						Stiff Grey Silt		2			3		
						Medium, Sand, Fine, Grey	727.40	4			5	1.2	24
						Stiff, Silty Clay, Grey with Sand Lenses		6	1.6	26			
						Soft, Silty, Grey with Sand Lenses		7	B		7	B	
						Stiff, Silt Loam, Grey	722.40	5					
						Loose, Fine Sand, Grey	740.90	8	0.4	26			
						Dense, Fine Sand, Grey	720.40	9	S		9		
							738.90	2			16	1.2	24
								3			27	B	
							718.90	4			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)

Page 2 of 2



Illinois Department of Transportation
Division of Highways
District #1, Ottawa

SOIL BORING LOG

Date 8/18/83

ROUTE SBI 18 (US 34) DESCRIPTION Pike Creek, 006-0076 LOGGED BY R. Wildman

SECTION 23BR LOCATION NE 1/4, SEC. 25, TWP. 18N, RNG. 10E, 4th PM

COUNTY Bureau DRILLING METHOD _____ HAMMER TYPE _____


STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	D (ft)	B (#6")	U (tsf)	M (%)	Description				D (ft)	B (#6")	U (tsf)	M (%)
						Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter				
006-0076 729+00	B-2 728+50 37.00ft LL 758.9					Medium Sand & Gravel, Grey							
						Medium, Silt Loam, Grey	716.90	4			4	0.9	21
						Stiff, Silty Clay, Grey w/Gravel		6	B				
						Dense, Sand, Medium Texture	710.40	12	1.4	22			
						Dense, Sand & Gravel, Medium Sand		29	B				
						Dense, Sand & Gravel		15			17		
								17			18		
								29					
								15					
								17					
								22					
								24					
								699.90					
								60					

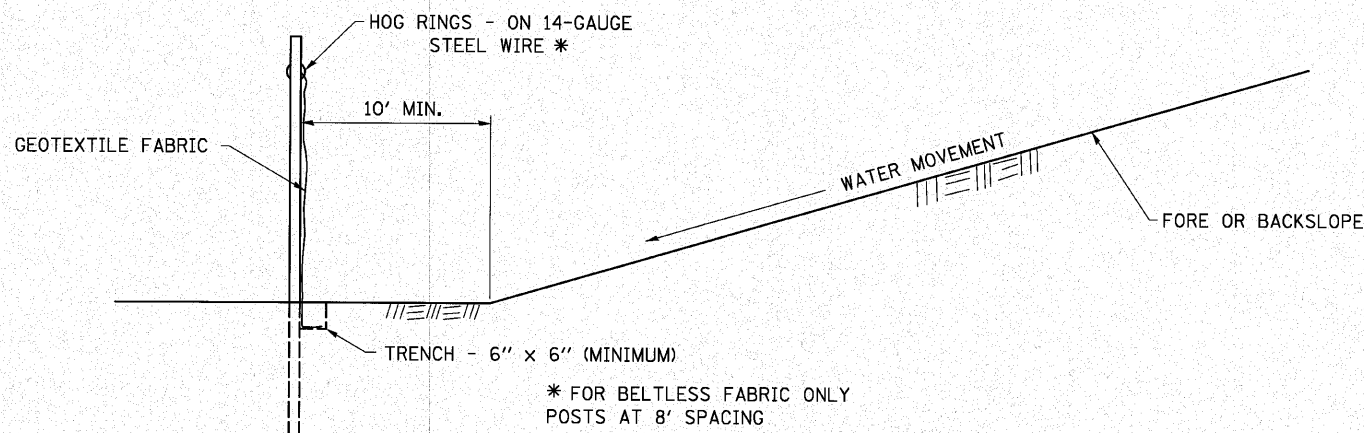
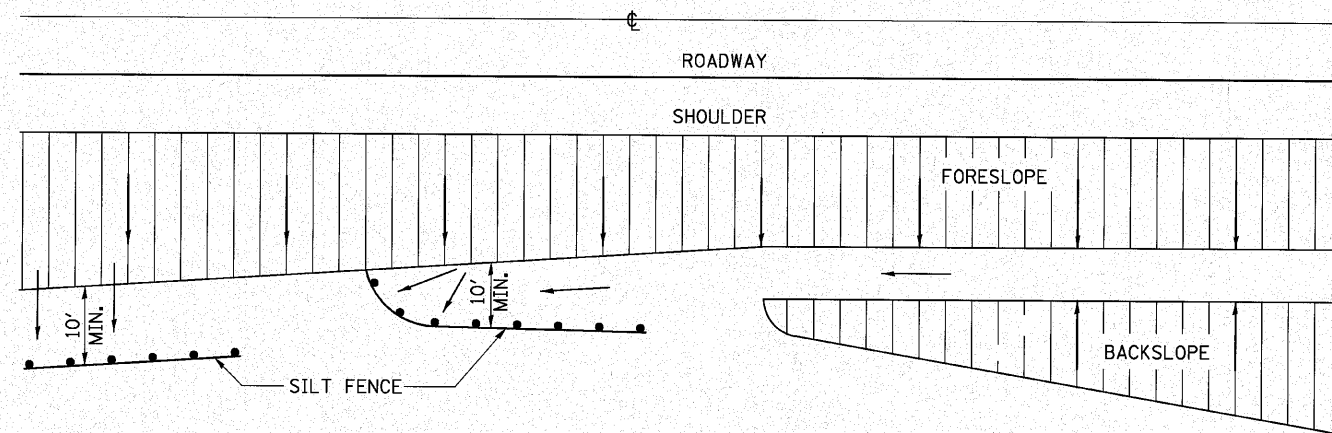
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

DESIGNED SDH
CHECKED JML
DRAWN DJM/JWK
CHECKED MSW
DATE 10/08/10

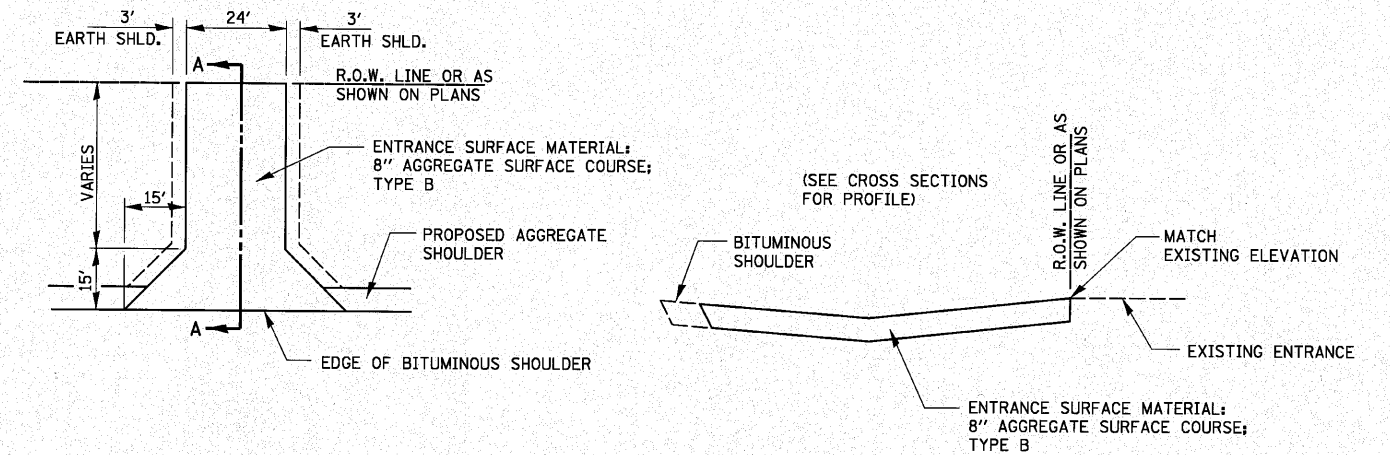
SOIL BORING LOGS
STRUCTURE NO. 006-0182

 Farnsworth GROUP, INC. 2709 McGraw Drive Bloomington, Illinois 61704 309/863-8435, 309/863-1571 fax	SHEET NO. B17 17 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 66909				
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

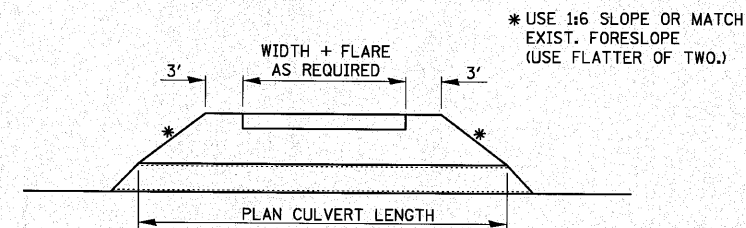


DETAILS OF SILT FENCE

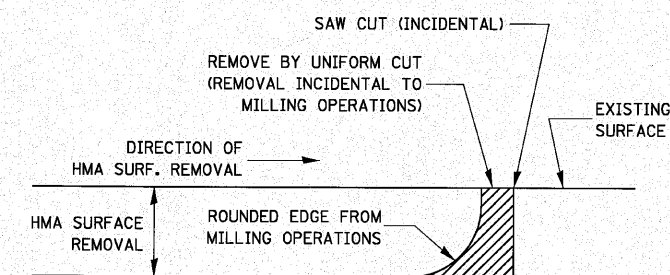
EROSION CONTROL DETAILS FOR SILT FENCE



SECTION A-A



FIELD ENTRANCE DETAIL



NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

HMA DETAIL AT BUTT JOINTS

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -
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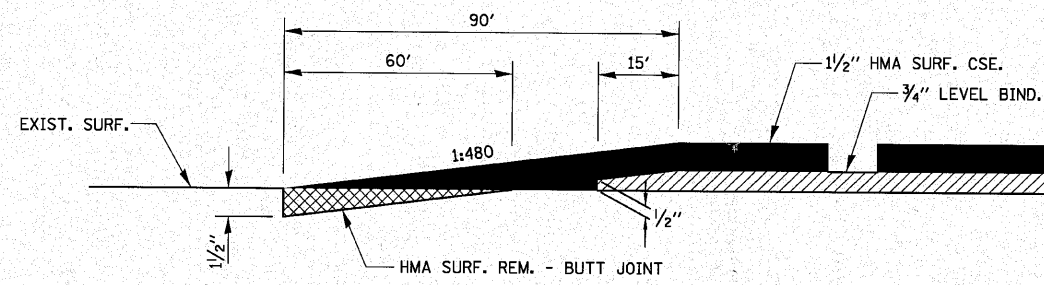
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS		F.A.S. RTE. 1249	SECTION (23 BR)BR	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 31
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		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

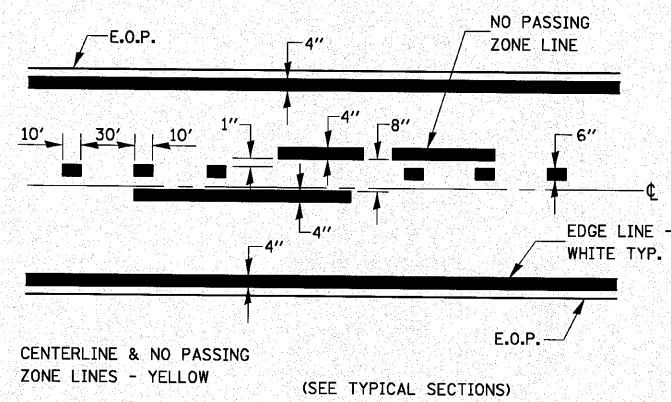
FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

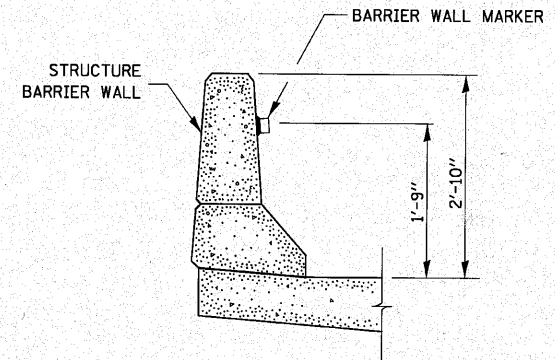
24-8372



HMA DETAIL AT BUTT JOINTS



PAVEMENT MARKING

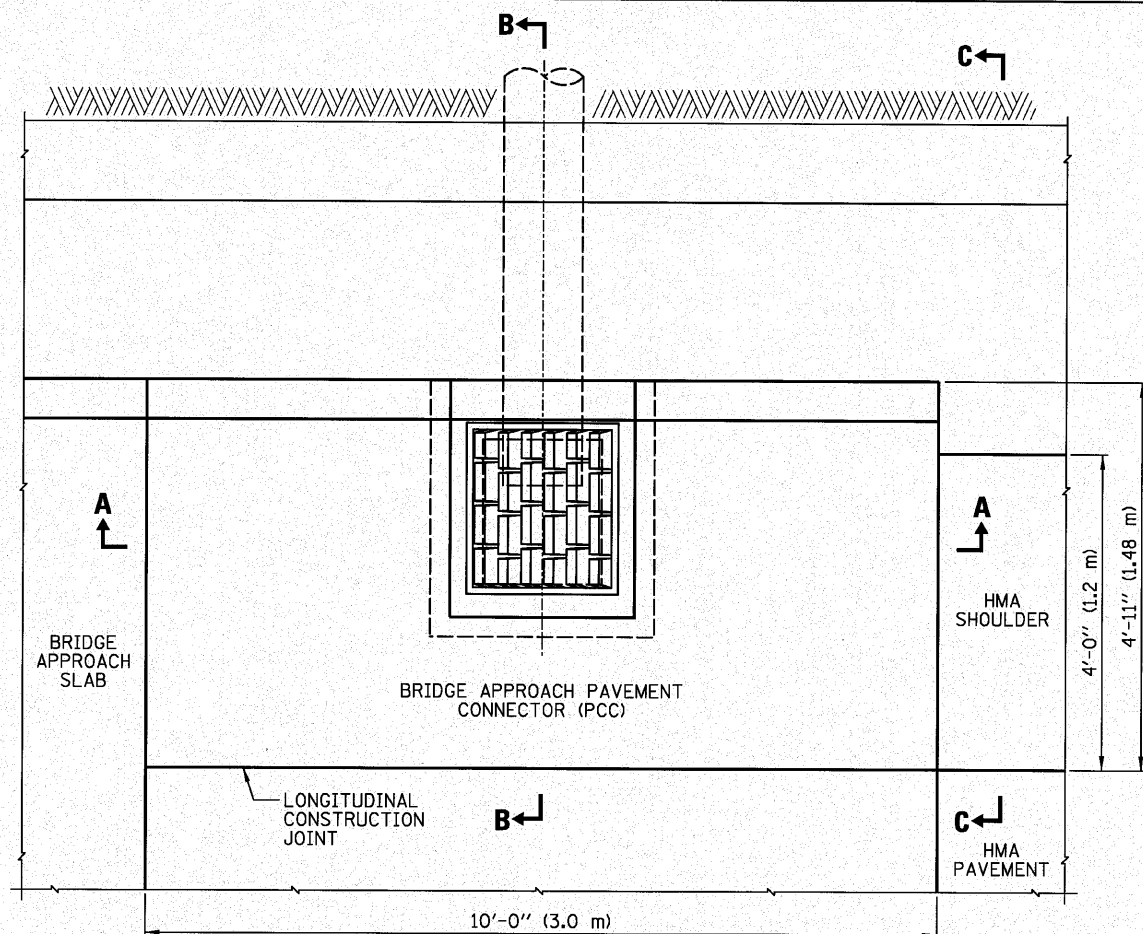


BARRIER WALL MARKER

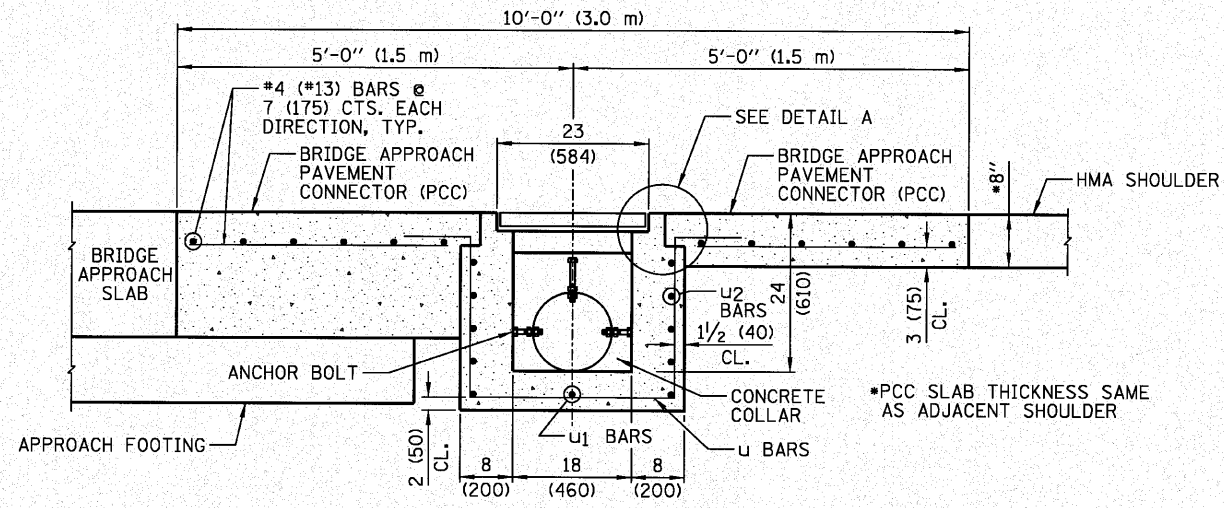
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	PLOT DATE = #DATE#	DATE - 10/08/10	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

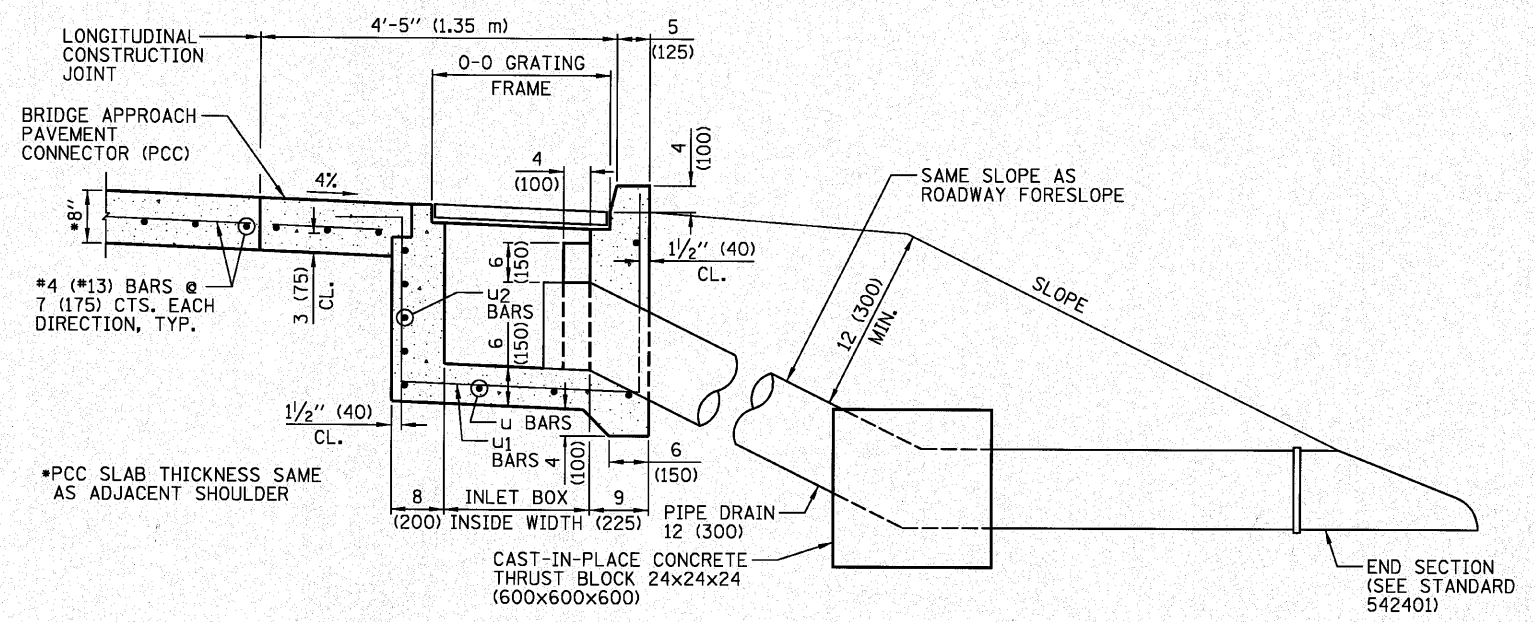


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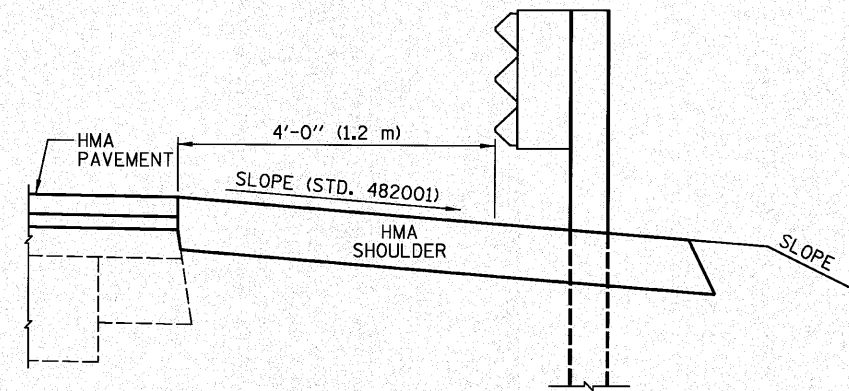


SEC. A-A

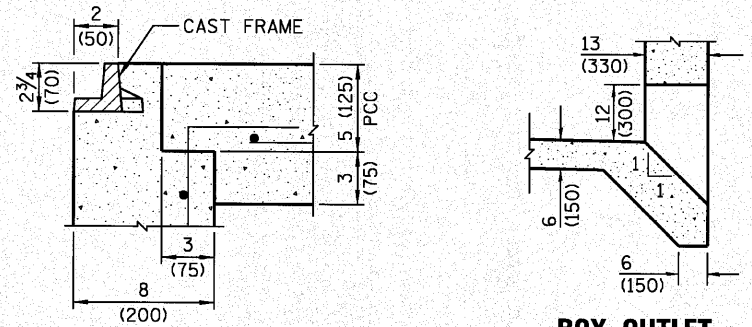
INLET TYPE	SHOULDER WIDTH	O-O GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
Type B	Less than 5' (1.5 m)	2'-3" (0.690 m)	1'-10" (0.560 m)	18 (460)



SEC. B-B

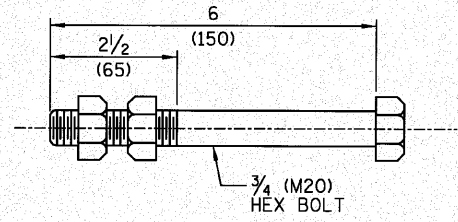


SECTION C-C



DETAIL A

BOX OUTLET WHEN PRECAST



ANCHOR BOLT

(USED TO TIE PIPE TO CONCRETE COLLAR)

GENERAL NOTES

ALL EXPOSED EDGES OF THE INLET, EXCEPT THE UPPER PERIMETER, SHALL BE BEVELED 3/4 (20).

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

TYPE B INLET BOX, STANDARD 609006 (SPECIAL)

(SHEET 1 OF 2)

FILE NAME =	USER NAME = #USER*	DESIGNED - JML	REVISED -
#FILE#		DRAWN - JJO	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

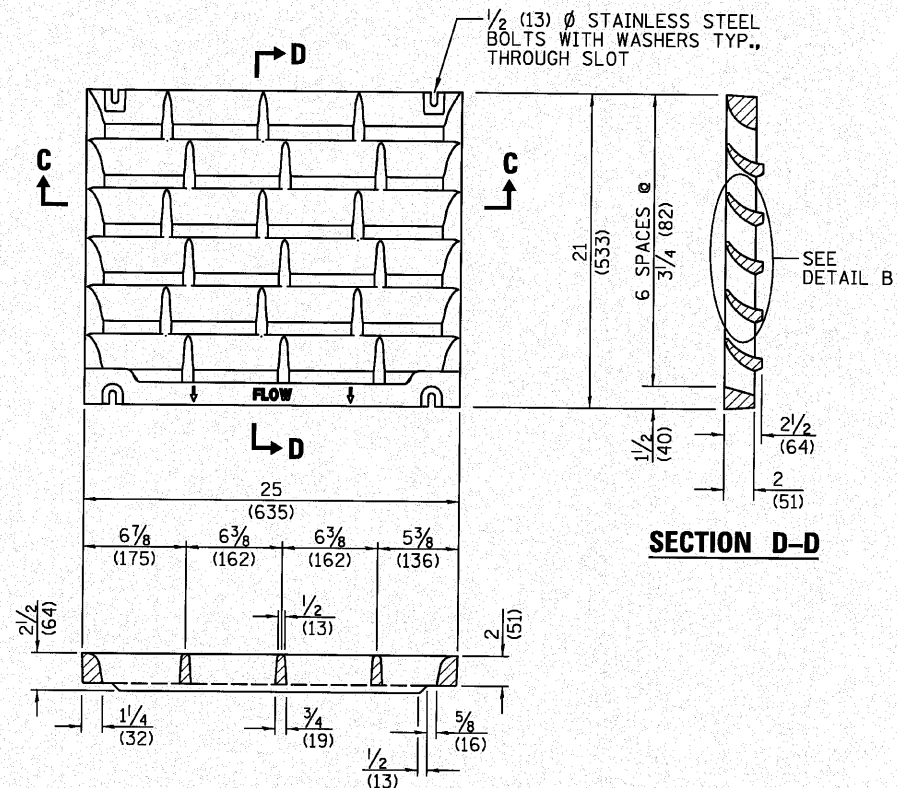
DETAILS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BRIBR	BUREAU	39	33
CONTRACT NO. 66909				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FARNSWORTH GROUP, INC.

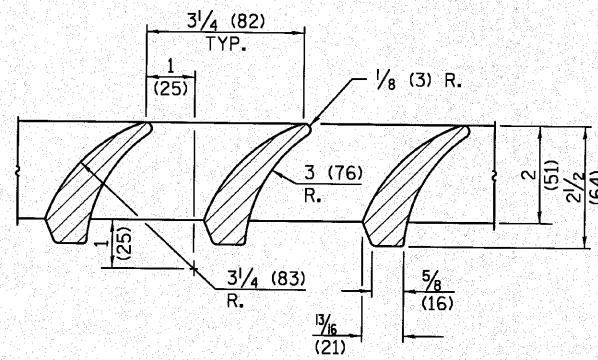
CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

24-8372

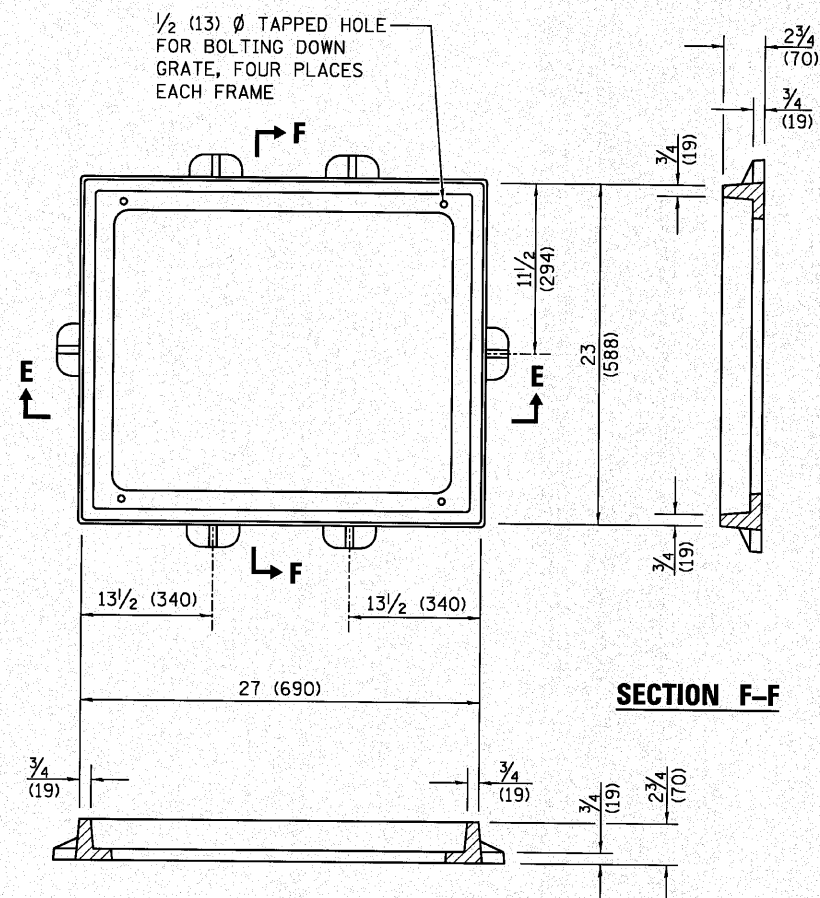


SECTION C-C

DETAIL OF CAST GRATE
TYPE B REQUIRES 1 GRATE



DETAIL B

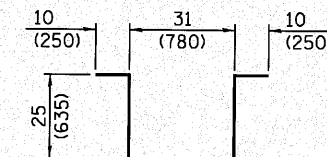


SECTION E-E

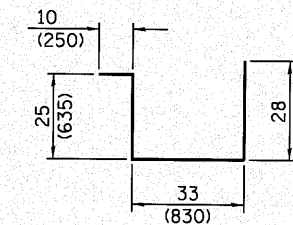
DETAIL OF CAST FRAME

INLET BOX

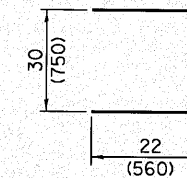
REQUIRED MATERIAL			
BAR	QTY.	SIZE	LENGTH
u	4	#4 (#13)	8'-5" (2.550 m)
u1	3	#4 (#13)	8'-0" (2.425 m)
u2	4	#4 (#13)	6'-2" (1.870 m)
CONCRETE		CU. YD. (m ³)	0.5 (0.4)
REINF. BARS		LBS. (kg)	55.0 (25.0)
GRATING		SQ. FT. (m ²)	3.6 (0.34)



BAR u



BARS u1



BARS u2

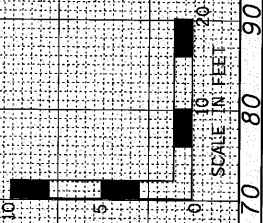
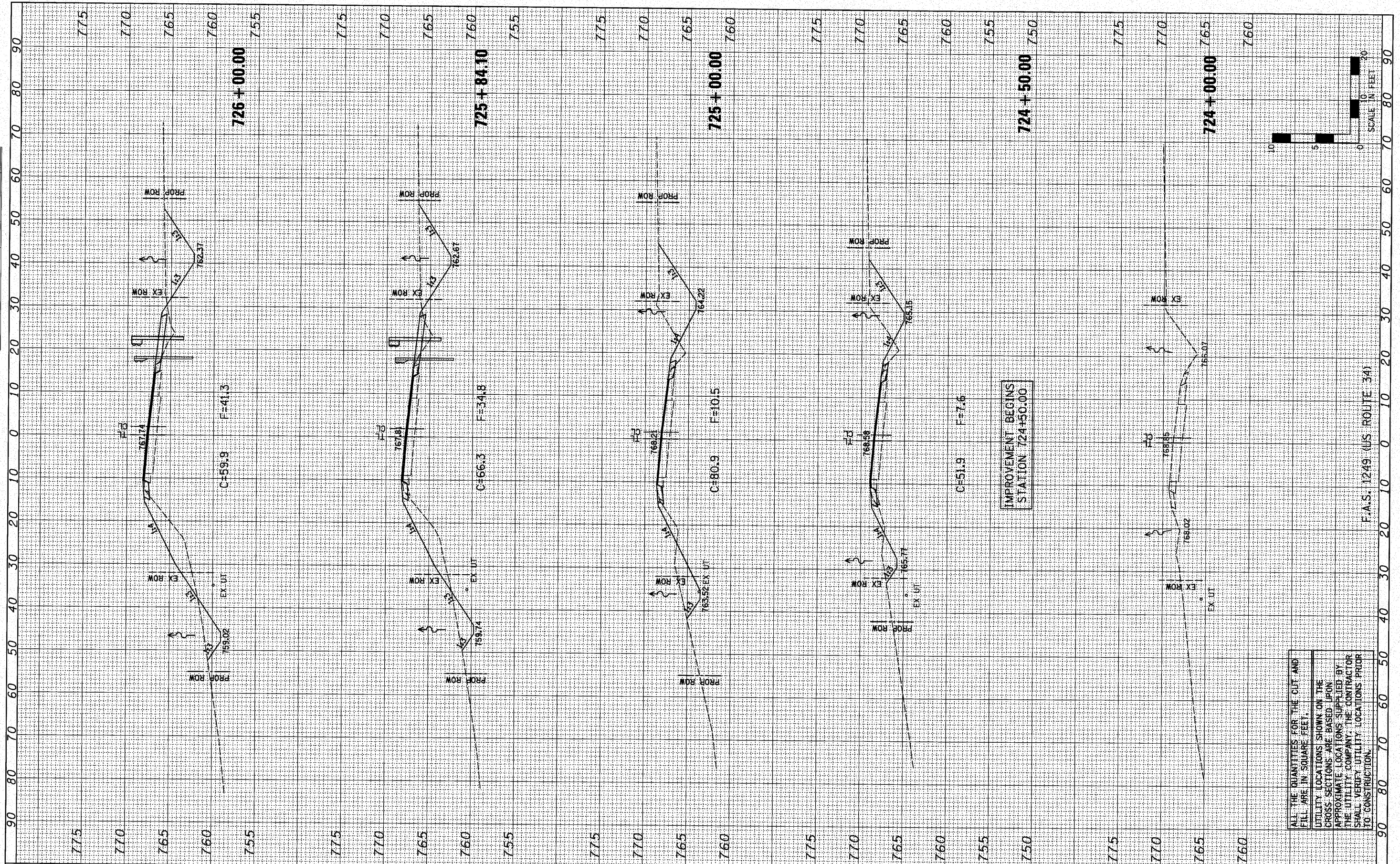
**TYPE B INLET BOX,
STANDARD 609006 (SPECIAL)**

(SHEET 2 OF 2)

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		DRAWN - JJO	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 66909
		CHECKED - MSW	REVISED -										
		DATE - 10/08/10	REVISED -										

FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		



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 PLOT DATE = #DATE#

DESIGNED - JML	REVISED -
DRAWN - JJO	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/08/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

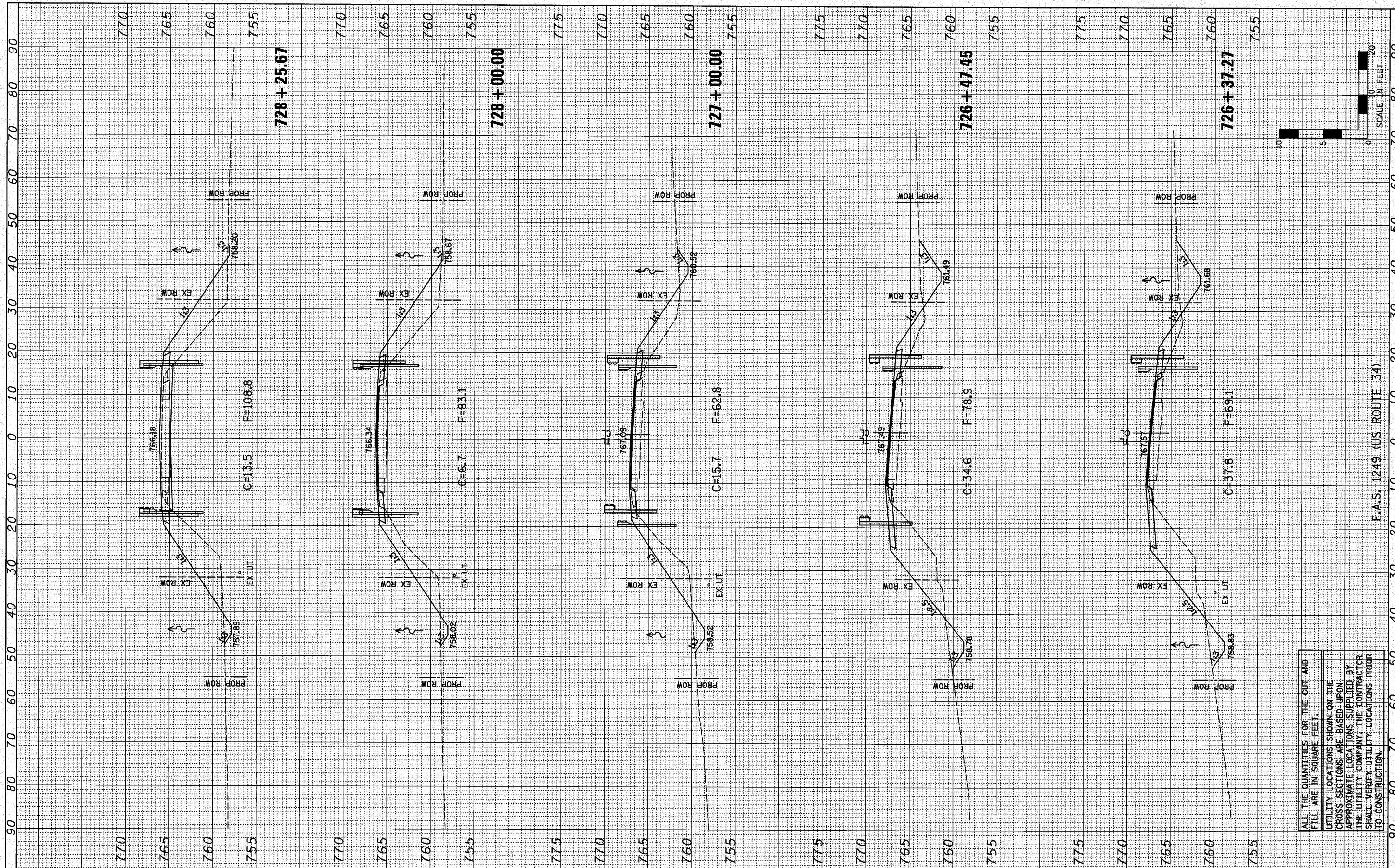
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F.A.S. RTE. 1249	SECTION 123 BR/BR	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 35
CONTRACT NO. 66909				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

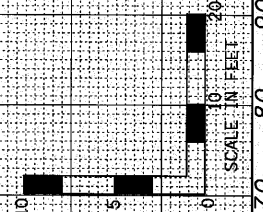
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.
 UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

FINAL SURVEY	BY	DATE
SURVEY		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEY		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		



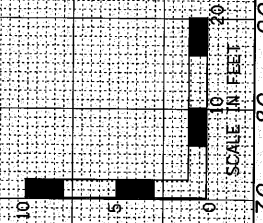
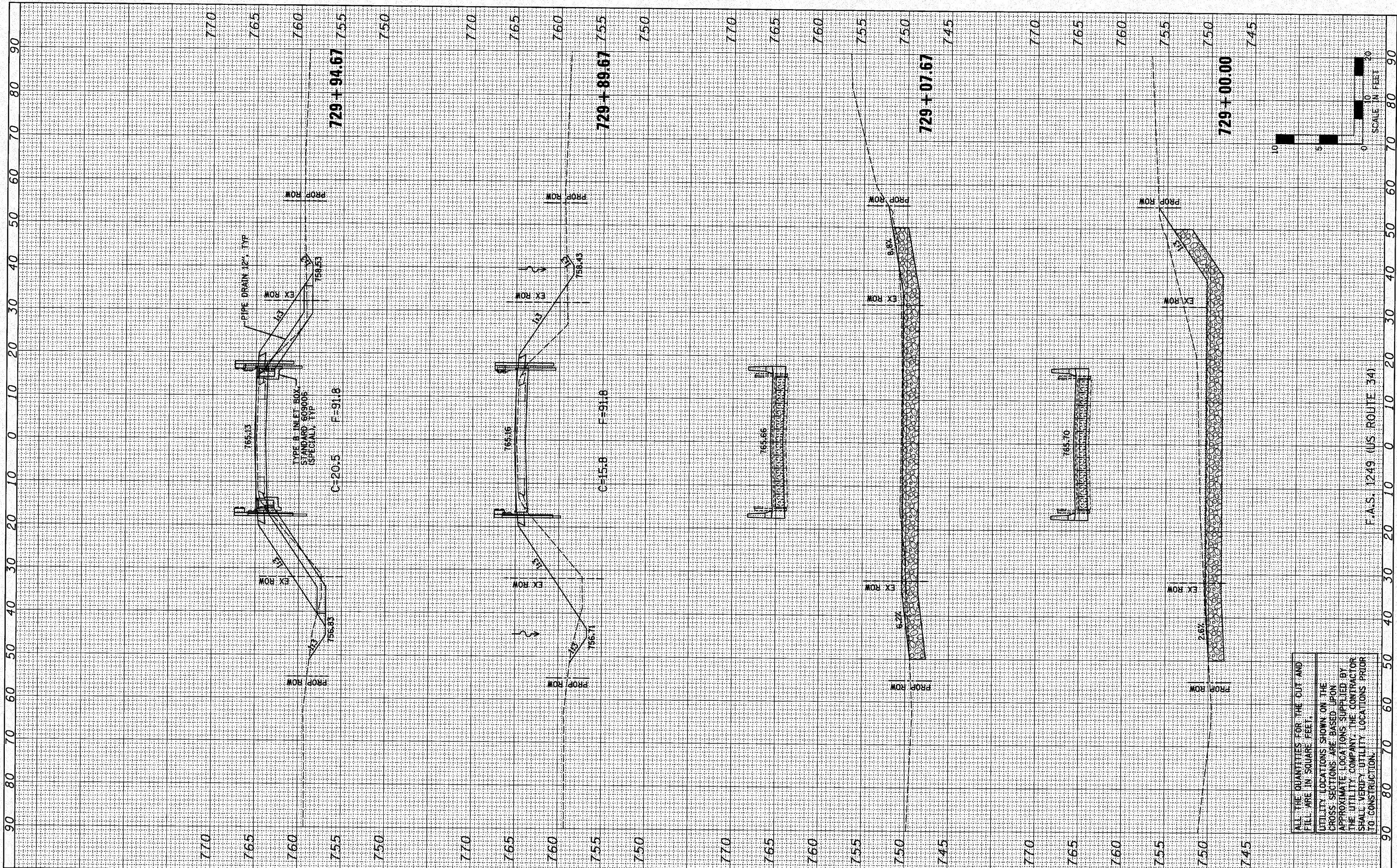
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.
 UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.



FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			F.A.S. RTE. 1249	SECTION (23 BR/R)	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 36
	PLOT SCALE * #SCALE#	CHECKED - MSW	REVISED -		SCALE: 1"=10'	SHEET NO.	OF SHEETS	STA. 726+37.27	TO STA. 728+25.67	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 66909
	PLOT DATE * #DATE#	DATE - 10/08/10	REVISED -									

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

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



FILE NAME =
#FILE#

USER NAME = #USER#
DESIGNED - JML
DRAWN - JJO
CHECKED - MSW
DATE - 10/08/10

REVISIONS
REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

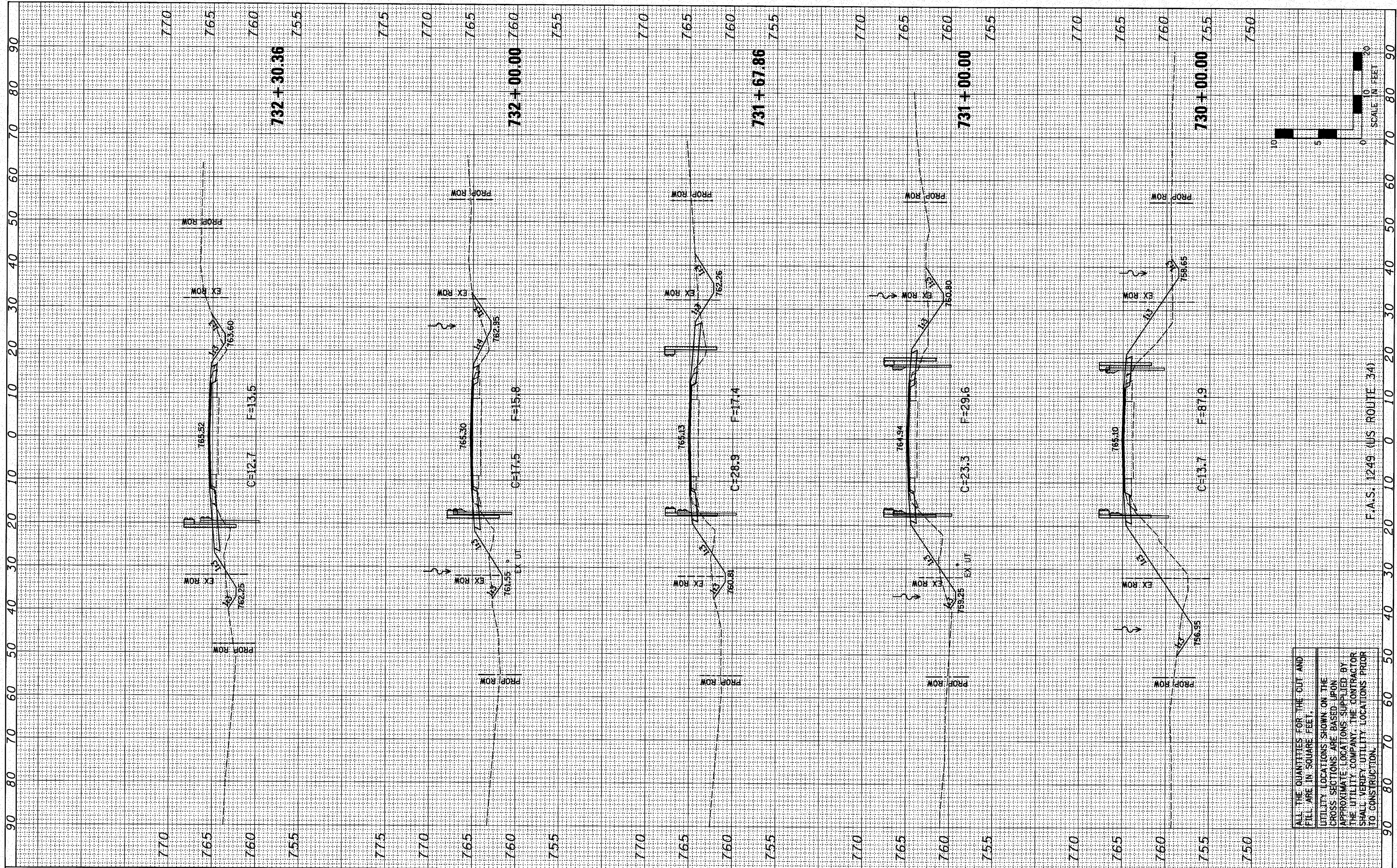
SCALE: 1"=10' SHEET NO. OF SHEETS STA. 729+00.00 TO STA. 729+94.67

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1249	(23 BR)BR	BUREAU	39	37
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 66909				

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FINAL SURVEY	BY	DATE
NO. _____		
NOTE BOOK		
NO. _____		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NO. _____		
NOTE BOOK		
NO. _____		
AREAS CHECKED		



FILE NAME = #FILE#

USER NAME = #USER#	DESIGNED - JML	REVISED -
DRAWN - JUO	CHECKED - MSW	REVISED -
PLOT SCALE = #SCALE#	DATE - 10/08/10	REVISED -
PLOT DATE = #DATE#		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

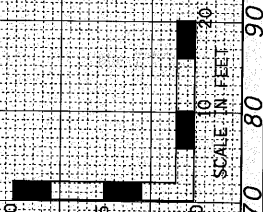
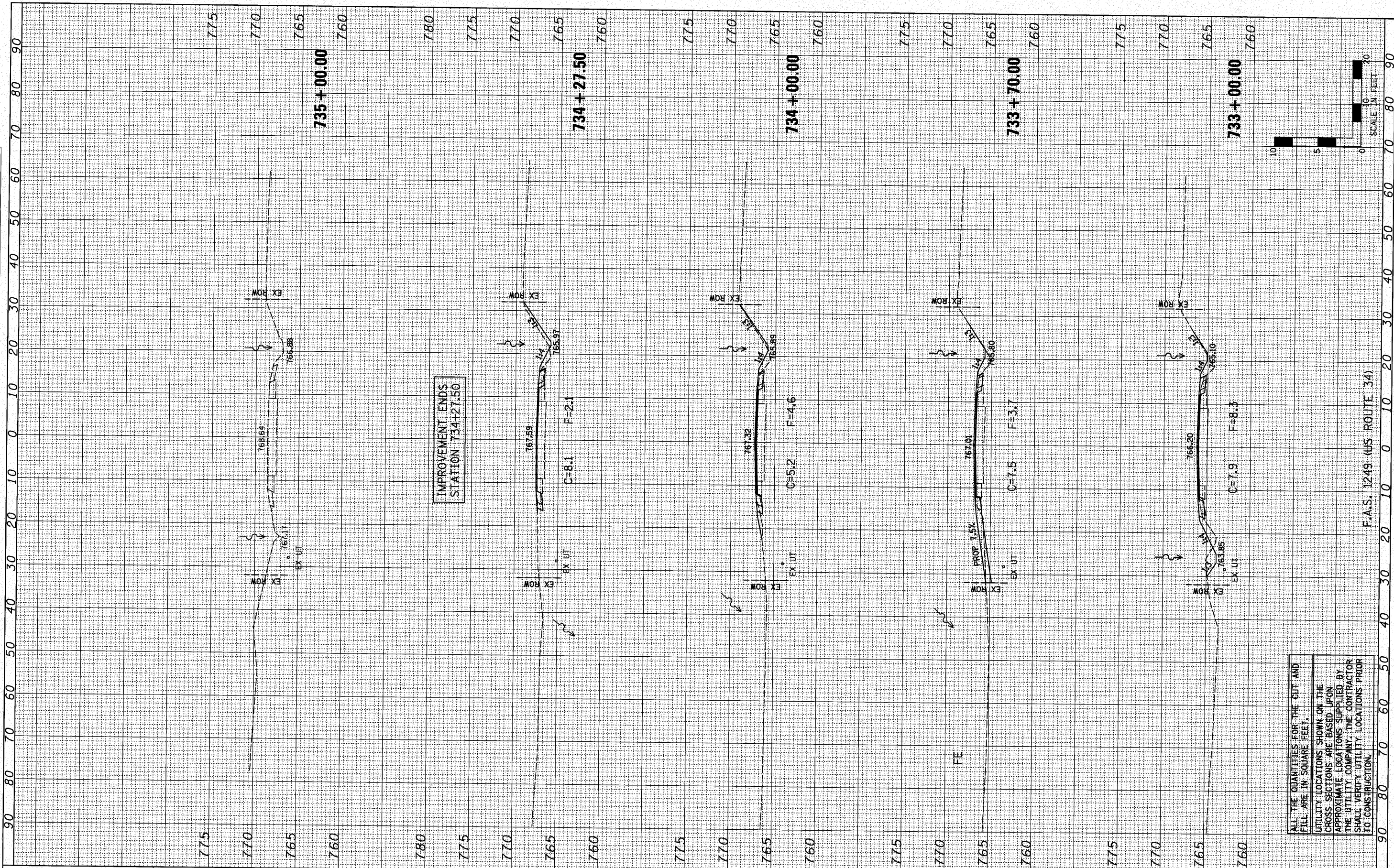
SCALE: 1"=10' SHEET NO. OF SHEETS STA. 730+00.00 TO STA. 732+30.36

F.A.S. RTE. 1249	SECTION (23 BRIBR)	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 38
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 66909	

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

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



FILE NAME - #FILE#	USER NAME - #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.S. RTE. 1249	SECTION (23 BROBR)	COUNTY BUREAU	TOTAL SHEETS 39	SHEET NO. 39		
		DRAWN - JJO	REVISED -			SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 733+00.00 TO STA. 735+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CONTRACT NO. 66909		
		CHECKED - MSW	REVISED -									
		DATE - 10/08/10	REVISED -									

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FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX