PROJECT ENGINEER - REBECCA MARRUFFO

SQUAD LEADER - BRAD CUSHMAN (815)284-5996

03-11-11 LETTING ITEM 152

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	Rock Island	25	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64E31		

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STATE STANDARDS

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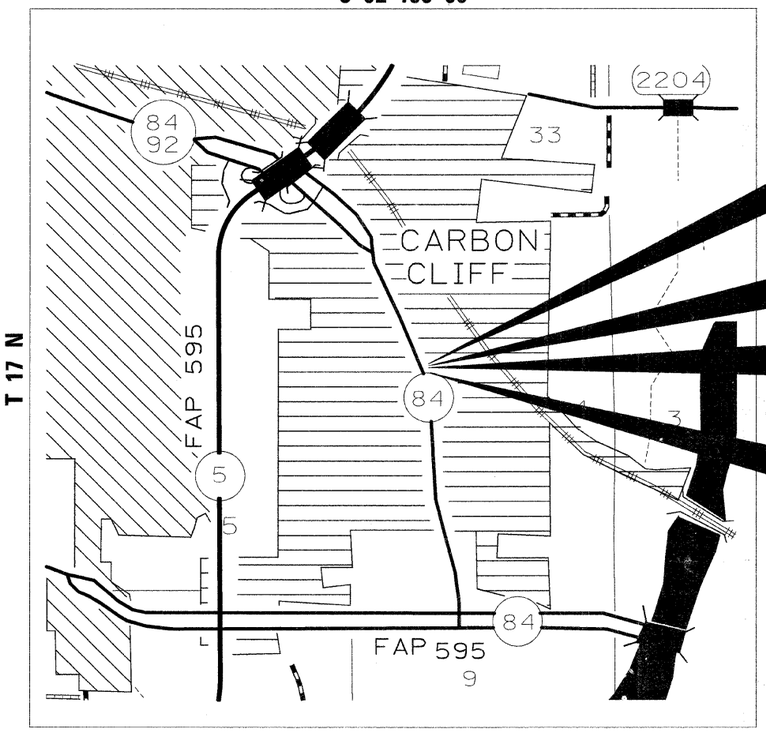
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU ROUTE 5857 (IL 84)
SECTION 1R-T
PROJECT M-5857(001)

ROCK ISLAND COUNTY

C-92-188-09



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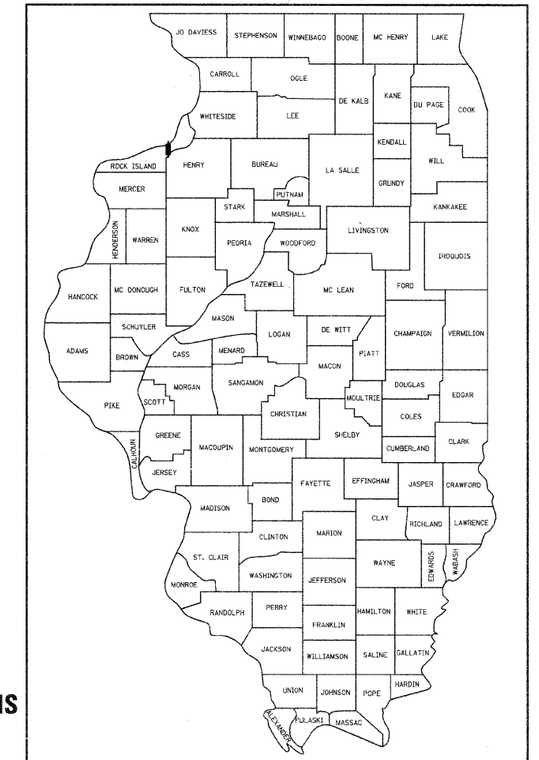

LOCATION OF SECTION INDICATED THUS: –

N

IMPROVEMENT BEGINS
STA. 67 + 77

SECTION BEGINS
STA. 68 + 74

SECTION ENDS
STA. 69 + 27

IMPROVEMENT ENDS
STA. 70 + 00

HAMPTON TOWNSHIP, SECTION 4

GROSS LENGTH = 53 FT. = 0.01 MILE
NET LENGTH = 53 FT. = 0.01 MILE

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

CONTRACT NO. 64E31

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 8 20 10
George F Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 10 20 10
Scott E. Stitt, P.E. /bc
Acting ENGINEER OF DESIGN AND ENVIRONMENT
December 10 20 10
Christine M. Reed /bc
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	URBAN 0040 80% FED 20% STATE TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 DIAMETER UNITS)	UNIT	48
	20100210	TREE REMOVAL (OVER 15 DIAMETER UNITS)	UNIT	54
	20200100	EARTH EXCAVATION	CU YD	110
	20200200	ROCK EXCAVATION	CU YD	22
*	25100630	EROSION CONTROL BLANKET	SQ YD	438
*	25200110	SODDING, SALT TOLERANT	SQ YD	278
*	25200200	SUPPLEMENTAL WATERING	UNIT	13
	28000305	TEMPORARY DITCH CHECKS	FOOT	20
	28000400	PERIMETER EROSION BARRIER	FOOT	171
	28000500	INLET AND PIPE PROTECTION	EACH	1
	28100107	STONE RIPRAP, CLASS A4	SQ YD	147
	28200200	FILTER FABRIC	SQ YD	470
	28400100	GABIONS	CU YD	288
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX"D", N50	TON	71
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	56
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	214
	44000400	GUTTER REMOVAL	FOOT	49
	44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	155
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	32
	50100300	REMOVAL OF EXISTING STRUCTURES NO.1	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	260

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	2
		CONTRACT NO. 64E31		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	URBAN 0040 80% FED 20% STATE TOTAL QUANTITY
	51500100	NAME PLATES	EACH	1
	54001001	BOX CULVERT END SECTIONS, CULVERT NO.1	EACH	2
	54010805	PRECAST CONCRETE BOX CULVERTS 8' X 5'	FOOT	146
	60600095	CLASS SI CONCRETE OUTLET	CU YD	2
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	88
	63500105	DELINEATORS	EACH	2
	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
	67100100	MOBILIZATION	L SUM	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	776
*	A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	3
*	A2006914	TREE, QUERCUS PALUSTRIS (PINK OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	3
*	A2007114	TREE, QUERCUS RUBRA (RED OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	3
	X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	60
	X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
	Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	10

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	3
		CONTRACT NO. 64E31		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

See cross sections for special ditches and backslopes.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits except where sodding is specified. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Meter (Cubic Yard) for EARTH EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Temporary Erosion Control Seeding shall be included in the cost of EARTH EXCAVATION.

Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The entire excavation, within 2 feet outside of each shoulder, shall be backfilled with trench backfill material to the bottom of the proposed subgrade. Impervious material shall be used on the outer 3 feet of each end of the culvert. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for the class of concrete involved or other unit price item of the work for which it is required.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface
PG:	PG 64-22
Design Air Voids	4.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5
Friction Aggregate	D
20 Year ESAL	0.5
Mix Unit Weight	112 lb/sy/in

A Nationwide 404 Permit has been issued for this project and the conditions of that permit must be adhered to.

The new number for this structure will be SN 081-1129.

The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Precast Concrete Box Culverts.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted. Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. The bottom of the marker shall be 5'-0" below the ground surface.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal and vertical coordinates must be derived by GPS and the elevation derived by a closed level circuit. The Engineer shall submit this information to the Survey Crew.

Tree planting layout shall be performed by the District Landscape Architect. Mulch shall be placed 4" thick and to the diameter around the tree as shown on District Standard 92.1. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

AT&T (Telephone)
Attn: Mr. Dave Creen 309/793-4456

MidAmerican Energy Co. (Electric)
Attn: Mr. Jeff Berry 309/793-3833

MidAmerican Energy Co. (Gas)
Attn: Steve Hampton 309/793-3707

Paetec (Telephone)
Attn: Mr. Paul Baumann 630/925-4751

Mediacom (CATV)
Attn: Mr. Dennis Jarding 309/743-4750

MCI World Com (Telephone)
Attn: Mr. Bailey Ken 972/729-6016

Village of Carbon Cliff (Water & Sewer)
Attn: Ms. Dawn Tubbs 309/792-8297

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per metric ton (ton) for HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days.

GENERAL NOTES

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

It shall be the Contractor's responsibility to contact the municipality to determine approved methods of utility structure adjustment. Utility structures may include, but are not limited to, manholes, water valves, handholes, etc. All materials and work necessary to complete adjustments per municipality requirements shall be considered included in the cost of the associated adjustment pay item.

FILE NAME = 64E31 GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES				ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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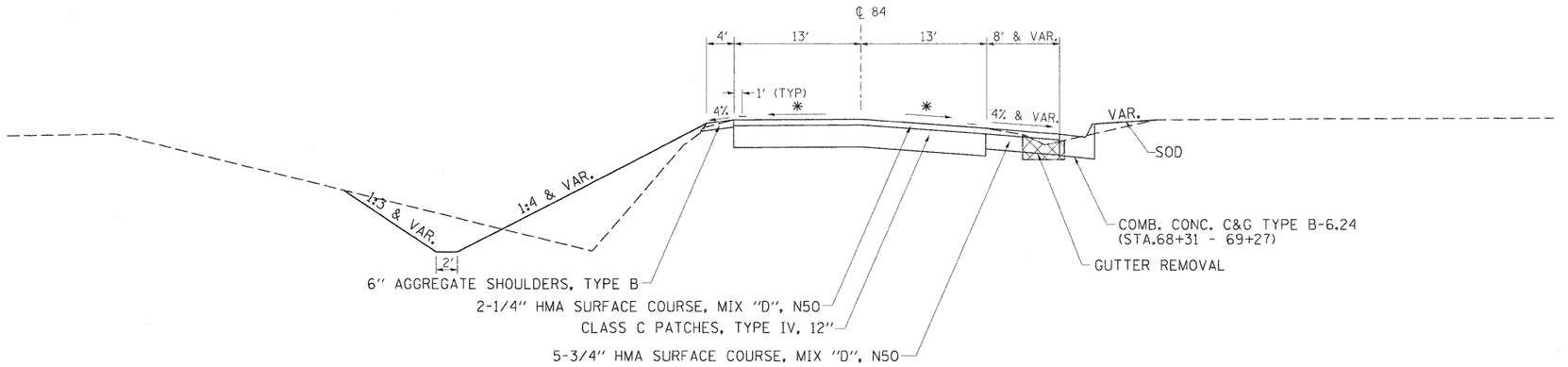
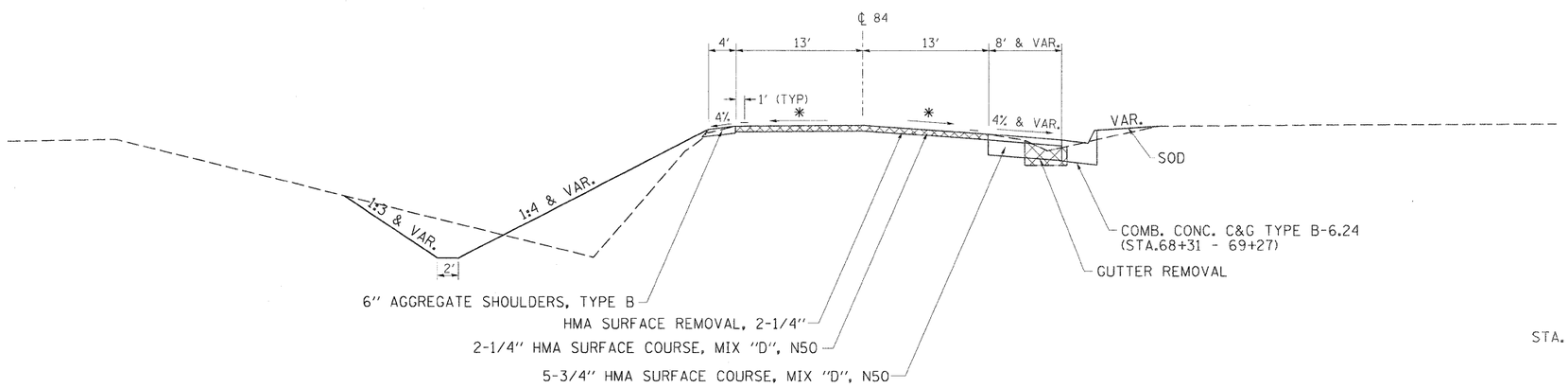
TYPICAL SECTIONS

STA. 68+74 - 69+27

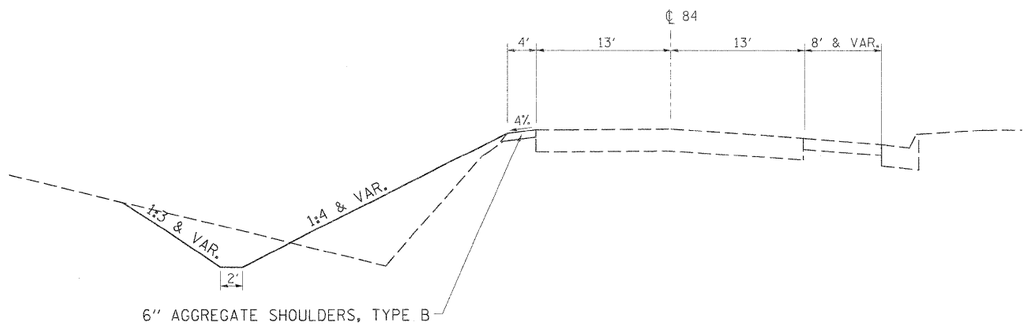


STA. 68+31 - 68+74

* MATCH EXISTING CROSS SLOPE



STA. 69+27 - 70+00



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	6
		CONTRACT NO. 64E31		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 DIAMETER UNITS)

UNIT		LOCATION		REMARK'S
8	STA.	68 + 79	45.1' RT	
8	STA.	68 + 80	49.1' RT	
8	STA.	68 + 86	67' LT	
8	STA.	69 + 5	44.1' RT	
6	STA.	69 + 22	46' LT	
10	STA.	69 + 36	61.5' LT	
48	TOTAL			

20100210 TREE REMOVAL (OVER 15 DIAMETER UNITS)

UNIT		LOCATION		REMARK'S
16	STA.	68 + 71	76.6' RT	
18	STA.	69 + 5	57.5' RT	
20	STA.	69 + 12	48.7' RT	
54	TOTAL			

20200100 EARTH EXCAVATION

CU YD		LOCATION			REMARK'S
110	LT & RT STA.	68 + 31	TO	70 + 0	
110	TOTAL				

20200200 ROCK EXCAVATION

CU YD		LOCATION	REMARK'S
20	LT & RT STA.	69 + 0	Possible excavation under proposed Box Culvert
20	TOTAL		

25100630 EROSION CONTROL BLANKET

SQ YD		LOCATION			REMARK'S
438.0	LT. STA.	68 + 75	TO	70 + 0	
438.0	TOTAL				

25200110 SODDING, SALT TOLERANT

SQ YD		LOCATION			REMARK'S
278.0	RT. STA.	67 + 77	TO	69 + 27	
278.0	TOTAL				

25200200 SUPPLEMENTAL WATERING

UNIT		LOCATION			REMARK'S
13.0	LT. STA.	67 + 77	TO	69 + 27	
13.0	TOTAL				

28000305 TEMPORARY DITCH CHECKS

EQQT		LOCATION	REMARK'S
20	LT. STA	69 + 50	
20	TOTAL		

28000400 PERIMETER EROSION BARRIER

EQQT		LOCATION			REMARK'S
145	RT STA.	69 + 58	TO	69 + 28	
26	LT STA.	68 + 77	TO	69 + 3	
171	TOTAL				

28000500 INLET AND PIPE PROTECTION

EACH		LOCATION	REMARK'S
1	LT. STA.	69 + 0	
1	TOTAL		

28100107 STONE RIPRAP, CLASS A4

SQ YD		LOCATION	REMARK'S
68.0	LT. STA.	69 + 0	
79.0	RT. STA.	69 + 0	
147.0	TOTAL		

28200200 FILTER FABRIC

SQ YD		LOCATION	REMARK'S
470.0	LT & RT STA	69 + 0	
470.0	TOTAL		

40603335 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50

TON		LOCATION			REMARK'S
71.0	LT & RT STA	68 + 31	TO	69 + 27	
71.0	TOTAL				

42300300 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"

SQ YD		LOCATION	REMARK'S
56.0	RT STA.	68 + 50	
56.0	TOTAL		

44000158 HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"

SQ YD		LOCATION			REMARK'S
214.0	LT & RT STA	68 + 31	TO	68 + 74	Includes shoulder and 2nd Ave.
214.0	TOTAL				

44000400 GUTTER REMOVAL

EQQT		LOCATION			REMARK'S
29	RT STA.	68 + 31	TO	68 + 60	
20	RT STA.	69 + 6	TO	69 + 26	
49	TOTAL				

44201383 CLASS C PATCHES, TYPE IV, 12 INCH

SQ YD		LOCATION			REMARK'S
155.0	CL STA.	68 + 74	TO	69 + 27	
155.0	TOTAL				

48101200 AGGREGATE SHOULDERS, TYPE B

TON		LOCATION			REMARK'S
32.0	LT STA.	68 + 31	TO	70 + 0	
32.0	TOTAL				

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

EACH		LOCATION	REMARK'S
1	STA.	69 + 0	12x6 Concrete Box Culvert
1	TOTAL		

51500100 NAME PLATES

EACH		LOCATION	REMARK'S
1		69 + 0	SN 081-1129
1	TOTAL		

54010805 PRECAST CONCRETE BOX CULVERTS 8' X 5'

EQQT		LOCATION	REMARK'S
146		69 + 0	
146	TOTAL		

60600095 CLASS SI CONCRETE OULET

CU YD		LOCATION	REMARK'S
2	RT. STA.	68 + 95	OUTLET OVER CULVERT
2	TOTAL		

60605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

EQQT		LOCATION			REMARK'S
88	RT. STA.	68 + 31	TO	69 + 27	
88	TOTAL				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	7
		CONTRACT NO. 64E31		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

63500105 DELINEATORS

EACH		LOCATION	REMARK'S
2	LT/RT	69 + 0	
2	TOTAL		

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION	REMARK'S
2	TO BE DETERMINED BY FIELD ENGINEER	
2	TOTAL	

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT		LOCATION			REMARK'S
676	LT & RT STA	68 + 31	TO	70 + 0	WHITE EOP (2) APPLICATIONS
100	CL STA.	68 + 31	TO	70 + 0	YELLOW SKIP DASH (2) APPLICATIONS
776	TOTAL				

X2070302 POROUS GRANULAR EMBANKMENT, SPECIAL

TON		LOCATION	REMARK'S
60.0	LT & RT. STA.	69 + 0	Used as sub-base for PreCast Box Culvert
60.0	TOTAL		

Z0025500 FURNISHING AND INSTALLING PROPERTY MARKERS

EACH		LOCATION		REMARK'S
1	STA.	68 + 65	30' RT	
1	STA.	68 + 74.64	86.44' RT	
1	STA.	68 + 75	50' RT	
1	STA.	68 + 65	85' RT	
1	STA.	68 + 95.37	89.37' RT	
1	STA.	69 + 0.00	90' RT	
1	STA.	69 + 26.58	80' LT	
1	STA.	69 + 38	25' RT	
1	STA.	70 + 15	55' LT	
1	STA.	70 + 15	30' LT	
10	TOTAL			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	8
		CONTRACT NO. 64E31		
	ILLINOIS FED. AID PROJECT			

HORIZONTAL & VERTICAL CONTROL

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1757100.3338	2235423.7528	584.7842	IL84	63+20.6395	19.7477' LT	TOPO SURVEY POINT, PIN
2	1757414.8328	2235343.7673	588.2928	IL84	66+44.9651	30.7113' LT	TOPO SURVEY POINT, PIN
3	1757619.9889	2235302.1337	590.8488	IL84	68+53.2169	28.9506' LT	TOPO SURVEY POINT, PIN
4	1757846.3683	2235283.5711	591.7469	IL84	70+77.5095	20.06' LT	TOPO SURVEY POINT, TOPO SURVEY POINT
5	1758115.2628	2235272.2724	591.5100	IL84	73+45.2263	27.2235' LT	TOPO SURVEY POINT, PIN
90339	1761721.1510	2234327.5810	587.4370	IL84	111+23.1289	29.6174' RT	PHOTO CONTROL H. & V., PIN

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1757747.6183	2235208.4121	595.8867	IL84	69+88.4150	103.4917' LT	TOPO SURVEY POINT, NAIL
101	1757807.7877	2235107.1710	598.5283	IL84	70+52.7638	198.7338' LT	TOPO SURVEY POINT, NAIL
102	1757671.6566	2235378.7072	582.5802	IL84	68+91.5936	55.1957' RT	TOPO SURVEY POINT, TOPO SURVEY POINT
103	1757667.6993	2235305.4048	583.2978	IL84	68+99.1821	17.8278' LT	TOPO SURVEY POINT, TOPO SURVEY POINT
104	1757664.4496	2235152.5611	585.2335	IL84	69+17.8901	169.4462' LT	TOPO SURVEY POINT, PIN
105	1757676.8707	2235607.2182	580.4336	IL84	68+55.5249	281.3839' RT	TOPO SURVEY POINT, PIN
106	1757677.4537	2235044.9807	587.8689	IL84	69+42.8297	274.1974' LT	TOPO SURVEY POINT, NAIL
107	1757619.6469	2234935.5566	589.5559	IL84	69+07.0747	390.6835' LT	TOPO SURVEY POINT, NAIL
108	1757642.6071	2234836.2687	591.0949	IL84	69+37.2200	485.6927' LT	TOPO SURVEY POINT, NAIL
109	1757565.3730	2234762.2513	591.4459	IL84	68+85.6302	570.3197' LT	TOPO SURVEY POINT, NAIL
110	1757669.8755	2235242.6423	584.4287	IL84	69+10.5357	79.541' LT	TOPO SURVEY POINT, NAIL

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1757100.0953	2235475.7606	584.9173	IL84	63+09.2978	31.0089' RT	HEADWALL, CHISELED SQUARE
402	1757663.4792	2236358.4083	583.1968	IL84	66+71.1491	1013.6238' RT	HEADWALL, HEADWALL
403	1757668.6535	2235302.3309	592.1353	IL84	69+00.5834	20.7186' LT	HEADWALL, CHISELED SQUARE
405	1758350.2696	2235239.0675	594.7684	IL84	75+80.2538	60.2816' LT	SIGN FOUNDATION, SIGN FOUNDATION

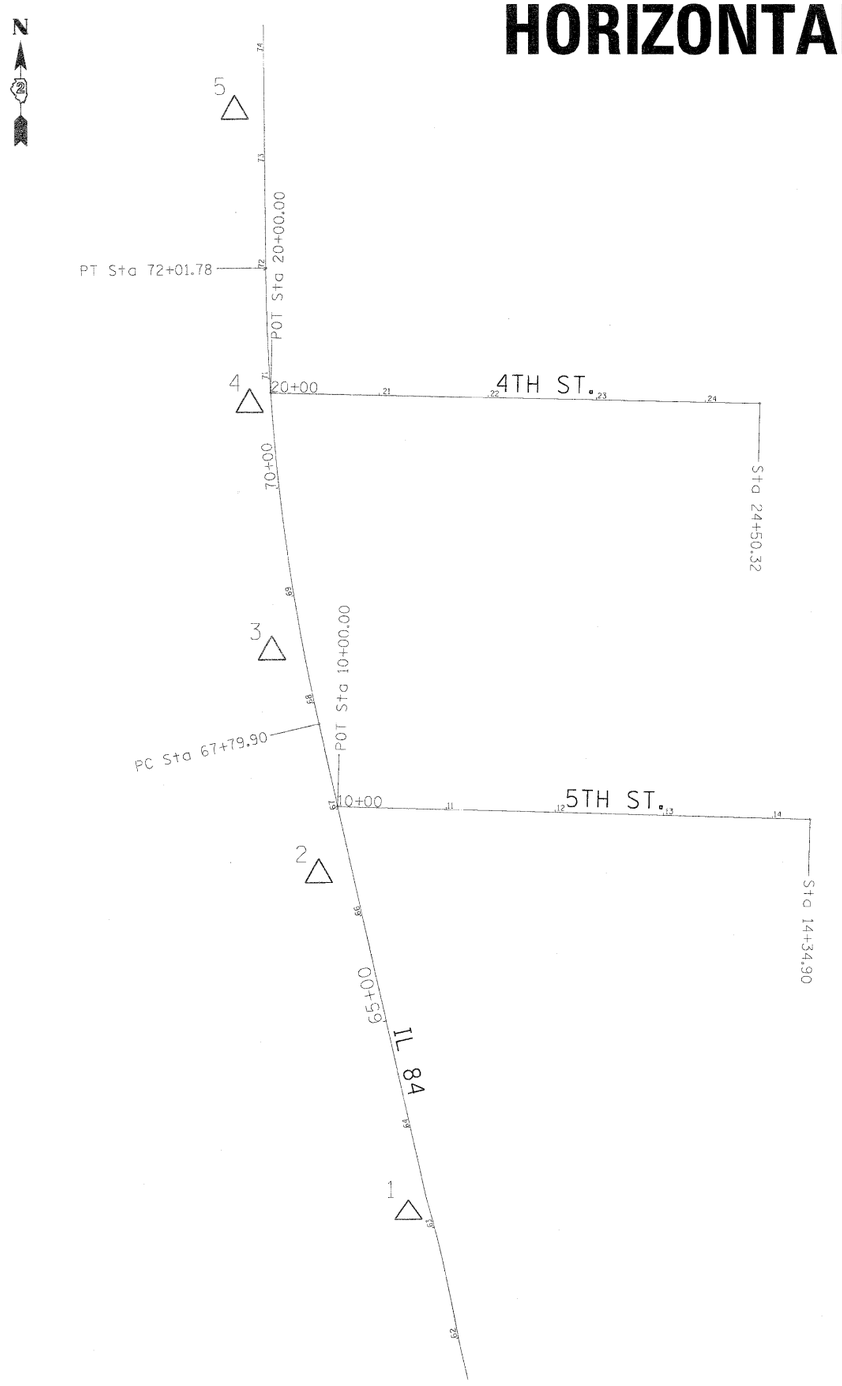
APPARENT PROPERTY CORNERS

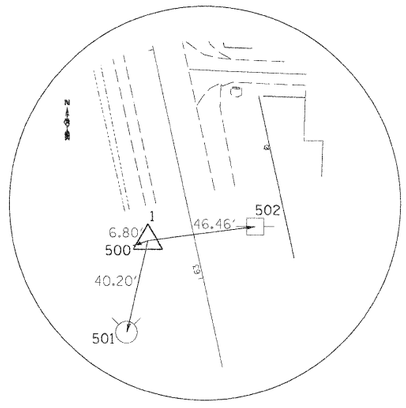
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	1758186.3901	2235327.1263	591.3641	IL84	74+16.3193	27.6748' RT	BLOCK CORNER, PIN
701	1757880.7455	2235328.9836	590.7567	IL84	71+09.3612	27.1989' RT	BLOCK CORNER, PIN

REFERENCE TIES

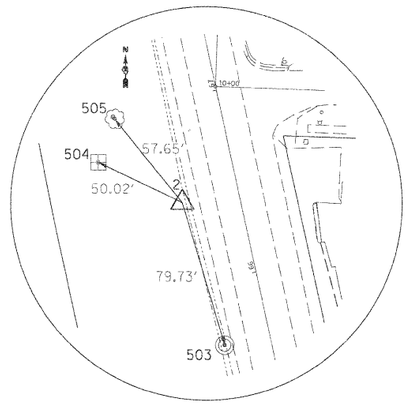
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	IL84	63+20.0043	26.5189' LT	PIPE CULVERT, CMP
501	IL84	62+84.2970	36.9308' LT	FIRE HYDRANT
502	IL84	63+16.7392	26.5493' RT	POWER POLE WITH LIGHT, POWER POLE WITH LIGHT
503	IL84	65+65.4587	24.7866' LT	MANHOLE LID
504	IL84	66+75.7897	70.0998' LT	TELEPHONE SPLICE BOX
505	IL84	66+96.4586	56.6327' LT	TREE DECIDUOUS
506	IL84	68+90.4396	30.6455' LT	TOP OF WINGWALL, TOP OF WINGWALL
507	IL84	68+48.6878	47.3747' LT	FIRE HYDRANT
508	IL84	68+43.6183	28.6999' LT	MANHOLE LID
509	IL84	70+62.2527	45.3065' LT	POWER POLE, SHINER
510	IL84	71+27.4682	43.4529' LT	TELEPHONE POLE, SHINER
511	IL84	70+62.6914	24.5837' RT	FIRE HYDRANT
512	IL84	73+43.9835	27.6382' RT	POWER POLE WITH LIGHT, SHINER
513	IL84	73+83.8470	27.1431' RT	SIGN, END
514	IL84	73+75.9003	49.2326' LT	PIPE CULVERT, RCP

HORIZONTAL & VERTICAL CONTROL





HORIZONTAL CONTROL POINT 1



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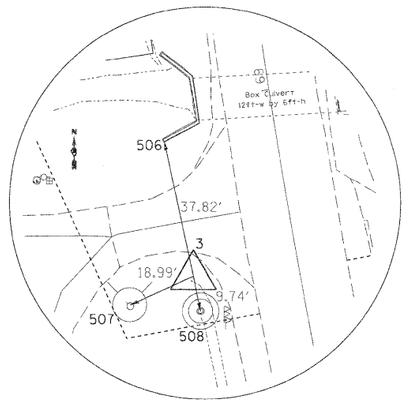
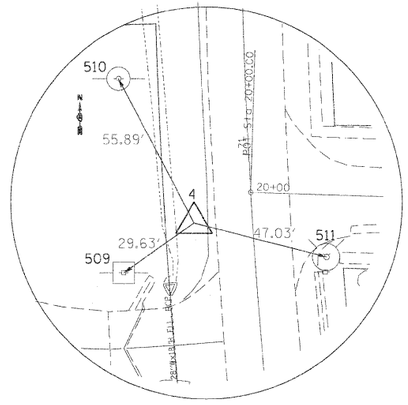
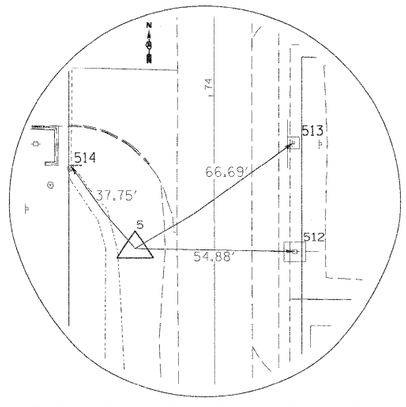


HORIZONTAL CONTROL POINT 3



HORIZONTAL CONTROL POINT 4



HORIZONTAL CONTROL POINT 5

Curve Data

Curve 250
P.I. Station 69+91.6558 N 1,757,760.0823 E 2,235,299.7178
Delta = 12° 17′ 50.7463″ (RT)
Degree = 2° 54′ 53.7421″
Tangent = 211.7523′
Length = 421.8776′
Radius = 1,965.5982′
External = 11.3730′
Long Chord = 421.0683′
Mid. Ord. = 11.3076′
P.C. Station 67+79.9034 N 1,757,553.2168 E 2,235,344.9474
P.T. Station 72+01.7810 N 1,757,971.8345 E 2,235,299.5855
C.C. N 1,757,973.0625 E 2,237,265.1833

Course from PT 250 to PC 260 359° 57′ 51.1422″ Dist 866.1301′

DRAWING NTS

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		DRAWN -	REVISED -
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	PLOT DATE = Wed Oct 06 08:07:47 2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

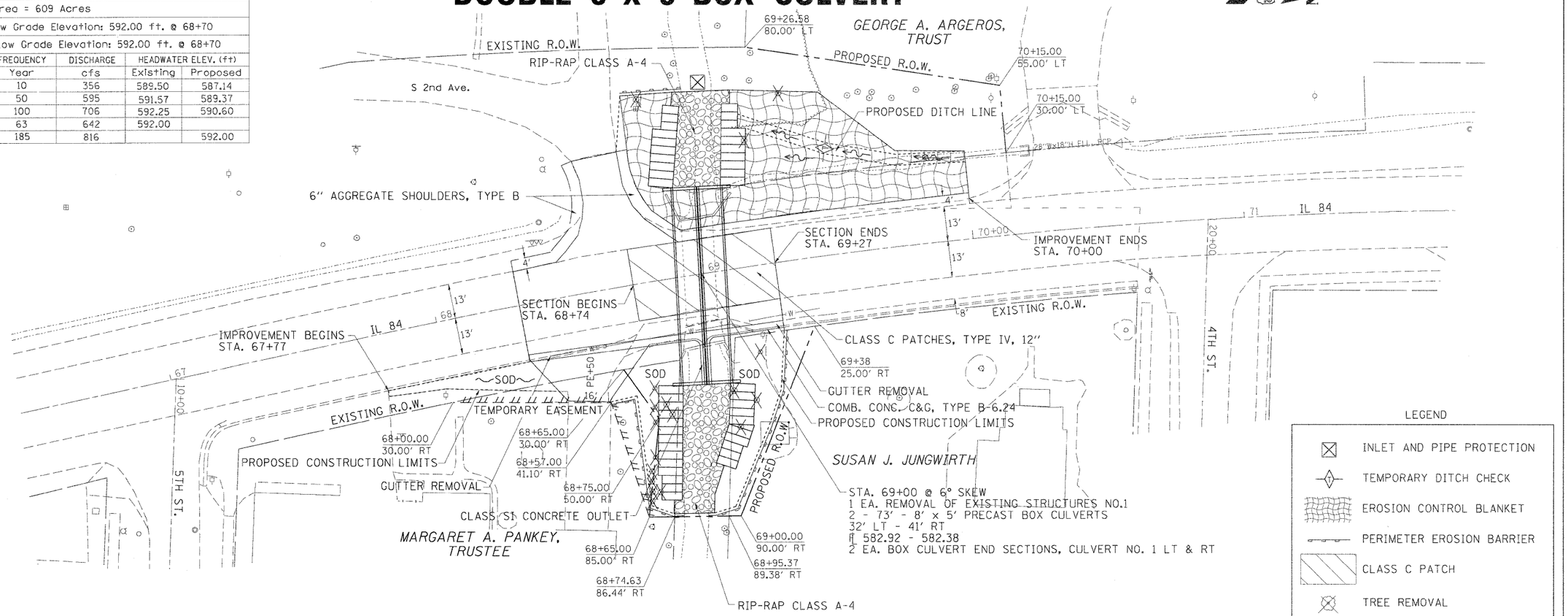
HORIZONTAL & VERTICAL CONTROL

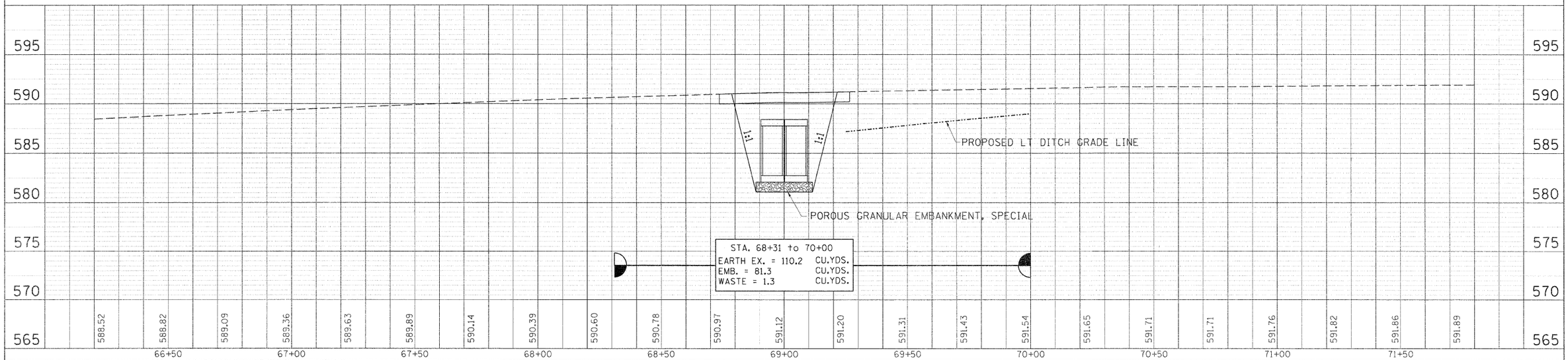
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	IR-T	ROCK ISLAND	25	10
		CONTRACT NO. 64E31		
		ILLINOIS FED. AID PROJECT		

STA. 69+00
DOUBLE 8' x 5' BOX CULVERT

Drainage Area = 609 Acres				
Existing Low Grade Elevation: 592.00 ft. @ 68+70				
Proposed Low Grade Elevation: 592.00 ft. @ 68+70				
FLOOD	FREQUENCY	DISCHARGE	HEADWATER ELEV. (ft)	
	Year	cfs	Existing	Proposed
Ten-Year	10	356	589.50	587.14
Design	50	595	591.57	589.37
Base	100	706	592.25	590.60
OVT (E)	63	642	592.00	
OVT (P)	185	816		592.00





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

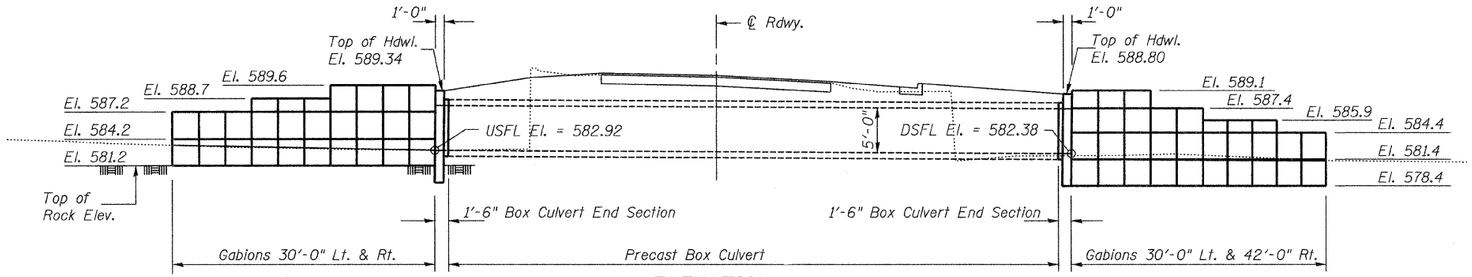
STA. 69+00
DOUBLE 8' x 5' BOX CULVERT

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

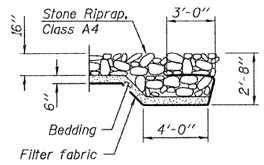
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	11
		CONTRACT NO. 64E31		
	ILLINOIS FED. AID PROJECT			

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, ALL XS WERE CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

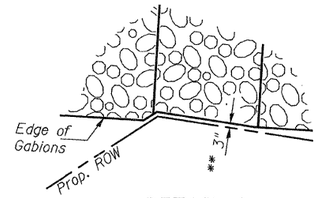
PROFILE — APPROVED, PLOTTED, GRADES CHECKED, ALL XS WERE CHECKED, STRUCTURE NO'S/ING CHK'D, NOTE BOOK, NO., BY, DATE



ELEVATION

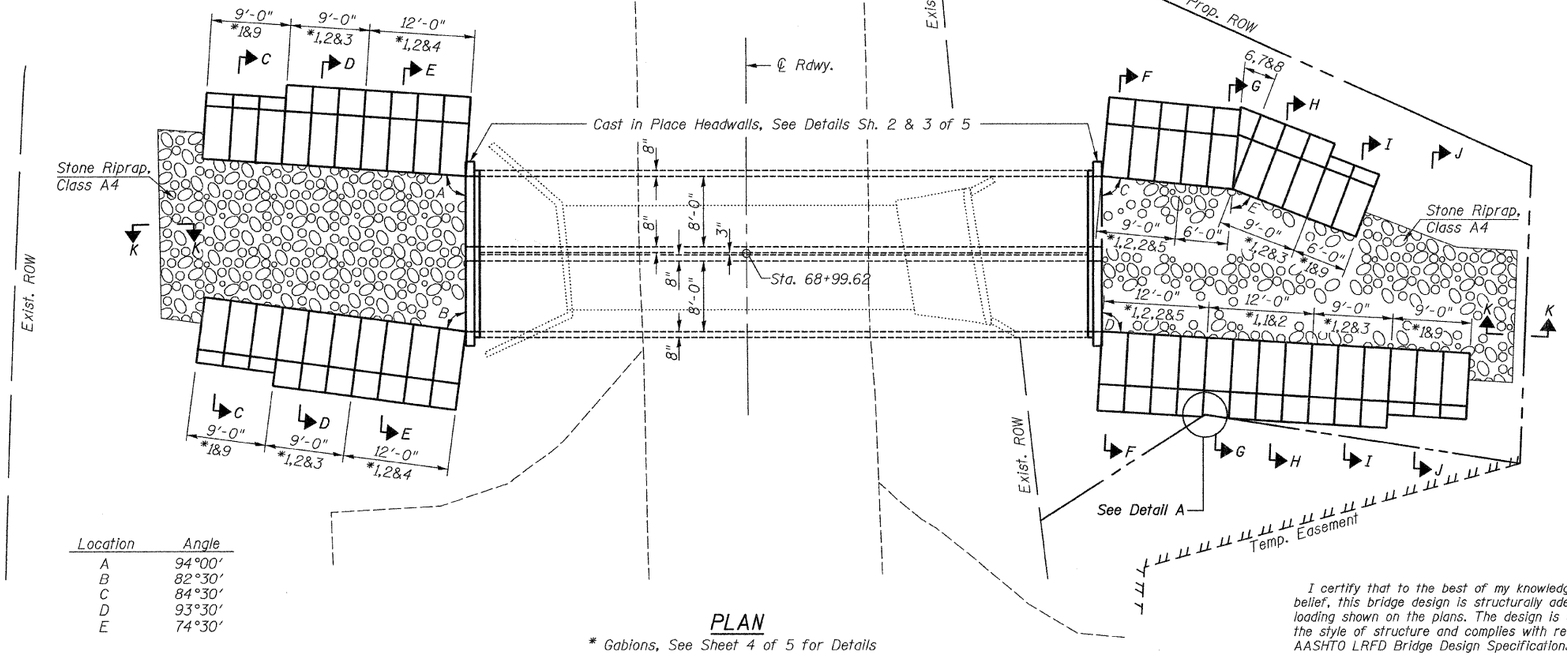


SECTION K-K



DETAIL A

** Modify Gabions to stay within ROW.



Location	Angle
A	94°00'
B	82°30'
C	84°30'
D	93°30'
E	74°30'

PLAN

* Gabions, See Sheet 4 of 5 for Details

GENERAL NOTES

This work shall be done according to the applicable portion of 284, 503 and 508 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Filter fabric shall be placed underneath and on the back face of the gabion walls.

Exposed edges shall be beveled $\frac{3}{4}$"

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	260.0
Rock Excavation	Cu. Yd.	2.0
Stone Riprap, Class A4	Sq. yd.	147.0
Filter Fabric	Sq. yd.	470.0
~~Removal of Existing Structures~~	~~Each~~	~~1~~
Box Culvert End Sections, Culvert No. 1	Each	2
Gabions	Cu. Yd.	288.0

DESIGN STRESSES

FIELD UNITS

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

DESIGN SPECIFICATIONS

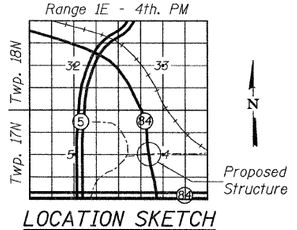
2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

LOADING HL-93

Allow 50#/Sq. Ft. For future wearing surface.

INDEX OF SHEETS

N



LOCATION SKETCH

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

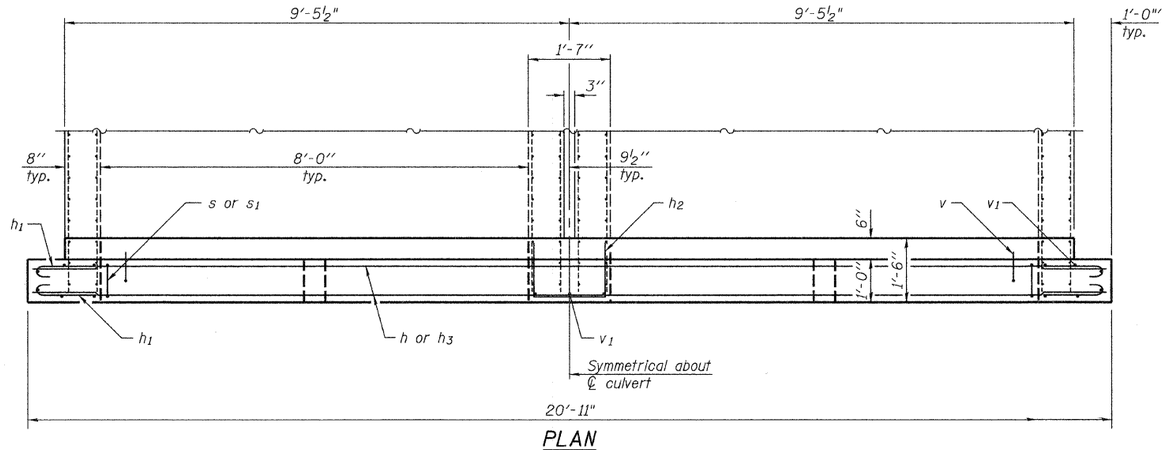
Benjamin A. Nebel 9/27/2010

Illinois Structural No. 6527
Expires 11/30/2010

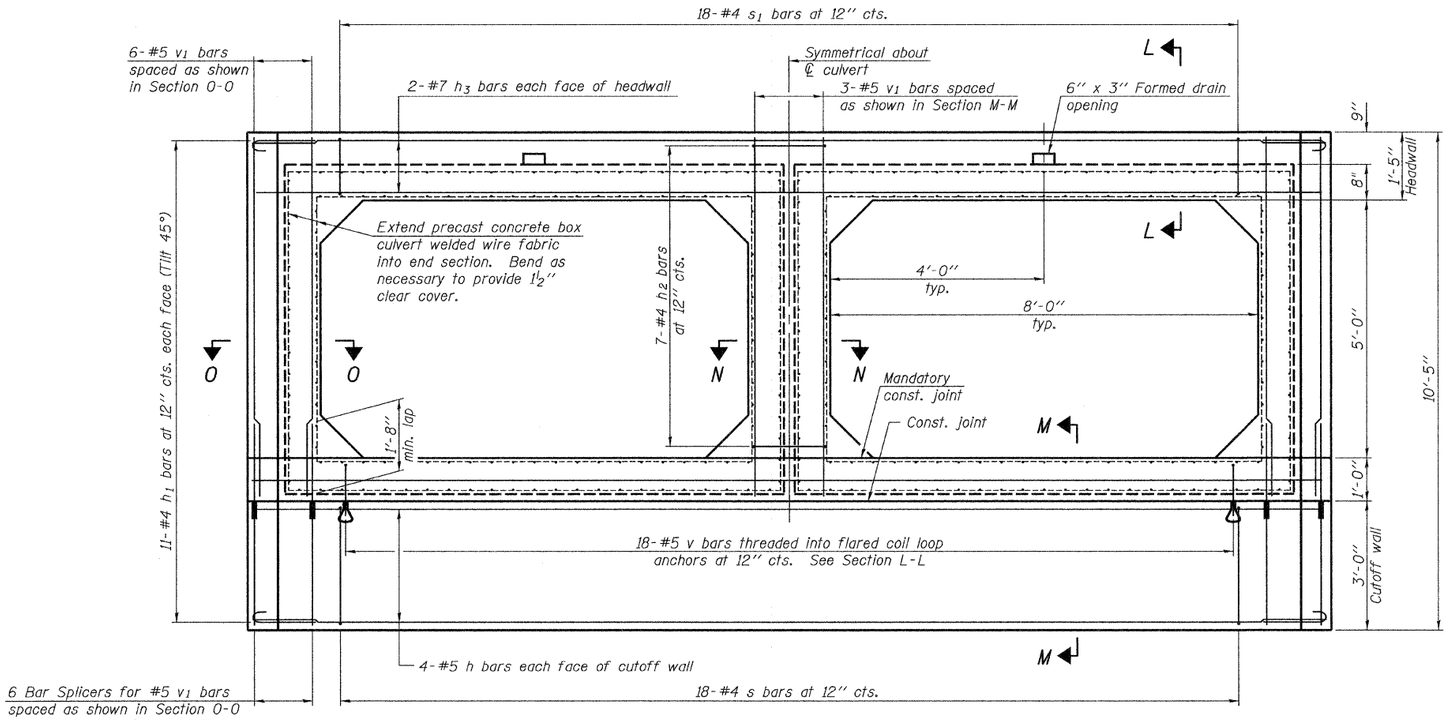
GENERAL PLAN & ELEVATION
IL. RTE. 84 OVER UNNAMED CREEK
F.A.S. RTE. 5857 - SEC. 1R-T
ROCK ISLAND COUNTY
STATION 68+99.62

DESIGNED - BAN	EXAMINED	DATE - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - ---	ENGINEER OF BRIDGE DESIGN		
DRAWN - TAC	PASSED		BOX CULVERT END SECTION & GABION WALL DETAILS
CHECKED - ---	ENGINEER OF BRIDGES AND STRUCTURES		SHEET NO. 1 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	12
		CONTRACT NO. 64E31		
		ILLINOIS FED. AID PROJECT		



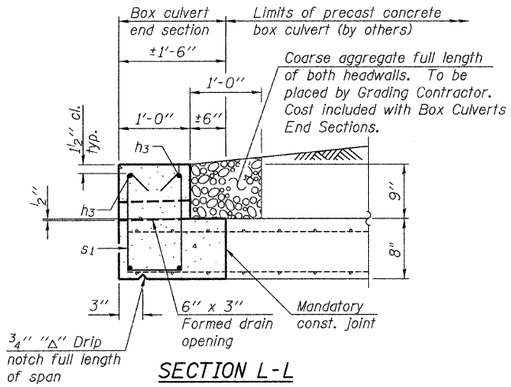
PLAN



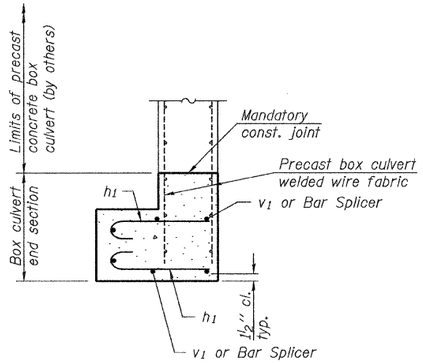
END ELEVATION

BOX CULVERT END SECTION DETAILS
IL. RTE. 84 OVER UNNAMED CREEK
F.A.S. RTE. 5857 - SEC. 1R-T
ROCK ISLAND COUNTY
STATION 68+99.62

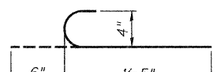
DESIGNED - BAN	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT END SECTION & GABION WALL DETAILS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
CHECKED -	ENGINEER OF BRIDGE DESIGN				5857	1R-T	ROCK ISLAND	25 / 13
DRAWN - TAC	PASSED			SHEET NO. 2 OF 5 SHEETS			CONTRACT NO. 64E31	
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES						ILLINOIS FED. AID PROJECT	



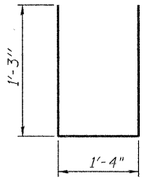
SECTION L-L



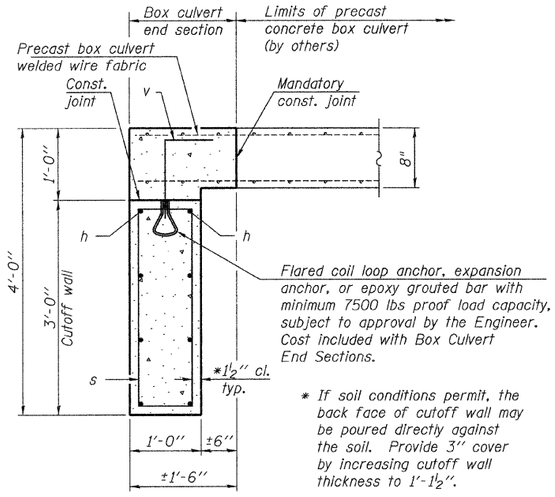
SECTION O-O
(Showing reinforcement)



BARS h1

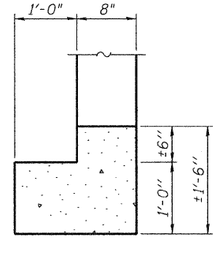


BAR h2



* If soil conditions permit, the back face of cutoff wall may be poured directly against the soil. Provide 3" cover by increasing cutoff wall thickness to 1'-1½".

SECTION M-M



SECTION O-O
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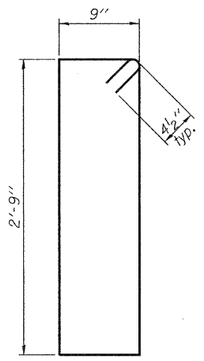
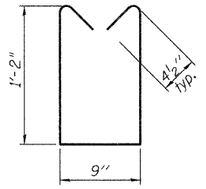


BAR s

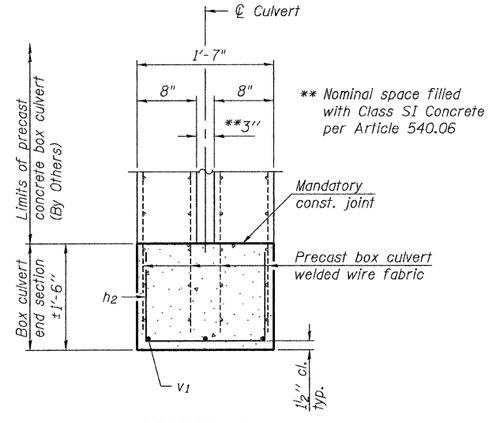


BAR s1

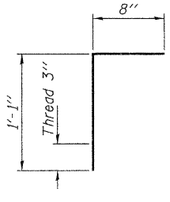
ONE END SECTION BILL OF MATERIAL

(For information only)

Bar	No.	Size	Length	Shape
h	8	#5	19'-8"	
h1	44	#4	1'-11"	
h2	7	#4	3'-10"	
h3	4	#7	19'-8"	
s	18	#4	7'-9"	
s1	18	#4	3'-10"	
v	18	#5	1'-9"	
v1	15	#5	7'-2"	
Concrete Box Culverts		Cu. Yd.	5.9	
Reinforcement Bars		Pound	680	
Bar Splicers		Each	12	



SECTION N-N

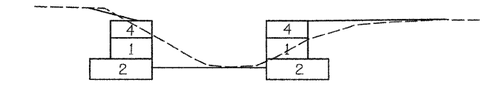


BAR v

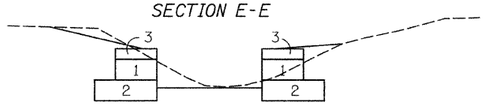
BOX CULVERT END SECTION DETAILS
IL. RTE. 84 OVER UNNAMED CREEK
F.A.S. RTE. 5857 - SEC. 1R-T
ROCK ISLAND COUNTY
STATION 68+99.62

DESIGNED - BAN	EXAMINED	DATE - ---	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - ---	ENGINEER OF BRIDGE DESIGN		
DRAWN - TAC	PASSED		**BOX CULVERT END SECTION & GABION WALL DETAILS**
CHECKED - ---	ENGINEER OF BRIDGES AND STRUCTURES		SHEET NO. 3 OF 5 SHEETS

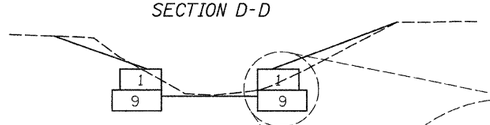
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	14
		CONTRACT NO. 64E31		
		ILLINOIS FED. AID PROJECT		



SECTION E-E



SECTION D-D



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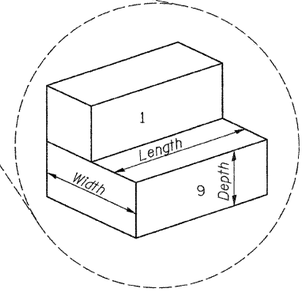

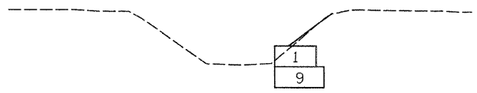

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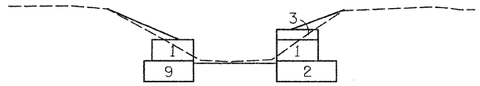
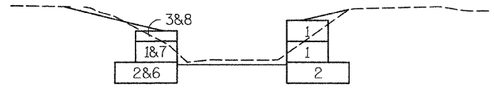
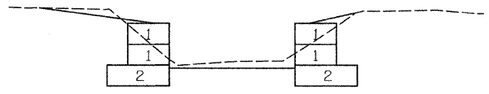


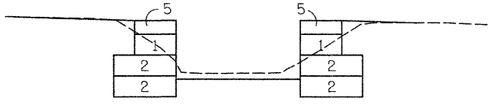
SECTION I-I



SECTION H-H



SECTION G-G



SECTION F-F

GABIONS

Gabion	Length	Width	Depth
1	3'-0"	6'-0"	3'-0"
2	3'-0"	9'-0"	3'-0"
3	3'-0"	6'-0"	1'-6"
4	3'-0"	6'-0"	2'-5"
5	3'-0"	6'-0"	1'-9"
6	varies	9'-0"	3'-0"
7	varies	6'-0"	3'-0"
8	varies	6'-0"	1'-6"
9	3'-0"	7'-6"	3'-0"

GABION WALL DETAILS
IL. RTE. 84 OVER UNNAMED CREEK
F.A.S. RTE. 5857 - SEC. IR-T
ROCK ISLAND COUNTY
STATION 68+99.62

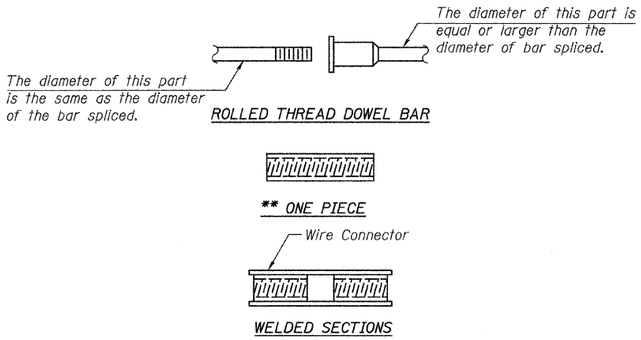
DESIGNED - BAN
CHECKED - ---
DRAWN - TAC
CHECKED - ---

EXAMINED _____ DATE - ---
ENGINEER OF BRIDGE DESIGN
PASSED _____
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

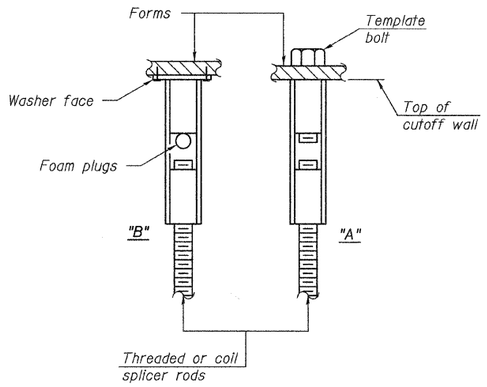
BOX CULVERT END SECTION &
GABION WALL DETAILS
SHEET NO. 4 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	15
		CONTRACT NO. 64E31		
		ILLINOIS	FED. AID PROJECT	



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

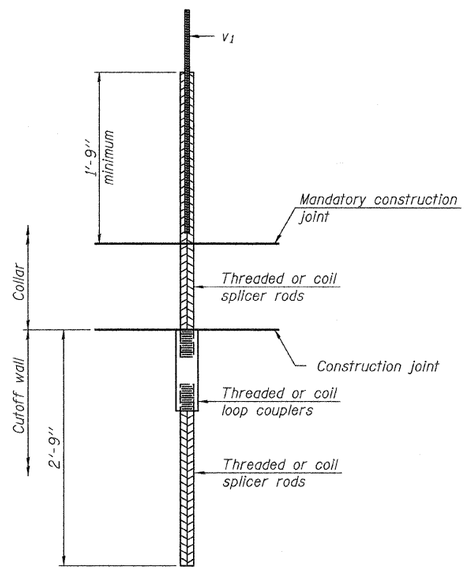
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

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

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

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 24



FOR BOX CULVERT END SECTIONS

BAR SPLICER ASSEMBLY DETAILS
IL. RTE. 84 OVER UNNAMED CREEK
F.A.S. RTE. 5857 - SEC. 1R-T
ROCK ISLAND COUNTY
STATION 68+99.62

DESIGNED - BAN	EXAMINED _____ ENGINEER OF BRIDGE DESIGN	DATE - ---	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BOX CULVERT END SECTION & GABION WALL DETAILS**	F.A.S. RTE. 5857 / SECTION 1R-T / COUNTY ROCK ISLAND / TOTAL SHEETS 25 / SHEET NO. 16
CHECKED - ---					CONTRACT NO. 64E31
DRAWN - TAC	PASSED _____ ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 5 OF 5 SHEETS	ILLINOIS FED. AID PROJECT
CHECKED - ---					

BORING LOGS

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 7/10/08

ROUTE FAU 5857 DESCRIPTION P92-084-08 Culvert on IL 84, .6 m. N. of Colona Road LOGGED BY W. Garza

SECTION 1 R-T LOCATION Hampton Twp. - 4W1/2, SEC. , TWP. 17N, RNG. 1E

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.
Station 94+49

BORING NO. B-1
Station 94+28
Offset 16.00ft Rt CL
Ground Surface Elev. 592.10 ft

Surface Water Elev. ft
Stream Bed Elev. 583.10 ft

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

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF black LOAM			1.0 P	15.0
	590.10			
VERY LOOSE brown/black LOAM		2		
		2		16.0
	588.60	2		
MEDIUM brown/tan LOAM	-5	2		
		3	0.5 P	22.0
	586.10	5		
VERY STIFF gray CLAY LOAM		2		
		3	2.7 B	19.0
	583.10	5		
DENSE gray SHALE	-10	10		
		21		
	581.10	12		
MEDIUM gray SHALE		9		
		9		17.0
	578.60	12		
VERY DENSE gray SAND STONE	-15	100/1"		
	576.10			
End of Boring				
	-20			

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 7/10/08

ROUTE FAU 5857 DESCRIPTION P92-084-08 Culvert on IL 84, .6 m. N. of Colona Road LOGGED BY W. Garza

SECTION 1 R-T LOCATION Hampton Twp. - 4W1/2, SEC. , TWP. 17N, RNG. 1E

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.
Station 94+49

BORING NO. B-2
Station 94+69
Offset 14.00ft Lt CL
Ground Surface Elev. 591.20 ft

Surface Water Elev. ft
Stream Bed Elev. 583.74 ft

Groundwater Elev.:
First Encounter 584.2 ft ▼
Upon Completion 584.2 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Road Rock				
	589.20			
MEDIUM dark gray LOAM		2		
		2	0.5 P	19.0
	587.70	3		
STIFF brown LOAM with ROCKS	-5	1		
		1	1.1 P	16.0
	584.70	1		
SOFT gray CLAY LOAM/SHALE		0		
		0	0.5 B	32.0
	582.70	1		
VERY DENSE gray SAND STONE	-10	6		
		100/4"		
	580.20			
End of Boring				
	-15			
	-20			

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

BBS, from 137 (Rev. 8-99)

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		DRAWN -	REVISED -
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	PLOT DATE = Wed Oct 06 08:09:54 2010	DATE -	REVISED -

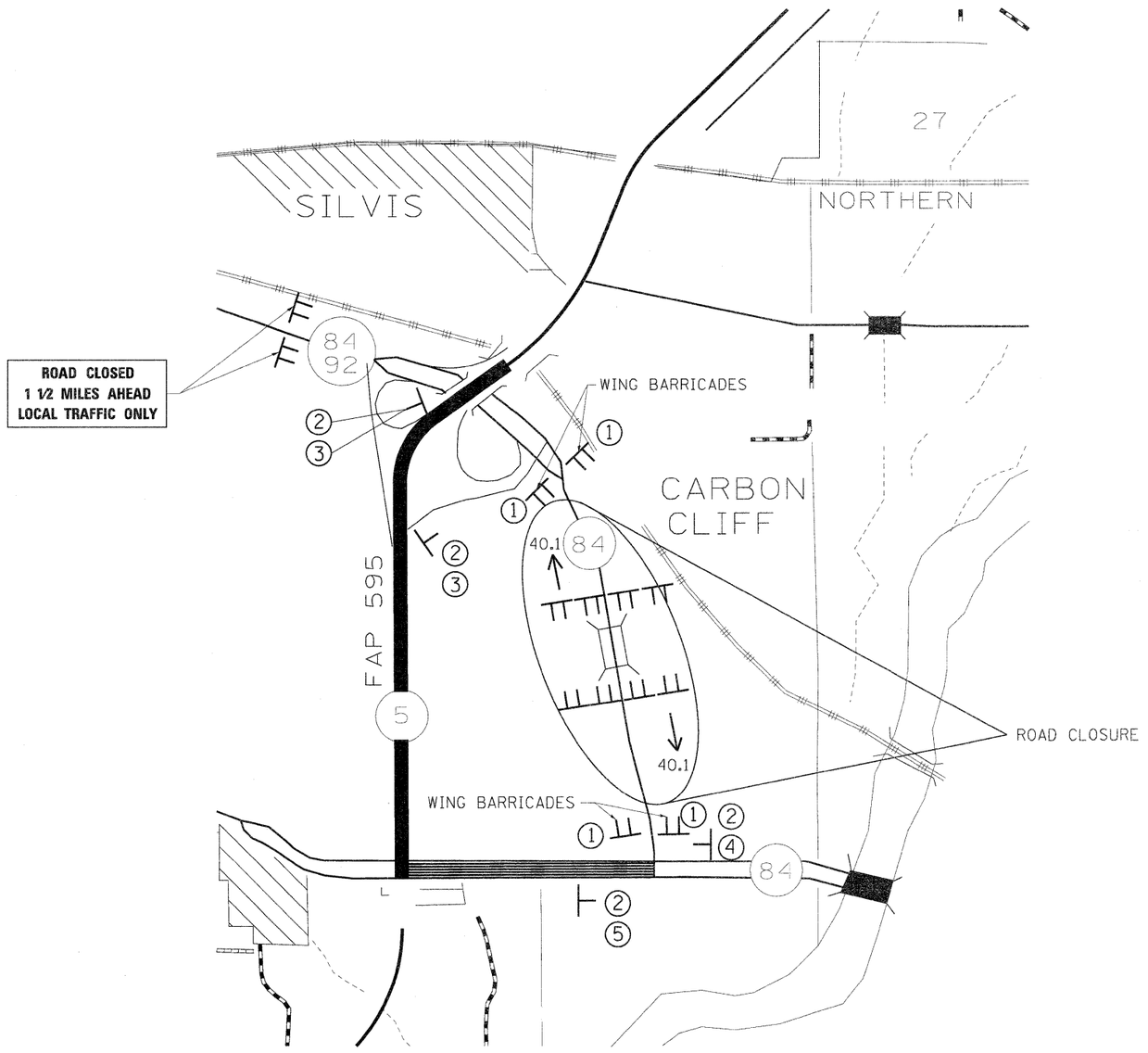
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	17
		CONTRACT NO. 64E31		
	ILLINOIS	FED. AID PROJECT		

DETOUR ROUTE



N

LEGEND

DETOUR ROUTE

TYPE III BARRICADES WITH FLASHERS PLACED AS SHOWN IN STANDARD 701901.

ROAD CLOSED X MILE(S) SIGN WITH SUPPLEMENTAL PLATES AS REQUIRED IN THE SPECIAL PROVISIONS.

THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL FOR ROAD CLOSURE.

1. ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY
2. ROAD CLOSED 1 MILE
3. SOUTH IL 84
4. ➡
5. ⬅

FILE NAME = c:\pw_work\pwidot\cushmanbw\d2133431\D2286426-sht-details.dgn	USER NAME = cushmanbw	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = Wed Oct 06 08:10:50 2010	DATE -	REVISED -

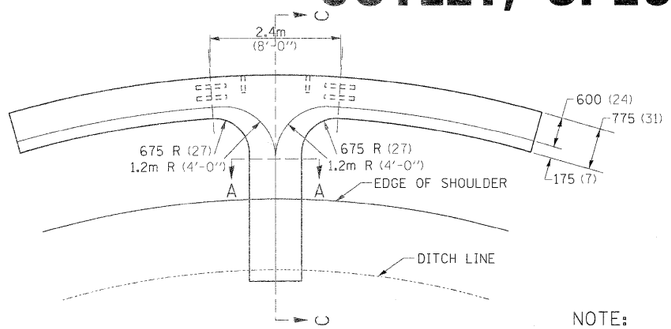
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE

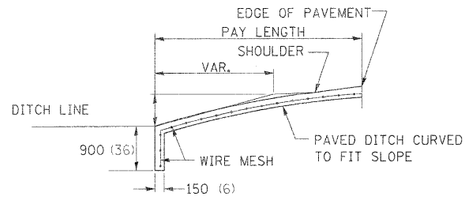
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

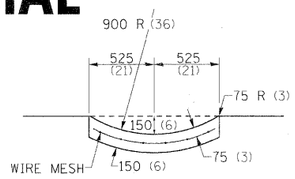
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5787	IR-T	ROCK ISLAND	25	18
		CONTRACT NO. 64E31		
	ILLINOIS FED. AID PROJECT			

CURB AND GUTTER OUTLET, SPECIAL



SECTION C-C





QUANTITY OF CONCRETE
SECTION A-A = $4.72 m^3/m$ (0.07 CU.YD./FT.)
8' SECTION OF CURB & GUTTER UP TO
SECTION A-A = $0.57 m^3$ (0.75 CU.YD.)

SECTION A-A

NOTE:

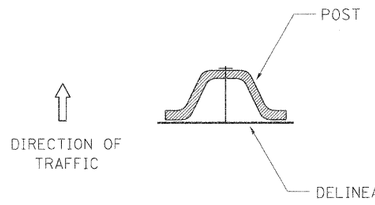
CLASS SI CONCRETE SHALL BE USED THROUGHOUT. CURB AND GUTTER OUTLET SHALL BE TIED TO PAVEMENT SLAB WITH 2 TIE BARS, 750(30) LONG - 750(30) CENTERS. OUTLET SHALL BE TIED TO CURB AND GUTTER AT CONTRACTION JOINTS AS SHOWN. GUTTER OUTLET AND PAVED DITCH SHALL BE REINFORCED WITH WIRE MESH HAVING A WEIGHT OF AT LEAST 2.83 Kg/m^2(58 LBS/$FT.^2$) COST TO BE INCLUDED IN THE UNIT PRICE PER (CUBIC METER) (CU.YD.) FOR CLASS SI CONCRETE (OUTLET).

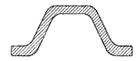
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 9-5-95

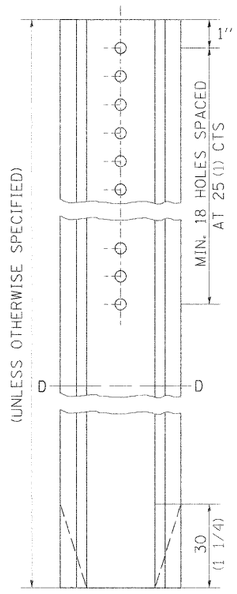
CURB AND GUTTER OUTLET, SPECIAL 18.4

DELINEATOR AND POST ORIENTATION





SECTION D-D



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

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

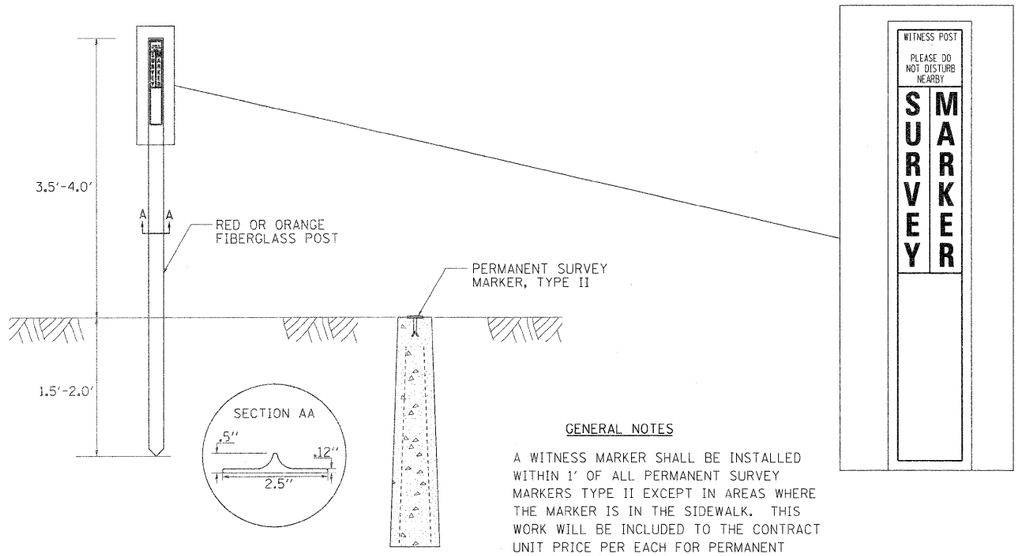
REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION 37.4

REVISED -	**REGION 2 / DISTRICT 2 STANDARD**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		5787	1R-T	ROCK ISLAND	25	19
REVISED -				CONTRACT NO. 64E31		
REVISED -	SCALE: 50.0000 ' / IN. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Wed Oct 26 09:11:11 2010

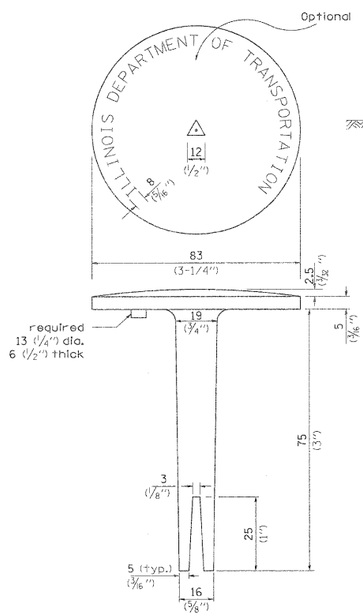
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



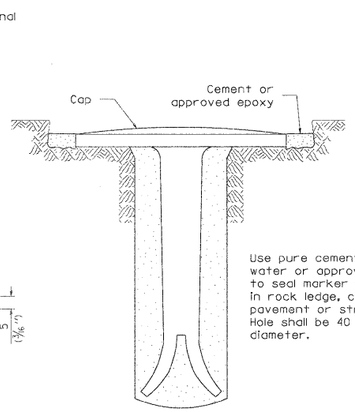
GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

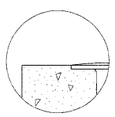
PERMANENT SURVEY MARKERS, TYPE II



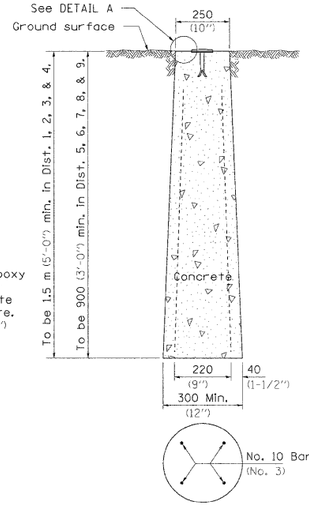
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A



TYPE II

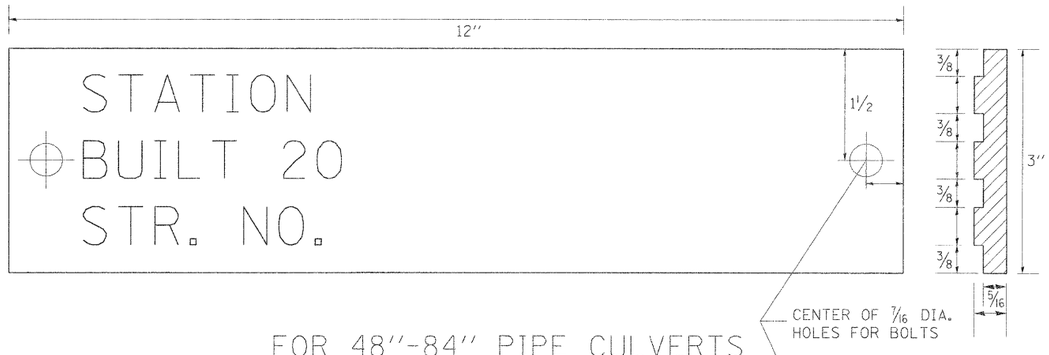
CAST-IN-PLACE MARKER

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

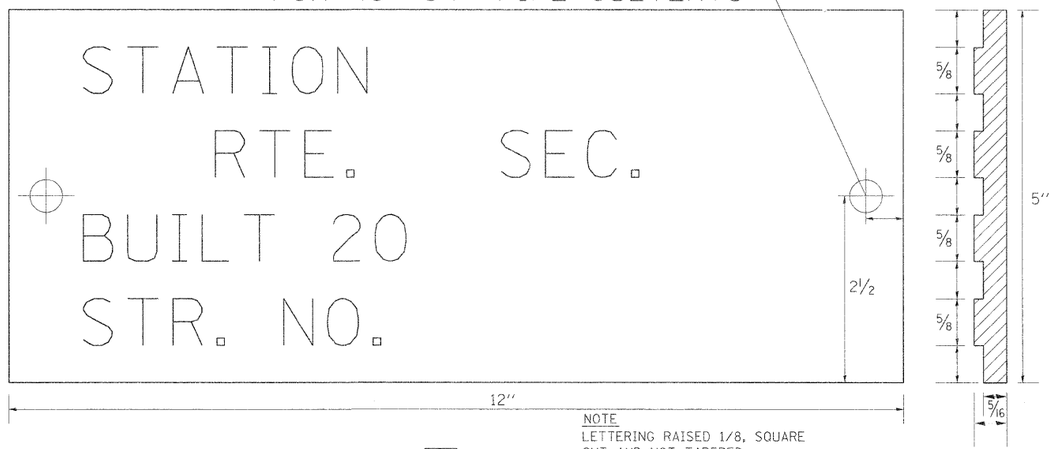
REVISED - 10-21-08

NAME PLATE FOR CULVERTS

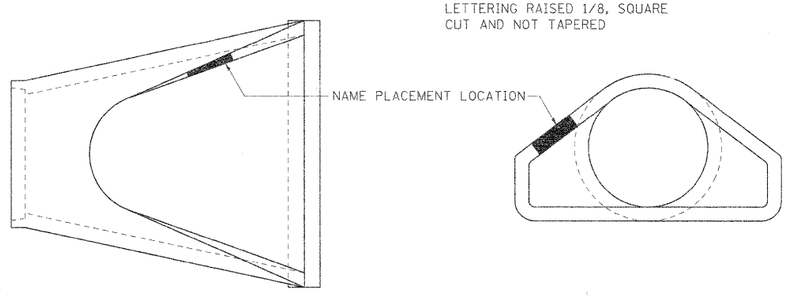
FOR 24"-42" PIPE CULVERTS



FOR 48"-84" PIPE CULVERTS



NOTE
LETTERING RAISED 1/8, SQUARE CUT AND NOT TAPERED



DESIGNERS NOTE

NAME PLATES SHALL BE FURNISHED & INSTALLED ACCORDING TO SECTION 515 OF THE STANDARD SPECIFICATIONS, EXCECT 2 BOLTS SHALL BE USE TO FASTEN THE PLATE TO THE END SECTION.

USE STANDARD 515001 FOR BRIDGES AND MULTI-CELL CULVERTS WITH SPANS OF 20' OR MORE MEASURED ALONG THE CENTERLINE AT THE HIGHWAY.

USE THIS DETAIL FOR ALL OTHER PIPE CULVERTS & BOX CULVERTS WITH STRUCTURE NUMBERS. INCLUDE THE INFORMATION TO FILL OUT THE NAME PLATE FOR EACH CULVERT.

IN BOTH CASES INCLUDE A PAY ITEM FOR NAME PLATES.

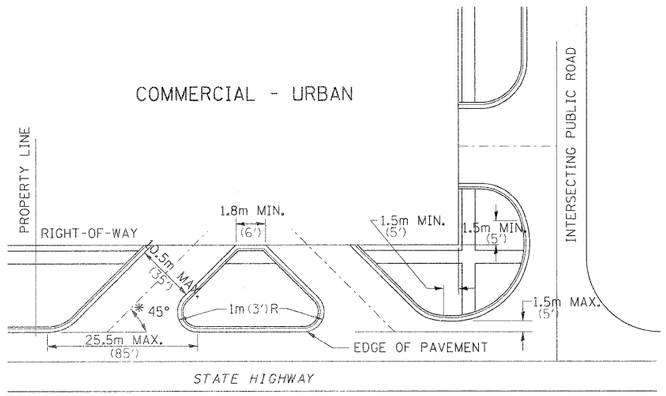
STATION	STRUCTURE NO.
69+00	SN 081-1129

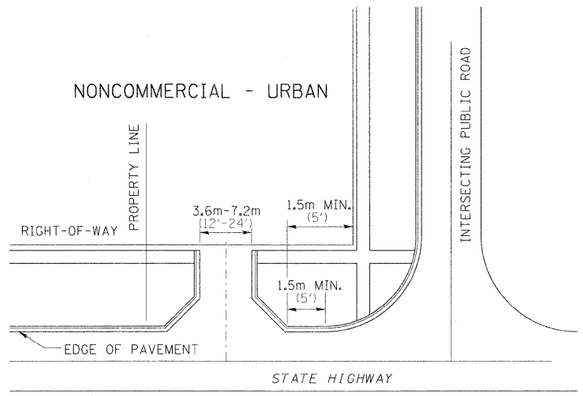
REVISED - 5-27-09	REGION 2 / DISTRICT 2 STANDARD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		5787	1R-T	ROCK ISLAND	25	20
REVISED -				CONTRACT NO. 64E31		
REVISED -	SCALE: 50.0000 ' / IN. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

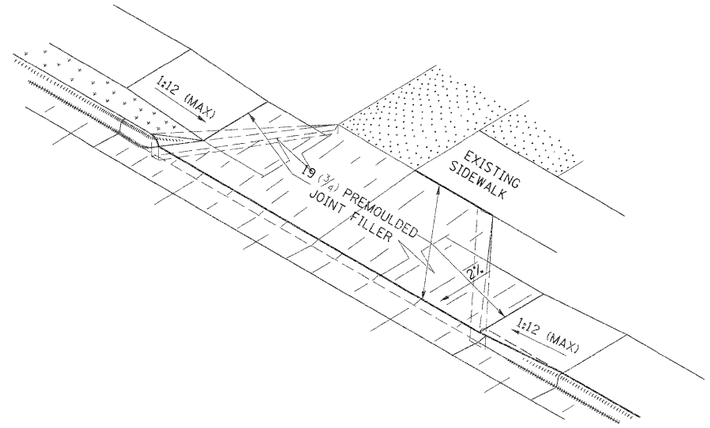
PLOT DATE = Wed Oct 06 08:11:24 2010

ENTRANCE APPROACHES – URBAN AREA

TYPICAL APPLICATION OF ENTRANCES

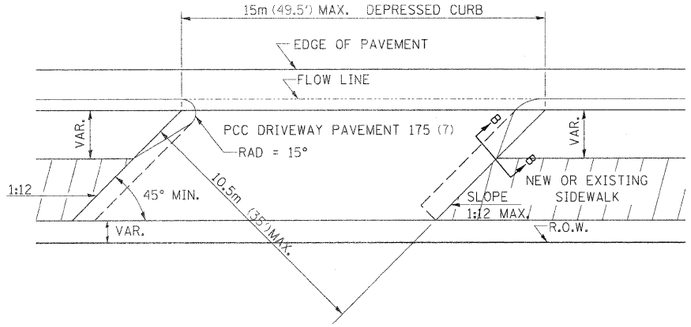




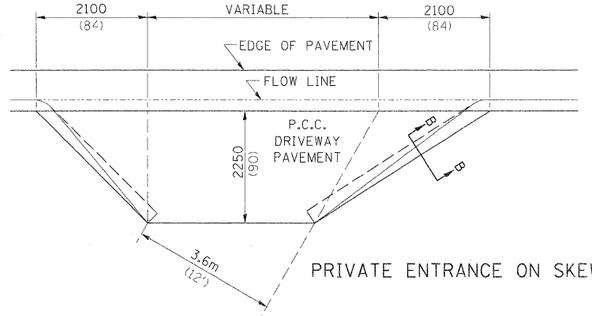


WHEN THE ISLAND BETWEEN DRIVES IS LESS THAN 7.5m (25') LONG OR LESS THAN 10 FEET WIDE, IT SHALL BE DEFINED BY CURBS, MASONRY, OR OTHER DEVICES.

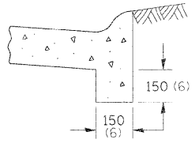
* 45° MIN. ANGLE PERMITTED ONLY FOR ONE-WAY DRIVEWAYS. 60° MIN. ANGLE FOR TWO-WAY DRIVEWAYS.



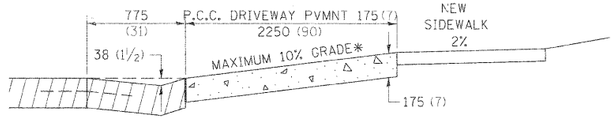
COMMERCIAL ENTRANCE



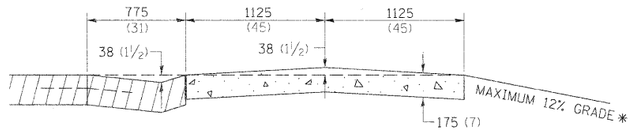
PRIVATE ENTRANCE ON SKEW



SEC B-B

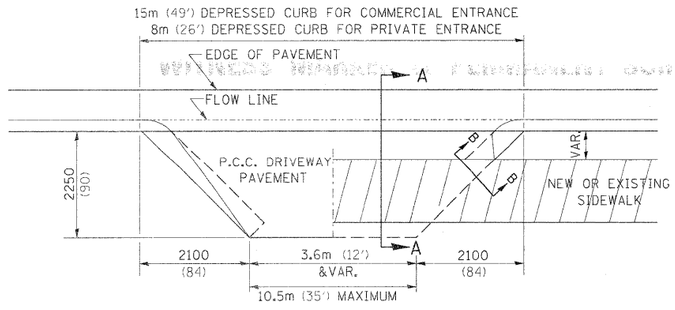


ASCENDING APPROACH

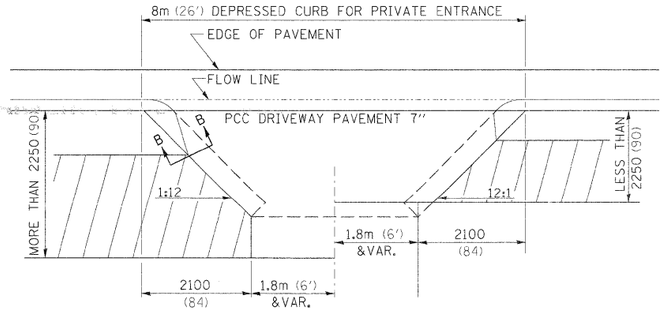


DESCENDING APPROACH

* IN CASES WHERE GRADE EXCEEDS 10%, THE RESIDENT ENGINEER SHALL CHECK WITH DISTRICT DESIGN OFFICE TO DETERMINE NEW APPROACH GRADE, PARTICULAR ATTENTION SHALL BE PAID TO THE NEGATIVE GRADE TO PREVENT DRAINAGE FROM OVER FLOWING INTO THE PRIVATE ENTRANCE.

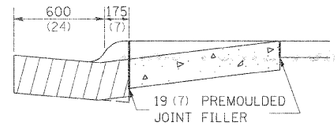


NO SIDEWALK EXISTING SIDEWALK



NEW SIDEWALK

SECTION A-A



THE VARIABLE HEIGHT INTEGRAL CURB AND PREMOULDED JOINT FILLER WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED.

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

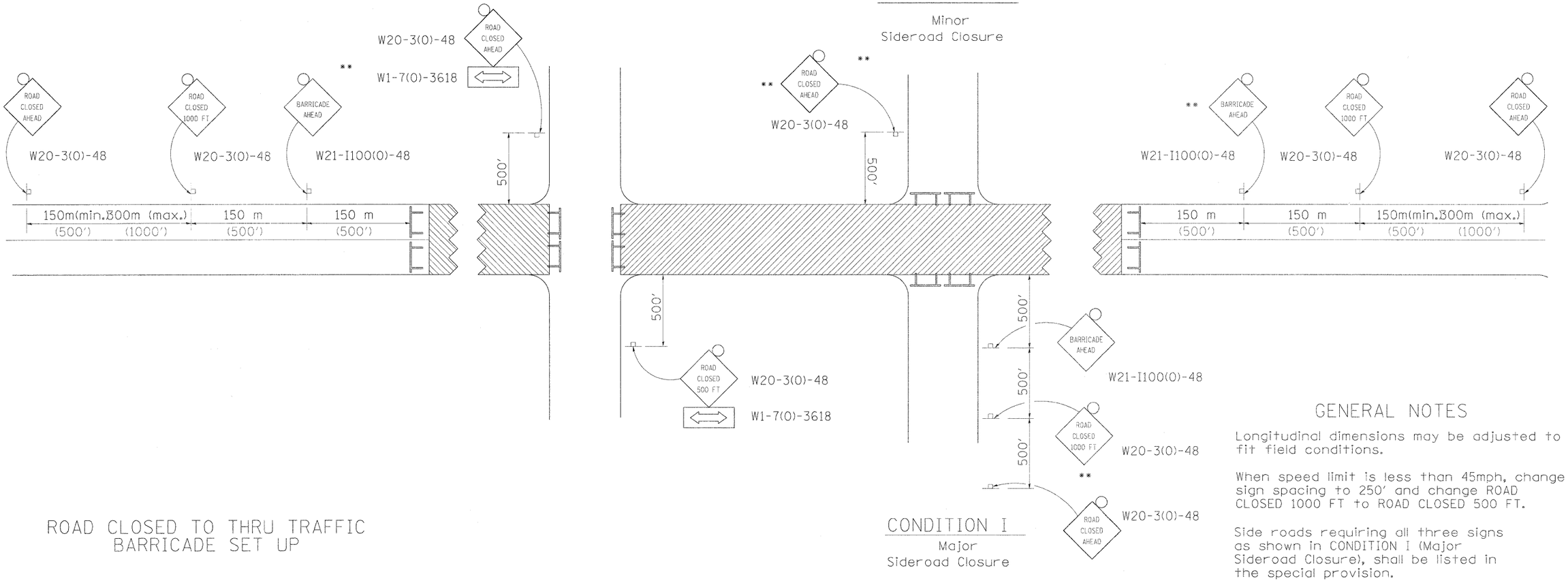
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5787	1R-T	ROCK ISLAND	25	21
		CONTRACT NO. 64E31		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL FOR ROAD CLOSURE

CONDITION II

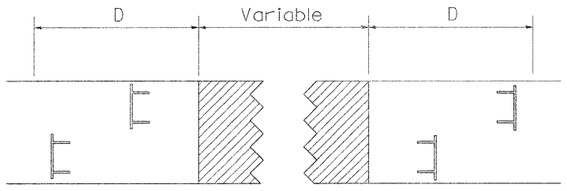
Minor
Sideroad Closure



CONDITION I

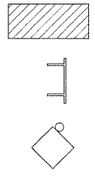
Major
Sideroad Closure

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

SYMBOLS



Work area

Type III Barricade with Flashers

Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

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

TYPICAL APPLICATION FOR ROAD CLOSURE

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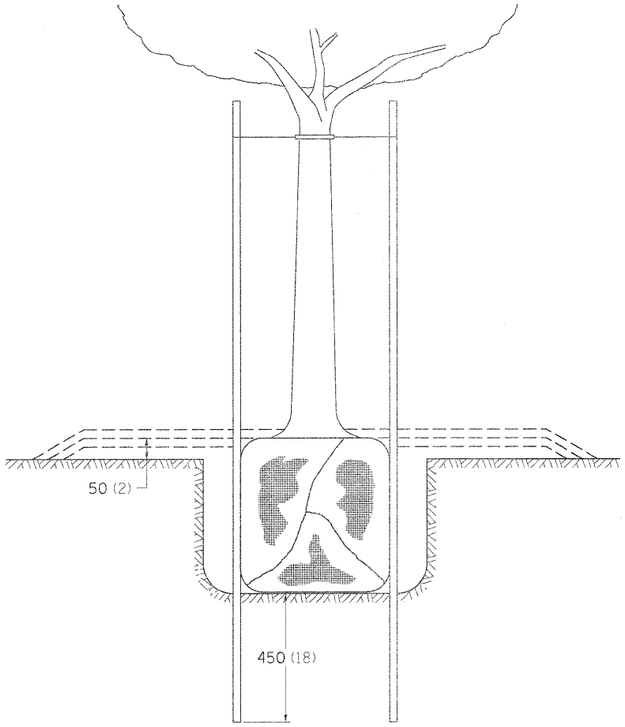
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5787	1R-T	ROCK ISLAND	25	22
		CONTRACT NO. 64E31		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

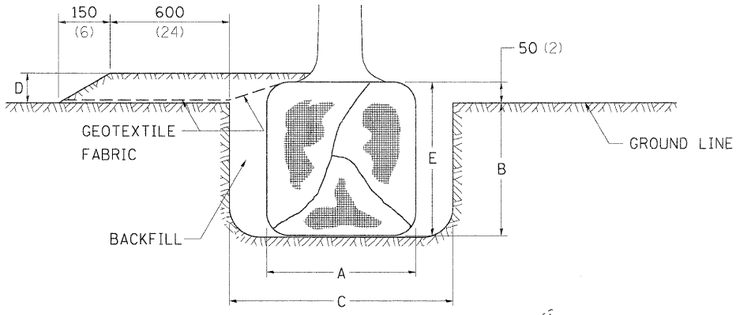
DETAILS OF PLANTING AND BRACING TREES

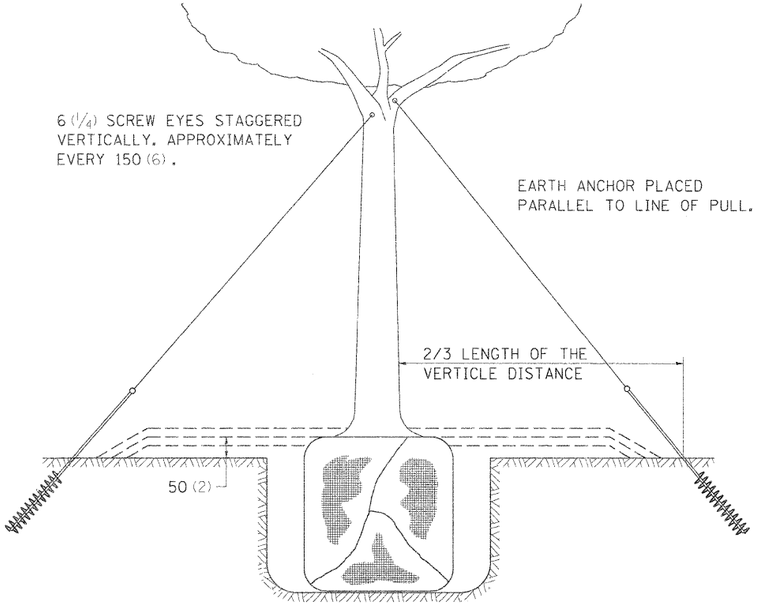


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

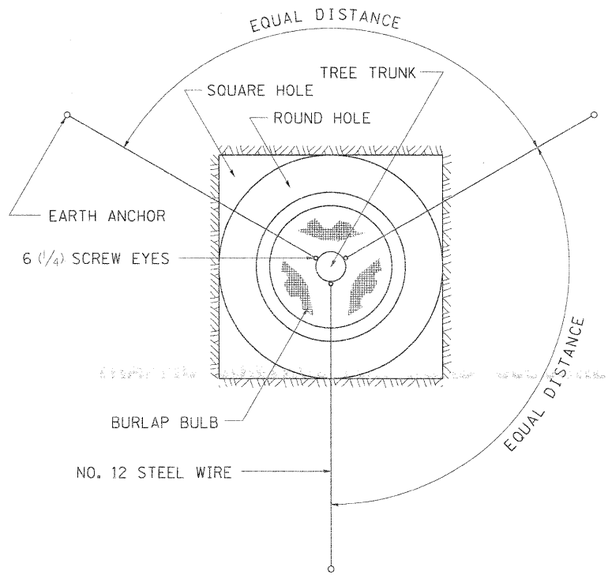
SMALL TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER m^3 (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

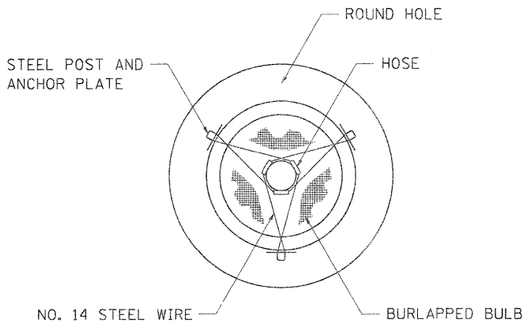
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER m^3 (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)

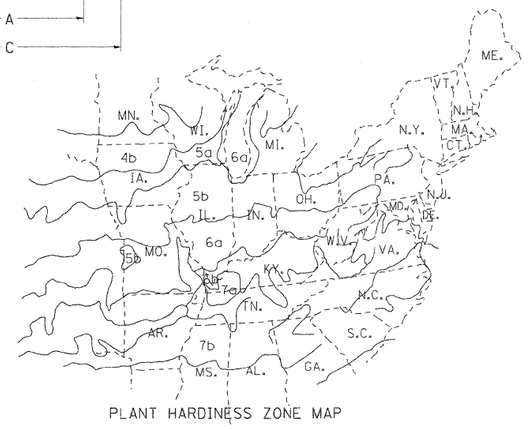




TREES OVER 115 (4 1/2) IN DIAMETER







PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814

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

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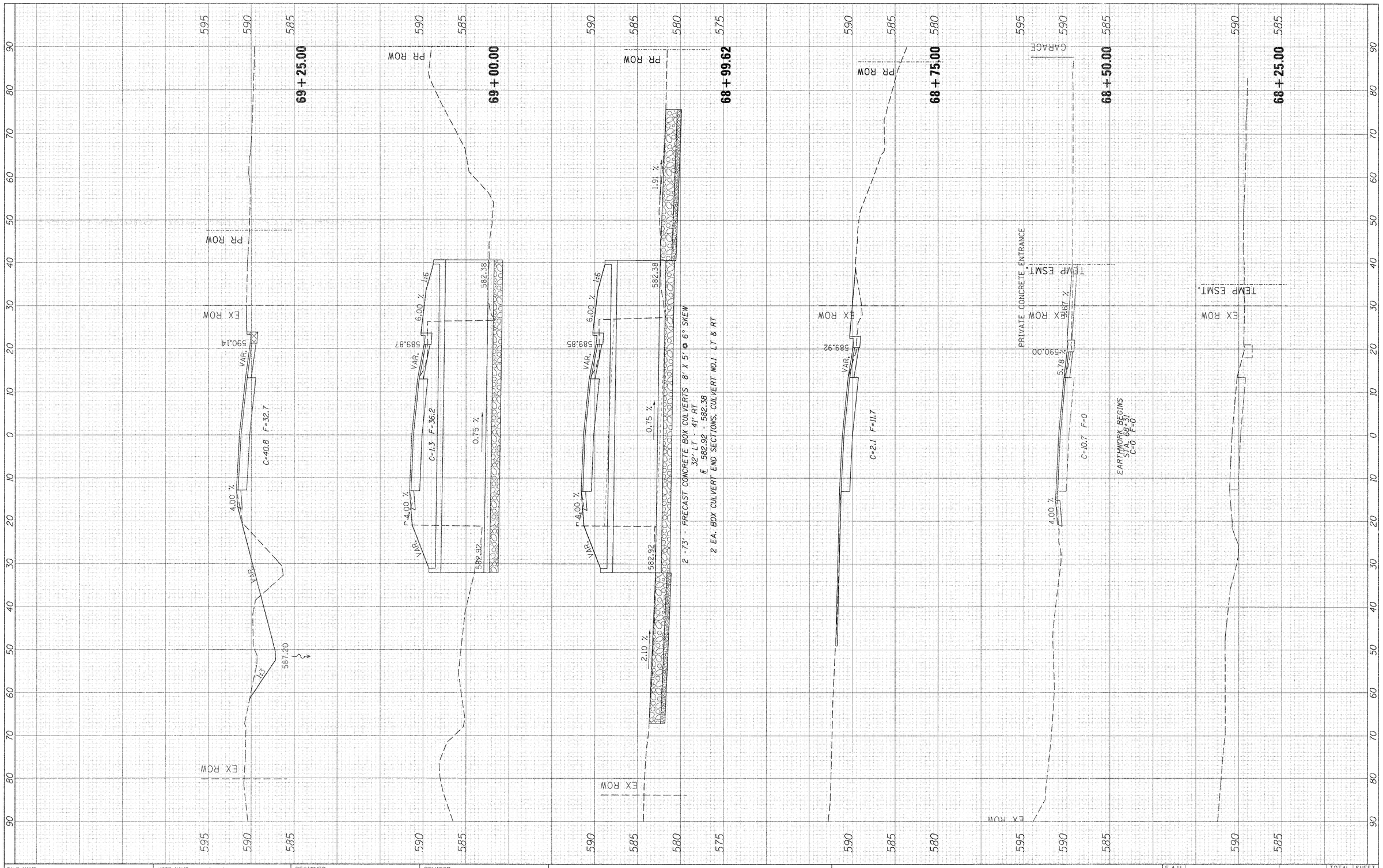
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5787	1R-T	ROCK ISLAND	25	23
		CONTRACT NO. 64E31		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES 921



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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
	AREAS CHECKED		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 84 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 68+25.00 | TO STA. 69+88.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	24
		CONTRACT NO. 64E31		
	ILLINOIS FED. AID PROJECT			

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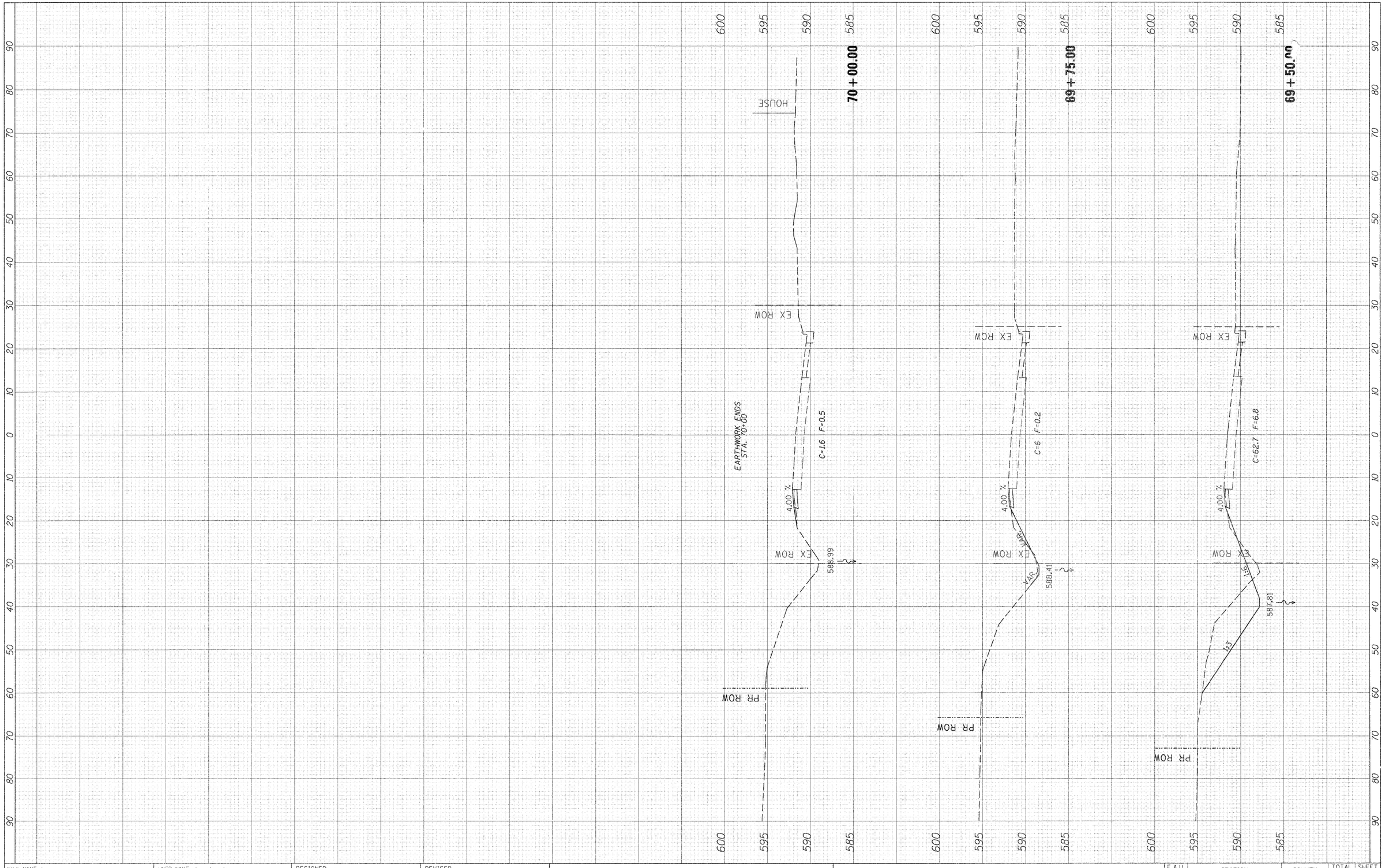

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 84 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 69+50.00 TO STA. 70+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5857	1R-T	ROCK ISLAND	25	25
		CONTRACT NO. 64E31		
	ILLINOIS	FED. AID PROJECT		