

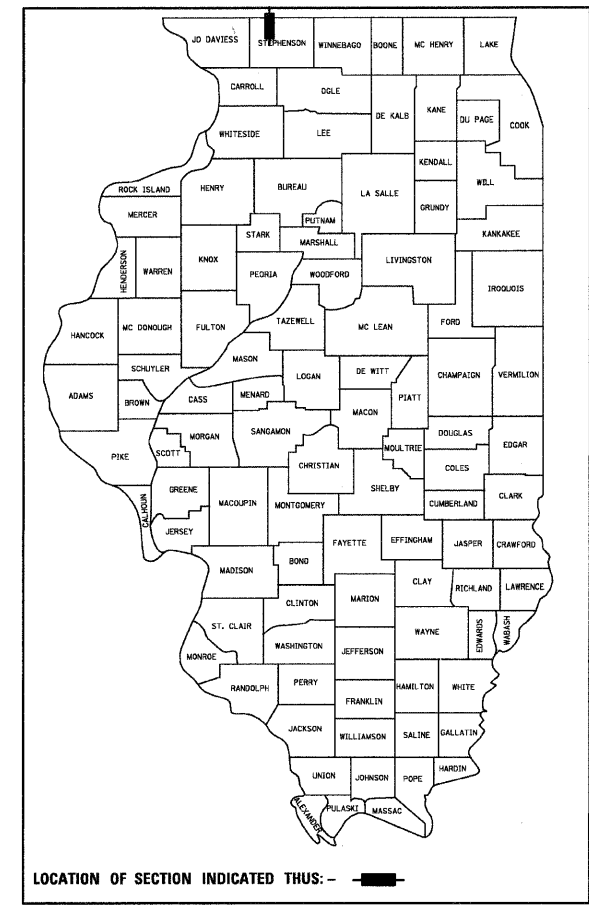
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAS ROUTE 1087 (IL 73)  
SECTION 107T-1  
PROJECT ACRS-1087(108)  
STEPHENSON COUNTY  
CULVERT REMOVAL AND REPLACEMENT

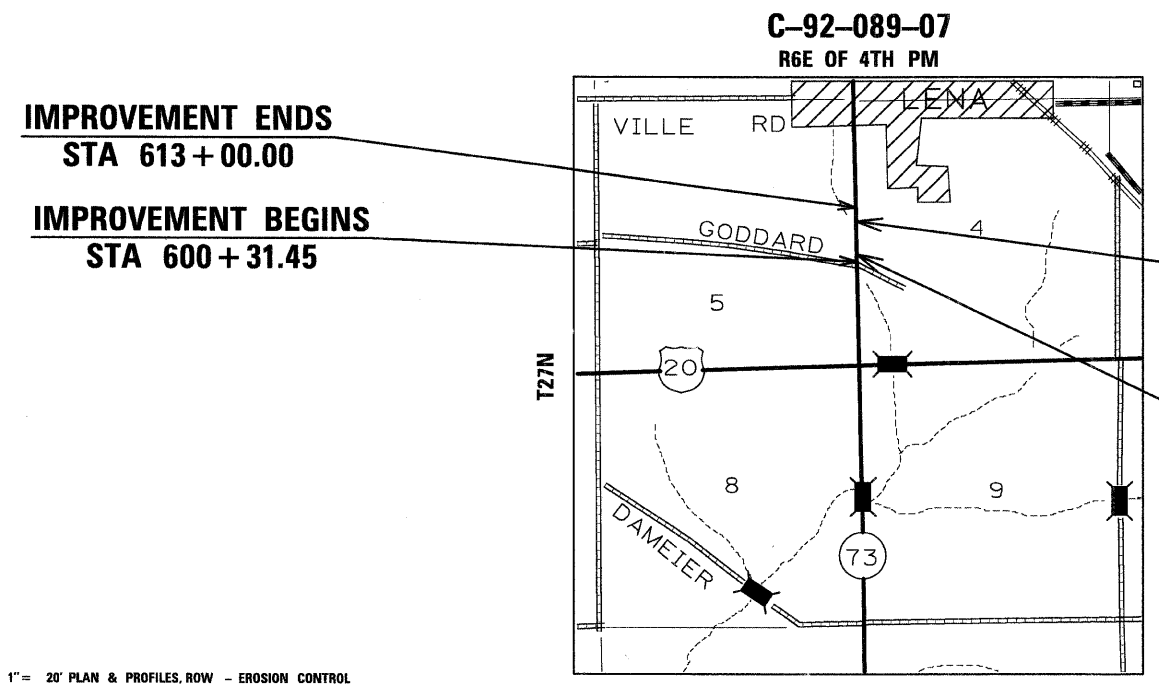
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INDEX OF SHEETS

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- 2 GENERAL NOTES, STANDARDS AND COMMITMENTS
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- 8 TIE POINTS AND BENCHMARKS
- 9-11 PLAN AND PROFILE
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- 13-15 RIGHT-OF-WAY AND EROSION CONTROL
- 16-17 CULVERT DETAILS
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- 20 DROP BOX #1
- 21 PIPE HANDRAIL DETAILS
- 22-27 CULVERT PROFILES
- 28-35 DISTRICT STANDARDS
- 36-47 CROSS SECTIONS  
HIGHWAY STANDARDS

CONSULTANT CONTACT: MARY BLOXDORF (217) 544-8477  
 SQUAD LEADER: TRACI HELFRICH (815) 284-5932  
 PROJECT ENGINEER: MASOOD AHMAD

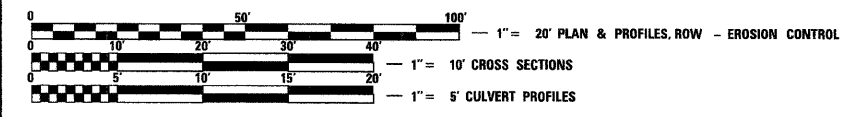


IMPROVEMENT ENDS  
STA 613+00.00

IMPROVEMENT BEGINS  
STA 600+31.45

EX SN 089-1031  
PR SN 089-1111  
STA 609+82.56, 45° SKEW

EX SN NA  
PR SN 089-1121  
STA 600+69.42, 0° SKEW

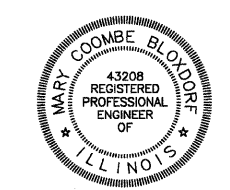


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

KENT TOWNSHIP, SECTION 4 & 5  
CONTRACT NO. 64C64

GROSS LENGTH OF PROJECT = 1268.55 LIN. FT. = 0.240 MI.  
NET LENGTH = 1268.55 LIN. FT. = 0.240 MI.



Mary Coombe Bloxdorf  
MARY COOMBE BLOXDORF, P.E., S.E.  
DATE Jan 21, 2008  
EXPIRES NOVEMBER 30, 2009

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED January 25, 2008

Steve F. Brown  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21, 2008  
Eric E. Hansen  
ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 2008  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

COOMBE-BLOXDORF P.C.  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

**LIST OF HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	REINFORCEMENT BARS, AREAS, WEIGHTS AND SPACING
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420701-02	PAVEMENT FABRIC
442101-07	CLASS B PATCHES
482001-02	HOT-MIX ASPHALT SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-02	NAME PLATE FOR BRIDGES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542546	FLUSH INLET BOX FOR MEDIA
601101	CONCRETE HEADWALL FOR PIPE DRAIN
602701-01	MANHOLE STEPS
635001	DELINEATORS
666001	RIGHT-OF-WAY MARKERS
667101	PERMANENT SURVEY MARKERS
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY ONLY
701901	TRAFFIC CONTROL DEVICES
720011	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001	TELESCOPING STEEL SIGN SUPPORT
729001	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS

**LIST OF DISTRICT 2 STANDARDS**

STANDARD NO.	DESCRIPTION
2.1	STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN (DIST STD 2.1)
23.4a	HOT-MIX ASPHALT SHOULDERS (DIST STD 23.4a)
28.4	SLOPE WALL FOR FIELD TILE OUTLETS (DIST STD 28.4)
29.2	EROSION CONTROL DETAILS FOR SILT FENCE (DIST STD 29.2)
30.2	FIELD TILE JUNCTION VAULTS (DIST STD 30.2)
37.4	DELINEATOR AND POST (DIST STD 37.4)
40.1	TRAFFIC CONTROL FOR ROAD CLOSURE (DIST STD 40.1)
40.4	ROAD CLOSED TO OVERSIZED LOADS
41.1	TYPICAL PAVEMENT MARKINGS (DIST STD 41.1)
50.4	TYPICAL BENCHING DETAIL ON EXISTING EMBANKMENT (DIST STD 50.4)
66.2	WITNESS MARKER AND PERMANENT SURVEY MARKERS, TYPE II (DIST STD 66.2)
89.4	LETTERING FOR NAME PLATE (DIST STD 89.4)

**COMMITMENTS**

- THE STONE RETAINING WALL IN THE NORTHWEST QUADRANT OF IL 73 AND GODDARD ROAD SHALL BE REPLACED WITH THE EQUIVALENT OR BETTER RETAINING WALL IF DISTURBED.
- WHEN ADDRESSING THE FIELD TILE THE PROPERTY OWNER, DR. SCHROEDER OF THE LENA VET CLINIC, WOULD LIKE JIM KLEVER TO BE CONTACTED AT 815/291-4526.

**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.
- The Contractor shall seed all disturbed areas within the project limits. 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.
- Fertilizer Nutrients shall be applied at the rate specified in Section 250 of the Standard Specifications. This shall be included in the cost of the SEEDING.
- 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. 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.
- Closed expansion joints on jointed pavements shall be re-established during the patching operations. Class B Patches - when the pavement requires patching at the location of the expansion joint, a new joint should be established using a dowelled expansion patch as shown on Highway Standard 442101. When the joint is closed, but does not require patching, an expansion joint may be formed by sawing the pavement and filling the saw cut with a preformed expansion joint filler meeting the requirements of Section 105.1 of the Standard Specifications as shown on Standard 420001.
- All mandatory joint sealing for, Class B patches as shown on the plans will not be measured for payment. Optional sawing of the joint for the sealant reservoir will not be measured for payment.  
  
For all concrete patching that will not be resurfaced, the concrete shall be struck off flush with the existing pavement surface at each end of the patch.  
  
The Engineer reserves the right to check all patches for smoothness by the use of a 10' rolling straight edge set to a 3/16" tolerance in the wheel paths. Any patch areas higher than 3/16" must be ground smooth with an approved grinding device consisting of multiple saws. The use of bushhammer or other impact devices will not be permitted. Any patch with depressions greater than 3/16" shall be repaired in a manner approved by the Engineer.  
  
The mandatory saw cuts for pavement patching are:  
**Class B Patch:** Cut two transverse saw cuts outlining the patch and one transverse pressure relief saw cut.  
  
The mandatory saw cuts will be paid for at the contract unit price per Meter (Foot) for SAW CUTS.
- The following Mixture Requirements are applicable for this project:  

Mixture Uses(s):	Bottom Shoulders	Top Shoulders	Surface Course
PG:	PG 58-22	PG 58-22	PG 58-22
Design Air Voids	2% @ N50	3% @ N50	3% @ N50
Mixture Composition (Gradation Mixture)	BAM	II 9.5 or 12.5	II 9.5 or 12.5
Friction Aggregate	N/A	C	C
20 Year ESAL	N/A	N/A	N/A
- 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.
- Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 150 mm (6") for Pipe Drains and 200 mm (8") for Storm Sewer, but the size must be at least 50 mm (2") larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer.
- Pavement Marking shall be done according to Standard 780001, except as follows:
  - The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines
- Right-of-way markers will be erected with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 300 mm (12 inches) inside the new right-of-way line.

- 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:

Mediacom	CATV
Commonwealth Edison Company	Electric
Verizon	Telephone
NICOR Gas Co.	Gas
Village of Lena	Water and Sewer

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.

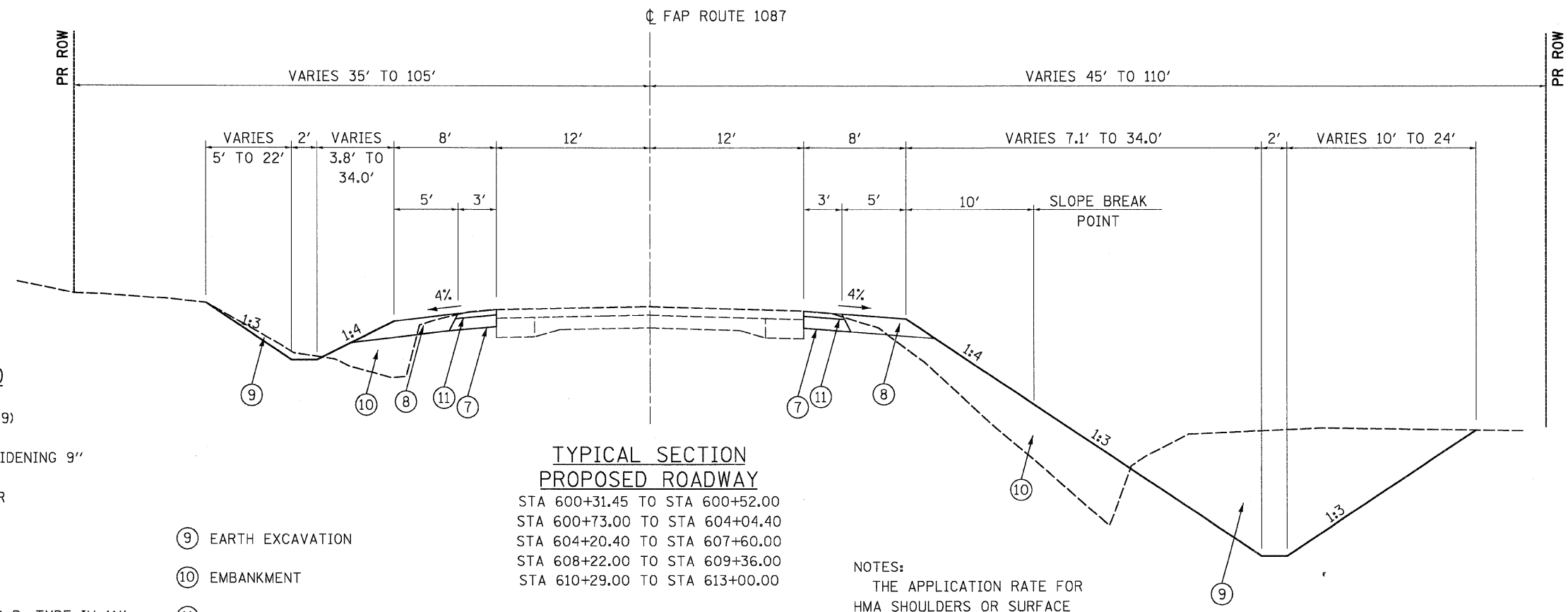
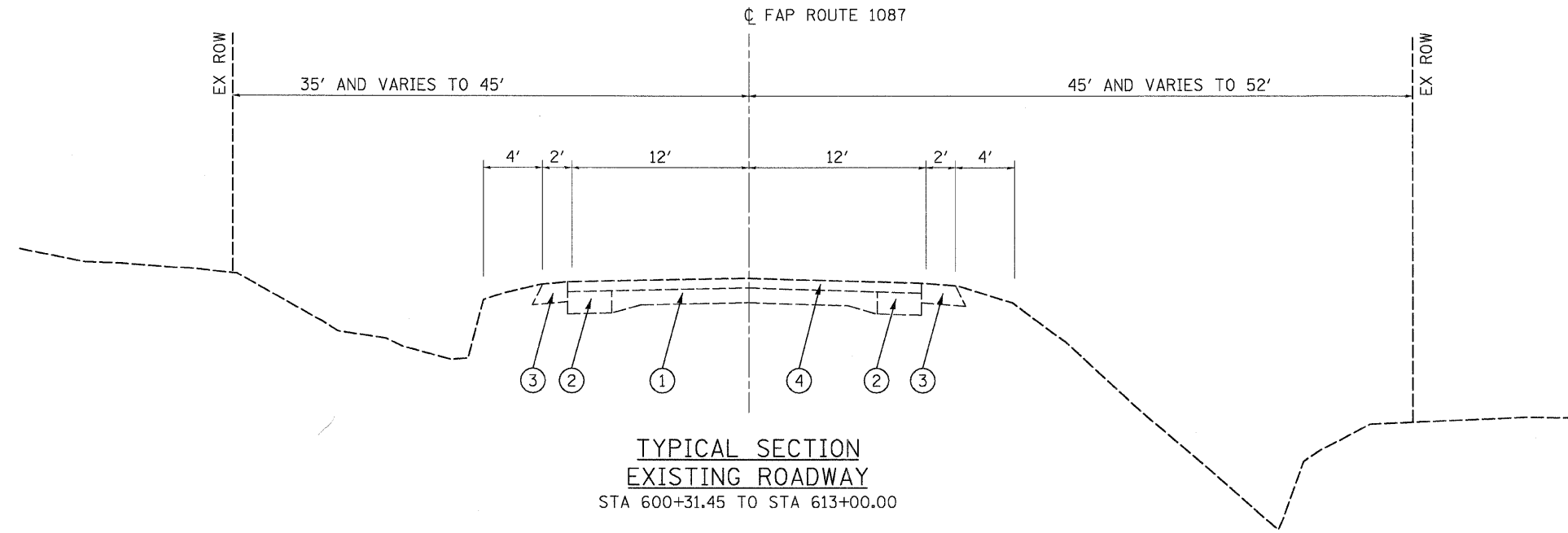
Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days.

- 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.
- The quantity of Cubic Yards of Rock Excavation for Structures is included in the quantities in the event that it will be required at the proposed pipe at Sta 600+69.49 and the proposed Reinforced Concrete Double Box Culvert at Sta 609+82.56.
- The quantity for Paved Shoulder Removal is estimated for removal along the length of existing guardrail. It is assumed to be from edge of pavement to face of guardrail.
- The quantity estimated for Temporary Erosion Control Seeding was based on 2 applications over entire disturbed areas.
- 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 new number for the structure at Sta. 600+69.49 will be SN 089-1121. The new number for the structure at Sta. 609+82.56 will be SN 089-1111.
- Delineators shall be placed at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.
- 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.
- Good Neighbor Policy: The Good Neighbor Policy shall be implemented on the detour route and on the alternate routes on this project. Stephenson County has indicated that West Howardsville Road (known as Townline Road within the Village of Lena limits), 5 Corners Road and West Goddard Road are the alternate routes in this project. The quantities in the plans are based on 5% of the total areas of these roads. The length of these roads are indicated in the plans (see Bituminous Schedule). These roads shall be resurfaced with 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, SPECIAL. Resurfacing of these roads shall be based upon recommendations by both the Department and the Stephenson County officials after IL 73/Goddard Road intersection is open to traffic. Quantities shall be deducted from the contract plan quantities if not used.
- 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 Highway Standard 667101.
- The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.
- The Contractor shall clean out all AR culverts and stream flows to the right-of-way lines on the entire section. The cost shall be included in the contract unit price for Removal of Existing Structure No. 1, No. 2 or No. 3.

**COOMBE-BLOXDORF P.C.**  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

FILE NAME =	USER NAME = CFC-ns	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, STANDARDS AND COMMITMENTS</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...07\07075\08-ns\z11306crr2.dgn		DRAWN -	REVISED -			1087	107T-1	STEPHENSON	47	2	
		CHECKED -	REVISED -			SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 64C64			
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					





**LEGEND**

- ① EX PCC PAVEMENT (9-6-9)
- ② EX HMA BASE COURSE WIDENING 9"
- ③ EX AGGREGATE SHOULDER
- ④ EX HMA OVERLAYS 4"
- ⑤ TRENCH BACKFILL
- ⑥ PAVEMENT PATCH, CLASS B, TYPE IV 11"
- ⑦ HMA SHOULDERS 6"
- ⑧ 8" AGGREGATE SHOULDERS, TYPE B
- ⑨ EARTH EXCAVATION
- ⑩ EMBANKMENT
- ⑪ HMA SURFACE COURSE, MIX "C", N50 2"
- ⑫ PAVEMENT MARKING
- ⑬ CA 6 OR CA 10 - COST INCLUDED WITH HMA SHOULDER

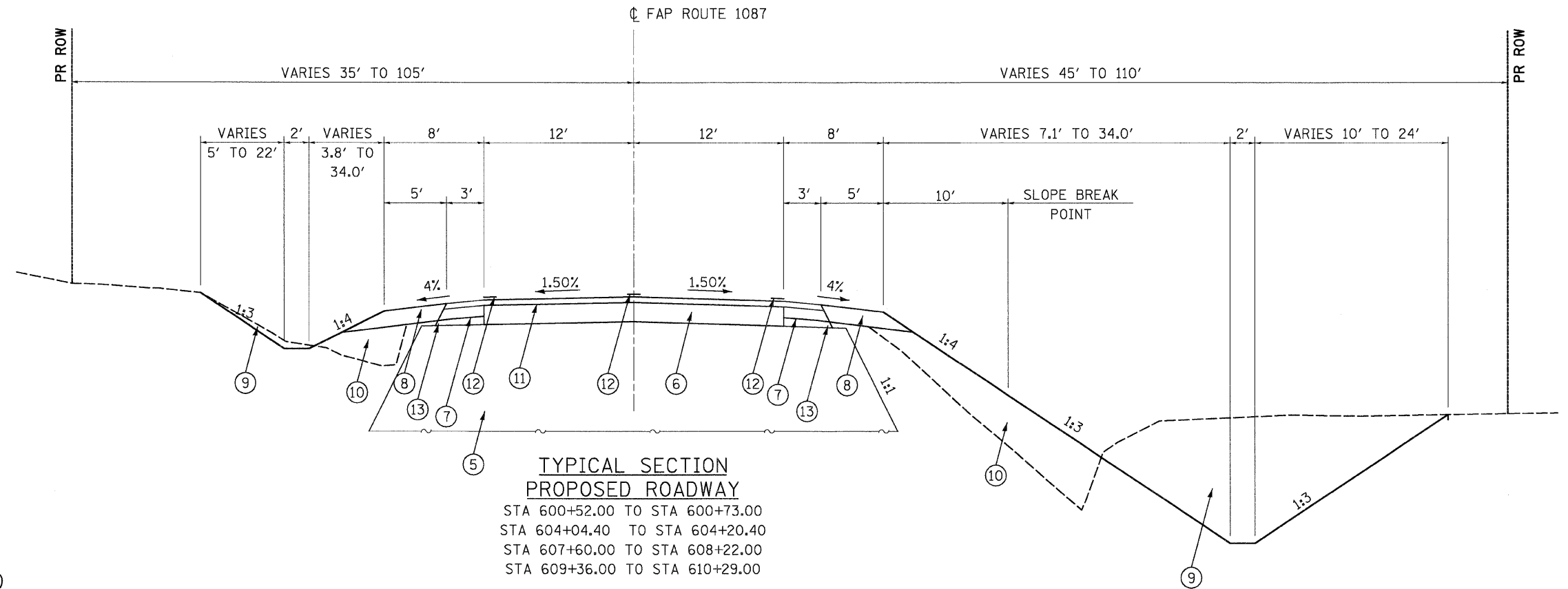
**TYPICAL SECTION PROPOSED ROADWAY**  
 STA 600+31.45 TO STA 600+52.00  
 STA 600+73.00 TO STA 604+04.40  
 STA 604+20.40 TO STA 607+60.00  
 STA 608+22.00 TO STA 609+36.00  
 STA 610+29.00 TO STA 613+00.00

**NOTES:**  
 THE APPLICATION RATE FOR HMA SHOULDERS OR SURFACE COURSE IS 112#/IN/SQ YD.  
 THE AGGREGATE SHOULDER BEGINS RT STA 600+31.45 AND LT STA 600+60.00

**COOMBE-BLOXDORF P.C.**  
 Engineers / Land Surveyors  
 Springfield, Illinois  
 Design Firm License No. 184-002703

FILE NAME = ...07\07075\vb-nb\z11306.tjpl.dgn	USER NAME = CFC-na	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>		F.A.S. RTE. 1087	SECTION 107T-1	COUNTY STEPHENSON	TOTAL SHEETS 47	SHEET NO. 4	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			
PLOT DATE = 01/21/2008	DATE -	REVISED -	REVISED -									





**LEGEND**

- ① EX PCC PAVEMENT (9-6-9)
- ② EX HMA BASE COURSE WIDENING 9"
- ③ EX AGGREGATE SHOULDER
- ④ EX HMA OVERLAYS 4"
- ⑤ TRENCH BACKFILL
- ⑥ PAVEMENT PATCH, CLASS B, TYPE IV 11"
- ⑦ HMA SHOULDERS 6"
- ⑧ 8" AGGREGATE SHOULDERS, TYPE B
- ⑨ EARTH EXCAVATION
- ⑩ EMBANKMENT
- ⑪ HMA SURFACE COURSE, MIX "C", N50 2"
- ⑫ PAVEMENT MARKING
- ⑬ CA 6 OR CA 10 - COST INCLUDED WITH HMA SHOULDER

FILE NAME =	USER NAME = CFC-na	DESIGNED -	REVISED -
...\\07\07075\8-na\z11306.tjpl.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000" / IN.	CHECKED -	REVISED -
	PLOT DATE = 01/21/2008	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

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

<b>COOMBE-BLOXDORF P.C.</b>				
Engineers / Land Surveyors				
Springfield, Illinois				
Design Firm License No. 184-002703				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	5
CONTRACT NO. 64C64				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PAVEMENT PATCHING SCHEDULE						
LOCATION	44213200	Z0017202	44213100	44200988	Z0075300	40603310
	SAW CUTS	DOWEL BARS 1 1/2"	PAVEMENT FABRIC	CLASS B PATCHES TYPE M 11"	TIE BARS	HOT-MX ASPHALT SURF CSE MX "C", N50
	(FT)	(EACH)	(SY)	(SY)	(EACH)	TON
STA 600+52.00 TO STA 600+83.00	120	80	82.7	82.7	31	9.3
STA 604+04.40 TO STA 604+20.40	120	40	42.7	42.7	16	4.8
STA 607+60.00 TO STA 608+22.00	120	120	165.3	165.3	62	18.5
STA 609+36.00 TO STA 610+29.00	120	160	248.0	248.0	93	27.8
<b>TOTAL</b>	<b>480</b>	<b>400</b>	<b>539</b>	<b>539</b>	<b>202</b>	<b>60</b>

SEE SHOULDER SCHEDULE FOR ADDITIONAL HMA SURFACE COURSE

SHOULDER SCHEDULE			
LOCATION	48203021	48101200	40603310
	HOT-MX ASPHALT SHOULDERS 6"	AGGREGATE SHOULDERS TYPE B, 8"	HOT-MX ASPHALT SURF CSE MX "C", N50
	SY	TON	TON
RT STA 600+31.45 TO STA 600+52.00	3.5	4.9	0.4
STA 600+52.00 TO STA 600+83.00	29.5	15.3	3.2
RT STA 600+83.00 TO STA 604+04.40	113.2	97.6	12.3
LT STA 600+83.00 TO STA 604+04.40	113.2	97.6	12.3
STA 604+04.40 TO STA 604+20.40	11.3	9.7	1.2
RT STA 604+20.40 TO STA 607+60.00	119.6	103.1	13.0
LT STA 604+20.40 TO STA 607+60.00	119.6	103.1	13.0
STA 607+60.00 TO STA 608+22.00	43.7	37.7	4.8
RT STA 608+22.00 TO STA 609+36.00	40.2	34.6	4.4
LT STA 608+22.00 TO STA 609+36.00	40.2	34.6	4.4
STA 609+36.00 TO STA 610+29.00	65.5	56.5	7.1
RT STA 610+29.00 TO STA 612+50.00	60.2	62.0	6.6
LT STA 610+29.00 TO STA 613+00.00	77.8	77.2	8.5
<b>TOTAL</b>	<b>838</b>	<b>734</b>	<b>91</b>

HMA SHOULDER BEGINS RT STA 600+42.00 AND ENDS RT STA 612+00.00  
HMA SHOULDER BEGINS LT STA 600+52.00 AND ENDS LT STA 612+50.00

PAVEMENT MARKING SCHEDULE						
LOCATION	78001110		78001180	78001100	70300100	70301000
	PAINT PAVEMENT MARKING - LINE 4"					
	CENTERLINE DOUBLE LINE	EDGE LINE	PAINT PAVEMENT MARKING - LINE 24"	PAINT PAVEMENT MARKING - LETTERS & SYMBOLS	SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL
	SOLID - YELLOW	SOLID - WHITE			YELLOW	
	FOOT	FOOT	FOOT	SF	FOOT	SF
STA 600+52 TO STA 613+00	4992	4992	-	-	-	-
STA 600+52 TO STA 600+83	-	-	-	-	4	1.33
STA 604+04.40 TO STA 604+20.40	-	-	-	-	4	1.33
STA 607+60 TO STA 608+22	-	-	-	-	8	2.67
STA 609+36 TO STA 610+29	-	-	-	-	12	4.0
RR CROSSING - WEST GALENA RD	-	-	72	122.4	-	-
<b>TOTAL</b>		9984 *	72	123	28	10

\* ASSUMES 2 APPLICATIONS, SEE GOOD NEIGHBOR POLICY SCHEDULE FOR ADDITIONAL PAINT PAVEMENT MARKING - LINE 4"

RIGHT-OF-WAY MARKER SCHEDULE		
LOCATION	OFFSET (FT)	66600105
		(EACH)
RT STA 600+30.30	153.52	1
RT STA 600+58.77	110.20	1
LT STA 600+75.68	60.00	1
LT STA 601+00.00	60.00	1
RT STA 601+00.00	75.00	1
LT STA 602+00.00	45.00	1
RT STA 603+00.00	70.00	1
LT STA 604+00.00	45.00	1
RT STA 606+00.00	70.00	1
RT STA 609+00.00	110.00	1
LT STA 609+00.00	100.00	1
RT STA 610+00.00	110.00	1
LT STA 610+50.00	105.00	1
LT STA 611+00.00	70.00	1
LT STA 612+00.00	45.00	1
LT STA 613+00.00	35.00	1
RT STA 613+00.00	50.00	1
<b>TOTAL</b>		<b>17</b>

RELOCATE EXISTING SURVEY MARKER SCHEDULE	
LOCATION	Z0049800
	EACH
STA 606+29.19, 17.02' RT	1
<b>TOTAL</b>	<b>1</b>

REMOVAL OF EXISTING STRUCTURES SCHEDULE			
NUMBER	PAY CODE	LOCATION	DESCRIPTION
1	50100300	STA 600+62.28	2 FT SPAN x 2' RISE RCBC
2	50100400	STA 604+12.40	3 FT SPAN x 2' RISE RCBC
3	50100500	STA 607+90.44	7 FT SPAN x 4.5' RISE RCBC EX SN 089-1031

EARTHWORK SCHEDULE			
LOCATION	20200100	NOT A PAY ITEM	NOT A PAY ITEM
	EARTH EXCAVATION	EMBANKMENT	WASTE EXCAVATION
	CU YD	CU YD	CU YD
STA 599+94 TO STA 605+00 (INCLUDES GODDARD ROAD)	1540	974	274
STA 605+00 TO STA 611+00	4434	786	3412
STA 611+00 TO STA 613+00	352	11	338
<b>TOTALS</b>	<b>6325</b>	<b>1771</b>	<b>4024</b>

ITEMS ASSUME 30% SHRINKAGE FACTOR

**COOMBE-BLOXDORF P.C.**  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

FILE NAME =	USER NAME = CFC-na	DESIGNED -	REVISED -
...\\07\07075\vr-na\z11306evr4.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	6
				CONTRACT NO. 64C64
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



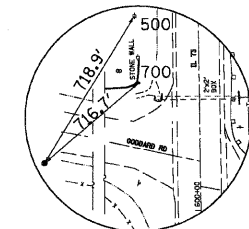
SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2075636.9581	2388024.5448	894.7286	IL73	609+00.865167	44.1455' RT	TOPO SURVEY POINT

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	2075881.2447	2387944.1023	898.8567	IL73	611+46.283896	32.7739' LT	POWER POLE
428	2074714.1054	2388131.9289	887.7799	IL73	599+76.562941	138.2404' RT	CHISELED SQUARE

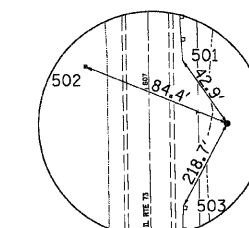
APPARENT PROPERTY CORNERS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	2074806.4438	2387959.1071	890.7843	IL73	600+71.378362	33.235' LT	PROPERTY CORNER
701	2075084.2053	2387954.8774	892.9321	IL73	603+49.171967	33.4678' LT	PROPERTY CORNER

REFERENCE TIES					
POINT	CHAIN	STATION	OFFSET	DESCRIPTION	
500	IL73	602+63.079110	31.734' LT	POWER POLE	
501	IL73	607+15.572622	18.7749' RT	GUARDRAIL STEEL PLATE BEAM	
502	IL73	607+12.737114	34.7892' LT	R.O.W. MARKER	
503	IL73	604+62.863458	18.5389' RT	GUARDRAIL STEEL PLATE BEAM	
504	IL73	608+16.482267	19.2962' RT	GUARDRAIL STEEL PLATE BEAM	
505	IL73	609+70.107776	35.3258' LT	POWER POLE	

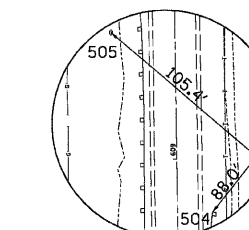
HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
90409	2074889.3606	2387247.1924	909.8153	IL73	601+64.529689	743.8829' LT	PIN & CAP GPS CONTROL POINT
90413	2075416.3282	2388026.6353	891.0160	IL73	606+80.228027	43.0613' RT	GPS CONTROL POINT



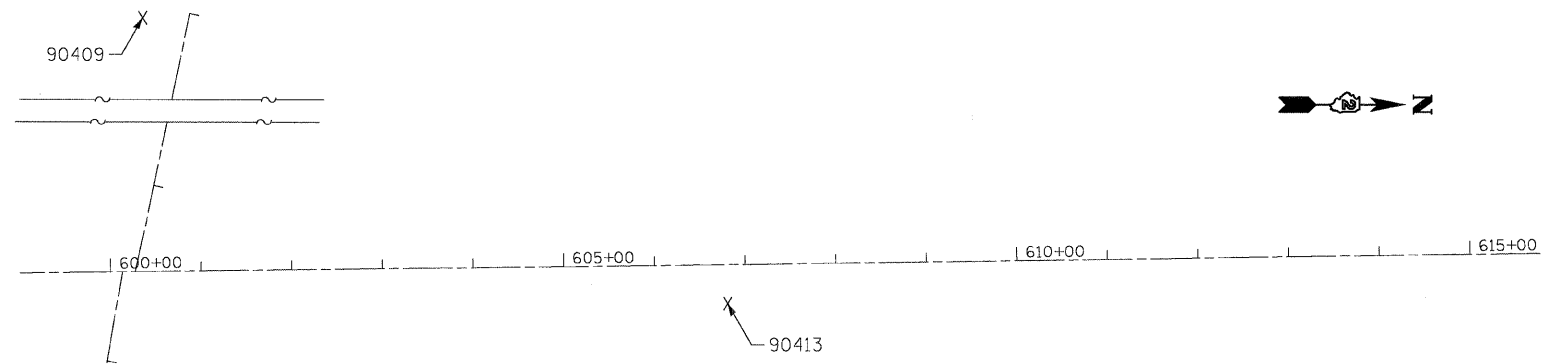
HORIZONTAL CONTROL POINT NO. 90409



HORIZONTAL CONTROL POINT NO. 90413



SURVEY WORK POINT NO. 100

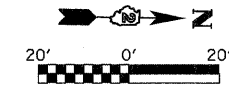


**COOMBE-BLOXDORF P.C.**  
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 Springfield, Illinois  
 Design Firm License No. 184-002703

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	8
CONTRACT NO. 64C64				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

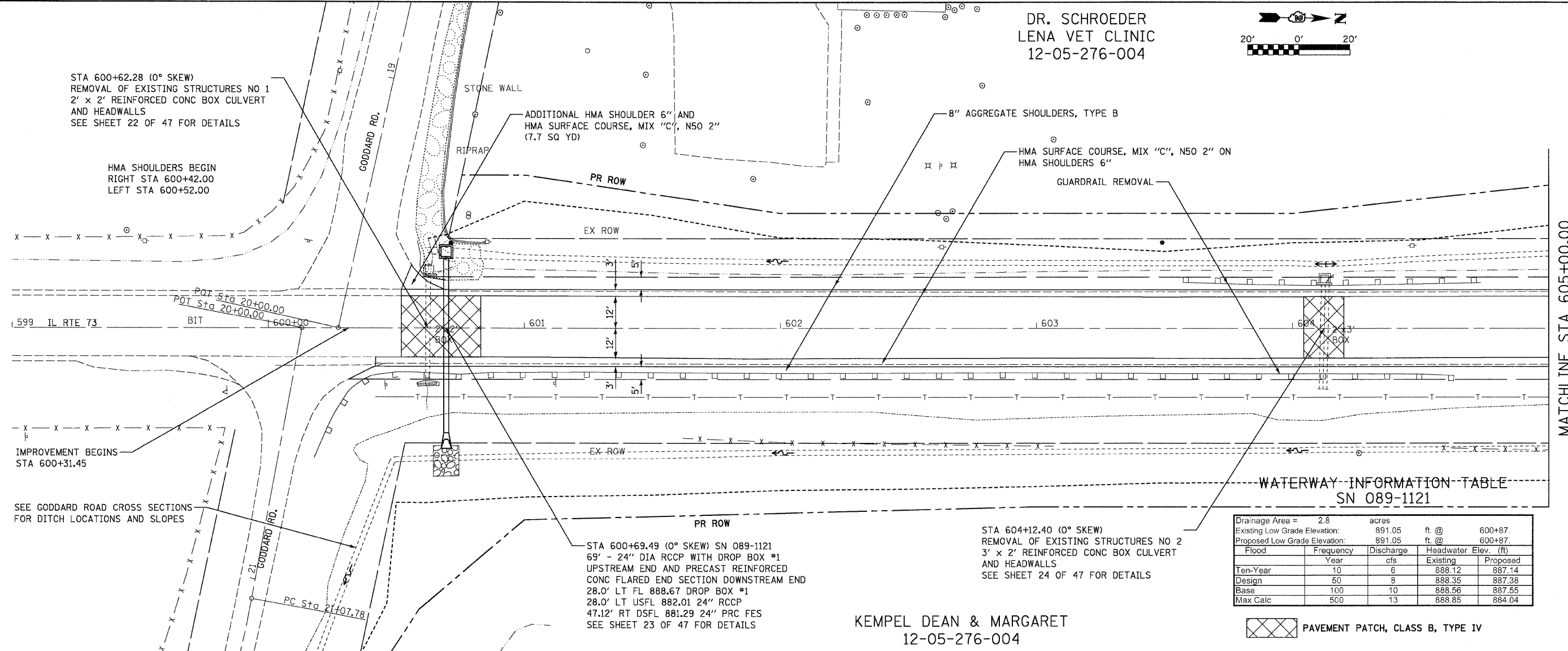
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	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -						
	PLOT DATE = 01/21/2008	CHECKED -	REVISED -						
		DATE -	REVISED -						

DR. SCHROEDER  
LENA VET CLINIC  
12-05-276-004



STA 600+62.28 (0° SKEW)  
REMOVAL OF EXISTING STRUCTURES NO 1  
2' x 2' REINFORCED CONC BOX CULVERT  
AND HEADWALLS  
SEE SHEET 22 OF 47 FOR DETAILS

HMA SHOULDERS BEGIN  
RIGHT STA 600+42.00  
LEFT STA 600+52.00



IMPROVEMENT BEGINS  
STA 600+31.45

SEE GODDARD ROAD CROSS SECTIONS  
FOR DITCH LOCATIONS AND SLOPES

STA 600+69.49 (0° SKEW) SN 089-1121  
69' - 24" DIA RCCP WITH DROP BOX #1  
UPSTREAM END AND PRECAST REINFORCED  
CONC FLARED END SECTION DOWNSTREAM END  
28.0' LT FL 888.67 DROP BOX #1  
28.0' LT USFL 882.01 24" RCCP  
47.12' RT DSFL 881.29 24" PRC FES  
SEE SHEET 23 OF 47 FOR DETAILS

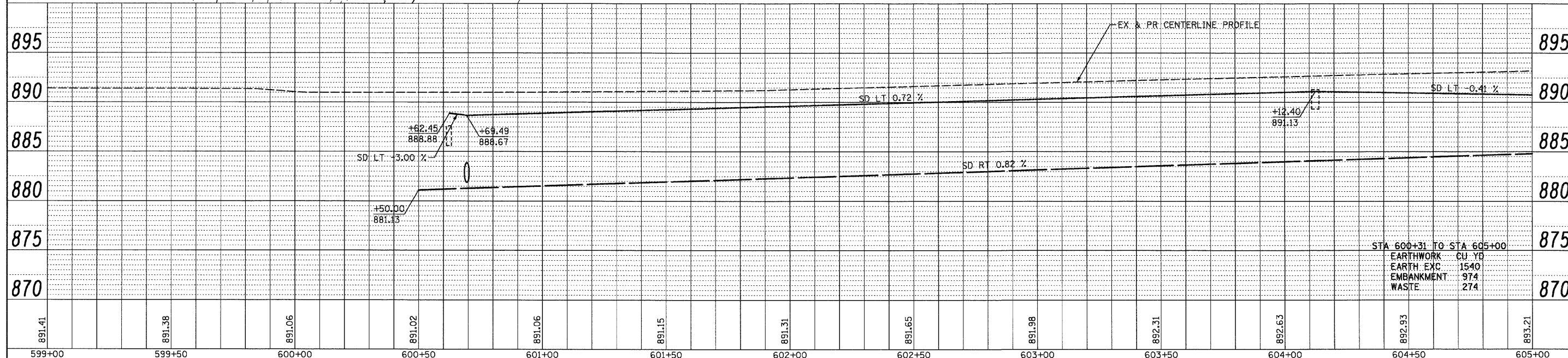
STA 604+12.40 (0° SKEW)  
REMOVAL OF EXISTING STRUCTURES NO 2  
3' x 2' REINFORCED CONC BOX CULVERT  
AND HEADWALLS  
SEE SHEET 24 OF 47 FOR DETAILS

KEMPEL DEAN & MARGARET  
12-05-276-004

WATERWAY INFORMATION TABLE  
SN 089-1121

Drainage Area =	2.8	acres		
Existing Low Grade Elevation:	891.05	ft. @	600+87.	
Proposed Low Grade Elevation:	891.05	ft. @	600+87.	
Flood	Year	Discharge	Headwater Elev. (ft)	
		cfs	Existing	Proposed
Ten-Year	10	6	888.12	887.14
Design	50	8	888.35	887.38
Base	100	10	888.56	887.55
Max Calc	500	13	888.85	884.04

PAVEMENT PATCH, CLASS B, TYPE IV



STA 600+31 TO STA 605+00	
EARTHWORK	CU YD
EARTH EXC	1540
EMBANKMENT	974
WASTE	274

PLAN	SURVEYED	DATE
	BY	
	DATE	
	BY	
	DATE	
	BY	
	DATE	
	BY	
	DATE	
	BY	
	DATE	

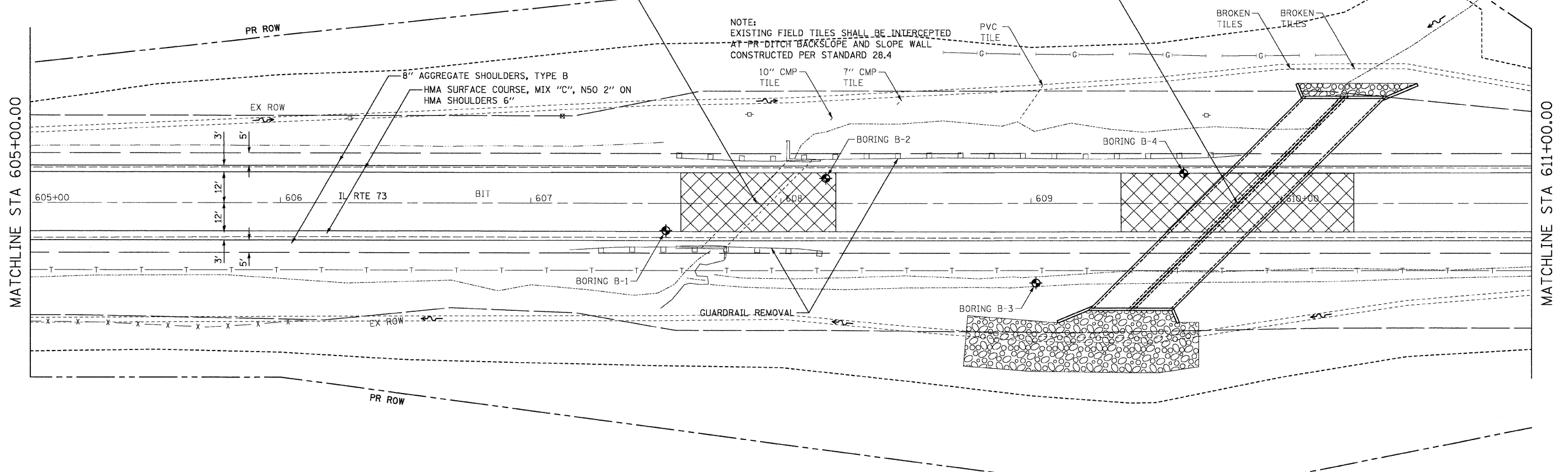
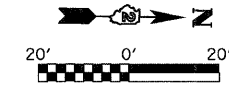
PROFILE	SURVEYED	DATE
	BY	
	DATE	
	BY	
	DATE	
	BY	
	DATE	
	BY	
	DATE	
	BY	
	DATE	

FILE NAME =	USER NAME = CFC-na	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\07\07075\8-na\11306p1.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			1087	107T-1	STEPHENSON	47	9
PLOT DATE = 01/21/2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64C64		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -							

DR. SCHROEDER  
LENA VET CLINIC  
12-05-276-004

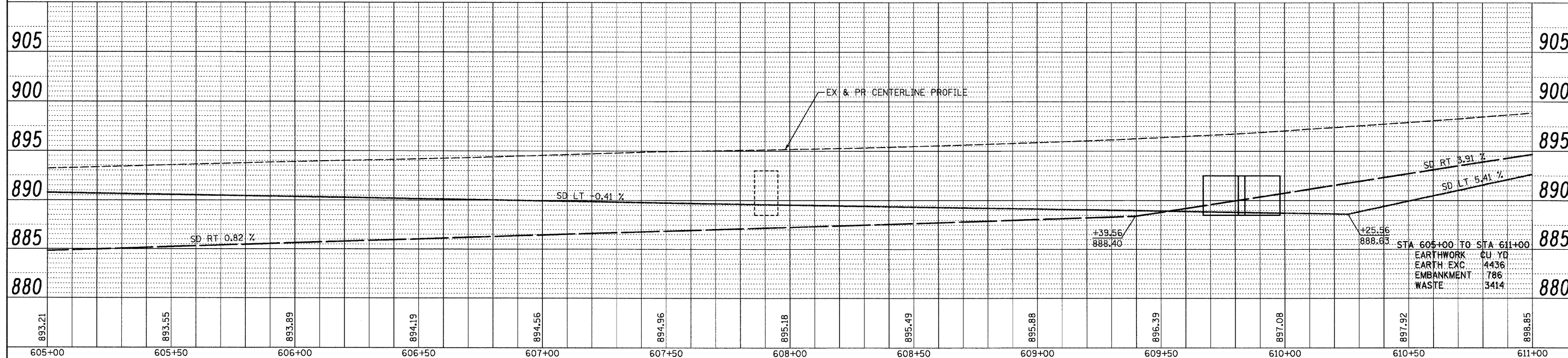
STA 607+90.44 (42° SKEW LEFT FORWARD)  
REMOVAL OF EXISTING STRUCTURES NO 3  
7' x 4.5' REINFORCED CONC BOX CULVERT AND  
HEADWALLS EX SN 089-1031  
SEE SHEET 25 OF 47 FOR DETAILS

STA 609+82.56 (45° SKEW LEFT FORWARD)  
PRECAST CONCRETE DOUBLE BOX CULVERTS  
10'-0" SPAN x 4'-0" RISE WITH CAST IN PLACE  
HEADWALLS AND WINGWALLS PR SN 089-1111  
121'-7 1/2" IN LENGTH ALONG SKEW  
STA 610+25.56, 43.0' LT, USFL 888.63  
STA 609+39.56, 43.0' RT, USFL 888.40  
SEE SHEETS 26-27 OF 47 FOR DETAILS



KEMPEL DEAN & MARGARET  
12-05-276-004

PAVEMENT PATCH, CLASS B, TYPE IV



PLAN	SURVEYED	BY	DATE
	ALIGNED		
	CHECKED		
	INT. OF WAY		
	CHECKED		
	NO.		
	ADD. FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO.		
	STRUCTURE NOTATIONS		
	CIPRO		

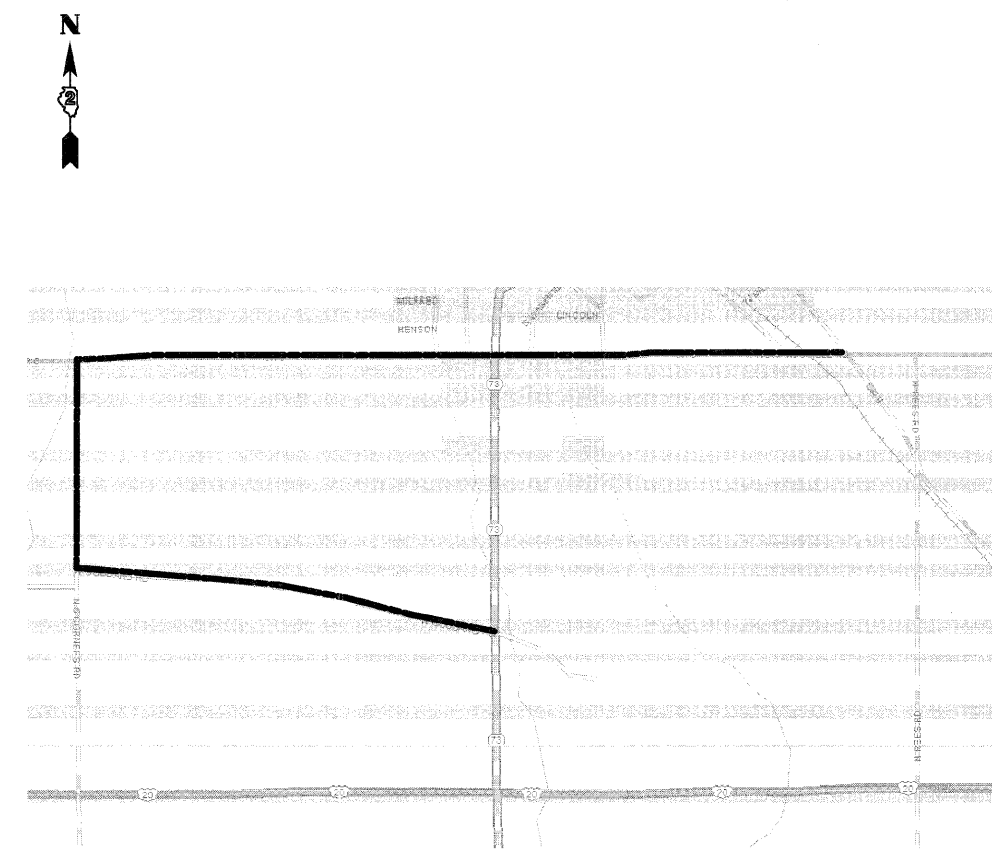
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...\\07\07875\vb8-na\z11306p1-2.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	1087	107T-1	STEPHENSON	47 10
		CHECKED -	REVISED -									
		DATE -	REVISED -									







DETOUR ROUTE



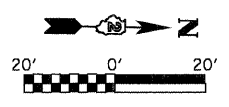
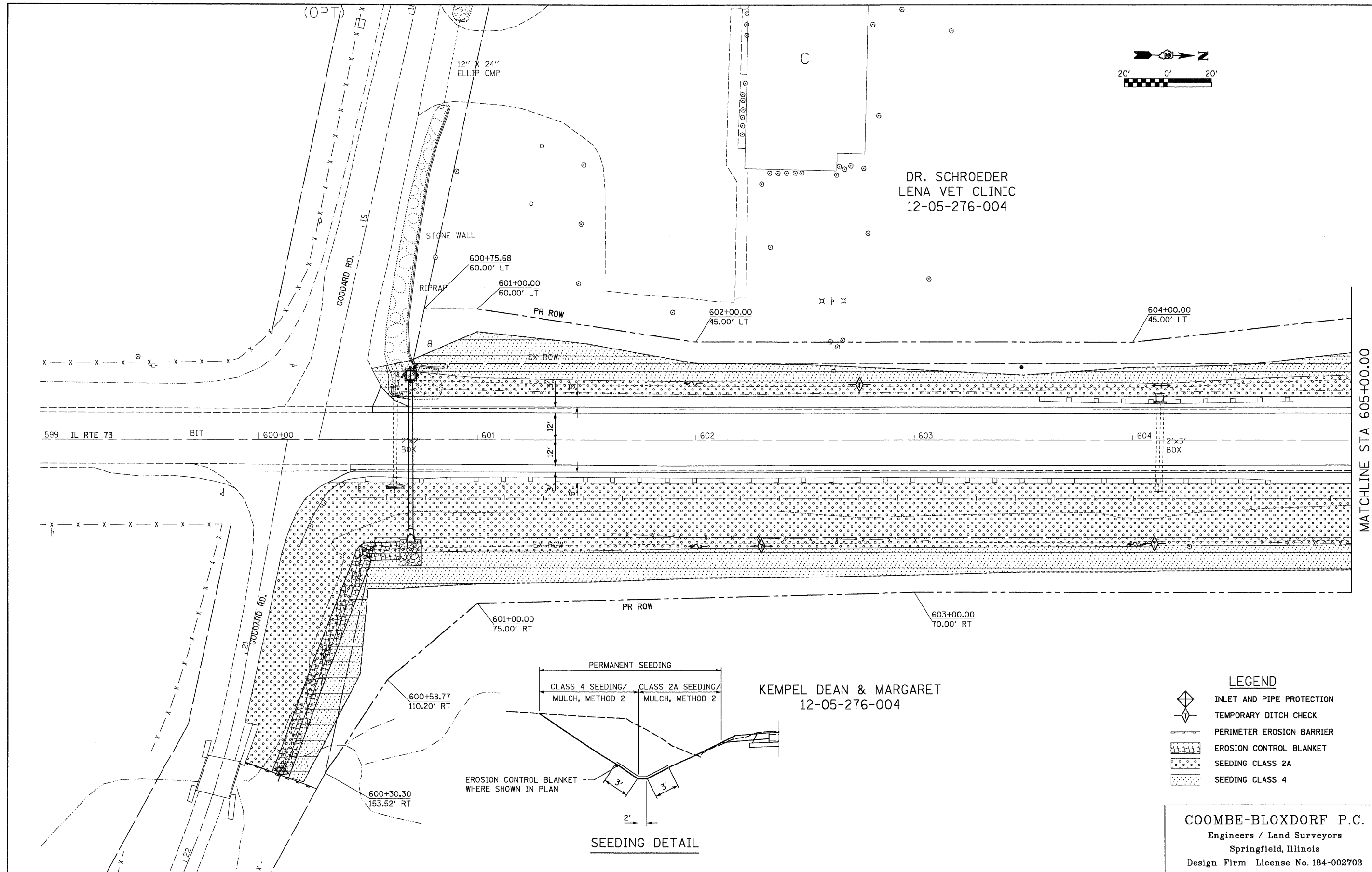
GOOD NEIGHBOR POLICY ROUTE

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	PLOT SCALE = 1,0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 01/21/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

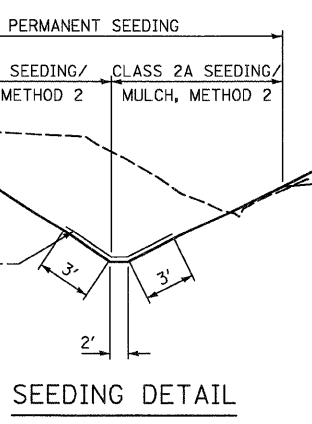
<b>DETOUR ROUTE DETAIL</b>			
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

<b>COOMBE-BLOXDORF P.C.</b>			
Engineers / Land Surveyors			
Springfield, Illinois			
Design Firm License No. 184-002703			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
1087	107T-1	STEPHENSON	47
			SHEET NO. 12
CONTRACT NO. 64C64			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



DR. SCHROEDER  
LENA VET CLINIC  
12-05-276-004

KEMPEL DEAN & MARGARET  
12-05-276-004



**LEGEND**

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- SEEDING CLASS 2A
- SEEDING CLASS 4

**COOMBE-BLOXDORF P.C.**  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

FILE NAME = k:\07\07075\vb-na\z11306e-1.dgn	USER NAME = CFC-na	DESIGNED -	REVISD -
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	PLOT DATE = 01/21/2008	CHECKED -	REVISD -
		DATE -	REVISD -

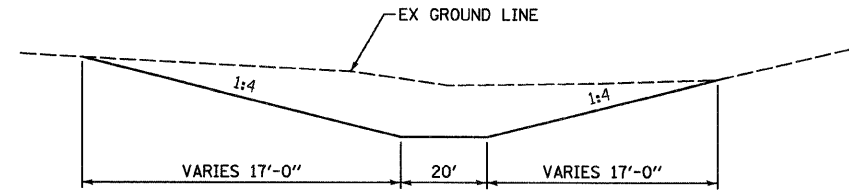
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**RIGHT OF WAY AND EROSION CONTROL PLAN**

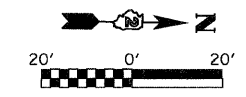
SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE. 1087	SECTION 107T-1	COUNTY STEPHENSON	TOTAL SHEETS 47	SHEET NO. 13
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

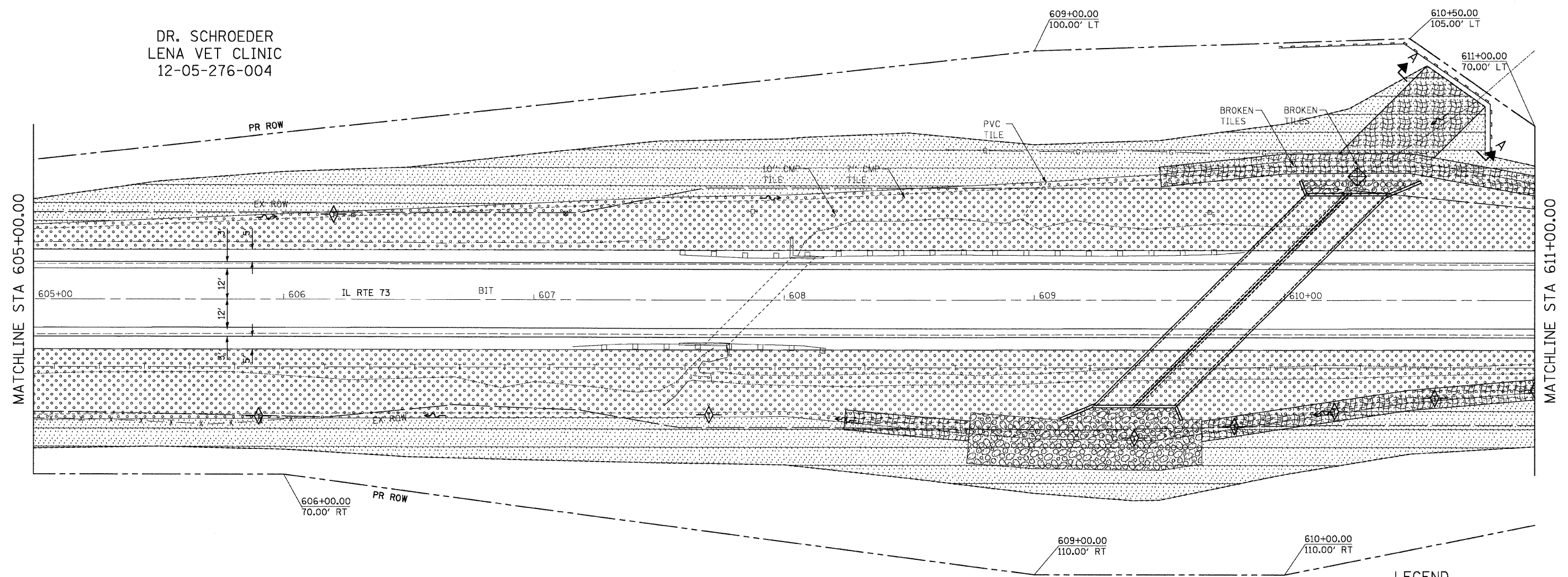
MATCHLINE STA 605+00.00



SECTION A-A



DR. SCHROEDER  
LENA VET CLINIC  
12-05-276-004



KEMPEL DEAN & MARGARET  
12-05-276-004

- LEGEND**
- INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK
  - PERIMETER EROSION BARRIER
  - EROSION CONTROL BLANKET
  - SEEDING CLASS 2A
  - SEEDING CLASS 4

**COOMBE-BLOXDORF P.C.**  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

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	PLOT DATE = 01/21/2008	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

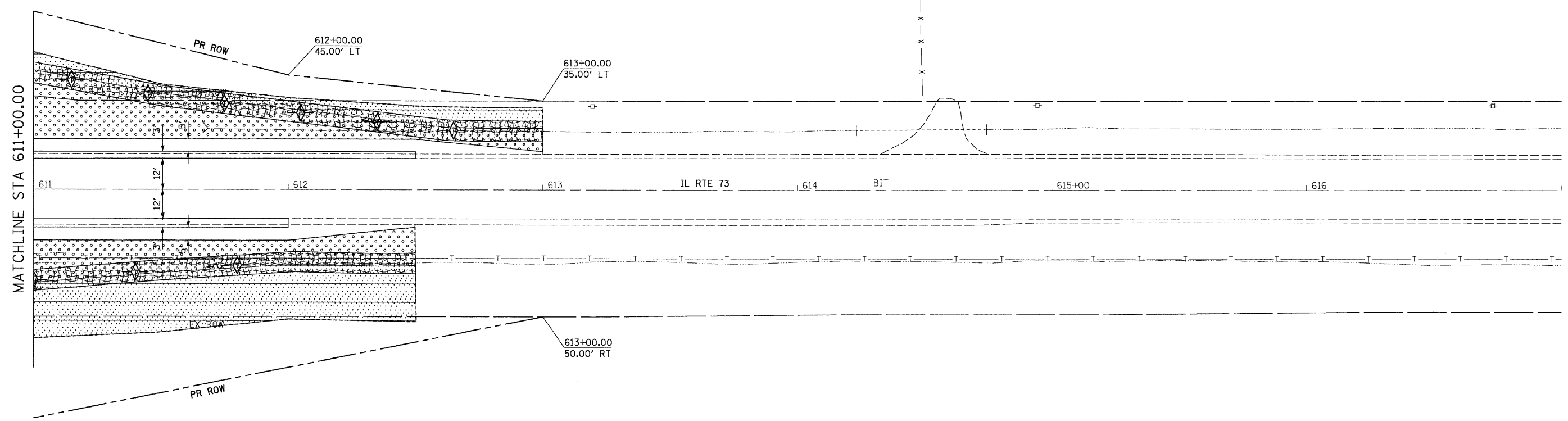
**RIGHT OF WAY AND EROSION CONTROL PLAN**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	14
CONTRACT NO. 64C64			ILLINOIS FED. AID PROJECT	



DR. SCHROEDER  
LENA VET CLINIC  
12-05-276-004



KEMPEL DEAN & MARGARET  
12-05-276-004

- LEGEND**
- INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK
  - PERIMETER EROSION BARRIER
  - EROSION CONTROL BLANKET
  - SEEDING CLASS 2A
  - SEEDING CLASS 4

**COOMBE-BLOXDORF P.C.**  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

FILE NAME = k:\07\07075\v8-na\z11306e3.dgn	USER NAME = CFC-na	DESIGNED -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

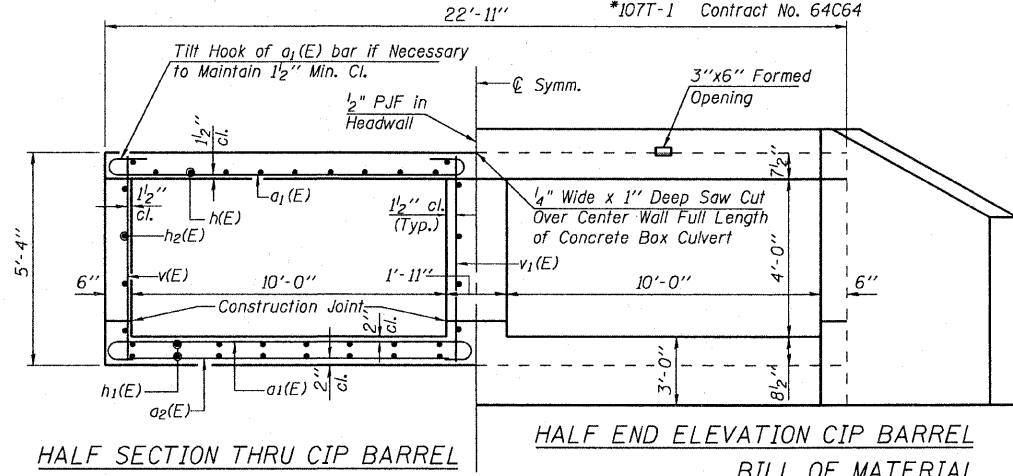
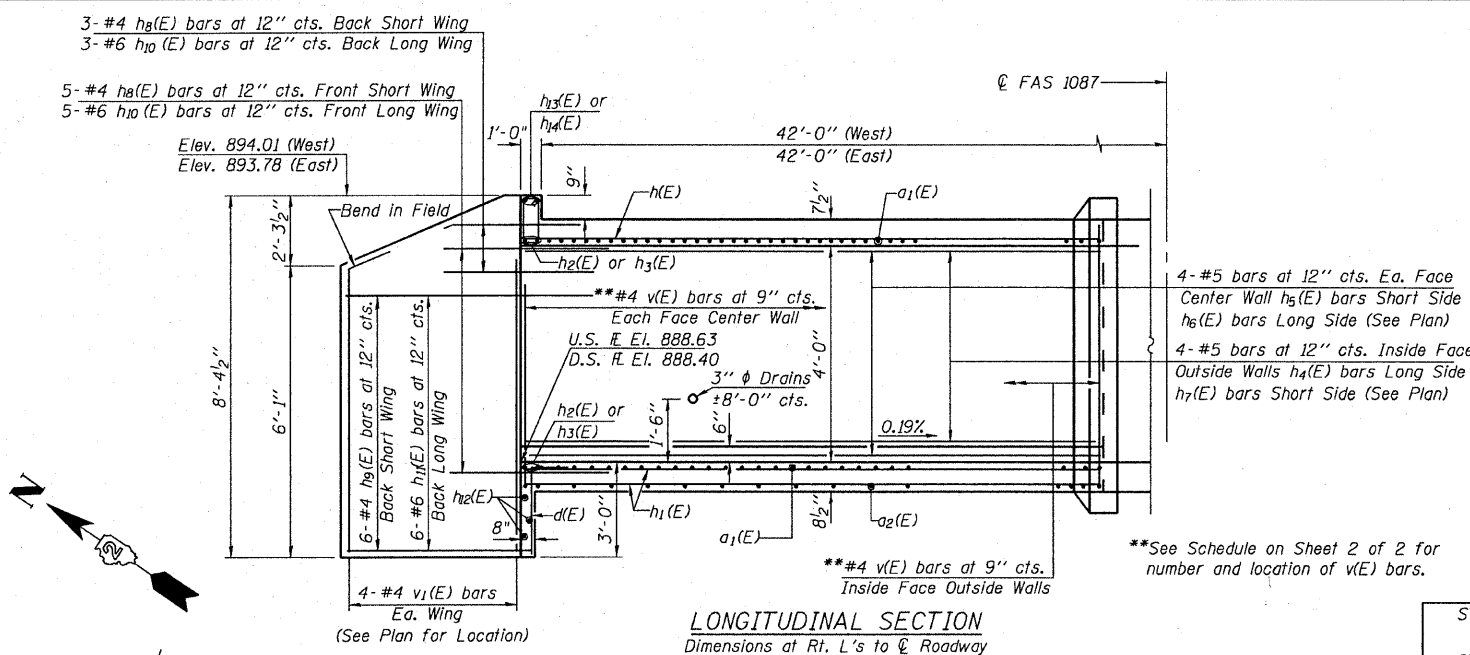
**RIGHT OF WAY AND EROSION CONTROL PLAN**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.S. RTE. 1087	SECTION 107T-1	COUNTY STEPHENSON	TOTAL SHEETS 47	SHEET NO. 15
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	SHEETS	POST	SHEET NO. 1
FAS 1087	"	STEPHENSON	47	16	2 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

\*107T-1 Contract No. 64C64



STATION 609+82.56  
 BUILT 20\_\_ BY  
 STATE OF ILLINOIS  
 FAS RTE. 1087 SEC. 107T-1  
 FA PROJECT  
 LOADING HS20  
 STRUCTURE NO. 089-1111

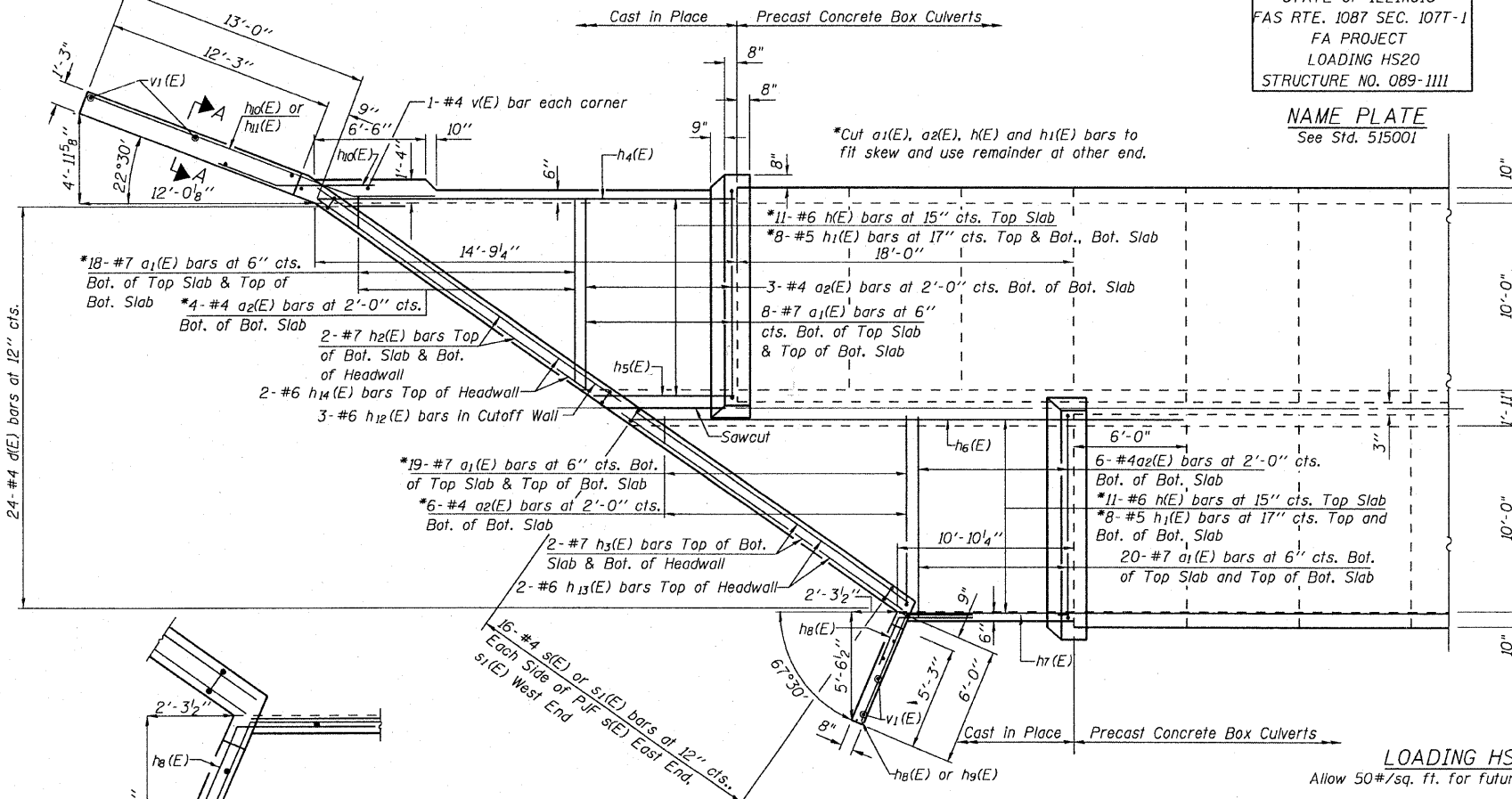
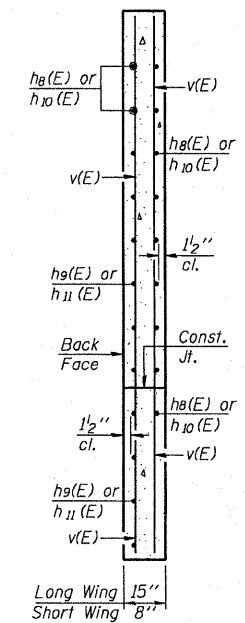
NAME PLATE  
 See Std. 515001

NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (Il. Modified).  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 259.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	186	#7	12'-4"	U
a2(E)	28	#4	10'-4"	—
d(E)	48	#4	4'-6"	L
h(E)	22	#6	24'-9"	—
h1(E)	32	#5	24'-9"	—
h2(E)	8	#7	16'-4"	—
h3(E)	8	#7	15'-10"	—
h4(E)	8	#5	14'-6"	—
h5(E)	8	#5	3'-11"	—
h6(E)	8	#5	20'-6"	—
h7(E)	8	#5	10'-2"	—
h8(E)	16	#4	8'-0"	—
h9(E)	12	#4	8'-11"	—
h10(E)	16	#6	8'-0"	—
h11(E)	12	#6	18'-0"	—
h12(E)	6	#6	32'-0"	—
h13(E)	4	#6	14'-8"	—
h14(E)	4	#6	16'-4"	—
s(E)	32	#4	4'-5"	U
s1(E)	32	#4	4'-5"	U
v(E)	144	#4	5'-0"	—
v1(E)	16	#4	7'-10"	—
x(E)	140	#4	5'-2"	L
x1(E)	24	#4	16'-3"	—
Concrete Box Culverts		Cu. Yd.	66.4	
Reinforcement Bars, Epoxy Coated		Pound	10,250	
Precast Concrete Box Culverts, 10' x 4'		Foot	192	
Name Plates		Each	1	
Porous Granular Embankment, Special		Cu. Yd.	64	
Rack Exc for Structures		Cu. Yd.	257	



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

DESIGN SPECIFICATIONS

2002 AASHTO

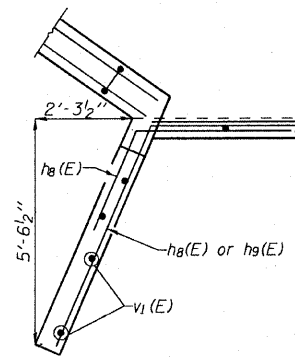
DESIGN STRESSES

FIELD UNITS PRECAST UNITS

f'c = 3,500 psi f'c = 5,000 psi  
 fy = 60,000 psi (Reinforcement) fy = 65,000 psi (Welded Wire Fabric)

Work this sheet with sheet 2 of 2.

PLAN  
 West End Treatment Shown  
 East End Treatment Similar  
 by Rotating 180°



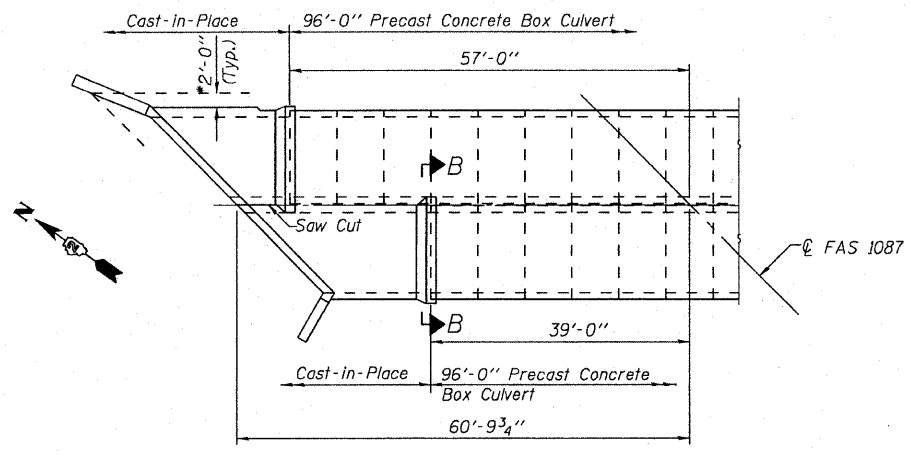
DETAIL A

PLOT DATE = 01/23/2008  
 PLOT SCALE = 1/8" = 1'-0"  
 PLOT SIZE = 11.5" x 17.0"  
 USER NAME = CFC

ILLINOIS DEPARTMENT OF TRANSPORTATION

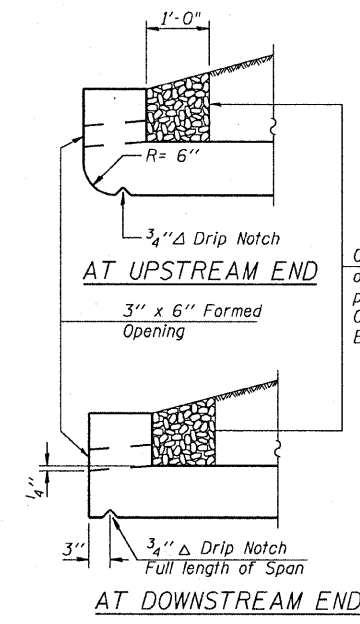
SHEET TITLE		CULVERT DETAILS	
PROJECT	FAS ROUTE 1087 (IL. ROUTE 73) SECTION 107T-1 STEPHENSON COUNTY STATION 609+82.56 STRUCTURE NUMBER 089-1111	PROJECT NO.	07075
SCALE	1/8" = 1'-0"	DATE	01/07/08
DRAWN BY	TFG	CHECKED BY	BD/KPS/MCB
DESIGNED BY	BD/KPS/MCB	DRAWING NO.	
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		1 OF 2 SHTS	



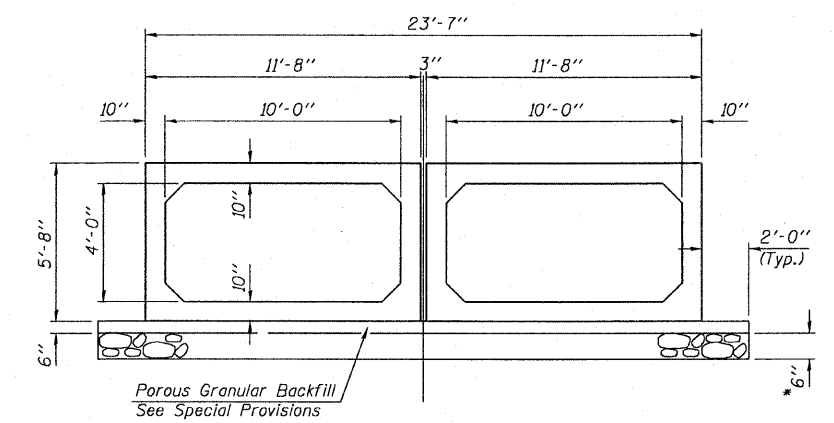


**PLAN**  
West End Shown  
East End Similar  
by Rotating 180°

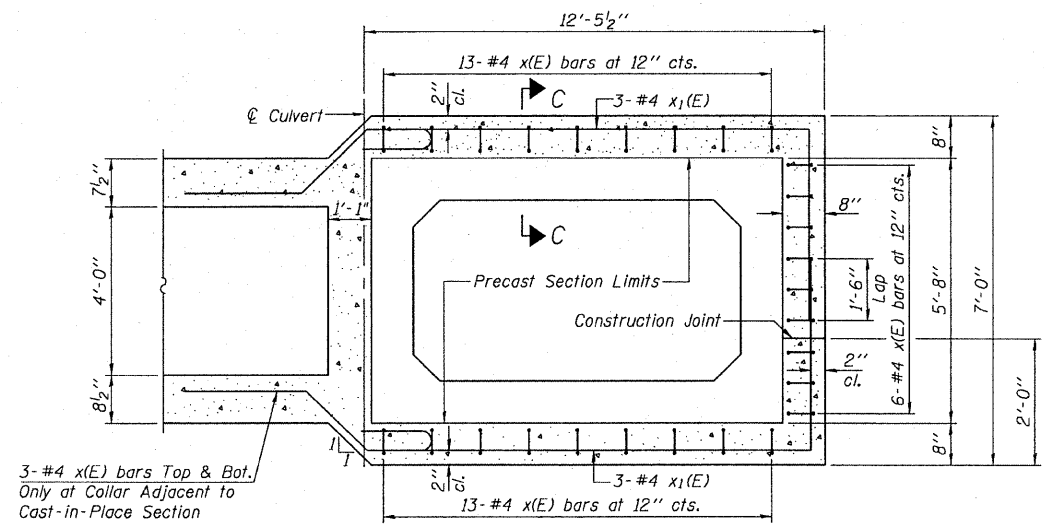
\*Limits of Rock Excavation for Structures  
and Porous Granular Embankment (Special)



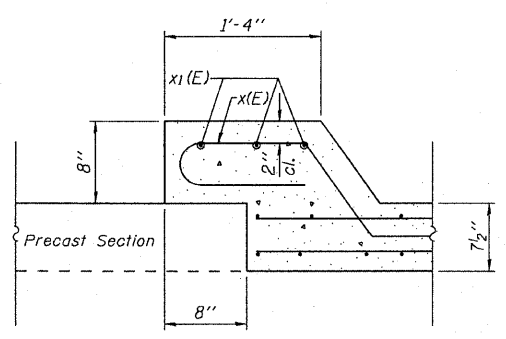
**DRAIN DETAIL**



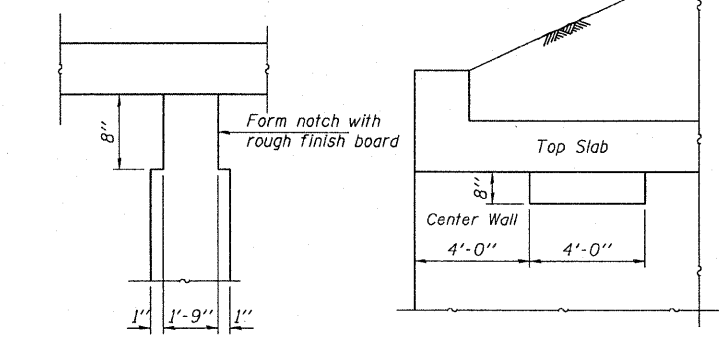
**SECTION THRU PRECAST BARREL**



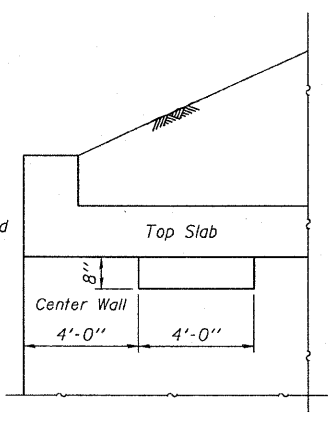
**SECTION B-B**  
Thru Cast-in-Place Collar



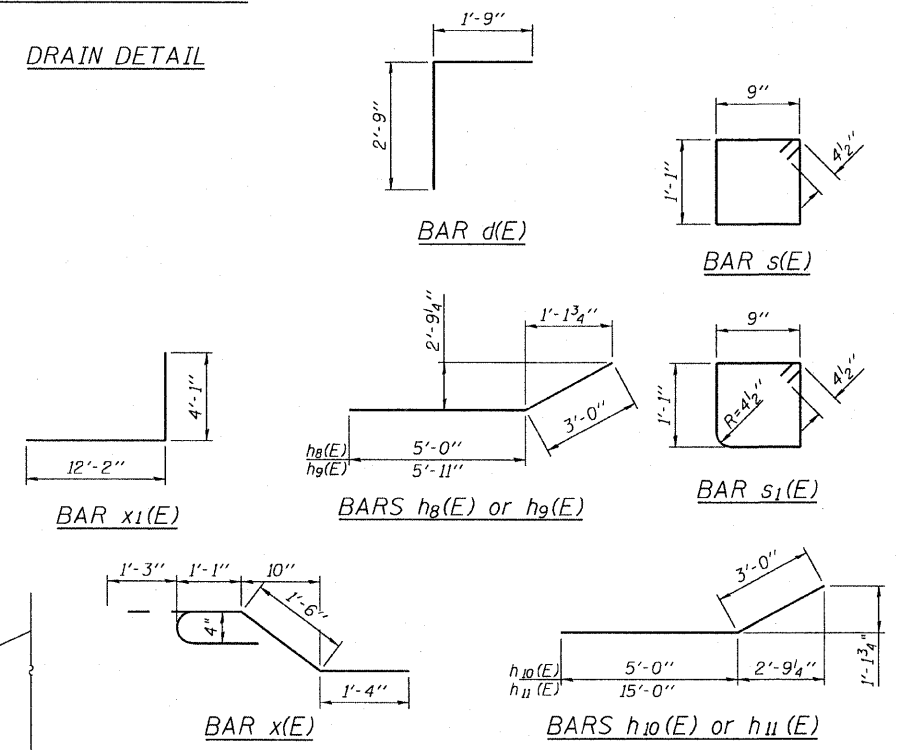
**SECTION C-C**



**CENTER NESTING LEDGE**  
(Center wall, downstream end only,  
4' long, 4' from the end.)



**DOWNSTREAM END**  
(Showing Phoebe Nesting Ledge)



**SCHEDULE OF V(E) BARS IN CULVERT WALLS**

EAST END OF CULVERT			
NORTH WALL	CENTER WALL	SOUTH WALL	
SOUTH FACE	NORTH FACE	SOUTH FACE	NORTH FACE
15-#4 v(E) at 9" cts.	28-#4 v(E) at 9" cts.	7-#4 v(E) at 9" cts.	20-#4 v(E) at 9" cts.

WEST END OF CULVERT			
NORTH WALL	CENTER WALL	SOUTH WALL	
SOUTH FACE	NORTH FACE	SOUTH FACE	NORTH FACE
20-#4 v(E) at 9" cts.	7-#4 v(E) at 9" cts.	28-#4 v(E) at 9" cts.	15-#4 v(E) at 9" cts.

**WATERWAY INFORMATION TABLE**

Drainage Area = 200.0 acres  
Existing Low Grade Elevation: 893.38 ft. @ STA. 607+76  
Proposed Low Grade Elevation: 893.38 ft. @ STA. 607+76

Flood	Frequency	Discharge	Headwater Elev. (ft.)	
	Year	cfs	Existing	Proposed
Ten-Year	10	294	893.72	892.35
Design	50	413	894.04	893.00
Base	100	469	894.16	893.00
OVT (E)	2	209	893.38	
OVT (P)	108	480		893.38

10-Year Velocity through Existing Culvert = 10.8 fps  
10-Year Velocity through Proposed Culvert = 4.3 fps

Work this Sheet with Sheet 1 of 2.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: **CULVERT DETAILS**

PROJECT: FAS ROUTE 1087 (IL. ROUTE 73) SECTION 1077-1 STEPHENSON COUNTY STATION 609+82.56 STRUCTURE NUMBER 089-1111	PROJECT NO. 07075 DATE 01/07/08 DRAWN BY TFG CHECKED BY BD/KPS/MCB DRAWING NO.
---	--

**COOMBE-BLOXDORF P.C.**  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

2  
OF 2 SHTS

PLOT DATE = 01/23/2008  
FILE NAME = \\sbs\cuser\1821136\mcb2.dgn  
PLOT SCALE = 0.25000 1" = 10'  
USER NAME = CTC

BORING EL 100.00 = PLAN DATUM EL 895.14

BORING B-1

**Illinois Department of Transportation**  
Division of Highways  
**SOIL BORING LOG**

Page 1 of 1  
Date 7/28/06

ROUTE FAP 654 DESCRIPTION P92-113-05 Culvert on IL 73 .5 m. N. of US 20 LOGGED BY W. Garza  
SECTION 107 T-1 LOCATION SEC. TWP. RNG.  
COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. \_\_\_\_\_  
Station 607+87.5

BORING NO. B-2  
Station 607+54  
Offset 11.00ft Rt. CL East Side  
Ground Surface Elev. 99.7 ft

DEPTH (ft)	BULGE (ft)	SHEAR (tsf)	Penetration (ft)	Blow Count (N)	Soil Description	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
0					Asphalt						
0				6	MEDIUM tan fine SAND						
97.20	2			26	STIFF dark gray SILTY CLAY LOAM						
95.70	3	1.3	P								
93.20	1			35	MEDIUM gray SILTY CLAY						
	2	0.5	B								
90.70	4			20	LOOSE gray SANDY LOAM						
	2										
	3										
88.20	2			21	MEDIUM gray LOAM						
	2	0.6	B								
85.20	1			23	MEDIUM gray SILTY CLAY						
	1	0.8	B								
	2										
83.20	1			17	MEDIUM light gray weathered LIMESTONE						
	6										
	17										
80.70	100/9				VERY DENSE light gray weathered LIMESTONE						
					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. 8-99)

BORING B-2

**Illinois Department of Transportation**  
Division of Highways  
**SOIL BORING LOG**

Page 1 of 1  
Date 7/28/06

ROUTE FAP 654 DESCRIPTION P92-113-05 Culvert on IL 73 .5 m. N. of US 20 LOGGED BY W. Garza  
SECTION 107 T-1 LOCATION SEC. TWP. RNG.  
COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 089-1031  
Station 607+87.5

BORING NO. B-1  
Station 608+18  
Offset 10.00ft Lt. CL West Side  
Ground Surface Elev. 99.8 ft

DEPTH (ft)	BULGE (ft)	SHEAR (tsf)	Penetration (ft)	Blow Count (N)	Soil Description	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
0					Asphalt						
0				18	MEDIUM dark gray SILTY CLAY LOAM						
97.30	2			33	MEDIUM black SILTY LOAM						
95.80	3	0.8	B								
	5										
93.30	1			52	MEDIUM black SILTY LOAM						
	1	0.5	B								
	1										
90.30	6			15	MEDIUM light gray SANDY LOAM with LIMESTONE fragments						
	7										
	14										
88.30	8				DENSE light gray weathered LIMESTONE						
	14										
	27				Auger Refusal						
					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. 8-99)

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	PLOT DATE = 01/21/2008	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BORING LOGS**


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

**COOMBE-BLOXDORF P.C.**  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	18
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C64	

BORING EL 100.00 = PLAN DATUM EL 895.14

BORING B-3



**Illinois Department of Transportation**  
Division of Highways  
1007

**SOIL BORING LOG**

Page 1 of 1  
Date 11/22/06

ROUTE FAP 654 DESCRIPTION P92-113-06 IL 73 box culvert, .2 m. N. of W. Goddard Road LOGGED BY W. Garza


SECTION 107 T-1 LOCATION Kent Twp. - 4 SW, SEC. , TWP. 27N, RNG. 6E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station	DEPTH ft	BLOW S	UCS (tsf)	MOIST (%)	Surface Water Elev.	
					ft	ft
BORING NO. <u>B-2</u> Station <u>609+02</u> Offset <u>32.00ft Rt CL</u> Ground Surface Elev. <u>96.7</u>					Stream Bed Elev. <u>96.7</u>	Groundwater Elev.: First Encounter <u>89.7</u> Upon Completion <u>ft</u> After <u>Hrs.</u>
SOFT dark brown SILTY LOAM			0.4 P	35		
MEDIUM dark gray LOAM	94.70	1 3 4	0.7 B	32		
VERY DENSE tan weathered LIMESTONE	92.70	32 25 32				
VERY DENSE tan weathered LIMESTONE	90.70	100/11				
End of Boring	88.20					

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)

BORING B-4



**Illinois Department of Transportation**  
Division of Highways  
1007

**SOIL BORING LOG**

Page 1 of 1  
Date 11/22/06

ROUTE FAP 654 DESCRIPTION P92-113-06 IL 73 box culvert, .2 m. N. of W. Goddard Road LOGGED BY W. Garza

SECTION 107 T-1 LOCATION Kent Twp. - 4 SW, SEC. , TWP. 27N, RNG. 6E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station	DEPTH ft	BLOW S	UCS (tsf)	MOIST (%)	Surface Water Elev.	
					ft	ft
BORING NO. <u>B-1</u> Station <u>609+61</u> Offset <u>12.00ft Lt CL</u> Ground Surface Elev. <u>99.7</u>					Stream Bed Elev. <u>94.5</u>	Groundwater Elev.: First Encounter <u>90.2</u> Upon Completion <u>ft</u> After <u>Hrs.</u>
STIFF brown SILTY CLAY LOAM			1.1 P	19		
MEDIUM gray SILTY LOAM	97.70	3 3 3	0.6 B	24		
MEDIUM black SILTY LOAM	96.20	2 3 4	0.9 B	33		
DENSE tan weathered LIMESTONE	93.20	2 9 27				
VERY DENSE tan weathered LIMESTONE	91.20	16 100/7				
End of Boring	88.70					

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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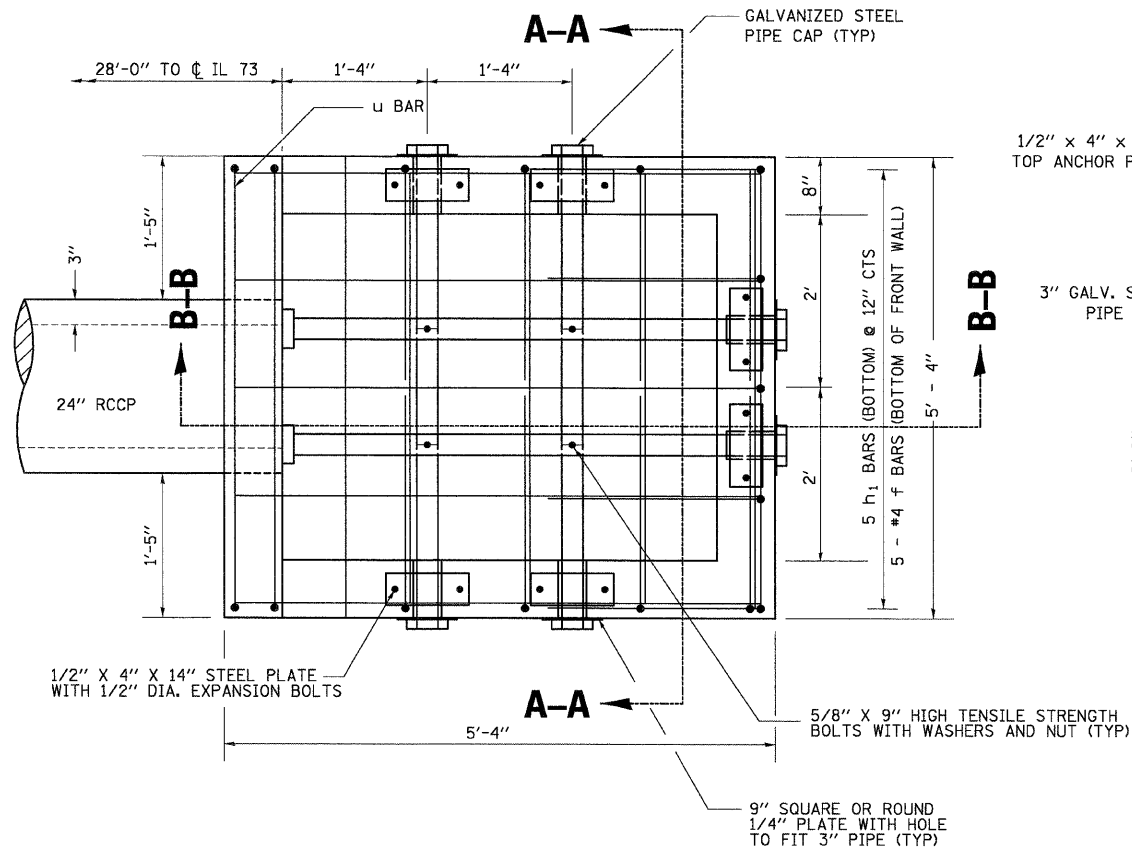
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		DRAWN -	REVISED -					
		CHECKED -	REVISED -					
		DATE -	REVISED -					

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C64	

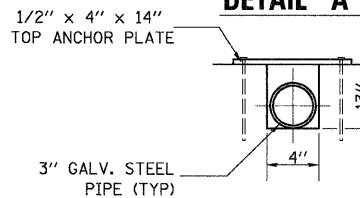
# DROP BOX NO. 1

LT STA. 600 + 69.49

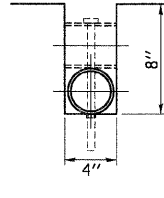
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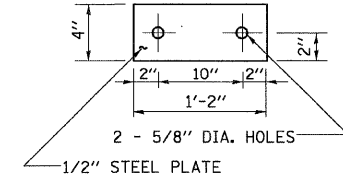
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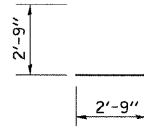
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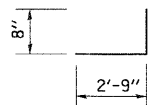
### TOP ANCHOR PLATE



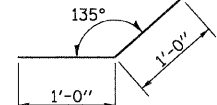
### BAR d



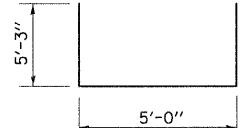
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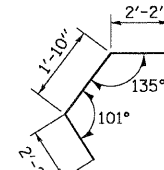
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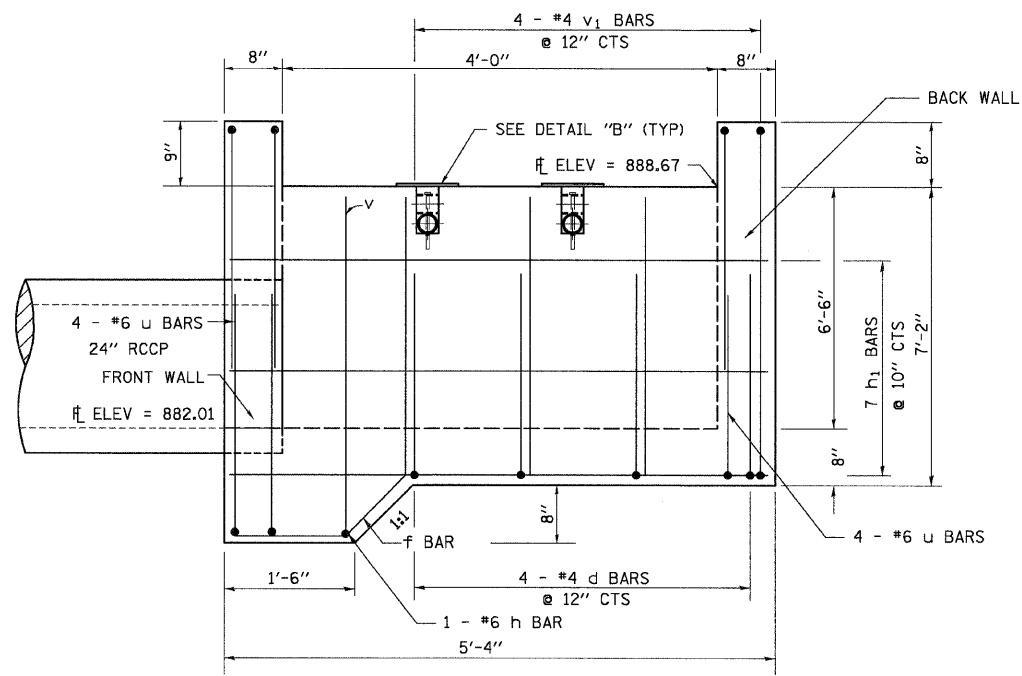
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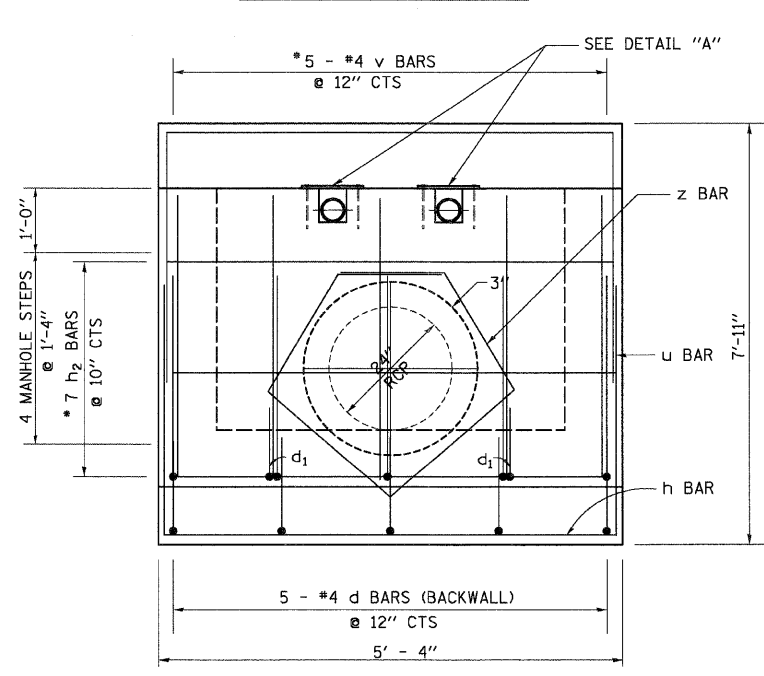
### BAR z



## SECTION B-B



## SECTION A-A



### BILL OF MATERIALS (FOR REINFORCEMENT)

BAR	SIZE	NO.	LENGTH	WEIGHT (LB)
d	4	13	5'-6"	47.76
d <sub>1</sub>	4	2	3'-5"	4.56
f	4	5	2'-0"	6.68
h	6	1	5'-0"	7.51
h <sub>1</sub>	4	19	5'-0"	63.46
h <sub>2</sub>	4	14	5'-0"	46.76
u	6	8	15'-6"	186.23
v	4	12	7'-6"	60.12
v <sub>1</sub>	4	8	6'-9"	36.07
z	4	2	6'-2"	8.24
DESCRIPTION	UNIT	QTY		
CLASS "SI" CONCRETE	CU YD	4.02		
REINFORCEMENT BARS	LB	467.39		

### BILL OF MATERIALS (FOR GRATED DROP BOX)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	4 @ 5'-4"
3" GALV PIPE CAPS	EACH	8
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	6
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	6
5/8" x 9" GALV. STEEL BOLTS	EACH	4
EXPANSION BOLTS 1/2"	EACH	12
MANHOLE STEPS	EACH	4
PIPE HANDRAIL	FOOT	17

### GENERAL NOTES

THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTION OF 503, 508, 509, 542 OF THE STANDARD SPECIFICATIONS.

CLASS "S1" CONCRETE SHALL BE USED. EXPOSED EDGES SHALL BE BEVELED 3/4".

THE CONTRACT UNIT PRICE "EACH" FOR DROP BOX NO. 1 SHALL INCLUDE THE EXPANSION BOLTS, GALVANIZED PIPE, CLASS "S1" CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, STEEL PLATES, MANHOLE STEPS, EARTH EXCAVATION WHERE REQUIRED, AND NECESSARY GRADING TO FIT THE INLET AS SHOWN IN THE CROSS SECTIONS OR TO THE SLOPE.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR 60 (IL MODIFIED).

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

MANHOLE STEPS SHALL CONFORM TO ARTICLE 602.08 OF THE STANDARD SPECIFICATIONS AND STANDARD 602701.

CONTRACTOR SHALL FIELD VERIFY PIPE DIMENSIONS PRIOR TO ORDERING.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 710.11 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

SEE SHEET 21 FOR HANDRAIL DETAILS.

**COOMBE-BLOXDORF P.C.**  
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FILE NAME = ...\\071\07075\vb8-na\z11306culv3.dgn	USER NAME = CFC-na	DESIGNED -	REVISED -
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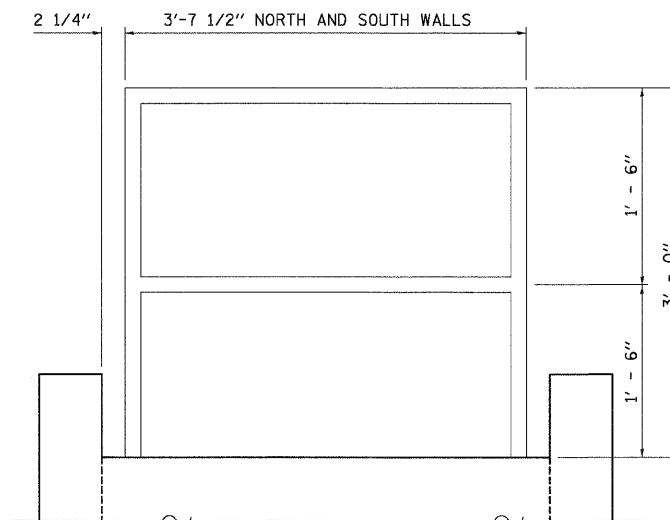
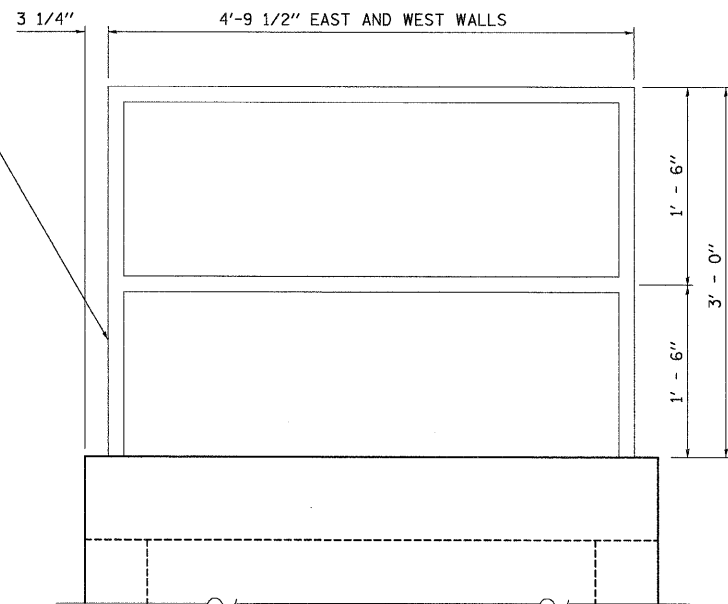
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DROP BOX NO 1

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	20
CONTRACT NO. 64C64			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

1 1/2" DIA. STEEL HANDRAIL  
(STYLE & MANUFACTURER  
TO BE DETERMINED  
BY ENGINEER & CONTRACTOR)



**GENERAL NOTES:**

ALL HANDRAIL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO FABRICATION OF PIPE HANDRAIL, BASED UPON FINAL LOCATION OF MOUNTING BOLTS.

HANDRAIL SHALL CONFORM TO SECTION 509 WITH THE EXCEPTION THAT ALL PIPE AND CONNECTIONS SHALL BE WELDED GALVANIZED OR ALUMINUM ACCORDING TO ARTICLE 1006.27, 1006.30, OR 1006.34.

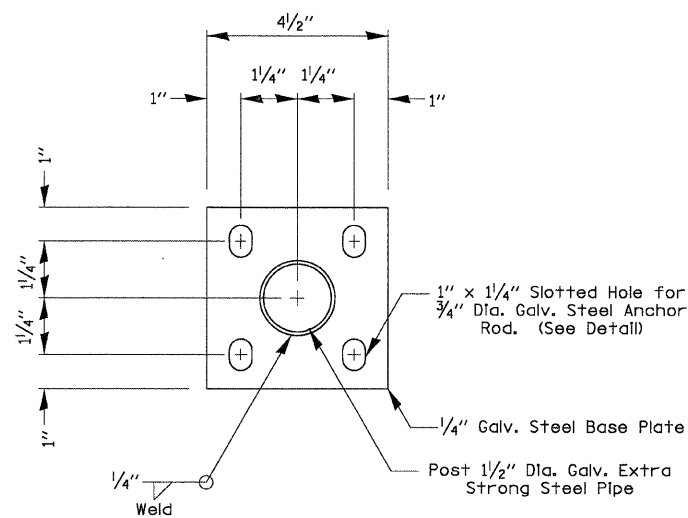
THE DIAMETER OF THE GRIPPING SURFACE OF THE HANDRAIL SHALL BE 1-1/4" TO 1-1/2"

ENDS OF HANDRAIL SHALL BE ROUNDED.

HAND & SAFETY RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

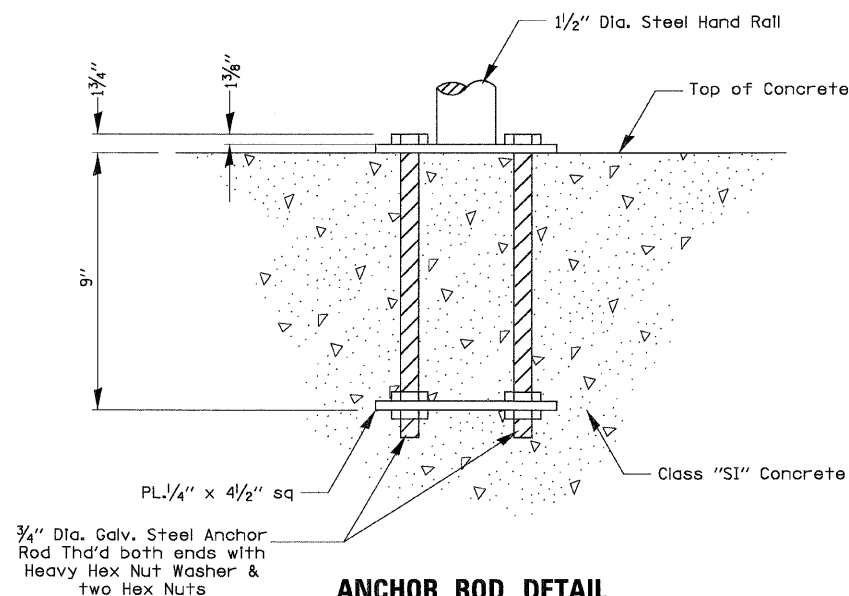
GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.

THE CONTRACT UNIT PRICE "FOOT" FOR PIPE HANDRAIL SHALL INCLUDE THE PIPE, ANCHOR RODS, ANCHOR BOLTS, BOLTS, NUTS, WASHERS, AND STEEL BASE PLATES.



**POST BASE PLATE DETAIL**

(Included In the cost of Handrail)



**ANCHOR ROD DETAIL**

(Included In the cost of Handrail)

COOMBE-BLOXDORF P.C.  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

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	PLOT DATE = 01/21/2008	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIPE HANDRAIL DETAILS

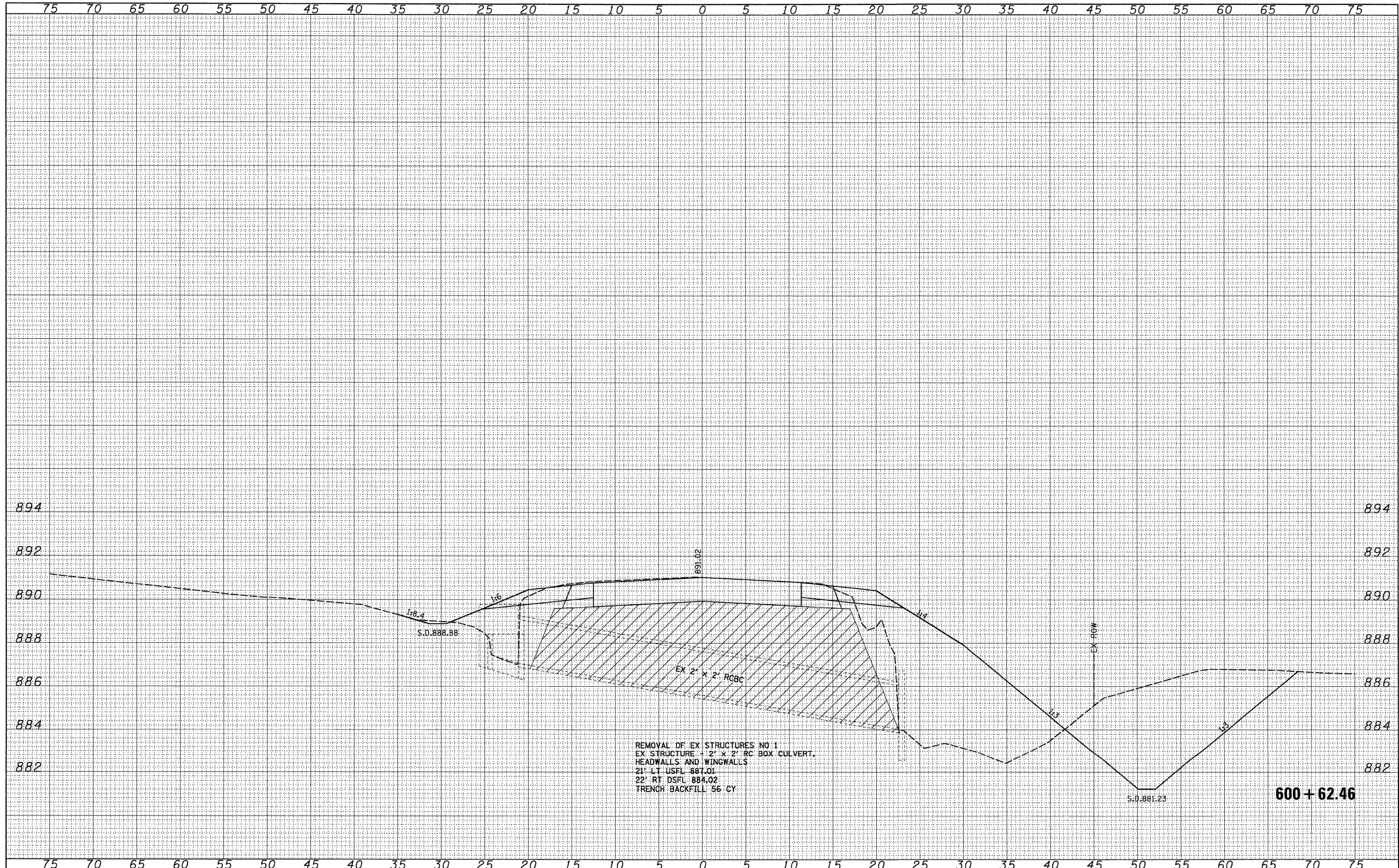
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	21
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C64	



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

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



REMOVAL OF EX STRUCTURES NO 1  
 EX STRUCTURE - 2' X 2' RC BOX CULVERT,  
 HEADWALLS AND WINGWALLS  
 21' LT DSFL 887.01  
 22' RT DSFL 884.02  
 TRENCH BACKFILL 56 CY

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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

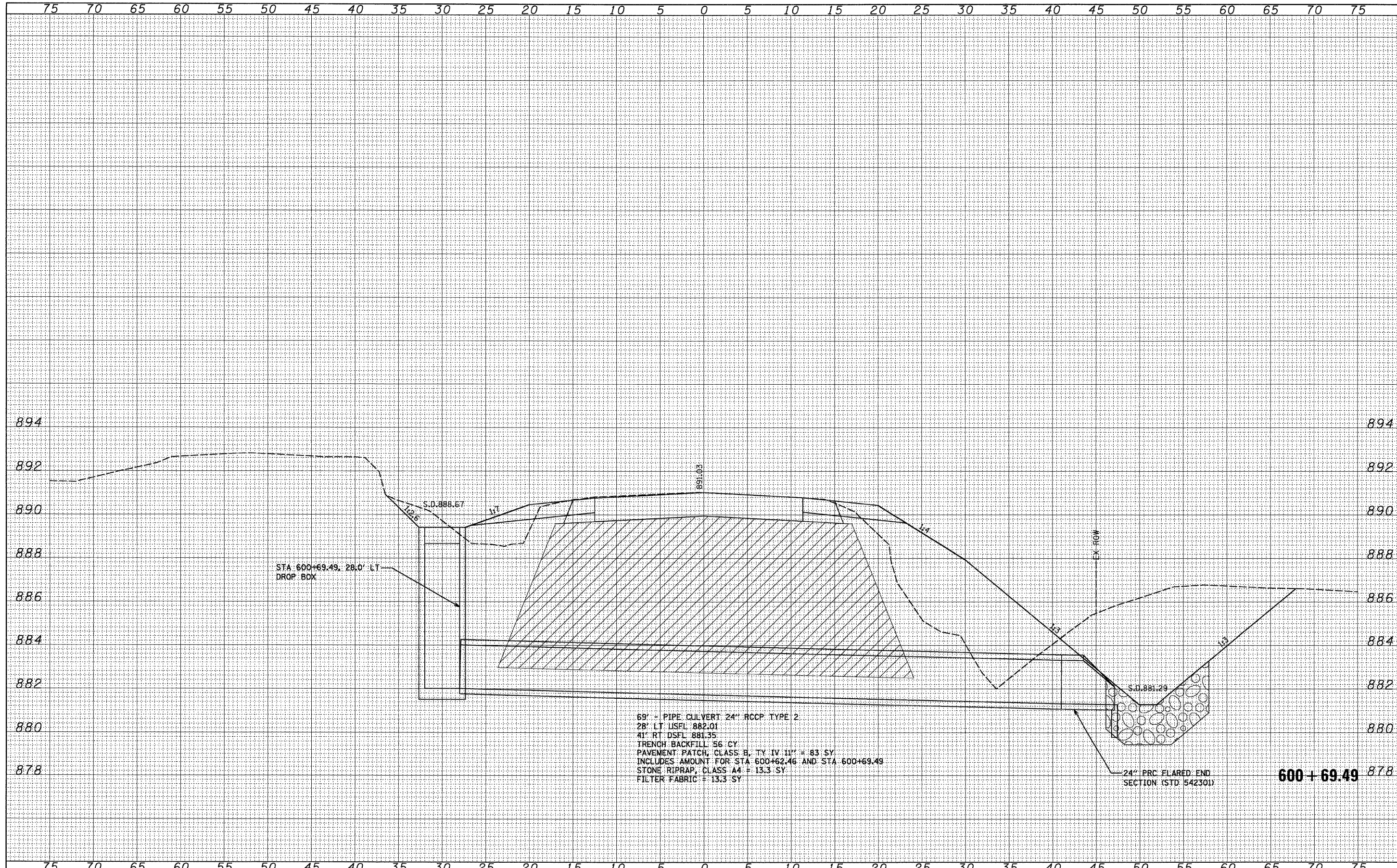
**CULVERT PROFILES**  
 SCALE: SHEET NO. 1 OF 6 SHEETS STA. 600+62.46 TO STA. 600+62.46

F.A.S. RTE. 1087	SECTION 107T-1	COUNTY STEPHENSON	TOTAL SHEETS 47	SHEET NO. 22
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C64	



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

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



69' - PIPE CULVERT 24" RCCP TYPE 2  
 28' LT USEFL 882.01  
 41' RT DSFL 881.35  
 TRENCH BACKFILL 56 CY  
 PAVEMENT PATCH, CLASS B, TY IV 11" = 83 SY  
 INCLUDES AMOUNT FOR STA 600+62.46 AND STA 600+69.49  
 STONE RIPRAP, CLASS A4 = 13.3 SY  
 FILTER FABRIC = 13.3 SY

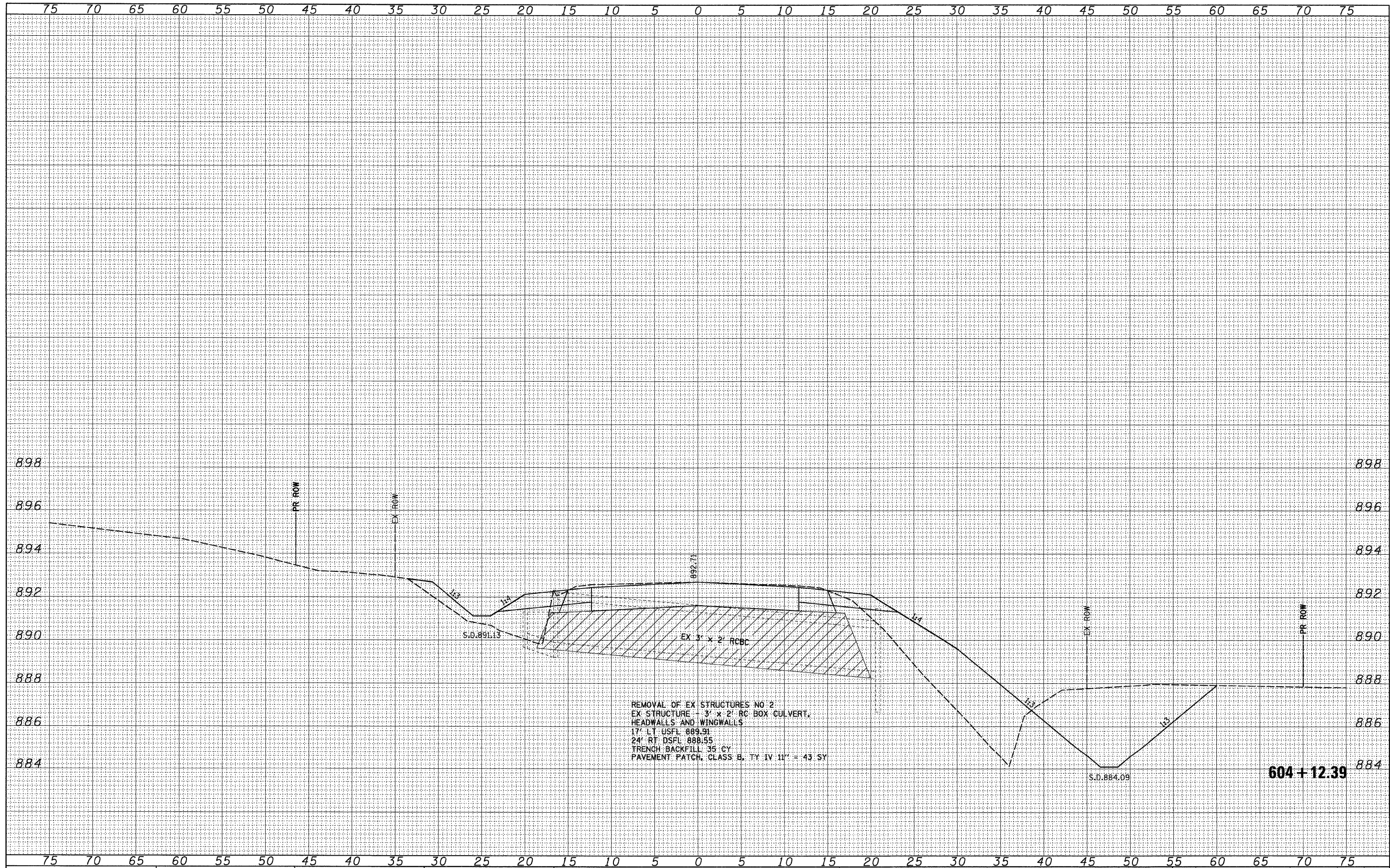
24" PRC FLARED END SECTION (STD 542301) **600 + 69.49**

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PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. 2 OF 6 SHEETS	STA. 600+69.49 TO STA. 600+69.49	CONTRACT NO. 64C64				
PLOT DATE = 01/21/2008	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									



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

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



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 PLOT DATE = 01/21/2008

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

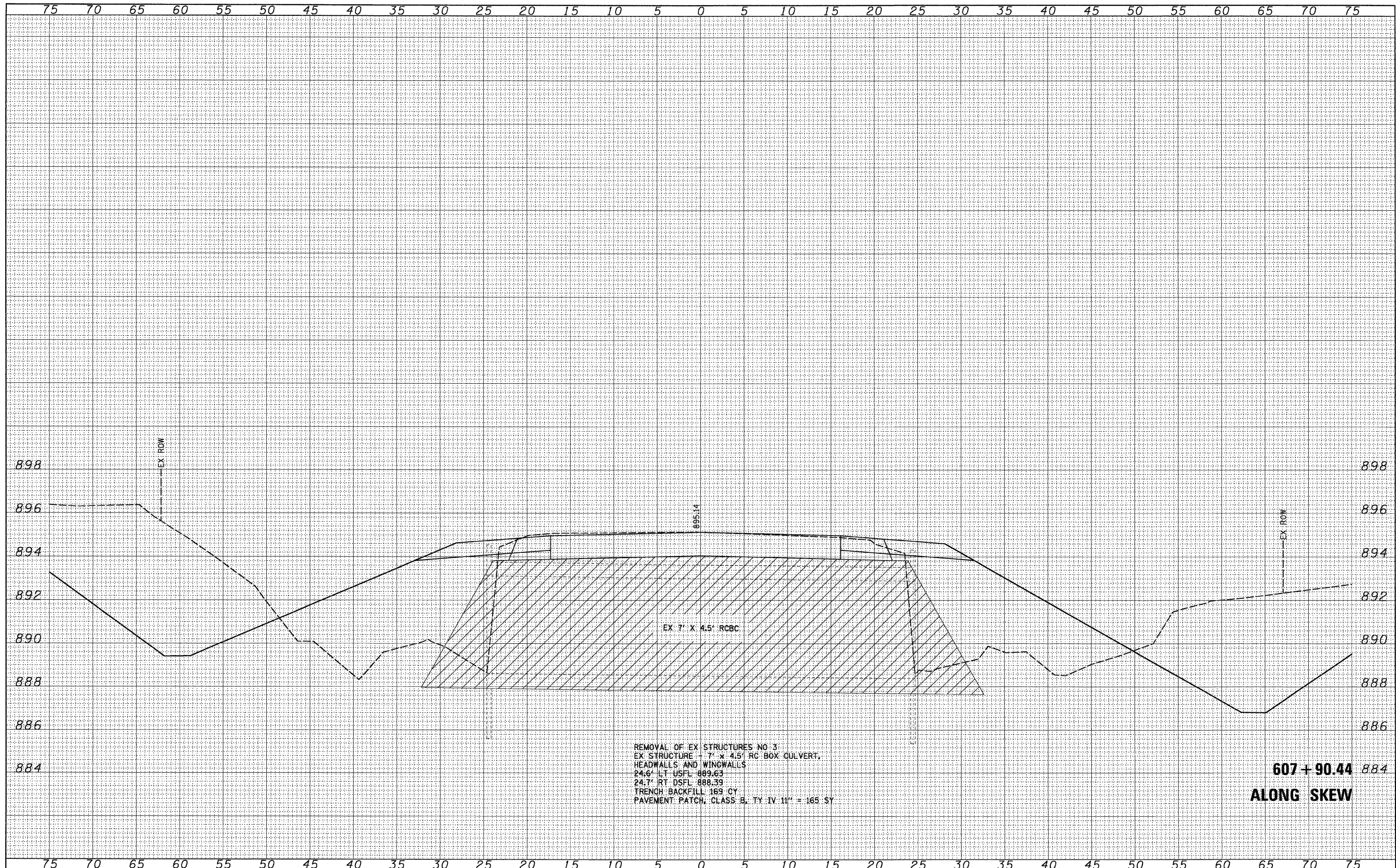
SCALE: SHEET NO. 3 OF 6 SHEETS STA. 604+12.39 TO STA. 604+12.39

CULVERT PROFILES		F.A.S. RTE. 1087	SECTION 107T-1	COUNTY STEPHENSON	TOTAL SHEETS 47	SHEET NO. 24
		CONTRACT NO. 64C64				
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

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



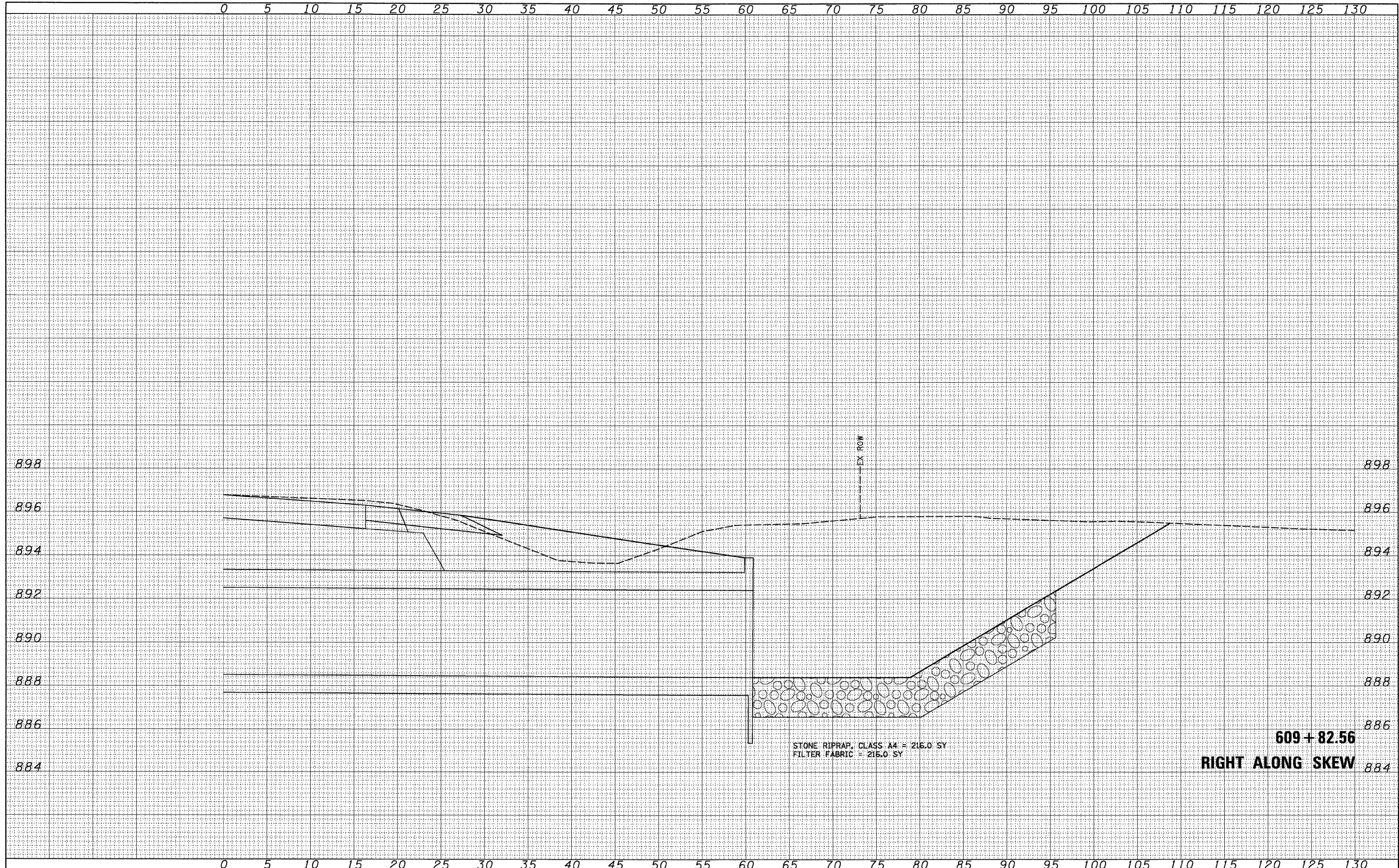
**607 + 90.44**  
**ALONG SKEW**

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CULVERT PROFILES</b>		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...\\07\07075\v8-na\z11306culv4.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 4 OF 6 SHEETS	STA. 607+90.44 TO STA. 607+90.44	1087	107T-1	STEPHENSON	47	25
		CHECKED -	REVISED -					CONTRACT NO. 64C64				
		DATE -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							



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

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



STONE RIPRAP, CLASS A4 = 216.0 SY  
 FILTER FABRIC = 216.0 SY

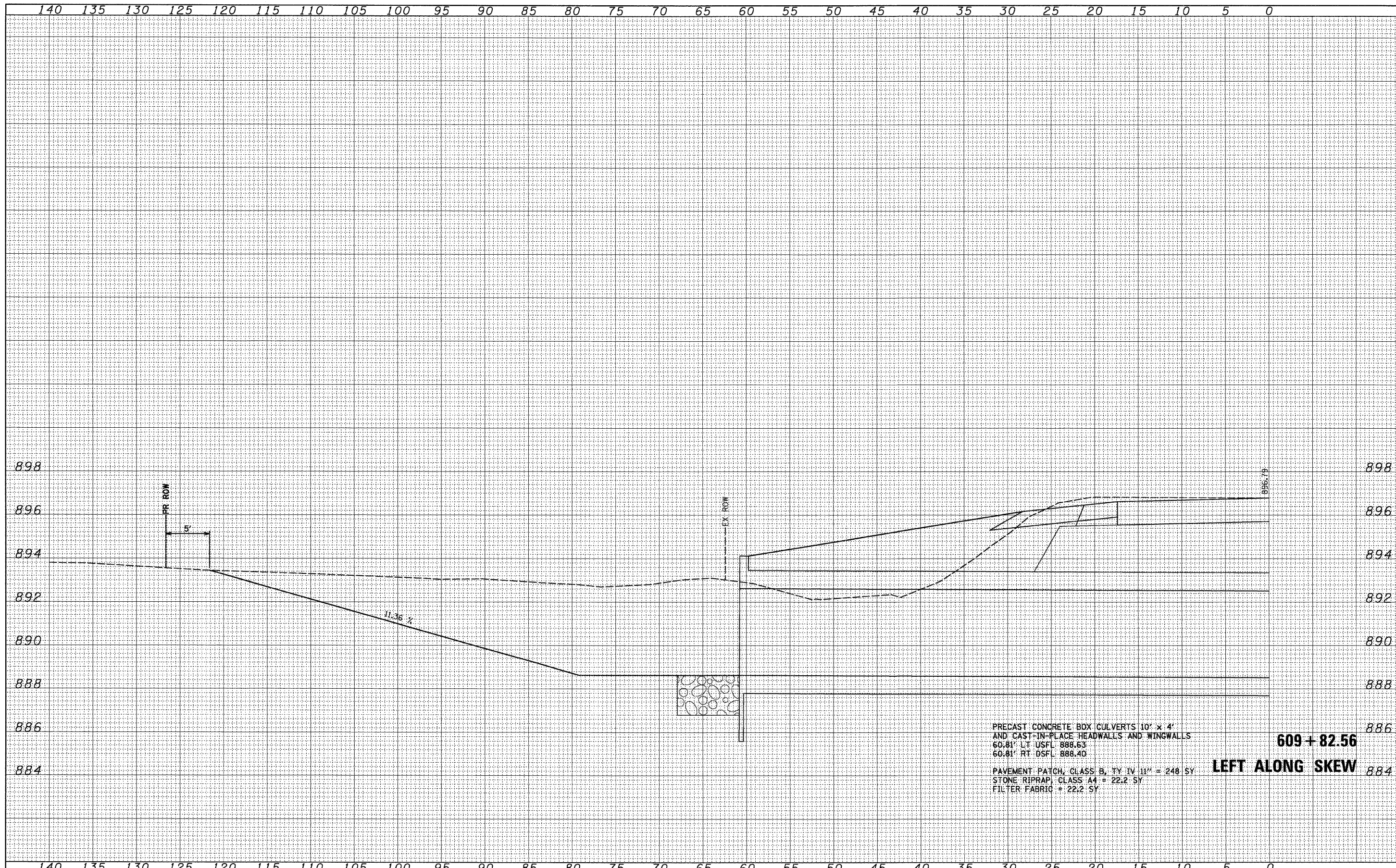
**609 + 82.56**  
**RIGHT ALONG SKEW**

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CULVERT PROFILES</b>		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\07\07075\v8-na\z11306culv4.dgn	CFC-na	DRAWN -	REVISED -		1087	107T-1	STEPHENSON	47	26		
PLOT SCALE = 5.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 64C64						
PLOT DATE = 01/21/2008		DATE -	REVISED -		SCALE: SHEET NO. 5 OF 6 SHEETS STA. 609+82.56 TO STA. 609+82.56			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



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

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



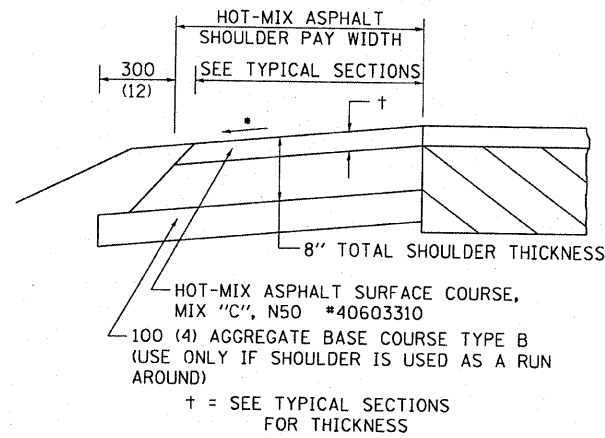
PRECAST CONCRETE BOX CULVERTS 10' x 4'  
 AND CAST-IN-PLACE HEADWALLS AND WINGWALLS  
 60.81' LT USFL 888.63  
 60.81' RT DSFL 888.40

PAVEMENT PATCH, CLASS B, TY IV 11" = 248 SY  
 STONE RIPRAP, CLASS A4 = 22.2 SY  
 FILTER FABRIC = 22.2 SY

**609 + 82.56**  
**LEFT ALONG SKEW**

FILE NAME =	USER NAME = CFC-ns	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CULVERT PROFILES</b>	SCALE:	SHEET NO. 6 OF 6 SHEETS	STA. 609+82.56 TO STA. 609+82.56	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\07\07075\v8-ns\z11306culv4.dgn		DRAWN -	REVISED -			1087	10TT-1	STEPHENSON	47	27			
PLOT SCALE = 5.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64C64							
PLOT DATE = 01/21/2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

# HOT-MIX ASPHALT SHOULDER



### GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*40603310.

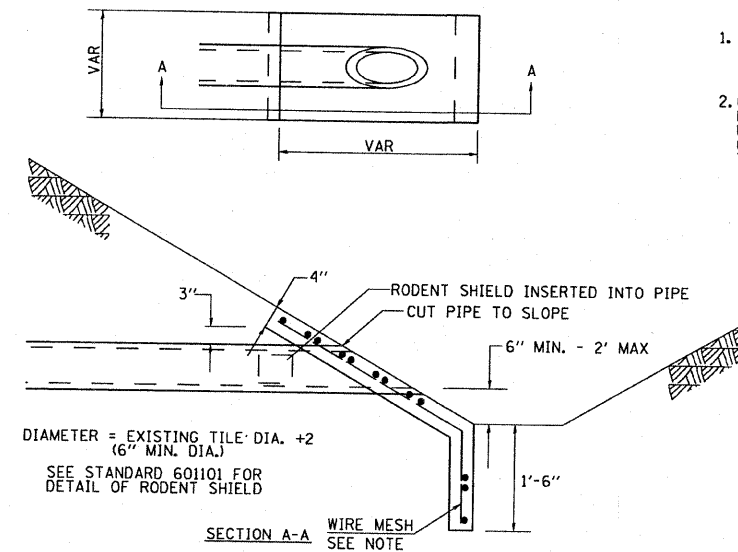
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

\* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

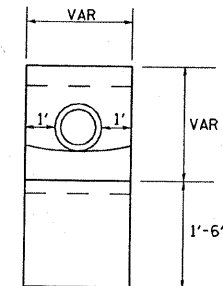
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 11-01-07

# SLOPE WALL FOR FIELD TILE OUTLETS



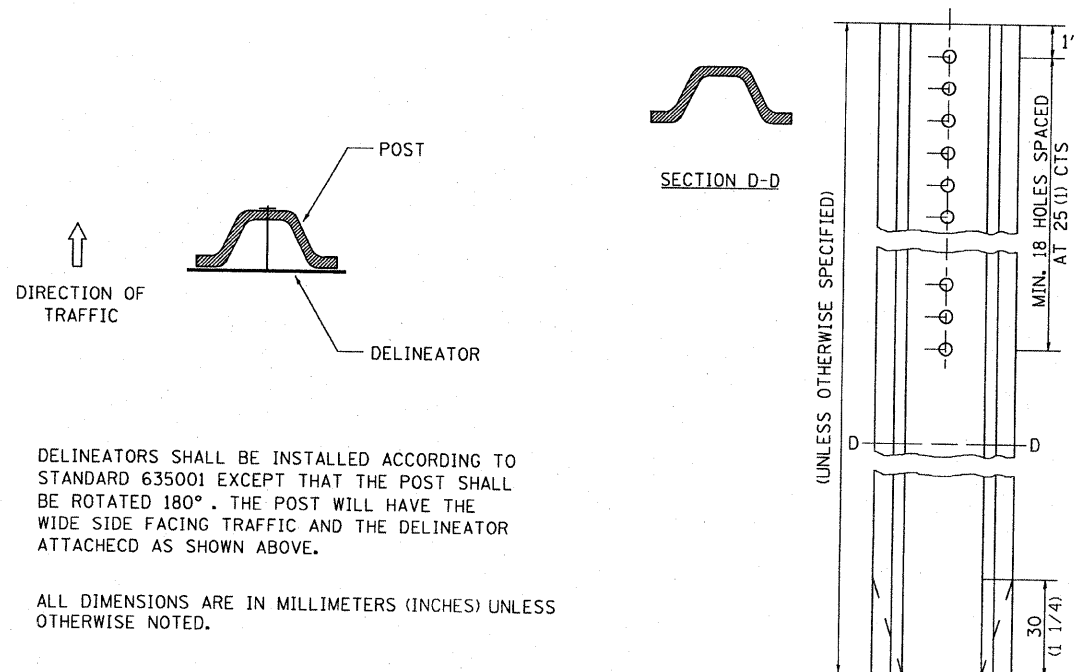
- NOTES**
1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
  2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.



REVISED - 1-24-07

## HOT-MIX ASPHALT SHOULDER 23.4a

# DELINEATOR AND POST ORIENTATION



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.

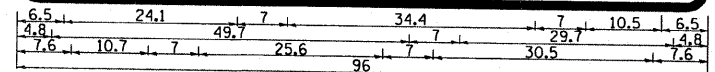
REVISED - 11-01-07

## DELINEATOR AND POST ORIENTATION 37.4

## SLOPE WALL FOR FIELD TILE OUTLETS 28.4

# ROAD CLOSED TO OVERSIZED LOADS

ROAD CLOSED TO  
OVERSIZED LOADS  
XX MILES AHEAD



Permit Loads - Loads Over 13 Feet; 3.0" Radius; 1.3" Border; Black on Orange; ROAD CLOSED TO D; OVERSIZED LOADS; D; XX MILES AHEAD; D; Table of letter and object lefts.

R	O	A	D	C	L	O	S	E	D	T	O		
6.5	12.5	18.7	25.9	37.8	43.0	49.2	55.4	61.8	67.3	70.0	84.8		
O	V	B	R	S	I	Z	E	D	L	O	A	D	S
4.8	11.0	17.2	23.1	29.9	36.5	38.3	44.3	49.8	61.6	67.1	73.3	80.6	86.6
X	X	M	I	L	E	S	A	H	E	A	D		
7.8	13.6	25.3	32.3	35.1	40.6	46.2	67.9	65.1	71.4	76.8	83.7		

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

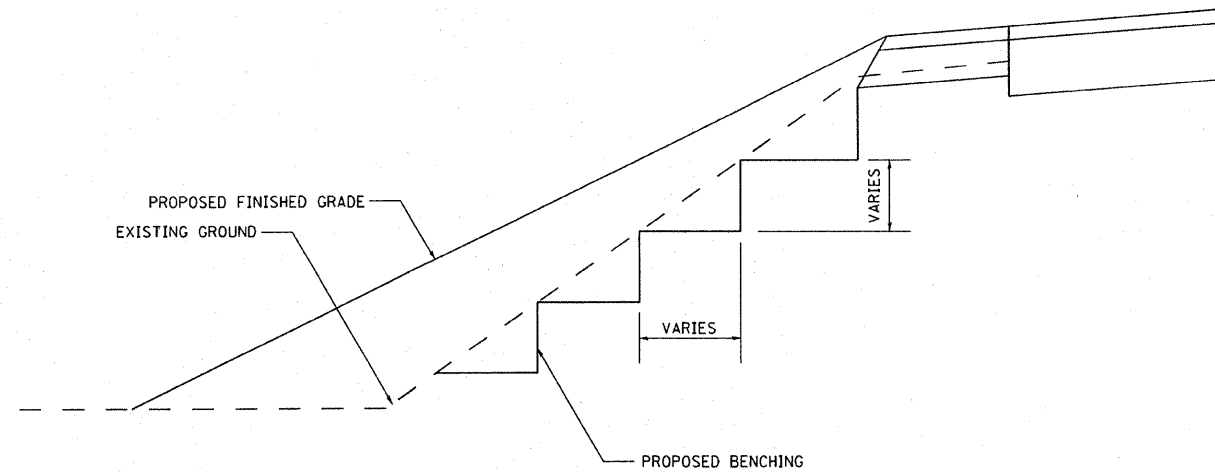
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-9-08	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
REVISED -		1087	1077-1	STEPHENSON	47	28	
REVISED -		SCALE: 2,0000 / IN.	SHEET NO. 1 OF 8 SHEETS		STA.	TO STA.	
REVISED -		CONTRACT NO. 64C64		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

## ROAD CLOSED TO OVERSIZED LOADS 40.4



# TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

## TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4 LETTERING FOR NAME PLATE

STATION  
BUILT 200 BY  
STATE OF ILLINOIS  
RTE. SEC.  
FA PROJECT  
LOADING HS 20  
STR. NO.

DESIGNERS NOTE

SEE STD. 515001

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.

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

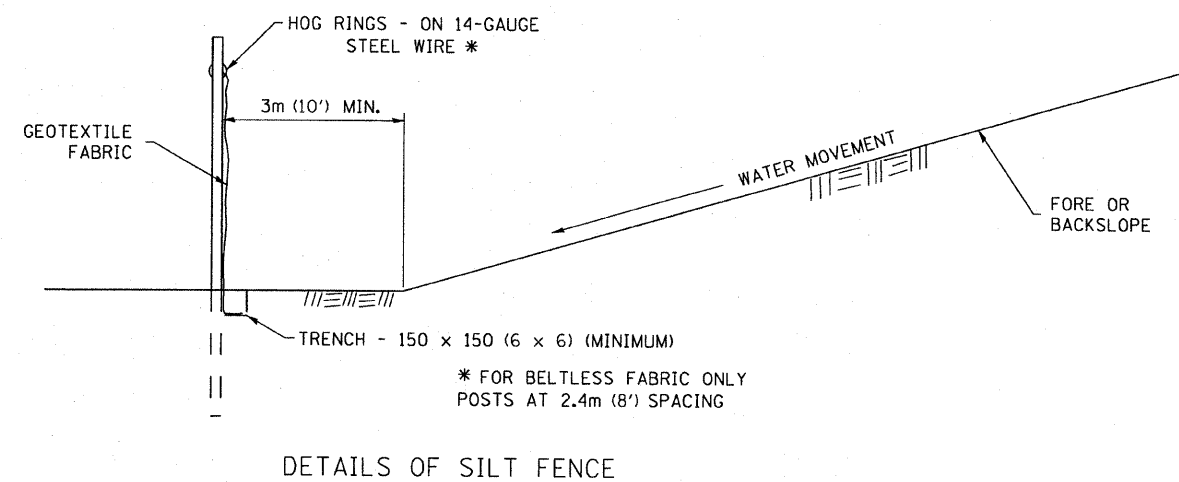
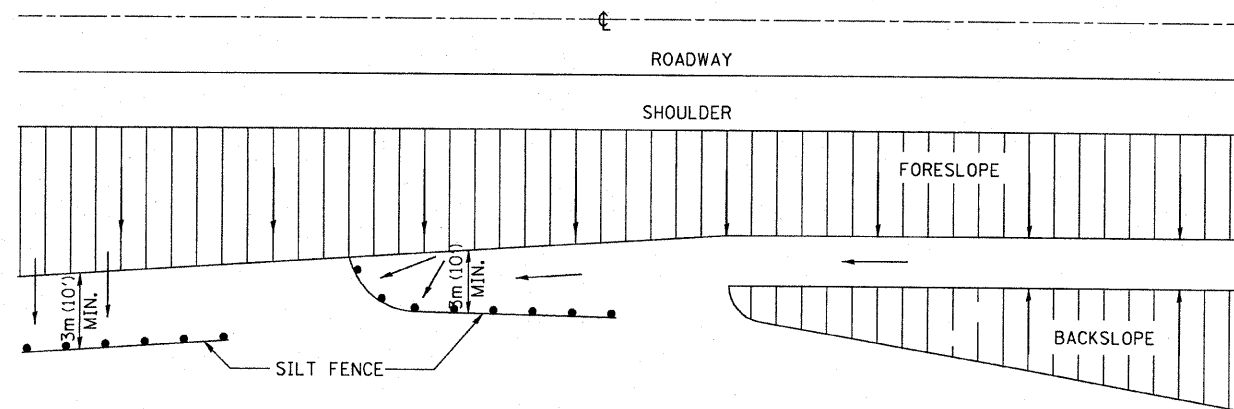
REVISED - 11-01-07

STATION	STRUCTURE NO.
600+69.49	089-1121
609+82.56	089-1111

REVISED -	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		1087	107T-1	STEPHENSON	47	29
REVISED -		CONTRACT NO. 64C64				
REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 2,000' = 1" SHEET NO. 2 OF 8 SHEETS STA. TO STA.

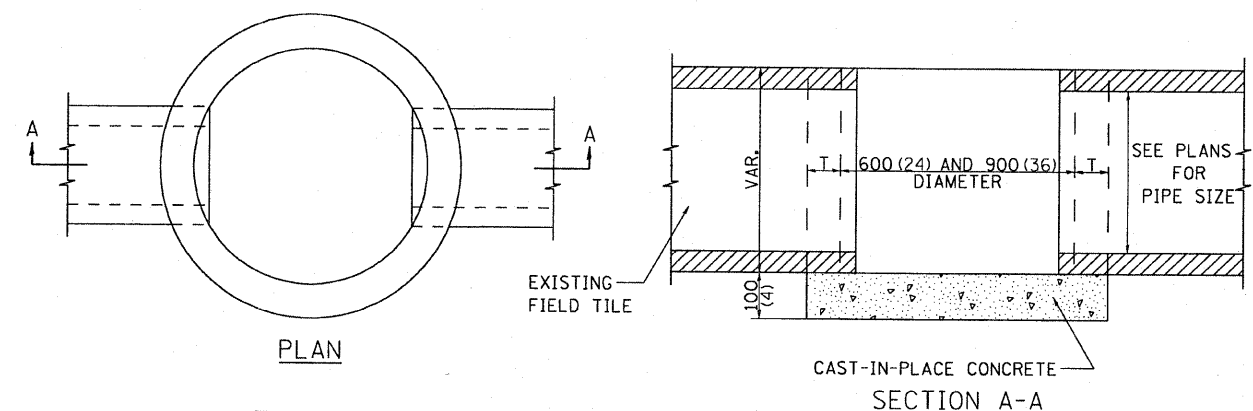
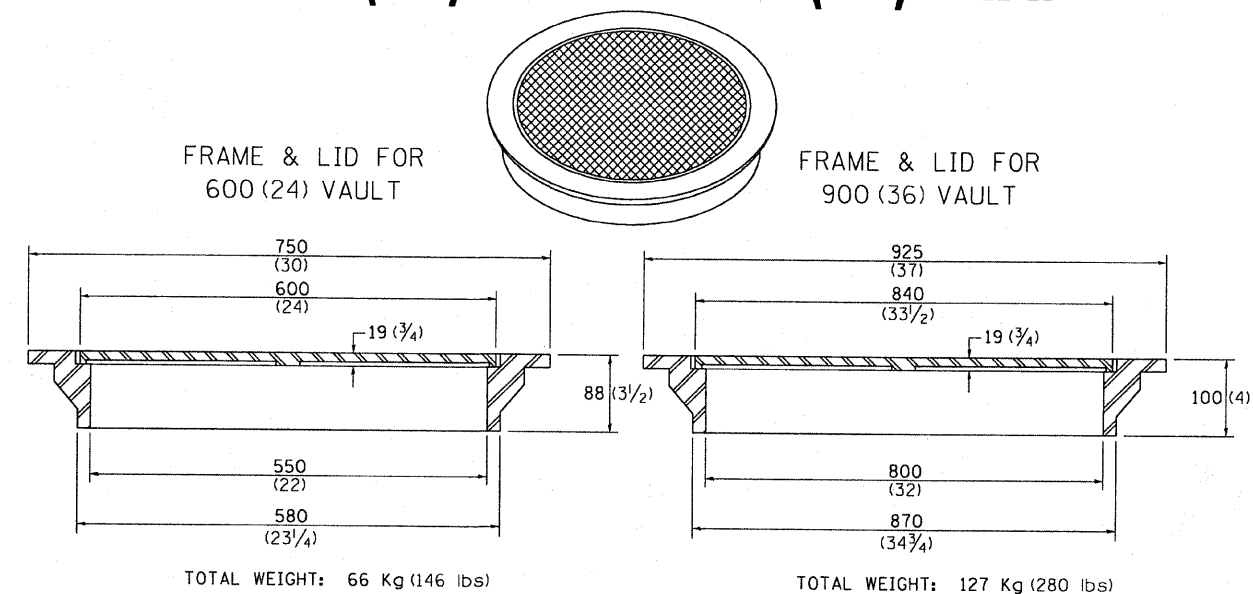
# EROSION CONTROL DETAILS FOR SILT FENCE



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

REVISED - 10-22-01

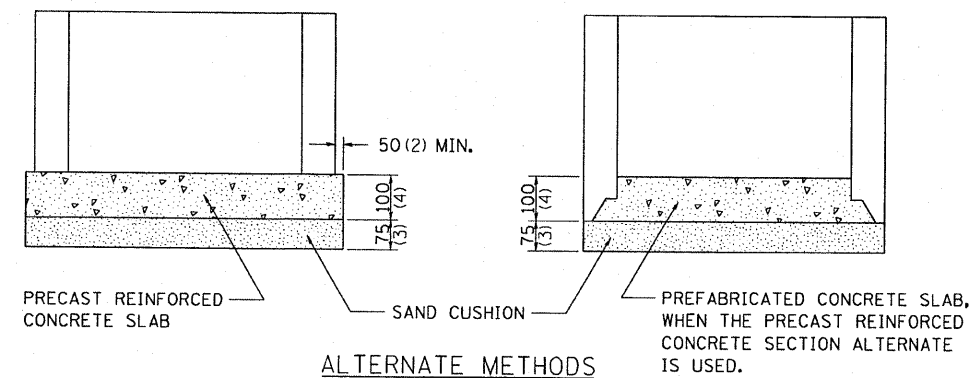
# FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.



ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

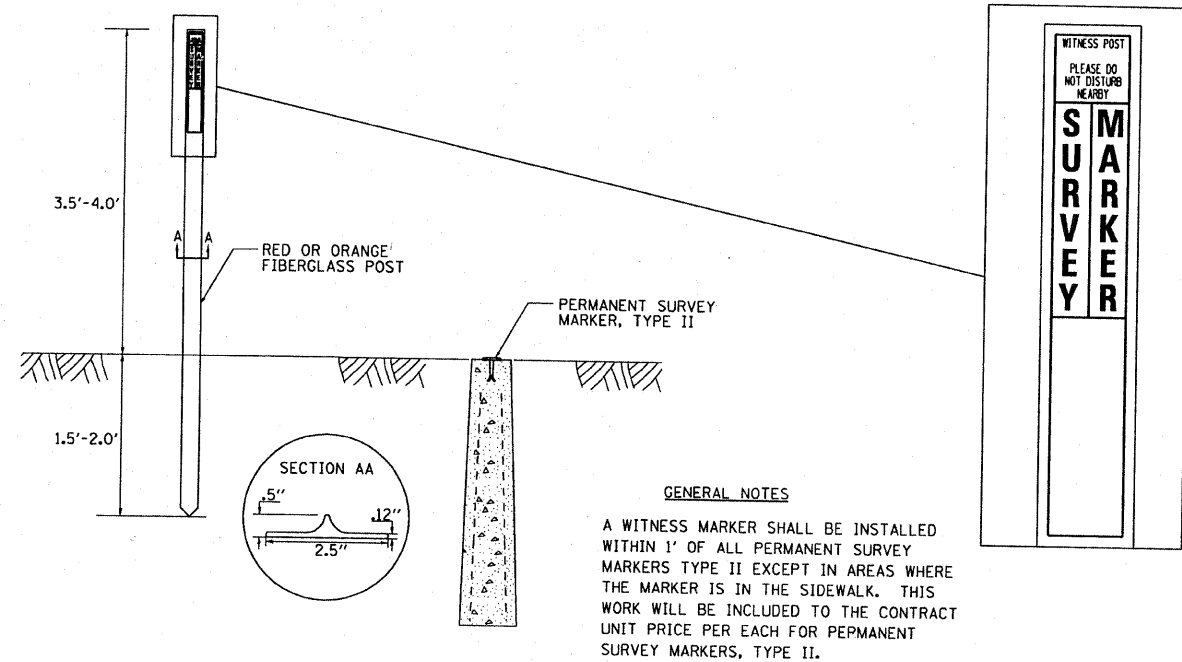
NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

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



REVISED - 5-03-94	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		1087	10TT-1	STEPHENSON	47	30
REVISED -		SCALE: 2.0000 "/td> <td colspan="2">CONTRACT NO. 64C64</td> <td></td> <td></td>	CONTRACT NO. 64C64			
REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

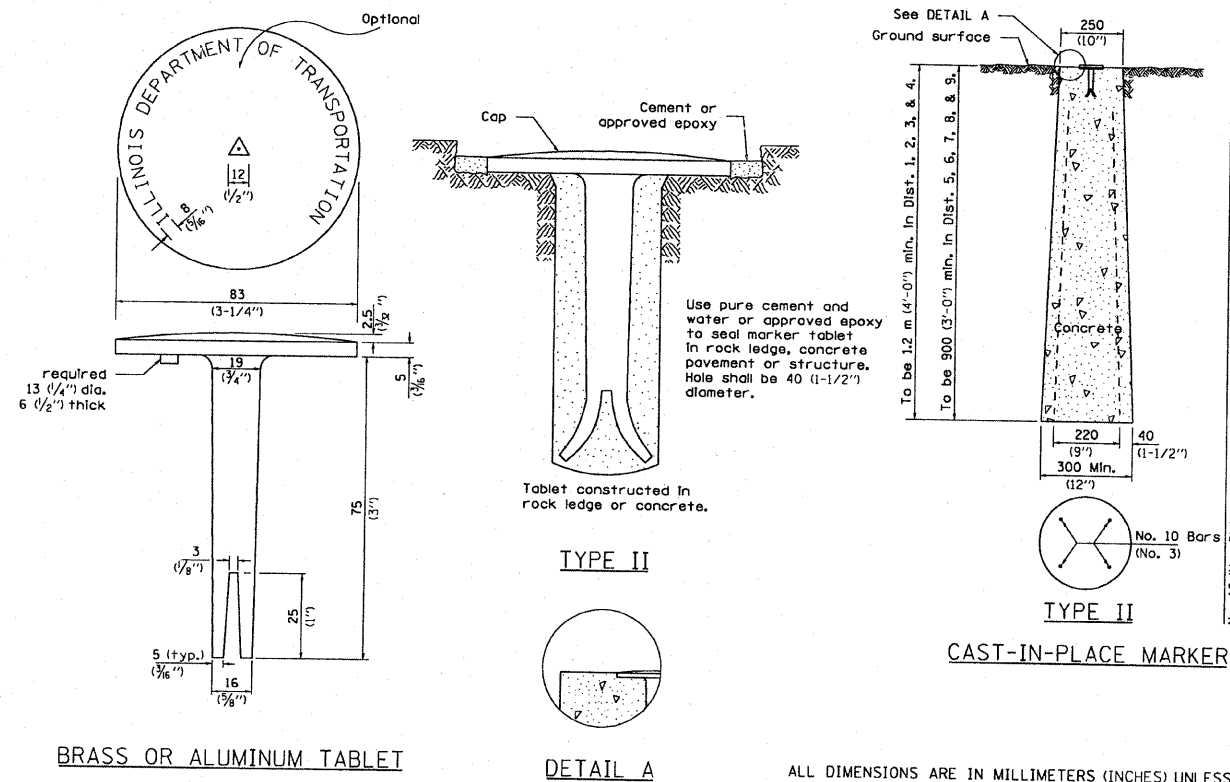
# WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



### 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



No. 10 (No. 3) bars to be 750 (30") for 900 (36") min. & 1.1 m (3'-6") for 1.2 m (4'-0") min.

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

REVISED - 6-26-06

REVISED -	<b>REGION 2 / DISTRICT 2 STANDARD</b>				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
REVISED -					1087	107T-1	STEPHENSON	47	31	
REVISED -					CONTRACT NO. 64C64					
REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

# STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

## SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REPLACEMENT OF AR CULVERTS AT TWO LOCATIONS AND EXCAVATION FOR DITCHES

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 1.85 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 3.14 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 1.29 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS  
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE  
TRIBUTARY TO YELLOW CREEK

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES  
STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:  
PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

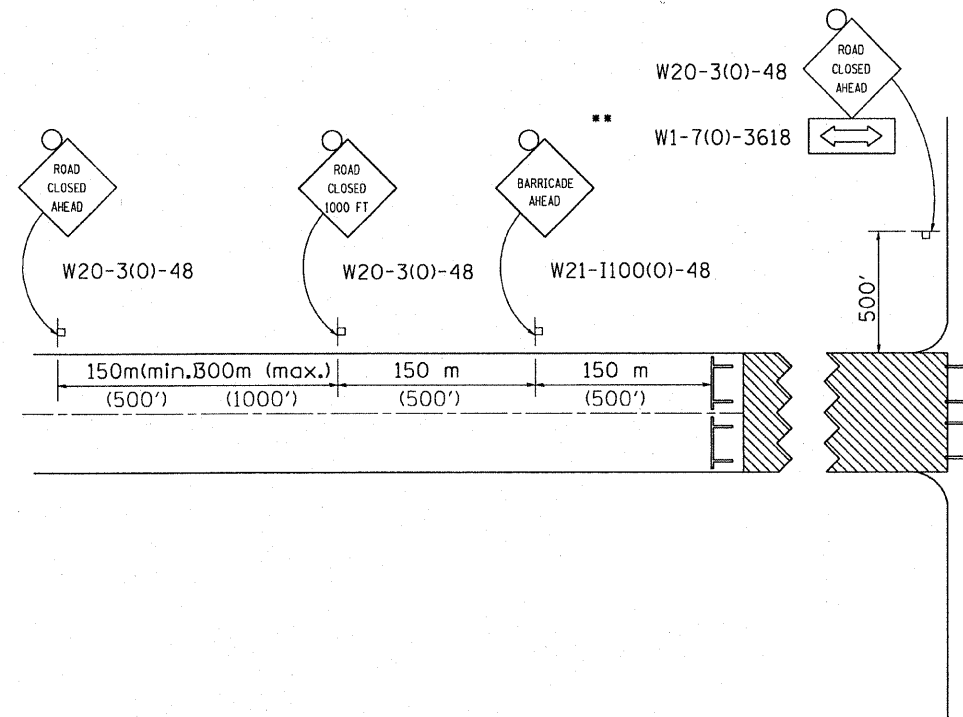
STABILIZATION PRACTICES DURING CONSTRUCTION:  
AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING

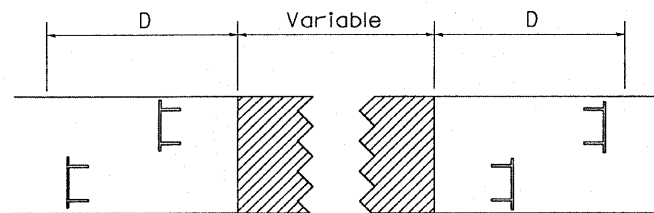
TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEDED.

FILE NAME = ...07\07075\08-ns\z11306spl6.dgn	USER NAME = CFC-ns	DESIGNED -	REVISED - 5-12-04	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			1087	107T-1	STEPHENSON	47	32	
		CHECKED -	REVISED -			SCALE:		SHEET NO. 5 OF 8 SHEETS		STA.	TO STA.
		DATE -	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 64C64	

# TRAFFIC CONTROL FOR ROAD CLOSURE



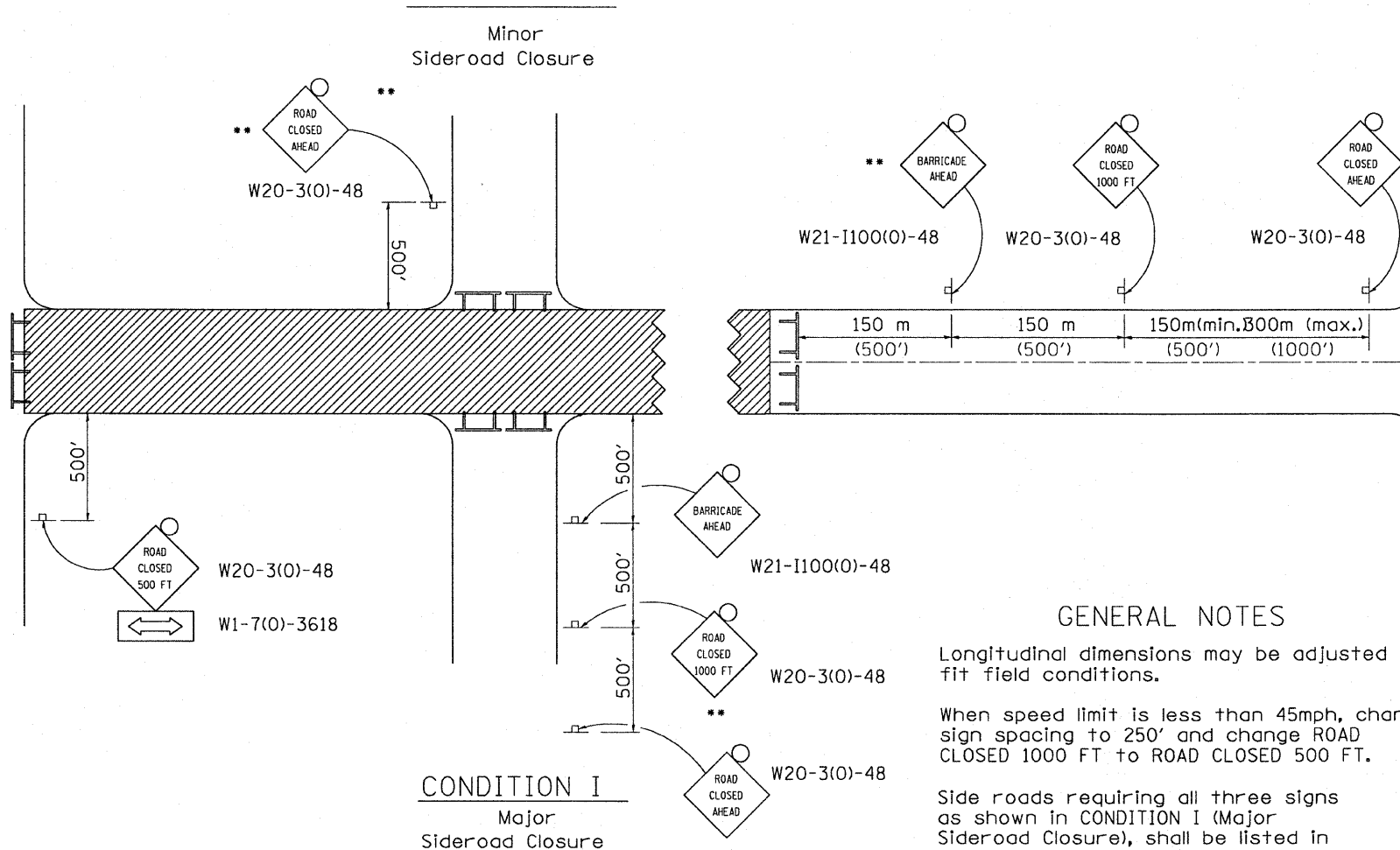
ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



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.

## CONDITION II

Minor Sideroad Closure



## CONDITION I

Major Sideroad Closure

### 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.

### SYMBOLS

- Work area
- Type III Barricade with Flashers
- Sign with flashing light

TYPICAL APPLICATION FOR ROAD CLOSURE

FILE NAME =	USER NAME = CFC-ns	DESIGNED -	REVISED - 1-11-08
...\\07\07075\vb8-ns\z11306apl7.dgn		DRAWN -	REVISED -
	PLOT SCALE = 2.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 01/23/2008	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C64	

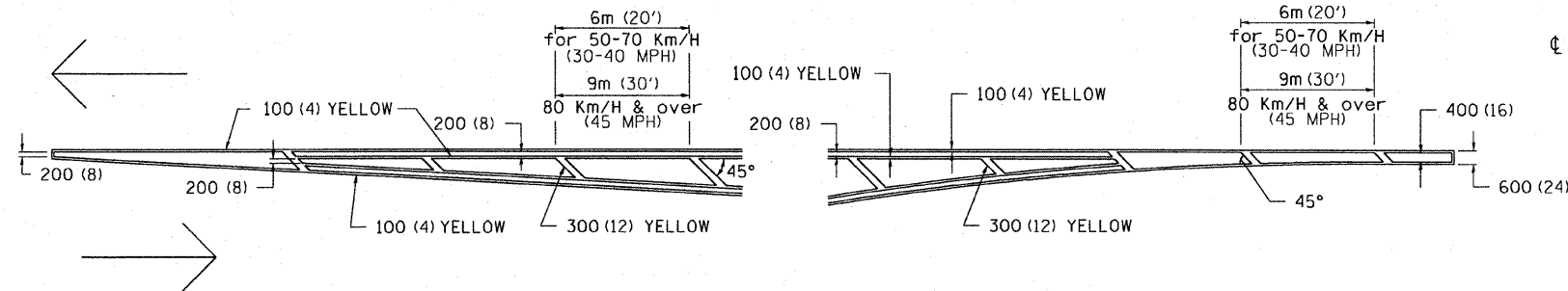
SCALE: SHEET NO. 6 OF 8 SHEETS STA. TO STA.

TRAFFIC CONTROL FOR ROAD CLOSURE

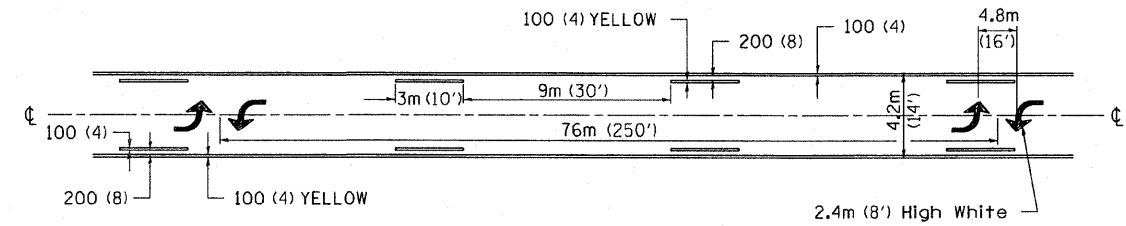
40.1

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

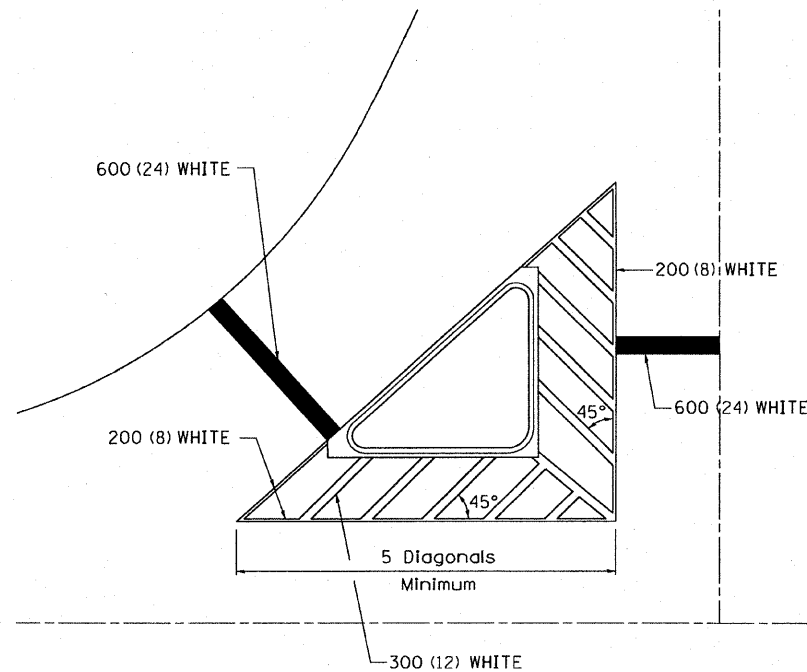


## MEDIAN PAVEMENT MARKING

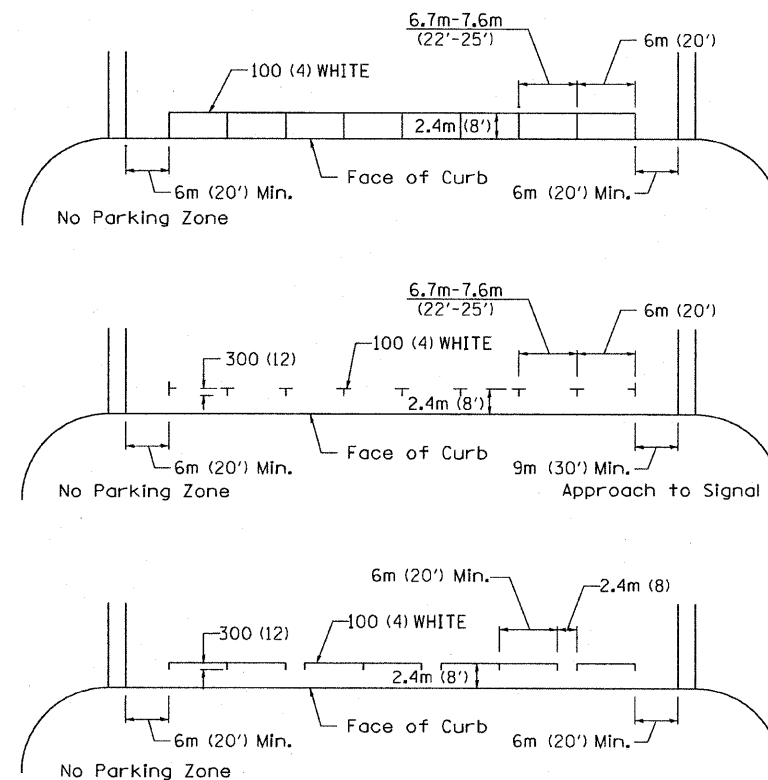


•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

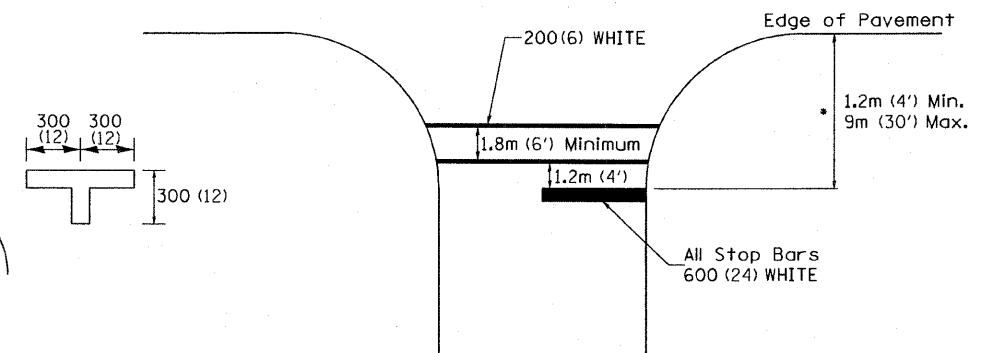


## TYPICAL PARKING SPACING



## STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = CFC-rns	DESIGNED -	REVISED - 1-11-08
...\\07\07075\vb\ms\z11306spl8.dgn		DRAWN -	REVISED -
	PLOT SCALE = 2.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 01/23/2008	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

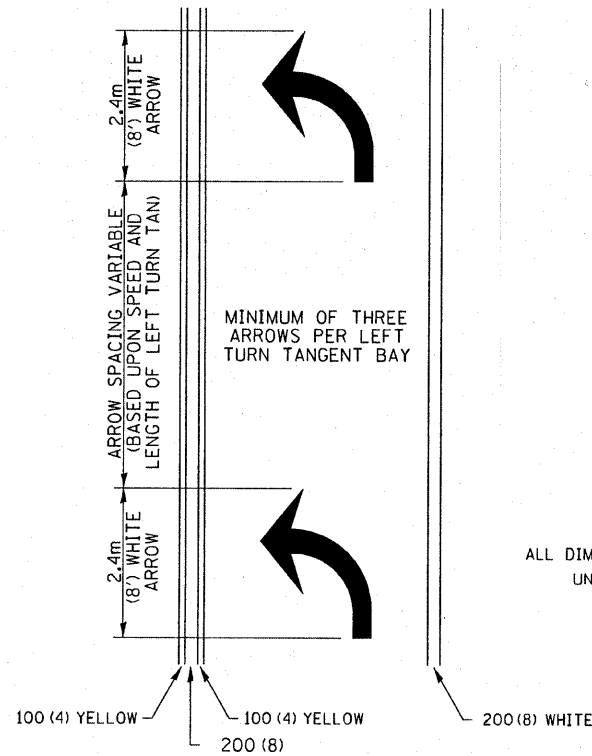
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
1087	1077-1	STEPHENSON	47	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C64	

SCALE: SHEET NO. 7 OF 8 SHEETS STA. TO STA.



# TYPICAL PAVEMENT MARKINGS

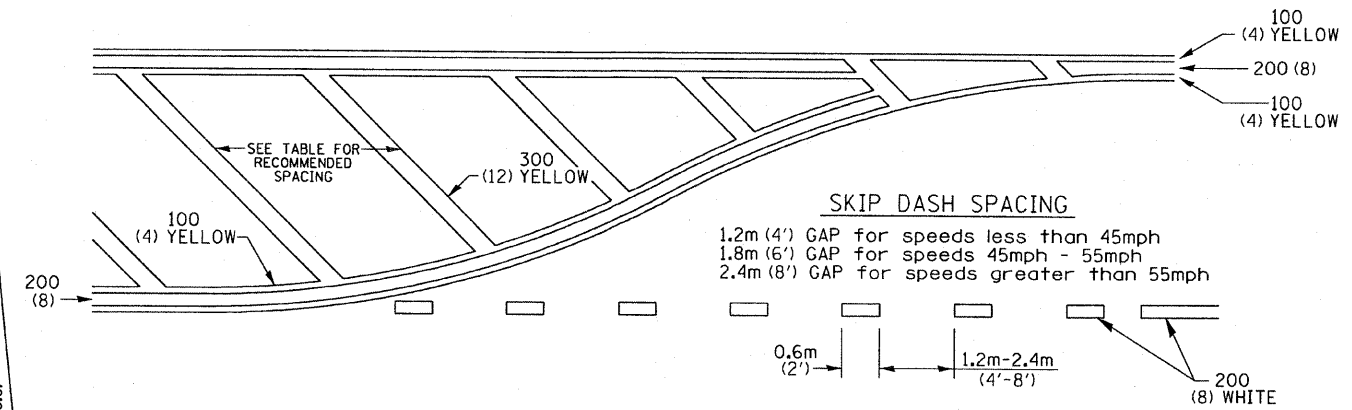
## ARROW LAYOUT



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

- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

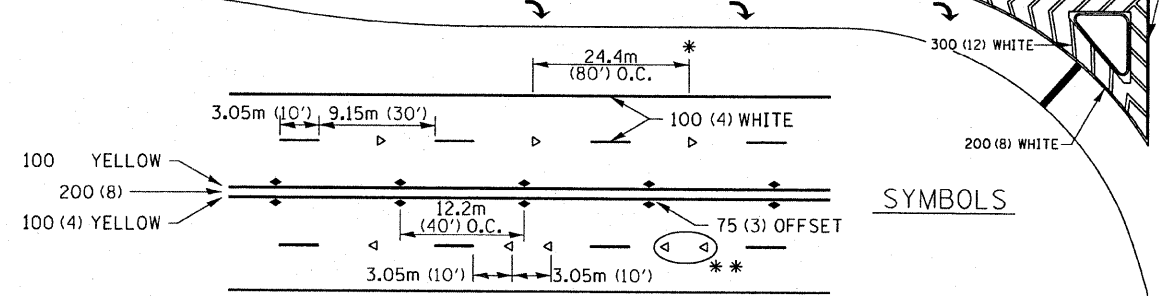
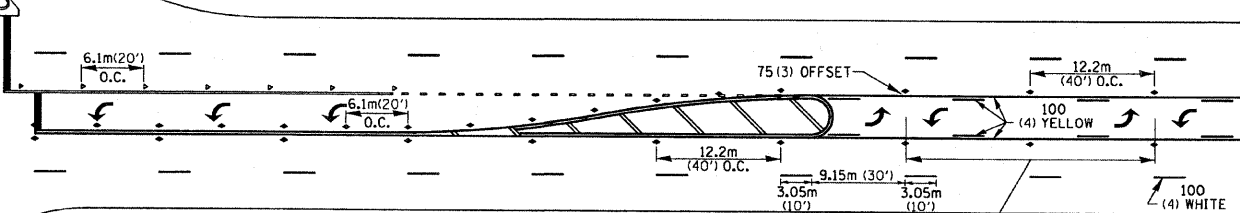
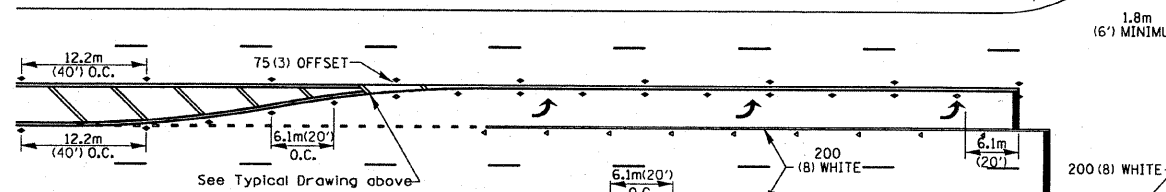
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

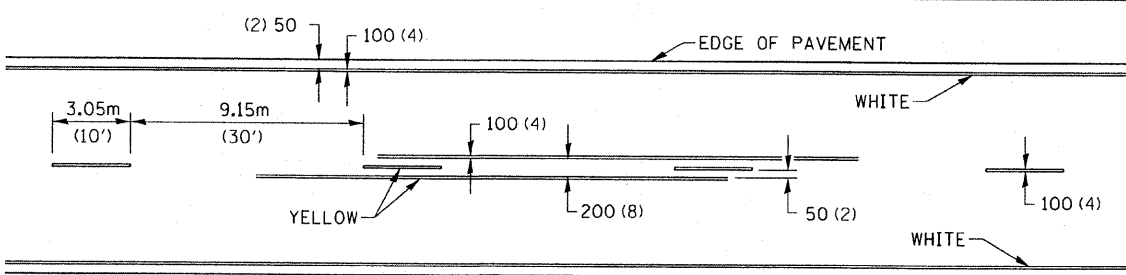
NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



- REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT ≥ 25,000

## MULTI-LANE / UNDIVIDED

## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

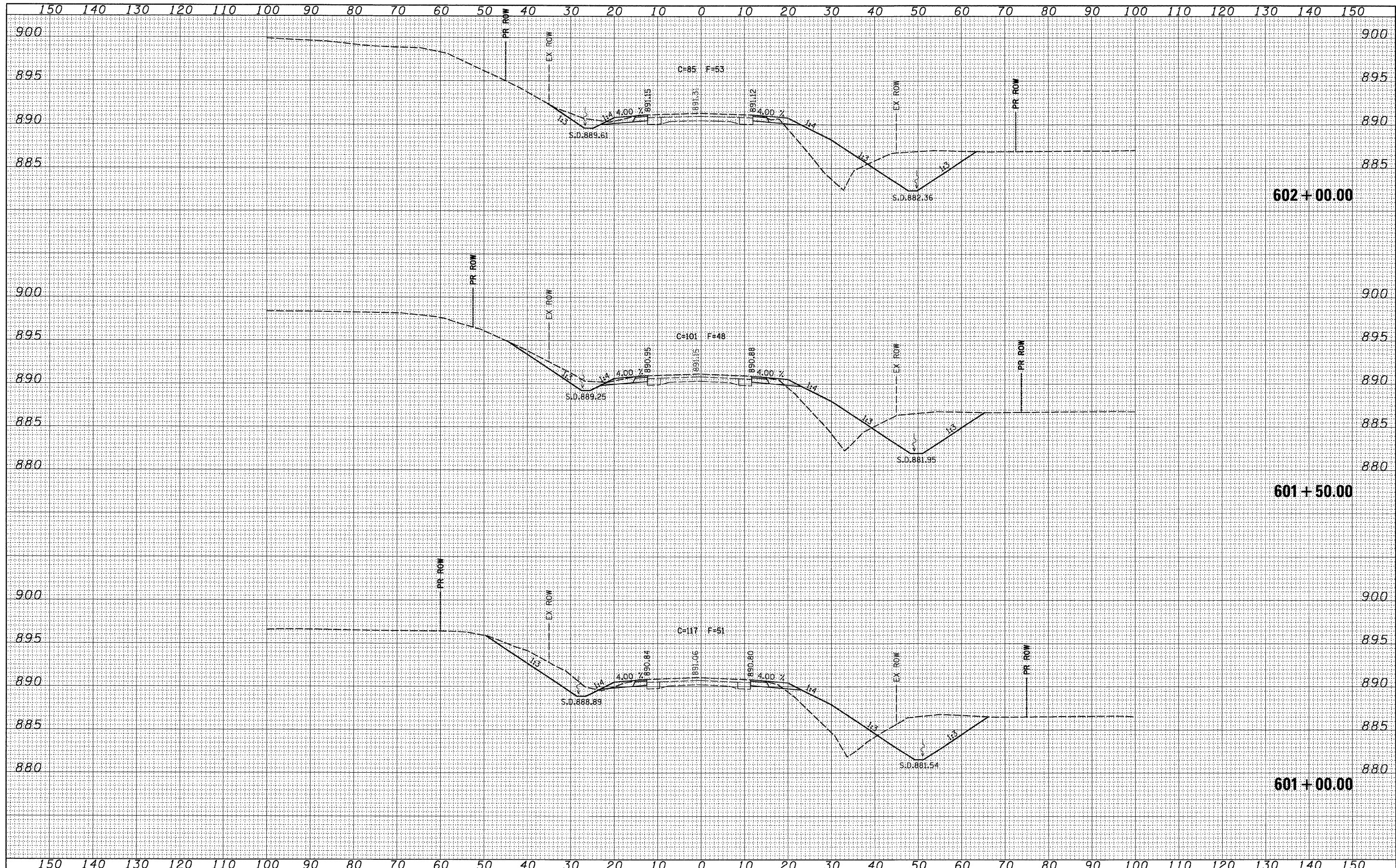
F.A.S. RTE. 1087	SECTION 107T-1	COUNTY STEPHENSON	TOTAL SHEETS 47	SHEET NO. 35
SCALE:		CONTRACT NO. 64C64		
SHEET NO. 8 OF 8 SHEETS		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		





DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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PLOT DATE = 01/21/2008	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 73 CROSS SECTIONS**

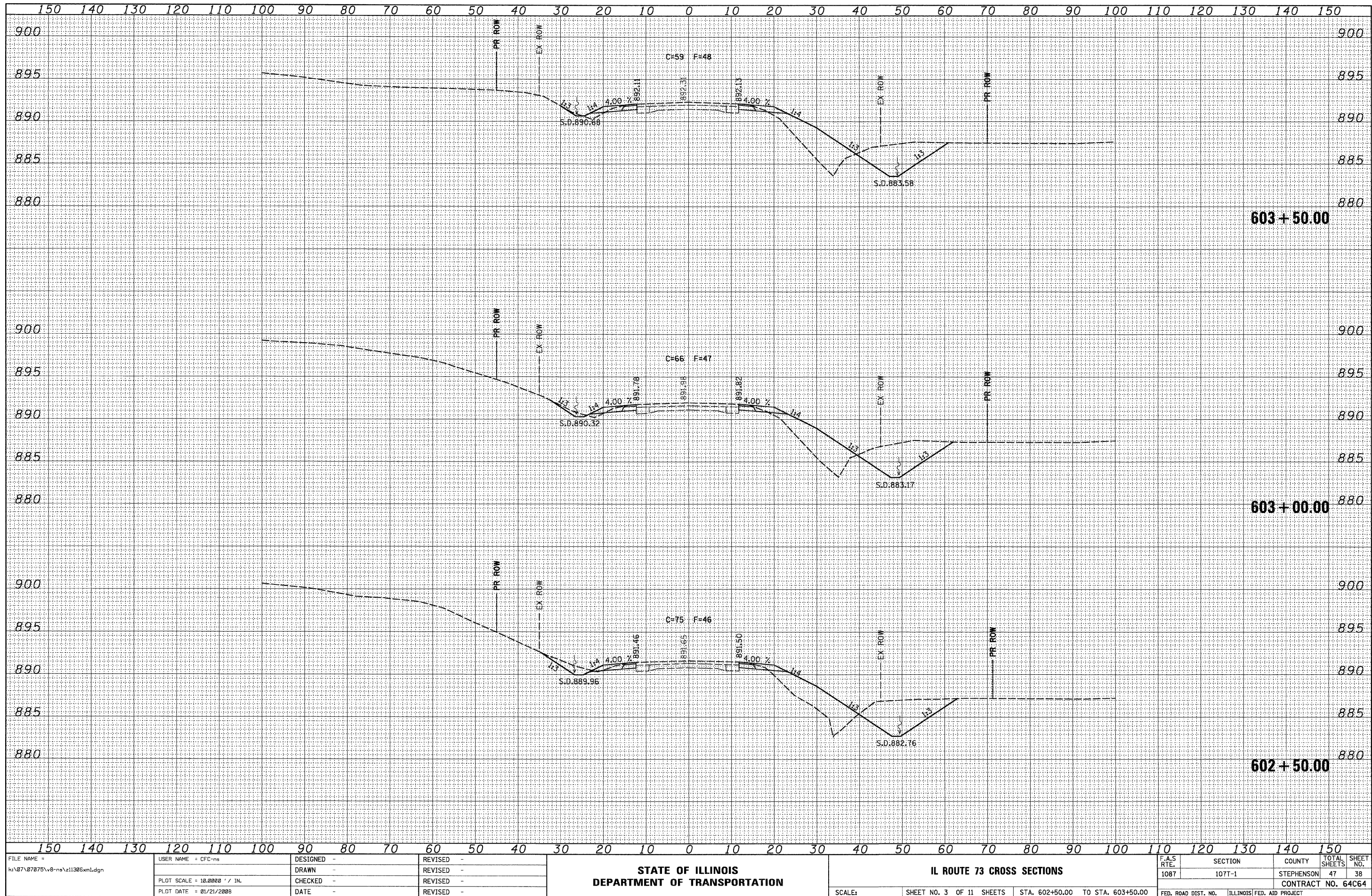
SCALE: SHEET NO. 2 OF 11 SHEETS STA. 601+00.00 TO STA. 602+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	37
CONTRACT NO. 64C64				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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NOTE BOOK	
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AREAS CHECKED	

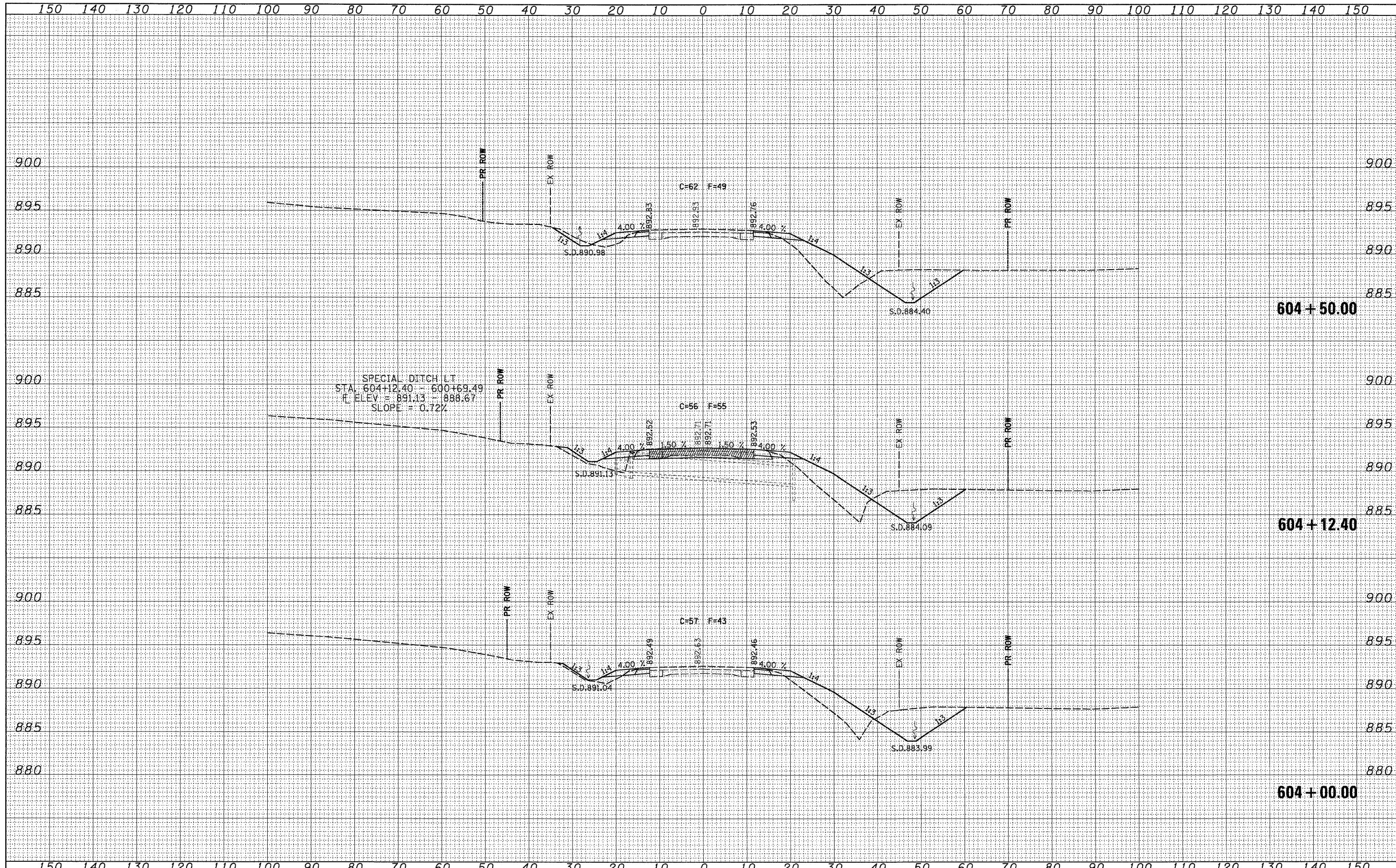
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NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



FILE NAME =	USER NAME = CFC-na	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 73 CROSS SECTIONS</b>		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ku\07\07075\v8-na\z11305xml.dgn	PLT SCALE = 10.0000' / IN.	DRAWN -	REVISED -		1087	107T-1	STEPHENSON	47	38		
PLT DATE = 01/21/2008	DATE -	CHECKED -	REVISED -		SCALE: SHEET NO. 3 OF 11 SHEETS STA. 602+50.00 TO STA. 603+50.00		CONTRACT NO. 64C64				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

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

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

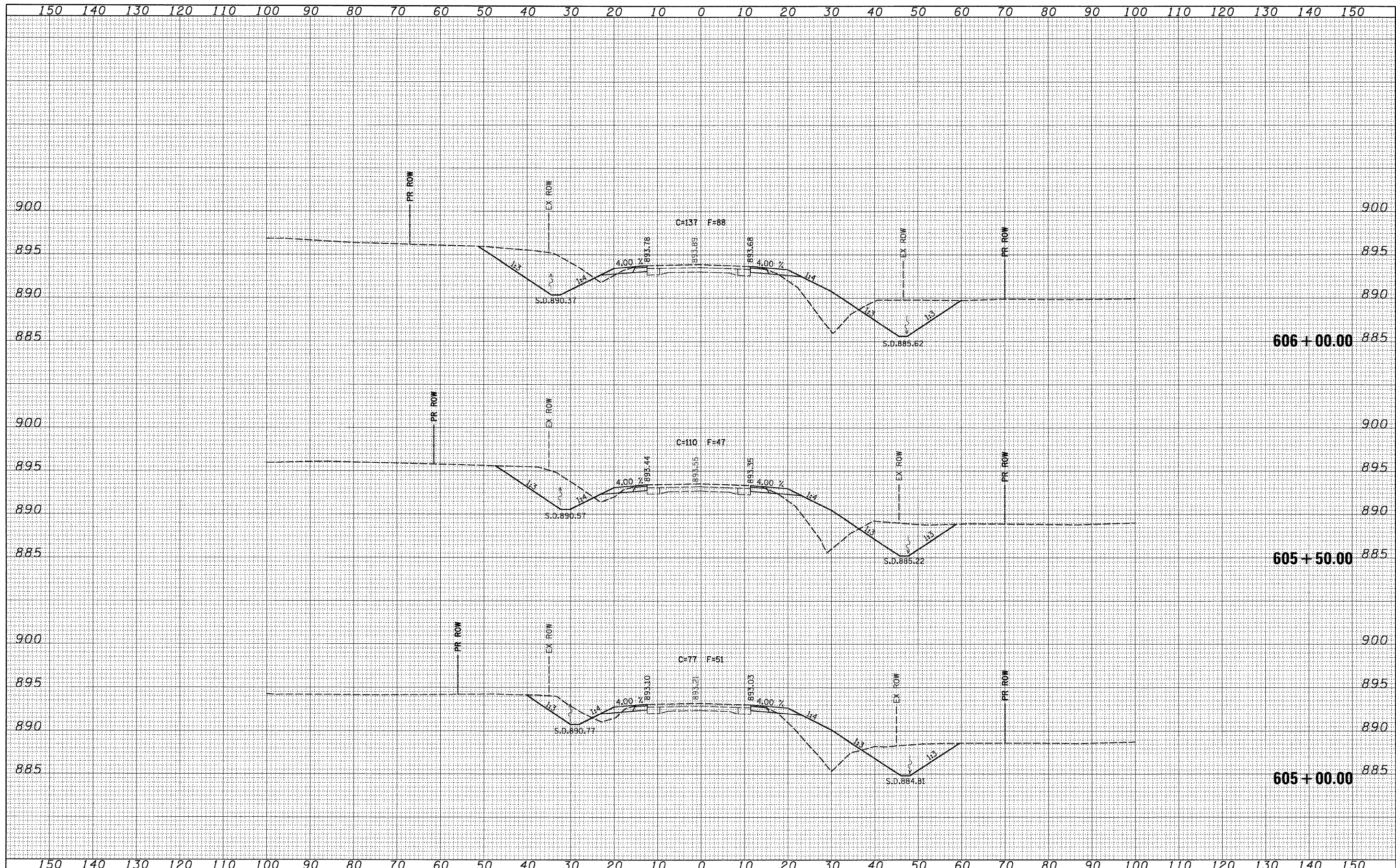


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		DRAWN -	REVISED -		1087	107T-1	STEPHENSON	47	39	CONTRACT NO. 64C64		
PLOT SCALE = 12.0000' / IN.		CHECKED -	REVISED -		SCALE:		SHEET NO. 4 OF 11 SHEETS		STA. 604+00.00 TO STA. 604+50.00		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 01/21/2008		DATE -	REVISED -									



BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 73 CROSS SECTIONS**

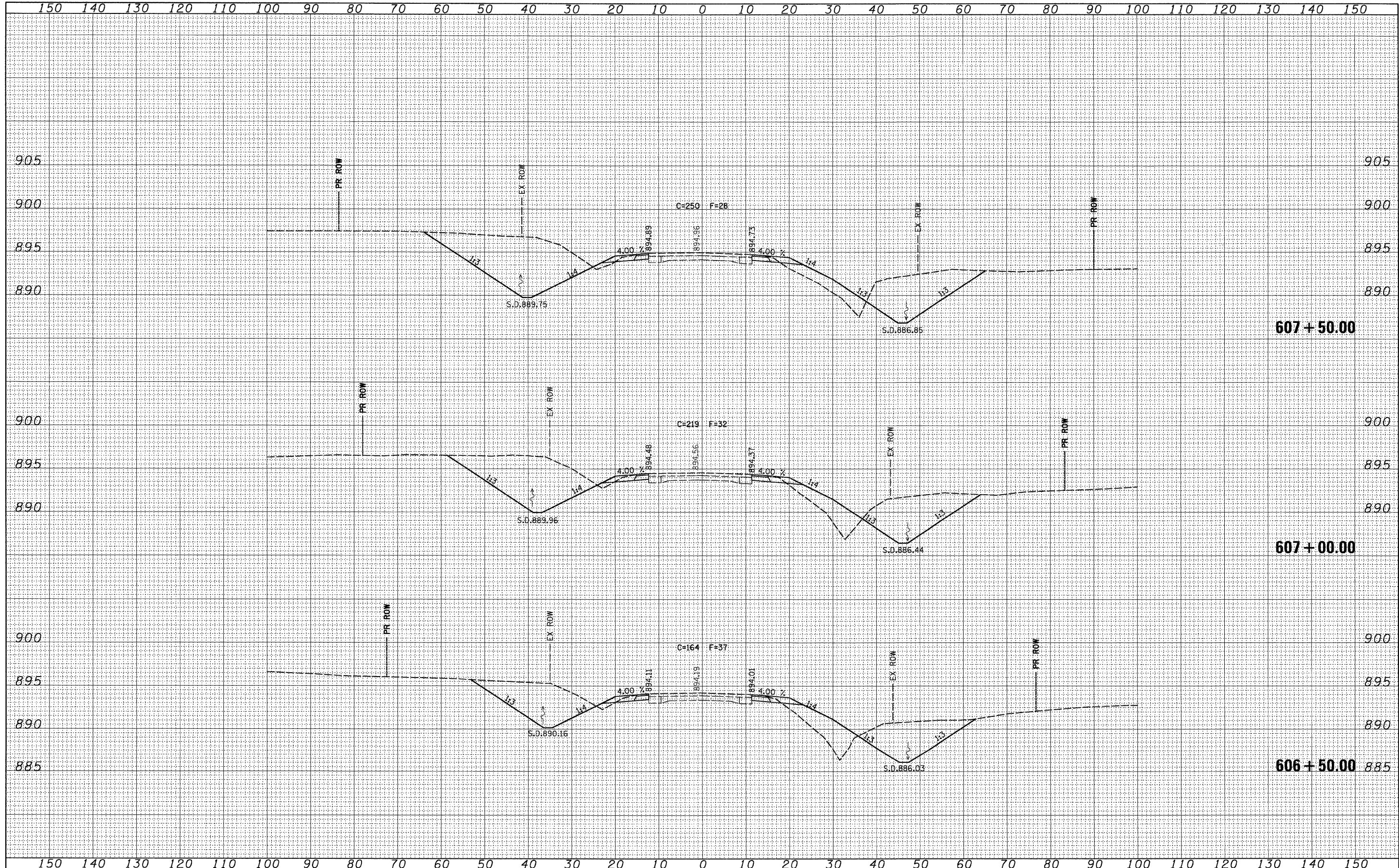
SCALE: SHEET NO. 5 OF 11 SHEETS STA. 605+00.00 TO STA. 606+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	40
CONTRACT NO. 64C64			ILLINOIS FED. AID PROJECT	



DATE	
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FINAL SURVEY	
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NOTE BOOK	
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NOTE BOOK	
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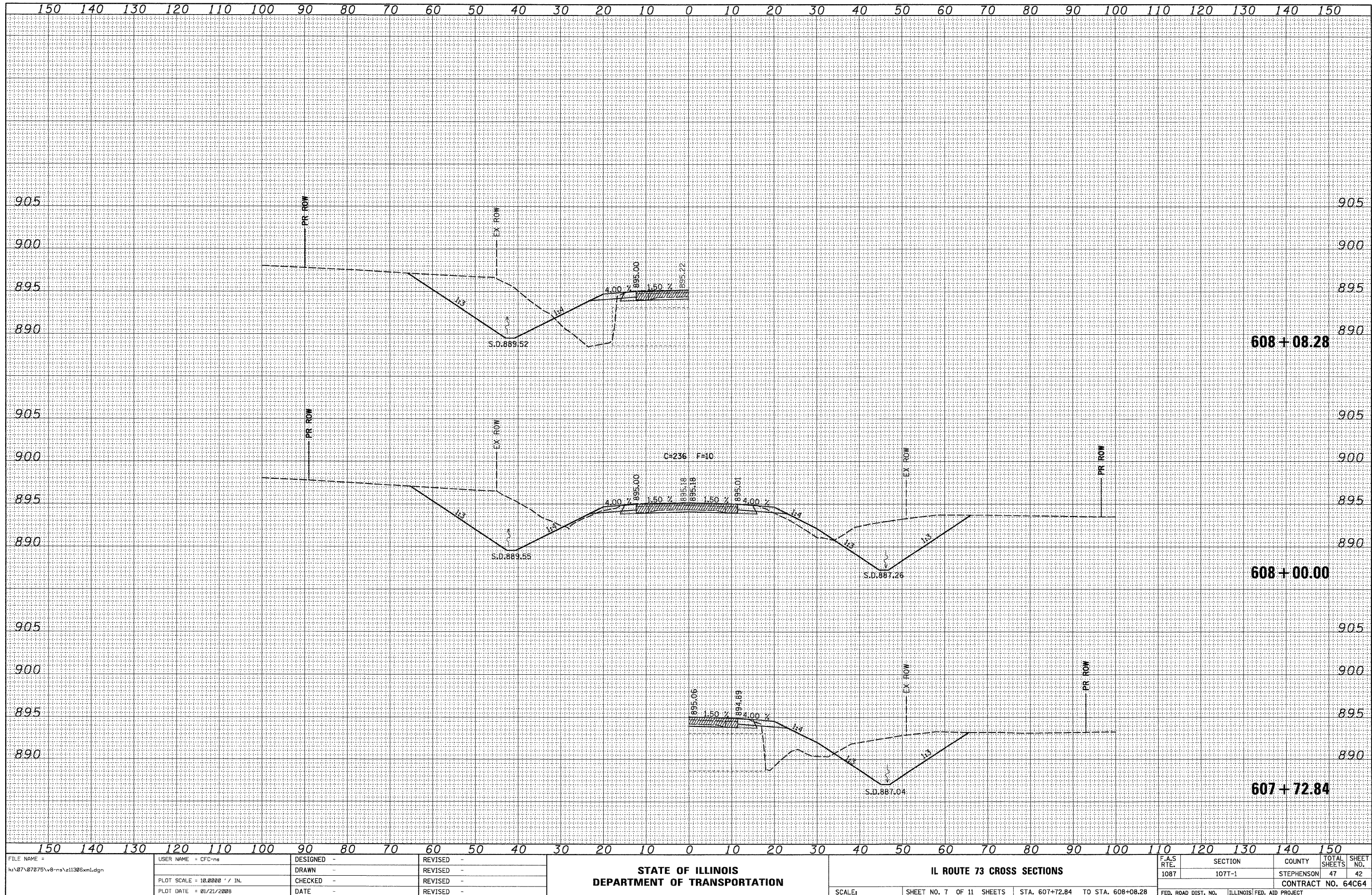


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ku\07\07075\vb-na\z11306xml.dgn		DRAWN -	REVISED -		1087	107T-1	STEPHENSON	47	41		
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PLOT DATE = 01/21/2009		DATE -	REVISED -		SCALE:	SHEET NO. 6 OF 11 SHEETS	STA. 606+50.00 TO STA. 607+50.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



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

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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PLOT DATE = 01/21/2008	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 73 CROSS SECTIONS**

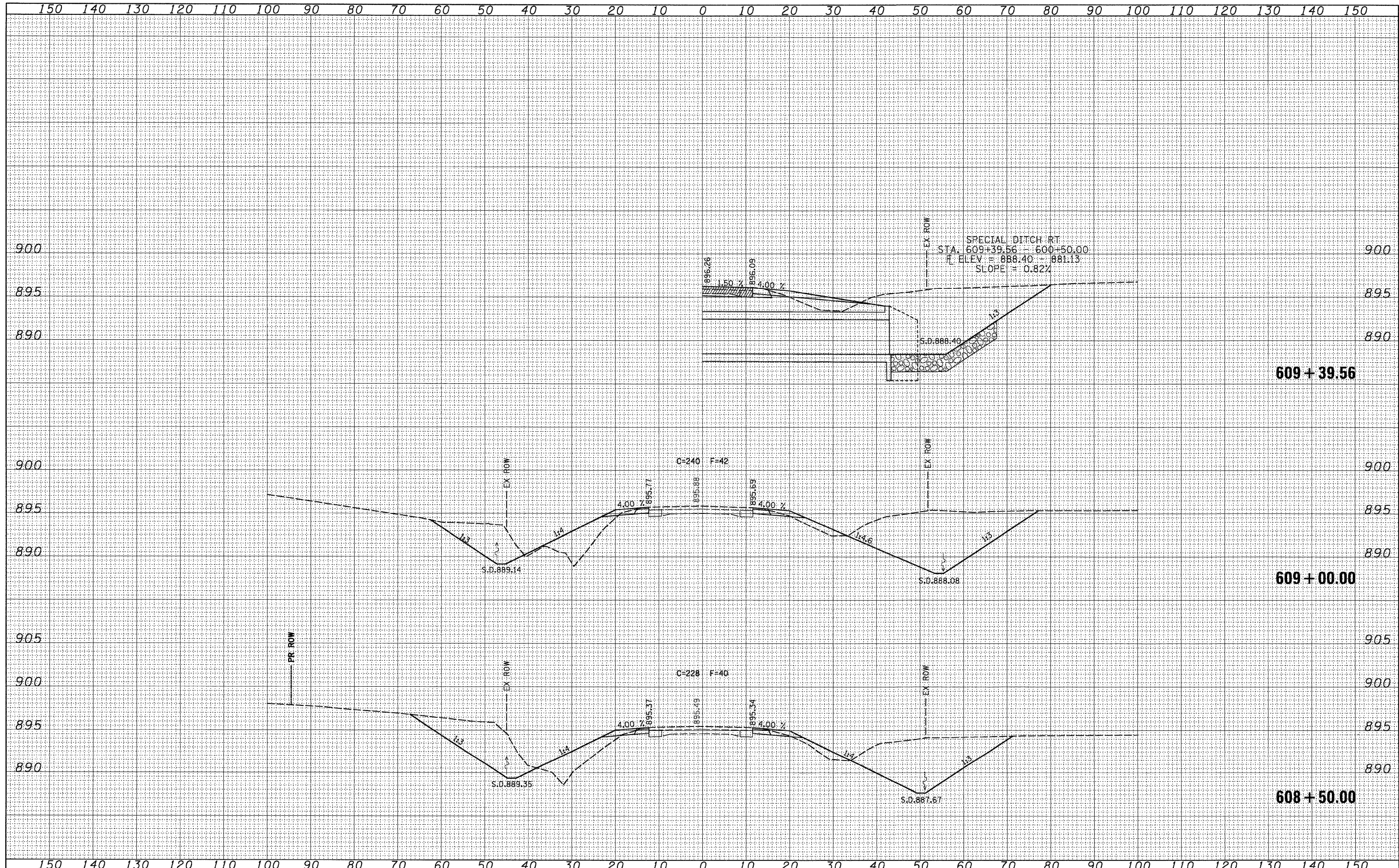
SCALE: SHEET NO. 7 OF 11 SHEETS STA. 607+72.84 TO STA. 608+08.28

F.A.S. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C64	



FINAL SURVEY	SURVEYED	DATE
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	AREAS CHECKED	

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



609 + 39.56

609 + 00.00

608 + 50.00

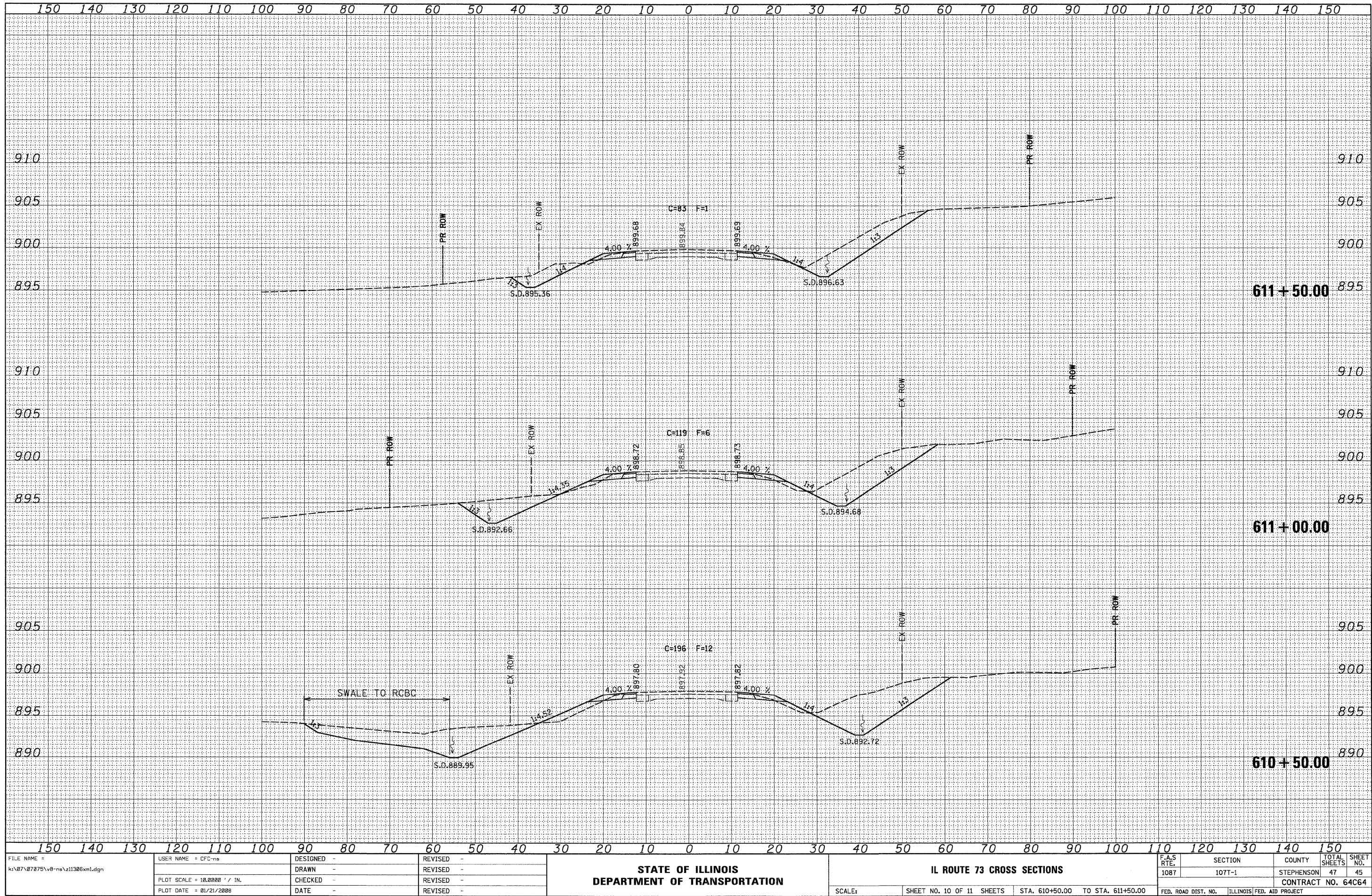
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kt\07\07075\v8-na\z11306.xml.dgn		DRAWN -	REVISED -		1087	107T-1	STEPHENSON	47	43			
		CHECKED -	REVISED -		SCALE: SHEET NO. 8 OF 11 SHEETS STA. 608+50.00 TO STA. 609+39.56			CONTRACT NO. 64C64				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							





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PLOT DATE = 01/21/2008	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 73 CROSS SECTIONS**

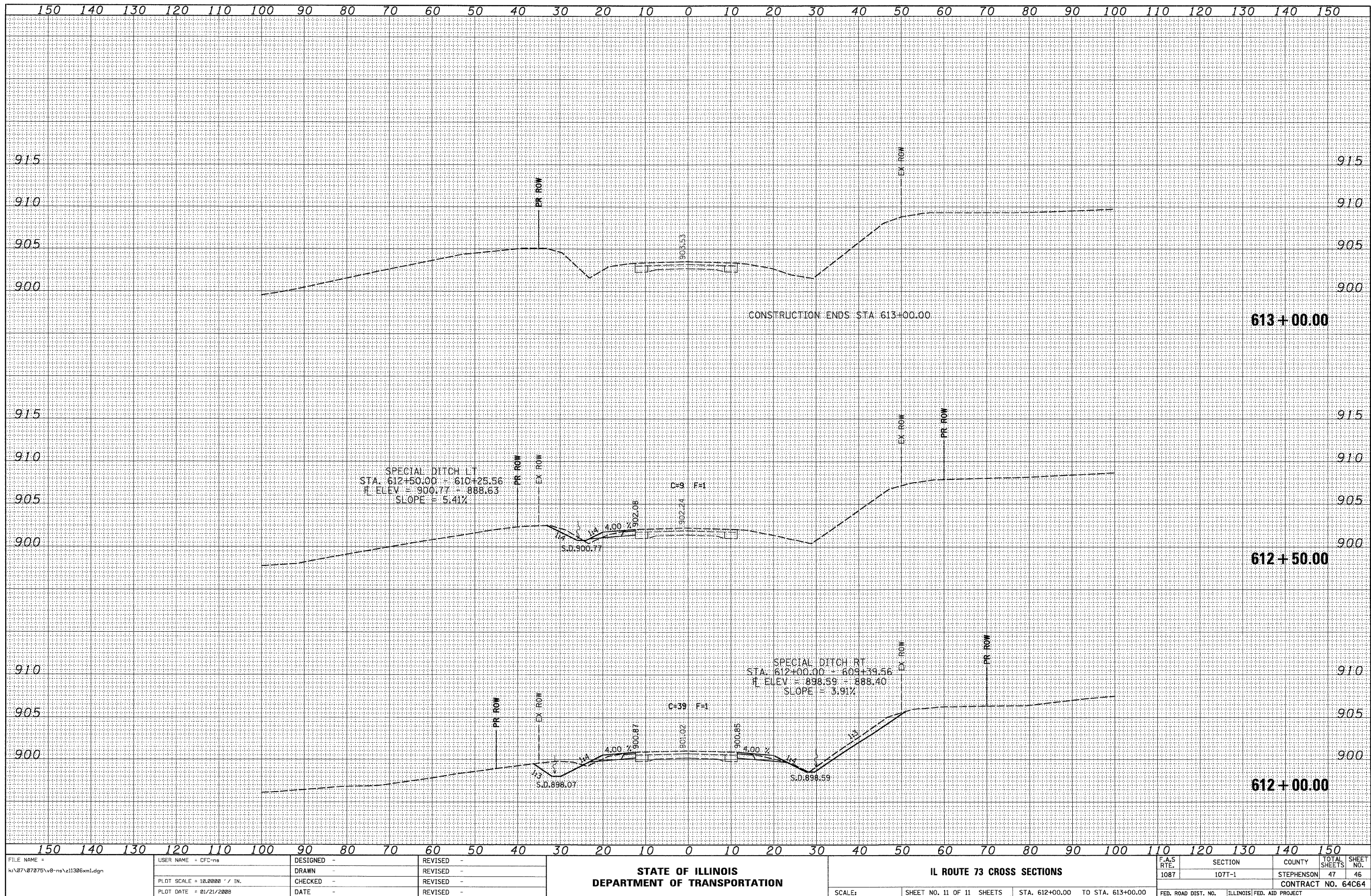
SCALE: SHEET NO. 10 OF 11 SHEETS STA. 610+50.00 TO STA. 611+50.00

F.A.S. RTE. 1087	SECTION 107T-1	COUNTY STEPHENSON	TOTAL SHEETS 47	SHEET NO. 45
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE	BY
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 73 CROSS SECTIONS**

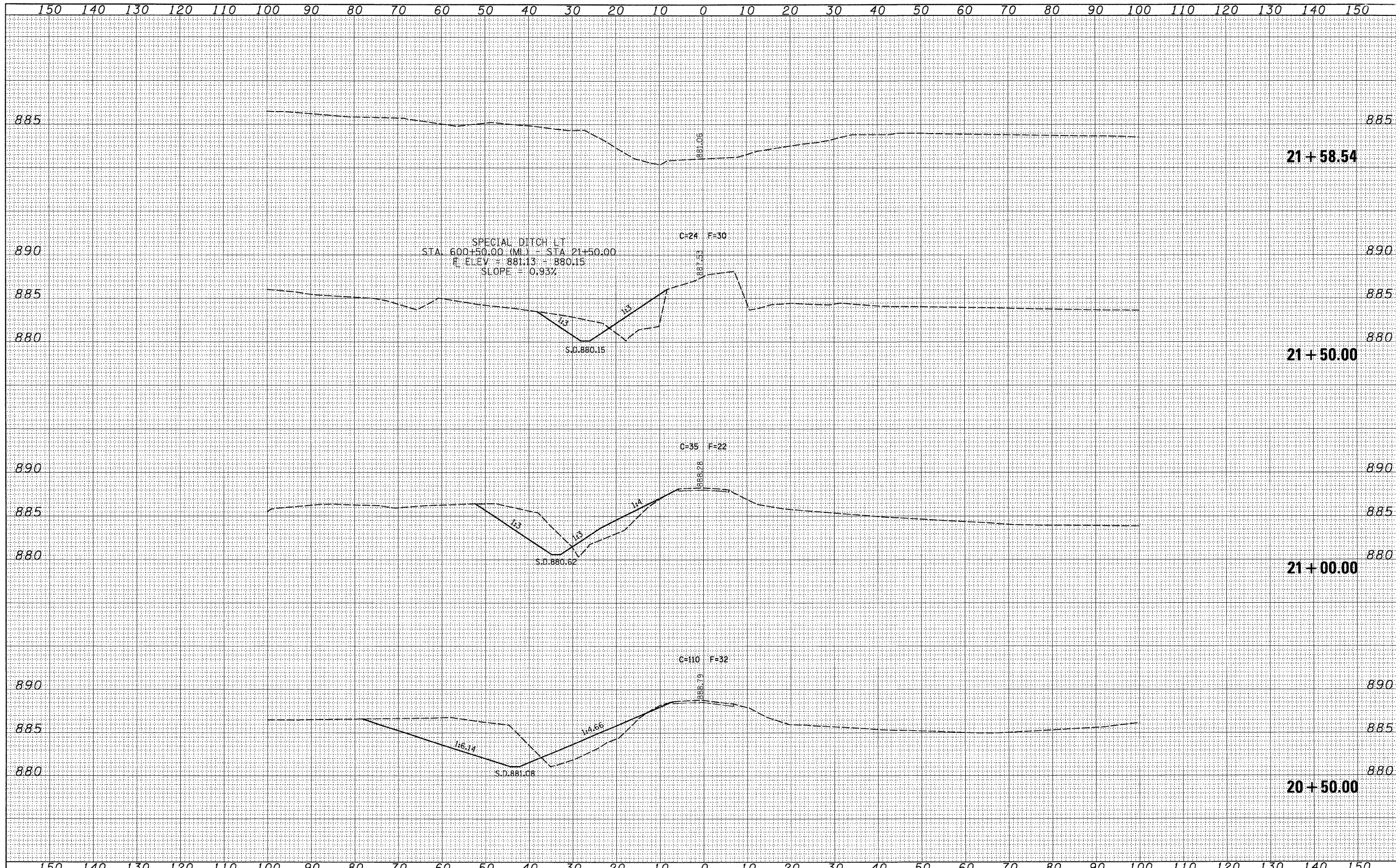
SCALE: SHEET NO. 11 OF 11 SHEETS STA. 612+00.00 TO STA. 613+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	107T-1	STEPHENSON	47	46
CONTRACT NO. 64C64				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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FILE NAME =	USER NAME = CFC-nh	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GODDARD ROAD CROSS SECTIONS</b>		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 01/21/2008		DATE -	REVISED -								