

PROJECT ENGINEER: REBECCA MARRUFFO

SENIOR SQUAD LEADER: KEVIN HENSON (815)-284-5971

CONTRACT NO. 64737

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55*	1

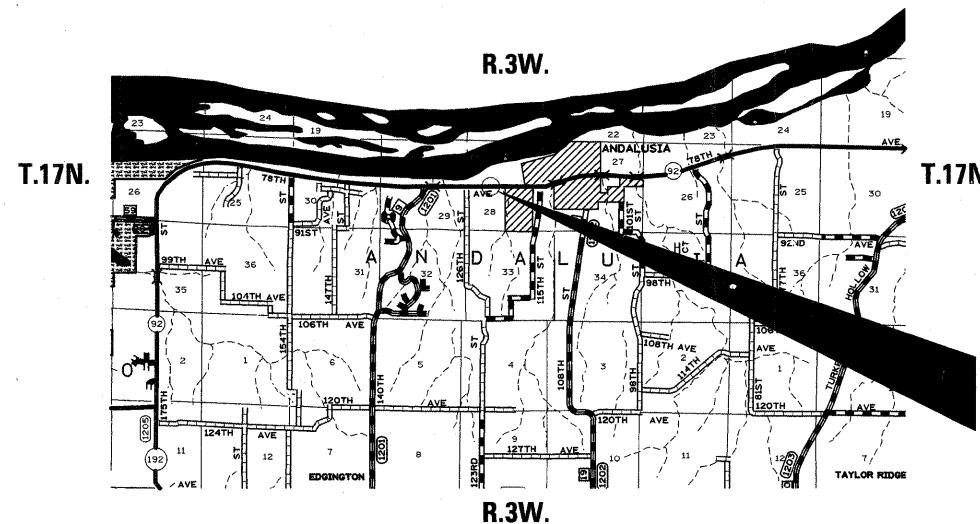
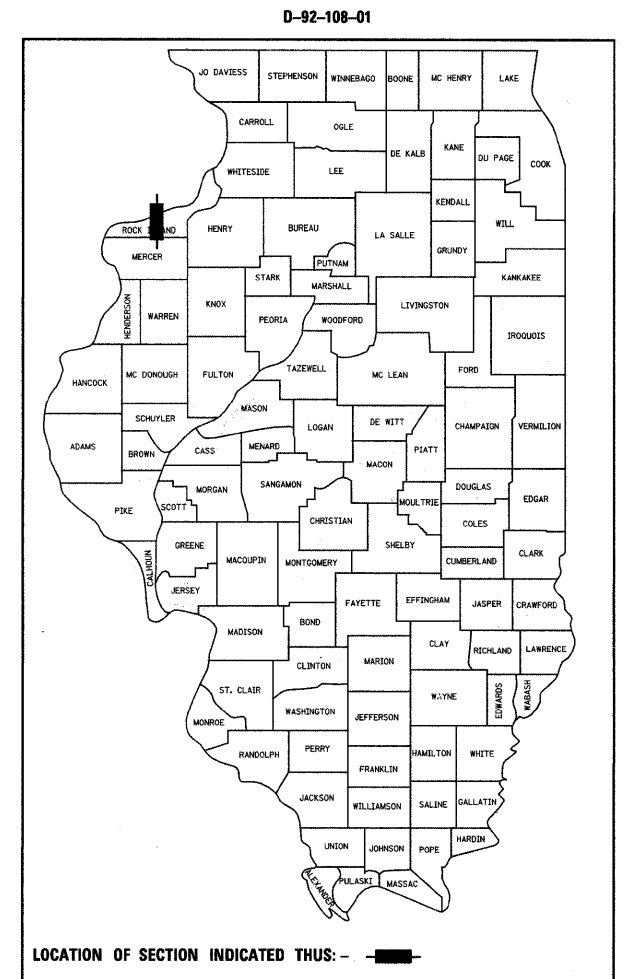
*55-1-54

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

FAP ROUTE 599 (IL 92)
SECTION 103MFT-T
PROJECT ACF-0599(024)
ROCK ISLAND COUNTY

C-92-007-09

FOR INDEX OF SHEETS, SEE SHEET NO. 2



**IMPROVEMENT BEGINS
STA. 989 + 93.03
SECTION BEGINS
STA. 995 + 64**

INCLUDES THE REMOVAL AND REPLACEMENT
OF THE EXISTING BOX CULVERT
EXISTING SN-081-1050
PROPOSED SN-081-1116

**SECTION ENDS
STA. 997 + 02
IMPROVEMENT ENDS
STA. 1003 + 02.55**

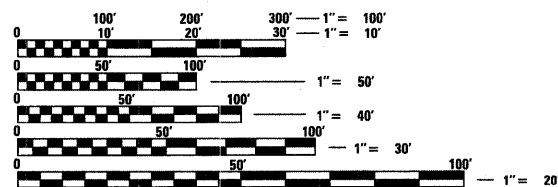
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 12/05 2009

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8, 2009
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2009
[Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



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

CONTRACT NO. 64737

ANDELUSIA TOWNSHIP, SECTION 28

GROSS LENGTH OF PROJECT = 138 LIN. FT. = 0.026 MILES
NET LENGTH OF PROJECT = 138 LIN. FT. = 0.026 MILES

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX AND STANDARDS

INDEX

1	COVER SHEET
2	INDEX AND STANDARDS
3 - 5	SUMMARY OF QUANTITIES
6 - 7	GENERAL NOTES
8 - 9	TYPICAL SECTIONS
10 - 12	SCHEDULE OF QUANTITIES
13	BITUMINOUS SCHEDULE
14	EARTHWORK SCHEDULE
15 - 16	HORIZONTAL AND VERTICAL CONTROL
17 - 18	PLAN AND PROFILE
19 - 23	STAGING PLAN SHEETS
24 - 33*	CULVERT DETAIL SHEETS
34	GRADING AROUND WINGWALLS (20.4)
	DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL (23.4)
	HOT-MIX ASPHALT SHOULDERS (23.4a)
	DELINEATOR AND POST ORIENTATION (37.4)
35	TYPICAL BENCHING DETAIL ON EXISTING EMBANKMENT (50.4)
	TREE REPLACEMENT SCHEDULE (90.4)
	STOP LINE SIGN FOR TEMPORARY SIGNALS (99.4)
36	EROSION CONTROL DETAILS FOR SILT FENCE (29.2)
	INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) (39.2)
37	WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II (66.2)
	ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS (75.2)
38	HOT-MIX ASPHALT APPROACHES AND MAILBOX TURNOUTS (STABILIZED SHOULDERS) (21.1)
39 - 41	TYPICAL PAVEMENT MARKINGS (41.1)
42	DETAILS OF PLANTING AND BRACING TREES (92.1)
43 - 55	CROSS-SECTIONS

* PAGE 28 NOT USED

STANDARDS

280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
630001-08	STEEL PLATE BEAM GUARDRAIL
630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAIL
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 4.5M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
701321-10	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-03	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45MPH
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINIATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX AND STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pwork\PWIDOT\HENSONKE\dms34329\d16001crv.dgn	DRAWN -	REVISED -	599			103MFT-T	ROCK ISLAND	55	2	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64737							
PLOT DATE = Fri Dec 05 11:45:00 2008	DATE -	REVISED -	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY X028-2A	
				80% FED	20% STATE
20100500	TREE REMOVAL, ACRES	ACRE	0.19	0.19	
20200100	EARTH EXCAVATION	CU YD	535	535	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	CU YD	455	45.5	
20300100	CHANNEL EXCAVATION	CU YD	109	109	
25100630	EROSION CONTROL BLANKET	SQ YD	388	388	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	54	54	
28000300	TEMPORARY DITCH CHECKS	EACH	1	1	
28000400	PERIMETER EROSION BARRIER	FOOT	142	142	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28100107	STONE RIPRAP, CLASS A4	SQ YD	225	225	
28200200	FILTER FABRIC	SQ YD	225	225	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	260	260	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	22	22	
40600990	TEMPORARY RAMP	SQ YD	56	56	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	104	104	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10	10	
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	47	47	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	47	47	
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	399	399	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	57	57	
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SQ YD	174	174	
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	550	550	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	113	113	
50800105	REINFORCEMENT BARS	POUND	47260	47260	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	630	630	
50800615	BAR SPLICERS	EACH	88	88	
51500100	NAME PLATES	EACH	1	1	
54003000	CONCRETE BOX CULVERTS	CU YD	215.2	215.2	

* SPECIALTY ITEMS

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cs\pw_work\PWIDOT\HENSONKE\dms34329\d18010rv.dgn		DRAWN -	REVISED -			599	103MFT-T	ROCK ISLAND	55	3	
		CHECKED -	REVISED -			CONTRACT NO. 64737					
		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY X028-2A	
				80% FED	20% STATE
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	42	42	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	210	210	
542D1060	PIPE CULVERTS, CLASS D, TYPE 2 15"	FOOT	122	122	
54213450	END SECTIONS 15"	EACH	3	3	
54213453	END SECTIONS 18"	EACH	2	2	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100	
* 63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	37.5	37.5	
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	25	25	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	86	86	
63500105	DELINEATORS	EACH	2	2	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	8	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	4	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	35	35	
70300220	TEMPORARY PAVEMENT MARKING -LINE 4"	FOOT	3054	3054	
70300280	TEMPORARY PAVEMENT MARKING -LINE 24"	FOOT	20	20	
70301000	WORKZONE PAVEMENT MARKING REMOVAL	SQ FT	1070	1070	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	587.5	587.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5	
* 78001110	PAINT PAVEMENT MARKING LINE - 4"	FOOT	1717	1717	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	11	11	

* SPECIALTY ITEMS

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cd\pw_work\PWIDOT\HENSONKE\dms34329\d1801orv.dgn		DRAWN -	REVISED -			599	103MFT-T	ROCK ISLAND	55	4	
		CHECKED -	REVISED -			CONTRACT NO. 64737					
		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO
						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY X028-2A	
				80% FED	20% STATE
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	4		4
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2		2
78300105	PAVEMENT MARKING REMOVAL	FOOT	1464		1464
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11		11
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	64		64
* C2001748	^{SHRUB,} CORNUS SERICEA CARDINAL (CARDINAL REDOSIER DOGWOOD), 4' HEIGHT, BALLED AND BURLAPPED	EACH	24		24
X0323988	TEMPORARY SOIL RETENSION SYSTEM	SQ FT	485		485
X0712400	TEMPORARY PAVEMENT	SQ YD	414		414
X0919000	TEMPORARY PAVEMENT REMOVAL	SQ YD	414		414
Z0005400	BREAKER RUN CRUSHED STONE	TON	74		74
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4		4
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2

* SPECIALTY ITEMS

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599 (IL 92)	103MFT-T	Rock Island	55	6
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64737				

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. 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.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the 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. 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 existing hot-mix asphalt on private and commercial entrances shall be bladed off or milled and disposed of outside the project limits. This could be the entire entrance or tapered at the end depending on if the mainline is resurfaced or milled and resurfaced. The cost of the blading, milling, rolling, and disposal is included in the contract unit price for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 58-22	PG 58-22
Design Air Voids	4.0 @ N50	4.0 @ N50	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5	IL 9.5 or 12.5	BAM
Friction Aggregate	C	N/A	C	N/A
20 Year ESAL	0.4	0.4	N/A	N/A

The Contractor will be required to furnish 140 mm (5 1/2") high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 150 mm (6") inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

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 LEVELING BINDER (MACHINE METHOD) of the type specified.

The new number for this structure will be 081-1116.

The old number for this structure was 081-1050.

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to Dave Lippert, Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

- District 2 District Engineer (1)
- Fabricator (1)
- Contractor (2)
- Resident Engineer (2)
- District 2 Bureau of Materials (2)

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.

A Precast Box Culvert is not an option on the project due to soil conditions.

The Contractor shall remove all entrance culverts in condition for reuse which are not to be left in place. They shall be cleaned and stored along the right of way as directed. In no case shall they be roughly handled or shoved by heavy machinery. Unusable material shall be disposed of by the Contractor at his expense. Cost of the work to be included in the contract unit price for EARTH EXCAVATION.

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

Connecting bands for corrugated metal pipes shall be metal and shall be coated with the same material as the pipe sections. The connecting bands shall be a minimum of 18" wide.

If, during the grinding or resurfacing operations, the existing mailboxes become a hindrance, the Contractor shall be required to carefully remove and reinstall the mailboxes as directed by the Engineer. This work shall be included in the contract unit price for the INCIDENTAL HOT-MIX ASPHALT SURFACING.

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Earth Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

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.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
2. All non-freeway arrows shall be the large size.
3. 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.

Program #5
(Arch. Size)
Enlarge
200%
Enlarge 107%

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599 (IL 92)	103MFT-T	Rock Island	55	7
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64737				

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.

The temporary concrete barrier shall be anchored to the pavement with 6 anchors per section at the following locations:

- Rt. Sta. 995+39 to Sta. 997+26
- Rt. Sta. 995+09 to Sta. 996+22

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.

Aggregate Base Course, Type B, is provided in the plan quantities and shall be used only as needed when directed by the Engineer.

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:

- AT&T
- MidAmerican Energy Co.

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 Contractor shall use a narrow impact attenuator at the following locations:

- Stage 2 – Sta. 997+88.96 Lt.
- Stage 2 – Sta. 995+09.78
- Stage 3 – Sta. 998+64.01 Rt.
- Stage 2 – Sta. 996+22.28

On the project please plant the following:

- 12 Swamp White Oak
- 24 Cardinal Redosier Dogwood

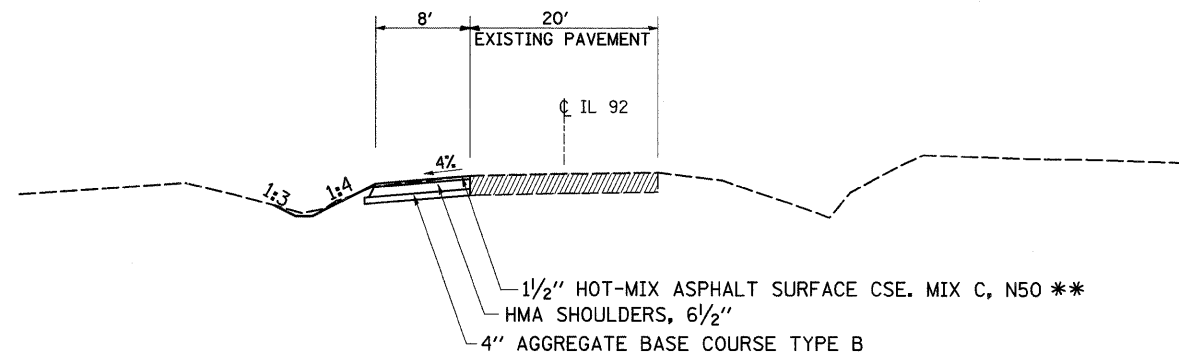
On Airport Road in Milan between the Milan Beltway and Case Creek on the north side of the road in our wetland site:

- 52 Swamp White Oak

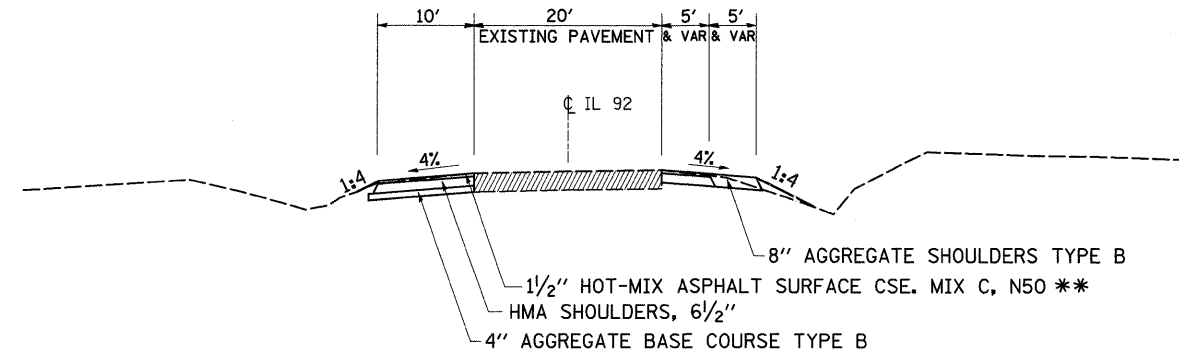
Program #5
(Arch. Size)
Enlarge
200%
Enlarge 107%

TYPICAL SECTIONS

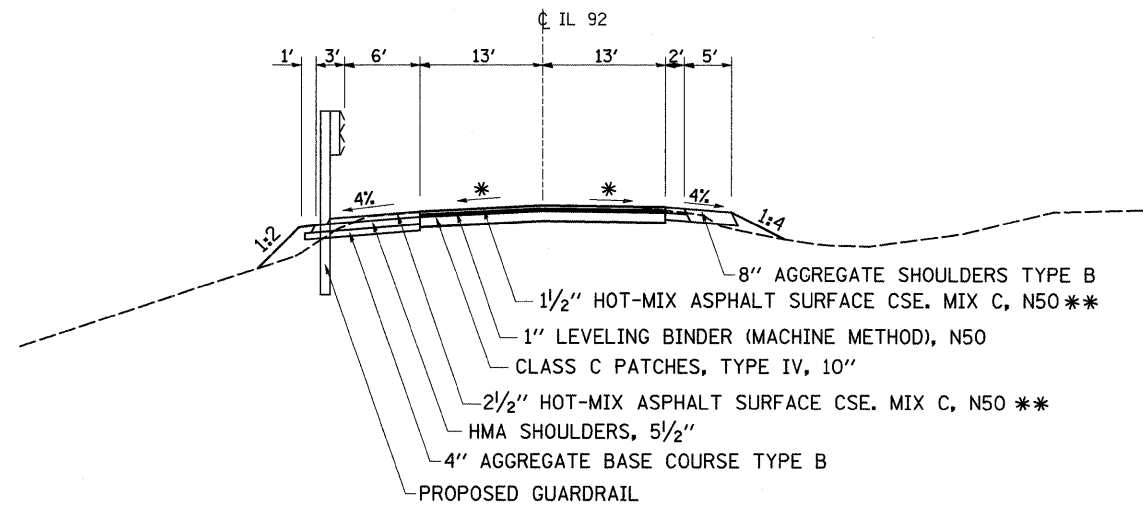
STA. 993+75 TO STA. 994+47



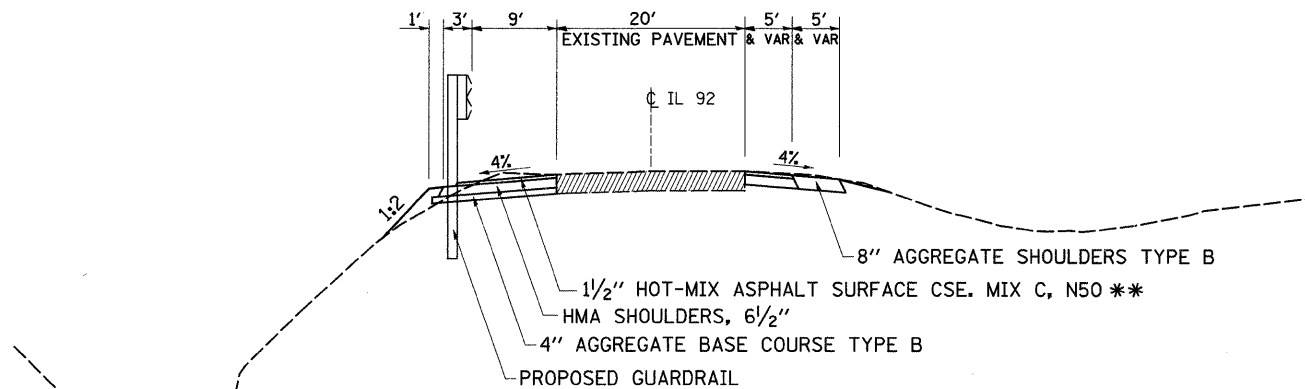
STA. 994+47 TO STA. 995+67



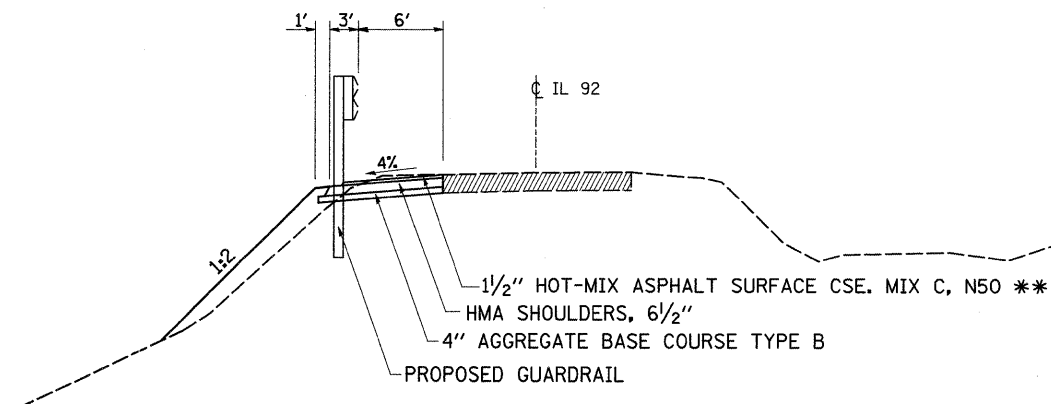
STA. 995+67 TO STA. 997+02



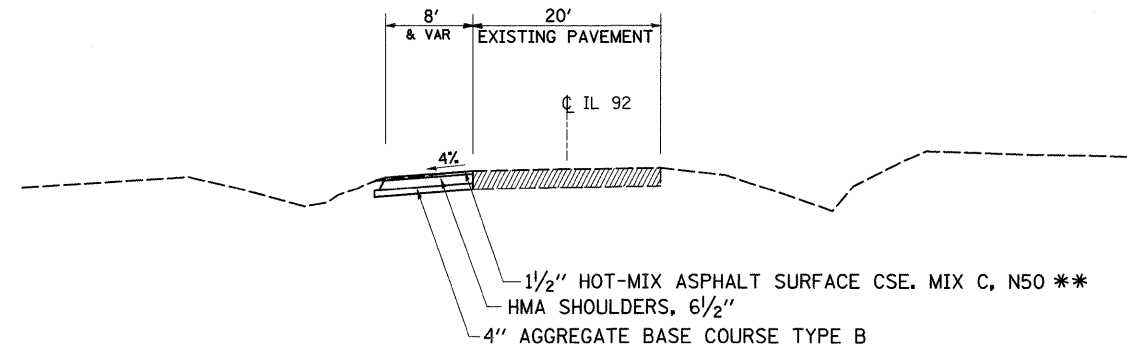
STA. 997+02 TO STA. 997+59



STA. 997+59 TO STA. 998+43.50



STA. 998+43.50 TO STA. 999+20



* MATCH EXISTING MAINLINE SLOPE
 ** 112 LB/SQ YD IN

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -
c:\pwork\pwork\hensonke\dms34329\di001.tpdgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Wed Dec 03 14:27:21 2008		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

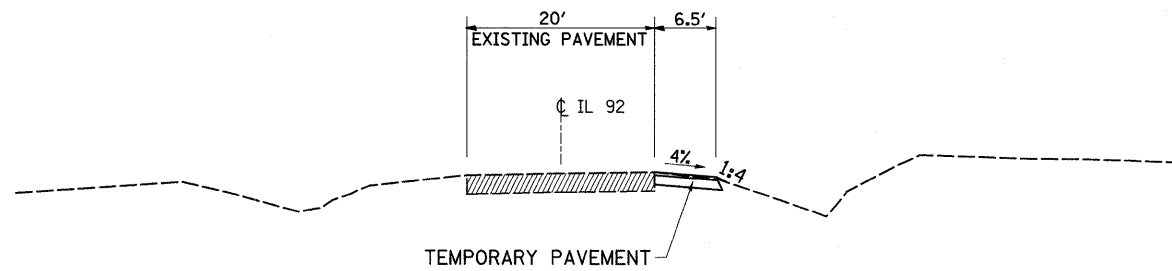
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	8
CONTRACT NO. 64737				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGING TYPICAL SECTIONS

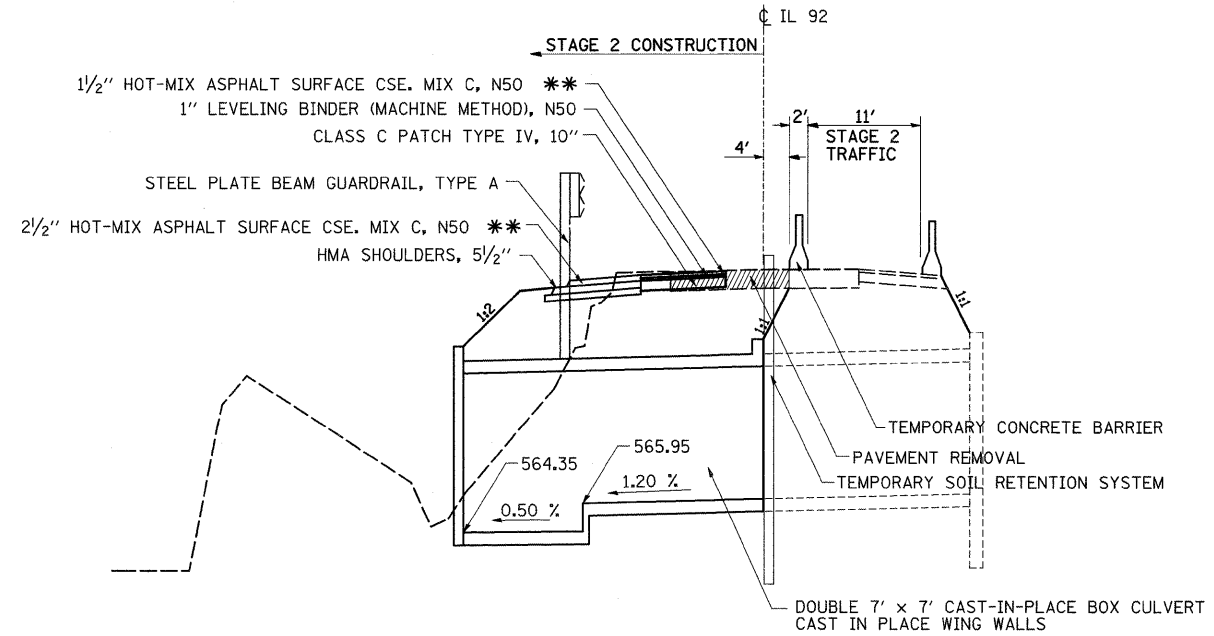
STAGE 1

STA. 994+41 TO STA. 995+72



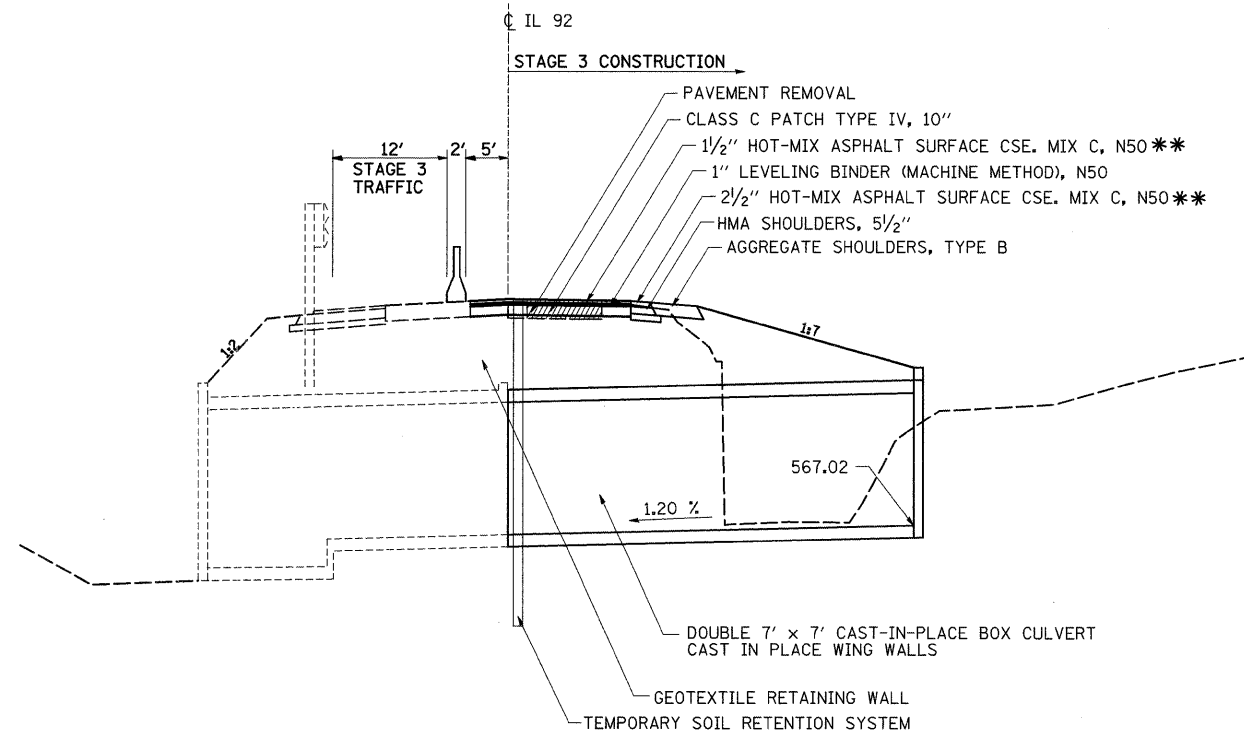
STAGE 2

STA. 995+64 TO STA. 997+02



STAGE 3

STA. 995+64 TO STA. 997+02



* MATCH EXISTING MAINLINE SLOPE
 ** 112 LB/SQ YD IN

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING TYPICAL SECTION				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\hensonke\dms34329\d1801typ.dgn	DRAWN -	REVISIED -	599						103MFT-T	ROCK ISLAND	55	9	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISIED -	CONTRACT NO. 64737										
PLOT DATE = Wed Dec 03 14:27:21 2008	DATE -	REVISIED -	SCALE:		SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

20100500	TREE REMOVAL, ACRES									
	ACRES		LOCATION							REMARKS
	0.19	LT/RT	995 + 11	TO		997 + 82				
	0.19	TOTAL								

20300100	CHANNEL EXCAVATION									
	CU_YD		LOCATION							REMARKS
	109	RT. STA.	995 + 38	TO		996 + 2				
	109	TOTAL								

25100630	EROSION CONTROL BLANKET									
	SD_YD		LOCATION							REMARKS
	125	RT. STA.	994 + 51	TO		995 + 31				
	263	RT. STA.	996 + 67	TO		997 + 77				
	388	TOTAL								

28000300	TEMPORARY DITCH CHECKS									
	EACH		LOCATION							REMARKS
	1	LT. STA.	994 + 92							
	1	TOTAL								

28000400	PERIMETER EROSION BARRIER									
	FOOT		LOCATION							REMARKS
	88.0	LT. STA.	995 + 75	TO		996 + 60				
	54	LT. STA.	997 + 34	TO		997 + 88				
	142	TOTAL								

28000500	INLET AND PIPE PROTECTION									
	EACH		LOCATION							REMARKS
	1	LT. STA.	994 + 9							
	1	LT. STA.	995 + 31							
	1	RT. STA.	994 + 80							
	1	RT. STA.	997 + 4							
	4	TOTAL								

28100107	STONE RIPRAP, CLASS A4									
	SD_YD		LOCATION							REMARKS
	130.4	RT. STA.	995 + 22	TO		996 + 7				South Channel slopes
	94.2	RT. STA.	996 + 50	TO		997 + 23				North Channel slopes
	225	TOTAL								

28200200	FILTER FABRIC									
	SD_YD		LOCATION							REMARKS
	130.4	RT. STA.	995 + 22	TO		996 + 7				South Channel slopes
	94.2	RT. STA.	996 + 50	TO		997 + 23				North Channel slopes
	225	TOTAL								

44201359	CLASS C PATCHES, TYPE IV, 10 INCH									
	SD_YD		LOCATION							REMARKS
	399	RT. STA.	995 + 64	TO		997 + 2				Culvert at Sta. 996+33.55
	399	TOTAL								

50100300	REMOVAL OF EXISTING STRUCTURES NO.1									
	EACH		LOCATION							REMARKS
	1	LT/RT	996 + 33							Double 7x7 Concrete Box Culvert
	1	TOTAL								

50200400	ROCK EXCAVATION FOR STRUCTURES									
	CU_YD		LOCATION							REMARKS
	113	LT/RT	996 + 33							Double 7x7 Concrete Box Culvert
	113	TOTAL								

50800105	REINFORCEMENT BARS									
	EACH		LOCATION							REMARKS
	47260		996 + 33							Double 7x7 Concrete Box Culvert
	47260	TOTAL								

50800205	REINFORCEMENT BARS, EPOXY COATED									
	EACH		LOCATION							REMARKS
	630		996 + 33							Double 7x7 Concrete Box Culvert
	630	TOTAL								

50800515	BAR SPLICERS									
	EACH		LOCATION							REMARKS
	88		996 + 33							Double 7x7 Concrete Box Culvert
	88	TOTAL								

51500100	NAME PLATES									
	EACH		LOCATION							REMARKS
	1	LT/RT	996 + 33							Double 7x7 Concrete Box Culvert
	1	TOTAL								

54003000	CONCRETE BOX CULVERTS									
	CU_YD		LOCATION							REMARKS
	215.2		996 + 33							Double 7x7 Concrete Box Culvert
	215.2	TOTAL								

54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"									
	FOOT		LOCATION							REMARKS
	42	RT	994 + 9	TO		994 + 51				PE - Pipe set at 29.5' LT
	42	TOTAL								

54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"									
	FOOT		LOCATION							REMARKS
	116	RT	994 + 80	TO		995 + 96				FE - Pipe set at 28' RT
	94	RT	996 + 10	TO		997 + 4				PE - pipe set at 33' RT
	210	TOTAL								

SCHEDULE OF QUANTITIES

542D1060	PIPE CULVERTS, CLASS D, TYPE 2 15"				REMARK'S
FOOT	LOCATION				
122	RT	995 + 31	TO	996 + 53	PE - Pipe set at 29.5' LT
122	TOTAL				

54213450	END SECTIONS, 15"				REMARK'S
EACH	LOCATION				
1	RT	994 + 9			PE
1	RT	994 + 51			PE
1	RT	995 + 31			PE
3	TOTAL				

54213453	END SECTIONS, 18"				REMARK'S
EACH	LOCATION				
1	RT	994 + 80			FE
1	RT	997 + 4			PE
2	TOTAL				

63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A				REMARK'S
FOOT	LOCATION				
100	RT. STA.	996 + 90	TO	997 + 90	
100	TOTAL				

63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B				REMARK'S
FOOT	LOCATION				
12.5	RT. STA.	996 + 28	TO	996 + 40	
25	RT. STA.	996 + 65	TO	996 + 90	
37.5	TOTAL				

63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES				REMARK'S
FOOT	LOCATION				
25	RT. STA.	996 + 40	TO	996 + 65	
25	TOTAL				

63100167	TRAFFIC BARRIQR TERMINAL, TYPE 1 (SPECIAL) TANGENT				REMARK'S
EACH	LOCATION				
1	RT. STA.	995 + 78	TO	996 + 28	
1	RT. STA.	997 + 90	TO	998 + 40	
2	TOTAL				

63200310	GUARDRAIL REMOVAL				REMARK'S
FOOT	LOCATION				
86	LT. STA.	996 + 40	TO	997 + 26	
86	TOTAL				

63500105	DELINEATORS				REMARK'S
EACH	LOCATION				
2	LT/RT	996 + 34			Double 7' x 7' Box Culvert
2	TOTAL				

66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS				REMARK'S
EACH	LOCATION				
1		994 + 67	@	40' RT	
1		995 + 0	@	75' RT	
1		995 + 75	@	35' LT	
1		996 + 25	@	65' LT	
1		996 + 30	@	75' RT	
1		996 + 55	@	38.31' RT	
1		997 + 25	@	65' LT	
1		997 + 90	@	35' LT	
8	TOTAL				

66700305	PERMANENT SURVEY MARKERS, TYPE II				REMARK'S
EACH	LOCATION				
2	LT/RT	996 + 34			Location determined by District office - Chief of Surveys
2	TOTAL				

70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS				REMARK'S
EACH	LOCATION				
1	RT/ LT	996 + 34			Stage #2 & 3 - Box Culvert at Sta. 996+33.55
1	TOTAL				

70300100	SHORT-TERM PAVEMENT MARKING				REMARK'S
FOOT	LOCATION				
35	CL. STA.	995 + 64	TO	997 + 2	Centerline skip dashes
35	TOTAL				

70300220	TEMPORARY PAVEMENT MARKING - LINE 4"				REMARK'S
FOOT	LOCATION				
Stage 2					
443	RT. STA.	992 + 57	TO	997 + 0	Stage 2 outside edge line
321	RT. STA.	997 + 0	TO	1000 + 21	Stage 2 outside edge line
443	RT. STA.	992 + 57	TO	997 + 0	Stage 2 inside edge line
321	RT. STA.	997 + 0	TO	999 + 83	Stage 2 inside edge line
Stage 3					
443	RT. STA.	992 + 57	TO	997 + 0	Stage 3 outside edge line
321	RT. STA.	997 + 0	TO	1000 + 21	Stage 3 outside edge line
443	RT. STA.	992 + 57	TO	997 + 0	Stage 3 inside edge line
321	RT. STA.	997 + 0	TO	1000 + 21	Stage 3 inside edge line
3054	TOTAL				

70300280	TEMPORARY PAVEMENT MARKING - LINE 24"				REMARK'S
FOOT	LOCATION				
Stage 2 & 3					
10	RT. STA.	992 + 57			Stop Bar
10	LT. STA.	1000 + 21			Stop Bar
20	TOTAL				

SCHEDULE OF QUANTITIES

70301000 WORKZONE PAVEMENT MARKING REMOVAL

SO_FT	LOCATION	REMARKS
Stage 2		
148	RT. STA. 992 + 57 TO	997 + 0 Stage 2 outside edge line
107	RT. STA. 997 + 0 TO	999 + 83 Stage 2 outside edge line
148	RT. STA. 992 + 57 TO	997 + 0 Stage 2 inside edge line
107	RT. STA. 997 + 0 TO	999 + 83 Stage 2 inside edge line
Stage 3		
148	RT. STA. 992 + 57 TO	997 + 0 Stage 3 outside edge line
107	RT. STA. 997 + 0 TO	999 + 83 Stage 3 outside edge line
148	RT. STA. 992 + 57 TO	997 + 0 Stage 3 inside edge line
107	RT. STA. 997 + 0 TO	999 + 83 Stage 3 inside edge line
20	RT. STA. 992 + 57	Stop Bar
20	LT. STA. 1000 + 21	Stop Bar
Short term		
12	CL STA. 995 + 64 TO	997 + 2 Short term pavement
1070	TOTAL	

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	REMARKS
Stage 2		
62.5	RT/LT 994 + 77 TO	995 + 39 Taper - Stage 2
112.5	RT 995 + 10 TO	996 + 22 Outside edge barrier wall - Stage 2
187.5	LT 995 + 39 TO	997 + 27 Tangent Section - Stage 2
75	LT/RT 997 + 27 TO	997 + 89 Taper - Stage 2
75	RT 994 + 2 TO	994 + 77 Taper - Stage 3
75	RT 997 + 89 TO	998 + 64 Taper - Stage 3
587.5	TOTAL	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	REMARKS
stage 3		
62.5	LT 994 + 77 TO	995 + 39 Taper Section - Stage 3
187.5	LT 995 + 39 TO	997 + 27 Tangent Section - Stage 3
62.5	LT/RT 997 + 27 TO	997 + 89 Taper - Stage 3
312.5	TOTAL	

78001110 PAINT PAVEMENT MARKING LINE - 4"

FOOT	LOCATION	REMARKS
763	LT 992 + 57 TO	1000 + 21 Edge line
763	RT 992 + 57 TO	1000 + 21 Edge line
191	CL 992 + 57 TO	1000 + 21 Skip dashes
1717	TOTAL	

78100100 RAISED REFLECTIVE PAVEMENT MARKERS

EACH	LOCATION	REMARKS
11	CL 992 + 57 TO	1000 + 21
11	TOTAL	

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION	REMARKS
4	RT. STA. 996 + 31 TO	997 + 93 Minimum of 4 required
4	TOTAL	

78201000 TERMINAL MARKERS (DIRECT APPLIED)

EACH	LOCATION	REMARKS
1	RT. STA. 995 + 81	End of Type 1 (Special) Tangent
1	RT. STA. 998 + 43	End of Type 1 (Special) Tangent
2	TOTAL	

78300105 PAVEMENT MARKING REMOVAL

FOOT	LOCATION	REMARKS
Stage 2		
243	CL 992 + 57 TO	995 + 0 Skips - Stage 2
445	LT 994 + 10 TO	998 + 55 Edge line - Stage 2
271	CL 997 + 50 TO	1000 + 21 Skips - Stage 2
Stage 3		
505	LT 993 + 80 TO	998 + 85 Edge line - Stage 3
1464	TOTAL	

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION	REMARKS
11	CL 992 + 57 TO	1000 + 21
11	TOTAL	

A2006514 TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1 3/4" CALIPER, BALLED AND BURLAPPED

EACH	LOCATION	REMARKS
64	LOCATION TO BE DETERMINED BY LANDSCAPE ARCHITECT	
64	TOTAL	

C2001748 SHRUB, CORNUS SERICEA CARDINAL (CARDINAL REDOSIER DOGWOOD), 4' HEIGHT, BALLED AND BURLAPPED

EACH	LOCATION	REMARKS
24	LOCATION TO BE DETERMINED BY LANDSCAPE ARCHITECT	
24	TOTAL	

X0323988 TEMPORARY SOIL RETENSION SYSTEM

SO_FT	LOCATION	REMARKS
485	RT 996 + 34	Double 7' x 7' Box Culvert
485	TOTAL	

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION	REMARKS
1	LT. STA. 996 + 77	Stage 2 - Narrow Setup
1	LT. STA. 997 + 89	Stage 2
1	LT. STA. 996 + 10	Stage 2 - Narrow Setup
1	LT. STA. 996 + 22	Stage 2 - Narrow Setup
4	TOTAL	

Z0030335 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION	REMARKS
1	RT. STA. 994 + 2	Stage 3 - Narrow Setup
1	RT. STA. 998 + 68	Stage 3
2	TOTAL	

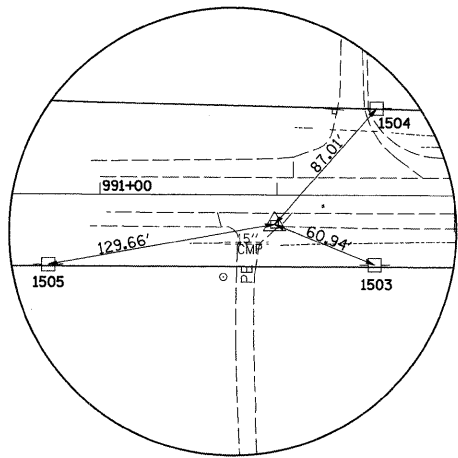
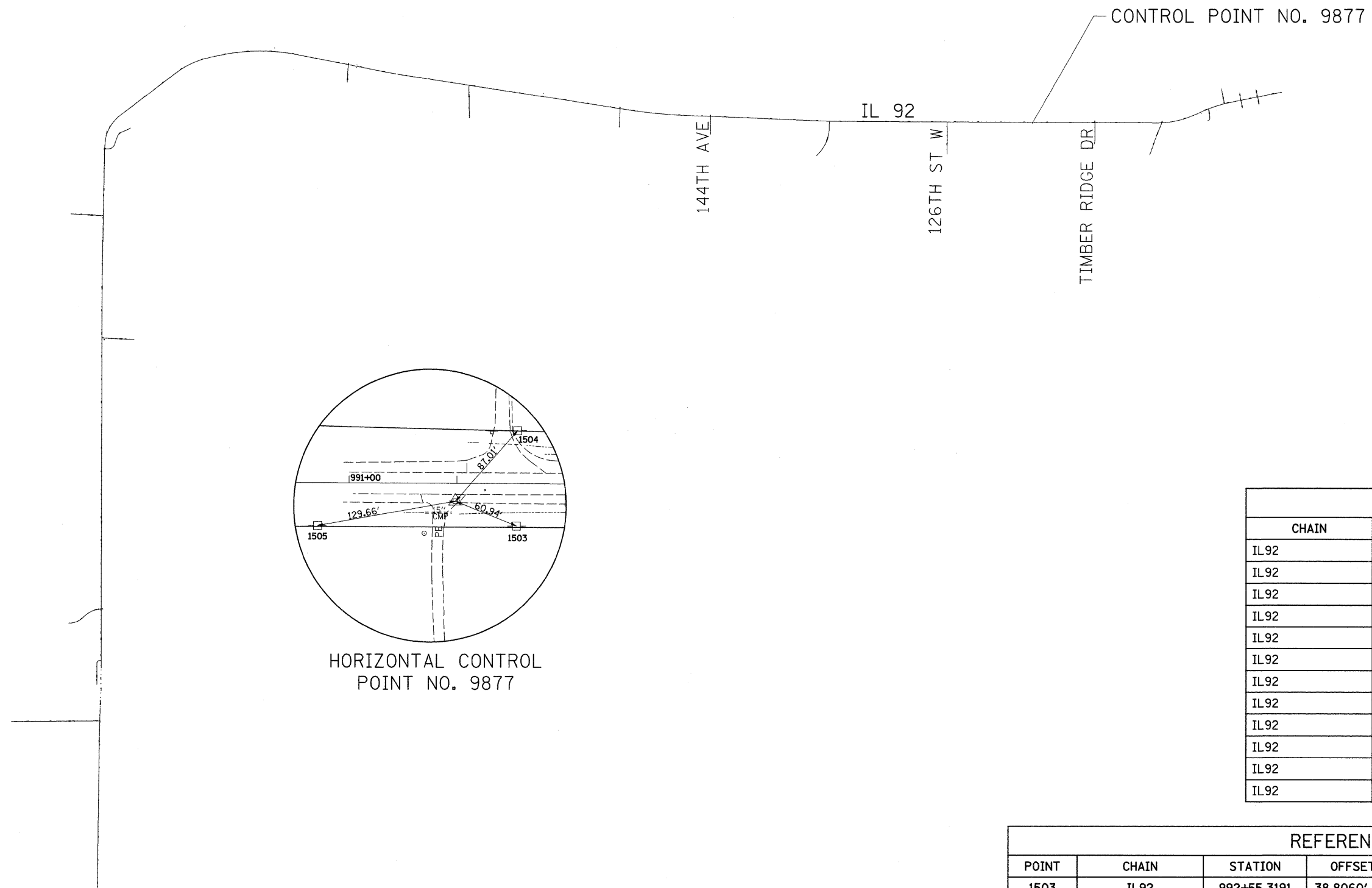
BITUMINOUS SCHEDULE

Location	Remarks	Length	Proposed Surface		35101400	48101200	40800950	44000200	42300300	48203019	48203023	40600625	40603210	Z0005400	40600990	X0712400	X0919000
			Width	Sq. Yd.	Aggregate Base Course, Type B	Aggregate Shoulders Type B	Incidental Hot-Mix Asphalt Surfacing	Driveway Pavement Removal	PCC Driveway Pavt 'T'	Hot-Mix Asphalt Shoulders, 5.5"	Hot-Mix Asphalt Shoulders, 6.5"	Leveling Binder (machine Method) N50	Hot-Mix Asphalt Surface Cse, Mix "C", N50	Breaker Run Crushed Stone	Temporary Ramp	Temporary Pavement	Temporary Pavement Removal
JL 92																	
Lt & Rt Sta 995 + 64 - 997 + 2	Main Line over Patch	138	26	399									22.3	33.5			
Lt & Rt Sta 996 + 34	Double 7' x 7' Box Culvert	62	19.75	137										74			
Shoulders																	
Lt Sta 993 + 75 - 994 + 47	Main Line	72	8	64	9						64						5.4
Lt Sta 994 + 47 - 995 + 64	Main Line	117	10	130	33						130						10.9
Lt Sta 995 + 64 - 996 + 12	Main Line	48	VAR	53	10					53							7.4
Lt Sta 996 + 12 - 997 + 2	Main Line	90	9	90	23					90							12.6
Lt Sta 997 + 2 - 998 + 23	Main Line	121	12	161	40						161						13.5
Lt Sta 998 + 23 - 998 + 84	Main Line	61	VAR	80	20						80						6.7
Lt Sta 998 + 84 - 999 + 20	Main Line	36	8	32	12						32						2.7
Rt Sta 994 + 40 - 994 + 78	Main Line	38	VAR	15	5	10					15						1.3
Rt Sta 994 + 78 - 995 + 64	Main Line	86	5	48	13						48						4.0
Rt Sta 995 + 27 - 996 + 54	Main Line	127	5	71		32											
Rt Sta 995 + 64 - 997 + 2	Main Line	139	2	31	10												4.3
Rt Sta 997 + 2 - 997 + 59	Main Line	57	VAR	21	7	15					21						1.7
Staging																	
Rt Sta 994 + 0 - 997 + 0	Main Line - Stage 1	300	9	300													300
Rt Sta 997 + 0 - 998 + 58	Main Line - Stage 1	159	6.5	114													114
Rt Sta 995 + 67 - 995 + 75	Temp. Ramp	8	30	28													27.8
Rt Sta 996 + 94 - 997 + 2	Temp. Ramp	8	30	28													27.8
Entrance																	
Lt - PE 994 + 30	Concrete		12	47				47	47								
Rt - PE 995 + 5	Aggregate		24	91	42												
Lt - PE 995 + 51	HMA		12	32	17		4										
Rt - PE 996 + 70	HMA		12	56	28		6										
TOTALS																	
					260	57	10	47	47	174	550	22	104	74	56	414	414

EARTHWORK SCHEDULE

			20200100	EARTH			EARTHWORK	250001000	25000210	25000310	28000250	20201200		
LOCATION			EARTH	EXCAVATION	EMBANKMENT	BALANCE	SEEDING	SEEDING	SEEDING	TEMPORARY	REMOVAL			
			EXCAVATION	ADJUSTED FOR SHRINKAGE	(FILL)	WASTE (+)	CLASS 1	CLASS 2A	CLASS 4	EROSION CONTROL	AND DISPOSAL OF UNSUITABLE MATERIAL			
			(CU YD)	(CU YD)	(CU YD)	(CU YD)	(ACRE)	(ACRE)	(ACRE)	(POUND)	(CU YD)			
			Mainline (IL 92)	993 + 50	TO 999 + 50	425.6	319.2	254.2	65.0	0.06	0.11	0.02	54.0	45.5
			Streambed	10 + 00	TO 11 + 00	108.8	81.6	48.7	32.9					
			TOTALS			534.4	400.8	302.9	97.9	0.06	0.11	0.02	54.0	45.5

HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL POINT NO. 9877

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL92	1410	1410	1411	1412	1413
IL92	370	370	371	372	373
IL92	380	380	381	382	383
IL92	390	390	391	392	393
IL92	1200	1200	1201	1202	1203
IL92	1210	1210	1211	1212	1213
IL92	1220	1220	1221	1222	1223
IL92	1230	1230	1231	1232	1233
IL92	1240	1240	1241	1242	1243
IL92	1250	1250	1251	1252	1253
IL92	1260	1260	1261	1262	1263
IL92	1270	1270	1271	1272	1273

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
1503	IL92	992+55.3191	38.8060' RT	POWER POLE
1504	IL92	992+55.9954	49.1473' LT	POWER POLE
1505	IL92	990+71.0492	39.1874' RT	POWER POLE

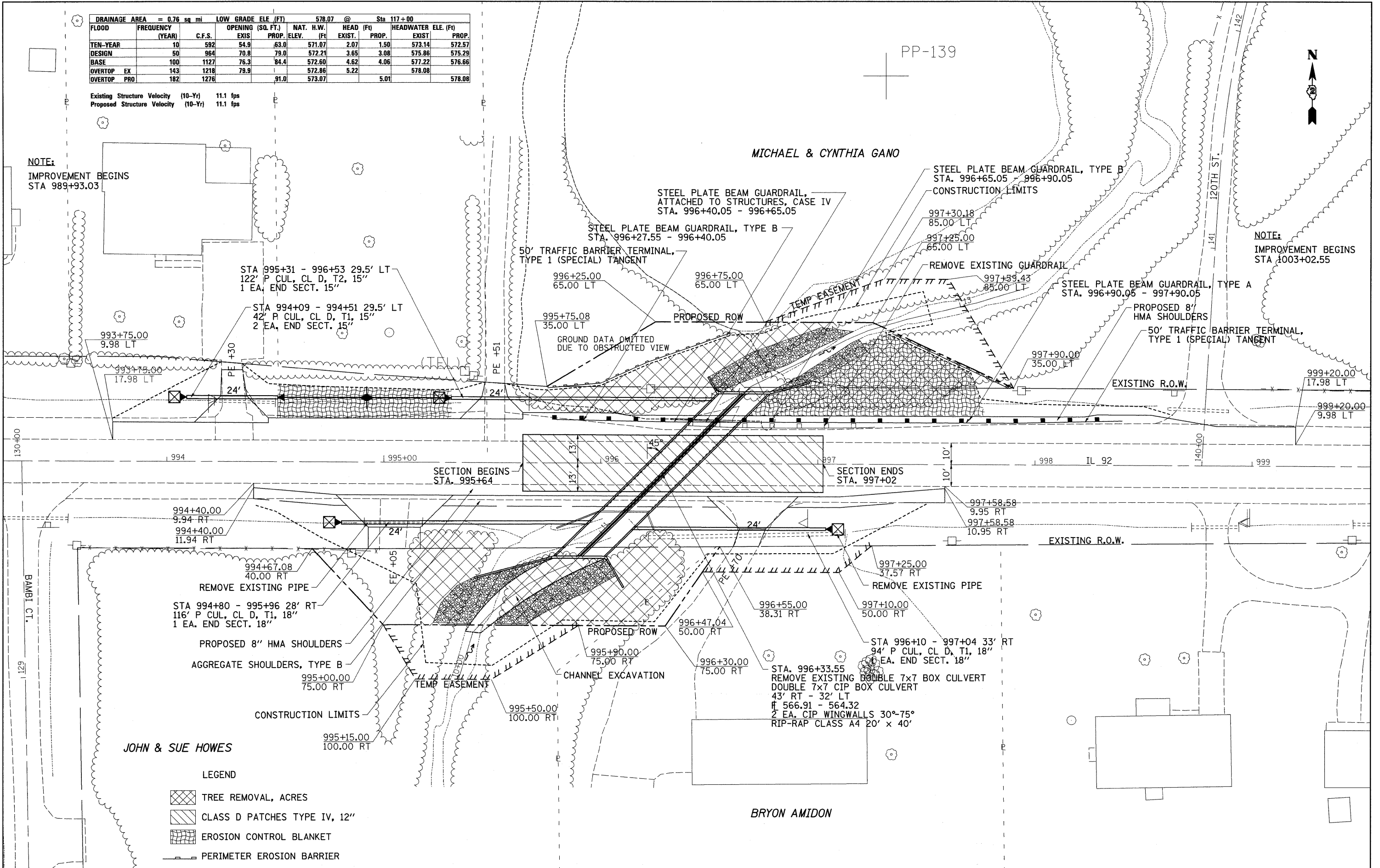
HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
9877	1738077.4530	2140204.8480	581.9610	IL92	991+98.6763	16.3207' RT	PHOTO CONTROL H. & V.

DRAINAGE AREA = 0.76 sq mi		LOW GRADE ELE (FT)		578.07 @ Sta 117+00		
FLOOD	FREQUENCY (YEAR)	C.F.S.	OPENING (SQ. FT.)	NAT. H.W. ELEV. (FT)	HEAD (FT)	HEADWATER ELE. (FT)
TEN-YEAR	10	592	54.9	63.0	571.07	2.07
DESIGN	50	964	70.8	79.0	572.21	3.65
BASE	100	1127	76.3	84.4	572.60	4.62
OVERTOP EX	143	1218	79.9		572.86	5.22
OVERTOP PRO	182	1276		91.0	573.07	5.01
						578.08

Existing Structure Velocity (10-Yr) 11.1 fps
Proposed Structure Velocity (10-Yr) 11.1 fps

NOTE:
IMPROVEMENT BEGINS
STA 989+93.03

NOTE:
IMPROVEMENT BEGINS
STA 1003+02.55



JOHN & SUE HOWES

LEGEND

- TREE REMOVAL, ACRES
- CLASS D PATCHES TYPE IV, 12"
- EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -
c:\pwwork\pwsdot\hensonke\dms34329\d10801.pln.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000 Ft / IN.		CHECKED -	REVISED -
PLOT DATE = Fri Dec 05 11:18:05 2008		DATE -	REVISED -

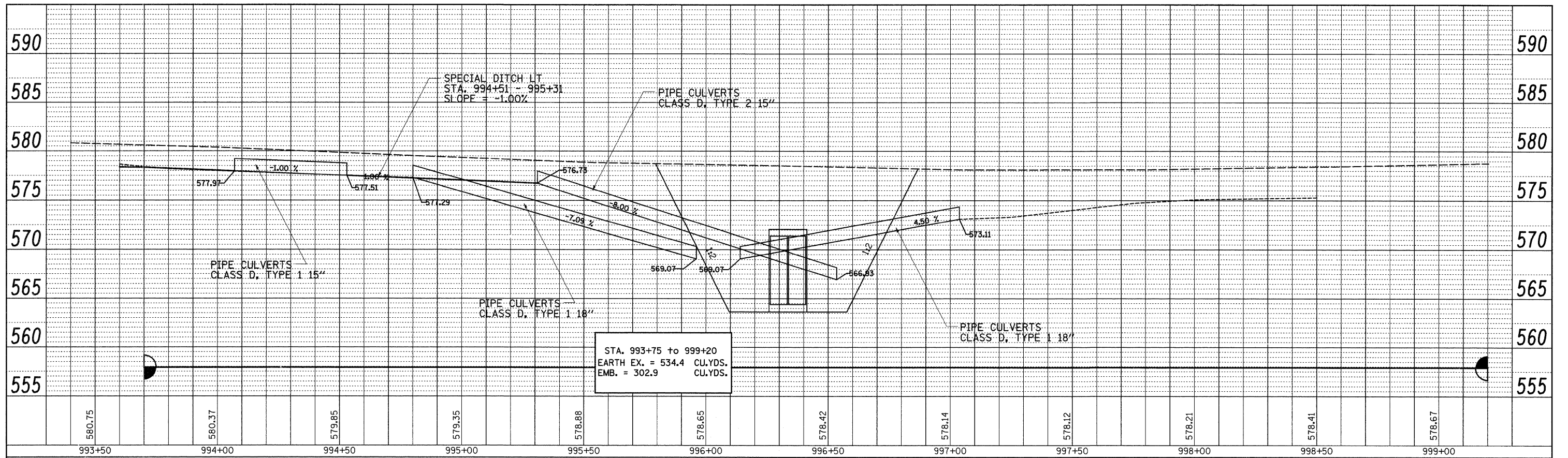
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

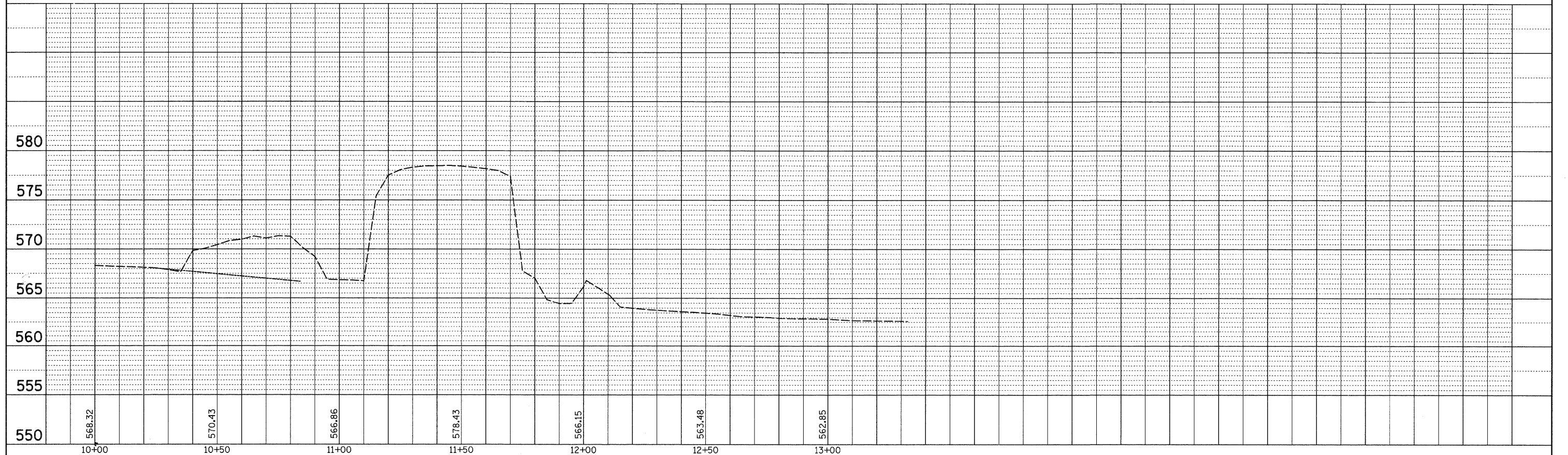
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	17
CONTRACT NO. 64737				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN SURVEYED BY DATE
 PLOTTED BY
 CHECKED BY
 RI, OF WAY CHECKED BY
 NO. CAD FILE NAME

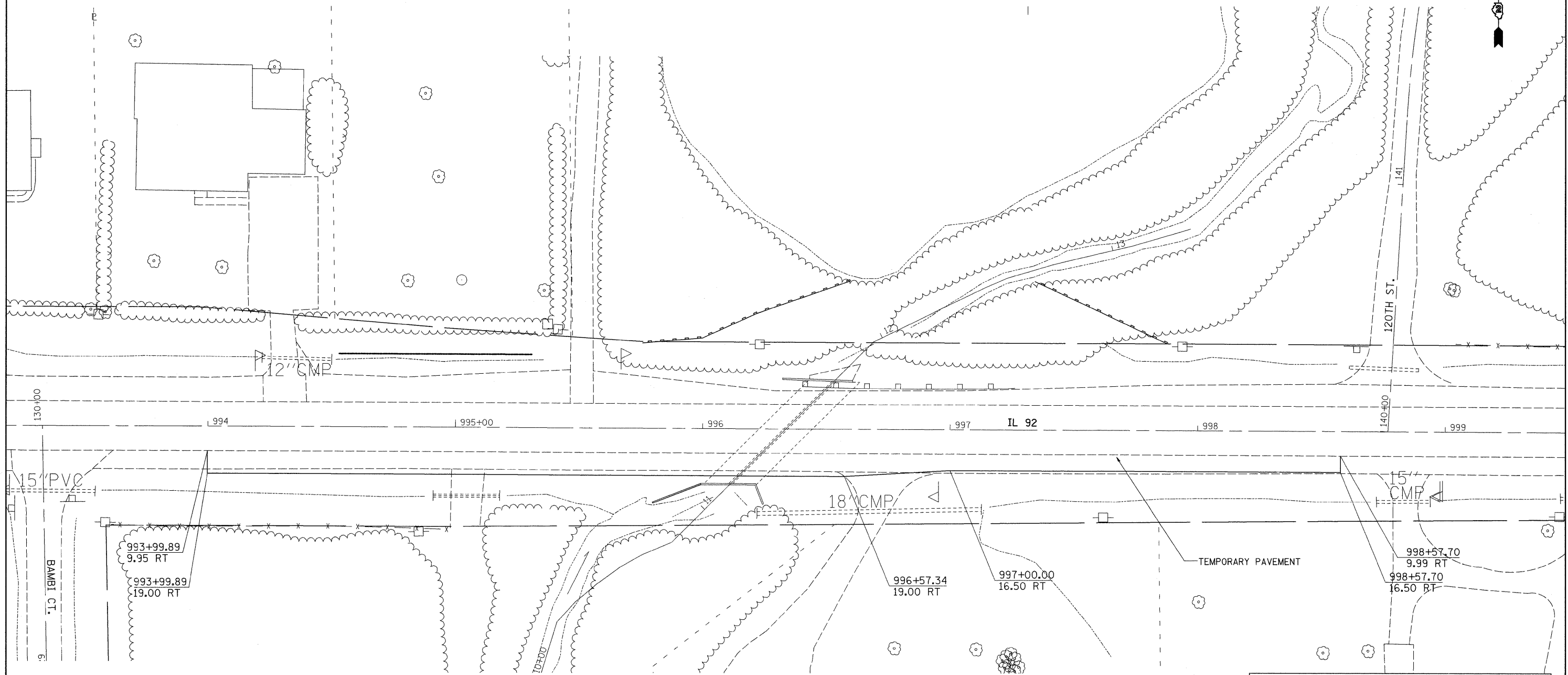


PROFILE SURVEYED BY DATE
 PLOTTED BY
 CHECKED BY
 RI, OF WAY CHECKED BY
 NO. STRUCTURE NOTATIONS CHKD



FILE NAME =	USER NAME = hansonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROFILE SHEET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\p\midot\hansonke\dms34329\dl0806.plt.rdg	PLOT SCALE = 20.0000 ft / IN.	DRAWN -	REVISED -			599	103MFT-T	ROCK ISLAND	55	18	
PLOT DATE = Thu Dec 04 13:59:46 2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64737					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STAGE 1



STAGE 1 NOTES

1. USE STANDARD 701326 FOR SHOULDER WORK.
2. PLACE TEMPORARY SHOULDERS FROM RT STA. 993+99.89 TO RT STA. 998+57.70

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -
cc:\pw_work\pwsdot\hensonke\dms34329\dl0001stg.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ft / IN.	CHECKED -	REVISED -
	PLOT DATE = Thu Dec 04 13:36:17 2008	DATE -	REVISED -

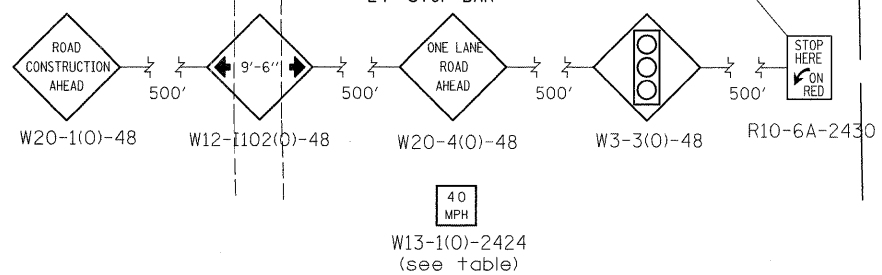
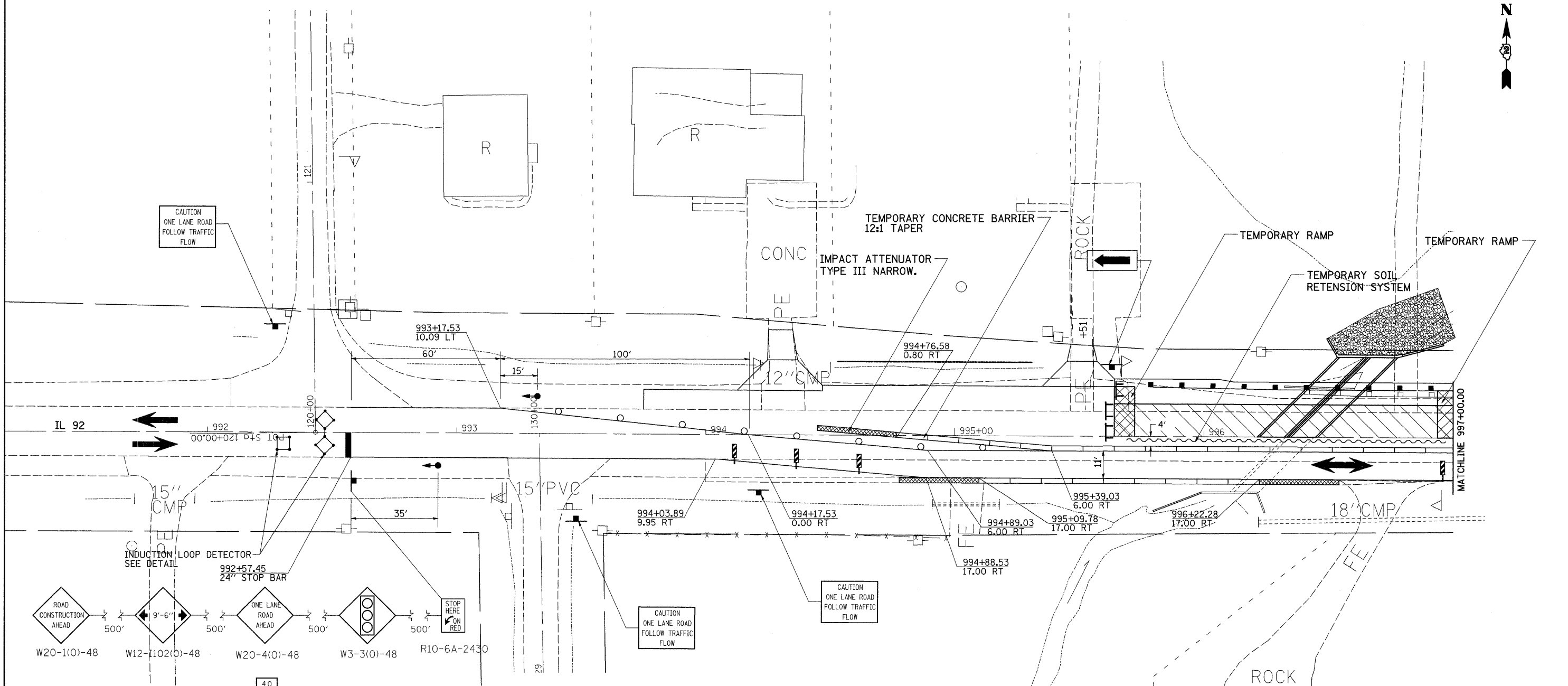
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAIL SHEET

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

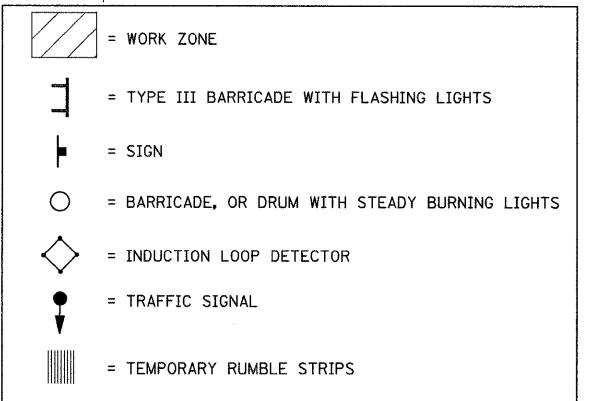
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	19
CONTRACT NO. 64737				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STAGE 2



STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT CULVERT LT TO STAGE CONSTRUCTION LINE.
3. PLACE PROPOSED SHOULDERS LT FROM STA 993+75 TO STA 999+20.
4. PLACE PROPOSED GUARDRAIL LT.
5. GRADE AND SHAPE SLOPES.



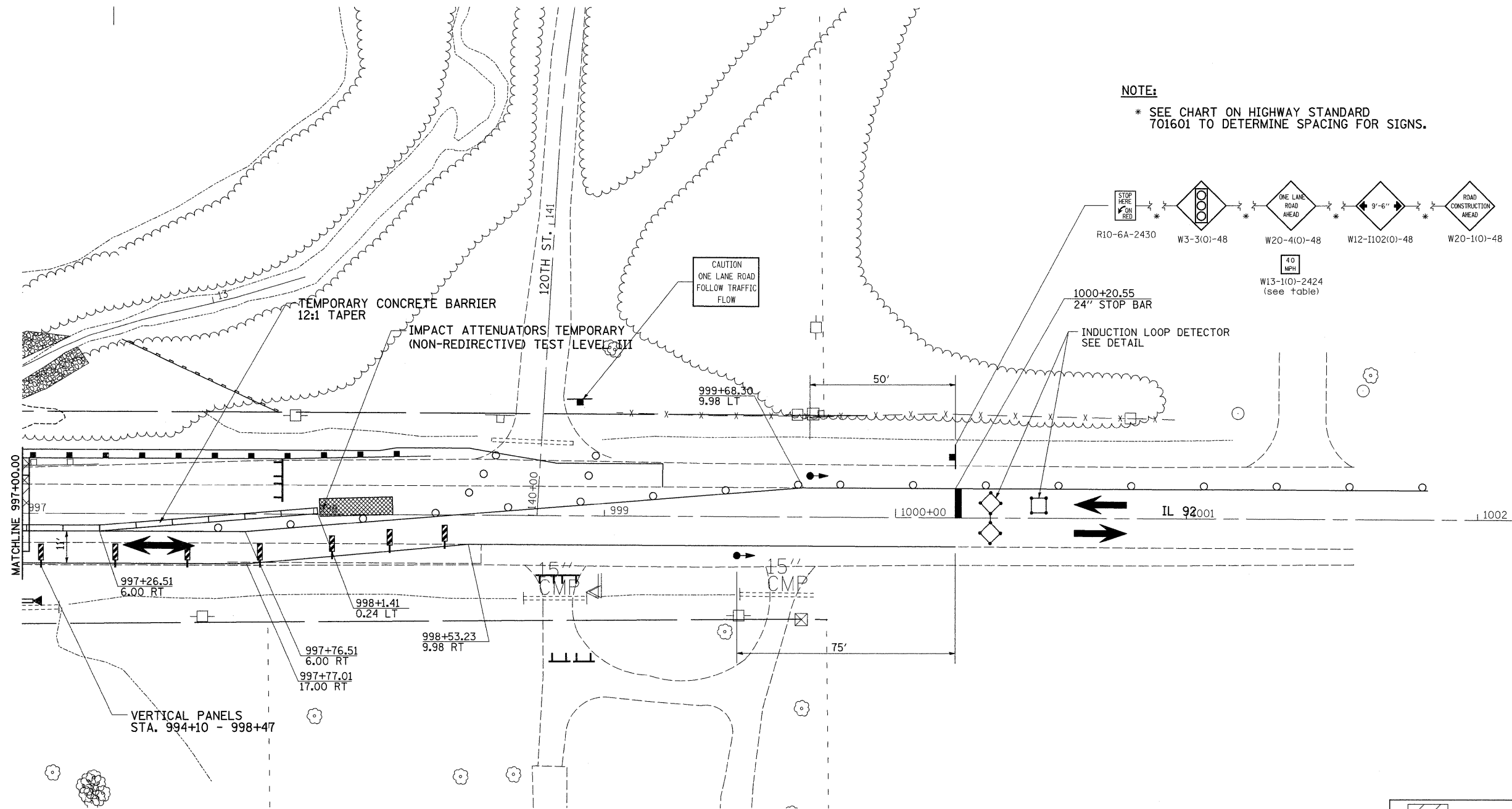
FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL SHEET	F.A.P. RTE. 599	SECTION 103MFT-T	COUNTY ROCK ISLAND	TOTAL SHEETS 55	SHEET NO. 20	
ca\pw_work\pw\dot\hensonke\dms34329\dl0801stg.dgn		DRAWN -	REVISED -			CONTRACT NO. 64737					
	PLOT SCALE = 20.0000 ft / IN.	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	PLOT DATE = Thu Dec 04 13:36:15 2008	DATE -	REVISED -								

STAGE 2



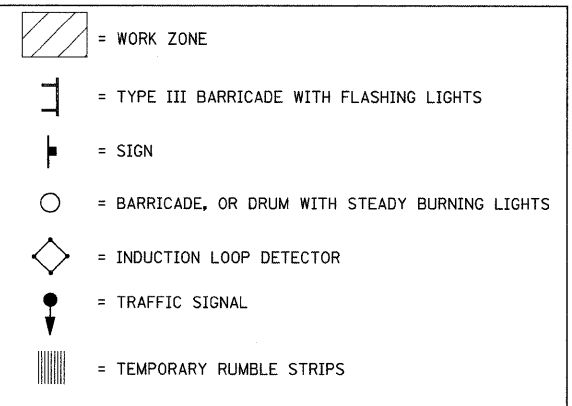
NOTE:

* SEE CHART ON HIGHWAY STANDARD 701601 TO DETERMINE SPACING FOR SIGNS.



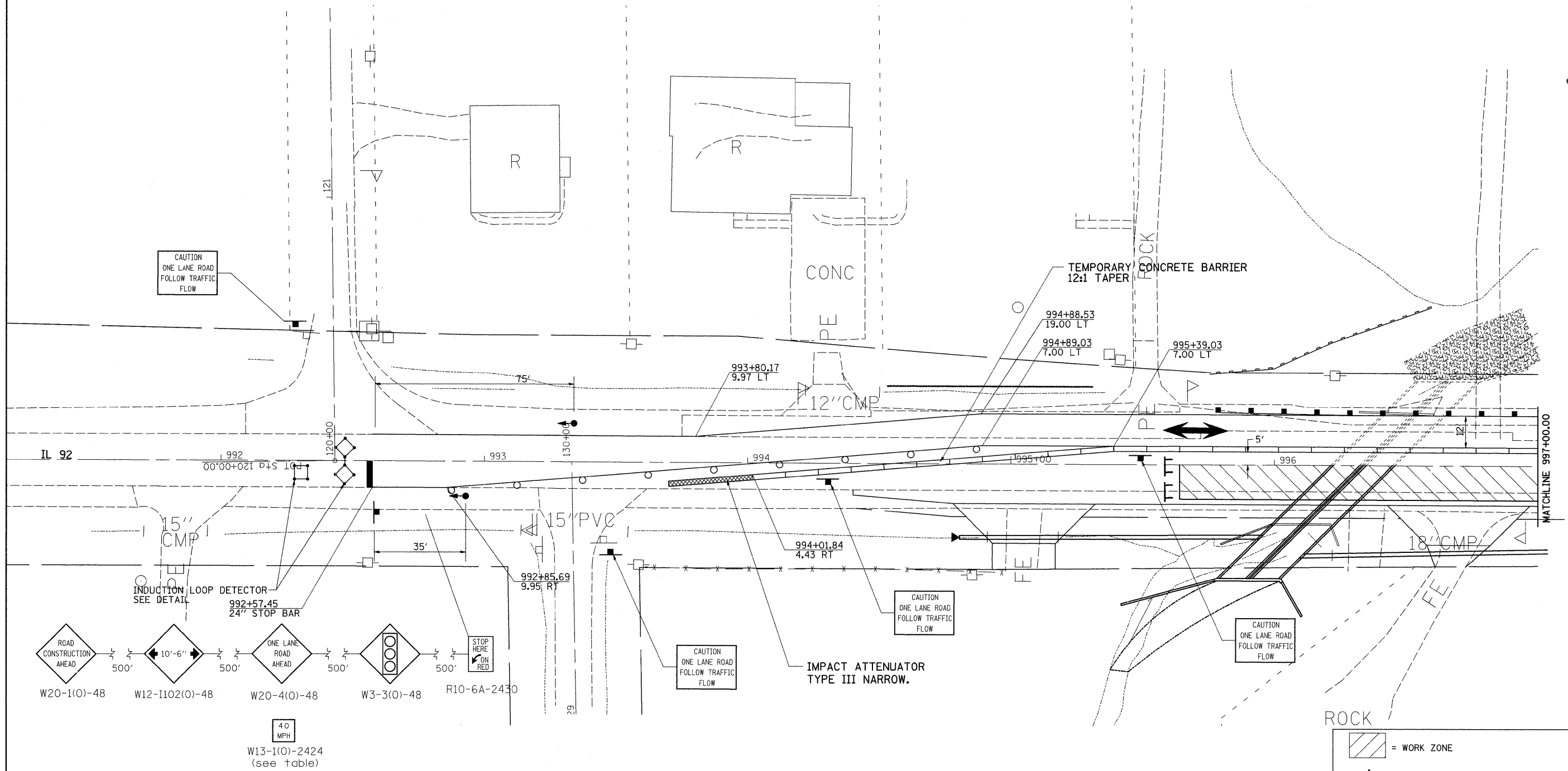
STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT CULVERT LT TO STAGE CONSTRUCTION LINE.
3. PLACE PROPOSED SHOULDERS LT FROM STA 993+75 TO STA 999+20 USING STANDARD 701326.
4. PLACE PROPOSED GUARDRAIL LT.
5. GRADE AND SHAPE SLOPES.



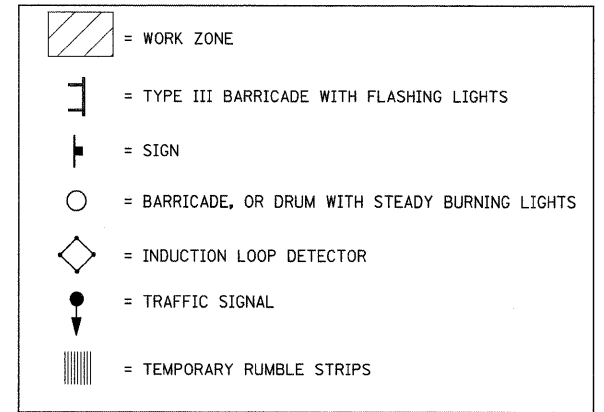
FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL SHEET				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ct\pw_work\pwsdot\hensonke\dms34329\d1001stg.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	599	103MFT-T	ROCK ISLAND	55	21
		PLOT SCALE = 28.0000 ft / IN.	CHECKED -		REVISED -										
		PLOT DATE = Thu Dec 04 13:36:16 2008	DATE -		REVISED -										
											CONTRACT NO. 64737				
											ILLINOIS FED. AID PROJECT				

STAGE 3



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT CULVERT RT TO STAGE CONSTRUCTION LINE.
3. PLACE PROPOSED SHOULDERS RT FROM STA 994+40 TO STA 997+58.58
4. CONSTRUCT FE AND PE ACCORDING TO PLANS.
5. GRADE AND SHAPE SLOPES.



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -
ct\pw_work\pwsdot\hensonke\dms34329\d1801stg.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING DETAIL SHEET

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

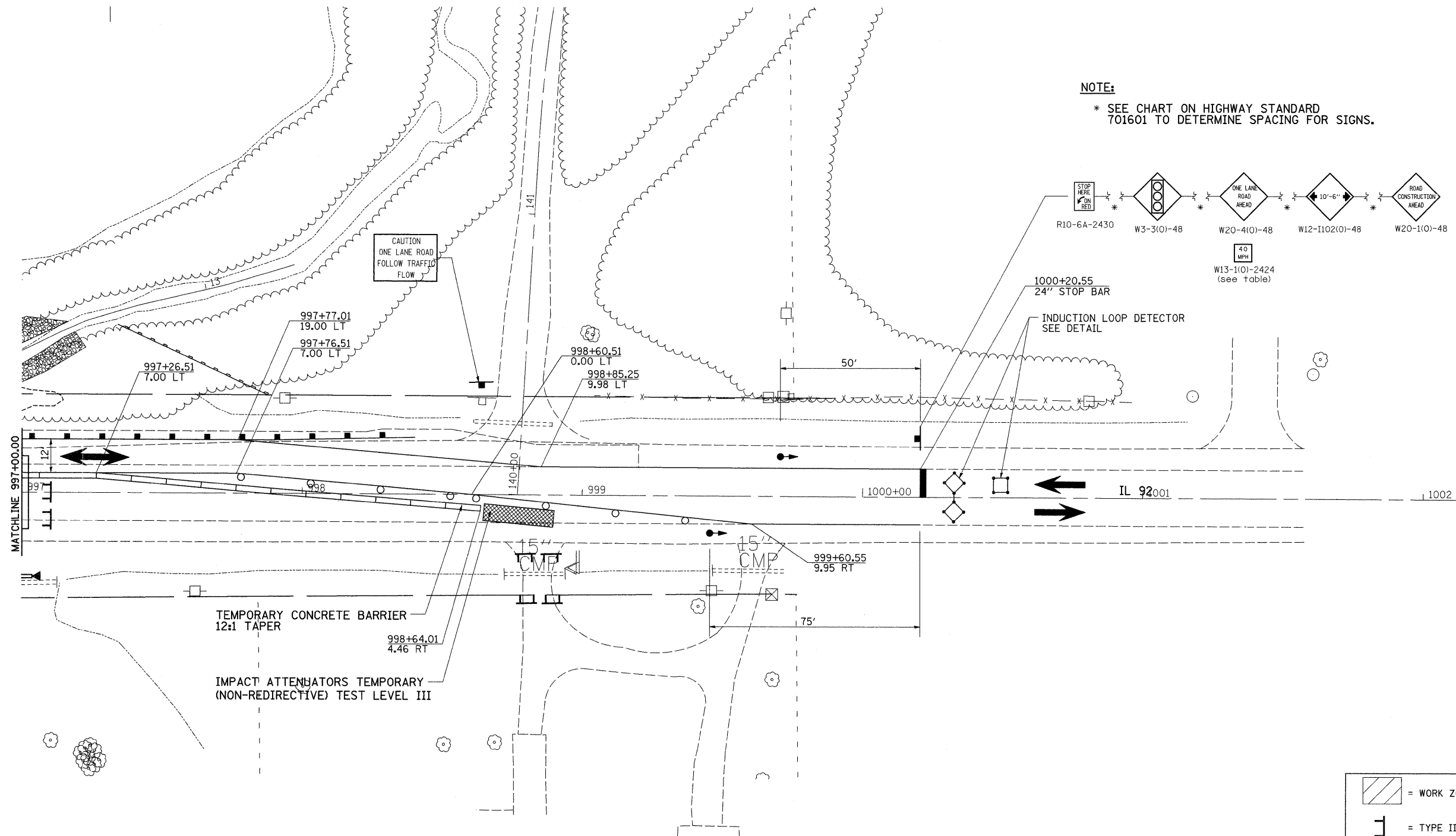
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	22
CONTRACT NO. 64737				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STAGE 3



NOTE:

* SEE CHART ON HIGHWAY STANDARD 701601 TO DETERMINE SPACING FOR SIGNS.



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CONSTRUCT CULVERT RT TO STAGE CONSTRUCTION LINE.
3. PLACE PROPOSED SHOULDERS RT FROM STA 994+40 TO STA 997+58.58
4. CONSTRUCT FE AND PE ACCORDING TO PLANS.
5. GRADE AND SHAPE SLOPES.

	= WORK ZONE
	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	= TEMPORARY RUMBLE STRIPS

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAIL SHEET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwsdot\hensonke\dms34329\d10801stg.dgn	DRAWN -	REVISED -	599			103MFT-T	ROCK ISLAND	55	23	
PLOT SCALE = 20,000 ft / IN.	CHECKED -	REVISED -	CONTRACT NO. 64737							
PLOT DATE = Thu Dec 04 13:36:14 2008	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE: SHEET NO. OF SHEETS STA. TO STA.										

Bench Mark: Point #477, CMP; North: 1,738087.76 East: 2,140,232.17, Elev. 581.515

Existing Structure: S.N. 081-1050, built in 1940 as double 7'x7' R.C. box culvert, 42'-10" face to face of headwall with culvert length 60'-4". Traffic to be maintained utilizing staged construction.

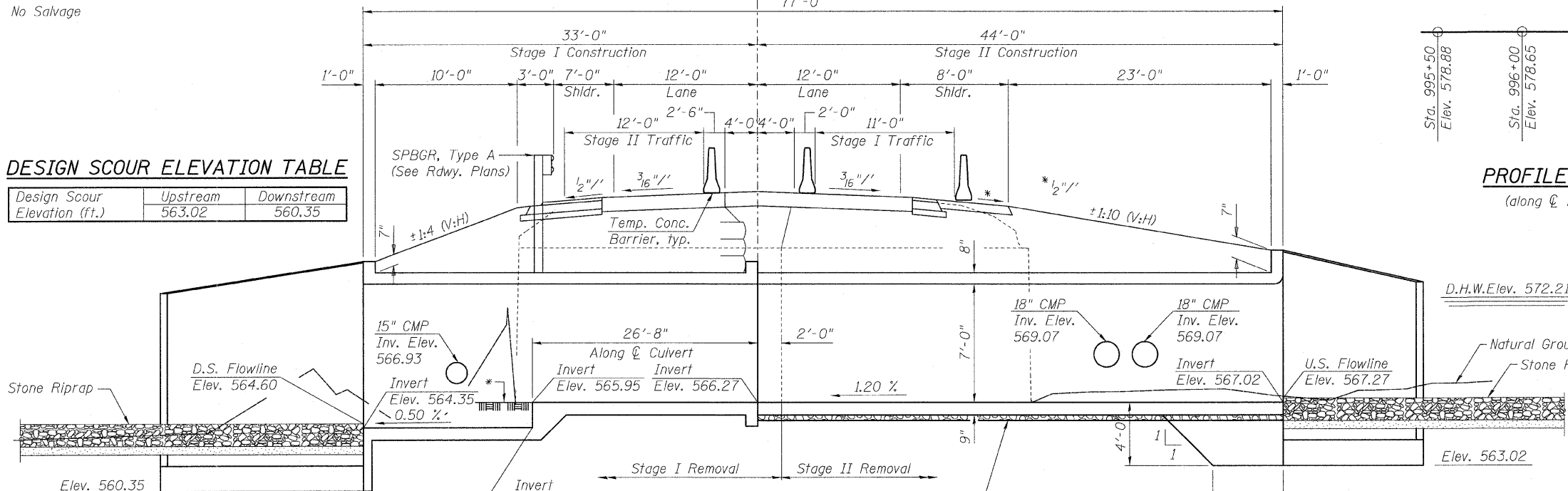
© F.A.P. 599 (IL. 92),
Stage Const. Line & P.G.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

No Salvage

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	563.02	560.35



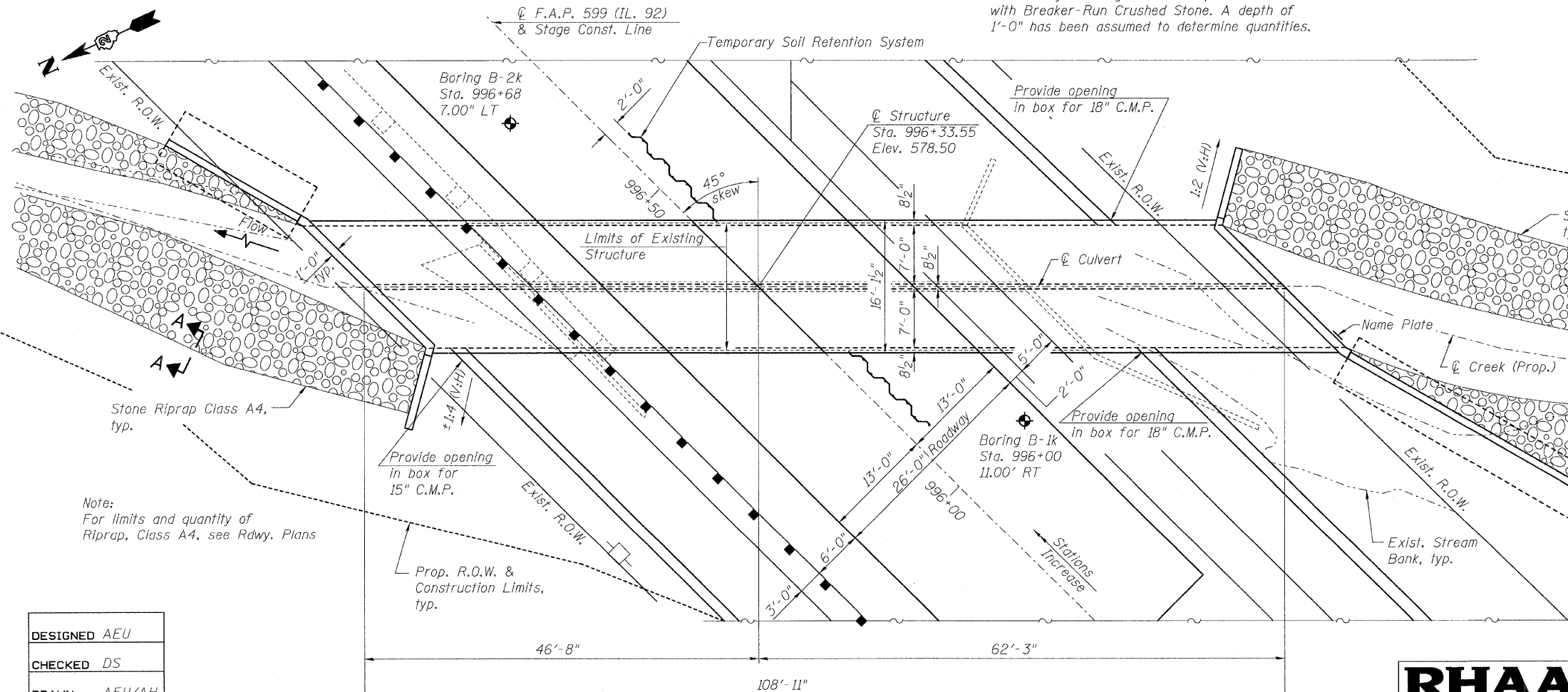
LONGITUDINAL SECTION

Dimensions are at Right Angles to \bar{C} Roadway except as noted

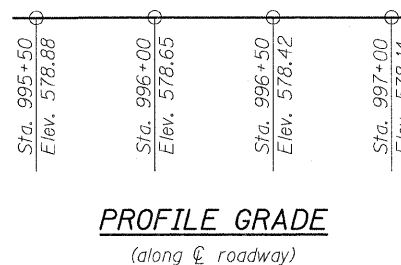
Remove unsuitable material to a depth as directed by the Engineer and replace with Breaker-Run Crushed Stone. A depth of 1'-0" has been assumed to determine quantities.

*Estimated Top of Rock, Elev. 566.00

© F.A.P. 599 (IL. 92)
& Stage Const. Line



PLAN



PROFILE GRADE

(along \bar{C} roadway)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

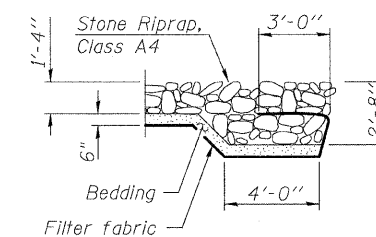
LOADING HS-20-44

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

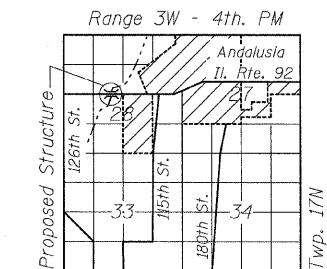
WATERWAY INFORMATION

Drainage Area = 0.76 sq. mi. Low Grade Elev. 578.07 @ Sta. 117+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	592	54.9	63.0	2.07	1.50	573.14	572.57
Base	50	964	70.8	79.0	3.65	3.08	575.86	575.29
Overtop Exist.	100	1127	76.3	84.4	5.72	4.62	577.22	576.66
Overtop Prop.	143	1218	79.9	91.0	5.22	5.01	578.08	578.08



SECTION A-A



LOCATION SKETCH



Andrew E. Underwager

Expires 11/30/2010
Date 1/22/2009

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

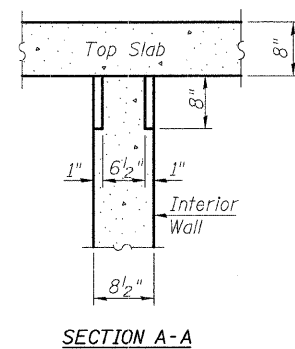
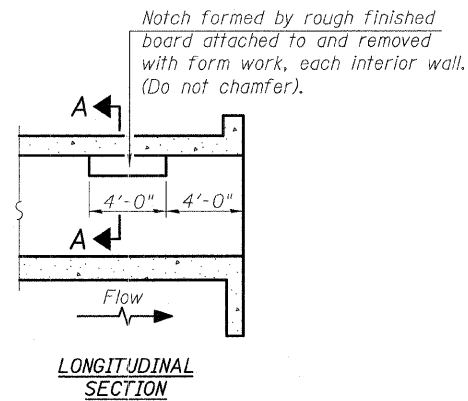
GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 92 OVER UNNAMED CREEK
F.A.P. RT. 599 SEC. 103MFT-T
ROCK ISLAND COUNTY
STATION 996+33.55
STRUCTURE NO. 081-1116

DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	24
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
SHEET NO. 1		CONTRACT NO. 64737		
9 SHEETS				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**PHOEBE NESTING
SITE DETAILS**
(Downstream End Only)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	45.5
Removal of Existing Structures No. 1	Each	1
Rock Excavation for Structures	Cu. Yd.	112.8
Name Plates	Each	1
Reinforcement Bars	Pound	47,260
Reinforcement Bars, Epoxy Coated	Pound	630
Bar Splicers	Each	88
Concrete Box Culverts	Cu. Yd.	215.2
Temporary Soil Retention System	Sq. Ft.	485
Breaker-Run Crushed Stone	Ton	74

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Temporary Concrete Barrier for Stage Construction
4. Temporary Soil Retention System Details
5. Top Slab Plan
6. Bottom Slab Plan
7. Culvert Details
8. Bar Splicer Assembly Details
9. Soil Boring Logs

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

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

Remove unsuitable soil below bottom of Culvert as directed by the Engineer and 2'-0" outside of the exterior walls of the box culvert. Cost shall be paid for as "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL". Replace with "BREAKER-RUN CRUSHED STONE". A depth of 1'-0" has been assumed to determine quantities.

A precast concrete box culvert alternate will not be allowed at this site.

STATION 996+33.55
BUILT 2009 BY
STATE OF ILLINOIS
F.A.P. RT. 599 SEC. 103MFT-T
LOADING HS20
STRUCTURE NO. 081-1116

NAME PLATE
See Std. 515001

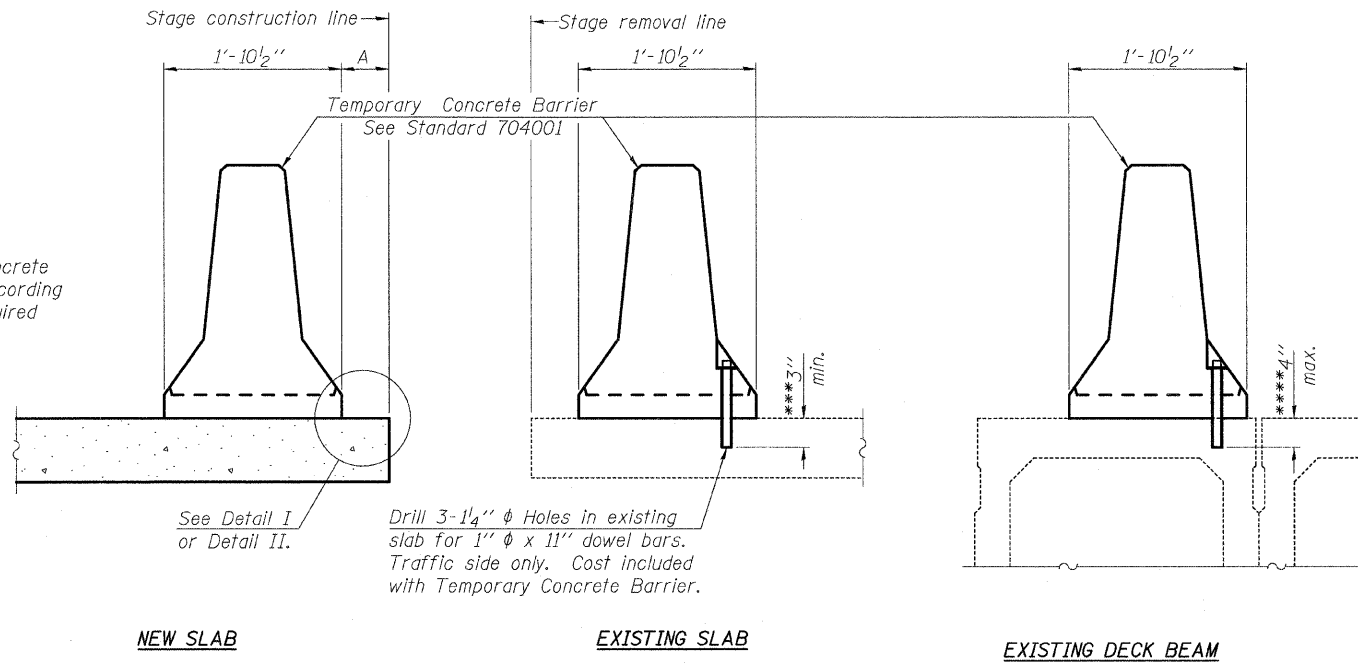
DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS

**GENERAL DATA
STRUCTURE NO. 081-1116**

RHAA Robert H. Anderson & Associates, Inc. Consulting Engineers License No. J84-005281	SHEET NO. 2	F.A.P. RTE. 599	SECTION 103MFT-T	COUNTY ROCK ISLAND	TOTAL SHEETS 55	SHEET NO. 25
	9 SHEETS	CONTRACT NO. 64737			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

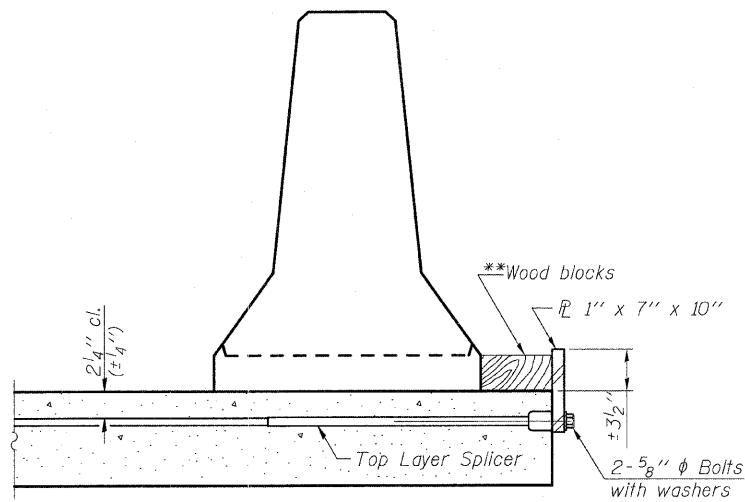
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-5/8" diameter bolts screwed to coupler at approximate center of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel PL to the concrete slab or concrete wearing surface with 2-5/8" diameter Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate center of each barrier panel.

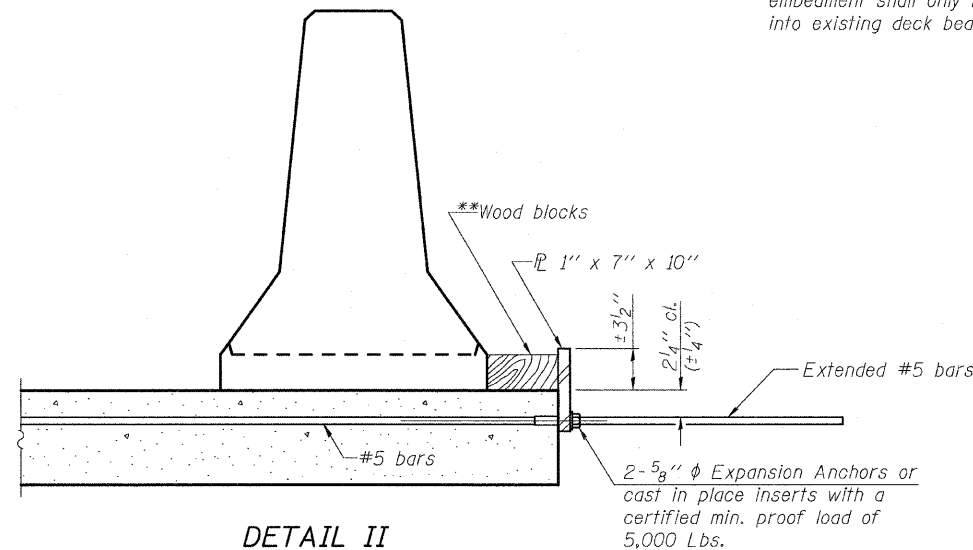
Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

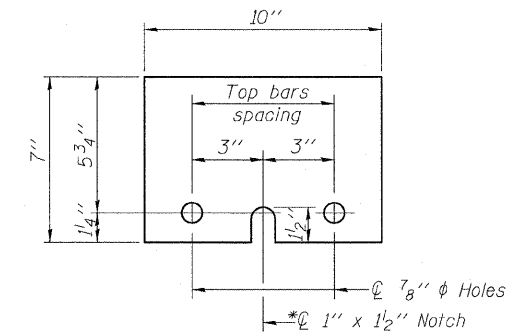
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x 10"

* Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 081-1116

DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS

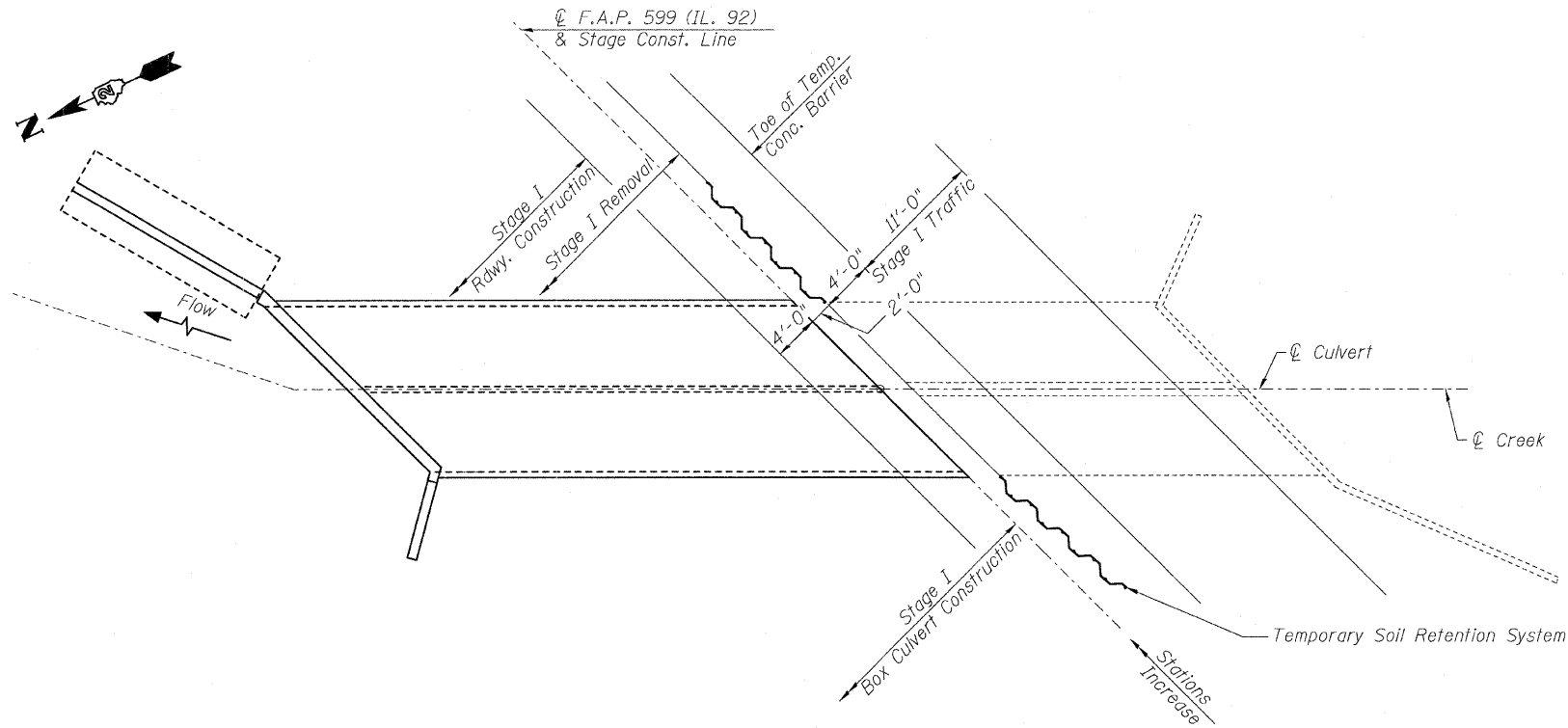
R-27

10-1-08

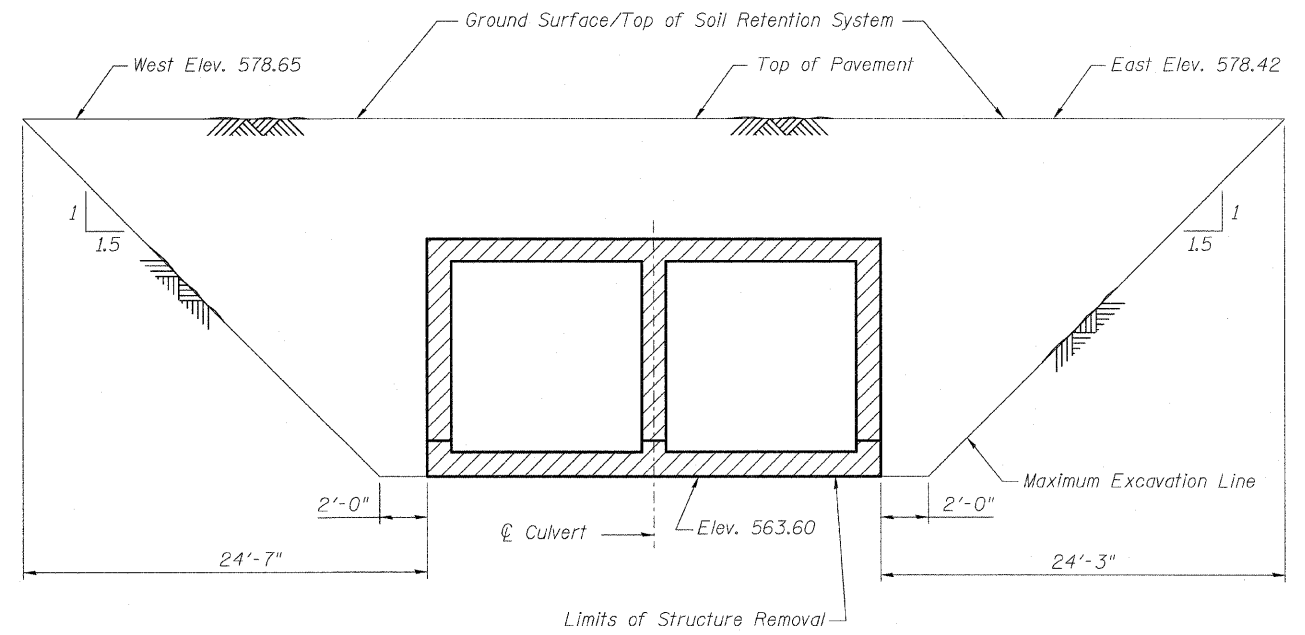
RHAA
Robert H. Anderson & Associates, Inc.
Consulting Engineers
License No. 084-005281

SHEET NO. 3	F.A.P. RTE. 599	SECTION 103MFT-T	COUNTY ROCK ISLAND	TOTAL SHEETS 55	SHEET NO. 26
9 SHEETS	CONTRACT NO. 64737				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

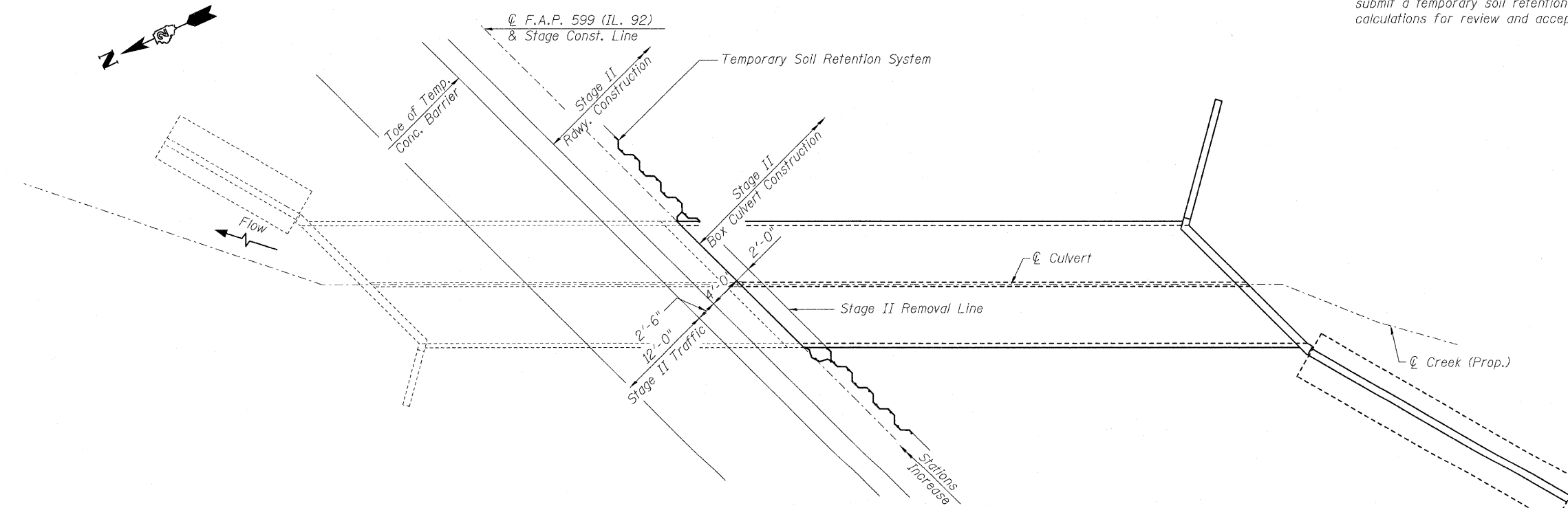


STAGE I CONSTRUCTION



TEMPORARY SOIL RETENTION SYSTEM

Notes:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



STAGE II CONSTRUCTION

**TEMPORARY SOIL RETENTION SYSTEM DETAILS
STRUCTURE NO. 081-1116**

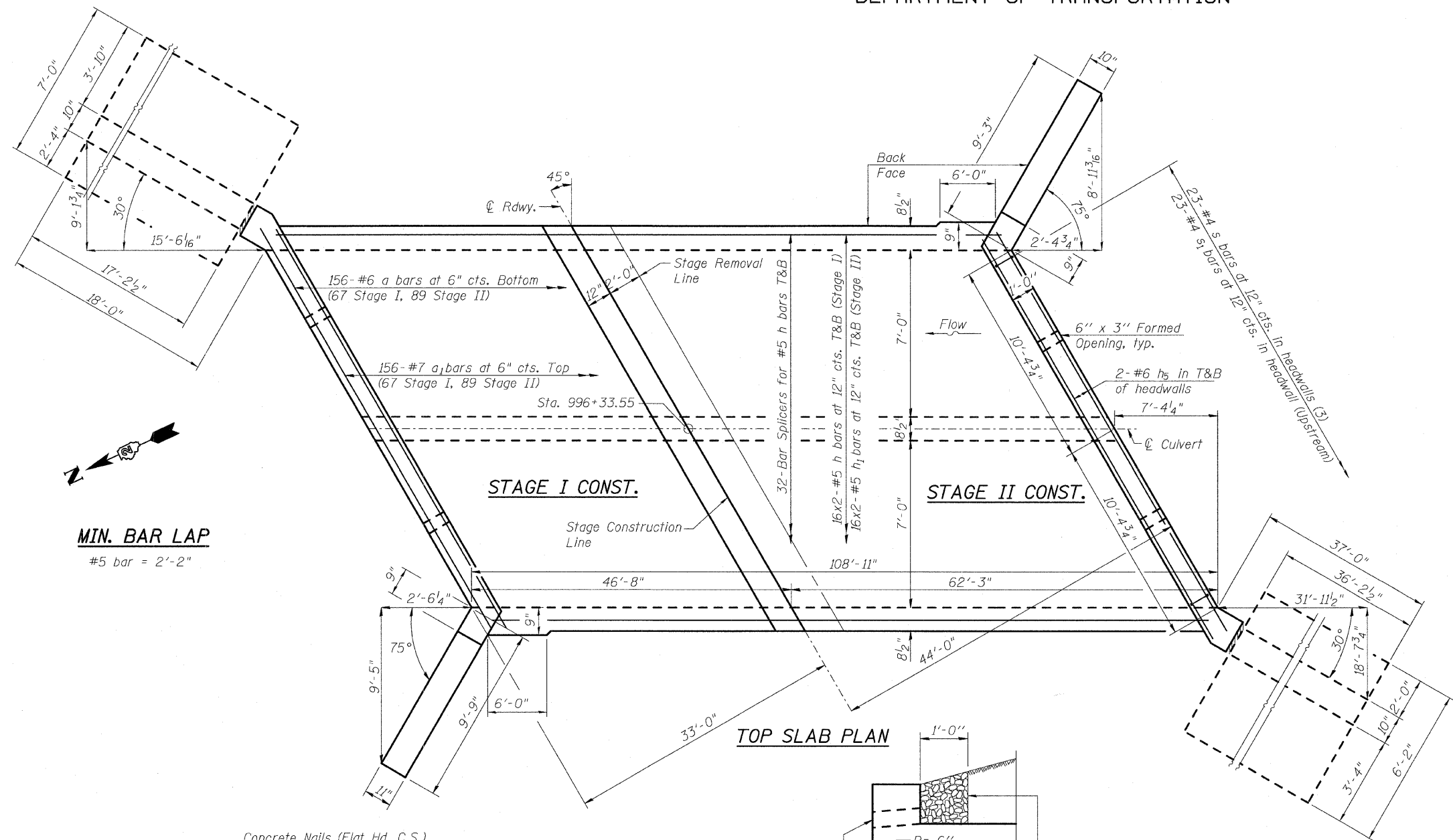
DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS

RHAA
Robert H. Anderson & Associates, Inc.
Consulting Engineers
License No. 184-005281

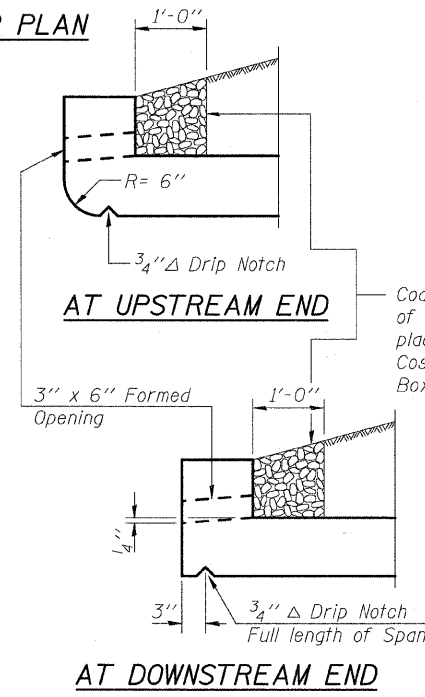
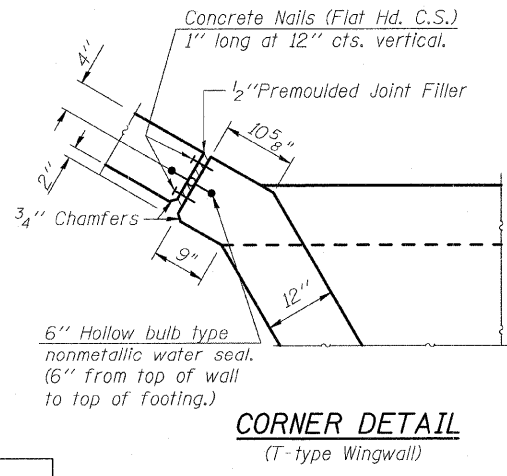
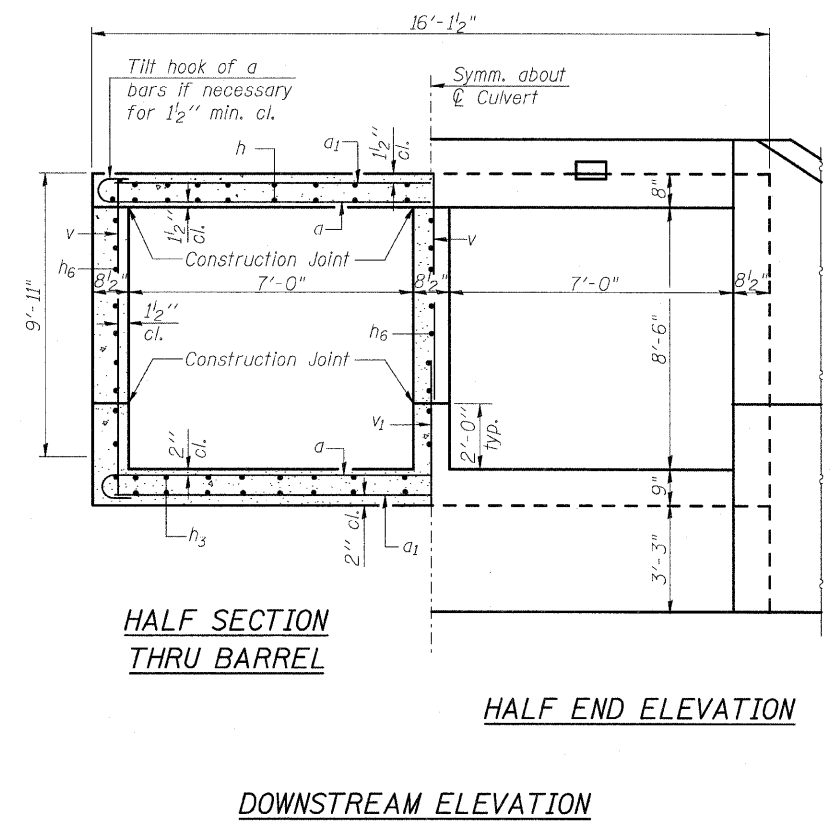
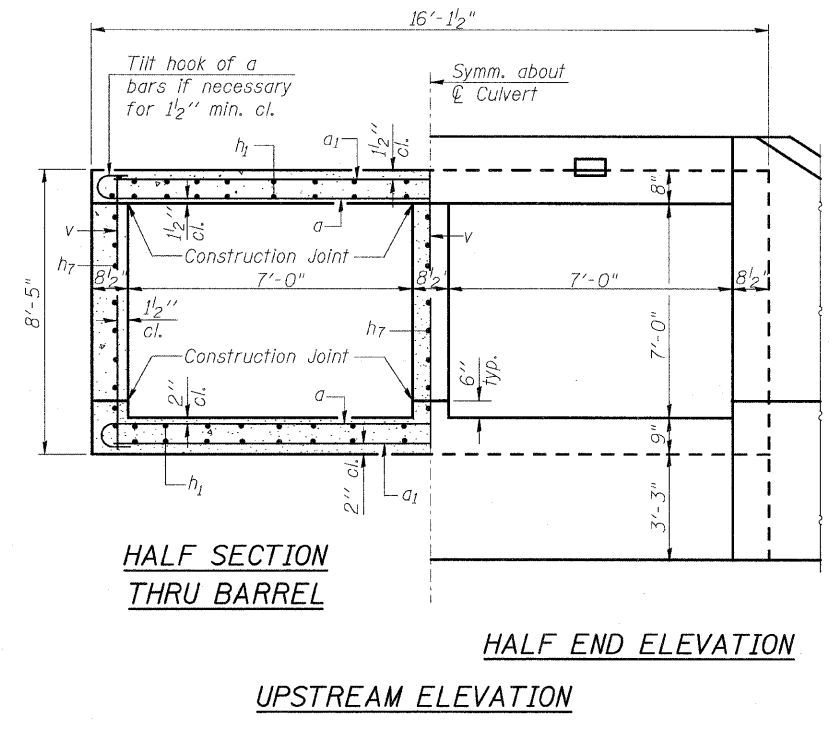
SHEET NO. 4
9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	27
CONTRACT NO. 64737				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MIN. BAR LAP
#5 bar = 2'-2"



LEGEND:

T&B - Top & Bottom

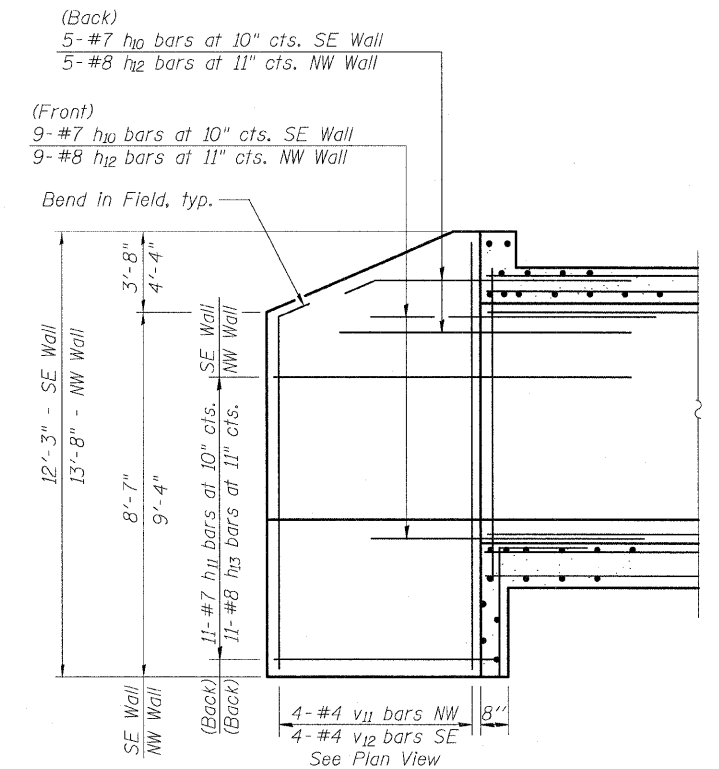
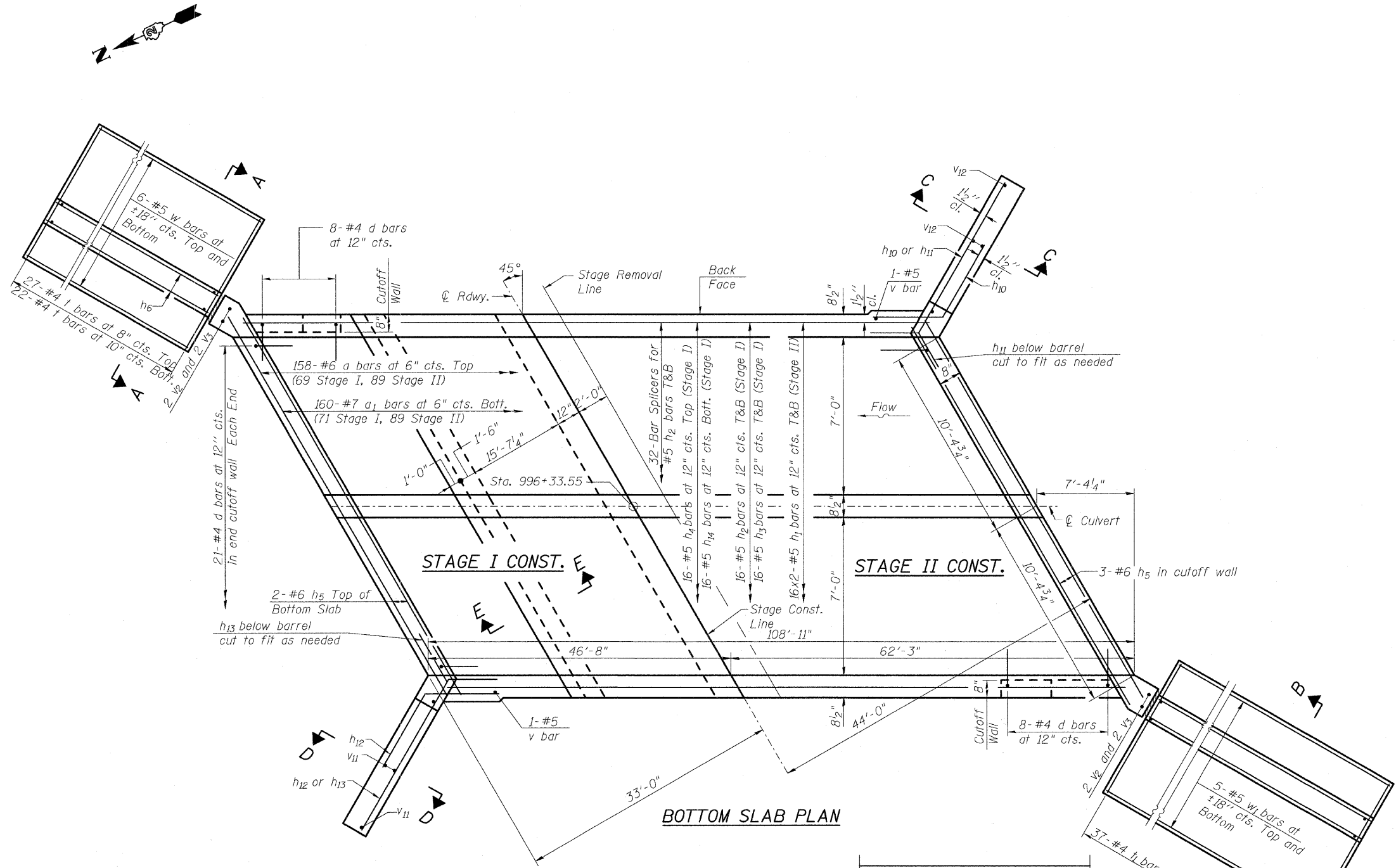
Notes:
Bars indicated thus 12x4-#5 etc. indicates
12 lines of bars with 4 lengths per line.

DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS

RHAA
Robert H. Anderson & Associates, Inc.
Consulting Engineers
License No. 184-005281

SHEET NO. 5	F.A.P. RTE. 599	SECTION 103MFT-T	COUNTY ROCK ISLAND	TOTAL SHEETS 55	SHEET NO. 29
9 SHEETS	CONTRACT NO. 64737				
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



HORIZONTAL CANTILEVER WALL DETAILS

MIN. BAR LAP
#5 bar = 2'-2"

Notes:
A distance of half the length of the horizontal cantilevered wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
For Sections A-A, B-B, C-C & D-D see Sheet 7.

BOTTOM SLAB PLAN
STRUCTURE NO. 081-1116

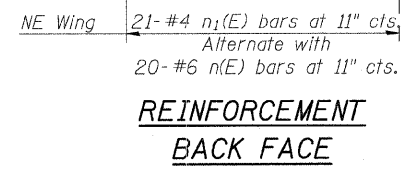
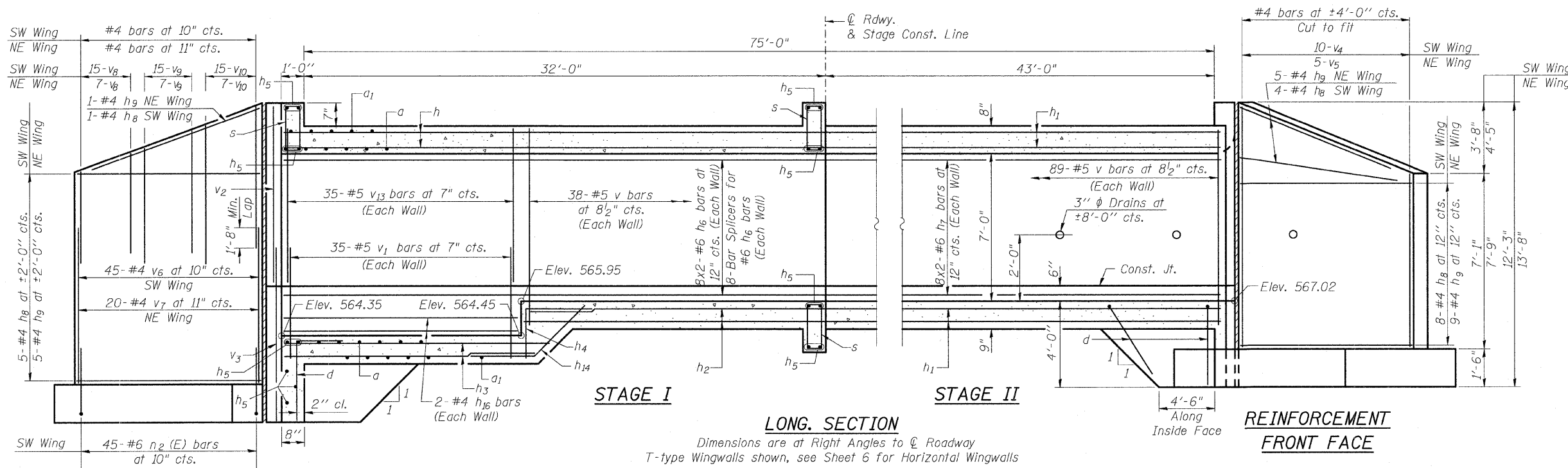
DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS

SECTION E-E

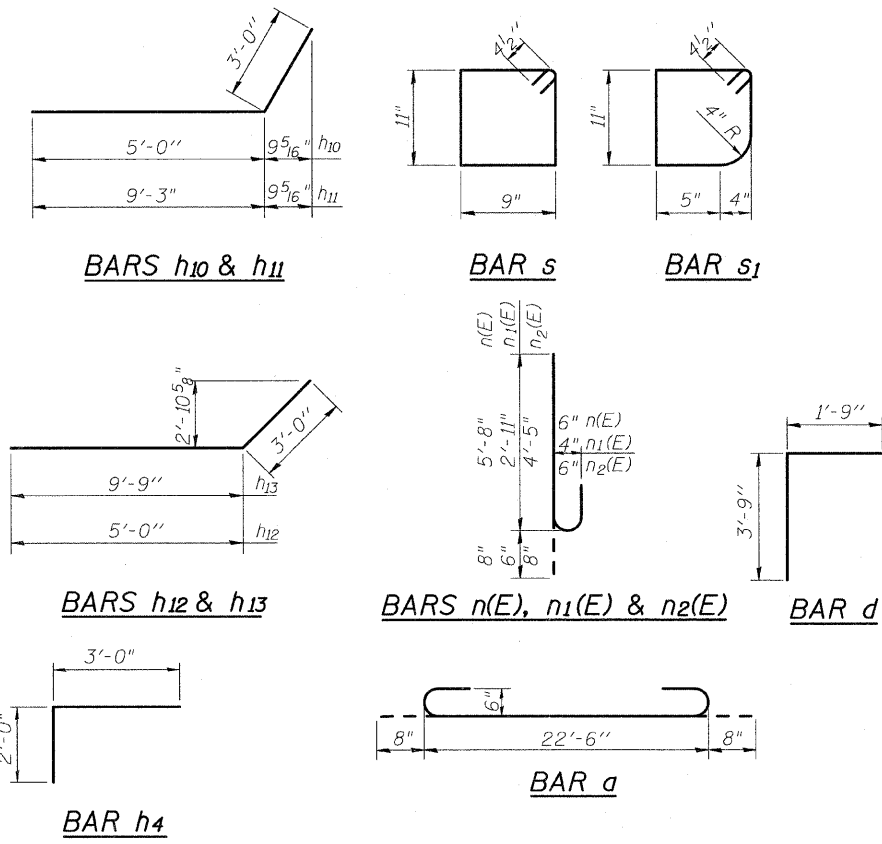
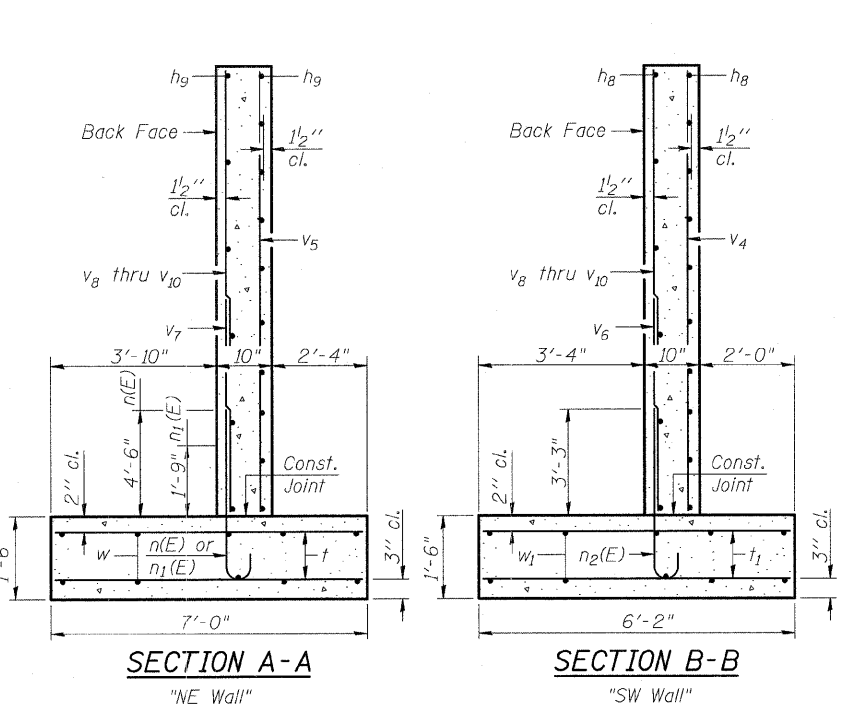
WALL OPENING DETAIL
Typical 3 locations

RHAA Robert H. Anderson & Associates, Inc. Consulting Engineers License No. 084-005281	SHEET NO. 6	F.A.P. RTE. 599	SECTION 103MFT-T	COUNTY ROCK ISLAND	TOTAL SHEETS 55	SHEET NO. 30
	9 SHEETS	CONTRACT NO. 64737				
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MIN. BAR LAP
#6 bar = 2'-0"



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	314	#6	23'-10"	
a1	316	#7	22'-6"	
d	58	#4	5'-6"	
h	64	#5	24'-4"	
h1	128	#5	32'-1"	
h2	32	#5	26'-6"	
h3	32	#5	20'-10"	
h4	16	#5	5'-0"	
h5	26	#6	23'-10"	
h6	48	#6	24'-4"	
h7	48	#6	32'-1"	
h8	18	#4	35'-10"	
h9	20	#4	16'-10"	
h10	14	#7	8'-0"	
h11	11	#7	12'-3"	
h12	14	#8	8'-0"	
h13	11	#8	12'-9"	
h14	16	#5	5'-0"	
h15	12	#5	2'-2"	
h16	6	#6	19'-8"	
n(E)	20	#6	6'-4"	
n1(E)	21	#4	3'-5"	
n2(E)	45	#6	5'-1"	
s	69	#4	4'-1"	
s1	23	#4	3'-10"	
t	49	#4	6'-9"	
t1	74	#4	5'-11"	
v	383	#5	8'-2"	
v1	105	#5	3'-10"	
v2	4	#5	8'-0"	
v3	4	#5	7'-5"	
v4	10	#4	10'-5"	
v5	5	#4	11'-10"	
v6	45	#4	6'-0"	
v7	20	#4	6'-8"	
v8	22	#4	4'-0"	
v9	22	#4	5'-8"	
v10	22	#4	7'-4"	
v11	4	#4	13'-4"	
v12	4	#4	11'-11"	
v13	105	#5	7'-5"	
w	12	#5	16'-11"	
w1	10	#5	35'-11"	
Concrete Box Culverts			Cu. Yd.	215.2
Reinforcement Bars, Epoxy Coated			Pound	630
Reinforcement Bars			Pound	47,260

Notes:
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

CULVERT DETAILS
STRUCTURE NO. 081-1116

DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS

RHAA Robert H. Anderson & Associates, Inc. Consulting Engineers License No. 184-005281	SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	9 SHEETS	599	103MFT-T	ROCK ISLAND	55	31
			CONTRACT NO. 64737			
			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

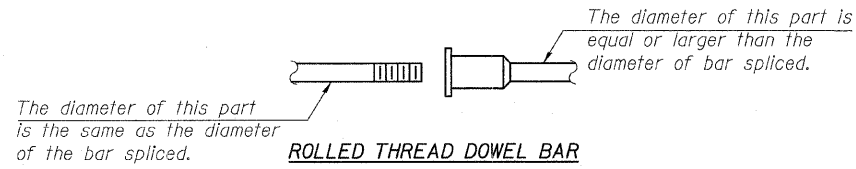
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOTES

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

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
(Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

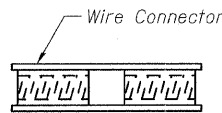
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



ROLLED THREAD DOWEL BAR



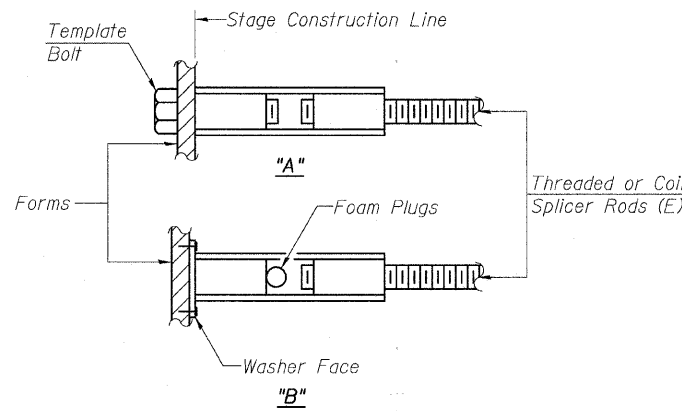
** ONE PIECE



WELDED SECTIONS

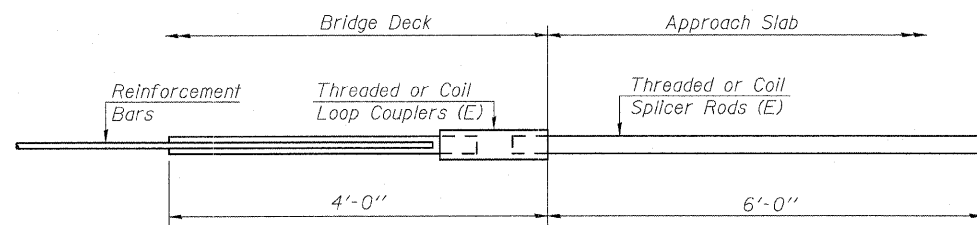
BAR SPLICER ASSEMBLY ALTERNATIVES

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



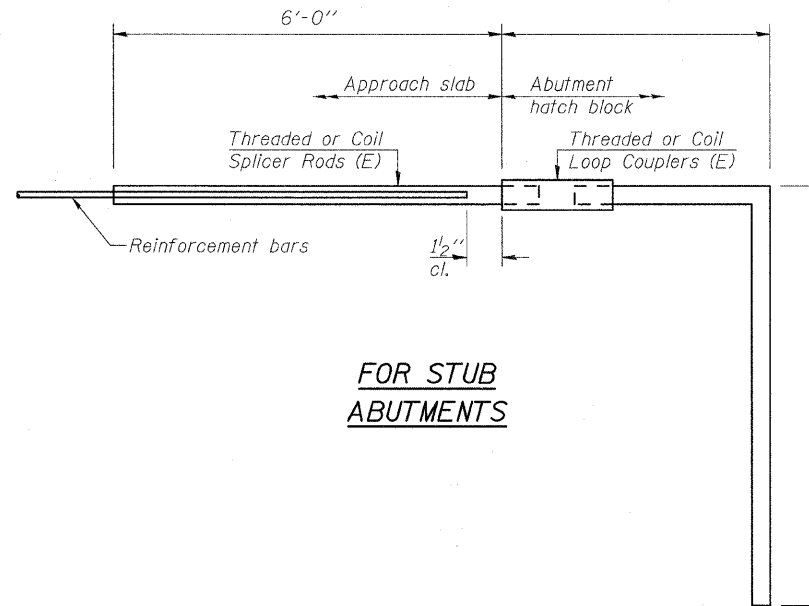
INSTALLATION AND SETTING METHODS

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



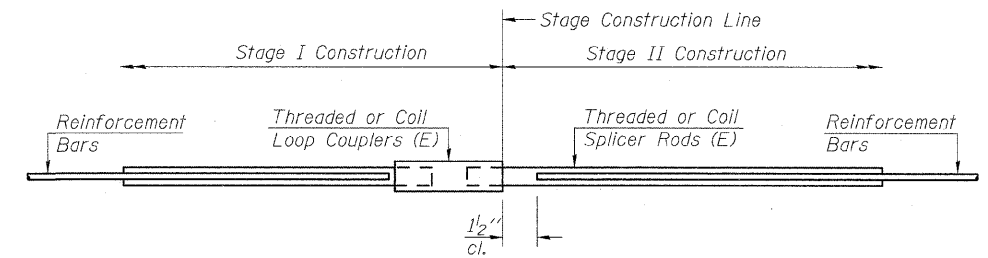
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



FOR STUB ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	32	Top Slab
#5	32	Bottom Slab
#6	24	Barrel Walls

BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 081-1116

DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS

BSD-1

10-1-08

RHAA
Robert H. Anderson & Associates, Inc.
Consulting Engineers
License No. 184-005281

SHEET NO. 8	F.A.P. RTE. 599	SECTION 103MFT-T	COUNTY ROCK ISLAND	TOTAL SHEETS 55	SHEET NO. 32
9 SHEETS	CONTRACT NO. 64737				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

Date 10/20/03

ROUTE FA 599 DESCRIPTION P92-029-79 IL 92 LOGGED BY C. Jenkins
SECTION (83MAFT&103MFT)W&RS LOCATION Andalusia Twp. - NE, SEC. 28, TWP. 17N, RNG. 3W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft
BORING NO. Station Offset Ground Surface Elev. _____ ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft
996+40					
B-1k 996+00 11.00ft RL CL 578.44					
STIFF brown SILTY CLAY			1.3 P	16	Ground Surface Elevation=578.44 ft.
MEDIUM brown SILTY LOAM with GRAVEL	575.94	2 3 4	0.9 S	17	
MEDIUM brown SILTY LOAM with some GRAVEL	574.44	1 6	0.6 P	17	
VERY STIFF brown SILTY LOAM over weathered LIMESTONE	571.94	2 1 27	3.7 P	4	
VERY DENSE gray weathered LIMESTONE	568.94	100/1"	PEN		
Same as above	566.94	100/1"	PEN		
VERY DENSE gray weathered LIMESTONE	564.44	100/1"	PEN		
Same as above	561.94	100/1"	PEN		
End of Boring	560.74	100/1"	PEN		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED	AEU
CHECKED	DS
DRAWN	AEU/AH
CHECKED	DS



SOIL BORING LOG

Page 1 of 1

Date 10/22/03

ROUTE FA 599 DESCRIPTION P92-029-79 IL 92 LOGGED BY C. Jenkins
SECTION (83MAFT&103MFT)W&RS LOCATION Andalusia Twp. - NE, SEC. 28, TWP. 17N, RNG. 3W
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

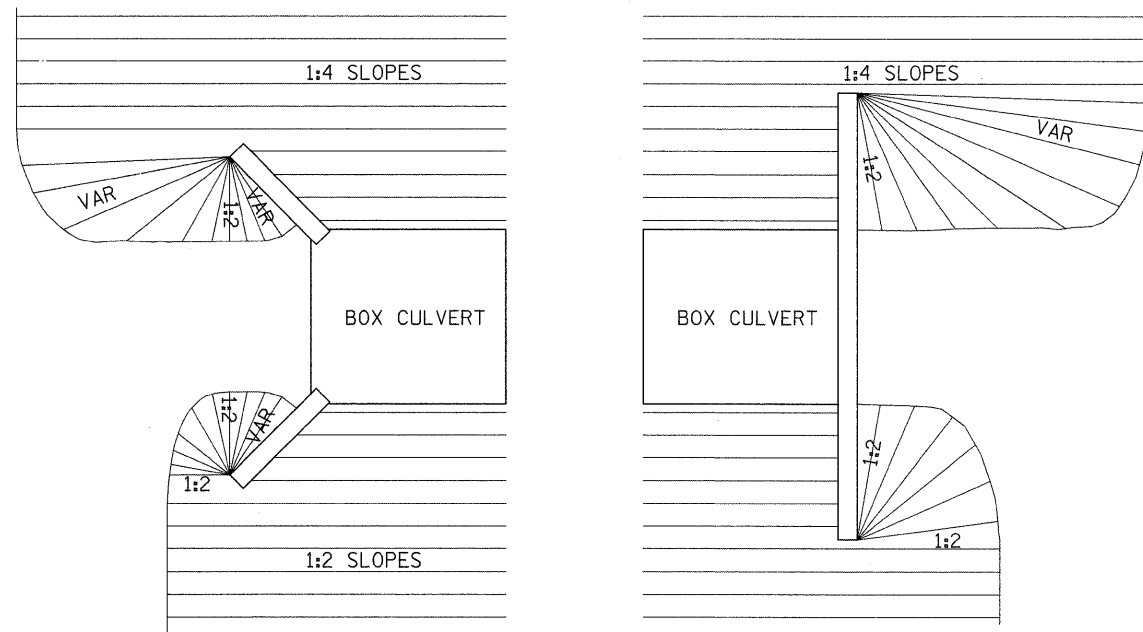
STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft
BORING NO. Station Offset Ground Surface Elev. _____ ft	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs. _____ ft
996+40					
B-2k 996+68 7.00ft Lt CL 577.94					
Concrete Gravel MEDIUM brown SAND & GRAVEL					Ground Surface Elevation=577.94 ft.
MEDIUM tan/brown SILTY LOAM with GRAVEL	575.44	2 3 4	0.5 S	19	
STIFF tan/brown SILTY LOAM with LIMESTONE fragments	573.94	5 5 5	1.5 S	12	
MEDIUM brown SILTY LOAM with a SAND lens	571.44	2 2 2	0.7 P	18	
STIFF tan SILTY LOAM with LIMESTONE fragments	568.94	6 5 6	1.2 P	23	
VERY DENSE gray weathered LIMESTONE	565.94	6			
Auger Refusal at 13.7' End of Boring	564.24	100/2"	PEN		

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 LOGS
STRUCTURE NO. 081-1116

RHAA Robert H. Anderson & Associates, Inc. Consulting Engineers License No. 084-005281	SHEET NO. 9	F.A.P. RTE. 599	SECTION 103MFT-T	COUNTY ROCK ISLAND	TOTAL SHEETS 55	SHEET NO. 33
	9 SHEETS	CONTRACT NO. 64737				
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

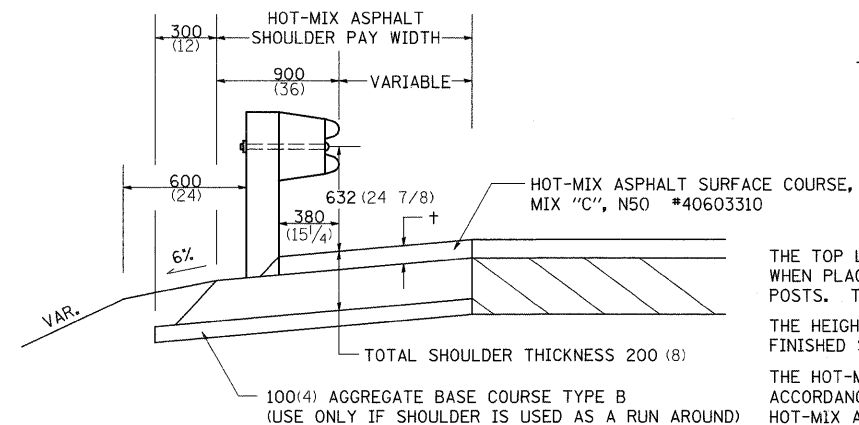
GRADING AROUND WINGWALLS



10-21-08

GRADING AROUND WINGWALLS 20.4

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



+ = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET 632 (24 7/8) FROM THE FINISHED SURFACE.

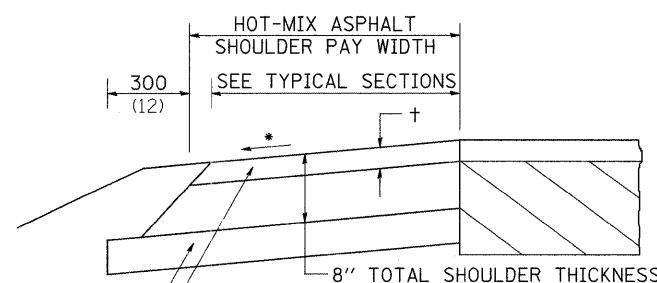
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

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

REVISED - 11-01-07

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

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.

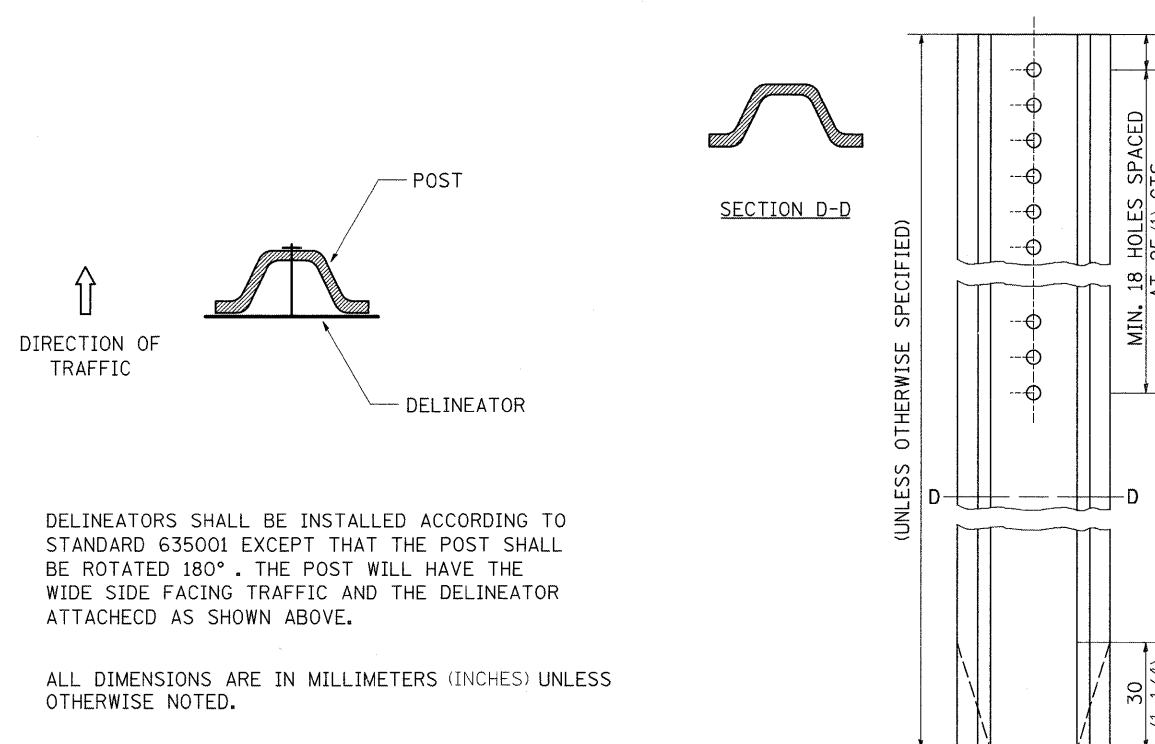
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

+ = SEE TYPICAL SECTIONS FOR THICKNESS

REVISED - 11-01-07

HOT-MIX ASPHALT SHOULDER 23.4a

DELINEATOR AND POST ORIENTATION



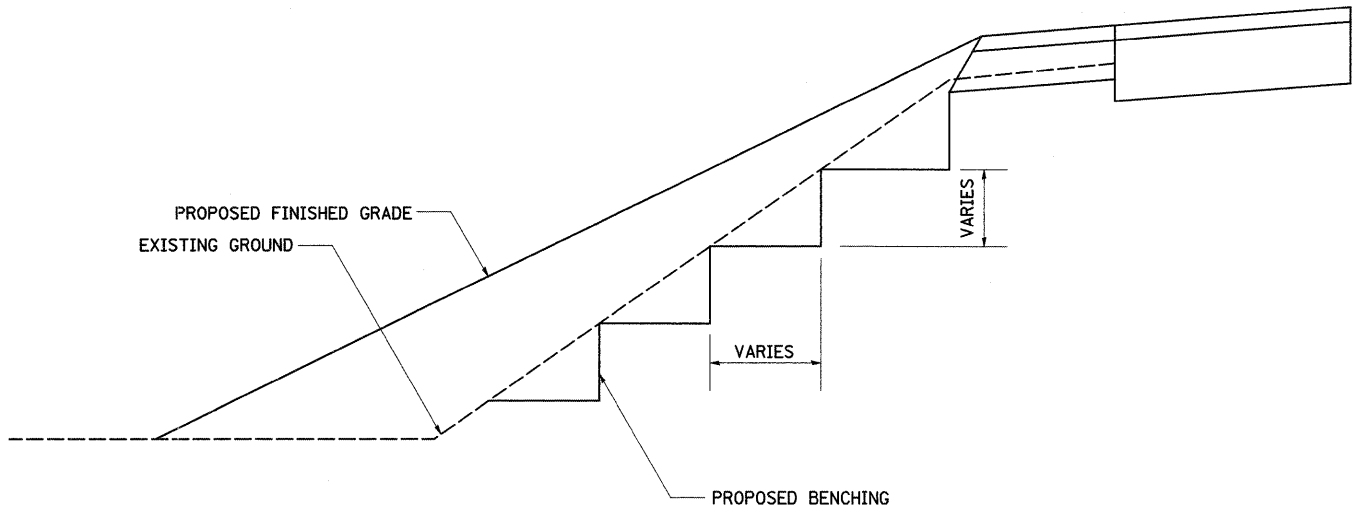
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

REVISED - 11-01-07	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					599	103MFT-T	ROCK ISLAND	55	34
REVISED -					CONTRACT NO. 64737				
REVISED -	SCALE: 50.0000' / IN SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLOT DATE = Thu Dec 04 06:57:52 2008

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

TREE REPLACEMENT SCHEDULE

CODE NUMBER	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
A2006514	QUERCUS BICOLOR	SWAMP WHITE OAK	1 3/4" CALIPER BALLED AND BURLAPPED	EACH	64
C2001748	CORNUS SERICEA CARDINAL	CARDINAL REDSTARTER DOGWOOD	4' BALLED AND BURLAPPED	EACH	24

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

REVISED - 8-10-05

TREE REPLACEMENT SCHEDULE 90.4

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 600(24)
 100(4) CAPITAL LETTERS - BLACK
 13 (1/2) BORDER - BLACK
 WHITE REFLECTIVE - TYPE AP
 HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:
 THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.
 ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

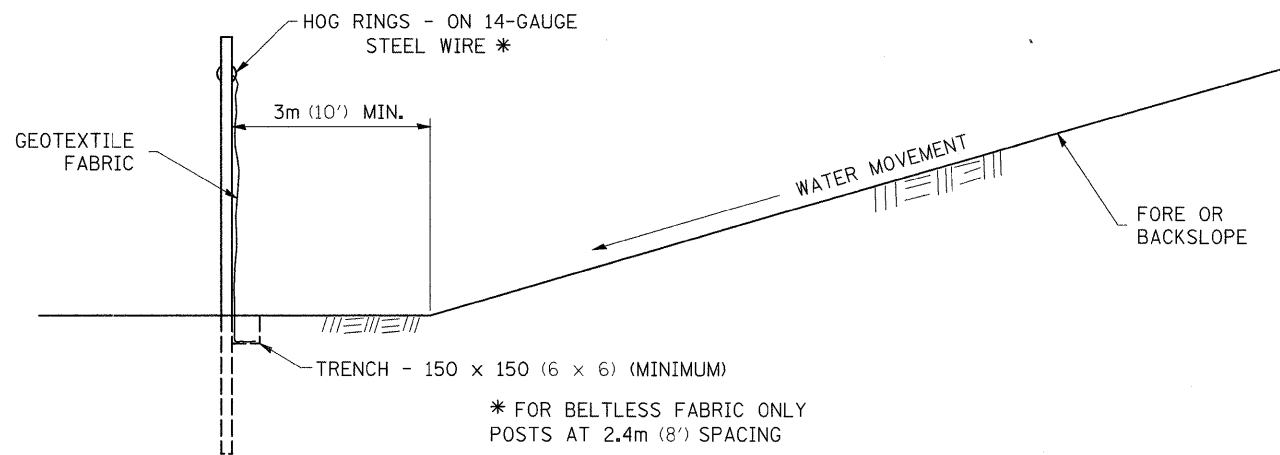
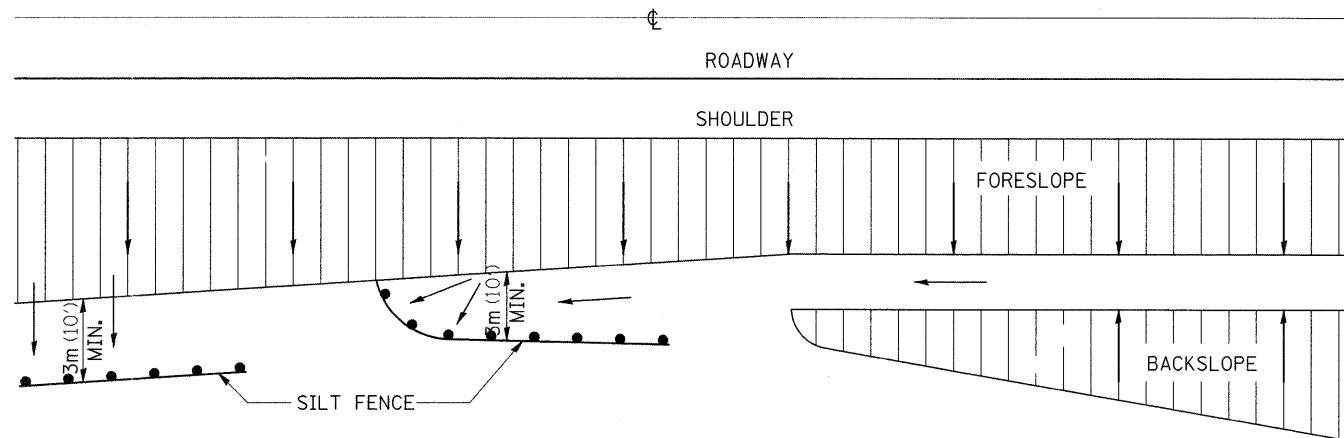
REVISED - 1-22-07

STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

REVISED -	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					599	103MFT-T	ROCK ISLAND	55	35
REVISED -					CONTRACT NO. 64737				
REVISED -					SCALE: 50.0000' / IN SHEET NO. OF SHEETS STA. TO STA.				
					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLOT DATE = Thu Dec 04 08:57:53 2008

EROSION CONTROL DETAILS FOR SILT FENCE



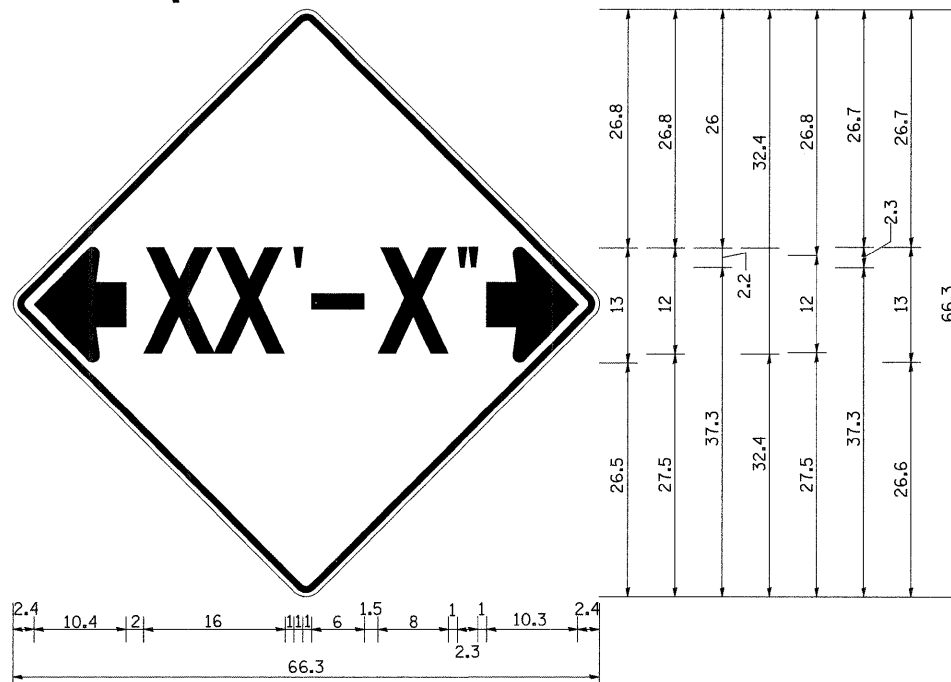
DETAILS OF SILT FENCE

* FOR BELTLESS FABRIC ONLY
POSTS AT 2.4m (8') SPACING

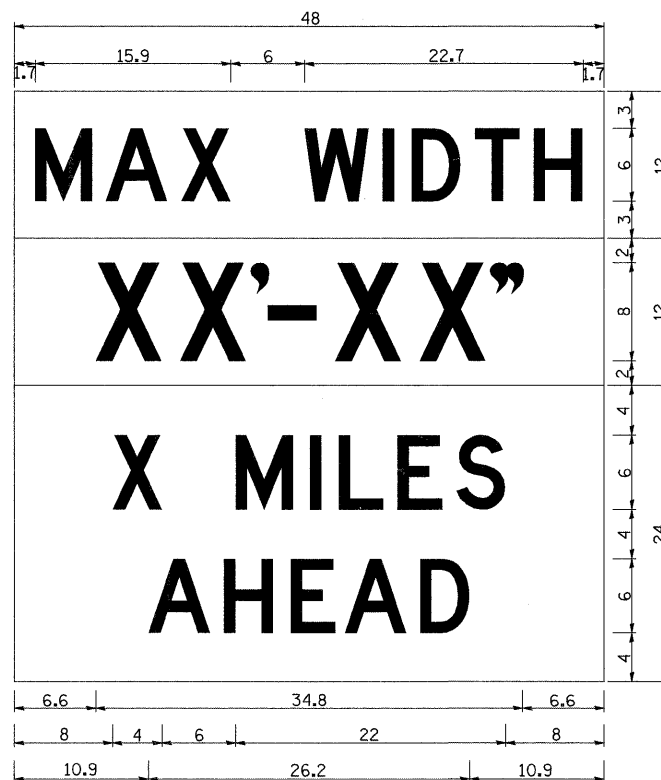
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 10-22-01

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
W12-2 - Horizontal Clearance Sign
48.0" across sides, 1.9" Radius,
0.8" Border, 0.5" Indent, Black on
Orange; Standard Arrow Custom
10.4" X 8.1" 180° Black 11 Inch
D Series Lettering; Standard Arrow
Custom 10.4" X 8.1" 0°



W12-1103 (Width is 8D);
No border, Black on White;
[MAX WIDTH] D;

No border, Black on Orange;
[XX'-XX''] D;

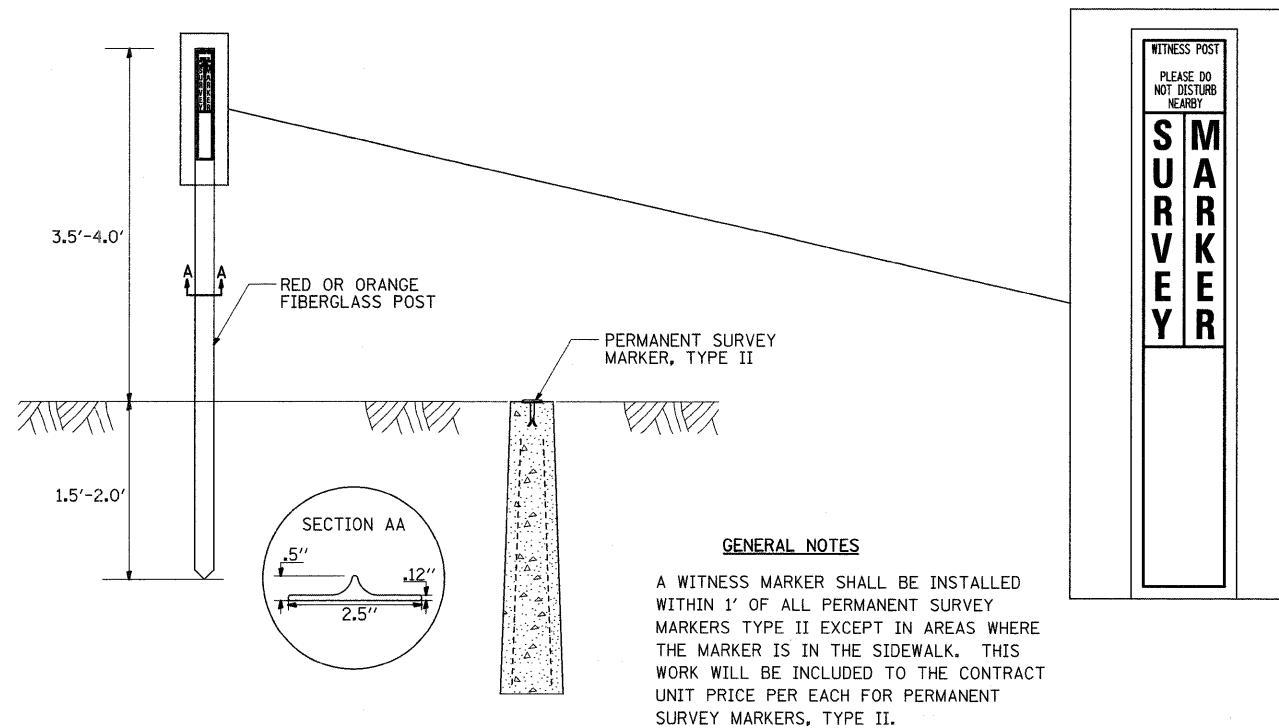
No border, Black on White;
[X MILES] D; [AHEAD] D;

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.

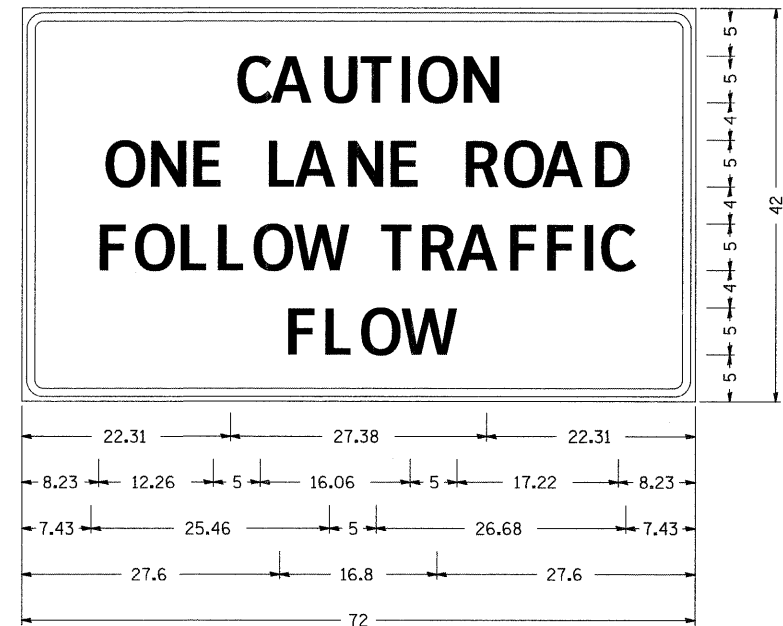
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-9-08	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					599	103MFT-T	ROCK ISLAND	55	36
REVISED -					CONTRACT NO. 64737				
REVISED -					SCALE: 50.0000' / IN SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting ;
 2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
 [CAUTION] D; [ONE LANE ROAD] D;
 [FOLLOW TRAFFIC] D; [FLOW] D

PERMANENT SURVEY MARKERS, TYPE II

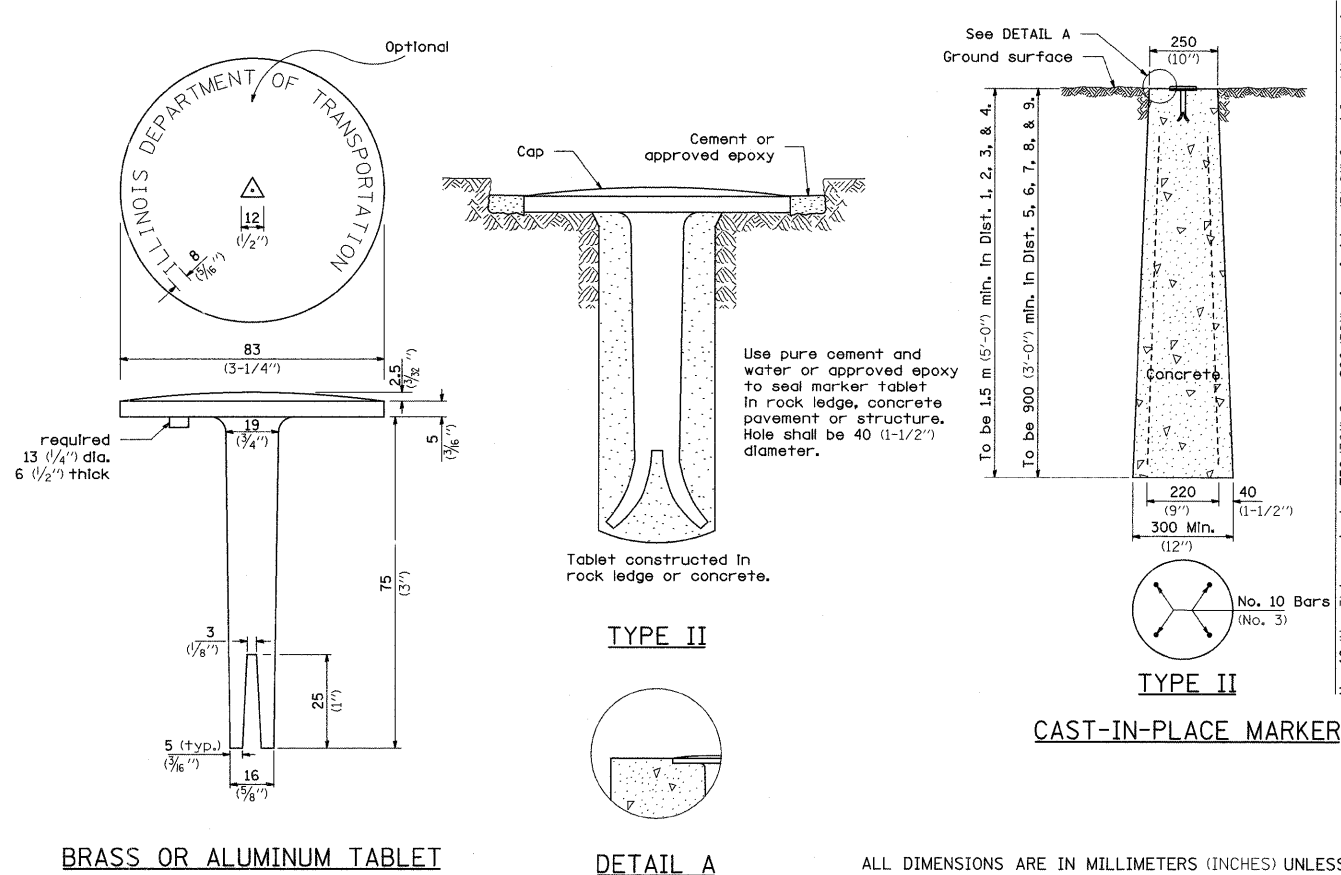


Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
8.23	O	3.51	1.17	N	3.36	1.18	E	3.04													
5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05										
5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23									
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37				
5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60									

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

REVISED - 10-21-08

REVISED - 10-28-05

REVISED -

REVISED -

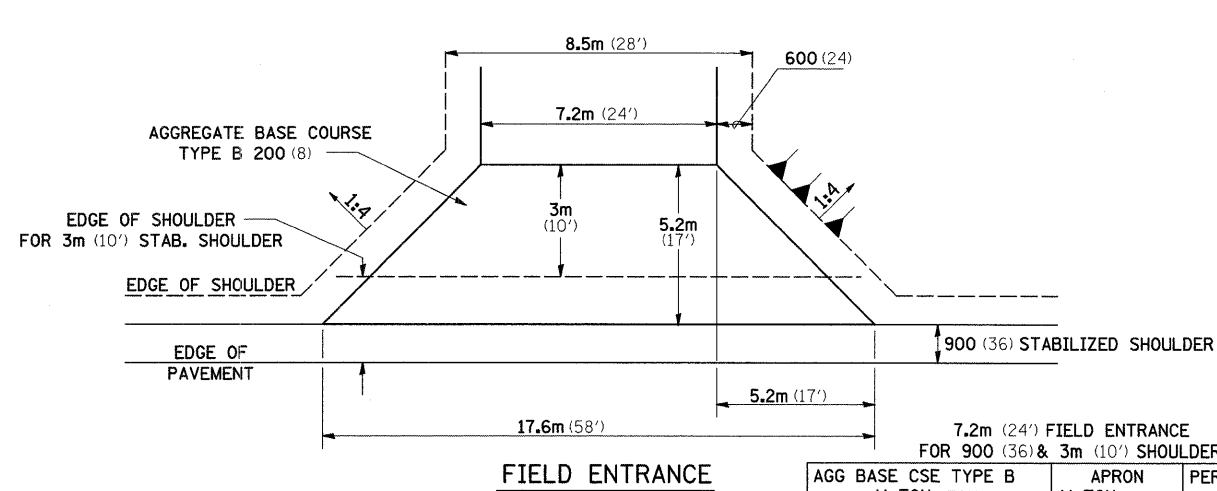
REVISED -

REGION 2 / DISTRICT 2 STANDARD

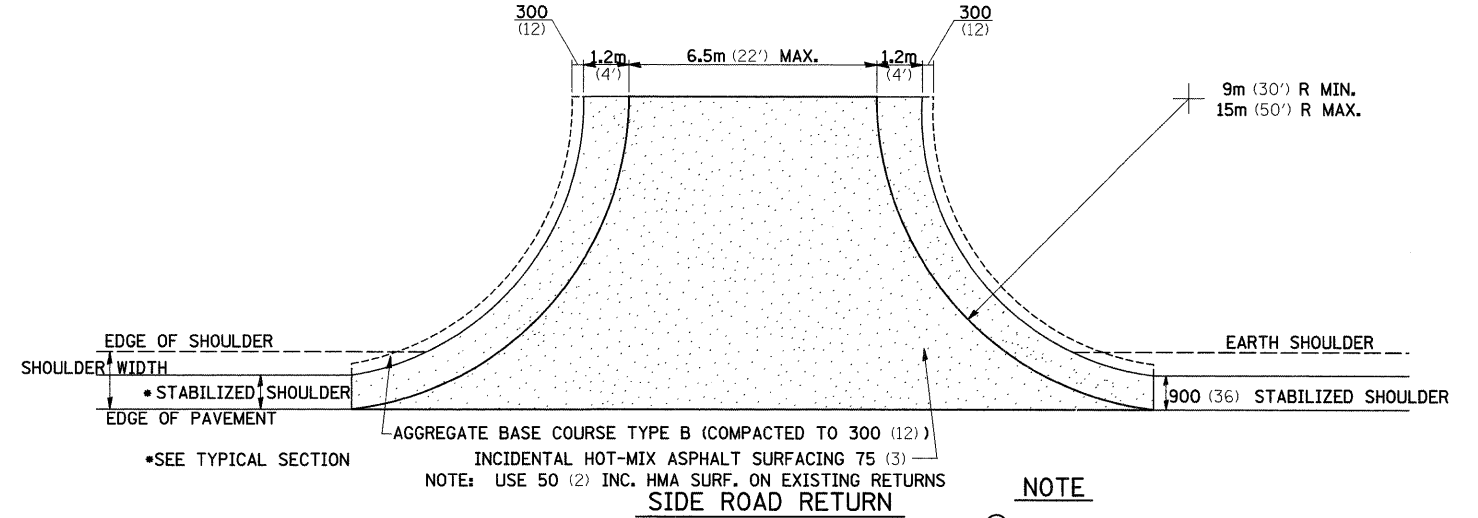
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	37
CONTRACT NO. 64737				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 50.0000' / IN SHEET NO. OF SHEETS STA. TO STA.

ENTRANCES, SIDEROADS, AND MAILBOX RETURNS WITH 3' OR 10' HOT-MIX ASPHALT SHOULDERS

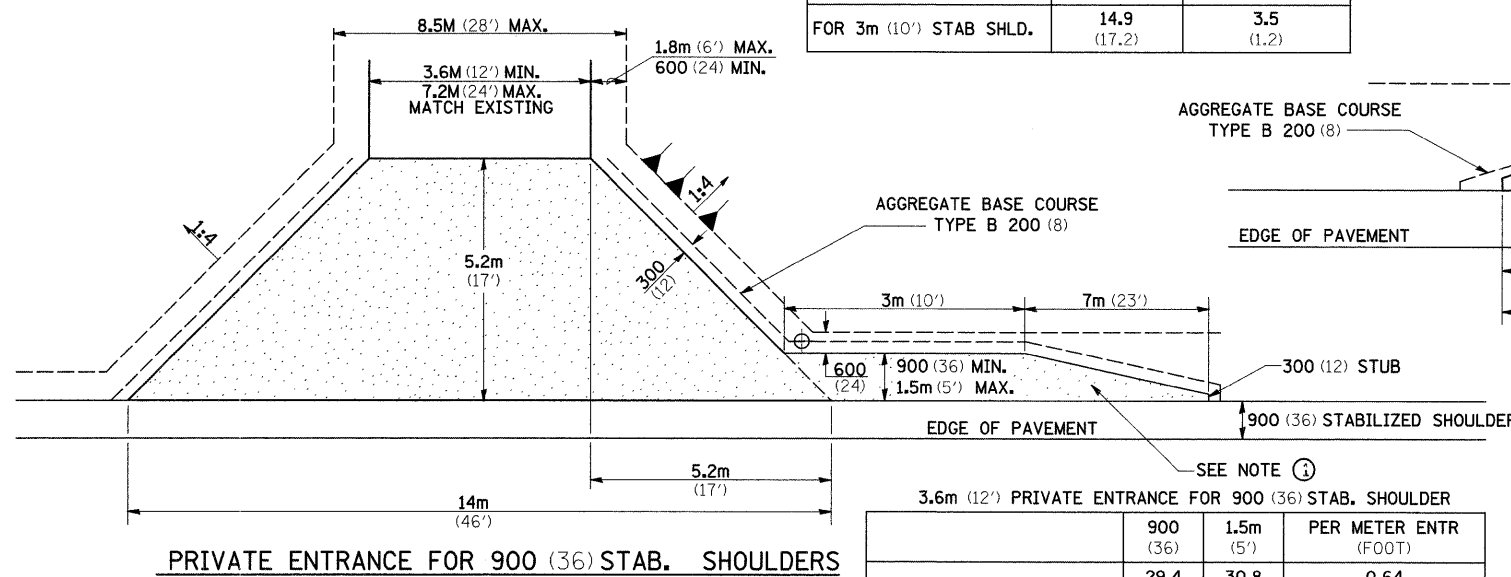


AGG BASE CSE TYPE B M TON (TON)	APRON M TON (TON)	PER METER (FOOT) ADD. RUN
FOR 900 (36) STAB SHLD.	31.3 (35.3)	3.5 (1.2)
FOR 3m (10') STAB SHLD.	14.9 (17.2)	3.5 (1.2)



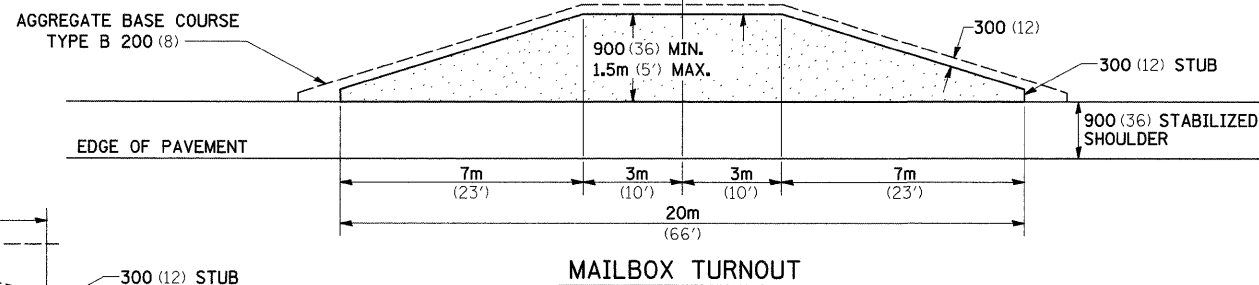
NOTE

- ① ALL ENTRANCES TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
- ② TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
- ③ ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- ④ FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN WHICH EVER IS GREATER.
- ⑤ QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
- ⑥ ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

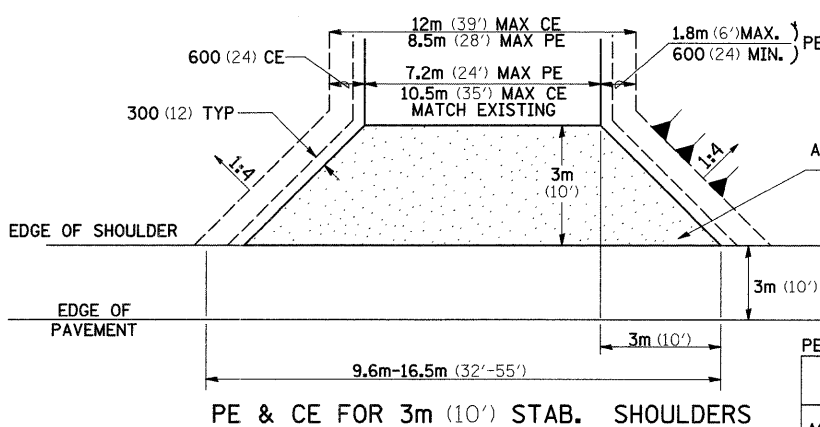


3.6m (12') PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE (TON)	29.4 (32.4)	30.8 (33.9)	0.64 (0.7)
INC HMA SURF 50 (2) (TON)	7.8 (8.6)	8.4 (9.3)	0.17 (0.19)
BIT PRIME COAT (TON)	0.08 (0.09)	0.09 (0.10)	0.006 (0.002)

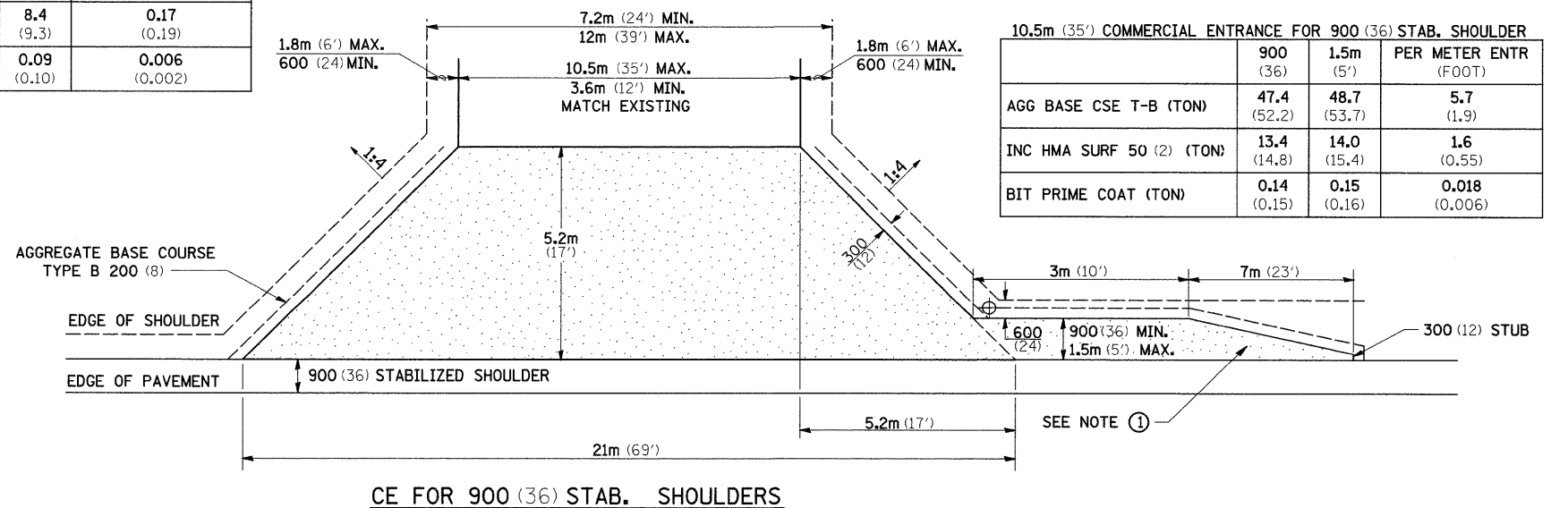


	900 (36)	1.5m (5')
AGG BASE CSE T-B (TON)	10.7 (11.8)	14.4 (15.9)
INC BIT SURF 50 (2) (TON)	2.2 (2.4)	3.4 (3.8)
BIT PRIME COAT (TON)	0.02 (0.02)	0.04 (0.04)



PE & CE FOR 3m (10') STAB. SHOULDER

	3.6m PE (12')	10.5m CE (35')
AGG BASE CSE (TON)	11.4 (12.6)	21.9 (24.2)
INC HMA SURF (TON)	3.1 (3.4)	6.3 (7.0)
PRIME (TON)	0.04 (0.04)	0.06 (0.07)



10.5m (35') COMMERCIAL ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	47.4 (52.2)	48.7 (53.7)	5.7 (1.9)
INC HMA SURF 50 (2) (TON)	13.4 (14.8)	14.0 (15.4)	1.6 (0.55)
BIT PRIME COAT (TON)	0.14 (0.15)	0.15 (0.16)	0.018 (0.006)

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED - 1-15-08
cd:\pw_work\pwsdot\hensonke\dms34329\d21801-ah-standards.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

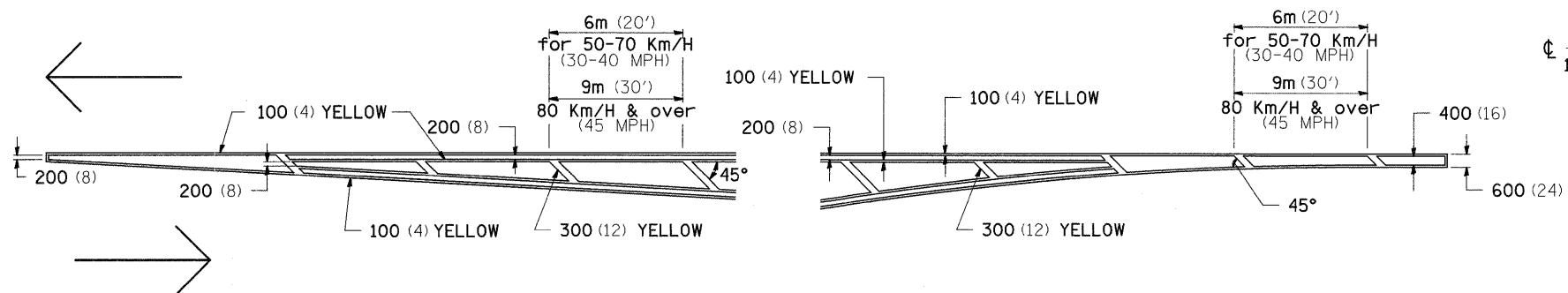
REGION 2 / DISTRICT 2 STANDARD

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					599	103MFT-T	ROCK ISLAND	55	38

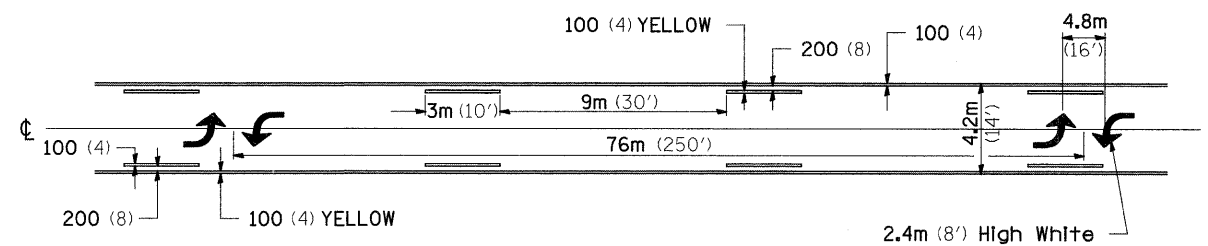
CONTRACT NO. 64737
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

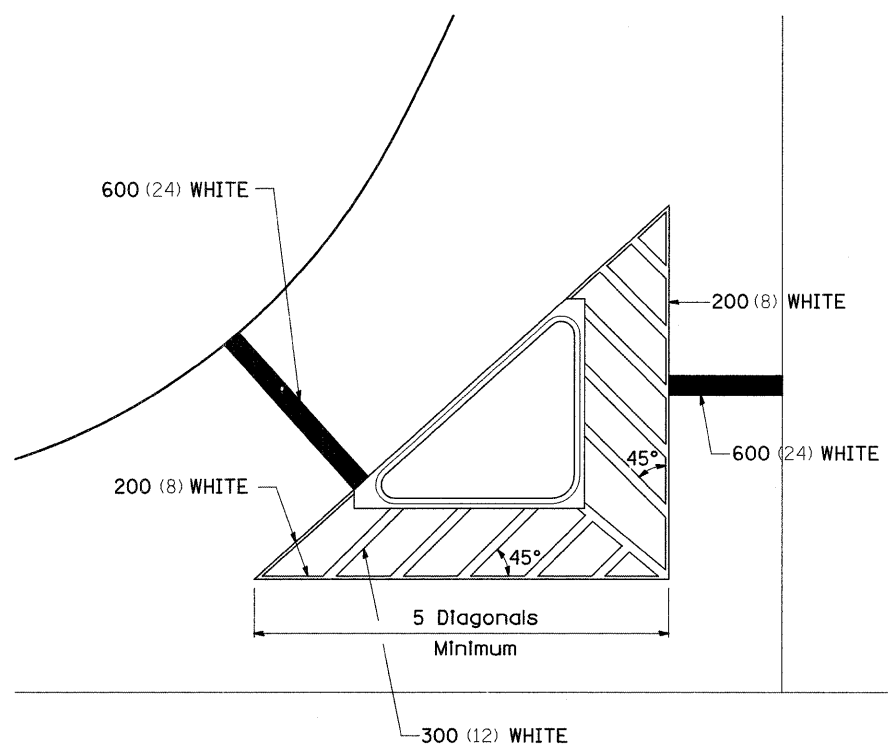


MEDIAN PAVEMENT MARKING

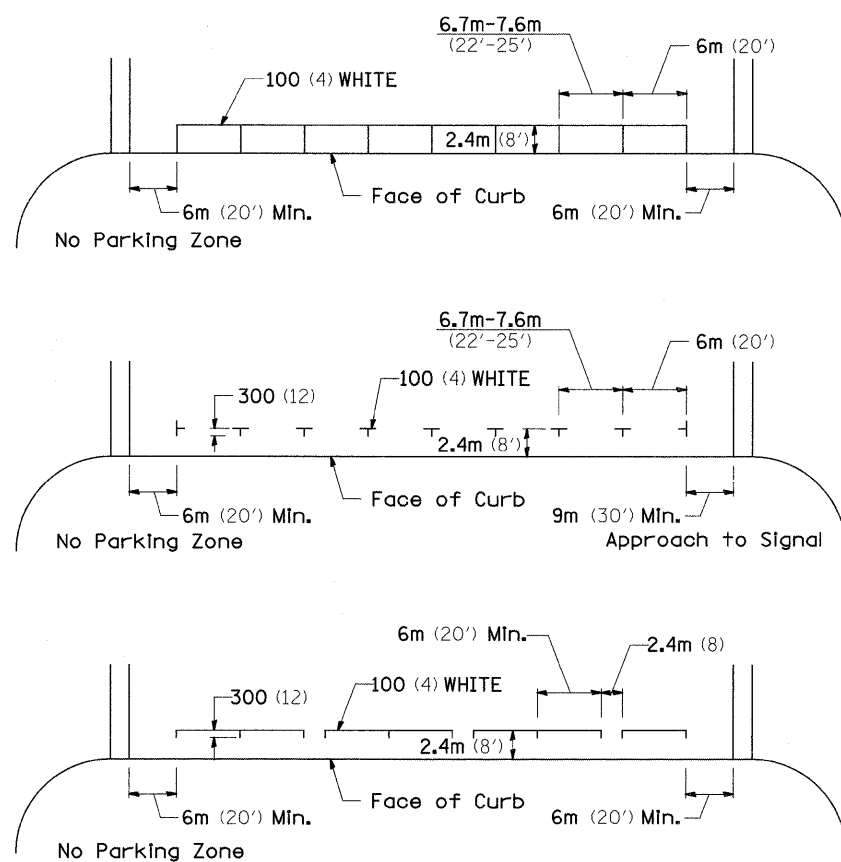


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

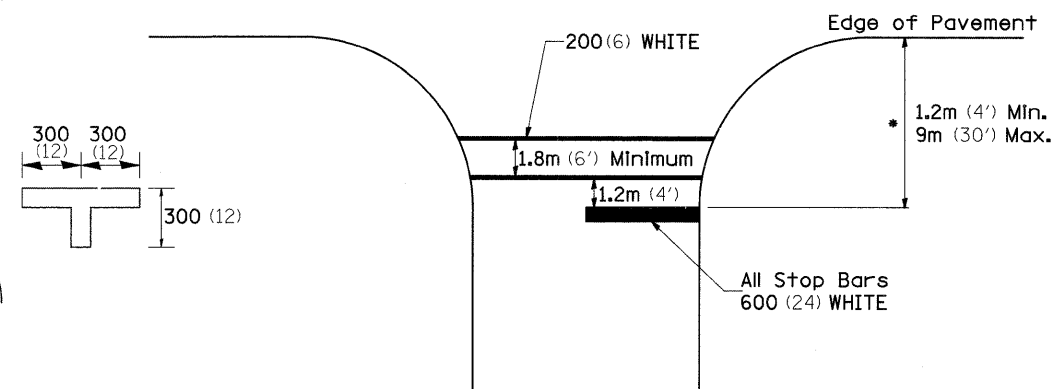


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

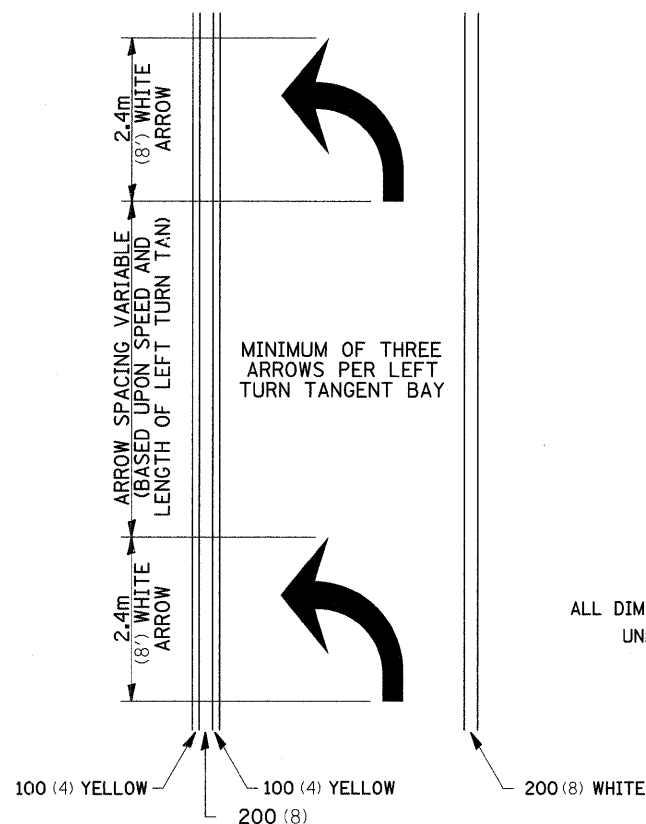


* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr\pwr_work\pwr\dot\hensonke\dms34329\d21001-sht-standard.dgn	DRAWN -	REVISED -	599					103MFT-T	ROCK ISLAND	55	39	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64737									
PLOT DATE = Thu Dec 04 08:57:54 2008	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

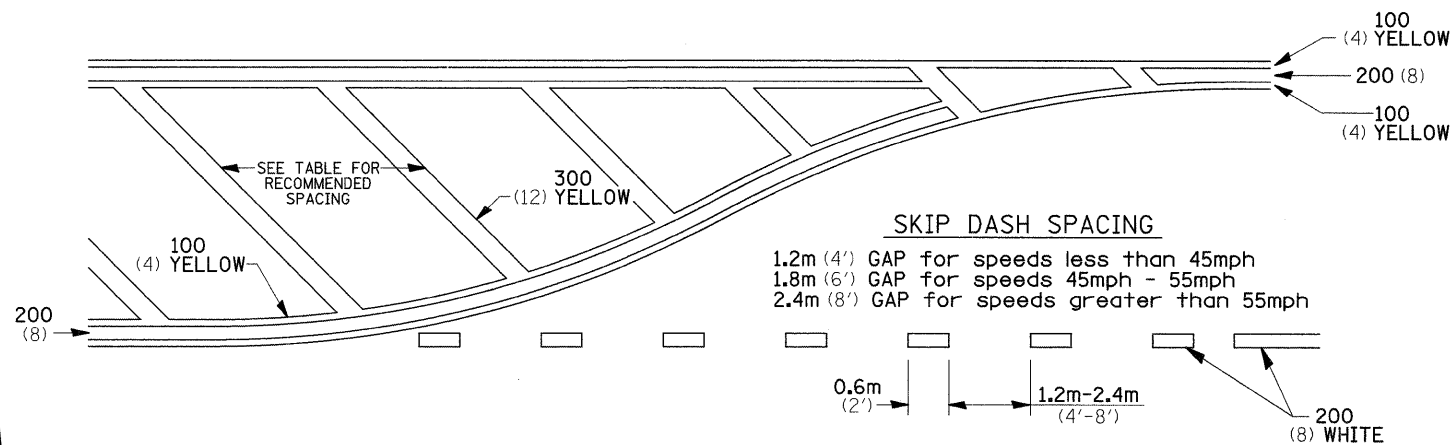


12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

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

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

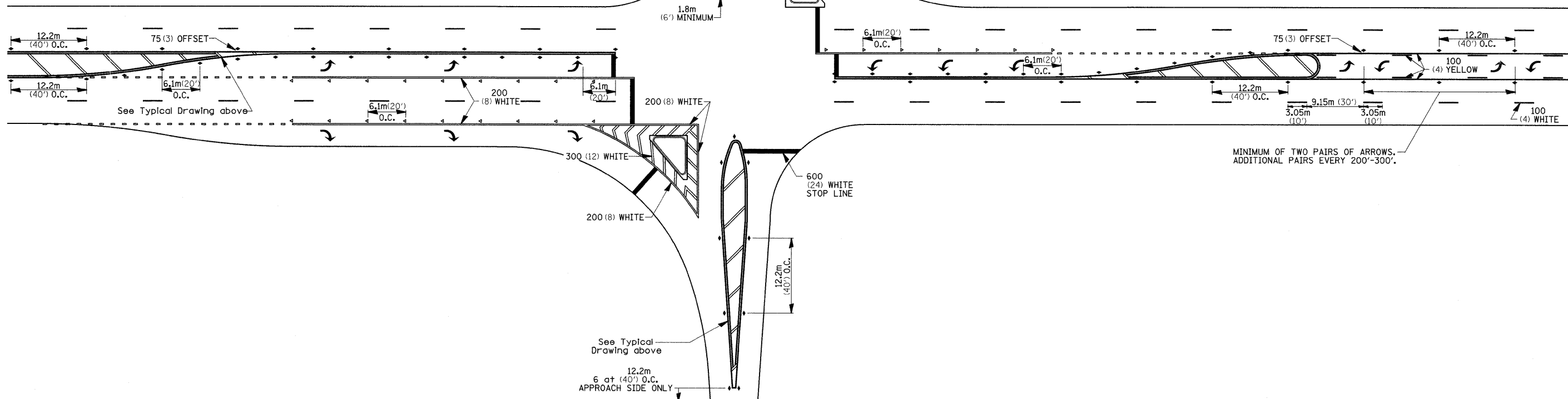
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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')

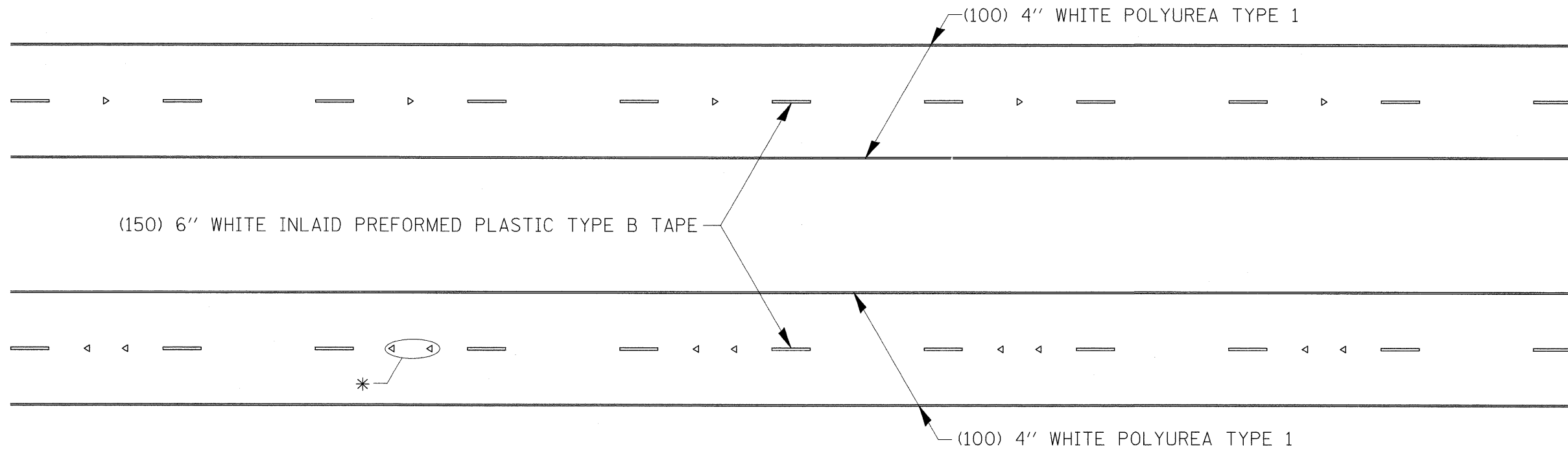
NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



MINIMUM OF TWO PAIRS OF ARROWS.
ADDITIONAL PAIRS EVERY 200'-300'.

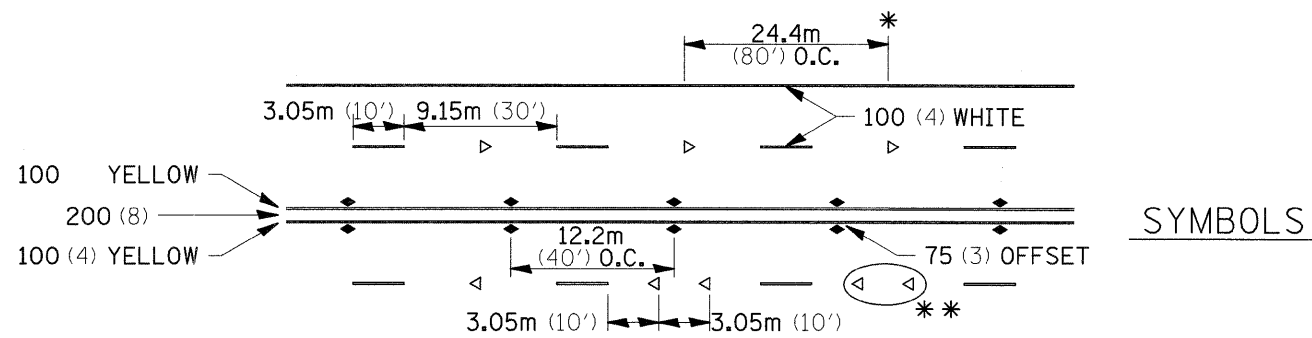
FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\pwsdot\hensonke\dms34329\d218001-sh1-standards.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			599	103MFT-T	ROCK ISLAND	55	40	
PLOT DATE = Thu Dec 04 08:57:55 2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64737					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 25,000.

MULTI-LANE / DIVIDED

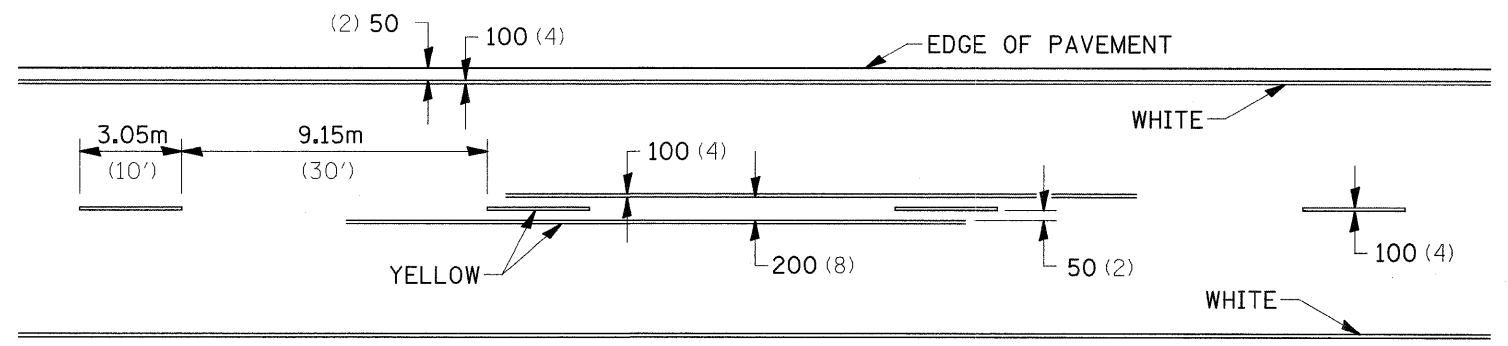


* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

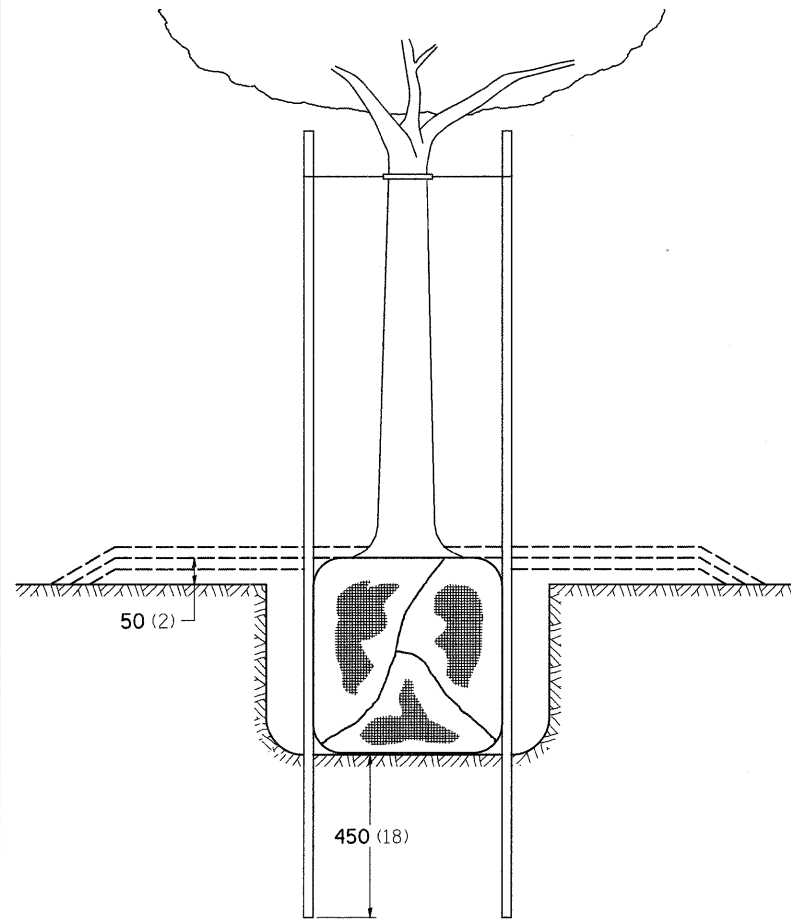
MULTI-LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES

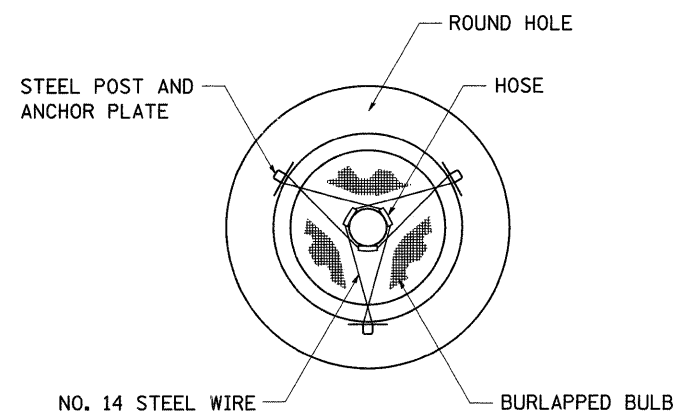


FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
c:\pwwork\pwwork\hensonke\dms34329\d210801-shr-standards.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	599	103MFT-T	ROCK ISLAND	55	41
		CHECKED -	REVISED -						CONTRACT NO. 64737						
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										

DETAILS OF PLANTING AND BRACING TREES

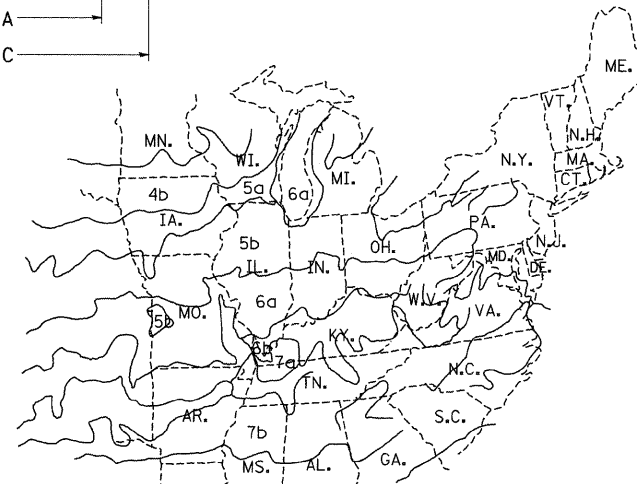
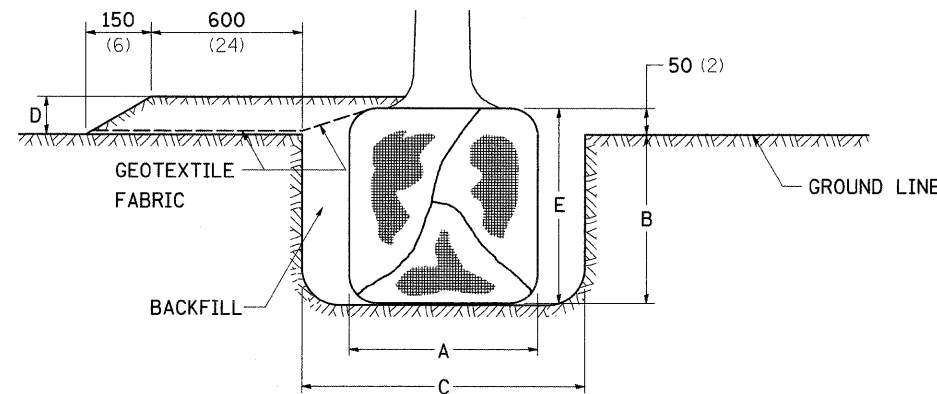


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



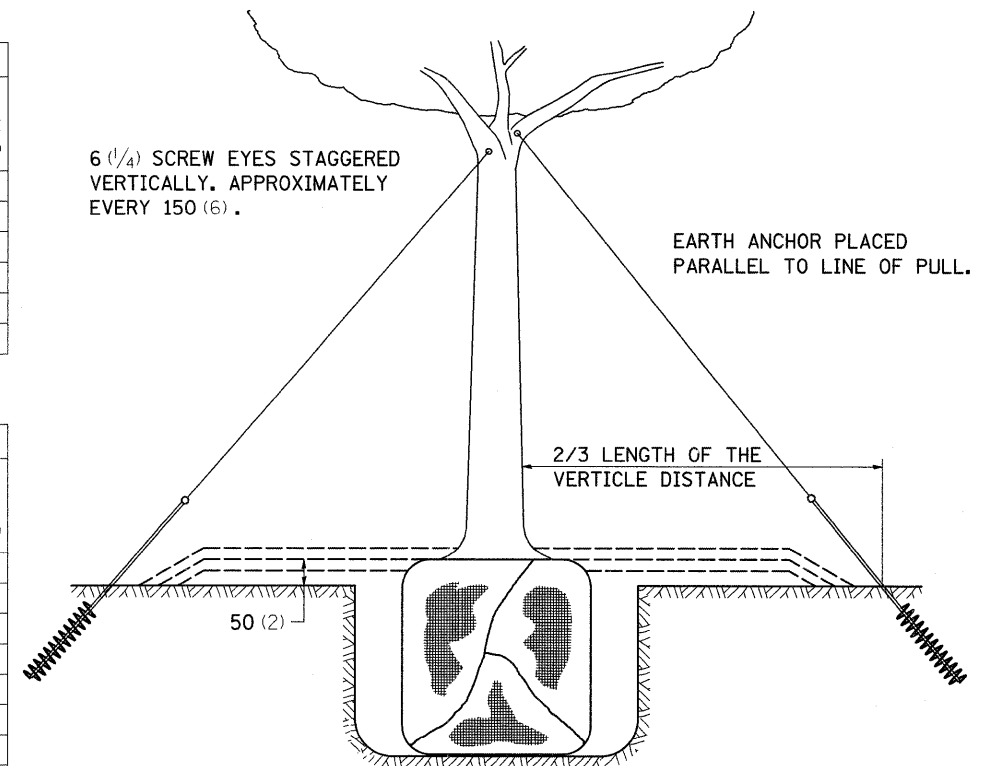
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (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	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	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)

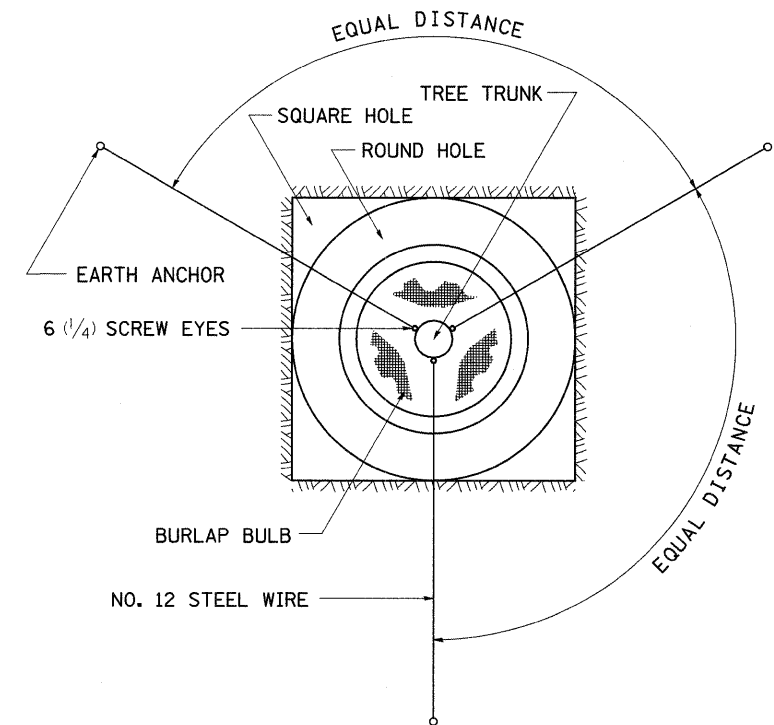


PLANT HARDINESS ZONE MAP

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



TREES OVER 115 (4 1/2) IN DIAMETER

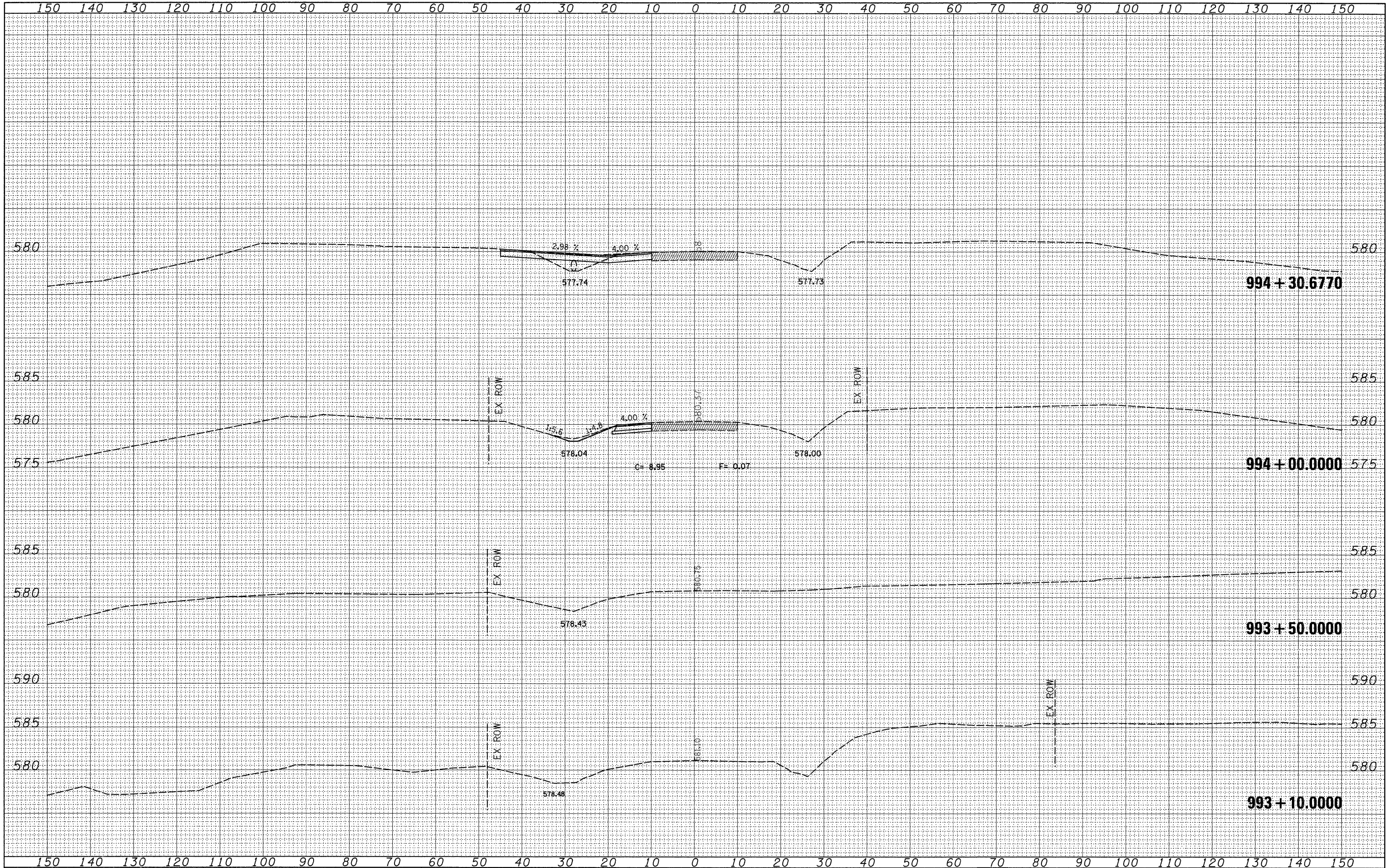


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED - 10-15-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pw_work\pwsdot\hensonke\dms34329\d21801-sht-standards.dgn	DRAWN -	REVISED -	599			103MFT-T	ROCK ISLAND	55	42	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64737							
PLOT DATE = Thu Dec 04 08:57:56 2008	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

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

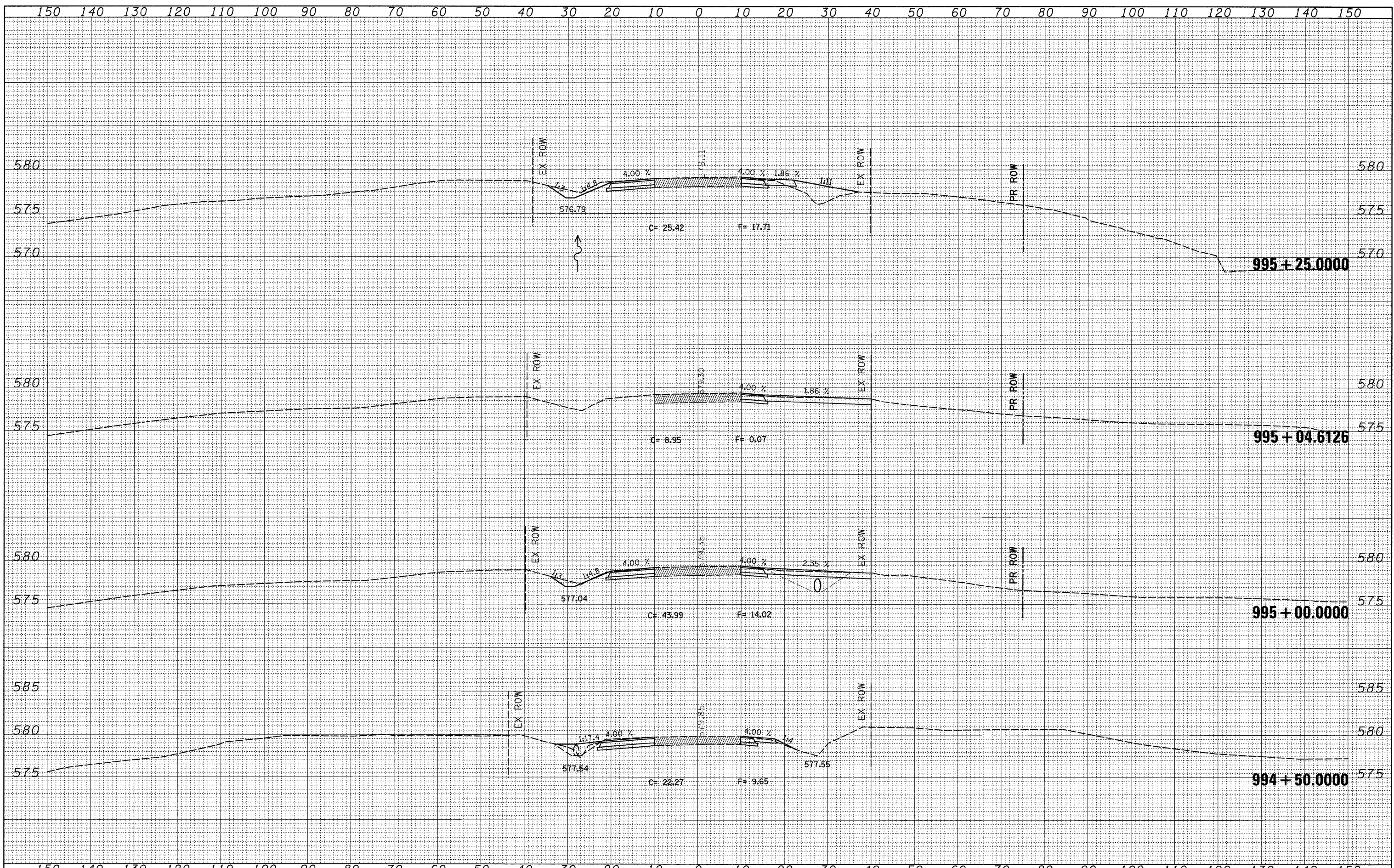
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				IL 92 CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\p\p\dot\hensonke\dms34331\d10001.kml.dgn	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -									599	103MFT-T	ROCK ISLAND	55	43
	PLOT DATE = Wed Dec 03 14:53:58 2008	CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. 993+10.0000 TO STA. 994+30.6770				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 64737								

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

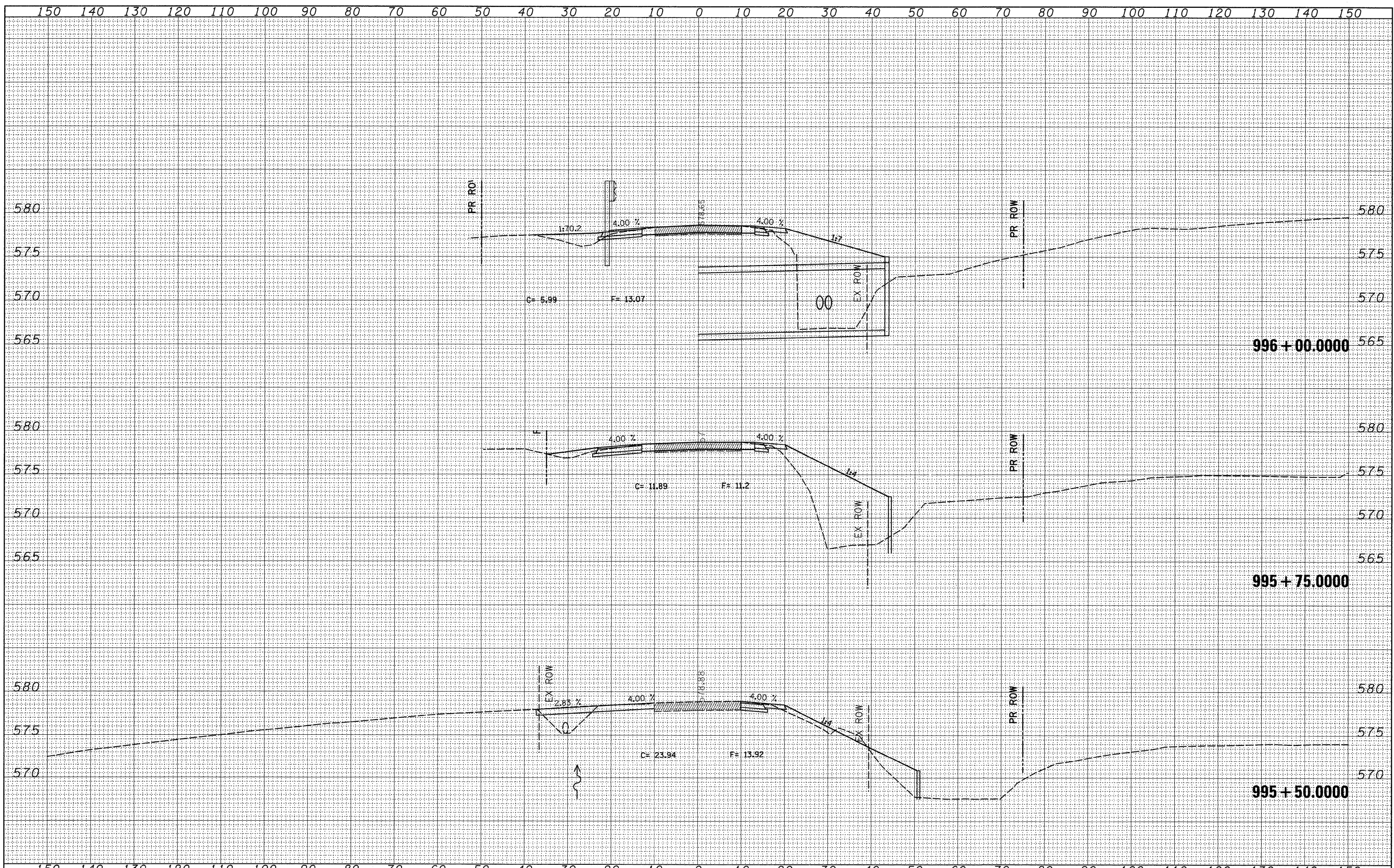
DATE	
BY	
NO.	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



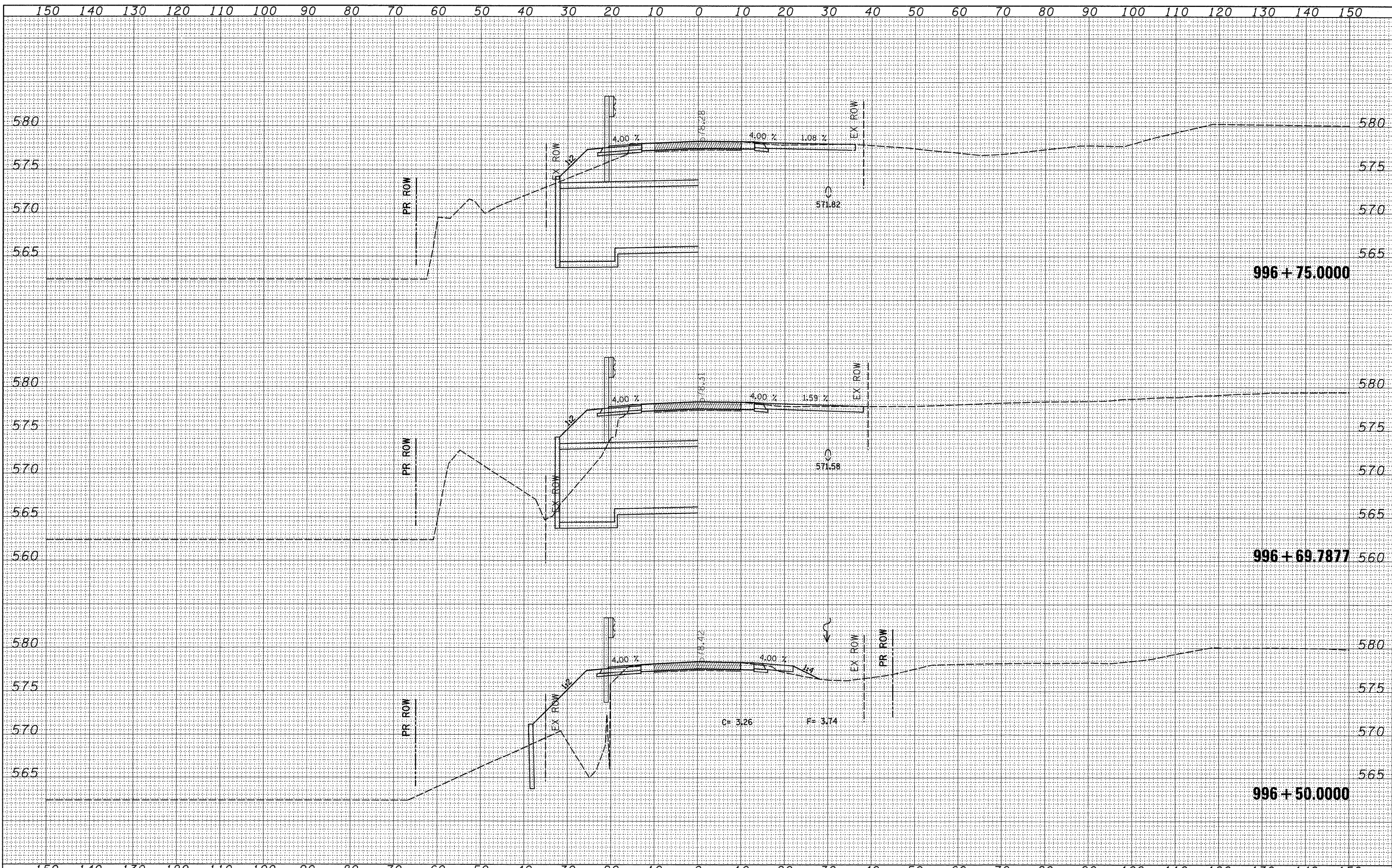
FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	IL 92 CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw_work\pw\dot\hensonke\dms34331\d10001.xml.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				599	103MFT-T	ROCK ISLAND	55	44	
		CHECKED -	REVISED -	SCALE:				SHEET NO.	OF	SHEETS	STA. 994+50.0000 TO STA. 995+25.0000	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
		DATE -	REVISED -									CONTRACT NO. 64737	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IL 92 CROSS SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwidot\hensonke\dms34331\d10901.xml.dgn		DRAWN -	REVISED -			599	103MFT-T	ROCK ISLAND	55	45		
	PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA. 995+50.0000 TO STA. 996+00.0000	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64737	
	PLOT DATE = Wed Dec 03 14:53:59 2008	DATE -	REVISED -									



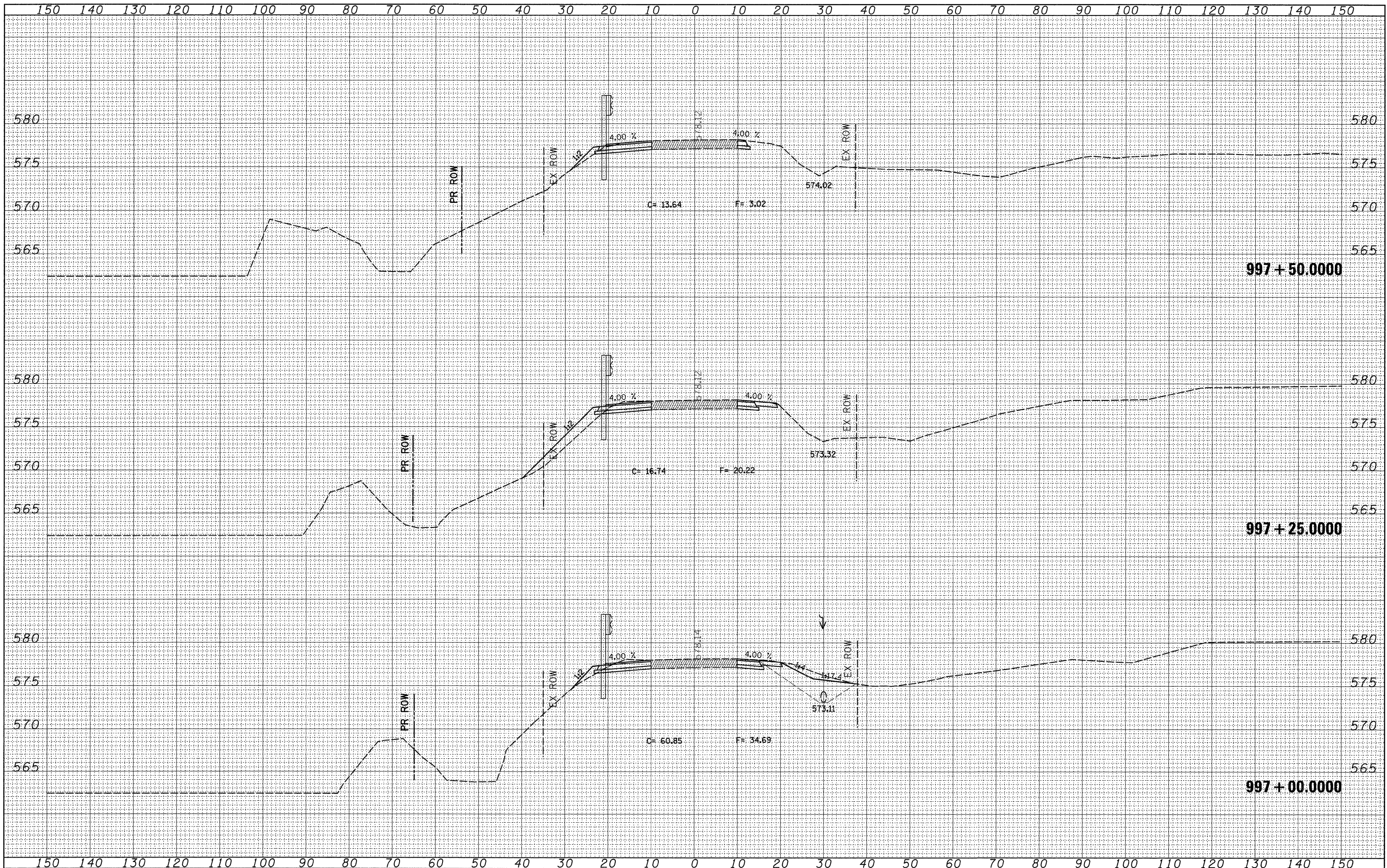
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				IL 92 CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\pwr\dms\hensonke\dms34331\d10001.xml.dgn	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -					SCALE:	SHEET NO.	OF	SHEETS	STA. 996+50.0000 TO STA. 996+75.0000	599	103MFT-T	ROCK ISLAND	55
	PLOT DATE = Wed Dec 03 14:54:00 2008	CHECKED -	REVISED -									CONTRACT NO. 64737				
		DATE -	REVISED -									FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =
 c:\p_w\work\p\ridot\hensonke\dms34331\d10801.xml.dgn

USER NAME = hensonke
 PLLOT SCALE = 10.0000' / IN.
 PLOT DATE = Wed Dec 03 14:54:01 2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

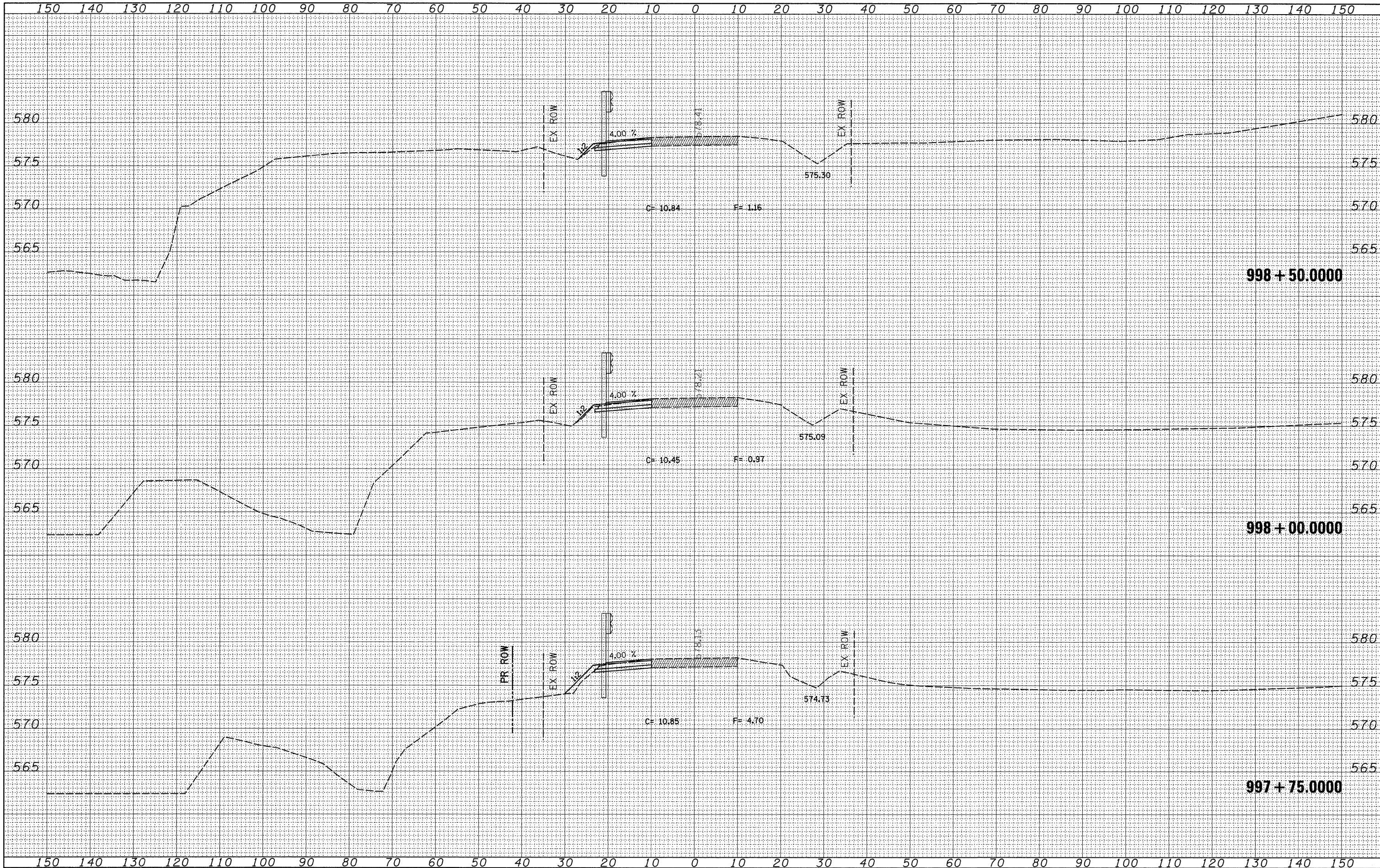
IL 92 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 997+00.0000 TO STA. 997+50.0000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	48
CONTRACT NO. 64737				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =
 cr:\pw_work\p14dot\hensonke\dms34331\d10001.xml.dgn

USER NAME = hensonke
 DESIGNED -
 DRAWN -
 CHECKED -
 PLOT DATE = Wed Dec 03 14:54:01 2008

REVISOR -
 REVISIONS -
 REVISIONS -
 REVISIONS -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 92 CROSS SECTIONS

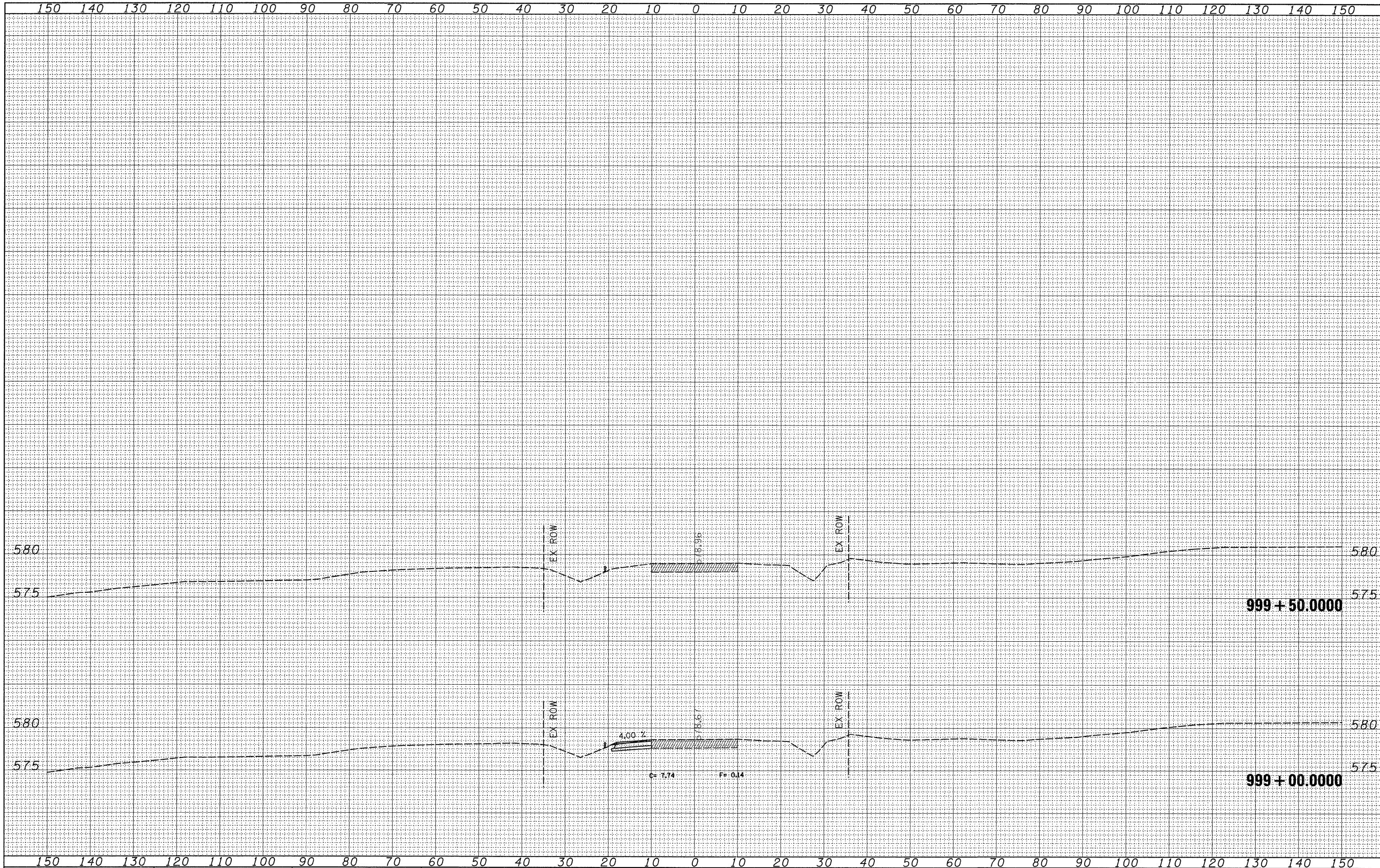
SCALE: SHEET NO. OF SHEETS STA. 997+75.000 TO STA. 998+50.000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	49
CONTRACT NO. 64737				

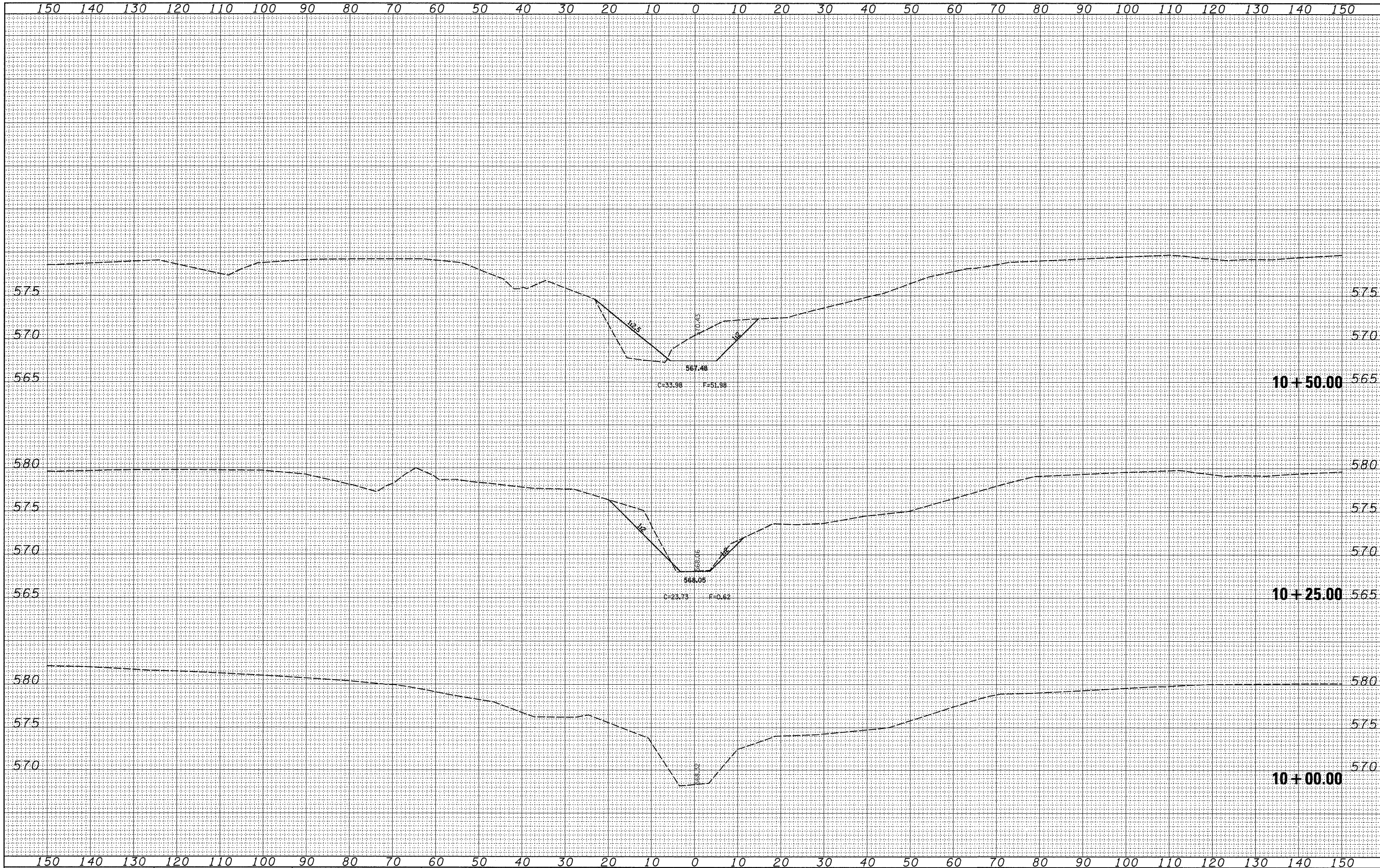
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	IL 92 CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\prdot\hensonke\dms34331\d10001.xml.dgn		DRAWN -	REVISED -					599	103MFT-T	ROCK ISLAND	55	50
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 64737				
PLOT DATE = Wed Dec 03 14:54:02 2008		DATE -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. 999+00.0000 TO STA. 999+50.0000				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	

FILE NAME =
 c:\pw_work\pwr1dot\hensonke\dms34331\d10001x.mxd

USER NAME = hensonke
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = Wed Dec 03 14:54:02 2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STREAMBED CROSS-SECTIONS

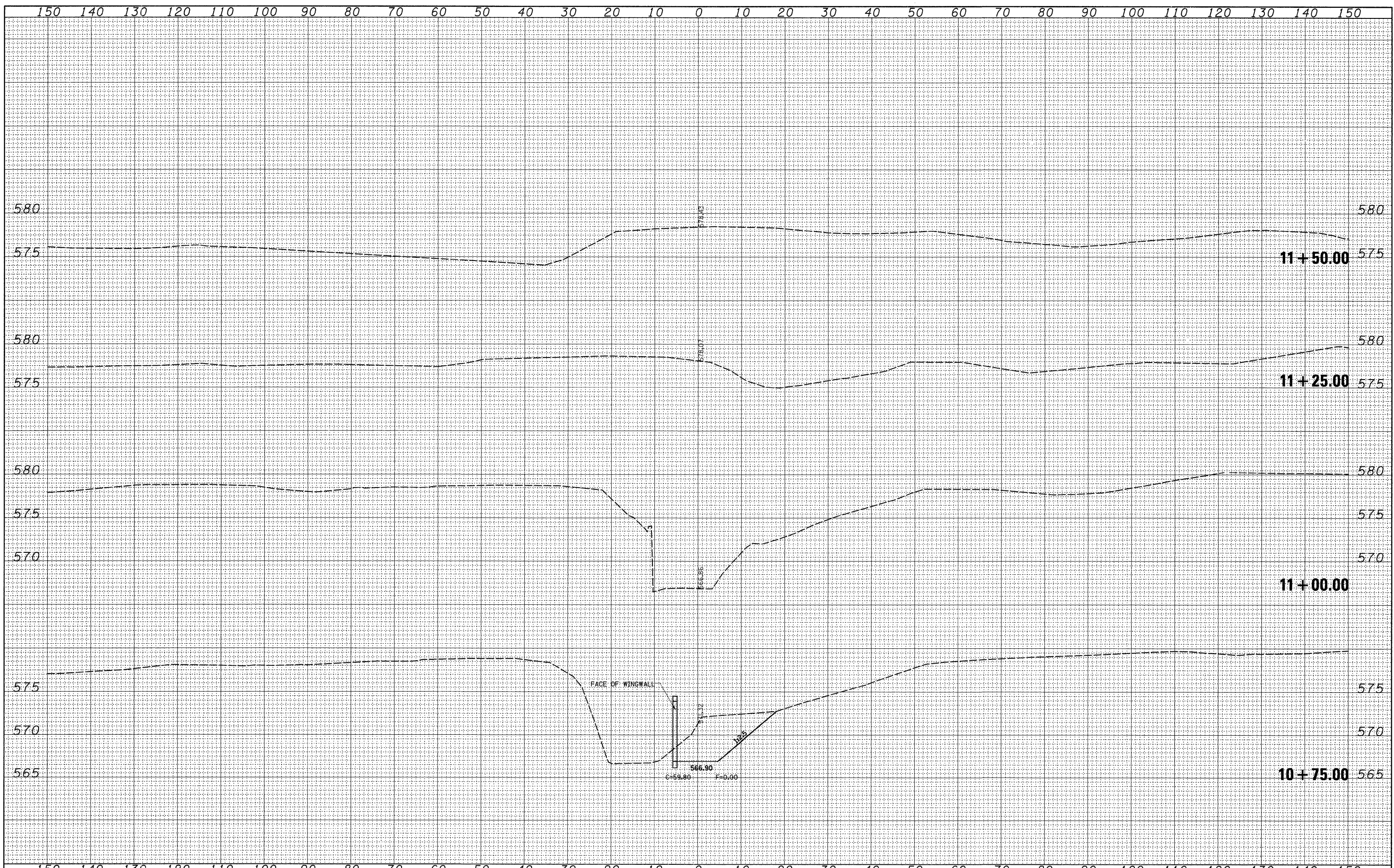
SCALE: SHEET NO. OF SHEETS STA. 10+00.00 TO STA. 10+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	51
CONTRACT NO. 64737				

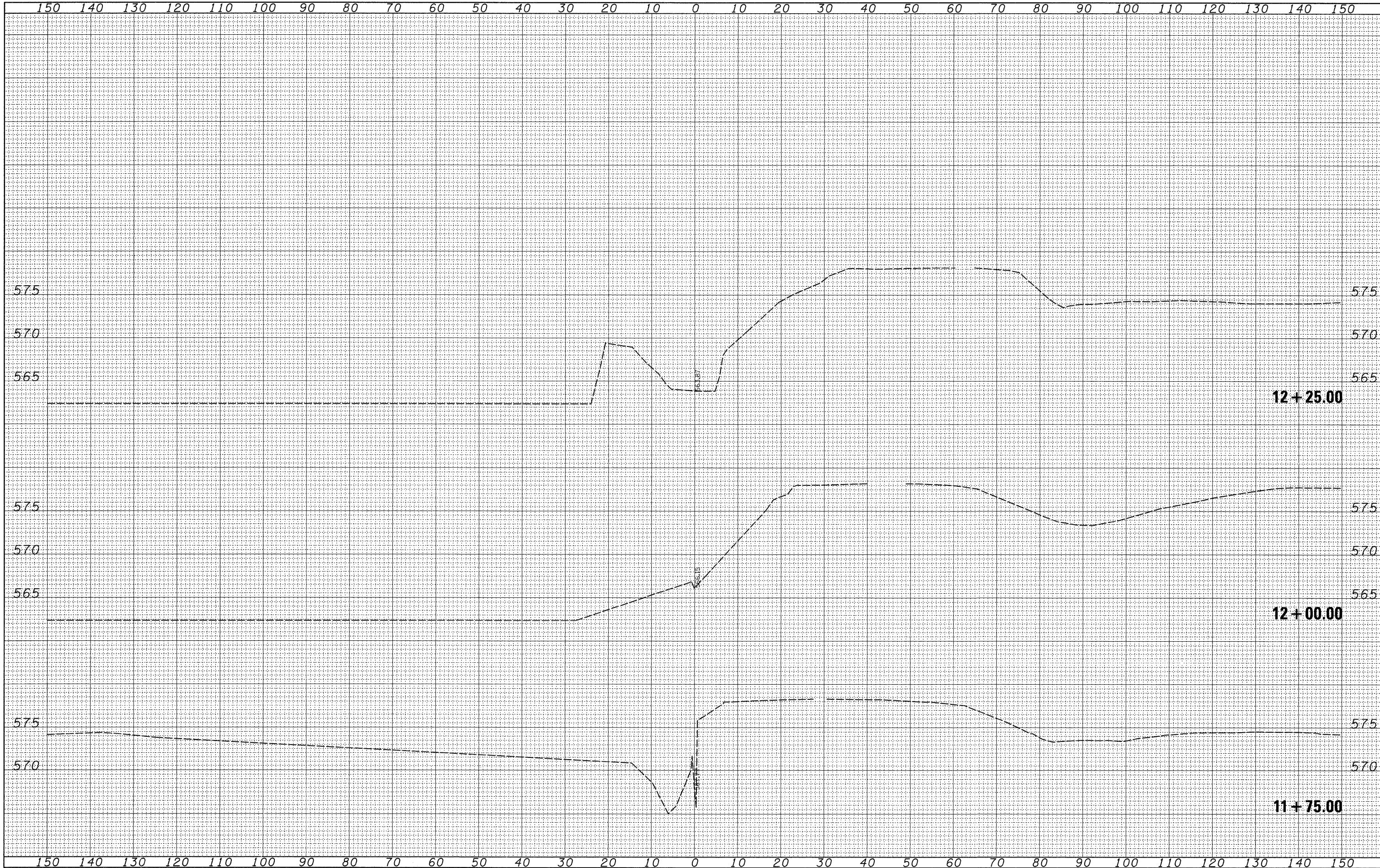
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET NO. OF SHEETS	STA. 10+75.00 TO STA. 11+50.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\pw\dtd\hensonke\dms34331\d10901.xml.dgn	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -					599	103MFT-T	ROCK ISLAND	55	52
PLOT DATE = Wed Dec 03 14:54:03 2008	DATE -	CHECKED -	REVISED -					CONTRACT NO. 64737				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

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

FILE NAME =
 c:\pw_work\p12dot\hensonke\dms34331\dl0801.xml.dgn

USER NAME = hensonke
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = Wed Dec 03 14:54:03 2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STREAMBED CROSS SECTIONS

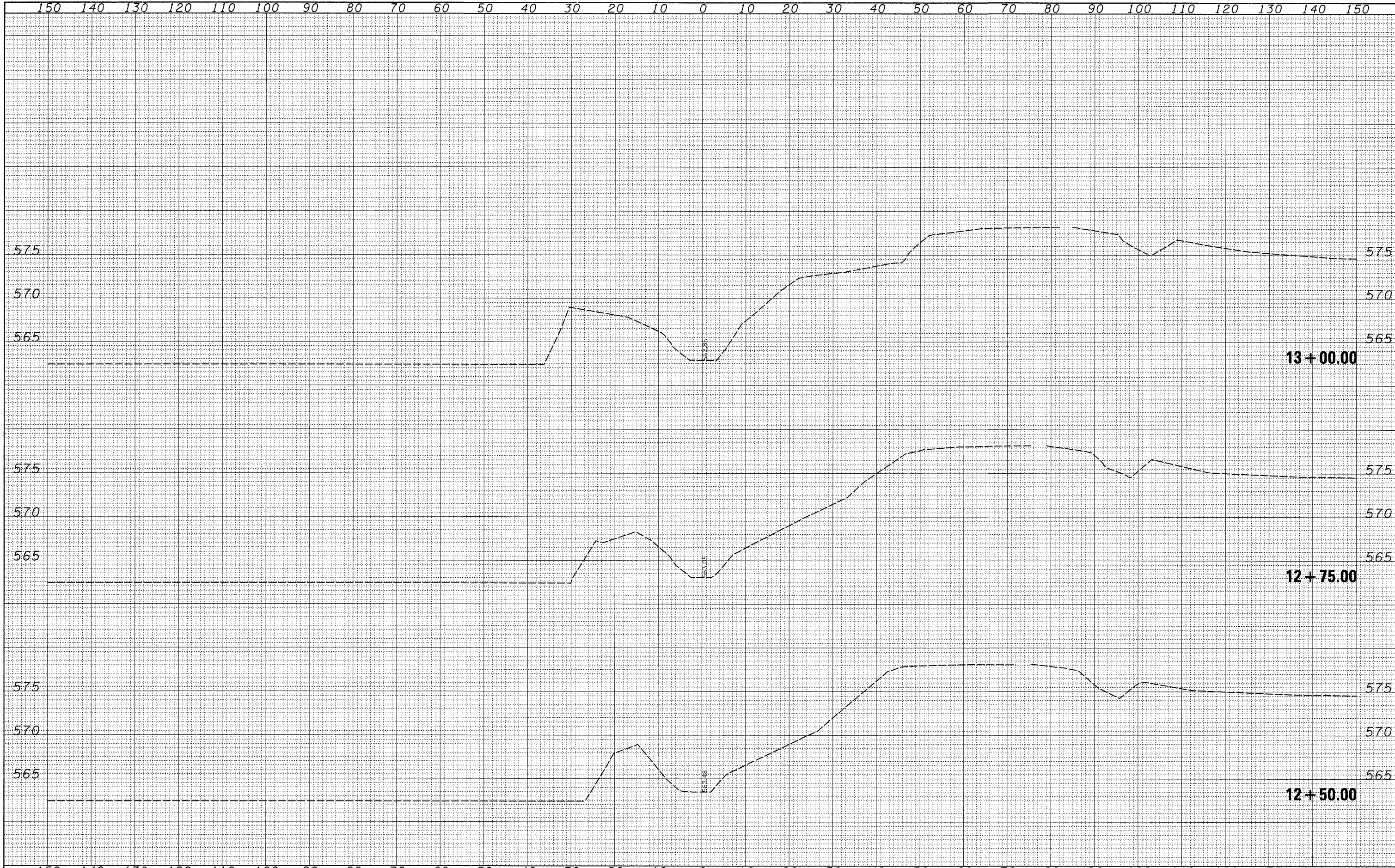
SCALE: SHEET NO. OF SHEETS STA. 11+75.00 TO STA. 12+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	103MFT-T	ROCK ISLAND	55	53
CONTRACT NO. 64737				

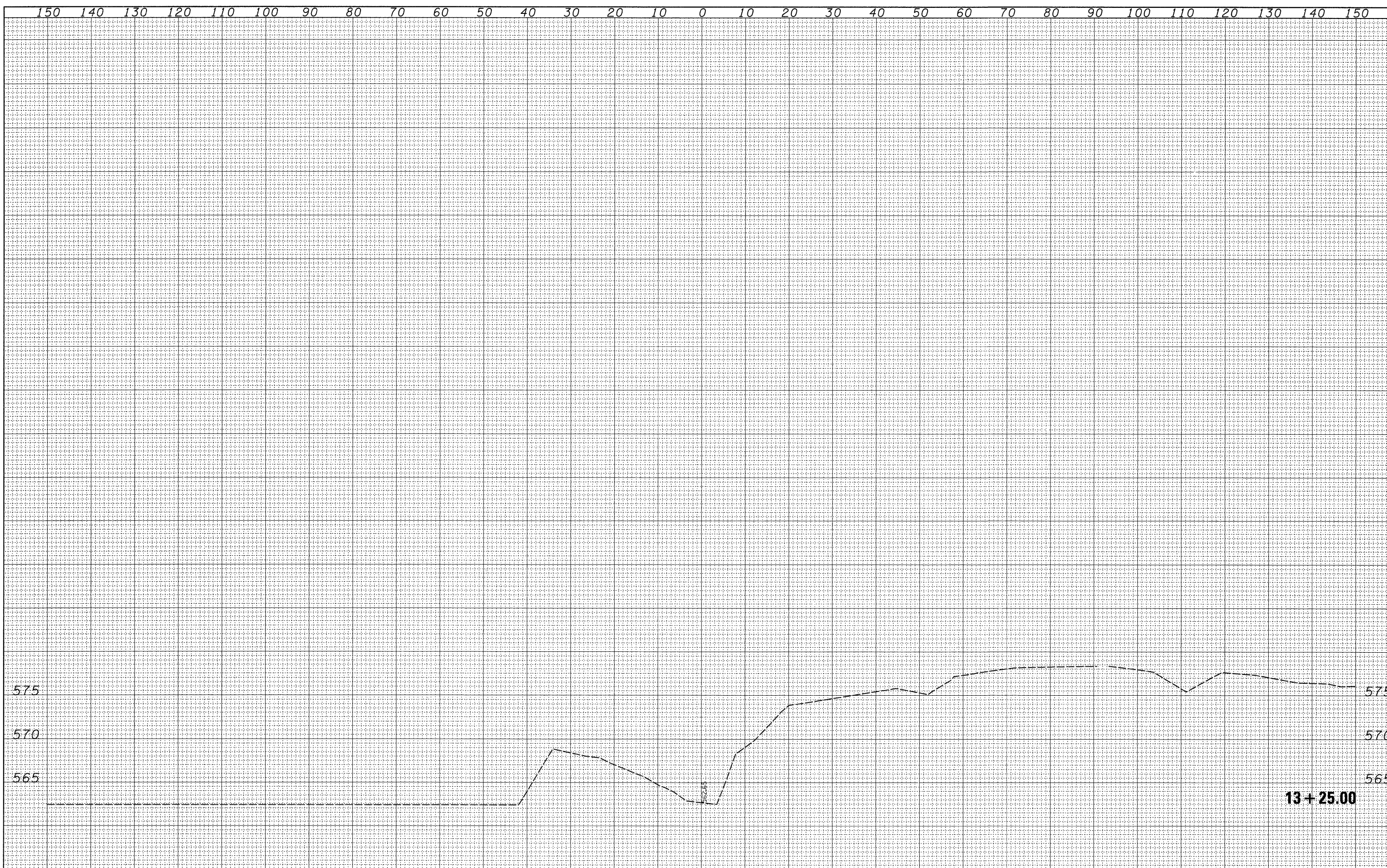
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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

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



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				STREAMBED CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
ci:\pw_work\pwr\dot\hensonke\dms34331\dl0801x.mxd		DRAWN -	REVISED -									599	103MFT-T	ROCK ISLAND	55	54			
		CHECKED -	REVISED -									SCALE: SHEET NO. OF SHEETS STA. 12+50.00 TO STA. 13+00.00				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -									CONTRACT NO. 64737							



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

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

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STREAMBED CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw_work\pwwork\hensonke\dms34331\dl0801.xml.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 13+25.00	TO STA. 13+25.00	599	103MFT-T	ROCK ISLAND	55
		CHECKED -	REVISED -											CONTRACT NO. 64737
		DATE -	REVISED -								FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	