

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4.	PLAN AND PROFILE
5.-17.	STATION CROSS SECTIONS
18.-24.	BRIDGE PLANS
25.	BORING

HIGHWAY STANDARDS:

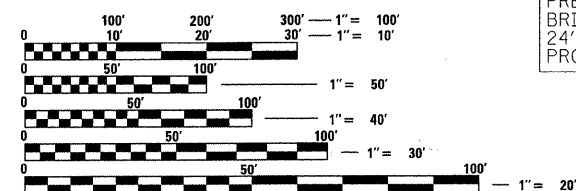
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701901-01	TRAFFIC CONTROL DEVICES
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL TYPE 5A

UTILITIES

FRONTIER COMMUNICATIONS (VERIZON)
104 MULBERRY
NORMAL, IL 61761
ATTN: MARY RUTH WILLIS

SALINE VALLEY CONSERVANCY DISTRICT
900 DEWEY STREET
PO BOX 369
ELDORADO, IL 62930
ATTN: MARK FULKERSON

SOUTHEASTERN ILLINOIS ELECTRIC COOPERATIVE
585 HIGHWAY 142 SOUTH
PO BOX 251
ELDORADO, IL 62930
ATTN: ERIC JUNG

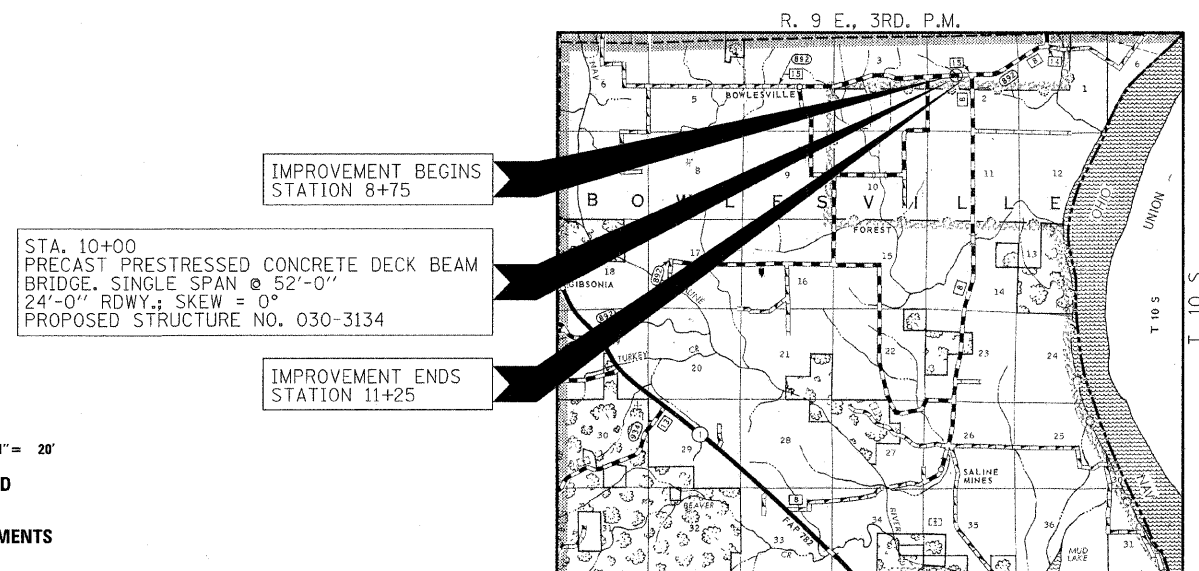


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. 99456

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED SURFACE TRANSPORTATION—RURAL

PROJECT RS-0892(108)
SECTION 10-00075-00-BR
GALLATIN COUNTY
F.A.S. 892 / C.H. 15 / RINGGOLD ROAD
PROPOSED STRUCTURE NO. 030-3134
C-99-554-10



LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 250 FEET = 0.0473 MILES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 892	10-00075-00-BR	GALLATIN	25	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 99456		

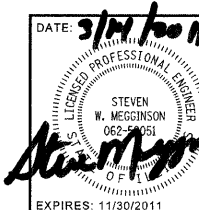


LOCATION OF SECTION INDICATED THUS: — ■ —

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN <400 ADT)
DESIGN SPEED: 40 MPH
DESIGN TRAFFIC: 300 ADT



ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	3/16 20 11 Jim W. Brown COUNTY ENGINEER
PASSED	MARCH 29 20 11 Dennis W. Hill DISTRICT NINE ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	3/30 20 11 Mary C. Farnie DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS • STRUCTURAL ENGINEERS • LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

PROJECT NUMBER: 10.0231.130 DATE: 03/14/11

SUMMARY OF QUANTITIES			
CODE No.	ITEM	UNIT	TOTAL CONSTRUCTION TYPE CODE X080
20100500	TREE REMOVAL, ACRES	ACRE	0.1
20200100	EARTH EXCAVATION	CU YD	540
20300100	CHANNEL EXCAVATION	CU YD	435
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	134
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	22.0
50300280	CONCRETE ENCASEMENT	CU YD	2.8
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1248
50800105	REINFORCEMENT BARS	POUND	2340
* 50900205	STEEL RAILING, TYPE S1	FOOT	105
51201400	FURNISHING STEEL PILES HP10X42	FOOT	240
51202305	DRIVING PILES	FOOT	240
51500100	NAME PLATES	EACH	1
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
* ^ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
67100100	MOBILIZATION	L SUM	1
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1
^ X2810808	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	TON	630

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	20200100 CU.YD.	20300100 CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 348							
STA 8+75 TO STA 11+25	540		25.00%	100.00%	405	205	200
CHANNEL EXCAVATION		435	25.00%	70.00%	228	0	228
TOTAL	540	435			633	205	428
TOTAL USE	540	435					430

WASTE = 430 CU YDS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN CONTRACT. THE REMOVAL OF THE EXISTING AGGREGATE BASE COURSE AND A-3 SURFACE WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF AS APPROVED BY THE ENGINEER.
- THE LOCATIONS OF EXISTING ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

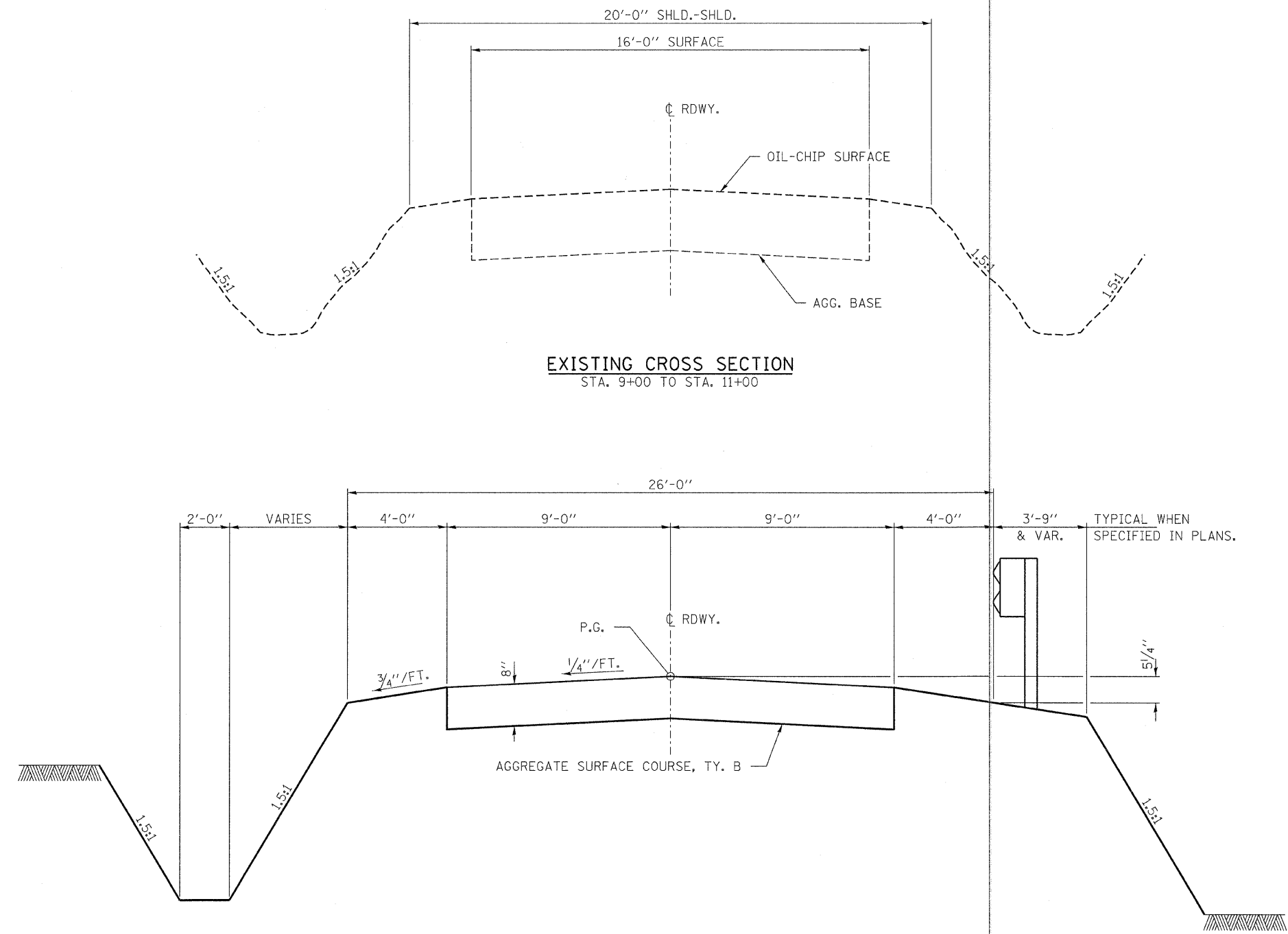
AGGREGATE SURFACE COURSE

2.05 TON/CU YD

STONE DUMPED RIPRAP

1.75 TON/CU YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.1 ACRES
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER. THE AREAS DESIGNATED FOR REMOVAL, SHALL BE MARKED AND MEASURED FOR PAYMENT BY THE ENGINEER BEFORE REMOVAL.

ROADWAY SCHEDULE	
LOCATION	AGGREGATE SURFACE COURSE TYPE B
	8"
	40200800
	TON
CH 15	
STA 9+00 TO STA 9+73.33	67
STA 10+26.67 TO STA 11+00	67
TOTAL	134

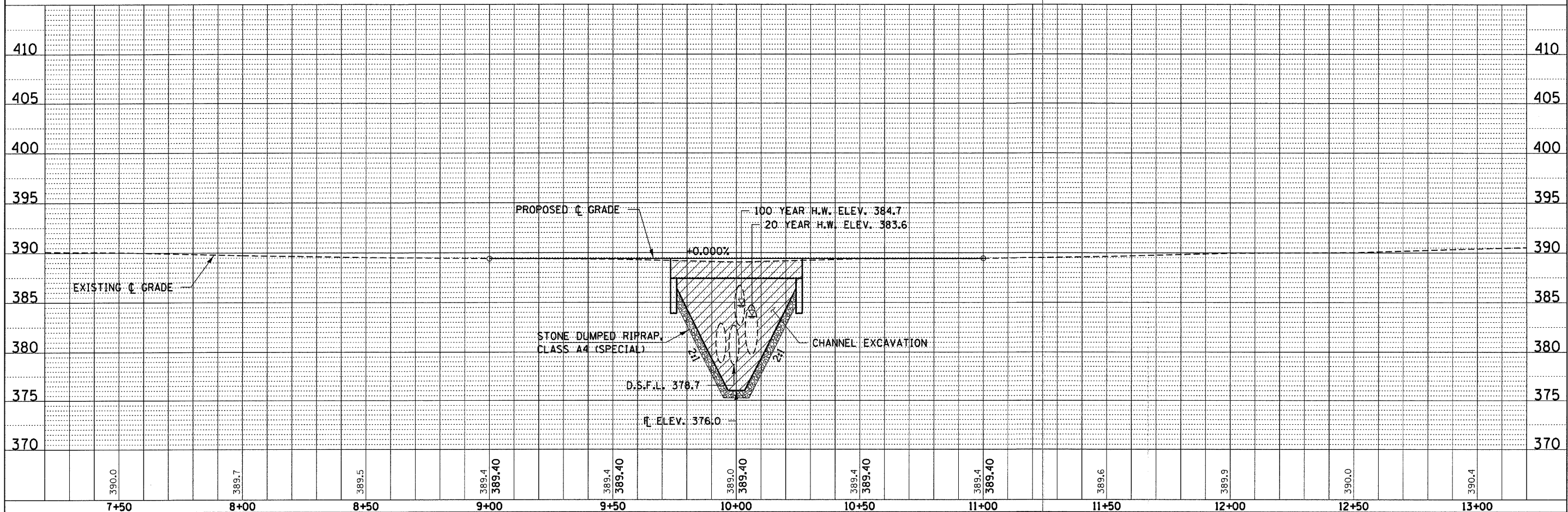
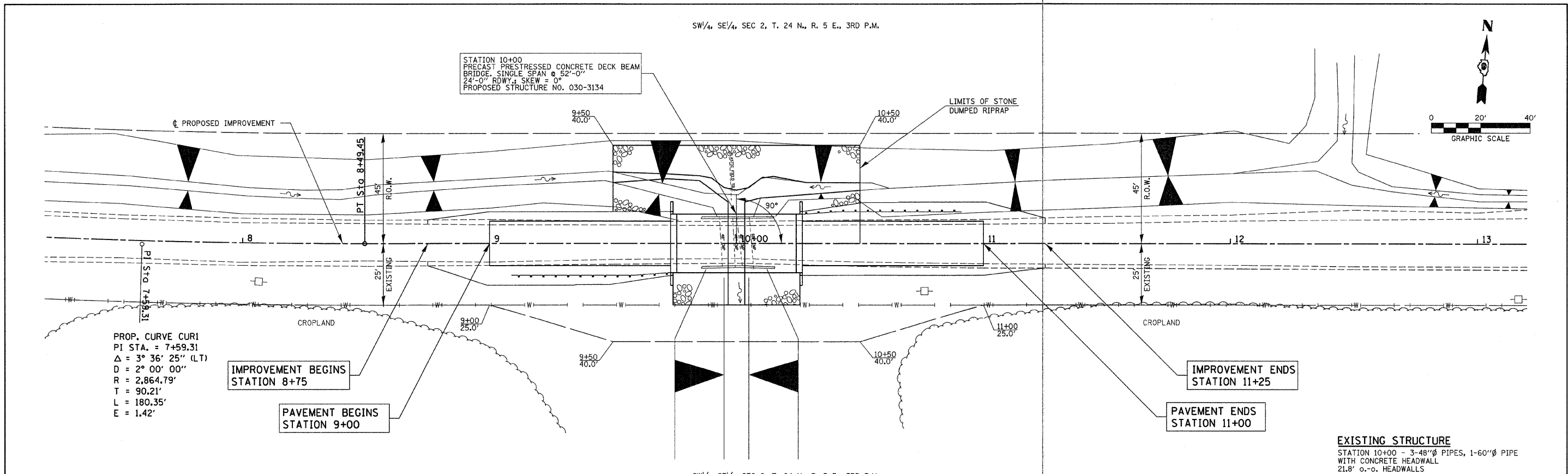


TYPICAL CROSS SECTION
STA. 9+00 TO 11+00
TRANSITION FROM EXISTING ROADWAY TO PROPOSED
ROADWAY TO BE CONSTRUCTED FROM STA. 8+75 TO
STA. 9+00 AND FROM STA. 11+00 TO STA. 11+25.

FILE NAME = 108231-shr-typecrosssections.dgn		USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS RINGGOLD ROAD				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		PLOT SCALE =	DRAWN - D.T.M.	REVISED -						892	10-00075-00-BR	GALLATIN	25	3
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		PLOT DATE = 3/14/2011	CHECKED - S.W.M.	REVISED -		CONTRACT NO. 99456								
		DATE - 03/14/11	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA.	TO STA.		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
NO.	RT. OF WAY CHECKED		
	ADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	NOTED		
NO.	STRUCTURE NOTATIONS CHFD		

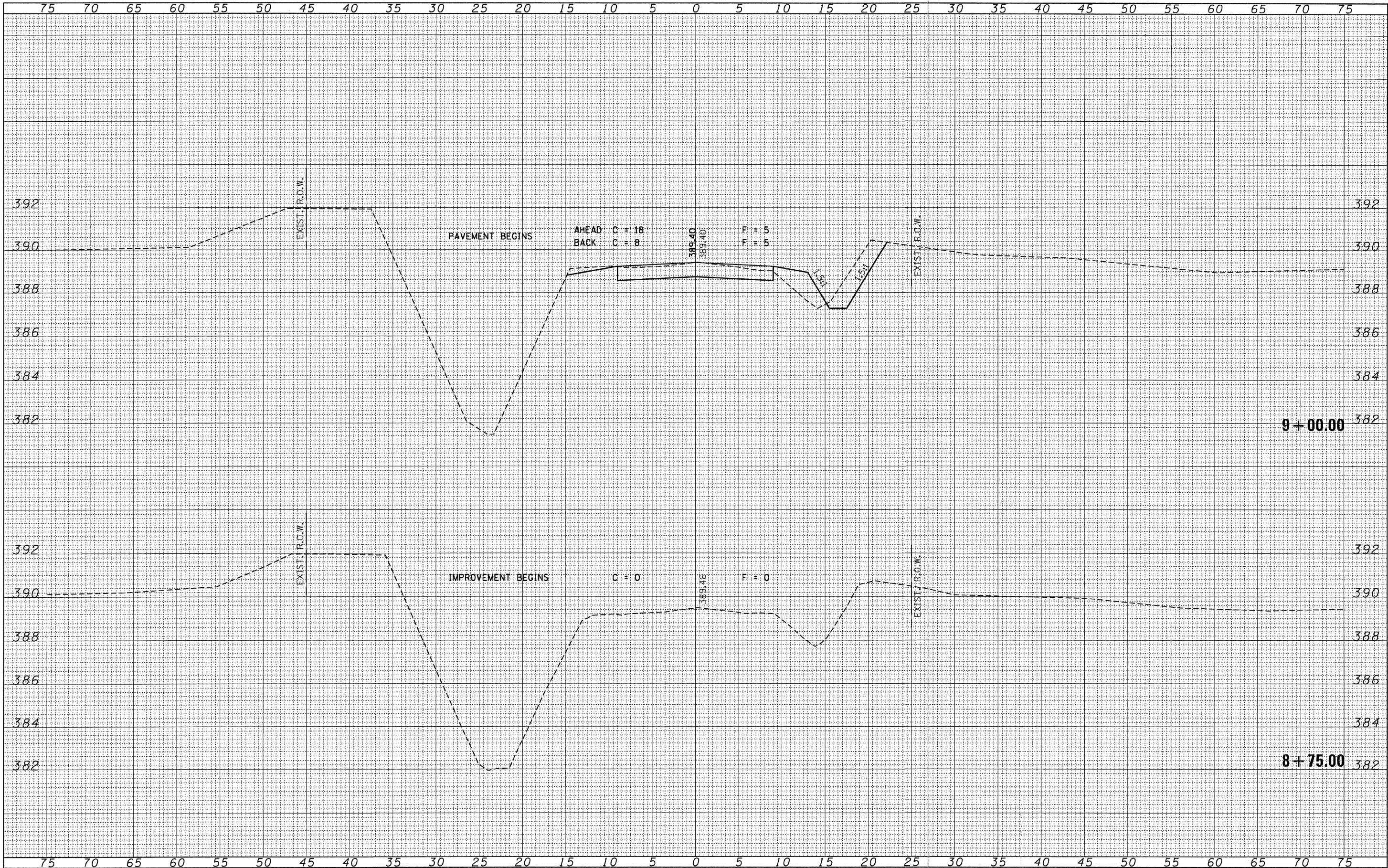


FILE NAME = 120231-ahh.ppl.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	PLAN & PROFILE RINGGOLD ROAD	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3400 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.T.M.	REVISED -			892	10-00075-00-BR	GALLATIN	25	4
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.002998	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 99456				
	PLOT DATE = 3/14/2011	DATE - 03/14/11	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: H20V5 SHEET NO. 1 OF 1 SHEETS STA. TO STA.

DATE	BY	SURVEYED	PLOTTED	REMARKS	AREAS CHECKED
NO.					

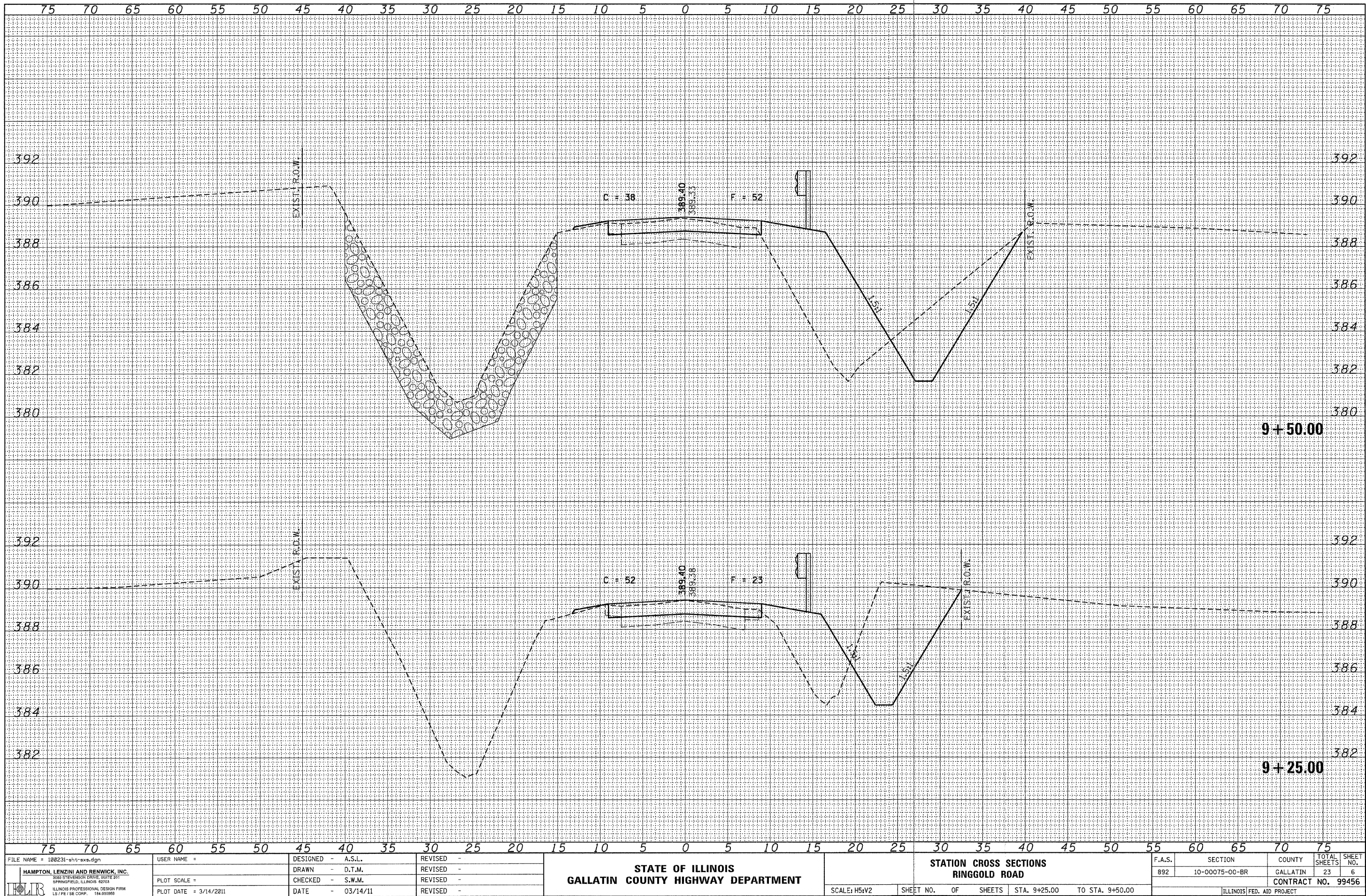
DATE	BY	SURVEYED	PLOTTED	REMARKS	AREAS CHECKED
NO.					



FILE NAME = 100231-ent-ans.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT		STATION CROSS SECTIONS RINGGOLD ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	5
300 STEVENSON DRIVE, SUITE 501 SPRINGFIELD, ILLINOIS 62763		CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 104-000000		DATE - 03/14/11	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: H5:V2		SHEET NO. OF SHEETS		STA. 8+75.00 TO STA. 9+00.00				

FINAL SURVEY	DATE	BY
	SURVEYED	
	PLOTTED	
	RECALCULATE	
	AREA CHECKED	
NO.		

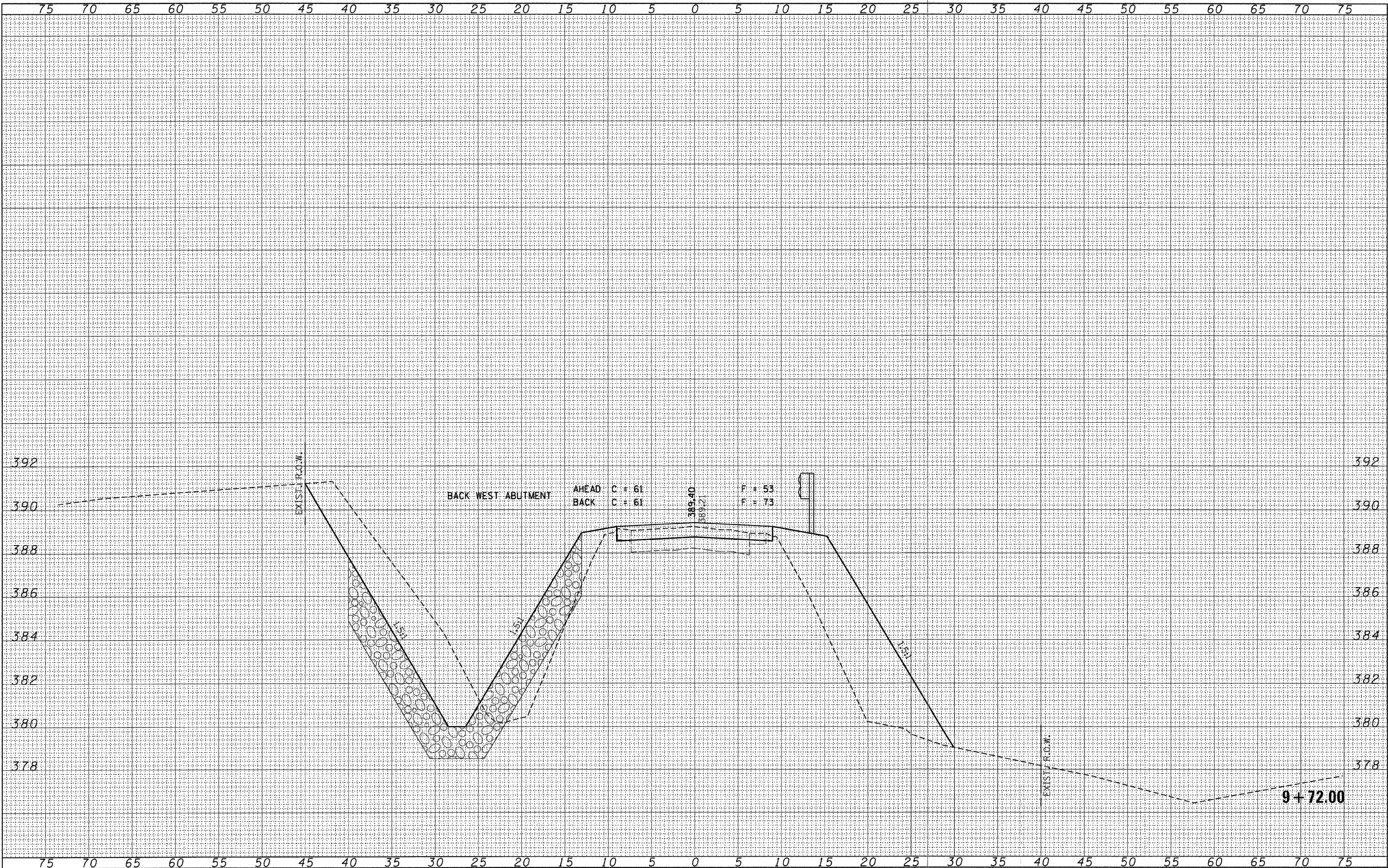
ORIGINAL SURVEY	DATE	BY
	SURVEYED	
	PLOTTED	
	RECALCULATE	
	AREA CHECKED	
NO.		



FILE NAME = 188231-shr-axe.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT		STATION CROSS SECTIONS RINGGOLD ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	6
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000365	PLOT SCALE =	CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
	PLOT DATE = 3/14/2011	DATE - 03/14/11	REVISED -					[ILLINOIS] FED. AID PROJECT				
				SCALE: H5xV2		SHEET NO.	OF	SHEETS	STA. 9+25.00	TO STA. 9+50.00		

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

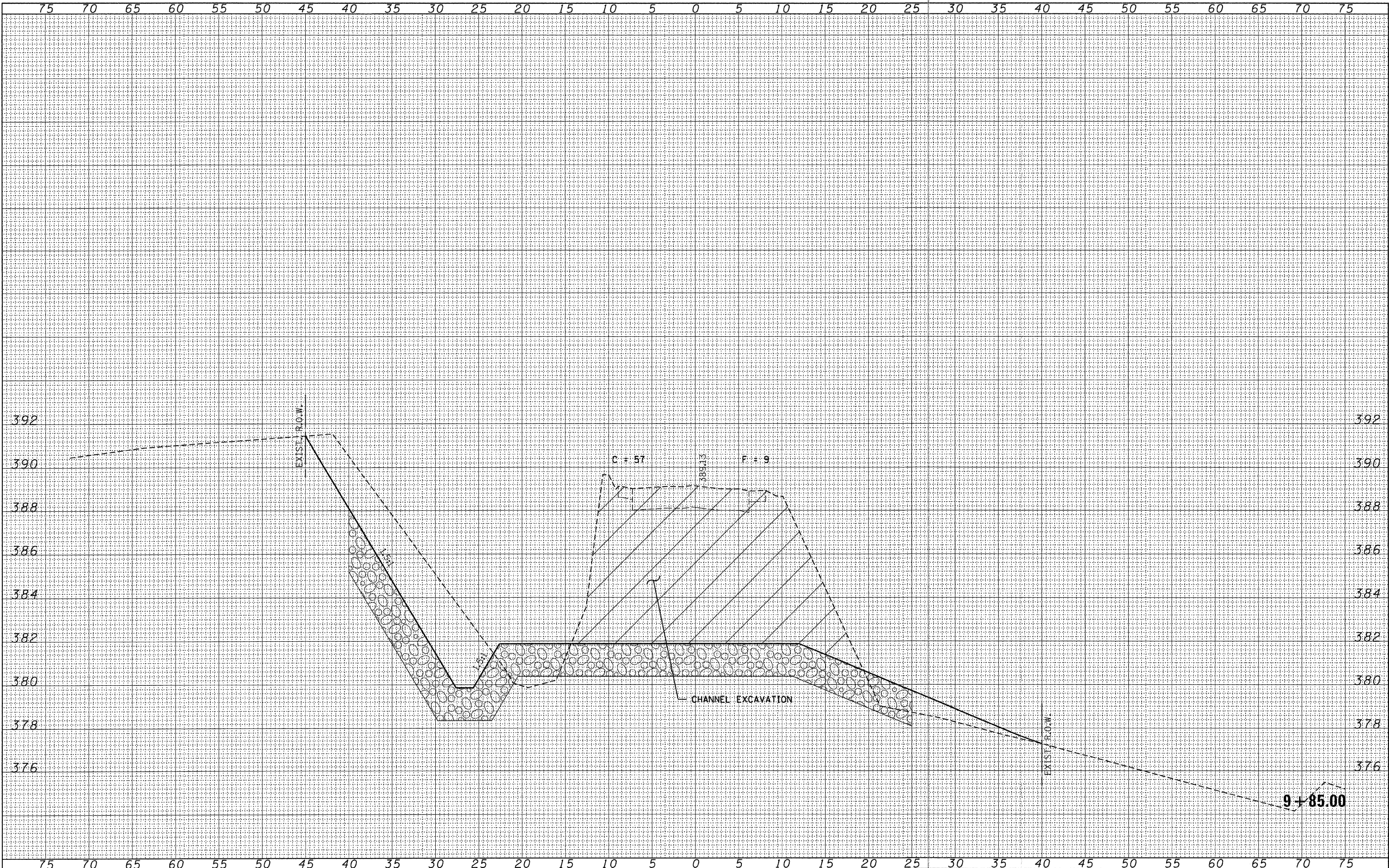
ORIGINAL SURVEY	NO.	DATE	BY	SURVEYED	PLOTTED	REPLATE	AREAS CHECKED
				NOTE BOOK			



FILE NAME = 180231-shr-axs.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT		STATION CROSS SECTIONS RINGGOLD ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709	PLOT SCALE =	DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	7
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000369	PLOT DATE = 3/14/2011	CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
		DATE - 03/14/11	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: H5:V2		SHEET NO. OF SHEETS		STA. 9+72.00 TO STA. 9+72.00				

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

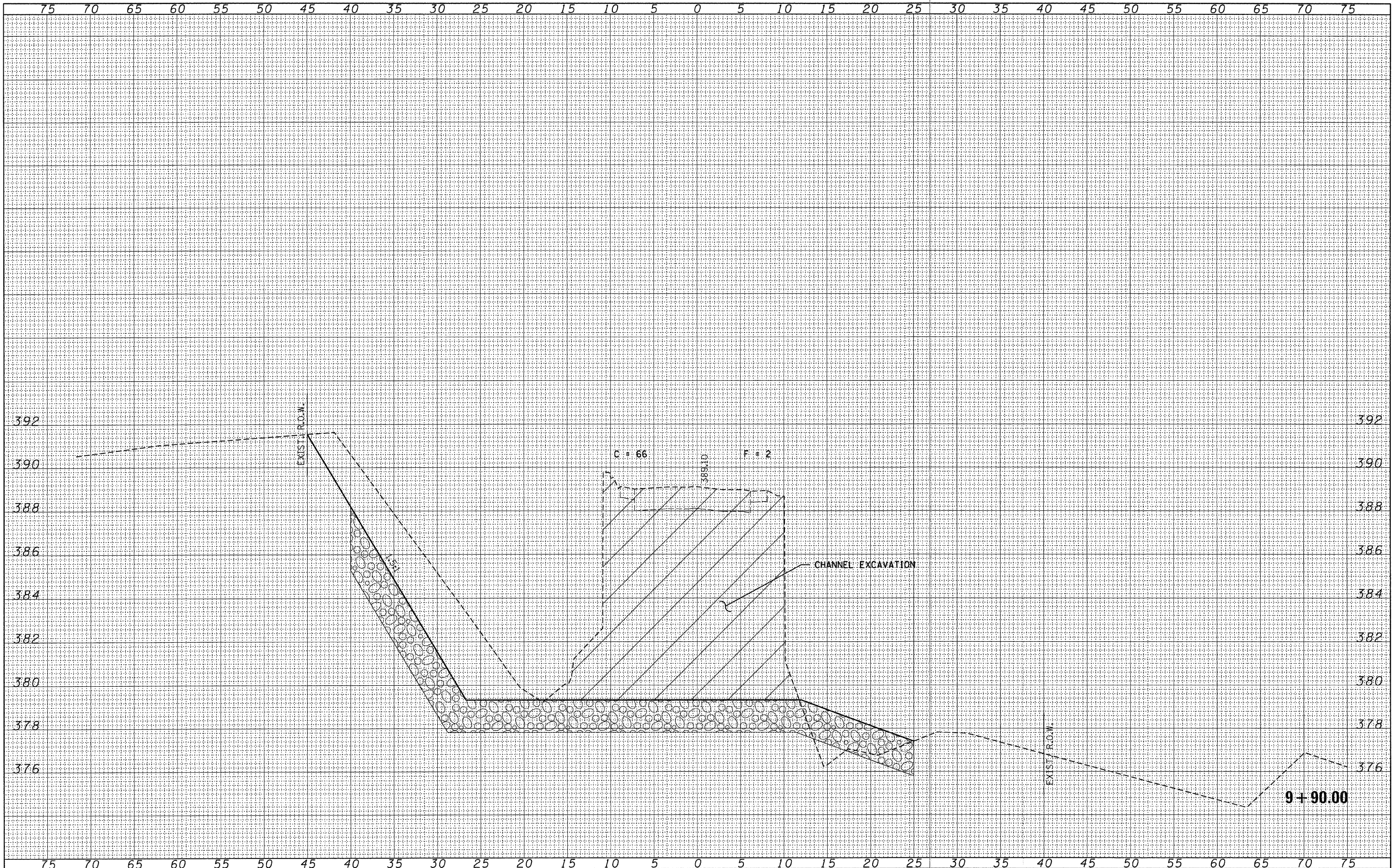
ORIGINAL SURVEY	NO.	DATE	BY	SURVEYED	PLOTTED	REPLATE	AREAS CHECKED
				NOTE BOOK			



FILE NAME = 100231-ahb-sss.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	SCALE: H5:V2	SHEET NO. OF SHEETS	STA. 9+85.00 TO STA. 9+85.00	STATION CROSS SECTIONS RINGGOLD ROAD	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3048 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	DRAWN - D.T.M.	REVISED -						892	10-00075-00-BR	GALLATIN	23	8
ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 134.000869	PLOT DATE = 3/14/2011	CHECKED - S.W.M.	REVISED -						CONTRACT NO. 99456				
		DATE - 03/14/11	REVISED -						ILLINOIS FED. AID PROJECT				

DATE	BY	SURVEYED	PLOTTED	REPLATE	AREAS CHECKED
		NO.	NO.	NO.	NO.

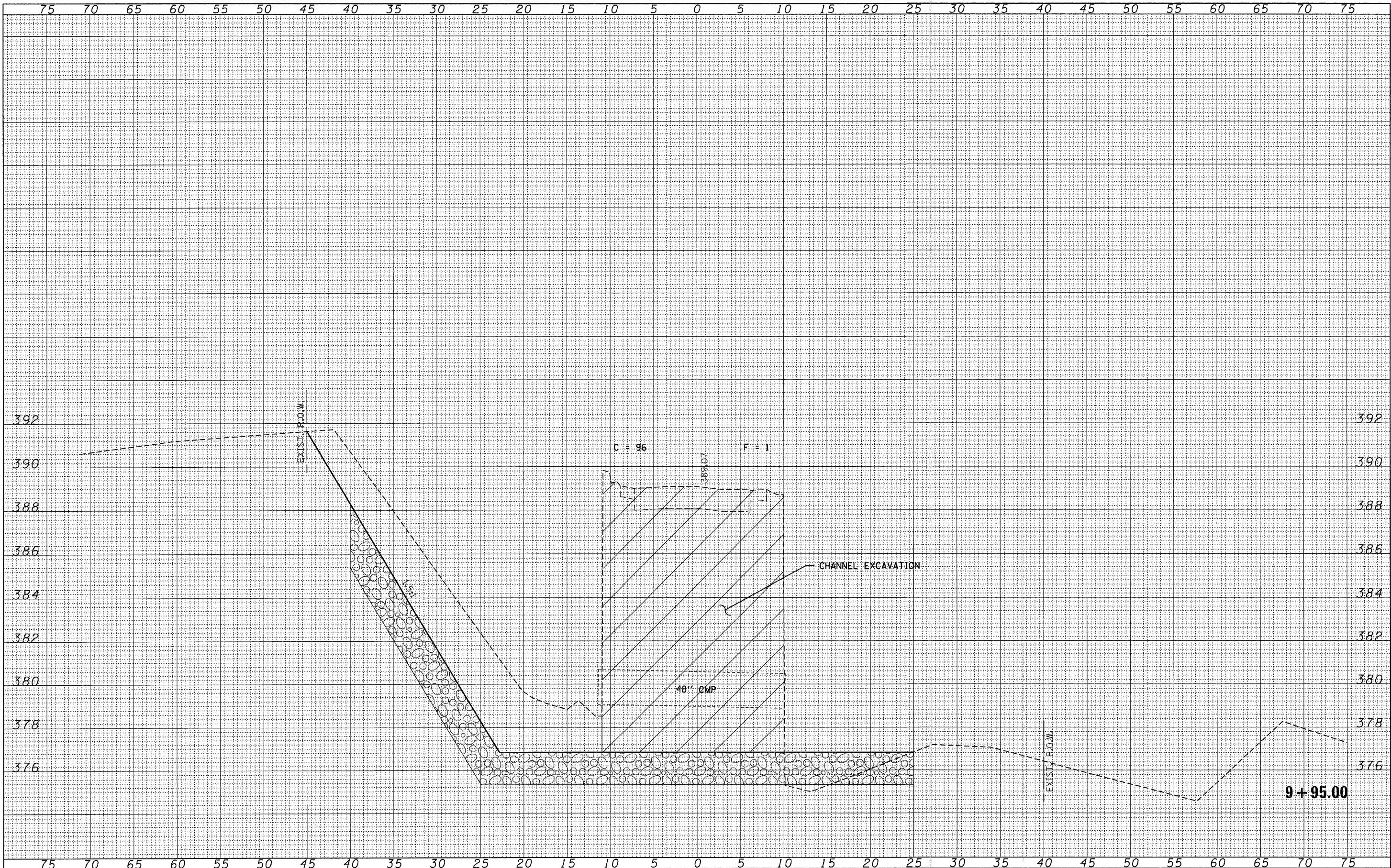
DATE	BY	SURVEYED	PLOTTED	REPLATE	AREAS CHECKED
		NO.	NO.	NO.	NO.



FILE NAME = 100231-shr-sxs.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT		STATION CROSS SECTIONS RINGGOLD ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3683 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709		DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	9
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000259	PLOT SCALE =	CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
	PLOT DATE = 3/14/2011	DATE - 03/14/11	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: H5:V2		SHEET NO. OF SHEETS		STA. 9+90.00 TO STA. 9+90.00				

FINAL SURVEY	DATE	BY
	SURVEYED	
	NOTED	
	AREAS CHECKED	

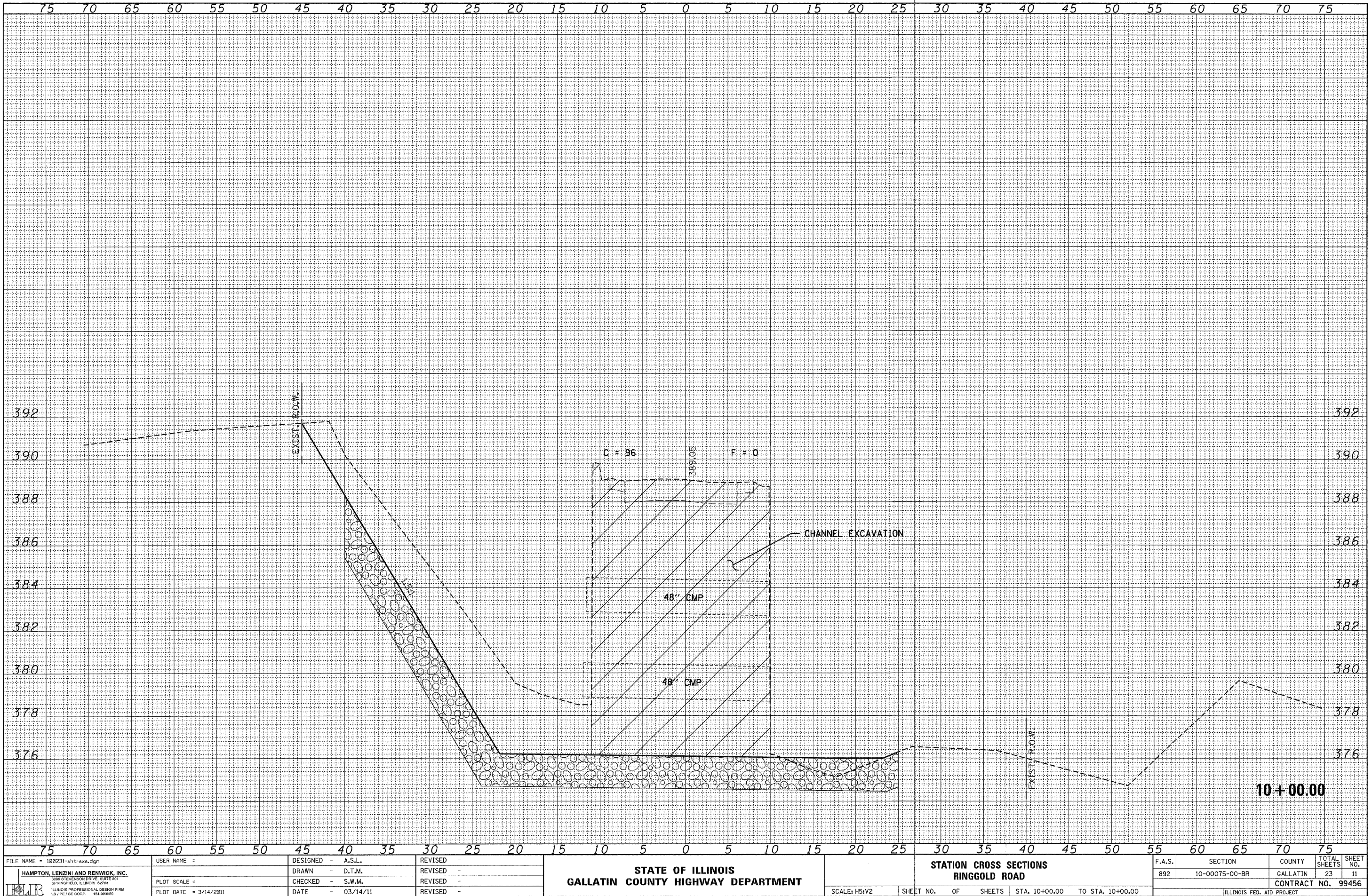
ORIGINAL SURVEY	DATE	BY
	SURVEYED	
	NOTED	
	AREAS CHECKED	



FILE NAME = 108231-ahf-sxs.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS RINGGOLD ROAD				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -									892	10-00075-00-BR	GALLATIN	23	10
3048 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	CHECKED - S.W.M.	REVISED -									CONTRACT NO. 99456				
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 194.000969	PLOT DATE = 3/14/2011	DATE - 03/14/11	REVISED -									ILLINOIS FED. AID PROJECT				
				SCALE: H5:V2				SHEET NO.	OF	SHEETS	STA. 9+95.00	TO STA. 9+95.00				

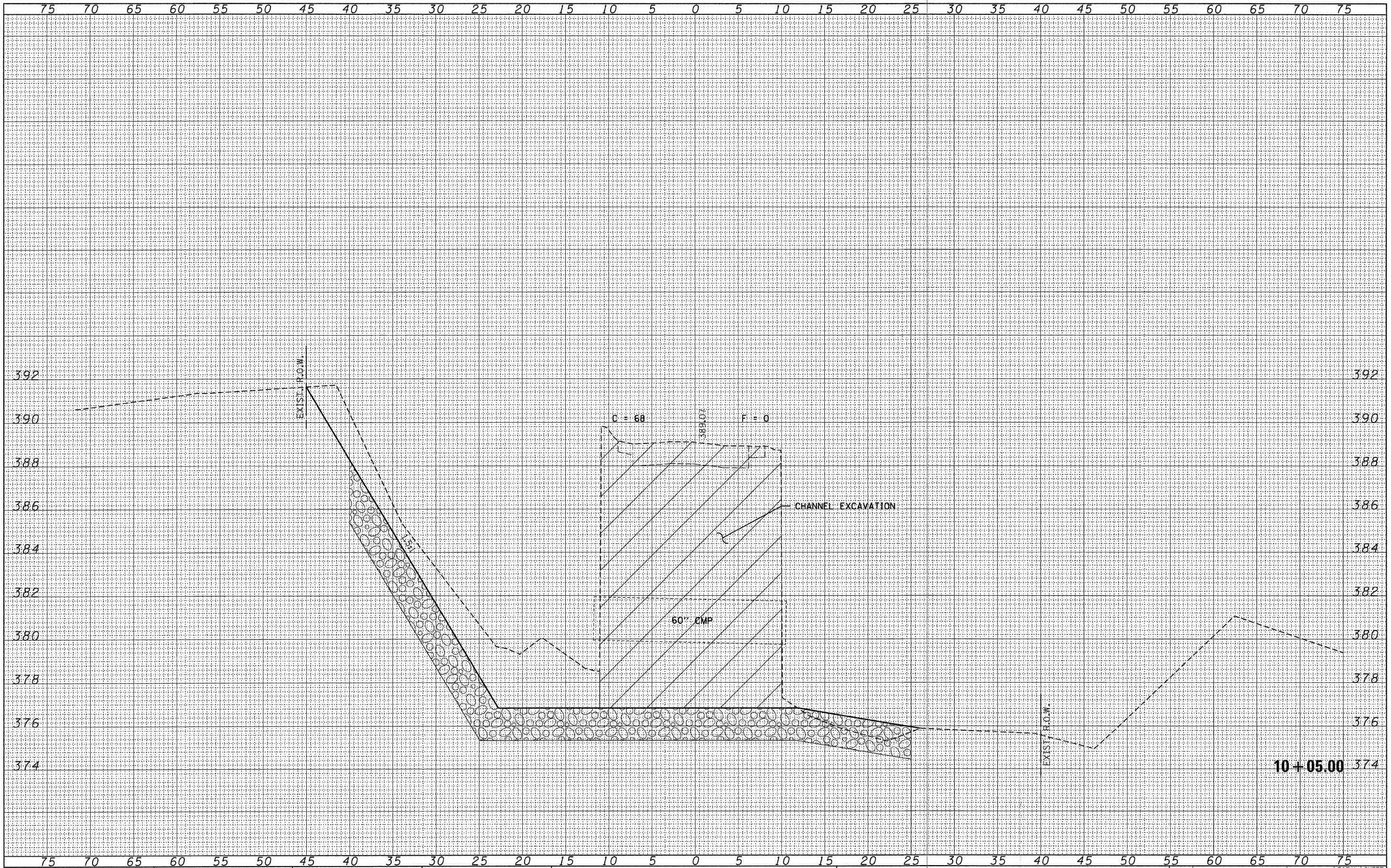
FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	RECALC		
	AREAS CHECKED		
NO.			

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	RECALC		
	AREAS CHECKED		
NO.			



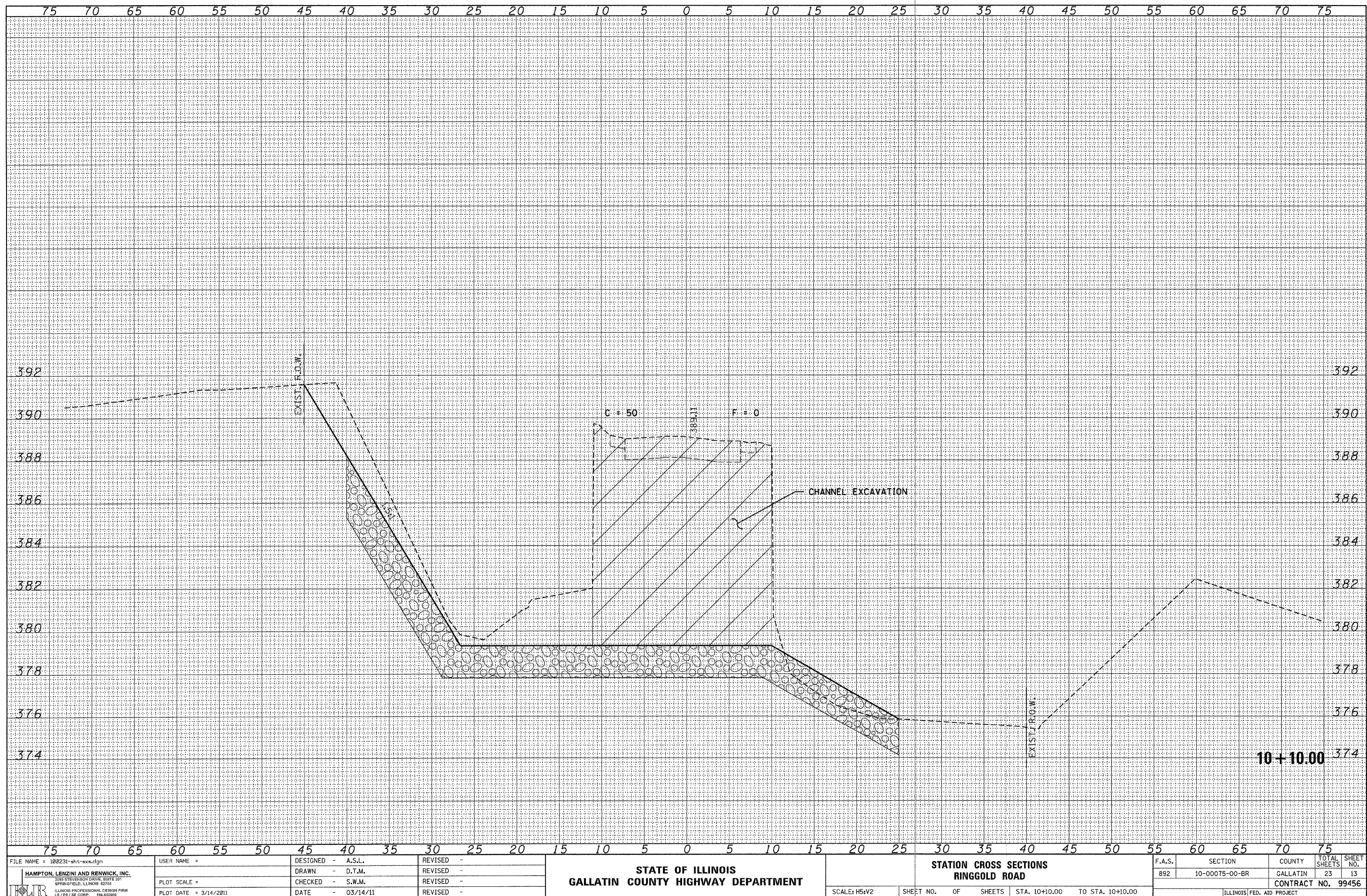
DATE	BY	SURVEYED	PLOTTED	REPLATE	AREAS CHECKED
		NO.			

DATE	BY	ORIGINAL	SURVEY	NOTE BOOK	AREAS CHECKED
		NO.			



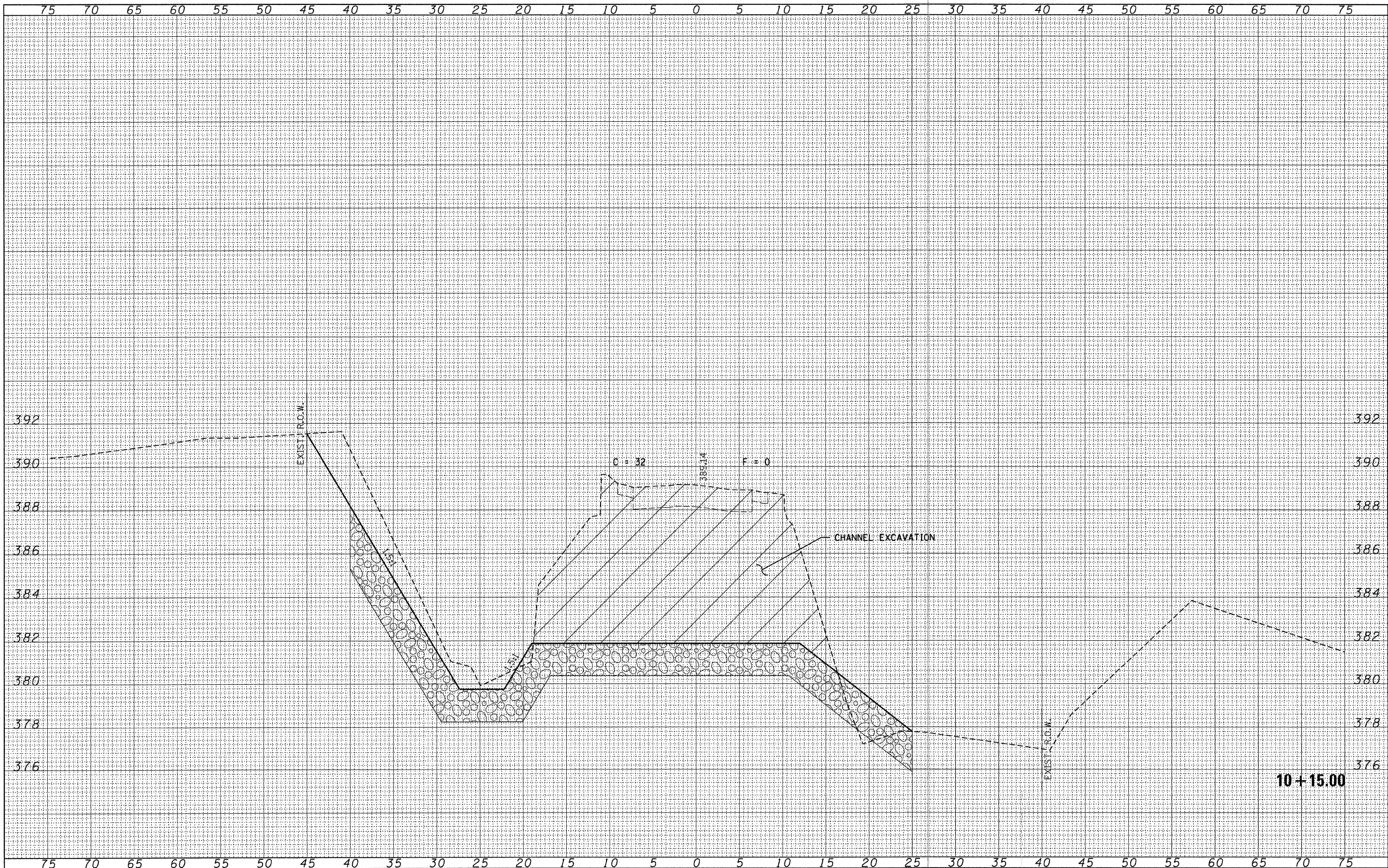
FILE NAME = 100231-ahd-axa.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT		STATION CROSS SECTIONS RINGGOLD ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	12
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / P3 / SE CORP. 164.000000	PLOT SCALE =	CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
	PLOT DATE = 3/14/2011	DATE - 03/14/11	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: H5xV2		SHEET NO. OF SHEETS		STA. 10+05.00 TO STA. 10+05.00				

ORIGINAL					
SURVEY	SURVEYED	BY	DATE		
NOTE BOOK	PLOTTED				
	TEMPLATE				
	AREAS				
	AREAS CHECKED				



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

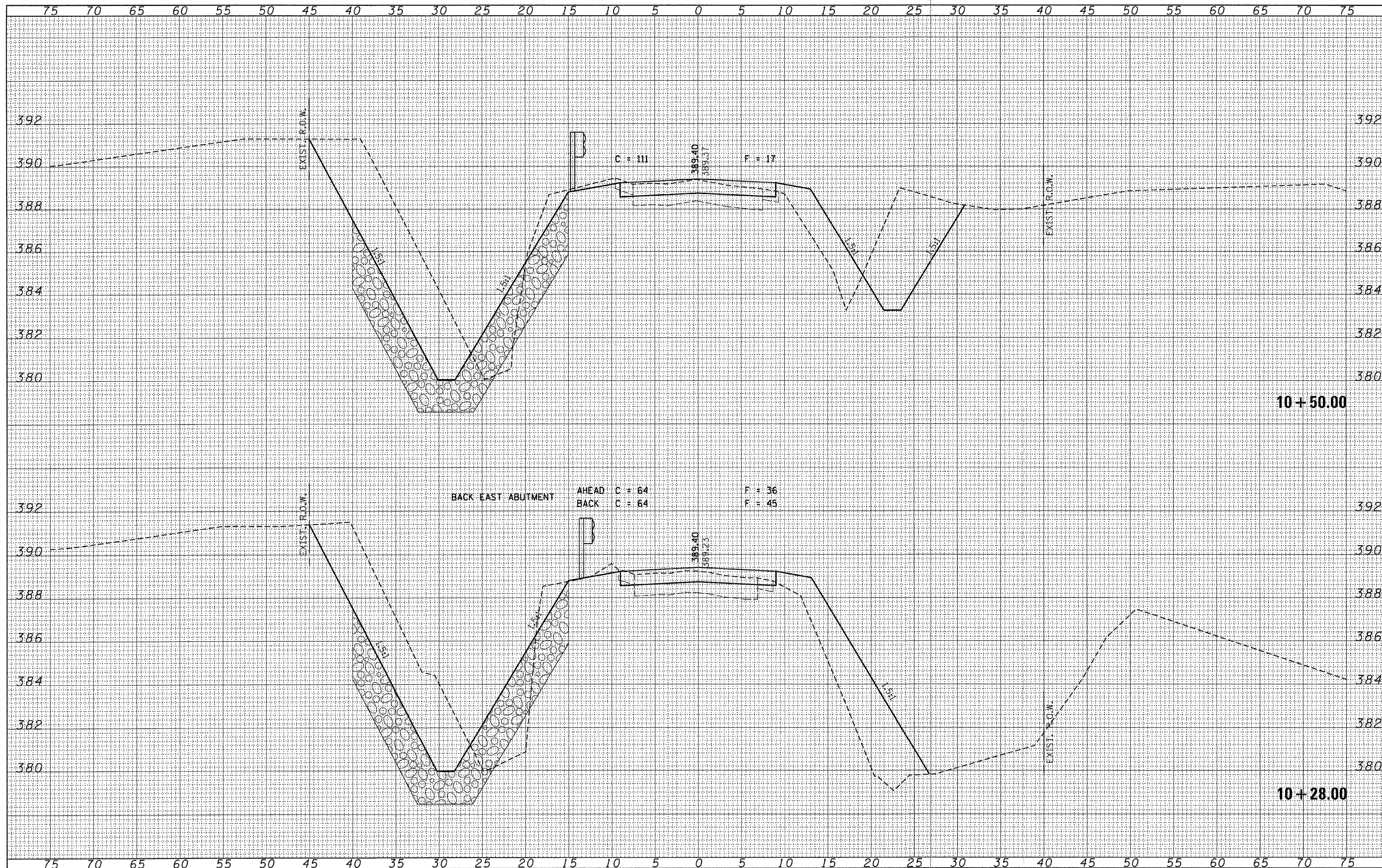
ORIGINAL SURVEY	SURVEYED PLOTTED TEMPLATE	BY	DATE
NOTE BOOK NO.	AREAS CHECKED		



FILE NAME = 100231-sht-sss.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT		STATION CROSS SECTIONS RINGGOLD ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	14
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 164.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
	PLOT DATE = 3/14/2011	DATE - 03/14/11	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: H5:V2		SHEET NO. OF SHEETS		STA. 10+15.00 TO STA. 10+15.00				

DATE	BY	SURVEYED	PLOTTED	INSP.	DATE
NO.		NOTE BOOK	AREA	CHECKED	

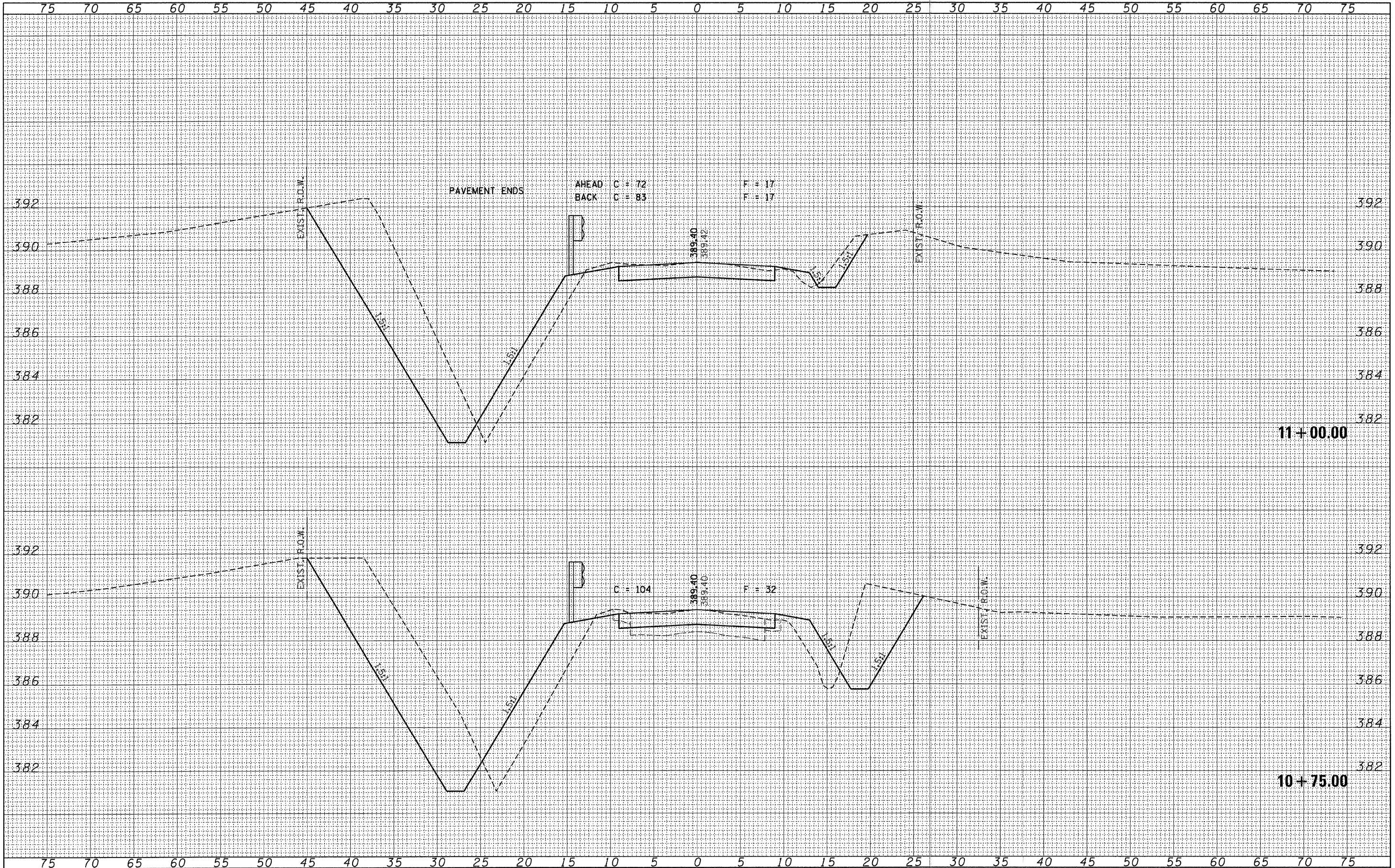
DATE	BY	SURVEYED	PLOTTED	INSP.	DATE
NO.		NOTE BOOK	AREA	CHECKED	



FILE NAME = 100231-aht-rss.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT		STATION CROSS SECTIONS RINGGOLD ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709		DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	15
PLOT SCALE =		CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
PLOT DATE = 3/14/2011		DATE - 03/14/11	REVISED -					[ILLINOIS] FED. AID PROJECT				
				SCALE: H5xV2		SHEET NO. OF SHEETS		STA. 10+28.00 TO STA. 10+50.00				

FINAL SURVEY	BY	DATE
	SURVEYED	
	PLOTTED	
	REVISIONS	
NO. BOOK	REVISIONS	DATE
NO.	NO.	NO.

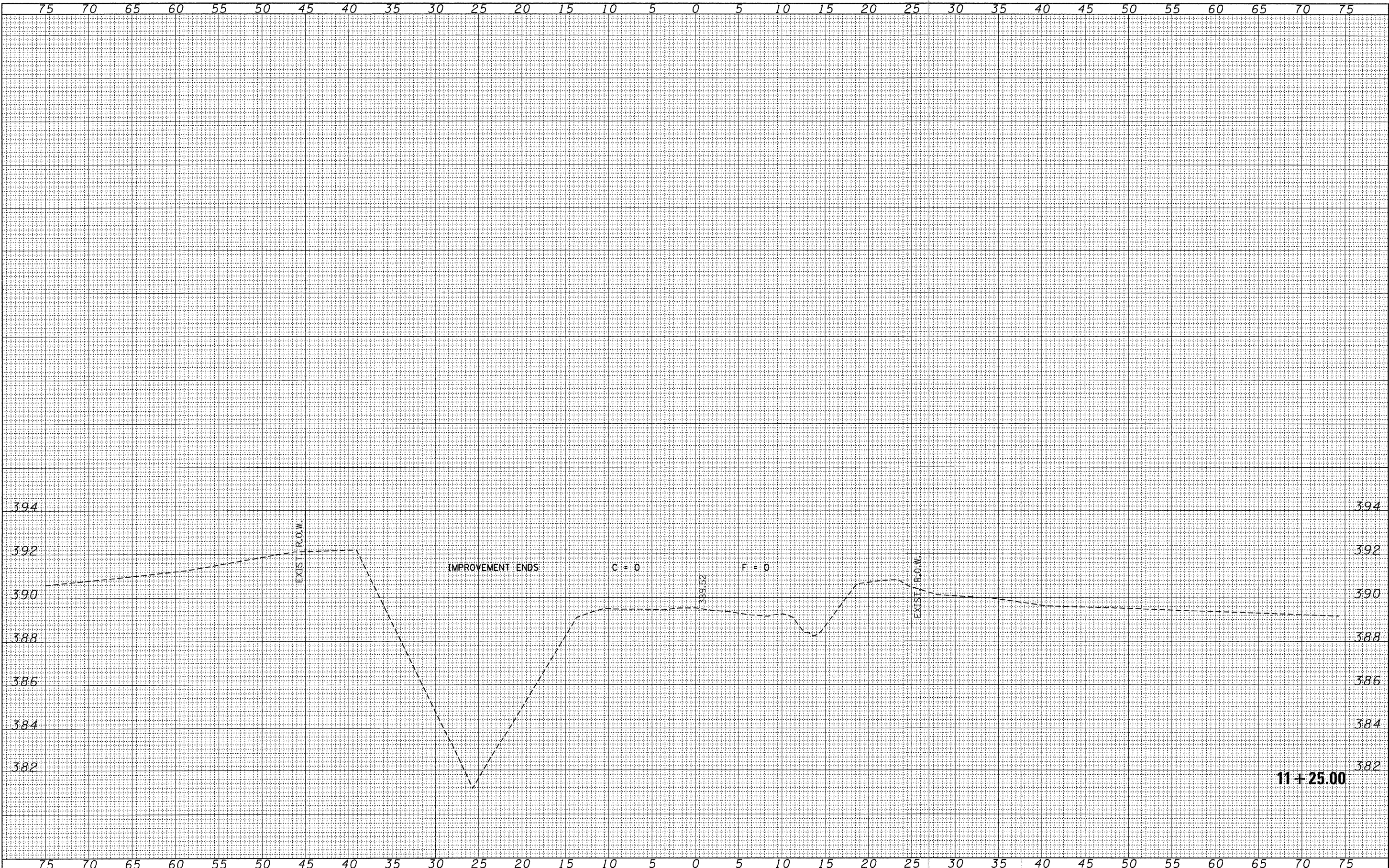
ORIGINAL SURVEY	BY	DATE
	SURVEYED	
	PLOTTED	
	REVISIONS	
NO. BOOK	REVISIONS	DATE
NO.	NO.	NO.



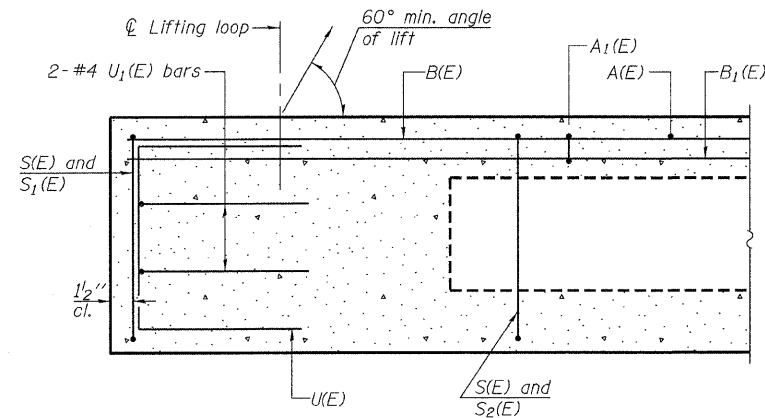
FILE NAME = 102231-shr+ss.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT		STATION CROSS SECTIONS RINGGOLD ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3043 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000569		DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	16
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
	PLOT DATE = 3/14/2011	DATE - 03/14/11	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: H5:V2		SHEET NO.	OF SHEETS	STA. 10+75.00 TO STA. 11+00.00				

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

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

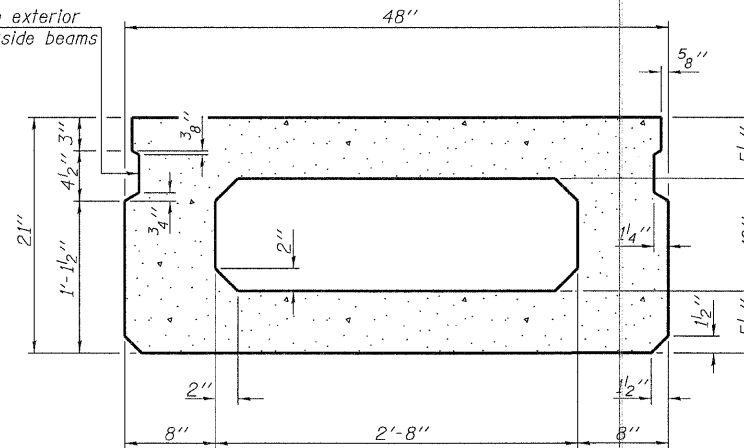


FILE NAME = 100231-ht-ss.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	SCALE: H5:V2	SHEET NO. OF SHEETS	STA. 11+25.00 TO STA. 11+25.00	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3008 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62704	PLOT SCALE =	DRAWN - D.T.M.	REVISED -					892	10-00075-00-BR	GALLATIN	23	17
ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 194.000865	PLOT DATE = 3/14/2011	CHECKED - S.W.M.	REVISED -					CONTRACT NO. 99456				
	DATE - 03/14/11	REVISED -	ILLINOIS FED. AID PROJECT									

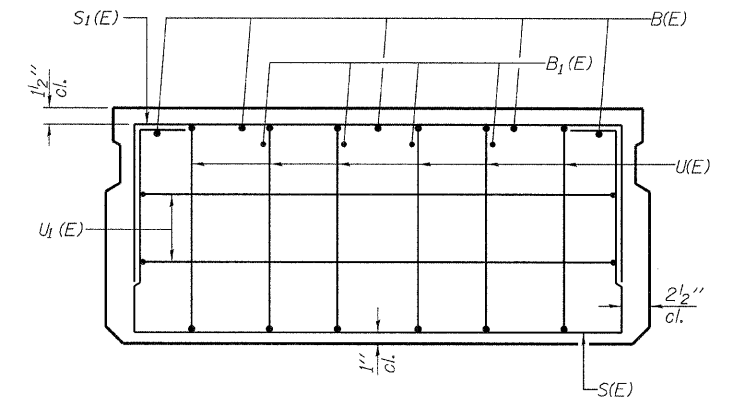


SECTION A-A

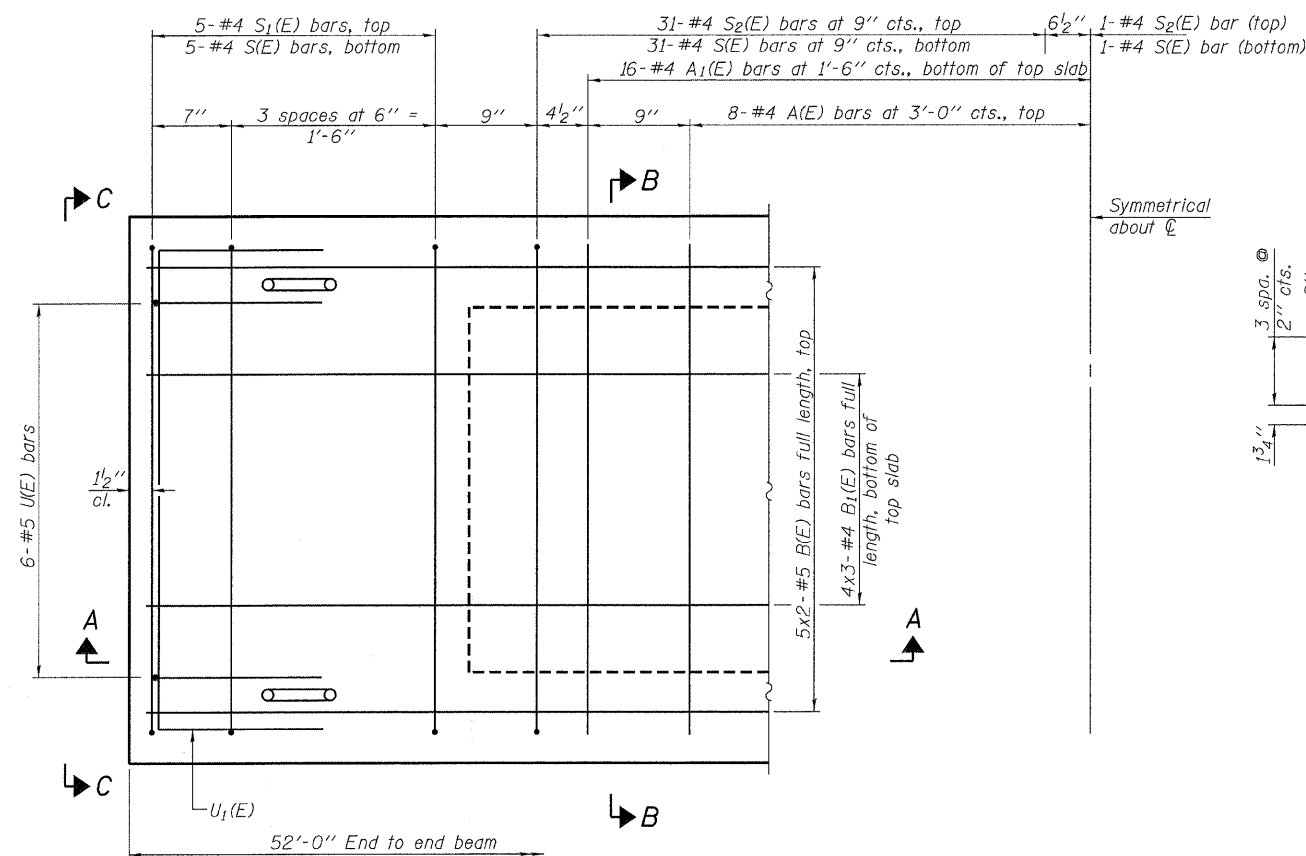
Omit key on exterior face of outside beams



SECTION B-B
(Showing dimensions)

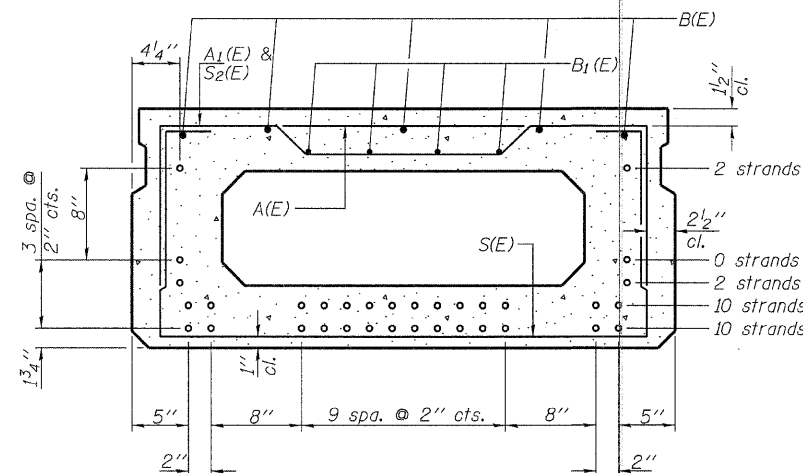


VIEW C-C



PLAN VIEW

Symmetrical about C



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For Information Only)

Bar	No.	Size	Length	Shape
A(E)	16	#4	3'-7"	—
A1(E)	32	#4	3'-10"	—
B(E)	10	#5	27'-2"	—
B1(E)	12	#4	18'-8"	—
S(E)	73	#4	7'-5"	□
S1(E)	10	#4	5'-11"	□
S2(E)	63	#4	6'-2"	□
U(E)	12	#5	4'-0"	□
U1(E)	4	#4	6'-0"	□

Note: See sheets 3 & 4 of 8 for additional details and Bill of Material.

MINIMUM BAR LAP

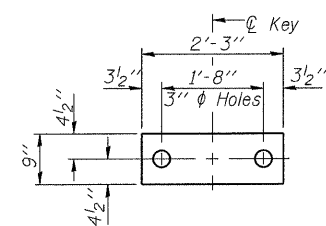
#4 bar = 2'-0"
#5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

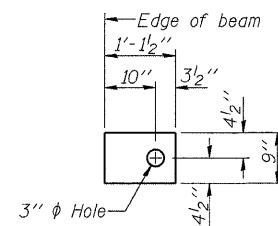
PD-2148-0

7-1-10

FILE NAME = 100231-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	21" x 48" PPC DECK BEAM STRUCTURE NO. 030-3134	SHEET NO. 2 OF 8 SHEETS	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 2045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -				892	10-00075-00-BR	GALLATIN	25	19
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184 D00959	PLOT DATE = 3/14/2011	DRAWN - D.T.M.	REVISED -				CONTRACT NO. 99456				
		CHECKED - S.W.M.	REVISED -				ILLINOIS FED. AID PROJECT				



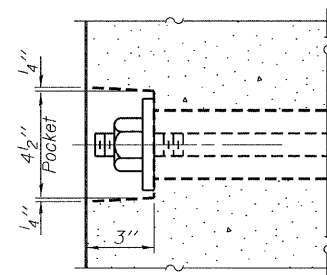
FABRIC BEARING PAD
(Interior - 10 Req'd.)



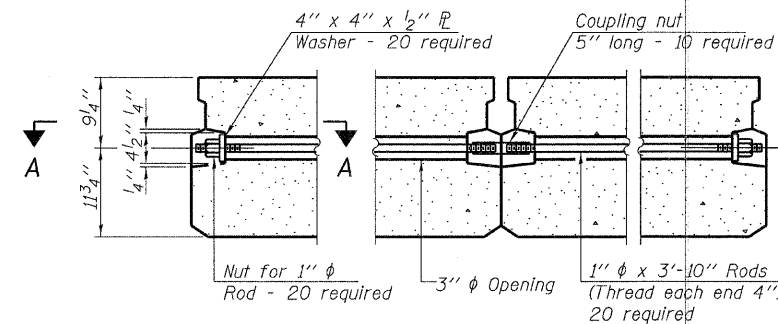
FABRIC BEARING PAD
(Exterior - 4 Req'd.)

FIXED

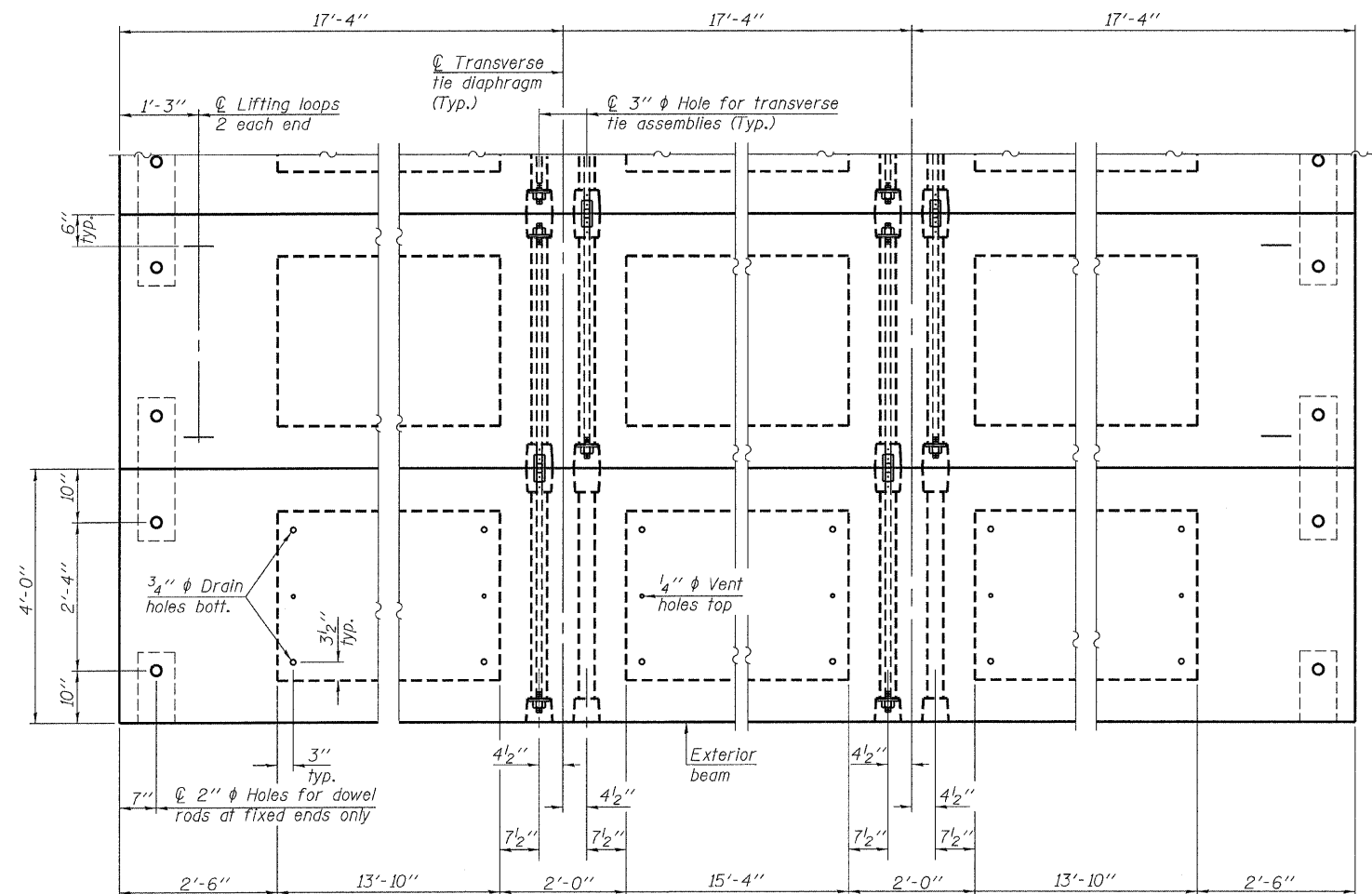
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

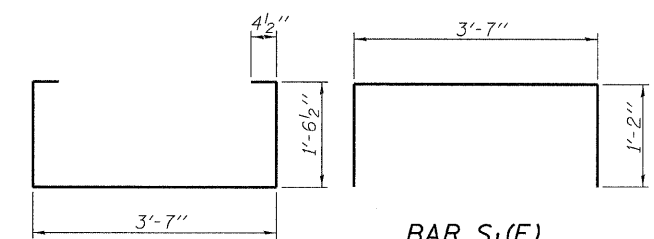


PLAN VIEW

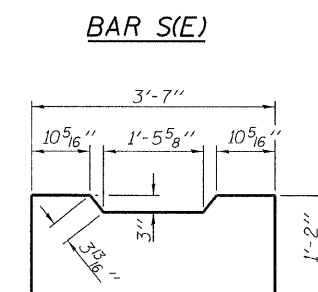
Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

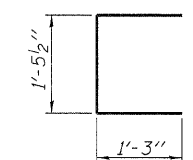
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'cl, shall be 5000 psi.
All reinforcement shall be epoxy coated.



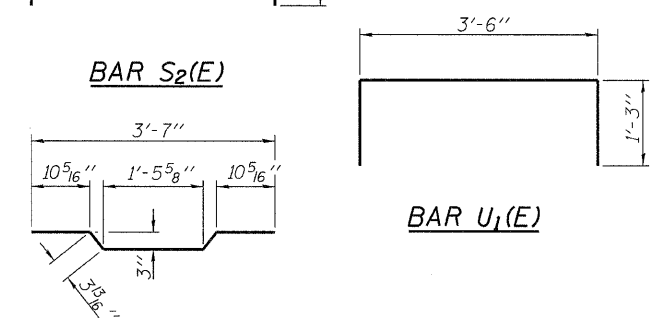
BAR S₁(E)



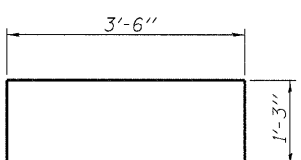
BAR S(E)



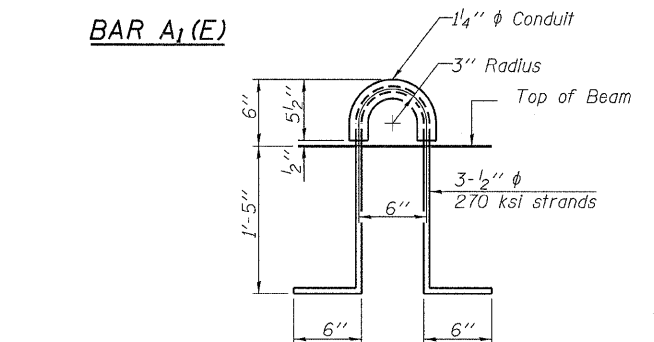
BAR U(E)



BAR S₂(E)



BAR U₁(E)



BAR A₁(E)

LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,248
---	---------	-------

PD-2148-0D

7-1-10

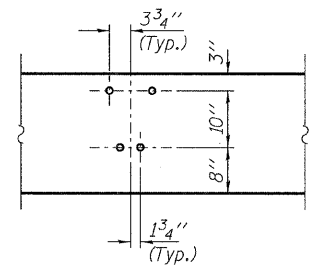
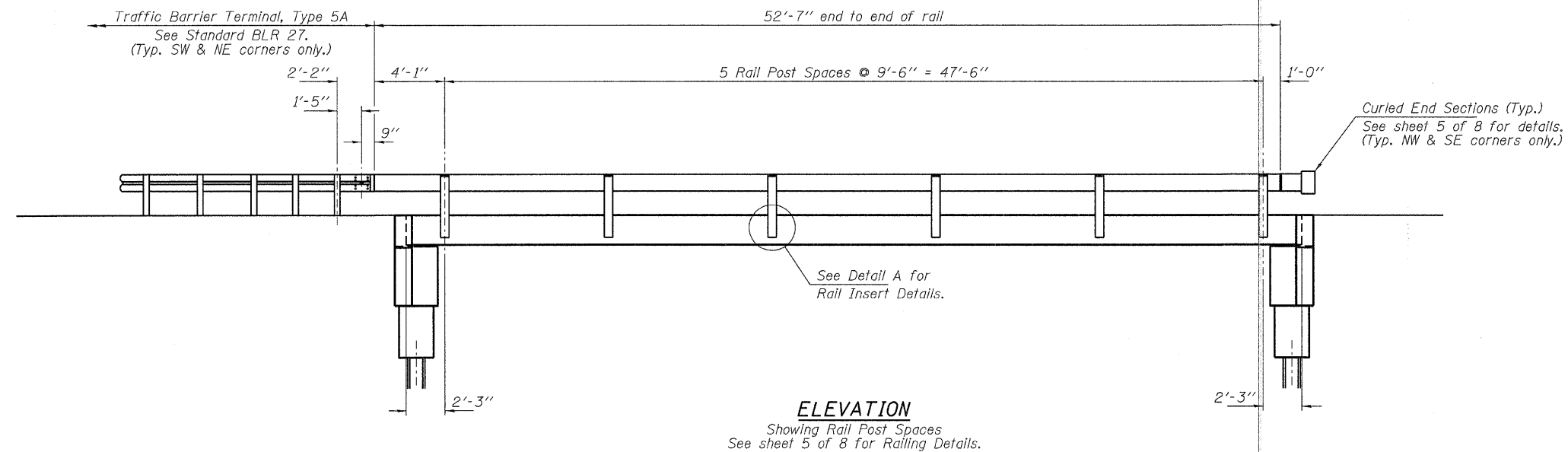
FILE NAME = 100231-ah-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3055 STEVENSON DRIVE, SUITE 201		DRAWN - D.T.M.	REVISED -
SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT DATE = 3/14/2011		
LS / PE / SE CORP. 184.00059			

STATE OF ILLINOIS
GALLATIN COUNTY HIGHWAY DEPARTMENT

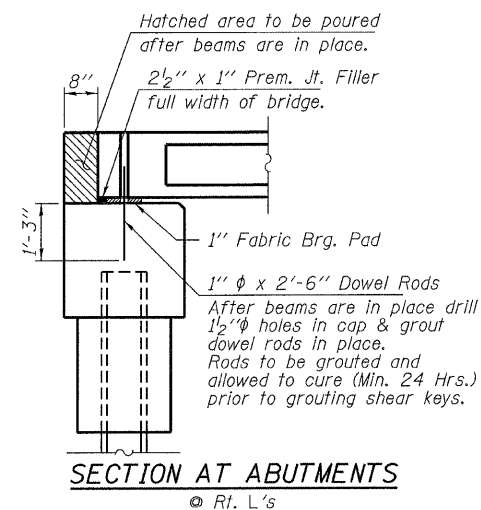
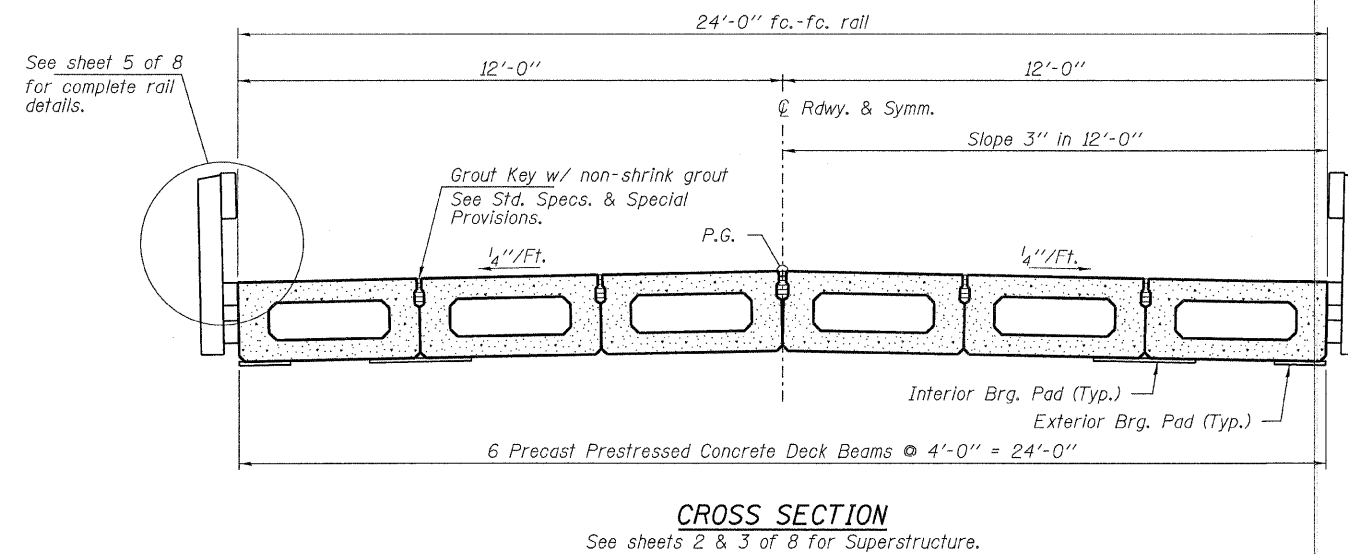
21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 030-3134

SHEET NO. 3 OF 8 SHEETS

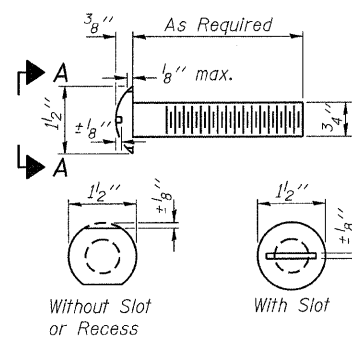
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
892	10-00075-00-BR	GALLATIN	25	20
CONTRACT NO. 99456				
ILLINOIS FED. AID PROJECT				



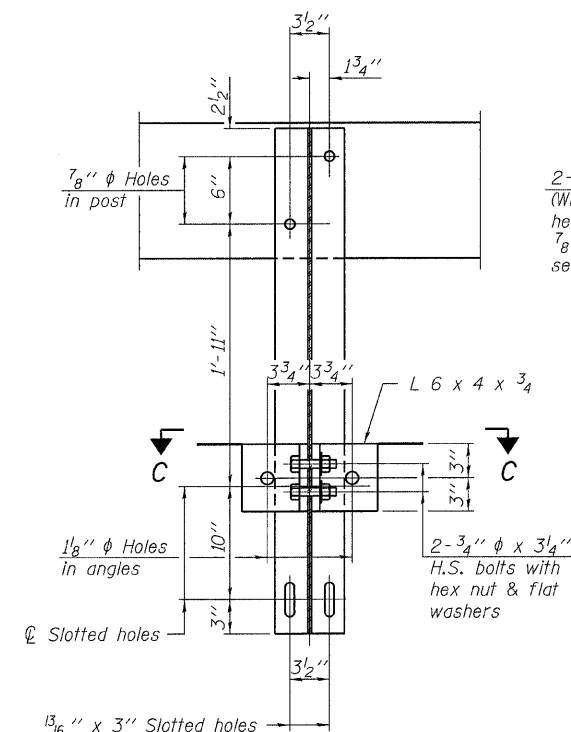
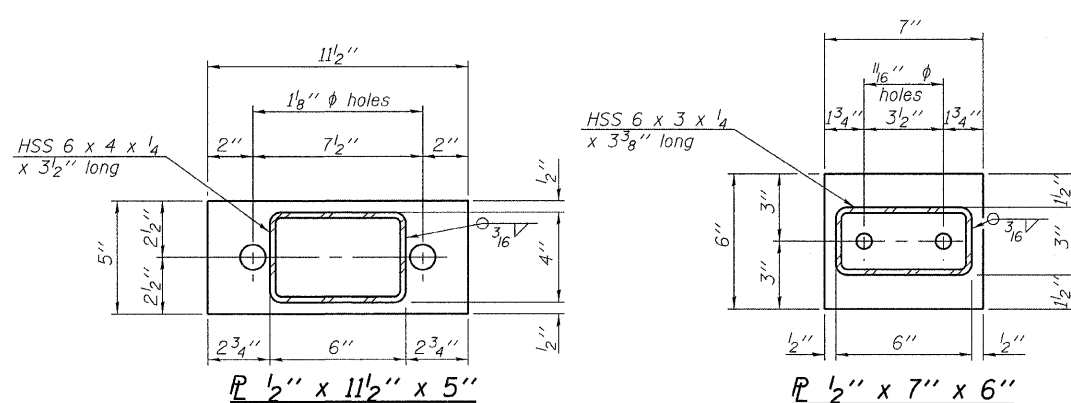
DETAIL A



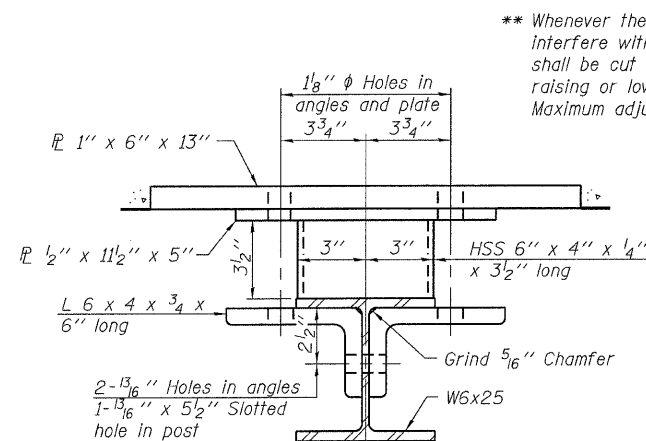
FILE NAME = 100231-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE DETAILS STRUCTURE NO. 030-3134	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 2085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			892	10-00075-00-BR	GALLATIN	25	21
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP 184.000989	PLOT DATE = 3/14/2011	DRAWN - D.T.M.	REVISED -			CONTRACT NO. 99456				
		CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT				



VIEW A-A
ROUND HEAD BOLT

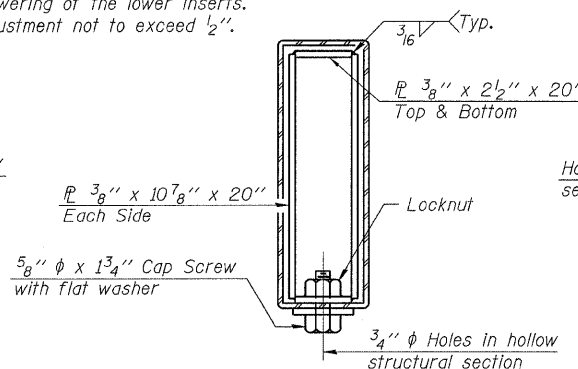


SECTION B-B

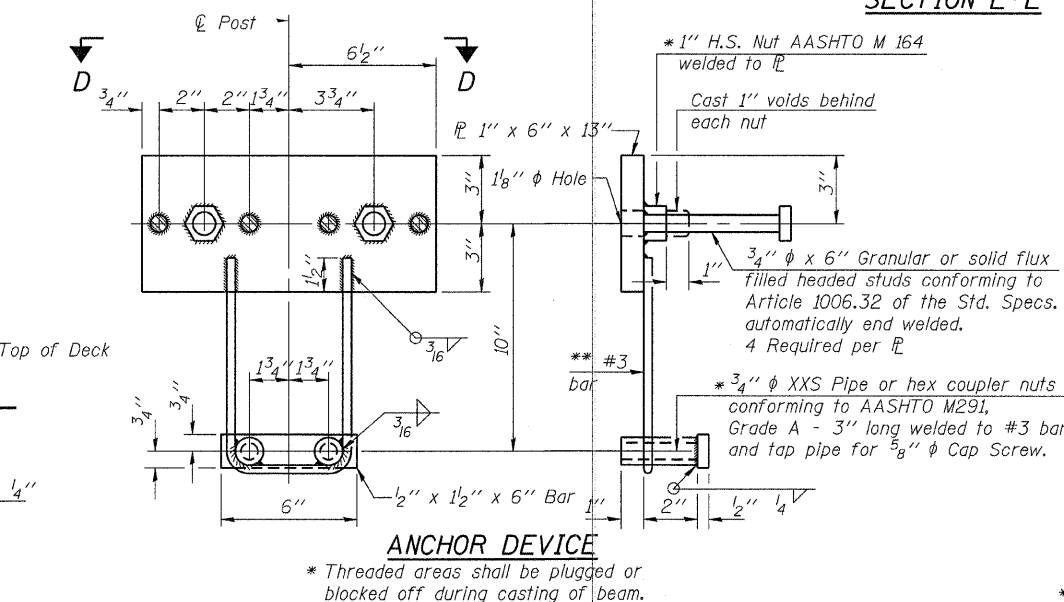


SECTION C-C

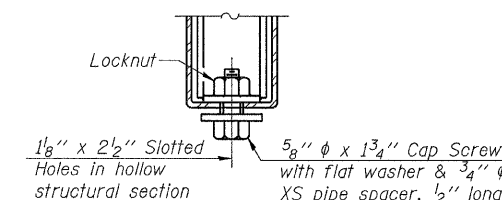
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2 inch.



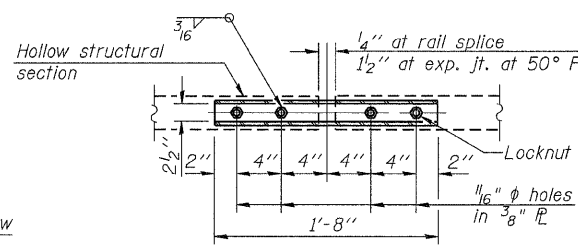
SECTIONS AT RAIL SPLICE



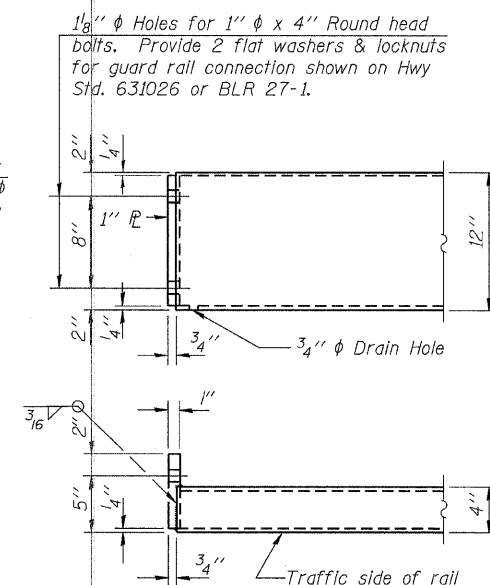
ANCHOR DEVICE



RAIL SPLICE CONNECTION
AT EXPANSION JT.

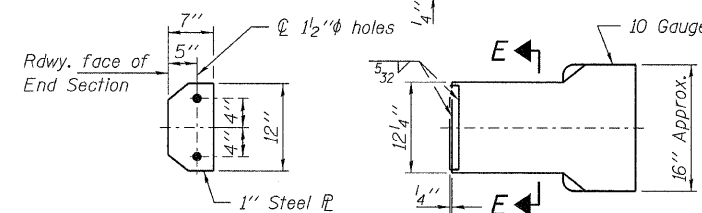


PLAN-BOTT. SPLICE PLATE
TYPICAL



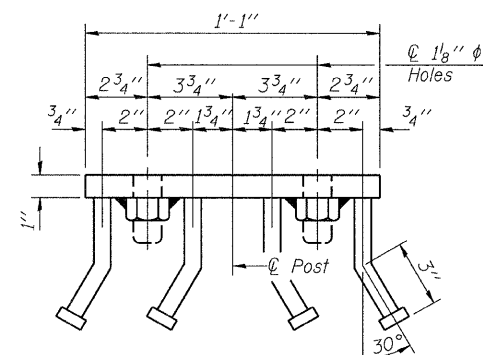
END OF RAIL DETAILS

Note: Cost of curled end sections shall be included with the Steel Railing. (2 Required)



SECTION E-E
CURLED END SECTION DETAILS

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
*** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



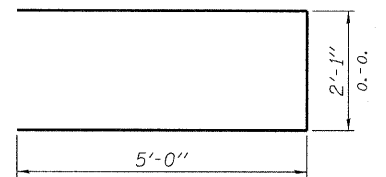
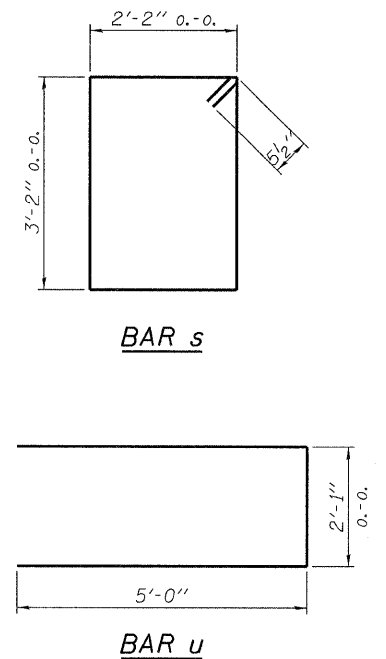
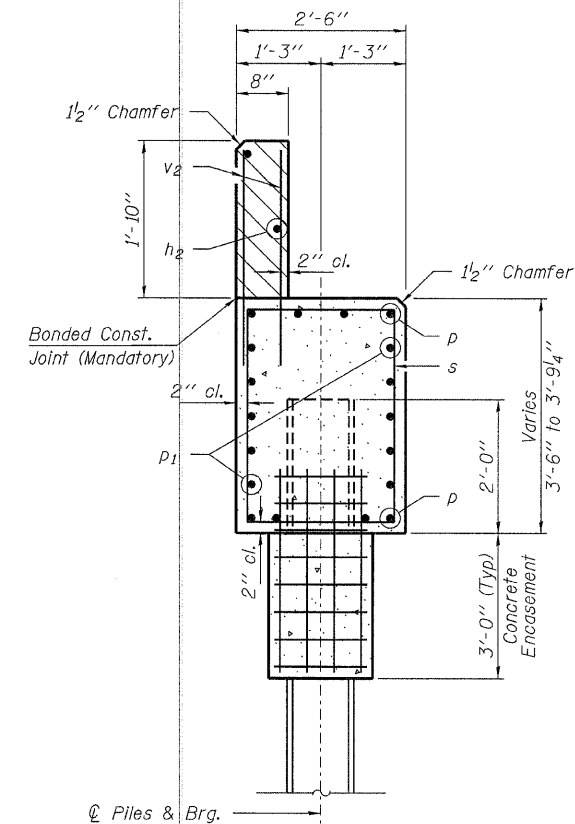
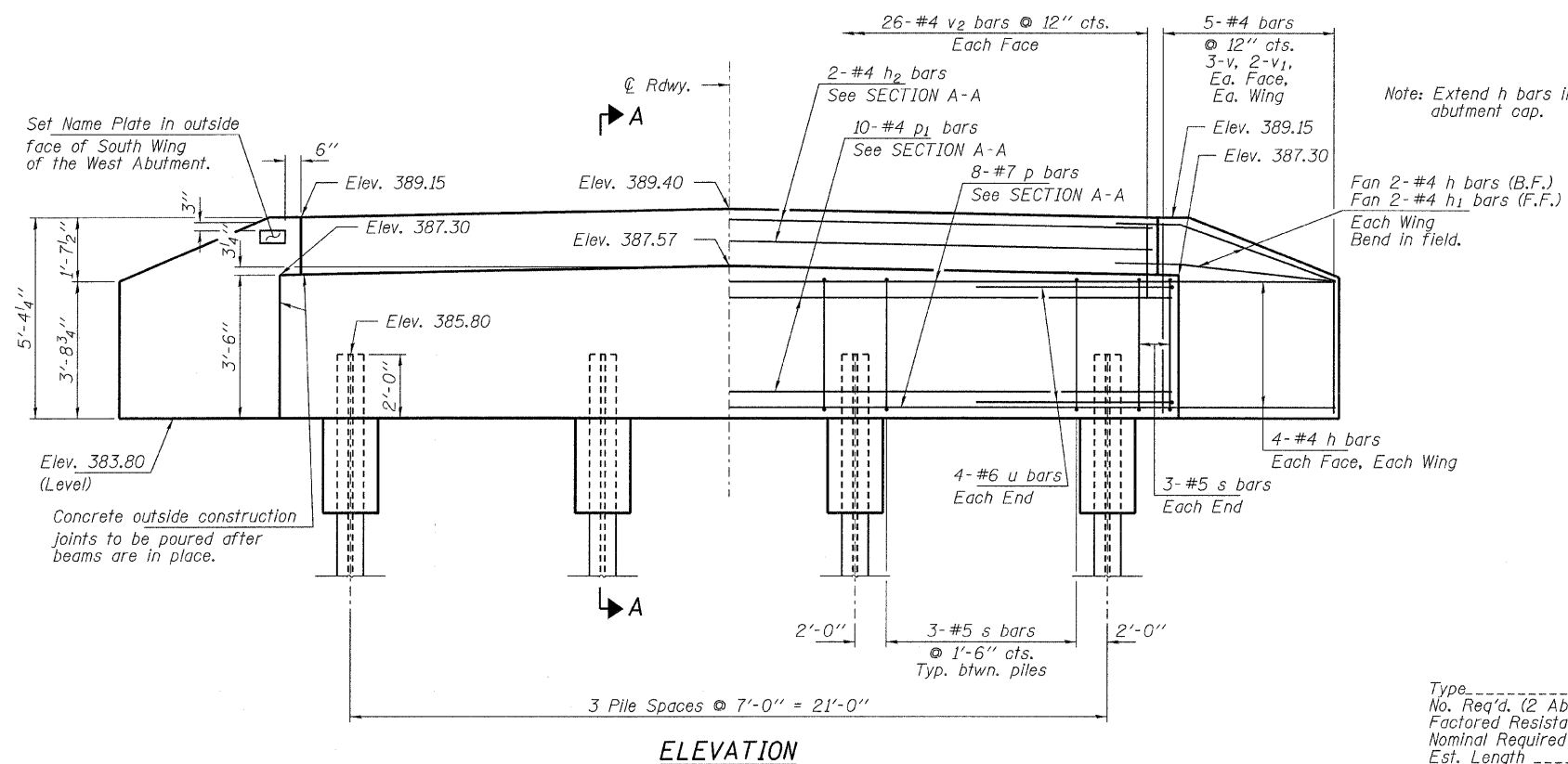
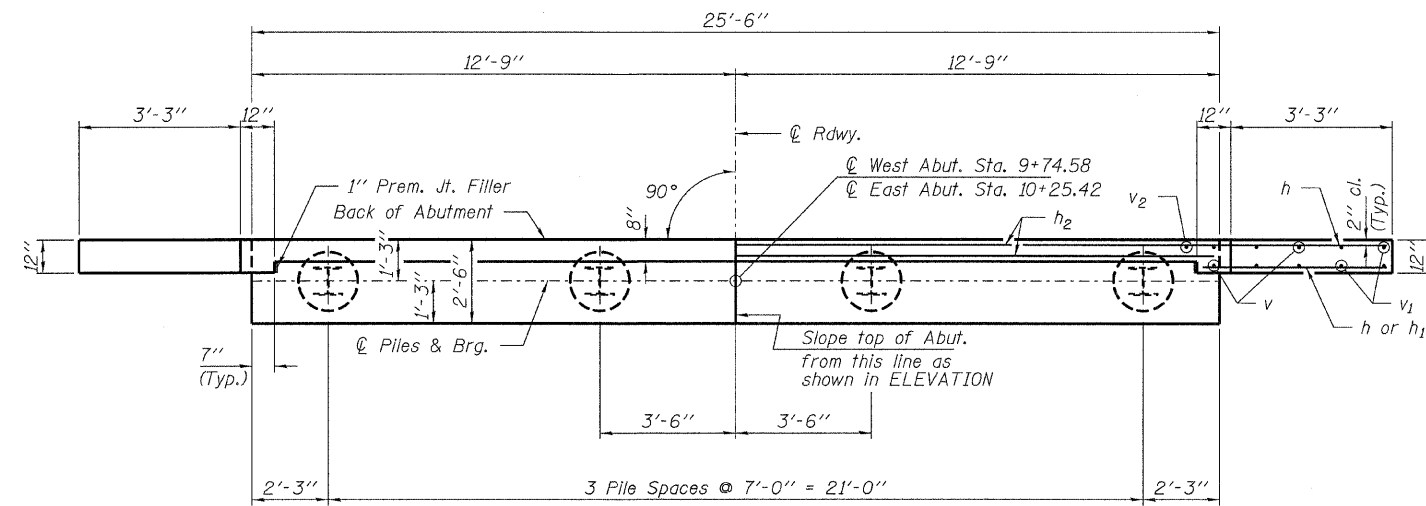
VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	105

R-23A 7-1-10 (10'-9" Maximum Post Spacing)

FILE NAME = 100231-ah-bridge.dgn		USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	STEEL RAILING, TYPE S-1 STRUCTURE NO. 030-3134 SHEET NO. 5 OF 8 SHEETS	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.			CHECKED - S.W.M.	REVISED -			892	10-00075-00-BR	GALLATIN	25	22	
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		PLOT SCALE =	DRAWN - D.T.M.	REVISED -			CONTRACT NO. 99456					
ILLINOIS PROFESSIONAL DESIGN FIRM L8 / P8 / SE CORP. 184-900959		PLOT DATE = 3/14/2011	CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT					



Note: Extend h bars into abutment cap.

SECTION A-A
Hatched area to be poured
after beams are in place.

Hatched area to be poured
after beams are in place.

BILL OF MATERIAL - 2 ABUTS.

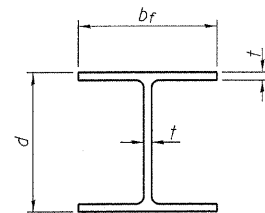
BAR	NO.	SIZE	LENGTH	SHAPE
h	40	#4	5'-6"	=====
h_1	8	#4	4'-0"	=====
h_2	4	#4	25'-2"	=====
p	16	#7	25'-2"	=====
p_1	20	#4	25'-2"	=====
s	30	#5	11'-7"	□
u	16	#6	12'-1"	=====
v	24	#4	4'-5"	=====
v_1	16	#4	3'-5"	=====
v_2	104	#4	2'-8"	=====
Concrete Structures			Cu. Yd.	22.0
Concrete Encasement			Cu. Yd.	2.8
Reinforcement Bars			Pound	2,340
Steel Piles HP10x42			Foot	240
Name Plates			Each	1

PILE DATA

Type	Steel HP10x42
No. Req'd. (2 Abuts.)	8
Factored Resistance Available (Rf)	184 Kips/Pile
Nominal Required Bearing (Rn)	335 Kips/Pile
Est. Length	30 Ft/Pile

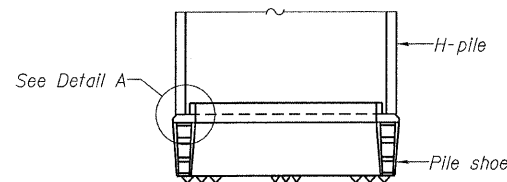
Notes: The Steel H-Piles shall be according to AASHTO M270 Grade 50.

FILE NAME = 100231-sht-bridge.dgn		USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	ABUTMENTS STRUCTURE NO. 030-3134	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
 HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM 03/17/02 REG. NO. 184-000599	PLDT SCALE =	CHECKED - S.W.M.	REVISED -	892			10-00075-00-BR	GALLATIN	25	23	
	PLDT DATE = 3/14/2011	DRAWN - D.T.M.	REVISED -	CONTRACT NO. 99456							
		CHECKED - S.W.M.	REVISED -	ILLINOIS FED. AID PROJECT							

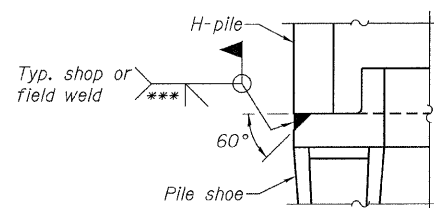


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 5/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 5/8"	7/16"	24"
HP 8x36	8"	8 7/8"	7/16"	18"

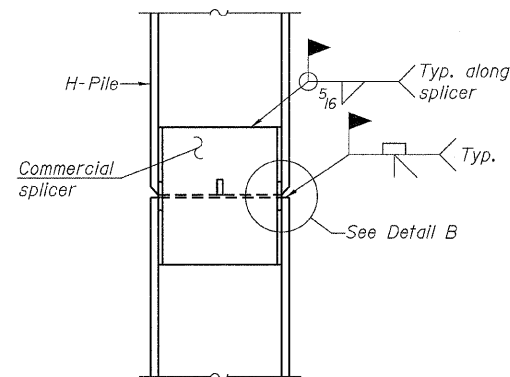


ELEVATION

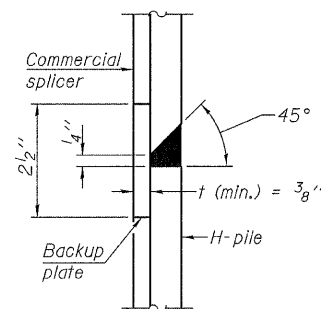


DETAIL A

H-PILE SHOE ATTACHMENT

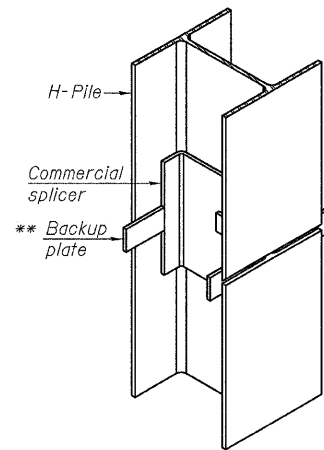


ELEVATION

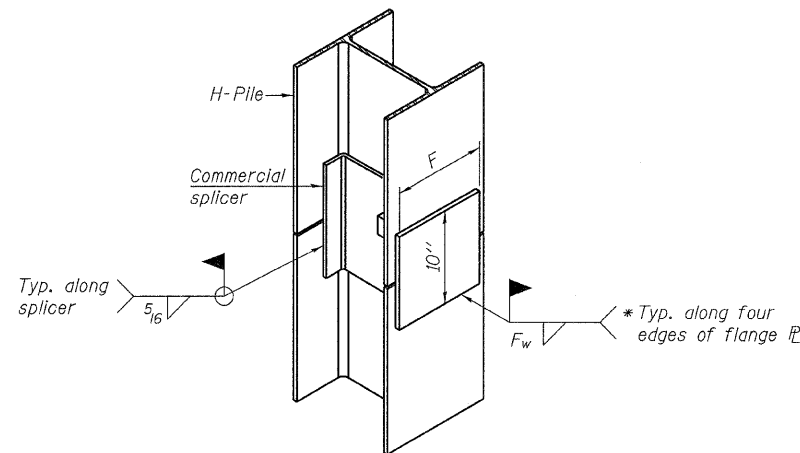


DETAIL "B"

WELDED COMMERCIAL SPLICE



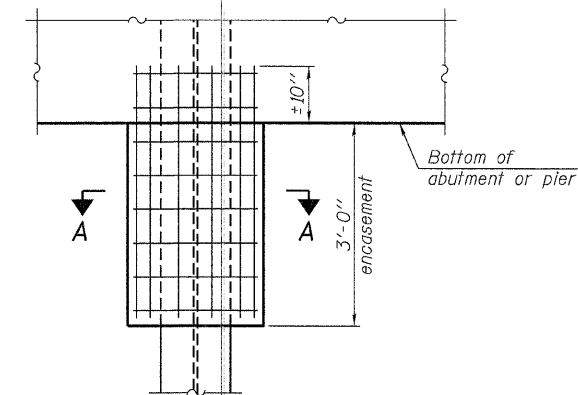
ISOMETRIC VIEW



ISOMETRIC VIEW

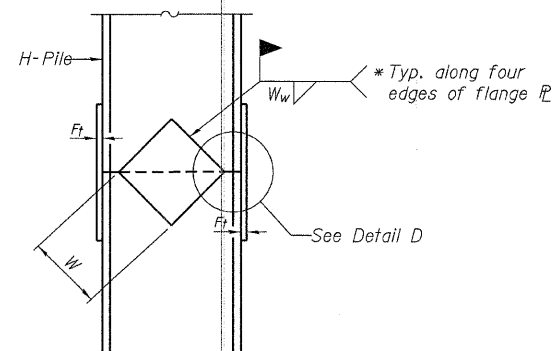
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

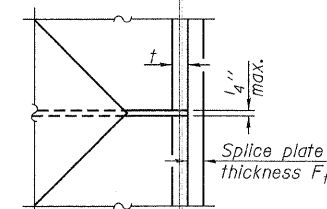


ELEVATION

PILE ENCASEMENT

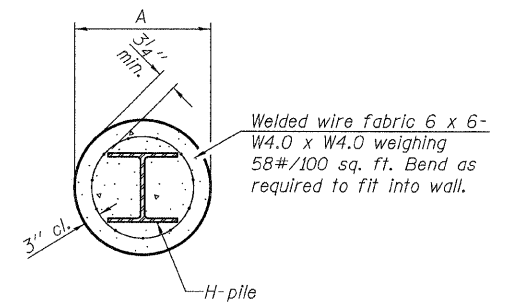


ELEVATION



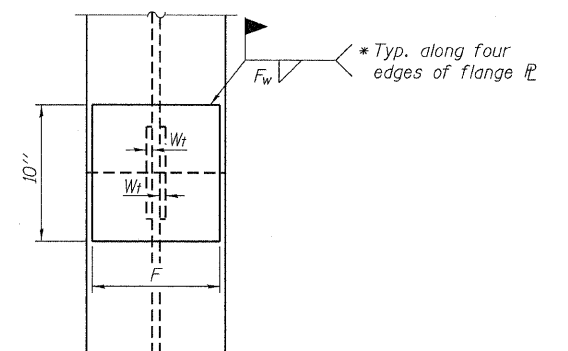
DETAIL D

WELDED PLATE FIELD SPLICE



SECTION A-A

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



END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 8/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 8/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 8/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 8/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 8/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 8/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F - HP

7-1-10

FILE NAME = 100231-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS GALLATIN COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 030-3134	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -			892	10-00075-00-BR	GALLATIN	25	24
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - D.T.M.	REVISED -			CONTRACT NO. 99456				
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000959	PLOT DATE = 3/14/2011	CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT				

HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax

Page 1 of 1

Bridge Foundation Boring Log

Project: H-10247 Bridge _____ Date: 1/3/2011
Section: _____ Station _____
Route: Ringgold Rd Bored by: D. Russell
County: Gallatin Checked By: T. Holcomb

Boring No: 1	Elevation	N	Qu	tsf	Surface Water Elev.	Elevation	N	Qu	tsf
Station: _____					Ground Water Elev. _____				
Offset: _____					During Drilling none				
					Upon Completion plugged				
Ground Surface 100.6	0				silty clay (continued)				
Brown Mottled Gray Clayey SILT (A-4)									
		8	1.15	23	Gray Mottled Brown Silty CLAY (A-6) with sand	-25	8	2.38	23
96.6									
Gray Mottled Brown Clayey SILT (A-4) with sand	-5	4	0.95	21	Brown Mottled Gray Clayey SILT (A-4)		11	2.55	26
94.1									
Gray Mottled Brown Clayey SILT (A-4)		5	1.35	22	Gray Mottled Brown Clayey SILT (A-4) with sand	-30	7	1.28	24
	-10	3	0.75	26					
		4	1.45	25	Gray Mottled Brown SANDSTONE	-35			
86.6									
Gray Mottled Brown Clayey SILT (A-4) with sand	-15	6	2.05	25	Brown Mottled Gray SANDSTONE	-35			
		6	1.95	24	End of Boring @ -39.0'	-40			
81.6									
Gray SILT (A-2-4)	-20	6	2.68	19					
79.1									
Gray-Brown Silty CLAY (A-6)		6	1.48	23					

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu=Unconfined Compressive Strength in tons/sq.ft.
w=Water Content-percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

BORING