

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED  
SURFACE TRANSPORTATION PROGRAM – BRIDGE**

**PROJECT BRS-0373(109)  
SECTION 10-00163-00-BR  
STARK COUNTY  
C.H. 3 / SOUTH VALLEY ROAD  
C-94-071-12**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 373	10-00163-00-BR	STARK	29	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO.	80921	

**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.	GUARDRAIL LAYOUT
6-9.	CULVERT PLANS
10-12.	BORINGS
13-14.	EXISTING STRUCTURE PLANS
15-29.	STATION CROSS SECTIONS

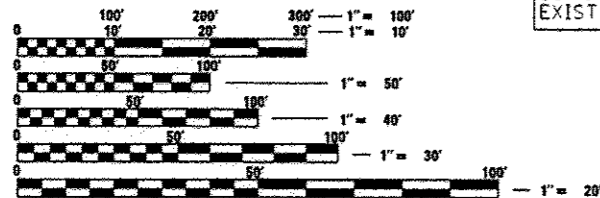
**HIGHWAY STANDARDS:**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-09	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
667101-02	PERMANENT SURVEY MARKERS
701201-04	LANE CLOSURE, 2L, 2W, DAYS ONLY, FOR SPEEDS ≥ 45MPH
701901-02	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 23-4	TRAFFIC BARRIER TERMINAL, TYPE 1
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

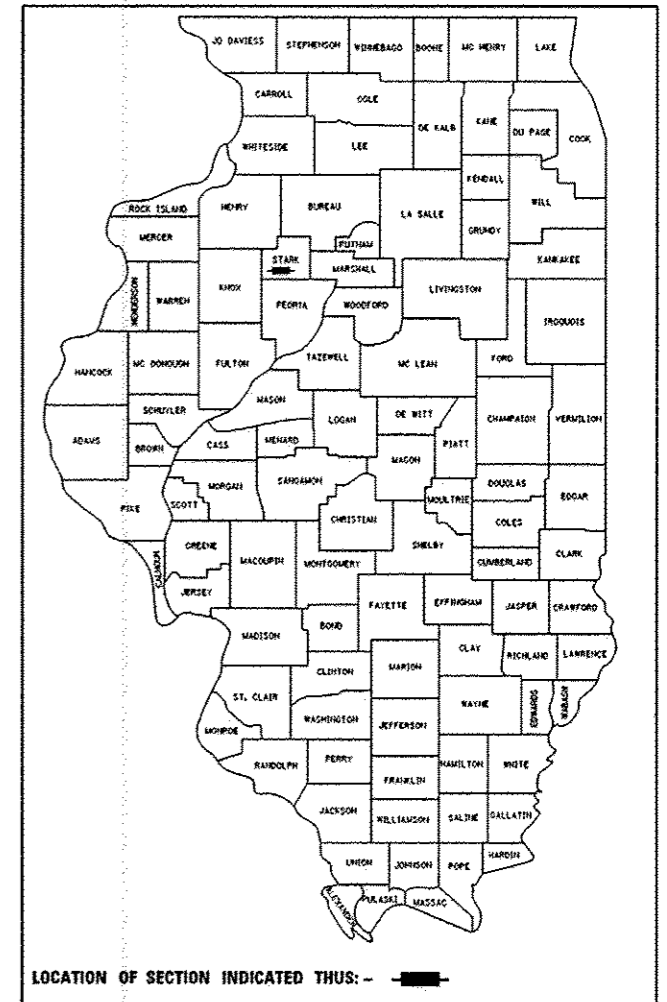
**UTILITIES**

FRONTIER COMMUNICATIONS  
ENGINEERING DEPARTMENT  
104 MULBERRY  
NORMAL, ILLINOIS 61671

AMEREN  
300 LIBERTY STREET  
PEORIA, ILLINOIS 61602

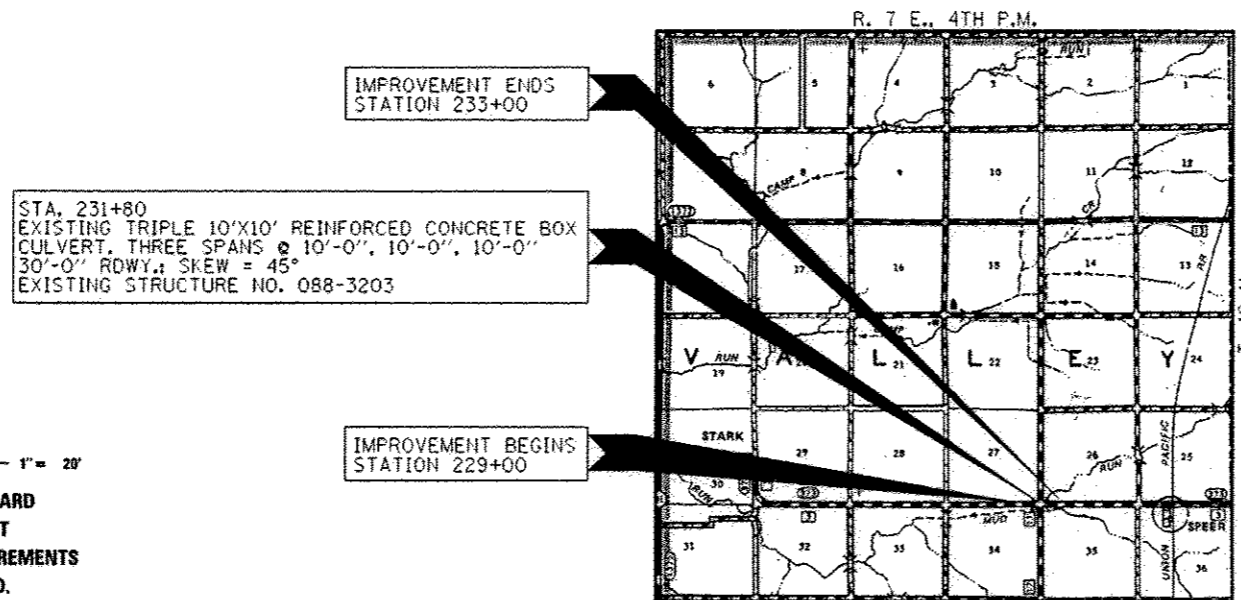


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



LOCATION OF SECTION INDICATED THUS: — ■ —

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)  
DESIGN SPEED: 50 MPH  
DESIGN TRAFFIC: 450 ADT (2013)



**LOCATION MAP**

APPROXIMATE SCALE: 0 1 MILE  
NET LENGTH OF SECTION = 400 FEET = 0.075 MILES

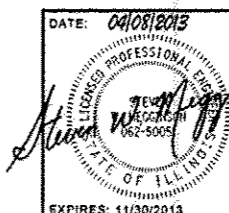


**ILLINOIS DEPARTMENT OF TRANSPORTATION**

APPROVED: *[Signature]* 4/9/13 2013  
COUNTY ENGINEER

PASSED: *[Signature]* 04/10/13 2013  
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review: *[Signature]* 04/16/13 2013  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION THREE ENGINEER  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**HAMPTON, LENZINI AND RENWICK, INC.**  
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS  
**HLR**  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
217.548.3400 www.hlrengineering.com  
184.000859  
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

DATE: 04/08/2013  
EXPIRES: 11/30/2013

PROJECT NUMBER: 10.0001.150 | DATE: 04/08/13

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL
			CONSTRUCTION TYPE CODE 0014
20200100	EARTH EXCAVATION	CU YD	33
20300100	CHANNEL EXCAVATION	CU YD	100
25100630	EROSION CONTROL BLANKET	SQ YD	550
28100209	STONE RIPRAP, CLASS A5	TON	650
28200200	FILTER FABRIC	SQ YD	640
35101400	AGGREGATE BASE COURSE, TYPE B	TON	50
48101200	AGGREGATE SHOULDERS, TYPE B	TON	190
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1160
54003000	CONCRETE BOX CULVERTS	CU YD	3.7
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	160
<del>5900200</del>	EPOXY CRACK INJECTION	FOOT	100
* 63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	150
* 63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	88
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
66700205	PERMANENT SURVEY MARKERS, TYPE 1	EACH	1
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	85
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1
X5010205	REMOVAL OF EXISTING STRUCTURE, SPECIAL	EACH	1
X5121800	PERMANENT STEEL SHEET PILING	SQ FT	3565
X6320100	GUARDRAIL REMOVAL SPECIAL	FOOT	400
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	200
Z0013798	CONSTRUCTION LAYOUT	L SUM	1

^ SEE SPECIAL PROVISIONS

\* SPECIALTY ITEMS

### GENERAL NOTES

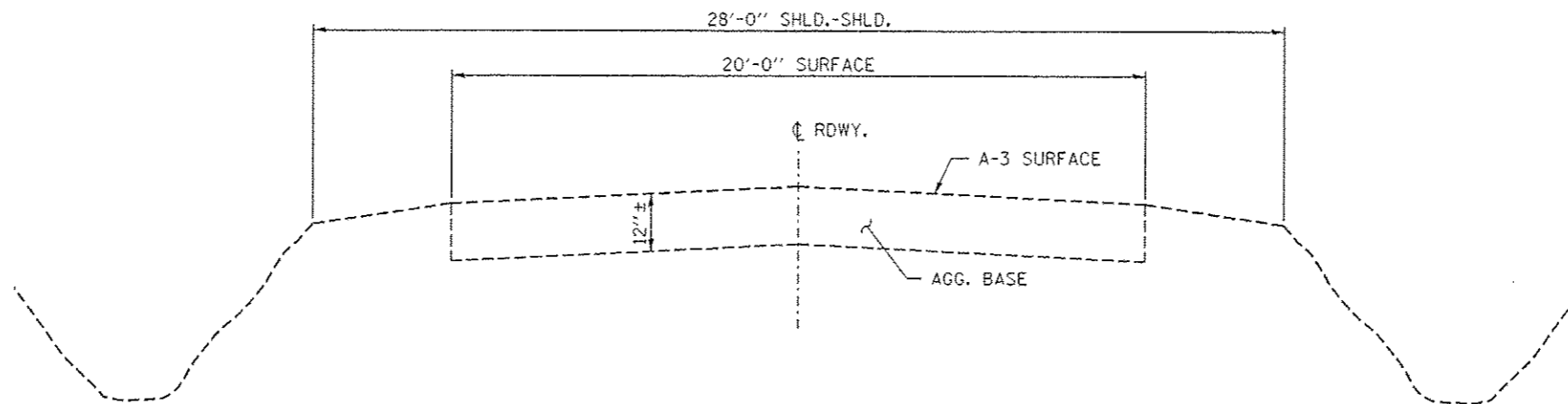
- 1) ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012. THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2) THE REVISION NUMBERS OF THE STANDARDS LISTED IN THE PLANS ARE TO BE USED FOR CONSTRUCTING THIS SECTION.
- 3) ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 4) THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS 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.
- 5) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 6) THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 

STONE BEDDING	1.80 TON/CU YD
STONE RIPRAP, CLASS A5	1.75 TON/CU YD
AGGREGATE BASE COURSE	2.05 TON/CU YD
POROUS GRANULAR EMBANKMENT	2.00 TON/CU YD
AGGREGATE SHOULDERS	2.0 TON/CU YD
- 7) THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.1 ACRES
- 8) CHANNEL EXCAVATION SHALL BE USED FOR FINAL SHAPING OF THE CHANNEL BANKS AND BOTTOM AS DIRECTED BY THE ENGINEER.
- 9) ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 10) EXISTING GUARDRAIL SHALL BE REMOVED AND SALVAGED BY THE CONTRACTOR. THESE ITEMS SHALL BE STOCKPILED ON SITE AND BECOME PROPERTY OF THE COUNTY.

### EARTHWORK SUMMARY

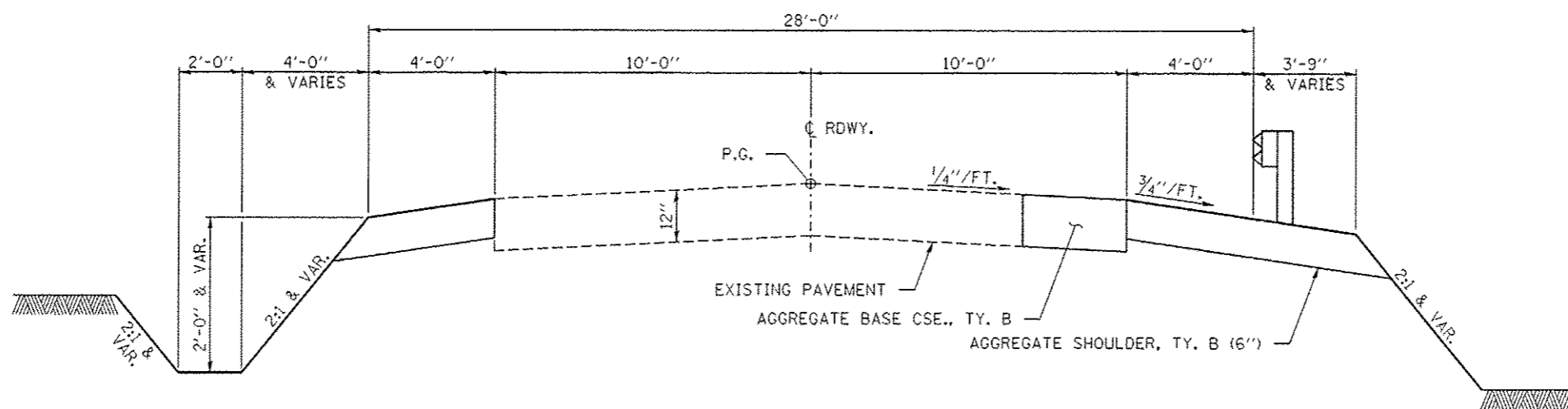
LOCATION	EARTH EXCAVATION	MISC. EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	20200100						
	CU YD	CU YD			CU YD	CU YD	CU YD
SOUTH VALLEY ROAD							
STA 229+00 TO STA 230+60	14		25.00%	100.00%	11	4	7
STA 231+39 TO STA 233+00	6		25.00%	100.00%	5	29	-25
			25.00%	100.00%	0		0
HOLMES ROAD							
STA 11+45 TO STA 100+80	13		25.00%	100.00%	10	19	-9
CHANNEL EXCAVATION		100	25.00%	50.00%	38		38
EXC FROM RIPRAP		369	25.00%	50.00%	138		138
TOTAL	33				201	52	149
USE	33						150

WASTE EXCAVATION 150 CU YDS



**EXISTING TYPICAL CROSS SECTION**

STA. 229+00 TO STA. 233+00 - C.H. 3  
 STA. 11+00 TO STA. 12+83.08 - C.H. 17  
 STA. 99+50 TO STA. 101+00 - T.R. 132



**PROPOSED TYPICAL CROSS SECTION**

STA. 229+00 TO STA. 233+00 - C.H. 3  
 STA. 11+00 TO STA. 12+83.08 - C.H. 17  
 STA. 99+50 TO STA. 101+00 - T.R. 132

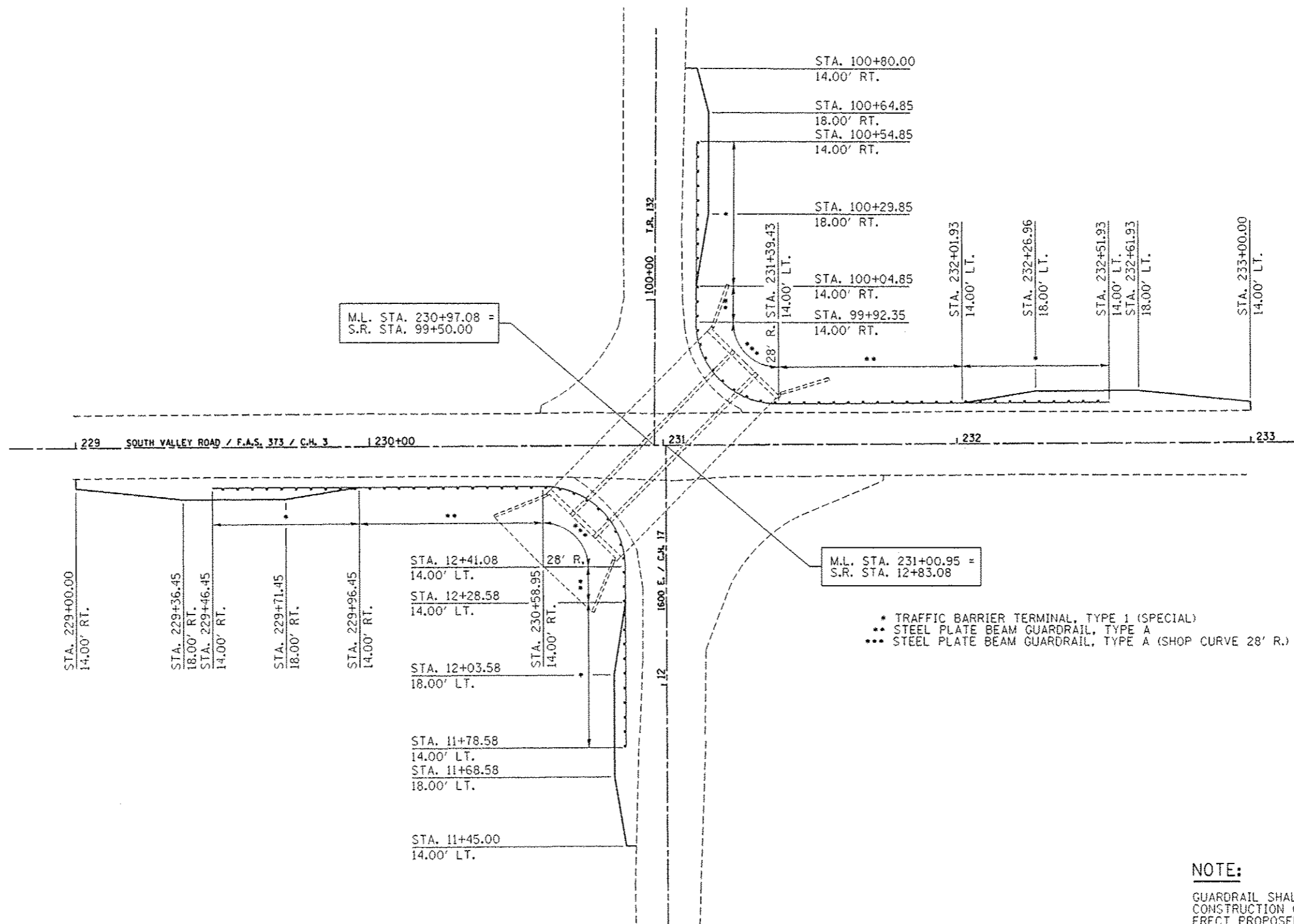
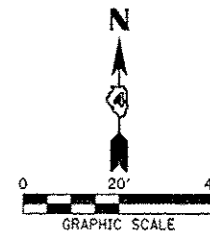
SUGGESTED CUT SECTION  
 CONSTRUCT AS SHOWN IN  
 STATION CROSS SECTIONS

SUGGESTED FILL SECTION  
 CONSTRUCT AS SHOWN IN  
 STATION CROSS SECTIONS

NOTE:  
 AGGREGATE BASE COURSE SHALL BE  
 CONSTRUCTED IF PAVEMENT IS DAMAGED  
 DURING STRUCTURE IMPROVEMENTS.

FILE NAME * 100001-shl-typcrosssections.dgn	USER NAME *	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL CROSS SECTIONS SOUTH VALLEY ROAD /C.H. 3</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 5045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - R.D.H.	REVISED -		373	10-0016-00-BR	STARK	29	3		
PLOT SCALE =		CHECKED - S.W.M.	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 89621		ILLINOIS FED. AID PROJECT		
PLOT DATE = 4/8/2013		DATE - 04/08/13	REVISED -								

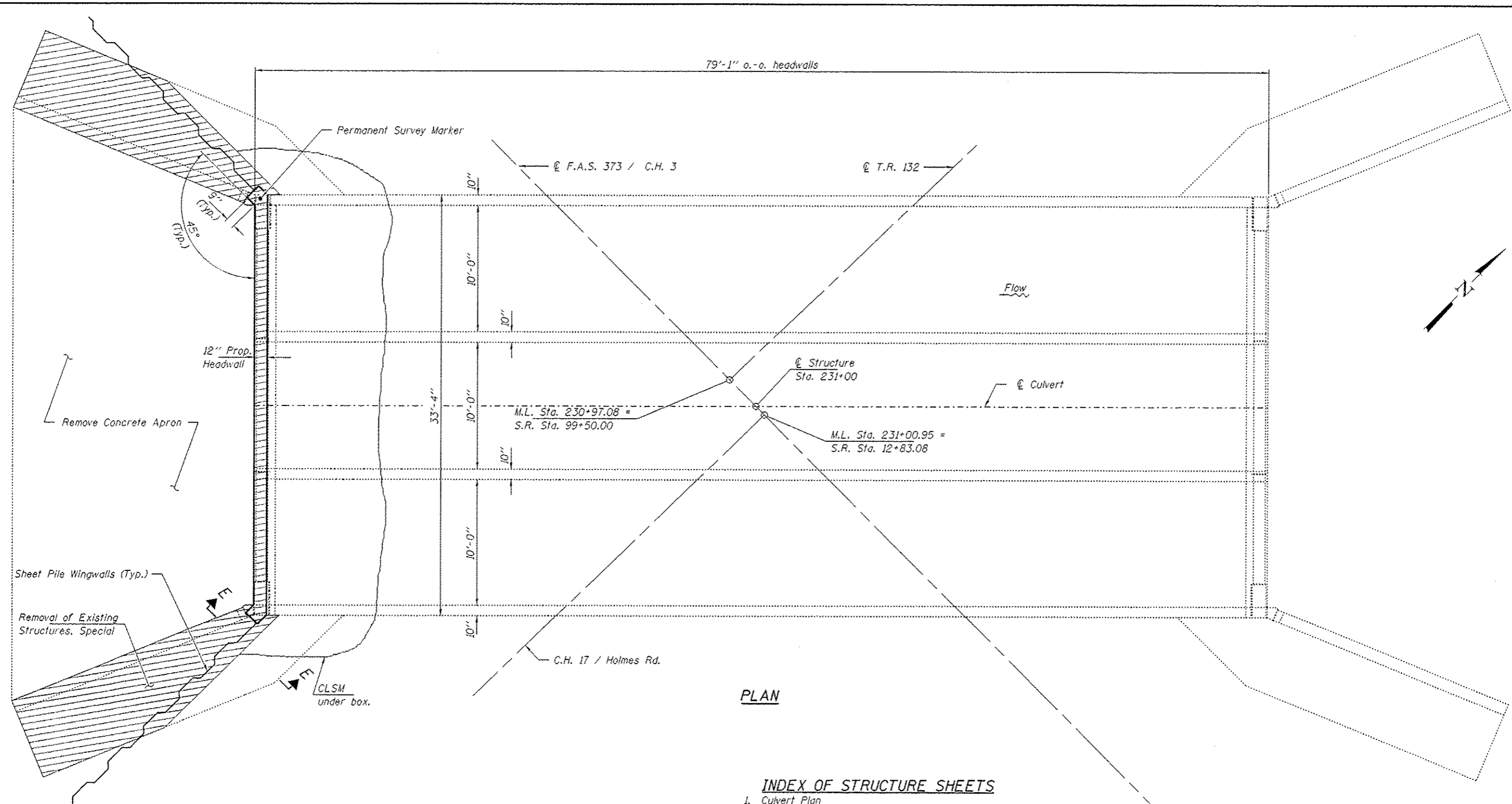




**NOTE:**  
 GUARDRAIL SHALL BE REMOVED ONLY AS NEEDED FOR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ERECT PROPOSED GUARDRAIL AS SOON AS POSSIBLE. TRAFFIC CONTROL PLAN SHALL APPLY TO AREAS WITH GUARDRAIL REMOVED.

**SHOULDER / GUARDRAIL LAYOUT**

FILE NAME * 100201-shl-shoulder-guardrail	USER NAME *	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CENTERLINE, GUARDRAIL AND SHOULDER LAYOUT SOUTH VALLEY ROAD / C.H. 3</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3030 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.A.B.	REVISED -		373	10-00163-00-BR	STARK	29	5	CONTRACT NO. 89621	
ILLINOIS PROFESSIONAL DESIGN FIRM LS/PE/SE CORP. 18400599		CHECKED - S.W.M.	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
		DATE - 04/08/13	REVISED -								



PLAN

INDEX OF STRUCTURE SHEETS

- 1. Culvert Plan
- 2. Riprap Details
- 3-4. Culvert Details
- 5-7. Borings
- 8-9. Existing Plans

LOADING HS-15 (EXIST.)

DESIGN STRESSES (PROP.)

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

DESIGN SPECIFICATIONS

2012 AASHTO LRFD with all applicable Interims.

LOADING HL-93

50#/Sq. Ft. included in dead load for future wearing surface.

WATERWAY INFORMATION

Drainage Area = 7.26 Sq. Mi.		Existing Low Grade Elev. 700.3 @ Sta. 229+00		Proposed Low Grade Elev. 700.3 @ Sta. 229+00		
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.	Natural H.W.E.	Head - Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Design	10	1430	160	694.26	0.05	694.31
Base	20	1770	190	295.03	0.12	695.15
Max. Calc.	100	2590	230	696.44	1.14	697.58
	500	3470	260	697.33	1.55	698.88

10 Year Velocity through Existing Bridge = 8.9 Tps

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

*Steven W. Megginson* 04/08/2013  
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



TOTAL BILL OF MATERIAL

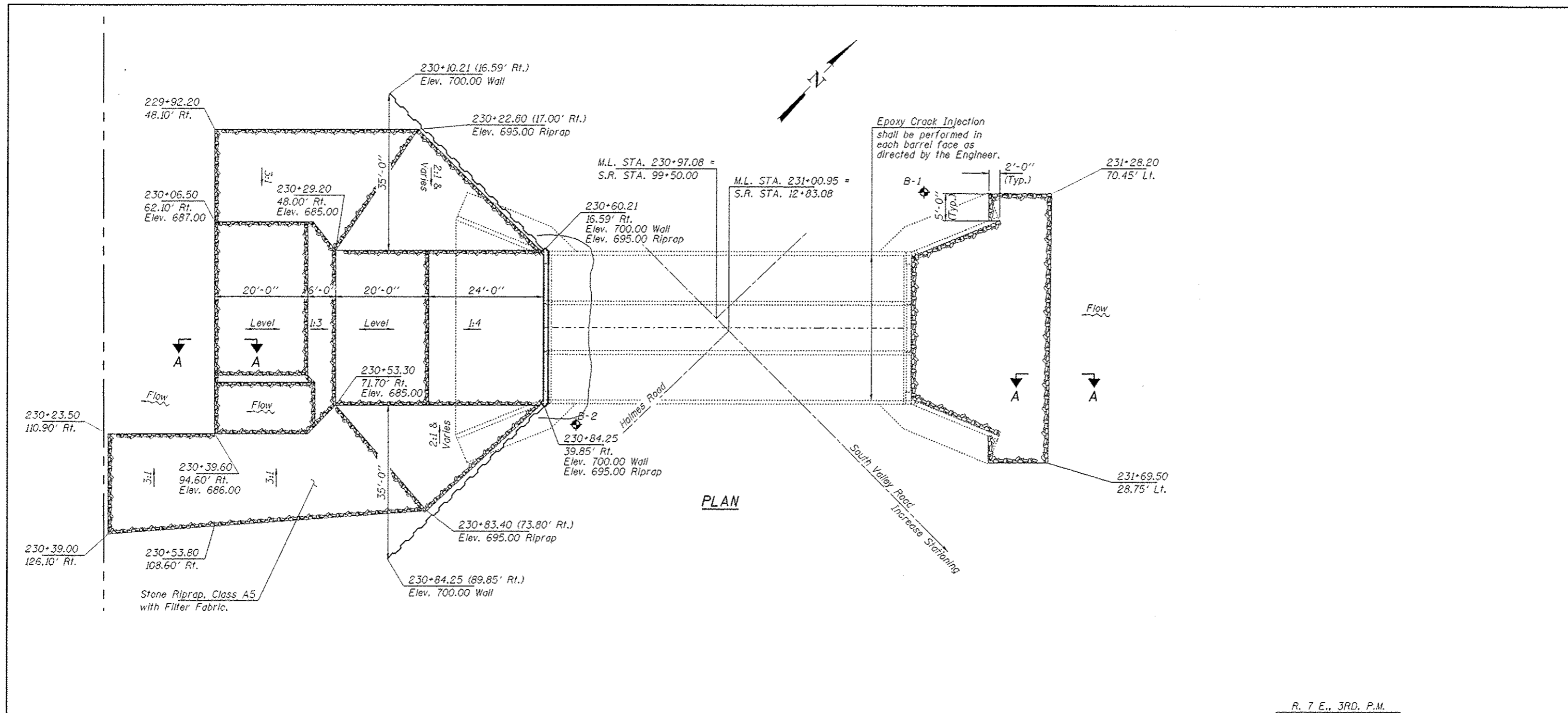
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Ton			650
Filter Fabric	Sq. Yd.			640
Concrete Box Culverts	Cu. Yd.		3.7	3.7
Reinforcement Bars, Epoxy Coated	Pound		1,160	1,160
Permanent Steel Sheet Piling	Sq. Ft.	3,565		3,565
Porous Granular Embankment, Special	Ton		85	85
Epoxy Crack Injection	Foot			100
Structural Repair of Concrete < 5"	Sq. Ft.			200
Permanent Survey Marker	Each			1
Removal of Existing Structures, Special	Each			1

FILE NAME = 100001-sh-culvert.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
303 STEVENSON DRIVE, SUITE 201		DRAWN - D.A.B.	REVISED -
SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT DATE = 4/8/2013		
LSI/PE/ISE CORP. 184.000948			

STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

CULVERT DETAILS  
 STRUCTURE NO. 088-3203  
 SHEET NO. 1 OF 9 SHEETS

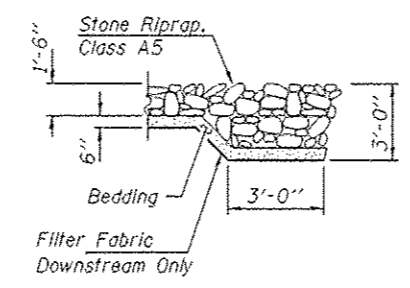
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	10-00163-00-BR	STARK	29	6
SOUTH VALLEY ROAD			CONTRACT NO. 89621	
ILLINOIS FED. AID PROJECT				



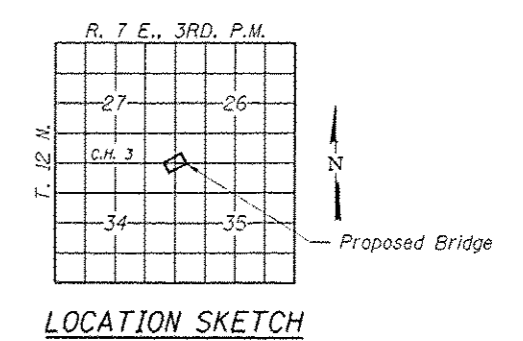
PLAN

**GENERAL NOTES**

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 Filter Fabric required only for downstream riprap placement. Not required for upstream.



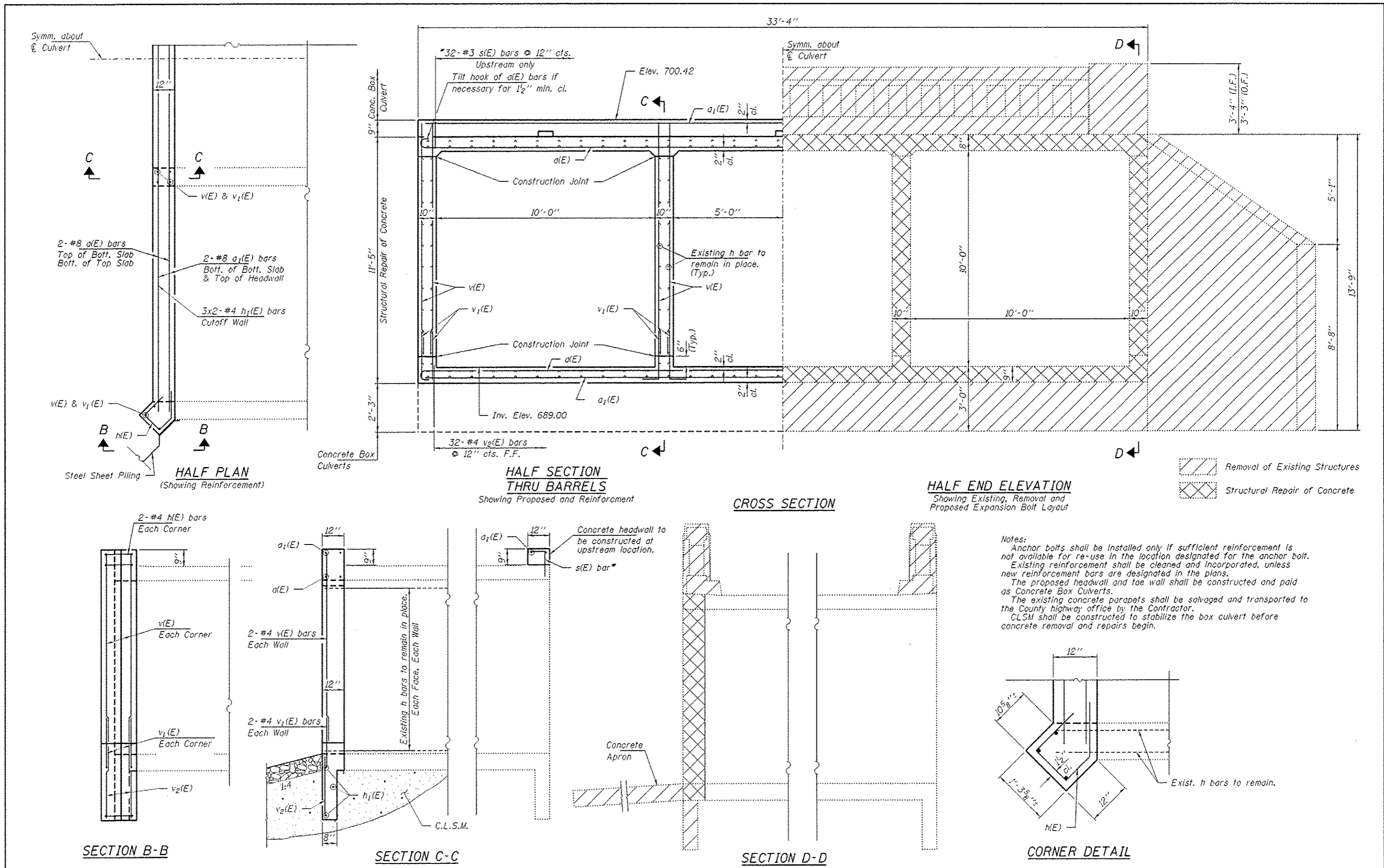
SECTION A-A



LOCATION SKETCH

**BILL OF MATERIAL**

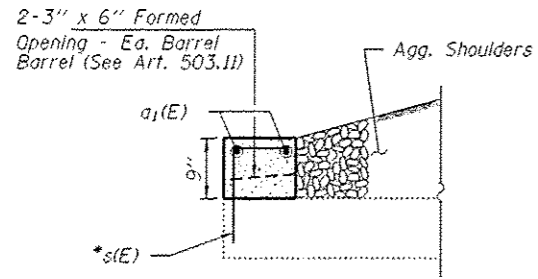
Item	Unit	Quantity
Stone Riprap, Class A5	Ton	650
Filter Fabric	Sq. Yd.	640



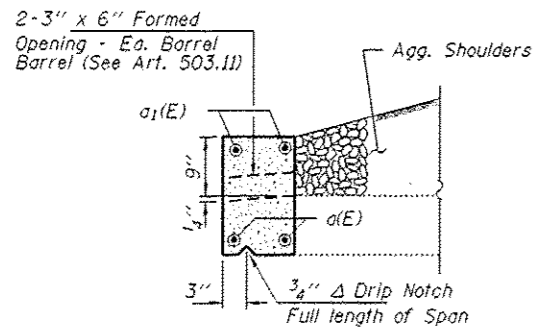
Notes:  
 Anchor bolts shall be installed only if sufficient reinforcement is not available for re-use in the location designated for the anchor bolt.  
 Existing reinforcement shall be cleaned and incorporated, unless new reinforcement bars are designated in the plans.  
 The proposed headwall and toe wall shall be constructed and paid as Concrete Box Culverts.  
 The existing concrete parapets shall be salvaged and transported to the County highway office by the Contractor.  
 CLSM shall be constructed to stabilize the box culvert before concrete removal and repairs begin.

FILE NAME # 100001-eh-culvert.dgn	USER NAME #	DESIGNED - L.A.P.	REVISED -	<b>STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT</b>	<b>CULVERT DETAILS STRUCTURE NO. 088-3203</b>	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62765	FLOT SCALE #	CHECKED - S.W.M.	REVISED -			3	10-00163-00-BR	STARK	29	8	
ELR ILLINOIS PROFESSIONAL DESIGN FIRMS LLP / PC CORP. 164300930	FLOT DATE # 4/8/2013	DRAWN - D.A.B.	REVISED -			SOUTH VALLEY ROAD CONTRACT NO. 89621					
		CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT					



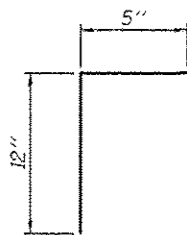


UPSTREAM END

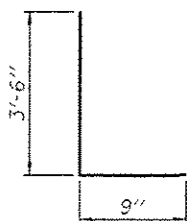


DOWNSTREAM END

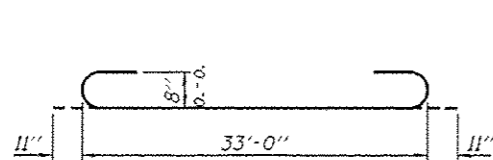
HEADWALL DETAILS



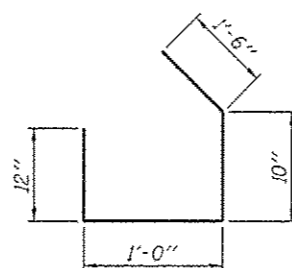
BAR  $s(E)$



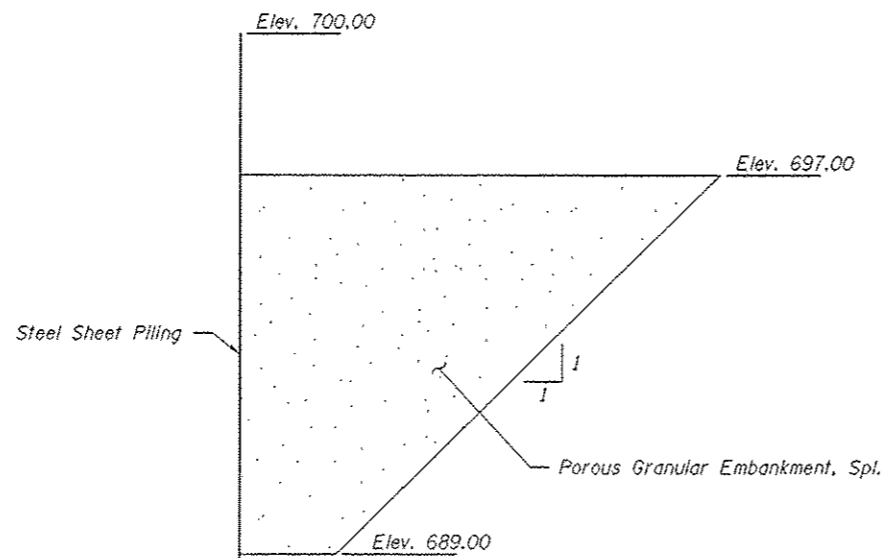
BAR  $v_1(E)$



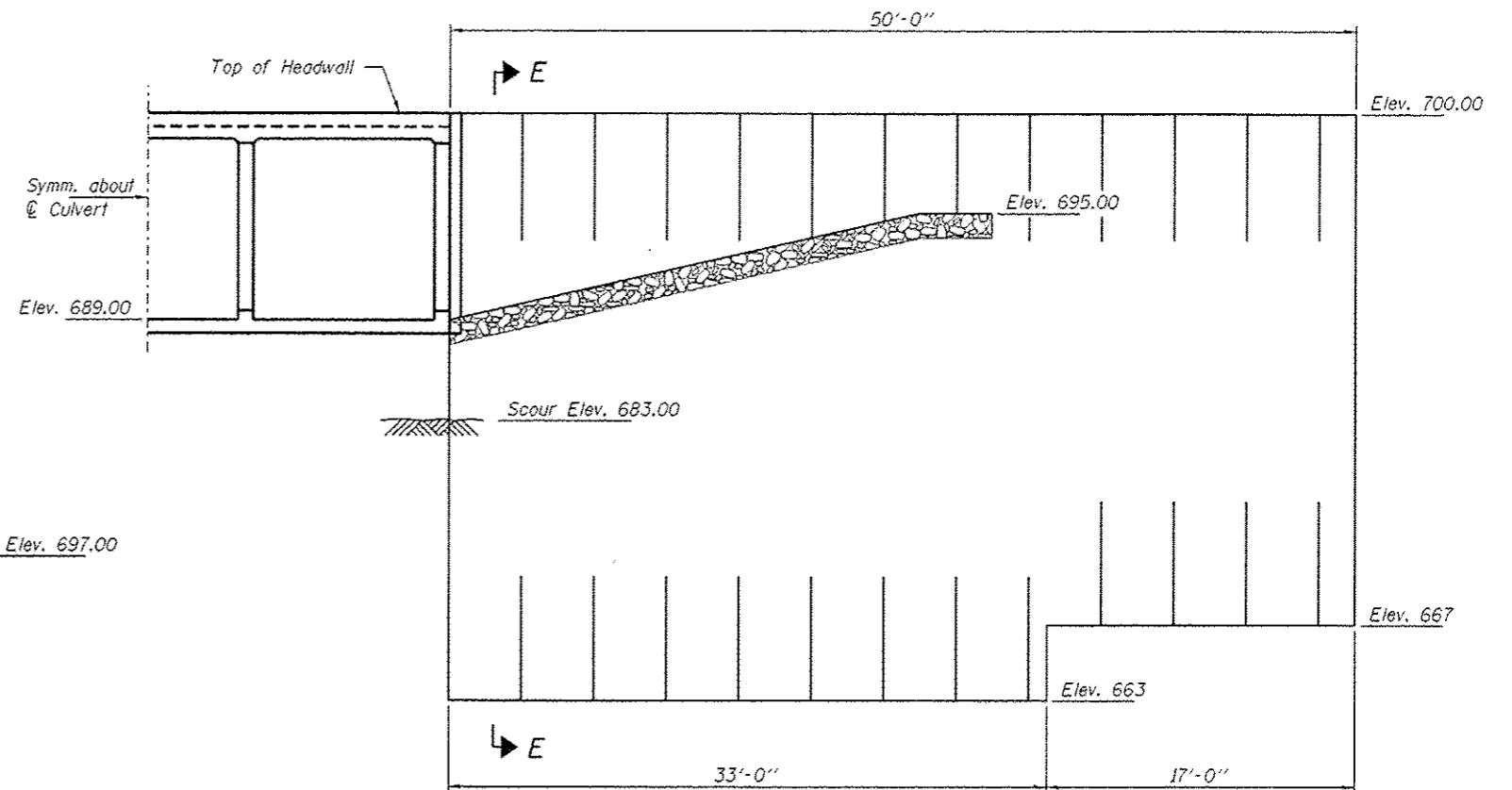
BAR  $a(E)$



BAR  $h(E)$



SECTION E-E



PERMANENT SHEET PILE DETAILS

(Typ. Each Wingwall)

Min.  $S_x = 40.0$  In  $\frac{3}{4}$  ft.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a(E)$	4	#8	35'-10"	
$a_1(E)$	6	#8	33'-0"	
$h(E)$	4	#4	4'-4"	
$h_1(E)$	6	#4	18'-0"	
$s(E)$	32	#3	1'-5"	
$v(E)$	8	#4	10'-9"	
$v_1(E)$	8	#4	4'-3"	
$v_2(E)$	32	#4	3'-2"	

\* $s(E)$  bars shall be drilled and set according to Article 509.06 of the Standard Specifications. Bars shall have a 5" minimum embedment depth, be set in  $\frac{5}{8}$ "  $\phi$  holes, and filled with approved epoxy grout.

**BORING NO. B-01**  
DATE: 04-26-10  
W. & A. FILE NO.: 5277

**WHITNEY & ASSOCIATES**  
INCORPORATED  
2408 West Nebraska Avenue  
PEORIA, ILLINOIS 61604

**BORING LOG**

PROJECT: STARK COUNTY BRIDGE - SECTION NO. 10-00163-00-BR  
LOCATION: Stark County, Illinois  
DATE: 04-26-10  
SHEET: 2 OF 9  
W. & A. FILE NO.: 5277

BORING LOCATION: Hollow Stem Auger  
BORING TYPE: U.S.B.C.  
WEATHER CONDITIONS: Partly Cloudy & Mild  
SOIL CLASSIFICATION SYSTEM: U.S.B.C.  
SEEPAGE WATER ENCOUNTERED AT ELEVATION: (-)13.5 FL.  
GROUND SURFACE ELEVATION: 0.0  
GROUND WATER ELEVATION AT COMPLETION: (-)11.8 FL.  
BORING DISCONTINUED AT ELEVATION: (-)61.0 FL.

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	Dc	Mc
5'						
11'						
04	SS	2 3 3(6)	1.0	0.9	97	22
	SS	3 3 4(7)	1.8	1.7	101	20
08	SS	3 3 3(6)	0.7	0.6	100	20
	SS	3 3 3(6)	1.0	0.9	103	19
12	SS	3 3 4(7)	-	-	-	16
16	SS	3 4 4(8)	-	-	-	-
20	SS	3 4 4(8)	-	-	-	-
24	SS	12 16(26) 15 20 24(44)	-	-	-	-

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES  
Qp - UNCONFIRMED COMPRESSIVE STRENGTH - T.S.F.  
Qc - CALIBRATED PENETROMETER READING - T.S.F.  
Dc - NATURAL DRY DENSITY - P.C.F.  
Mc - NATURAL MOISTURE CONTENT - %

SS - SPLIT SPoon SAMPLE  
ST - Shelby Tube Sample

WHITNEY & ASSOCIATES  
PEORIA, ILLINOIS

**BORING LOG**  
(CONTINUATION)

**BORING NO. B-01**  
DATE: 04-26-10

PROJECT: Stark County Bridge, Section #10-00163-00-BR  
LOCATION: Stark County, Illinois  
SHEET: 2 OF 9  
W. & A. FILE NO.: 5277

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	Dc	Mc
See Sheet 1 of 9						
	SS	20 22 24(46)	-	-	-	-
30	SS	12 9 10(19)	1.3	1.2	117	15
34	SS	5 8 10(18)	-	-	-	-
38						
42	SS	11 18 24(42)	-	-	-	-
46	SS	16 20 24(44)	-	-	-	-
50						
54	SS	13 15 19(34) 20 24 27(51)	-	-	-	-

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES  
Qp - UNCONFIRMED COMPRESSIVE STRENGTH - T.S.F.  
Qc - CALIBRATED PENETROMETER READING - T.S.F.  
Dc - NATURAL DRY DENSITY - P.C.F.  
Mc - NATURAL MOISTURE CONTENT - %

SS - SPLIT SPoon SAMPLE  
ST - Shelby Tube Sample

WHITNEY & ASSOCIATES  
PEORIA, ILLINOIS

**BORING LOG**  
(CONTINUATION)

**BORING NO. B-01**  
DATE: 04-26-10

PROJECT: Stark County Bridge, Section #10-00163-00-BR  
LOCATION: Stark County, Illinois  
SHEET: 3 OF 9  
W. & A. FILE NO.: 5277

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	Dc	Mc
See Sheet 2 of 9						
60	SS	18 22 25(47)	-	-	-	-
64						
68						
72						
76						
80						
84						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES  
Qp - UNCONFIRMED COMPRESSIVE STRENGTH - T.S.F.  
Qc - CALIBRATED PENETROMETER READING - T.S.F.  
Dc - NATURAL DRY DENSITY - P.C.F.  
Mc - NATURAL MOISTURE CONTENT - %

SS - SPLIT SPoon SAMPLE  
ST - Shelby Tube Sample

WHITNEY & ASSOCIATES  
PEORIA, ILLINOIS

**BORING B-01**  
Sta. 100+00 (10' R.I.)

**BORING LOG**  
 BORING NO. B-02 DATE 04-26-10  
 W & A FILE NO. 5277  
 SHEET 4 OF 9

**WHITNEY & ASSOCIATES**  
 INCORPORATED  
 2406 West Nebraska Avenue  
 PEORIA, ILLINOIS 61604

**BORING LOG**  
 PROJECT STARK COUNTY BRIDGE - SECTION NO. 10-00163-00-BR LOCATION Stark County, Illinois  
 BORING LOCATION See Plot Plan Sheet  
 BORING TYPE Hollow Stem Auger  
 WEATHER CONDITIONS Partly Cloudy & Mild  
 SOIL CLASSIFICATION SYSTEM U.S.B.S.C.  
 SEEPAGE WATER ENCOUNTERED AT ELEVATION (-)14.0 FL.  
 GROUND SURFACE ELEVATION 0.0  
 GROUND WATER ELEVATION AT COMPLETION (-)10.9 FL.  
 BORING DISCONTINUED AT ELEVATION (-)51.0 FL.

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	Qs	Mc
11						
15						
15	SS	1	1.0	-	-	15
16	SS	2	-	-	-	-
17	SS	1(3)	0.4	0.3	90	29
18	SS	0	-	-	-	-
19	SS	1	-	-	-	-
20	SS	0(1)	-	-	-	-
21	SS	2	1.8	1.7	97	22
22	SS	2	-	-	-	-
23	SS	0(5)	-	-	-	-
24	SS	2	1.3	1.1	102	18
25	SS	3	-	-	-	-
26	SS	0(6)	-	-	-	-
27	SS	7	-	-	-	15
28	SS	8(15)	-	-	-	-
29	SS	7	-	-	-	-
30	SS	8(15)	-	-	-	-
31	SS	6	-	-	-	-
32	SS	6	-	-	-	-
33	SS	7(13)	-	-	-	-
34	SS	6	-	-	-	-
35	SS	7	-	-	-	-
36	SS	8(15)	-	-	-	-
37	SS	5	-	-	-	-
38	SS	6	-	-	-	-
39	SS	7(13)	-	-	-	-
40	SS	6	-	-	-	-
41	SS	6	-	-	-	-
42	SS	8(14)	-	-	-	-

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES  
 Qp - CALIBRATED PENETROMETER READING - T.S.F.  
 Qc - UNCONFIRMED COMPRESSIVE STRENGTH - T.S.F.  
 Qs - NATURAL DRY DENSITY - P.C.F.  
 Mc - NATURAL MOISTURE CONTENT - %  
 SS - SPLIT SPoon SAMPLE  
 ST - Shelby Tube Sample

WHITNEY & ASSOCIATES  
 PEORIA, ILLINOIS

**BORING LOG**  
 (CONTINUATION)  
 BORING NO. B-02 DATE 04-26-10  
 W & A FILE NO. 5277  
 SHEET 5 OF 9

**BORING LOG**  
 PROJECT Stark County Bridge; Section #10-00163-00-BR LOCATION Stark County, Illinois  
 BORING LOCATION See Plot Plan Sheet  
 BORING TYPE Hollow Stem Auger  
 WEATHER CONDITIONS Partly Cloudy & Mild  
 SOIL CLASSIFICATION SYSTEM U.S.B.S.C.  
 SEEPAGE WATER ENCOUNTERED AT ELEVATION (-)14.0 FL.  
 GROUND SURFACE ELEVATION 0.0  
 GROUND WATER ELEVATION AT COMPLETION (-)10.9 FL.  
 BORING DISCONTINUED AT ELEVATION (-)51.0 FL.

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	Qs	Mc
See Sheet 4 of 9						
30	SS	7	-	-	-	-
31	SS	7	-	-	-	-
32	SS	9(16)	-	-	-	-
33	SS	6	-	-	-	-
34	SS	12(20)	-	-	-	-
35	SS	7	-	-	-	-
36	SS	6	-	-	-	-
37	SS	12(20)	-	-	-	-
38	SS	3	1.3	1.2	118	14
39	SS	4	-	-	-	-
40	SS	5(9)	-	-	-	-
41	SS	12	-	-	-	-
42	SS	15	-	-	-	-
43	SS	17(32)	-	-	-	-
44	SS	8	-	-	-	-
45	SS	16	-	-	-	-
46	SS	18(34)	-	-	-	-
47	SS	12	-	-	-	-
48	SS	18	-	-	-	-
49	SS	21(39)	-	-	-	-
50	SS	15	-	-	-	-
51	SS	22	-	-	-	-
52	SS	29(50)	-	-	-	-

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES  
 Qp - CALIBRATED PENETROMETER READING - T.S.F.  
 Qc - UNCONFIRMED COMPRESSIVE STRENGTH - T.S.F.  
 Qs - NATURAL DRY DENSITY - P.C.F.  
 Mc - NATURAL MOISTURE CONTENT - %  
 SS - SPLIT SPoon SAMPLE  
 ST - Shelby Tube Sample

WHITNEY & ASSOCIATES  
 PEORIA, ILLINOIS

**BORING LOG**  
 (CONTINUATION)  
 BORING NO. B-02 DATE 04-26-10  
 W & A FILE NO. 5277  
 SHEET 6 OF 9

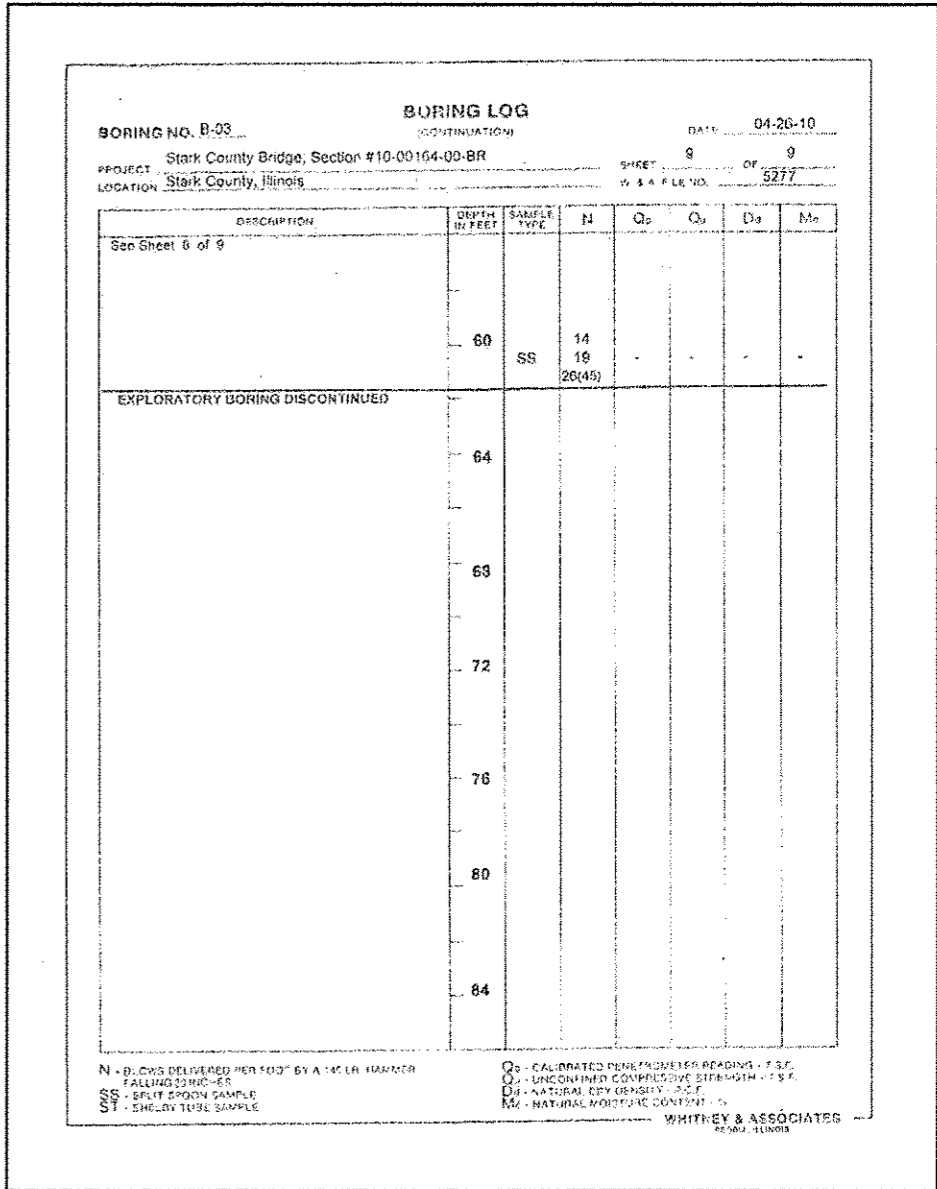
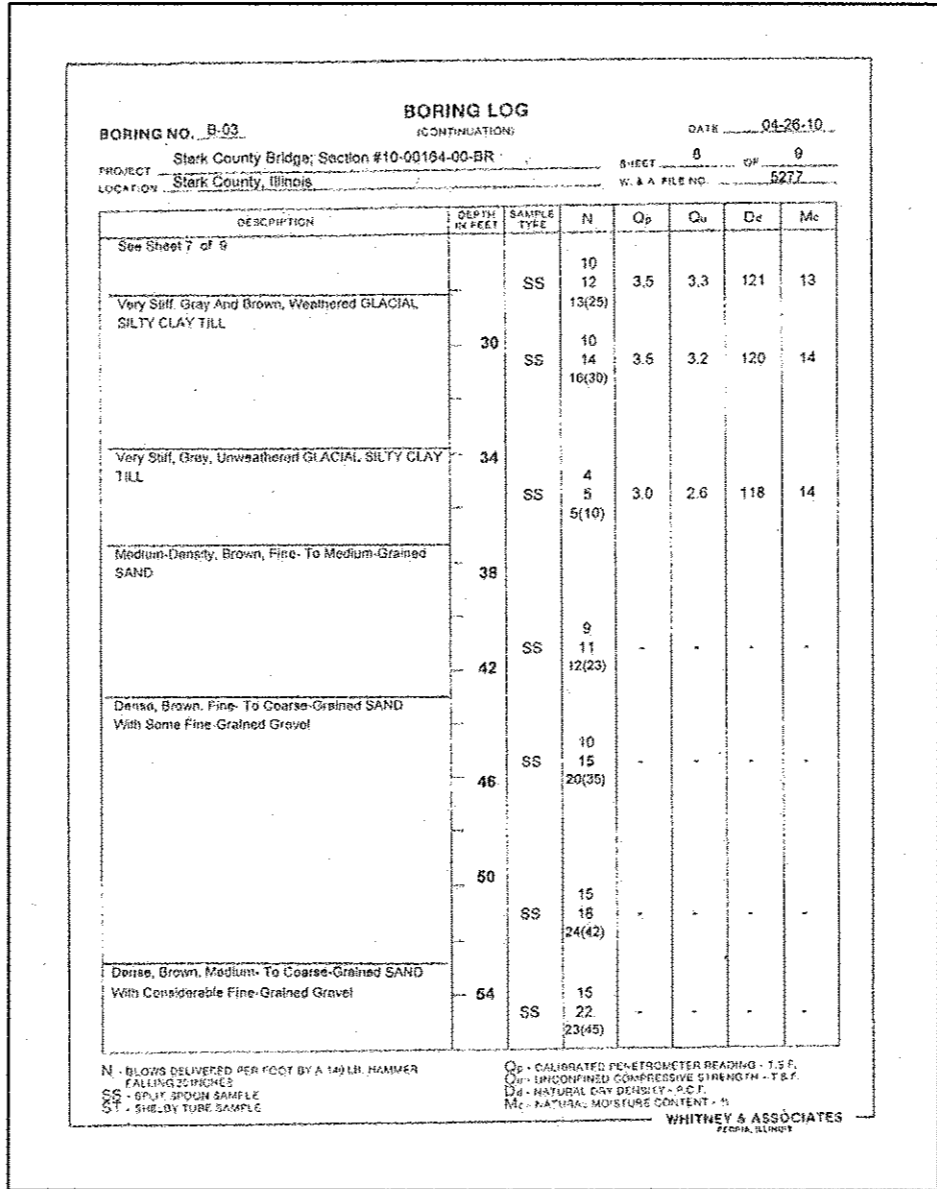
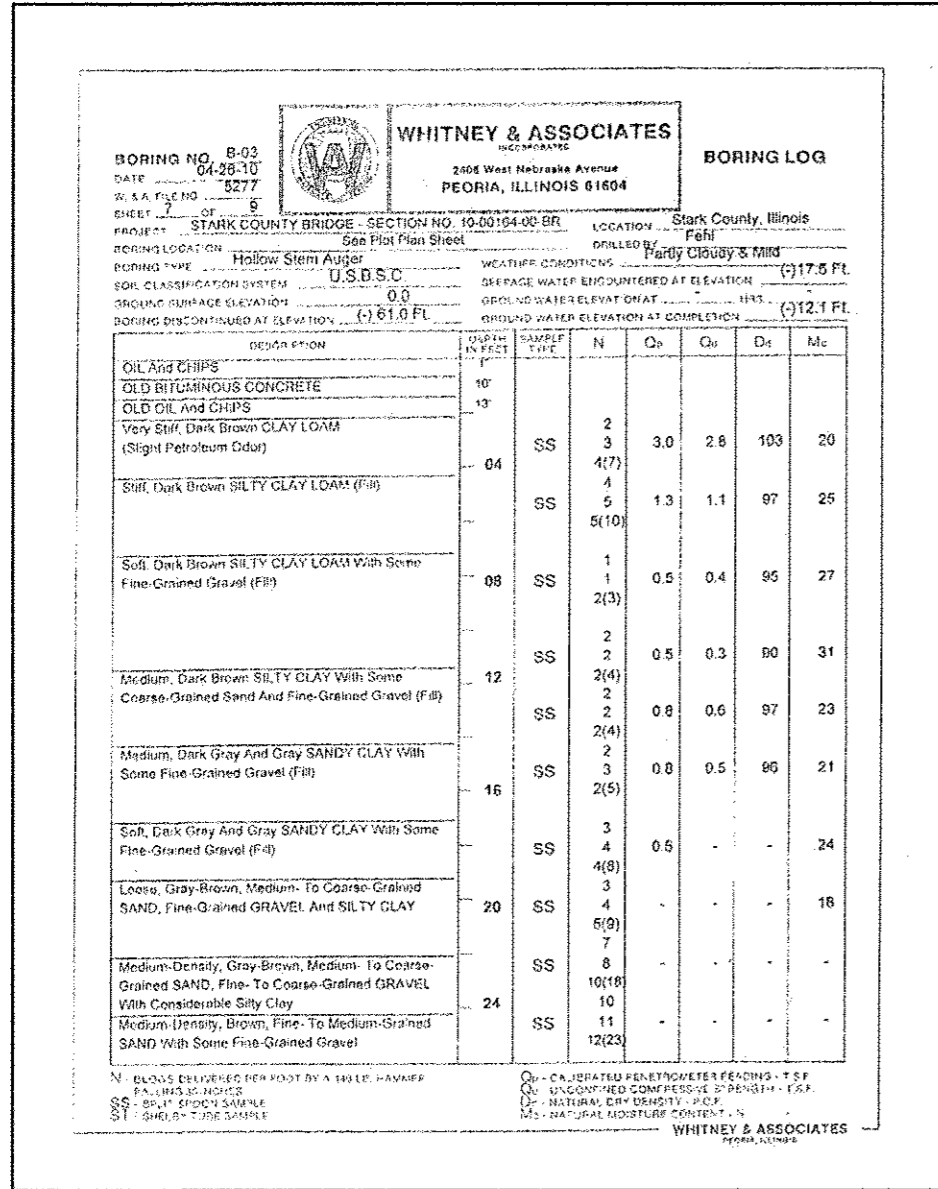
**BORING LOG**  
 PROJECT Stark County Bridge; Section #10-00163-00-BR LOCATION Stark County, Illinois  
 BORING LOCATION See Plot Plan Sheet  
 BORING TYPE Hollow Stem Auger  
 WEATHER CONDITIONS Partly Cloudy & Mild  
 SOIL CLASSIFICATION SYSTEM U.S.B.S.C.  
 SEEPAGE WATER ENCOUNTERED AT ELEVATION (-)14.0 FL.  
 GROUND SURFACE ELEVATION 0.0  
 GROUND WATER ELEVATION AT COMPLETION (-)10.9 FL.  
 BORING DISCONTINUED AT ELEVATION (-)51.0 FL.

DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	Qs	Mc
See Sheet 6 of 9						
60	SS	15	-	-	-	-
61	SS	18	-	-	-	-
62	SS	20(39)	-	-	-	-
63	SS	15	-	-	-	-
64	SS	18	-	-	-	-
65	SS	20(39)	-	-	-	-
66	SS	15	-	-	-	-
67	SS	18	-	-	-	-
68	SS	20(39)	-	-	-	-
69	SS	15	-	-	-	-
70	SS	18	-	-	-	-
71	SS	20(39)	-	-	-	-
72	SS	15	-	-	-	-
73	SS	18	-	-	-	-
74	SS	20(39)	-	-	-	-
75	SS	15	-	-	-	-
76	SS	18	-	-	-	-
77	SS	20(39)	-	-	-	-
78	SS	15	-	-	-	-
79	SS	18	-	-	-	-
80	SS	20(39)	-	-	-	-
81	SS	15	-	-	-	-
82	SS	18	-	-	-	-
83	SS	20(39)	-	-	-	-
84	SS	15	-	-	-	-

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES  
 Qp - CALIBRATED PENETROMETER READING - T.S.F.  
 Qc - UNCONFIRMED COMPRESSIVE STRENGTH - T.S.F.  
 Qs - NATURAL DRY DENSITY - P.C.F.  
 Mc - NATURAL MOISTURE CONTENT - %  
 SS - SPLIT SPoon SAMPLE  
 ST - Shelby Tube Sample

WHITNEY & ASSOCIATES  
 PEORIA, ILLINOIS

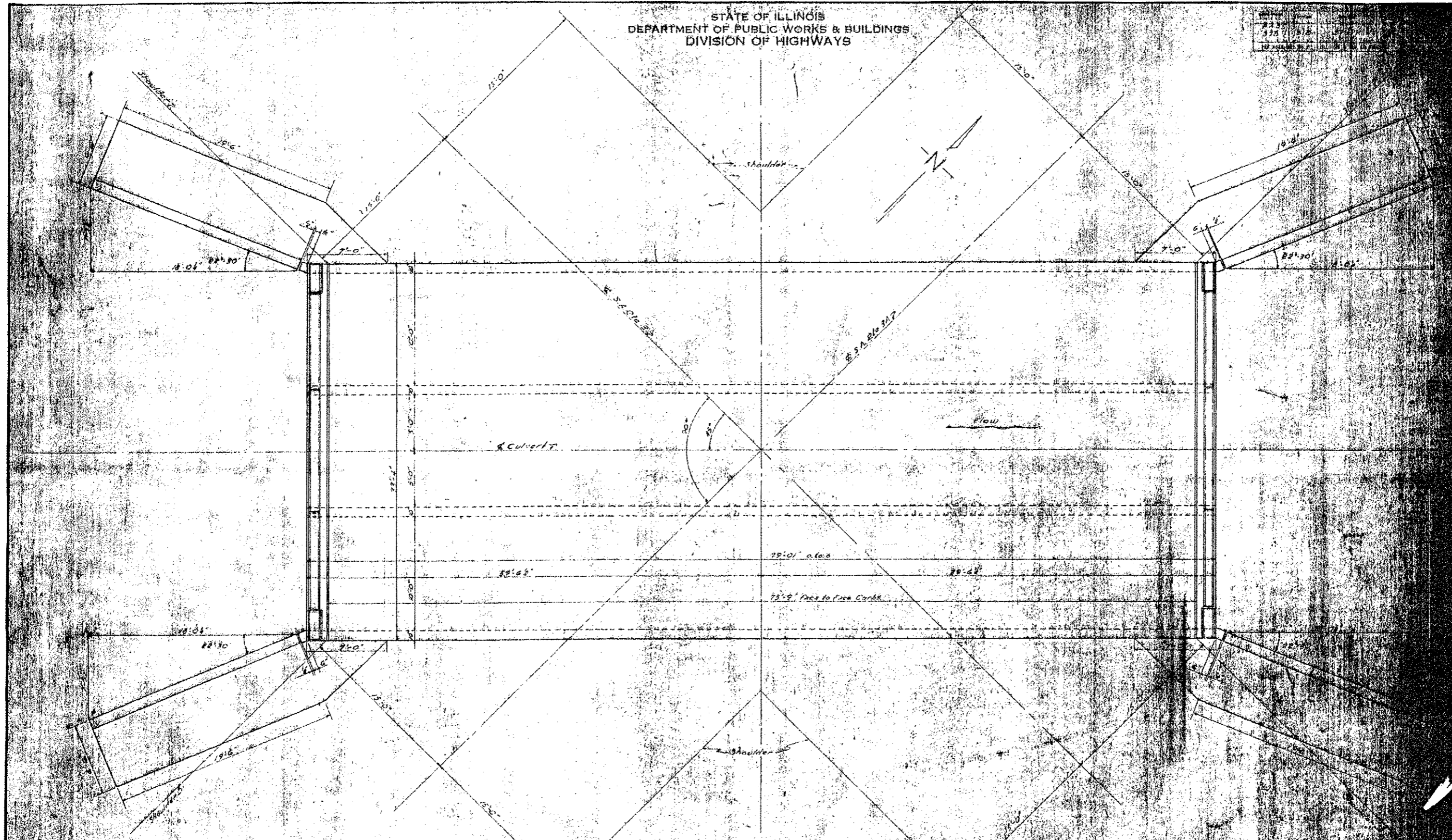
**BORING B-02**  
 Sta. 12+44 (6' L1.)



**BORING B-03**  
 Sta. 9+87 (6' Lt.)

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

DATE	BY
3/23/10	...
3/23/10	...
10/20/10	...

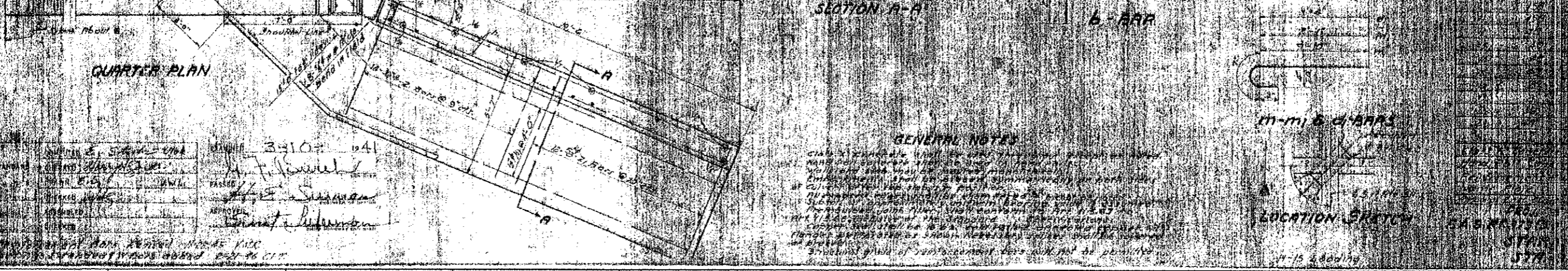
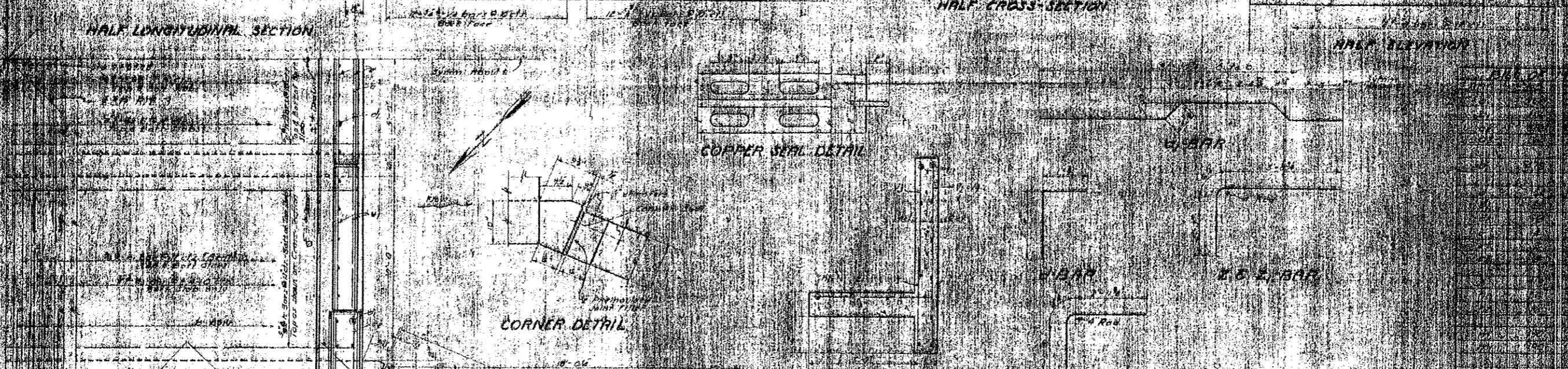
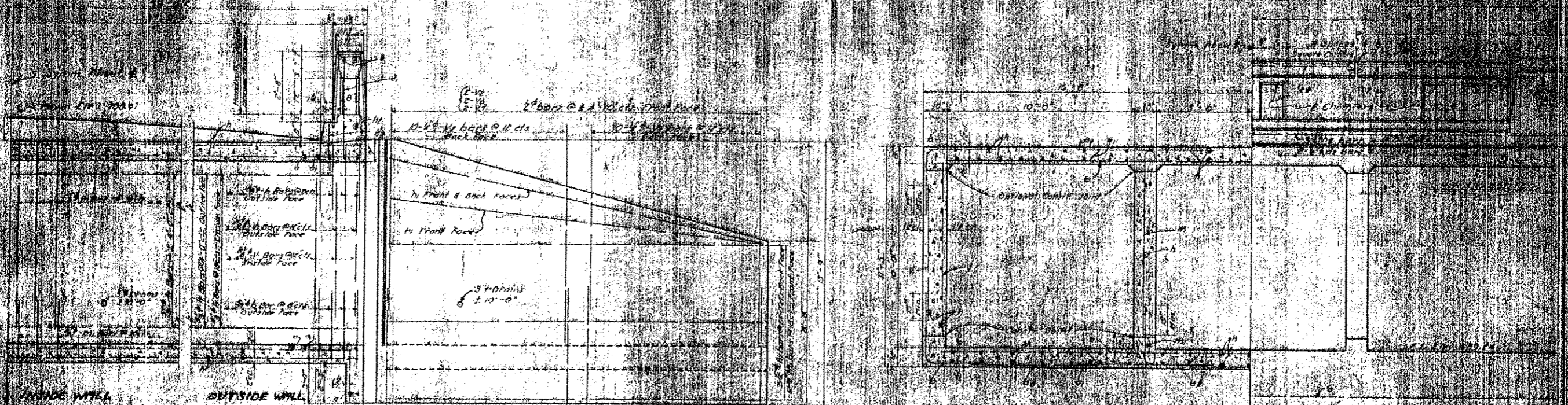


LAYOUT PLAN  
Scale 1/4" = 1'-0"  
For 20' x 20' Reinforcement  
See Sheet 7

DESIGNED	BY	DATE
CHECKED	BY	DATE
DRAWN	BY	DATE
CHECKED	BY	DATE
APPROVED	BY	DATE

3-10-10  
3-23-10  
3-23-10  
10-20-10

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS



FILE NAME * 100001-sh-culvert.dgn	USER NAME *	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
2030 STEVENSON DRIVE, SUITE 201		DRAWN - D.A.B.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
121 W. ILL. CENT. 100-2002			

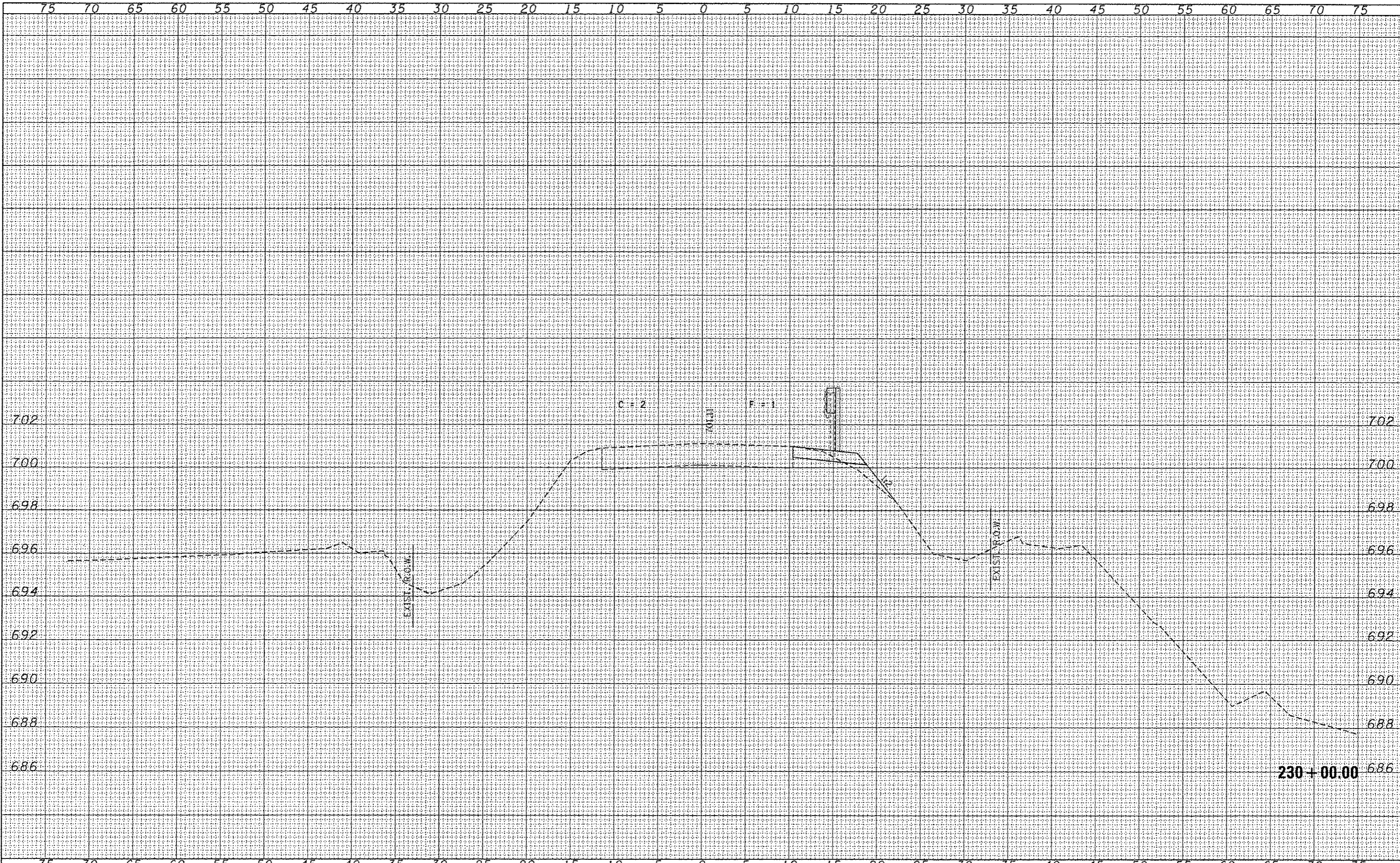
STATE OF ILLINOIS  
STARK COUNTY HIGHWAY DEPARTMENT

EXISTING STRUCTURE PLANS  
STRUCTURE NO. 088-3203

SHEET NO. 9 OF 9 SHEETS

C.M.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3	10-00163-00-BR	STARK	29	14
SOUTH VALLEY ROAD			CONTRACT NO. 89621	
ILLINOIS FED. AID PROJECT				





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

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

FILE NAME = 100001-shr-s.s.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 BIRMGHAMFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL ENGINEERING FIRM  
 LICENSE NO. 18178-5R CORP. 18-000859

USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 4/8/2013

DESIGNED - J.W.F.  
 DRAWN - D.A.B.  
 CHECKED - S.W.M.  
 DATE - 004/02/13

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

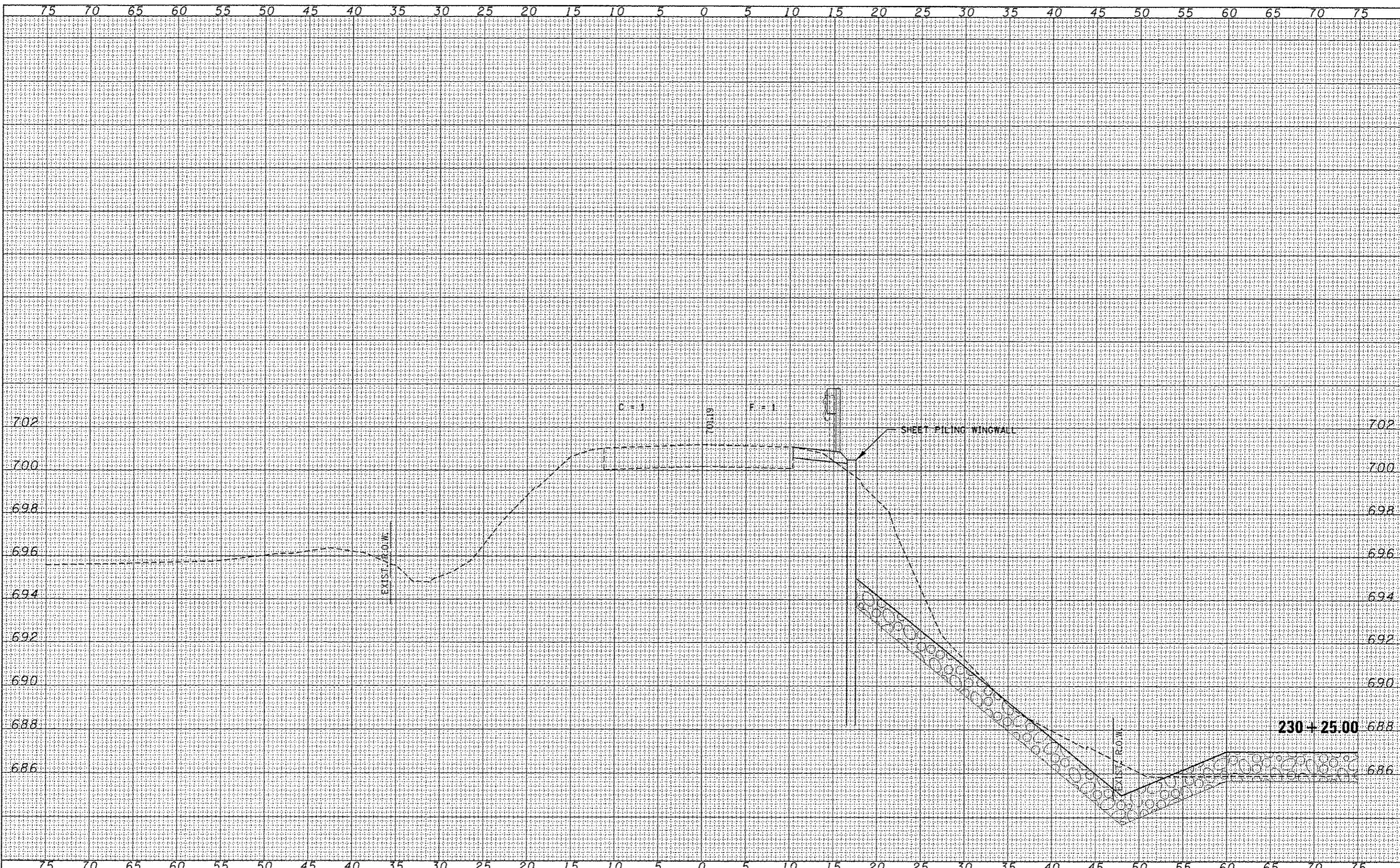
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: H5:V2  
 SHEET NO. OF SHEETS  
 STA. 230+00.00 TO STA. 230+00.00

STATION CROSS SECTIONS  
 F.A.S. 373 / C.H. 3 / SOUTH VALLEY ROAD

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	10-00163-00-BR	STARK	29	16
CONTRACT NO. 89621			ILLINOIS FED. AID PROJECT	





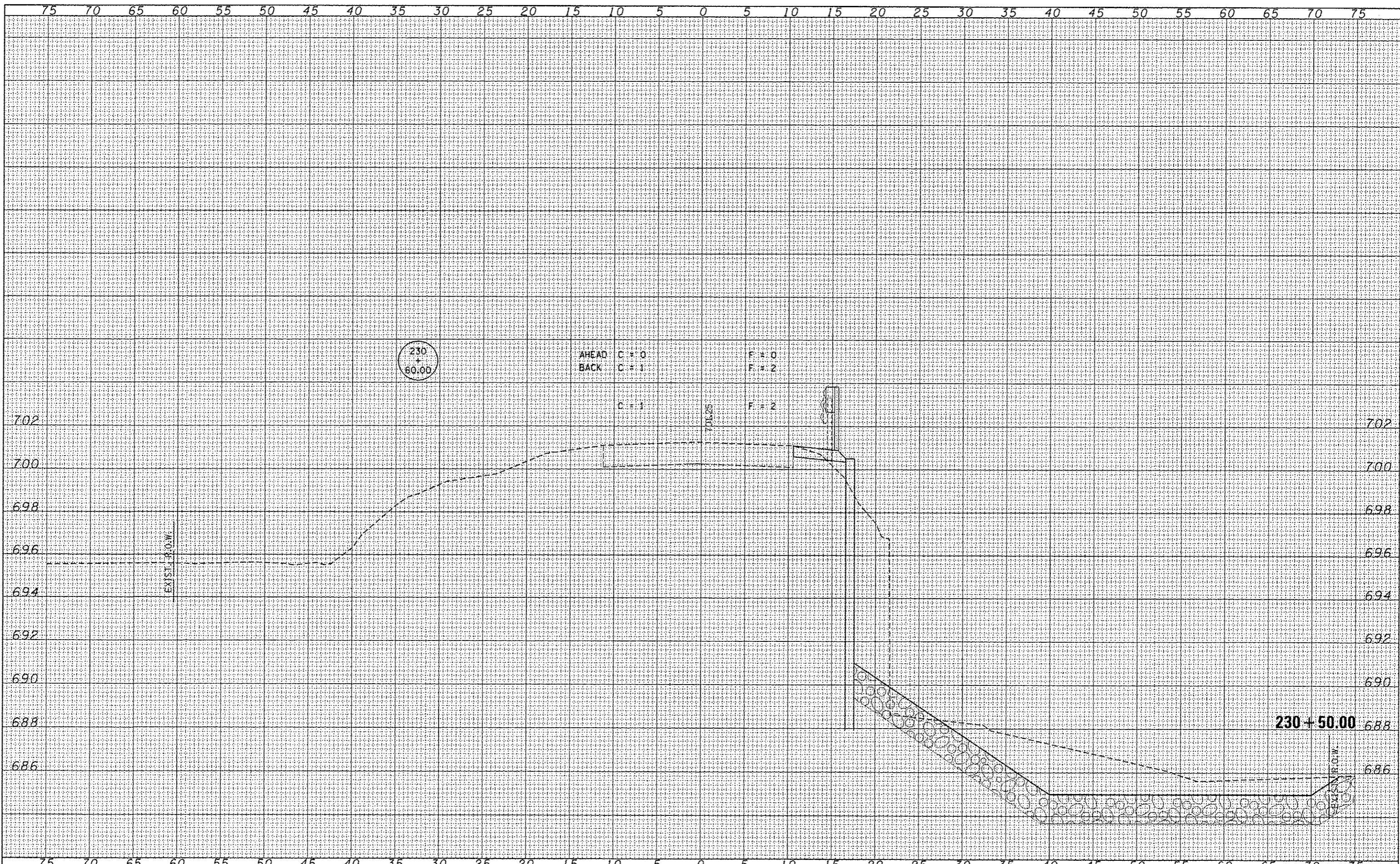
DATE	
BY	
APPROVED	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
AREAS CHECKED	

DATE	
BY	
APPROVED	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
AREAS CHECKED	

FILE NAME = 100001-sht-***.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 338 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM L01PE-58 CORP. 184.000952		DRAWN - D.A.B.	REVISED -	373	10-00163-00-BR	STARK	29	17
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	SCALE: H5:V2		SHEET NO. OF SHEETS		STA. 230+25.00 TO STA. 230+25.00
	PLOT DATE = 4/8/2013	DATE - 004/02/13	REVISED -			CONTRACT NO. 89621		[ILLINOIS] FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

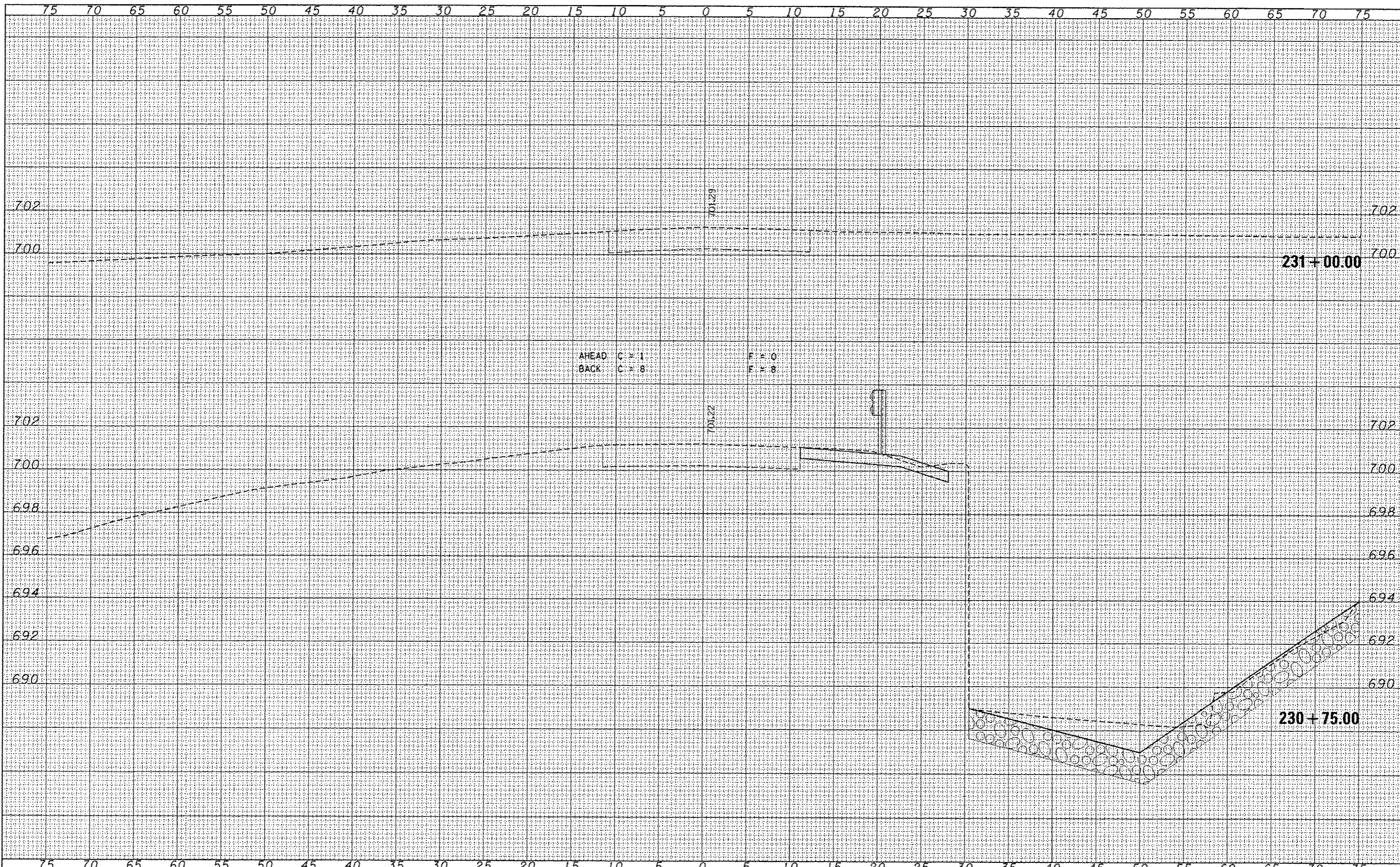
STATION CROSS SECTIONS  
F.A.S. 373 / C.H. 3 / SOUTH VALLEY ROAD



DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

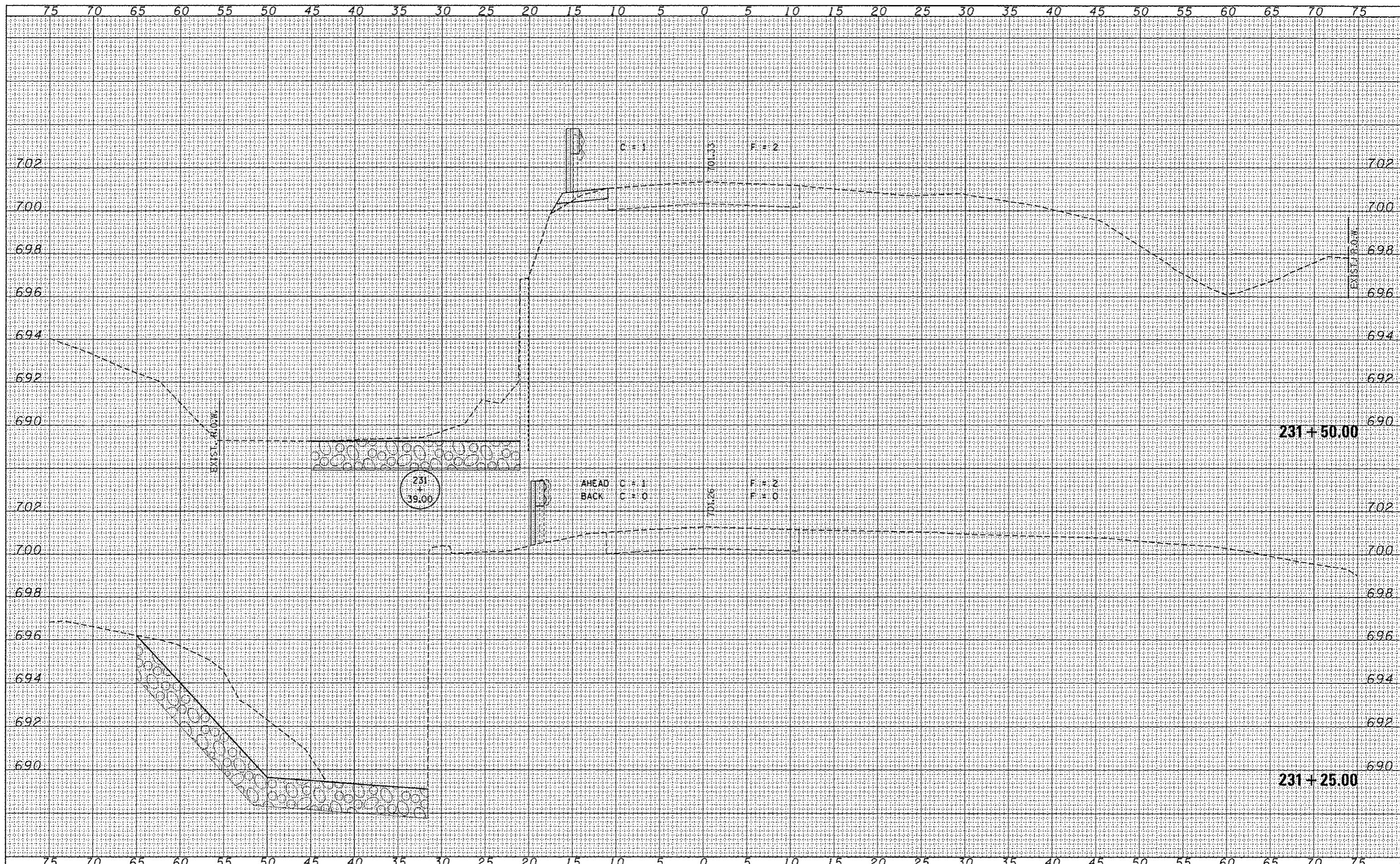
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.A.B.	REVISED -		373	10-00163-00-BR	STARK	29	18			
3335 STEUBEN DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE: H5:V2    SHEET NO. OF SHEETS    STA. 230+50.00 TO STA. 230+50.00			CONTRACT NO. 89621				
ILLINOIS PROFESSIONAL DESIGN FIRM L.P./P.E./S.E. CORP. 184.000992	PLOT DATE = 4/8/2013	DATE - 004/02/13	REVISED -		(ILLINOIS) FED. AID PROJECT							



DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

FILE NAME = 100601-sh1-a.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		STATION CROSS SECTIONS F.A.S. 373 / C.H. 3 / SOUTH VALLEY ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
HAMPTON, LENZINI AND RENWICK, INC. 3005 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62702 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / P.E. / C.E. CORP. 184.000952		DRAWN - D.A.B.	REVISED -			SCALE: H5:V2 SHEET NO. OF SHEETS STA. 230+75.00 TO STA. 231+00.00		373	10-00163-00-BR	STARK	29	19		
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -											
	PLOT DATE = 4/9/2013	DATE - 004/02/13	REVISED -					ILLINOIS FED. AID PROJECT CONTRACT NO. 89621						



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

FILE NAME = 100001-sh1-a.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62709  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LICENSE NO. 184-000952

USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 4/8/2013

DESIGNED - J.W.F.  
 DRAWN - D.A.B.  
 CHECKED - S.W.M.  
 DATE - 004/02/13

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

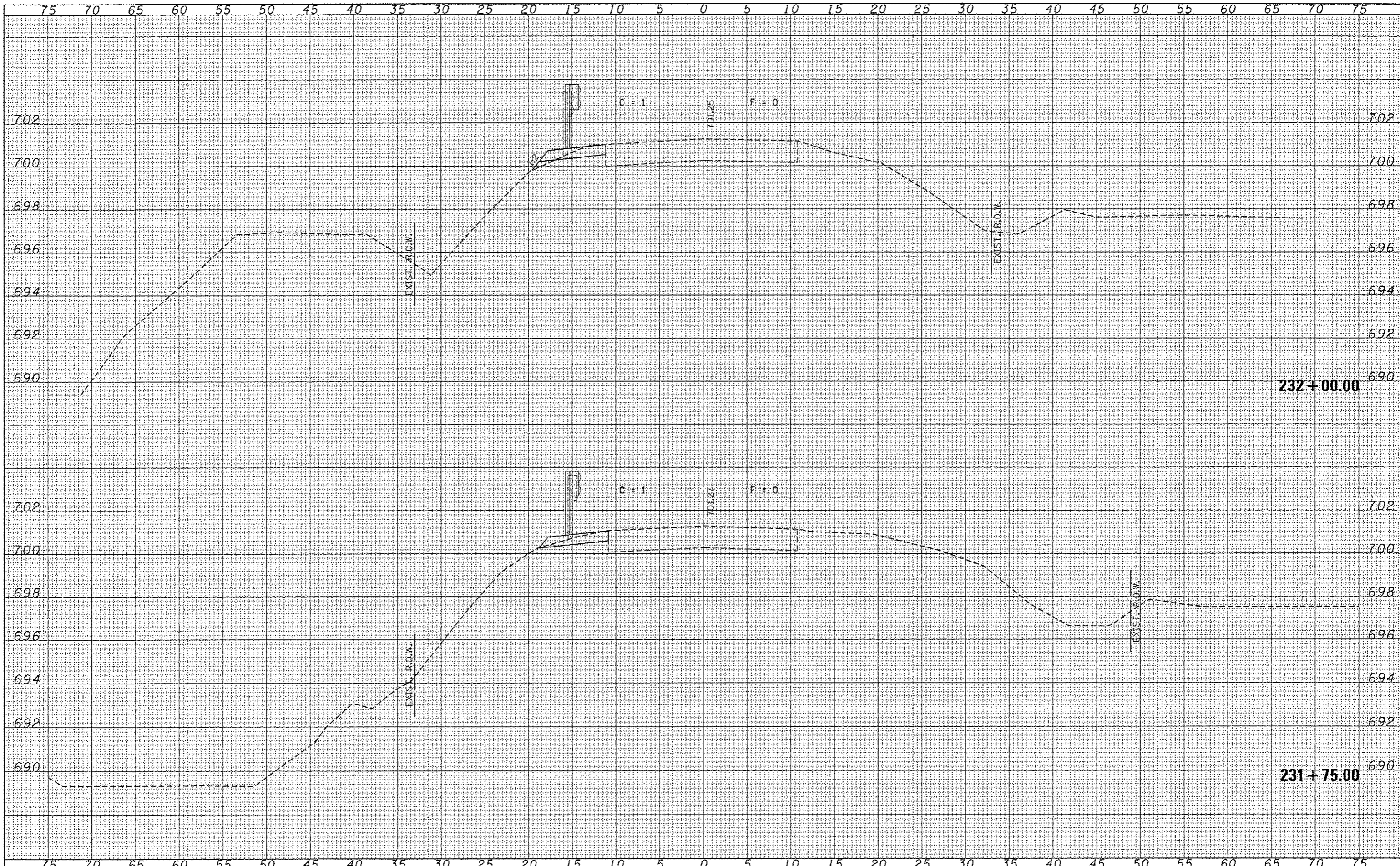
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS  
 F.A.S. 373 / C.H. 3 / SOUTH VALLEY ROAD  
 SCALE: H5:V2  
 SHEET NO. OF SHEETS STA. 231+25.00 TO STA. 231+50.00

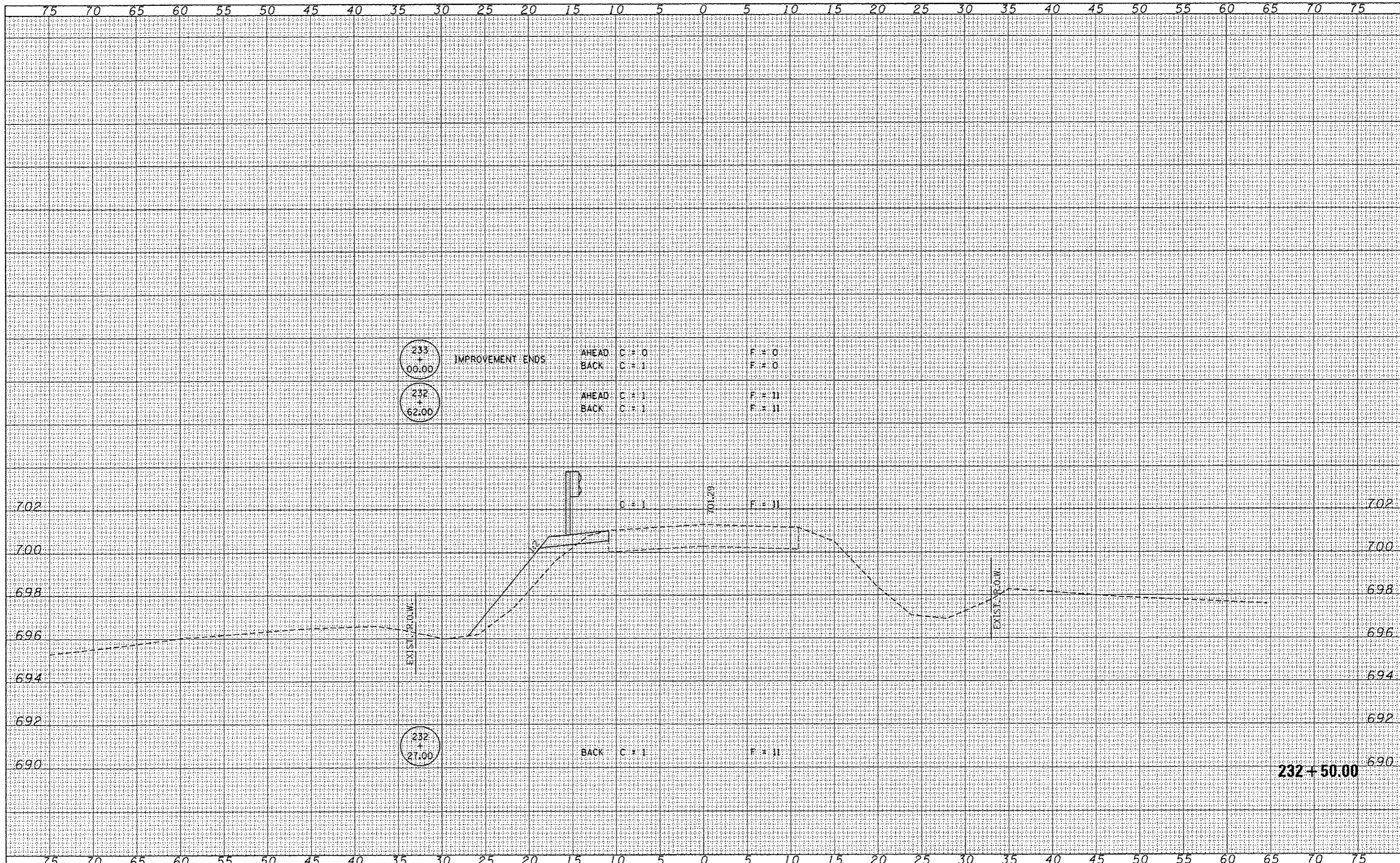
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	10-00163-00-BR	STARK	29	20
CONTRACT NO. 89621				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISIONS	
NO.	
DATE	
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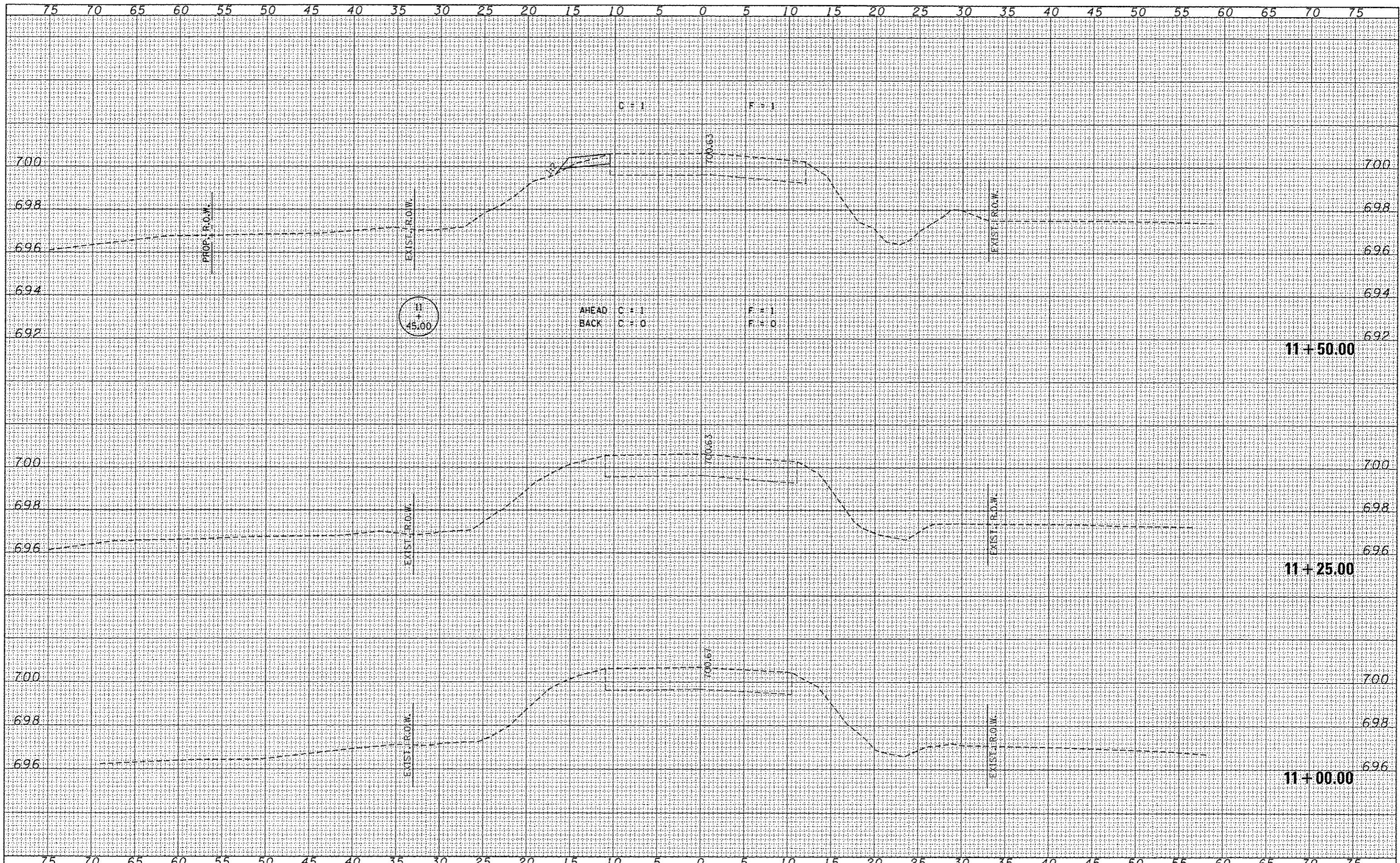
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HAMPTON, LENZINI AND RENWICK, INC. 3345 STEPHENSON DRIVE, SUITE 301 SPRINGFIELD, ILLINOIS 62704		DRAWN - D.A.B.	REVISIONS		373	10-00163-00-BR	STARK	29	21		
ELR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE COMP. 184.000993	PLOT SCALE *	CHECKED - S.W.M.	REVISIONS	SCALE: H5:V2		SHEET NO. OF SHEETS		CONTRACT NO. 89621			
	PLOT DATE * 4/8/2013	DATE - 004/02/13	REVISIONS	STA. 231+75.00 TO STA. 232+00.00		ILLINOIS FED. AID PROJECT					



DATE	
BY	
FINAL SURVEY	
DATE	
NO. OF SHEETS	
DATE	
NO. OF SHEETS	
DATE	
NO. OF SHEETS	

DATE	
BY	
ORIGINAL SURVEY	
DATE	
NO. OF SHEETS	
DATE	
NO. OF SHEETS	
DATE	
NO. OF SHEETS	

FILE NAME = 100001-sh1-a-a.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STATION CROSS SECTIONS F.A.S. 373 / C.H. 3 / SOUTH VALLEY ROAD				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 333 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62769	PLOT SCALE =	DRAWN - D.A.B.	REVISED -		373	10-00163-00-BR	STARK	29	22				
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		DATE - 004/02/13	REVISED -										



BY	DATE
SURVEYED	
PLOTTED	
REVISIONS	
NOTE BOOK	
AREAS CHECKED	

BY	DATE
SURVEYED	
PLOTTED	
REVISIONS	
NOTE BOOK	
AREAS CHECKED	

FILE NAME = 100001-shr-1.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3545 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62708  
 ILLINOIS PROFESSIONAL DESIGNER FIRM  
 LICENSE NO. 144-000369

USER NAME \*  
 DESIGNED - J.W.F.  
 DRAWN - D.A.B.  
 CHECKED - S.W.M.  
 DATE - 004/02/13  
 FLOT SCALE \*  
 FLOT DATE \* 4/8/2013

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

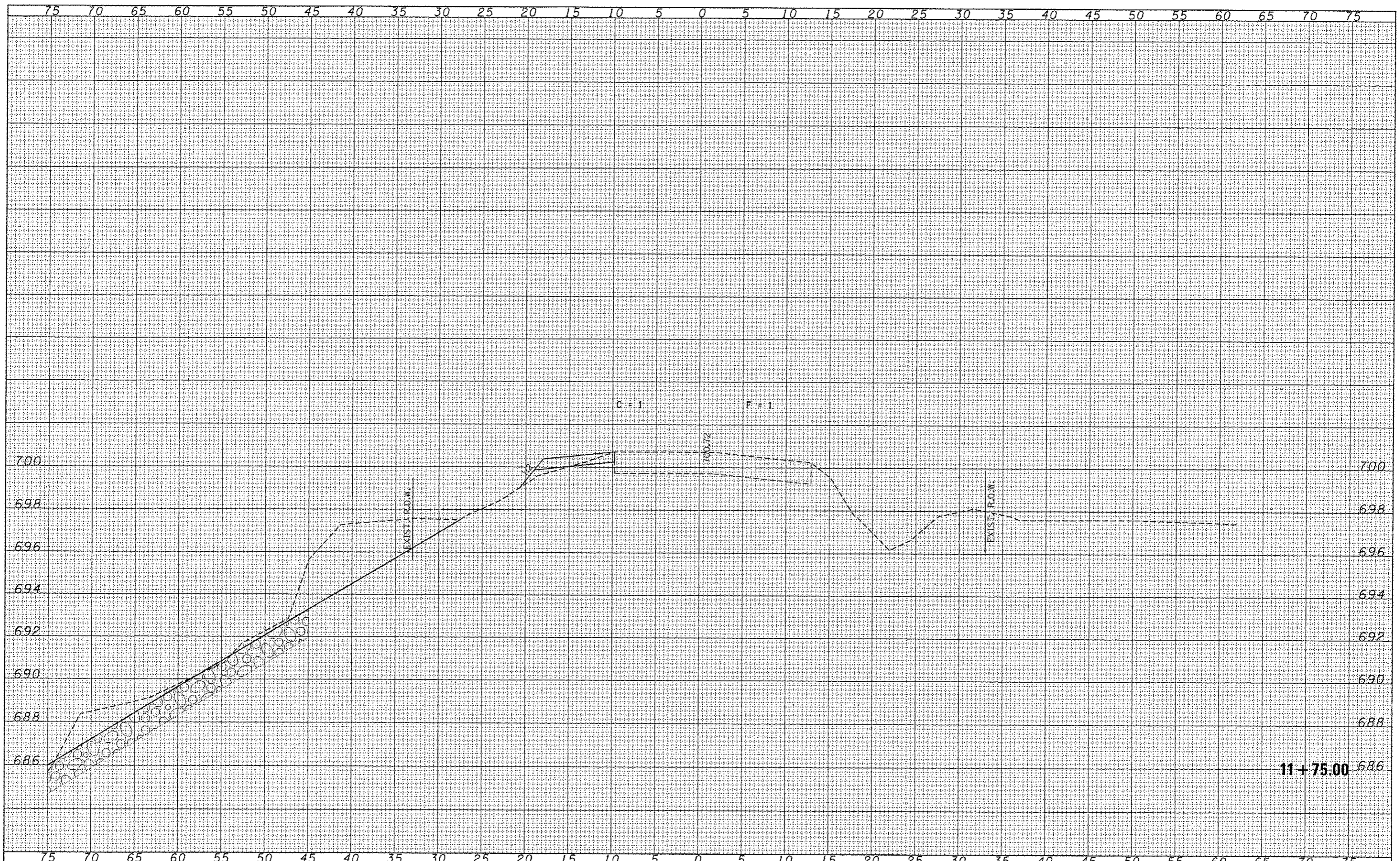
SCALE: H5:V2  
 SHEET NO. OF SHEETS  
 STA. 11+00.00 TO STA. 11+50.00

STATION CROSS SECTIONS  
 C.H. 17 / HOLMES ROAD

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	10-00163-00-BR	STARK	29	23
				CONTRACT NO. 89621
ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISIONS	
1. DATE	
2. BY	
3. DESCRIPTION	
4. DATE	
5. BY	
6. DESCRIPTION	
7. DATE	
8. BY	
9. DESCRIPTION	
10. DATE	
11. BY	
12. DESCRIPTION	
13. DATE	
14. BY	
15. DESCRIPTION	

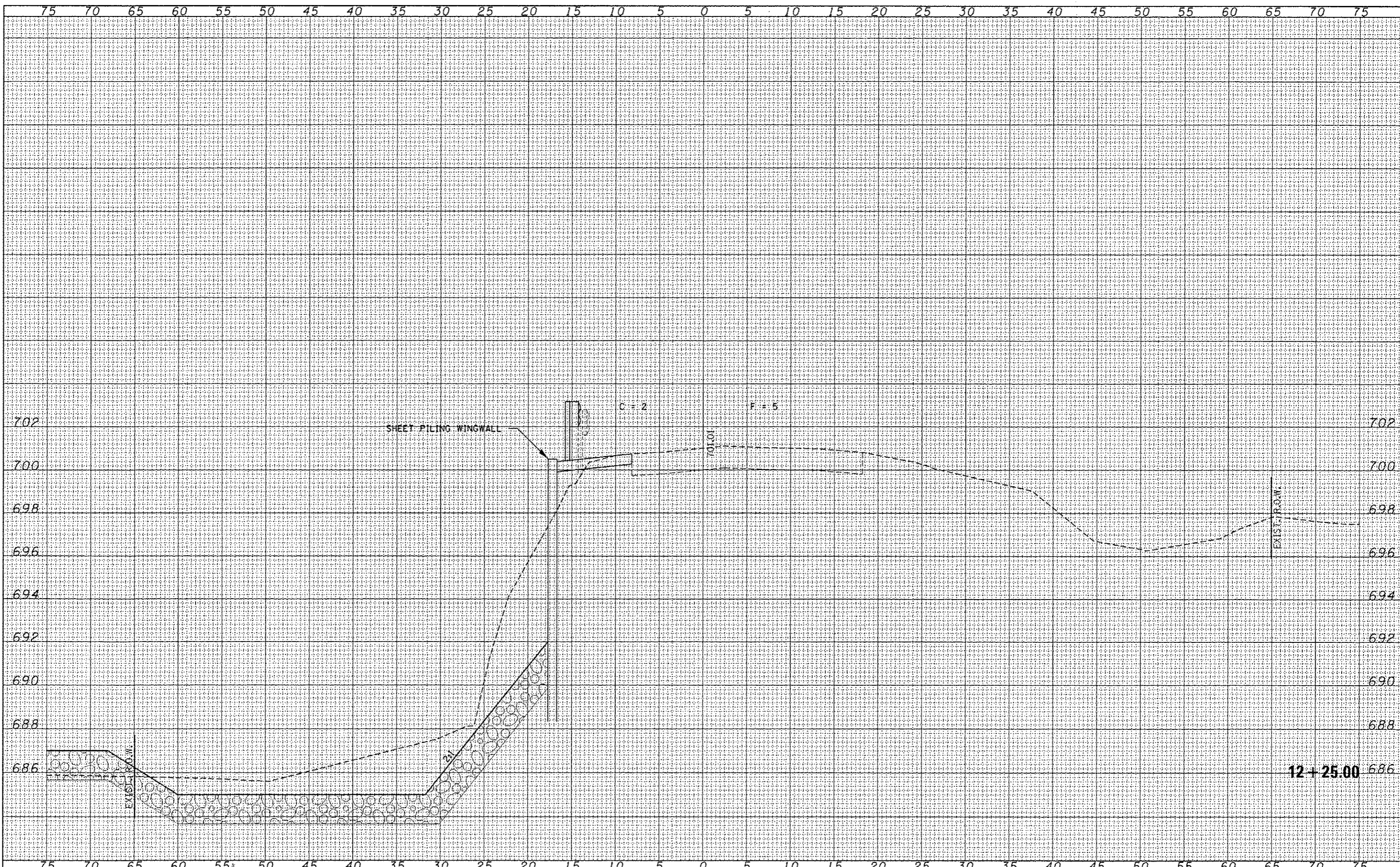
DATE	
BY	
REVISIONS	
1. DATE	
2. BY	
3. DESCRIPTION	
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6. DESCRIPTION	
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8. BY	
9. DESCRIPTION	
10. DATE	
11. BY	
12. DESCRIPTION	
13. DATE	
14. BY	
15. DESCRIPTION	



FILE NAME = 100001-shc-a-s.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STATION CROSS SECTIONS C.H. 17 / HOLMES ROAD</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b>		DRAWN - D.A.B.	REVISED -		373	10-00163-00-BR	STARK	29	24			
3800 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	FLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE: H5:V2			SHEET NO. OF SHEETS STA. 11+75.00 TO STA. 11+75.00			CONTRACT NO. 89621	
<b>ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184,000958</b>	FLOT DATE = 4/8/2013	DATE - 004/02/13	REVISED -		ILLINOIS FED. AID PROJECT							





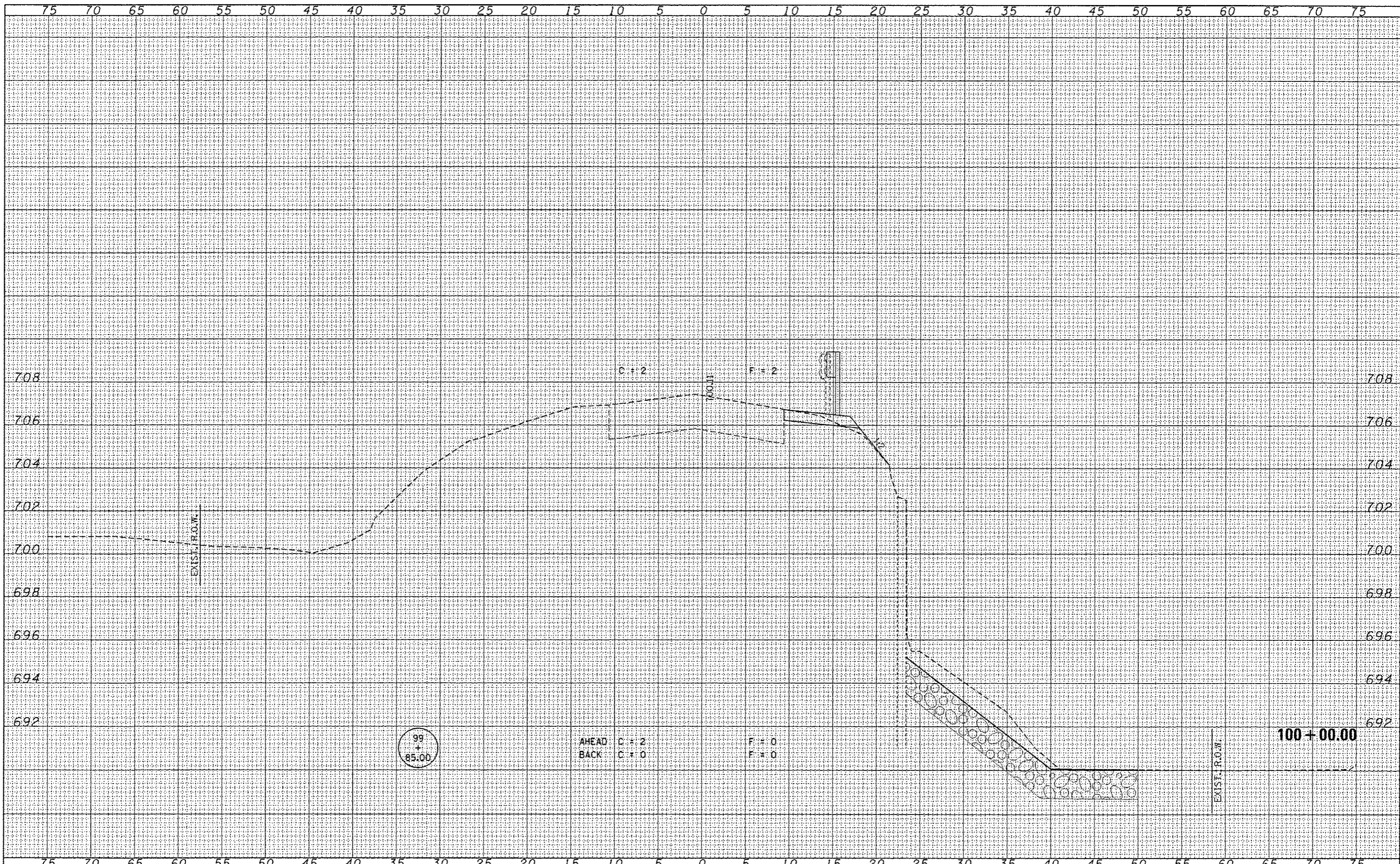


DATE	
BY	
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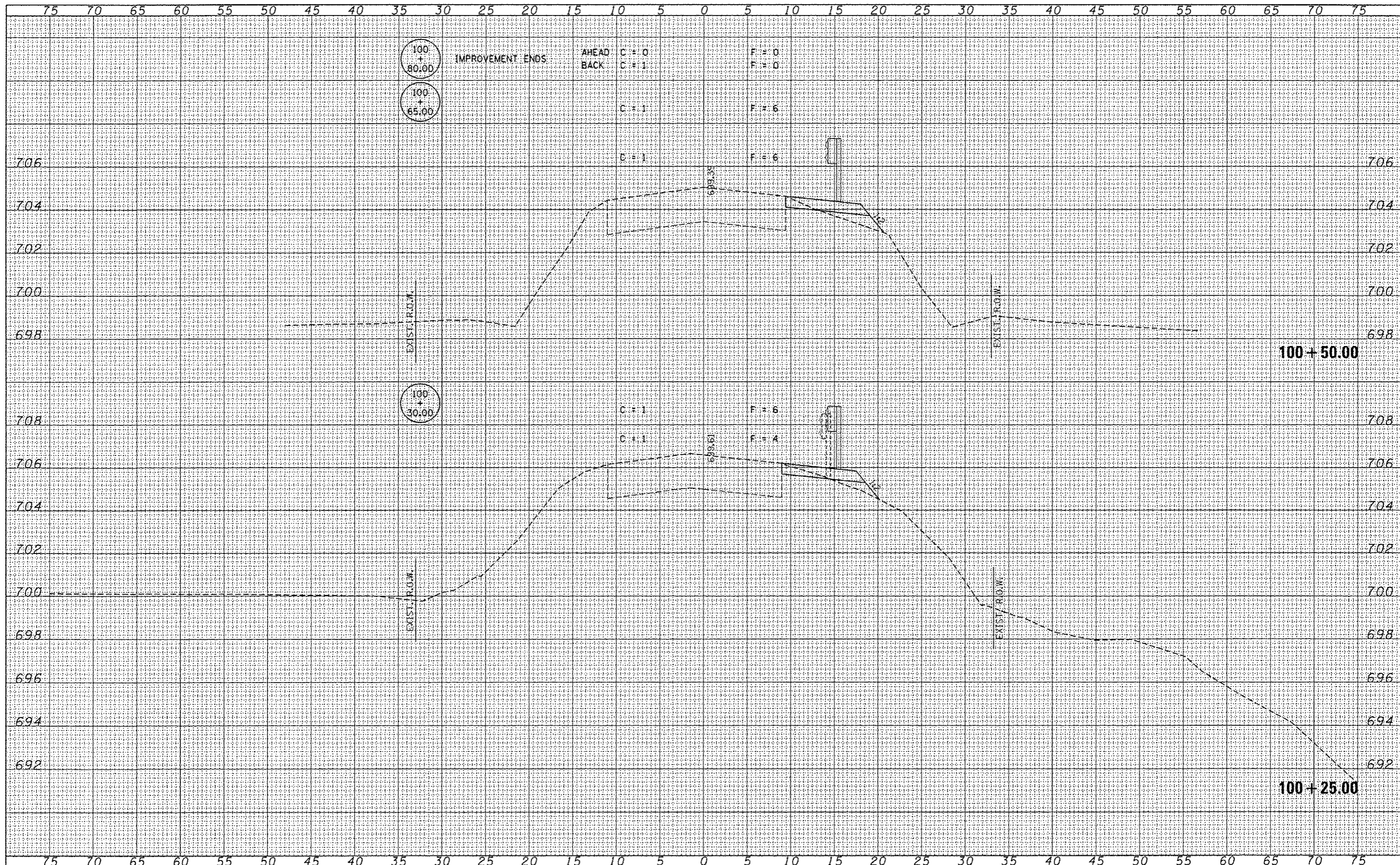
FILE NAME = 100001-sha-xxx.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>STATION CROSS SECTIONS</b> <b>C.H. 17 / HOLMES ROAD</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.A.B.	REVISED -		373	10-00163-00-BR	STARK	29	26	CONTRACT NO. 89621		
3390 STEVENSON DRIVE, SUITE 301 SPRINGFIELD, ILLINOIS 62761		CHECKED - S.W.M.	REVISED -		SCALE: H5:V2	SHEET NO. OF SHEETS	STA. 12+25.00 TO STA. 12+25.00	ILLINOIS FED. AID PROJECT				
ILLINOIS PROFESSIONAL DESIGN FIRM L.P. # 017562000 (04/00/2013)		DATE - 004/02/13	REVISED -									





DATE	
BY	
FINISHED SURVEY	
NOTED SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
DESIGNED SURVEY	
NOTED SURVEY	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	