

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1351	17-00138-00-BR	FORD	27	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO.	87740	

**INDEX OF SHEETS**

04-23-2021 LETTING ITEM 089

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4.	SCHEDULE OF QUANTITIES
5.	PLAN AND PROFILE
6-7.	GUARDRAIL & SHOULDER LAYOUT
8-15.	BRIDGE PLANS
16-17.	BORINGS
18-27.	STATION CROSS SECTIONS

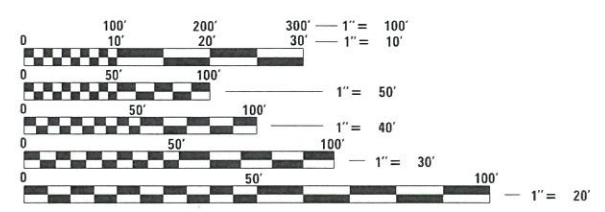
**HIGHWAY STANDARDS:**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTIONS FOR PIPE CULVERTS
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

**UTILITIES**

FRONTIER COMMUNICATIONS  
109 E. MARKET STREET, 2ND FLOOR  
BLOOMINGTON, IL 61701

EASTERN ILLINI ELECTRIC  
ENGINEERING DEPARTMENT  
330 W. OTTAWA, PO BOX 96  
PAXTON, IL 60957



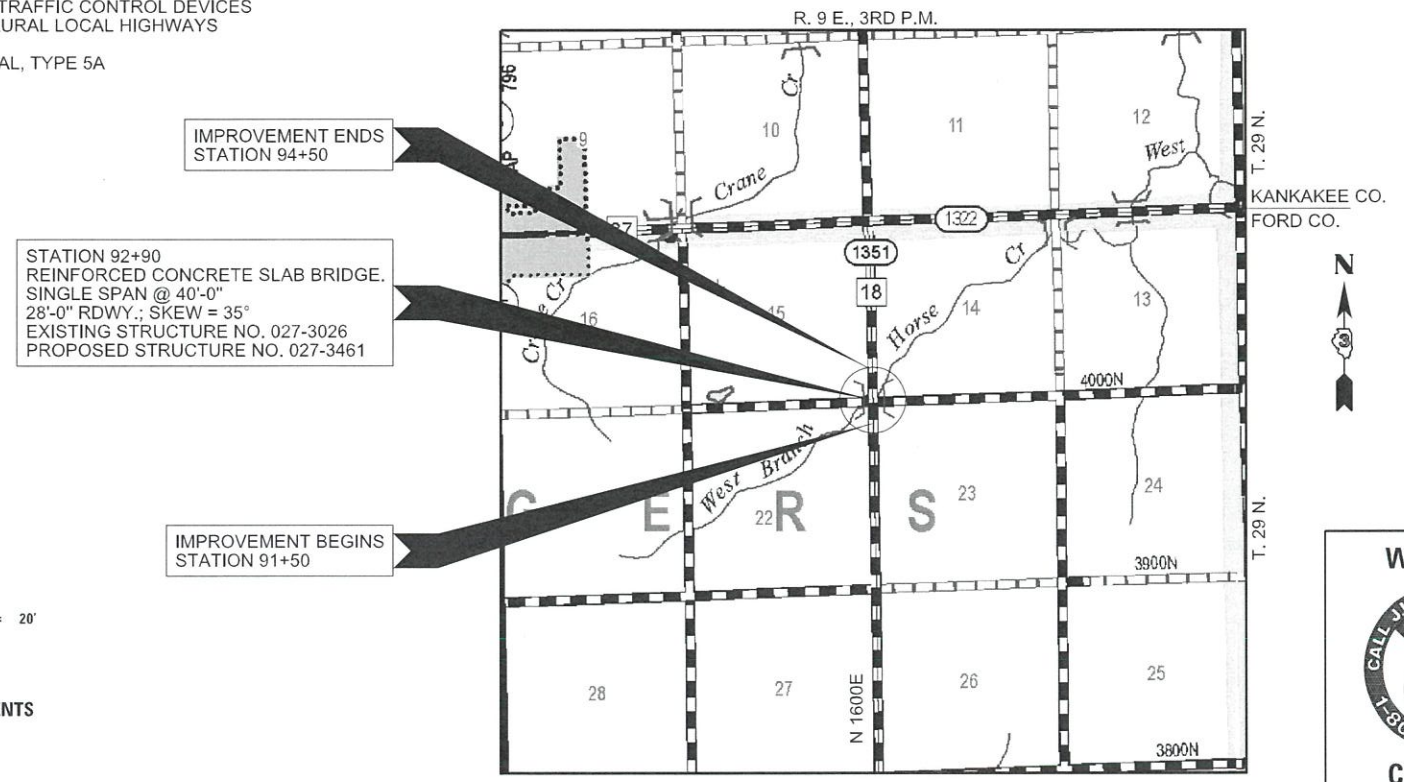
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (RURAL)  
DESIGN SPEED: 50 MPH  
DESIGN TRAFFIC: 450 ADT (2016)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED  
SURFACE TRANSPORTATION PROGRAM  
ON SYSTEM BRIDGE**

SECTION 17-00138-00-BR  
FORD COUNTY  
F.A.S. 1351 / C.H. 18 / BUCKINGHAM ROAD  
PROPOSED STRUCTURE NO. 027-3461  
JOB C-93-096-97  
PROJECT REN8(721)



**LOCATION MAP**

APPROXIMATE SCALE: 1" = 1/2 MILE  
NET LENGTH OF SECTION = 425 FEET = 0.080 MILES

**WARNING**

CALL 811  
BEFORE YOU DIG  
DIG NO: A0120158 /  
A0120153

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

APPROVED January 22, 2021  
*[Signature]*  
COUNTY ENGINEER

PASSED February 18, 2021  
*[Signature]*  
DISTRICT THREE ENGINEER OF  
LOCAL ROADS & STREETS  
Releasing For Bid Based on Limited Review  
February 18, 2021  
*[Signature]*  
REGION TWO ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE: 01/21/2021

**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

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	415
20300100	CHANNEL EXCAVATION	CU YD	55
20700110	POROUS GRANULAR EMBANKMENT	TON	92
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	247
31101200	SUBBASE GRANULAR MATERIAL, TYPE B, 4"	SQ YD	389
35101400	AGGREGATE BASE COURSE, TYPE B	TON	685
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,478
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	135
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	118
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	71
48203013	HOT-MIX ASPHALT SHOULDERS, 4"	SQ YD	389
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	145
50300225	CONCRETE STRUCTURES	CU YD	32.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	79.8
50300260	BRIDGE DECK GROOVING	SQ YD	136
50300300	PROTECTIVE COAT	SQ YD	175
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	33,930
* 50900205	STEEL RAILING, TYPE S1	FOOT	87
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	360
51202305	DRIVING PILES	FOOT	360
51203200	TEST PILE METAL SHELLS	EACH	1
51500100	NAME PLATES	EACH	1
54262730	METAL FLARED END SECTIONS 30"	EACH	2
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	30
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	10
542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	64
542D5515	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 60"	FOOT	50
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	1
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2

^ SEE SPECIAL PROVISIONS

\* SPECIALTY ITEMS

**SUMMARY OF QUANTITIES**

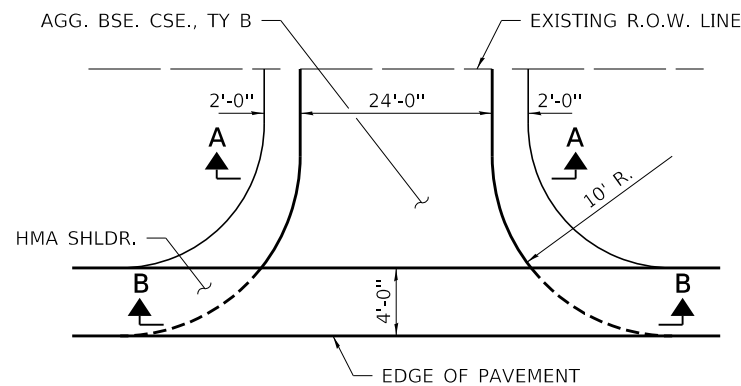
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL QUANTITY
63200310	GUARDRAIL REMOVAL	FOOT	290
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25
* ^ X6311205	TRAFFIC BARRIER TERMINAL, TYPE 5A (SPECIAL)	EACH	1
* ^ X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	65

^ SEE SPECIAL PROVISIONS

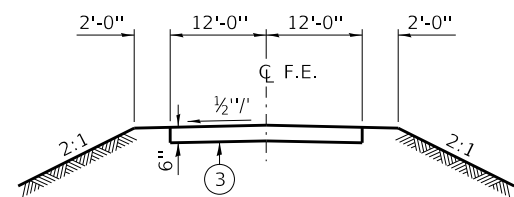
\* SPECIALTY ITEMS

**GENERAL NOTES**

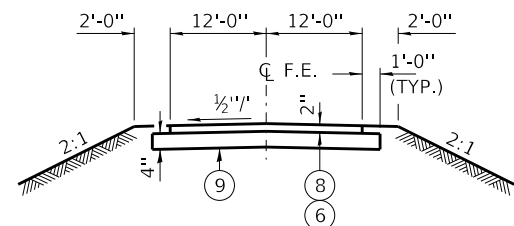
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE 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.
- 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.
- THE CONTRACTOR SHALL CONSULT THE ENGINEER IN REGARD TO THE EXACT LENGTH OF PIPE CULVERTS AND PIPE DRAINS BEFORE ORDERING THESE ITEMS.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- PIPE DRAINS AND PIPE CULVERTS SHALL BE PRECOATED IN ACCORDANCE WITH ARTICLE 1006.01(b) OF THE STANDARD SPECIFICATIONS.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.  
 AGGREGATE SURFACE & BASE COURSE, SHOULD 2.05 TON/CU YD  
 HOT-MIX ASPHALT 112 LBS/SQ YD/INCH THICKNESS  
 BITUMINOUS MATERIALS (PRIME COAT) 0.25 POUNDS/SQ YD  
 BITUMINOUS MATERIALS (TACK COAT) 0.025 POUNDS/SQ YD  
 STONE DUMPED RIPRAP 1.75 TON/CU YD  
 TEMPORARY EROSION CONTROL SEEDING 100 LBS / ACRE  
 POROUS GRANULAR EMBANKMENT 1.5 TON/CU YD
- EARTH SURFACES SHALL BE SEEDED WITHIN 14 DAYS OF THE END OF ACTIVE DISTURBANCE. THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. ESTIMATED AREAS OF SEEDING:  
 SEEDING, CLASS 2 (SPECIAL) 0.25 ACRES
- THE CONTRACTOR HAS THE OPTION OF USING A VIBRATING SCREEN IN LIEU OF A FINISHING MACHINE FOR THE CONCRETE SUPERSTRUCTURE, AT THE APPROVAL OF THE ENGINEER.
- COMMITMENTS:  
 1) NONE



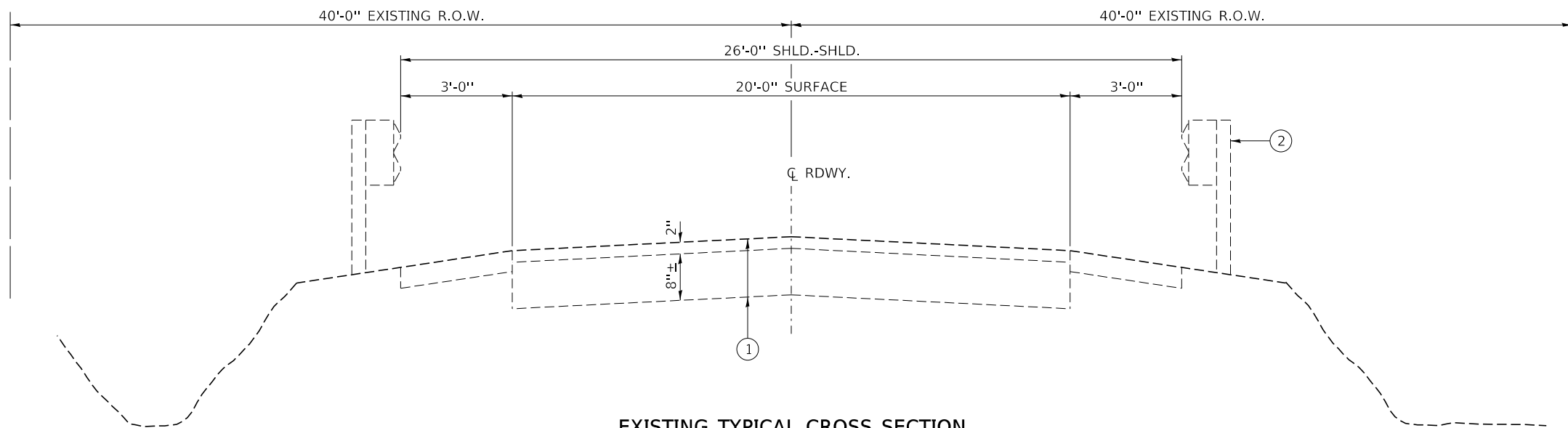
**FIELD ENTRANCE DETAIL**  
STA. 13+90



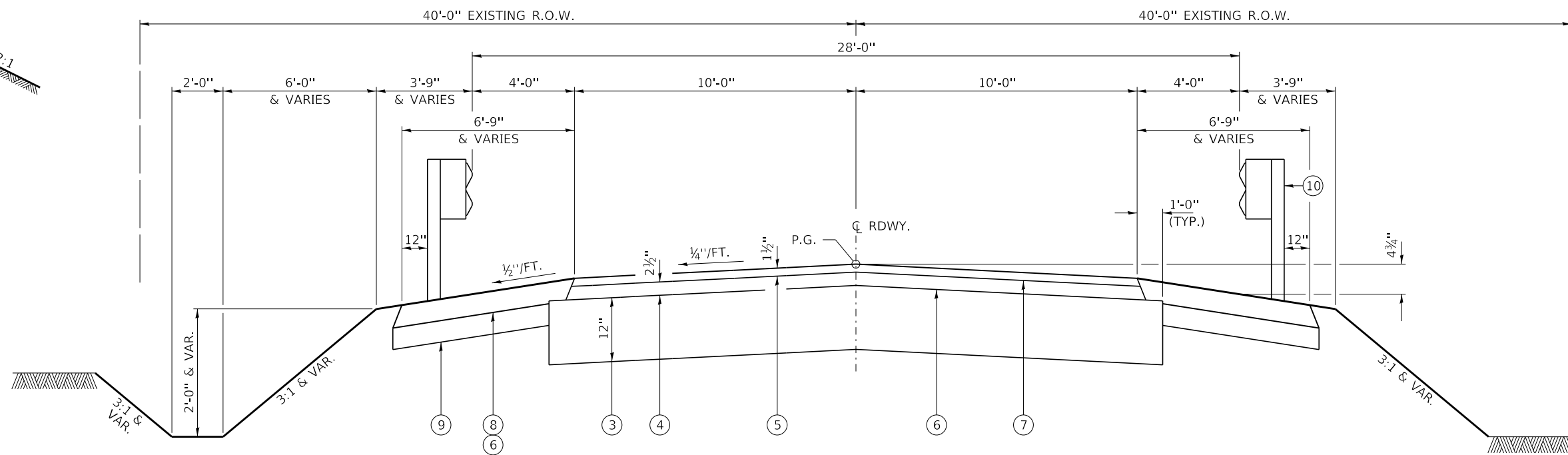
**SECTION A-A**



**SECTION B-B**



**EXISTING TYPICAL CROSS SECTION**  
STA. 91+50 TO 91+75



**PROPOSED TYPICAL CROSS SECTION**  
STA. 94+25 TO 94+50

SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

SUGGESTED FILL SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

TRANSITIONS FROM THE PROPOSED SHOULDER TO THE EXISTING SHOULDER ARE TO BE CONSTRUCTED FROM STA. 91+50 TO 91+75 AND STA. 94+25 TO 94+50. SEE SHEET 19 FOR TRANSITION AT BRIDGE.

**LEGEND**

- ① EXISTING 2" HMA PAVEMENT ON 8" AGGREGATE BASE, AGGREGATE SHOULDER
- ② EXISTING STEEL PLATE BEAM GUARDRAIL
- ③ AGGREGATE BASE COURSE, TY B
- ④ HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50 (THICKNESS 2 1/2")
- ⑤ HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50 (THICKNESS 1 1/2")
- ⑥ BITUMINOUS MATERIALS (PRIME COAT)
- ⑦ BITUMINOUS MATERIALS (TACK COAT)
- ⑧ HOT-MIX ASPHALT SHOULDERS, 4"
- ⑨ SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- ⑩ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

PROPOSED ALIGNMENT		
	NORTHING	EASTING
P.O.T. STATION 38+00	1566301.008	1029463.684
P.I. STATION 88+45.71	1571346.302	1029399.004
P.I. STATION 92+21.66	1571722.23	1029394.738
P.O.T. STATION 97+45.66	1572246.17	1029386.721

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
LOCATIONS(S)	CH 18 / FAS 1351	CH 18 / FAS 1351	CH 18 / FAS 1351
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE	HMA SHOULDERS (TOP LIFT)
PG:	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ 50 Gyr.	4% @ 50 Gyr.	4% @ Ndes 50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE:	MIXTURE C	NONE	NONE
DENSITY TEST METHOD	CORES	CORES	MIXTURE C
MIXTURE WEIGHT:	112 LBS \ SY \ INCH	112 LBS \ SY \ INCH	112 LBS \ SY \ INCH
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
<b>C.H. 18/BUCKINGHAM ROAD</b>							
STA. 91+50.00 TO STA. 92+68.17	218		25.00%	100.00%	163	22	141
STA. 92+68.17 TO STA. 93+11.83		55	25.00%	70.00%	29		29
STA. 93+11.83 TO STA. 94+50.00	197		25.00%	100.00%	148	93	55
TOTAL	415	55			340	115	225
USE	415	55					225

WASTE EXCAVATION 225 CU YDS

ROADWAY SCHEDULE							
LOCATION	AGGREGATE BASE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	SUB-BASE GRANULAR MATERIAL, TY C B"	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	HOT MIX ASPHALT-SHOULDERS, 4"
	35101400	40600275	40600290	31101200	40603080	40604050	48203013
<b>C.H. 18/BUCKINGHAM ROAD</b>	TON	POUND	POUND	SQ YD	TON	TON	SQ YD
STA. 91+50.00 TO STA. 92+68.17	344	678	62	184	53	32	184
STA. 93+11.83 TO STA. 94+50.00	341	800	73	205	66	39	205
TOTAL	685	1478	135	389	118	71	389
USE	685	1478	135	389	118	71	389

FILE NAME = 190774-sht-schedule.dgn	USER NAME = rmosck	DESIGNED - S.W.M.	REVISED -
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - R.D.H.	REVISED -
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	PLOT DATE = 1/22/2021	DATE - 01/21/2021	REVISED -

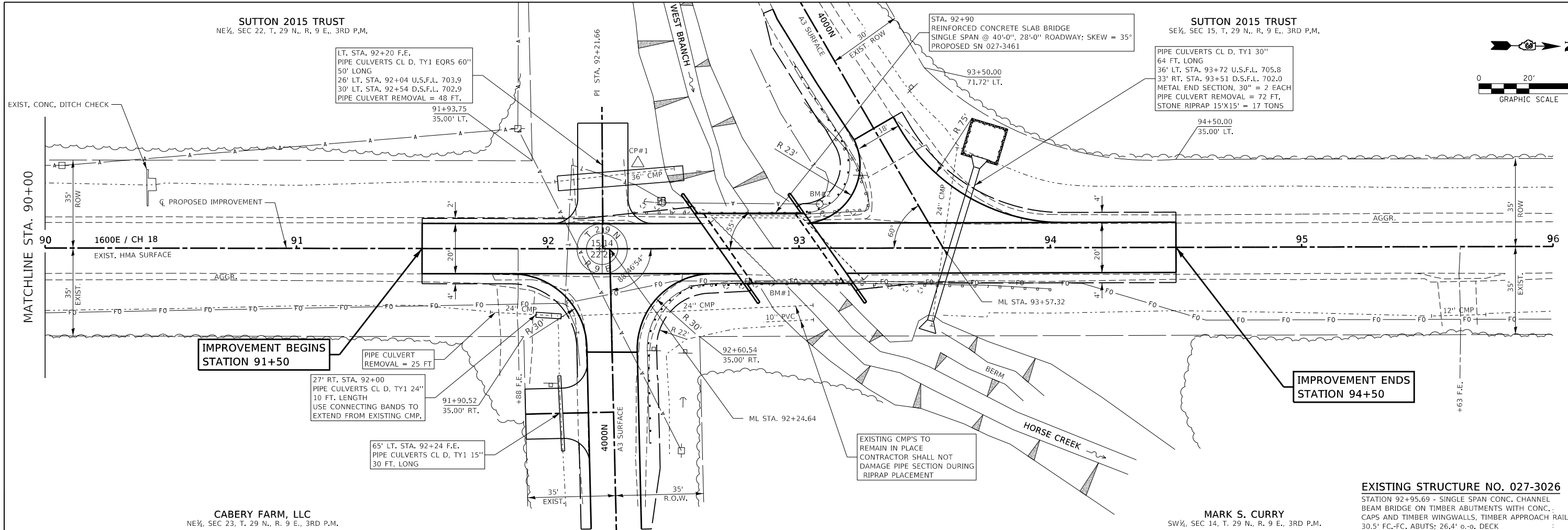
STATE OF ILLINOIS  
FORD COUNTY HIGHWAY DEPARTMENT

SCHEDULE OF QUANTITIES

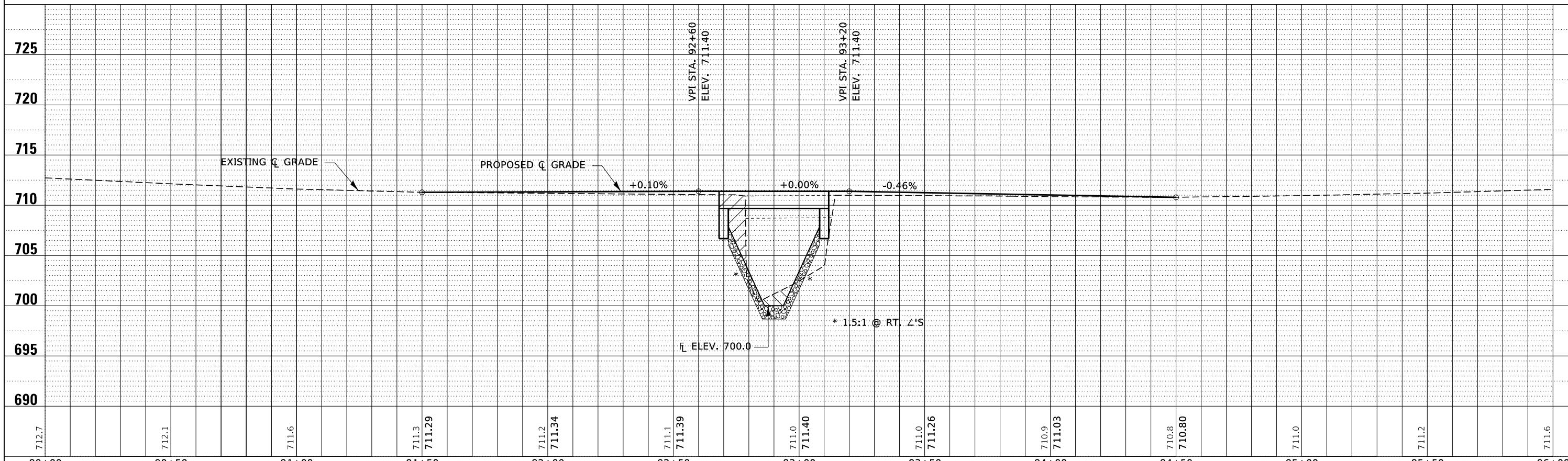
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1351	17-00138-00-BR	FORD	27	4
CONTRACT NO. 87740				
ILLINOIS FED. AID PROJECT RENR(721)				

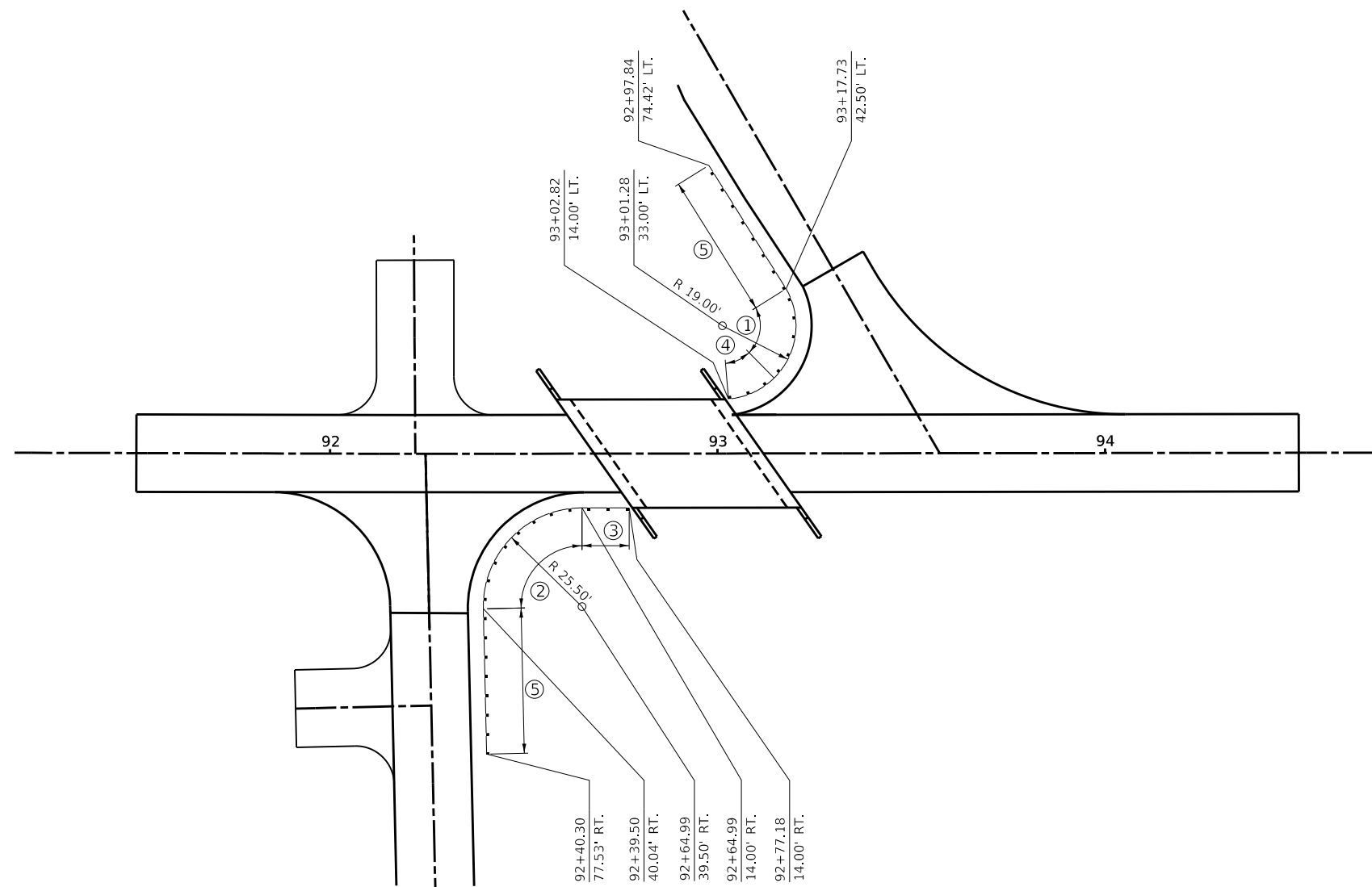
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GRADES CHECKED	
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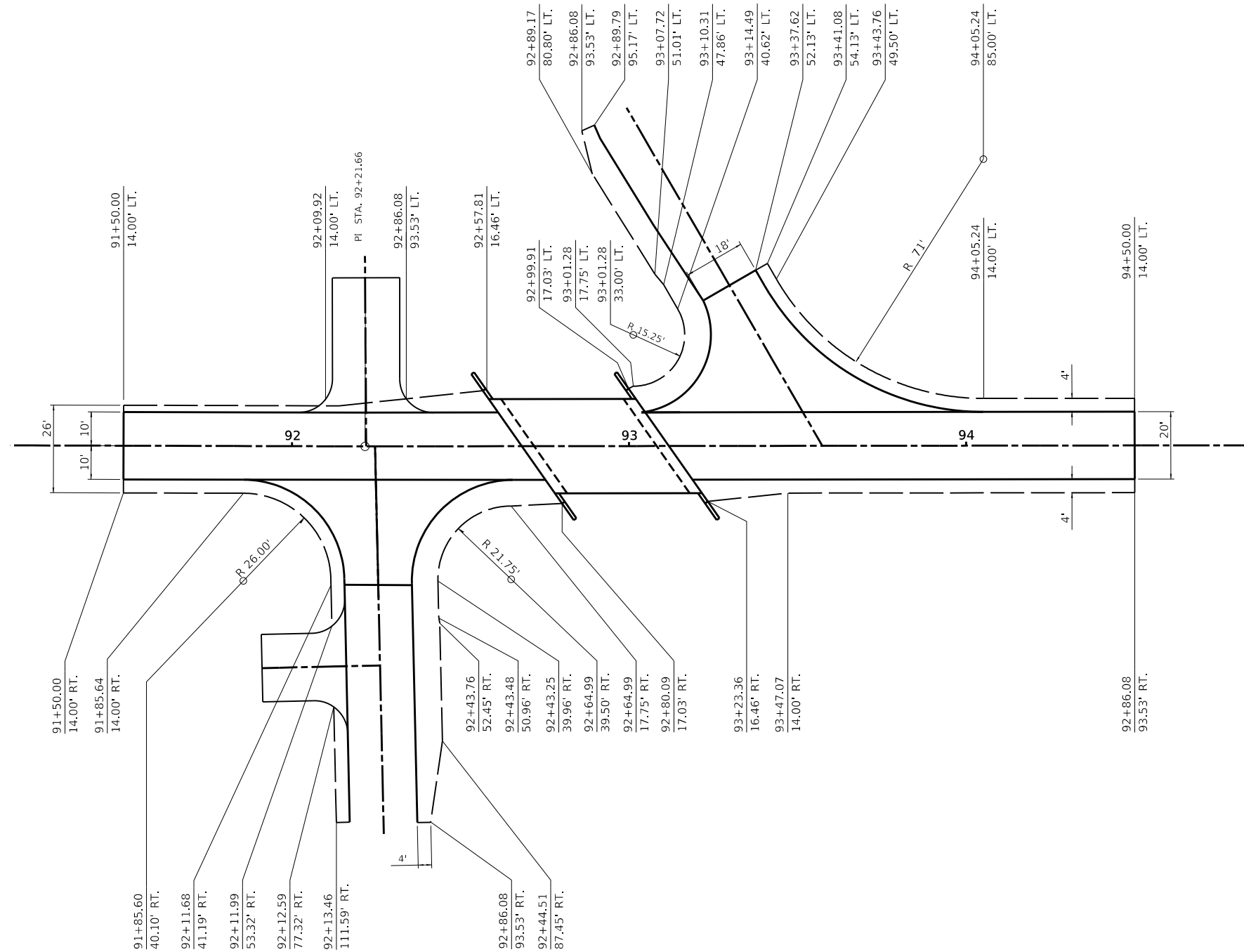
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HAMPTON, LENZINI AND RENWICK, INC.	DRAWN - T.W.K.	REVISED -	1351			17-00138-00-BR	FORD	27	5	
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62710 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / SE CORP. 184.000959	CHECKED - S.W.M.	REVISED -	CONTRACT NO. 87740							
PLOT SCALE = \$\$\$CALE\$	DATE - 01/21/2021	REVISED -	ILLINOIS FED. AID PROJECT REN(721)							
PLOT DATE = 1/22/2021			SCALE: 5V:20H	SHEET NO. 1 OF 1 SHEETS	STA. 90+00.00 TO STA. 96+00.00					



**LEGEND**

- ① STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS) = 25 FT.
- ② STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS) = 40 FT.
- ③ TBT TY 5A = 1 EACH
- ④ TBT TY 5A, (SPECIAL) = 1 EACH
- ⑤ TBT TY 1 SPL TANGENT = 2 EACH

FILE NAME = 190774-shit-guards\lder layout.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS FORD COUNTY HIGHWAY DEPARTMENT</b>	<b>GUARDRAIL LAYOUT</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - R.D.H.	REVISED -		1351	17-00138-00-BR	FORD	27	6		
PLOT SCALE = \$\$SCALE\$	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 87740						
PLOT DATE = 1/22/2021	DATE - 01/21/2021	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT REN8(721)		



**STATE OF ILLINOIS  
 FORD COUNTY HIGHWAY DEPARTMENT**

**SHOULDER LAYOUT**

BENCHMARK: Cross Notch "X" on SE wingwall. 14.2' Rt., Sta. 92+92, Elev. 711.36

EXISTING STRUCTURE NO. 027-3026: Sta. 92+95.69- Single span concrete channel beam bridge on timber abutments with concrete cap and timber wingwalls. 30.5' fc.-fc. abuts.; 26.4' o.-o. deck.

Structure will be closed to traffic during construction.

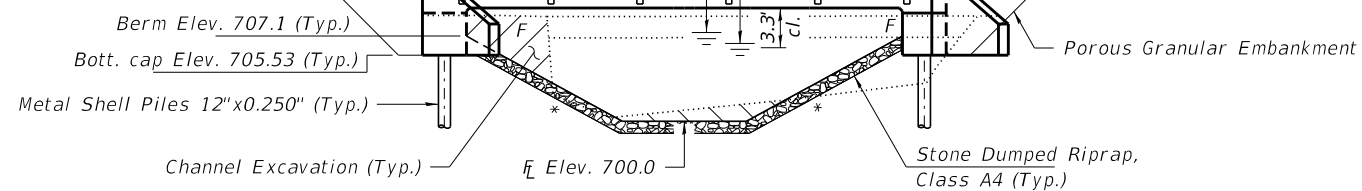
No Salvage

Traffic Barrier Terminal, Type 5A  
NW & SE corners only.  
See Std. BLR 27-1

Steel Railing, Type S-1  
See sheets 2 & 6 of 10  
for details.

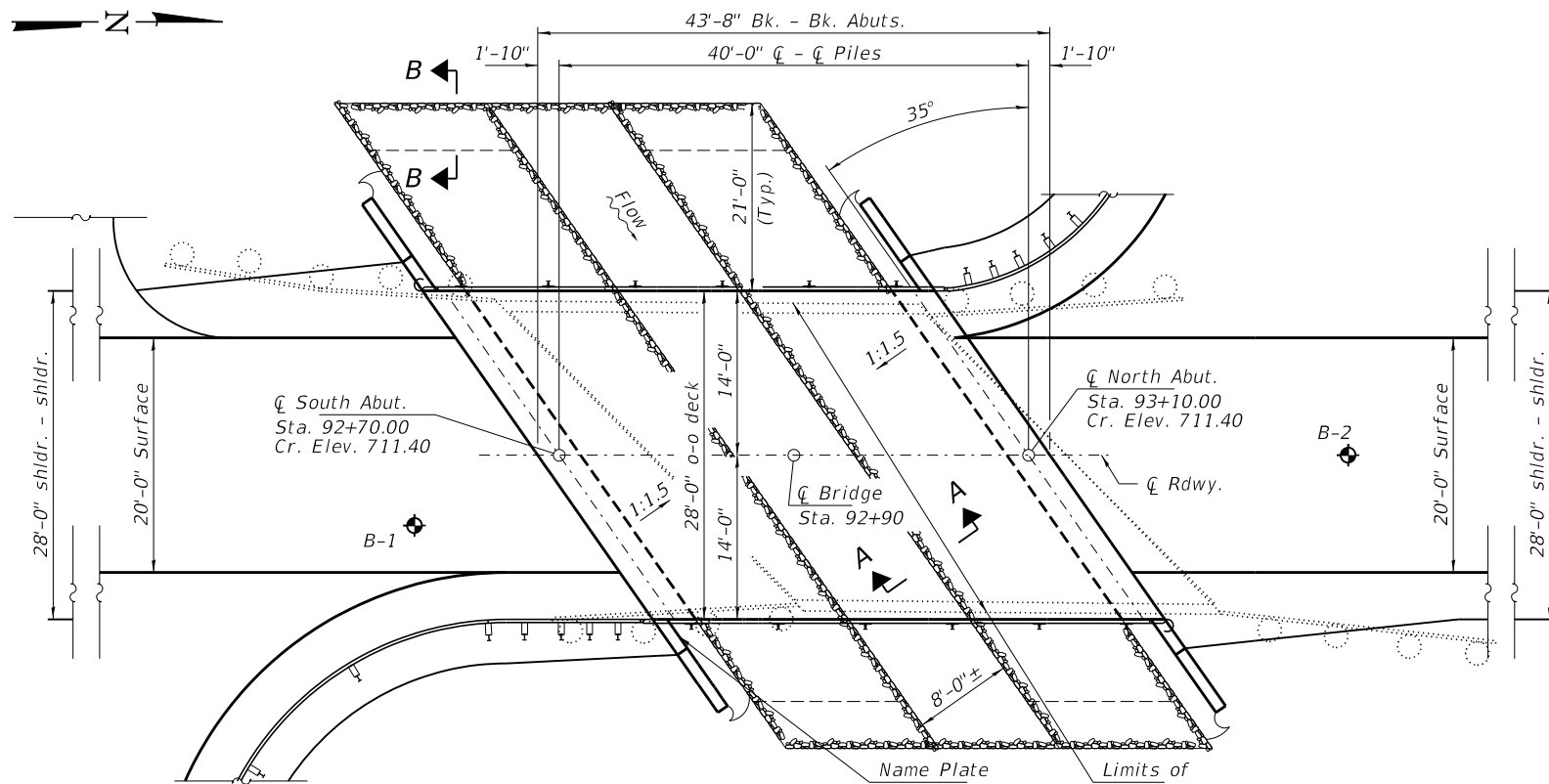
100 Yr. H.W. Elev. 707.4  
20 Yr. H.W. Elev. 706.5

Curled End Sections with  
Terminal Marker - Direct Applied. (Typ.)  
See sheets 2 & 6 of 10 for details.  
NE & SW corners only.



**ELEVATION**

\* 1:1.5 at Rt. Z's



**PLAN**

**DESIGN SCOUR ELEVATION TABLE**

Event/Limit State	Design Scour Elev. (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	705.5	705.5	8
Q200	705.5	705.5	
Design	705.5	705.5	
Check	705.5	705.5	

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.076g  
Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>) = 0.130g  
Soil Site Class = C

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition with all interims.

**LOADING HL-93**

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

**DESIGN STRESSES**

f<sub>c</sub> = 4,000 psi (Super)  
f<sub>c</sub> = 3,500 psi (Sub)  
f<sub>y</sub> = 60,000 psi (Reinf.)

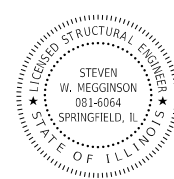
**WATERWAY INFORMATION**

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E.	Prop.	Exist.	Prop.	
Ten-Year	10	267	80	90	706.0	0.1	0.1	706.1	706.1
Design	20	330	90	100	706.5	0.1	0.1	706.6	706.6
Base	100	481	110	130	707.4	0.3	0.2	707.7	707.6
Scour Check	200	550	120	140	707.6	0.4	0.2	708.0	707.8
Max. Calc.	500	645	120	150	707.9	0.5	0.4	708.4	708.3

Existing Low Grade Elev. 710.8 @ Sta. 94+50  
Proposed Low Grade Elev. 710.8 @ Sta. 94+50  
10 Year Velocity through Existing Bridge = 3.3 fps  
10 Year Velocity through Proposed Bridge = 3.0 fps

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

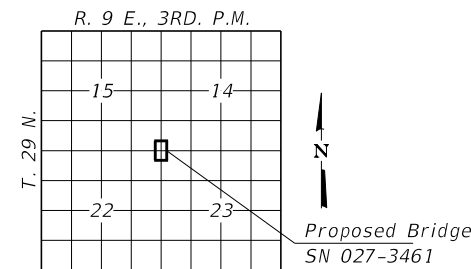
*Steven W. Megginson* 01/21/2021  
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2022

**GENERAL NOTES**

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at South Abutment or approved by the Engineer before ordering the remainder of piles. Reinforcement bars designated (E) shall be epoxy coated.  
Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.  
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.  
The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.  
The Contractor shall make allowance for the deflection of forms, shrinkage, and settlement of falsework, in addition to allowance for dead load deflection.  
Protective Coat shall be applied to the top surface and the sides of the concrete deck and wingwalls.  
Bridge Deck Grooving shall be completed on the bridge deck. Pavement rollers shall not be allowed on bridge deck grooving. All construction joints shall be bonded.



**LOCATION SKETCH**



**PROFILE GRADE**

**INDEX OF STRUCTURE SHEETS**

1. General Plan & Elevation
2. General Details
3. Slab Elevations
4. Superstructure
5. Superstructure Details
6. Steel Railing, Type S-1
7. Abutments
8. Metal Shell Pile Details
- 9-10. Borings

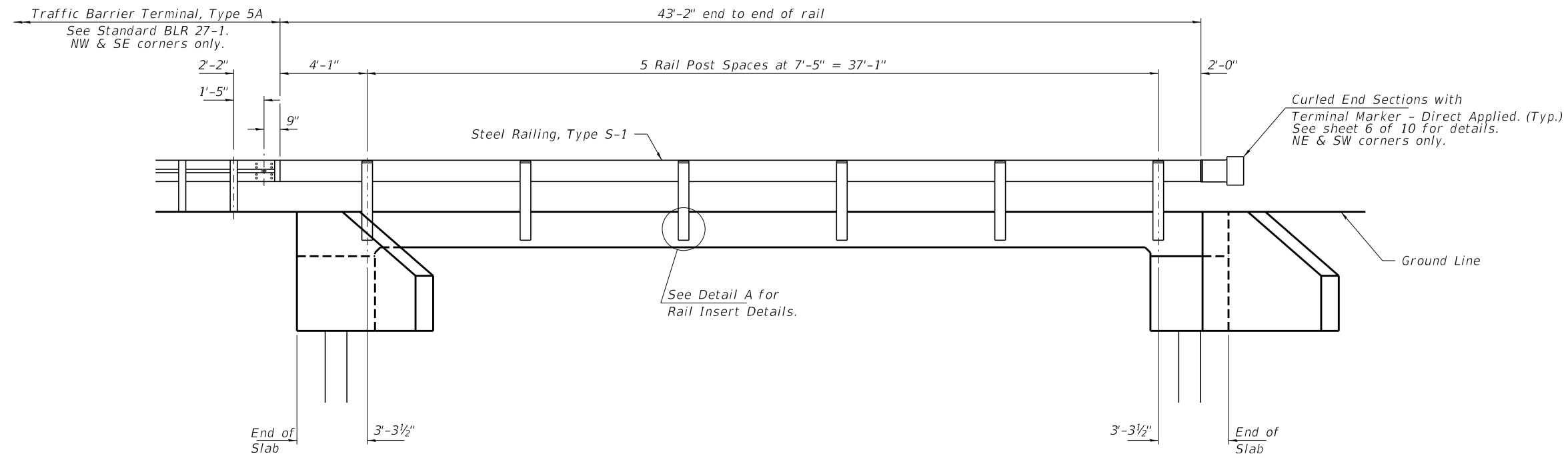
WEST BRANCH HORSE CREEK  
BUILT 202 BY  
FORD COUNTY  
C.H. 18 / BUCKINGHAM ROAD  
SEC. 17-00138-00-BR  
STR. NO. 027-3461  
LOADING HL-93

**NAME PLATE**  
See Std. 515001

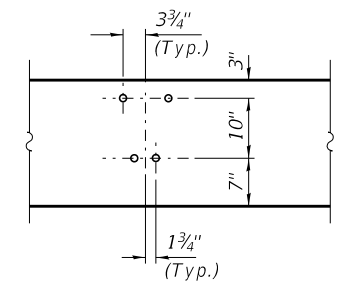
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			55
Stone Dumped Riprap, Class A4	Ton			230
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		32.4	32.4
Concrete Superstructure	Cu. Yd.	79.8		79.8
Bridge Deck Grooving	Sq. Yd.	136		136
Protective Coat	Sq. Yd.	152	23	175
Reinforcement Bars, Epoxy Coated	Pound	29,670	4,260	33,930
Steel Railing, Type S-1	Foot	87		87
Furnishing Metal Shell Piles 12"x0.250"	Foot		360	360
Driving Piles	Foot		360	360
Test Pile Metal Shells	Each		1	1
Name Plates	Each		1	1
Porous Granular Embankment	Ton			92

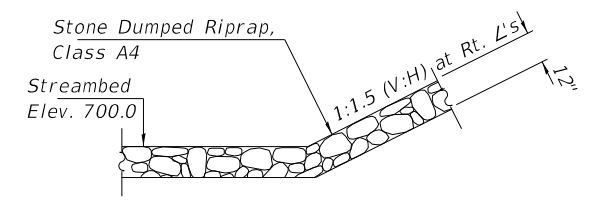




**ELEVATION**  
 Showing Rail Post Spaces  
 See sheet 6 of 10 for Railing Details.

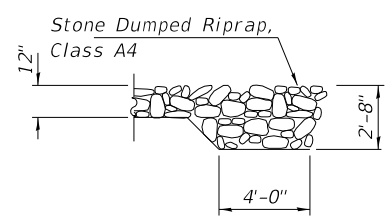


**DETAIL A**

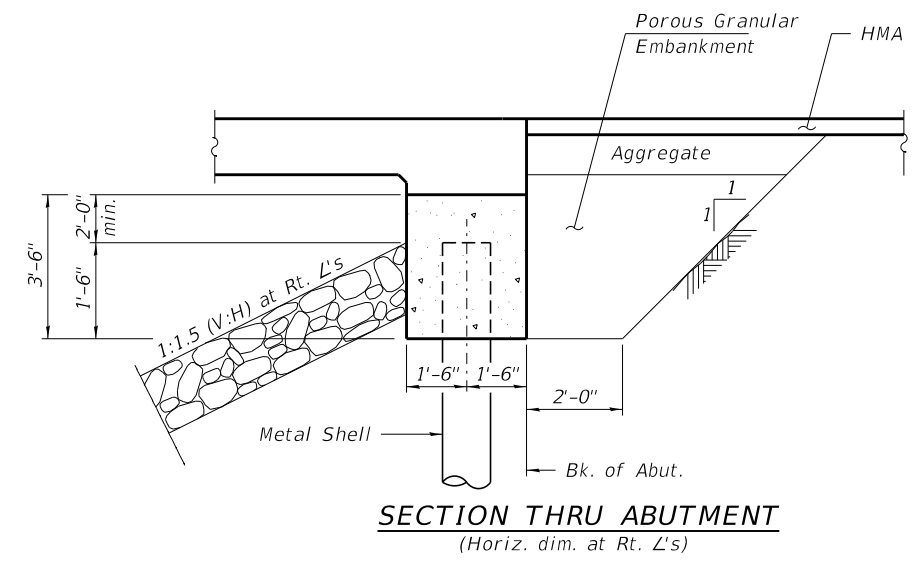


**SECTION A-A**

Note: See Special Provisions for Stone Dumped Riprap, Class A4.

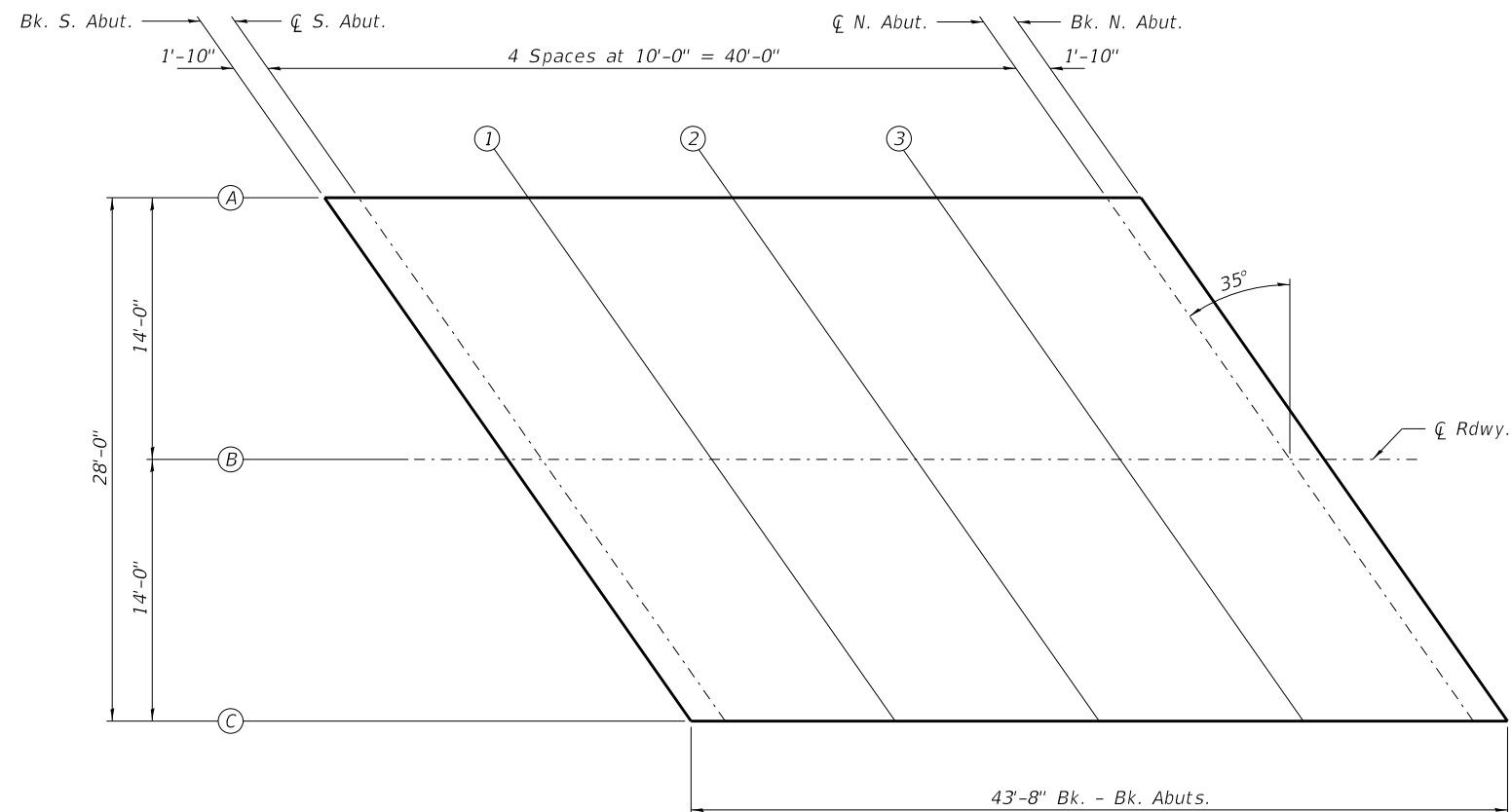
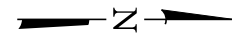


**SECTION B-B**



**SECTION THRU ABUTMENT**  
 (Horiz. dim. at Rt. L's)

FILE NAME = 190774-shi-bridge.dgn	USER NAME = rthosick	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS FORD COUNTY HIGHWAY DEPARTMENT</b>	<b>GENERAL DETAILS STRUCTURE NO. 027-3461</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			1351	17-00138-00-BR	FORD	27	9
PLOT DATE = 1/22/2021	DRAWN - R.D.H.	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 87740				
						ILLINOIS FED. AID PROJECT REN8(721)				



**PLAN**

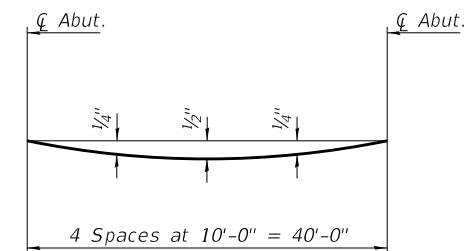
**TABLE OF ELEVATIONS**

LOCATION		BK. S. ABUT.	CL S. ABUT.	SPAN 1			CL. N. ABUT.	BK. N. ABUT.
LINE	T.	711.108	711.108	1	2	3	711.108	711.108
A	ADJ.	711.108	711.108	711.111	711.112	711.111	711.108	711.108
**	Bott. of Slab	709.442	709.442	709.444	709.445	709.444	709.442	709.442

LOCATION		BK. S. ABUT.	CL S. ABUT.	SPAN 1			CL. N. ABUT.	BK. N. ABUT.
LINE	T.	711.400	711.400	1	2	3	711.400	711.400
B	ADJ.	711.400	711.400	711.402	711.403	711.402	711.400	711.400
	Bott. of Slab	709.733	709.733	709.736	709.737	709.736	709.733	709.733

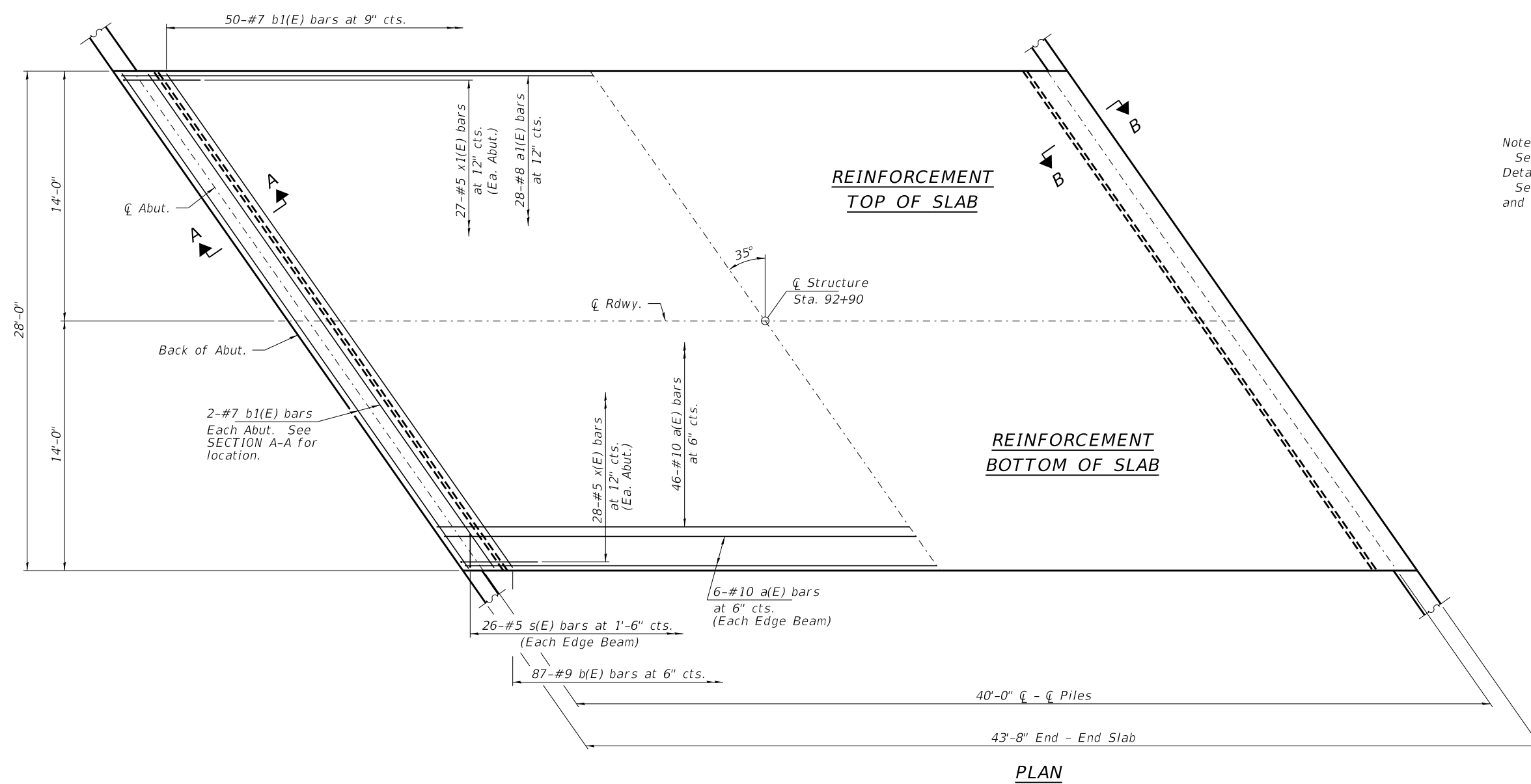
LOCATION		BK. S. ABUT.	CL S. ABUT.	SPAN 1			CL. N. ABUT.	BK. N. ABUT.
LINE	T.	711.108	711.108	1	2	3	711.108	711.108
C	ADJ.	711.108	711.108	711.111	711.112	711.111	711.108	711.108
**	Bott. of Slab	709.442	709.442	709.444	709.445	709.444	709.442	709.442

T. - Theoretical elevation at top of slab  
 Adj. - T adjusted for dead load deflection  
 \*\* Bottom of slab elevation equals bottom of edge beam

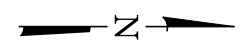


**DEAD LOAD DEFLECTION DIAGRAM**  
 (Includes weight of concrete only.)

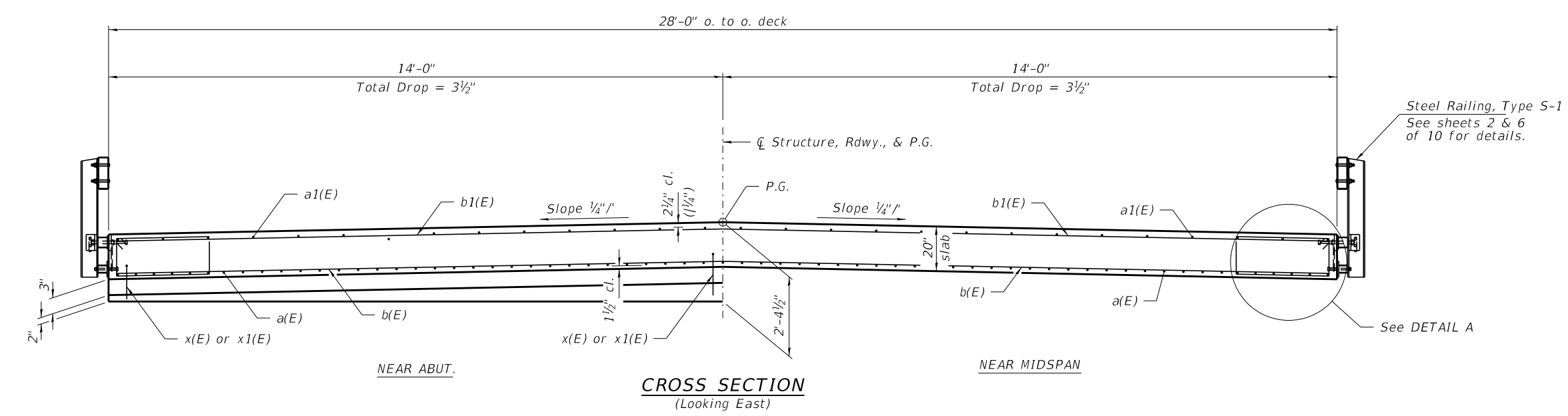
Notes:  
 The deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown.  
 The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework in addition to allowance for dead load deflection.



Notes:  
 See sheets 5 of 10 for Superstructure  
 Details and Bill of Material.  
 See sheet 5 of 10 for SECTION A-A,  
 and DETAIL A.



**PLAN**

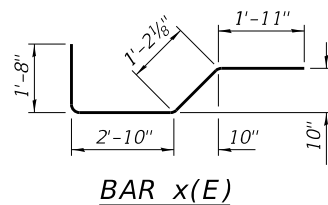


Steel Railing, Type S-1  
 See sheets 2 & 6  
 of 10 for details.

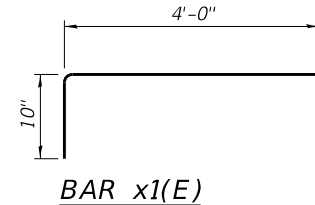
See DETAIL A

**CROSS SECTION**  
 (Looking East)

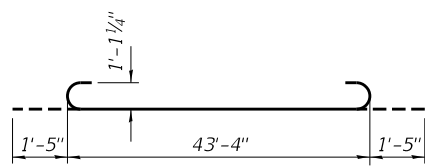
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<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			1351	17-00138-00-BR	FORD	27	11	
PLOT DATE = 1/22/2021	DRAWN - R.D.H.	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 87740					
						SHEET NO. 4 OF 10 SHEETS					



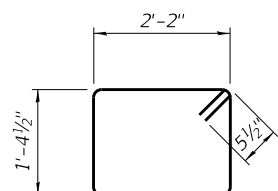
BAR x(E)



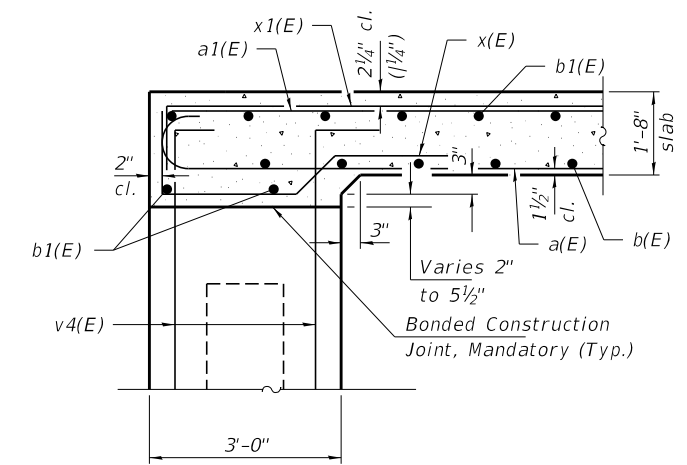
BAR x1(E)



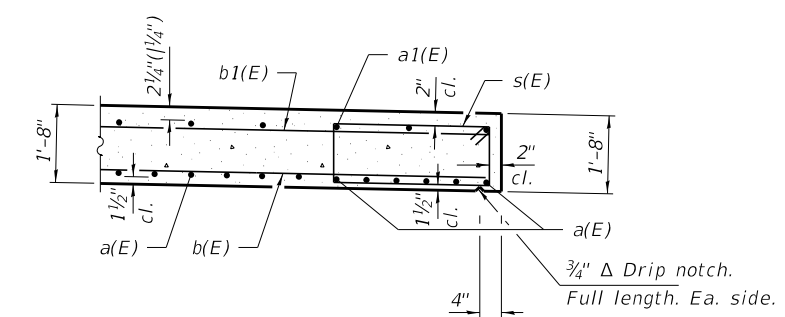
BAR a(E)



BAR s(E)



SECTION A-A

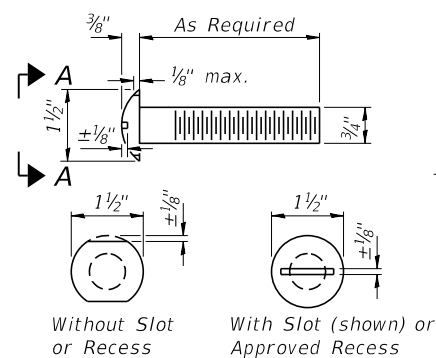


DETAIL A

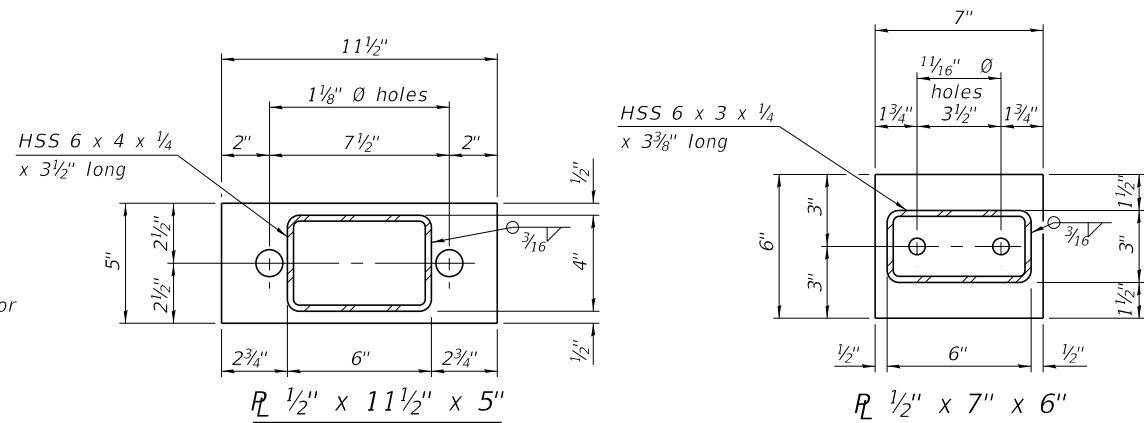
**SUPERSTRUCTURE  
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	58	#10	46'-2"	
a1(E)	28	#8	43'-4"	
b(E)	87	#9	33'-10"	
b1(E)	54	#7	33'-10"	
s(E)	52	#5	8'-1"	
x(E)	56	#5	7'-8"	
x1(E)	54	#5	4'-10"	
Concrete Superstructure			Cu. Yd.	79.8
Protective Coat			Sq. Yd.	152
Reinforcement Bars, Epoxy Coated			Pound	29,670

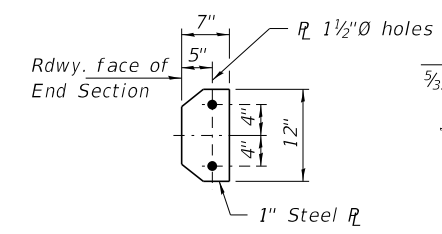
Reinforcement bars designated (E) shall be epoxy coated.



**VIEW A-A**  
**ROUND HEAD BOLT**



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

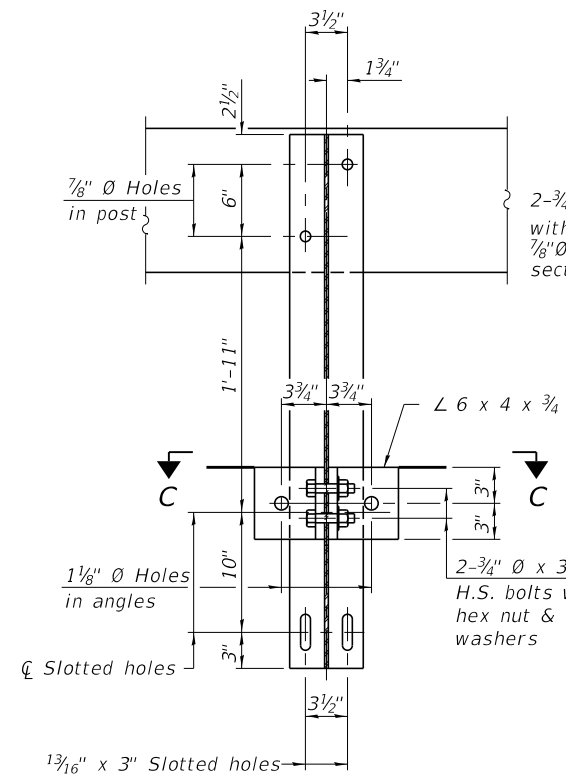


**SECTION E-E** **CURLED END SECTION DETAILS**

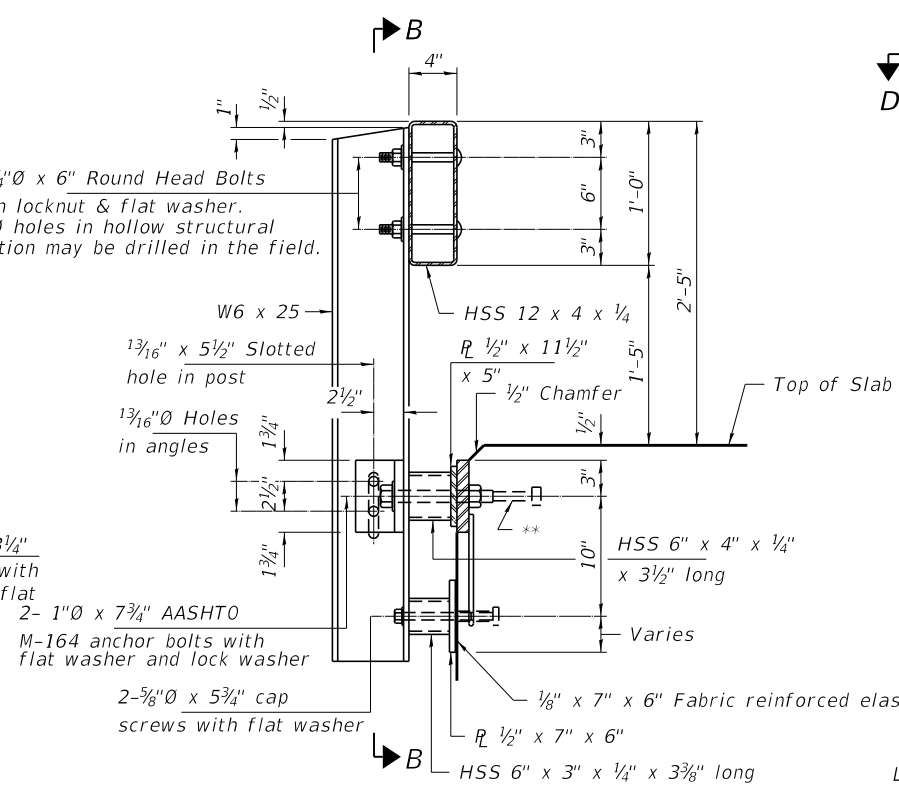
**SPLICE DIMENSIONS**

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	

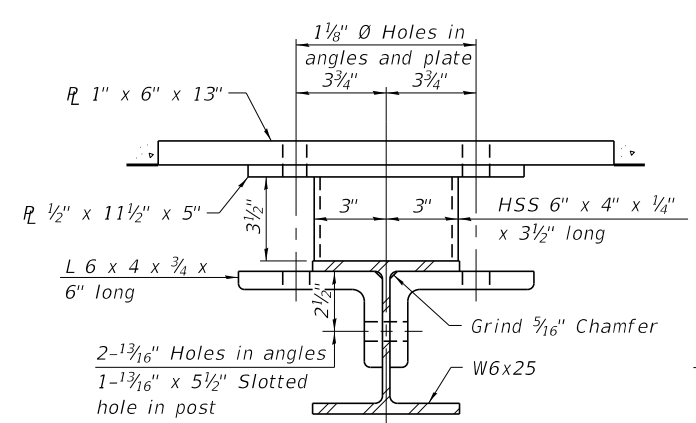
T = Total movement at expansion joint as shown on the design plans.



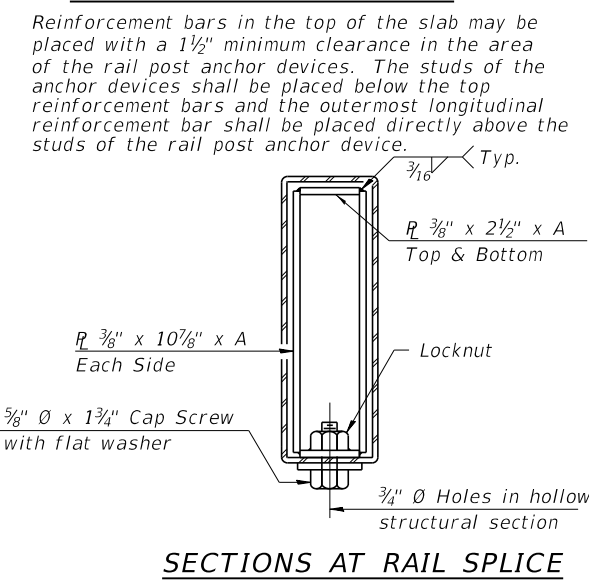
**SECTION B-B**



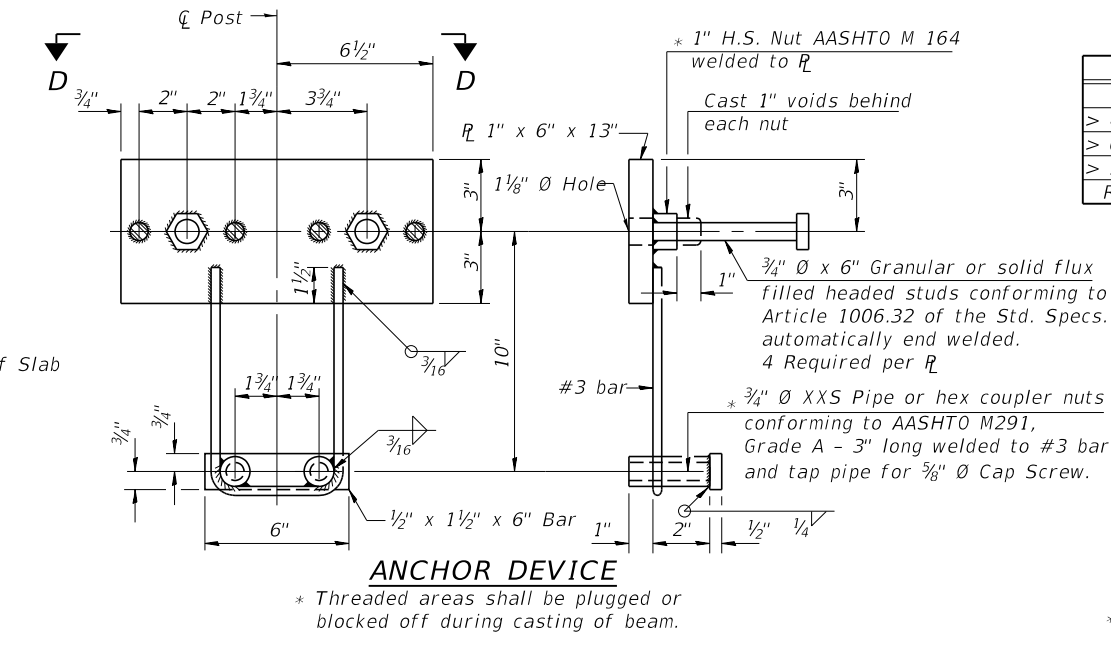
**SECTION AT RAILING POST**



**SECTION C-C**

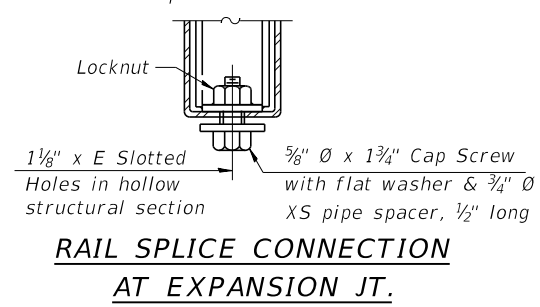


**SECTIONS AT RAIL SPLICE**

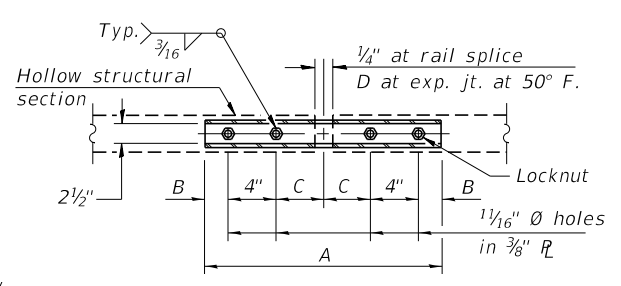


**ANCHOR DEVICE**

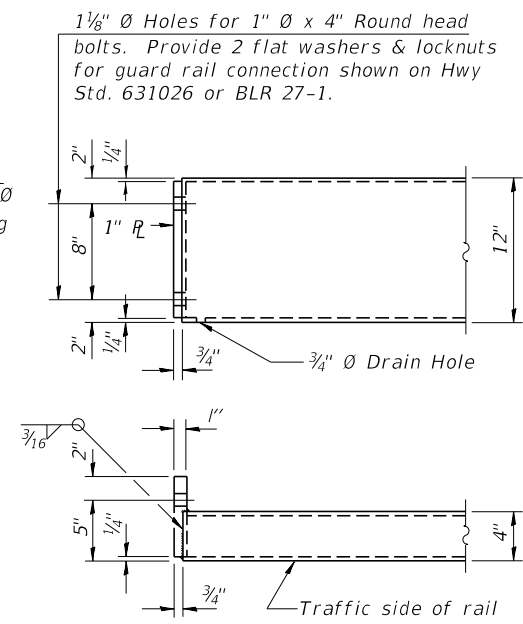
\* Threaded areas shall be plugged or blocked off during casting of beam.



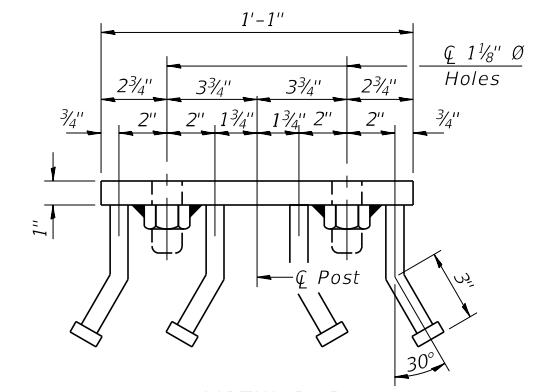
**RAIL SPLICE CONNECTION AT EXPANSION JT.**



**PLAN-BOTT. SPLICE R TYPICAL**



**END OF RAIL DETAILS**



**VIEW D-D**

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	87

R-23A 2-17-2017 (10'-9" Maximum Post Spacing)

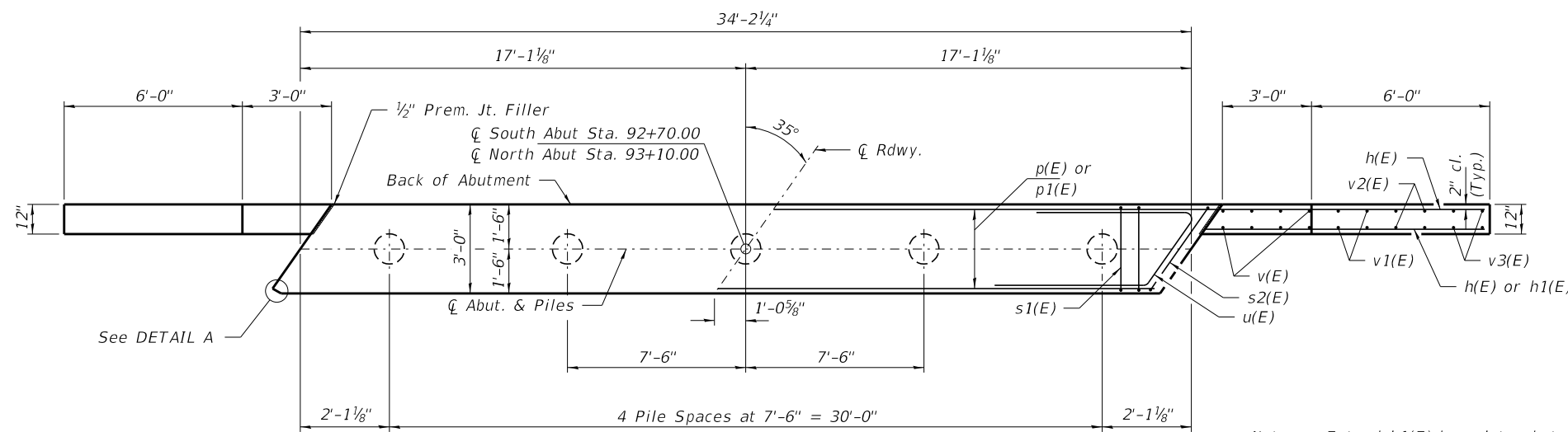
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HAMPTON, LENZINI AND RENWICK, INC.	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
3085 STEVENSON DRIVE, SUITE 201	PLOT DATE = 1/22/2021	DRAWN - R.D.H.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 184.009959			

**STATE OF ILLINOIS**  
**FORD COUNTY HIGHWAY DEPARTMENT**

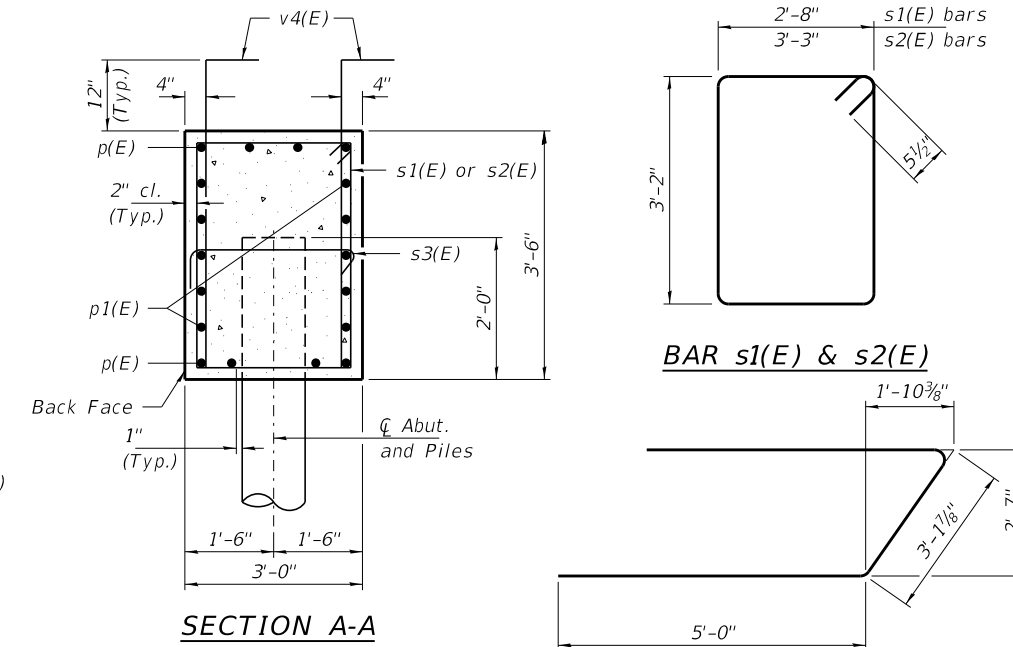
**STEEL RAILING, TYPE S-1**  
**STRUCTURE NO. 027-3461**

SHEET NO. 6 OF 10 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1351	17-00138-00-BR	FORD	27	13
CONTRACT NO. 87740				
ILLINOIS FED. AID PROJECT RENR(721)				



**PLAN**

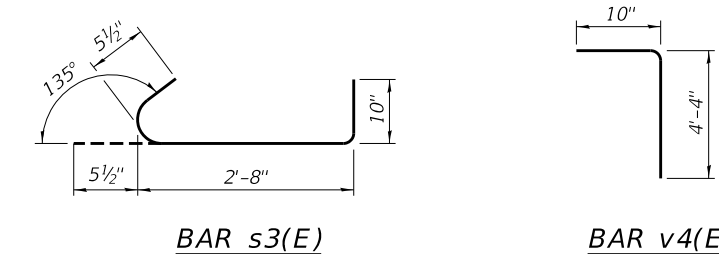


**SECTION A-A**

**BAR s1(E) & s2(E)**

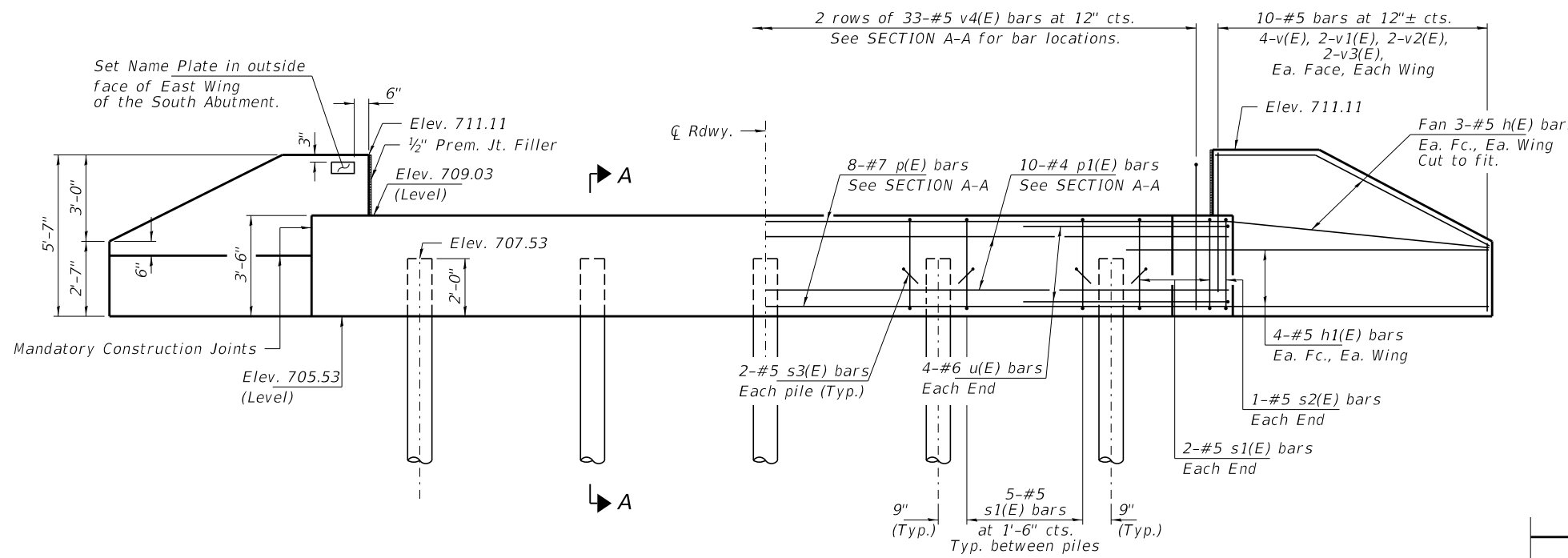
**BAR u(E)**

Notes: Extend h1(E) bars into abutment cap and superstructure.  
 Top of wing shall be poured monolithic with the deck. Bottom of wing shall be poured monolithic with the abutment cap. Entire quantity included with Concrete Structures.  
 For details of piles, see sheet 8 of 9.  
 Protective coat shall be applied to the front face and top of wing wall.



**BAR s3(E)**

**BAR v4(E)**



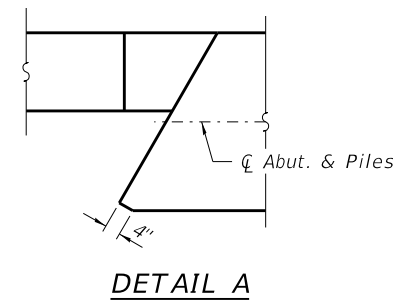
**ELEVATION**  
(Looking North)

**PILE DATA**

Type: Metal Shell Piles 12"x0.250"  
 Nominal Required Bearing: 235 Kips/Pile  
 Factored Resistance Available: 130 Kips/Pile  
 Est. Length: 40 Ft/Pile  
 No. Production Piles: 9  
 No. Test Piles: 1

Notes: One test pile shall be driven in a permanent location at the South Abutment.

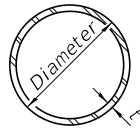
The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.



**DETAIL A**

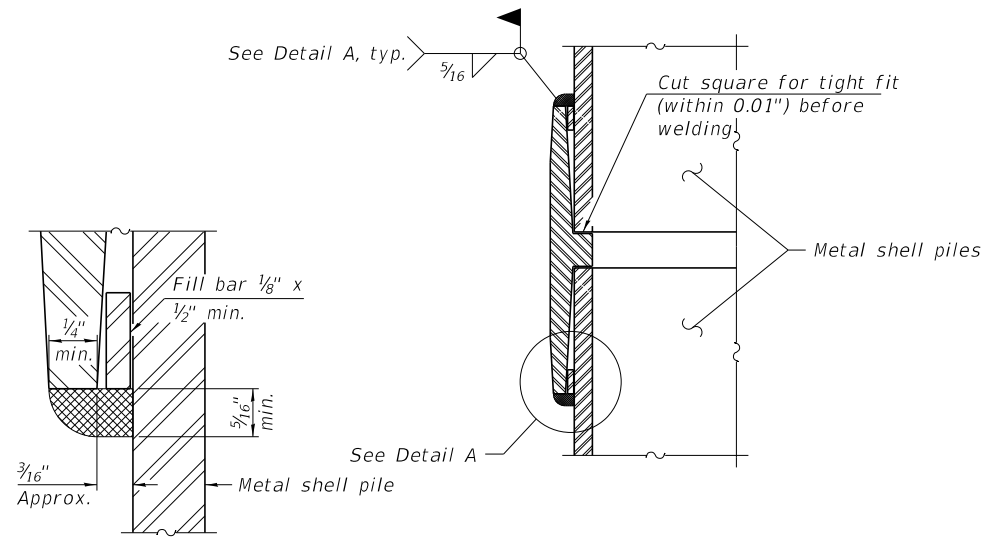
**BILL OF MATERIAL - 2 ABUTS.**

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	24	#5	11'-3"	—
h1(E)	32	#5	8'-9"	—
p(E)	16	#7	33'-10"	—
p1(E)	20	#4	33'-10"	—
s1(E)	48	#5	12'-7"	□
s2(E)	4	#5	13'-9"	□
s3(E)	20	#5	4'-0"	┌
u(E)	16	#6	13'-2"	—
v(E)	32	#5	5'-2"	—
v1(E)	16	#5	4'-2"	—
v2(E)	16	#5	3'-3"	—
v3(E)	16	#5	2'-3"	—
v4(E)	132	#5	5'-2"	└
Concrete Structures			Cu. Yd.	32.4
Protective Coat			Sq. Yd.	23
Reinforcement Bars, Epoxy Coated			Pound	4,260
Furnishing Metal Shell Piles 12"x0.250"			Foot	360
Driving Piles			Foot	360
Test Pile Metal Shell			Each	1
Name Plates			Each	1

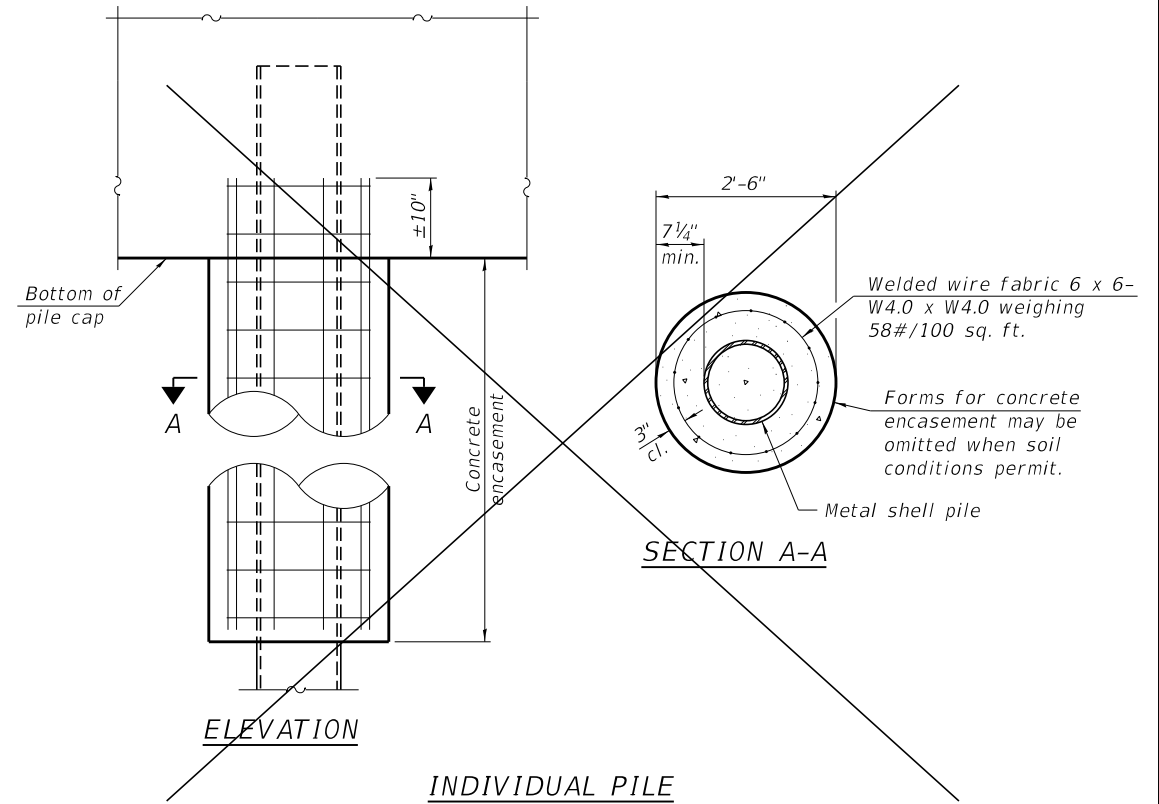


**METAL SHELL PILE TABLE**

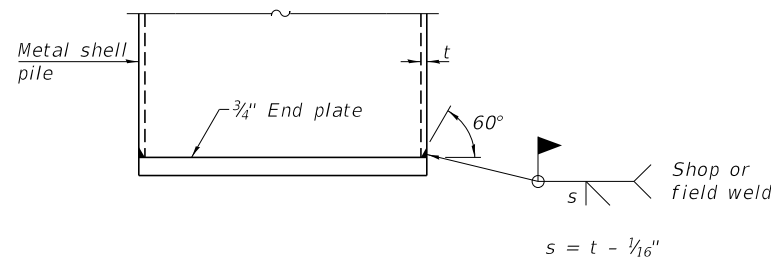
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



**DETAIL A**

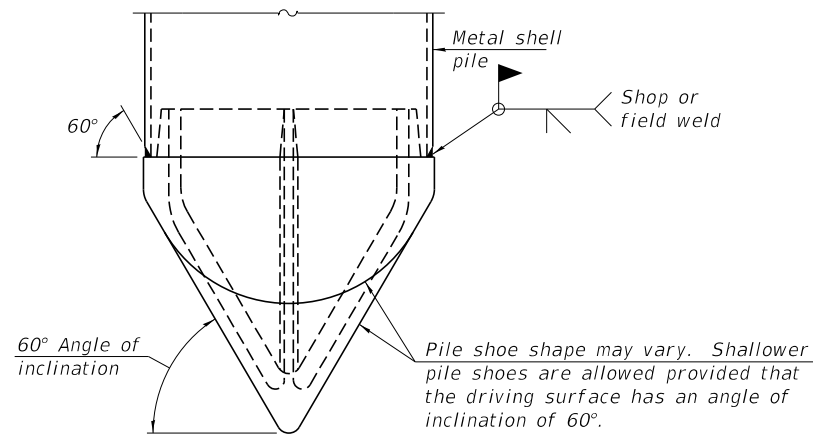


**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
(Not required)



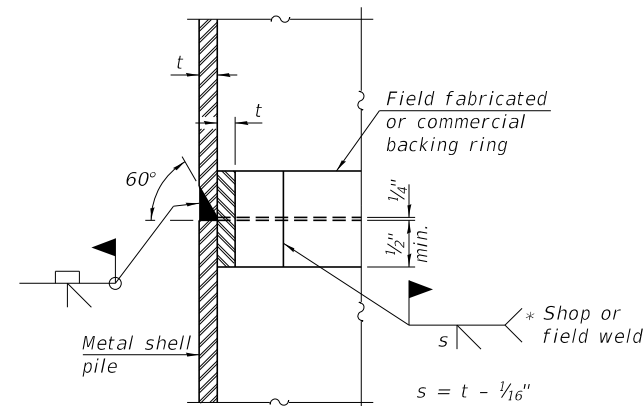
**END PLATE ATTACHMENT**

**WELDED COMMERCIAL SPLICE**  
Notes:  
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
Pile segments shall be driven to solid contact with splicer before welding.

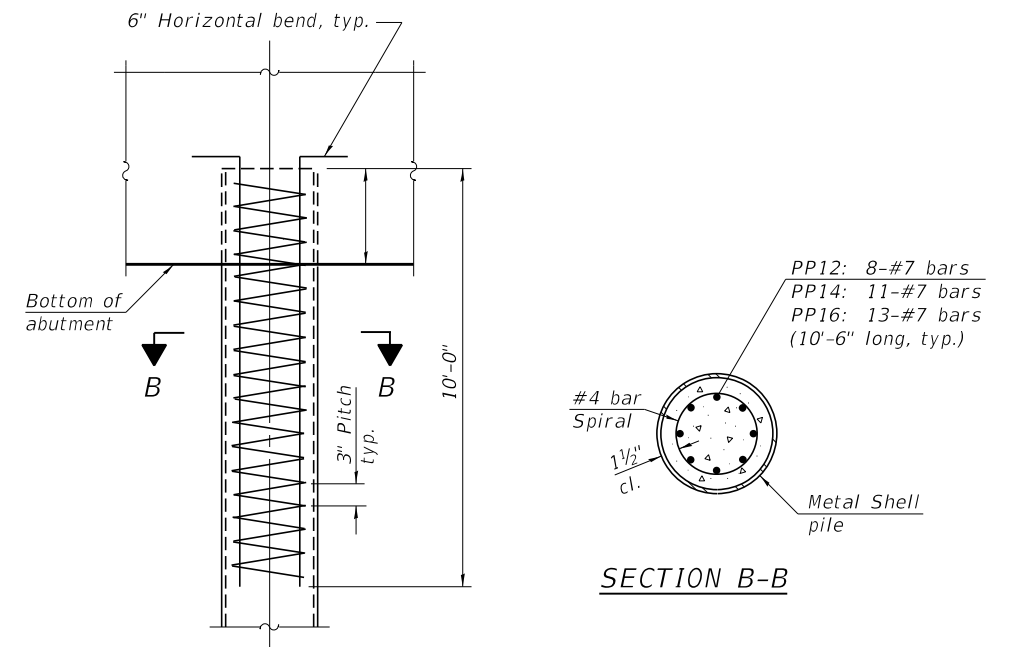


**PILE SHOE ATTACHMENT**

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



**COMPLETE PENETRATION WELD SPLICE**  
\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



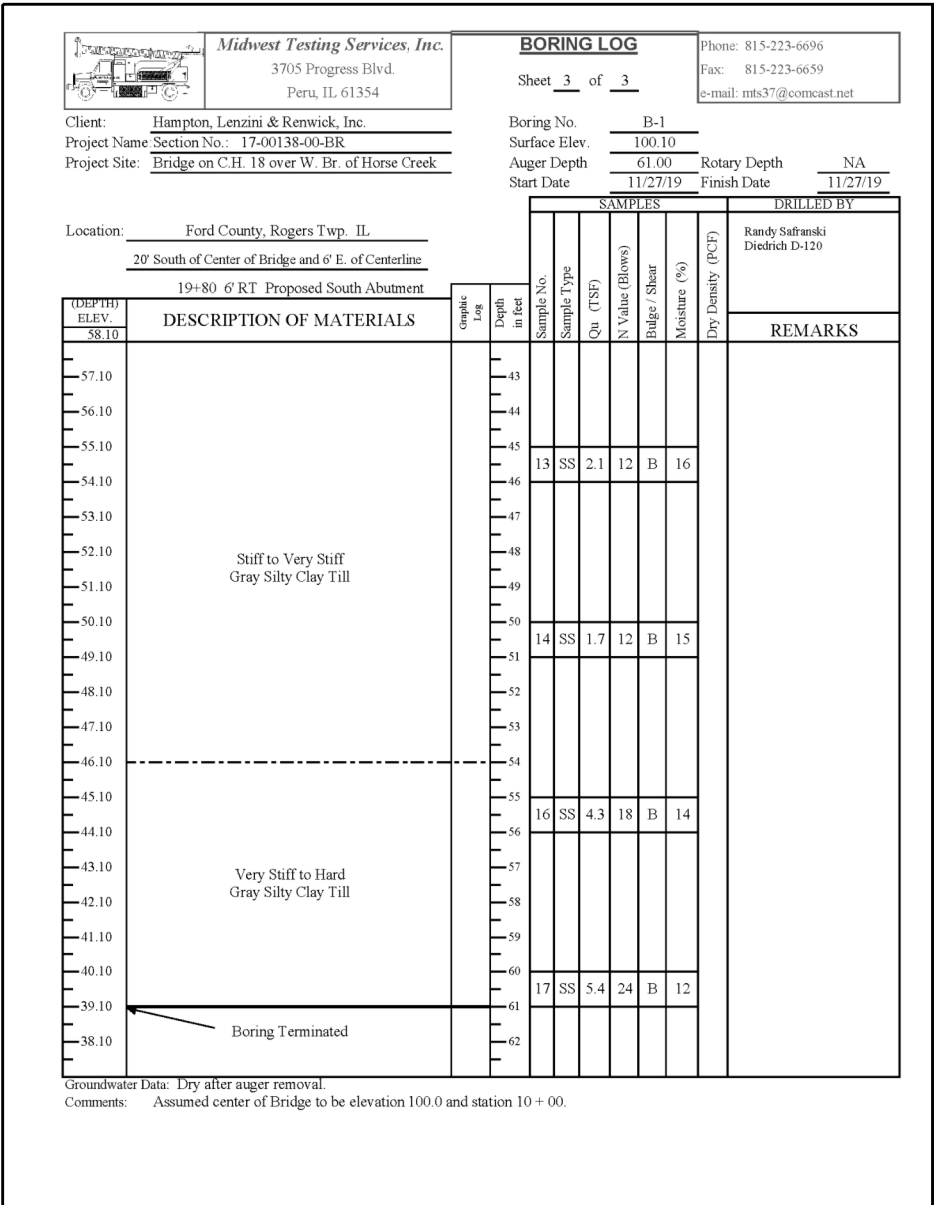
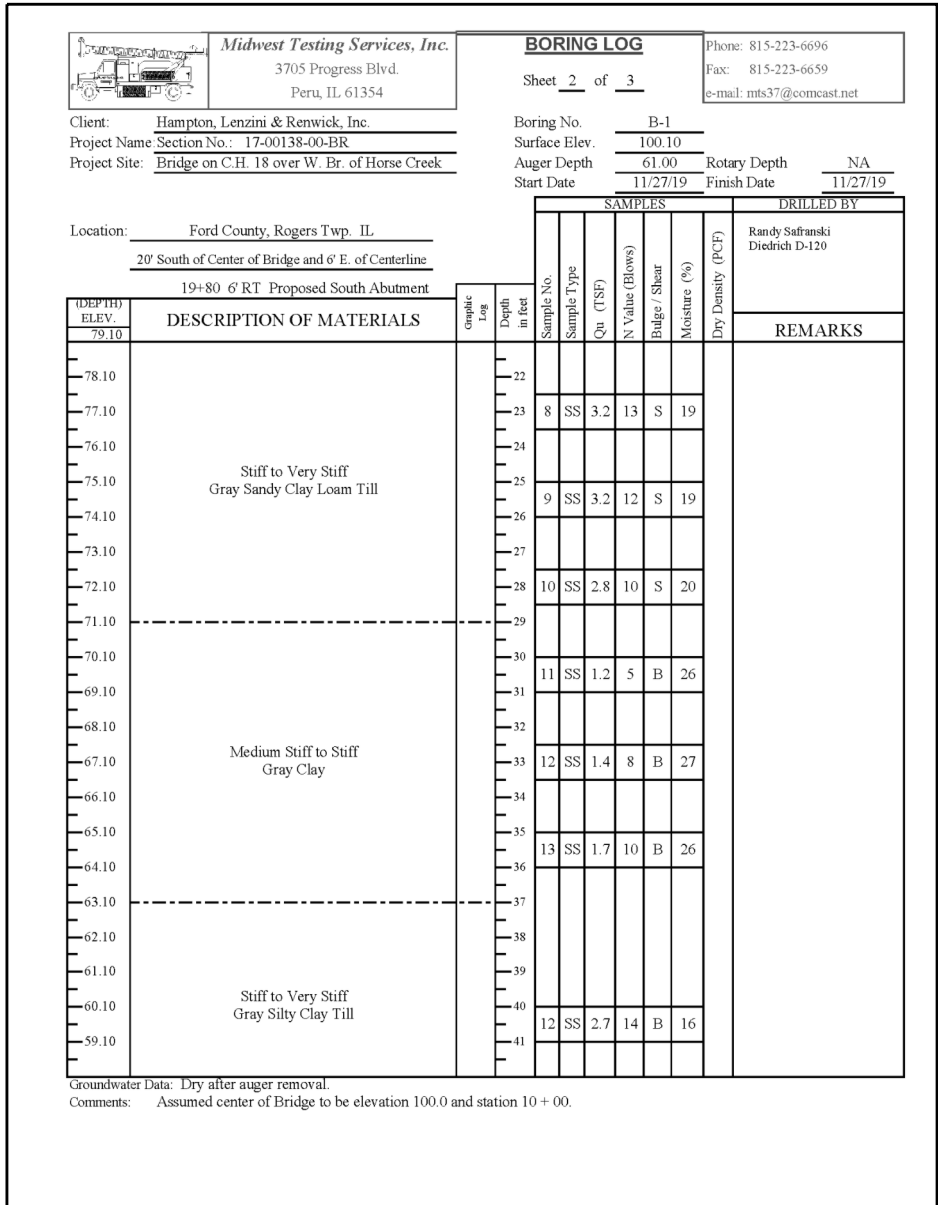
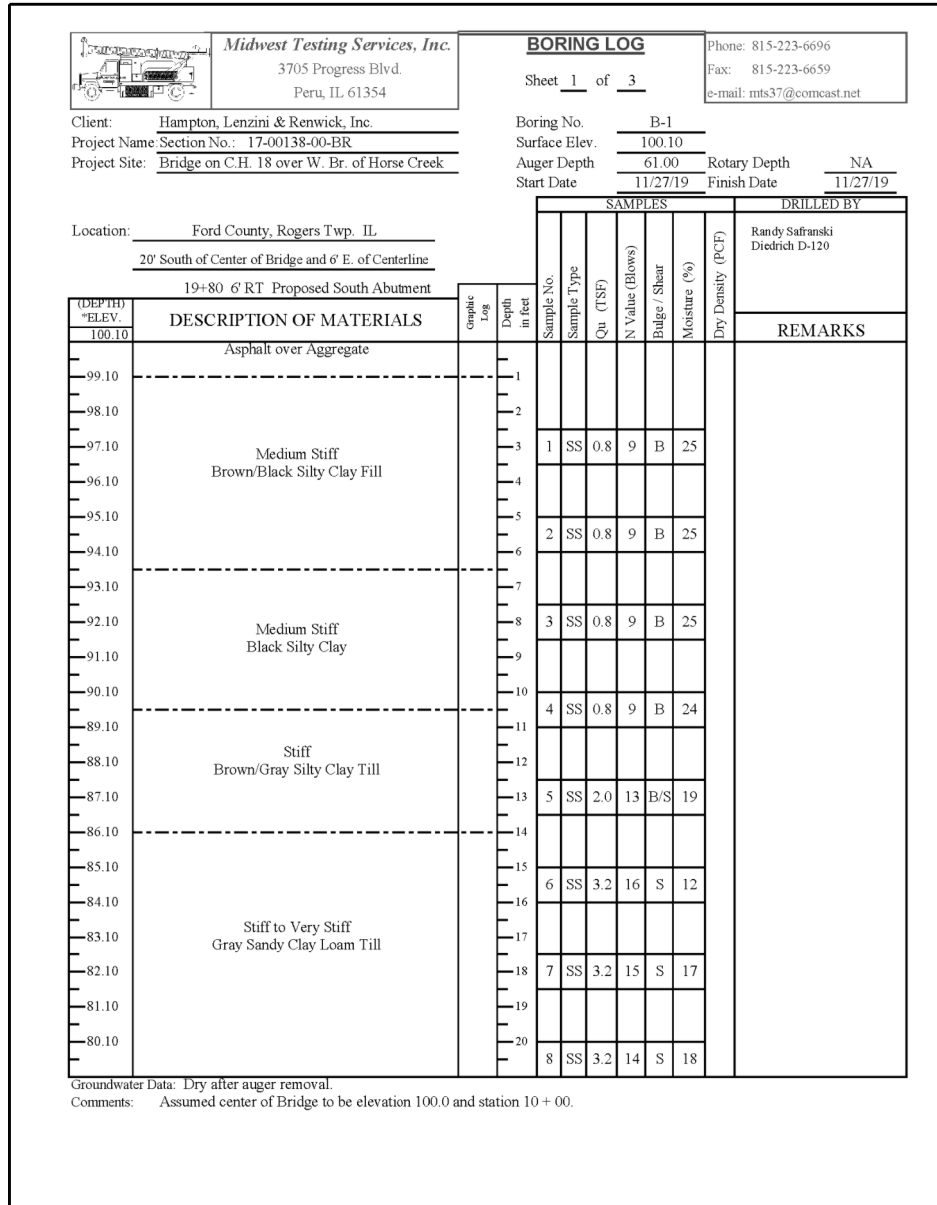
**ELEVATION**

**REINFORCEMENT AT ABUTMENTS**  
(Omit when concrete encasement is specified)

Note:  
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

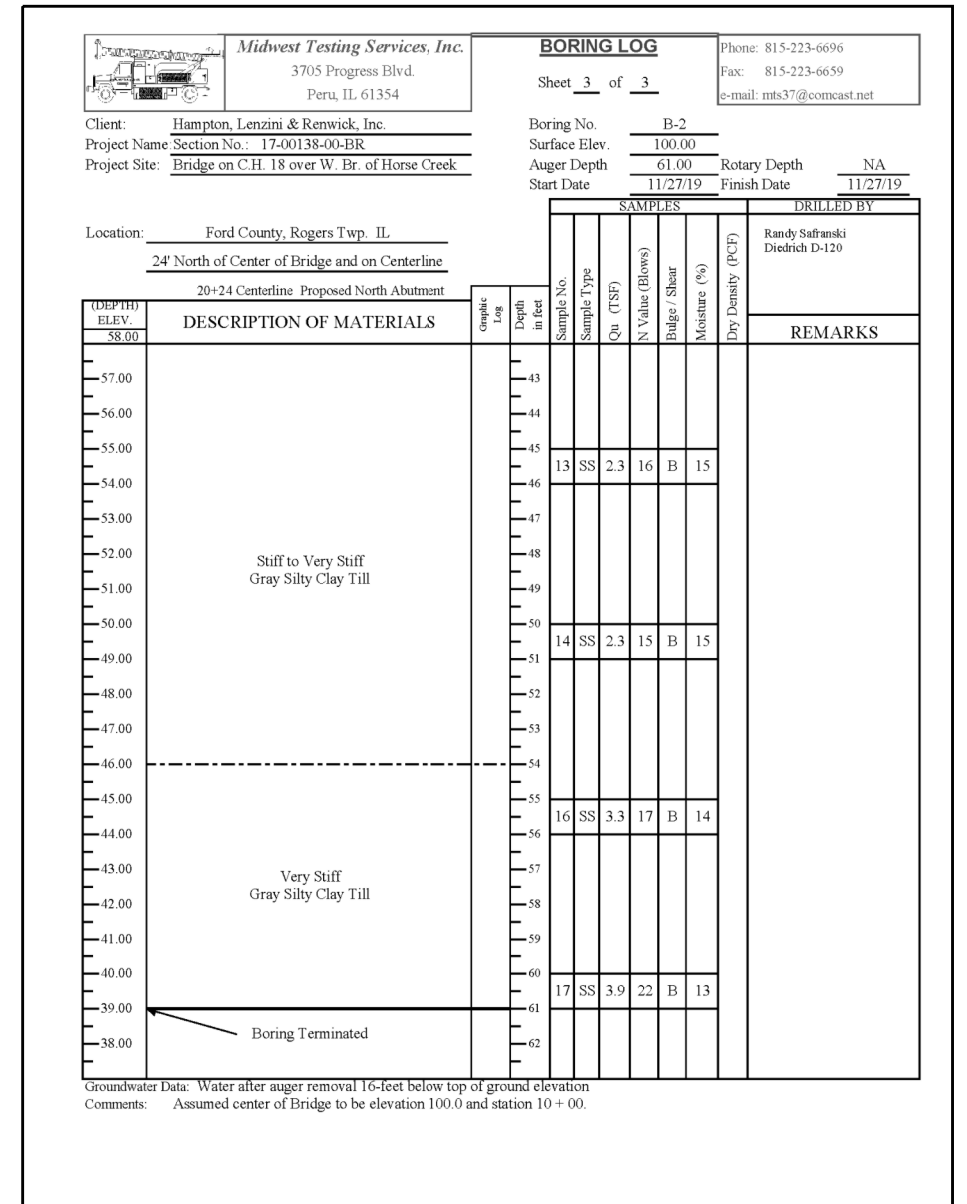
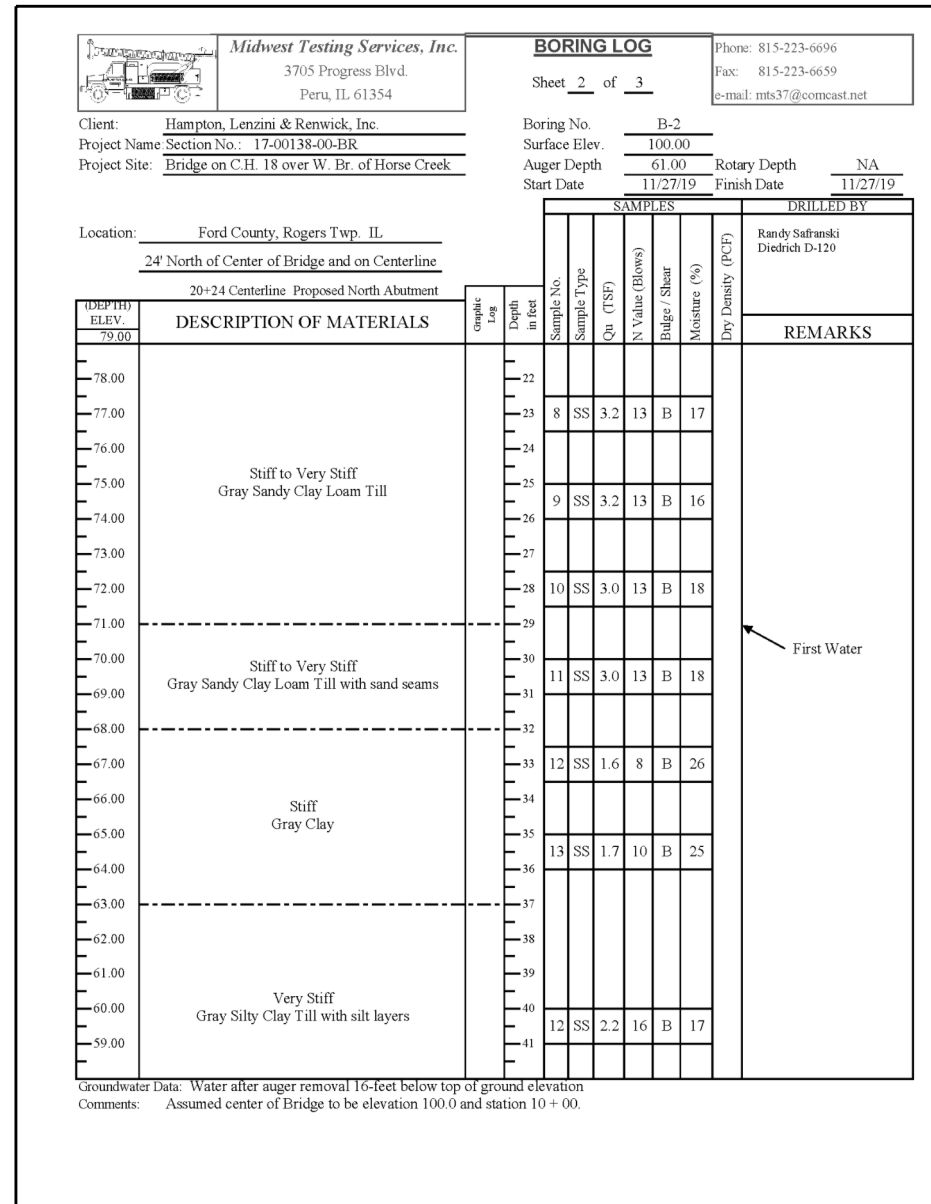
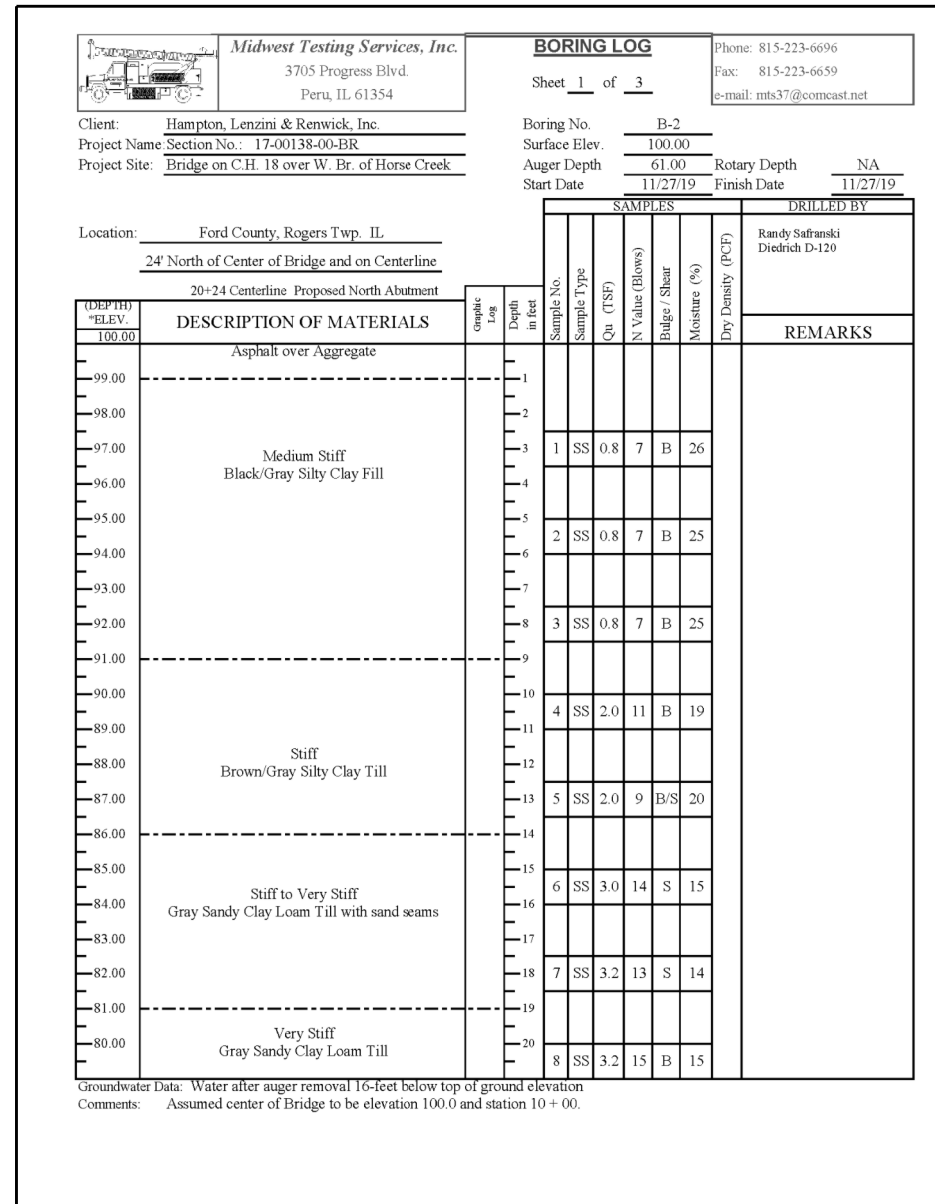
F-MS 1-1-2020

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			1351	17-00138-00-BR	FORD	27	15
PLOT DATE = 1/22/2021	DRAWN - R.D.H.	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 87740				
						ILLINOIS FED. AID PROJECT REN8(721)				



**BORING-1**

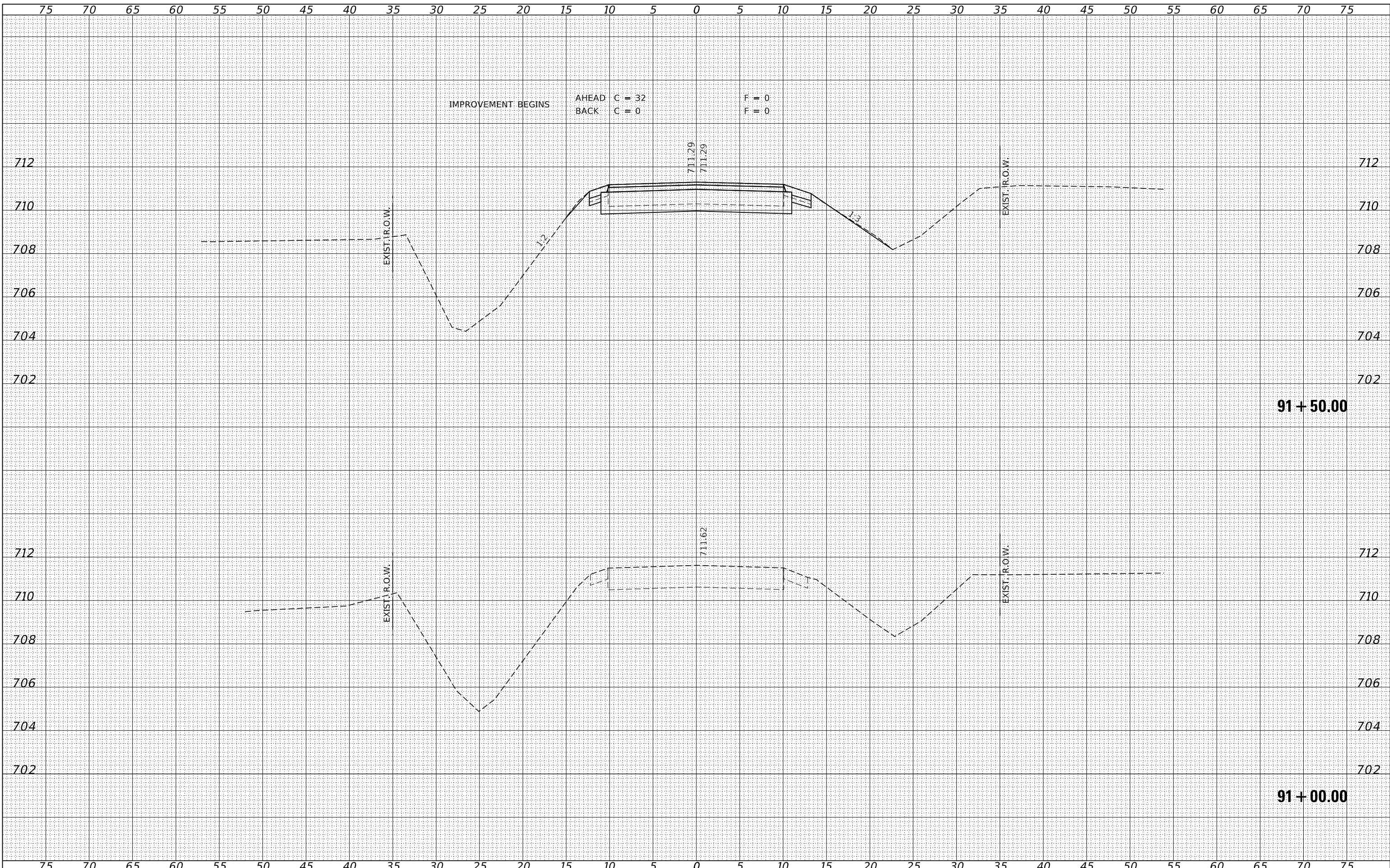




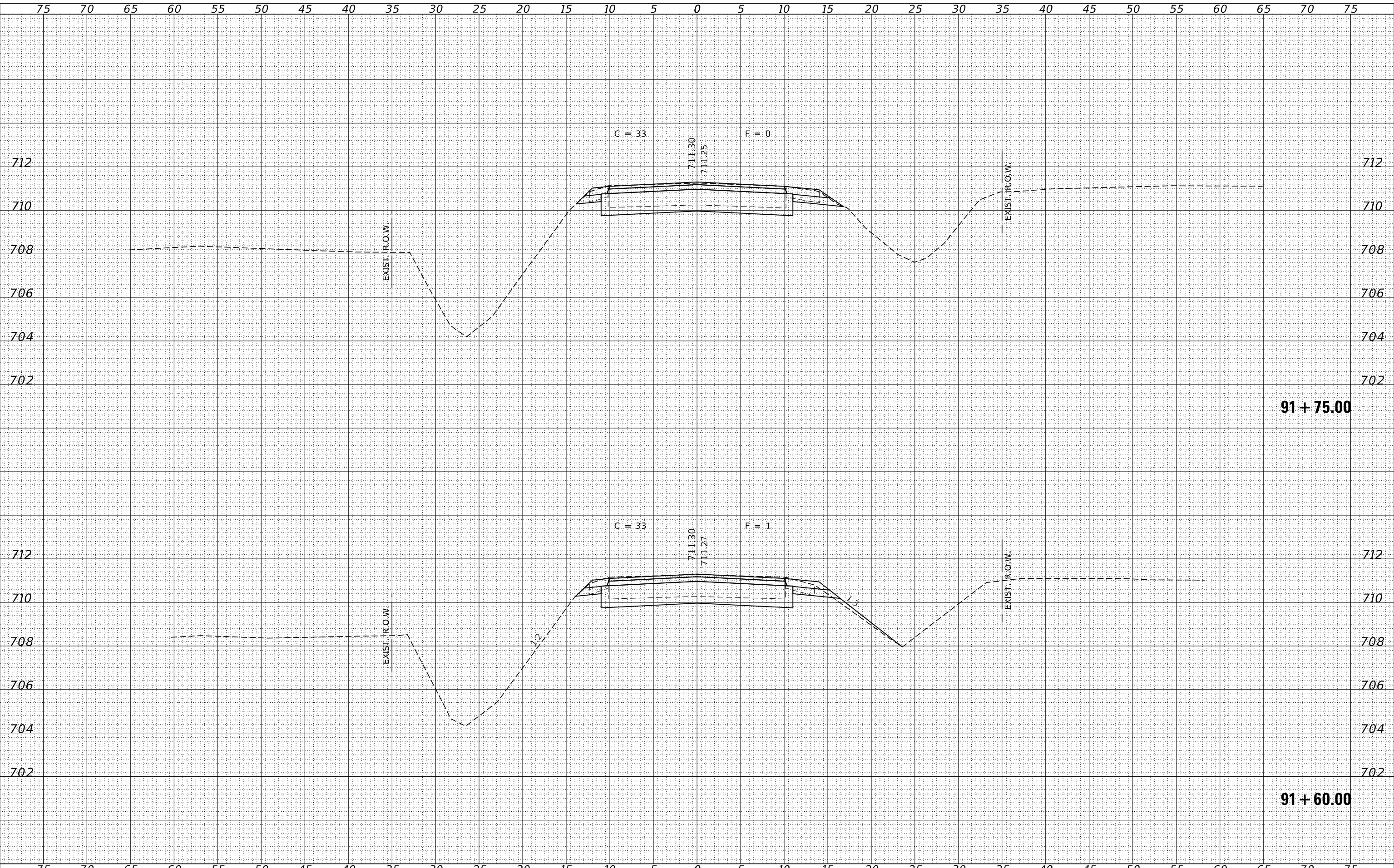
**BORING-2**

BY	DATE

BY	DATE



FILE NAME = 190774-chn-xssheets.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISD -	STATE OF ILLINOIS FORD COUNTY HIGHWAY DEPARTMENT				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009958	PLOT SCALE = \$SCALES	DRAWN - T.W.K.	REVISD -	STATION CROSS SECTIONS				1351	17-00138-00-BR	FORD	27	18
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		DATE - 01/21/2021	REVISD -					ILLINOIS FED. AID PROJECT RENR(721)				



BY	DATE

BY	DATE

FILE NAME = 190774-chn-vssheets.dgn  
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 DESIGNED - J.V.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 01/21/2021  
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PLOT SCALE = \$SCALE\$  
 PLOT DATE = 1/22/2021

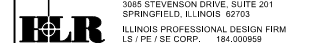
STATE OF ILLINOIS  
 FORD COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 2 OF 10 SHEETS STA. 91+60.00 TO STA. 91+75.00

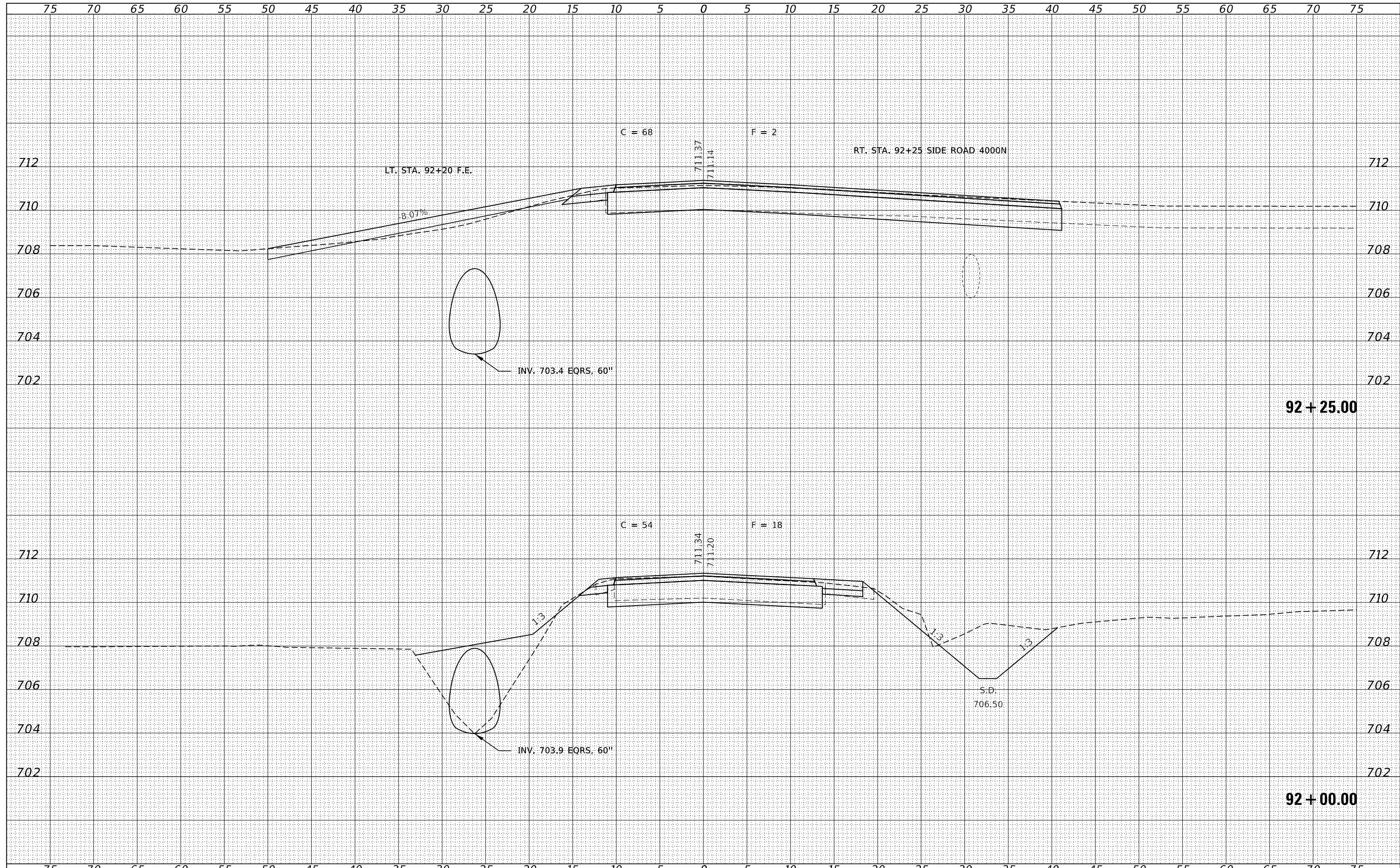
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1351	17-00138-00-BR	FORD	27	19

CONTRACT NO. 87740  
 ILLINOIS FED. AID PROJECT RENR(721)



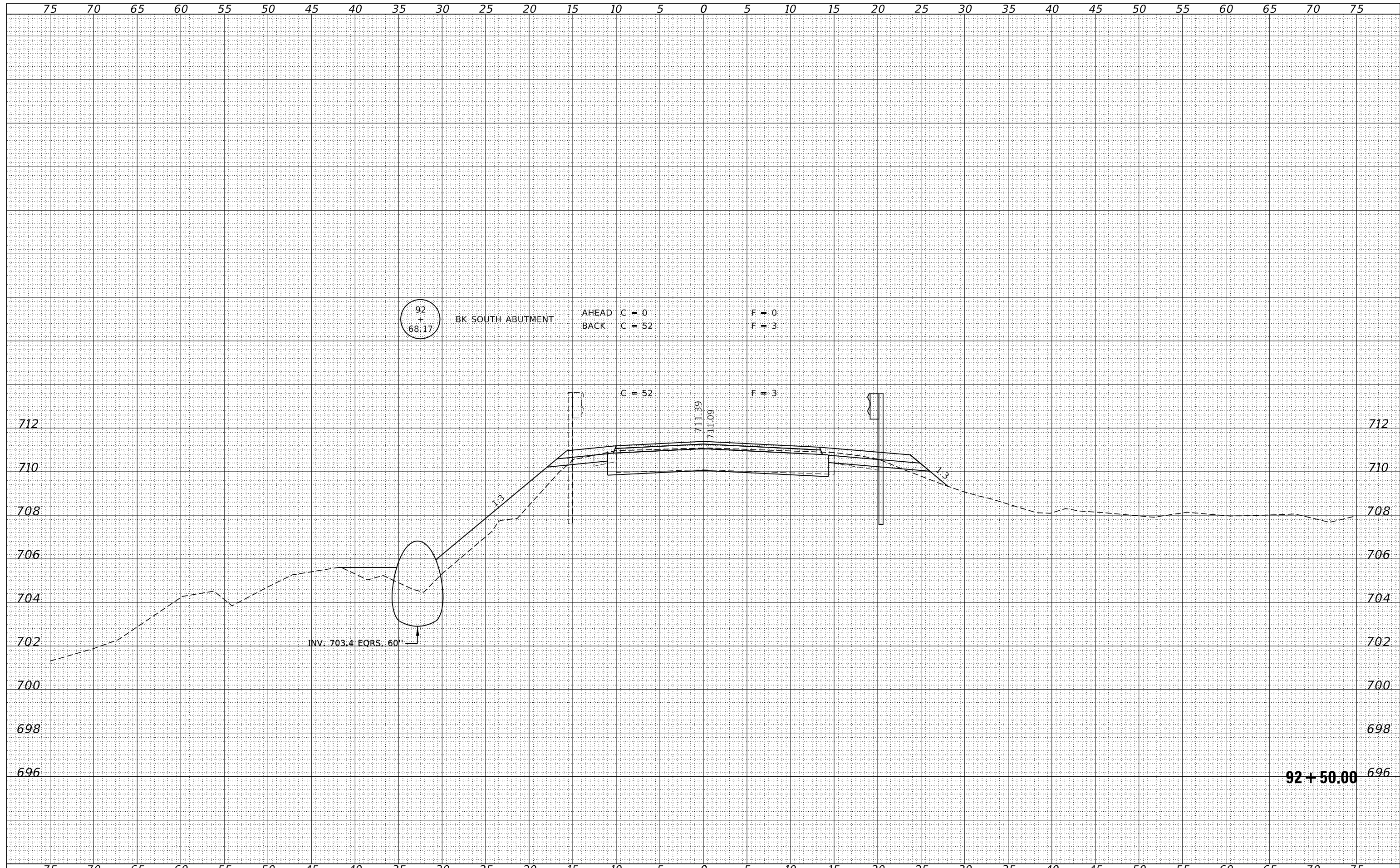
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FINAL SURVEY	
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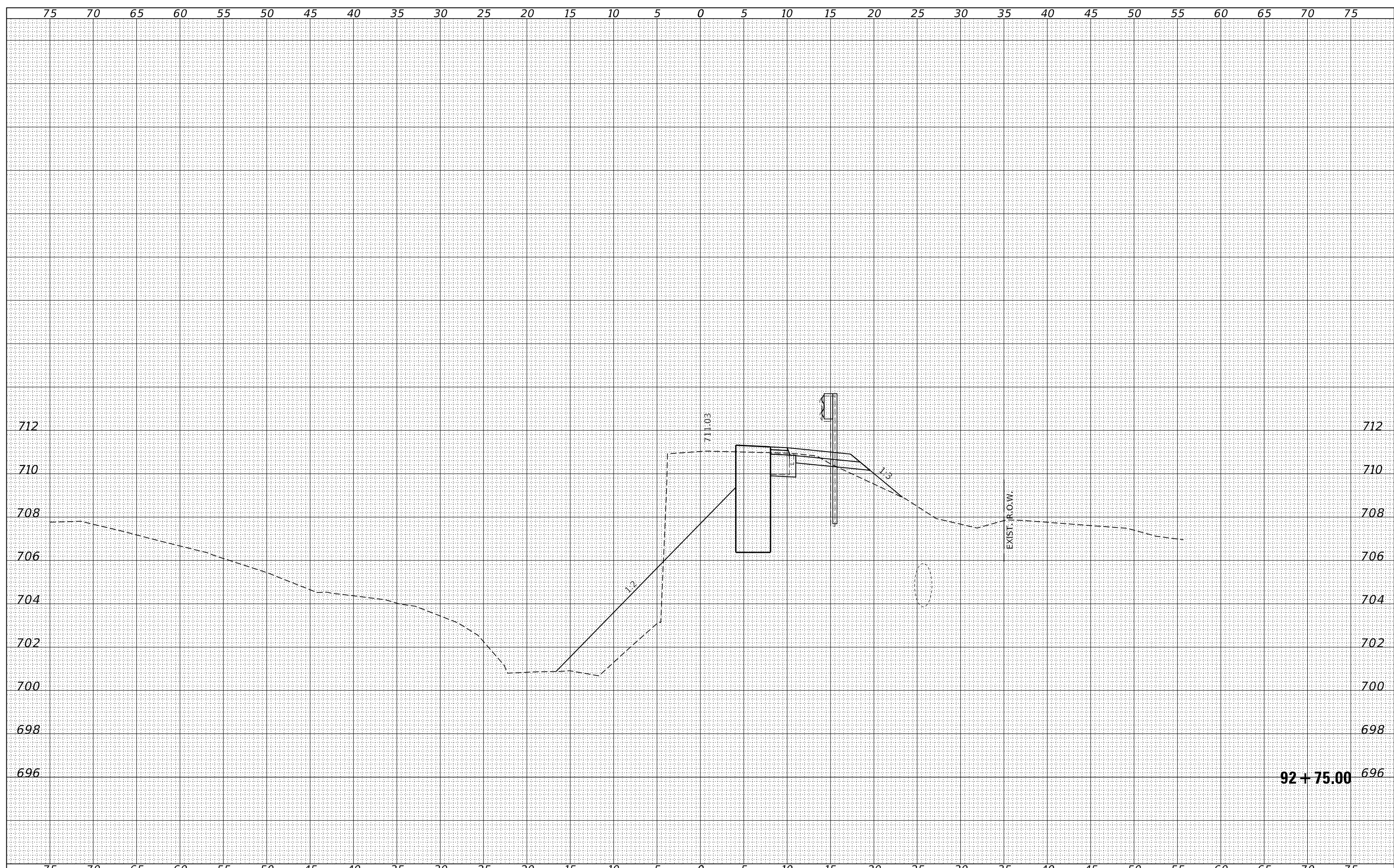
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184-009958	PLOT SCALE = \$SCALES	DRAWN - T.W.K.	REVISED -		1351	17-00138-00-BR	FORD	27	21			
PLOT DATE = 1/22/2021	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V		SHEET NO. 4	OF 10 SHEETS	STA. 92+50.00	TO STA. 92+50.00	CONTRACT NO. 87740			
DATE - 01/21/2021	REVISED -	ILLINOIS FED. AID PROJECT RENR(721)										

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

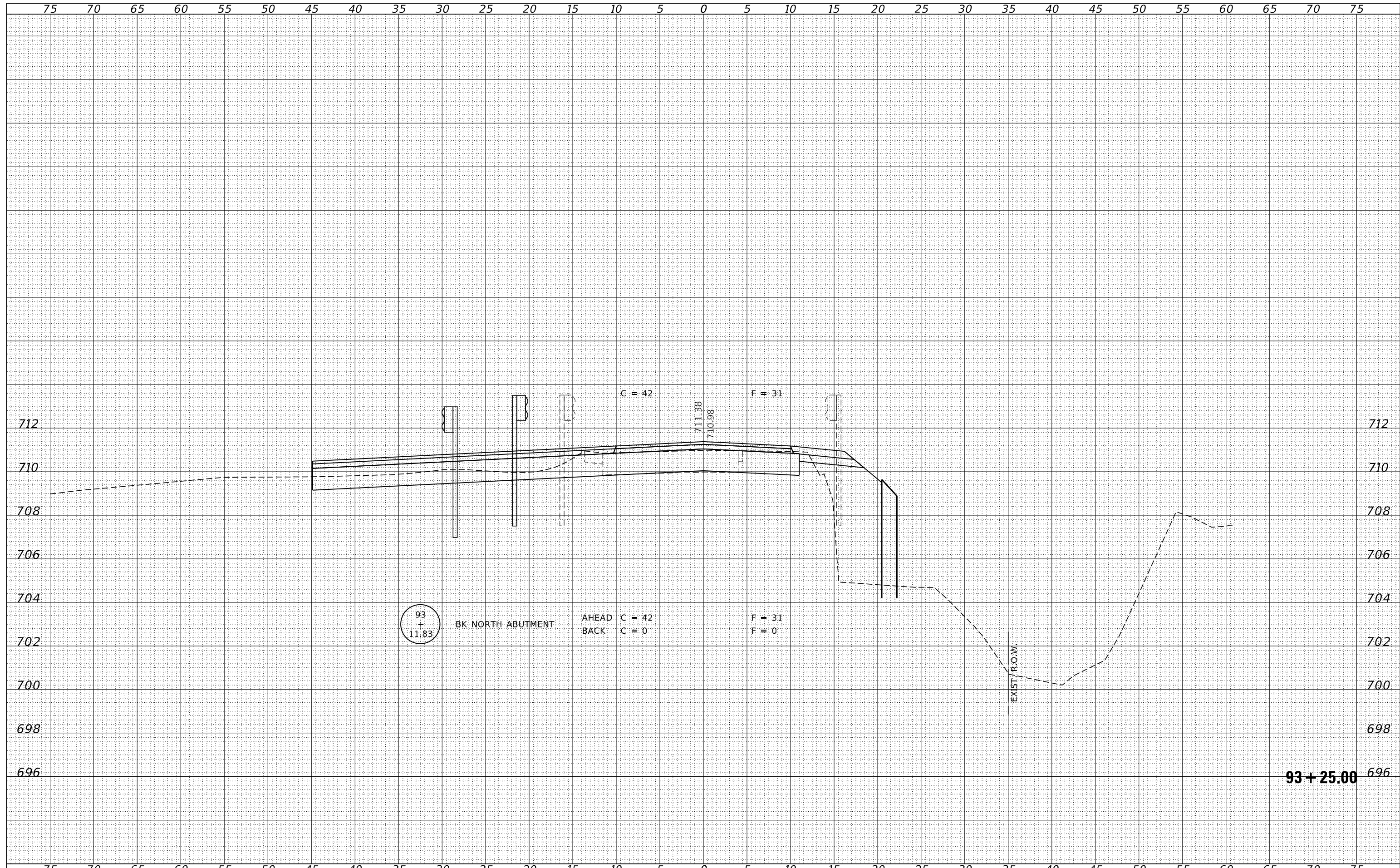


**92 + 75.00**

FILE NAME = 190774-ehf-xssheets.dgn	USER NAME = rmosck	DESIGNED - J.V.F.	REvised -	<b>STATE OF ILLINOIS FORD COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-009958					DRAWN - T.W.K.	REvised -	1351	17-00138-00-BR	FORD	27	22	
PLOT SCALE = \$\$SCALE\$					CHECKED - S.W.M.	REvised -	CONTRACT NO. 87740					
PLOT DATE = 1/22/2021					DATE - 01/21/2021	REvised -	SCALE: 5H:2V	SHEET NO. 5 OF 10 SHEETS	STA. 92+75.00 TO STA. 92+75.00	ILLINOIS FED. AID PROJECT RENR(721)		

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FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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FILE NAME = 190774-cht-xssheets.dgn  
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 DATE - 01/21/2021  
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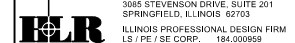
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**STATE OF ILLINOIS**  
**FORD COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

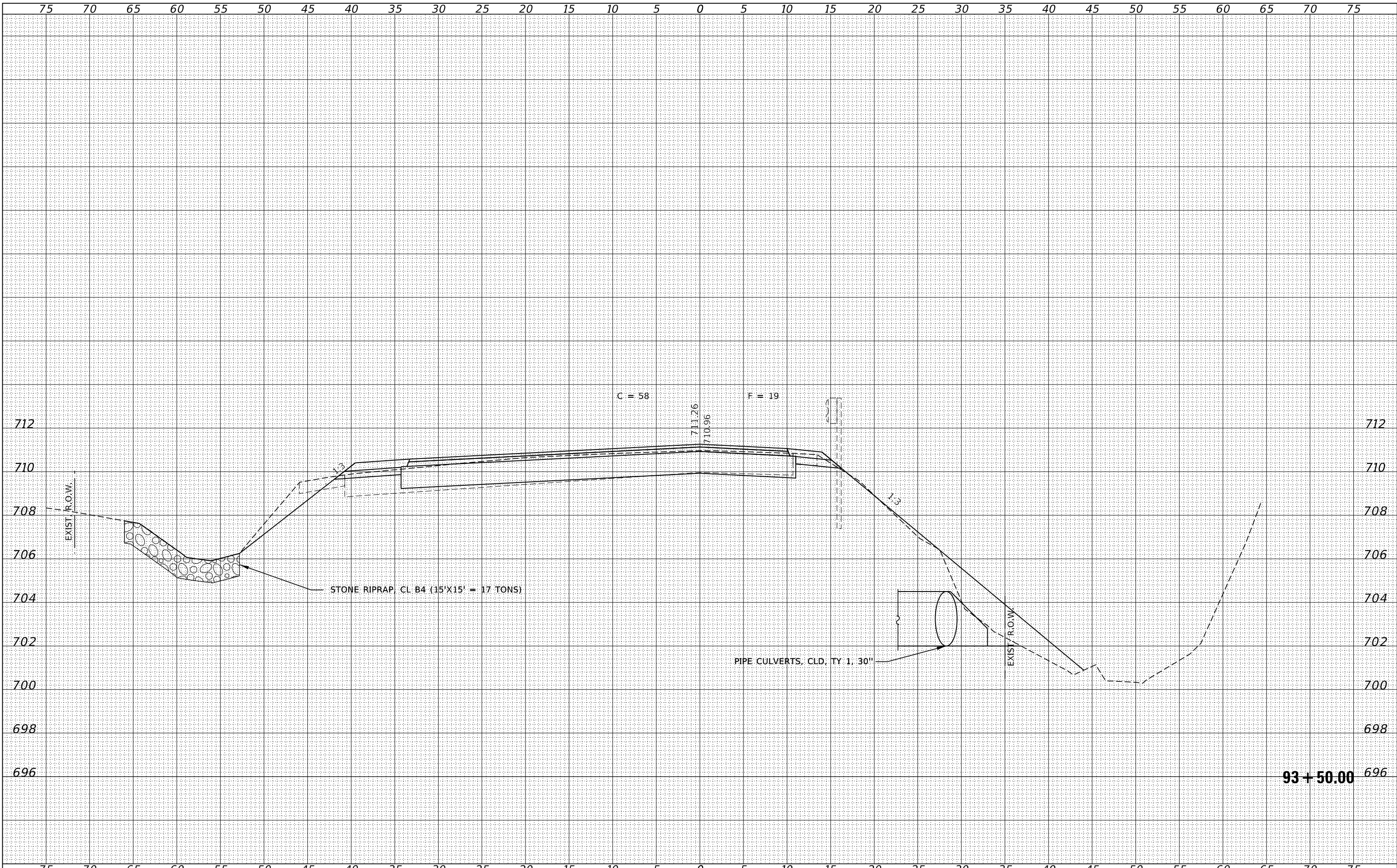
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1351	17-00138-00-BR	FORD	27	23
CONTRACT NO. 87740				
ILLINOIS FED. AID PROJECT RENR(721)				



BY	DATE
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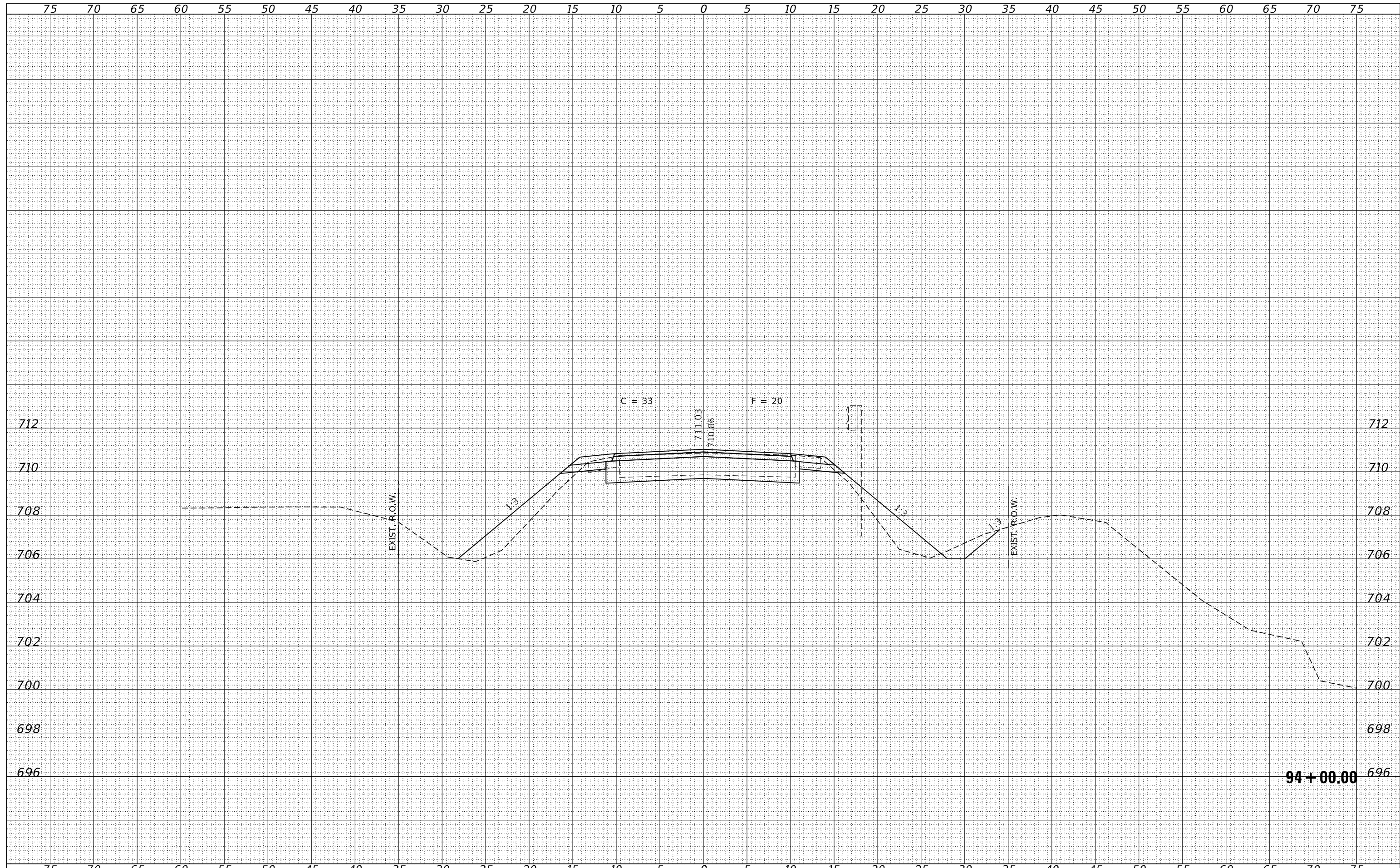


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				SCALE: 5H:2V SHEET NO. 7 OF 10 SHEETS STA. 93+50.00 TO STA. 93+50.00		ILLINOIS FED. AID PROJECT RENR(721)					

**HAMPTON, LENZINI AND RENWICK, INC.**  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184-000958

93 + 50.00



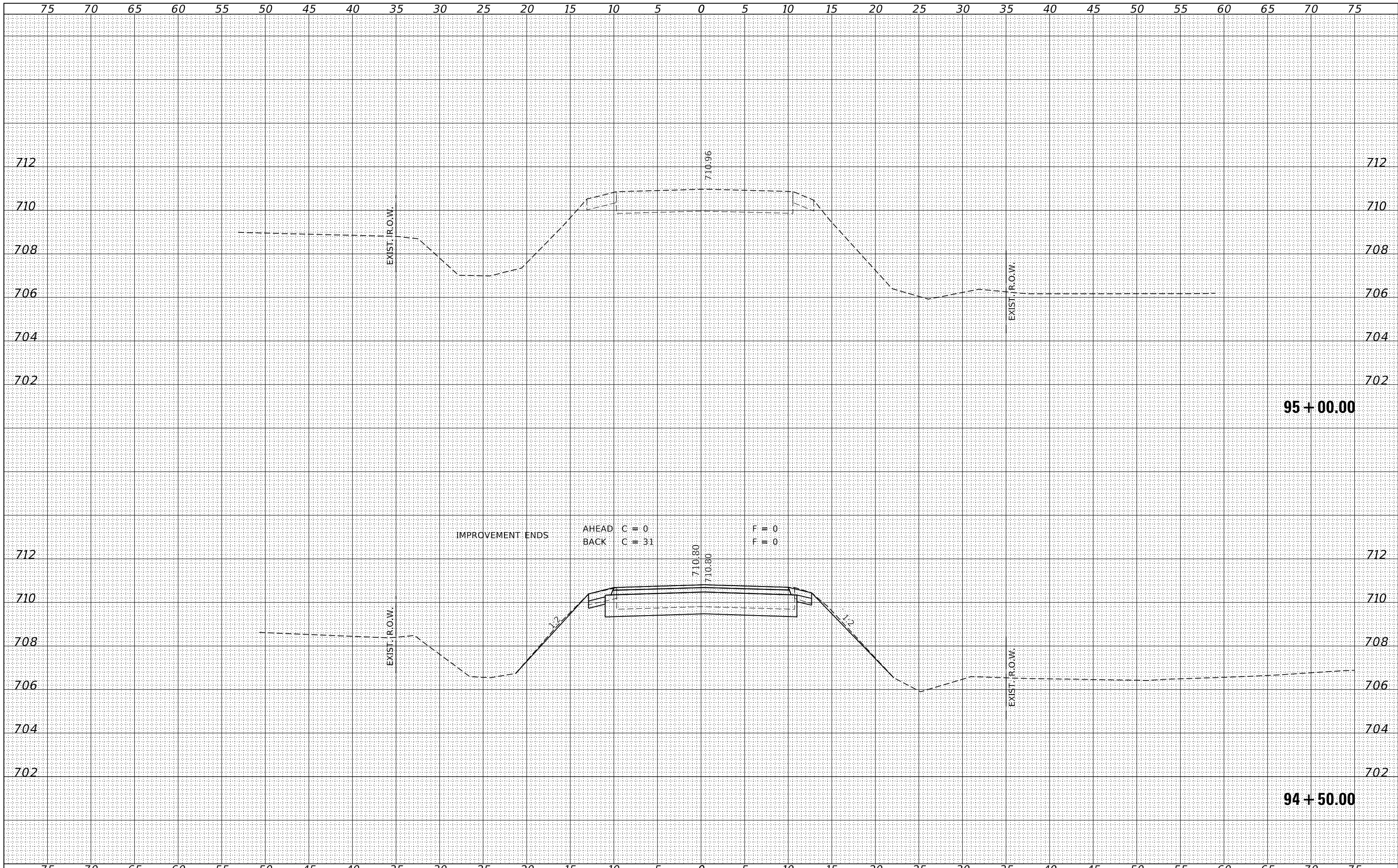


BY	DATE
FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

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

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NOTE BOOK AREAS CHECKED	

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 DESIGNED - J.W.F.  
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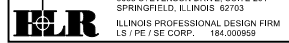
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 REVISION 2 | |  
 REVISION 3 | |  
 REVISION 4 | |

**STATE OF ILLINOIS  
 FORD COUNTY HIGHWAY DEPARTMENT**

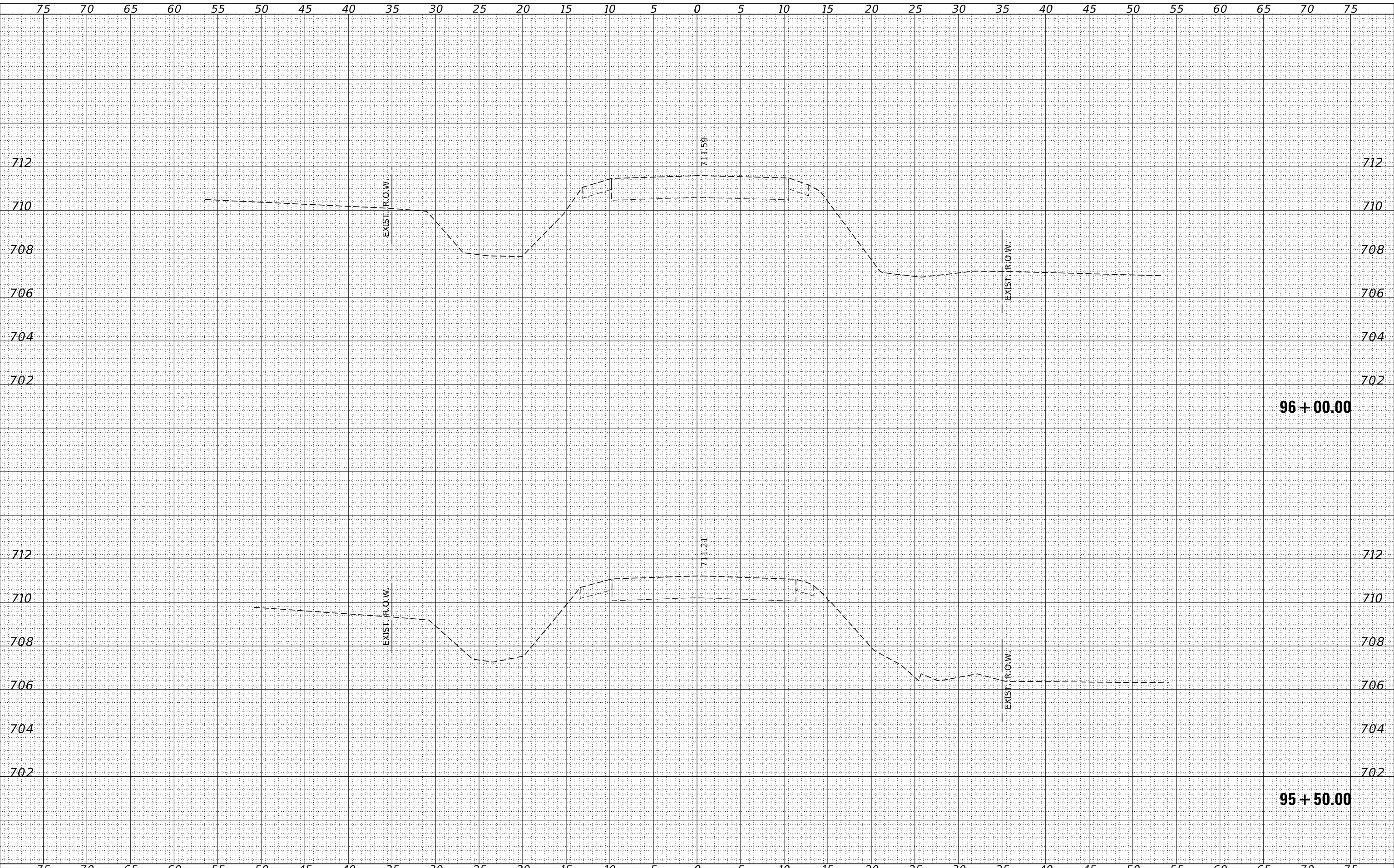
**STATION CROSS SECTIONS**

SCALE: 5H:2V    SHEET NO. 9 OF 10 SHEETS    STA. 94+50.00 TO STA. 95+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1351	17-00138-00-BR	FORD	27	26
CONTRACT NO. 87740				
ILLINOIS FED. AID PROJECT RENR(721)				



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 CHECKED - S.W.M.  
 DATE - 01/21/2021  
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 PLOT DATE = 1/22/2021

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STATE OF ILLINOIS  
 FORD COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 10 OF 10 SHEETS STA. 95+50.00 TO STA. 96+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1351	17-00138-00-BR	FORD	27	27
CONTRACT NO. 87740				
ILLINOIS FED. AID PROJECT RENR(721)				



HAMPTON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 L.S. / P.E. / S.E. CORP. 184-000958