

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 244	17-06123-00-BR	DeKALB	22	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 87767	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	SCHEDULE OF QUANTITIES
4.	TYPICAL CROSS SECTIONS
5.	PLAN AND PROFILE
6-16.	BRIDGE PLANS
17.	EXISTING BRIDGE PLANS
18-22.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-04	NAME PLATE FOR BRIDGES
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM
OFF SYSTEM BRIDGE

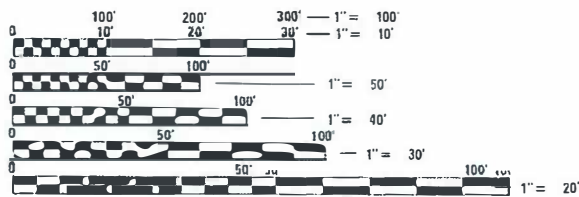
PROJECT X6FH(897)
SECTION 17-06123-00-BR
GENOA ROAD DISTRICT
DeKALB COUNTY
T.R. 244 / NEW LEBANON ROAD
PROPOSED STRUCTURE NO. 019-4214
C-93-002-22

UTILITIES

AT&T
1000 COMMERCE DRIVE
OAK BROOK, IL 60523

COMED
PUBLIC RELOCATION DEPT.,
ONE LINCOLN CENTRE, SUITE 600
OAKBROOK TERRACE, IL 60181

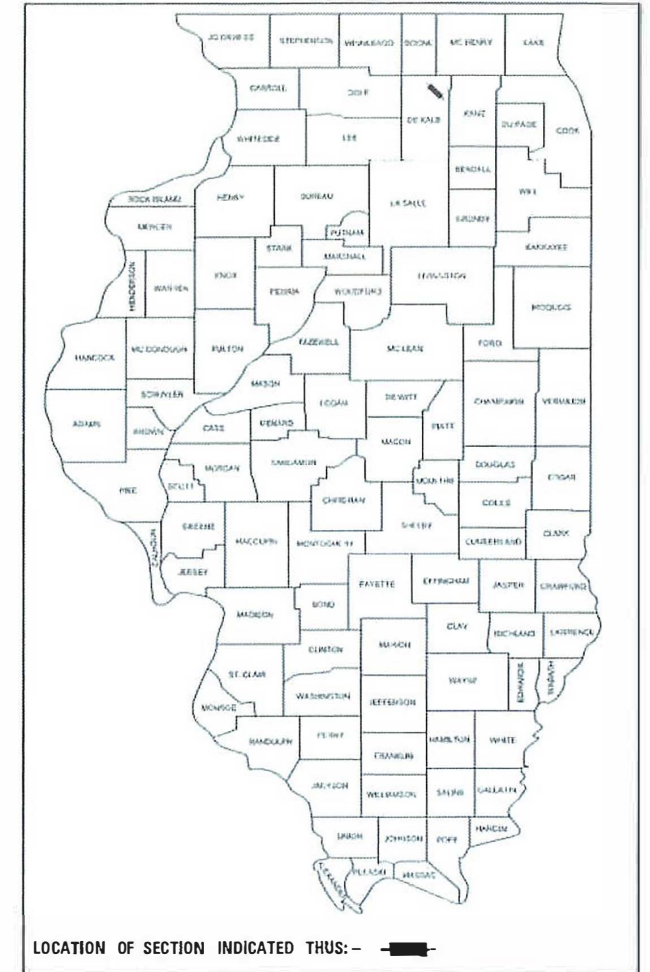
NICOR GAS
1844 FERRY ROAD
NAPERVILLE, IL 60563



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: LOCAL ROAD
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 150 ADT

CONTRACT NO. 87767 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED *May 25, 2021*
COUNTY ENGINEER

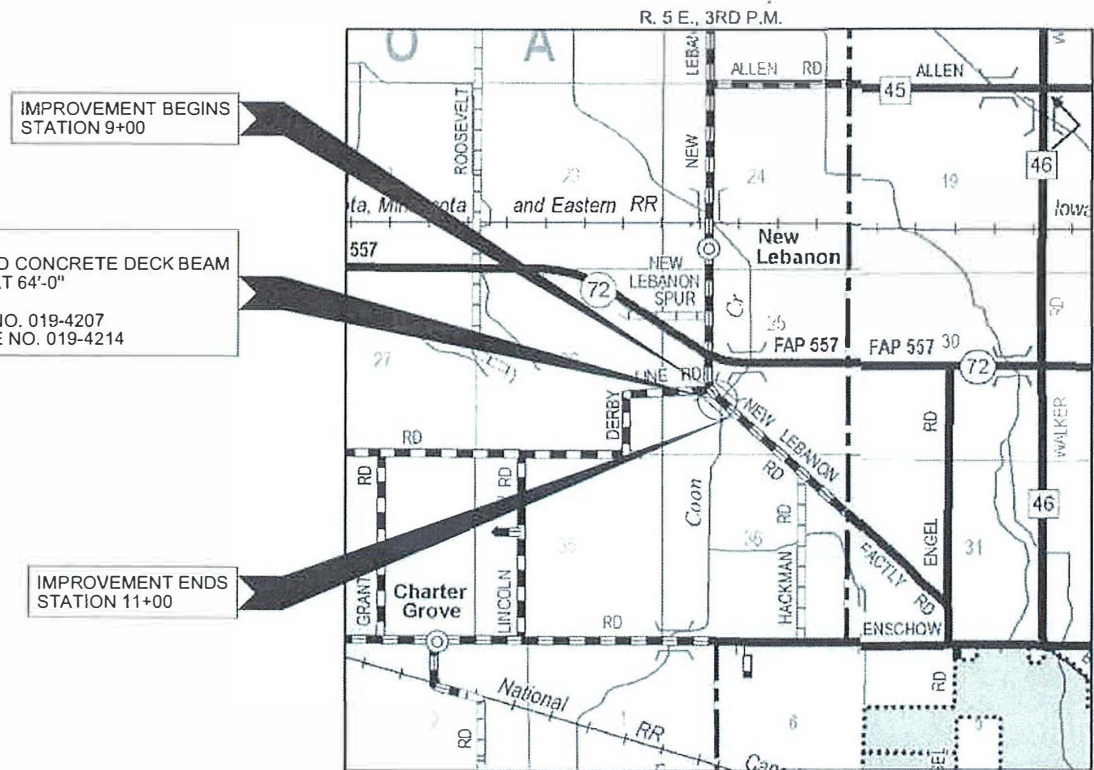
PASSED *May 28, 2021*
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
May 28, 2021
REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WARNING

CALL 811
BEFORE YOU DIG
DIG NO: A0480510



LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE
NET LENGTH OF SECTION = 200 FEET = 0.038 MILES

DATE: 05/21/2021

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3100 www.hlrengineering.com

184 000933
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2021 PROJECT NUMBER: 21.0049.130 DATE: 05/21/2021

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	227
20300100	CHANNEL EXCAVATION	CU YD	150
25100630	EROSION CONTROL BLANKET	SQ YD	593
28100207	STONE RIPRAP, CLASS A4	TON	361
28200200	FILTER FABRIC	SQ YD	297
35100100	AGGREGATE BASE COURSE, TYPE A	TON	323
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	17
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	645
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	65
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	41
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	24
48101200	AGGREGATE SHOULDERS, TYPE B	TON	30
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	29.8
50300260	BRIDGE DECK GROOVING	SQ YD	203
50300300	PROTECTIVE COAT	SQ YD	209
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,792
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6,720
50900205	STEEL RAILING, TYPE S1	FOOT	124
51200957	FURNISHING METAL SHELL PILES 12"x0.250"	FOOT	288
51202305	DRIVING PILES	FOOT	288
51203200	TEST PILE METAL SHELLS	EACH	1
51204650	PILE SHOES	EACH	10
51500100	NAME PLATES	EACH	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	34
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	46
60100935	PIPE DRAINS 10"	FOOT	10
67100100	MOBILIZATION	L SUM	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	124
X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	120

^ SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	203
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

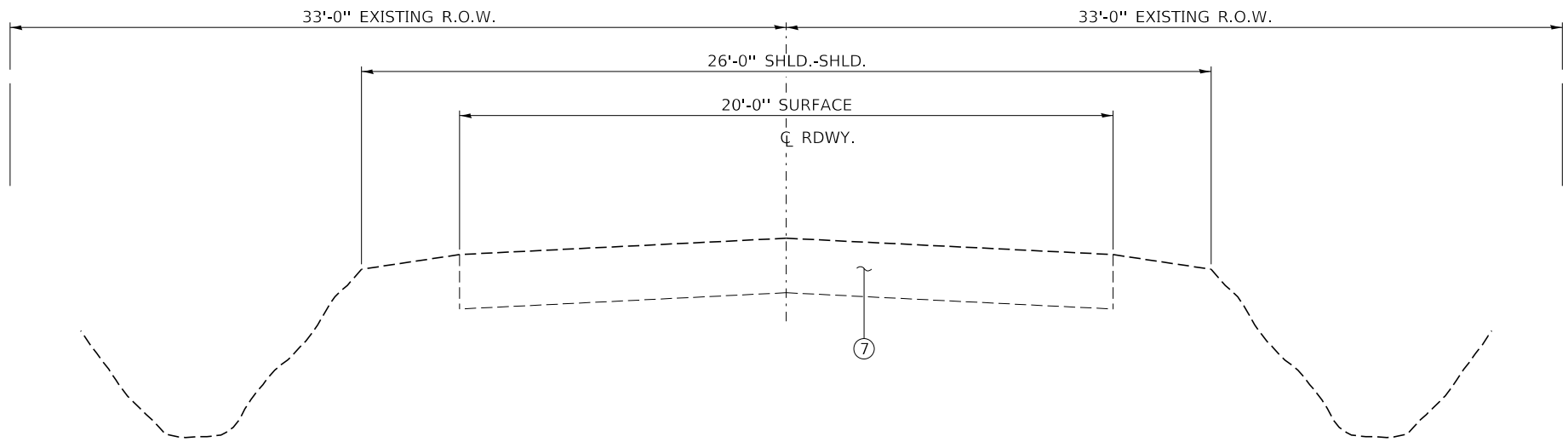
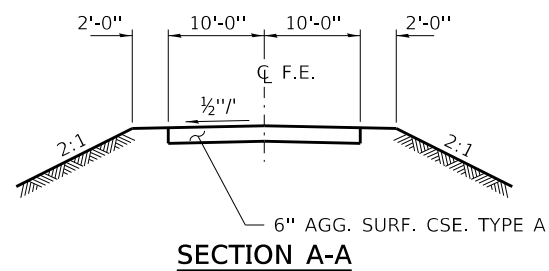
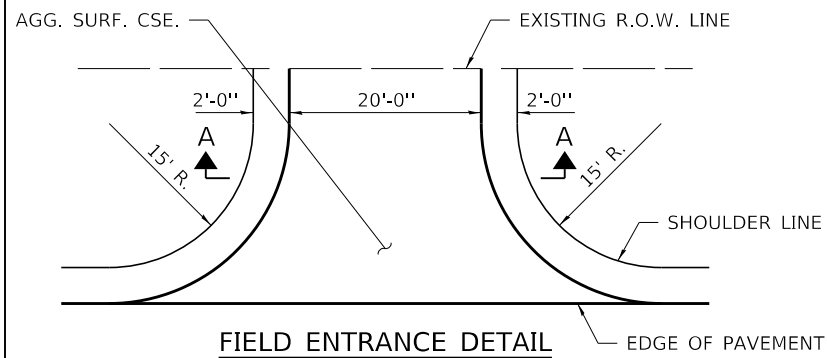
^ SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

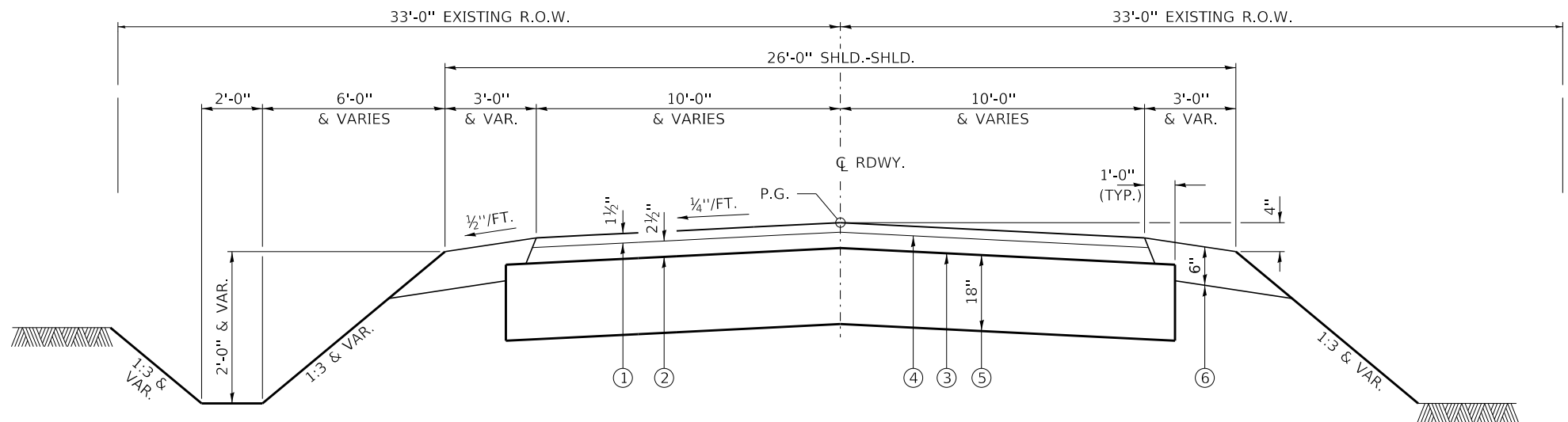
GENERAL NOTES

- 1) ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016", (HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE DOCUMENTS.
 - 2) ALL CLEARING, GRUBBING, FENCE REMOVAL, PAVEMENT REMOVAL, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
 - 3) 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.
 - 4) ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT.
 - 5) THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON 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.
 - 6) THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
 - 7) THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

AGGREGATE BASE COURSE	2.05 TON/CU YD
HOT MIX ASPHALT	112 LBS/SQ YD./INCH THICKNESS
POROUS GRANULAR EMBANKMENT	2.0 TON/CU YD
- BITUMINOUS MATERIALS RATES**
- | SURFACE TYPE | RESIDUAL RATE |
|-------------------------------|----------------|
| AGGREGATE BASE | 0.250 LB/SQ FT |
| MILLED HMA OR PCC (TACK COAT) | 0.050 LB/SQ FT |
| EXISTING PAVEMENT (TACK COAT) | 0.050 LB/SQ FT |
| TACK COAT (BETWEEN LIFTS) | 0.025 LB/SQ FT |
- 8) THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE TOPSOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING TOP SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
 - 9) THE AREA TO BE SEEDED AND COVERED WITH EROSION CONTROL BLANKET SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.
 SEEDING, CLASS 2 (SPECIAL) = 0.2 ACRES
 EROSION CONTROL BLANKET = 593 SQ YD
 - 10) ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
 - 11) COMMITMENTS:
 1.) A BAT ASSESSMENT SHALL BE CONDUCTED IF WORK OCCURS TO EXISTING STRUCTURE AFTER SEPTEMBER 16, 2021.



EXISTING TYPICAL CROSS SECTION
STA. 9+00 TO 11+00



PROPOSED TYPICAL CROSS SECTION
STA. 9+00 TO 11+00

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TRANSITIONS FROM THE PROPOSED SURFACE TO THE EXISTING SURFACE ARE TO BE CONSTRUCTED FROM STA. 9+00 TO 9+50 AND STA. 10+50 TO STA. 11+00. SEE SHEET 6 FOR TRANSITION AT BRIDGE.

LEGEND

- ① HMA SURFACE COURSE, IL-9.5, MIX C, N50 (1½" THICKNESS)
- ② HMA BINDER COURSE, IL-19.0, N50 (2½" THICKNESS)
- ③ BITUMINOUS MATERIALS (PRIME COAT)
- ④ BITUMINOUS MATERIALS (TACK COAT)
- ⑤ AGGREGATE BASE COURSE, TYPE A (18")
- ⑥ AGGREGATE SHOULDERS, TYPE B (6")
- ⑦ EXISTING OIL & CHIP SURFACE ON AGGREGATE BASE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATIONS(S)	TR 244 / New Lebanon Rd	TR 244 / New Lebanon Rd
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ 50 Gyr.	4% @ 50 Gyr.
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	NONE
DENSITY TEST METHOD	LR 1030	LR 1030
MIXTURE WEIGHT:	112 LBS / SY / INCH THICKNESS	112 LBS / SY / INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

FILE NAME = 210049-shit-tysec@ons.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -
PLOT DATE = 09/07/2021		CHECKED - S.W.M.	REVISED -
		DATE - 09/07/2021	REVISED -

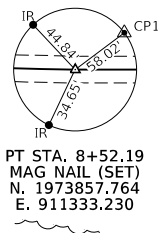
STATE OF ILLINOIS
DeKALB COUNTY HIGHWAY DEPARTMENT

TYPICAL CROSS SECTIONS	
SCALE:	SHEET NO. 1 OF 1 SHEETS
STA. 9+00	TO STA. 11+00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-06123-02-BR	DeKALB	22	4
GENOA ROAD DISTRICT		CONTRACT NO. 87767		
ILLINOIS		FED. AID PROJECT X6FH(897)		

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

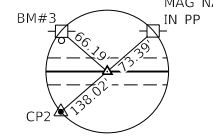


CURVE DATA
 PI STA. 7+22.62
 $\Delta = 15^\circ 43' 44''$ (LT)
 $D = 6^\circ 01' 52''$
 $T = 131.22'$
 $R = 950.00'$
 $L = 260.79'$
 $E = 9.02'$
 PC STA. 5+91.39
 PT STA. 8+52.19
 NO S.E.

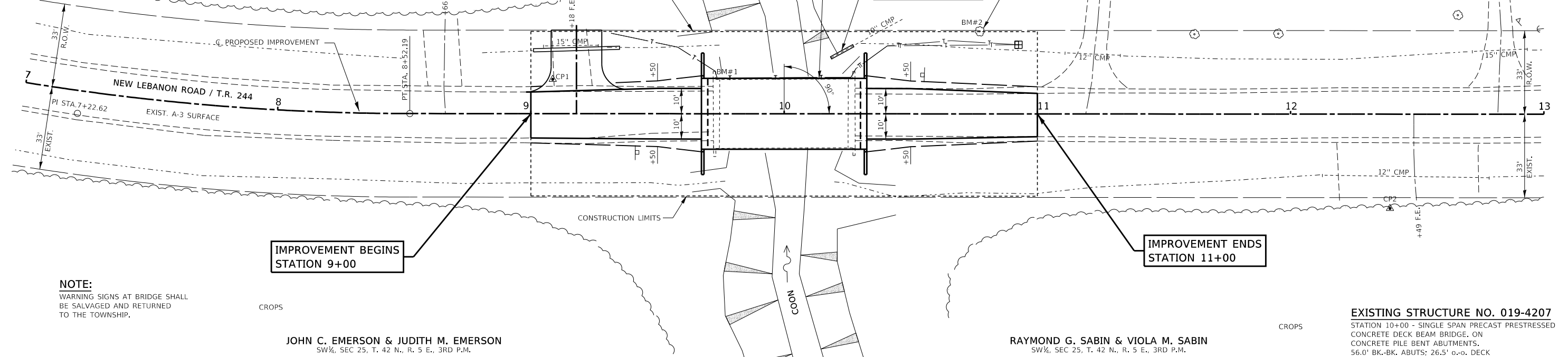
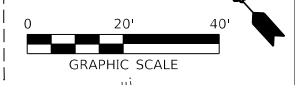
92131 LLC
 SW 1/4, SEC 25, T. 42 N., R. 5 E., 3RD P.M.

STA. 9+18
 CONSTRUCT 20' F.E.
 PIPE CULVERTS, CLD, TY1, 15"
 LENGTH = 34 FOOT
 U.S.F.L. = 846.3
 D.S.F.L. = 846.2
 EXISTING CMP TO BE REMOVED

RAYMOND G. SABIN & VIOLA M. SABIN
 SW 1/4, SEC 25, T. 42 N., R. 5 E., 3RD P.M.



P.O.T. STA. 13+72.14
 MAG NAIL (SET)
 N. 1973508.424
 E. 911718.342



NOTE:
 WARNING SIGNS AT BRIDGE SHALL
 BE SALVAGED AND RETURNED
 TO THE TOWNSHIP.

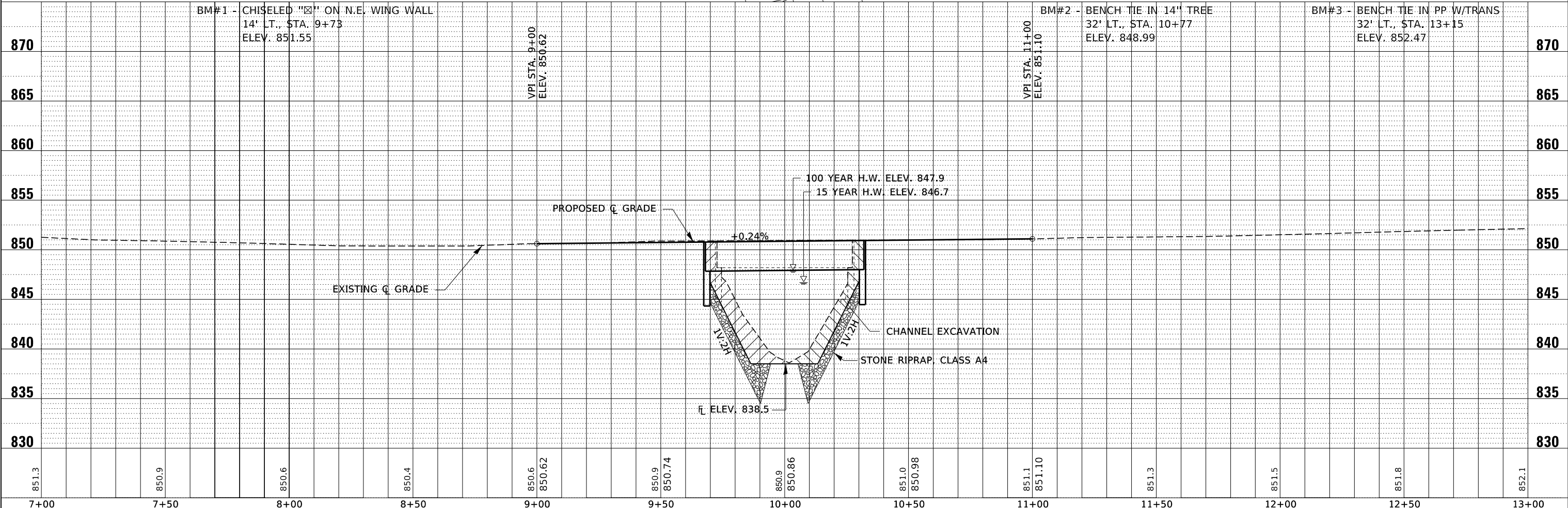
IMPROVEMENT BEGINS
 STATION 9+00

IMPROVEMENT ENDS
 STATION 11+00

JOHN C. EMERSON & JUDITH M. EMERSON
 SW 1/4, SEC 25, T. 42 N., R. 5 E., 3RD P.M.

RAYMOND G. SABIN & VIOLA M. SABIN
 SW 1/4, SEC 25, T. 42 N., R. 5 E., 3RD P.M.

EXISTING STRUCTURE NO. 019-4207
 STATION 10+00 - SINGLE SPAN PRECAST PRESTRESSED
 CONCRETE DECK BEAM BRIDGE. ON
 CONCRETE PILE BENT ABUTMENTS.
 56.0' BK.-BK. ABUTS; 26.5' o.-o. DECK



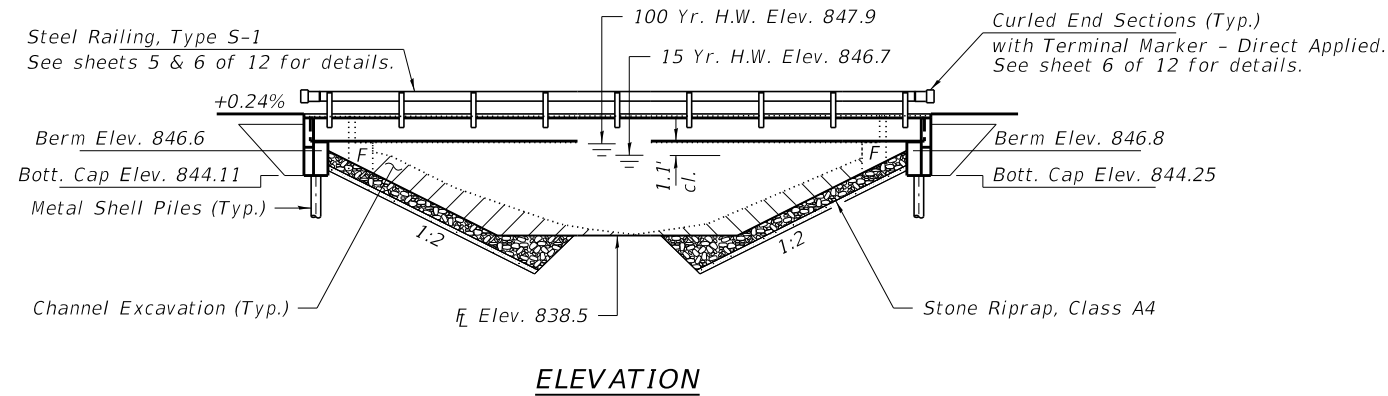
FILE NAME = 210049-eh-planprLdgn	USER NAME = rmosick	DESIGNED - S.A.A.	REVISED -	STATE OF ILLINOIS DEKALB COUNTY HIGHWAY DEPARTMENT	PLAN & PROFILE NEW LEBANON ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.	3065 STEVENSON DRIVE, SUITE 201	DRAWN - T.W.K.	REVISED -			244	17-06123-00-BR	DEKALB	22	5
SPRINGFIELD, ILLINOIS 62703	ILLINOIS PROFESSIONAL DESIGN FIRM	CHECKED - I.P.N.	REVISED -			GENOA ROAD DISTRICT		CONTRACT NO. 87767		
LS / PE / SE CORP. 184.000959	DATE - 09/07/2021	REVISOR -	REVISED -			SCALE: 5V:20H		SHEET NO. 1 OF 1 SHEETS		STA. 7+00.00 TO STA. 13+00.00

BENCHMARK: Chiseled " X " on NE wingwall 14.0' Lt. Sta. 9+73, Elev. 851.55

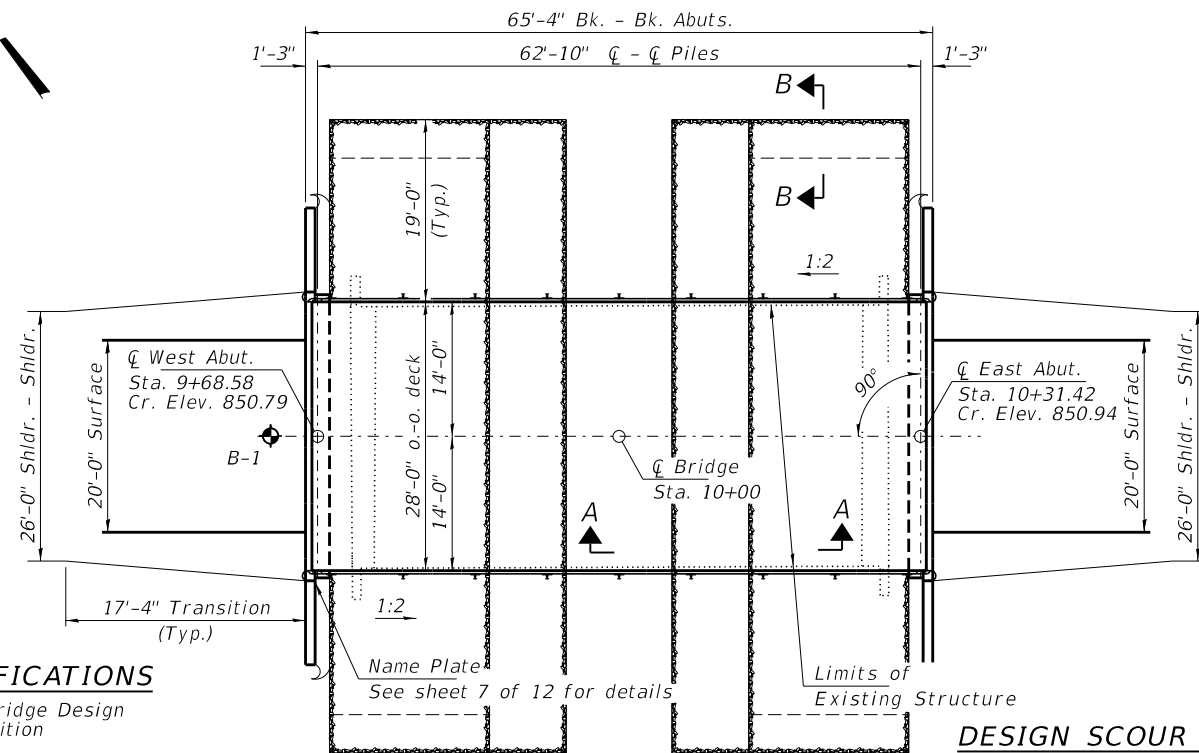
EXISTING STRUCTURE NO. 019-4207: Sta. 10+00 - Single span precast prestressed concrete deck beam bridge on spill thru concrete pile bent abutments. 56.0' bk.-bk. Abuts; 26.5' o.-o. deck.

Structure closed to traffic during construction.

No Salvage



ELEVATION



PLAN

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

f'c = *5,000 psi (Wearing Surface)
f'ci = 3,500 psi (Substructure)
fy = 60,000 psi (Reinf.)

*Wearing surface concrete shall have a 28-day mix design with a compressive strength of 5,000 psi.

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2"Ø low lax. strands)
fpbt = 201,960 psi (1/2"Ø low lax. strands)
fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.084g
Design Spectral Acceleration at 0.2 sec. (SD5) = 0.147g
Soil Site Class = D

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	769	240	330	846.3	0.1	0.1	846.4	846.4
Base	15	870	260	350	846.7	0.1	0.1	846.8	846.8
Scour Check	100	1,330	330	420	847.9	0.3	0.3	848.2	848.2
Max. Calc.	200	1,510	340	430	848.2	0.5	0.5	848.7	848.7
	500	1,740	340	430	848.6	0.7	0.5	849.3	849.1

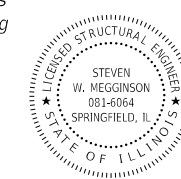
Existing Low Grade Elev. 850.5 at Sta. 8+50
Proposed Low Grade Elev. 850.5 at Sta. 8+50
10 Year Velocity through Existing Bridge = 3.2 fps 10 Year Velocity through Proposed Bridge = 2.3 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elev. (ft.)		Item
	W. Abut.	E. Abut.	
Q100	844.11	844.25	113
Q200	844.11	844.25	
Design	844.11	844.25	
Check	844.11	844.25	8

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 09/07/2021
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2022

STATE OF ILLINOIS
DEKALB COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION
STRUCTURE NO. 019-4214

SHEET NO. 1 OF 12 SHEETS

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 North Abutment or approved by the Engineer before ordering the remainder of piles.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
All bars to 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.

INDEX OF STRUCTURE SHEETS

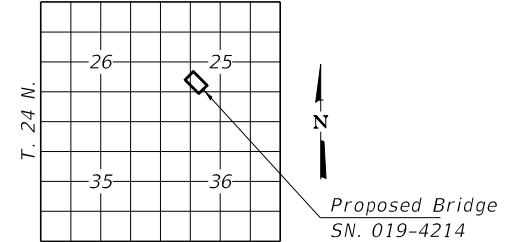
1. General Plan & Elevation
2. 27"x48" PPC Deck Beam
3. 27"x48" PPC Deck Beam Details
4. Superstructure
5. Superstructure Details
6. Steel Railing, Type S-1
7. West Abutment
8. East Abutment
9. Metal Shell Pile Details
- 10-11. Borings
12. Existing Bridge Plans

COON CREEK
BUILT 2021 BY
DEKALB COUNTY
SEC. 17-06123-00-BR
GENOA ROAD DISTRICT
STR. NO. 019-4214
LOADING HL-93

NAME PLATE

See Std. 515001

R. 5 E., 3RD P.M.



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			150
Stone Riprap, Class A4	Ton			361
Filter Fabric	Sq. Yd.			297
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		29.8	29.8
Bridge Deck Grooving	Sq. Yd.		203	203
Protective Coat	Sq. Yd.		6	209
Precast Prestressed Conc. Deck Beams (27" Depth)	Sq. Ft.	1,792		1,792
Reinforcement Bars, Epoxy Coated	Pound	2,660	4,060	6,720
Steel Railing, Type S-1	Foot	124		124
Furnishing Metal Shell Piles 12"x0.250	Foot		288	288
Driving Piles	Foot		288	288
Test Pile Metal Shells	Each		1	1
Pile Shoes	Each		10	10
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq. Yd.		46	46
Pipe Underdrains for Structures 4"	Foot		124	124
Porous Granular Embankment, Special	Ton		120	120
Concrete Wearing Surface	Sq. Yd.	203		203

FILE NAME = 210049-shl-bridge.dgn
USER NAME =
DESIGNED - I.P.N.
CHECKED - S.W.M.
DRAWN - T.D.S.
CHECKED - S.W.M.
PLOT SCALE =
PLOT DATE = 9/7/2021

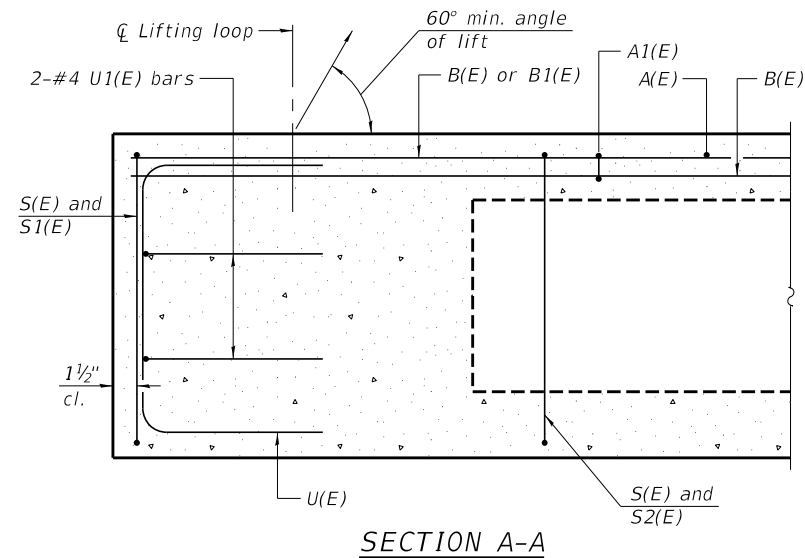
DESIGNED - I.P.N.
CHECKED - S.W.M.
DRAWN - T.D.S.
CHECKED - S.W.M.
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEKALB COUNTY HIGHWAY DEPARTMENT

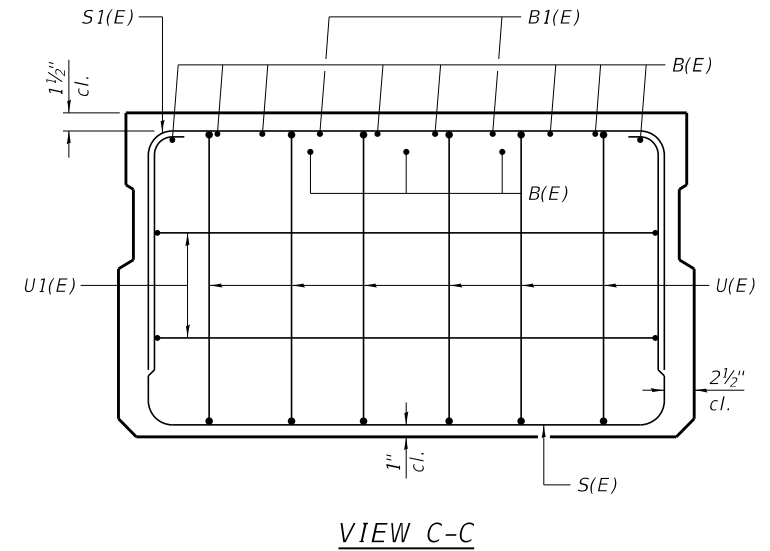
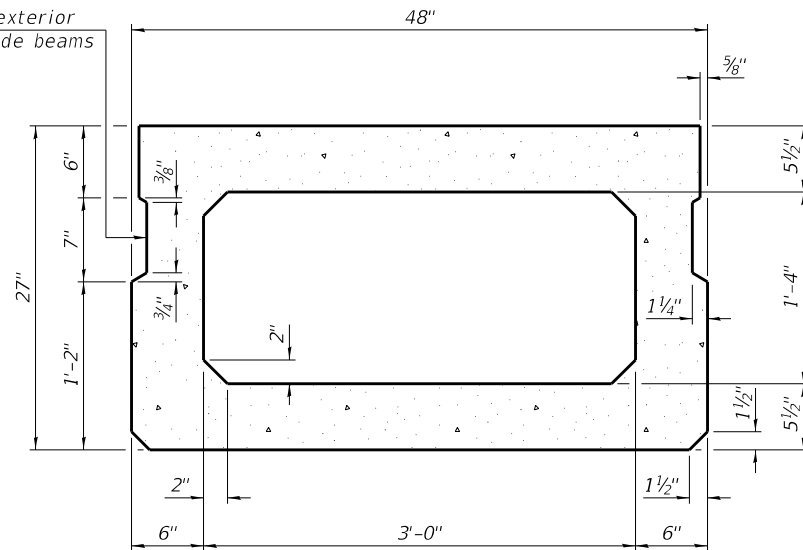
GENERAL PLAN & ELEVATION
STRUCTURE NO. 019-4214
SHEET NO. 1 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-06123-00-BR	DEKALB	22	6
GENOA ROAD DISTRICT		CONTRACT NO. 87767		

ILLINOIS FED. AID PROJECT



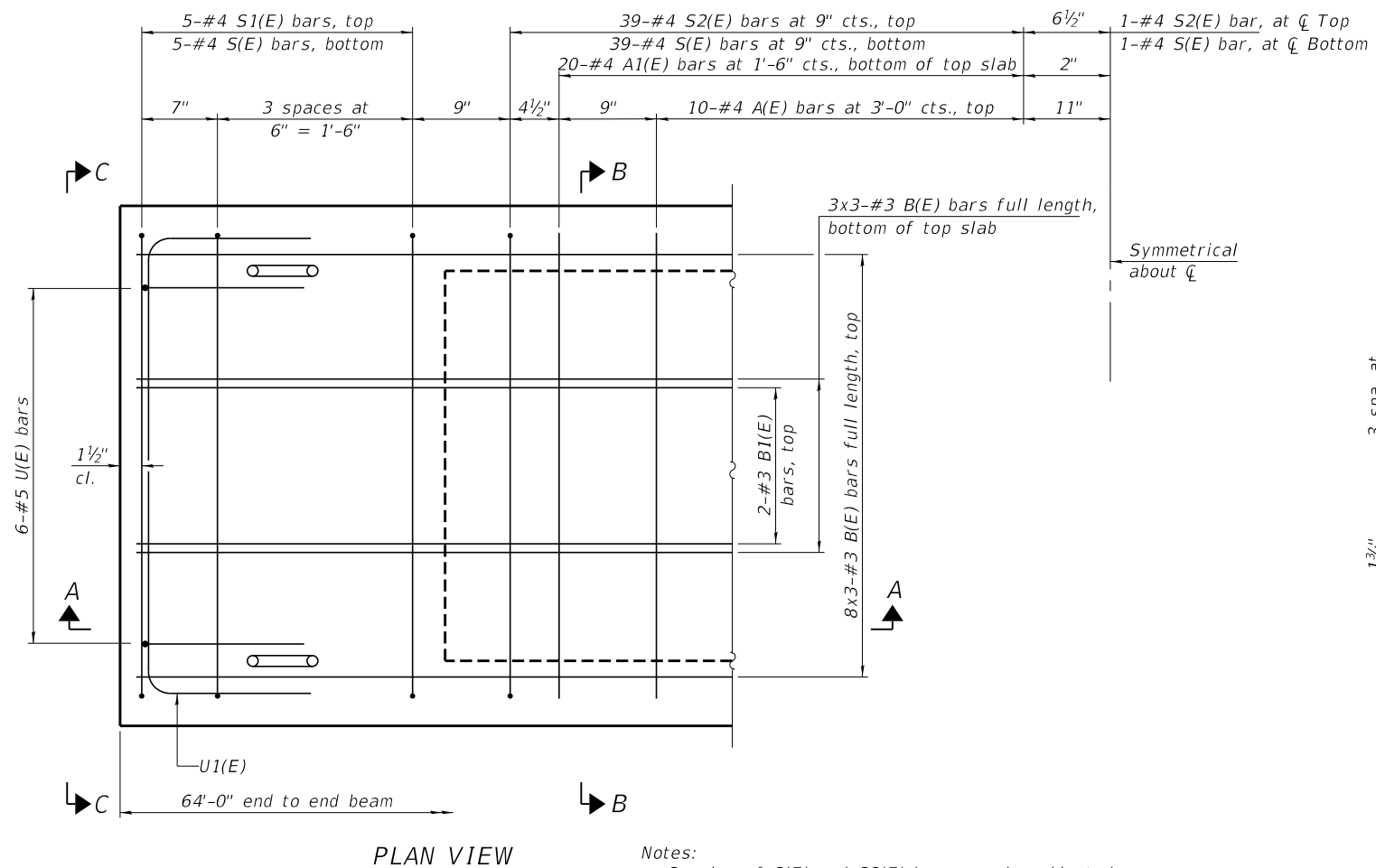
Omit key on exterior face of outside beams



SECTION A-A

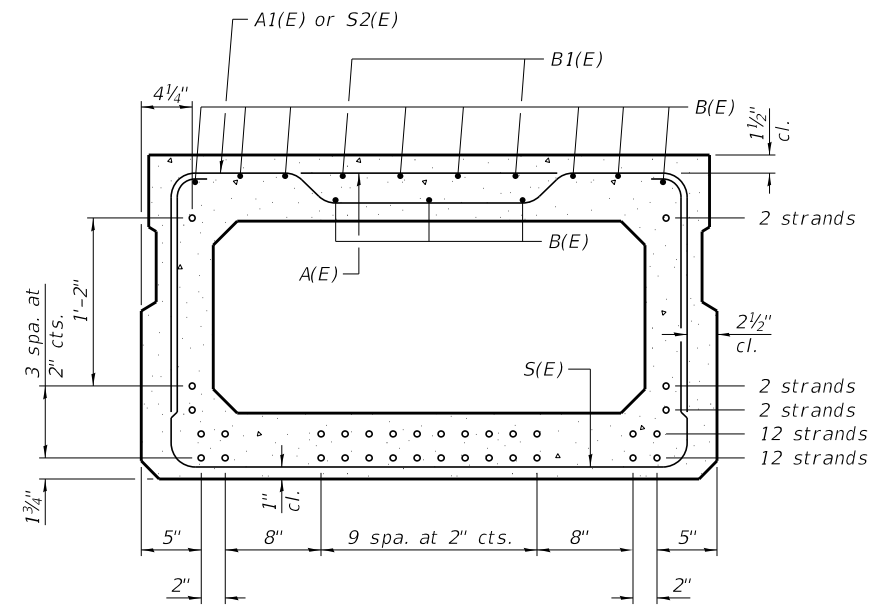
SECTION B-B
(Showing dimensions)

VIEW C-C



PLAN VIEW

Notes:
 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.
 Bars indicated thus 8x3-#3 etc. indicates 8 lines of bars with 3 lengths per line.



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)	20	#4	3'-7"	—
A1(E)	40	#4	3'-10"	—
B(E)	33	#3	22'-3"	—
B1(E)	4	#3	10'-0"	—
S(E)	89	#4	8'-5"	□
S1(E)	10	#4	6'-11"	□
S2(E)	79	#4	7'-2"	□
U(E)	12	#5	4'-6"	□
U1(E)	4	#4	6'-0"	□

Note:
 See sheet 3, 4 & 5 of 12 for additional details and Bill of Material.

MINIMUM BAR LAP
 #3 bar = 1'-6"

PD-2748-0 1-1-2020

FILE NAME = 210049-shl-bridge.dgn	USER NAME =	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
PLOT DATE = 9/7/2021		DRAWN - T.D.S.	REVISED -
		CHECKED - S.W.M.	REVISED -

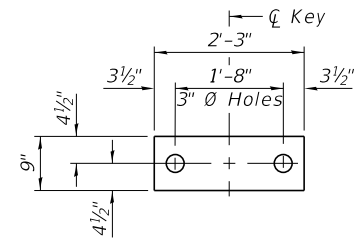
STATE OF ILLINOIS
 DEKALB COUNTY HIGHWAY DEPARTMENT

27" x 48" PPC DECK BEAM
 STRUCTURE NO. 019-4214

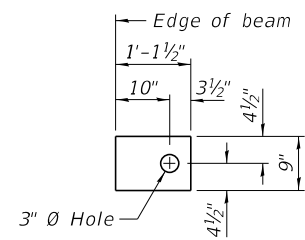
SHEET NO. 2 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-06123-00-BR	DEKALB	22	7
GENOA ROAD DISTRICT		CONTRACT NO. 87767		

ILLINOIS FED. AID PROJECT



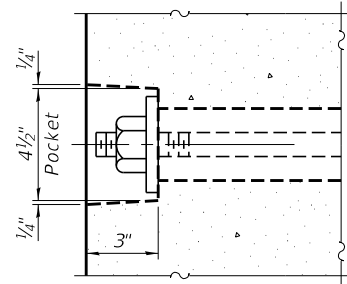
FABRIC BEARING PAD
(Interior - 12 req'd)



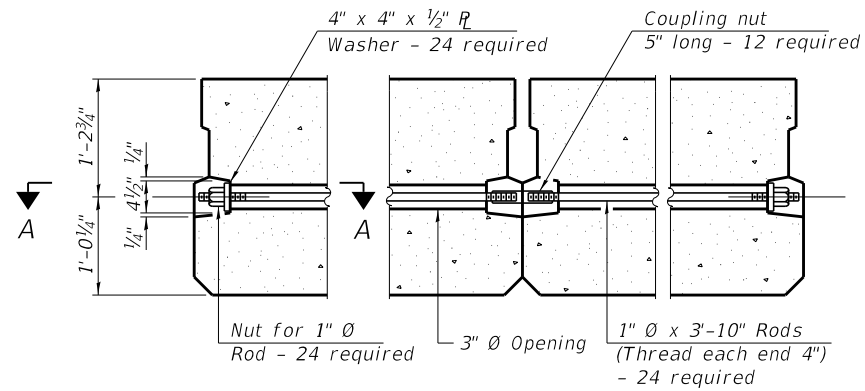
FABRIC BEARING PAD
(Exterior - 4 req'd)

FIXED

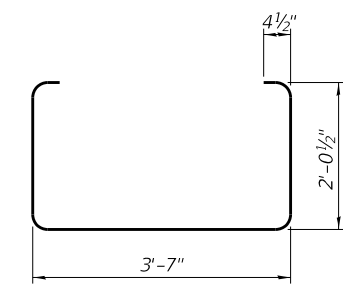
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



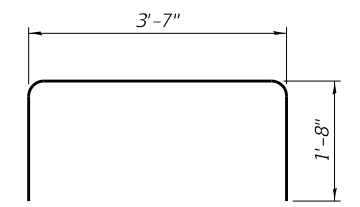
SECTION A-A



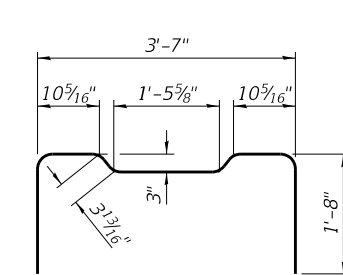
TYPICAL TRANSVERSE TIE ASSEMBLY



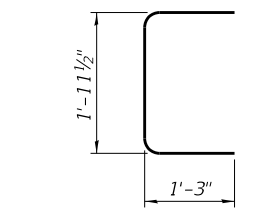
BAR S(E)



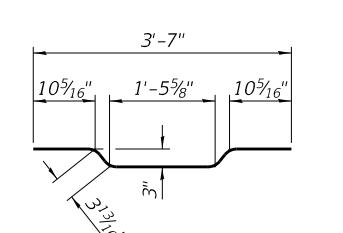
BAR S1(E)



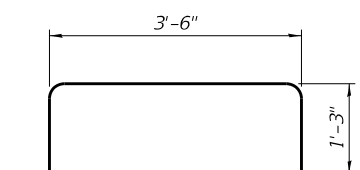
BAR S2(E)



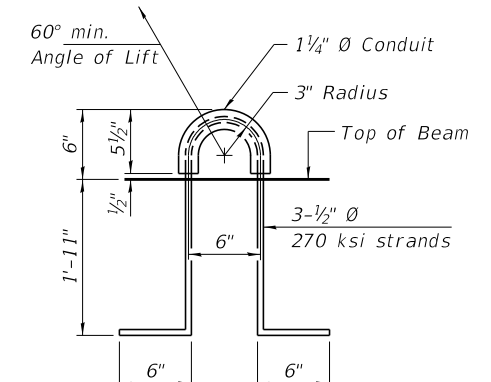
BAR U(E)



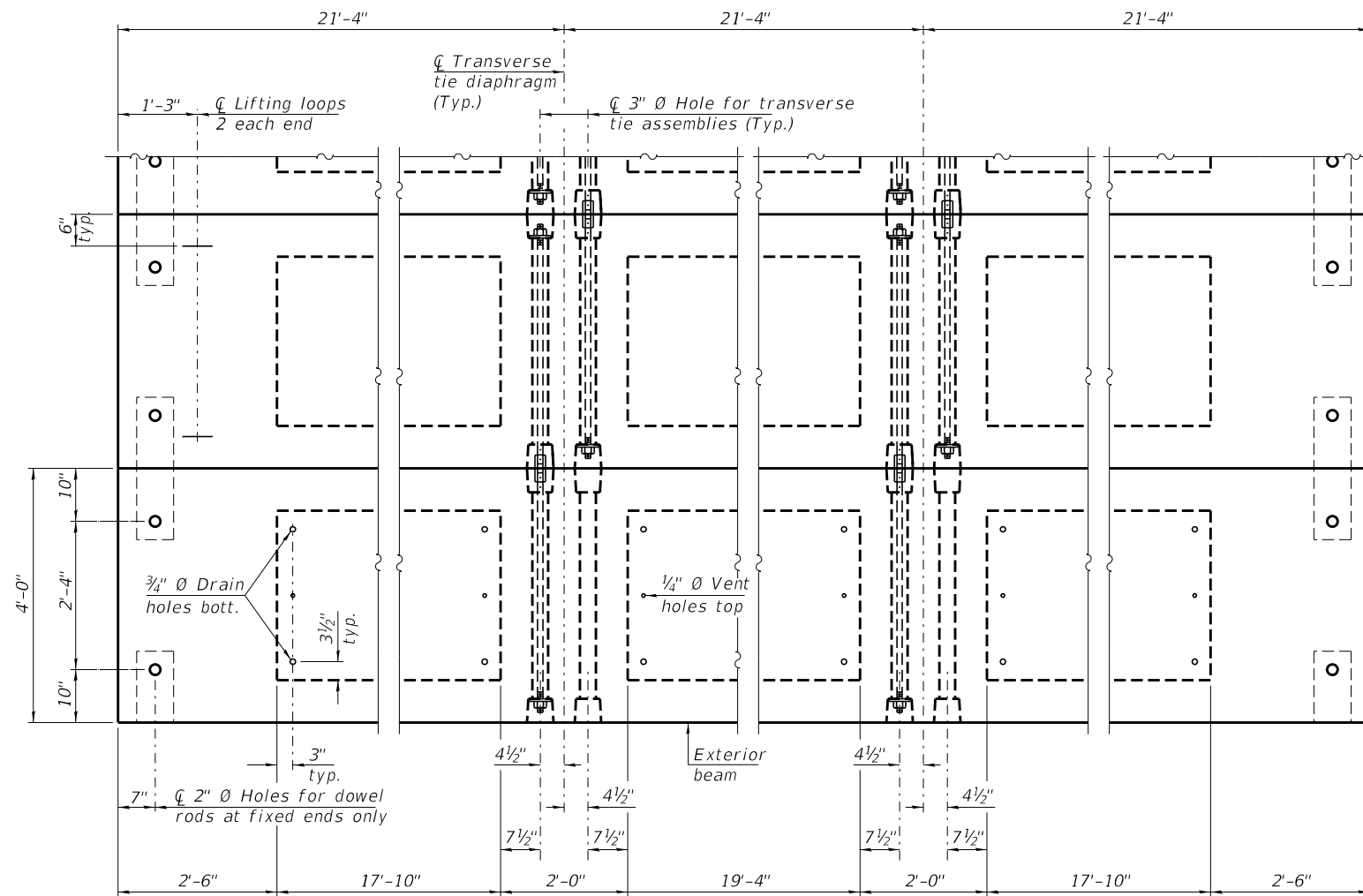
BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL



PLAN VIEW

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" diameter 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. 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" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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'ci, shall be 5000 psi. Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,792
---	---------	-------

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

PDD-2748-0 1-1-2020

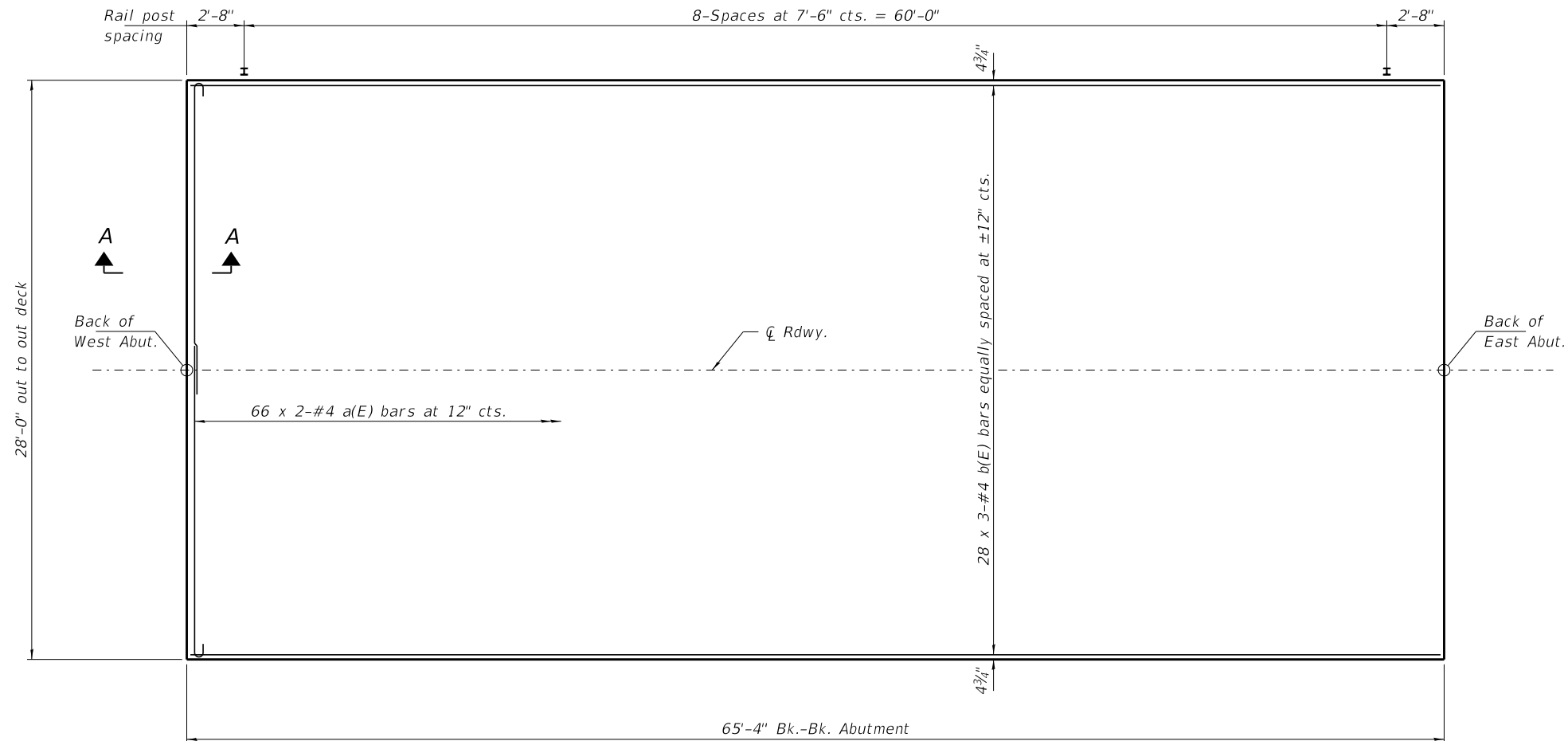
FILE NAME = 210049-shl-bridge.dgn	USER NAME =	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3085 STEVENSON DRIVE, SUITE 201		DRAWN - T.D.S.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 184.000959			

STATE OF ILLINOIS
DEKALB COUNTY HIGHWAY DEPARTMENT

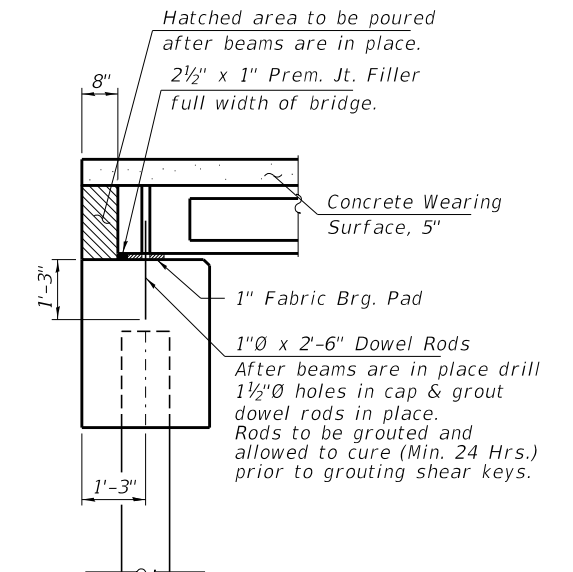
27" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 019-4214

SHEET NO. 3 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-06123-00-BR	DEKALB	22	8
GENOA ROAD DISTRICT		CONTRACT NO. 87767		
ILLINOIS		FED. AID PROJECT		

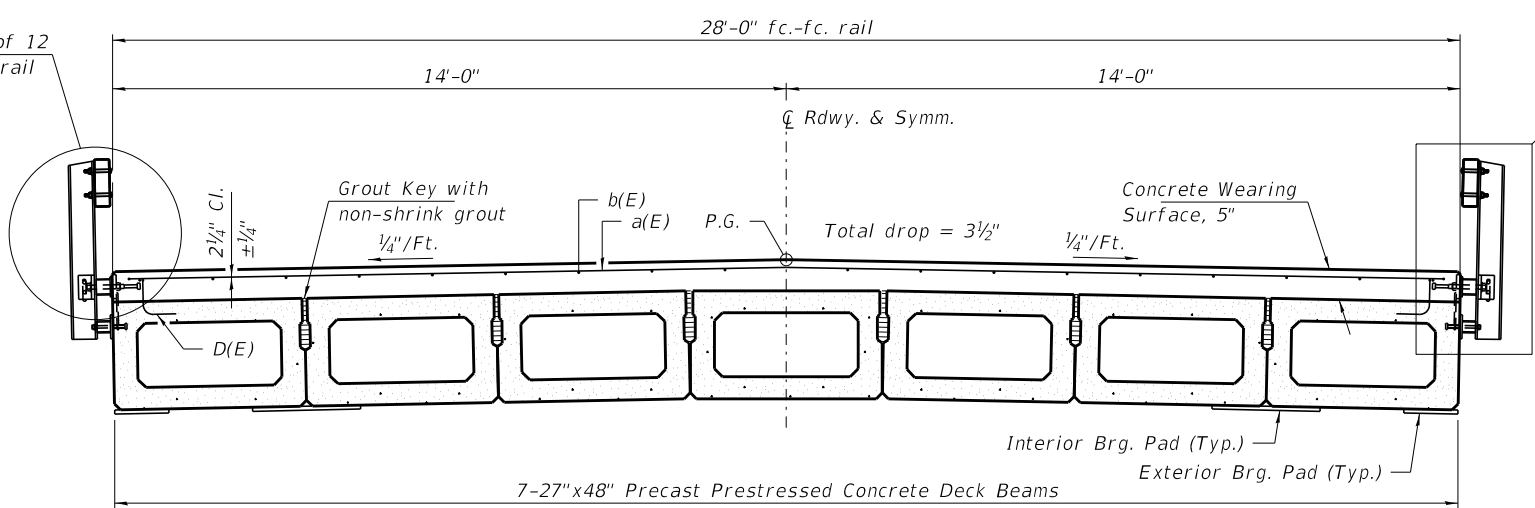


PLAN



SECTION A-A

See sheet 6 of 12 for complete rail details.



CROSS SECTION
(Looking East)

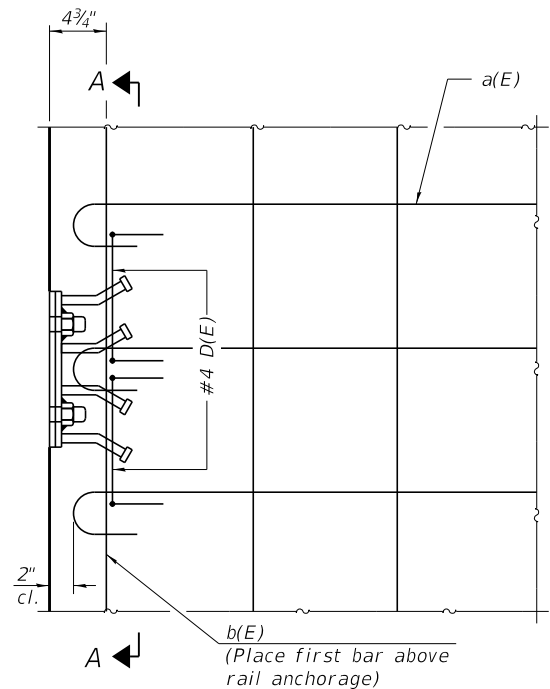
Steel Railing, Type S-1, typ.
See Section Through Fascia Beam and Section A-A on sheet 5 of 12, and sheet 6 of 12 for details

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	132	#4	15'-5"	└───
b(E)	84	#4	23'-2"	───
Reinforcement Bars, Epoxy Coated			Pound	2,660
Concrete Wearing Surface, 5"			Sq. Yd.	203

Bars indicated thus 28 x 3-#4 etc. indicates 28 lines of bars with 3 lengths per line.

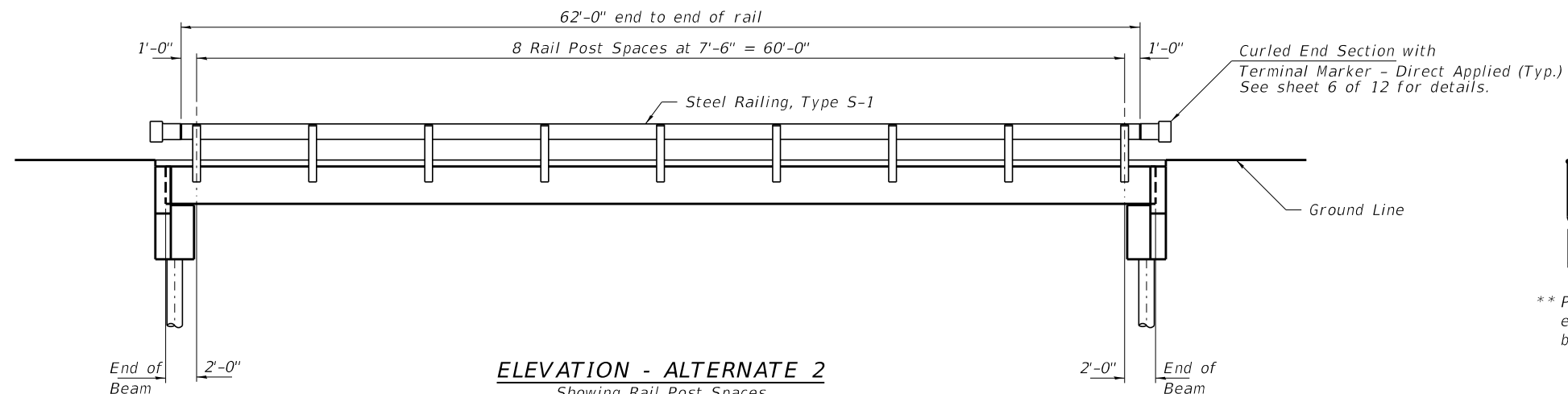
Notes:
See sheet 5 of 12 or Superstructure Details and Bill of Material.
Bars indicated thus 28 x 3-#4 etc. indicates 28 lines of bars with 3 lengths per line.
See sheet 3 of 12 for fabric bearing pad details.



PLAN

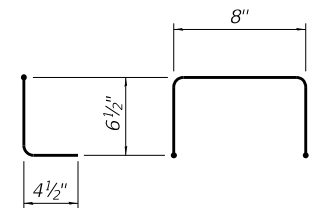
Notes:

Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



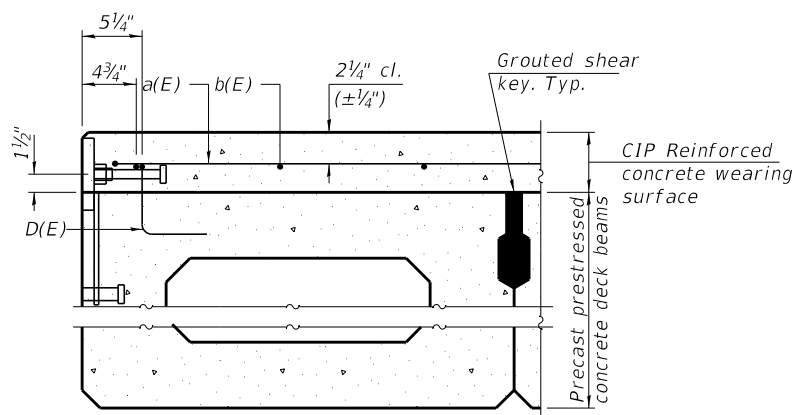
ELEVATION - ALTERNATE 2

Showing Rail Post Spaces
See sheet 6 of 12 for Railing Details.

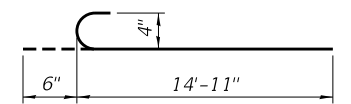


BAR D(E)

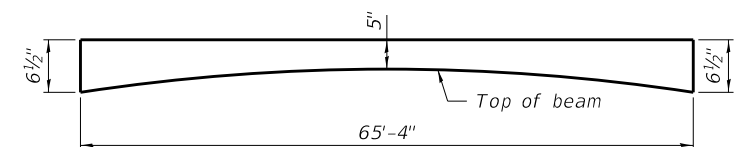
** Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



SECTION THRU FASCIA BEAM

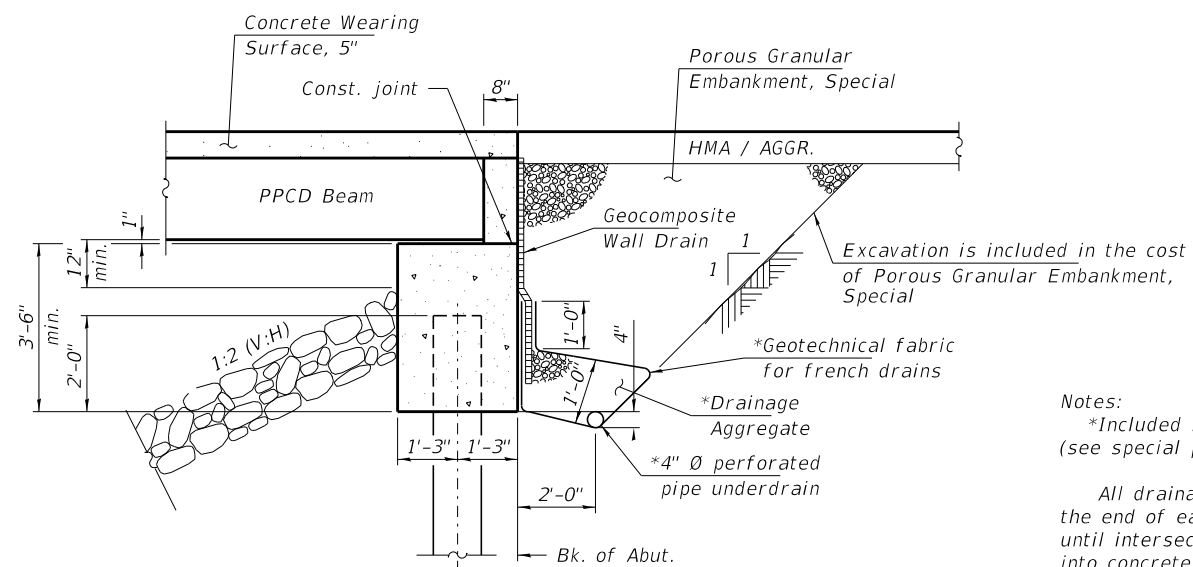


BAR a(E)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)

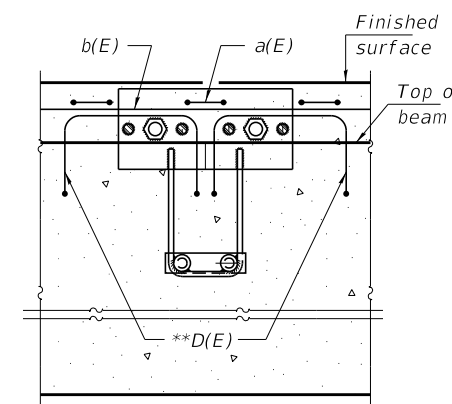


SECTION THRU ABUTMENT

Notes:

*Included in the cost of Pipe Underdrains for Structures. (see special provisions)

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A

FILE NAME = 210049-shi-bridge.dgn	USER NAME =	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - T.D.S.	REVISED -
	PLOT DATE = 9/7/2021	CHECKED - S.W.M.	REVISED -

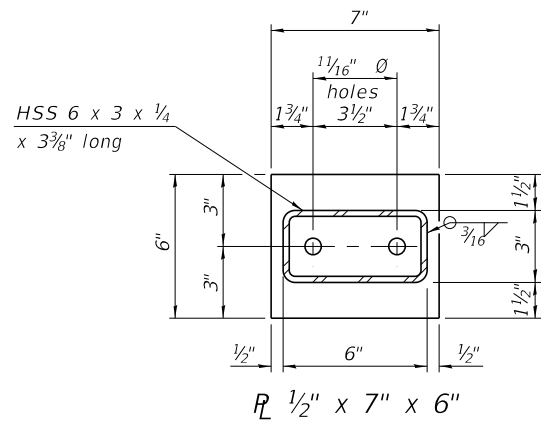
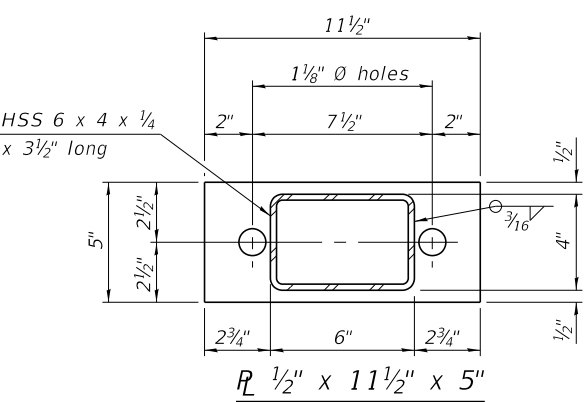
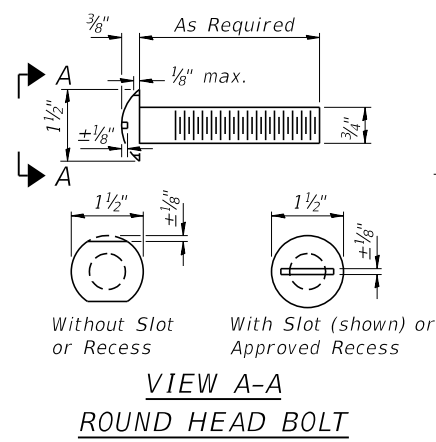
STATE OF ILLINOIS
DEKALB COUNTY HIGHWAY DEPARTMENT

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 019-4214

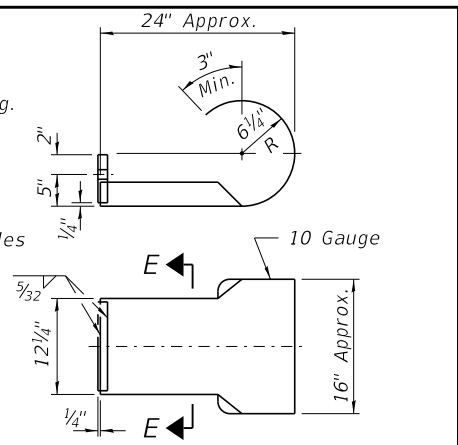
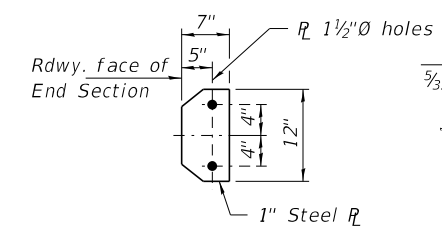
SHEET NO. 5 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-06123-00-BR	DEKALB	22	10
GENOA ROAD DISTRICT		CONTRACT NO. 87767		

ILLINOIS FED. AID PROJECT

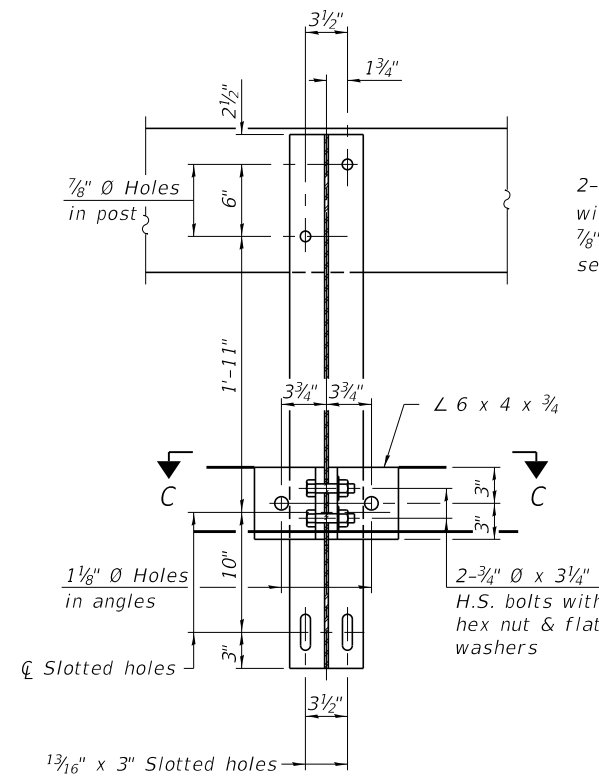


Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)

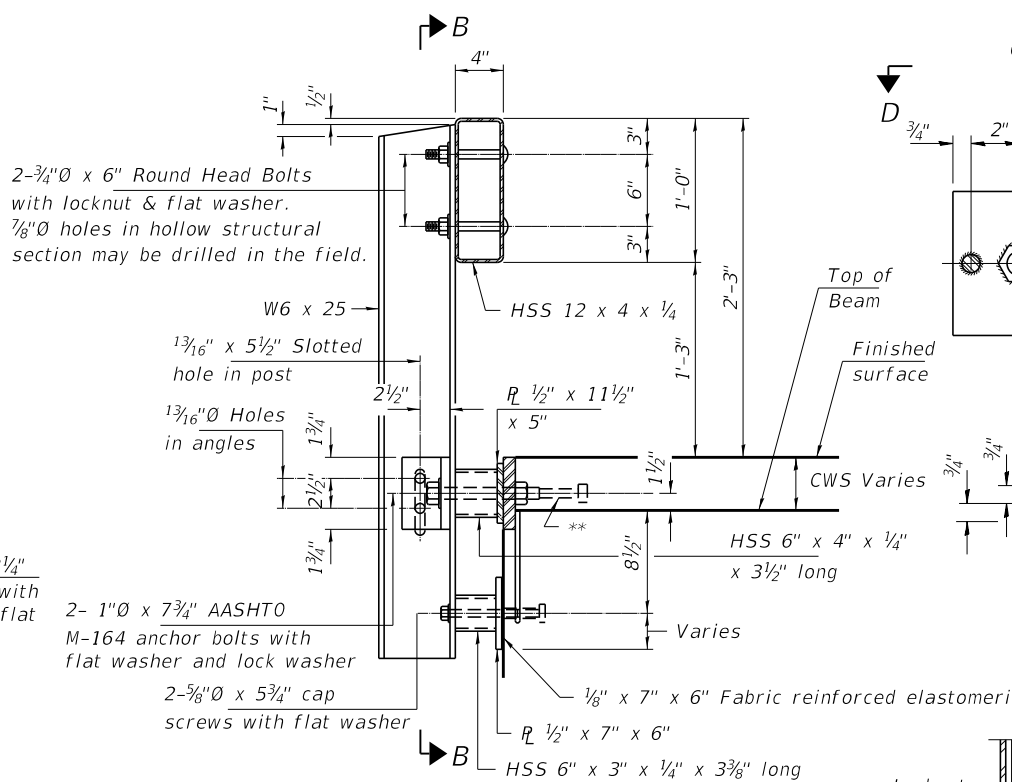


SECTION E-E

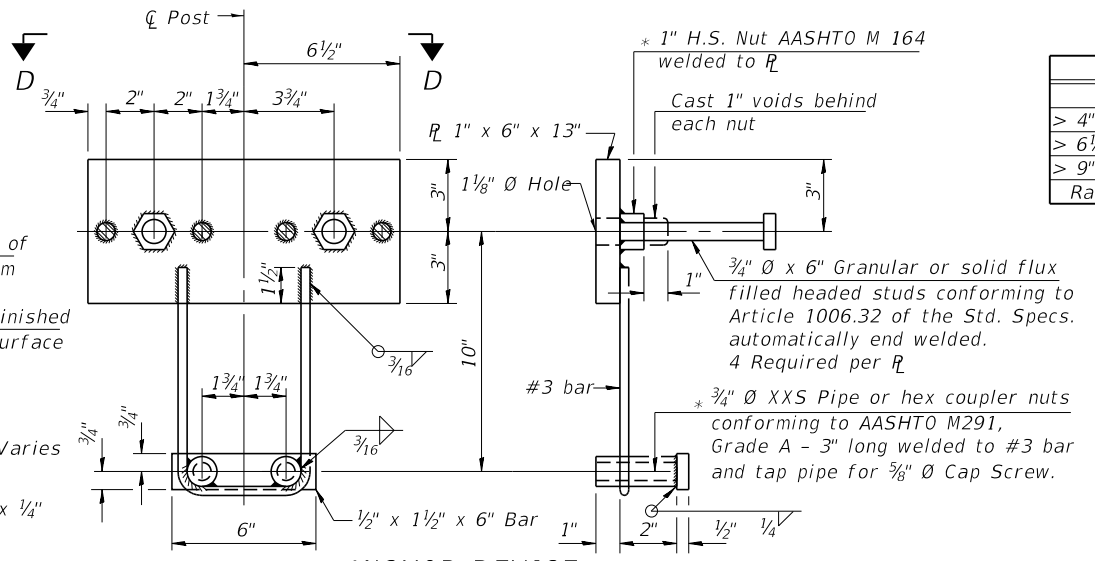
CURLED END SECTION DETAILS



SECTION B-B



SECTION AT RAILING POST



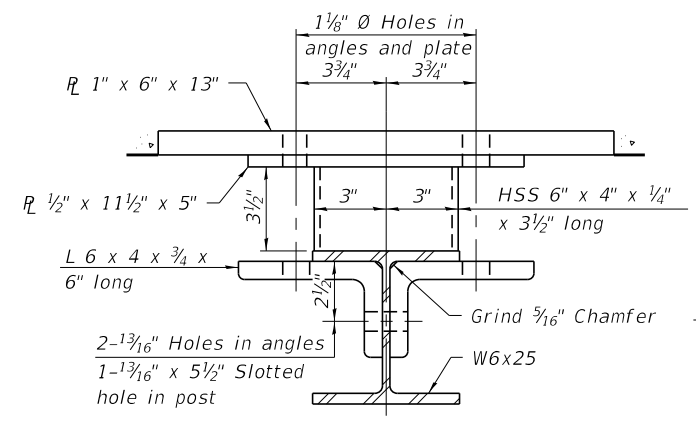
ANCHOR DEVICE

SPLICE DIMENSIONS

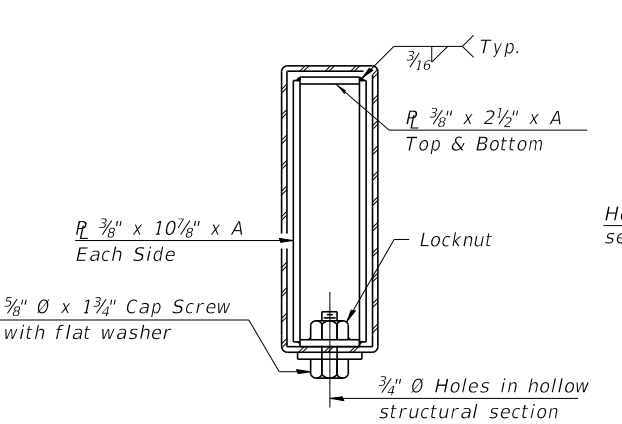
T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

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

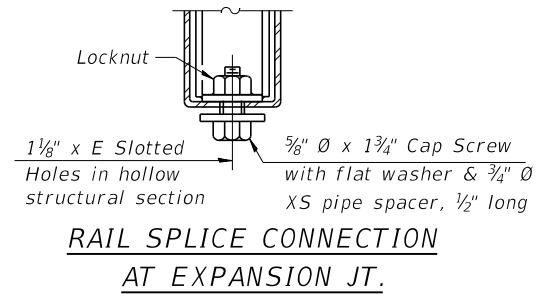
Notes:
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



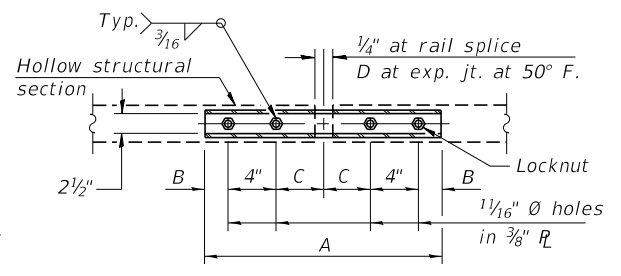
SECTION C-C



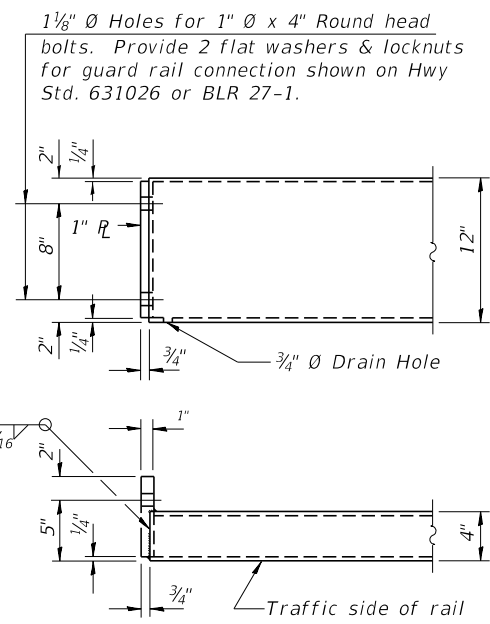
SECTIONS AT RAIL SPLICE



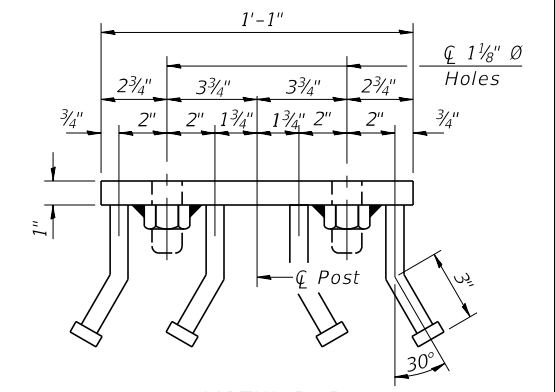
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE R TYPICAL



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	124
Terminal Marker, Direct Applied	Each	4

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

FILE NAME	USER NAME	DESIGNED	REVISIONS
210049-shi-bridge.dgn		I.P.N.	
		S.W.M.	
		T.D.S.	
		S.W.M.	

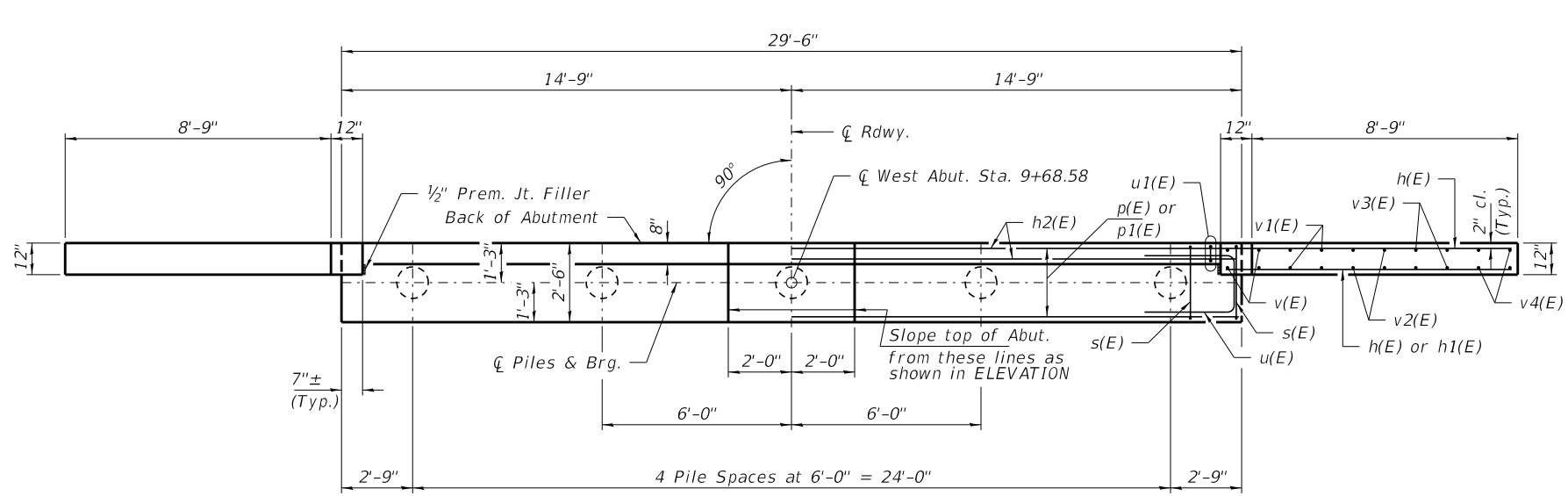
STATE OF ILLINOIS
DEKALB COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
STRUCTURE NO. 019-4214

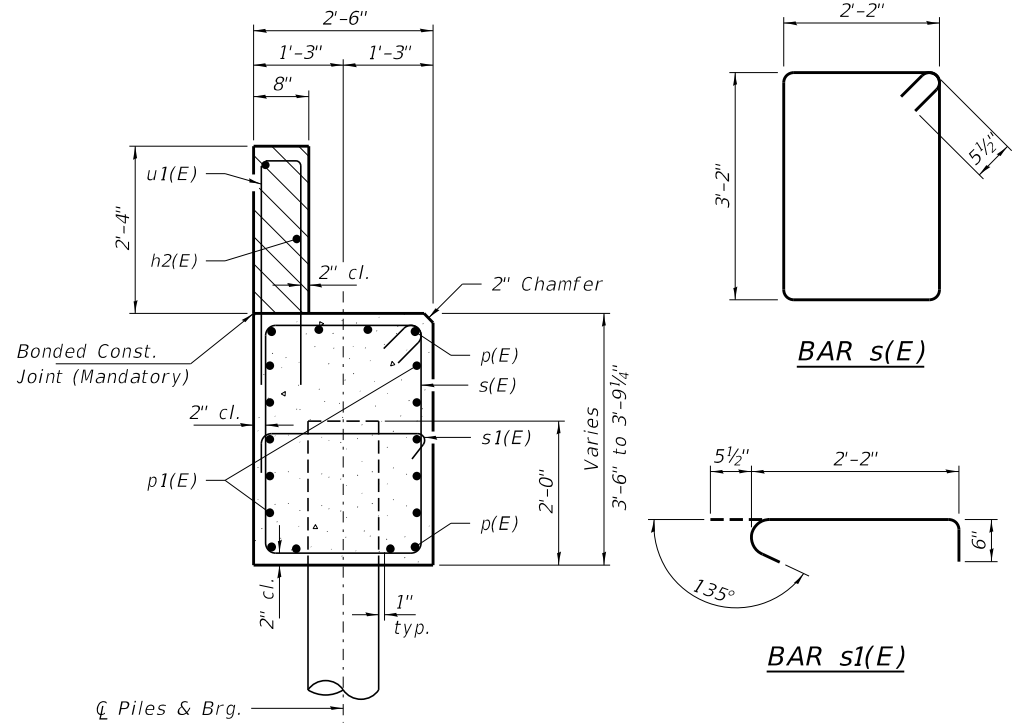
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-06123-00-BR	DEKALB	22	11
GENOA ROAD DISTRICT		CONTRACT NO. 87767		

SHEET NO. 6 OF 12 SHEETS

ILLINOIS FED. AID PROJECT

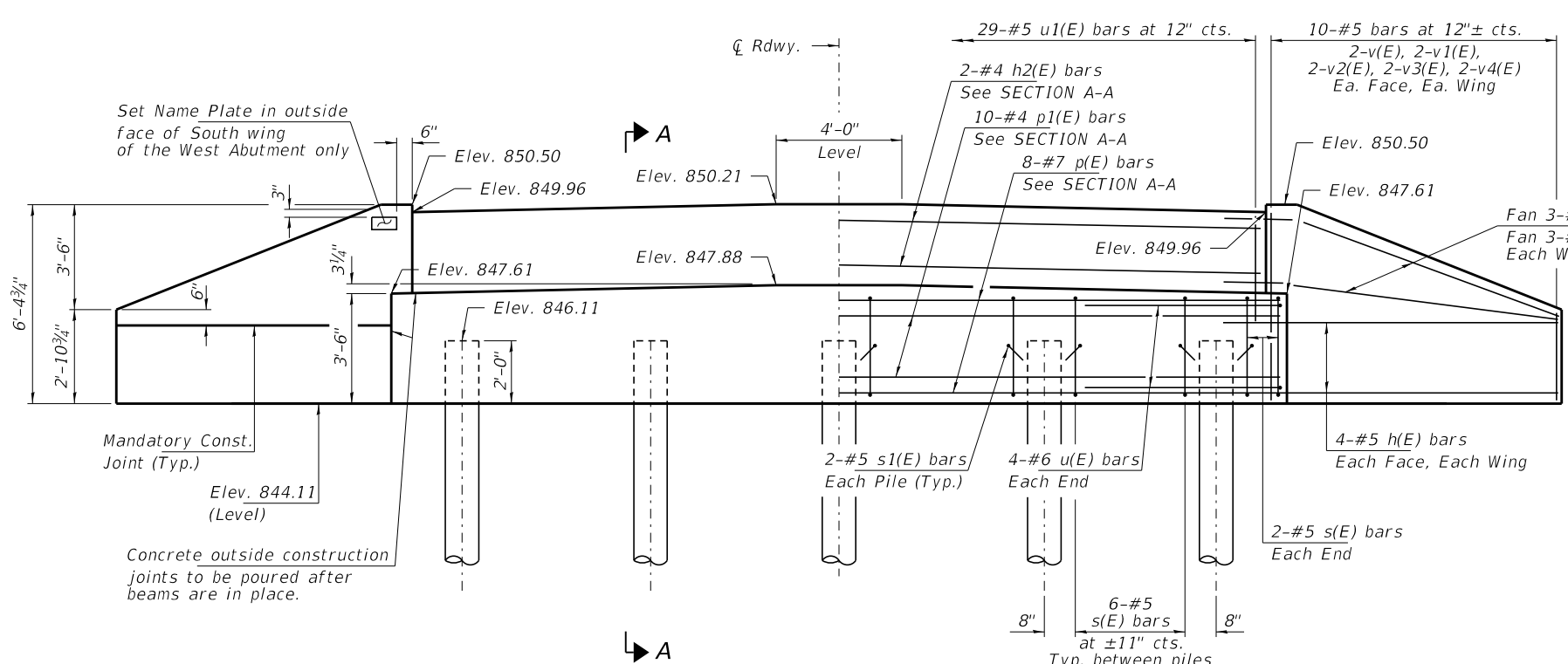


PLAN



SECTION A-A

Hatched area to be poured after beams are in place.
Cast top of wingwall flush with exterior beam face after beams have been erected.

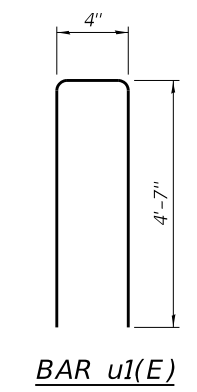


ELEVATION
(Looking West)

PILE DATA

Type: Metal Shell Pile 12"x0.250 w/Pile Shoes
 Nominal Required Bearing: 315 Kips/Pile
 Factored Resistance Available: 173 Kips/Pile
 Est. Length: 32 Ft/Pile
 No. Production Piles: 5
 No. Test Piles: 0

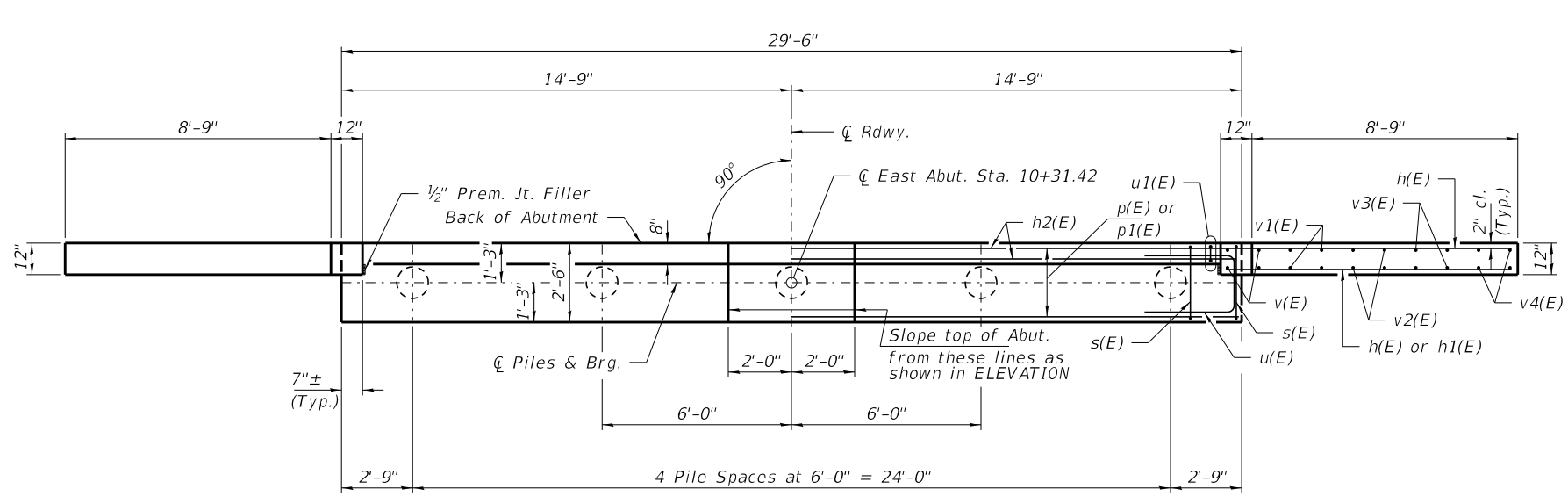
Note: Piles shall be driven to below elevation 828.5 or below.



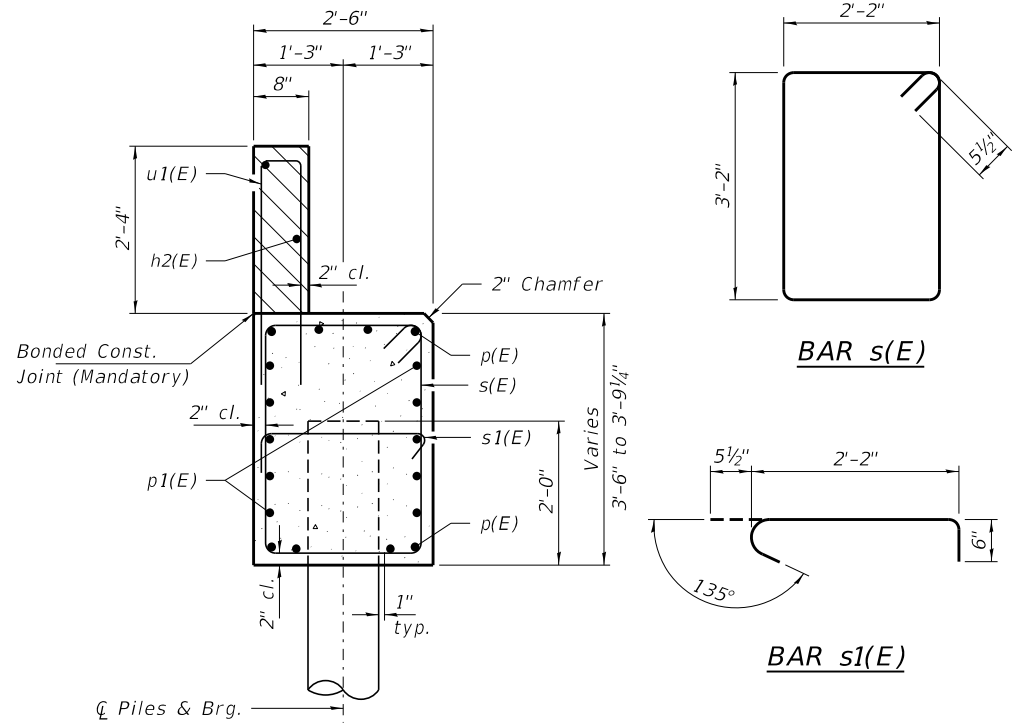
BAR u1(E)

BILL OF MATERIAL - W. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE	
h(E)	22	#5	11'-0"	—	
h1(E)	6	#5	9'-6"	—	
h2(E)	2	#5	29'-2"	—	
p(E)	8	#7	29'-2"	—	
p1(E)	10	#4	29'-2"	—	
s(E)	28	#5	11'-7"	□	
s1(E)	10	#5	3'-2"	┌	
u(E)	8	#6	10'-9"	—	
u1(E)	29	#5	9'-6"	—	
v(E)	8	#5	5'-11"	—	
v1(E)	8	#5	5'-1"	—	
v2(E)	8	#5	4'-3"	—	
v3(E)	8	#5	3'-5"	—	
v4(E)	8	#5	2'-7"	—	
Concrete Structures				Cu. Yd.	14.9
Protective Coat				Sq. Yd.	3
Reinf. Bars, Epoxy Coated				Pound	2,030
Furn. Metal Shell Piles 12"x0.250"				Foot	160
Driving Piles				Foot	160
Pile Shoes				Each	5
Name Plates				Each	1

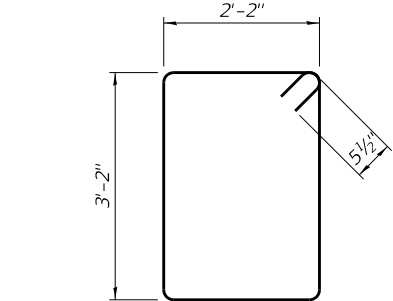


PLAN

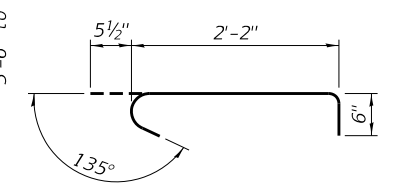


SECTION A-A

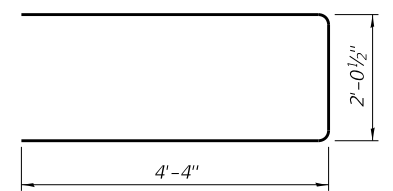
Hatched area to be poured after beams are in place.
Cast top of wingwall flush with exterior beam face after beams have been erected.



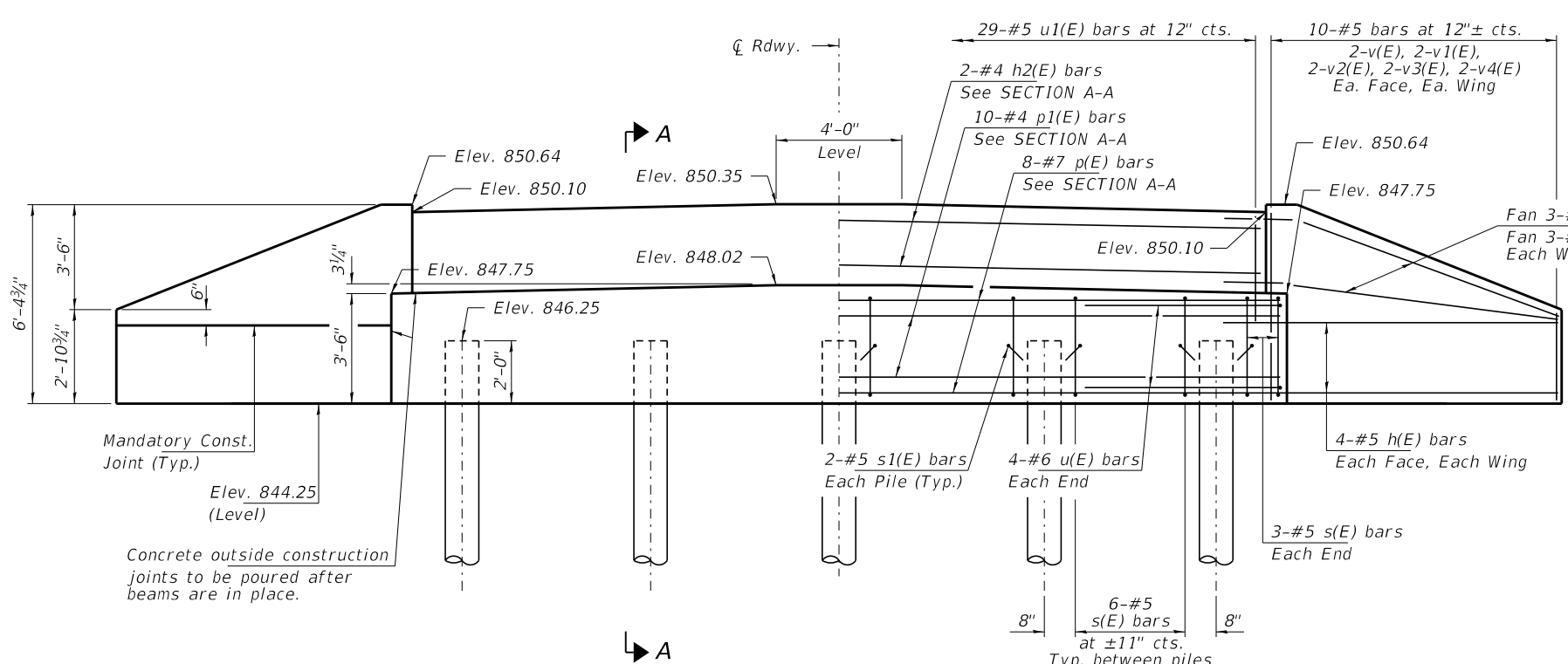
BAR s(E)



BAR s1(E)

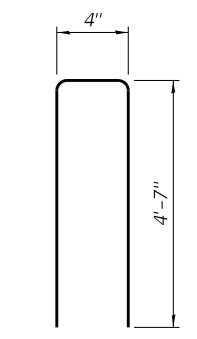


BAR u(E)



ELEVATION
(Looking East)

Note: Extend h(E) bars into abutment cap.



BAR u1(E)

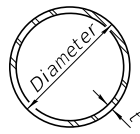
PILE DATA

Type: Metal Shell Pile 12"x0.250 w/Pile Shoes
 Nominal Required Bearing: 315 Kips/Pile
 Factored Resistance Available: 173 Kips/Pile
 Est. Length: 32 Ft/Pile
 No. Production Piles: 4
 No. Test Piles: 1

Note: Piles shall be driven to below elevation 828.5 or below.

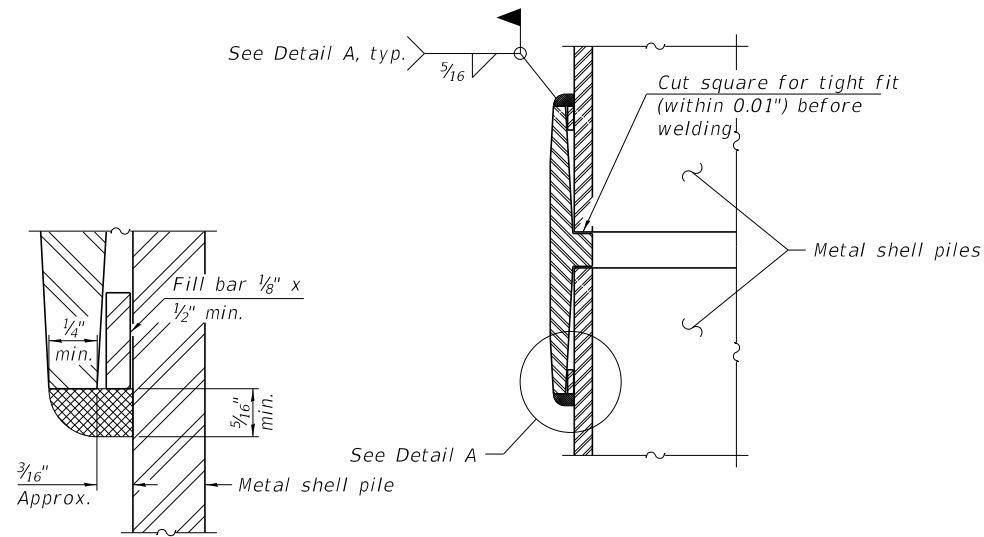
BILL OF MATERIAL - E. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE	
h(E)	22	#5	11'-0"	—	
h1(E)	6	#5	9'-6"	—	
h2(E)	2	#5	29'-2"	—	
p(E)	8	#7	29'-2"	—	
p1(E)	10	#4	29'-2"	—	
s(E)	28	#5	11'-7"	□	
s1(E)	10	#5	3'-2"	┌	
u(E)	8	#6	10'-9"	—	
u1(E)	29	#5	9'-6"	—	
v(E)	8	#5	5'-11"	—	
v1(E)	8	#5	5'-1"	—	
v2(E)	8	#5	4'-3"	—	
v3(E)	8	#5	3'-5"	—	
v4(E)	8	#5	2'-7"	—	
Concrete Structures				Cu. Yd.	14.9
Protective Coat				Sq. Yd.	3
Reinf. Bars, Epoxy Coated				Pound	2,030
Furn. Metal Shell Piles 12"x0.250"				Foot	128
Driving Piles				Foot	128
Pile Shoes				Each	5
Test Pile Metal Shells				Each	1

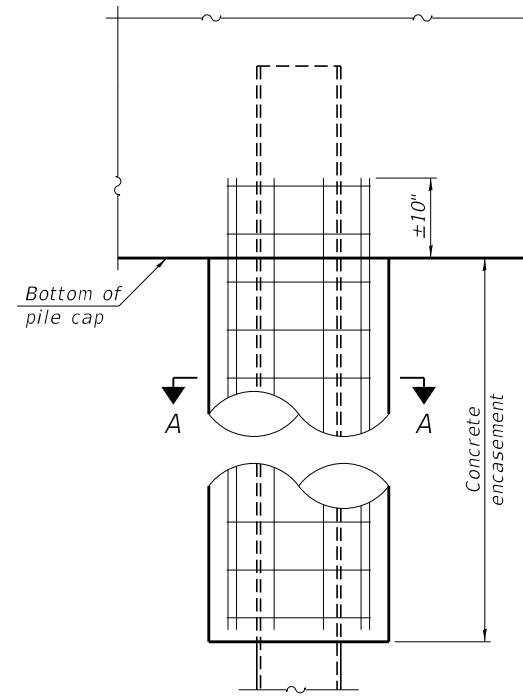


METAL SHELL PILE TABLE

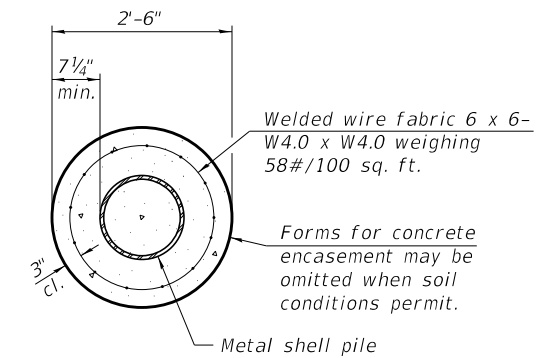
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

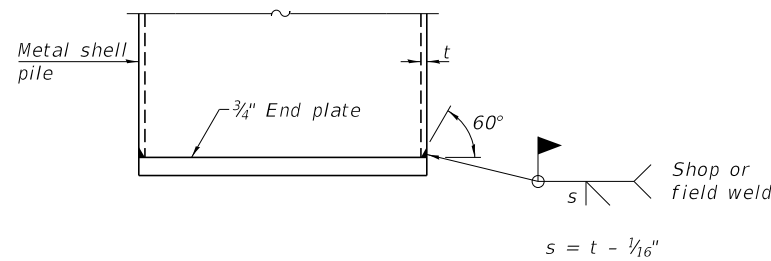


ELEVATION



SECTION A-A

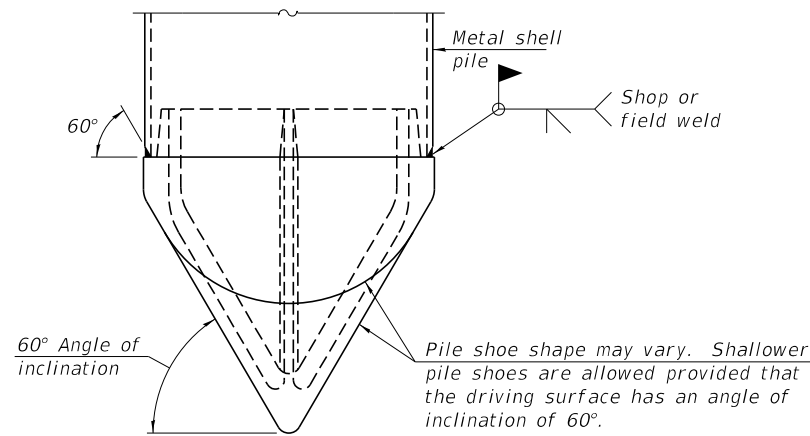
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



END PLATE ATTACHMENT

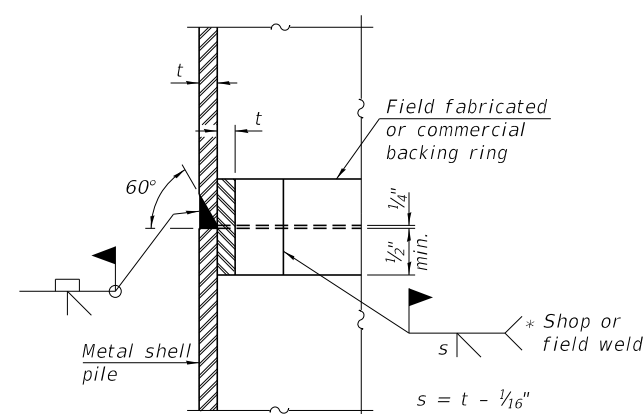
WELDED COMMERCIAL SPLICE

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.



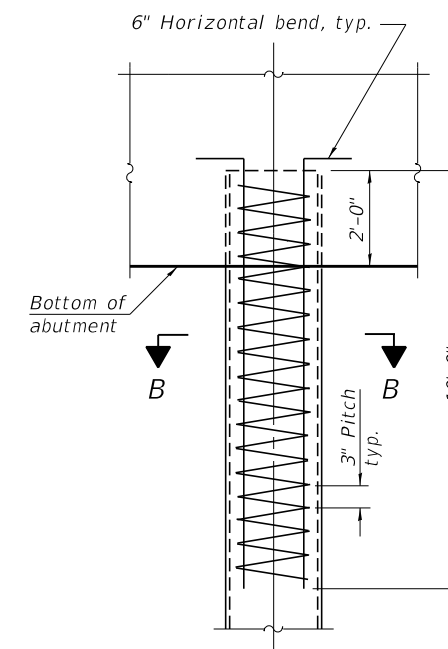
PILE SHOE ATTACHMENT

(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).

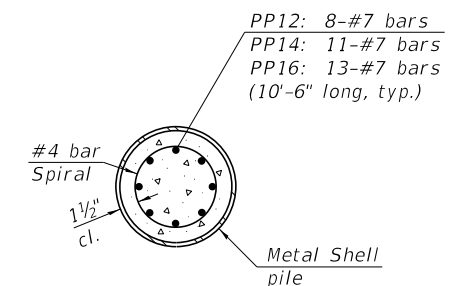


COMPLETE PENETRATION WELD SPLICE

* 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



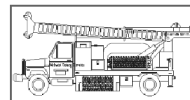
SECTION B-B

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

FILE NAME = 210049-shi-bridge.dgn	USER NAME =	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS DEKALB COUNTY HIGHWAY DEPARTMENT	METAL SHELL PILE DETAILS STRUCTURE NO. 019-4214	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			244	17-06123-00-BR	DEKALB	22	14
	PLOT DATE = 9/7/2021	DRAWN - T.D.S.	REVISED -			GENOA ROAD DISTRICT		CONTRACT NO. 87767		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 9 OF 12 SHEETS		ILLINOIS		FED. AID PROJECT



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

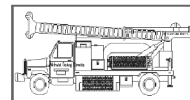
Client: Hampton, Lenzini, and Renwick, Inc.
Project Name: New Lebanon Bridge SN 019-4207 DeKalb County
Project Site: DeKalb, Illinois

Boring No. B-1
Surface Elev. 851.84
Auger Depth 71' Rotary Depth NA
Start Date 02/18/21 Finish Date 02/18/21

Location: Centerline of roadway and 35' north of
center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
851.84										Jeff Safranski Diedrich D-120	
850.84	Stiff Black And Brown Silty Clay		1								
849.84			2								
848.84			3	1	SS	1.2	6	B	20		
847.84			4								
846.84			5								
845.84			6	2	SS	1.4	7	B	21		
844.84	Medium Brown Fine To Coarse Sand		7								
843.84			8	3	SS	---	20	---	12		
842.84			9								
841.84	Dense Brown Fine To Coarse Sand		10								
840.84			11	4	SS	---	32	---	10		
839.84			12								
838.84			13	5	SS	---	22	---	8		
837.84			14								
836.84	Medium Gray Fine Gravel		15								
835.84			16	6	SS	---	25	---	12		← WATER
834.84			17								
833.84			18	7	SS	---	20	---	---		
832.84			19								
831.84			20	8	SS	---	21	---	---		

Groundwater Data: Static water level at 16' depth.
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hampton, Lenzini, and Renwick, Inc.
Project Name: New Lebanon Bridge SN 019-4207 DeKalb County
Project Site: DeKalb, Illinois

Boring No. B-1
Surface Elev. 851.84
Auger Depth 71' Rotary Depth NA
Start Date 02/18/21 Finish Date 02/18/21

Location: Centerline of roadway and 35' north of
center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
830.84										Jeff Safranski Diedrich D-120	
829.84			22								
828.84			23	9	SS	---	24	---	---		
827.84			24								
826.84			25								
825.84			26	10	SS	---	22	---	---		
824.84			27								
823.84			28	11	SS	---	24	---	---		
822.84			29								
821.84			30								
820.84	Medium Gray Coarse Sand To Fine Gravel		31	12	SS	---	27	---	---		
819.84			32								
818.84			33								
817.84			34								
816.84			35								
815.84			36	13	SS	---	26	---	---		
814.84			37								
813.84			38								
812.84			39								
811.84			40								
810.84			41	14	SS	---	25	---	---		

Groundwater Data: Static water level at 16' depth.
Comments:

BORING B-1

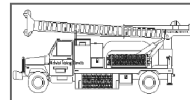
FILE NAME = 210049-shi-bridge.dgn	USER NAME =	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - T.D.S.	REVISED -
	PLOT DATE = 9/7/2021	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
DEKALB COUNTY HIGHWAY DEPARTMENT

BORINGS
STRUCTURE NO. 019-4214

SHEET NO. 10 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-06123-00-BR	DEKALB	22	15
GENOA ROAD DISTRICT		CONTRACT NO. 87767		
ILLINOIS		FED. AID PROJECT		



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 3 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

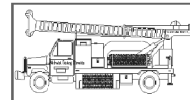
Client: Hampton, Lenzini, and Renwick, Inc.
Project Name: New Lebanon Bridge SN 019-4207 DeKalb County
Project Site: DeKalb, Illinois

Boring No. B-1
Surface Elev. 851.84
Auger Depth 71' Rotary Depth NA
Start Date 02/18/21 Finish Date 02/18/21

Location: Centerline of roadway and 35' north of
center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
809.84										Jeff Safranski Diedrich D-120	
808.84			43								
807.84			44								
806.84			45	15	SS	---	23	---	---		
805.84			46								
804.84			47								
803.84			48								
802.84			49								
801.84	Medium Gray Coarse Sand To Fine Gravel		50	16	SS	---	25	---	---		
800.84			51								
799.84			52								
798.84			53								
797.84			54								
796.84			55	17	SS	---	25	---	---		
795.84			56								
794.84			57								
793.84			58								
792.84			59								
791.84			60	18	SS	---	27	---	---		
790.84			61								
789.84			62								

Groundwater Data: Static water level at 16' depth.
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 4 of 4

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hampton, Lenzini, and Renwick, Inc.
Project Name: New Lebanon Bridge SN 019-4207 DeKalb County
Project Site: DeKalb, Illinois

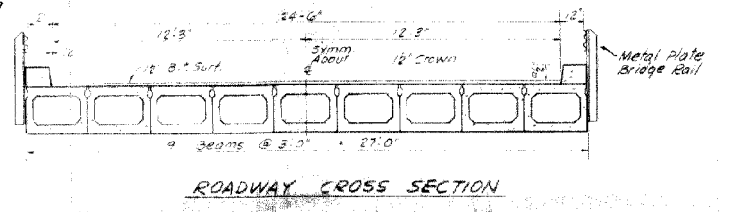
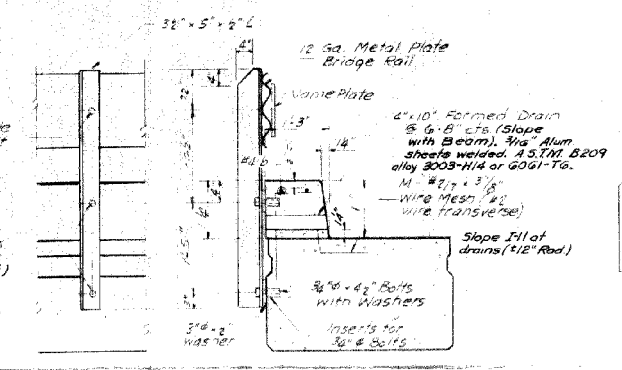
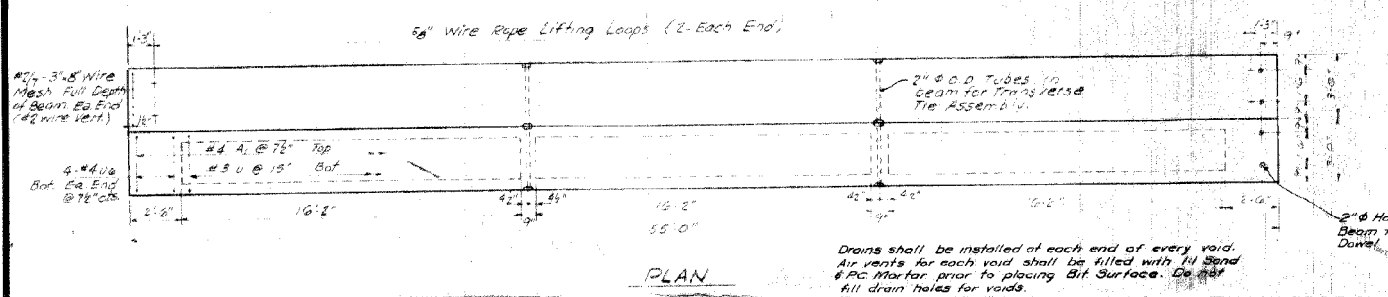
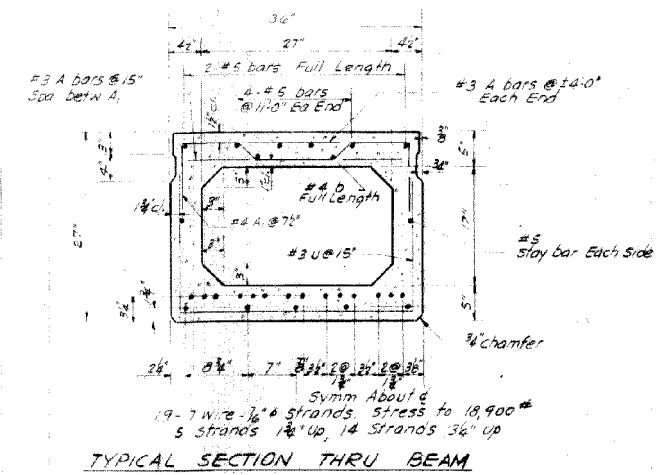
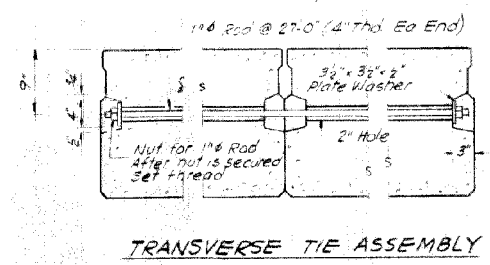
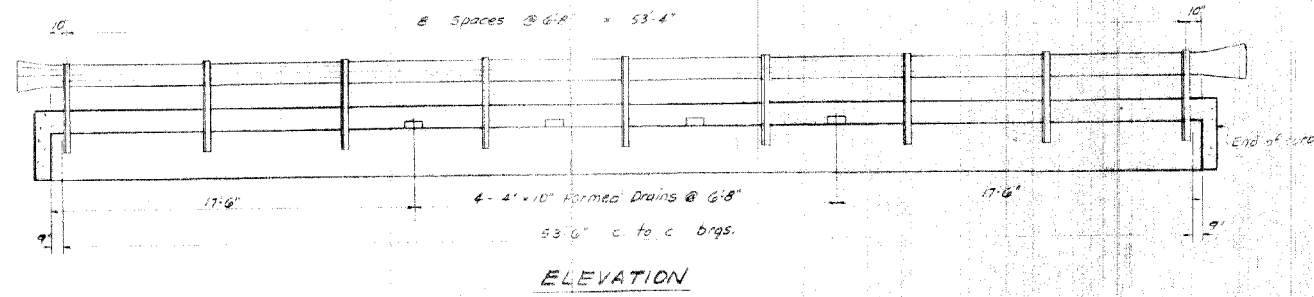
Boring No. B-1
Surface Elev. 851.84
Auger Depth 71' Rotary Depth NA
Start Date 02/18/21 Finish Date 02/18/21

Location: Centerline of roadway and 35' north of
center of existing bridge

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
788.84										Jeff Safranski Diedrich D-120	
787.84	Medium Gray Coarse Sand To Fine Gravel		64								
786.84			65	19	SS	2.6	14	B	12		
785.84			66								
784.84	Very Stiff Brownish Gray Clay Till		67								
783.84			68								
782.84			69								
781.84			70								
780.84			71	20	SS	2.8	26	B	12		
779.84			72								
778.84			73								
777.84			74								
776.84			75								
775.84			76								
774.84			77								
773.84			78								
772.84			79								
771.84			80								
770.84			81								
769.84			82								
768.84			83								

Groundwater Data: Static water level at 16' depth.
Comments:

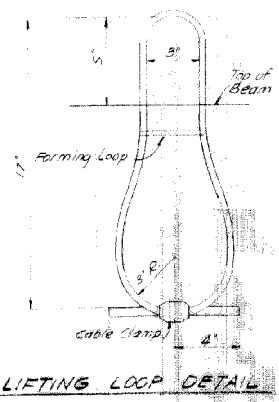
BORING B-1



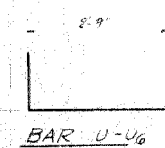
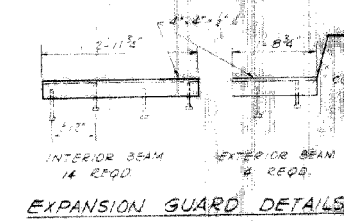
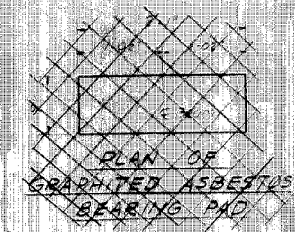
FOR INFORMATION ONLY

GENERAL NOTES

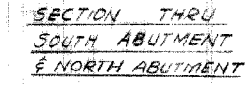
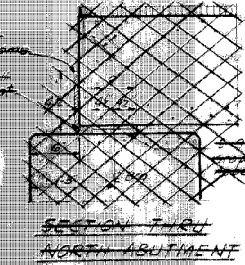
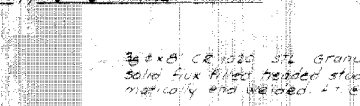
Prestress wire shall be nongalvanized high strength stress relieved 7-wire strand. The nominal diameter shall be 7/16" and the nominal cross-sectional area shall be 0.109 square inches.
 Lifting Loops shall be 5/8" diameter, 6.19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs.
 The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set.
 Pockets that receive transverse tie bar on outside beam shall be filled with grout after assembly is in place.
 Longitudinal shear keys shall be dry-packed with 1:1 sand and P.C. Mortar.
 Dowel bars shall be drilled and grouted into place.
 cost of reinforcement and accessories casted into beam, of furnishing, drilling and assembling transverse ties or furnishing, drilling and grouting dowel bars are of grouting longitudinal shear keys is included unit price per sq. ft. of Precast Prestressed concrete Bridge Deck.



PLAN OF FABRIC BEARING PAD



DETAIL M



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE	QTY	UNIT	TOTAL
b	A	#4	18'-0"				
Precast Prestressed Concrete Bridge Deck - 27"							
			Sq Ft		1485		
Class X Concrete							
			Cu Yds		4.9		
Reinforcement Bars							
			Lbs		180		
Metal Plate Bridge Rail							
			Lin Ft		107		
Furnishing Erecting Structural Steel							
			Lbs		200		

SABIN BRIDGE OVER COON CREEK
 PROJECT #2-1964 GENOA ROAD DIST.
 DEKALB COUNTY

SUPER STRUCTURE

DESIGNED BY: E.H.
 DATE: MARCH 1964

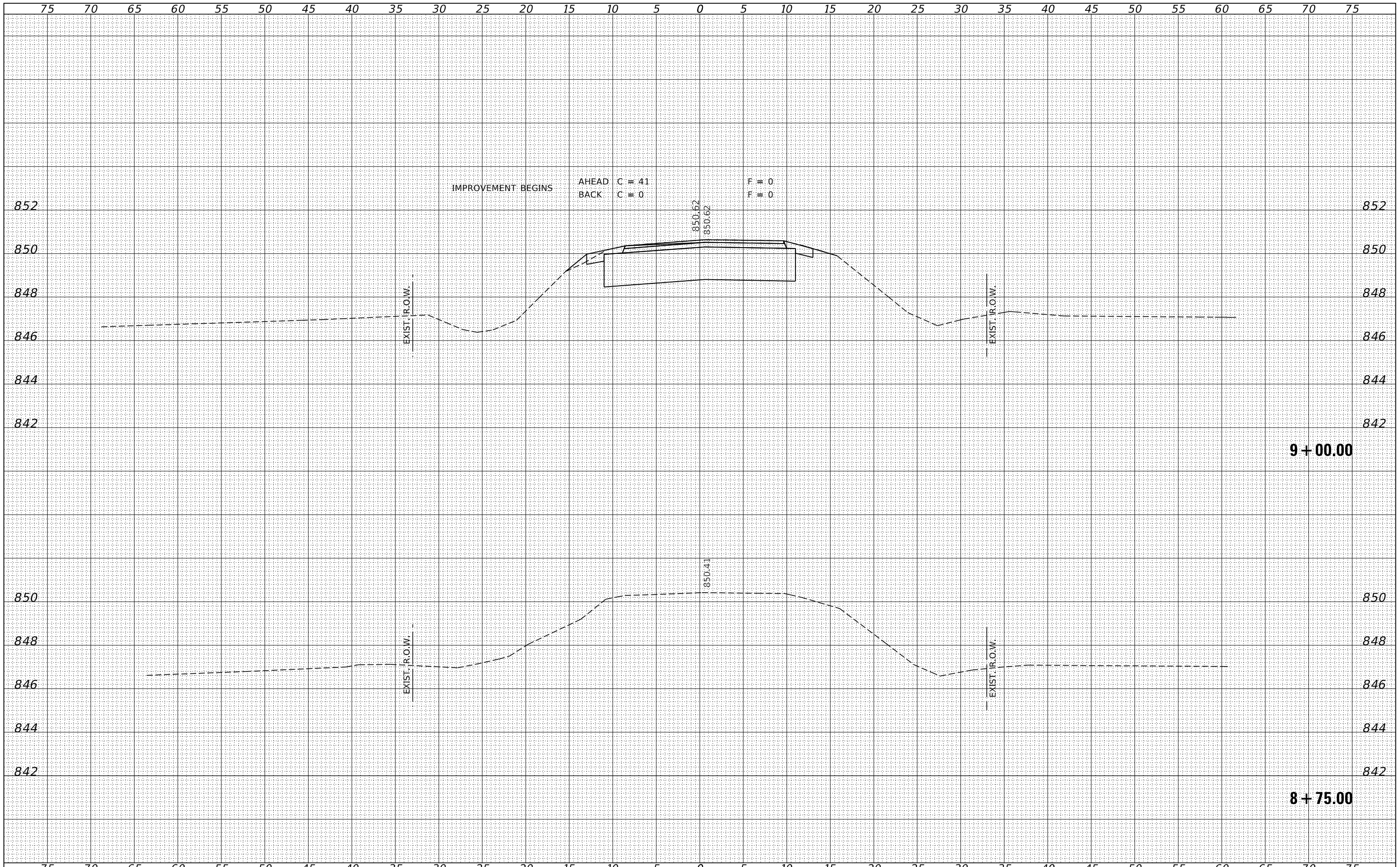
PLANS PREPARED BY:
 S.W. KNETSCH
 AND ASSOCIATES

CONSULTING ENGINEERS
 DEKALB, ILLINOIS

REVISIONS
 BY: DATE
 RBK 6-9-64

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

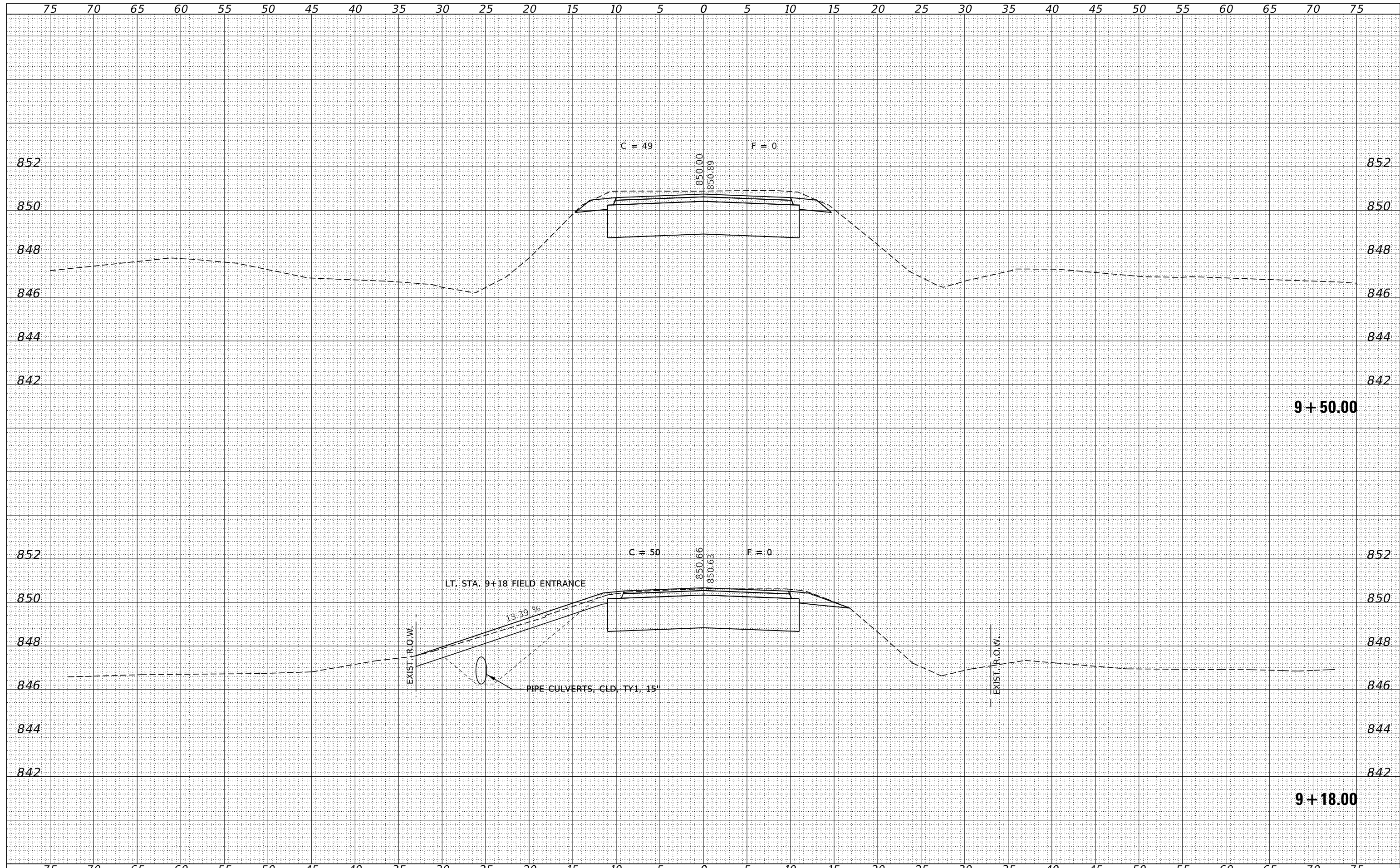
BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED
NO.	



FILE NAME = 210049-eh1-xssheets.dgn		USER NAME = rnosck		DESIGNED - J.V.F.		REVISED -		STATE OF ILLINOIS DEKALB COUNTY HIGHWAY DEPARTMENT STATION CROSS SECTIONS	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPLTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.009958		DRAWN - T.W.K.		CHECKED - S.W.M.		REVISED -			244	17-03123-00-BR	DEKALB	22	18
PLOT SCALE = \$Scales		DATE - 09/07/2021		REVISID -		REVISID -			GENOA ROAD DISTRICT		CONTRACT NO. 87767		
PLOT DATE = 9/7/2021									ILLINOIS		FED. AID PROJECT X6FH(897)		
								SCALE: 5H:2V	SHEET NO. 1 OF 5 SHEETS		STA. 8+75.00 TO STA. 9+00.00		

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

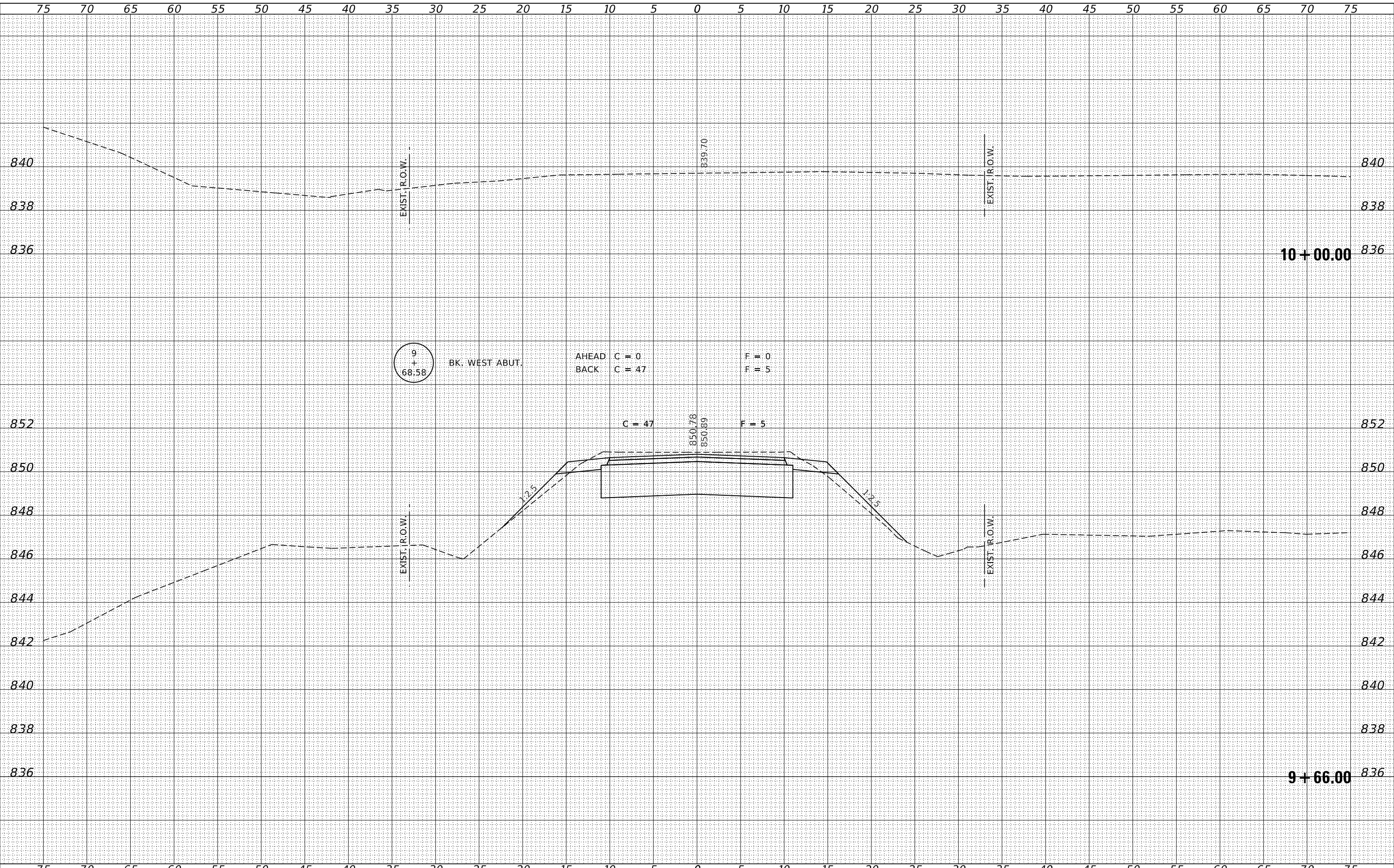
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = 210049-ehf-xssheets.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISD -	STATE OF ILLINOIS DEKALB COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISD -		244	17-03123-00-BR	DEKALB	22	19			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958		CHECKED - S.W.M.	REVISD -		GENOA ROAD DISTRICT			CONTRACT NO. 87767				
		DATE - 09/07/2021	REVISD -		SCALE: 5H:2V	SHEET NO. 2 OF 5 SHEETS	STA. 9+18.00 TO STA. 9+50.00	ILLINOIS FED. AID PROJECT X6FH(897)				

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED



FILE NAME = 210049-ehf-xssheets.dgn
 DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 09/07/2021

USER NAME = rmosck
 PLOT SCALE = \$\$SCALE\$
 PLOT DATE = 9/7/2021

DESIGNED - J.V.F.
 REVISIONS -
 CHECKED - S.W.M.
 DATE - 09/07/2021

REVISIONS -
 REVISIONS -
 REVISIONS -

STATE OF ILLINOIS
 DEKALB COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V
 SHEET NO. 3 OF 5 SHEETS
 STA. 9+66.00 TO STA. 10+00.00

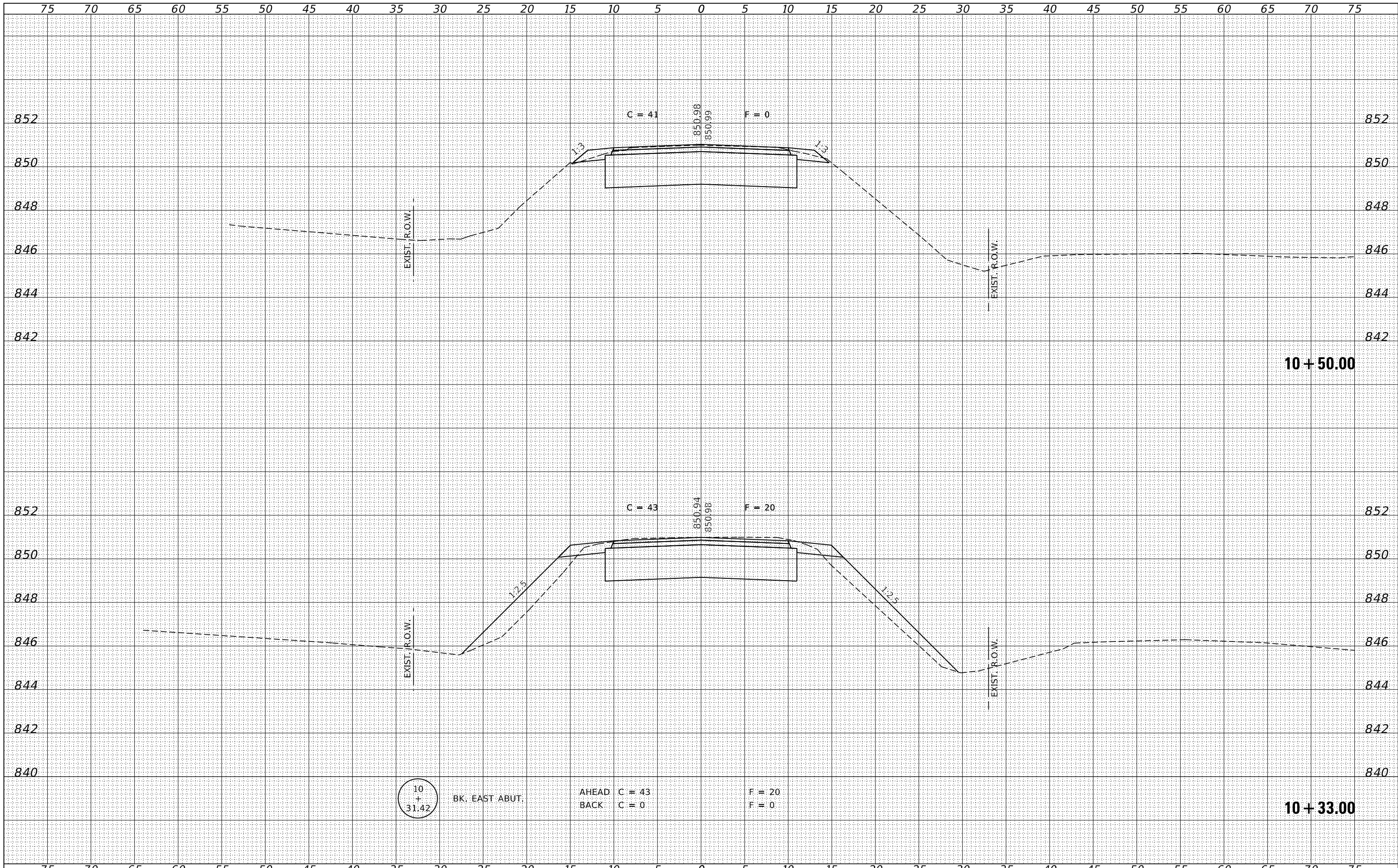
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-03123-00-BR	DEKALB	22	20
GENOA ROAD DISTRICT		CONTRACT NO. 87767		

HLR HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 ILS / PE / SE CORP. 184-009959

ILLINOIS FED. AID PROJECT X6FH(897)

BY	DATE

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	



10 + 31.42

BK. EAST ABUT.

AHEAD C = 43 F = 20
BACK C = 0 F = 0

10 + 33.00

FILE NAME = 210049-eh1-vssheets.dgn
DESIGNED - J.W.F.
DRAWN - T.W.K.
CHECKED - S.W.M.
DATE - 09/07/2021

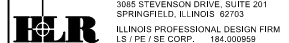
USER NAME = rmosick
REVISIED -
REVISIED -
REVISIED -
REVISIED -
PLOT SCALE = \$SCALE\$
PLOT DATE = 9/7/2021

STATE OF ILLINOIS
DEKALB COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

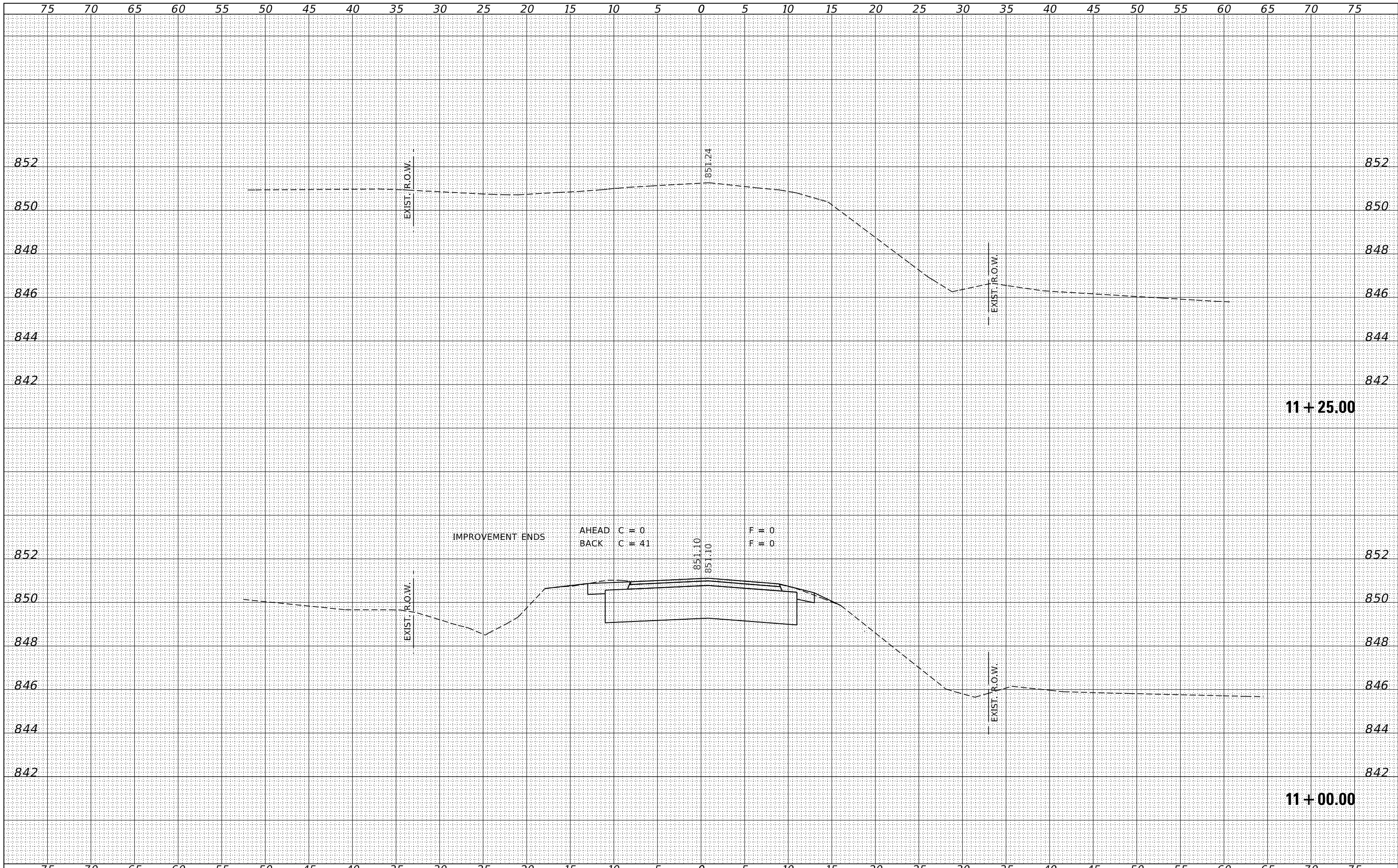
SCALE: 5H:2V SHEET NO. 4 OF 5 SHEETS STA. 10+33.00 TO STA. 10+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-03123-00-BR	DEKALB	22	21
GENOA ROAD DISTRICT		CONTRACT NO. 87767		



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

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



FILE NAME = 210049-ehf-xssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 09/07/2021
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 9/7/2021

DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 09/07/2021
 REVISIONS:
 REVISION NO. | DESCRIPTION
 - | -

STATE OF ILLINOIS
 DEKALB COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 5 OF 5 SHEETS
 STA. 11+00.00 TO STA. 11+25.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
244	17-03123-00-BR	DEKALB	22	22
GENOA ROAD DISTRICT		CONTRACT NO. 87767		
ILLINOIS FED. AID PROJECT X6FH(897)				

