

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED BOX CULVERT EXTENSION LOCAL FUNDS PROJECT

INDEX OF SHEETS

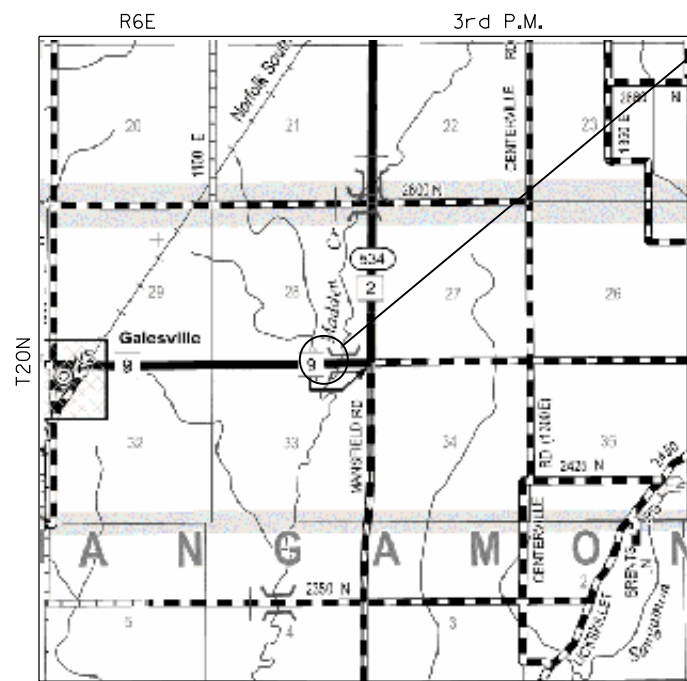
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STANDARDS (IN PROPOSAL)

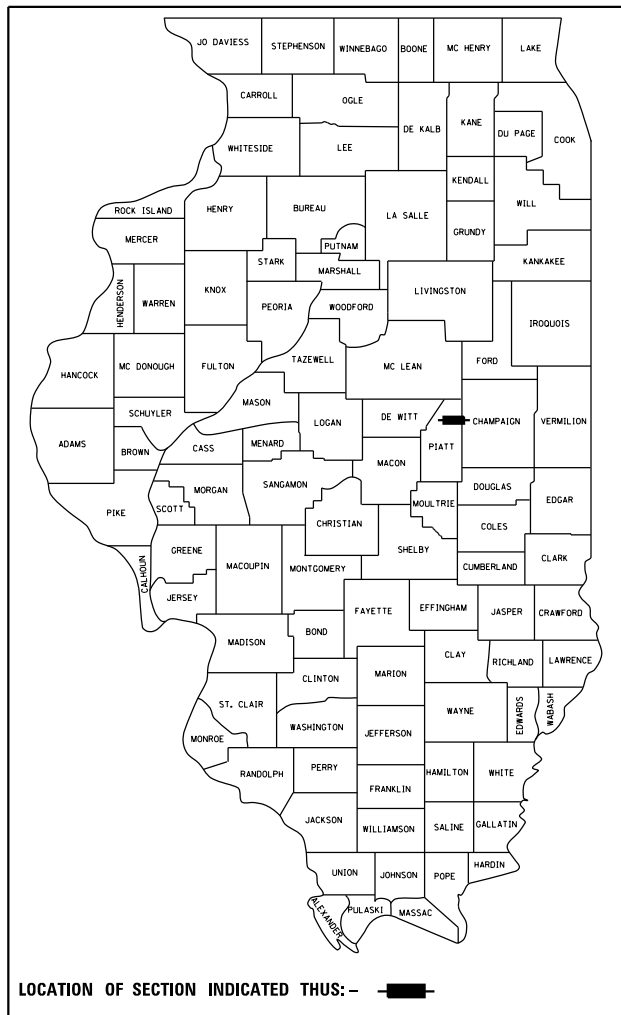
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
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635001-02	DELINEATORS
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720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS

CH 9 (E 2500 N ROAD) OVER MADDEN CREEK OVERFLOW CAB 20-09-222 PIATT COUNTY

UTILITY COMPANIES:
NO PROJECT UTILITIES.

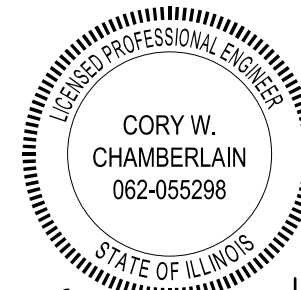


PROPOSED
CAB 20-09-222
BEGINS STA. 55 + 00.00
ENDS STA. 69 + 09.73
EXIST. SN N/A

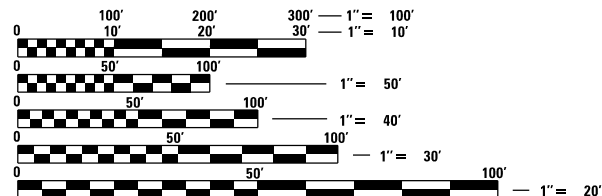


LOCATION OF SECTION INDICATED THUS: - ■ -

FUNCTIONAL CLASSIFICATION = MINOR COLLECTOR
ADT = 225
DESIGN SPEED = 30 MPH
3R GUIDELINES



Cory W. Chamberlain
1/10/25
Expires: 11/30/2025



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT MANAGER: CORY W. CHAMBERLAIN, P.E., S.E.



THE WORK CONSISTS OF CONSTRUCTING CAST-IN-PLACE CONCRETE EXTENSIONS ON THE EXISTING DOUBLE-CELL BOX CULVERT AT STA. 57+54.00, EARTHWORK TO WIDEN THE EXISTING EMBANKMENT AND CREATE NEW ROADSIDE DITCHES TO ACCOMMODATE A FUTURE PROFILE GRADE RAISE AND OTHER COLLATERAL WORK.

TOTAL LENGTH = 709.73 FEET (0.135 MI)
NET LENGTH = 709.73 FEET (0.135 MI)

AGENCY RESPONSIBLE FOR LETTING
APPROVED *[Signature]* January 13 20 25
COUNTY ENGINEER

Operator: bjohnson Date: 12/24/2024 F:\Lenamz C:\SP\WHKS & CD\Jobs\Spring - Projects\Platt County\113 CH 9\CADD\CAD_Sheets\113-SHT-PHASE1-cover-001.dgn

GENERAL NOTES

1. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
2. ALL ELEVATIONS ARE BASED ON NAVD 88-DATUM.
3. WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
4. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT ITEMS INVOLVED.
5. THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN. ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
6. THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 AGGREGATE SHOULDERS: 2.05 TONS/CU YD
 TEMPORARY EROSION CONTROL SEEDING: 100 LB/ACRE
 POROUS GRANULAR EMBANKMENT: 1.90 TONS/CU YD
 RIPRAP: 1.50 TONS/CU YD
7. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.
8. DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.
9. THE CONTRACTOR SHALL USE CARE IN ALL REMOVAL ACTIVITIES NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
10. CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED. ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED, REPAIRED AND CONNECTED TO THE PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS OR AS DIRECTED BY THE ENGINEER.
11. EMBANKMENTS ON HILLSIDES OR SLOPES SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 205.03.

GENERAL NOTES

12. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT SITE.
13. THE CONTRACTOR SHALL LEAVE EXISTING GUARDRAIL IN PLACE UNTIL THE ENGINEER HAS DETERMINED THE PROPOSED IMPROVEMENTS HAVE BEEN CONSTRUCTED TO A POINT THAT THE SIDE SLOPES AND CULVERT ARE NO LONGER A HAZARD TO THE TRAVELING PUBLIC.

COMMITMENTS

1. THIS PROJECT HAS NO COMMITMENTS.

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 PROJECT: Piatt County Highway Department-001.dgn

design firm
 no. 184001036

 engineers + planners + land surveyors

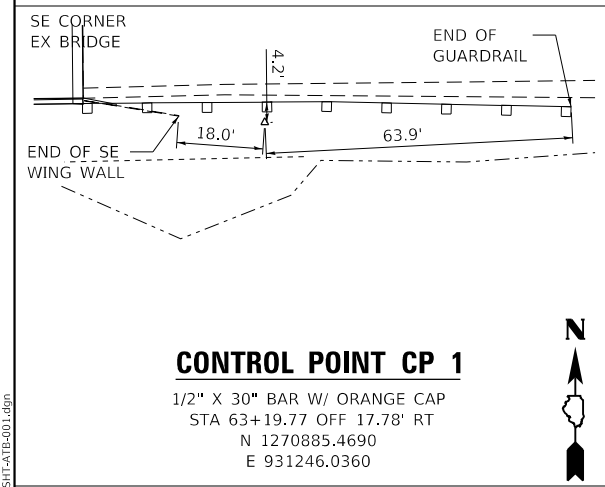
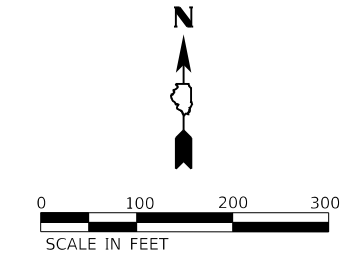
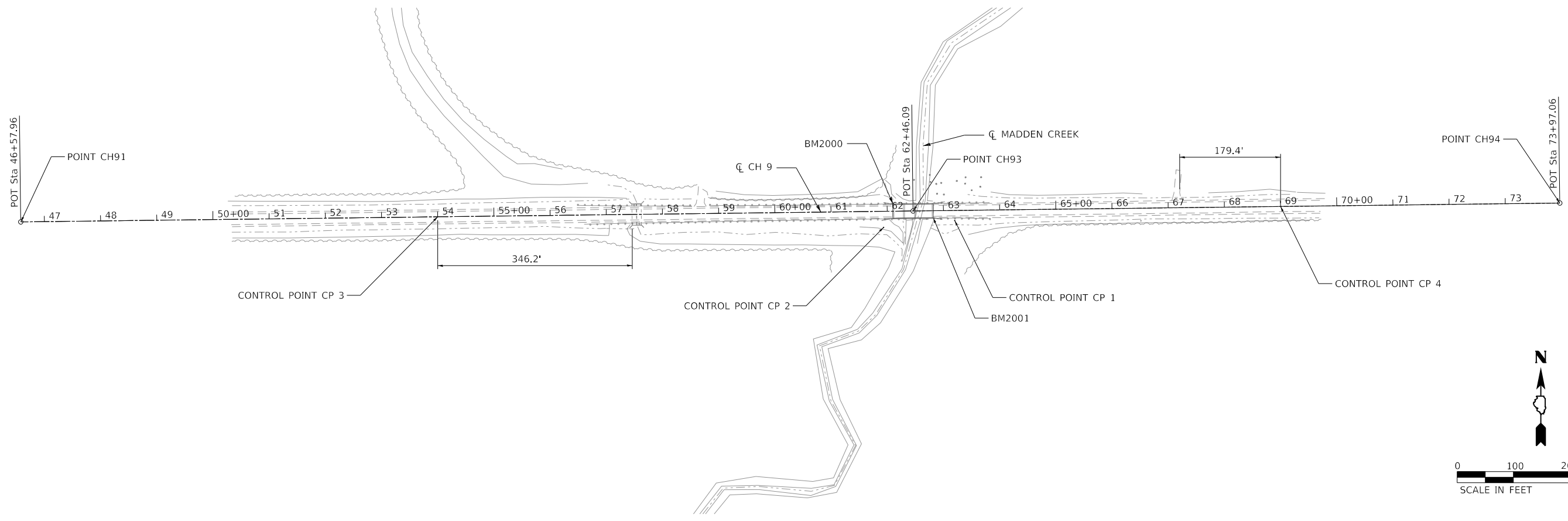
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PIATT COUNTY HIGHWAY DEPARTMENT

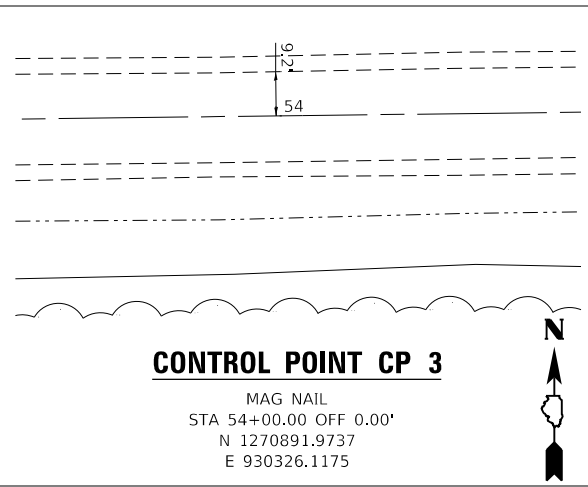
**GENERAL NOTES AND COMMITMENTS
C.H. 9 OVER MADDEN CREEK**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

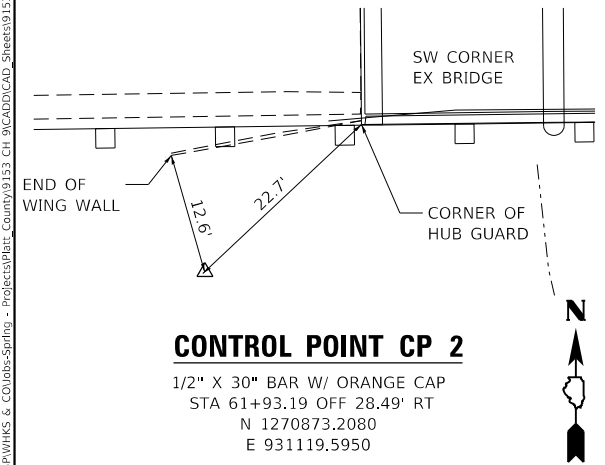
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9	CAB-20-09-222	PIATT	28	2
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



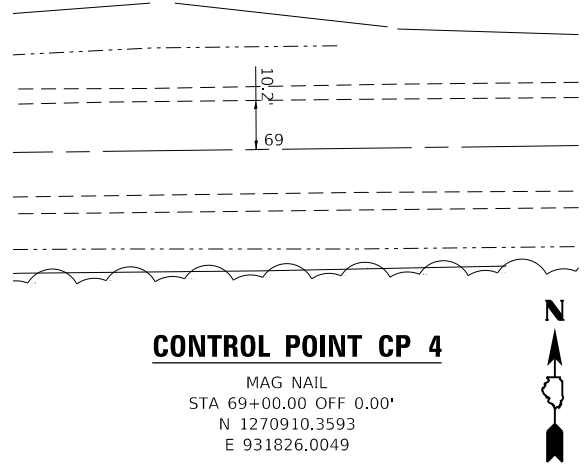
CONTROL POINT CP 1
 1/2" X 30" BAR W/ ORANGE CAP
 STA 63+19.77 OFF 17.78' RT
 N 1270885.4690
 E 931246.0360



CONTROL POINT CP 3
 MAG NAIL
 STA 54+00.00 OFF 0.00'
 N 1270891.9737
 E 930326.1175



CONTROL POINT CP 2
 1/2" X 30" BAR W/ ORANGE CAP
 STA 61+93.19 OFF 28.49' RT
 N 1270873.2080
 E 931119.5950



CONTROL POINT CP 4
 MAG NAIL
 STA 69+00.00 OFF 0.00'
 N 1270910.3593
 E 931826.0049

Chain CH9 contains:
 CH91 CH93 CH94

Beginning chain CH9 description
 Feature: Geom Ex Centerline

Point CH91	N	1,270,882.8785	E	929,584.1289	Sta	46+57.96
Course from CH91 to CH93 N 89° 17' 51.74" E Dist 1,588.1294						
Point CH93	N	1,270,902.3442	E	931,172.1390	Sta	62+46.09
Course from CH93 to CH94 N 89° 17' 51.74" E Dist 1,150.9726						
Point CH94	N	1,270,916.4518	E	932,323.0251	Sta	73+97.06

Ending chain CH9 description

BENCHMARK BM2000
 STA 62+10.84 OFF 12.08' LT
 CHISELED "X" ON TOP OF HUB GUARD AT NW CORNER OF BRIDGE DECKING.
 ELEV = 687.73

BENCHMARK BM2001
 STA 62+81.87 OFF 12.62' RT
 CUT SQUARE ON TOP OF HUB GUARD AT SE CORNER OF BRIDGE DECKING.
 ELEV = 687.72

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PLOT DATE =	12/24/2024	CHECKED -	CWC	REVISED -	
		DATE -	12/24/2024	REVISED -	

PIATT COUNTY HIGHWAY DEPARTMENT

**ALIGNMENT, TIES, & BENCHMARKS DETAILS
 C.H. 9 OVER MADDEN CREEK**

SCALE: 1" = 100' SHEET 1 OF 1 SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

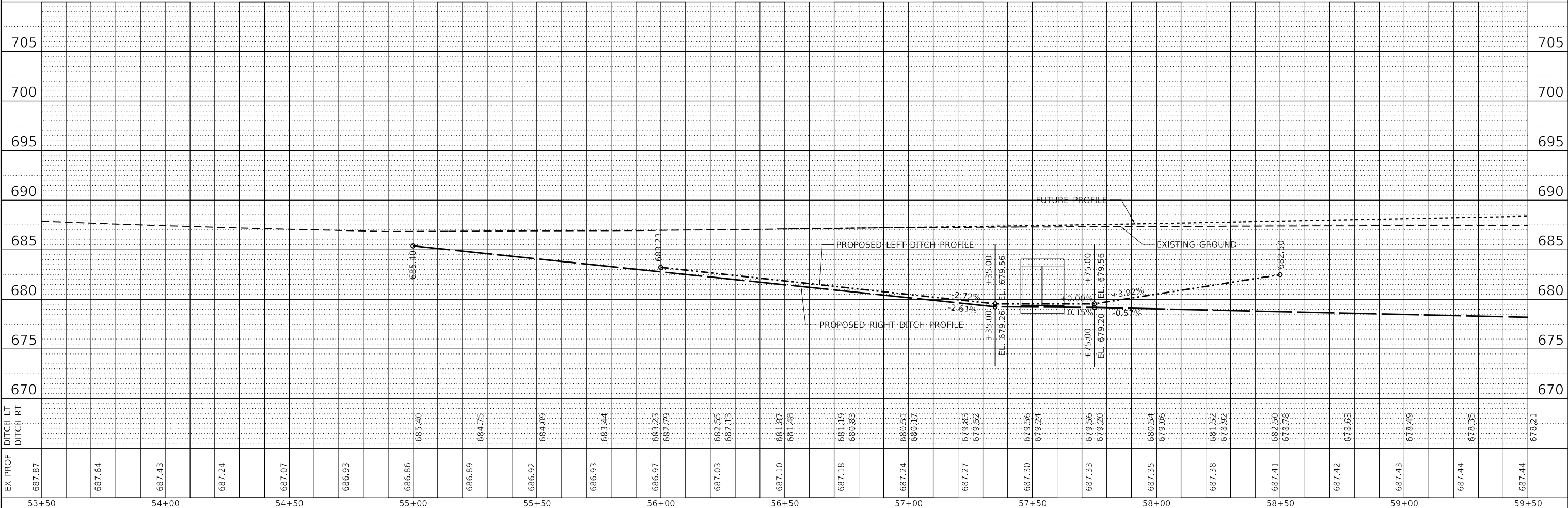
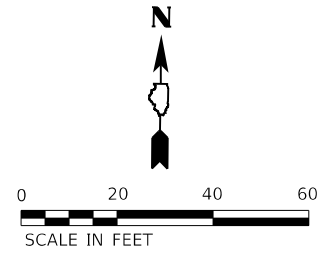
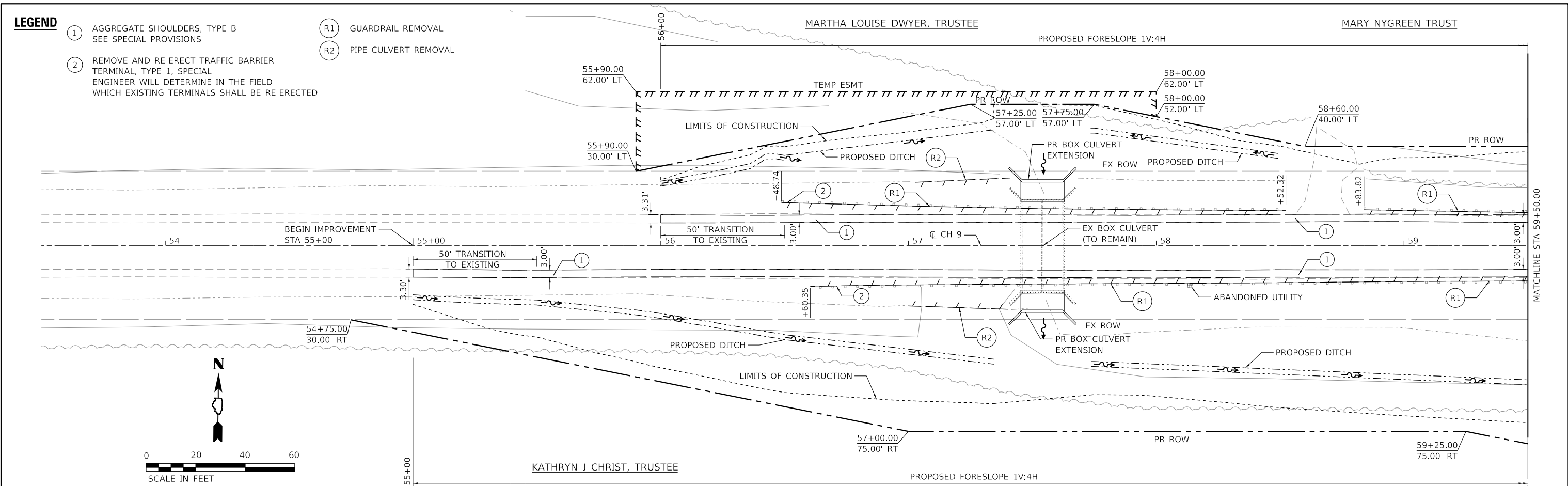
- LEGEND**
- ① AGGREGATE SHOULDERS, TYPE B
SEE SPECIAL PROVISIONS
 - ② REMOVE AND RE-ERECT TRAFFIC BARRIER
TERMINAL, TYPE 1, SPECIAL
ENGINEER WILL DETERMINE IN THE FIELD
WHICH EXISTING TERMINALS SHALL BE RE-ERECTED

- (R1) GUARDRAIL REMOVAL
- (R2) PIPE CULVERT REMOVAL

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
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	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

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53+50	54+00	54+50	55+00	55+50	56+00	56+50	57+00	57+50	58+00	58+50	59+00	59+50													
687.87	687.64	687.43	687.24	687.07	686.93	686.86	686.89	686.92	686.93	686.97	687.03	687.10	687.18	687.24	687.27	687.30	687.33	687.35	687.38	687.41	687.42	687.43	687.44	687.44	
DITCH LT																									
DITCH RT																									

design firm
no. 184001036
whks
engineers + planners + land surveyors

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PLOT SCALE = 480,0000' / ft.	DRAWN - LNJ	REVISED -
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	DATE - 12/24/2024	REVISED -

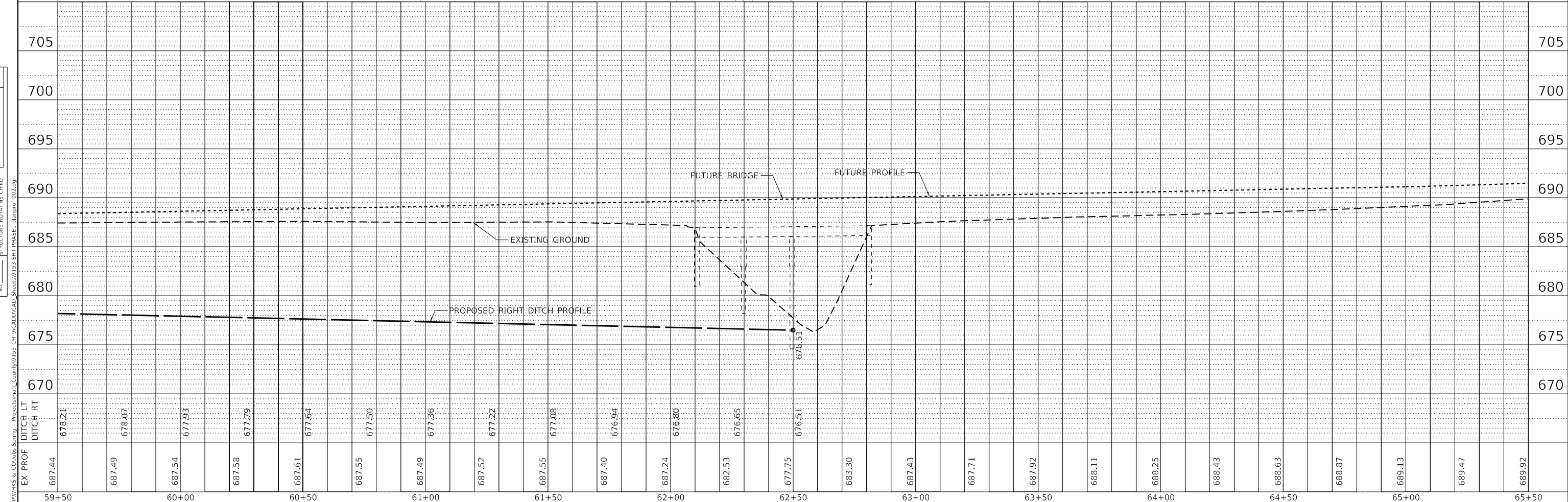
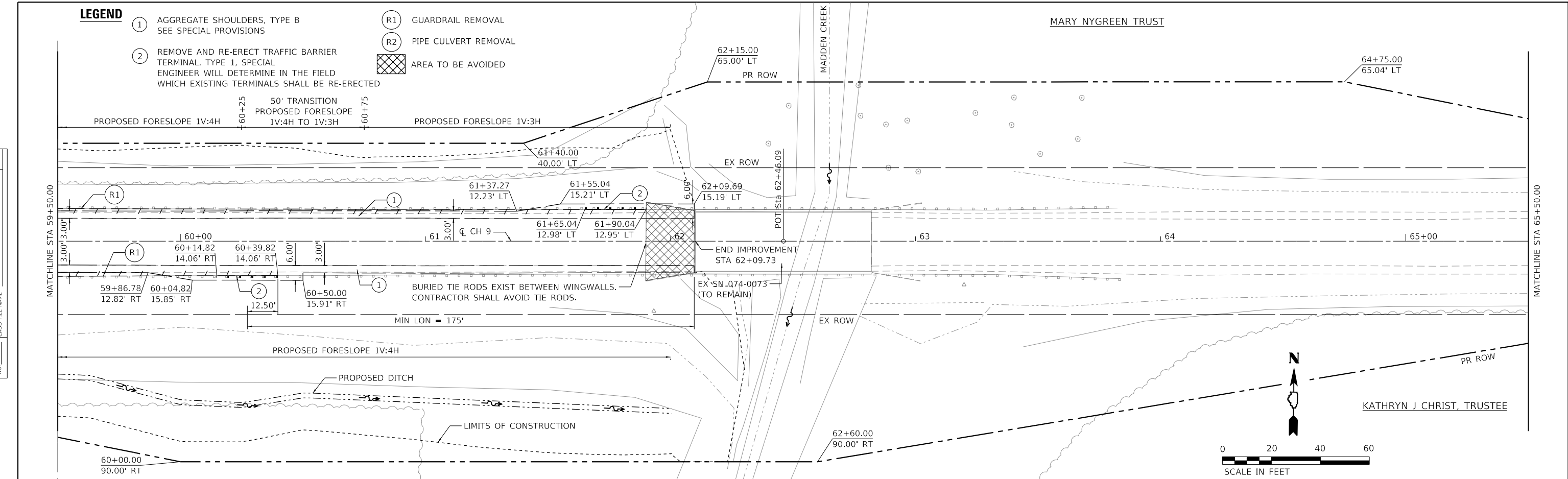
PIATT COUNTY HIGHWAY DEPARTMENT

PLAN AND PROFILE			
C.H. 9 OVER MADDEN CREEK			
SCALE: 1" = 20'	SHEET 1	OF 3 SHEETS	STA. TO STA.

C.H. RTE. 9	SECTION CAB-20-09-222	COUNTY PIATT	TOTAL SHEETS 28	SHEET NO. 9
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



59+50	60+00	60+50	61+00	61+50	62+00	62+50	63+00	63+50	64+00	64+50	65+00	65+50													
687.44	687.49	687.54	687.58	687.61	687.55	687.49	687.52	687.55	687.40	687.24	682.53	677.75	683.30	687.43	687.71	687.92	688.11	688.25	688.43	688.63	688.87	689.13	689.47	689.92	
DITCH LT																									
DITCH RT	678.21	678.07	677.93	677.79	677.64	677.50	677.36	677.22	677.08	676.94	676.80	676.65	676.51												
EX PROF	687.44	687.49	687.54	687.58	687.61	687.55	687.49	687.52	687.55	687.40	687.24	682.53	677.75	683.30	687.43	687.71	687.92	688.11	688.25	688.43	688.63	688.87	689.13	689.47	689.92

design firm
no. 184001036

engineers + planners + land surveyors

USER NAME =	bjohnson	DESIGNED -	LNJ	REVISED -	
		DRAWN -	LNJ	REVISED -	
		CHECKED -	CWC	REVISED -	
		DATE -	12/24/2024	REVISED -	

PIATT COUNTY HIGHWAY DEPARTMENT

PLAN AND PROFILE
C.H. 9 OVER MADDEN CREEK

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	CAB-20-09-222	PIATT	28	10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

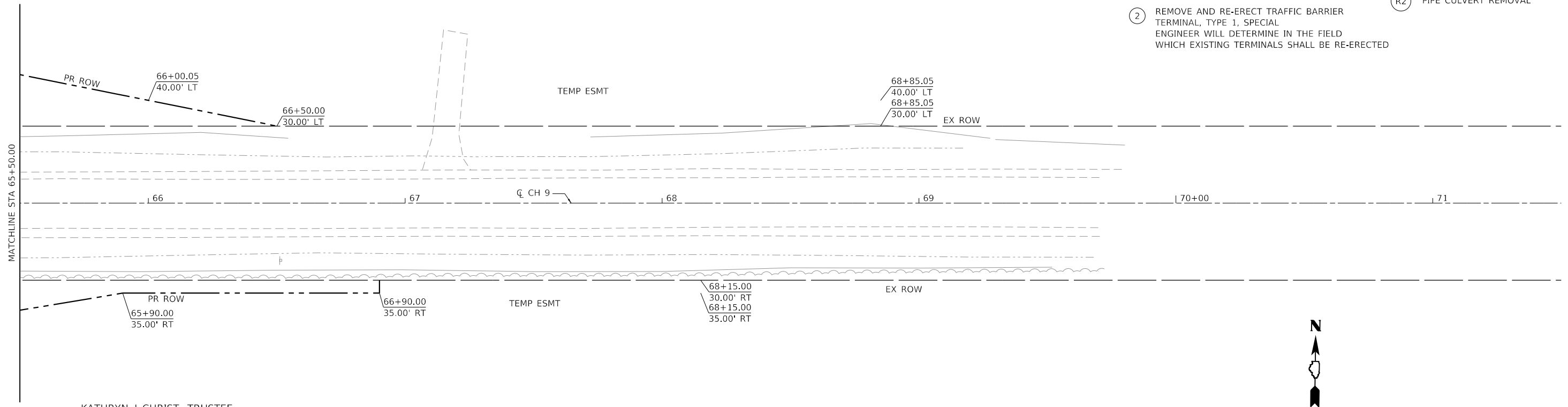
MARY NYGREEN TRUST

LEGEND

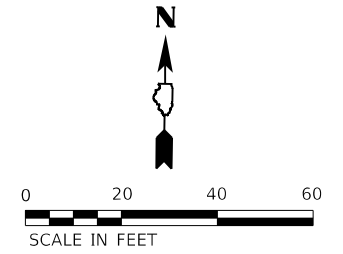
- ① AGGREGATE SHOULDERS, TYPE B
SEE SPECIAL PROVISIONS
- ② REMOVE AND RE-ERECT TRAFFIC BARRIER
TERMINAL, TYPE 1, SPECIAL
ENGINEER WILL DETERMINE IN THE FIELD
WHICH EXISTING TERMINALS SHALL BE RE-ERECTED

- (R1) GUARDRAIL REMOVAL
- (R2) PIPE CULVERT REMOVAL

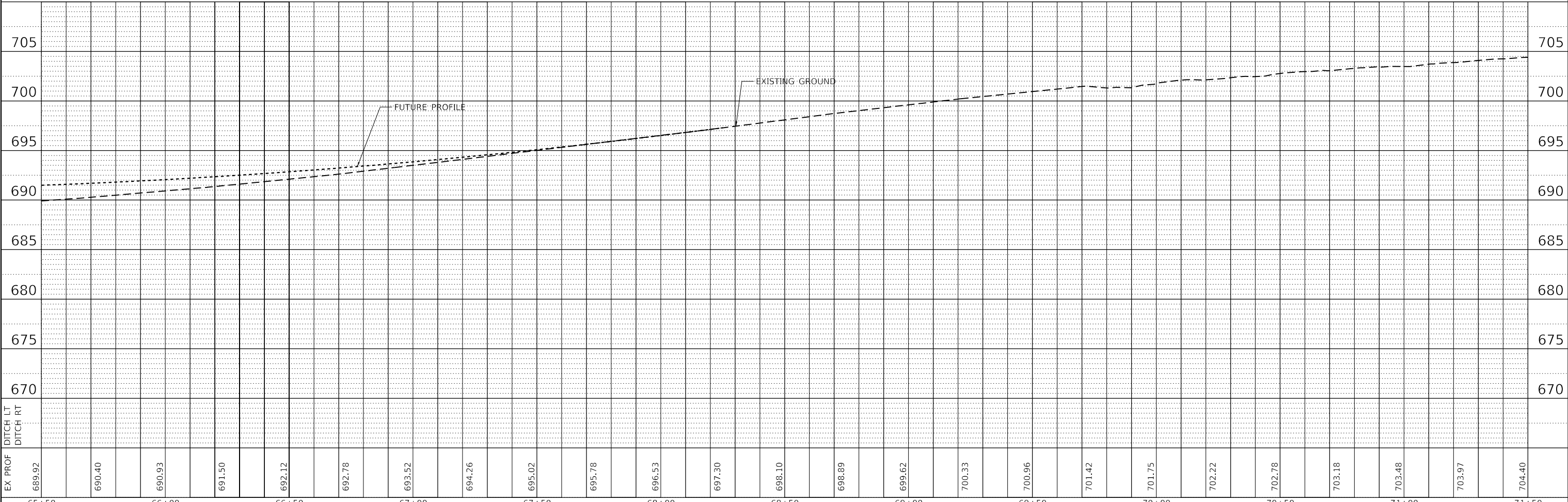
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	NO.	



KATHRYN J CHRIST, TRUSTEE



PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



EX PROF	689.92	690.40	690.93	691.50	692.12	692.78	693.52	694.26	695.02	695.78	696.53	697.30	698.10	698.89	699.62	700.33	700.96	701.42	701.75	702.22	702.78	703.18	703.48	703.97	704.40	
DITCH LT																										
DITCH RT																										
	65+50	66+00	66+50	67+00	67+50	68+00	68+50	69+00	69+50	70+00	70+50	71+00	71+50													

PIATT COUNTY HIGHWAY DEPARTMENT

**PLAN AND PROFILE
C.H. 9 OVER MADDEN CREEK**

design firm
no. 184001036
whks
engineers + planners + land surveyors

USER NAME =	bjohnson	DESIGNED -	LNJ	REVISED -	
		DRAWN -	LNJ	REVISED -	
PLOT SCALE =	480.0000' / ft.	CHECKED -	CWC	REVISED -	
PLOT DATE =	12/24/2024	DATE -	12/24/2024	REVISED -	

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	CAB-20-09-222	PIATT	28	11
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

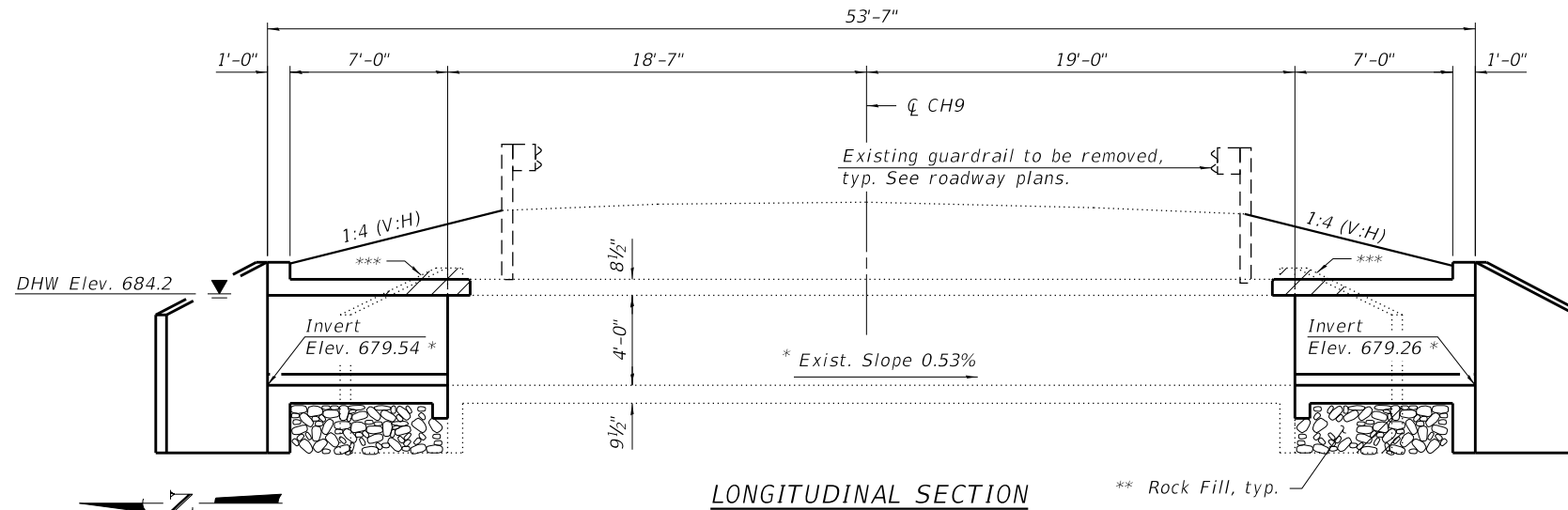
Benchmark: Chiseled "X" on top of hub guardrail at NW Corner of Bridge Decking. Sta 62+10.84. Offset 12.08' Lt. Elev. 687.73

Existing Structure: The existing structure is a two cell reinforced concrete box culvert constructed in 1977. The culvert is 17'-6" back-to-back of sidewalls and the out-to-out of headwalls is 37'-7". The existing culvert is to be widened. Traffic to be open with lane closures during construction. Precast alternate is not allowed.

Salvage: None

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Plan and Section - 8' x 4' Culvert Extension
4. Culvert Details
5. Borings
- 6.-7. Existing Plans (For Information Only)



- * Existing longitudinal slope to be verified and invert elevations adjusted in the field, as required.
- ** The Rock Fill shall be capped with 6" of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of capping material shall be included in the pay item for Rock Fill.
- *** Only remove portions of existing wingwall down to bottom of top slab, typ. Remaining portions of existing wingwall and existing cutoff wall to remain.

DESIGN SPECIFICATIONS

2002 Standard Specifications for Highway Bridges
17th Edition

LOADING HS20-44

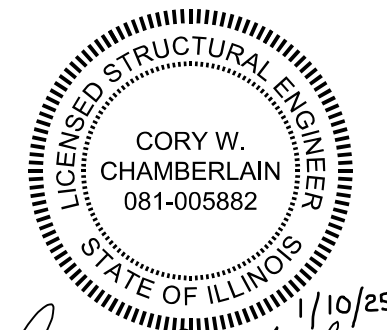
DESIGN STRESSES

FIELD UNITS (New Construction)

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

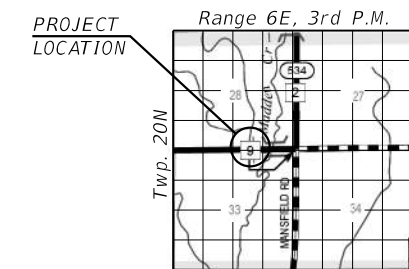
FIELD UNITS (Existing)

f'c = 3,500 psi
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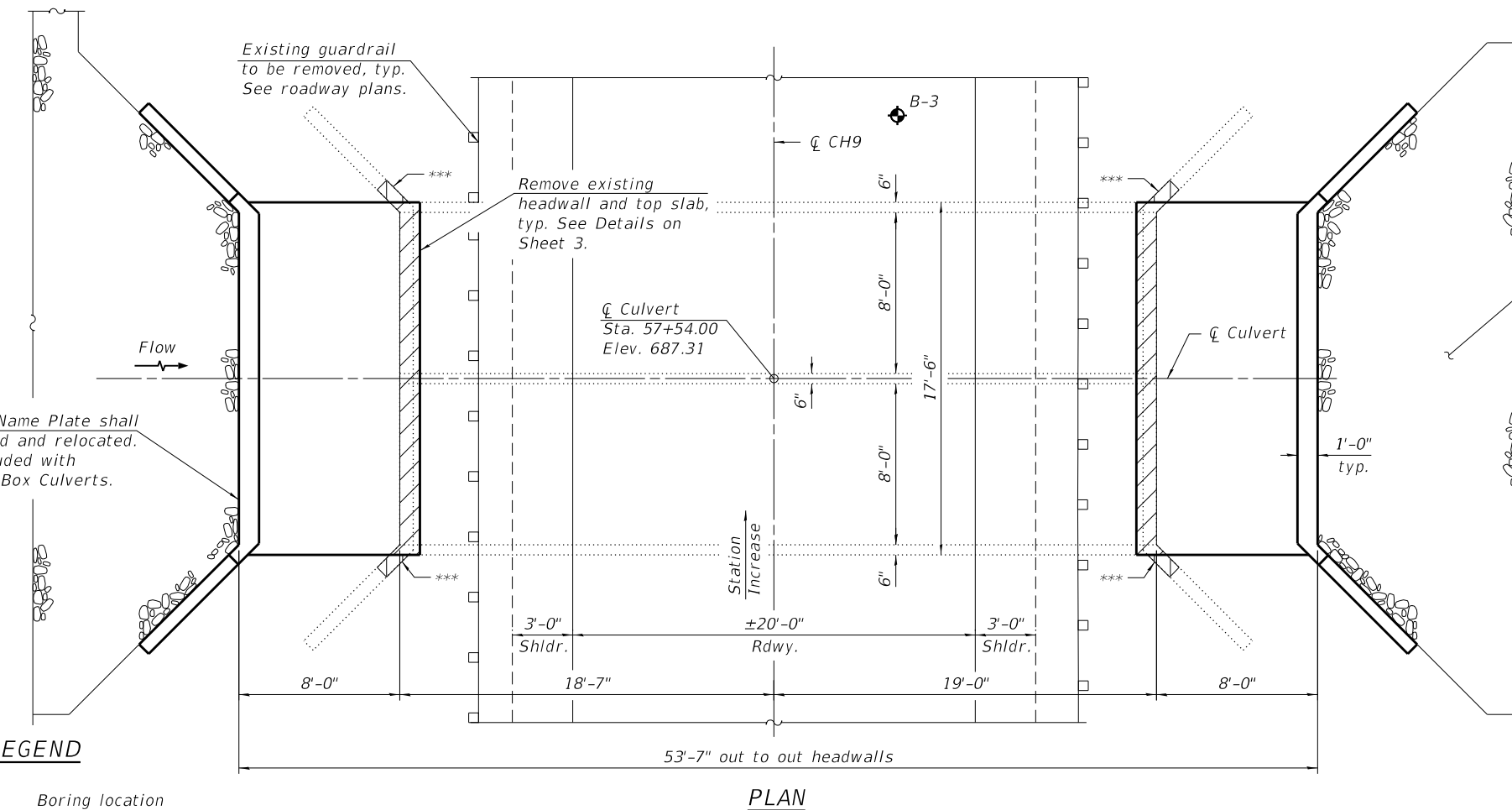
Cory W. Chamberlain
Expires: 11/30/2026

Stone Riprap, Class A4
typ. each end. See roadway plans for limits and quantities.



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
CH9 OVER MADDEN CREEK OVERFLOW
SECTION CAB 02-09-222
PIATT COUNTY
STATION 57+54.00
RELIEF STRUCTURE FOR
STRUCTURE NO. 074-0073**



PLAN

LEGEND

- Boring location
- Approximate limits of concrete removal to facilitate culvert extension.

FILE NAME: SFILES

design firm
no. 184001036



USER NAME = \$USERS	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = \$DATE\$	DRAWN -	REVISED -
PLOT DATE = \$TIME\$	CHECKED -	REVISED -

PIATT COUNTY HIGHWAY DEPARTMENT

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 074-0073 RELIEF STRUCTURE**

SHEET 1 OF 7 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	CAB 02-09-222	PIATT	28	14
CONTRACT NO.				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. Layout of the embankment and riprap may be varied to suit ground conditions in the field as directed by the Engineer.
2. Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for the change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. The existing guardrail post anchorage to existing culvert shall be exposed to unbolt and remove post and base plate. The remaining anchor bolts shall be ground flush and covered with epoxy prior to backfilling. Cost included with Concrete Box Culverts.

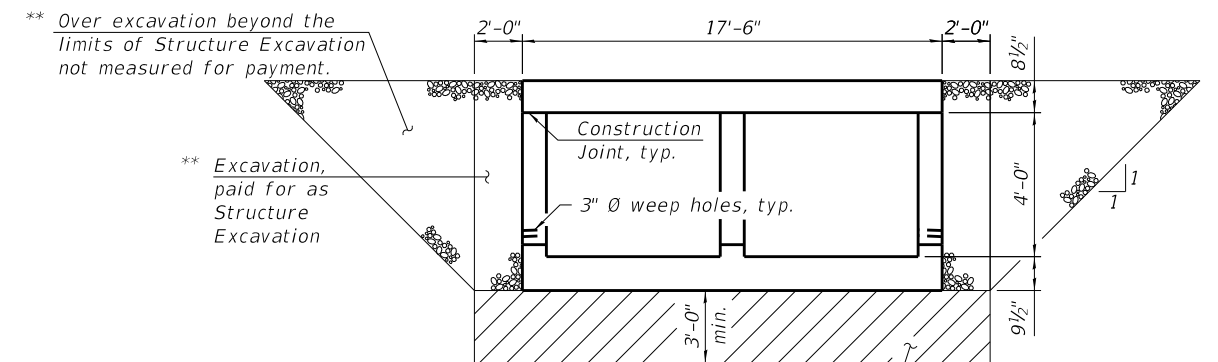
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal and Disposal of Unsuitable Material	Cu Yd	-	38.2	38.2
Porous Granular Embankment	Cu Yd	-	46	46
Concrete Removal	Cu Yd	-	1.5	1.5
Structure Excavation	Cu Yd	-	26	26
Reinforcement Bars	Pound	-	6420	6420
Expansion Bolts 3/4 Inch	Each	-	66	66
Concrete Box Culverts	Cu Yd	-	29.4	29.4
Rock Fill	Cu Yd	-	38.2	38.2

**WATERWAY INFORMATION
(FOR FUTURE CONDITIONS OF PROPOSED SN 074-3315)**

Drainage Area = 16.87 sq. mi.		Existing Low Grade Elevation: 686.86 ft. at Sta. 55+00.00		Proposed Low Grade Elevation: 686.86 ft. at Sta. 55+00.00		Natural H.W.E.	Head (ft)		Headwater Elev. (ft)		
Flood Event	Frequency Year	Total	Discharge (cfs)		Waterway Opening (sq ft)		Existing	Proposed	Existing	Proposed	
	10	1910	Main	1685	431	440	683.8	0.7	0.7	684.5	684.5
			Relief	225	64	64					
	15	2225	Main	1975	445	452	684.0	0.8	0.8	684.8	684.8
			Relief	250	64	64					
Design	20	2435	Main	2180	459	464	684.2	0.9	0.9	685.1	685.1
			Relief	255	64	64					
	30	2735	Main	2465	466	470	684.3	1.1	1.1	685.4	685.4
			Relief	270	64	64					
	50	3080	Main	2780	481	482	684.5	1.3	1.2	685.8	685.7
			Relief	300	64	64					
Base	100	3605	Main	3245	502	528	684.8	1.7	1.5	686.5	686.3
			Relief	360	64	64					
Check	200	4145	Main	3525	516	543	685.0	2.1	1.8	687.1	686.8
			Relief	620	64	64					
Max. Calc.	500	4880	Main	4220	537	566	685.3	2.5	2.1	687.8	687.4
			Relief	660	64	64					

10-Year Velocity through Existing Relief: 3.5 ft/s
10-Year Velocity through Proposed Relief: 2.2 ft/s



* Limits of Removal and Disposal of Unsuitable Material to be backfilled with Rock Fill See Special Provisions.

SECTION THRU BARREL

* The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the Engineer for variable subsurface conditions encountered in the field.

** Backfill with Porous Granular Embankment full length of culvert extension and wing walls. 12" earth cap to be placed at ends of wing walls to cover Porous Granular Embankment. Cost included with Porous Granular Embankment.

FILE NAME: SFILES

design firm no. 184001036



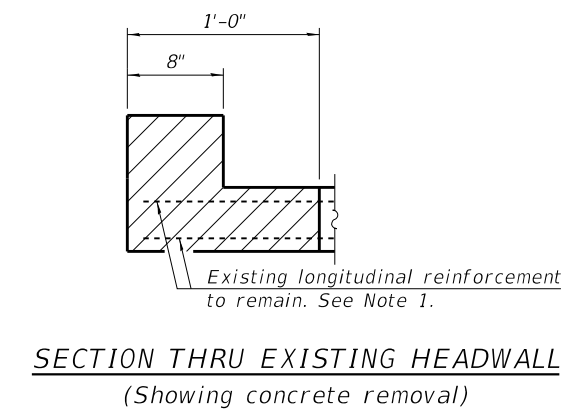
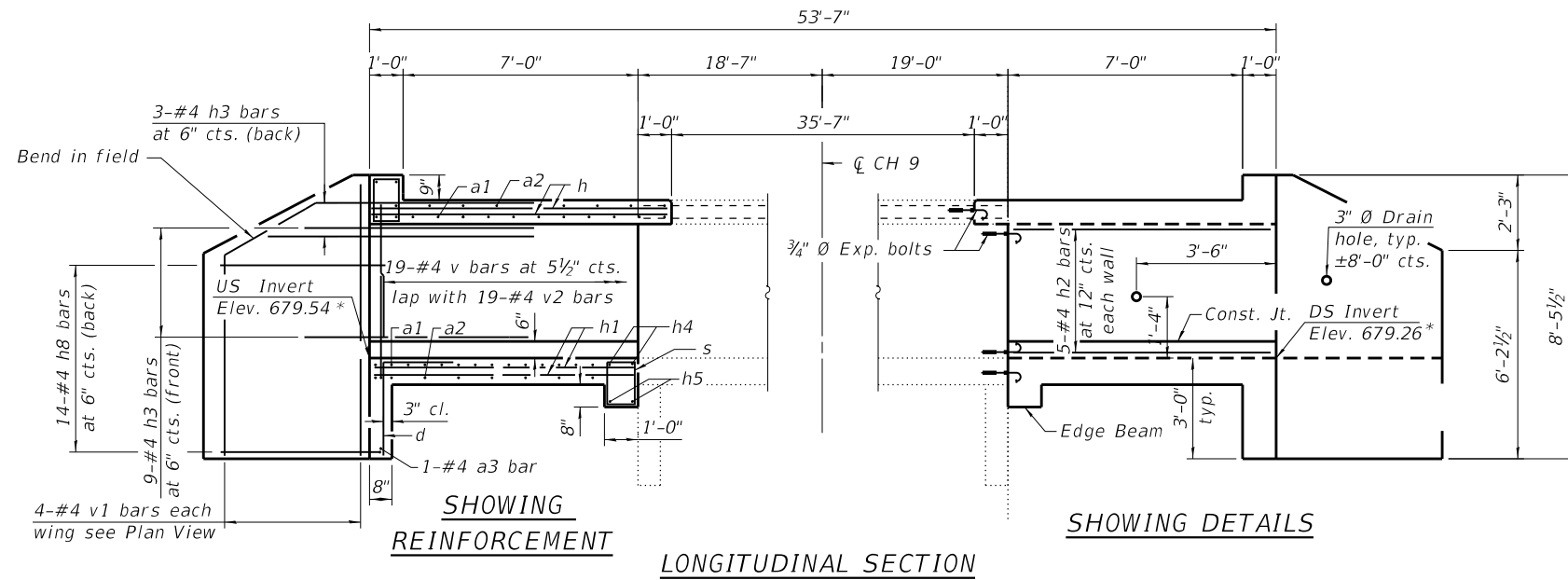
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PIATT COUNTY HIGHWAY DEPARTMENT

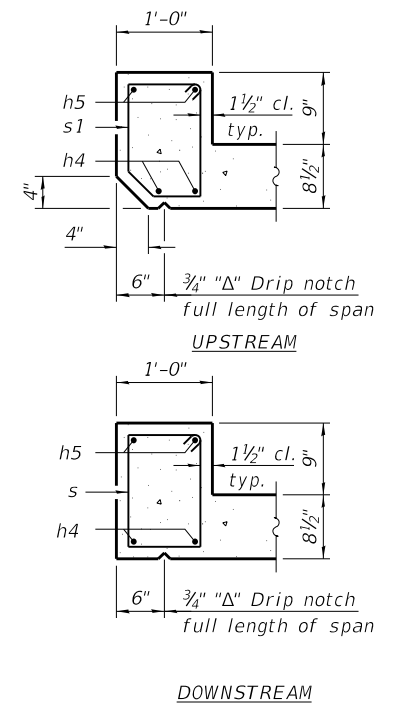
**GENERAL DATA
STRUCTURE NO. 074-0073 RELIEF STRUCTURE**

SHEET 2 OF 7 SHEETS

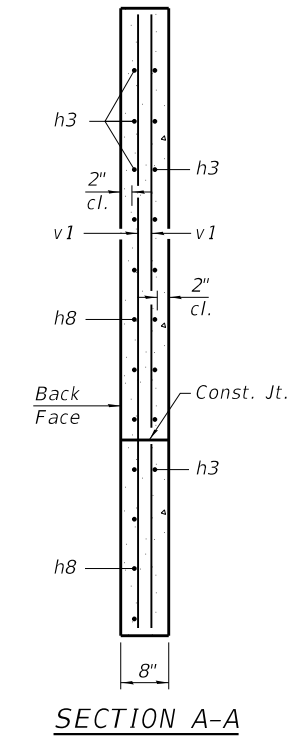
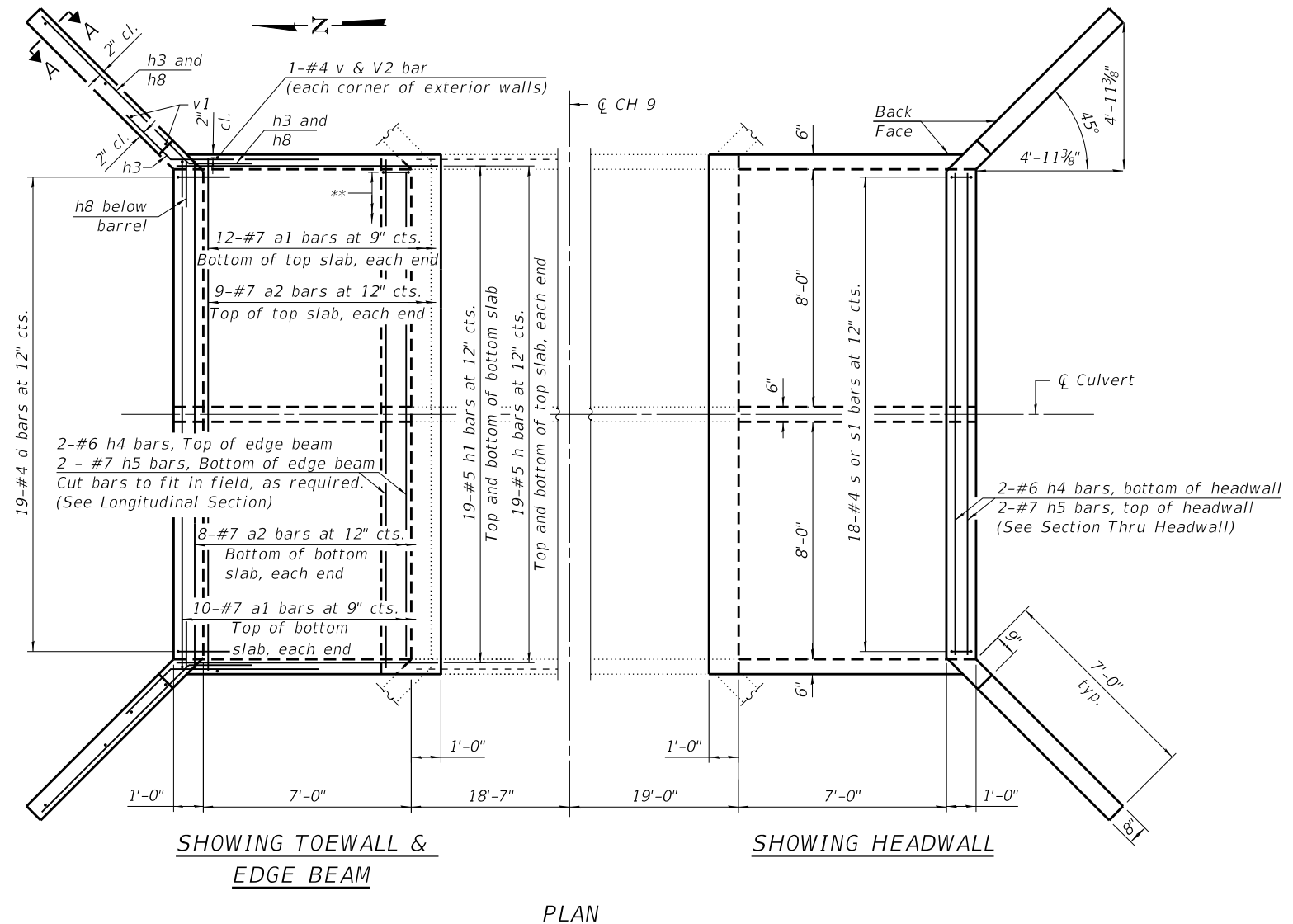
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	CAB 02-09-222	PIATT	28	15
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

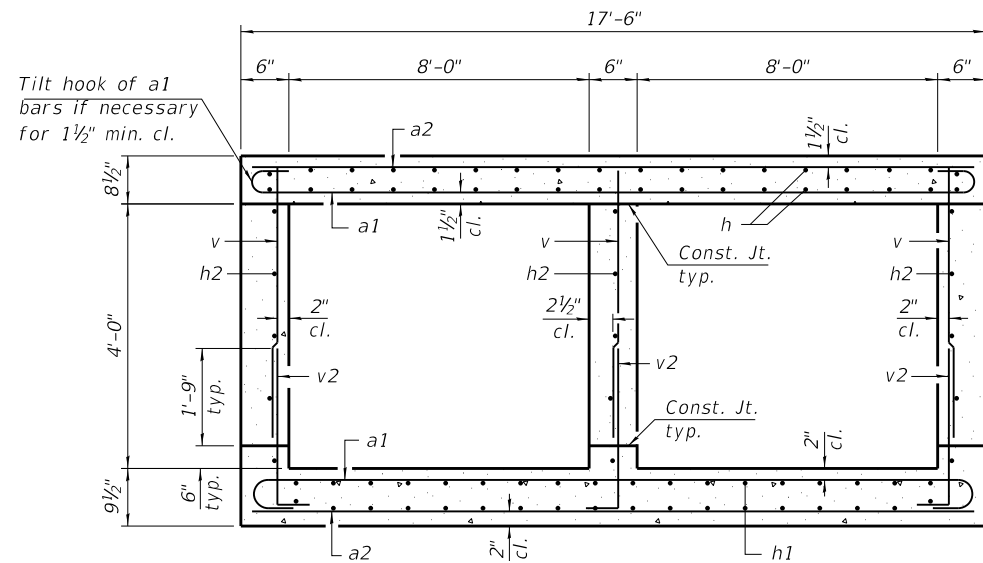


Note:
1. Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

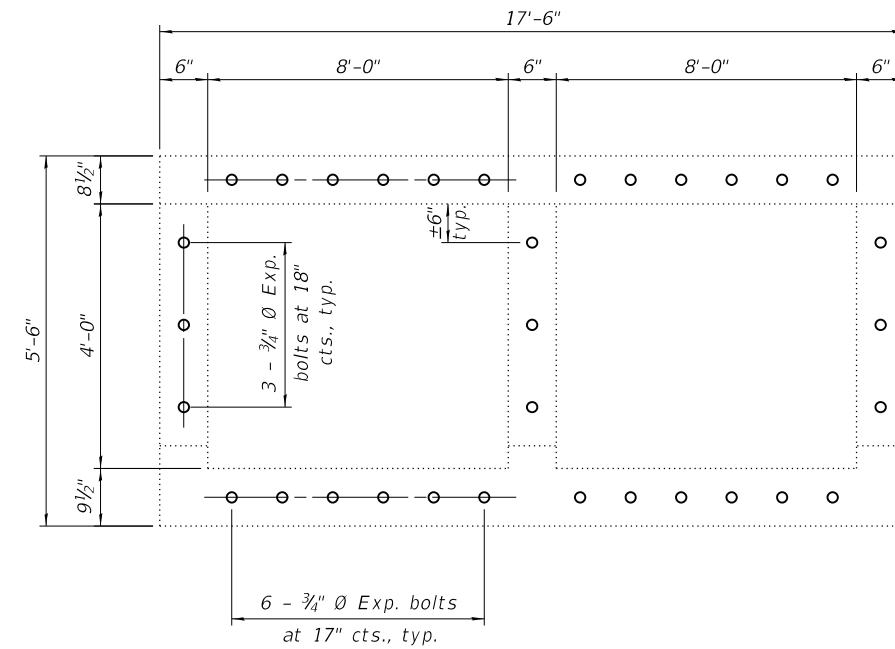


* Existing longitudinal slope to be verified and invert elevations adjusted in the field, as required.





SECTION THRU BARREL



EXISTING BARREL END

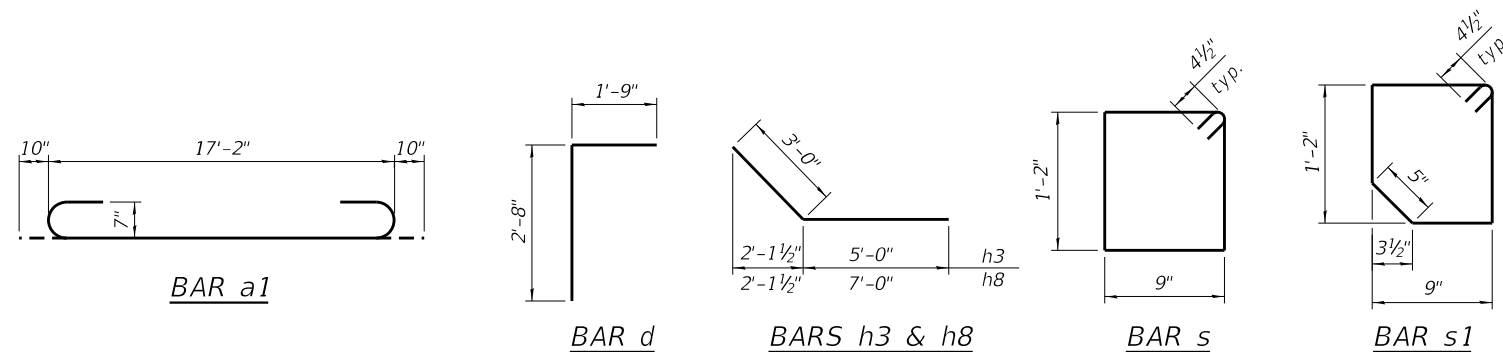
Expansion bolts shall be 3/4" diameter hooked bolts.
Hooked bolts shall extend a minimum of 9" into new concrete.

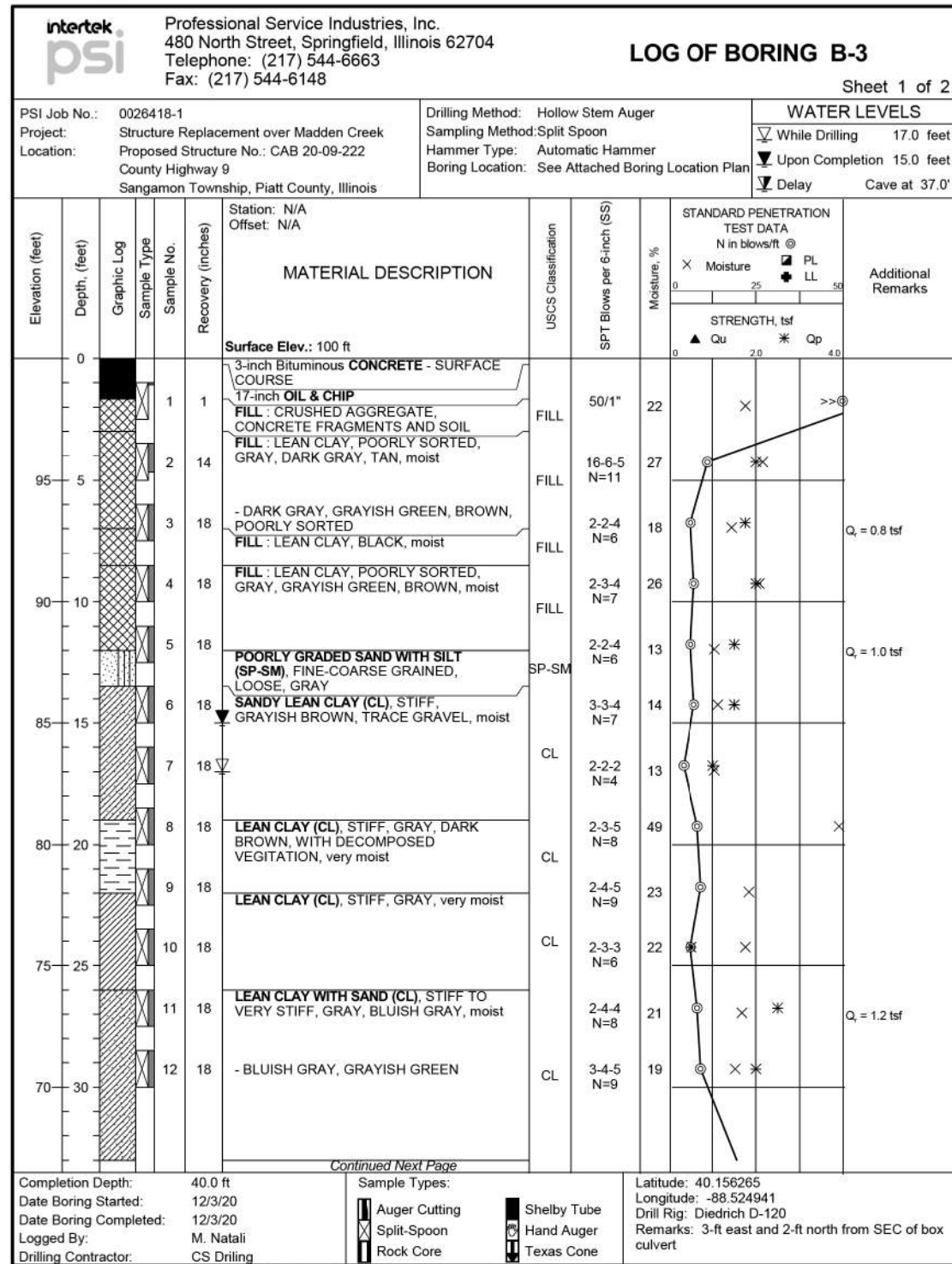
Notes:

1. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
2. At the Contractor's option, a longer v2 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.

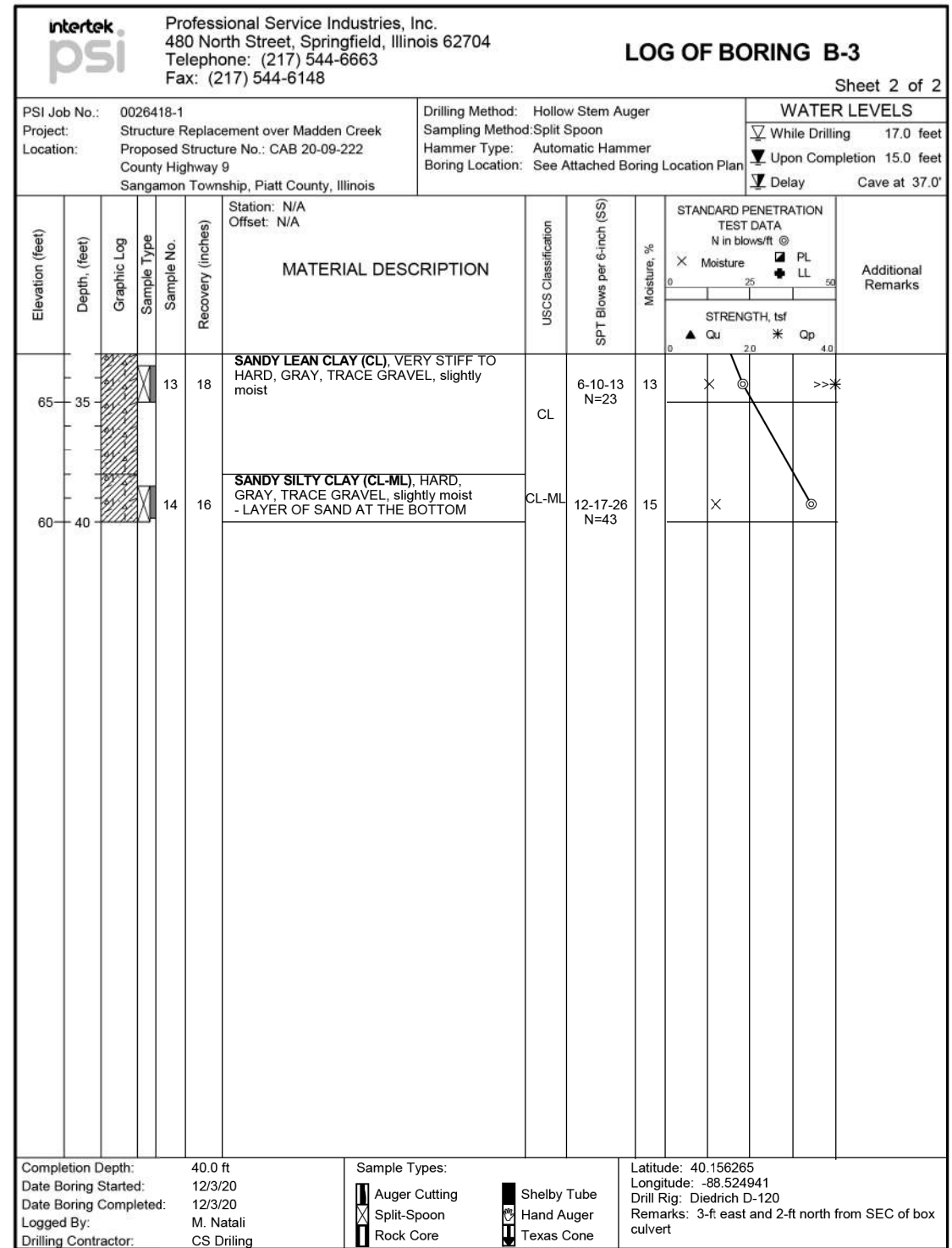
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	44	#7	18'-10"	
a2	34	#7	17'-2"	
a3	2	#4	17'-2"	
d	38	#4	4'-5"	
h	76	#5	8'-8"	
h1	76	#5	7'-8"	
h2	30	#4	7'-8"	
h3	48	#4	8'-0"	
h4	8	#6	17'-2"	
h5	8	#7	16'-2"	
h8	56	#4	10'-0"	
s	54	#4	4'-7"	
s1	18	#4	4'-5"	
v	118	#4	3'-11"	
v1	16	#4	8'-1"	
v2	118	#4	2'-11"	
Concrete Box Culverts			Cu. Yd.	29.4
Reinforcement Bars			Pound	6,420





The stratification lines represent approximate boundaries. The transition may be gradual.



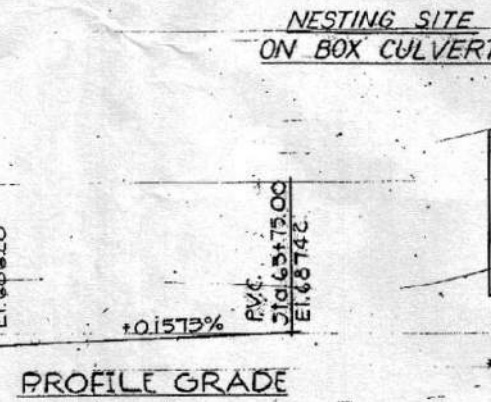
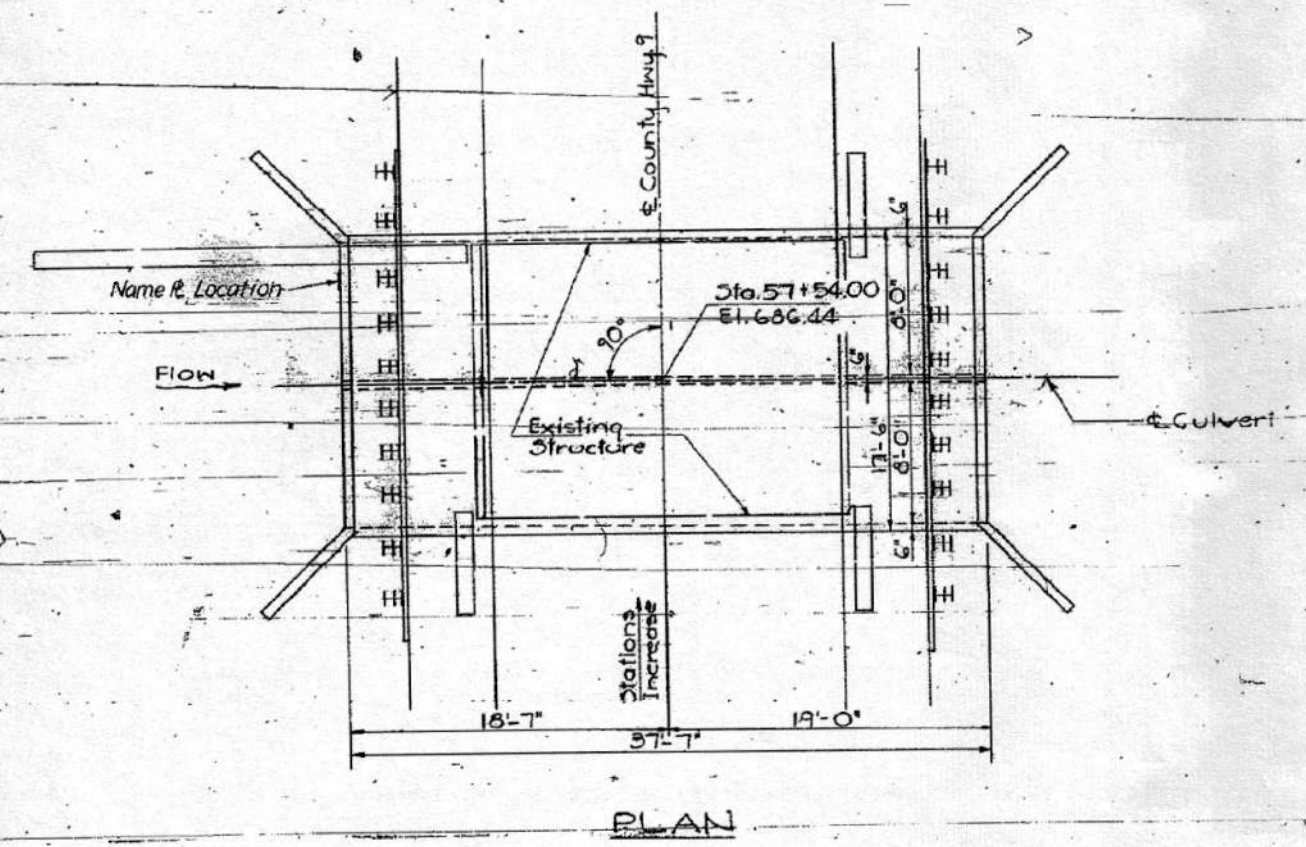
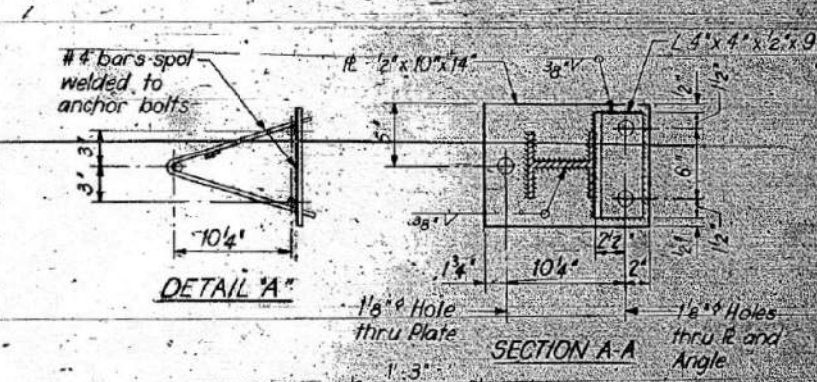
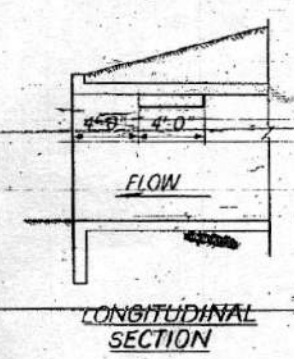
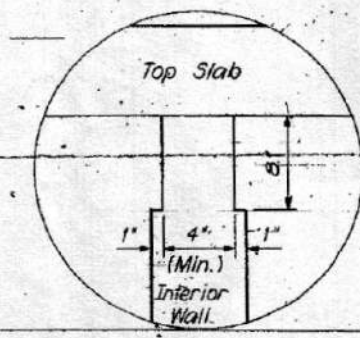
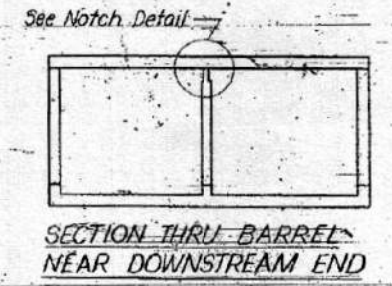
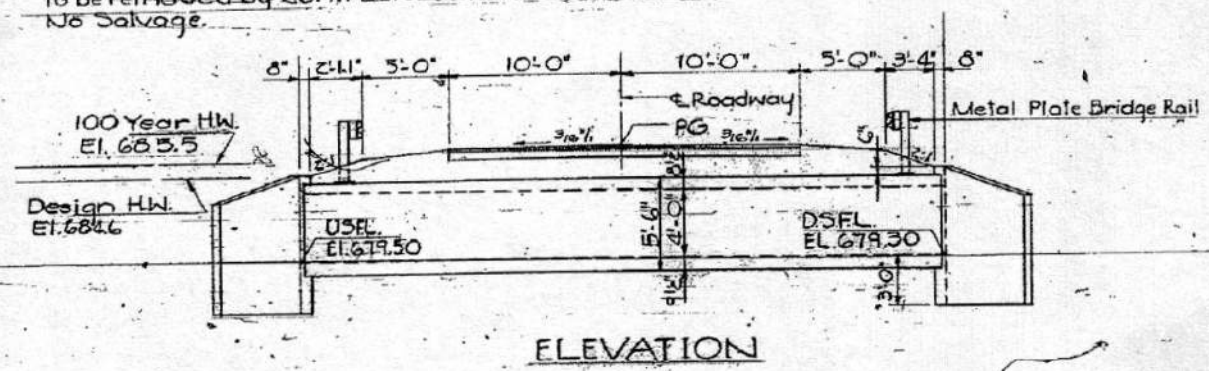
The stratification lines represent approximate boundaries. The transition may be gradual.

Existing Structure: Sta. 74+60.5 Built as JA. Rebuilt in 1932. Superstructure - 6" Concrete slab on 8" I-Beams. Substructure - Closed End Abutments. To be removed by Contractor when road is closed. No Salvage.

GENERAL NOTES
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

TOTAL BILL OF MATERIAL

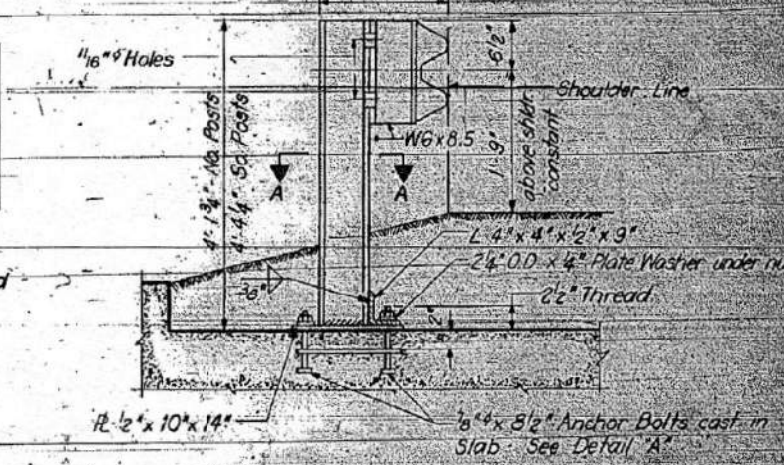
Item	Unit	Total
Class X Concrete	Cu Yds	52.2
Reinforcement Bars	Lbs.	9420
Name Plates	Each	1
Removal of Existing Structures	Each	1



STATION 57+54 MADDEN CREEK OVERFLOW BUILT 19 BY STATE OF ILLINOIS SECTION 76-00222-00-BR LOADING HS 20

NAME PLATE
See Std. 2113
*Structure No. to be provided by the District.

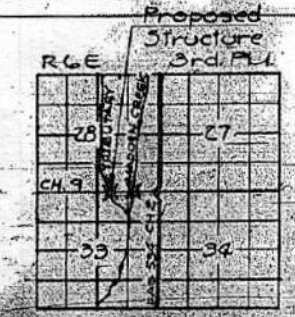
DESIGN STRESSES
f_y = 60,000 psi
f_c = 3500 psi
n = 8.5



SPECIAL GUARDRAIL POST DETAIL
Posts shall be spaced at 16'-3" cfs. See Std. 2230-10 for details of rail element. Location of Posts to be determined in the field by the Engineer. Cost of anchorage and posts incidental to Steel Plate Beam Guardrail. All posts and accessories shall be galvanized in accordance with AASHTO M-111.

WATERWAY INFORMATION

	MAIN STRUCTURE	OVERFLOW STRUCTURE	COMBINED STRUCTURES
Drainage Area	15.2 Sq Miles	1.3 Sq Miles	16.5 Sq Miles
Design Discharge (15 Year)	1690 cfs	350 cfs	2040 cfs
Existing Opening (below 15 Year HWE)	373 Sq Ft	75 Sq Ft	448 Sq Ft
Required Opening (below 15 Year HWE)	446 Sq Ft	64 Sq Ft	510 Sq Ft
Proposed Opening (below 15 Year HWE)	446 Sq Ft	64 Sq Ft	510 Sq Ft
Created Head for Design Flood	0.5 Ft	0.5 Ft	0.5 Ft
100 Year Discharge	2760 cfs	680 cfs	3440 Sq Ft
Created Head for 100 Year Flood	0.89 Ft	0.89 Ft	0.89 Ft
100 Year HWE	685.5	685.5	685.5



DESIGNED: [Signature]
CHECKED: Dan Miller
DRAWN: J.S.
CHECKED: D.S.C.

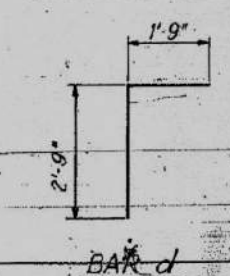
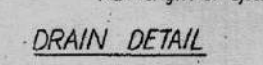
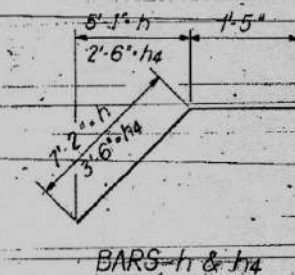
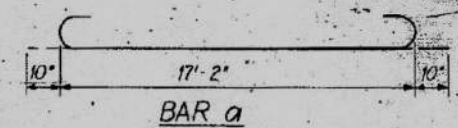
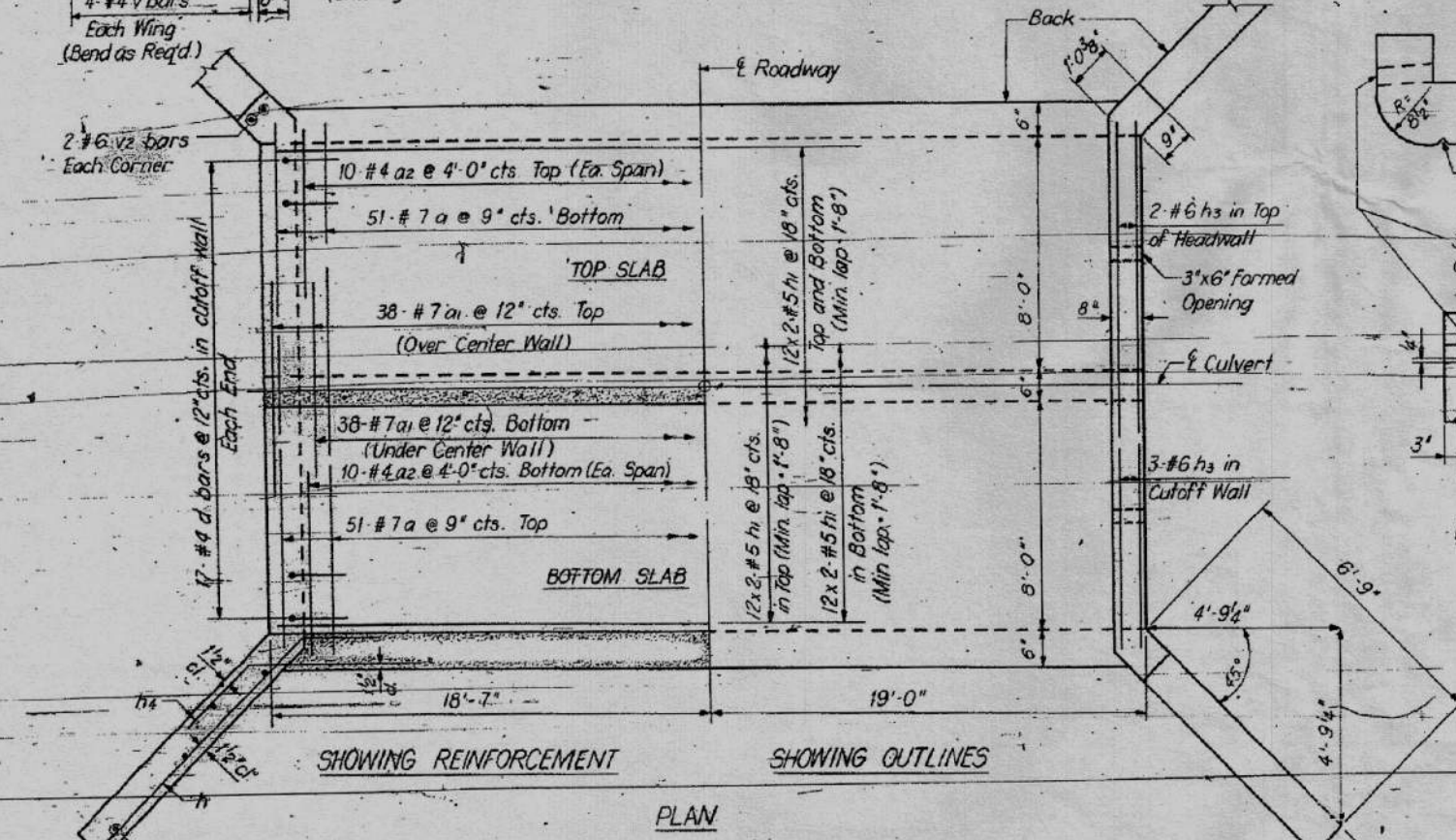
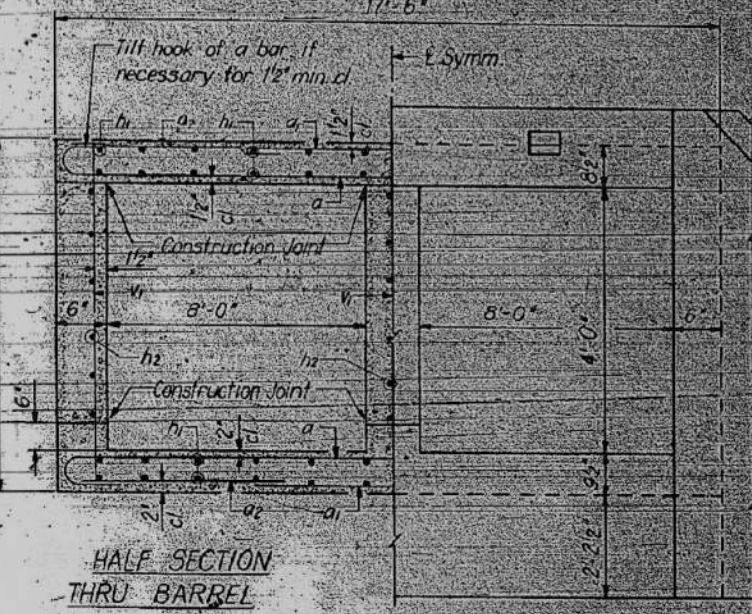
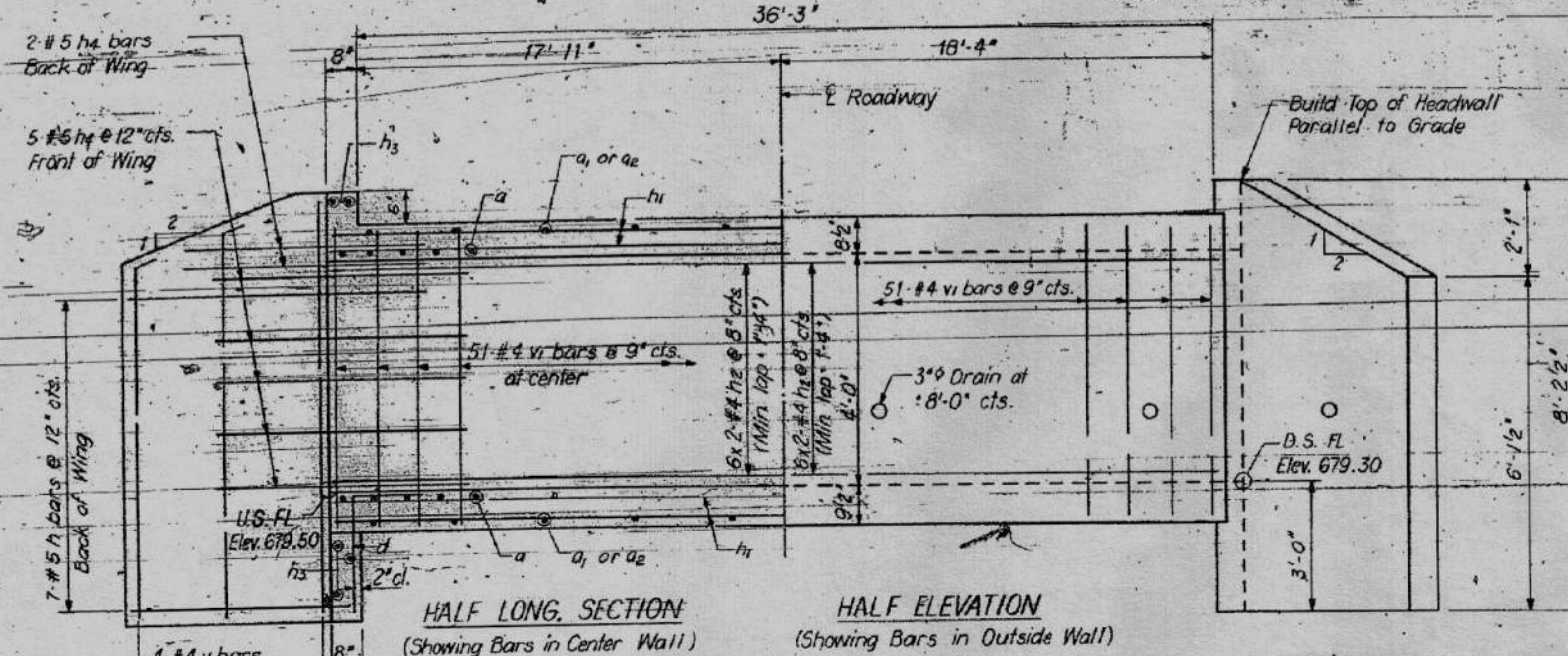
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PASSED: [Signature]
APPROVED: [Signature]

GENERAL PLAN & ELEVATION
CH. 9 OVER MADDEN CREEK OVERFLOW
COUNTY HIGHWAY 9
SECTION 76-00222-00-BR
PIATT COUNTY
STATION 57+54.00

DESIGN LOADING HS20-44

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	21	9	2 SHEETS
BY			
CHECKED			
APPROVED			



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a	102	#7	18'-10"	
a1	76	#7	9'-6"	
a2	40	#4	5'-3"	
d	34	#4	4'-6"	
h	28	#5	8'-7"	
h1	96	#5	19'-6"	
h2	36	#4	19'-3"	
h3	10	#6	17'-2"	
h4	28	#5	4'-11"	
v	16	#4	7'-10"	
v1	153	#4	5'-2"	
v2	8	#6	7'-10"	
Class X Concrete		CU-Yds	52.2	
Reinforcement Bars		Lbs	9420	

DESIGNED: *William Homan*
 CHECKED: *Jan Chiller*
 DRAWN: *RP*
 CHECKED: *DSB*

EXAMINED: *[Signature]*
 PASSED: *[Signature]*
 APPROVED: *[Signature]*

FEB 7 1977

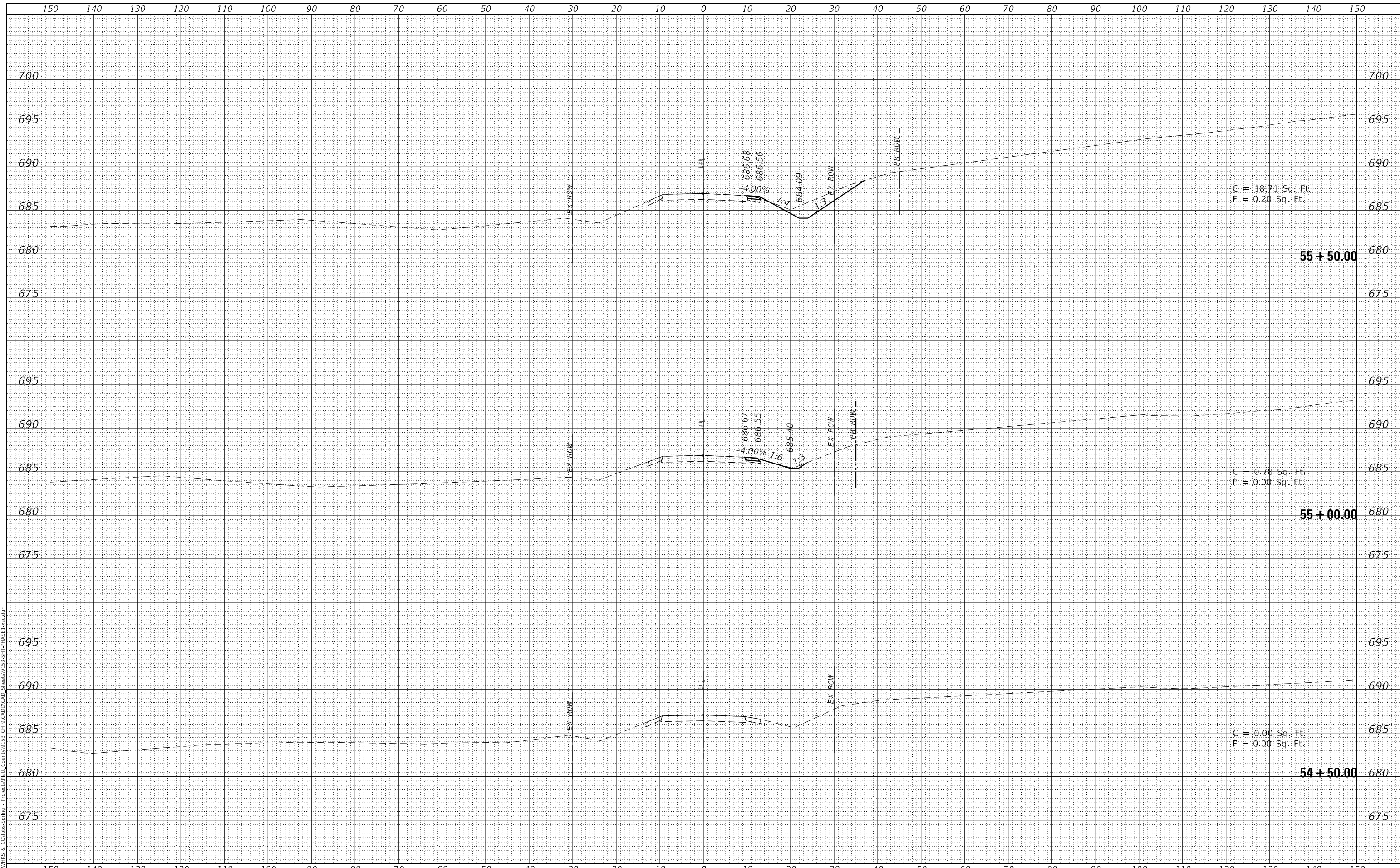
Note: Bars indicated thus, 6 x 2 indicate 6 lines of bars with 2 lengths per line.

CULVERT DETAILS
 C.H. 9 OVER MADDEN CREEK OVERFLOW
 SECTION 76-00222-00-BR
 PIATT COUNTY
 STATION 57+54.00

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

DATE	
BY	
SURVEYED	
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NOTE BOOK	
NO.	

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design firm
no. 184001036
whks
engineers + planners + land surveyors

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		DRAWN -	LNJ	REVISED -	
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PIATT COUNTY HIGHWAY DEPARTMENT

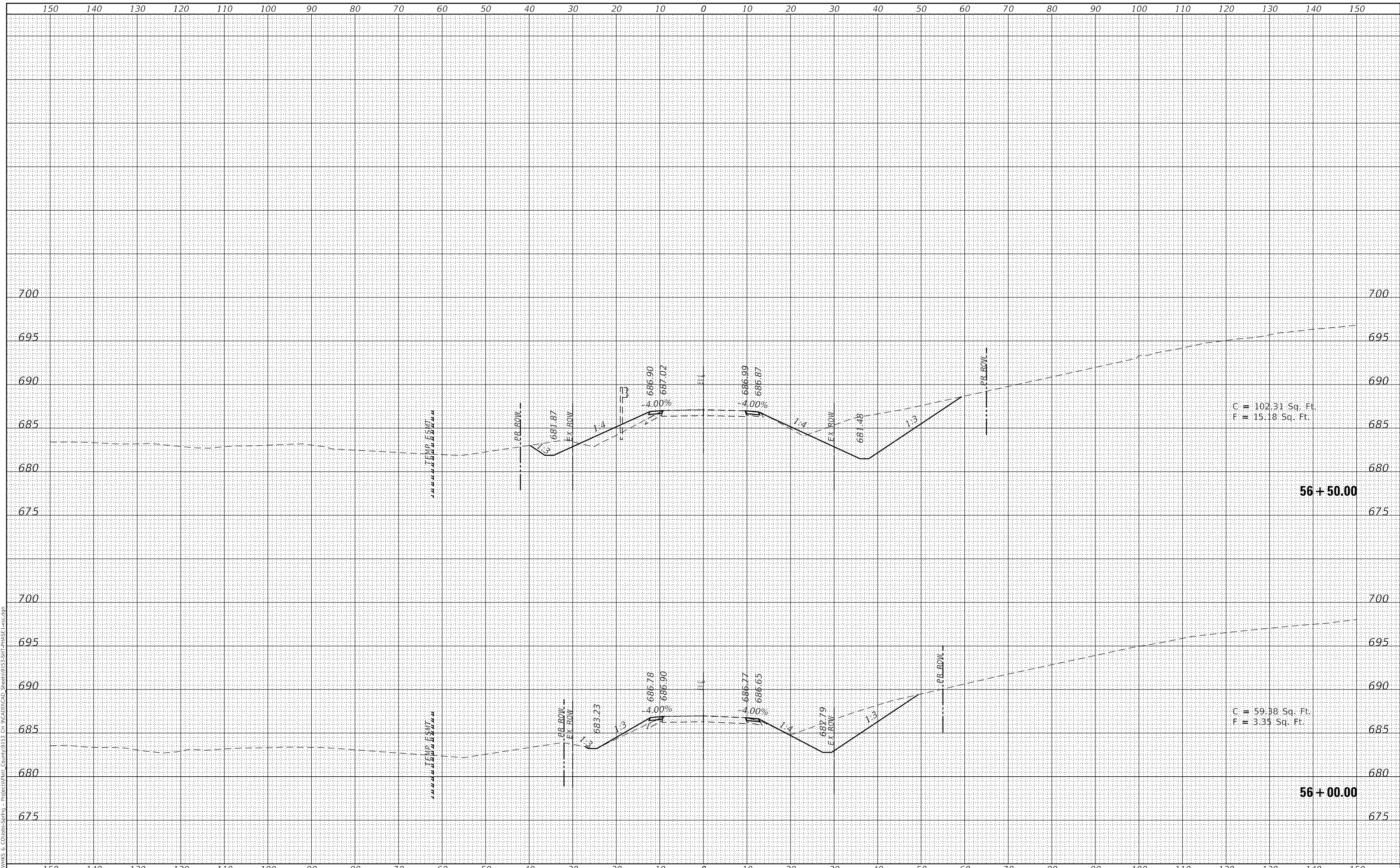
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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design firm
no. 184001036
whks
engineers + planners + land surveyors

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DRAWN -	LNJ
CHECKED -	CWC
DATE -	12/24/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

PIATT COUNTY HIGHWAY DEPARTMENT

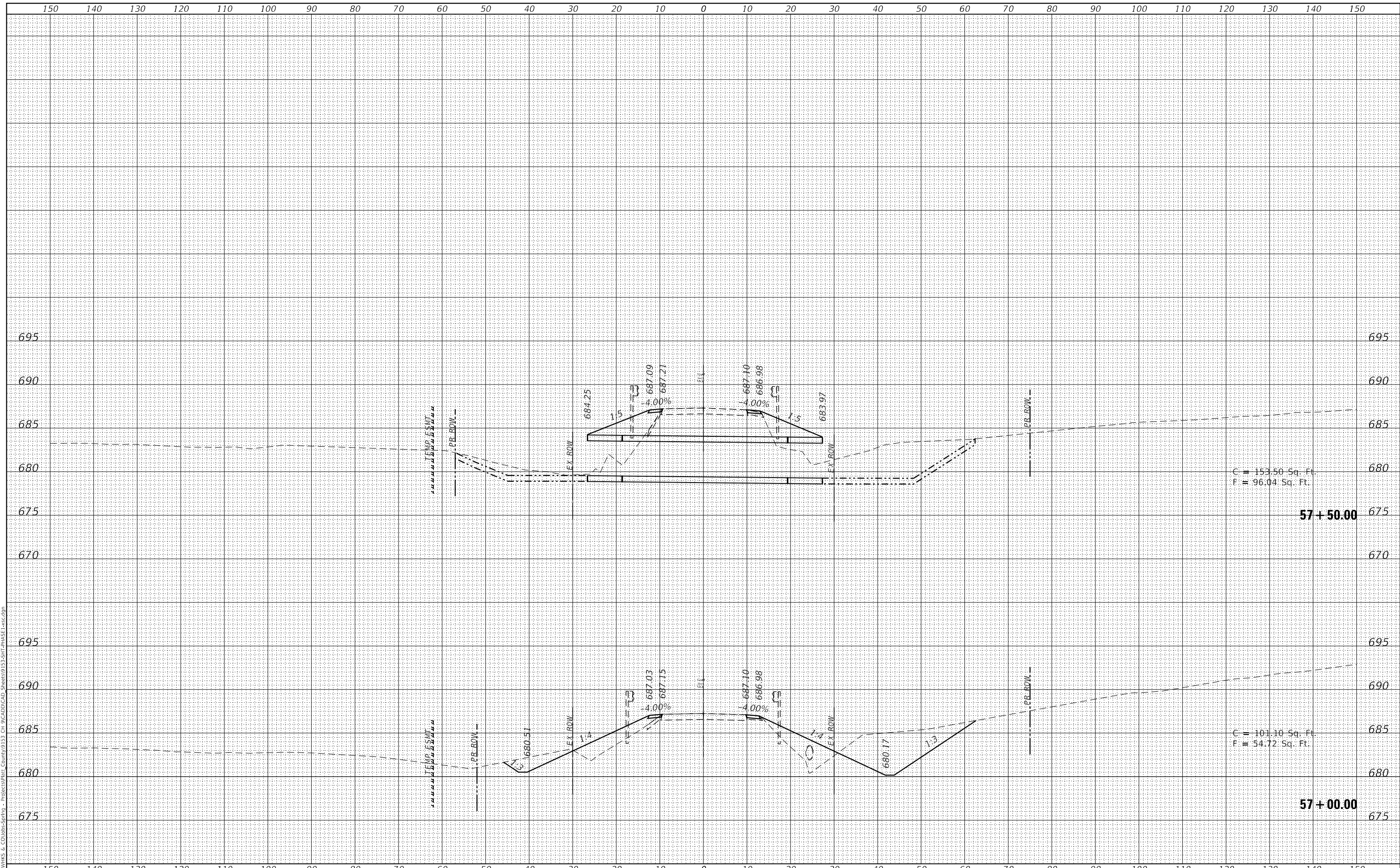
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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design firm
no. 184001036
whks
engineers + planners + land surveyors

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		DRAWN -	LNJ	REVISED -	
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PIATT COUNTY HIGHWAY DEPARTMENT

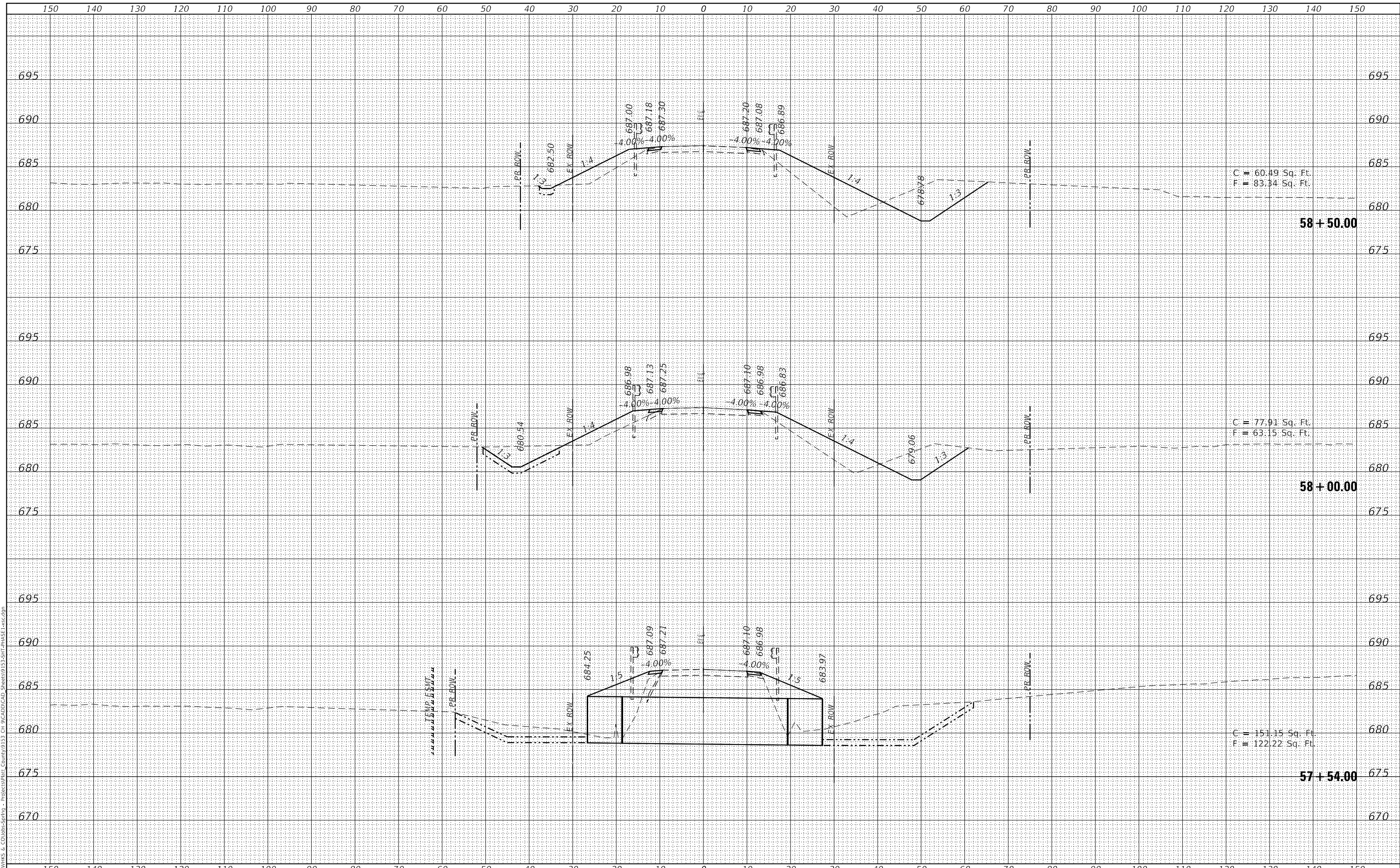
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STA. 57+00.00	TO STA. 57+50.00

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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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SURVEYED	
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NOTE BOOK	
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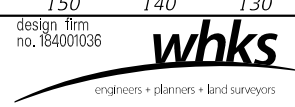
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 F = 83.34 Sq. Ft.

C = 77.91 Sq. Ft.
 F = 63.15 Sq. Ft.

C = 151.15 Sq. Ft.
 F = 122.22 Sq. Ft.



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DESIGNED -	LNJ
DRAWN -	LNJ
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DATE -	12/24/2024

REVISED -	
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REVISED -	

PIATT COUNTY HIGHWAY DEPARTMENT

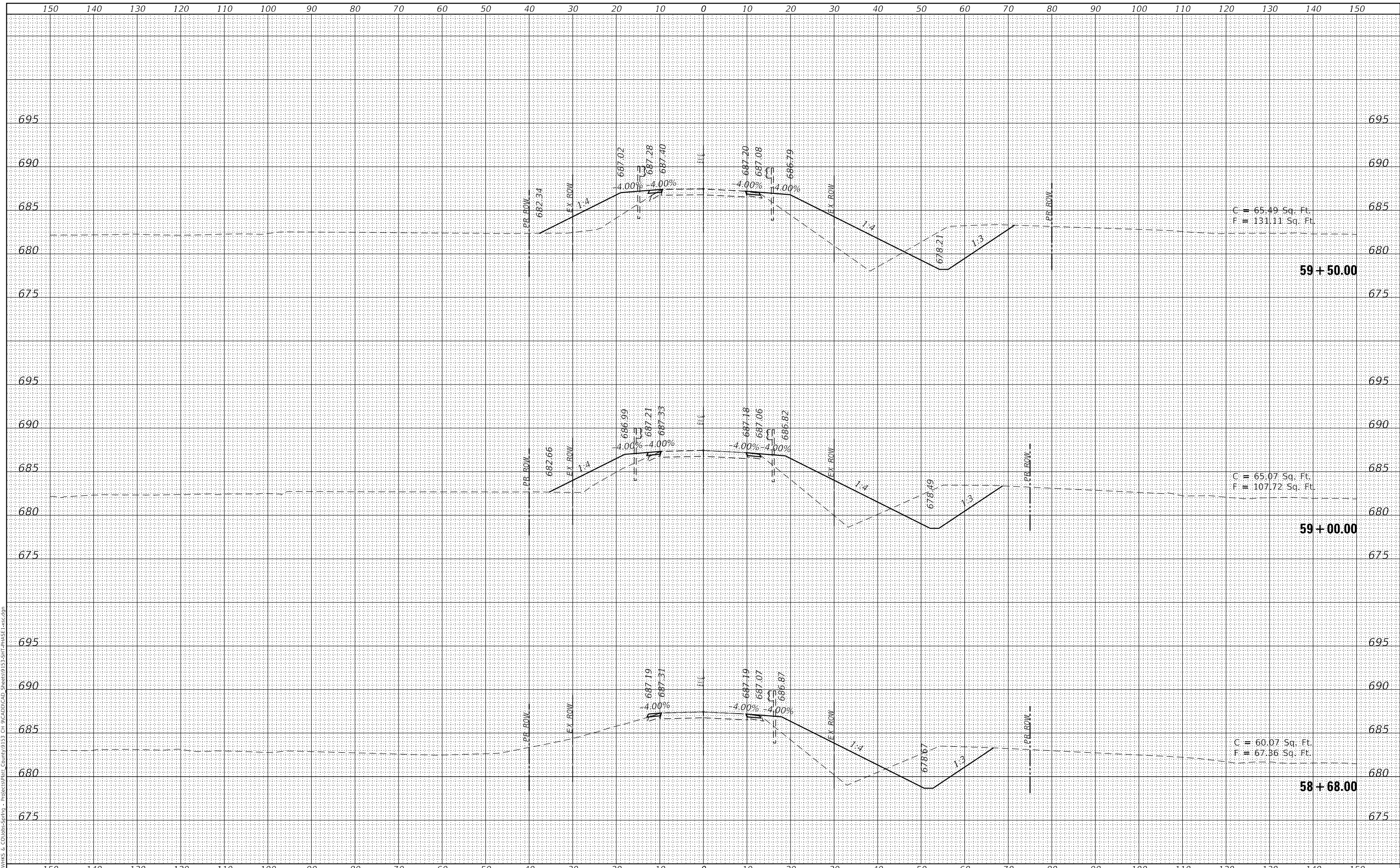
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9	CAB-20-09-222	PIATT	28	24
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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DATE	
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design firm
no. 184001036
whks
engineers + planners + land surveyors

USER NAME =	bjohnson
DESIGNED -	LNJ
DRAWN -	LNJ
CHECKED -	CWC
DATE -	12/24/2024

REVISED -	
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PIATT COUNTY HIGHWAY DEPARTMENT

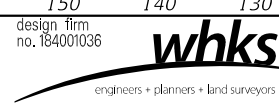
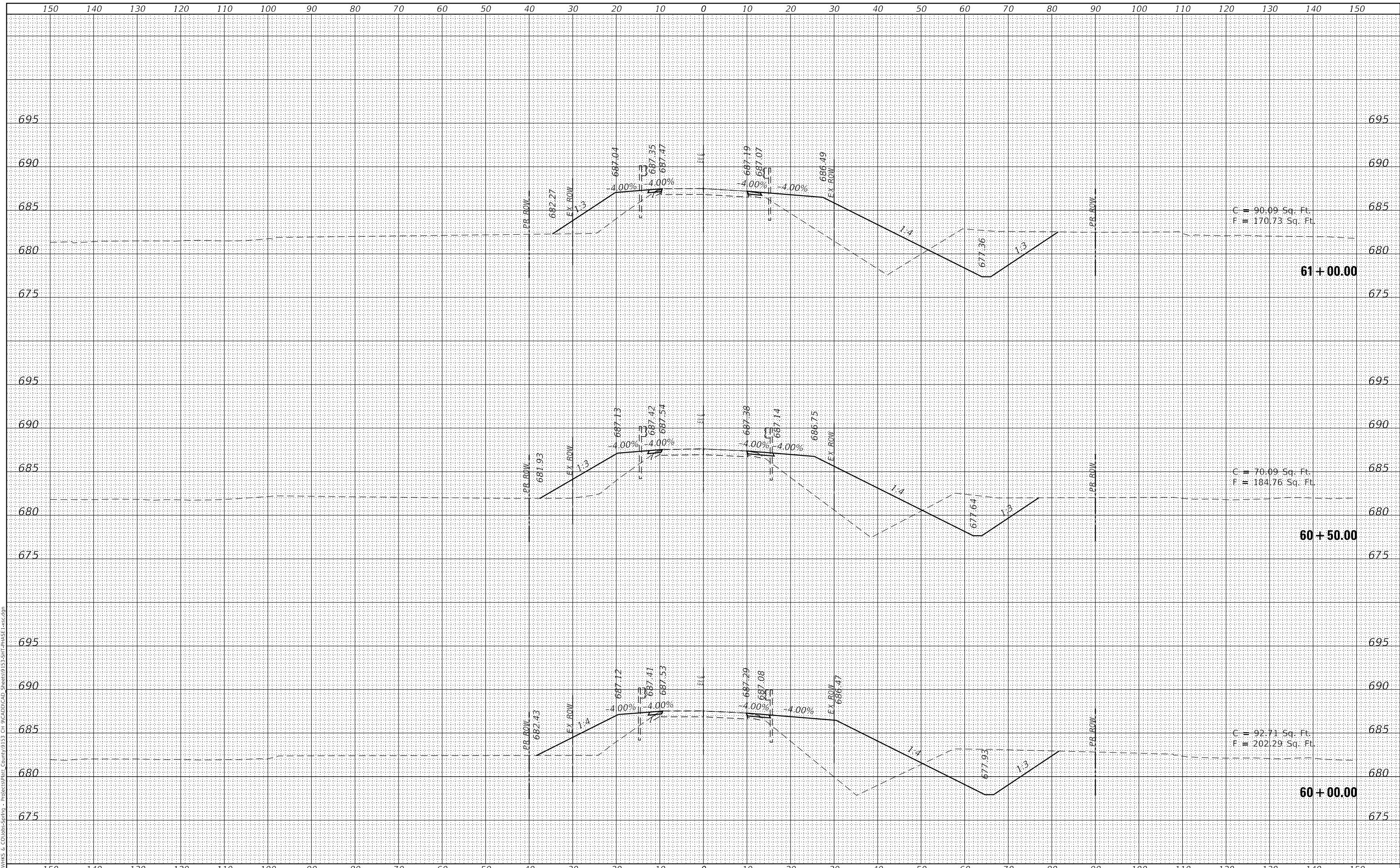
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9	CAB-20-09-222	PIATT	28	25
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
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DRAWN -	LNJ
CHECKED -	CWC
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REVISD -	
REVISD -	
REVISD -	
REVISD -	

PIATT COUNTY HIGHWAY DEPARTMENT

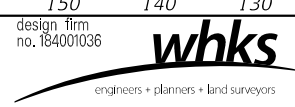
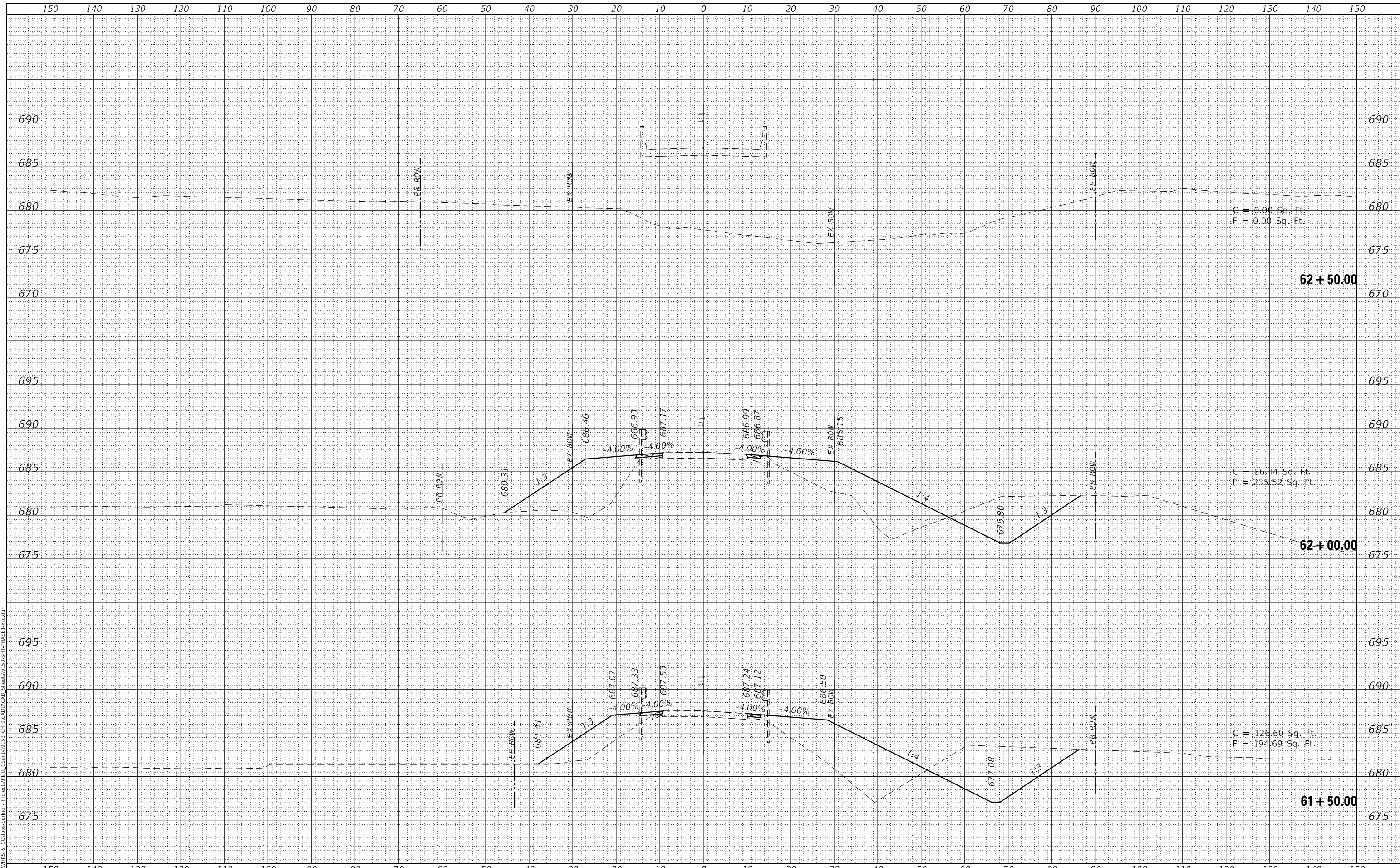
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit
 FILE NAME: C:\pawmks & Co\Jobs-Springs - Projects\Piatt County\9153 CH 9\CADD\CAD_Sheets\9153-SHT_P1A5E1.dgn



USER NAME =	bjohnson
DESIGNED -	LNJ
DRAWN -	LNJ
CHECKED -	CWC
DATE -	12/24/2024
REVISIONS	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

PIATT COUNTY HIGHWAY DEPARTMENT

**CROSS SECTIONS
C.H. 9 OVER MADDEN CREEK**

SCALE: 1" = 5' SHEET 7 OF 8 SHEETS STA. 61+50.00 TO STA. 62+50.00

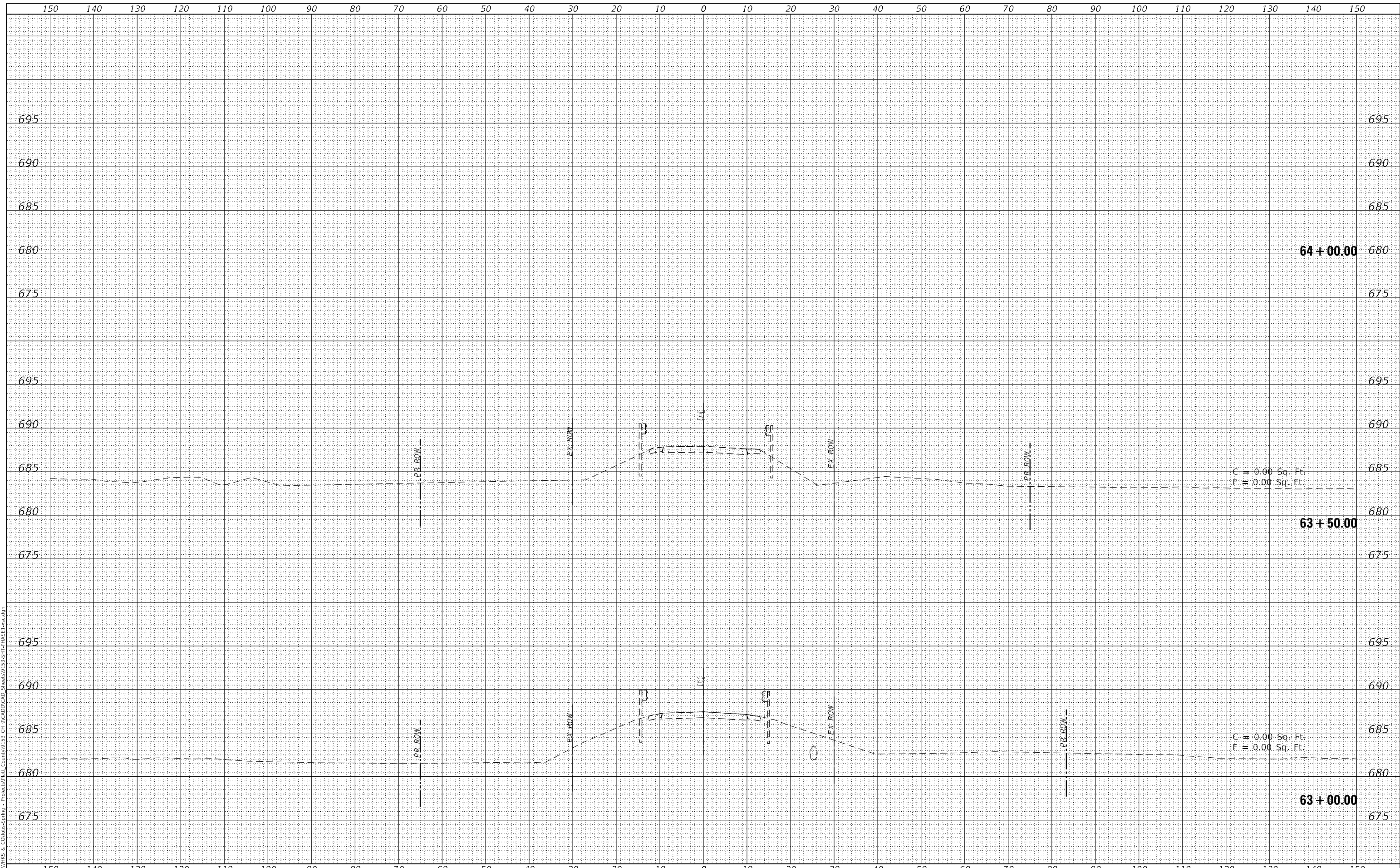
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	CAB-20-09-222	PIATT	28	27
CONTRACT NO.				

ILLINOIS FED. AID PROJECT

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

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

MODEL: Definit
 FILE NAME: C:\pawmiks & co\jobs-springs - projects\piatt county\9153 CH 9\CADD\CAD Sheets\9153-SHT-PIATT-PHASE 1.xcd.dgn



design firm
no. 184001036
whks
engineers + planners + land surveyors

USER NAME =	bjohnson	DESIGNED -	LNJ	REVISED -	
		DRAWN -	LNJ	REVISED -	
PLOT SCALE =	240,0000 ' / ft.	CHECKED -	CWC	REVISED -	
PLOT DATE =	12/24/2024	DATE -	12/24/2024	REVISED -	

PIATT COUNTY HIGHWAY DEPARTMENT

CROSS SECTIONS		C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 9 OVER MADDEN CREEK		9	CAB-20-09-222	PIATT	28	28
SCALE: 1" = 5'		SHEET 8 OF 8 SHEETS		STA. 63+00.00 TO STA. 64+00.00		CONTRACT NO.
				ILLINOIS		FED. AID PROJECT