

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	1
HSIP FUNDS		ILLINOIS	CONTRACT NO. 87868	

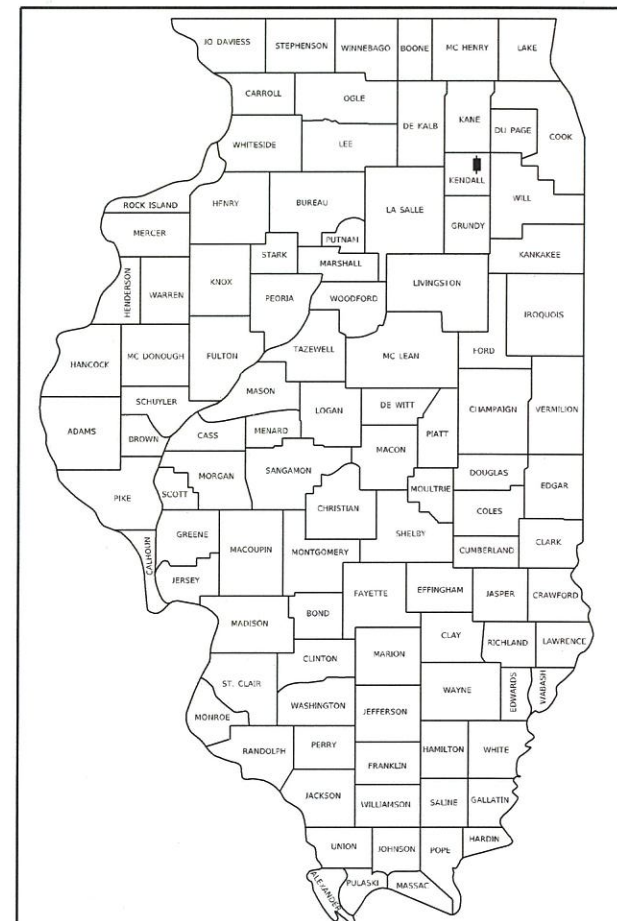
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11-08-2024 LETTING ITEM 125

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**HSIP FUNDS
FAU ROUTE 3792
MINKLER ROAD BRIDGE
REPLACEMENT AND REALIGNMENT
VILLAGE OF OSWEGO
KENDALL COUNTY
SECTION: 21-00053-00-BR
PROJECT: Q1IV(172)
JOB NO: C93-124-24**



LOCATION OF SECTION INDICATED THIS: - [black rectangle] -

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA

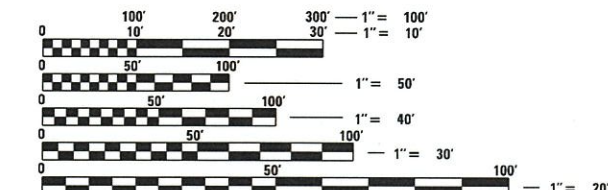
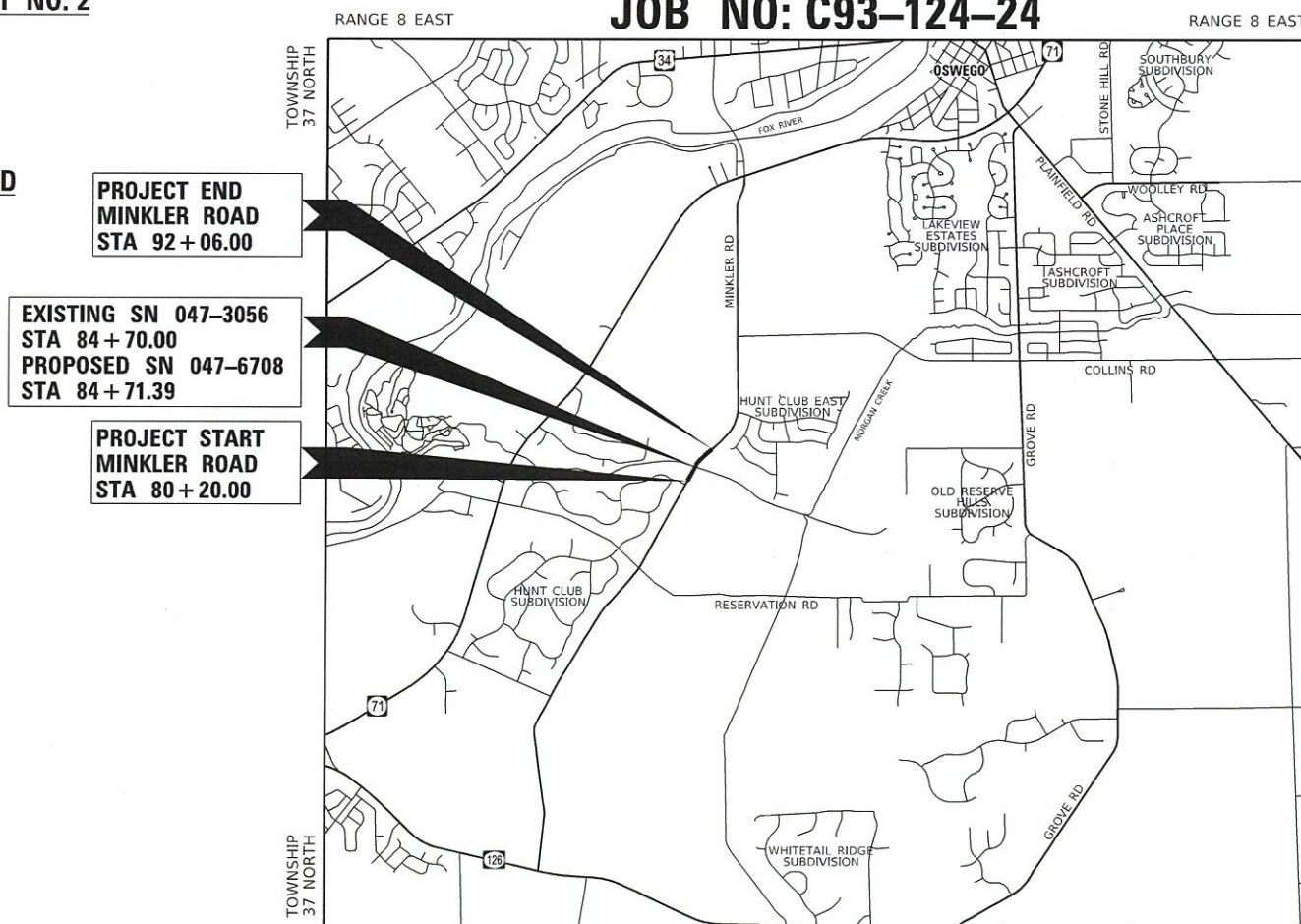
MINKLER ROAD ADT: 3,850 (2019)

ROADWAY	SPEED POSTED	DESIGN SPEED
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MINKLER ROAD	40 MPH	45 MPH
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DESIGN DESIGNATION

MINKLER ROAD: MAJOR COLLECTOR



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

CONTRACT 87868

**LOCATION MAP
(NOT TO SCALE)**
PROJECT GROSS AND NET LENGTHS
MINKLER ROAD = 1,186 FT. (0.23 MILES)

Jason M. Roitburd
JASON M. ROITBURD, P.E.
NO. 062-065592
EXPIRES: 11/30/2025
HR GREEN, INC.
(APPLIES TO SHEETS 1-19, 44-62)

Andrew E. Underwager
ANDREW E. UNDERWAGER, P.E., S.E.
NO. 081-006218
EXPIRES: 11/30/2024
HR GREEN, INC.
(APPLIES TO SHEETS 20-43)



HRGreen
HRGreen.com
Illinois Professional Design Firm
184-001322

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED August 15, 2024
Jennifer M. Hinkle
VILLAGE OF OSWEGO

PASSED September 6, 2024
[Signature]
DISTRICT 3 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID REVIEW September 6, 2024
Julia Thompson
REGION 2 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

GENERAL

THE CONTRACTOR SHALL NOT SCALE FROM THE PLANS FOR CONSTRUCTION PURPOSES. SCALES ARE SHOWN FOR INFORMATION ONLY.

ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING. THE CONTRACTOR SHALL NOTE ANY CHANGES FROM THESE ENGINEERING PLANS AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE INTENT OF THE ENGINEERING PLANS SUCH AS, BUT NOT LIMITED TO, DRAINAGE, GEOMETRICS, AND GRADING.

THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE ON A REGULAR BASIS AND DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS. RESTORATION SHALL BE INITIATED AS WORK PROGRESSES TO THE EXTENT CONSIDERED PRACTICAL.

THE CONTRACTOR SHALL RETURN ALL EXISTING AREAS (TO REMAIN) AFFECTED BY THE CONSTRUCTION ACTIVITIES, PERSONNEL, OR EQUIPMENT TO THE ORIGINAL UNDISTURBED CONDITIONS. THE CONTRACTOR SHALL ADDITIONALLY PROTECT AND MAINTAIN ALL COMPLETED WORK IN ACCORDANCE WITH ARTICLE 107.03.

THE CONTRACTOR SHALL PLAN ALL OF THEIR WORK BASED UPON THEIR OWN EXPLORATIONS, SOIL BORINGS, AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS WITHIN THE PROPOSED IMPROVEMENTS. HOWEVER, THE OWNER HAS PERFORMED A GEOTECHNICAL INVESTIGATION AND THE GEOTECHNICAL REPORT WILL BE MADE AVAILABLE UPON REQUEST.

THOSE SEEKING THE GEOTECHNICAL REPORT SHOULD CONTACT THE OWNER OF RECORD. SHOULD THE CONTRACTOR REQUIRE ADDITIONAL INFORMATION NOT CONTAINED WITHIN THE FOREMENTIONED REPORTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND ANALYZING ANY NEW DATA.

PAVING

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

TRANSVERSE CONSTRUCTION JOINTS WILL BE PERMITTED DURING PAVING PROVIDED THE CONTRACTOR COMPLETE A SAWCUT AT LEAST SIX-INCHES INTO THE ADJACENT MAT AT THE START OF PAVING THE FOLLOWING DAY.

LONGITUDINAL JOINT SEAL SHALL BE APPLIED AS FOLLOWS:
(A) PAVEMENT RECONSTRUCTION - UNDER THE SURFACE LIFT AND UNDER THE TOP BINDER LIFT
(B) PAVEMENT OVERLAY - UNDER THE SURFACE LIFT

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.

UNLESS OTHERWISE NOTED, THE OFFSETS FOR DRAINAGE STRUCTURES WITHIN THE CURB ARE MEASURED TO THE EDGE OF PAVEMENT. THE OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE.

ALL ELEVATIONS ARE ON NAVD 88 DATUM.

SEWER AND WATER MAIN

THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING AND AFTER THE CONSTRUCTION. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE OF THE APPLICABLE DRAINAGE ITEMS.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, OR CATCH BASINS. CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME. CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT ROADSIDE DRAINAGE SYSTEM IS BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

BEFORE ORDERING PIPE CULVERTS OR STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PROPOSED STORM SEWER ITEMS.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOWLINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THE CONTRACT SHALL HAVE "VILLAGE OF OSWEGO" AND ONE OF THE FOLLOWING WORDS CAST INTO THE LID: "STORM" (FOR STORM SEWER STRUCTURES), "SANITARY" (FOR SANITARY SEWER STRUCTURES), OR "WATER" (FOR WATER SYSTEM STRUCTURES). ANY ADDITIONAL COST FOR THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE FRAMES AND CLOSED LIDS PROVIDED.

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED.

PROPOSED END SECTIONS SHALL BE SLOPED TO MATCH THE PROPOSED STORM SEWER AND CULVERT PIPE SLOPES.

THE PROPOSED DRAINAGE STRUCTURES AND PIPES SHALL BE PROTECTED FROM SEDIMENT IMMEDIATELY AFTER THEY ARE CONSTRUCTED UNTIL THE SURFACES THAT DRAIN TO THEM ARE FULLY PAVED OR VEGETATED.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

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 CONSIDERED AS INCLUDED IN THE COST OF EARTH EXCAVATION.

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

UTILITY CONTACTS

UTILITY COMPANY	CONTACT PERSON	ADDRESS	PHONE NUMBER
AT&T	STEVE PESCOLA		(630) 573-5703
COMCAST	MARTHA GRIERAS	688 INDUSTRIAL DRIVE ELMHURST, IL 60126	(224) 229-5862
COMED	PETE KRATZER	1N423 SWIFT ROAD LOMBARD, IL 60148	(630) 424-5704
NICOR	BRUCE KOPPANG	1844 FERRY ROAD NAPERVILLE, IL 60563	(630) 388-3046
VILLAGE OF OSWEGO	JENNIFER HUGHES	100 PARKERS MILL OSWEGO, IL 60543	(630) 554-3242

LIST OF HIGHWAY STANDARDS

ITEM NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-09	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

SUMMARY OF COMMITMENTS:

- TREES 3-INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT WILL NOT BE CLEARED APRIL 1 THROUGH SEPTEMBER 30.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT (PRIME COAT)	0.05	LBS / SQ FT (MILLED HMA/AGED HMA)
	0.025	LBS / SQ FT (HMA LIFTS)
	0.25	LBS / SQ FT (AGGREGATE)
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	MINKLER ROAD	MINKLER ROAD	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER ROADWAY	HMA SURFACE ROADWAY	HMA BINDER ENTRANCES	HMA SURFACE ENTRANCES
BINDER GRADE (PG):	PG64-22	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 19.0	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE:		MIXTURE D		MIXTURE D
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES/NUCLEAR	CORES/NUCLEAR	SATISFACTION OF ENGINEER	SATISFACTION OF ENGINEER
MATERIAL TRANSFER DEVICE (REQUIRED)	NO	NO	NO	NO

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
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 PEN TABLE: 08/20/24-srt-gen.edgn



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	DRAWN - AJM	REVISED -
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PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND HIGHWAY STANDARDS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	2
			CONTRACT NO. 87868	
		ILLINOIS	FED. AID PROJECT	

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 004	STRUCTURAL 010
Δ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	357	357	0
Δ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	166	166	0
20200100	EARTH EXCAVATION	CU YD	2,409	2,409	0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	5,996	5,996	0
20400800	FURNISHED EXCAVATION	CU YD	5,557	5,557	0
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	5,465	5465.0	0
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	7,503	7503.0	0
Δ 25000210	SEEDING, CLASS 2A	ACRE	1.3	1.3	0
Δ 25000300	SEEDING, CLASS 3	ACRE	0.2	0.2	0
Δ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	82	82	0
Δ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	82	82	0
Δ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	82	82	0
Δ 25100630	EROSION CONTROL BLANKET	SQ YD	5,819	5,819	0
Δ 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	735	735	0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	136	136	0
28000305	TEMPORARY DITCH CHECKS	FOOT	12	12	0
28000400	PERIMETER EROSION BARRIER	FOOT	1,813	1,813	0
28000500	INLET AND PIPE PROTECTION	EACH	5	5	0
28100107	STONE RIPRAP, CLASS A4	SQ YD	768	48	720
28100109	STONE RIPRAP, CLASS A5	SQ YD	87	87	0
28200200	FILTER FABRIC	SQ YD	855	135	720
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	5,011	5,011	0
31101600	SUBBASE GRANULAR MATERIAL, TYPE B 8"	SQ YD	288	288	0
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	10,974	10,974	0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8,943	8,943	0

Δ = INDICATES SPECIALTY ITEM

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 # 184-001322

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PLOT DATE = 8/28/2024	CHECKED - JMR	REVISED -
	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	3
				CONTRACT NO. 87868
ILLINOIS FED. AID PROJECT				

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 004	STRUCTURAL 010
40600370	LONGITUDINAL JOINT SEALANT	FOOT	2,260	2,260	0
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	2,405	2,405	0
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	549	549	0
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	209.6	209.6	0
44000100	PAVEMENT REMOVAL	SQ YD	2,873	2,873	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	237	237	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	10	10	0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	0	1
50105220	PIPE CULVERT REMOVAL	FOOT	162	162	0
50200100	STRUCTURE EXCAVATION	CU YD	358	0	358
50300225	CONCRETE STRUCTURES	CU YD	89.5	0	89.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	163.2	0	163.2
50300260	BRIDGE DECK GROOVING	SQ YD	583	0	583
50300300	PROTECTIVE COAT	SQ YD	792	0	792
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	117.3	0	117.3
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	0	1
50500505	STUD SHEAR CONNECTORS	EACH	1,992	0	1,992
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	95,080	0	95,080
△ 50901720	BICYCLE RAILING	FOOT	77	0	77
△ 50901750	PARAPET RAILING	FOOT	103	0	103
51201610	FURNISHING STEEL PILES HP12X63	FOOT	560	0	560
51202305	DRIVING PILES	FOOT	560	0	560
51203610	TEST PILE STEEL HP12X63	EACH	2	0	2
51204650	PILE SHOES	EACH	16	0	16
51500100	NAME PLATES	EACH	1	0	1

△ = INDICATES SPECIALTY ITEM

HRG PROJECT NO.: 17087.01
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	DRAWN - AJM	REVISED -
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PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	4
			CONTRACT NO. 87868	
ILLINOIS FED. AID PROJECT				

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 004	STRUCTURAL 010
52100520	ANCHOR BOLTS, 1"	EACH	32	0	32
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4	0
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	2	0
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4	4	0
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	75	75	0
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	28	28	0
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	96	96	0
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	176	0	176
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	94	0	94
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	12	8	4
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	441	441	0
60108501	PIPE UNDERDRAINS, TYPE 3	FOOT	1,872	1,872	0
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	170	0	170
61100605	MISCELLANEOUS CONCRETE	CU YD	20	20	0
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	4	4	0
61139900	STORM SEWERS (SPECIAL), 6"	FOOT	75	75	0
61140000	STORM SEWERS (SPECIAL), 8"	FOOT	75	75	0
61140100	STORM SEWERS (SPECIAL), 10"	FOOT	75	75	0
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	362.5	362.5	0
Δ 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	0
Δ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	0
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	0
63200310	GUARDRAIL REMOVAL	FOOT	386	386	0
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	11	11	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	0

Δ = INDICATES SPECIALTY ITEM

HRG PROJECT NO: 17097.01
 HRG PROJ CONTACT:
 PLS: 308250872@hr-green.com
 PEX: 312.467.1400



USER NAME = jrbou	DESIGNED - JMR	REVISED -
	DRAWN - AJM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/29/2024	DATE - 6/25/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U. RIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	5
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 004	STRUCTURAL 010
67100100	MOBILIZATION	L SUM	1	1	0
Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	18.75	18.75	0
Δ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	42	42	0
Δ 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	9,488	9,488	0
Δ 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	4,744	4,744	0
Δ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10	0
Δ 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	4	4	0
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	0
X0328024	BRICK MAILBOX REMOVAL	EACH	1	1	0
X2130010	EXPLORATION TRENCH (SPECIAL)	FOOT	500	500	0
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4	0
X5080530	BAR TERMINATORS	EACH	760	0	760
X6640104	FENCE REMOVAL	FOOT	422	422	0
X7010238	CHANGEABLE MESSAGE SIGN (SPECIAL)	CAL MO	8	8	0
Δ X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	60	60	0
XX007092	RECESSED REFLECTIVE PAVMENT MARKER REMOVAL	EACH	4	4	0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	0
Z0016702	DETOUR SIGNING	L SUM	1	1	0
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	250	250	0
# Z0076600	TRAINEES	HOUR	1,000		0
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000		

Δ = INDICATES SPECIALTY ITEM

= 0042

IRI PROJECT NO. 17087.01
 HRS PROJ CONTACT
 FILE NAME 17087.01-17-sum06.dgn
 PLOT DRIVER L.pdf,dwipntf.g
 PEN TABLE,plotttbl.tbl



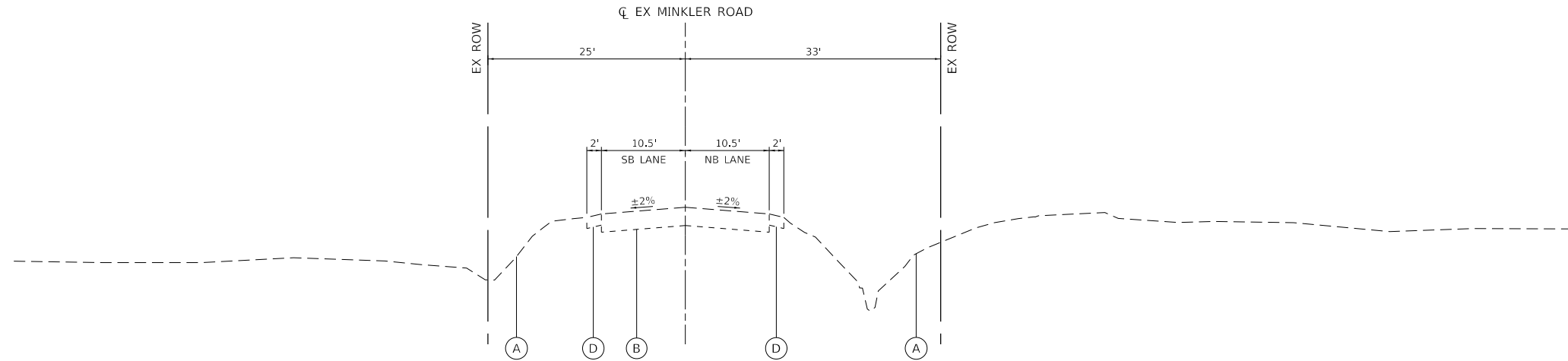
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PLOT DATE = 6/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

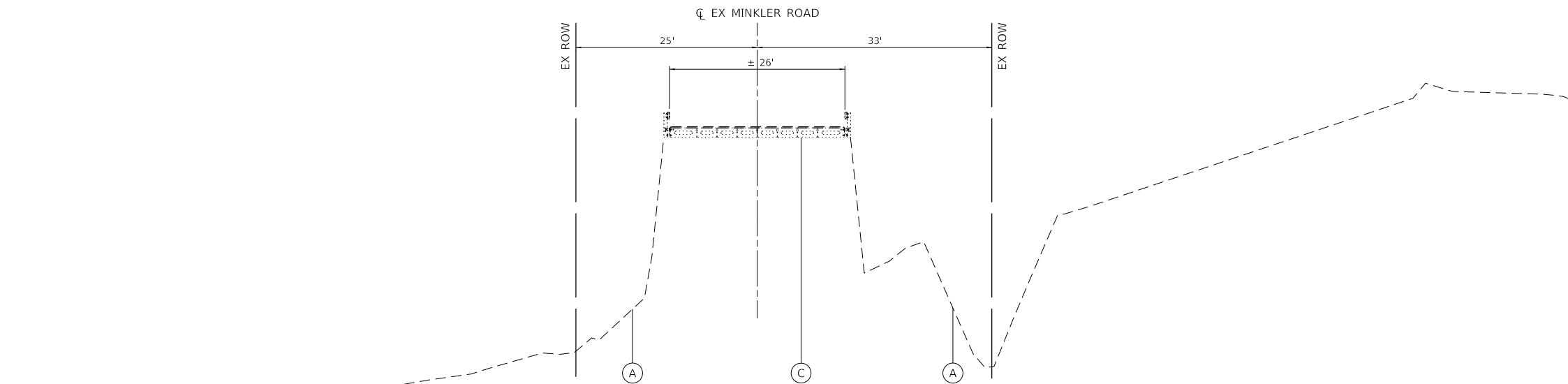
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3792	21-00053-00-BR	KENDALL	62	6
			CONTRACT NO. 87868	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.



**EXISTING TYPICAL SECTION
MINKLER ROAD**

STA 80+20.00 TO STA 84+49.77
STA 84+91.66 TO STA 92+12.00



**EXISTING BRIDGE TYPICAL SECTION
MINKLER ROAD**

STA 84+49.77 TO STA 84+91.66

LEGEND

(A)	EXISTING GROUND
(B)	PAVEMENT, HOT MIX ASPHALT
(C)	CONCRETE PAVEMENT, BRIDGE DECK
(D)	AGGREGATE SHOULDER

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 21-00053-00-BR-STA 84+91.66.dgn
 PEN TABLE: 21-00053-00-BR.dwg



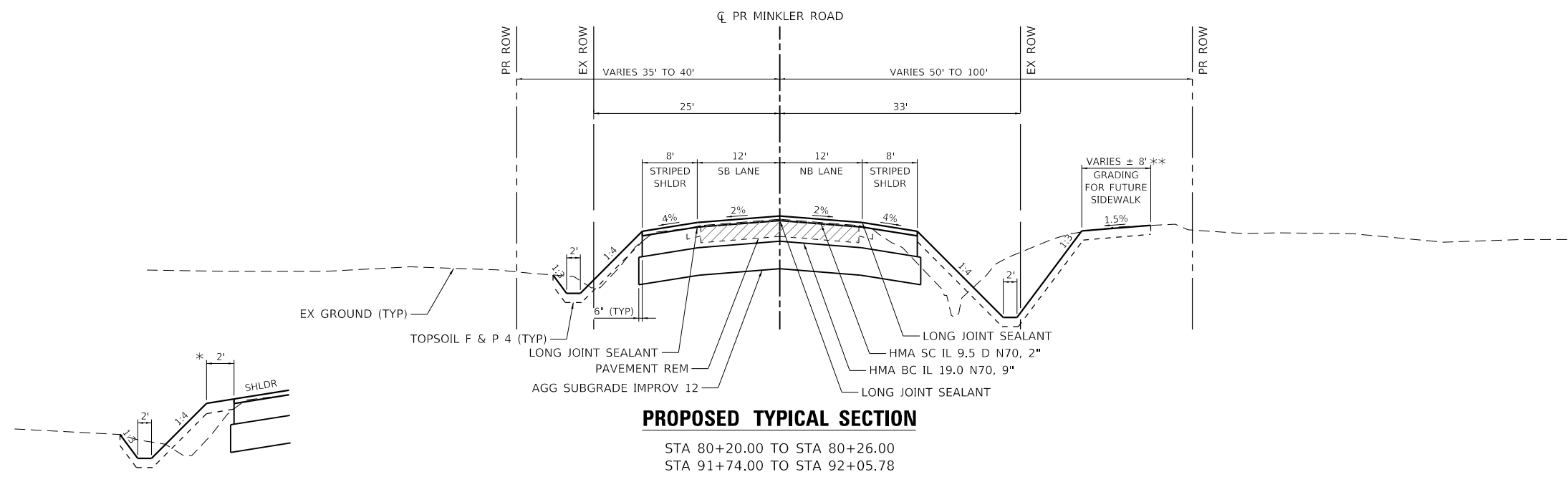
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	DRAWN - AJM	REVISED -
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PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
MINKLER ROAD**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

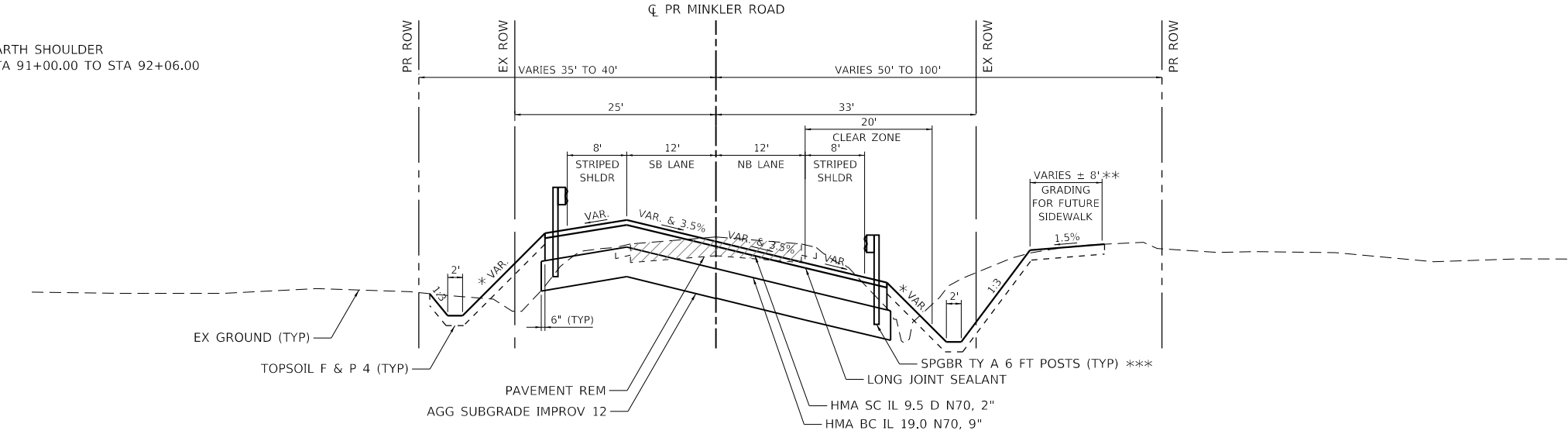
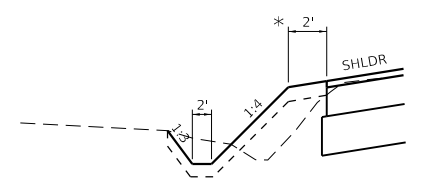
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3792	21-00053-00-BR	KENDALL	62	7
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

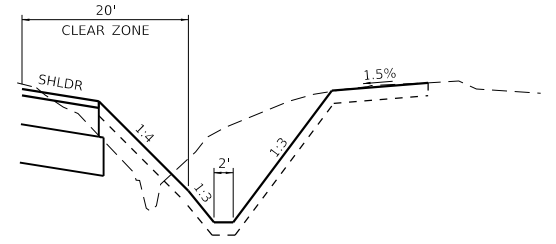
STA 80+20.00 TO STA 80+26.00
STA 91+74.00 TO STA 92+05.78

* EARTH SHOULDER
STA 91+00.00 TO STA 92+06.00



PROPOSED TYPICAL SECTION

STA 80+26.00 TO STA 84+32.73
STA 85+10.06 TO STA 91+74.00



* BARN ROOF DITCH
STA 87+00.00 TO STA 91+00.00 RT
(TRANSITION 86+50 TO 87+00 & 91+00 TO 91+50)

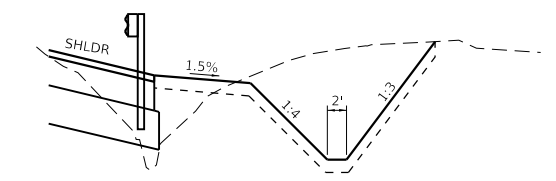
* TRANSITION 1:4 TO 1:2
STA 82+50.00 TO STA 83+50.00 RT

HOLD 1:2 FORE SLOPE
STA 83+50.00 TO STA 85+50.00 RT

TRANSITION 1:2 TO 1:4
STA 85+50.00 TO STA 86+50.00 RT

HOLD 1:3 FORE SLOPE
STA 82+50.00 TO STA 83+00.00 LT

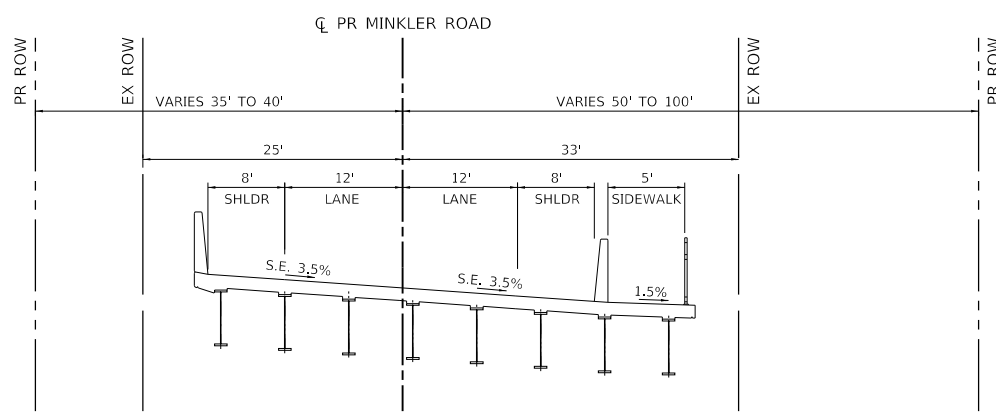
TRANSITION 1:3 TO 1:4
STA 83+00.00 TO STA 83+50.00 LT



** FUTURE SIDEWALK GRADING
STA 83+00.00 TO STA 84+32.83
STA 85+10.06 TO STA 85+50.00

*** GUARDRAIL (SEE NOTES)
STA 82+29.39 TO STA 84+32.73 RT
STA 82+43.66 TO STA 84+31.73 LT
STA 85+11.06 TO STA 85+63.33 RT
STA 85+11.06 TO STA 87+11.54 LT

- NOTES:
- 1: SEE PLANS AND PROFILES FOR GUARDRAIL LIMITS AND TERMINAL TYPE. SEE STANDARD 630201 FOR PCC HOLE AND BACKFILL REQUIREMENTS
 - 2: HMA SHOULDER WILL BE 3' WIDE IN AREAS WHERE GUARDRAIL IS PRESENT.
 - 3: SEE HIGHWAY STANDARD 601001 AND UNDERDRAIN SCHEDULE FOR PLACEMENT OF PIPE UNDERDRAINS.



PROPOSED TYPICAL SECTION

STA 84+32.83 TO STA 85+10.06
(SEE STRUCTURAL DETAILS)

LEGEND

① EXISTING GROUND	⑤ HMA SHOULDER (SEE NOTE 2)
② PAVEMENT, HMA SURFACE COURSE	⑥ GRADING FOR FUTURE SIDEWALK
③ PAVEMENT, HMA BINDER COURSE	⑦ TOPSOIL / SEED
④ AGGREGATE SUBGRADE IMPROVEMENT	⑧ GUARDRAIL (SEE NOTE 1)

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/20/24-17087-17087.dgn
 PEN TABLE: 17087.tbl



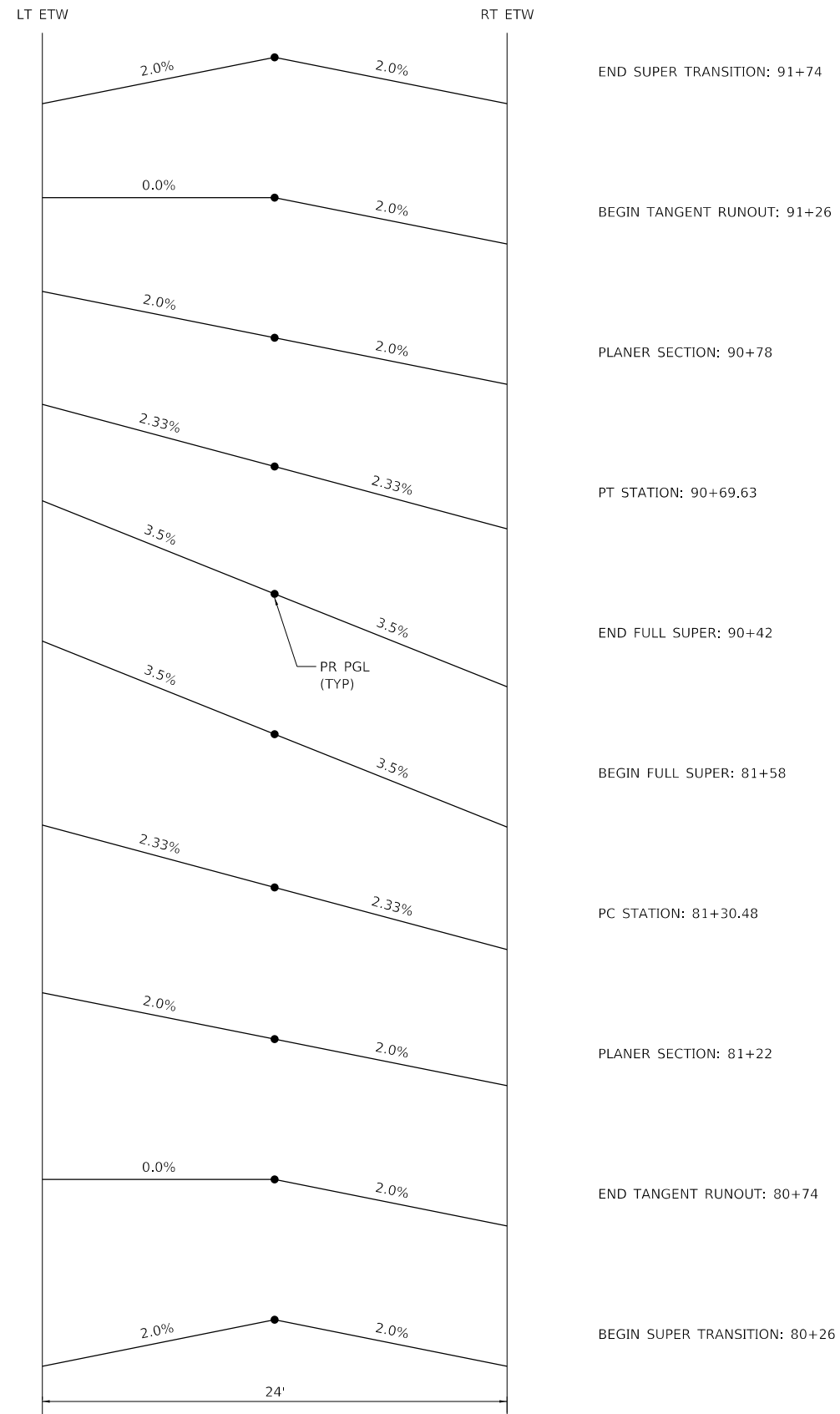
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	DRAWN - AJM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
MINKLER ROAD**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	8
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



PROP. CURVE PRCL_3

e = 3.5%
 TR = 48'
 SE RUNOFF = 84'

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 081720-srt+super.dgn
 PEN TABLE: plot.tbl



USER NAME = jroibu	DESIGNED - JMR	REVISED -
	DRAWN - AJM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERELEVATION TRANSITION DETAILS
 MINKLER ROAD**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	9
CONTRACT NO. 87868				
		ILLINOIS	FED. AID PROJECT	

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNITS	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
12.00	STA 82+25.00	56.30'	RT	
12.00	STA 82+69.00	54.11'	RT	
9.00	STA 82+91.00	31.56'	RT	
12.00	STA 82+85.00	27.33'	RT	
6.00	STA 82+92.00	23.97'	RT	
8.00	STA 83+13.00	36.02'	RT	
12.00	STA 83+59.00	48.71'	RT	
13.00	STA 84+07.00	45.37'	RT	
8.00	STA 84+19.00	69.18'	RT	
13.00	STA 84+19.00	70.98'	RT	
13.00	STA 84+31.00	64.79'	RT	
15.00	STA 84+43.00	15.49'	RT	
12.00	STA 84+50.00	18.78'	RT	
12.00	STA 84+43.00	15.13'	RT	
6.00	STA 84+43.00	15.61'	RT	
10.00	STA 84+42.00	15.77'	RT	
10.00	STA 84+44.00	16.69'	RT	
6.00	STA 82+46.00	31.89'	LT	
7.00	STA 82+51.00	44.97'	LT	
9.00	STA 82+69.00	44.33'	LT	
10.00	STA 82+78.00	47.22'	LT	
6.00	STA 82+82.00	36.51'	LT	
9.00	STA 82+89.00	29.49'	LT	
6.00	STA 82+92.00	32.72'	LT	
7.00	STA 83+02.00	30.37'	LT	
7.00	STA 83+16.00	30.64'	LT	
9.00	STA 83+21.00	34.69'	LT	
9.00	STA 83+22.59	28.36'	LT	
6.00	STA 83+22.16	27.53'	LT	
6.00	STA 83+35.00	47.28'	LT	
6.00	STA 83+44.00	31.96'	LT	
8.00	STA 83+46.00	31.97'	LT	
12.00	STA 83+66.00	31.45'	LT	
6.00	STA 83+70.00	42.53'	LT	
6.00	STA 83+84.00	36.25'	LT	
12.00	STA 83+92.00	36.38'	LT	
330.00	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
15.00	STA 87+26.00	8.57'	RT	
6.00	STA 88+77.00	23.82'	RT	
6.00	STA 88+84.00	30.59'	RT	
27.00	SUB-TOTAL			
357.00	TOTAL			

TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNITS	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
20.00	STA 81+37.00	32.62'	RT	
20.00	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
17.00	STA 87+07.00	17.89'	RT	
23.00	STA 88+06.00	20.48'	RT	
30.00	STA 88+06.00	17.67'	RT	
36.00	STA 88+84.00	57.40'	RT	
40.00	STA 89+66.64	28.50'	RT	
146.00	SUB-TOTAL			
166.00	TOTAL			

SEEDING, CLASS 2A

ACRE	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
0.17	STA 80+20.00 TO STA 84+25.00	LT		
0.09	STA 79+50.00 TO STA 81+16.00	RT		
0.15	STA 81+16.00 TO STA 83+00.00	RT		
0.41	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
0.18	STA 84+90.00 TO STA 89+58.00	LT		
0.28	STA 86+00.00 TO STA 89+03.00	RT		
0.26	STA 89+03.00 TO STA 92+06.00	RT		
0.06	STA 89+58.00 TO STA 92+06.00	LT		
0.79	SUB-TOTAL			
1.30	TOTAL			

SEEDING, CLASS 3

ACRE	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
0.11	STA 83+00.00 TO STA 84+60.00	RT		
0.11	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
0.04	STA 85+10.00 TO STA 86+00.00	RT		
0.04	SUB-TOTAL			
0.20	TOTAL			

NITROGEN, PHOSPOROUS, POTASSIUM FERTILIZER NUTRIENT

POUND	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
10.11	STA 80+20.00 TO STA 84+25.00	LT		
5.59	STA 79+50.00 TO STA 81+16.00	RT		
9.18	STA 81+16.00 TO STA 83+00.00	RT		
6.64	STA 83+00.00 TO STA 84+60.00	RT		
31.52	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
2.46	STA 85+10.00 TO STA 86+00.00	RT		
10.56	STA 84+90.00 TO STA 89+58.00	LT		
16.99	STA 86+00.00 TO STA 89+03.00	RT		
15.82	STA 89+03.00 TO STA 92+06.00	RT		
3.89	STA 89+58.00 TO STA 92+06.00	LT		
49.72	SUB-TOTAL			
82.00	TOTAL			

EROSION CONTROL BLANKET

SQ YD	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
815.52	STA 80+20.00 TO STA 84+25.00	LT		
451.25	STA 79+50.00 TO STA 81+16.00	RT		
740.33	STA 81+16.00 TO STA 83+00.00	RT		
2007.10	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
851.52	STA 84+90.00 TO STA 89+58.00	LT		
1370.50	STA 86+00.00 TO STA 89+03.00	RT		
313.60	STA 89+03.00 TO STA 92+06.00	RT		
1276.26	STA 89+58.00 TO STA 92+06.00	LT		
3811.88	SUB-TOTAL			
5819.00	TOTAL			

HEAVY DUTY EROSION CONTROL BLANKET

SQ YD	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
535.52	STA 83+00.00 TO STA 84+60.00	RT		
535.52	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
198.74	STA 85+10.00 TO STA 86+00.00	RT		
198.74	SUB-TOTAL			
735.00	TOTAL			

TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
16.85	STA 80+20.00 TO STA 84+25.00	LT		
9.32	STA 79+50.00 TO STA 81+16.00	RT		
15.30	STA 81+16.00 TO STA 83+00.00	RT		
11.06	STA 83+00.00 TO STA 84+60.00	RT		
52.53	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
4.11	STA 84+90.00 TO STA 89+58.00	LT		
17.59	STA 85+10.00 TO STA 86+00.00	RT		
28.32	STA 86+00.00 TO STA 89+03.00	RT		
26.37	STA 89+03.00 TO STA 92+06.00	RT		
6.48	STA 89+58.00 TO STA 92+06.00	LT		
82.86	SUB-TOTAL			
136.00	TOTAL			

FURNISHING AND ERECTING RIGHT OF WAY MARKERS

EACH	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
1.00	STA 79+50.00	1.05'	LT	
1.00	STA 79+50.00	50.0'	RT	
1.00	STA 81+48.05	50.0'	RT	
1.00	STA 81+45.41	100.0'	RT	
4.00	SUB-TOTAL			
MINKLER ROAD - NORTH OF BRIDGE				
1.00	STA 87+50.00	100.0'	RT	
1.00	STA 87+50.00	70.0'	RT	
1.00	STA 90+00.00	29.77'	LT	
1.00	STA 90+00.00	39.77'	LT	
1.00	STA 92+25.65	70.0'	RT	
1.00	STA 93+14.21	35.81'	LT	
1.00	STA 93+59.36	1.63'	RT	
7.00	SUB-TOTAL			
11.00	TOTAL			

FENCE REMOVAL

FOOT	LOCATION			
MINKLER ROAD - SOUTH OF BRIDGE				
422.00	STA 80+20.00 TO STA 84+46.06	RT		
422.00	TOTAL			

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/28/2024-17087-01-17087.dgn
 PEN TABLE: 17087.tbl



USER NAME = jroibu	DESIGNED - JMR	REVISED -
	DRAWN - AJM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.		SHEET 1 OF 2 SHEETS	STA. TO STA.
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SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	10
CONTRACT NO. 87868			ILLINOIS FED. AID PROJECT	

PAVEMENT SCHEDULE

LOCATION	AGGREGATE SUBGRADE IMPROVEMENT 12"		SUBBASE GRANULAR MATERIAL TYPE B 8"		BITUMINOUS MATERIALS (PRIME COAT)		BITUMINOUS MATERIALS (TACK COAT)		HOT-MIX ASPHALT BINDER COURSE IL-19.0, N70 (TON)		HOT-MIX ASPHALT SURF. COURSE IL-9.5 MIX "D", N70 (TON)		PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB (SQ YD)	PAVEMENT REMOVAL (SQ YD)		DRIVEWAY PAVEMENT REMOVAL (SQ YD)	
	(SQ YD)		(SQ YD)		(POUND)		(POUND)		(TON)		(TON)			(SQ YD)		(SQ YD)	
	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT		LT	RT	LT	RT
MINKLER ROAD																	
STA 80+20.00 TO STA 84+02.98	925	961			2051	2093	615	6278	433	450	96	100	108.4	547	548		
STA 85+40.26 TO STA 92+06.00	1601	1524			3459	3371	1038	1011	756	727	168	162	101.2	864	914		
ENTRANCES																	
STA 81+16.00				134						18.3		11.0					98
STA 82+12.00			55						7.2		4.3					31	
STA 89+03.00				59						7.8		4.7					66
STA 89+58.00			39						5.2		3.1					42	
TOTALS:	5011		288		10974		8943		2405		549		209.6	2873		237	

STONE RIPRAP AND FILTER FABRIC SCHEDULE

ROADWAY	STATION	OFFSET	WIDTH (FEET)	LENGTH (FEET)	STONE RIPRAP CL A4 SQ YD	STONE RIPRAP CL A5 SQ YD	FILTER FABRIC SQ YD
MINKLER ROAD	81+60.00	35.7' RT	9	24		29.0	29.0
MINKLER ROAD	82+35.00	38.0' LT	4	16	12.0		12.0
MINKLER ROAD	83+00.00	47.6' RT	9	24		29.0	29.0
MINKLER ROAD	84+18.00	25.0' RT	10	25		29.0	29.0
MINKLER ROAD	85+60.00	46.0' RT	4	16	12.0		12.0
MINKLER ROAD	87+28.27	43.3' LT	4	16	12.0		12.0
MINKLER ROAD	88+78.00	40.0' RT	4	16	12.0		12.0
TOTAL					48	87	135

NOTE: SEE STRUCTURAL PLANS AND SCHEDULES FOR ADDITIONAL QUANTITIES.

PERIMETER EROSION BARRIER

ROADWAY	STATION BEGIN	LT/RT	STATION END	LT/RT	LENGTH (FEET)
MINKLER ROAD	80+20.00	RT	81+09.00	RT	89.00
MINKLER ROAD	81+23.00	RT	81+56.00	RT	32.56
MINKLER ROAD	82+80.00	LT	84+45.00	LT	175.68
MINKLER ROAD	84+45.00	LT	84+80.00	LT	121.31
MINKLER ROAD	84+50.00	LT	84+80.00	RT	29.27
MINKLER ROAD	84+70.00	RT	85+05.00	LT	122.90
MINKLER ROAD	84+70.00	LT	85+20.00	LT	51.06
MINKLER ROAD	85+05.00	LT	89+03.00	RT	388.28
MINKLER ROAD	87+20.00	LT	89+44.00	LT	227.95
MINKLER ROAD	89+12.00	RT	92+25.00	RT	309.15
MINKLER ROAD	89+70.00	LT	92+25.00	LT	265.33
TOTAL					1813

UNDERDRAIN SCHEDULE

LOCATION	PIPE UNDERDRAINS 4" (SPECIAL)	PIPE UNDERDRAINS TYPE 3	CONCRETE HEADWALLS FOR PIPE DRAINS
MINKLER ROAD			
STA 80+50.00 LT	30		1
STA 80+20.00 TO STA 80+50.00 LT		30	
STA 80+50.00 RT	28		1
STA 80+20.00 TO STA 80+50.00 RT		30	
STA 80+50.00 TO STA 83+50.00 LT		300	
STA 80+50.00 TO STA 83+50.00 RT		300	
STA 83+50.00 RT	45		1
STA 83+50.00 LT	20		1
STA 83+50.00 TO STA 84+00.00 RT		50	
STA 83+50.00 TO STA 84+00.00 LT		50	
STA 86+50.00 LT	20		1
STA 86+50.00 RT	41		1
STA 86+50.00 TO STA 90+50.00 LT		400	
STA 86+50.00 TO STA 90+50.00 RT		400	
STA 90+50.00 LT	17		1
STA 90+50.00 RT	41		1
STA 90+50.00 TO STA 92+06.00 LT		156	
STA 90+50.00 TO STA 92+06.00 RT		156	
PIPE UNDERDRAIN 4" FOR STRUCTURES			4
QTY FOR UNDERCUT AREAS	200		
TOTAL	441	1,872	12

NOTE: SEE HIGHWAY STANDARD 601001 FOR PLACEMENT OF PIPE UNDERDRAIN 4" (SPECIAL).

GUARDRAIL SCHEDULE

LOCATION	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (FOOT)	TRAFFIC BARRIER TERMINAL			TERMINAL MARKER DIRECT APPLIED (EACH)	GUARDRAIL REFLECTORS TYPE A (EACH)	BARRIER WALL REFLECTORS TYPE B (EACH)
		TYPE 2 (EACH)	TYPE 6 (EACH)	TYPE 1, SPECIAL TANGENT (EACH)			
MINKLER ROAD							
NORTHBOUND	112.5	1	2	1	2	4	2
SOUTHBOUND	250.0	1	2	1	2	6	2
TOTAL	362.5	2	4	2	4	10	4

SIGN SCHEDULE

STATION	OFFSET	Road	W WIDTH (FT)	H HEIGHT (FT)	AREA	SIGN CODE	SIGN PANEL - TYPE 1 (SQ FT)	TELESCOPING STEEL SIGN SUPPORT (FT)
							72000100	72800100
80+50	23.0' RT	Minkler Road	2.50	2.50	6.25	W1-2R-3030	6.25	14.0
88+94	23.0' LT	Minkler Road	2.50	2.50	6.25	W11-7-3030	6.25	14.0
91+75	23.0' LT	Minkler Road	2.50	2.50	6.25	W1-2L-3030	6.25	14.0
							18.75	42

PAVEMENT MARKING SCHEDULE

LOCATION	MODIFIED URETHANE PAVEMENT MARKING LINE - 4"								GROOVING FOR RECESSED PAVEMENT MARKING - 5"				RECESSED REFLECTIVE PAVEMENT MARKER (EACH)	RECESSED REFLECTIVE PAVEMENT MARKER REMOVAL (EACH)
	EDGE LINE SOLID WHITE		CENTERLINE SOLID DOUBLE YELLOW		EDGE LINE SOLID WHITE		CENTERLINE SOLID DOUBLE YELLOW		RECESSED REFLECTIVE PAVEMENT MARKER (EACH)	RECESSED REFLECTIVE PAVEMENT MARKER REMOVAL (EACH)				
	LEFT (FOOT)	RIGHT (FOOT)	LEFT (FOOT)	RIGHT (FOOT)	LEFT (FOOT)	RIGHT (FOOT)	LEFT (FOOT)	RIGHT (FOOT)						
MINKLER ROAD														
STA 80+20.00 TO STA 92+06.00	2372	2372	2372	2372	1186	1186	1186	1186	60	4				
TOTALS:	9,488				4,744				60	4				

NOTE: QUANTITY FOR TWO (2) APPLICATIONS OF MODIFIED URETHANE PAVEMENT MARKINGS HAS BEEN INCLUDED AND IS REQUIRED TO AVOID SHORT TERM FADING.

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/20/24-err+sch.dgn
 PEN TABLE: 10/16/24.tbl



USER NAME = amiller	DESIGNED - JMR	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - AJM	REVISED -
PLOT DATE = 9/24/2024	CHECKED - JMR	REVISED -
	DATE - 6/25/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-0053-00-BR	KENDALL	62	11
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION	TOPSOIL EXCAVATION (CU YD)	TOPSOIL EXCAVATION ADJUSTED FOR SRINKAGE (25%) (CU YD)	TOPSOIL FURNISH AND PLACE 4" (SQ YD)	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SRINKAGE (25%) (CU YD)	EMBANKMENT (CU YD)	EARTH BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SQ YD)
MINKLER ROAD									
BEGIN IMPROVEMENTS (STA 80+20.00) TO SOUTH ABUTMENT (STA 84+32.81)	526	394	3469	983	737	3605	-2869	3214	2529
MORGEN CREEK CHANNEL	160	120	0	297	223	59	164	69	0
NORTH ABUTMENT (STA 85+10.07) TO END IMPROVEMENTS (STA 92+06.00)	845	634	4034	1130	847	3700	-2852	2714	2936
TOTAL	1,532	1,148	7,503	2,409	1,807	7,364	-5,557	5,996	5,465

NOTES:

- ALL MATERIAL TO BE UTILIZED AS EMBANKMENT ON THIS PROJECT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS INCLUDED IN THIS CONTRACT AT THE TIME OF LETTING.
- EXCESS TOPSOIL SHALL BE UTILIZED IN THE EMBANKMENT TO REDUCE THE VOLUME OF FURNISHED EXCAVATION NEEDED, HOWEVER THE USE OF TOPSOIL IN THE EMBANKMENT SHALL BE IN ACCORDANCE WITH NOTE #1 ABOVE. THE EARTHWORK SCHEDULE HAS NOT BEEN ADJUSTED TO ACCOUNT FOR USE OF EXCESS TOPSOIL IN EMBANKMENT.

SHRINKAGE FACTORS

TOPSOIL & EARTH EXCAVATION 25%

PAY ITEMS

20200100	EARTH EXCAVATION	2,409	CU YD
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	5,996	CU YD
20400800	FURNISHED EXCAVATION	5,557	CU YD
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	5,465	SQ YD
21101615	TOPSOIL FURNISH AND PLACE, 4"	7,503	SQ YD

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/20/24/08-ent-sch01.dgn
 PEN TABLE: 08/20/24/08-ent-sch01.tbl



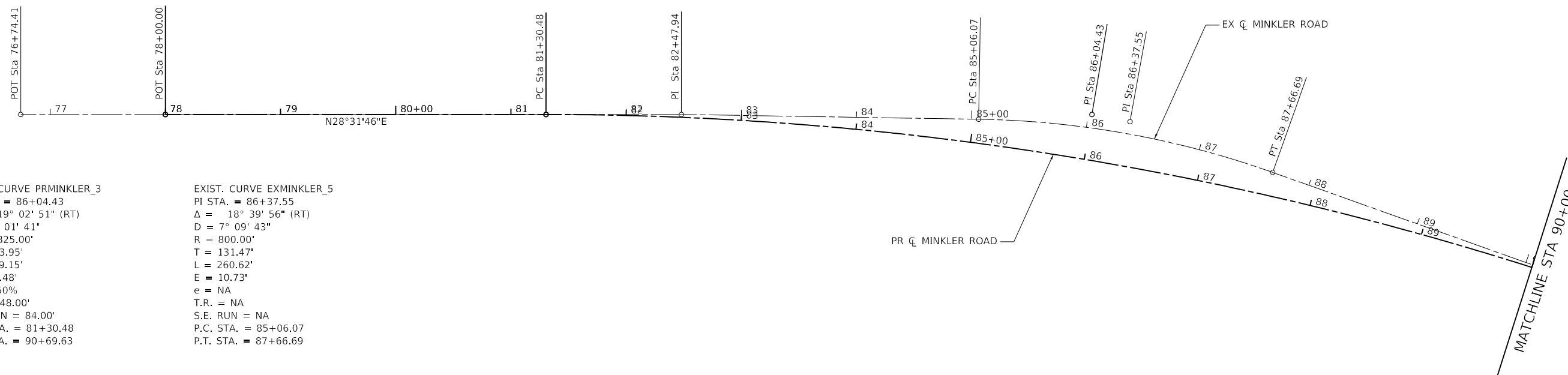
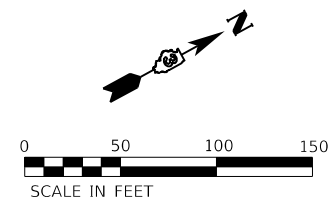
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	DRAWN - AJM	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EARTHWORK SCHEDULE

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	12
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



PROP. CURVE PRMINKLER_3
 PI STA. = 86+04.43
 $\Delta = 19^\circ 02' 51''$ (RT)
 $D = 2^\circ 01' 41''$
 $R = 2,825.00'$
 $T = 473.95'$
 $L = 939.15'$
 $E = 39.48'$
 $e = 3.50\%$
 $T.R. = 48.00'$
 $S.E. RUN = 84.00'$
 $P.C. STA. = 81+30.48$
 $P.T. STA. = 90+69.63$

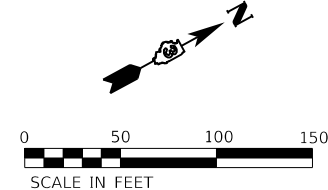
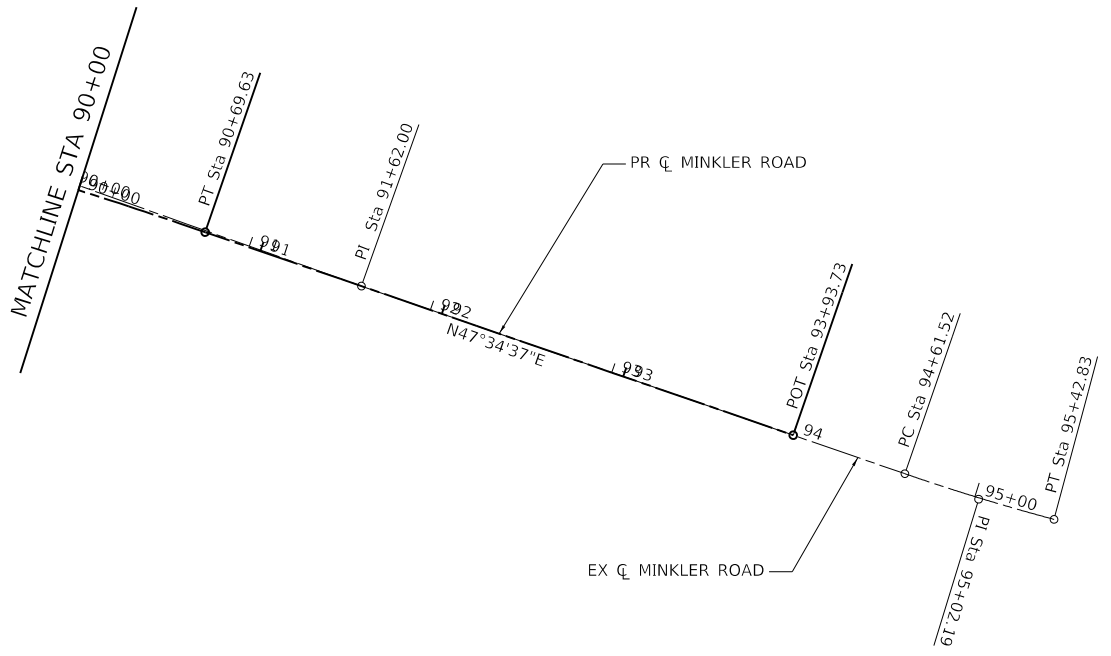
EXIST. CURVE EXMINKLER_5
 PI STA. = 86+37.55
 $\Delta = 18^\circ 39' 56''$ (RT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 131.47'$
 $L = 260.62'$
 $E = 10.73'$
 $e = NA$
 $T.R. = NA$
 $S.E. RUN = NA$
 $P.C. STA. = 85+06.07$
 $P.T. STA. = 87+66.69$

PROPOSED MINKLER ROAD

DESCRIPTION	STATION	NORTHING	EASTING
POT	78+00.00	1,813,858.94	970,651.98
PC	81+30.48	1,814,149.29	970,809.82
PI	86+04.43	1,814,565.69	971,036.19
PT	90+69.63	1,814,885.41	971,386.05
POT	93+93.73	1,815,104.05	971,625.29

BENCHMARKS

SOURCE BENCHMARK:
 OSWEGO 0003 - ARBOR GATE
 BERSTEIN MONUMNET
 ELEVATION: 645.01 (NAVD88)



HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/28/24/24-08-01-01-01.dwg
 PEN TABLE: 01/10/2024

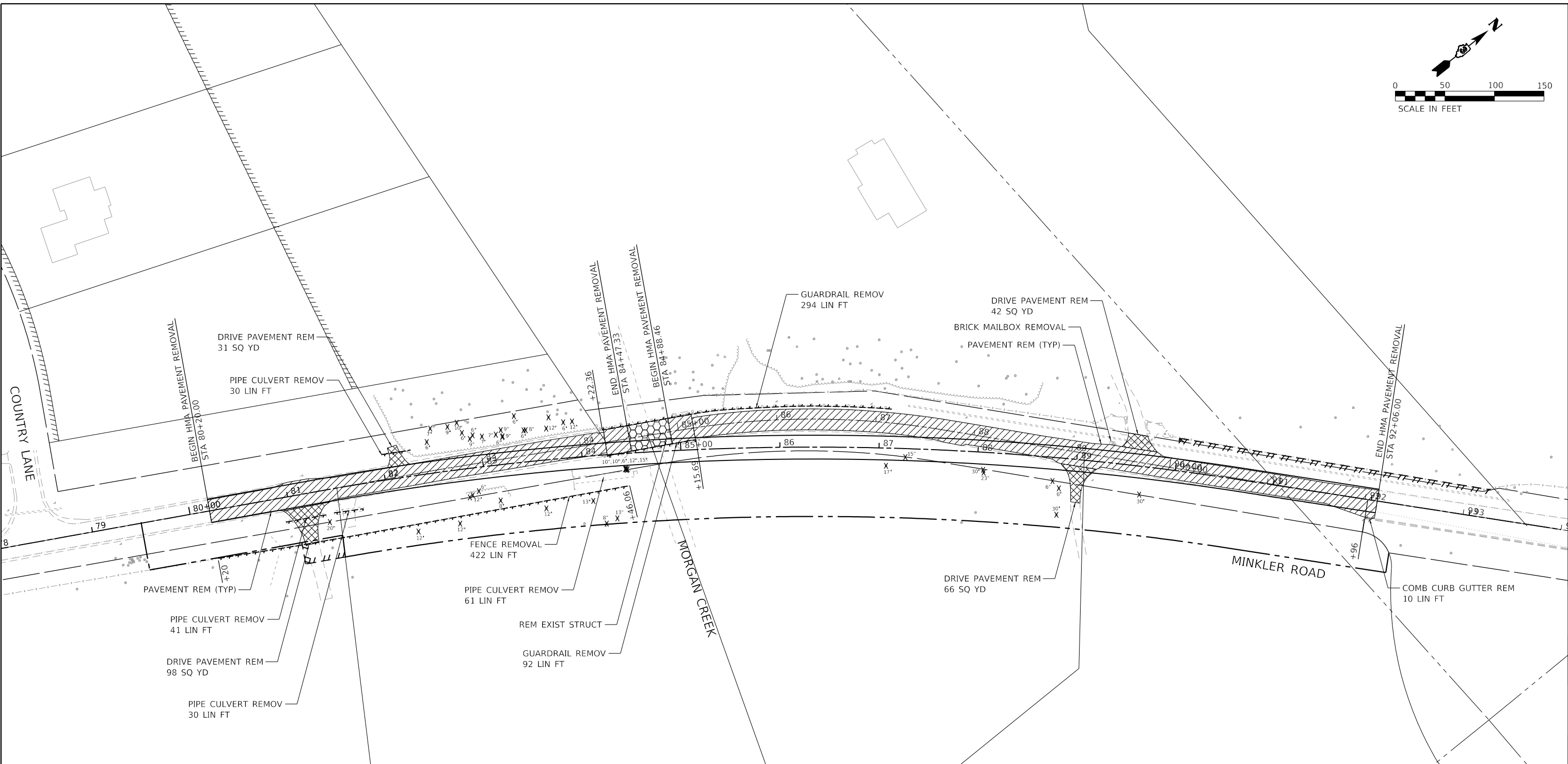
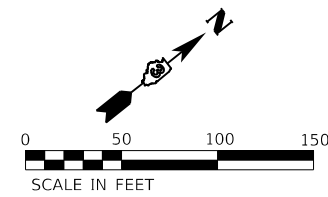


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PLOT SCALE = 100.0000' / in.	DRAWN - AJM	REVISED -
PLOT DATE = 8/28/2024	CHECKED - JMR	REVISED -
	DATE - 6/25/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND BENCHMARKS			
MINKLER ROAD			
SCALE: 1" = 50'	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	13
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



NOTE:
 1. TREES 3-INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT WILL NOT BE CLEARED APRIL 1 THROUGH SEPTEMBER 30.

LEGEND		STRUCTURES TO BE REMOVED, ADJUSTED, OR RECONSTRUCTED	
	PAVEMENT REMOVAL		REMOVED
	ENTRANCE REMOVAL		ADJUSTED
	BRIDGE REMOVAL		RECONSTRUCTED
	CURB & GUTTER REMOVAL		EXISTING RIGHT OF WAY
	LINEAR REMOVAL		EXISTING EASEMENT
	ITEM / TREE REMOVAL		PROPOSED RIGHT OF WAY
			PROPOSED TEMPORARY EASEMENT
			PROPOSED PERMANENT EASEMENT
			CONSTRUCTION LIMITS

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/28/24-20-srt-rem02.dgn
 PEN TABLE: 08/28/24.tbl



USER NAME = jroitbu	DESIGNED - JMR	REVISED -
	DRAWN - AJM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 MINKLER ROAD**

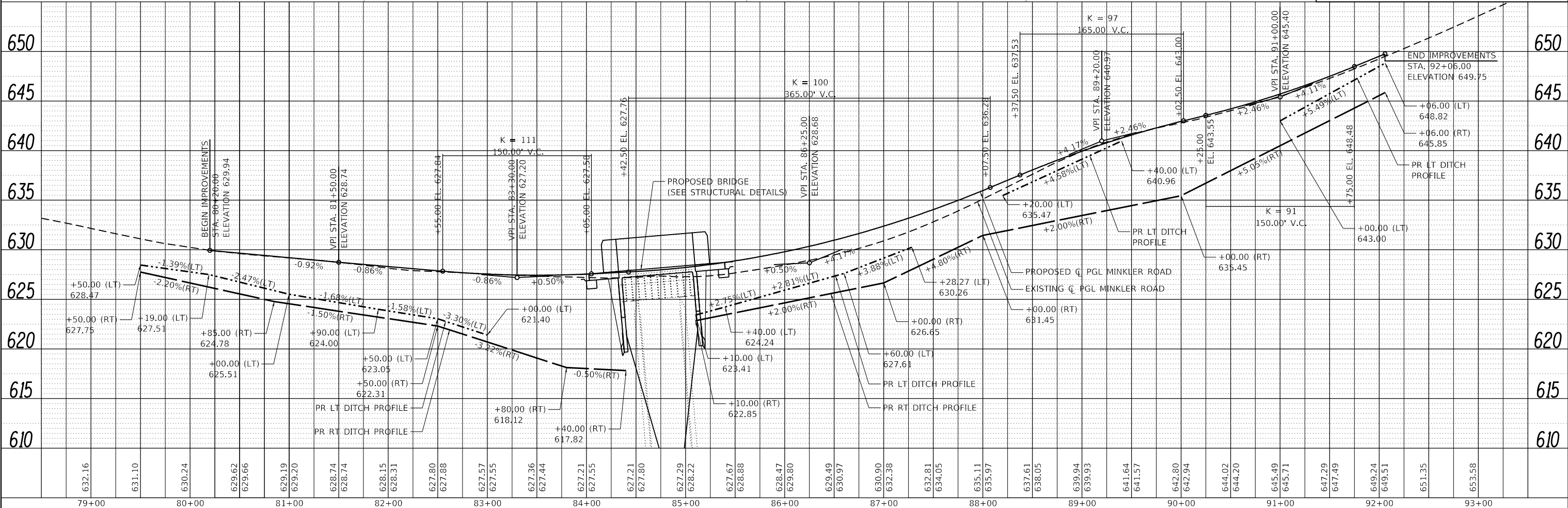
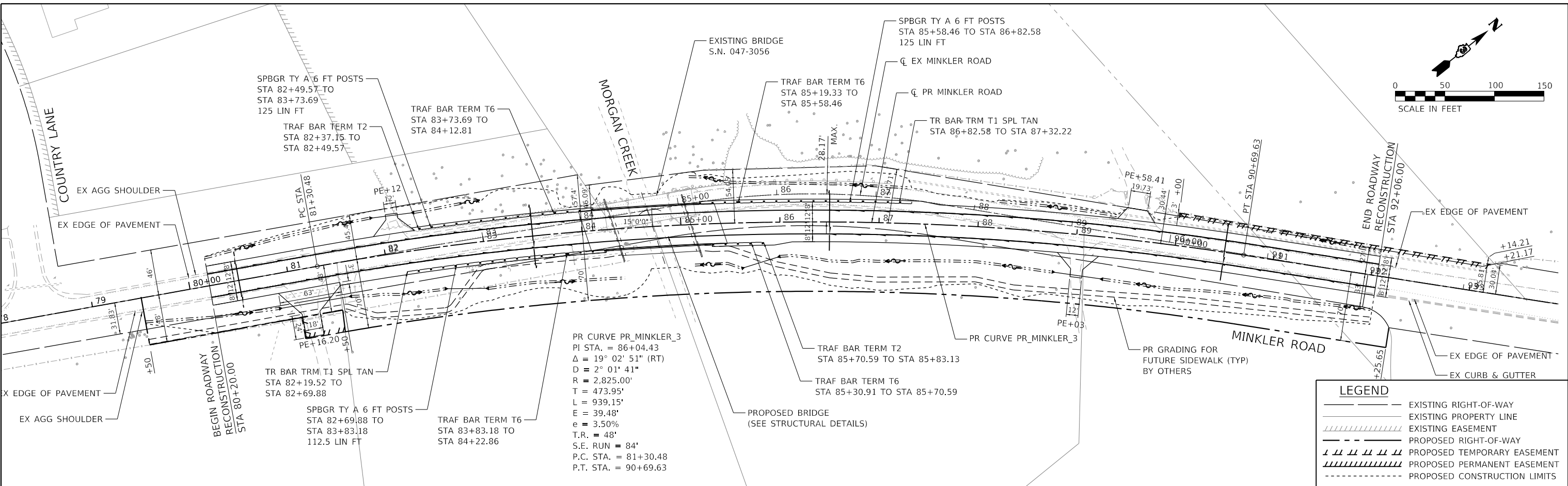
SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	14
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		

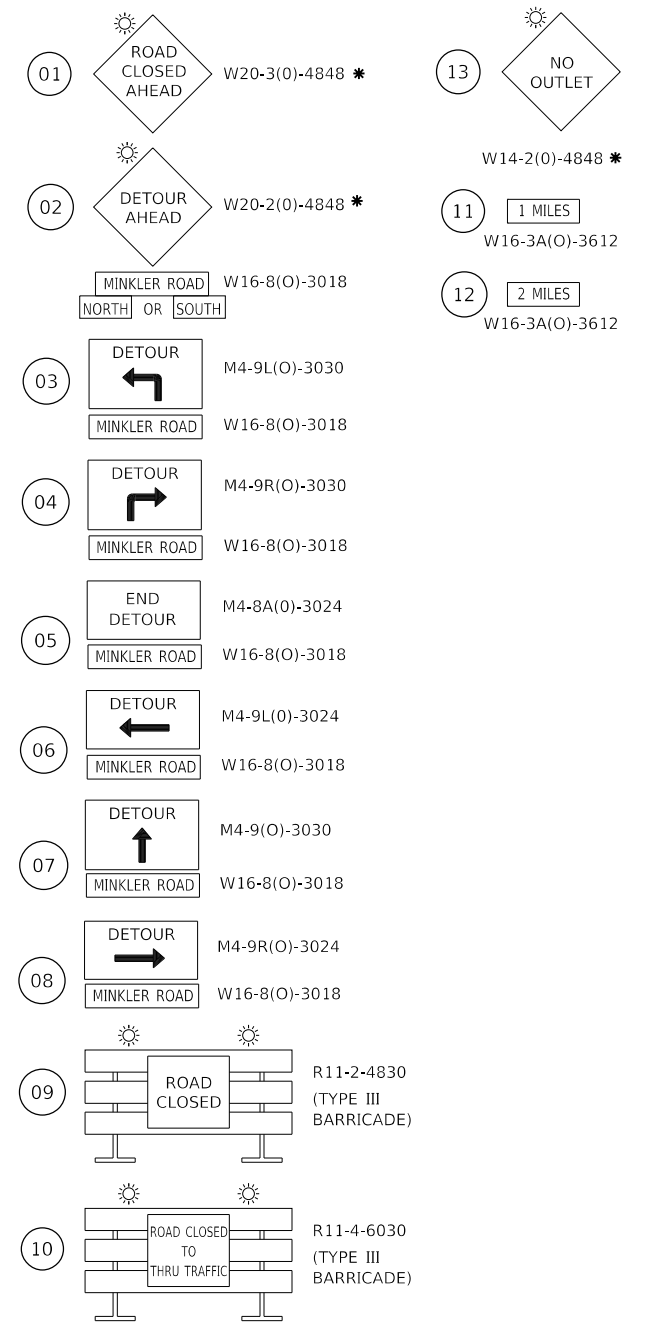
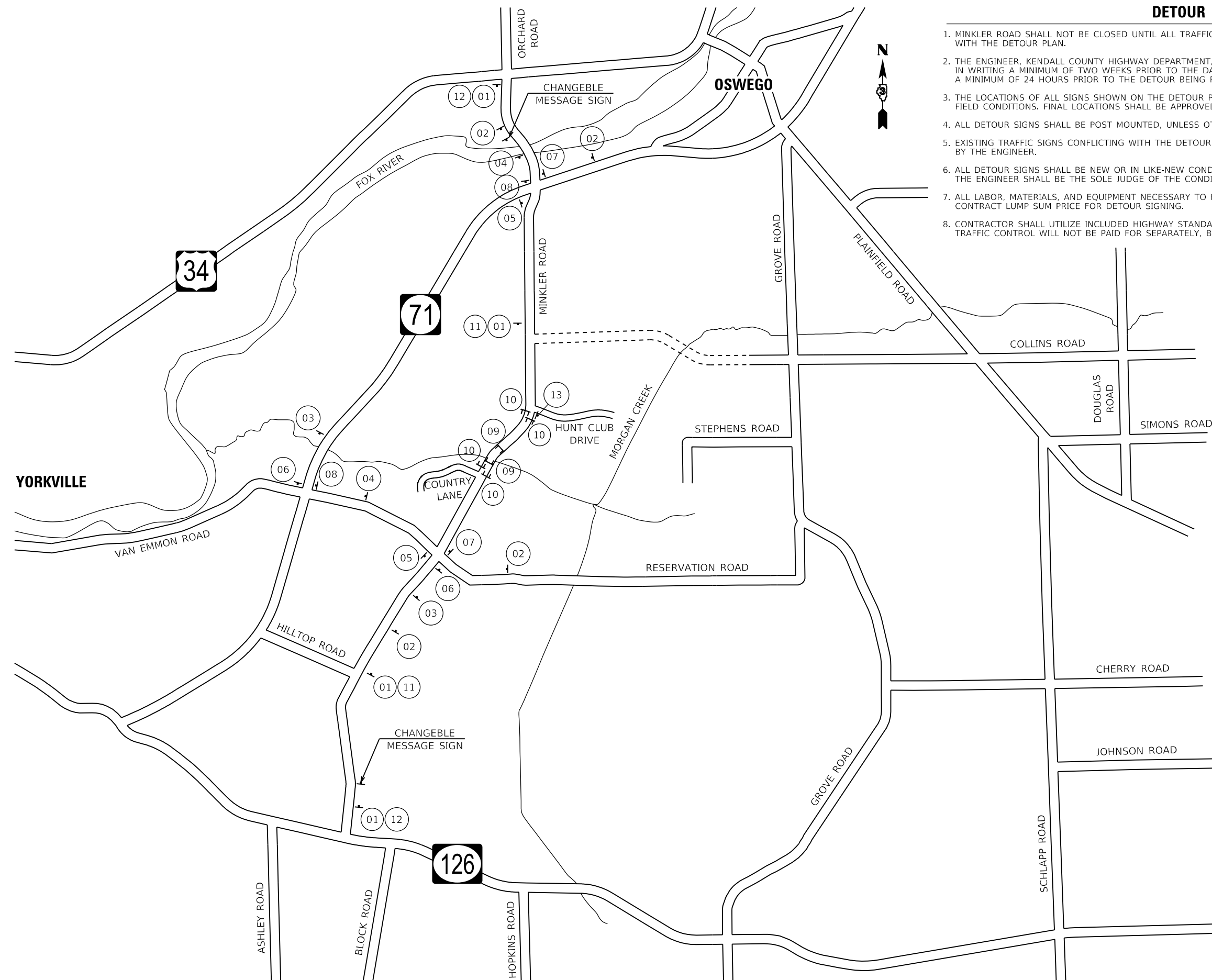
HRG PROJECT NO. 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/22/24-srt+prp01.dgn
 PEN TABLE: srt+prp01.tbl



	USER NAME = jroibu	DESIGNED - JMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILES MINKLER ROAD	F.A.U. RTE. = 3792	SECTION = 21-00053-00-BR	COUNTY = KENDALL	TOTAL SHEETS = 62	SHEET NO. = 15
	PLOT SCALE = 100.0000' / in.	CHECKED - JMR	REVISED -			SCALE: 1" = 50'	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 87868	
	PLOT DATE = 8/28/2024	DATE = 6/25/2024	REVISED -			ILLINOIS FED. AID PROJECT				

DETOUR - GENERAL NOTES

- MINKLER ROAD SHALL NOT BE CLOSED UNTIL ALL TRAFFIC CONTROL AND PROTECTION HAS BEEN ESTABLISHED IN ACCORDANCE WITH THE DETOUR PLAN.
- THE ENGINEER, KENDALL COUNTY HIGHWAY DEPARTMENT, AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED IN WRITING A MINIMUM OF TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THESE PARTIES SHALL ALSO BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE DETOUR BEING REMOVED AND MINKLER ROAD IS REOPENED TO NORMAL TRAFFIC OPERATIONS.
- THE LOCATIONS OF ALL SIGNS SHOWN ON THE DETOUR PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST LOCATIONS TO FIT FIELD CONDITIONS. FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- ALL DETOUR SIGNS SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
- EXISTING TRAFFIC SIGNS CONFLICTING WITH THE DETOUR SIGNAGE SHALL BE TEMPORARILY REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.
- ALL DETOUR SIGNS SHALL BE NEW OR IN LIKE-NEW CONDITION WITH BLACK LETTERING ON FLORESCENT ORANGE. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
- ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH, INSTALL AND MAINTAIN THE DETOUR WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR DETOUR SIGNING.
- CONTRACTOR SHALL UTILIZE INCLUDED HIGHWAY STANDARDS FOR TRAFFIC CONTROL AS NEEDED, OR AS DIRECTED BY THE ENGINEER. TRAFFIC CONTROL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR DETOUR SIGNING.



* FLASHING LIGHT SHALL BE ON THE TRAFFIC SIDE OF THE SIGN.

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/28/2024-17087-01-17087-01-17087-01-17087-01-17087-01.dgn
 PEN TABLE: 17087.tbl



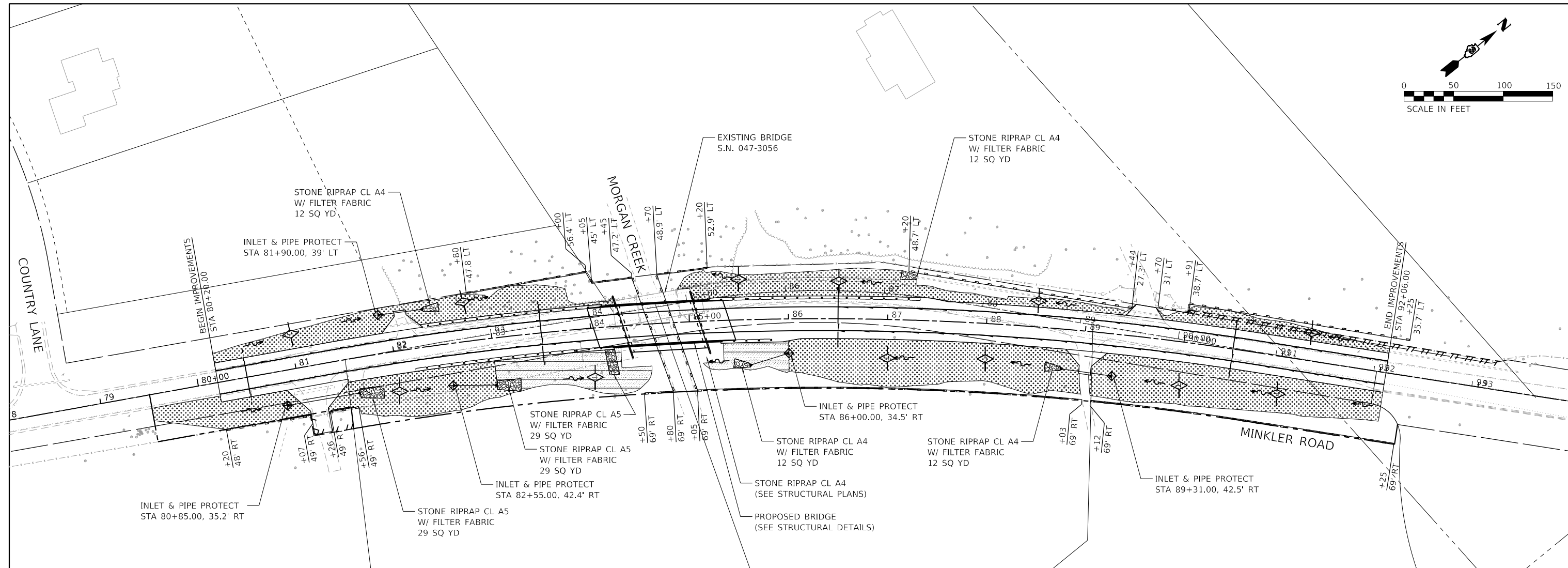
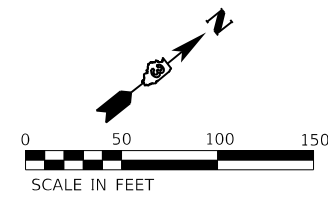
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PLOT DATE = 8/28/2024	CHECKED - JMR	REVISED -
	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLANS
MINKLER ROAD**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	16
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



TEMPORARY DITCH CHECK SCHEDULE

ROADWAY	STATION	OFFSET	Each
MINKLER ROAD	82+00.00	40.5' RT	1.0
MINKLER ROAD	84+00.00	49.5' RT	1.0
MINKLER ROAD	81+00.00	35.0' LT	1.0
MINKLER ROAD	82+75.00	40.0' LT	1.0
MINKLER ROAD	85+50.00	41.0' LT	1.0
MINKLER ROAD	86+50.00	38.0' LT	1.0
MINKLER ROAD	87+00.00	39.0' RT	1.0
MINKLER ROAD	88+00.00	36.5' RT	1.0
MINKLER ROAD	88+50.00	26.5' LT	1.0
MINKLER ROAD	90+00.00	44.0' RT	1.0
MINKLER ROAD	91+00.00	38.0' RT	1.0
MINKLER ROAD	91+25.00	29.0' LT	1.0
TOTAL			12.0

NOTE: SEE STRUCTURAL PLANS AND SCHEDULES FOR ADDITIONAL QUANTITIES.

LEGEND

	EXISTING RIGHT-OF-WAY		SEEDING, CLASS 2A / EROSION CONTROL BLANKET
	EXISTING EASEMENT		SEEDING, CLASS 3 / HD EROSION CONTROL BLANKET
	PROPOSED RIGHT-OF-WAY		RIPRAP
	PROPOSED TEMPORARY EASEMENT		INLET & PIPE PROTECTION
	PROPOSED PERMANENT EASEMENT		PERIMETER EROSION BARRIER
	LIMITS OF CONSTRUCTION		PROPOSED DITCH FLOW DIRECTION
	PROPOSED DRAINAGE OUTLET		PROPOSED SWALE
	PROPOSED SHEET FLOW		PROPOSED SUMMIT

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/28/24-01-err+eros01.dgn
 PEN TABLE: 01/10/24/01/17



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PLOT SCALE = 100,0000' / in.	DRAWN - AJM	REVISED -
PLOT DATE = 8/28/2024	CHECKED - JMR	REVISED -
	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLANS AND SCHEDULES
MINKLER ROAD**

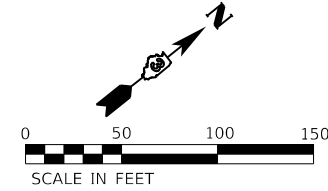
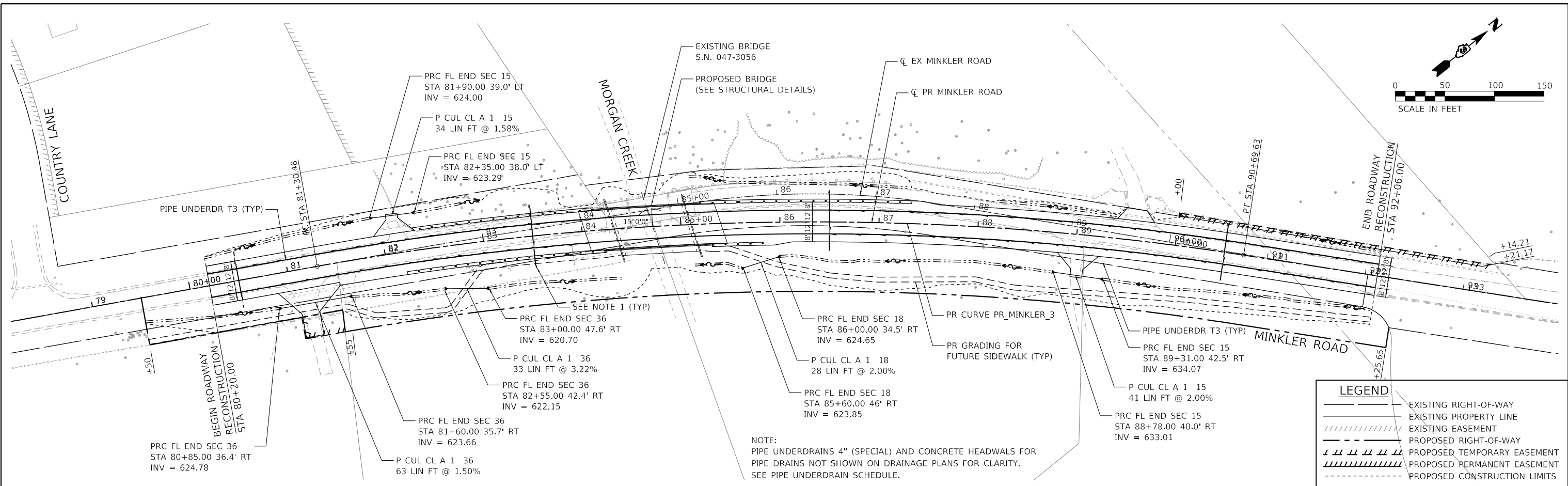
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	17
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

PLAN	DATE
BY	
BY	
BY	
BY	
BY	
BY	

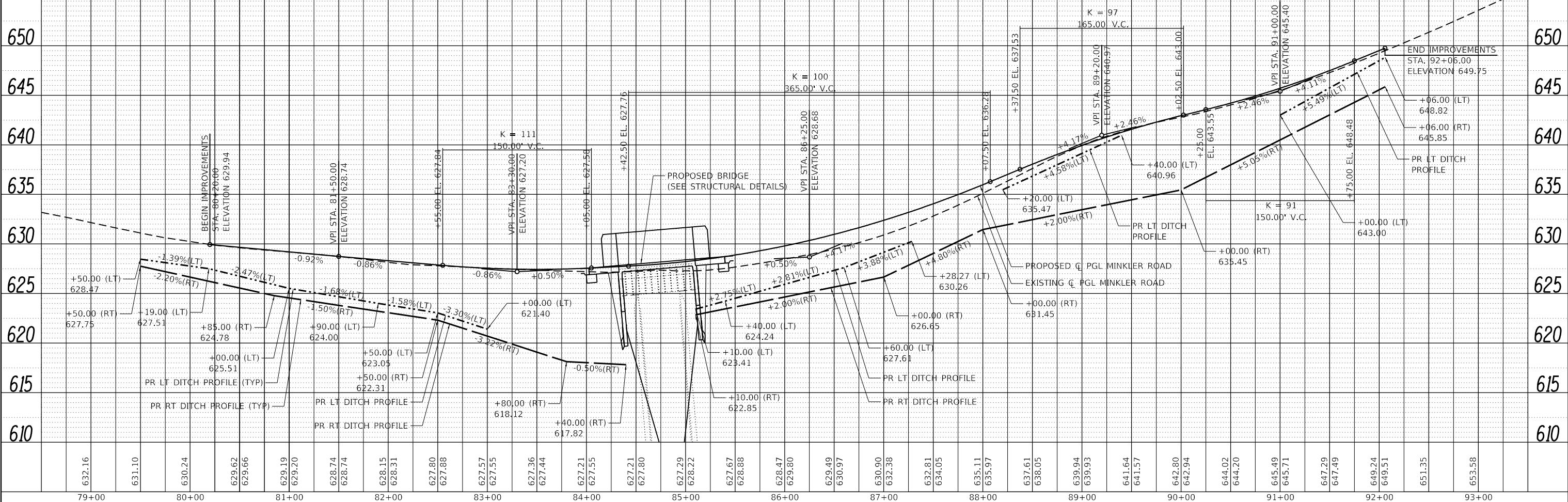
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BY	
BY	
BY	
BY	
BY	
BY	

HRG PROJECT NO: 17087.01
 HRG PROJ CONTACT:
 FILE NAME: 08/22/24-srt-drain.dgn
 PEN TABLE: srt-table.tbl



LEGEND

(Symbol: Solid line with dots)	EXISTING RIGHT-OF-WAY
(Symbol: Solid line)	EXISTING PROPERTY LINE
(Symbol: Dashed line)	EXISTING EASEMENT
(Symbol: Dotted line)	PROPOSED RIGHT-OF-WAY
(Symbol: Long dashed line)	PROPOSED TEMPORARY EASEMENT
(Symbol: Short dashed line)	PROPOSED PERMANENT EASEMENT
(Symbol: Dotted line with dots)	PROPOSED CONSTRUCTION LIMITS



DESIGNED -	JMR	REVISED -	
DRAWN -	AJM	REVISED -	
CHECKED -	JMR	REVISED -	
DATE -	6/25/2024	REVISED -	

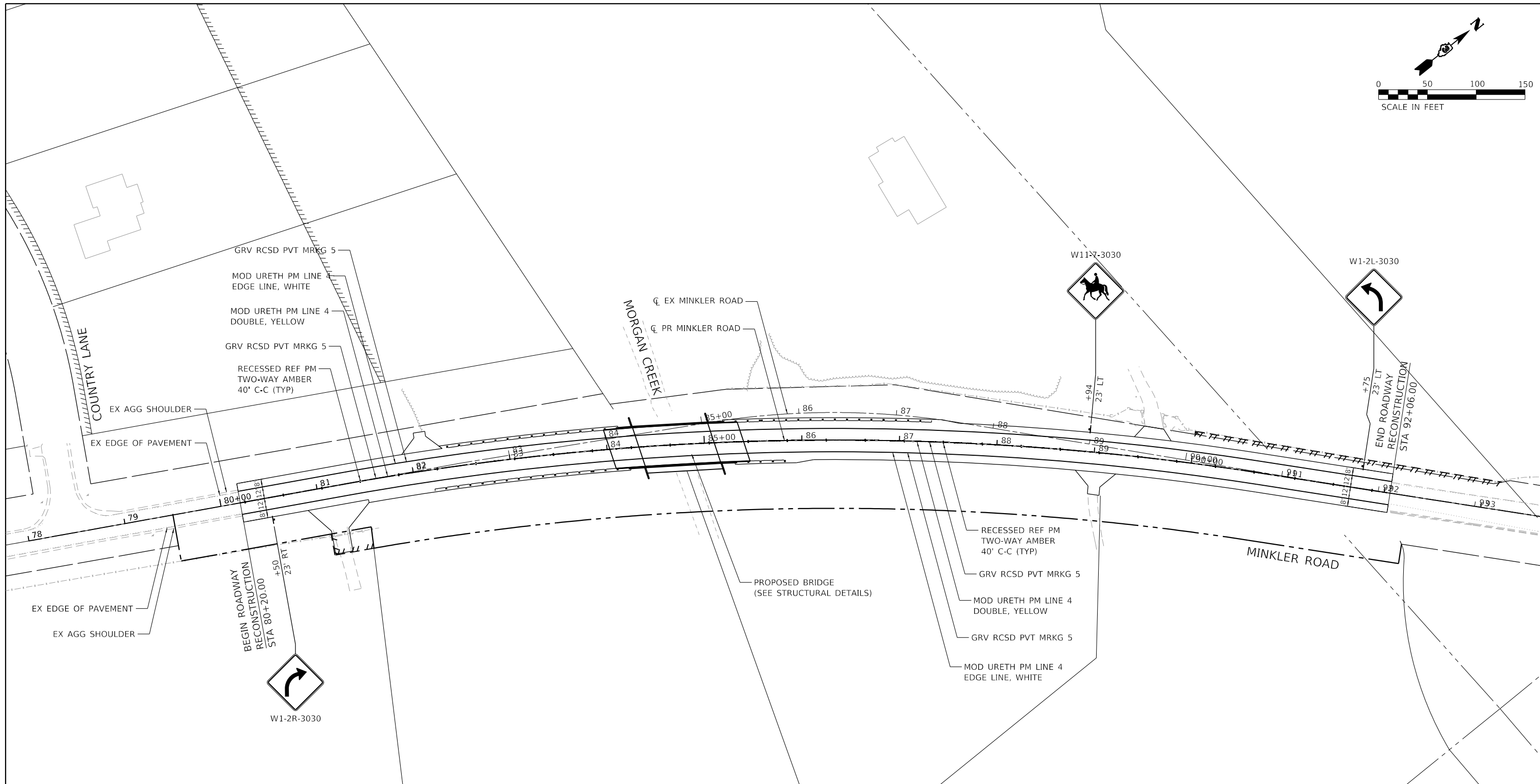
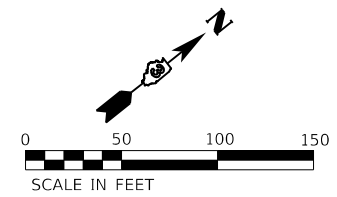
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILES
MINKLER ROAD

SCALE: 1" = 50'

SHEET	1	OF	1	SHEETS
STA.	TO STA.			

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	18
		CONTRACT NO. 87868		
		ILLINOIS FED. AID PROJECT		



GRV RCSD PVT MRKG 5
 MOD URETH PM LINE 4
 EDGE LINE, WHITE
 MOD URETH PM LINE 4
 DOUBLE, YELLOW
 GRV RCSD PVT MRKG 5
 RECESSED REF PM
 TWO-WAY AMBER
 40' C-C (TYP)

EX AGG SHOULDER
 EX EDGE OF PAVEMENT
 EX AGG SHOULDER
 EX EDGE OF PAVEMENT
 W1-2R-3030
 BEGIN ROADWAY
 RECONSTRUCTION
 STA 80+20.00
 +50
 23' RT

EX MINKLER ROAD
 PR MINKLER ROAD
 MORGAN CREEK

W11-7-3030
 +94
 23' LT

W1-2L-3030
 +75
 23' LT
 END ROADWAY
 RECONSTRUCTION
 STA 92+06.00

RECESSED REF PM
 TWO-WAY AMBER
 40' C-C (TYP)
 GRV RCSD PVT MRKG 5
 MOD URETH PM LINE 4
 DOUBLE, YELLOW
 GRV RCSD PVT MRKG 5
 MOD URETH PM LINE 4
 EDGE LINE, WHITE

PROPOSED BRIDGE
 (SEE STRUCTURAL DETAILS)

MINKLER ROAD

LEGEND	
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT
	PROPOSED PERMANENT EASEMENT
	PROPOSED CONSTRUCTION LIMITS

- NOTES:**
1. THE PAVEMENT MARKING ON THIS PROJECT SHALL BE MODIFIED URETHANE.
 2. ALL NEW SIGNS SHALL HAVE SIGN FACE MATERIAL IN ACCORDANCE WITH THE IDOT FABRICATION OF HIGHWAY SIGN POLICY PER SECTION 1091 OF THE STANDARD SPECIFICATIONS.
 3. ALL NEW SIGNS SHALL BE PLACED ON NEW SIGN SUPPORTS.
 4. THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS AS NECESSARY.
 5. QUANTITY FOR TWO (2) APPLICATIONS OF MODIFIED URETHANE PAVEMENT MARKINGS HAS BEEN INCLUDED AND IS REQUIRED TO AVOID SHORT TERM FADING.

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/28/24/08-28-24-pmk.dgn
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	DRAWN - AJM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNAGE PLANS
 MINKLER ROAD**

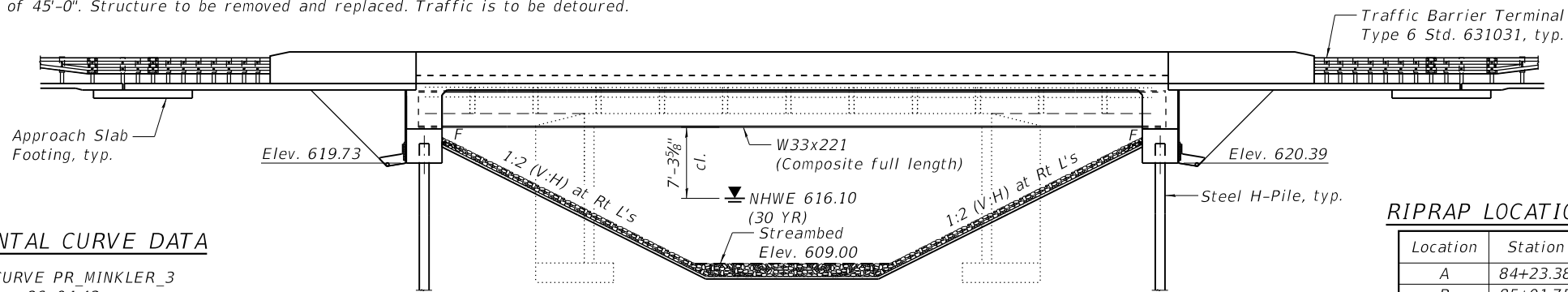
SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	19
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

Benchmark: Disk found in top concrete structure on southwest corner. Elev.: 625.33 (NAVD 88)

Existing Structure: S.N. 047-3056 originally built in 1914 and reconstructed in 1980 is a single span PPC deck beam superstructure with a deck width of 26'-0" and a back to back of abutment length of 45'-0". Structure to be removed and replaced. Traffic is to be detoured.

No Salvage



HORIZONTAL CURVE DATA

PROP. CURVE PR_MINKLER_3
 PI STA. = 86+04.43
 $\Delta = 19^\circ 02' 51"$ (RT)
 $R = 2,825.00'$
 $T = 473.95'$
 $L = 939.15'$
 $E = 39.48'$
 P.C. STA. = 81+30.48
 P.T. STA. = 90+69.63

LEGEND

- ◆ Soil Boring Location
- A — Aerial Utility
- G — Gas Utility
- T — Telephone Utility

ELEVATION

RIPRAP LOCATION TABLE

Location	Station	Offset
A	84+23.38	33.69' Lt
B	85+01.75	33.58' Lt
C	84+30.38	21.56' Rt
D	84+30.08	42.12' Rt
E	85+30.85	41.80' Rt
F	85+30.42	21.46' Rt

WATERWAY INFORMATION TABLE

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	700	171	207	615.30	0.0	0.1	615.30	615.40
Base	30	937	207	248	616.10	0.1	0.1	616.20	616.20
Overtopping	100	1,200	245	292	616.90	0.1	0.1	617.00	617.00
Max Calc.	500	1,580	296	349	618.00	0.1	0.2	618.10	618.20

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)		
State	S. Abut.	N. Abut.	Item 113
Q100	-	-	8
Q200	-	-	
Design	619.73	620.39	
Check	619.73	620.39	

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)

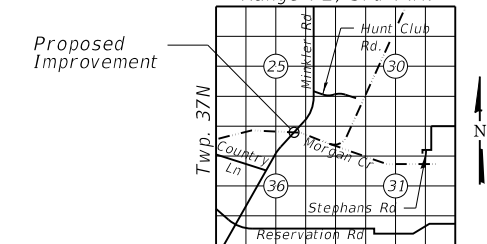
LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.061g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.125g
 Soil Site Class = C

Range 7E, 3rd P.M.



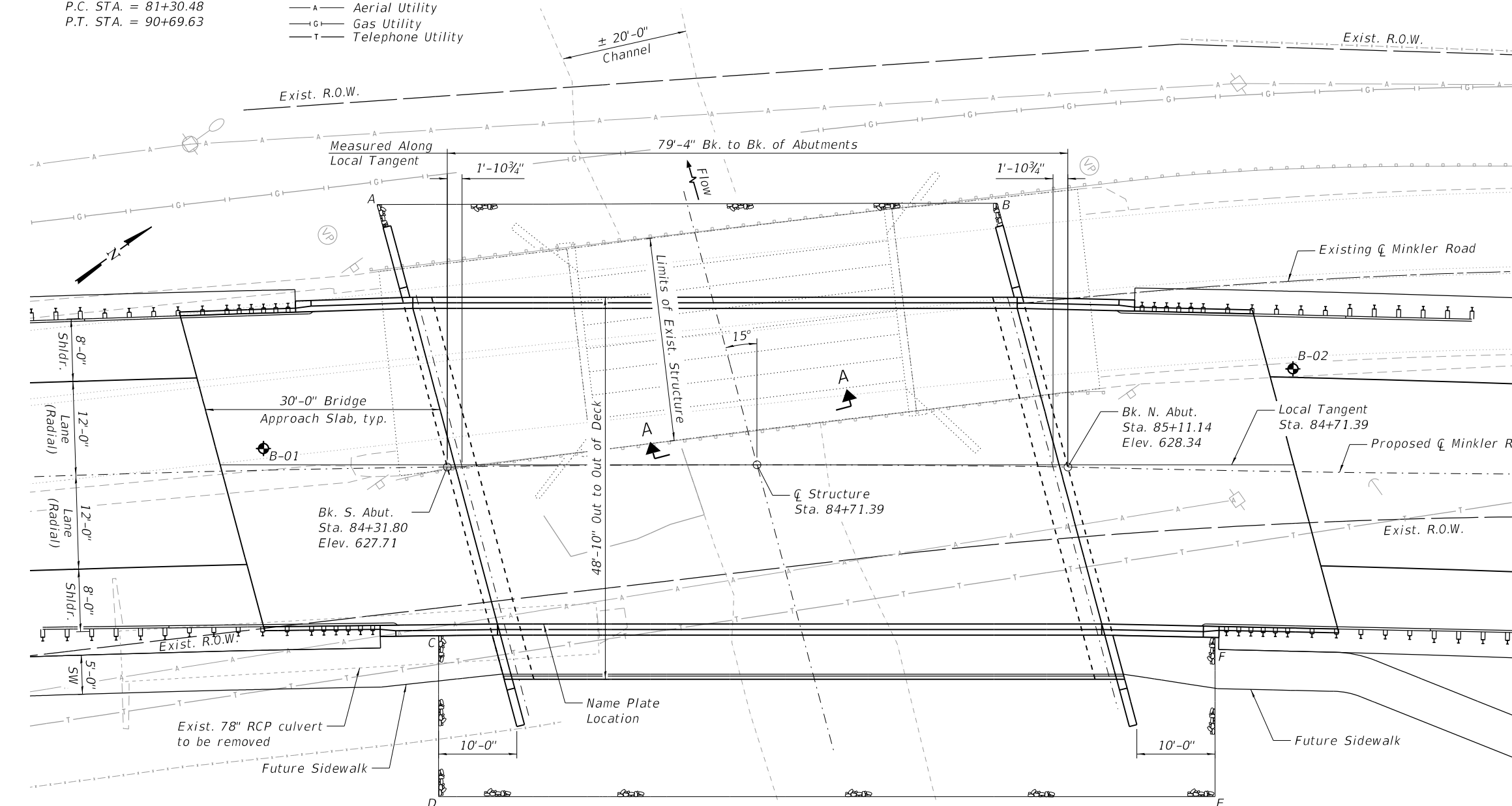
LOCATION SKETCH

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

Andy Underwager
 Structural Engineer Expires: 11/30/2024
 HR Green, Inc.



GENERAL PLAN & ELEVATION
MINKLER ROAD OVER MORGAN CREEK
F.A.U. RTE. 3792 SEC. 21-00053-00-BR
KENDALL COUNTY
STATION 84+71.39
STRUCTURE NO. 047-6708



PLAN

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-001-0PEL.dgn
 PLOT DRIVER: IL_Pdf.dwg/ptc/g
 PEN TABLE: plotlabel.tbl

HRGreen.com
 Multi Professional Design Firm
 #184-001322

USER NAME	DESIGNED	REVISIONS
amiller	FAS	-
	AEU	-
	FAS	-
	AEU	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	20
				CONTRACT NO. 87868

ILLINOIS FED. AID PROJECT

GENERAL NOTES

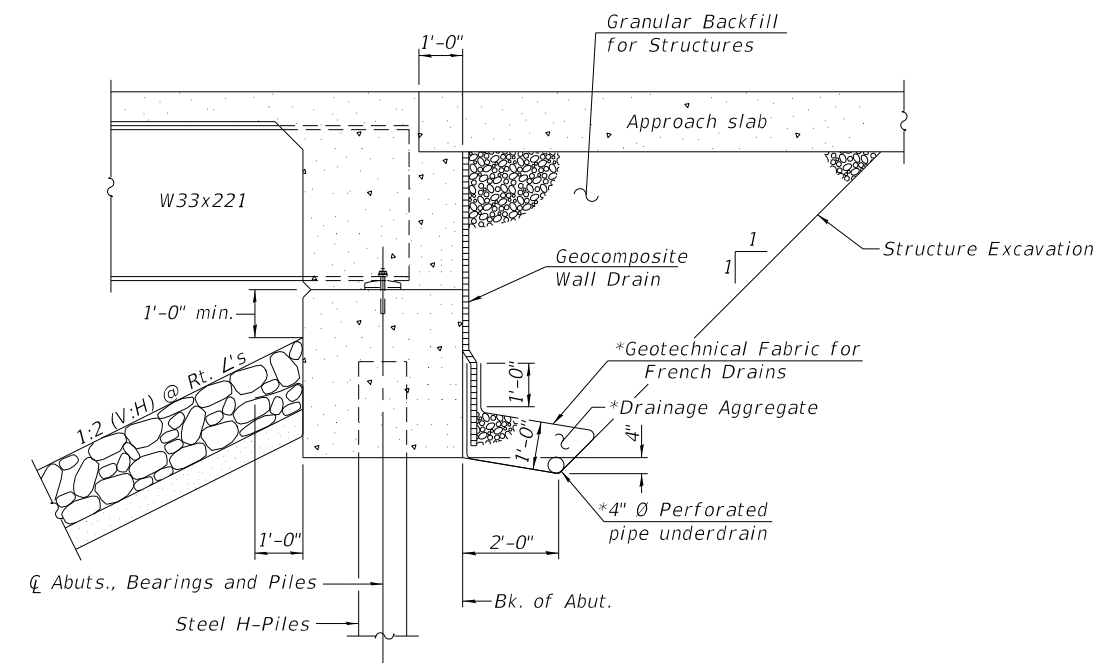
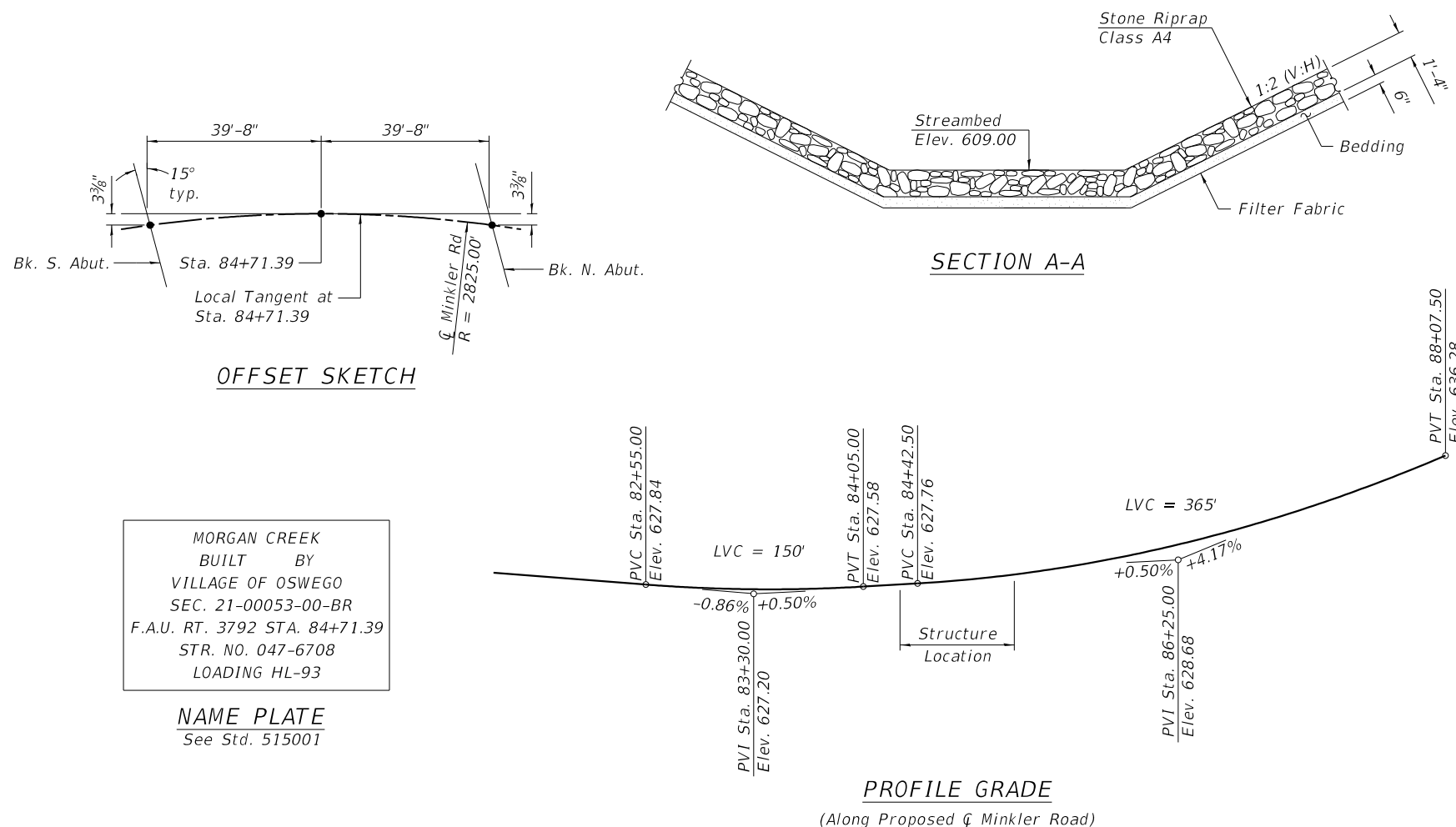
- Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Fasteners shall be ASTM F3125 Grade A325 Type 3, weathering steel bolts in unpainted areas. Bolts 7/8 in. diameter, holes 1 1/16 in. diameter, unless otherwise noted.
- Calculated weight of Structural Steel = 149,510 lbs.
- All structural steel shall be AASHTO M270 Grade 50W.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Structural steel shall be painted for a distance equal to the depth of the embedment into the concrete cap plus 18 in. Painted areas shall be primed in the shop with a Department-approved zinc rich primer. Field painting will not be required.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
- Slipforming of the parapets is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL QUANTITY
Stone Riprap Class A4	Sq. Yd.		720	720
Filter Fabric	Sq. Yd.		720	720
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		358	358
Concrete Structures	Cu. Yd.		89.5	89.5
Concrete Superstructure	Cu. Yd.	163.2		163.2
Bridge Deck Grooving	Sq. Yd.	583		583
Protective Coat	Sq. Yd.	792		792
Concrete Superstructure (Approach Slab)	Cu. Yd.	117.3		117.3
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1,992		1,992
Reinforcement Bars, Epoxy Coated	Pound	80,121	14,959	95,080
Bicycle Railing	Foot	77		77
Parapet Railing	Foot	103		103
Furnishing Steel Piles HP 12x63	Foot		560	560
Driving Piles	Foot		560	560
Test Pile Steel HP 12x63	Each		2	2
Pile Shoes	Each		16	16
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	32		32
Granular Backfill for Structures	Cu. Yd.		176	176
Geocomposite Wall Drain	Sq. Yd.		94	94
Pipe Underdrains for Structures, 4"	Foot		170	170
Bar Terminators	Each	280	480	760

INDEX OF SHEETS

- General Plan & Elevation
- General Data
- 5. Top of Slab Elevations
- 7. Top of Approach Slab Elevations
- Superstructure
- 10. Superstructure Details
- Diaphragm Details
- 14. Bridge Approach Slab Details
- 16. Bicycle Railing and Parapet Railing
- Framing Plan
- Structural Steel Details
- Bearing Details
- 21. Abutments
- HP Pile Details
- 24. Soil Boring Logs



MORGAN CREEK
 BUILT BY
 VILLAGE OF OSWEGO
 SEC. 21-00053-00-BR
 F.A.U. RT. 3792 STA. 84+71.39
 STR. NO. 047-6708
 LOADING HL-93

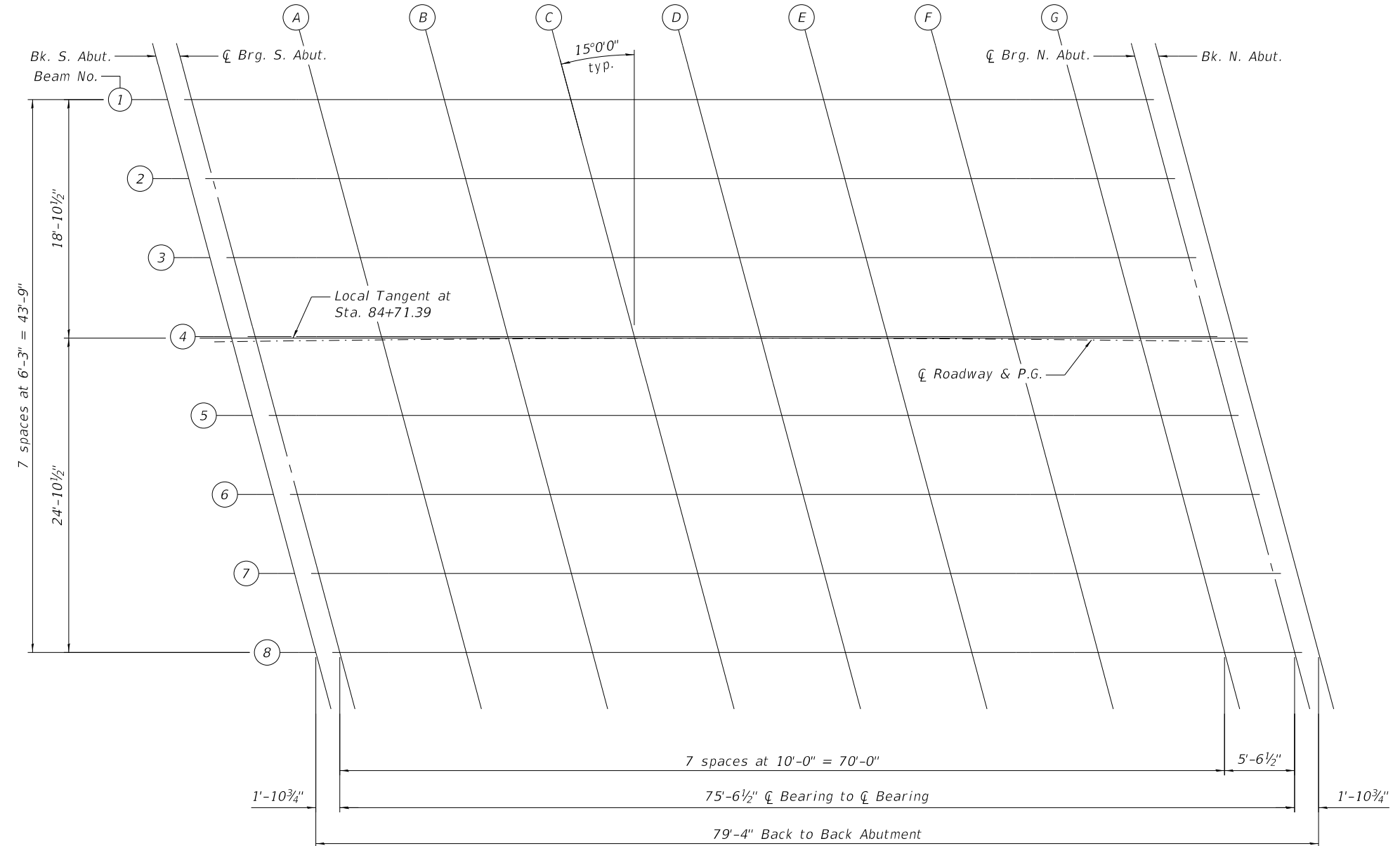
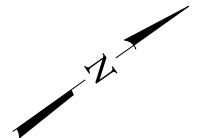
NAME PLATE
 See Std. 515001

*Included in the cost of Pipe Underdrains for Structures.

Note:
 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).

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PLAN

HRC PROJECT NO.: 17087.01
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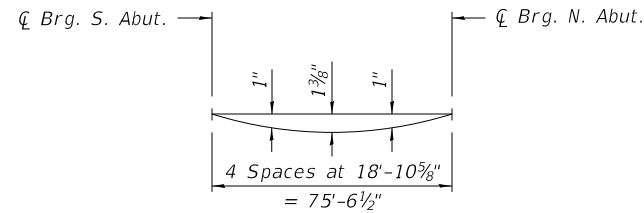
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PLOT DATE = 9/24/2024	CHECKED — AEU	REVISED —

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 047-6708

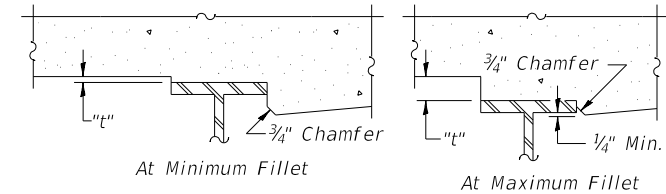
SHEET NO. 3 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	22
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



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

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below and on Sheet 5 of 24. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+26.97	-19.23	628.36	628.36
CL Brg. S. Abut.	84+28.85	-19.20	628.37	628.37
A	84+38.79	-19.06	628.42	628.46
B	84+48.72	-18.97	628.46	628.55
C	84+58.65	-18.90	628.52	628.63
D	84+68.59	-18.88	628.59	628.71
E	84+78.52	-18.88	628.67	628.77
F	84+88.46	-18.93	628.77	628.84
G	84+98.39	-19.00	628.87	628.90
CL Brg. N. Abut.	85+03.89	-19.06	628.93	628.93
Bk. N. Abut.	85+05.77	-19.09	628.95	628.95

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+28.54	-12.95	628.15	628.15
CL Brg. S. Abut.	84+30.43	-12.92	628.16	628.16
A	84+40.38	-12.80	628.20	628.25
B	84+50.34	-12.70	628.25	628.34
C	84+60.29	-12.65	628.32	628.43
D	84+70.25	-12.63	628.39	628.50
E	84+80.21	-12.64	628.47	628.57
F	84+90.16	-12.69	628.56	628.63
G	85+00.12	-12.77	628.67	628.70
CL Brg. N. Abut.	85+05.63	-12.83	628.73	628.73
Bk. N. Abut.	85+07.52	-12.86	628.76	628.76

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+30.11	-6.68	627.94	627.94
CL Brg. S. Abut.	84+32.01	-6.65	627.95	627.95
A	84+41.98	-6.53	627.99	628.04
B	84+51.96	-6.44	628.04	628.13
C	84+61.94	-6.39	628.11	628.22
D	84+71.92	-6.38	628.18	628.30
E	84+81.90	-6.39	628.27	628.37
F	84+91.87	-6.45	628.36	628.43
G	85+01.85	-6.54	628.47	628.50
CL Brg. N. Abut.	85+07.37	-6.60	628.53	628.53
Bk. N. Abut.	85+09.27	-6.63	628.56	628.56

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+31.70	-0.40	627.73	627.73
CL Brg. S. Abut.	84+33.60	-0.38	627.74	627.74
A	84+43.59	-0.26	627.78	627.83
B	84+53.59	-0.18	627.84	627.92
C	84+63.59	-0.14	627.90	628.01
D	84+73.59	-0.13	627.98	628.09
E	84+83.59	-0.15	628.06	628.16
F	84+93.59	-0.21	628.16	628.23
G	85+03.59	-0.31	628.27	628.30
CL Brg. N. Abut.	85+09.13	-0.38	628.34	628.34
Bk. N. Abut.	85+11.03	-0.40	628.36	628.36

LOCAL TANGENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+31.73	-0.28	627.72	627.72
CL Brg. S. Abut.	84+33.63	-0.25	627.73	627.73
A	84+43.63	-0.14	627.78	627.82
B	84+53.63	-0.06	627.83	627.92
C	84+63.63	-0.01	627.90	628.01
D	84+73.63	0.00	627.97	628.09
E	84+83.63	-0.03	628.06	628.16
F	84+93.63	-0.09	628.16	628.23
G	85+03.63	-0.18	628.27	628.29
CL Brg. N. Abut.	85+09.16	-0.25	628.33	628.33
Bk. N. Abut.	85+11.06	-0.28	628.36	628.36

CENTERLINE & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+31.80	0.00	627.71	627.71
CL Brg. S. Abut.	84+33.69	0.00	627.72	627.72
A	84+43.66	0.00	627.77	627.82
B	84+53.64	0.00	627.83	627.91
C	84+63.63	0.00	627.90	628.01
D	84+73.63	0.00	627.97	628.09
E	84+83.63	0.00	628.06	628.16
F	84+93.65	0.00	628.15	628.23
G	85+03.68	0.00	628.26	628.29
CL Brg. N. Abut.	85+09.23	0.00	628.33	628.33
Bk. N. Abut.	85+11.14	0.00	628.35	628.35

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BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+33.29	5.87	627.52	627.52
CL Brg. S. Abut.	84+35.19	5.89	627.52	627.52
A	84+45.21	6.00	627.57	627.62
B	84+55.23	6.08	627.63	627.71
C	84+65.25	6.12	627.69	627.80
D	84+75.28	6.12	627.77	627.89
E	84+85.30	6.09	627.86	627.96
F	84+95.32	6.02	627.96	628.03
G	85+05.34	5.92	628.07	628.10
CL Brg. N. Abut.	85+10.89	5.85	628.14	628.14
Bk. N. Abut.	85+12.79	5.82	628.16	628.16

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+34.88	12.14	627.30	627.30
CL Brg. S. Abut.	84+36.79	12.16	627.31	627.31
A	84+46.83	12.27	627.36	627.41
B	84+56.88	12.34	627.42	627.50
C	84+66.92	12.37	627.49	627.60
D	84+76.97	12.37	627.57	627.68
E	84+87.01	12.33	627.66	627.76
F	84+97.06	12.26	627.76	627.83
G	85+07.10	12.15	627.88	627.90
CL Brg. N. Abut.	85+12.66	12.08	627.94	627.94
Bk. N. Abut.	85+14.57	12.05	627.97	627.97

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+36.49	18.41	627.09	627.09
CL Brg. S. Abut.	84+38.40	18.43	627.10	627.10
A	84+48.46	18.53	627.15	627.20
B	84+58.53	18.60	627.21	627.30
C	84+68.60	18.62	627.28	627.39
D	84+78.67	18.62	627.36	627.48
E	84+88.73	18.57	627.46	627.56
F	84+98.80	18.49	627.56	627.63
G	85+08.86	18.38	627.68	627.70
CL Brg. N. Abut.	85+14.44	18.30	627.75	627.75
Bk. N. Abut.	85+16.35	18.27	627.77	627.77

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	84+38.10	24.68	626.94	626.94
CL Brg. S. Abut.	84+40.02	24.70	626.95	626.95
A	84+50.10	24.80	627.00	627.05
B	84+60.19	24.85	627.06	627.15
C	84+70.28	24.87	627.14	627.25
D	84+80.37	24.86	627.22	627.34
E	84+90.46	24.81	627.32	627.42
F	85+00.55	24.73	627.42	627.49
G	85+10.64	24.60	627.54	627.57
CL Brg. N. Abut.	85+16.22	24.52	627.61	627.61
Bk. N. Abut.	85+18.14	24.49	627.64	627.64

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 047-6708

SHEET NO. 5 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	24
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

W. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	83+98.17	-20.00	628.24
A1	84+08.02	-20.08	628.30
A2	84+17.87	-20.19	628.35
N. End of Appr.	84+27.72	-20.34	628.41

W. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	84+00.08	-12.00	627.97
A1	84+09.98	-12.00	628.02
A2	84+19.89	-12.00	628.07
N. End of Appr.	84+29.80	-12.00	628.12

LOCAL TANGENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	84+02.78	-0.83	627.59
A1	84+12.77	-0.61	627.64
A2	84+22.77	-0.42	627.68
N. End of Appr.	84+32.76	-0.26	627.73

CENTERLINE & P.G.

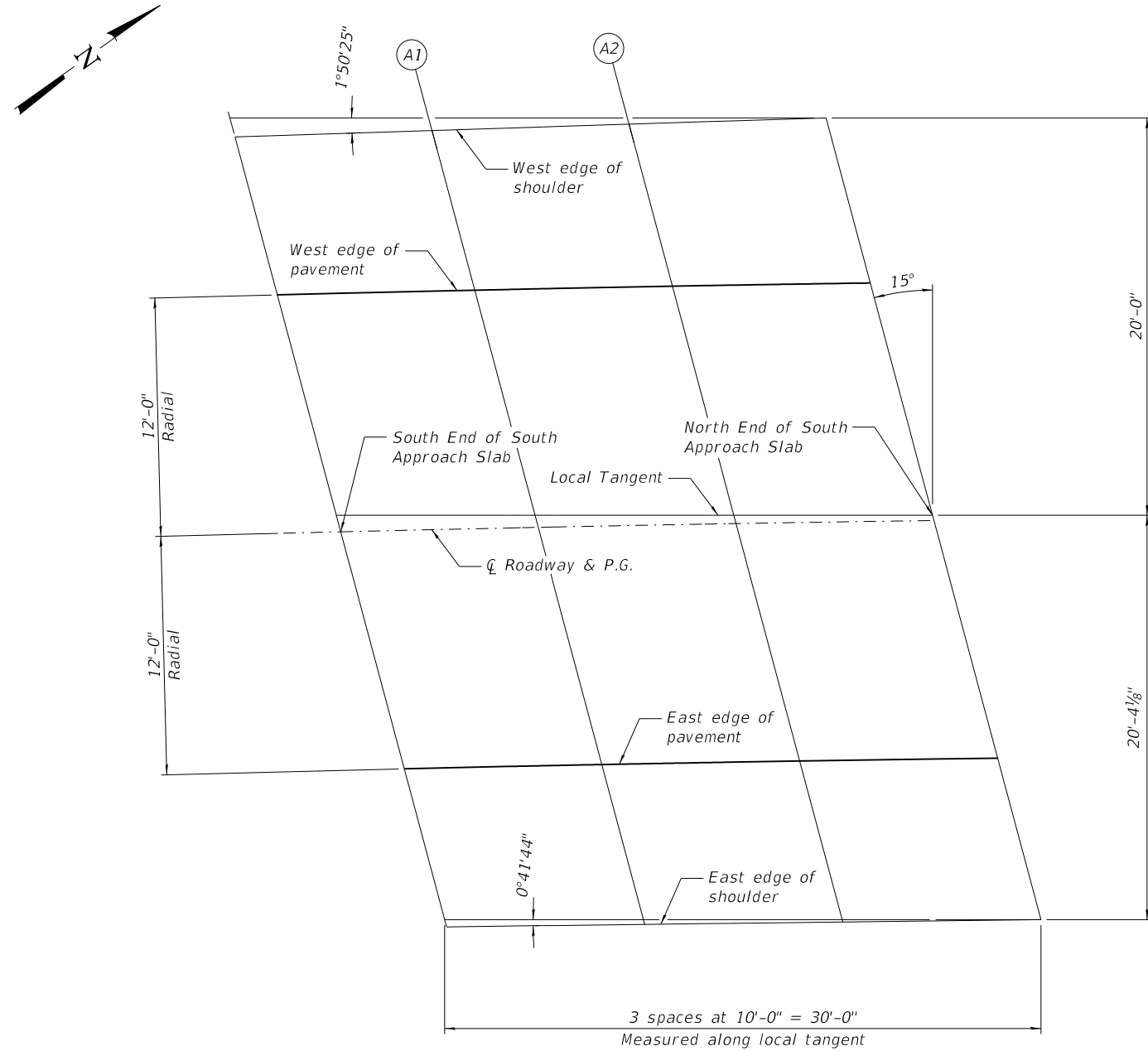
Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	84+02.98	0.00	627.56
A1	84+12.92	0.00	627.62
A2	84+22.87	0.00	627.67
N. End of Appr.	84+32.83	0.00	627.72

E. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	84+05.90	12.00	627.16
A1	84+15.88	12.00	627.21
A2	84+25.88	12.00	627.26
N. End of Appr.	84+35.89	12.00	627.31

E. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	84+07.86	20.00	626.89
A1	84+17.90	20.09	626.94
A2	84+27.94	20.14	626.99
N. End of Appr.	84+37.97	20.15	627.04



PLAN

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	CHECKED - AEU	REVISED -
PLOT SCALE =	DRAWN - FAS	REVISED -
PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 047-6708**

SHEET NO. 6 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	25
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

W. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	85+04.43	-20.19	628.98
A3	85+14.43	-20.09	629.09
A4	85+24.42	-20.03	629.22
N. End of Appr.	85+34.42	-20.00	629.35

W. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	85+06.72	-12.00	628.72
A3	85+16.72	-12.00	628.84
A4	85+26.73	-12.00	628.97
N. End of Appr.	85+36.74	-12.00	629.11

LOCAL TANGENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	85+10.03	-0.26	628.34
A3	85+20.02	-0.42	628.47
A4	85+30.02	-0.61	628.61
N. End of Appr.	85+40.02	-0.83	628.76

CENTERLINE & P.G.

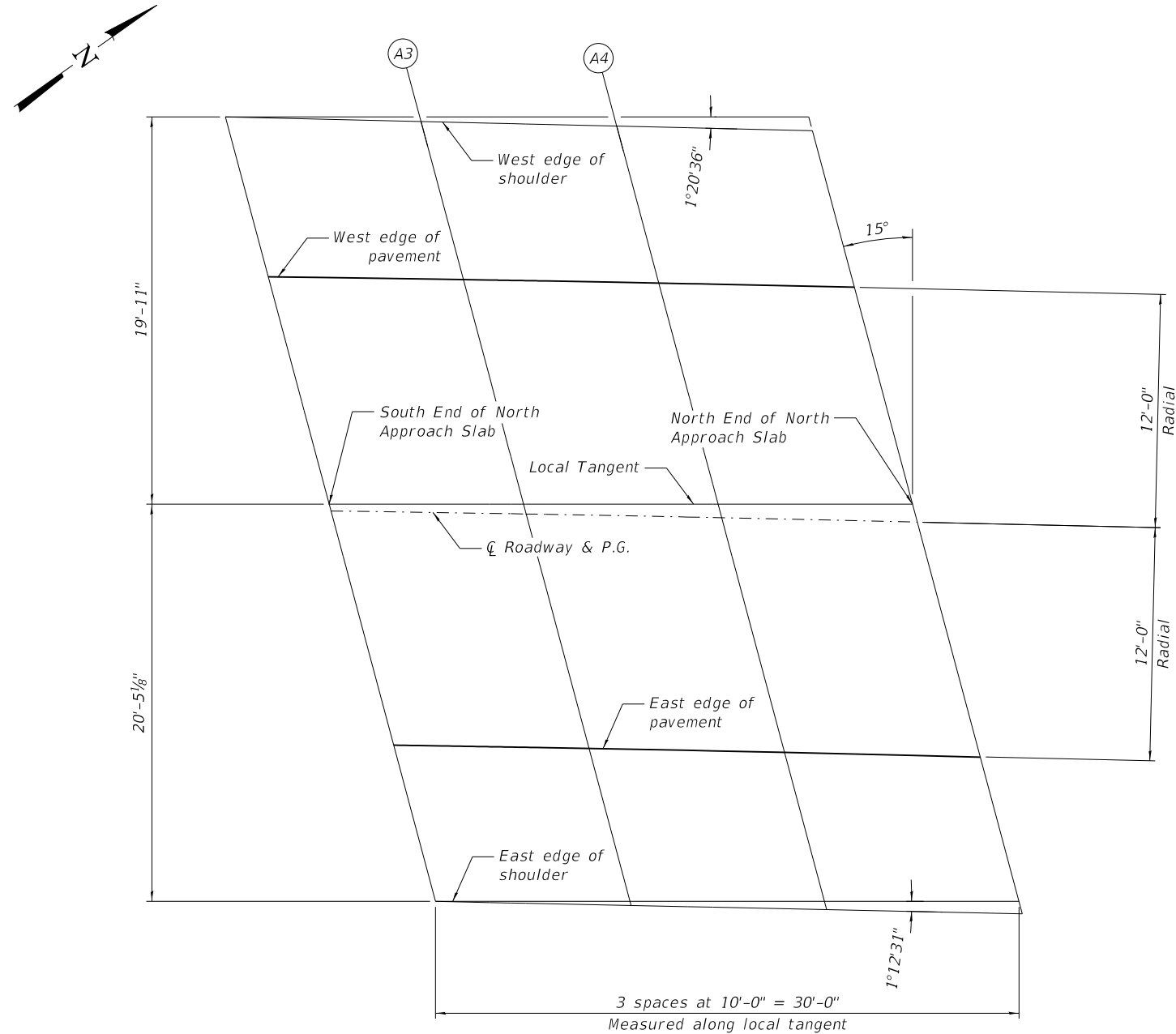
Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	85+10.10	0.00	628.34
A3	85+20.14	0.00	628.46
A4	85+30.20	0.00	628.59
N. End of Appr.	85+40.26	0.00	628.74

E. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	85+13.51	12.00	627.96
A3	85+23.60	12.00	628.08
A4	85+33.70	12.00	628.22
N. End of Appr.	85+43.81	12.00	628.37

E. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of Appr.	85+15.80	20.00	627.70
A3	85+25.93	20.04	627.83
A4	85+36.06	20.04	627.97
N. End of Appr.	85+46.19	20.00	628.13



PLAN

HRC PROJECT NO.: 17087.01
 HRC PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-007-1045.dgn
 PLOT DRIVER: il_dpf.dwg/ptcfg
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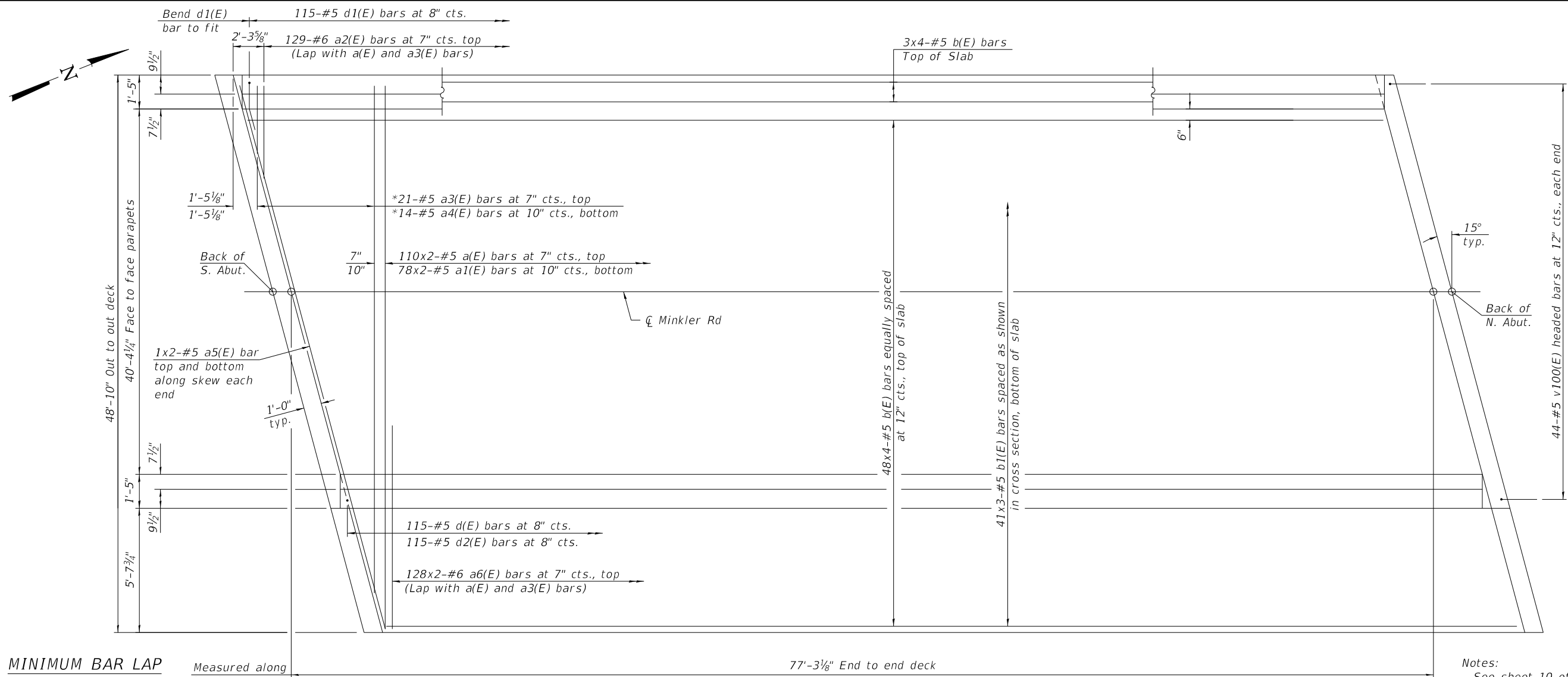
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PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 047-6708**

SHEET NO. 7 OF 24 SHEETS

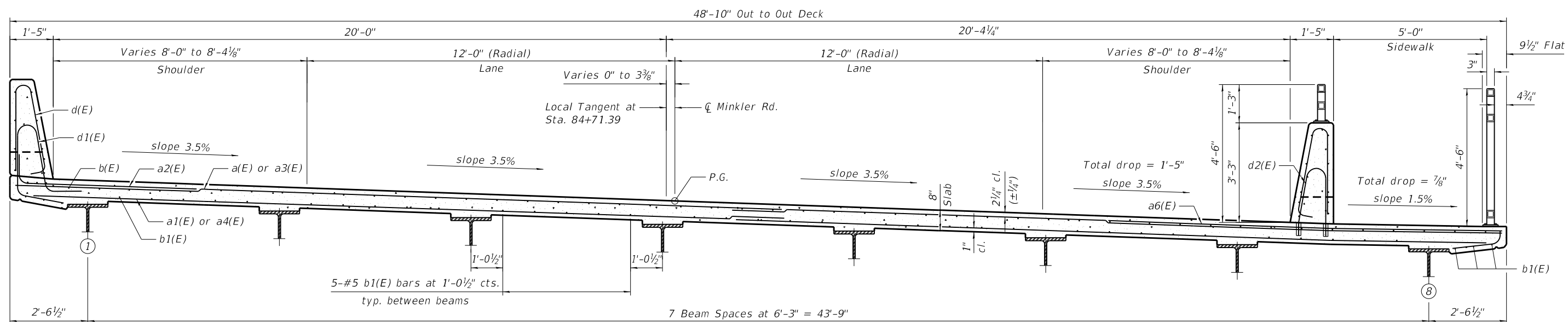
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	26
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP
#5 bar = 3'-6"
Measured along local tangent

* See Field Cutting Diagram on sheet 10 of 24.

Notes:
See sheet 10 of 24 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION
(Looking North)

HRC PROJECT NO.: 17087.01
 HRC PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-008-Superstructure.dgn
 PLOT DRIVER: IL_Pdf.dwg.plt.ctb
 PEN TABLE: plotlabel.tbl



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PLOT DATE = 9/24/2024	DRAWN - FAS	REVISED -
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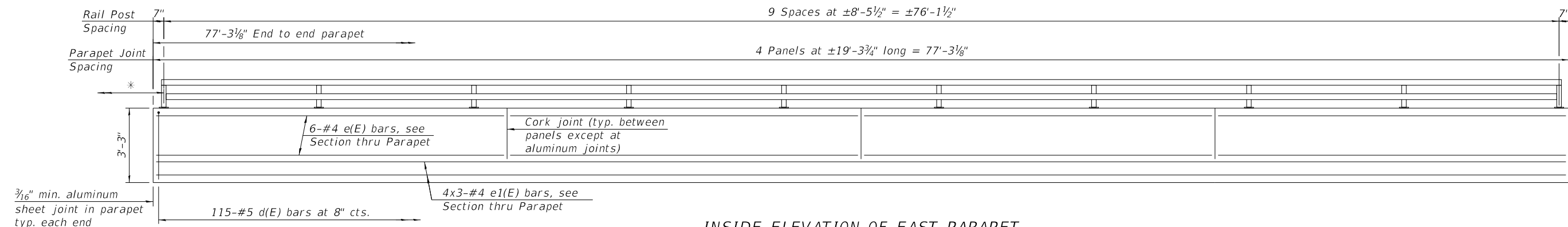
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 047-6708

SHEET NO. 8 OF 24 SHEETS

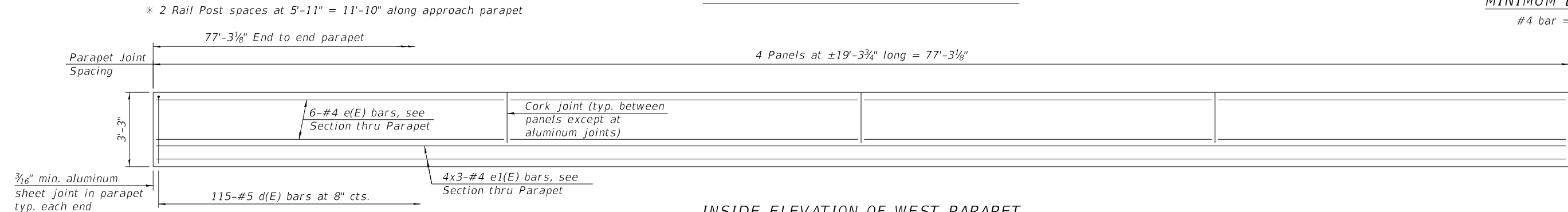
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	27
CONTRACT NO. 87868				

ILLINOIS FED. AID PROJECT

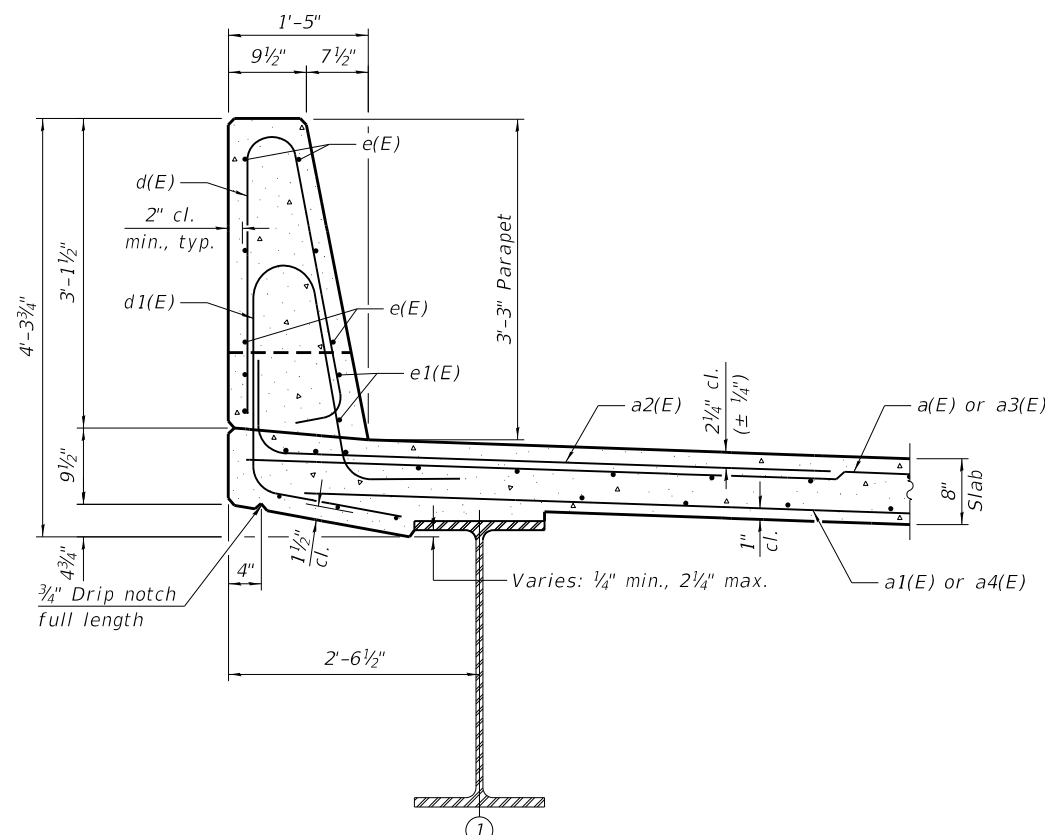


INSIDE ELEVATION OF EAST PARAPET

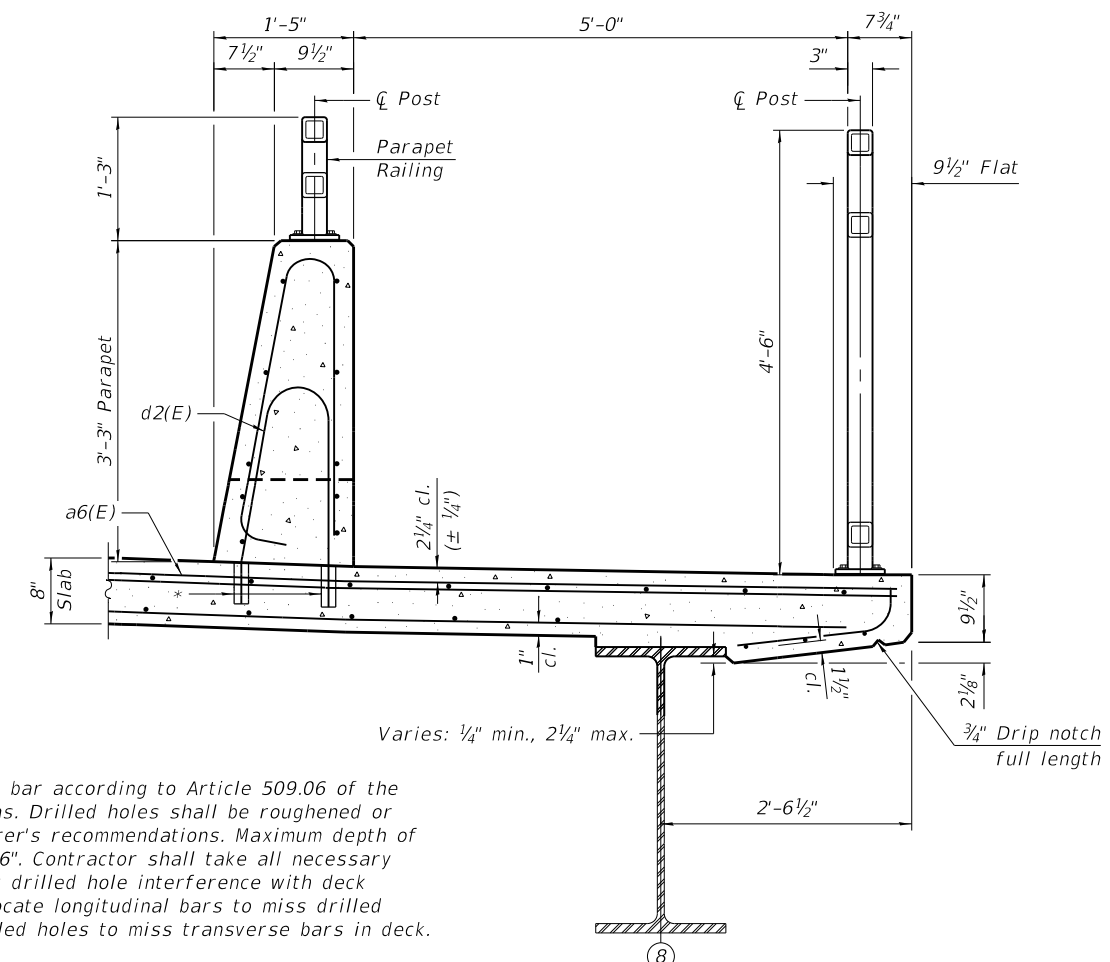
MINIMUM BAR LAP
#4 bar = 2'-5"



INSIDE ELEVATION OF WEST PARAPET



SECTION THRU WEST PARAPET
(Looking North)



SECTION THRU EAST PARAPET
(Looking North)

* Drill and set #5 d2(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Located drilled holes to miss transverse bars in deck.

HRC PROJECT NO.: 17087.01
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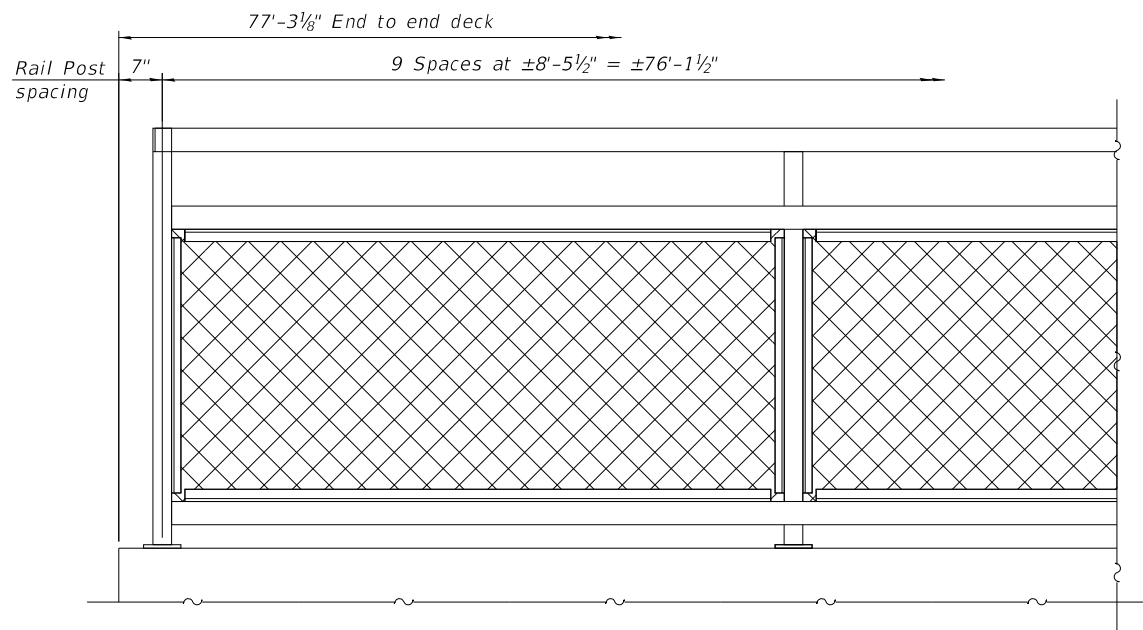


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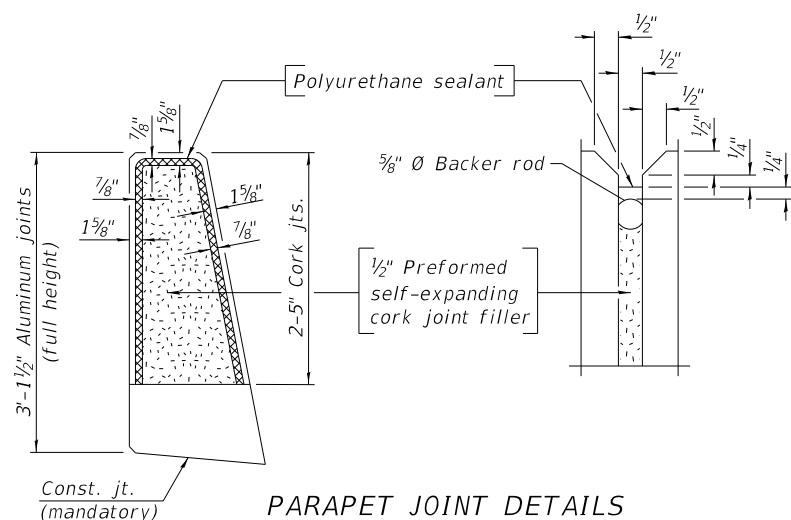
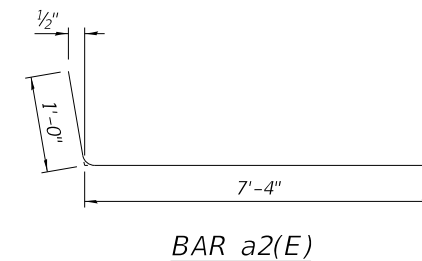
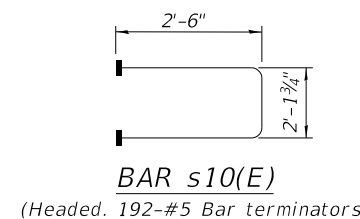
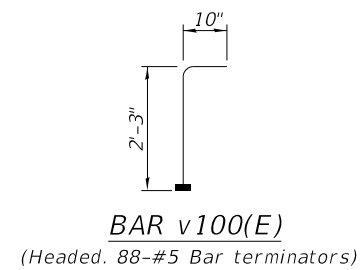
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 047-6708
SHEET NO. 9 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	28
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



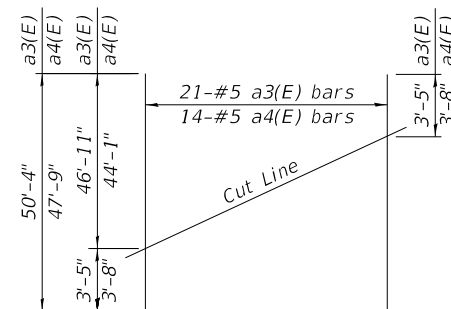
PARTIAL INSIDE ELEVATION OF BRIDGE FENCE RAILING



PARAPET JOINT DETAILS

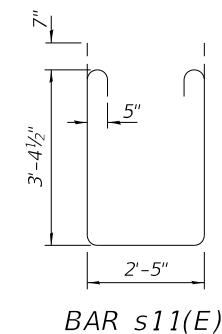
Notes:

The 3/16" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
 Bar terminators, paid for separately. See Total Bill of Material.

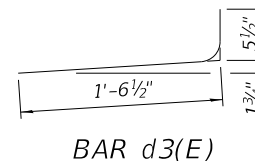


FIELD CUTTING DIAGRAM

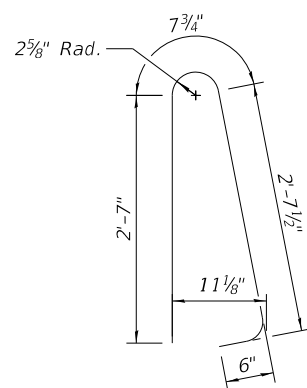
Order a3(E) and a4(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.



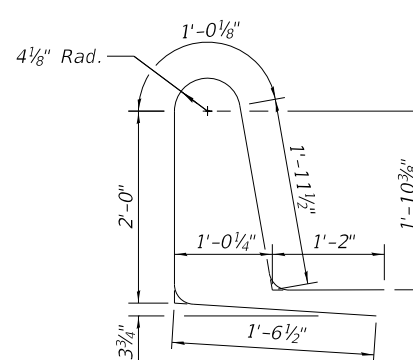
BAR s11(E)



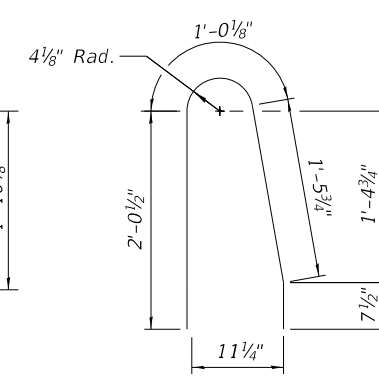
BAR d3(E)



BAR d(E)



BAR d1(E)



BAR d2(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	222	#5	26'- 0"	—
a1(E)	156	#5	25'- 2"	—
a2(E)	258	#6	8'- 4"	—
a3(E)	21	#5	50'- 4"	—
a4(E)	14	#5	47'- 9"	—
a5(E)	8	#5	26'- 11"	—
a6(E)	254	#6	13'- 0"	—
b(E)	204	#5	21'- 11"	—
b1(E)	123	#5	28'- 0"	—
d(E)	230	#5	6'- 5"	—
d1(E)	115	#5	7'- 8"	—
d2(E)	115	#5	5'- 2"	—
d3(E)	115	#5	2'- 0"	—
e(E)	48	#4	19'- 0"	—
e1(E)	24	#4	27'- 3"	—
m10(E)	16	#6	27'- 3"	—
m11(E)	42	#6	6'- 1"	—
m12(E)	12	#6	2'- 3"	—
s10(E)	96	#5	7'- 2"	—
s11(E)	96	#5	10'- 4"	—
v100(E)	88	#5	3'- 1"	—
Reinforcement Bars, Epoxy Coated		Pound	36,060	
Concrete Superstructure		Cu. Yd.	155.4	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

HRG PROJECT NO.: 17087.01
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 PEN TABLE: plotlabel.tbl



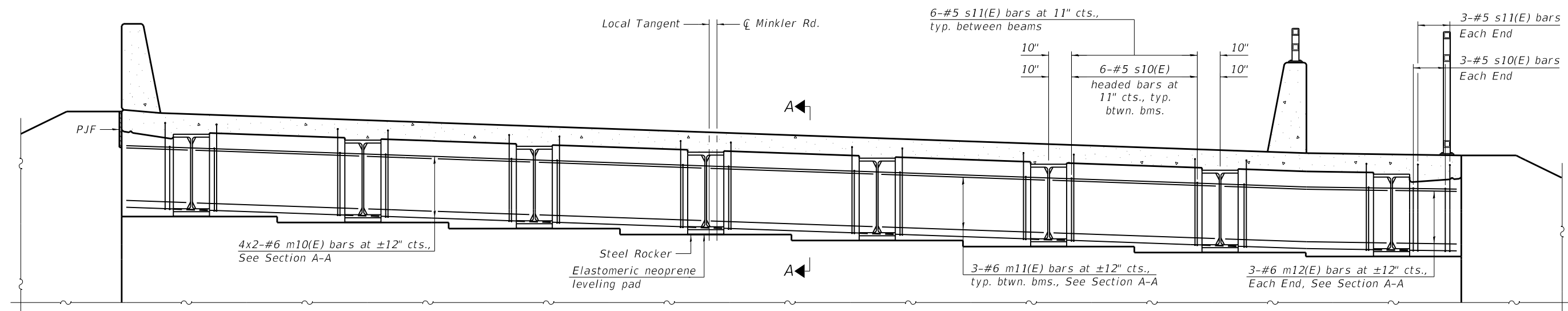
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PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 047-6708

SHEET NO. 10 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	29
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

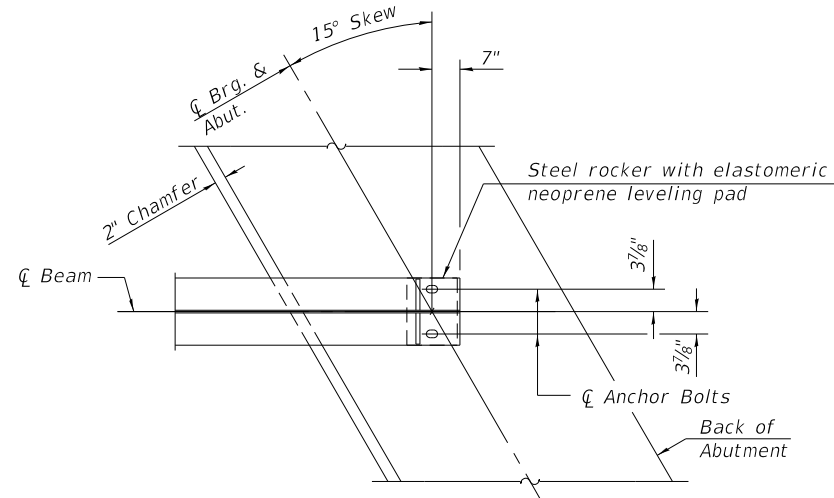


DIAPHRAGM AT ABUTMENT

(Looking North)
(North Abutment Shown, South Abutment Similar)

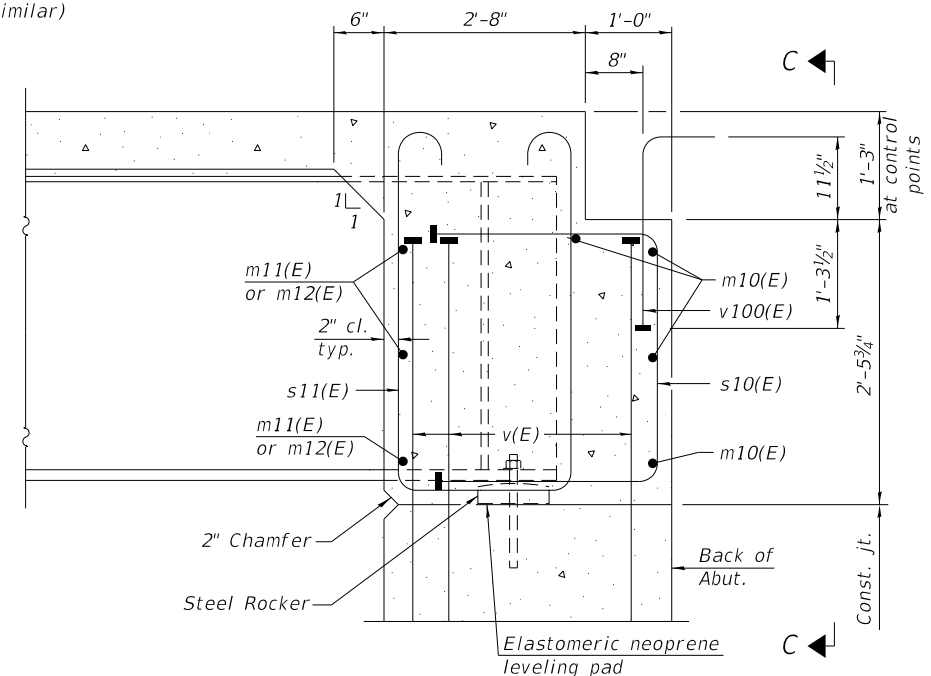
MINIMUM BAR LAP

#6 bar = 4'-3"



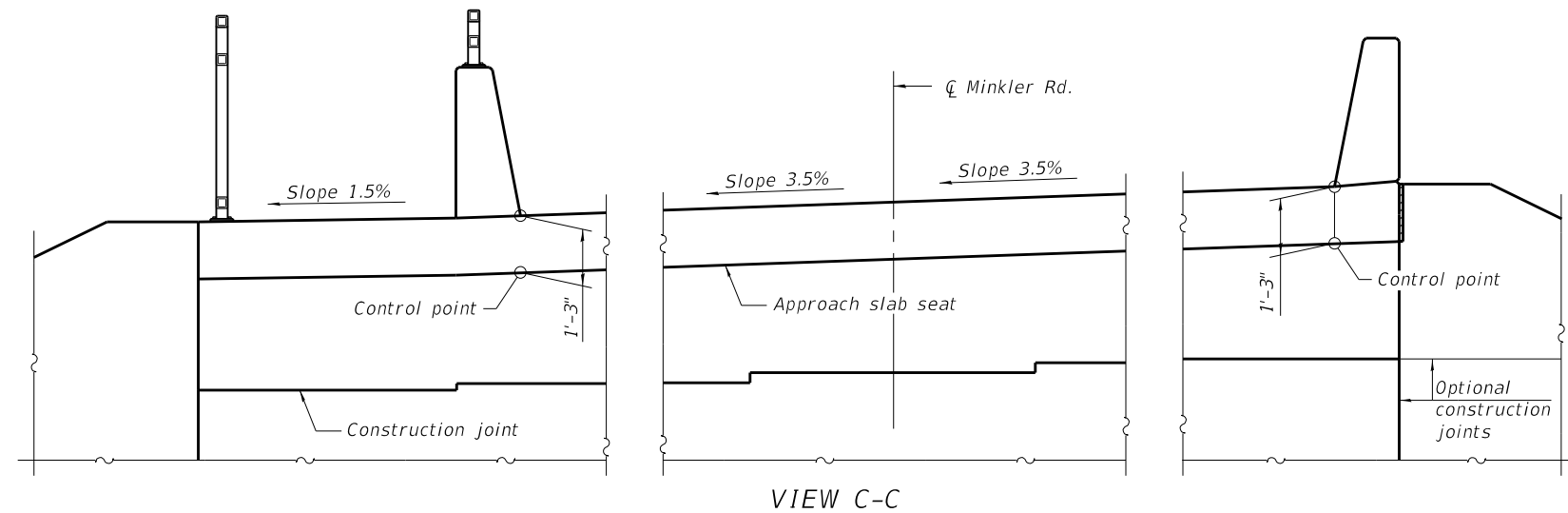
PLAN AT ABUTMENT

(Showing bottom flange of beam)



SECTION A-A

(at Rt. L's)



VIEW C-C

Notes:
See sheet 10 of 24 for superstructure details and Bill of Material.
See sheet 14 of 24 for P.J.F. details.
The s10(E) and s11(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams.
The approach slab seat shall have a constant slope determined from the control points shown.

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 0476708-xxxxx-01-Diaphragm.dwg
 PLOT DRIVER: IL_Pdf.dwg
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PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

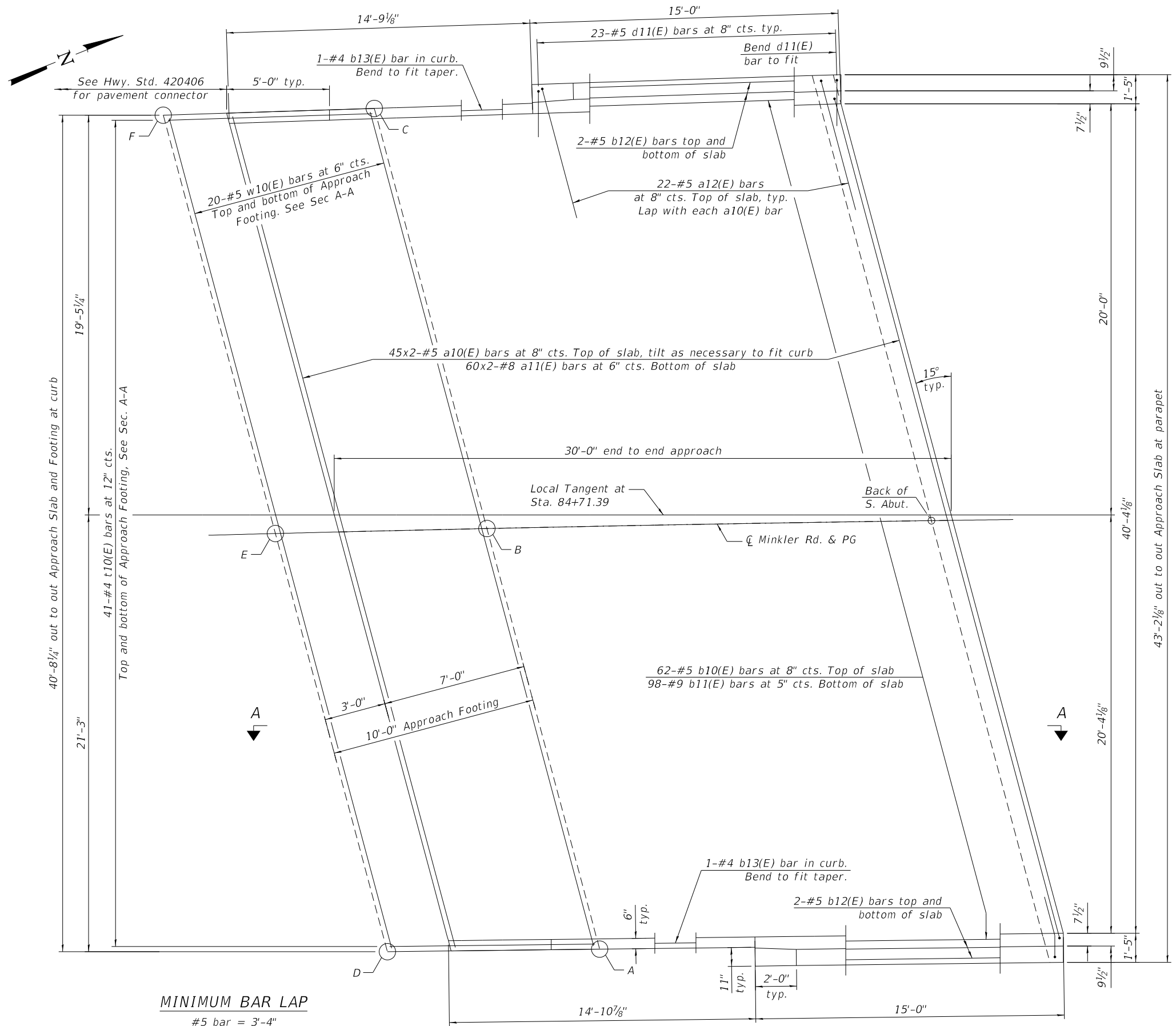
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS
STRUCTURE NO. 047-6708**

SHEET NO. 11 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	30
CONTRACT NO. 87868				

ILLINOIS FED. AID PROJECT



MINIMUM BAR LAP
 #5 bar = 3'-4"
 #8 bar = 4'-9"

SOUTH APPROACH SLAB PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

South Approach		
Point/ Location	Top	Bottom
A - NE Appr. Ftg.	625.66	624.83
B - N. CL Appr. Ftg.	626.36	625.52
C - NW Appr. Ftg.	627.05	626.22
D - SE Appr. Ftg.	625.61	624.77
E - S. CL Appr. Ftg.	626.30	625.47
F - SW Appr. Ftg.	627.00	626.16

HRC PROJECT NO.: 17087.01
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 FILE NAME: 0476708-xxxx-02-Br-Appr-Slab.dgn
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PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 047-6708**

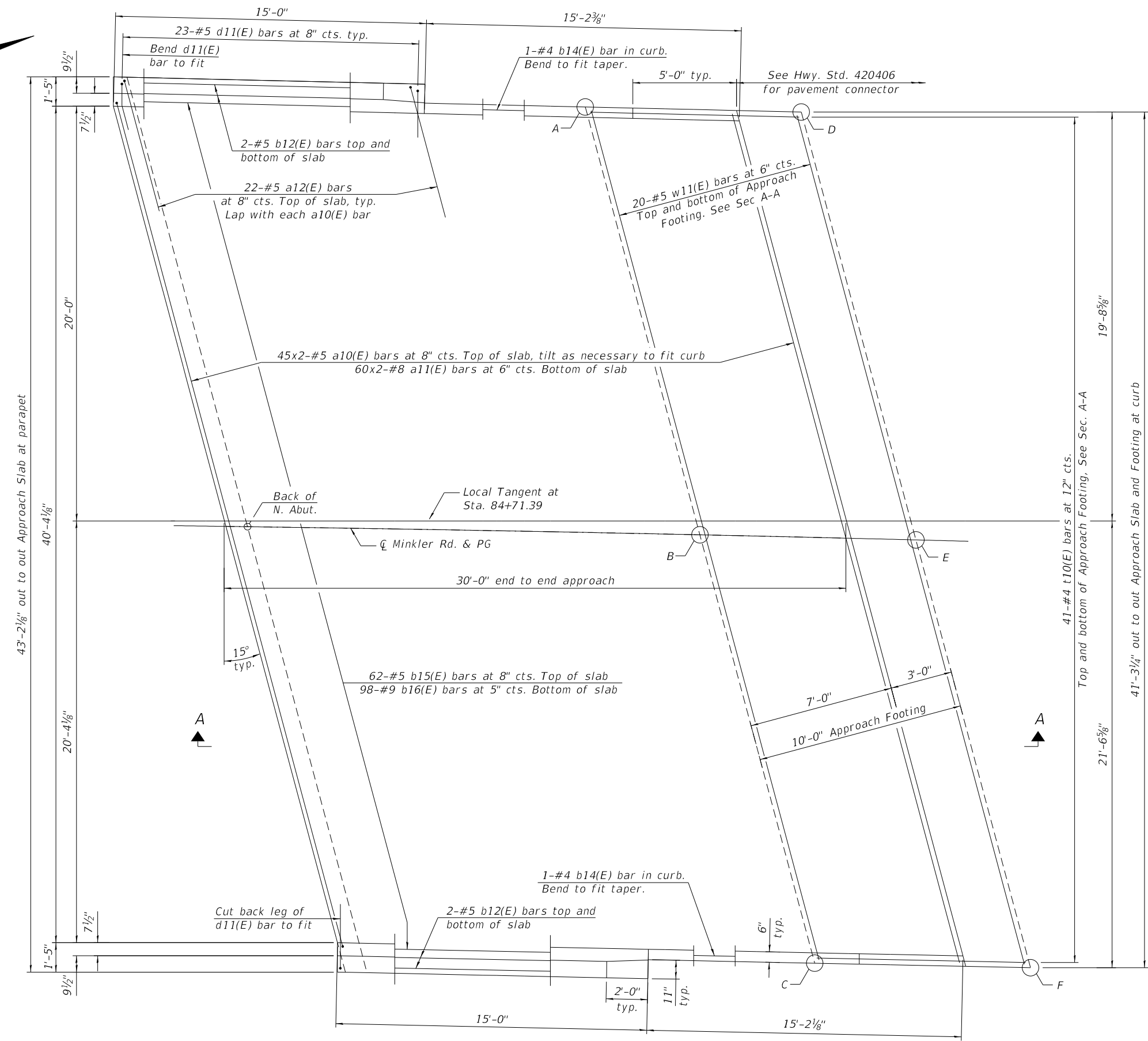
(Sheet 1 of 3)

SHEET NO. 12 OF 24 SHEETS

F.A.U. RTE. 3792	SECTION 21-00053-00-BR	COUNTY KENDALL	TOTAL SHEETS 62	SHEET NO. 31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 87868	

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

North Approach		
Point/ Location	Top	Bottom
A - SW Appr. Ftg.	628.02	627.18
B - S. CL Appr. Ftg.	627.38	626.55
C - SE Appr. Ftg.	626.75	625.92
D - NW Appr. Ftg.	628.16	627.33
E - N. CL Appr. Ftg.	627.53	626.70
F - NE Appr. Ftg.	626.91	626.08



MINIMUM BAR LAP

#5 bar = 3'-4"
#8 bar = 4'-9"

NORTH APPROACH SLAB PLAN

(Sheet 2 of 3)

HRG PROJECT NO.: 17087.01
HRG PROJ. CONTACT:
FILE NAME: 0476708-xxxx-03-Br-Appr-Slab2.dgn
PLOT DRIVER: IL_Pdf.dwg, p1.ctb
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

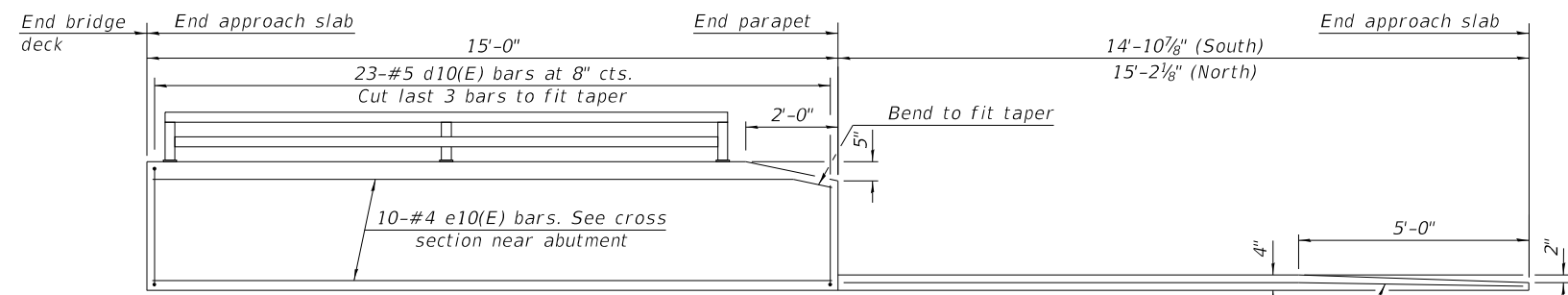
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 047-6708

SHEET NO. 13 OF 24 SHEETS

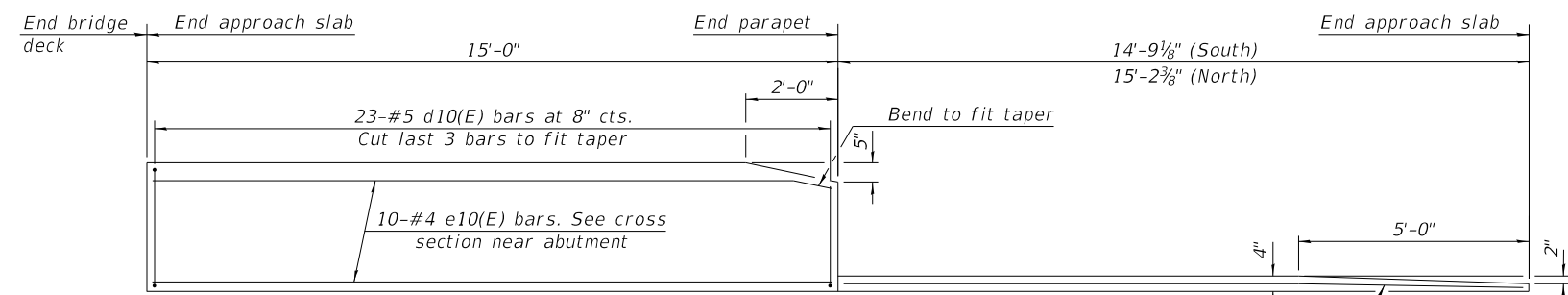
F.A.U. RTE. 3792	SECTION 21-00053-00-BR	COUNTY KENDALL	TOTAL SHEETS 62	SHEET NO. 32
CONTRACT NO. 87868				

ILLINOIS FED. AID PROJECT

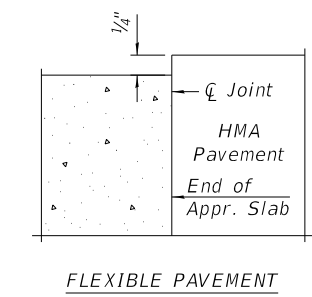
Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Omax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 24.



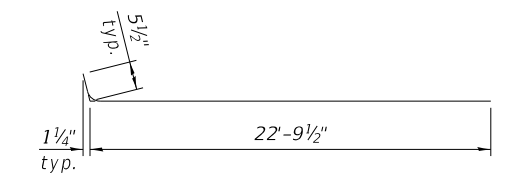
INSIDE ELEVATION OF EAST PARAPET AND CURB
 (See Sheet 10 of 24 for railing post spacing)



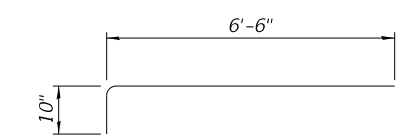
INSIDE ELEVATION OF WEST PARAPET AND CURB



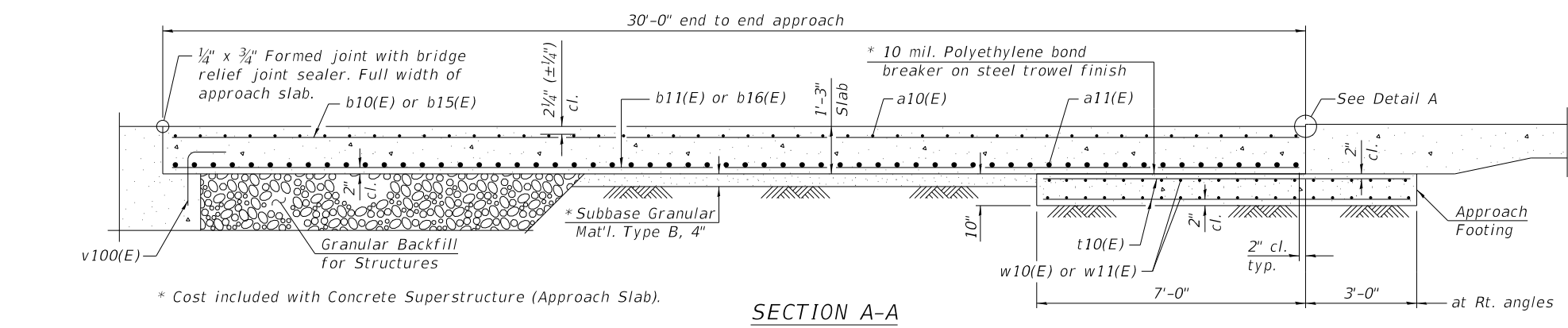
**FLEXIBLE PAVEMENT
 DETAIL A**



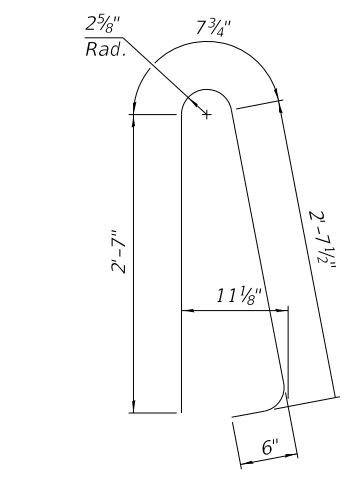
BAR a10(E)



BAR a12(E)



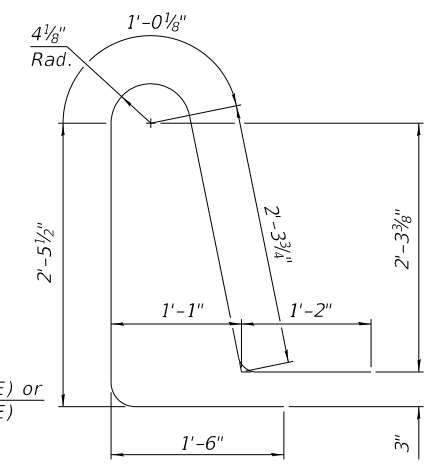
SECTION A-A



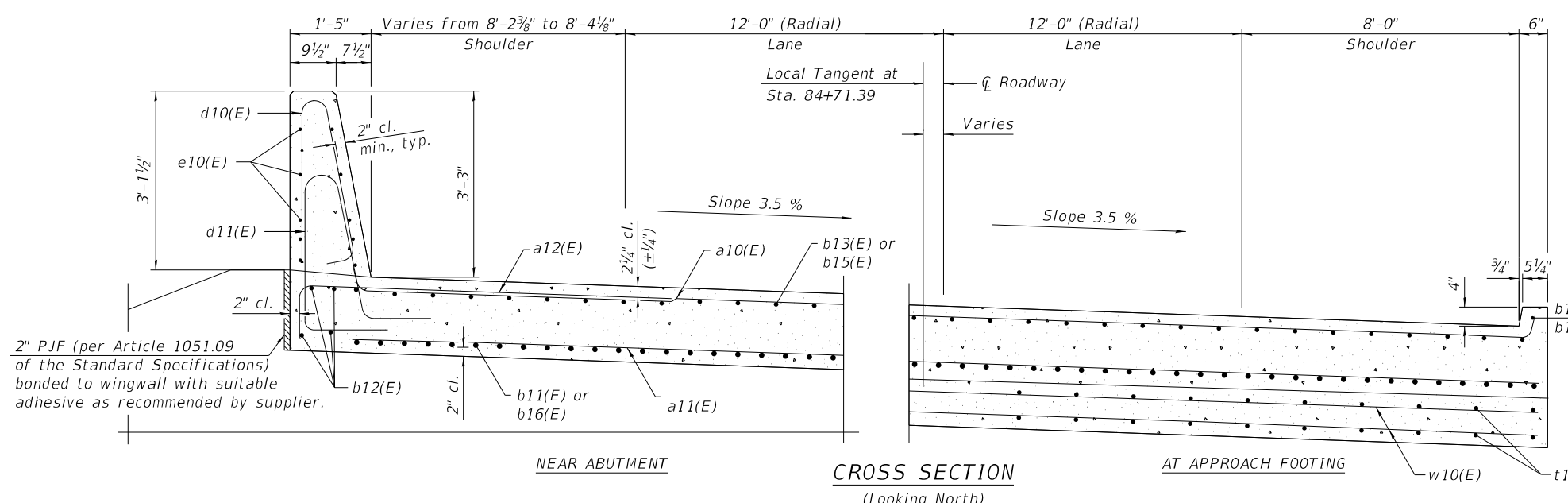
BAR d10(E)

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	180	#5	23'-3"	—
a11(E)	240	#8	23'-7"	—
a12(E)	88	#5	7'-4"	—
b10(E)	62	#5	29'-5"	—
b11(E)	98	#9	29'-5"	—
b12(E)	16	#5	14'-8"	—
b13(E)	2	#4	14'-6"	—
b14(E)	2	#4	14'-9"	—
b15(E)	62	#5	29'-10"	—
b16(E)	98	#9	29'-10"	—
d10(E)	92	#5	6'-5"	⤴
d11(E)	92	#5	8'-6"	⤴
e10(E)	40	#4	14'-8"	—
t10(E)	82	#4	10'-0"	—
w10(E)	40	#5	41'-9"	—
w11(E)	40	#5	42'-5"	—
Concrete Superstructure		Cu. Yd.	7.8	
Concrete Superstructure (Approach Slab)		Cu. Yd.	117.3	
Concrete Structures		Cu. Yd.	26.2	
Reinforcement Bars, Epoxy Coated		Pound	48,120	



BAR d11(E)



**CROSS SECTION
 (Looking North)**

(Sheet 3 of 3)

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-04-Br-Appr-Slab.dgn
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 PEN TABLE: plotlabel.tbl



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	CHECKED - AEU	REVISED -
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PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

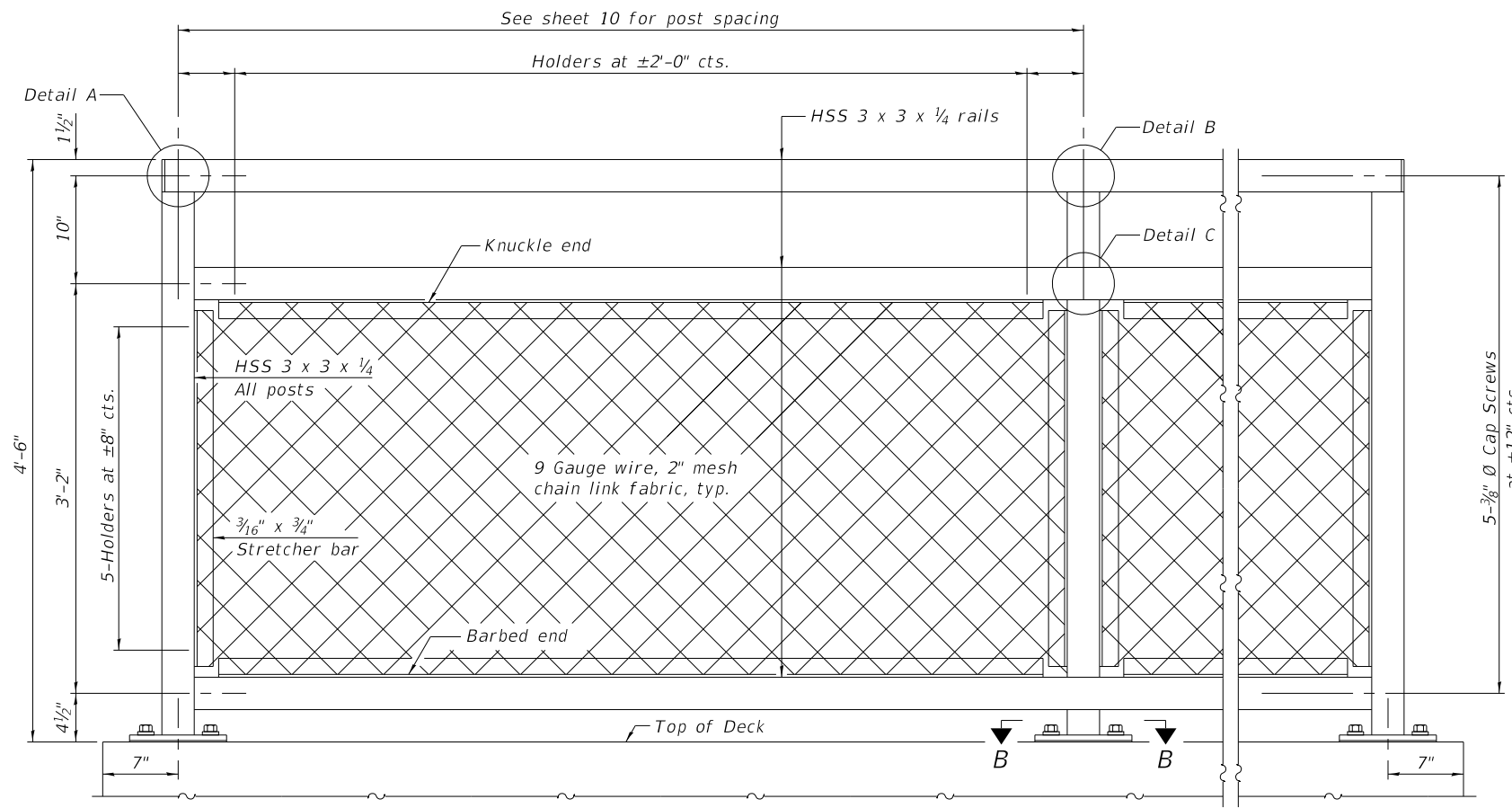
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 047-6708**

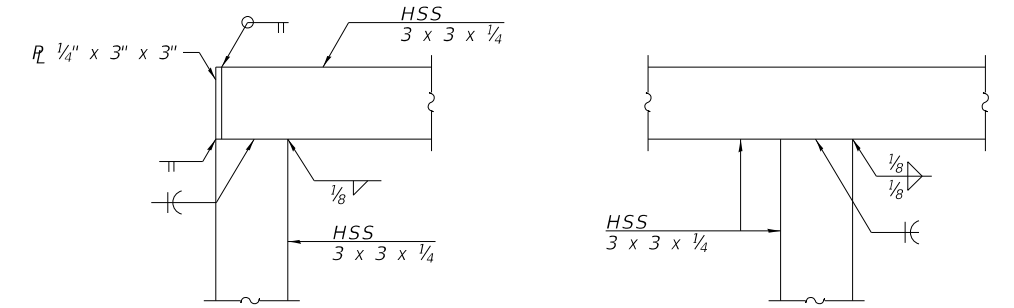
SHEET NO. 14 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	33
				CONTRACT NO. 87868

ILLINOIS FED. AID PROJECT

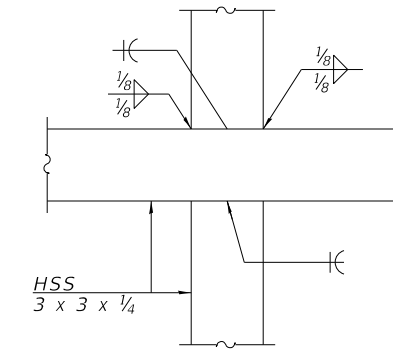


ELEVATION BICYCLE RAILING
 (Inside face)

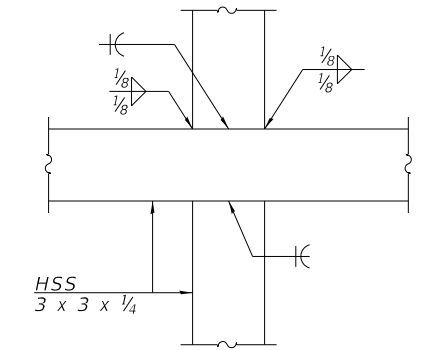


DETAIL A

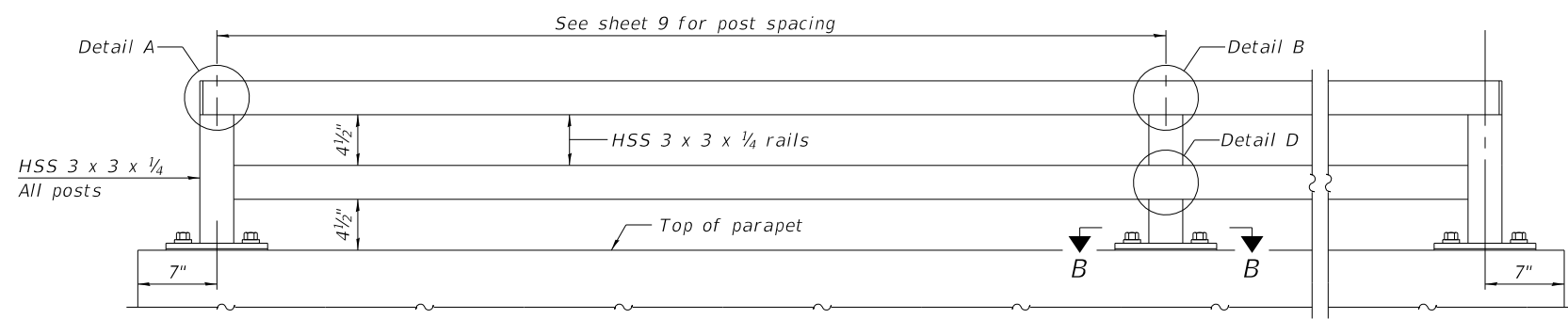
DETAIL B



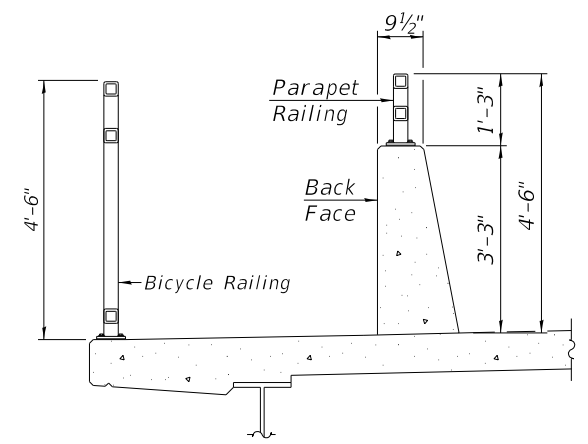
DETAIL C



DETAIL D



ELEVATION PARAPET RAILING
 (Inside face)



SECTION THRU DECK

RAILING CRITERIA

MASH 2016 Test Level	4
Parapet Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

HRC PROJECT NO.: 17087.01
 HRC PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-05-RailingDisl.dgn
 PLOT DRIVER: IL_Pdf.dwg.plt.ctb
 PEN TABLE: plotlabel.tbl



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PLOT DATE = 9/24/2024	DRAWN = FAS	REVISED =
	CHECKED = AEU	REVISED =

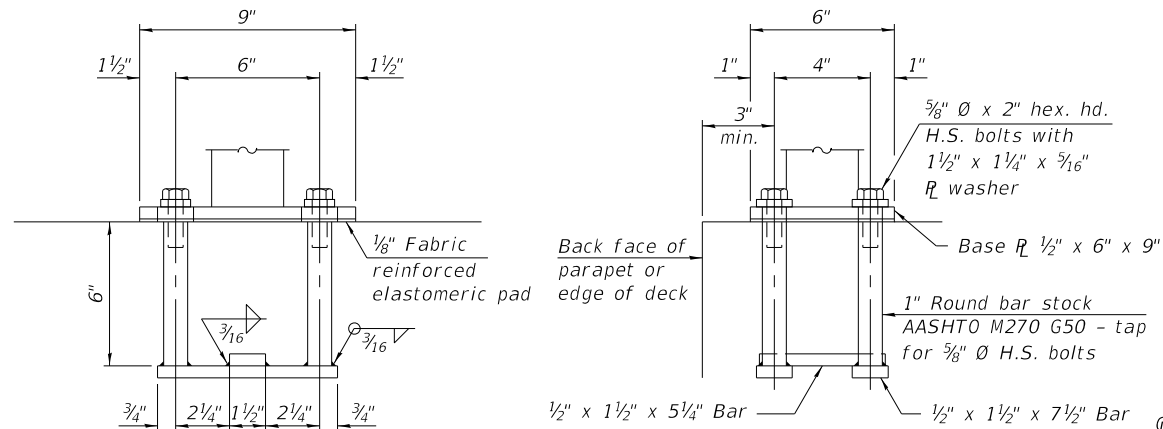
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING AND PARAPET RAILING
STRUCTURE NO. 047-6708

SHEET NO. 15 OF 24 SHEETS

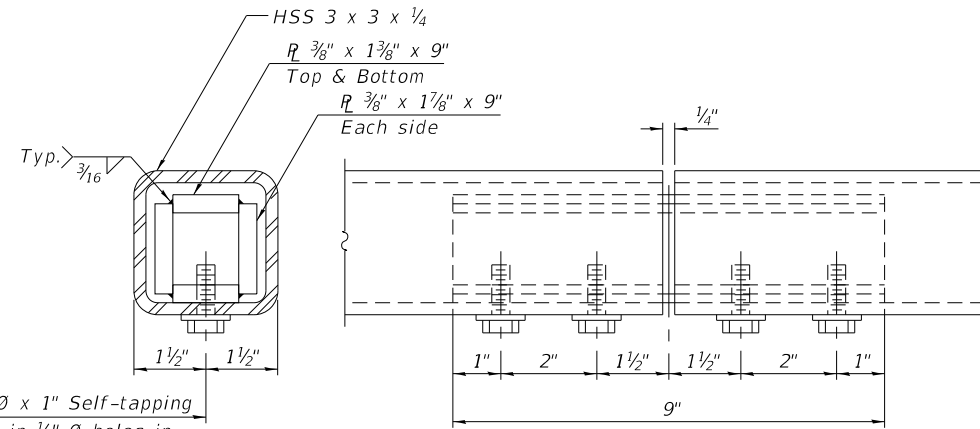
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	34
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

(Sheet 1 of 2)



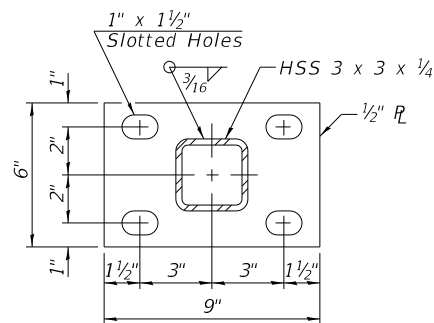
ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



MATERIAL SPLICE

Typ. 3/16"
 3/8" Ø x 1" Self-tapping HHCS in 1/2" Ø holes in HSS tubing and pilot holes per manufacturer in plates



SECTION B-B

Notes:
 Place reinforcement bars to miss anchor rod locations. CVN testing is not required for the HSS tubing used in the Bicycle Railing.
 All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 All HSS tubing used for the Parapet Railing shall be ASTM A500 grade C.
 All base plates used for the Parapet Railing shall be AASHTO M270 grade 50.
 All heavy hex nuts shall be according to ASTM A 563 grade DH.
 All fully threaded anchor rods shall be ASTM F1554 grade 105.
 The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.
 Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
 The chain link fabric shall be black coated vinyl and conform to the requirements of Article 1006.27(a)(1)d of the Standard Specifications.
 All posts, railings, splices, anchor devices and bent plates shall be powder coated black.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	77
Parapet Railing	Foot	103

(Sheet 2 of 2)

HRC PROJECT NO.: 17087.01
 HRC PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-06-railings2.dgn
 PLOT DRIVER: il_dcf.dwg.plt
 PEN TABLE: plotlabel.tbl



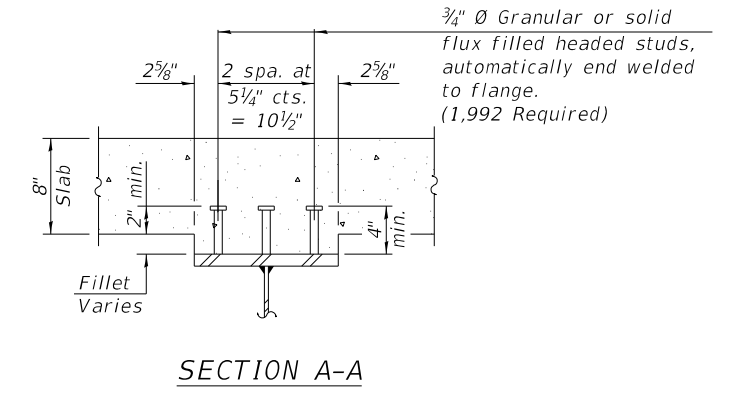
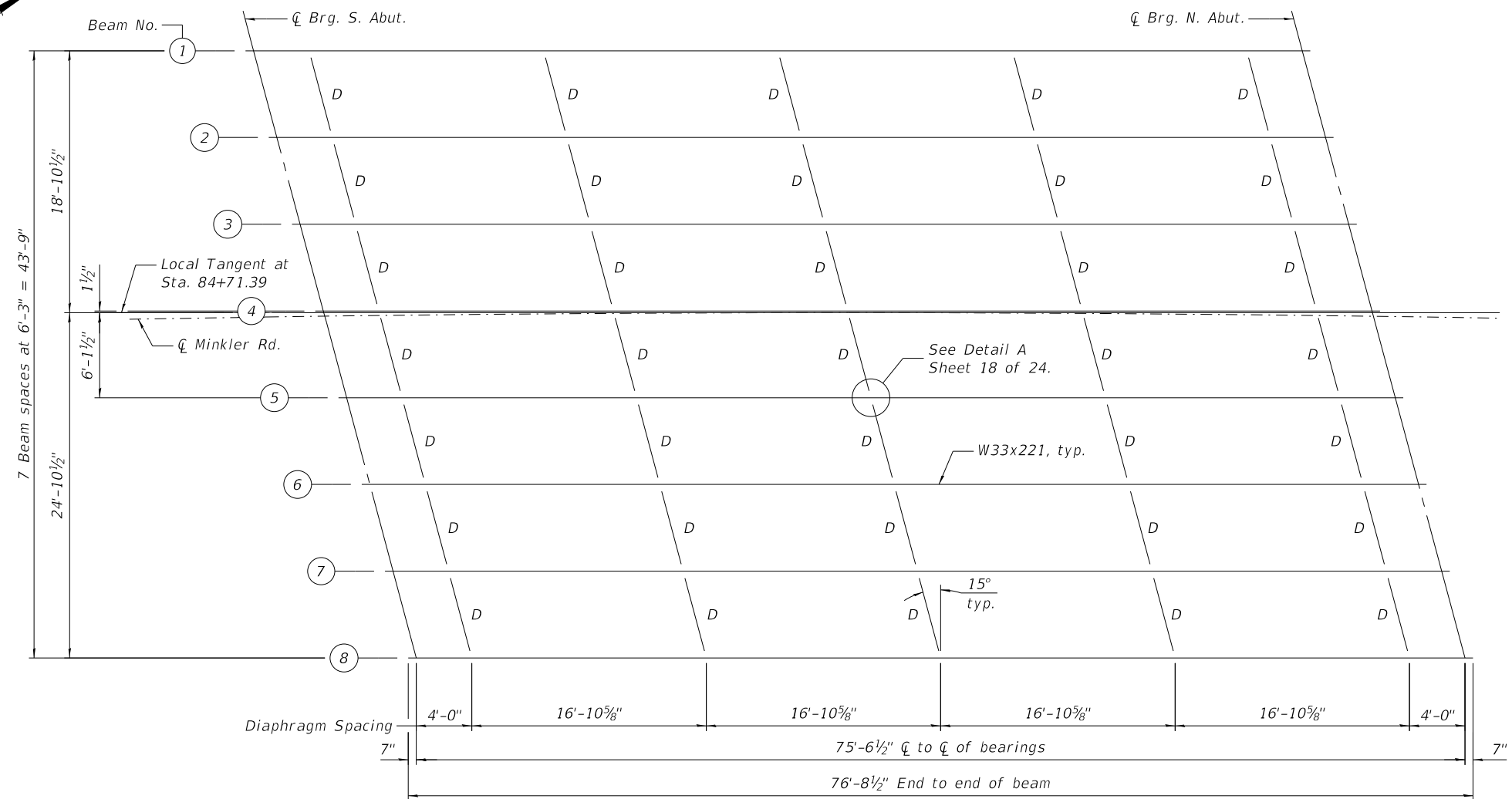
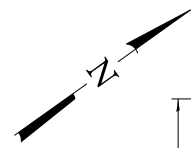
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PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING AND PARAPET RAILING
STRUCTURE NO. 047-6708**

SHEET NO. 16 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	35
				CONTRACT NO. 87868
ILLINOIS FED. AID PROJECT				



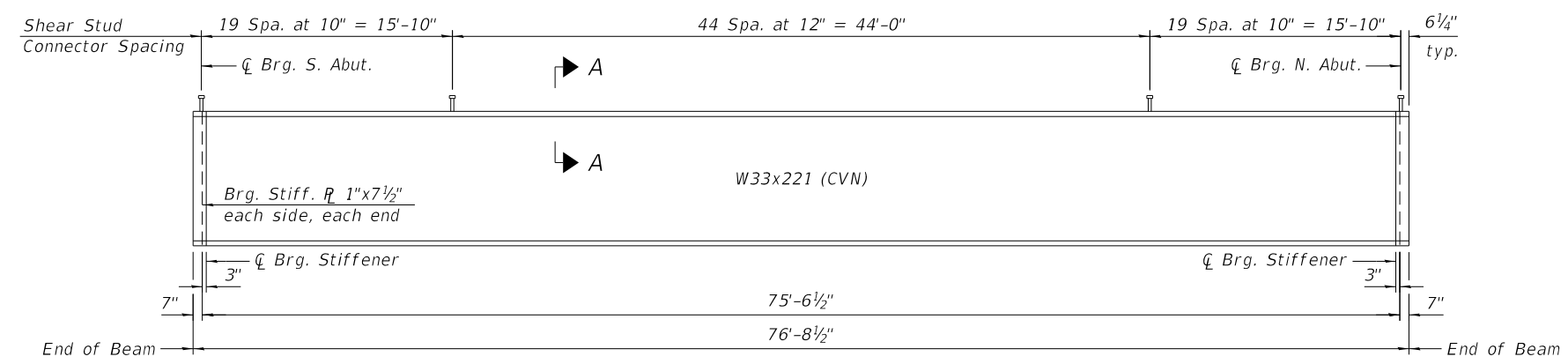
*TOP OF BEAM ELEVATIONS (FOR INFORMATION ONLY)

Location	☐ Brg. S. Abut.	☐ Brg. N. Abut.
Beam 1	627.64	628.20
Beam 2	627.43	628.00
Beam 3	627.22	627.80
Beam 4	627.00	627.61
Beam 5	626.79	627.41
Beam 6	626.58	627.21
Beam 7	626.37	627.02
Beam 8	626.23	626.89

PLAN

Notes:
1. Load carrying components designated "CVN" shall conform to the Charpy-V Notch Impact Energy Requirements, Zone 2.

* For fabrication use only



BEAM ELEVATION

HRC PROJECT NO.: 17087.01
 HRC PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-01-Framing.dgn
 PLOT DRIVER: IL_Pdf.dwg
 PEN TABLE: plotlabel.tbl

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 ■ In-House Professional Design Firm
 #184-001322

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	CHECKED = AEU	REVISED =
PLOT SCALE =	DRAWN = FAS	REVISED =
PLOT DATE = 9/24/2024	CHECKED = AEU	REVISED =

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
 STRUCTURE NO. 047-6708

SHEET NO. 17 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	36
CONTRACT NO. 87868				

ILLINOIS FED. AID PROJECT

INTERIOR GIRDER MOMENT TABLE		
		0.5 Span 1
I_s	(in ⁴)	12900
$I_c(n)$	(in ⁴)	29341
$I_c(3n)$	(in ⁴)	21542
$I_c(cr)$	(in ⁴)	—
S_s	(in ³)	759
$S_c(n)$	(in ³)	1024
$S_c(3n)$	(in ³)	930
$S_c(cr)$	(in ³)	—
S_x	(in ³)	759
DC1	(k/')	0.904
M _{DC1}	(k)	645
DC2	(k/')	0.141
M _{DC2}	(k)	101
DW	(k/')	0.250
M _{DW}	(k)	178
LLDF		0.557
M _{ℓ + IM}	(k)	1054
f_t (Strength I)	(ksi)	0
$M_u + 1/3 f_t S_x$	(k)	3044
$\phi_r M_n$	(k)	4896
f_s DC1	(ksi)	10.2
f_s DC2	(ksi)	1.3
f_s DW	(ksi)	2.3
f_s (ℓ + IM)	(ksi)	12.3
$f_s + f_t/2$ (Service II)	(ksi)	29.8
Service II Resistance (ksi)		47.5
$f_s + f_t/3$ (Strength I)	(ksi)	—
$\phi_r F_n$	(ksi)	—
V _f	(k)	26.8

	GIRDER REACTION TABLE	
	Abutment	
	Interior	Exterior
LLDF	0.725	
OCF	1.05	
R _{DC1}	(k)	35.0
R _{DC2}	(k)	5.3
R _{DW}	(k)	9.4
R _ℓ	(k)	63.3
R _{IM}	(k)	15.1
R _{Total} (Strength I)(Impact)	(k)	201.7
R _{Total} (Strength I)(No Impact)	(k)	175.3

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).

DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
M_{ℓ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u : Strength I load combination of factored design moments (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}
 f_t : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).
 $\phi_r M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.

f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{ℓ + IM} / S_{c(n)} or M_{ℓ + IM} / S_{c(cr)} as applicable.

$f_s + f_t/2$ (Service II): Sum of stresses as computed below (ksi).
 f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (ℓ + IM) + $f_t/2$

Service II Resistance: Composite (0.95R_nF_{yf}) or noncomposite (0.80R_nF_{yf}) stress capacity according to Article 6.10.4.2 (ksi).

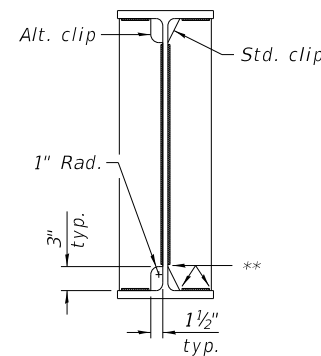
$f_s + f_t/3$ (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (ℓ + IM) + $f_t/3$

$\phi_r F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
V_f: Maximum factored shear range in span computed according to Article 6.10.10.

OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.

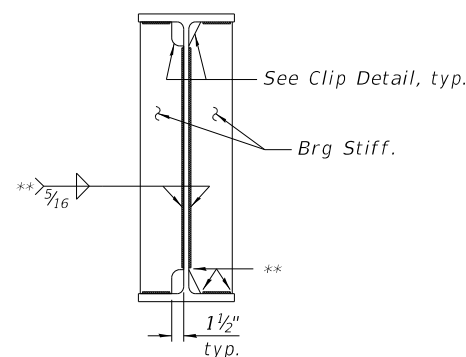
R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
R_{DW}: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
R_ℓ: Un-factored live load reaction (kip).
R_{IM}: Un-factored dynamic load allowance (impact) (kip).
R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_ℓ + R_{IM})
R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_ℓ)

Note:
M_ℓ and R_ℓ include the effects of centrifugal force and superelevation.

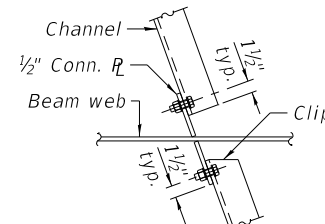


WELD LIMITS AND CLIP DETAILS

** Stop welds 1/4" (±1/8") from edges as shown, typical.

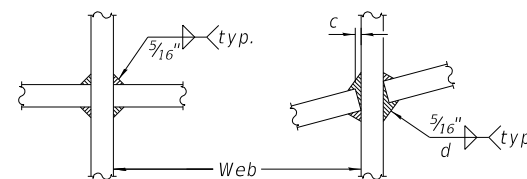


SECTION AT ABUTMENT



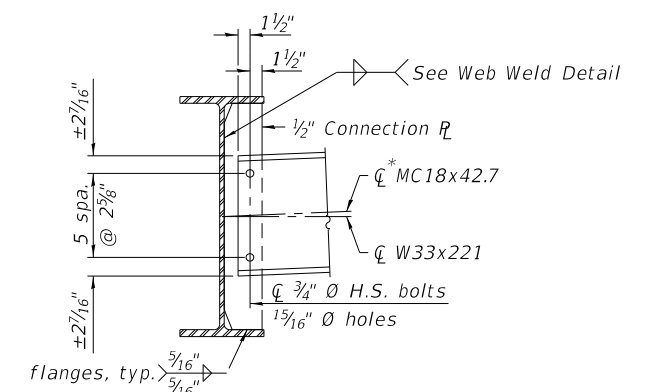
DETAIL A

Note:
Clip channel as necessary for ease of installation.



WELD WELD DETAIL

d = 5/16" + c



INTERIOR DIAPHRAGM D
(Exterior beam shown, interior beam similar)
(Stop welds 1/4" (±1/8") from edges, typ.)
(35 required)

* Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.

Notes:
1. H.S. bolts shall be ASTM F3125, Grade A325, Type 1.
2. Two hardened washers required for each set of oversized holes.

HRG PROJECT NO.: 17087.01
HRG PROJ. CONTACT:
FILE NAME: 0476708-xxxx-08-StrSteel.dgn
PLOT DRIVER: IL_Pdf.dwg
PEN TABLE: plotlabel.tbl

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Professional Design Firm
#184-001322

USER NAME	DESIGNED	REVISION
amiller	FAS	-
	AEU	-
	FAS	-
	AEU	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 047-6708

SHEET NO. 18 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	37
			CONTRACT NO. 87868	

ILLINOIS FED. AID PROJECT

HRC PROJECT NO.: 17087.01
 HRC PROJ. CONTACT:
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	CHECKED - AEU	REVISED -
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PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

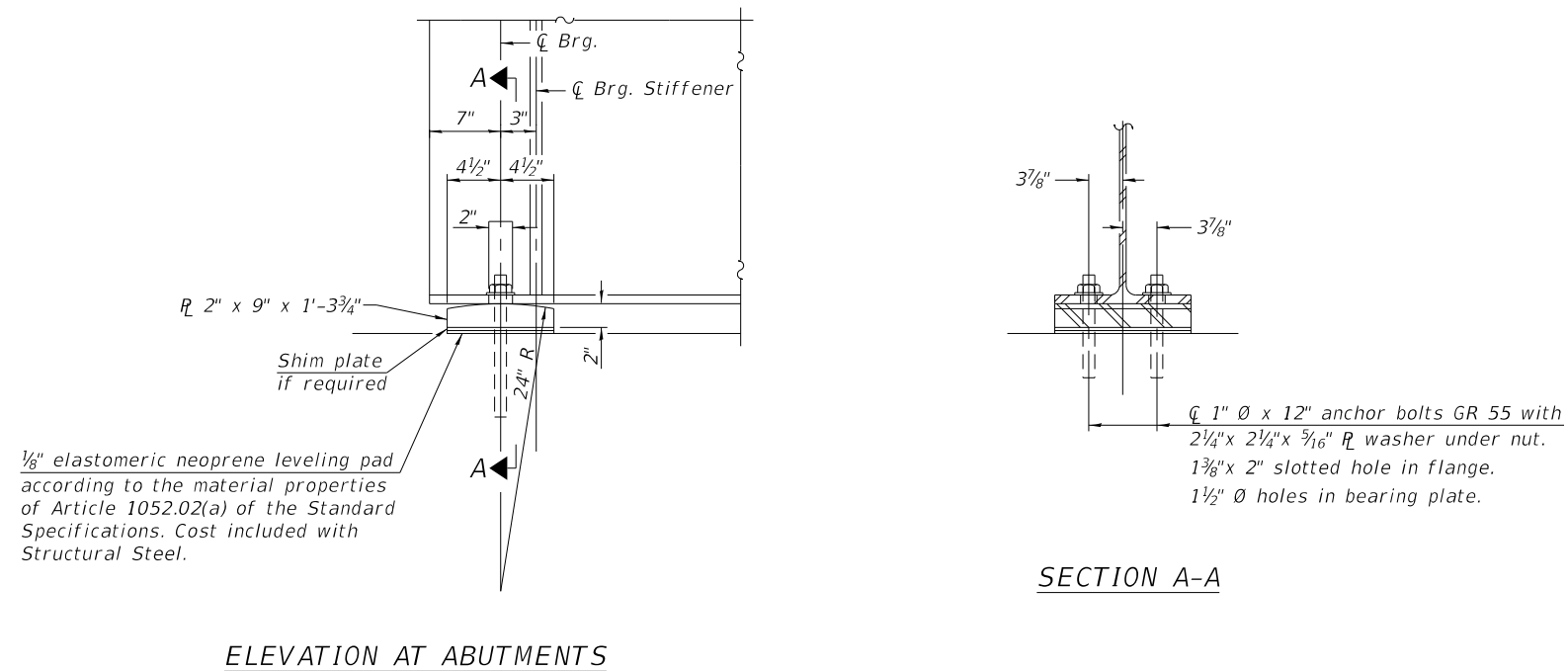
BEARING DETAILS
 STRUCTURE NO. 047-6708

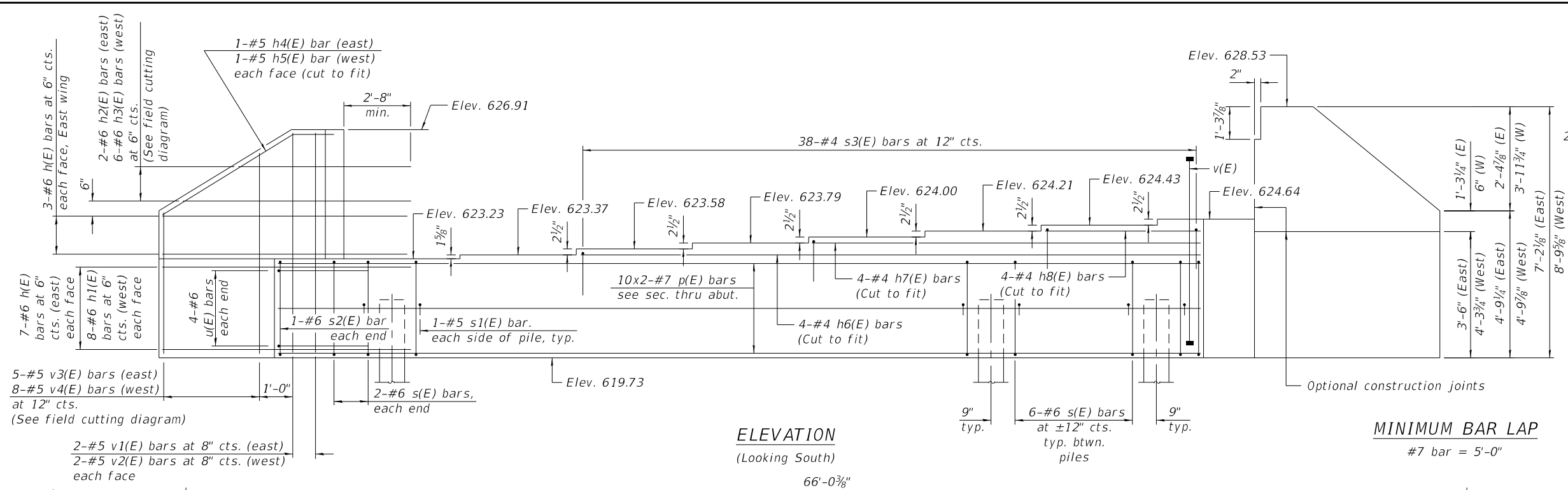
SHEET NO. 19 OF 24 SHEETS

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	32

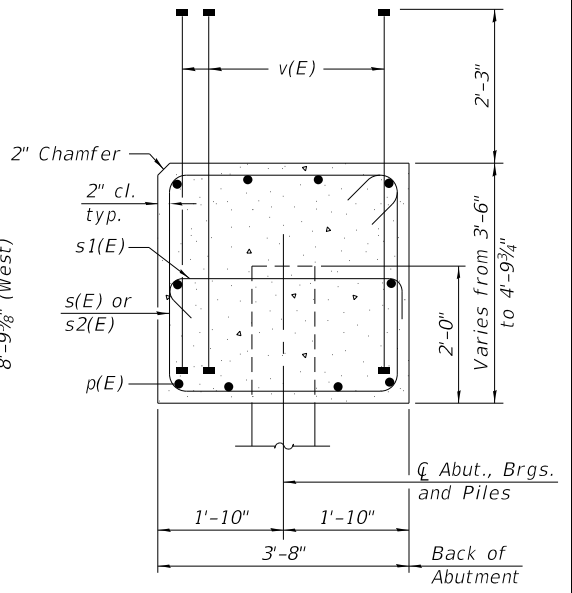
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	38
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



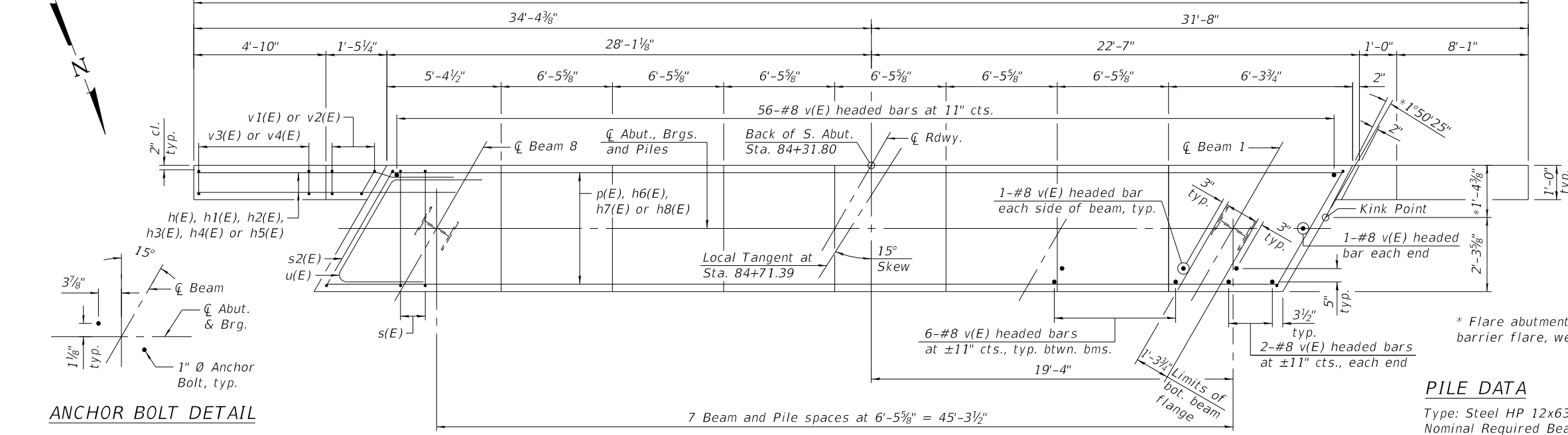


ELEVATION
(Looking South)

MINIMUM BAR LAP
#7 bar = 5'-0"



SEC. THRU ABUT.
Dimensions at right angles to abutment.



PLAN

PILE DATA

Type: Steel HP 12x63
Nominal Required Bearing: 400 k
Factored Resistance Available: 220 k
Est. Length: 40 ft
No. Production Piles: 7
No. Test Piles: 1

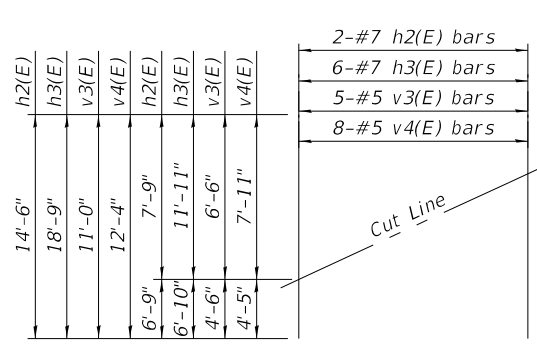
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#6	8'- 9"	—
h1(E)	16	#6	11'- 11"	—
h2(E)	2	#6	14'- 6"	—
h3(E)	6	#6	18'- 9"	—
h4(E)	2	#5	6'- 3"	—
h5(E)	2	#5	9'- 10"	—
h6(E)	4	#4	38'- 3"	—
h7(E)	4	#4	25'- 4"	—
h8(E)	4	#4	12'- 4"	—
p(E)	20	#7	27'- 8"	—
s(E)	46	#6	14'- 4"	□
s1(E)	16	#5	4'- 4"	□
s2(E)	2	#6	14'- 7"	□
s3(E)	38	#4	6'- 4"	□
u(E)	8	#6	11'- 11"	—
v(E)	120	#8	5'- 7"	—
v1(E)	4	#5	6'- 10"	—
v2(E)	4	#5	8'- 4"	—
v3(E)	5	#5	11'- 0"	—
v4(E)	8	#5	12'- 4"	—
Structure Excavation		Cu. Yd.	183	
Concrete Structures		Cu. Yd.	32.3	
Reinforcement Bars, Epoxy Coated		Pound	5,450	
Furnishing Steel Piles HP 12X63		Foot	280	
Driving Piles		Foot	280	
Test Pile Steel HP 12X63		Each	1	
Pile Shoes		Each	8	

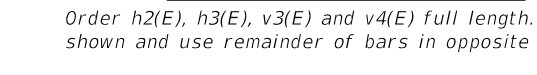
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

Notes:
Pour steps monolithically with cap.
For details of piles see sheet 22 of 24.
Bar terminators, paid for separately.
See Total Bill of Material.

ANCHOR BOLT DETAIL



FIELD CUTTING DIAGRAM



Order h2(E), h3(E), v3(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.
BAR v(E)
(Headed, 240-#8 Bar terminators)

BARS h4(E) & h5(E)

BARS s(E) & s2(E)

BAR s1(E)

BAR s3(E)

BAR u(E)

HRG PROJECT NO.: 17087.01
HRG PROJ. CONTACT:
FILE NAME: 0476708-xxxxx-020-Sabut.dgn
PLOT DRIVER: IL_Pdf.dwg
PEN TABLE: plotlabel.tbl



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	CHECKED - AEU	REVISED -
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PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

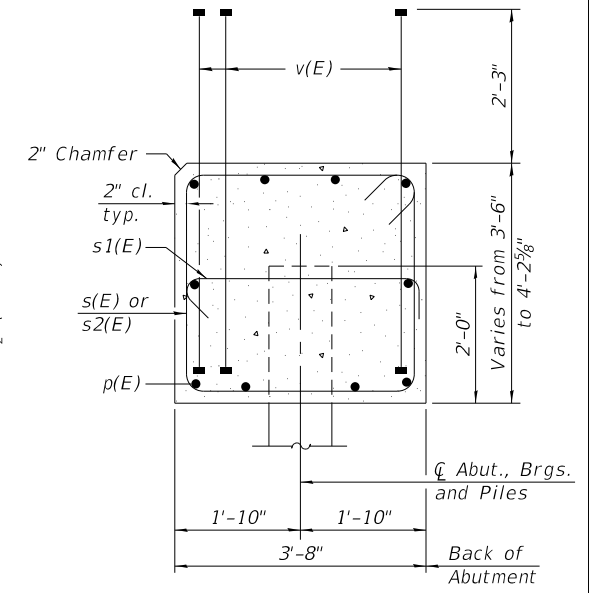
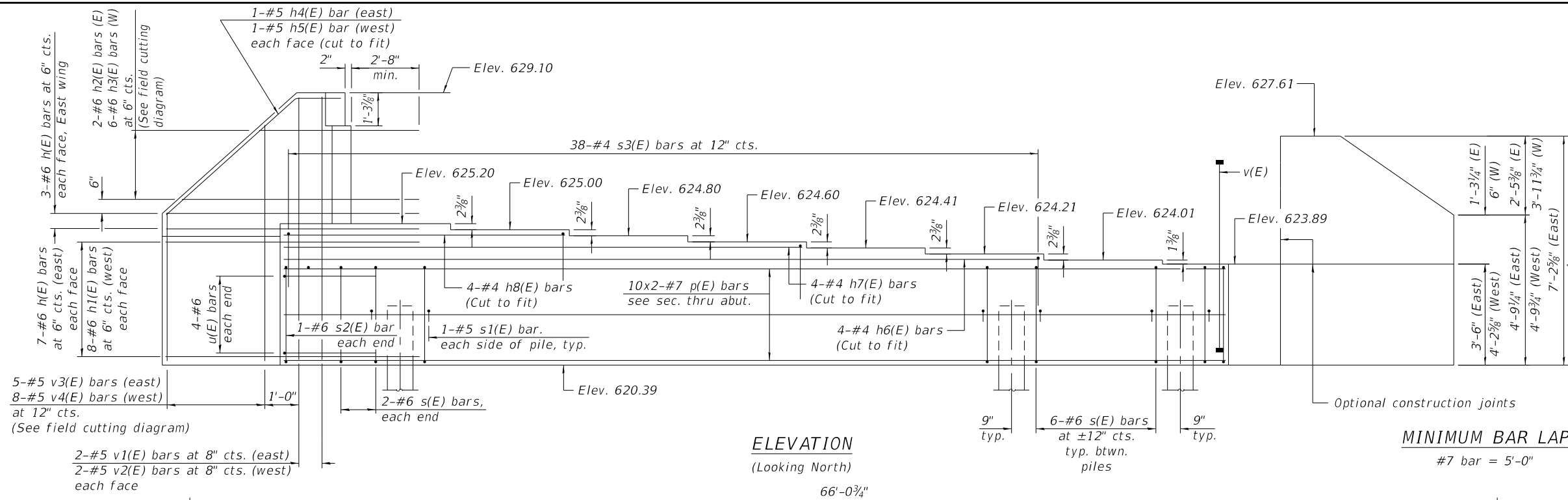
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 047-6708

SHEET NO. 20 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	39
CONTRACT NO. 87868				

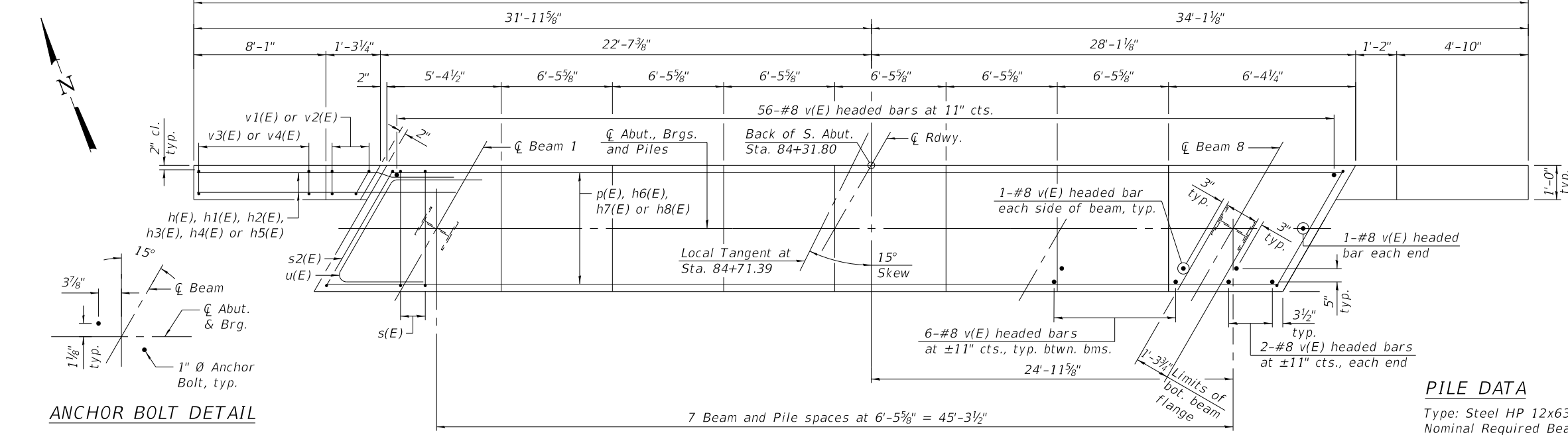
ILLINOIS FED. AID PROJECT



ELEVATION
(Looking North)

MINIMUM BAR LAP
#7 bar = 5'-0"

SEC. THRU ABUT.
Dimensions at right angles to abutment.



PLAN

PILE DATA

Type: Steel HP 12x63
Nominal Required Bearing: 364 k
Factored Resistance Available: 200 k
Est. Length: 40 ft
No. Production Piles: 7
No. Test Piles: 1

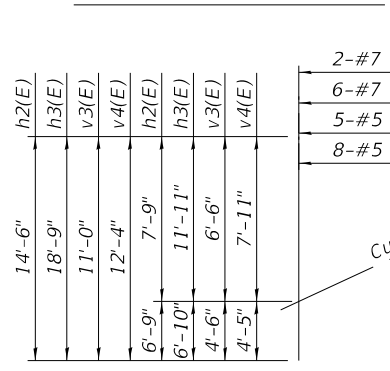
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#6	8'- 9"	—
h1(E)	16	#6	11'- 11"	—
h2(E)	2	#6	14'- 6"	—
h3(E)	6	#6	18'- 9"	—
h4(E)	2	#5	6'- 3"	—
h5(E)	2	#5	9'- 10"	—
h6(E)	4	#4	38'- 3"	—
h7(E)	4	#4	25'- 4"	—
h8(E)	4	#4	12'- 4"	—
p(E)	20	#7	27'- 8"	—
s(E)	46	#6	14'- 4"	□
s1(E)	16	#5	4'- 4"	□
s2(E)	2	#6	14'- 7"	□
s3(E)	38	#4	6'- 4"	□
u(E)	8	#6	11'- 11"	—
v(E)	120	#8	5'- 7"	—
v1(E)	4	#5	6'- 10"	—
v2(E)	4	#5	8'- 4"	—
v3(E)	5	#5	11'- 0"	—
v4(E)	8	#5	12'- 4"	—
Structure Excavation		Cu. Yd.	183	
Concrete Structures		Cu. Yd.	31.0	
Reinforcement Bars, Epoxy Coated		Pound	5,450	
Furnishing Steel Piles HP 12X63		Foot	280	
Driving Piles		Foot	280	
Test Pile Steel HP 12X63		Each	1	
Pile Shoes		Each	8	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

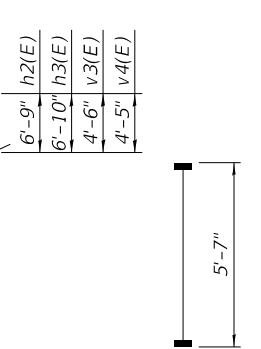
Notes:
Pour steps monolithically with cap.
For details of piles see sheet 22 of 24.
Bar terminators, paid for separately.
See Total Bill of Material.

ANCHOR BOLT DETAIL

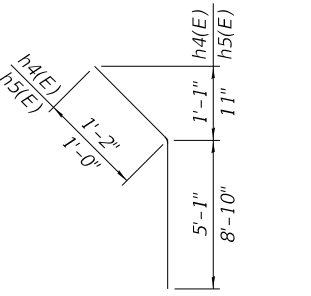


FIELD CUTTING DIAGRAM

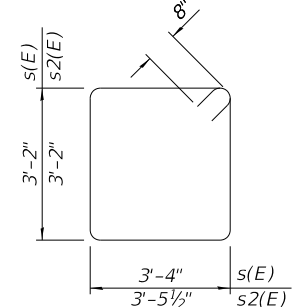
Order h2(E), h3(E), v3(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



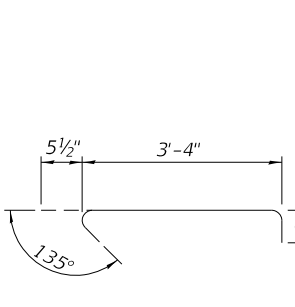
BAR v(E)
(Headed, 240-#8 Bar terminators)



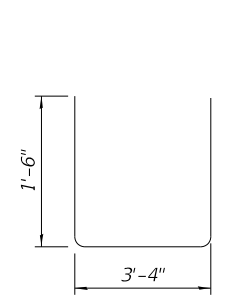
BARS h4(E) & h5(E)



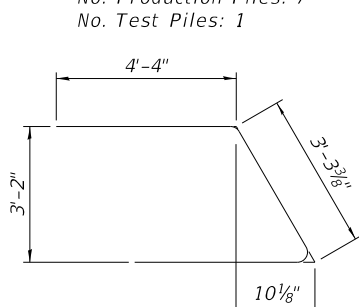
BARS s(E) & s2(E)



BAR s1(E)



BAR s3(E)



BAR u(E)

HRG PROJECT NO.: 17087.01
HRG PROJ. CONTACT:
FILE NAME: 0476708-xxxxx-021-Abut.dgn
PLOT DRIVER: IL_Pdf.dwg
PEN TABLE: plotlabel.tbl



USER NAME = amiller	DESIGNED = FAS	REVISED =
	CHECKED = AEU	REVISED =
PLOT SCALE =	DRAWN = FAS	REVISED =
PLOT DATE = 9/24/2024	CHECKED = AEU	REVISED =

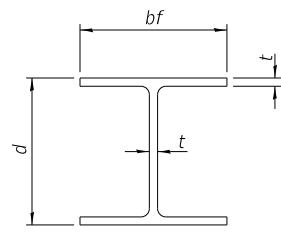
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 047-6708

SHEET NO. 21 OF 24 SHEETS

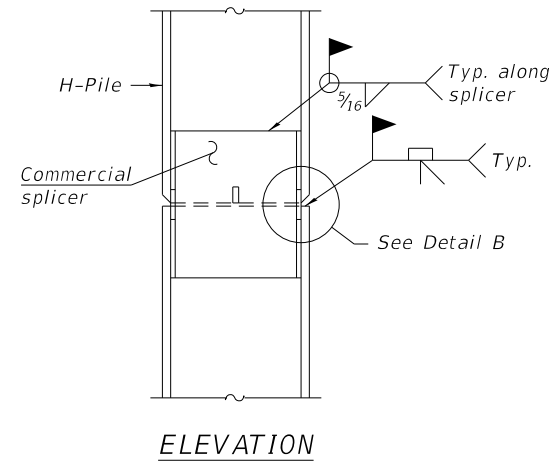
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	40
CONTRACT NO. 87868				

ILLINOIS FED. AID PROJECT

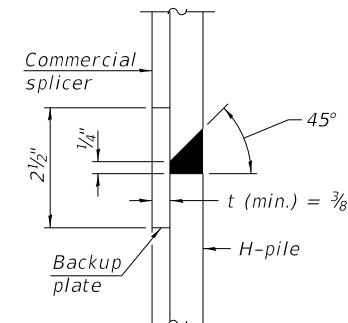


STEEL PILE TABLE

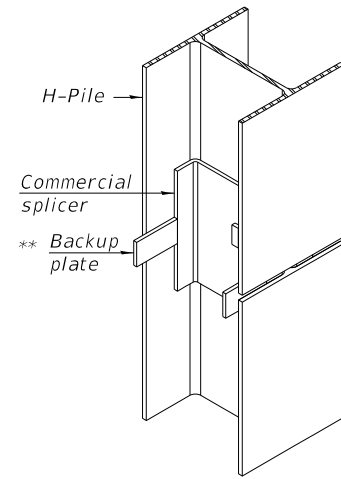
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

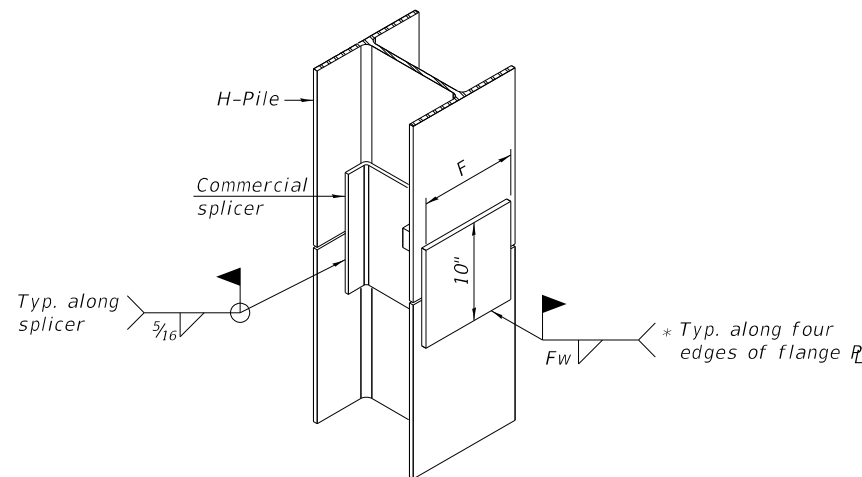


DETAIL "B"



ISOMETRIC VIEW

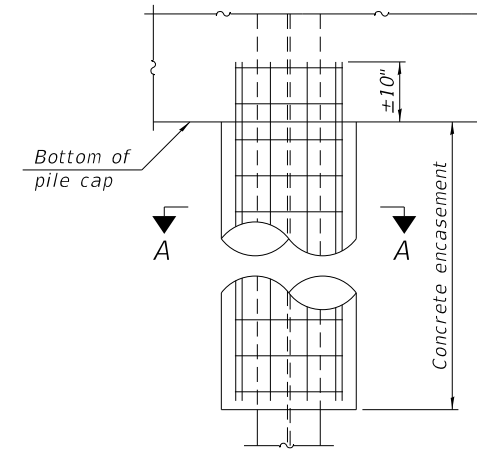
WELDED COMMERCIAL SPLICE



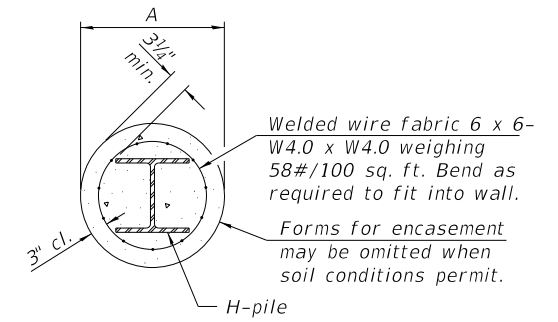
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

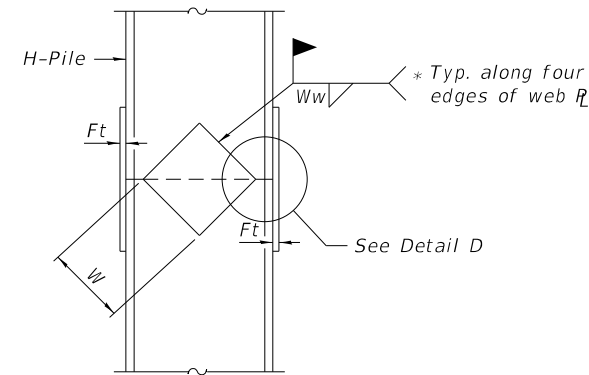


ELEVATION

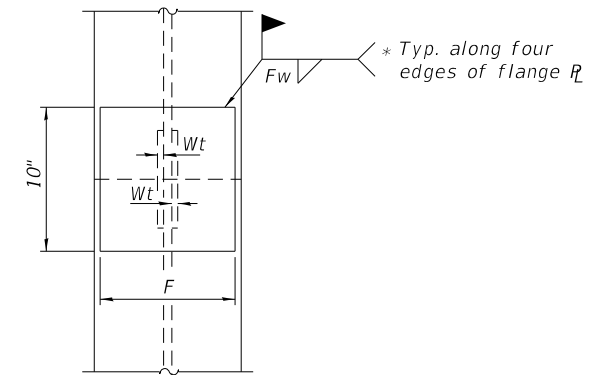


SECTION A-A

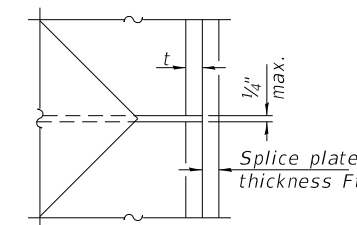
INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



ELEVATION



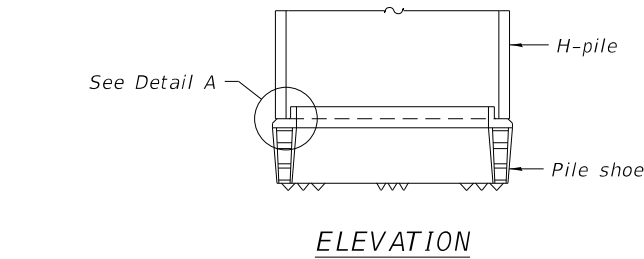
END VIEW



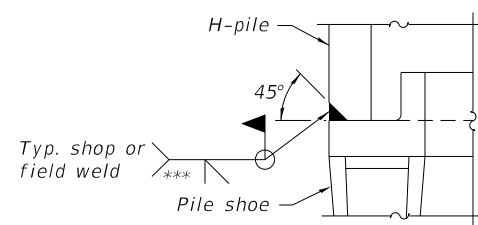
DETAIL D

WELDED PLATE FIELD SPLICE

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



ELEVATION



DETAIL A

SHOE ATTACHMENT

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

HRC PROJECT NO.: 17087.01
 HRC PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-022-Pling.dgn
 PLOT DRIVER: IL_Pdf.dwg.pltcfq
 PEN TABLE: plottable.tbl

F-HP

2-1-2023



USER NAME = amiller	DESIGNED - FAS	REVISED -
	CHECKED - AEU	REVISED -
PLOT SCALE =	DRAWN - FAS	REVISED -
PLOT DATE = 9/24/2024	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 047-6708

SHEET NO. 22 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	41
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-01

Page 1 of 2

WEI Job No.: 811-06-01

Client **HR Green, Inc**
Project **Minkler Bridge Over Morgan Creek**
Location **Oswego, Kendall County, Illinois**

Datum: NAVD 88
Elevation: 630.16 ft
North: 1814388.07 ft
East: 970952.02 ft
Station: NA
Offset: NA

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
629.75	75-inch thick ASPHALT --PAVEMENT--							604.7	Very dense, gray SILTY LOAM, some gravel; damp	11	11	26	NP	9	
628.8	Brown and gray, medium SAND, trace gravel; damp			1	8 6 4	2.25 P	15	602.7	Dense, gray Gravelly SAND; saturated	12	12	8 10 20	NP	23	
624.7	Stiff to very stiff, brown and gray CLAY LOAM to SILTY CLAY LOAM, trace to little gravel; damp			2	1 2 2	1.00 P	15	598.2	Very dense, gray LOAM to SILTY LOAM, some gravel; damp	13	13	60/5"	NP	7	
624.7	Very stiff, black SILTY CLAY, trace organic matter; damp			3	1 2 2	2.00 P	29	593.7	Very dense, gray and green Gravelly SANDY LOAM; damp to moist	14	14	50/5"	NP	6	
622.2	Stiff, brown and gray SILTY CLAY; damp			4	2 3 7	1.75 P	17	583.4	Very dense, gray and green SANDY GRAVEL; damp	15	15	43 50/2"	NP	7	
621.4	Medium dense, brown and gray SANDY GRAVEL; damp			5	5 7 3	NP	8	608.2	Gray, fine SAND; saturated	16	16	50/5"	NP	7	
618.2	Stiff, gray SILTY CLAY to SILTY CLAY LOAM; damp to moist			6	2 3 2	1.56 B	18	607.2	Medium dense, gray Gravelly SAND; moist						
616.2	Brown, coarse SAND; saturated			7	2 2 4	1.31 B	8								
616.0	Loose to medium dense, gray SILT; saturated			8	2 3 3	NP	26								
	--sand seams; saturated--			9	4 6 5	NP	25								
	--clay lamination--			10	12 15 11	NP	8								

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-01-2021** Complete Drilling **09-01-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **13CME55T [85%]**
 Driller **R&R** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **14.00 ft**
 At Completion of Drilling ∇ **6.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-01

Page 2 of 2

WEI Job No.: 811-06-01

Client **HR Green, Inc**
Project **Minkler Bridge Over Morgan Creek**
Location **Oswego, Kendall County, Illinois**

Datum: NAVD 88
Elevation: 630.16 ft
North: 1814388.07 ft
East: 970952.02 ft
Station: NA
Offset: NA

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
578.4	Very dense, gray weathered SHALE fragments			2				551.2	--RQD = 33%-- --80% water return--	17	17	50/3"	NP	5	
566.2	Gray and green Weathered Sandstone; damp			18						18	18	50/2"	NP	4	
	Medium strong, dark greenish black, poor rock mass quality SHALE and MUDSTONE; slightly weathered rock and joints, closely spaced horizontal and oblique joints, with 0.05 to 0.2-inch joint opening, hard joint wall, slicken joint wall surface, soft infill strength, and greater than 0.2-inch infill thickness.			1						1	1				
	--Run 1: 64.0 to 74.0 feet-- --Recovery = 98%-- --RQD = 29%--														
	--Run 2: 74.0 to 79.0 feet-- --Recovery = 100%--														

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **09-01-2021** Complete Drilling **09-01-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **13CME55T [85%]**
 Driller **R&R** Logger **M. Sadowski** Checked by **EG**
 Drilling Method **3.25" ID HSA; boring backfilled upon completion**

While Drilling ∇ **14.00 ft**
 At Completion of Drilling ∇ **6.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

HRC PROJECT NO.: 17087.01
 HRC PROJ. CONTACT:
 FILE NAME: 0476708-xxxx-023-Bor-Eng.dgn
 PLOT DRIVER: IL_Pdf_Bw.plt
 PEN TABLE: PltTable.tbl



HRGreen.com
 #184-001322
 #184-001322

USER NAME	DESIGNED	REVISION
amiller	FAS	-
	AEU	-
	FAS	-
	AEU	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOG
STRUCTURE NO. 047-6708**

SHEET NO. 23 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	42
CONTRACT NO. 87868				

ILLINOIS FED. AID PROJECT



BORING LOG B-02

wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 811-06-01

Client: **HR Green, Inc**
Project: **Minkler Bridge Over Morgan Creek**
Location: **Oswego, Kendall County, Illinois**

Datum: NAVD 88
Elevation: 630.88 ft
North: 1814501.21 ft
East: 971020.05 ft
Station: NA
Offset: NA

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
630.6	3-inch thick ASPHALT --PAVEMENT--								Gravelly SAND to SANDY LOAM; saturated						
629.4	Medium dense, brown and gray Gravelly SAND to SANDY LOAM; damp			1	12 8 5	3.00	10		--RDR 2-4--			11	21 26 38	NP	9
627.9	--AGGREGATE BASE--								--RDR 2-4--			12	14 18 20	NP	23
625.4	Very stiff, brown CLAY LOAM, little gravel; damp			2	1 2 2	1.07	25		--hard drilling at 32.5 feet-- --cobbles from 33.0 to 34.0 feet--			13	41 50/3"	NP	
624.4	Stiff, brown SILTY CLAY LOAM; damp			3	2 1 1	0.74	32		Very dense, gray SILTY LOAM, little to some gravel; damp			14	18 33 50/4"	NP	8
621.9	Stiff (1.00P), black SILTY CLAY LOAM; damp			4	4 10 13	0.98	23		--hard drilling-- --possible cobbles--			15		NP	5
620.4	Medium stiff, gray and brown SILTY CLAY to SILTY CLAY LOAM; damp			5	5 9 10		22		Very dense, black and white SANDY GRAVEL; wet			16		NR	
615.4	Medium dense, brown and gray SANDY GRAVEL; damp			6	5 8 12		22		Possible Weathered BEDROCK at 46 feet						
615.4	Medium dense, gray, fine to coarse SAND, trace to some gravel; saturated			7	6 7 8		19		Boring terminated at 48.50 ft						
615.4	Medium dense, brown to gray SILT; saturated			8	9 8 9		17								
615.4	--RDR 2--			9	8 10 12		15								
615.4	--RDR 2-3--			10	7 18 10		15								
606.4	Dense to very dense, gray														

GENERAL NOTES

Begin Drilling **09-02-2021** Complete Drilling **09-02-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **13CME55T [85%]**
 Driller **R&R** Logger **M. Sadowski** Checked by **JAB**
 Drilling Method **2.25" ID HSA to 10 ft; mud rotary thereafter; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **10.00 ft**
 At Completion of Drilling **mud in borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG SHA-01

wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 811-06-01

Client: **HR Green, Inc**
Project: **Minkler Bridge Over Morgan Creek**
Location: **Oswego, Kendall County, Illinois**

Datum: NAVD 88
Elevation: 615.69 ft
North: 1814441.15 ft
East: 971009.55 ft
Station: NA
Offset: NA

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
615.35	3.5-inch thick, very soft (<0.25P), black and gray, organic SANDY CLAY LOAM			1		1.75	9								
614.3	Stiff, gray CLAY LOAM, little gravel; damp			2			20								
610.9	Gray, medium SAND; saturated			3		1.00	13								
609.9	Stiff, gray CLAY LOAM, little gravel; moist			4			13								
605.7	Gray, medium to coarse SAND, trace to little gravel; saturated			5			16								
605.7	Boring terminated at 10.00 ft														

GENERAL NOTES

Begin Drilling **09-02-2021** Complete Drilling **09-02-2021**
 Drilling Contractor **Wang Testing Services** Drill Rig **Geoprobe HA**
 Driller **R&R** Logger **M. Sadowski** Checked by **JAB**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling **0.00 ft**
 At Completion of Drilling **0.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

HRG PROJECT NO.: 17087.01
HRG PROJ. CONTACT:
FILE NAME: 0476708-xxxx-024-Bor-Log2.dgn
PLOT DRIVER: IL_Pdf.dwg
PEN TABLE: PlotLabel.tbl



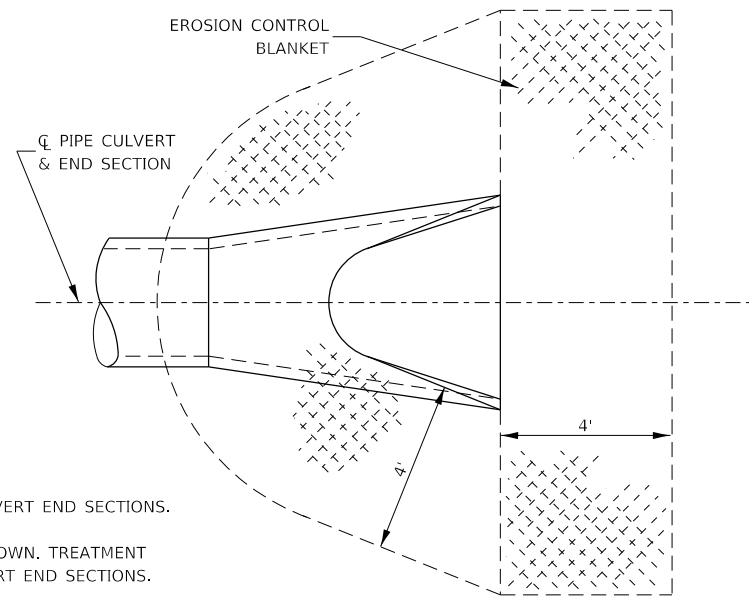
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 DESIGNED = FAS
 CHECKED = AEU
 PLOT SCALE =
 DRAWN = FAS
 PLOT DATE = 9/24/2024
 CHECKED = AEU
 REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG
STRUCTURE NO. 047-6708

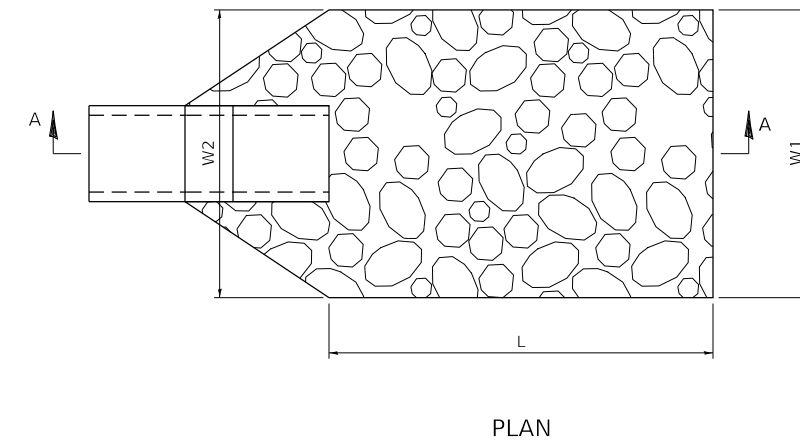
SHEET NO. 24 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	43
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

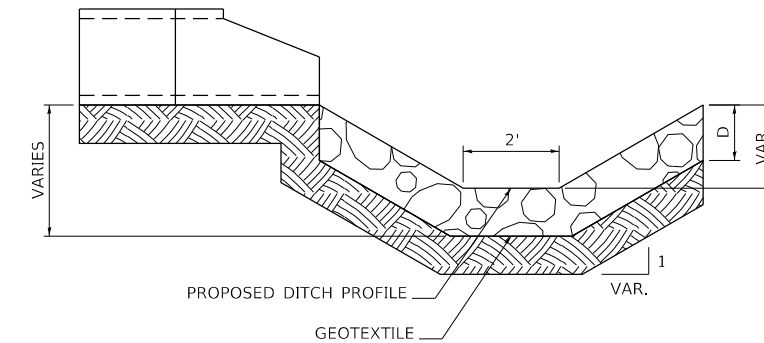


- NOTES:
1. TO BE USED AT ALL PIPE CULVERT END SECTIONS.
 2. PRC FLARED END SECTION SHOWN. TREATMENT SAME FOR OTHER PIPE CULVERT END SECTIONS.
 3. SEE DETAIL BELOW FOR TREATMENT AT BOX CULVERT END SECTIONS.

**DETAIL OF EROSION CONTROL BLANKET
LINING AROUND END SECTION**



PLAN



SECTION A-A

NOTES:

1. THE FILTER FABRIC SHALL MEET THE REQUIREMENTS IN MATERIAL SPECIFICATIONS 592 GEOTEXTILE TABLE 1 OR 2, CLASS I, II OR III.
2. THE ROCK RIPRAP SHALL MEET THE IDOT REQUIREMENTS FOR THE GRADATION SPECIFIED ON THE EROSION CONTROL PLANS.
3. THE RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 61 LOOSE ROCK RIPRAP. THE ROCK MAY BE EQUIPMENT PLACED. DIMENSIONS SHOWN IN PLAN VIEW SHALL BE AS SPECIFIED ON THE EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

RIPRAP OUTLET

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/20/24-ent-det.dgn
 PEN TABLE: riprap.tbl



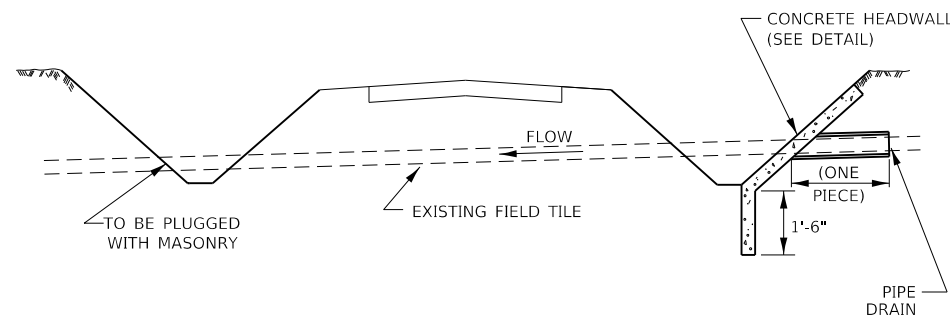
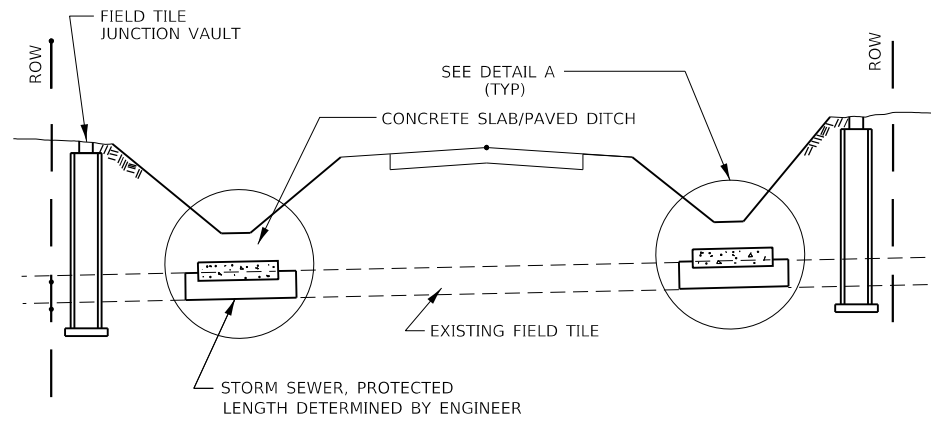
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	DRAWN - AJM	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

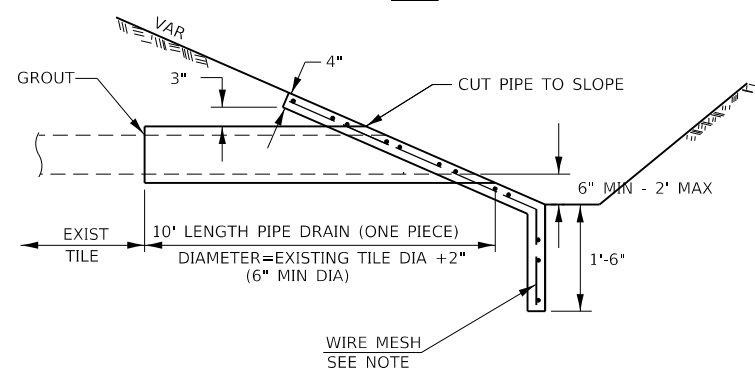
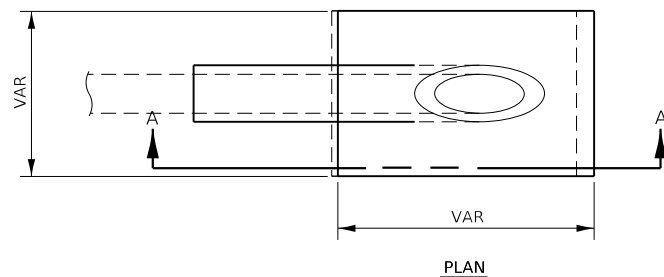
**MISCELLANEOUS DETAILS
(SHEET 1 OF 6)**

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	44
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

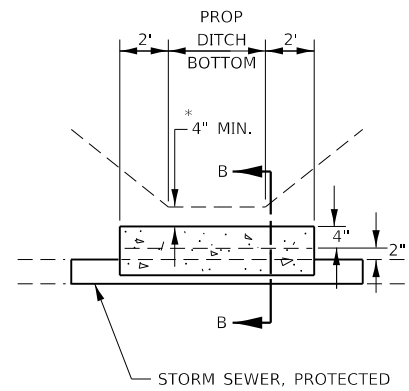


FIELD TILE REPLACEMENT



SECTION A-A

CLASS SI CONCRETE HEADWALLS



DETAIL A

NO SCALE

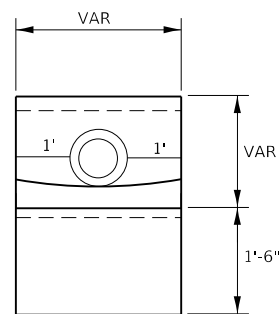
* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

NOTES

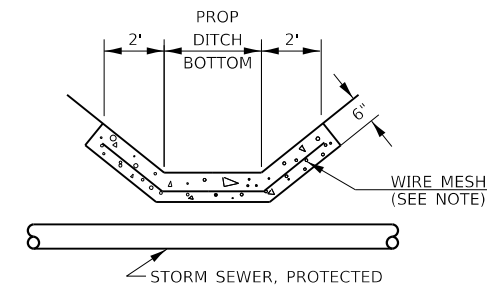
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

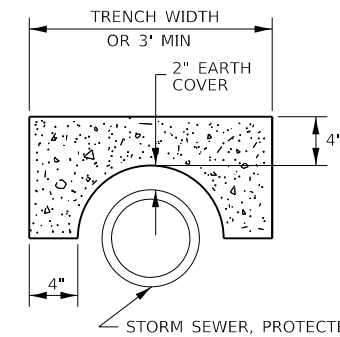


END VIEW

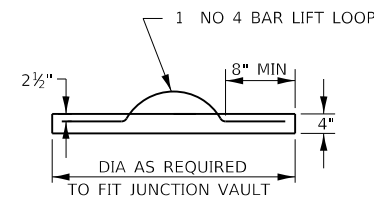
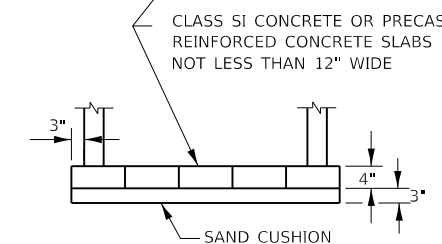
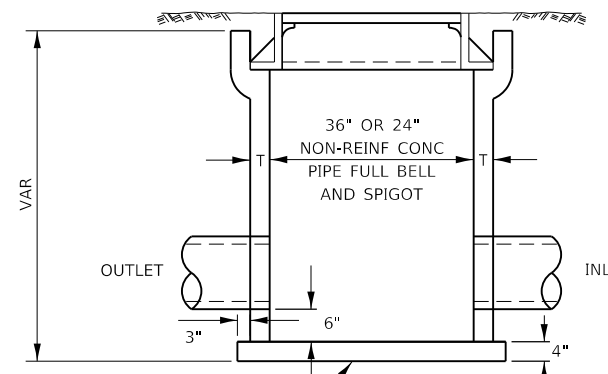


DETAIL C

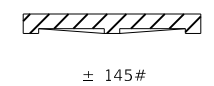
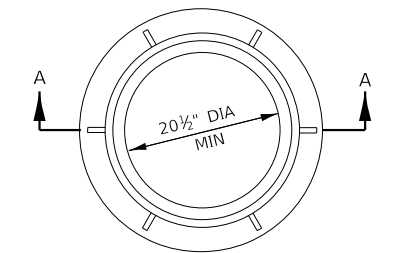
NO SCALE



SECTION B-B



FIELD TILE JUNCTION VAULT



SECTION A-A

ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8"
CONCRETE BUILDING BRICK, GRADE A	8"

NOTES

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/20/24-20-srt-drt.dgn
 PEN TABLE: 10/10/24.tbl



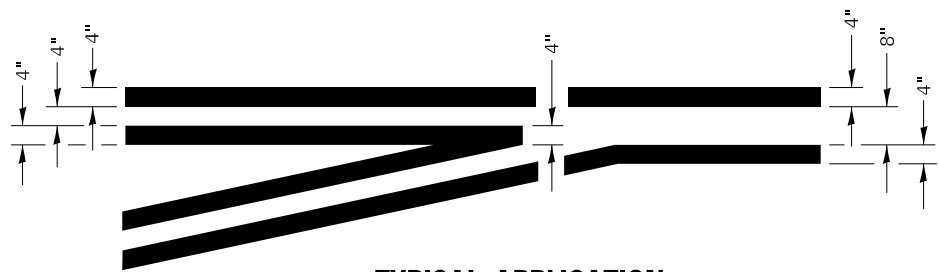
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PLOT SCALE = 100,0000' / in.	DRAWN - AJM	REVISED -
PLOT DATE = 8/28/2024	CHECKED - JMR	REVISED -
	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

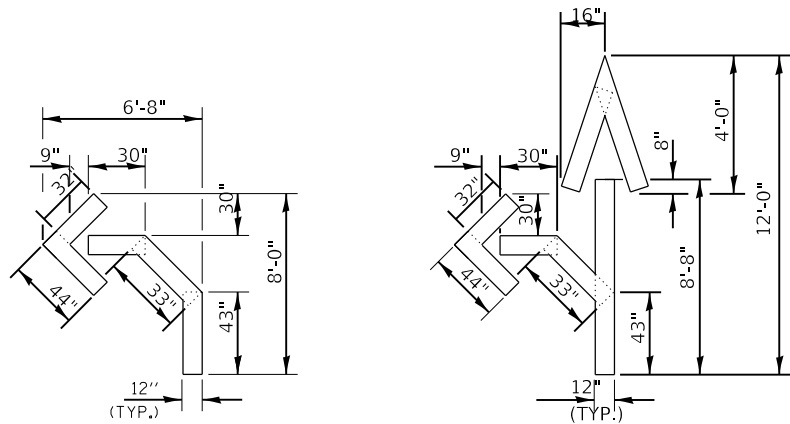
**MISCELLANEOUS DETAILS
 (SHEET 2 OF 6)**

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-0053-00-BR	KENDALL	62	45
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

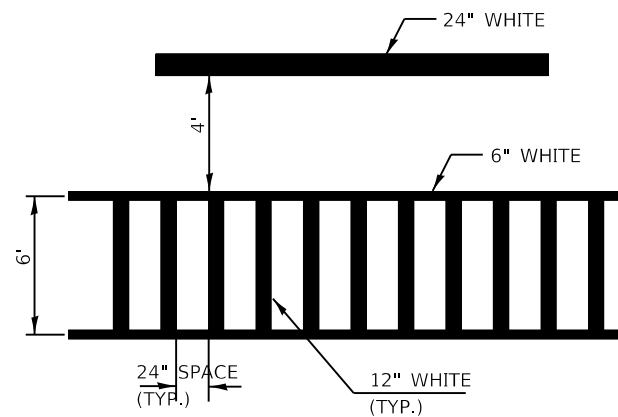
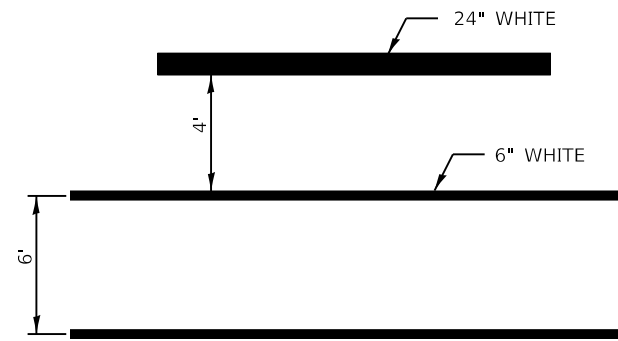


**TYPICAL APPLICATION
AT LEFT TURN LANES**

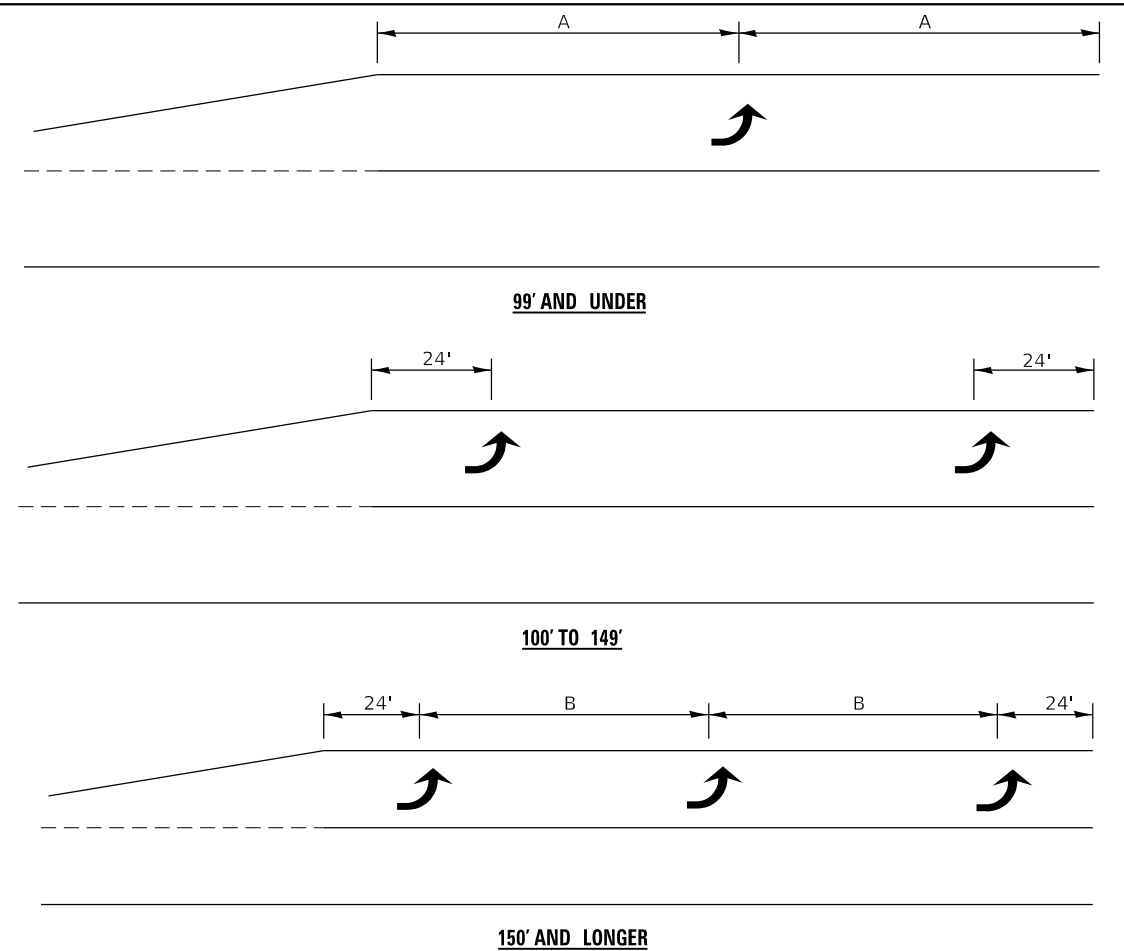


QUANTITY
12" LINE = 16 LIN. FT.
OR 4" LINE = 48 LIN. FT.

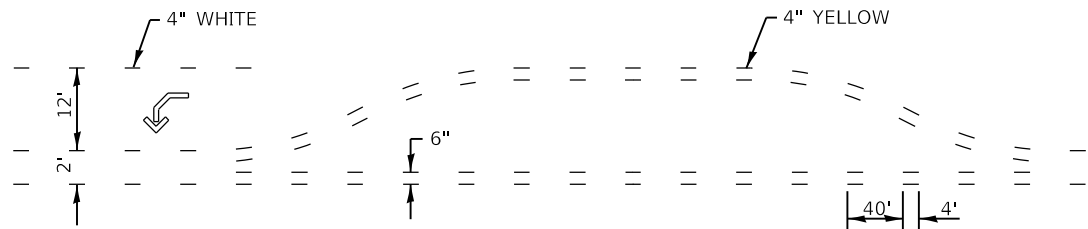
QUANTITY
12" LINE = 29 LIN. FT.
OR 4" LINE = 87 LIN. FT.



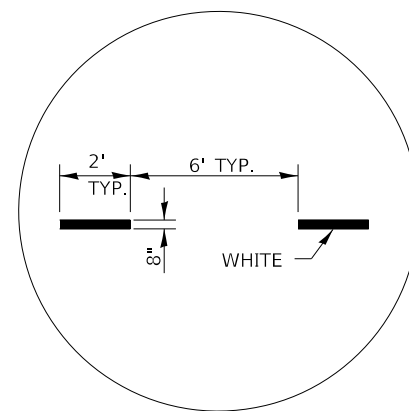
**TYPICAL SPACING DETAIL FOR
CROSSWALKS AND STOP BARS**



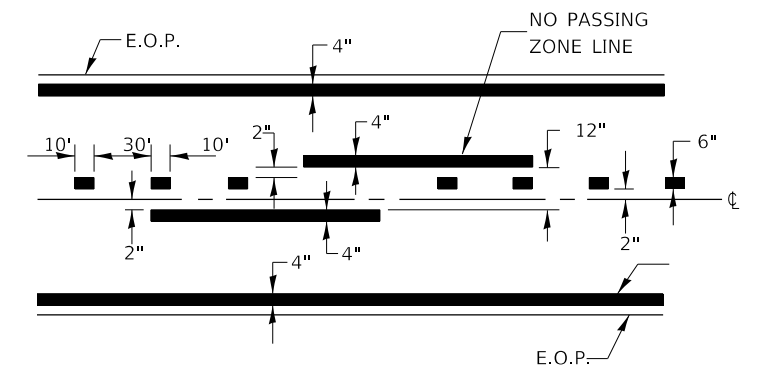
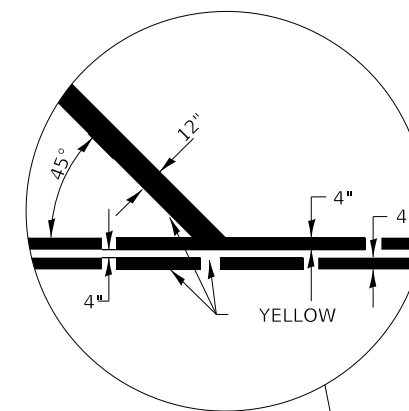
**TYPICAL PLACEMENT OF ARROWS
IN TURN LANES**



**SHORT-TERM PAVEMENT MARKING
FOR MEDIANS AND ARROWS**

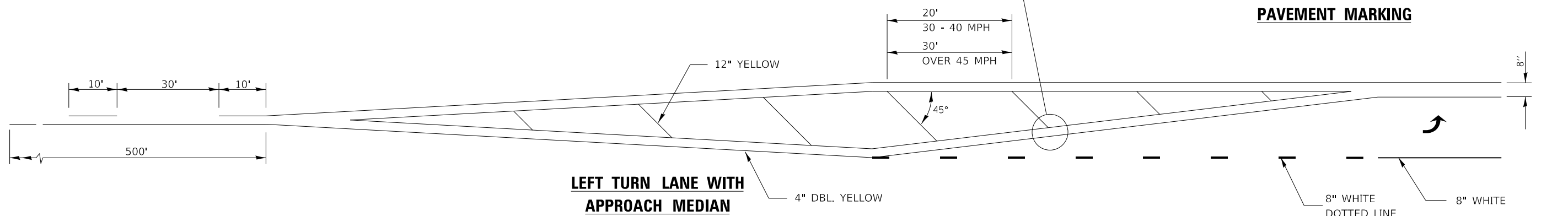


**ADVANCE AND INTERSECTION
LANE DIVIDER LINES**



**CENTERLINE & NO PASSING
ZONE LINES - YELLOW**

PAVEMENT MARKING



**LEFT TURN LANE WITH
APPROACH MEDIAN**

HRG PROJECT NO.: 17087.01
HRG PROJ. CONTACT:
FILE NAME: 08/20/24-srt-def.dgn
PEN TABLE: 10/10/24.tbl

HRGreen.com
Illinois Professional Design Firm
#184-001322

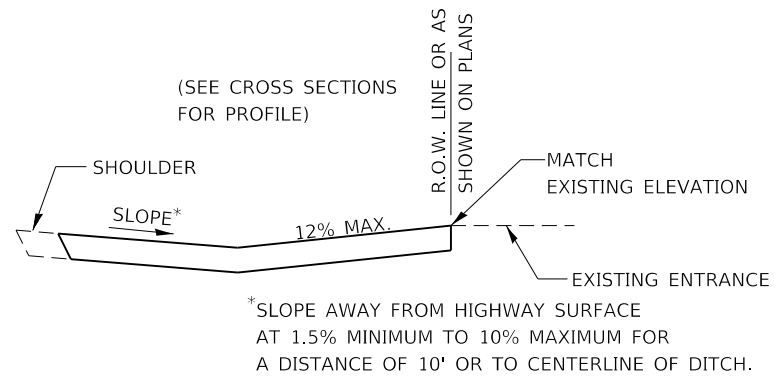
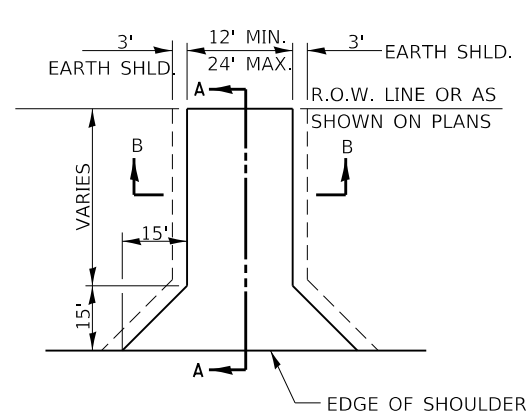
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DRAWN - AJM	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
(SHEET 3 OF 6)**

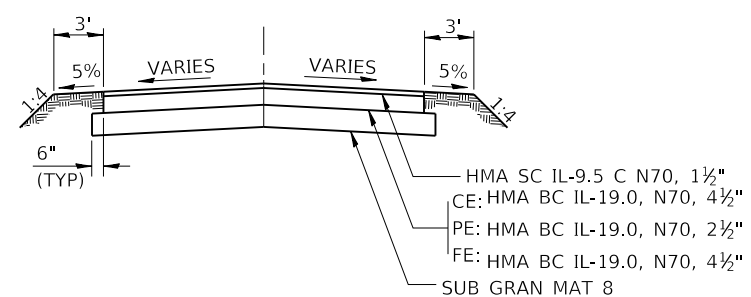
SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	46
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

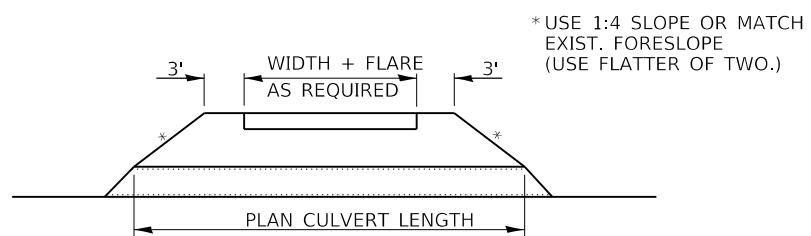


*SLOPE AWAY FROM HIGHWAY SURFACE AT 1.5% MINIMUM TO 10% MAXIMUM FOR A DISTANCE OF 10' OR TO CENTERLINE OF DITCH.

SECTION A-A

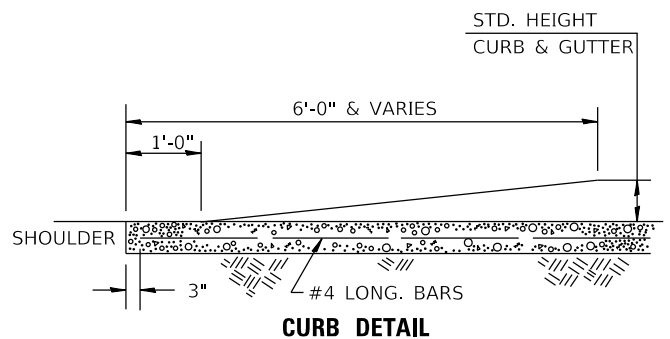


SECTION B-B

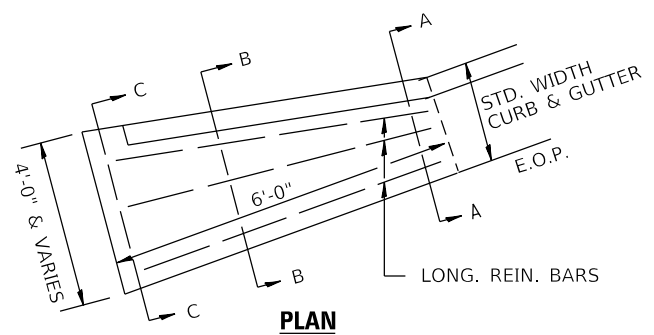


NOTE: FIELD ENTRANCES SHALL BE SURFACED FROM THE EDGE OF PAVEMENT TO THE END OF THE APRON. ALL OTHER DRIVEWAYS SHALL BE SURFACED FROM THE EDGE OF PAVEMENT TO THE RIGHT OF WAY LINE.

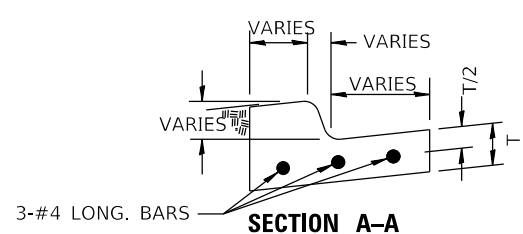
FIELD ENTRANCE DETAIL



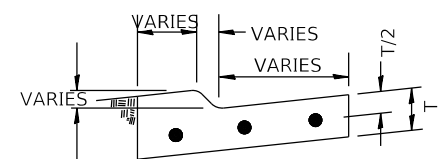
CURB DETAIL



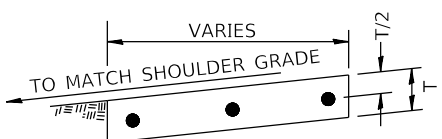
PLAN



SECTION A-A



SECTION B-B

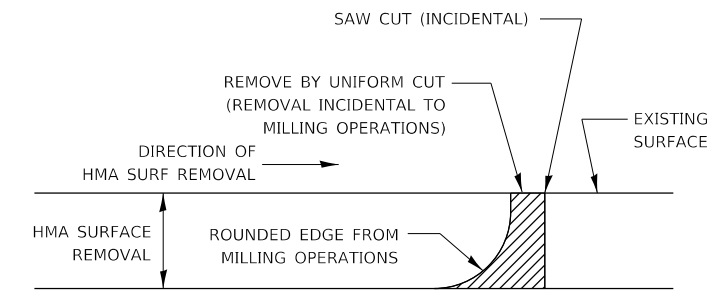


SECTION C-C

NOTES:

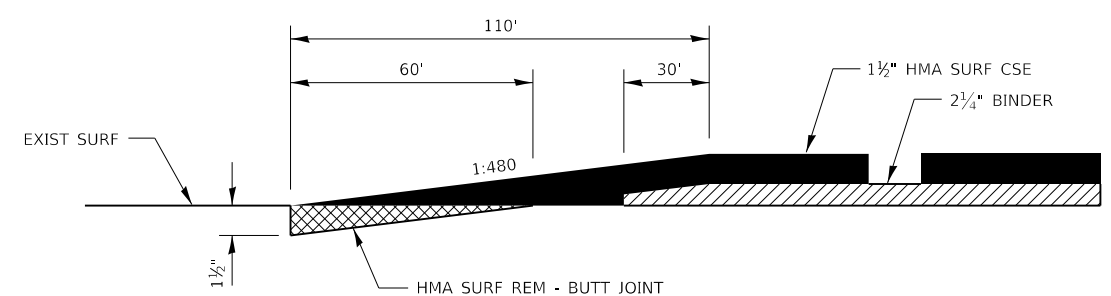
1. CONCRETE CURB AND GUTTER OUTLET, SPECIAL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE MEASURED AND PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER, OF THE ADJACENT TYPE SPECIFIED IN THE PLANS.
2. WHEN ADJACENT TO COMBINATION CONCRETE CURB AND GUTTER, TYPE M4.12, TWO EVENLY SPACED LONGITUDINAL REINFORCEMENT BARS SHALL BE REQUIRED INSTEAD OF THREE. SEE PLAN AND PROFILES FOR LOCATIONS OF SPECIFIC CURB TYPES.

CONCRETE CURB AND GUTTER OUTLET, SPECIAL



NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.



HMA DETAIL AT BUTT JOINTS

HRG PROJECT NO.: 17087.01
 HRG PROJ. CONTACT:
 FILE NAME: 08/20/24-ent-drf01.dgn
 PEN TABLE: 08/20/24-ent.dwg



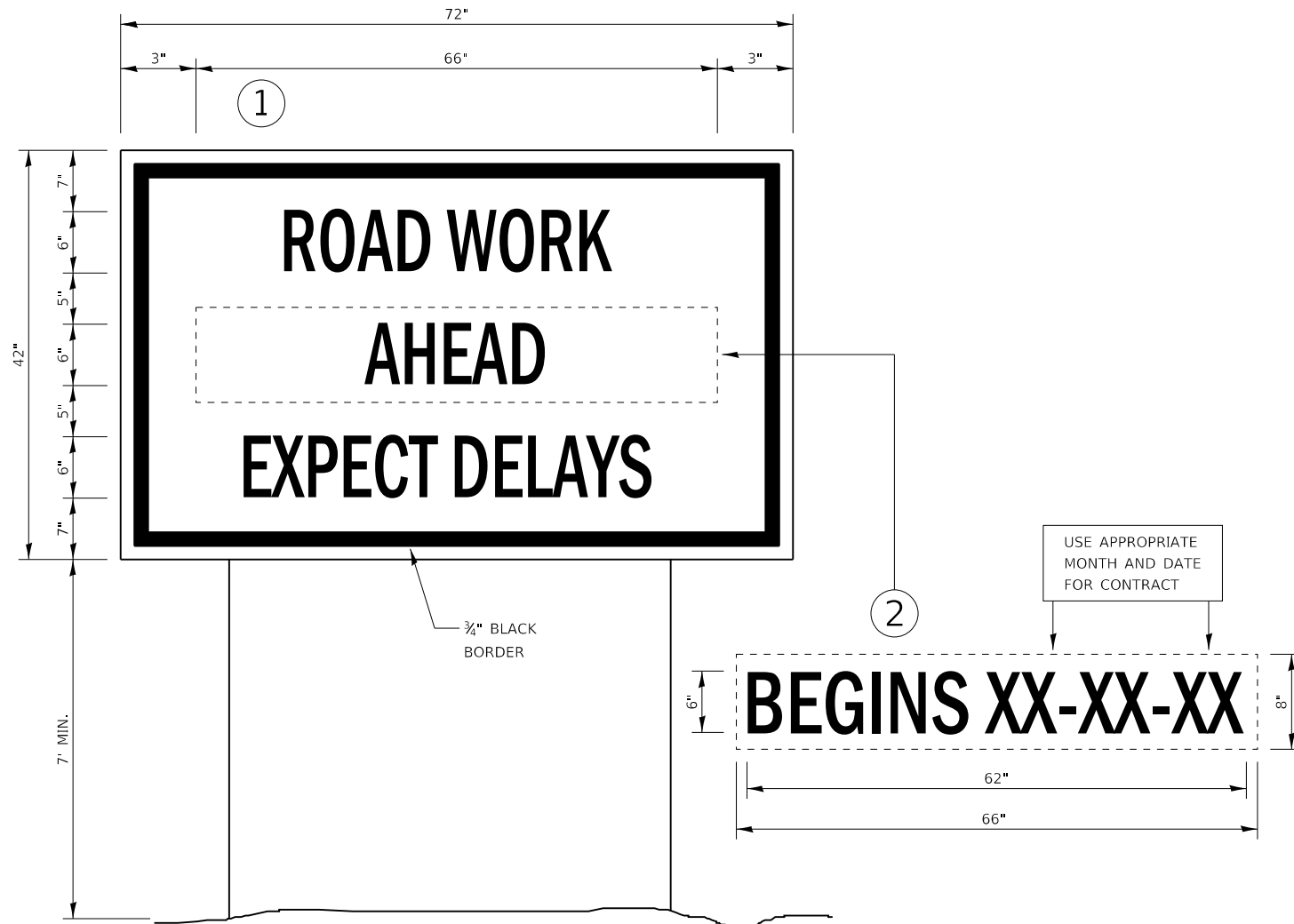
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PLOT SCALE = 100.0000' / in.	DRAWN - AJM	REVISED -
PLOT DATE = 8/28/2024	CHECKED - JMR	REVISED -
	DATE - 6/25/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
(SHEET 4 OF 6)

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

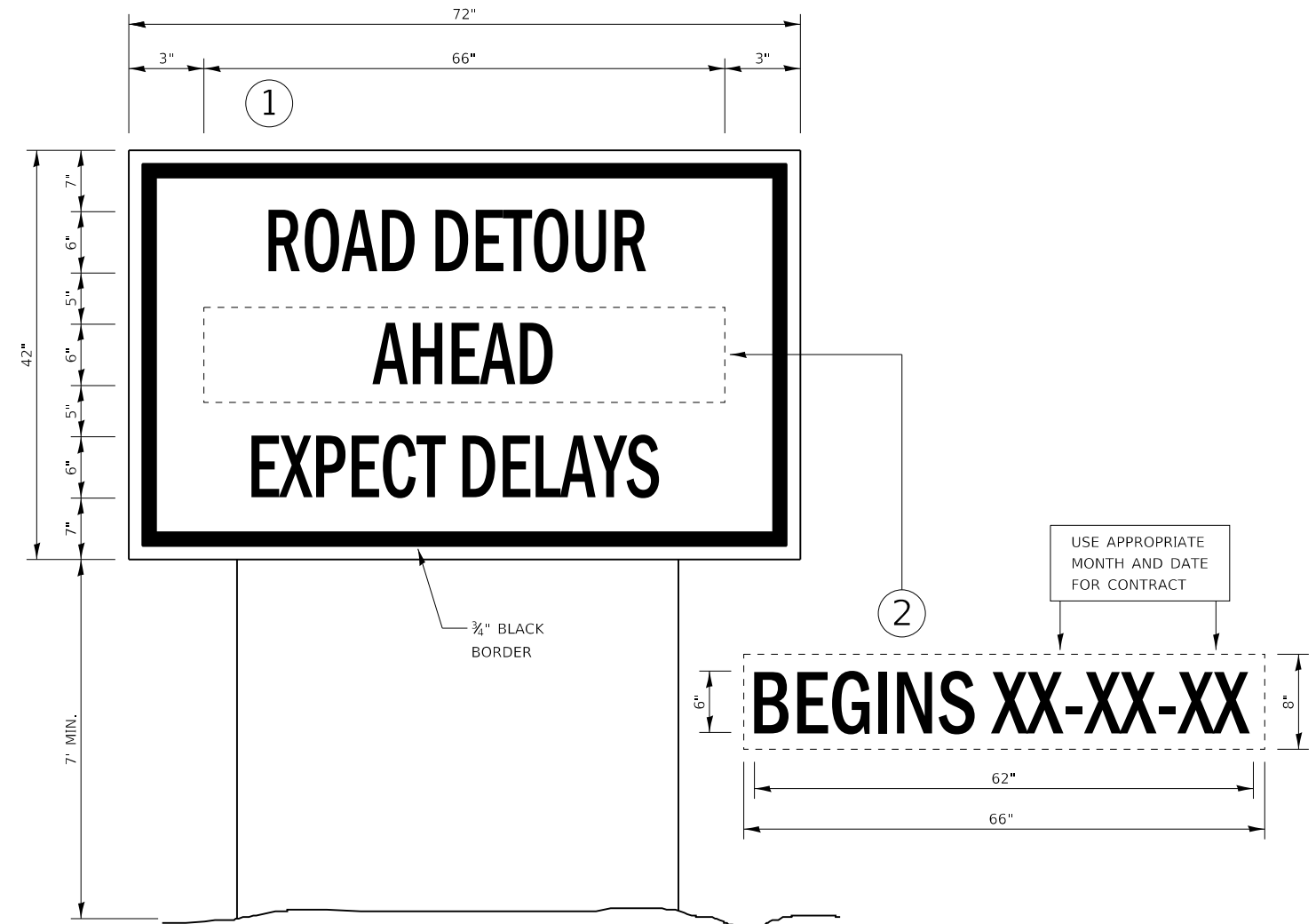
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	47
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



TEMPORARY INFORMATION SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE DETOUR.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

HRG PROJECT No.: 17087.01
 HRG PROJ CONTACT:
 FILE NAME: 08/28/24-ent-det-01.dgn
 PEN TABLE: 08/28/24.tbl



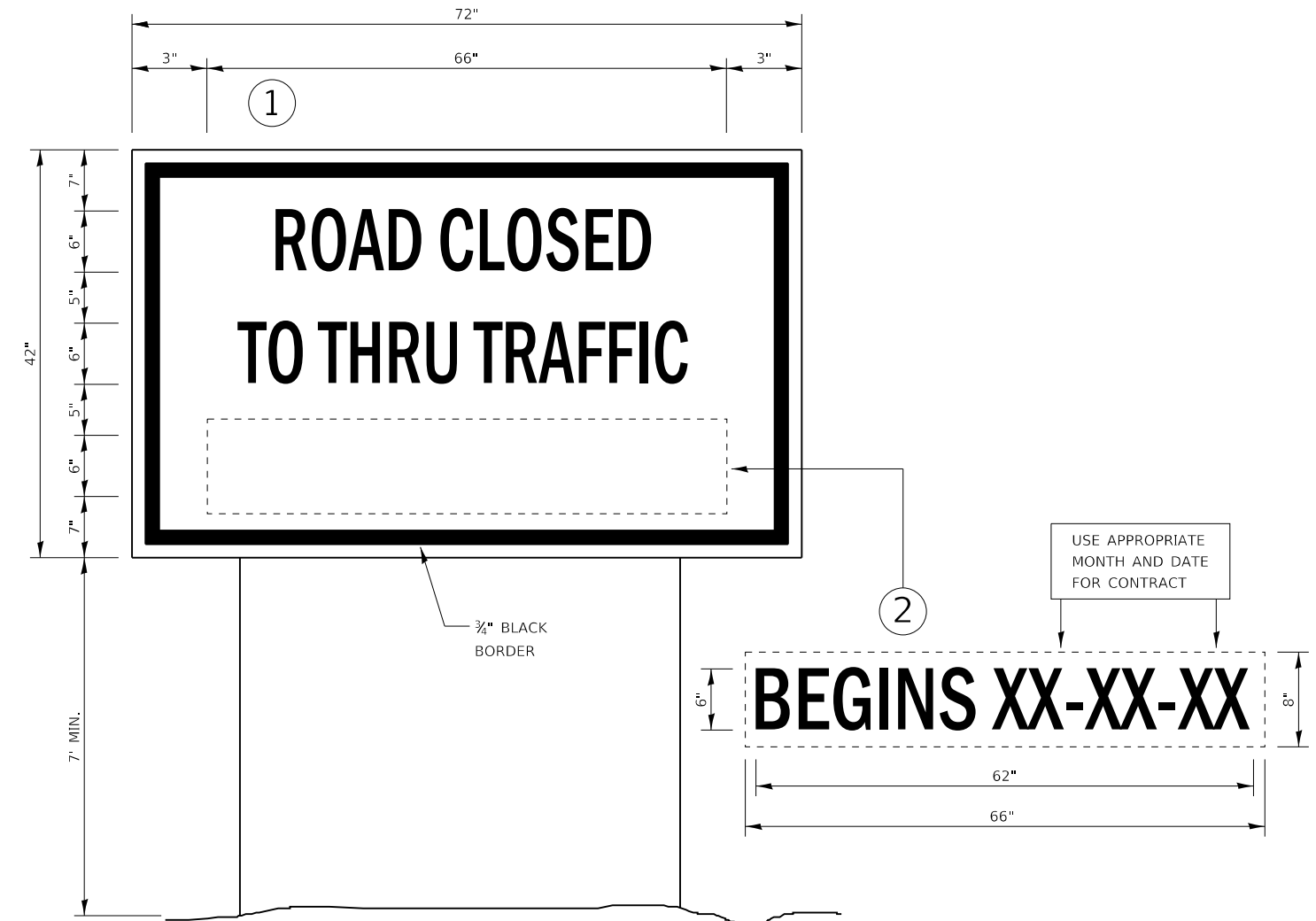
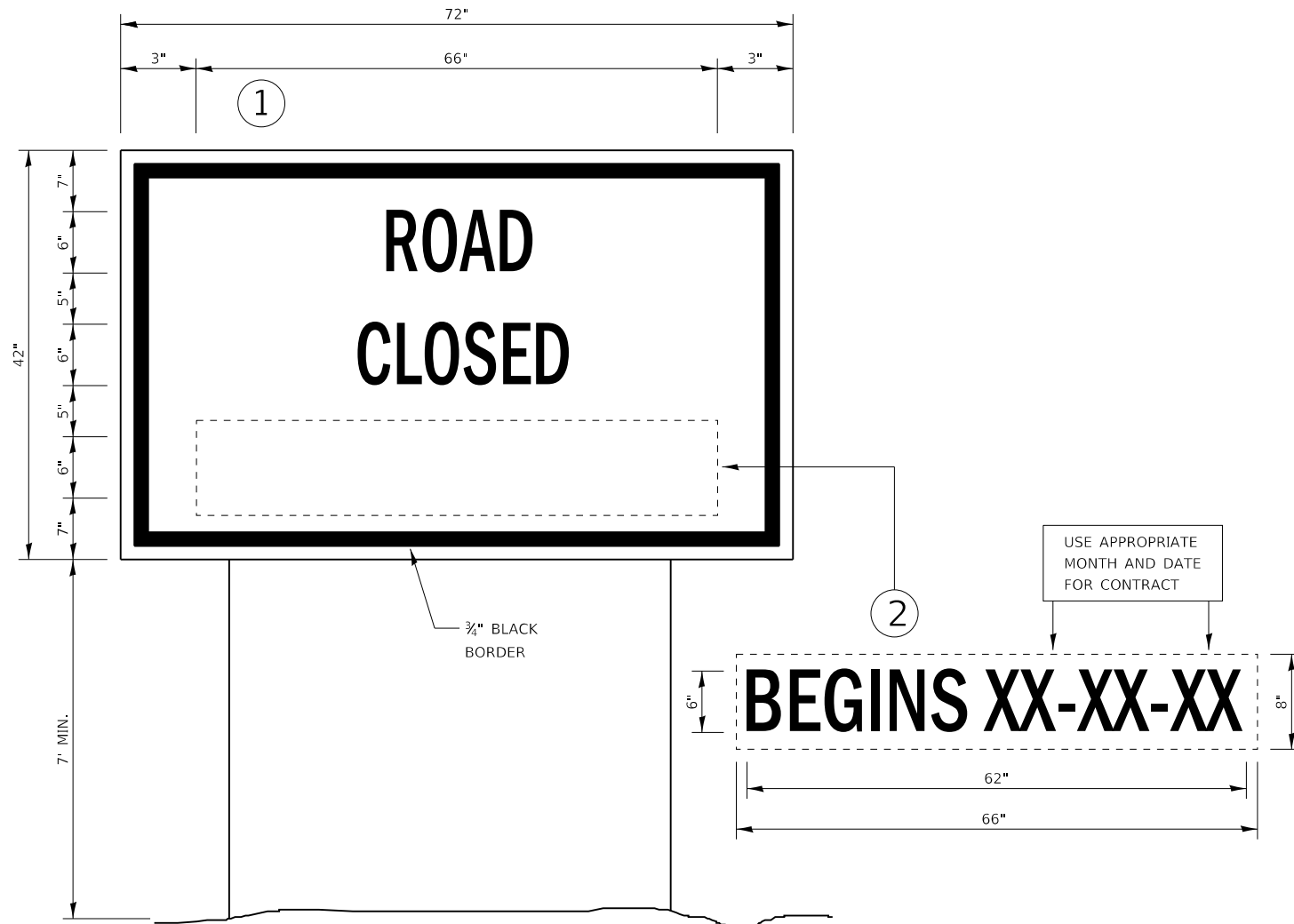
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	DRAWN - AJM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 8/28/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
 (SHEET 5 OF 6)**

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	48
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGNING

TEMPORARY INFORMATION SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

HRG PROJECT No.: 17087.01
 HRG PROJ CONTACT:
 FILE NAME: 08/28/24-ent-def.dgn
 PEN TABLE: 10/10/24.tbl



USER NAME = jroibu	DESIGNED - JMR	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - AJM	REVISED -
PLOT DATE = 8/28/2024	CHECKED - JMR	REVISED -
	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
 (SHEET 6 OF 6)**

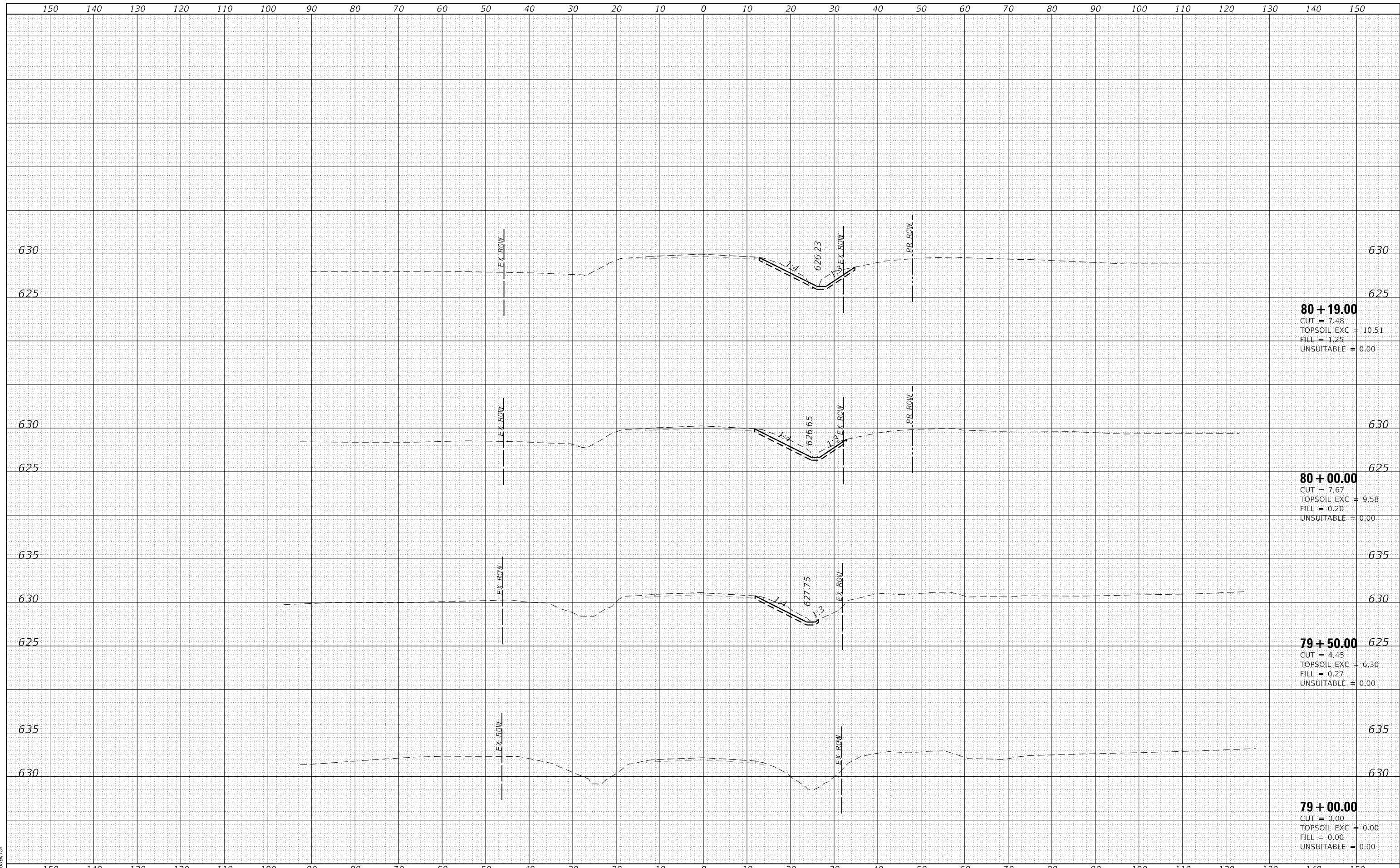
SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	49
CONTRACT NO. 87868				
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT No: 17087.0
 FILE NAME: 17087.0-11-13-XS.dgn
 PLOT DRIVER: jlpf.dwgprtcs9
 PEN TABLE: plottab.tbl



80 + 19.00
 CUT = 7.48
 TOPSOIL EXC = 10.51
 FILL = 1.25
 UNSUITABLE = 0.00

80 + 00.00
 CUT = 7.67
 TOPSOIL EXC = 9.58
 FILL = 0.20
 UNSUITABLE = 0.00

79 + 50.00
 CUT = 4.45
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 FILL = 0.27
 UNSUITABLE = 0.00

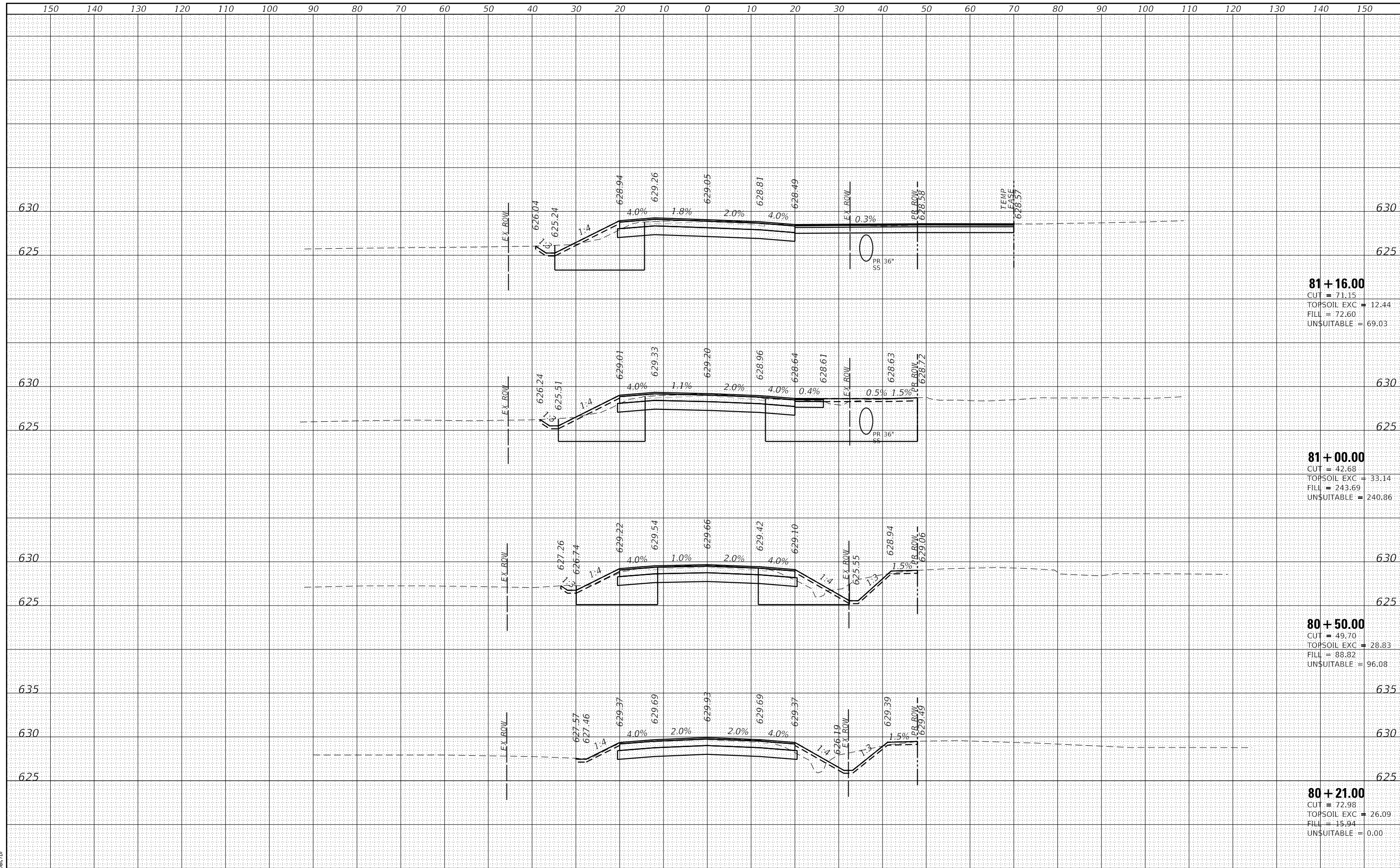
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 TOPSOIL EXC = 0.00
 FILL = 0.00
 UNSUITABLE = 0.00

HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = amiller DESIGNED - JMR DRAWN - AJM CHECKED - JMR DATE - 6/25/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MINKLER ROAD		F.A.U. RTE. 3792 SECTION 21-00053-00-BR COUNTY KENDALL CONTRACT NO. 87868	TOTAL SHEETS 62 SHEET NO. 50
	PLOT SCALE = 20.0000' / in. PLOT DATE = 9/24/2024	SCALE:		SHEET 1 OF 13 SHEETS	STA. 79+00.00 TO STA. 80+19.00	ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK AREAS CHECKED	

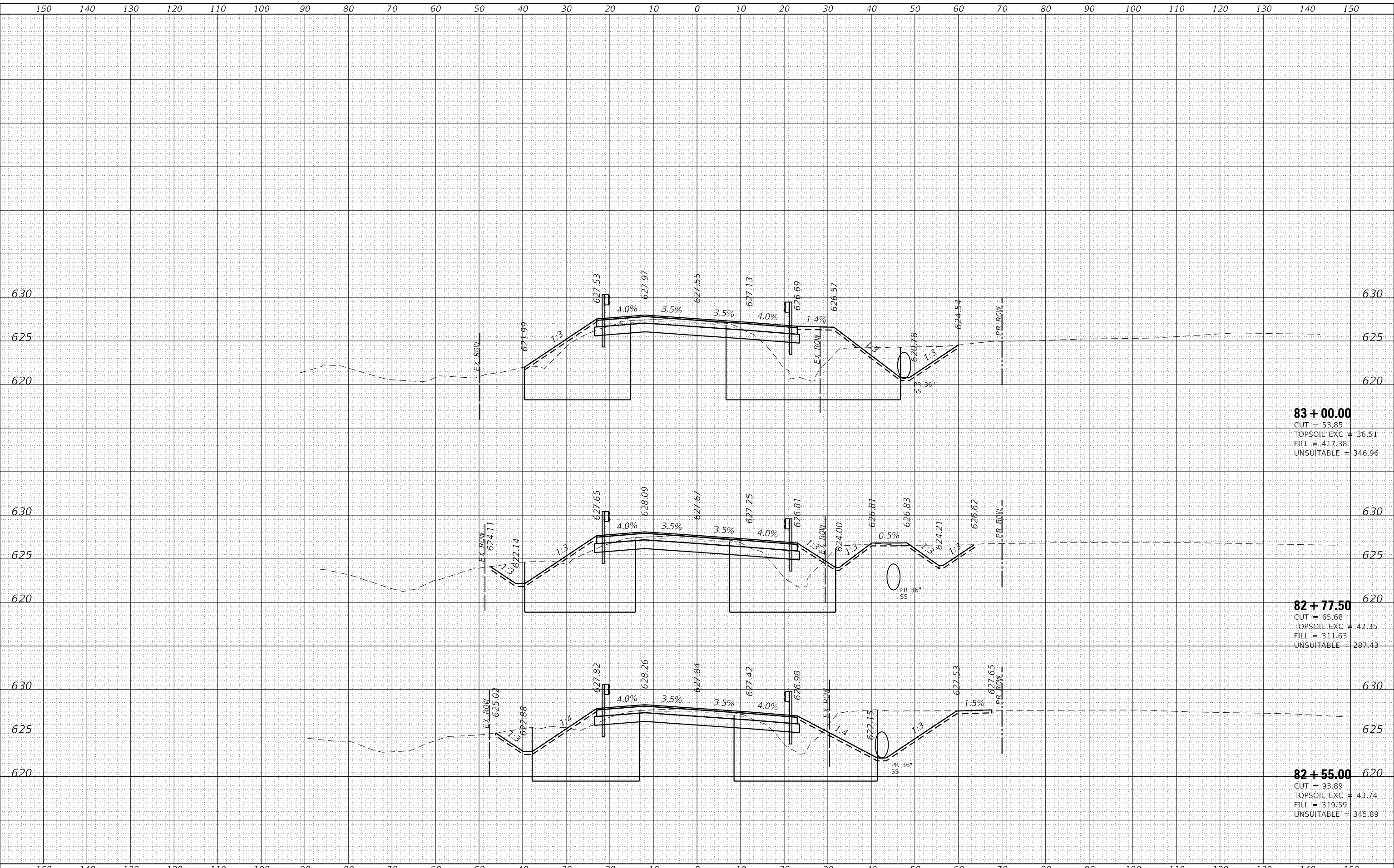
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 PLOT DRIVER: jcf.dwtc7g
 PEN TABLE: plotpen.tbl



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

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

HRG PROJECT No: 17087.0
 FILE NAME: 17087.0-21-00053-00-BR-XS.dgn
 PLOT DRIVER: il_def_dwgplc7c.dwg
 PEN TABLE: plottblpen.tbl



83 + 00.00
 CUT = 53.85
 TOPSOIL EXC = 36.51
 FILL = 417.38
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82 + 77.50
 CUT = 65.68
 TOPSOIL EXC = 42.35
 FILL = 311.63
 UNSUITABLE = 287.43

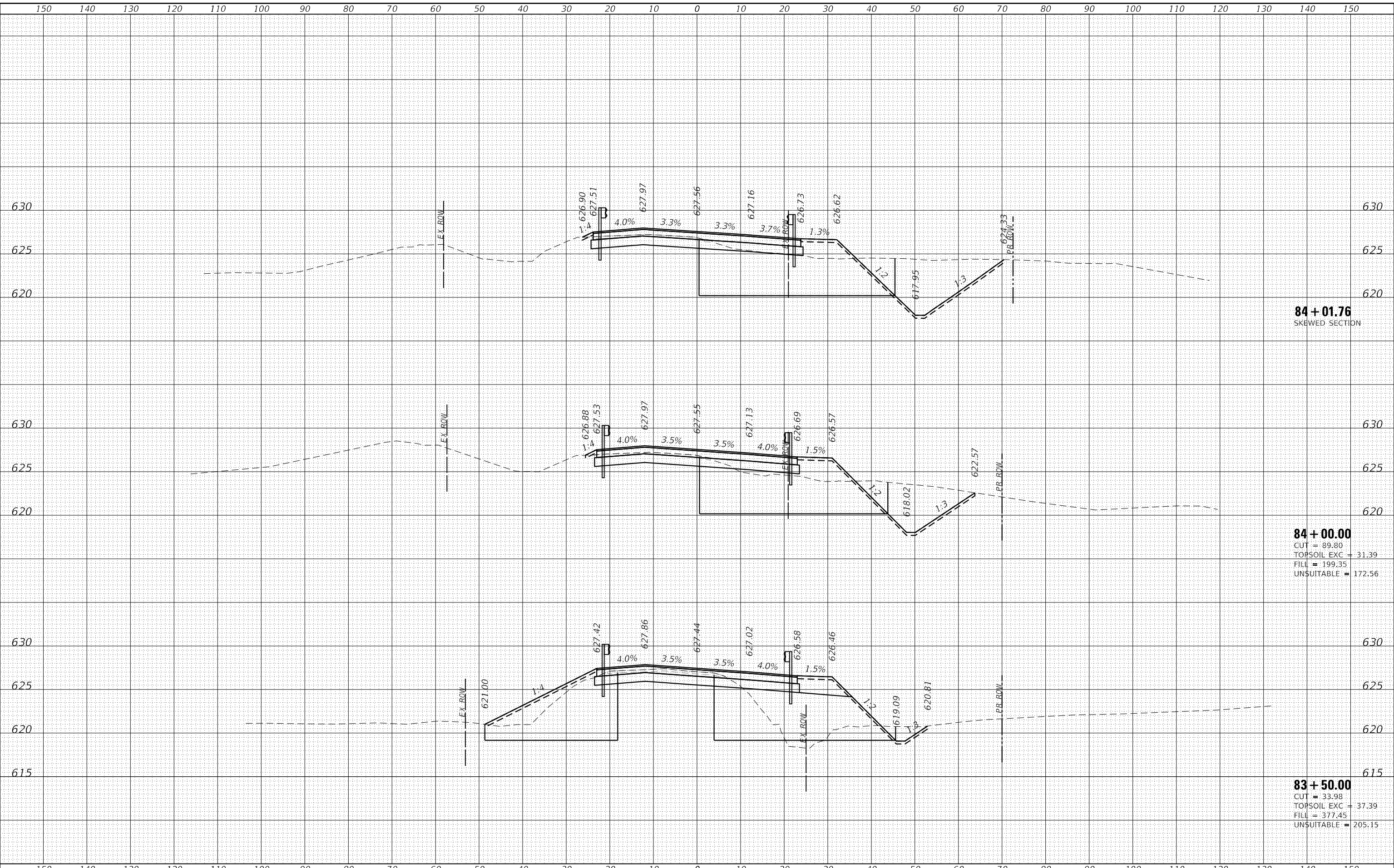
82 + 55.00
 CUT = 93.89
 TOPSOIL EXC = 43.74
 FILL = 319.59
 UNSUITABLE = 345.89

HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = amiller DESIGNED - JMR DRAWN - AJM CHECKED - JMR DATE - 6/25/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MINKLER ROAD	F.A.U. RTE. 3792 SECTION 21-00053-00-BR COUNTY KENDALL CONTRACT NO. 87868	TOTAL SHEETS 62 SHEET NO. 53
	PLOT SCALE = 20.0000' / in. PLOT DATE = 9/24/2024	SCALE: STA. 82+55.00 TO STA. 83+00.00			SHEET 4 OF 13 SHEETS	ILLINOIS FED. AID PROJECT

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

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

HRG PROJECT No: 17087.0
 FILE NAME: 17087.00-01-XS.dgn
 PLOT DRIVER: jldf.dwtc7c7g
 PEN TABLE: plottable.tbl

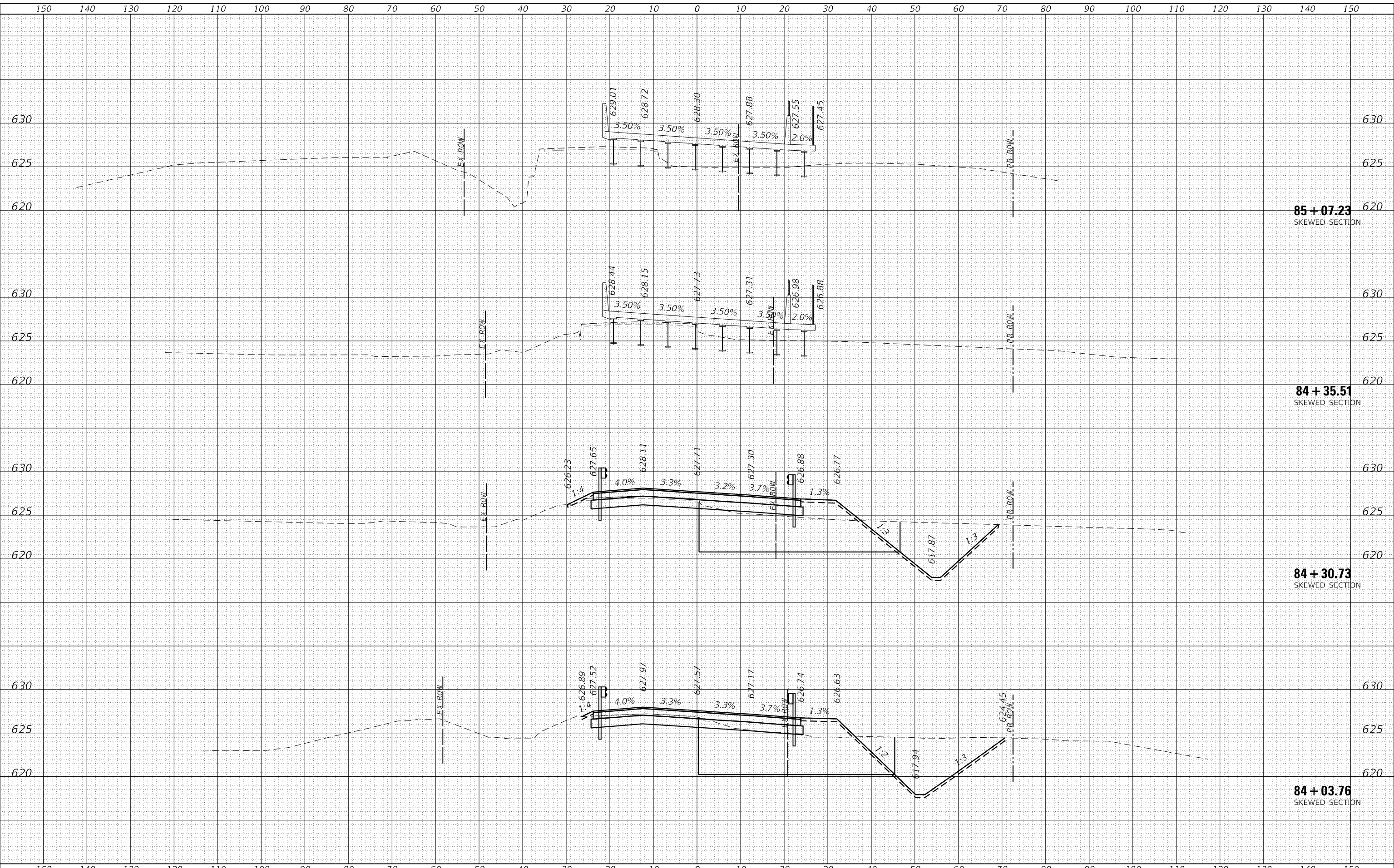


HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = amiller DESIGNED - JMR DRAWN - AJM CHECKED - JMR DATE - 6/25/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MINKLER ROAD	F.A.U. RTE. 3792 SECTION 21-00053-00-BR COUNTY KENDALL CONTRACT NO. 87868	TOTAL SHEETS 62 SHEET NO. 54
	PLOT SCALE = 20.0000' / in. PLOT DATE = 9/24/2024	SCALE: SHEET 5 OF 13 SHEETS STA. 83+50.00 TO STA. 84+01.76			ILLINOIS FED. AID PROJECT	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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DATE	
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ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
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HRG PROJECT No: 17087.0
 FILE NAME: 17087.0 - 21-00053-00-BR - XS.dgn
 PLOT DRIVER: il_def_dwg.plt
 PEN TABLE: plot10a.tbl

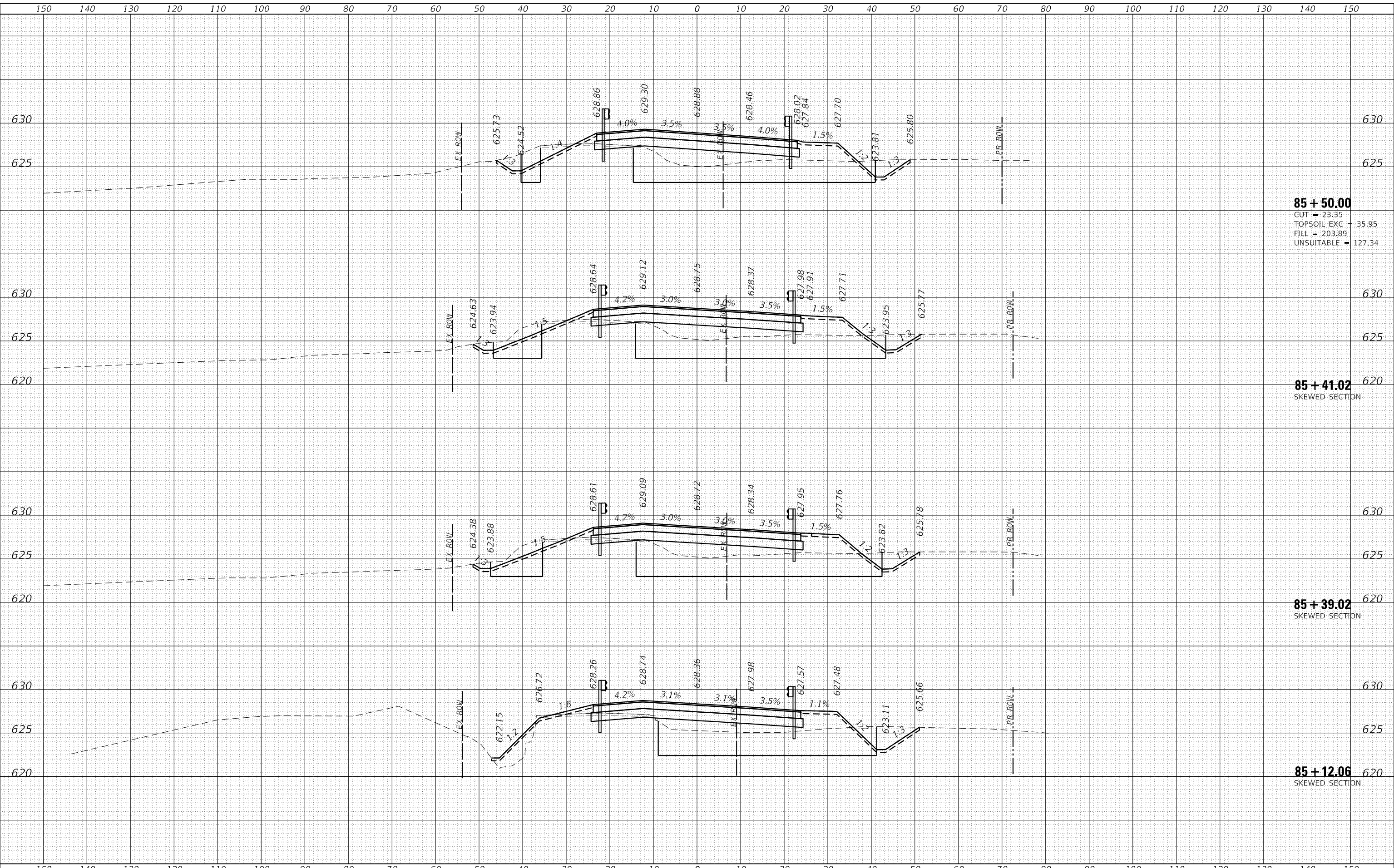


HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = amiller DESIGNED - JMR DRAWN - AJM CHECKED - JMR DATE - 6/25/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MINKLER ROAD	F.A.U. RTE. 3792 SECTION 21-00053-00-BR COUNTY KENDALL TOTAL SHEETS 62 SHEET NO. 55	CONTRACT NO. 87868 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 20.0000' / in. PLOT DATE = 9/24/2024	SCALE: SHEET 6 OF 13 SHEETS STA. 84+03.76 TO STA. 85+07.23				

BY	DATE

BY	DATE

HRC PROJECT No: 17087.0
 FILE NAME: 17087_001.dwg
 PLOT DRIVER: jldf.dwgplotcpg
 PEN TABLE: plottable.tbl

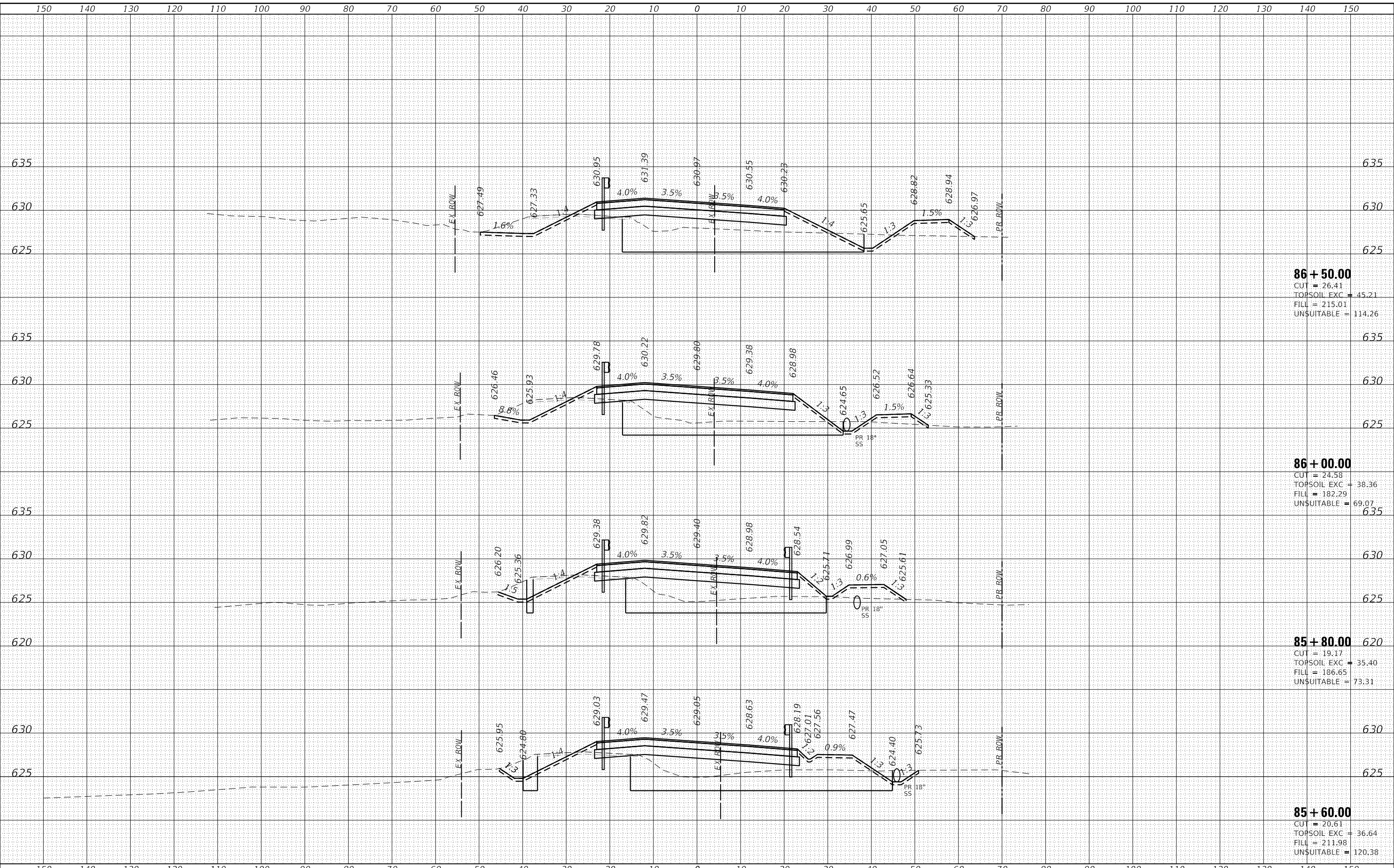


HRC Green.com Illinois Professional Design Firm #184-001322		USER NAME = amiller DESIGNED - JMR DRAWN - AJM CHECKED - JMR DATE - 6/25/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MINKLER ROAD	SCALE: SHEET 7 OF 13 SHEETS STA. 85+12.06 TO STA. 85+50.00	F.A.U. RTE. 3792 SECTION 21-00053-00-BR COUNTY KENDALL TOTAL SHEETS 62 SHEET NO. 56 CONTRACT NO. 87868	ILLINOIS FED. AID PROJECT
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
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PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

HRC PROJECT No: 17087.0
 FILE NAME: 17087.0-11-11-24-XS.dgn
 PLOT DRIVER: il_def_dwg.plt
 PEN TABLE: plot.tbl



86 + 50.00
 CUT = 26.41
 TOPSOIL EXC = 45.21
 FILL = 215.01
 UNSUITABLE = 114.26

86 + 00.00
 CUT = 24.58
 TOPSOIL EXC = 38.36
 FILL = 182.29
 UNSUITABLE = 69.07

85 + 80.00
 CUT = 19.17
 TOPSOIL EXC = 35.40
 FILL = 186.65
 UNSUITABLE = 73.31

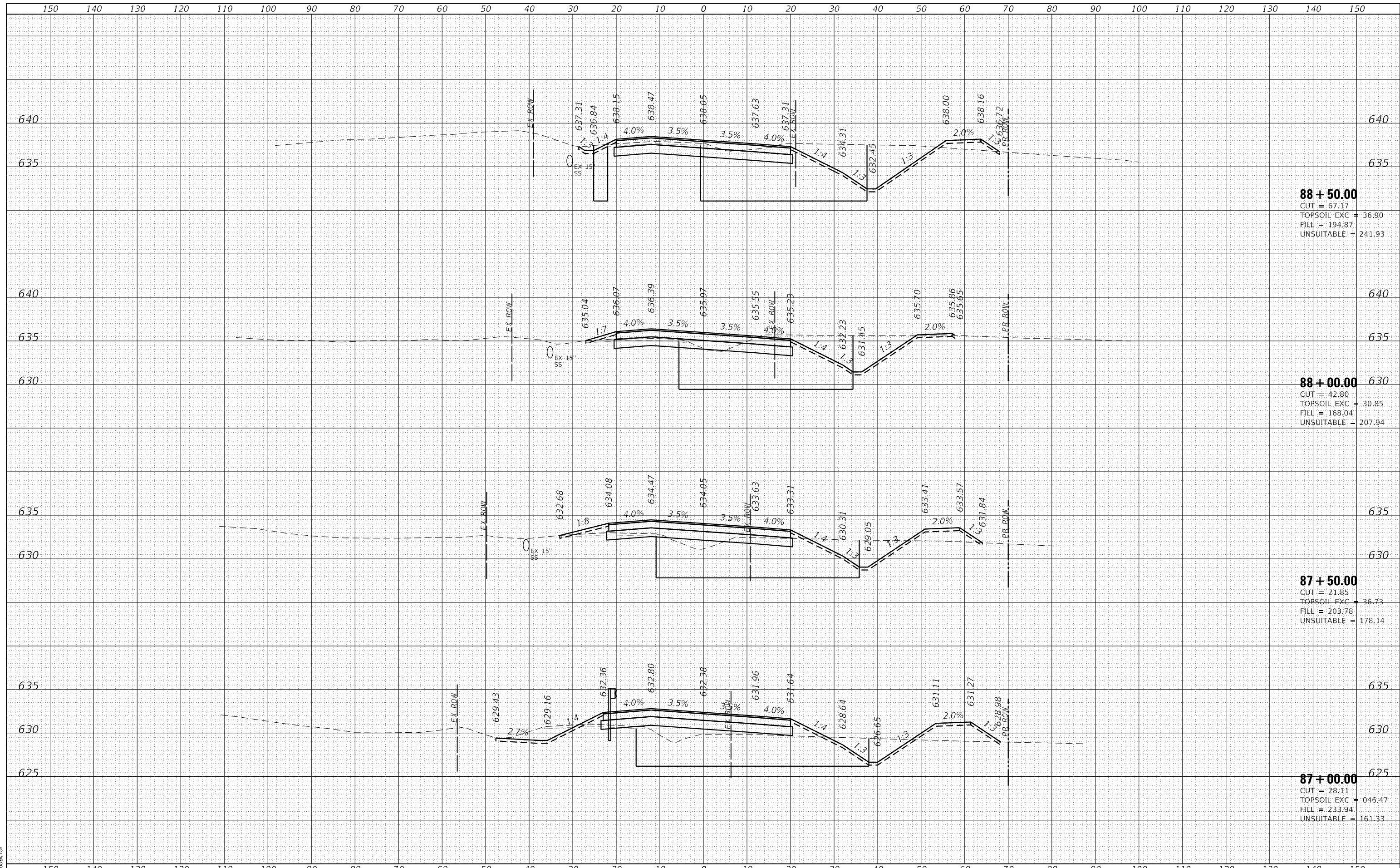
85 + 60.00
 CUT = 20.61
 TOPSOIL EXC = 36.64
 FILL = 211.98
 UNSUITABLE = 120.38

	USER NAME = amiller DESIGNED - JMR DRAWN - AJM CHECKED - JMR DATE - 6/25/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MINKLER ROAD	F.A.U. RTE. 3792 SECTION 21-00053-00-BR COUNTY KENDALL CONTRACT NO. 87868	TOTAL SHEETS 62 SHEET NO. 57
	PLOT SCALE = 20.0000' / in. PLOT DATE = 9/24/2024	SCALE: SHEET 8 OF 13 SHEETS STA. 85+60.00 TO STA. 86+50.00			ILLINOIS FED. AID PROJECT	

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

HRG PROJECT No: 17087.0
 FILE NAME: 17087.0-21-00053-00-BR-XS.dgn
 PLOT DRIVER: il_def_dwg.plt
 PEN TABLE: plot.tbl



88 + 50.00
 CUT = 67.17
 TOPSOIL EXC = 36.90
 FILL = 194.87
 UNSUITABLE = 241.93

88 + 00.00
 CUT = 42.80
 TOPSOIL EXC = 30.85
 FILL = 168.04
 UNSUITABLE = 207.94

87 + 50.00
 CUT = 21.85
 TOPSOIL EXC = 36.73
 FILL = 203.78
 UNSUITABLE = 178.14

87 + 00.00
 CUT = 28.11
 TOPSOIL EXC = 046.47
 FILL = 233.94
 UNSUITABLE = 161.33



USER NAME = amiller	DESIGNED - JMR	REVISED -
	DRAWN - AJM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 9/24/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MINKLER ROAD**

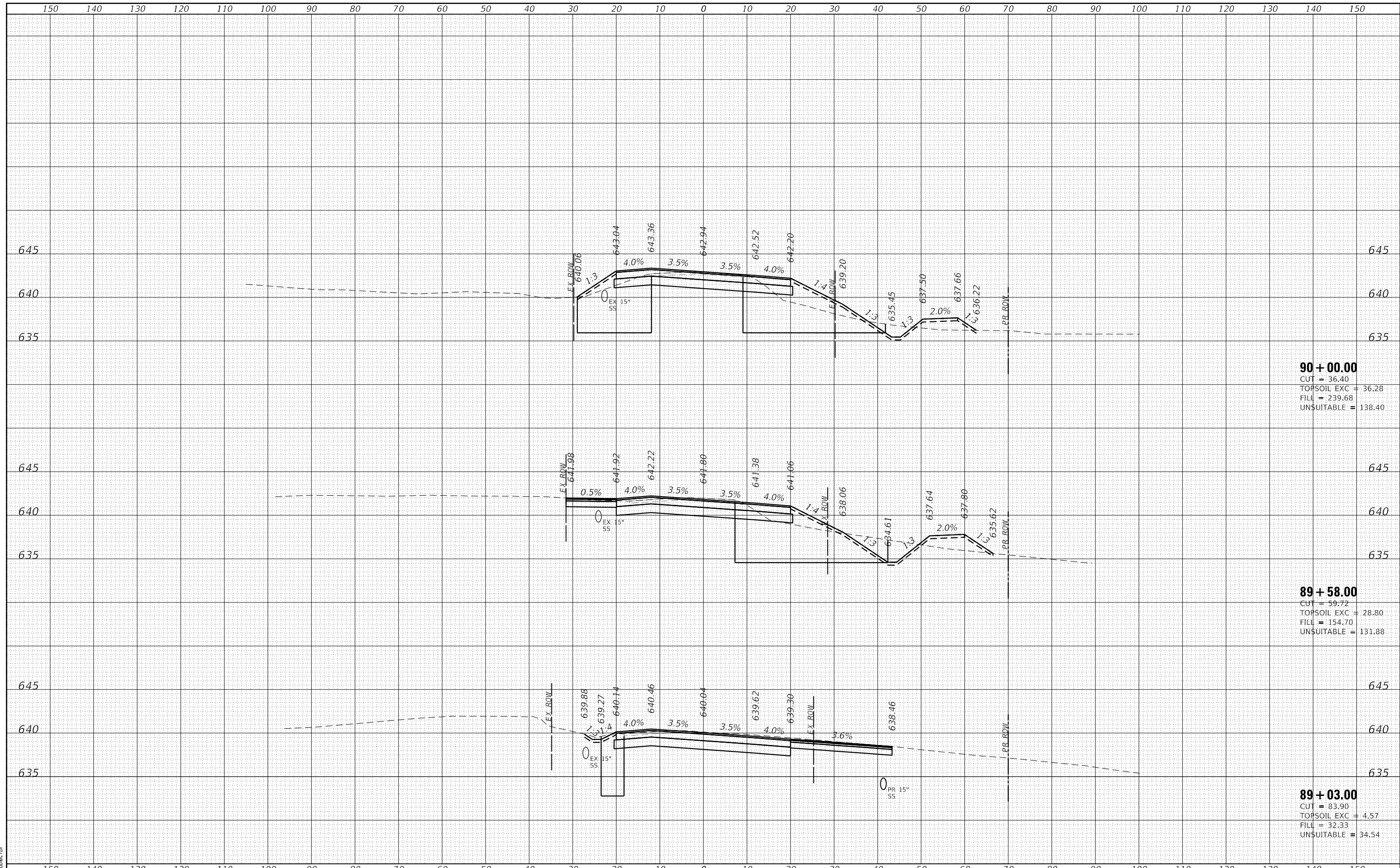
SCALE: SHEET 9 OF 13 SHEETS STA. 87+00.00 TO STA. 88+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	58
			CONTRACT NO. 87868	
		ILLINOIS	FED. AID PROJECT	

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK NO.	
AREAS CHECKED	

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

HRG PROJECT No: 17087.0
 FILE NAME: 17087.001-11-XS.dgn
 PLOT DRIVER: jrcf.dwgpcr7g
 PEN TABLE: plotpen.tbl



90 + 00.00
 CUT = 36.40
 TOPSOIL EXC = 36.28
 FILL = 239.68
 UNSUITABLE = 138.40

89 + 58.00
 CUT = 59.72
 TOPSOIL EXC = 28.80
 FILL = 154.70
 UNSUITABLE = 131.88

89 + 03.00
 CUT = 83.90
 TOPSOIL EXC = 4.57
 FILL = 32.33
 UNSUITABLE = 34.54



USER NAME = amiller	DESIGNED - JMR	REVISED -
	DRAWN - AJM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMR	REVISED -
PLOT DATE = 9/24/2024	DATE - 6/25/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MINKLER ROAD**

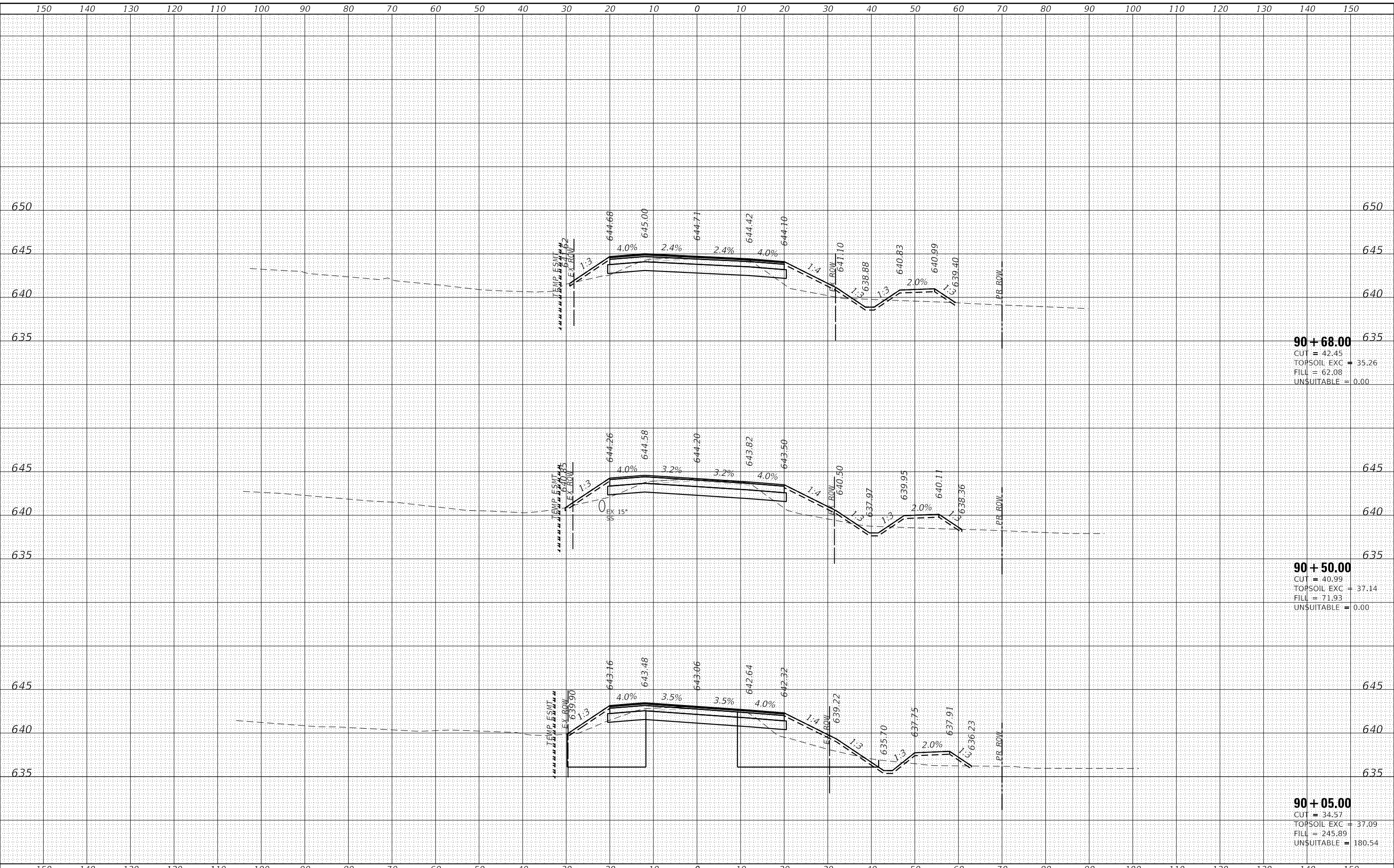
SCALE: SHEET 10 OF 13 SHEETS STA. 89+03.00 TO STA. 90+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3792	21-00053-00-BR	KENDALL	62	59
			CONTRACT NO. 87868	
ILLINOIS FED. AID PROJECT				

BY		DATE
FINISHED SURVEY	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

BY		DATE
ORIGINAL SURVEY	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

HRC PROJECT No: 17087.0
 FILE NAME: 17087.001 - 17087.005.dgn
 PLOT DRIVER: jrcf.dwgplc7c9
 PEN TABLE: plot08tbl.tbl



90 + 68.00
 CUT = 42.45
 TOPSOIL EXC = 35.26
 FILL = 62.08
 UNSUITABLE = 0.00

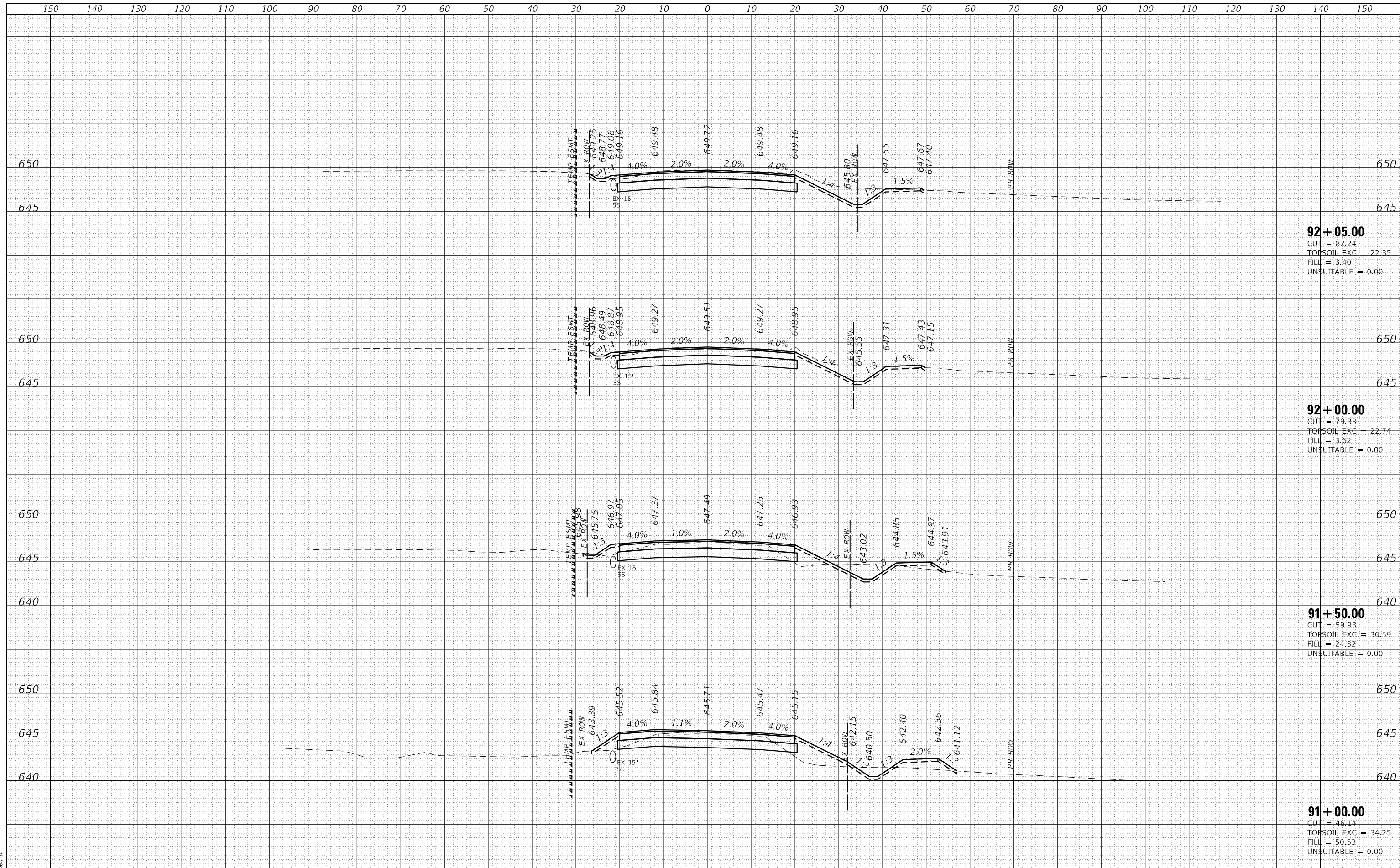
90 + 50.00
 CUT = 40.99
 TOPSOIL EXC = 37.14
 FILL = 71.93
 UNSUITABLE = 0.00

90 + 05.00
 CUT = 34.57
 TOPSOIL EXC = 37.09
 FILL = 245.89
 UNSUITABLE = 180.54

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK AREAS CHECKED	
NO.	

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

HRG PROJECT No: 17087.0
 FILE NAME: 17087.0 - 21-00053-00-BR - XS.dgn
 PLOT DRIVER: jpl\of\dwgplotc9g
 PEN TABLE: plottabtbl.tbl



92 + 05.00
 CUT = 82.24
 TOPSOIL EXC = 22.35
 FILL = 3.40
 UNSUITABLE = 0.00

92 + 00.00
 CUT = 79.33
 TOPSOIL EXC = 22.74
 FILL = 3.62
 UNSUITABLE = 0.00

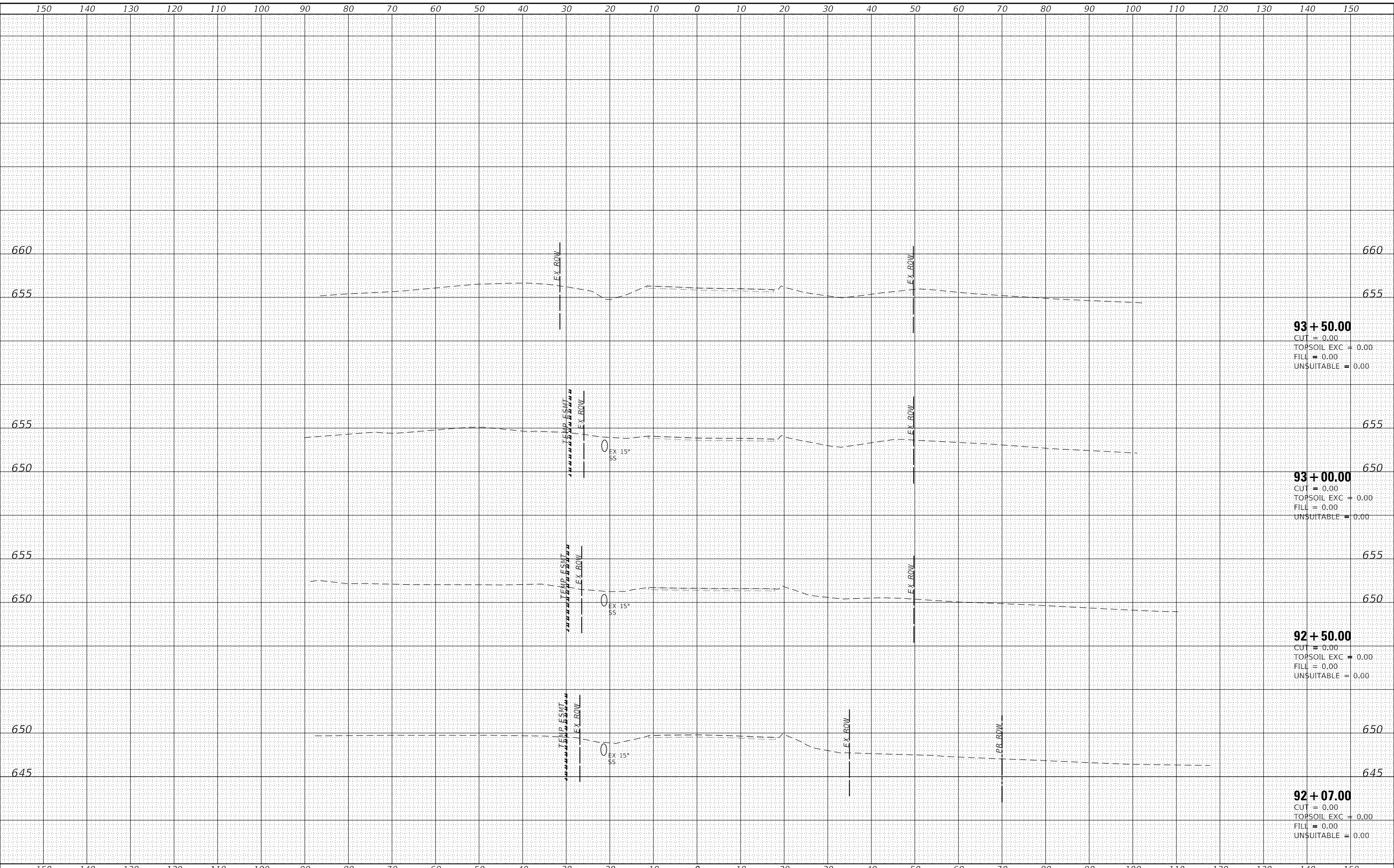
91 + 50.00
 CUT = 59.93
 TOPSOIL EXC = 30.59
 FILL = 24.32
 UNSUITABLE = 0.00

91 + 00.00
 CUT = 46.14
 TOPSOIL EXC = 34.25
 FILL = 50.53
 UNSUITABLE = 0.00

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

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

HRC PROJECT No: 17087.d
 FILE NAME: 17087.dwg
 PLOT DRIVER: jlpf.dwgpcr7g
 PEN TABLE: p1010tbl.tbl



93 + 50.00
 CUT = 0.00
 TOPSOIL EXC = 0.00
 FILL = 0.00
 UNSUITABLE = 0.00

93 + 00.00
 CUT = 0.00
 TOPSOIL EXC = 0.00
 FILL = 0.00
 UNSUITABLE = 0.00

92 + 50.00
 CUT = 0.00
 TOPSOIL EXC = 0.00
 FILL = 0.00
 UNSUITABLE = 0.00

92 + 07.00
 CUT = 0.00
 TOPSOIL EXC = 0.00
 FILL = 0.00
 UNSUITABLE = 0.00

	USER NAME = amiller DESIGNED - JMR DRAWN - AJM CHECKED - JMR DATE - 6/25/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS MINKLER ROAD	F.A.U. RTE. 3792 SECTION 21-00053-00-BR COUNTY KENDALL CONTRACT NO. 87868	TOTAL SHEETS 62 SHEET NO. 62
	PLOT SCALE = 20.0000' / in. PLOT DATE = 9/24/2024	SCALE: SHEET 13 OF 13 SHEETS STA. 92+07.00 TO STA. 93+50.00			ILLINOIS FED. AID PROJECT	