

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
ILLINOIS SPECIAL BRIDGE PROGRAM
MS 2300 (RIVER ROAD)
SECTION 21-00020-00-BR
PROJECT DB9I(402)
VILLAGE OF SENECA
LASALLE COUNTY
C-93-001-26

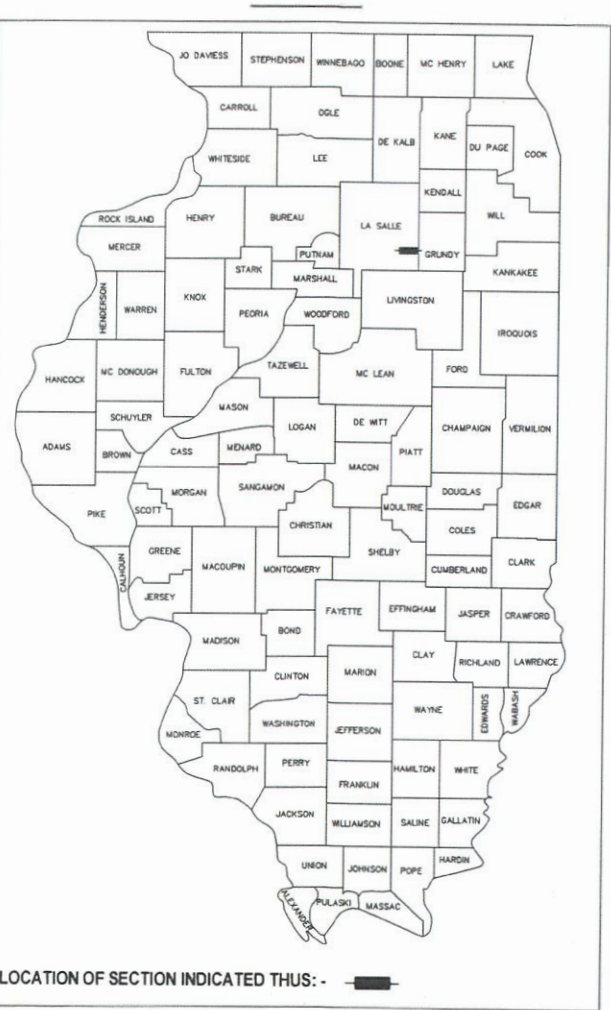
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	21-00020-00-BR	LASALLE	34	1
FED. ROAD DIST. NO. --	ILLINOIS	CONTRACT NO. 87882		

INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
515001-04	NAME PLATE FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
631032-10	TRAFFIC BARRIER TERMINAL, TYPE 6A
701901-10	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICE FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL HIGHWAYS



LOCATION OF SECTION INDICATED THUS: -

FUNCTIONAL CLASSIFICATION

MAJOR COLLECTOR
ADT = 1600 (2020)
POSTED SPEED 45 MPH
DESIGN SPEED 45 MPH

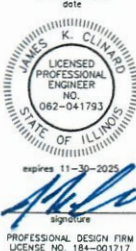
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 27, 2025
[Signature]
PRESIDENT, VILLAGE OF SENECA

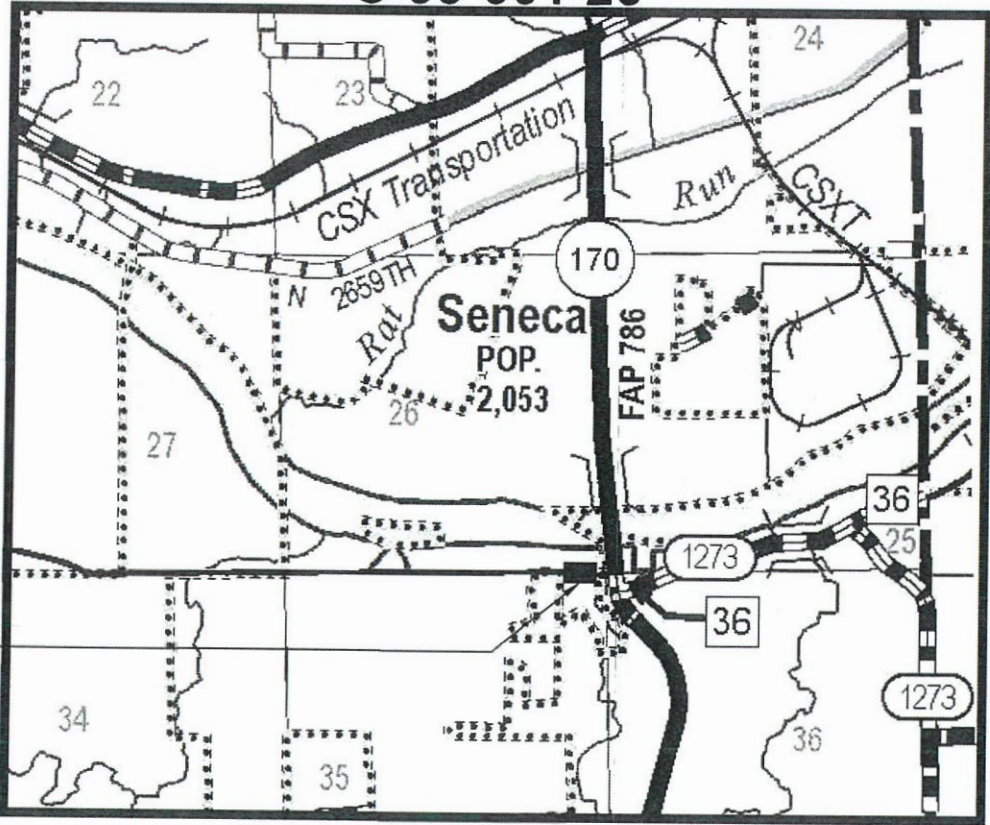
April 10, 2025
[Signature]
DISTRICT LOCAL ROADS AND STREETS ENGINEER

RELEASED April 10, 2025
FOR BID
BASED ON [Signature]
LIMITED
REVIEW REGION 2 ENGINEER

3/27/25

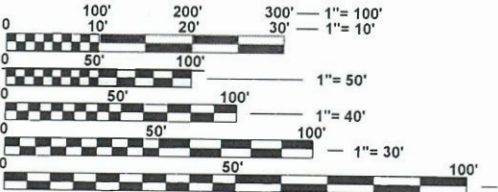


PROJECT
LOCATION
STA 17+16.39
PROPOSED SN 050-7800
EXISTING SN 050-3050



PROJECT LOCATION MAP

NET LENGTH OF SECTION 257' (0.049 MILES)
GROSS LENGTH OF SECTION 257' (0.049 MILES)



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 EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 87882

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Drawing Name: G:\Users\111111441-00-Seneca-River Road Bridge Replacement- 2021\CAD\BRIDGE-REPLACEMENT-PLANS\02--NOTES.dwg Last Modified: Wednesday, March 26, 2025 6:27:24 PM Plotted On: Friday, March 28, 2025 9:54:19 AM by Jim Cloward

GENERAL NOTES

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

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

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

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

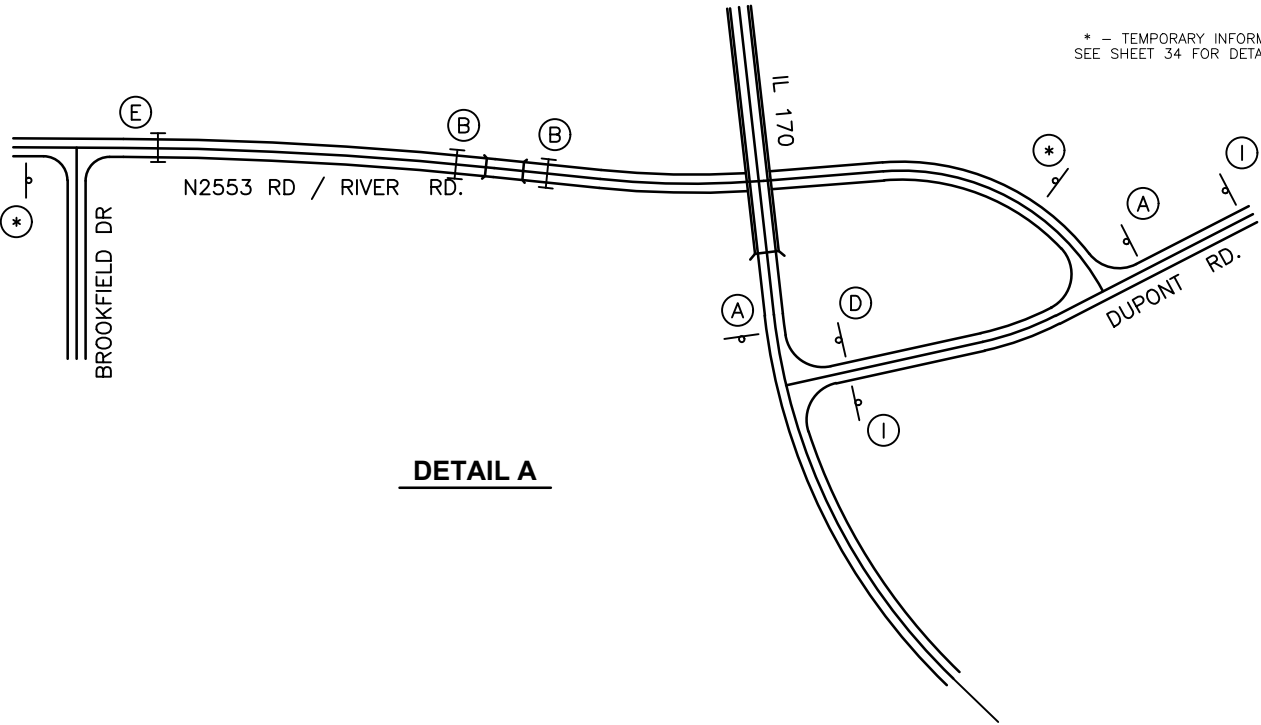
GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

AT&T
COMED
MTCO COMMUNICATIONS
NICOR GAS

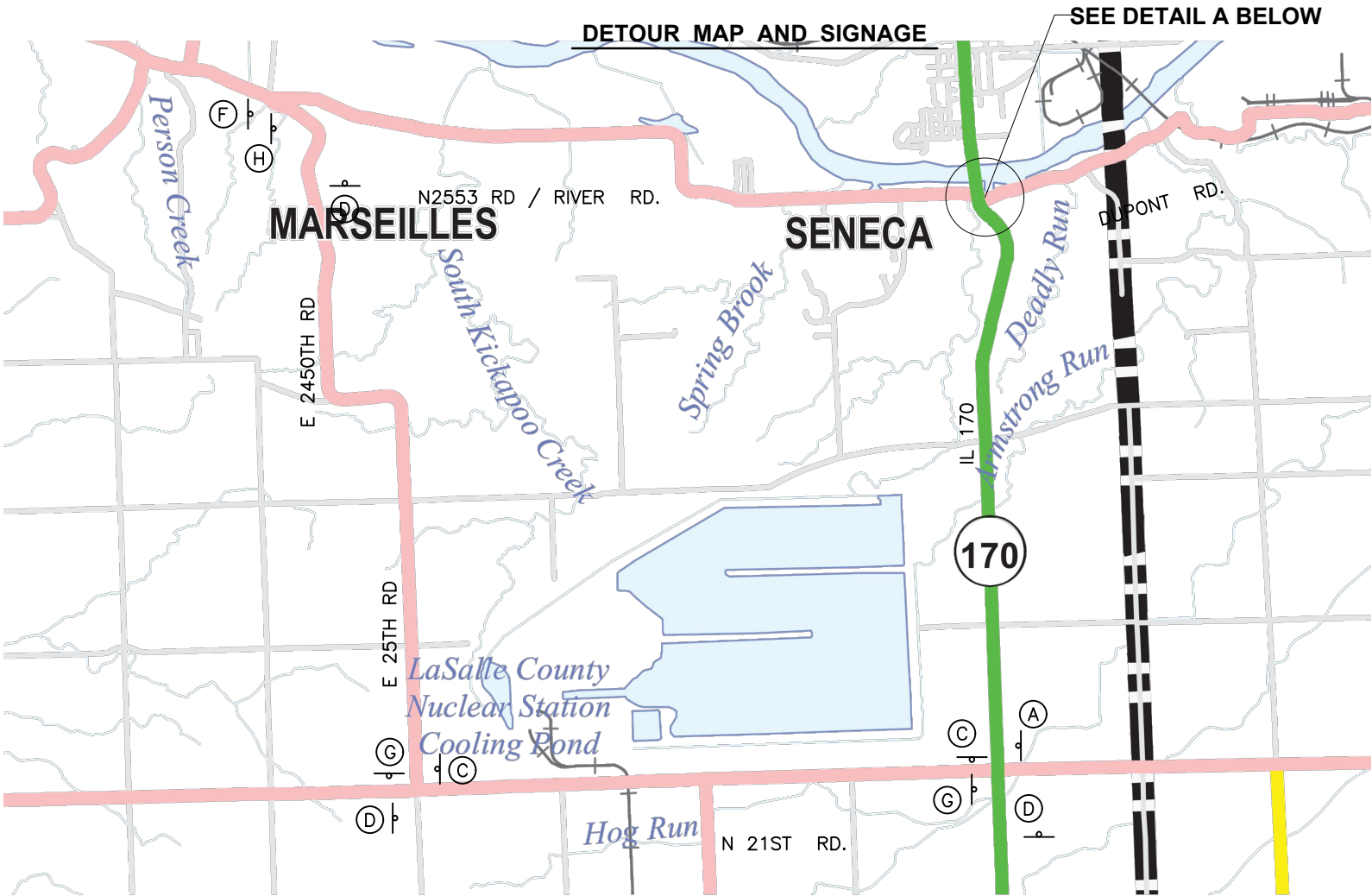
COMMITMENTS

THE CONTRACTOR SHALL COORDINATE WITH POLICE, FIRE, EMS, SCHOOLS, USPS, IDOT DISTRIC 3, THE CITY OF MARSEILLES, AND THE LASALLE COUNTY HIGHWAY DEPARTMENT 48 HOURS PRIOR TO CLOSURE OF THE ROAD.

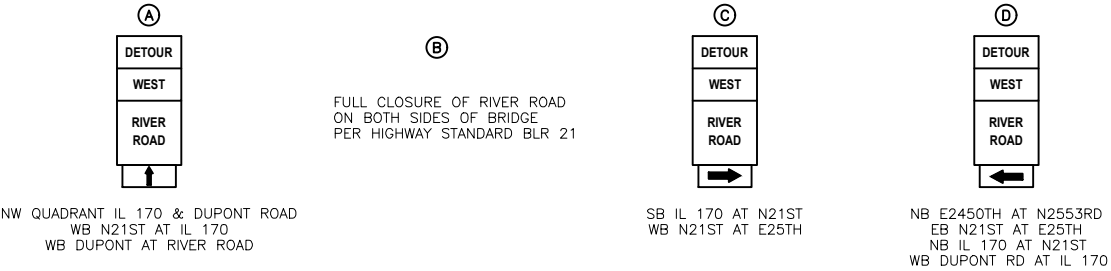


DETAIL A

* - TEMPORARY INFORMATION SIGNS
SEE SHEET 34 FOR DETAILS (2 REQ'D)

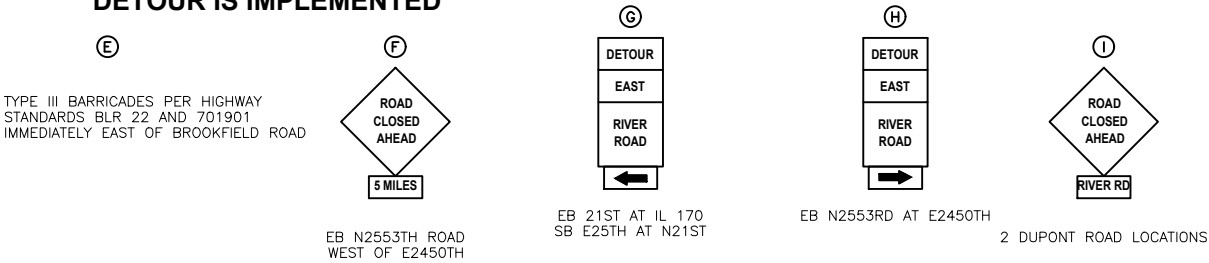


SEE DETAIL A BELOW



DETOUR SIGNS TO BE FLOURESCENT ORANGE AND 48X48

NOTIFY DISTRICT 3 OPERATIONS STAFF 48 HOURS BEFORE DETOUR IS IMPLEMENTED



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CHECKED BY: JKC					
DATE: 10/2021					



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

GENERAL NOTES

CONSTRUCTION PLANS

CONTRACT NO. 87882

CURRENT AS OF: 03/24/2025	
SCALE: AS NOTED	SHEET 2
FILE NO.: 111441.00 Y-	OF 34

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Drawing Name: G:\Users\11111441-00-Seneca-River Road Bridge Replacement- 2021\CAD\BRIDGE-REPLACEMENT-PLANS\03-005-SQ0.dwg Last Modified: Friday, March 21, 2025 9:13:58 AM Plotted On: Thursday, March 27, 2025 12:01:54 PM by Jim Clifard

					CONSTR. CODE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010 050-7800
	20400800	FURNISHED EXCAVATION	CU YD	144	144
	25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	22	22
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	22	22
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	22	22
	25100630	EROSION CONTROL BLANKET	SQ YD	50	50
	28100107	STONE RIPRAP, CLASS A4	SQ YD	44	44
	28200200	FILTER FABRIC	SQ YD	44	44
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	16	16
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	79	79
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	90	90
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	10	10
	40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1	1
	40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	36	36
	44000100	PAVEMENT REMOVAL	SQ YD	88	88

* SPECIALTY ITEM

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DATE: 10/2021				



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RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

SUMMARY OF QUANTITIES

CONSTRUCTION
PLANS

CONTRACT NO. 87882

CURRENT AS OF: 03/24/2025	
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FILE NO.: 111441.00 Y-	OF 34

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					CONSTR. CODE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010 050-7800
	44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	149	149
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	7	7
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
	50200100	STRUCTURE EXCAVATION	CU YD	374	374
	50300225	CONCRETE STRUCTURES	CU YD	28.7	28.7
	50300280	CONCRETE ENCASEMENT	CU YD	2.1	2.1
	50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1876	1876
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3140	3140
	* 50901050	STEEL RAILING, TYPE SM	FOOT	176	176
	51201400	FURNISHING STEEL PILES HP10X42	FOOT	500	500
	51202305	DRIVING PILES	FOOT	500	500
	51204650	PILE SHOES	EACH	13	13
	51500100	NAME PLATES	EACH	1	1
	58100210	FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	208	208

* SPECIALTY ITEM

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SECTION 21-00020-00-BR

SUMMARY OF QUANTITIES

CONSTRUCTION
PLANS

CONTRACT NO. 87882

CURRENT AS OF: 03/24/2025	
SCALE: AS NOTED	SHEET 4
FILE NO.: 111441.00 Y-	OF 34

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					CONSTR. CODE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0010 050-7800
	58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	402	402
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	26	26
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
	63200310	GUARDRAIL REMOVAL	FOOT	430	430
	67100100	MOBILIZATION	L SUM	1	1
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1364	1364
*	78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	6	6
	X5110304	SLOPE WALL (SPECIAL)	SQ YD	28	28
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
#	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	
#	Z0076600	TRAINEES	HOUR	500	

* SPECIALTY ITEM # 0042

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VILLAGE OF SENECA
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SECTION 21-00020-00-BR

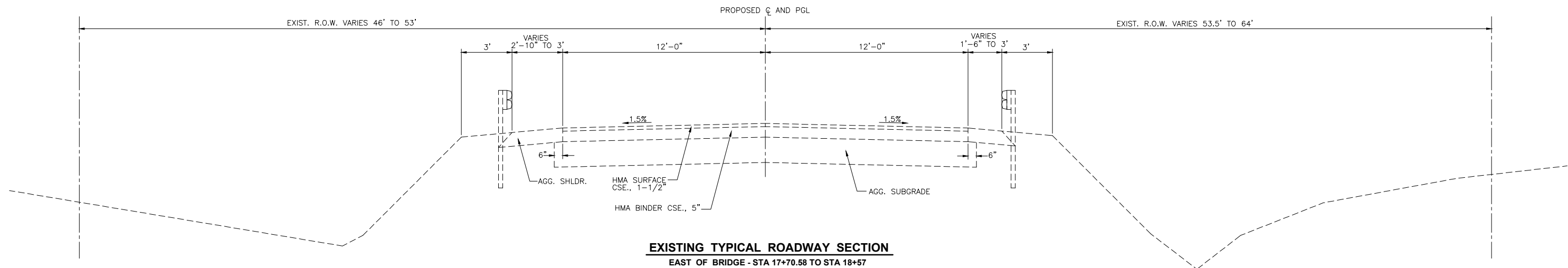
SUMMARY OF QUANTITIES

CONSTRUCTION
PLANS

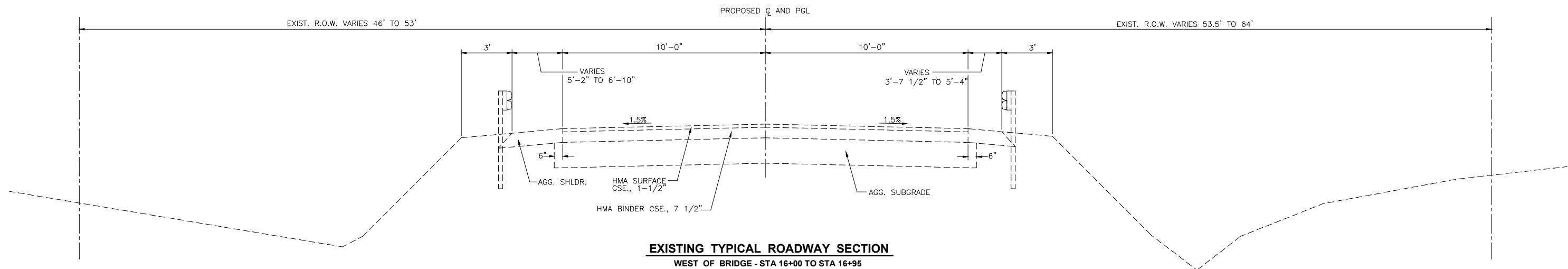
CONTRACT NO. 87882

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FILE NO.: 111441.00 Y-	OF 34

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Last Modified: Thursday, March 20, 2025 2:23:13 PM
Plotted On: Thursday, March 20, 2025 2:24:29 PM
by Jim Clinard



EXISTING TYPICAL ROADWAY SECTION
EAST OF BRIDGE - STA 17+70.58 TO STA 18+57



EXISTING TYPICAL ROADWAY SECTION
WEST OF BRIDGE - STA 16+00 TO STA 16+95

CONTRACT NO. 87882

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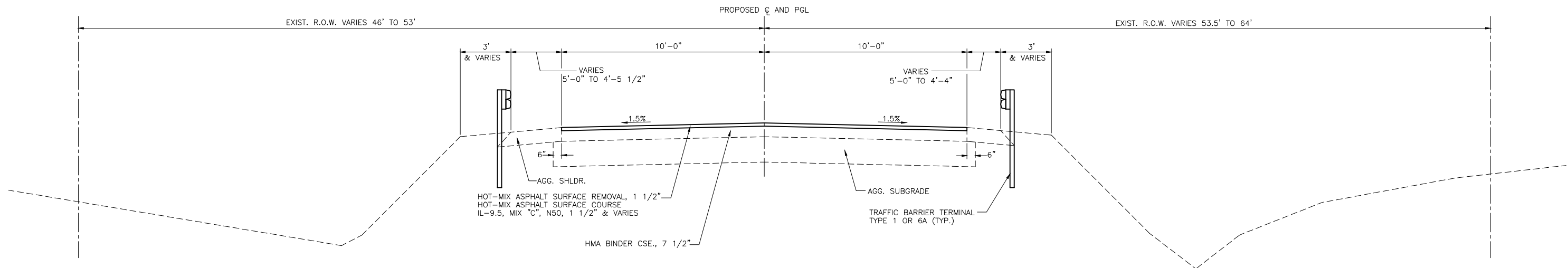
VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

TYPICAL SECTIONS
STRUCTURE NO. SN 050-7800

CONSTRUCTION
PLANS

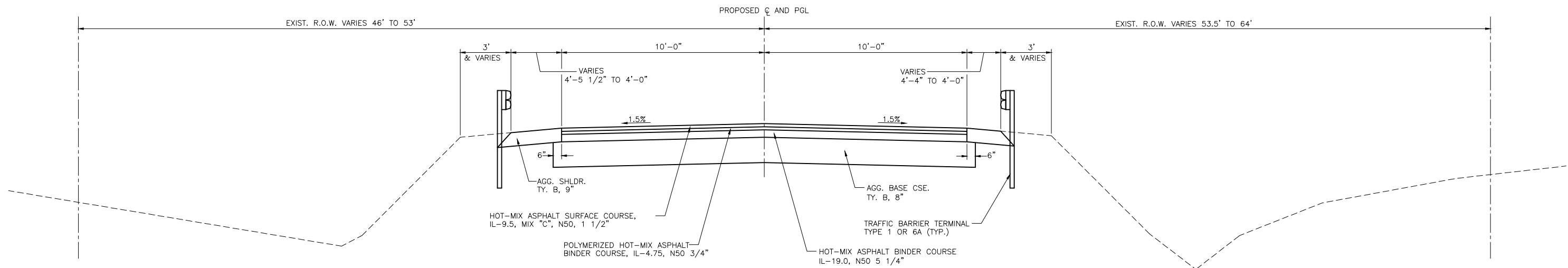
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FILE NO.: 111441.00 Y-	OF 34

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By: Jim Cloward



PROPOSED TYPICAL ROADWAY SECTION
STA 16+00 TO STA 16+66.88

HMA MIXTURE REQUIREMENT TABLE			
LOCATIONS:	STA 16+66.88 TO 16+81.88	STA 16+66.88 TO 16+81.88	ENTIRE PROJECT
MIXTURE USE(S):	HMA	HMA	HMA
	BINDER	BINDER	SURFACE
BINDER GRADE (PG):	SBS PG 70-28	PG 70-28	PG 70-28
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION:	IL 4.75	IL 19.0	SMA 9.5
(MIXTURE GRADATION)			
FRICTION AGGREGATE:			MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA
SUBLOT SIZE:	NA	NA	NA
DENSITY TEST METHOD:	NUCLEAR	NUCLEAR	NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO		NO



PROPOSED TYPICAL ROADWAY SECTION
STA 16+66.88 TO STA 16+81.88

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VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

TYPICAL SECTIONS
STRUCTURE NO. SN 050-7800

CONSTRUCTION
PLANS

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Last Modified: Thursday, March 20, 2025 2:31:06 PM
Plotted On: Thursday, March 20, 2025 3:15:24 PM
By: Jim Olinard

PAVING SCHEDULE							
	AGGREGATE BASE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL- 19.0, N50	POLYMERIZED HOT- MIX ASPHALT BINDER COURSE, IL- 4.75, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	AGGREGATE SHOULDERS, TYPE B
LOCATION	TON	POUND	POUND	TON	TON	TON	TON
STA 16+00 TO STA 16+66.88	---	---	82	---	---	---	---
STA 16+66.88 TO STA 16+81.88	15.9	79	8	---	---	---	---
STA 16+00 TO STA 16+81.88	---	---	---	9.8	1.4	15.3	7
BRIDGE	---	---	---	---	---	21.0	---
TOTAL	16	79	90	10	1	36	7

PAVEMENT MARKING SCHEDULE		
	PAINT PAVEMENT MARKING - LINE 4" *	
LOCATION	WHITE	YELLOW
LT STA 16+00 TO STA 17+70.5	341	---
RT STA 16+00 TO STA 17+70.5	341	---
CENTERLINE STA 16+00 TO STA 17+70.5 (DOUBLE YELLOW)	---	682
SUBTOTAL	682	682
TOTAL	1364	

GUARDRAIL & GUARDRAIL MARKER SCHEDULE					
	GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE B
LOCATION	FOOT	EACH	EACH	EACH	EACH
LT STA 15+97.5 TO EXISTING BRIDGE	101	---	---	---	---
LT EXISTING BRIDGE TO STA 18+55	114	---	---	---	---
RT STA 15+97 TO EXISTING BRIDGE	101	---	---	---	---
RT EXISTING BRIDGE TO STA 18+55	114	---	---	---	---
LT STA 15+95 TO NEW BRIDGE	---	1	1	1	---
LT NEW BRIDGE TO STA 18+57	---	1	1	1	---
RT STA 15+94 TO NEW BRIDGE	---	1	1	1	---
RT NEW BRIDGE TO STA 18+57	---	1	1	1	---
LT STA 15+95 TO STA 18+57	---	---	---	---	3
RT STA 15+94 TO STA 18+57	---	---	---	---	3
TOTAL	430	4	4	4	6

SURFACE REMOVAL SCHEDULE	
	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
LOCATION	SQ YD
STA 16+00 TO STA 16+66.88	148.8
TOTAL	149

PAVEMENT REMOVAL SCHEDULE	
	PAVEMENT REMOVAL
LOCATION	SQ YD
STA 16+66.88 TO STA 16+95.59	63.7
STA 17+43.47 TO STA 17+50.88	24.3
TOTAL	88

EROSION CONTROL SCHEDULE					
	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET
LOCATION	ACRE	POUND	POUND	POUND	SQ YD
WEST BRIDGE APPROACH	0.25	22	22	22	50
TOTAL	0.25	22	22	22	50

CONTRACT NO. 87882

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ILLINOIS

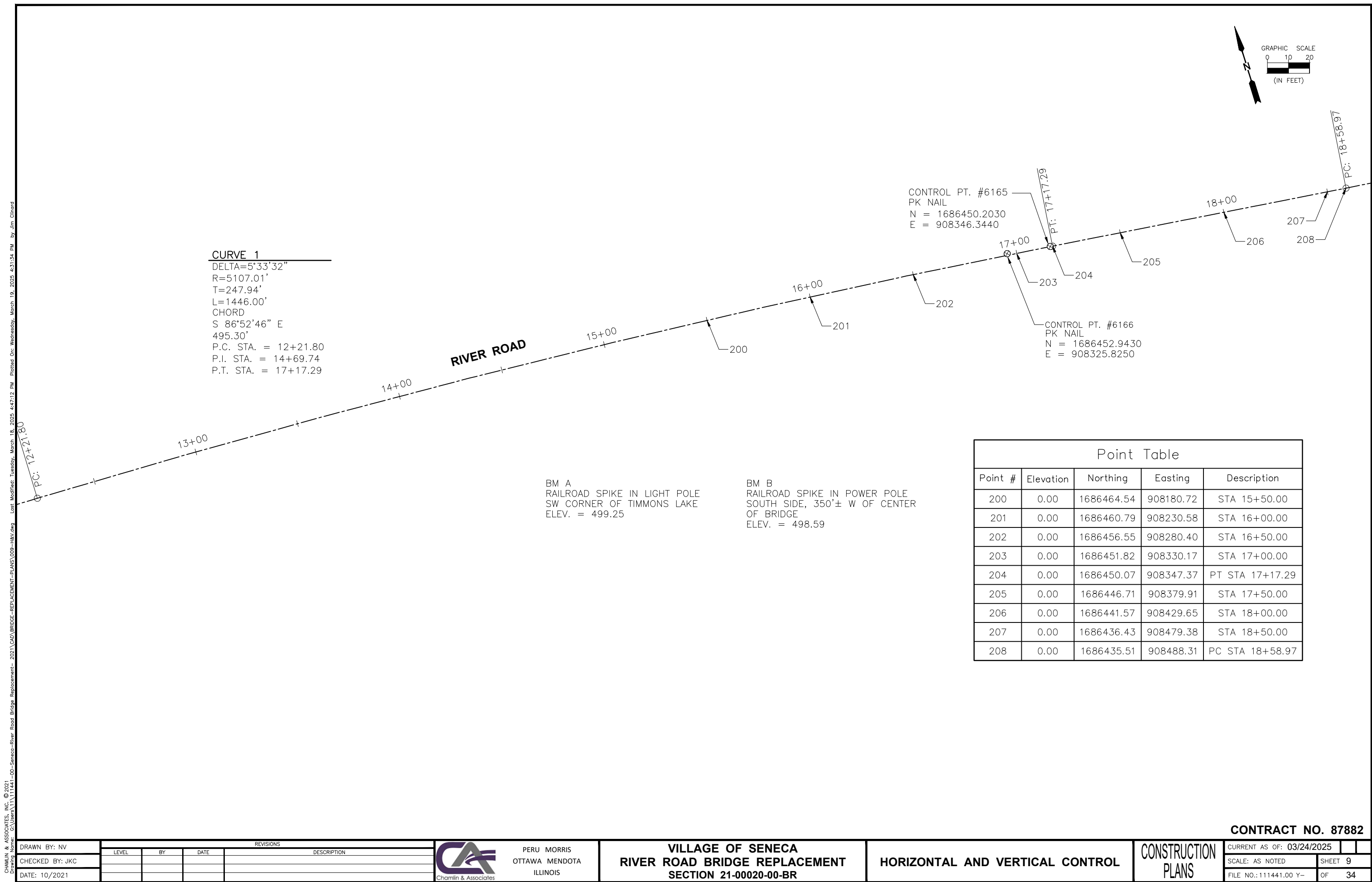
VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

SCHEDULE OF QUANTITIES

CONSTRUCTION
PLANS

CURRENT AS OF: 03/24/2025		
SCALE: AS NOTED	SHEET 8	
FILE NO.: 111441.00 Y-	OF 34	

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Last Modified: Tuesday, March 18, 2025 4:47:12 PM
Plotted On: Wednesday, March 19, 2025 4:31:34 PM
by Jim Clineard



Point Table				
Point #	Elevation	Northing	Easting	Description
200	0.00	1686464.54	908180.72	STA 15+50.00
201	0.00	1686460.79	908230.58	STA 16+00.00
202	0.00	1686456.55	908280.40	STA 16+50.00
203	0.00	1686451.82	908330.17	STA 17+00.00
204	0.00	1686450.07	908347.37	PT STA 17+17.29
205	0.00	1686446.71	908379.91	STA 17+50.00
206	0.00	1686441.57	908429.65	STA 18+00.00
207	0.00	1686436.43	908479.38	STA 18+50.00
208	0.00	1686435.51	908488.31	PC STA 18+58.97

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VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

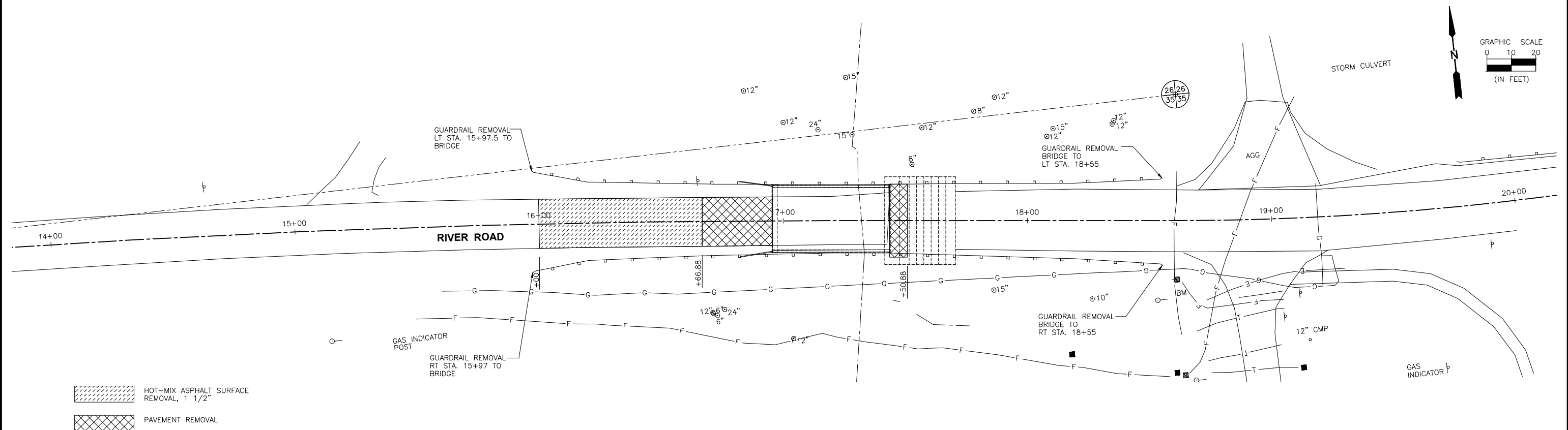
HORIZONTAL AND VERTICAL CONTROL

CONSTRUCTION
PLANS

CONTRACT NO. 87882

CURRENT AS OF: 03/24/2025	
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FILE NO.: 111441.00 Y-	OF 34

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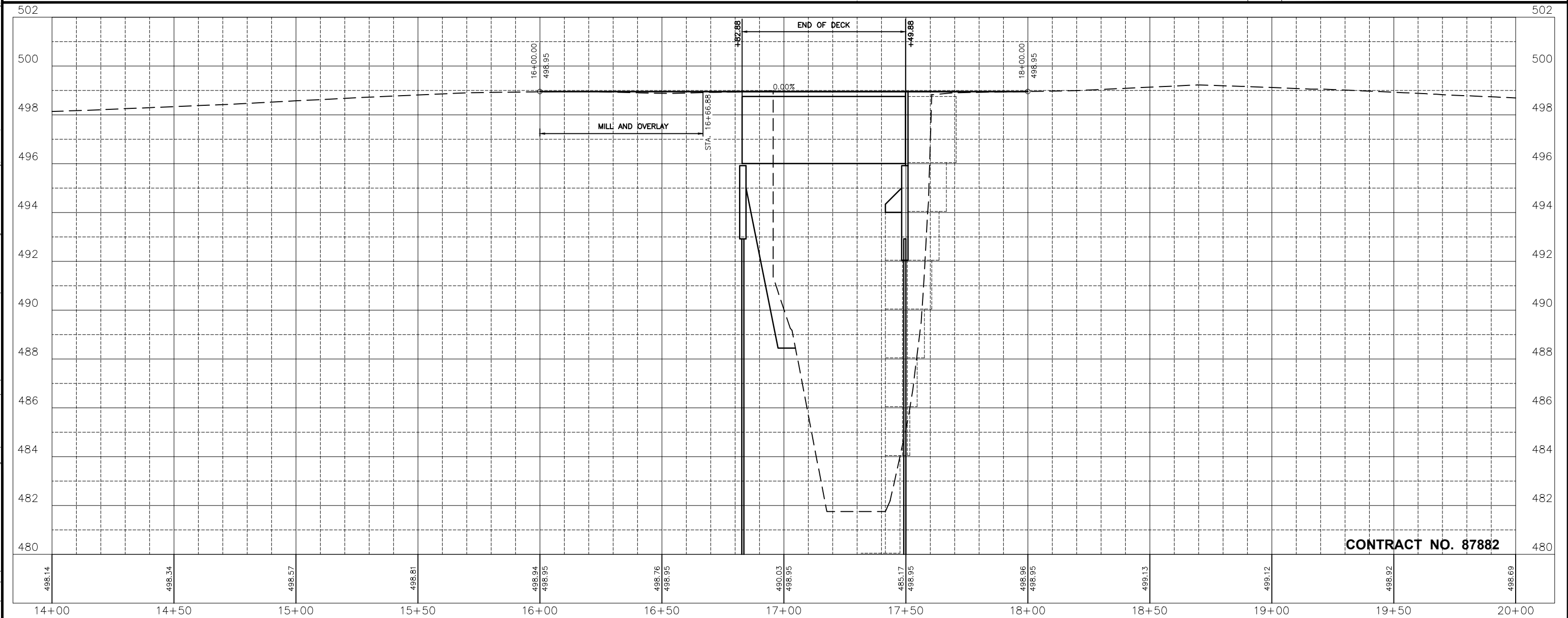
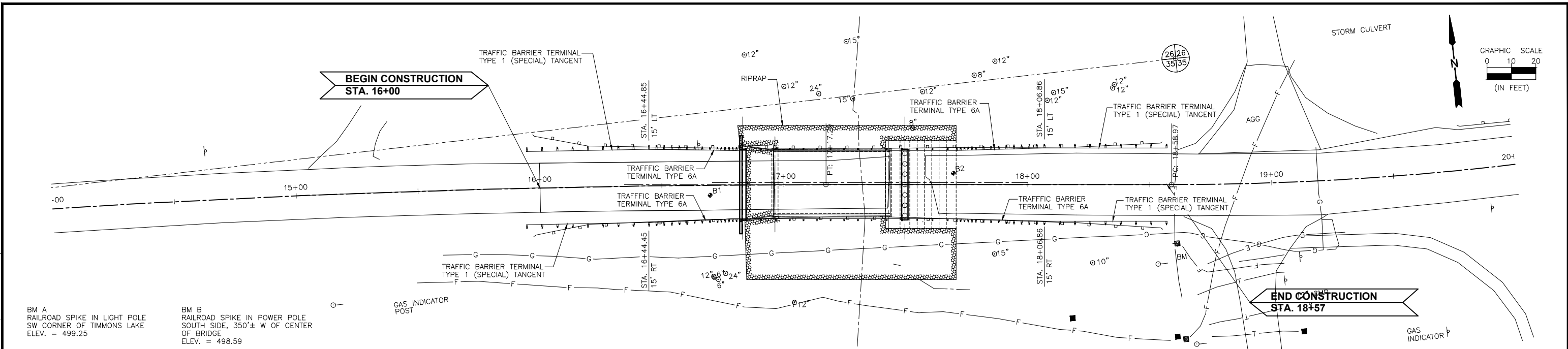
VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

REMOVAL PLAN

CONSTRUCTION
PLANS

CURRENT AS OF: 03/24/2025	
SCALE: AS NOTED	SHEET 10
FILE NO.: 111441.00 Y-	OF 34

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Drawing Name: G:\Users\11111441-00-Seneca-River Road Bridge Replacement-PLANS\011-PLAN-PROF.dwg Last Modified: Friday, March 21, 2025 9:09:04 AM Plotted On: Wednesday, March 26, 2025 4:17:09 PM by Jim Chiod



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DATE: 10/2021											

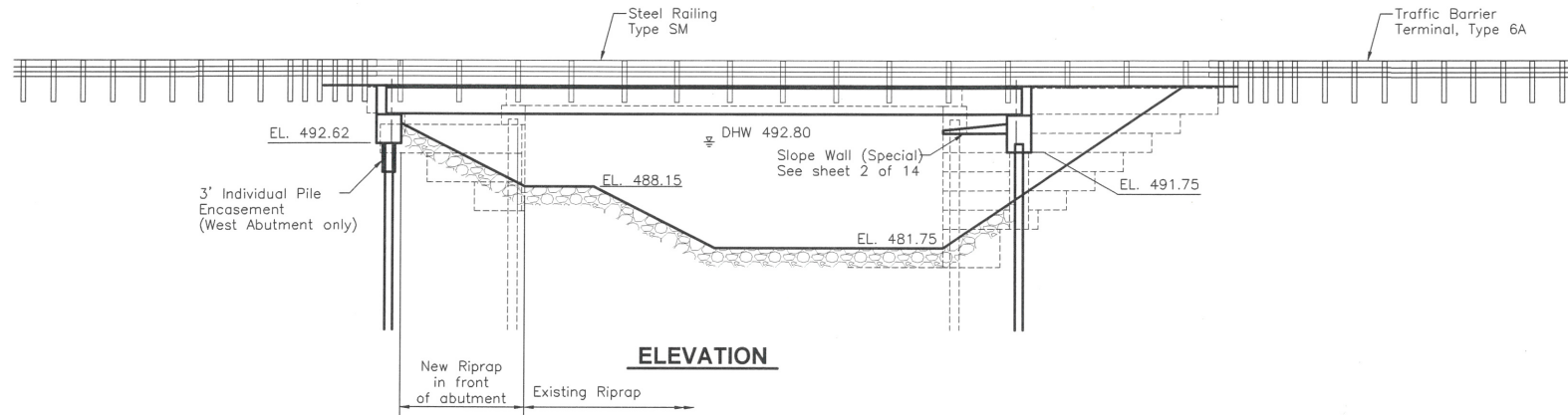
		PERU MORRIS OTTAWA MENDOTA ILLINOIS		VILLAGE OF SENECA RIVER ROAD BRIDGE REPLACEMENT SECTION 21-00020-00-BR		PLAN AND PROFILE		CONSTRUCTION PLANS		CURRENT AS OF: 03/24/2025	
								SCALE: AS NOTED		SHEET 11	
								FILE NO.: 111441.00 Y-		OF 34	

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Last Modified: Wednesday, March 19, 2025 4:25:28 PM
By: Jim Cloward

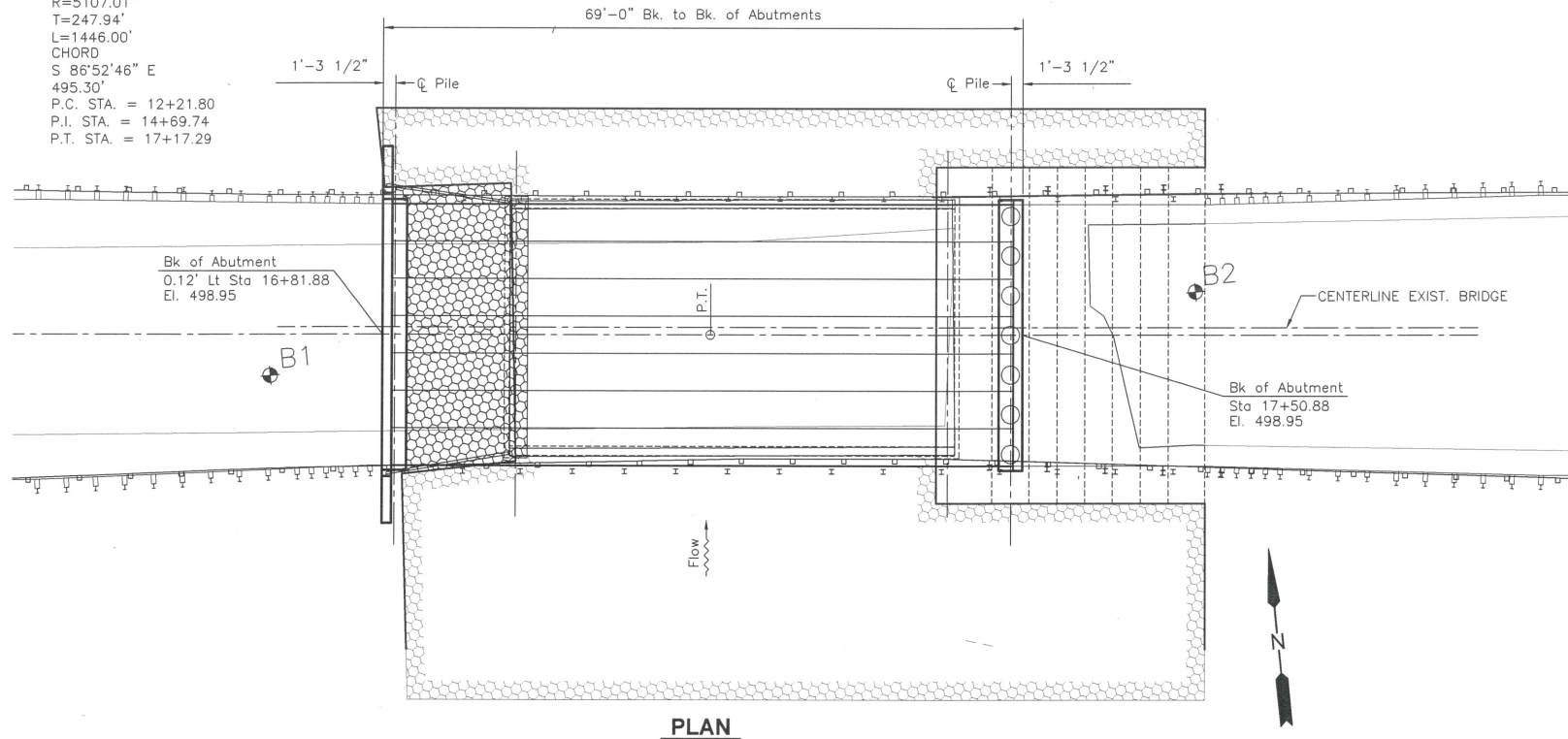
BENCHMARKS:
BM A
RAILROAD SPIKE IN LIGHT POLE
SW CORNER OF TIMMONS LAKE
ELEV. = 499.25

BM B
RAILROAD SPIKE IN POWER POLE
SOUTH SIDE, 350' ± W OF CENTER
OF BRIDGE
ELEV. = 498.59

EXISTING STRUCTURE: SINGLE SPAN PPC DECK BEAM BRIDGE BUILT 1965
BY SECTION 79-63B. 49'-0" BACK TO BACK OF ABUTMENT. SUPPORTED BY TIMBER PILES.
EAST ABUTMENT REPAIRED 2022 BY SECTION 21-00020-01-BR



CURVE 1
DELTA=5°33'32"
R=5107.01'
T=247.94'
L=1446.00'
CHORD
S 86°52'46" E
495.30'
P.C. STA. = 12+21.80
P.I. STA. = 14+69.74
P.T. STA. = 17+17.29



WATERWAY INFORMATION TABLE

Drainage Area = 4.25 Square Miles					Overtopping Elev. = 497.95' / 497.95' (Exist/ Prop.) @ STA 13+00									
Flood	Freq.	Q	Opening (ft. ²)						Nat.		Head (ft.)		Headwater Elev.	
	(Yr.)	C.F.S.	Exist.		Prop.		Prop.		H.W.E.	Exist.	Prop.	Exist.	Prop.	
	10	215	293	0	293	421	0	421	492.8	0.0	0.0	492.8	492.8	
Design	30	287	293	0	293	421	0	421	492.8	0.0	0.0	492.8	492.8	
Base	100	365	293	0	293	421	0	421	492.8	0.0	0.0	492.8	492.8	
Overtopping	---	---	---	---	---	---	---	---	---	---	---	---	---	
Max. Cak.	500	473	293	0	293	421	0	421	492.8	0.0	0.0	492.8	492.8	

Max. H.W.E.: [Unknown] (ft.)
Existing 10 Year Velocity Through Bridge: 3.7 (ft./sec.)
Proposed 10 Year Velocity Through Bridge: 2.3 (ft./sec.)

Max. H.W.E. Date: 7/12/2021

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft)	
	West Abutment	East Abutment
Q ₁₀₀	Not Computed	478.72
Q ₂₀₀	Not Computed	478.45
Design	492.62	478.72
Check	492.62	478.45
Item 113	B	5
Item 113B	B	A

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



PROFILE GRADE

DRAINAGE DITCH
BUILT 20__ BY
LASALLE COUNTY
SEC 21-00020-00-BR
MS RTE 2300 STA 17+16.38
STR. NO. 050-7800 LOADING HL-93

NAME PLATE

See Std. 515001

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.116
Design Spectral Acceleration at 2.0 sec. (SDS) = 0.154
Soil Site Class = D

LOADING HL-93

Allow 25#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
9th Edition No interims

DESIGN STRESSES

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

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

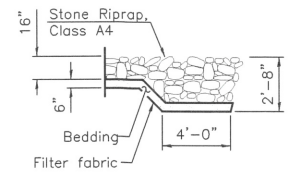
INDEX OF SHEETS

- GENERAL PLAN AND ELEVATION
- ABUTMENT LAYOUT AND BILL OF MATERIALS
- SUPERSTRUCTURE
- 33"x48" PPC DECK BEAM
- STEEL RAILING, TYPE SM
- WEST ABUTMENT
- EAST ABUTMENT
- HP PILE DETAILS
- SOIL BORINGS

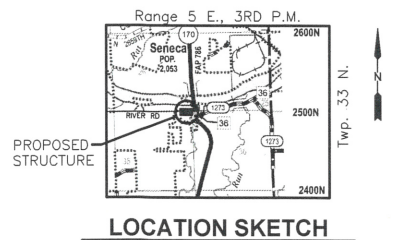
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.



SECTION B-B



LOCATION SKETCH

GENERAL PLAN & ELEVATION
RIVER ROAD
OVER DRAINAGE DITCH
SEC. 21-00020-00-BR
LASALLE COUNTY
STATION 17+16.38
STRUCTURE NO. 050-7800

3/20/25
date
JAMES K. CLINARD
LICENSED STRUCTURAL ENGINEER
NO. 081-004655
STATE OF ILLINOIS
expires 11-30-2026
signature
PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-001717

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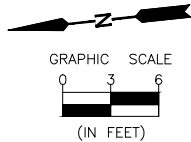
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OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

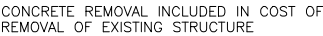
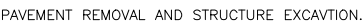
PLAN AND ELEVATION
STRUCTURE NO. SN 050-7800

CONSTRUCTION PLANS

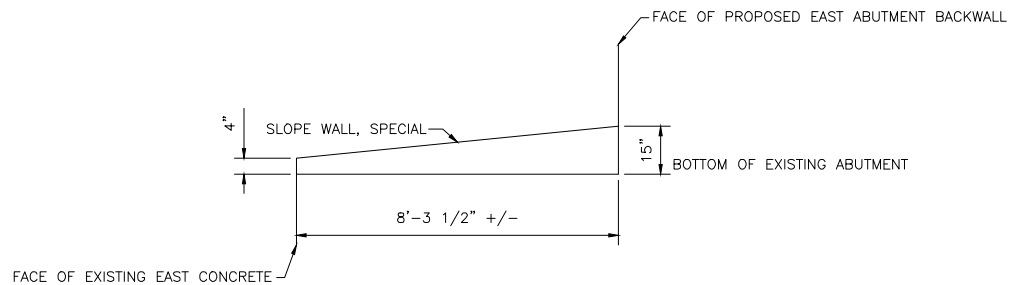
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SCALE: AS NOTED	SHEET 12
FILE NO.: 111441.00 Y-	OF 34



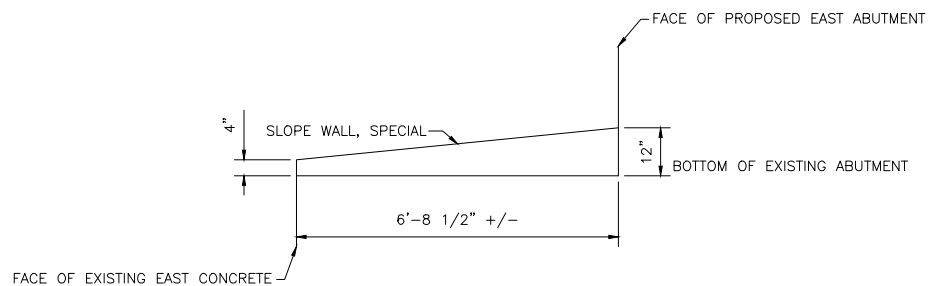
EAST ABUTMENT LAYOUT



ELEVATION LOOKING EAST



SECTION B-B



SECTION A-A

NOTE: SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC,
6 IN. X 6 IN. - W4.0 X W4.0, WEIGHING 58 LBS. PER 100 SQ. FT.

BILL OF MATERIALS

Item	Unit	Super.	Sub.	Total
STONE RIPRAP, CLASS A4	SQ YD	—	44	44
FILTER FABRIC	SQ YD	—	44	44
REMOVAL OF EXISTING STRUCTURES	EACH	1	—	1
STRUCTURE EXCAVATION	CU YD	—	374	374
CONCRETE STRUCTURES	CU YD	—	28.7	28.7
CONCRETE ENCASEMENT	CU YD	—	2.1	2.1
PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	—	1876	1876
REINFORCEMENT BARS, EPOXY COATED	POUND	—	3140	3140
STEEL RAILING, TYPE SM	FOOT	176	—	176
FURNISHING STEEL PILES HP10X42	FOOT	—	500	500
DRIVING PILES	FOOT	—	500	500
PILE SHOES	EACH	—	13	13
NAME PLATES	EACH	1	—	1
FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	208	—	208
PORTLAND CEMENT CONCRETE FAIRING COURSE	FOOT	402	—	402
GRANULAR BACKFILL FOR STRUCTURES	CU YD	—	26	26
SLOPE WALL (SPECIAL)	SQ YD	—	28	28

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DATE: 10/2021				



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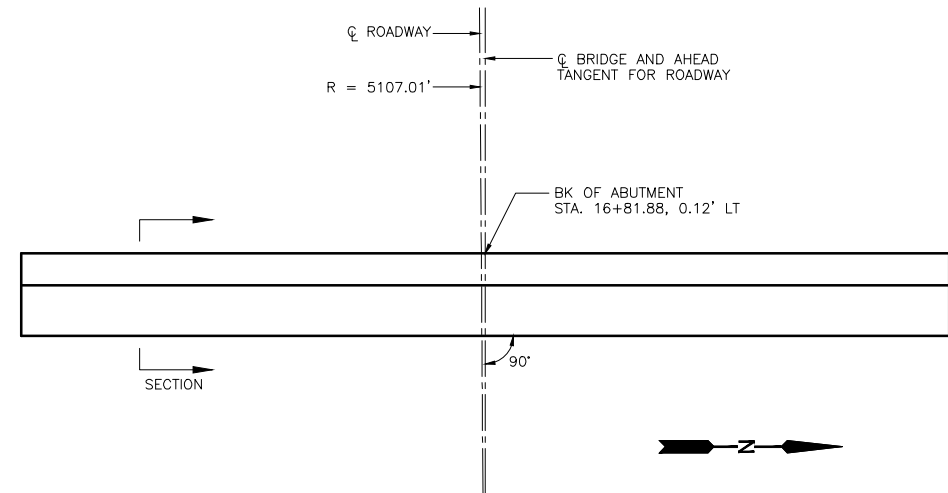
**VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR**

EAST ABUTMENT LAYOUT AND BILL OF MATERAILS SN 050-7800

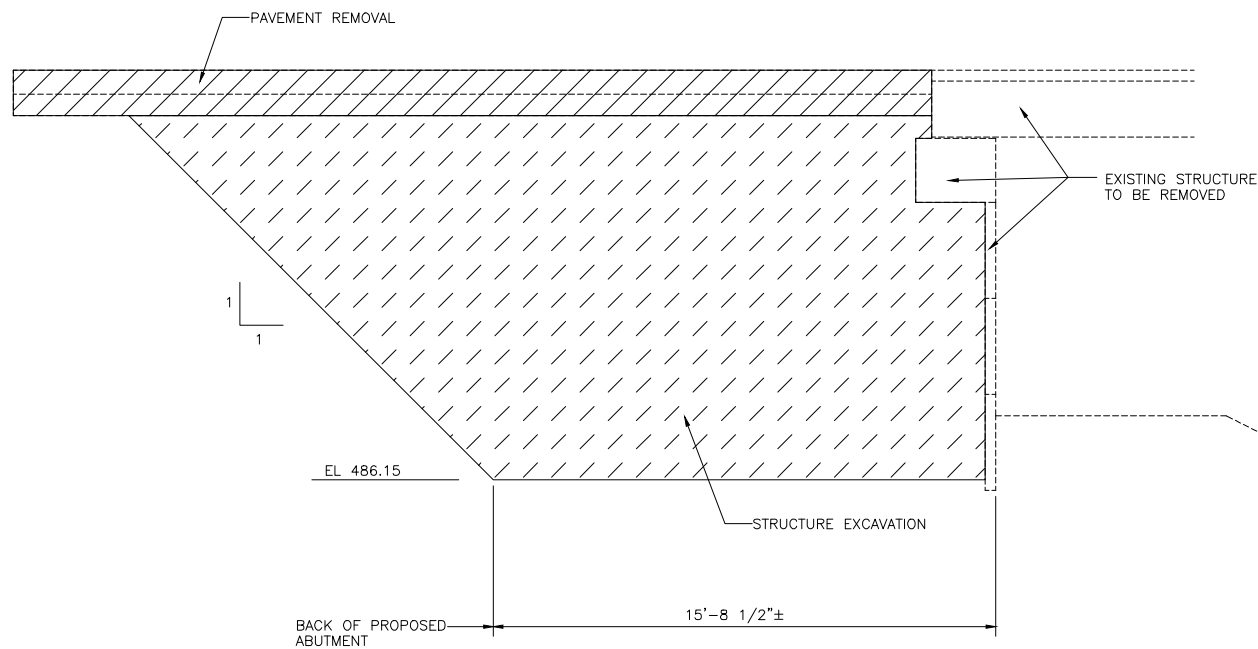
CONSTRUCTION
PLANS

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FILE NO.: 111441.00 Y-		OF	34

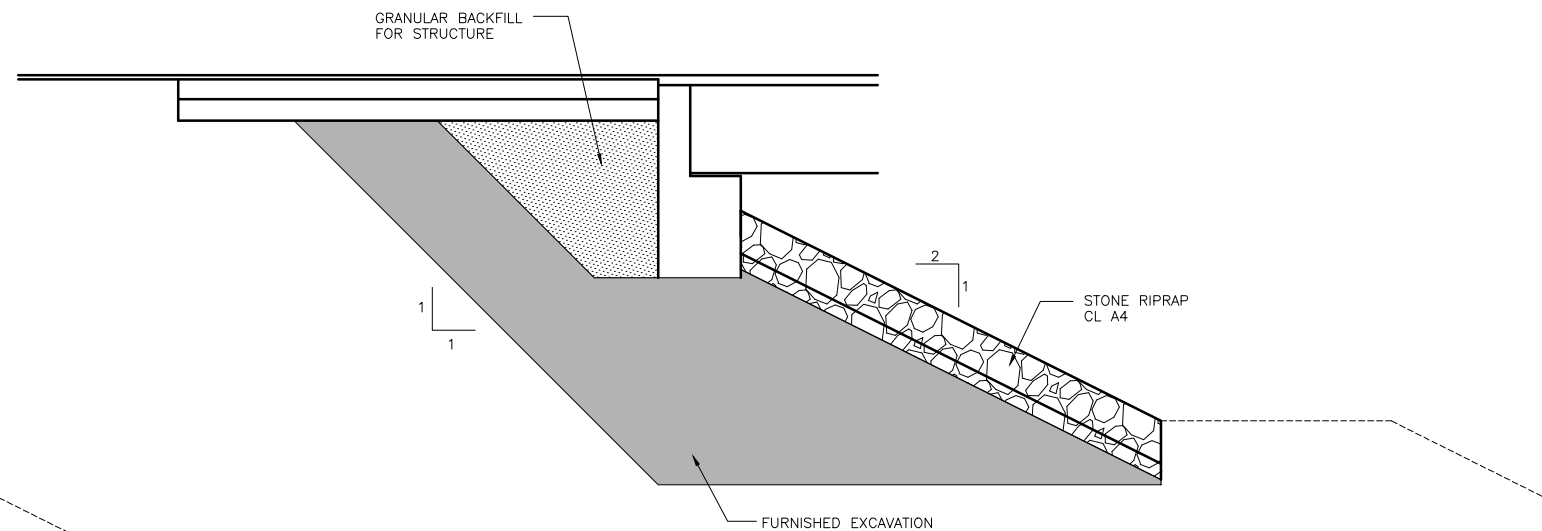
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PLAN AT WEST ABUTMENT



SECTION THROUGH EXISTING ABUTMENT



SECTION THROUGH NEW ABUTMENT

SHEET 3 OF 14

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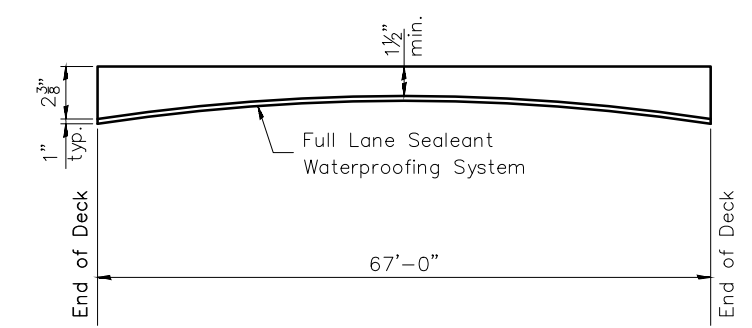
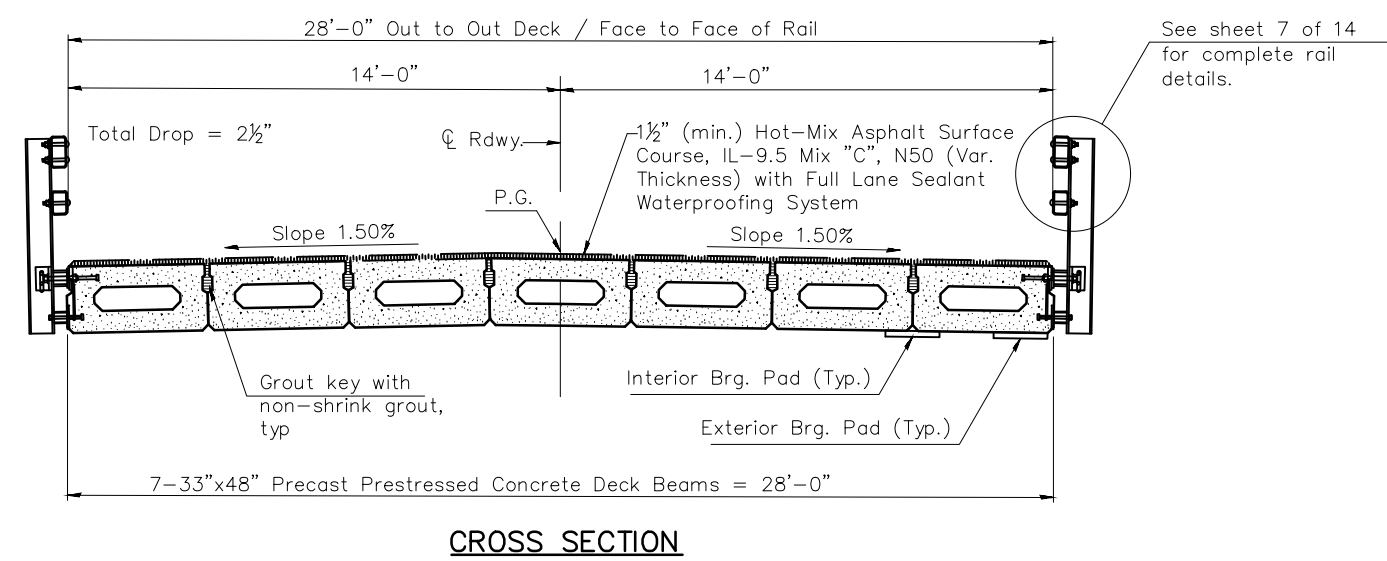
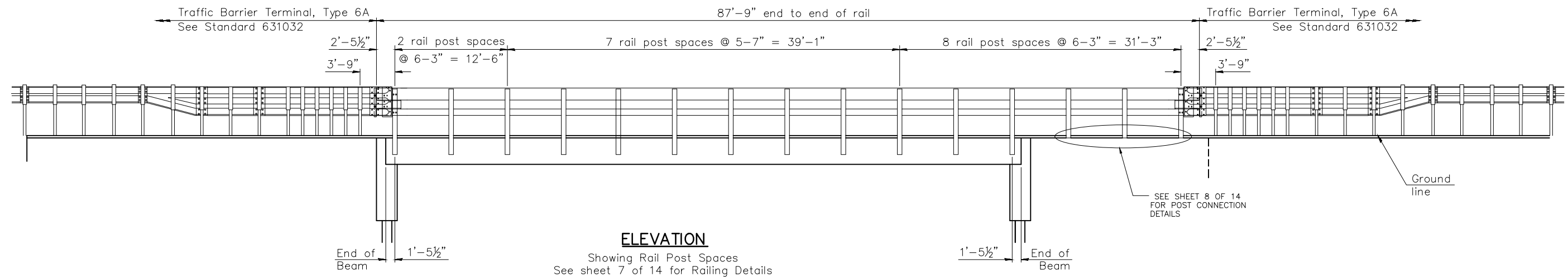
**VILLAGE OF SENECA
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SECTION 21-00020-00-BR**

**WEST ABUTMENT LAYOUT
SN 050-7800**

**CONSTRUCTION
PLANS**

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SHEET 4 OF 14

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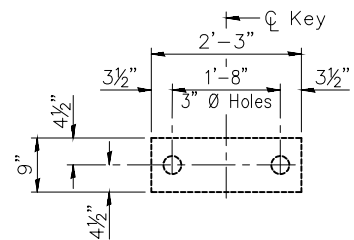
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SECTION 21-00020-00-BR

SUPERSTRUCTURE
STRUCTURE NO. SN 050-7800

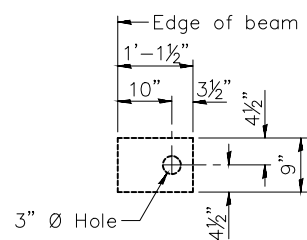
DRAFT
NOT FOR CONSTRUCTION

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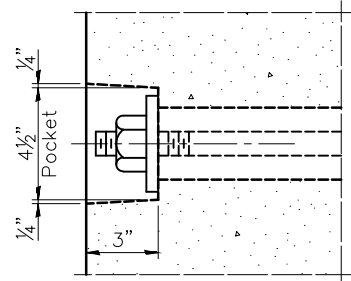
FABRIC BEARING PAD
(Interior)



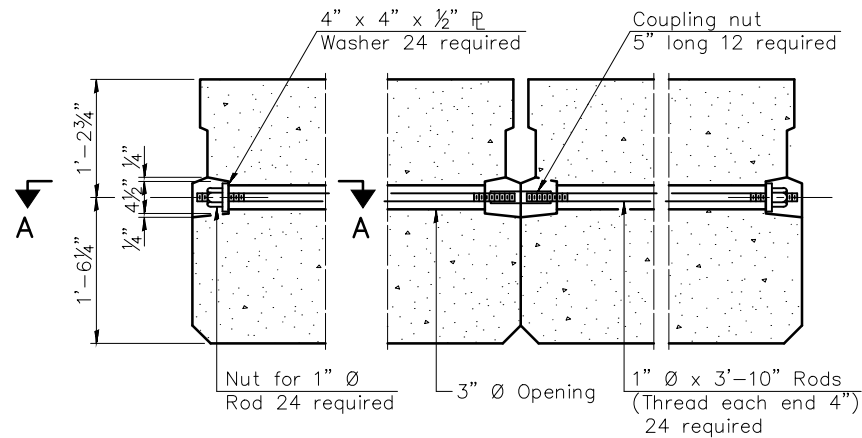
FABRIC BEARING PAD
(Exterior)

FIXED

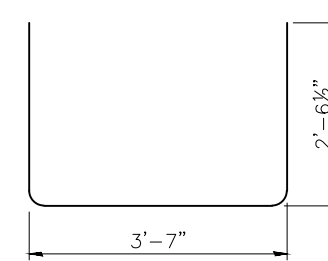
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



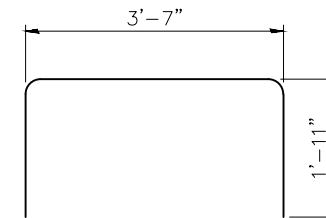
SECTION A-A



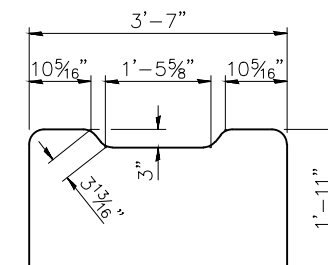
TYPICAL TRANSVERSE TIE ASSEMBLY



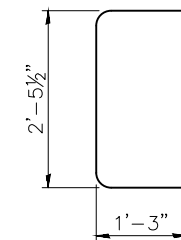
BAR S(E)



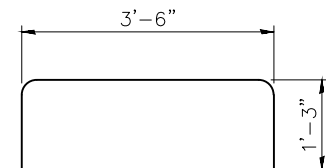
BAR S1(E)



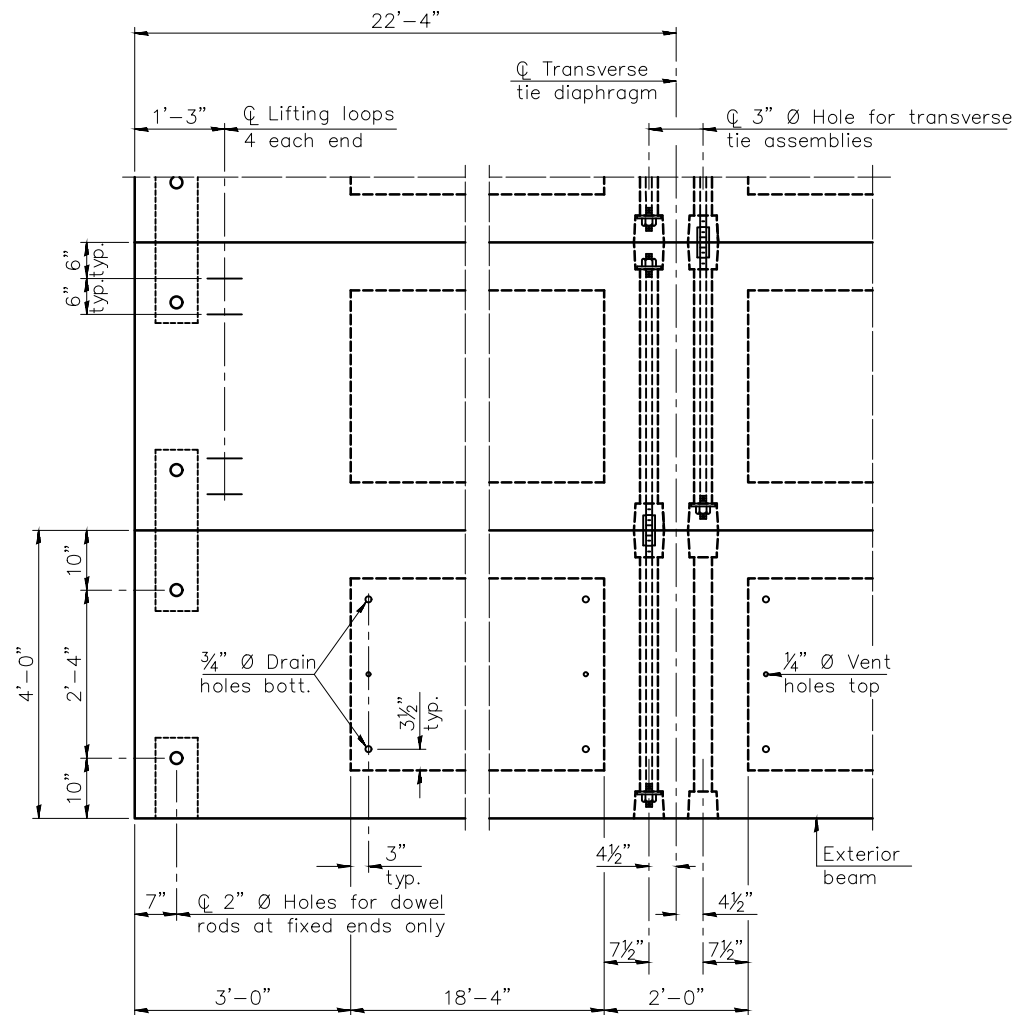
BAR S2(E)



BAR U(E)



BAR U1(E)

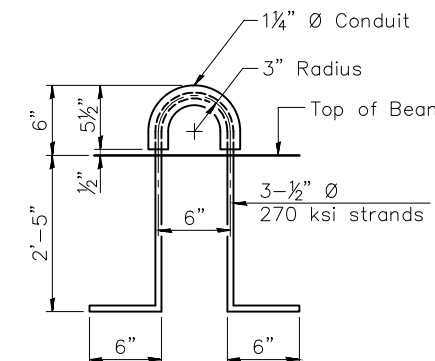


PLAN VIEW

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

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	1876
---	---------	------

PDD-3348-0

1-1-2020

SHEET 5 OF 14

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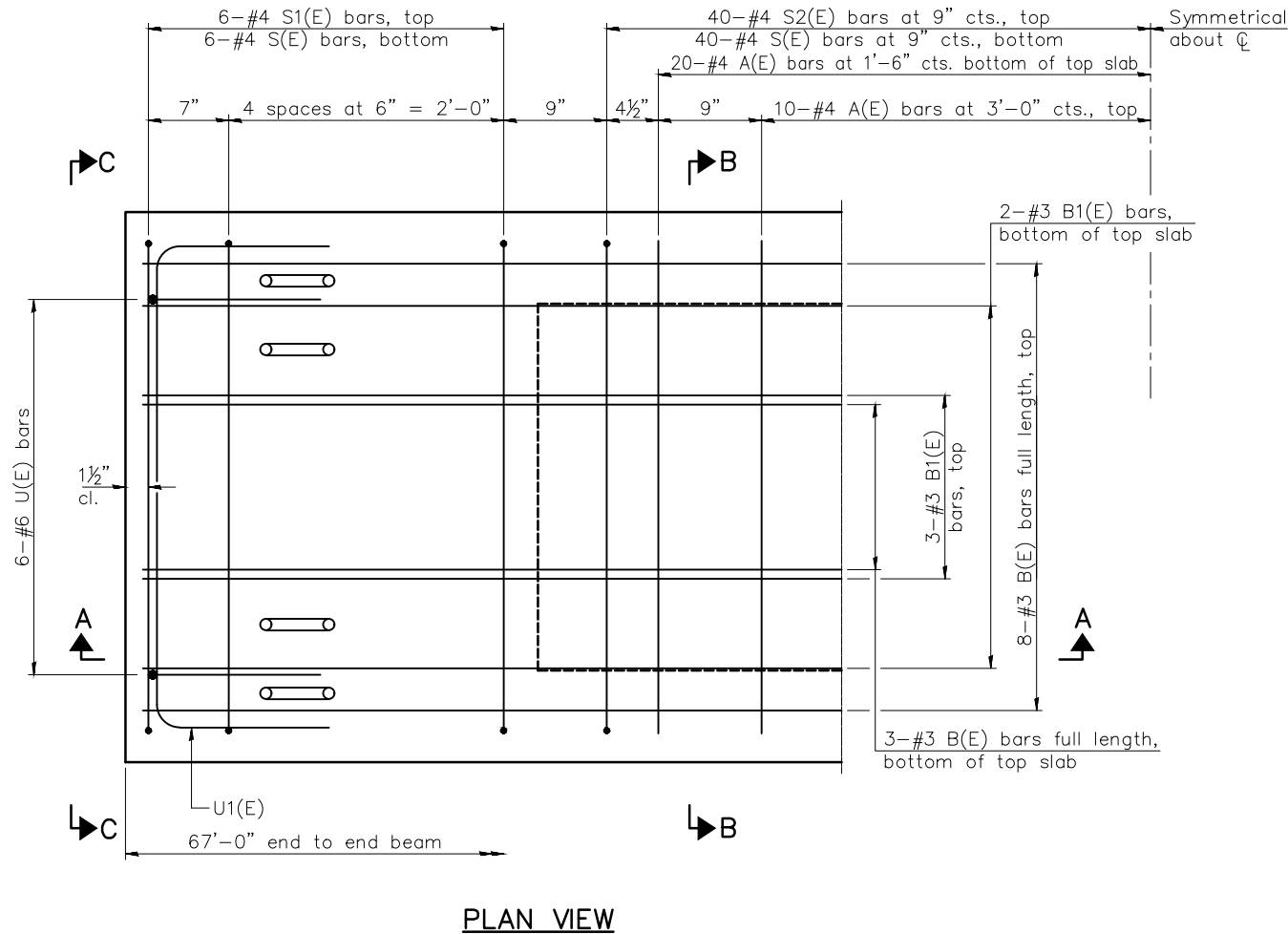
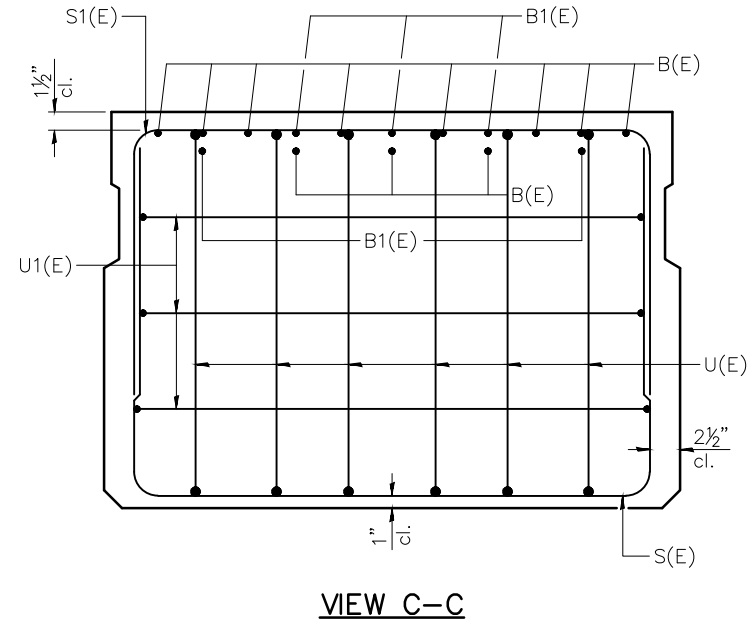
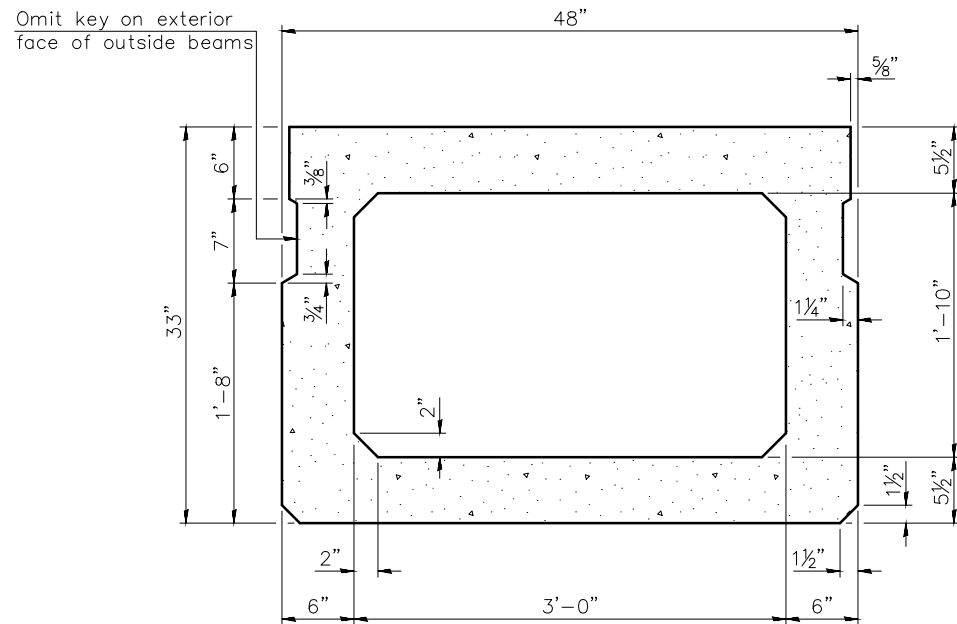
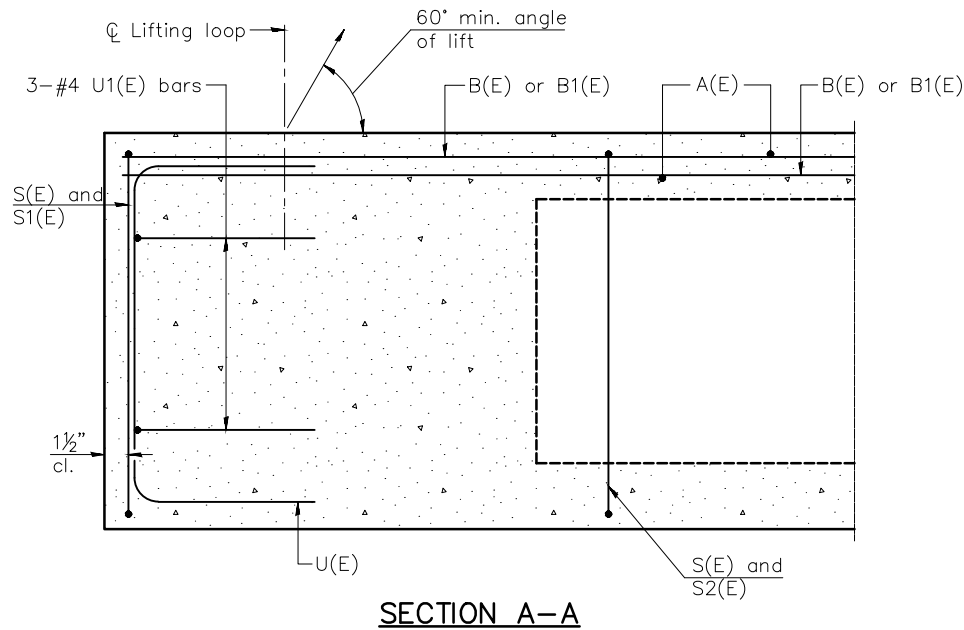
VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

33" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. SN 050-7800

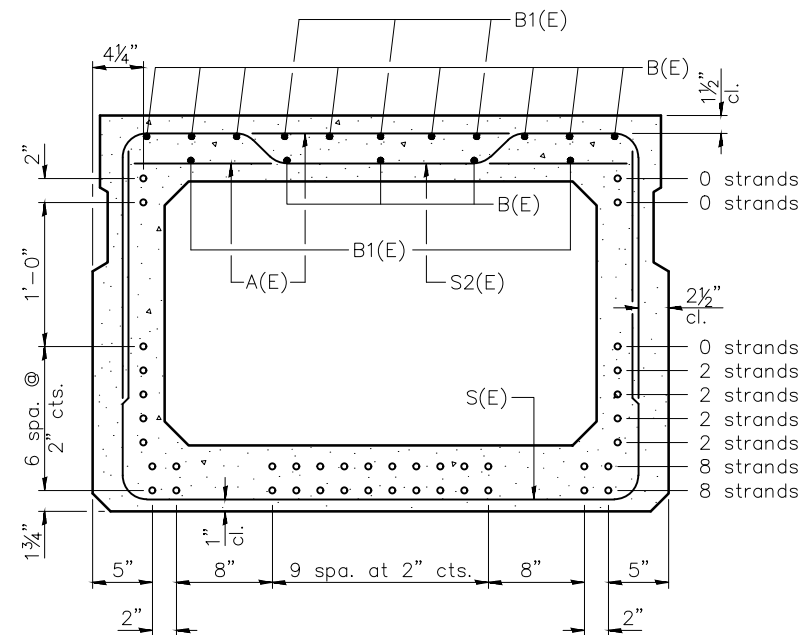
CONSTRUCTION
PLANS

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SECTION B-B
(Showing dimensions)



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	62	#4	3'-7"	—
B(E)	33	#3	23'-3"	—
B1(E)	10	#3	10'-0"	—
S(E)	93	#4	8'-8"	U
S1(E)	12	#4	7'-5"	U
S2(E)	81	#4	7'-8"	U
U(E)	12	#6	5'-0"	C
U1(E)	6	#4	6'-0"	C

Note:
See sheet 5 of 14 for additional details and Bill of Material.

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

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

PD-3348-0

1-1-2020

SHEET 6 OF 14

CONTRACT NO. 87882

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RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

33" x 48" PPC DECK BEAM
STRUCTURE NO. SN 050-7800

CONSTRUCTION
PLANS

CURRENT AS OF: 03/24/2025	
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SHEET 8 OF 14

CONTRACT NO. 87882

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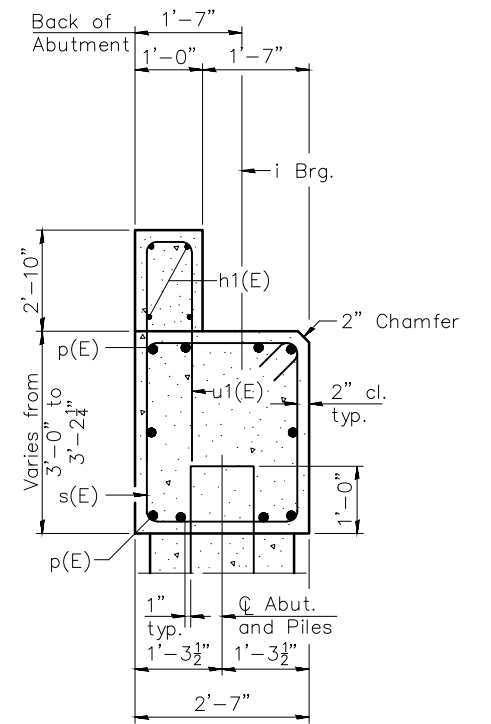
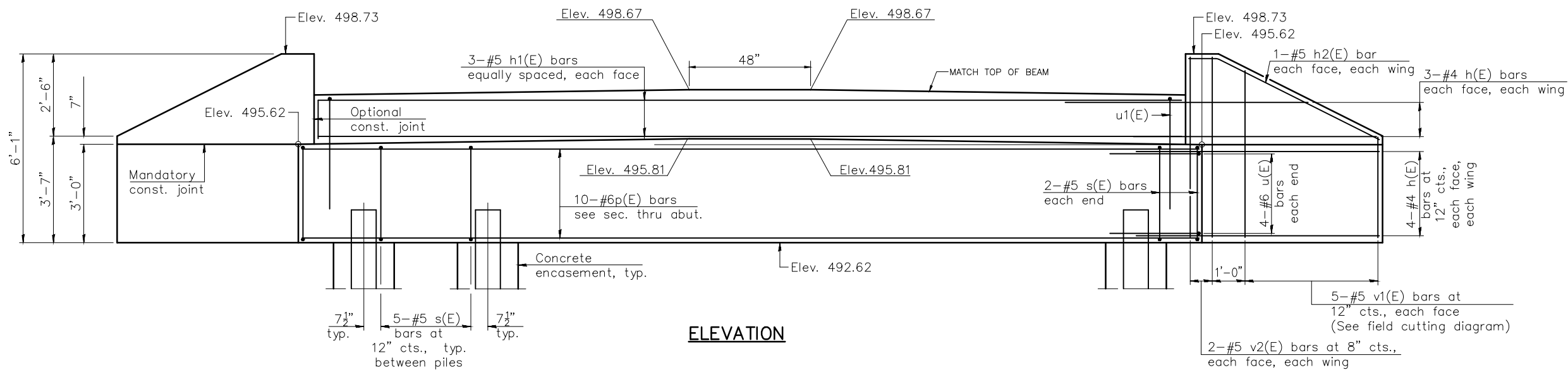
STEEL RAILING POST DETAILS

SN 050-7800

CONSTRUCTION PLANS

CURRENT AS OF: 03/24/2025			
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FILE NO.: 111441.00 Y-		OF	34

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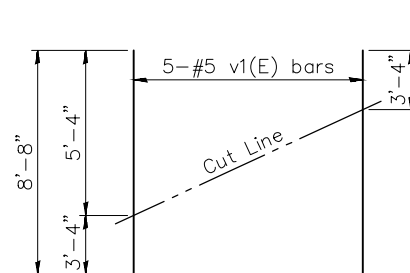
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#4	7'-9"	
h1(E)	6	#5	28'-0"	
h2(E)	4	#5	6'-2"	
p(E)	10	#6	28'-9"	
s(E)	29	#5	10'-9"	
u(E)	8	#6	10'-9"	
u1(E)	29	#5	10'-4"	
v1(E)	10	#5	8'-8"	
v2(E)	8	#5	5'-10"	
Structure Excavation			Cu. Yd.	321
Concrete Structures			Cu. Yd.	13.8
Reinforcement Bars, Epoxy Coated			Pound	1680
Furnishing Steel Piles, HP 10x42			Foot	234
Driving Piles			Foot	234
Concrete Encasement			Cu. Yd.	2.1
Pile Shoes			Each	6

Notes:
For details of piles and Concrete Encasement, see sheet 11 of 14.
Cast backwall and tops of wingwalls after beams have been erected.

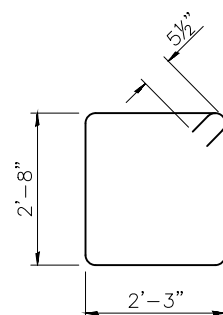
PILE DATA

Type: HP 10x42 with pile shoes
Nominal Required Bearing: 297 kips
Factored Resistance Available: 163 kips
Est. Length: 39
No. Production Piles: 6

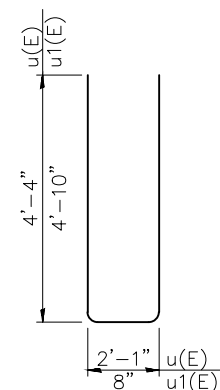


FIELD CUTTING DIAGRAM

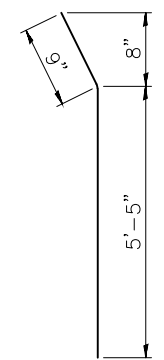
Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite wing.



BAR s(E)



BARS u(E) & u1(E)



BAR h2(E)

AD-SB-0

6-15-2019

SHEET 9 OF 14

CONTRACT NO. 87882

LEVEL	BY	DATE	REVISIONS	DESCRIPTION



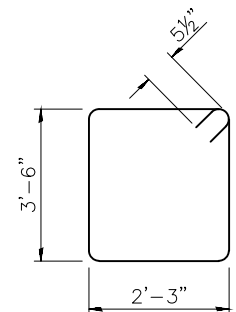
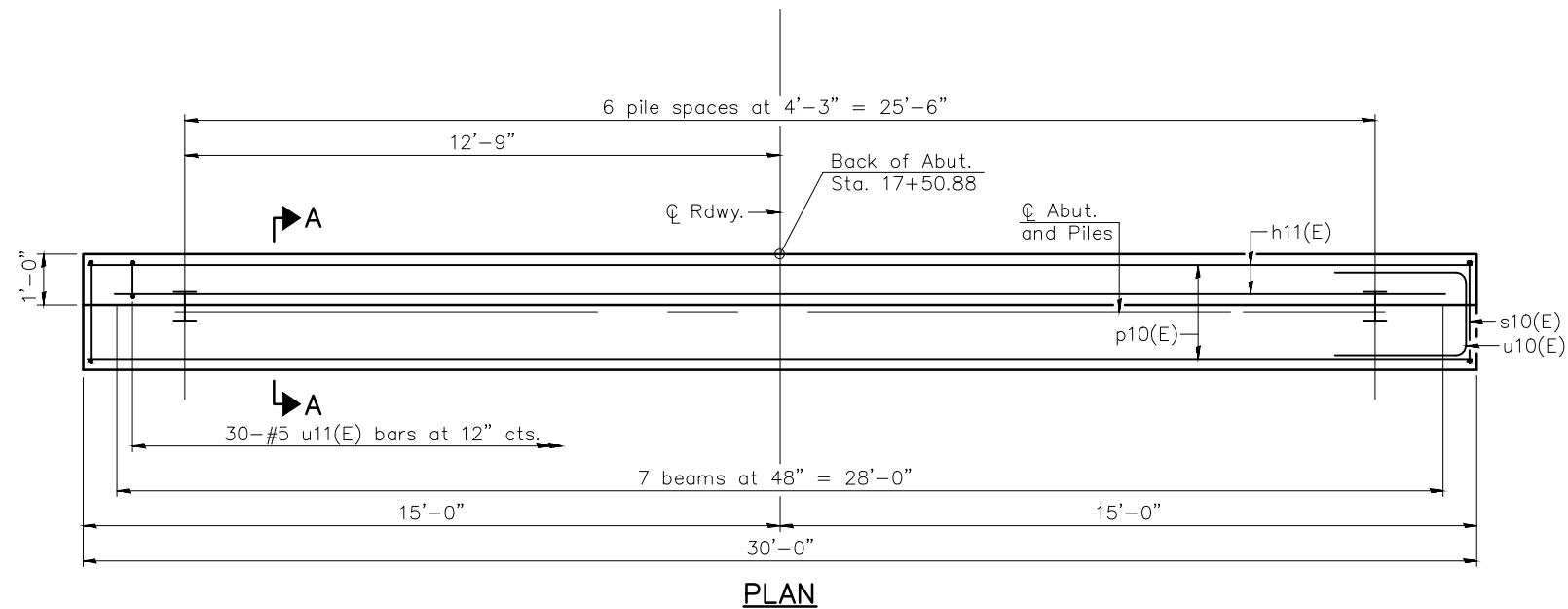
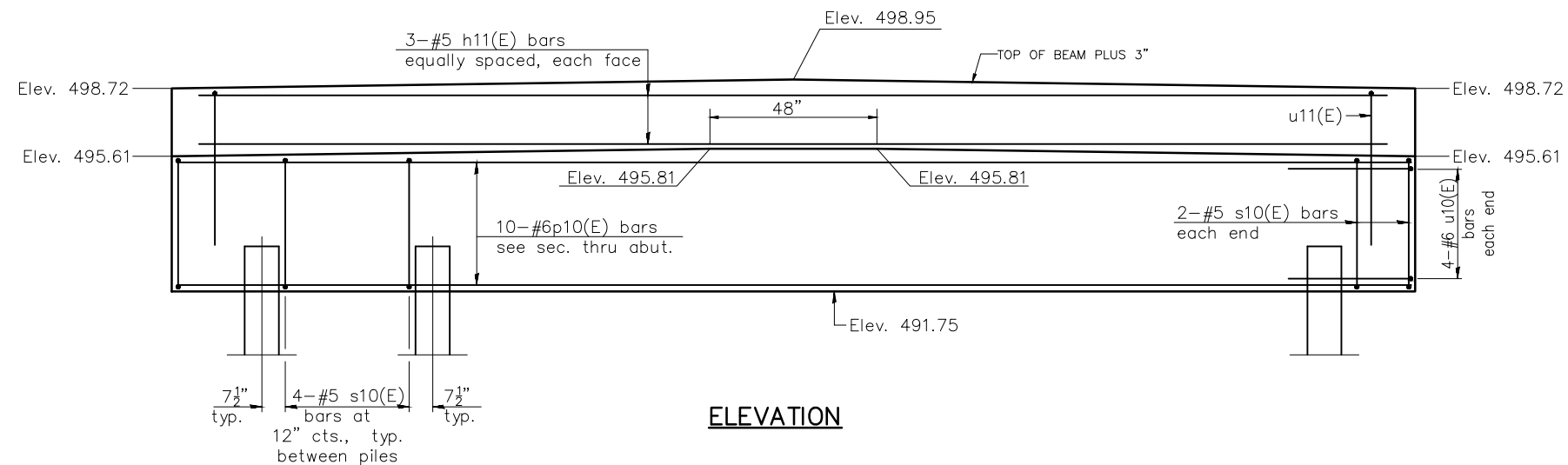
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

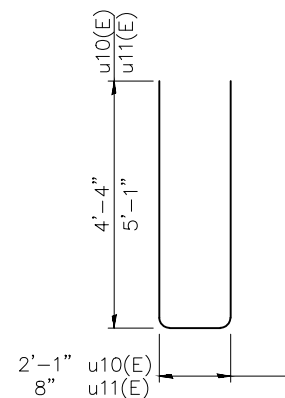
WEST ABUTMENT
STRUCTURE NO. SN 050-7800

CONSTRUCTION
PLANS

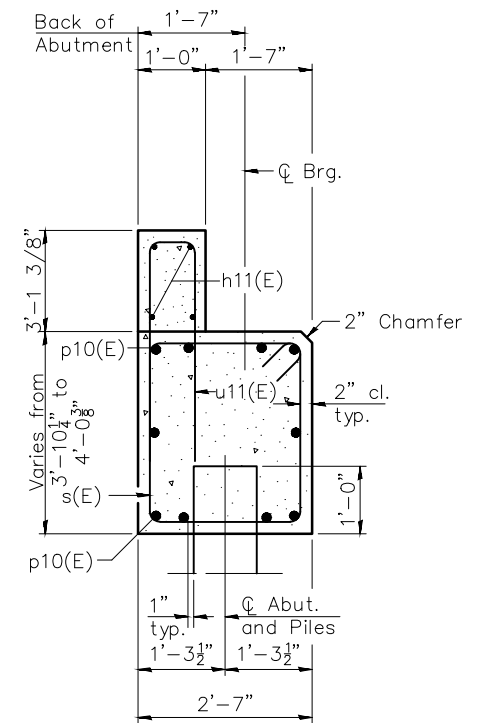
CURRENT AS OF: 03/24/2025	
SCALE: AS NOTED	SHEET 20
FILE NO.: 111441.00 Y-	OF 34



BAR s10(E)



BARS u10(E) & u11(E)



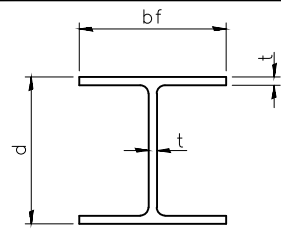
SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h11(E)	6	#5	29'-9"	
p10(E)	10	#6	29'-9"	
s10(E)	28	#5	12'-5"	
u10(E)	8	#6	10'-9"	
u11(E)	30	#5	10'-10"	
Structure Excavation			Cu. Yd.	53
Concrete Structures			Cu. Yd.	14.9
Reinforcement Bars, Epoxy Coated			Pound	1460
Furnishing Steel Piles, HP 10x42			Foot	266
Driving Piles			Foot	266
Pile Shoes			Each	7

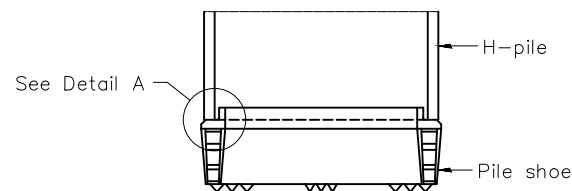
Notes:
Cast backwall and tops of wingwalls after beams
have been erected.

CHAMLIN & ASSOCIATES, INC. © 2021
Drawing Name: G:\Users\111111441-00-Seneca-River Road Bridge Replacement-PLANS\022-HP-PILE-BET.dwg
Last Modified: Tuesday, March 18, 2025 4:04:16 PM
Plotted On: Wednesday, March 19, 2025 3:57:14 PM
By: Jim Olinard

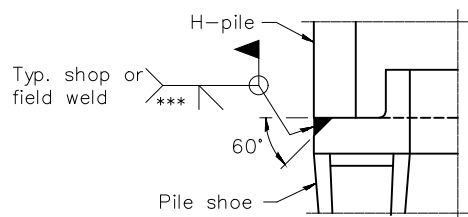


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	1⅜"	30"
x102	14"	14¾"	1⅞"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	1⅞"	24"
x74	12⅞"	12¼"	⅝"	24"
x63	12"	12⅞"	½"	24"
x53	11¾"	12"	⅞"	24"
HP 10x57	10"	10¼"	⅞"	24"
x42	9¾"	10⅞"	⅞"	24"
HP 8x36	8"	8⅞"	⅞"	18"



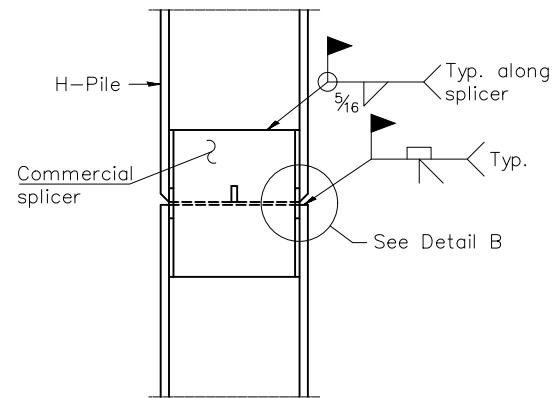
ELEVATION



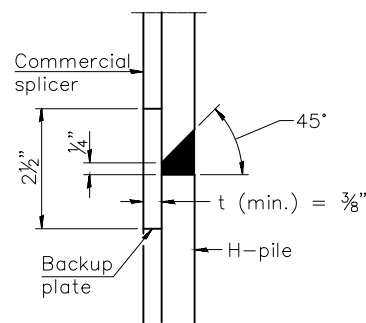
DETAIL A

SHOE ATTACHMENT

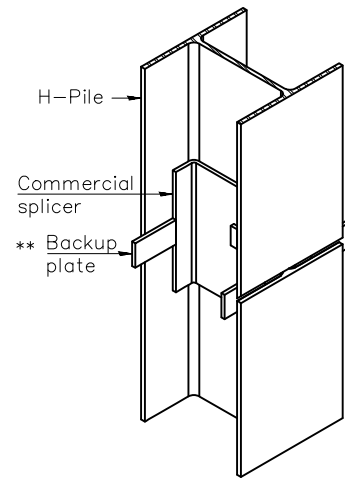
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

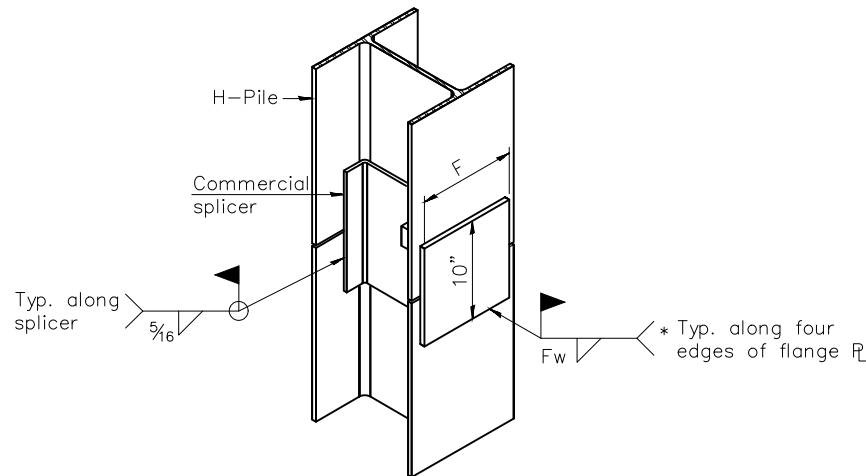


DETAIL "B"



ISOMETRIC VIEW

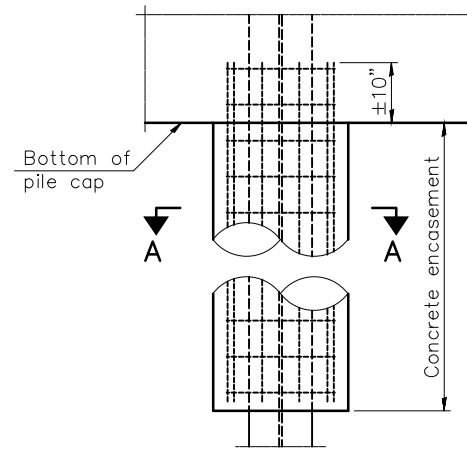
WELDED COMMERCIAL SPLICE



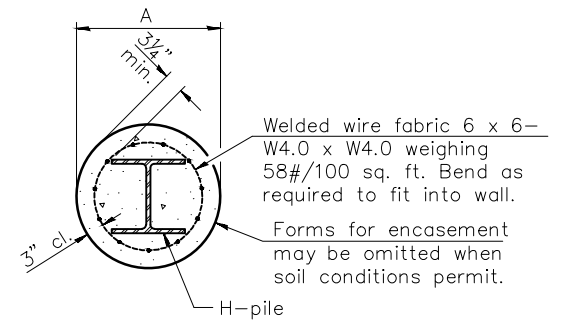
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds ¼" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (⅝" min.).

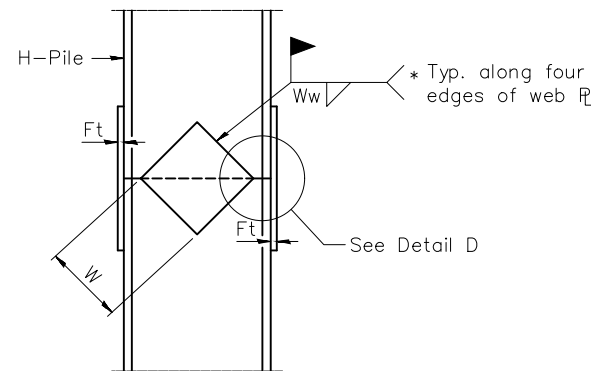


ELEVATION

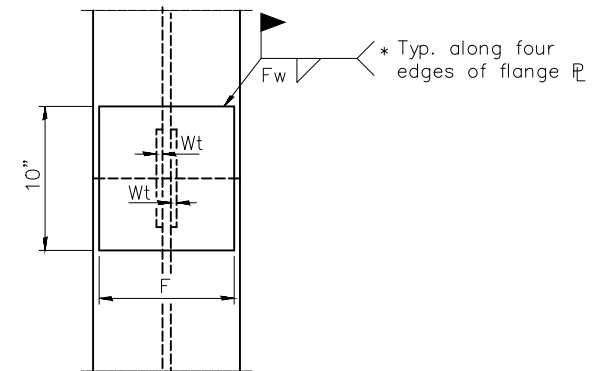


SECTION A-A

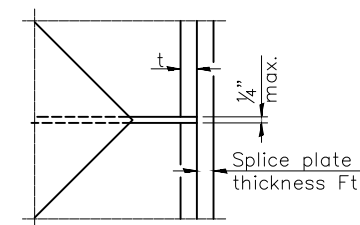
INDIVIDUAL PILE
CONCRETE ENCASUREMENT
(when specified)



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	1⅞"	7¾"	⅝"	½"
x73	12½"	⅝"	⅞"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	1⅞"	6½"	⅝"	½"
x74	10"	⅞"	1⅞"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	⅞"	5¼"	½"	⅜"
x42	8"	⅝"	⅞"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	⅞"	4¼"	½"	⅜"

F-HP

1-1-2020

SHEET 11 OF 14

CONTRACT NO. 87882

DRAWN BY: NV	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JKC					
DATE: 10/2021					



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OTTAWA MENDOTA
ILLINOIS

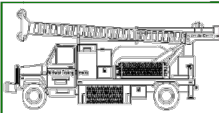
VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

HP PILE DETAIL
STRUCTURE NO. SN 050-7800

CONSTRUCTION
PLANS

CURRENT AS OF: 03/24/2025	
SCALE: AS NOTED	SHEET 22
FILE NO.: 111441.00 Y-	OF 34

CHAMLIN & ASSOCIATES, INC. © 2021
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Last Modified: Tuesday, March 18, 2025 3:55:24 PM
Plotted On: Wednesday, March 19, 2025 3:54:24 PM
By: Jim Olinard



Midwest Testing Services, Inc.

3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 3

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

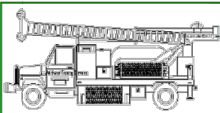
Client: Chamlin & Associates, Inc.
Project Name: Seneca River Road Bridge
Project Site: Seneca, IL.

Boring No. B-1
Surface Elev. 498.95
Auger Depth 46' Rotary Depth NA
Start Date 08/14/21 Finish Date 08/14/21

Location: As staked by Chamlin & Associates

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						Dry Density (PCF)	DRILLED BY
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		REMARKS
498.95											
497.95	8.5" Bituminous Over 12.5' Aggregate		1								
496.95			2								
495.95			3	1	SS	---	15	---	10		
494.95	Medium Brown Fine To Coarse Gravel Mixed with Clay		4								
493.95			5								
492.95			6	2	SS	---	11	---	12		
491.95			7								
490.95			8	3	SS	---	4	---	18		
489.95			9								
488.95	Very Loose Brown Fine Sand With with Clay Seams		10	4	SS	---	3	---	21		
487.95			11								
486.95			12								
485.95			13	5	SS	---	3	---	21		
484.95			14								
483.95			15								
482.95			16	6	SS	---	3	---	22		
481.95			17								
480.95	Very Loose Brown Fine Sand		18	7	SS	---	2	---	---		
479.95			19								
478.95			20	8	SS	---	2	---	---		

Groundwater Data: Static water level at time of soil borings - Elevation 482.95
Comments:



Midwest Testing Services, Inc.

3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 3

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

Client: Chamlin & Associates, Inc.
Project Name: Seneca River Road Bridge
Project Site: Seneca, IL.

Boring No. B-1
Surface Elev. 498.95
Auger Depth 46' Rotary Depth NA
Start Date 08/14/21 Finish Date 08/14/21

Location: As staked by Chamlin & Associates

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						Dry Density (PCF)	DRILLED BY
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		REMARKS
477.95											
476.95			22								
475.95			23	9	SS	---	13	---	---		
474.95			24								
473.95	Medium Brown Fine To Coarse Sand		25								
472.95			26	10	SS	---	21	---	---		
471.95			27								
470.95			28	11	SS	---	25	---	---		
469.95			29								
468.95			30								
467.95			31	12	SS	---	36	---	---		
466.95			32								
465.95	Dense Brown Fine To Coarse Sand With Cobbles At 38' Depth		33								
464.95			34								
463.95			35								
462.95			36	13	SS	---	39	---	---		
461.95			37								
460.95			38								
459.95	Cobbles		39								
458.95			40								
457.95	Very Dense Dark Gray Shale		41	14	SS	---	100 9"	---	9		

Groundwater Data: Static water level at time of soil borings - Elevation 482.95
Comments:

SHEET 12 OF 14

CONTRACT NO. 87882

DRAWN BY: NV	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 10/2021				



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OTTAWA MENDOTA
ILLINOIS

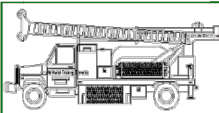
VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

SOIL BORINGS
STRUCTURE NO. SN 050-7800

CONSTRUCTION
PLANS

CURRENT AS OF: 03/24/2025	
SCALE: AS NOTED	SHEET 23
FILE NO.: 111441.00 Y-	OF 34

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Drawing Name: G:\Users\j1111141-00-Seneca-River Road Bridge Replacement-2021\CAD\BRIDGE-REPLACEMENT-PLANS\023-025-BORINGS.dwg
Last Modified: Tuesday, March 18, 2025 3:55:24 PM
Plotted On: Wednesday, March 19, 2025 3:55:19 PM
by Jim Olinard



Midwest Testing Services, Inc.

3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 3 of 3

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

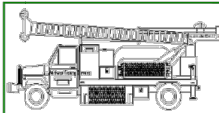
Client: Chamlin & Associates, Inc.
Project Name: Seneca River Road Bridge
Project Site: Seneca, IL.

Boring No. B-1
Surface Elev. 498.95
Auger Depth 46' Rotary Depth NA
Start Date 08/14/21 Finish Date 08/14/21

Location: As staked by Chamlin & Associates

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
456.95											
455.95			43								
454.95	Very Dense Dark Gray Shale		44								
453.95			45								
452.95			46	16	SS	---	100 2"	---	8.0		
451.95			47								
450.95			48								
449.95			49								
448.95			50								
447.95			51								
446.95			52								
445.95			53								
444.95			54								
443.95			55								
442.95			56								
441.95			57								
440.95			58								
439.95			59								
438.95			60								
437.95			61								
436.95			62								

Groundwater Data: Static water level at time of soil borings - Elevation 482.95
Comments: 0



Midwest Testing Services, Inc.

3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 3

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

Client: Chamlin & Associates, Inc.
Project Name: Seneca River Road Bridge
Project Site: Seneca, IL.

Boring No. B-2
Surface Elev. 498.79
Auger Depth 46' Rotary Depth NA
Start Date 08/14/21 Finish Date 08/14/21

Location: As staked by Chamlin & Associates

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
498.79											
497.79	8.5" Bituminous Over 12.5' Aggregate		1								
496.79			2								
495.79			3	1	SS	---	20	---	10		
494.79	Medium Brown Fine To Coarse Gravel Mixed With Clay		4								
493.79			5								
492.79			6	2	SS	---	14	---	10		
491.79			7								
490.79			8	3	SS	---	12	---	8		
489.79	Medium Brown Fine To Coarse Sand		9								
488.79			10								
487.79			11	4	SS	---	10	---	8		
486.79			12								
485.79			13	5	SS	---	6	---	9		
484.79	Loose Brown Fine Sand With Clay Seams		14								
483.79			15								
482.79			16	6	SS	---	8	---	9		
481.79			17								
480.79			18	7	SS	---	4	---	---		
479.79	Loose To Very Loose Brown Fine Sand		19								
478.79			20	8	SS	---	3	---	---		

Groundwater Data: Static water level at time of soil borings - Elevation 482.95
Comments:

SHEET 13 OF 14

CONTRACT NO. 87882

DRAWN BY: NV	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 10/2021				



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OTTAWA MENDOTA
ILLINOIS

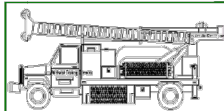
VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

SOIL BORINGS
STRUCTURE NO. SN 050-7800

CONSTRUCTION
PLANS

CURRENT AS OF: 03/24/2025	
SCALE: AS NOTED	SHEET 24
FILE NO.: 111441.00 Y-	OF 34

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

BORING LOG

Sheet 2 of 3

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

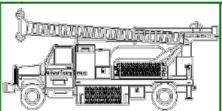
Client: Chamlin & Associates, Inc.
Project Name: Seneca River Road Bridge
Project Site: Seneca, IL.

Boring No. B-2
Surface Elev. 498.79
Auger Depth 46' Rotary Depth NA
Start Date 08/14/21 Finish Date 08/14/21

Location: As staked by Chamlin & Associates

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						Dry Density (PCF)	DRILLED BY
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		REMARKS
477.79											
476.79			22								
475.79			23	9	SS	---	16	---	---		
474.79	Medium To Brown Fine To Coarse Sand		24								
473.79			25								
472.79			26	10	SS	---	19	---	---		
471.79			27								
470.79			28	11	SS	---	33	---	---		
469.79			29								
468.79			30								
467.79			31	12	SS	---	37	---	---		
466.79	Dense Brown Fine To Coarse Sand With Cobbles At 37' Depth		32								
465.79			33								
464.79			34								
463.79			35								
462.79			36	13	SS	---	34	---	---		
461.79			37								
460.79	Cobbles		38								
459.79			39								
458.79	Very Dense Dark Gray Shale		40								
457.79			41	14	SS	---	87	---	10		

Groundwater Data: Static water level at time of soil borings - Elevation 482.95
Comments:



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

BORING LOG

Sheet 3 of 3

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

Client: Chamlin & Associates, Inc.
Project Name: Seneca River Road Bridge
Project Site: Seneca, IL.

Boring No. B-2
Surface Elev. 498.79
Auger Depth 46' Rotary Depth NA
Start Date 08/14/21 Finish Date 08/14/21

Location: As staked by Chamlin & Associates

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						Dry Density (PCF)	DRILLED BY
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		REMARKS
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455.79			43								
454.79	Very Dense Dark Gray Shale		44								
453.79			45								
452.79			46	16	SS	---	100 3"	---	---		
451.79			47								
450.79			48								
449.79			49								
448.79			50								
447.79			51								
446.79			52								
445.79			53								
444.79			54								
443.79			55								
442.79			56								
441.79			57								
440.79			58								
439.79			59								
438.79			60								
437.79			61								
436.79			62								

Groundwater Data: Static water level at time of soil borings - Elevation 482.95
Comments:

SHEET 14 OF 14

CONTRACT NO. 87882

DRAWN BY: NV	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 10/2021				



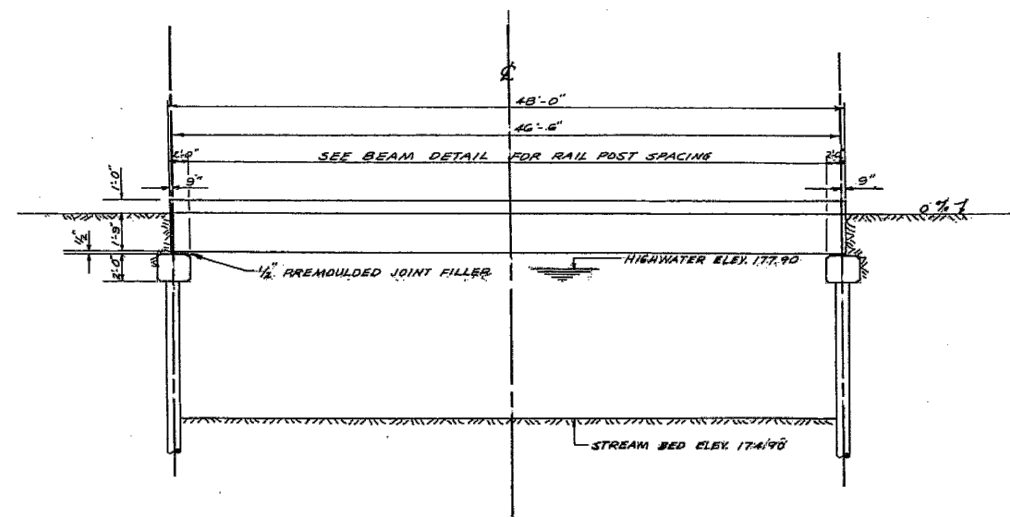
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

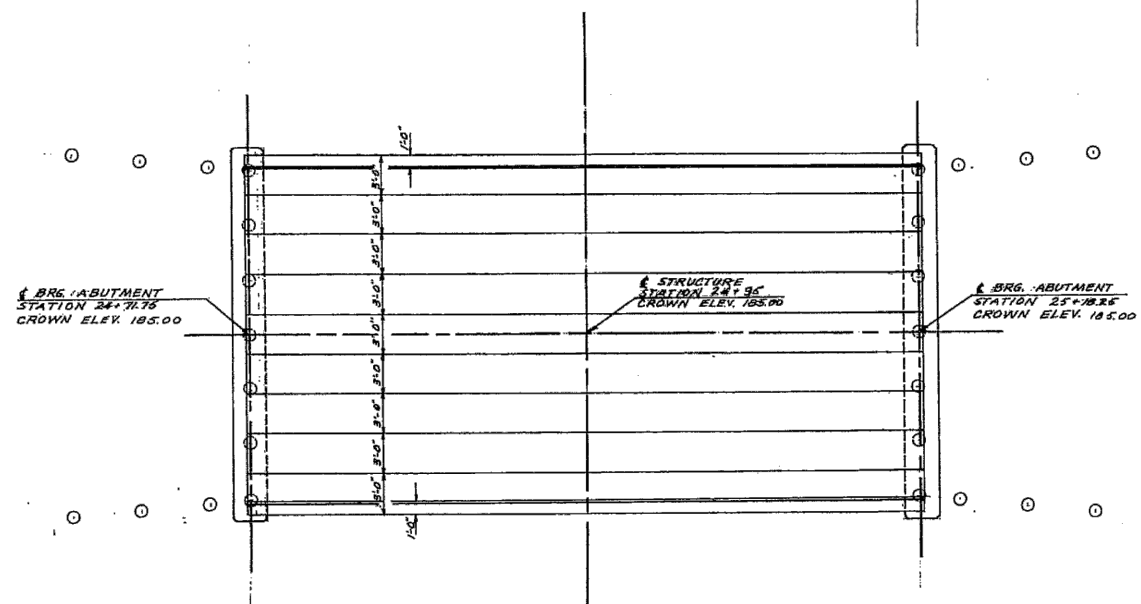
SOIL BORINGS
STRUCTURE NO. SN 050-7800

CONSTRUCTION
PLANS

CURRENT AS OF: 03/24/2025	
SCALE: AS NOTED	SHEET 25
FILE NO.: 111441.00 Y-	OF 34



ELEVATION



PLAN

GENERAL NOTES 5

- SEE SPECIAL PROVISIONS FOR ITEMS "PRECAST, PRESTRESSED CONCRETE BRIDGE SLABS" AND "PRECAST CONCRETE CAPS."
- ALL PILES AND HARDWARE SHALL BE FURNISHED AND PAID FOR ACCORDING TO SEC. 57 OF THE STANDARD SPECIFICATIONS, STATE OF ILLINOIS
- ALL WASHERS, NUTS, BOLTS AND RODS SHALL BE HOT DIPPED GALVANIZED STEEL AND SHALL BE INCLUDED FOR PAYMENT AS HARDWARE WITH THE EXCEPTION OF THE HARDWARE NECESSARY FOR INSTALLMENT OF THE PRECAST, PRESTRESSED CONCRETE PLANK AND PRECAST PRESTRESSED CONCRETE BRIDGE SLAB WHICH SHALL BE PAID FOR IN THE UNIT PRICE BID FOR SAID ITEMS.
- SEE SPECIAL PROVISIONS FOR ITEMS "METAL PLATE BRIDGE RAIL AND PRECAST PRESTRESSED CONCRETE PLANK."
- CONTRACTOR TO DRIVE 2 TEST PILE AS DIRECTED BY THE ENGINEER BEFORE ORDERING REMAINDER OF PILES.
- FOR PLACING BACKFILL: SEE ART. 50.02 OF THE STANDARD SPECIFICATIONS.
- ALL PILES AND LUMBER SHALL BE CROSTED.
- ALL STEEL AND LUMBER IN THE EXISTING STRUCTURE SHALL REMAIN THE PROPERTY OF THE COUNTY AND SHALL BE STOCKPILED AT THE BRIDGE SITE AS DIRECTED BY THE ENGINEER."

WATERWAY INFORMATION

DRAINAGE AREA ..	1,760	AC.
PROPOSED OPENING	133	SQ. FT.
REQUIRED OPENING	132	SQ. FT.
EXISTING OPENING	120	SQ. FT.
CHARACTER.	ROLLING, TIMBER	

PILE DATA

TYPE - 12" x CREOSOTED TIMBER
ESTIMATED LENGTH - 25'-0"
NO. REQUIRED - 24 + 2 TEST PILES
MIN. CAP. (ABUT. PILE: 20 TON) (WING PILE: 10 TON) (PILE)

NAME PLATE

SECTION 79-63 B
BUILT 1963 BY
LA SALLE COUNTY,
BROOKFIELD TWP.
LOADING H15-512

DRAWN BY: NV CHECKED BY: JKC DATE: 10/2021	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION



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ILLINOIS

VILLAGE OF SENECA
RIVER ROAD BRIDGE REPLACEMENT
SECTION 21-00020-00-BR

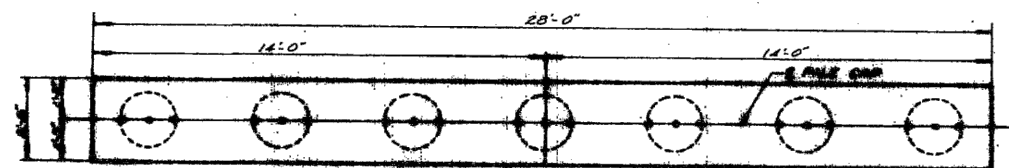
**EXISTING PLANS
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CONSTRUCTION PLANS

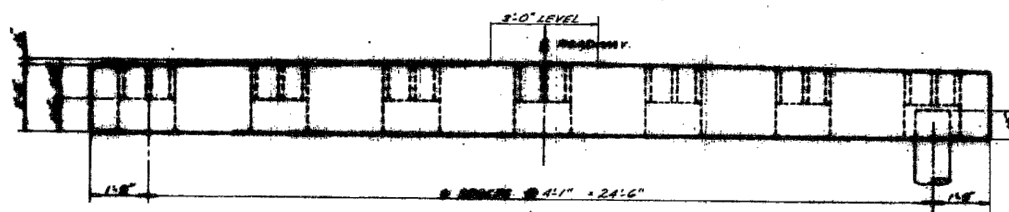
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CURRENT AS OF: 03/24/2025			
SCALE: AS NOTED		SHEET	26
FILE NO.: 111441.00 Y-		OF	34

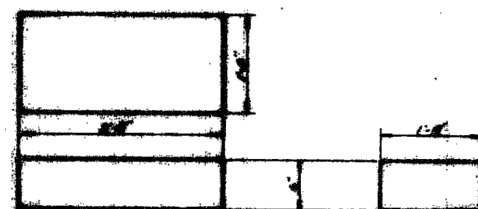
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Drawing Name: G:\Users\jim.clinard\OneDrive - Seneca-River Road Bridge Replacement-PLANS\26-033-EXIST-PLANS.dwg Last Modified: Tuesday, March 18, 2025 3:51:15 PM Plotted On: Wednesday, March 19, 2025 3:50:40 PM by Jim Clinard



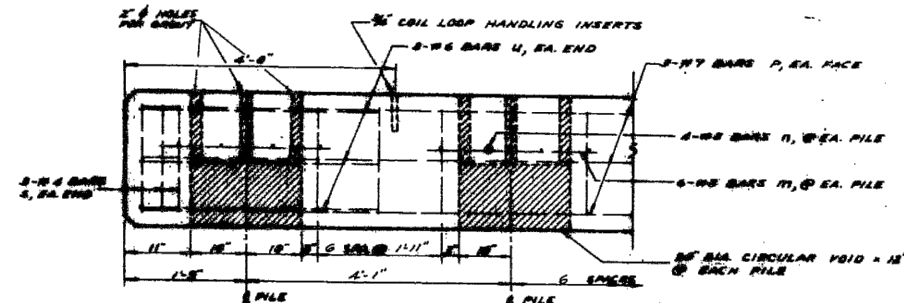
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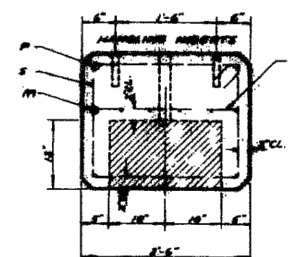
ELEVATION



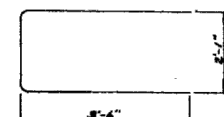
DETAIL OF GROUND END TO BE
FILLED WITH GROUT AFTER PILE CAP
HAS BEEN POSITIONED OVER PILES



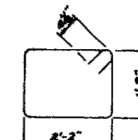
PARTIAL ELEVATION
SHOWING REINFORCEMENT



END VIEW
SHOWING REINFORCEMENT



BAR U



BAR S

BILL OF MATERIAL PRECAST CONCRETE GAP				
BAR	NO.	SIZE	LENGTH	QUANTITY
M	42	#8	8'-6"	42
N	20	#8	2'-0"	20
P	6	#7	8'-6"	6
S	6	#8	8'-6"	6
U	6	#8	8'-6"	6
CL. X CONCRETE		CL. FOR		
REINFORCEMENT BARS		400		
1/2 COIL LOOPS		20		4

THIS INFORMATION FOR FABRICATOR
OF PRECAST CONCRETE GAP HARD-
WARE IS FOR 1 GAP ONLY.

NOTE: PRECAST CONCRETE GAP IS NOT
PRESTRESSED

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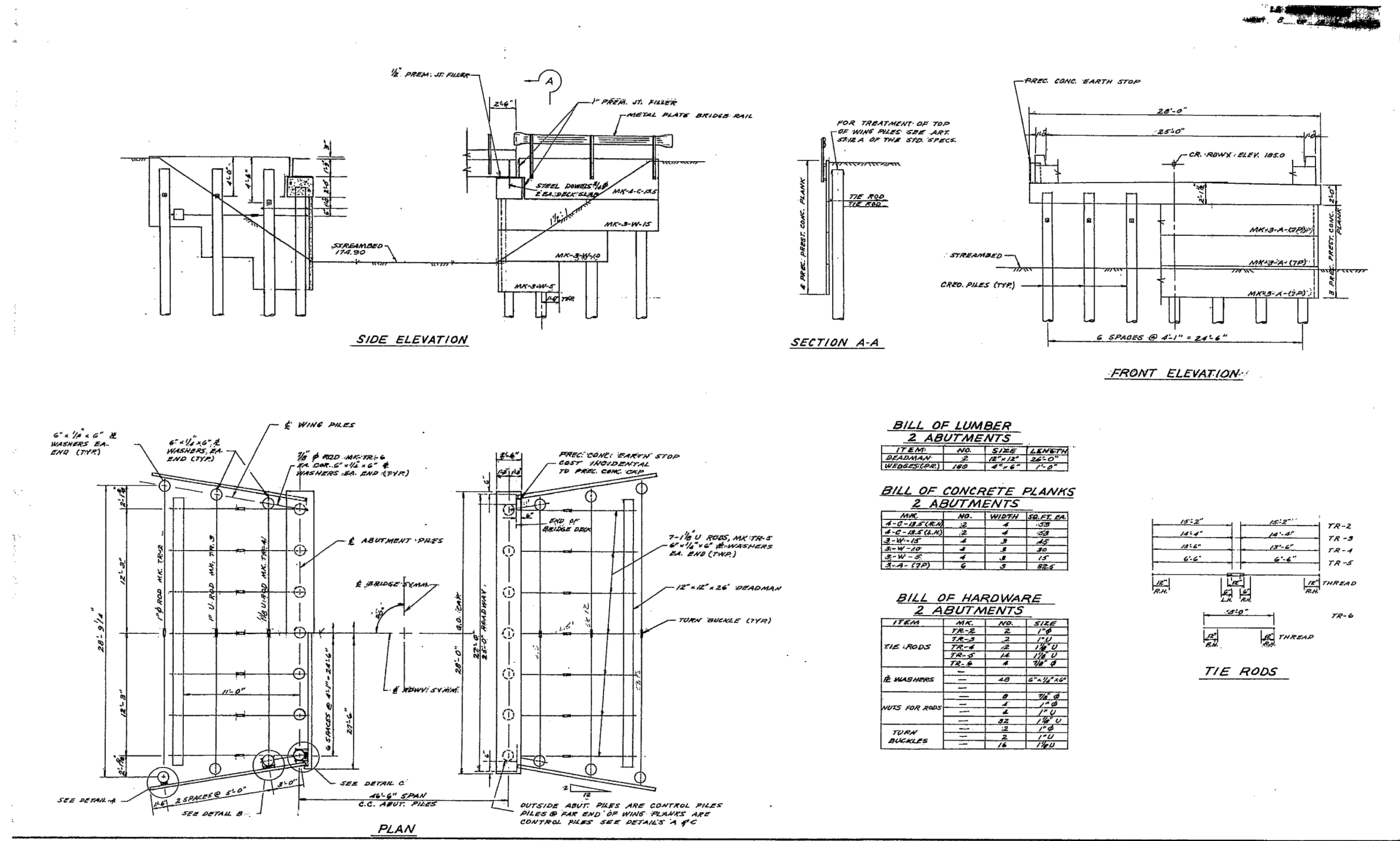
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CONSTRUCTION
PLANS

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**BILL OF LUMBER
2 ABUTMENTS**

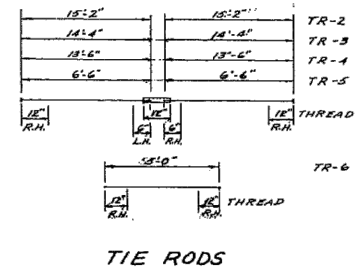
ITEM	NO.	SIZE	LENGTH
DEADMAN	2	12" x 12"	26'-0"
WEDGES (PR)	180	4" x 6"	1'-0"

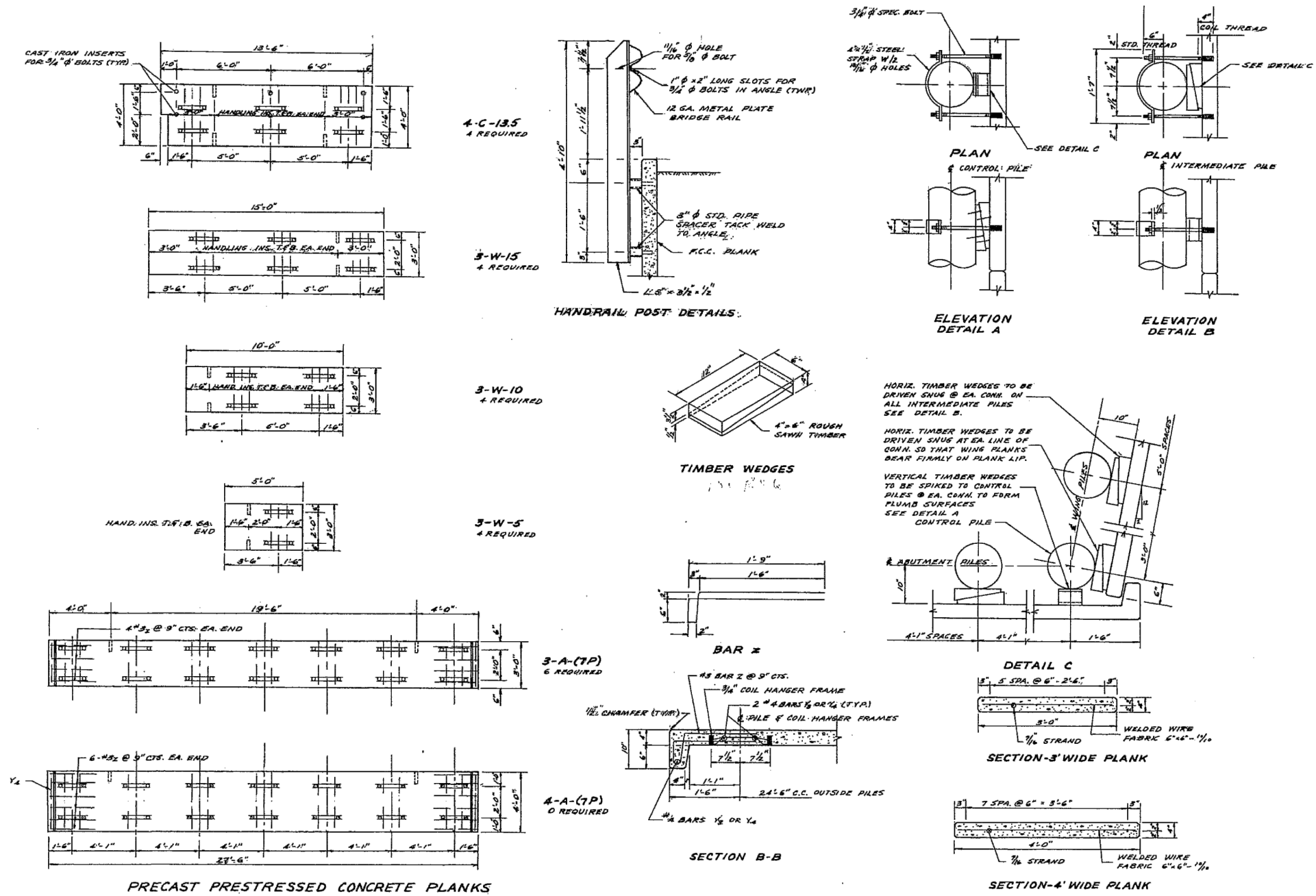
**BILL OF CONCRETE PLANKS
2 ABUTMENTS**

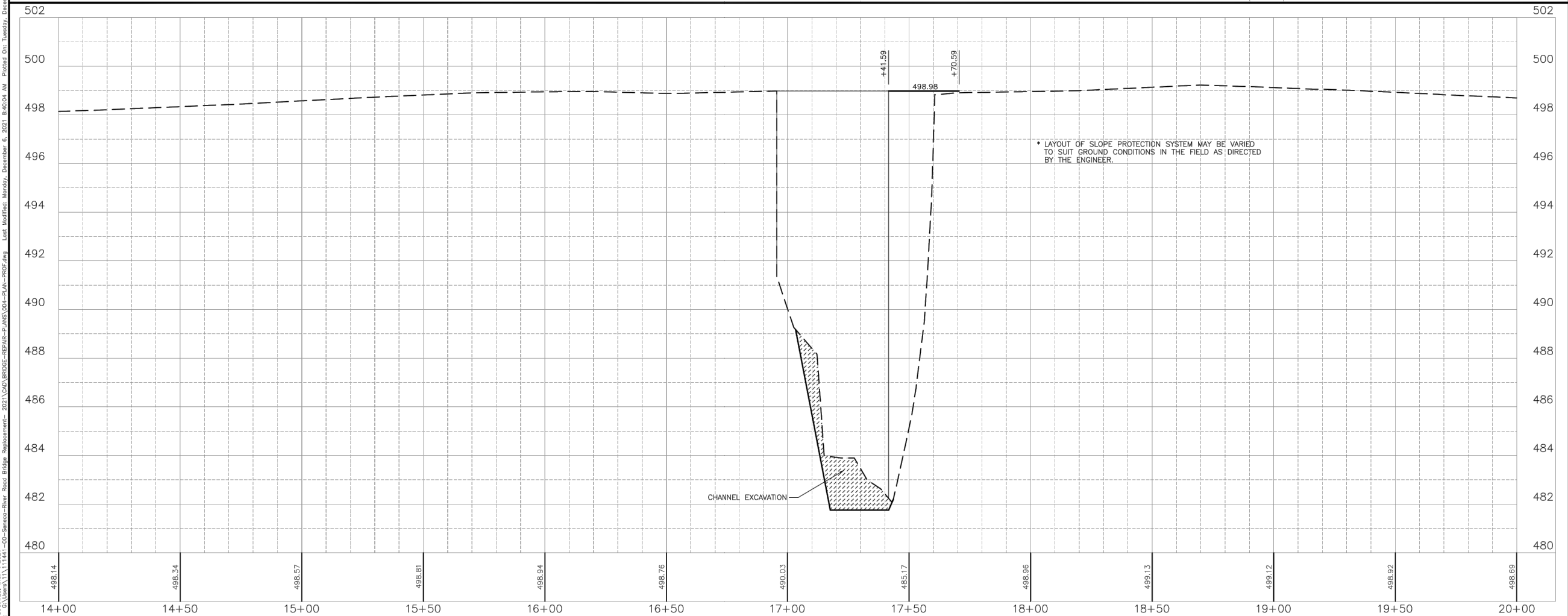
MARK	NO.	WIDTH	SP. FT. EA.
A-C-18.5 (L.R)	2	4	33
A-C-18.5 (L.R)	2	4	33
3-W-15	4	3	35
3-W-10	4	3	30
3-W-5	4	3	15
3-A- (TP)	6	3	SEE

**BILL OF HARDWARE
2 ABUTMENTS**

ITEM	MARK	NO.	SIZE
TIE RODS	TR-2	2	1" Ø
	TR-3	2	1 1/4" Ø
	TR-4	2	1 1/4" Ø
	TR-5	16	1 1/4" Ø
	TR-6	4	1 1/4" Ø
WASHERS	---	40	6" x 1 1/2" x 3/16"
	---	8	3/4" Ø
NUTS FOR RODS	---	4	1" Ø
	---	4	1 1/4" Ø
TURN BUCKLES	---	16	1 1/4" Ø
	---	2	1" Ø

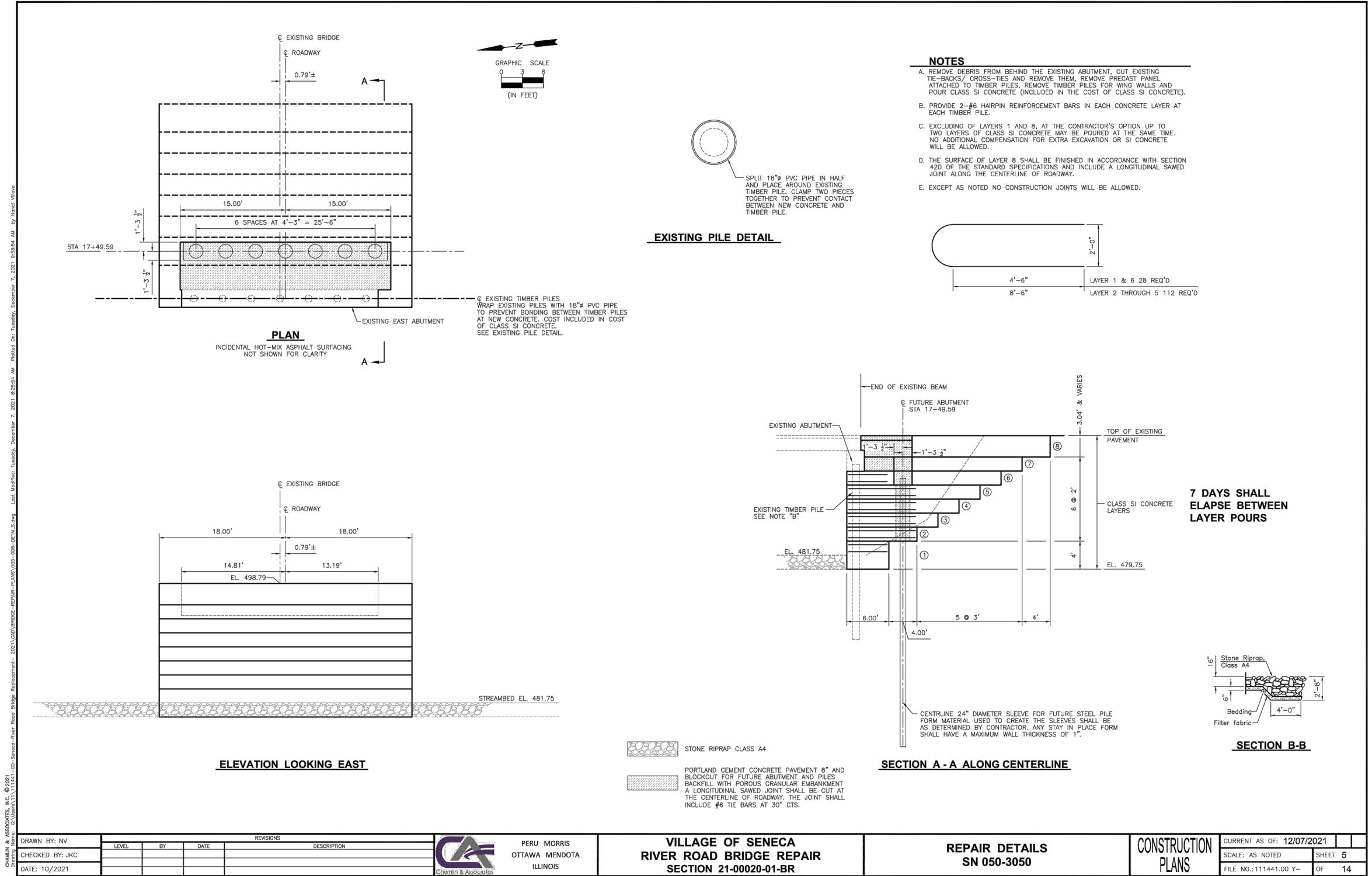






					CONT			
REVISIONS				 Chamin & Associates PERU MORRIS OTTAWA MENDOTA ILLINOIS	VILLAGE OF SENECA RIVER ROAD BRIDGE REPLACEMENT SECTION 21-00020-00-BR	EXISTING PLANS FOR INFORMATION ONLY	CONSTRUCTION PLANS	CURRENT #
LEVEL	BY	DATE	DESCRIPTION					SCALE: AS
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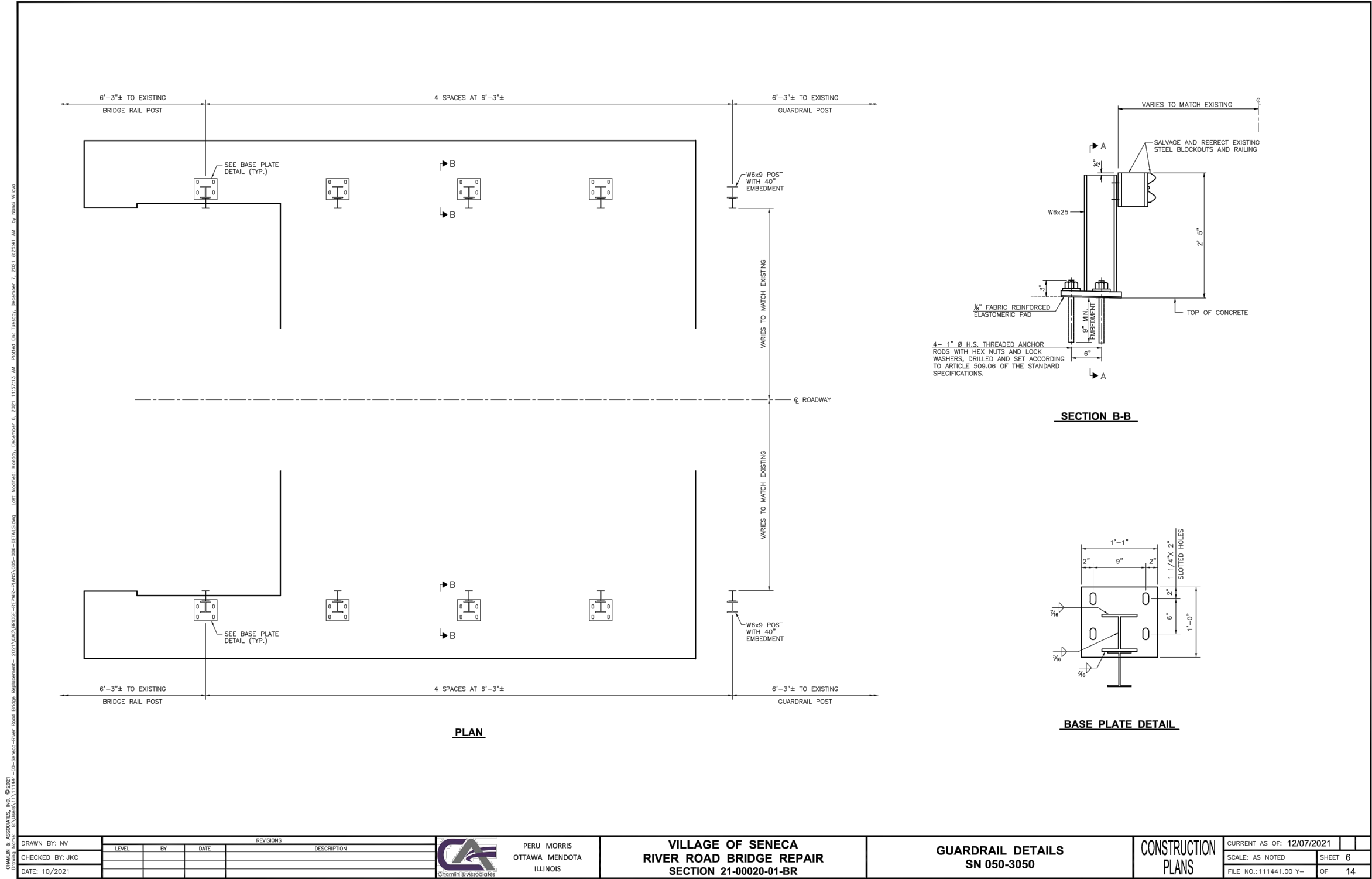
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	CHECKED BY: JKC	LEVEL	BY	DATE	DESCRIPTION									SCALE: AS NOTED	SHEET 32	
	DATE: 10/2021													FILE NO.: 111441.00 Y-	OF 34	

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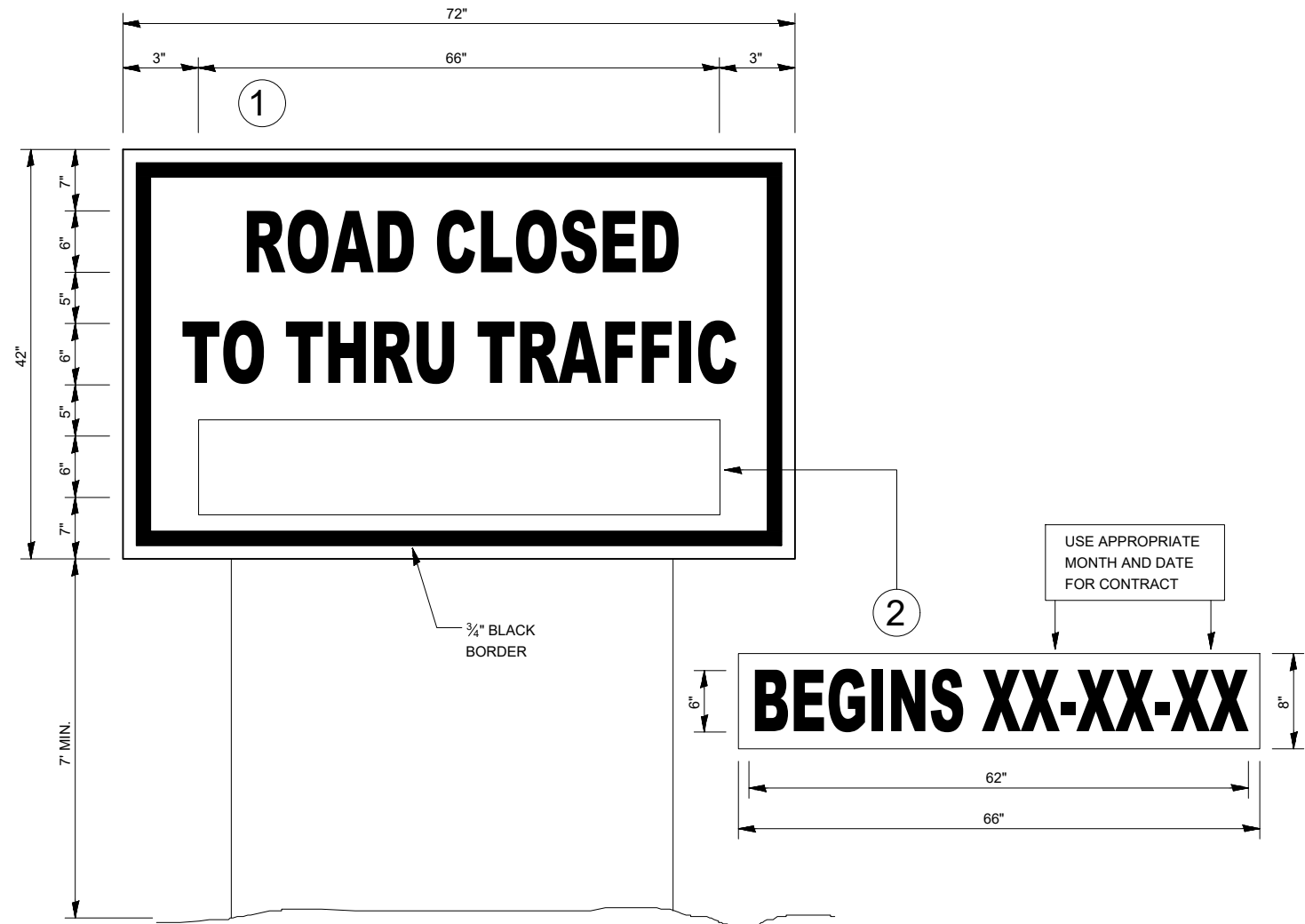
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TEMPORARY INFORMATION SIGNING

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 SIGN①WITH INSTALLED PANEL②A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL②ON 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 PANEL②WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

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TEMPORARY INFORMATION
SIGNING DETAIL

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