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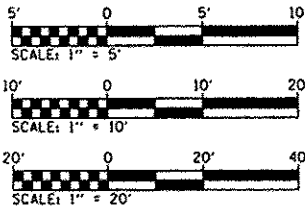
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HIGHWAY STANDARDS

000001-06	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
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
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601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
604001-03	FRAME AND LIDS TYPE 1
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
BLR22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

DESIGN DESIGNATION

ROADWAY CLASSIFICATION = URBAN COLLECTOR
DESIGN SPEED = 30 MPH
CURRENT ADT (2013) = 1,200
DESIGN YEAR ADT (2033) = 1,800



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

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

CLINTON STREET BRIDGE RECONSTRUCTION

FAU ROUTE 9134

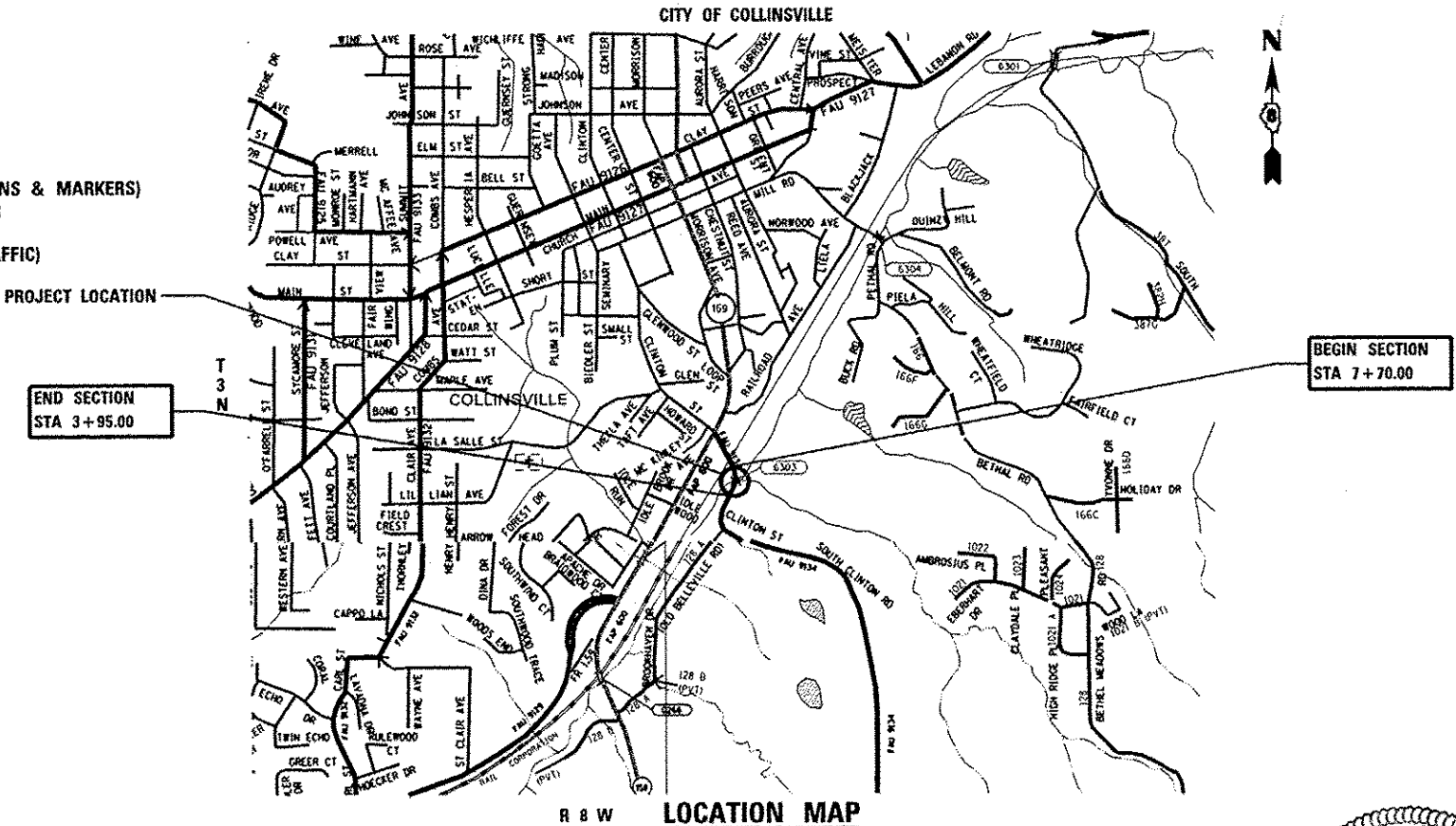
SECTION: 10-00091-02-BR

PROJECT: BRM-5011(305)

JOB NO.: C-98-333-10

CITY OF COLLINSVILLE

MADISON COUNTY



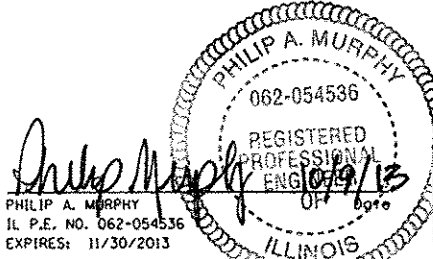
LOCATION MAP

SCALE: 1" = 1,000'

GROSS LENGTH OF RECONSTRUCTION: 375.0 (0.071 MILES)
NET LENGTH OF RECONSTRUCTION: 375.0 (0.071 MILES)

SCALE IN FEET

PLAN	1" = 20'
PROFILE HORIZ	1" = 20'
PROFILE VERT	1" = 5'
CROSS SECTION HORIZ	1" = 10'
CROSS SECTION VERT	1" = 5'

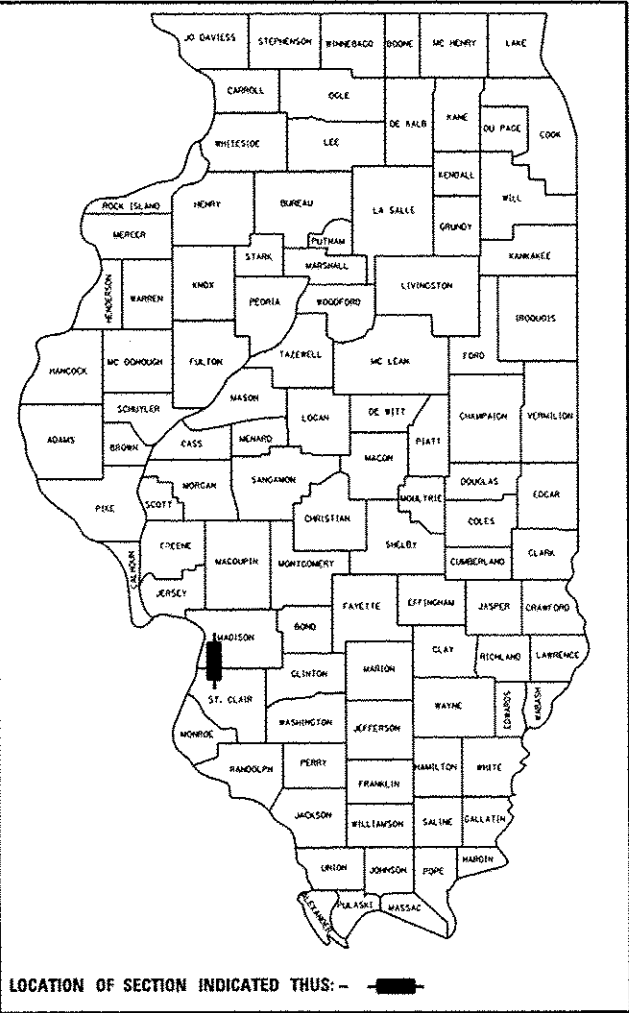


ILLINOIS
Eastport Business Center 1
100 Lanier Court, Suite 1
Collinsville, IL 62234
tel 618.345.2200
fax 618.345.7233
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720 Olive, Suite 1600
St. Louis, MO 63101
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9134	10-00091-02-BR	MADISON	36	1
FEDERAL AID PROJECT		ILLINOIS	CONTRACT NO. 97543	



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	10-10-13 DATE
JOHN MILLER MAYOR OF COLLINSVILLE	
PASSED	Oct 31 2013 DATE
J. A. C. H. DISTRICT 8 PROJECT IMPLEMENTATION ENGINEER	
RELEASING FOR BID BASED ON LIMITED REVIEW	Oct 31 2013 DATE
J. L. Keim DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER	

GENERAL NOTES

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED TO BE APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. ILLINOIS LAW REQUIRES A MINIMUM 48-HOUR NOTICE TO ALL UTILITY COMPANIES BEFORE DIGGING. FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY CALLING THE J.U.L.I.E. SYSTEM AT 800-892-0123 AND PROVIDING 48 HOURS ADVANCE NOTICE. NON-J.U.L.I.E MEMBERS MUST BE NOTIFIED INDIVIDUALLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED BELOW.

2. ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.

3. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF J.U.L.I.E., UNLESS NOTED OTHERWISE.

ATT (LOCAL) (TELEPHONE)
2501 NORTH CENTER STREET
MARYVILLE, IL 62062
(618) 346-6426

ATT (LONG DISTANCE) (TELEPHONE)
866 ROCK CREEK ROAD
PLANO, IL 60545
(630) 552-9785

CHARTER COMMUNICATIONS (COMMUNICATIONS)
210 WEST DIVISION STREET
MARYVILLE, IL 62062
(618) 345-8121

CITY OF COLLINSVILLE (SANITARY SEWER)
125 SOUTH CENTER STREET
COLLINSVILLE, IL 62234
(618) 344-5200

VILLAGE OF CASEYVILLE (WATER)
909 SOUTH MAIN STREET
CASEYVILLE, IL 62232
(618) 344-1234

AMEREN IP (GAS & ELECTRIC)
2600 NORTH CENTER
MARYVILLE, IL 62062
(618) 346-1287

4. THE ABOVE INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO THE LOCAL AGENCY AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.

5. IN CASE OF CONFLICT BETWEEN THE CONSTRUCTION PLANS AND THE RIGHT OF WAY PLANS, THE RIGHT OF WAY PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING RIGHT OF WAY AND EASEMENTS. THE CONSTRUCTION PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING CONSTRUCTION ITEMS.

6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.

7. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

8. THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER, SEEDING AND MULCH WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING AND MULCH OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT. SEE THE SEEDING SCHEDULE FOR ESTIMATED PLAN QUANTITIES.

9. WHERE TREE REMOVAL CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LINE AND GRIND THE STUMP AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS TREE REMOVAL ITEMS INCLUDED IN THE CONTRACT.

10. IF ASH TREES ARE TO BE REMOVED FROM THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. IDOA INFORMATION REGARDING ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.

11. EARTH EXCAVATION INCLUDES THE REMOVAL OF THE EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE AND AGGREGATE BASE. THE CONTRACTOR MAY INCORPORATE THESE MATERIALS INTO THE PROPOSED EMBANKMENT. SURPLUS AND/OR UNSUITABLE MATERIAL SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."

12. PRIOR TO STARTING EARTHWORK OPERATIONS IN AREAS THAT DO NOT REQUIRE EXCAVATION, THE EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE SHALL BE SCARIFIED OR BROKEN BY MECHANICAL MEANS, REDUCING ALL PARTICLES TO A SIZE NOT LARGER THAN 3 INCHES IN THE LARGEST DIMENSION. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

13. THE FOLLOWING SYMBOLS, ABBREVIATIONS AND PATTERNS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:

BO	BY OTHERS (USED IN CONJUNCTION WITH TBA & TBR)
CONSTR	CONSTRUCTION
CP	CONTROL POINT
ESMT	EASEMENT
FO	FIBER OPTIC
K	LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
N/F	NOW OR FORMERLY
O/C	OIL AND CHIP
PERM	PERMANENT
PVI	POINT OF VERTICAL INTERSECTION
PVC	POLYVINYL CHLORIDE PIPE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TUP	TEMPORARY USE PERMIT
TBA	TO BE ADJUSTED
TBR	TO BE RELOCATED
TYP	TYPICAL
W	WIDTH

COMMITMENTS

NONE

ALIGNMENT TIE POINTS

DESCRIPTION:	OFFSET	NORTHING:	EASTING:
P.O.T. 0+00.00	CL	2,349,054.98	726,523.68
P.C. 4+06.68	CL	2,349,223.48	726,153.55
P.T. 4+86.09	CL	2,349,247.93	726,078.17
P.C. 5+88.29	CL	2,349,268.27	725,978.02
P.T. 8+05.14	CL	2,349,185.53	725,792.38

FILE NAME : D828848-shi-gennote.dgn	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, UTILITIES, COMMITMENTS, & ALIGNMENT TIE POINTS					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT TIME = 8/26/13 AM	DRAWN -	REVISED -							9134	10-00091-02-BR	MADISON	36	2
	PLOT SCALE = 40,0000' / IN.	CHECKED -	REVISED -		CLINTON ST BRIDGE RECONSTRUCT		CONTRACT NO. 97543							
	PLOT DATE = 10/18/2013	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									
						SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.2
S 20200100	EARTH EXCAVATION	CU YD	440
S 20800150	TRENCH BACKFILL	CU YD	133
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20
28000400	PERIMETER EROSION BARRIER	FOOT	440
S 28100105	STONE RIPRAP, CLASS A3	SQ YD	12
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,309
28200200	FILTER FABRIC	SQ YD	1,321
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	798
40701841	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"	SQ YD	731
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	44
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	261
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	229.5

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
50300255	CONCRETE SUPERSTRUCTURE	CU YD	392.7
50300260	BRIDGE DECK GROOVING	SQ YD	540
50300280	CONCRETE ENCASEMENT	CU YD	4.8
50300300	PROTECTIVE COAT	SQ YD	767
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	2,380
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	103,050
* 50901720	BICYCLE RAILING	FOOT	100
* 50901750	PARAPET RAILING	FOOT	192
51201600	FURNISHING STEEL PILES HP12X53	FOOT	754
51201800	FURNISHING STEEL PILES HP14X73	FOOT	832
51202305	DRIVING PILES	FOOT	1,586
51203600	TEST PILE STEEL HP12X53	EACH	1
51203800	TEST PILE STEEL HP14X73	EACH	1
51204650	PILE SHOES	EACH	28
51500100	NAME PLATES	EACH	1
52100510	ANCHOR BOLTS, 3/4"	EACH	10

NOTES: S SEE PROJECT SPECIFIC SPECIAL PROVISIONS * SPECIALTY ITEM

FILE NAME : D028048-shc-500.dgn	USER NAME : default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	SCALE: NTS	SHEET NO. 1 OF 2	SHEETS	STA.	TO STA.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT TIME : 8:26:15 AM	DRAWN -	REVISED -								9134	10-00091-02-BR	MADISON	36	3
	PLOT SCALE : 48.0000' / IN.	CHECKED -	REVISED -								CLINTON ST BRIDGE RECONSTRUCT				
	PLOT DATE : 10/18/2013	DATE -	REVISED -								ILLINOIS FED. AID PROJECT CONTRACT NO. 97543				

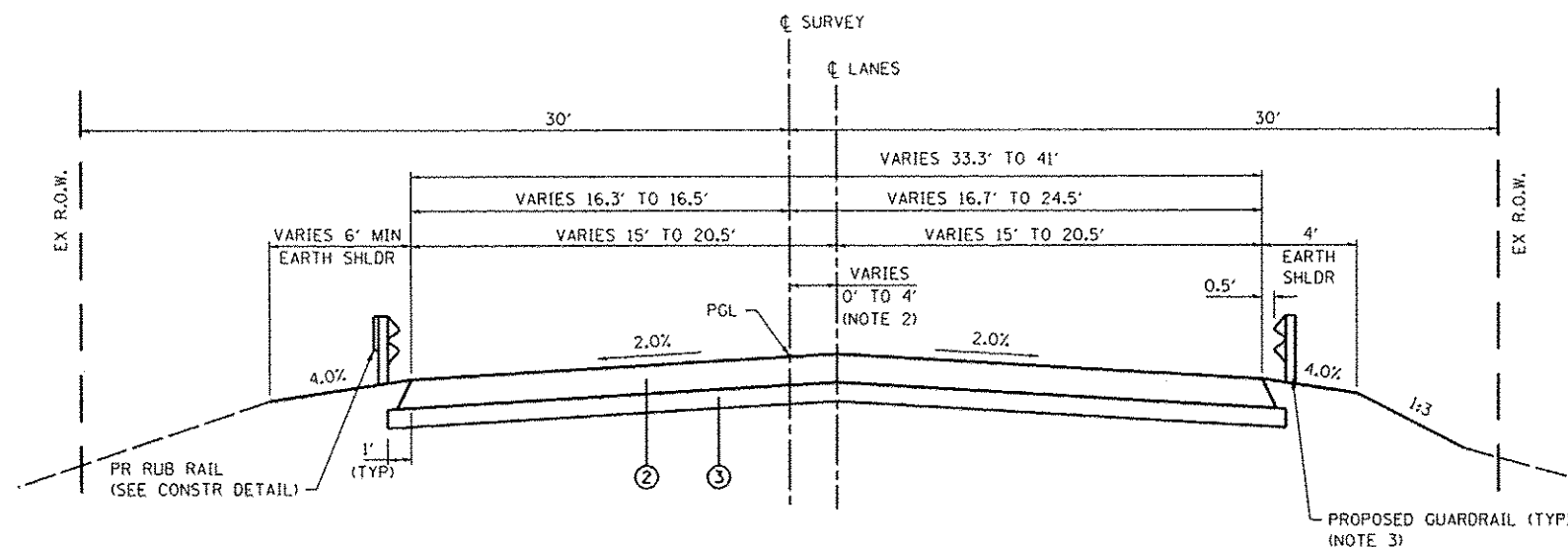
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	42
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	62.5
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2
63100Q70	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1
63200310	GUARDRAIL REMOVAL	FOOT	280
67100100	MOBILIZATION	L SUM	1
72000100	SIGN PANEL - TYPE 1	SO FT	41.0
72900100	METAL POST - TYPE A	FOOT	78
72900200	METAL POST - TYPE B	FOOT	28
78200410	GUARDRAIL MARKERS, TYPE A	EACH	6
78200530	BARRIER WALL MARKERS, TYPE C	EACH	4
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	158
* S	Z0056900	SANITARY SEWER 8"	FOOT	15
* S	Z0067600	STEEL CASINGS 18"	FOOT	160
* S	X0322786	SANITARY SEWER TESTING	L SUM	1
* S	X0840000	SANITARY SEWER REMOVAL 8"	FOOT	272
	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	74
* S	X6022830	MANHOLES, SANITARY, 6'-DIAMETER, TYPE I FRAME, CLOSED LID	EACH	1
* S	X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	1
* S	X6330705	RUB RAIL	FOOT	120
S	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
* S	XX001386	SANITARY SEWERS, PVC, 8"	FOOT	271
S	XX004446	SEEDING, CLASS 2 SPECIAL	SQ YD	509
S	XX005431	LOCATING UNDERGROUND UTILITY	EACH	1
Δ	Z0076600	TRAINEES	Hour	1,000
Δ	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	1,000

NOTES: S SEE PROJECT SPECIFIC SPECIAL PROVISIONS • SPECIALTY ITEM

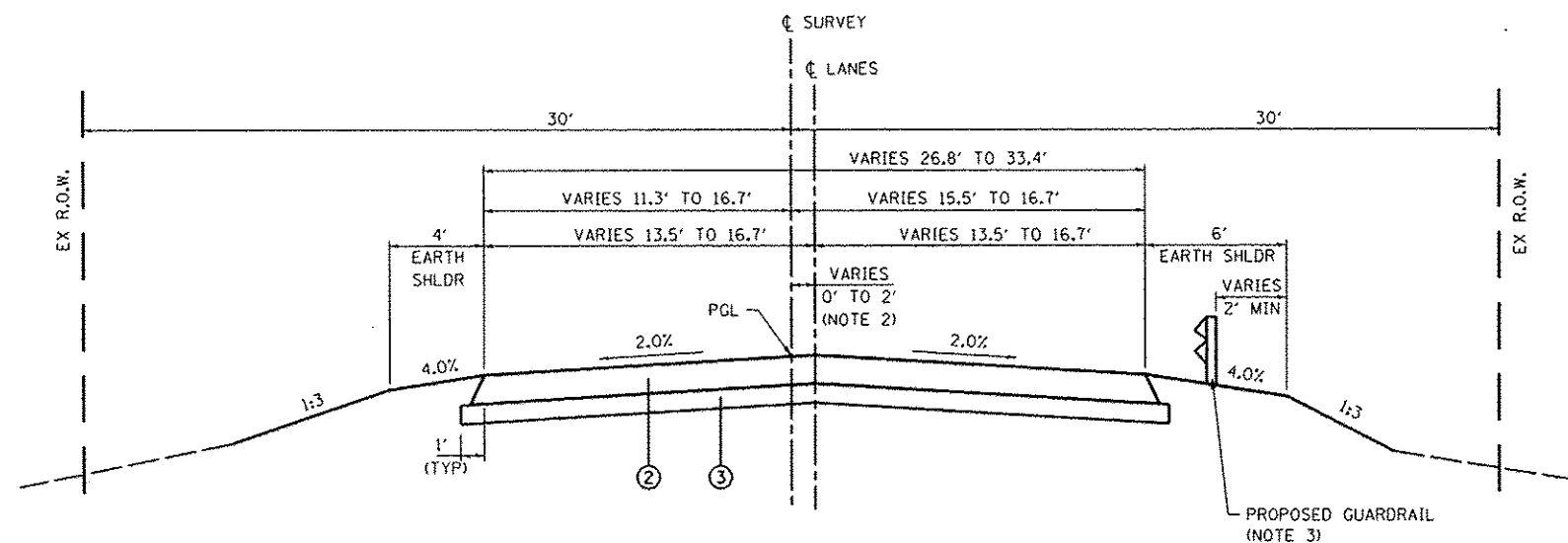
Δ CONSTRUCTION CODE TYPE 0042

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DB28048-wht-500.dgn	PLOT TIME = 8:26:15 AM	DRAWN -	REVISED -		9134	10-00091-02-BR	MADISON	36	4				
	PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -		CONTRACT NO. 97543								
	PLOT DATE = 10/18/2013	DATE -	REVISED -		SCALE: NTS	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



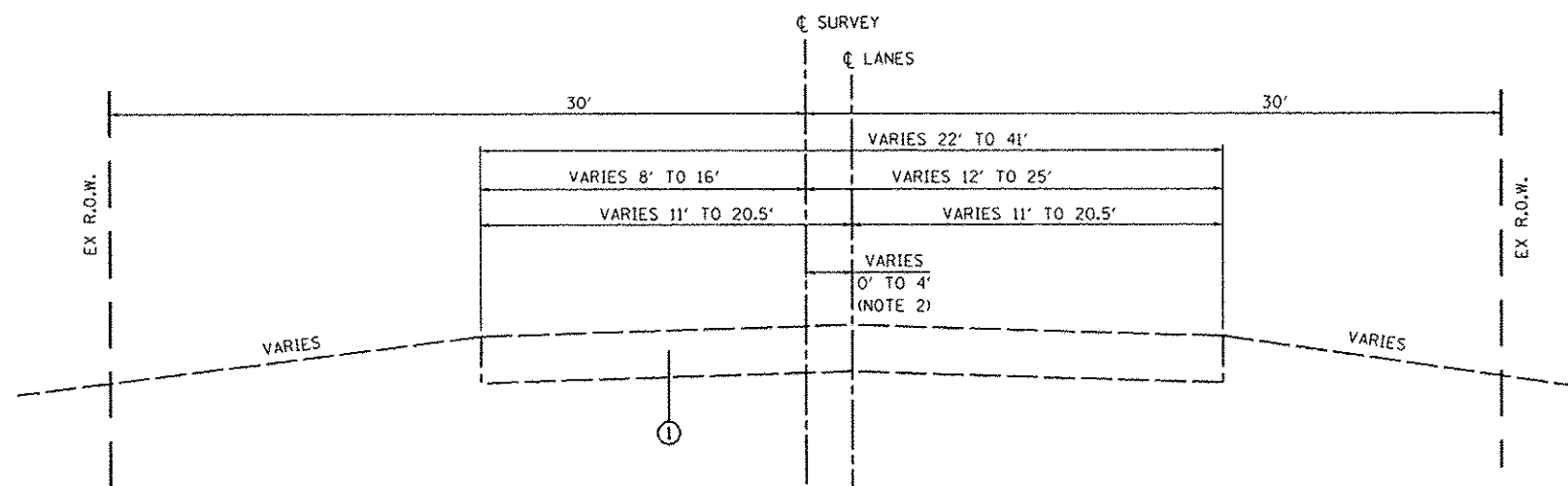
PROPOSED SOUTH CLINTON

STA. 6+26.47 TO STA. 7+70.00 (NOTE 1)



PROPOSED SOUTH CLINTON

STA. 3+95.00 TO STA. 4+52.98 (NOTE 1)



EXISTING SOUTH CLINTON

NOTES

1. STRUCTURE, BRIDGE APPROACH PAVEMENT, CONNECTOR PAVEMENT OMISSION STA. 4+52.98 TO STA. 6+26.47
2. SEE ROADWAY GRADING PLAN AND CROSS SECTIONS FOR ROADWAY CROWN OFFSET FROM SURVEY ϕ . THE CROWN IS LOCATED ϕ SURVEY WITHIN THE STRUCTURE OMISSION RANGE LISTED IN NOTE 1.
3. SEE PLAN SHEET AND CROSS SECTIONS FOR GUARDRAIL LOCATIONS

HOT-MIX ASPHALT DESIGN MIX TABLE		
MIXTURE USE	SURFACE COURSE (FULL DEPTH)	BINDER COURSE (FULL DEPTH)
THICKNESS	2"	6"
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	15%	15%
DESIGN AIR Voids	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION	IL-9.5 or IL-12.5	IL-19.0
FRICTION AGG	MIXTURE "D"	MIXTURE "B"
DENSITY TEST METHOD	CORES / NUCLEAR	CORES / NUCLEAR

STRUCTURAL DESIGN TRAFFIC:	YEAR:	2023
PV = 1,320	SU = 105	MU = 75
ROAD/STREET CLASSIFICATION:	CLASS:	III
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P = 88%	S = 7%	M = 5%
TRAFFIC FACTOR:	ACTUAL = 0.41	
	MIN = N/A	
PG GRADE:	BINDER: 64-22	SURFACE: 64-22
STRUCTURAL SUPPORT RATING:		
SSR = POOR		

TYPICAL SECTION LEGEND

- 1 EXISTING AGGREGATE BASE WITH BITUMINOUS SURFACE TREATMENT
- 2 PROPOSED HOT-MIX ASPHALT PAVEMENT, FULL DEPTH 8"
- 3 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 4"

SEE CROSS SECTIONS FOR VARIABLE DIMENSIONS

FILE NAME :	USER NAME : default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D020048-ehc-typical.dgn	PLOT TIME : 8:26:17 AM	DRAWN -	REVISED -						9134	10-00091-02-BR	MADISON	36	5
	PLOT SCALE : 48.000' / IN.	CHECKED -	REVISED -		CLINTON ST BRIDGE RECONSTRUCT				CONTRACT NO. 97543				
	PLOT DATE : 10/10/2013	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

TREE REMOVAL SCHEDULE

STATION	STATION	OFFSET	TREE REMOV ACRES (ACRE)
4+65	5+30	LT	0.07
4+80	5+35	RT	0.05
5+50	6+00	LT	0.05
5+55	6+15	RT	0.03
TOTAL			0.2

PAVEMENT SCHEDULE

STATION	STATION	SUB GRAN MAT A 4 (SQ YD)	HMA PAVT FD 8 (SQ YD)	BR APPR PVT CON (FLX) (SQ YD)
3+95	4+56	216		
3+95	4+53		192	
4+53	4+59			22
6+20	6+26			22
6+26	7+70		539	
6+23	7+70	582		
TOTAL		798	731	44

EARTHWORK SCHEDULE

STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (NOTE 3) (CU YD)
3+95	4+90	115	85	120	-35
5+92	7+70	325	245	60	185
TOTAL		440	330	180	150

EARTHWORK NOTES:

- ESTIMATED SHRINKAGE FACTOR = 25%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.

SEEDING SCHEDULE

STATION	STATION	OFFSET	SEEDING CL 2 SPL (SQ YD)	NITROGEN FERT NUTR (NOTE 1) (POUND)	PHOSPHORUS FERT NUTR (NOTE 1) (POUND)	POTASSIUM FERT NUTR (NOTE 1) (POUND)	MULCH METHOD 2 (NOTE 1) (TON)	TEMP EROS CONTR SEED (NOTE 2) (POUND)
3+95	4+75	LT	136	3	3	3	0.06	6
3+95	4+80	RT	115	2	2	2	0.04	4
5+95	7+70	LT	162	3	3	3	0.06	6
6+05	7+70	RT	96	2	2	2	0.04	4
TOTAL			509	10	10	10	0.2	20

SEEDING NOTES:

- FERTILIZER AND MULCH QUANTITIES ARE SHOWN FOR INFORMATION ONLY. THE COST FOR FERTILIZER NUTRIENTS AND MULCH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SEEDING, CLASS 2 (SPECIAL).
- THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES TWO APPLICATIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

GUARDRAIL SCHEDULE

STATION	STATION	LOCATION	SPBGR TY A 6FT POSTS (FOOT)	TRAF BAR TERM T2 (EACH)	TRAF BAR TERM T5 (EACH)	TRAF BAR TERM T6 (EACH)	TR BAR TRM T1 SPL TAN (EACH)	TR BAR TRM T1 SPL FLR (EACH)	GUARDRAIL REMOVAL (FOOT)	GUARDRAIL MKR TYPE A (NOTE 1) (EACH)	BAR WALL MKR TYPE C (NOTE 1) (EACH)	TERMINAL MARKER - DA (EACH)
3+95	4+92	NW QUAD				1		1		2		1
4+57	6+10	LT							152	1		1
4+60	4+86	NE QUAD		1	1							
4+81	6+15	RT							128			
4+86	5+87	LT									2	
4+92	5+93	RT									2	
5+87	6+73	SE QUAD				1	1			2		1
5+93	6+93	SW QUAD	62.5	1	1					1		1
TOTAL			62.5	2	2	2	1	1	280	6	4	4

GUARDRAIL NOTES:

- GUARDRAIL AND BARRIER WALL MARKERS SHALL BE BI-DIRECTIONAL AND CRYSTAL IN COLOR.

SIGNING SCHEDULE

STATION	OFFSET (NOTE 1)	TYPE	SIZE (FT x FT)	SIGN PANEL T1 (SQ FT)	METAL POST TY A (NOTE 2) (FOOT)	METAL POST TY B (NOTE 2) (FOOT)
4+70	23' RT	D3-1	2.5 x 1.5	3.75	13	
4+80	21' RT	W1-1R	2.5 x 2.5	6.25		14
5+90	21' LT	W1-8L	1.5 x 2	3.0	13	
6+00	23' LT	D3-1	2.5 x 1.5	3.75	13	
6+62	18' LT*	W1-8L	1.5 x 2	3.0	13	
6+62	18' LT	W1-8R	1.5 x 2	3.0		
7+33	20' LT*	W1-8L	1.5 x 2	3.0	13	
7+33	20' LT	W1-8R	1.5 x 2	3.0		
8+04	24' LT*	W1-8L	1.5 x 2	3.0	13	
8+04	24' LT	W1-8R	1.5 x 2	3.0		
9+13	27' LT	W1-1L	2.5 x 2.5	6.25		14
TOTAL				41.0	78	28

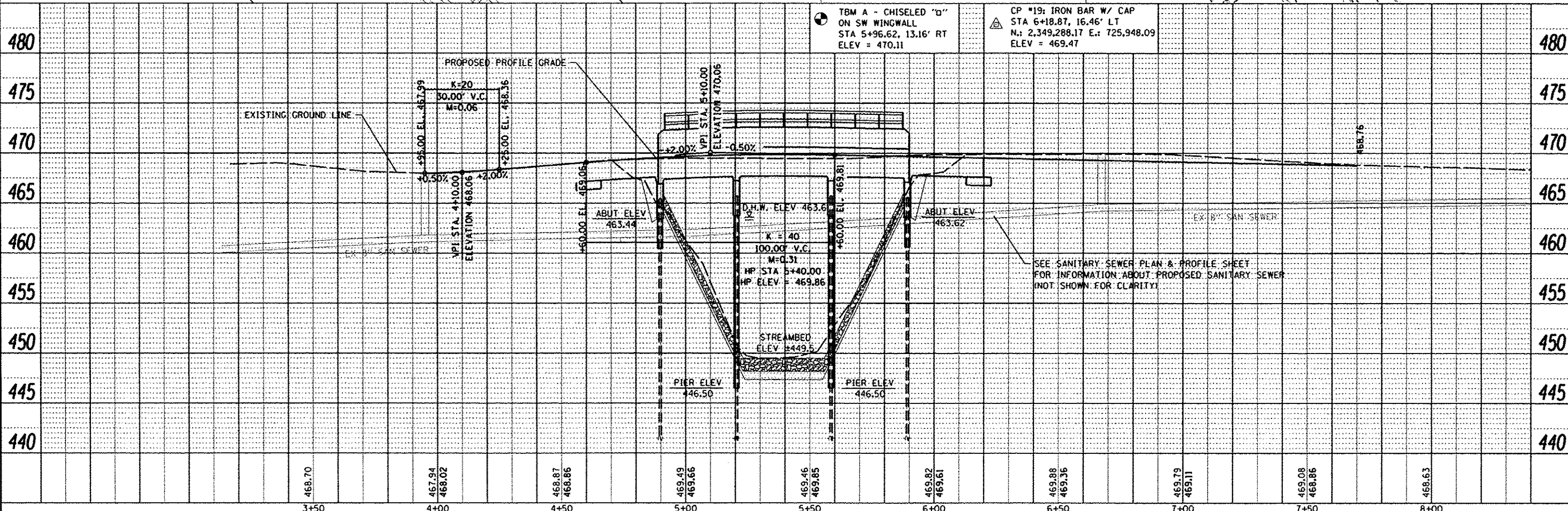
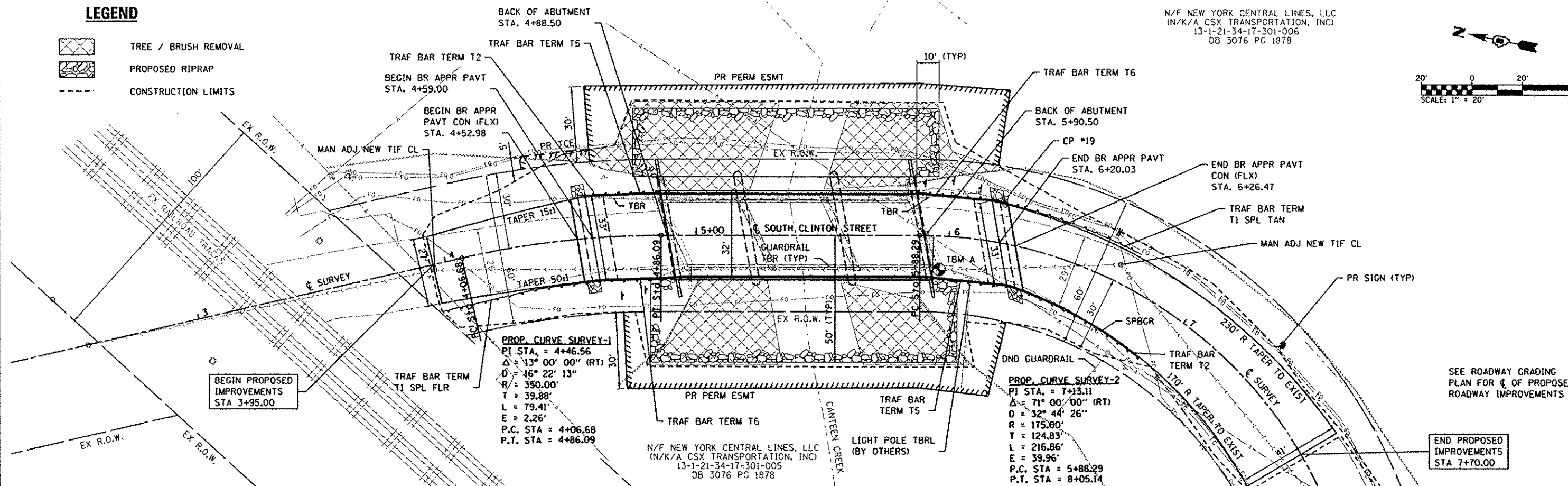
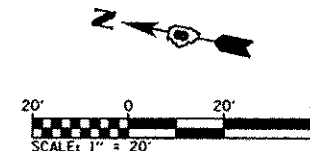
SIGNING NOTES:

- * INDICATES TWO SIGN PANELS REQUIRED (ONE ON EACH SIDE OF POST)
- SEE CONSTR DETAILS FOR ADDITIONAL INFORMATION ON SIGN PLACEMENT.

LEGEND

- TREE / BRUSH REMOVAL
- PROPOSED RIPRAP
- CONSTRUCTION LIMITS

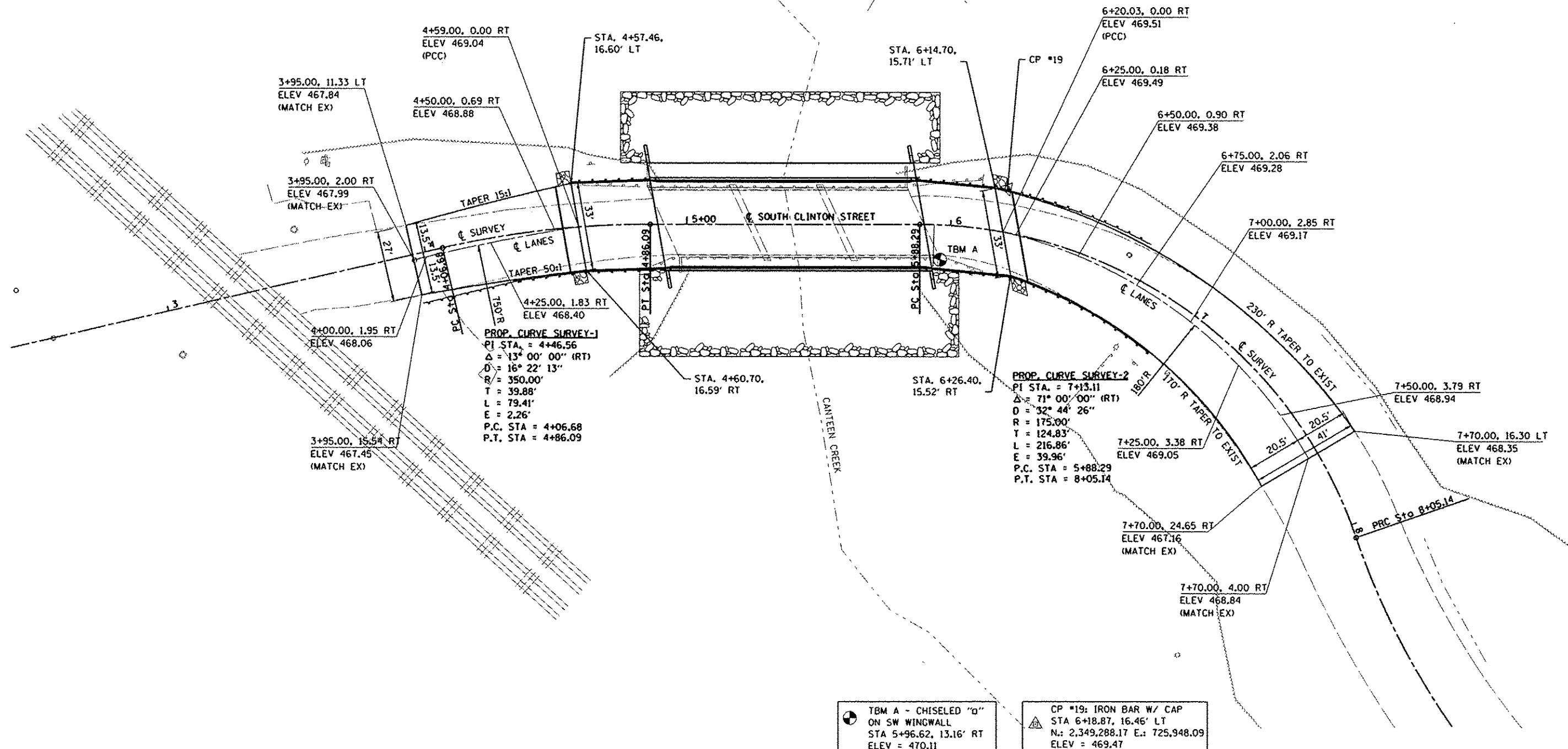
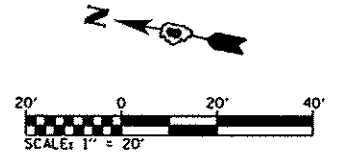
N/F NEW YORK CENTRAL LINES, LLC
(N/K/A CSX TRANSPORTATION, INC.)
13-1-21-34-17-301-006
DB 3076 PG 1878



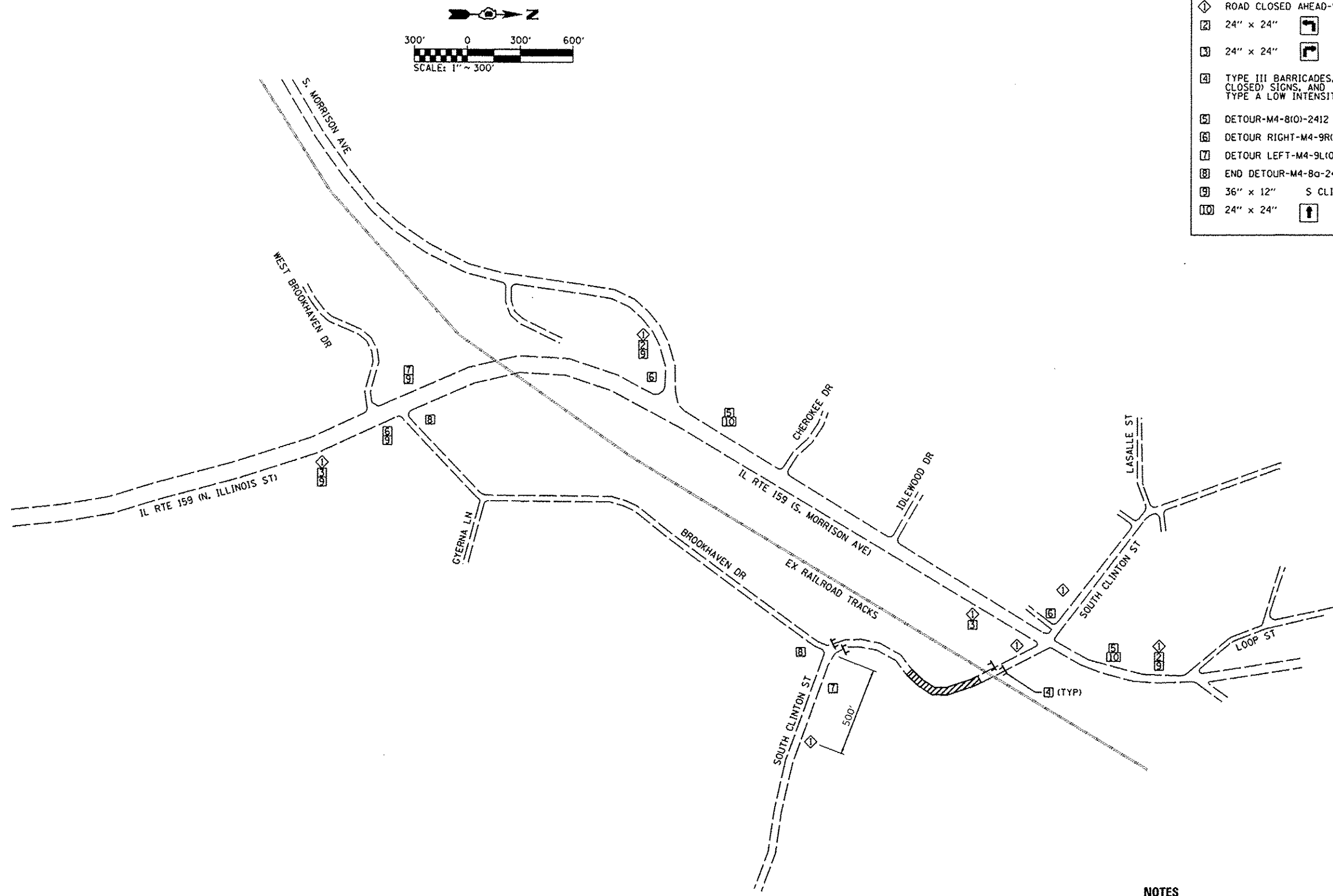
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NOTES:

- ① SEE CROSS SECTIONS FOR EDGE OF PAVEMENT OFFSETS AND ELEVATIONS.



FILE NAME : D028040-shr-elev.dgn	USER NAME : default PLOT TIME : 8:29:10 AM PLOT SCALE : 40.0000' / IN. PLOT DATE : 10/18/2013	DESIGNED : DRAWN : CHECKED : DATE :	REVISED : REVISED : REVISED : REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY GRADING PLAN	SCALE: 1"=20'	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A.U. RTE. 9134 CLINTON ST BRIDGE RECONSTRUCT	SECTION 10-00091-02-BR	COUNTY MADISON	TOTAL SHEETS 36	SHEET NO. 8	CONTRACT NO. 97543	ILLINOIS FED. AID PROJECT
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LEGEND

1

ROAD CLOSED AHEAD-W20-3(0)-48

2

24" x 24"

3

24" x 24"

4

TYPE III BARRICADES, R-11-2-6030 (ROAD CLOSED) SIGNS, AND TYPE A LOW INTENSITY FLASHING LIGHTS

5

DETOUR-M4-8(0)-2412

6

DETOUR RIGHT-M4-9R(0)-3024

7

DETOUR LEFT-M4-9L(0)-3024

8

END DETOUR-M4-8a-2412

9

36" x 12"

10

24" x 24"

1

48" x 48" FLUORESCENT ORANGE

TT

BARRICADES WITH TYPE A LOW INTENSITY FLASHING LIGHT

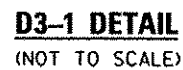
WORK AREA

NOTES

ALL CONSTRUCTION SIGNS TO BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

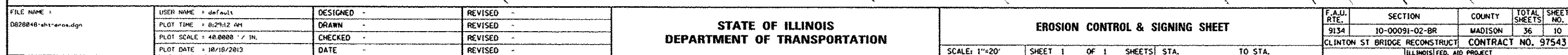
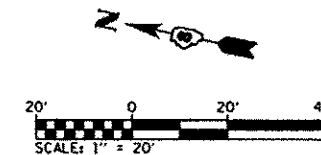
THE CONTRACTOR SHALL MAINTAIN DRAINAGE THROUGHOUT CONSTRUCTION.

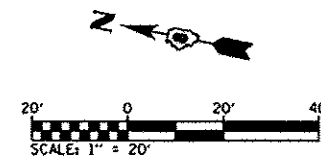
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	PLOT TIME * 8:32:15 AM	DRAWN -	REVISED -						9134	10-00091-02-8R	MADISON	36	9		
	PLOT SCALE * 00.000' / IN.	CHECKED -	REVISED -						CLINTON ST BRIDGE RECONSTRUCT					CONTRACT NO. 97543	
	PLOT DATE * 10/18/2013	DATE -	REVISED -						ILLINOIS FED. AID PROJECT						
SCALE:		SHEET 1 OF 1 SHEETS		STA.		TO STA.									



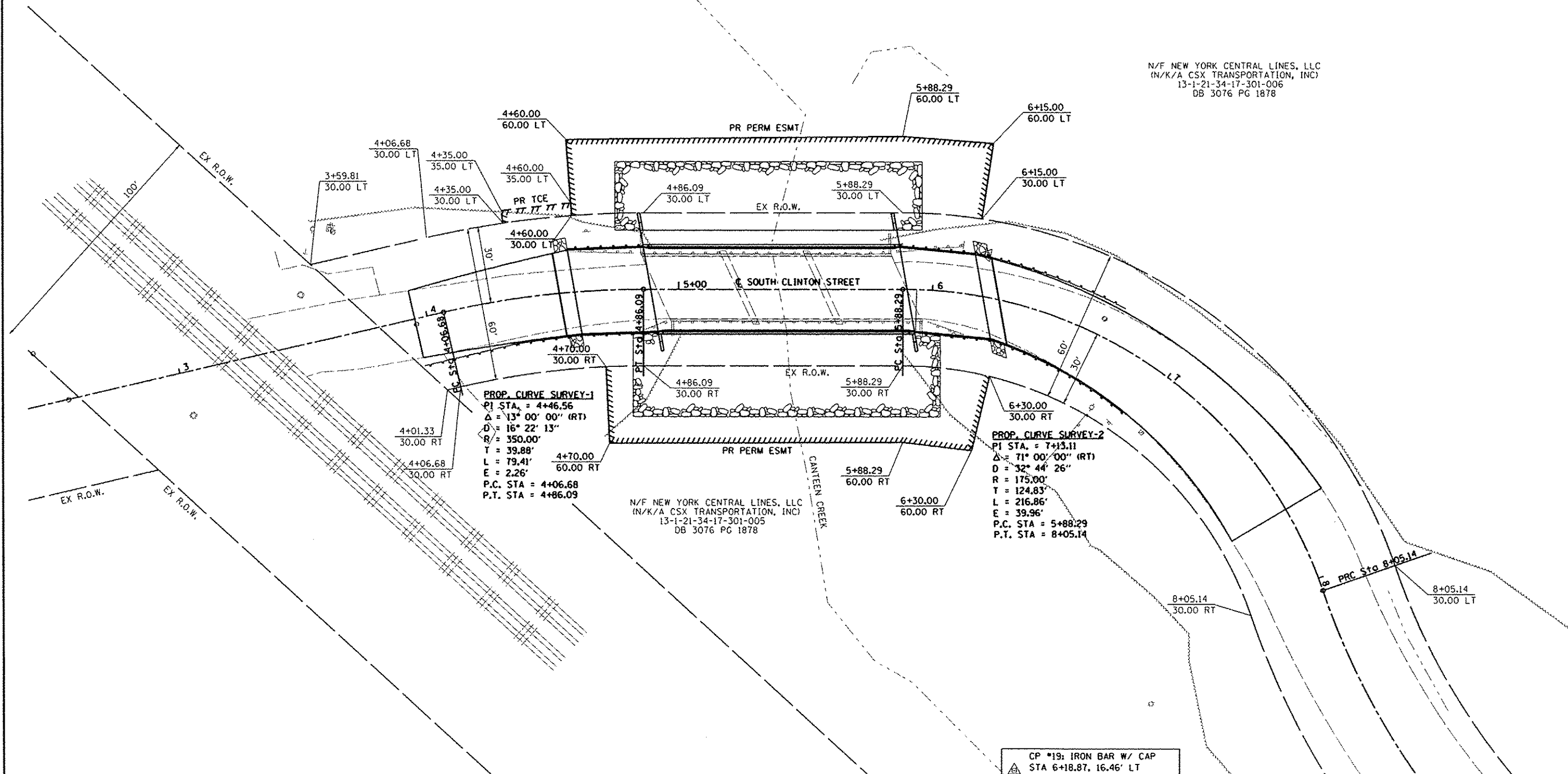
	LIMITS OF CONSTRUCTION
	STONE RIPRAP
	PERIMETER EROSION BARRIER
	SILT FILTER FENCE OR OTHER
	AS APPROVED BY THE ENGINEER

NOTE: ALL ITEMS SHALL BE CONSTRUCTED
AS SHOWN ON STANDARD 280001 AND
AS DIRECTED BY THE ENGINEER.





N/F NEW YORK CENTRAL LINES, LLC
(N/K/A CSX TRANSPORTATION, INC)
13-1-21-34-17-301-006
DB 3076 PG 1878



FILE NAME : 0628048-shr-crowplendgn	USER NAME : default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLAN SHEET	F.A.U. RTE. 9134	SECTION 10-00091-02-BR	COUNTY MADISON	TOTAL SHEETS 36	SHEET NO. 11
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	PLOT SCALE : 40.0000 ' / IN.	CHECKED -	REVISED -							
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SCALE: 1"=20'						SHEET 1	OF 1 SHEETS	STA.	TO STA.	
						CLINTON ST BRIDGE RECONSTRUCT CONTRACT NO. 97543				
						ILLINOIS FED. AID PROJECT				

SANITARY SEWER GENERAL NOTES

1. ALL MATERIALS, INSTALLATION, AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", ADOPTED JULY 2009, THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH, THE ILLINOIS PLUMBING CODE, AND THE CITY OF COLLINSVILLE MUNICIPAL CODE.
2. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PLANS WITH THE ACTUAL DIMENSIONS AND CONDITIONS OF THE SITE. THE CONTRACTOR SHALL VERIFY THE ENGINEER'S LINES AND GRADES. IF A DISCREPANCY OCCURS FROM WHAT IS SHOWN ON THE PLANS, STANDARD SPECIFICATIONS, AND/OR DETAILS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE AFFECTED WORK. FAILING TO DO SO WILL BE CONSIDERED AS THE CONTRACTOR HAVING PROCEEDED AT HIS OWN RISK AND EXPENSE.
3. ALL SANITARY SEWERS SHALL BE OF THE MATERIAL SPECIFIED ON THE PLANS.
4. ALL CONNECTIONS TO EXISTING STRUCTURES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR "SANITARY SEWER" TYPE AND SIZE SPECIFIED.
5. SANITARY SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE SANITARY SEWER SLOPES SHOWN ON THE PLANS IS THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF SANITARY SEWERS SHOWN ON THE PLANS IS THE HORIZONTAL DISTANCE FROM CENTER TO CENTER OF STRUCTURE.
6. BEDDING OF THE PIPE AND BACKFILL SHALL BE DONE IN ACCORDANCE WITH ASTM D2321-89 CLASS 1B (FOR FLEXIBLE PIPE) OR ASTM C12 CLASS B (FOR RIGID PIPE), THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" AND AS SHOWN IN THE PLANS. GRANULAR TRENCH BACKFILL SHALL BE USED AS INDICATED ON THE PLANS AND WHEN THE EDGE OF ANY TRENCH IS WITHIN 2 FEET OF ANY PAVEMENT, CURB, SIDEWALK, OR OTHER STRUCTURE, TRENCH BACKFILL SHALL BE COMPACTED WITH A ROLLER, VIBRATORY PLATE, OR OTHER COMPACTING DEVICE IN 12-INCH LIFTS.
7. ALL GRAVITY SANITARY SEWER PIPES SHALL BE TESTED IN ACCORDANCE WITH ARTICLE 31-1.12 METHOD A, EXFILTRATION OF AIR UNDER PRESSURE, AND METHOD D, DEFLECTION FOR FLEXIBLE THERMOPLASTIC PIPE, OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS". GRAVITY SEWER PIPES SHALL BE TELEVISION INSPECTED BY THE CITY OF COLLINSVILLE PRIOR TO THE WORK BEING ACCEPTED. CONTRACTOR SHALL REPAIR OR REPLACE ANY LINE OR STRUCTURE WHICH FAILS ANY OF THE REQUIRED TESTS, AND RETEST. ALL TESTS SHALL BE WITNESSED BY THE ENGINEER. CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF ANY TESTING TO BE PERFORMED.
8. A MINIMUM 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER AND SEWER MAINS IN ACCORDANCE WITH ARTICLE 41-2.01A AND 41-2.01B OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
9. PVC PIPE SHALL BE STORED UNDER COVER TO PROTECT FROM ULTRAVIOLET LIGHT.
10. WHENEVER PIPE LAYING IS NOT ACTIVELY IN PROGRESS, OPEN ENDS OF ALL INSTALLED PIPE AND FITTINGS SHALL BE FITTED WITH A WATERTIGHT PLUG.
11. MANHOLE COVERS SHALL BE WATERTIGHT, SELF-SEALING LIDS WITH CONCEALED PICK HOLES AS SPECIFIED IN ARTICLE 32-6.01 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, JULY 2009, 6" EDITION." ACCEPTABLE MANUFACTURERS AND MODEL NUMBERS INCLUDE:

NEENAH SERIES 1772 FRAME AND COVER, SOLID HEAVY DUTY LID WITH GASKET AND MARKED "SANITARY"
EAST JORDAN SERIES FRAME AND COVER, SOLID HEAVY DUTY LID WITH GASKET AND MARKED "SANITARY"
BARRY FOUNDRY, B-1600-C FRAME AND COVER, SOLID HEAVY DUTY LID WITH GASKET AND MARKED "SANITARY"

LEGEND



TRENCH BACKFILL
STEEL CASING

1 EA - MAN ADJ NEW TIF CL
STA 3+95.20, 2.20' RT
EX RIM ELEV = 467.98
PR RIM ELEV = 467.99
EX/PR INV ELEV = 461.13

65 FT SAN SEW PVC 8 @ 1.13%
57 CU YD TRENCH BACKFILL

BEGIN STEEL CASING
STA 4+60.24, 12.25' RT

PR PERM ESMT

46 FT SAN SEW PVC 8 @ 1.13%
29 CU YD TRENCH BACKFILL

1 EA - MAN ADJ NEW TIF CL
STA 6+67.43, 6.80' LT
EX RIM ELEV = 470.03
PR RIM ELEV = 469.14
EX/PR INV ELEV = 464.19

15 FT SAN SEW 8 @ 1.00%

1 EA - MAN SAN 6 DIA TIF CL
1 EA - SAN MAN REMOVED
STA 6+67.72, 8.20' RT
EX PAVT ELEV = 469.75
PR RIM ELEV = 469.75
PR INV ELEV = 464.04
PR BOT MAN ELEV = 457.75

END PROPOSED
IMPROVEMENTS
STA 7+70.00

BEGIN PROPOSED
IMPROVEMENTS
STA 3+95.00

272 FT SAN SEW REMOV 8
160 FT SAN SEW PVC 8 @ 1.13%
160 FT STEEL CASINGS 18
47 CU YD TRENCH BACKFILL

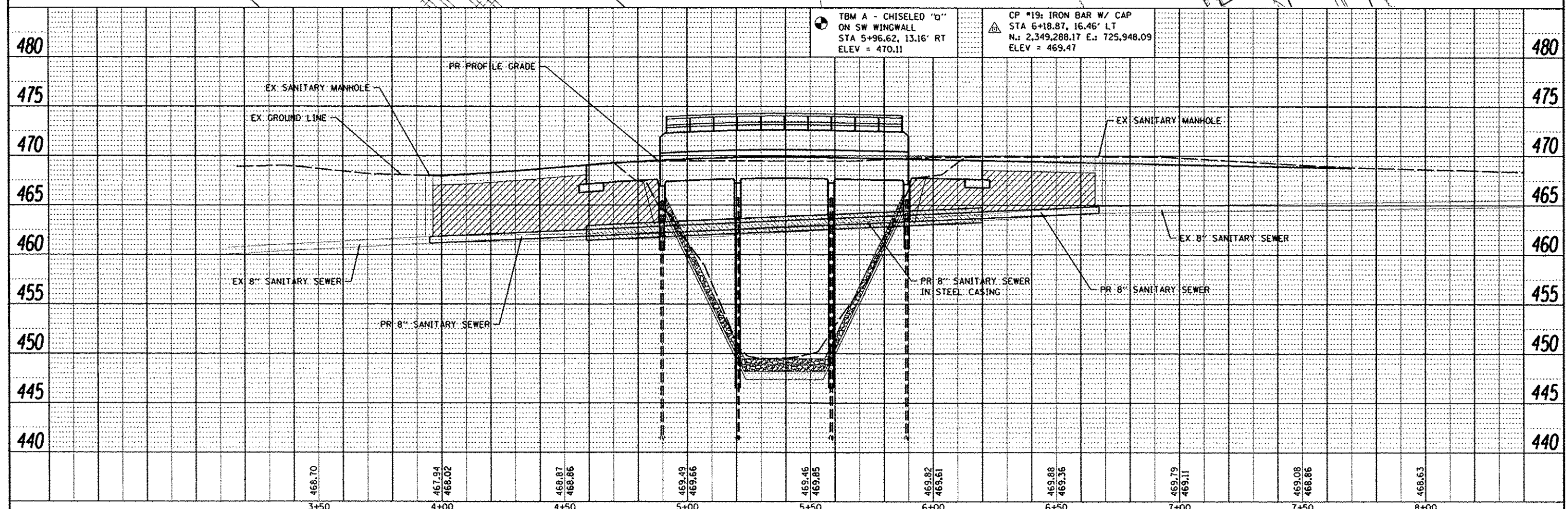
PR PERM ESMT

1 EA LOC UNDERGR UTILITY

END STEEL CASING
STA 6+23.37, 8.52' RT

TBM A - CHISELED "D"
ON SW WINGWALL
STA 5+96.62, 13.16' RT
ELEV = 470.11

CP #19: IRON BAR W/ CAP
STA 6+18.87, 16.46' LT
N.: 2,349,288.17 E.: 725,948.09
ELEV = 469.47



FILE NAME : 0828040-shr-sanitary.dgn	USER NAME : default	DESIGNED : DRAWN : CHECKED : DATE :	REVISED : REVISED : REVISED : REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SANITARY SEWER PLAN & PROFILE SHEET		SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS	STA. 3+95 TO STA. 7+70	F.A.U. RTE. 9134	SECTION 10-00091-02-BR	COUNTY MADISON	TOTAL SHEETS 36	SHEET NO. 13	CLINTON ST BRIDGE RECONSTRUCT CONTRACT NO. 97543	ILLINOIS FED. AID PROJECT
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Bench Mark: TBM A-Chiseled square on southwest wingwall, Sta. 5+96.62, 13.16' RT, Elev. 470.11.

Existing Structure: S.N. 060-6303 was originally built in 1960, under Section 23-B-CS. The back-to-back abutment length is 102'-2" and the out-to-out deck width is 26'-3". The structure consists of a three span precast reinforced concrete channel beam superstructure supported on open abutments founded on timber piles and pile bents with cap beams founded on individual metal shell piles without encasement. Structure to be removed and replaced.

Traffic Control: The road will be closed during construction and traffic will be detoured.

Salvage: None

Notes:

- ① Fiber optic line on East side of existing structure and light pole to be relocated by others.
- ② Cofferdam (Type I) required for pier wall construction.
- ③ Angle is with respect to Structure Baseline.
- ④ See roadway plans.

DESIGN SPECIFICATIONS
2010 AASHTO LRFD Bridge Design Specifications,
5th Edition, with 2010 Interims

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (AASHTO M 270 Grade 36)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.24g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.55g
Soil Site Class = D

LOADING HL-93

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

CURVE DATA - SURVEY-1

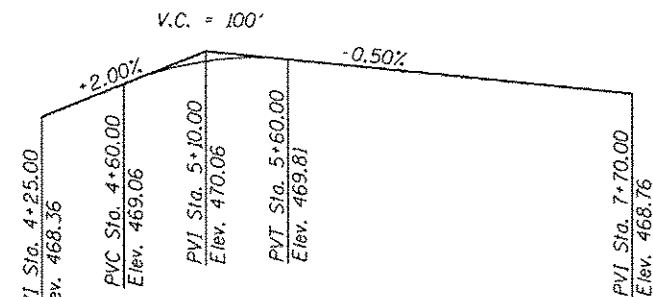
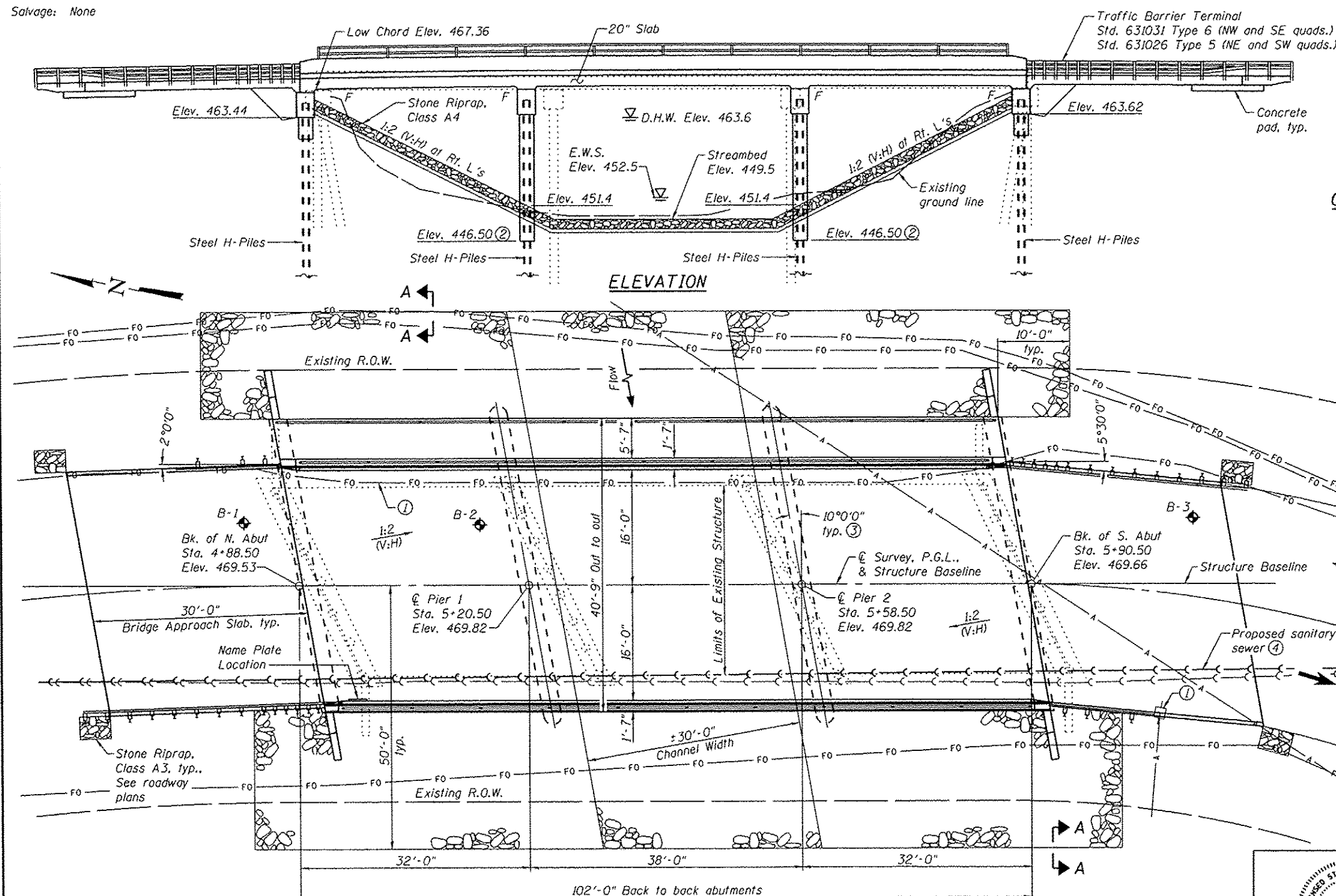
P.I. Sta. = 4+46.56
 $\Delta = 13^\circ 00' 00''$ (Rt.)
 $D = 16^\circ 22' 13''$
 $R = 350.00'$
 $T = 39.88'$
 $L = 79.11'$
 $E = 2.26'$
 $e = N/A$
 $T.R. = N/A$
 $S.E. Run = N/A$
 $P.C. Sta. = 4+06.68$
 $P.T. Sta. = 4+86.09$

CURVE DATA - SURVEY-2

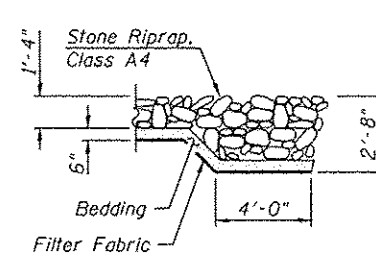
P.I. Sta. = 7+13.11
 $\Delta = 71^\circ 00' 00''$ (Rt.)
 $D = 32^\circ 44' 26''$
 $R = 175.00'$
 $T = 124.83'$
 $L = 216.86'$
 $E = 39.96'$
 $e = N/A$
 $T.R. = N/A$
 $S.E. Run = N/A$
 $P.C. Sta. = 5+88.29$
 $P.T. Sta. = 8+05.14$

CANTEEN CREEK
BUILT 20... BY
CITY OF COLLINSVILLE
SEC. 10-00091-02-BR
F.A.U. RT. 9134 STA. 5+39.50
STR. NO. 060-6307 LOADING HL-93

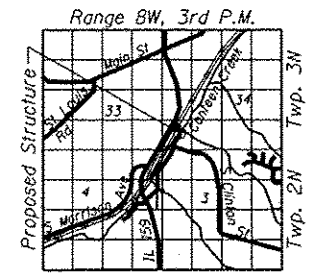
NAME PLATE
See Std. 515001



PROFILE GRADE
(Along ϕ Survey)



SECTION A-A



LOCATION SKETCH

WATERWAY INFORMATION

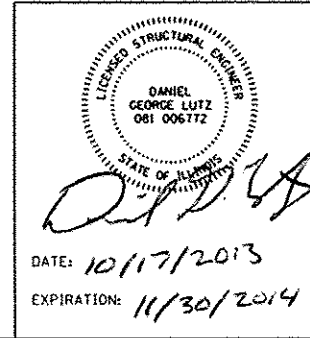
Drainage Area = 18.4 sq. mi.		Low Grade Elev. 467.9 at Sta. 4+00					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.	
		Q	Exist.	Prop.	Exist.	Prop.	Exist.
Design	10	4,500	545	602	461.3	1.4	1.0
	30	6,050	715	784	463.6	1.6	1.1
Base	100	8,600	935	1,022	466.3	2.8	2.1
Overtopping	-	-	-	-	-	-	-
Max. Calc.	500	11,100	1,030	1,133	468.0	1.5	0.8

PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)				
	N. Abut.	Pier 1	Pier 2	S. Abut.
Q100	463.4	446.5	446.5	463.6
Q500	463.4	446.5	446.5	463.6

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 the requirements of the current AASHTO LRFD Bridge Design Specifications.



GENERAL PLAN & ELEVATION
SOUTH CLINTON STREET
OVER CANTEEN CREEK
F.A.U. 9134 - SEC. 10-00091-02-BR
MADISON COUNTY
STATION 5+39.50
STRUCTURE NO. 060-6307

GENERAL NOTES

Fasteners shall be ASTM A325 Type I, mechanically galvanized bolts. Bolts $\frac{3}{4}$ in. ϕ , holes $\frac{5}{8}$ in. ϕ , unless noted otherwise.

Calculated weight of Structural Steel = AASHTO M 270 Grade 36 = 2,380 pounds

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.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

All structural steel components of the Sanitary Sewer Support shall be galvanized according to AASHTO M111. Cost included with Furnishing and Erecting Structural Steel.

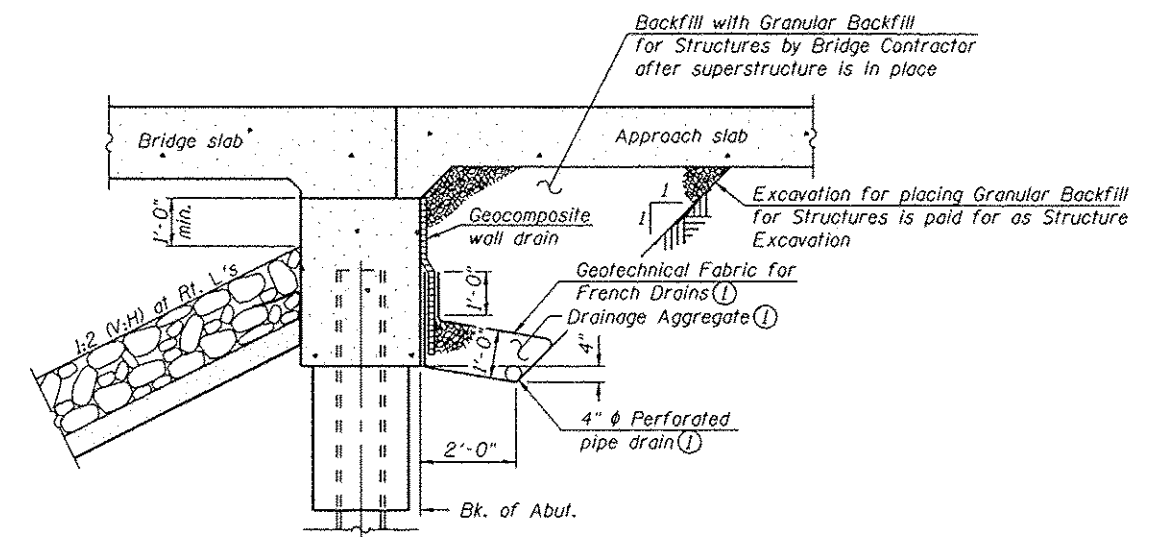
Slipforming of parapets is not allowed.

TOTAL BILL OF MATERIAL

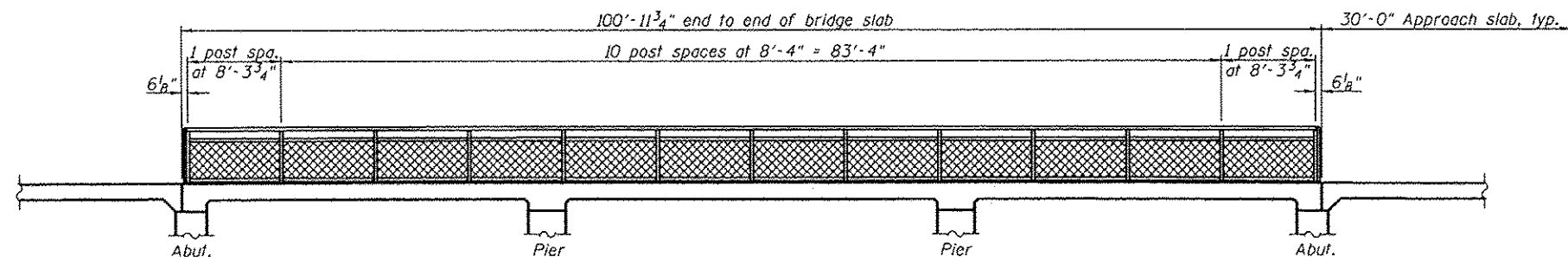
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	1,309	1,309
Filter Fabric	Sq. Yd.	-	1,309	1,309
Removal of Existing Structures	Each	-	1	1
Structure Excavation	Cu. Yd.	-	261	261
Cofferdam (Type I) (Location-1)	Each	-	1	1
Cofferdam (Type I) (Location-2)	Each	-	1	1
Concrete Structures	Cu. Yd.	-	229.5	229.5
Concrete Superstructure	Cu. Yd.	392.7	-	392.7
Bridge Deck Grooving	Sq. Yd.	540	-	540
Concrete Encasement	Cu. Yd.	-	4.8	4.8
Protective Coat	Sq. Yd.	767	-	767
Furnishing and Erecting Structural Steel	Pound	2,380	-	2,380
Reinforcement Bars, Epoxy Coated	Pound	77,200	25,850	103,050
Bicycle Railing	Foot	100	-	100
Parapet Railing	Foot	192	-	192
Furnishing Steel Piles HP12x53	Foot	-	754	754
Furnishing Steel Piles HP14x73	Foot	-	832	832
Driving Piles	Foot	-	1,586	1,586
Test Pile Steel HP12x53	Each	-	1	1
Test Pile Steel HP14x73	Each	-	1	1
Pile Shoes	Each	-	28	28
Name Plates	Each	1	-	1
Anchor Bolts, $\frac{3}{4}$ "	Each	10	-	10
Geocomposite Wall Drain	Sq. Yd.	-	42	42
Pipe Underdrains for Structures 4"	Foot	-	158	158
Granular Backfill for Structures	Cu. Yd.	-	74	74

INDEX OF SHEETS

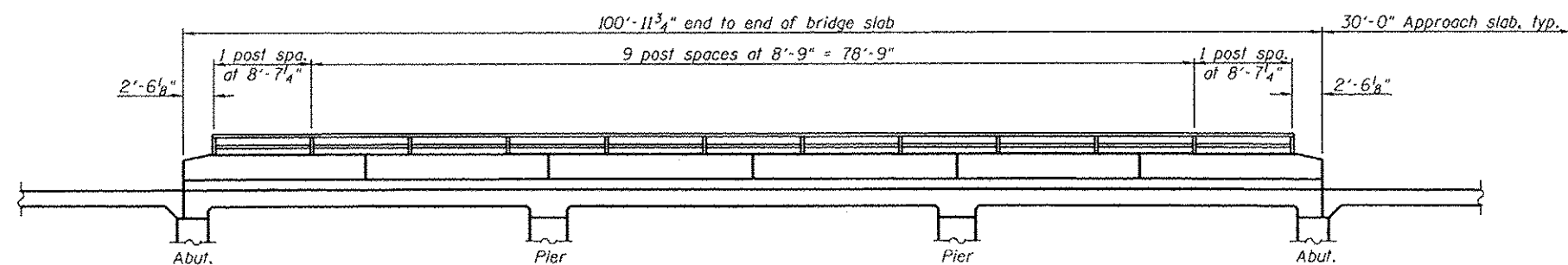
Sheet No.	Description
1	General Plan & Elevation
2	General Data
3	Top of Slab Elevations
4	Top of Approach Slab Elevations
5	Superstructure
6-7	Superstructure Details
8-9	Bridge Approach Slab Details
10	Bicycle Railing
11	North Abutment Details
12	South Abutment Details
13	Pier Details
14	HP Pile Details
15-17	Soil Boring Logs



SECTION THRU ABUTMENT ②
(Horiz. dim. at Rt. L's)



BICYCLE RAILING ELEVATION ③④



PARAPET RAILING ELEVATION ③

Notes:

- Included in the cost of Pipe Underdrains for Structures 4".
- 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).
- For Bicycle and Parapet Railing details, see sheet 10 of 17.
- Parapet Railing not shown for clarity.

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	4+84.52	-23.17	469.00	469.00
℄ N. Abut.	4+85.71	-23.17	469.01	469.01
A	4+95.68	-23.17	469.13	469.14
B	5+05.68	-23.17	469.23	469.24
℄ Pier 1	5+16.42	-23.17	469.31	469.31
C	5+26.42	-23.17	469.36	469.36
D	5+36.42	-23.17	469.38	469.39
E	5+46.42	-23.17	469.37	469.38
℄ Pier 2	5+54.42	-23.17	469.35	469.35
F	5+64.42	-23.17	469.31	469.31
G	5+74.42	-23.17	469.26	469.26
℄ S. Abut.	5+85.15	-23.17	469.20	469.20
Bk. S. Abut.	5+86.42	-23.17	469.20	469.20

INSIDE FACE OF EAST PARAPET

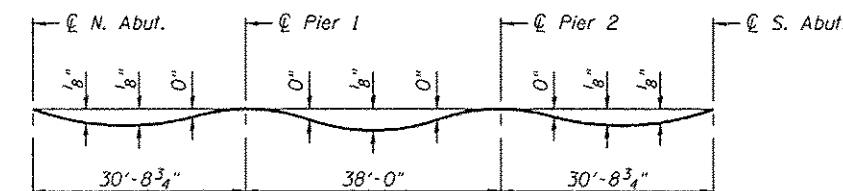
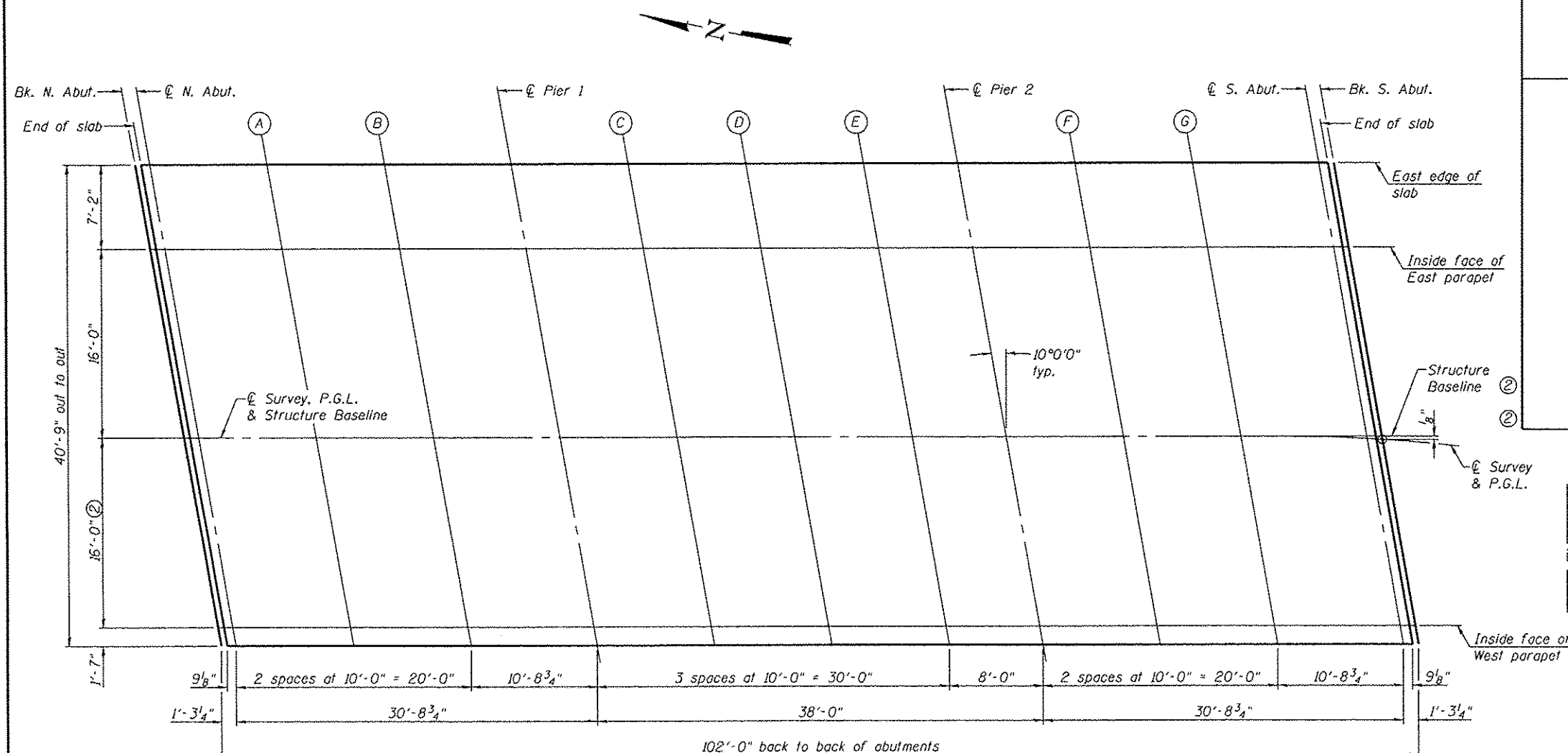
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	4+85.70	-16.00	469.16	469.16
℄ N. Abut.	4+86.95	-16.00	469.18	469.18
A	4+96.95	-16.00	469.30	469.30
B	5+06.95	-16.00	469.39	469.40
℄ Pier 1	5+17.68	-16.00	469.47	469.47
C	5+27.68	-16.00	469.51	469.52
D	5+37.68	-16.00	469.53	469.54
E	5+47.68	-16.00	469.52	469.53
℄ Pier 2	5+55.68	-16.00	469.50	469.50
F	5+65.68	-16.00	469.45	469.46
G	5+75.68	-16.00	469.40	469.41
℄ S. Abut.	5+86.41	-16.00	469.35	469.35
Bk. S. Abut.	5+87.68	-16.00	469.34	469.34

℄ SURVEY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	4+88.50	0.00	469.53	469.53
℄ N. Abut.	4+89.77	0.00	469.55	469.55
A	4+99.77	0.00	469.66	469.67
B	5+09.77	0.00	469.75	469.75
℄ Pier 1	5+20.50	0.00	469.82	469.82
C	5+30.50	0.00	469.85	469.86
D	5+40.50	0.00	469.86	469.87
E	5+50.50	0.00	469.85	469.85
℄ Pier 2	5+58.50	0.00	469.82	469.82
F	5+68.50	0.00	469.77	469.77
G	5+78.50	0.00	469.72	469.73
℄ S. Abut.	5+89.23	0.00	469.67	469.67
Bk. S. Abut.	5+90.50	0.00	469.66	469.66

INSIDE FACE OF WEST PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	4+91.32	16.00	469.23	469.23
℄ N. Abut.	4+92.59	16.00	469.25	469.25
A	5+02.59	16.00	469.35	469.36
B	5+12.59	16.00	469.44	469.44
℄ Pier 1	5+23.32	16.00	469.49	469.49
C	5+33.32	16.00	469.52	469.53
D	5+43.32	16.00	469.53	469.54
E	5+53.32	16.00	469.51	469.51
℄ Pier 2	5+61.32	16.00	469.47	469.47
F	5+71.32	16.00	469.42	469.43
G	5+81.32	16.00	469.37	469.38
℄ S. Abut.	5+92.43	15.96	469.32	469.32
Bk. S. Abut.	5+93.83	15.92	469.31	469.31



DEAD LOAD DEFLECTION DIAGRAM ①

- Notes:
- ① The deflections shown are not to be used in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" as shown above.
 - ② Offset varies at South Abutment due to curve in roadway alignment.

INSIDE FACE OF EAST CURB ①

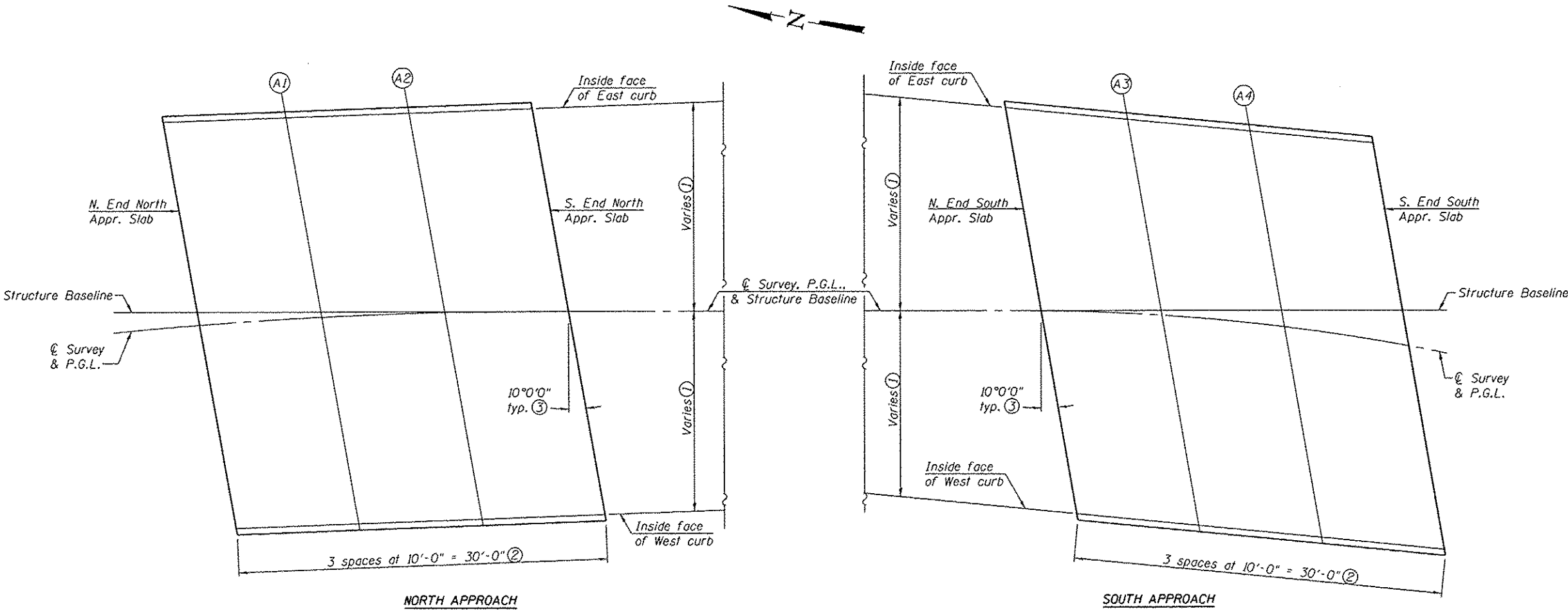
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	4+57.46	-16.60	468.67
A1	4+67.00	-16.26	468.86
A2	4+76.56	-16.20	469.02
S. End North Appr. Slab	4+86.11	-16.42	469.16
N. End South Appr. Slab	5+87.10	-16.42	469.34
A3	5+96.33	-15.66	469.30
A4	6+05.52	-15.42	469.26
S. End South Appr. Slab	6+14.70	-15.71	469.21

CL SURVEY & P.G.L.

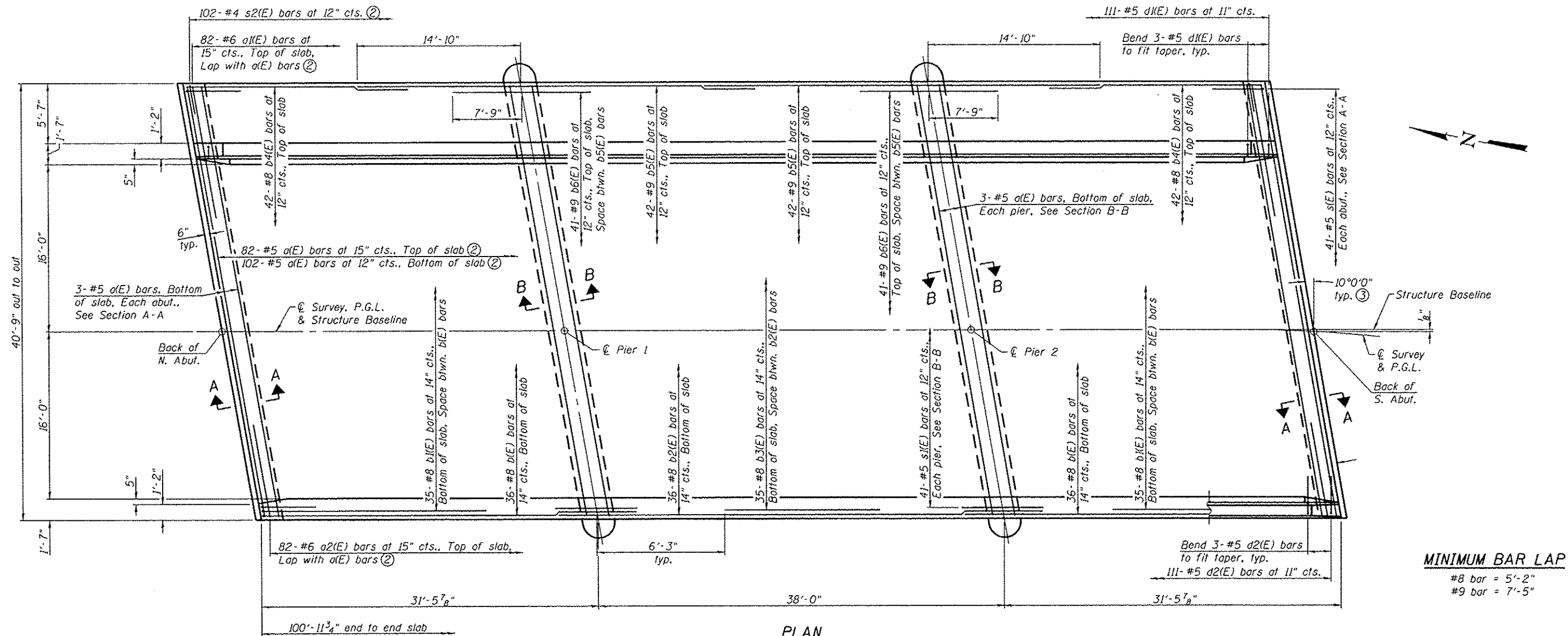
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	4+59.00	0.00	469.04
A1	4+68.96	0.00	469.23
A2	4+78.97	0.00	469.40
S. End North Appr. Slab	4+89.01	0.00	469.54
N. End South Appr. Slab	5+89.99	0.00	469.66
A3	5+99.85	0.00	469.61
A4	6+09.85	0.00	469.56
S. End South Appr. Slab	6+20.03	0.00	469.51

INSIDE FACE OF WEST CURB ①

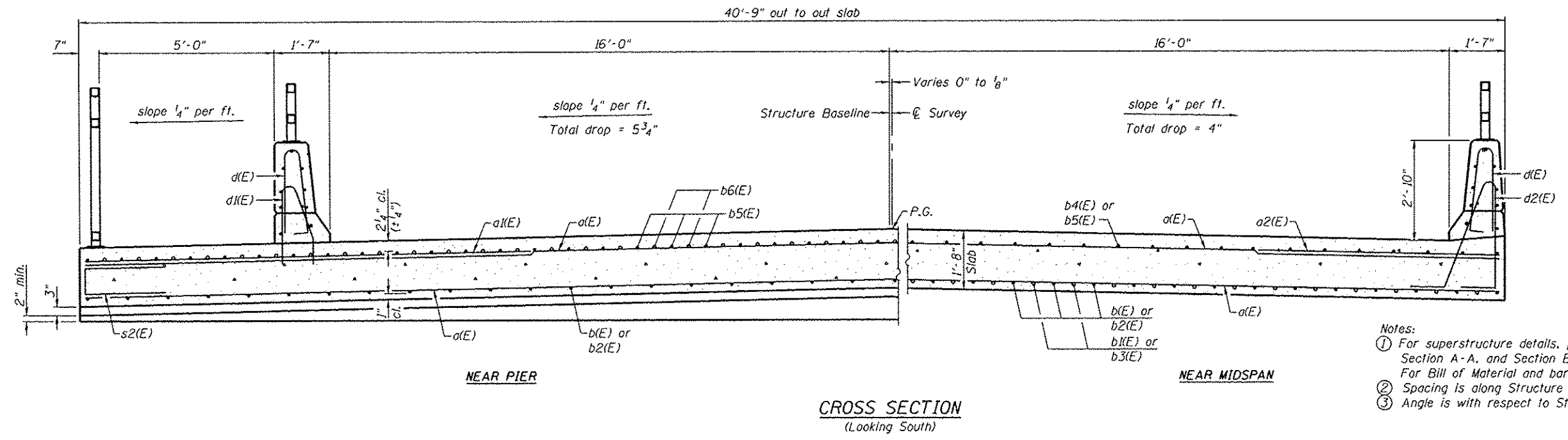
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	4+60.70	16.59	468.73
A1	4+71.20	16.81	468.92
A2	4+81.70	16.74	469.09
S. End North Appr. Slab	4+91.90	16.42	469.23
N. End South Appr. Slab	5+93.36	16.35	469.31
A3	6+04.40	16.70	469.24
A4	6+15.44	16.43	469.19
S. End South Appr. Slab	6+26.40	15.52	469.16

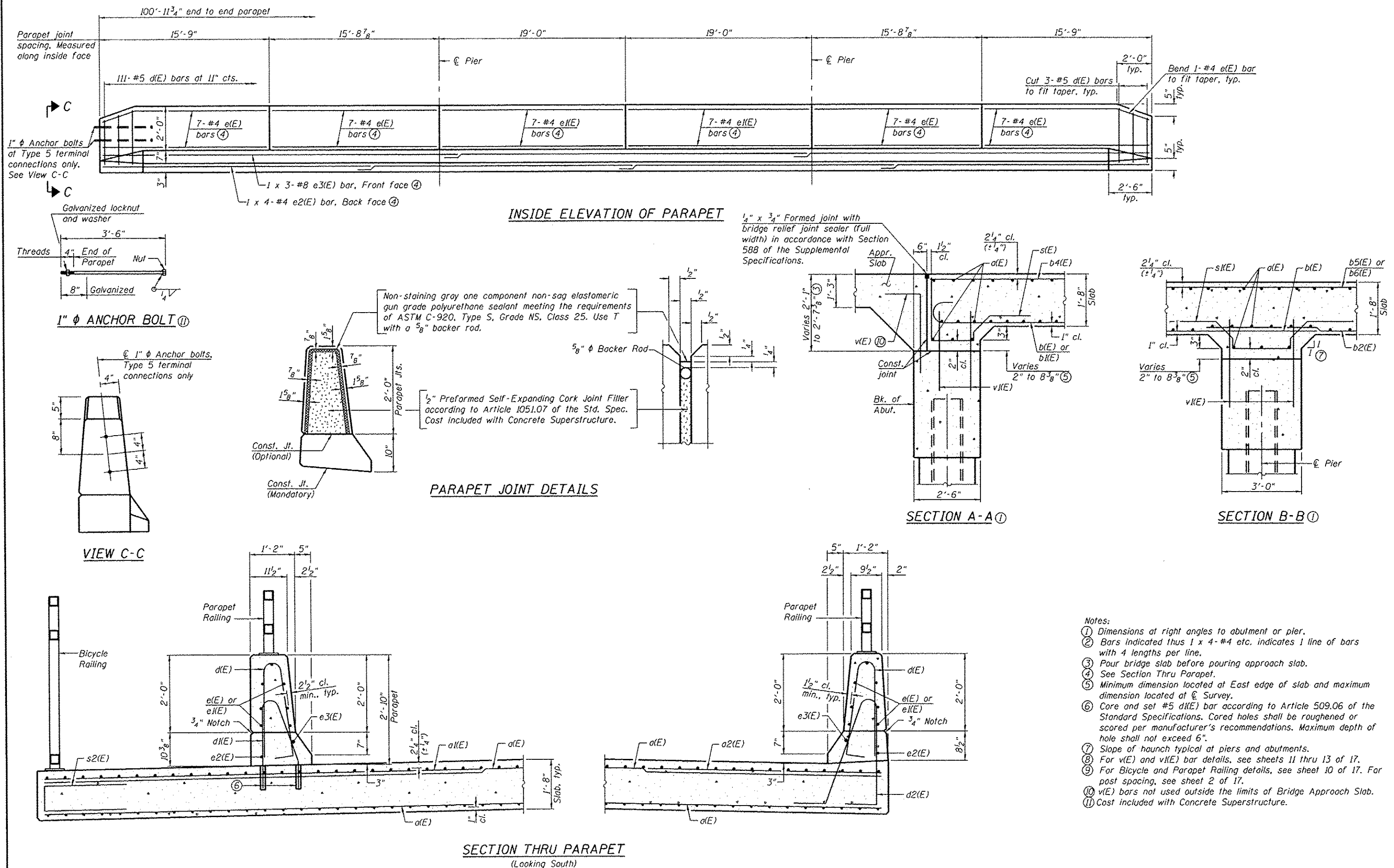


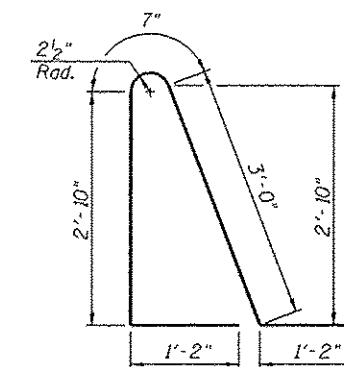
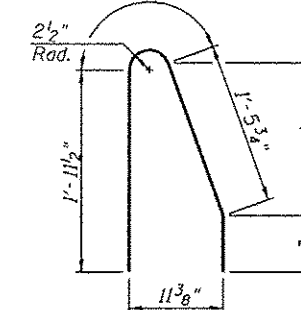
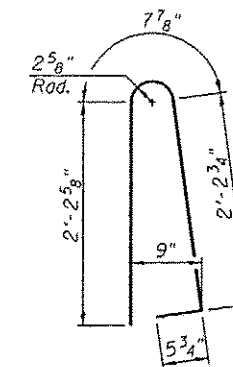
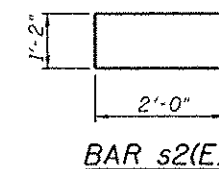
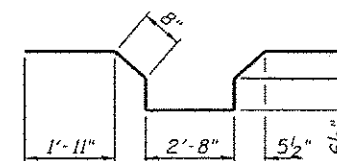
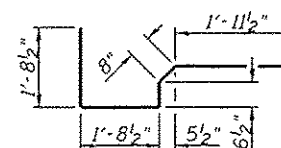
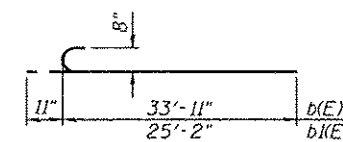
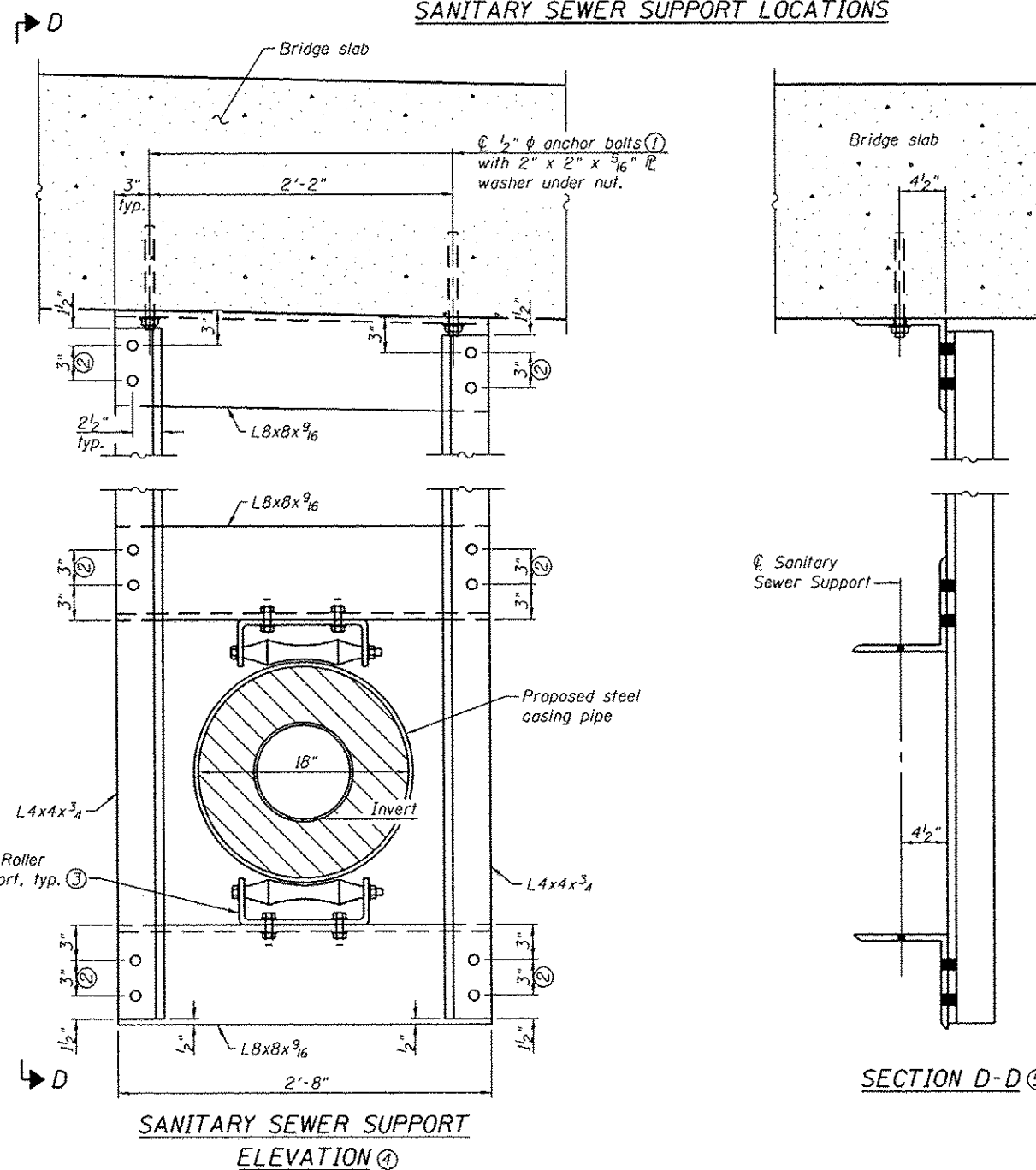
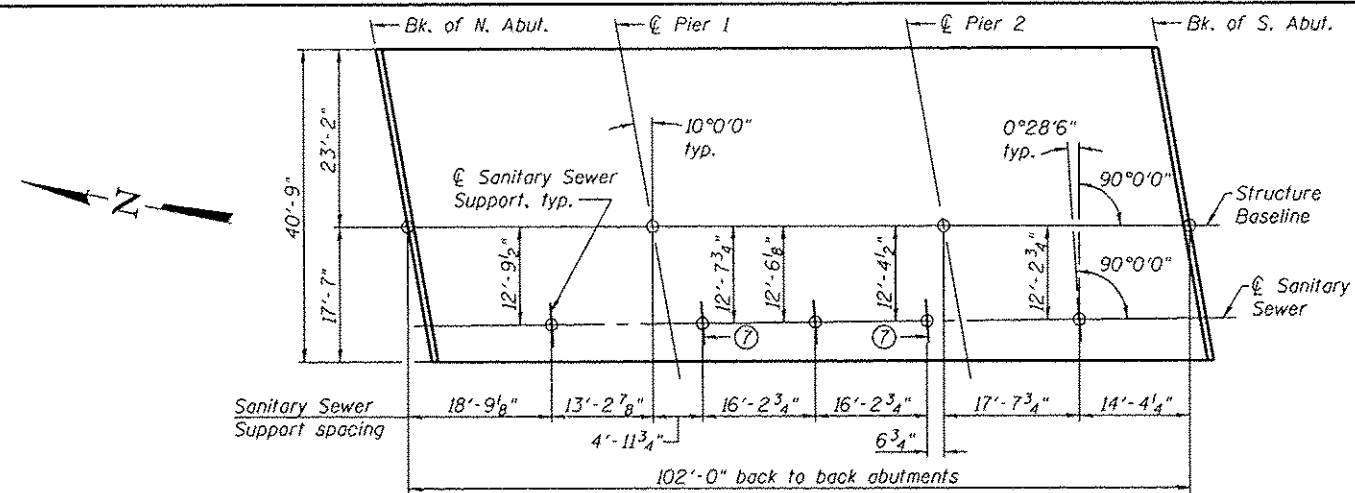
- Notes:
- ① Offsets are with respect to CL Survey and vary due to curves in roadway alignment.
 - ② Dimension is along Local Tangent to approach slab, see sheet 8 of 17.
 - ③ Angle is with respect to Structure Baseline.



MINIMUM BAR LAP
 #8 bar = 5'-2"
 #9 bar = 7'-5"







SUPERSTRUCTURE
BILL OF MATERIAL

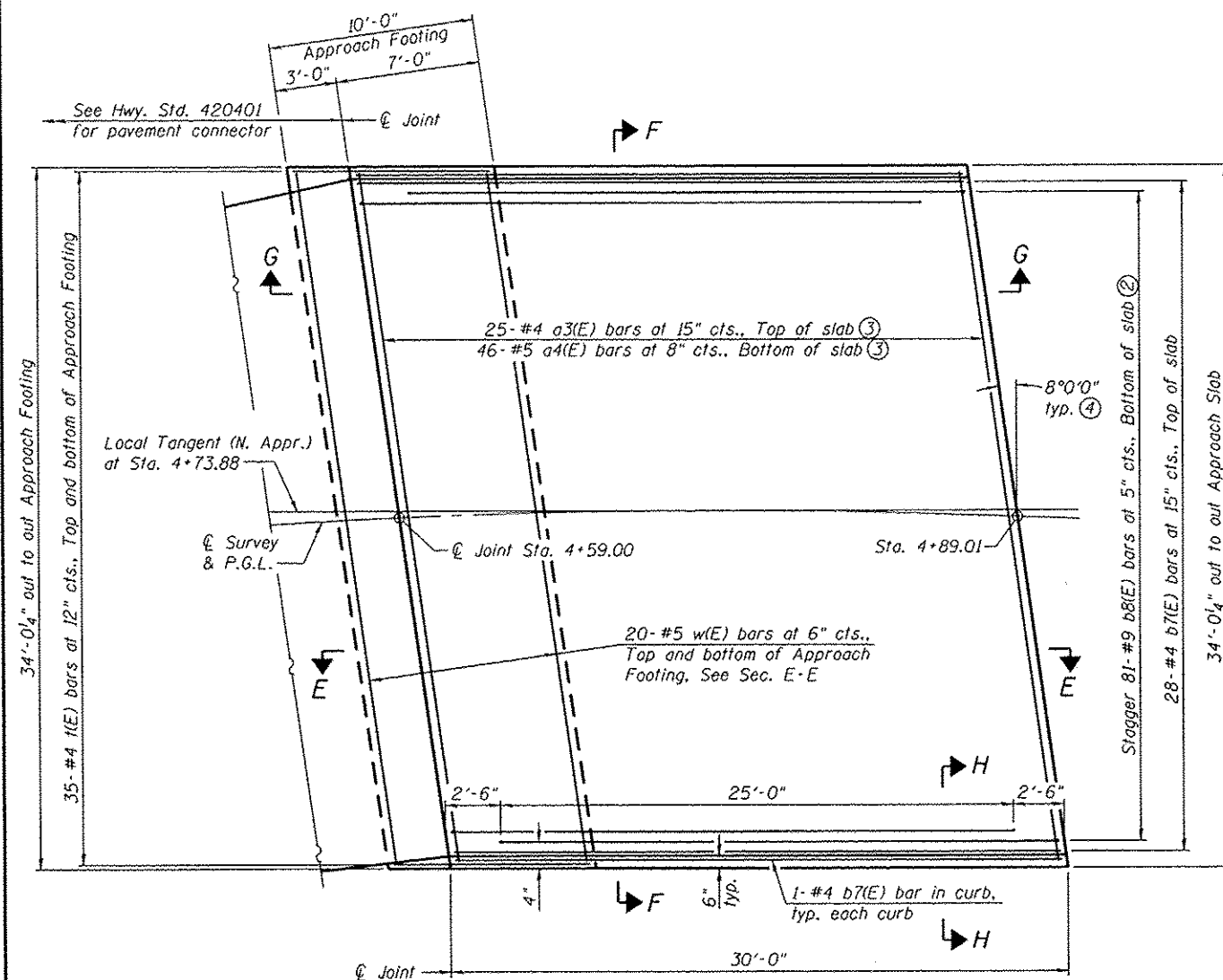
Bar	No.	Size	Length	Shape
a(E)	196	#5	41'-1"	—
a1(E)	82	#6	12'-3"	—
a2(E)	82	#6	6'-7"	—
b(E)	72	#8	34'-10"	C
b1(E)	70	#8	26'-1"	C
b2(E)	36	#8	43'-2"	—
b3(E)	35	#8	25'-6"	—
b4(E)	84	#8	23'-11"	—
b5(E)	84	#9	37'-7"	—
b6(E)	82	#9	15'-6"	—
d(E)	222	#5	5'-7"	I
d1(E)	111	#5	4'-8"	I
d2(E)	111	#5	8'-9"	I
e(E)	56	#4	15'-5"	—
e1(E)	28	#4	18'-8"	—
e2(E)	8	#4	26'-8"	—
e3(E)	6	#8	37'-0"	—
s(E)	82	#5	6'-7"	L
s1(E)	82	#5	8'-11"	W
s2(E)	102	#4	5'-2"	C
Concrete Superstructure			Cu. Yd.	289.5
Reinforcement Bars, Epoxy Coated			Pound	55,430
Anchor Bolts, 3/4"			Each	10

INVERT ELEVATIONS

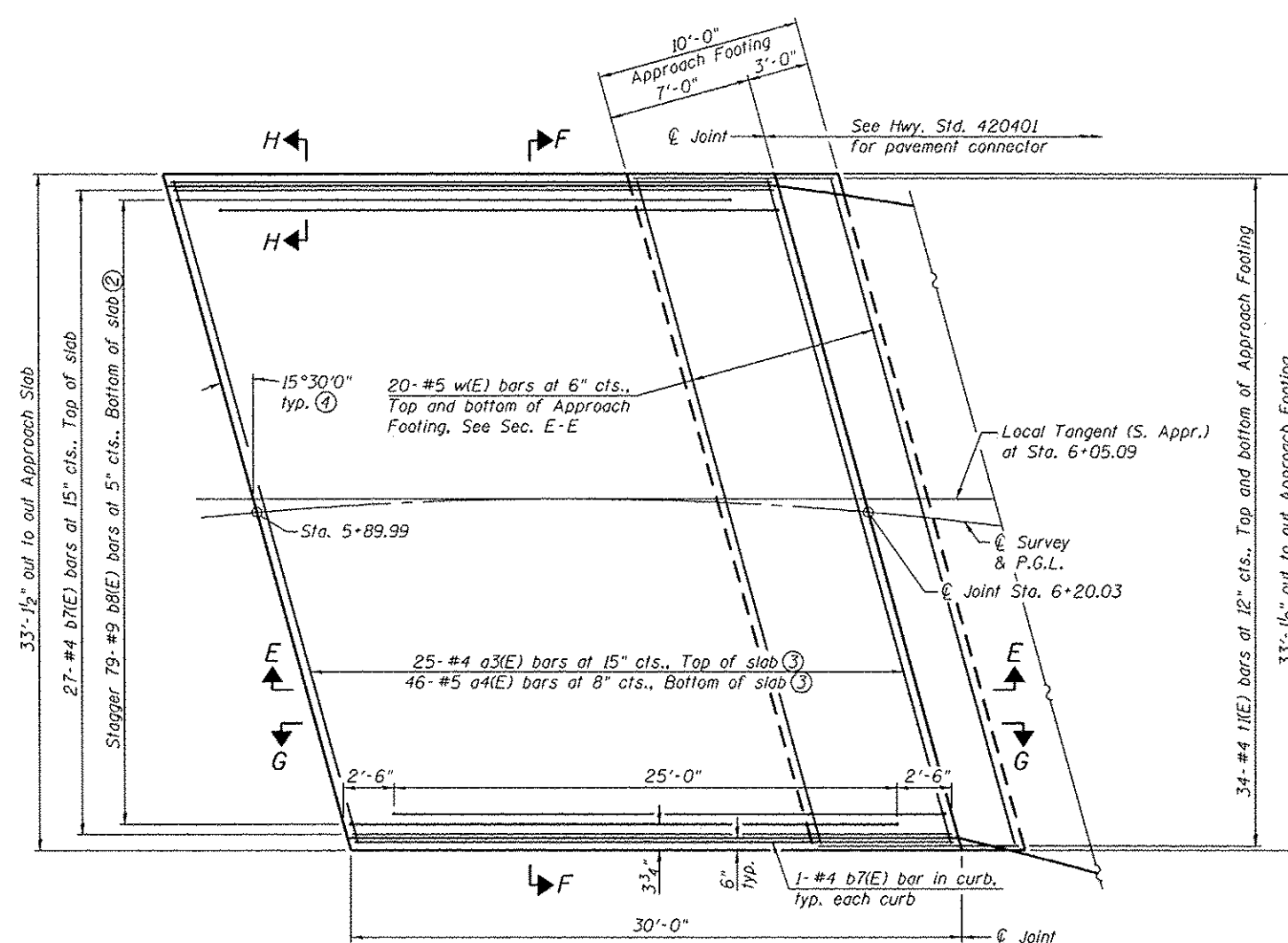
Location	Anticipated Inver Elev. (4)
Bk. of N. Abut.	462.19
☿ Pier 1	462.55
☿ Pier 2	462.98
Bk. of S. Abut.	463.34

Notes:

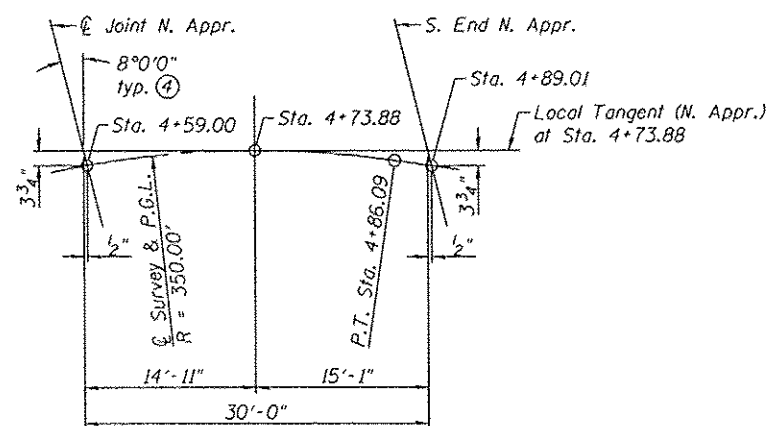
- ① Anchor bolts shall be a minimum diameter of $\frac{1}{2}$ " and minimum steel grade of 36 ksi. Each anchor bolt shall be capable of resisting a minimum tensile force of 10.0 kips. Anchor bolts shall be drilled and set into hardened concrete according to Article 521.06 of the Standard Specifications. The system shall be suitable for overhead installation.
- ② $\frac{3}{4}$ " ϕ HS bolts, $\frac{1}{16}$ " ϕ holes.
- ③ For detailed requirements for Pipe Roller Supports, see Special Provisions.
- ④ Sewer support system and openings in abutments and piers shall be detailed to maintain a constant flowline grade from back to back of abutments. Contractor to coordinate all details and elevations and include with shop drawings for approval by the Engineer.
- ⑤ Pipe and Pipe Roller Supports not shown for clarity.
- ⑥ All steel components of the Sanitary Sewer Support shall be paid for as Furnishing and Erecting Structural Steel.
- ⑦ For Sanitary Sewer Supports near piers, place support with outstanding legs of $L4 \times 4 \times \frac{1}{2}$ angles directed away from pier wall.



NORTH APPROACH PLAN

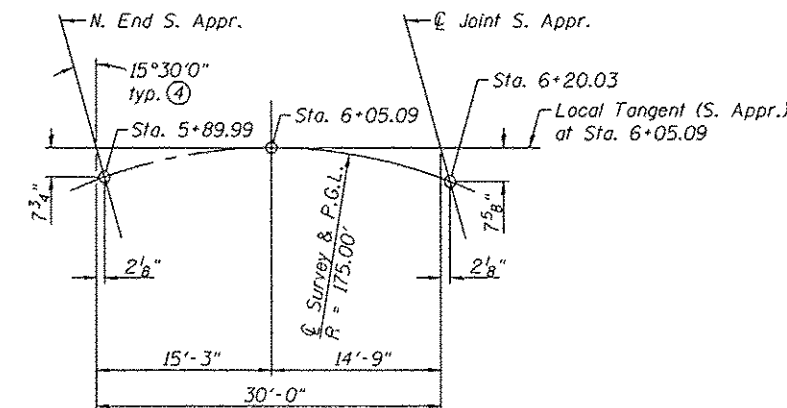


SOUTH APPROACH PLAN



OFFSET SKETCH - NORTH APPROACH SLAB

- Notes:
- For Sections E-E & F-F and Views G-G & H-H, see sheet 9 of 17.
 - Tilt #9 b8(E) bars as required to maintain clearance.
 - Bar spacing measured along Local Tangent to Approach Slab.
 - Angle is with respect to Local Tangent.



OFFSET SKETCH - SOUTH APPROACH SLAB



ILLINOIS
DEPARTMENT OF TRANSPORTATION
CONTRACT NO. 060-6307
SHEET NO. 8 OF 17 SHEETS

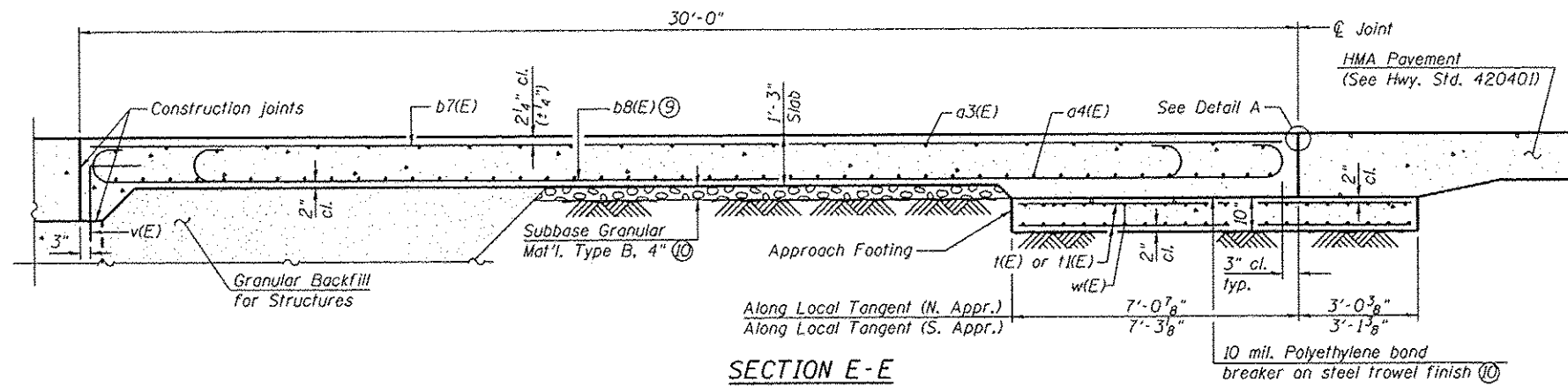
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	CHECKED - JAD	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

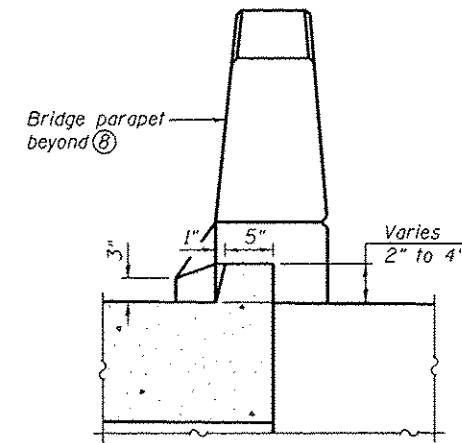
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-6307

SHEET NO. 8 OF 17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9134	10-00091-02-BR	MADISON	36	21
CONTRACT NO. 97543				
ILLINOIS FED. AID PROJECT				



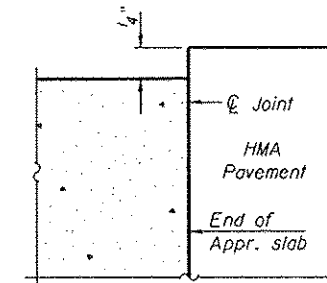
SECTION E-E



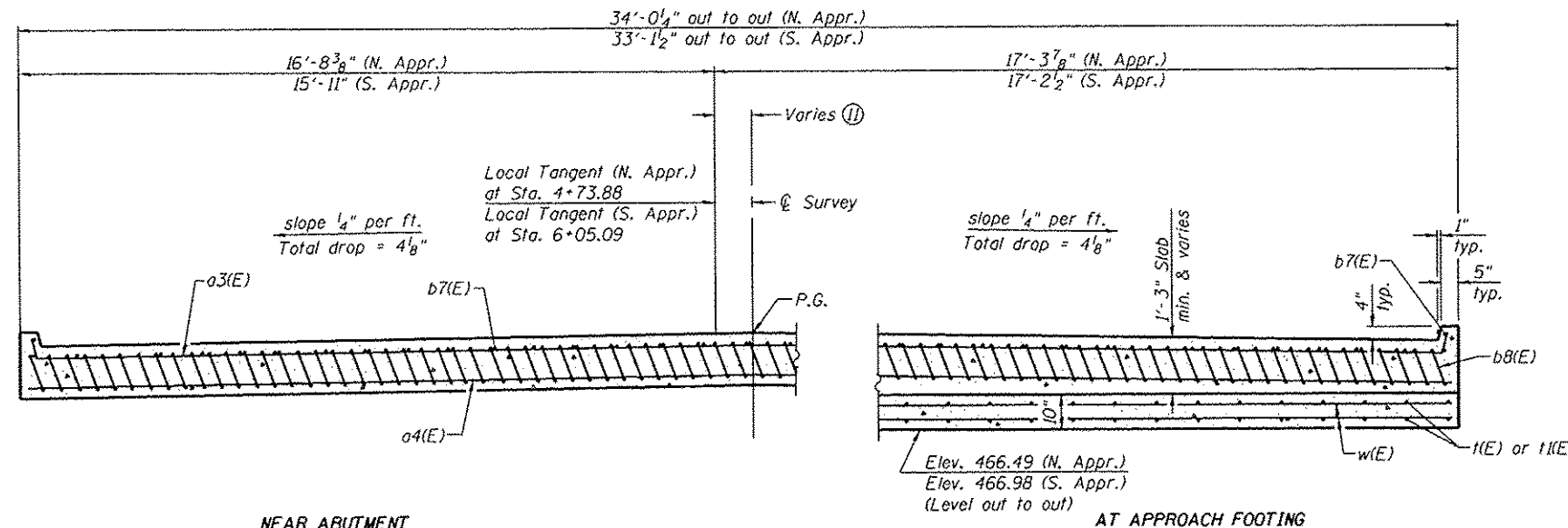
VIEW H-H

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a3(E)	50	#4	34'-6"	
a4(E)	92	#5	34'-0"	
b7(E)	59	#4	29'-8"	
b8(E)	160	#9	29'-9"	
1(E)	70	#4	9'-9"	
11(E)	68	#4	10'-0"	
w(E)	80	#5	34'-0"	
Concrete Structures			Cu. Yd.	21.1
Concrete Superstructure			Cu. Yd.	103.2
Reinforcement Bars, Epoxy Coated			Pound	25,520



DETAIL A

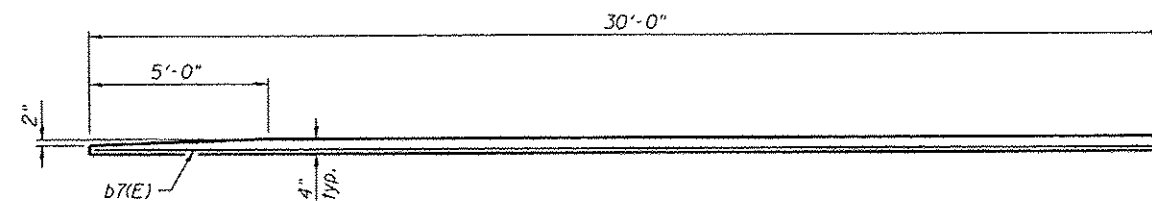


NEAR ABUTMENT

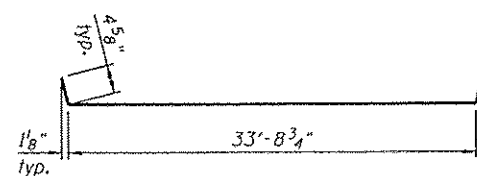
SECTION F-F

(See Plan for dimensions not shown)

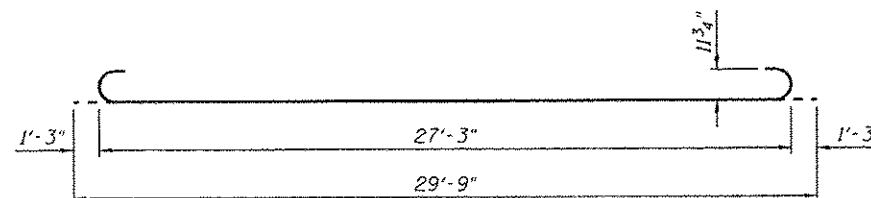
AT APPROACH FOOTING



VIEW G-G



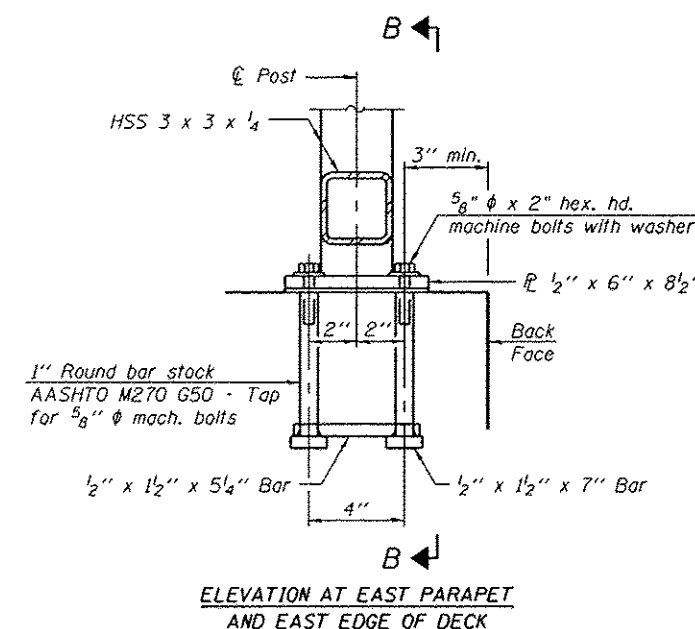
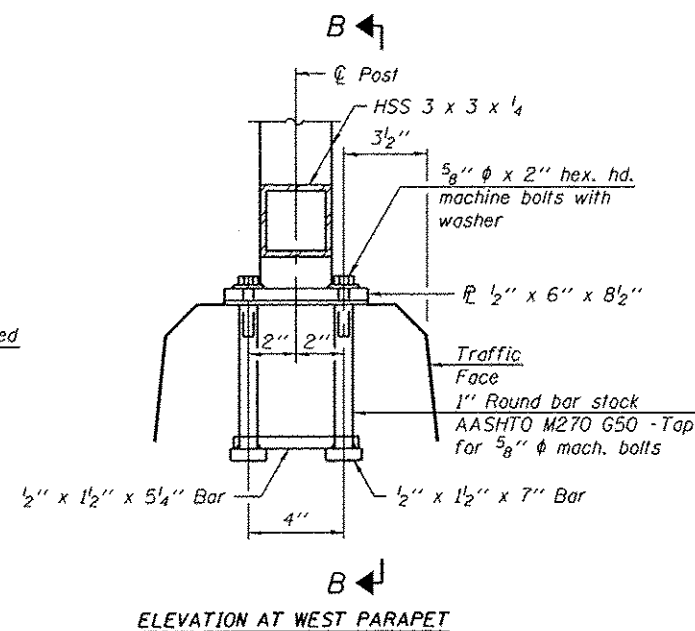
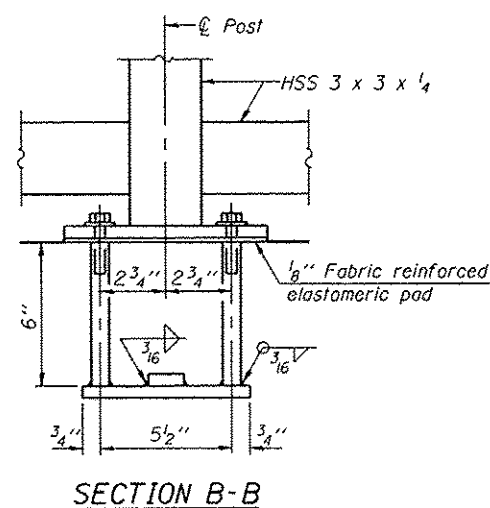
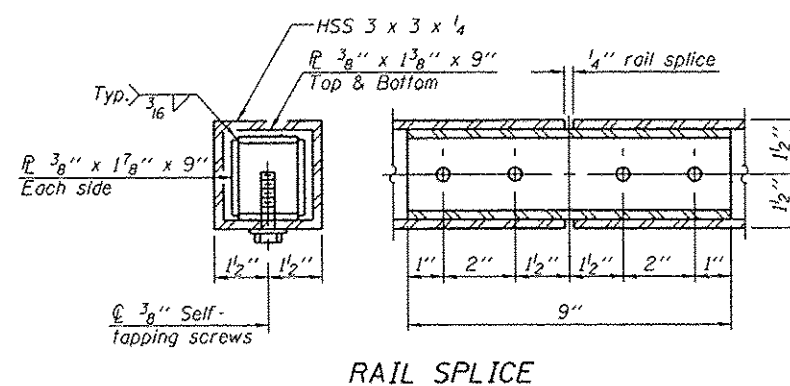
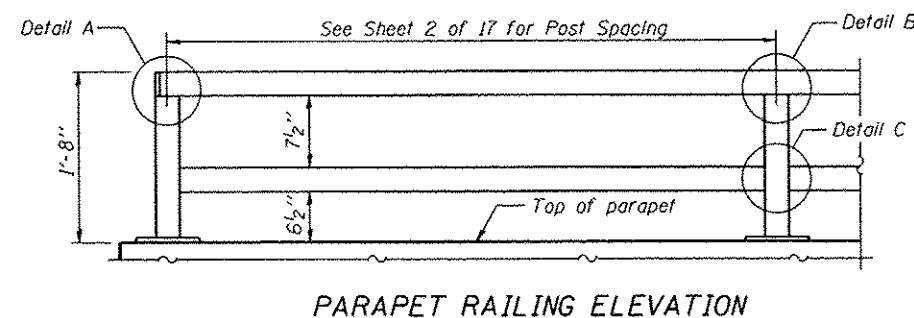
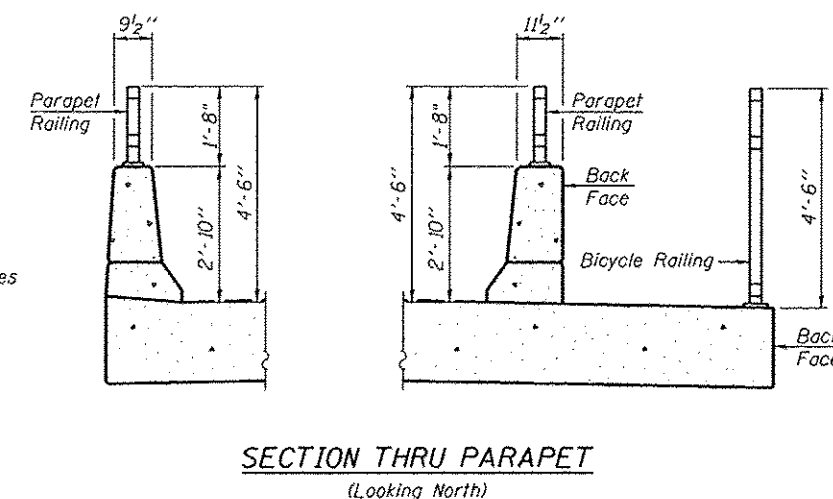
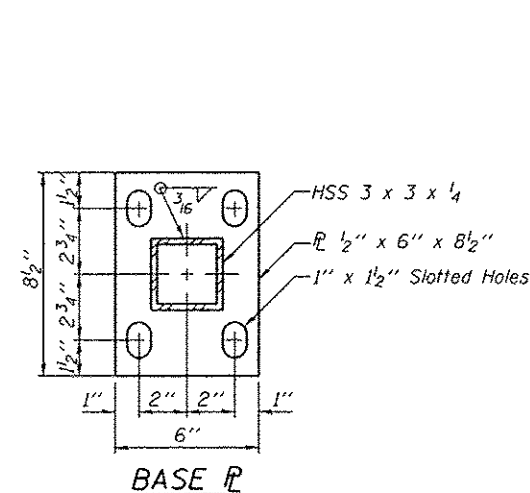
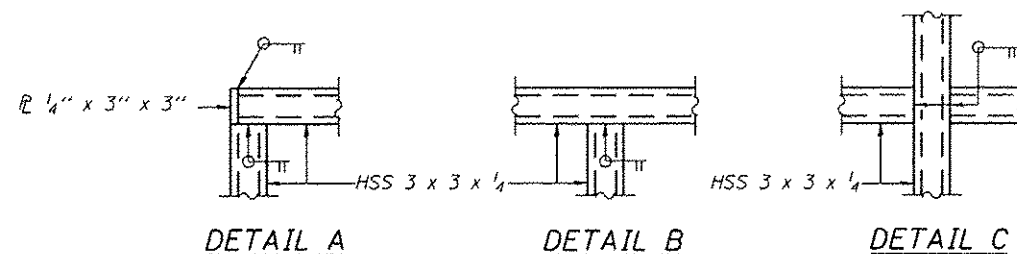
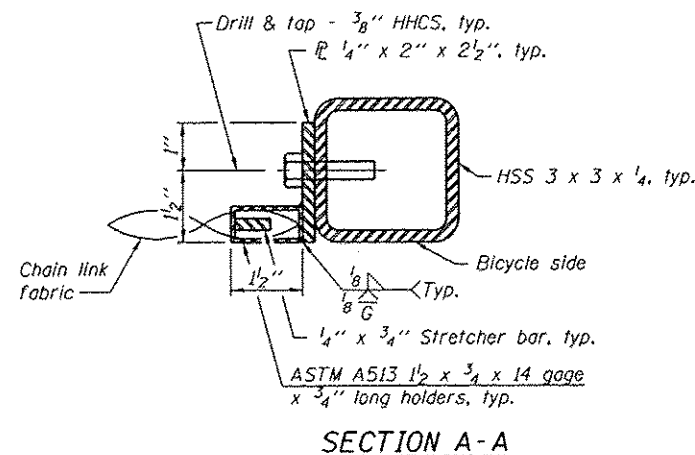
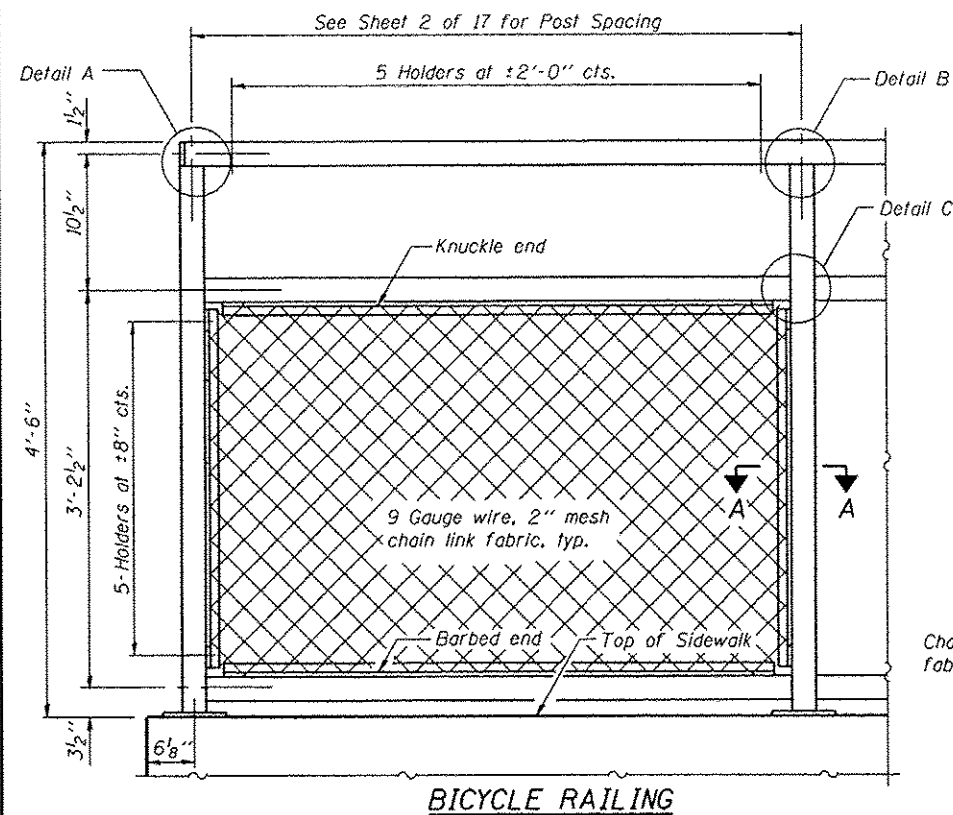
BAR a3(E)



BAR b8(E)

Notes:

- Approach slab concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v(E) bar details, see sheet 11 and 12 of 17.
- 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 17.
- For bridge parapet details, see sheet 6 of 17.
- Tilt #9 b8(E) bars as required to maintain clearance.
- Cost included with Concrete Superstructure.
- See Offset Sketches on sheet 8 of 17.
- Calculated weight of Reinforcement Bars, Epoxy Coated = 21,770 (Superstructure) 3,750 (Substructure)



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	100
Parapet Railing	Foot	192



STATION
Cabinet Building Center 1
1701 Linder Court, Suite 1
Columbia, IL 62234
Tel: 618.345.2200
Fax: 618.345.2201
www.mteaassociates.com

MINIMUM
Lumber One Building
770 One, Suite 1000
St. Louis, MO 63101
Tel: 314.585.8881
Fax: 314.585.8882

USER NAME =
DESIGNED - SUN
CHECKED - JAD
DRAWN - SUN
PLOT SCALE =
PLOT DATE =

DESIGNED - SUN
CHECKED - JAD
DRAWN - SUN
PLOT SCALE =
PLOT DATE =

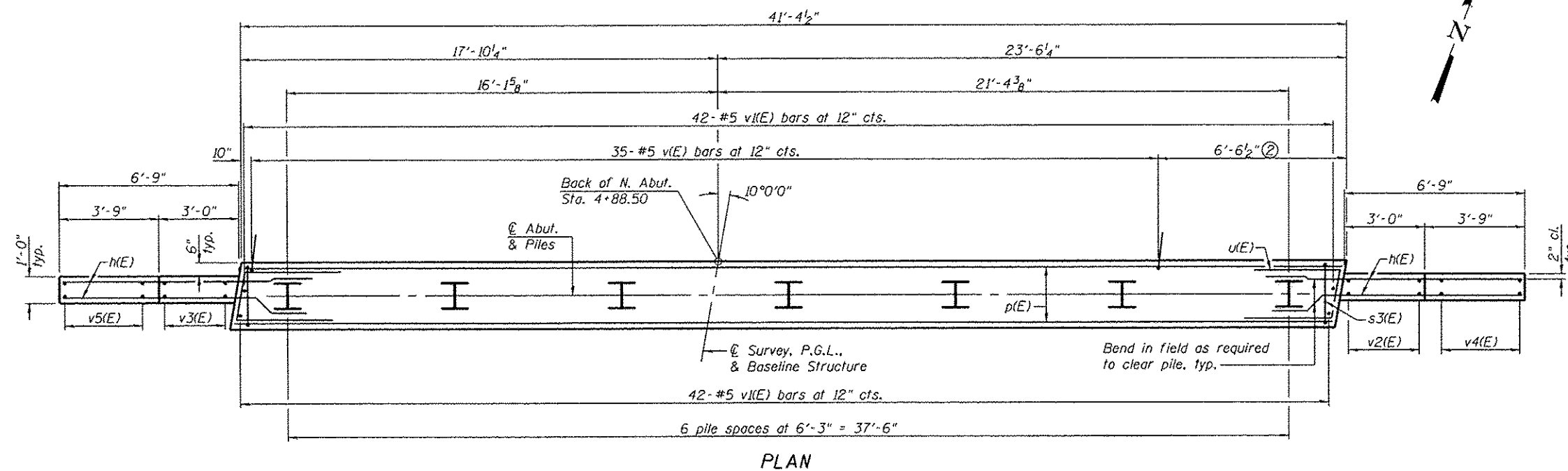
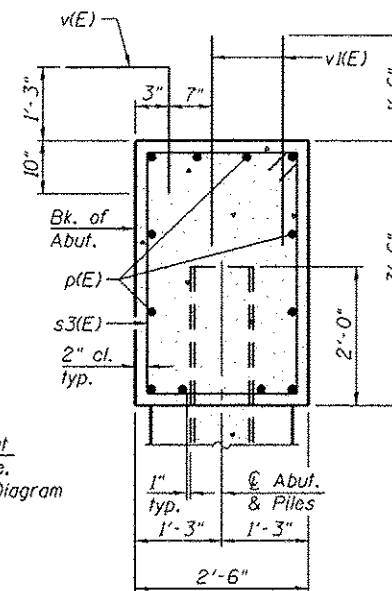
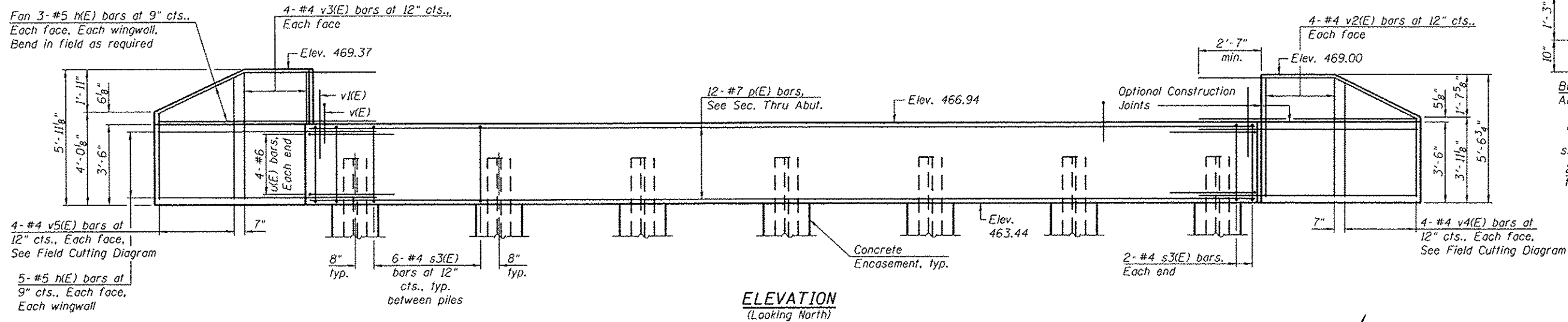
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CHECKED - JAD
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PLOT DATE =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING
STRUCTURE NO. 060-6307

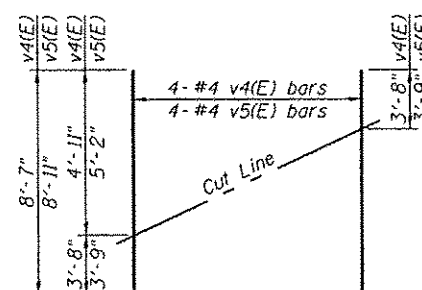
SHEET NO. 10 OF 17 SHEETS

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RTE. 9134
SECTION 10-00091-02-BR
COUNTY MADISON
TOTAL SHEETS 36
SHEET NO. 23
CONTRACT NO. 97543
ILLINOIS FED. AID PROJECT



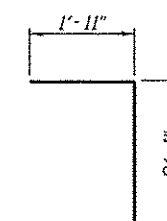
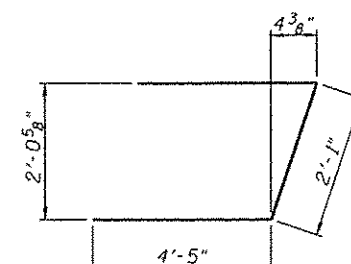
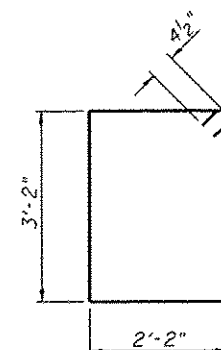
PILE DATA

Type: Steel HP12x53 with Pile Shoes
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 58 ft
 No. Production Piles: 6
 No. Test Piles: 1



FIELD CUTTING DIAGRAM

Order v4(E) and v5(E) full length. Cut as shown
 and use remainder of bars in opposite face.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	9'-4"	
p(E)	12	#7	41'-0"	
s3(E)	40	#4	11'-5"	□
u(E)	8	#6	10'-11"	⌌
v(E)	35	#5	4'-0"	┐
v(E)	84	#5	3'-0"	
v2(E)	8	#4	5'-3"	
v3(E)	8	#4	5'-6"	
v4(E)	4	#4	8'-7"	
v5(E)	4	#4	8'-11"	
Structure Excavation		Cu. Yd.	56	
Concrete Structures		Cu. Yd.	16.0	
Concrete Encasement		Cu. Yd.	2.4	
Reinforcement Bars, Epoxy Coated		Pound	2,270	
Furnishing Steel Piles HP12x53		Foot	348	
Driving Piles		Foot	348	
Test Pile Steel HP12x53		Each	1	
Pile Shoes		Each	7	

- Notes:
- For details of piles and Concrete Encasement, see sheet 14 of 17.
 - v(E) bars not used outside the limits of Bridge Approach Slab.



BATES ASSOCIATES, Inc.
 100 Lakeside Drive, Suite 1
 Channahon, IL 61515
 Tel: 815.345.2350
 Fax: 815.345.7350
 www.batesassociates.com

USER NAME :
 PLOT SCALE :
 PLOT DATE :

DESIGNED - SJN
 CHECKED - JAD
 DRAWN - SJN
 CHECKED - JAD

REVISED
 REVISED
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
 STRUCTURE NO. 060-6307

SHEET NO. 11 OF 17 SHEETS

F.A.U. RTE. 9134

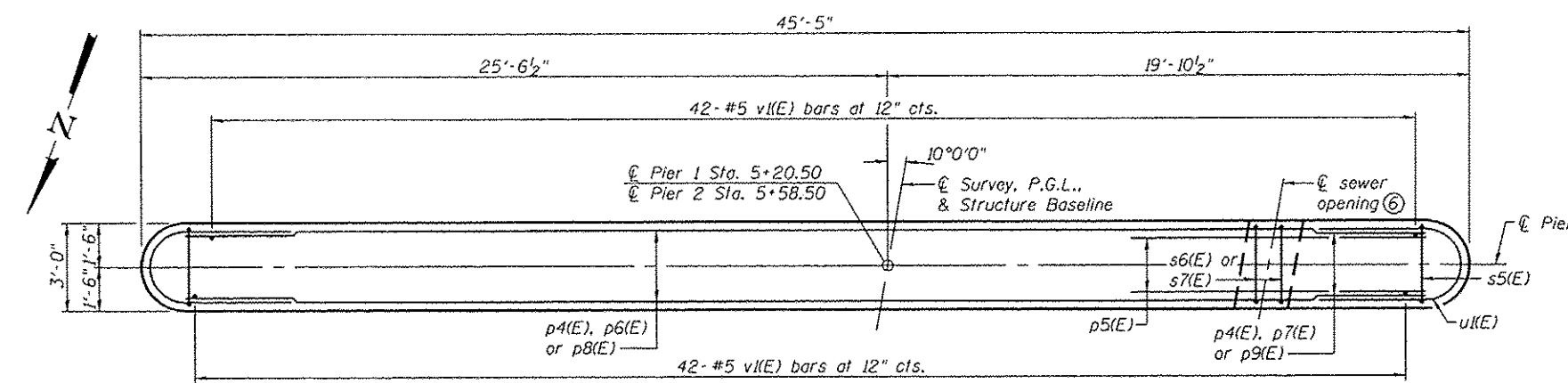
SECTION 10-00091-02-BR

COUNTY MADISON

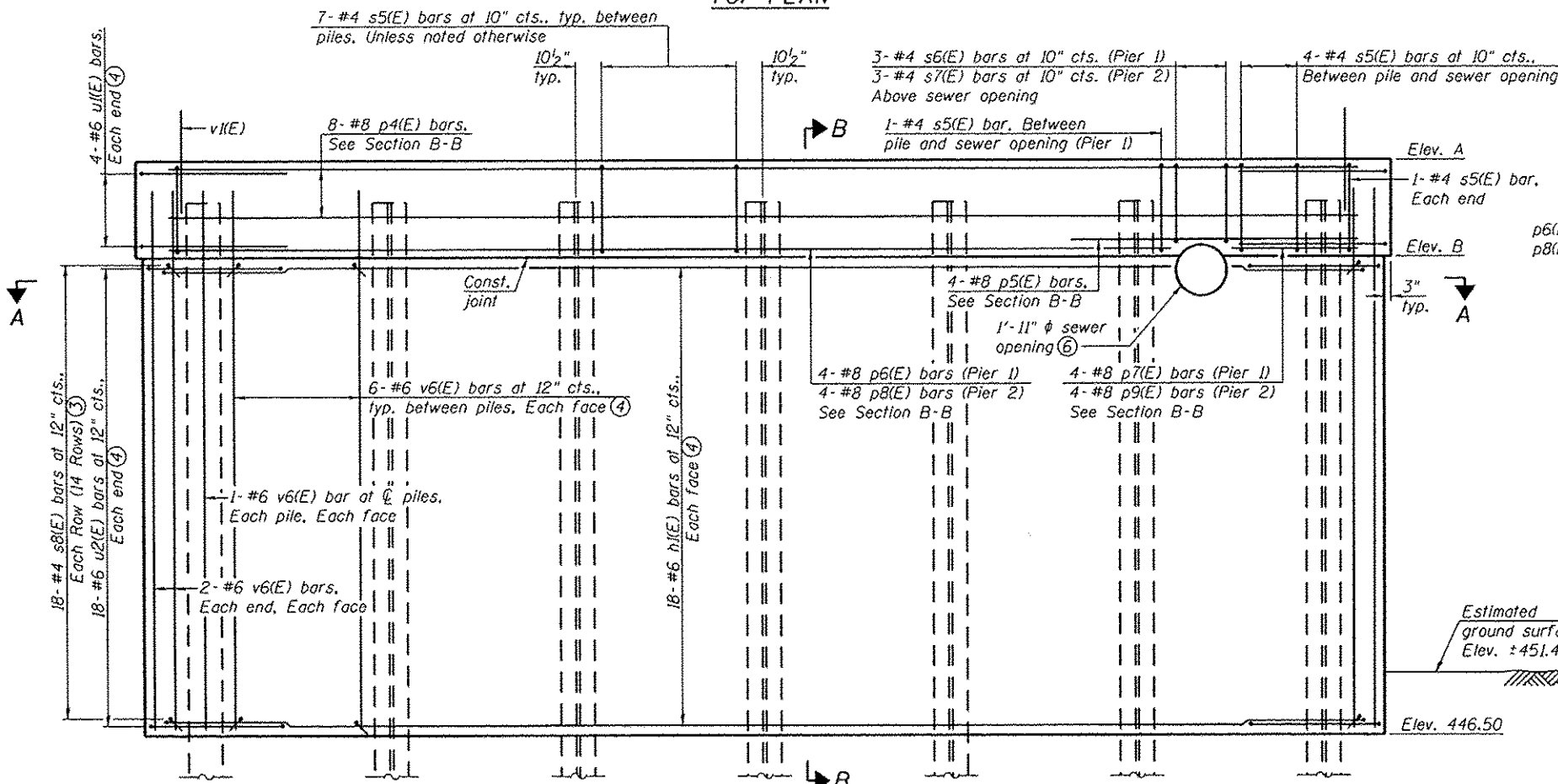
TOTAL SHEETS 36 SHEET NO. 24

CONTRACT NO. 97543

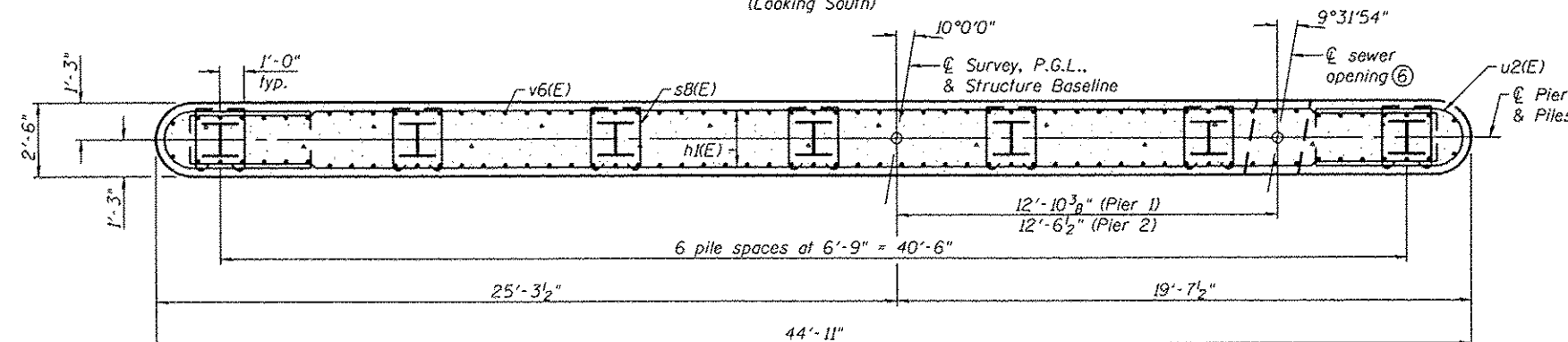
ILLINOIS FED. AID PROJECT



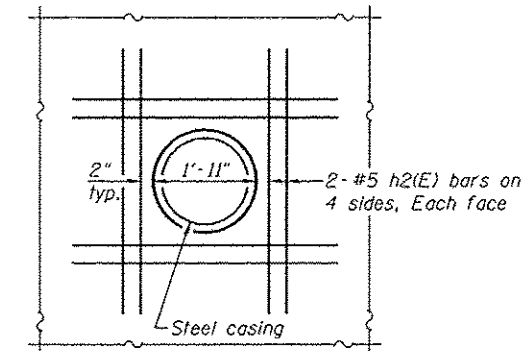
TOP PLAN



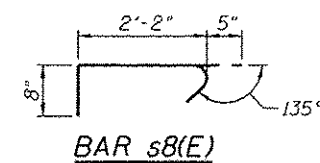
ELEVATION
(Looking South)



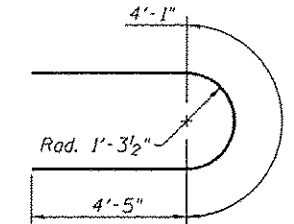
SECTION A-A



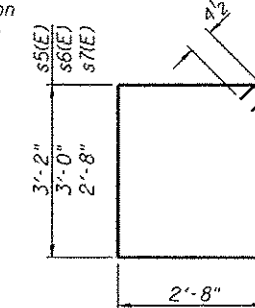
SEWER OPENING



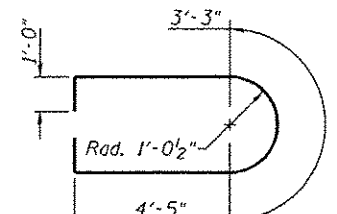
BAR s8(E)



BAR u1(E)



BARS s5(E), s6(E), & s7(E)

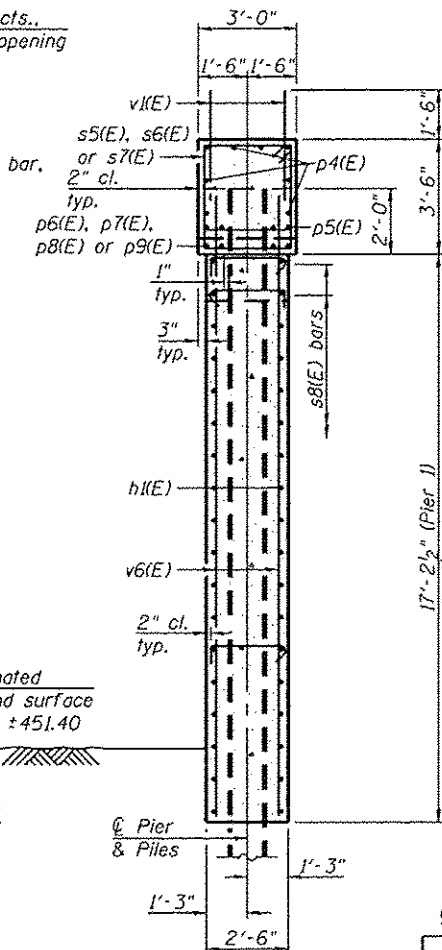


BAR u2(E)

**TWO PIERS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	72	#6	44'-5"	
h2(E)	32	#5	5'-0"	
p4(E)	16	#8	42'-5"	
p5(E)	8	#8	13'-11"	
p6(E)	4	#8	35'-6"	
p7(E)	4	#8	4'-2"	
p8(E)	4	#8	35'-2"	
p9(E)	4	#8	4'-5"	
s5(E)	83	#4	12'-5"	
s6(E)	3	#4	12'-1"	
s7(E)	3	#4	11'-5"	
s8(E)	504	#4	3'-3"	
u1(E)	16	#6	12'-11"	
u2(E)	72	#6	14'-1"	
v1(E)	168	#5	3'-0"	
v6(E)	188	#6	19'-0"	
Structure Excavation				Cu. Yd. 150
Cofferdam (Type 1) (Location-1)				Each 1
Cofferdam (Type 1) (Location-2)				Each 1
Concrete Structures				Cu. Yd. 176.4
Reinforcement Bars, Epoxy Coated				Pound 17,480
Furnishing Steel Piles HPI4x73				Foot 832
Driving Piles				Foot 832
Test Pile Steel HPI4x73				Each 1
Pile Shoes				Each 14

BAR h1(E)



SECTION B-B

PILE DATA - PIER 1

Type: Steel HPI4x73 with Pile Shoes
Nominal Required Bearing: 578 kips
Factored Resistance Available: 318 kips
Est. Length: 64 ft
No. Production Piles: 7
No. Test Piles: 0

PILE DATA - PIER 2

Type: Steel HPI4x73 with Pile Shoes
Nominal Required Bearing: 578 kips
Factored Resistance Available: 318 kips
Est. Length: 64 ft
No. Production Piles: 6
No. Test Piles: 1

ELEVATION TABLE

	A	B
Pier 1	467.21	463.71
Pier 2	467.26	463.76

Notes:

- For details of piles, see sheet 14 of 17.
- Cofferdam Location-1 corresponds to Pier 1 and Location-2 corresponds to Pier 2.
- Space s8(E) bars vertically with h1(E) bars on each side of pile. Alternate s5(E) bars end for end as shown in Section B-B.
- Cut reinforcement as required to clear sewer opening.
- For steel casing and sanitary sewer layout and general notes, see roadway plans.
- Sewer support system and openings in abutments and piers shall be detailed to maintain a constant flowline grade from back to back of abutments. Contractor to coordinate all details and elevations and include with shop drawings for approval by the Engineer. For anticipated invert elevations, see sheet 7 of 17.



WATER ASSOCIATES
Engineering & Architecture
1000 Lakeside Drive, Suite 100
Columbia, SC 29201
Tel: 803.733.1111
Fax: 803.733.1112
www.waterassociates.com

USER NAME: JAD
DESIGNED: S.J.N.
CHECKED: JAD
DRAWN: S.J.N.
PLOT SCALE: 1"=10'-0"
PLOT DATE: 10/1/11

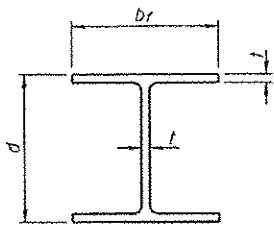
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CHECKED: JAD
DRAWN: S.J.N.
PLOT SCALE: 1"=10'-0"
PLOT DATE: 10/1/11

DESIGNED: S.J.N.
CHECKED: JAD
DRAWN: S.J.N.
PLOT SCALE: 1"=10'-0"
PLOT DATE: 10/1/11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

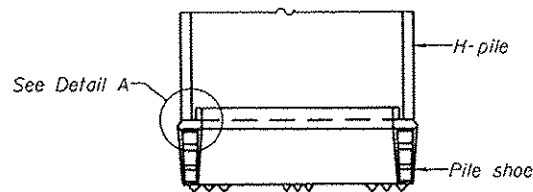
PIER DETAILS
STRUCTURE NO. 060-6307
SHEET NO. 13 OF 17 SHEETS

F.A.U. 9134
SECTION 10-00091-02-BR
COUNTY MADISON
TOTAL SHEETS 36
SHEET NO. 26
CONTRACT NO. 97543
ILLINOIS FED. AID PROJECT

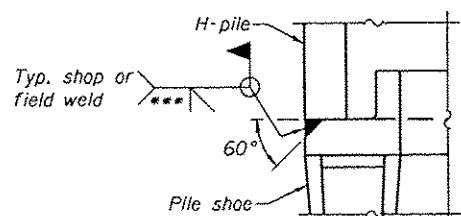


STEEL PILE TABLE

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	24"
x74	12 3/8"	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"

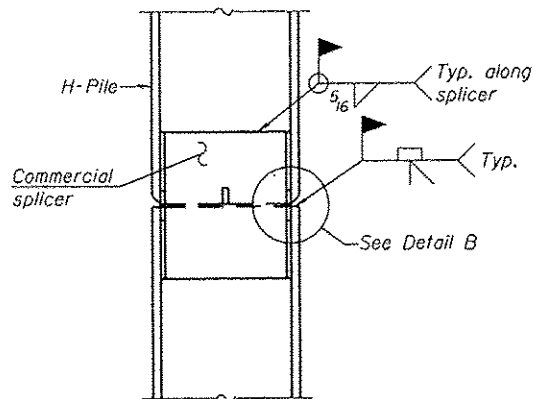


ELEVATION

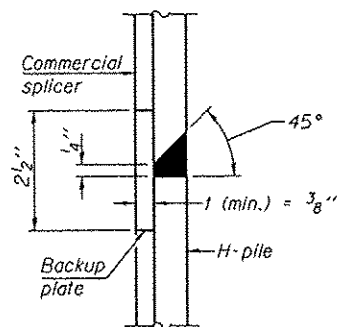


DETAIL A

H-PILE SHOE ATTACHMENT

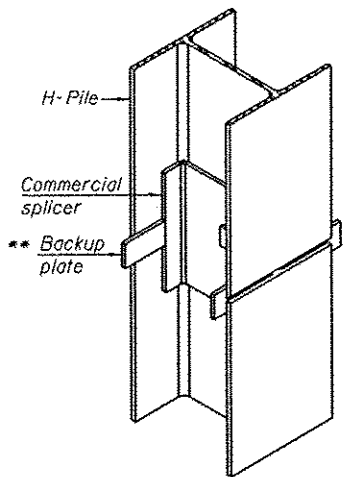


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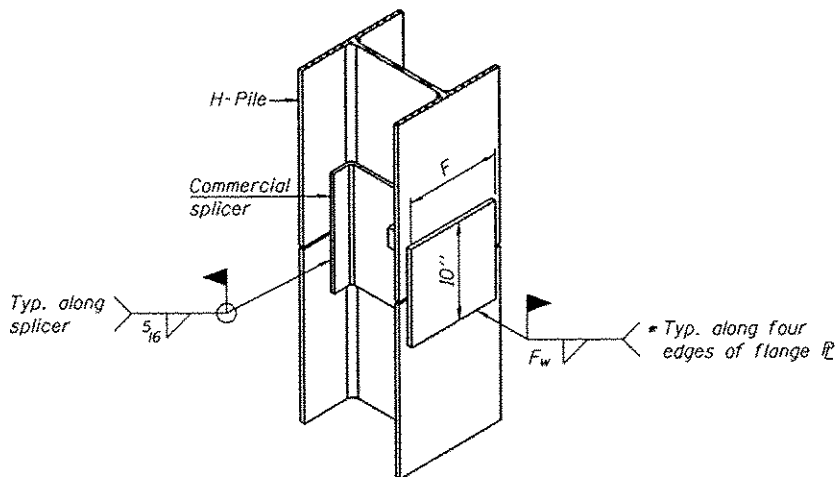


DETAIL "B"

WELDED COMMERCIAL SPLICE



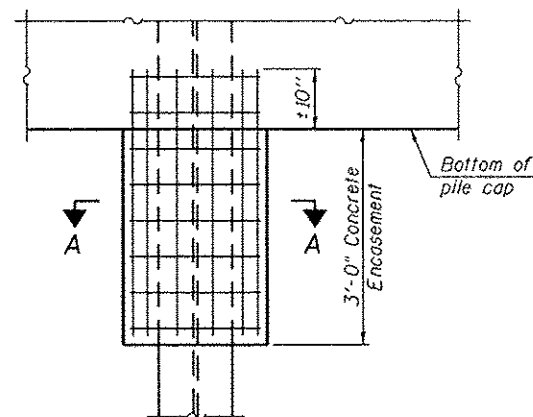
ISOMETRIC VIEW



ISOMETRIC VIEW

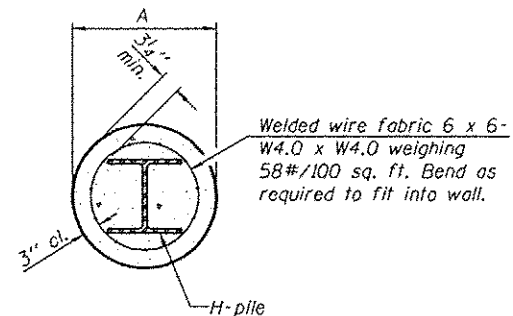
WELDED COMMERCIAL SPLICE ALTERNATE

- * 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.).



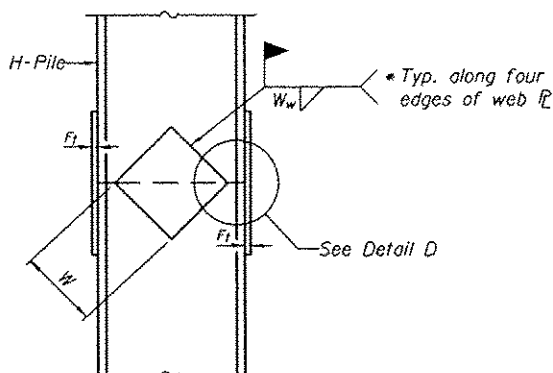
ELEVATION

PILE ENCASEMENT

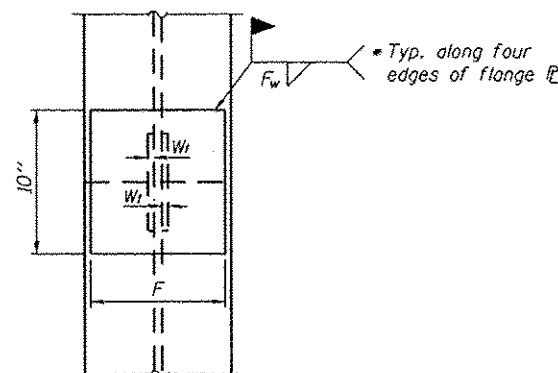


SECTION A-A

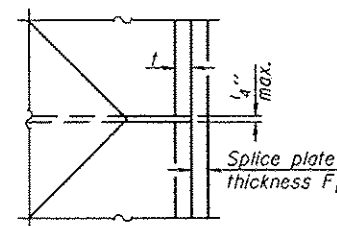
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _l	F _w	W	W _l	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 8/8"	1 1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 8/8"	1 1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5 8/8"	1 1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 8/8"	1 1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5 8/8"	1 1/2"
x74	10"	7/8"	11/16"	6 1/2"	5 8/8"	1 1/2"
x63	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1 1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1 1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1 1/2"	3/8"

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

F-HP

1-27-12



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PLOT SCALE :	CHECKED -	REVISED
PLOT DATE :	DRAWN -	REVISED
	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 060-6307

SHEET NO. 14 OF 17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9134	10-00091-02-BR	MADISON	36	27
				CONTRACT NO. 97543
ILLINOIS FED. AID PROJECT				

Page 1 of 2

Date 1/16/12

ROUTE FAU 9314 DESCRIPTION South Clinton Street Bridge over Canteen Creek LOGGED BY RFW

SECTION 10-00091-02-BR LOCATION Collinsville, IL, SEC. 34, TWP. T3N, RNG. R4W

COUNTY Madison DRILLING METHOD HSA and MR below 50 ft HAMMER TYPE CME 55 / 80%

STRUCY. NO. <u>060-5307</u>	D	B	U	M	Surface Water Elev. <u>Not Measured</u> ft		D	B	U	M
Station <u> </u>	E	L	C	O	Stream Bed Elev. <u>454.0</u> ft		E	L	C	O
	P	O	S	I			P	O	S	I
	T	W		S			T	W		S
BORING NO. <u>B-1</u>	H	S	Qu	T	Groundwater Elev.: <u> </u> ft		H	S	Qu	T
Station <u>7+20</u>					First Encounter <u> </u> ft					
Offset <u>5R R</u>					Upon Completion <u> </u> ft					
Ground Surface Elev. <u>469.5</u> ft	(ft)	(6")	(inf)	(%)	After <u> </u> Hrs. <u> </u> ft		(ft)	(6")	(inf)	(%)

Soil Description	Depth (ft)	Moisture (%)	Specific Gravity	Soil Type	Soil Description	Depth (ft)	Moisture (%)	Specific Gravity	Soil Type
Asphalt, sand, and silt (FILL)	465.2	2			Soft to medium stiff, brown to gray, SILT (continued)				
		4	0.9	22					
		5	S						
Gray, LOAM (FILL)		3							
		4		25					
		5							
	464.0								
Soft to medium stiff, brown to gray, SILT		1							
		1		29					
		3							
		ST	0.4	23		1			
			S			2	1.0	26	
	-10					2	S		
		1							
		2	0.7	26					
		2	S						
		1							
		1	0.4	34					
	-15	2	B						
no recovery									
		ST							
		ST	0.4	34		1			
			B			0	0.7	26	
						1	B		
	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T296)
* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used
BBS, from 137 (Rev. 5-99)



Page 2 of 2

Date 1/16/12

ROUTE	FAU 9314	DESCRIPTION	South Clinton Street Bridge over Canteen Creek	LOGGED BY	RFW
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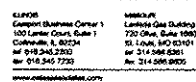
SECTION 10-00091-02-8R LOCATION Collinsville, IL, SEC. 34, TWP. 13N, RNG. R4W

COUNTY Madison DRILLING METHOD HSA and MR below 50 ft HAMMER TYPE CME 55 / 80%

STRUCT. NO. <u>060-8307</u>	D	B	U	M	Surface Water Elev. <u>Not Measured</u> ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. <u>454.0</u> ft	E	L	C	O
	P	O	S	S		P	O	S	S
BORING NO. <u>B-1</u>	H	W	Q	T	Groundwater Elev.: _____	H	W	Q	T
Station <u>7+29</u>					First Encounter _____ ft				
Offset <u>5 ft R</u>					Upon Completion _____ ft				
Ground Surface Elev. <u>469.5</u> ft	(ft)	(ft)	(tsf)	(%)	After _____ Hrs. _____ ft	(ft)	(ft)	(tsf)	(%)

Soil Description	Depth (ft)	Soil Description	Depth (ft)	Soil Description	Depth (ft)
Soft to medium stiff, brown to gray, SILT (continued)		Soft, gray to bluish gray, highly to slightly weathered, SHALE (continued)			
	425.5		495.2	5072	10
Medium stiff, gray, SANDY CLAY LOAM		End of Boring			
	2				
	2				19
	3				
	417.5				
Soft, gray to bluish gray, highly to slightly weathered, SHALE					
	11				
	21				15
	41				
	50/4				7

* Rimac attempted, not measured due to sample disturbance
 ** Not measured due to drilling methods used



USER NAME *	DESIGNED ~	REVISED
	CHECKED ~	REVISED
PLOT SCALE *	DRAWN ~	REVISED
PLOT DATE *	CHECKED ~	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS
STRUCTURE NO. 060-6307

SHEET NO. 15 OF 17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9134	10-00091-Q2-BR	MADISON	36	28
		CONTRACT NO. 97543		
ILLINOIS FLOOD CONTROL DISTRICT				



Page 1 of 2

Date 1/16/12

ROUTE FAU 9314 DESCRIPTION South Clinton Street Bridge over Canteen Creek LOGGED BY RFW

SECTION 10-00091-02-8R LOCATION Collinsville, IL, SEC. 34, TWP. T3N, RNG. R4W

COUNTY Madison DRILLING METHOD HSA and MR below 15.5 ft HAMMER TYPE CME 65 / 80%

STRUCT. NO. <u>060-5307</u>	D E P T H	B L O C K S	M O I S T	Surface Water Elev. <u>Not Measured</u> ft	D E P T H	B L O C K S	M O I S T
Station _____				Stream Bed Elev. <u>454.0</u> ft			
BORING NO. <u>B-2</u>				Groundwater Elev.: _____			
Station <u>6+90</u>				First Encounter _____ ft			
Offset <u>58 L</u>				Upon Completion _____ ft			
Ground Surface Elev. <u>499.5</u> ft	(ft)	(6")	(12")	After _____ hrs.	(ft)	(6")	(12")

Asphalt - 2 inches
Concrete - 6 inches
Air - 14.6 foot

459.3
458.8

447.5

Soft, brown and black, SILTY CLAY (continued)

Soft to medium stiff, gray, CLAY

1
0 0.3 28
1 B

0
1 0.6 32
2 S

0
1 0.4 48
1 B

2
2 0.3 29
2 S

0
0 0.4 30
1 S

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T296)



Page 2 of 2

Date 1/16/12

ROUTE	FAU 9314	DESCRIPTION	South Clinton Street Bridge over Canteen Creek	LOGGED BY	RFW
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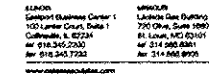
SECTION 10-00091-02-BR LOCATION Collinsville, IL, SEC.34, TWP. T3N, RNG. R4W

COUNTY Madison DRILLING METHOD HSA and MR below 15.5 ft HAMMER TYPE CME 55 / 80%

STRUCT. NO. <u>060-5307</u>	D	B	U	M	Surface Water Elev. <u>Not Measured</u> ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. <u>454.0</u> ft	E	L	C	O
	P	T	S	I		P	T	S	I
BORING NO. <u>B-2</u>	H	W	Q	T	Groundwater Elev.: _____	H	W	Q	T
Station <u>6+90</u>					First Encounter _____ ft				
Offset <u>58 L</u>					Upon Completion _____ ft				
Ground Surface Elev. <u>489.5</u> ft	(ft)	(6")	(in)	(%)	After _____ hrs. _____ ft	(ft)	(6")	(in)	(%)

[illegible]

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM T206)



USER NAME *	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE *	DRAWN -	REVISED
PLOT DATE *	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 060-6307

SHEET NO. 16 OF 17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9134	10-00091-02-BR	MADISON	36	29
		CONTRACT NO. 97543		
ILLINOIS FED. AID PROJECT				



Page 1 of 2

Date 1/16/12

ROUTE FAU 9314 DESCRIPTION South Clinton Street Bridge over Canteen Creek LOGGED BY RFW

SECTION 10-00091-02-BR LOCATION Collinsville, IL, SEC. 34, TWP. T3N, RNG. R4W

COUNTY Madison DRILLING METHOD HSA and MR below 20 ft HAMMER TYPE CME 55 / 80%

STRUCT. NO.	080-6307	D	B	U	M	Surface Water Elev. Not Measured	ft	D	B	U	M
Station		E	L	C	O	Stream Bed Elev.	454.0	E	L	C	O
		P	O	S	I			P	O	S	I
		T	W	Q	S			T	W	Q	S
BORING NO.	B-3					Groundwater Elev.:					
Station	6+10					First Encounter	**				
Offset	5 ft L					Upon Completion	**				
Ground Surface Elev.	489.5	ft	(ft)	(6")	(inf)	After	**	ft	(ft)	(6")	(inf)
					(%)						(%)

Ground Surface Elevation			Soft to medium stiff, gray, SILTY (continued)		
Grayish brown, SILTY, with rubble, asphalt, and cinder (FILL)	3	30			
	8				
	17				
	5				
	13	2.3	22		
	8	S			
464.0					
Grayish brown, SILTY, trace rubble (FILL)	5				
	8	0.7	22		
	9	S			
	3				
	6	0.9	10		
	8	S			
459.0					
Soft to medium stiff, gray, SILTY	2				
	2		30		
	2				
	ST	0.8			
		S			
	3				
	4	1.0	27		
	3	B			
	ST	0.4	20		
		S			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T266)

Page 2 of 2Date 1/16/12

ROUTE FAU 9314 DESCRIPTION South Clinton Street Bridge over Canteen Creek LOGGED BY RFW

SECTION 10-00091-02-BR LOCATION Collinsville, IL, SEC. 34, TWP. T3N, RNG. R4W

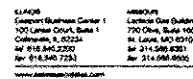
COUNTY Madison DRILLING METHOD HSA and MR below 20 ft HAMMER TYPE CME 55 / 80%

STRUCT. NO. <u>060-8307</u>	D	B	U	M	Surface Water Elev. <u>Not Measured</u> ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. <u>454.0</u> ft	E	L	C	O
	P	O	S	I		P	O	S	I
BORING NO. <u>B-3</u>	H	W	Q	T	Groundwater Elev.: _____	H	W	Q	T
Station <u>6+10</u>					First Encounter _____ ft				
Offset <u>5 ft L</u>					Upon Completion _____ ft				
Ground Surface Elev. <u>469.5</u> ft	(ft)	(6")	(tsf)	(%)	After _____ ft	(ft)	(6")	(tsf)	(%)

Borehole	Interval (ft)	Description	Depth (ft)	Remarks
	0 - 2	Soft to medium stiff, brown to gray, SILTY CLAY (continued)	0	
	2 - 28		28	End of Boring
	28 - 420.5		420.5	
	420.5 - 460	Stiff, gray, SILTY CLAY LOAM	460	
	460 - 490		490	
	490 - 504		504	
	504 - 560	Soft, gray, highly to moderately weathered, SHALE	560	
	560 - 564		564	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T205)

- * Rimac attempted, not measured due to sample disturbance
- ** Not measured due to drilling methods used



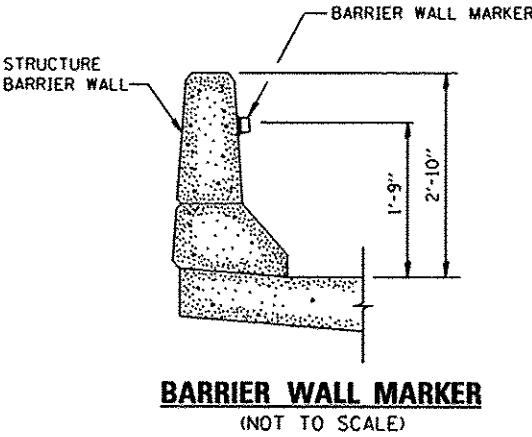
USER NAME *	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE *	DRAWN -	REVISED
PLOT DATE *	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

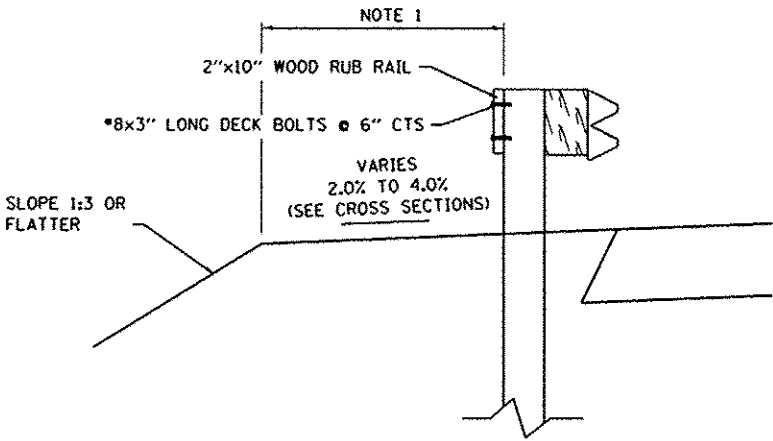
SOIL BORING LOGS
STRUCTURE NO. 060-6307

SHEET NO. 17 OF 17 SHEETS

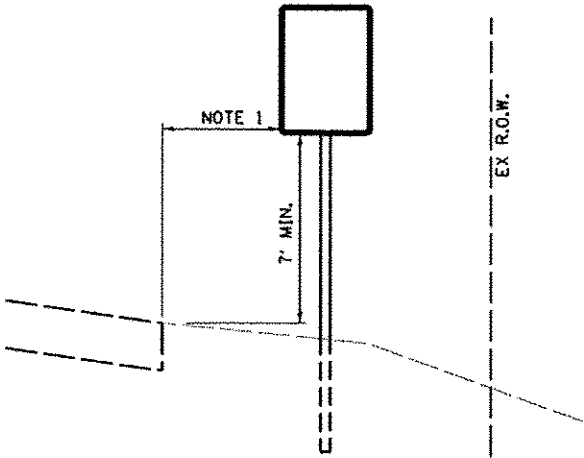
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9134	10-00091-02-BR	MADISON	36	30
CONTRACT NO.			97543	



- NOTES:
1. BARRIER WALL MARKER SHALL BE BI-DIRECTIONAL.
 2. BARRIER WALL MARKER SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
 3. BARRIER WALL MARKER SHALL BE CRYSTAL IN COLOR.



- NOTES:
1. 5' MIN. FROM STA 4+60 LT TO STA 4+86 LT AND STA 5+87 LT TO STA 6+15 LT.
VARIES 5' TO 2' (MIN) FROM STA 6+15 LT TO STA 6+73 LT.

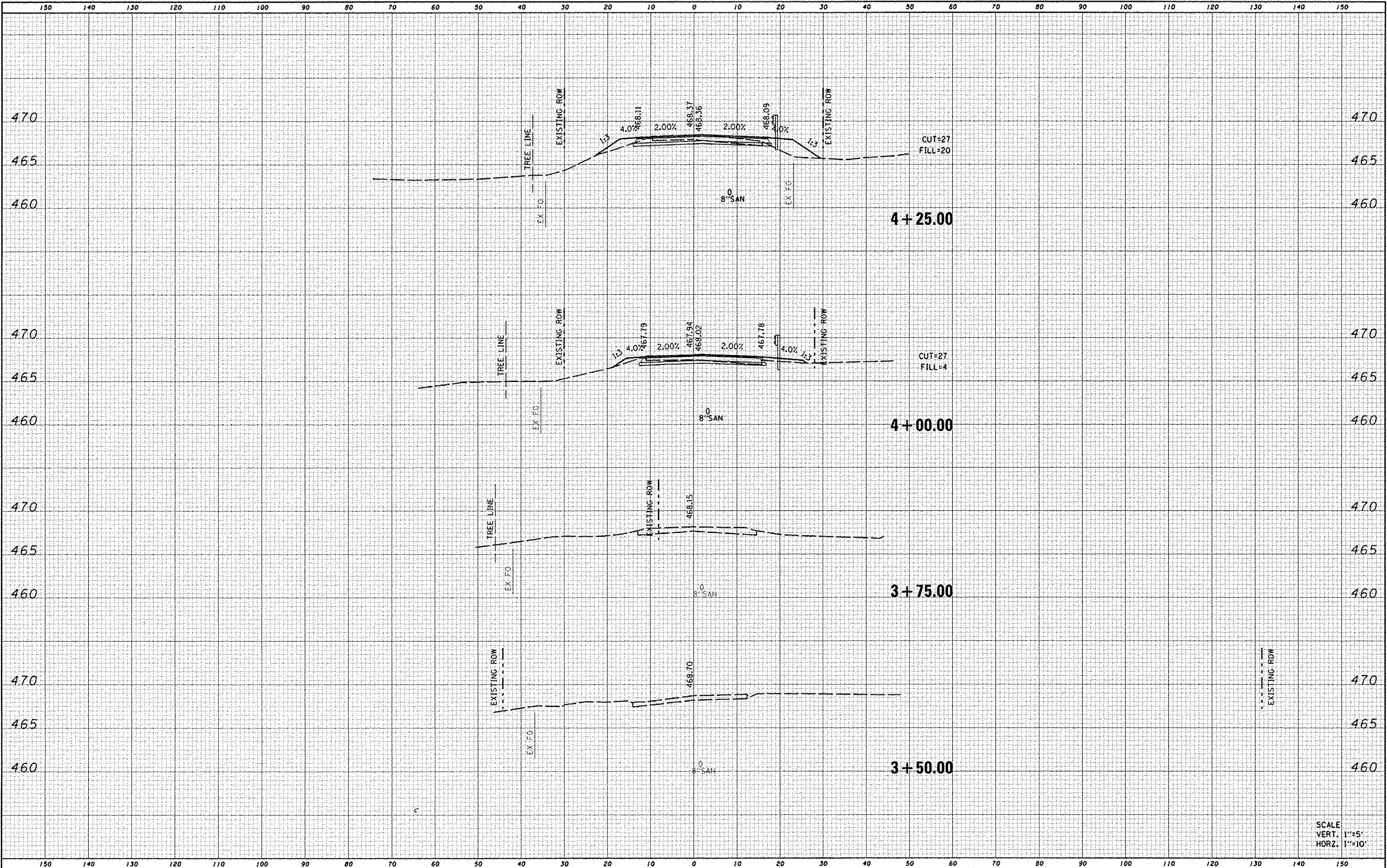


- NOTES:
1. ATTEMPT TO PLACE A MINIMUM OF 4' BEYOND THE EDGE OF PAVEMENT WHEN GUARDRAIL IS PRESENT AND 6' WHEN NOT.
 2. SEE SIGN SCHEDULE FOR SUGGESTED OFFSET.

FILE NAME : 0828848-ehi-details.dgn	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION DETAILS				F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT TIME = 01/29/10 AM	DRAWN -	REVISED -						9134	10-00091-02-BR	MADISON	36	31
	PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -		CLINTON ST BRIDGE RECONSTRUCT CONTRACT NO. 97543								
	PLOT DATE = 10/10/2013	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
				SCALE: NTS	SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.					

DATE	BY
DESIGNED	CHECKED
DRAWN	NOTED
DATE	BY

DATE	BY
DESIGNED	CHECKED
DRAWN	NOTED
DATE	BY

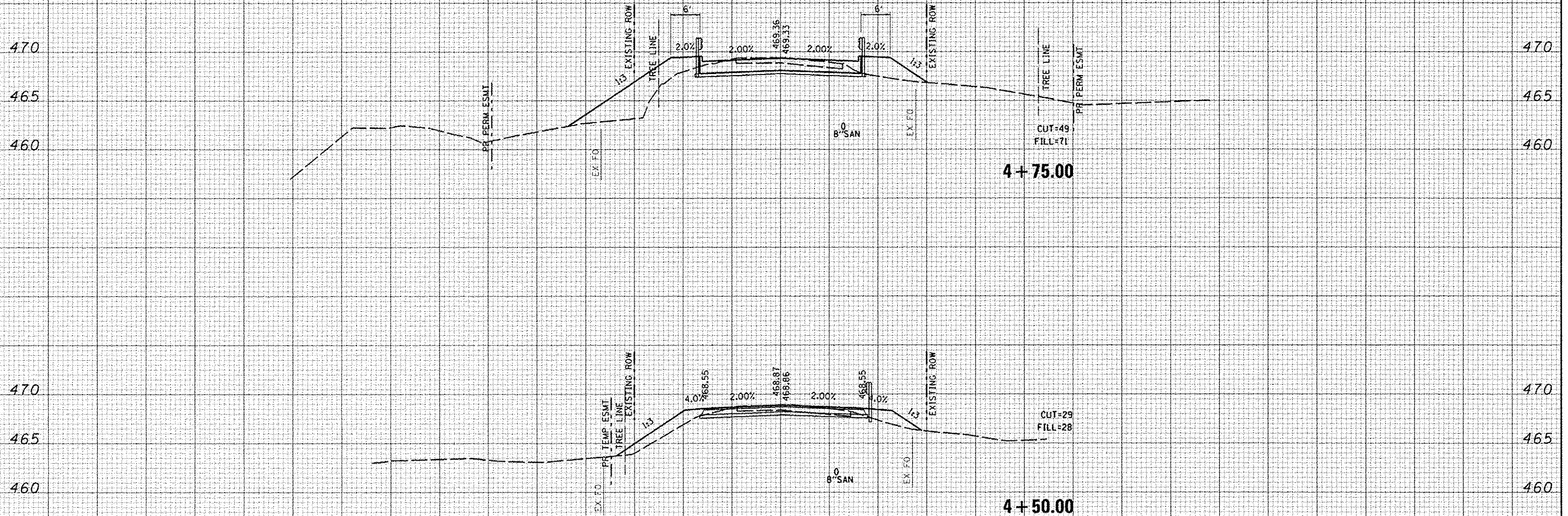


SCALE
VERT. 1"=5'
HORZ. 1"=10'

DATE	BY
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	

DATE	BY
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	

STRUCTURE, BRIDGE APPROACH PAVEMENT, AND CONNECTOR PAVEMENT OMISSION

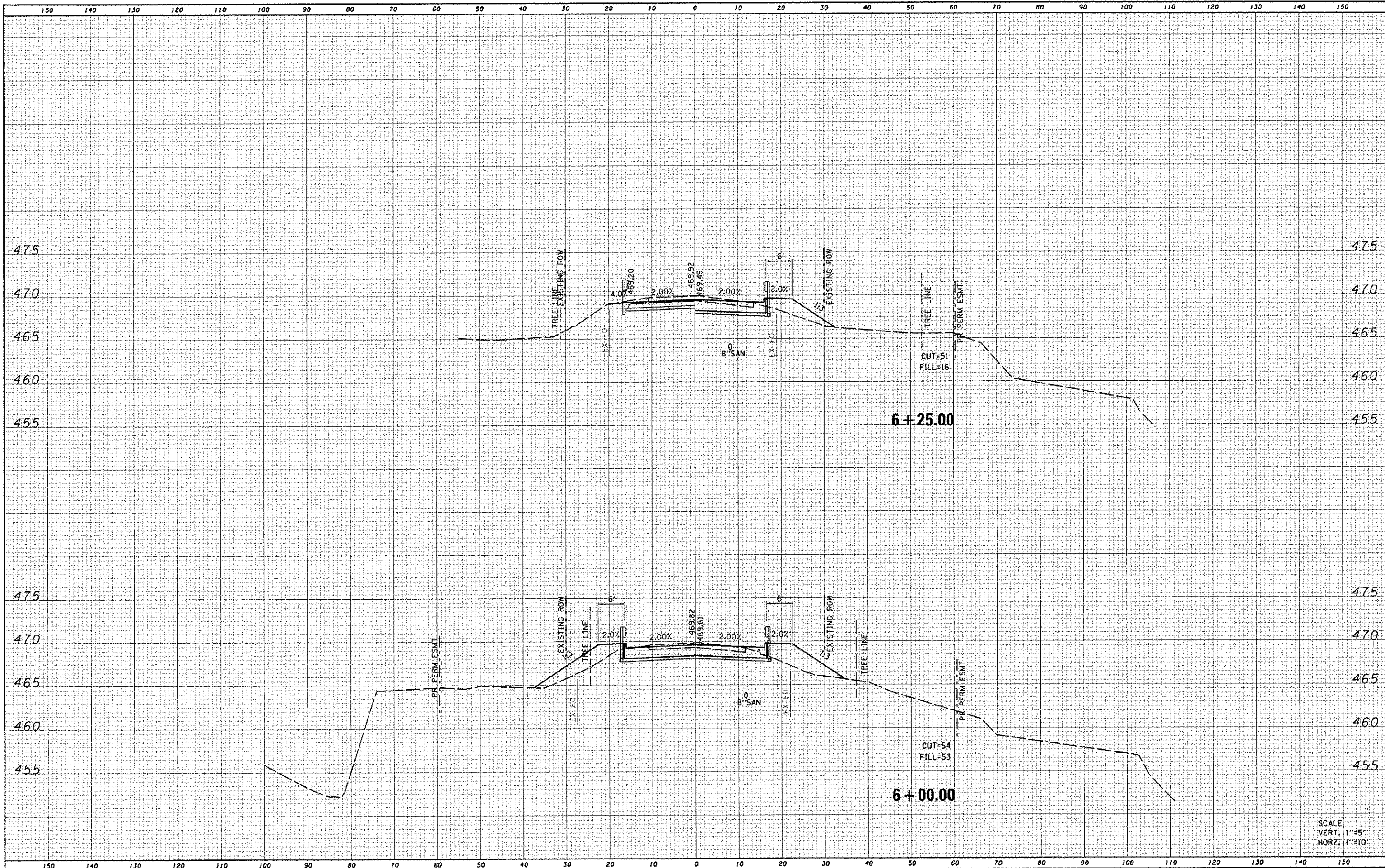


SCALE
VERT. 1"=5'
HORZ. 1"=10'

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	PLOT TIME < 8:39:43 AM	DRAWN -	REVISED -						9134	10-00091-02-BR	MADISON	36	33
	PLOT SCALE < 20.0000" / IN.	CHECKED -	REVISED -		CONTRACT NO. 97543								
	PLOT DATE < 10/18/2013	DATE -	REVISED -		SCALE:	SHEET 2	OF 5 SHEETS	STA. 4+50.00	TO STA. 4+75.00	ILLINOIS FED. AID PROJECT			

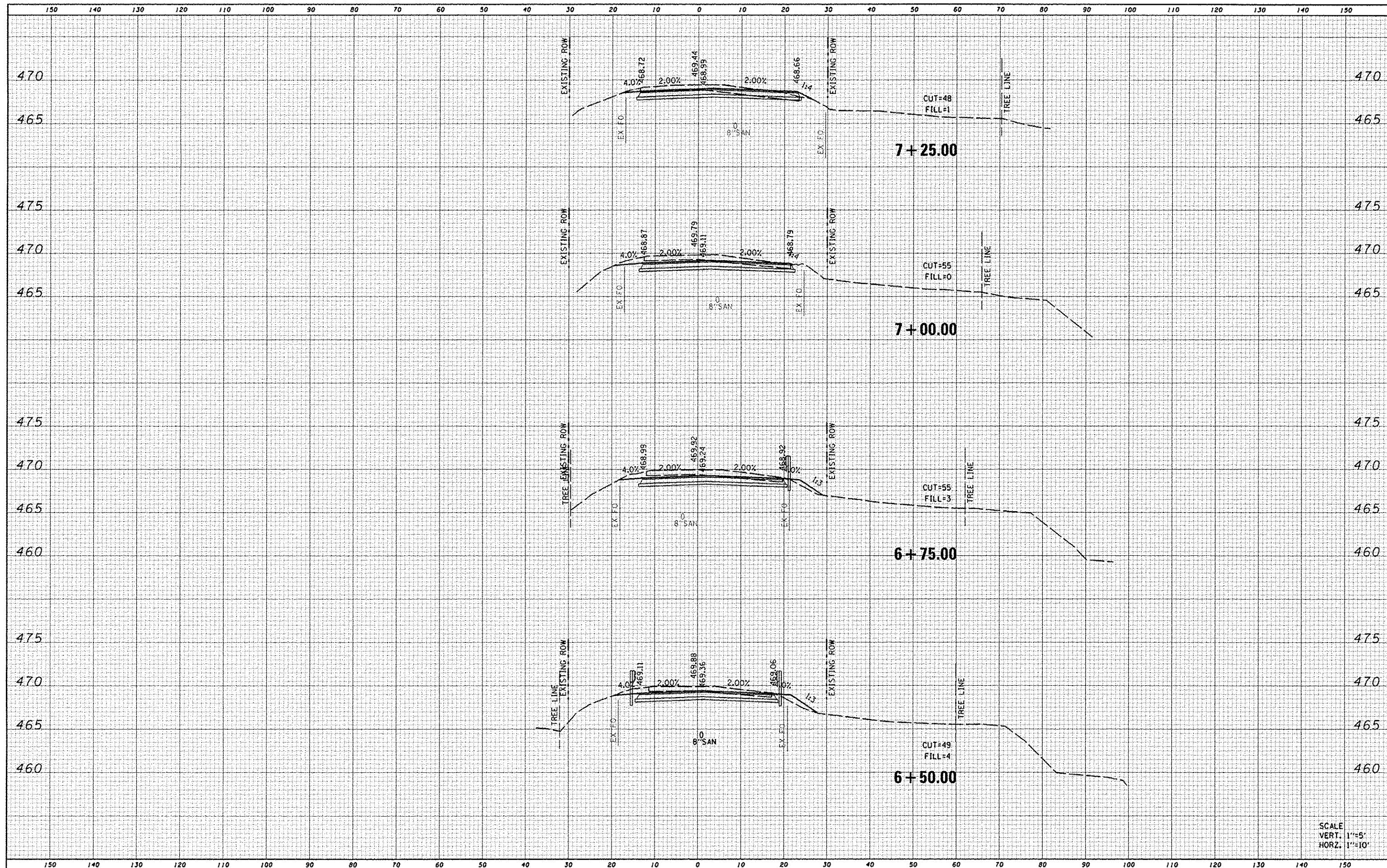
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DATE	



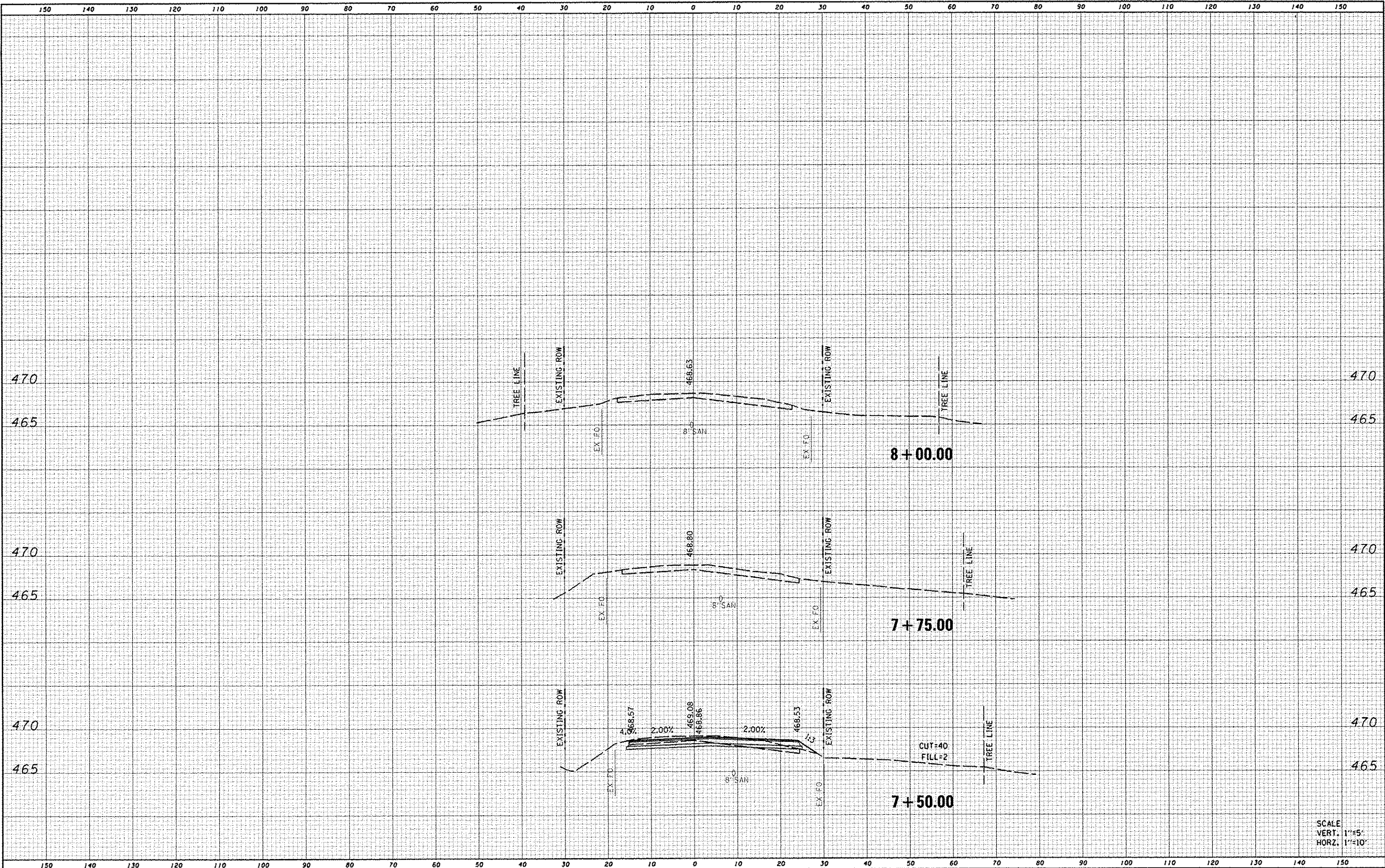
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ORIGINAL	SURVEYED	BY	DATE
SHEET	PLOTTED		
NOTE BOOK	TEMPERATURE		
	AREAS		
	AREAS CHECKED		
NOT			



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVISIONS	
NO.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVISIONS	
NO.	



SCALE
VERT. 1"=5'
HORZ. 1"=10'

FILE NAME : DB20000-01-0001.dgn	USER NAME : default	DESIGNED : -	REVISIONS : -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.U. RTE. 9134	SECTION 10-00091-02-BR	COUNTY MADISON	TOTAL SHEETS 36	SHEET NO. 36
PLOT TIME : 8/10/16 AM	PLOT SCALE : 20.0000 / IN.	DRAWN : -	REVISIONS : -	SCALE: SHEET 5 OF 5 SHEETS	STA. 7+50.00 TO STA. 8+00.00	CONTRACT NO. 97543				
PLOT DATE : 10/18/2013	DATE : -	CHECKED : -	REVISIONS : -	ILLINOIS FED. AID PROJECT						