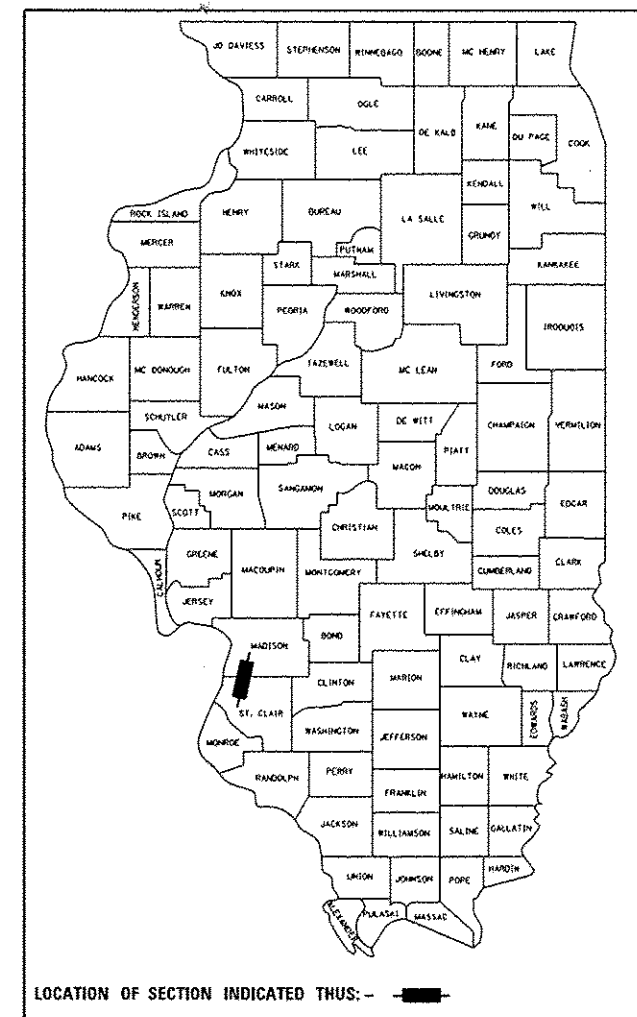


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	1
FEDERAL AID PROJECT		ILLINOIS	CONTRACT NO. 97595	

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES, UTILITIES, COMMITMENTS, & ALIGNMENT TIE POINTS
3-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8-9	SCHEDULES
10	PLAN & PROFILE SHEET
11	TRAFFIC CONTROL & DETOUR PLAN
12	EROSION CONTROL AND SIGNING SHEET
13	DRAINAGE PLAN & PROFILE SHEET
14	REMOVAL PLAN
15	INTERSECTION DETAILS
16-26	STRUCTURE PLANS
27-29	CONSTRUCTION DETAILS
30-32	CROSS SECTIONS

# PLANS FOR PROPOSED

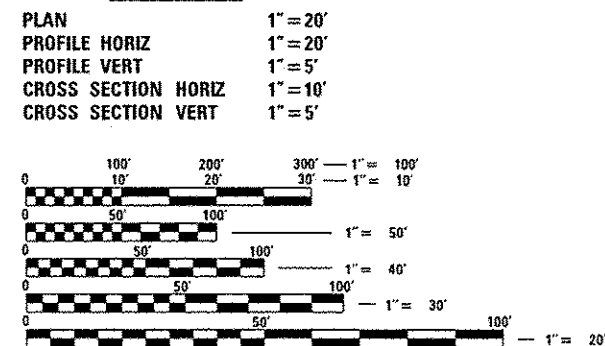
VILLAGE OF CASEYVILLE  
 NORTH LONG STREET  
 BRIDGE RECONSTRUCTION  
 ST. CLAIR COUNTY  
 SECTION: 12-00018-00-BR  
 PROJECT: M5011 (391)  
 JOB NO.: C-98-368-12



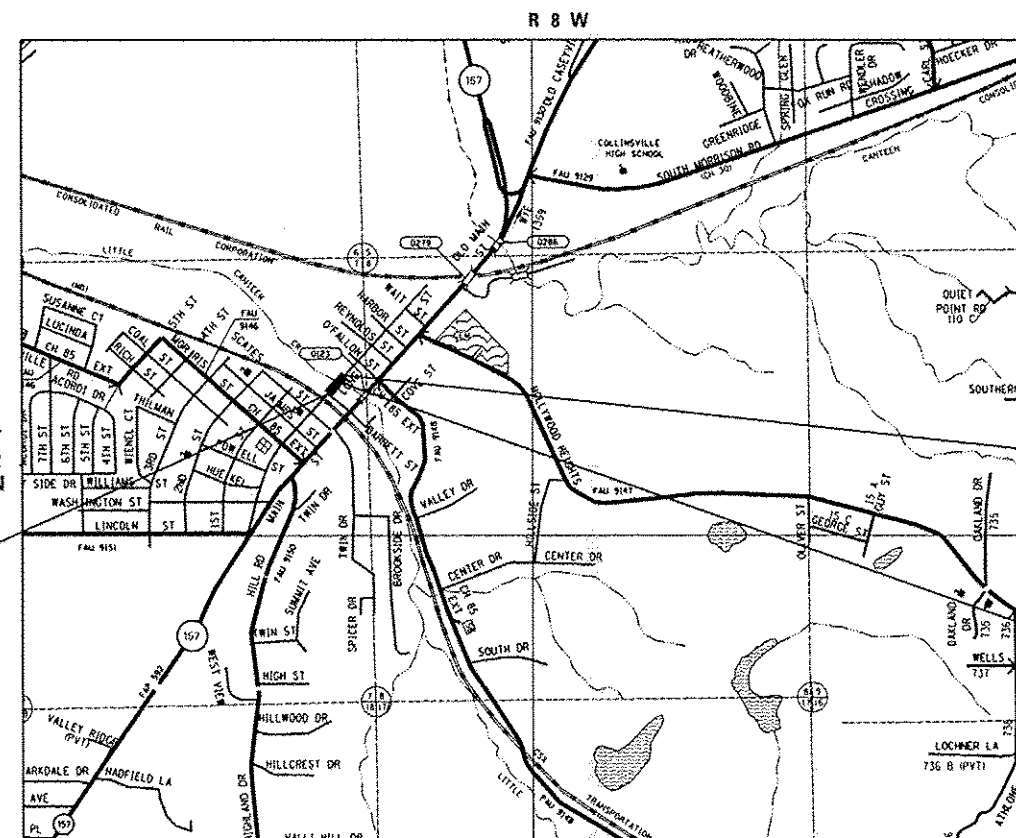
### HIGHWAY STANDARDS

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
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-02	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602401-03	MANHOLE TYPE A
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604086-03	FRAME AND GRATE TYPE 23
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
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)

### SCALE IN FEET

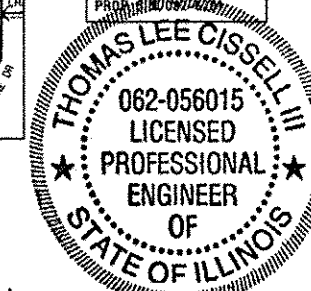


BEGIN SECTION  
STA. 8 + 29



END SECTION  
STA 11 + 45

PROJECT INCLUDES A  
 SINGLE SPAN PRECAST  
 PRESTRESSED CONCRETE  
 DECK BEAM BRIDGE  
 EXIST. S. N. 082-6200  
 PROJECT NO. 12-00018-00-BR



THOMAS LEE CISSSELL, P.E.  
 License Expires 11/30/2015  
 Date: 6/16/15

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

DESIGN DESIGNATION  
 ROADWAY CLASSIFICATION = LOCAL ROAD  
 DESIGN SPEED = 30 MPH  
 CURRENT ADT = 1,100  
 DESIGN YEAR ADT (2035) = 1,400

### LOCATION MAP

SCALE: 1" = 1,000'  
 GROSS LENGTH = 316.0' = (0.060 MILES)  
 NET LENGTH = 316.0' = (0.060 MILES)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	DATE
<i>Leonard Black</i> LEONARD BLACK	6-17-15 VILLAGE PRESIDENT, CASEYVILLE
PASSED	DATE
<i>Jeff D. O'Neil</i> DISTRICT 8 PROJECT IMPLEMENTATION ENGINEER	July 16 2015
RELEASING FOR BID BASED ON LIMITED REVIEW	DATE
<i>Jeff L. Keenan</i> DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER	July 16 2015

COLLINSVILLE 100 Lanter Court, Suite 1  
 Collinsville, IL 62234  
 tel 618.345.2200

BELLEVILLE 20 E. Main Street  
 Belleville, IL 62220  
 tel 618.416.4688

ST. LOUIS 720 Olive, Suite 1660  
 St. Louis, MO 63101  
 tel 314.568.8381

www.oatesassociates.com  
 ILLINOIS DESIGN FIRM LICENSE NO: 184.001115



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**GENERAL NOTES**

**UTILITIES**

1. ABOVE-GROUND UTILITY FACILITIES OR APPURTENANCES SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS TO PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 1.5 FEET, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT.
2. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. REFER TO THE "STATUS OF UTILITIES TO BE ADJUSTED" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

ATT (TELEPHONE & FIBER OPTIC)  
160 WEST DIVISION ST  
MARYVILLE, IL 62062  
(618) 346-6499

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

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

AMEREN IP (GAS & ELECTRIC)  
1050 WEST BOULEVARD  
BELLEVILLE, IL 62222  
(618) 236-4309

**GENERAL**

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION. AGGREGATE FOR TEMPORARY ACCESS WILL BE MEASURED FOR PAYMENT AS SPECIFIED IN THE CONTRACT. THE COST OF ALL OTHER MATERIALS REQUIRED AND ALL OTHER LABOR NECESSARY TO COMPLY WITH THIS PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
5. 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.
6. THE CONTRACTOR SHALL FERTILIZE AND SEED ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER AND SEEDING WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER AND SEEDING OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT. SEE THE SEEDING SCHEDULE FOR ESTIMATED PLAN QUANTITIES.
7. 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.
8. 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](http://WWW.AGR.STATE.IL.US/EAB).

**EARTHWORK**

9. IF EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE AND AGGREGATE BASE ARE ENCOUNTERED DURING REMOVALS, THIS WORK SHALL BE PAID FOR AS EARTH EXCAVATION. 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."

**PAVING**

10. THE CONTRACTOR SHALL NOTE THE LOCATION OF ALL MANHOLE AND VALVE COVER FRAMES AND LIDS LOCATED WITHIN RESURFACING LIMITS. APPROPRIATE CARE SHALL BE TAKEN TO PROTECT THESE ITEMS DURING MILLING OPERATIONS.
11. AT VARIOUS LOCATIONS, IT MAY BE NECESSARY TO TRANSITION PROPOSED COMBINATION CONCRETE CURB AND CUTTER TO MEET EXISTING CURBS OR GUTTERS. THE MINIMUM LENGTH OF TRANSITIONAL COMBINATION CURB AND CUTTER SHALL BE 10 FEET, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**DRAINAGE**


12. STORM SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE. STORM SEWER WILL BE MEASURED AND PAID FOR AS SPECIFIED IN ARTICLES 550.09 AND 550.10 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." FLARED END SECTIONS ARE LOCATED BY STATION, OFFSET AND FLOWLINE ELEVATION AT THE FLARED END OF THE FLARED END SECTION.
13. THE OFFSETS TO ALL INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF THE OPENING AT THE BASE OF THE FRAME AND GRATE OR LID. CONCENTRIC DRAINAGE STRUCTURES WERE ASSUMED WHEN CALCULATING THESE DIMENSIONS.
14. THE CONTRACTOR SHALL INCLUDE THE COST OF MAKING CONNECTIONS TO EXISTING DRAINAGE STRUCTURES IN THE CONTRACT UNIT PRICE FOR THE STORM SEWER ITEMS INVOLVED.
15. ALL DRAINAGE STRUCTURES CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT, SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS OR FOREIGN MATTER AT THE END OF EACH WORKING DAY AND AT THE TIME OF FINAL INSPECTION. 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 DRAINAGE STRUCTURE ITEMS INCLUDED IN THE CONTRACT.

**APPROXIMATE QUANTITIES, SYMBOLS & ABBREVIATIONS**

16. THE FOLLOWING ITEMS AND APPROXIMATE QUANTITIES ARE INCLUDED IN THE "SUMMARY OF QUANTITIES" IN ORDER TO ESTABLISH A UNIT COST FOR WORK WHICH MAY BE REQUIRED TO CONSTRUCT THIS SECTION. THE ACTUAL QUANTITY OF EACH ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

AGGREGATE FOR TEMPORARY ACCESS 50 TON  
PIPE DRAINS, 4" 25 FOOT

17. 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
  - ELEV ELEVATION
  - 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
  - TBA TO BE ADJUSTED
  - TBRL TO BE RELOCATED
  - TYP TYPICAL
  - W WIDTH
-  FLARED END SECTION

**COMMITMENTS**

NONE

**ALIGNMENT TIE POINTS**

DESCRIPTION:	OFFSET	NORTHING:	EASTING:
P.O.T. 8+00.00	CL	718,093.93	2,337,152.12
P.O.T. 12+00.00	CL	718,390.11	2,337,420.97

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**OATES ASSOCIATES**  
Engineering • Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184,061115

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PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -
PLOT DATE = 6/15/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, UTILITIES, COMMITMENTS, & ALIGNMENT TIE POINTS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	2
CONTRACT NO. 97595			[ILLINOIS] FED. AID PROJECT	

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		20100500	TREE REMOVAL, ACRES	ACRE	0.05
		20200100	EARTH EXCAVATION	CU YD	230
		• 20800150	TRENCH BACKFILL	CU YD	161
		• 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	429
		25100630	EROSION CONTROL BLANKET	SO YD	429
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	18
		28000400	PERIMETER EROSION BARRIER	FOOT	160
		28000500	INLET AND PIPE PROTECTION	EACH	9
		28100107	STONE RIPRAP, CLASS A4	SO YD	449
		28200200	FILTER FABRIC	SO YD	449
		31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SO YD	893
		40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SO YD	19
		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50
		40701821	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7"	SO YD	745

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	55
		42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	50
		42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	1,720
		• 42400800	DETECTABLE WARNINGS	SO FT	44
		44000100	PAVEMENT REMOVAL	SO YD	918
		• 44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	73
		• 44000600	SIDEWALK REMOVAL	SO FT	1,335
		• 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
		50200100	STRUCTURE EXCAVATION	CU YD	164
		50300225	CONCRETE STRUCTURES	CU YD	44.8
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	37.5
		50300260	BRIDGE DECK GROOVING	SO YD	173
		50300280	CONCRETE ENCASEMENT	CU YD	4.8
		50300300	PROTECTIVE COAT	SO YD	324

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
 ▲ SI - SPECIALTY ITEM

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	3
CONTRACT NO. 97595			ILLINOIS FED. AID PROJECT	

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 DATE -  
 PLOT SCALE: 1/8" = 1'-0"  
 PLOT DATE: 6/15/2015

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SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SO FT	2,520
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	14,060
		50900105	ALUMINUM RAILING, TYPE L	FOOT	113
		51201600	FURNISHING STEEL PILES HP12X53	FOOT	1,131
		51202305	DRIVING PILES	FOOT	1,131
		51203600	TEST PILE STEEL HP12X53	EACH	1
		51500100	NAME PLATES	EACH	1
		54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1
		54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1
		• 550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	45
		• 550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	16
		• 550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	87
		• 550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	31
		• 550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	55

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		• 550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	61
		• 60100905	PIPE DRAINS 4"	FOOT	25
		60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
		60219530	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	3
		60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
		60222230	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	2
		60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	1
		60240327	INLETS, TYPE B, TYPE 23 FRAME AND GRATE	EACH	1
		60500060	REMOVING INLETS	EACH	3
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	515
Δ		63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2
Δ		63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	4
Δ		63200310	GUARDRAIL REMOVAL	FOOT	200
		67100100	MOBILIZATION	L SUM	1

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
Δ SI - SPECIALTY ITEM

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USER NAME: m.aisa.groser  
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PLOT SCALE: 1/8" = 1'-0"  
PLOT DATE: 6/15/2015

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NTS    SHEET 2 OF 3 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	4
CONTRACT NO. 97595			ILLINOIS FED. AID PROJECT	

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		72000100	SIGN PANEL - TYPE 1	SQ FT	17.6
		72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	47
Δ		78200410	GUARDRAIL MARKERS, TYPE A	EACH	4
Δ		78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
	*	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	31
		X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	280
	*	X5510100	STORM SEWER REMOVAL	FOOT	375
	*	X6024502	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	EACH	2
Δ	*	X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	26
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
	*	XX008115	SEEDING, CLASS 1A SPECIAL	SQ YD	429

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY


NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
Δ SI - SPECIALTY ITEM

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NTS	SHEET 3 OF 3 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	6
		CONTRACT NO. 97595		
ILLINOIS FED. AID PROJECT				


**DAMES & MOORE**  
Engineering & Architecture  
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PLOT DATE = 0/15/2015

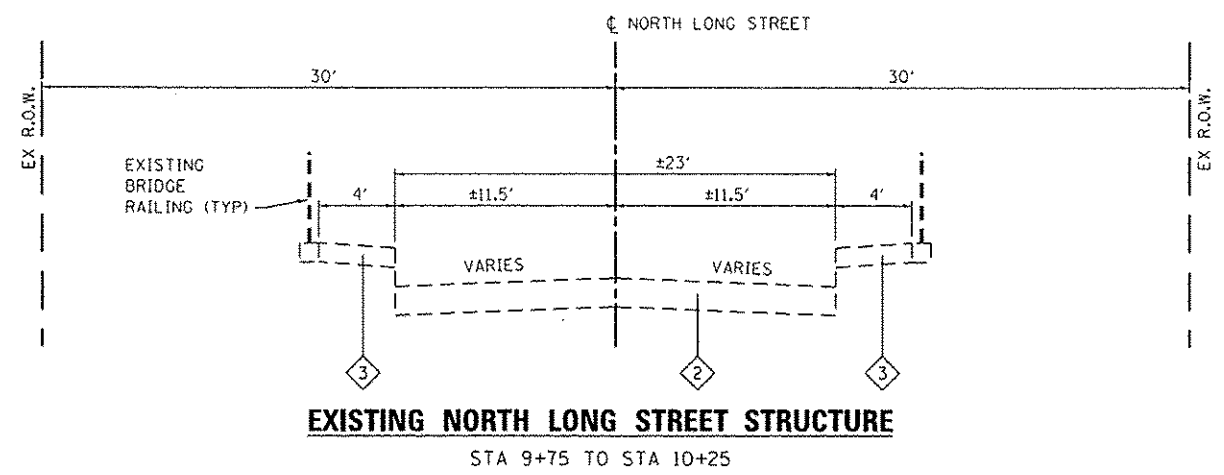
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	DATE -	REVISED -

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STRUCTURAL DESIGN TRAFFIC:	YEAR:	2025	
PV = 1,100	SU = 88	MU = 62	
ROAD/STREET CLASSIFICATION:	CLASS:	III	
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:			
P = 88%	S = 7%	M = 5%	
TRAFFIC FACTOR:	ACTUAL =	0.34	
	MIN =	N/A	
PG GRADE:	BINDER:	64-22	SURFACE: 64-22
STRUCTURAL SUPPORT RATING:			
	SSR =	POOR	

**TYPICAL SECTION LEGEND**

- ① EXISTING OIL AND CHIP SURFACE ON 4" ASPHALT BASE
- ② EXISTING BRIDGE STRUCTURE
- ③ EXISTING SIDEWALK
- ④ PROPOSED HOT-MIX ASPHALT PAVEMENT, FULL DEPTH 7"  
- PROPOSED SURFACE COURSE: 2"  
- PROPOSED BINDER COURSE: 5"
- ⑤ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 4"
- ⑥ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑦ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- ⑧ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

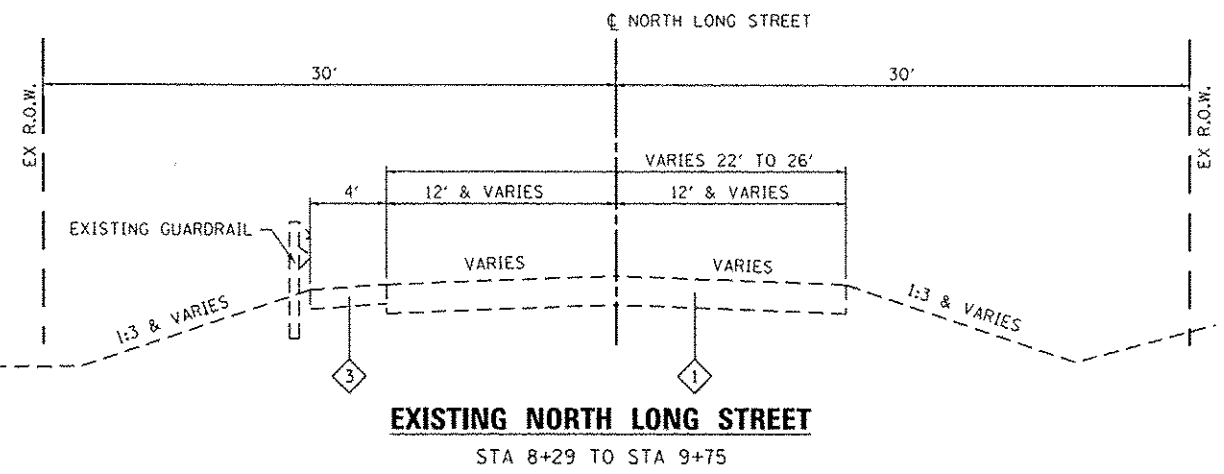


**EXISTING NORTH LONG STREET STRUCTURE**

STA 9+75 TO STA 10+25

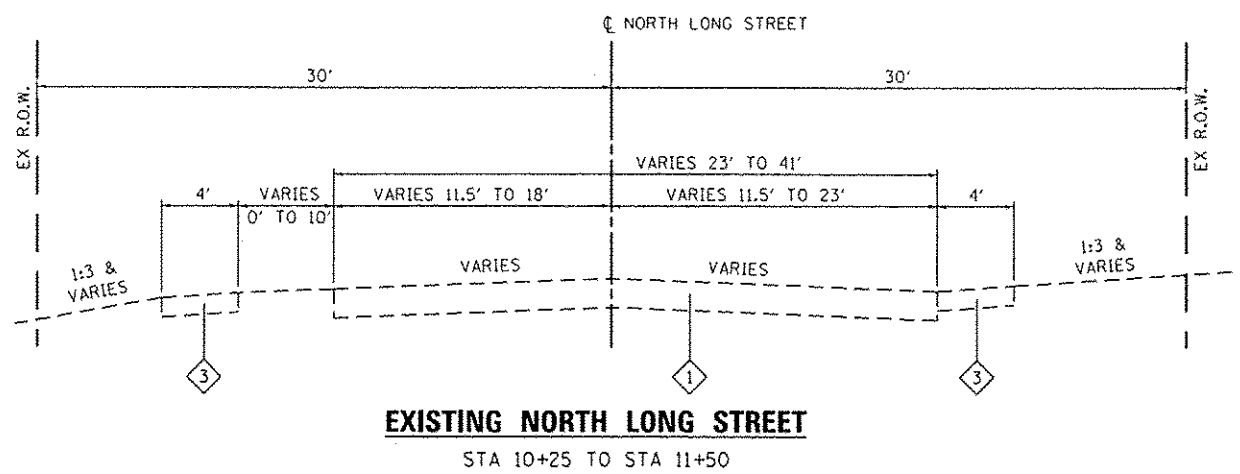
**MIXTURES TABLE**

MIXTURE USE	SURFACE	BINDER
THICKNESS	2"	5"
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE BDE SPECIAL PROVISIONS	SEE BDE SPECIAL PROVISIONS
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 "C"	MIXTURE "B"



**EXISTING NORTH LONG STREET**

STA 8+29 TO STA 9+75



**EXISTING NORTH LONG STREET**

STA 10+25 TO STA 11+50

FILE NAME: H:\P12815\micr\station\000\_Sheets\0812815-111-12815.dwg



USER NAME	= moisie.grosor
PLOT SCALE	= 40.0000' / 1" =
PLOT DATE	= 6/15/2015

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	6
CONTRACT NO. 97595				
ILLINOIS FED. AID PROJECT				

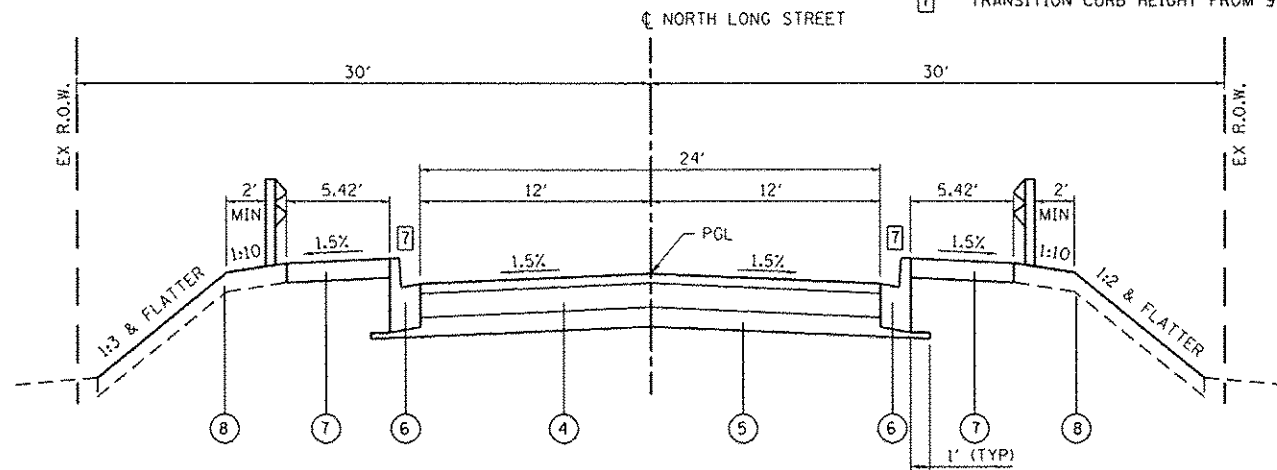
**TYPICAL SECTION NOTES**

- 1 STA. 9+25 TO STA. 9+35  
SIDEWALK WIDTH VARIES FROM 6' TO 5.42'
- 2 STA. 11+00 TO STA. 11+15  
SIDEWALK TRANSITIONS FROM 5.42' WIDE ADJACENT TO CURB TO 4' WIDE WITH 3.5' GREENSPACE.
- 3 STA. 11+00 TO STA. 11+15  
GREENSPACE WIDTH VARIES FROM 9.75' TO 2.75'.
- 4 DEPRESSED CURB FROM STA. 11+15 TO STA. 11+45
- 5 STA. 11+00 TO STA. 11+15  
PARKING LANE VARIES FROM 0' TO 7' BOTH SIDES.
- 6 STA. 11+30 TO STA. 11+40  
TRAVEL LANE CROSS SLOPE VARIES FROM 1.5% TO 4.0%
- 7 TRANSITION CURB HEIGHT FROM 9" AT THE BACK OF ABUTMENT TO STANDARD 6" HEIGHT WITHIN 10' LENGTH

**TYPICAL SECTION LEGEND**

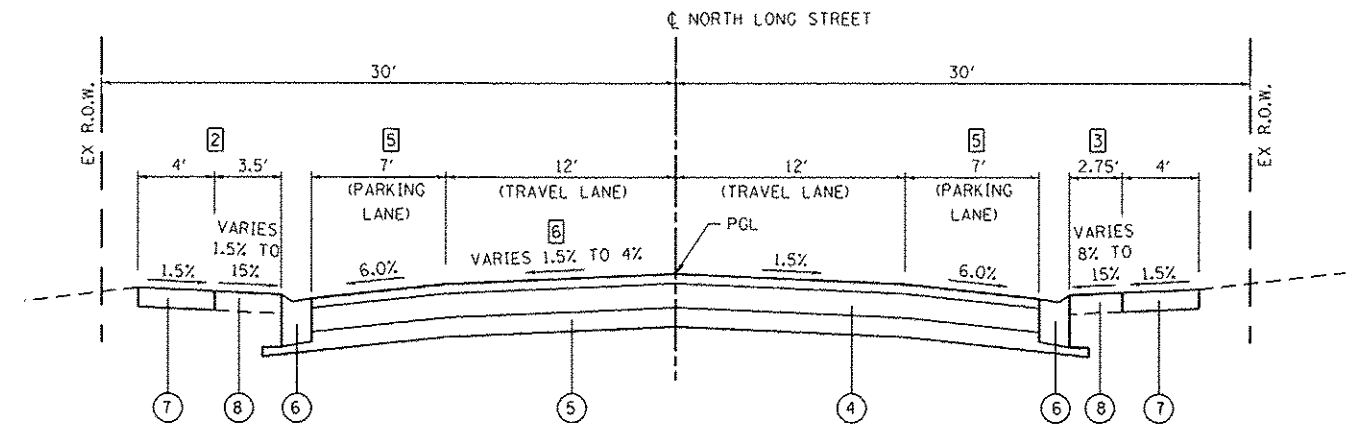
- 1 EXISTING OIL AND CHIP SURFACE ON 4" ASPHALT BASE
- 2 EXISTING BRIDGE STRUCTURE
- 3 EXISTING SIDEWALK
- 4 PROPOSED HOT-MIX ASPHALT PAVEMENT, FULL DEPTH 7"  
- PROPOSED SURFACE COURSE: 2"  
- PROPOSED BINDER COURSE: 5"
- 5 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 4"
- 6 PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 4 7
- 7 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- 8 PROPOSED TOPSOIL FURNISH AND PLACE, 4"

STRUCTURE OMISSION  
STA. 9+67 TO STA. 10+32



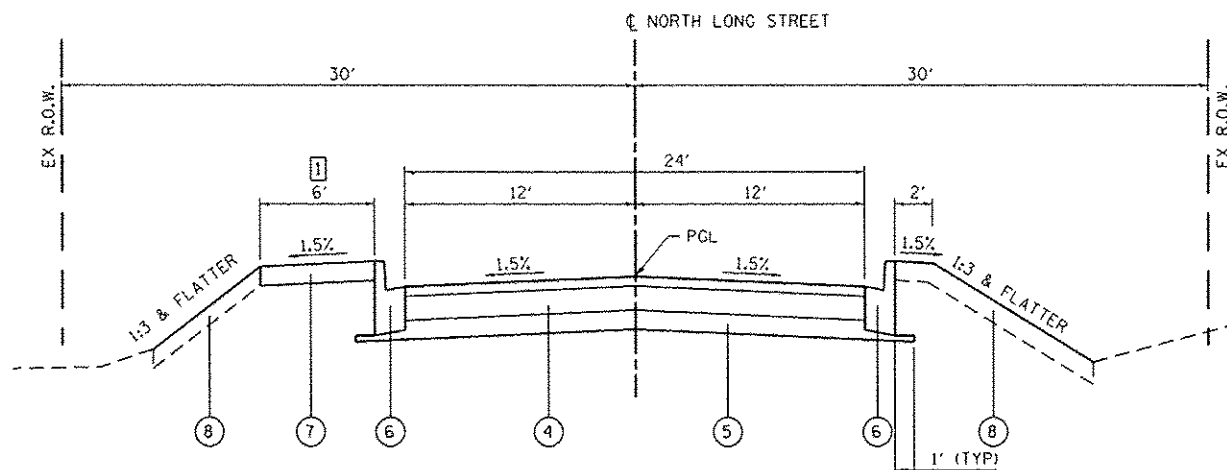
**PROPOSED NORTH LONG STREET**

STA 9+40 TO STA 9+67  
STA 10+32 TO STA 10+75



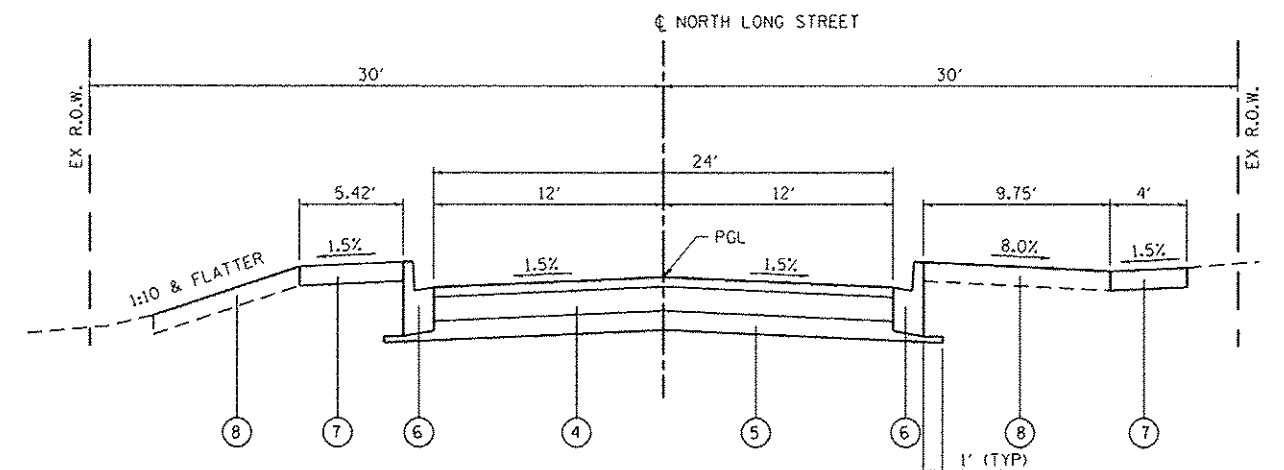
**PROPOSED NORTH LONG STREET**

STA 11+00 TO STA 11+45



**PROPOSED NORTH LONG STREET**

STA 8+29 TO STA 9+40



**PROPOSED NORTH LONG STREET**

STA 10+75 TO STA 11+00

SEE CROSS SECTIONS FOR VARIABLE DIMENSIONS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	7
CONTRACT NO. 97595				
ILLINOIS FED. AID PROJECT				



**CURB & GUTTER**

STATION	STATION	OFFSET	COMB CC&G TB6.12 (FOOT)
8+25	9+70	RT	150
8+35	9+65	LT	135
10+30	11+45	LT	115
10+35	11+45	RT	115
<b>TOTAL</b>			<b>515</b>

**EARTHWORK**

STATION	STATION	OFFSET	EARTH EXCAVATION (NOTE 4) (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)
8+29	9+67	LT/RT	80	65	55	10
9+67	10+33	(NOTE 5)	80	65	50	15
10+33	11+45	LT/RT	70	55	30	25
<b>TOTAL</b>			<b>230</b>	<b>185</b>	<b>135</b>	<b>50</b>

**EARTHWORK NOTES:**

- ESTIMATED SHRINKAGE FACTOR = 20%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.
- QUANTITY ACCOUNTS FOR TOPSOIL PLACEMENT. SEE SEEDING SCHEDULE.
- EARTH EXC QUANTITY IS LOCATED BETWEEN THE EX AND PR ABUTMENTS. THE VOLUME OF EMBANKMENT IS LOCATED IN FRONT OF THE EX ABUTMENT. THE REMAINING QUANTITY IS ACCOUNTED FOR IN STRUCTURE EXCAVATION PAY ITEM.

**ENTRANCE /SIDE ROAD**

STATION (NOTE 1)	OFFSET	ENTRANCE TYPE	ENTRANCE WIDTH "W" (NOTE 1) (FOOT)	ENTRANCE DEPTH "D" (FOOT)	EXISTING SURFACE TYPE	AGG SURF CSE A 6 (SQ YD)	PCC DRIVEWAY PAVT 6 (NOTE 2) (SQ YD)	PCC DRIVEWAY PAVT 8 (NOTE 2) (SQ YD)	DRIVEWAY PAVEMENT REM (SQ YD)
9+40	RT	PE	16	11	AGG	19	13		
10+65	LT	SIDE ROAD	16	17	ASPH			50	51
10+77	RT	PE	20	12	AGG		42		22
<b>TOTAL</b>						<b>19</b>	<b>55</b>	<b>50</b>	<b>73</b>

**ENTRANCE NOTES:**

- PRIOR TO CONSTRUCTION, THE ENGINEER WILL CONTACT EACH PROPERTY OWNER AND VERIFY THE LOCATION AND WIDTH OF ALL ENTRANCES. THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATIONS AND WIDTHS WITH THE ENGINEER PRIOR TO CONSTRUCTION. SEE CONSTRUCTION DETAILS SHEET FOR ENTRANCE DETAILS.
- DEPRESSED CURB AND GUTTER THROUGH ENTRANCES SHALL BE MEASURED FOR PAYMENT AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12.

**PAVEMENT**

STATION	STATION	OFFSET	SUB GRAN MAT A 4 (SQ YD)	HMA PAVT FD 7 (SQ YD)	PAVEMENT REM (SQ YD)
8+29	9+67	LT/RT	470	387	429
10+32	11+45	LT/RT	423	358	489
<b>TOTAL</b>			<b>893</b>	<b>745</b>	<b>918</b>

**SIDEWALK**

STATION	STATION	OFFSET	PC CONC SIDEWALK 4 (SQ FT)	DETECTABLE WARNINGS (SQ FT)	SIDEWALK REM (SQ FT)
8+30	9+70	RT	170	8	100
8+40	9+65	LT	735	12	465
10+30	11+40	LT	440	24	390
10+35	11+40	RT	375		380
<b>TOTAL</b>			<b>1,720</b>	<b>44</b>	<b>1,335</b>

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES**

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	8
CONTRACT NO. 97595			ILLINOIS FED. AID PROJECT	



**GUARDRAIL**

STATION	STATION	OFFSET	TRAF BAR TERM T2 (EACH)	TRAF BAR TERM T5 (EACH)	GUARDRAIL MKR TYPE A (NOTE 1) (EACH)	TERMINAL MARKER DA (EACH)	SPBGR (SHORT RADIUS) (FOOT)
9+38	9+64	LT	1	1	1	1	
9+49	9+71	RT		1	1	1	13
10+29	10+51	LT		1	1	1	13
10+36	10+62	RT	1	1	1	1	
<b>TOTAL</b>			<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>26</b>

**GUARDRAIL NOTES:**

- GUARDRAIL MARKERS SHALL BE BI-DIRECTIONAL, CRYSTAL IN COLOR, AND PLACED AT THE MIDPOINT OF THE GUARDRAIL SPAN.

**EROSION CONTROL**

STATION	STATION	OFFSET	PERIMETER EROS BAR (FOOT)	INLET & PIPE PROTECTION (EACH)
8+55	9+55	LT	100	
9+25	11+40	LT		5
9+25	11+40	RT		4
9+50	9+65	LT	15	
9+65	9+70	RT	10	
10+30	10+40	LT	15	
10+35	10+50	RT	20	
<b>TOTAL</b>			<b>160</b>	<b>9</b>

**SIGN AND POST**

STATION	OFFSET	MUTCD TYPE	DESCRIPTION	SIZE (FT X FT)	SIGN PANEL T1 (NOTE 1) (SQ FT)	TELES STL SIN SUP (FOOT)
8+50	16' RT	W15-1	PLAYGROUND	2.5 x 2.5	6.3	16
9+45	21' LT	W15-1	PLAYGROUND	2.5 x 2.5	6.3	16
9+55	21' RT	R2-1	30 MPH	2 x 2.5	5.0	15
<b>TOTAL</b>					<b>17.6</b>	<b>47</b>

**SIGN AND POST NOTES:**

- EXISTING SIGNS THAT ARE REMOVED SHALL BE THE PROPERTY OF THE VILLAGE OF CASEYVILLE. THIS WORK SHALL BE INCLUDED IN THE COST OF PROPOSED SIGNS.

**SEEDING**

STATION	STATION	OFFSET	SEEDING CL 1A SPL (SQ YD)	NITROGEN FERT NUTR (NOTE 1) (POUND)	PHOSPHORUS FERT NUTR (NOTE 1) (POUND)	POTASSIUM FERT NUTR (NOTE 1) (POUND)	TOPSOIL F & P 4 (SQ YD)	EROSION CONTR BLANKET (SQ YD)	TEMP EROS CONTR SEED (NOTE 2) (POUND)
8+25	9+70	RT	136	3	3	3	136	136	6
8+35	9+65	LT	132	2	2	2	132	132	6
10+25	11+45	LT	93	2	2	2	93	93	4
10+35	11+45	RT	68	1	1	1	68	68	2
<b>TOTAL</b>			<b>429</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>429</b>	<b>429</b>	<b>18</b>

**SEEDING NOTES:**

- FERTILIZER QUANTITIES ARE SHOWN FOR INFORMATION ONLY. THE COST FOR FERTILIZER NUTRIENTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SEEDING, CLASS 1A SPL.
- THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES TWO SEPARATE 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. TEMPORARY MULCH SHALL BE INCLUDED AT NO ADDITIONAL COST.

**TREE REMOVAL**

STATION	STATION	OFFSET	TREE REMOV ACRES (ACRE)
9+65	9+95	RT	0.02
10+10	10+55	RT	0.03
<b>TOTAL</b>			<b>0.05</b>

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

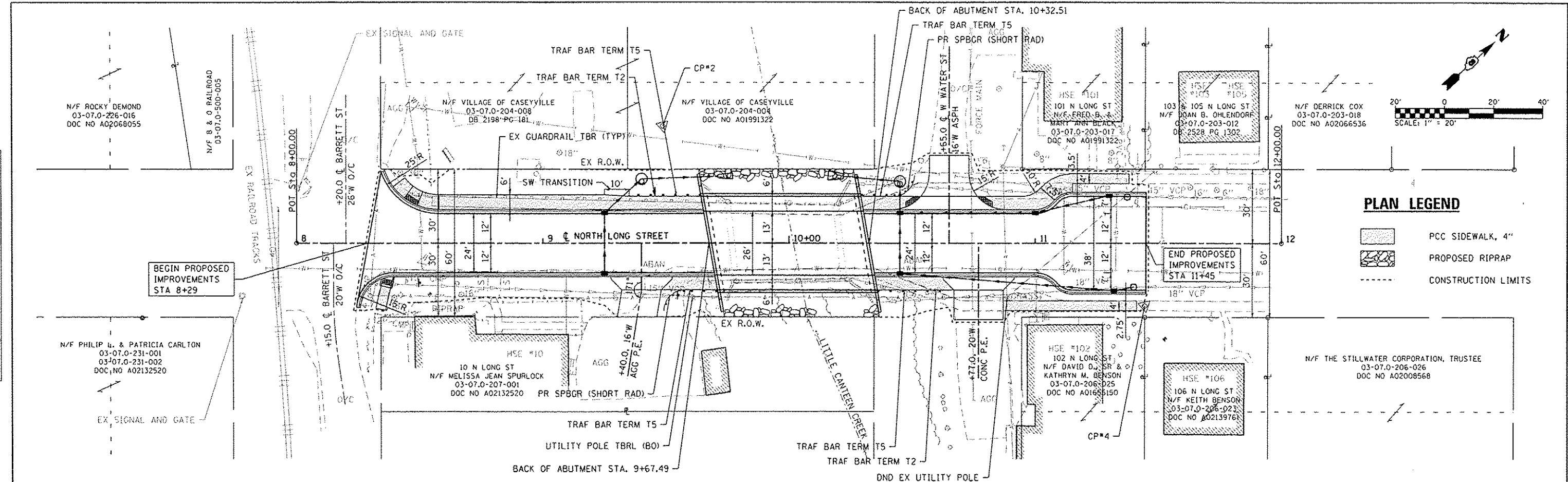
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CONTRACT NO. 97595			ILLINOIS FED. AID PROJECT	

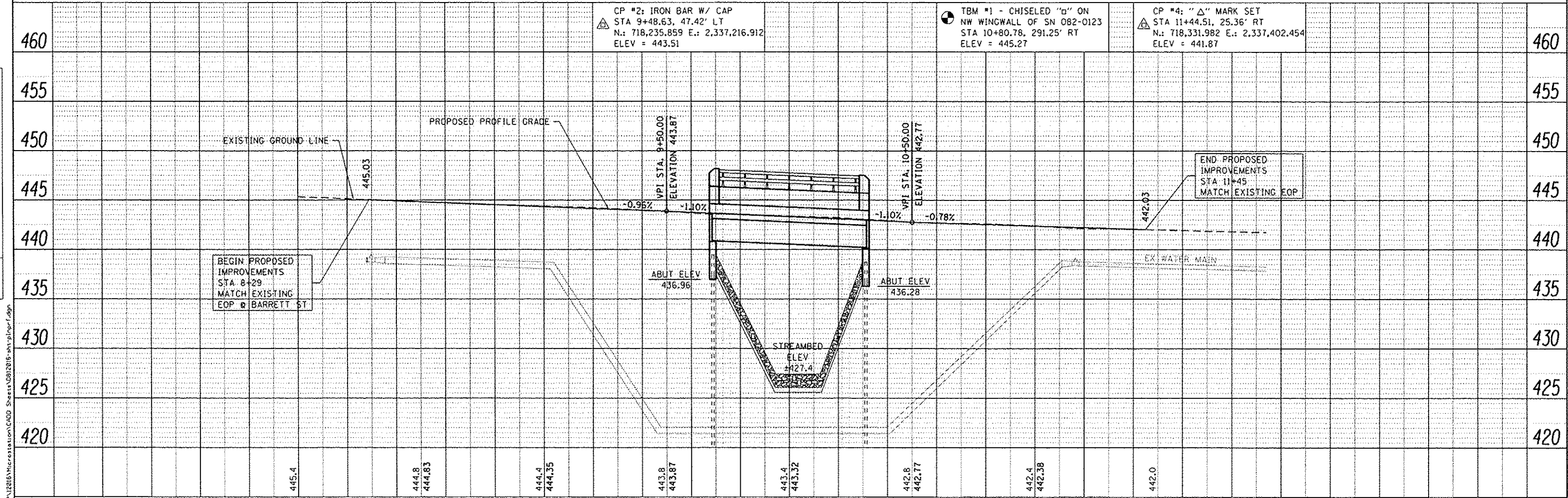
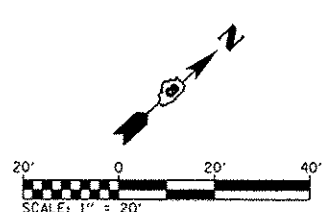
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**PLAN LEGEND**















- PCC SIDEWALK, 4"
- PROPOSED RIPRAP
- CONSTRUCTION LIMITS

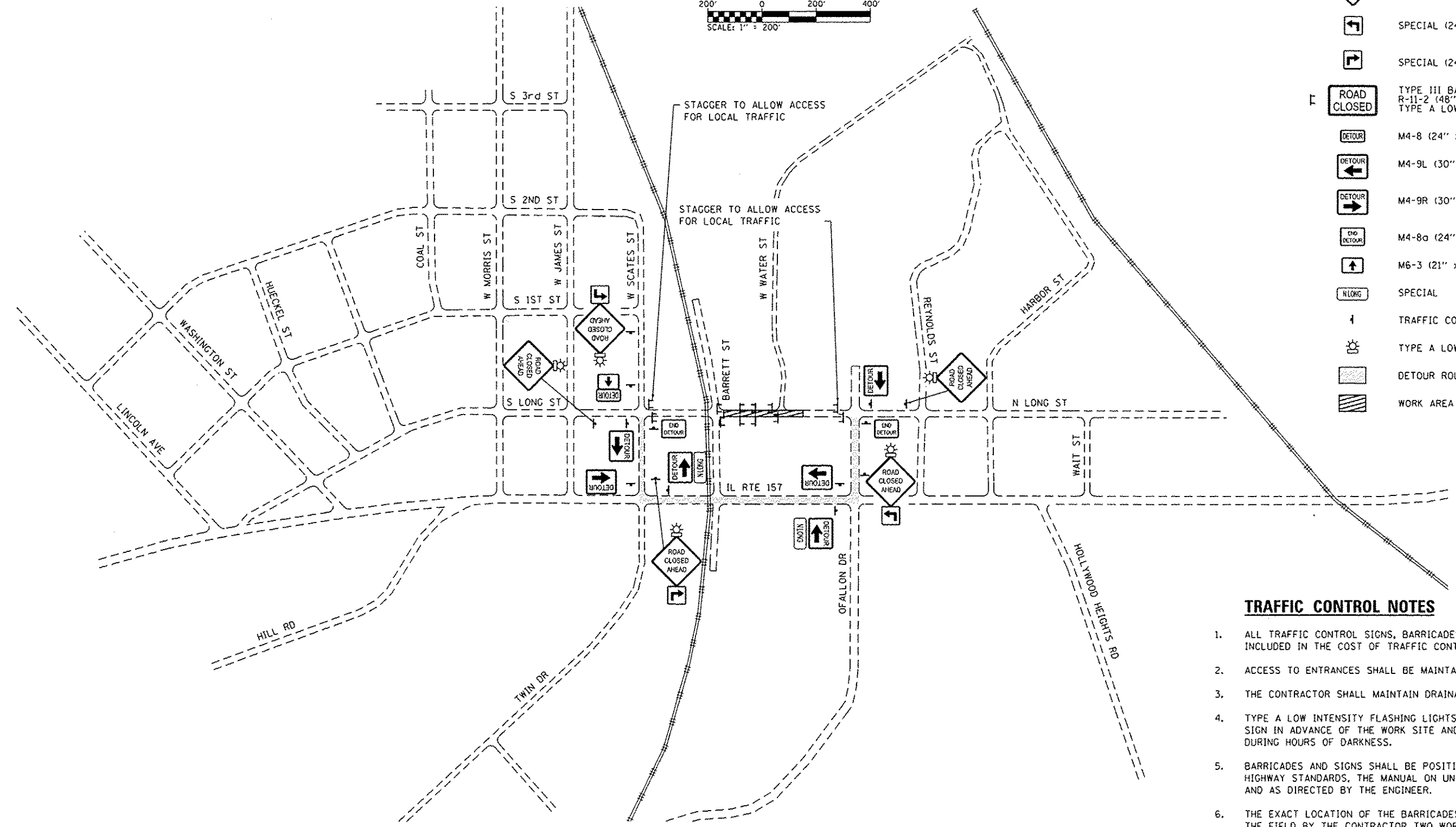
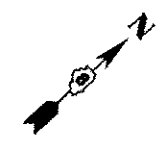
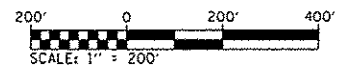


<p><b>OATES ASSOCIATES</b> Engineering + Architecture</p> <p>ILLINOIS DESIGN FIRM LICENSE NO: 184,00115</p>	USER NAME = moisa.grosar	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>PLAN &amp; PROFILE SHEET</b></p>	<table border="1"> <tr><td>F.A. RTE.</td><td>SECTION</td><td>COUNTY</td><td>TOTAL SHEETS</td><td>SHEET NO.</td></tr> <tr><td></td><td>12-00018-00-BR</td><td>ST. CLAIR</td><td>32</td><td>10</td></tr> <tr><td colspan="5">CONTRACT NO. 97595</td></tr> </table>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		12-00018-00-BR	ST. CLAIR	32	10	CONTRACT NO. 97595				
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	CONTRACT NO. 97595																				
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**TRAFFIC CONTROL PLAN LEGEND**

-  W20-3 (48" x 48") (FLUORESCENT ORANGE)
-  SPECIAL (24" x 24") (FLUORESCENT ORANGE)
-  SPECIAL (24" x 24") (FLUORESCENT ORANGE)
-  TYPE III BARRICADES WITH R-11-2 (48" x 30") (WHITE) AND TYPE A LOW INTENSITY FLASHING LIGHTS
-  M4-8 (24" x 12") (ORANGE)
-  M4-9L (30" x 24") (ORANGE)
-  M4-9R (30" x 24") (ORANGE)
-  M4-8a (24" x 18") (ORANGE)
-  M6-3 (21" x 15") (WHITE)
-  SPECIAL
-  TRAFFIC CONTROL SIGN LOCATION
-  TYPE A LOW INTENSITY FLASHING LIGHT
-  DETOUR ROUTE
-  WORK AREA



**TRAFFIC CONTROL NOTES**

1. ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND MAINTENANCE TO BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
2. ACCESS TO ENTRANCES SHALL BE MAINTAINED AT ALL TIMES.
3. THE CONTRACTOR SHALL MAINTAIN DRAINAGE THROUGHOUT CONSTRUCTION.
4. TYPE A LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON THE FIRST SIGN IN ADVANCE OF THE WORK SITE AND ON ALL TYPE III BARRICADES DURING HOURS OF DARKNESS.
5. BARRICADES AND SIGNS SHALL BE POSITIONED AS SHOWN, ACCORDING TO HIGHWAY STANDARDS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND AS DIRECTED BY THE ENGINEER.
6. THE EXACT LOCATION OF THE BARRICADES AND SIGNS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR TWO WORKING DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS FOR APPROVAL BY THE ENGINEER.
7. ALL SERVICES AND PROPERTY OWNERS FRONTING THE PROJECT SHALL BE NOTIFIED OF THE WORK AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OPERATIONS.
8. SET UP TRAFFIC CONTROL FOR THIS WORK STAGE, WHICH IS IN GENERAL CONFORMANCE WITH BLR 22.

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**DATES ASSOCIATES**  
Engineering & Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

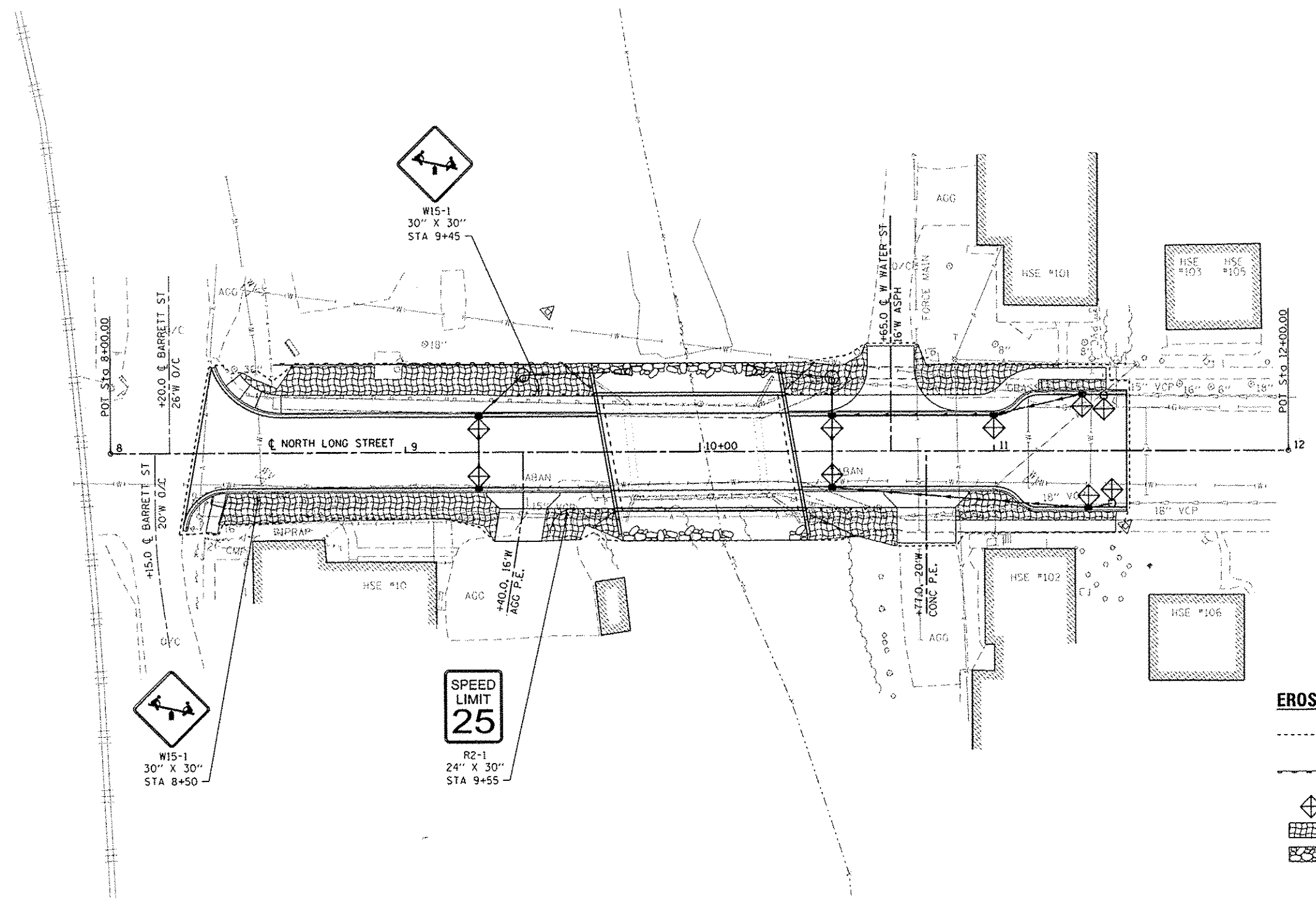
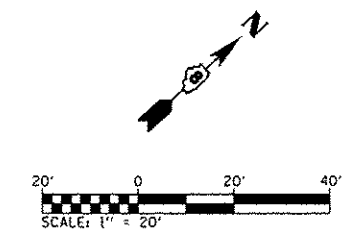
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & DETOUR PLAN**

SCALE: 1" = 200' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST CLAIR	32	11
CONTRACT NO. 97595				
ILLINOIS FED. AID PROJECT				



- EROSION CONTROL LEGEND**
- LIMITS OF CONSTRUCTION
  - PERIMETER EROSION BARRIER  
SILT FILTER FENCE OR OTHER  
AS APPROVED BY THE ENGINEER
  - INLET AND PIPE PROTECTION
  - EROSION CONTROL BLANKET
  - STONE RIPRAP

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

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**OATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 104.001115

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

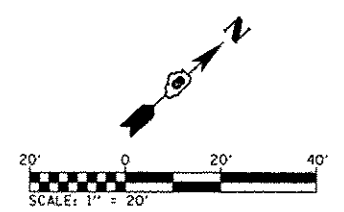
**EROSION CONTROL & SIGNING SHEET**

SCALE: 1" = 20'    SHEET 1 OF 1 SHEETS    STA. 8+00 TO STA. 12+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 97595
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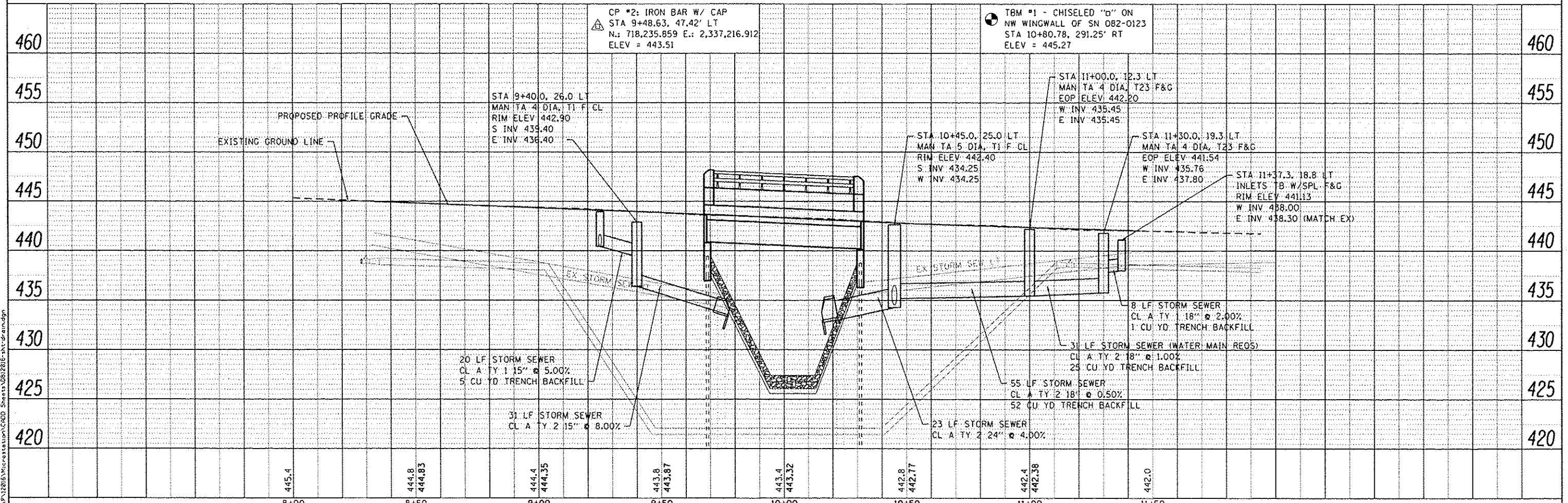
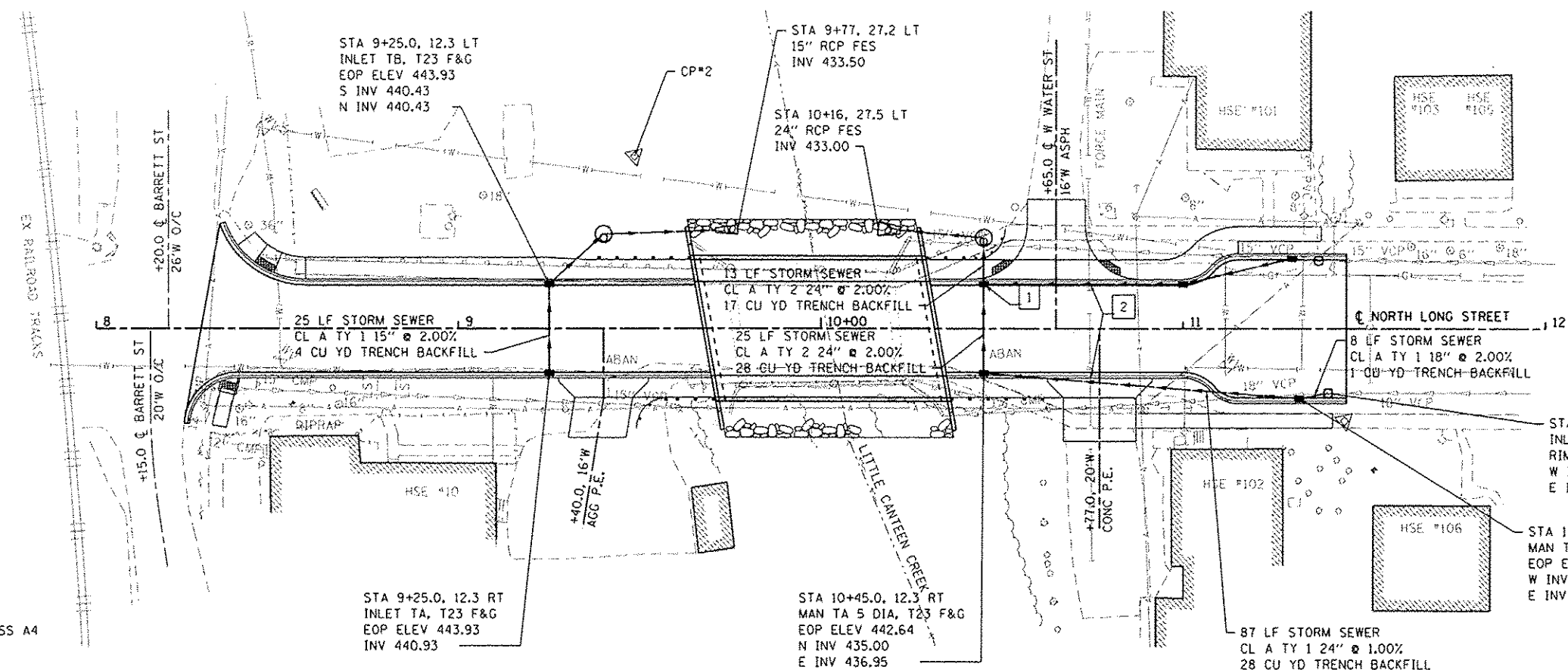
**DRAINAGE KEY NOTE LIST**

- 1 STA 10+45.0, 12.3 LT  
MAN TA 5 DIA, T23 F&G  
EOP ELEV 442.64  
N INV 434.50  
S INV 434.50  
E INV 435.17
- 2 HAND LOCATE, EXISTING  
WATER MAIN SHALL BE  
SUPPORTED DURING  
CONSTRUCTION OF PROPOSED  
STORM SEWER. (COST  
INCLUDED WITH PROPOSED  
STORM SEWER.)

NOTE: SEE CONSTRUCTION DETAILS FOR CURB TRANSITION AT TYPE 23 INLETS.

**DRAINAGE LEGEND**

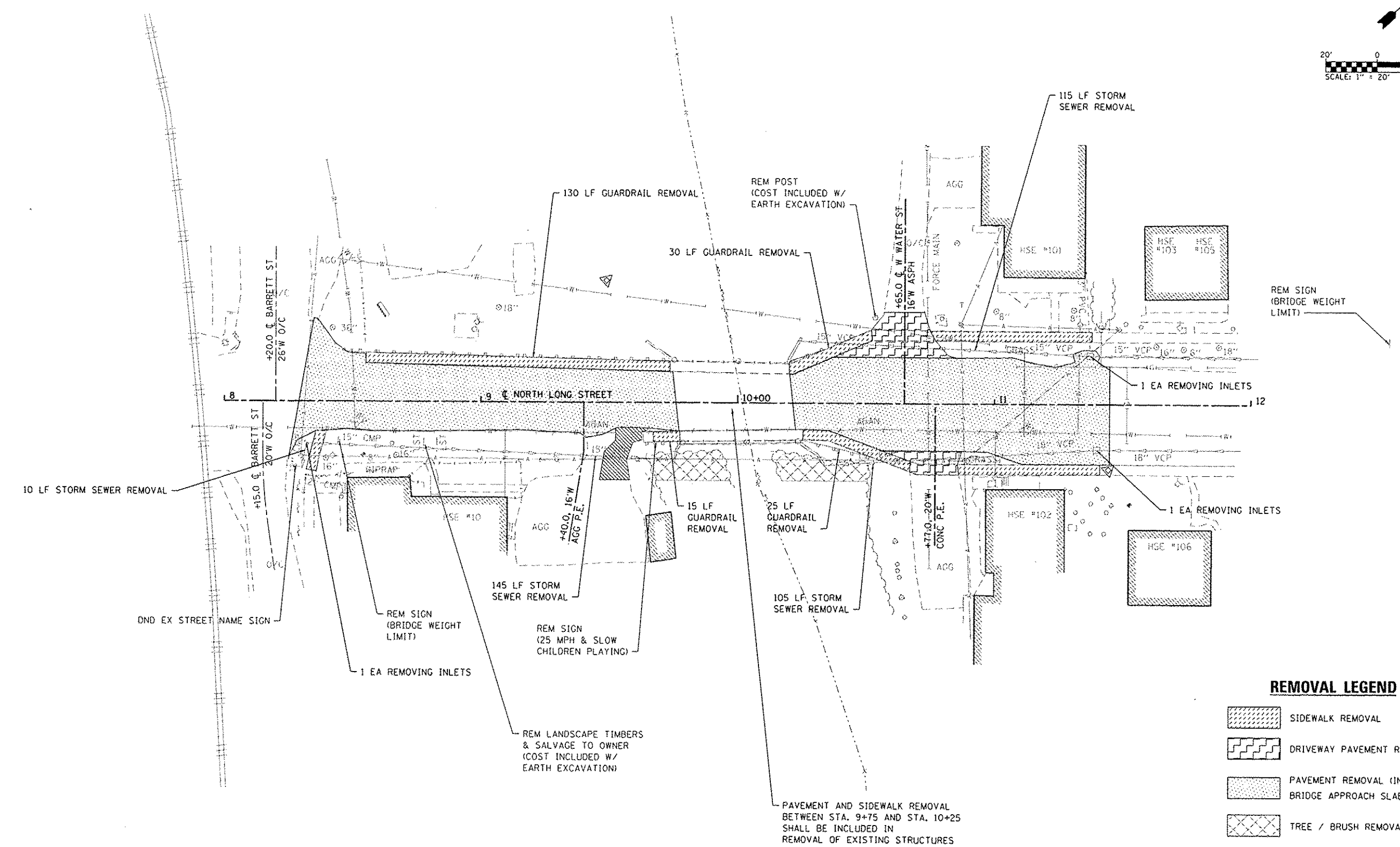
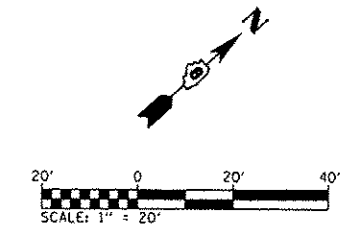
PR STONE RIPRAP, CLASS A4




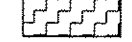

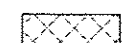

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 <b>GATES ASSOCIATES</b> <small>Engineering • Architecture</small> ILLINOIS DESIGN FIRM LICENSE NO: 144.001115	USER NAME = masio.groser	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE PLAN &amp; PROFILE SHEET</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -			12-00018-00-BR	ST. CLAIR	32	13		
	PLOT DATE = 6/15/2015	CHECKED -	REVISED -			CONTRACT NO. 97595					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					





**REMOVAL LEGEND**

-  SIDEWALK REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  PAVEMENT REMOVAL (INCLUDES REMOVAL OF BRIDGE APPROACH SLABS IF PRESENT)
-  TREE / BRUSH REMOVAL
-  AGGREGATE REMOVAL (COST INCLUDED W/ EARTH EXCAVATION)

FILE NAME: H:\PAL12\B15\Recreation\CAD\_Sheets\B12\B15-intremoval.dwg


**DATES ASSOCIATES**  
 Engineers + Architects  
 ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

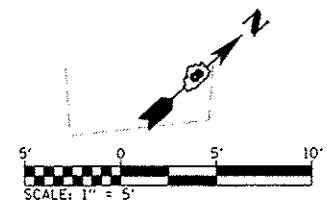
USER NAME: moisia.graser	DESIGNED: -	REVISOR: -
PLOT SCALE: 40.0000" = 1"	DRAWN: -	REVISION: -
PLOT DATE: 6/15/2015	CHECKED: -	REVISION: -
	DATE: -	REVISION: -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**


**REMOVAL PLAN**  
 SCALE: 1" = 20'    SHEET 1 OF 1 SHEETS    STA. 8+00 TO STA. 12+00

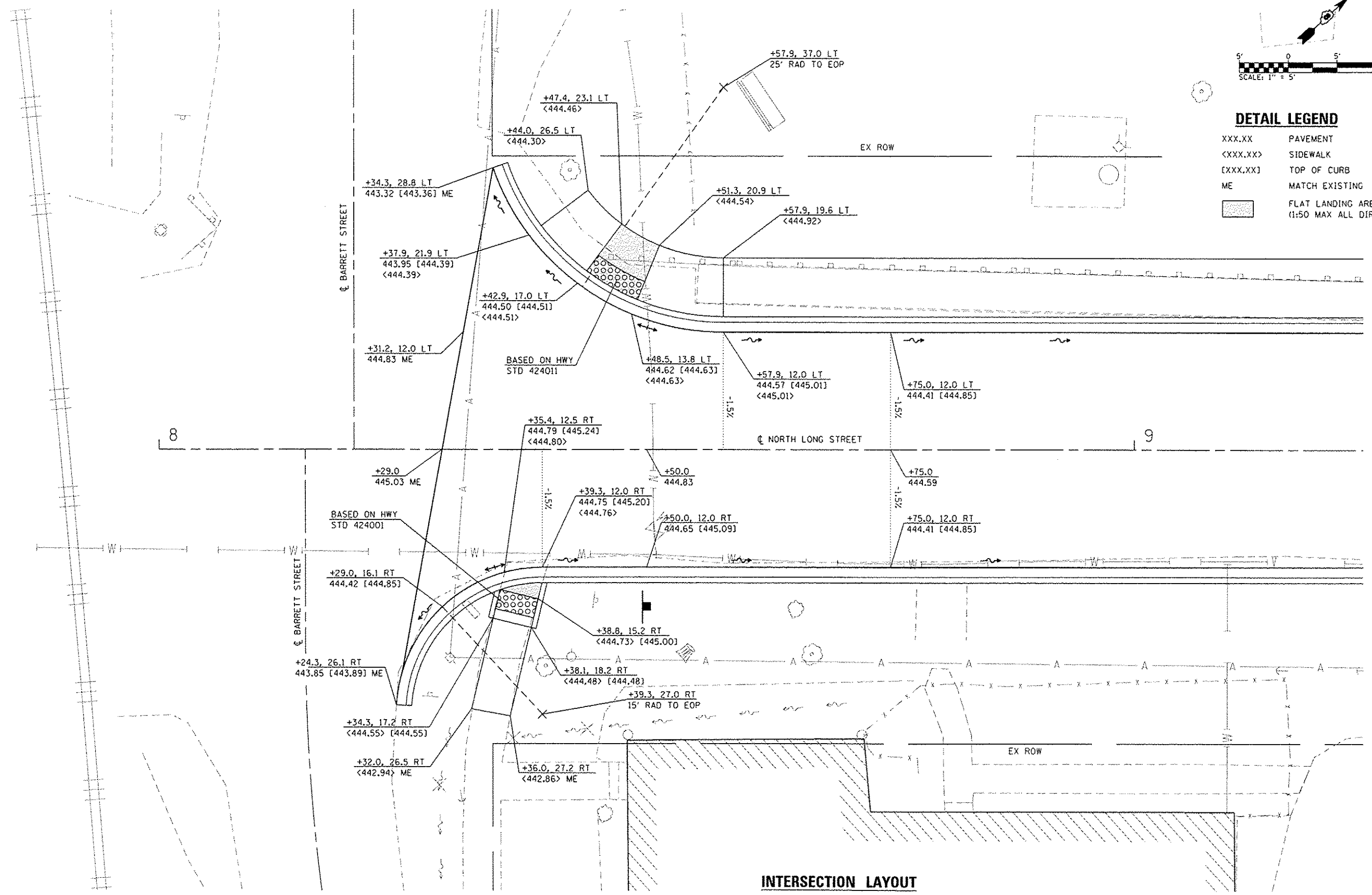
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	14

CONTRACT NO. 97595  
 ILLINOIS FED. AID PROJECT



**DETAIL LEGEND**

XXX.XX	PAVEMENT
<XXX.XX>	SIDEWALK
[XXX.XX]	TOP OF CURB
ME	MATCH EXISTING
	FLAT LANDING AREA (1:50 MAX ALL DIRECTIONS)



**INTERSECTION LAYOUT  
NORTH LONG STREET WITH BARRETT STREET**

FILE NAME = H:\P\12818\Microstation\CADD Sheets\081215\INT\Intersec.dgn



USER NAME = moisie.graser	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 6/15/2015	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>INTERSECTION DETAILS</b>	
SCALE: 1" = 5'	SHEET 1 OF 1 SHEETS
STA. _____	TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	15
CONTRACT NO. 97595				
ILLINOIS FED. AID PROJECT				



Bench Mark: Chisled square on top of northwest wingwall of S.N. 082-0123 carrying IL 157 over Little Canteen Creek, Sta. 10+80.78, 291.25' Rt., Elev. 445.27.

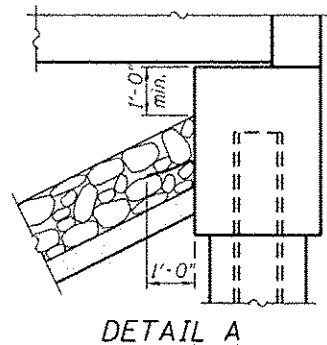
Existing Structure: S.N. 082-6200 was originally built in 1948 and consists of a single span of cast-in-place reinforced concrete T-beams with an integral reinforced concrete deck supported by closed concrete abutments. The back to back abutment length is approximately 46' and the out to out width is approximately 34'. Structure to be removed and replaced.

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

Salvage: None

**INDEX OF SHEETS**

Sheet No.	Description
1	General Plan & Elevation
2-3	Superstructure Details
4	27" x 48" PPC Deck Beam
5	27" x 48" PPC Deck Beam Details
6	Aluminum Railing, Type L
7	South Abutment Details
8	North Abutment Details
9	HP Pile Details
10-11	Soil Boring Logs



**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.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	449	449
Filter Fabric	Sq. Yd.	-	449	449
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	164	164
Concrete Structures	Cu. Yd.	-	44.8	44.8
Concrete Superstructure	Cu. Yd.	37.5	-	37.5
Bridge Deck Grooving	Sq. Yd.	173	-	173
Concrete Encasement	Cu. Yd.	-	4.8	4.8
Protective Coat	Sq. Yd.	324	-	324
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2,520	-	2,520
Reinforcement Bars, Epoxy Coated	Pound	7,700	6,360	14,060
Aluminum Railing, Type L	Foot	113	-	113
Furnishing Steel Piles HP12x53	Foot	-	1,131	1,131
Driving Piles	Foot	-	1,131	1,131
Test Pile Steel HP12x53	Each	-	1	1
Name Plates	Each	1	-	1
Concrete Wearing Surface, 5"	Sq. Yd.	280	-	280

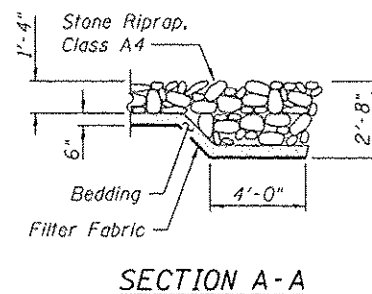
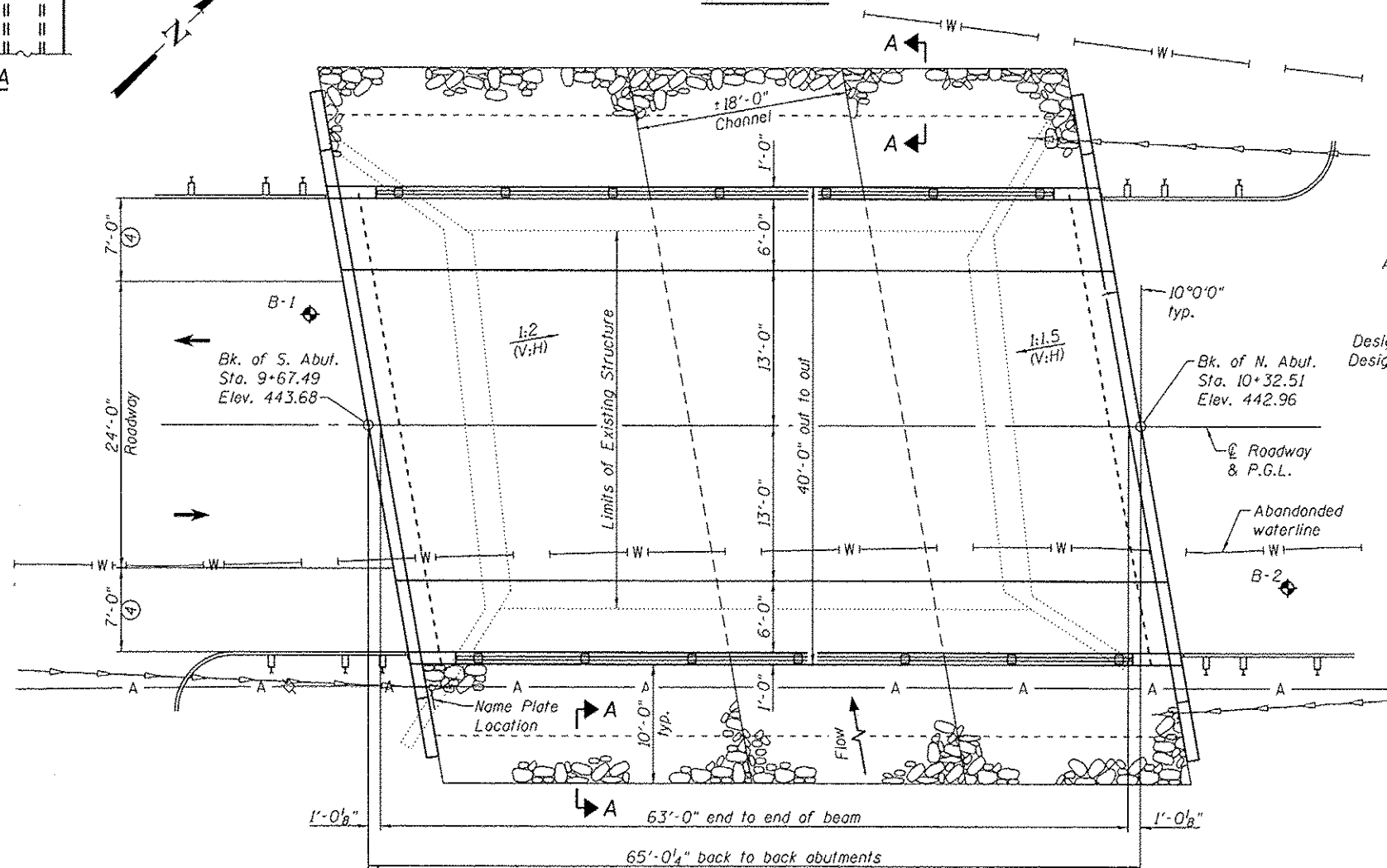
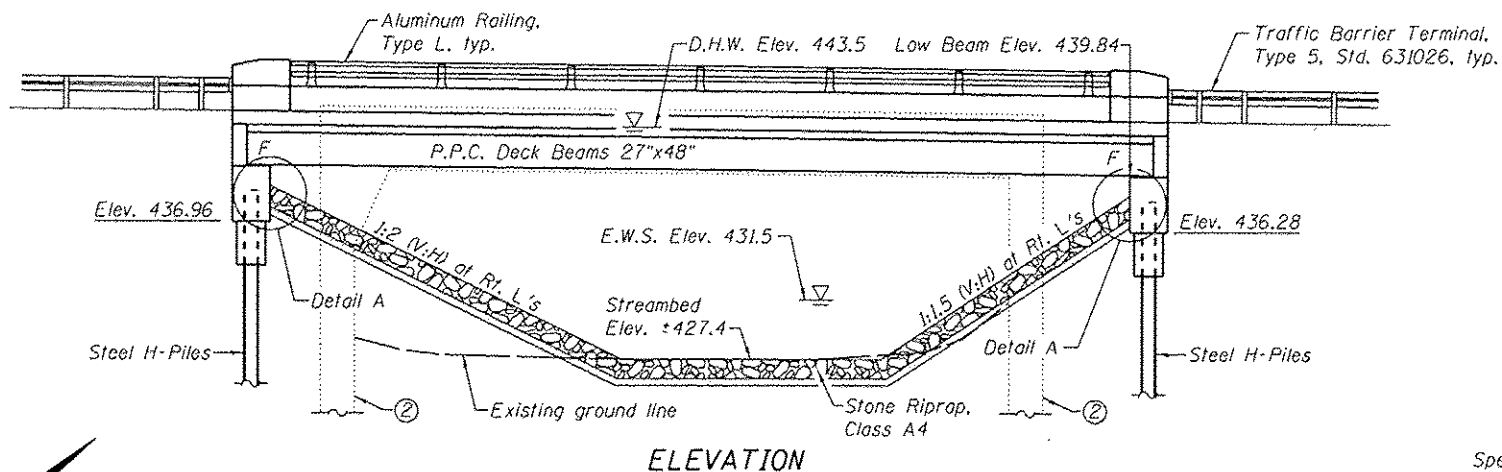
**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevations (ft.)				
	S. Abut.	N. Abut.	Item 113(3)	
0100	-	-	B	
0500	-	-		
Design	436.96	436.28		
Check	436.96	436.28		

**WATERWAY INFORMATION**

Drainage Area = 8.0 sq. mi. Low Grade Elev. 441.8 at Sta. 11+90

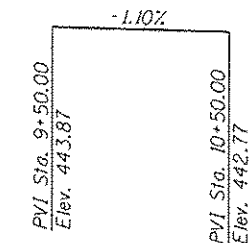
Flood	Freq. Yr.	Q	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	3,120	480	510	440.9	1.1	1.1	442.0	442.0
	30	4,490	480	510	443.5	0.8	0.8	444.3	444.3
	50	4,830	480	510	444.0	0.6	0.6	444.6	444.6
Base	100	5,630	480	510	444.2	0.6	0.6	444.8	444.8



- Notes:
- Water line attached to existing structure to be relocated by others.
  - Location and size of existing footings unknown. Portions of the existing footings which will interfere with driving of new piling shall be removed. Cost included with Removal of Existing Structures.
  - Determined by rational analysis.
  - Sidewalk, curb, and gutter.

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

LICENSED STRUCTURAL ENGINEER  
 DANIEL GEORGE LUTZ  
 081 006772  
 STATE OF ILLINOIS  
 DATE: 6/8/2015  
 EXPIRATION: 11/30/2016



**PROFILE GRADE**  
(Along & Roadway)

**DESIGN SPECIFICATIONS**  
 2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

**DESIGN STRESSES**  
 FIELD UNITS

- $f'_c = 3,500$  psi
- $f_y = 60,000$  psi (Reinforcement)
- PRECAST PRESTRESSED UNITS**
- $f'_c = 6,000$  psi
- $f'_{ci} = 5,000$  psi
- $f_{pu} = 270,000$  psi ( $1/2$ "  $\phi$  low-relax strands)
- $f_{pbt} = 201,960$  psi ( $1/2$ "  $\phi$  low-relax strands)

**LOADING HL-93**

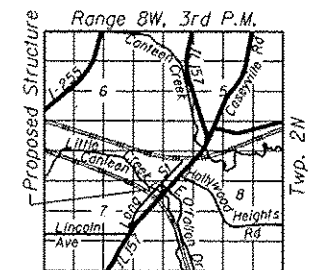
Allow 50#/#sq. ft. for future wearing surface.

**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

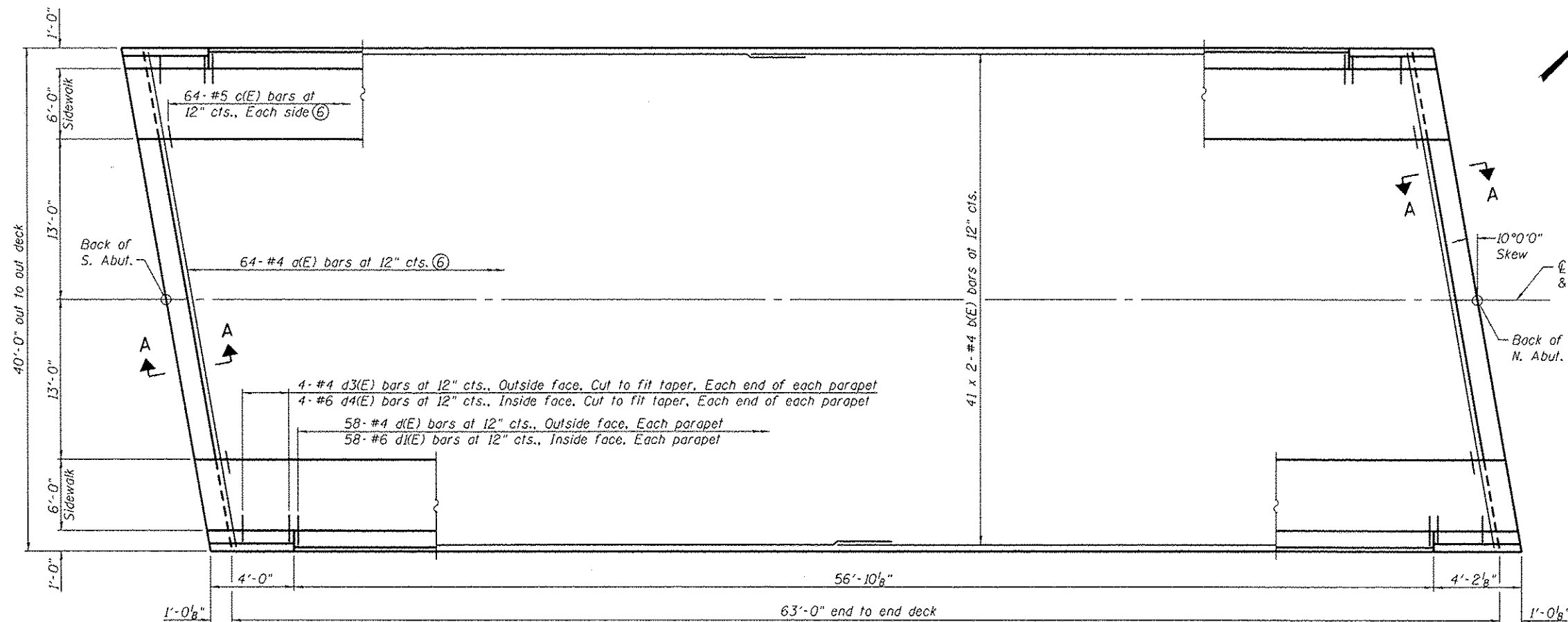
LITTLE CANTEN CREEK  
 BUILT 20... BY  
 ST. CLAIR COUNTY  
 SEC. 12-00018-00-BR  
 STATION 10+00.00  
 STR. NO. 082-6201 LOADING HL-93

**NAME PLATE**  
 See Std. 515001

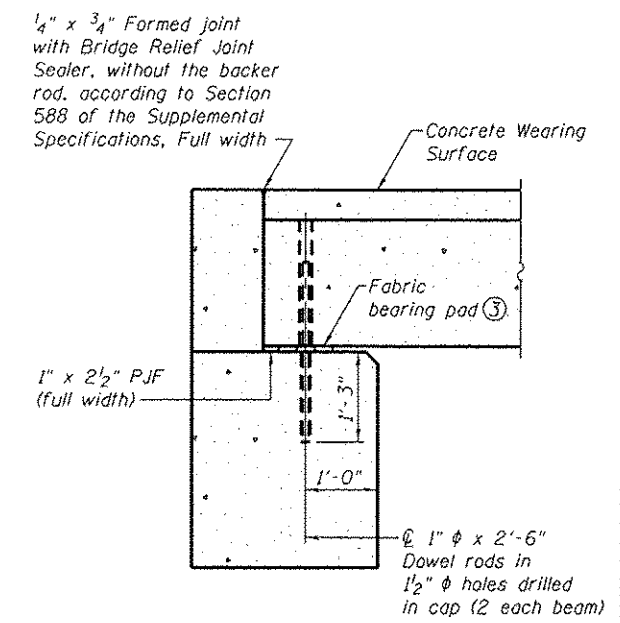


**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION**  
 NORTH LONG STREET  
 OVER LITTLE CANTEN CREEK  
 SEC. 12-00018-00-BR  
 ST. CLAIR COUNTY  
 STATION 10+00.00  
 STRUCTURE NO. 082-6201

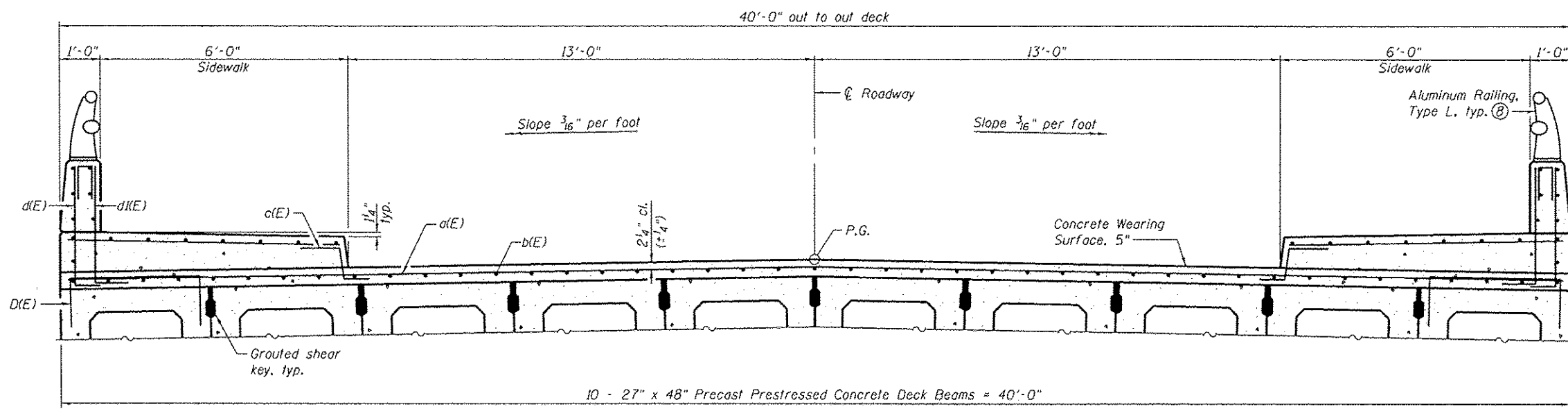


**PLAN**  
(Showing concrete wearing surface reinforcement)



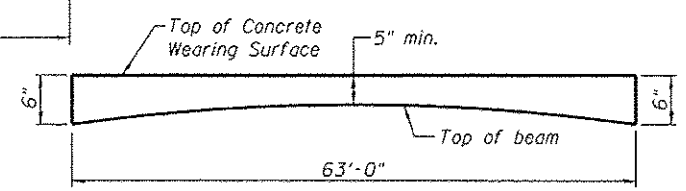
**SECTION A-A**  
(Dimensions are at Rt. L's)

**MINIMUM BAR LAP**  
#4 bar = 2'-7"



**CROSS SECTION**

- Notes:
- ① Concrete wearing surface shall be placed prior to casting backwalls.
  - ② For PPC Deck Beam details and Bill of Material, see sheets 4 and 5 of II.
  - ③ For fabric bearing pad details, see sheet 5 of II.
  - ④ For additional superstructure details and Superstructure Bill of Material, see sheet 3 of II.
  - ⑤ Bars indicated thus 41 x 2-#4 etc. indicates 41 lines of bars with 2 lengths per line.
  - ⑥ Spacing of a(E) and c(E) bars shall be measured parallel to  $\phi$  Roadway.
  - ⑦ Anticipated beam camber is 1".
  - ⑧ For Aluminum Railing, Type L details, see sheet 6 of II.



**ANTICIPATED CONCRETE WEARING SURFACE PROFILE** ⑦  
(For information only)

FILE NAME = H:\PA1218\Structure\1\Final Plans\Microstation\082-Superstructure Details.dgn



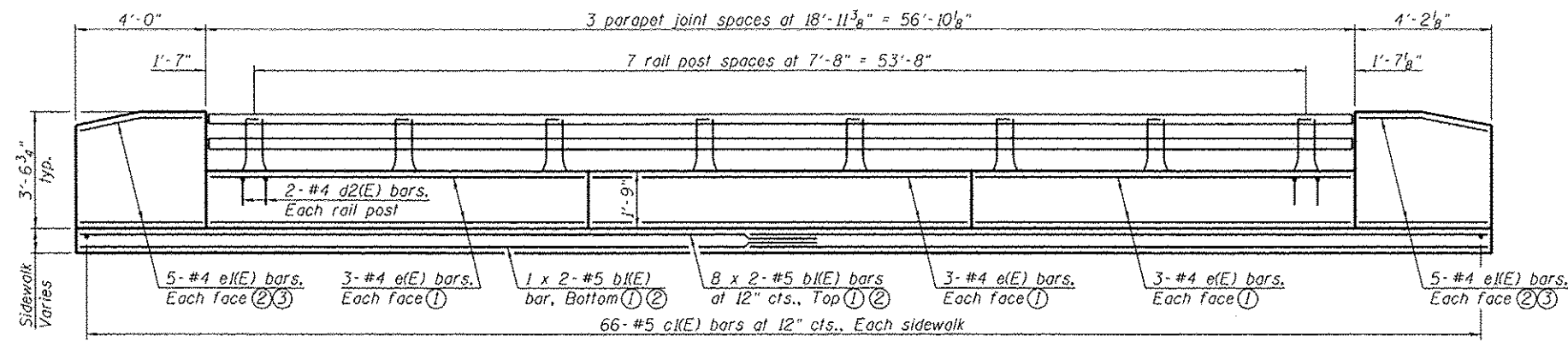
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PLLOT SCALE :	CHECKED - K.B.C	REVISED -
PLLOT DATE :	DRAWN - S.J.N	REVISED -
	CHECKED - K.B.C	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

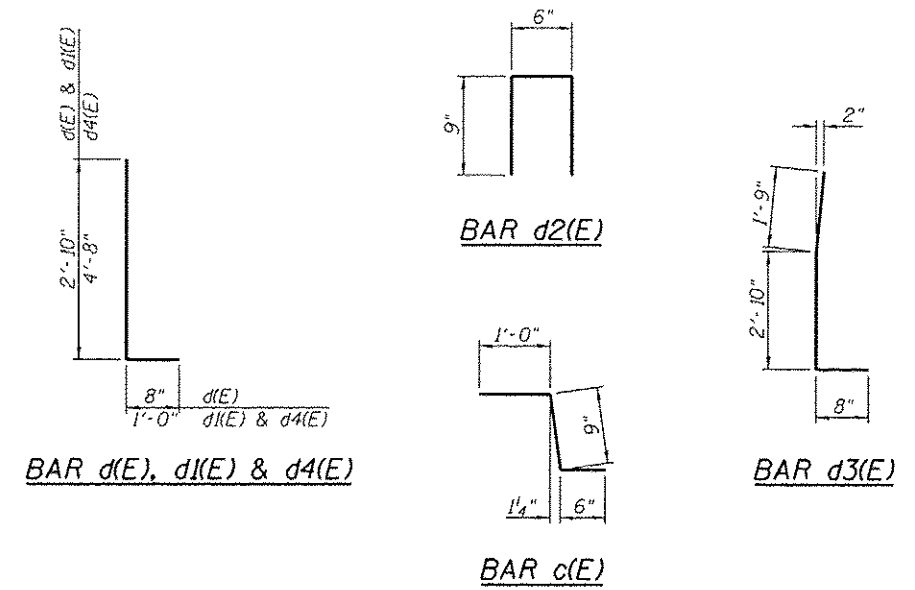
**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 082-6201**

SHEET NO. 2 OF 11 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00018-00-BR	ST. CLAIR	32	17
CONTRACT NO. 97595		ILLINOIS FED. AID PROJECT	



INSIDE ELEVATION OF PARAPET & SIDEWALK

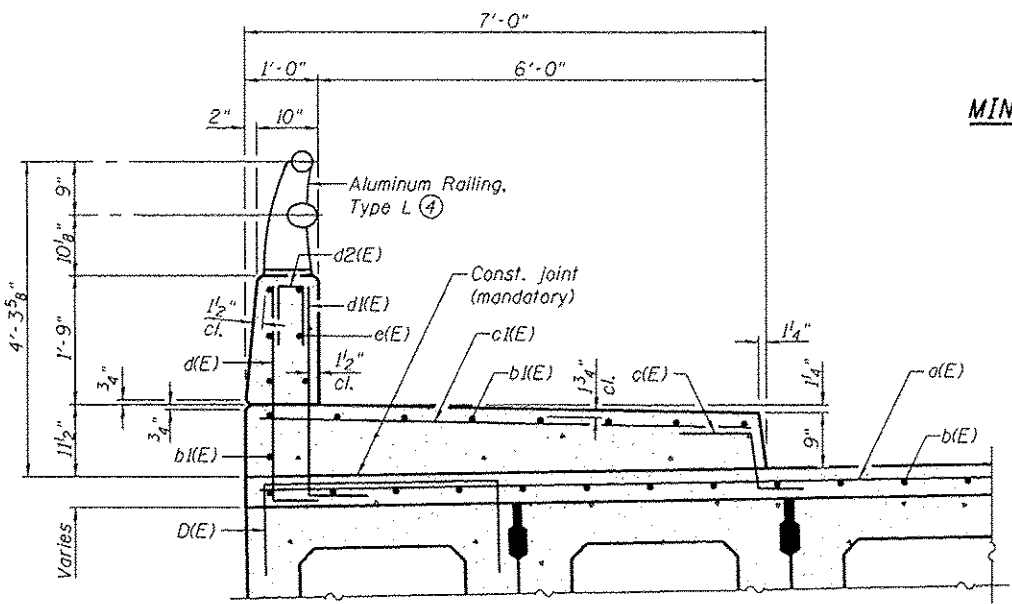


BAR d(E), d1(E) & d4(E)

BAR d2(E)

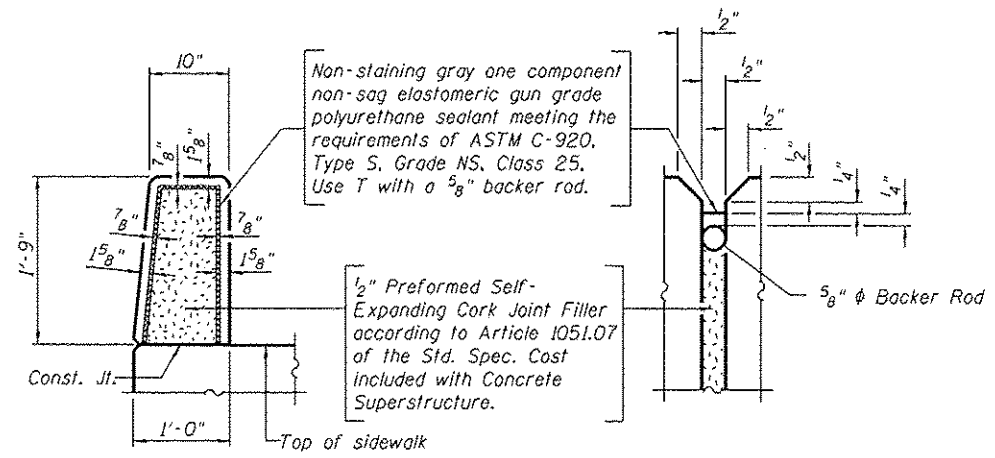
BAR d3(E)

BAR c(E)



SECTION THRU SIDEWALK & PARAPET

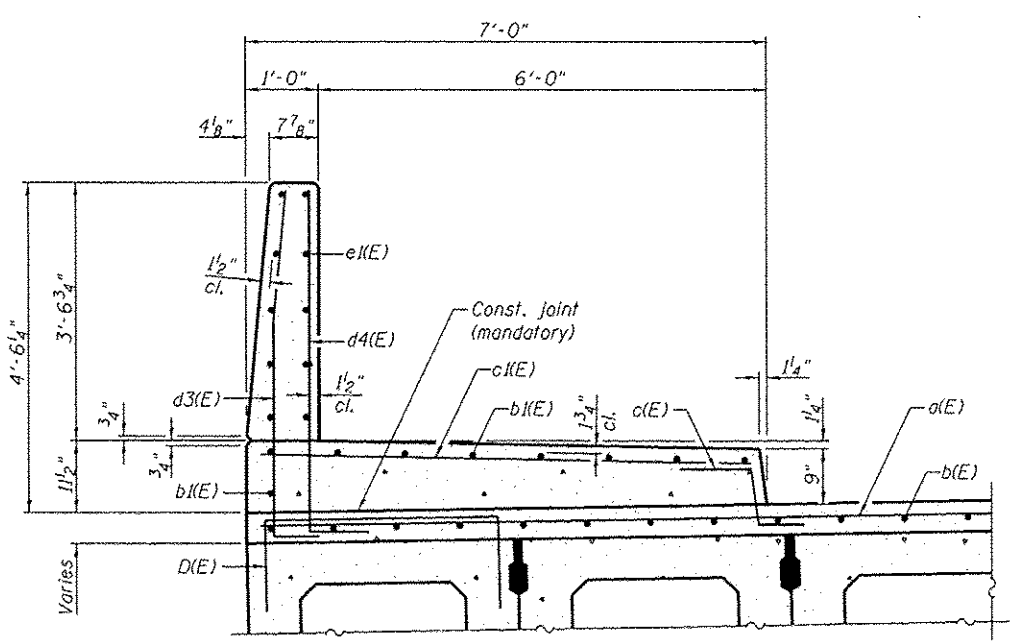
MINIMUM BAR LAP  
#5 bar = 3'-3"



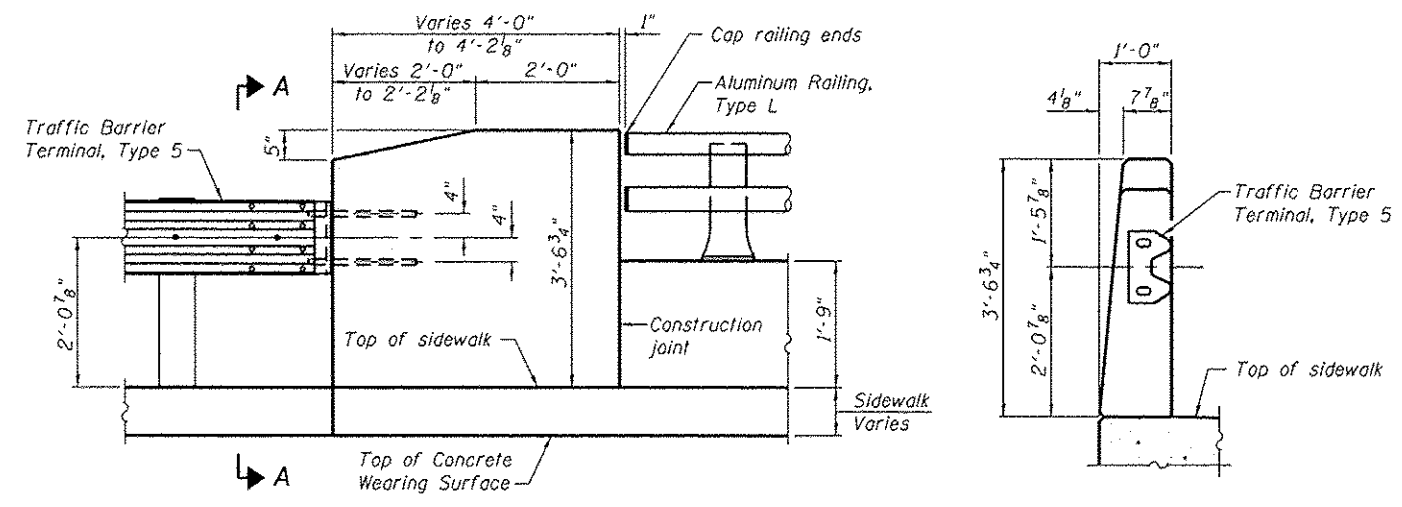
PARAPET JOINT DETAILS

SUPERSTRUCTURE  
BILL OF MATERIAL

Bar No.	Size	Length	Shape
d(E)	64 #4	40'-3"	—
b(E)	82 #4	32'-8"	—
b1(E)	36 #5	34'-0"	—
c(E)	128 #5	2'-3"	—
c1(E)	132 #5	6'-6"	—
d(E)	116 #4	3'-6"	—
d1(E)	116 #6	3'-10"	—
d2(E)	32 #4	2'-0"	—
d3(E)	16 #4	5'-3"	—
d4(E)	16 #6	5'-8"	—
e(E)	36 #4	18'-7"	—
e1(E)	40 #4	3'-8"	—
Concrete Superstructure		Cu. Yd.	37.5
Reinforcement Bars, Epoxy Coated		Pound	7,700
Concrete Wearing Surface, 5"		Sq. Yd.	280



SECTION THRU SIDEWALK & END POST

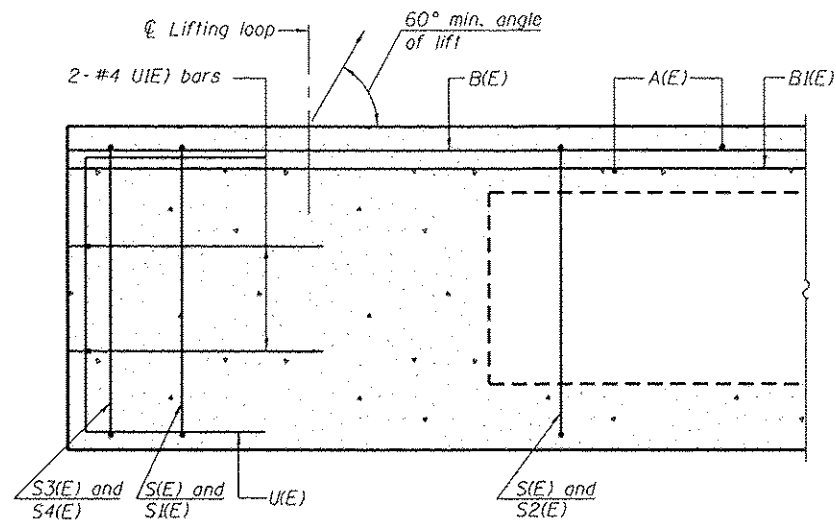


ELEVATION

SECTION A-A

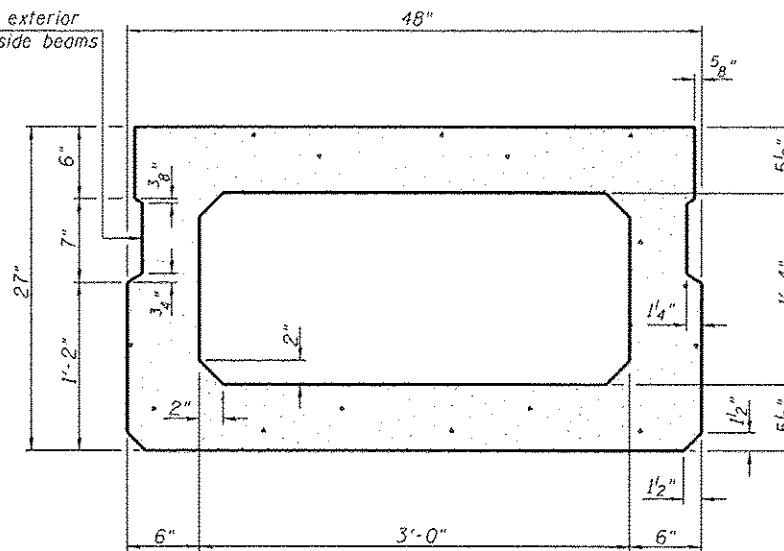
- Notes:  
 ① See Section Thru Sidewalk & Parapet.  
 ② See Section Thru Sidewalk & End Post.  
 ③ Bend in field as required.  
 ④ For Aluminum Railing, Type L details, see sheet 6 of 11.

FILE NAME: H:\P12818\Structure\Final Plans\Information\B2E201-003-Superstructure Details.dgn

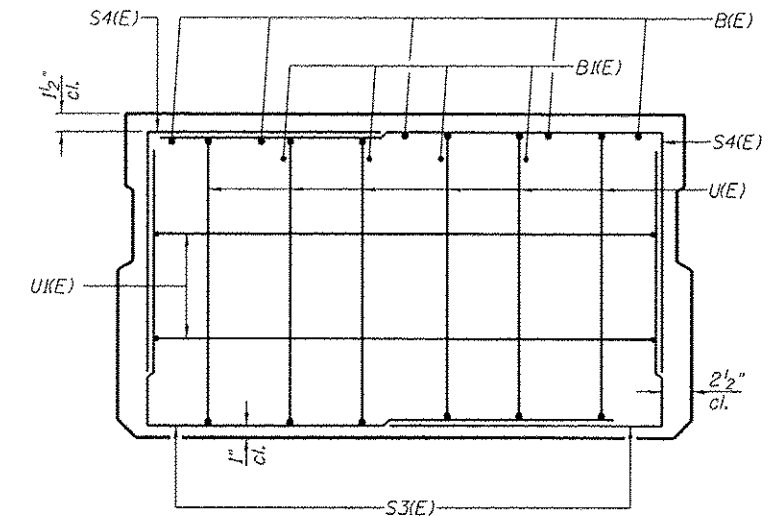


SECTION A-A

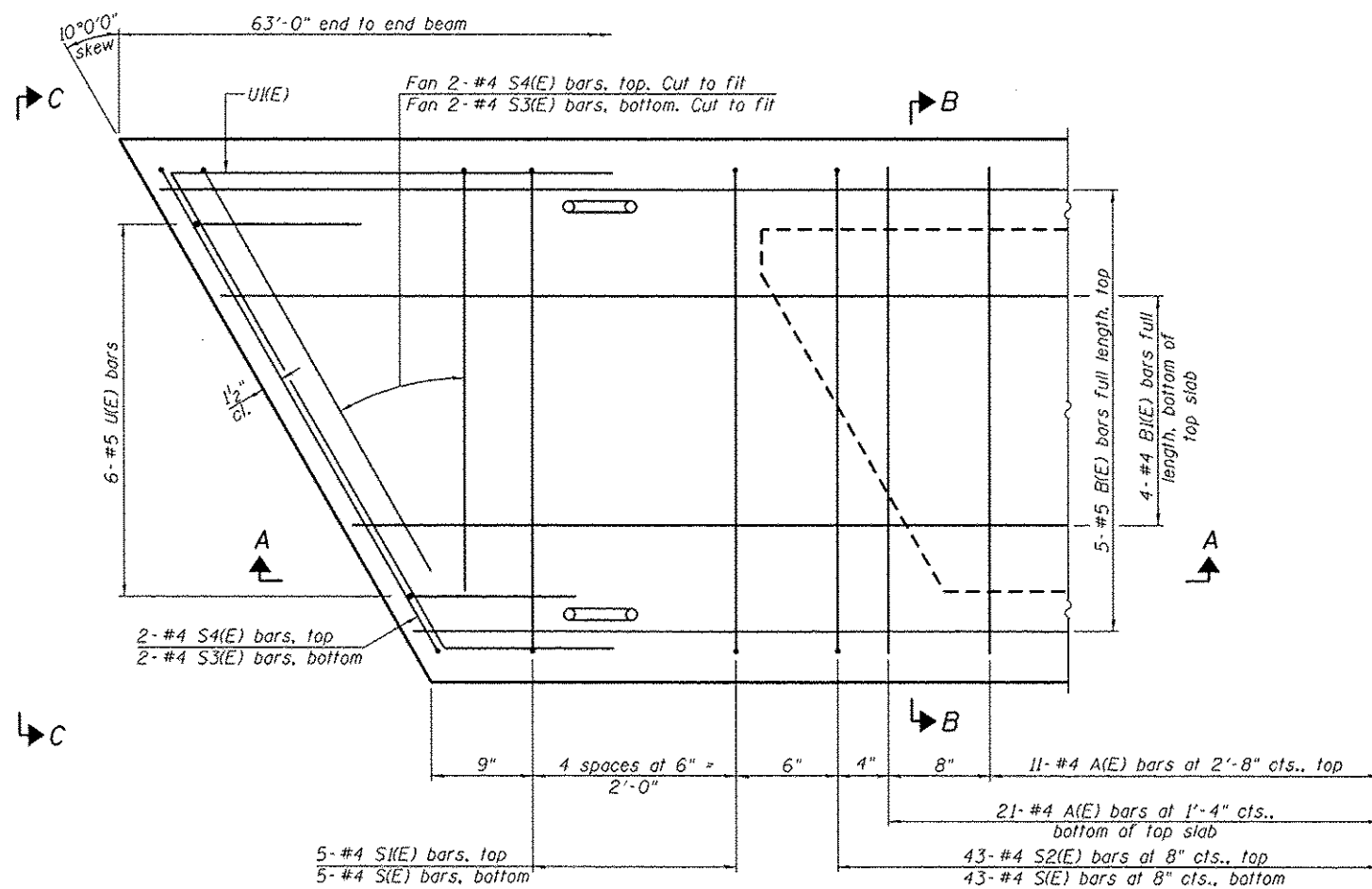
Omit key on exterior face of outside beams



SECTION B-B  
(Showing dimensions)

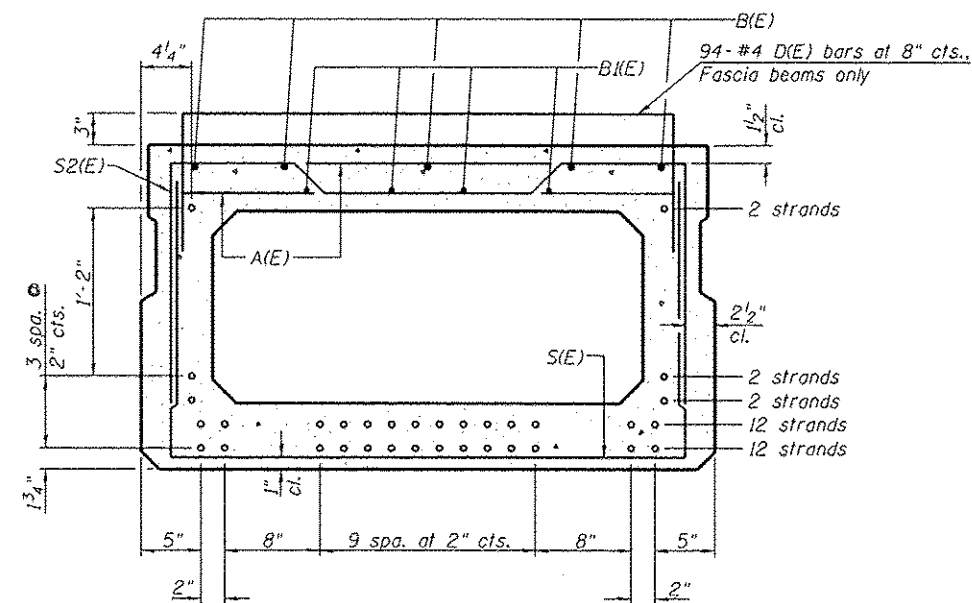


VIEW C-C



PLAN VIEW

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.



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)	64	#4	3'-7"	—
B(E)	5	#5	62'-9"	—
B(E)	4	#4	62'-9"	—
D(E)	94	#4	5'-7"	⌌
S(E)	96	#4	7'-5"	⌌
S(E)	10	#4	6'-11"	⌌
S2(E)	86	#4	7'-2"	⌌
S3(E)	8	#4	4'-9"	⌌
S4(E)	8	#4	4'-6"	⌌
U(E)	12	#5	4'-6"	⌌
U(E)	4	#4	6'-9"	⌌

Notes:  
① See sheet 5 of 11 for additional details and Bill of Material.  
② Fascia beams only.

MINIMUM BAR LAP

#4 bar = 2'-0"  
#5 bar = 2'-6"

FILE NAME: H:\P\1218\Structure\1\Find Plans\Hrcassation\0826201-084-27 - 48 PPC Deck Beam.dgn



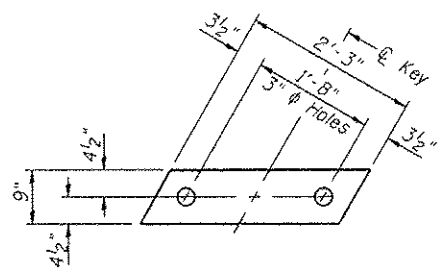
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PLOT SCALE: *	CHECKED - KBC	REVISED -
PLOT DATE: 6/8/2015	DRAWN - SJN	REVISED -
	CHECKED - KBC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

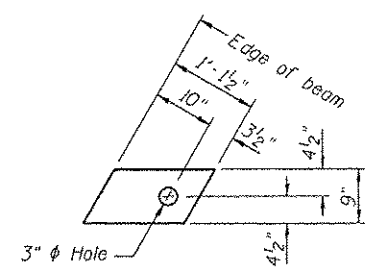
27" x 48" PPC DECK BEAM  
STRUCTURE NO. 082-6201

SHEET NO. 4 OF 11 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00018-00-BR	ST. CLAIR	32	19
		CONTRACT NO. 97595	
ILLINOIS FED. AID PROJECT			



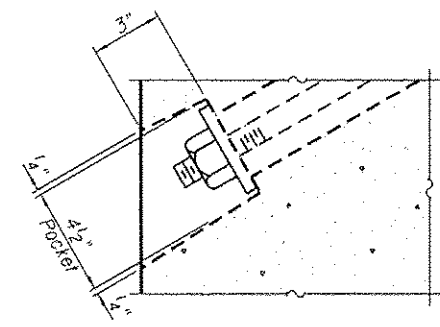
**FABRIC BEARING PAD**  
(Interior)



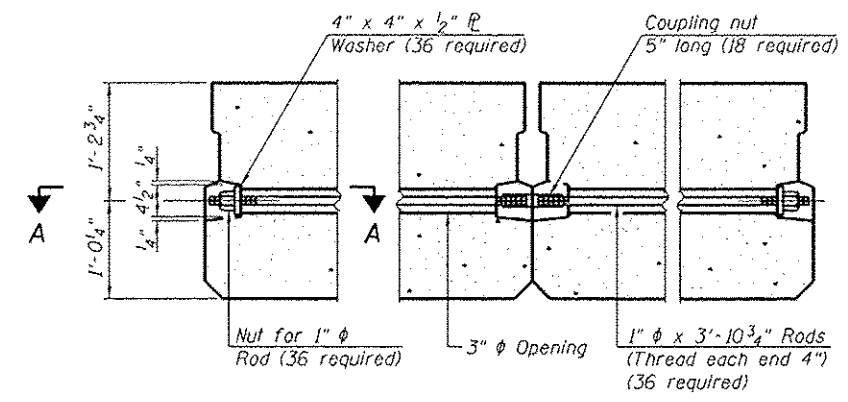
**FABRIC BEARING PAD**  
(Exterior)

**FIXED**

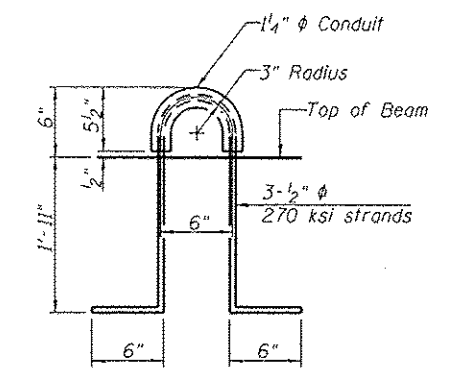
Note:  
All bearing pads shall be 1" thick.



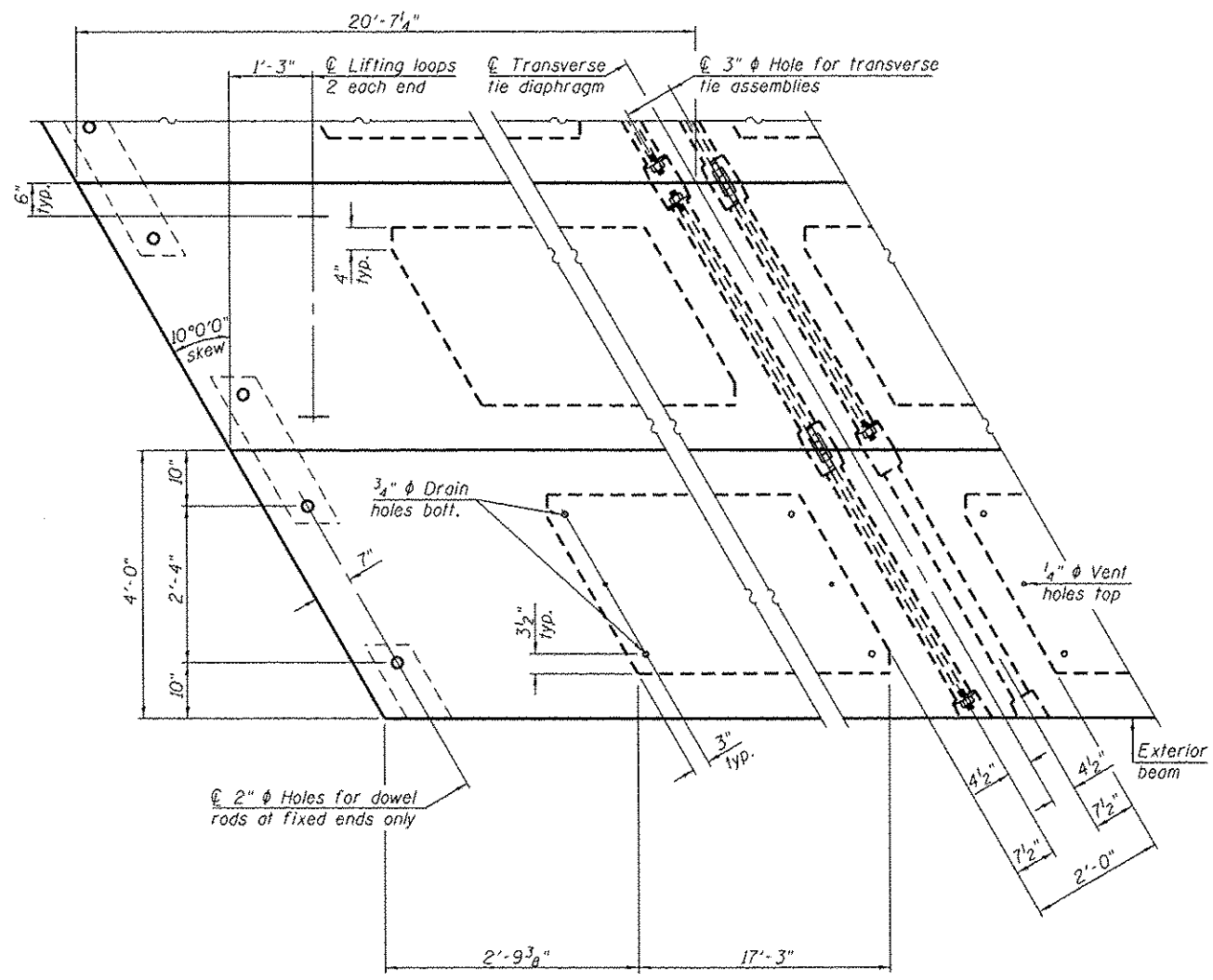
**SECTION A-A**



**TYPICAL TRANSVERSE TIE ASSEMBLY**

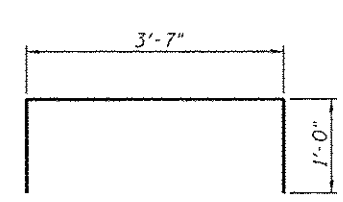


**LIFTING LOOP DETAIL**

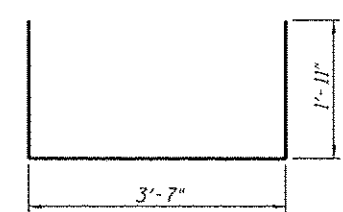


**PLAN VIEW**

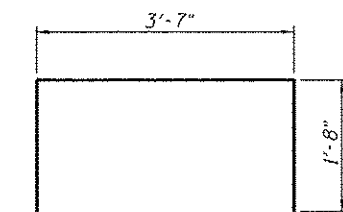
Note: Connect beams in pairs with the transverse tie configuration shown.



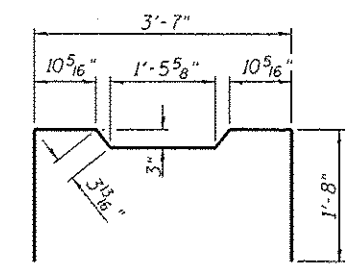
**BAR D(E)**



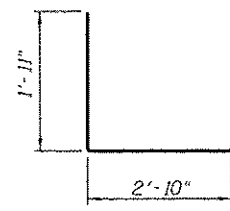
**BAR S(E)**



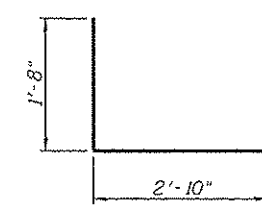
**BAR S1(E)**



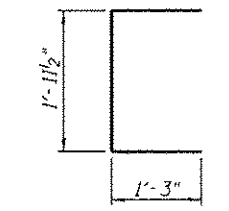
**BAR S2(E)**



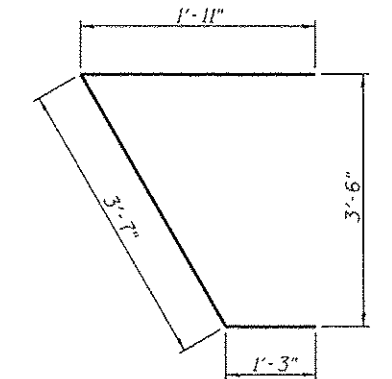
**BAR S3(E)**



**BAR S4(E)**



**BAR U(E)**



**BAR U1(E)**

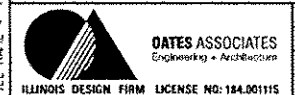
**NOTES**

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" 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)(12) and 1021.06 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.

**BILL OF MATERIAL**

Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams (27" depth)	Sq. Ft.	2,520

PD-2748-RD 7-1-10



USER NAME	DESIGNED - S.J.N.	REVISED -
PLLOT SCALE	CHECKED - K.B.C.	REVISED -
PLLOT DATE = 6/8/2015	DRAWN - S.J.N.	REVISED -
	CHECKED - K.B.C.	REVISED -

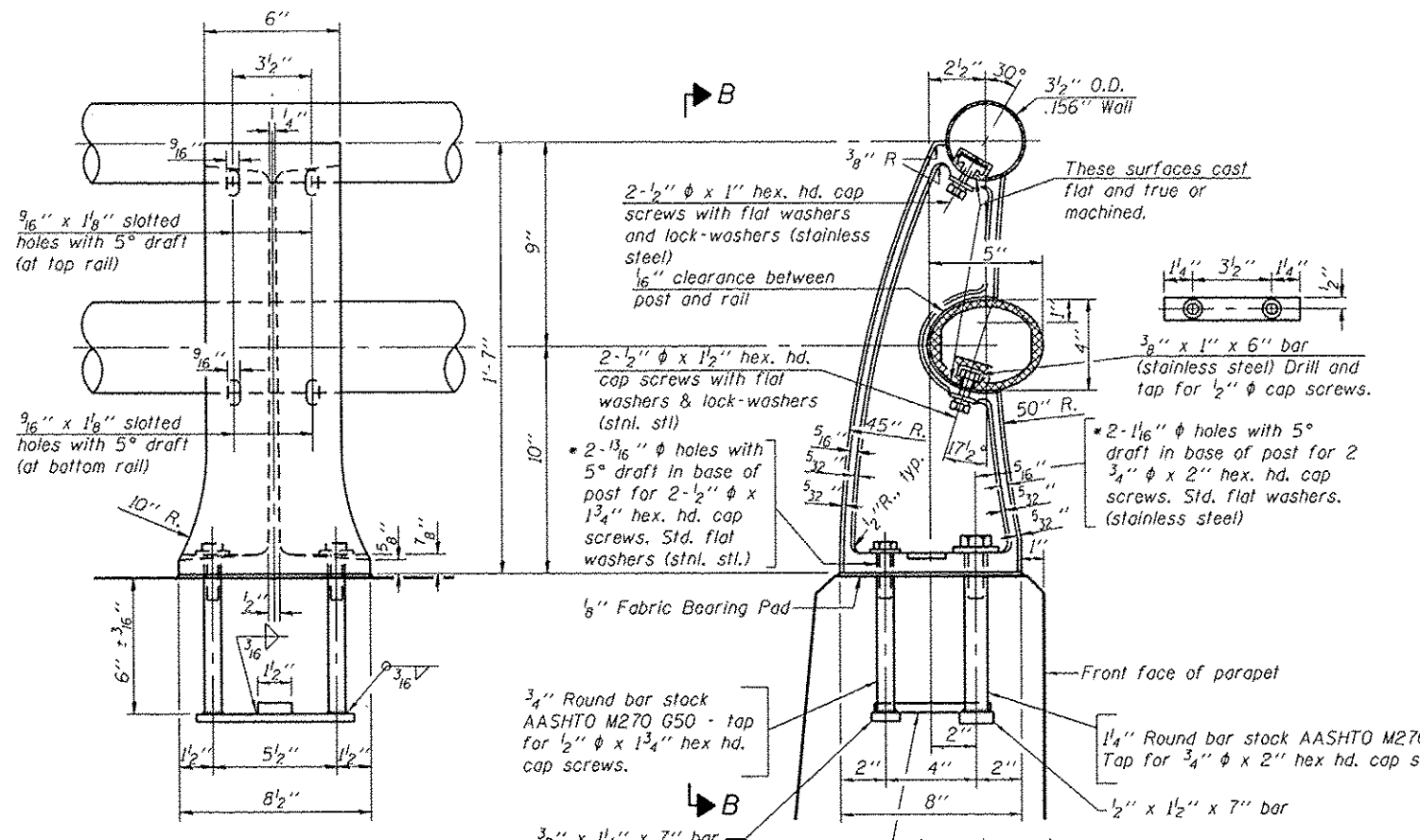
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

27" x 48" PPC DECK BEAM DETAILS  
STRUCTURE NO. 082-6201

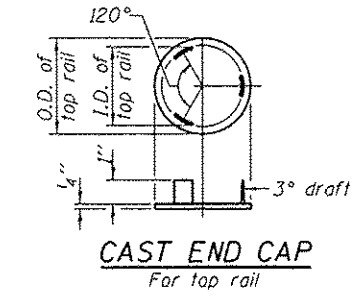
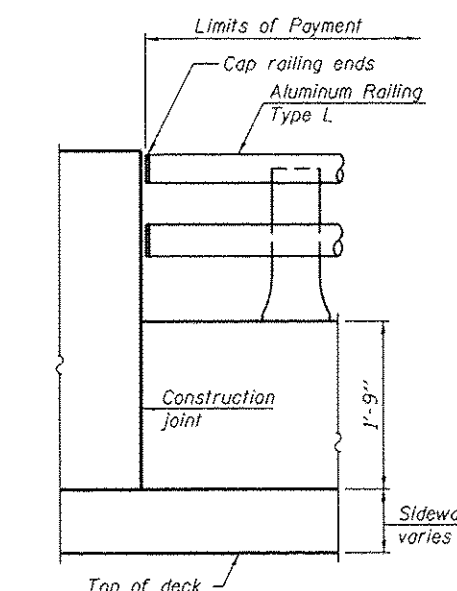
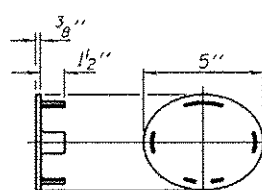
SHEET NO. 5 OF 11 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00018-00-BR	ST. CLAIR	32	20
			CONTRACT NO. 97595

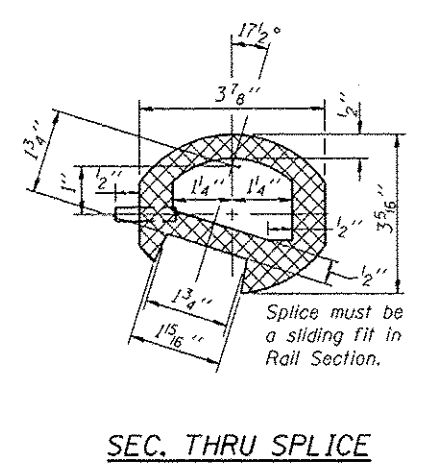
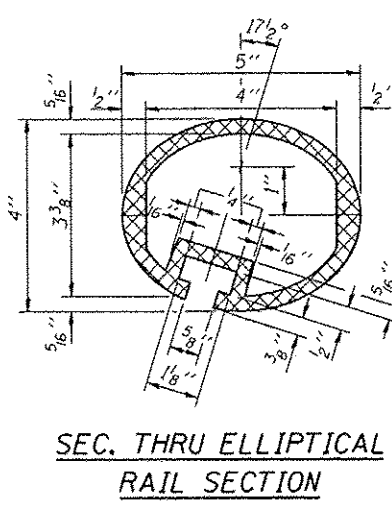
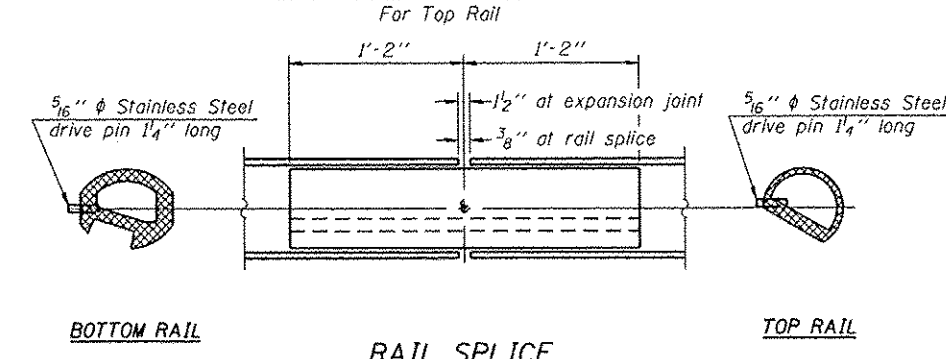
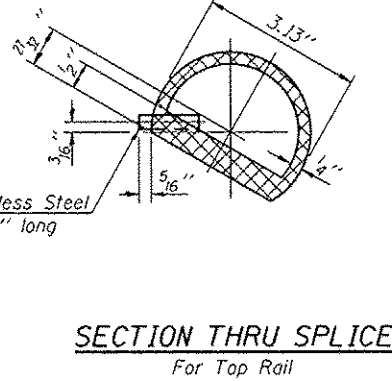
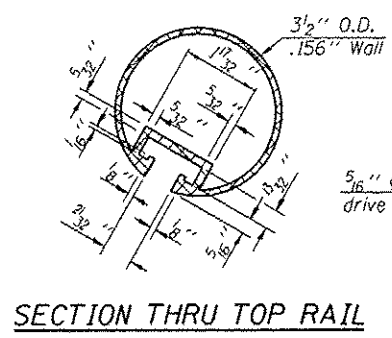
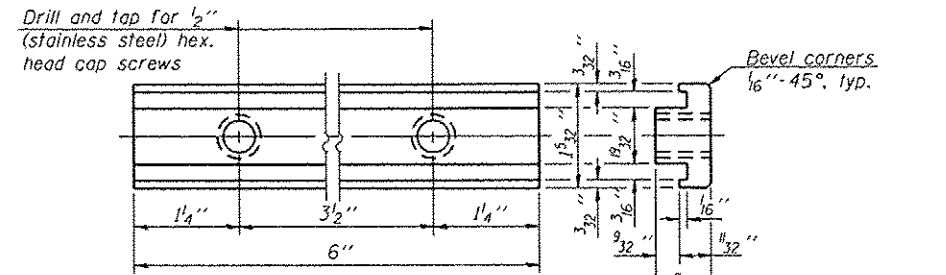
ILLINOIS FED. AID PROJECT



\* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**RAIL END TREATMENT FOR TYPE 5 AND 6 TERMINAL**



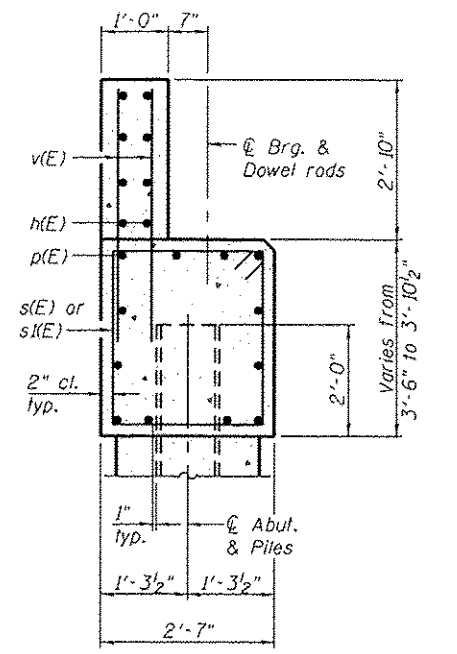
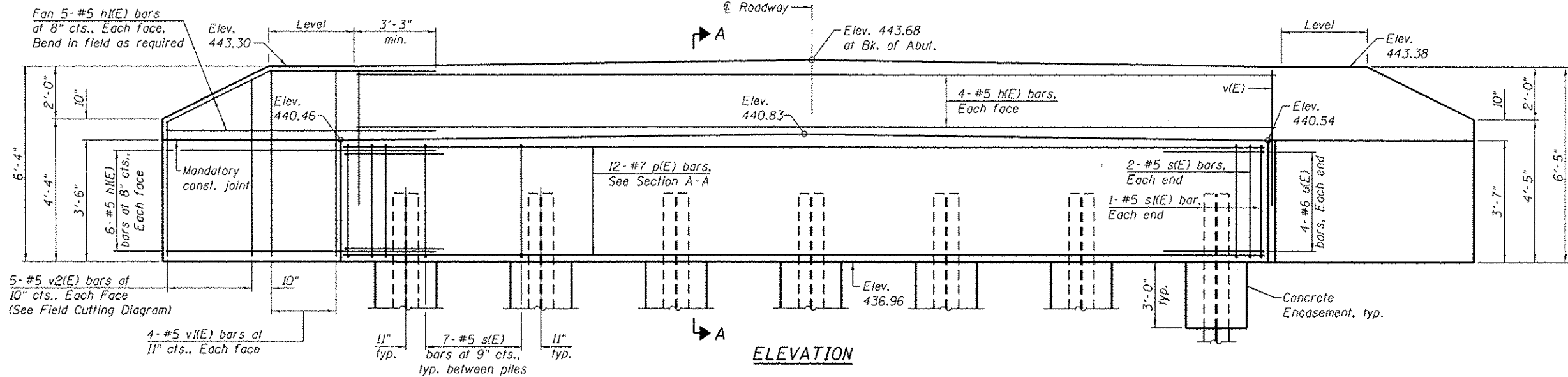
Notes:  
All Posts shall be normal to parapet.  
All joints in rail shall be spliced per detail.  
All exposed rail ends shall be capped per detail.  
Provide 1-1/8" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.  
See sheet 3 of 11 for rail post spacing.

**BILL OF MATERIAL**

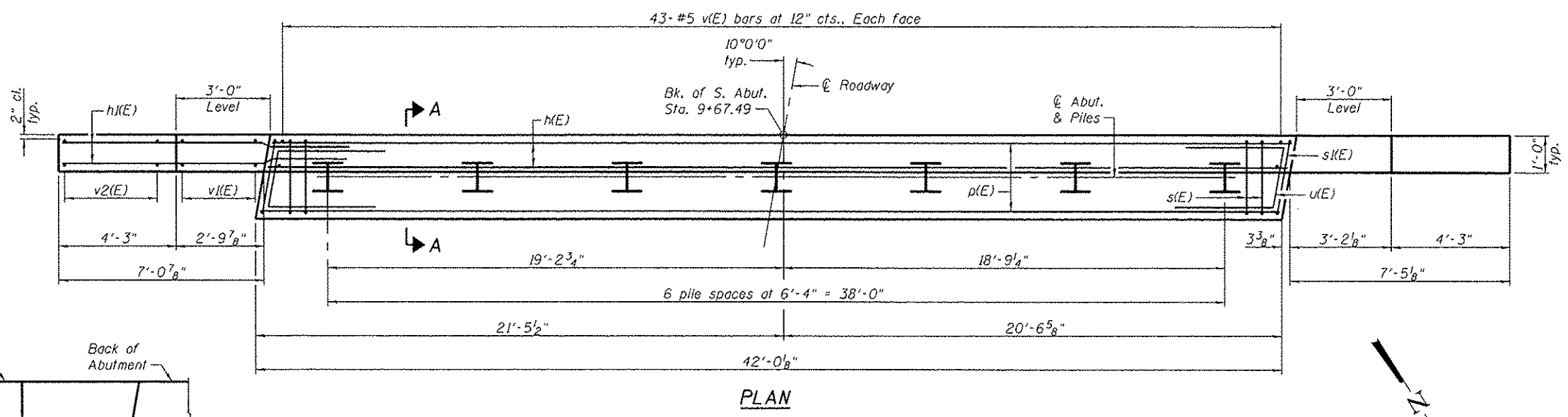
Item	Unit	Quantity
Aluminum Railing, Type L	Foot	113

R-20 (7'-0" to 10'-0" Post spacing)

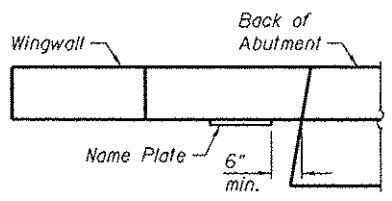




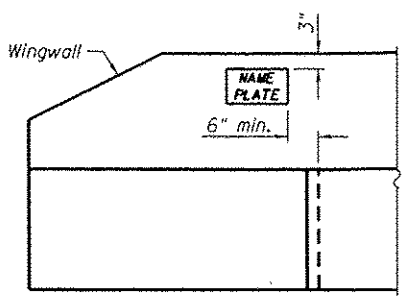
**SECTION A-A**  
(Dimensions are at Rt. L's)



**PLAN**



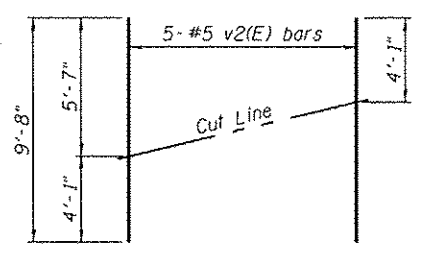
**PLAN**



**ELEVATION**

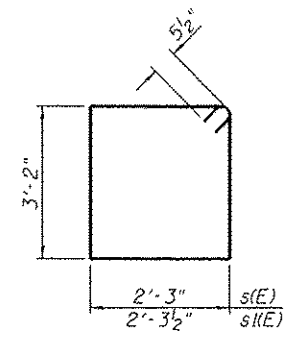
**LOCATION OF NAME PLATE**

**PILE DATA**  
 Type: Steel HPI2x53  
 Nominal Required Bearing: 419 kips  
 Factored Resistance Available: 230 kips  
 Est. Length: 87 ft  
 No. Production Piles: 6  
 No. Test Piles: 1

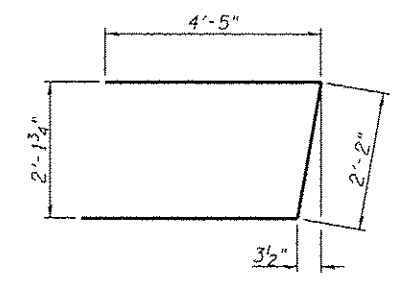


**FIELD CUTTING DIAGRAM**

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



**BARS s(E) & s(K)**



**BAR u(E)**

- Notes:  
 ① For details of piles and Concrete Encasement, see sheet 9 of 11.  
 ② Space reinforcement in cap to miss dowel rods.  
 ③ The backwall and portion of the wingwalls above the mandatory construction joint shall be cast against the in-place beams.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	8	#5	41'-8"	—
h(K)	44	#5	10'-4"	—
p(E)	12	#7	41'-8"	—
s(E)	46	#5	11'-9"	□
s(K)	2	#5	11'-10"	□
u(E)	8	#6	11'-0"	□
v(E)	86	#5	4'-7"	—
v(K)	16	#5	6'-0"	—
v2(E)	10	#5	9'-8"	—
Structure Excavation		Cu. Yd.	84	
Concrete Structures		Cu. Yd.	22.4	
Concrete Encasement		Cu. Yd.	2.4	
Reinforcement Bars, Epoxy Coated		Pound	3,180	
Furnishing Steel Piles HPI2x53		Foot	522	
Driving Piles		Foot	522	
Test Pile Steel HPI2x53		Each	1	

FILE NAME: H:\P12016\Structural\Final Plans\Hypocastation\0826201-087-South Abutment Details.dgn  
 ILLINOIS DESIGN FIRM LICENSE NO. 104.001115



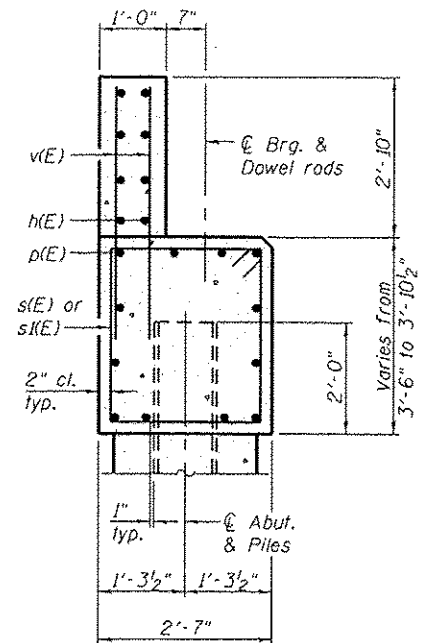
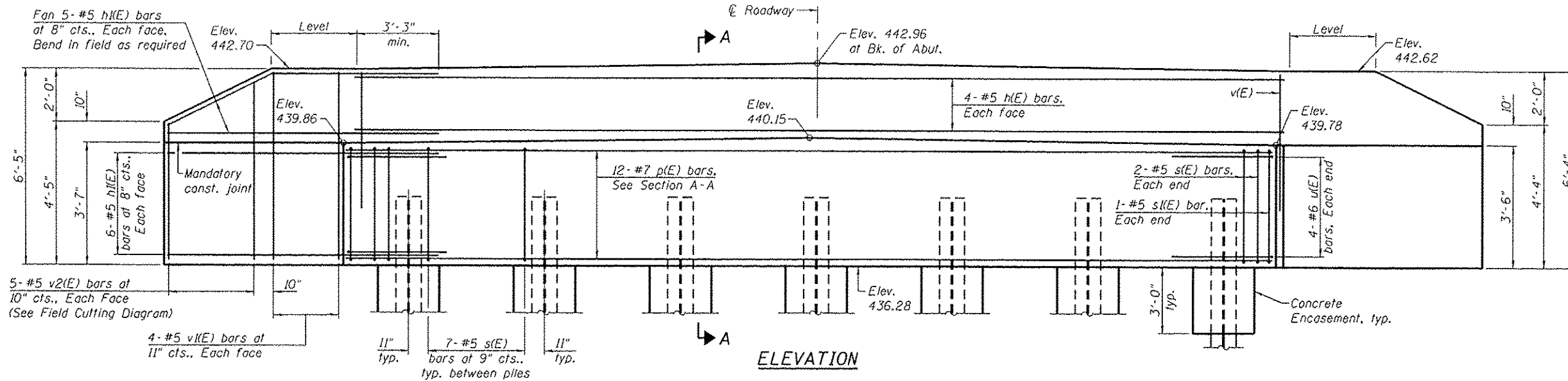
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PLOT SCALE :	CHECKED - KBC	REVISED -
PLOT DATE :	DRAWN - SJN	REVISED -
6/8/2015	CHECKED - KBC	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

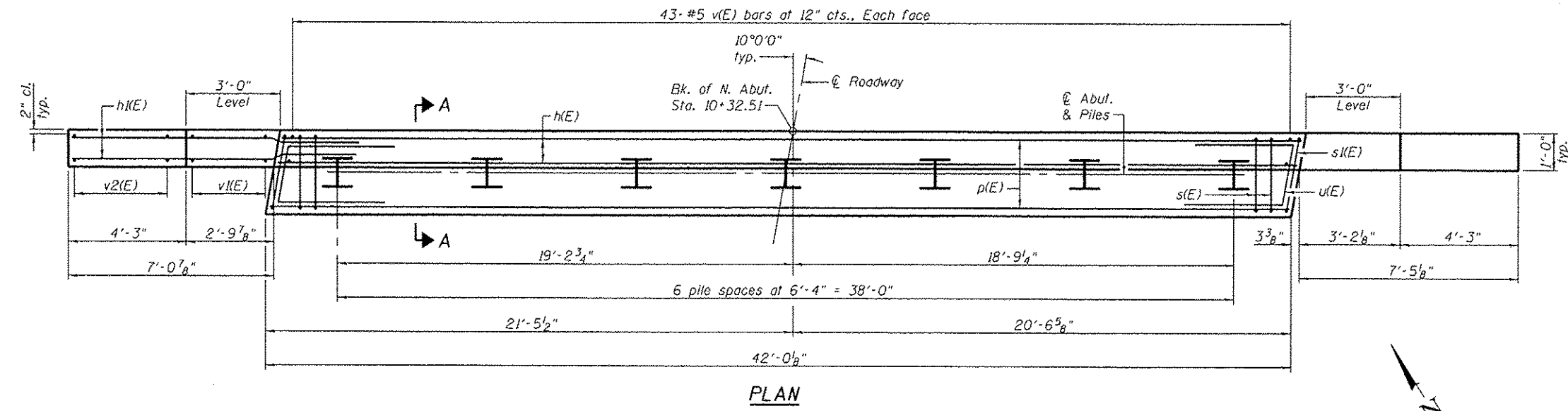
**SOUTH ABUTMENT DETAILS**  
**STRUCTURE NO. 082-6201**  
 SHEET NO. 7 OF 11 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00018-00-BR	ST. CLAIR	32	22
			CONTRACT NO. 97595
ILLINOIS FED. AID PROJECT			





**SECTION A-A**  
(Dimensions are at Rt. L's)



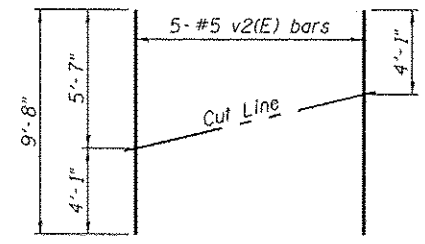
**PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	8	#5	41'-8"	—
h(E)	44	#5	10'-4"	—
p(E)	12	#7	41'-8"	—
s(E)	46	#5	11'-9"	□
s(K)	2	#5	11'-10"	□
u(E)	8	#6	11'-0"	⌋
v(E)	86	#5	4'-7"	—
v(K)	16	#5	6'-0"	—
v2(E)	10	#5	9'-8"	—
Structure Excavation		Cu. Yd.	80	
Concrete Structures		Cu. Yd.	22.4	
Concrete Encasement		Cu. Yd.	2.4	
Reinforcement Bars, Epoxy Coated		Pound	3,180	
Furnishing Steel Piles HP12x53		Foot	609	
Driving Piles		Foot	609	

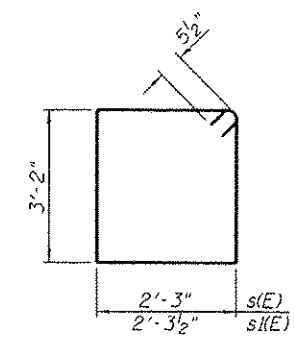
**PILE DATA**

Type: Steel HP12x53  
 Nominal Required Bearing: 419 kips  
 Factored Resistance Available: 230 kips  
 Est. Length: 87 ft  
 No. Production Piles: 7  
 No. Test Piles: 0

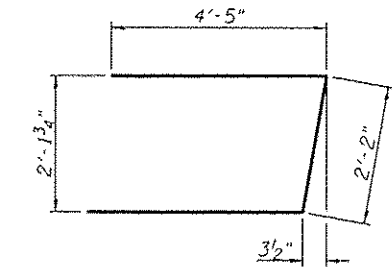


**FIELD CUTTING DIAGRAM**

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



**BARS s(E) & s(K)**



**BAR u(E)**

- Notes:
- For details of piles and Concrete Encasement, see sheet 9 of 11.
  - Space reinforcement in cap to miss dowel rods.
  - The backwall and portion of the wingwalls above the mandatory construction joint shall be cast against the in-place beams.

FILE NAME: H:\P12016\Structural\Final Plans\Microstation\B26201-008-North Abutment Details.dgn



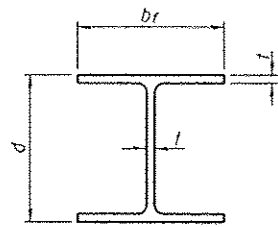
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PLLOT SCALE :	CHECKED -	KBC	REVISED -	
PLLOT DATE :	DRAWN -	SJN	REVISED -	
	CHECKED -	KBC	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS  
STRUCTURE NO. 082-6201

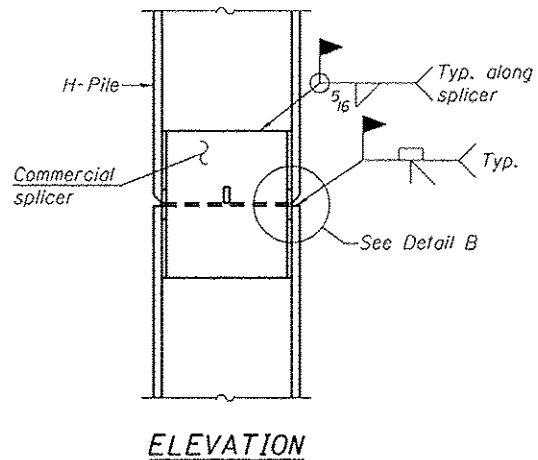
SHEET NO. 8 OF 11 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00018-00-BR	ST. CLAIR	33	23
			CONTRACT NO. 97595
ILLINOIS FED. AID PROJECT			

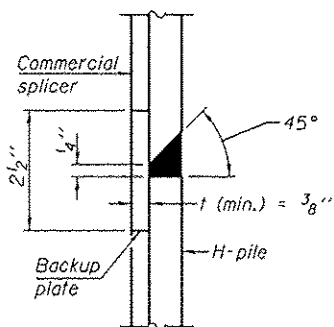


STEEL PILE TABLE

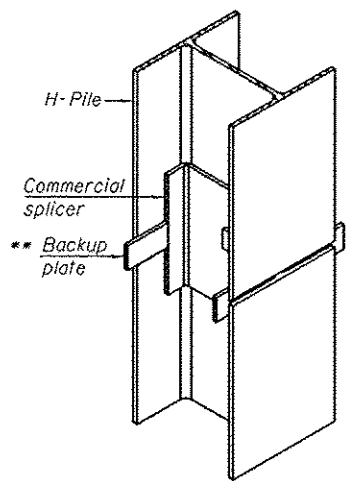
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

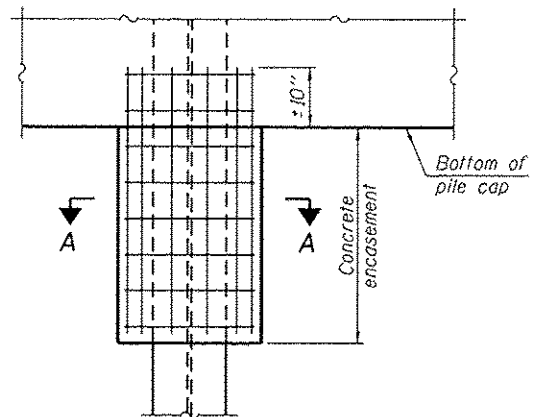


DETAIL "B"



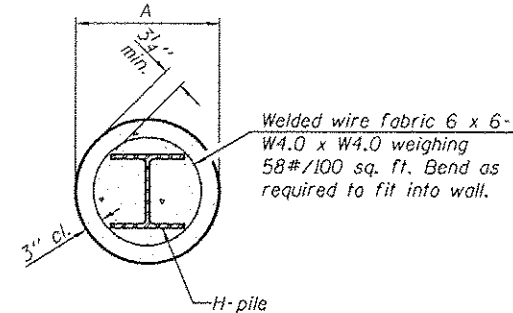
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



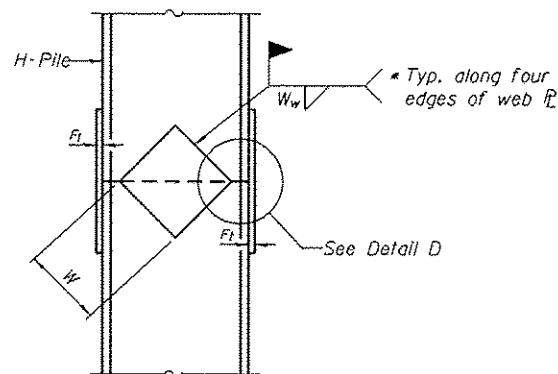
ELEVATION

PILE ENCASEMENT

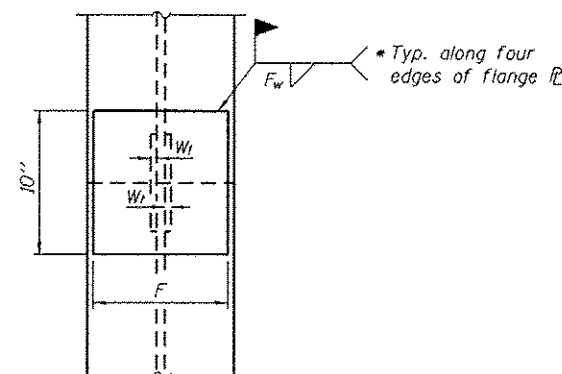


Note:  
Forms for encasement may be omitted when soil conditions permit.

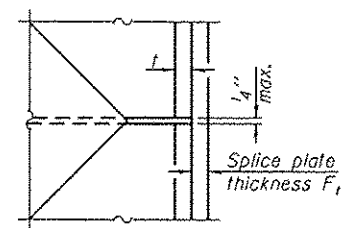
SECTION A-A



ELEVATION



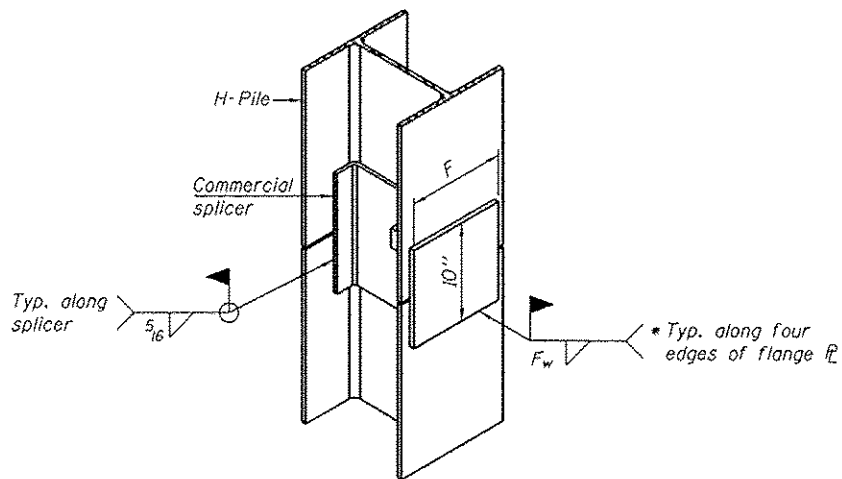
END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

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

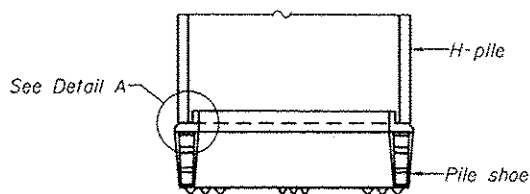


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

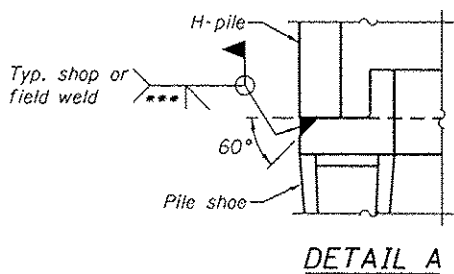
- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

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



ELEVATION

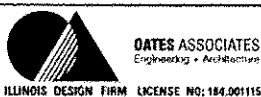
H-PILE SHOE ATTACHMENT



DETAIL A

F-HP

1-27-12



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

DESIGNED	REVISED
CHECKED	REVISED
DRAWN	REVISED
CHECKED	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 082-6201

SHEET NO. 9 OF 11 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00018-00-BR	ST. CLAIR	32	24
CONTRACT NO. 97595		ILLINOIS FED. AID PROJECT	

FILE NAME: H:\P1218\Structural\Final Plans\Microstation\0826201-00-F-HP Pile Details.dwg



### SOIL BORING LOG

ROUTE N/A DESCRIPTION Long Street Over Little Canteen Creek LOGGED BY SCI (JS)  
Caseyville, Illinois  
 SECTION 12-00018-00-BR LOCATION Proposed South Abutment, SEC. 7, TWP. 2N, RNG. 6W  
Northing 718227 Easting 2337326  
 COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	DEPTH	DESCRIPTION	SOIL CLASSIFICATION	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX	UNCONFINED COMPRESSIVE STRENGTH (ksf)	REMARKS
082-6201	10+00		Surface Water Elev. <u>N/A</u> ft						
			Stream Bed Elev. <u>Prop. 427.4</u> ft						
BORING NO.	Station	Offset	Groundwater Elev.:						
B-1	9+62	9 ft LT	First Encounter <u>427.1</u> ft ▼						
			Upon Completion <u>N/A</u> ft						
			After <u>N/A</u> Hrs. <u>N/A</u> ft						
			Ground Surface Elev. <u>443.1</u> ft						
			4" OIL AND CHIP ROAD						442.8
			FILL: Brown, silty loam, trace oil and chip, A-4						
			LL=32, PI=9						
			Becomes brown and gray						
			Trace iron nodules						
			Trace coal						
			Unconsolidated-Undrained Triaxial Compression Test performed						
			With iron stains						
			Becomes dark gray, trace gravel and organics						
			With glass						
			SILTY CLAY LOAM: Greenish gray, trace clay layers, A-6						426.8
			SILTY LOAM: Greenish gray, trace organics, A-4						425.1

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



### SOIL BORING LOG

ROUTE N/A DESCRIPTION Long Street Over Little Canteen Creek LOGGED BY SCI (JS)  
Caseyville, Illinois  
 SECTION 12-00018-00-BR LOCATION Proposed South Abutment, SEC. 7, TWP. 2N, RNG. 6W  
Northing 718227 Easting 2337326  
 COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	DEPTH	DESCRIPTION	SOIL CLASSIFICATION	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX	UNCONFINED COMPRESSIVE STRENGTH (ksf)	REMARKS
082-6201	10+00		Surface Water Elev. <u>N/A</u> ft						
			Stream Bed Elev. <u>Prop. 427.4</u> ft						
BORING NO.	Station	Offset	Groundwater Elev.:						
B-1	9+62	9 ft LT	First Encounter <u>427.1</u> ft ▼						
			Upon Completion <u>N/A</u> ft						
			After <u>N/A</u> Hrs. <u>N/A</u> ft						
			Ground Surface Elev. <u>443.1</u> ft						
			SAND: Brown, fine, trace iron nodules, A-3 (continued)						
			2" silt layer						
			Becomes fine to coarse, trace gravel						
			With clay layers						
			SILTY LOAM: Brown, A-4						393.9
			SANDY LOAM: Gray, trace coal, A-2						391.1
			GRAVELLY CLAY LOAM: Gray, trace coal and organics, A-6						389.1
			Boring terminated at 55.0 ft.						388.1
			Boring grouted to 55.0 ft.						
			Boring grouted to 55.0 ft.						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

FILE NAME = H:\P\1218\Structural\Final Plans\Microstation\0826201-010-Soil Boring Log.dgn



USER NAME :	DESIGNED -	REVISED -
PLOT SCALE :	CHECKED -	REVISED -
PLOT DATE = 6/8/2015	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
 STRUCTURE NO. 082-6201

SHEET NO. 10 OF 11 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00018-00-BR	ST. CLAIR	32	25
		CONTRACT NO. 97595	
ILLINOIS FED. AID PROJECT			



# SOIL BORING LOG

Page 1 of 3  
Date 06/20/13

ROUTE N/A DESCRIPTION Long Street Over Little Canteen Creek  
Caseyville, Illinois LOGGED BY SCI (JS)  
SECTION 12-00018-00-BR LOCATION Proposed North Abutment, SEC. 7, TWP. 2N, RNG. 8W  
Northing 718273 Easting 2337252  
COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNCONSOLIDATED	UNDRAINED	TRIAxIAL COMPRESSION TEST
082-6201	10+00	B-2	10+45	14 ft RT	442.2							
4" OIL AND CHIP ROAD												
FILL: Brown, silty loam, trace oil and chip, A-4												
					441.9	5	3.3	19				
						6	P					
						1	0.7	22				
						2	S/5					
						3	0.8	18				
						3	S/5					
Trace coal												
					434.2	3	0.8	24				
						4	0.8	24				
						2	S/10					
SILTY LOAM: Gray, with iron stains, trace roots, A-4												
					412.2	1	0.5	24				
						1	B					
Trace sand layers and shells												
					412.2	1	0.5	24				
						1	B					
SAND: Gray, fine, with iron stains and silty loam layers, A-3												
					429.2	2	0.6	26				
						3	S/15					
SANDY LOAM: Gray, with iron stains and nodules, A-2												
					428.2	1	NC	24				
						2	0.5	26				
						2	B					
SILTY CLAY LOAM: Brown and gray, A-6												
					424.5	1	0.5	29				
						1	S/6.3					
SILTY LOAM: Brown and gray, A-4												
						3	1.0	36				
						1	P	34				
Unconsolidated-Undrained Triaxial Compression Test performed												

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Page 2 of 3  
Date 06/20/13

ROUTE N/A DESCRIPTION Long Street Over Little Canteen Creek  
Caseyville, Illinois LOGGED BY SCI (JS)  
SECTION 12-00018-00-BR LOCATION Proposed North Abutment, SEC. 7, TWP. 2N, RNG. 8W  
Northing 718273 Easting 2337252  
COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNCONSOLIDATED	UNDRAINED	TRIAxIAL COMPRESSION TEST
082-6201	10+00	B-2	10+45	14 ft RT	442.2							
SILTY LOAM: Brown and gray, A-4 (continued)												
					401.2	0.6	B		<0.25	22		
						1	0.2	29				
						1	B					
With iron stains Washed Sieve Analysis performed, % Finer = 84.6% With iron nodules												
						3	0.3	27				
						2	B					
Becomes gray Begin mud rotary after 23.5-25 ft. sample												
						4	0.5	23				
						3	S/15					
Trace coal												
					395.2	5	NC	24				
						4	NC	24				
SANDY LOAM: Gray, A-2												
						5	NC	24				
						4	NC	24				
With siltstone fragments												
						7	NC	24				
						11	NC	20				
						13	1.0	23				
						13	S/10					
SILTY LOAM: Gray, A-4												
					367.2	6	0.5	25				
						5	B					
						4	B					
CLAY LOAM: Brownish gray, with limestone and siltstone fragments, trace coal, A-4 (continued)												
						10	NC	24				
						11	NC	24				
GRAVELLY CLAY LOAM: Brownish gray, A-6												
						5	10	0.6	B	26		
						10	11	B	3.3	P		
Hard drilling 61-63.5 ft.												
						6	7	1.4	B	19		
						7	10	B	3.3	P		
CLAY: Brownish gray, trace sandstone and limestone gravels, A-7												
						10	10	B	3.3	P		
SILT: Gray, trace clay layers, A-4												
						5	10	0.6	B	26		
						10	11	B	3.3	P		
GRAVELLY CLAY LOAM: Brownish gray, A-6												
						5	10	0.6	B	26		
						10	11	B	3.3	P		
SHALEY CLAY: Bluish gray, with fine sand, A-6												
						6	7	2.5	S/15	18		
						9	9	S/15				
CLAYEY SHALE: Bluish gray, with shale layers												
						20	20	4.5	S/10	14		
						5	5	4.5	S/10	14		
Hard drilling 75-76.5 ft.												
						6	5	4.5	S/10	14		
						4	4	B				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Page 3 of 3  
Date 06/20/13

ROUTE N/A DESCRIPTION Long Street Over Little Canteen Creek  
Caseyville, Illinois LOGGED BY SCI (JS)  
SECTION 12-00018-00-BR LOCATION Proposed North Abutment, SEC. 7, TWP. 2N, RNG. 8W  
Northing 718273 Easting 2337252  
COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNCONSOLIDATED	UNDRAINED	TRIAxIAL COMPRESSION TEST
082-6201	10+00	B-2	10+45	14 ft RT	442.2							
SHALE: Gray												
						5	7	>4.5	P	13		
Boring terminated at 86.2 ft.												
						5	7	>4.5	P	13		
Boring grouted to 86.2 ft.												
						5	7	>4.5	P	13		
Boring grouted to 86.2 ft.												

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

FILE NAME = H:\P\1216\Structural\Final Plans\Structure\0826201-011-Soil Boring Log.dgn



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PLOT SCALE :	CHECKED -	REVISED -
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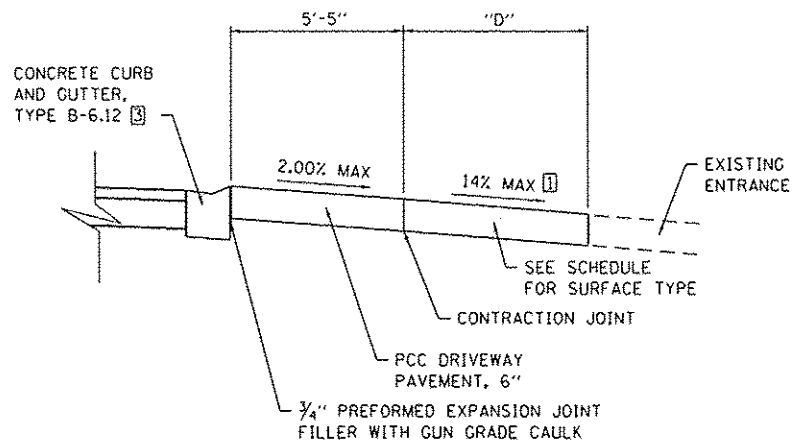
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 082-6201

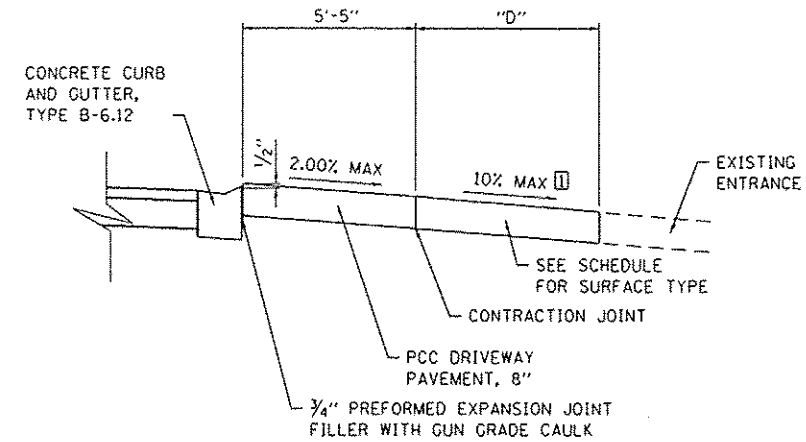
SHEET NO. 11 OF 11 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00018-00-BR	ST. CLAIR	32	26
CONTRACT NO. 97595			

ILLINOIS FED. AID PROJECT



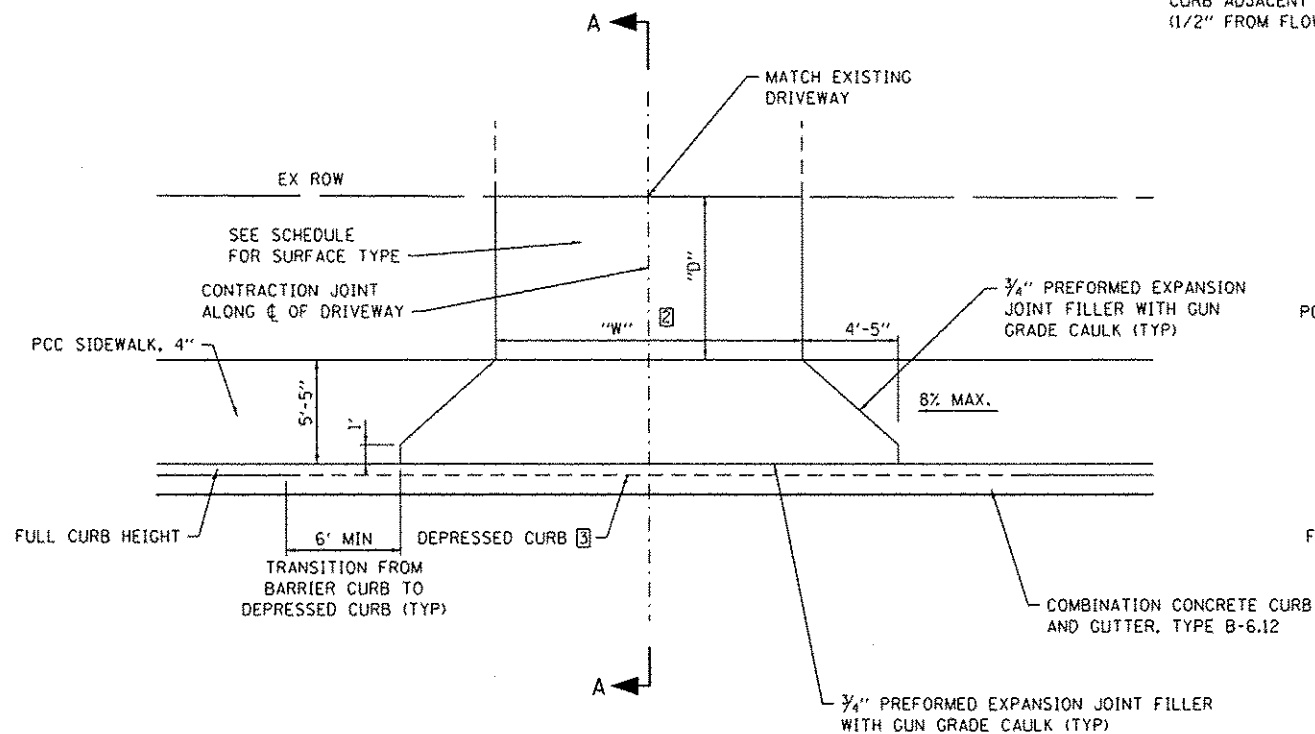
**SECTION A-A**  
(NOT TO SCALE)



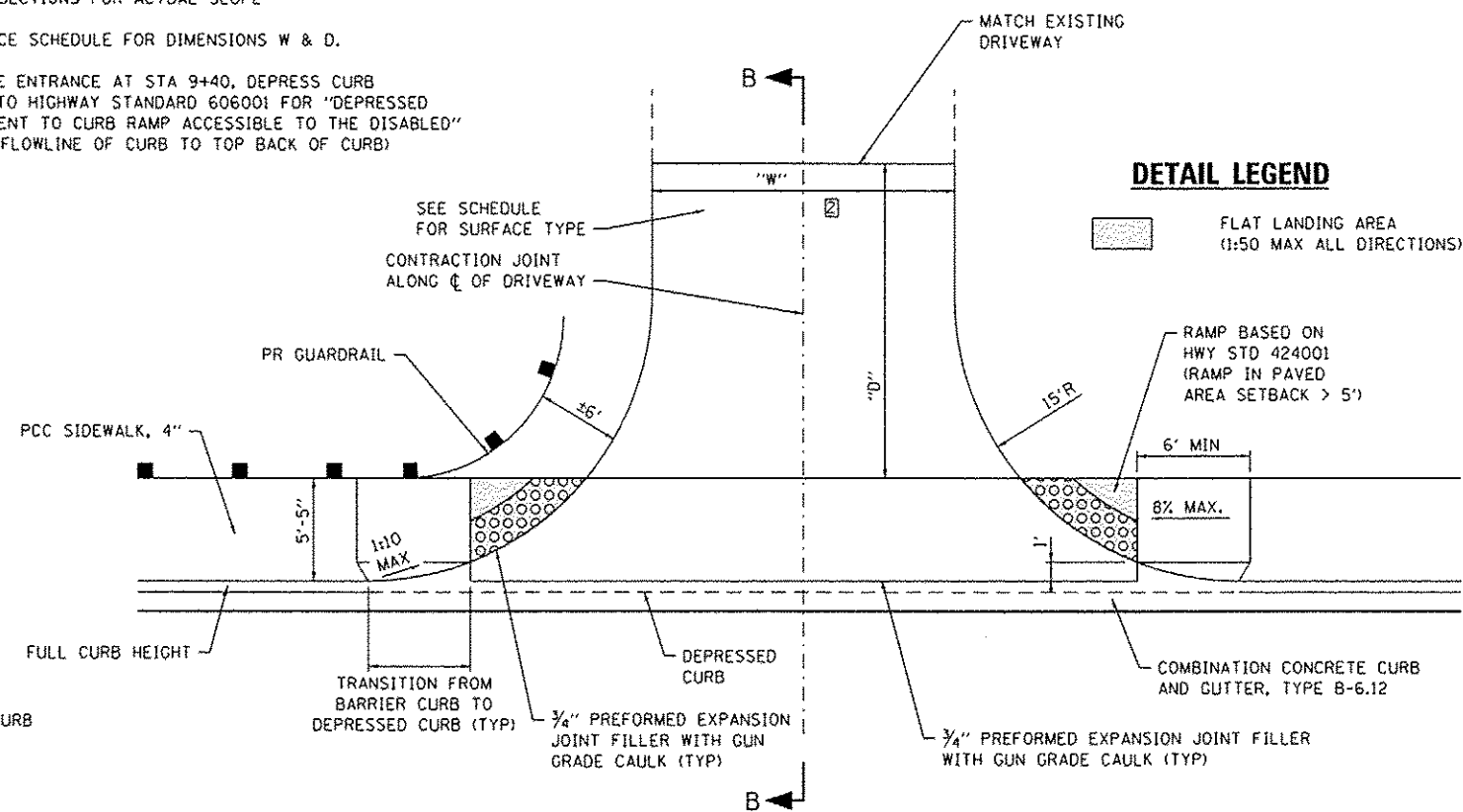
**SECTION B-B**  
(NOT TO SCALE)

**NOTES:**

- ① SEE CROSS SECTIONS FOR ACTUAL SLOPE
- ② SEE ENTRANCE SCHEDULE FOR DIMENSIONS W & D.
- ③ FOR PRIVATE ENTRANCE AT STA 9+40, DEPRESS CURB ACCORDING TO HIGHWAY STANDARD 606001 FOR "DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED" (1/2" FROM FLOWLINE OF CURB TO TOP BACK OF CURB)



**PRIVATE ENTRANCE DETAIL**  
(NOT TO SCALE)



**WATER STREET DETAIL**  
(NOT TO SCALE)

**DETAIL LEGEND**

FLAT LANDING AREA  
(1:50 MAX ALL DIRECTIONS)

FILE NAME: H:\P\12015\Microstation\CADD Sheets\0812815-INT-DETAIL.dgn



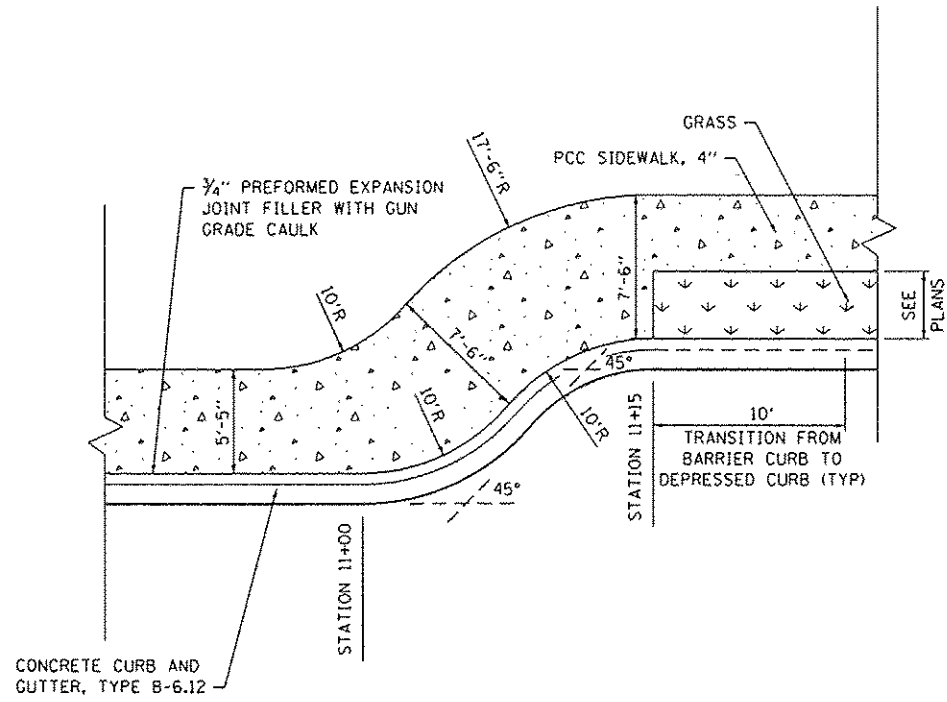
USER NAME: moisie.graser	DESIGNED: -	REVISED: -
PLOT SCALE: 40,0000' / 1"	DRAWN: -	REVISED: -
PLOT DATE: 6/15/2015	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

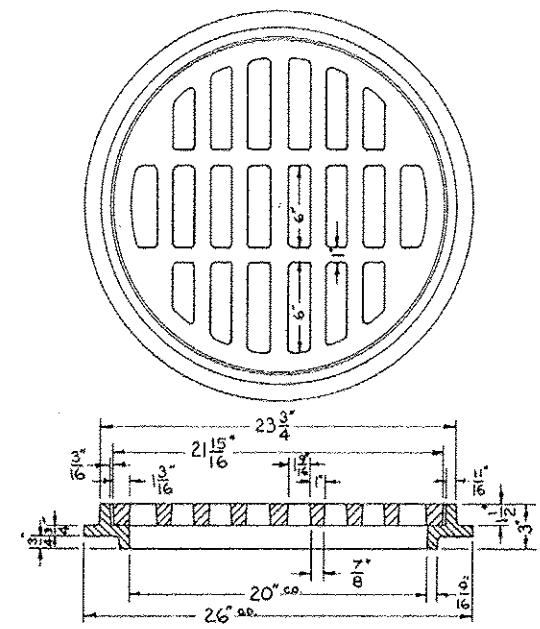
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	27
CONTRACT NO. 97595				
[ILLINOIS] FED. AID PROJECT				



**CURB BUMP OUT DETAIL**  
(NOT TO SCALE)

**NOTES:**

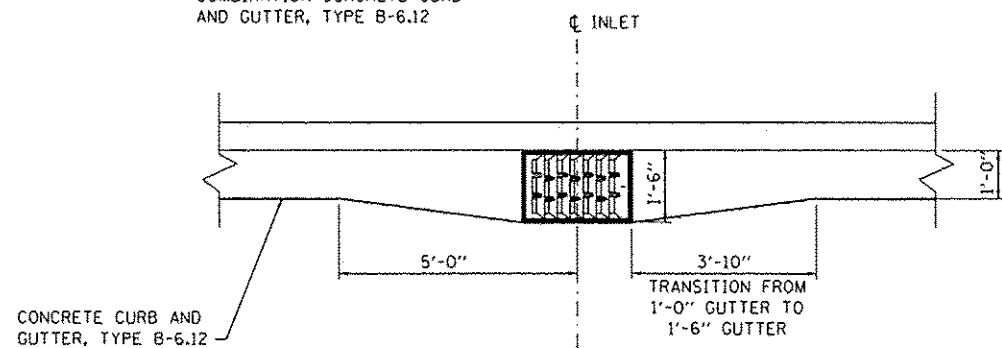
1. THE REQUIRED CASTING SHALL BE A HEAVY-DUTY FRAME AND GRATE.



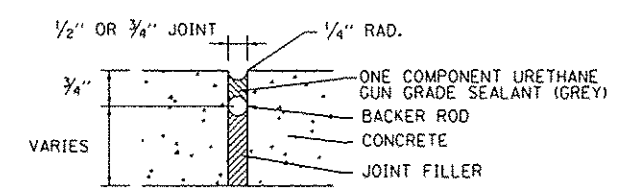
**SPECIAL FRAME AND GRATE DETAIL**  
(NOT TO SCALE)

**NOTES:**

1. TRANSITIONS SHALL BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12



**GUTTER TRANSITION AT TYPE 23 FRAME & GRATE**  
(NOT TO SCALE)



**EXPANSION JOINT DETAIL**  
(NOT TO SCALE)

FILE NAME = H:\P\12018\Microstation\12000\_Sheets\0812018\_vht-detailed.dgn

**OATES ASSOCIATES**  
Engineering • Architecture

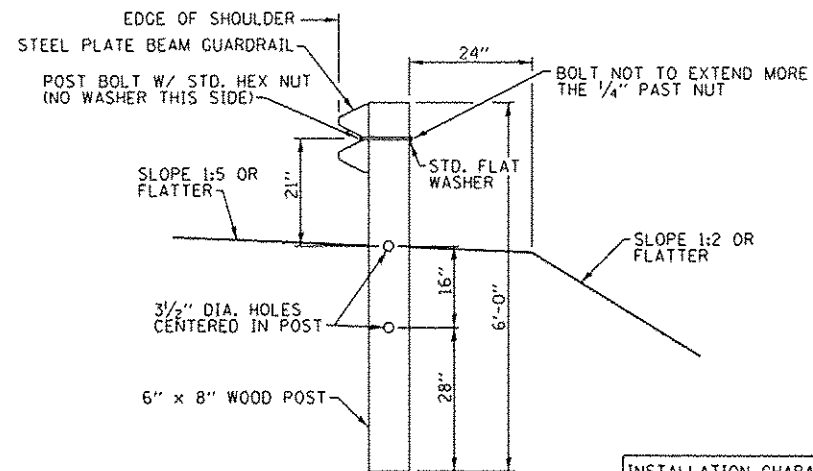
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

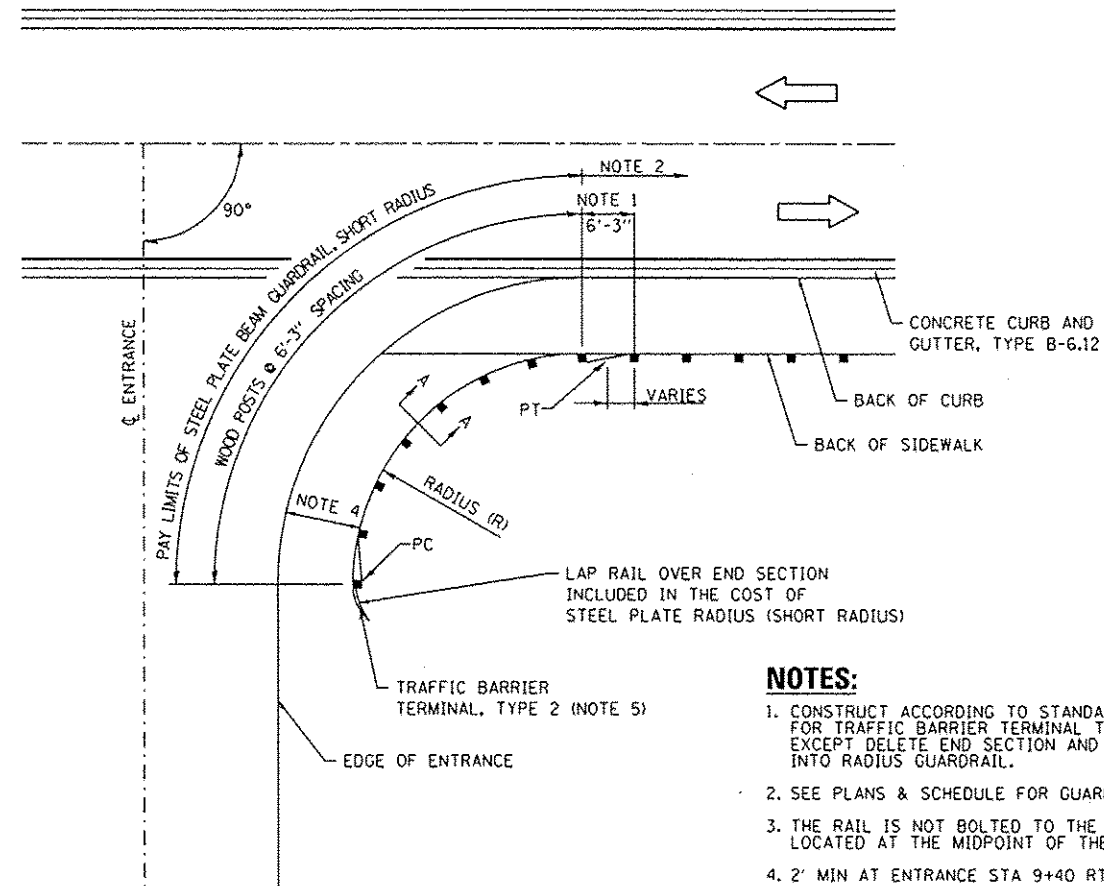
<b>CONSTRUCTION DETAILS</b>			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	28
CONTRACT NO. 97595				
ILLINOIS FED. AID PROJECT				



**SECTION A-A**  
NOT TO SCALE

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS	
R	NO. OF WOOD POSTS
8'-6"	5 (NOTE 3)



**PLAN VIEW**  
NOT TO SCALE

**NOTES:**

1. CONSTRUCT ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL TYPE 2, EXCEPT DELETE END SECTION AND SPLICE INTO RADIUS GUARDRAIL.
2. SEE PLANS & SCHEDULE FOR GUARDRAIL PAYMENT TYPE.
3. THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.
4. 2' MIN AT ENTRANCE STA 9+40 RT, ±6' AT ENTRANCE STA 10+63 LT.
5. THE COST OF TRAFFIC BARRIER TERMINAL, TYPE 2 SHALL BE INCLUDED IN THE COST OF STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS)

**STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS)**  
NOT TO SCALE

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

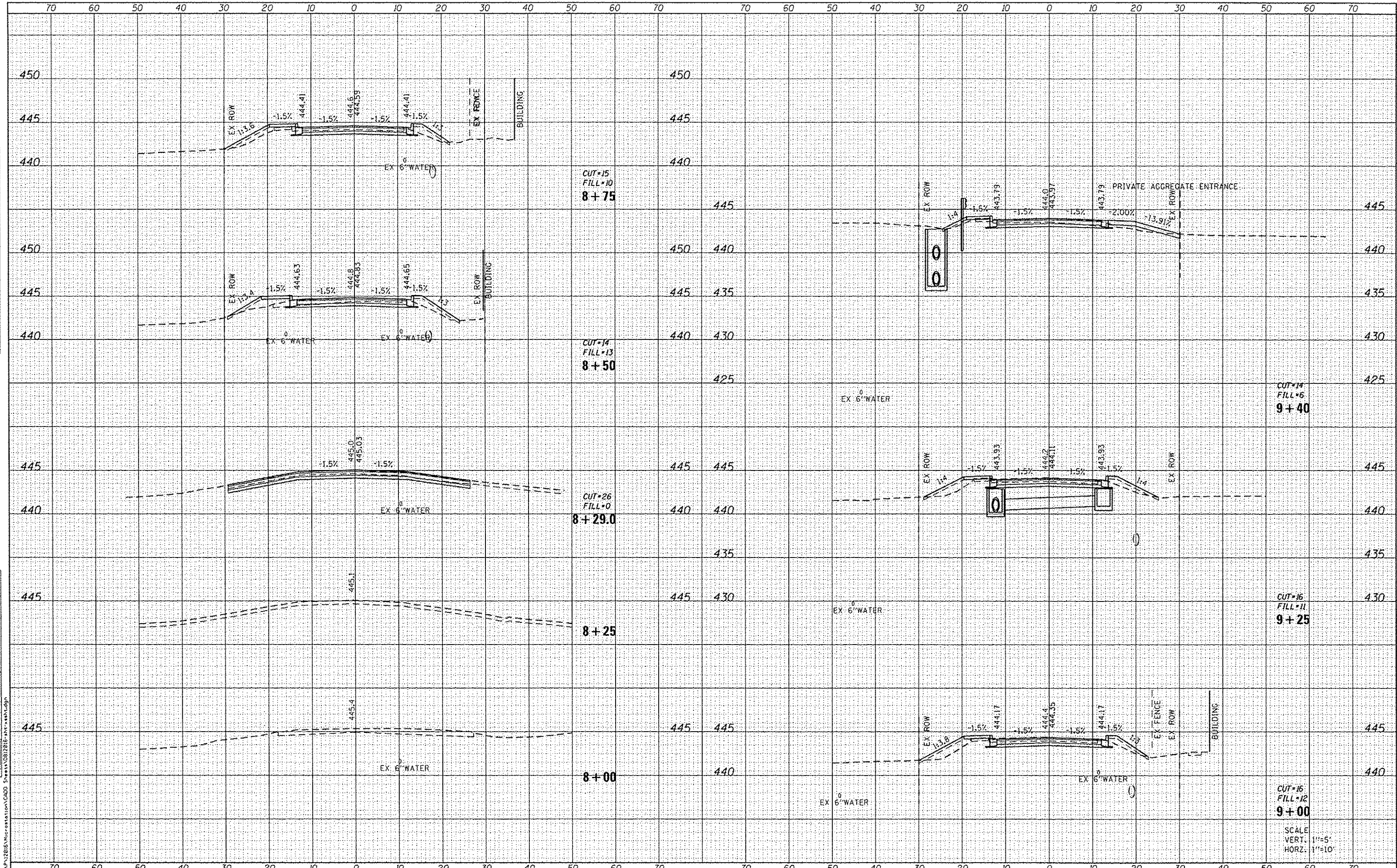
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	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	29
CONTRACT NO. 97595				
ILLINOIS FED. AID PROJECT				





DATE	
BY	
NO.	
FINAL SURVEY	
ADJUSTED	
NOTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
ADJUSTED	
NOTED	
TEMPLATE	
AREAS	
CHECKED	

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Engineering • Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

USER NAME: maise.graser  
DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISOR -  
REVISION -  
REVISION -  
REVISION -

PLOT SCALE: 20,0000' / 1" / 10"  
PLOT DATE: 6/15/2015

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

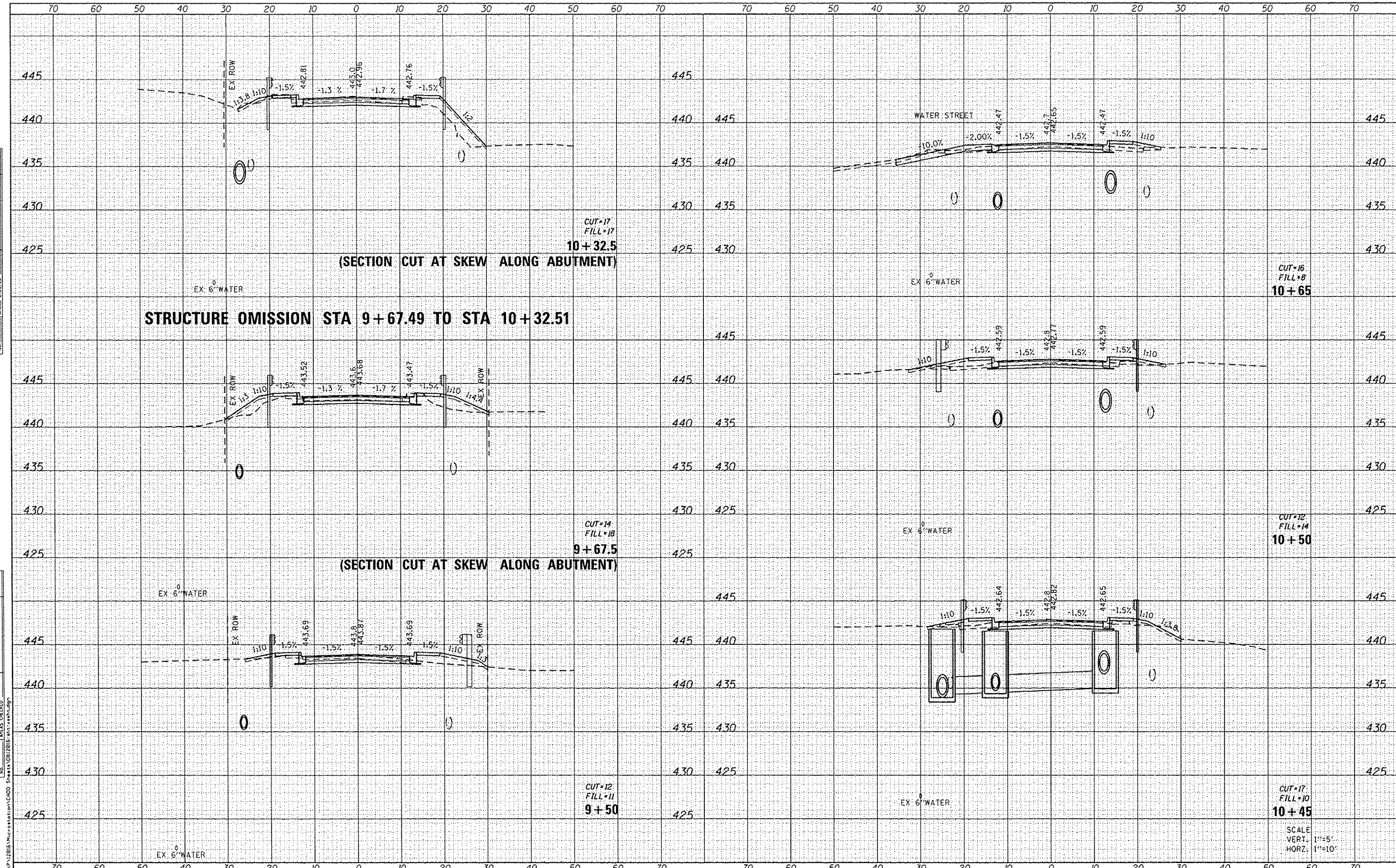
**CROSS SECTIONS**

SCALE: SHEET 1 OF 3 SHEETS STA. 8+00 TO STA. 9+40

F.A.U. R.Y.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	30
CONTRACT NO. 97595				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO.	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



**STRUCTURE OMISSION STA 9+67.49 TO STA 10+32.51**

CUT=17  
FILL=17  
10+32.5

(SECTION CUT AT SKEW ALONG ABUTMENT)

CUT=16  
FILL=8  
10+65

CUT=14  
FILL=18  
9+67.5

(SECTION CUT AT SKEW ALONG ABUTMENT)

CUT=12  
FILL=14  
10+50

CUT=12  
FILL=11  
9+50

CUT=17  
FILL=10  
10+45

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



USER NAME = maissa.greer  
DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

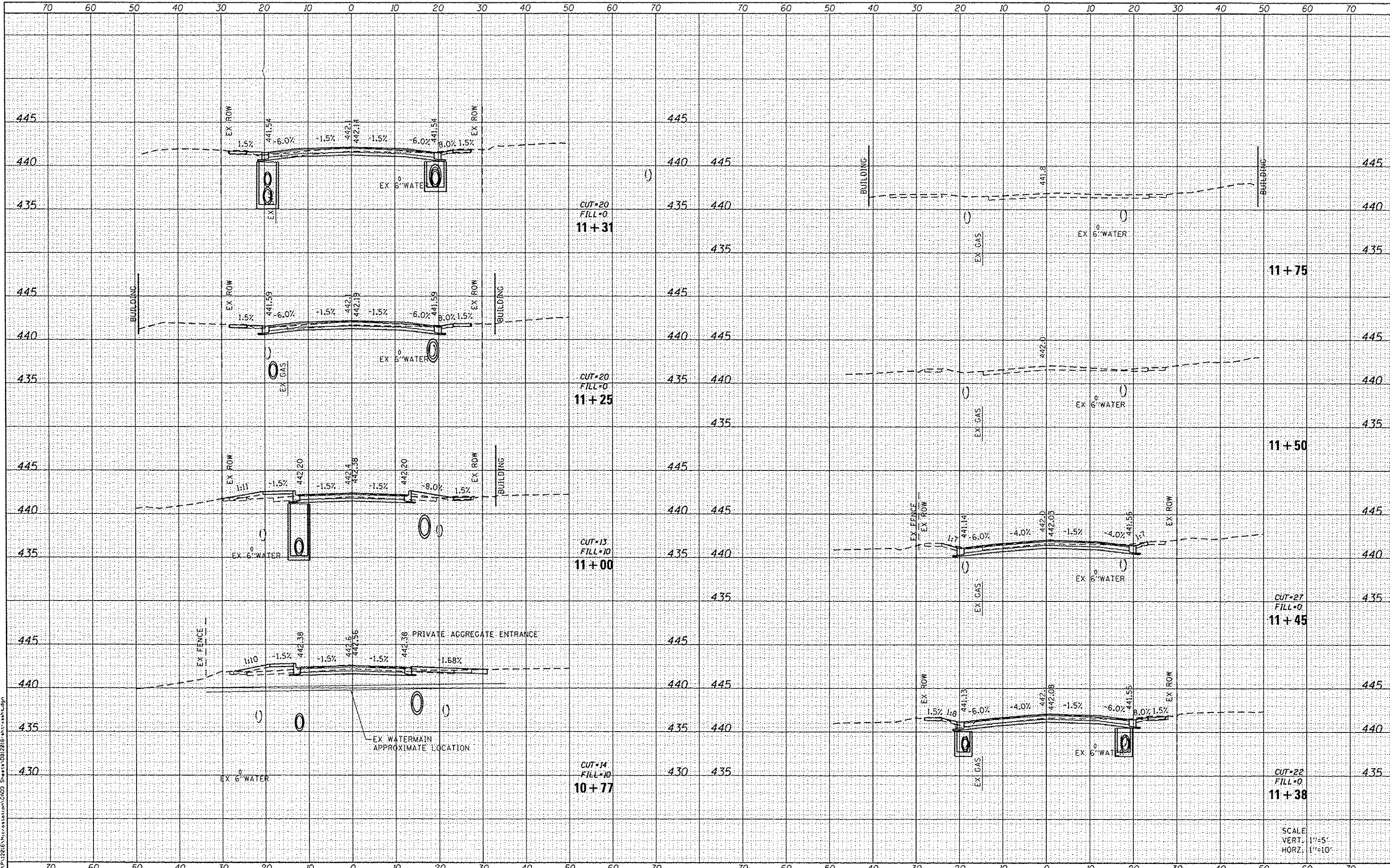
CROSS SECTIONS  
SCALE: SHEET 2 OF 3 SHEETS STA. 9+50 TO STA. 10+65


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	31
CONTRACT NO. 97595				
ILLINOIS FED. AID PROJECT				



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DATE	
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**GATES ASSOCIATES**  
 Engineering + Architecture  
 ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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PLOT DATE : 6/15/2015	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET 3 OF 3 SHEETS	STA. 10+77 TO STA. 11+75
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00018-00-BR	ST. CLAIR	32	32
CONTRACT NO. 97595				
[ILLINOIS] FED. AID PROJ. CT				

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