

PROJECT LOCATED IN UNINCORPORATED WILL COUNTY IN THE TOWNSHIP OF CUSTER, JUST SOUTH OF THE CITY OF WILMINGTON

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

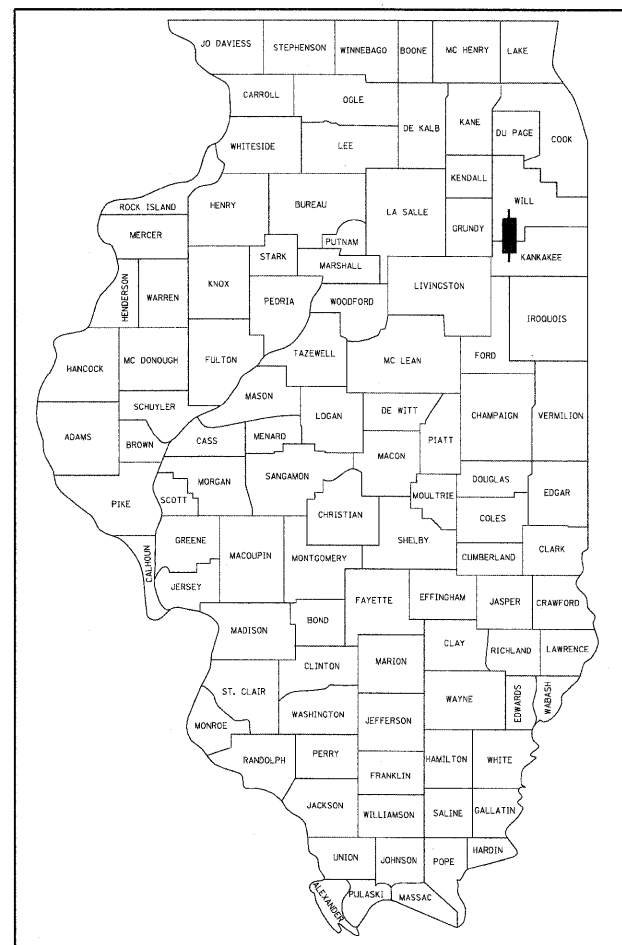
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0327	112 T-2	WILL	22	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60J17		

D-91-198-10 * 22+1 = 23

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS
2-BARREL BOX CULVERT
REPLACEMENT PROJECT

FAU ROUTE 327 (WEST RIVER ROAD) OVER
UNNAMED TRIBUTARY TO KANKAKEE RIVER
(0.1 MI. NORTH OF IL ROUTE 113)
SECTION 112 T-2
WILL COUNTY
C-91-198-10

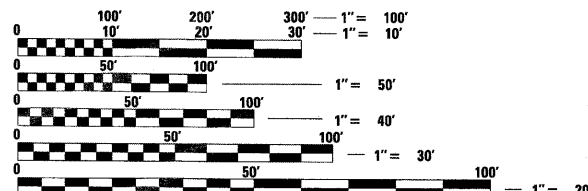


LOCATION OF SECTION INDICATED THUS: - [Symbol] -

DESIGN DESIGNATION
MINOR ARTERIAL (URBAN)
ADT 2650 (2008)
SPEED LIMIT 55 MPH

THE PROPOSED WORK TO BE PERFORMED CONSISTS OF REMOVING THE EXISTING 12'x5.5' CULVERT AT STATION 82+55.73, AND REPLACING THE EXISTING STRUCTURE WITH A NEW 8'x8' DOUBLE-BARREL PRE-CAST CONCRETE BOX CULVERT, REMOVE EXISTING 36" CMP THAT DRAINS DITCH IN NORTHEAST QUADRANT OF IL RT 113 AND WEST RIVER ROAD AND GRADE NEW DITCH TO DRAIN INTO EAST SIDE OF CULVERT, REMOVE 18" CMP SOUTHWEST OF CULVERT, INSTALL MANHOLE TO DRAIN 40' OF DITCH NORTH OF SOUTH DRIVEWAY ON WEST SIDE OF ROADWAY, INSTALL 24" STORM SEWER FROM MANHOLE TO DRAIN INTO WEST SIDE OF CULVERT, AND RECONSTRUCT ROADWAY WITH A WIDER PAVED SHOULDER UTILIZING NON-PHASED DEMOLITION AND CONSTRUCTION. THE EXISTING STRUCTURE NUMBER IS 099-0350.

THE PROPOSED STRUCTURE NUMBER IS SN 099-0520.

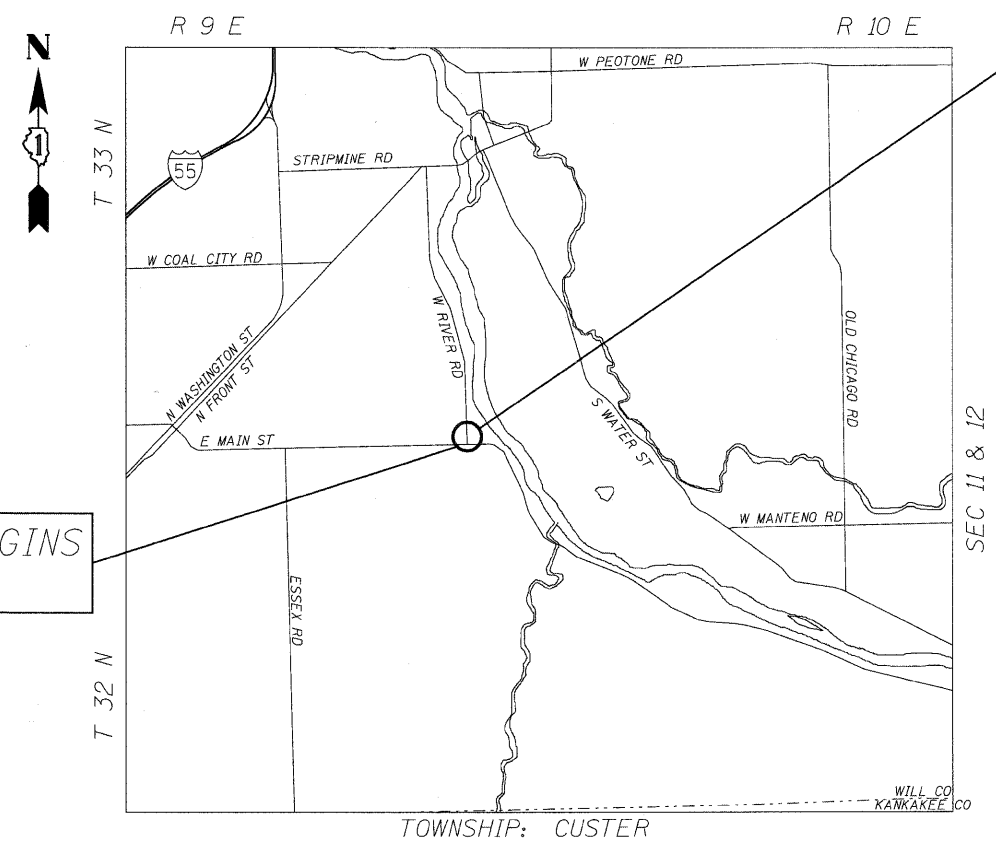


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT MANAGER: KIM HARVEY (847) 705-4055
PROJECT ENGINEER:

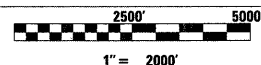
CONTRACT NO. 60J17



PROJECT ENDS
STA. 84+20

PROJECT BEGINS
STA. 81+40

LOCATION MAP



NET AND GROSS LENGTH OF PROJECT = 280' = 0.053 MI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 25, 2010

Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 13, 2010
Scott E. Stitt, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

August 13, 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

LOCO, INC.
CONSULTING ENGINEERS
1560 WALL ST., SUITE 222
NAPEVILLE, ILLINOIS 60563 Ph: 16301 577-9100

Walters
REGISTERED PROFESSIONAL ENGINEER
ILLINOIS
EX. 11-30-10 EX. 11-30-11

STATE STANDARDS

SHEET NO. TITLE

1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-7	TYPICAL SECTIONS
8	PLAN AND PROFILE
9	DRAINAGE PLAN AND PROFILE
10	DETOUR PLAN
11	PAVEMENT MARKING PLAN
12	EROSION CONTROL PLAN
13	GENERAL PLAN & ELEVATION
14-15	HEADWALL DETAILS
16-17	WINGWALL DETAILS
18	CROSS SECTIONS
19	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
20	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-FLOW RESISTANT) (TC-11)
21	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
22	ARTERIAL ROAD INFORMATION SIGN (TC-26)
22A.	PLAT OF HIGHWAYS HIGHWAY STANDARDS

SHEET NO. TITLE

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT REBARS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND CLASS D PATCHES
515001-03	NAME PLATE FOR BRIDGE
542101-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) TRHU 36" (900 mm) DIA. AT RIGHT ANGLES WITH ROADWAY
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
602401-02	MANHOLE TYPE A
604001-03	FRAME AND LIDS TYPE 1
630001-08	STEEL PLATE BEAM GUARDRAIL
630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERT
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
664001-02	CHAIN LINK FENCE
701301-03	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGN & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

ALL ELEVATIONS ARE BASED ON UNITED STATES COAST AND GEODETIC SURVEY DATUM.

DIMENSIONS ARE IN ENGLISH UNITS UNLESS OTHERWISE NOTED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED).

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT LISTED IN THE PLANS WITH THE LATEST NUMBERS.

DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL DEPOSITS THAT OBSTRUCT THE FLOW OF WATER IN DRAINING THE AREA SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES (NEW AND EXISTING) SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING PROPERTIES.

THE RESIDENT ENGINEER SHALL CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (847) 715-8428 AT LEAST 72 HOURS PRIOR TO FINAL PAVEMENT MARKING INSTALLATION.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

ALL WORK IS TO BE COMPLETED WITHIN 30 WORKING DAYS.

SUMMARY OF QUANTITIES			100% STATE			SUMMARY OF QUANTITIES			100% STATE		
CODE NO.	ITEM	UNIT	URBAN TOTAL	ROADWAY 1000-2A	BOX CULVERT X028-2A	CODE NO.	ITEM	UNIT	URBAN TOTAL	ROADWAY 1000-2A	BOX CULVERT X028-2A
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	48	48		40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	108	108	
20200100	EARTH EXCAVATION	CU YD	1110	4	1096	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	30	30	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	212		212	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	59	59	
X2090210	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	212		212	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	129	129	
21101815	COMPOST FURNISH AND PLACE, 4"	SQ YD	1263	1263		44000100	PAVEMENT REMOVAL	SQ YD	173	173	
25000310	SEEDING, CLASS 4	ACRE	0.3	0.3		44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	467	467	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23		44004250	PAVED SHOULDER REMOVAL	SQ YD	186	128	58
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23		44002211	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 3/4"	SQ YD	195	195	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23		44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	45	45	
25100630	EROSION CONTROL BLANKET	SQ YD	1263	1263		44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	60	60	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	27	27		44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	90	90	
28000305	TEMPORARY DITCH CHECKS	FOOT	66	66		48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	35	35	
28000400	PERIMETER EROSION BARRIER	FOOT	870	870		48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	461	427	34
28000510	INLET FILTERS	EACH	2	2		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
28100109	STONE RIPRAP, CLASS A5	SQ YD	243		243	50105220	PIPE CULVERT REMOVAL	FOOT	124	124	
28200200	FILTER FABRIC	SQ YD	407		407	50200100	STRUCTURE EXCAVATION	CU YD	587		587
35501300	HOT-MIX ASPHALT BASE COURSE, 4"	SQ YD	496	496		50300300	PROTECTIVE COAT	SQ YD	17		17
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1	1		50800105	REINFORCEMENT BARS	POUND	3600		3600
40600300	AGGREGATE (PRIME COAT)	TON	1	1		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	250		250
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	21	21							

* SPECIALTY ITEMS

LOCO INC.
CONSULTING ENGINEERS
1560 WALL ST. SUITE 222
NAPERVILLE, ILLINOIS 60563 PH (630) 577-9100

DESIGNED - MJY	REVISED -
DRAWN - ST, TSC	REVISED -
CHECKED - SLV	REVISED -
DATE - 06/25/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
WEST RIVER ROAD OVER UNNAMED TRIBUTARY (0.1 MI N OF IL RT 113)**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. 81+40 TO STA. 84+20

F.A.U. RTE. 0327	SECTION 112 T-2	COUNTY WILL	TOTAL SHEETS 22	SHEET NO. 3
D-91-198-10		CONTRACT NO. 60J17		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES			100% STATE			SUMMARY OF QUANTITIES			100% STATE		
CODE NO.	ITEM	UNIT	URBAN TOTAL	ROADWAY 1000-2A	BOX CULVERT X028-2A	CODE NO.	ITEM	UNIT	URBAN TOTAL	ROADWAY 1000-2A	BOX CULVERT X028-2A
51500100	NAME PLATES	EACH	1		1	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16	16	
54003000	CONCRETE BOX CULVERTS	CU YD	59		59	70400100	TEMPORARY CONCRETE BARRIER	FOOT	60	60	
54010808	PRECAST CONCRETE BOX CULVERTS 8'X8'	FOOT	133		133	* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1120	1120	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1		* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16	12	4
550A0410	STORM SEWERS, CLASS A, TYPE 2, 24"	FOOT	54	54		* 78200200	BIDIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	62		62	* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
60109580	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	80		80	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	16	12	4
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1		Z0030850	TEMPORARY INFORMATIONAL SIGNING	SQ FT	52	52	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	139	139		X0322641	TEMPORARY CLEAR WATER DIVERSION	L SUM	1		1
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	20		20	Z0023602	GRANULAR CULVERT BACKFILL	CU YD	1687		1687
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		XX006066	SIGN TO BE RELOCATED	EACH	2	2	
* Z0029310	GUARD RAIL REMOVAL, ATTACHED TO STRUCTURE	FOOT	12		12	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	232		232
63200310	GUARD RAIL REMOVAL	FOOT	138	138		Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* 66400505	CHAIN LINK FENCE, 8'	FOOT	94	73	21	* Z0064800	SELECTIVE CLEARING	UNIT	1	1	
66410300	CHAIN LINK FENCE REMOVAL	FOOT	113	99	14						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5							
67100100	MOBILIZATION	L SUM	1	1							
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1							
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	30							

* SPECIALTY ITEMS

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CONSULTING ENGINEERS
1560 WALL ST. SUITE 222
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

DESIGNED - MJY	REVISED -
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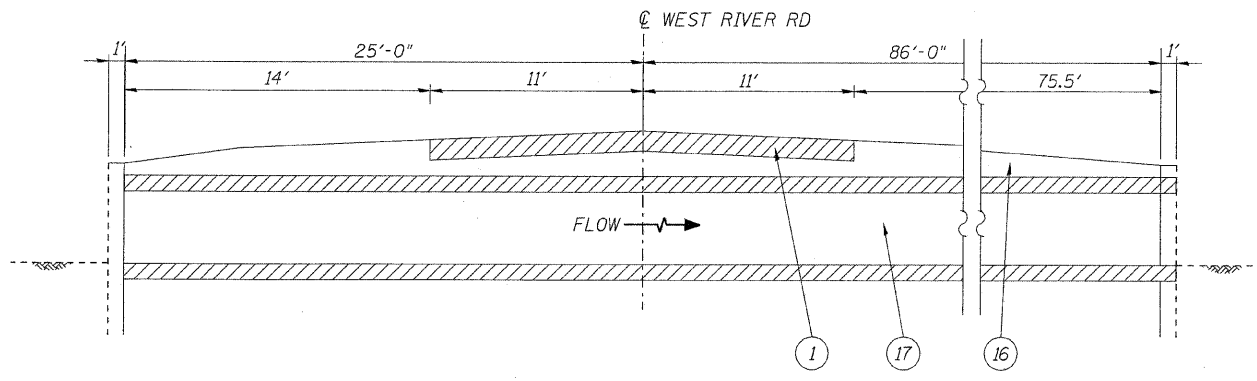
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
WEST RIVER ROAD OVER UNNAMED TRIBUTARY (0.1 MI N OF IL RT 113)**

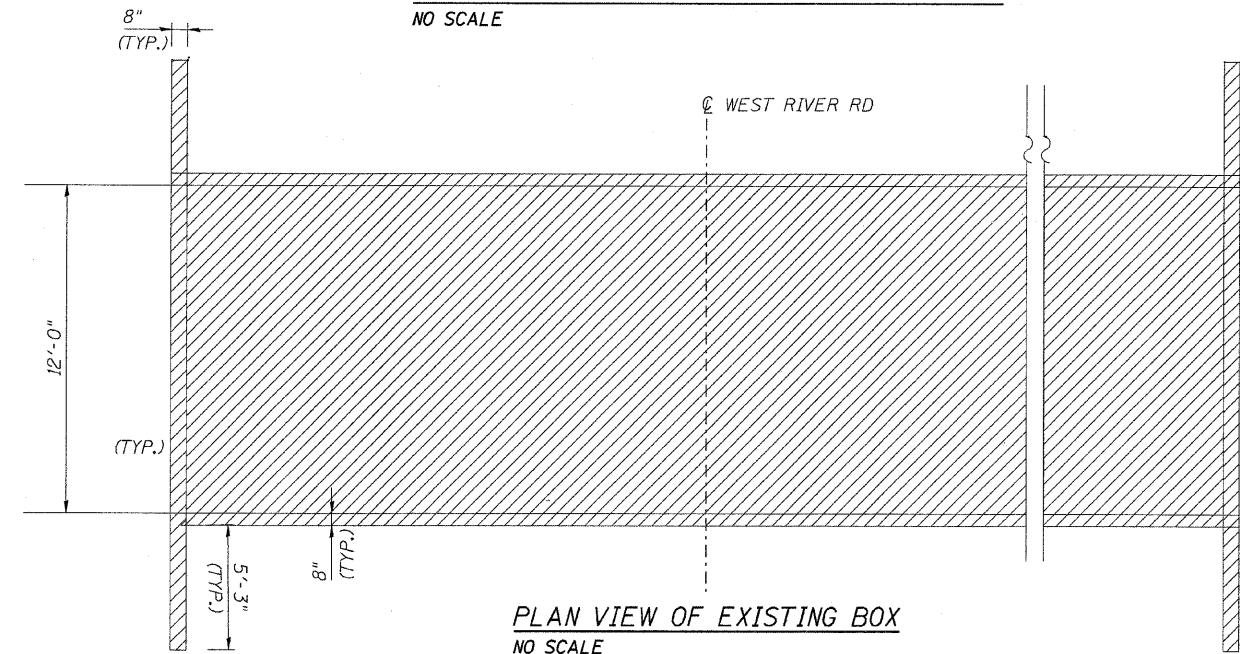
SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. 81+40 TO STA. 84+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0327	112 T-2	WILL	22	4
D-91-198-10			CONTRACT NO. 60J17	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

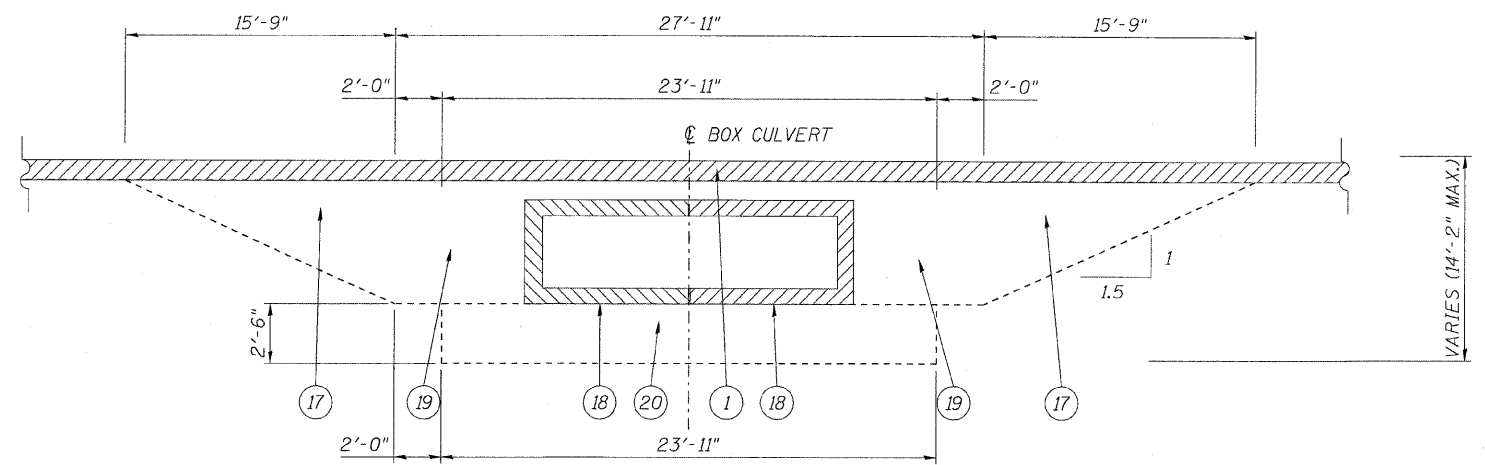
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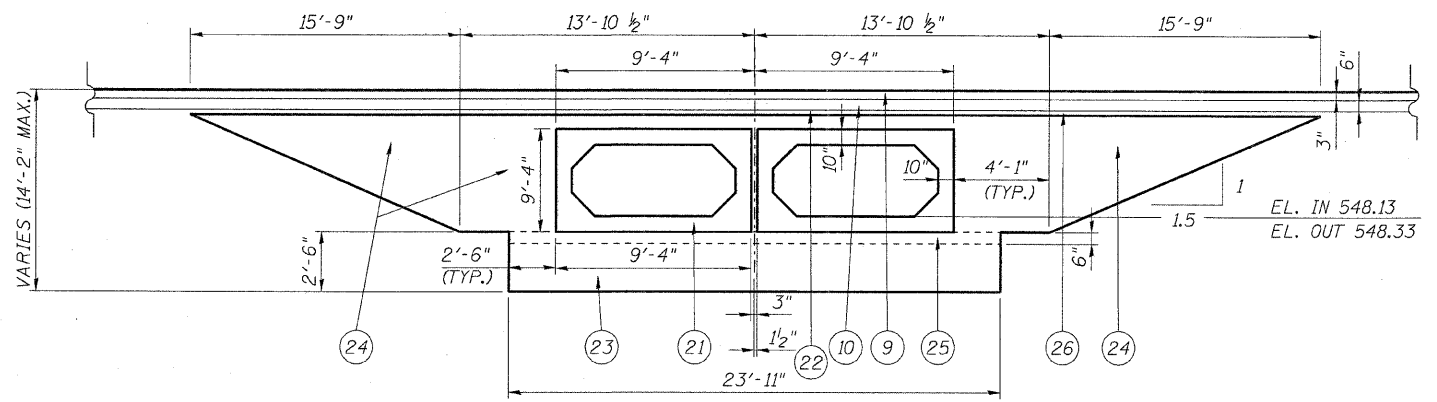
EXISTING CULVERT SECTION LOOKING NORTH
NO SCALE



PLAN VIEW OF EXISTING BOX
NO SCALE



EXISTING 2-BARREL BOX CULVERT SECTION LOOKING WEST
NO SCALE



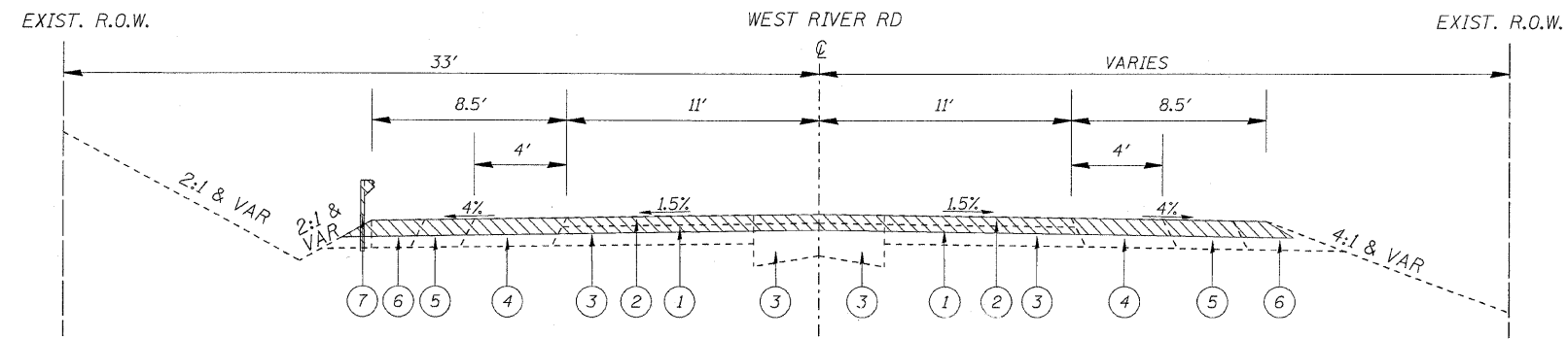
PROPOSED 2-BARREL BOX CULVERT SECTION LOOKING WEST
NO SCALE

EARTHWORK					
LOCATION	EARTH EXCAVATION CU YD	ADJ. EXCAVATION 15% CU YD	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	FURNISHED EXCAVATION CU YD	
STATION 98+95.47	STATION 101+20	1110	944	212	0

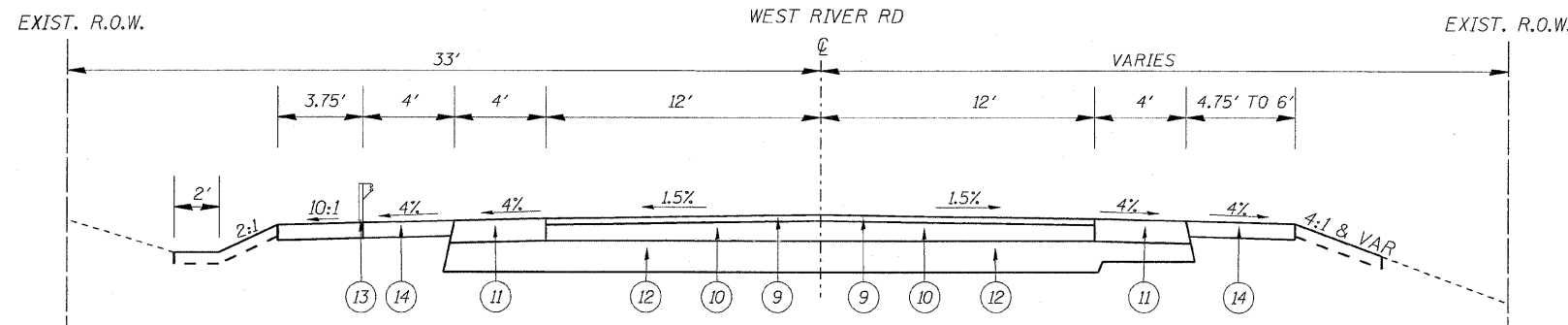
- NOTE:
1. THE INSTALLATION OF THE PRECAST CONCRETE BOX CULVERT WILL BE COMPLETED ALL AT ONE TIME.
 2. EXCAVATION LIMITS VARY.
 3. THE COST 6" OF CA 7 UNDER CULVERT SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 8'x8' ITEM.

LEGEND

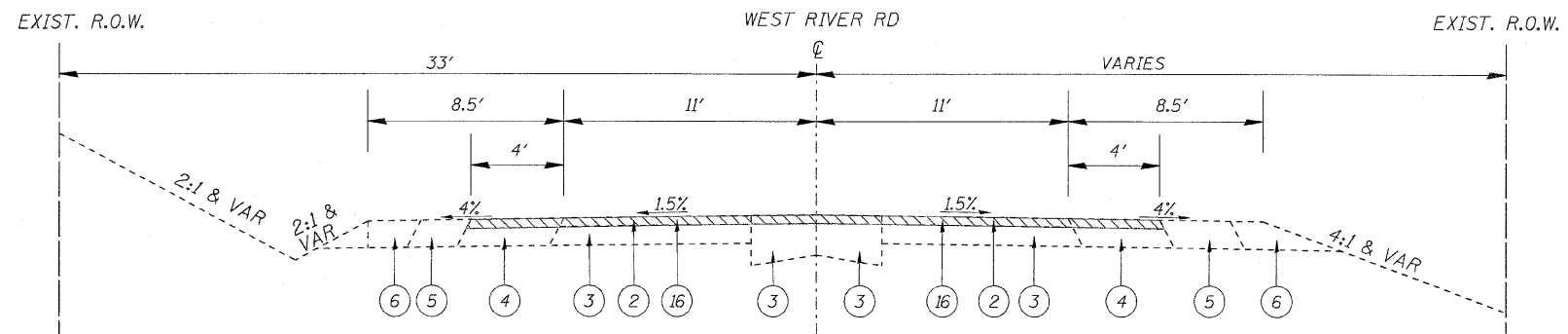
- 1 PAVEMENT REMOVAL
- 2 EXISTING HMA OVERLAY, 2"
- 3 EXISTING PCC PAVEMENT, 9-6-9
- 4 EXISTING STABILIZED BIT. BASE COURSE, VARIABLE DEPTH
- 5 EXISTING STABILIZED SHOULDER (B.A.M.)
- 6 EXISTING AGGREGATE SHOULDER
- 7 EXISTING STEEL PLATE BEAM GUARDRAIL TO BE REMOVED
- 8 EXISTING HEADWALL TO BE REMOVED
- 9 PROPOSED HMA SURFACE COURSE, MIX "C", N50, 2"
- 10 PROPOSED HMA BINDER COURSE, IL-19.0, N50, 6" (IN 3 LIFTS)
- 11 PROPOSED HMA SHOULDER, 8" (IN 3 LIFTS)
- 12 PROPOSED AGGREGATE SUBGRADE, 12"
- 13 PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A (6 FOOT POST)
- 14 PROPOSED AGGREGATE SHOULDER, 6"
- 15 PROPOSED HEADWALL (PAID FOR AS CONCRETE BOX CULVERT)
- 16 HMA SURFACE REMOVAL, 2 3/4"
- 17 EARTH EXCAVATION
- 18 REMOVAL OF EXISTING STRUCTURES
- 19 STRUCTURE EXCAVATION
- 20 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- 21 PROPOSED PRECAST CONCRETE BOX CULVERT 2-BARREL 8'X8'
- 22 PROPOSED BITUMINOUS MATERIAL (PRIME COAT) & AGGREGATE (PRIME COAT)
- 23 PROPOSED POROUS GRANULAR EMBANKMENT, SUBGRADE
- 24 PROPOSED GRANULAR CULVERT BACKFILL
- 25 PROPOSED CA-7, 6"
- 26 LEVELING BINDER (MACHINE METHOD) N50, 3/4"



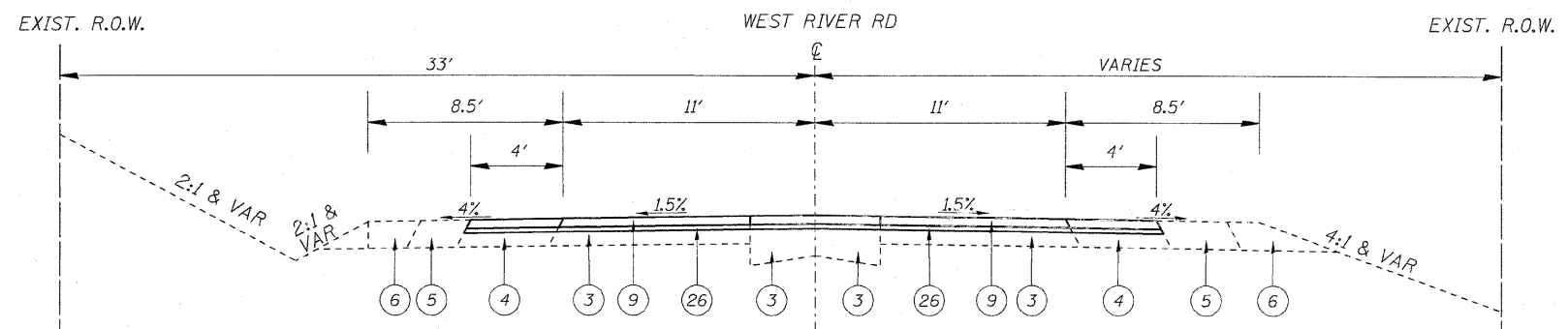
EXISTING TYPICAL SECTION
 STA. 82+23.88 TO STA. 82+44.46
 STA. 82+64.30 TO STA. 82+88.88



PROPOSED TYPICAL SECTION
 STA. 82+23.88 TO STA. 82+44.46
 STA. 82+64.30 TO STA. 82+88.88



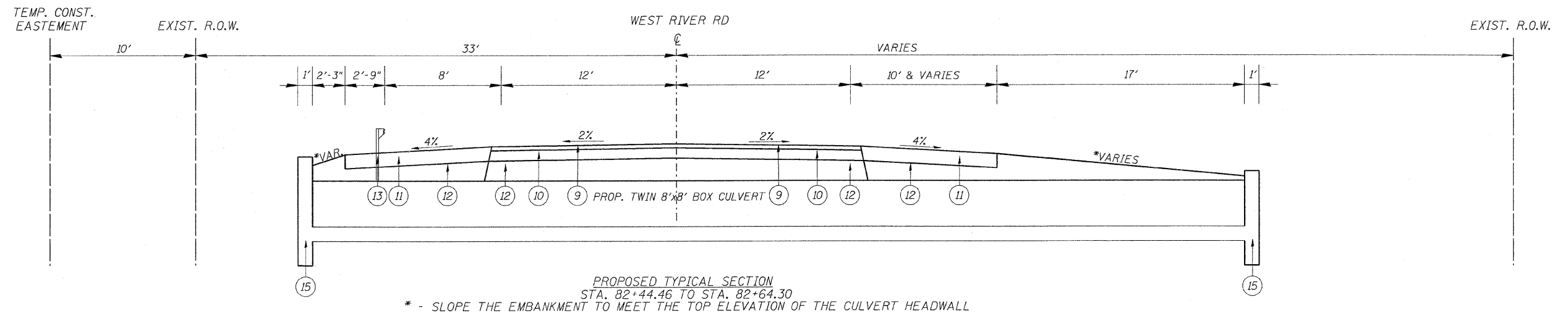
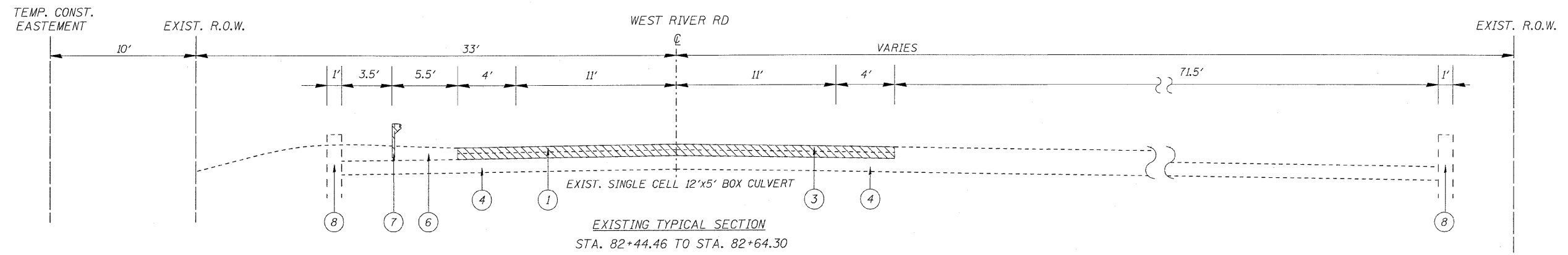
EXISTING TYPICAL SECTION
 STA. 81+40 TO STA. 82+23.88
 STA. 82+88.88 TO STA. 84+20



PROPOSED TYPICAL SECTION
 STA. 81+40 TO STA. 82+23.88
 STA. 82+88.88 TO STA. 84+20

LEGEND

- ① PAVEMENT REMOVAL
- ② EXISTING HMA OVERLAY, 2"
- ③ EXISTING PCC PAVEMENT, 9-6-9
- ④ EXISTING STABILIZED BIT. BASE COURSE, VARIABLE DEPTH
- ⑤ EXISTING STABILIZED SHOULDER (B.A.M.)
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING STEEL PLATE BEAM GUARDRAIL TO BE REMOVED
- ⑧ EXISTING HEADWALL TO BE REMOVED
- ⑨ PROPOSED HMA SURFACE COURSE, MIX "C", N50, 2"
- ⑩ PROPOSED HMA BINDER COURSE, IL-19.0, N50, 6" (IN 3 LIFTS)
- ⑪ PROPOSED HMA SHOULDER, 8" (IN 3 LIFTS)
- ⑫ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑬ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A (6 FOOT POST)
- ⑭ PROPOSED AGGREGATE SHOULDER, 6"
- ⑮ PROPOSED HEADWALL (PAID FOR AS CONCRETE BOX CULVERT)
- ⑯ HMA SURFACE REMOVAL, 2 3/4"
- ⑰ EARTH EXCAVATION
- ⑱ REMOVAL OF EXISTING STRUCTURES
- ⑲ STRUCTURE EXCAVATION
- ⑳ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- ㉑ PROPOSED PRECAST CONCRETE BOX CULVERT 2-BARREL 8'X8'
- ㉒ PROPOSED BITUMINOUS MATERIAL (PRIME COAT) & AGGREGATE (PRIME COAT)
- ㉓ PROPOSED POROUS GRANULAR EMBANKMENT, SUBGRADE
- ㉔ PROPOSED GRANULAR CULVERT BACKFILL
- ㉕ PROPOSED CA-7, 6"
- ㉖ LEVELING BINDER (MACHINE METHOD) N50, 3/4"



* - SLOPE THE EMBANKMENT TO MEET THE TOP ELEVATION OF THE CULVERT HEADWALL

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS	THICKNESS
ROADWAY		
HMA SURFACE COURSE, MIX "C", N50 (IL-9.5 mm)	4% @ 50 GYR	2"
HMA BINDER COURSE, IL-19.0, N50	4% @ 50 GYR	6"
LEVELING BINDER (MACHINE METHOD), N50 (IL-9.5 mm)	4% @ 50 GYR	3/4"
PAVEMENT PATCHING		
CLASS D PATCH (HMA BINDER IL-19 mm), 9 INCH	4% @ 70 GYR	9"
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR	2 3/4"
SHOULDER		
HMA SURFACE COURSE, MIX "C", N50 (IL-9.5 mm)	4% @ 50 GYR	2"
HMA BINDER COURSE, IL-19.0, N50	4% @ 50 GYR	6"
DRIVEWAY		
HMA SURFACE COURSE, MIX "C", N50 (IL-9.5 mm)	4% @ 50 GYR	2"
HMA BASE COURSE (HMA BINDER IL-19 mm)	4% @ 50 GYR	4"

LEGEND

- ① PAVEMENT REMOVAL
- ② EXISTING HMA OVERLAY, 2"
- ③ EXISTING PCC PAVEMENT, 9-6-9
- ④ EXISTING STABILIZED BIT. BASE COURSE, VARIABLE DEPTH
- ⑤ EXISTING STABILIZED SHOULDER (B.A.M.)
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING STEEL PLATE BEAM GUARDRAIL TO BE REMOVED
- ⑧ EXISTING HEADWALL TO BE REMOVED
- ⑨ PROPOSED HMA SURFACE COURSE, MIX "C", N50, 2"
- ⑩ PROPOSED HMA BINDER COURSE, IL-19.0, N50, 6" (IN 3 LIFTS)
- ⑪ PROPOSED HMA SHOULDER, 8" (IN 3 LIFTS)
- ⑫ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑬ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A (6 FOOT POST)
- ⑭ PROPOSED AGGREGATE SHOULDER, 6"
- ⑮ PROPOSED HEADWALL (PAID FOR AS CONCRETE BOX CULVERT)
- ⑯ HMA SURFACE REMOVAL, 2 3/4"
- ⑰ EARTH EXCAVATION
- ⑱ REMOVAL OF EXISTING STRUCTURES
- ⑲ STRUCTURE EXCAVATION
- ⑳ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- ㉑ PROPOSED PRECAST CONCRETE BOX CULVERT 2-BARREL 8'X8'
- ㉒ PROPOSED BITUMINOUS MATERIAL (PRIME COAT) & AGGREGATE (PRIME COAT)
- ㉓ PROPOSED POROUS GRANULAR EMBANKMENT, SUBGRADE
- ㉔ PROPOSED GRANULAR CULVERT BACKFILL
- ㉕ PROPOSED CA-7, 6"
- ㉖ LEVELING BINDER (MACHINE METHOD) N50, 3/4"

NOTES:

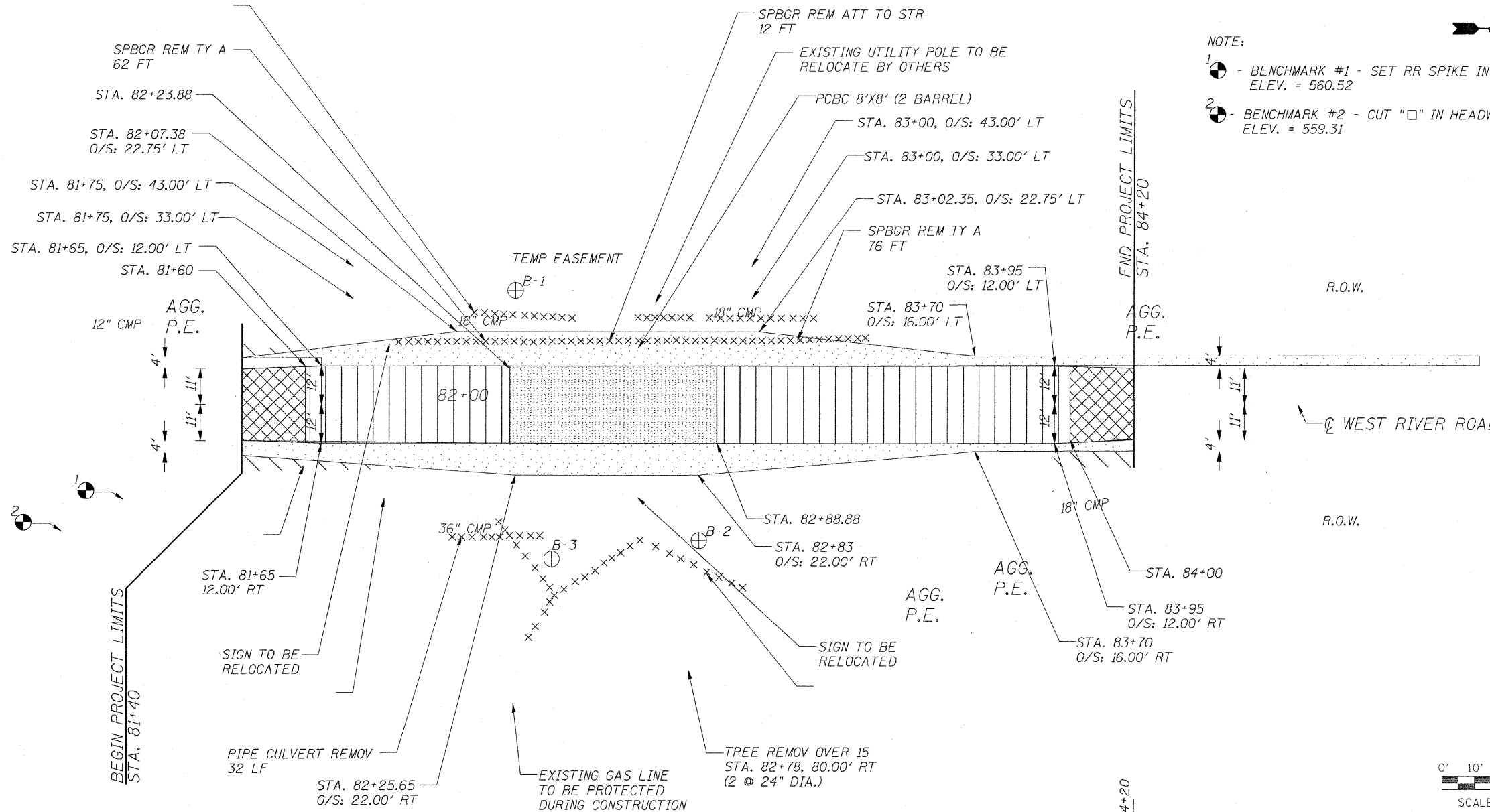
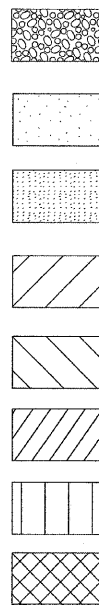
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SQ-YD/IN.

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

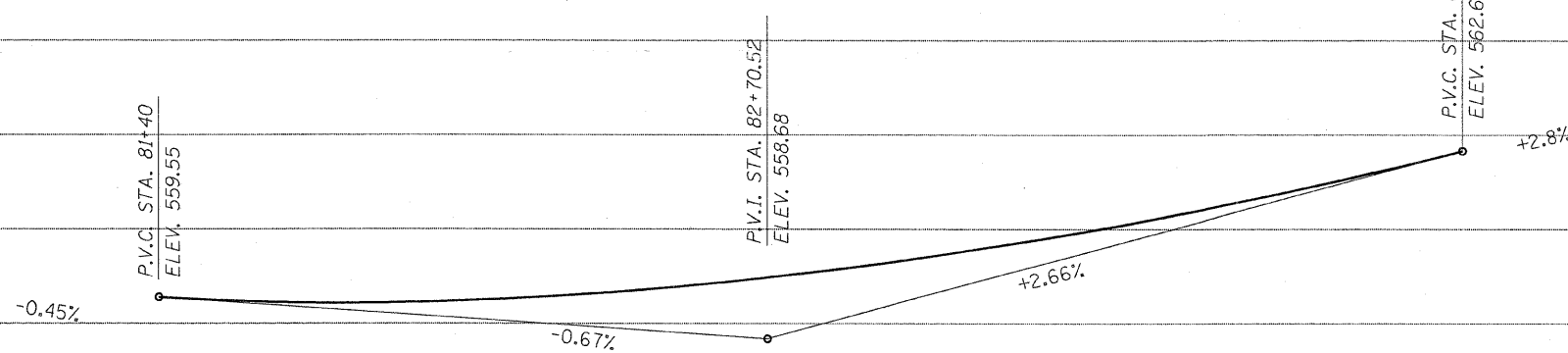
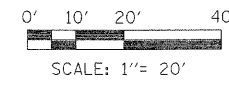
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

IL ROUTE 113

LEGEND

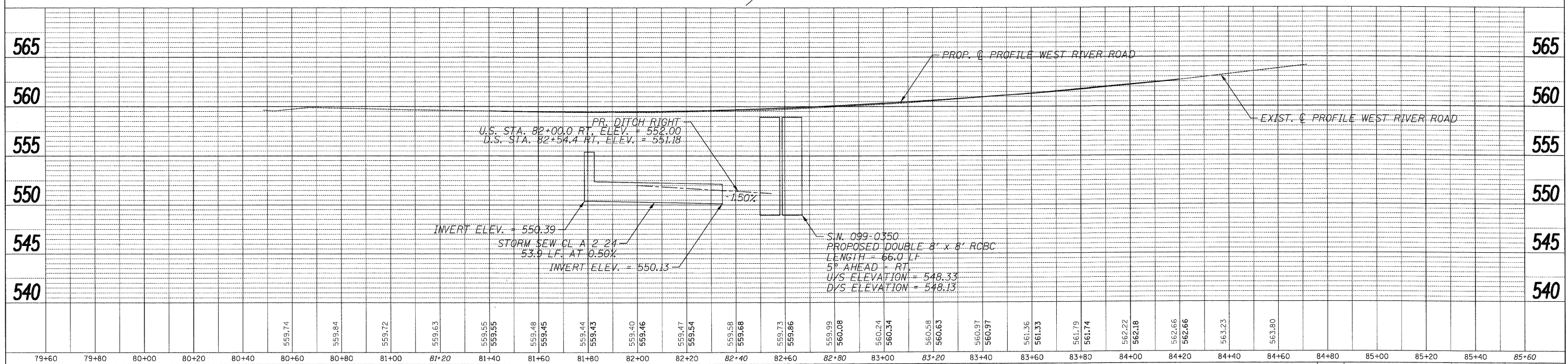
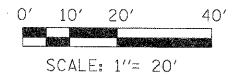
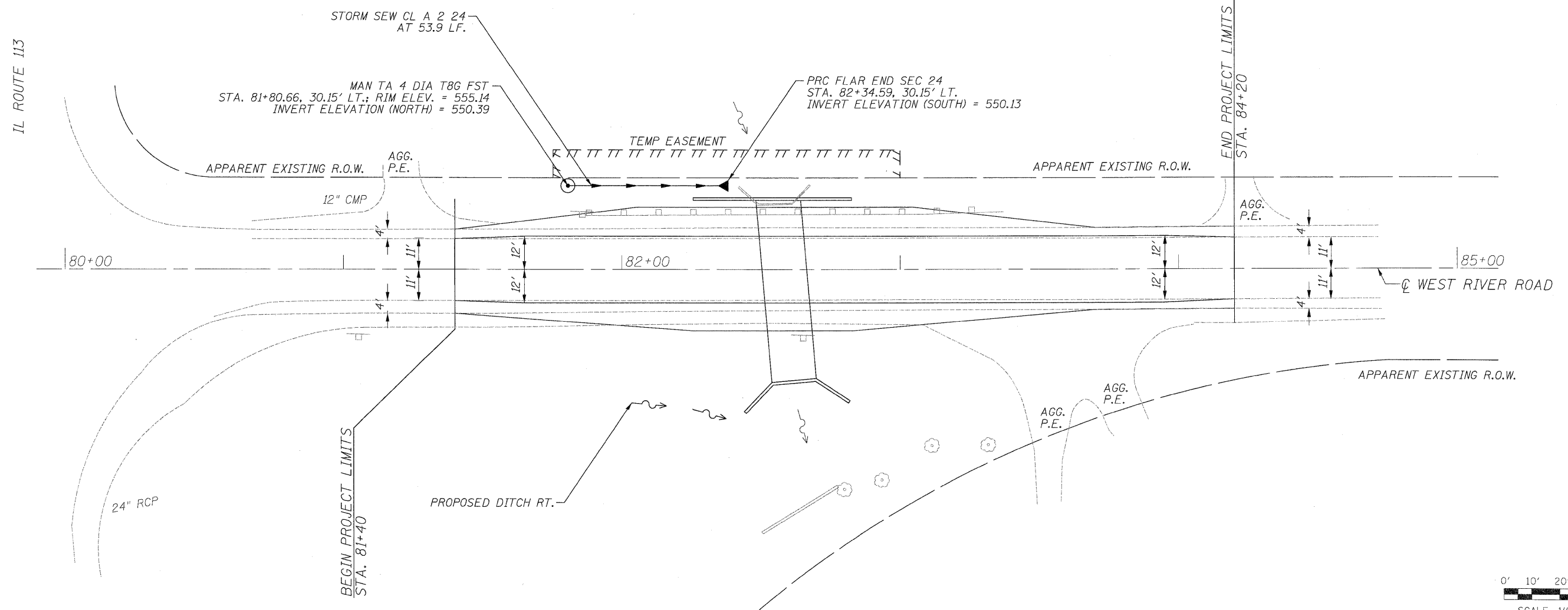
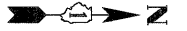


NOTE:
 1 - BENCHMARK #1 - SET RR SPIKE IN PP POLE ELEV. = 560.52
 2 - BENCHMARK #2 - CUT "□" IN HEADWALL ELEV. = 559.31



559.74	559.84	559.72	559.63	559.55	559.55	559.48	559.45	559.44	559.43	559.40	559.46	559.47	559.54	559.58	559.68	559.73	559.86	559.99	560.08	560.24	560.34	560.58	560.63	560.97	560.97	561.36	561.33	561.79	561.74	562.22	562.18	562.66	562.66	563.23	563.80	
80+60	80+80	81+00		81+40	81+60	81+80	82+00	82+20		82+60		83+00	83+40	83+60	83+80	84+00	84+20	84+40	84+60																	

- NOTES:
 1. ALL STORM SEWER TO BE CLASS "A" UNLESS NOTED OTHERWISE.
 2. RIM ELEVATIONS & OFFSETS FOR DRAINAGE STRUCTURES CONSTRUCTED TO BE CALLED OUT TO THE CENTER OF STRUCTURE.
 3. SEE PLAN AND PROFILE SHEET FOR EXISTING DRAINAGE STRUCTURES SCHEDULED FOR REMOVAL.



DATE	
BY	
PLANNING	
DESIGNED	
CHECKED	
DATE	

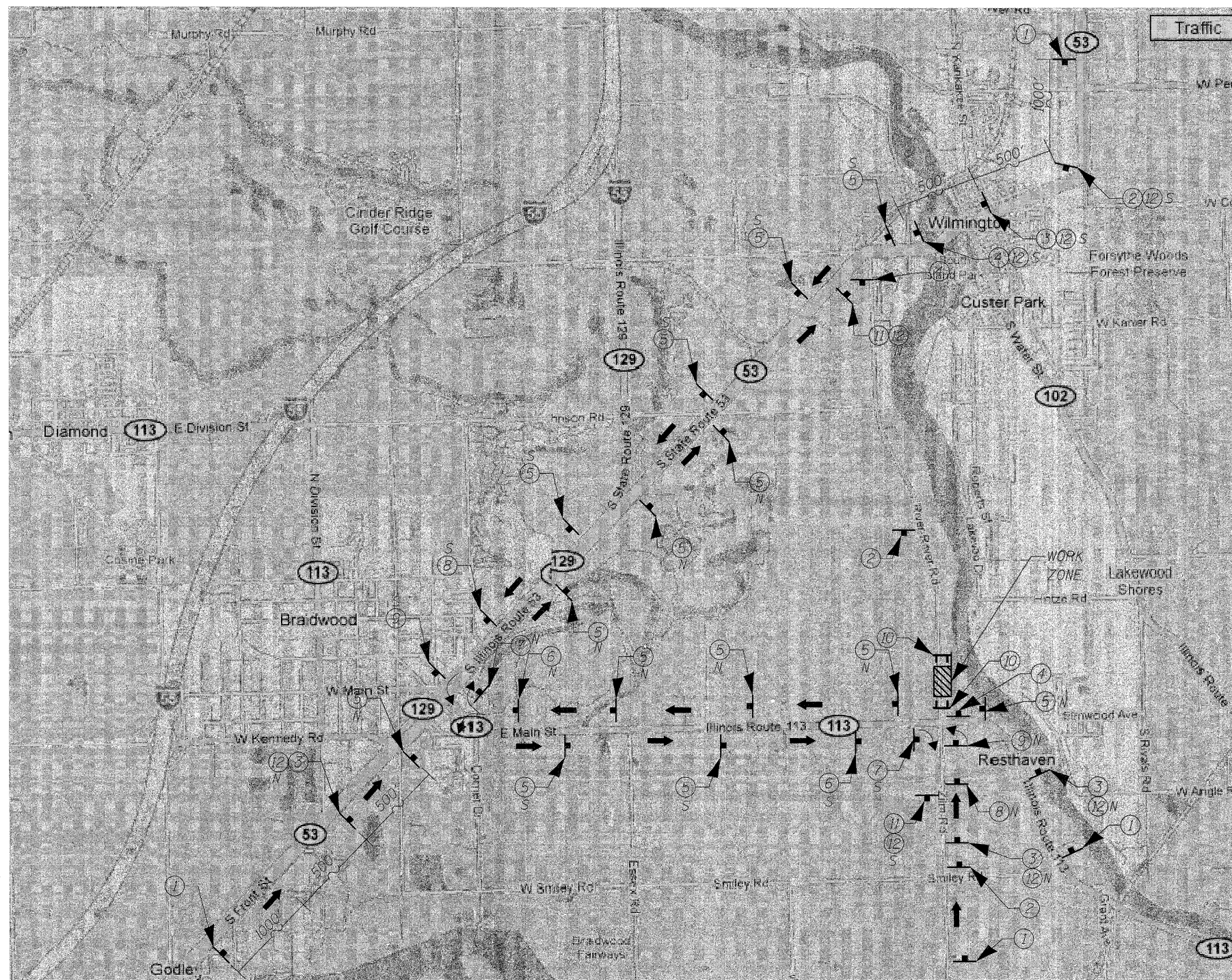
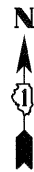
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BY	
PROFILING	
DESIGNED	
CHECKED	
DATE	

DESIGNED	-	DPS	REVISED	-
DRAWN	-	DPS	REVISED	-
CHECKED	-	FML	REVISED	-
DATE	-	06/25/2010	REVISED	-

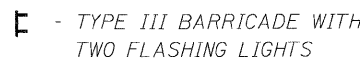
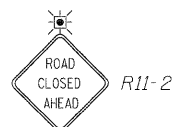
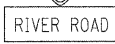

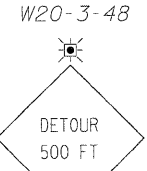
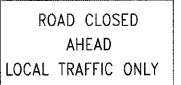
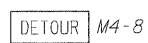



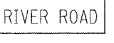


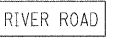
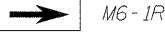





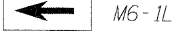
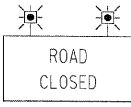
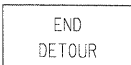



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
WEST RIVER ROAD OVER UNNAMED TRIBUTARY (0.1 MI N OF IL RT 113)
 SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 81+40 TO STA. 84+20

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0327	112 T-2	WILL	22	9
D-91-198-10		CONTRACT NO. 60J17		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND

- 
 - TYPE III BARRICADE WITH TWO FLASHING LIGHTS
- ①  R11-2
 RIVER ROAD
- ②  ROAD CLOSED 1000 FT
 W20-3-48
- ③  DETOUR 500 FT
 W20-2-48
- ④  ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY
 R11-3a
- ⑤  DETOUR M4-8
 RIVER ROAD
 M6-3
- ⑥  DETOUR M4-8
 RIVER ROAD
 M5-1
- ⑦  DETOUR M4-8
 RIVER ROAD
 M6-1R
- ⑧  DETOUR M4-8
 RIVER ROAD
 M5-2
- ⑨  DETOUR M4-8
 RIVER ROAD
 M6-1L
- ⑩  ROAD CLOSED
 R11-2
- ⑪  END DETOUR
 M4-8A
- ⑫  RIVER ROAD
- (N)  NORTH
- (S)  SOUTH

LOCO, INC.
 CONSULTING ENGINEERS
 1979 N. MILL ST., SUITE 210
 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

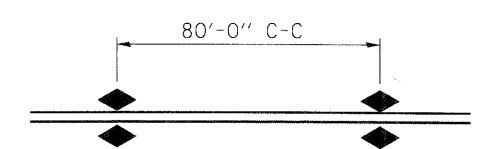
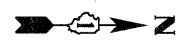
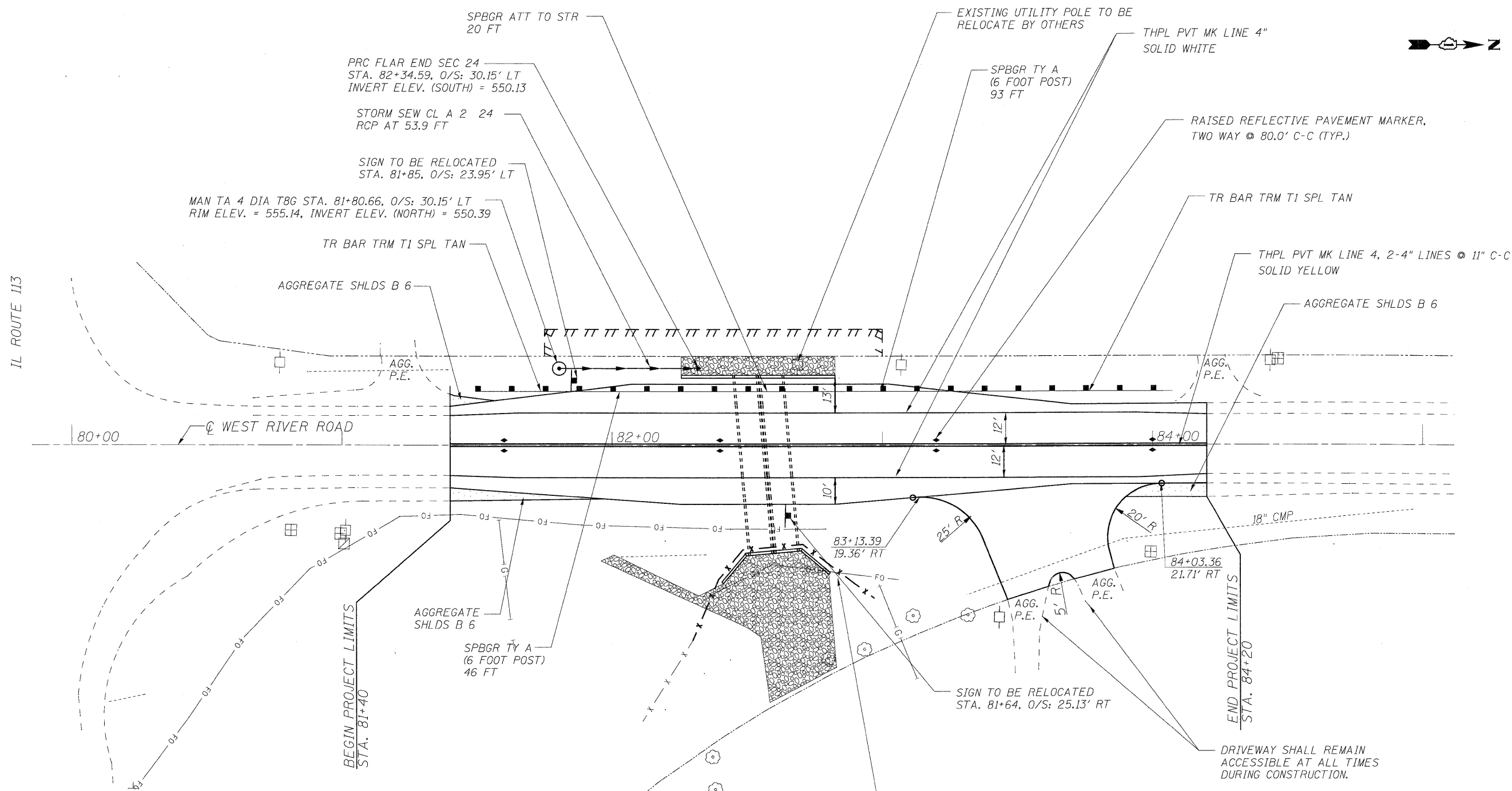
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DRAWN - ST, TSC	REVISIONS -	
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PLOT DATE = #DATE#	DATE - 06/25/2010	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

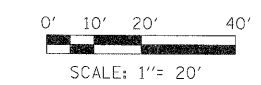
**DETOUR PLAN
 WEST RIVER ROAD OVER UNNAMED TRIBUTARY (0.1 MIN OF IL RT 113)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 81+40 TO STA. 84+20

F.A.U. RTE. 0327	SECTION 112 T-2	COUNTY WILL	TOTAL SHEETS 22	SHEET NO. 10
D-91-198-10			CONTRACT NO. 60J17	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LANE PAVEMENT MARKER DETAIL
 SEE STATE STANDARD NO. 780001-01
 SEE DISTRICT STANDARD NO. TC-11



LEGEND

- STONE RIPRAP CL A5 W/ FILTER FABRIC
- AGGREGATE SHLDS B 6

LONCO, INC.
 CONSULTING ENGINEERS
 1560 WALL ST, SUITE 222
 NAPERVILLE, ILLINOIS 60563 PH 16301 571-9100

DESIGNED - MJY	REVISED -
DRAWN - ST, TSC	REVISED -
CHECKED - MJY, SLV	REVISED -
DATE - 06/25/2010	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

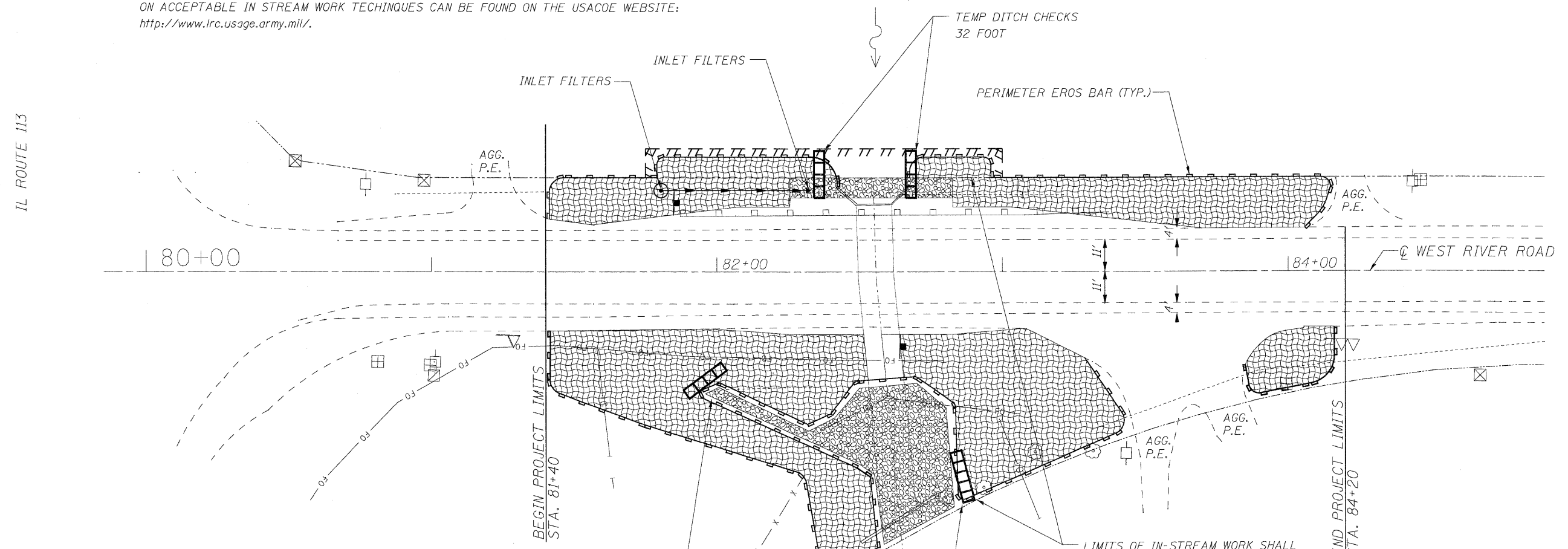
**PAVEMENT MARKING PLAN
 WEST RIVER ROAD OVER UNNAMED TRIBUTARY (0.1 MI N OF IL RT 113)**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 81+40 TO STA. 84+20

F.A.U. RTE. 0327	SECTION 112 T-2	COUNTY WILL	TOTAL SHEETS 22	SHEET NO. 11
D-91-198-10			CONTRACT NO. 60J17	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TEMPORARY EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL PERIMETER EROSION BARRIER PRIOR TO STRIPPING OF VEGETATION.
2. TEMPORARY DITCH CHECKS SHALL BE INSTALLED IMMEDIATELY AFTER GRADING IS COMPLETED. DITCH CHECKS ARE BASED ON ONE (1) INSTALLATION AND THREE (3) REPLACEMENTS OVER THE DURATION OF THE CONTRACT. THESE ITEMS WILL BE PAID FOR LINEAL FOOT FOR THE ORIGINAL INSTALLATION. REGARDLESS OF THE TYPE OF CONFIGURATION USED.
3. RUNOFF FROM EXCAVATED AREAS SHALL LEAVE THE SITE THROUGH SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL ADJUST HIS OPERATION AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.
4. THE PERMIT ISSUED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION DOES NOT COVER IN-STREAM WORK BY THE CONTRACTOR. AFTER AWARD, THE CONTRACTOR WILL NEED TO COORDINATE AND HAVE A WORK PLAN APPROVED BY THE US ARMY CORPS OF ENGINEERS (USACOE). GUIDELINES ON ACCEPTABLE IN STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACOE WEBSITE: <http://www.lrc.usage.army.mil/>.
5. THE CONTRACTOR SHALL SURROUND ANY NECESSARY EARTH STOCKPILES WITH PERIMETER EROSION BARRIER.
6. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AT ALL TIMES. EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS OR WITHIN 24 HOURS AFTER A 13 MM (0.5 INCH) RAINFALL OR SNOWFALL.
7. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE BEEN CONCLUDED. AREAS THAT HAVE STEEP SLOPES OR WILL NOT RECEIVE PERMANENT LANDSCAPING, SHALL BE TEMPORARILY SEEDED. ALL FLATTER AREAS OR AREAS WHERE NO FURTHER WORK IS TO OCCUR FOR ONE MONTH OR MORE SHALL BE SEEDED AND COVERED WITH EXCELSIOR BLANKET WITHIN SEVEN (7) CALENDAR DAYS.

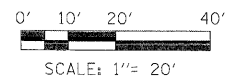


TEMPORARY EROSION CONTROL SEQUENCE OF CONSTRUCTION

1. ESTABLISH TEMPORARY EROSION CONTROL AND ERECT PERIMETER EROSION CONTROL BARRIER AS SHOWN ON THE PLANS PRIOR TO EARTHWORK.
2. IMPLEMENT SEDIMENT AND EROSION CONTROL DEVICES FOR STOCKPILE AREAS AS REQUIRED.
3. SETUP CONSTRUCTION STAGING OF PROPOSED DRAINAGE FACILITIES AND INSTALL TEMPORARY DITCH CHECKS IMMEDIATELY AFTER DITCH GRADING IS COMPLETED.
4. INSTALL PERMANENT LANDSCAPING IN CONJUNCTION WITH CONSTRUCTION STAGING.
5. CLEAN DRAINAGE FACILITIES AND REMOVE TEMPORARY EROSION DEVICES WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED.

LEGEND

- COMPOST FURNISH AND PLACE, 4" W/ SEEDING, CL 4 AND EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS (STD 280001-04)



LOCO, INC.
 CONSULTING ENGINEERS
 1560 WALL ST, SUITE 222
 NAPERVILLE, ILLINOIS 60563 Ph 630/577-9100

DESIGNED - MJY	REVISED -
DRAWN - ST, TSC	REVISED -
CHECKED - MJY, SLV	REVISED -
DATE - 06/25/2010	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
 WEST RIVER ROAD OVER UNNAMED TRIBUTARY (0.1 MIN OF IL RT 113)**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 81+40 TO STA. 84+05

F.A.D. RTE. 0327	SECTION 112 T-2	COUNTY WILL	TOTAL SHEETS 22	SHEET NO. 12
D-91-198-10			CONTRACT NO. 60J17	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

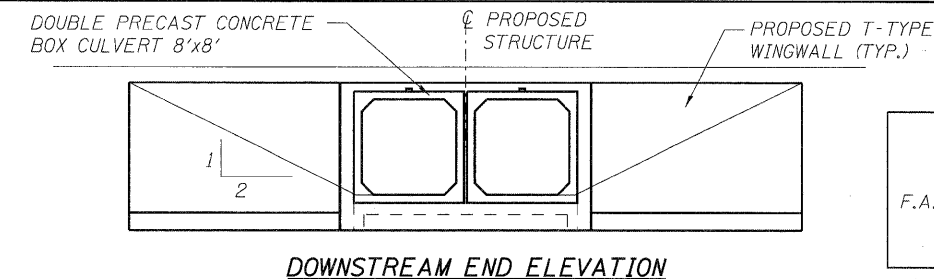
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF STRUCTURAL SHEETS

SHT. NO.	DESCRIPTION
13	GENERAL PLAN, ELEVATION AND INDEX
14-15	HEADWALL DETAILS
16-17	WINGWALL DETAILS

GENERAL NOTES

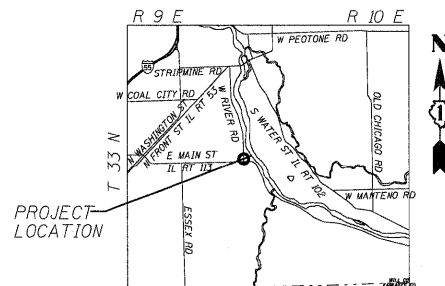
- EXISTING STRUCTURE: NOT SALVAGEABLE. THE NEW STRUCTURE NUMBER IS 099-0520.
- THE PROPOSED PRECAST CONCRETE BOX CULVERT SHALL BE DESIGNED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OF AASHTO M273. COST IS INCLUDED IN PRECAST CONCRETE BOX CULVERT 8'x8' ITEM.
- FLOW OF THE CREEK UNDER WEST RIVER ROAD IS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY PLACE A TEMPORARY STREAM DIVERSION AT THE UPSTREAM END OF THE BOX CULVERT/WINGWALLS AND TEMPORARILY PUMPING OR OTHERWISE CONVEYING THE STREAM FLOW THROUGH THE WORK ZONE. THE DESIGN AND CONSTRUCTION OF THE TEMPORARY DIVERSION SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND THE COST SHALL BE INCLUDED IN PRECAST CONCRETE BOX CULVERT PAY ITEM. THE TEMPORARY STREAM DIVERSION PLAN TO BE USED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.
- ALL CONSTRUCTION JOINTS SHALL BE BONDED.
- THE INFORMATION SHOWN IN THESE PLANS CONCERNING THE TYPE AND LOCATION OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE EXISTENCE, TYPE, SIZE AND LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES AS MAY BE NECESSARY TO AVOID CONFLICT WITH CONSTRUCTION OPERATIONS AND/OR DAMAGE TO THE UTILITY.
- THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO PRECAST CONCRETE BOX CULVERT 8'x8'.
- THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL TREES WITHIN AND ADJACENT TO THE WORK ZONE FOR THIS PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO PRECAST CONCRETE BOX CULVERT 8'x8'.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- THE CONTRACTOR SHALL SUBMIT A PLAN AND SCHEDULE OF CONSTRUCTION ACTIVITIES TO THE ENGINEER FOR APPROVAL BEFORE STARTING ANY WORK FOR THIS PROJECT.
- AS-BUILT/ACTUAL DETAILS OF EXISTING BOX CULVERT AND WINGWALLS ARE NOT AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL EXISTING STRUCTURE TO BE REMOVED.
- THE COST OF 6" OF CA 7 UNDER CULVERT SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 8'x8' ITEM.



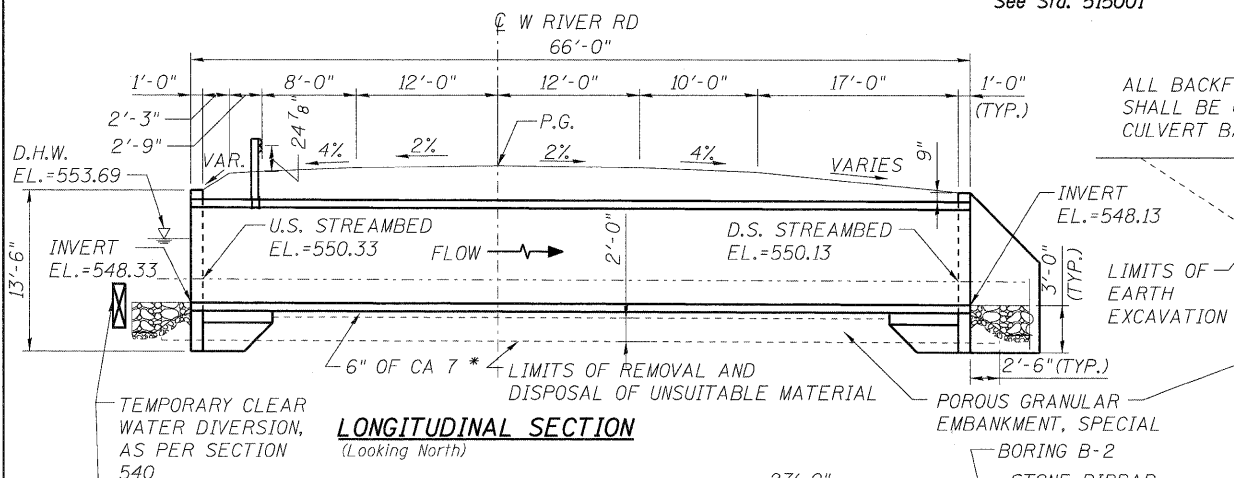
DOWNSTREAM END ELEVATION

STATION 82+55.73
BUILT 20XX BY
STATE OF ILLINOIS
F.A.U. ROUTE 0327 SEC. 112 T-1
LOADING HS20-44
STR. NO. 099-0520

NAME PLATE
See Std. 515001



LOCATION SKETCH



LONGITUDINAL SECTION
(Looking North)

ALL BACKFILL MATERIAL
SHALL BE GRANULAR
CULVERT BACKFILL

PROPOSED STRUCTURE
8'-0" x 2'-6" (TYP.)

LIMITS OF
EARTH
EXCAVATION

LIMITS OF
STRUCTURE
EXCAVATION

LIMITS OF REMOVAL
AND DISPOSAL OF
UNSUITABLE MATERIAL

8'-0" x 8'-0" PRECAST CONCRETE BOX
CULVERT, THICKNESS OF WALLS AND
SLAB TO BE DETERMINED BY
MANUFACTURER IN FINAL DESIGN (TYP.)

* - THE COST OF 6" OF CA 7 WILL BE INCLUDED IN THE
PRECAST CONCRETE BOX CULVERT 8'x8' ITEM.

SECTION THRU CULVERT

HIGHWAY CLASSIFICATION

F.A.U. Rte. 0327 - West River Road
Functional Class: Minor Arterial (Urban)
ADT: 2,650 (2008) DHV = 265 ADTT: 14%
Design Speed: 60 m.p.h.
Posted Speed: 55 m.p.h.

LOADING HS20-44

Allow 50 psf for future wearing surface
Design unit weight of soil = 120 pcf

DESIGN SPECIFICATIONS

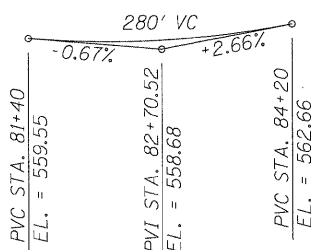
American Association of State Highway and
Transportation Officials (AASHTO) Standard
Specifications for Highway Bridges, 2002

DESIGN STRESSES

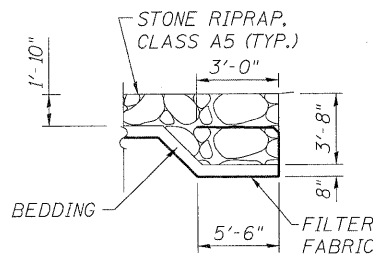
FIELD UNITS PRECAST UNITS
f'c = 3,500 psi f'c = 5,000 psi
fy = 60,000 psi fy = 65,000 psi (WWF)
(REINFORCEMENT) fy = 60,000 psi
(REINFORCEMENT)

SEISMIC DATA

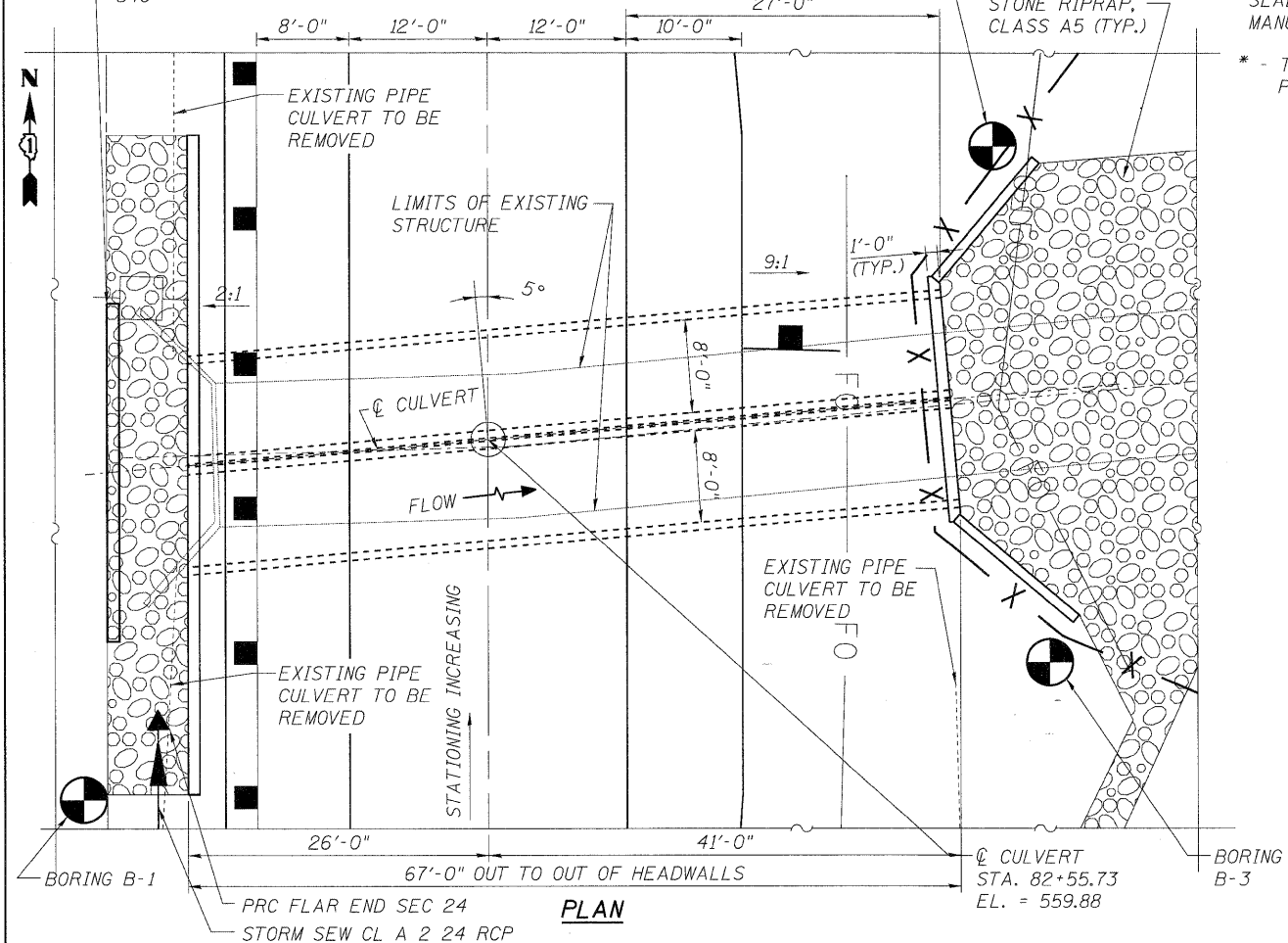
Seismic Performance Zone (SPZ) = 1
Horizontal Bedrock Acceleration Coefficient (A) = 3.5%g
Site Coefficient (S) = 1.0



PROFILE GRADE
(ALONG & ROADWAY)



SECTION THRU RIPRAP
(AT WEST SIDE OF CULVERT)



PLAN

WATERWAY INFORMATION

Drainage Area = 1,621 m² Exist. Low Grade Elev. = 559.69 ft. Sta. 82+55.73
Prop. Low Grade Elev. = 559.69 ft. Sta. 82+55.73

Flood	Freq. Yr.	Q C.F.S.	Opening	Sq. Ft.	Nat. Head - Ft.	Headwater EL.			
			Exist.	Prop.	Exist.	Prop.			
Design	50	398	27.3	53.8	553.69	5.51	0.03	559.20	553.72
Base	100	441	27.3	56.3	553.85	5.39	0.13	559.24	553.98
Overtopping									
Max. Calc.	500	561	27.3	63.0	554.27	5.03	0.46	559.30	554.73

GENERAL PLAN & ELEVATION
WEST RIVER ROAD OVER
UNNAMED TRIBUTARY TO KANKAKEE RIVER
(0.1 MI NORTH OF IL ROUTE 113)
F.A.U. RT. 0327
SECTION 112 T-2
WILL COUNTY
STA. 82+55.73
STRUCTURE NO. 099-0520

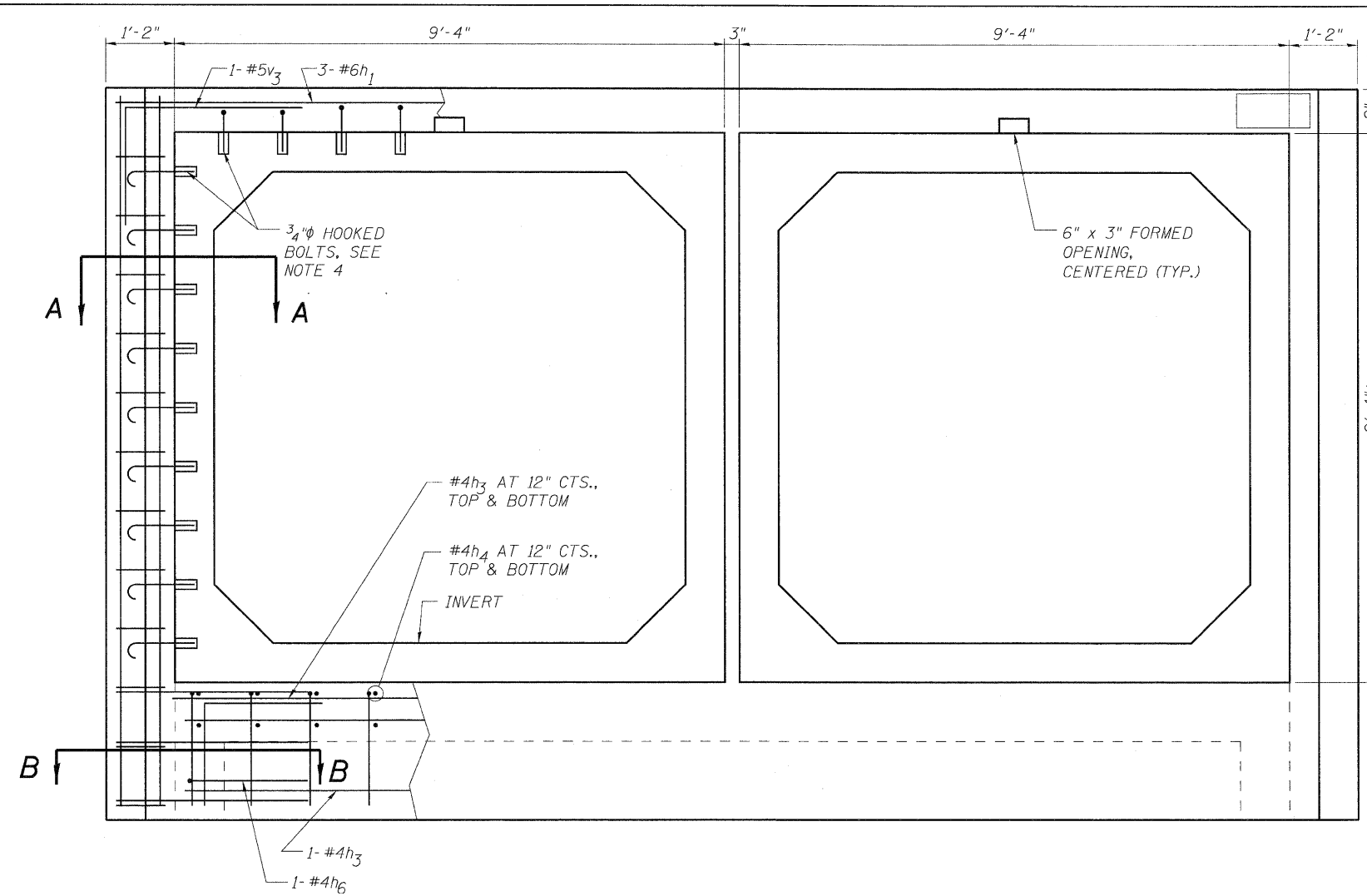
SHEET NO. S1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF S5 SHEETS	0327	112 T-2	WILL	22	13
	D-91-198-10		CONTRACT NO. 60J17		
	ILLINOIS		FED. AID PROJECT		

DESIGNED -	ST
CHECKED -	SLV
DRAWN -	ST
CHECKED -	DJB

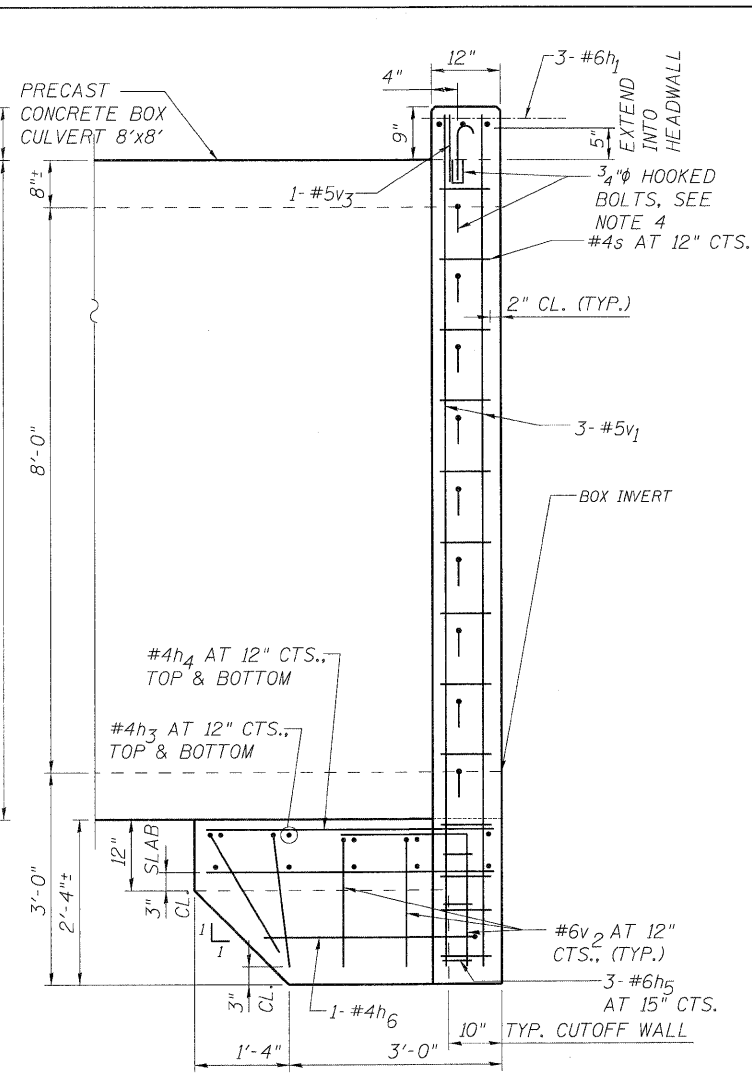
LONGO, INC.
CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

DESIGN SCOUR ELEVATION TABLE

DESIGN SCOUR ELEVATION (FT.)	UPSTREAM	DOWNSTREAM
	545.33	545.13

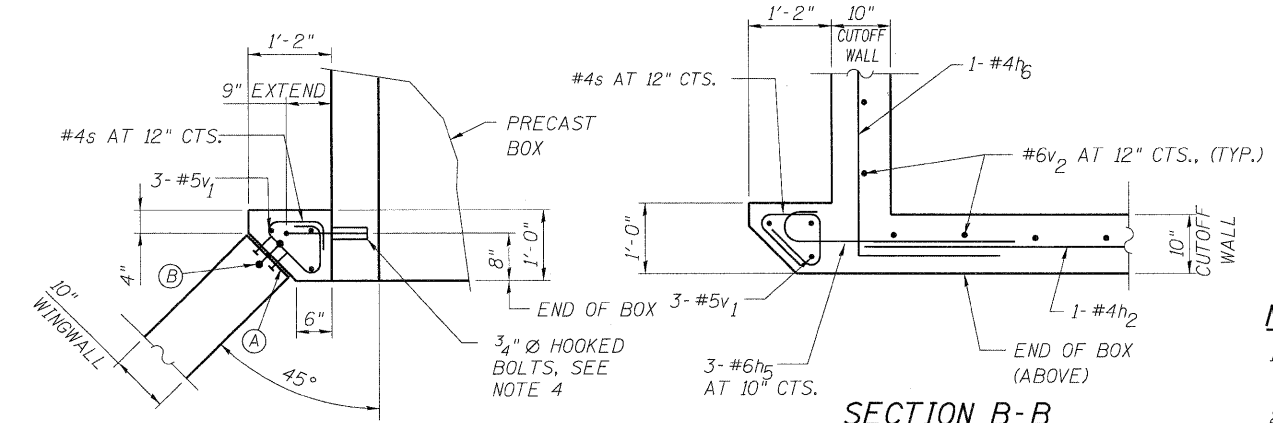


HEADWALL ELEVATION



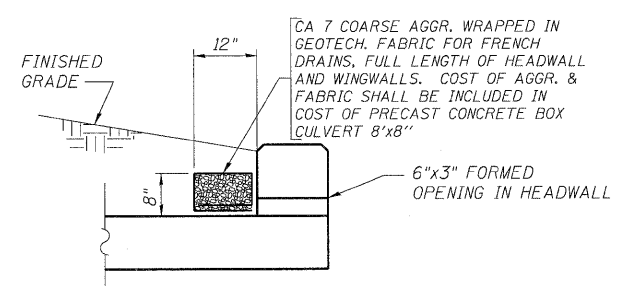
SIDE ELEVATION

- (A) 1/2" PREMOULDED JOINT FILLER, INSTALL W/ 2 COLUMNS OF CONC. NAILS (FLAT HD. C.S.), 1" LONG, AT 12" CTS., VERTICAL.
- (B) 6" HOLLOW BULB TYPE NONMETALLIC WATER SEAL (6" FROM TOP OF WALL TO TOP OF FOOTING).

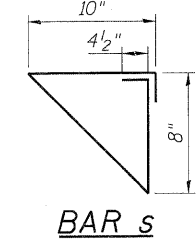


SECTION A-A

SECTION B-B



DRAINAGE DETAIL



BAR s

NOTES

1. CONTRACTOR SHALL COORDINATE PRECAST CULVERT DIMENSIONS WITH SUPPLIER BEFORE ORDERING MATERIALS.
2. ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS, EXCEPT AS NOTED.
3. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
4. TO CONNECT CAST-IN-PLACE COLLAR TO PRECAST BOX, PROVIDE 3/4" HOOKED BOLTS WITH EMBEDDED INSERTS AT 12" MAXIMUM CENTERS. HOOKED BOLTS SHALL EXTEND 6" INTO HEADWALL AND 9" INTO SIDES OF COLLAR. COST SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 8'x8' ITEM.
5. PROVIDE PROTECTIVE COAT ON TOP HORIZONTAL SURFACES AND TOP 6" ON INSIDE FACES OF HEADWALLS.

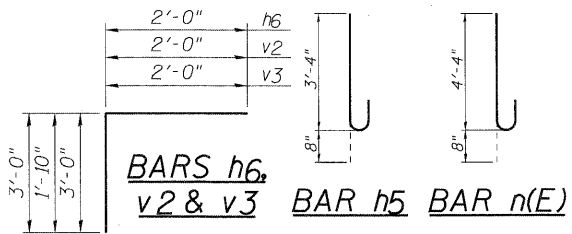
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	19	#4	13'-0"	—
h ₁	6	#6	20'-11"	—
h ₂	19	#4	17'-4"	—
h ₃	20	#4	18'-7"	—
h ₄	76	#4	4'-0"	—
h ₅	12	#6	4'-0"	—
h ₆	2	#4	5'-0"	—
h ₇	2	#4	5'-0"	—
n(E)	74	#4	5'-1"	—
s	26	#4	3'-4"	—
s ₁	26	#4	3'-11"	—
t	160	#4	6'-2"	—
v	16	#4	16'-9"	—
v ₁	14	#5	12'-0"	—
v ₂	50	#6	3'-7"	—
v ₃	4	#5	5'-0"	—
v ₄	4	#4	16'-9"	—
v ₅	52	#4	10'-4"	—
w	20	#5	13'-2"	—
w ₁	20	#5	17'-6"	—
Item	Unit	Quantity		
EARTH EXCAVATION	CU YD	1100		
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	212		
POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	212		
STONE RIPRAP, CLASS A5	SQ YD	243		
FILTER FABRIC	SQ YD	407		
STRUCTURE EXCAVATION	CU YD	587		
REMOVAL OF EXISTING STRUCTURES	EACH	1		
PROTECTIVE COAT	SQ YD	17		
REINFORCEMENT BARS	POUND	3600		
REINFORCEMENT BARS, EPOXY COATED	POUND	250		
NAME PLATES	EACH	1		
CONCRETE BOX CULVERTS	CU YD	59		
PRECAST CONCRETE BOX CULVERT 8'x8'	FOOT	133		
GEOCOMPOSITE WALL DRAIN	SQ YD	62		
PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	80		
GRANULAR CULVERT BACKFILL	CU YD	1687		

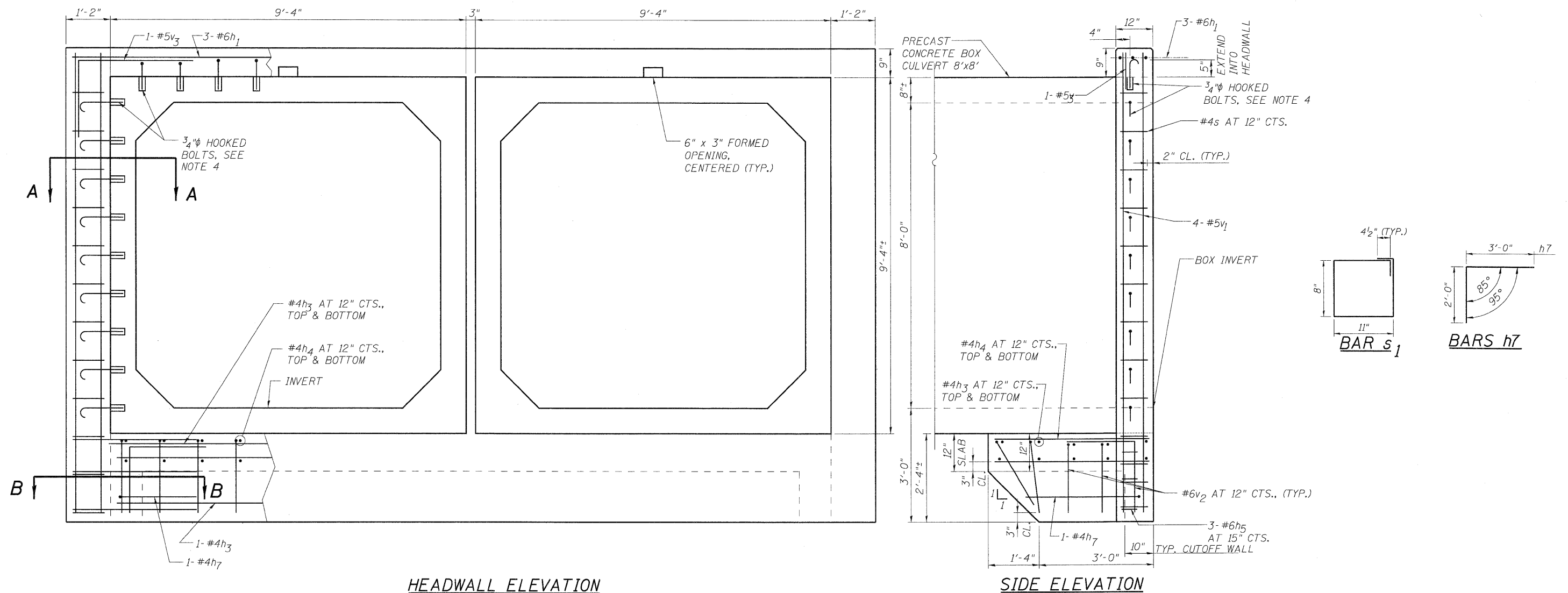
HEADWALL DETAILS (EAST HEADWALL)
WEST RIVER ROAD OVER UNNAMED TRIBUTARY TO KANKAKEE RIVER
(0.1 MI NORTH OF IL ROUTE 113)
F.A.U. RT. 0327
SECTION 112 T-2
WILL COUNTY
STA. 82+55.73
STRUCTURE NO. 099-0520

DESIGNED -	ST
CHECKED -	SLV
DRAWN -	ST
CHECKED -	DJB

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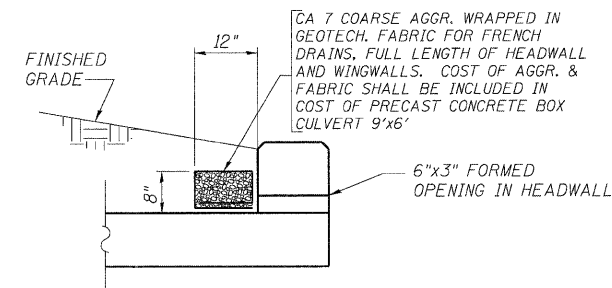
SHEET NO. S2 OF S5 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0327	112 T-2	WILL	22	14
D-91-198-10			CONTRACT NO. 60J17		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT		



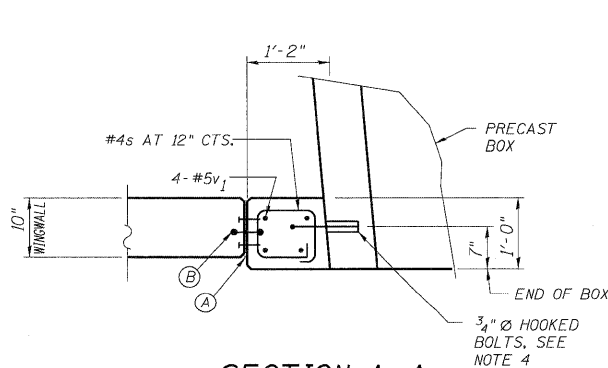
HEADWALL ELEVATION

SIDE ELEVATION

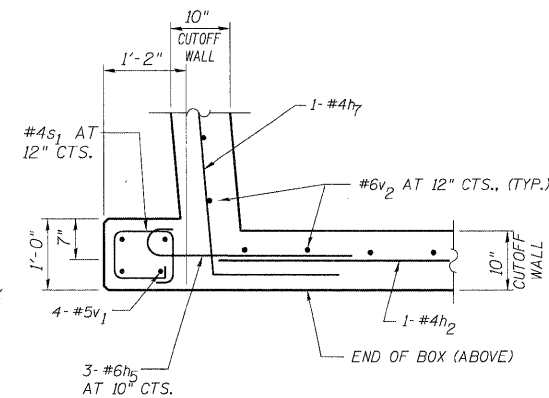
- (A) 1/2" PREMOULDED JOINT FILLER, INSTALL W/ 2 COLUMNS OF CONC. NAILS (FLAT HD. C.S.), 1" LONG, AT 12" CTS., VERTICAL.
- (B) 6" HOLLOW BULB TYPE NONMETALLIC WATER SEAL (6" FROM TOP OF WALL TO TOP OF FOOTING).



DRAINAGE DETAIL



SECTION A-A



SECTION B-B

NOTES

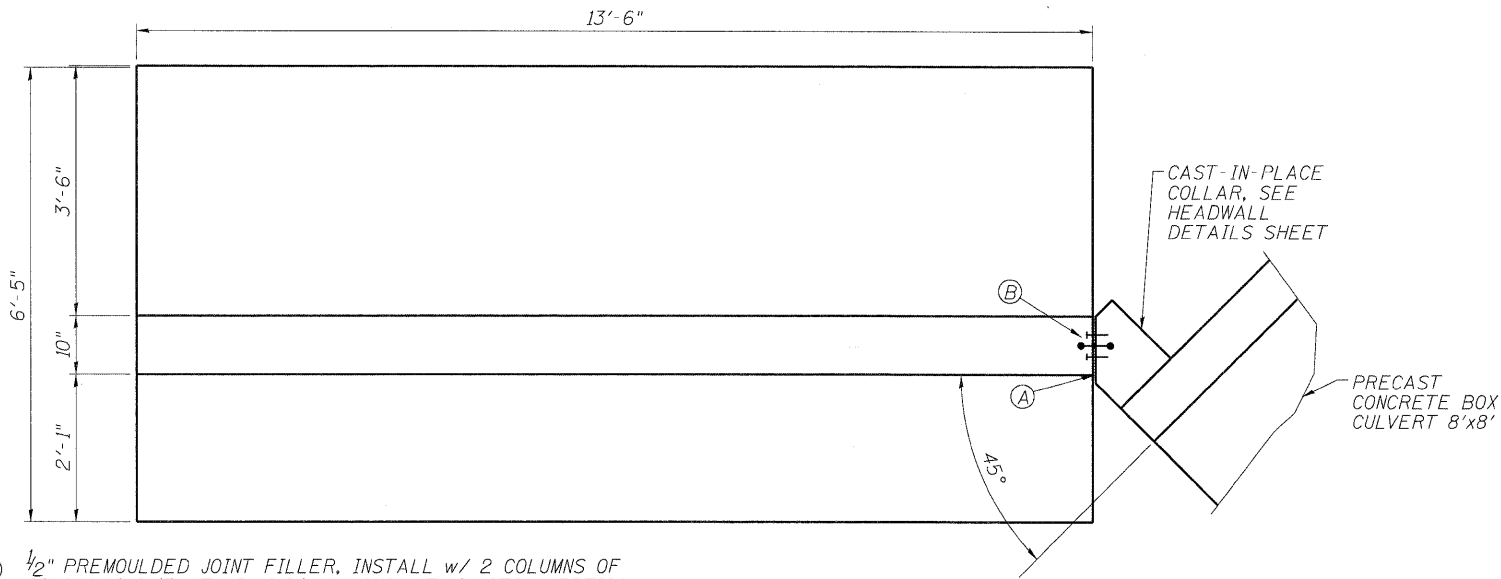
1. CONTRACTOR SHALL COORDINATE PRECAST CULVERT DIMENSIONS WITH SUPPLIER BEFORE ORDERING MATERIALS.
2. ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS, EXCEPT AS NOTED.
3. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
4. TO CONNECT CAST-IN-PLACE COLLAR TO PRECAST BOX, PROVIDE 3/4" HOOKED BOLTS WITH EMBEDDED INSERTS AT 12" MAXIMUM CENTERS. HOOKED BOLTS SHALL EXTEND 6" INTO HEADWALL AND 9" INTO SIDES OF COLLAR. COST SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 8'x8' ITEM.
5. PROVIDE PROTECTIVE COAT ON TOP HORIZONTAL SURFACES AND TOP 6" ON INSIDE FACES OF HEADWALLS.

HEADWALL DETAILS (WEST HEADWALL)
WEST RIVER ROAD OVER UNNAMED TRIBUTARY TO KANKAKEE RIVER
(0.1 MI NORTH OF IL ROUTE 113)
F.A.U. RT. 0327
SECTION 112 T-2
WILL COUNTY
STA. 82+55.73
STRUCTURE NO. 099-0520

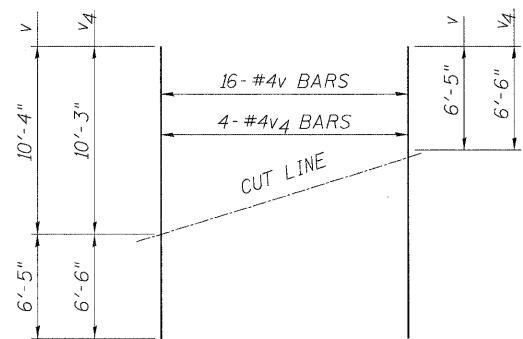
DESIGNED	ST
CHECKED	SLV
DRAWN	ST
CHECKED	DJB

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 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

SHEET NO. S3 OF S5 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0327	112 T-2	WILL	22	15
D-91-198-10			CONTRACT NO. 60J17		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



- (A) 1/2" PREMOULDED JOINT FILLER, INSTALL w/ 2 COLUMNS OF CONC. NAILS (FLAT HD. C.S.), 1" LONG, AT 12" CTS., VERTICAL.
- (B) 6" HOLLOW BULB TYPE NONMETALLIC WATER SEAL (6" FROM TOP OF WALL TO TOP OF FOOTING).



PLAN

FIELD CUTTING DIAGRAM

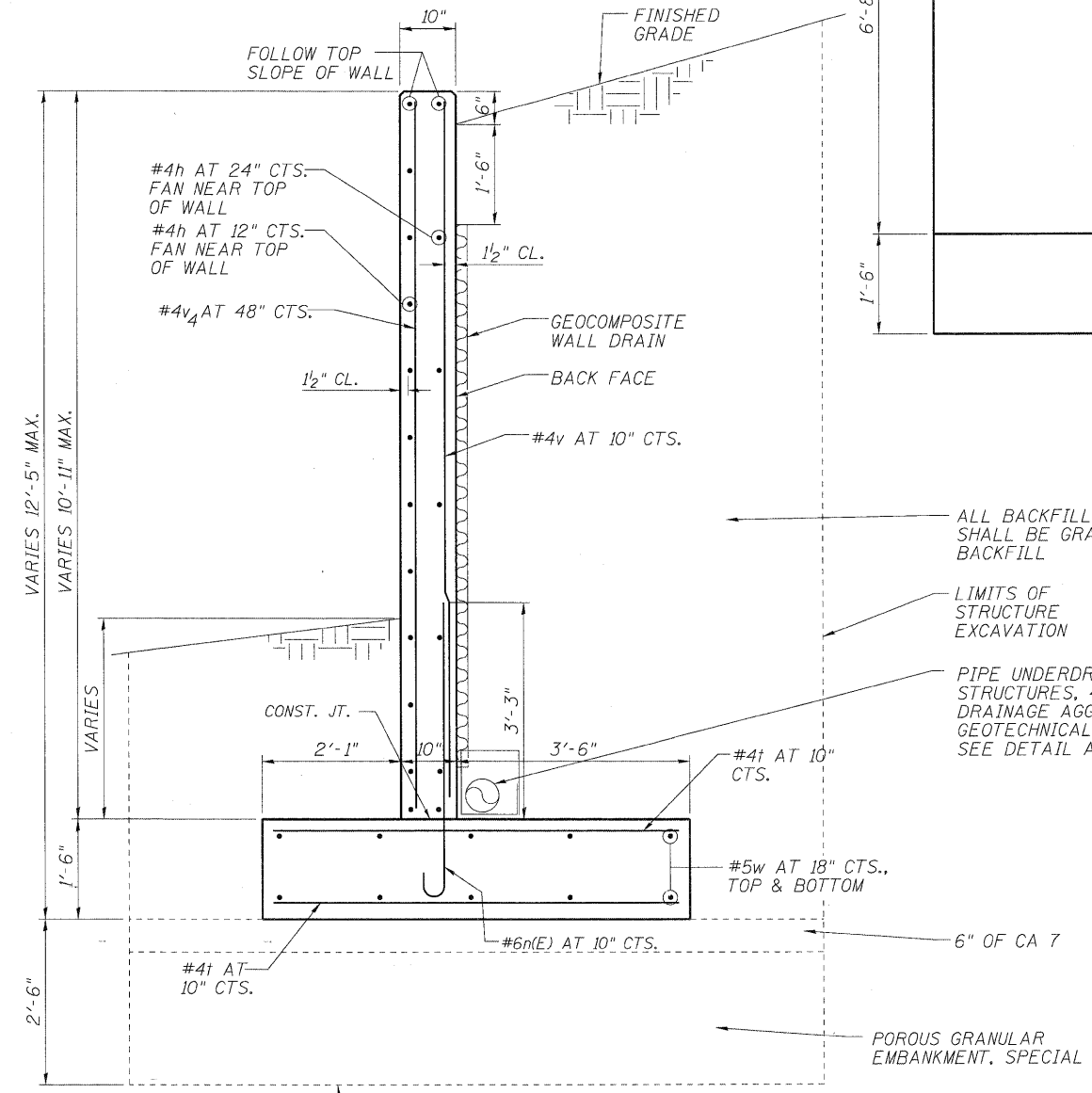
Order v & v₄ bars full length. Cut as shown and use remainder of bars in opposite wingwall.

NOTES

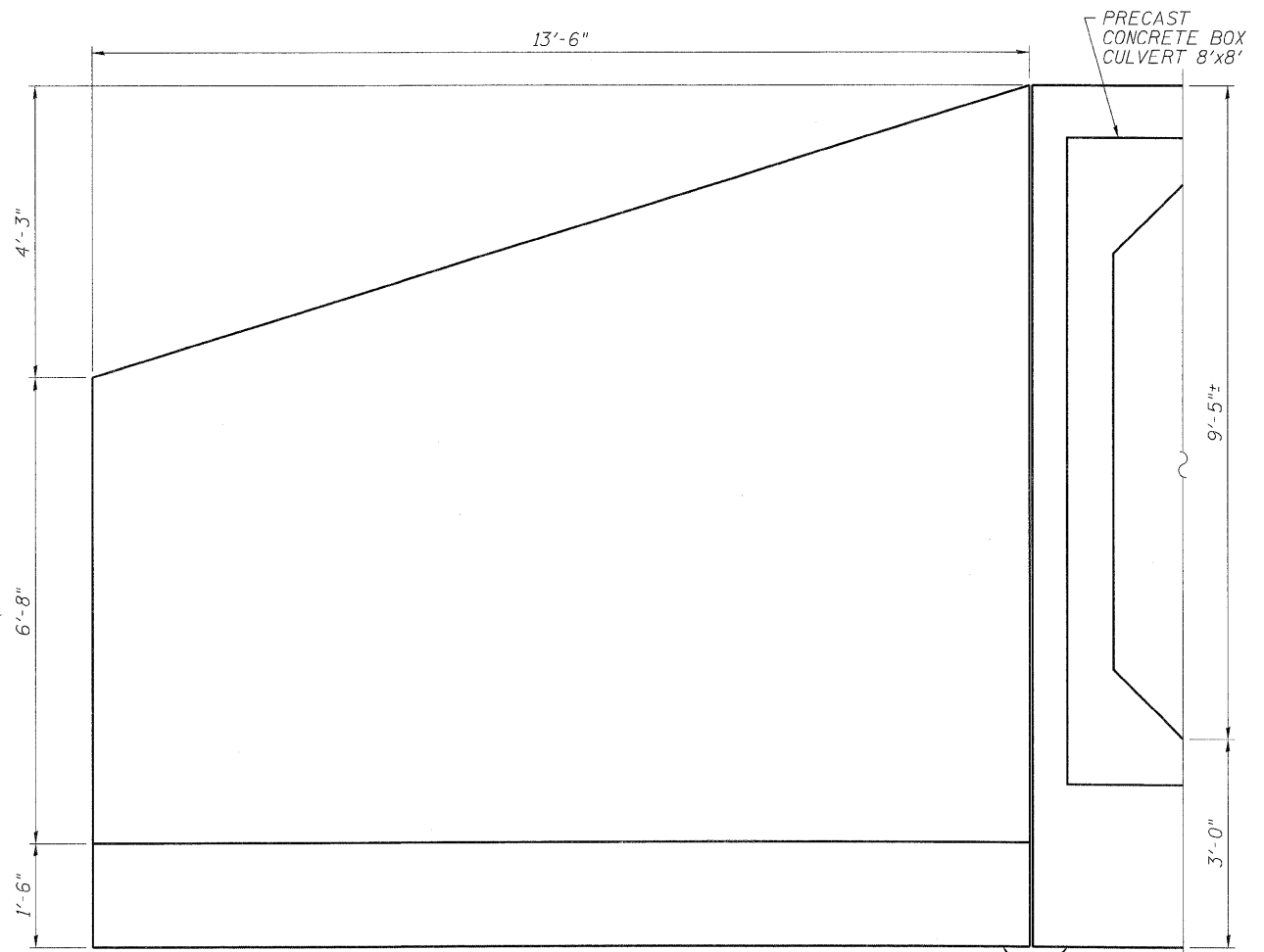
1. ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS, EXCEPT AS NOTED.
2. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
3. SEE HEADWALL DETAILS SHEET FOR BILL OF MATERIAL.
4. PROVIDE PROTECTIVE COAT ON TOP HORIZONTAL SURFACES AND TOP 12" ON INSIDE FACES OF WINGWALLS.
5. THE MAXIMUM DESIGN SOIL BEARING PRESSURE AT THE TOE OF THE WINGWALL FOOTING IS 2500 PSF.
6. THE COST 6" OF CA 7 UNDER WINGWALL SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 8'x8' ITEM.
7. THE COST OF FURNISHING AND INSTALLATION OF DRAINAGE AGGREGATE AND GEOTECHNICAL FABRIC WILL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS FOR STRUCTURES, 6".

DESIGNED	ST
CHECKED	SLV
DRAWN	ST
CHECKED	DJB

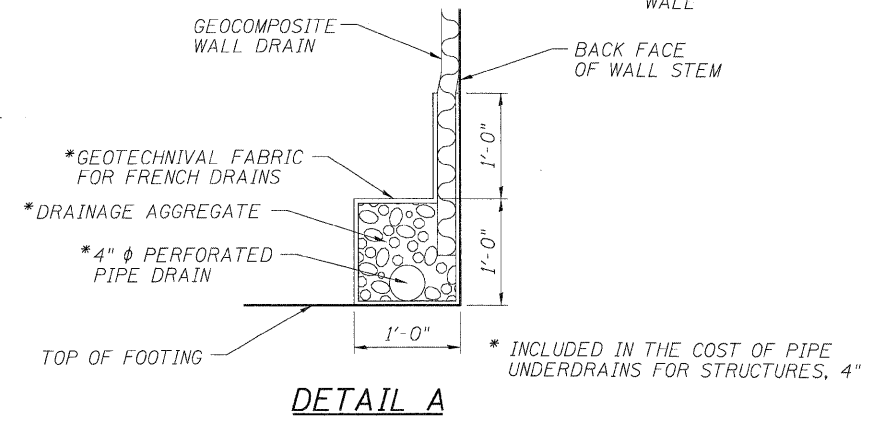
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 CONSULTING ENGINEERS
 1560 WALL ST, SUITE 222
 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100



CROSS SECTION



ELEVATION

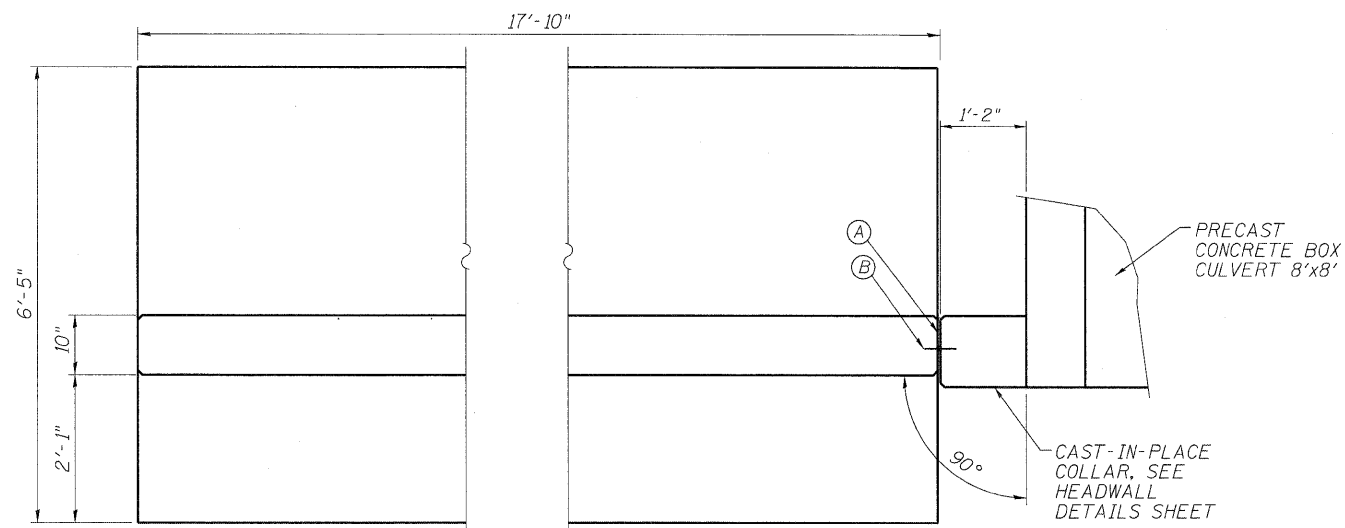


DETAIL A

WINGWALL DETAILS (EAST WINGWALL)
WEST RIVER ROAD OVER UNNAMED TRIBUTARY TO KANKAKEE RIVER
 (0.1 MI NORTH OF IL ROUTE 113)

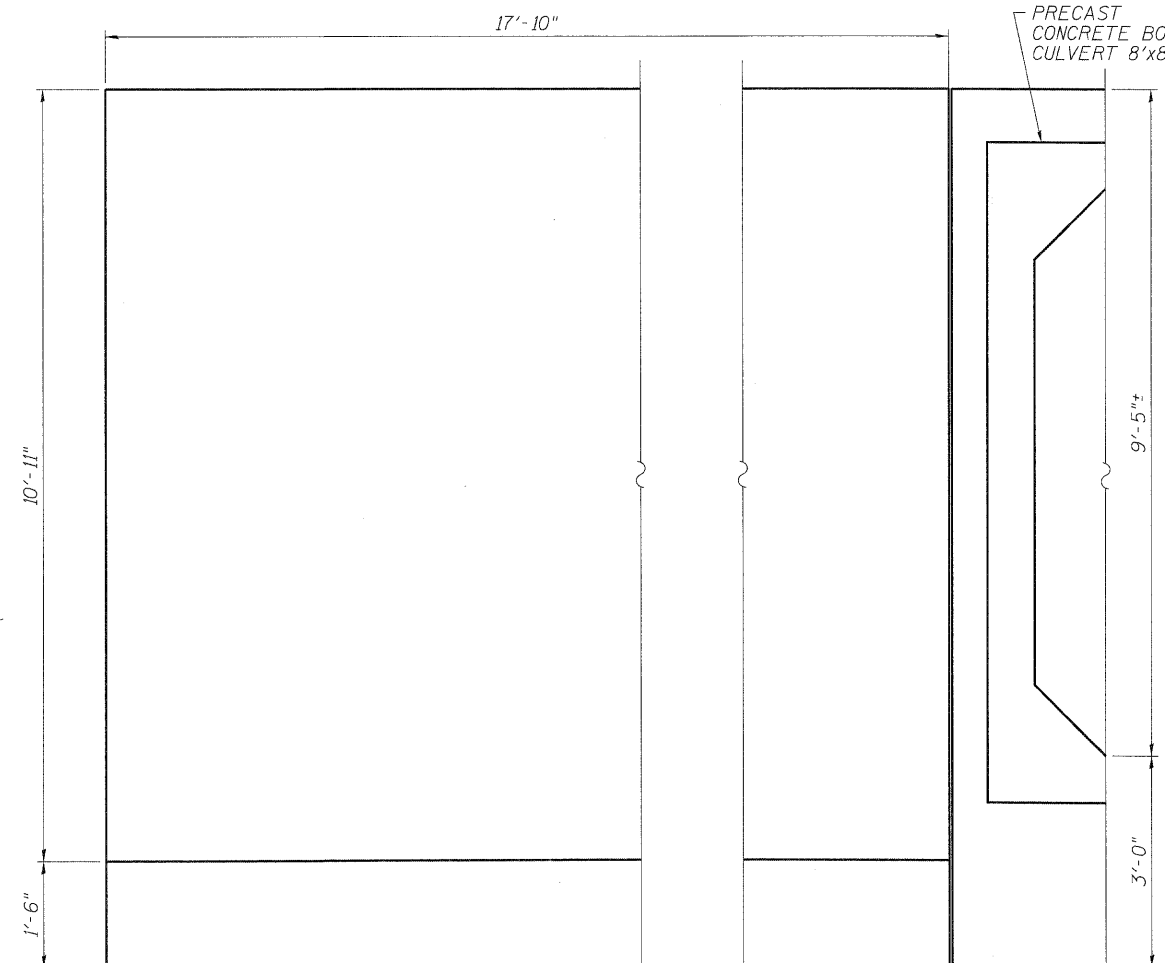
F.A.U. RTE. 0327
 SECTION 112 T-2
 WILL COUNTY
 STA. 82+55.73
 STRUCTURE NO. 099-0520

SHEET NO. S4 OF S5 SHEETS	F.A.U. RTE. 0327	SECTION 112 T-2	COUNTY WILL	TOTAL SHEETS 22	SHEET NO. 16
	D-91-198-10		CONTRACT NO. 60J17		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



- (A) 1/2" PREMOULDED JOINT FILLER, INSTALL w/ 2 COLUMNS OF CONC. NAILS (FLAT HD. C.S.), 1" LONG, AT 12" CTS., VERTICAL.
- (B) 6" HOLLOW BULB TYPE NONMETALLIC WATER SEAL (6" FROM TOP OF WALL TO TOP OF FOOTING).

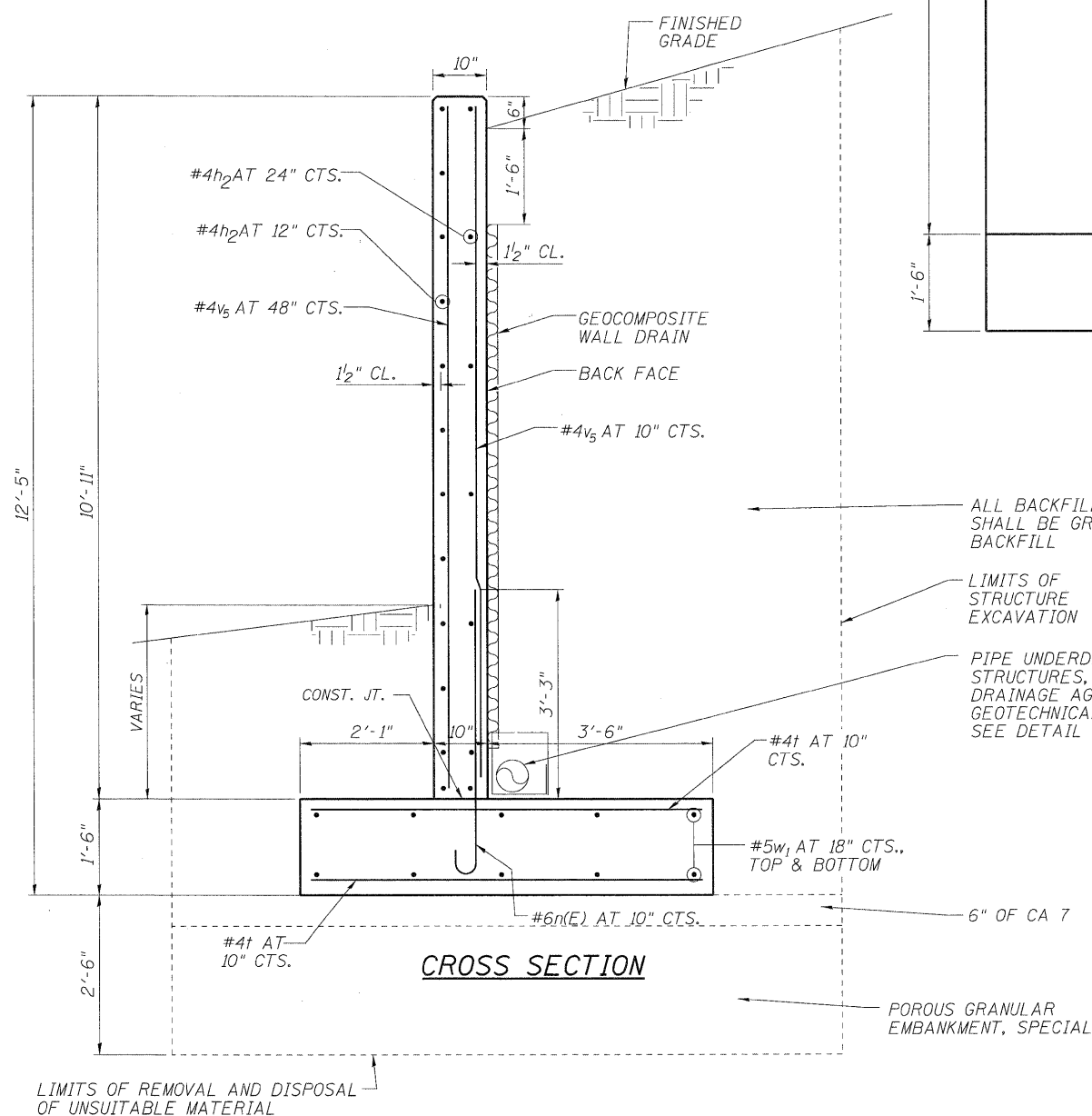
PLAN



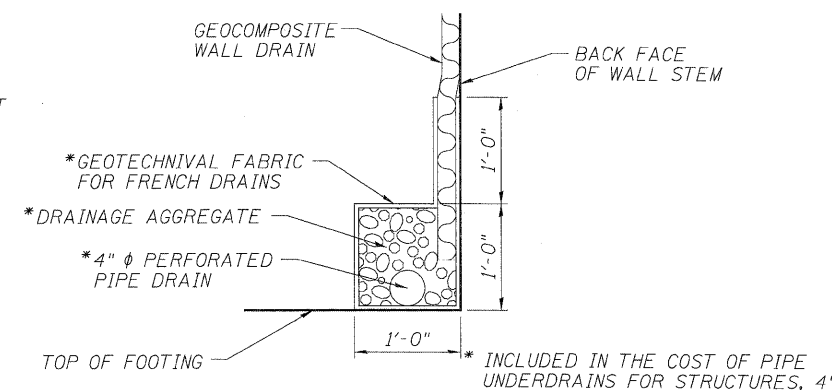
ELEVATION

NOTES

1. ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS, EXCEPT AS NOTED.
2. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
3. SEE HEADWALL DETAILS SHEET FOR BILL OF MATERIAL.
4. PROVIDE PROTECTIVE COAT ON TOP HORIZONTAL SURFACES AND TOP 12" ON INSIDE FACES OF WINGWALLS.
5. THE MAXIMUM DESIGN SOIL BEARING PRESSURE AT THE TOE OF THE WINGWALL FOOTING IS 2500 PSF.
6. THE COST 6" OF CA 7 UNDER WINGWALL SHALL BE INCLUDED IN THE PRECAST CONCRETE BOX CULVERT 8'x8' ITEM.
7. THE COST OF FURNISHING AND INSTALLATION OF DRAINAGE AGGREGATE AND GEOTECHNICAL FABRIC WILL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS FOR STRUCTURES, 6".



CROSS SECTION



DETAIL A

WINGWALL DETAILS (WEST WINGWALL)
WEST RIVER ROAD OVER UNNAMED TRIBUTARY TO KANKAKEE RIVER
(0.1 MI NORTH OF IL ROUTE 113)
F.A.U. RT. 0327
SECTION 112 T-2
WILL COUNTY
STA. 82+55.73
STRUCTURE NO. 099-0520

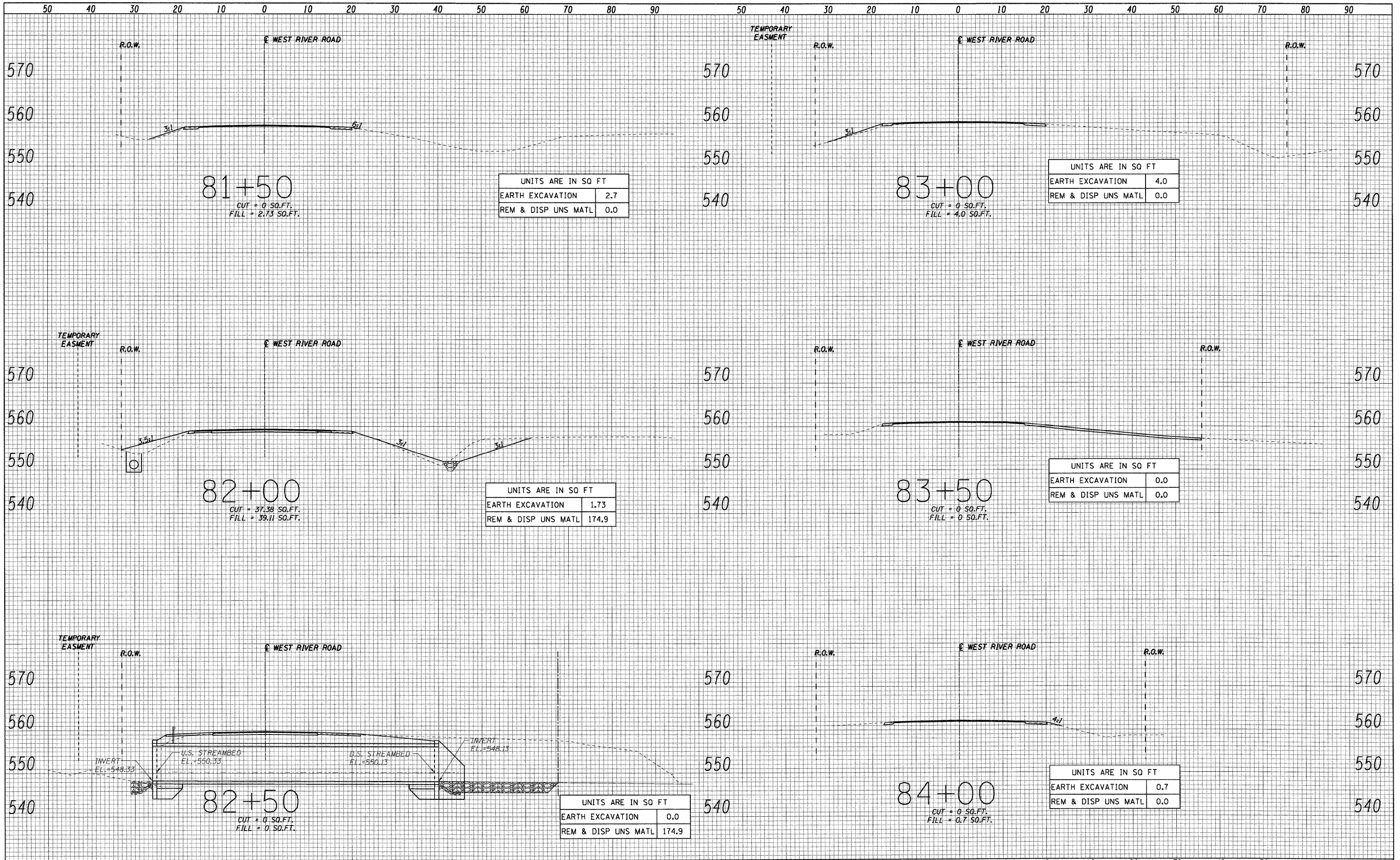
DESIGNED -	ST
CHECKED -	SLV
DRAWN -	ST
CHECKED -	DJB

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 NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

SHEET NO. S5	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0327	112 T-2	WILL	22	17
OF S5 SHEETS	D-91-198-10		CONTRACT NO. 60J17		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____



LOXCO, INC.
 CONSULTING ENGINEERS
 1560 WALL ST., SUITE 222
 NAPERVILLE, ILLINOIS 60563 PH (630) 577-9100

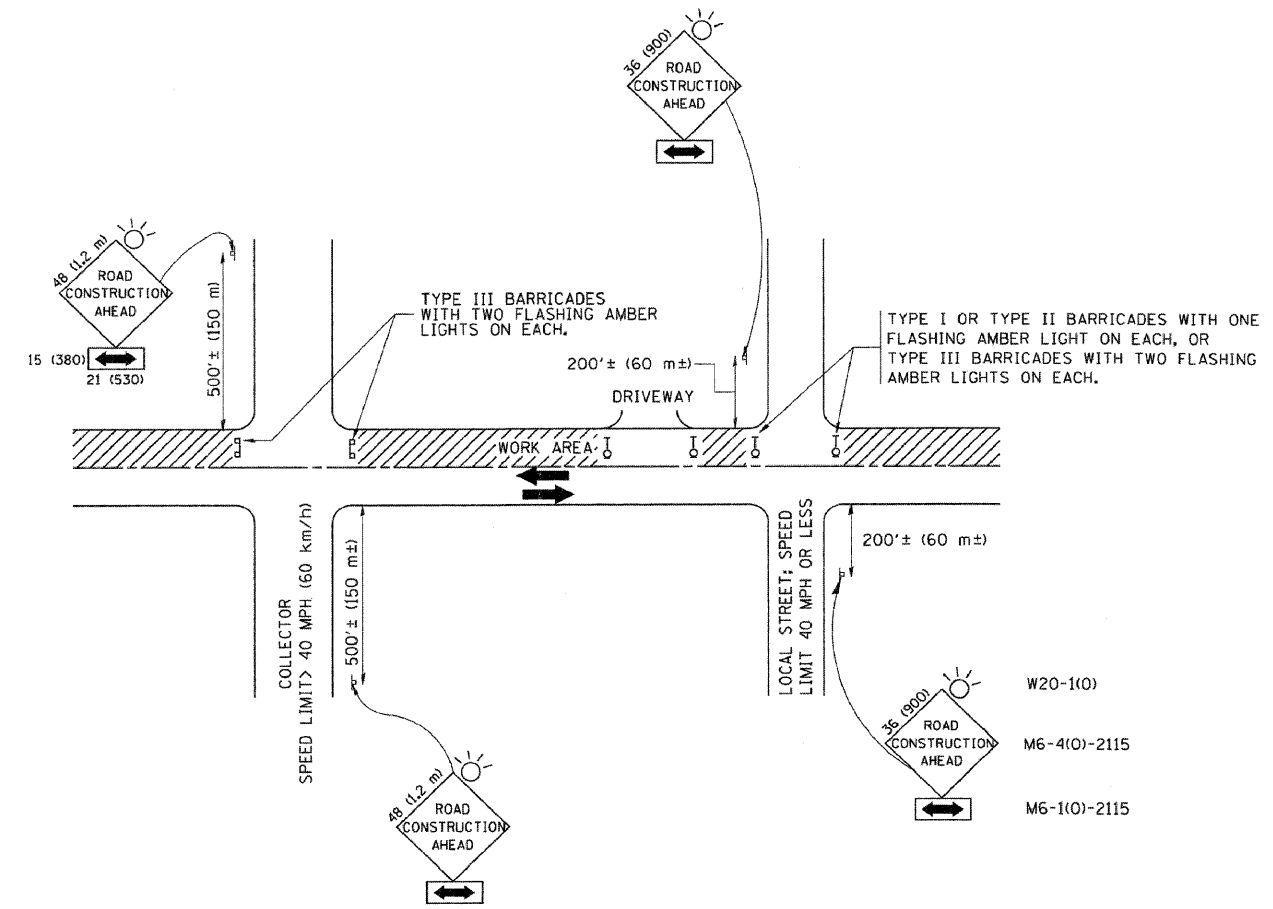
DESIGNED -	ST	REVISED -	
DRAWN -	ST	REVISED -	
CHECKED -	WHE	REVISED -	
DATE -	06/25/2010	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 WEST RIVER ROAD OVER UNNAMED TRIBUTARY (0.1 MI N OF IL RT 113)**

SCALE: 1" = 10' SHEET NO. 1 OF 1 SHEETS STA. 81+40 TO STA. 84+20

F.A.U. RTE. 0327	SECTION 112 T-1	COUNTY WILL	TOTAL SHEETS 22	SHEET NO. 18
D-91-198-10			CONTRACT NO. 60J17	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

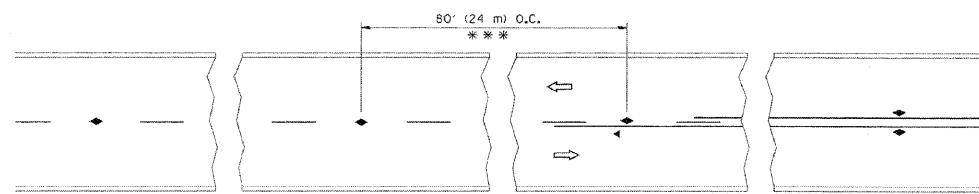
C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

REVISED	- J. OBERLE	10-18-95
REVISED	- A. HOUSEH	03-06-96
REVISED	- A. HOUSEH	10-15-96
REVISED	- T. RAMMACHER	01-06-00

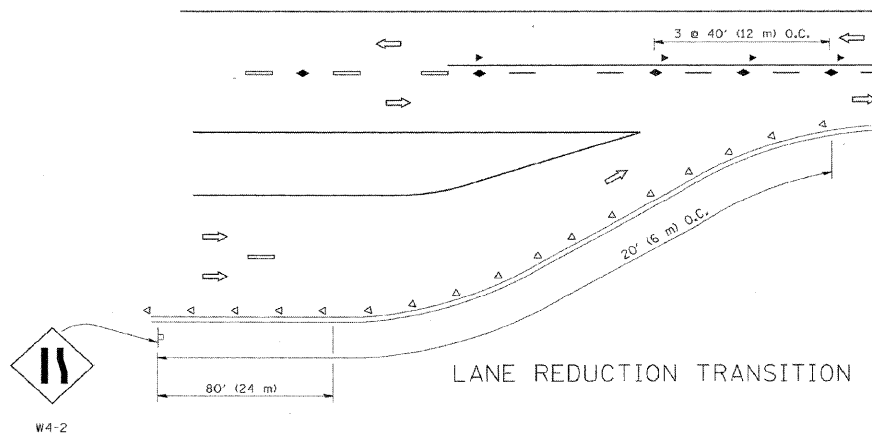
All dimensions are in millimeters (inches) unless otherwise shown.

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

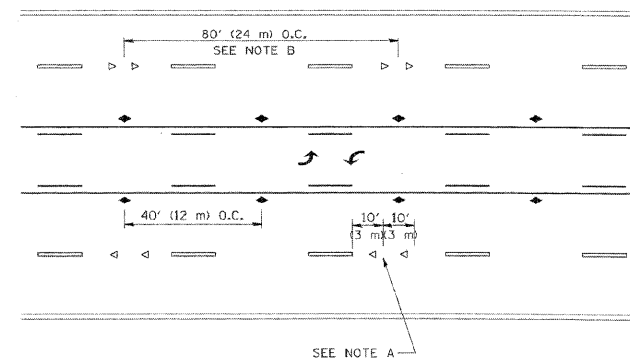


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

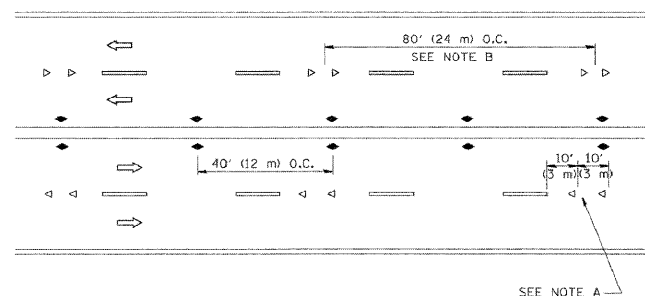
TWO-LANE/TWO-WAY



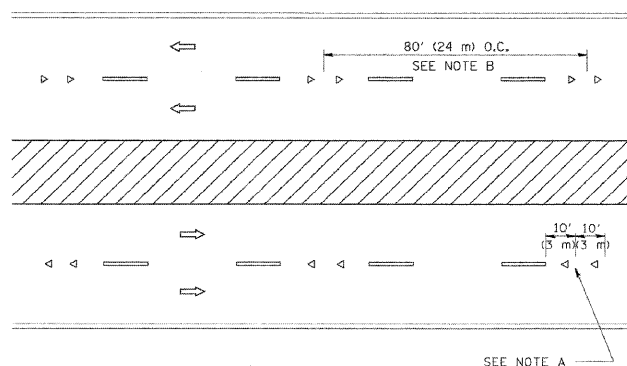
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

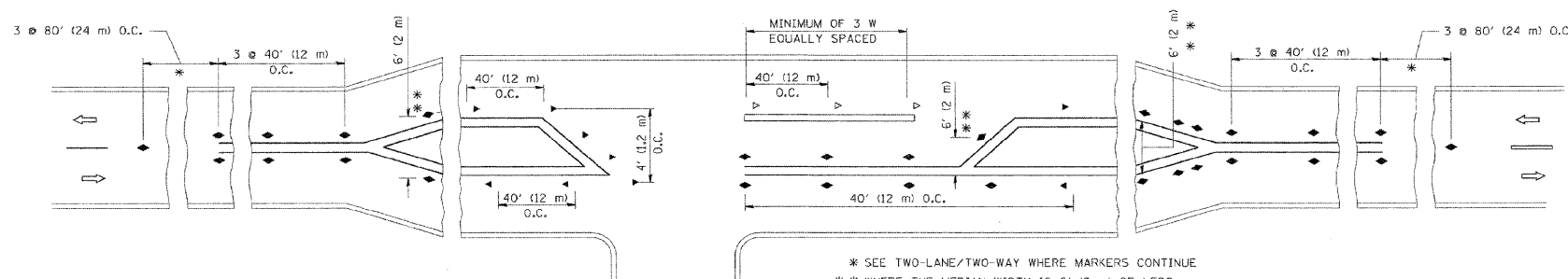
LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

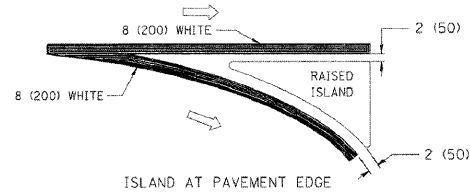
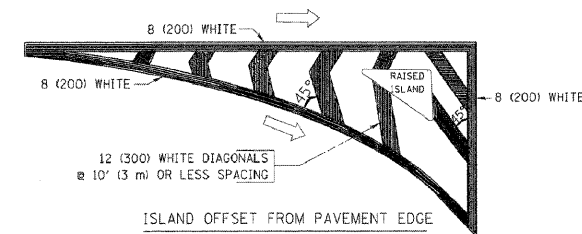
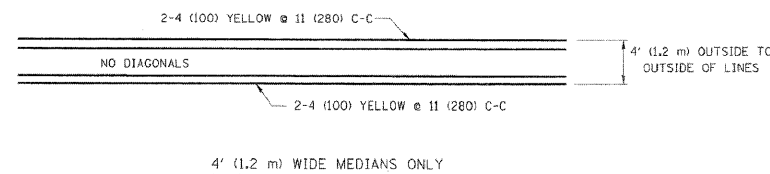
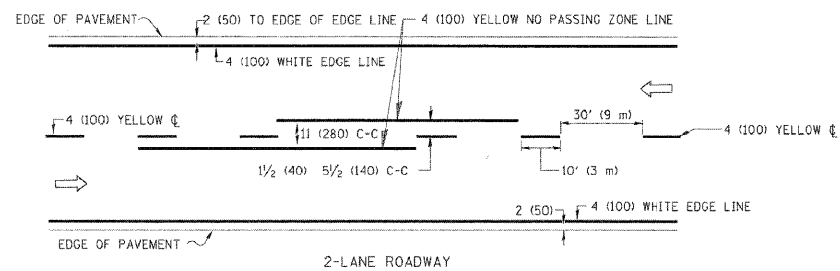
REVISED	- T. RAMMACHER	09-19-94
REVISED	- T. RAMMACHER	03-12-99
REVISED	- T. RAMMACHER	01-06-00
REVISED	- C. JUCIUS	09-09-09



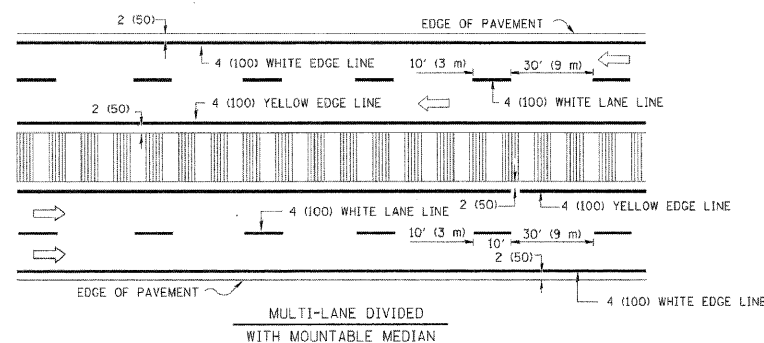
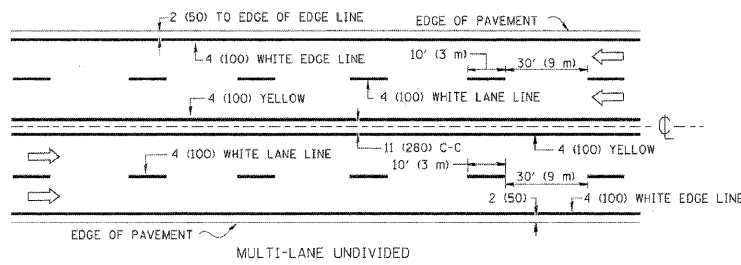
LEFT TURN

TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

All dimensions are in inches (millimeters) unless otherwise shown.

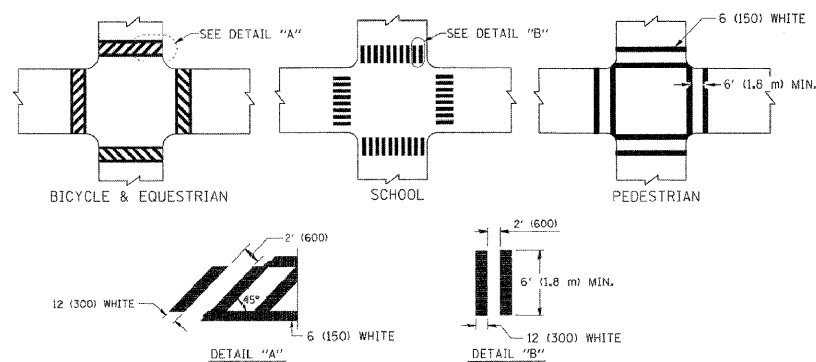


TYPICAL ISLAND MARKING

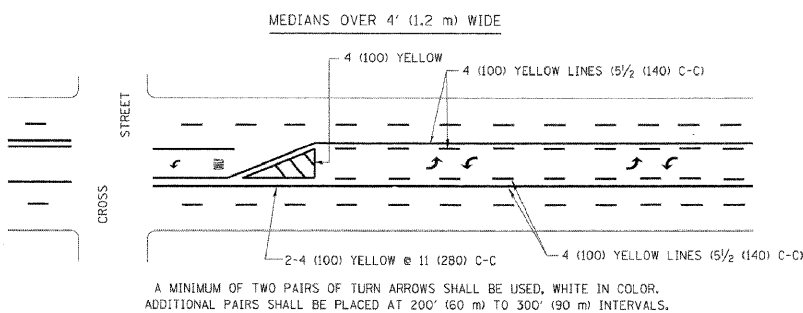
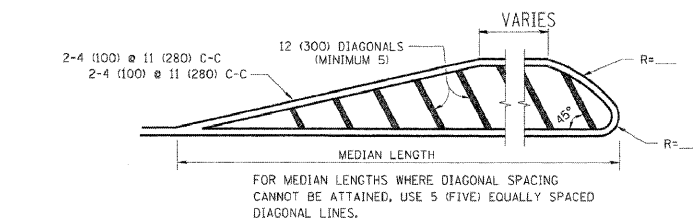


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

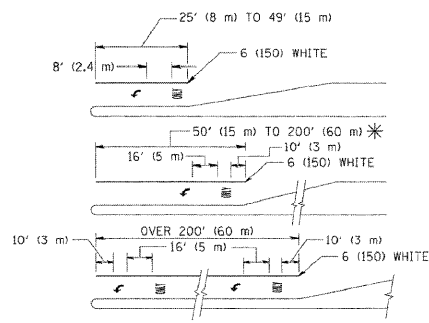


TYPICAL CROSSWALK MARKING



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

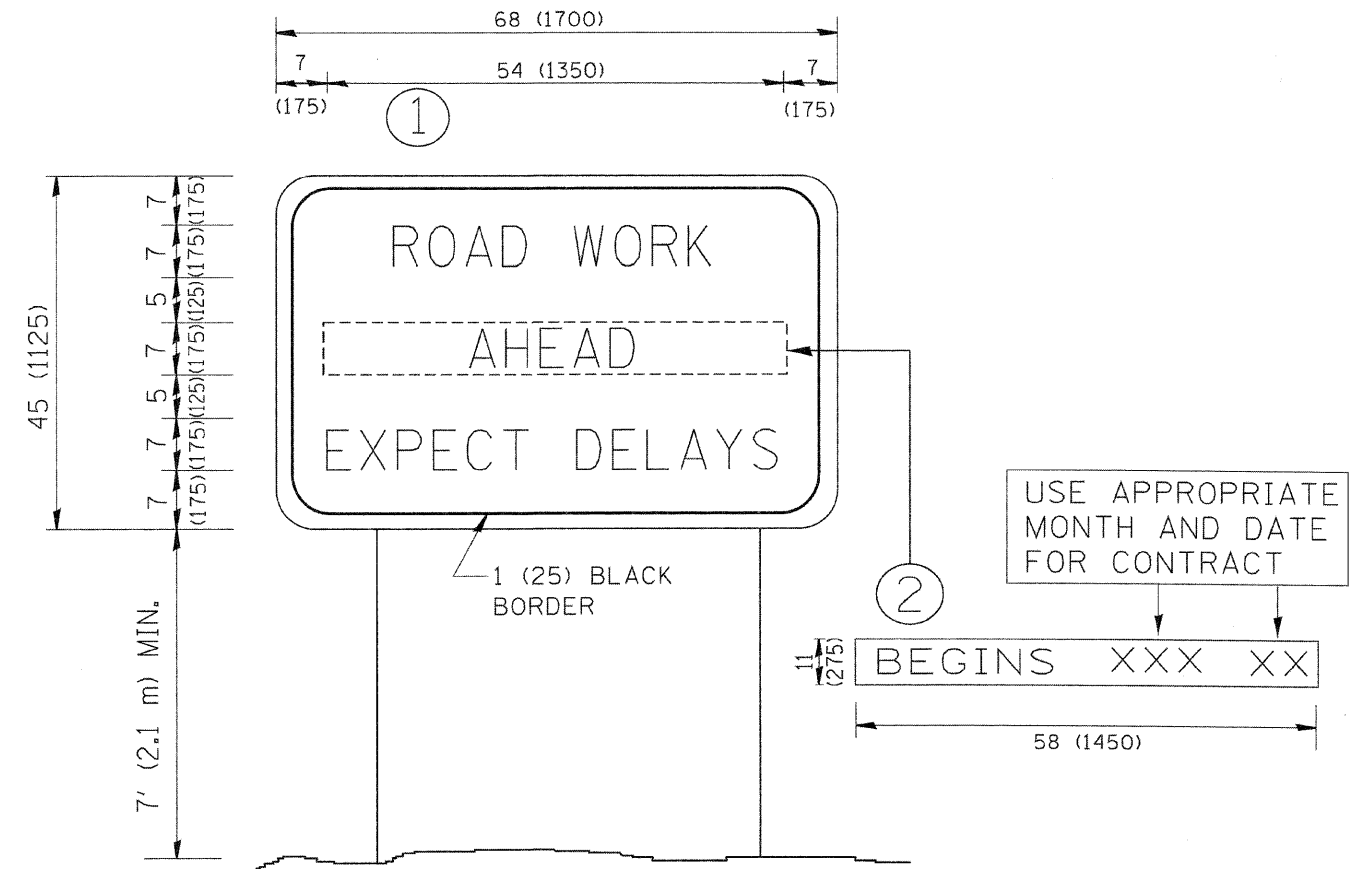
REVISED	-T. RAMMACHER	10-27-94
REVISED	-C. JUCIUS	09-09-09
REVISED	-	
REVISED	-	

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

DISTRICT ONE TYPICAL PAVEMENT MARKINGS



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

REVISED	-	R. MIRS 09-15-97
REVISED	-	R. MIRS 12-11-97
REVISED	-	T. RAMMACHER 02-02-99
REVISED	-	C. JUCIUS 01-31-07

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

**ARTERIAL ROAD
INFORMATION SIGN**

PART OF THE SOUTHEAST 1/4 OF SECTION 11, TWP. 32 N., R. 9 E. OF THE 3RD, P.M., IN WILL COUNTY, ILLINOIS

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1H00001TE	MARJORIE W. FARRAR AS TRUSTEE, CAROLYN SAYLER & ROBERT SHENK	0.934	NA	NA	0	NA	0.032	TEMPORARY	(01)24-11-400-018(P)

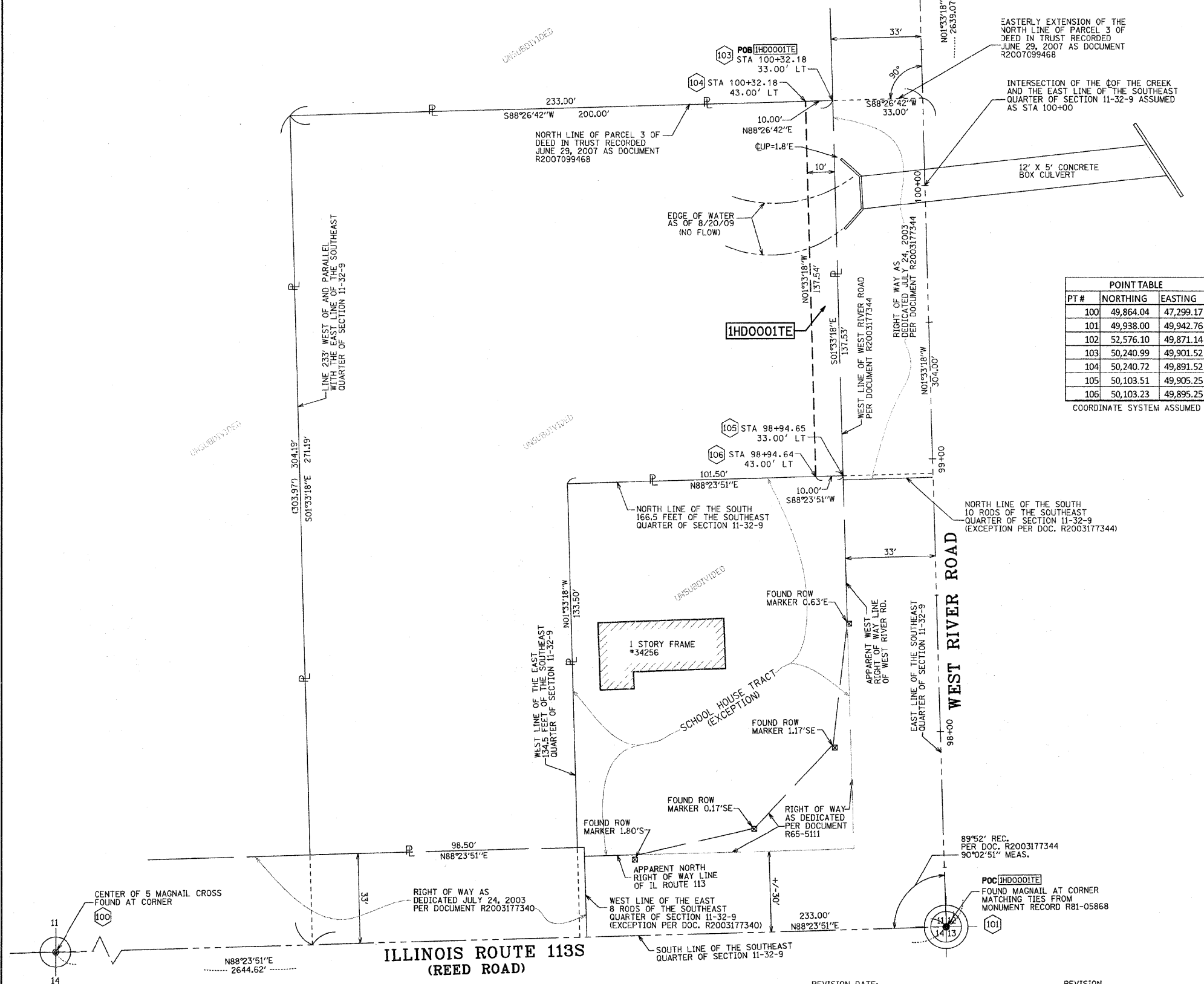
LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

Bearings are referenced to the Illinois State Plane Coordinate Grid System, NAD83, East Zone, Determined by G.P.S observation

- IRON PIPE OR ROD FOUND ○ REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET @ FOUND PK NAIL
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

GRAPHIC SCALE
FEET
0 20,40
SCALE: 1" = 20'



POINT TABLE

PT #	NORTHING	EASTING
100	49,864.04	47,299.17
101	49,938.00	49,942.76
102	52,576.10	49,871.14
103	50,240.99	49,901.52
104	50,240.72	49,891.52
105	50,103.51	49,905.25
106	50,103.23	49,895.25

COORDINATE SYSTEM ASSUMED

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 11, TOWNSHIP 32 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS _____ DAY OF _____ 20 ____ A.D., AT ROSEMONT, ILLINOIS

C. BRIAN LOUNSBURY
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002841
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

NOTE: THE CORNERS OF THIS TEMPORARY EASEMENT HAVE NOT BEEN SET AT THE REQUEST OF IDOT.

SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WEST RIVER ROAD

SECTION: OVER TRIB. TO COUNTY: WILL
PROJECT: KANKAKEE RIVER JOB NO.: R91-002-10
STATION 98+94.64 TO STATION 100+32.18
SCALE: 1"=20' SHEET 2 OF 2

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

RECEIVED
AUG 28 2009
PLATS & LEGALS

CONTRACT 60J17 Sheet 22A