09-23-11 LETTING ITEM 012

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.U. ROUTE 1257 (DEERFIELD RD.)
OVER EAST SKOKIE DITCH
SECTION 104RB-R
PROJECT: ACBRF-1257(001)
BRIDGE SUPERSTRUCTURE
REMOVAL AND REPLACEMENT
LAKE COUNTY

C-91-008-01

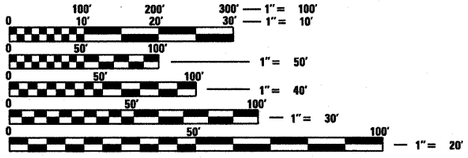
TRAFFIC DATA

F.A.U. 1257
DEERFIELD ROAD
EXISTING ADT: 26,200 (1996)
DESIGN ADT: 30,840 (2015)
SPEED LIMIT: 35 MPH
MINOR ARTERIAL (URBAN)

PROJECT LOCATED IN THE VILLAGE OF HIGHLAND PARK IN LAKE COUNTY

PROJECT DESCRIPTION:

PROJECT INCLUDES REMOVAL AND REPLACEMENT OF SUPERSTRUCTURE DEERFIELD ROAD (CENTRAL AVENUE) OVER THE EAST SKOKIE DITCH IN THE VILLAGE OF HIGHLAND PARK, LAKE COUNTY. PROJECT ALSO INCLUDES REMOVAL AND REPLACEMENT OF APPROACH PAVEMENTS, REMOVAL AND REINSTALLATION OF LIGHT POLE ON THE BRIDGE, AND INSTREAM WORK INCLUDING DEBRIS REMOVAL AND SCOUR PROTECTION.

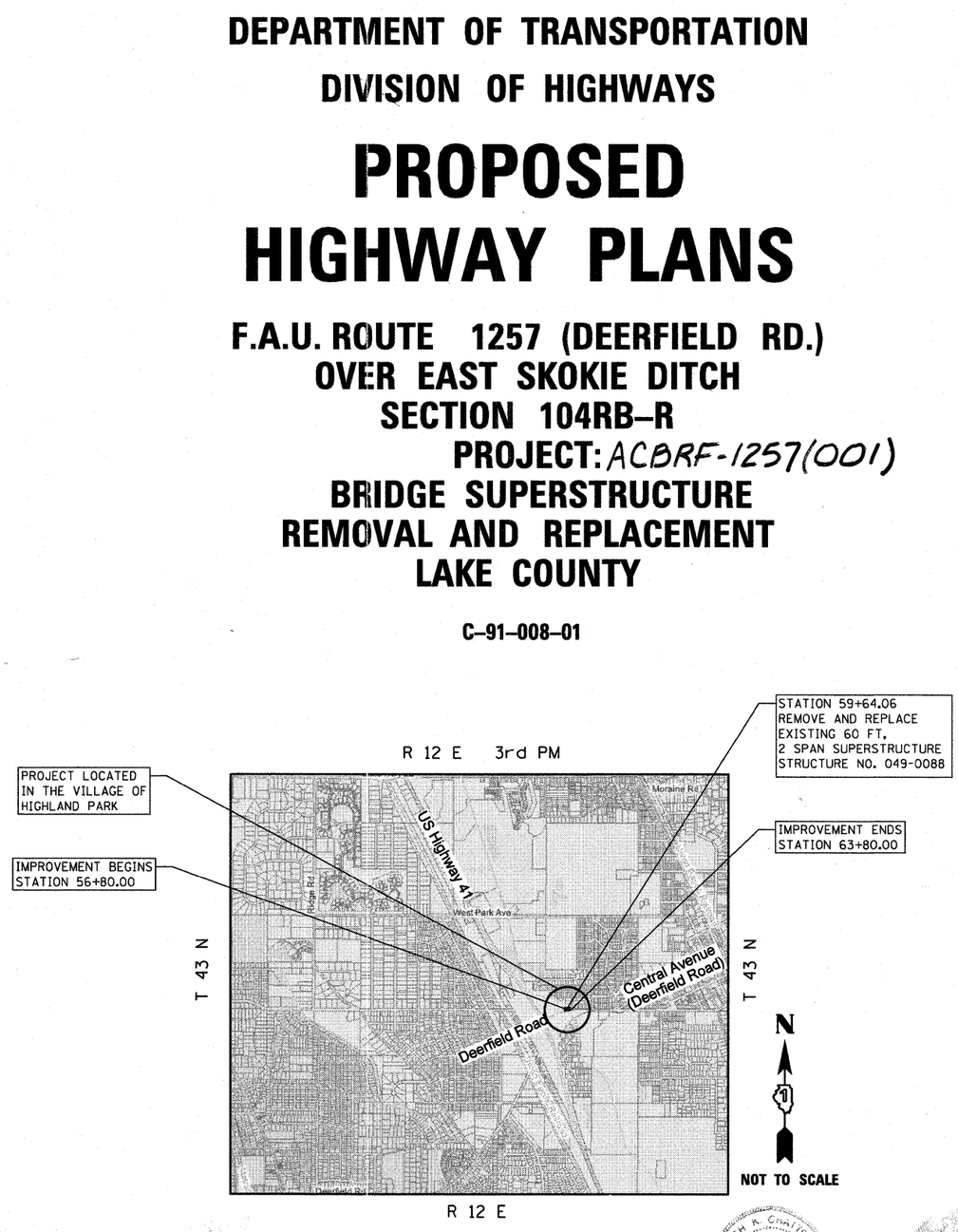


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT MANAGER: RAJENDRA SHAH (847)705-4555

CONTRACT NO. 62102



LOCATION MAP

GROSS & NET LENGTH = 0.132 MILE

D-91-008-01

LOCATION OF SECTION INDICATED THUS: - ■

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 29, 2011
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGIONAL ENGINEER
August 19 2011
Scott E. Stitt, P.E. /bl
acting ENGINEER OF DESIGN AND ENVIRONMENT
August 19 2011
Christine M. Reed /bl
DIRECTOR, DIVISION OF HIGHWAYS

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PRAVIN K. CHATTERJEE
081-005076
LICENSED STRUCTURAL ENGINEER
ILLINOIS
Pravin K. Chatterjee 4/27/2011
EXPIRES: 11-30-2012

THOMAS PETTIETT
ILLINOIS REGISTERED PROFESSIONAL ENGINEER
Thomas Pettiett
Expires 11-30-2011

EPSTEIN
600 W FULTON ST
CHICAGO, ILLINOIS
60661 1259
TEL 312 454 9100
FAX 312 559 1217
WEB www.epsteinglobal.com

INDEX OF SHEETS:

GENERAL NOTES

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

2. 10 FEET TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACTOR UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF HIGHLAND PARK.

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

5. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE II BARRICADE. USE ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE OUTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

7. THE CONTRACTOR SHALL UTILIZE EXTREME CAUTION WHEN DIGGING ADJACENT TO EXISTING UTILITIES AND FACILITIES. UTILITY LOCATION INFORMATION SHOWN ON PLANS NEEDS TO BE FIELD VERIFIED PRIOR TO EXCAVATION OR CONSTRUCTION OF THE PROPOSED STRUCTURE.

8. TEMPORARY CONCRETE BARRIER: THE BARRIER UNIT AT EACH END OF THE INSTALLATION SHALL BE SECURED TO THE PAVEMENT USING ALL SIX ANCHORING PINS FOR "F" SHAPE. THE BARRIER ENDS ARE TO BE PROTECTED WITH TEMPORARY IMPACT ATTENUATORS.

9. 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.

10. ALL REMOVAL OF EXISTING IMPROVEMENTS WILL REQUIRE A FULL DEPTH SAWCUT AT THE LIMIT OF REMOVAL. COST OF SAW CUTTING IS INCLUDED IN THE PAYMENT OF THE REMOVAL ITEM.

11. THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT OR SURFACE COURSES, UNLESS OTHERWISE INDICATED.

12. THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.5 GAL/SQ.YD.

13. CONTRACTOR SHALL ADHERE TO VILLAGE OF HIGHLAND PARK'S WORKING HOURS.

14. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS 404 PERMIT. THE PERMIT ISSUED TO THE DEPARTMENT DOES NOT COVER IN STREAM WORK BY THE CONTRACTOR; THEREFORE AFTER AWARD, THE CONTRACTOR WILL NEED TO COORDINATE AND HAVE HIS WORK PLAN APPROVED BY THE CORPS. GUIDELINES ON ACCEPTABLE IN STREAM WORK TECHNIQUES CAN BE FOUND ON THE CORPS WEBSITE. THIS WORK WILL BE INCLUDED IN THE COST OF STRUCTURE EXCAVATION.

15. THE CONTRACTOR WILL NOT BE ALLOWED TO PROCEED WITH ANY WORK ON THIS PROJECT REQUIRING A PERMANENT OR OVERNIGHT LANE(S)/SHOULDER(S) CLOSURES OR LANE SHIFTS ON DEERFIELD ROAD BETWEEN THE DATES OF DECEMBER 15, 2011 AND APRIL 1, 2012. TEMPORARY DAYTIME LANE/SHOULDER CLOSURES AND LANE SHIFTS MAY BE ALLOWED BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM WITH THE WRITTEN PERMISSION/APPROVAL OF THE ENGINEER AND THE BUREAU OF TRAFFIC OPERATIONS. THE COST TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT AND THIS RESTRICTION SHALL NOT BE CONSIDERED AS A BASIS FOR TIME EXTENSION.

16. ALL WORK NECESSARY FOR THE PLACEMENT OF RIP RAP INCLUDING EXCAVATION AND DEWATERING SHALL BE INCLUDED IN THE COST OF THE RIP RAP. REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES WILL BE PAID SEPARATELY.

I.D.O.T. HIGHWAY STANDARDS

000001-	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-	AREAS OF REINFORCEMENT BARS
280001-	TEMPORARY EROSION CONTROL SYSTEMS
420001-	PAVEMENT JOINTS
420401-	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-	NAME PLATE FOR BRIDGES
602001-	CATCH BASIN TYPE A
602306-	INLET TYPE B
604001-	FRAME AND LID TYPE 1
606001-	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-	PC CONCRETE ISLANDS AND MEDIANS
630001-	STEEL PLATE BEAM GUARDRAIL
631011-	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-	TRAFFIC BARRIER TERMINAL, TYPE 6
635011-	REFLECTOR MARKER AND MOUNTING DETAILS
701321-	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701601-	URBAN LANE CLOSURE MULTILANE 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
701606-	LANE CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN, FOR SPEED < 45 MPH
701901-	TRAFFIC CONTROL DEVICES
704001-	TEMPORARY CONCRETE BARRIER
720001-	SIGN PANEL MOUNTING DETAILS
720006-	SIGN PANEL ERECTION DETAILS
780001-	TYPICAL PAVEMENT MARKINGS
781001-	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE CITY OF HIGHLAND PARK, DIRECTOR OF PUBLIC WORKS (847-432-0807), REGARDING THE PASSAGE OF EMERGENCY VEHICLES THROUGH THE CONSTRUCTION ZONE.

2. CONTRACTOR SHALL COORDINATE WITH PACE SUBURBAN BUS TRANSIT REGARDING CONSTRUCTION STAGING.

3. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE PROTECTIVE SHIELDING TO PROTECT WATERWAY FROM ANY FALLING DEBRIS.

4. THE CONTRACTOR SHALL CONTACT MR. LARRY KING, CITY FORESTER FOR HIGHLAND PARK, AT (847) 926-1149 AT LEAST 3 WEEKS PRIOR TO THE DISTURBANCE OF THE MEDIAN TO ALLOW FOR CORDINATING SALVAGE OF PLANT MATERIAL.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS

SCALE: N/A | SHEET NO. 1 OF 1 SHEETS | STA. NA | TO STA. NA

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	2
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FEDERAL 20% STATE ROADWAY 0004 URBAN	80% FEDERAL 20% STATE BRIDGE 0014 URBAN	80% FEDERAL 20% STATE LANDSCAPE 0031 URBAN	80% FEDERAL 20% STATE TRAINEES 0042 URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	90	90			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	60	60			
20200100	EARTH EXCAVATION	CU YD	200	200			
20800150	TRENCH BACKFILL	CU YD	126	126			
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	160	160			
25000312	SEEDING, CLASS 4A	ACRE	0.25	0.25			
25000110	SEEDING, CLASS 1A	ACRE	0.25	0.25			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	3	3			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3			
25100115	MULCH, METHOD 2	ACRE	0.25	0.25			
25100630	EROSION CONTROL BLANKET	SQ YD	341	341			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	9	9			
28000400	PERIMETER EROSION BARRIER	FOOT	674	674			
28000510	INLET FILTERS	EACH	10	10			
28100109	STONE RIPRAP, CLASS A5	SQ YD	314		314		
28200200	FILTER FABRIC	SQ YD	314		314		
35101600	AGGREGATE BASE COURSE, TYPE B, 4"	SQ YD	673	673			
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	327	327			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	452	452			
44003100	MEDIAN REMOVAL	SQ FT	1371	1371			
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1		
50102400	CONCRETE REMOVAL	CU YD	36		36		
50200100	STRUCTURE EXCAVATION	CU YD	98		98		
50300100	FLOOR DRAINS	EACH	4		4		
50300225	CONCRETE STRUCTURES	CU YD	60		60		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	660		660		
50300260	BRIDGE DECK GROOVING	SQ YD	1,104		1,104		
50300300	PROTECTIVE COAT	SQ YD	1,311		1,311		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	187,230		187,230		
50800515	BAR SPLICERS	EACH	84		84		
51500100	NAME PLATES	EACH	1		1		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	142	142			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	65		65		
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1			
60240210	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	EACH	3	3			
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1			

• DENOTES SPECIAL PROVISION

Rev.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	3
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FEDERAL 20% STATE ROADWAY 0004 URBAN	80% FEDERAL 20% STATE BRIDGE 0014 URBAN	80% FEDERAL 20% STATE LANDSCAPE 0031 URBAN	80% FEDERAL 20% STATE TRAINEES 0042 URBAN
	60500305	FILLING INLETS	EACH	4	4			
	60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	454	454			
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	108	108			
	60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	1360	1360			
	60801006	FLAP GATE 6"	EACH	2	2			
	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	12.5	12.5			
	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	3			
	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	3	3			
	63200310	GUARDRAIL REMOVAL	FOOT	195	195			
•	63300725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	14	14			
•	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	294	294			
•	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1			
•	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1			
•	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			
	67100100	MOBILIZATION	L SUM	1	1			
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	79	79			
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	519	519			
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4410	4410			
	70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	384	384			
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	344	344			
	70300520	PAVEMENT MARKING TAPE, TYPE III, 4"	FOOT	4410	4410			
	70300550	PAVEMENT MARKING TAPE, TYPE III, 8"	FOOT	384	384			
	70300560	PAVEMENT MARKING TAPE, TYPE III, 12"	FOOT	344	344			
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2214	2214			
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	325	325			
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5			
	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	440	440			
	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	119	119			
	78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	215	215			
	78008340	POLYUREA PAVEMENT MARKING TYPE II - LINE 8"	FOOT	148	148			
	78008350	POLYUREA PAVEMENT MARKING TYPE II - LINE 12"	FOOT	52	52			
	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	47	47			
	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	8	8			
	78200410	GUARDRAIL MARKERS, TYPE A	EACH	15	15			
	78200530	BARRIER WALL MARKERS, TYPE C	EACH	66	66			
	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3			

• DENOTES SPECIAL PROVISION

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	4
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FEDERAL 20% STATE ROADWAY 0004 URBAN	80% FEDERAL 20% STATE BRIDGE 0014 URBAN	80% FEDERAL 20% STATE LANDSCAPE 0031 URBAN	80% FEDERAL 20% STATE TRAINEES 0042 URBAN
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	672	672			
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	52	52			
	81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	639	639			
	81200120	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	150	150			
	81300320	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8"X8"X6"	EACH	4	4			
	81702500	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4/C NO. 6	FOOT	939	939			
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	639	639			
Δ •	Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1	1			
•	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
•	Z0015550	DEBRIS REMOVAL	CU YD	16	16			
•	Z0026407	TEMPORARY SHEET PILING	SQ FT	258		258		
•	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1			
•	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1			
•	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	228	228			
•	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	6			
•	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	217		217		
•	Z0062456	TEMPORARY PAVEMENT	SQ YD	357	357			
•	Z0065700	SLOPE WALL REPAIR	SQ YD	62		62		
•	Z0076600	TRAINEES	HOUR	1000				1000
	B2006268	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 7' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	6			6	
	C2C09918	SHRUB, SPIREA X BUMALDA GOLDFLAME (GOLD FLAME BUMALD SPIREA), 18" HEIGHT, CONTAINER	EACH	30			30	
	K0012980	PERENNIAL PLANTS, ORNAMENTAL TYPE, QUART POT	UNIT	0.20			0.20	
	K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	2.15			2.15	
•	X0323491	SLOPE WALL CRACK SEALING	FOOT	217		217		
•	X0324534	REMOVE AND REINSTALL LIGHT POLES	L SUM	1	1			
•	X0326243	SEDIMENT CONTROL, SILT CURTAIN	L SUM	1	1			
•	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	78		78		
•	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1			
•	X6310176	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	1	1			
•	X6310218	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	1	1			
•	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
•	X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	4410	4410			
•	X7030045	WET REFLECTIVE TEMPORARY TAPE TYPE III, 8 INCH	FOOT	384	384			
•	X7030050	WET REFLECTIVE TEMPORARY TAPE TYPE III, 12 INCH	FOOT	344	344			
	K0005200	ANNUAL PLANTS, BEGONIAS, 1 QUART	UNIT	60			60	
	C2C06963	SHRUB, ROSA BONICA (BONICA MEIDILAND ROSE), 3-GALLON CONTAINER GROWN	EACH	30			30	

Δ Non-participating - 100% State

• DENOTES SPECIAL PROVISION

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

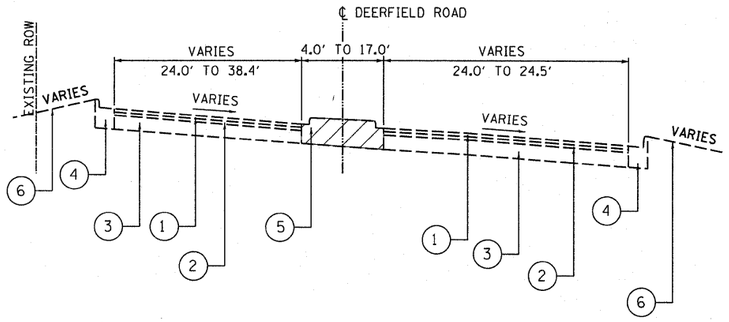
SUMMARY OF QUANTITIES

SCALE: N/A | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	5

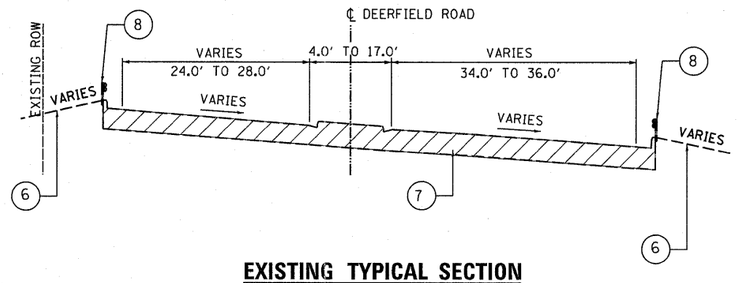
CONTRACT NO. 62102

ILLINOIS FED. AID PROJECT



EXISTING TYPICAL SECTION

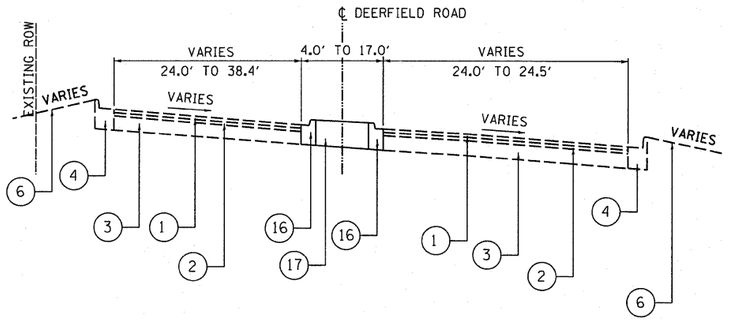
STA. 56+80 TO STA. 58+70 LT AND STA. 58+86 RT.
AND
STA. 60+43 LT AND STA. 60+63 RT TO STA. 63+80



EXISTING TYPICAL SECTION

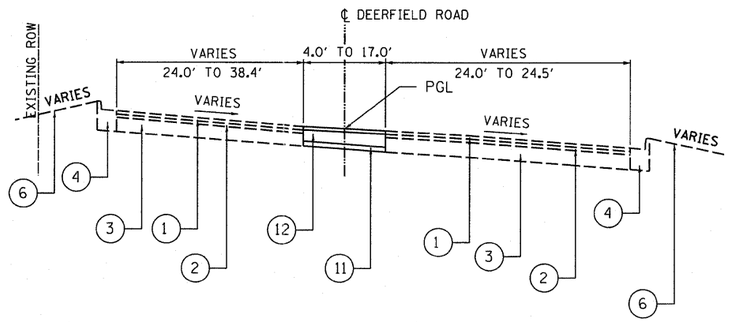
STA. 58+70 LT AND STA. 58+86 RT TO STA. 59+28
STA. 60+00 TO TO STA. 60+43 LT AND STA. 60+63 RT

REMOVAL



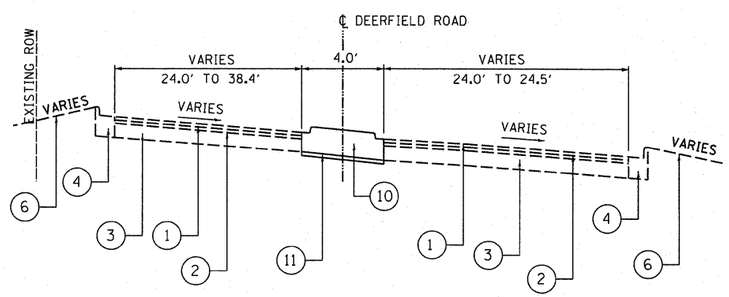
PROPOSED TYPICAL SECTION

STA. 61+53 TO STA. 63+80



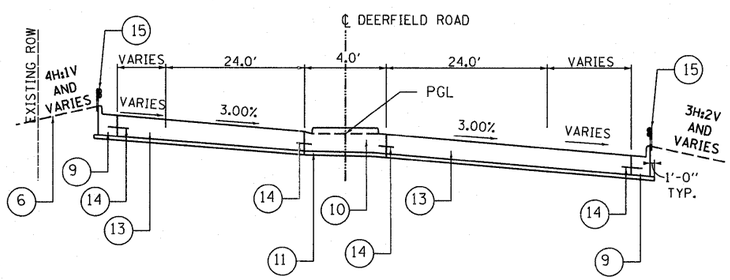
TEMPORARY PAVEMENT TYPICAL SECTION

STA. 60+63 TO STA. 63+80
AND
STA. 58+20 TO STA. 59+42



PROPOSED TYPICAL SECTION

STA. 56+80 TO STA. 58+98 AND
STA. 60+31 TO STA. 61+53



PROPOSED TYPICAL SECTION

STA. 58+70 LT AND STA. 58+86 RT TO STA. 58+98
STA. 60+31 TO STA. 60+43 LT AND STA. 60+63 RT

LEGEND

1. EXISTING HOT-MIX ASPHALT SURFACE COURSE
2. EXISTING HOT-MIX ASPHALT BINDER COURSE
3. EXISTING CONCRETE BASE
4. EXISTING B-6.12, OR B-6.24, CURB & GUTTER
5. EXISTING MEDIAN
6. EXISTING SIDE SLOPE
7. EXISTING APPROACH SLAB
8. EXISTING GUARDRAIL
9. PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (USE REVERSE CROSS GUTTER SLOPE WHERE APPLICABLE)
10. PROPOSED CONCRETE MEDIAN TYPE SB 6.06
11. PROPOSED AGGREGATE BASE COURSE TYPE B, 4"
12. TEMPORARY PAVEMENT, 10"
13. BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
14. INSTALL TIE BARS NO. 6 EPOXY COATED 24" LONG AT 24" O.C. INCLUDED IN COST OF CURB AND GUTTER OR MEDIAN
15. PROPOSED GUARDRAIL
16. PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.06
17. PLANTED MEDIAN (SEE LANDSCAPING PLAN FOR DETAILS)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
TEMPORARY PAVEMENT	
TEMP PAVEMENT (HMA BINDER IL-19 mm); 8 1/4"	4% @ 50 GYR.
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm); 1 3/4"	4% @ 50 GYR.

1. THE UNIT WEIGHT USED TO CALCUATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

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

3. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

4. IF CONTRACTOR CHOOSES TO USE CONCRETE THE THICKNESS WILL BE 10".

FILE NAME = ...\D1-62101-sht-typicals.dgn	DESIGNED - MC	REVISED -
	DRAWN - MC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

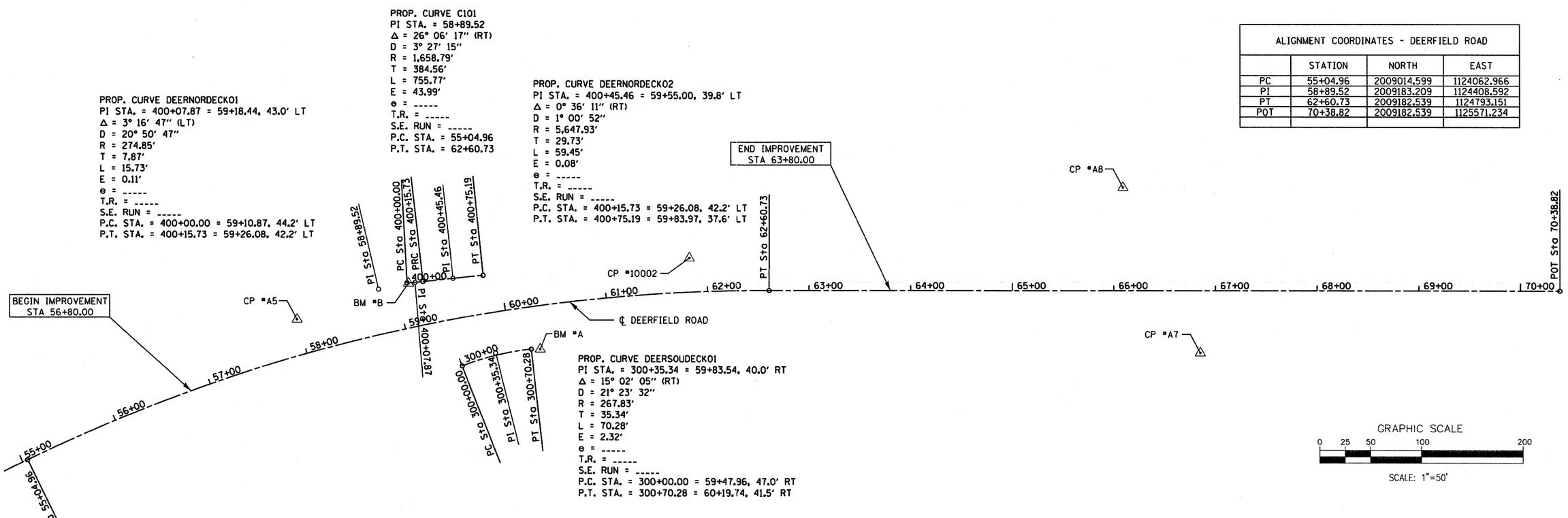
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	6
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

PROP. CURVE DEERNORDECK01
PI STA. = 400+07.87 = 59+18.44, 43.0' LT
Δ = 3° 16' 47" (LT)
D = 20° 50' 47"
R = 274.85'
T = 7.87'
L = 15.73'
E = 0.11'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 400+00.00 = 59+10.87, 44.2' LT
P.T. STA. = 400+15.73 = 59+26.08, 42.2' LT

PROP. CURVE C101
PI STA. = 58+89.52
Δ = 26° 06' 17" (RT)
D = 3° 27' 15"
R = 1,658.79'
T = 384.56'
L = 755.77'
E = 43.99'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 55+04.96
P.T. STA. = 62+60.73

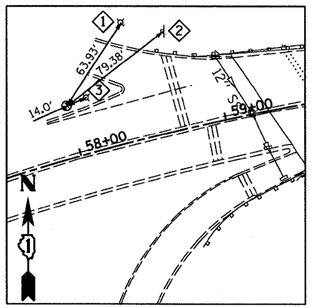
PROP. CURVE DEERNORDECK02
PI STA. = 400+45.46 = 59+55.00, 39.8' LT
Δ = 0° 36' 11" (RT)
D = 1° 00' 52"
R = 5,647.93'
T = 29.73'
L = 59.45'
E = 0.08'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 400+15.73 = 59+26.08, 42.2' LT
P.T. STA. = 400+75.19 = 59+83.97, 37.6' LT

ALIGNMENT COORDINATES - DEERFIELD ROAD			
	STATION	NORTH	EAST
PC	55+04.96	2009014.599	1124062.966
PI	58+89.52	2009183.209	1124408.592
PT	62+60.73	2009182.539	1124793.151
POT	70+38.82	2009182.539	1125571.234



PROP. CURVE DEERSOUDECK01
PI STA. = 300+35.34 = 59+83.54, 40.0' RT
Δ = 15° 02' 05" (RT)
D = 21° 23' 32"
R = 267.83'
T = 35.34'
L = 70.28'
E = 2.32'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 300+00.00 = 59+47.96, 47.0' RT
P.T. STA. = 300+70.28 = 60+19.74, 41.5' RT

GRAPHIC SCALE
0 25 50 100 200
SCALE: 1"=50'

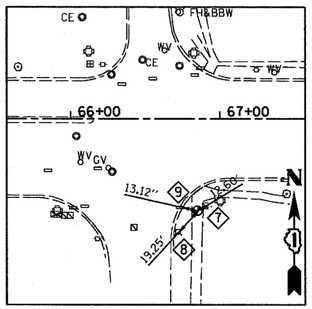


CONTROL POINT #A5

AN 8" SPIKE NEAR NORTH BOUND RAMP TO U.S. ROUTE 41.

STA. 57+99.65, 34.9' LT
N 2009153.2450
E 1124328.3570

1. "X" IN CONCRETE BASE LIGHT POLE
2. "X" IN FACE OF CONCRETE BASE OF SIGN
3. "X" IN CONCRETE BASE OF LIGHT POLE

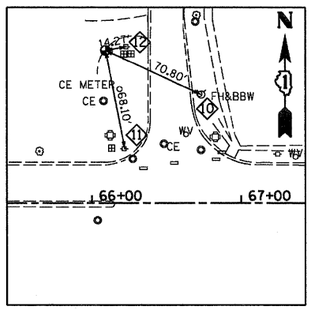


CONTROL POINT #A7

IS A "X" IN SIDEWALK S.E. CORNER DEERFIELD ROAD AND BEVERLY ROAD

STA. 66+84.97, 61.5 RT
N 2009121.0360
E 1125217.3920

7. "X" IN METAL RIM OF HAND HOLD
8. "X" INFACE OF LIGHT POLE
9. "X" IN RIM OF INLET

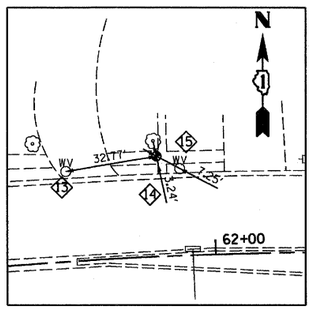


CONTROL POINT #A8

PK NAIL IN BITUMINOUS SERVICE ENTRANCE N.W. CORNER DEERFIELD ROAD AND BEVERLY ROAD

STA. 66+09.05, 102.4' LT
N 2009284.9500
E 1125141.4650

10. TOP SPINDLE FIRE HYDRANT
11. 3 NAILS AND RIBBON IN POWER POLE
12. 3 NAILS AND RIBBON IN POWER POLE



CONTROL POINT #10002

IS A CUT "X" IN SIDEWALK ALONG NORTH SIDE OF DEERFIELD ROAD 450' +/- WEST OF BEVERLY ROAD

STA. 61+83.65, 33.7 LT
N 2009214.592
E 1124714.582

13. WATER VALVE
14. CORNER OF SIDEWALK
15. WATER VALVE

BENCHMARK #A

ELEV. 638.66

SQUARE CUT ON LOWER WING WALL
SE CORNER OF SOUTH BRIDGE WALL

STA. 60+28.68, 42.8' RT
N 2009124.344
E 1124567.717

BENCHMARK #B

ELEV. 644.96

SQUARE CUT ON UPPER WINGWALL
NW CORNER OF NORTH BRIDGE WALL

STA. 59+12.22, 43.4' LT
N 2009189.158
E 1124438.147

FILE NAME = ...\Roadway\01-62101-sht-ATB.dgn	DESIGNED - MC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 50' | SHEET NO. 1 OF 1 SHEETS | STA. 54+79.77 TO STA. 70+38.82

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	7
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		

SUGGESTED CONSTRUCTION STAGING TRAFFIC CONTROL

THE FOLLOWING SEQUENCE OF TRAFFIC CONTROL IS SUGGESTED. VARIATIONS MAY BE MADE, WITH THE APPROVAL OF THE ENGINEER, IF THE PREVAILING SITE CONDITIONS AT THE TIME OF CONSTRUCTION ALLOW.

PRECONSTRUCTION STAGE

INSTALL ALL EROSION CONTROL MEASURES. CLOSE INSIDE LANES IN BOTH DIRECTIONS USING IDOT STANDARD 701601, REMOVE MEDIANS AND INSTALL TEMPORARY PAVEMENT.

STAGE I

PLACE SIGNS FOR RAMP CLOSURE FOR WB DEERFIELD ROAD TO NB US 41. PLACE TEMPORARY CONCRETE BARRIERS, PAVEMENT MARKINGS, SIGNAGE TO MERGE TWO LANES OF TRAFFIC IN EACH DIRECTION TO ONE LANE IN EACH DIRECTION AND MOVE TRAFFIC TO SOUTH SIDE OF THE BRIDGE. REMOVE BRIDGE SUPERSTRUCTURE, APPROACH SLABS AND PORTIONS OF SUBSTRUCTURE ON NORTH SIDE OF BRIDGE. INSTALL RIP RAP ON WEST SIDE OF STRUCTURE. CONSTRUCT PROPOSED SUPERSTRUCTURE, APPROACH SLAB PAVEMENT, PAVEMENT, GUARDRAIL AND DRAINAGE ITEMS ON NORTH SIDE

STAGE II

MOVE TRAFFIC TO NORTH SIDE OF THE BRIDGE AND REMOVE RAMP CLOSURE FOR WB DEERFIELD ROAD TO NB US 41. INSTALL RAMP CLOSURE FOR NB US 41 TO EB CENTRAL AVE (DEERFIELD ROAD). REMOVE BRIDGE SUPERSTRUCTURE, APPROACH SLABS AND PORTIONS OF SUBSTRUCTURE ON SOUTH SIDE OF BRIDGE. INSTALL RIP RAP ON EAST SIDE OF STRUCTURE. CONSTRUCT PROPOSED SUPERSTRUCTURE, APPROACH SLAB, PAVEMENT, GUARD RAIL AND DRAINAGE ITEMS ON SOUTH SIDE.

STAGE IIA

CLOSE INSIDE LANES IN BOTH DIRECTIONS USING IDOT STANDARD 701601 AND RECONSTRUCT THE MEDIANS.

SUGGESTED CONSTRUCTION STAGING TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ADJACENT PROPERTIES THROUGHOUT THE DURATION OF THE WORK.
2. THE CONTRACTOR SHALL USE PAVEMENT MARKING TAPE TYPE III FOR TEMPORARY LANE MARKING ON ALL PERMANENT PAVEMENT.
3. TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON SURFACES TO BE REMOVED OR OVERLAID.
4. EXISTING TRAFFIC CONTROL SIGNS AND MESSAGES SHALL BE TEMPORARILY COVERED, MODIFIED OR REMOVED AS DIRECTED BY THE ENGINEER.
5. ALL OF THE TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS OR THE LATEST EDITION OF THE "ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED.
6. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE CONSTRUCTION SIGNING FOR EACH DIRECTION AND ON THE NB US41 TO EB DEERFIELD EXIT RAMP, SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF CONSTRUCTION. SIGNS SHALL BE REMOVED OR COVERED WHEN PROTECTION IS NOT REQUIRED AND RESTORED AS APPROPRIATE. SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.
8. CONSTRUCTION WORK WILL NOT COMMENCE UNTIL ALL SIGNS AND PAVEMENT MARKINGS IN CONFLICT WITH THE STAGED CONSTRUCTION HAVE BEEN REMOVED AND ALL TEMPORARY SIGNS, PAVEMENT MARKINGS AND BARRICADES ARE IN PLACE AND APPROVED BY THE ENGINEER.
9. THE CONTRACTOR SHALL PROVIDE ALL BARRIERS, SIGNS, SUPPORTS, PAVEMENT MARKING MATERIALS AND LABOR NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
10. IMMEDIATELY AFTER THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, MODIFIED, DAMAGED OR OTHERWISE AFFECTED BY THE CONSTRUCTION.
11. TRAFFIC CONTROL DEVICES AND TEMPORARY CONCRETE BARRIER WALL SHALL BE IN ACCORDANCE WITH I.D.O.T. TRAFFIC CONTROL STANDARD 701901 AND 704001.
12. FOR EACH STAGE OF CONSTRUCTION PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS, COORDINATE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT.
13. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THE TEMPORARY PAVEMENT MARKING FOR TRAFFIC CONTROL AND PROTECTION PLANS SHALL BE REMOVED.
14. THE CONTRACTOR WILL NOT BE ALLOWED TO PROCEED WITH ANY WORK ON THIS PROJECT REQUIRING A PERMANENT OR OVERNIGHT LANE(S)/SHOULDER(S) CLOSURES OR LANE SHIFTS ON DEERFIELD ROAD BETWEEN THE DATES OF DECEMBER 15, 2011 AND APRIL 1, 2012. TEMPORARY DAYTIME LANE/SHOULDER CLOSURES AND LANE SHIFTS MAY BE ALLOWED BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM WITH THE WRITTEN PERMISSION/APPROVAL OF THE ENGINEER AND THE BUREAU OF TRAFFIC OPERATIONS. THE COST TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT AND THIS RESTRICTION SHALL NOT BE CONSIDERED AS A BASIS FOR TIME EXTENSION.

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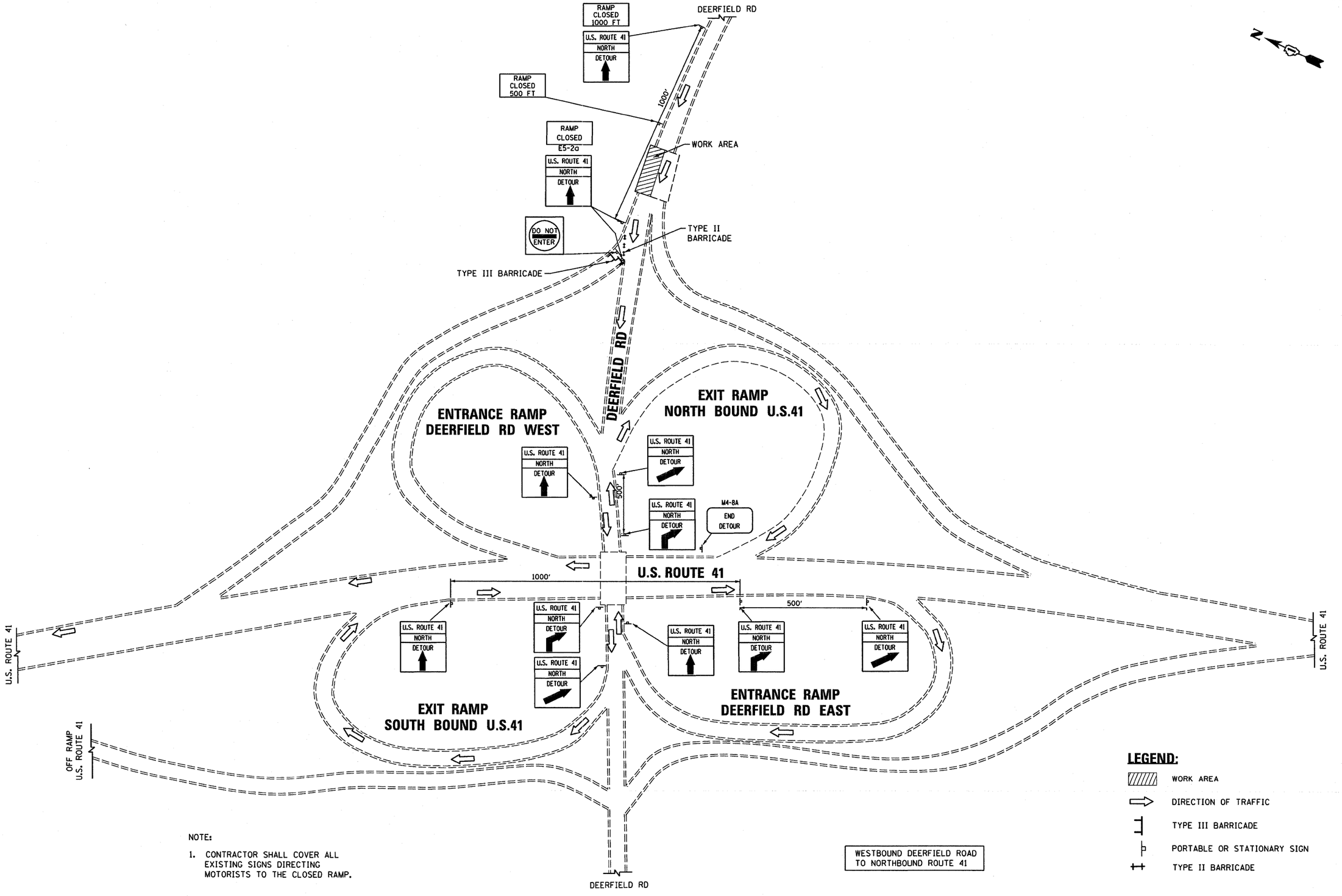
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL NOTES

SCALE: N/A | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	8
		CONTRACT NO. 62102		
	ILLINOIS	FED. AID PROJECT		



NOTE:

1. CONTRACTOR SHALL COVER ALL EXISTING SIGNS DIRECTING MOTORISTS TO THE CLOSED RAMP.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

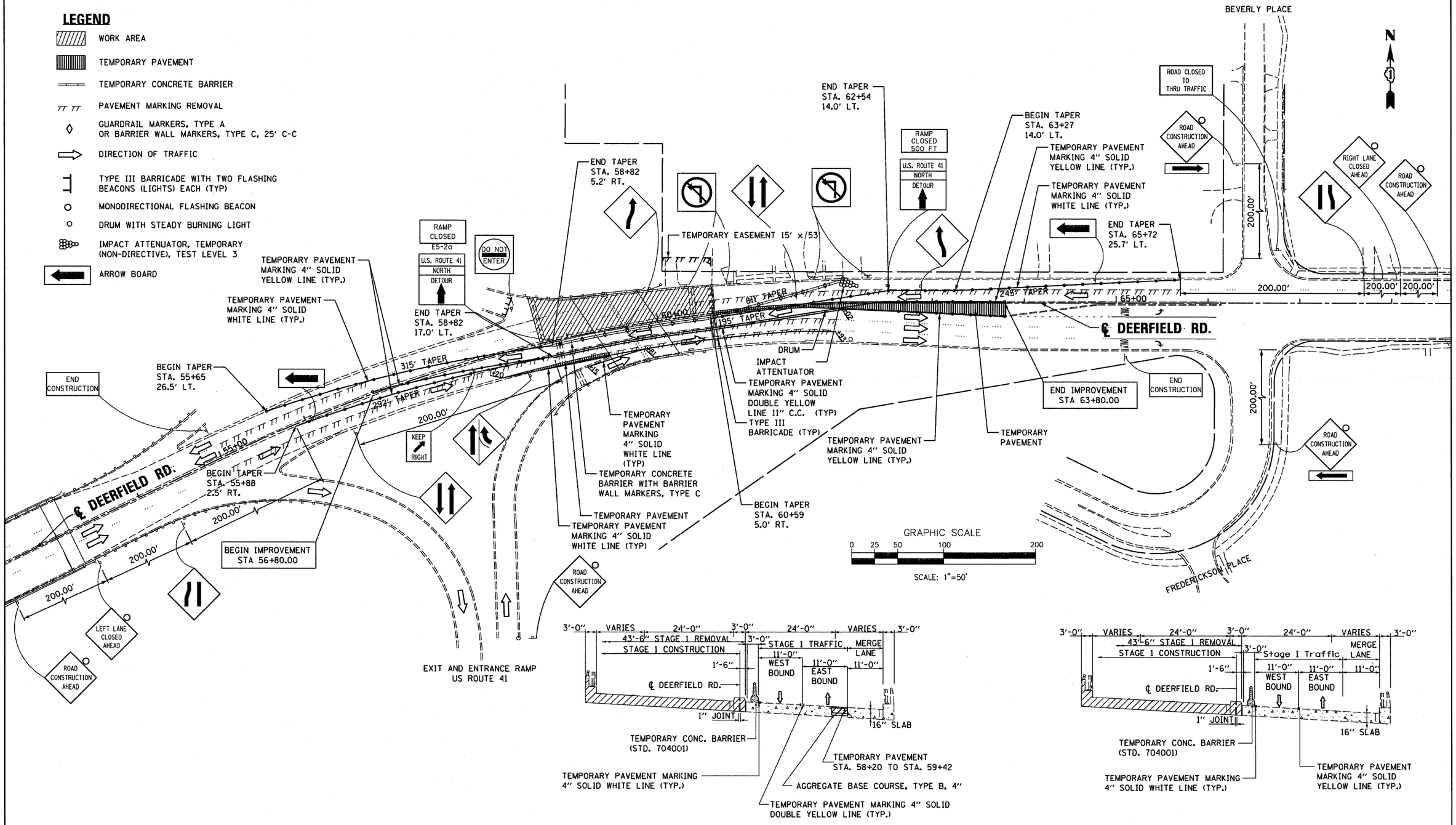
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE 1 DETOUR

SCALE: NTS | SHEET NO. 2 OF 5 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	9
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- PAVEMENT MARKING REMOVAL
- GUARDRAIL MARKERS, TYPE A OR BARRIER WALL MARKERS, TYPE C, 25' C-C
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH TWO FLASHING BEACONS (LIGHTS) EACH (TYP)
- MONODIRECTIONAL FLASHING BEACON
- DRUM WITH STEADY BURNING LIGHT
- IMPACT ATTENUATOR, TEMPORARY (NON-DIRECTIVE), TEST LEVEL 3
- ARROW BOARD



STAGE I TYPICAL SECTION

N.T.S.

STA. 58+20 TO STA. 59+50

STAGE I TYPICAL SECTION

N.T.S.

STA. 59+50 TO STA. 60+63

FILE NAME = ...\D1-62101-sht-MOT-stage1.dgn	DESIGNED - MC	REVISED -
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PLOT DATE = 6/23/2011	DATE - 06/24/2011	REVISED -

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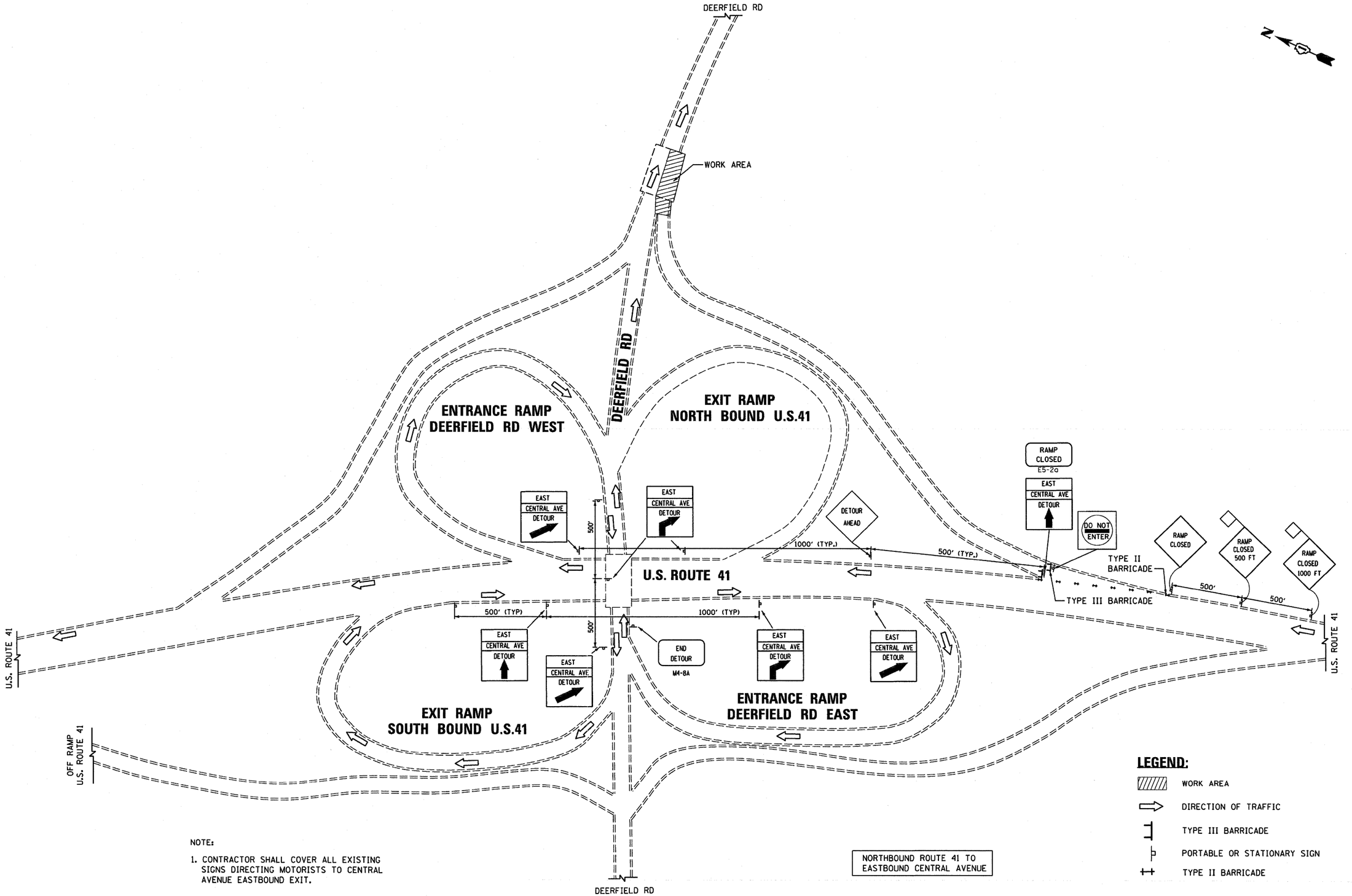
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE 1

SCALE: 1" = 50' | SHEET NO. 3 OF 5 SHEETS | STA. 52+36.97 TO STA. 68+64.68

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	10
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			



NOTE:

1. CONTRACTOR SHALL COVER ALL EXISTING SIGNS DIRECTING MOTORISTS TO CENTRAL AVENUE EASTBOUND EXIT.

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	DATE - 06/24/2011	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

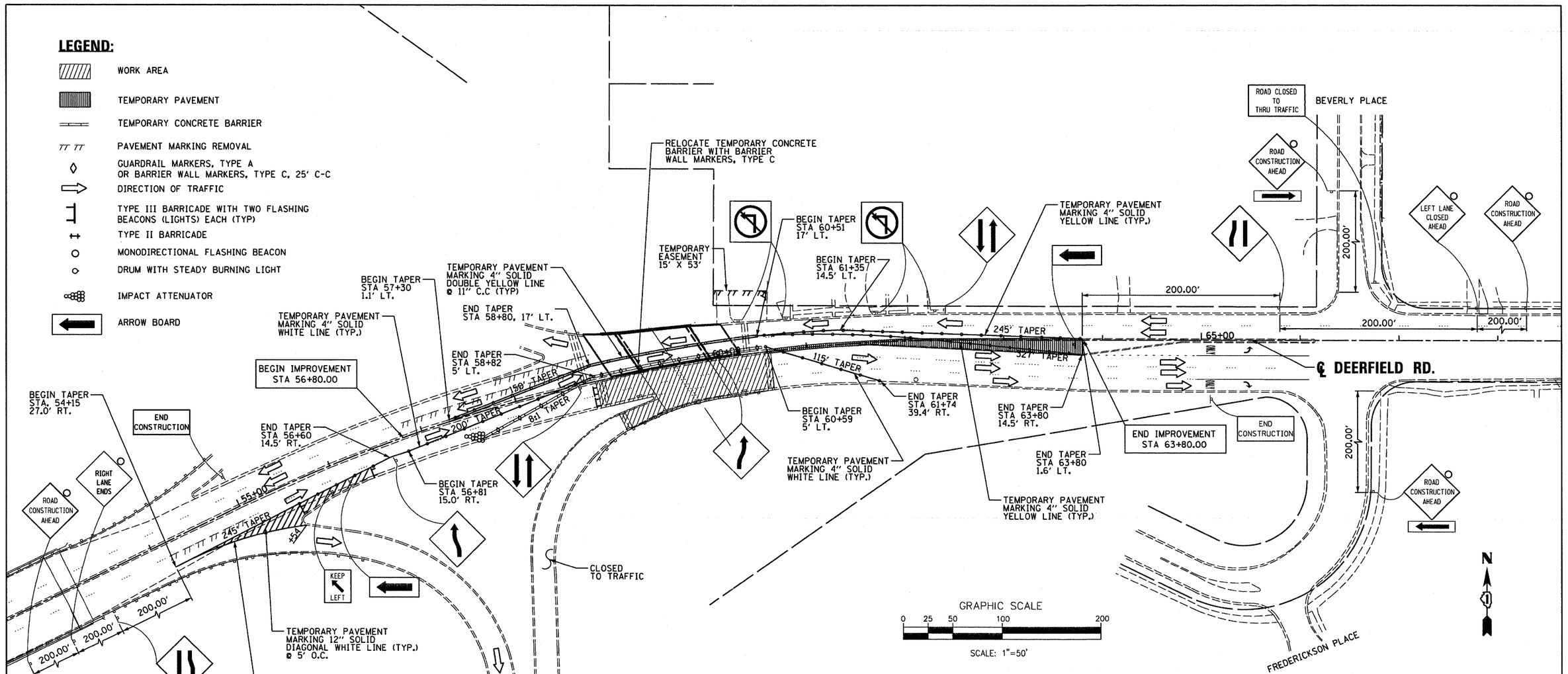
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE 2 DETOUR

SCALE: NTS | SHEET NO. 4 OF 5 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	11
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

LEGEND:

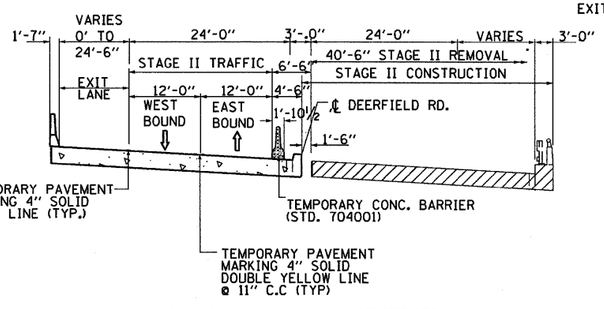
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- PAVEMENT MARKING REMOVAL
- GUARDRAIL MARKERS, TYPE A OR BARRIER WALL MARKERS, TYPE C, 25' C-C
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH TWO FLASHING BEACONS (LIGHTS) EACH (TYP)
- TYPE II BARRICADE
- MONODIRECTIONAL FLASHING BEACON
- DRUM WITH STEADY BURNING LIGHT
- IMPACT ATTENUATOR
- ARROW BOARD



GRAPHIC SCALE

0 25 50 100 200

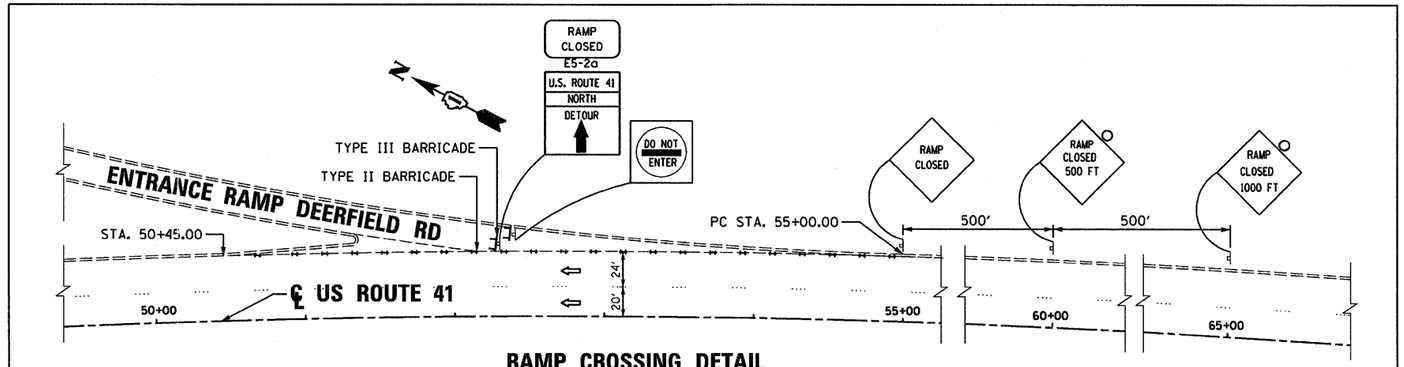
SCALE: 1"=50'



STAGE II TYPICAL SECTION

N.T.S.

STA. 58+68 TO STA. 60+51



RAMP CROSSING DETAIL

SCALE: 1" = 50'

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STATE OF ILLINOIS
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SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE 2

SCALE: 1" = 50' | SHEET NO. 5 OF 5 SHEETS | STA. 52+36.97 TO STA. 68+64.68

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	12
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		

LEGEND

- BRIDGE STRUCTURE REMOVAL (SEE STRUCTURE PLANS)
- MEDIAN REMOVAL (1350 SQ. FT.) STA. 60+69 TO STA. 61+62, STA. 56+80 TO STA. 58+86
- TOPSOIL EXCAVATION AND PLACEMENT (155 CU. YD.)
- X TREE REMOVAL (6 TO 15 UNITS)

WATERS OF THE US 2
WETLAND AREA SITE 1
30' GUARDRAIL REMOVAL
COMBINATION CURB AND GUTTER REMOVAL STA. 61+62 TO STA. 63+80 (CL LT) 218 FT
55' GUARDRAIL REMOVAL
COMBINATION CURB AND GUTTER REMOVAL STA. 59+84 TO STA. 60+43 59 FT
END IMPROVEMENT STA 63+80.00
COMBINATION CURB AND GUTTER REMOVAL STA. 58+68 TO STA. 59+13 45 FT
PT Sta 62+60.73
℄ DEERFIELD RD.
BEGIN IMPROVEMENT STA 56+80.00
COMBINATION CURB AND GUTTER REMOVAL STA. 58+86 TO STA. 59+41 55 FT
COMBINATION CURB AND GUTTER REMOVAL STA. 59+00 TO STA. 59+43 43 FT
COMBINATION CURB AND GUTTER REMOVAL STA. 59+04 TO STA. 59+48 44 FT
90' GUARDRAIL REMOVAL
COMBINATION CURB AND GUTTER REMOVAL STA. 60+18 TO STA. 60+62 44 FT
30' GUARDRAIL REMOVAL
REMOVE AND REINSTALL LIGHT POLE
COMBINATION CURB AND GUTTER REMOVAL STA. 61+62 TO STA. 63+80 (CL RT) 218 FT
PROP. CURVE C101
PI STA. = 58+89.52
Δ = 26° 06' 17" (RT)
D = 3° 27' 15"
R = 1,658.79'
T = 384.56'
L = 755.77'
E = 43.99'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 55+04.96
P.T. STA. = 62+60.73

EXISTING CONDITION AND DEMOLITION

GRAPHIC SCALE 0 25 50 100 200
SCALE: 1"=50'

LEGEND

COMBINATION CONCRETE C&G
- (A) B6.12, STA. 58+68 TO STA. 58+80 (LT) - 12'
- (B) B6.12, STA. 58+86 TO STA. 59+00 (LF ALONG BACK OF CURB) - 38'
- (C) B6.12, STA. 59+04 TO STA. 59+20 (RAMP SOUTH EOP) - 16'
- (D) B6.12, STA. 60+14 TO STA. 60+43 (LT) - 29'
- (E) B6.12, STA. 60+50 TO STA. 60+62 (RT) - 12'
- (F) B6.06, STA. 61+53 TO STA. 63+80 (LT MEDIAN) - 227'
- (G) B6.06, STA. 61+53 TO STA. 63+80 (RT MEDIAN) - 227'

*19' - DEPRESSED CURB AND GUTTER

① BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) STANDARD 420401 (TYP),

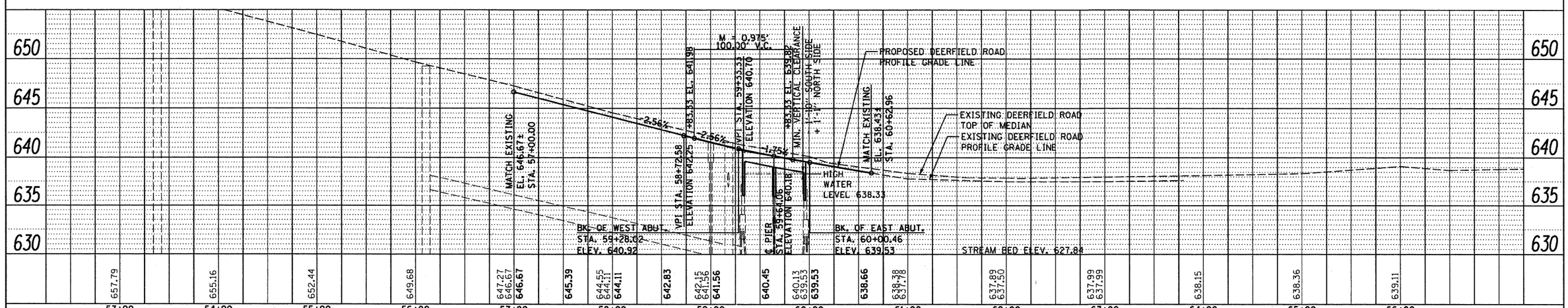
② BRIDGE APPROACH SLAB (SEE STRUCTURAL)

③ PROPOSED STRUCTURE

WATERS OF THE US 2
TRAFFIC BARRIER TERMINAL, TYPE 6
WETLAND AREA SITE 1
STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) SEE GUARDRAIL DETAILS SHEET.
TEMPORARY EASEMENT
END IMPROVEMENT STA 63+80.00
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED WITH TERMINAL MARKER DIRECT APPLIED
CONCRETE MEDIAN, TYPE SB 6.06 STA. 56+80 TO 58+98 (867 SQ. FT)
PT Sta 62+60.73
EXISTING R.O.W.
BEGIN IMPROVEMENT STA 56+80.00
PROP. CURVE C101
PI STA. = 58+89.52
Δ = 26° 06' 17" (RT)
D = 3° 27' 15"
R = 1,658.79'
T = 384.56'
L = 755.77'
E = 43.99'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 55+04.96
P.T. STA. = 62+60.73
℄ DEERFIELD RD.
RESTORE PLANTED MEDIAN STA. 61+53 TO STA. 63+80 SEE LANDSCAPING PLAN
CONCRETE MEDIAN, TYPE SB 6.06 STA. 60+31 TO STA. 61+53 (613 SQ. FT)
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED WITH TERMINAL MARKER DIRECT APPLIED
TRAFFIC BARRIER TERMINAL, TYPE 6
TRAFFIC BARRIER TERMINAL, TYPE 6
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED WITH TERMINAL MARKER DIRECT APPLIED
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS 12.5 FT

PROPOSED IMPROVEMENT

GRAPHIC SCALE 0 25 50 100 200
SCALE: 1"=50'



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...\D1-62101-sht-plnplnprfl.dgn	DRAWN - MC	REVISED -
PLOT TIME = 9:48:51 AM	CHECKED - TRP	REVISED -
PLOT DATE = 6/23/2011	DATE - 06/24/2011	REVISED -

EPSTEIN
600 W FULTON ST CHICAGO, ILLINOIS 60661-1259
TEL 312 454 9100 FAX 312 559 1217 WEB www.epstein-isl.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

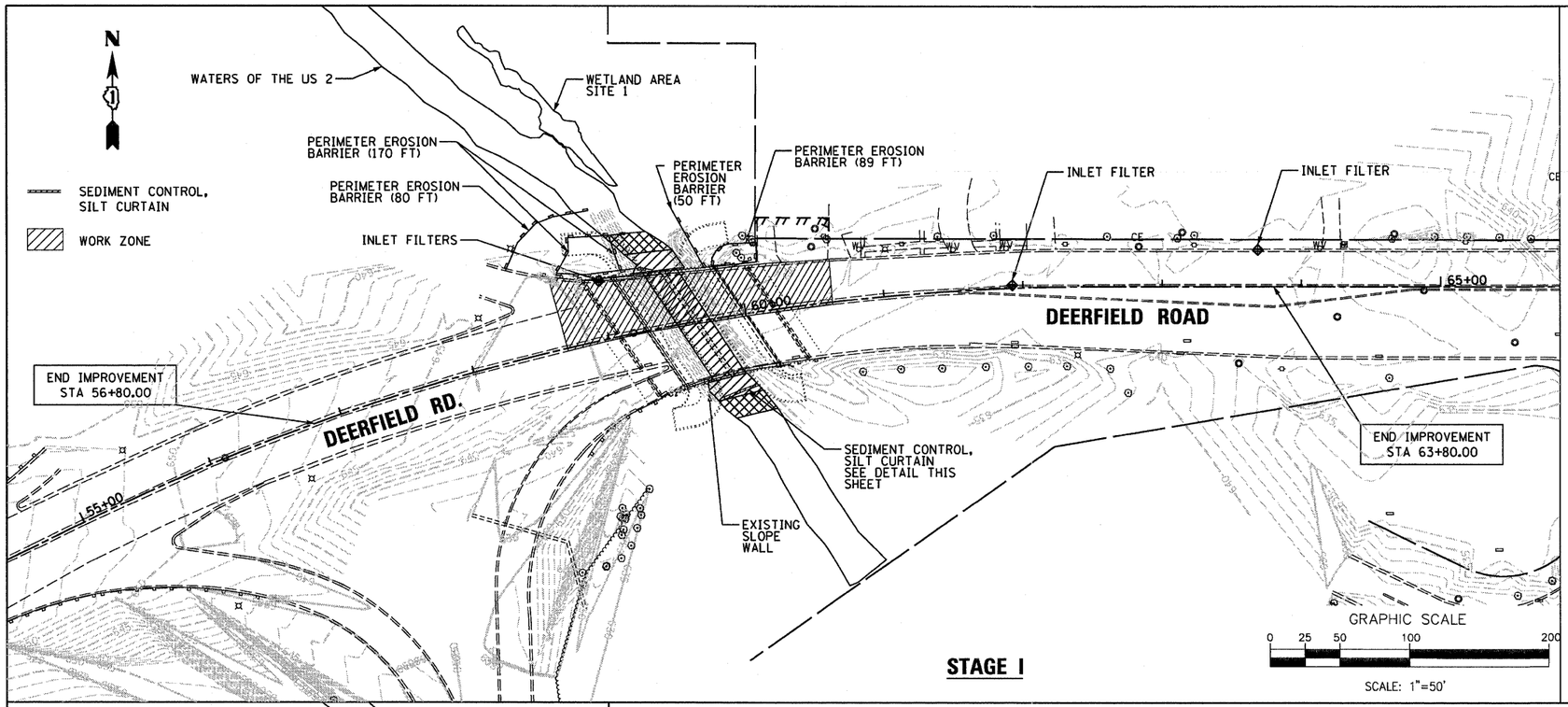
PLAN AND PLOT

SCALE: 1" = 50' | SHEET NO. 1 OF 1 SHEETS | STA. 53+16.21 TO STA. 67+69.99

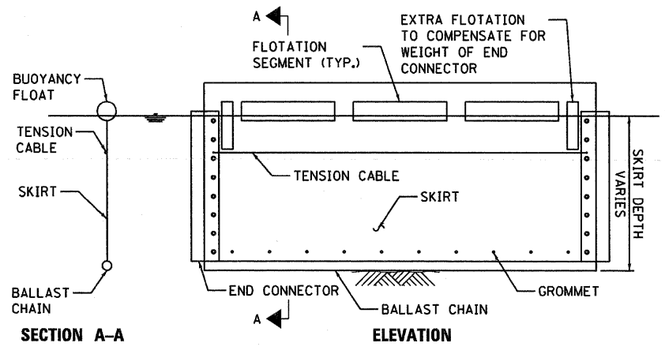
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	13
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

PLAN — SURVEYED — DRAWN — ALIGNMENT CHECKED — QUANTITIES CHECKED — NOTE BOOK — NO. — CADD FILE NAME — BY — DATE

PROFILE — SURVEYED — DRAWN — GRADES CHECKED — SEAL NOTED — STRUCTURE NOTATNS CHKD — NOTE BOOK — NO. — BY — DATE



STAGE I

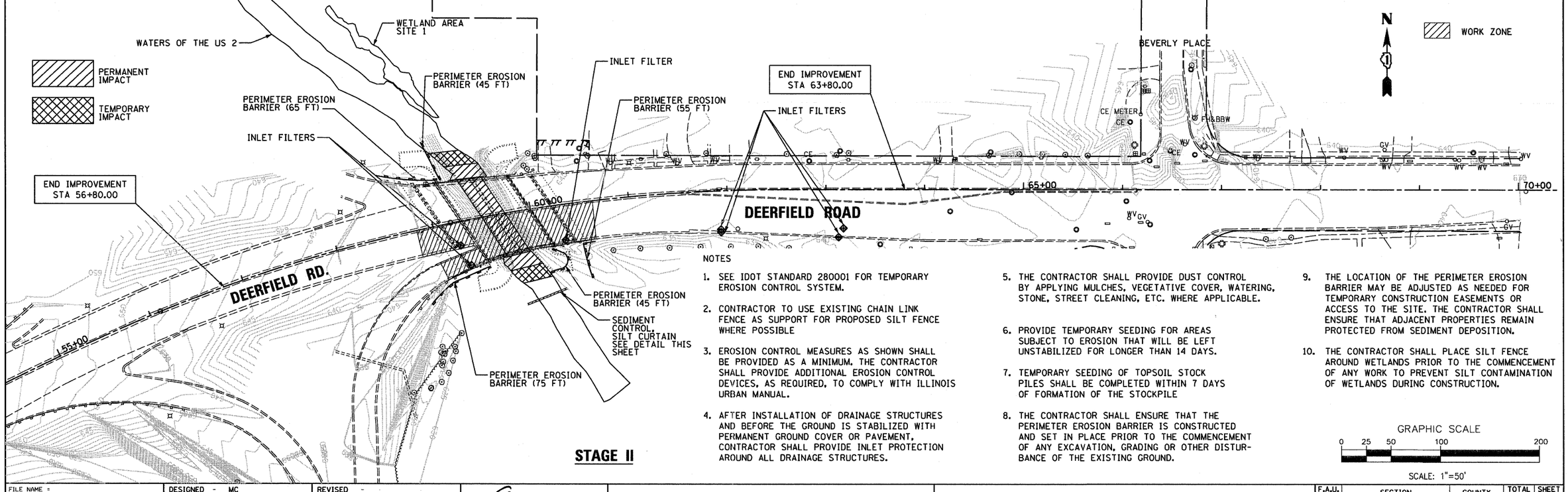


SECTION A–A **ELEVATION**

NOTES:

1. FLOTATION BOOM SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. ANCHORAGES SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE. BOOMS ARE NOT TO BE INSTALLED ACROSS FLOWING BODY OF WATER.
2. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES.
3. FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 5/8" DIAMETER POLYPROPYLENE ROPE.
4. DESIGN OF BOOM AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BOTTOM OF BOOM SHALL REACH BOTTOM OF WATERWAY USING ONE OR TWO VERTICAL SECTIONS AS REQUIRED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. CONTRACTOR SHALL REMOVE THE BOOM AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY.

SEDIMENT CONTROL SILT CURTAIN DETAIL



STAGE II

NOTES

1. SEE IDOT STANDARD 280001 FOR TEMPORARY EROSION CONTROL SYSTEM.
2. CONTRACTOR TO USE EXISTING CHAIN LINK FENCE AS SUPPORT FOR PROPOSED SILT FENCE WHERE POSSIBLE
3. EROSION CONTROL MEASURES AS SHOWN SHALL BE PROVIDED AS A MINIMUM. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL DEVICES, AS REQUIRED, TO COMPLY WITH ILLINOIS URBAN MANUAL.
4. AFTER INSTALLATION OF DRAINAGE STRUCTURES AND BEFORE THE GROUND IS STABILIZED WITH PERMANENT GROUND COVER OR PAVEMENT, CONTRACTOR SHALL PROVIDE INLET PROTECTION AROUND ALL DRAINAGE STRUCTURES.
5. THE CONTRACTOR SHALL PROVIDE DUST CONTROL BY APPLYING MULCHES, VEGETATIVE COVER, WATERING, STONE, STREET CLEANING, ETC. WHERE APPLICABLE.
6. PROVIDE TEMPORARY SEEDING FOR AREAS SUBJECT TO EROSION THAT WILL BE LEFT UNSTABILIZED FOR LONGER THAN 14 DAYS.
7. TEMPORARY SEEDING OF TOPSOIL STOCK PILES SHALL BE COMPLETED WITHIN 7 DAYS OF FORMATION OF THE STOCKPILE
8. THE CONTRACTOR SHALL ENSURE THAT THE PERIMETER EROSION BARRIER IS CONSTRUCTED AND SET IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, GRADING OR OTHER DISTURBANCE OF THE EXISTING GROUND.
9. THE LOCATION OF THE PERIMETER EROSION BARRIER MAY BE ADJUSTED AS NEEDED FOR TEMPORARY CONSTRUCTION EASEMENTS OR ACCESS TO THE SITE. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
10. THE CONTRACTOR SHALL PLACE SILT FENCE AROUND WETLANDS PRIOR TO THE COMMENCEMENT OF ANY WORK TO PREVENT SILT CONTAMINATION OF WETLANDS DURING CONSTRUCTION.

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	DRAWN - MC	REVISED -
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PLOT DATE = 6/23/2011	DATE - 06/24/2011	REVISED -

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60661-1259
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FAX 312 559 1217
WEB www.epstein-inc.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: 1" = 50' | SHEET NO. 1 OF 1 SHEETS | STA. 52+18.93 TO STA. 70+38.82

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	14
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

EXISTING STRUCTURES

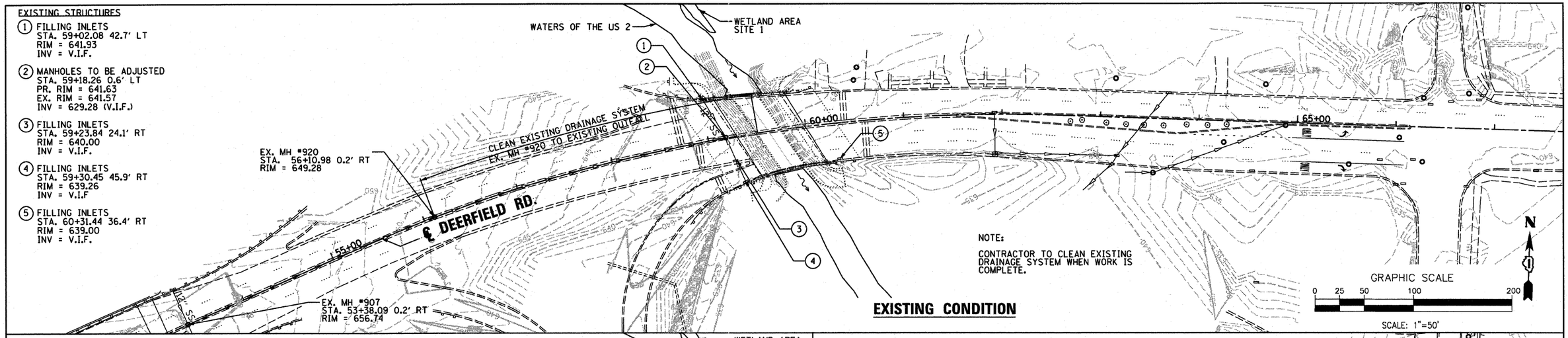
(1) FILLING INLETS
STA. 59+02.08 42.7' LT
RIM = 641.93
INV = V.I.F.

(2) MANHOLES TO BE ADJUSTED
STA. 59+18.26 0.6' LT
PR. RIM = 641.63
EX. RIM = 641.57
INV = 629.28 (V.I.F.)

(3) FILLING INLETS
STA. 59+23.84 24.1' RT
RIM = 640.00
INV = V.I.F.

(4) FILLING INLETS
STA. 59+30.45 45.9' RT
RIM = 639.26
INV = V.I.F

(5) FILLING INLETS
STA. 60+31.44 36.4' RT
RIM = 639.00
INV = V.I.F.



EXISTING CONDITION

PROPOSED STRUCTURES

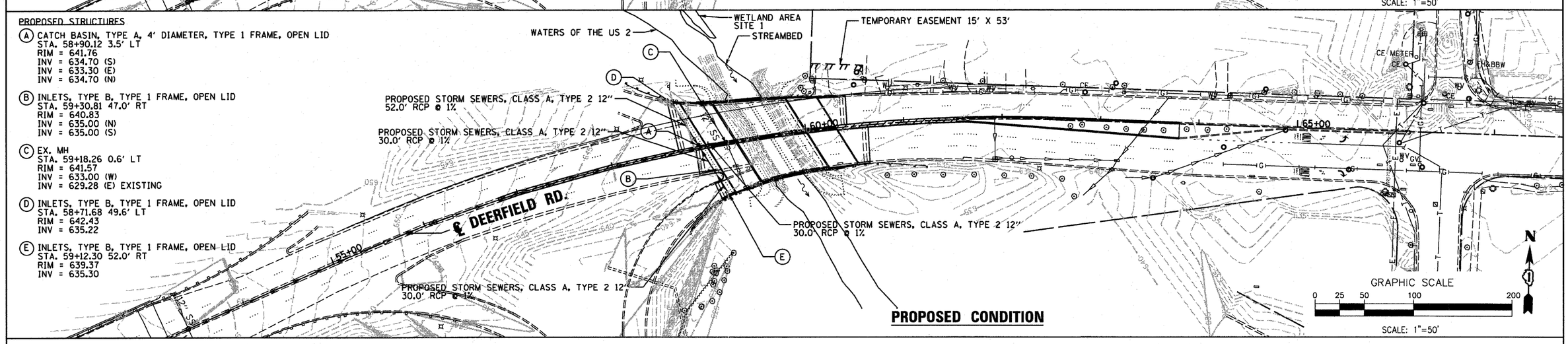
(A) CATCH BASIN, TYPE A, 4' DIAMETER, TYPE 1 FRAME, OPEN LID
STA. 58+90.12 3.5' LT
RIM = 641.76
INV = 634.70 (S)
INV = 633.30 (E)
INV = 634.70 (N)

(B) INLETS, TYPE B, TYPE 1 FRAME, OPEN LID
STA. 59+30.81 47.0' RT
RIM = 640.83
INV = 635.00 (N)
INV = 635.00 (S)

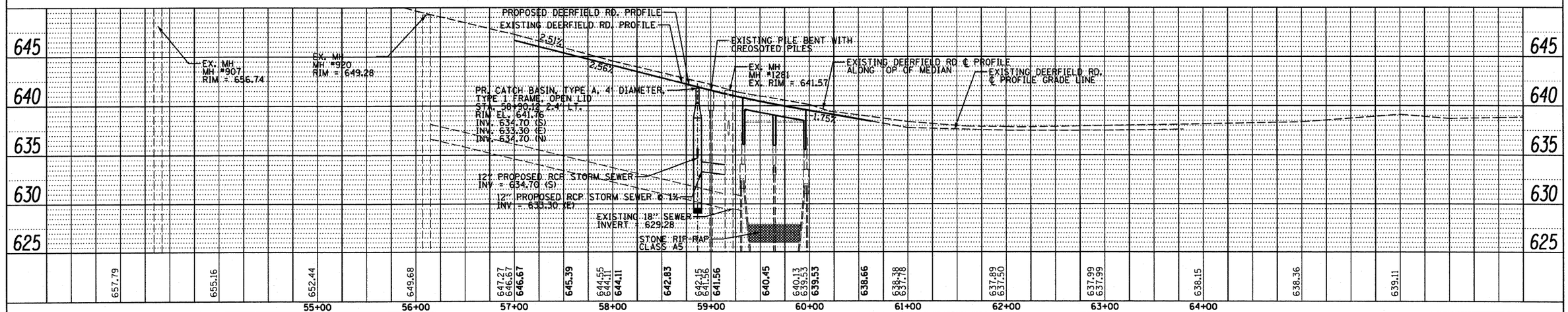
(C) EX. MH
STA. 59+18.26 0.6' LT
RIM = 641.57
INV = 633.00 (W)
INV = 629.28 (E) EXISTING

(D) INLETS, TYPE B, TYPE 1 FRAME, OPEN LID
STA. 58+71.68 49.6' LT
RIM = 642.43
INV = 635.22

(E) INLETS, TYPE B, TYPE 1 FRAME, OPEN LID
STA. 59+12.30 52.0' RT
RIM = 639.37
INV = 635.30



PROPOSED CONDITION



PROFILE

SURVEYED	DATE
DRAWN	
GRADES CHECKED	
BM. NOTED	
STRUCTURE NOTATNS. CHKD	
NOTE BOOK	
NO.	

PLAN

SURVEYED	DATE
DRAWN	
ALIGNMENT CHECKED	
BY	
NOTE BOOK	
NO.	
PLOT FILE NAME	

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	DRAWN - MC	REVISED -
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PLOT DATE = 6/23/2011	DATE - 06/24/2011	REVISED -

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800 W FULTON ST
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FAX 312 559 1217
WEB www.epstein-ae.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

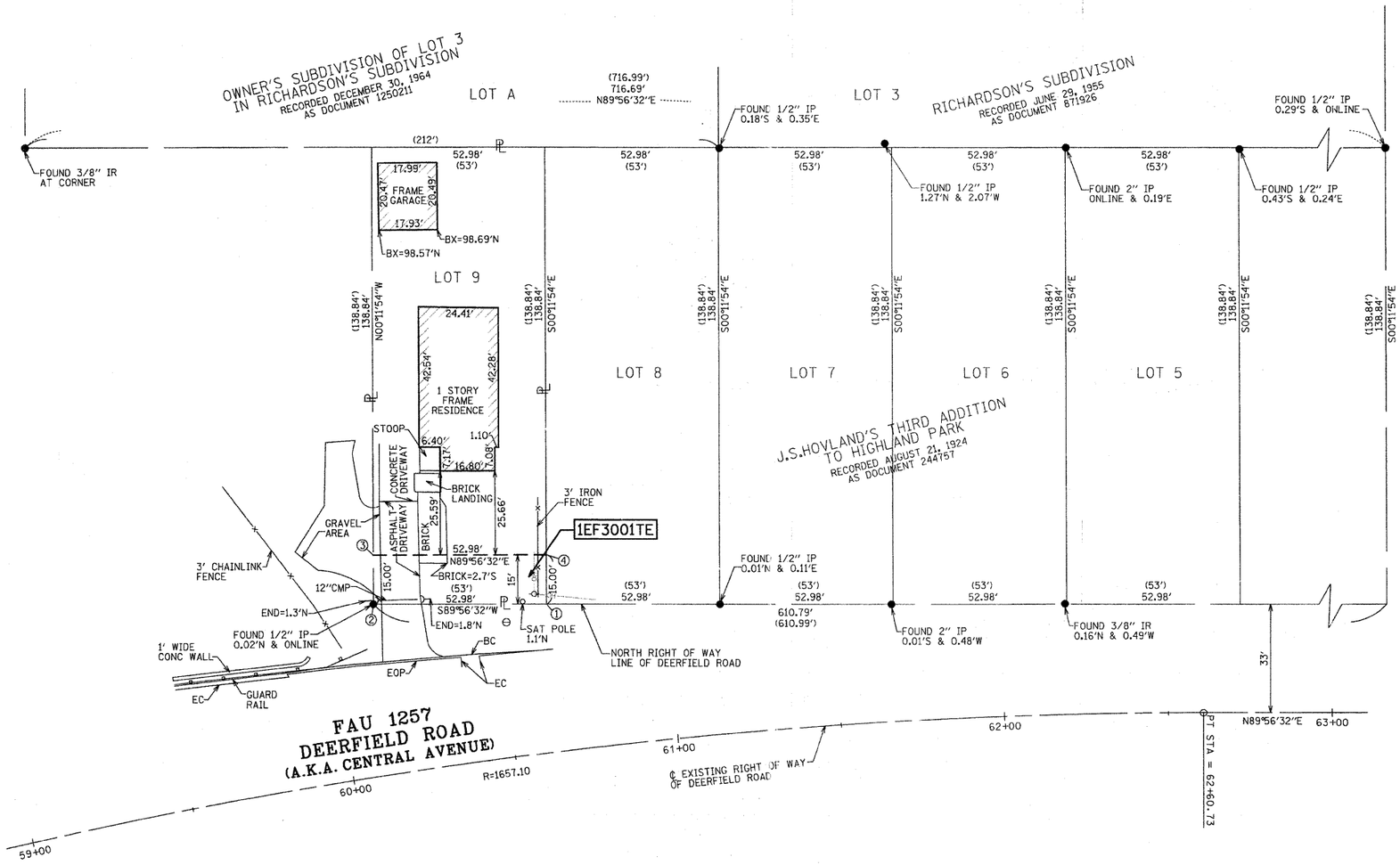
DRAINAGE AND UTILITIES

SCALE: 1" = 50' | SHEET NO. 1 OF 1 SHEETS | STA. 53+16.21 TO STA. 67+69.99

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	15
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

PART OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF SECTION 22, TWP. 43 N., R. 12 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES SQ.FT.	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1EF3001TE	LUIS M. VAZQUEZ AND MARIA L. VAZQUEZ	0.169	N/A	N/A	0.169	0.018	TEMPORARY	16-22-414-019	



COORDINATE/STATION TABLE					
POINT	NORTHING	EASTING	STATION	OFFSET	
1	2,009,221.35	1,124,606.48	60+64.77	44.89	LEFT
2	2,009,221.30	1,124,553.51	60+13.76	51.95	LEFT
3	2,009,236.30	1,124,553.45	60+15.86	66.79	LEFT
4	2,009,236.35	1,124,606.43	60+66.45	59.79	LEFT

LEGEND

SECTION CORNER (9 10 / 16 15) — QUARTER SECTION CORNER (16 — 15)

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

N

GRAPHIC SCALE FEET 0 20 40

SCALE: 1" = 20'

- VALVE VAULT
- LIGHT POLE
- UTILITY POLE
- BC BACK OF CURB
- EOP EDGE OF PAVEMENT
- EC EDGE OF CONCRETE
- IP IRON PIPE
- CMP CORRUGATED METAL PIPE
- BX BUILDING CORNER

Bearings are referenced to the Illinois State Plane Coordinate Grid System, NAD83, East Zone.

- ● IRON PIPE OR ROD FOUND ○ REPLACED AFTER CONSTRUCTION
- \+ CUT CROSS FOUND OR SET
- ● T1 T2 T3 **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.
- ● BT1 BT2 BT3 **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.
- ■ **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

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

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 22, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE 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

_____
REBECCA Y. POPECK
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

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

SPACECO
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

RECEIVED MAY 20 2010 PLATS & LEGALS

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAU 1257 (DEERFIELD ROAD)

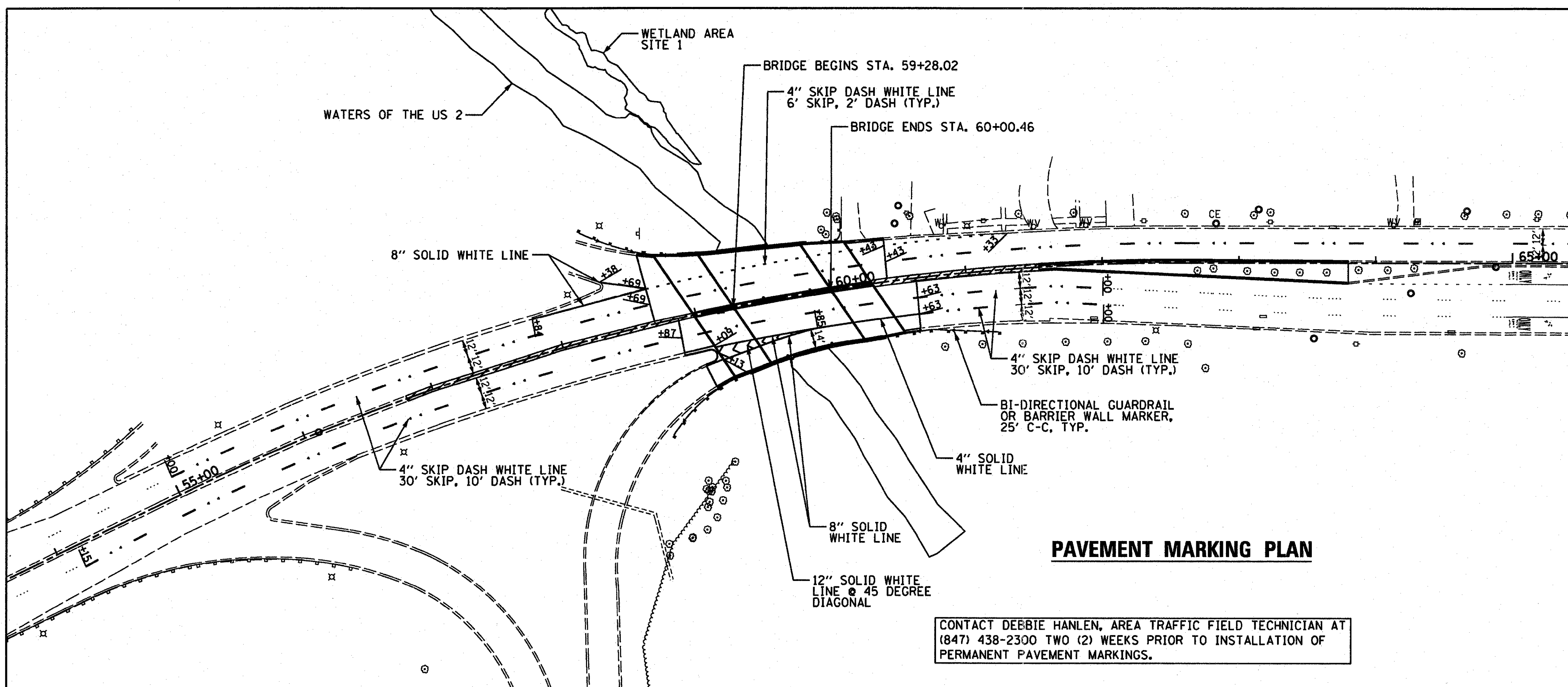
SECTION: EAST OF SKOKIE DITCH	COUNTY: LAKE
PROJECT	JOB NO.: R-91-050-01
STATION 60+13.76	TO STATION 60+66.45
SCALE: 1"=20'	SHEET 2 OF 2

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

REVISION DATE: 05/18/2010 — REVISION PER IDOT REVIEW — MADE BY JWM

ROUTE: F.A.U. 1257 (DEERFIELD ROAD) — SECTION: — COUNTY: LAKE — JOB NO.: R-91-050-01 — RECORDING: RECORDED ON

FAU 1257 SECTION 10AR&R LAKE COUNTY CONTRACT 62102 Sheet #16



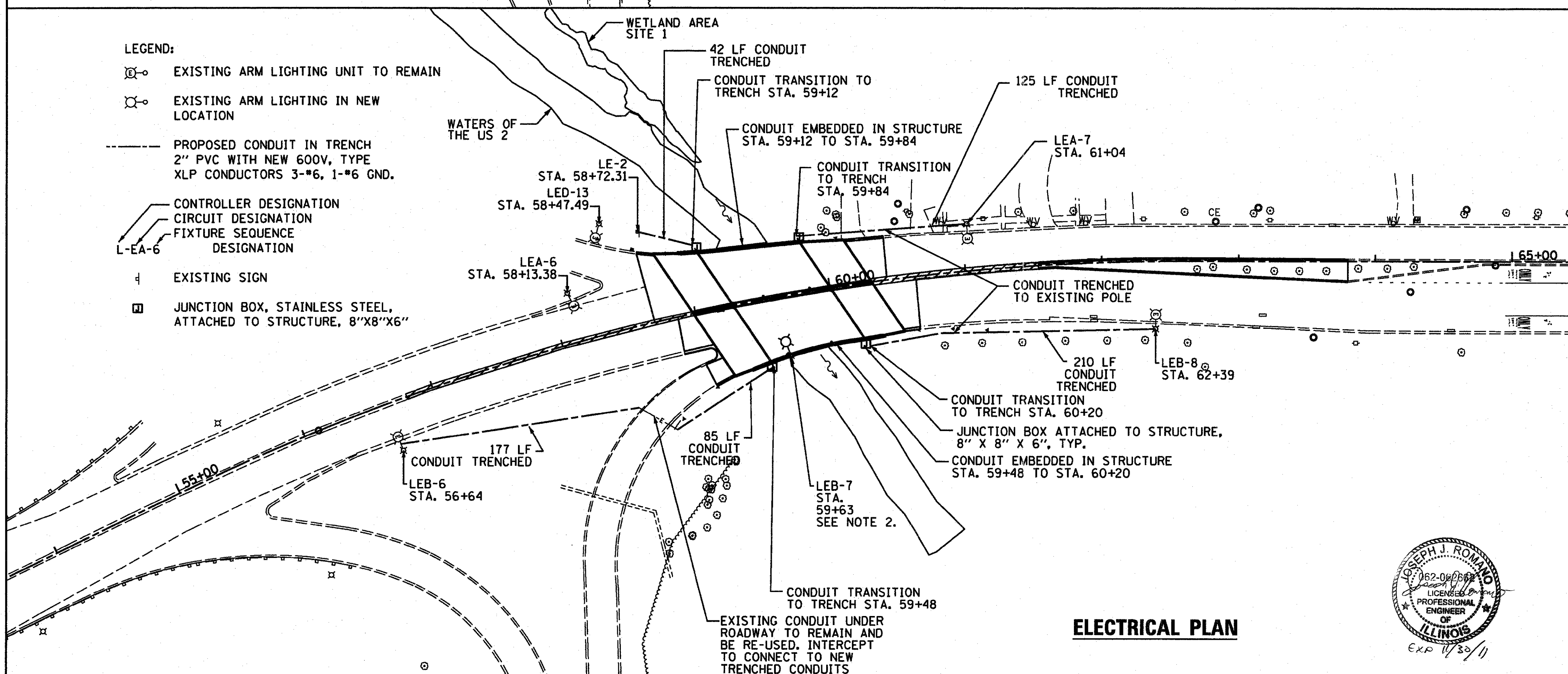
N

GRAPHIC SCALE
0 25 50 100 200
SCALE: 1"=50'

NOTE:

1. PERMANENT PAVEMENT MARKING SHALL BE THERMOPLASTIC FOR HMA SURFACES (OF THE EXTRUDED TYPE) AND POLYUREA PAVEMENT MARKING, TYPE II FOR CONCRETE SURFACES CONFORMING TO I.D.O.T. STANDARD SPECIFICATIONS. PERMANENT PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL (TC-13) AND USED WITH STATE STANDARD.

2. RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE IMPROVEMENT LIMITS. DOUBLE LINE MARKERS SHALL BE PLACED. SEE DETAIL "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SLOW-PLOW RESISTANT)". RPM'S SHALL BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL RPM" DETAIL (TC-11) AND USED WITH STATE STANDARD.



N

GRAPHIC SCALE
0 25 50 100 200
SCALE: 1"=50'

NOTE:

1. PROVIDE TEMPORARY SERVICE PER IDOT STANDARDS TO LEA-7 - LEB-8 THROUGHOUT CONSTRUCTION, COST INCLUDED IN MAINTENANCE OF EXISTING LIGHTING.

2. DURING STAGE II CONSTRUCTION DISCONNECT AND REMOVE EXISTING LIGHTING UNIT. RE-INSTALL ON NEW BRIDGE STRUCTURE EXISTING LUMINAIRE SHALL BE CLEANED AND RE-LAMPED PRIOR TO RE-INSTALLATION. COST INCLUDED IN UNIT PRICE OF REMOVE AND REINSTALL LIGHTING UNIT.

3. EXISTING LIGHTING UNIT SHALL BE PRESERVED DURING CONSTRUCTION. ANY DAMAGE SUSTAINED TO THE LIGHTING UNIT DURING REMOVAL OPERATIONS SHALL BE REPAIRED, OR REPLACED IN KIND TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

4. REMOVE ALL EXISTING CONDUIT AND WIRE BETWEEN LEB-6 AND LEB-8 AND BETWEEN LE-2 AND LEA-7 UNLESS NOTED OTHERWISE.

JOSEPH J. ROMANO 062-0?????? LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
EXP 11/30/11

FILE NAME = ...\01-62101-sht-pavmarklighting.dgn	DESIGNED - MC	REVISED -	
	DRAWN - MC	REVISED -	
PLOT TIME = 11:00:40 AM	CHECKED - TRP	REVISED -	
PLOT DATE = 6/22/2011	DATE - 06/24/2011	REVISED -	

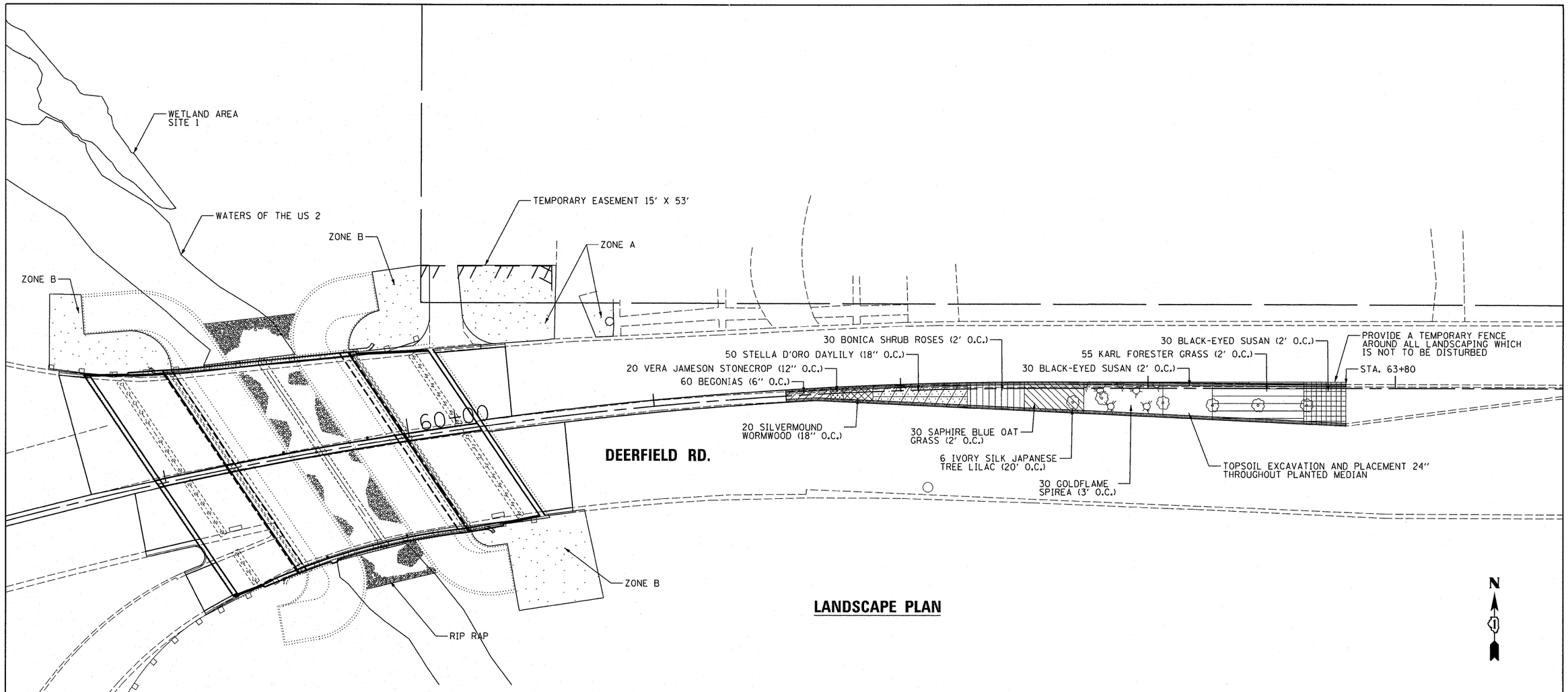
EPSTEIN
600 W FULTON ST CHICAGO, ILLINOIS 60661-1259 TEL 312 454 9100 FAX 312 559 1217 WEB www.epstein-isi.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND ELECTRICAL PLAN

SCALE: 1" = 50' | SHEET NO. 1 OF 1 SHEETS | STA. 55+00.00 TO STA. 70+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	17
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		



LANDSCAPE PLAN

SCHEDULE OF LANDSCAPE ITEMS

CODE NUMBER	ITEMS DESCRIPTION	UNIT	TOTAL QUANTITY
B2006268	TREES	EACH	6
	SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 7' CLUMP		
1008616	SHRUB,	EACH	30
	ROSA BONICA (BONICA MEIDILAND ROSE), 3-GALLON CONTAINER GROWN,		
C2C09918	SHRUB,	EACH	30
	SPIREA X BUMALDA GOLD FLAME (GOLD FLAME BUMALD SPIREA), 18" HEIGHT, CONTAINER		
K0012980	PERENNIAL PLANTS, ORNAMENTAL TYPE, QUART POT	UNIT	0.20
	VERA JAMESON STONECROP		
K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT		
	BLACK - EYED SUSAN	UNIT	0.60
	KARL FOESTER GRASS	UNIT	0.55
	SAPPHIRE BLUE OAT GRASS	UNIT	0.30
	SILVERMOUND WORMWOOD	UNIT	0.20
	STELLA DE ORO DAYLILIES	UNIT	0.50
1008614	ANNUAL PLANTS	EACH	60
	BEGONIAS, 1 QUART		

GRAPHIC SCALE
0 10 20 40 80
SCALE: 1"=20'

NOTE:

IF AREAS MARKED ZONE A ARE TO BE DISTURBED DURING CONSTRUCTION, THE AREA IS TO BE RESTORED USING SEEDING CLASS 1A, NITROGEN, PHOSPHORUS, AND POTASSIUM FERTILIZERS, AND MULCHING METHOD 2.

IF AREAS MARKED ZONE B ARE TO BE DISTRUBED DURING CONSTRUCTION, THE AREA IS TO BE RESTORED USING SEEDING CLASS 4A AND EROSION CONTROL BLANKETS.

Rev

FILE NAME = ...\D1-62101-sht-lndwetlndpln.dgn	DESIGNED - MC	REVISED -
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	DATE - 08/09/2011	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

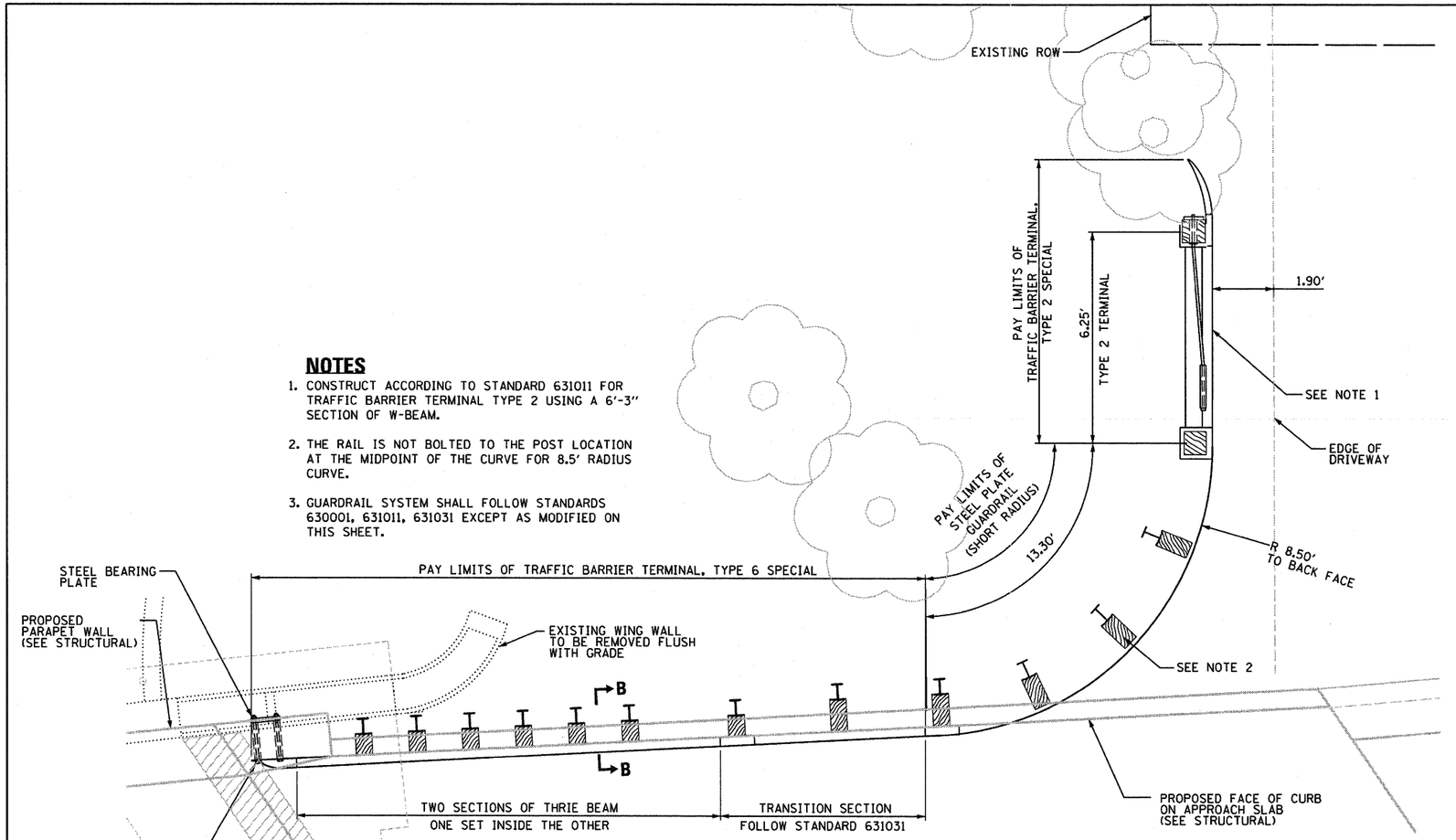
LANDSCAPING PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. 58+33.23 TO STA. 64+67.85

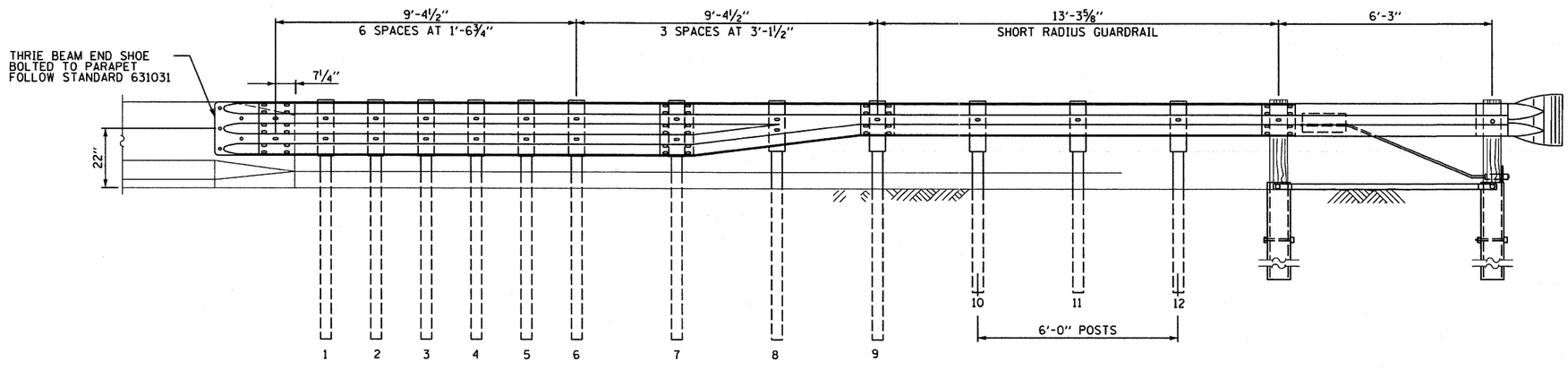
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	18
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

NOTES

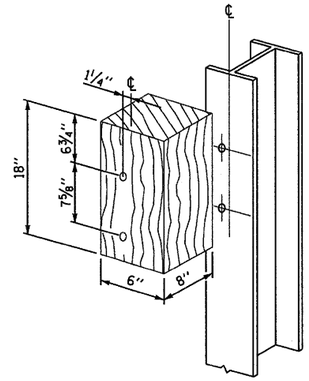
1. CONSTRUCT ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL TYPE 2 USING A 6'-3" SECTION OF W-BEAM.
2. THE RAIL IS NOT BOLTED TO THE POST LOCATION AT THE MIDPOINT OF THE CURVE FOR 8.5' RADIUS CURVE.
3. GUARDRAIL SYSTEM SHALL FOLLOW STANDARDS 630001, 631011, 631031 EXCEPT AS MODIFIED ON THIS SHEET.



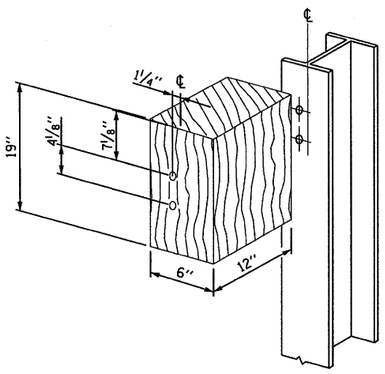
PLAN



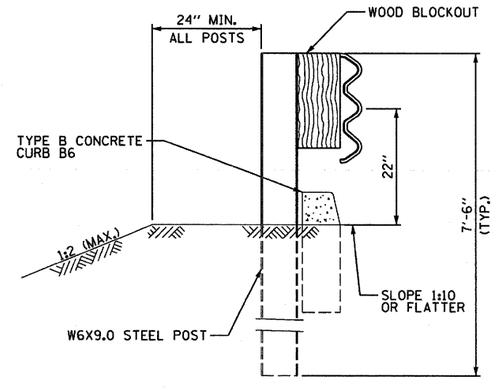
ELEVATION



POSTS 1–7 WOOD BLOCKOUT DETAIL



POST 8 WOOD BLOCKOUT DETAIL
(FOLLOW 630001 FOR POST 9-12 BLOCKOUTS)



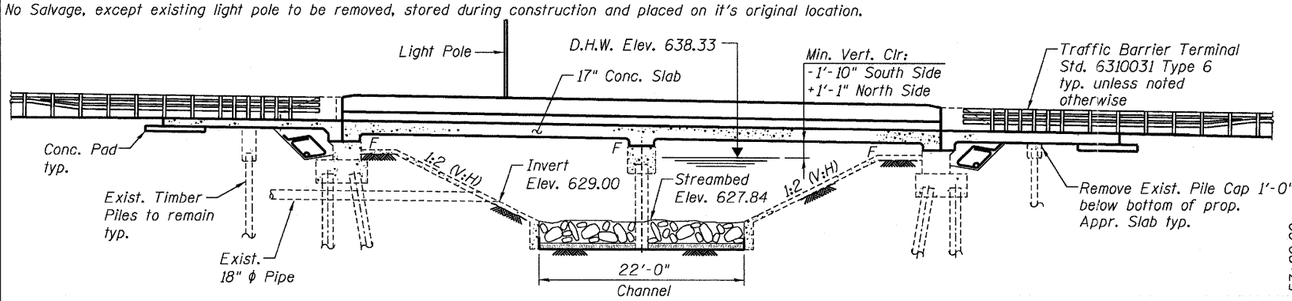
SECTION B–B

FILE NAME = ...\D1-62101-sht-guardraildetails.dgn	DESIGNED - MC	REVISED -	STEPSTEIN 600 W FULTON ST CHICAGO, ILLINOIS 60661-1259 TEL 312 454 9100 FAX 312 559 1217 WEB www.epstein-lat.com	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT TIME = 9:49:07 AM	DRAWN - MC	REVISED -				1257	104RB-R	LAKE	54	19
PLOT DATE = 6/23/2011	CHECKED - TRP	REVISED -			SCALE: 1" = 2' SHEET NO. 1 OF 1 SHEETS STA. 59+67.67 TO STA. 60+29.47			CONTRACT NO. 62102		
	DATE - 06/24/2011	REVISED -						ILLINOIS FED. AID PROJECT		

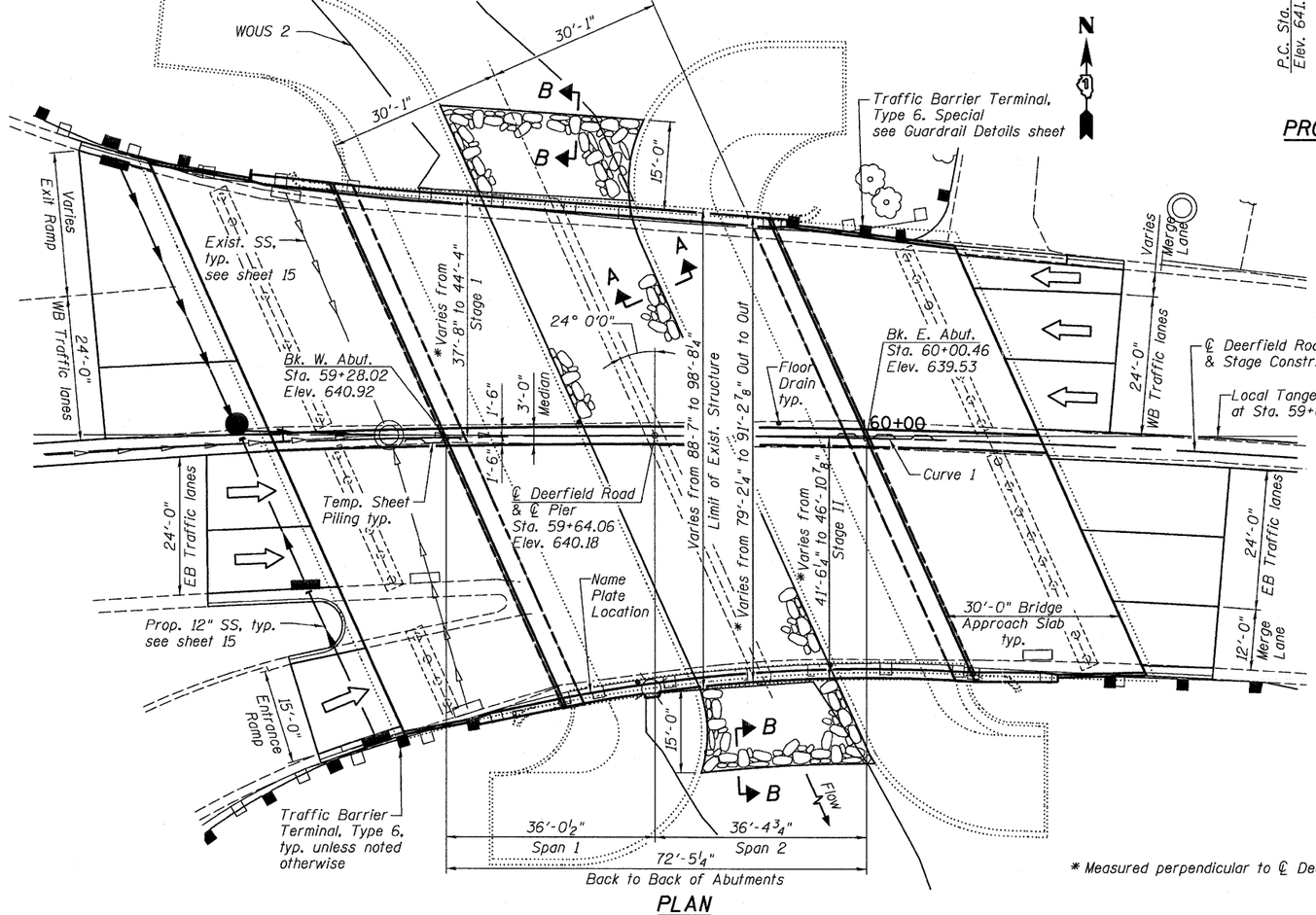
BM-#1: Chiseled square located at center of headwall South of Deerfield Road and North of Exit ramp West of US 41 South Bound lanes. Elev.=636.99.
BM-#4: Chiseled square cut in the top of the Southeast Wingwall, Elev.=638.64.

Existing structure: S.N. 049-0088 is a two equal span continuous R.C. Slab bridge, built in 1962 as part of FAU Route 1257 Section 104RB-R at Sta. 59+64.06. Structure consists of 16" thick slab with 2" thick microsilica concrete overlay supported by pile bent abutments and pier.
The structure is 72'-5¼" Back to Back of Abutments with Out to Out width varies from 98'-8¼" to 88'-7". Bridge carries 2 thru traffic lanes and merge/ramp lane in each direction.
Existing superstructure to be removed and replaced with 2-span continuous R.C. Slab Bridge. Deteriorated portion of slope wall to be repaired.
Scour protection measures at the pier to be constructed.
Traffic to be maintained utilizing stage construction.

No Salvage, except existing light pole to be removed, stored during construction and placed on it's original location.

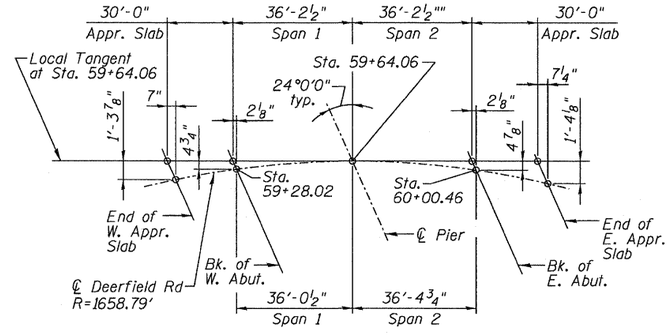


ELEVATION

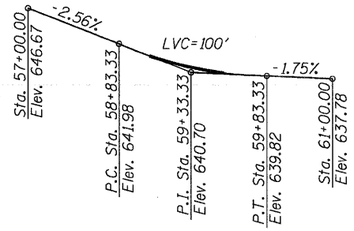


PLAN

* Measured perpendicular to ℄ Deerfield Road



OFFSET SKETCH



PROFILE GRADE

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

EXISTING STRUCTURE

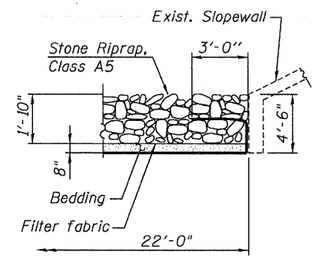
fc = 1,400 psi
fs = 20,000 psi (Reinforcement)
fs = 18,000 psi (Structural Steel)

NEW CONSTRUCTION

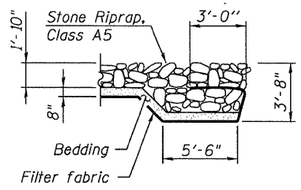
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.5



SECTION A-A

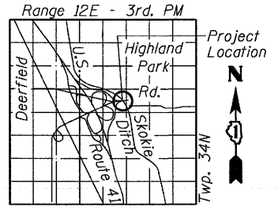


SECTION B-B

WATERWAY INFORMATION

Drainage Area = 16.8 sq miles Low Grade Elev. 640.70 @ Sta. 60+12.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	923	349	349	637.14	0.00	0.00	637.14	637.14
Design	50	1498	430	430	638.33	0.24	0.24	638.57	638.57
Base	100	1798	461	461	638.81	0.39	0.39	639.20	639.20
Overtopping									
Max. Calc.	500	2742	537	537	640.26	0.84	0.84	641.10	641.10



LOCATION SKETCH

PIJUSH K. CHATTERJEE
081-005076
LICENSED STRUCTURAL ENGINEER
ILLINOIS

Pijush K. Chatterjee 6/23/2011
Expires: 11/30/2012

STATION 59+64.06
RE-BUILT 201_ BY
STATE OF ILLINOIS
F.A.U. RTE. 1257 SEC. 104RB-R
LOADING HS20
STR. NO. 049-0088

NAME PLATE

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN AND ELEVATION
DEERFIELD ROAD BRIDGE
OVER EAST SKOKIE DITCH
SN 049-0088

FILE NAME = ...\049008B-001-GenPlan.DGN	DESIGNED EV	REVISED -	
	DRAWN EV	REVISED -	
PLOT TIME = 3:46:53 PM	CHECKED PC	REVISED -	
PLOT DATE = 6/23/2011	DATE 06 24 2011	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S1 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	20
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		

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GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

Slipforming of the parapets is not allowed.

The Contractor shall prepare in-stream work plans (all cofferdams, work pads, and erosion and sediment control, etc.) and submit to the Engineer and the U.S. Army Corp of Engineers for review and approval. The Contractor should expect to have to attend meetings at the USACOE office to discuss their work plan in order to secure their permit. The cost of all in-stream work items will not be paid for separately, but shall be considered as included in the unit bid prices of the contract, and no additional compensation will be allowed.

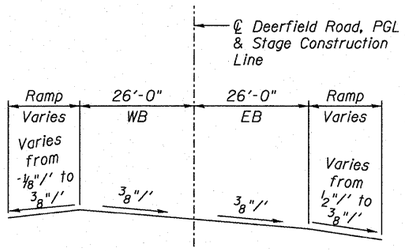
TOTAL BILL OF MATERIAL

ITEMS	UNITS	SUPERSTRUCTURE	SUBSTRUCTURE	TOTAL
Porous Granular Embankment, Special	CU YD		78	78
Stone Riprap, Class A5	SQ YD		314	314
Filter Fabric	SQ YD		314	314
Removal of Existing Superstructure	EACH			1
Concrete Removal	CU YD		36	36
Structure Excavation	CU YD		98	98
Floor Drain	EACH	4		4
Concrete Structures	CU YD		60	60
Concrete Superstructure	CU YD	660		660
Bridge Deck Grooving	SQ YD	1,104		1,104
Protective Coat	SQ YD	1,311		1,311
Reinforcement Bars, Epoxy Coated	POUND	173,440	13,790	187,230
Bar Splicers	EACH		84	84
Temporary Sheet Piling	SQ FT		258	258
Name Plates	EACH			1
Geocomposite Wall Drain	SQ YD		65	65
Pipe Underdrains for Structures 4"	FOOT		217	217
Slope Wall Crack Sealing	FOOT		217	217
Slope Wall Repair	SQ YD		62	62

INDEX OF BRIDGE DRAWINGS

HORIZONTAL CURVE DATA

℄ Deerfield Road Prop. Curve C101
P.I. STA= 58+89.52
Δ= 26° 06′ 17"
D= 03° 27′ 15"
R= 1658.79′
T= 384.56′
L= 755.77′
P.C. STA= 55+04.96
P.T. STA= 62+60.73
E= 43.99



SUPERELEVATION DETAILS

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PLOT DATE = 8/9/2011	CHECKED PC	REVISED -					
	DATE 08 09 2011	REVISED -					

COUNTY	TOTAL SHEETS	SHEET NO.
LAKE	54	21
CONTRACT NO. 62102		
ILLINOIS FED. AID PROJECT		

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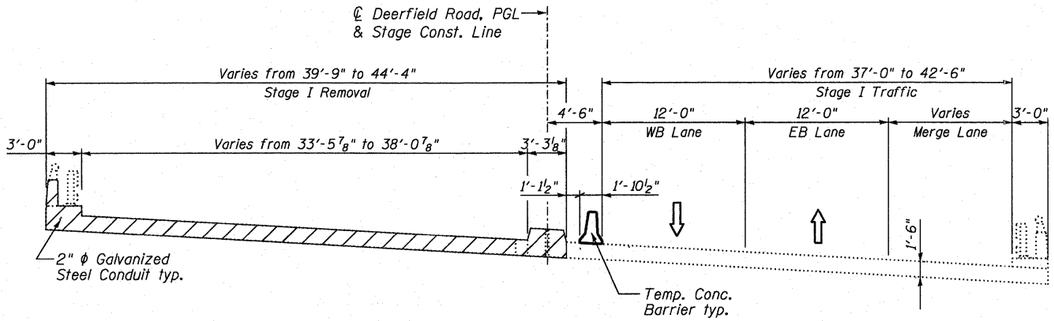
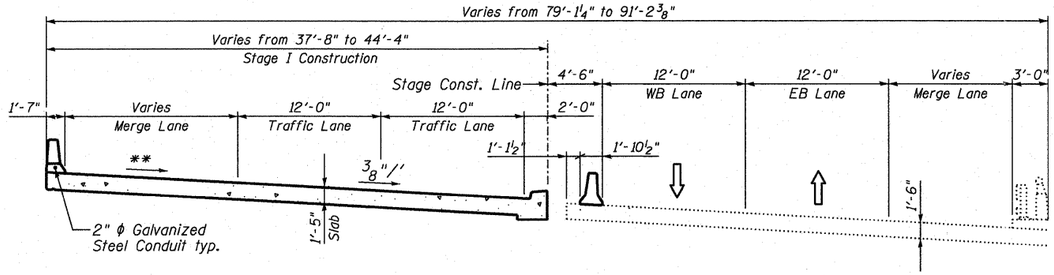


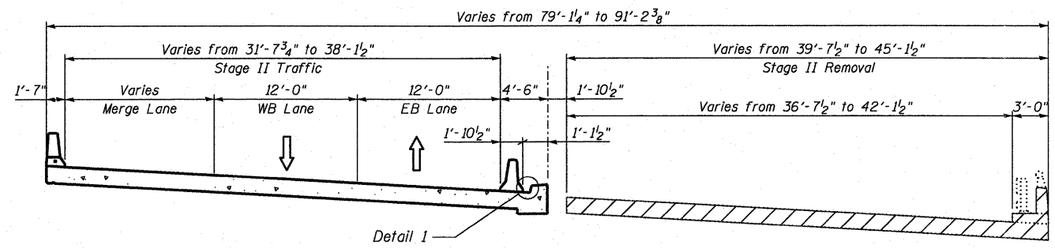
STAGE I REMOVAL

(Looking East)



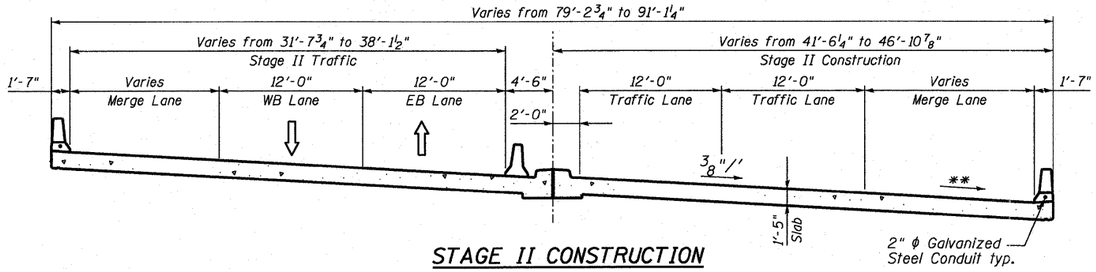
STAGE I CONSTRUCTION

(Looking East)



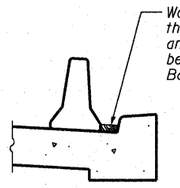
STAGE II REMOVAL

(Looking East)

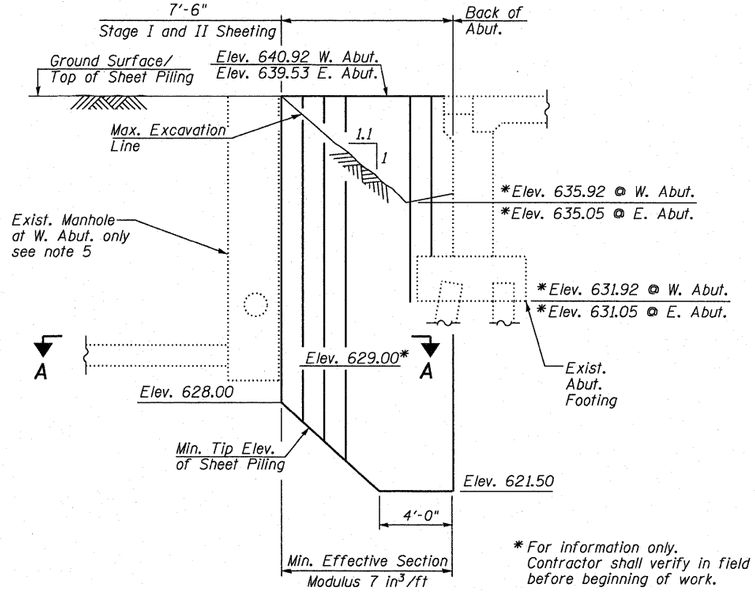


STAGE II CONSTRUCTION

(Looking East)

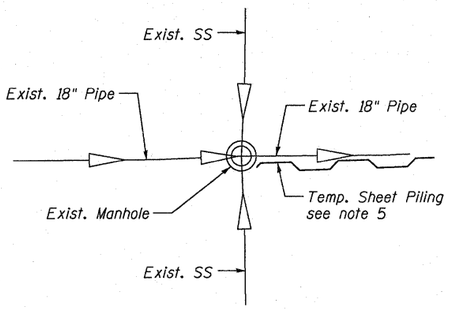


DETAIL 1



TEMPORARY SHEET PILING AT ABUTMENTS

(Slope and distance shown along alignment of sheeting)



SECTION A-A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Sheet Piling	Sq. Ft.	258

NOTES:

1. The Contractor shall connect the first sheet to the Existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost of temporary sheet piling.
2. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal sealed by a licensed Illinois Structural Engineer including plan details and calculations will be required for review and acceptance by the Engineer.
3. See sheet S22 for Temporary Concrete Barrier.
4. See Roadway plans for Temporary Concrete Barrier quantities.
5. Sheet piling to avoid existing 18" storm main as well as existing laterals. The Contractor to verify location of existing drainage system prior to beginning of work and to maintain positive drainage through duration of construction. Cost of this work is included in pay item Temporary Sheet Piling. For details on the existing drainage system see sheet 15.

** Varies, see Slab and Approach Slabs Elevation plans

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PLOT DATE = 8/9/2011	DATE 08 09 2011	REVISED -

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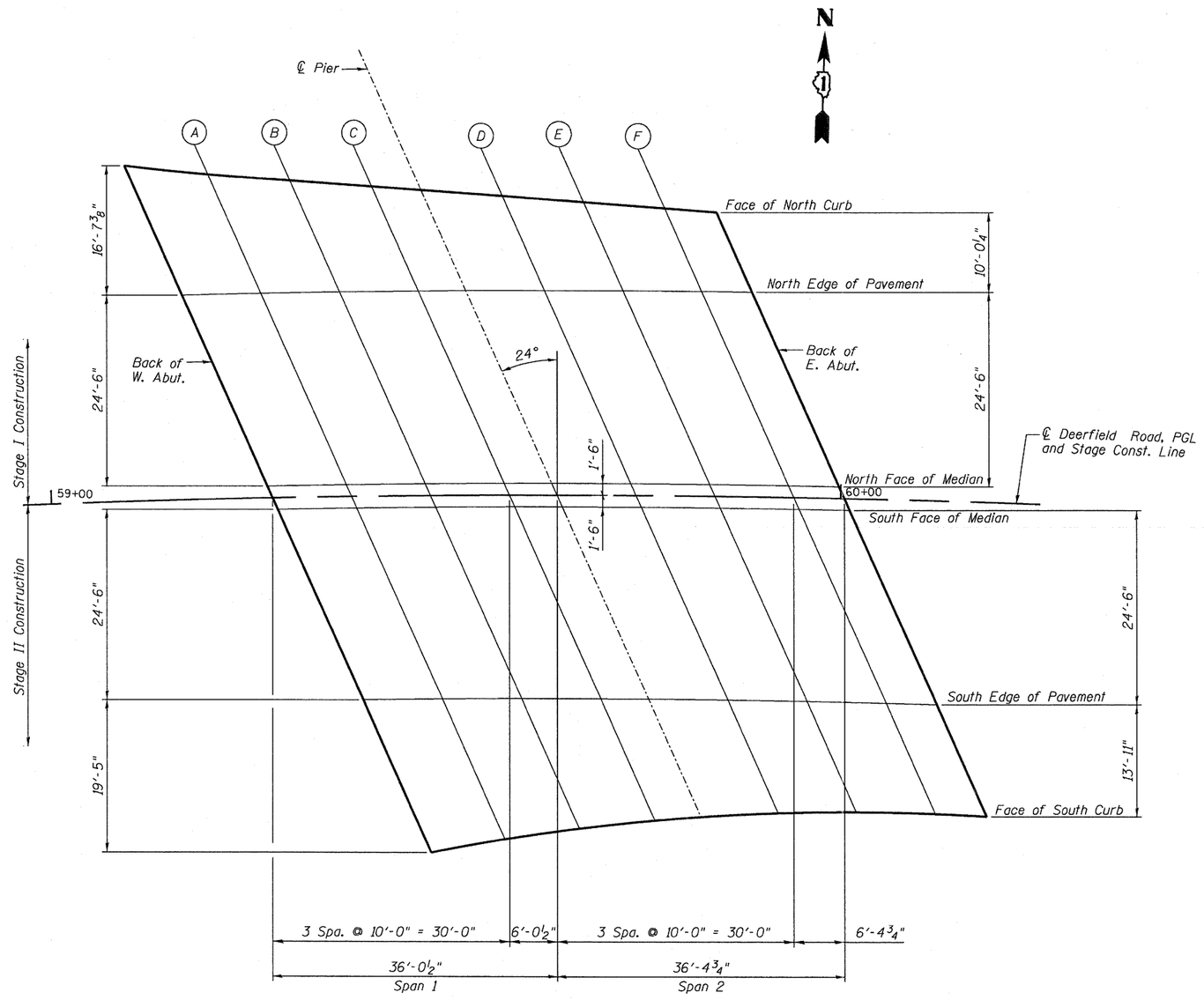
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION AND TEMPORARY SHEET PILING DETAILS
STRUCTURE NO. 049-0088
SHEET NO. S3 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	22
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			



PLAN

Notes:
1. Work this sheet with sheets S5 and S6.
2. For top of slab elevations at West Approach Slab see sheet S7.
3. For top of slab elevations at East Approach Slab see sheet S8.

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	DRAWN EV	REVISED -	
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PLOT DATE = 6/23/2011	DATE 06 24 2011	REVISED -	

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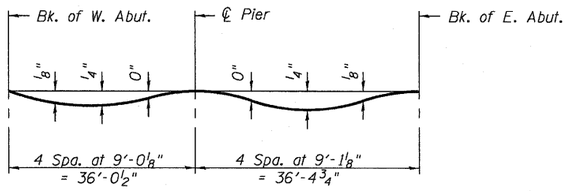
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS I
STRUCTURE NO. 049-0088
SHEET NO. S4 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	23
		CONTRACT NO. 62102		
ILLINOIS FED. AID PROJECT				



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete deck, medians and parapets)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on sheet S6.

FACE OF NORTH CURB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK W. ABUT.	59+10.63	-42.61	641.92	641.92
A	59+20.92	-41.19	641.77	641.78
B	59+31.04	-40.20	641.62	641.64
C	59+41.13	-39.31	641.47	641.47
CL PIER	59+47.23	-38.79	641.38	641.38
D	59+57.31	-37.97	641.23	641.23
E	59+67.38	-37.20	641.08	641.10
F	59+77.44	-36.47	640.93	640.94
BK E. ABUT.	59+83.86	-36.02	640.84	640.84

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK W. ABUT.	59+17.30	-26.00	641.91	641.91
A	59+27.12	-26.00	641.69	641.70
B	59+36.94	-26.00	641.47	641.49
C	59+46.76	-26.00	641.27	641.27
CL PIER	59+52.68	-26.00	641.15	641.15
D	59+62.50	-26.00	640.96	640.96
E	59+72.32	-26.00	640.77	640.79
F	59+82.14	-26.00	640.60	640.60
BK E. ABUT.	59+88.40	-26.00	640.49	640.49

NORTH FACE OF MEDIAN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK W. ABUT.	59+27.39	-1.50	640.92	640.92
A	59+37.38	-1.50	640.71	640.73
B	59+47.37	-1.50	640.51	640.52
C	59+57.36	-1.50	640.31	640.31
CL PIER	59+63.39	-1.50	640.19	640.19
D	59+73.39	-1.50	640.00	640.00
E	59+83.38	-1.50	639.82	639.84
F	59+93.37	-1.50	639.65	639.66
BK E. ABUT.	59+99.75	-1.50	639.54	639.54

Notes:
1. Work this sheet with sheets S4 and S6.
2. For top of slab elevations at West Approach, see sheet S7.
3. For top of slab elevations at East Approach, see sheet S8.

FILE NAME = ...\0490088-005-TOS Elev2.dgn	DESIGNED EV	REVISED -
	DRAWN EV	REVISED -
PLOT TIME = 9:49:21 AM	CHECKED PC	REVISED -
PLOT DATE = 6/23/2011	DATE 06 24 2011	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS II
STRUCTURE NO. 049-0088
SHEET NO. S5 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	24
		CONTRACT NO. 62102		
	ILLINOIS	FED. AID PROJECT		

℄ PGL AND STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK W. ABUT.	59+28.02	0.00	640.92	640.92
A	59+38.02	0.00	640.70	640.71
B	59+48.02	0.00	640.49	640.51
C	59+58.02	0.00	640.29	640.29
CL PIER	59+64.06	0.00	640.18	640.18
D	59+74.06	0.00	639.99	639.99
E	59+84.06	0.00	639.81	639.83
F	59+94.06	0.00	639.64	639.64
BK E. ABUT.	60+00.46	0.00	639.53	639.53

SOUTH FACE OF MEDIAN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK W. ABUT.	59+28.65	1.50	640.90	640.90
A	59+38.66	1.50	640.69	640.70
B	59+48.67	1.50	640.48	640.50
C	59+58.68	1.50	640.28	640.28
CL PIER	59+64.73	1.50	640.16	640.16
D	59+74.74	1.50	639.98	639.98
E	59+84.75	1.50	639.80	639.82
F	59+94.76	1.50	639.63	639.63
BK E. ABUT.	60+01.17	1.50	639.51	639.51

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK W. ABUT.	59+39.12	26.00	639.93	639.93
A	59+49.31	26.00	639.72	639.73
B	59+59.50	26.00	639.52	639.53
C	59+69.69	26.00	639.32	639.32
CL PIER	59+75.84	26.00	639.21	639.21
D	59+86.03	26.00	639.03	639.03
E	59+96.22	26.00	638.85	638.87
F	60+06.41	26.00	638.67	638.68
BK E. ABUT.	60+12.94	26.00	638.56	638.56

FACE OF SOUTH CURB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK W. ABUT.	59+47.65	45.41	638.96	638.96
A	59+57.25	43.78	638.86	638.87
B	59+66.95	42.42	638.74	638.76
C	59+76.75	41.32	638.62	638.62
CL PIER	59+82.73	40.80	638.55	638.55
D	59+92.73	40.16	638.41	638.41
E	60+02.87	39.81	638.26	638.28
F	60+13.15	39.77	638.10	638.11
BK E. ABUT.	60+19.80	39.91	637.99	637.99

Notes:
1. Work this sheet with sheets S4 and S5.
2. For top of slab elevations at West Approach, see sheet S7.
3. For top of slab elevations at East Approach, see sheet S8.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS III
STRUCTURE NO. 049-0088
SHEET NO. S6 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	25
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

FACE OF NORTH CURB

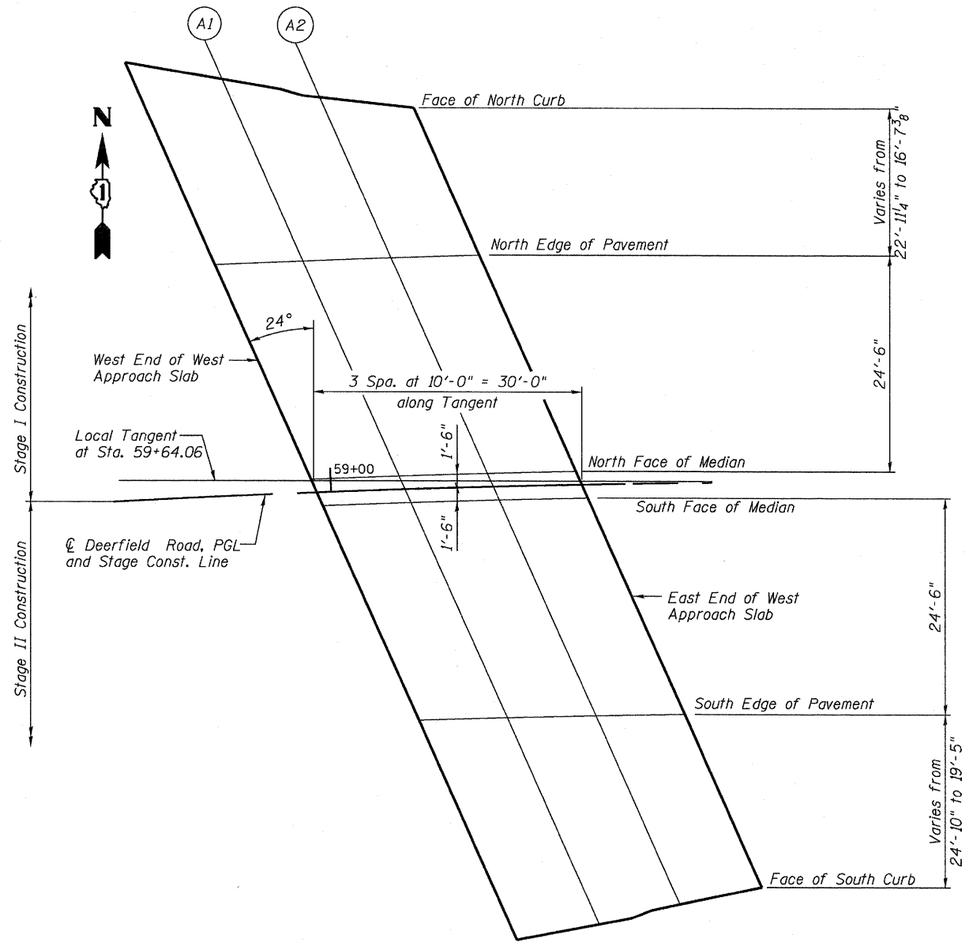
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	58+79.50	-48.94	642.34
A1	58+89.92	-46.59	642.18
A2	59+00.43	-44.14	642.06
E. End West Appr. Slab	59+10.63	-42.61	641.92

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	58+88.22	-26.00	642.61
A1	58+97.89	-26.00	642.37
A2	59+07.58	-26.00	642.13
E. End West Appr. Slab	59+17.30	-26.00	641.91

NORTH FACE OF MEDIAN

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	58+97.81	-1.50	641.62
A1	59+07.65	-1.50	641.38
A2	59+17.51	-1.50	641.15
E. End West Appr. Slab	59+27.39	-1.50	640.93



PLAN

℄ ROADWAY, PGL AND STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	58+98.41	0.00	641.60
A1	59+08.26	0.00	641.37
A2	59+18.13	0.00	641.14
E. End West Appr. Slab	59+28.02	0.00	640.92

SOUTH FACE OF MEDIAN

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	58+99.01	1.50	641.59
A1	59+08.87	1.50	641.35
A2	59+18.75	1.50	641.12
E. End West Appr. Slab	59+28.65	1.50	640.90

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	59+08.95	26.00	640.60
A1	59+18.98	26.00	640.37
A2	59+29.04	26.00	640.14
E. End West Appr. Slab	59+39.12	26.00	639.93

FACE OF SOUTH CURB

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	59+19.37	50.84	639.23
A1	59+28.92	49.31	639.14
A2	59+38.23	47.23	639.06
E. End West Appr. Slab	59+47.65	45.41	638.96

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TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 049-0088
SHEET NO. 57 OF 522 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	26
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

FACE OF NORTH CURB

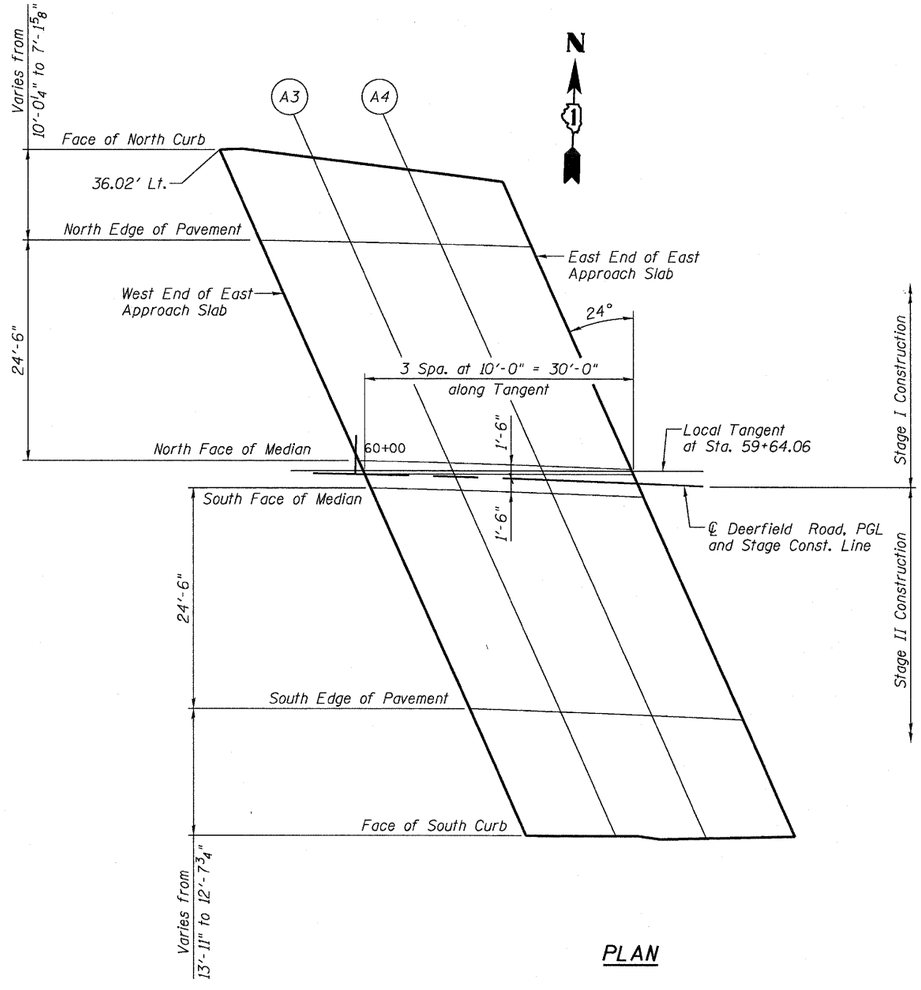
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	59+83.86	-36.02	640.84
A3	59+94.05	-35.29	640.69
A4	60+04.46	-34.18	640.51
E. End East Appr. Slab	60+14.87	-33.14	640.32

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	59+88.40	-26.00	640.49
A3	59+98.33	-26.00	640.31
A4	60+08.28	-26.00	640.14
E. End East Appr. Slab	60+18.26	-26.00	639.96

NORTH FACE OF MEDIAN

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	59+99.75	-1.50	639.54
A3	60+09.86	-1.50	639.36
A4	60+19.99	-1.50	639.18
E. End East Appr. Slab	60+30.16	-1.50	639.01



PLAN

℄ ROADWAY, PGL AND STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	60+00.46	0.00	639.53
A3	60+10.57	0.00	639.35
A4	60+20.72	0.00	639.17
E. End East Appr. Slab	60+30.90	0.00	638.99

SOUTH FACE OF MEDIAN

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	60+01.17	1.50	639.51
A3	60+11.29	1.50	639.34
A4	60+21.45	1.50	639.16
E. End East Appr. Slab	60+31.64	1.50	638.98

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	60+12.94	26.00	638.56
A3	60+23.26	26.00	638.38
A4	60+33.60	26.00	638.20
E. End East Appr. Slab	60+43.98	26.00	638.01

FACE OF SOUTH CURB

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	60+19.80	39.91	637.99
A3	60+30.05	39.56	637.84
A4	60+40.41	39.37	637.67
E. End East Appr. Slab	60+50.52	38.65	637.47

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TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 049-0088
SHEET NO. S8 OF S22 SHEETS

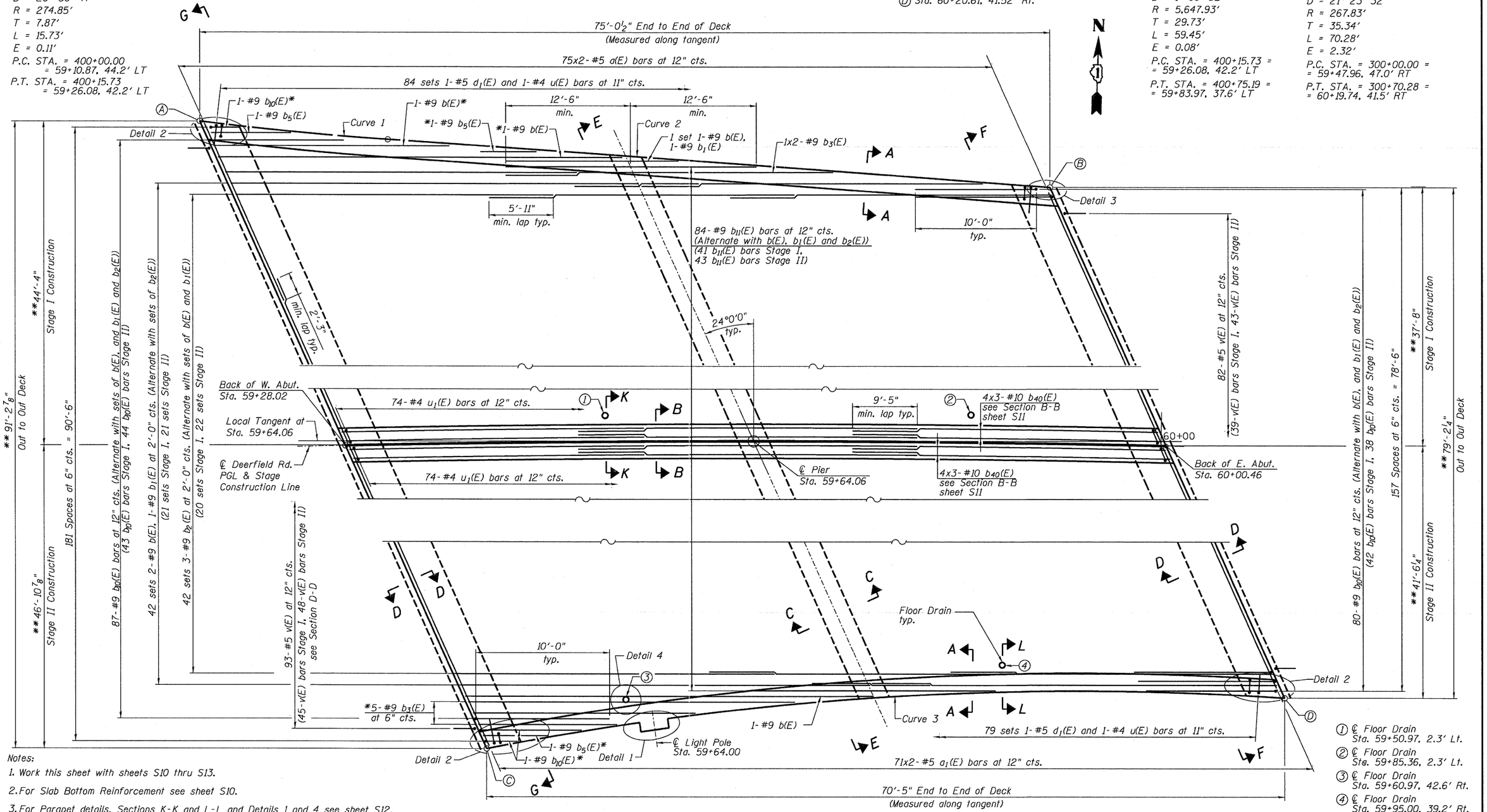
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	27
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

CURVE 1
PI STA. = 400+07.87 = 59+18.44, 43.0' LT
Δ = 3° 16' 47" (LT)
D = 20° 50' 47"
R = 274.85'
T = 7.87'
L = 15.73'
E = 0.11'
P.C. STA. = 400+00.00 = 59+10.87, 44.2' LT
P.T. STA. = 400+15.73 = 59+26.08, 42.2' LT

Ⓐ Sta. 59+09.95, 44.33' Lt.
Ⓑ Sta. 59+83.13, 37.66' Lt.
Ⓒ Sta. 59+48.32, 46.90' Rt.
Ⓓ Sta. 60+20.61, 41.52' Rt.

CURVE 2
PI STA. = 400+45.46 = = 59+55.00, 39.8' LT
Δ = 0° 36' 11" (RT)
D = 1° 00' 52"
R = 5,647.93'
T = 29.73'
L = 59.45'
E = 0.08'
P.C. STA. = 400+15.73 = = 59+26.08, 42.2' LT
P.T. STA. = 400+75.19 = = 59+83.97, 37.6' LT

CURVE 3
PI STA. = 300+35.34 = = 59+83.54, 40.0' RT
Δ = 15° 02' 05" (RT)
D = 21° 23' 32"
R = 267.83'
T = 35.34'
L = 70.28'
E = 2.32'
P.C. STA. = 300+00.00 = = 59+47.96, 47.0' RT
P.T. STA. = 300+70.28 = = 60+19.74, 41.5' RT



Notes:
1. Work this sheet with sheets S10 thru S13.
2. For Slab Bottom Reinforcement see sheet S10.
3. For Parapet details, Sections K-K and L-L and Details 1 and 4 see sheet S12.
4. For Sections E-E thru G-G and Bill of Materials see sheet S13.
5. For Deck Cross Section and Sections A-A thru D-D see sheet S11.
6. Bars indicated thus 2 x 3-#5 etc. indicates 2 lines of bars with 3 lengths per line.
7. For Light Pole details see sheet 17.
8. For Details 2 and 3 see sheet S11.

SLAB TOP REINFORCEMENT

* Cut in field to fit
** Measured perpendicular to the ℄ Deerfield Road

① ℄ Floor Drain Sta. 59+50.97, 2.3' Lt.
② ℄ Floor Drain Sta. 59+85.36, 2.3' Lt.
③ ℄ Floor Drain Sta. 59+60.97, 42.6' Rt.
④ ℄ Floor Drain Sta. 59+95.00, 39.2' Rt.

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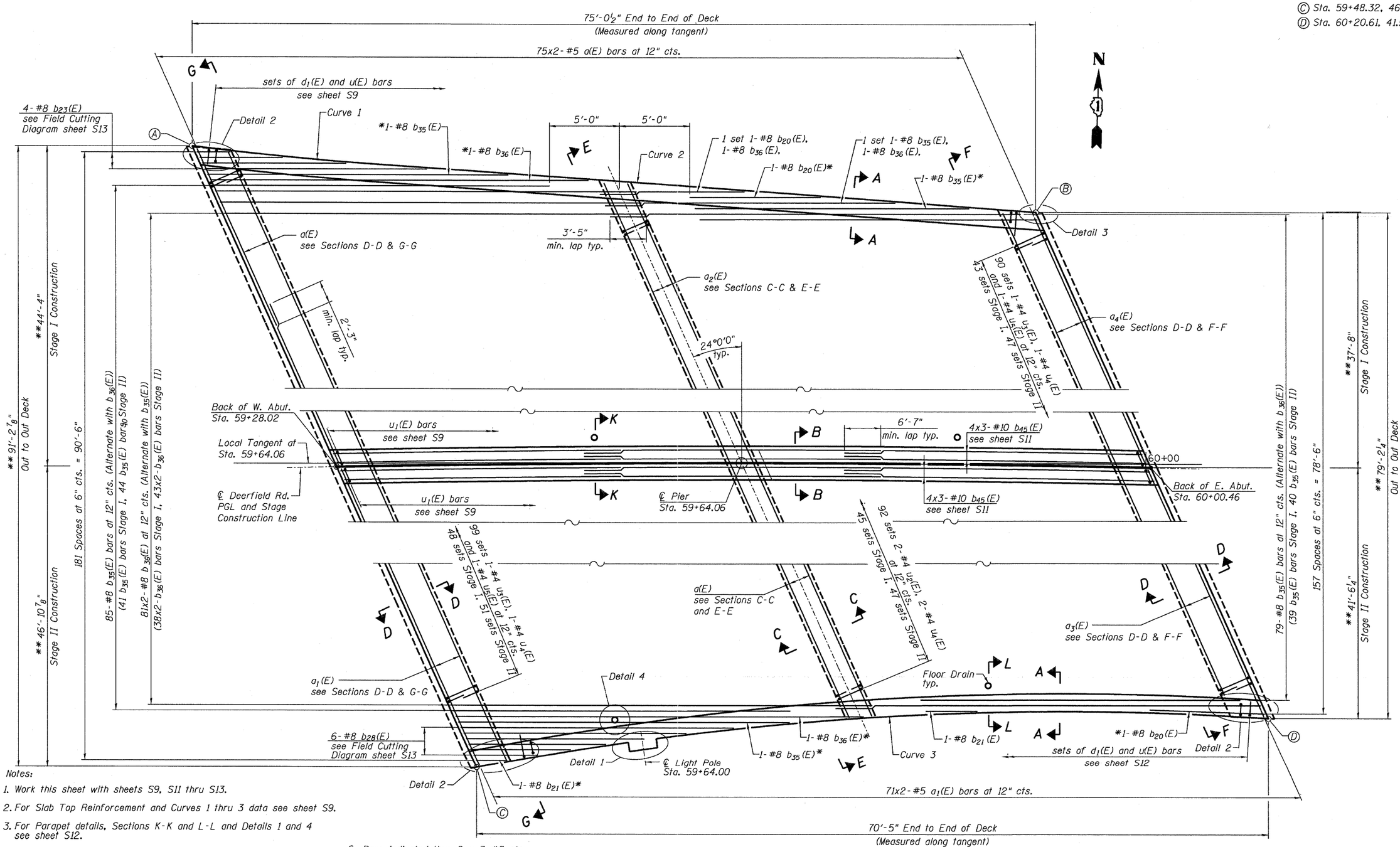
BRIDGE SLAB TOP REINFORCEMENT
SN. 049-0088
SHEET NO. S9 OF S22 SHEETS

F.A.I.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	28
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

Ⓐ Sta. 59+09.95, 44.33' Lt.
Ⓑ Sta. 59+83.13, 37.66' Lt.
Ⓒ Sta. 59+48.32, 46.90' Rt.
Ⓓ Sta. 60+20.61, 41.52' Rt.



Notes:

1. Work this sheet with sheets S9, S11 thru S13.
2. For Slab Top Reinforcement and Curves 1 thru 3 data see sheet S9.
3. For Parapet details, Sections K-K and L-L and Details 1 and 4 see sheet S12.
4. For Sections E-E thru G-G and Bill of Materials see sheet S13.
5. For Deck Cross Section, Sections A-A thru D-D and Details 2 and 3 sheet S11.
6. Bars indicated thus 2 x 3-#5 etc. indicates 2 lines of bars with 3 lengths per line.
7. For Curves 1 thru 3 data see sheet S9.

SLAB BOTTOM REINFORCEMENT

* Cut in field to fit
** Measured perpendicular to the ℄ Deerfield Road

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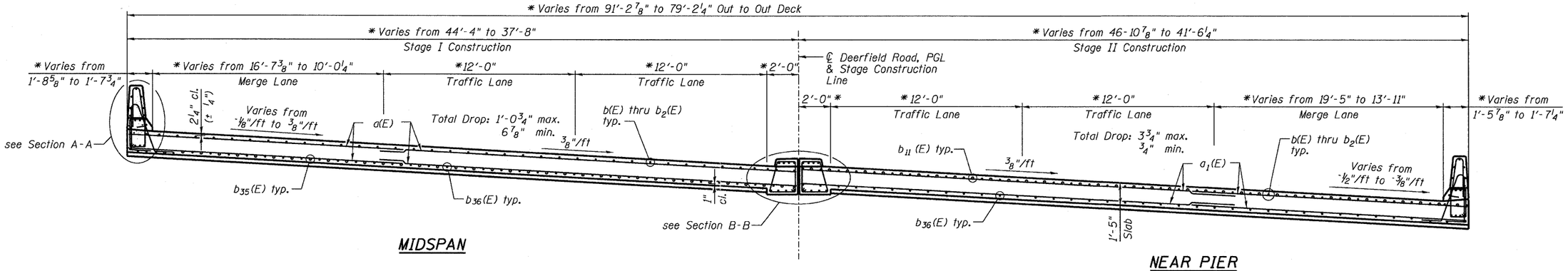
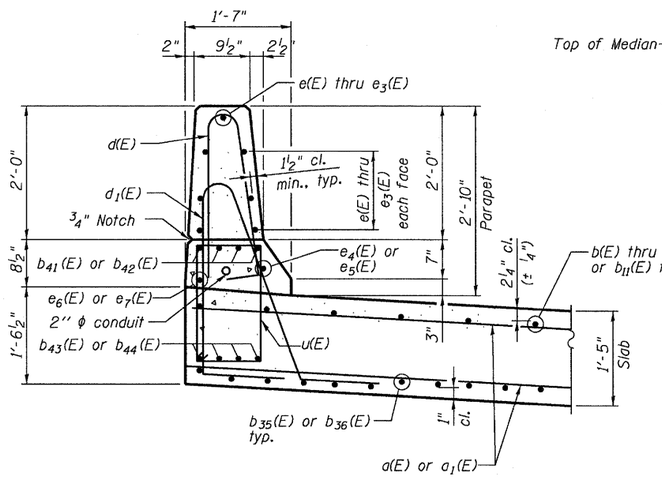
BRIDGE SLAB BOTTOM REINFORCEMENT
SN. 049-0088
SHEET NO. S10 OF S22 SHEETS

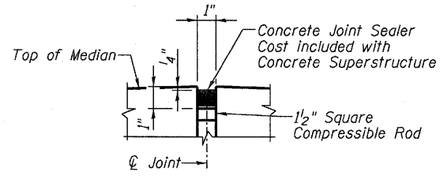
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	29
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		



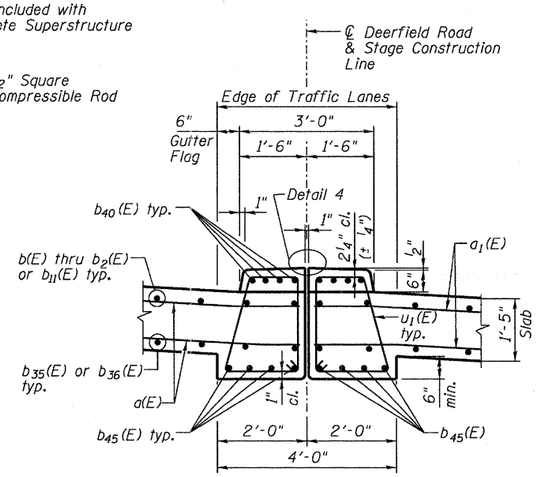
MIDSPAN **CROSS SECTION** (Looking East) **NEAR PIER**



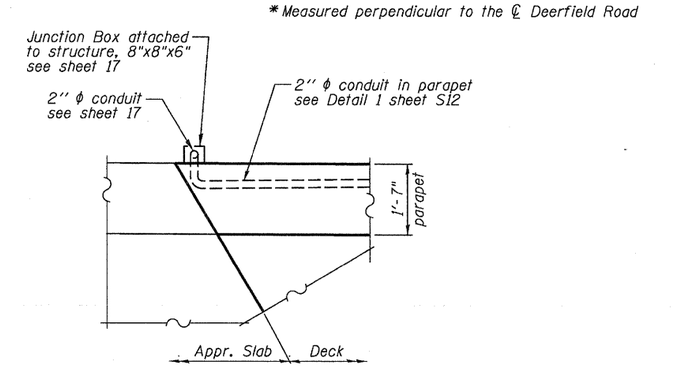
SECTION A-A



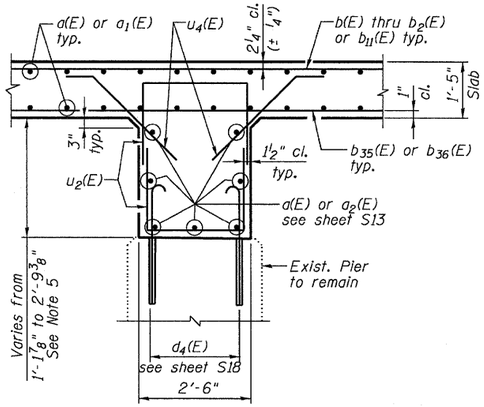
DETAIL 4



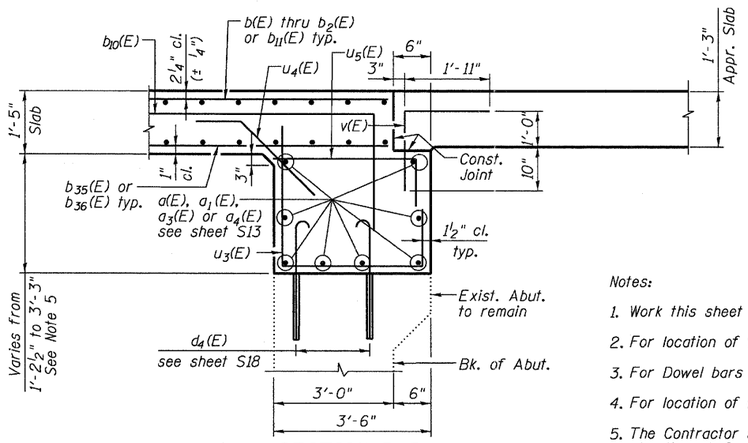
SECTION B-B



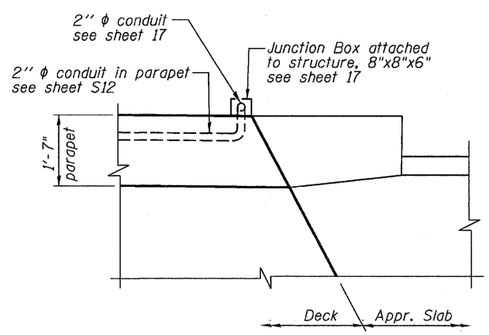
DETAIL 2
(NW Corner shown, SW & SE similar)



SECTION C-C



SECTION D-D



DETAIL 3

Notes:

1. Work this sheet with sheets S9, S10, S12 and S13.
2. For location of Sections B-B thru D-D see sheets S9 and S10.
3. For Dowel bars d (E) layout see sheet S18.
4. For location of Details 2 and 3 see sheets S9 and S10.
5. The Contractor shall verify in field top of existing concrete elevations before beginning construction.

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SUPERSTRUCTURE DETAILS 1
STRUCTURE NO. 049-0088
SHEET NO. S11 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	30
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

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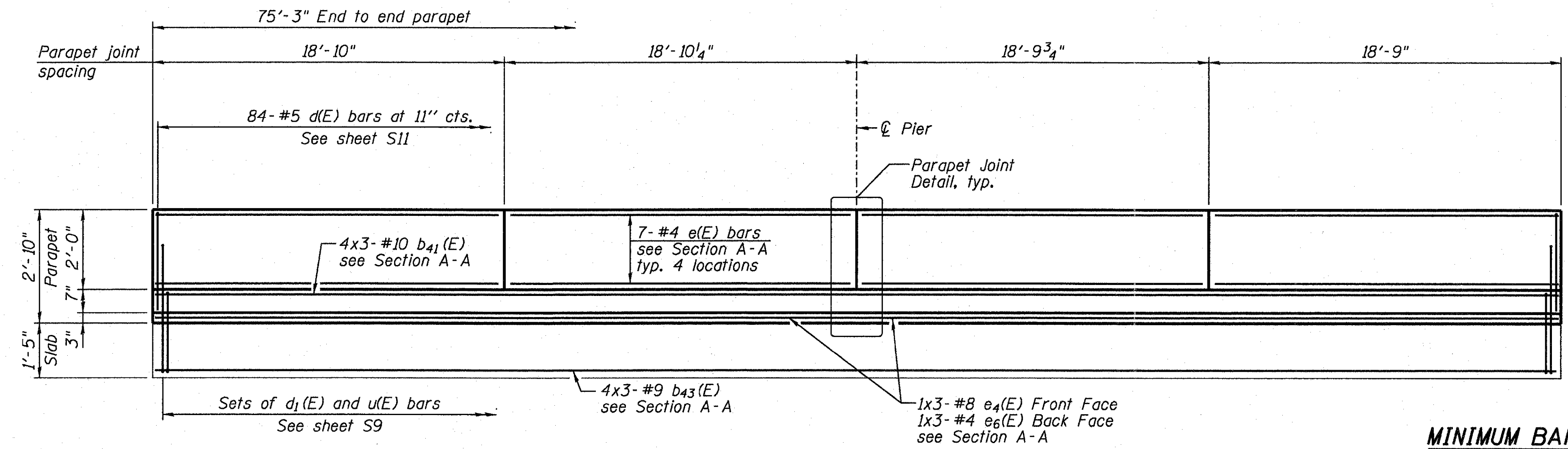
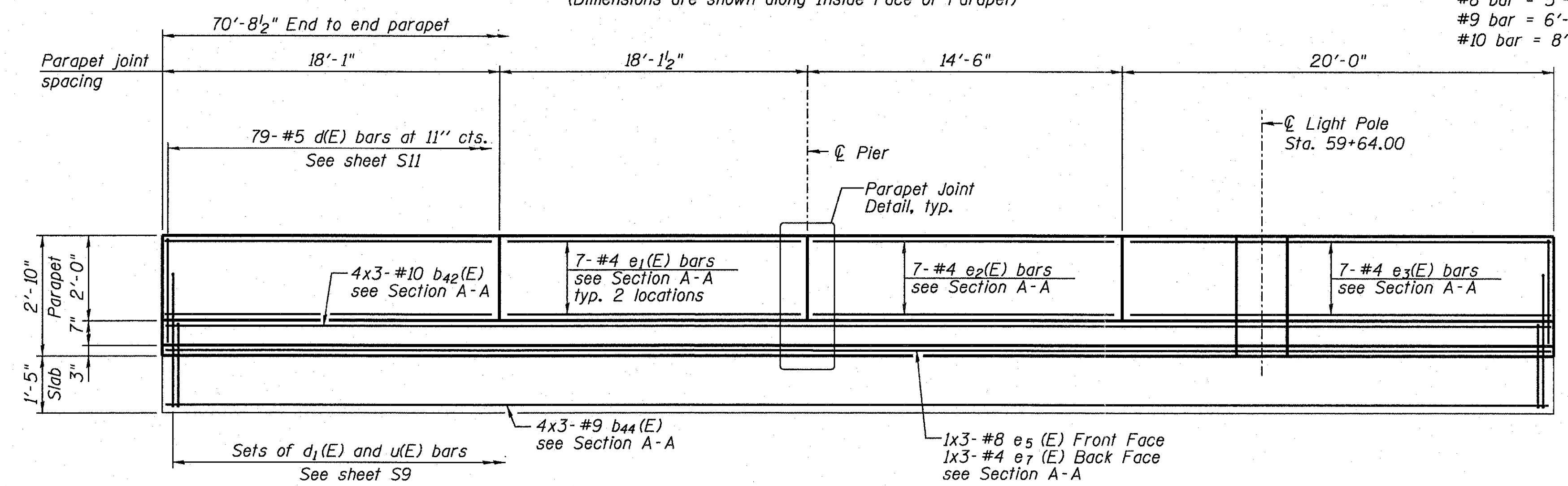


INSIDE ELEVATION OF NORTH PARAPET

(Dimensions are shown along Inside Face of Parapet)



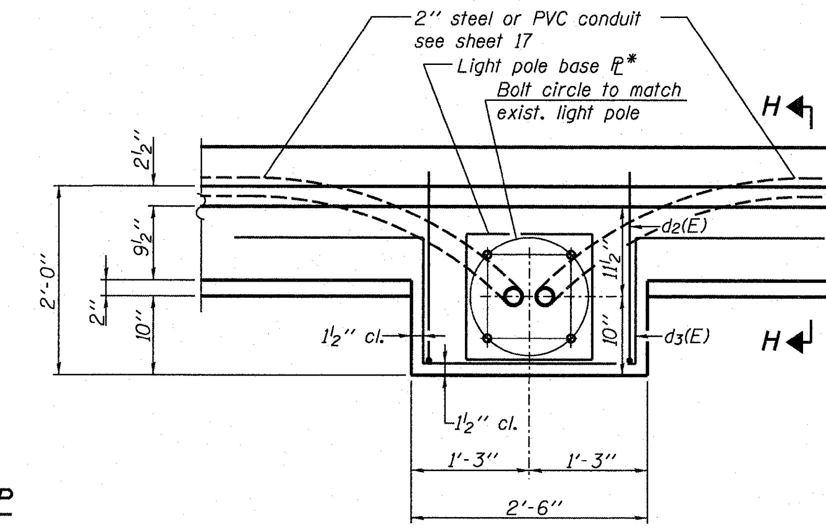
INSIDE ELEVATION OF SOUTH PARAPET

(Dimensions are shown along Inside Face of Parapet)

MINIMUM BAR LAP

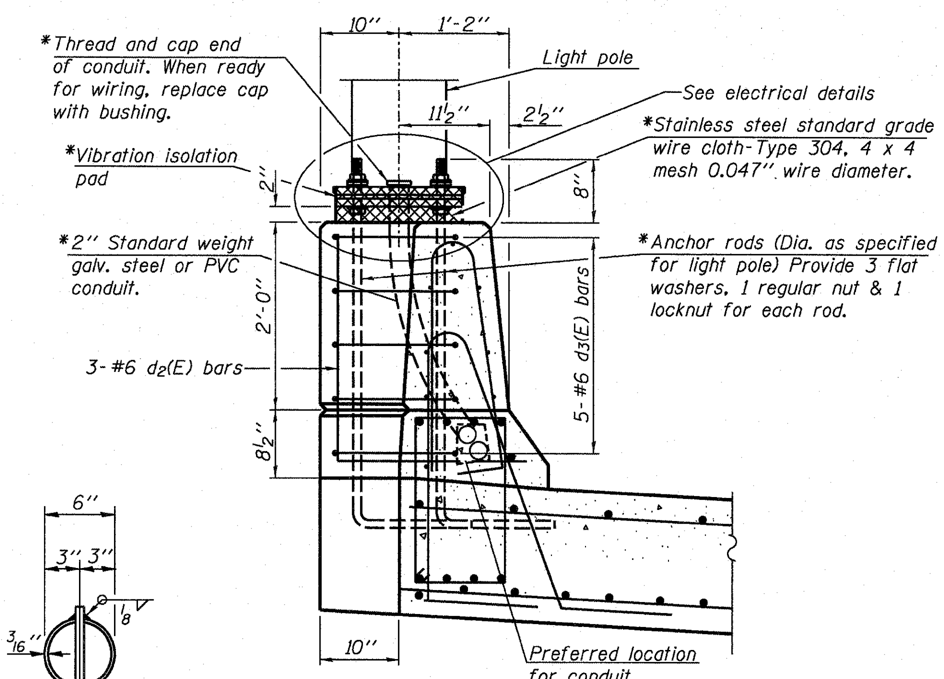
(Parapet)

#4 bar = 2'-0"
#8 bar = 5'-2"
#9 bar = 6'-7"
#10 bar = 8'-4"

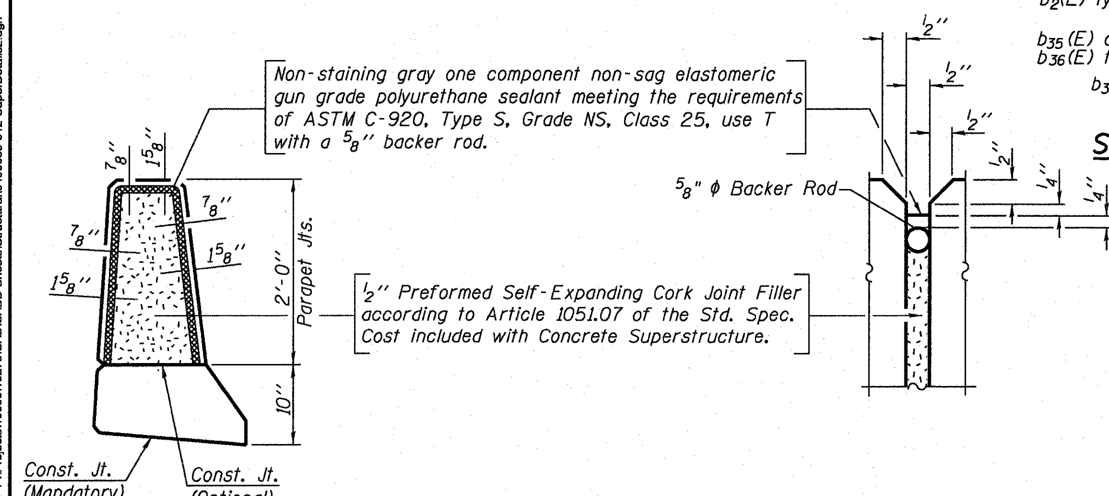


DETAIL 1

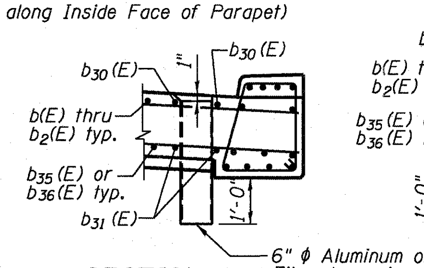
*Cost is included with Concrete Superstructure.



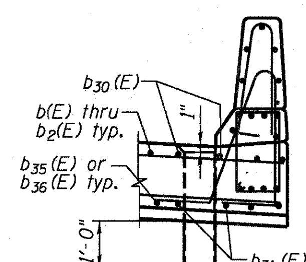
SECTION H-H



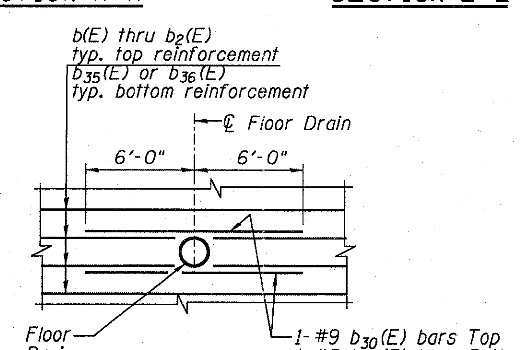
PARAPET JOINT DETAILS



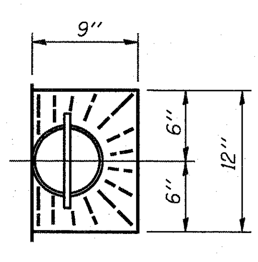
SECTION K-K



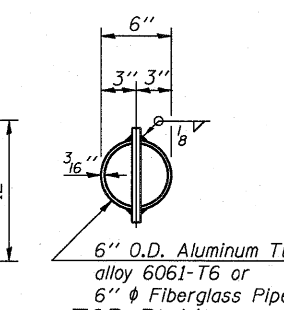
SECTION L-L



DETAIL 4

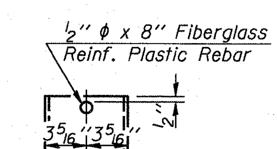


TOP PLAN

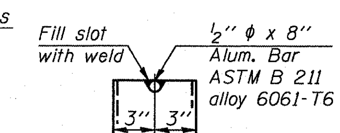


TOP PLAN

(Showing Aluminum Tube)



FIBERGLASS PIPE



ALUMINUM TUBE

Notes:

1. Work this sheet with sheets S9 thru S11 and S13.
2. For location of parapets, Section K-K and L-L and Details 1 and 4 see sheets S9 and S10.
3. For Section A-A see sheet S11.
4. For details on Light Pole Mounted on Concrete Parapet Wall, see BE-329
5. Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
6. The exterior surface of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
7. Bars indicated thus 2 x 3-#5 etc. indicates 2 lines of bars with 3 lengths per line.

P:\Projects\10000\10273\CADICADD Sheets\Structural\0490088-012-SuperDetails2.dgn 2:24:10 PM 8/9/2011

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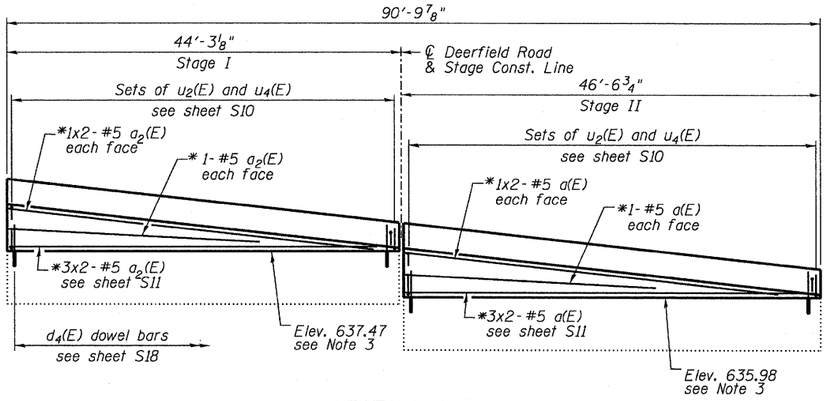
PLOT DATE = 8/9/2011	CHECKED PC	REVISED -	TEL 312 454 9100 FAX 312 559 1217 WEB www.epsteinglobal.com	
	DATE 08 09 2011	REVISED -		

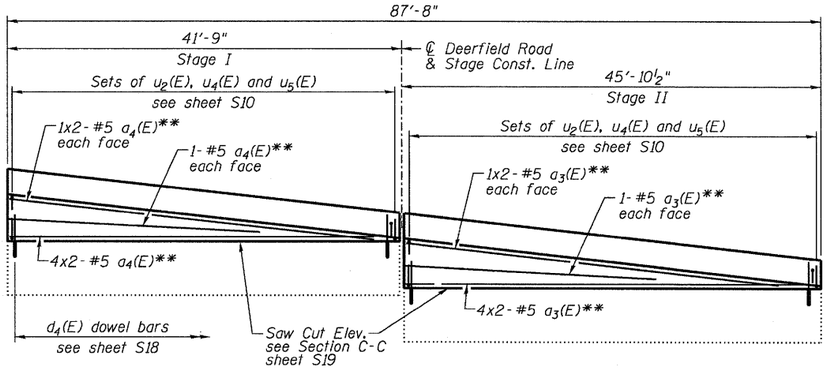
SUPERSTRUCTURE DETAILS 2
STRUCTURE NO. 049-0088
SHEET NO. S12 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	31
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		



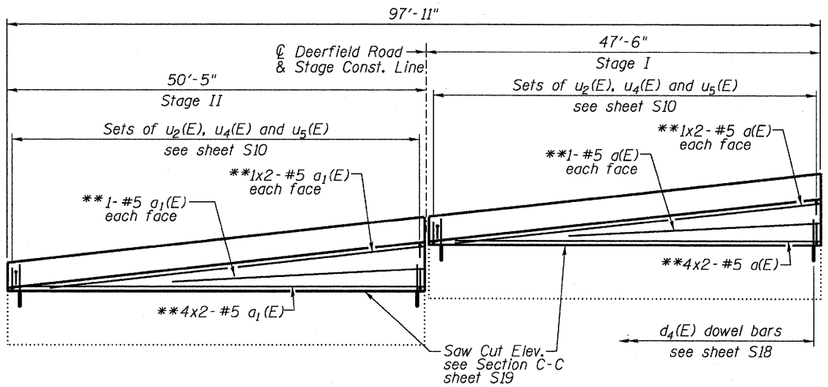
SECTION E-E

(Length measured along West Face of Pier)



SECTION F-F

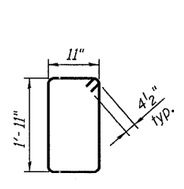
(Length measured along front face of Abutment)



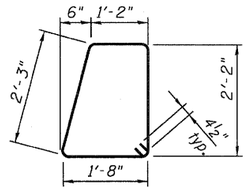
SECTION G-G

(Length measured along front face of Abutment)

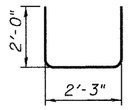
* see Section C-C sheet S11



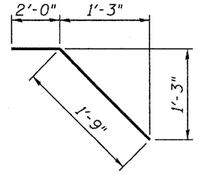
BAR u(E)



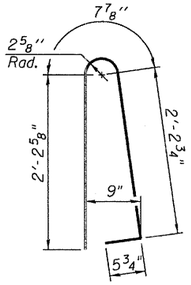
BAR u1(E)



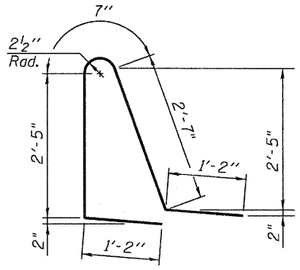
BARS u2(E)



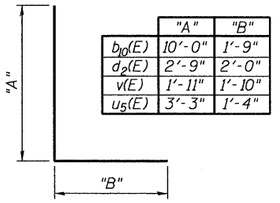
BAR u4(E)



BAR d(E)

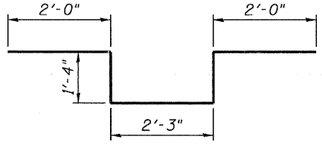


BAR d1(E)

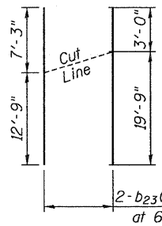


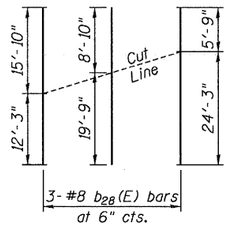
	"A"	"B"
$b_{10}(E)$	10'-0"	1'-9"
$d_2(E)$	2'-9"	2'-0"
$v(E)$	1'-11"	1'-10"
$u_5(E)$	3'-3"	1'-4"

BARS b10(E), d2(E), v(E) AND u5(E)



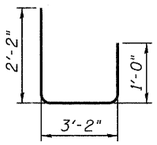
BAR d3(E)





FIELD CUTTING DIAGRAM

Order $b_{23}(E)$ and $b_{28}(E)$ bars full length.
Cut as shown and place at 6" cts.



BARS u3(E)

MINIMUM BAR LAP

#5 bar = 2'-10"

** see Section D-D sheet S11

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	326	#5	25' - 3"	
$a_1(E)$	298	#5	26' - 9"	
$a_2(E)$	12	#5	23' - 7"	
$a_3(E)$	14	#5	24' - 5"	
$a_4(E)$	14	#5	22' - 4"	
b(E)	88	#9	36' - 6"	
$b_1(E)$	43	#9	12' - 3"	
$b_2(E)$	126	#9	27' - 9"	
$b_3(E)$	7	#9	31' - 2"	
$b_5(E)$	3	#9	7' - 3"	
$b_{10}(E)$	169	#9	11' - 9"	L
$b_{11}(E)$	84	#9	25' - 0"	
$b_{20}(E)$	3	#8	13' - 0"	
$b_{21}(E)$	2	#8	4' - 7"	
$b_{23}(E)$	2	#8	22' - 9"	
$b_{28}(E)$	3	#8	30' - 0"	
$b_{30}(E)$	8	#9	12' - 0"	
$b_{31}(E)$	8	#8	12' - 0"	
$b_{35}(E)$	168	#8	29' - 10"	
$b_{36}(E)$	166	#8	37' - 10"	
$b_{40}(E)$	24	#10	31' - 2"	
$b_{41}(E)$	12	#10	30' - 9"	
$b_{42}(E)$	12	#10	29' - 3"	
$b_{43}(E)$	12	#9	29' - 8"	
$b_{44}(E)$	12	#9	28' - 1"	
$b_{45}(E)$	24	#10	29' - 9"	
d(E)	163	#5	5' - 7"	
$d_1(E)$	163	#5	7' - 11"	
$d_2(E)$	3	#6	4' - 9"	
$d_3(E)$	5	#6	8' - 11"	
e(E)	28	#4	18' - 6"	
$e_1(E)$	14	#4	17' - 10"	
$e_2(E)$	7	#4	14' - 3"	
$e_3(E)$	7	#4	19' - 9"	
$e_4(E)$	3	#8	28' - 8"	
$e_5(E)$	3	#8	27' - 2"	
$e_6(E)$	3	#4	26' - 6"	
$e_7(E)$	3	#4	25' - 0"	
v(E)	175	#5	3' - 9"	L
u(E)	163	#4	6' - 5"	
$u_1(E)$	148	#4	8' - 0"	
$u_2(E)$	184	#4	6' - 3"	
$u_3(E)$	189	#4	6' - 4"	
$u_4(E)$	373	#4	3' - 9"	
$u_5(E)$	189	#4	4' - 7"	
Floor Drain		Each	4	
Concrete Superstructure		Cu. Yd.	409	
Bridge Deck Grooving		Sq. Yd.	591	
Protective Coat		Sq. Yd.	716	
Reinforcement Bars, Epoxy Coated		Pound	109,020	

Notes:

1. Work this sheet with sheets S9 thru S12.
2. For location of Sections E-E thru G-G see sheets S9 and S10.
3. Elevations are taken from the existing plans and shown for information only. The Contractor shall verify in field before beginning construction.

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	DRAWN EV	REVISED -	
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PLOT DATE = 6/23/2011	DATE 06 24 2011	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS 3
STRUCTURE NO. 049-0088
SHEET NO. S13 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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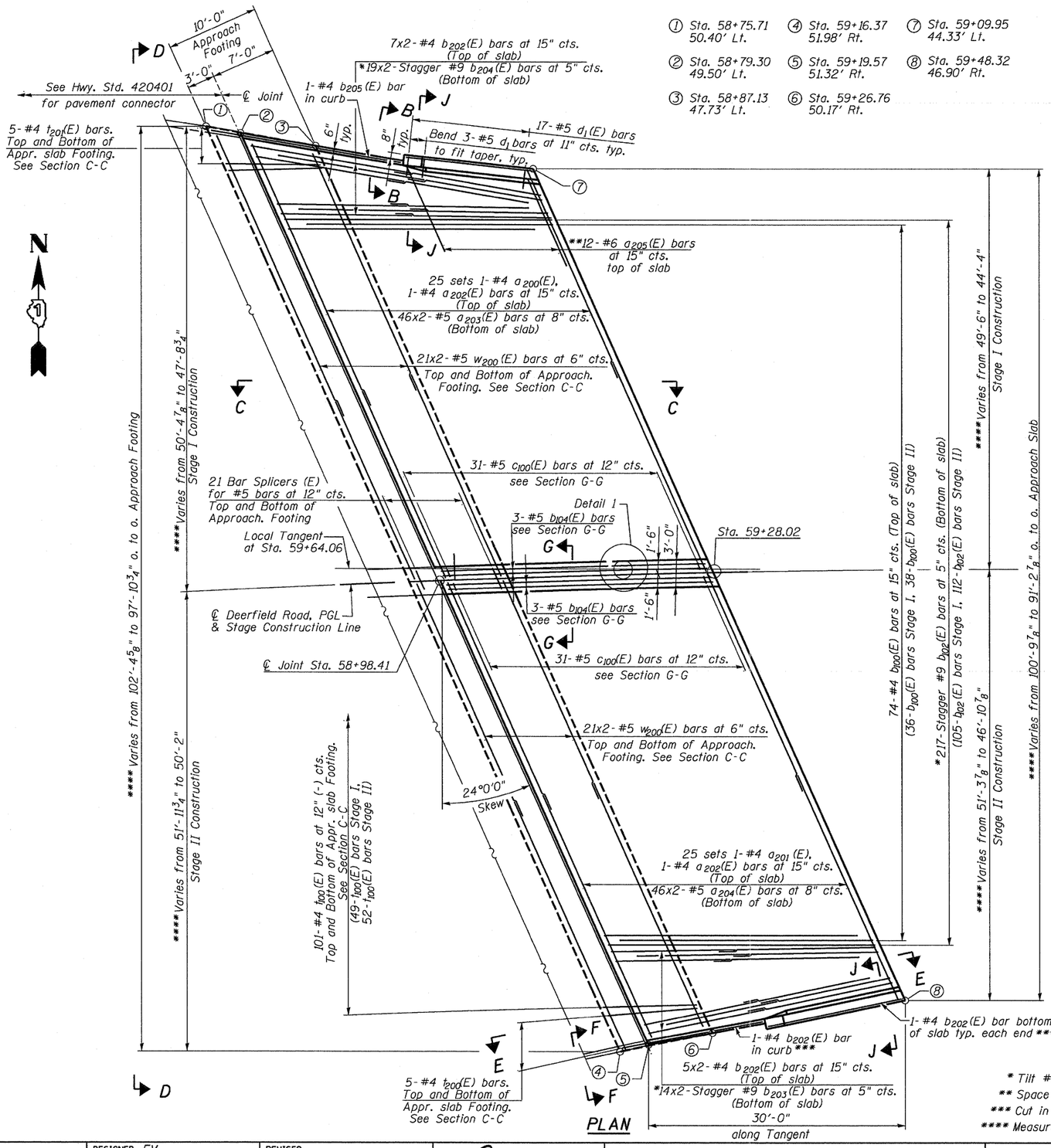
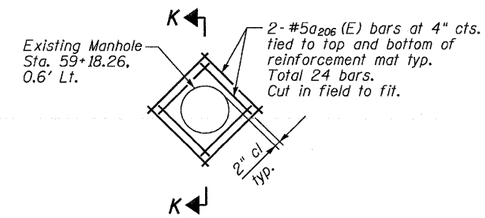
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

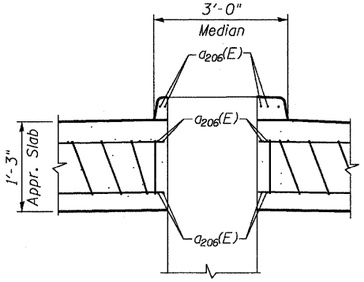


① Sta. 58+75.71 50.40' Lt.
② Sta. 58+79.30 49.50' Lt.
③ Sta. 58+87.13 47.73' Lt.
④ Sta. 59+16.37 51.98' Rt.
⑤ Sta. 59+19.57 51.32' Rt.
⑥ Sta. 59+26.76 50.17' Rt.
⑦ Sta. 59+09.95 44.33' Lt.
⑧ Sta. 59+48.32 46.90' Rt.



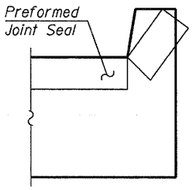
DETAIL 1

Proposed Median to be modified to accommodate existing Manhole



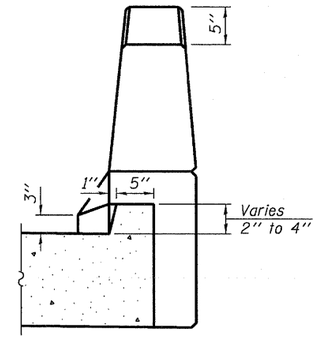
SECTION K-K

Cut longitudinal reinforcement, adjust standard median and slab reinforcement to clear Manhole



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

MINIMUM BAR LAP

#4 bar = 1'-10"
#5 bar = 2'-0"
#9 bar = 5'-3"

Notes:

1. See sheet S15 for Sections C-C, D-D, G-G and View E-E.
2. See sheet S16 for Section J-J, Detail A and Preformed Joint Seal.
3. a_{200}(E) thru a_{202}(E) and a_{205}(E) bars spacings measured along Local Tangent.
4. Bars indicated thus 2 x 3-#5 etc. indicates 2 lines of bars with 3 lengths per line.
5. For Bar Splicer details see sheet S21.

* Tilt #9 b_{102}(E), b_{203}(E) and b_{204}(E) bars as required to maintain clearance.
** Space between a_{200}(E), typ. each parapet.
*** Cut in field
**** Measured perpendicular to the ℄ Deerfield Road.

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	DATE 06 24 2011	REVISED -	

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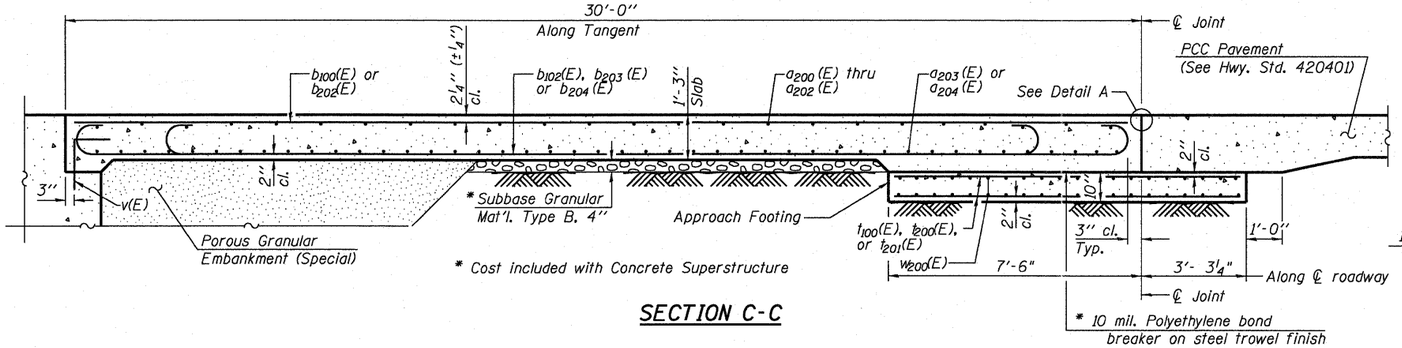
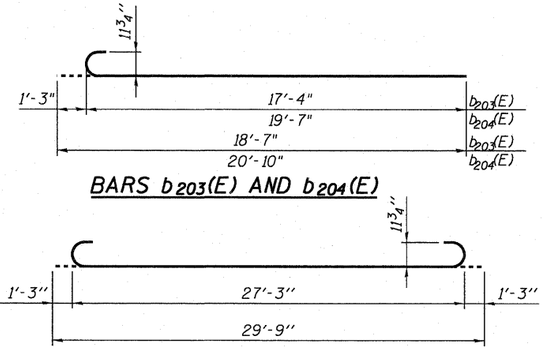
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH SLAB
STRUCTURE NO. 049-0088
SHEET NO. S14 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	33
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

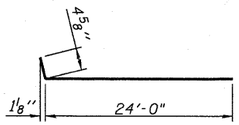


SECTION C-C

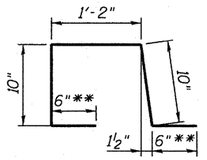


BARS b_{203}(E) AND b_{204}(E)

BAR b_{102}(E)



BAR a_{202}(E)

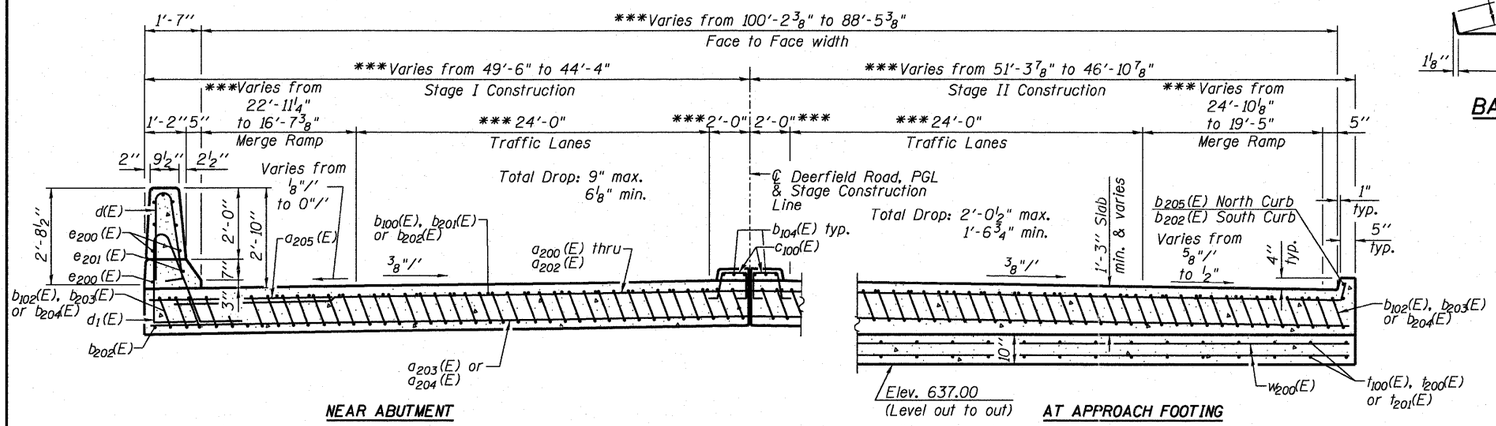


BAR c_{100}(E)

** In lieu of bottom leg, c(E) bars may be cored and set according to Article 509.06 of Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of cored hole shall not exceed 6".

WEST APPROACH SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_{200} (E)	25	#4	28' - 8"	
a_{201} (E)	25	#4	30' - 3"	
a_{202} (E)	50	#4	24' - 5"	
a_{203} (E)	92	#5	26' - 8"	
a_{204} (E)	92	#5	27' - 6"	
a_{205} (E)	24	#6	6' - 6"	
a_{206} (E)	24	#5	4' - 6"	
b_{100} (E)	74	#4	29' - 8"	
b_{102} (E)	217	#9	29' - 9"	
b_{104} (E)	6	#5	29' - 8"	
b_{202} (E)	27	#4	17' - 5"	
b_{203} (E)	28	#9	18' - 7"	
b_{204} (E)	38	#9	20' - 10"	
b_{205} (E)	1	#4	17' - 9"	
c_{100} (E)	62	#5	3' - 10"	
d(E)	34	#5	5' - 7"	
d_1(E)	34	#5	7' - 11"	
e_{200} (E)	16	#4	15' - 1"	
e_{201} (E)	2	#8	15' - 1"	
t_{100} (E)	202	#4	10' - 6"	
t_{200} (E)	10	#4	9' - 7"	
t_{201} (E)	10	#4	11' - 0"	
w_{200} (E)	168	#5	27' - 0"	
Concrete Structures		Cu. Yd.	34	
Concrete Superstructure		Cu. Yd.	137	
Bridge Deck Grooving		Sq. Yd.	285	
Protective Coat		Sq. Yd.	328	
Reinforcement Bars, Epoxy Coated		Pound	42,990	

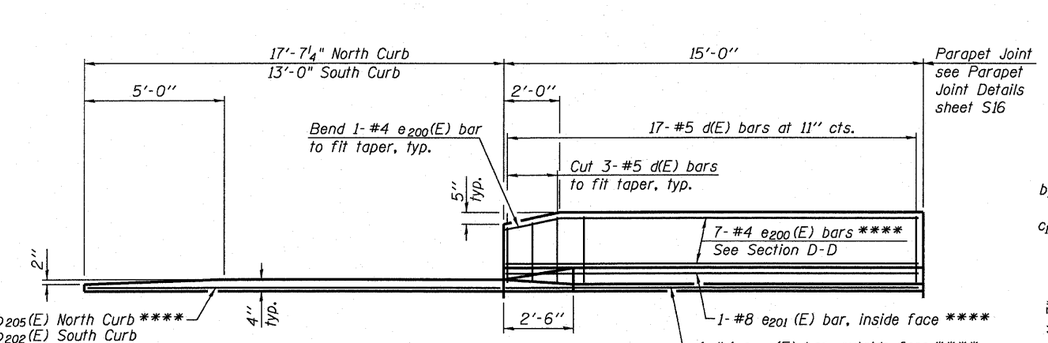


NEAR ABUTMENT — AT APPROACH FOOTING

SECTION D-D

(See Plan for dimensions not shown)

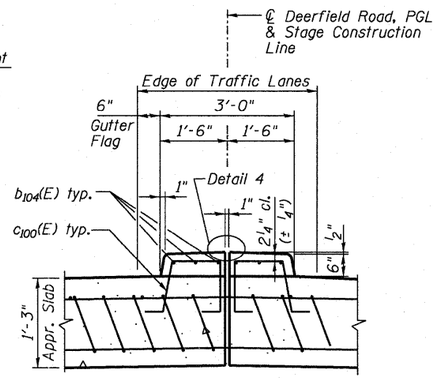
*** Measured perpendicular to the ℄ Deerfield Road



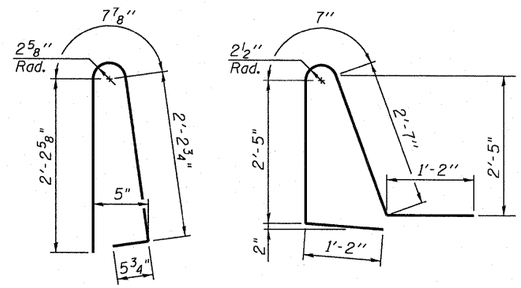
VIEW E-E

Horizontal dimensions measured along Inside Face of Parapet and Curb

**** Cut in field



SECTION G-G



BAR d(E)

BAR d_1(E)

Notes:

1. For Detail A see sheet S16.
2. For location of Sections C-C, D-D, G-G and view E-E see sheet S14.
3. Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
4. Approach footing concrete shall be paid for as Concrete Structures.
5. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
6. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
7. Cost of excavation for approach footing included with Concrete Structures.
8. For Porous Granular Embankment (Special) and drainage treatment details, see sheet S18.
9. For v(E) bar details see sheet S9.
10. For Detail 4 see sheet S11.

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8/9/2011

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	DATE 08 09 2011	REVISED -	

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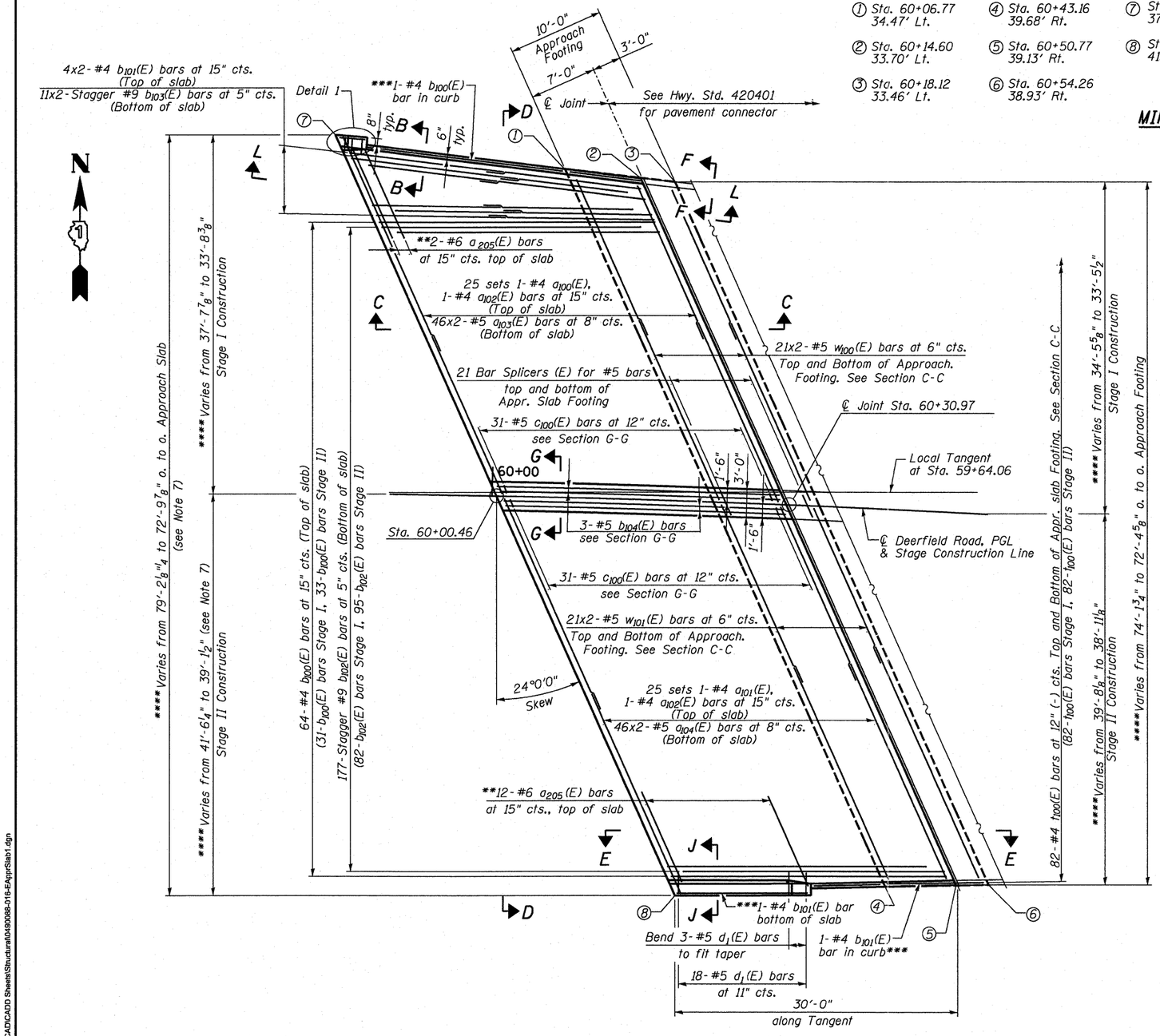
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 049-0088
SHEET NO. S15 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	34
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			



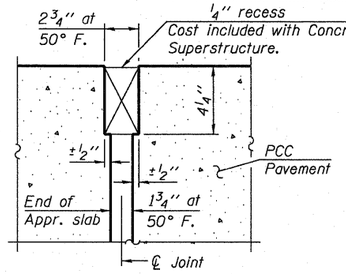
PLAN

* Tilt #9 b_{102}(E) and b_{103}(E) bars as required to maintain clearance.
** Splice between a_{102}(E) bars, typ. each parapet
*** Cut in field
**** Measured perpendicular to the ℄ Deerfield Road.

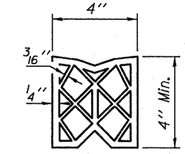
① Sta. 60+06.77 34.47' Lt.
② Sta. 60+14.60 33.70' Lt.
③ Sta. 60+18.12 33.46' Lt.
④ Sta. 60+43.16 39.68' Rt.
⑤ Sta. 60+50.77 39.13' Rt.
⑥ Sta. 60+54.26 38.93' Rt.
⑦ Sta. 59+83.13 37.66' Lt.
⑧ Sta. 60+20.61 41.52' Rt.

MINIMUM BAR LAP

#4 bar = 1'-10"
#5 bar = 2'-0"
#9 bar = 5'-3"

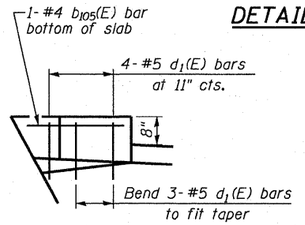


RIGID PAVEMENT

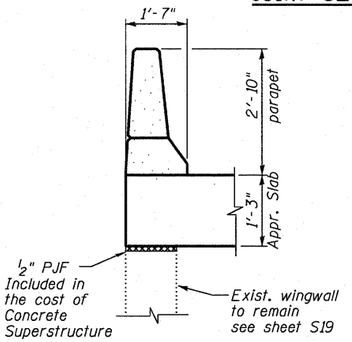


PREFORMED JOINT SEAL

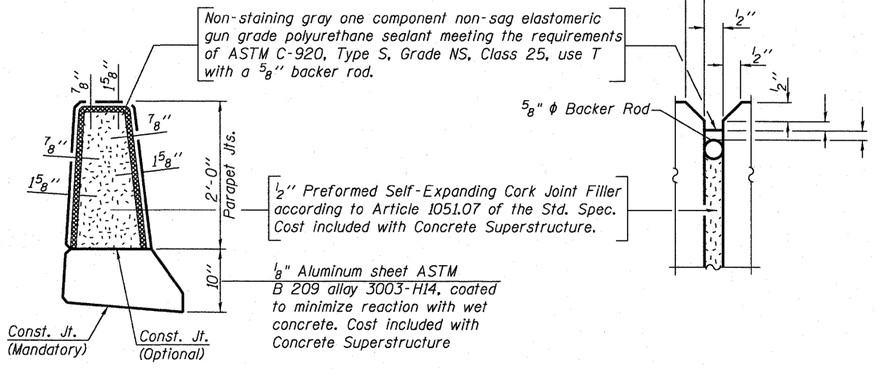
DETAIL A



DETAIL 1



SECTION J-J



PARAPET JOINT DETAILS
see sheets S15 and S17 for location

Notes:

1. See sheet S17 for Sections C-C, D-D and Views E-E and L-L.
2. See sheet S14 for Views B-B and F-F.
3. a_{100}(E) thru a_{102}(E) bar spacings measured along Local Tangent.
4. Bars indicated thus 2 x 3-#5 etc. indicates 2 lines of bars with 3 lengths per line.
5. For Section G-G see sheet S15.
6. For Bar Splicer details see sheet S21.

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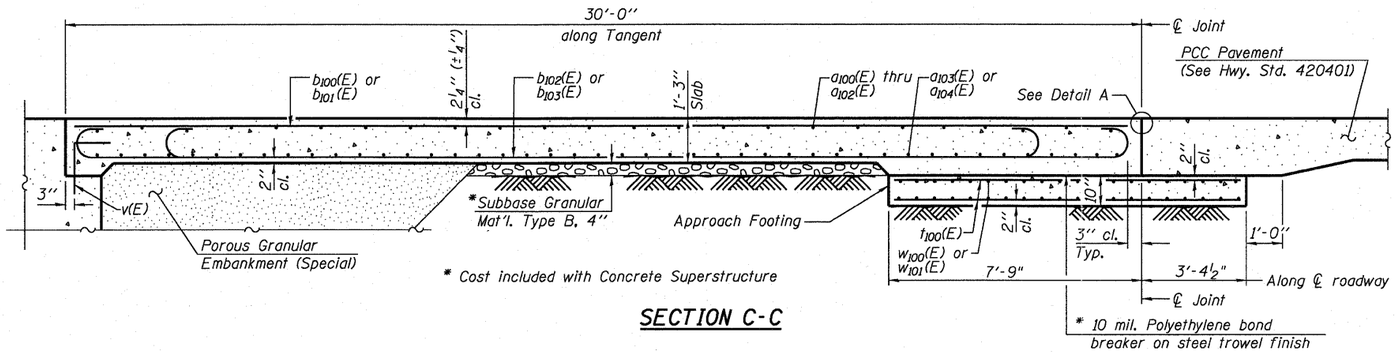
DEPARTMENT OF TRANSPORTATION

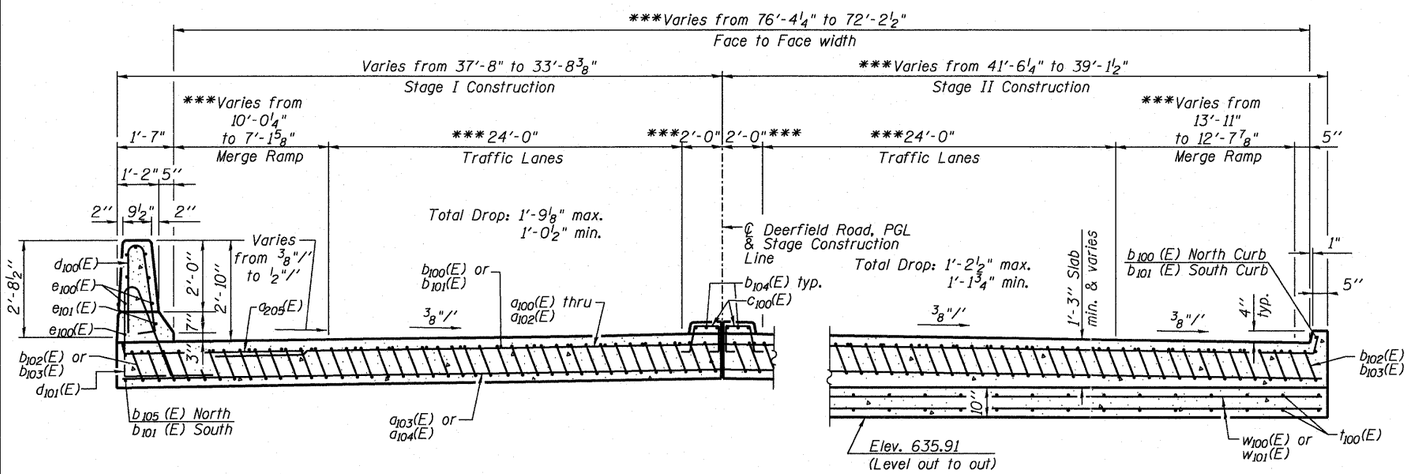
EAST BRIDGE APPROACH SLAB
STRUCTURE NO. 049-0088
SHEET NO. S16 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	35
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			



* Cost included with Concrete Superstructure

SECTION C-C

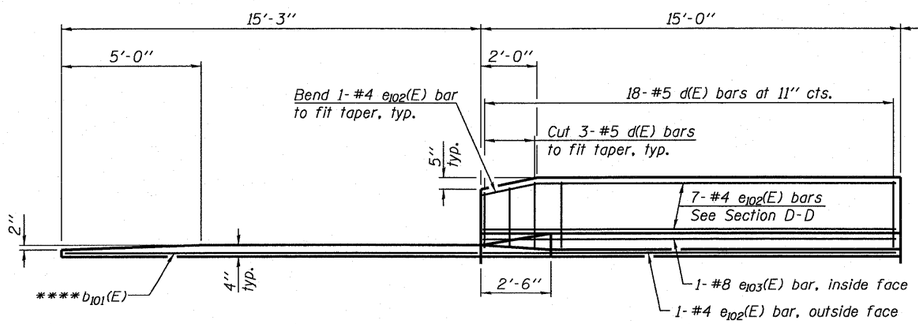


NEAR ABUTMENT — AT APPROACH FOOTING

SECTION D-D

(See Plan for dimensions not shown)

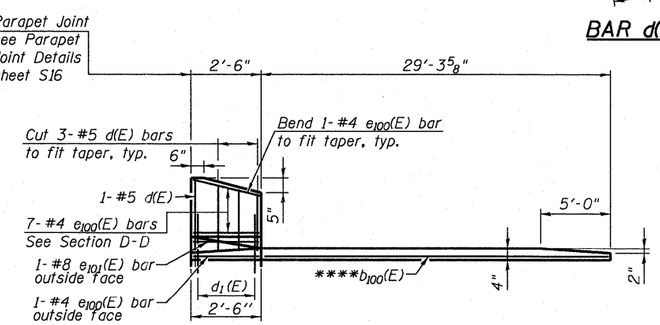
*** Measured perpendicular to the ℄ Deerfield Road



VIEW E-E

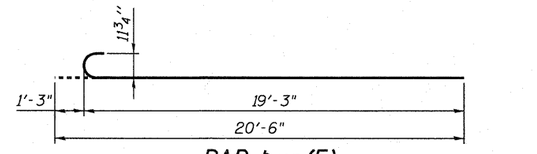
Horizontal dimensions measured along Inside Face of Parapet and Curb

**** Cut in field

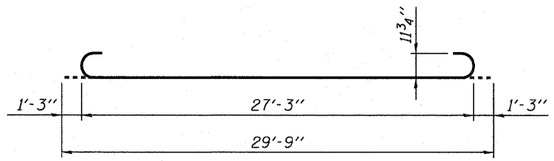


VIEW L-L

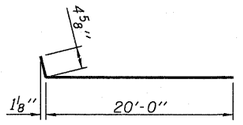
Horizontal dimensions measured along Inside Face of Parapet and Curb



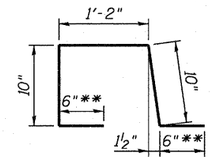
BAR b_{103} (E)



BAR b_{102}(E)

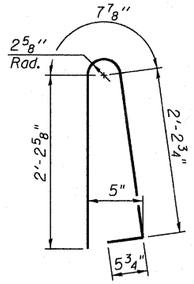


BAR a_{102}(E)

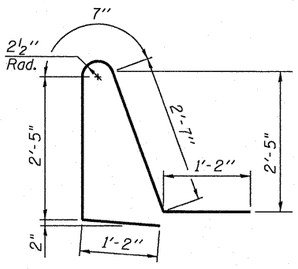


BAR c_{100}(E)

** In lieu of bottom leg, c(E) bars may be cored and set according to Article 509.06 of Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of cored hole shall not exceed 6".



BAR d(E)



BAR d_1(E)

EAST APPROACH SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_{100}(E)	25	#4	22' - 2"	
a_{101}(E)	25	#4	26' - 8"	
a_{102}(E)	50	#4	20' - 5"	
a_{103}(E)	92	#5	21' - 7"	
a_{104}(E)	92	#5	23' - 10"	
c_{205}(E)	14	#6	6' - 6"	
b_{100}(E)	65	#4	29' - 8"	
b_{101}(E)	10	#4	17' - 1"	
b_{102}(E)	177	#9	29' - 9"	
b_{103}(E)	22	#9	20' - 6"	
b_{104}(E)	6	#5	29' - 8"	
b_{105}(E)	1	#4	2' - 2"	
c_{100}(E)	62	#5	3' - 10"	
d(E)	22	#5	5' - 7"	
d_1(E)	22	#5	7' - 11"	
e_{100}(E)	8	#4	2' - 3"	
e_{101}(E)	1	#8	2' - 3"	
e_{102}(E)	8	#4	14' - 9"	
e_{103}(E)	1	#8	14' - 9"	
t_{100}(E)	164	#4	10' - 9"	
w_{100}(E)	84	#5	21' - 1"	
w_{101}(E)	84	#5	23' - 3"	

Concrete Structures	Cu. Yd.	26
Concrete Superstructure	Cu. Yd.	114
Bridge Deck Grooving	Sq. Yd.	228
Protective Coat	Sq. Yd.	267
Reinforcement Bars, Epoxy Coated	Pound	32,780

Notes:

1. For Detail A see sheet S16.
2. For location of Sections C-C, D-D and views E-E and L-L see sheet S16.
3. Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
4. Approach footing concrete shall be paid for as Concrete Structures.
5. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
6. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
7. Cost of excavation for approach footing included with Concrete Structures.
8. For Porous Granular Embankment (Special) see sheet S18.
9. For v(E) bar details see sheet S9.

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STATE OF ILLINOIS
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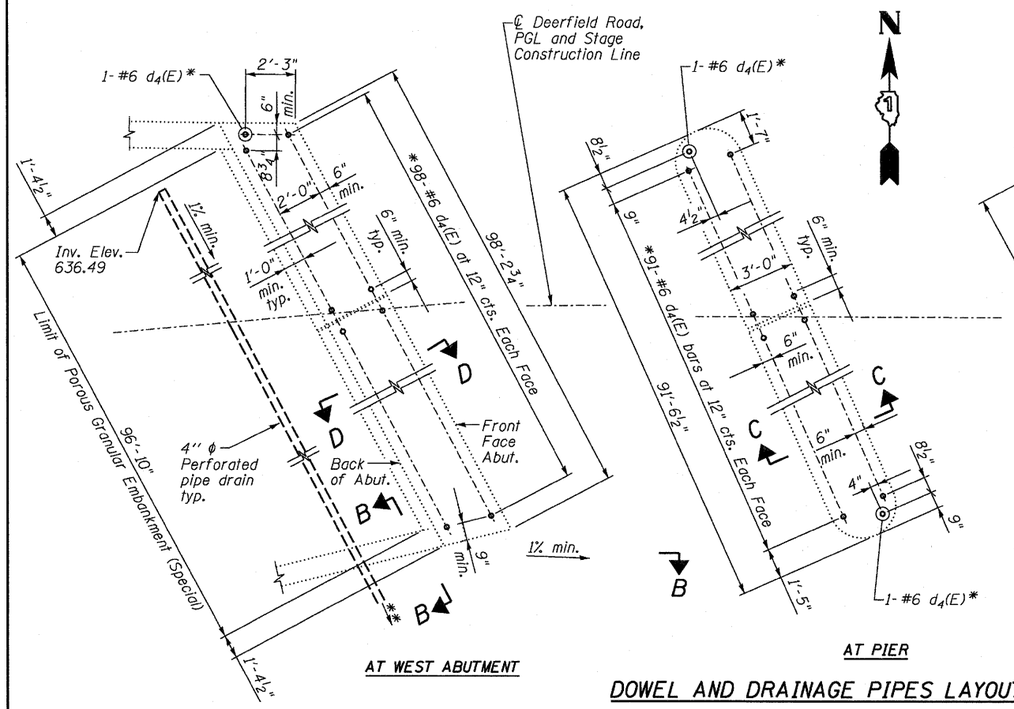
EAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 049-0088
SHEET NO. S17 OF S22 SHEETS

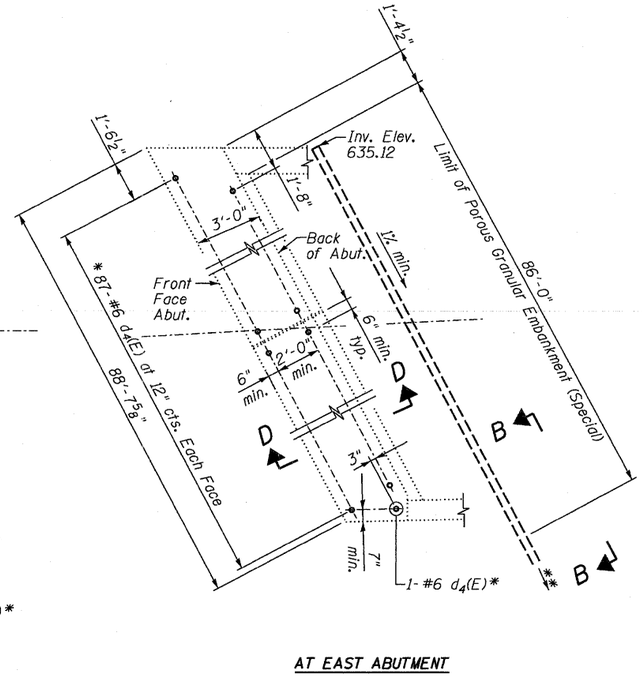
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	36
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		



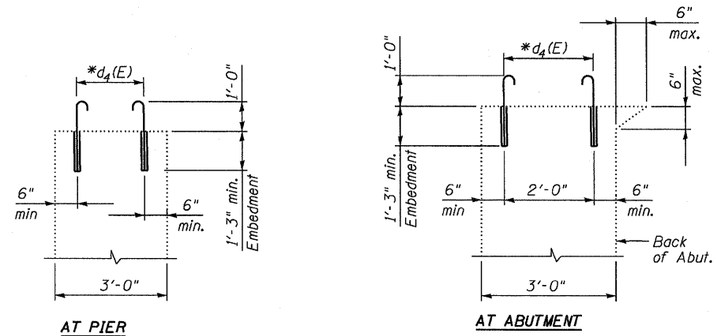
AT WEST ABUTMENT

AT PIER

DOWEL AND DRAINAGE PIPES LAYOUT



AT EAST ABUTMENT

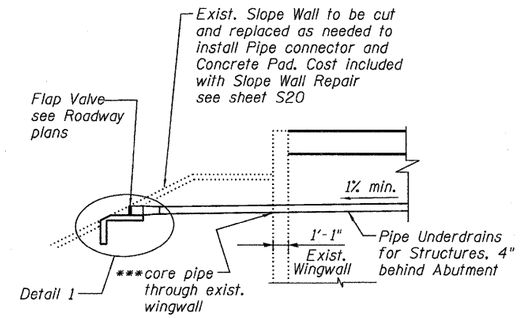


DOWEL DETAILS

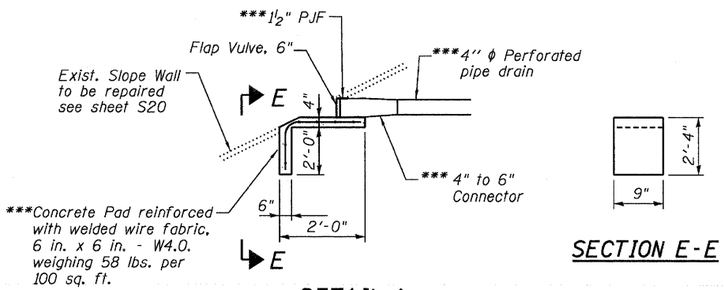
* Drill and Grout Dowel Bars shall comply with requirements of Section 584 of Standard Specification. Cost included with Reinforcement Bars, Epoxy Coated.

** Extend pipe parallel with the cap and through exist. wingwall untill intersection with the slope wall. Discharge to East Skokie Ditch

*** Cost included with "Pipe Underdrains for Structures, 4"

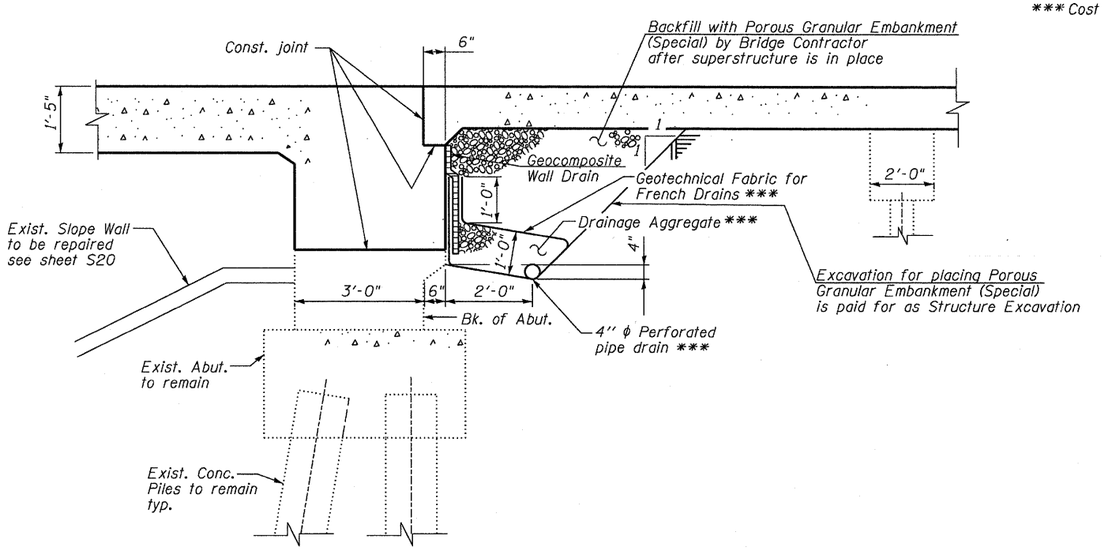


VIEW B-B



SECTION E-E

DETAIL 1

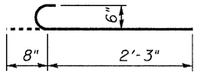


SECTION THRU ABUTMENT

Dimensions at right angle

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
*	$d_4(E)$	556	#6	2'-11"	⊂
	Porous Granular Embankment, Special			Cu. Yd.	78
	Structure Excavation			Cu. Yd.	98
	Reinforcement Bars, Epoxy Coated			Pound	2,440
	Geocomposite Wall Drain			Sq. Yd.	65
	Pipe Underdrains for Structures 4"			Foot	217



BAR $d_4(E)$

Notes:

1. For Sections C-C and D-D see sheet S11.
2. All dimensions related to existing structure are taken from the existing plans and shown for information only. The Contractor shall verify in field before beginning construction.

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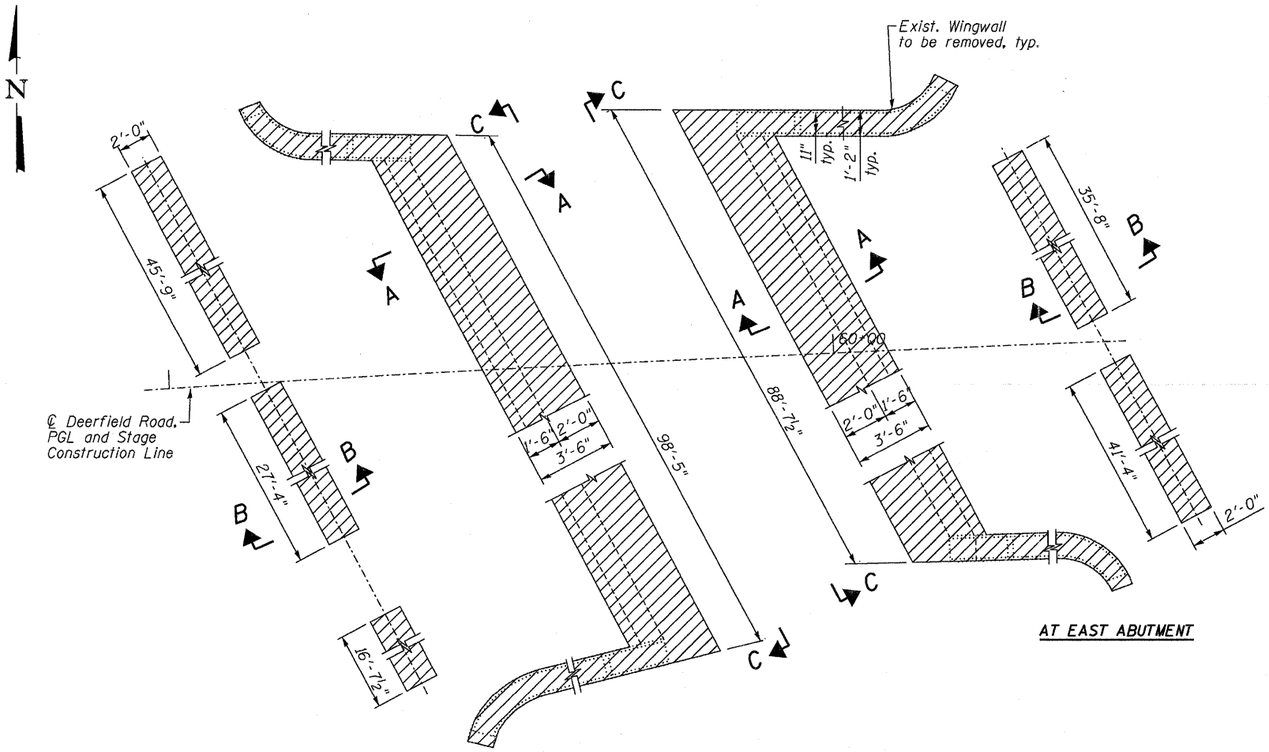
ABUTMENT AND PIER MODIFICATION DETAILS
STRUCTURE NO. 049-0088
SHEET NO. S18 OF S22 SHEETS

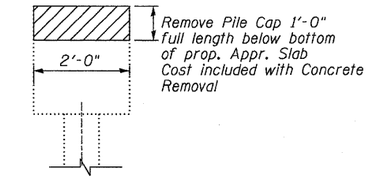
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	37
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			



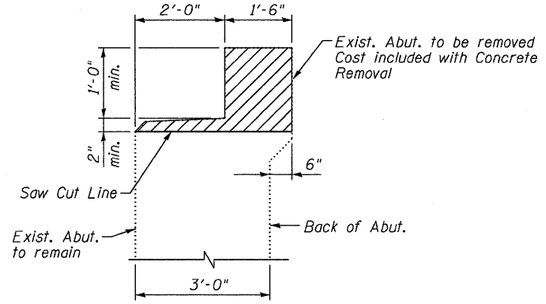
AT WEST ABUTMENT

AT EAST ABUTMENT

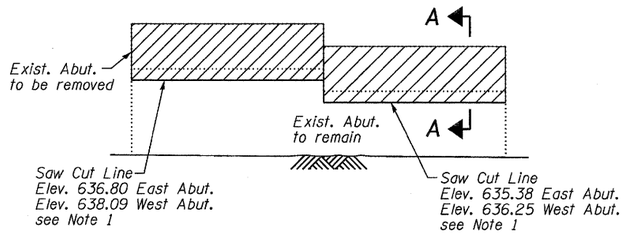
CONCRETE REMOVAL SKETCH



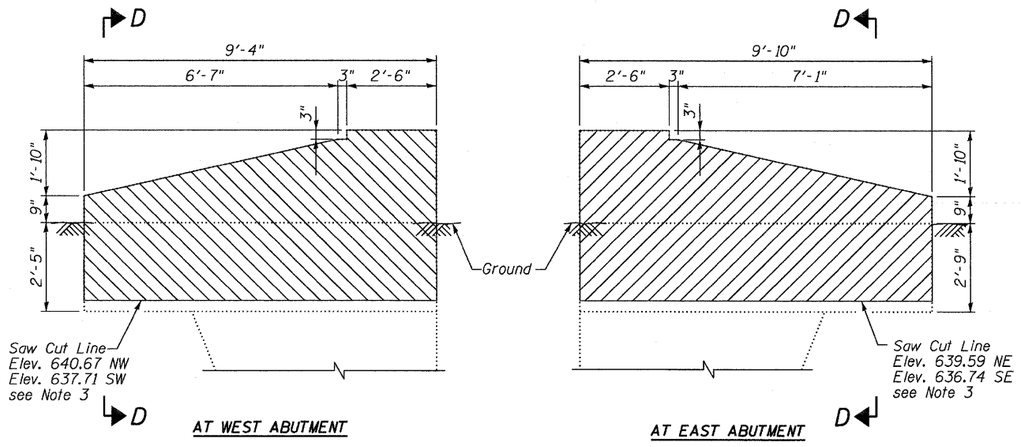
SECTION B-B



SECTION A-A



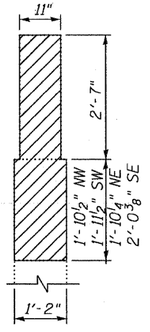
SECTION C-C



AT WEST ABUTMENT

AT EAST ABUTMENT

EXISTING WINGWALLS CONCRETE REMOVAL SKETCH



SECTION D-D

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	36

Notes:

1. All dimensions are taken from the existing plans and shown for information only. The Contractor shall verify in field before beginning construction.
2. The Contractor shall roughen existing surface of abutments and backwalls remove and dispose any loose and unsound concrete as directed by the Engineer. Cost included with Concrete Removal.
3. Saw Cut elevations shall match appropriate Bottom of Approach Slab elevations. Contractor to verify in field before beginning construction.

LEGEND

Concrete Removal

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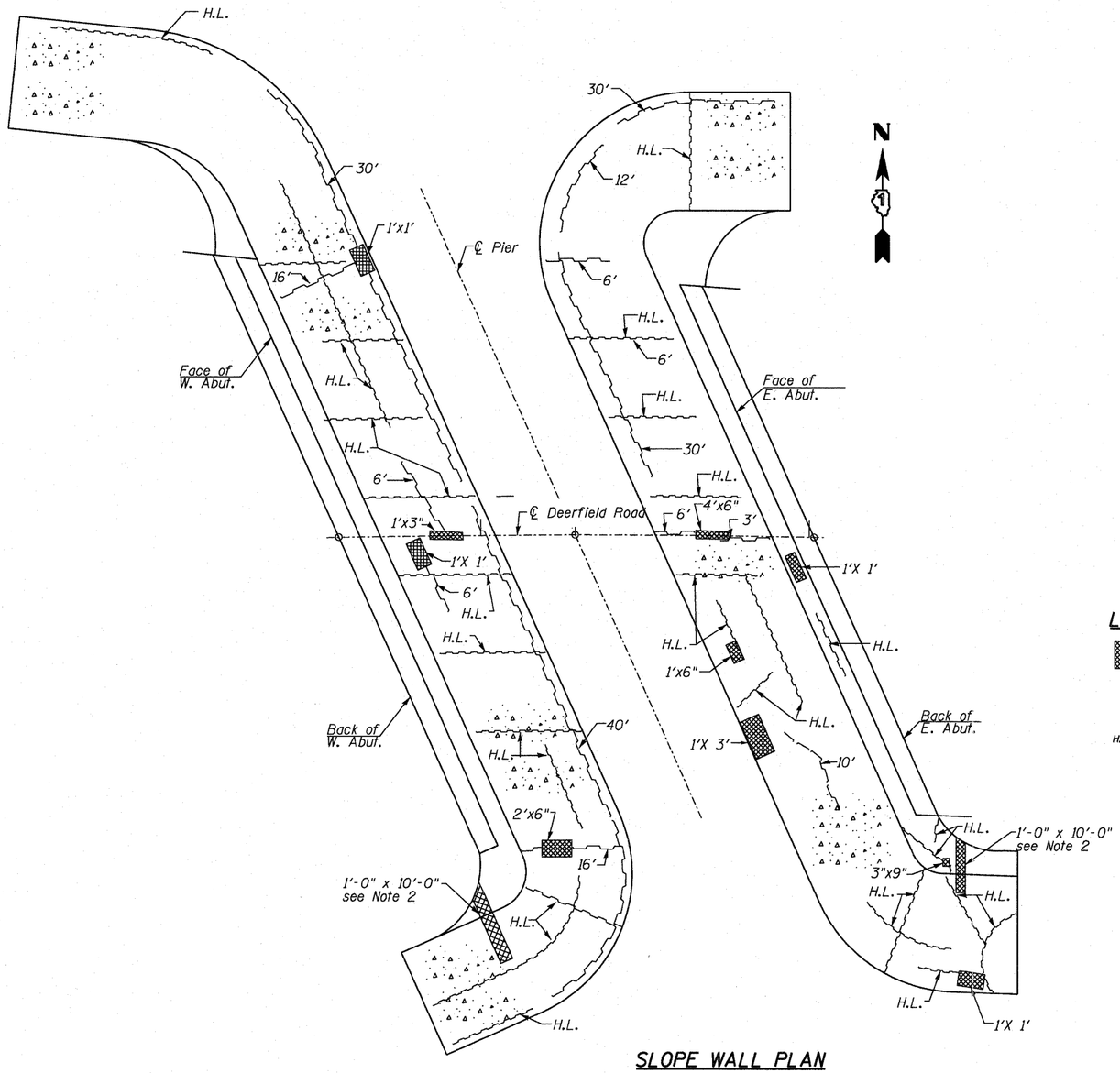
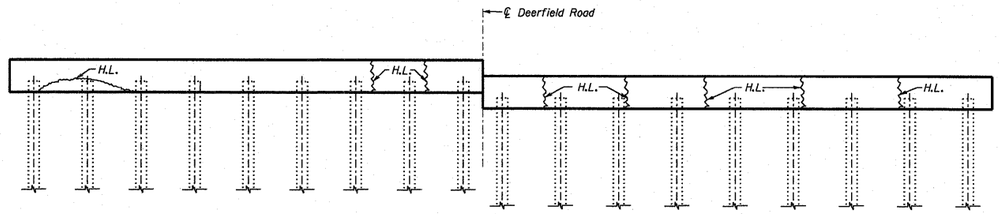
ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 049-0088
SHEET NO. S19 OF S22 SHEETS

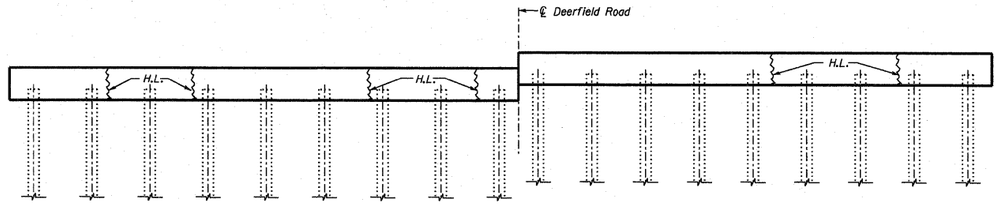
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	38
		CONTRACT NO. 62102		
		ILLINOIS FED. AID PROJECT		



SLOPE WALL PLAN



WEST ELEVATION OF PIER



EAST ELEVATION OF PIER

LEGEND

- Slope Wall Repair
- 5' — Slope Wall Crack Sealing
- H.L. — Hairline crack (not to be sealed)

BILL OF MATERIAL

	ITEMS	UNITS	QUANTITY
*	Slope Wall Repair	Sq. Yd.	62
	Slope Wall Crack Sealing	Foot	217

*Areas of the previous slope wall repairs show large cracks and the concrete is heaving and settling. All those areas should be repaired as required. Quantity of the pay item "Slope Wall Repair" includes those areas.

NOTES

1. The cracks and spall areas of the existing substructure shown on this plan are for general reference only. They have been taken from the Bridge Condition report and a limited field investigation and they are not guaranteed. The Contractor shall take all field measurements of the cracks and spall areas necessary to assure proper repair for the substructure and shall assure full responsibility for the repair work.

2. Existing Slope Wall to be cut and replaced as shown to install Pipe connector and Concrete Pad. See Detail 1 sheet S18.

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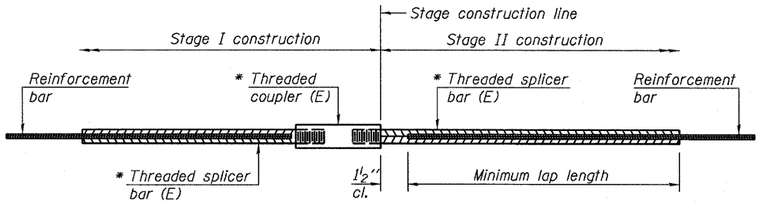
SUBSTRUCTURE REPAIR DETAILS
STRUCTURE NO. 049-0088
SHEET NO. S20 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	39
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			



STANDARD BAR SPLICER ASSEMBLY

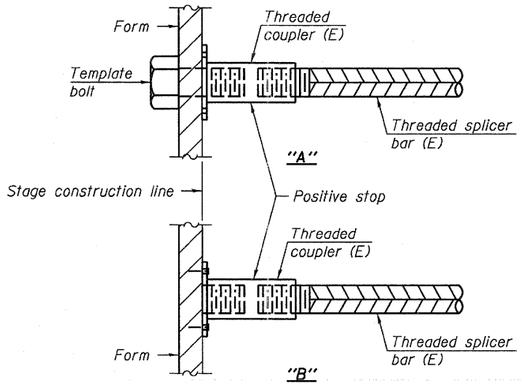
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1½" + thread length

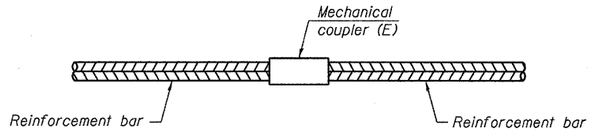
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
West Approach Slab	#5	42	3
East Approach Slab	#5	42	3



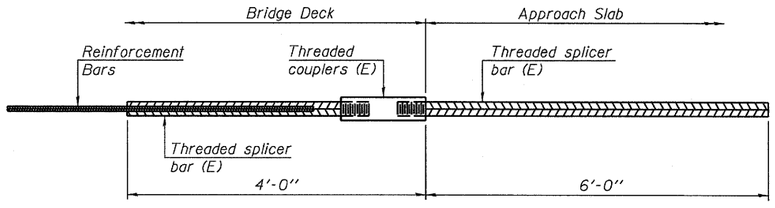
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



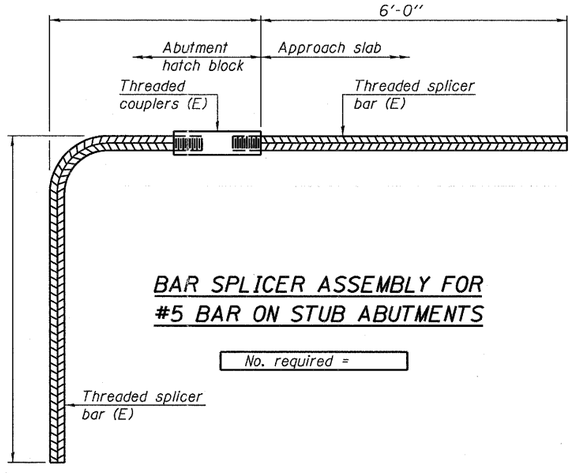
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

Notes:

1. Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
2. All reinforcement shall be lapped and tied to the splicer bars.
3. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
4. See special provision for Mechanical Splicers.
5. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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	DATE 06 24 2011	REVISED -	

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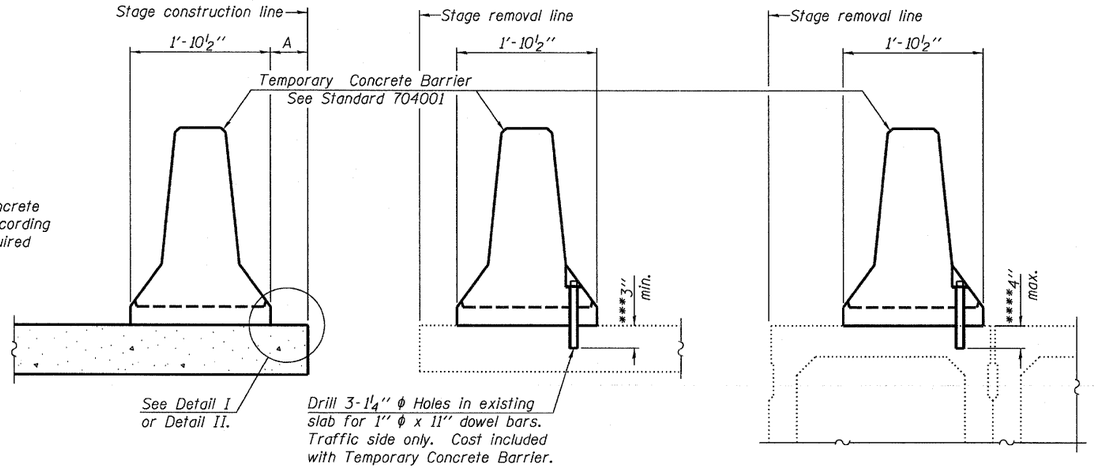
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 049-0088
SHEET NO. S21 OF S22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	40
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

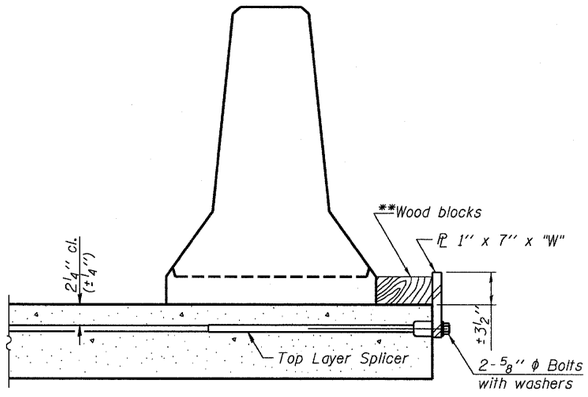
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x 10" steel PL to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.

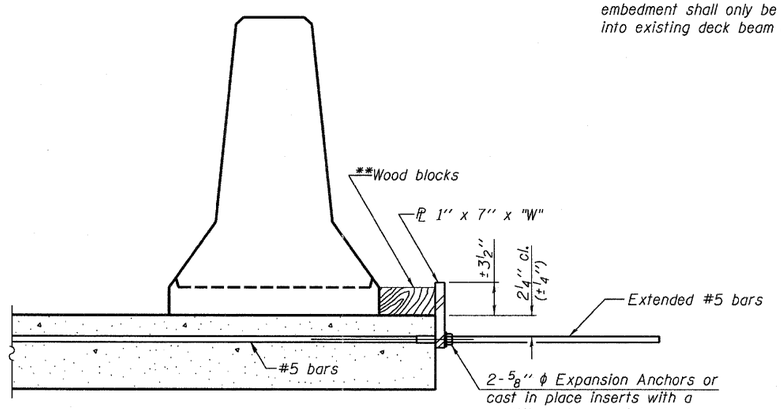
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



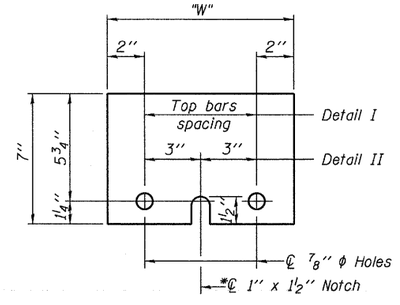
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER PL 1" x 7" x 10"

* Required only with Detail II

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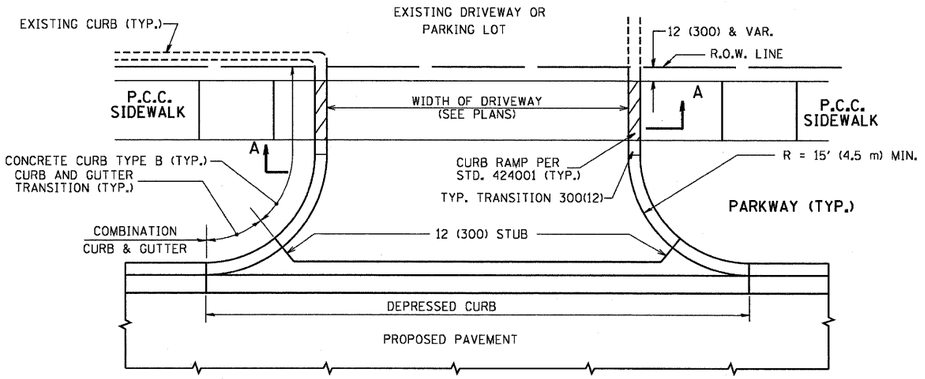
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

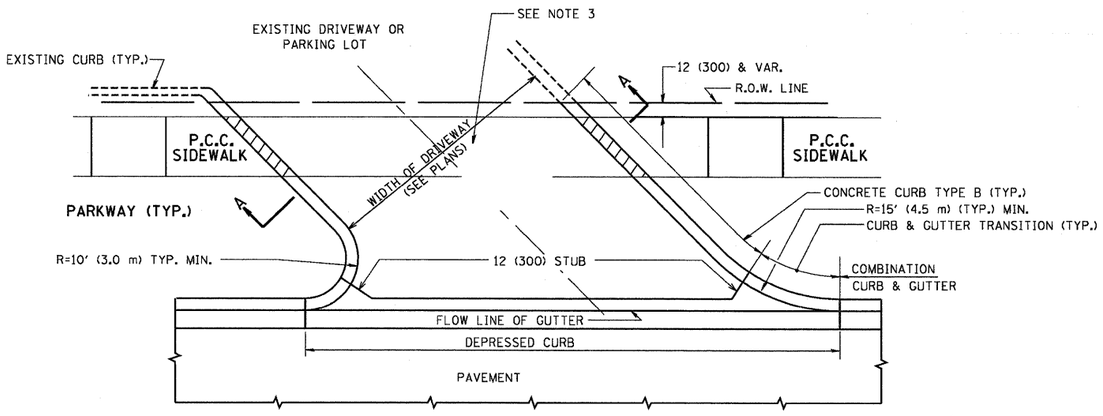
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 049-0088
SHEET NO. S22 OF S22 SHEETS

F.A.I.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	41
		CONTRACT NO. 62102		
	ILLINOIS FED. AID PROJECT			

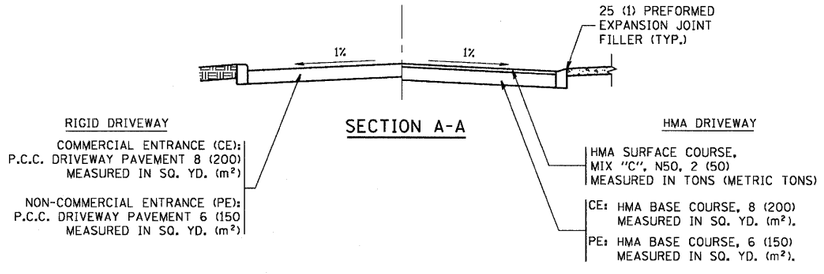
R-27 7-1-10

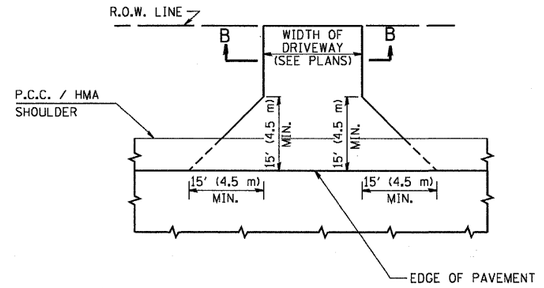


WITH CONCRETE CURB, TYPE B

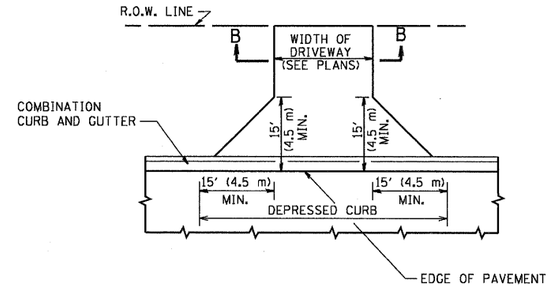


WITH CONCRETE CURB, TYPE B

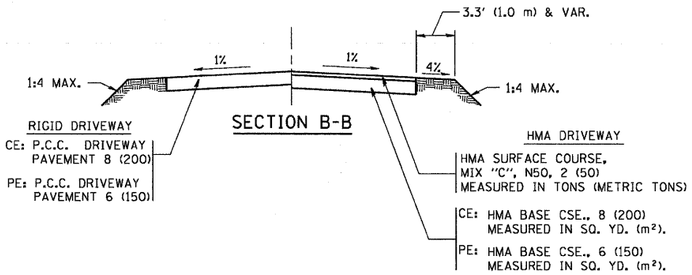




ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

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		DRAWN -	REVISED - P. LaFLUER 04-15-03
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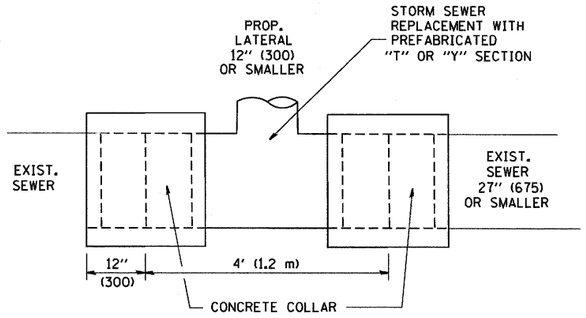
	PLOT DATE = 6/12/2008	DATE - 11-04-95	REVISED - R. BORO 06-11-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

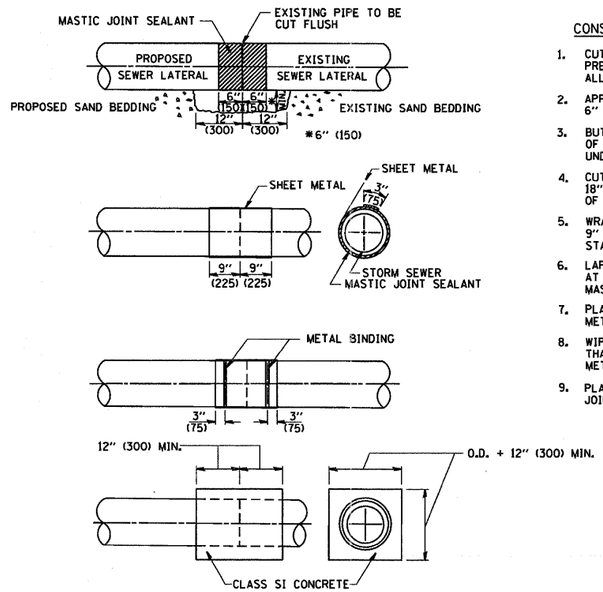
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	42
	BD0156-07 (BD-01)	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

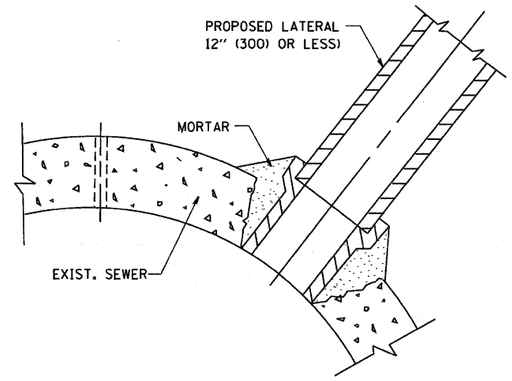


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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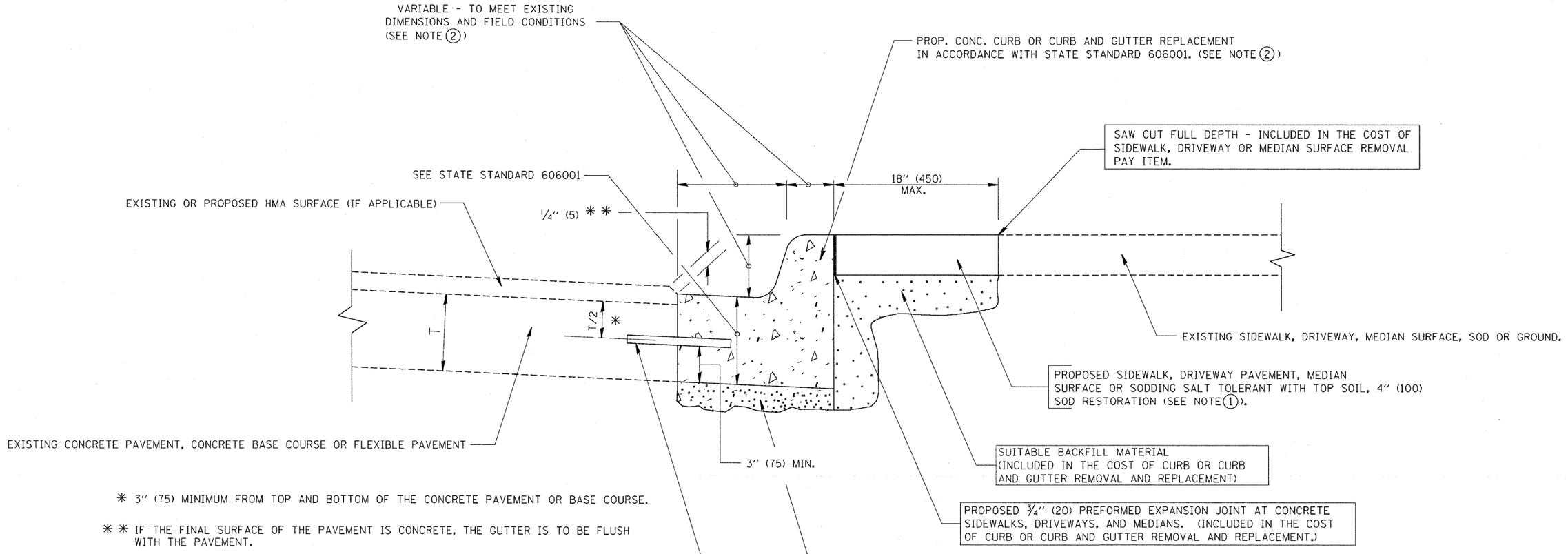
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	43
	BD500-01 (BD-7)	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

* * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

(2) FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

(3) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

(4) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

(5) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(6) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

(7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

(8) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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		DRAWN -	REVISED - A. ABBAS 03-21-97
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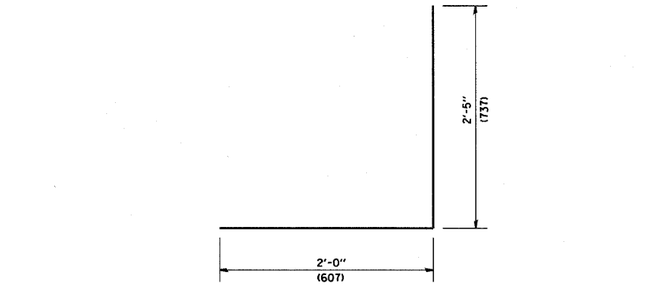
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

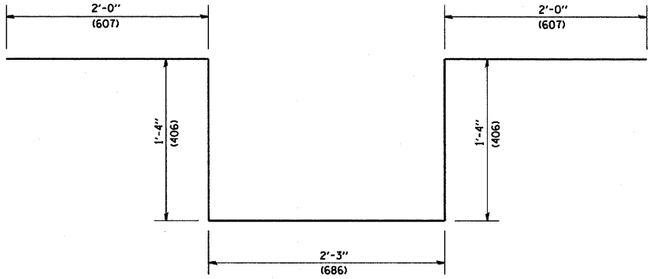
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	44
	BD600-06 (BD-24)	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



BAR d (E)



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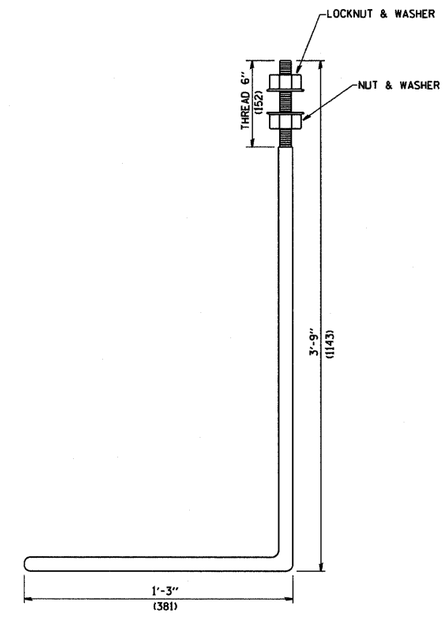
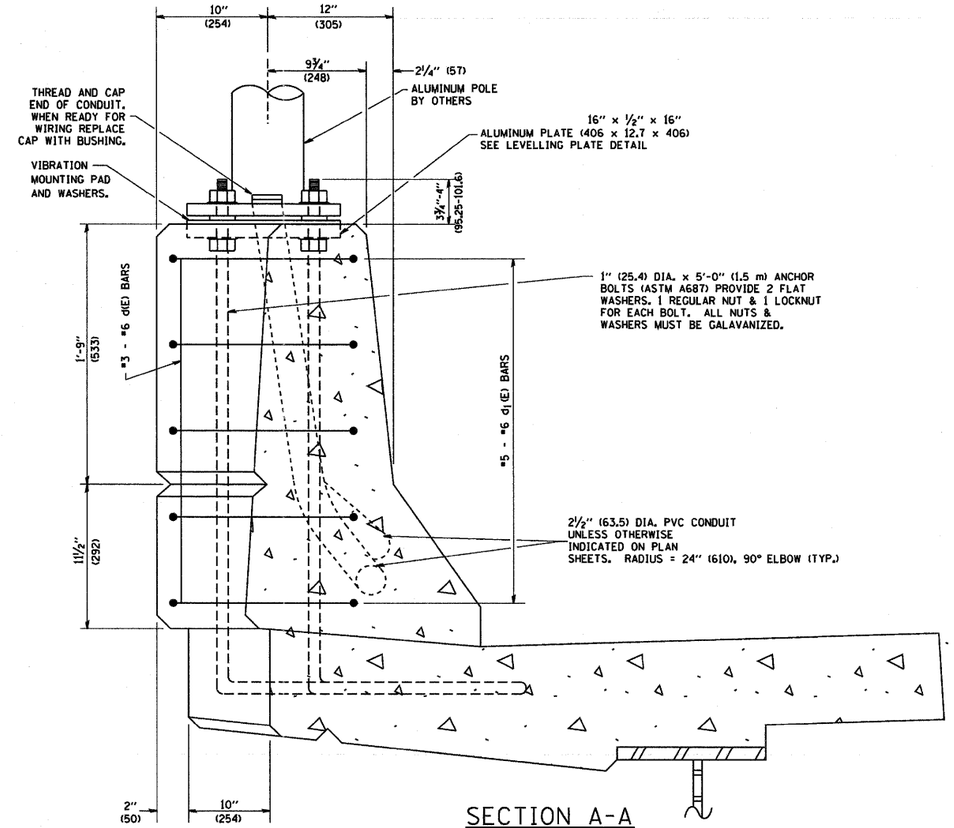
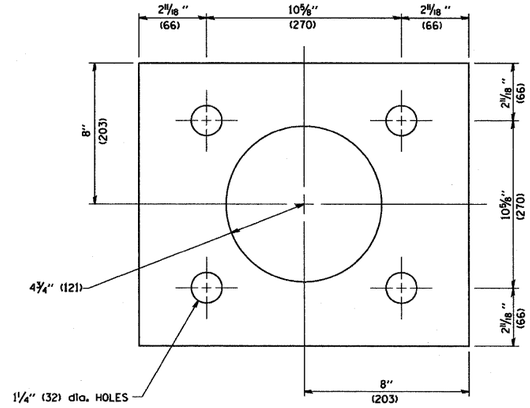


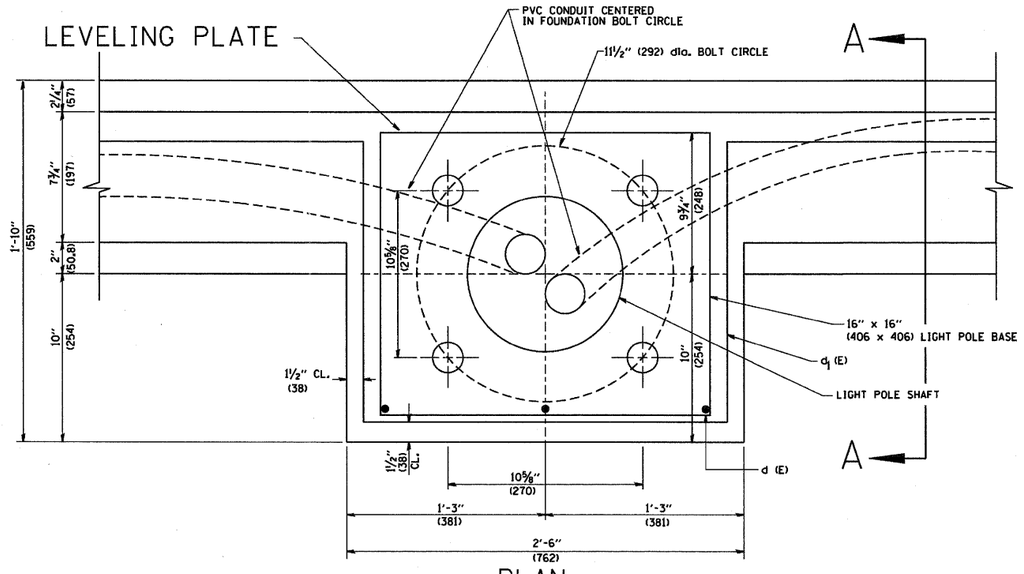
1" (25.4) dia. ANCHOR BOLT



SECTION A-A



LEVELING PLATE DETAIL



PLAN

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. LEVEL LIGHT POLE PLATES, USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE TOP OF THE PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
3. THE COST OF ANCHOR BOLTS, CONDUIT, LEVELLING PLATE AND FOUNDATION IS INCLUDED IN THE COST OF THE BRIDGE STRUCTURE.

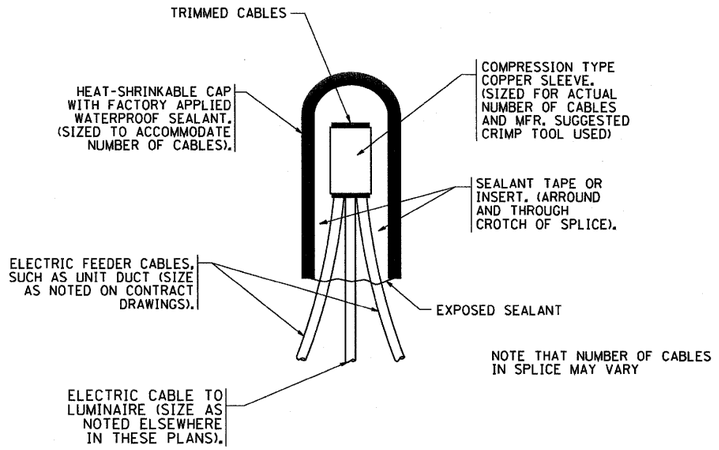
FILE NAME = W:\diststd\22x34\be329.dgn	USER NAME = geglenobt	DESIGNED -	REVISED - 06-28-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL
11 1/2" (292 mm) BOLT CIRCLE

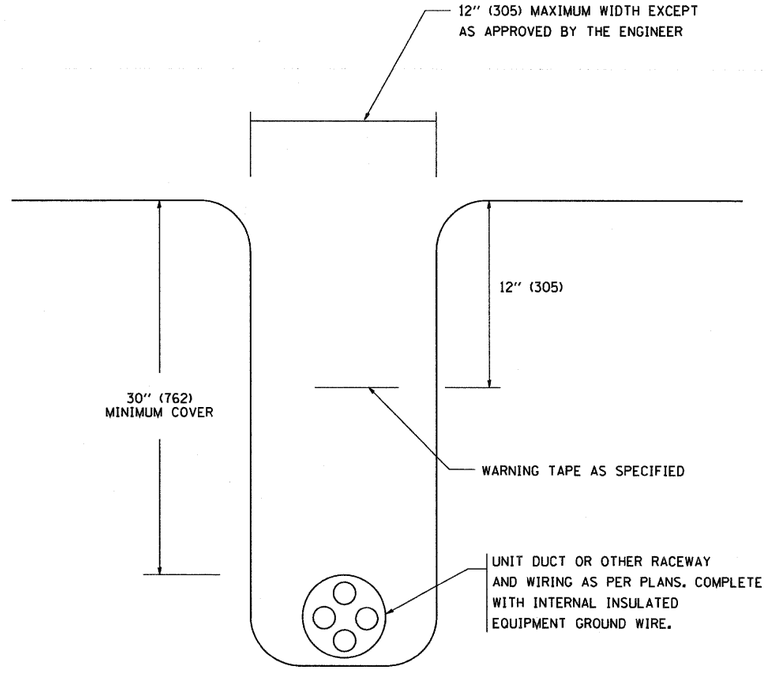
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	45
	BE-329	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



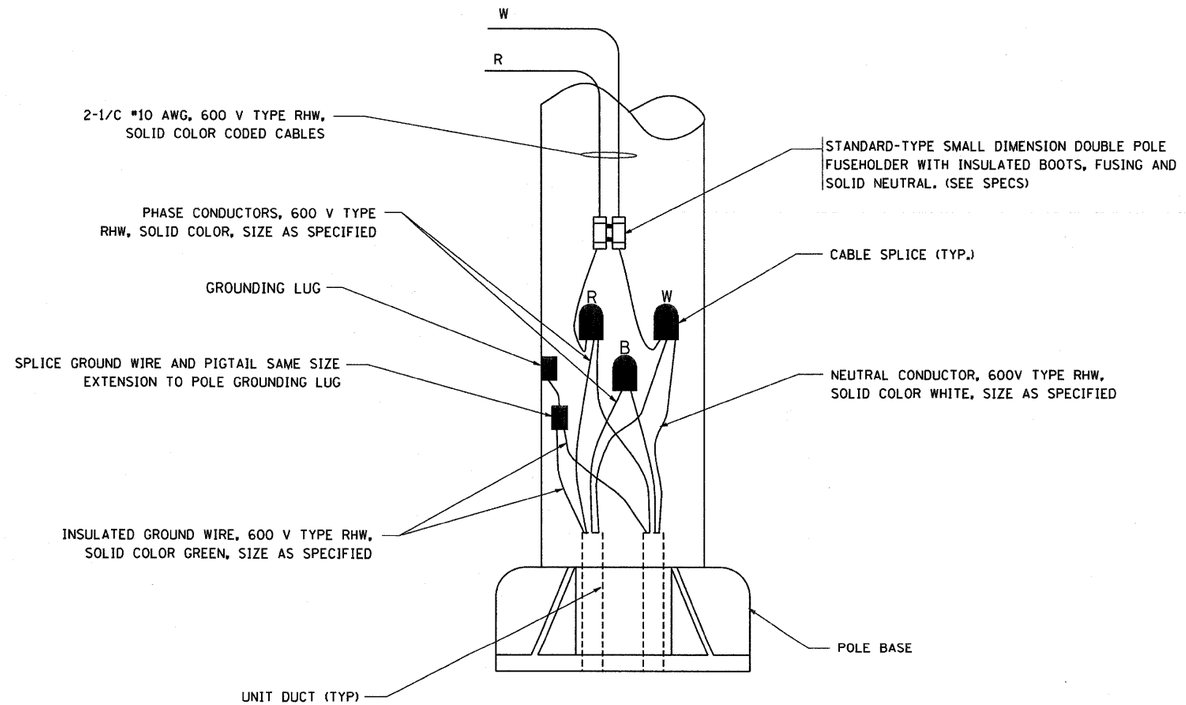
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

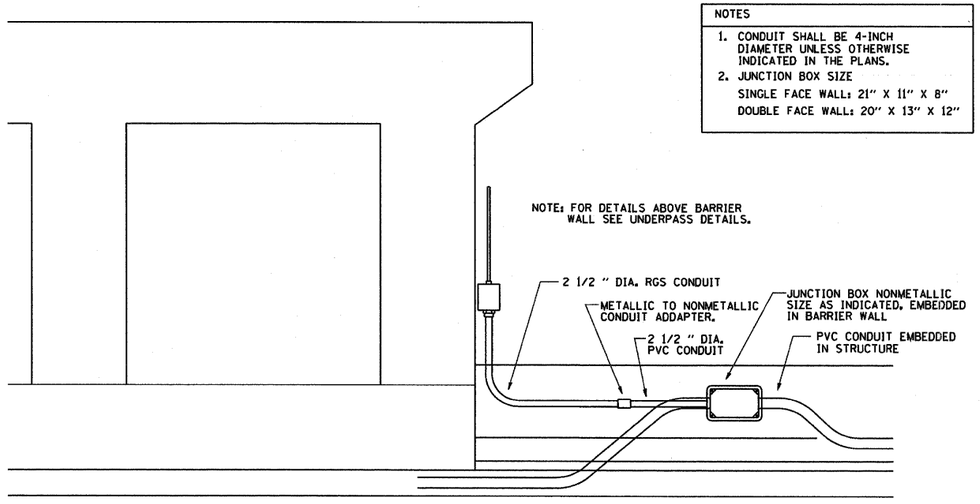
N.T.S.



POLE WIRING DETAIL

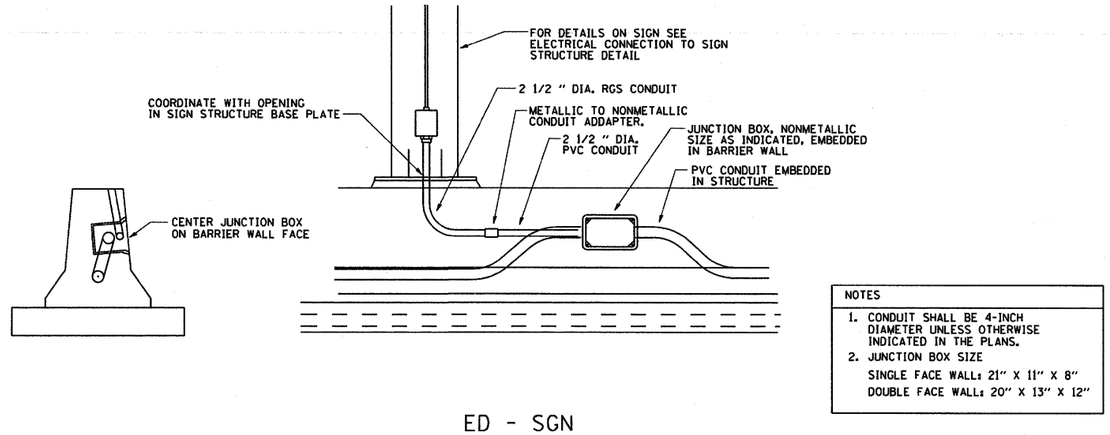
N.T.S.

FILE NAME = W:\diststd\22x34\be702.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A	F.A.U. RTE. 1257	SECTION 104RB-R	COUNTY LAKE	TOTAL SHEETS 54	SHEET NO. 46
		DRAWN -	REVISED -				BE-702		CONTRACT NO. 62102	
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
	PLOT DATE = 1/4/2008	DATE -	REVISED -							



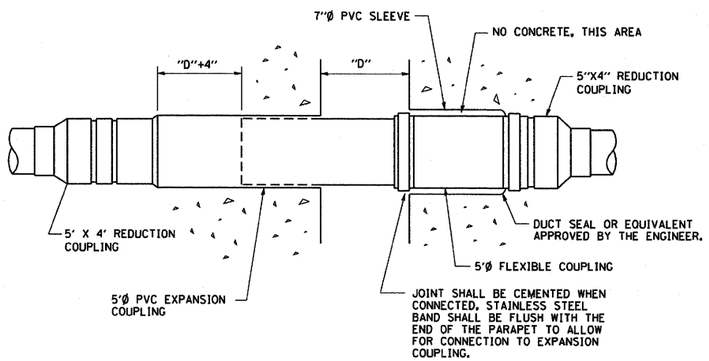
ED - BWD

ELECTRIC CONNECTION TO UNDERPASS LIGHTING



ED - SGN

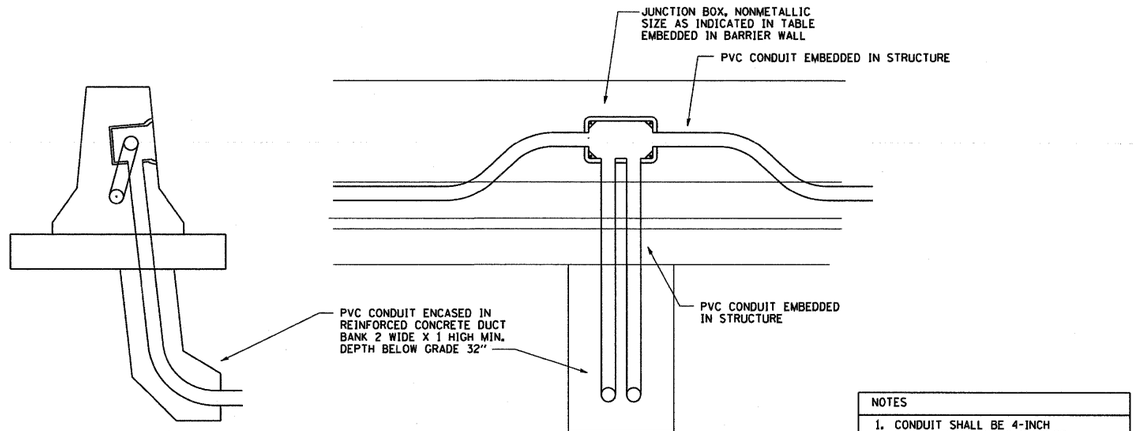
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING



INSTALLATION OF CONDUIT

IN BRIDGE PARAPET EXPANSION JOINT

(N.T.S.)



ED - BW

JUNCTION BOX EMBEDDED IN BARRIER WALL

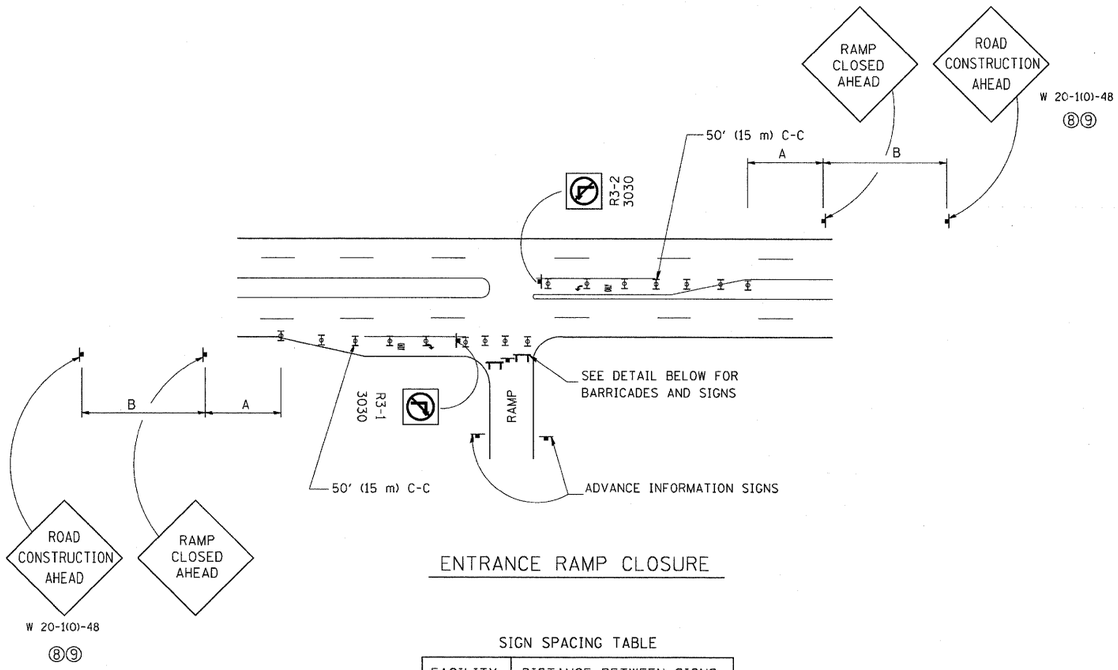
FILE NAME = be703.dgn	USER NAME = geglienobt	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/5/2009	DATE - 01-20-2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ELECTRICAL DETAILS, SHEET B
J BOX EMBEDDED IN BARRIER WALL – INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT – ELECTRIC CONNECTION TO UNDERPASS LIGHTING

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	47
	BE-703	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

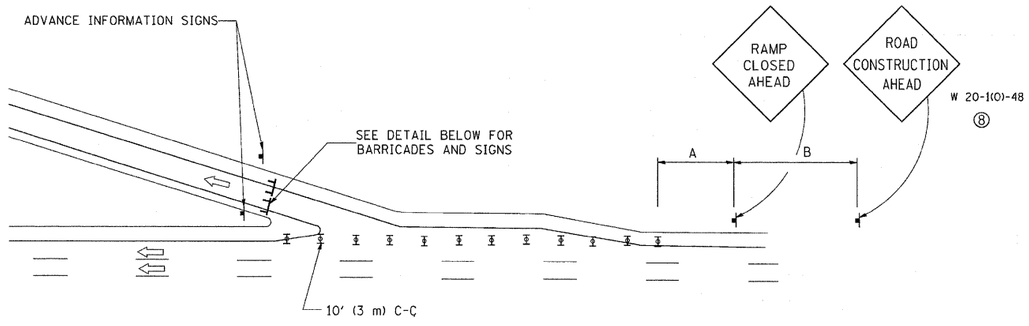


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS A	DISTANCE BETWEEN SIGNS B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

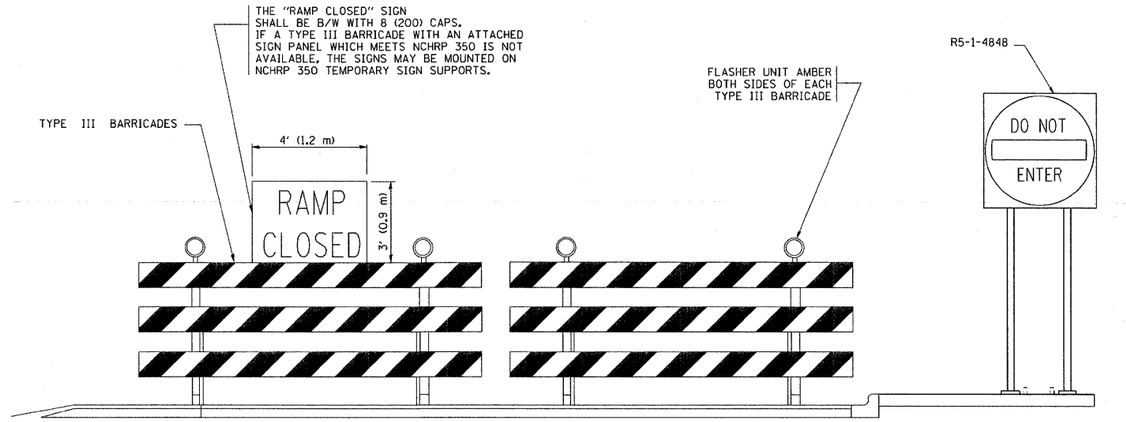


EXIT RAMP CLOSURE

SYMBOLS

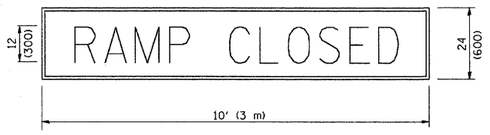
TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT

TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN

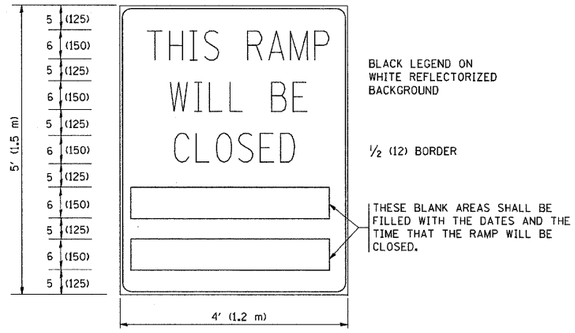


BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND

½ (12) BORDER

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY- FOUR 24 HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR 24 HOURS IN LENGTH.
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

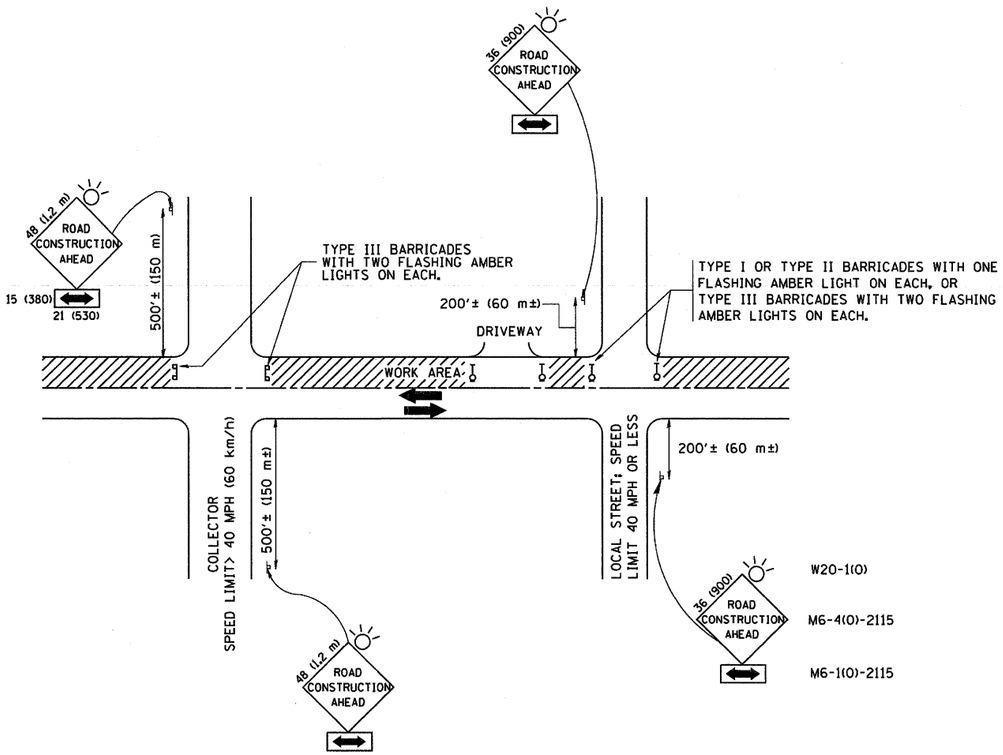
FILE NAME = W:\diststd\22x34\tc08.dgn	USER NAME = leyse	DESIGNED - DWS	REVISED - DWS/JAF 12-02
		DRAWN -	REVISED - JAF 02-06
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - SPB 01-07
	PLOT DATE = 1/26/2010	DATE - 02-83	REVISED - SPB 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY ENTRANCE AND EXIST RAMP CLOSURE DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	48
	TC-08	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	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.

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

FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglienobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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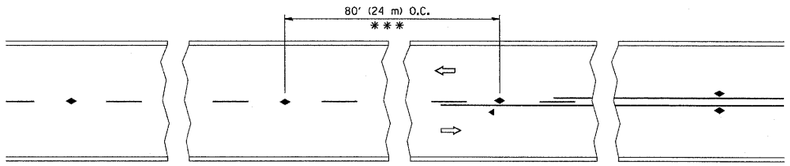
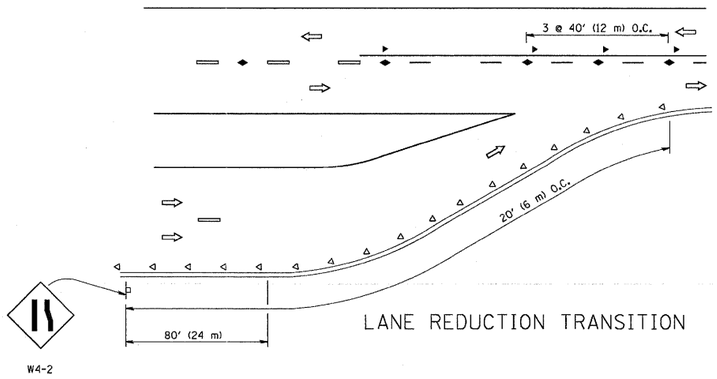
	TC-10	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

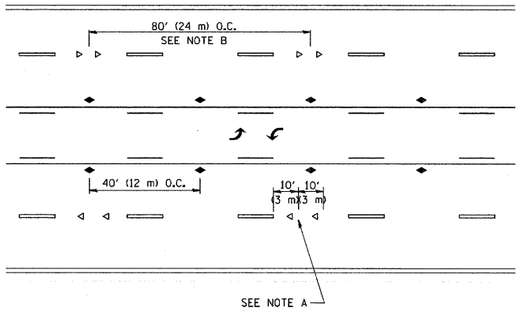


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

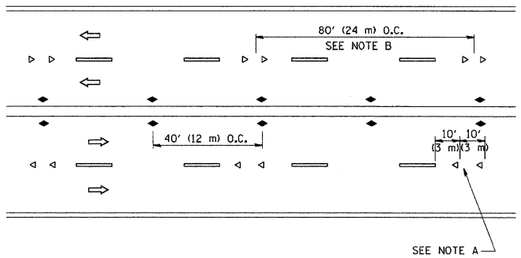
TWO-LANE/TWO-WAY



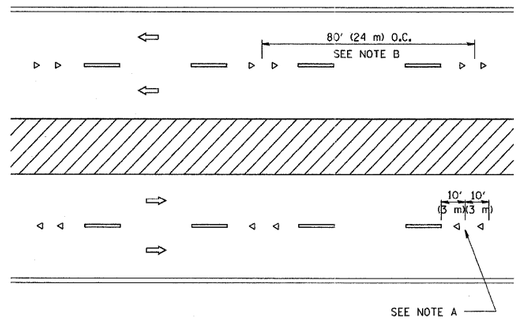
LANE REDUCTION TRANSITION



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

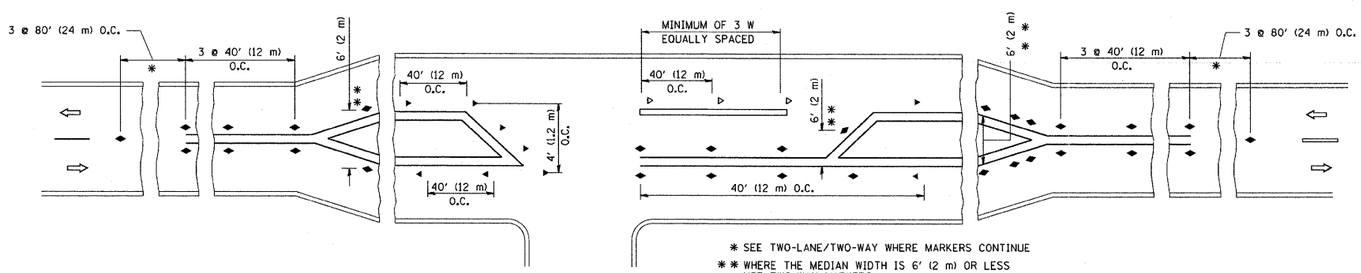
LANE MARKER NOTES

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.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

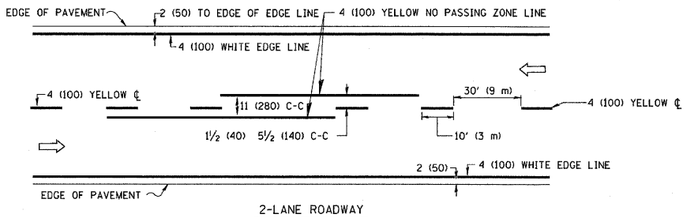
** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

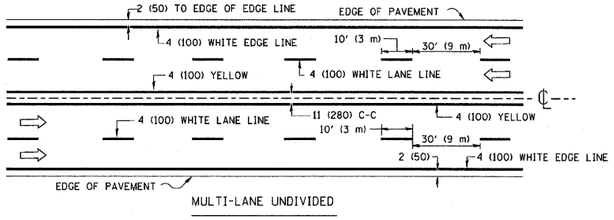
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\pw_work\pwidot\drivakosgn\d0128315\tc11.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
		DRAWN -	REVISED - T. RAMMACHER 03-12-99		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00		
	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

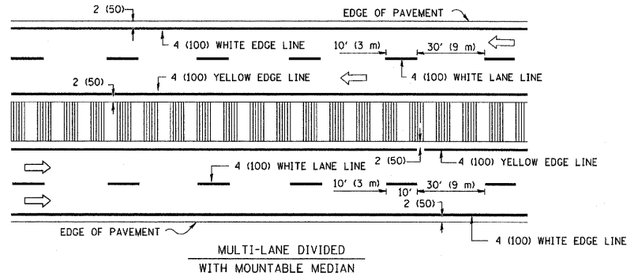
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	50
	TC-11	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



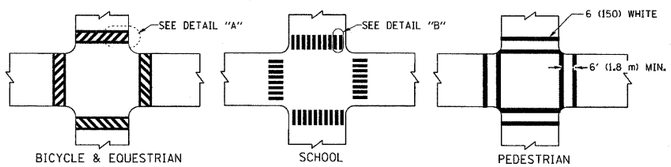
MULTI-LANE UNDIVIDED

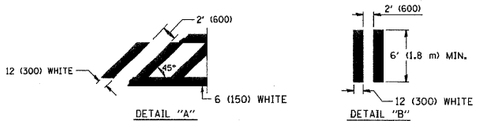


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

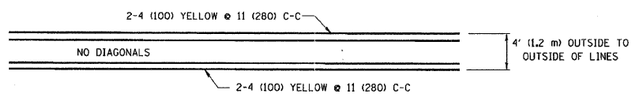
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

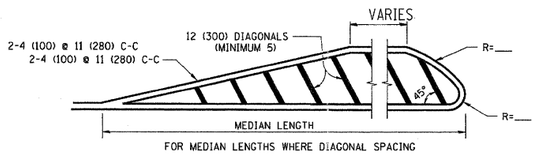




TYPICAL CROSSWALK MARKING



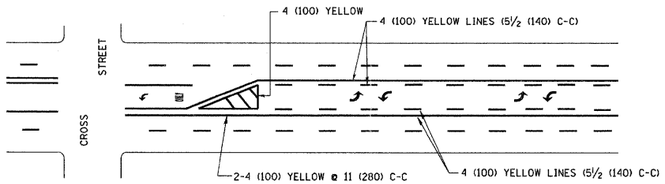
4' (1.2 m) WIDE MEDIANS ONLY



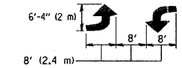
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

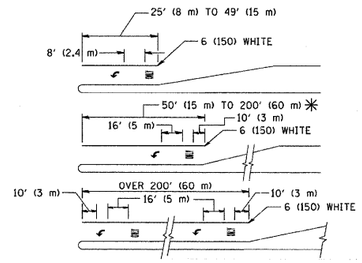


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

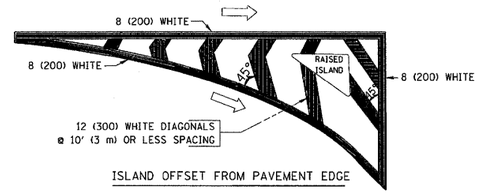


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

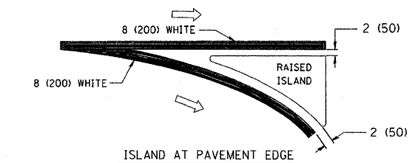
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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	5½ (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; 5½ (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.

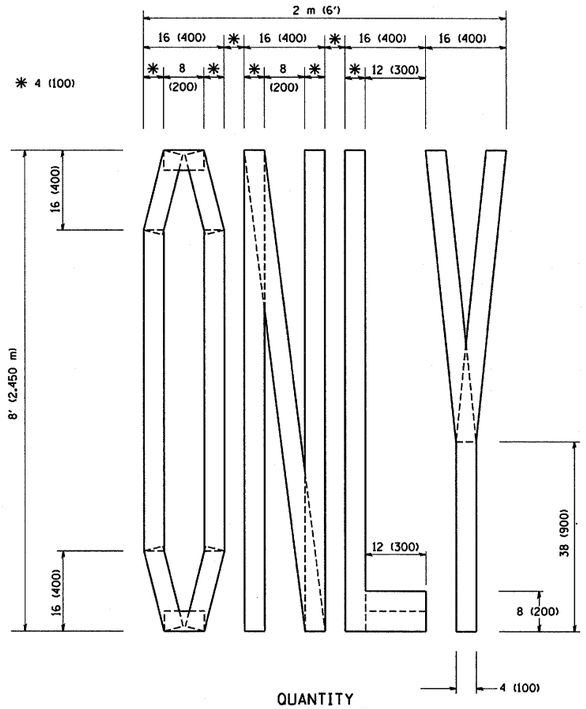
FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\tc13.dgn	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
		DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

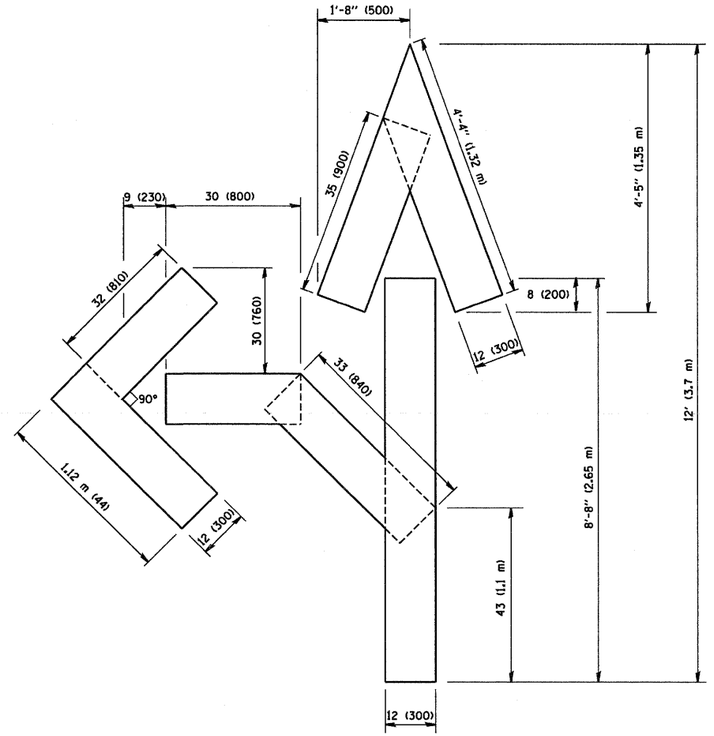
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

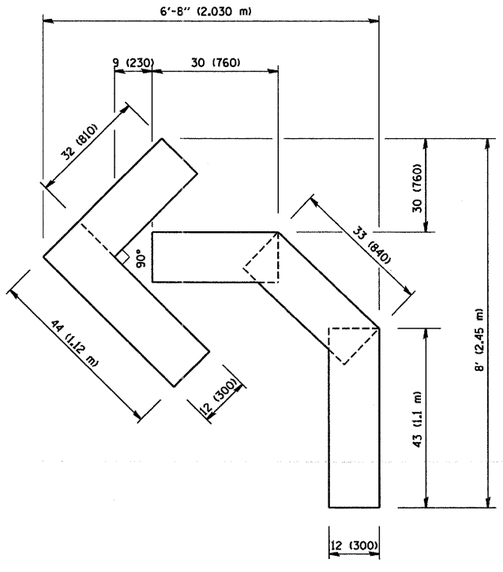
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	51
	TC-13	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = W:\diststd\22x34\tc16.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	52
	TC-16	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

ROUTE MARKERS

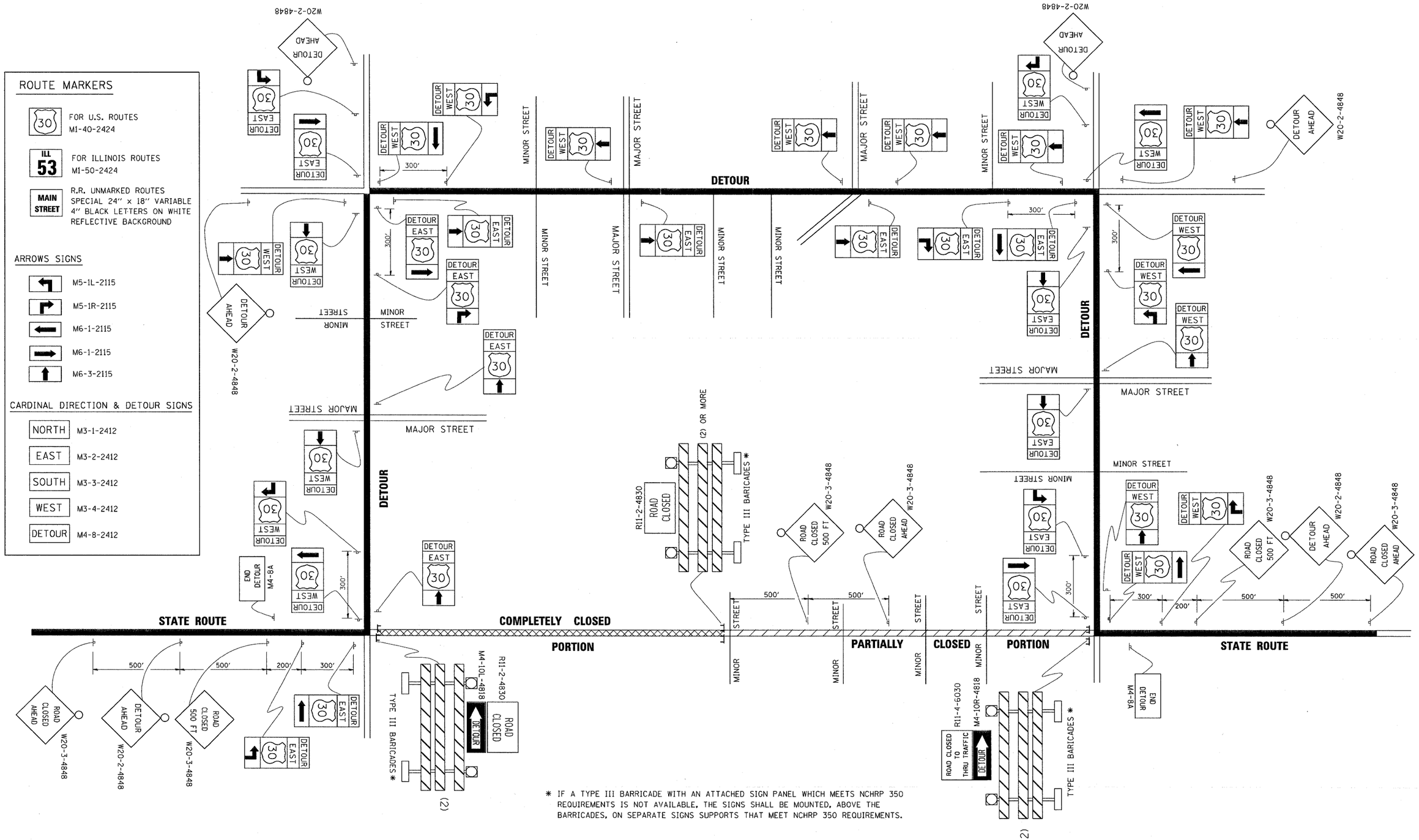
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

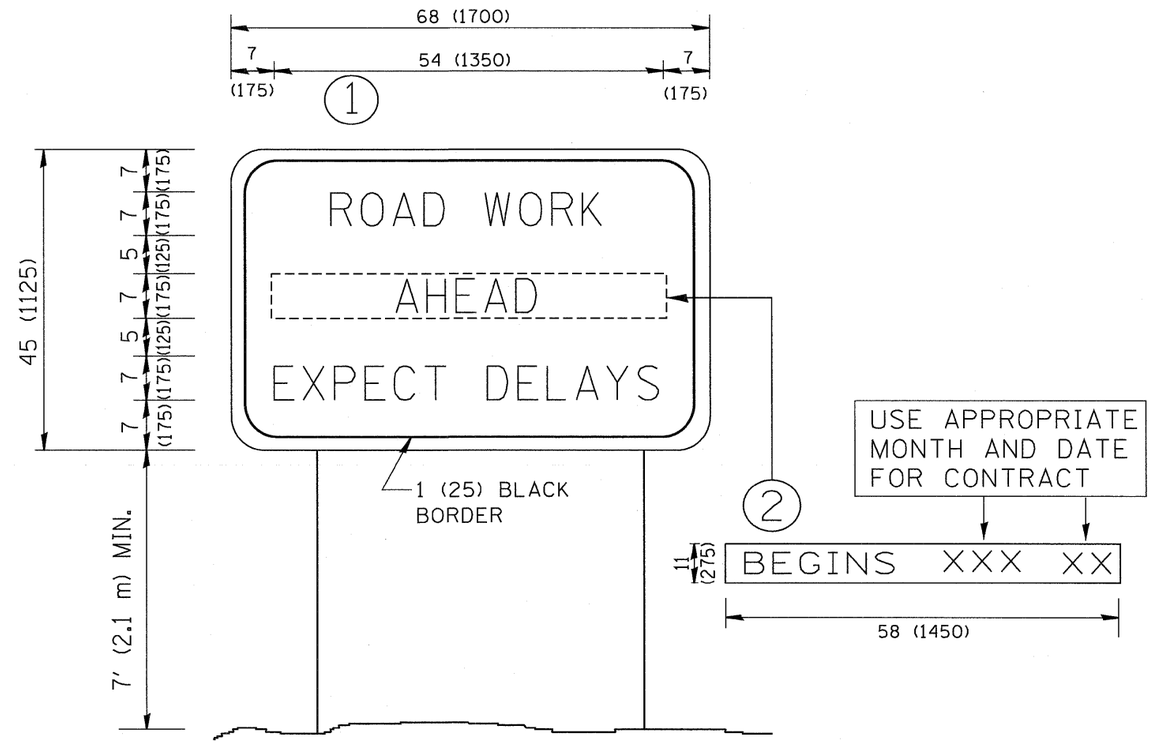
FILE NAME = c:\pw_work\PWIDOT\DRIVAKOSGN\d0108315\tc21.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	53
	TC-21	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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.

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	104RB-R	LAKE	54	54
	TC-22	CONTRACT NO. 62102		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		