

04-27-2018 LETTING ITEM 007

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	2015-083-B	LAKE	*26	1
ILLINOIS			CONTRACT NO. 62B84	

*26+1 = 27 TOTAL SHEETS

D-91-162-16

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE
VILLAGE OF LAKE BARRINGTON

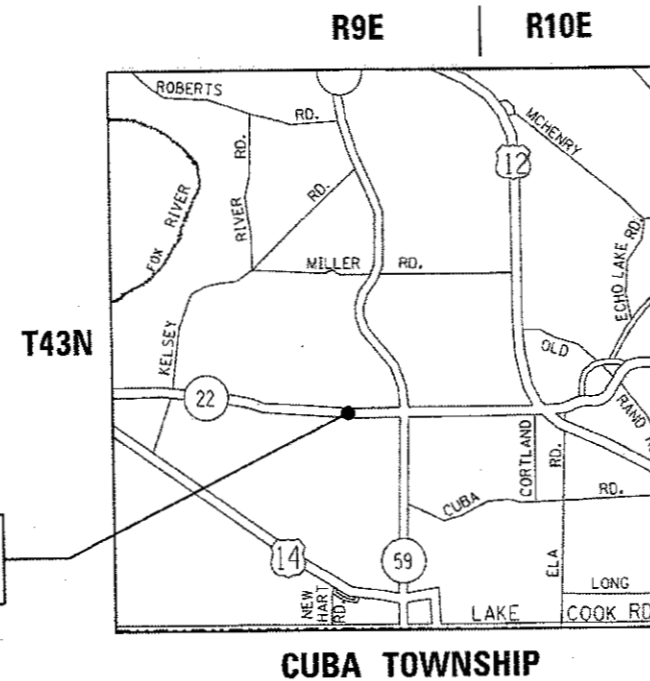
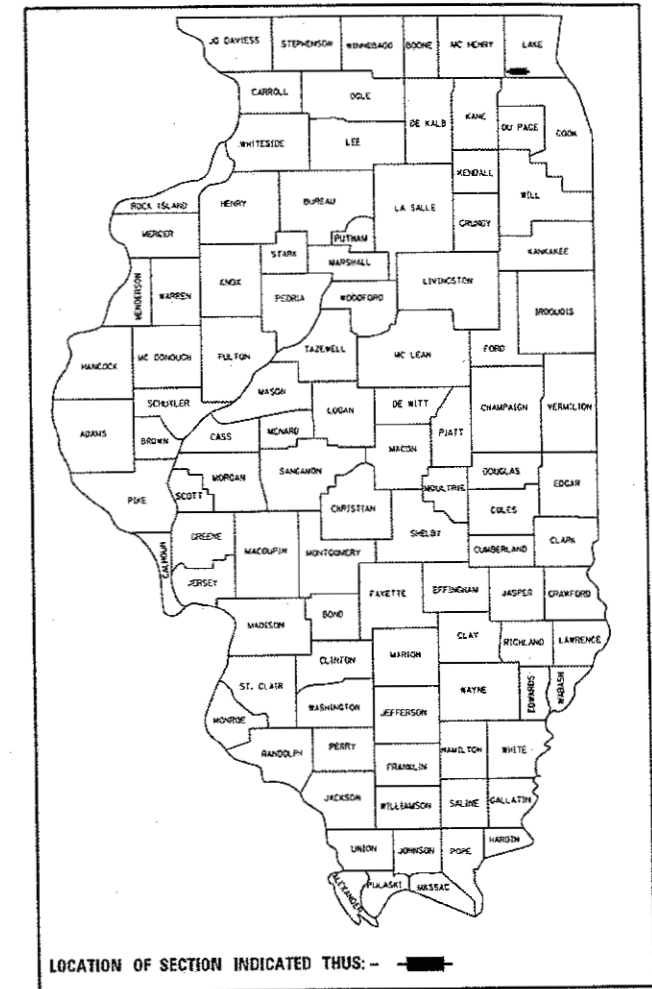
TRAFFIC DATA

2017 ADT = 12900
SPEED LIMIT = 50 MPH

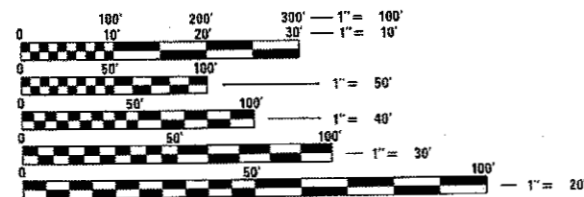
PROPOSED
HIGHWAY PLANS

FAP ROUTE 337: IL 22
AT DITCH W OF IL 59
SECTION 2015-083-B
CULVERT REPAIR
LAKE COUNTY

C-91-162-16



IMPROVEMENT LOCATION
SN 049-0590



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

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

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

GROSS LENGTH = 200.00 FT. = 0.038 MILE
NET LENGTH = 200.00 FT. = 0.038 MILE

CONTRACT NO. 62B84

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED ~~February~~ 1 20 18

Anthony J. Quinley / *AS*
REGIONAL ENGINEER

Mar 23 20 18
ec E.A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

May 23 20 18
Paul J. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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STATE STANDARDS

280001-07 TEMPORARY EROSION CONTROL SYSTEMS
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 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
 701901-07 TRAFFIC CONTROL DEVICES
 725001-01 OBJECT AND TERMINAL MARKERS
 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES:

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF LAKE BARRINGTON.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL."
5. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
9. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT Walter.Czarny@illinois.gov A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
10. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION.
11. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE (BRIDGE INSPECTORS).
12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
15. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
16. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
17. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN 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.
18. THE CONTRACTOR SHALL INFORM LAKE COUNTY TMC OF CLOSURE 48 HOURS IN ADVANCE.
19. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH THE ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
20. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.

FILE NAME =	USER NAME = KAINIP	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\894EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\011821\Drawings\Design\0118216-sht-gennote.dgn	PROJECT = 0118216	CHECKED -	REVISED -		337	2015-083-B	LAKE	26	2			
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 62884			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/7/2018	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.					

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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	BRIDGE 0013 049-0590				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	20	20					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	89	89					
20101100	TREE TRUNK PROTECTION	EACH	1	1					
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	7	7					
20200100	EARTH EXCAVATION	CU YD	500	500					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	34	34					
20700220	POROUS GRANULAR EMBANKMENT	CU YD	90		90				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	80	80					
21400100	GRADING AND SHAPING DITCHES	FOOT	75	75					
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	60	60					
28000400	PERIMETER EROSION BARRIER	FOOT	745	745					
28100707	STONE DUMPED RIPRAP, CLASS A4	SO YD	26		26				
28200200	FILTER FABRIC	SO YD	55		55				
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	34	34					
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	389	389					
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	45	45					
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	168	168					

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	BRIDGE 0013 049-0590				
40701876	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 3/4"	SO YD	283	283					
44000100	PAVEMENT REMOVAL	SO YD	309	309					
48101202	AGGREGATE SHOULDERS, TYPE B	CU YD							
48203036	HOT-MIX ASPHALT SHOULDERS, 9 3/4"	SO YD	89	89					
50102400	CONCRETE REMOVAL	CU YD	28		28				
50200100	STRUCTURE EXCAVATION	CU YD	80		80				
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	41	41					
50800105	REINFORCEMENT BARS	POUND	10410		10410				
52200015	PERMANENT SHEET PILING	SO FT	610		610				
54003000	CONCRETE BOX CULVERTS	CU YD	54		54				
63000003	STEEL PLATE-BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	500	500					
63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	87.5	87.5					
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3					

1/6

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FILE NAME =	USER NAME = KANIP	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLT SCALE = 100000' / 1"	CHECKED -	REVISED -	REVISED -									26	3			
PLT DATE = 2/9/2008	DATE -	REVISED -	REVISED -									CONTRACT NO.				
												SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	BRIDGE 0013 049-0590			
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1		1			
63200310	GUARDRAIL REMOVAL	FOOT	406	406				
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	575	575				
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	LSUM	1	1				
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4				
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	400	400				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4				
78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	13	13				
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SO YD	46		46			
X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	0.25	0.25				
X2511630	EROSION CONTROL BLANKET (SPECIAL)	SO YD	1210	1210				

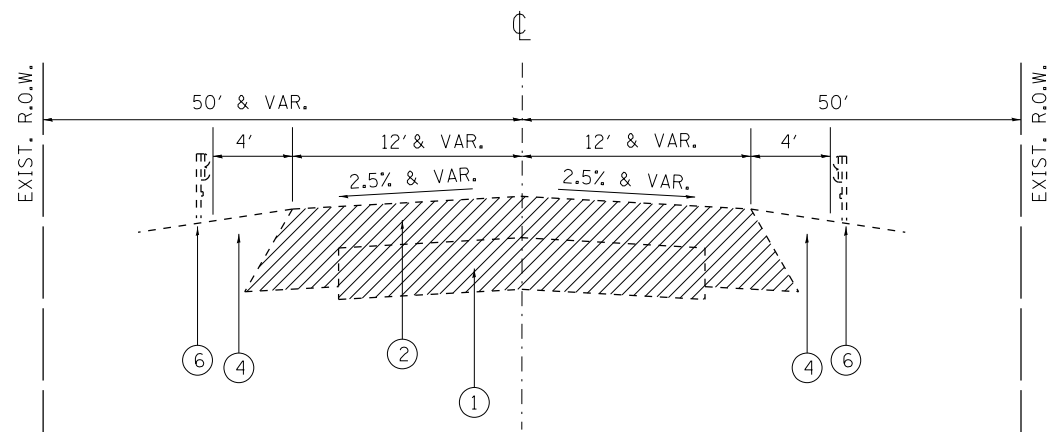
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	BRIDGE 0013 049-0590				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1					
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1					
Z0022800	FENCE REMOVAL	FOOT	187	187					
Z0030850	TEMPORARY INFORMATION SIGNING	SG FT	38	38					
Z0054400	ROCK FILL	CU YD	41		41				
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	9	9					

4

14

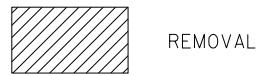
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OFFICE: \\\VLD\BIBID\IT\EQ\11101\spw\FWIDOT\Documents\1007	OFFICE: \\\VLD\BIBID\IT\Projects\015216\CAD\Drawn\Design\015216	CHECKED -	REVISED -						26	4			
PLOT SCALE = 100000' / 1"	DATE -	REVISOR -	CONTRACT NO.										
PLOT DATE = 2/9/2018	DATE -	REVISOR -	SCALE:						SHEET NO. OF	SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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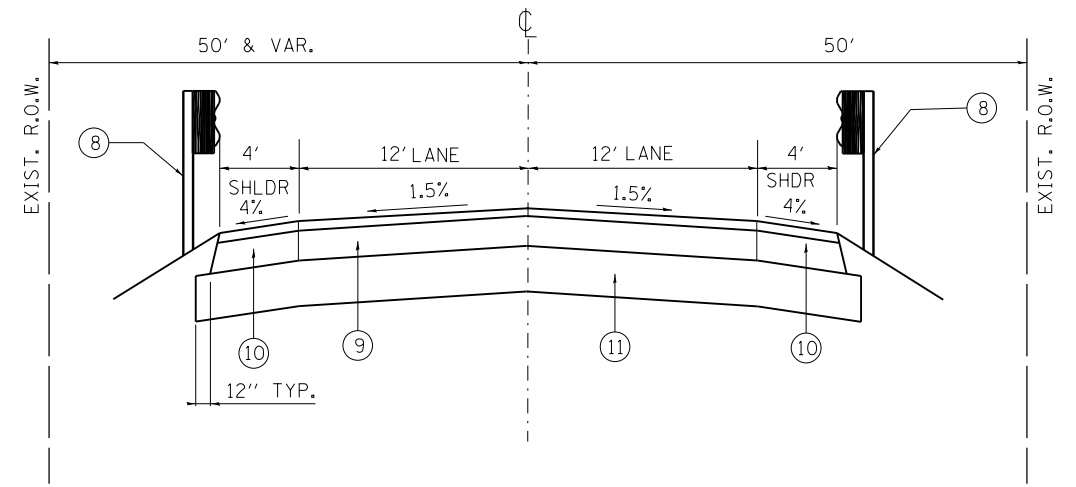
EXISTING TYPICAL SECTION

STA. 39+50 TO STA. 40+50
EMISSION 40+00.5



LEGEND

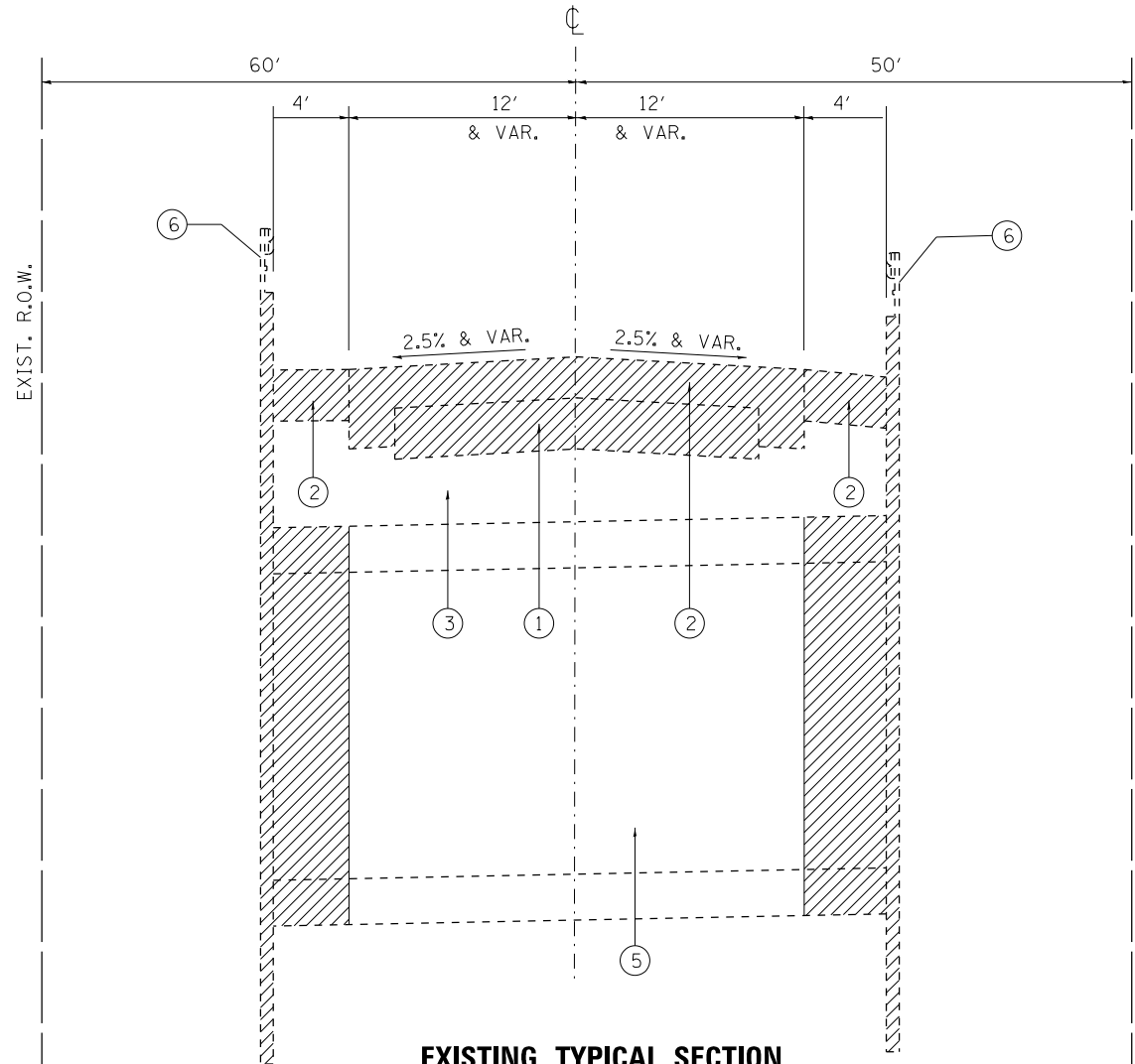
- ① EXISTING PCC PAVEMENT, ±10"
- ② EXISTING HMA PAVEMENT, ±10"
- ③ EXISTING AGGREGATE BASE COURSE
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ EXISTING CULVERT
- ⑥ EXISTING GUARDRAIL TO BE REMOVED
- ⑦ PROPOSED CULVERT EXTENSION
- ⑧ PROPOSED GUARDRAIL
- ⑨ PROPOSED 9¾" FULL DEPTH HMA PAVEMENT
- ⑩ PROPOSED 9¾" HMA SHOULDER
- ⑪ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑫ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B



PROPOSED TYPICAL SECTION

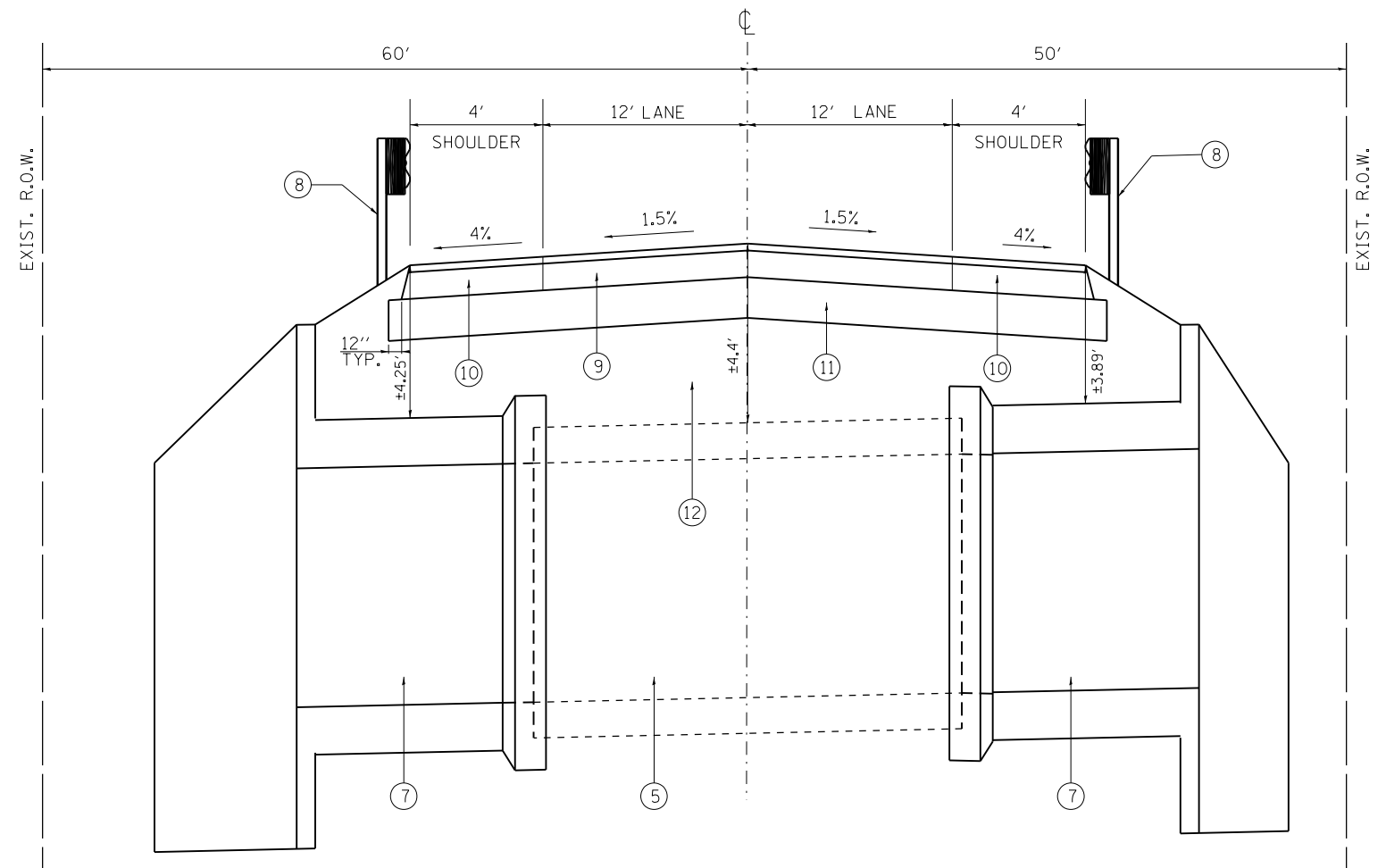
STA. 39+50 TO STA. 40+50
EMISSION 40+00.5

NOTE:
SEE SHEET 6 OF 26 FOR MIXTURES TABLE



EXISTING TYPICAL SECTION

AT STA. 40+00.5



PROPOSED TYPICAL SECTION

AT STA. 40+00.5

FILE NAME =	USER NAME = KAINIP	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI16216\Drawings\Design\DI16216-shr-typical.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/7/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
IL 22 AT DITCH (SN 049-0590)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	2015-083-B	LAKE	26	5
CONTRACT NO. 62B84				
ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT
MIXTURE TYPE	AIR VOIDS Ndes	PROGRAM (QMP)
PAVEMENT RECONSTRUCTION		
9 3/4" FULL DEPTH HMA PAVEMENT		
HOT-MIX-ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 2"	4% @ 70 GYR	QC /QA
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N70; 7 3/4", MIN 2 1/4" LIFTS	4% @ 70 GYR	QC /QA
HMA SHOULDERS		
HOT-MIX-ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 2"	4% @ 70 GYR	QC /QA
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N70; 7 3/4", MIN 2 1/4" LIFTS	4% @ 70 GYR	QC /QA
QMP DESIGNATION: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP)		

NOTES

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LB/SY/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
3. FOR HMA FULL DEPTH "AC TYPE", SEE SPECIAL PROVISIONS.

EARTHWORK SCHEDULE

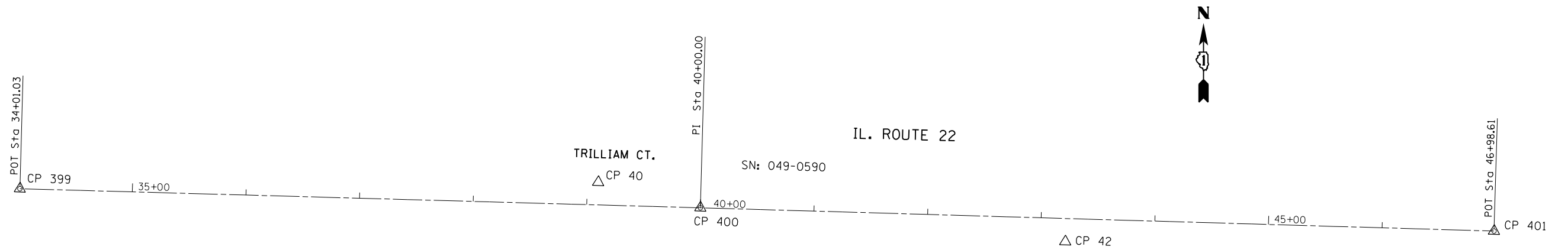
LOCATION	EARTH EXCAVATION (CUBIC YARDS)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%) (CUBIC YARDS)	EMBANKMENT (CUBIC YARDS)	EARTHWORK BALANCE (+) WASTAGE / (-) SHORTAGE (CUBIC YARDS)
STA. 39+50 TO STA. 40+50	500	425	255	+ 170

TREE REMOVAL SCHEDULE

TREE REMOVAL (6 TO 15 UNITS DIAMETER) 20100110			
STATION	OFFSET	LT/RT	SIZE
39+46.44	30.45'	RT	12"
39+55.50	23.98'	RT	8"
40+02.55	29.72'	RT	15"
TREE REMOVAL (OVER 15 UNITS DIAMETER) 20100210			
STATION	OFFSET	LT/RT	SIZE
39+38.31	30.55'	RT	21"
39+54.72	29.67'	RT	23"
39+71.79	29.33'	RT	30"

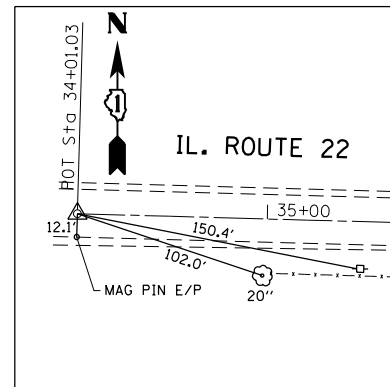
GRADING AND SHAPING DITCHES

GRADING AND SHAPING DITCHES 21400100					
STATION	OFFSET	LT/RT	STATION	OFFSET	LT/RT
39+05	25'	RT	39+80	34'	RT



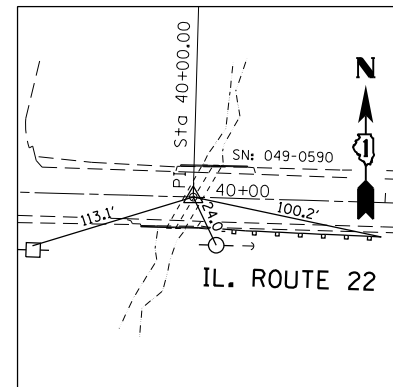
BENCHMARK:

SPIKE OF YELLOW SLEEVE IN
POWER POLE SOUTH SIDE OF IL. RTE. 22
ACROSS FROM TRILLIAM CT.
(±110') WEST OF 4'x8' BOX CULVERT
ELEVATION 763.13



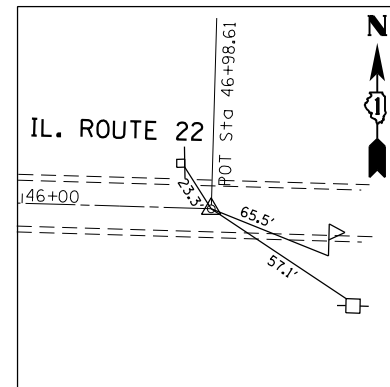
CONTROL POINT #399

MAGNETIC NAIL ϕ IL. RTE. 22
WEST OF STRUCTURE
STA. 34+01.03
N = 2012181.5023
E = 1031010.8246
ELEV. =



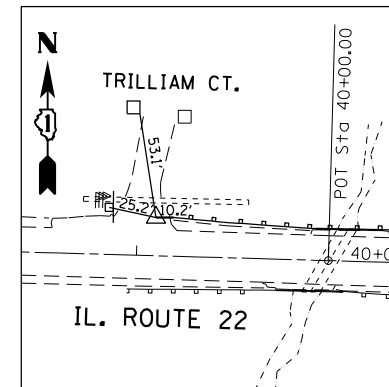
CONTROL POINT #400

MAGNETIC NAIL ϕ IL. RTE. 22
AT STRUCTURE
STA. 40+00.00
N = 2012164.6926
E = 1031609.5623
ELEV. = 765.911



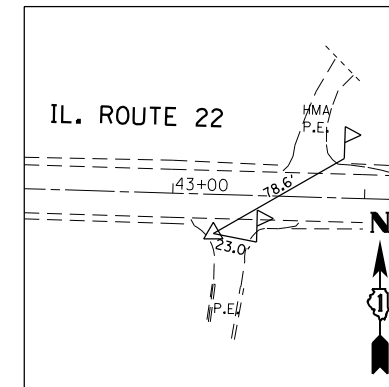
CONTROL POINT #401

MAGNETIC NAIL ϕ IL. RTE. 22
EAST OF STRUCTURE
STA. 46+98.61
N = 2012144.1526
E = 1032307.8663
ELEV. =



CONTROL POINT #40

MAGNETIC NAIL IN RETURN
OF TRILLIAM CT.
STA. 39+09.58, 19.93' LT.
N = 2012187.1567
E = 1031519.7339
ELEV. = 763.83'

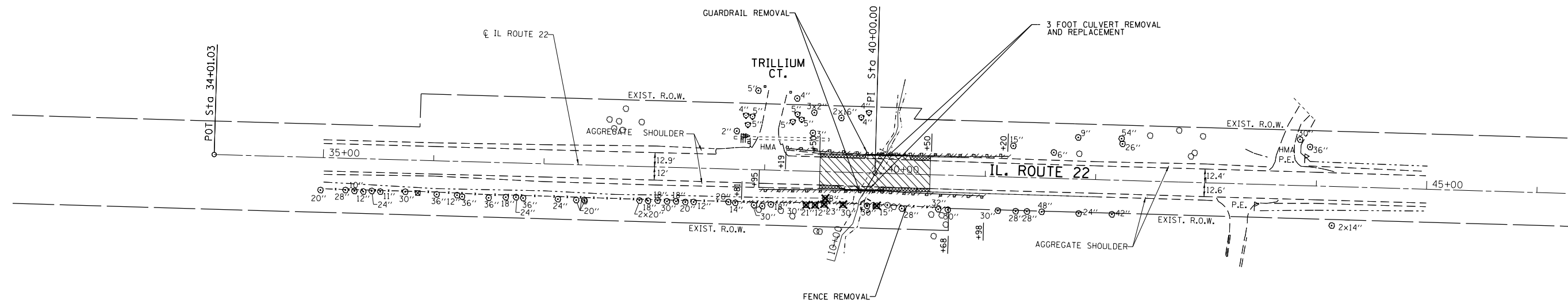


CONTROL POINT #42

MAGNETIC NAIL IN PRIVATE ENTRANCE
SOUTH SIDE OF IL. RTE. 22 EAST OF
4'x8' STRUCTURE, (±330')
STA. 43+21.75, 20.37' RT.
N = 2012134.8739
E = 1031930.5665
ELEV. = 777.65'

CONTRACT NO. 62B84

FILE NAME = p:\IL\084EBID\INTEG.\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI16216\Drawings\Design\DI16216-shr-atb.dgn	USER NAME = KAINIP	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 22 AT DITCH (SN 049-0590) ALIGNMENT, TIES AND BENCHMARKS PLAN		F.A.P. RTE. 337	SECTION 2015-083-B	COUNTY LAKE	TOTAL SHEETS	SHEET NO. 6A
	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -				SCALE: 1"=50'	SHEET	OF	SHEETS	STA.
Default	PLOT DATE = 3/7/2018	DATE -	REVISED -								



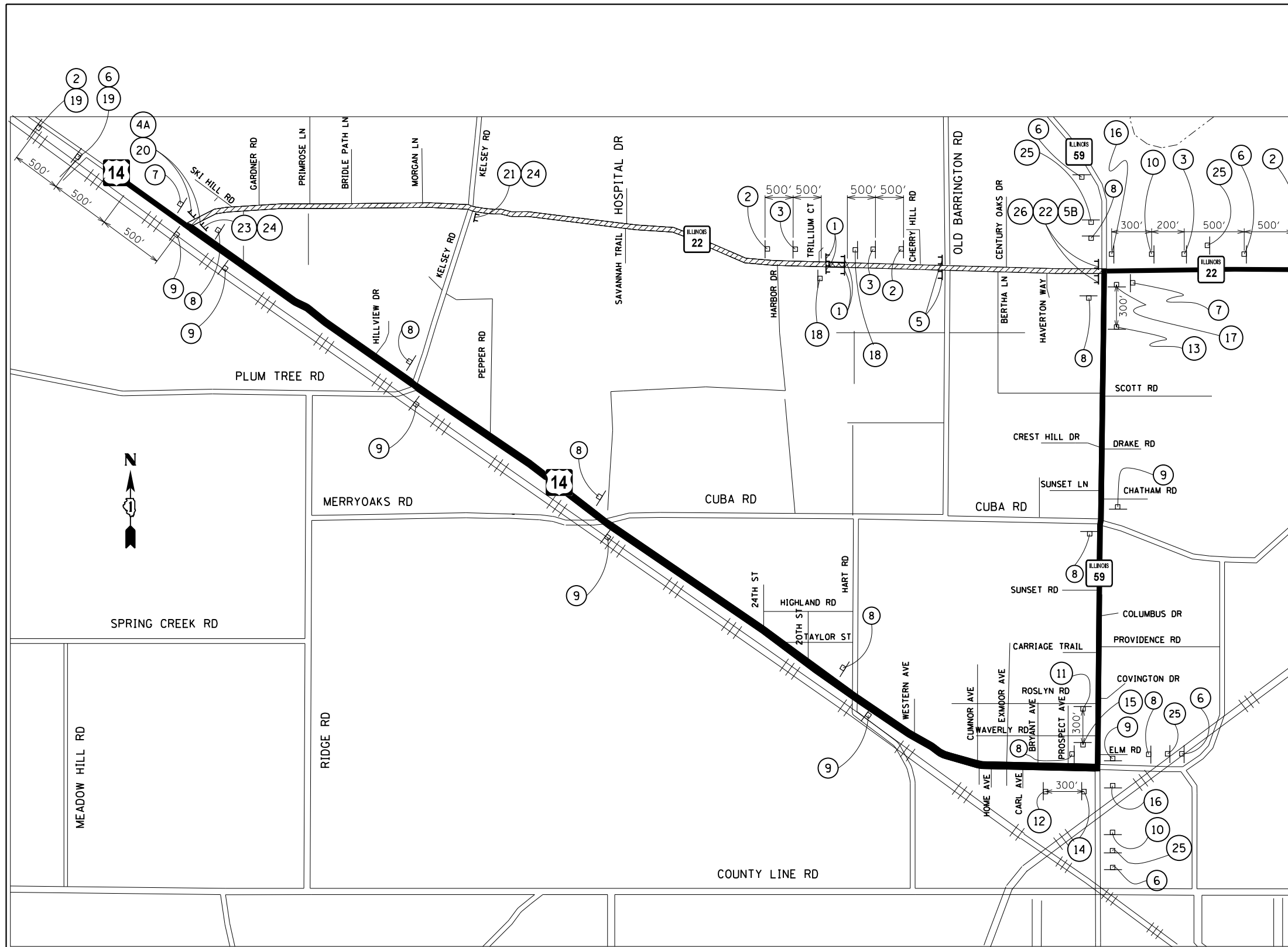
LEGEND

- TREE REMOVAL
- PAVEMENT REMOVAL
- AGGREGATE SHOULDER REMOVAL (SEE NOTE)
- TREE TRUNK PROTECTION

NOTE:

EXISTING AGGREGATE SHOULDER REMOVAL SHALL BE PAID UNDER "EARTH EXCAVATION".

FILE NAME =	USER NAME = KAINIP	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 22 AT DITCH (SN 049-0590) REMOVAL PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\D116216\Drawings\Design\0116216-shr-Removal.dgn		CHECKED -	REVISED -						337	2015-083-B	LAKE	26	7
Default	PLOT SCALE = 100.0000' / 1" =	DATE -	REVISED -		CONTRACT NO. 62B84								
	PLOT DATE = 3/7/2018				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	



NOTES:

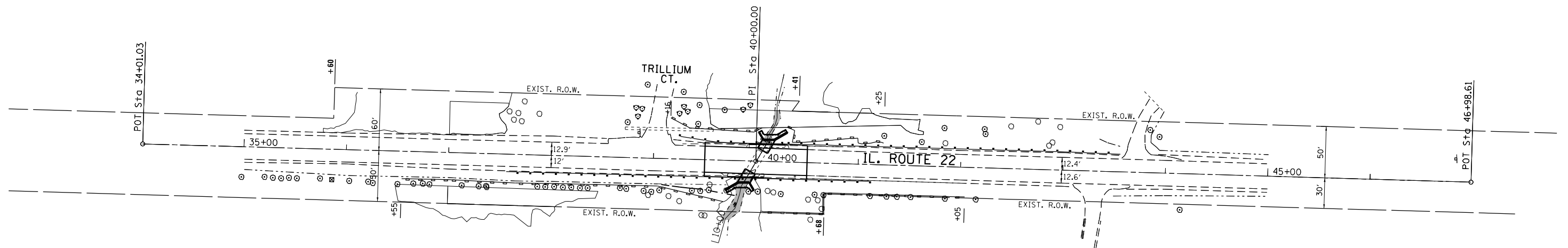
1. PLACEMENT AND SPACING OF SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH TC-21 (DETOUR SIGNING FOR CLOSING STATE HIGHWAYS).
2. THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND ALL SIGNS, INCLUDING SIGN PANEL OVERLAYS, SHALL BE INCLUDED IN THE CONTRACT COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. ACCESS TO ALL PRIVATE ENTRANCES SHALL BE MAINTAINED.

4. ALL SIGNALIZED INTERSECTIONS ALONG THE DETOUR ROUTE SHALL IMPLEMENT TEMPORARY TRAFFIC SIGNAL TIMING.
- SIGNALIZED INTERSECTIONS:**
- US 14 AND IL 22
 - IL 22 AND KELSEY RD
 - IL 22 AND IL 59
 - IL 59 AND CUBA RD
 - IL 59 AND US14
 - US14 AND WESTERN AVE
 - US14 AND HART RD
 - US14 AND PEPPER RD
 - US 14 AND KELSEY RD

LEGEND

- Type III barricade with flashing lights
- DETOUR ROUTE
- CONSTRUCTION ZONE

1	ROAD CLOSED R11-2-4830	9	DETOUR EAST M4-8-2412 M3-2-2412 M1-50-2424 M6-3-2115	17	DETOUR EAST M4-8-2412 M3-2-2412 M1-50-2424
2	Flashing light ROAD CLOSED AHEAD W20-3-4848	10	DETOUR WEST M4-8-2412 M3-4-2412 M1-50-2424 M5-1L-2115	18	CLOSURE DETAIL SIGN. REFER TO SHEET 18 OF 26 FOR SIGN DETAILS
3	Flashing light ROAD CLOSED 500 FT W20-3-4848	11	DETOUR WEST M4-8-2412 M3-4-2412 M1-50-2424 M5-1R-2115	19	IL 22 M1-50-2424
4	ROAD CLOSED TO THRU TRAFFIC R11-4-6030	12	DETOUR EAST M4-8-2412 M3-2-2412 M1-50-2424 M5-1L-2115	20	ROAD CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY R11-3a-6030
4A	DETOUR M4-10R-4818	13	DETOUR EAST M4-8-2412 M3-2-2412 M1-50-2424 M5-1R-2115	21	ROAD CLOSED 1 1/2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3a-6030
5	ROAD CLOSED TO THRU TRAFFIC R11-4-6030	14	DETOUR EAST M4-8-2412 M3-2-2412 M1-50-2424 M6-1-2115	22	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY R11-3a-60X30
5B	DETOUR M4-10L-4818	15	DETOUR WEST M4-8-2412 M3-4-2412 M1-50-2424 M6-1-2115	23	ALL BUSINESSES OPEN
6	DETOUR AHEAD W20-2-4848	16	DETOUR WEST M4-8-2412 M3-4-2412 M1-50-2424 M6-1-2115	24	HOSPITAL ACCESS OPEN
7	END DETOUR M4-8A	25	DETOUR WEST M4-8-2412 M3-4-2412 M1-50-2424 M6-3-2115	26	HOSPITAL ACCESS FOLLOW DETOUR
8	DETOUR WEST M4-8-2412 M3-4-2412 M1-50-2424 M6-3-2115				WHITE/BLUE SPECIAL 48"X30" 8" WHITE LETTERS ON BLUE BACKGROUND
					WHITE/BLUE SPECIAL 48"X30" 8" WHITE LETTERS ON BLUE BACKGROUND



LEGEND

--- TEMPORARY EROSION BARRIER

FILE NAME =	USER NAME = KAINIP	DESIGNED -	REVISED -
pw\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI16216\Drawings\Design\DI16216-sh1-Erosion.dgn		CHECKED -	REVISED -
Default	PLOT DATE = 3/7/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 22 AT DITCH (SN 049-0590)
EROSION AND SEDIMENT CONTROL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	2015-083-B	IAKE	26	10
CONTRACT NO. 62B84				
ILLINOIS FED. AID PROJECT				

WATERWAY INFORMATION

DRAINAGE AREA = 0.405 Sq. Mi.		Existing Low Grade Elev. = 763.31 at Sta. 3+377.5 (metric)			
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. Head - Ft.	Headwater EL.
			Exist.	H.W.E.	Exist.
	10	72	20	759.9	0.0
Design	50	154	23	760.2	1.1
Base	100	202	25	760.4	1.5
	500	361	29	760.8	2.8
				Exist.	Exist.

2-Year Water Opening = 8.72 Sq. Ft.
 2-Year Natural High Water Elevation = 758.4
 2-Year Head Water Elevation = 756.8

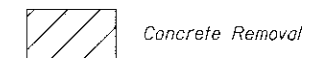
NOTES

- 1) Natural water surface interpolated and taken at u/s face of structure.
- 2) Datum Correlation. All elevations shown are an IDOT datum (add 0.26' for FEMA datum).

NOTE

See sheet S2 of S6 for general notes.

LEGEND



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	90
Stone Dumped RipRap, Class A4	Sq. Yd.	26
Filter Fabric	Sq. Yd.	55
Concrete Removal	Cu. Yd.	28
Structure Excavation	Cu. Yd.	80
Reinforcement Bars	Pound	10,410
Concrete Box Culverts	Cu. Yd.	54
Membrane Waterproofing for Buried Structures	Sq. Yd.	46
Rock Fill	Cu. Yd.	41
Permanent Sheet Piling	SQ. FT.	610

GENERAL PLAN AND ELEVATION

IL 22 AT DITCH

F.A.P. 337

SECTION 2015-083-B

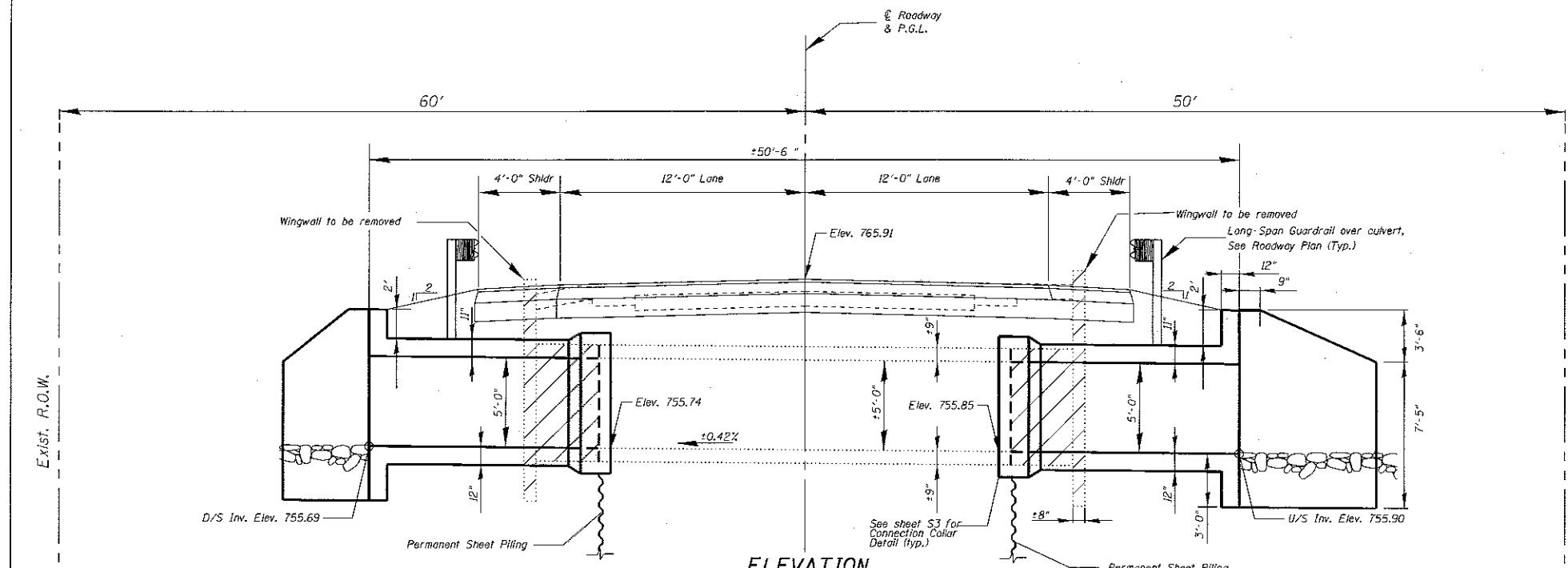
LAKE COUNTY

STATION 40+00.5

STRUCTURE NO. 049-0590

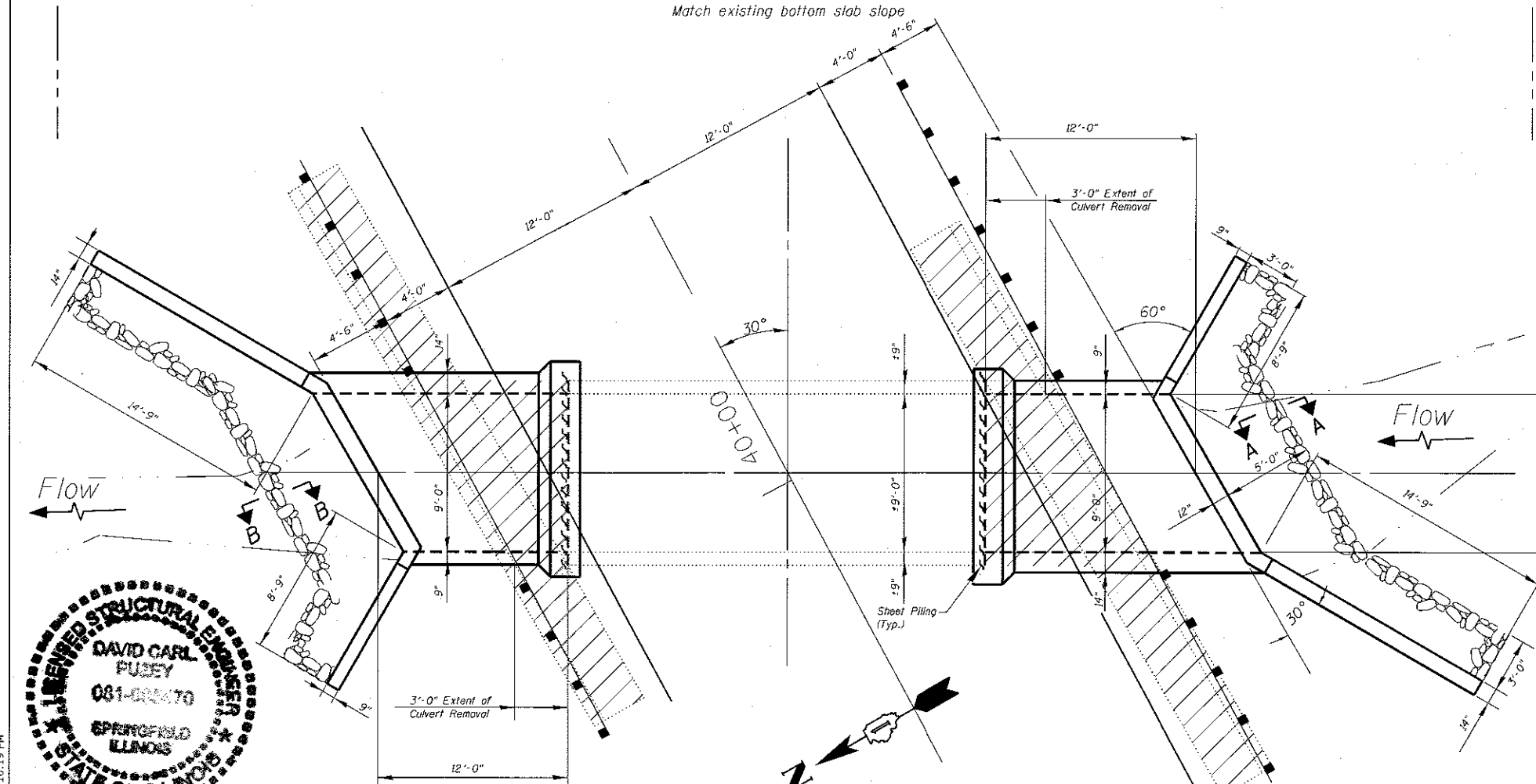
DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)



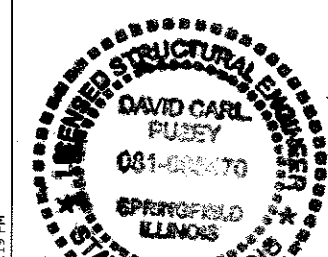
ELEVATION

Match existing bottom slab slope



PLAN

NOTE
 See sheet S4 of S6 for sections A-A and B-B.

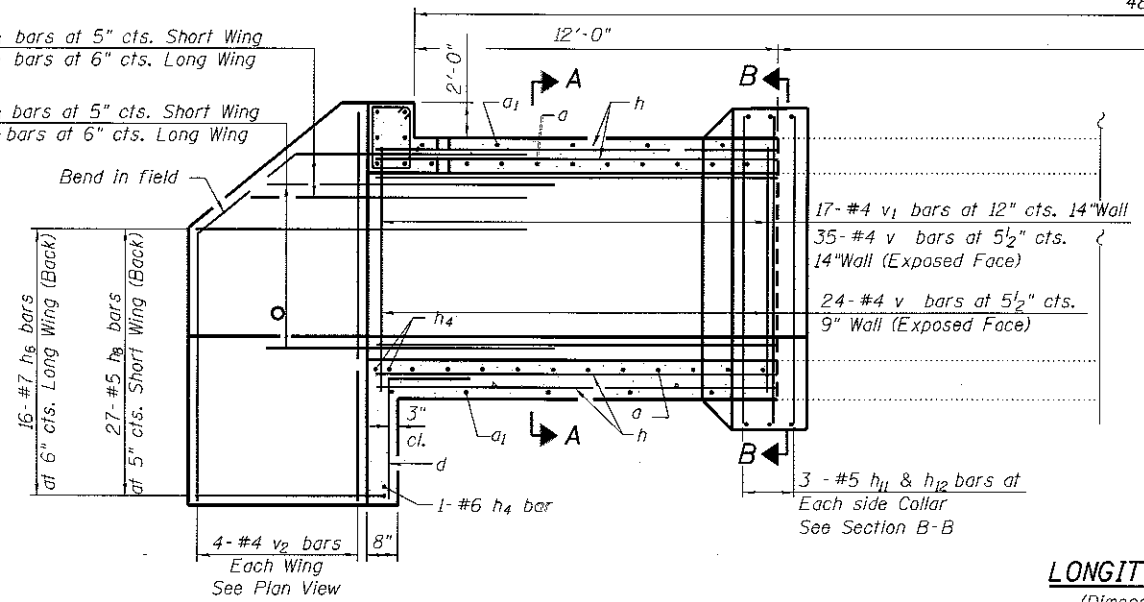


Expires 11/30/18

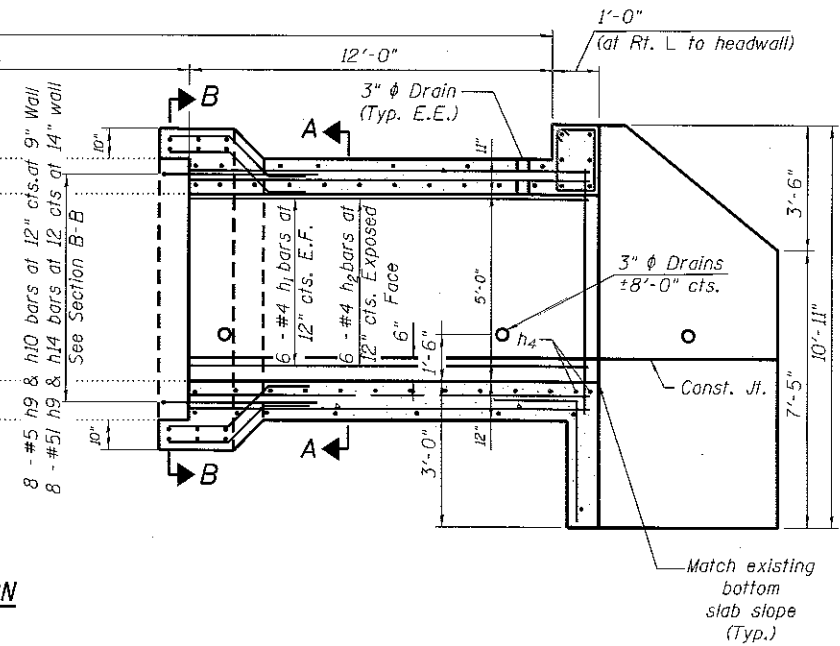
DESIGNED - RAD	EXAMINED - [Signature]	DATE - 3/27/18	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND ELEVATION		F.A.P. RTE. 337	SECTION 2015-083-B	COUNTY LAKE	TOTAL SHEETS 26	SHEET NO. 12
CHECKED - FFA	PASSED - [Signature]	REVISED	CONTRACT NO. 62B84		SHEET NO. 51 OF 56 SHEETS		ILLINOIS FED. AID PROJECT				

(Back)
3-#5 h₃ bars at 5" cts. Short Wing
3-#7 h₇ bars at 6" cts. Long Wing

(Front)
13-#5 h₃ bars at 5" cts. Short Wing
11-#7 h₇ bars at 6" cts. Long Wing



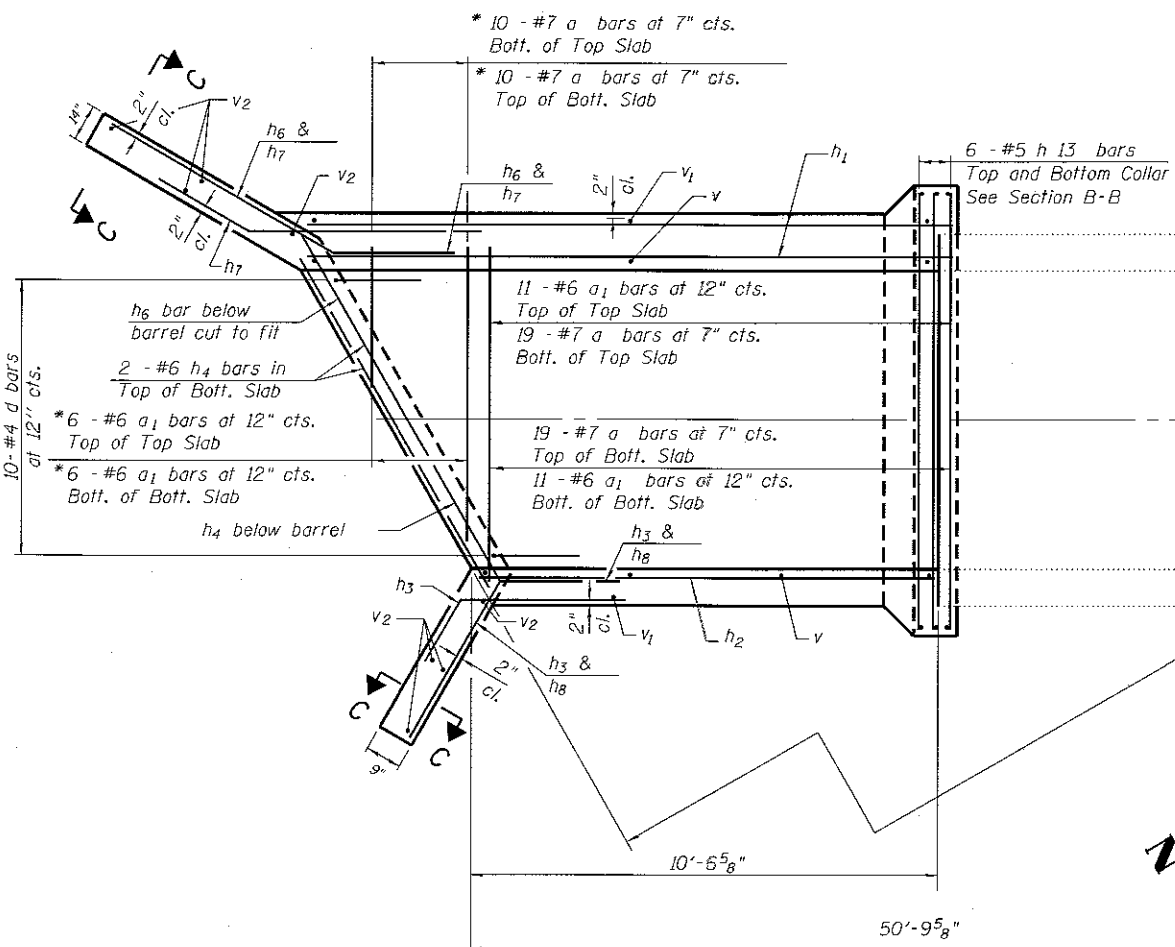
LONGITUDINAL SECTION
(Dimensions along Q Culvert)



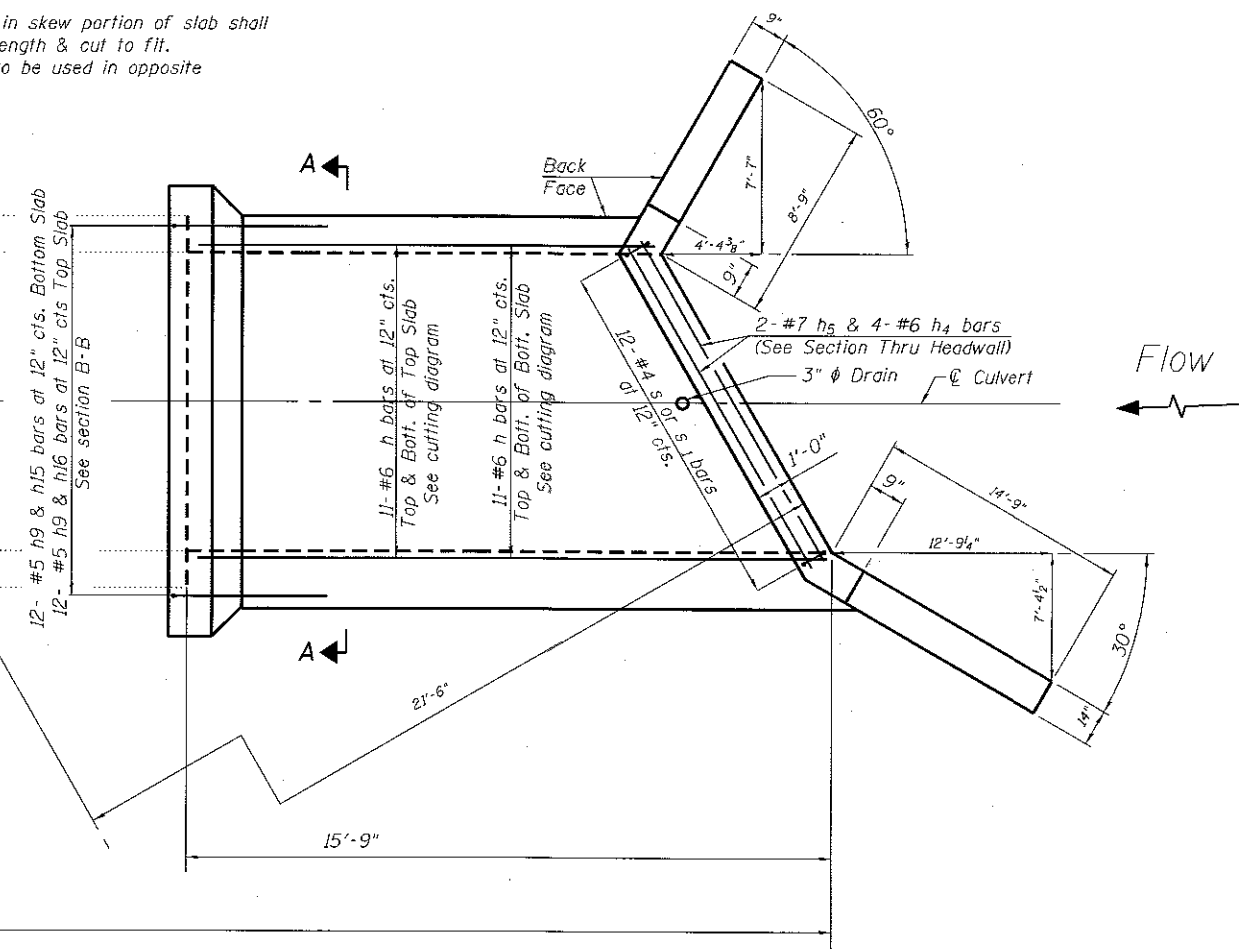
GENERAL NOTES

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 based at the unit price bid for the work.

The rockfill should be capped with 6 in. of CA7 and satisfy the standard specifications unless otherwise indicated in the special provisions. The cost of the capping materials should be included in the pay item for rockfill.



PLAN



SHOWING HEADWALL

SHOWING TOEWALL

Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
See Sheet S3 of S6 for Section A-A, B-B, C-C

3/27/2018 3:10:20 PM

DESIGNED -	RAD
CHECKED -	FEA
DRAWN -	
CHECKED -	

EXAMINED	T. A. D. D.
PASSED	M. C. K.

DATE -	3/27/18
REVISED	
REVISED	

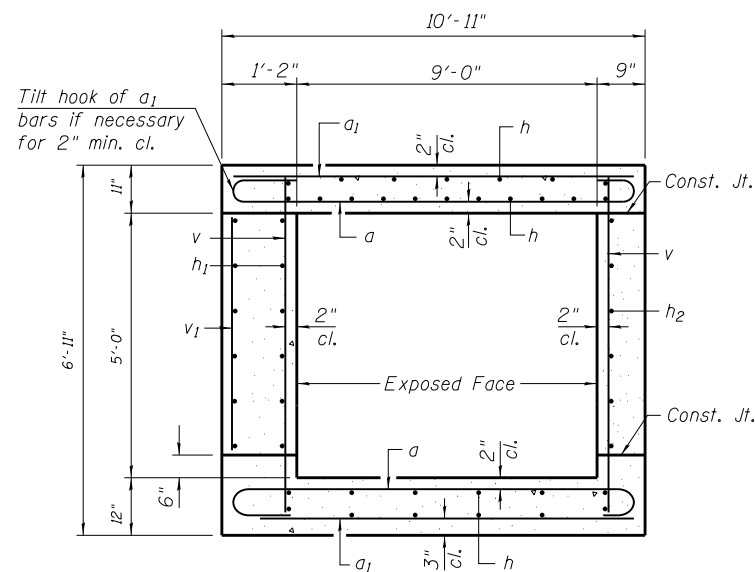
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
IL 22 AT DITCH W. OF IL 59 (SN 049-0590)
SHEET NO. S2 OF S6 SHEETS

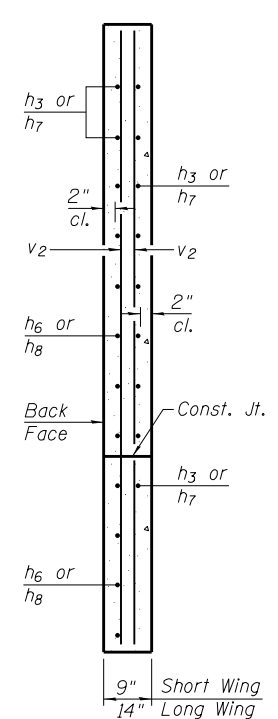
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	2015-083-B	LAKE	26	13
CONTRACT NO. 62B84				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

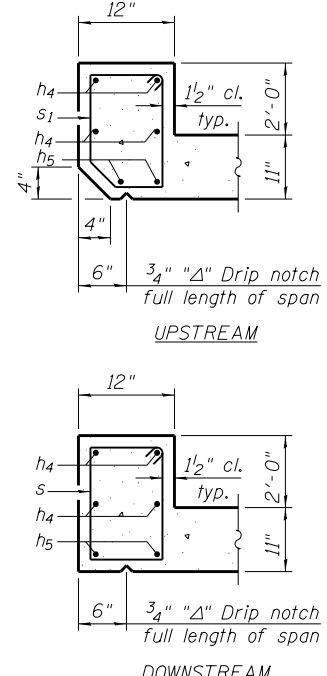
Bar	No.	Size	Length	Shape
a	96	#7	12'-3"	U
a ₁	56	#6	10'-7"	—
d	20	#4	4'-5"	L
h	44	#6	25'-8"	—
h ₁	24	#4	15'-5"	—
h ₂	12	#4	10'-3"	—
h ₃	32	#5	8'-0"	—
h ₄	14	#6	10'-10"	—
h ₅	4	#7	10'-10"	—
h ₆	32	#7	17'-4"	—
h ₇	28	#7	8'-0"	—
h ₈	54	#5	11'-9"	—
h ₉	80	#5	4'-5"	—
h ₁₀	16	#5	4'-6"	—
h ₁₁	12	#5	12'-11"	—
h ₁₂	12	#5	13'-9"	—
h ₁₃	24	#5	11'-10"	—
h ₁₄	16	#5	3'-11"	—
h ₁₅	24	#5	4'-2"	—
h ₁₆	24	#5	4'-4"	—
s	12	#4	7'-7"	□
s ₁	12	#4	7'-4 1/2"	□
v	118	#4	6'-6"	—
v ₁	34	#4	4'-2"	—
v ₂	16	#4	10'-6"	—
Concrete Box Culverts			Cu. Yd.	54
Reinforcement Bars			Pound	10,410



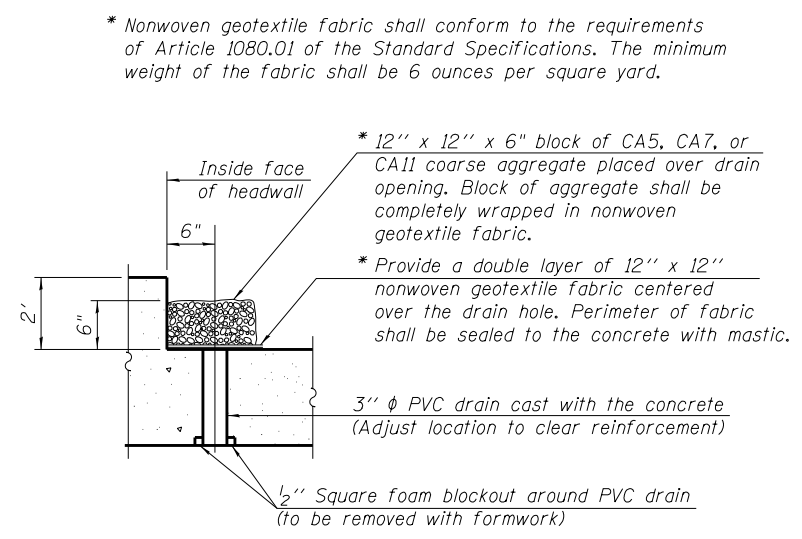
**SECTION THRU BARREL
SECTION A - A**



SECTION C-C

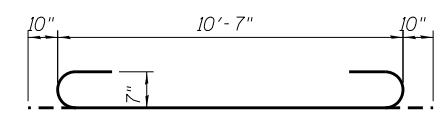


SECTION THRU HEADWALL

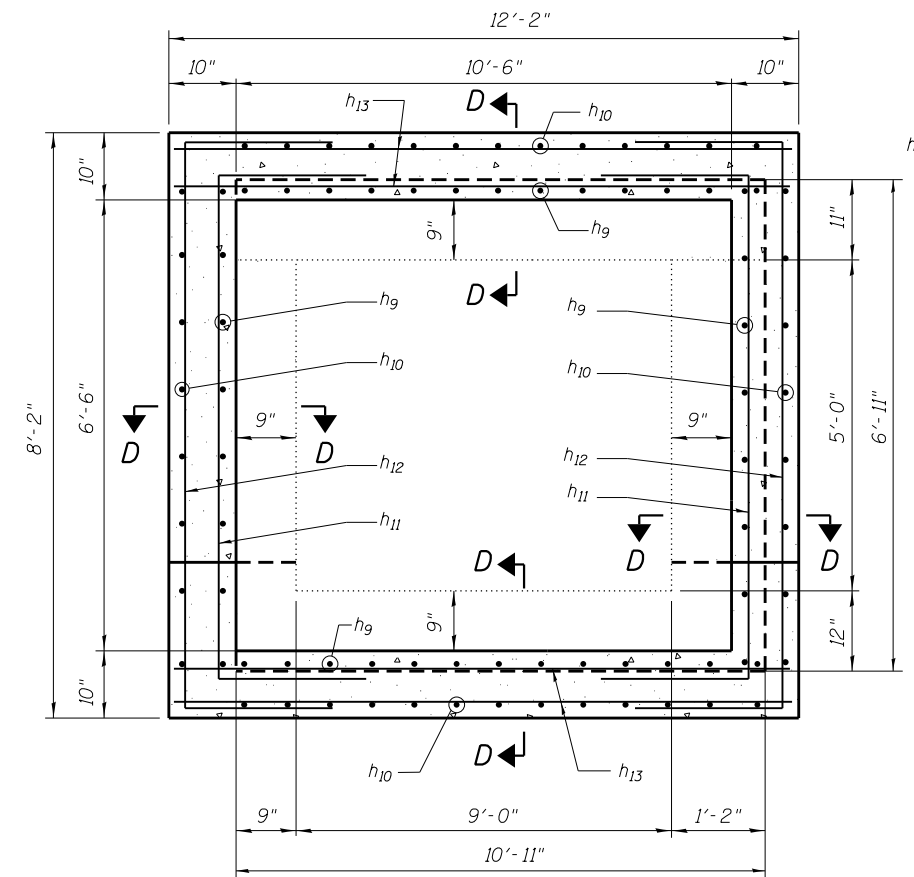


DRAIN DETAIL
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

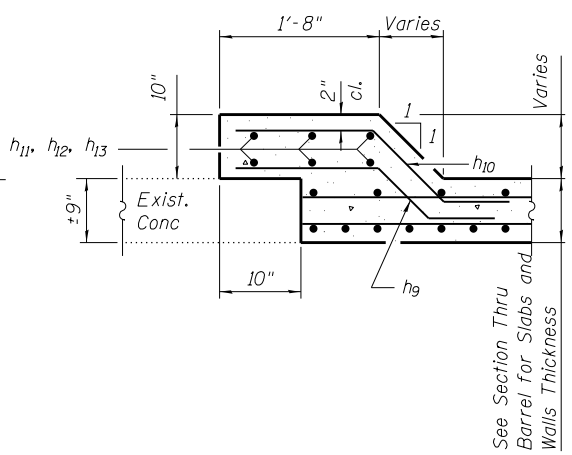
* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



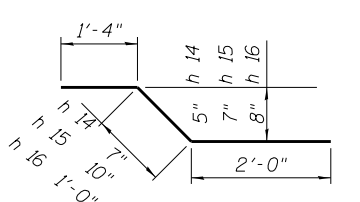
BAR a



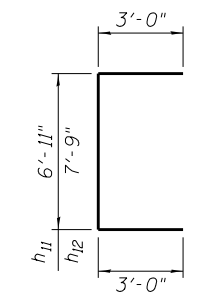
**SECTION THRU COLLAR
SECTION B - B**



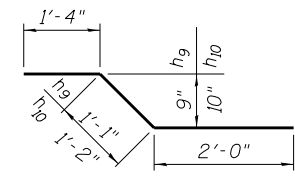
**SECTION THRU CONNECTION COLLAR
SECTION D-D**



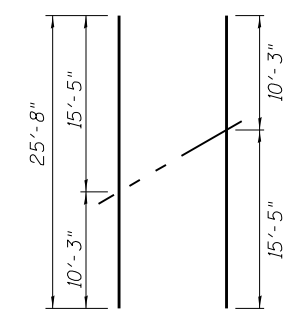
BAR h 14 & h 15 & h 16



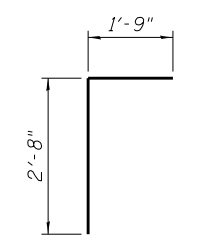
BAR h₁₁ & h₁₂



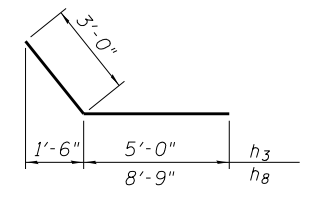
BAR h₉ & h₁₀



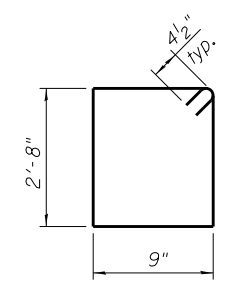
FIELD CUTTING DIAGRAM
Order h bars full length. Cut as shown and use remainder of bars in opposite face.



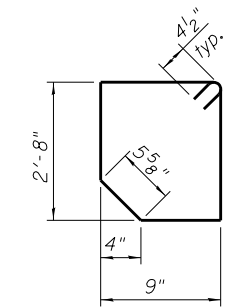
BAR d



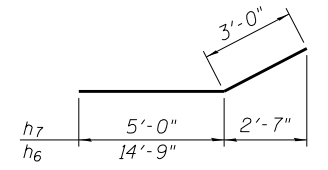
BARS h₃ & h₈



BAR s



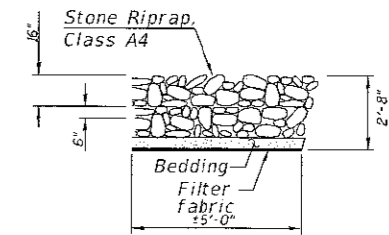
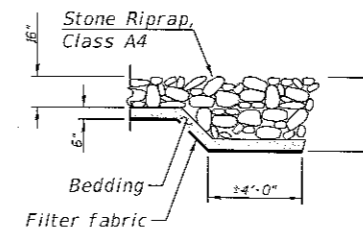
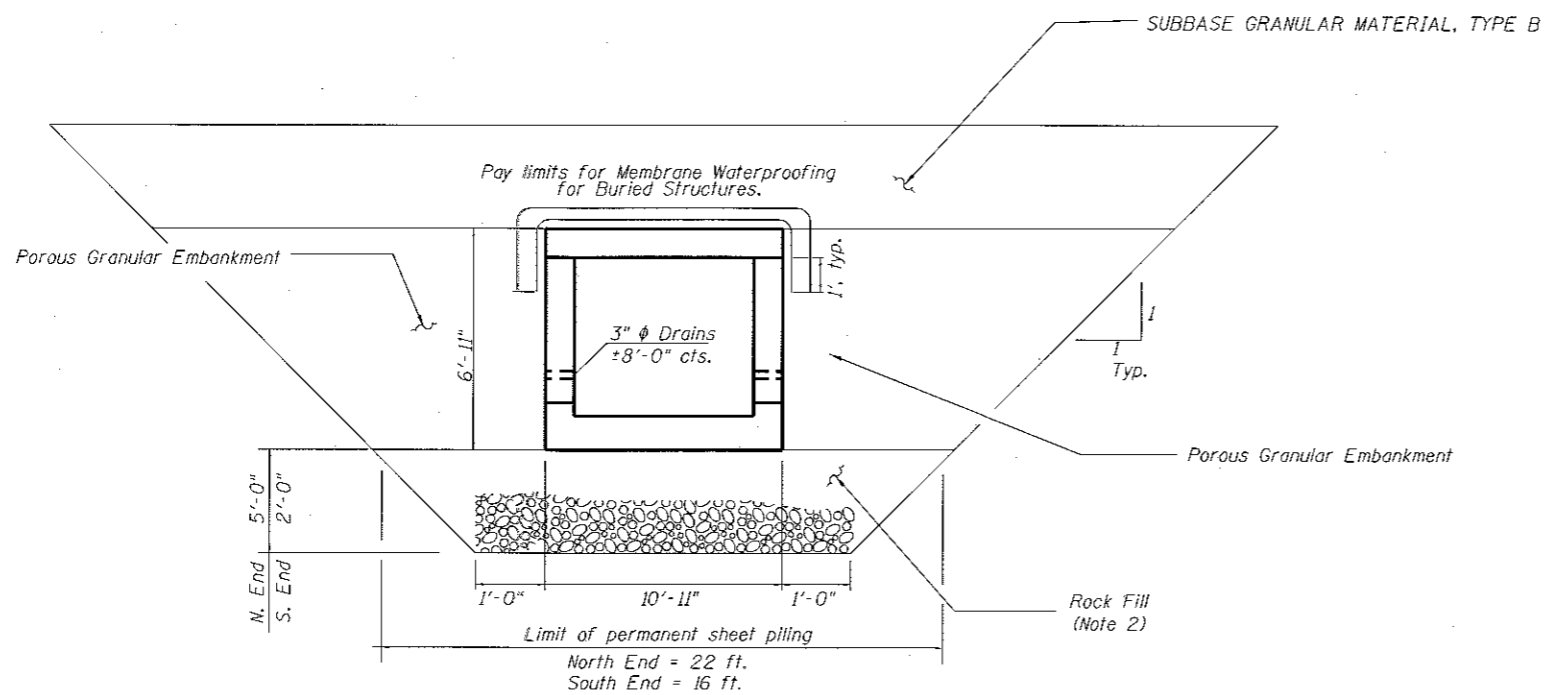
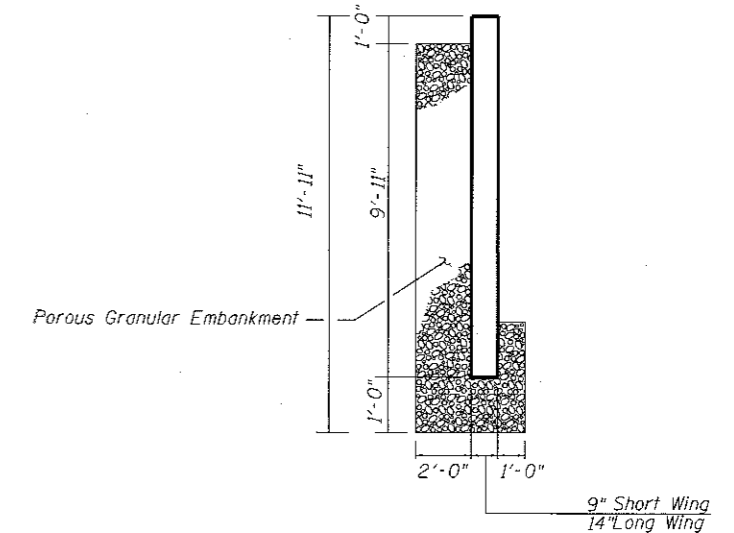
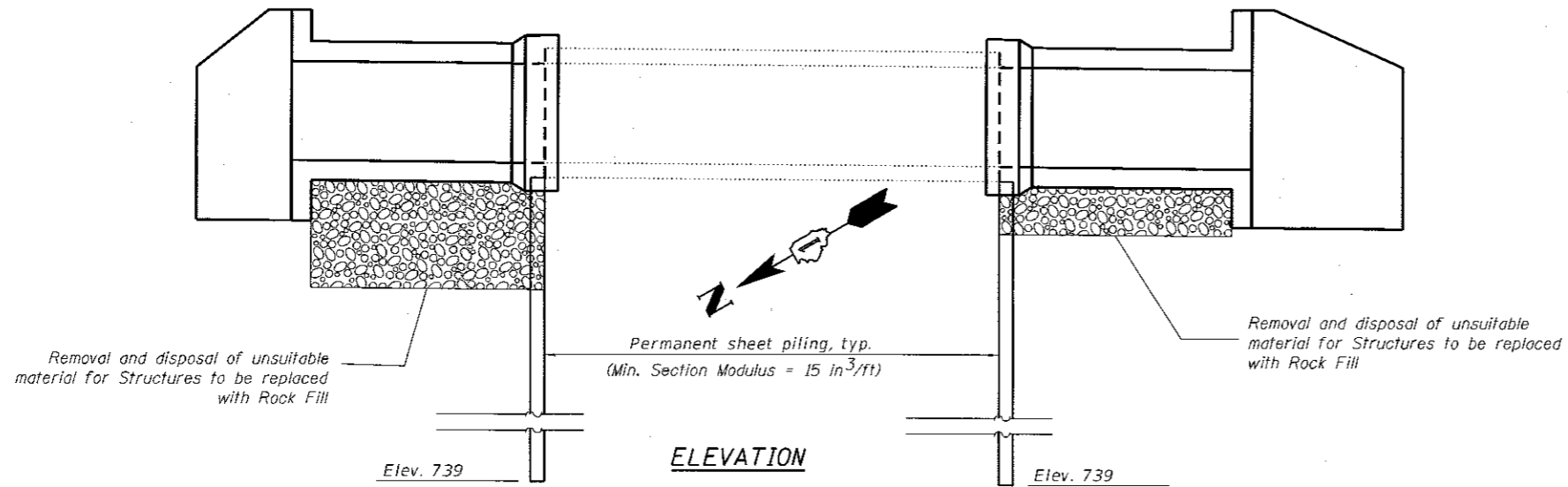
BAR s₁



BARS h₆ & h₇

2/9/2018 2:35:59 PM

DESIGNED -	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS IL 22 AT DITCH W. OF IL 59 (SN 049-0590)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	PASSED	REVISED			337	2015-083-B	LAKE	26	14	
DRAWN -		REVISED			CONTRACT NO. 62B84					
CHECKED -					SHEET NO. 53 OF 56 SHEETS					
			ILLINOIS FED. AID PROJECT							



SECTION THRU WINGWALLS

SECTION A-A

SECTION B-B

SECTION THRU BARREL

NOTES:

1. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
2. Nominal 5'-0" at North End and 2'-0" at South End undercut over the length of extension. Replace with Filter fabric and Rock Fill. Rock Fill Shall Utilize Gradation # 1, Option 2.

3/27/2018 3:10:25 PM

DESIGNED - RAA	EXAMINED - Tim A. DeLo	DATE - 3/27/18
CHECKED - FFA	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED - Carl Ruyter	REVISED -
CHECKED -	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
IL 22 AT DITCH W. OF IL 59 (SN 049-0590)

F.A.P. RTE. 337	SECTION 2015-083-B	COUNTY LAKE	TOTAL SHEETS 26	SHEET NO. 15
CONTRACT NO. 62BB4			ILLINOIS FED. AID PROJECT	

SHEET NO. 54 OF 56 SHEETS

SEECO CONSULTANTS, INC. SOIL BORING LOG										Page 1 Of 1									
ROUTE FAP 337 (Illinois Route 22) DESCRIPTION Proposed Box Culvert Improvements										Date 2/16/17									
SECTION 2015-083-B LOCATION At Station 40+00.5										Logged By DK									
COUNTY Lake										SEC TWP. RNG. PM 3rd									
STRUCTURE NO. 049-0590 (Exist.) (Prop.)																			
Drilling Method AASHTO T 206-09 Hammer Type Automatic Hammer																			
Boring No. B-01																			
Station 40+00.5																			
Offset 55'W & 7'N																			
Ground Surface El. +763.30 M.S.L.																			
Surf. Wat. El. _____																			
Groundwater Elev.: _____																			
When Drilling 13.5'																			
at Completion 13.5'																			
After Hrs _____																			
E L E V. (M.S.L.)																			
D E P T H (ft.)																			
S T R I C T I O N (blows)																			
U N D E R Q U A N T I T Y (TSF)																			
M O I S T U R E (%)																			
4" FILL: SILTY LOAM TOPSOIL, Dark Brown (A-6)										763.0	23.0								
FILL: CLAY, Dark Brown, Trace Roots, Trace Organic, Stiff, Wet (A-6)										759.8	24.0	3							
FILL: CLAY, Dark Brown and Brown, Trace Black, Medium, Trace Gravel, Moist (A-6)										757.3	25.0	6	1.48						
CLAY, Dark Brown, Trace Gravel, Medium, Moist (A-6)										754.8	26.0	4							
CLAY, Gray, Trace Organics and Fibers, Trace Sand, Medium to Soft, Wet to Moist (A-6)										749.8	27.0	6	1.57						
(Atterberg Limits Test) (LL=31, PL=18, PI=13)										747.3	28.0	4							
SAND, Gray, Coarse, Loose to Medium Dense, Saturated (A-3)										744.8	29.0	4							
End of Boring at 40 Feet										723.3	30.0	7	1.40						
Note:											31.0	5							
1. The ground surface elevation was provided by IDOT.											32.0	7							
2. The offset is measured from NW corner of the existing culvert.											33.0	9							
3. Ground was frozen in the upper 2.5 feet at the time of drilling.											34.0	8							
											35.0	11	3.92						
											36.0	10							
											37.0	13	4.00						
											38.0	18							
											39.0	11							
											40.0	15	4.00						
											41.0	20							
											42.0								
											43.0								
											44.0								
											45.0								

N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bulge S=Shear P=Penetrometer Test
 Split Spoon Sampler 24" with 140lb hammer falling 30" DRILL RIG: D-50
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

SEECO Job No. 10612G-14

SEECO CONSULTANTS, INC. SOIL BORING LOG										Page 1 Of 1								
ROUTE FAP 337 (Illinois Route 22) DESCRIPTION Proposed Box Culvert Improvements										Date 2/16/17								
SECTION 2015-083-B LOCATION At Station 40+00.5										Logged By DK								
COUNTY Lake										SEC TWP. RNG. PM 3rd								
STRUCTURE NO. 049-0590 (Exist.) (Prop.)																		
Drilling Method AASHTO T 206-09 Hammer Type Automatic Hammer																		
Boring No. B-02																		
Station 40+00.5																		
Offset 20'E & 5'N																		
Ground Surface El. +766.10 M.S.L.																		
Surf. Wat. El. _____																		
Groundwater Elev.: _____																		
When Drilling 18.5'																		
at Completion 18.5'																		
After Hrs _____																		
E L E V. (M.S.L.)																		
D E P T H (ft.)																		
S T R I C T I O N (blows)																		
U N D E R Q U A N T I T Y (TSF)																		
M O I S T U R E (%)																		
11.5" BITUMINOUS CONCRETE (A-6)										765.1	23.0							
SAND and GRAVEL BASE COURSE, Brown and Gray, Extremely Dense, Frozen (N=100 Blows / 5")										764.6	24.0	7						
12" P. C. CONCRETE SUBBASE										763.6	25.0	8	3.09					
FILL: SILTY CLAY LOAM, Brown and Dark Brown, Trace Gravel, Very Stiff, Moist (A-6)										760.1	26.0	5						
POSSIBLE FILL: CLAY, Brown and Dark Brown, Stiff, Moist (A-6)										759.1	27.0	6	2.75					
POSSIBLE FILL: CLAY, Dark Brown, Medium, Moist (A-6)										757.6	28.0	7						
ORGANIC CLAY, Dark Brown and Black, Medium, Wet (Possible Topsoil) (A-6)										757.1	29.0	5						
CLAY, Gray, Trace Organic, Medium, Moist (A-6)										755.1	30.0	7	1.50					
CLAY, Gray, Trace Fibers, with Some Gravel, Medium, Moist (A-6)										752.6	31.0	3						
(Atterberg Limits Test) (LL=28, PL=13, PI=15)										747.6	32.0	3	0.50					
CLAY, Gray, Trace Gravel, Very Stiff, Moist (A-6)										745.1	33.0	4						
End of Boring at 40 Feet										744.6	34.0	2						
Note:											35.0	3	0.50					
1. The ground surface elevation was provided by IDOT.											36.0	5						
2. The offset is measured from SE corner of the existing culvert.											37.0	9	3.30					
3. Ground was frozen in the upper 1.5 feet at the time of drilling.											38.0	10						
											39.0	5						
											40.0	9	2.17					
											41.0	9						
											42.0	7	3.30					
											43.0	8						
											44.0	7						
											45.0	8	1.73					

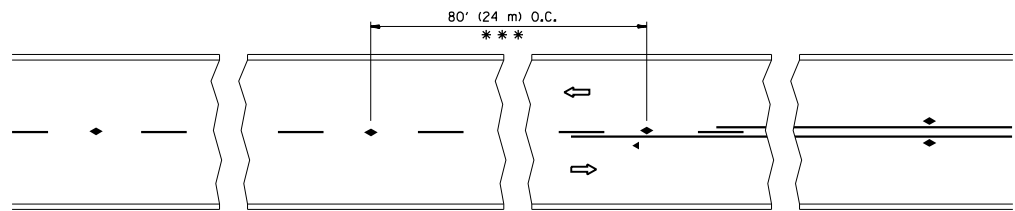
N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bulge S=Shear P=Penetrometer Test
 Split Spoon Sampler 24" with 140lb hammer falling 30" DRILL RIG: D-50
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

SEECO Job No. 10612G-14

2/9/2018 2:40:24 PM

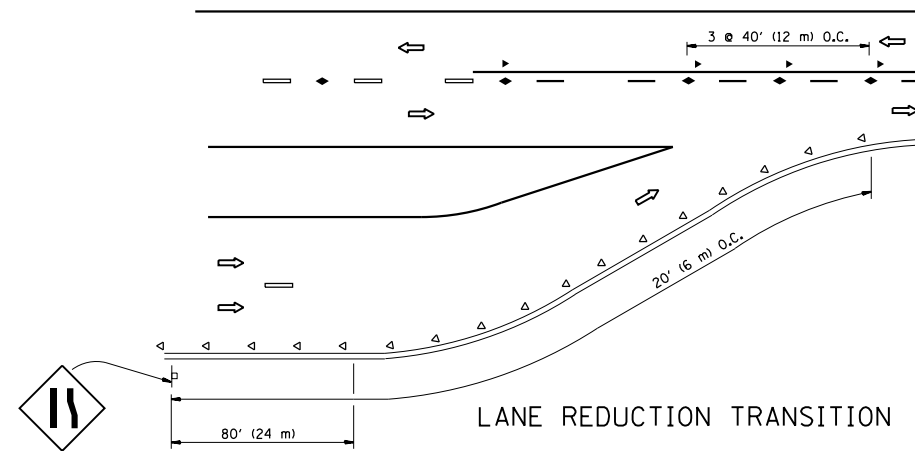
DESIGNED -	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS IL 22 AT DITCH W. OF IL 59 (SN 049-0590)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	ACTING ENGINEER OF STRUCTURAL SERVICES				337	2015-083-B	LAKE	26	17	
DRAWN -	PASSED	REVISED			CONTRACT NO. 62B84					
CHECKED -	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			SHEET NO. 56 OF 56 SHEETS					

ILLINOIS FED. AID PROJECT

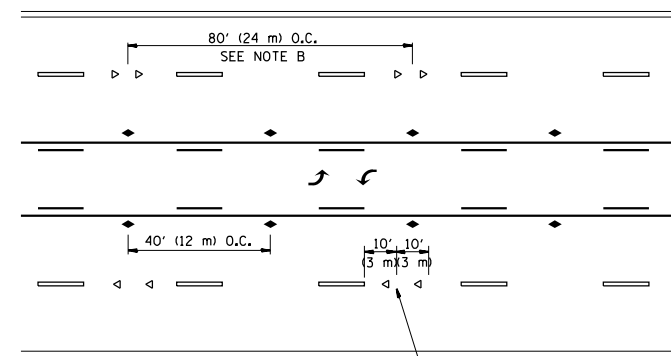


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

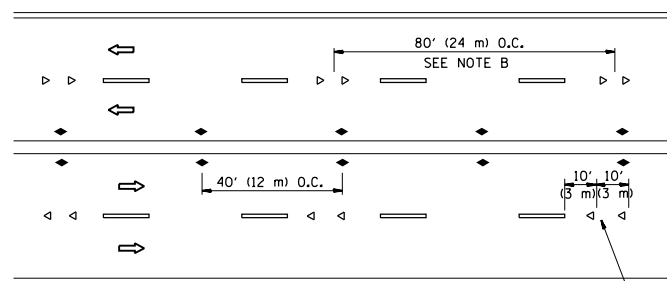
TWO-LANE/TWO-WAY



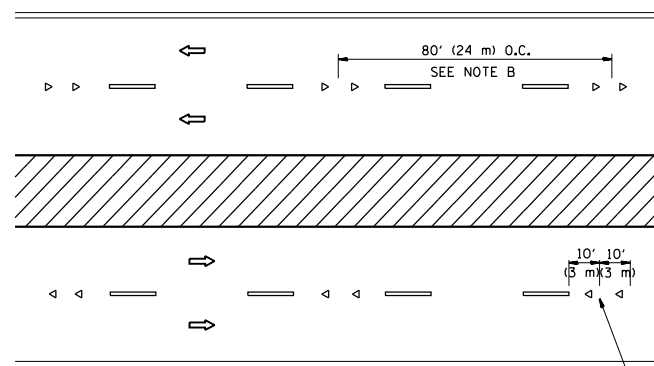
LANE REDUCTION TRANSITION



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

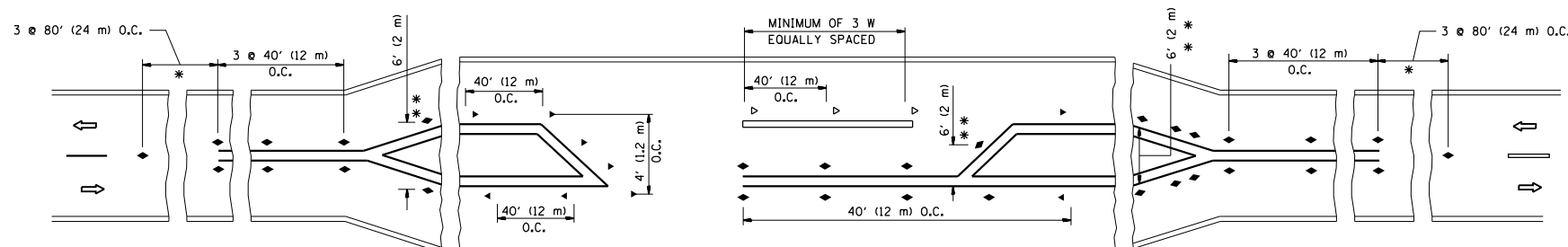
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
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.

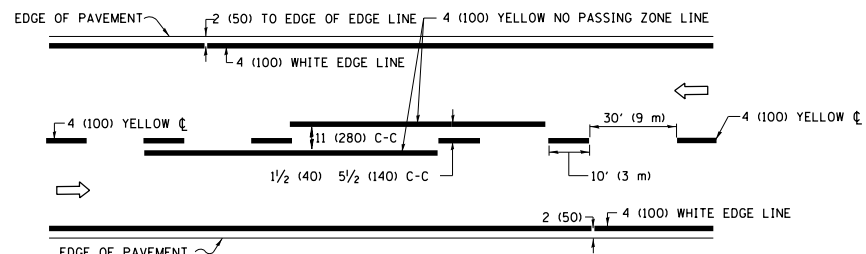
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	PLOT DATE = 2/9/2018	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

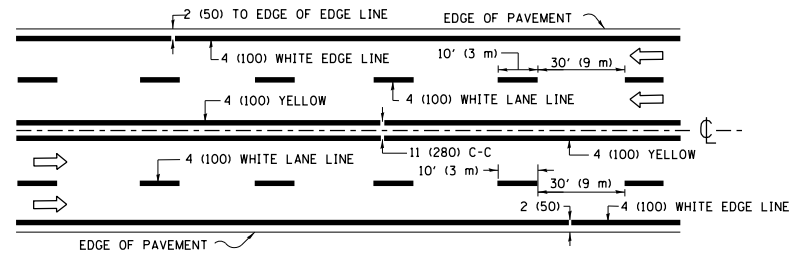
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

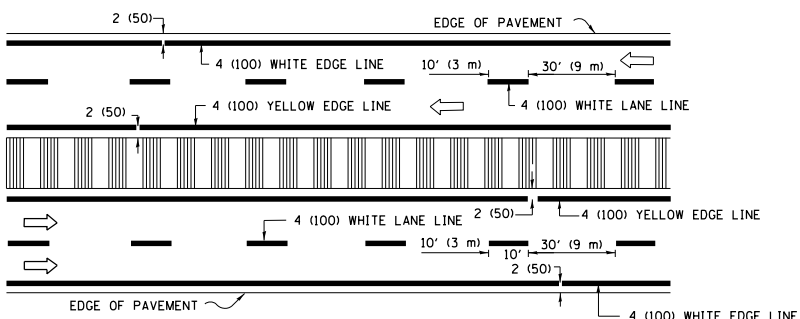
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			26	19
TC-11			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

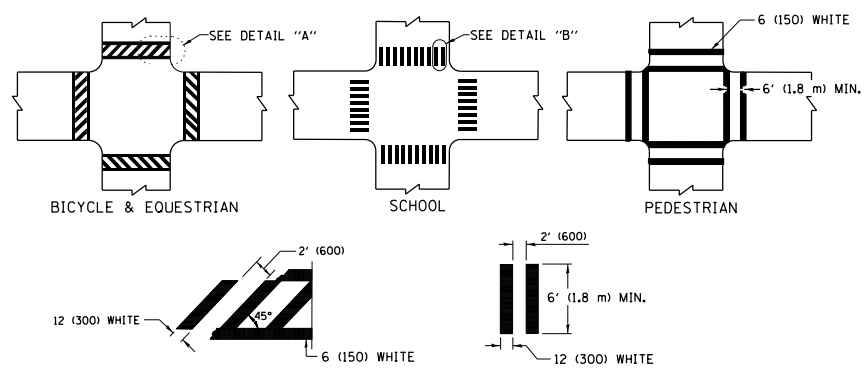


MULTI-LANE UNDIVIDED



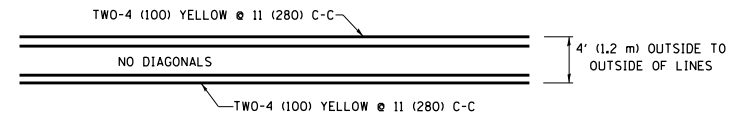
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

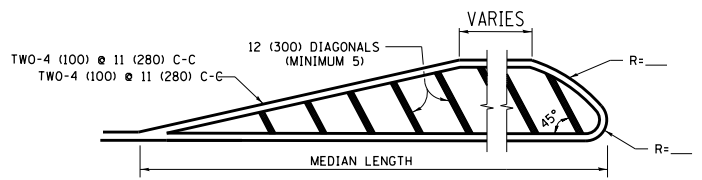


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

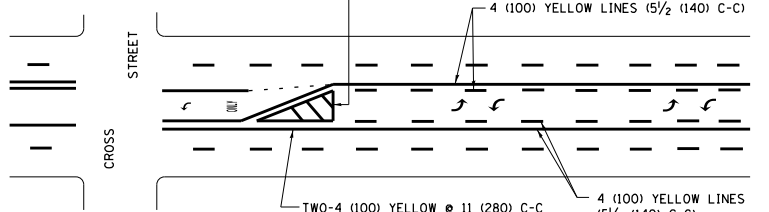


4' (1.2 m) WIDE MEDIANS ONLY

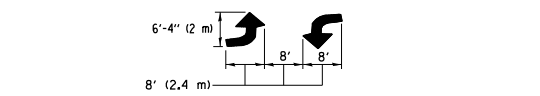


MEDIANS OVER 4' (1.2 m) WIDE

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))



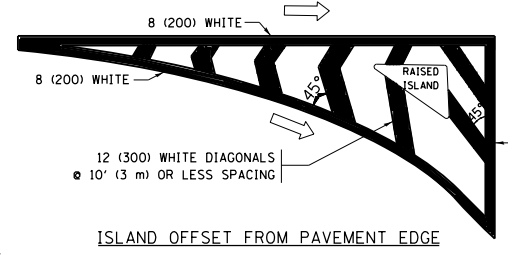
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



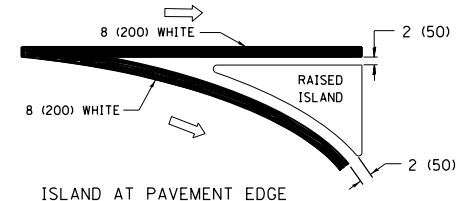
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

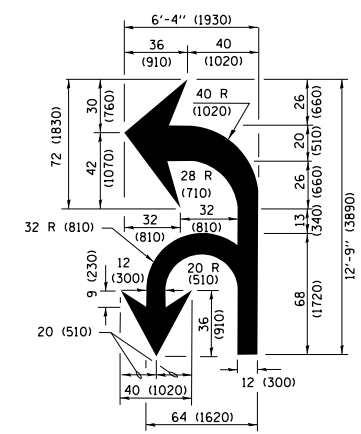
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



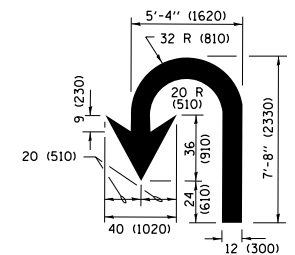
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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 =	USER NAME = KAINIP	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
pw\1\084EBIDINTEG\11\inois.gov\PIWID01\Documents\DOT Offices\District 1\Projects\0116\Drawings\Design\Diststd.dgn			REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 2/9/2018	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16




STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS






SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13		26	20
ILLINOIS FED. AID PROJECT			CONTRACT NO.	





ROUTE MARKERS

-  FOR U.S. ROUTES
M1-40-2424
-  FOR ILLINOIS ROUTES
M1-50-2424
-  R.R., UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

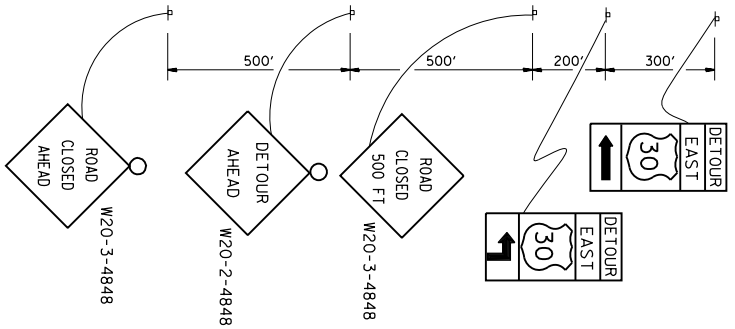
ARROWS SIGNS

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

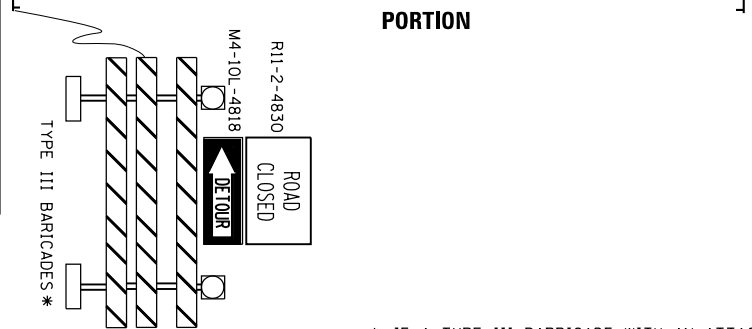
CARDINAL DIRECTION & DETOUR SIGNS

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

STATE ROUTE

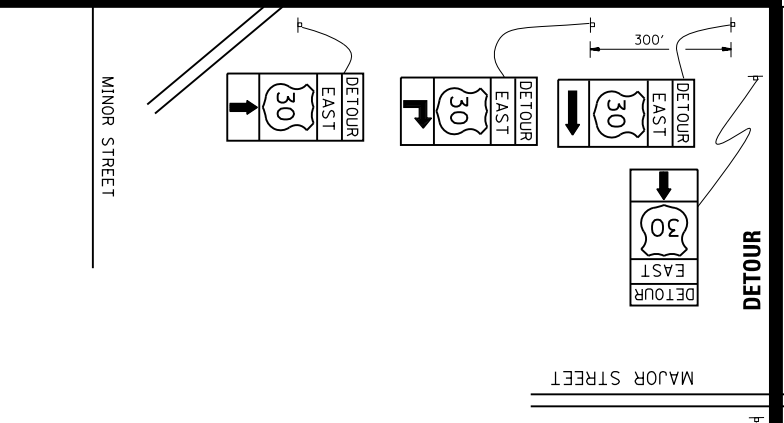


COMPLETELY CLOSED PORTION

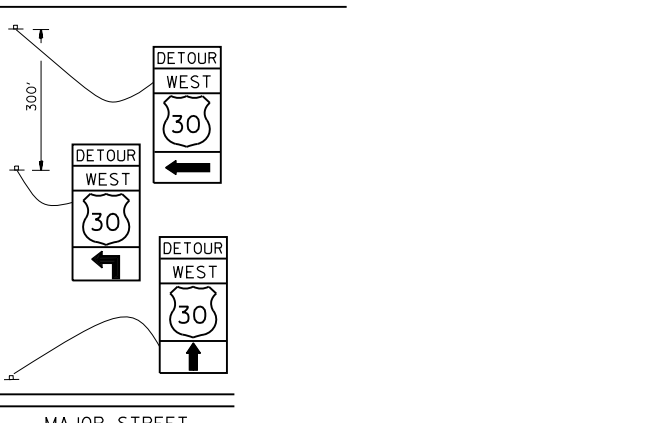


* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

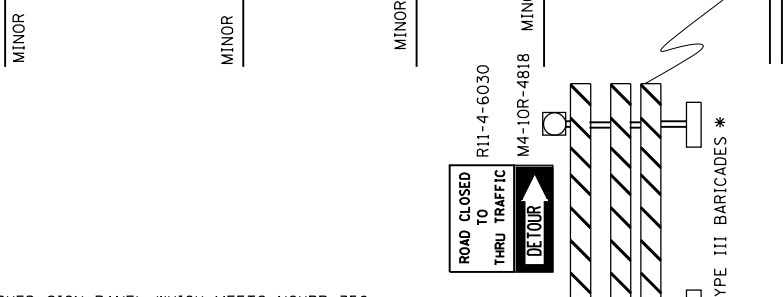
DETOUR



DETOUR



PARTIALLY CLOSED PORTION



STATE ROUTE



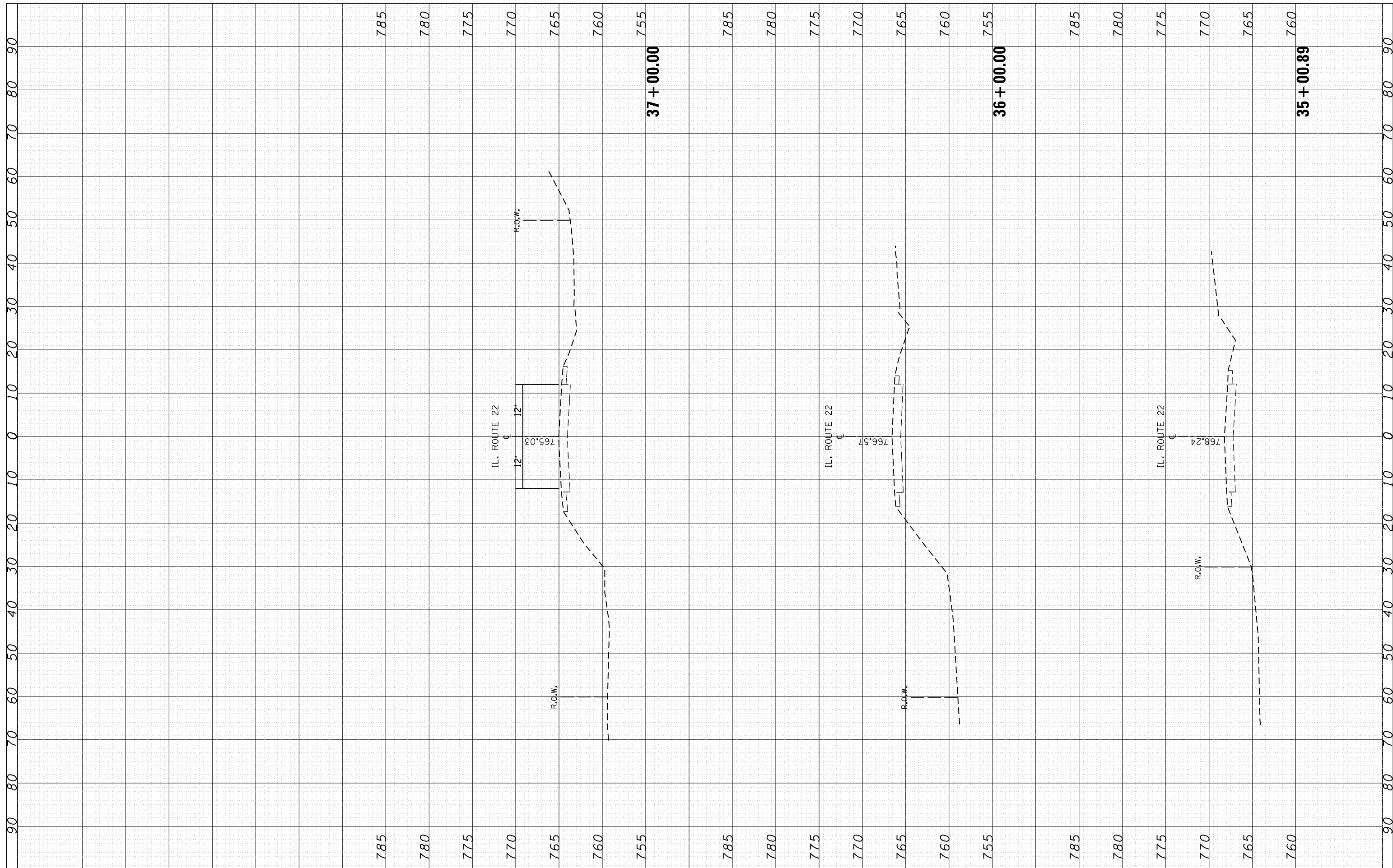
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		DATE -	REVISED -
			REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FOR CLOSING STATE HIGHWAYS		337	2015-083-B	LAKE	26	21
SCALE: NONE		TC-21		CONTRACT NO. 62B84		
SHEET NO. 1 OF 1 SHEETS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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USER NAME = KAINIP
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 2/9/2018

DESIGNED -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

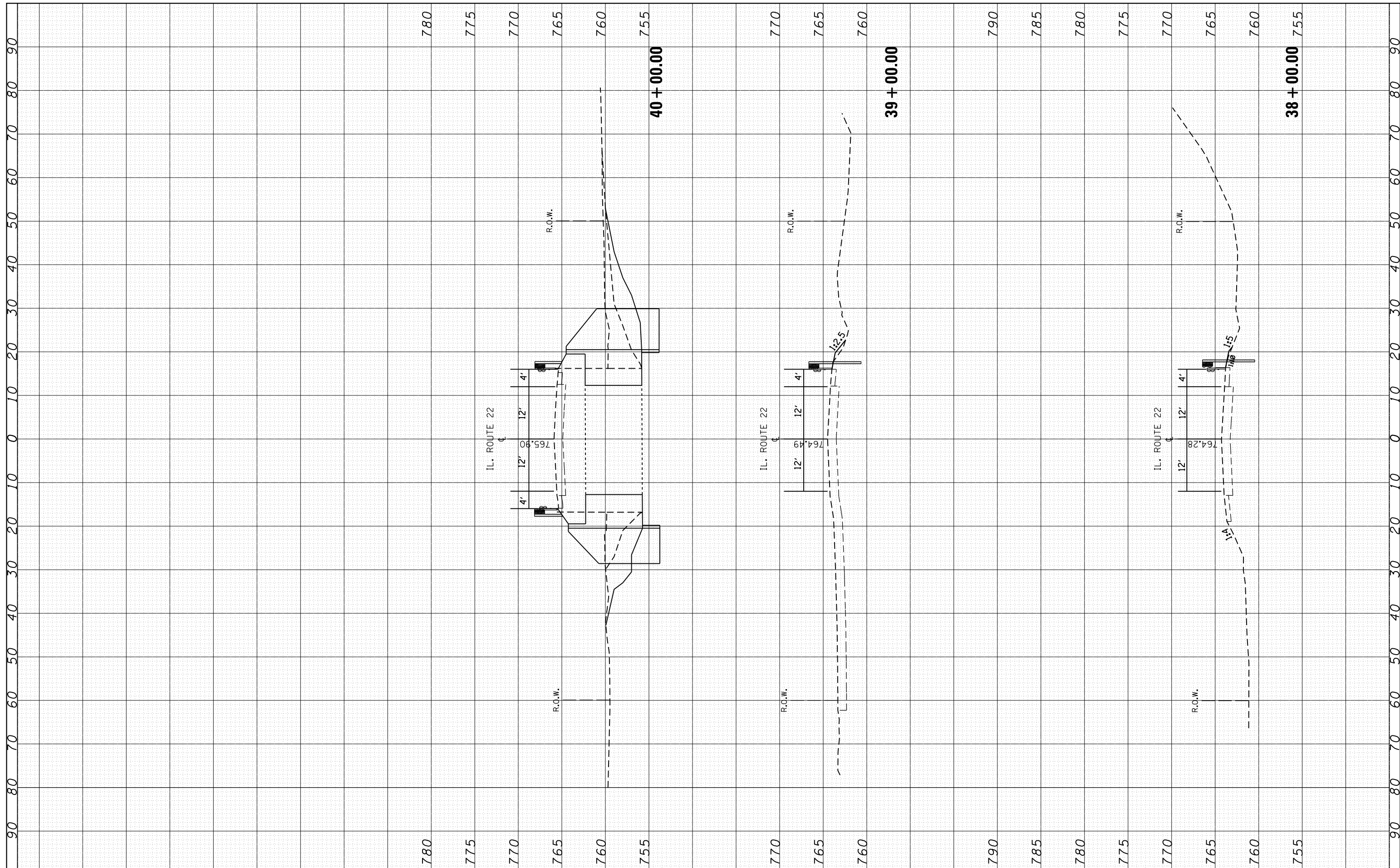
**CROSS SECTIONS
 IL. ROUTE 22 OVER DITCH WEST OF IL. ROUTE 59**

SCALE: SHEET OF SHEETS STA. 35+00.89 TO STA. 37+00.00

F.A.P. RTE. 337	SECTION 2015-083-B	COUNTY LAKE	TOTAL SHEETS 26	SHEET NO. 22
CONTRACT NO. 62B84			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

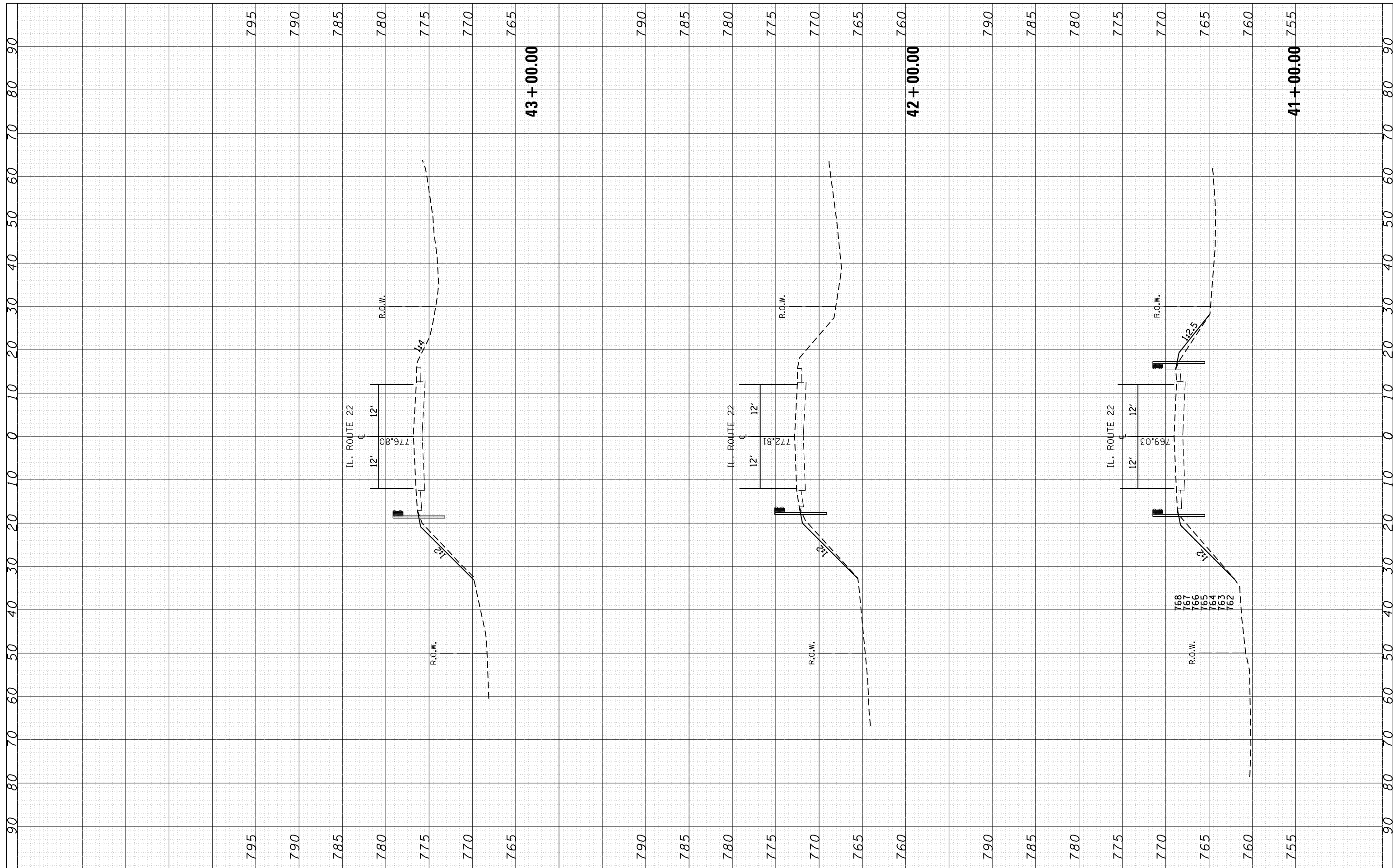
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME =	USER NAME = KAINIP	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\D116216\CADD\Drawings\DH6216-sht-xssht-IL22.dgn		DRAWN	REVISED -		IL. ROUTE 22 OVER DITCH WEST OF IL. ROUTE 59				337	2015-083-B	LAKE	26	23
Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 38+00.00	TO STA. 40+00.00	CONTRACT NO. 62B84		
	PLOT DATE = 2/9/2018	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =	USER NAME = KAINIP	DESIGNED -	REVISED -
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		DATE -	REVISED -

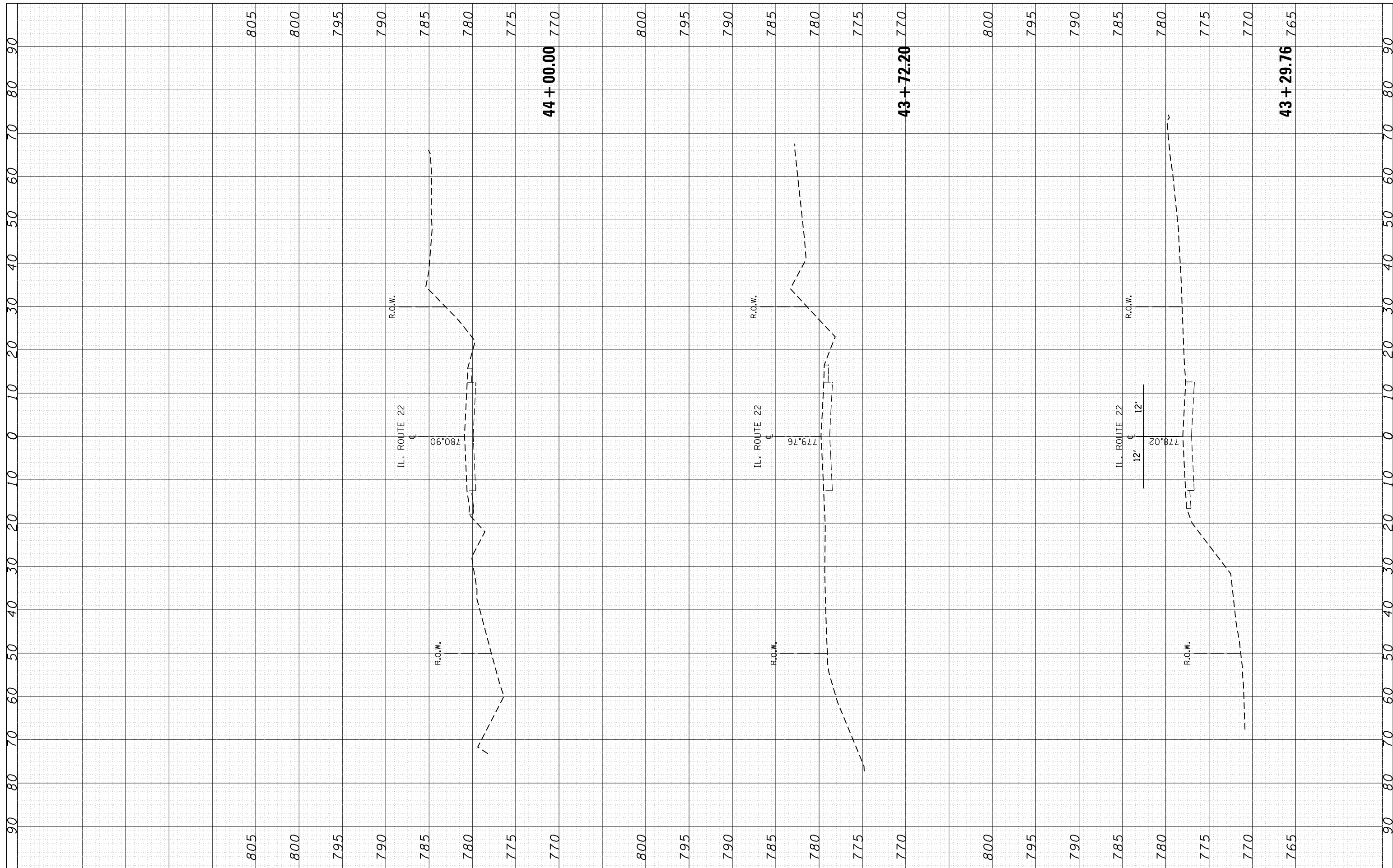
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
IL. ROUTE 22 OVER DITCH WEST OF IL. ROUTE 59			
SCALE:	SHEET	OF	SHEETS
			STA. 41+00.00 TO STA. 43+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	2015-083-B	LAKE	26	24
CONTRACT NO. 62B84				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



FILE NAME =	USER NAME = KAINIP	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
Default	PLOT DATE = 2/9/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

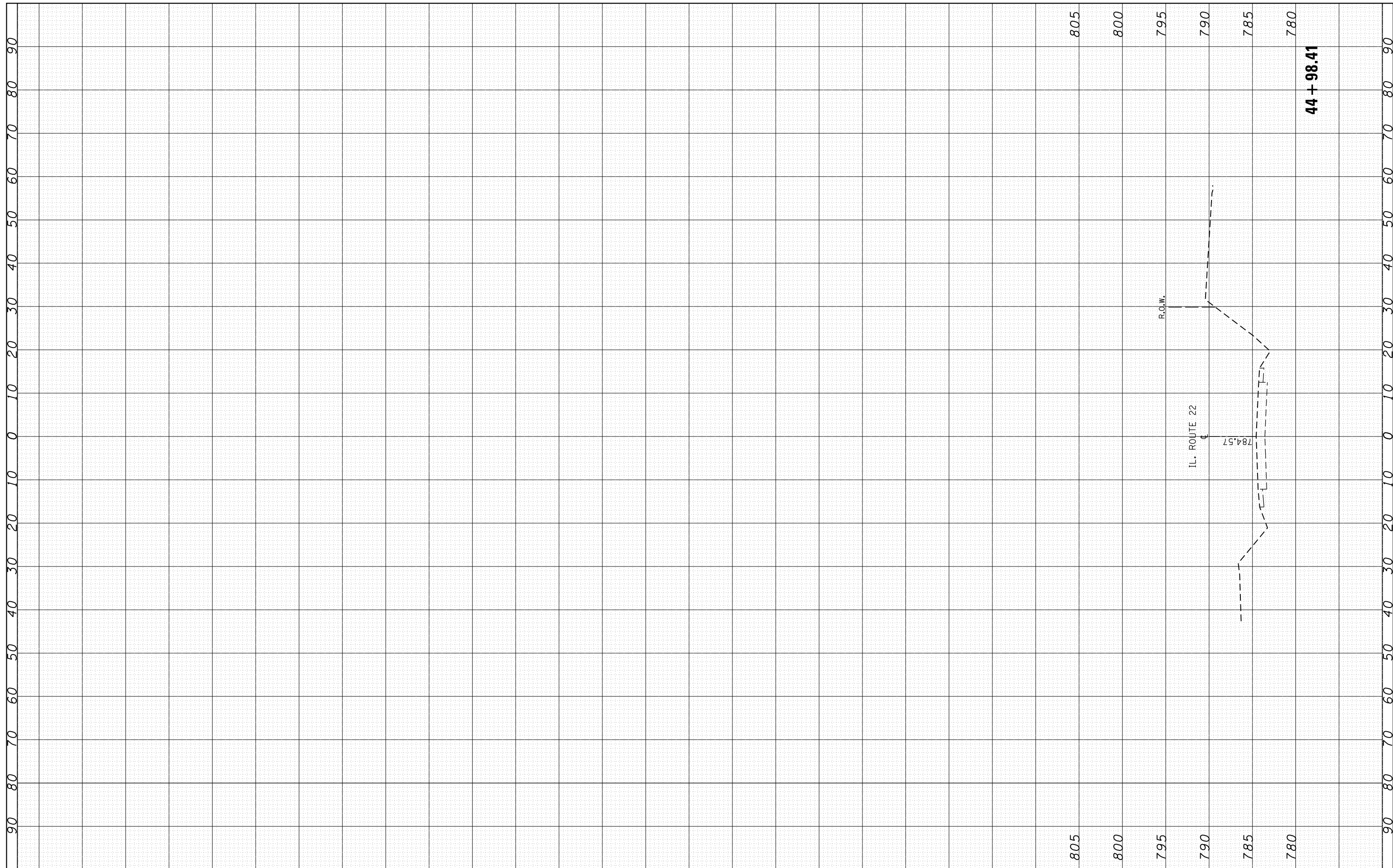
**CROSS SECTIONS
IL. ROUTE 22 OVER DITCH WEST OF IL. ROUTE 59**

SCALE: SHEET OF SHEETS STA. 43+29.76 TO STA. 44+00.00

F.A.P. RTE. 337	SECTION 2015-083-B	COUNTY LAKE	TOTAL SHEETS 26	SHEET NO. 25
CONTRACT NO. 62B84			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



FILE NAME =	USER NAME = KAINIP	DESIGNED -	REVISED -
p:\11\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\D116216\CADD\Drawn\DH6216-shr-xssht-IL22.dgn		DRAWN	
Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/9/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
IL. ROUTE 22 OVER DITCH WEST OF IL. ROUTE 59			
SCALE:	SHEET	OF	SHEETS
			STA. 44+98.41 TO STA. 44+98.41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	2015-083-B	LAKE	26	26
CONTRACT NO. 62B84			ILLINOIS FED. AID PROJECT	