

06-14-2019 LETTING ITEM 015

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED HIGHWAY PLANS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0	2018-110-A&I	DUPAGE	28	1
CONTRACT NO. 62H37				

• US 20: 021 / IL 50: 338

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**SITE 1: – FAP 338: IL 59 OVER DITCH (0.3 MI SOUTH OF MACK RD.) – WING WALL REPAIRS**

**SITE 2: – FAP 021: US 20 EB RIGHT SHOULDER OF GARDEN AVE. DITCH REGRADING AND AGGREGATE SHOULDER**

**SECTION 2018-110-A&I**

**DUPAGE COUNTY  
C-91-241-19**

**TRAFFIC DATA:**

**IL 59**

EXISTING ADT = 40,100 (2017)  
POSTED SPEED = 45 MPH

**US 20 (LAKE STREET)**

EXISTING ADT = 26,400 (2017)  
POSTED SPEED = 40 MPH

**FUNCTIONAL CLASSIFICATION**

OTHER PRINCIPAL ARTERIAL  
(IL 59 & US 20)

SITE 1: PROJECT IS LOCATED IN THE CITY OF WARRENVILLE

SITE 2: PROJECT IS LOCATED IN THE VILLAGE OF ROSELLE



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.

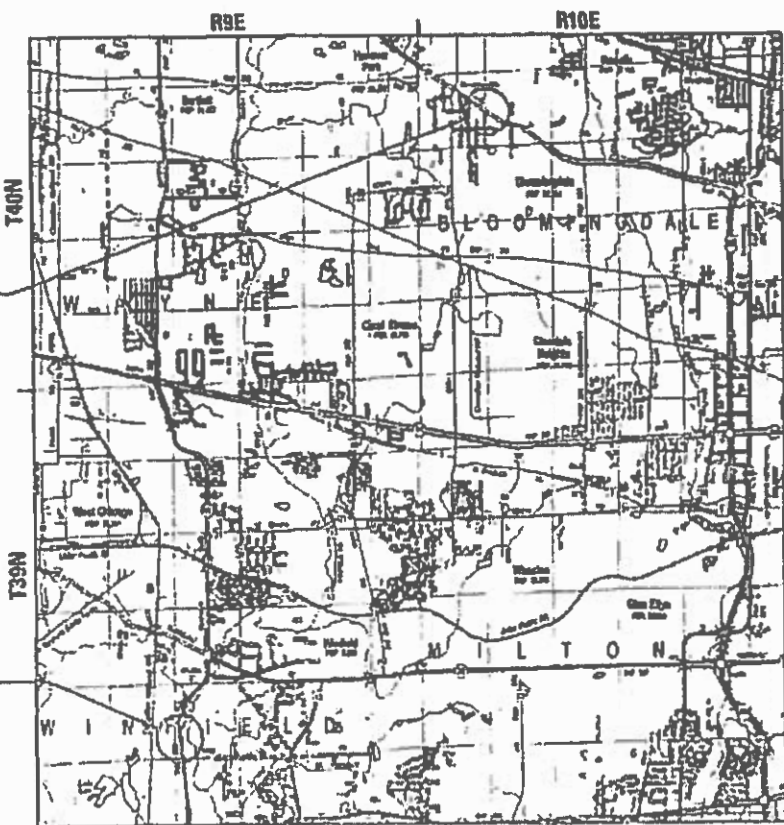
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

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

CONTRACT NO. 62H37

SITE 2: US 20 AT GARDEN AVE.  
STA. 11+25.00 TO STA. 14+00.00

SITE 1: IL 59 OVER DITCH  
EXISTING S.N. 022-0503  
STA. 499+97.78



**LOCATION MAP**  
APPROX SCALE: 1" = 0.80 MILE  
GROSS LENGTH OF PROJECT = 2300 FEET = 0.436 MILE  
NET LENGTH OF SITE 1 = 15000 FEET = 0.284 MILE  
NET LENGTH OF SITE 2 = 600 FEET = 0.152 MILE

DUROG ENGINEERING  
SHEETS 01-13 & 20-30

Jameel Ahmed  
DATE: 3/19/2019  
L. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 8/30/2019

DUROG ENGINEERING  
SHEETS 14-19

Keith W. Benth  
DATE: 3/19/2019  
L. LICENSED PROFESSIONAL  
LICENSE EXPIRES ON 8/30/2020



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 20, 2019

Anthony J. Douglas, P.E.  
REGIONAL ENGINEER

May 10, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2019

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6	ALIGNMENT, TIES AND BENCHMARKS
7	IL ROUTE 59 EXISTING AND PROPOSED TYPICALS
8	IL ROUTE 59 PLAN & PAVEMENT MARKING
9	IL ROUTE 59 STAGING TYPICAL
10	IL ROUTE 59 STAGING PLAN - STAGE 1
11	IL ROUTE 59 STAGING PLAN - STAGE 2
12	IL ROUTE 59 EROSION CONTROL PLAN
13	GENERAL PLAN SN 022-0503
14	TEMPORARY SHEET PILING & TEMPORARY SOIL RETENTION SYSTEM - SN 022-0503
15	CONCRETE REMOVAL AND REPAIRS - SN 022-0503
16	CULVERT DETAILS - I SN 022-0503
17	CULVERT DETAILS - II SN 022-0503
18	BORING LOGS - SN 022-0503
19	US ROUTE 20 EXISTING AND PROPOSED TYPICALS
20	US ROUTE 20 PLAN AND PROFILE & PAVEMENT MARKING
21	US ROUTE 20 STAGING TYPICAL
22	US ROUTE 20 STAGING PLAN
23	US ROUTE 20 EROSION CONTROL PLAN
24	US ROUTE 20 CROSS SECTIONS
25	US ROUTE 20 CROSS SECTIONS
26	TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTION, AND DRIVEWAYS
27	TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
28	TC-22 ARTERIAL ROAD INFORMATION SIGN
29	TC-26 DRIVEWAY ENTRANCE SIGNING

## HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
542411	SLOPED METAL END SECTIONS FOR PIPE CULVERTS 15" (375mm) THRU 60" (1500mm) DIA.
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OF MOVING OPERATION, FOR SPEEDS ≤40 MPH
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901-08	TRAFFIC CONTROL DEVICES

## GENERAL NOTES:

1. THESE PLANS HAVE BEEN PREPARED FROM INFORMATION ACQUIRED FROM EXISTING PLANS AND NOTES RECEIVED FROM IDOT FIELD MAINTENANCE ENGINEERS.
2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
3. FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) OR 811 FOR LOCATIONS OF THE EXISTING UTILITIES.
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. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
6. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
7. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING CONSTRUCTION.
9. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV FOR ARTERIALS A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
10. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, IDOT'S AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
11. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. ACCESS SHALL BE PROVIDED AT ALL TIMES TO PROPERTIES ABUTTING THE PROPOSED IMPROVEMENT.
13. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE 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.
14. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.
15. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) PERMIT THAT WILL BE SECURED BY 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 IN-STREAM WILR 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 WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.

## SITE 2 (US ROUTE 20)

(DRIVEWAY PAVEMENT PATCH NOTES)

1. EXISTING ASPHALT PAVEMENT AND CONCRETE CURB AND GUTTER SHALL BE SAWCUT FULL DEPTH AT THE LIMITS OF REMOVAL. COST OF SAWCUT SHALL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE REMOVAL PAY ITEMS.
2. SEE SCHEDULE OF QUANTITIES SHEETS FOR LIMITS OF REMOVAL AND REPLACEMENT ITEMS.
3. CONTRACTOR SHALL COORDINATE PARTIAL OR FULL CLOSURE OF DRIVEWAY WITH PROPERTY OWNER AND ENGINEER.

## COMMITMENTS

NONE

PLAN	DATE
SURVEYED PLOTTED ALIGNMENT CHECKED GRADE CHECKED STRUCTURE NOTATIONS CURVD CADD FILE NAME	BY
NOTE BOOK NO.	

PROFILE	DATE
SURVEYED PLOTTED GRADES CHECKED STRUCTURE NOTATIONS CURVD	BY
NOTE BOOK NO.	

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\* US 20: 021 / IL 59: 338



USER NAME = TMohammed	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/29/2019	DATE -	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS  
AND GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2018-110-A I	DUPAGE	29	2
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNED		
	CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES		
	CHECKED		
	STRUCTURE		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BOX CULVERT
				0004	0013 S.N. 022-0503
20800150	TRENCH BACKFILL	CU YD	13	13	
21101615	TOPSOIL FURNISH AND PLACE,4"	SQ YD	715	432	283
21400100	GRADING AND SHAPING DITCHES	FOOT	185	185	
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20	10	10
28000305	TEMPORARY DITCH CHECKS	FOOT	56	56	
28000400	PERIMETER EROSION BARRIER	FOOT	160	40	120
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	715	432	283
35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	17	17	
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	6	6	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	23	23	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	16	16	

\* SPECIALTY ITEMS



USER NAME = MOKrent	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-110-A I		29	3
			CONTRACT NO. 62H37	
			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE URBAN	
				CONSTRUCTION CODE	
				US 20	IL 59
				ROADWAY 0004	BOX CULVERT 0013 S.N. 022-0503
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	23	23	
50102400	CONCRETE REMOVAL	CU YD	21.2		21.2
50105220	PIPE CULVERT REMOVAL	FOOT	56	56	
50200100	STRUCTURE EXCAVATION	CU YD	33		33
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3220		3220
52200010	TEMPORARY SHEET PILING	SQ FT	909		909
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	286		286
54002020	EXPANSION BOLTS 3/4 INCH	EACH	22		22
54003000	CONCRETE BOX CULVERTS	CU YD	21.4		21.4
542C0220	PIPE CULVERTS, CLASS C, TYPE 1 15"	FOOT	90	90	
54260415	SLOPED METAL END SECTION, STANDARD 542411, 15", 1:4	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	6		6
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	16	16	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	85	85	

\*= SPECIALTY ITEM

\* SPECIALTY ITEMS



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PLOT DATE = 4/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

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			CONTRACT NO. 62H37	
		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	ALIGNED	
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NOTE BOOK NO.	GRADES CHECKED	
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				US 20	IL 59
				ROADWAY	BOX CULVERT
				0004	0013
					S.N. 022-0503
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1	1
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	0.5	0.5
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	12	6	6
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	0.5	0.5
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	2	2
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	2355	800	1555
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	6		6
X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.1		0.1
X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	715	432	283
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5	0.5
Z0004518	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 5"	SQ YD	23	23	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	8		8
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	128	64	64

\* SPECIALTY ITEMS



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PLOT DATE = 4/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

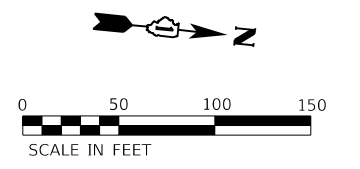
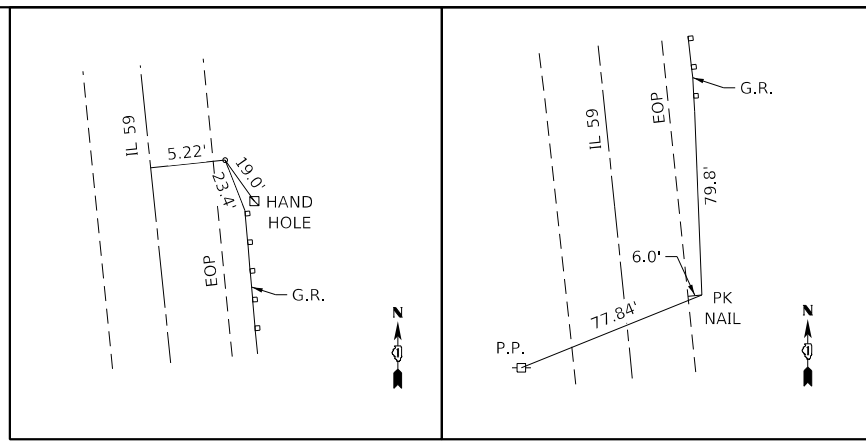
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-110-A I	DUPAGE	29	5
			CONTRACT NO. 62H37	
		ILLINOIS	FED. AID PROJECT	

**IL ROUTE 59**

BM1 X-CUT ON N.E. BOLT OF FIRE HYDRANT  
(ARROW POINTS TO) W. SIDE OF IL 59 @  
RES # 2340 IS 610'-620' RT ±STA. 498+00  
ELEV. 722.738

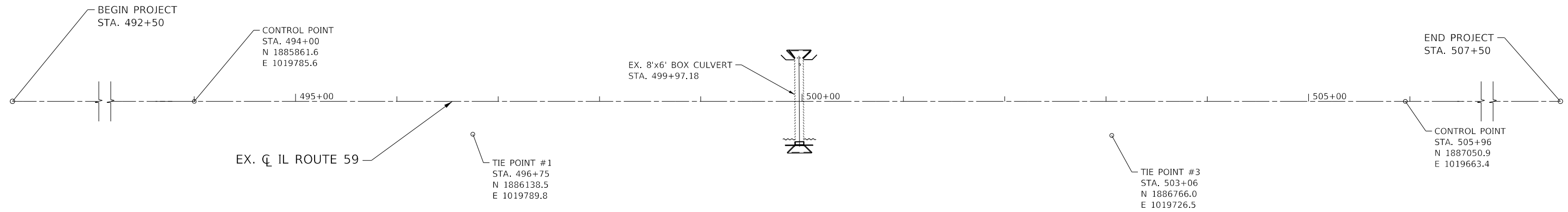
BM2 X-CUT ON S.E. BOLT OF FIRE HYDRANT  
(ARROW POINTS TO) W. SIDE OF IL 59 @  
RES # 2341 IS 500' RT ±STA. 505+00  
ELEV. 725.475



**STA. 496+75, 32' RT**  
(TIE POINT #1)

**STA. 503+06, 34' RT**  
(TIE POINT #3)

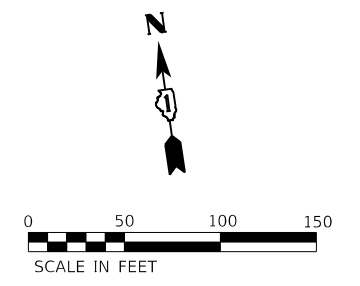
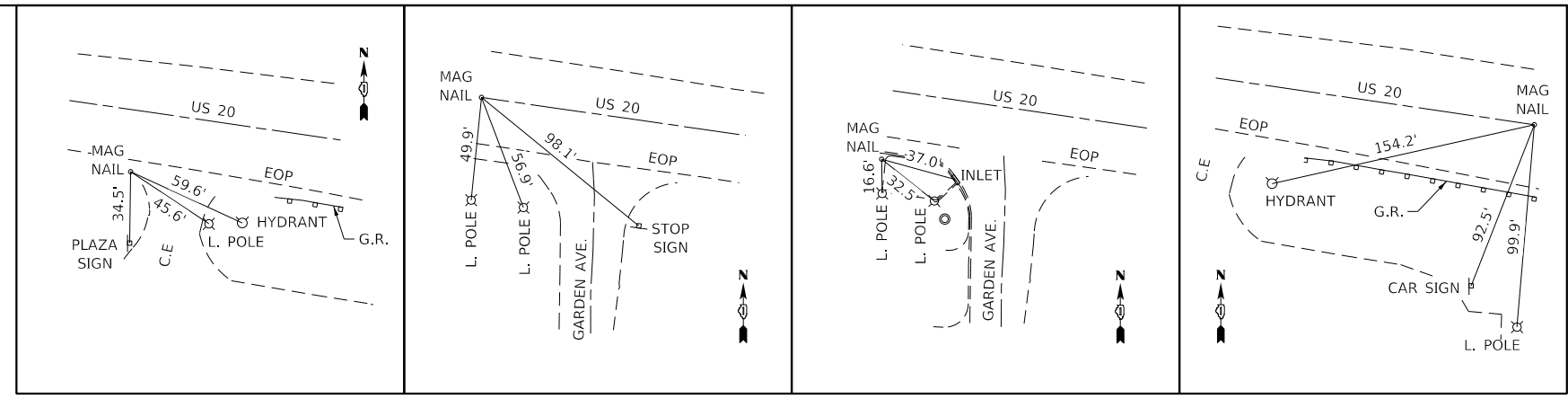
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NOTE BOOK NO.	
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PLOTTED	
GRADES CHECKED	
NOTE BOOK NO.	
STRUCTURE NOTATIONS CHECKED	

BM1 CHISLED SQUARE IN TOP OF CURB IN  
CORNER OF PARKING LOT IN THE S.E.  
CORNER OF US 20 & GARDEN AVE.  
ELEV. 802.62

BM2 "X" IN S.W. BOLT OF FIRE HYDRANT ON THE  
S. SIDE OF US 20 ±250' E. OF GARDEN AVE.  
ELEV. 793.64

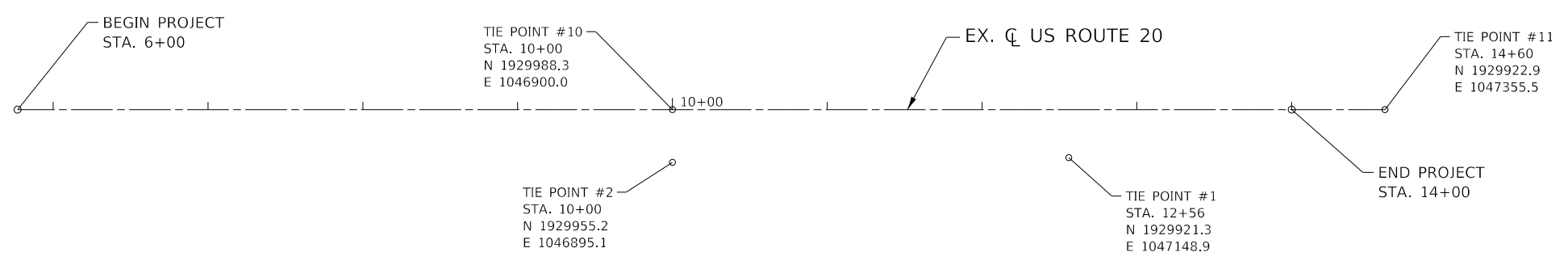


**STA. 12+56, 31' RT**  
(TIE POINT #1)

**POT STA. 10+00**  
(TIE POINT #10)

**STA. 10+00, 34' RT**  
(TIE POINT #2)

**POT STA. 14+60**  
(TIE POINT #11)



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USER NAME = TMohammed	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

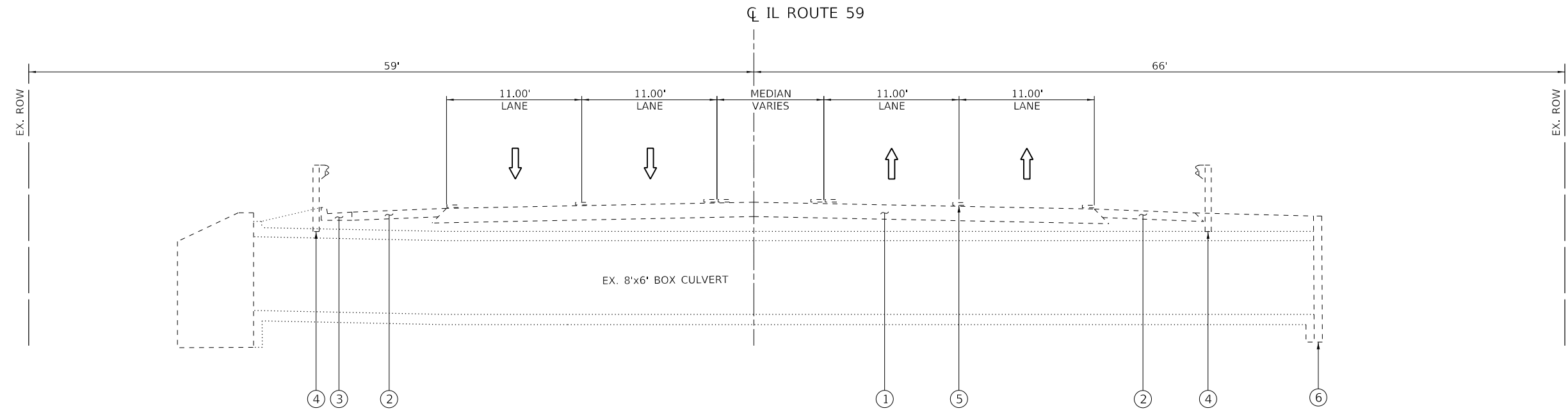
<b>ALIGNMENT, TIES AND BENCHMARKS</b>			
SCALE: 1" = 50'	SHEET	OF	SHEETS
STA.	TO	STA.	

* US 20: 021 / IL 59: 338				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2018-110-A I	DUPAGE	29	6
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

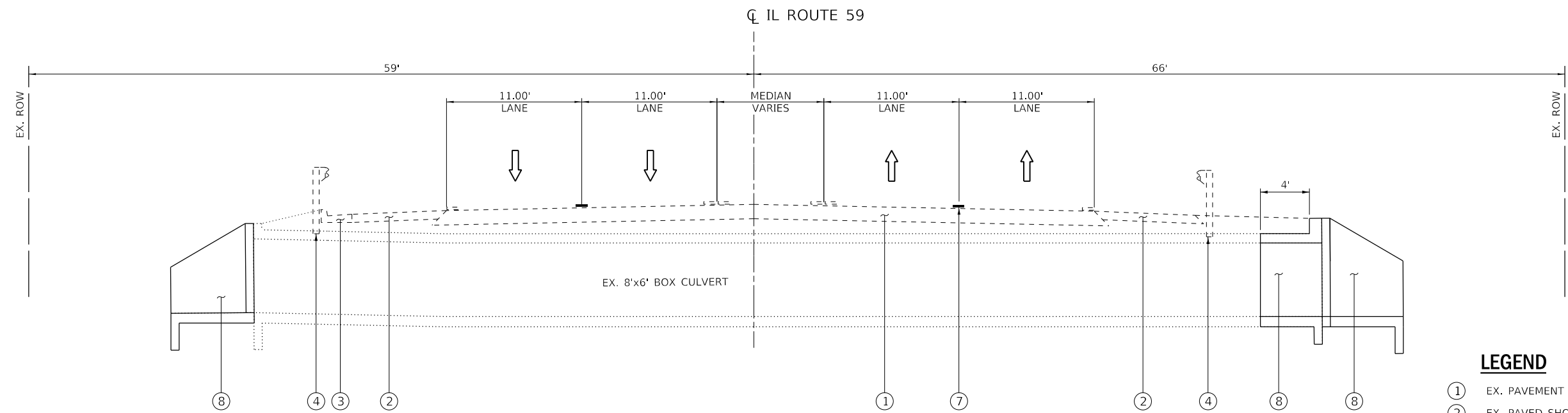
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**EXISTING TYPICAL SECTION**



**PROPOSED TYPICAL SECTION**

**LEGEND**

- ① EX. PAVEMENT
- ② EX. PAVED SHOULDER
- ③ EX. CURB & GUTTER M-6.24
- ④ EX. GUARDRAIL
- ⑤ EX. PAVEMENT MARKING LINE
- ⑥ EX. CULVERT / WING WALLS
- ⑦ PR. PAVEMENT MARKING LINE
- ⑧ PR. CULVERT / WING WALLS

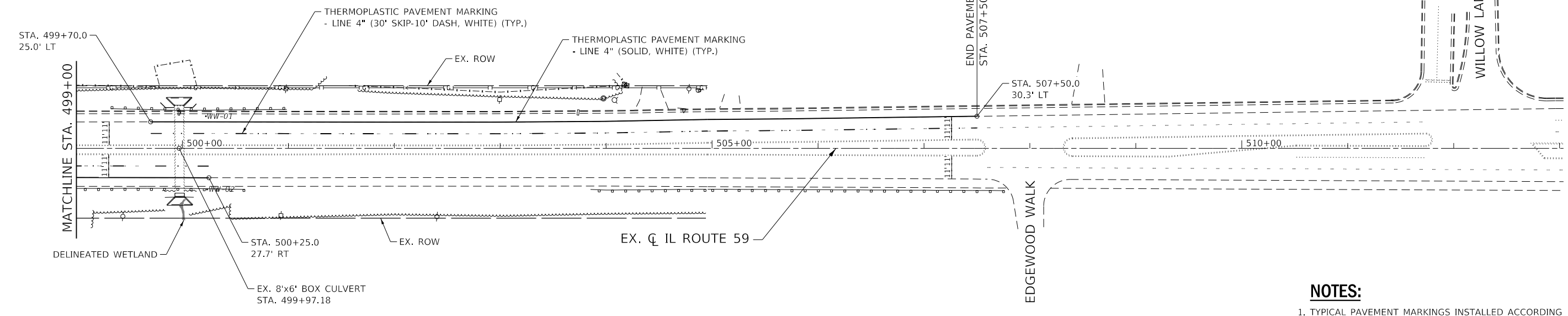
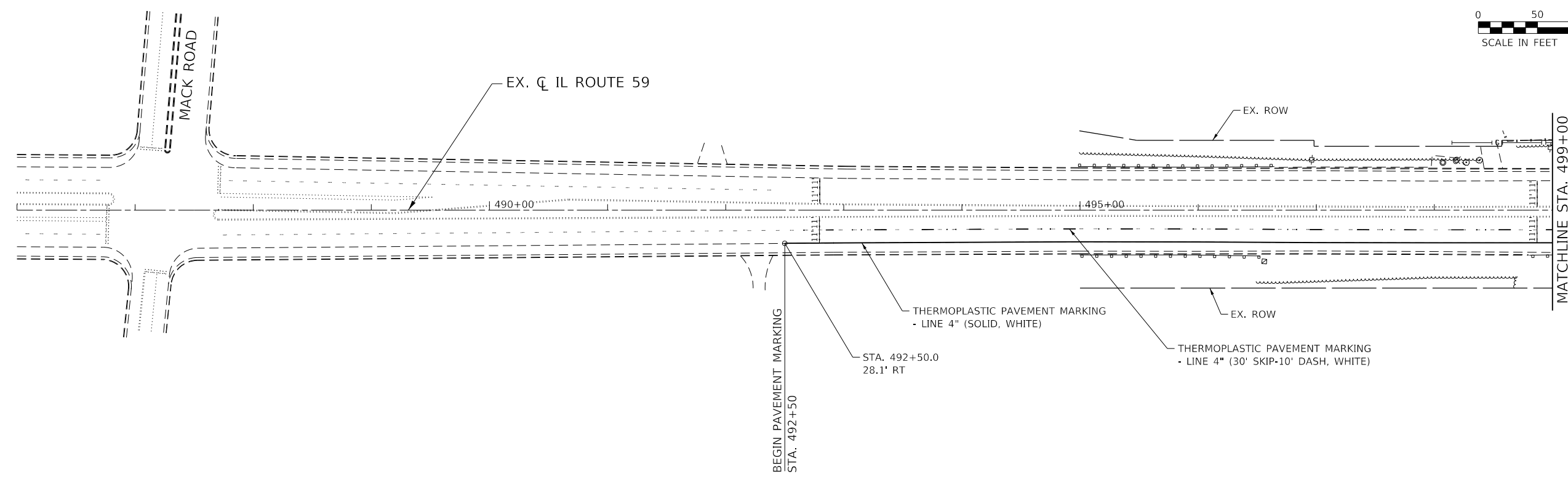
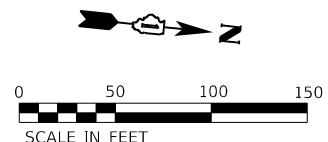


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	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/29/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL ROUTE 59 EXISTING AND PROPOSED TYPICALS</b>			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 338	SECTION 2018-110-A&I	COUNTY DUPAGE	TOTAL SHEETS 29	SHEET NO. 7
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. TYPICAL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13.
  2. THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

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USER NAME = TMohammed	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>IL ROUTE 59    PLAN &amp; PAVEMENT MARKING</b>			
SCALE: 1" = 20'	SHEET	OF	SHEETS
	STA. 486+00		TO STA. 513+00

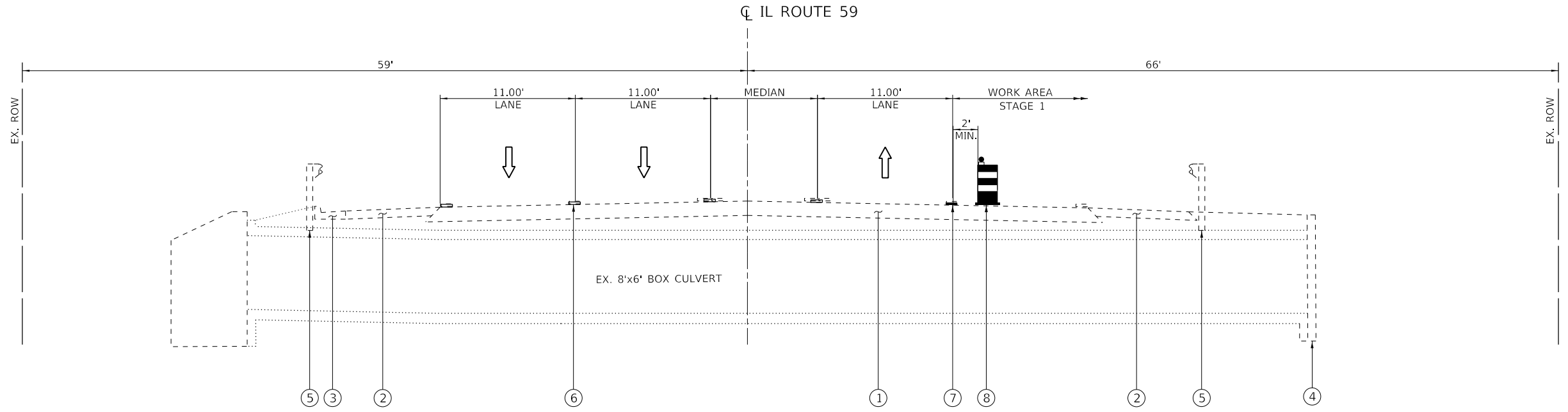
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2018-110-A&I	DUPAGE	29	8
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				



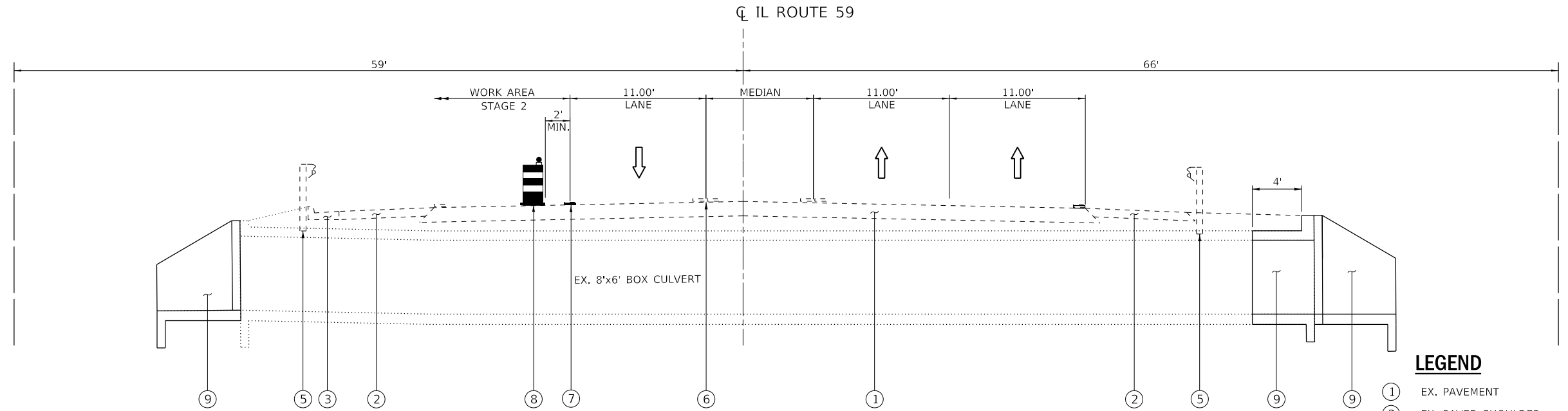
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	PLOTTED	BY
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	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
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	NOTE BOOK NO.	
	CADD FILE NAME	

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**STAGE 1 - TYPICAL SECTION**  
(LOOKING NORTH)



**STAGE 2 - TYPICAL SECTION**  
(LOOKING NORTH)

**LEGEND**

- ① EX. PAVEMENT
- ② EX. PAVED SHOULDER
- ③ EX. CURB & GUTTER B-6.24
- ④ EX. CULVERT / WING WALLS
- ⑤ EX. GUARDRAIL
- ⑥ EX. PAVEMENT MARKING
- ⑦ TEMP. PAVEMENT MARKING TAPE, TYPE IV 4", WHITE
- ⑧ CONES, DRUMS OR BARRICADES
- ⑨ PR. CULVERT / WING WALLS

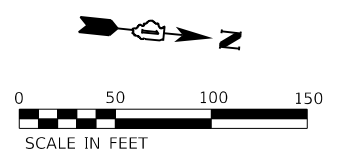


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	DRAWN -	REVISED -
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PLOT DATE = 3/29/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>IL ROUTE 59 STAGING TYPICAL</b>			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

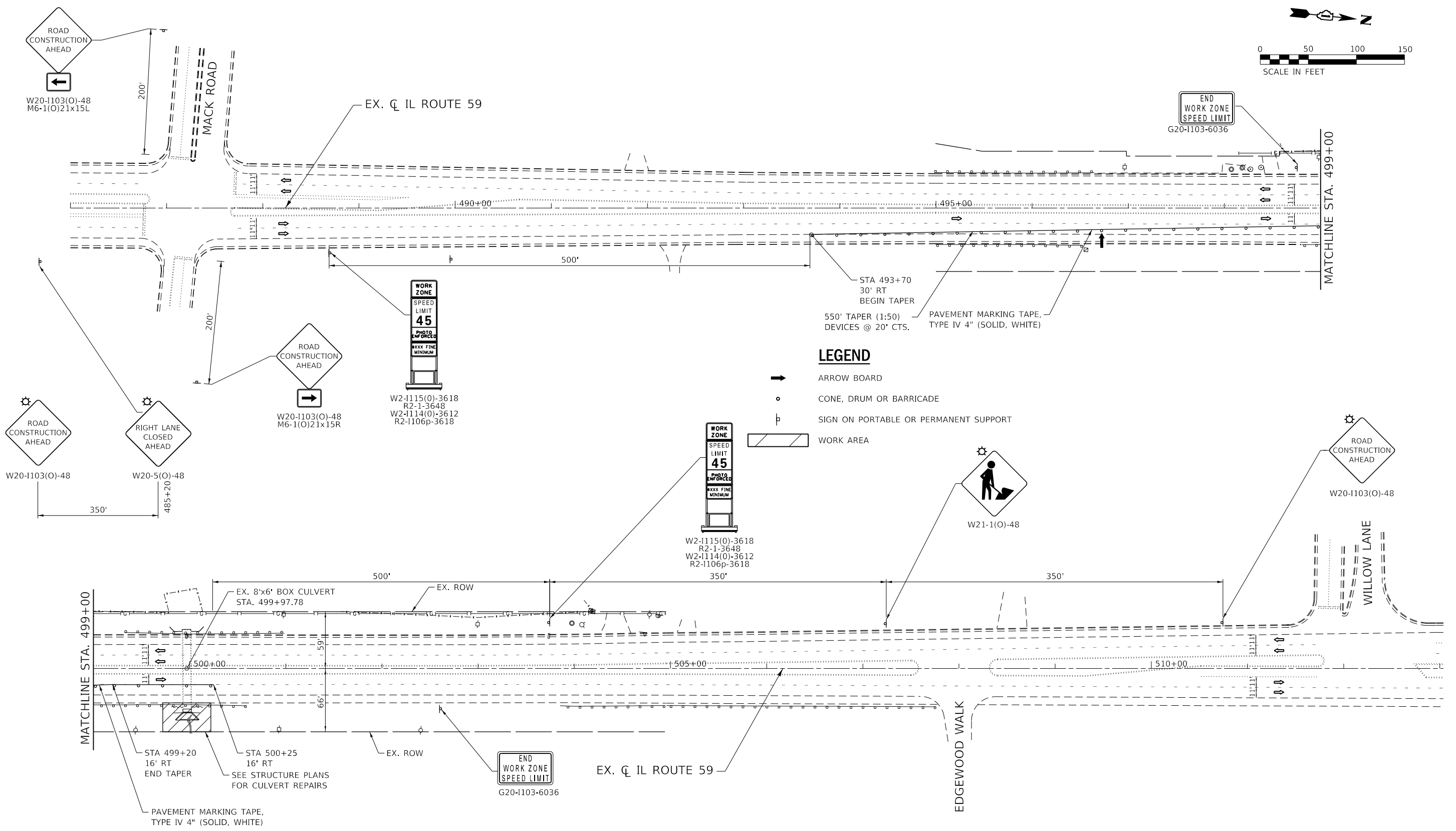
F.A.P. RTE. 338	SECTION 2018-110-A&I	COUNTY DUPAGE	TOTAL SHEETS 29	SHEET NO. 9
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	FILE NAME	
	FILE NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
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	FILE NAME	
	FILE NO.	

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 US-20\CADD\CADD Sheets\08\_D1\2187-511-01.dwg



- LEGEND**
- ➔ ARROW BOARD
  - CONE, DRUM OR BARRICADE
  - ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
  - ▭ WORK AREA

**NOTE:**  
 SEE HIGHWAY STANDARD 701606  
 & IDOT D1 DETAIL TC-10 FOR  
 ADDITIONAL INFORMATION.



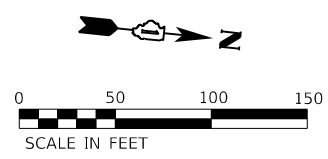
USER NAME = T.Mohammed	DESIGNED -	REVISED -
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PLOT DATE = 3/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 59  
 STAGING PLAN - STAGE 1**

SCALE: 1" = 50' SHEET OF SHEETS STA. 486+00 TO STA. 513+00

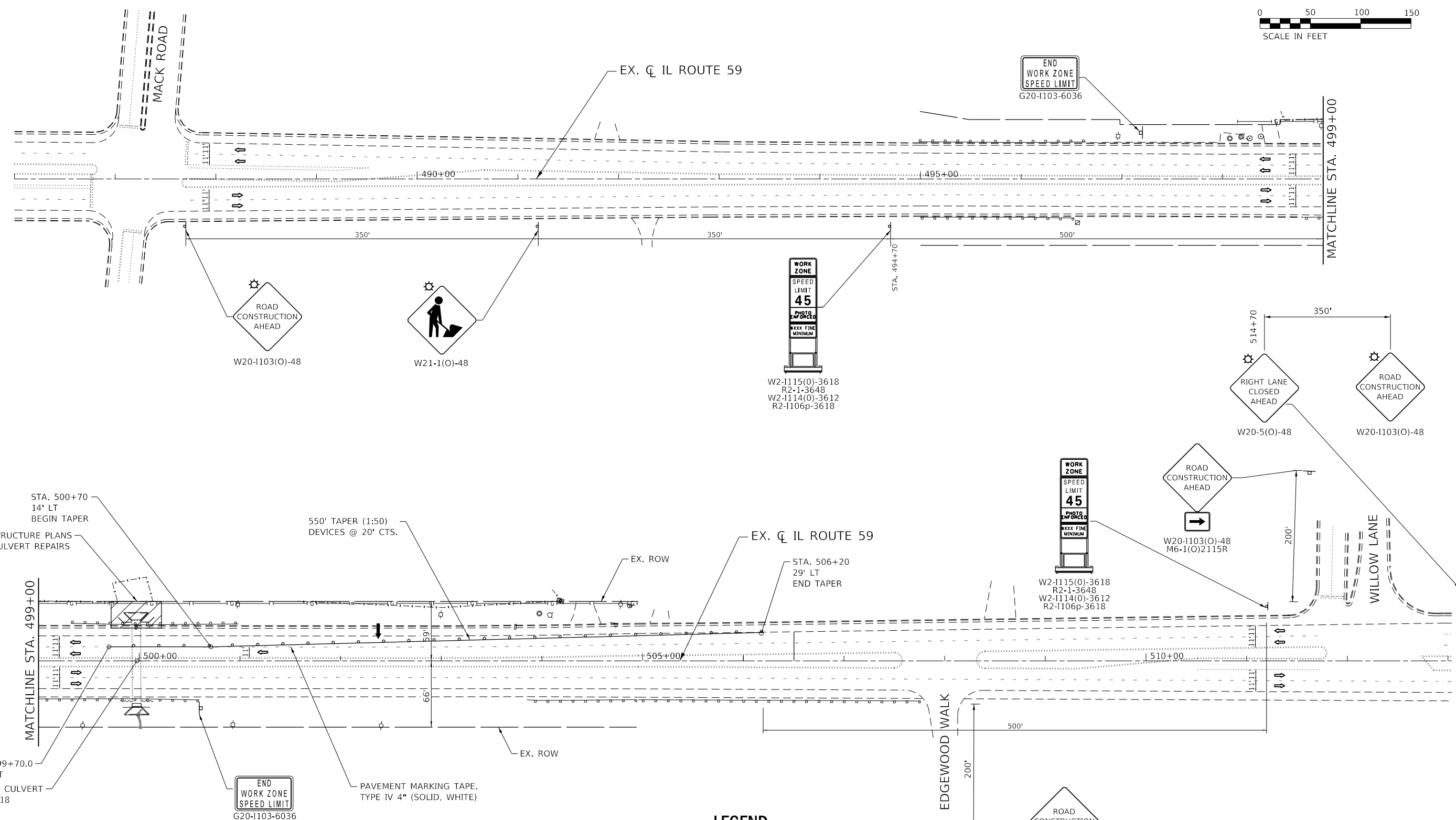
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2018-110-A&I	DUPAGE	29	10
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK NO.	
	STRUCTURE NOTATIONS CHECKED	

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**LEGEND**

- ARROW BOARD
- DRUM OR BARRICADE WITH FLASHING LIGHTS
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- WORK AREA

**NOTE:**

SEE HIGHWAY STANDARD 701606 & IDOT D1 DETAIL TC-10 FOR ADDITIONAL INFORMATION.



USER NAME = TMohammed	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/29/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

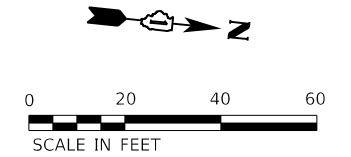
**IL ROUTE 59  
 STAGING PLAN - STAGE 2**

SCALE: 1" = 50' SHEET OF SHEETS STA. 486+00 TO STA. 513+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2018-110-A&I	DUPAGE	29	11
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

**NOTES:**

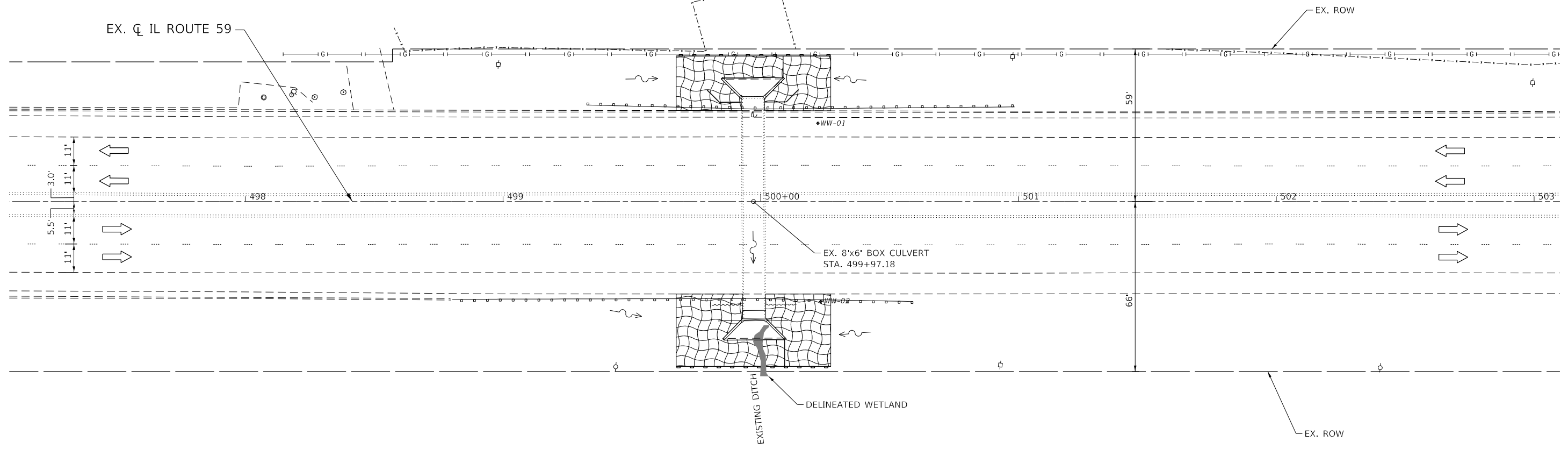
1. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
2. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
3. THE CONSTRUCTION LIMITS WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
4. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
5. NO SEDIMENT SHALL BE ALLOWED TO FLOW DOWNSTREAM AT ANY TIME. ALL WATER FROM DEWATERING OPERATIONS SHALL BE FILTERED TO REMOVE SEDIMENT BEFORE IT IS DISCHARGED DOWNSTREAM.
6. ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.
7. DUE TO STEEP SLOPES AND LIMITED R.O.W., AREAS AVAILABLE FOR EARTHWORK STOCKPILING ARE LIMITED AND SUBJECT TO APPROVAL OF THE ENGINEER.
8. TEMPORARY FENCE WILL BE USED AS WETLAND EXCLUSION FENCING AND "WETLAND NO INTRUSION" SIGNAGE POSTED AT THE BOUNDARY OF UN-IMPACTED WETLANDS WITHIN THE R.O.W. THE SIGNAGE IS AVAILABLE AT THE BUREAU OF MAINTENANCE (BOM) BY CONTACTING STEVE LIPKE (847-705-4173) TO ARRANGE PICK UP. SIGNS ARE TO BE RETURNED TO BOM AT THE END OF CONSTRUCTION. SIGN PICK UP, POSTING AND RETURN WILL BE INCLUDED IN THE COST OF TEMPORARY FENCE.
9. ALL MATERIALS USED FOR CONSTRUCTION ACTIVITIES MUST BE MOVED TO AN UPLAND AREA IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITY. NO HEAVY EQUIPMENT MACHINERY WILL BE ALLOWED WITHIN THE WETLANDS/WOUS DELINEATED AREA.



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	CADD FILE NAME	
	NO.	
	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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	BY	

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**LEGEND:**

- PERIMETER EROSION BARRIER
- HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL W/SEEDING CLASS 4 (MODIFIED)
- FLOW
- WETLAND
- TRAFFIC FLOW DIRECTION

**SEEDING AND EROSION CONTROL SCHEDULE**

LOCATION	SIDE	2110615 TOPSOIL, FURNISH & PLACE, 4"	25000312 SEEDING, CLASS 4A	X2510635 HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL
STATION TO STATION	LT/RT	(SQ YD)	(ACRE)	(SQ YD)
IL 59				
499+67 TO 500+27	LT	121		121
499+67 TO 500+27	RT	162		162
TOTAL		283	0.1	283



USER NAME = TMohammed	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 59  
EROSION CONTROL PLAN**

SCALE: 1" = 20' SHEET OF SHEETS STA. 497+00 TO STA. 503+00

F.A.P. RTE. 338	SECTION 2018-110-A&I	COUNTY DUPAGE	TOTAL SHEETS 29	SHEET NO. 12
			CONTRACT NO. 62H37	
ILLINOIS FED. AID PROJECT				

Benchmark: X-Cut on N.E bolt of fire hydrant (arrow points to) W. side of IL 59 @ RES # 2340 is 610'-620' RT ± Sta. 499+97.18 Elev. 722.60

Existing Structure: Structure SN 022-0503 is an 8' x 6' single-cell reinforced concrete box culvert originally built around 1931. The culvert length was extended by 25'-6" to the west in 1973 and the current length is 86'-11 1/8" out-to-out of headwalls. The structure carries two northbound and two southbound lanes of traffic. The culvert wings and a portion of the east barrel end will be removed and replaced while maintaining four lanes of traffic.

**INDEX OF SHEETS**

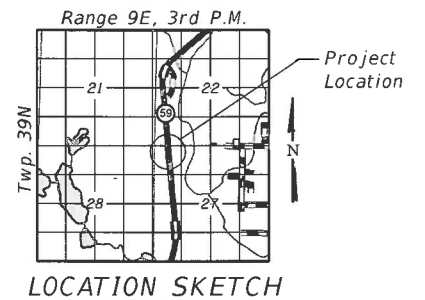
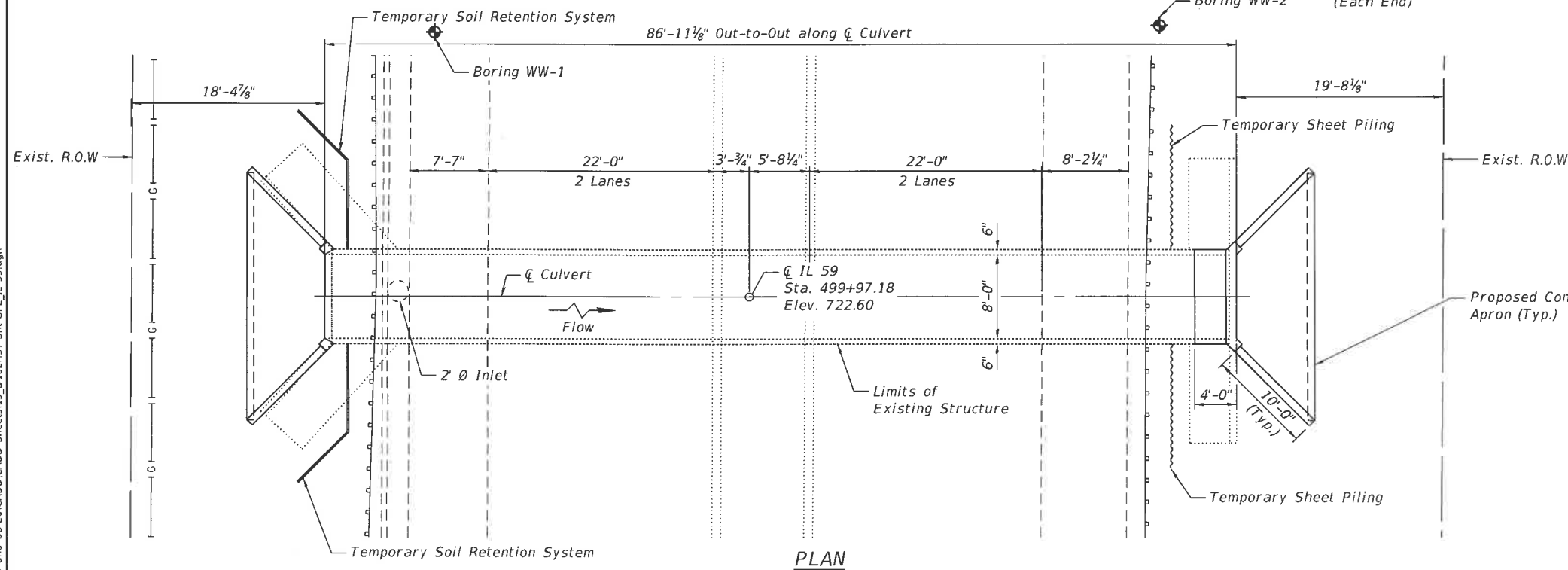
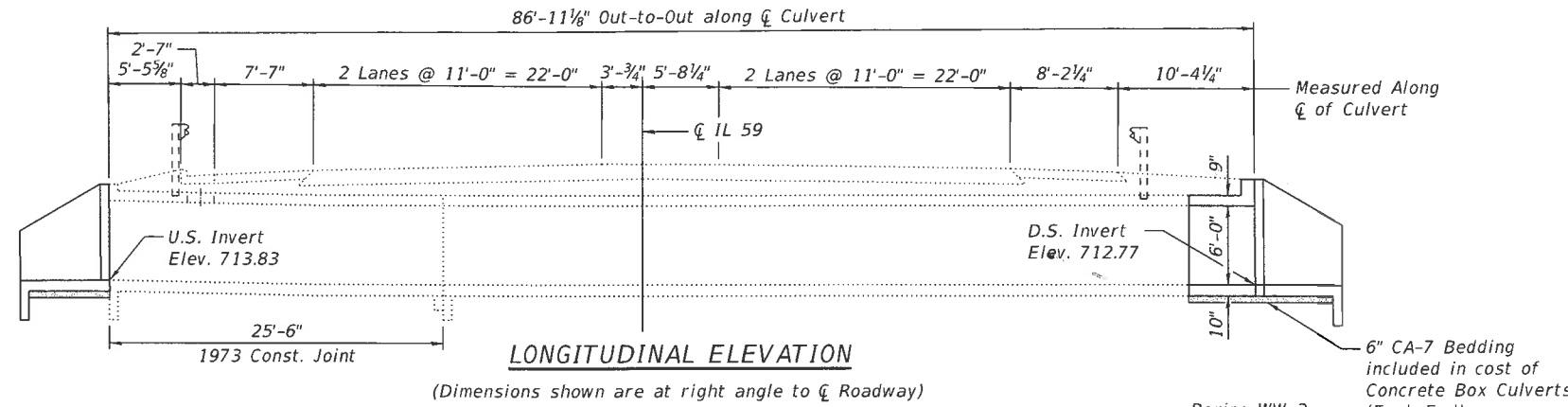
1. General Plan
2. Temporary Sheet Piling & Temporary Soil Retention System
3. Concrete Removal and Repairs
4. Culvert Section & Details - I
5. Culvert Section & Details - II
6. Boring Logs

**GENERAL NOTES:**

1. 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 shall be paid for the quantity actually furnished at the unit price bid for the work.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

**SCOPE OF WORK:**

1. Remove and reconstruct 4'-0" of the east end of the culvert barrel.
2. Remove and reconstruct the wingwalls at each end of the culvert.
3. Make concrete repairs to the bottom of the top slab in the area of the inlet near the west end of the culvert.



**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**LOADING HS-20**

**DESIGN STRESSES**

**FIELD UNITS**

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

**EXISTING UNITS (1973)**

f'c = 3,500 psi (Concrete - Barrel)  
fy = 40,000 psi (Reinforcement)

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	21.2
Structure Excavation	Cu. Yd.	33
Reinforcement Bars, Epoxy Coated	Pound	3,220
Temporary Sheet Piling	Sq. Ft.	909
Temporary Soil Retention System	Sq. Ft.	286
Expansion Bolts 3/4 Inch	Each	22
Concrete Box Culverts	Cu. Yd.	21.4
Geocomposite Wall Drain	Sq. Yd.	6.0
Structural Repair of Concrete (Depth Equal to or Less Than 5 in.)	Sq. Ft.	8
Membrane Waterproofing System for Buried Structures	Sq. Yd.	6.0

**LEGEND**

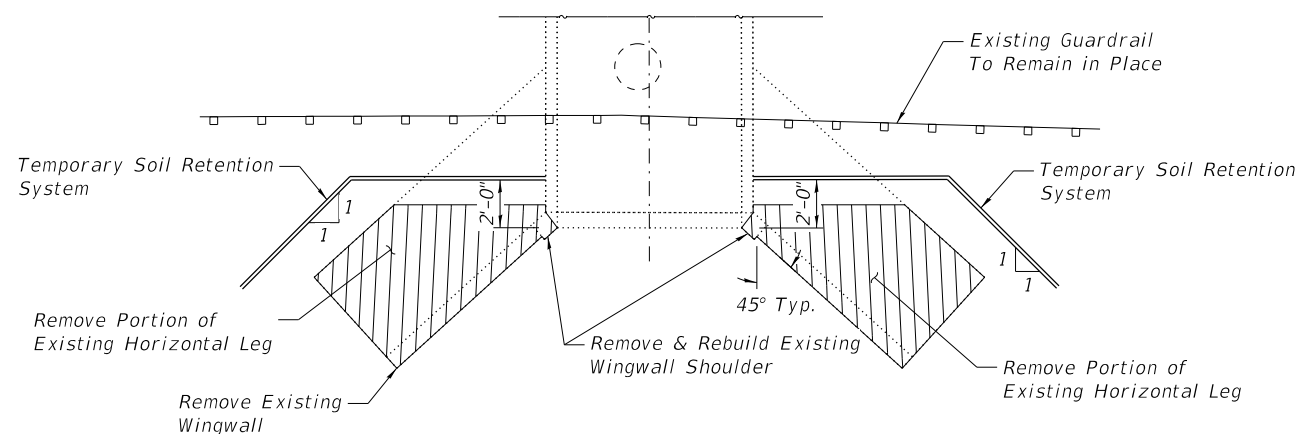
- Exist. Guardrail
- Exist. Gasline
- Temporary Soil Retention System
- Temporary Sheet Piling



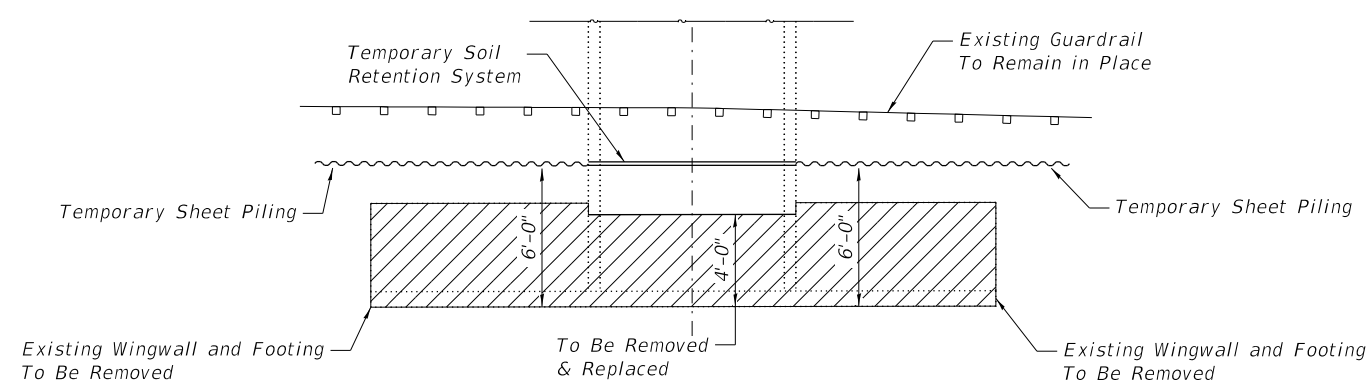
*Keith W. Benting* 4/3/2019  
Keith W. Benting, Illinois S.E. 081-004777 Date  
Expires 11/30/2020

**GENERAL PLAN**  
F.A.P. 338 / IL 59  
**OVER DITCH**  
SECTION 112 W & RS - 3  
DUPAGE COUNTY  
STATION 499+97.18  
STRUCTURE NO. 022-0503

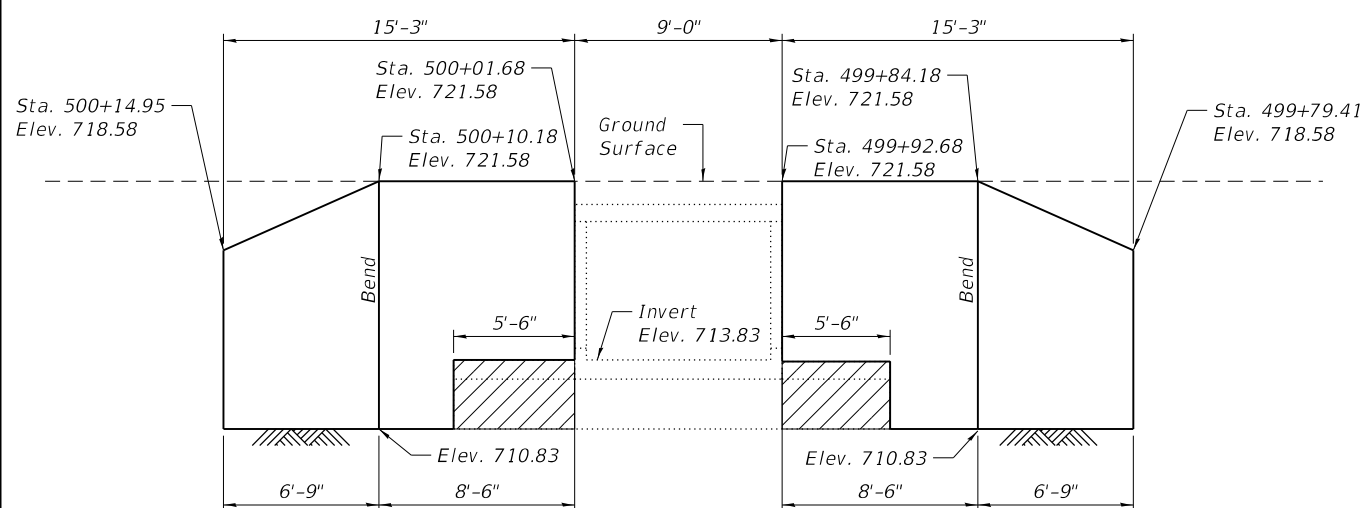
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PLAN AT WEST END OF CULVERT



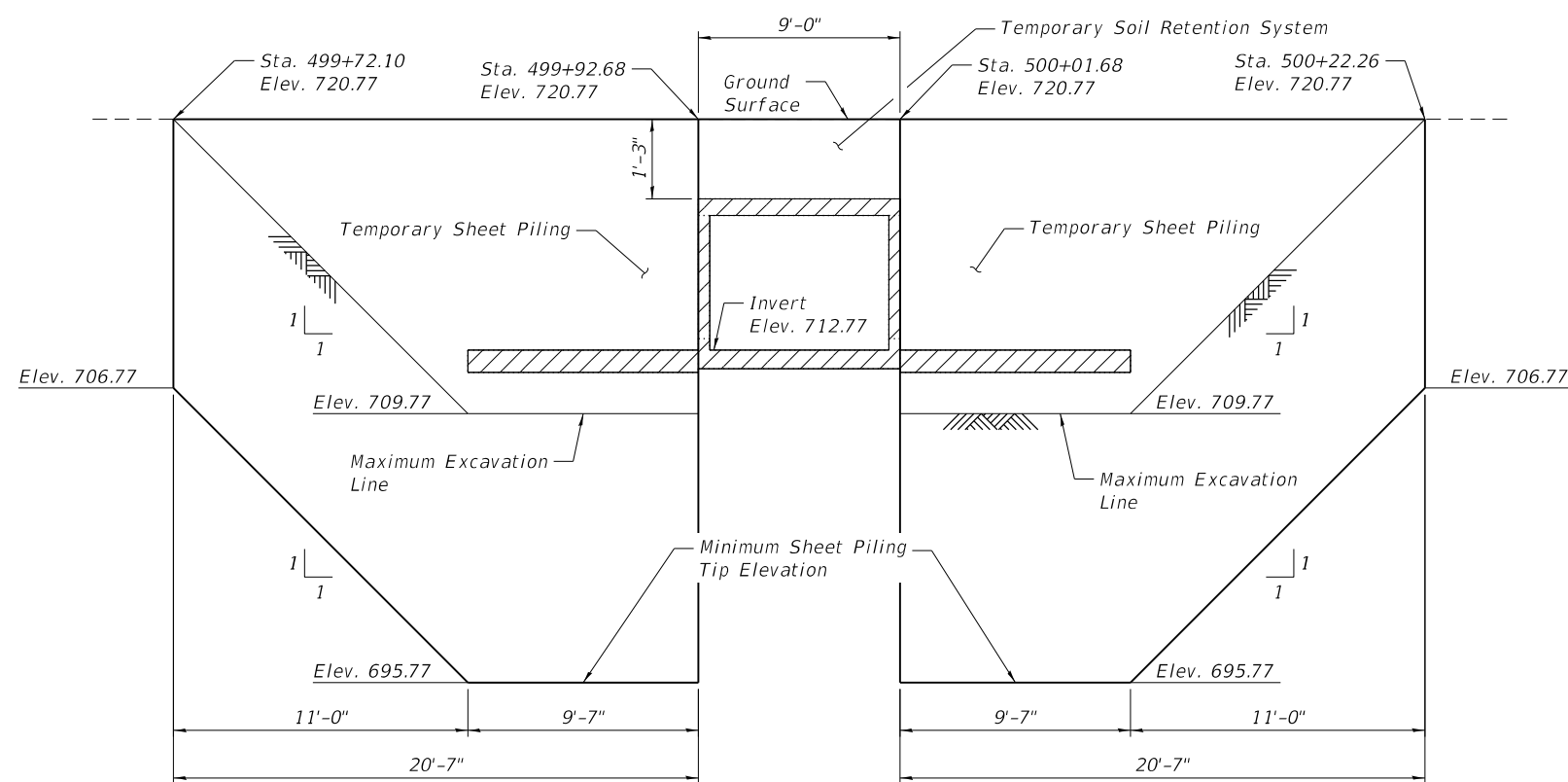
PLAN AT EAST END OF CULVERT



ELEVATION - TSRS AT WEST END OF CULVERT

Developed View

(Looking East)



ELEVATION - TEMPORARY SHEET PILING AT EAST END OF CULVERT

(Looking West)

Min. Section Modulus = 15.9 in<sup>3</sup>/ft

LEGEND

- Concrete Removal
- Exist. Guardrail
- Temporary Soil Retention System
- Temporary Sheet Piling

BILL OF MATERIAL

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	286
Temporary Sheet Piling	Sq. Ft.	909

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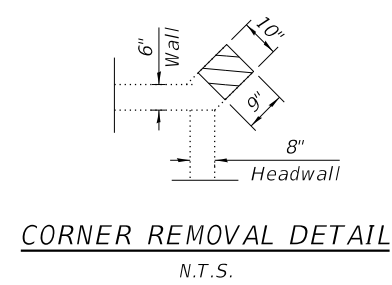
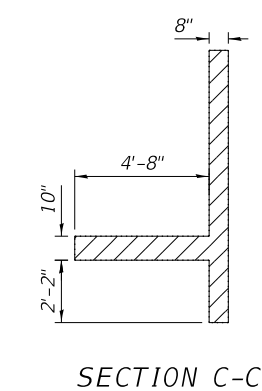
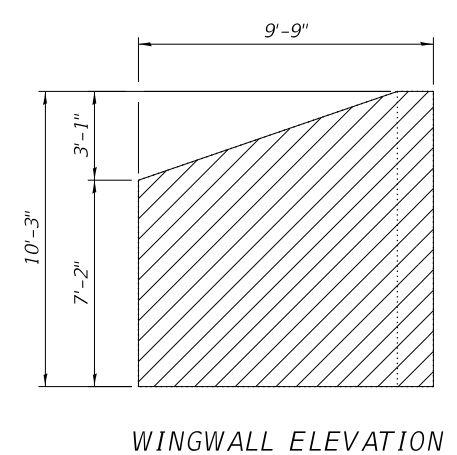
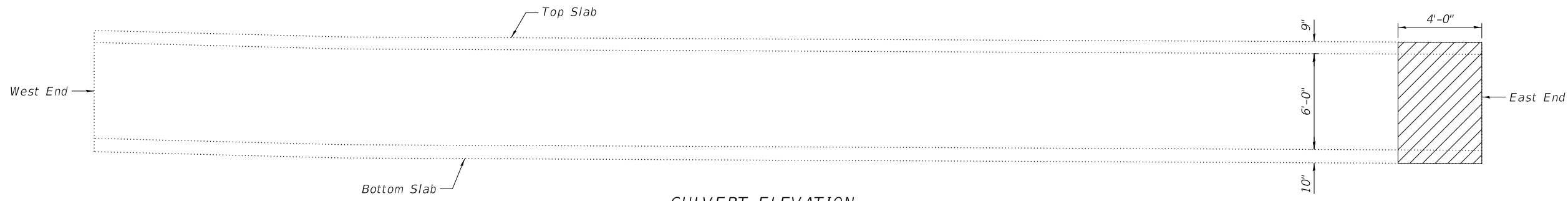
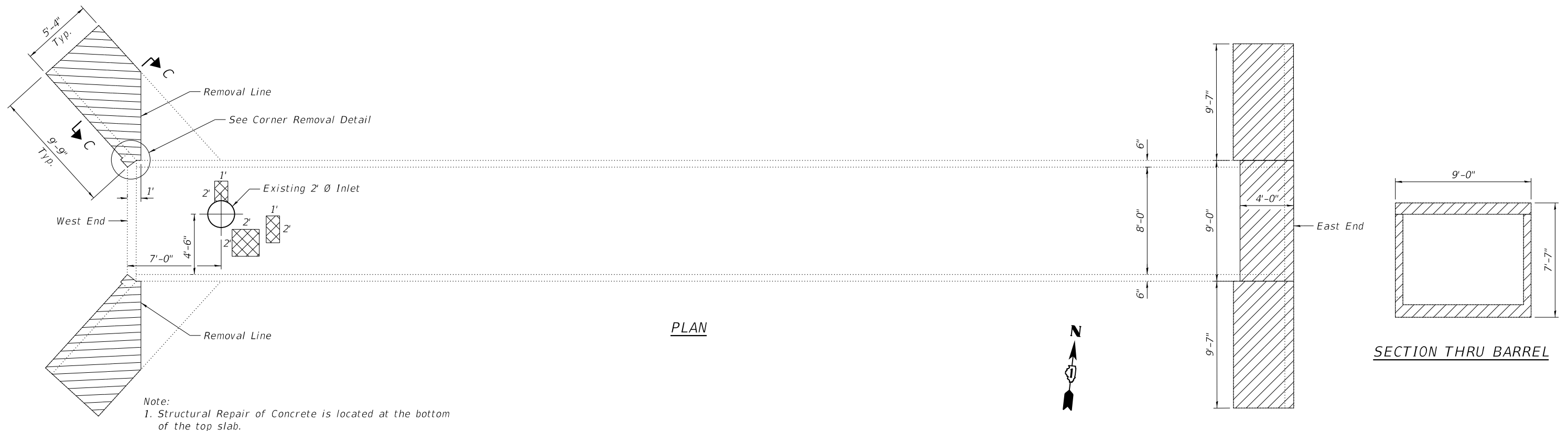
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY SHEET PILING &  
TEMPORARY SOIL RETENTION SYSTEM - SN 022-0503

SHEET 2 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2018-110-A1	DUPAGE	29	14
CONTRACT NO. 62H37				
ILLINOIS		FED. AID PROJECT		

MODEL: \$MODELNAME5  
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**LEGEND**

	Concrete Removal
	Structural Repair of Concrete

**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	21.2
Structural Repair of Concrete (Depth Equal to or Less Than 5 in.)	Sq. Ft.	8



USER NAME =	Icriscione	DESIGNED -	KWB	REVISED -	
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

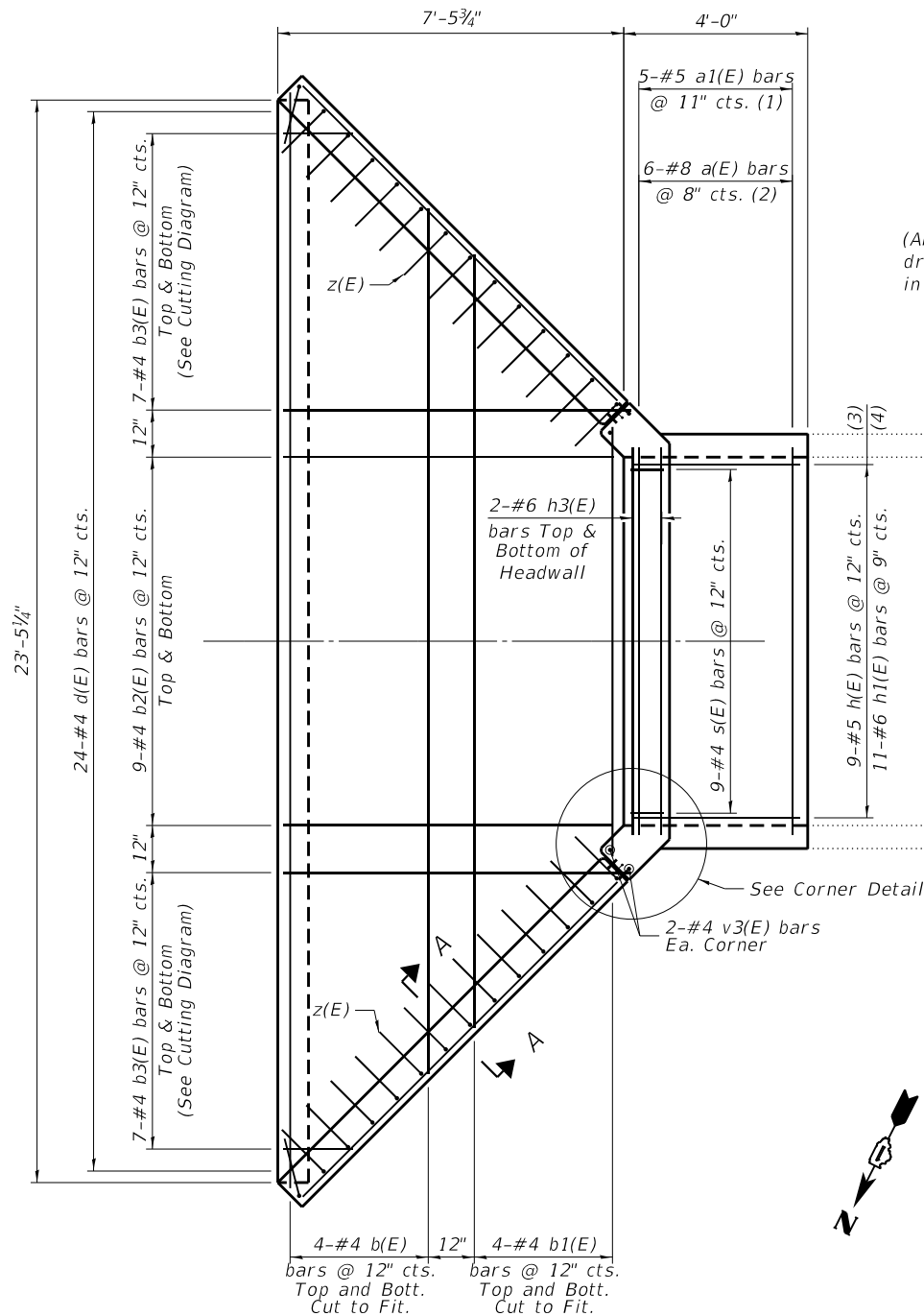
CONCRETE REMOVAL AND REPAIRS  
 SN 022-0503

SHEET 3 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2018-110-A-I	DUPAGE	29	15
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

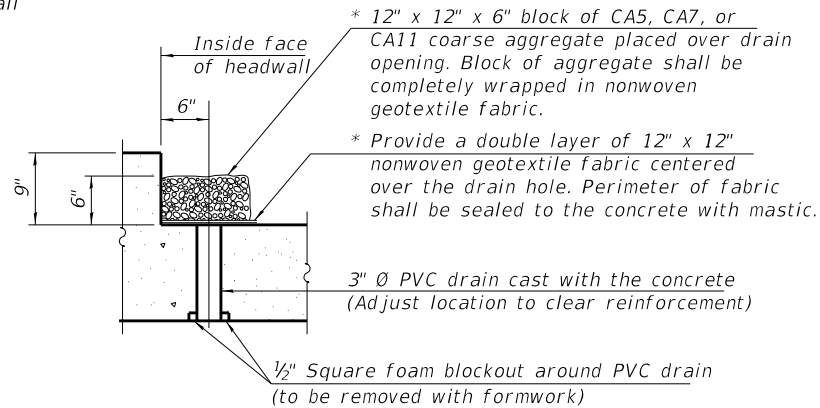
NOTE: Expansion bolts shall be 3/4" Ø hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete.

- (1) Top of top slab & bottom of bottom slab
- (2) Bottom of top slab & top of bottom slab
- (3) Top of top slab & top & bottom of bottom slab
- (4) Bottom of top slab



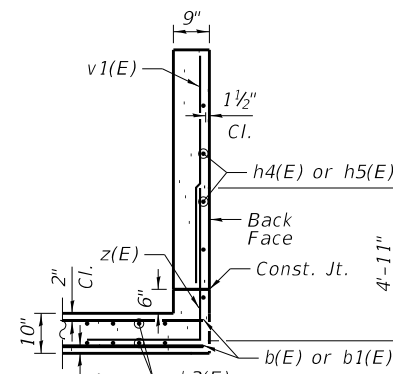
EAST END PARTIAL PLAN

\* 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.



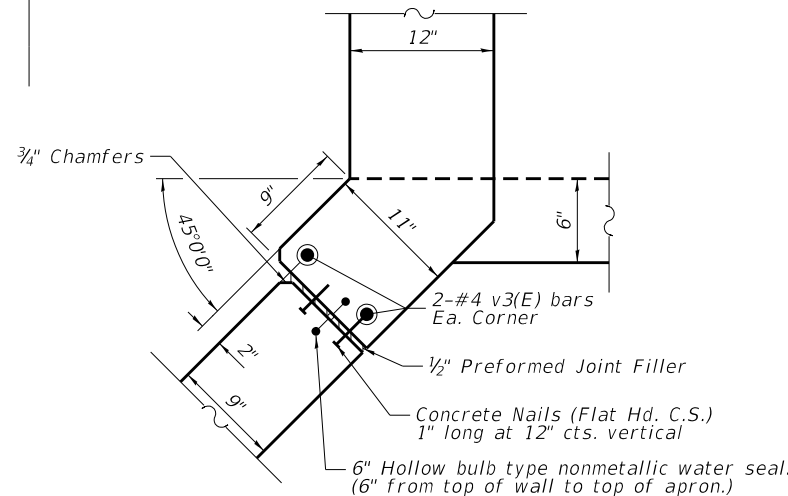
DRAIN DETAIL

(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 Concrete Box Culverts.)



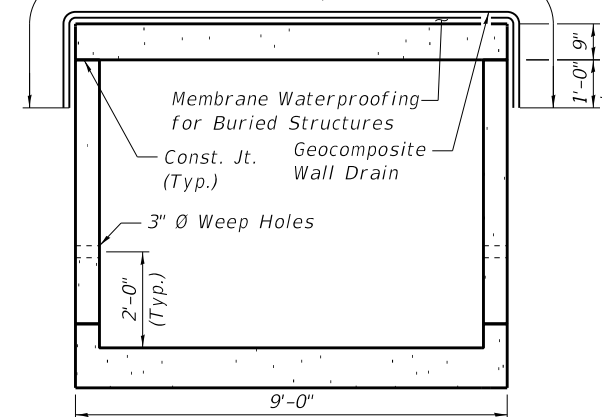
SECTION A-A

Minimum Bar Lap:  
#6 bar = 3'-10"

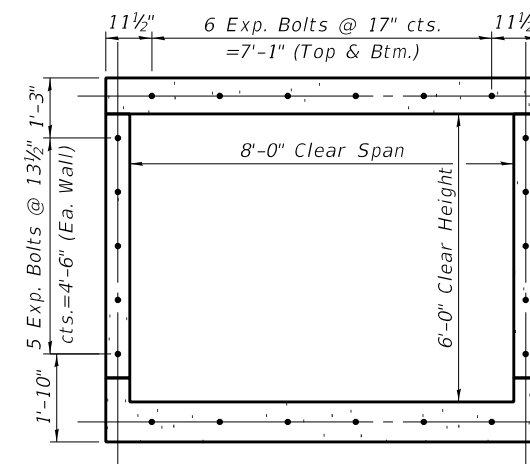


CORNER DETAIL

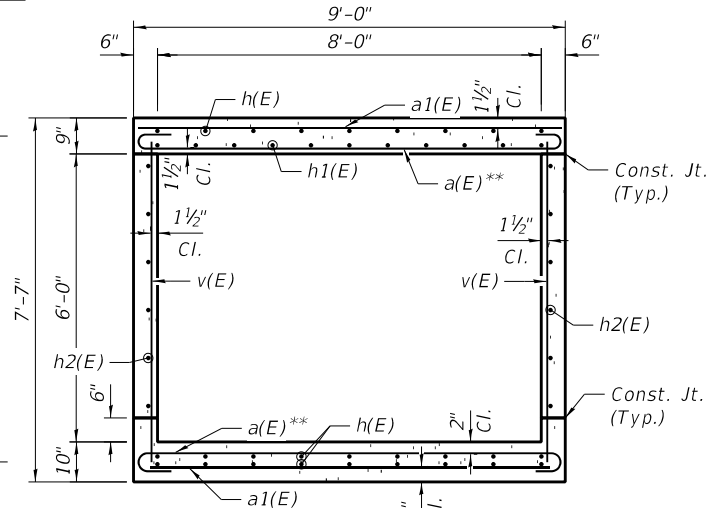
Pay Limits for Membrane Waterproofing System for Buried Structures And Geocomposite Wall Drain



MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES

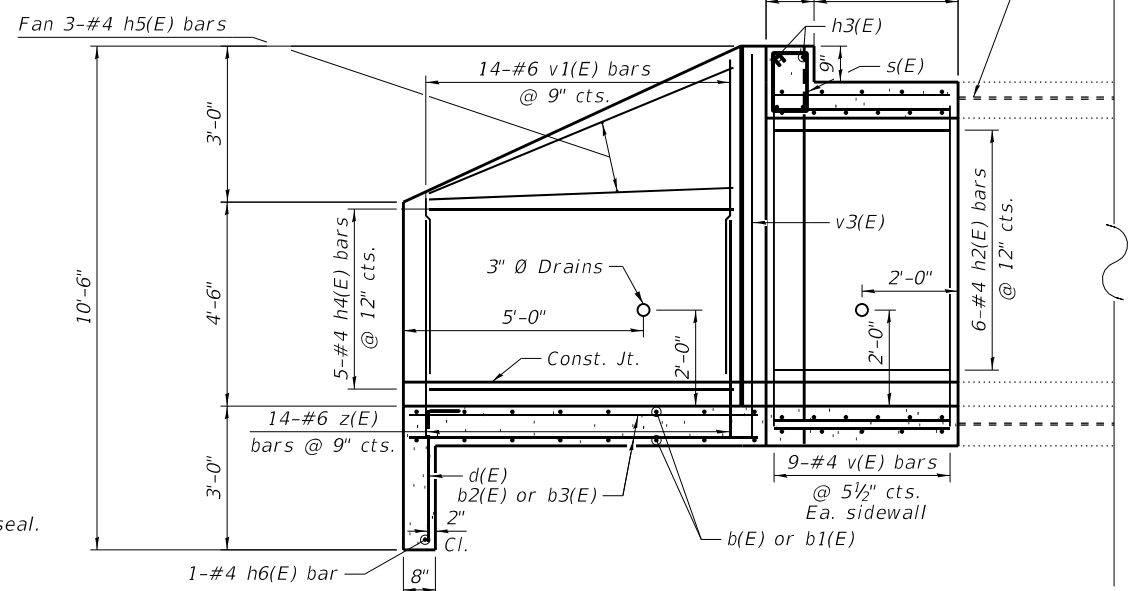


SECTION THRU BARREL SHOWING EXP. BOLT LOCATIONS



SECTION THRU BARREL

Ex. long. reinf. in culvert top slab, bottom slab, and walls to remain



PARTIAL EAST END LONGITUDINAL SECTION

BILL OF MATERIAL

Item	Unit	Total
Membrane Waterproofing System for Buried Structures	Sq. Yd.	6.0
Geocomposite Wall Drain	Sq. Yd.	6.0

Note: Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.

\*\*Tilt hook of a(E) bars if necessary for 1 1/2" min. Cl.

MODEL: \$MODELNAMES  
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PLOT SCALE =	2:0.0000 " = 1"	DRAWN -	LMC	REVISED -	
PLOT DATE =		CHECKED -	MDC	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

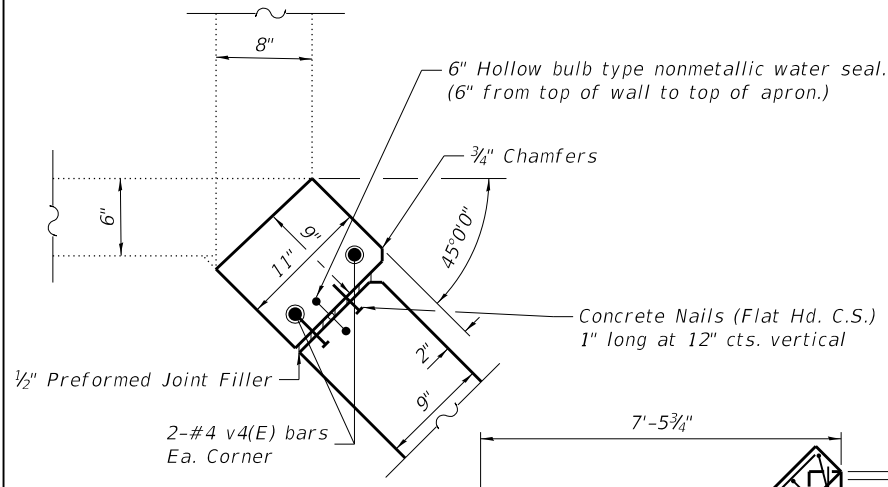
CULVERT DETAILS - I  
SN 022-0503

SHEET 4 OF 6 SHEETS

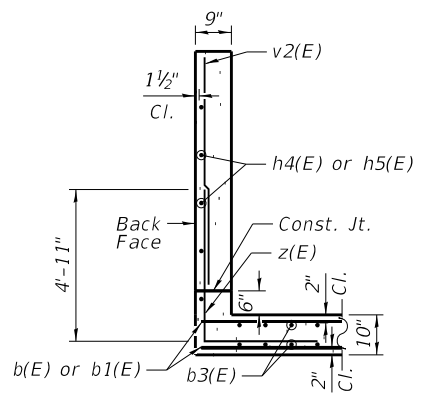
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338	2018-110-A&I	DUPAGE	29	16
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				



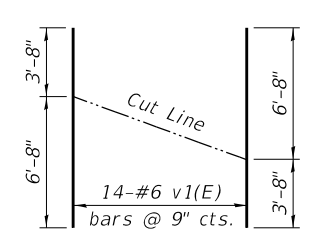
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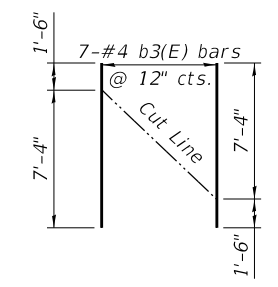
**CORNER DETAIL**



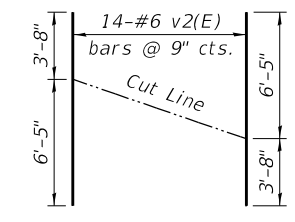
**SECTION A-A**



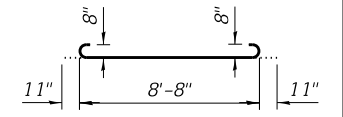
**CUTTING DIAGRAM**  
 Order v1(E) bars full length.  
 Cut as shown and use the remainder in opposite wing.



**CUTTING DIAGRAM**  
 Order b3(E) bars full length.  
 Cut as shown and use the remainder in opposite face.

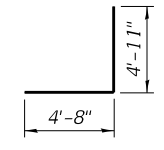


**CUTTING DIAGRAM**  
 Order v2(E) bars full length.  
 Cut as shown and use the remainder in opposite wing.

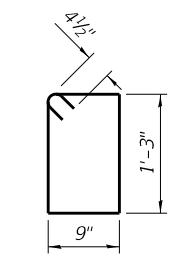


**BAR a(E)**

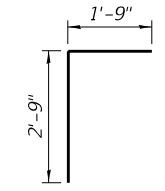
**Minimum Bar Lap:**  
 #6 bar = 3'-10"



**BAR z(E)**



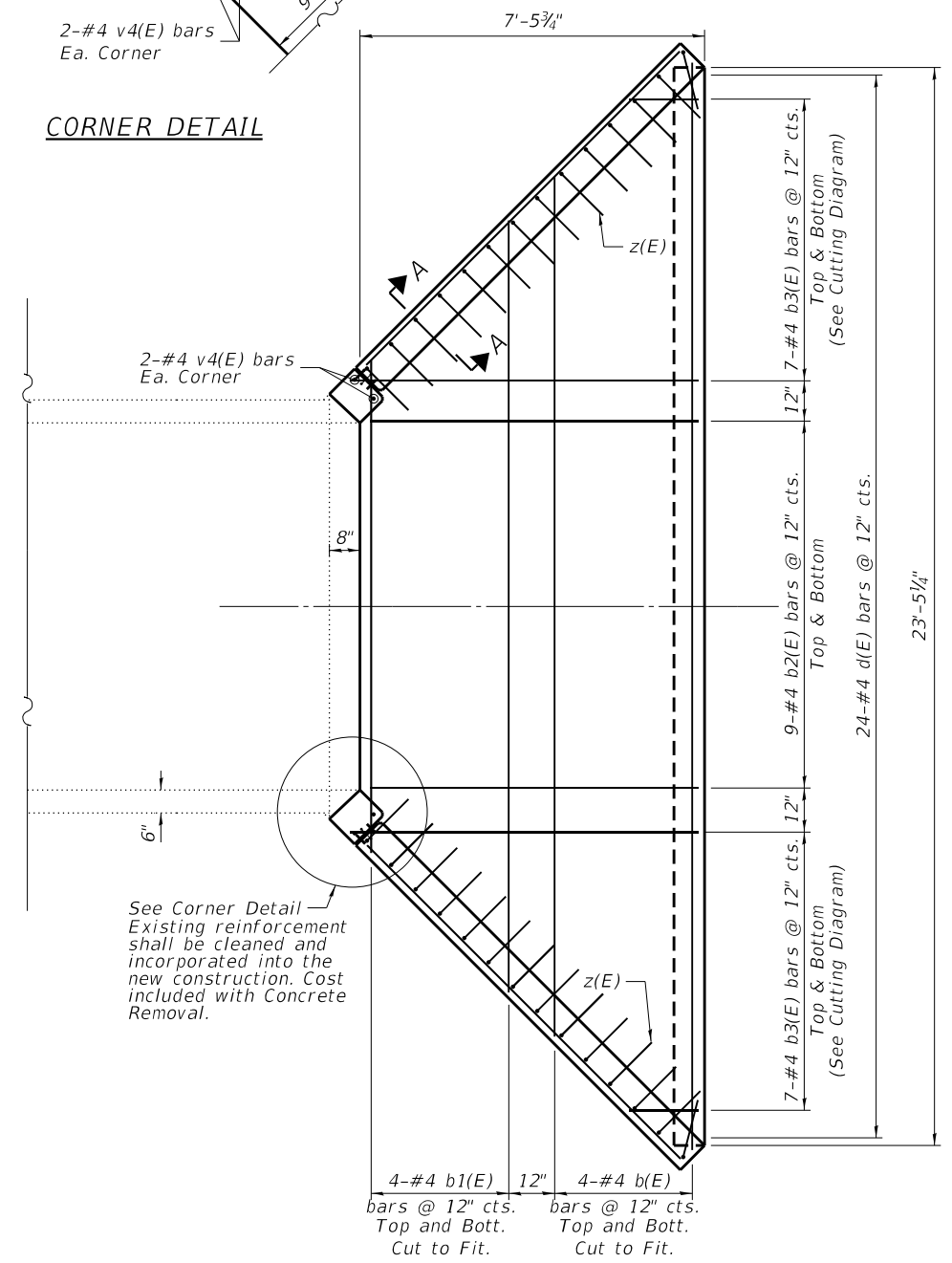
**BAR s(E)**



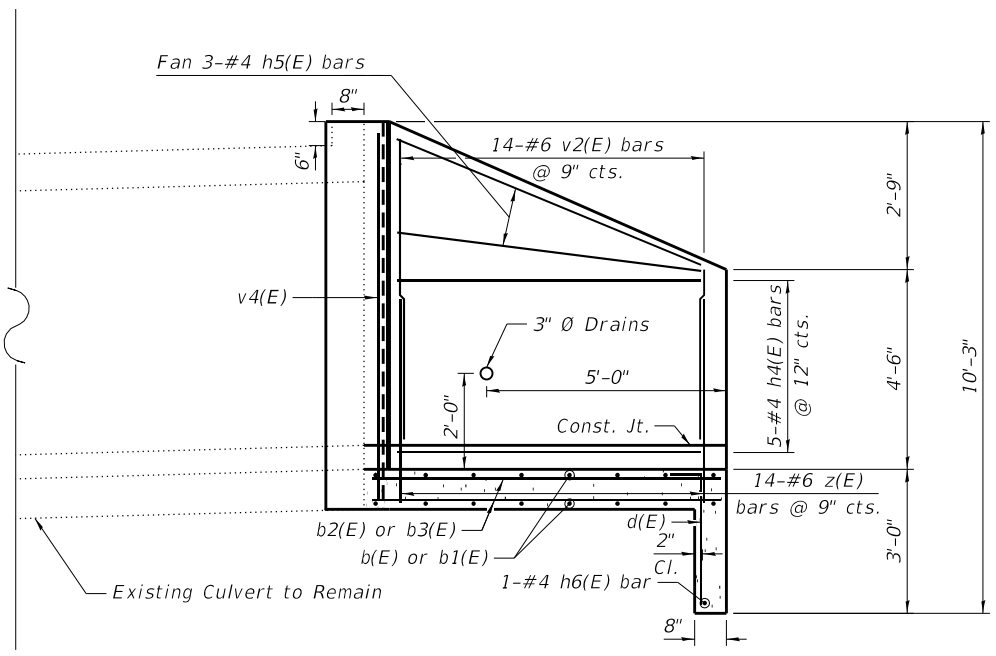
**BAR d(E)**

**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH (ft.)	SHAPE
a(E)	12	#8	10'-6"	U
a1(E)	10	#5	8'-8"	—
b(E)	16	#4	23'-8"	—
b1(E)	16	#4	16'-9"	—
b2(E)	36	#4	7'-2"	—
b3(E)	28	#4	8'-10"	—
d(E)	48	#4	4'-6"	L
h(E)	27	#5	3'-8"	—
h1(E)	11	#6	3'-8"	—
h2(E)	12	#4	3'-8"	—
h3(E)	4	#6	8'-8"	—
h4(E)	20	#4	9'-8"	—
h5(E)	12	#4	9'-9"	—
h6(E)	2	#4	23'-1"	—
s(E)	9	#4	4'-9"	□
v(E)	18	#4	7'-3"	—
v1(E)	14	#6	10'-4"	—
v2(E)	14	#6	10'-1"	—
v3(E)	4	#4	8'-0"	—
v4(E)	4	#4	7'-9"	—
z(E)	56	#6	9'-7"	L
Concrete Box Culverts			Cu. Yd.	21.4
Reinforcement Bars, Epoxy Coated			Pound	3,220
Expansion Bolts 3/4"			Each	22



**WEST END PARTIAL PLAN**



**PARTIAL WEST END LONGITUDINAL SECTION**



USER NAME =	Icriscione	DESIGNED -	KWB	REVISED -	
FILE NAME =	17_D162H37-Sht-Culvert_Details_West.dgn	CHECKED -	AWM	REVISED -	
PLOT SCALE =	2:0.0000 " / in.	DRAWN -	LMC	REVISED -	
PLOT DATE =		CHECKED -	MDC	REVISED -	

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

**CULVERT DETAILS - II**  
**SN 022-0503**

SHEET 5 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2018-110-A&I	DUPAGE	29	17
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

**BORING LOG WW-1** Page 1 of 1

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

**WEI Job No.: 199-02-07**  
Client: **AES Engineering Services**  
Project: **IL 59 Culvert Wingwalls Replacement**  
Location: **Warrenville, IL**

Datum: NAVD 88  
Elevation: 721.90 ft  
North: 1886477.45 ft  
East: 1019691.84 ft  
Station: 500+22.18  
Offset: 30.32 LT

**BORING LOG WW-2** Page 1 of 2

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

**WEI Job No.: 199-02-07**  
Client: **AES Engineering Services**  
Project: **IL 59 Culvert Wingwalls Replacement**  
Location: **Warrenville, IL**

Datum: NAVD 88  
Elevation: 721.20 ft  
North: 1886485.58 ft  
East: 1019760.45 ft  
Station: 500+23.25  
Offset: 38.74 RT

**BORING LOG WW-2** Page 2 of 2

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

**WEI Job No.: 199-02-07**  
Client: **AES Engineering Services**  
Project: **IL 59 Culvert Wingwalls Replacement**  
Location: **Warrenville, IL**

Datum: NAVD 88  
Elevation: 721.20 ft  
North: 1886485.58 ft  
East: 1019760.45 ft  
Station: 500+23.25  
Offset: 38.74 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
721.2	9-inch thick, ASPHALT --PAVEMENT-- Stiff, brown and gray, damp SILTY CLAY, trace gravel wood chips --FILL-- --RDR 2 to 3--	1	5	8	1.50	19			9	6	1.39	12	
		2	9	13	1.50	17	697.6	Medium dense to dense, gray, saturated SILT, sand laminations --RDR 2--	25	10	18	3.03	12
		3	27	15		16			11	13		NP	23
713.9	Very stiff, brown, damp SILTY CLAY --RDR 2--	4	16	11	3.50	19			12	14		NP	20
716.7	Soft, brown, moist CLAY LOAM --RDR 2--	5	8	11	0.41	17	691.4	Very dense, gray, saturated, medium SAND, little gravel --RDR 2--	13	32	38	NP	10
708.9	Stiff to very stiff, brown and gray, damp SILTY CLAY, trace to some gravel --RDR 2--	6	7	13	1.64	16	688.9	Very dense, gray, saturated GRAVEL --RDR 2--	14	36	50.5	NP	10
		7	10	10	1.00	17	686.4	Medium dense, gray SILTY LOAM with sand --RDR 3--	15	17	10	NP	15
		8	9	12	1.23	13	683.9	Very stiff, gray, damp SILTY CLAY, trace gravel --RDR 2--	16	11	16	2.21	19
		20	12	19			681.9	Boring terminated at 40.00 ft	40				

**GENERAL NOTES**

Begin Drilling **03-21-2019** Complete Drilling **03-21-2019**  
Drilling Contractor **Wang Testing Services** Drill Rig **D25 ATV [93%]**  
Driller **R&K** Logger **I. Nenn** Checked by **NSB (draft)**  
Drilling Method **2.25" HSA: boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling **24.25 ft**  
At Completion of Drilling **9.33 ft**  
Time After Drilling **NA**  
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
720.7	6-inch thick, TOPSOIL Stiff, brown and gray, damp SILTY CLAY, trace gravel --FILL--	1	2	1	1.50	17	706.7	Very stiff, gray, moist LOAM to CLAY LOAM, little gravel --RDR 2--	9	7	9	2.71	12
		2	2	3			698.2	Dense, gray, saturated SANDY GRAVEL, silty clay laminations --RDR 2--	10	15	17	NP	12
		5	2	3	1.00	24			25	10	17	24	
715.7	Very stiff to hard, brown, damp SILTY CLAY to SILTY CLAY LOAM --RDR 2--	3	3	4	2.30	16	695.7	Medium dense to dense, gray, saturated SILT to SILTY LOAM, sand laminations --RDR 2--	11	10	13	1.56	14
		4	5	8	5.90	16			12	12	10	NP	19
		10	10	12					30	12	10	NP	20
		15	10	12	4.43	21			13	19	19	NP	20
707.0	Medium dense, brown, saturated SILT --RDR 2--	6	12	13	3.20	20	688.2	Medium dense to dense, gray, saturated SANDY GRAVEL --RDR 3--	14	16	13	NP	8
705.7	Stiff, brown, moist CLAY LOAM to LOAM, trace to little gravel --RDR 2--	7	5	6	1.15	15			15	26	22	NP	10
703.2	Stiff, gray, damp SILTY CLAY LOAM, little gravel --RDR 2--	8	6	6	1.64	15	683.2	Gray, saturated SILT --RDR 3--	16	12	9	2.38	15
		20	8	6			681.2	Very stiff, gray, damp SILTY CLAY --RDR 2--	16	9	10		

**GENERAL NOTES**

Begin Drilling **03-20-2019** Complete Drilling **03-20-2019**  
Drilling Contractor **Wang Testing Services** Drill Rig **D25 ATV [93%]**  
Driller **R&K** Logger **I. Nenn** Checked by **NSB (draft)**  
Drilling Method **2.25" HSA: boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling **14.25 ft**  
At Completion of Drilling **5.00 ft**  
Time After Drilling **NA**  
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	--RDR 2-- Boring terminated at 40.00 ft												

**GENERAL NOTES**

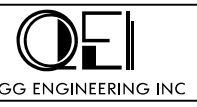
Begin Drilling **03-20-2019** Complete Drilling **03-20-2019**  
Drilling Contractor **Wang Testing Services** Drill Rig **D25 ATV [93%]**  
Driller **R&K** Logger **I. Nenn** Checked by **NSB (draft)**  
Drilling Method **2.25" HSA: boring backfilled upon completion**

**WATER LEVEL DATA**

While Drilling **14.25 ft**  
At Completion of Drilling **5.00 ft**  
Time After Drilling **NA**  
Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS  
SN. 022-0503**

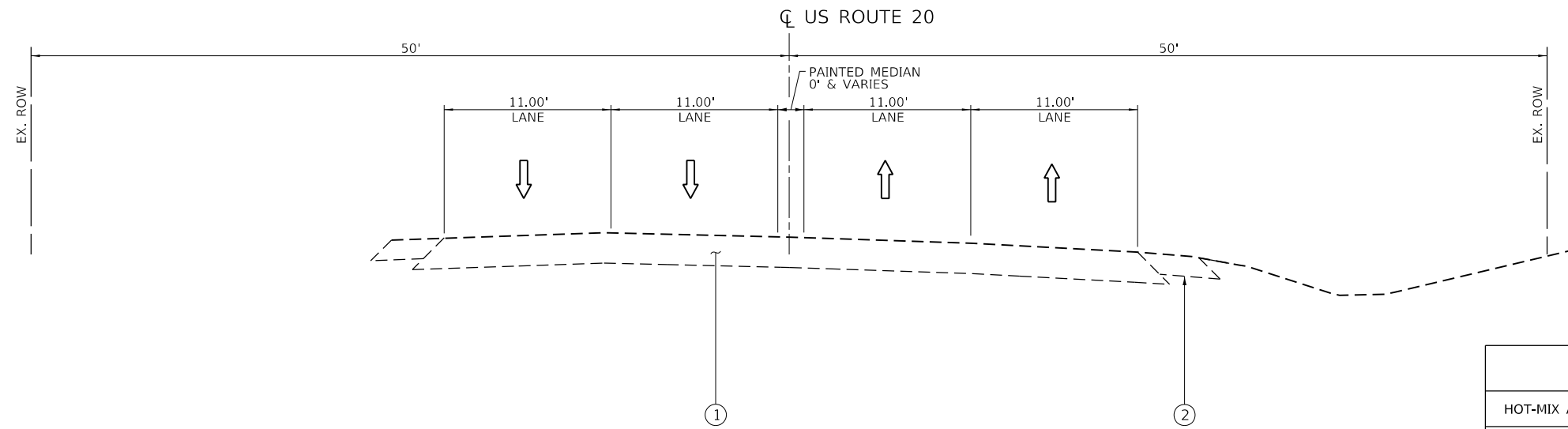
SHEET 6 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2018-110-A-I	DUPAGE	29	18
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

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	PLOTTED	BY
NOTE BOOK NO.	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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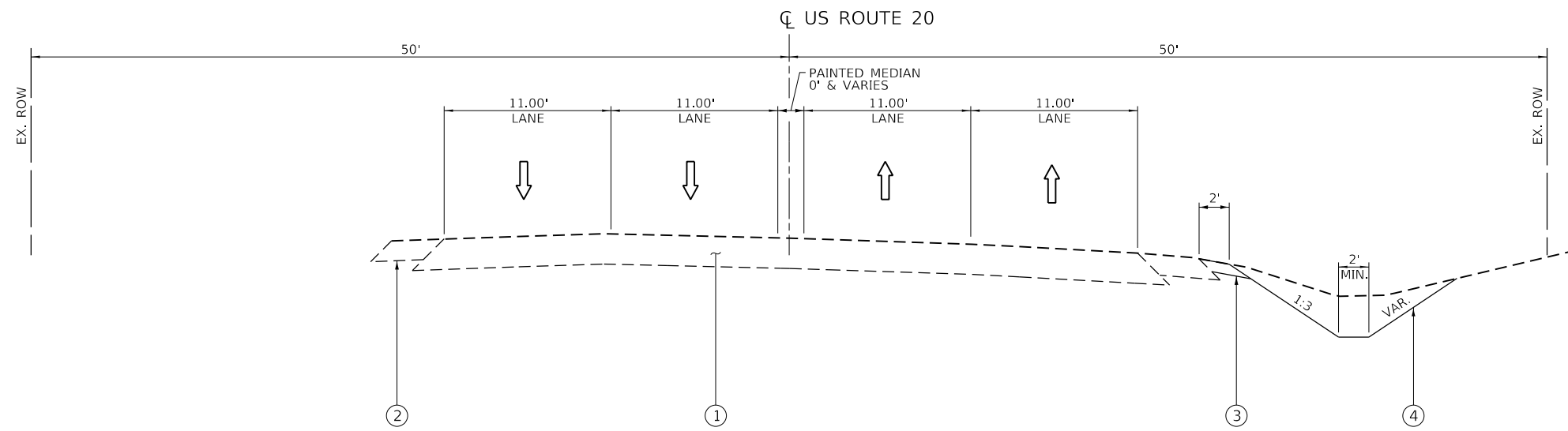
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**EXISTING TYPICAL SECTION**  
(LOOKING EAST)

**HMA MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 5"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR	QC/QA
HOT-MIX ASPHALT BASE COURSE, 3" (HMA BINDER IL-19)	4% @ 50 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)		



**PROPOSED TYPICAL SECTION**  
(LOOKING EAST)

**MIXTURE TABLE NOTES**

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

**LEGEND**

- ① EX. PAVEMENT
- ② EX. PAVED SHOULDER
- ③ PR. AGGREGATE SHOULDER
- ④ PR. GRADING & SEEDING, CLASS 2A



USER NAME = TMohammed	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
EXISTING AND PROPOSED TYPICALS**

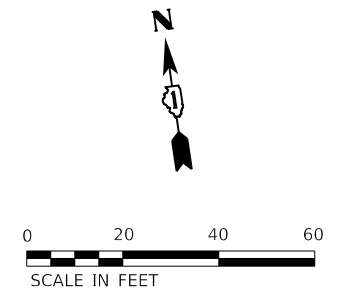
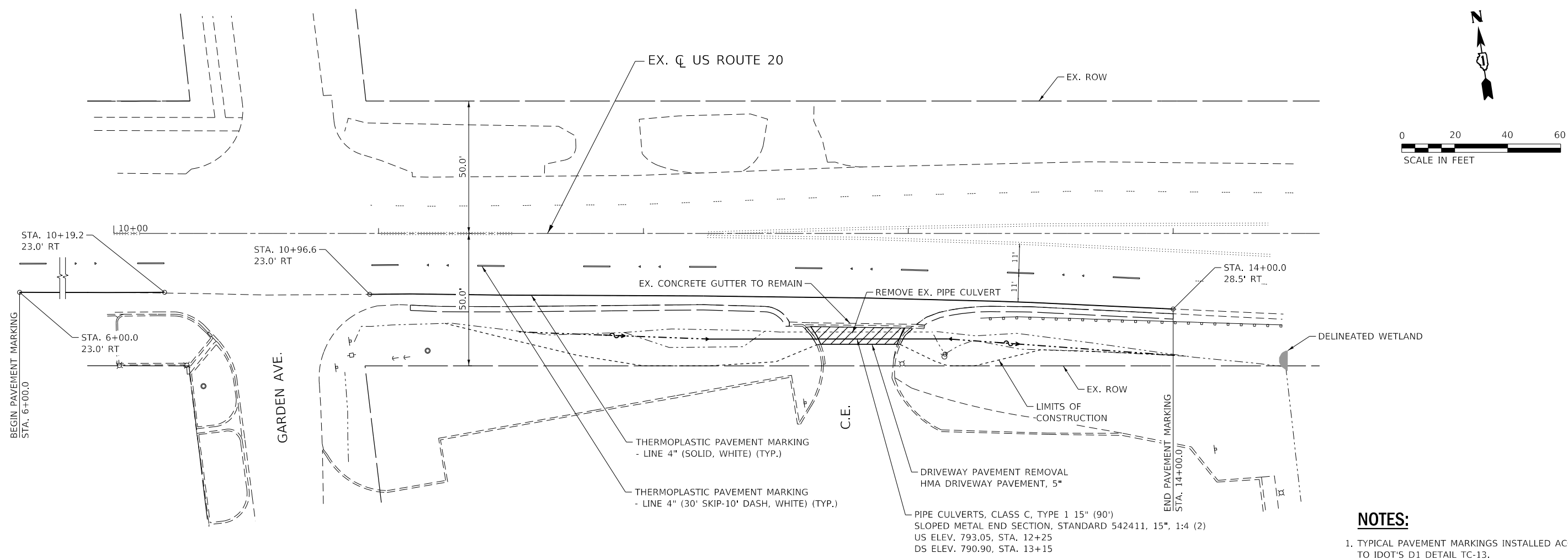
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

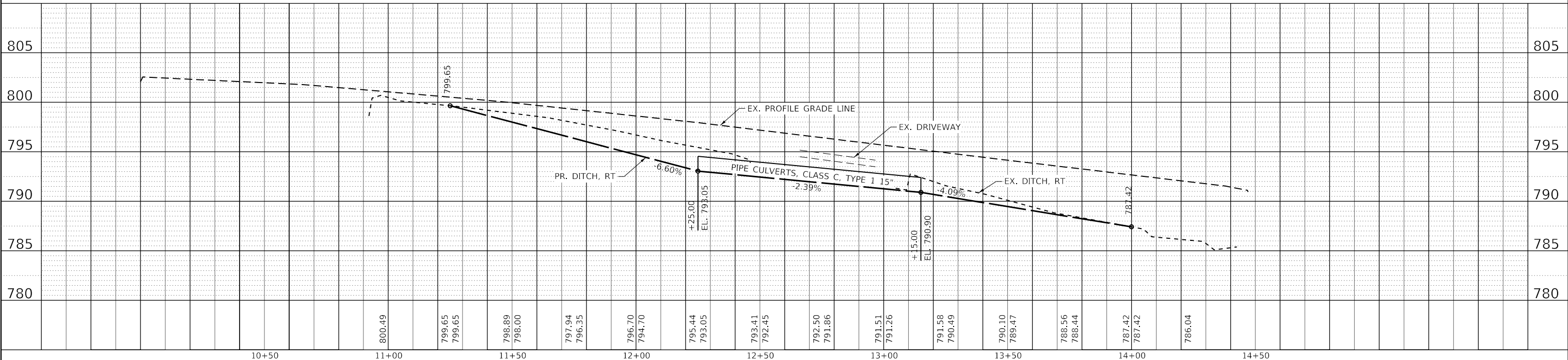
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	PLOTTED	BY
	ALIGNED	
	CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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- NOTES:**
1. TYPICAL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13.
  2. THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.



USER NAME = TMohammed	DESIGNED -	REVISD -
	DRAWN -	REVISD -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISD -
PLOT DATE = 3/29/2019	DATE -	REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

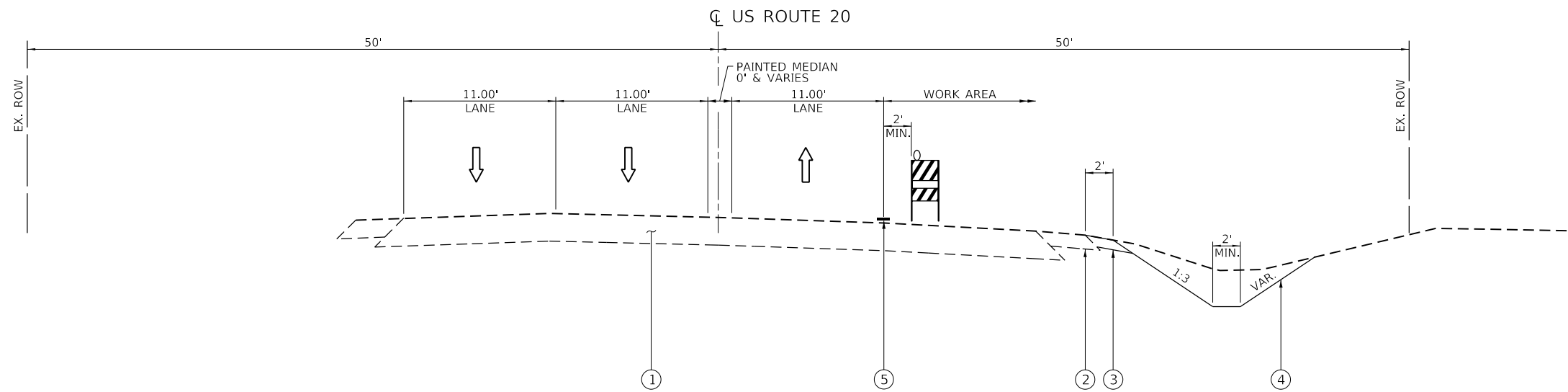
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<b>PLAN AND PROFILE &amp; PAVEMENT MARKING</b>			
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STA. 6+00	TO	STA. 14+50	

F.A.P. RTE. 021	SECTION 2018-110-A I	COUNTY DUPAGE	TOTAL SHEETS 29	SHEET NO. 20
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	CADD FILE NAME		

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	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

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**STAGING TYPICAL**  
(LOOKING EAST)

**LEGEND**

- ① EX. PAVEMENT
- ② EX. PAVED SHOULDER
- ③ PR. AGGREGATE SHOULDER
- ④ PR. GRADING & SEEDING, CLASS 2A
- ⑤ TEMP. PAVEMENT MARKING TAPE, TYPE IV 4" WHITE



USER NAME = TMohammed	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
STAGING TYPICAL**

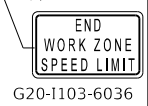
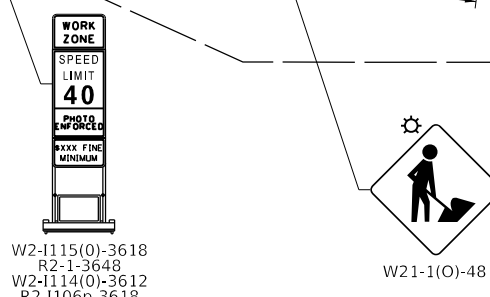
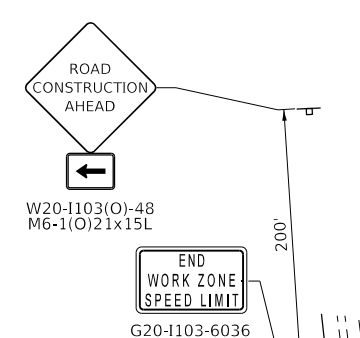
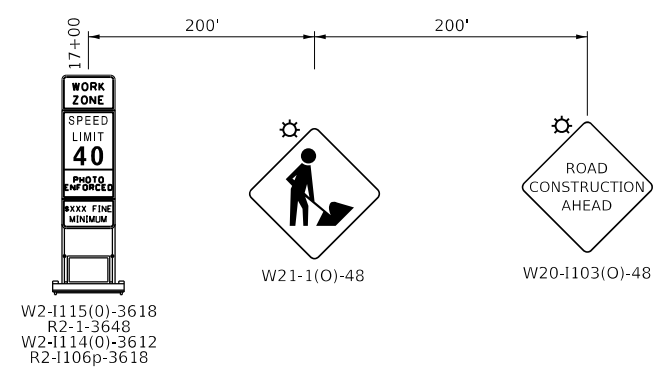
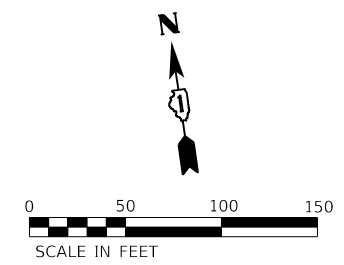
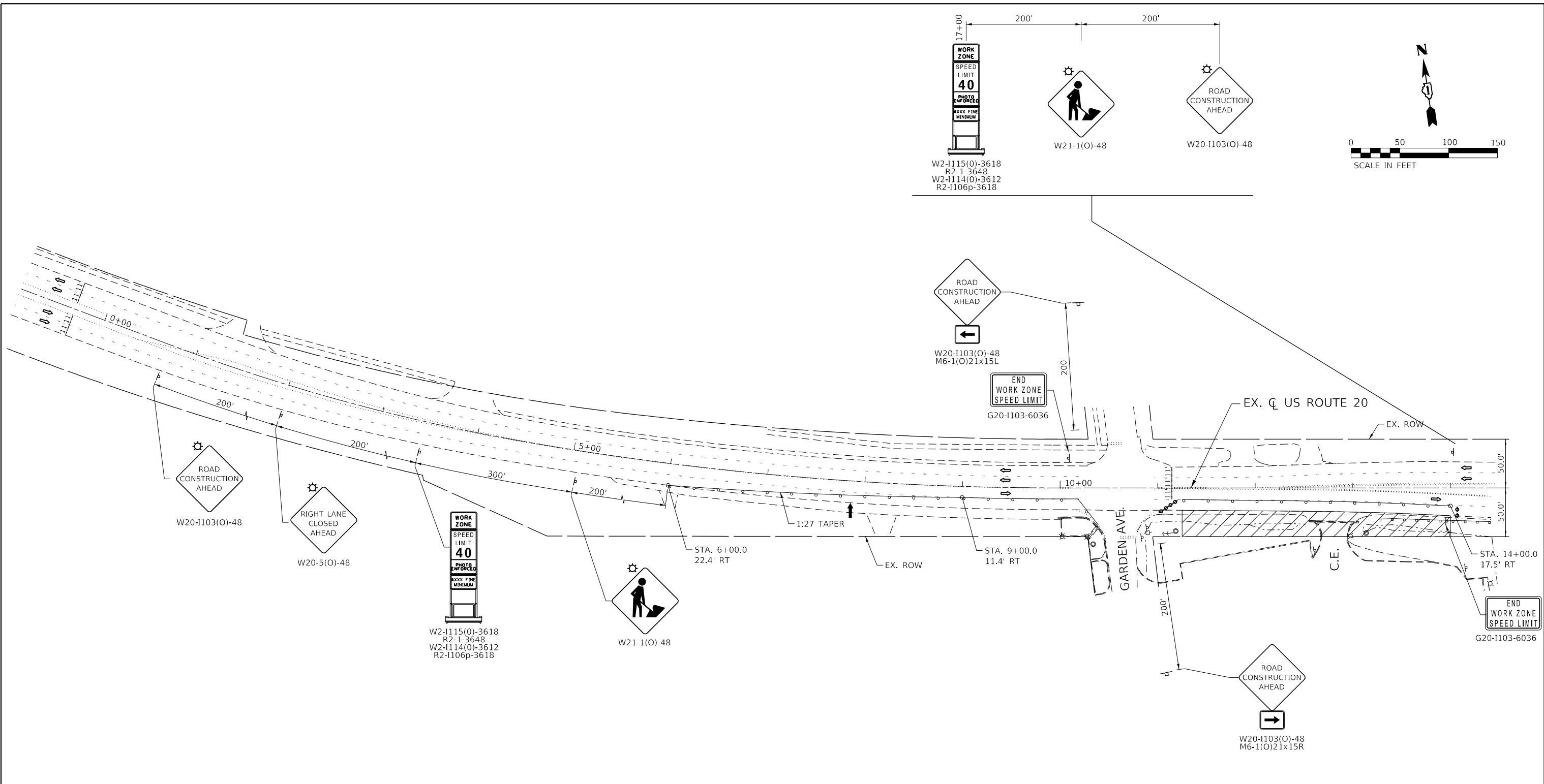
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
021	2018-110-A I	DUPAGE	29	21
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
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	STRUCTURE	
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**LEGEND**

- ARROW BOARD
- CONE, DRUM OR BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- WORK AREA
- BARRICADE OR DRUM WITH FLASHING LIGHT

**NOTES:**

1. SEE HIGHWAY STANDARD 701606 & IDOT D1 DETAIL TC-10 FOR ADDITIONAL INFORMATION.
2. CONES, DRUMS OR BARRICADES ARE AT 25' CTS., EXCEPT TAPER IS 20' CTS.



USER NAME = TMohammed	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

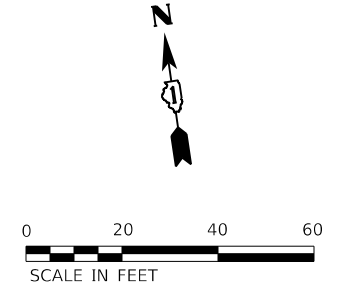
**US ROUTE 20  
 STAGING PLAN**

SCALE: 1" = 50' SHEET OF SHEETS STA. 0+00 TO STA. 14+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
021	2018-110-A I	DUPAGE	29	22
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

**NOTES:**

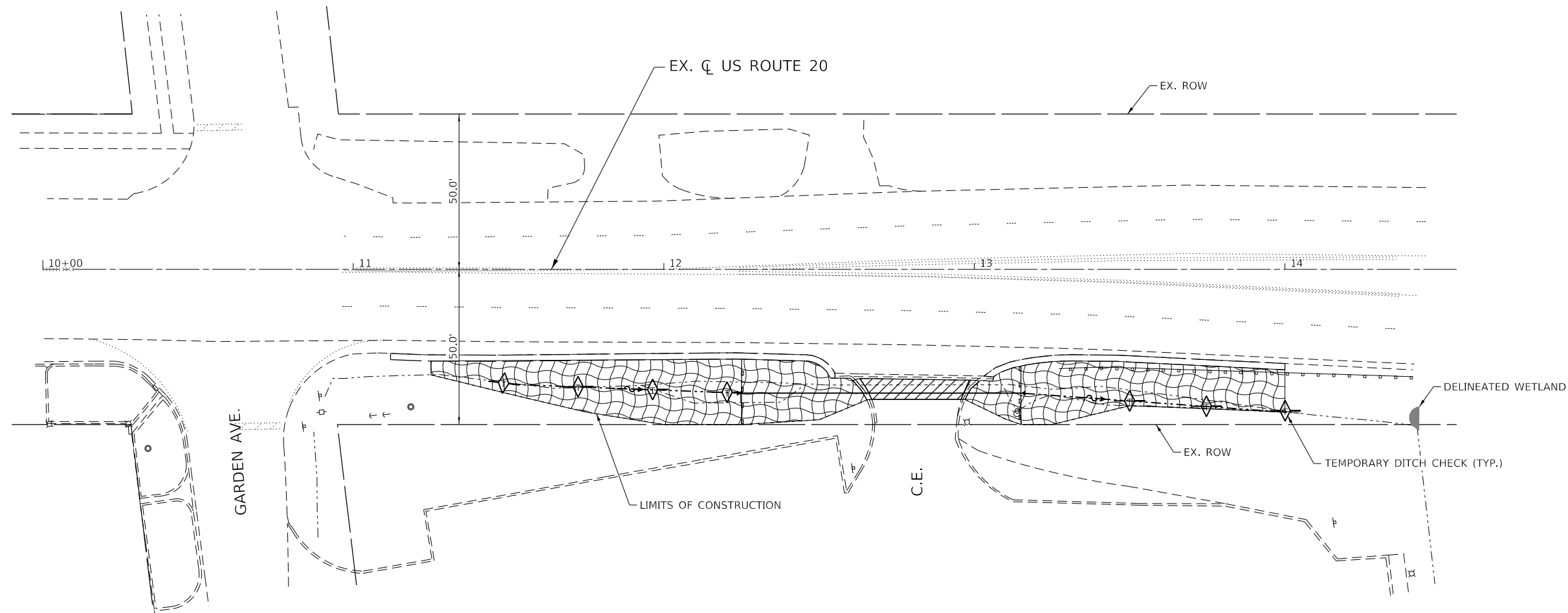
1. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
2. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
3. THE CONSTRUCTION LIMITS WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
4. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
5. NO SEDIMENT SHALL BE ALLOWED TO FLOW DOWNSTREAM AT ANY TIME. ALL WATER FROM DEWATERING OPERATIONS SHALL BE FILTERED TO REMOVE SEDIMENT BEFORE IT IS DISCHARGED DOWNSTREAM.
6. ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.
7. DUE TO STEEP SLOPES AND LIMITED R.O.W., AREAS AVAILABLE FOR EARTHWORK STOCKPILING ARE LIMITED AND SUBJECT TO APPROVAL OF THE ENGINEER.
8. TEMPORARY FENCE WILL BE USED AS WETLAND EXCLUSION FENCING AND "WETLAND NO INTRUSION" SIGNAGE POSTED AT THE BOUNDARY OF UN-IMPACTED WETLANDS WITHIN THE R.O.W. THE SIGNAGE IS AVAILABLE AT THE BUREAU OF MAINTENANCE (BOM) BY CONTACTING STEVE LIPKE (847-705-4173) TO ARRANGE PICK UP. SIGNS ARE TO BE RETURNED TO BOM AT THE END OF CONSTRUCTION. SIGN PICK UP, POSTING AND RETURN WILL BE INCLUDED IN THE COST OF TEMPORARY FENCE.
9. ALL MATERIALS USED FOR CONSTRUCTION ACTIVITIES MUST BE MOVED TO AN UPLAND AREA IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITY. NO HEAVY EQUIPMENT MACHINERY WILL BE ALLOWED WITHIN THE WETLANDS/WOVS DELINEATED AREA.



PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHECKED	

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**LEGEND:**

- PERIMETER EROSION BARRIER
- HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL W/SEEDING CLASS 4 (MODIFIED)
- FLOW
- WETLAND
- TRAFFIC FLOW DIRECTION

**SEEDING AND EROSION CONTROL SCHEDULE**

LOCATION	SIDE	2110615 TOPSOIL, FURNISH & PLACE, 4"	X2501800 SEEDING, CLASS 4 (MODIFIED)	X2510635 HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL
STATION TO STATION	LT/RT	(SQ YD)	(ACRE)	(SQ YD)
US 20				
11+25 TO 12+67	RT	256		256
13+15 TO 14+00	RT	176		176
TOTAL		432	0.1	432



USER NAME = TMohammed	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/29/2019	CHECKED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
EROSION CONTROL PLAN**

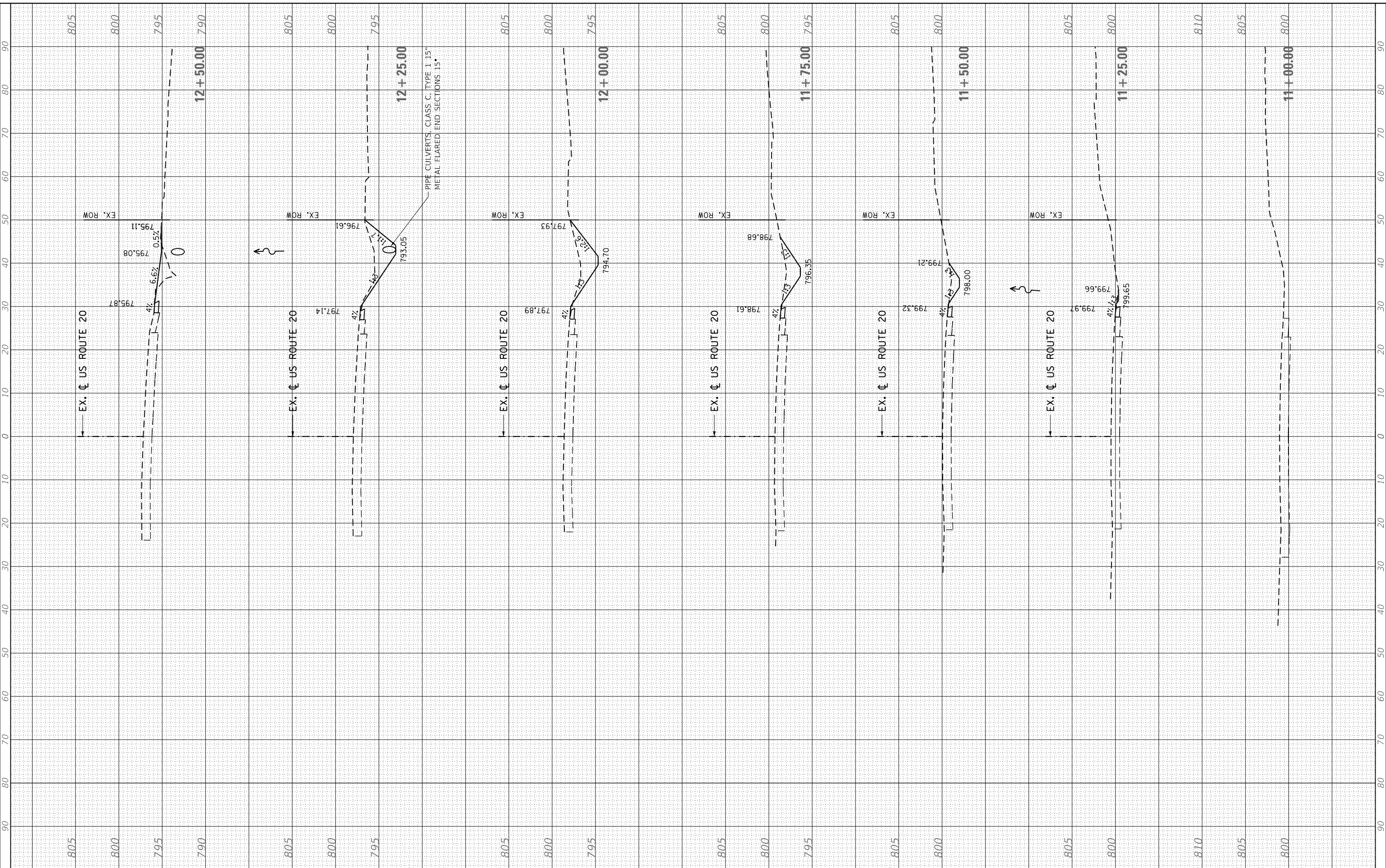
SCALE: 1" = 20'    SHEET    OF    SHEETS    STA. 10+00    TO STA. 14+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
021	2018-110-A I	DUPAGE	29	23
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
 CROSS SECTIONS**

SCALE: 10H 5V SHEET OF SHEETS STA. 11+00.00 TO STA. 12+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
021	2018-110-A1		29	24
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				



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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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QUIGG ENGINEERING INC

USER NAME =	TMohammed
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DATE -	
PLOT SCALE =	20.0000' / in.
PLOT DATE =	3/29/2019

DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

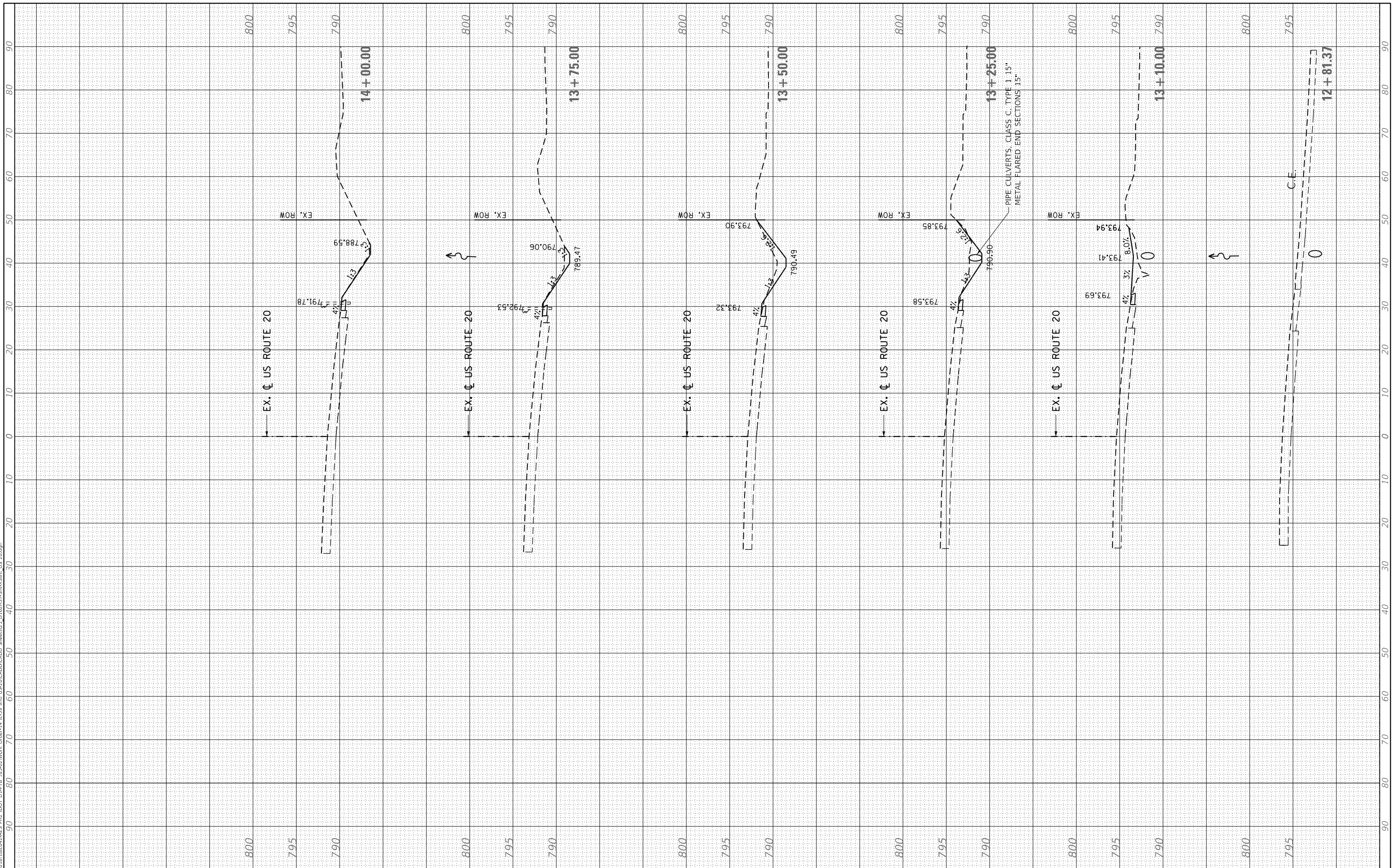
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US ROUTE 20  
 CROSS SECTIONS

SCALE: 10H 5V SHEET OF SHEETS STA. 12+81.37 TO STA. 14+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
021	2018-110-A1	DUPAGE	29	25
CONTRACT NO. 62H37				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
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	STRUCTURE NOTATIONS CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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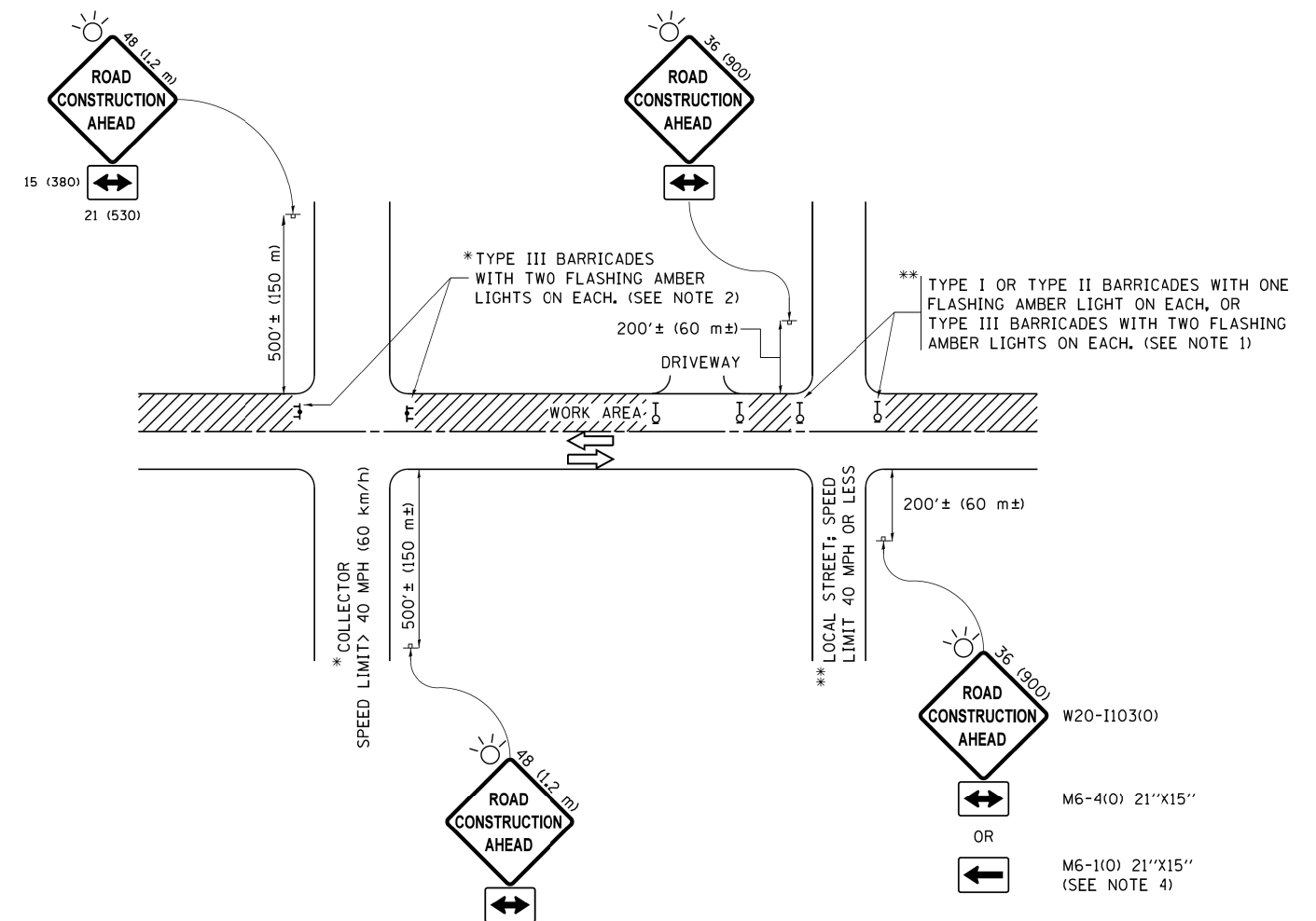
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Default	PLOT SCALE = 50.000' / in.	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2018-110-A 1	DUPAGE	29	26
<b>TC-10</b>		CONTRACT NO. 62H37		
ILLINOIS FED. AID PROJECT				



**NOTES:**

- 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:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - 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.
  - 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.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 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).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

\* US 20: 021 / IL 59: 338

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



PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

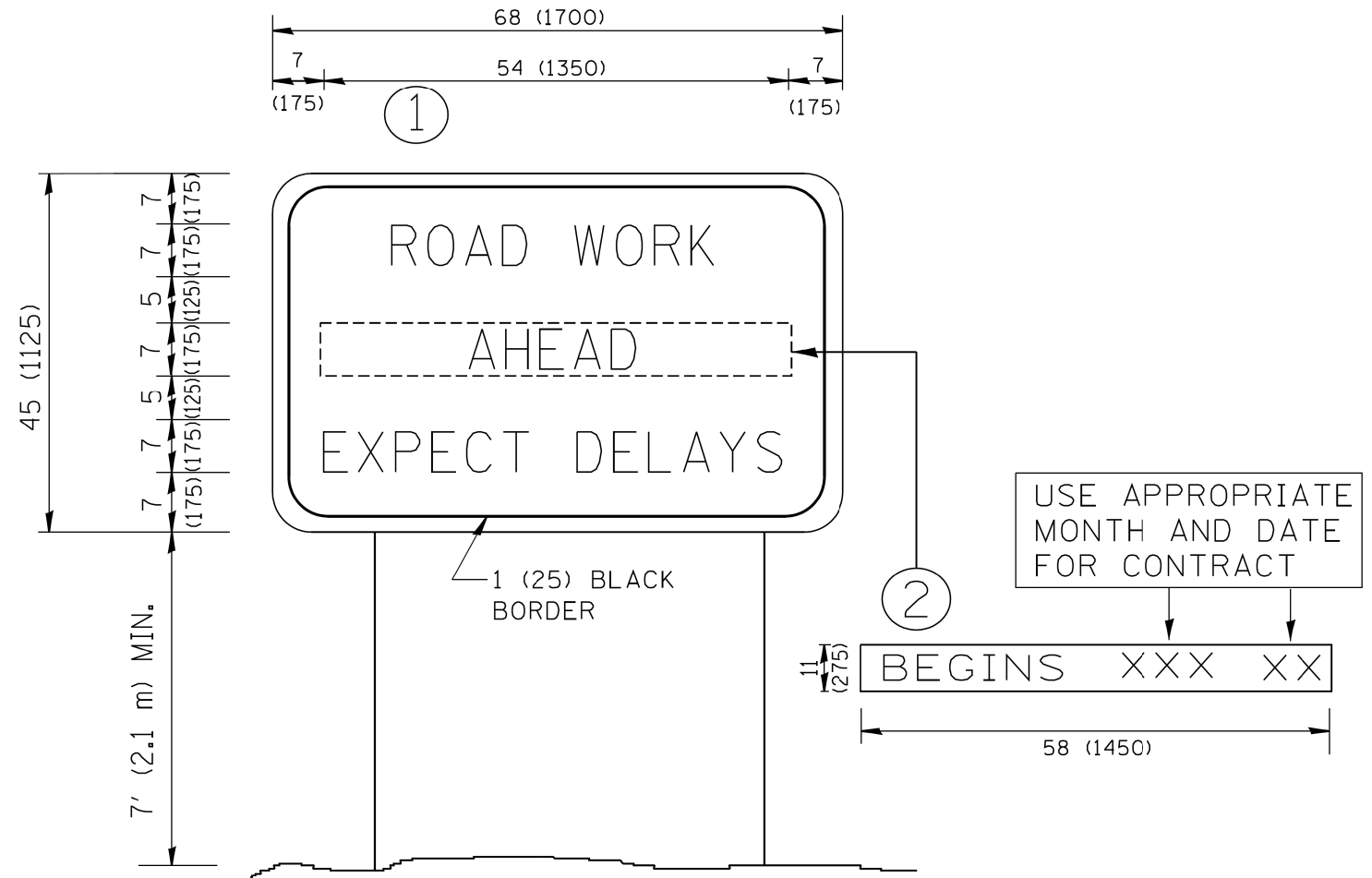
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FILE NAME =	USER NAME = goglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ARTERIAL ROAD INFORMATION SIGN</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2018-110-A 1	DUPAGE	29	28
<b>TC-22</b>		CONTRACT NO. 62H37		
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.

\* US 20: 021 / IL 59: 338

