FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN

THE VILLAGE OF GRAYSLAKE

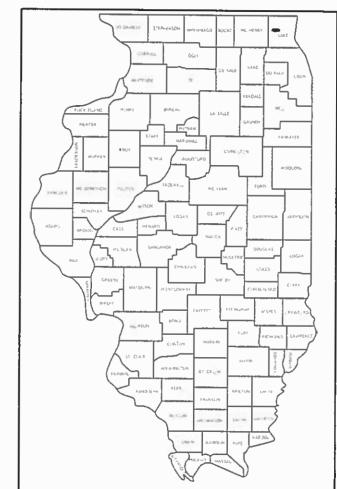
TRAFFIC DATA

2017 ADT = 18000

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

D-91-012-19



STATE OF ILLINDIS DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS; - -

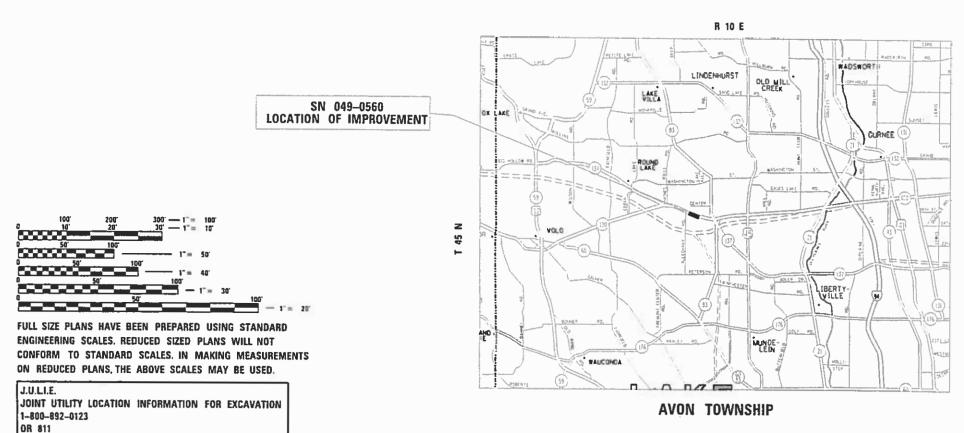
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROPOSED HIGHWAY PLANS

FAP ROUTE 333: IL 120 (BELVIDERE ROAD)
OVER CREEK WEST OF IL-83 (SN 049-0560) SECTION: 2018-073-I CULVERT REPAIR

C-91-211-19

SPEED LIMIT = 35 MPH LAKE COUNTY



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

CONTRACT NO. 62H18

INDEX	(OF SHEETS	STANDARD NO.	DESCRIPTION
SHEET NO.	DESCRIPTION	280001-07	TEMPORARY EROSION CONTROL SYSTEM
1	COVER SHEET	701001-02	OFF-ROAD OPERATIONS 2L, 2W MORE THEN 15' AWAY
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES	701006-05	OFF ROAD OPERATIONS, 2L, 2W 15' TO 24" FROM PAVEMENT EDGE
3	SUMMARY OF OUANTITIES	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
4	SITE PLAN	701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
5	ROADWAY PLAN DETAIL	701901-08	TRAFFIC CONTROL DEVICES
6-8	STRUCTURE PLAN		
9	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)		
10	INFORMATION SIGN (TC-22)		

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF GRAYSLAKE.

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

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 (72 HOURS IN ADVANCE OF BEGINNING WORK).

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.

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 SUBMJT 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 WITH THE EXCEPTION OF COFFERDAMS
WHICH WILL BE PAID FOR AS COFFERDMAN (TYPE 1) (IN-STREAM /WETLAND
WORK) WITH A BASIS OF PAYMENT OF EACH.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

	USER NAME = hassann	DESIGNED =	REVISED +
- 1		DRAWN -	REVISED =
Ī	PLOT SCALE = 100.0000 * / in.	CHECKED	REVISED =
1	PL®T DATE = 4/25/2019	DATE -	REVISED =

100% STATE 100% STATE

	SUMMARY OF QUANTITIES		00% STAT	_	CC	NSTRUCTIO	N TYPE C	ODE			SUMMA	ARY OF QUANTITIES		00% STAT		CO	NSTRUCTION TY	PE CODE	
CODE NO	ITEM	UNIT	URBAN TOTAL OUANTITIES	ROADWAY 0013 URBAN						CODE NO		ITEM	UNIT	TOTAL OUANTITIES					
20200100	EARTH EXCAVATION	CU YD	42	42															55
										66901002	ON-SITE MONIT	ORING OF REGULATED SUBSTANCES	CAL DA	10	10				
21101630	TOPSOIL FURNISH AND PLACE, 8"	SO YD	47	47															25
										66901003	REGULATED SUE	STANCES FINAL CONSTRUCTION	L SUM	1	1				
25000200	SEEDING, CLASS 2	ACRE	0.1	0. 1						66901003	REPORT		L 304	<u>'</u>					
23000200	SEEDING, CLASS 2	ACRE	0.1	0.1						57000400				_	_				
										67000400	ENGINEER'S F	FIELD OFFICE, TYPE A	CAL MO	6	6				
25000310	SEEDING, CLASS 4	ACRE	0. 1	0. 1															-
										67100100	MOBILIZATION	N	L SUM	1	1				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9															
										70102620	STANDARD 701	TROL AND PROTECTION. 1501	L SUM	1	1				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9						x0900075	COFFERDAM (TY	PPE I) (IN-STREAM/WETLAND WORK)	SO FT	102	102				2
										58600101	GRANULAR BAC	KFILL FOR STRUCTURES	CU YD	62.5	62.5				
25100630	EROSION CONTROL BLANKET	SO YD	60	60															
										Z0030850	TEMPORARY IN	FORMATION SIGNING	SO FT	102	102				
28000400	PERIMETER EROSION BARRIER	FOOT	140	140															
48301000	PROTECTIVE COAT	SO YD	30	30															1
50102400	CONCRETE REMOVAL	CU YD	4.6	4. 6															1
50200100	STRUCTURE EXCAVATION	CU YD	20.5	20 5															1
30200100	STRUCTURE EXCAVALION	CO 10	20.5	205															V
50300225	CONCRETE STRUCTURES	CU YD	5.3	5. 3															7.4
																			4
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1130	1130															74
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	35	35															-
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	ı															
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1														R	EV MS
FILE NAME =		IGNED =		REVISED			<u> </u>	ļ				IL-120 (BELVIDERE ROAD) OVER CDE	EK MEST UE	11_83	F.A.P.	SECTION		TOTAL SHEET SHEETS NO.
pw:\\pianroomdalJilinols	s.gov.PWIDOT\Documents\DOT Of ricas\District NProjects\Diol219\CADData\Data\Daign\Diol219\sin \Diol219\sin \D	CKED =		REVISED REVISED			n		TATE OF	ILLINOIS RANSPORT <i>A</i>	ATION	SUMMARY				333	2018-073-I	LAKE	10 3
	PLOT DATE = 3/29/2019 DAT			REVISED				, , 1001L				SCALE: SHEET NO. OF	SHEETS STA	. т	O STA.	FED. RO	AO DIST. NO. 1 ILLINOIS F		T NO. 62H18

TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	47	#4	3′-9"	
d1(E)	47	#4	2'-9"	
h(E)	6	#4	10'-4"	
*h1E)	18	#4	10'-4"	
h2(E)	6	#4	12 '- 1"	
*h3(E)	18	#4	12'-1"	
s(E)	47	#4	4'-5"	
v(E)	47	#4	13′-6"	
Concrete Re	moval		CU YD	4.6
Structure Ex	xcavation	CU YD	20.5	
Concrete Sti	ructures	CU YD	5.3	
Reinforceme	nt Bars, Ep	POUND	1130	
Granular Bad	ckfill For Si	tructures	CU YD	62.7

st0rder bars at full length and cut in field to fit

NOTES:

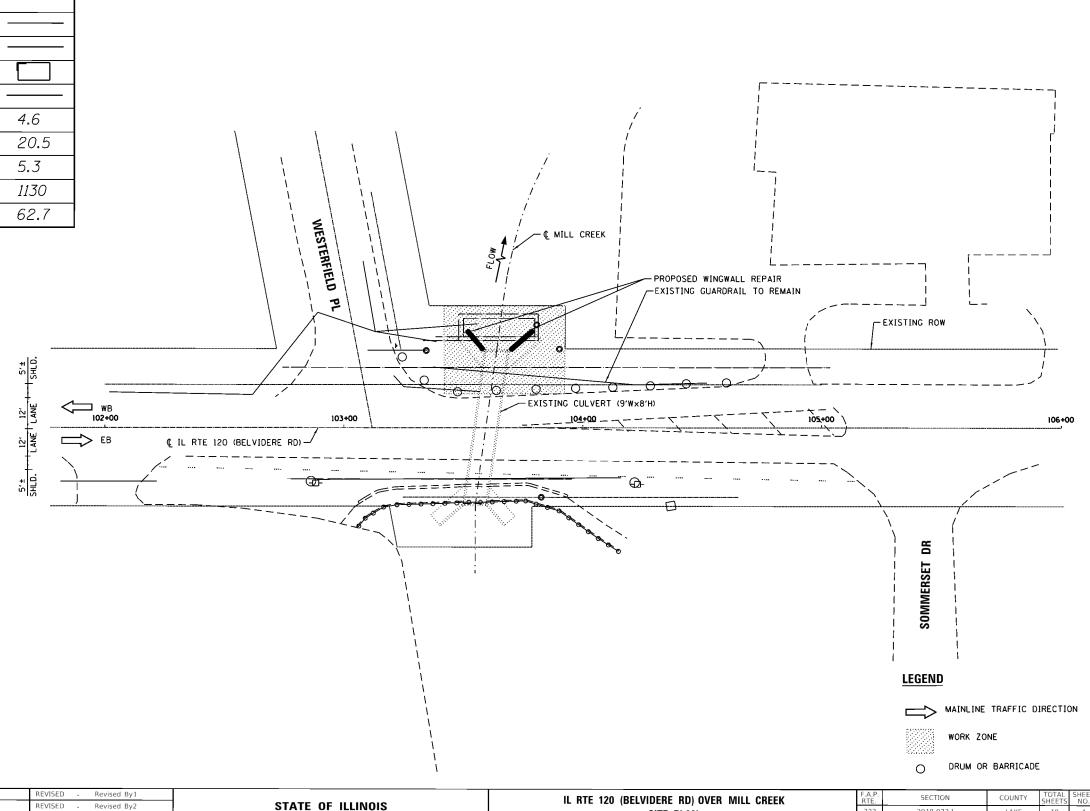
- SEE HIGHWAY STANDARD 701006 FOR SHOULDER CLOSURE DETAILS.
- 2. THE EXISTING GUARDRAIL TO REMAIN.

JSER NAME = hassan

PLOT SCALE = 40.1261 ' / ir

PLOT DATE = 4/26/2019

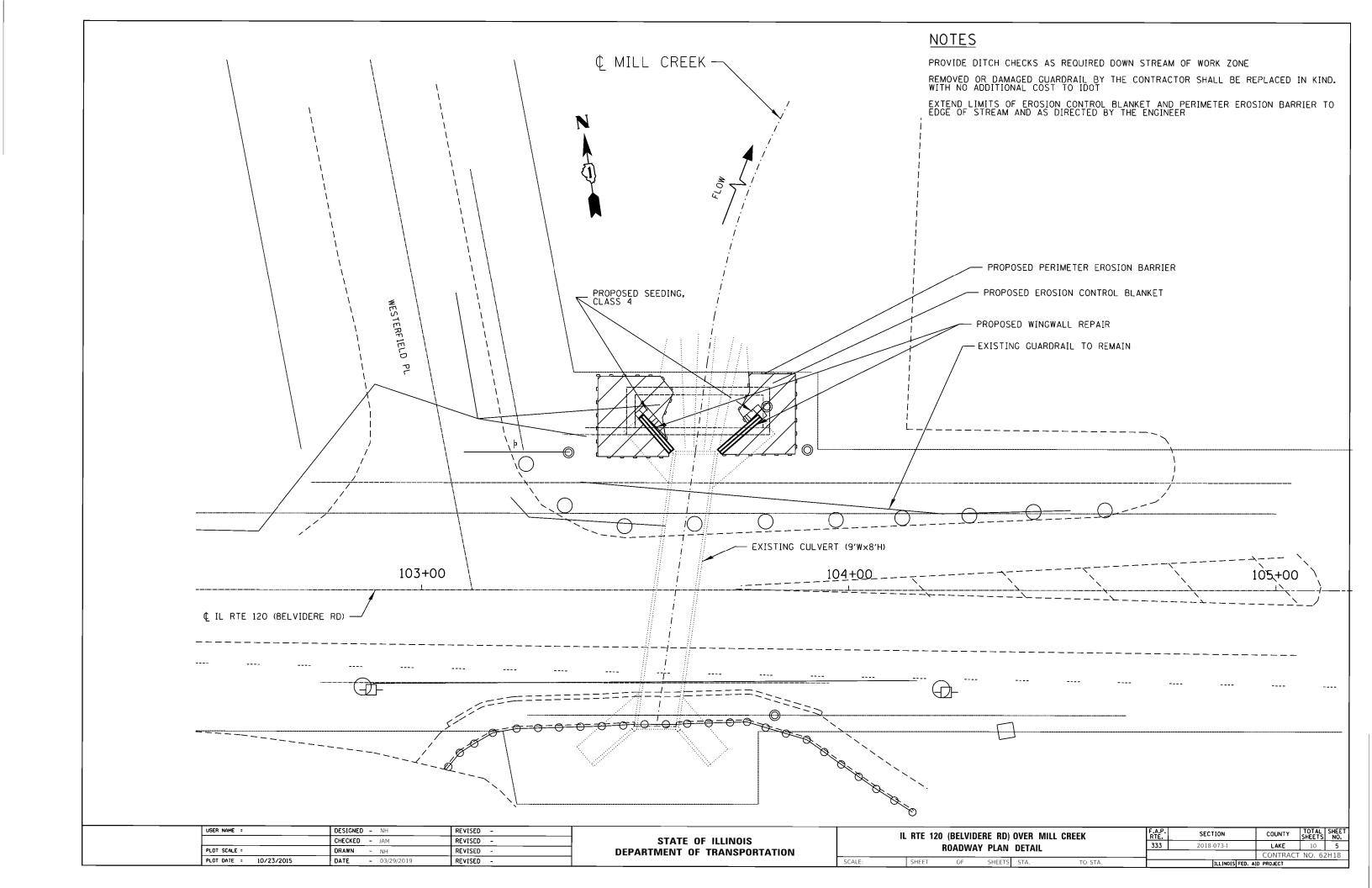
- STATIONING SHOWN IS BASED ON THE EXIST, CENTERLINE OF CULVERT BEING EQUAL TO STA, 103+59,50 AS NOTED ON HISTORICAL DRAWINGS.
- PROTECT EXISTING ROW MARKERS WITHIN THE VICINITY OF WORK, ANY DAMAGE WILL BE AT THE CONTRACTOR'S OWN EXPENSE.

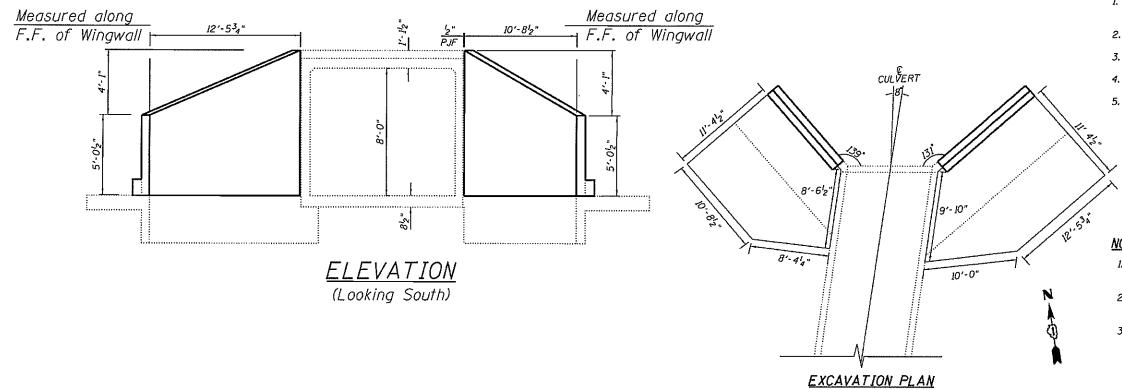


MODEL: Default

DEPARTMENT OF TRANSPORTATION

IL RTE 120 (BELVIDERE RD) OVER MILL CREEK
SITE PLAN





Topsoil Varies from 7'-9" to 11'-42" Limits of Excavation Limits of Backfill Varies from 7'-9" to 11' -4'2" Varies from 7'-1" to 10'-8'2" Topsoil Furnish And Place, 8" Seeding, Class 2 Varies from 5'-0½" to 9'-1½" CARL ACTION OF STRUCTURAL ENGINEER OF OF ILLIAMINATION O Earth Excavation <u>Granular Backfill</u> for Structures Structure Excavation 9" 2'-0" Varies from 4'-45" Varies from 5'-012" 9" 2'-0" to 7'-11'2" to 8'-71/2" 4'-0" See Note 3 -WALL EXCAVATION WALL BACKFILL

SCOPE OF WORK

- Remove existing damaged wingwall, cost included with Concrete Removal.
- 2. Preform structure and earth excavation.
- 3. Construct wingwall.
- 4. Apply concrete sealer to the new concrete surface.
- 5. Backfill with Granular Backfill For Structures and odd an 8" thick top soil at the top of the backfill to allow for seeding.

NOTES:

- Prior to repair of wingwall, the Engineer shall inspect footing for soundness of concrete.
- Space proposed dowel bars d(E) and dl(E) to miss existing reinforcement.
- 3. The Contractor shall exercise extreme caution during construction to make certain that construction activities. Earth and Structure Excavation will not have detrimental effects on the telephone line and manhole. Any damage to the telephone line and manhole during construction shall be repaired by the contractor at his expense at no charge to IDOT.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS

 f'_{C} = 3,500 psi (Cast-in-Place Concrete) f_{V} = 60,000 psi (Reinforcement)

EXISTING UNITS

 $f_C = 1,200$ psi (approx. $f_C = 2,667$ psi) $f_S = 20,000$ psi (Reinforcement)

LEGEND:

Existing Telephone

Existing Water Main

F.F. Front Face

B.F. Back Face

E.F. Each Face

Earth Excavation

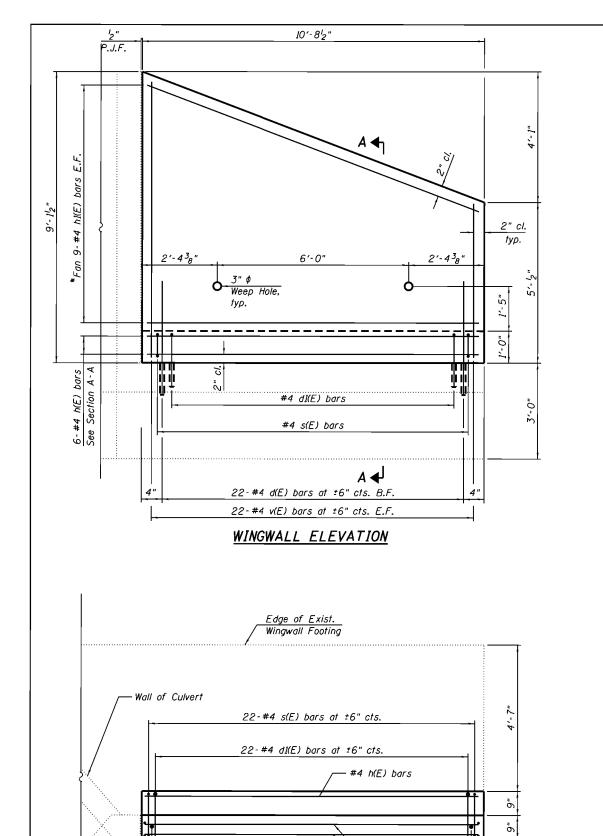
Structure Excavation

Granular Backfill for Structures

Topsoil Furnish and Place, 8"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 120 (BELVIDERE RD) OVER MILL CREEK PLAN AND ELEVATION

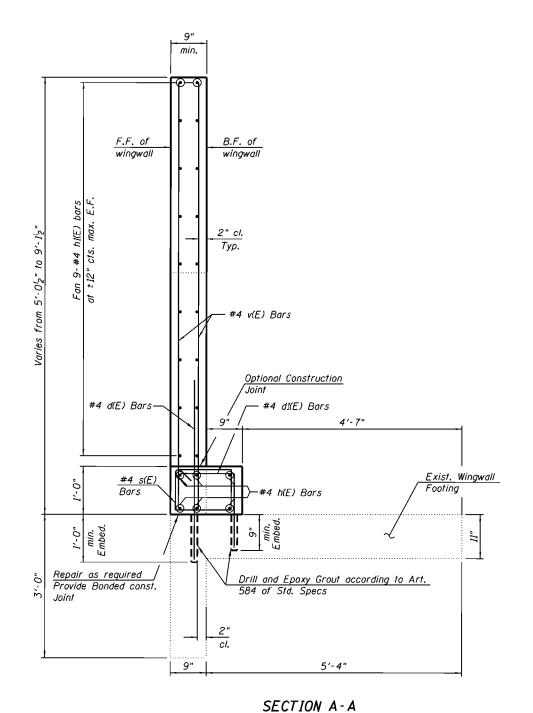


13100'

12" P.J.F.

NOTES:

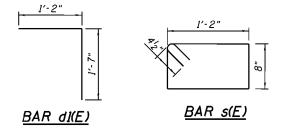
1. Space proposed dowel bars d(E) and d1(E) to miss existing reinforcement.

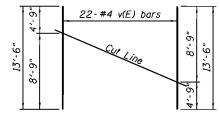


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	22	#4	3′-9"	
dl(E)	22	#4	2'-9"	
h(E)	6	#4	10'-4"	
*h1(E)	18	#4	10'-4"	
s(E)	22	#4	4'-5"	
v(E)	22	#4	13′-6"	
Concrete Re	moval		CU YD	2.1
Structure Ex	xcavation	CU YD	8.7	
Concrete Sti	ructures	CU YD	2.4	
Reinforceme	nt Bars, Ep	POUND	524	
Granular Bad	ckfill For St	ructures	CU YD	20.5

^{*}Order bars at full length and cut in field to fit





FIELD CUTTING DIAGRAM

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

LAP SPLICES

Bar	Lap
#4	2'-7"

USER NAME :	DESIGNED	-	NH	REVISED	-
_	CHECKED	-	JAM	REVISED	-
PLOT SCALE =	DRAWN	-	NH	REVISED	-
PLOT DATE = 10/23/2015	DATE	-	03/29/2019	REVISED	-

#4 h(E) or

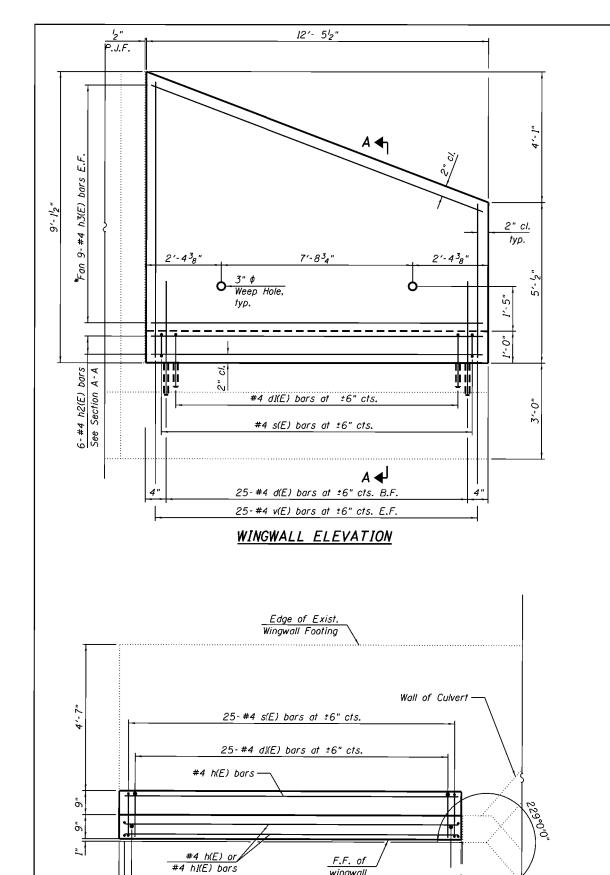
#4 d(E) bars #4 v(E) bars E.F.

10'-8¹2"

PARTIAL PLAN AT WINGWALL

#4 hI(E) bars

A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
333	2018-073-I	LAKE	10	7					
	CONTRACT NO. 62H18								
	THE TWO IS SEEN.	D DDO ICCT							



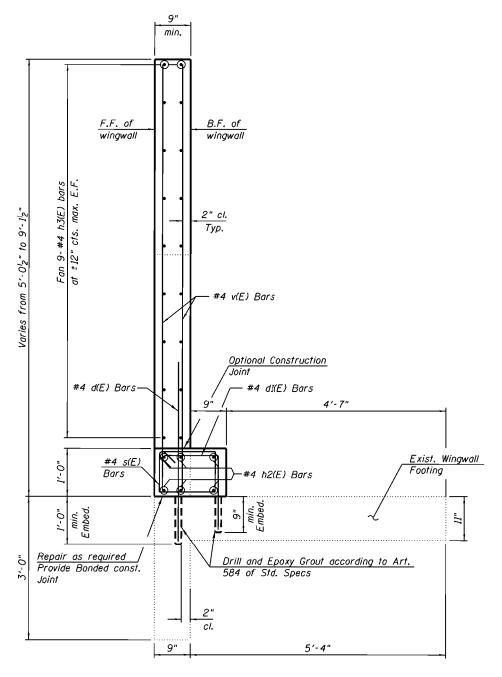
#4 d(E) bars #4 v(E) bars E.F.

12' -512"

PARTIAL PLAN AT WINGWALL

NOTES:

1. Space proposed dowel bars d(E) and d1(E) to miss existing reinforcement.

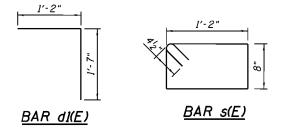


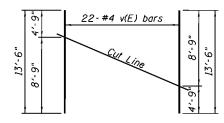
SECTION A-A

<u>BILL OF MATERIAL</u>

Bar	No.	Size	Length	Shape
d(E)	25	#4	3′-9"	
dI(E)	25	#4	2′-9"	
h2(E)	6	#4	12'-1"	
*h3(E)	18	#4	12'-1"	
s(E)	25	#4	4'-5"	
v(E)	25	#4	13′-6"	
Concrete Re	moval		CU YD	2.5
Structure Ex	xcavation	CU YD	11.8	
Concrete Sti	ructures	CU YD	2.9	
Reinforceme	nt Bars, Ep	POUND	601	
Granular Bad	ckfill For St	tructures	CU YD	42.2

^{*}Order bars at full length and cut in field to fit





FIELD CUTTING DIAGRAM

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

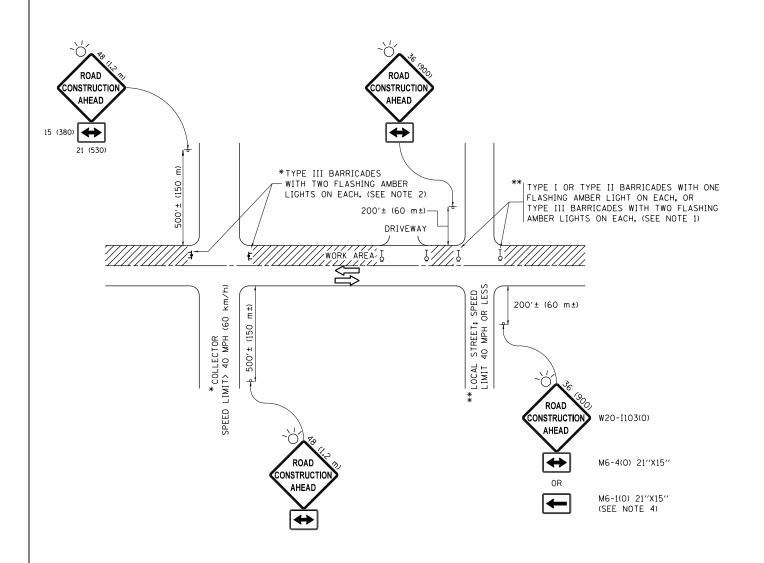
LAP SPLICES

Bar	Lap
#4	2'-7"

USER NAME :	DESIGNED - NH	REVISED -		
	CHECKED - JAM	REVISED -		
PLOT SCALE =	DRAWN - NH	REVISED -		
PLOT DATE = 10/23/2015	DATE - 03/29/2019	REVISED -		

P.J.F.

A.P. TÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
33	2018-073-I	LAKE	10	8				
		CONTRACT	NO. 6	2H18				
	In the second							



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:
 - a) 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.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEICHT
- 4. 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).

SCALE: NONE

- 5. 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.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINFER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

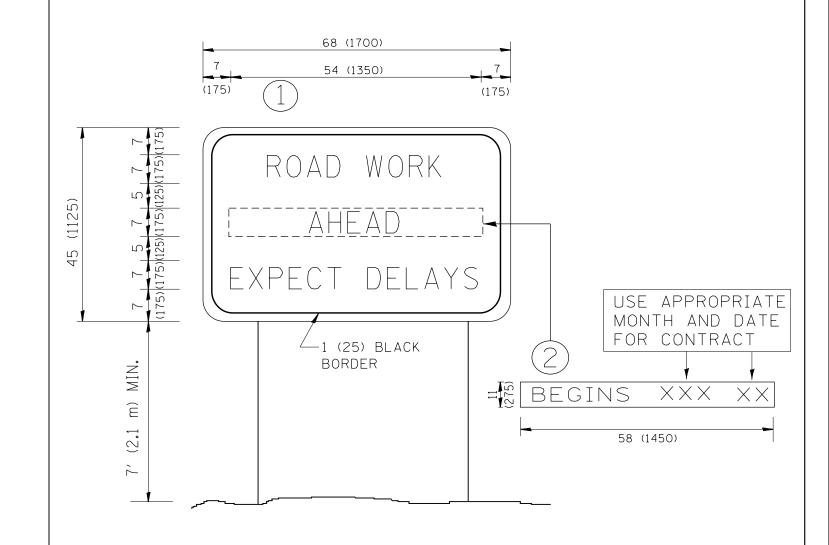
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = hassann	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw:\\planroom.dot.illinois.gov:PWIDOT\Docu	nents\IDOT Offices\District 1\Projects\D10121	\ DROXWA o\Design\DistStd.dgn	REVISED -T. RAMMACHER 01-06-00
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 3/22/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATI	STATE OF ILLINOIS						
DEPARTMENT	0F	TRANSPORTATION					

SI	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHEET 1 OF 1 SHEETS STA. TO STA.					
	SHEET 1	OF	1	SHEETS	STA.	TO STA.

	TILL INDIS FED. AT	D PROJECT				
	TC-10	CONTRACT	NO.	62H1		
333	2018-073-I	LAKE	10	9		
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.		



NOTES:

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

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

FILE NAME =	USER NAME = hassann	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.P. RTE.	SECTION	COUNTY	TOTAL S SHEETS	IEET NO.
pw://planroom.dot.illinois.gov:PWIDOT/Do		219\ DRIXWN a\Design\DistStd.dgn	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		INFORMATION SIGN		333	2018-073-I	LAKE	10	10
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION				TC-22	CONTRACT I	NO. 6.	H18	
1	PLOT DATE = 3/22/2019	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO	NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD [DIST. NO. 1 ILLINOIS FED. A	D PROJECT		\neg