#### **INDEX OF SHEETS**

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
- 3-6 SUMMARY OF QUANTITIES
- 7-9 TYPICAL SECTIONS
- 10-12 SCHEDULES
- 13-15 GUARDRAIL
- 16-18 WINGWALL MODIFICATION
- 19-22 DRAINAGE DETAILS 23 SIDE ROAD DETAILS
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#### **HIGHWAY STANDARDS**

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001006 DECIMAL OF AN INCH AND OF A FOOT

280001-07 TEMPORARY EROSION CONTROL SYSTEMS

482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS

602306-03 INLET. TYPE B

602401-04 MANHOLE TYPE A

604001-04 FRAME AND LIDS TYPE 1

606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

606101-05 TYPE A GUTTER (INLET, OUTLET, AND ENTRANCE)

630001-12 STEEL PLATE BEAM GUARDRAIL

631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6

642006 SHOULDER RUMBLE STRIPS, 8 IN.

701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY

701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24' (600 MM) FROM PAVEMENT EDGE

701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45 MPH

701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS 45 MPH

701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY 701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER

701336-06 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS 45 MPH

701901-07 TRAFFIC CONTROL DEVICES 704001-08 TEMPORARY CONCRETE BARRIER 725001-01 OBJECT AND TERMINAL MARKERS

780001-05 TYPICAL PAVEMENT MARKINGS

781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

#### **GENERAL NOTES**

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING, FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

втішту	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS	X	Χ
*FRONTIER COMMUNICATIONS	Х	Χ
*GREENE COUNTY RURAL WATER DISTRICT		X
*NEWWAVE COMMUNICATIONS		Х
*CITY OF WHITE HALL (WATER & SANITARY SEWER)		Х
*CITY OF WHITE HALL (GAS)		X

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY . NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING SHOWN IN THE PLAN SHEETS WAS CREATED USING MICROFILM. IT SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3. THE THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 4. THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES.
- 5. THE CONTRACTOR MUST MAINTAIN TWO 10' LANES WHILE UNDER TWO LANE, TWO WAY TRAFFIC.
- 6. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	LEVEL BINDER	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION (Gradation)	IL 9.5	1L 9.5FG	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "C"	MIXTURE "C"		
QUALITY MGMT PROGRAM	QCP	QCP	QC/QA	QC/QA

PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS ARE CALCULATED USING A UNIT WEIGHT OF

7. AN EMPTIED MTD WILL BE ALLOWED OVER ALL BRIDGES AND CULVERTS THROUGHOUT THE LENGTH OF THE PROJECT, THE EMPTIED MID MUST BE TRANSPORTED ON A TRANSPORT VEHICLE MUST BE PROVIDED \ TO THE ENGINEER FOR-REVIEW BY THE BUREAU OF BRIDGES AND STRUCTURES. CULVERT LOCATIONS ARE AS FOLLOWS: SN 031-2450: STA 444+27; SN 031-2451: STA 492+96; SN 031-2452: STA 505+10; SN 031-2453; STA 512+49; SN 031-2004: STA 549+50,



- 8. AN ESTIMATED QUANTITY OF (13634) TONS OF CUTTINGS FROM THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATION IS ANTICIPATED.
- 9. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- 10. THE REMOVAL OF THE EXISTING AGGREGATE SHOULDER REQUIRED FOR THE RESURFACING OF THE EXISTING HMA SHOULDER WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SHOULDERS.
- 11. THE ENGINEER SHALL NOTE BEGINNING AND END STATIONS FOR NO PASSING ZONES PRIOR TO MILLING.



- 12. THE QUANTITY OF (1326) TONS OF AGGREGATE WEDGE SHOULDER, TYPE B IS INCLUDED IN THE PLANS TO ELIMINATE THE SHOULDER DROP OFF, WHERE PRESENT. IN AREAS WHERE ADDITIONAL GRADING AND SHAPING BECOMES NECESSARY FOR FULL PLACEMENT, THE QUANTITY NEEDED SHALL BE REDUCED. MATERIAL SHALL ONLY BE PLACED WHERE SPACE ALLOWS.
- 13. THE VARIOUS THICKNESS OF HMA SURFACE REMOVAL SHOWN ON THE PLANS ARE THE AVERAGE THICKNESSES BASED UPON CONTROLLING THICKNESS AS INDICATED, DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE, HMA SURFACE REMOVAL HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF REMOVING IRREGULARITIES AND TO ESTABLISH CROSS

- 14. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO MILLED, PRIME, LEVEL BINDER, AND FINAL SURFACE. ONLY REMOVAL FROM FINAL SURFACE PAID AS SHORT TERM PAVEMENT MARKING REMOVAL.
- 15. PAVEMENT MARKINGS SHALL MATCH EXISTING MARKINGS AS DIRECTED BY THE ENGINEER.
- 16. ALL REMOVED GUARDRAIL COMPONENTS ARE THE PROPERTY OF THE CONTRACTOR AND THE SALVAGE VALUE OF SAID COMPONENTS SHALL BE REFLECTED IN THE CONTRACTOR'S BID.

#### **COMMITMENTS**

NO TREE CLEARING FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY YEAR.

/i\ REV. 4-16-2018

FILE	NAME =	USER NAME = leej	DESIGNED	REVISED -		INDEX OF SHEETS, HIGHWAY STANDARDS,	F.A.P. SECTION	COUNTY TOT	TAL SHE
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Dofm	1+	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -				CONTRACT NO	IO. 76K
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					80% FED 20% STATE	80% FED 20% STATE	100% STATE	100% STATE	100% STATE
		Γ .		T	ROADWAY	ROADWAY	BRIDGE	BRIDGE	BRIDGE
	CODE	ITC\$	UNIT	TOTAL	0005 FAS 733	0005 FAP 310	0013 031-0029	0013 031-0030	0013 031-0031
	NO.	ITEM	UNII	QUANTIT	FA3 /33	FAF SIV	031-0029	031-0030	031-0031
		COVERED TYPE A	FOOT	512		512			
	60602500	CONCRETE GUTTER, TYPE A	1001	312		0,2			
- 1-	0000000	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	375			125	125	125
*	63000003	STEEL FLATE BEAW GUANDINAIL, THE A, 91 0011 0010	1001		· · · · · · · · · · · · · · · · · · ·				
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	12			4	4	4
ক	03100003	THAT TO BRITISH TERMINAL, THE E							
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	12		-	4	4	4
•									
	63200310	GUARDRAIL REMOVAL	FOOT	1190			390	400	400
				<del> </del>					
	64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	63451	12734	50717			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	1	5			
٨	67100100	MOBILIZATION	LSUM	1	0.2	0.8			
$\Delta$ (	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 70/321	EACH		~~ ~ ~ ~		~ ~ ~		
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1		Te 0.6	0.2	{ 0 }	0.2
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	0.2	0.8			
	70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0.2	0.8			
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	11537	2328	9209			
$\triangle$	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH						
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	962	194	768			
$\triangle$	70106700	TEMPORARY RUMBLE STRIPS	EACH	6				6	
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	85535	17384	68151			
Δ	70400100	TEMPORARY CONCRETE BARRIER	Foot	262.5				262.5	1.
Ж	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	12			4	4	4
$\triangle$	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	Foot	262.5				262.5	

\* SPECIALTY ITEM

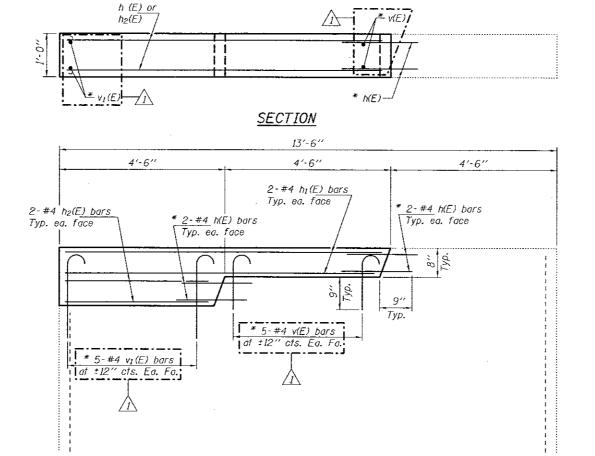
USER NAME = 1maj DESIGNED -REVISED -FILE NAME = SUMMARY OF QUANTITIES STATE OF ILLINOIS uments\IDOT Offices\District 8\Projects\D87**xXXXD**ets\G6Dzbeats\D876K31-sht-500.dgh REVISED pw:\\ILØ84EBIDINTEG. DEPARTMENT OF TRANSPORTATION REVISED -PLOT SCALE = 100.0000 '/ in. CHECKED -SHEET 3 OF 4 SHEETS STA. TO STA. SCALE: PLOT DATE = 1/29/2018 DATE REVISED -

A REV. 4-16-2018

				[	CONSTRUCTION CODE 80% FED   80% FED   100% STATE 100% STATE 100%				
i		T-			80% FED 20% STATE	20% STATE			
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005 FAS 733	0005 FAP 310	BRIDGE 0013 031-0029	BRIDGE 0013 031-0030	9013 031-0031
(	70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	1 A0 100	FAF 310	031-0029	2	031-003
	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	85535	17384	68151	~~~		
	70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	~~~~			2	
	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	255			34	35	186
	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	411	80	317	2	2	10
	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	48			16	16	16
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	411	80	317	2	2	10
	X0326223	FOAM, EXPANDING POLYURETHANE, HIGH DENSITY	POUND	2200				2200	-
	X1200073	MANHOLE REMOVAL	EACH	1		1			
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	28512	5795	22717	-		
	Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	534				534	
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	31725	6367	25358			
	Z0034105	MATERIAL TRANSFER DEVICE	TON	10371	2093	8278			
	Z0076L00	TRAINEES	Hour	1000	1000				
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	1000	1000				
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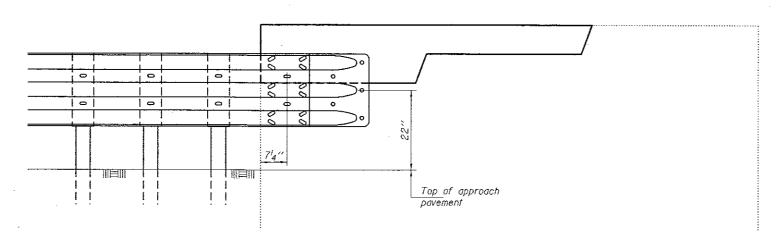
A REV. 4-16-2018

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Default	PLOT DATE = 1/29/2018	DATE -	REVISED -		SCALE:	SHEET 4	0F 4	SHEETS	STA.	TO STA.	<del></del>	ILLINOIS FED. AT		1 MO" LEKST



#### PROPOSED ELEVATION

\* Epoxy grout h(E), v(E) & v1(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated,



MAY 17, 2017

4/4/2018 VHV

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CHECKED VICTOR # Ve (:2

UHU

DRAWN

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EXAMINED

PASSED

#### GUARDRAIL LOCATION

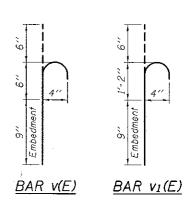
A REV. 4-16-2018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

## WINGWALL MODIFICATION US 67 OVER SEMINARY CREEK SN 031-0029 SHEET NO. 1 OF 1 SHEETS

 $\triangle$ 

# F.A.S. SECTION COUNTY TOTAL SHEETS NO. 733 (51-1,52-1,53,54,55)RS-4 GREENE 24 16 CONTRACT NO. 76K31 RLINOIS FED. AID PROJECT



<u>NOTES</u>

Plan dimensions and details relative to existing plans are subject to nominal

construction variations. The Contractor shall field verify existing dimensions and

details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

### BILL OF MATERIAL

#### 4 WINGWALLS

#4

Size Length

#4 8'-6"

#4 4'-0"

#4 2'-5"

Cu. Yd.

Pound

\_

\_\_\_

270

No.

16

40

Concrete Structures

Reinforcement Bars,

Epoxy Coated

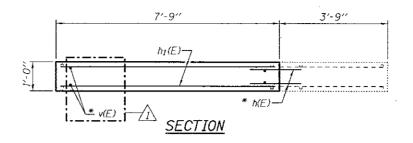
Bar

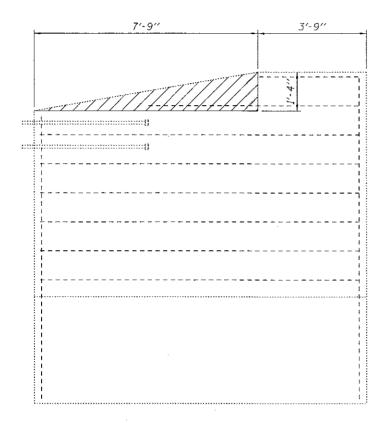
h(E)

h1(E)

ha(E)

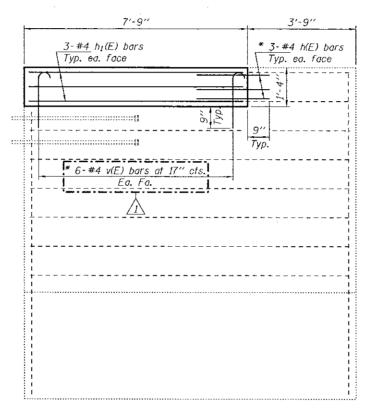
v1(E)





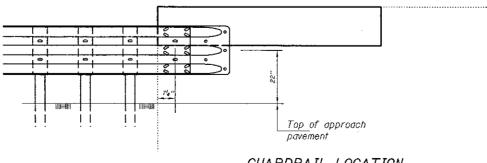
#### **EXISTING ELEVATION**

Hatched area indicates Concrete Removal.



#### PROPOSED ELEVATION

\* Epoxy grout h(E) & v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



GUARDRAIL LOCATION

△ REV. 4-16-2018

DESTONED SOLVEN DATE - MAY 17, 2017

CHECKED Unto H VOC:

DRAWN baliva PASSED PASSED ENDINEER OF STRUCTURES REVISED 4/4/2018 VHV

CHECKED OF BRIDGES AND STRUCTURES REVISED REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

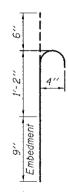
WINGWALL MODIFICATION
US 67 OVER APPLE CREEK
SN 031-0030
SHEET NO. 1 OF 1 SHEETS

| SECTION | COUNTY | TOTAL SHEET | SHEET | SHORE | SHEET | SHE

#### **NOTES**

Reinforcement bars designated (E) shall be epoxy coated.

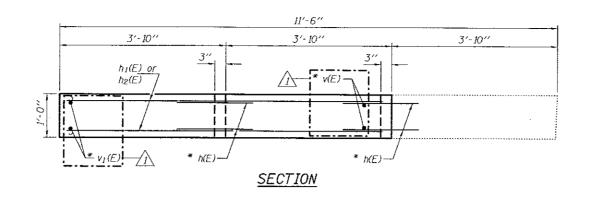
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall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

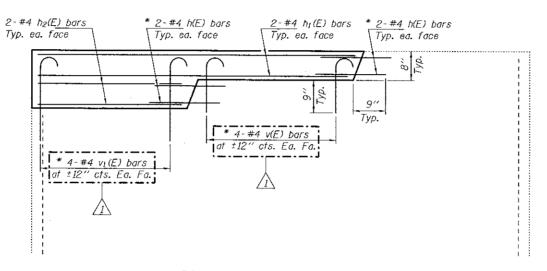


BAR V(E)

#### <u>BILL OF MATERIAL</u> 4 WINGWALLS

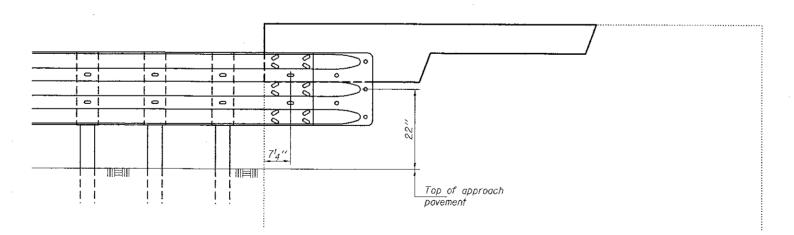
Bar	No.	Size	Length	Shape
h(E)	24	#4	1'-9"	
h1(E)	24	#4	7′-5″	
v(E)	48	#4	2'-5"	<u> </u>
	<u></u> '			
Concrete	Removal		Cu. Yd.	0.8
Concrete	Structure	S	Cu. Yd.	1.5
Reinforce Epoxy Co		Pound	220	





#### PROPOSED ELEVATION

\* Epoxy grout h(E), v(E) &  $v_1$ (E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.



#### GUARDRAIL LOCATION

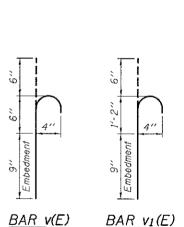
A REV. 4-16-2018

DESIGNED Virtue H Delizex	(AMINED WOU A A LATE ENGINEER OF STRUCTURAL SERVICES	DATE - MAY 17, 2017	STATE OF ILLINOIS
CHECKED V HV	ASSED A Carl Project ENGINEER OF BRIDGES AND STRUCTURES	REVISED 4/4/2018 VHV REVISED	DEPARTMENT OF TRANSPORTATION

### 14. 4-16-2018

## WINGWALL MODIFICATION US 67 OVER APPLE CREEK OVERFLOW SN 031-0031 SHEET NO. 1 OF 1 SHEETS

# F.A.P. SECTION COUNTY TOTAL SHEET NO. 310 (51-1,52-1,53,54,55)RS-4 CREENE 24 18 CONTRACT NO. 76K31 ILLIMOIS | FED. AID PROJECT



**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 at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

4 WINGWALLS

		7 11	TIVOVA	1 <u>LL3</u>	
	Bar	No.	Size	Length	Shape
	h(E)	32	#4	1'-9"	
	hı(E)	<i>1</i> 6	#4	7'-1"	
	ha(E)	<i>1</i> 6	#4	3'-3"	
		<u>-</u>	1		
	v(E)	32	#4	1'-3''	
^	V1(E)	32	#4	2'-5"	J
$I \setminus$		-1 1			
	Concrete	Structur	es	Cu. Yd.	1.1
	Reinforce Epoxy Co		Pound	230	