03-10-2023 LETTING ITEM 040 INDEX OF SHEETS

- 2. GENERAL NOTES
- 5 . SUMMARY OF QUANTITIES
- 5. TYPICAL SECTIONS

COVER SHEET

7. SCHEDULES

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- 8. TRAFFIC CONTROL FOR ROAD CLOSURE
- 9. PLAN DETAILS FOR COMMERCIAL ENTRANCE,
 - STA. 69+69 RT. (DRISCCLL LUBE)
- 10 . GENERAL PLAN AND ELEVATION FOR STRUCTURE NO. 053-2593
- 11. PLAN DETAILS FOR SIDE ROAD, STA. 116+32 RT. (NEWPORT RD.)
- 12 . GENERAL PLAN AND ELEVATION FOR STRUCTURE NO. 053-2594
- 13 15 . PRECAST CONCRETE BOX CULVERT APRON END SECTION FOR STRUCTURE NO.'S 053-2593 AND STRUCTURE NO. 053-2594
 - .6. EROSION CONTROL BLANKET DETAILS
 - 17. EXISTING CONCRETE SLOPE WALL DETALS FOR INFORMATION ONLY
 - 18. TEMPORARY INFORMATION SIGNING

HIGHWAY STANDARDS

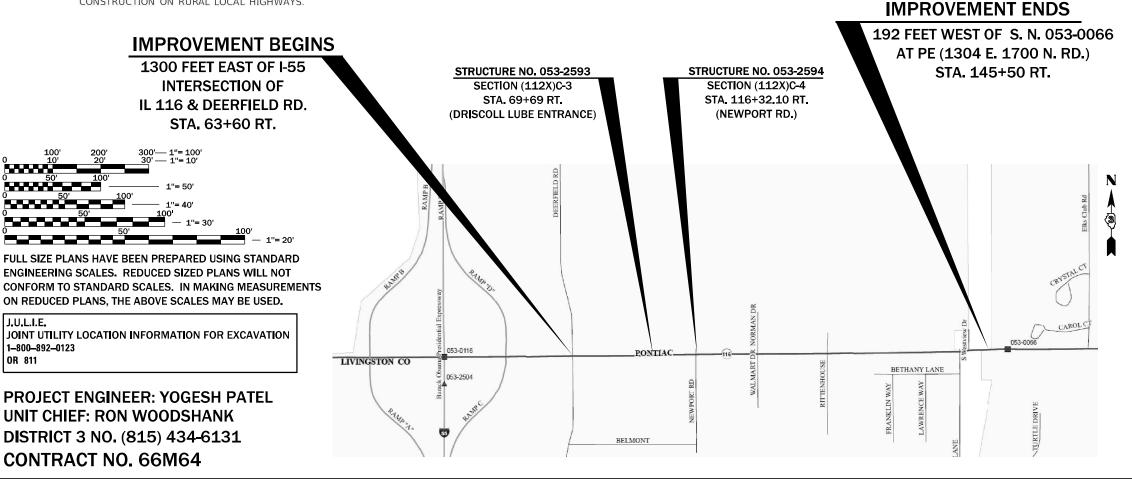
000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 001001-02 AREAS OF REINFORCEMENT BARS 001006 DECIMAL OF AN INCH AND OF A FOOT 515001-04 NAME PLATE FOR BRIDGES 604036-03 GRATE, TYPE 8 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701901-08 TRAFFIC CONTROL DEVICES B.L.R. 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS. B.L.R. 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 673 (IL 116)
SECTION (112X)CLV
CMP ENTRANCE CULVERT REM/REPL
WITH PRECAST CONCRETE
BOX CULVERTS
LIVINGSTON COUNTY

C-93-087-22

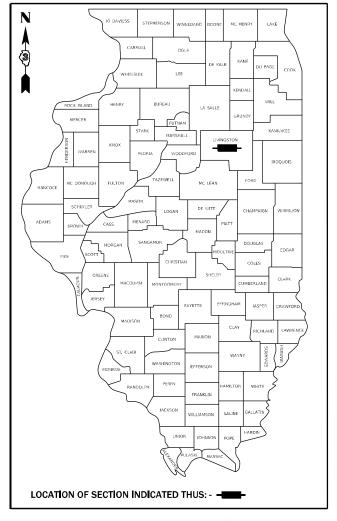


 F.A.P. RTE.
 SECTION
 COUNTY
 TOTAL SHEET NO.

 673
 (112X)CLV
 LIMINGSTON
 18
 1

 ILLINOIS
 CONTRACT NO. 66M64

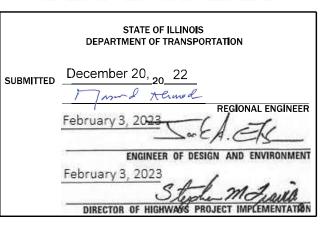
D-93-066-22



FUNCTIONAL CLASSIFICATION

URBAN OTHER PRINCIPAL ARTERIAL F.A.P. ROUTE 673 (IL 116) 2019 ADT = 11.900

P.V. 89.1 % S.U. 4.4 % M.U. 6.5 %



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

FILE NAME =

USER NAME = ronald.woodshank

PLOT DATE = 12/19/2022

s\District 3\Projects\D366M64\CADData\CADsheets\D366M64-PL**DRAMM** - RW

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 WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PRECAST BOX CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN "FURNISHED EXCAVATION".

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN

HMA MIXTURE REG	QUIREMENT T	ABLE		
LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT		
MIXTURE USE(S):	HMA FULL DEPTH	HMA FULL DEPTH		
	BOTTOM LIFT(S)	TOP LIFT		
BINDER GRADE (PG):	PG64-22	PG64-22		
DESIGN AIR VOIDS:	4.0% @N70	4.0% @ N70		
MIXTURE COMPOSITION:	IL 19.0	IL 9.5		
(MIXTURE GRADATION)				
FRICTION AGGREGATE:		MIXTURE D		
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN		
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA		
SUBLOT SIZE:	NA	NA		
DENSITY TEST METHOD:	CORES/NUCLEAR	CORES/NUCLEAR		
MATERIAL TRANSFER DEVICE (REQUIRED)	NO	NO		

REVISED -

REVISED -

REVISED

REVISED

DESIGNED - RW

- 6/4/2022

DATE

COMMITMENTS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

THE ENGINEER SHALL NOTIFY ADJACENT BUSINESSES, EMERGENCY SERVICES, COUNTY ENGINEER A MINIMUM OF 72 HOURS IN ADVANCE OF CLOSING A SIDE ROAD OR COMMERCIAL ENTRANCES THE ENGINEER SHALL ALSO SUPPLY AN APPROXIMENT LENGTH OF CLOSURE.

	STATE OF TEEHNOLS		
	DEPARTMENT OF TRANSPORTATION		
	DISTRICT THREE		
	AS BUILT INFORMATION		STATE OF ILLINOIS
		Г	DEPARTMENT OF TRANSPORTATION
			DISTRICT THREE
	SUPERVISING CONSTRUCTION FIELD ENGINEER		
		PREPARED BY:	
		THEITHER BT.	DISTRICT STUDIES & PLANS ENGINEER
	RESIDENT ENGINEER / TECHNICIAN		DISTRICT STUDIES & FLANS LINGINEER
	RESIDENT ENGINEER / TECHNICIAN	DATE:	
CTART C FUR RATES		DATE:	
START & END DATES			
OF CONSTRUCTION:			
		EXAMINED BY:	
			DISTRICT CONSTRUCTION ENGINEER
INSPECTORS:			DISTRICT CONSTRUCTION ENGINEER
			DISTRICT MATERIALS ENGINEER
			DISTRICT OREDATIONS ENGINEER
			DISTRICT OPERATIONS ENGINEER

GENERAL NOTES

SHEET 1 OF 1 SHEETS STA.

COUNTY TOTAL SHEETS NO.

LIVINGSTON 18 2

CONTRACT NO. 66M64

SECTION

(112X)CLV

673

TO STA.

STATE OF ILLINOIS

SCALE:

				CONTRACT MAINTENANCE
				CONTRACT MAINTENANCE
				100% STATE
				BOX CULVERT
CODE			TOTAL	0004
NO.	ITEM	UNIT	QUANTITY	URBAN
20400800	FURNISHED EXCAVATION	CU YD	56	56
20700220	POROUS GRANULAR EMBANKMENT	CU YD	250	250
21400100	GRADING AND SHAPING DITCHES	FOOT	1771	1771
25000210	SEEDING, CLASS 2A	ACRE	2.7	2.7
25000400	NITDOCEN EEDTILIZED NIITDIENT	DOLIND	242	242
23000400	NITROGEN FERTILIZER NUTRIENT	POUND		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	242	242
				_
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	242	242
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	9324	9324
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	115	115
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	24	24
40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SQ YD	106	106
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	135	135
44000161	HOT MIY ASDHALT SUDEACE DEMOVAL 2"	50 VD	106	106
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	100	100
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	135	135

CONSTRUCTION CODE

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED	-	RW	REVISED	-	Γ	
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Default	PLOT DATE = 12/19/2022	DATE	-	6/4/2022	REVISED	-		

SCALE:

							F.A.P. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	SUN	/IMA	RY	OF QU	ANTII	IES	673	(112X	()CLV		LIVINGSTON	18	3
											CONTRAC	T NO. 6	5M64
SHEET	1	OF	3	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	D PROJECT		

				CONTRACT MAINTENANCE 100% STATE
				BOX CULVERT
CODE			TOTAL	0004
NO.	ITEM	UNIT	QUANTITY	URBAN
110.	1120	OWIT	QUANTITI	ONDAN
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	121	121
50104650	SLOPE WALL REMOVAL	SQ YD	136	136
30104030	SECTE WALL REPOVAL	34 15	150	150
50105220	PIPE CULVERT REMOVAL	FOOT	354	354
51500100	NAME PLATES	EACH	2	2
5400100	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2	2
54010804	PRECAST CONCRETE BOX CULVERTS 8' X 4'	FOOT	120	120
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	121	121
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	392	392
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
6690100	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1,
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
66901000	REGULATED SUBSTANCES MONITORING	CAL DA	4	4
67100100	MOBILIZATION	L SUM	1	1

CONSTRUCTION CODE

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -				F.A.P.	SECTION	COUNTY TOTAL SHEET
pw:\\illdot-pw.bentley.com:PWIDOT\Documents\IDOT Off	ces\District 3\Projects\D366M64\CADData\CADsheets\D366M6	4-PL DRAMIN - RW	REVISED -	STATE OF ILLINOIS		SUMMARY OF QUANTITIES	673	(112X)CLV	LIVINGSTON 18 4
	PLOT SCALE = 100.0000'/in.	CHECKED - YP	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 66M64
Default	PLOT DATE = 12/19/2022	DATE - 6/4/2022	REVISED -		SCALE:	SHEET 2 OF 3 SHEETS STA. TO STA.		ILLINOIS FED.	NID PROJECT

^{*=} SPECIALTY ITEM

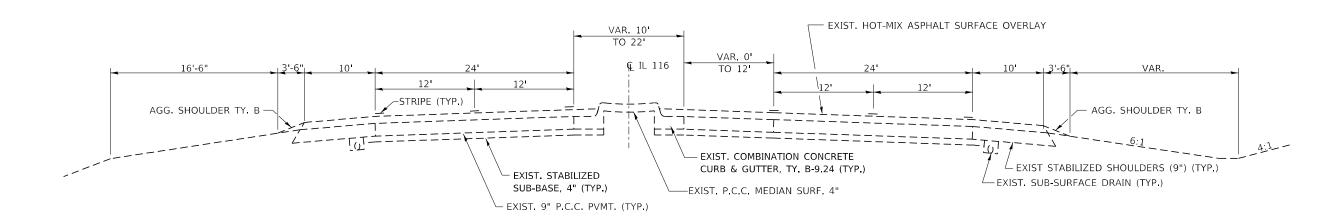
				CONSTRUCTION CODE
				CONTRACT MAINTENANCE
				100% STATE
				BOX CULVERT
CODE			TOTAL	0004
NO.	ITEM	UNIT	QUANTITY	URBAN
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	40	40
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	164	164

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED _	
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	PLOT SCALE = 100.0000 '/in.	CHECKED - YP	REVISED -	DEF
Default	PLOT DATE = 12/19/2022	DATE _ 6/4/2022	REVISED _	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

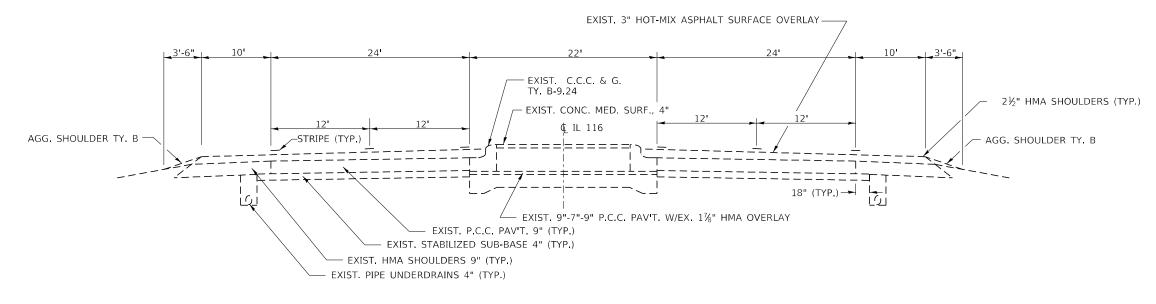
SCALE:

					0= 011			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SUN	IMA	KY	OF QUA	ANIII	IES []	673	(112X)CLV	LIVINGSTON	18	5
										CONTRAC	T NO. 66	M64
SHEET 3 OF 3 SHEETS STA. TO STA.									ILLINOIS FED. A	D PROJECT		



TYPICAL SECTION 1

STA. 60+00 - STA. 72+00



TYPICAL SECTION 2

STA. 72+00 = STA. 112+33.48 STA. 112+33.48 TO 133+50

FILE NAME =	USER NAME = ronald woodshank	DESIGNED - RW	REVISED -					F.A.P.	SECTION	COUNTY TOTAL SHEET
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	PLOT SCALE = 100.0000 '/ in.	CHECKED - YP	REVISED -	DEPARTMENT OF TRANSPORTATION					, ,	CONTRACT NO. 66M64
Default	PLOT DATE = 12/19/2022	DATE - 6/4/2022	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT

SCHEDULES - PAVEMENT

	COMBINATION	HOT - M I X	DRIVEWAY	SUBBASE	COMBINATION	PORTLAND	HOT - MIX
	CURB	ASPHALT	PAVEMENT	GRANULAR	CONCRETE	CEMENT	ASPHALT
	AND GUTTER	SURFACE	REMOVAL	MATERIAL	CURB	CONCRETE	PAVEMENT
LOCATION	REMOVAL	REMOVAL		TYPE	AND	DRIVEWAY	(FULL-DEPTH)
LOCATION		3 "		В	GUTTER,	PAVEMENT	9 "
					TYPE	6	
					B-6.24	INCH	
	FOOT	SQ YD	SQ YD	CU YD	FOOT	SQ YD	SQ YD
C.E. STA. 69+69 RT.	72		135	33.6	72	135	
S.R. STA. 116+32 RT.	49	106		81.4	49		106
TOTALS	121	106	135	115	121	135	106

SCHEDULES - LANDSCAPING

	SCHEDULES - LANDSCAPING											
		_	GRADING	SEEDING	NITROGEN	PHOSPHORUS	POTASSSIUM	HEAVY				
			AND	CLASS	FERTILIZER	FERTILIZER	FERTILIZER	DUTY				
LOC	ΑТ	ION	SHAPING	2 A	NUITRIENT	NUITRIENT	NUITRIENT	EROSION				
			DITCHES					CONTROL				
								BLANKET				
STATION	ТО	STATION	FOOT	ACRE	POUND	POUND	POUND	SQ YD				
60+90	TO	62+90	200	0.3	27	27	27	1022				
64+30	ТО	65+30	100	0.2	14	14	14	511				
67+75	ТО	69+25	150	0.2	20	20	20	767				
* 6	9+3	7		0.01	1	1	1	68				
*	*70+01			0.01	1	1	1	68				
114+70	ТО	115+70	100	0.2	14	14	14	511				
* 1	15+8	32		0.01	1	1	1	68				
* 1	16+7	72		0.01	1	1	1	68				
119+30	ТО	121+85	255	0.4	34	34	34	1303				
127+05	TO	129+05	200	0.3	27	27	27	1022				
129+95	TO	131+45	150	0.2	20	20	20	767				
133+50	ТО	134+50	100	0.2	14	14	14	511				
140+25	TO	142+74	249	0.4	33	33	33	1273				
143+03	TO	144+00	97	0.1	13	13	13	496				
144+20	ТО	145+40	120	0.2	16	16	16	613				
145+70	ТО	146+20	50	0.1	6	6	6	256				
Т	OTA	L	1771	2.7	242	242	242	9324				

*BOX CULVERT END SECTION

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -			F.A.P.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = 100.0000'/in.	CHECKED - YP	REVISED -	DEPARTMENT OF TRANSPORTATION			, , , , , , , , , , , , , , , , , , , ,	CONTRACT	NO. 66M64
Default	PLOT DATE = 12/19/2022	DATE - 6/4/2022	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	

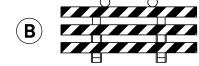








TRAFFIC CONTROL AND PROTECTION STANDARD B.L.R. 21 OR B.L.R. 22



NOTES:

- 1. COMMERCIAL ENTRANCE AT STA. 69+69 (DRISCOLL LUBE) AND THE S.R. AT STA. 116+32 (NEWPORT RD.) SHALL NOT BE CLOSED AT THE SAME TIME. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ONE OF THE ENTRANCES AT ALL TIMES.
- 2. 2 CHANGEABLE MESSAGE SIGNS SHALL BE USED WHENEVER A SIDE ROAD OR ENTRANCE IS CLOSED FOR CONSTRUCTION WORK. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
- 3. ALL LANES OF IL ROUTE 116 SHALL BE OPEN TO TRAFFIC AT THE END OF EACH WORK DAY WHENEVER TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 IS BEING UTILIZED.
- 4. COST OF STANDARDS B.L.R. 21, B.L.R. 22, ADDITIONAL SIGNAGE, ALL TRAFFIC CONTROL DEVICES AS SHOWN ON THIS DETAIL SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDE WITH THE COST OF "TRAFFIC CONTROL FOR ROAD CLOSURE".

M4-IOL 48"X18"

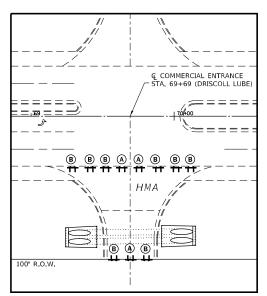
ROAD CLOSED

1/4 MILE AHEAD

LOCAL TRAFFIC ONLY

R11-3A 60"X30"

SCALE:

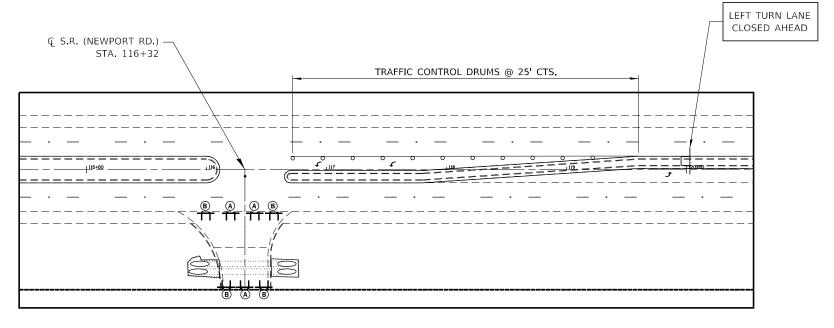


PLAN DETAIL "A"

COMMERCIAL ENTRANCE

STA. 69+69 RT.

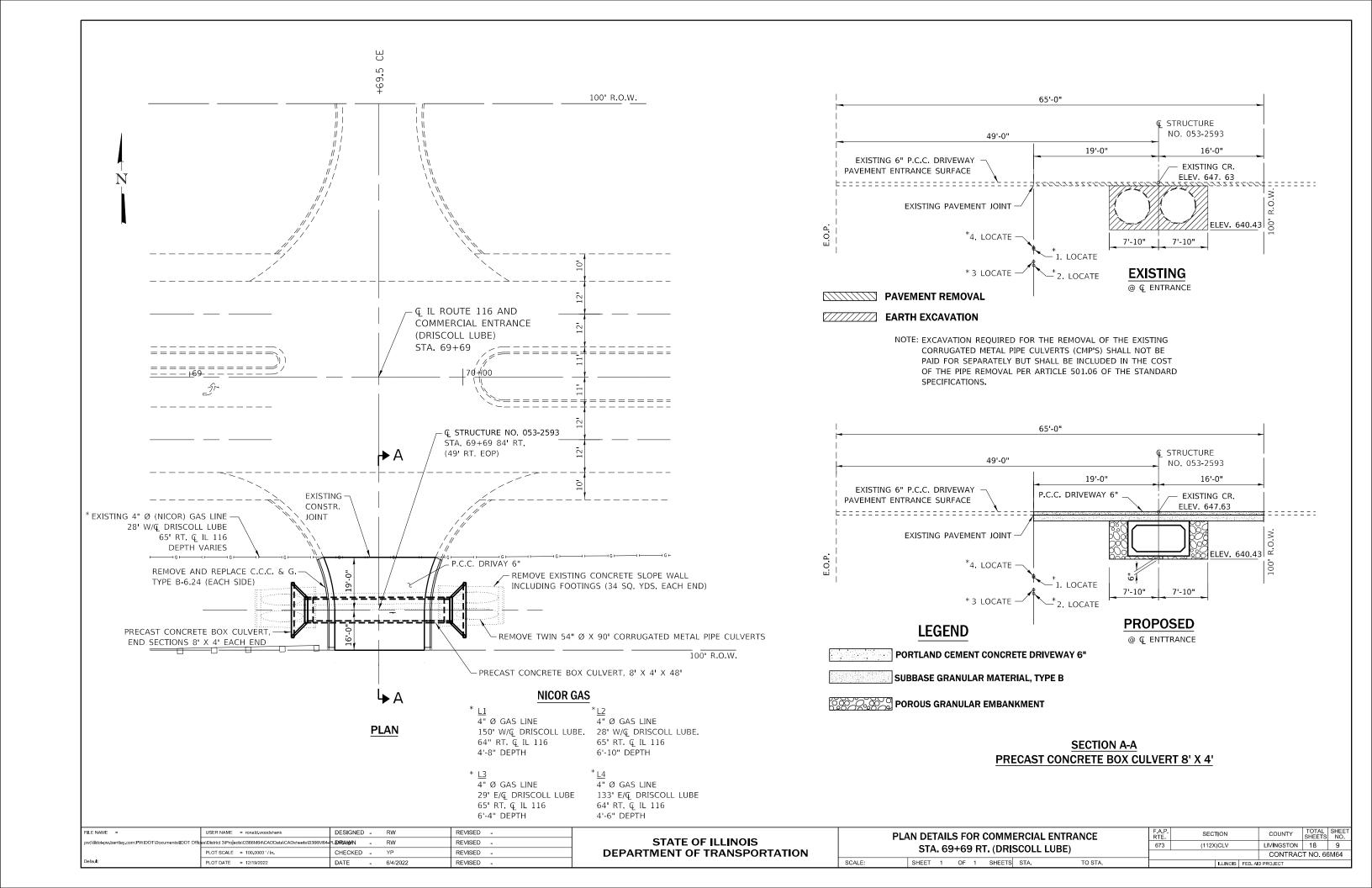
(DRISCOLL LUBE)



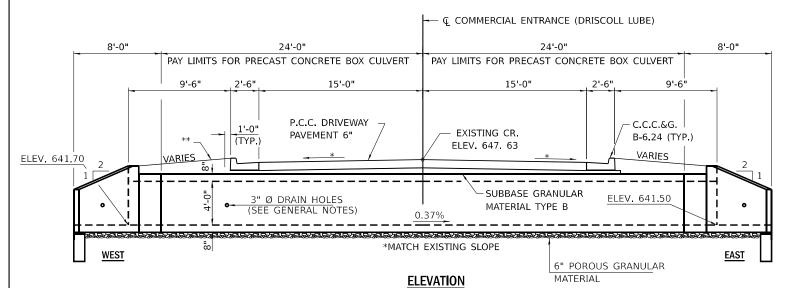
PLAN DETAIL "B"
NEWPORT RD.

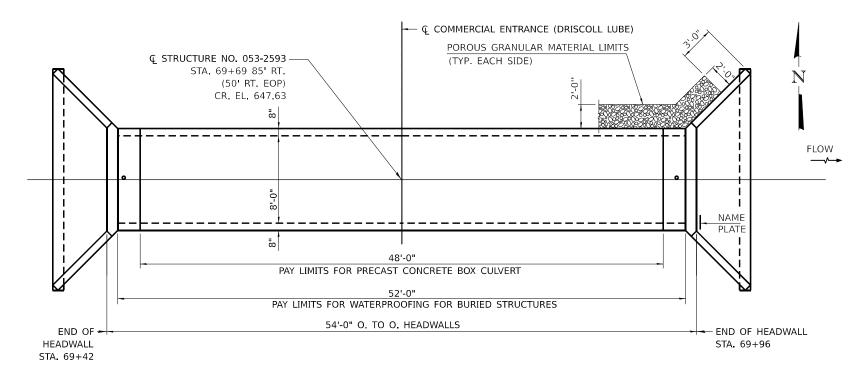
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Default	PLOT DATE = 12/19/2022	DATE	-	6/4/2022	REVISED -	

							F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
TRAFFIC C	TRAFFIC CONTROL AND PROTECTION FOR ROAD CLOSURE								(112X)CLV	LIVINGSTON	18	8
										CONTRAC	T NO. 66	3M64
A1 E.	CHEET	4	OF	4	CHEETO	CTA	TO CTA			 		



BENCHMARK NO. 1: CHISLED "X" ON CURB, SE CORNER OF IL 116 AND DRISCOLL LUBE ENTRANCE. ELEVATION 648.73 EXISTING STRUCTURE: TWIN 54" X 87' Ø CORRUGATED METAL PIPE CULVERTS WITH CONCRETE SLOPE WALLS





PLAN STRUCTURE NO. 053-2593

WATERWAY INFORMATION

DRAINAGE AREA	DRAINAGE AREA = 0.6 SQ. MI. LOW GRADE ELEV. = 647.15 @ STA. 69+69										
FLOOD	FREQ.	Q	OPENING	SQ. FT.	NAT.	HEAD	- FT.	HEADWATER EL.			
FLOOD	YR.	C.F.S.	EXIST.	PROP.	H.W.E.	EXIST.	PROP.	EXIST.	PROP.		
TEN-YEAR	10	81	10	18	644.0	1.3	0.2	645.4	644.2		
DESIGN	50	129	14	22	644.5	1.7	0.6	646.3	645.1		
BASE	100	150	16	24	644.7	1.9	0.7	646.6	645.4		
OVERTOP EXISTING	133	160	16	-	644.8	2.0	-	646.8	-		
SCOUR CHECK	200	172	17	25	644.9	2.0	0.9	646.9	645.8		
MAX. CALC.	500	201	19	27	645.1	2.1	1.2	647.2	646.2		

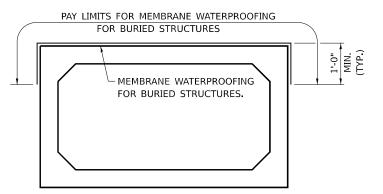
GENERAL NOTES

THE DESIGN FILL HEIGHT FOR THIS BOX IS 1.4 FT. THE PRECAST BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 1577.

DRAIN HOLES SHALL BE PROVIDED ON EXTERIOR CULVERT WALLS FOR EACH PRECAST BOX SEGMENT WITH A CLEAR RISE GREATER THAN 3 FT. THE DRAIN HOLE SHALL BE LOCATED WITHIN 1/3 OF THE CLEAR RISE OF THE BOX CULVERT, SHALL NOT INTERCEPT THE HAUNCH, AND SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 503.11 OF THE STANDARD SPECIFICATION

NONWOVEN GEOTEXTILE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ART. 1080.01 OF THE STANDARD SPECIFICATIONS. THE MINIMUM WEIGHT OF THE FABRIC SHALL BE 6 OUNCES PER SQUARE YARD.

PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS SHALL BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT IN THE REQUIRED EXCAVATION AREAS ON THE SIDES OF THE BOX CULVERT FROM THE TOP OF THE BOX CULVERT TO THE BOTTOM OF THE BOX CULVERT. THIS AREA OF PGE IS INCLUDED IN THE POROUS GRANULAR EMBANKMENT PAY ITEM. THE 6-INCH THICK LAYER OF POROUS GRANULAR MATERIAL REQUIRED UNDER THE PRECAST CONCRETE BOX CULVERT, ACCORDING TO SECTION 540,06 OF THE STANDARD SPECIFICATIONS, SHALL ALSO APPLY TO THE END SECTIONS. COST OF THIS POROUS GRANULAR MATERIAL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE WORK FOR WHICH IT IS REQUIRED.



MEMBRANE WATERPROOFING FOR BURIED STRUCTUREE

STATION 69+69 BUILT STATE OF ILLINOIS F.A.P. RT. 673 SEC. (112X)C-3 LOADING HL-93 STRUCTURE NO. 053-2593

> NAME PLATE SEE STD. 515001

** SUITABLE EXCAVATED MATERIALS SHALL BE USED TO RECONSTRUCT EMBANKMENT SLOPES (TYP.).

IN THE EVENT THAT ADDITIONAL MATERIAL IS REQUIRED TO RECONSTRUCT THE EMBANKMENT ADJACENT TO THE NEW BOX CULVERT STRUCTURES, THE CONTRACTOR SHALL FURNISH AND PLACE MATERIAL ACCORDING TO SECTION 204 OF THE STANDARD SPECIFICATIONS AND AS APPROVED BY THE ENGINEER. COST OF FURNISHING, PLACING AND COMPACTING THE MATERIAL SHALL BE ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

TOTAL BILL OF MATERIAL

	=	
ITEM	UNIT	TOTAL
PIPE CULVERT REMOVAL	FOOT	180
SLOPE WALL REMOVAL	SQ. YD.	68
NAME PLATES	EACH	1
BOX CULVERT END SECTIONS,	FACH	2
CULVERT NO. 1	LACII	_
PRECAST CONCRETE BOX	FOOT	48
CULVERTS, 8' X 4"	1001	10
POROUS GRANULAR EMBANKMENT	CU. YD.	91
MEMBRANE WATERPROOFING	SO. YD.	66
FOR BURIED STRUCTURES	3Q. TD.	00

DESIGN SPECIFICATIONS

2020 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS CUSTOMARY U.S. UNITS, 9TH EDITION

LOADING HL-93

DESIGN STRESSES

SCALE:

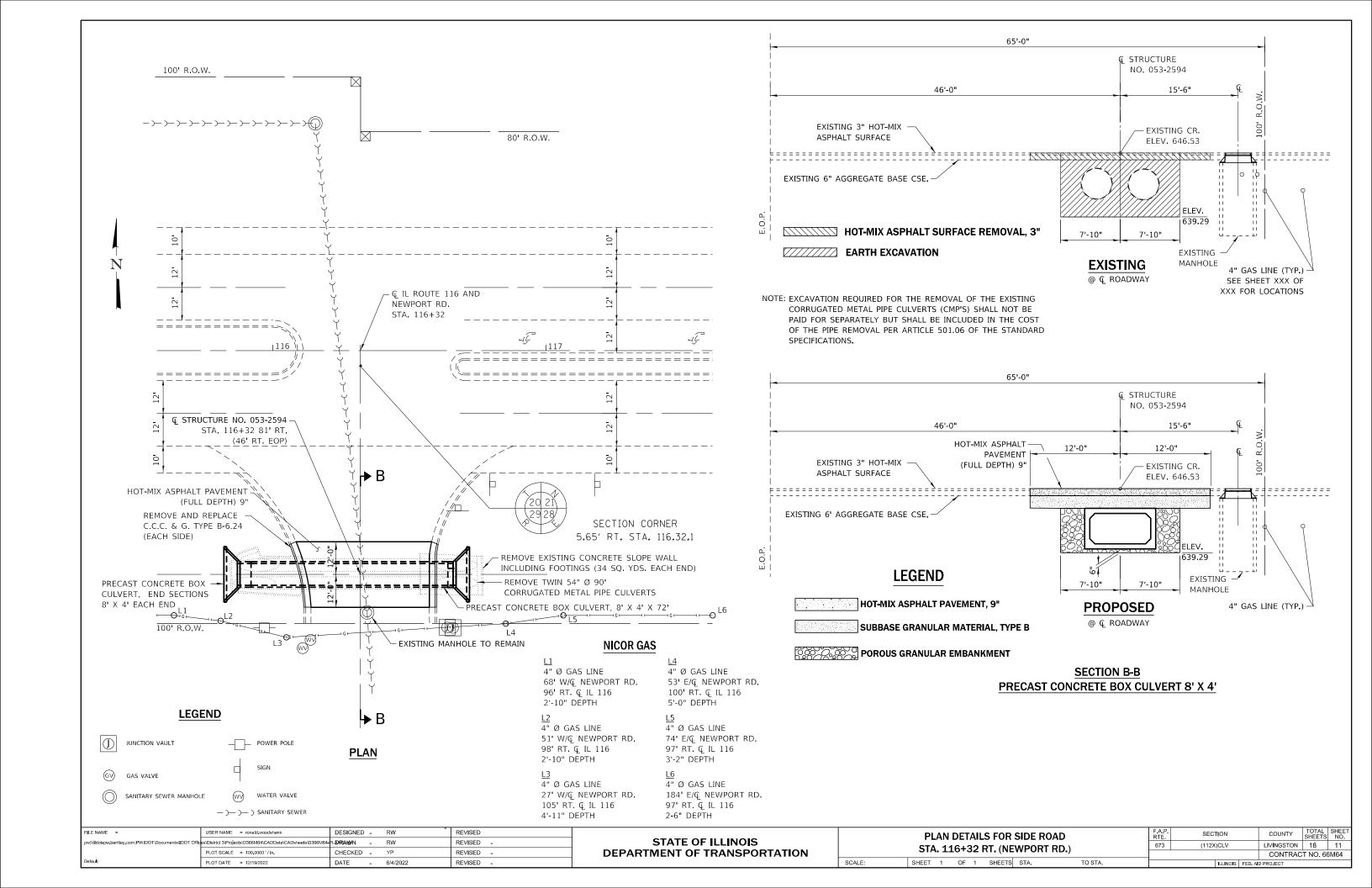
f'c = 5,000 psi

fy = 65,000 PSI (WELDED WIRE REINFORCEMENT)

GENERAL PLAN AND ELEVATION IL RTE. 17 OVER A DRAINAGE DITCH F.A.P. RTE. 673 SEC. (112X)C-3 LIVINGSTON COUNTY **STATION 69+69** S.N. 053-2593

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED	-	RW	REVISED -
pw://ildot-pw.bentley.com:PWIDOT/Documents/IDOT Office	es/District 3/ORD Projects/D366M76/CADData/CADsheets/66M7	6 COER/ARVA/M gn	-	RW	REVISED -
	PLOT SCALE = 50.000 '/in.	CHECKED	-	YP	REVISED -
Default	PLOT DATE = 1/27/2023	DATE	-	6/4/2022	REVISED -

GENERAL PL	GENERAL PLAN AND ELEVATION FOR STRUCTURE NO. 053-2593								F.A.P. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
(673	(112X	2X)CLV LIVINGSTON 18			18	10	
	COMERCIAL ENTRANCE (DRISCOLL LUBE)												CONTRAC	T NO. 66	6M64
SCALE:	SHEET	1	OF	1	SHEETS	STA	т	O STA			II I INIOIO	LEED A	D DBO IECT		



BENCHMARK NO. 2: CHISLED "X" ON CURB, SE CORNER OF HAND HOLE, IL 116 AND NEWPORT RD. ELEVATION 645.49 EXISTING STRUCTURE: TWIN 54" Ø X 90' CORRUGATED METAL PIPE CULVERTS WITH CONCRETE SLOPE WALLS SIDE ROAD (NEWPORT RD.) 9'-11%" 7'-11%" PAY LIMITS FOR PRECAST CONCRETE BOX CULVERT PAY LIMITS FOR PRECAST CONCRETE BOX CULVERT 21'-43/4" 19'-11" 12'-3" HOT-MIX ASPHALT 1'-0" C.C.C.&G. **PAVEMENT** (TYP.) B-6.24 (FULL DEPTH) 9" -EXISTING CR. (TYP.) ELEV. 646.53 VARIES -SUBBASE GRANULAR ELEV 639.20 3" Ø DRAIN HOLES - ELEV. 639.40 (SEE GENERAL NOTES) MATERIAL TYPE B <u>EAST</u> *MATCH EXISTING SLOPE **WEST** 6" POROUS GRANULAR MATERIAL ** SUITABLE EXCAVATED MATERIALS SHALL BE USED TO RECONSTRUCT EMBANKMENT SLOPES (TYP.) **ELEVATION**

- Q SIDE ROAD (NEWPORT RD.)

(TYP. EACH SIDE)

72'-0"

MEMBRANE WATERPROOFING FOR BURIED STRUCTURES

PLAN STRUCTURE NO. 053-2594

PAY LIMITS FOR PRECAST CONCRETE BOX CULVERT

80'-0" O. TO O. HEADWALLS

POROUS GRANULAR MATERIAL LIMITS

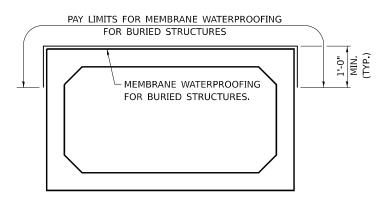
GENERAL NOTES

THE DESIGN FILL HEIGHT FOR THIS BOX IS 2.6 FT. THE PRECAST BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 1577.

DRAIN HOLES SHALL BE PROVIDED ON EXTERIOR CULVERT WALLS FOR EACH PRECAST BOX SEGMENT WITH A CLEAR RISE GREATER THAN 3 FT. THE DRAIN HOLE SHALL BE LOCATED WITHIN 1/3 OF THE CLEAR RISE OF THE BOX CULVERT, SHALL NOT INTERCEPT THE HAUNCH, AND SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 503.11 OF THE STANDARD SPECIFICATION.

NONWOVEN GEOTEXTILE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ART. 1080.01 OF THE STANDARD SPECIFICATIONS. THE MINIMUM WEIGHT OF THE FABRIC SHALL BE 6 OUNCES PER SQUARE YARD.

PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS SHALL BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT IN THE REQUIRED EXCAVATION AREAS ON THE SIDES OF THE BOX CULVERT FROM THE TOP OF THE BOX CULVERT TO THE BOTTOM OF THE BOX CULVERT. THIS AREA OF PGE IS INCLUDED IN THE POROUS GRANULAR EMBANKMENT PAY ITEM. THE 6-INCH THICK LAYER OF POROUS GRANULAR MATERIAL REQUIRED UNDER THE PRECAST CONCRETE BOX CULVERT, ACCORDING TO SECTION 540.06 OF THE STANDARD SPECIFICATIONS, SHALL ALSO APPLY TO THE END SECTIONS. COST OF THIS POROUS GRANULAR MATERIAL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE WORK FOR WHICH IT IS REQUIRED.



MEMBRANE WATERPROOFING FOR BURIED STRUCTUREE

** SUITABLE EXCAVATED MATERIALS SHALL BE USED TO RECONSTRUCT EMBANKMENT SLOPES (TYP.).

IN THE EVENT THAT ADDITIONAL MATERIAL IS REQUIRED TO RECONSTRUCT THE EMBANKMENT ADJACENT TO THE NEW BOX CULVERT STRUCTURES, THE CONTRACTOR SHALL FURNISH AND PLACE MATERIAL ACCORDING TO SECTION 204 OF THE STANDARD SPECIFICATIONS AND AS APPROVED BY THE ENGINEER. COST OF FURNISHING, PLACING AND COMPACTING THE MATERIAL SHALL BE ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

STATION 116+32.10
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 673 SEC. (112X)C-4
LOADING HL-93
STRUCTURE NO. 053-2594

NAME PLATE SEE STD. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
PIPE CULVERT REMOVAL	FOOT	180
SLOPE WALL REMOVAL	SQ. YD.	68
NAME PLATES	EACH	1
BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2
PRECAST CONCRETE BOX		
CULVERTS, 8' X 4"	FOOT	72
POROUS GRANULAR EMBANKMENT	CU. YD.	150
MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ. YD.	98

DESIGN SPECIFICATIONS

2020 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS CUSTOMARY U.S. UNITS, 9TH EDITION

FLOW

LOADING HL-93

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi

y = 65,000 PSI (WELDED WIRE REINFORCEMENT)

WATERWAY INFORMATION

END OF

HEADWALL

STA. 115+87

© STRUCTURE NO. 053-2594 — STA. 116+32 83' RT.

(48' RT. EOP)

DRAINAGE ARE	DRAINAGE AREA = 0.6 SQ. MI. LOW GRADE ELEV. = 646.63 @ STA. 116+323											
FLOOD	FREQ.	Q	OPENING	SQ FT.	NAT.	NAT. HEAD - FT.			HEADWATER EL.			
FLOOD	YR.	C.F.S.	EXIST.	PROP.	H.W.E.	EXIST.	PROP.	EXIST.	PROP.			
TEN-YEAR	10	81	19	25	642.6	0.5	0.1	643.1	642.7			
DESIGN	50	129	24	39	643.2	0.8	0.3	644.0	643.5			
BASE	100	150	26	31	643.4	1.0	0.4	644.4	643.8			
SCOUR CHECK	200	172	28	31	643.6	1.3	0.6	644.8	644.2			
MAX. CALC.	500	201	29	31	643.8	1.7	0.9	645.6	644.7			

GENERAL PLAN AND ELEVATION

IL RTE. 116 OVER A DRAINAGE DITCH

F.A.P. RTE. 673 SEC. (112X)C-4

LIVINGSTON COUNTY

STATION 116+32.10

S.N. 053-2594

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED -	RW	REVISED -		GENERAL P	I AN AND FI	FVATION	LEOR	STRUCTURE NO. 0	53-2594	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
pw://ildot-pw.bentley.com:PWIDOT/Documents/IDOT Office	es/District 3/ORD Projects/D366M76/CADData/CADsheets/66M	176 COURVANA/ANIEN	RW	REVISED -	STATE OF ILLINOIS	GENERAL!	LAN AND LL				30 2004	673	(112X)CLV	LIVINGSTON	18	12
	PLOT SCALE = 50.000'/in.	CHECKED -	YP	REVISED -	DEPARTMENT OF TRANSPORTATION			NEWP	אוא	D.			,	CONTRAC	CT NO. 6	6M64
Default	PLOT DATE = 1/27/2023	DATE -	6/4/2022	REVISED -		SCALE:	SHEET 1	OF 1 SI	HEETS S	TA. TO STA.			ILLINOIS FED. A	PROJECT		

PLATE

- END OF HEADWALL

STA. 115+87

$4X4 - W6XW6 WWR (R \le 3'-0")$ 4X4 - W12XW12 WWR (R > 3'-0") (TYP. EACH FACE) 3" Ø DRAIN HOLE SEE GENERAL NOTES

6'-0" MIN. $(R \le 3'-0")$ SEE GENERAL NOTES 10'-0" MIN. (R > 3'-0") REGARDING CULVERT TIES. **SECTION A-A**

GENERAL NOTES

BOX CULVERT END SECTIONS SHALL BE CONSTRUCTED ACCORDING TO THE REQUIREMENTS OF SECTION 540 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED HEREIN. END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR BOX CULVERT END SECTIONS.

THE CONTRACTOR MAY FURNISH THE END SECTION AS A SINGLE PRECAST CONCRETE PIECE OR CONSTRUCT THE END SECTION IN THE FIELD USING CAST-IN-PLACE (CIP) CONSTRUCTION. FOR CIP CONSTRUCTION, THE BOTTOM SLAB THICKNESS SHALL BE NCREASED BY 2" AND THE CLEAR COVER TO THE BOTTOM MAT OF REINFORCEMENT SHALL BE INCREASED TO 3".

BOX SECTION DIMENSIONS, MATERIALS, AND REINFORCEMENT DETAILS FOR BOX CULVERT END SECTIONS SHALL BE ACCORDING TO THE REQUIREMENTS FOR ASTM C 1577 AS REQUIRED FOR THE DESIGN OF THE PORTION OF THE CULVERT WITHIN THE LIMITS OF PRECAST CONCRETE BOX CULVERTS EXCEPT AS MODIFIED HEREIN.

THE NUMBER OF CULVERT TIES SHALL BE SUFFICIENT TO ENGAGE THE MINIMUM LENGTH OF CULVERT BARREL SHOWN WITHIN THE PAY LIMITS FOR PRECAST CONCRETE BOX CULVERTS AND WILL BE DEPENDENT UPON THE LENGTH OF BOX CULVERT SEGMENTS FURNISHED BY THE CONTRACTOR. CULVERT TIES ARE NOT REQUIRED FOR BOX CULVERTS HAVING A RISE (R) LESS THAN OR EQUAL TO 3 FT AND A SPAN (S) GREATER THAN OR EQUAL TO 10 FT.

ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING OR CONSTRUCTING THE TOEWALL AND CULVERT TIES WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR BOX CULVERT END SECTIONS OF THE CULVERT NUMBER SPECIFIED.

SHOP DRAWINGS THAT DETAIL SLAB THICKNESS AND REINFORCEMENT LAYOUT FOR THE BOX CULVERT END SECTIONS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL. REINFORCEMENT BARS NOT DETAILED HEREIN SHALL BE DETAILED WITH A CLEAR DISTANCE AT THE END OF THE REINFORCEMENT NOT LESS THAN ½" NOR MORE THAN 2". FOR THE PRECAST OPTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR DETERMINING A METHOD OF HANDLING AND A CONSTRUCTION PROCEDURE SHALL BE INCLUDED ON THE SHOP DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND DETAIL IN THE SHOP DRAWINGS ANY NECESSARY STRENGTHENING OR STIFFENING PROVISIONS NECESSARY TO HANDLE THE PRECAST SEGMENT. ANY REQUIRED MODIFICATIONS SHALL BE AT NO EXTRA CHARGE.

THE CONTRACTOR MAY USE REINFORCEMENT BARS IN LIEU OF WELDED WIRE REINFORCEMENT (WWR). REINFORCEMENT BARS SHALL BE LIMITED TO THE SIZES OF #3 THROUGH #5 BARS, A MAXIMUM SPACING OF THE LESSER OF 8" OR THE MEMBER THICKNESS, AND SHALL RESULT IN AN AREA OF REINFORCEMENT EQUAL TO OR GREATER THAN THAT PROVIDED BY THE WWR. MINIMUM LAP LENGTHS DETAILED HEREIN ARE APPLICABLE TO WWR AND REINFORCEMENT BARS.

REINFORCEMENT (CIRCUMFERENTIAL AND LONGITUDINAL) IN THE CULVERT BARREL PORTION OF THE END SECTION BEING LAPPED WITH REINFORCEMENT FROM THE WINGWALLS OR BOTTOM SLAB OF THE END SECTION SHALL NOT BE LESS THAN THAT REQUIRED BY ASTM C 1577 FOR THE DESIGN FILL HEIGHT OR THE REINFORCEMENT DETAILED FOR THE END SECTION, WHICHEVER IS GREATER,

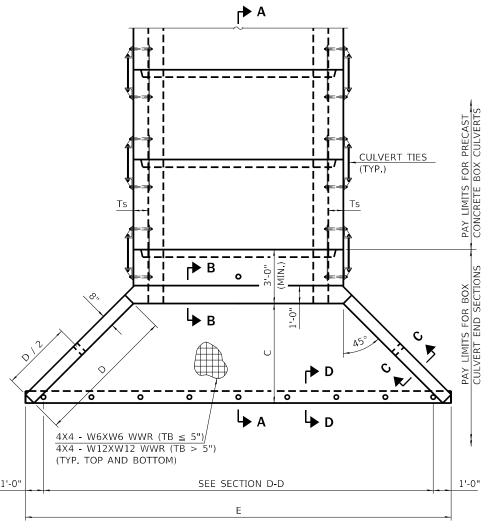
ONE DRAIN HOLE SHALL BE PROVIDED IN EACH WINGWALL FOR END SECTIONS OF BOX CULVERTS HAVING AN OPENING WITH A CLEAR RISE GREATER THAN 3 FT. THE DRAIN HOLE SHALL BE LOCATED WITHIN THE LOWER 1/3 OF THE CLEAR RISE OF THE BOX CULVERT AND SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS.

APRON END SECTION DIMENSIONS

APRON END SECTION DIMENSIONS											
SPAN (S)	RISE (R)	Tt	Tb	Ts	А	В	С	D	Е	CONCRETE CU. YD.	CULVERT TIE REQUIRED
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10%"	4'-1"	10'-4%"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7%"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10%"	5'-6"	12-4%"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7%"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4½"	2'-2½"	2'-11¾"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8½"	3'-10"	11'-2¾"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4' - 4½"	2'-8½"	3'-11¾"	5'-7"	13'-81/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8½"	5'-3"	13'-2%"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4½"	3'-2½"	4'-11%"	7'-0"	15'-8%"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8%"	6'-8"	15'-2½"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11¾"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-71/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11%	5'-7"	14'-10%"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-71/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11%"	7'-0"	16'-101/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9¼"	6'-9"	16'-5%"	5.5	Yes
5'-0" 5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11%"	8'-5"	18'-101/8"	7.4	Yes
6'-0"	5'-0" 2'-0"	6" 8"	6" 7"	6" 7"	6'-3" 3'-5"	3'-8" 2'-3"	5'-9¼" 2'-11¾"	8'-2" 4'-2"	18'-5%" 14'-0"	6.8 4.3	Yes Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-11%	4'-1"	13'-10%"	4.3	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11%"	5'-7"	16'-01%"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10%"	5'-6"	15'-10%"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11%"	7'-0"	18'-01/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10¾"	6'-11"	17'-10¾"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11¾"	8'-5"	20'-01/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10¾"	8'-4"	19'-10¾"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11½"	9'-10"	22'-01/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10¾"	9'-9"	21'-10¾"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11¾"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11%"	5'-7"	17'-21/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11¾"	7'-0"	19'-21/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11¾"	8'-5"	21'-21/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	23'-21/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11%"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11¾"	5'-7"	18'-21/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11¾"	7'-0"	20'-2%"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11¾"	8'-5"	22'-2½"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	24'-21/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0¾"	4'-4"	17'-6%"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0¾"	5'-9"	19'-6%"	7.5	Yes
9'-0"	4'-0"	9'	9"	9"	5'-6"	3'-3"	5'-0¾"	7'-2"	21'-6%"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0%"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6" 3'-7"	4'-3"	7'-01/8"	9'-11"	25'-5%"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"		2'-4"	3'-1½"	4'-5"	18'-10¼"	7.1	No
10'-0" 10'-0"	3'-0" 4'-0"	10"	10"	10" 10"	4'-7" 5'-7"	2'-10" 3'-4"	4'-1½" 5'-1½"	5'-10" 7'-3"	20'-10¼"	8.6 10.2	No Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-4"	6'-1½"	8'-8"	24'-10%"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	3 -10 4'-4"	7'-1½"	10'-1"	24 - 10 %	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2%"	4'-7"	20'-31/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2%"	6'-0"	20'-31/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-21/4"	7'-4"	24'-1¾"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-21/4"	8'-9"	26'-1¾"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-21/4"	10'-2"	28'-1%"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3%"	4'-8"	21'-6½"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3%"	6'-1"	23'-6½"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3%"	7'-6"	25'-6%"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3%"	8'-11"	27'-6%"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3%"	10'-4"	29'-6%"	17.4	Yes
NOTE:											

TWO SETS OF APRON END SECTION DIMENSIONS ARE SHOWN ABOVE FOR SOME BOX CULVERT SIZES DUE TO THE TOP AND BOTTOM SLABS HAVING DIFFERENT THICKNESSES PER ASTM C 1577 FOR DESIGN FILL HEIGHTS LESS THAN 2 FT.

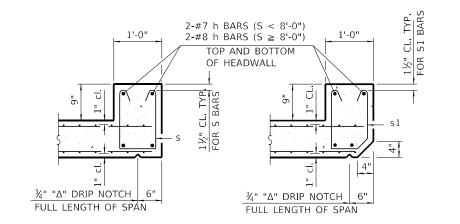
END VIEW



PLAN

SCB-AES	2-17-2017		THE STANDARD S
FILE NAME =	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
pw:\\illdot-pw.bentley.com:PWIDOT\Documents\IDOT Office	ces\District 3\Projects\D366M64\CADData\CADsheets\D366M64-	PL DRAMIN - RW	REVISED -
	PLOT SCALE = 100.0000 '/in.	CHECKED - YP	REVISED -
Default	PLOT DATE = 12/19/2022	DATE - 6/4/2022	REVISED -

PRECAST C	NCRETE BOX CULVERT APRON END SECTION DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHE
FOD 6	TRUCTURE NO OCO SEGS OCS SEGS AND OCS SEGE	673	(112X)CLV	LIVINGSTON	18	13
FUK 3	TRUCTURE NO. 053–2593, 053–2594 AND 053–2595			CONTRAC	T NO. 6	6M64
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



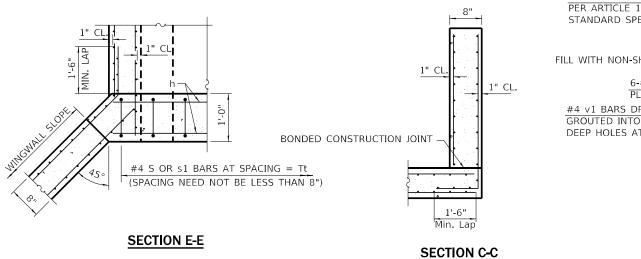
1'-6" MIN. OPTIONAL LAP SPLICE.
SEE GENERAL NOTES
FOR REINFORCEMENT
REQUIREMENTS.

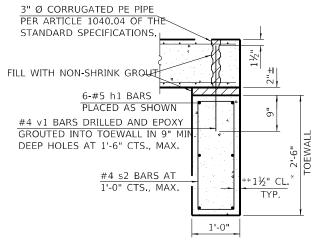
SECTION B-B (TOP SLAB AT DOWNSTREAM END) (TOP

SECTION B-B
(TOP SLAB AT UPSTREAM END)

SECTION B-B (BOTTOM SLAB)

*** THIS DIMENSION SHALL BE INCREASED BY 2" FOR CIP CONSTRUCTION.



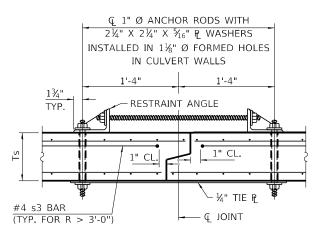


TOEWALL CONSTRUCTION SEQUENCE

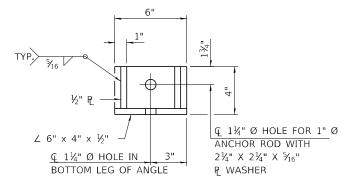
- 1. PERFORM EXCAVATION AND CONSTRUCT TOEWALL.
 2. BACKFILL ACCORDINGLY AND PLACE BEDDING FOR
- PRECAST BOX CULVERT END SECTIONS.

SECTION D-D

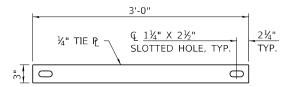
- SET PRECAST BOX CULVERT END SECTION.
- 4. DRILL AND EPOXY GROUT REINFORCEMENT IN TOEWALL IN ACCORDANCE WITH SECTION 584 OF THE STANDARD SPECIFICATIONS.
- 5. PRESSURE GROUT VOIDS USING NON-SHRINK GROUT CONFORMING TO SECTION 1024 OF THE STANDARD SPECIFICATIONS.
- * THE CONTRACTOR MAY FURNISH A PRECAST OR CAST-IN-PLACE TOEWALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRECAST TOEWALL DURING HANDLING. ADDITIONAL LIFTING POINTS MAY BE REQUIRED DEPENDING UPON THE LENGTH OF THE TOEWALL OR THE CONTRACTOR MAY NEED TO MODIFY THE DESIGN OF THE TOEWALL FOR THE PROPOSED HANDLING METHOD.
- ** IF SOIL CONDITIONS PERMIT, THE SIDES OF THE TOEWALL MAY BE POURED DIRECTLY AGAINST THE SOIL. THE CLEAR COVER ON THE SIDES OF THE TOEWALL SHALL BE INCREASED TO 3" BY INCREASING THE THICKNESS OF THE TOEWALL.



SECTION F-F (SHOWING CULVERT TIE DETAILS)



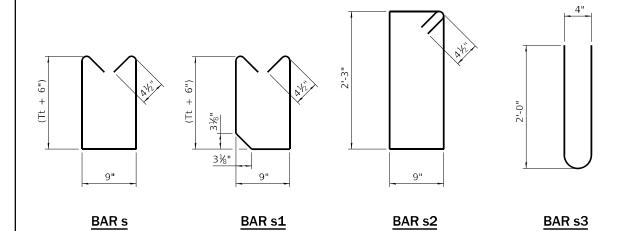
RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

NOTES

1" Ø ANCHOR RODS FOR THE CULVERT TIES SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554, GRADE 105. STRUCTURAL STEEL FOR THE TIE PLATE AND RESTRAINT ANGLE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006,04 OF THE STANDARD SPECIFICATIONS. ALL COMPONENTS OF THE CULVERT TIE DETAIL SHALL BE GALVANIZED ACCORDING TO THE REQUIREMENTS OF AASHTO M 111 OR M 232 AS APPLICABLE. 2¼"X2¼"X516" PLATE WASHERS SHALL BE PROVIDED UNDER EACH NUT REQUIRED FOR THE ANCHOR RODS. ANCHOR RODS CONNECTING PRECAST SECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION FOLLOWED BY AN ADDITIONAL TURN ON ONE OF THE NUTS FOR ANCHOR RODS INSTALLED IN THE WALLS. MATCH MARKS SHALL BE PROVIDED ON THE BOLT AND NUT TO VERIFY RELATIVE ROTATION BETWEEN THE BOLT AND THE NUT, HOLES IN THE WALLS FOR THE CULVERT TIE ASSEMBLY MAY BE DRILLED USING CORE BITS IN LIEU OF USING FORMED HOLES.

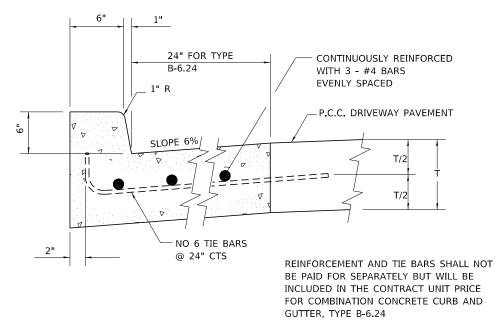


SCB-AES

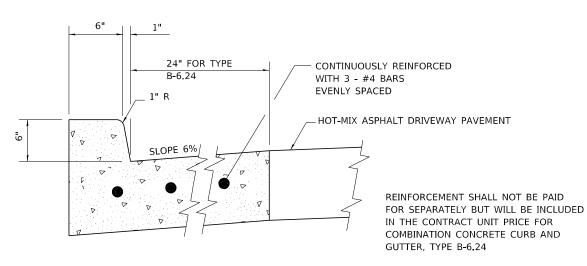
2-17-2017

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED	-	RW	REVISED -
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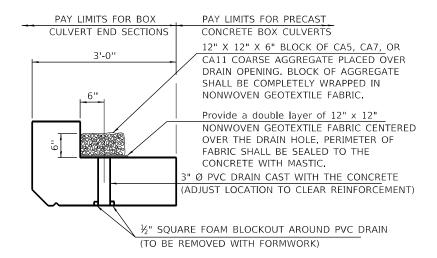
PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FOR CTRUCTURE NO OFF SEAS OFF SEAS AND OFF SEAS	673	(112X)CLV	LIVINGSTON	18	14
FOR STRUCTURE NO. 053-2593, 053-2594 AND 053-2595			CONTRAC	T NO. 6	3M64
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				



REINFORCEMENT AND TIE BARS FOR COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24 ADJACENT TO P.C.C. PAVEMENT



REINFORCEMENT FOR COMBINATION
CONCRETE CURB AND GUTTER TYPE B-6.24
ADJACENT TO FLEXIBLE PAVEMENT



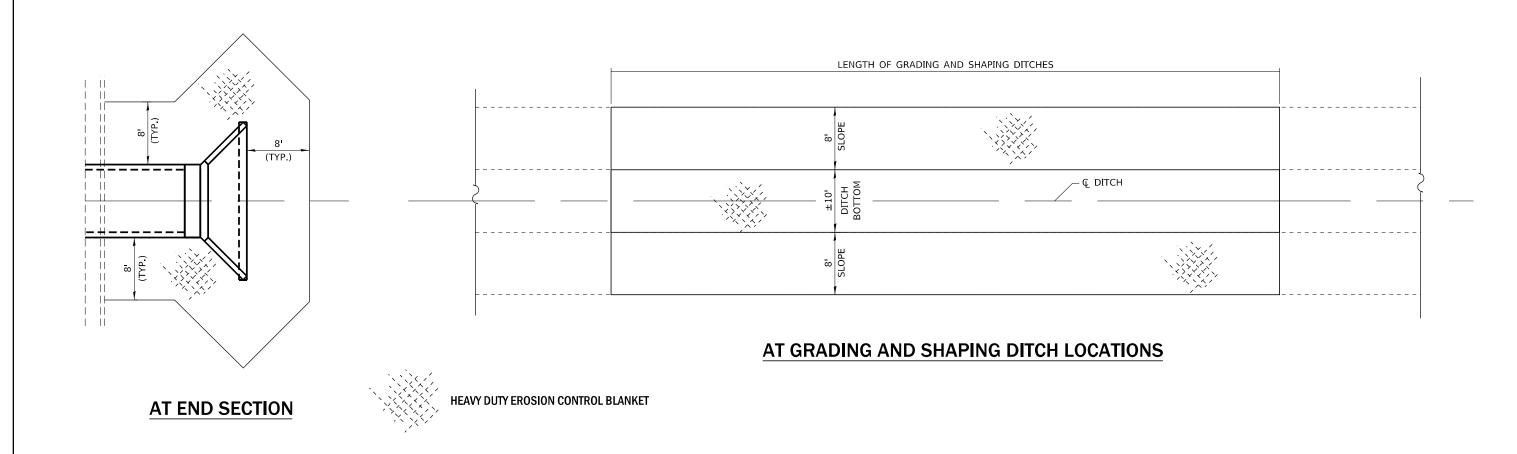
DRAIN DETAIL

(ALL COSTS ASSOCIATED WITH FURNISHING AND CONSTRUCTING THE ABOVE DRAIN DETAIL WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE ASSOCIATED WORK.)

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED	-	RW	REVISED -	Τ
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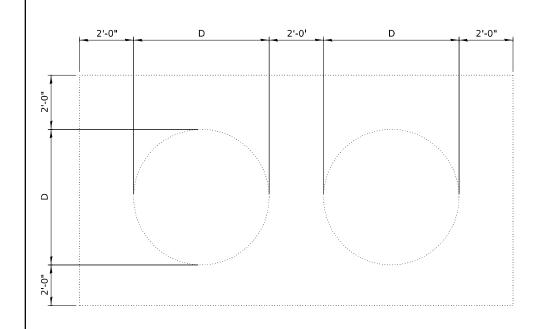
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

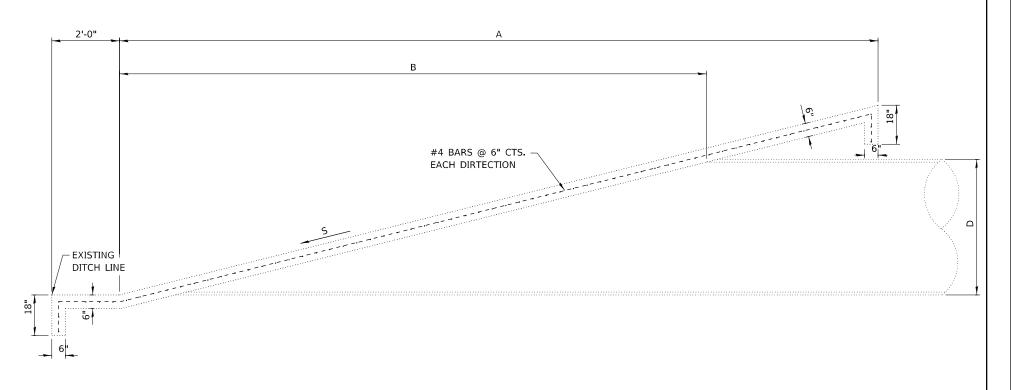
MIGOELLANICANO DETANO									SEC.		COUNTY	TOTAL SHEETS	SHEET NO.	
	MISCELLANEOUS DETAILS									673 (112X)CLV			18	15
												CONTRAC	T NO. 66	6M64
SCALE:	SHEET	6	OF	9	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT						



EROSION CONTROL BLANKET AT PRECAST CONCRETE BOX CULVERTS END SECTIONS AND DITCH CLEANING AREAS

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED -	RW	REVISED -				F.A.P.	SECTION	COUNTY	TOTAL SHE
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Default	PLOT DATE = 12/19/2022	DATE -	6/4/2022	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	





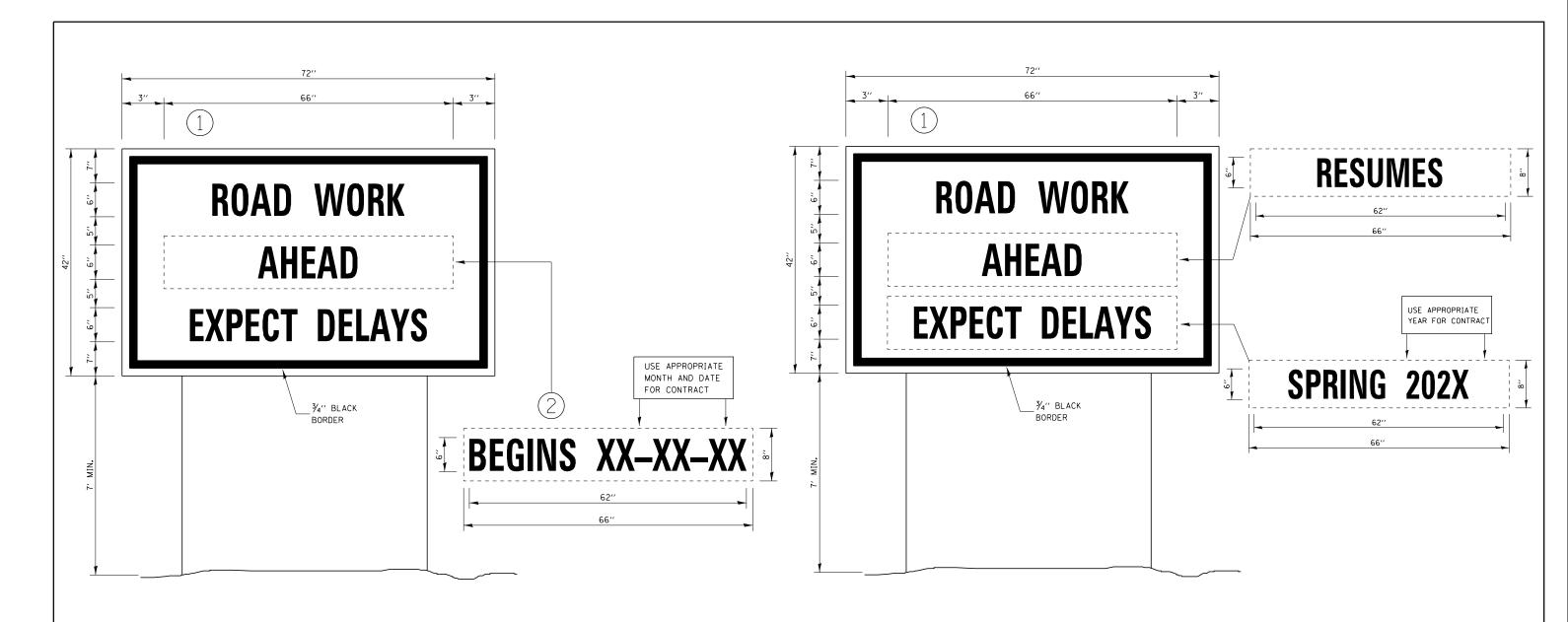
EXISTING CONCRETE SLOPE WALL DETAILS

DIMENSION TABLE

LOCATION	ENTRANCE						
(STATION)	TYPE	D	S	Α	В	W	L
69+69 RT.	C.E.	54"	4:1	26 ' - 0 "	18'-0"	15'-0'	27'-0'
OSTOS KI.	C.L.	54"	4:1	26 ' - 0 "	18'-0"	15'-0'	27'-0'
116+32 RT.	S.R.	54"	4:1	26'-0"	18'-0"	15'-0'	27'-0'
110+32 KT.	J.N.	54"	4:1	26'-0"	18'-0"	15'-0'	27'-0'

FOR INFORMATION ONLY

FILE NAME =	USER NAME = ronald woodshank	DESIGNED - RV	W	REVISED -		EXISTING CONCRETE SLOPE WALL DETAILS	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Office	es\District 3\Projects\D366M64\CADData\CADsheets\D366M64	PL DRAMAN - RV	W	REVISED -	STATE OF ILLINOIS		673	(112X)CLV	LIVINGSTON	18	17
	PLOT SCALE = 100.0000 '/in.	CHECKED - YP	P	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR INFORMATION ONLY			CONTRACT	T NO. 66	ы́М64
Default	PLOT DATE = 12/19/2022	DATE - 6/4	4/2022	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FEE	D. AID PROJECT		



TEMPORARY INFORMATION SIGNING

WINTER SHUT DOWN SIGNING

NOTES:

- 1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
- ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN() WITH INSTALLED PANEL (2) A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
- 4. REMOVE PANEL 2 ON THAT DATE.
- 5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. WILL BE PAID FOR PER SO FT AS "TEMPORARY INFORMATION SIGNING".
 EACH SIGN = 21 SO FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

FILE NAME =	USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -				F.A.P.	SECTION	COUNTY TOTAL SHEET
pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Of	lces\District 3\Projects\D366M64\CADData\CADsheets\D366M6	4-PL DRAMM - RW	REVISED -	STATE OF ILLINOIS	TEMPORARY INFORMATION SIGNING		673	(112X)CLV	LIVINGSTON 18 18
	PLOT SCALE = 100.0000'/in.	CHECKED - YP	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 66M64
Default	PLOT DATE = 12/19/2022	DATE - 6/4/2022	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AI	ID PROJECT