09-21-2018 LETTING ITEM 004

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION COUNTY 1111N-8\8-R It MOIS CONTRACT NO. 60V28

D-91-535-12

THE IMPROVEMENT IS LOCATED IN THE WESLEY TOWNSHIP

# **PROPOSED** HIGHWAY PLANS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.P ROUTE 631: (ILLINOIS ROUTE 102) SECTION (111N-B)B-R FEDERAL PROJECT STP-54IP (860)

ILLINOIS ROUTE 102 AT RAYNS CREEK 6 MILES SOUTH OF ILL ROUTE 53

**BRIDGE REPLACEMENT** WILL COUNTY

C - 91 - 535 - 12

AES SERVICES INC. SHEETS 1-11, 14-15, 17, 19-22, 25, 27, 29, 37-41, 47 LICENSE EXPIRES ON M/30/2019 AES SERVICES INC.

LOCATION OF SECTION INDICATED THUS: - -

**DESIGN DESIGNATION:** 

IL 102 MINOR ARTERIAL ADT (2015) = 2450 ADT (2040) = 1500POSTED SPEED LIMIT = 55 MPH

OLD CHICAGO RD LOCAL ROAD ADT (2012) = 1350POSTED SPEED LIMIT = 55 MPH

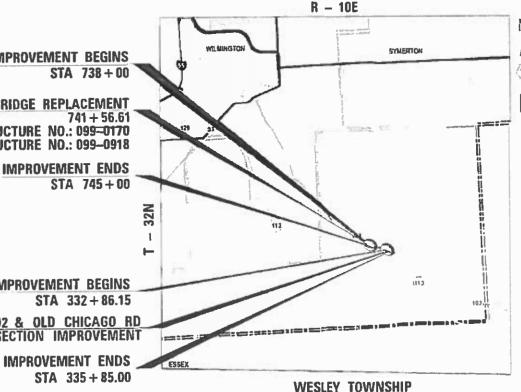
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 DR 811

IMPROVEMENT BEGINS STA 738 + 00 **BRIDGE REPLACEMENT** 741 + 56.61EX. STRUCTURE No.: 099-0170 PR. STRUCTURE NO.: 099-0918 IMPROVEMENT ENDS STA 745+00 IMPROVEMENT BEGINS STA 332 + 86.15 IL 102 & OLD CHICAGO RD INTERSECTION IMPROVEMENT

PROJECT MANAGER: MATTHEW ROTHENBERG (847) 705-4230 PROJECT ENGINEER: JEAN ALIX BRICE (847) 705-4552

**CONTRACT NO.: 60V28** 



**LOCATION MAP** NOT TO SCALE

GROSS LENGTH = 300 FT. = 0.056 MI. NET LENGTH = 300 FT. = 0.056 MI



LICENSE EXPIRES ON 11/30/2019

Suite 3910 Chicago, IL 60606 Ph: 312-235-6783 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-0030 2

CUBMITTED MAY 30 20 18

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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- EXISTING CONDITION AND REMOVAL PLAN 16-17 PLAN AND PROFILE AND PAVEMENT MARKING 18-19
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- 30-34 STRUCTURAL PLANS
- 35-36 SOIL BORINGS
- 37-41 DISTRICT ONE DETAILS
- 42-47 CROSS SECTIONS

#### **HIGHWAY STANDARDS**

#### STANDARD NO DESCRIPTION

- 000001 06 STANDARDS SYMBOLS, ABBREVIATIONS AND PATTERNS
- AREAS OF REINFORCEMENT BARS 001 001 - 02
- DECIMAL OF AN INCH AND OF A FOOT 001 006
- TEMPORARY EROSION CONTROL SYSTEMS 280001 - 07
- HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT 482001 - 02
- 51 5001 03 NAME PLATE FOR BRIDGES
- 601 001 05 PI PE UNDERDRAINS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 606001 07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 61 0001 08 SHOULDER INLET WITH CURB
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301 08 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631 032 09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 642006 SHOULDER RUMBLE STRIPS, 8 IN.
- OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY 701 001 - 02
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURES, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
- 701 301 04 LANE CLOSURE, 2L, 2W. SHORT TIME OPERATIONS
- 701 306 04 LANE CLOSURE, 2L, 2W SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
- 701 31 1 03 LANE CLOSURE, 2L, 2W. MOVING OPERATIONS-DAY ONLY
- 701 901 07 TRAFFIC CONTROL DEVICES
- 725001 01 OBJECT AND TERMINAL MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

#### DISTRICT 1 STANDARDS

#### STANDARD NO DESCRIPTION

- BENCHING DETAIL FOR EMBANKMENT WIDENING BD-51
- RUMBLE STRIPES FOR CENTERLINE. NON-FREEWAY
- TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. INTERSECTIONS AND DRIVEWAYS. TC-10
- TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) TC-11
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- DETOUR SIGNING FOR CLOSING STATE HIGHWAYS TC-21
- TC-22 ARTERIAL ROAD INFORMATION SIGN

#### **GENERAL NOTES**

- 1. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOB SITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE." REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED. TEMPORARY FENCE SHOULD BE ERECTED ALONG THE DRIPLINE OF THE TREES AND SHRUBS WITHIN THE LIMITS OF CONSTRUCTION.
- 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.
- TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES TO PREVENT THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXACTION IS WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING OF TREES SHOULD BEGIN IMMEDIATELY AFTER ROOT PRUNING OF THE TREES HAS OCCURRED.
- 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 WESLEY TOWNSHIP.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK. THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE PREFERENCE. ALL EXISTING PAVEMENT MARKING LINES AND REVISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE -ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- THE RESIDENT ENGINEER SHALL CONTACT MR. ERIC CAMPOS, AREA TRAFFIC FIELD ENGINEER AT ERIC.CAMPOS@ILLINOIS.GOV, A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- DRAINAGE STRUCTURE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF
- 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING
- 12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 13. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 14. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT 1 DETAIL " TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW - PLOW RESISTANT)" SHOWN IN THE PLANS.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
- THE RESIDENT ENGINEER SHALL CONTACT THE KANKAKEE RIVER STATE PARK OFFICIALS PRIOR TO START OF THE CONSTRUCTION TO INFORM THEM OF THE INITIATION OF CONSTRUCTION ACTIVITIES NEAR THEIR PROPERTIES.
- 17. THE CONTRACTOR SHALL TAKE MEASURES TO AVOID OVER EXCAVATION AND UNDERCUTTING TO LEAVE THE ARCHEOLOGICAL SITES ADJACENT TO THE PROJECT AREA UNDISTURBED.
- 18. REMOVAL OF GUARDRAIL TERMINAL SECTIONS PAID AT CONTRACT PRICE PER FOOT AS " GUARDRAIL REMOVAL".
- 19. CONTRACTOR IS RESPONSIBLE FOR DIVERTING RAYNS CREEK TO ALLOW CONSTRUCTION OF THE PROPOSED BOX CULVERT, NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE DIVERSION.

THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS 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.

#### COMMITMENTS

- THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: "PROTECTED WETLAND NO INTRUSION". THE SIGN(S) SHALL BE ATTACHED TO THE PERIMETER EROSION BARRIER STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN(S) SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER.
- DURING THE PLANNING PHASE OF THIS PROJECT, HIGH QUALITY WETLANDS WERE DISCOVERED IN THE VICINITY OF THE IMPROVEMENT. TO THE EXTENT POSSIBLE, AVOID ENTERING THE UN-IMPACTED WETLAND AREAS DURING CONSTRUCTION.
- DURING THE PLANNING PHASE OF THIS PROJECT, ARCHEOLOGICALLY SIGNIFICANT DURING THE PLANNING PHASE OF THIS PROJECT, ARCHEOLOGICALLY SIGNIFICANT SITES WERE DISCOVERED ADJACENT TO THE PROJECT AREA. THE PROJECT LIMITS WERE DEFINED TO AVOID ADVERSE EFFECTS TO THESE SITES; HOWEVER, THEY MUST BE AVOIDED DURING CONSTRUCTION. BY LAW, ARCHEOLOGICAL SITE LOCATIONS ARE PROTECTED AND CANNOT BE DISCLOSED TO THE PUBLIC. SITE LOCATIONS WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. STOCKPILING OF MATERIALS OR EQUIPMENT, OR INSTRUSION BY CONSTRUCTION PERSONNEL INTO THESE AREAS WILL BE STRICTLY PROHIBITED.



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

ILLINOIS	ROUTE	102 (F	AP 631	) & OL	D CHICAGO	RD	F.A.P RTE.	SECTION	Γ
HIGHWAY S	TANDA	RDS. CO	ммітм	FNTS 2	& GENERAL	NOTES	631	(111N-B)B-R	L
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SCALE	SHEET	OF	SHEETS	STA.	TO STA.		I	ILLINOIS FFD. A	ID

CONTRACT NO. 60V28

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COUNTY

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					NSTRUCTION CO	
			URBAN		ayns Creek	Old Chicago Rd
				ROADWAY	BOX CULVERT	ROADWAY
CODE			TOTAL	0021	0044	0021
NO.	ITEM	UNIT	QUANTITY		099-0918	RURAL
NO.	II LW	- ONT	QUANTITI	KUKAL	099-0910	RUNAL
/						
20101000	TEMPORARY FENCE	FOOT	300	300		
				ē.		
20101200	TREE ROOT PRUNING	EACH	4	4		
			e			
				3		
	Ü.					
		+				
20101700	SUPPLEMENTAL WATERING	UNIT	12	12		
20200100	EARTH EXCAVATION	CU YD	436	305		131
					,	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	143	130		13
4						
1-2	1.					
20700220	POROUS GRANULAR EMBANKMENT	CU YD	206	130	76	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	771	771		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	200	200	:	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	COTD	200	200		
6						
25000310	SEEDING, CLASS 4	ACRE	0.25	0.25		
c .						
25000314	SEEDING, CLASS 4B	ACRE	0.05	0.05		
6						



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			•	•	ER RAYN'S CREEK SHEET 1 OF 6
1	SCALE	SHEET	OF	SHEETS STA.	TO STA.

		FEDERAL 20% S	DERAL 20% STATE			
			URBAN		ayns Creek	Old Chicago Rd
				ROADWAY	BOX CULVERT	ROADWAY
CODE			TOTAL	0021	0044	0021
NO.	ITEM	UNIT	QUANTITY	RURAL	099-0918	RURAL
25000775	SELECTIVE MOWING STAKES	EACH	4	4		
25100630	EROSION CONTROL BLANKET	SQ YD	730	730		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	590	590		
2010000	THEAVY BOTT ENCORN CONTROL BEAUTICE	0415	300			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25	25		
28000305	TEMPORARY DITCH CHECKS	FOOT	86	86		
28000315	AGGREGATE DITCH CHECKS	TON	11	11		
28000400	PERIMETER EROSION BARRIER	FOOT	700	700		
20000400	PENIMETER EROSION BARRIER	1001	700	700		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	1320	1320		
28100109	STONE RIPRAP, CLASS A5	SQ YD	99		99	
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	15	15		
28200200	FILTER FABRIC	SQ YD	114	15	99	
20200200						
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	55	55		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1672	1414		258
40000005	DOLYMEDIZED LEVELING DINDED (MA QUINE METUCE). NEG	TON	0.7			0.7
40600825	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50	TON	37			37



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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS	<b>ROUTE 1</b>	02 (FA	P 631	) OVER	RAYN'S CREEK	F.A.P RTE.	
SUM	MARY OF	OUAN	MITITIES	S – SH	HEET 2 OF 6	631	
					<del>-</del>		
SCALE	SHEET	OF	SHEETS	STA.	TO STA.		

CONSTRUCTION CODE

			LIDDAN	80%	FEDERAL 20% S	
			URBAN		ayns Creek	Old Chicago Rd
				ROADWAY	BOX CULVERT	ROADWAY
CODE			TOTAL	0021	0044	0021
NO.	ITEM	UNIT	QUANTITY	RURAL	099-0918	RURAL
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	73			73
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	720	720		
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	720	720		
40701886	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/4"	SQ YD	980	800		180
44000100	PAVEMENT REMOVAL	SQ YD	822	822		
44004250	PAVED SHOULDER REMOVAL	SQ YD	301	171		130
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	446	371		75
48203038	HOT-MIX ASPHALT SHOULDERS, 10 1/4"	SQ YD	546	546		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50104000	BRIDGE RAIL REMOVAL	FOOT	45		45	
50200100	STRUCTURE EXCAVATION	CU YD	934	_	934	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	76		76	
50300300	PROTECTIVE COAT	SQ YD	43		43	
50800205	DEINICODOEMENT DADS EDOW COATED	POUND	116630		116630	
50000203	REINFORCEMENT BARS, EPOXY COATED	I COND	110030		110000	



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			•	AP 631) OVER RAYN'S C ANTITIES — SHEET 3 OF (	
1	SCALE	SHEET	OF	SHEETS STA. TO STA	

**CONSTRUCTION CODE** 

RTÉ.   SECTION   COUNTY   SHEETS			
RTE. SECTION COUNTY SHEETS	CONTRACT NO. 60V		
RTE. SECTION COUNTY SHEETS	WILL 47	631 (111N-B)B-R	
1-1-1	COUNTY TOTAL SHEETS	F.A.P RTE. SECTION	

			CONSTRUCTION CODE 80% FEDERAL 20% STATE			
			URBAN		ayns Creek	Old Chicago Rd
				ROADWAY	BOX CULVERT	ROADWAY
CODE			TOTAL	0021	0044	0021
NO.	ITEM	UNIT	QUANTITY	RURAL	099-0918	RURAL
	1		<u> </u>		333 33 13	1,01,11,12
50900200	STEEL RAILING, TYPE 2399	FOOT	179		179	
51500100	NAME PLATES	EACH	1		1	
54003000	CONCRETE BOX CULVERTS	CUYD	425		425	
54213447	END SECTIONS 12"	EACH	2	2		
58700300	CONCRETE SEALER	SQ FT	572		572	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	13		13	
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	2		
60100945	PIPE DRAINS 12"	FOOT	12	12		
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	20	20		- 3
60600605	CONCRETE CURB, TYPE B	FOOT	64	64		
0000000	CONGRETE GORD, TITE B	1001	04	04		
61000050	CONCRETE THRUST BLOCKS	EACH	2	2		
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	2	2		
		27.0.1	_	_		
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	225	225		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			•	P 631) OVER ITITIES — SH	RAYN'S CREEK EET 4 OF 6
100	SCALE	SHEET	OF	SHEETS STA.	TO STA.

* 631000 * 631001 632003 642001 * 669002 * 669004	167 TR	ITEM  RAFFIC BARRIER TERMINAL, TYPE 6A  RAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT  SUARDRAIL REMOVAL	UNIT EACH	TOTAL QUANTITY  4		BOX CULVERT 0044 099-0918	Old Chicago Rd
* 631000 * 631001 632003 642001 * 669002 * 669004	087 TR 167 TR	RAFFIC BARRIER TERMINAL, TYPE 6A RAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	QUANTITY 4	ROADWAY 0021 RURAL	BOX CULVERT 0044	ROADWAY 0021
* 631000 * 631001 632003 642001 * 669002 * 669004	087 TR 167 TR	RAFFIC BARRIER TERMINAL, TYPE 6A RAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	QUANTITY 4	0021 RURAL	0044	0021
* 631000 * 631001 632003 642001 * 669002 * 669004	087 TR 167 TR	RAFFIC BARRIER TERMINAL, TYPE 6A RAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	QUANTITY 4	RURAL		
* 631000 * 631001 632003 642001 * 669002 * 669004	087 TR 167 TR 310 GL	RAFFIC BARRIER TERMINAL, TYPE 6A RAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		099-0918	RURAL
* 669004 * 669005	167 TR	RAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT			4		
* 669004 * 669005	167 TR	RAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT			4		
632003 642001 * 669002 * 669004	310 GL		EACH	4		-	
642001 <b>*</b> 669002 <b>*</b> 669004		SUARDRAIL REMOVAL	l		4		
* 669004 * 669005	108 SF		FOOT	831	831		
<b>k</b> 669002 <b>k</b> 669004 <b>k</b> 669005	108 SH						
* 669004 * 669005		HOULDER RUMBLE STRIPS, 8 INCH	FOOT	614	614		
* 669005	200 NC	ON-SPECIAL WASTE DISPOSAL	CU YD	530	530		
* 669005							
	450 SF	PECIAL WASTE PLANS AND REPORTS	L SUM	1	1		
670004	530 SC	OIL DISPOSAL ANALYSIS	EACH	2	2		
J070004	400	NOINEEDIS FIELD OFFICE TYPE A	CAL MO	6	e		
	400 EN	NGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
671001	100 МС	OBILIZATION	L SUM	1	1		
703001	100 SH	HORT TERM PAVEMENT MARKING	FOOT	233	112		121
2							
703001	150 SF	HORT TERM PAVEMENT MARKING REMOVAL	SQ FT	77	37		40
725010	000 TE	ERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
780002	200 TH	HERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1754	614		1140
780006		HERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	17			17



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	PLOT SCALE = 2.0000 '/ in.	CHECKED	-	JA	REVISED	=
	PLOT DATE = 5/31/2018	DATE	-	05/24/2018	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 102 (FAP 631) OVER RAYN'S CREEK SUMMARY OF QUANTITIES — SHEET 5 OF 6

E SHEET OF SHEETS STA. TO STA.

					NSTRUCTION CO			
			URBAN			DERAL 20% STATE		
-	·		01187111		ayns Creek	Old Chicago Rd		
0005			TOTAL	ROADWAY	BOX CULVERT	ROADWAY		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021 RURAL	0044 099-0918	0021 RURAL		
NO.	ITLIW	ONIT	QUANTITI	KORAL	099-0910	KORAL		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8				
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20	20				
K0013000	PERENNIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	5	5				
9								
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	235		235			
\(\text{mag_1}\)								
X0325222	WEED CONTROL, BASAL TREATMENT	GALLON	2.5	2.5				
X0326519	STEEL RAILING REMOVAL	FOOT	45	45				
7.65266.16		1	10	10				
X0326898	CENTER LINE - RUMBLE STRIP - 16"	FOOT	300	300				
			,					
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	377			377		
X2503112	MOWING (SPECIAL)	SQ YD	2500	2500				
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	90		90			
V0004005	DOMODETE GUIDA TARE D'ADEGUAL)			04				
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	64	64	-			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	3			
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	115	90		25		
X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	380	380				
Z0076600	TRAINEES	HOURS	500	500				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURS	500	500				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	104	52		52		

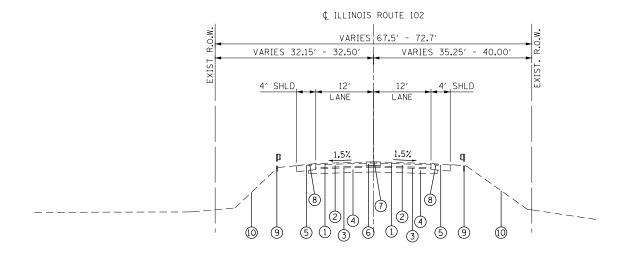
**\* \*** = 0042

111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 ENGINEERS & SURVEYORS Ph: 312-235-6783

	USER NAME = tmohammed	DESIGNED	3.40	TOM	REVISED -
•[		DRAWN	-	AWM	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED	-	JA	REVISED -
	PLOT DATE = 5/31/2018	DATE	-	05/24/2018	REVISED -

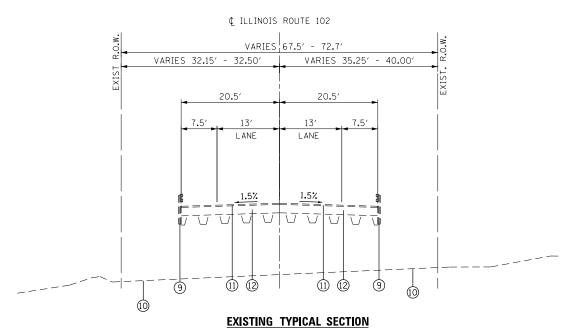
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			•	•	R RAYN'S CREEK HEET 6 OF 6
1	SCALE	SHEET	OF	SHEETS STA.	TO STA.



#### **EXISTING TYPICAL SECTION**

STA. 741+00.00 TO STA. 741+46.00 STA. 741+69.00 TO STA. 744+00.00



STA. 741+46.00 TO STA. 741+69.00

#### 111 S. Wacker Drive, Suite 3910 Chleago, IL 60606 Ph: 312–235–6783

USER NAME = tmohammed	DESIGNED	-	ТОМ	REVISED -	
	DRAWN	-	AWM	REVISED -	
PLOT SCALE = 20.0000 '/ in.	CHECKED	-	JA	REVISED -	
PLOT DATE = 5/31/2018	DATE	-	05/24/2018	REVISED -	

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE

ILLINOIS	ROUTE 102	(FAP 631	) OVER RAY	N'S CREEK	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FXISTING	TYPICAL	SECTIONS		631	(111N-B)B-R	WILL	47	9
	LAIOIIIIG	11110/12	020110110				CONTRACT	NO. 6	0V28
	CUEET OF	CHEETC	CTA	TO CTA					

#### **EXISTING LEGEND**

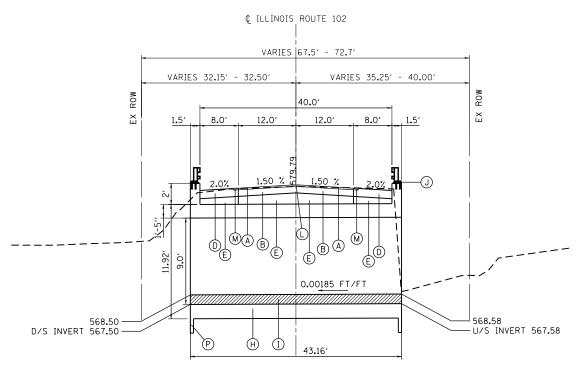
- 1 EXISTING HMA SURFACE COURSE, 1 1/2"
- ② EXISTING HMA OVERLAY 4" TO 6 1/2"
- 3 EXISTING HMA OVERLAY 3"
- 4 EXISTING HMA BASECOURSE (VAR. THICKNESS)
- 5 EXISTING HMA SHOULDER 8"
- 6 EXISTING HMA SURFACE COURSE, MIX "D", N50
- 7 EXISTING CENTERLINE RUMBLE STRIPS, (16" WIDE)
- 8 EXISTING SHOULDER RUMBLE STRIPS, (8" WIDE)
- 9 EXISTING GUARD RAIL
- 10 EXISTING EMBANKMENT
- 11) EXISTING PCC PAVEMENT
- (12) EXISTING STRUCTURE TO BE REMOVED

#### PROPOSED TYPICAL SECTION

STA. 741+00.00 TO STA. 741+35.00 STA. 741+78.00 TO STA. 744+00.00

#### CONSTRUCTION LIMITS

STA. 738+00.00 TO STA. 741+00.00 STA. 744+00.00 TO STA. 745+00.00



#### PROPOSED TYPICAL SECTION

STA. 741+35.00 TO STA. 741+78.00

#### **HMA MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)			
HMA PAVEMENT (FD), 101/4"					
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5MM)	4% @ 70 GYR	OC/QA			
HOT-MIX ASPHALT, BASE COURSE 8 <sup>1</sup> / <sub>4</sub> ", (HMA BINDER, IL-19.0)	4% @ 70 GYR	OC/QA			
HOT MIX ASPHALT SHOULDERS, 101/4	,,				
2" HMA SURFACE COURSE, MIX D N70 (IL-9.5MM)	4% @ 70 GYR	QC/QA			
81/4" HMA BINDER IL-19 MM	4% @ 70 GYR	QC/QA			
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)					

#### **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 POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
- 3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

#### **PROPOSED LEGEND**

- (A) 2" HMA SURFACE COURSE, MIX "D", N70
- (B)  $8\frac{1}{4}$ " HMA BASE COURSE, IL-19.0, N70
- C) 12" AGGREGATE SUBGRADE IMPROVEMENT
- D HMA SHOULDERS, 10-1/4"
- © AGGREGATE SUBGRADE IMPROVEMENT
- F) STEEL PLATE GUARDRAIL, TYPE A
- G RESTORATION LANDSCAPING:
  - EROSION CONTROL BLANKET
  - SEEDING CLASS 4/4B - TOPSOIL 4"
- (H) CONCRETE BOX CLVERT
- (I) GRANULAR BACKFILL FOR STRUCTURES (FOR EMBEDMENT-12")
- (J) STEEL RAILING, TYPE 2399
- (K) EMBANKMENT
- CENTERLINE RUMBLE STRIPS, (16" WIDE)
- M SHOULDER RUMBLE STRIPS, (8" WIDE)
- (N) AGGREGATE SHOULDERS, TYPE B 8"
- P TOE WALL

SCALE

USER NAME = tmohammed	DESIGNED	-	ТОМ	REVISED -
	DRAWN	-	AWM	REVISED -
PLOT SCALE = 20.0000 '/ in.	CHECKED	-	JA	REVISED -
PLOT DATE = 5/31/2018	DATE	-	05/24/2018	REVISED -

ILLINOIS	<b>ROUTE 10</b>	2 (FAP 631	) OVER RAYN	I'S CREEK	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRODO	EN TYPIC	L SECTIONS		631	(111N-B)B-R	WILL	47	10
	r nor o.	SLD IIIIGA	AL SECTIONS				CONTRACT	NO. 6	0V28
	CUEET	OF CHEETC	CTA	TO CTA					

#### EX. ¢ OLD CHICAGO ROAD 40′ 40′ 4' TO 6' 11'-25' AGG SHLD LANF LANE VAR. VAR. VAR. EXISTING TYPICAL SECTION (OLD CHICAGO ROAD) LOOKING NORTH STA. 332+86.15 TO STA 333+70.20 EX. ¢ OLD CHICAGO ROAD 40′ 40′ 2'-10.5' LANE LANE PAVEMENT AGO WIDENING SHL TO 6.5' PAVEMENT WIDENING VAR. VAR. VAR. (D) (E) PROPOSED TYPICAL SECTION (OLD CHICAGO ROAD) LOOKING NORTH STA. 332+86.15 TO STA 333+70.20 EX. ¢ OLD CHICAGO ROAD 40' 40' 4' TO 6' 6' TO 9' AGG SHLD LANE LANE HMA SHLD VAR. VAR. VAR. VAR. 3 1 2 EXISTING TYPICAL SECTION (OLD CHICAGO ROAD) LOOKING NORTH STA. 332+70.20 TO STA. 335+85.00 EX. ¢ OLD CHICAGO ROAD 40′ 40′ 9'-12.5 LANE LANE ′ TO 6.5′ PAVEMENT WIDENING VAR. VAR. VAR. PROPOSED TYPICAL SECTION (OLD CHICAGO ROAD) LOOKING NORTH STA. 332+70.20 TO STA. 335+85.00 DESIGNED - TOM REVISED REVISED

#### HMA MIXTURE REQUIREMENTS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS MIXTURE TYPE	AIR VOIDS @ NDES	QMP				
PAVEMENT RESURFACING 21/4"						
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N5O (IL 9.5 MM) - 1½"	4% @ 50 GYR.	QC/QA				
POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50 - ¾''	3.5% @ 50 GYR.	QC/QA				
PAVEMENT RECONSTRUCTION, 101/4"						
HOT-MIX ASPHALT SURFACE COURSE, (IL-9,5MM) - 2"	4.0% @ 50 GYR.	QC/QA				
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 81/4"	4.0% @ 50 GYR.	QC/QA				
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA):						

#### **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 POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
- 3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

#### **EXISTING LEGEND**

- 1) HMA SURFACE MILLING 2 1/4"
- EXISTING HMA OVERLAY 4" TO 6 1/2"
- (3) EXISTING HMA BASECOURSE (VAR. THICKNESS)
- EXISTING HMA SHOULDER 8" (PAID FOR AS PAVED SHOULDER REMOVAL)
- EXISTING EMBANKMENT
- EXISTING AGGREGATE SHOULDER (REMOVAL PAID FOR AS EARTH EXCAVATION)
- 7 EXISTING PAVEMENT MARKING LINE

#### PROPOSED LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 MM) 1 1/2"
- POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50 3/4"
- HOT-MIX ASPHALT SURFACE COURSE, 2"
- HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 8 1/4"
- AGGREGATE SUBGRADE IMPROVEMENT 12"
- AGGREGATE SHOULDERS, TYPE B 6"
- RESTORATION LANDSCAPING:
   EROSION CONTROL BLANKET
   SEEDING CLASS 2A
   TOPSOIL 4" (C)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (2 SOLID YELLOW)

HMA SURFACE MILLING 2 1/4"

SHOULDER REMOVAL (VAR DEPTH)

NOTE: PAVED SHOULDER STRUCTURE NOMINAL. NO ADJUSTMENT IN UNIT PRICE FOR VARIATIONS.

DRAWN AWM CHECKED -REVISED PLOT DATE = 5/31/2018 DATE REVISED 05/24/2018

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  ILLINOIS ROUTE 102 (FAP 631) & OLD CHICAGO RD INTERSECTION IMPROVEMENTS EX. & PR. TYPICALS SHEETS STA.

SECTION COUNTY 631 (111N-B)B-R WILL 47 11 CONTRACT NO. 60V28

## IL 102 (RAYN'S CREEK) EARTHWORK SCHEDULE

					Adjust for Shrinkage			Earthwork Balance Waste (+) or	Remove & Dispose of Unsuitable	Porous Granular
From Station	To Station	Length	Topsoil Stripping	Excavation	(15%)	Fill	Topsoil Placement	Shortage (-)	Material	Embankment
		(FT)	(CuYd)	(CuYd)	(CuYd)	(CuYd)	(CuYd)	(CuYd)	(CuYd)	(CuYd)
Α	В	C = B-A	D	Е	F = E*(85%)	G		H = F - G	I	J = I
738+81.29	739+00.00	18.71	0.7	0.2	0.2	0.0	2.7	0.2		
739+00.00	739+29.35	29.35	4.1	0.9	0.8	1.1	3.8	-0.3		
739+29.35	739+39.36	10.01	2.1	0.4	0.3	0.9	1.3	-0.6		
739+39.36	739+41.75	2.39	0.5	0.1	0.1	0.2	0.4	-0.1		
739+41.75	739+50.00	8.25	1.8	0.2	0.2	0.4	1.8	-0.2		
739+50.00	739+89.71	39.71	13	1.5	1.3	3.5	9.5	-2.2		
739+89.71	739+99.70	9.99	4.4	0.6	0.5	1.8	3.1	-1.3		
739+99.70	740+00.00	0.30	0.1	0.0	0.0	0.1	0.2	-0.1		
740+00.00	740+50.00	50.00	23.5	3.1	2.6	14.6	31.9	-12.0		
740+50.00	741+00.00	50.00	27.2	33.1	28.1	26.9	30.0	1.2	20.9	20.9
741+00.00	741+01.76	1.76	0.9	2.2	1.9	1.0	1.0	0.9	0.7	0.7
741+01.76	741+24.62	22.86	7	30.4	25.8	5.5	13.2	20.3	9.6	9.6
741+24.62	741+33.09	8.47	1.9	11.7	9.9	0.0	5.1	9.9	1.8	1.8
741+33.09	741+50.00	16.91			STRUCTURE OMI	SSION				
741+50.00	741+80.13	30.13								
741+80.13	741+88.56	8.43	3.9	4.0	3.4	5.4	4.1	-2.0	3.5	3.5
741+88.56	742+00.00	11.44	5.1	11.3	9.6	5.0	4.5	4.6	4.8	4.8
742+00.00	742+11.37	11.37	5.9	11.5	9.8	3.2	4.1	6.6	4.8	4.8
742+11.37	742+50.00	38.63	22.5	36.8	31.3	13.2	22.1	18.1	16.2	16.2
742+50.00	743+00.00	50.00	26.5	44.4	37.7	19.4	28.0	18.3	20.9	20.9
743+00.00	743+13.60	13.60	6.5	11.1	9.4	4.5	5.2	4.9	5.7	5.7
743+13.60	743+23.60	10.00	4.6	8.6	7.3	3.4	4.3	3.9	4.2	4.2
743+23.60	743+47.60	24.00	11.6	23.6	20.1	6.5	10.3	13.6	10.0	10.0
743+47.60	743+50.00	2.40	1.2	2.5	2.1	0.5	1.0	1.6	1.0	1.0
743+50.00	743+74.00	24.00	11.5	26.3	22.4	3.9	6.7	18.5	10.0	10.0
743+74.00	743+84.02	10.02	4.7	12.0	10.2	1.0	1.3	9.2	4.2	4.2
743+84.02	744+00.00	15.98	6.5	21.2	18.0	0.7	1.5	17.3	6.7	6.7
744+00.00	744+08.00	8.00	1.4	5.6	4.8	0.1	0.6	4.7	1.7	1.7
Totals			200.0	305.0	260.0	125.0	200.0	135.0	130.0	130.0

#### **NOTES:**

THE QUANTITY OF EXISTING TOPSOIL STRIPPING WAS ESTIMATED USING A UNIFORM 6" DEPTH. TOPSOIL PLACEMENT WILL USE A NOMINAL 6" DEPTH. THE INTENT IS TO BALANCE THE EXISTING TOPSOIL WITHIN THE CONTRACT LIMITS. THE CONTRACTOR MAY VARY THE THICKNESS OF THE TOPSOIL PLACEMENT BETWEEN 5" AND 9" TO ACHIEVE THIS BALANCE. NO PAYMENT WILL BE MADE FOR DISPOSAL OR HAULING OF TOPSOIL.

## IL 102 AT OLD CHICAGO ROAD EARTHWORK SCHEDULE

LOCATION STATION TO STATION	SIDE	EARTH EXCAVATION	UNSUITABLE MATERIAL	15% ADJUSTMENT FOR SHRINKAGE	FILL EMBANKMENT	EARTHWORK BALANCE WASTE(+) SHORTAGE(-)
STATION TO STATION		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
OLD CHICAGO ROAD	LT/RT					
333+00.00 TO 333+50.00	LT&RT	39.35	3.94	30.10	0.82	29.28
333+50.00 TO 334+00.00	LT&RT	37.98	3.80	29.06	0.78	28.28
334+00.00 TO 334+50.00	LT&RT	29.30	2.93	22.41	0.73	21.68
334+50.00 TO 335+00.00	LT&RT	24.79	2.48	18.96	0.71	18.25
TOTAL		131.42	13.14	100.53	3.05	97.48



USER NAME = untitled	DESIGNED - JNH	REVISED -
	DRAWN - JNH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - JWK	REVISED -
PLOT DATE = 5/25/2018	DATE - 5/25/18	REVISED -

SCALE: N/A

ILLINOIS ROUTE 102 OVER RAYN'S CREEK SCHEDULE OF QUANTITIES						'S CREEK	F.A.P. SECTION COUNTY		COUNTY	TOTAL SHEETS	SHEET NO.
						:e	631 (111N-B)B-R W		WILL	47	12
						.3	·		CONTRACT	NO. 6	0V28
SHEET	1	OF	2	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

#### **SELECTIVE MOWING STAKES**

STATION	OFFSET	QUANTITY (EACH)
738+00	LT	1
738+35	RT	1
744+10	RT	1
744+84	LT	1
TOTAL		4

#### AGGREGATE DITCH CHECKS

STATION	OFFSET	QUANTITY (TONS)
738+00	LT	0.4
739+00	RT	0.9
742+50	RT	1.9
742+83	RT	1.9
743+17	RT	2.3
743+49	RT	2.3
744+00	RT	0.9
TOTAL		10.6

#### PERIMETER EROSION BARRIER

STATION	STATION	OFFSET	LENGTH (FT)
739+50.0	741+59.7	LT	209.7
739+50.0	741+27.0	RT	177.0
741+82.4	744+00.0	LT	217.6
741+55.0	742+50.0	RT	95.0
TOTAL			699.3

#### CONCRETE HEADWALL FOR PIPE DRAINS

STATION	OFFSET	QUANTITY (EACH)
740+68.3	29.7 LT	1
740+68.3	29.0 RT	1
TOTAL		2

#### PIPE UNDERDRAIN TYPE 2 4"

	STATION	OFFSET	QUANTITY (FT)
	740+68.3	29.7 LT	10
Ī	740+68.3	29.0 RT	10
ſ	TOTAL		20

#### CONC CURB TB

STATION	STATION	OFFSET	LENGTH (FT)	ADAJACENT TO
741+08.7	741+24.7	LT	16	GR1
742+11.4	742+27.4	LT	16	GR2
740+85.8	741+01.8	RT	16	GR3
741+88.6	742+04.6	RT	16	GR4
TOTAL			64	

#### SPBGR TY A 9FT POSTS

STATION	STATION	OFFSET	LENGTH (FT)	DESIGNATION
740+87.2	740+49.7	LT	37.5	GR1
742+48.9	743+23.9	LT	75.0	GR2
740+64.3	739+89.3	RT	75.0	GR3
742+26.1	742+63.6	RT	37.5	GR4
TOTAL			225.0	

#### TRAFFIC BARRIER TERMINAL, TYPE 6A

STATION	STATION	OFFSET	QUANTITY	DESIGNATION
741+26.6	740+87.2	LT	1.0	GR1
742+09.5	742+48.9	LT	1.0	GR2
741+03.7	740+64.3	RT	1.0	GR3
741+86.7	742+26.1	RT	1.0	GR4
TOTAL			4.0	

#### TRAFFIC BARRIER TERMINAL, T1 (SPEC) TAN

STATION	STATION	OFFSET	QUANTITY	DESIGNATION
740+49.7	739+99.7	LT	1.0	GR1
743+23.9	743+73.9	LT	1.0	GR2
739+89.3	739+39.3	RT	1.0	GR3
742+63.6	743+13.6	RT	1.0	GR4
TOTAL			4.0	

#### TERMINAL MARKER - DIRECT APPLIED

STATION	OFFSET	QUANTITY	DESIGNATION
739+99.7	LT	1.0	GR1
743+73.9	LT	1.0	GR2
739+39.3	RT	1.0	GR3
743+13.6	RT	1.0	GR4
TOTAL		4.0	

#### **PAVEMENT SCHEDULE**

	. /							
		AGGREGATE	HMA*	PVT	PAVED	НМА		
		SUBGRADE	PVT FD	REM	SHLD	SHLD		
		IMPROVE, 12"	10 1/4"		REM	10 1/4"		
FROM	TO	AREA	AREA	AREA	AREA	AREA		
STATION	STATION	(SQYD)	(SQYD)	(SQYD)	(SQYD)	(SQYD)		
740+86.0	744+00.0	1414	800	822	171	546		

\* 2" SURFACE, 8 1/4" BINDER

## IL 102 AT OLD CHICAGO ROAD PAVEMENT REMOVAL SCHEDULE

LOCATION	SIDE	PAVED SHOULDER REMOVAL
STATION TO STATION	LT/RT	(SQ YD)
OLD CHICAGO ROAD		
333+00.00 TO 333+50.00	LT&RT	130
333+50.00 TO 334+00.00	LT&RT	-
334+00.00 TO 334+50.00	LT&RT	_
334+50.00 TO 335+00.00	LT&RT	-
TOTAL		130

## PAVEMENT SCHEDULE

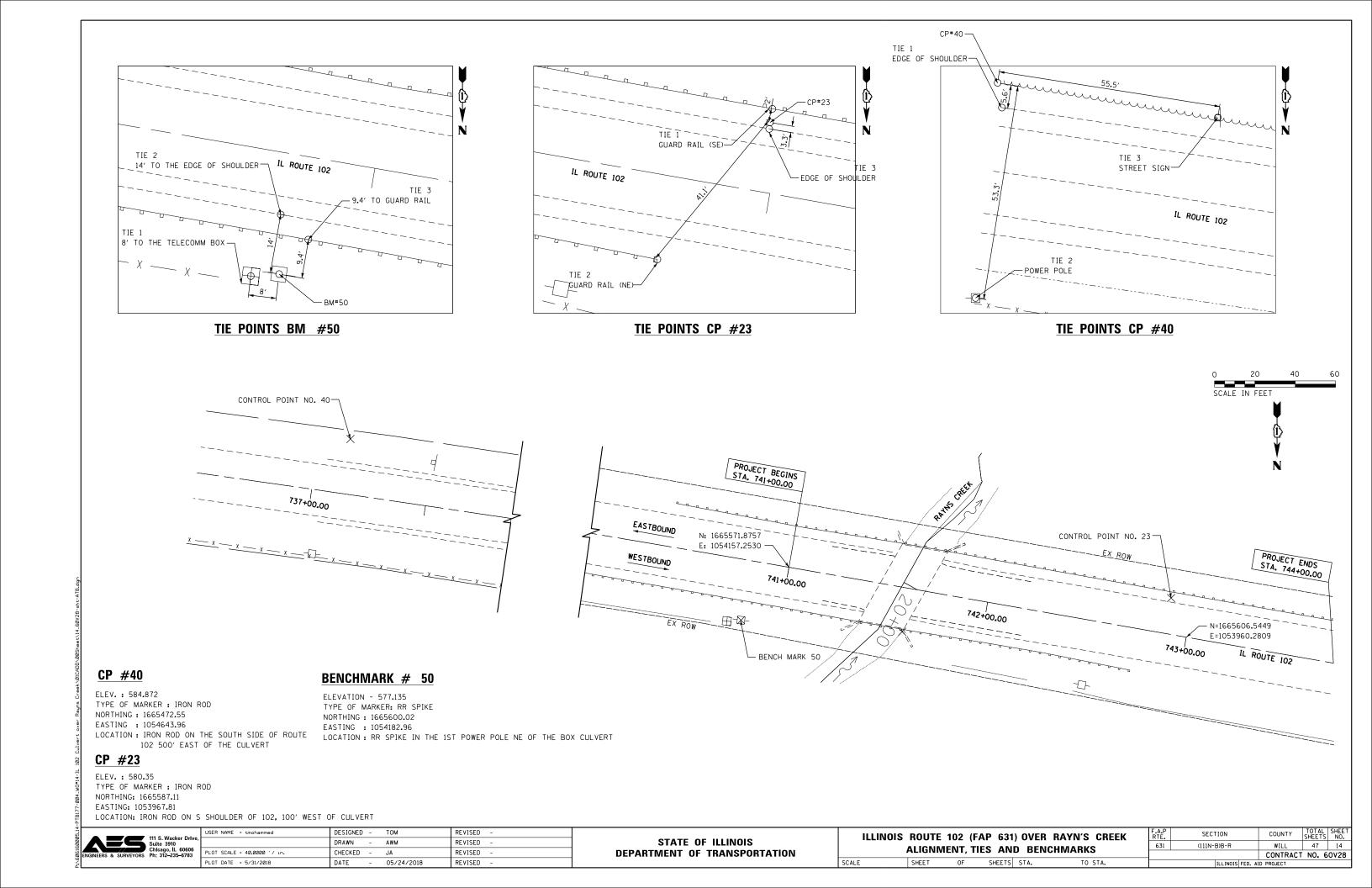
LOCATION	SIDE	AGGREGATE SUBGRADE IMPROVEMENT 12"	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/4"
STATION TO STATION	LT/RT	(SQ YD)	(TON)
OLD CHICAGO ROAD			
333+00.00 TO 333+50.00	LT&RT	71,53	52.36
333+50.00 TO 334+00.00	LT&RT	47.50	34.72
334+00.00 TO 334+50.00	LT&RT	48.89	36.11
334+50.00 TO 335+00.00	LT&RT	43.33	30.56
335+00.00 TO 335+50.00	LT&RT	32.22	19.44
335+50.00 TO 335+85.00	LT&RT	13.81	6.81
TOTAL		258.0	180.0

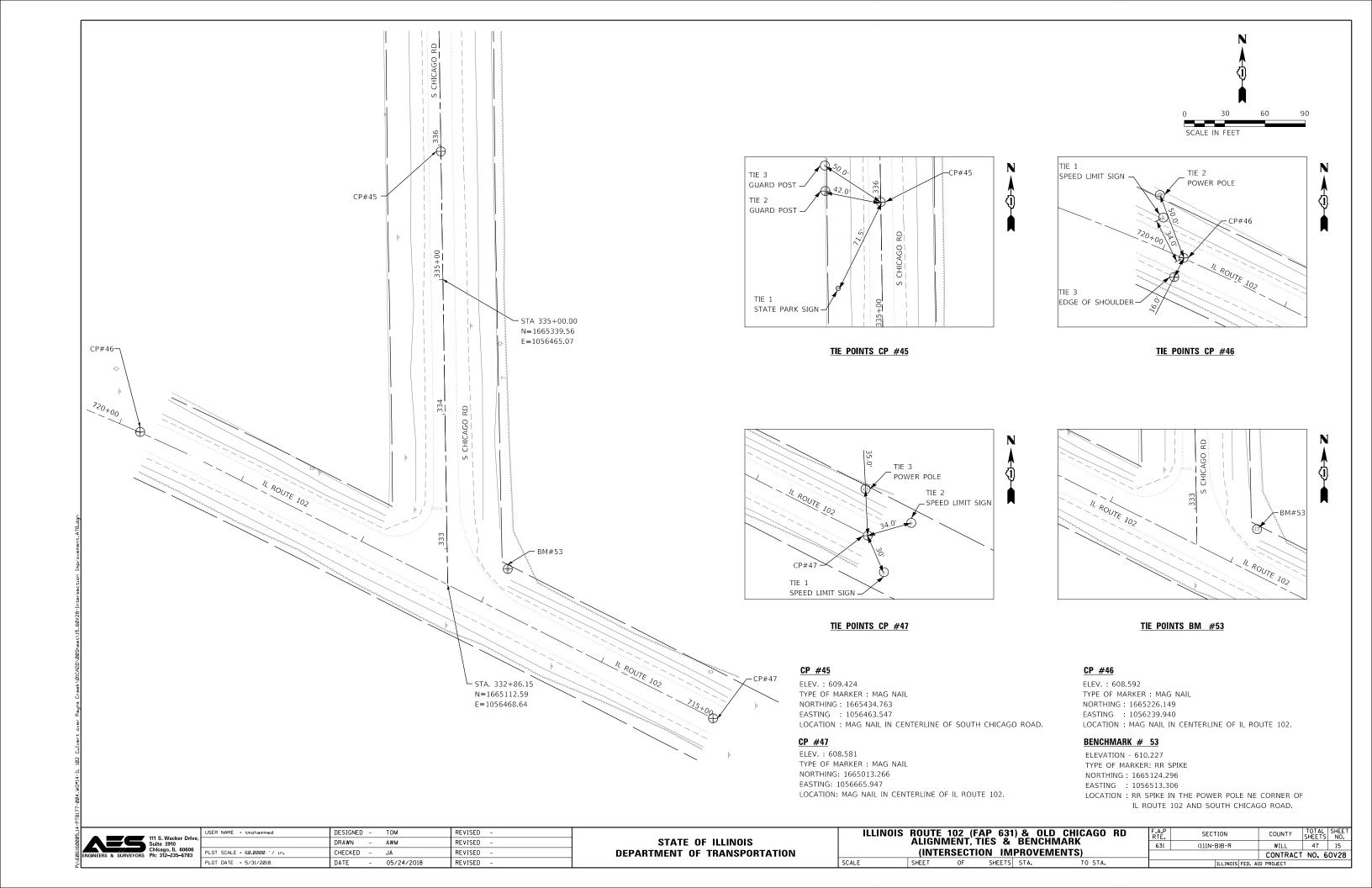
# IL 102 AT OLD CHICAGO ROAD PAVEMENT MARKING SCHEDULE

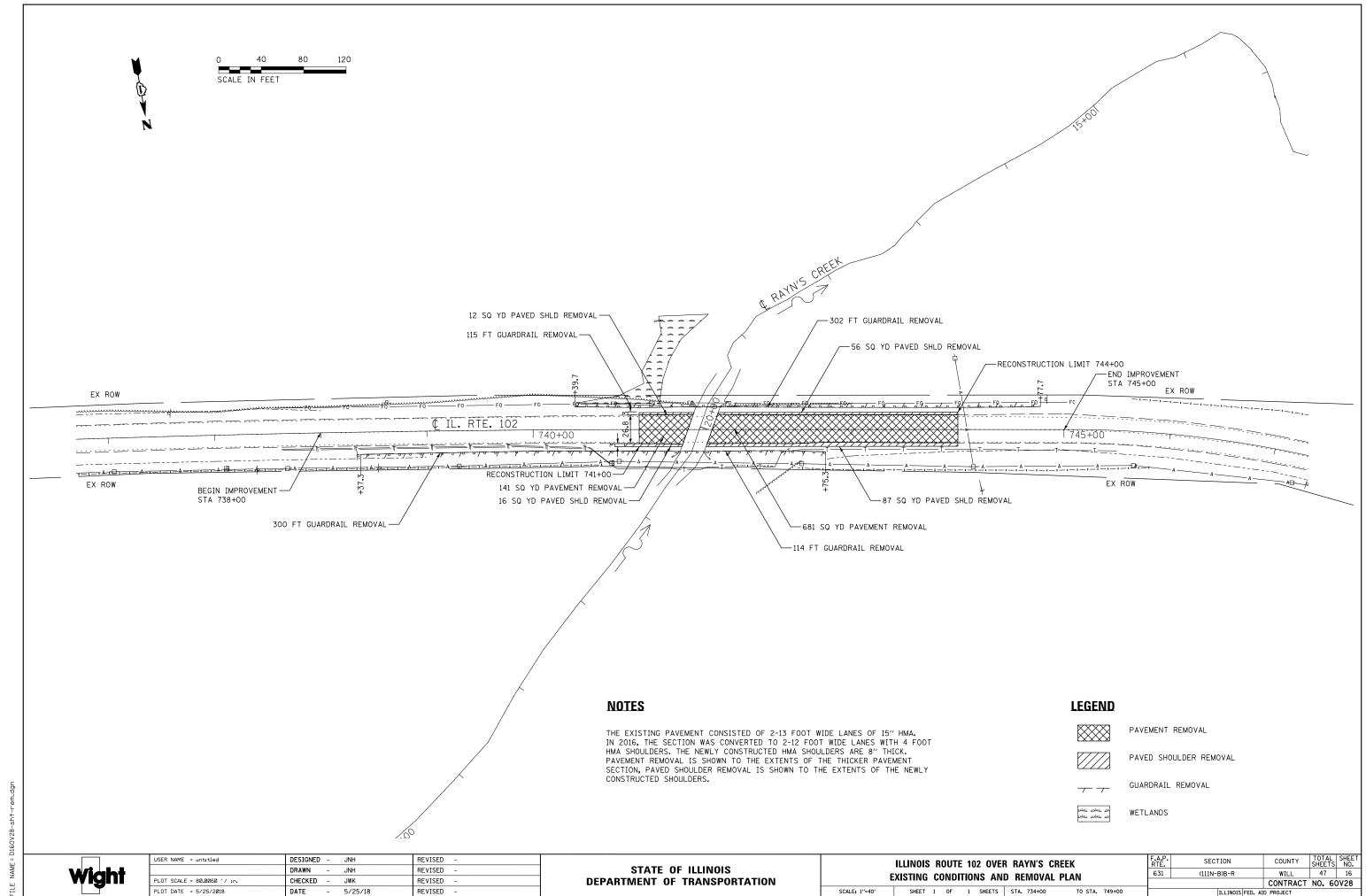
LOCATION	SIDE	THERMOPLASTIC PAVEMENT MARKING (FOOT)			PAVEMENT MARKING	
		(YELLOW)	(WHITE)		REMOVAL	
STATION TO STATION	LT/RT	LINE 4"	LINE 4"	LINE 24"	(SQ. FT.)	
OLD CHICAGO ROAD						
333+00.00 TO 335+85.00	LT/RT	570	570	17	377	
TOTAL	LT/RT	570	570 17		377	



USER NAME = untitled	DESIGNED -	JNH	REVISED -
	DRAWN -	JNH	REVISED -
PLOT SCALE = 2.0000 '/ in.	CHECKED -	JWK	REVISED -
PLOT DATE = 5/25/2018	DATE -	5/25/18	REVISED -

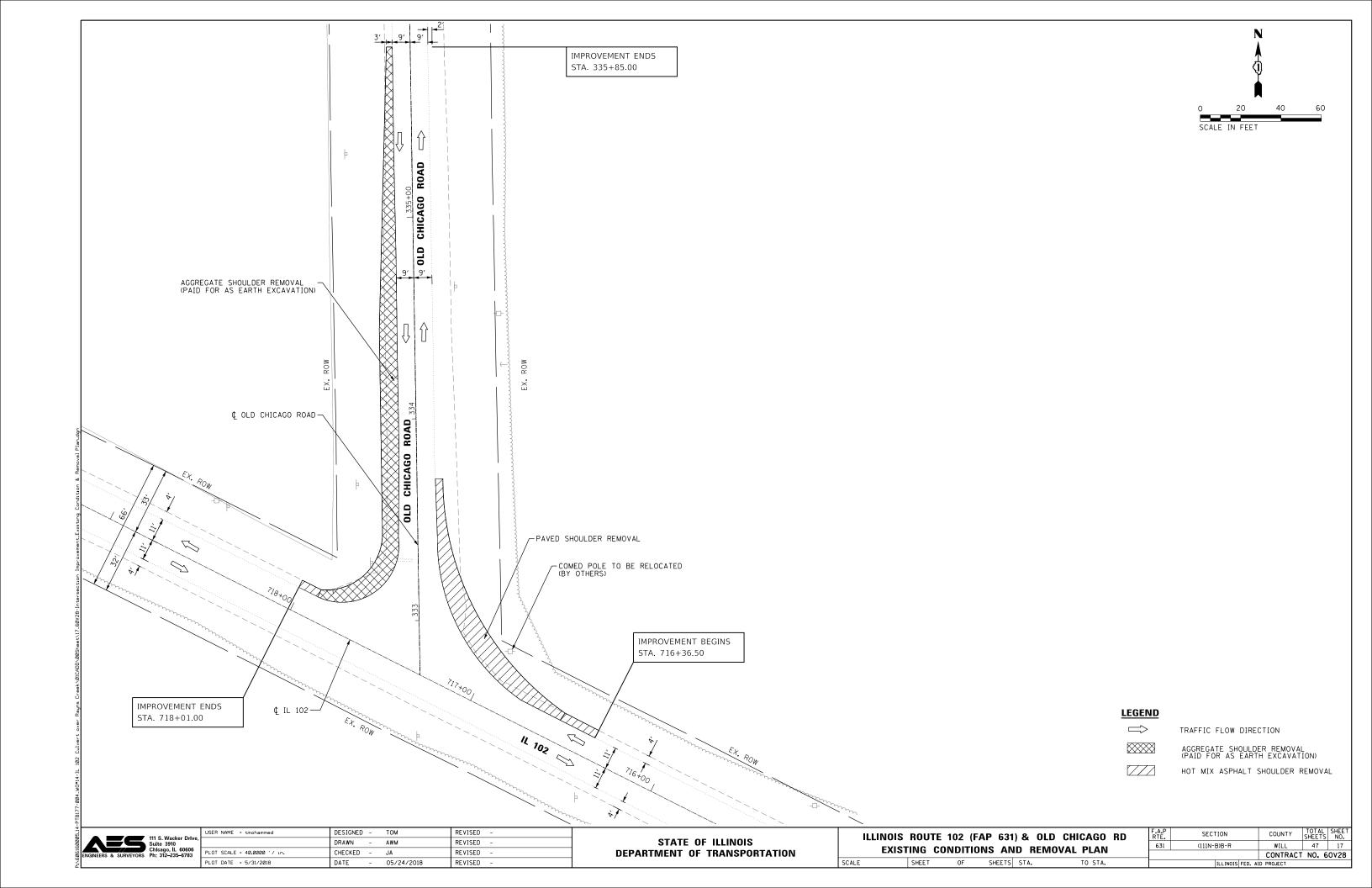


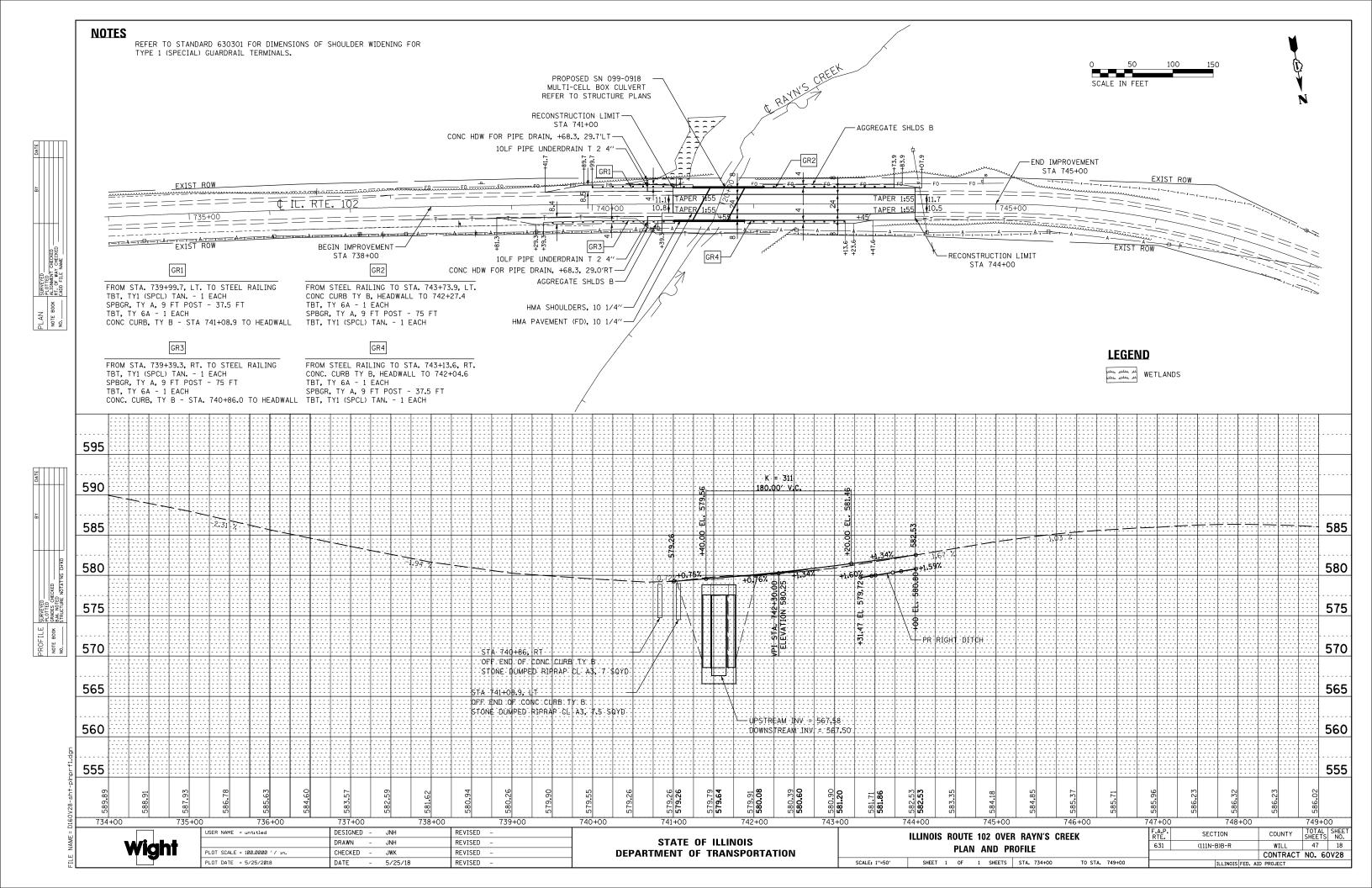


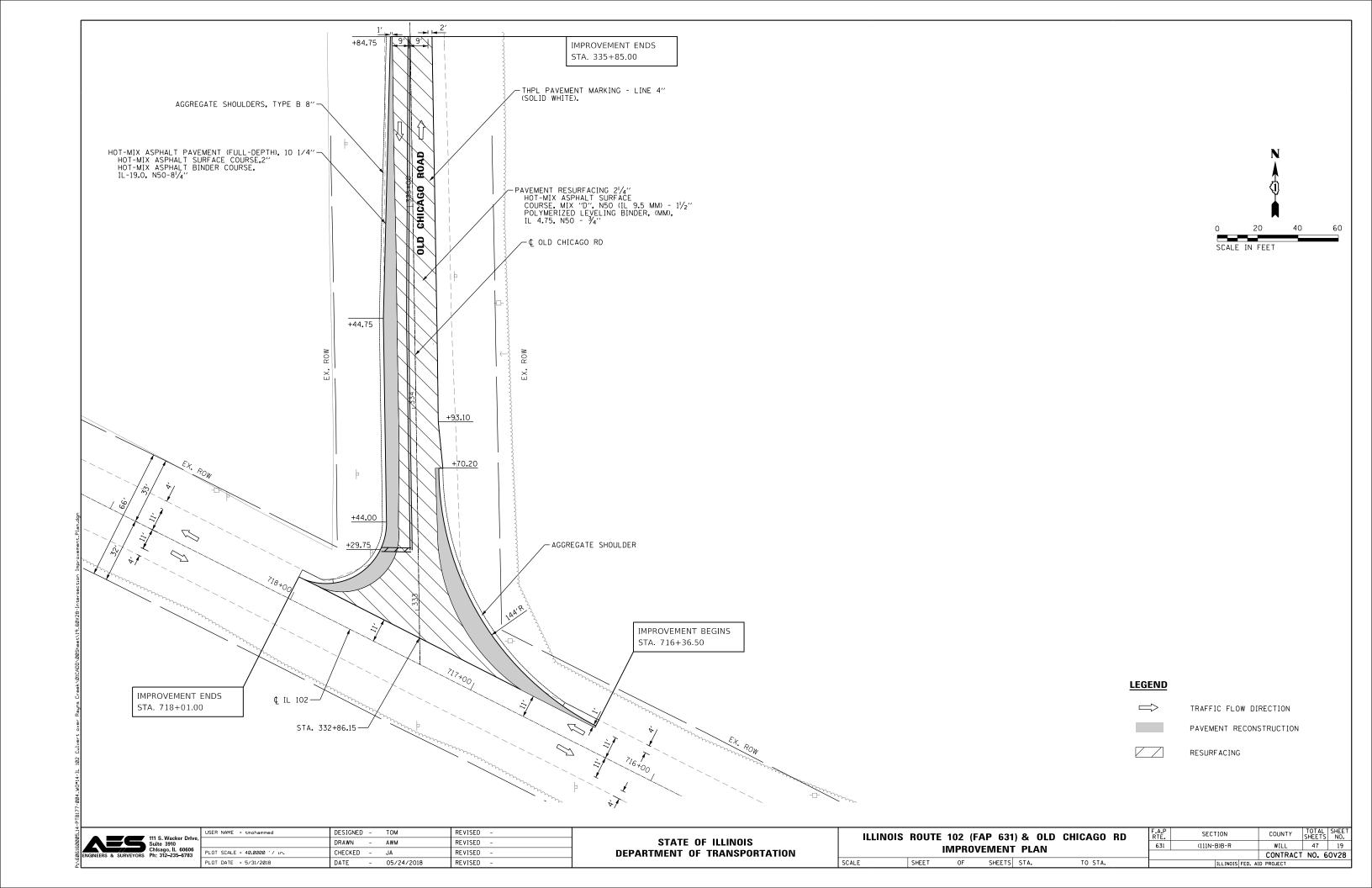


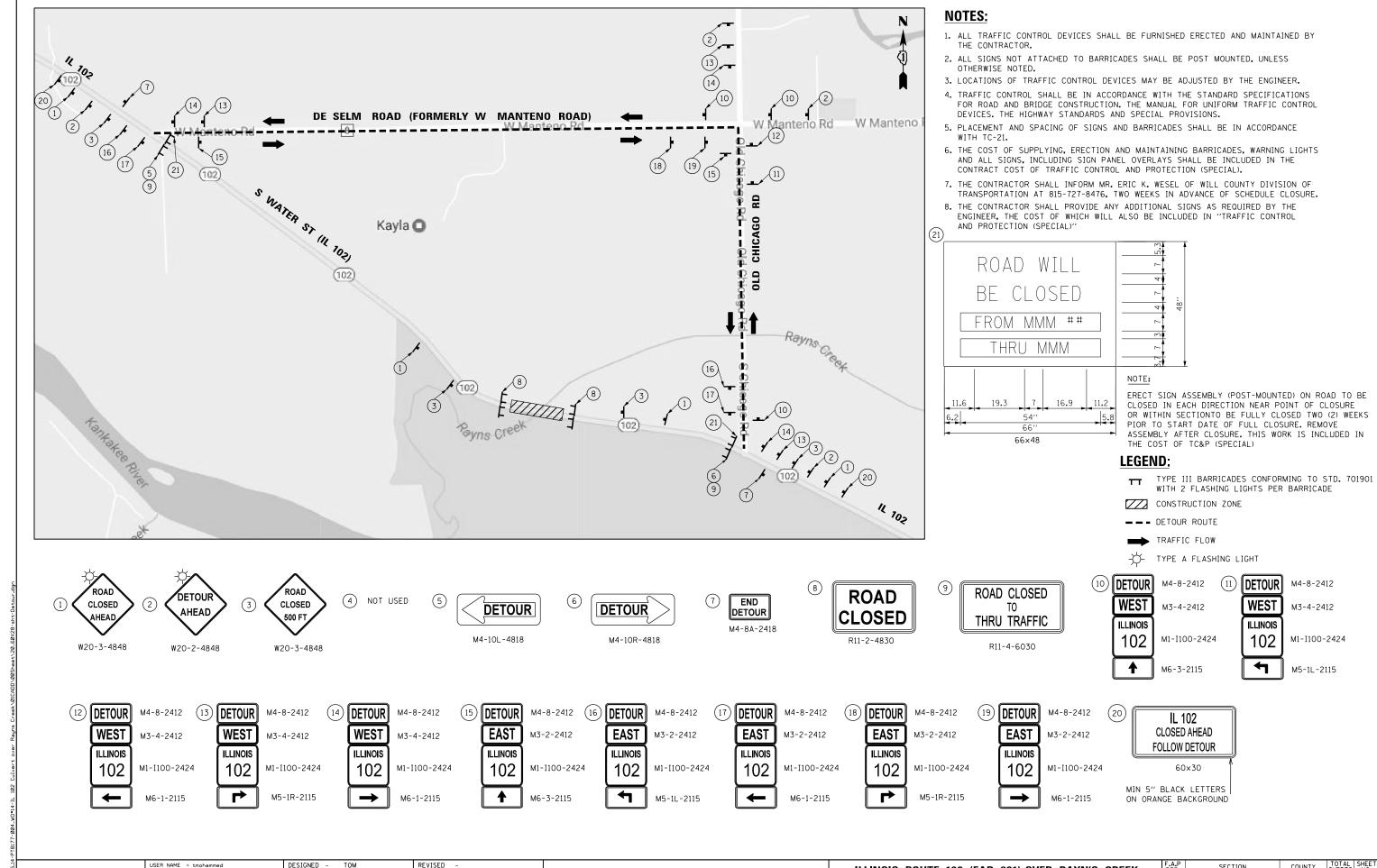
PLOT DATE = 5/25/2018 DATE - 5/25/18 REVISED

CONTRACT NO. 60V28









STATE OF ILLINOIS

DESIGNED -USER NAME = tmohammed DRAWN LOT SCALE = 2.0000 '/ in. CHECKED PLOT DATE = 5/31/2018 DATE

AWM

05/24/2018

REVISED

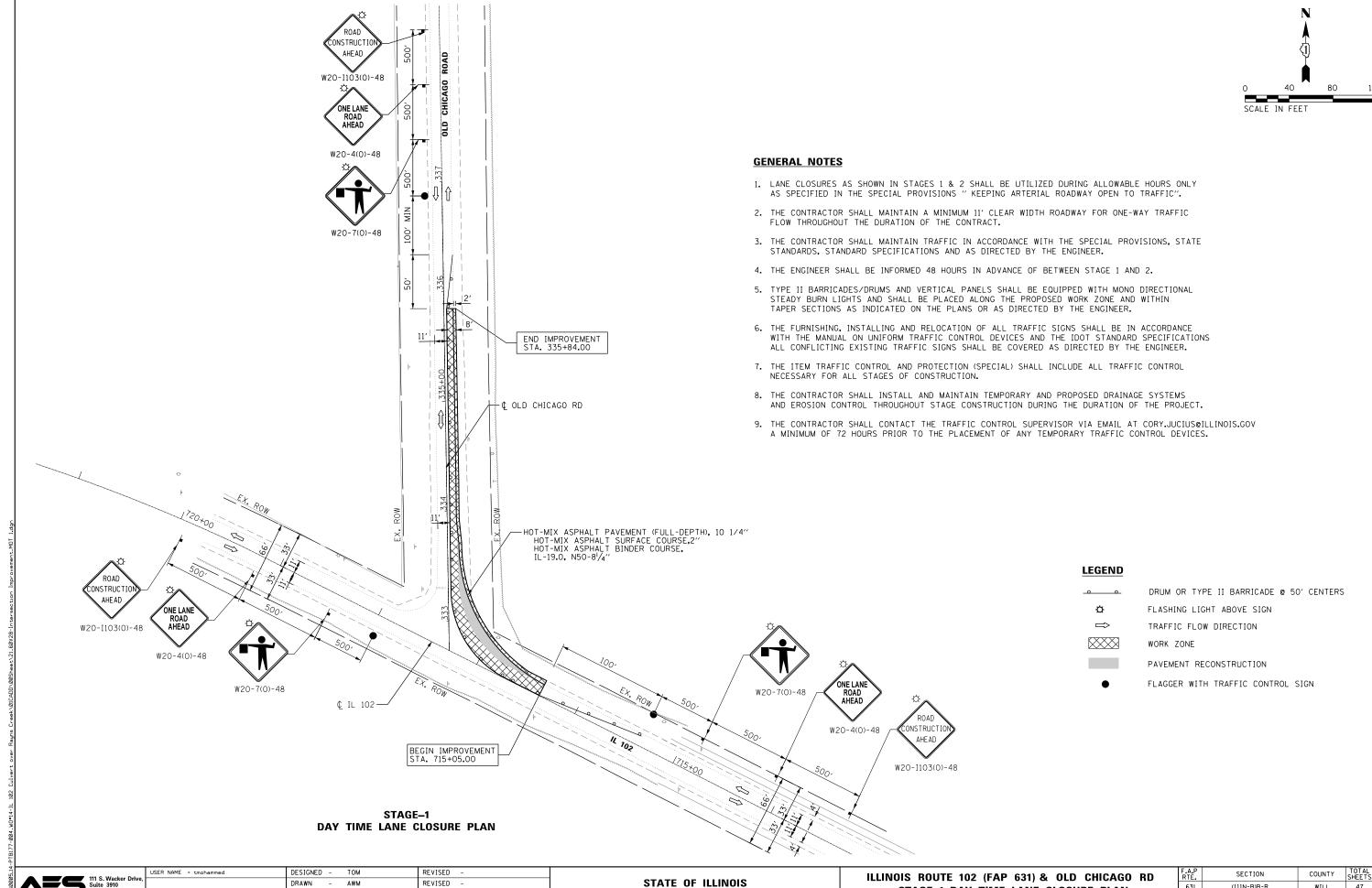
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**DEPARTMENT OF TRANSPORTATION** 

ILLINOIS ROUTE 102 (FAP 631) OVER RAYN'S CREEK **DETOUR USING COUNTY & STATE ROUTES** SHEETS STA.

SECTION COUNTY 47 20 631 (111N-B)B-R WILL CONTRACT NO. 60V28

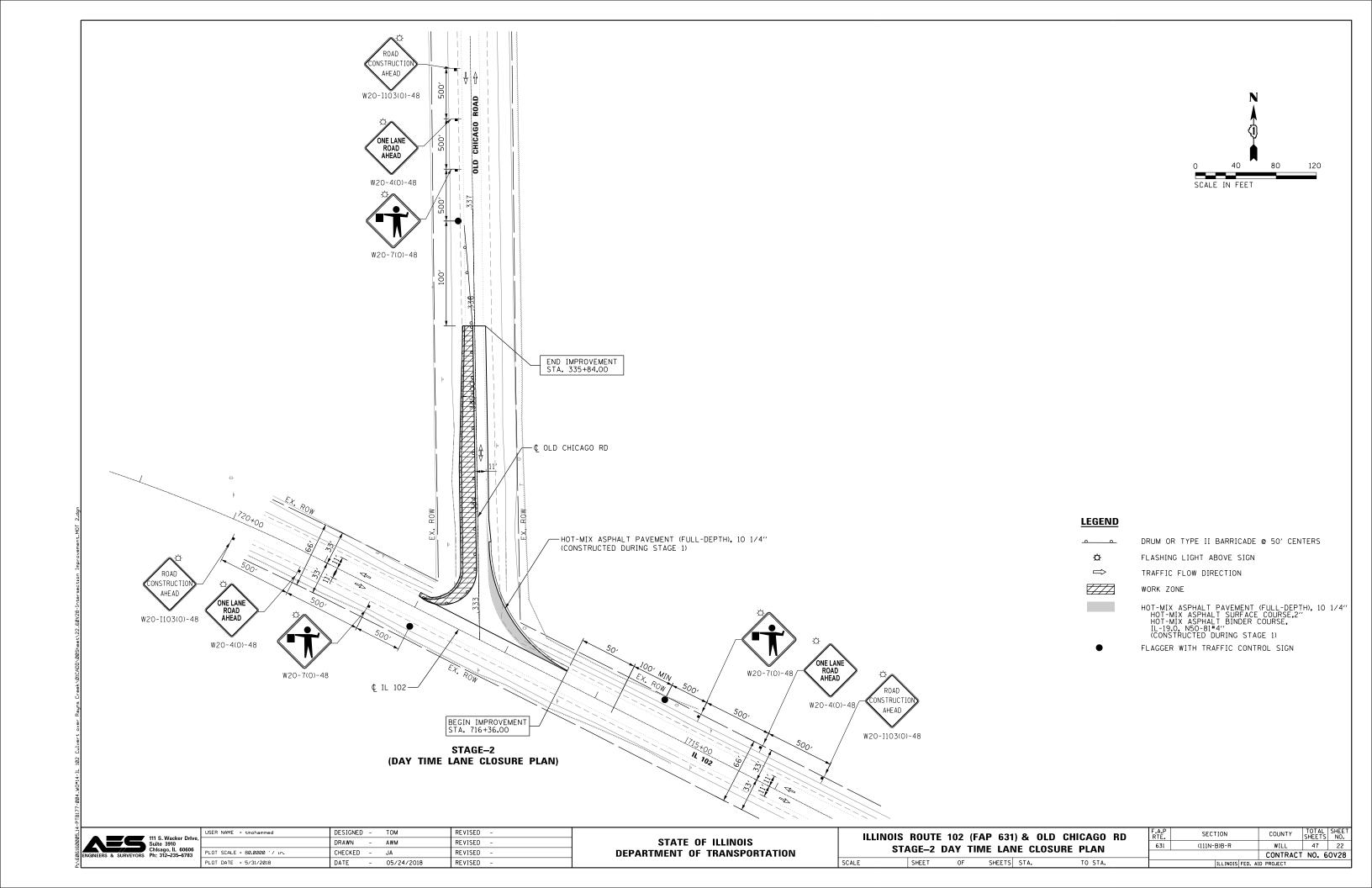


LOT SCALE = 80.0000 '/ in. CHECKED -REVISED PLOT DATE = 5/31/2018 DATE REVISED 05/24/2018

**DEPARTMENT OF TRANSPORTATION** 

ILLINOI	S ROUTE	102 (F	AP 631	) & OL	D CHICAGO RD
STAGE-1 DAY TIME LANE CLOSURE PLAN					
SCALE	SHEET	OF	SHEETS	STA.	TO STA.

ILLINOIS FED. AID PROJECT				
		CONTRACT	NO. 6	0V28
631	(111N-B)B-R	WILL	47	21
RTE.	SECTION	COUNTY	SHEETS	NO.



#### **EROSION AND SEDIMENT CONTROL NOTES**

- 1. EROSION AND SEDIMENT CONTROLS (ESC) SHALL BE INSTALLED TO MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION AND MINIMIZE THE DISTURBANCE OF EXPOSED SOIL, ESPECIALLY ON STEEP SLOPES OR NEAR SURFACE WATERS.
- 2. ALL ESC MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES -MAINTENANCE GUIDE. THE FIELD GUIDE CAN BE FOUND HERE: HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL
- 3. PRIOR TO SOIL DISTURBANCE STRUCTURAL PRACTICES, INCLUDING PERIMETER EROSION BARRIER AND TEMPORARY DITCH CHECKS, SHALL BE INSTALLED.
- 4. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
- 5. SEDIMENT COLLECTED BY THE CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS, IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS AND IEPA GUIDELINES, BUT IN NO CASE LESS THAN WHEN THE HEIGHT OF SEDIMENT EXCEEDS ONE-HALF THE HEIGHT OF THE CONTROL DEVICE.
- 6. ON AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER SEVEN (7) DAYS, TEMPORARY STABILIZATION WILL BE REQUIRED. TEMPORARY STABILIZATION INCLUDES EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING.
- 7. TEMPORARY STOCKPILE(S) (INCLUDING TOPSOIL) LOCATIONS SHALL BE APPROVED BY THE ENGINEER. TEMPORARY STOCKPILE(S) SHALL BE SURROUNDED BY PERIMETER EROSION BARRIER AND SHALL REQUIRE TEMPORARY STABILIZATION.
- 8. CONTRACTOR SHALL STORE MATERIALS AND SUPPLIES, INCLUDING FUELS AND CHEMICALS, IN IN A MANNER AND LOCATION TO PREVENT SPILLS.
- 9. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO PREVENT RELEASE OF CONCRETE RESIDUALS FROM BOTH WASHOUT LOCATIONS AND OTHER ACTIVITIES WHICH PRODUCE CONCRETE PARTICLES, INCLUDING GRINDING, SAW CUTTING, AND DEMOLITION.
- 10. A MINIMUM OF SEVEN (7) DAYS PRIOR TO POURING CONCRETE, CONTRACTOR SHALL PROPOSE CONCRETE WASHOUT LOCATIONS TO THE ENGINEER FOR APPROVAL.
- 11. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED EVERY SEVEN (7) DAYS AND WITHIN TWENTY -FOUR (24) HOURS OF THE END OF A STORM OR RAINFALL EVENT THAT IS 0.5 INCH OR GREATER OR EQUIVALENT SNOWFALL.
- 12. IN THE EVENT OF A VIOLATION OF THE PROVISIONS OF THIS EROSION CONTROL PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER SHALL NOTIFY THE APPROPRIATE IEPA FIELD OPERATIONS SECTION OFFICE BY E-MAIL AT: XXX@IEPA.GOV, TELEPHONE, OR FAX WITHIN TWENTY -FOUR (24) HOURS OF THE INCIDENT. THE RESIDENT ENGINEER SHALL THEN COMPLETE AND SUBMIT AN "INCIDENCE OF NON-COMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION WITHIN FIVE (5) DAYS OF THE INCIDENT. THE RESIDENT ENGINEER SHALL USE FORMS PROVIDED BY THE IEPA AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NON-COMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI.G OF THE PERMIT

THE INCIDENT OF NON-COMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL ATTN: COMPLIANCE ASSURANCE SECTION 1021 NORTH GRAND EAST POST OFFICE BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276

#### IN-STREAM /WETLAND WORK NOTES

- 1. THIS PROJECT REQUIRES A U.S ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT MUST BE FOLLOWED. THE COST OF ALL MATERIAL AND LABOR NECESSARY TO COMPLY WITH THE 404 PERMIT 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.
- 2. IN ACCORDANCE WITH THE 404 PERMIT, THE PROJECT WILL REQUIRE IN STREAM WORK PLAN WITHIN RAYN'S CREEK AND INCLUDING WORK WITHIN THE WETLANDS. THE CONTRACTOR SHALL PROVIDE THIS PLAN TO THE DEPARTMENT FOR APPROVAL PRIOR TO STARTING CONSTRUCTION. GUIDELINES ON ACCEPTABLE IN-STREAM WORK PLAN TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIAL AND LABOR NECESSARY FOR THE PREPARATION AND IMPLEMENTATION OF THE IN-STREAM WORK PLAN (INCLUDING WORK WITHIN THE WETLANDS) 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.
- 3. ANY COFFERDAMS OR DIVERSIONS SHALL BE DESIGNED TO CONVEY THE 2 YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING. MATERIAL AND DESIGN SHALL BE PROVIDED TO THE USACE PRIOR TO STARTING CONSTRUCTION.
- 4. ALL TEMPORARY CONSTRUCTION ACTIVITIES WITHIN AND TRIBUTARY TO RAYN'S CREEK MUST ADHERE TO THE REQUIREMENTS OF THE REGIONAL PERMIT 7.

USER NAME = untitled	DESIGNED	-	JNH	REVISED -
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PLOT DATE = 5/25/2018	DATE	-	5/25/18	REVISED -

**DEPARTMENT OF TRANSPORTATION** 

(111N-B)B-R

**EROSION AND SEDIMENT CONTROL PLAN** 

SCALE: 1"=40' SHEET 1 OF 1 SHEETS STA. 734+00

WILL

CONTRACT NO. 60V28

Wight

PLOT SCALE = 80.1311 ' / 10

PLOT DATE = 5/25/2018

DRAWN

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- 5/25/18

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111 S. Wacker Drive, Suite 3910 Chleago, IL 60606 Ph: 312-235-6783

USER NAME = awmohammed	DESIGNED	-	ТОМ	REVISED -
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PLOT DATE = 8/21/2018	DATE	-	08/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

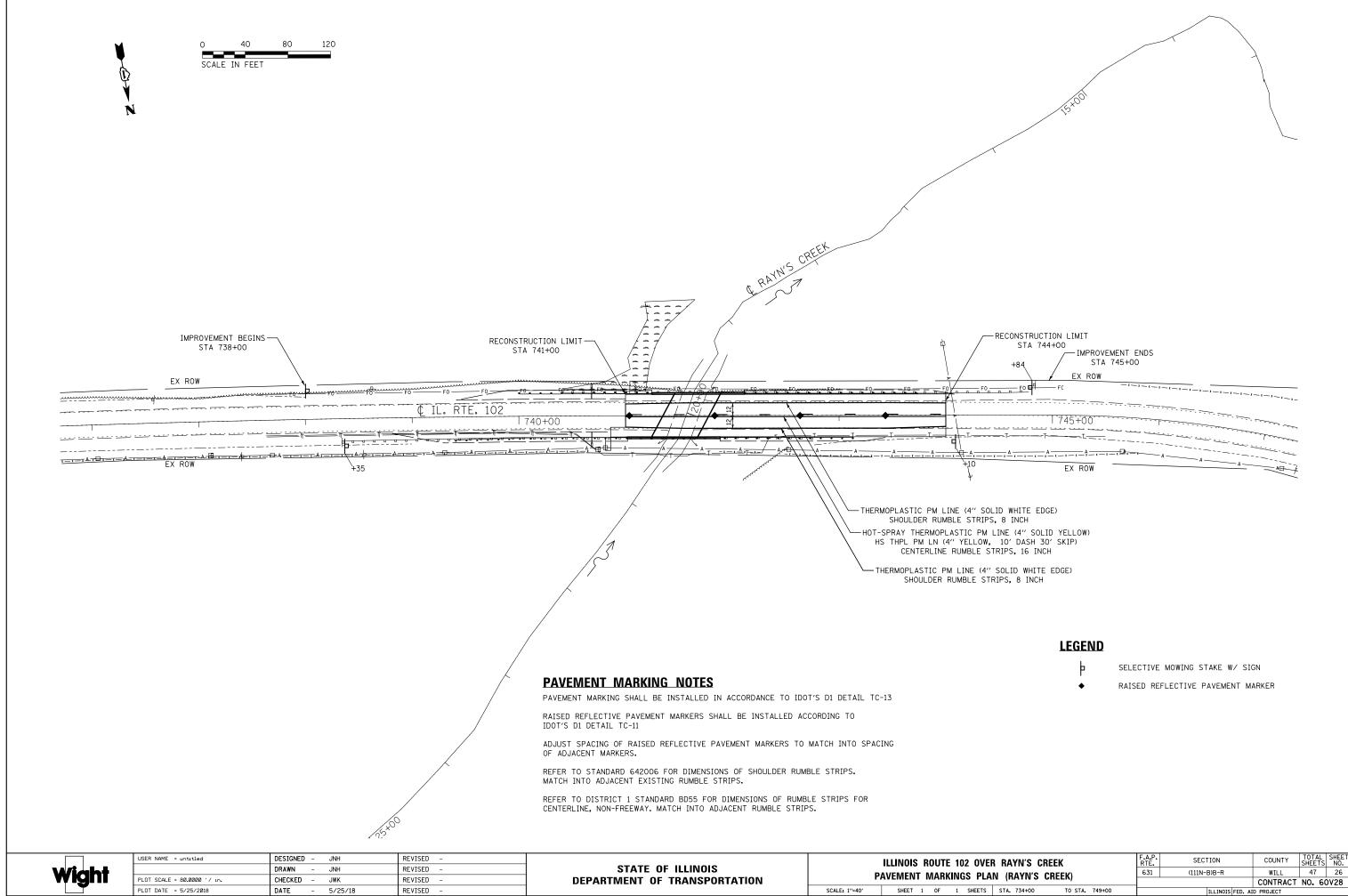
	ILLINOIS	ROUTE	102	(FAP	631)	&	OLD	CHICAGO	RD	
		ER	OSIO	N CO	NTRO	)L P	LAN			
SCAL	.E	SHEET	OF	SH	EETS :	STA.		TO STA.		

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

631 (111N-B)B-R WILL 47 25

CONTRACT NO. 60V28

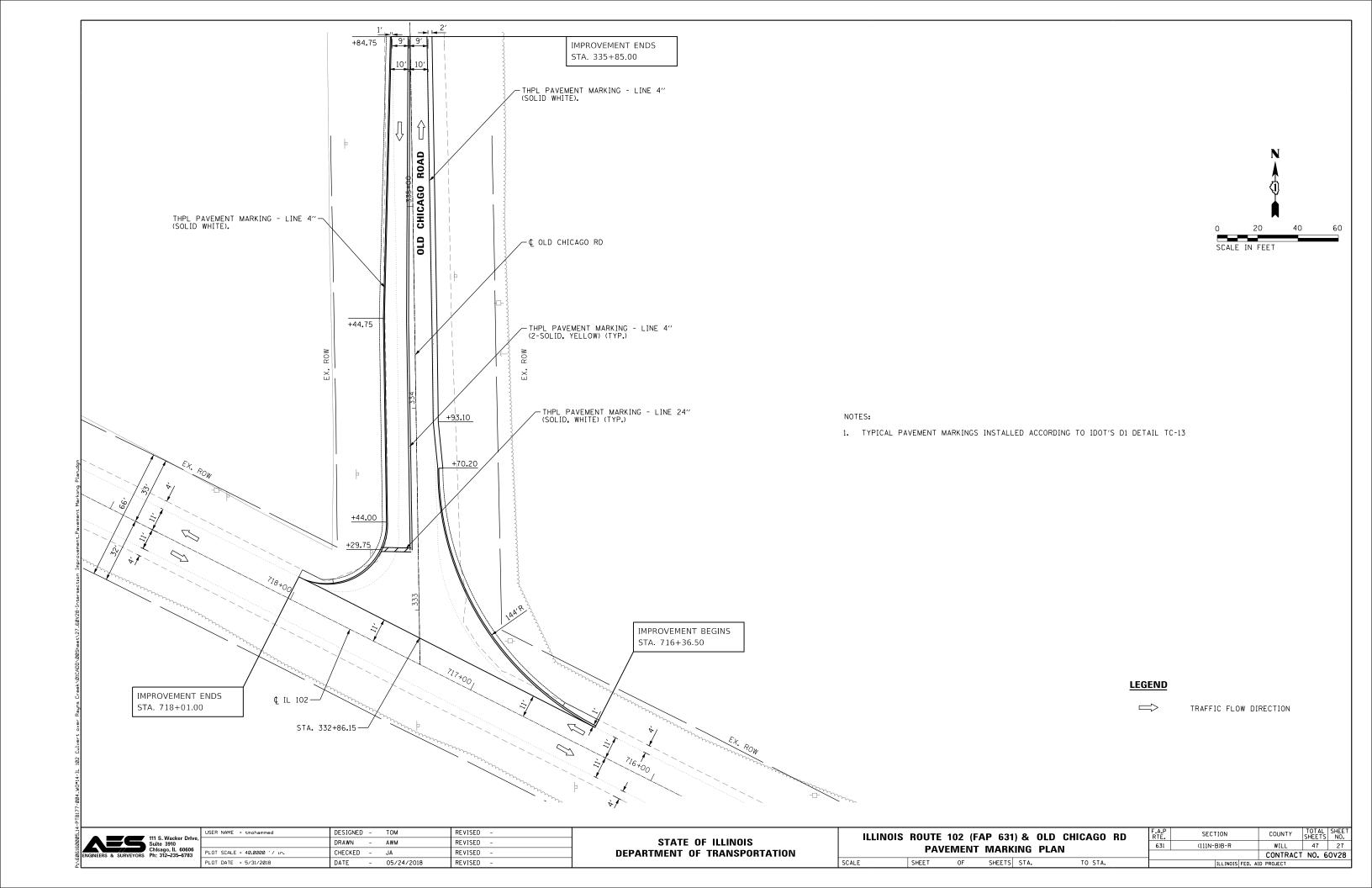
| ILLINOIS | FED. AID | PROJECT



PLOT DATE = 5/25/2018

DATE - 5/25/18

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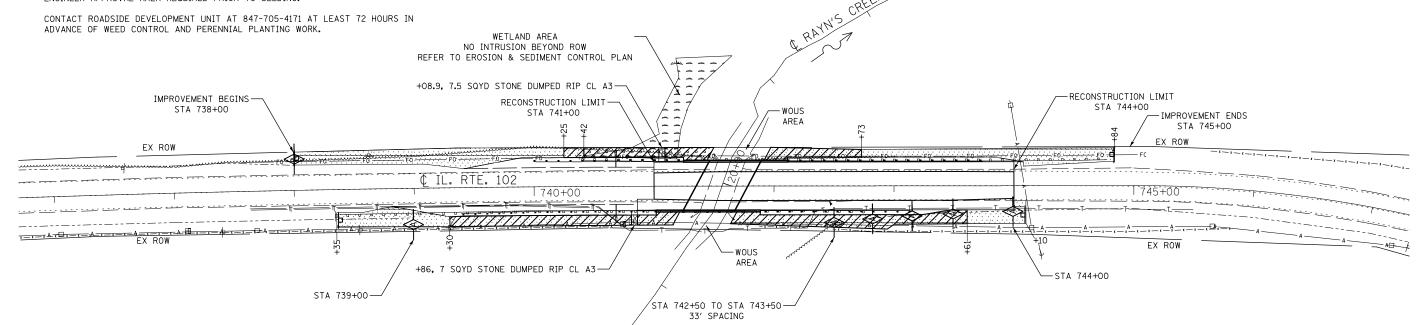




#### **LANDSCAPE NOTES**

ANY TURF AREAS OUTSIDE THE CONSTRUCTION SEEDING LIMITS WHICH ARE DISTURBED SHALL BE REPAIRED, RESEEDED, AND COVERED WITH EROSION CONTROL BLANKET OR SODDED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

SEEDING LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE, MATCH SEED AREAS INTO PROPOSED RIPRAP NEAR PROPOSED CULVERT. FIELD VERFICATION AND ENGINEER APPROVAL AREA REQUIRED PRIOR TO SEEDING.



K0013000	PERENNIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" DEEP PLUG						
	Common Name	Botanical Name	QTY (Plugs)	Unit			
	Blue Joint Grass	Calamogrostis canadensis	100	1			
	TussockSedge	Carex stricta	100	1			
	Swamp Blazing Star	Liatris spicata	100	1			
	Mountain Mint	Pycnanthemum virginianum	100	1			
	Heath Aster	Symphyotrichum ericoides	100	1			
		Subtotal	500	5.00			

### **LEGEND**

SEEDING CLASS 4 W/ EROSION CONTROL BLANKET



SEEDING CLASS 4 W/ HEAVY DUTY EROSION CONTROL BLANKET



SEEDING CLASS 4B W/ HEAVY DUTY EROSION CONTROL BLANKET



AGGREGATE DITCH CHECK

#### **PERENNIAL NOTES**

PERENNIAL PLANTS SHALL BE LAID OUT AFTER SEEDING AND BLANKET HAVE BEEN PLACED. CONTRACTOR SHALL RANDOMLY INTERPLANT ALL PLANTS.



USER NAME = untitled	DESIGNED	-	JNH	REVISED -
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PLOT DATE = 5/25/2018	DATE	-	5/25/18	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

ILLINOIS	ROUTE	102	OVER	RAYN'S	CREEK	
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-				_					
			ILLINOIS	FED.	ΑII	PROJECT			
						CONTRACT	NO.	60	)V2
	631	(111N-E	(111N-B)B-R			WILL	47		2
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SCALE: 1"=40" SHEET 1 OF 1 SHEETS STA. 734+00 TO STA. 749+00

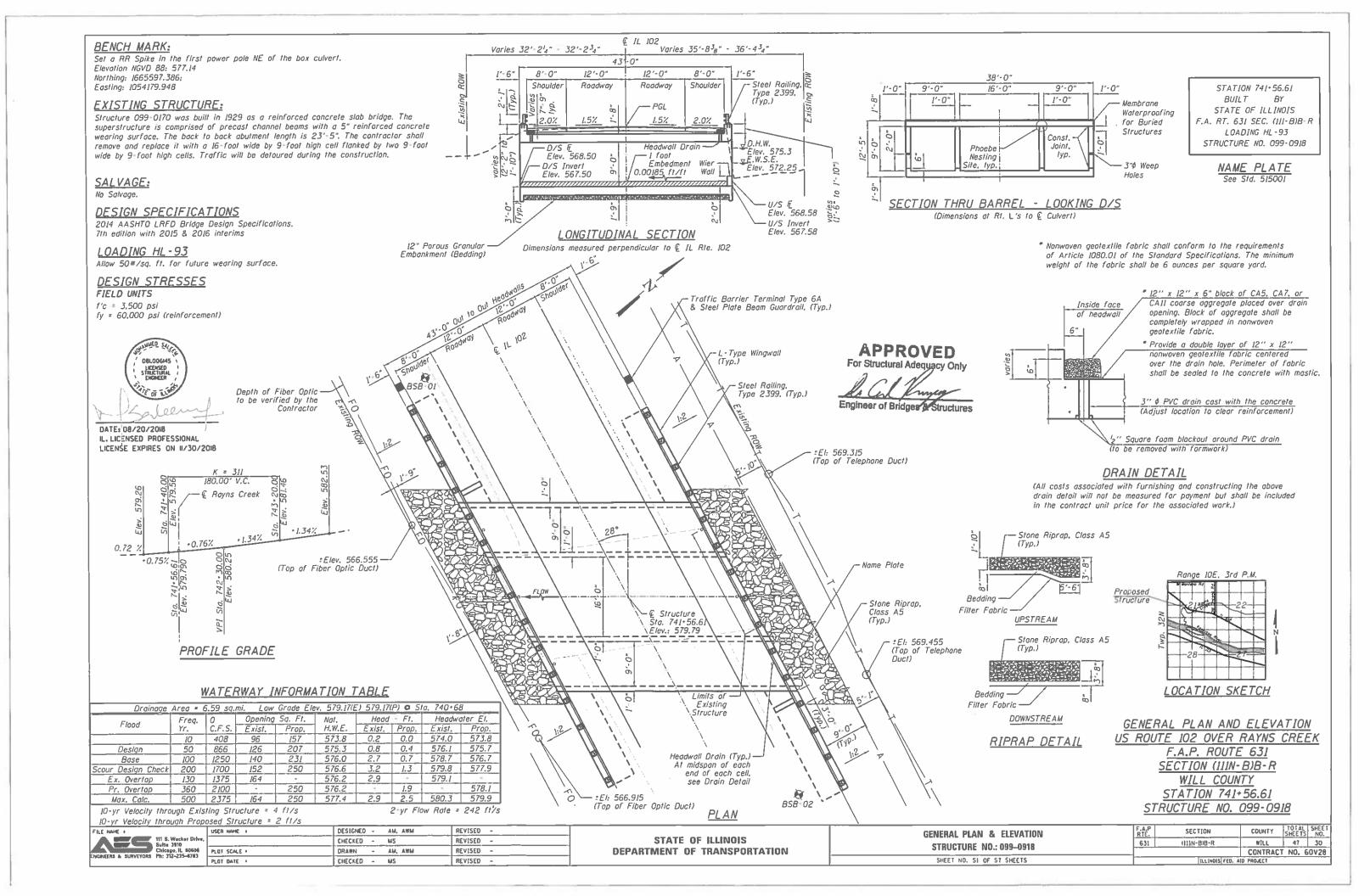
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111 S. Wacker Drive Suite 3910 Chicago, IL 60606 Ph: 312–235–6783

	USER NAME = awmohammed	DESIGNED	-	ТОМ	REVISED -	_
,		DRAWN	-	AWM	REVISED -	
	PLOT SCALE = 40.0000 '/ in.	CHECKED	-	JA	REVISED -	
	PLOT DATE = 8/21/2018	DATE	-	08/14/2018	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	ILLINOIS	ROUTE	102 (F	AP 631	) OVER	RAYN'S CREEK	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								(111N-B)B-R	WILL	47	29
ļ									CONTRACT	NO. 6	0V28
	SCALE	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



#### INDEX OF SHEETS

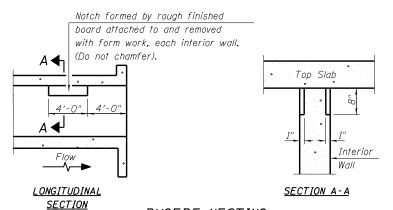
- General Plan and Elevation
- General Notes, Index of Sheets and Total Bill of Material 2.
- 3. Culvert Details-I
- Culvert Details-II
- Steel Railing Type 2399 Details
- Soil Boring Logs I
- 7. Soil Boring Logs II

#### GENERAL NOTES

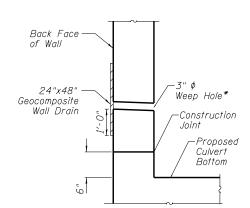
- 1. Precast option is not allowed.
- 2. Reinforcement bars designated (E) shall be epoxy coated.
- 3. Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- 4. Concrete Sealer shall be applied to the designated areas of the wing walls.
- 5. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 6. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
- 7. It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of concrete box culverts.
- 8. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

#### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	76
Stone Rip Rap , Class A5	Sq Yd	99
Filter Fabric	Sq Yd	99
Removal of Existing Structures	Each	1
Bridge Rail Removal	Foot	45
Structure Excavation	Cu Yd	934
Removal and Disposal of Unsuitable Material for Structures	Cu Yd	76
Protective Coat	Sq Yd	43
Reinforcement Bars, Epoxy Coated	Pound	116630
Steel Railing, Type 2399	Foot	179
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	425
Concrete Sealer	Sq Ft	572
Geocomposite Wall Drain	Sq Yd	13
Membrane Waterproofing for Buried Structures	Sq Yd	235
Granular Backfill for Structures	Cu Yd	90

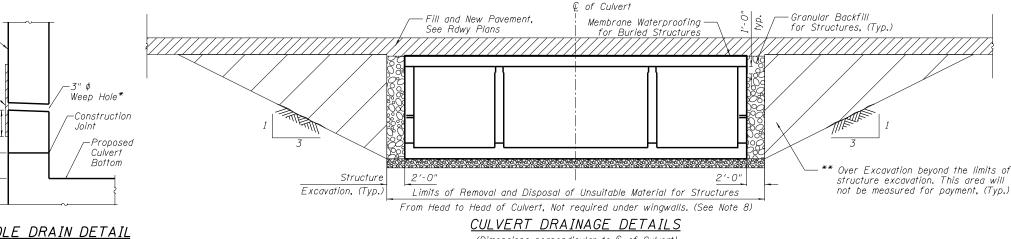


PHOEBE NESTING SITE DETAILS (Downstream End Only)



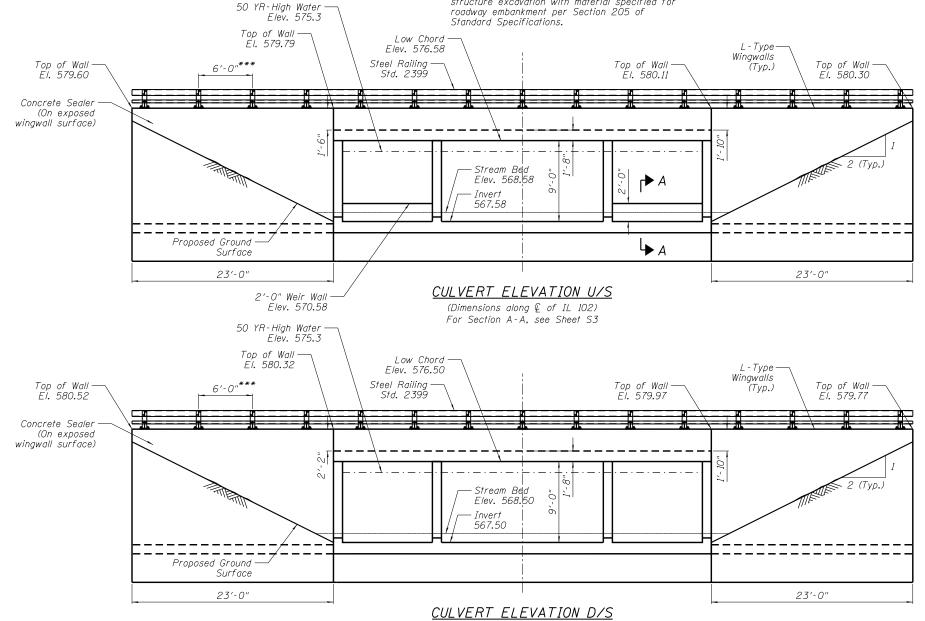
#### WEEP HOLE DRAIN DETAIL

\* Cost included in Concrete Box Culvert



(Dimensions perpendicular to @ of Culvert)

\*\* Backfill the over excavation beyond the limits of structure excavation with material specified for roadway embankment per Section 205 of



## (Dimensions along © of IL 102)

\*\*\* See Sheet S5 for Steel Railing Type 2399 Details.

The post location shall be adjusted by not more than ±3" to avoid headwall reinforcement. The 6'-0" distance between two posts is shown only as a guidance, to obtain a symmetrical layout of the posts.



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

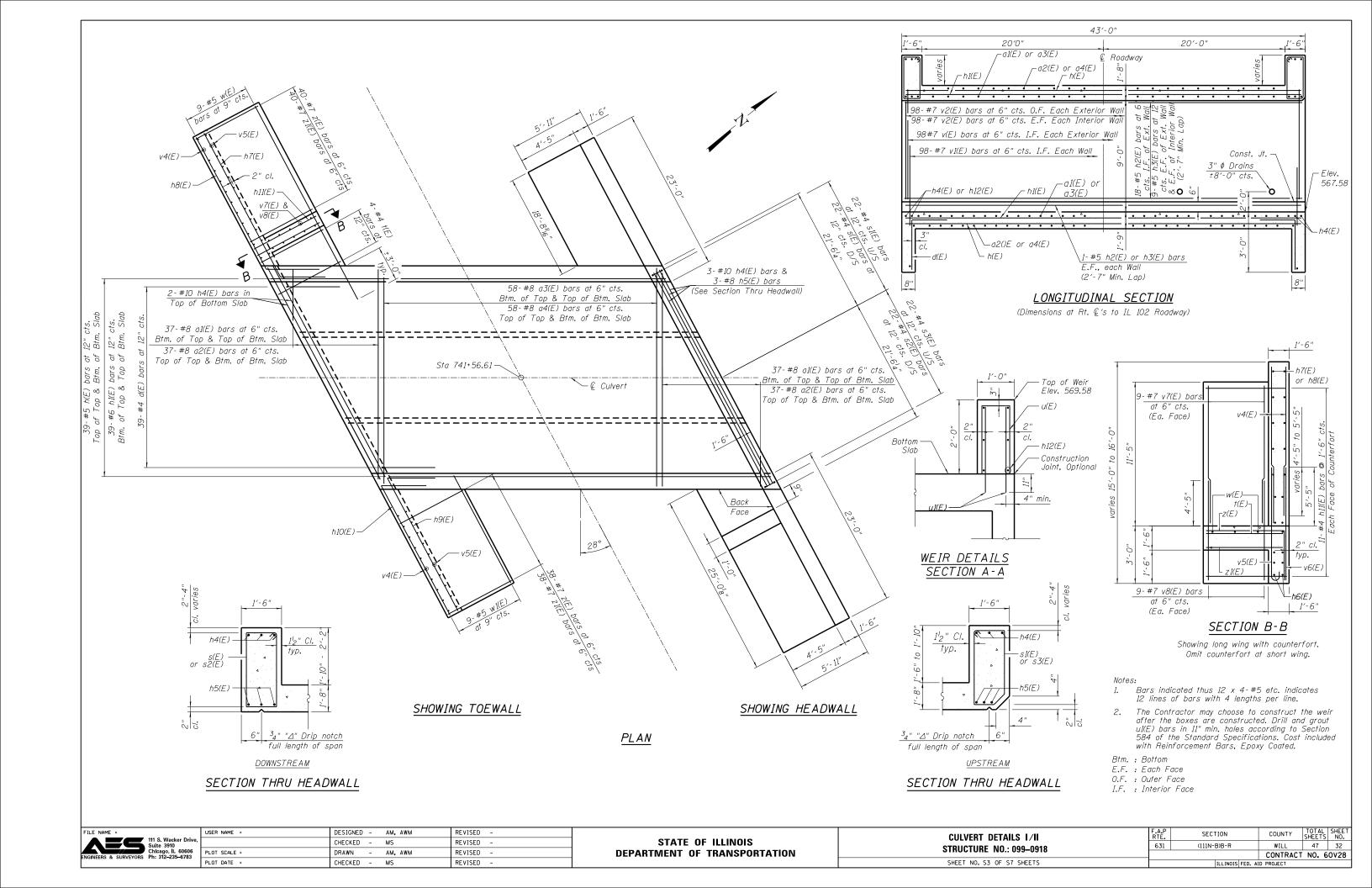
GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIALS	F.A.P RTE.	SECTION
STRUCTURE NO.: 099-0918	631	(111N-B)B-R
0111001011E No.: 033-0310		
CHEET NO CO OF CT CHEETS		

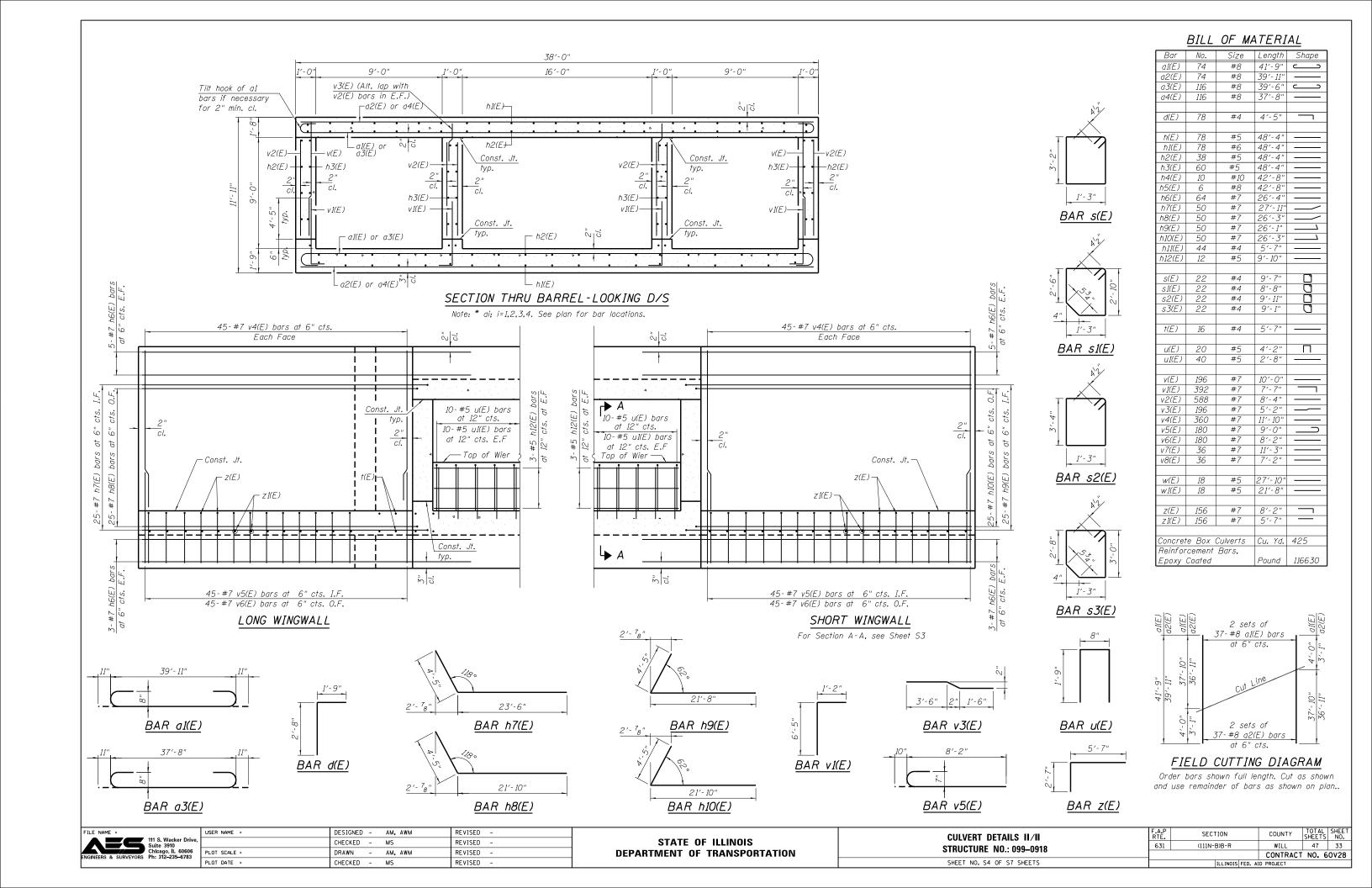
COUNTY

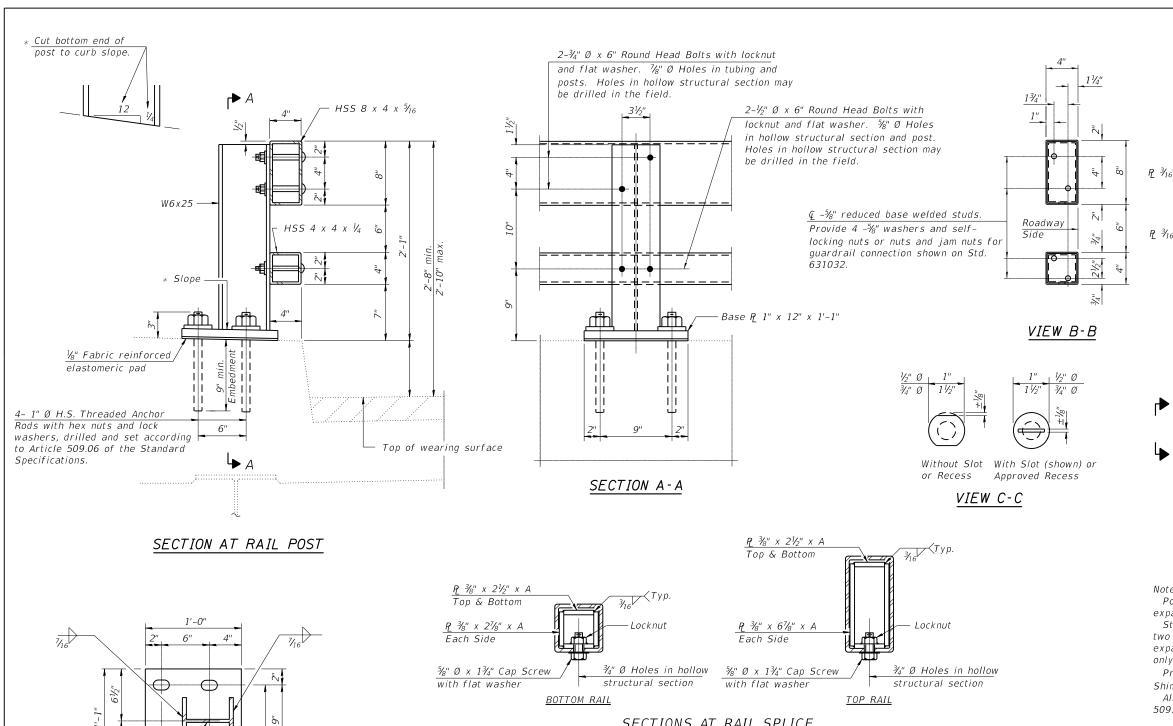
WILL

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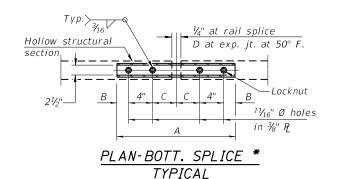
CONTRACT NO. 60V28







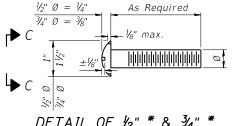
#### SECTIONS AT RAIL SPLICE



Locknut %" Ø x 1¾" Cap Screw 1⅓" x E Slotted with flat washer & ¾" Ø Holes in hollow structural section XS pipe spacer, 1/2" long.

RAIL SPLICE CONNECTION AT EXPANSION JT.

# 1'-21/2" € 1" Ø holes ¾" Ø P2 3/16" x 31/2" x 71/2" drain hole P2 3/16" x 31/2" x 31/2" drain hole END OF RAIL DETAILS



DETAIL OF 1/2" \* & 3/4" \* ROUND HEAD BOLTS

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

Provide one  $\frac{1}{8}$ " and two  $\frac{1}{16}$ " steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

#### SPLICE DIMENSIONS

T	D	Α	В	С	Ε
≤ 4"	21/2"	1'-8"	2"	4"	21/2"
$> 4'' \le 6\frac{1}{2}''$	33/4"	2'-0"	21/2"	5½"	31/2"
$> 6^{1/2}" \le 9"$	5"	2'-4"	31/2"	6½"	9"
> 9" ≤ 13"	7"	2'-10"	41/2"	81/2"	11"
Rail Splice	V <sub>4</sub> ''	1'-8"	2"	4"	_

T = Total movement at expansion joint as shown on the design plans.

#### BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	179

#### R-31

PL 1" x 12" x 13"

8-11-2017

BASE PLATE DETAIL

11/4" x 2" Slotted Holes

 $\oplus$ 

(6'-3" Maximum Post Spacing)

FILE NAME =	USER NAME =	DESIGNED - AM, AWM	REVISED -
111 S. Wacker Drive, Suite 3910		CHECKED - MS	REVISED -
Chicago, IL 60606 ENGINEERS & SURVEYORS Ph: 312-235-6783	PLOT SCALE =	DRAWN - AM, AWM	REVISED -
ENGINEERS & SORVETORS TH. S12-253-0705	PLOT DATE =	CHECKED - MS	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

			/PE 2399 )99–0918
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F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
631	(111N-B)B-R		WILL	47	34
			CONTRACT	NO. 6	0V28
	ILL INOIS F	FED. AII	PROJECT		

## Wang Engineering

Client

Project

Location

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

#### **BORING LOG BSB-01**

WEI Job No.: 255-24-02

Stantec IL Route 102 over Ryans Creek Wesley Township, Will County, IL Datum: NAVD 88 Elevation: 579.35 ft North: 1665593.51 ft East: 1054130.76 ft Station: NA Offset: NA

Page 1 of 2

Profile	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	15-inch thick GRAVELLY SAND moistSHOULDER Very soft, brown and black CLAY LOAM, sand lenses, trace	-/-	1	4 2 2	<0.25 P	18				-	11	`50 <u>/</u> 5"	>4.5 P	17
	Medium dense, brown GRAVELLY SANDY LOAM to LOAM; moist	5	2	8 12 7	NP	11		SI	ery stiff to hard, greenish-gray ILTY LOAM; horizontally edded shale WEATHERED SHAL	30_	12	42 -50 <u>/</u> 5"	2.95 S	15
	<sup>571.3</sup> Very stiff to hard, greenish-gray	-	3	8 17 8	NP				BEDROCK					
	SILTY CLAY LOAM to SILTY LOAM	10	4	4 7 9	4.25 P	13				35_	13	100/5"	3.50 P	14
		-	5	33 50 <u>/</u> 5"	>4.5 P	10				-				
		15	6	16 31 28	2.38 S	14				40	14	63 37 <u>/</u> 1"	4.67 S	9
			7	25 28 43	7.05 S	14					15	100/5"	>4.5	11
		20	8	27 31 50	4.10 S >4.5	11				45		100/5"	Р	
NG.GDT 3/25/15			10	43 50 <u>/</u> 5" 37	P >4.5	14					16	100	>4.5	16
WANGENGINC 2552402.GPJ WANGENG.GDT	GENERA	25	FS	50/4"	Р				WATER LE	50_ <b>SVEL F</b>			Р	
402.C	Begin Drilling 03-12-2015 Complete Drilling 03-12-2015								While Drilling \(\frac{\nabla}{\pi}\)	. • L		50 ft		
7295. Dri	Drilling Contractor Wang Testing Services Drill Rig CME-55							At Completion of Drilling			NA			
S Dri	Driller R&J Logger A. Tomaras Checked by C. Marin								<b>IA</b>		₹.₹			
Dri	Drilling Method 4.0" OD CFA to 10'; Mud rotary to bedrock;							Depth to Water	NΑ					
VANC	backfilled upon completion	. ye e e errende t							The stratification lines represent the between soil types; the actual trans	ne approxin	nate b	oundar	у	

wangeng@wangeng.com

Telephone: 630 953-9928

1145 N Main Street

Lombard, IL 60148

Fax: 630 953-9938

**BORING LOG BSB-01** 

Location

WEI Job No.: 255-24-02

Wesley Township, Will County, IL

Stantec Client IL Route 102 over Ryans Creek Project

North: 1665593.51 ft East: 1054130.76 ft Station: NA

Datum: NAVD 88

Elevation: 579.35 ft Offset: NA

Page 2 of 2

olijo.	Floile	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		-													
		- -													
		- -	$\overline{}$	17		>4.5	13								
		 			100/41	Р	.0								
		55 <u> </u>													
		-													
		-													
5%	7/)	520.8WEATHERED DOLOSTONE		18											
		BEDROCK HARD DRILLING60_			50/0"										
2	ZQ.	518.8Possible Cobbles													
		Boring terminated at 60.50 ft –													
		-													
		-													
		_													
		65													
ı		_													
		-													
ı		=													
ı		_													
ı		70													
		- -													
3/25/15		-													
JT 3/26		- -													
NG.GE		-													
WANGENGINC 2552402.GPJ WANGENG.GDT		- 75_													
GPJ )		GENERAL N	OTI	ES					L	WATER	LEVEL	)AT	Ά		
52402			plete		-		3-12			While Drilling	₹		0 ft		
IC 25	Drilling Contractor Wang Testing Services Drill Rig CME-55  Driller R & J Logger A Tomaras Checked by C. Marin								At Completion of Drilling	¥	<b>N</b>	IA			
ENGIN									arın	Time After Drilling  Depth to Water	NA NA				
VANG	Drilling Method 4.0" OD CFA to 10'; Mud rotary to bedrock; backfilled upon completion								The stratification lines repres	ent the approxin	nate b	oundary	,	—	
<b>&gt;</b>	backfilled upon completion									between soil types; the actua	ı ıransıtıon may	ue gra	idual.		

<u>SOIL BORING BSB-01</u> STA 742+15, 15.36 LT

FILE NAME =		
	111 S. Wacker Drive, Suite 3910	
ENGINEERS & SURVEYORS	Chicago, IL 60606	
LINGUILLING & SUNVETONS	· 233-0703	ī

USER NAME =	DESIGNED -	-	AM, AWM	REVISED -
	CHECKED -	-	MS	REVISED -
PLOT SCALE =	DRAWN -	-	AM, AWM	REVISED -
PLOT DATE =	CHECKED -	-	MS	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SOIL BORINGS 1/II	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO.: 099-0918	631	(111N-B)B-R	WILL	47	35
31110010HL 140 033-0310			CONTRACT	NO. 6	50V28
SHEET NO. S6 OF S7 SHEETS		ILLINOIS FED. A	D PROJECT		

#### Page 1 of 2 Wang Engineering **BORING LOG BSB-02** Datum: NAVD 88 Elevation: 578.56 ft North: 1665573.47 ft WEI Job No.: 255-24-02 wangeng@wangeng.com 1145 N Main Street Stantec Client East: 1054065.49 ft Lombard, IL 60148 Project IL Route 102 over Ryans Creek Station: NA Telephone: 630 953-9928 Fax: 630 953-9938 Wesley Township, Will County, IL Offset: NA Location

		l e	ا ر	σ		<u> </u>	Г				e Se	ı.	S		(6)
Profile	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
Zia	15-inch thick brown I OAM little		ιχ	8		_ <u>o</u>			WEATHERED SHA	ΔI E	Sa	Š	S S		_ <u>o</u>
	gravel; moist	1_							BEDRO						
	SHOULDER- Loose, brown and black SANDY	_	1	5 4	NP	11				-	$\times$	11	39 50/4"	>4.5 P	13
	LOAM, trace gravel, clay lenses;	1/ \		4						-			4		
	moist FILL-	. 1								-		12		>4.5	9
		<b>∃</b>  X	2	2 2 3	NP	16				_		' -	50/5"	Р	Ŭ
		5/_		_3						30					
										_					
		1X	3	2 2 3	NP	21				_					
				3						-					
- X I - I	569.7	4/		10						_	$\times$	13	100/4"	>4.5	12
, 0,	Dense, brown and gray SANDY GRAVEL; wet	10	4	10 22 18	NP	14				35			100/4	Р	
	568.1 Hard, greenish-gray SILTY CLAN			10_						-					
	LOAM to SILTY LOAM		1_	20						_					
			5	20 29 40	>4.5 P	9				_					
		-								_					
			6	10 <u>0</u> /5"	>4.5 P	7				_	>	14	50/4"	>4.5 P	9
		15			'					40				·	
		<u> </u>								-					
		-\/	7	13 17	7.79	13				-					
		7/\	l	34	S					-					
		1								-		145		-15	10
		4	8	12 16	10.25	12				_		15	10 <u>0</u> /5"	>4.5 P	12
		20/		26	S					45 <u> </u>					
		1								_					
/15		1X	9	29 43	>4.5 P	9				-					
T 3/25/	555.6		1	50/5"						_					
NG.GD	Very stiff to hard, greenish-gray SILTY LOAM; horizontally		10		7.54	11				-	$\times$	16	~E0/E"	3.50	12
ANGEI	bedded SHALE	25		22 50 <u>/</u> 5"	7.54 S	''				50			50/5"	Р	
MANGENGINC 2552402.GPJ WANGENG.GDT	CENEDA		  -	<u> </u>			<u> </u>	<u> </u>	WATER		П П	∐ ΔT	Δ		
7.707 Be	GENERAL NOTES  Begin Drilling 03-13-2015 Complete Drilling 03-13-2015							15	While Drilling	LLVL V			O ft		
7552 Dri	Drilling Contractor Wang Testing Services Drill Rig CME-55								At Completion of Drilling	<u></u>			IA		
S Dri	Driller R & J Logger A. Tomaras Checked by C. Marin							Time After Drilling	NA						
Dri	Drilling Method 4.0" OD CFA to 10'; Mud rotary to bedrock;							Depth to Water	NA						
WA.	backfilled upon completion								The stratification lines represer between soil types; the actual to	t the appr ansition r	roxima nay be	ate be e gra	oundarı dual.	/	

W	ang gineering	BORING LOG BSB-02	Page 2 of 2
wangeng@wanger	_	WEI Job No.: 255-24-02	Datum: NAVD 88 Elevation: 578.56 ft
1145 N Main Stree	•	Stantec	North: 1665573.47 ft
Lombard, IL 60148 Telephone: 630 95 Fax: 630 953-9938	53-9928 Project	IL Route 102 over Ryans Creek Wesley Township, Will County, IL	East: 1054065.49 ft Station: NA Offset: NA

Profile	SOIL AND ROCK DESCRIPTION	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	- - - - - - - - - - - - - - - - - - -		17	50 <u>/</u> 5"	>4.5 P	11									
	HARD DRILLING HARD DRILLING 		18	5913"	3.50 P	15									
	BEDROCK HARD DRILLINGPossible Cobbles  Strong, gray, rock mass quality, highly weathered, close fractured DOLOSTONE, 2-inch spaced fresh joints, horizontal, oblique and vertical joints with soft infilling, slightly rough hard joint wall		1	CORE											
	Run #1: 60.5 to 70.5 feet RECOVERY =100% RQD = 45% 		_												
Bec	75	OTE		ing		3-13	-20°	15	WATER I	L <b>EVE</b> V			A 0 ft		
Dril Dril	illing Contractor Wang Testing Servi	ces mara	D as	rill Rig	ecked	CN by	IE-5 C. M	5		▼ NA NA			IA	y	

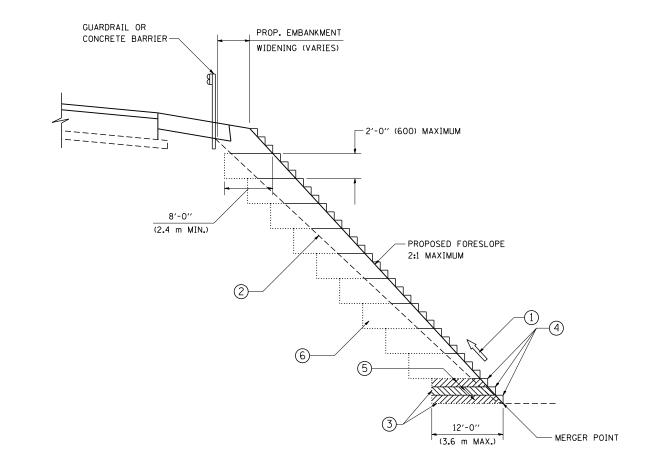
SOIL BORING BSB-02

STA 741+05, 12				
	REVISED -	AM, AWM	DESIGNED -	
STATE OF ILLIN	REVISED -	MS	CHECKED -	

E NAME =	USER NAME =	DESIGNED - AM, AWM	REVISED -
111 S. Wacker Drive, Suite 3910		CHECKED - MS	REVISED -
Chlcago, IL 60606 NEERS & SURVEYORS Ph: 312-235-6783	PLOT SCALE =	DRAWN - AM, AWM	REVISED -
NEETO & CONTENOIS 111. 312-233-0703	PLOT DATE =	CHECKED - MS	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

SOIL BORINGS II/II	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO.: 099-0918	631	(111N-B)B-R	WILL	47	36
31110010HL 140 033-0310			CONTRACT	NO. 6	0V28
SHEET NO. S7 OF S7 SHEETS		ILLINOIS FED. A	ID PROJECT		



# TYPICAL BENCHING DETAIL FOR EMBANKMENT

#### NOTES:

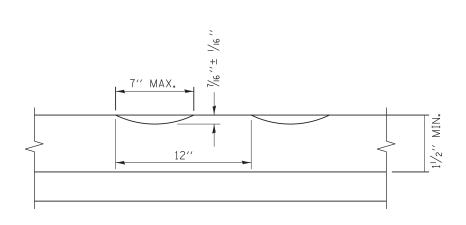
- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03
   OF THE STANDARD SPECIFICATIONS.
- (3) BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- 4 TRIM TO FINAL SLOPE.
- (5) EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

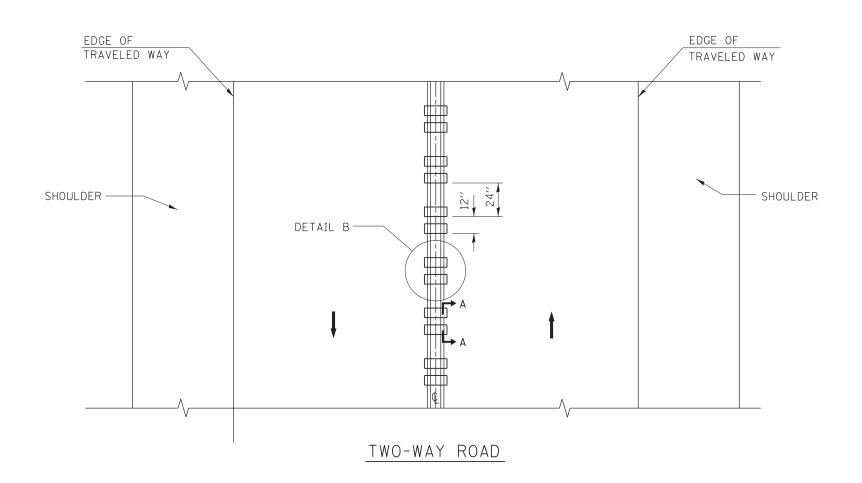
FILE NAME =	USER NAME = gaglianobt	DESIGNED -		REVISED -	
W:\diststd\22x34\bd51.dgn		DRAWN -	CADD	REVISED -	1
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	S.E.B.	REVISED -	1
	PLOT DATE = 1/4/2008	DATE -	06-16-04	REVISED -	L

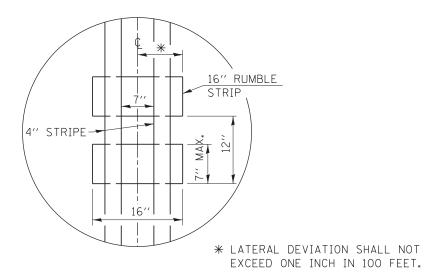
STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

BENCHING DETAIL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET:	
FOR EMBANKMENT WIDENING		631	(111N-B)B-R	WILL	47	<b>→</b>
TON LINDANNIERT WIDERING			BD-51	CONTRACT	NO.	8
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. RO	AD DIST. NO. 1   ILLINOIS FED. AI	D PROJECT		



#### SECTION A-A





#### DETAIL B

#### GENERAL NOTES

CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.

SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS.
RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.

ALL RUMBLE STRIPS SHALL BE MILLED.

CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.

DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.

AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEPT CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.

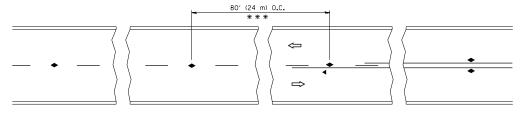
WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

#### BASIS OF PAYMENT

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.

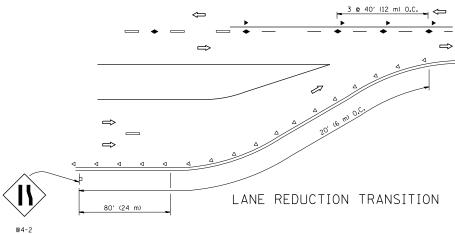
HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.

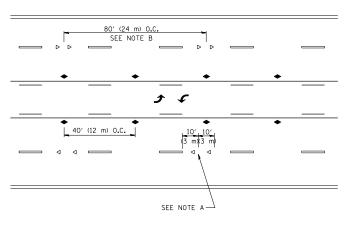
FILE NAME =	USER NAME = gaglianobt	DESIGNED - R. BORO	REVISED -				F.A.P.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\gaglianobt\d0108315\bd	55.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		RUMBLE STRIPES FOR CENTERLINE, NON-FREEWAY	631	(111N-B)B-R	WILL 47 38
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				BD 55	CONTRACT NO. 60V28
	PLOT DATE = 8/28/2014	DATE - 08-06-2012	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	D DIST. NO. 1   ILLINOIS FEE	D. AID PROJECT



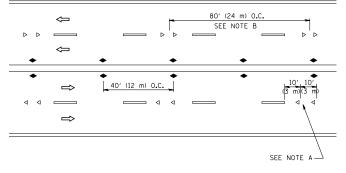
\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

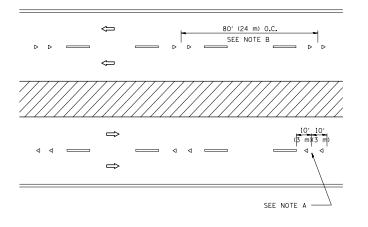




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

#### GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

#### LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

#### SYMBOLS

---- YELLOW STRIPE

── WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

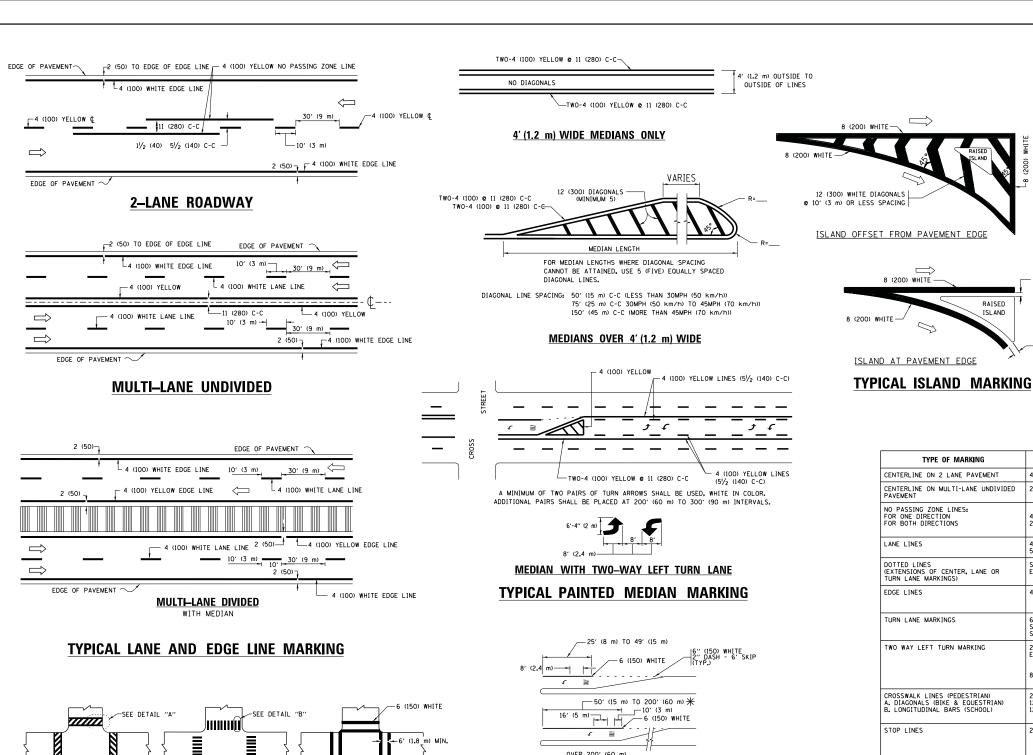
#### DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE

LEFT TURN

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

FILE NAME =	USER NAME = leysa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS	RTF.	SECTION	COUNTY	SHEETS	NO.
c:\pw_work\pwidot\leysa\d0108315\tc11.dgr		DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS			631	(111N-B)B-R	WILL	47	39
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED R	REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRACT	NO. 60	JV28
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST	NO. 1 ILLINOIS FED.	AID PROJECT		



- 6 (150) WHITE

2' (600)

PEDESTRIAN

BICYCLE & EQUESTRIAN

# 6 (150) WHITE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SO. FT. (1.5 m<sup>2</sup> ) ONLY AREA = 20.8 SO. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

12 (300) WHITE DETAIL "A" DETAIL "B" TYPICAL TURN LANE MARKING TYPICAL CROSSWALK MARKING \* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001. FILE NAME = DESIGNED - EVERS REVISED - C. JUCIUS 09-09-09 USER NAME = footemj SECTION COUNTY DISTRICT ONE **STATE OF ILLINOIS** w:\\ILØ84EBIDINTEG.ıllın ments\IDOT Offices\District 1\Projects\DistBIRAWM\CADDete\CADsheets\tc13.don REVISED -C. JUCIUS 07-01-13 (111N-B)B-R WILL 47 40 631 TYPICAL PAVEMENT MARKINGS CHECKED REVISED C. JUCIUS 12-21-15 **DEPARTMENT OF TRANSPORTATION** TC-13 CONTRACT NO. 60V28 SCALE: NONE OF 1 SHEETS STA. TO STA. SHEET 1 DATE REVISED -C. JUCIUS 04-12-16 PLOT DATE = 4/13/2016

6'-4" (1930) 40 (1020) COMBINATION

# LEFT AND U-TURN 5'-4" (1620) √ 32 R (810)

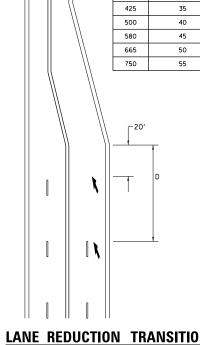
— 2 (50)

2 (50)

RAISED

ISLAND

8 (200) WHITE -



D(FT)

SPEED LIMIT

#### LANE REDUCTION TRANSITION

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

		<u>U-1</u>	<u>rurn</u>	GREATER OR WHEN SPECIFIED IN PLANS.
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 <b>e</b> 6 (150) 12 (300) <b>e</b> 45° 12 (300) <b>e</b> 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT OTHERWISE, PLACE AT DESIRED STOPPIN POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 ml LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO, FT. (0.33 m²) EACH "X"=54.0 SO, FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) <b>@</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

