

SHEET NO.	INDEX OF SHEETS	<u>S</u>	TATE HIGHWAY STANDARDS
1	COVER SHEET	STANDARD NO.	DESCRIPTION
2	INDEX OF SHEETS, STATE HIGHWAY STANDARDS, AND COMMITMENTS	000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
3 4 - 9A	GENERAL NOTES SUMMARY OF QUANTITIES	001001-02	AREAS OF REINFORCEMENT BARS
10	TYPICAL SECTIONS	001006	DECIMAL OF AN INCH AND OF A FOOT
11 - 13	SCHEDULES OF QUANTITIES	280001-07	TEMPORARY EROSION CONTROL SYSTEMS
14	ALIGNMENT AND TIES	420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
15 - 16	EXISTING CONDITIONS AND REMOVAL PLAN		
17 - 18	PROPOSED PLAN AND PROFILE	424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
19	INTERSECTION DETAILS AND ELEVATION PLAN	442201-03	CLASS C AND D PATCHES
20 21	ADA RAMP DETAILS SUGGESTED TRAFFIC CONTROL AND PROTECTION - NOTES AND DETAILS	515001-03	NAME PLATE FOR BRIDGES
21	SUGGESTED TRAFFIC CONTROL AND PROTECTION - NOTES AND DETAILS	542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA.
23 - 24	SUGGESTED TRAFFIC CONTROL AND PROTECTION - PRE-STAGE	542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15" THRU 72" EQUIVALENT DIAMETER
25 - 26	SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE I		
27 - 28	SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE II	602001-02	CATCH BASIN, TYPE A
29 - 30	SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE III	602306-03	INLET - TYPE B
31	EROSION CONTROL GENERAL NOTES	602401-06	PRECAST MANHOLE TYPE A 4' (1.22m) DIAMETER
32 - 37	EROSION CONTROL PLANS	602406-10	PRECAST MANHOLE TYPE A 6' DIAMETER
38		602701-02	MANHOLE STEPS
39 - 40 41 - 42	LANDSCAPING PLANS PROPOSED DRAINAGE AND UTILITY PLANS		
43 - 46	PRECAST CONCRETE BOX CULVERT DETAILS	604001-04	FRAME AND LIDS, TYPE 1
47	JUNCTION CHAMBER DETAILS - I	604051-04	FRAME AND GRATE TYPE 11
48	JUNCTION CHAMBER DETAILS - II	604086-03	FRAME AND GRATE TYPE 23
49	PAVEMENT MARKING PLANS	606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
50 - 56	TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	630001-12	STEEL PLATE BEAM GUARDRAIL
57	TS-02 DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS		
58 - 61	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN	631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
62 63 - 64	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE TRAFFIC SIGNAL INSTALLATION PLAN	643001-02	SAND MODULE IMPACT ATTENUATORS
65	CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHCILE PREEMPTION SEQUENCE	701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
66	TRAFFIC SIGNAL SCHEDULE OF QUANTITIES	701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
67 - 75	ROADWAY LIGHTING PLANS	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
76 - 96	STRUCTURAL DRAWINGS - SN 016-2417		
97	BD-02 DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB < 15'	701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
97A	BD-08 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
98	BD-22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT BD-32 BUTT JOINT AND HMA TAPER DETAILS	701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
99 100	TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
101	TC-11 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
102	TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS		
103	TC-16 SHORT-TERM PAVEMENT MARKING LETTERS AND SYMBOLS	701901-08	TRAFFIC CONTROL DEVICES
104	TC-22 ARTERIAL ROAD INFORMATION SIGN	704001-08	TEMPORARY CONCRETE BARRIER
105	TC-26 DRIVEWAY ENTRANCE SIGNING	780001-05	TYPICAL PAVEMENT MARKINGS
106 - 114B	CROSS SECTIONS	781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
		805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
	COMMITMENTS	812001	RACEWAY EMBEDDED IN STRUCTURE
		838001-01	BREAKAWAY DEVICES
	NONE	814001-03	HANDHOLES
		857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
		873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
		878001-10	CONCRETE FOUNDATION DETAILS
		880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
		880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
		886001-01	DETECTOR LOOP INSTALLATIONS
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SECTION COUNTY TOTAL SHEET 2010-141-B COOK 114 2 CONTRACT NO. 60N21 JILLINDI SJ FED AID PROJECT HIGHWAY STANDARDS TMENTS OD RD AT THORN CREEK ets sta. to sta. F.A.U. RTE 3603 SECTION 2010-141-B

## **GENERAL NOTES**

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0213 OR 811 FOR FIELD LOCATIONS OR BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- 3. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM I.D.O.T. FIELD MAINTENANCE ENGINEERS.
- 4. IN ADDITION TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 6. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- 7. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 8. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
- 9. THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, AT PATRICE.HARRIS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 10. ANY SINAGE, PAVEMENT MARKINGS AND REFLECTORS DAMAGED DURING CONSTRUCTION OUTSIDE THE REMOVAL LINES SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 11. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, AND COMBINATION CURB AND GUTTER SHALL BE EPOXY COATED UNLESS NOTED ON THE PLANS.
- 12. THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A USACE PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO SECURE AND COMPLY WITH A USACE PERMIT FOR CONTRACTOR'S ACTIVITIES 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.
- 13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACESS TO ABUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 14. FOR STORM SEWERS CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
- 15. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 16. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTENT)" SHOWN IN PLANS.
- 17. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 18. 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
- 20. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 21. DE-ENERGIZING COMED'S DISTRIBUTION LINES (34 KV) MAY BE NECESSARY IN ORDER TO ACCOMODATE THE CONTRACTOR'S EQUIPMENT. COSTS MAY BE INVOLVED. CALL 1-800-EDISON1.
- 22. STAGING AND WORK ZONES ARE ALLOWED ONLY ON THE WEST SIDE OF THORN CREEK. THEY ARE NOT ALLOWED ON THE EAST SIDE OF THORN CREEK.
- 23. THE COMMON FIVE LINED SKINK HAS BEEN OBSERVED BY COOK COUNTY FOREST PRESERVE'S WILDLIFE BIOLOGIST. THE CONTRACTOR SHALL INSURE PRECAUTIONS ARE TAKEN TO MINIMIZE IMPACTS DURING CONSTRUCTION.

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			URBAN	CONSTR. CODI 80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-2417
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	36
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25
20101000	TEMPORARY FENCE	FOOT	665	665
20101100		EACH	3	3
20101200	TREE ROOT PRUNING	EACH	15	15
20200100	EARTH EXCAVATION	CU YD	547	547
20800150	TRENCH BACKFILL	CU YD	156	156
21101615	TOPSOIL FURNISH AND PLACE,4"	SQ YD	3572	3572
25000210	SEEDING, CLASS2A	ACRE	0.5	0.5
25000310	SEEDING, CLASS4	ACRE	0.5	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	34	34
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	34	34
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	34	34
25100630	EROSION CONTROL BLANKET	SQ YD	3572	3572

			URBAN	CONSTR. CO 80% FED 20% STATE
CODE			TOTAL	BRIDGE 0013
NO.	ITEM	UNIT	QUANTITY	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	369	369
28000305	TEMPORARY DITCH CHECKS	FOOT	32	32
28000400	PERIMETER EROSION BARRIER	FOOT	2546	2546
28000510	INLET FILTERS	EACH	5	5
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	3572	3572
28100103	STONE RIPRAP, CLASS A2	SQ YD	7	7
28200200	FILTER FABRIC	SQ YD	7	7
31101400	SUBBASE GRANULAR MATERIAL, TYPE B6"	SQ YD	506	506
35101600	AGGREGATE BASE COURSE, TYPE B4"	SQ YD	477	477
35101800	AGGREGATE BASE COURSE, TYPE B6"	SQ YD	59	59
35501300	HOT-MIX ASPHALT BASE COURSE,4"	SQ YD	12	12
35501308	HOT-MIX ASPHALT BASE COURSE,6"	SQ YD	52	52
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1126	1126
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	170	170

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GROUP, INC.	PLOT SCALE = 2.0000 ' / 10.	CHECKED -	JMT	REVISED -	DEPARTMENT OF TRANSPORTATION			10113-01			JRN CREEK			CONTRACT	T NO. 60N21
	PLOT DATE = 2/1/2019	DATE –	01/24/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. 4	ID PROJECT	

		1	URBAN	CONSTR. CODE 80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-2417
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	55	55
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	291	291
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	7	7
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	174	174
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	201	201
42001300	PROTECTIVE COAT	SQ YD	653	653
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3963	3963
42400800	DETECTABLE WARNINGS	SQ FT	58	58
44000100	PAVEMENT REMOVAL	SQ YD	538	538
44000158	HOT-MIX ASPHALT SURFACE REMOVAL,2 1/4"	SQ YD	1908	1908
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	52	52
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	825	825
44000600	SIDEWALK REMOVAL	SQ FT	3661	3661
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	10	10

			URBAN	CONSTR. CODI 80% FED 20% STATE
CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-2417
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	19	19
44201796	CLASS D PATCHES, TYPE IV,12 INCH	SQ YD	120	120
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1
50102400	CONCRETE REMOVAL	CU YD	19.7	19.7
50200100	STRUCTURE EXCAVATION	CU YD	32	32
50300225	CONCRETE STRUCTURES	CU YD	83.2	83.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	104.4	104.4
50300260	BRIDGE DECK GROOVING	SQ YD	646	646
50300300	PROTECTIVE COAT	SQ YD	1107	1107
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	171.7	171.7
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	5309	5309
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	106050	106050
50800515	BAR SPLICERS	EACH	401	401
50900105	ALUMINUM RAILING, TYPE L	FOOT	221	221

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 DEPARTMENT of TRANSPORTATION
 CHICAGO HEIGHTS-GLENWOOD

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חר		ORN CREEK	3603	2010-141-B	COOK	114	5			
50					CONTRACT	NO.	60N21			
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-2417
51500100	NAME PLATES	EACH	1	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1	1
54010402	PRECAST CONCRETE BOX CULVERTS4' X 2'	FOOT	618	618
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	16	16
550A0340	STORM SEWERS, CLASS A, TYPE 212"	FOOT	136	136
55100500	STORM SEWER REMOVAL12"	FOOT	277	277
55100700	STORM SEWER REMOVAL15"	FOOT	647	647
59000200	EPOXY CRACK INJECTION	FOOT	143	143
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1
60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	2	2
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	1	1

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CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-241
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	1	1
60500040	REMOVING MANHOLES	EACH	1	1
60500050	REMOVING CATCH BASINS	EACH	1	1
60500205	FILLING CATCH BASINS	EACH	2	2
60600605	CONCRETE CURB, TYPE B	FOOT	36	36
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	184	184
60604700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (MODIFIED)	FOOT	605	605
60625600	ISLAND PAVEMENT (6")	SQ YD	8	8
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25	25
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	315	315
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2
66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
63200310	GUARDRAIL REMOVAL	FOOT	452	452
66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	DAYS	5	5
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1

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ž	GROUP, INC.	PLOT SCALE = 2.0000 ' / in.	CHECKED -	JMT	REVISED -	DEPARTMENT OF TRANSPORTATION		CHICAGO HEI	GU12-GT	EINWOOD	RUAI INUI	KN CREEK			CONTRAC	T NO. 60N21
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			URBAN	CONSTR. COD 80% FED 20% STATE
CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-2417
67100100	MOBILIZATION	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	36	36
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1689	1689
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	282	282
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	6620	6620
70300924	PAVEMENT MARKING TAPE, TYPE IV24"	FOOT	200	200
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	600
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1125	1125
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	3	3
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	4	4
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	3	3
72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	35	35

			URBAN	CONSTR. COI 80% FED 20% STATE BRIDGE
CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	0013 S.N. 016-241
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	3
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	10.5	10.5
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	88	88
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE4"	FOOT	1595	1595
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE6"	FOOT	810	810
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE8"	FOOT	113	113
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	43	43
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	69	69
78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	62	62
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	308	308
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	150	150
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	28	28

•		USER NAME = JENT	DESIGNED -	JMT	REVISED -			SUMMARY OF QUANTITIES CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK				F.A.U. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
	Accurate		DRAWN -	JN	REVISED -	STATE OF ILLINOIS						3603	2010-141-B	соок	114 7	
	GROUP, INC.	PLOT SCALE = 2.0000 ' / in.	CHECKED -	JMT	REVISED -	DEPARTMENT OF TRANSPORTATION		CHICAGO HEIGHIS-GLENWOOD RD AT THORN CREEK				CONTRAC	T NO. 60N21			
		PLOT DATE = 1/31/2019	DATE –	01/24/2019	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.							ILLINOIS FED	AID PROJECT	

г				URBAN	CONSTR. CODE 80% FED 20% STATE
	CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-2417
	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	21	21
	78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	72	72
	78100300	REPLACEMENT REFLECTOR	EACH	6	6
	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8
	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	93	93
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3	3
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	404	404
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	180	180
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	186	186
	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	195	195
	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X6"	EACH	2	2
	81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X86"	EACH	2	2
	81400100	HANDHOLE	EACH	2	2
	81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	735	735

[	Γ		URBAN	CONSTR. CO 80% FED 20% STATE
CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-241
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.4	FOOT	120	120
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.2	FOOT	360	360
81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	490	490
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	3	3
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	33	33
00000405				
83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	3	3
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	3	3
84200804	REMOVAL OF POLE FOUNDATION	EACH	3	3
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 143C	FOOT	290	290
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 145C	FOOT	980	980
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 147C	FOOT	1280	1280
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 141 PAIR	FOOT	1150	1150
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4	4

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•	USER NAME = JENT	DESIGNED -	JMT	REVISED -				SUMMA	RY OF OL	IANTITIE	s		F.A.U. BTF	SECTION	COUNTY TOTAL SHEET
👗 Accurate		DRAWN -	JN	REVISED -	STATE OF ILLINOIS	CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK						3603	2010-141-B	СООК 114 8	
GROUP, INC.	PLOT SCALE = 2.0000 '/ in.	CHECKED -	JMT	REVISED -	DEPARTMENT OF TRANSPORTATION		ICAGO HE	IGH15-G	LEINWUU	U KU AI	IHUKN	UREEN			CONTRACT NO. 60N21
	PLOT DATE = 1/31/2019	DATE -	01/24/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.		TO STA.		ILL INOIS FED.	AID PROJECT

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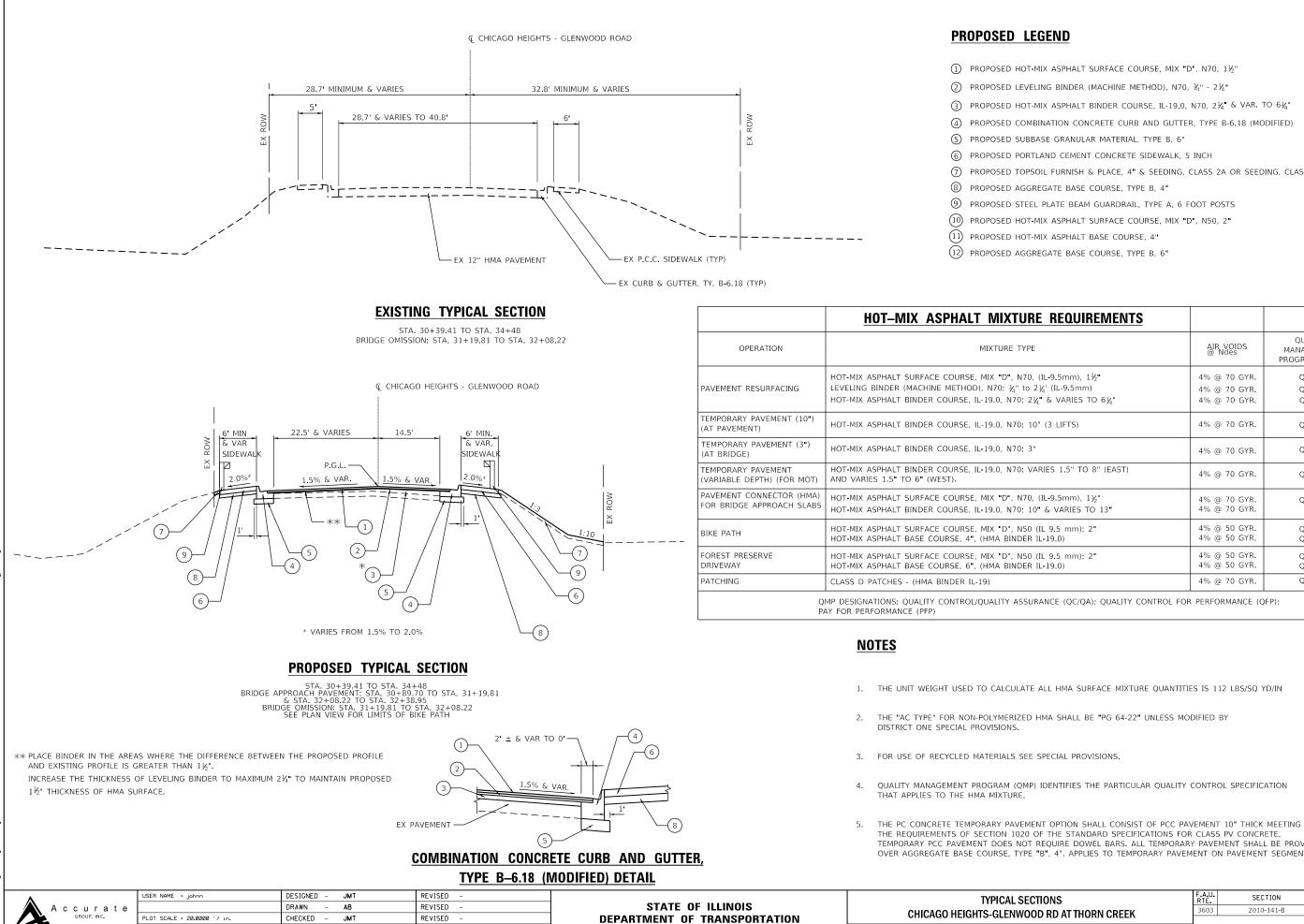
Г				URBAN	CONSTR. COD 80% FED 20% STATE
	CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-2417
8	87900200	DRILL EXISTING HANDHOLE	EACH	4	4
ł	88600100	DETECTOR LOOP, TYPE I	FOOT	62	62
1	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1
8	89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	3	3
1	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1	1
1	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3275	3275
1	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1
ł	89502376	REBUILD EXISTING HANDHOLE	EACH	1	1
ł	89502380	REMOVE EXISTING HANDHOLE	EACH	1	1
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	1
	X0322141	REMOVE TEMPORARY WOOD POLE	EACH	1	1
	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	1	1
	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	775	775
	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	50	50
	X0326148	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	3	3

			URBAN	CONSTR. CO 80% FED 20% STAT
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-24
X0327004	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	3	3
X0327036	BIKE PATH REMOVAL	SQ YD	7	7
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	699	699
X1400338	UNDERGROUND CONDUIT, STAINLESS STEEL, 2" DIA.	FOOT	40	40
X4402800	ISLAND PAVEMENT REMOVAL	SQ YD	10	10
X5030305	CONCRETE WEARING SURFACE,5"	SQ YD	590	590
X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	24	24
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	967	967
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	282	282
X8410118	MAINTENANCE OF TEMPORARY LIGHTING SYSTEM	LSUM	1	1
X8440120	REMOVE AND RE-ERECT EXISTING LIGHTING UNIT	EACH	3	3
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	457	457
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	8	8
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1

٨	USER NAME = JENT	DESIGNED -	JMT	REVISED -				SUMMA		NTITIES		F.A.U.	SECTION	COUNTY	TOTAL SHEET
A c c u r a t e		DRAWN -	JN	REVISED -	STATE OF ILLINOIS		SUMMARY OF QUANTITIES CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK				RN CREEK	3603	2010-141-B	СООК	114 9
GROUP, INC.	PLOT SCALE = 2.0000 ' / in. PLOT DATE = 2/1/2019	CHECKED - DATE -	JMT 01/24/2019	REVISED – REVISED –	DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	_	ILLINOIS FED. A	CONTRACT	T NO. 60N21

			URBAN	CONSTR. COD 80% FED 20% STATE
CODE NO.	ІТЕМ	UNIT	TOTAL QUANTITY	BRIDGE 0013 S.N. 016-2417
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	3	3
Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	217	217
Z0056669	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE,15"	FOOT	640	640
Z0062456	TEMPORARY PAVEMENT	SQ YD	572	572
Z0062458	TEMPORARY PAVEMENT (VARIABLE DEPTH)	TON	27	27
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1
Z0073700	TEMPORARY WALL BRACING SYSTEM	L SUM	1	1
X03Z7998	BOLLARD TO BE RELOCATED	EACH	1	1

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ö	•	USER NAME = JENT	DESIGNED – JMT	Т	REVISED -		SUMMARY OF QUANTITIES							SECTION	COUNTY TOTAL SHEET	
¥	🔺 Accurate		DRAWN – JN		REVISED -	STATE OF ILLINOIS				• • •			3603	2010-141-B	COOK 114 9A	
ST	GROUP, INC.	PLOT SCALE = 2.0000 '/ in.	CHECKED – JMIT	т	REVISED -	DEPARTMENT OF TRANSPORTATION		HICAGO HEIO	iHIS-GLI	ENWOOD	RD AT THUR	IN CREEK	1		CONTRACT NO. 60N21	
Ĩ		PLOT DATE = 2/1/2019	DATE - 01/	/24/2019	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.							ILLINOIS FED. A	. AID PROJECT	



REVISED

PLOT DATE = 1/31/2019

DATE

01/24/2019

 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½" (2) PROPOSED LEVELING BINDER (MACHINE METHOD), N70,  $\frac{3}{4}$ " - 2 $\frac{1}{4}$ " ③ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2½ & VAR. TO 6½ (4) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (MODIFIED) 5 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 6" 6 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH 7 PROPOSED TOPSOIL FURNISH & PLACE, 4" & SEEDING, CLASS 2A OR SEEDING, CLASS 4 (8) PROPOSED AGGREGATE BASE COURSE, TYPE B, 4" 9 PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (10) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"

(12) PROPOSED AGGREGATE BASE COURSE, TYPE B, 6"

E REQUIREMENTS		
E	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
(IL-9.5mm), 1½" 2¼' (IL-9.5mm) ¼" & VARIES TO 6¼"	4% @ 70 GYR. 4% @ 70 GYR. 4% @ 70 GYR.	QC/QA QC/QA QC/QA
D" (3 LIFTS)	4% @ 70 GYR.	QC/QA
	4% @ 70 GYR.	QC/QA
ARIES 1.5" TO 8" (EAST)	4% @ 70 GYR.	QC/QA
(IL-9.5mm), 1½" )" & VARIES TO 13"	4% @ 70 GYR. 4% @ 70 GYR.	QC/QA
(IL 9.5 mm); 2" IL-19.0)	4% @ 50 GYR. 4% @ 50 GYR.	QC/QA QC/QA
(IL 9.5 mm); 2" IL-19.0)	4% @ 50 GYR. 4% @ 50 GYR.	QC/QA QC/QA
	4% @ 70 GYR.	QC/QA

SCALE:

SHEET

OF SHEET

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION

TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS. ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER AGGREGATE BASE COURSE, TYPE "B", 4". APPLIES TO TEMPORARY PAVEMENT ON PAVEMENT SEGMENT NOT ON BRIDGE.

T	ONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DD RD AT THORN CREEK			3603	2010-141-B	СООК	114	10
					CONTRACT	NO.	60N21
TS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

				LANDSCAPING AN	D EROSION SCHEDULE						
STATION	STATION	OFFSET	SEEDING, CLASS 2A (ACRE)	SEEDING, CLASS 4 (ACRE)	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	EROSIOIN CONTROL BLANKET (SQ YD)	TEMPORARY EROSION CONTROL SEEDING (POUND)	TEMPORARY EROSION CONTROL BLANKET (SQ YD)
CHICAGO H	IEIGHTS - G	LENWOOD RD	1								
14+84	15+61	LT	0.06		105	2	2	2	105	11	105
16 + 15	17+13	LT	0.02		282	5	5	5	282	29	282
16+68	17+13	RT	0.01		44	1	1	1	44	5	44
36+31	44+57	LT	0.39		1,421	26	26	26	1,421	147	1,421
30+60	31+26	LT		0.07	361				361	37	361
30+62	31+55	RT		0.1	501				501	52	501
31+80	34+61	LT		0.06	294				294	30	294
32+18	34+55	RT		0.12	563				563	58	563
ROUNDED	TOTAL		0.5	0.5	3572	34	34	34	3572	369	3572

NUM         IMP         Property is provided by the property is provided by the provi							PAVEME	NT MARKING SCHEDULE					,
Lett         Lett <thlett< th="">         Lett         Lett         <thl< td=""><td></td><td></td><td>ТҮРЕ</td><td>MARKING LINE 4"</td><td>MARKING LINE 6"</td><td>MARKING LINE 8"</td><td>MARKING LINE 12"</td><td>MARKING LINE 24"</td><td>MARKING LETT &amp; SYMB</td><td>PAVEMENT MARKING LINE 4"</td><td>PAVEMENT MARKING LINE 24"</td><td>PAVEMENT MARKING LETT &amp; SYMB</td><td>MODIFIED URETHANE PAVEMENT MARKING LINE 6" (FOOT)</td></thl<></thlett<>			ТҮРЕ	MARKING LINE 4"	MARKING LINE 6"	MARKING LINE 8"	MARKING LINE 12"	MARKING LINE 24"	MARKING LETT & SYMB	PAVEMENT MARKING LINE 4"	PAVEMENT MARKING LINE 24"	PAVEMENT MARKING LETT & SYMB	MODIFIED URETHANE PAVEMENT MARKING LINE 6" (FOOT)
Inters         Intersection										(1001)	(1001)	(31)	
D2-20         US-30         VELOW         C         370         C <thc< th=""> <thc< th=""> <thc< th=""> <!--</td--><td></td><td></td><td>WHITE DASH</td><td></td><td>34</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ,</td></thc<></thc<></thc<>			WHITE DASH		34								ļ,
B+03         D5+43         YELLOW         43         Constraints         Constraints <thconstraints< th="">         Constraints</thconstraints<>													ļ,
B3-60     Dy-80     VELOW     114     Income				43									· · · · · · · · · · · · · · · · · · ·
13+44     INCHT TURN ARROW     Inc.	15+00	15+69	YELLOW										,
15:56     15:40     16:40	15+00	30+97	DOOUBLE YELLOW	114									
13-55 13-5030-60WHTEMHTE49Me<	15+14		RIGHT TURN ARROW	d .									,
15+90	15+56	15+97	WHITE			113							,
1544         WHITE STOP BAR         Inclusion         Inclusion         23         Inclusion         Inclu	15+56	30+69			49								
15-69     w     WITE STOP BAR     11     Image: stop BAR     112     Image: stop BAR     1mm     1mm <t< td=""><td>15+59</td><td>15+90</td><td>WHITE</td><td></td><td></td><td></td><td>43</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	15+59	15+90	WHITE				43						
													· · · · · · · · · · · · · · · · · · ·
164-9         17-03         WHTE         C         54         C         <			WHITE STOP BAR					16					
30-38         30-49         WHTE         Image: Market Ma				112				23					'
30+75       WHTE       Venter       Methe       Methed       M													<u> </u>
30+0       17-2       WHTE       22.3       Income       Income <th< td=""><td></td><td>30+69</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td></th<>		30+69											<u> </u>
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					140								· · · · · · · · · · · · · · · · · · ·
30-9132+41DUBLE YELLOWImage: Constraint of the constraint o		17+02	WHITE	223									· · · · · · · · · · · · · · · · · · ·
30+9132+41WHITEImage of the state of the											28		· · · · · · · · · · · · · · · · · · ·
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$										308			
32+3433+36WHTE9102 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>150</td></th<>													150
32+3935+50DOUBL YELLOW622Income of the second se				223									· · · · · · · · · · · · · · · · · · ·
32+4534+47WHTE202Income of the second sec					102								ļ'
33+00ARROW AND ONLYMAROW AND ONLYMAROWMarch													<u> </u>
33+00LEFT TURN ARROWConstraint<	32+45	34+47		202									<u> </u>
33+00LEFT TURN ARROWLEFT TURN ARROW<	33+00		ARROW AND ONLY						36				<u> </u>
33+3600NLY11363633+360NLY00000262633+3634+49WHITE DASH03000026038+3338+4300ULE WHITE20000000040+3940+4900ULE WHITE200000000041+005TOP BAR00007000000	33+00		LEFT TURN ARROW						26				,
33+36ONLYONLYCompanyAction CompanyAction Company	33+00		LEFT TURN ARROW						26				,
33+3634+49WHITE DASHMOUBLE DASH3030Mone	33+36		ONLY									36	· · · · · · · · · · · · · · · · · · ·
33+3634+49WHITE DASHMOUBLE DASH3030Mone	33+36		ONLY									26	,,
38+33         38+43         DOUBLY WITE         20         Image: Constraint of the system         Constraint of the system <thconsystem< th=""> <thconstr< td=""><td></td><td>34+49</td><td></td><td></td><td>30</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>, ,</td></thconstr<></thconsystem<>		34+49			30								, ,
40+39         40+49         DOUBLE WHITE         20         Image: Constraint of the state of the stat				20	1			1					1
41+00 STOP BAR C C C C C C C C C C C C C C C C C C C													t,
		1						7					t/
	41+00	34+48	WHITE	8				,					ļ/
		57170	******	-	810	113	21	69	88	308	28	62	150

SHORT	TERM PAVEMENT I	MARKING		
	SHORT TERM	SHORT TERM		
TYPE	PAVEMENT	PAVEMENT		
TIPE	MARKING	MARKING REMOVAL		
	(FOOT)	(SQ FT)		
CHICAGO HEI	GHTS - GLENWOO	d road		
LANE LINES	381	63		
TURN LANES	288	48		
STOP BAR	582	97		
LETTER AND	438	73		
SYMBOL				
TOTAL	1689	282		

TEMPORARY PAVEMENT								
STATION	TEMPORARY PAVEMENT (SQ YD)	TEMPORARY PAVEMENT VARIABLE DEPTH (SQ YD)						
CHICAGO HEIGHTS -	GLENWOOD ROAD							
NW OF BRIDGE	19	13						
NE OF BRIDGE	204	15						
SW OF BRIDGE	349							
TOTAL	572	27						

		RΔ	SED REFLECTIVE PAVI	MENT MARKERS							
STATION	STATION	OFFSET	RAISED REFLECTIVE PAVEMENT MARKER (EACH)	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER (EACH)	REPLACEMENT REFLECTOR (EACH)						
187TH STR	187TH STREET										
15+00	15+56	RT	2								
CHICAGO H	IEIGHTS - G	LENWOOD F	ROAD								
30+80	35+48	LT		24							
30+80	35+48	LT		24							
30+90	35+48	LT		24							
32+45	33+36	LT	3								
32+45	35+48	CL	16								
35+50	35+48	CL			6						
ТОТ	AL		21	72	6						

			TREE REMOVAL	
STATION	STATION	OFFSET	TREE REMOVAL (OVER 15 UNITS DIAMETER) (EACH)	TREE REMOVAL (ACRES)
CHICAGO	HEIGHTS -	GLENWOOD	ROAD	
38+70		30' LT	36	
37+00	40+69	16' LT		0.2
TOTAL			36	0.2

5	<b>A</b>	USER NAME = JENT	DESIGNED -	<b>419</b> T	REVISED -				SCHEDUL	ES OF OU	ANTITIES	.1	F.A.U. RTF.	SECTION	COUNTY TOTAL SHEET
HA H	🗼 Accurate		DRAWN -	IH	REVISED -	STATE OF ILLINOIS	<u>сп</u>			<b>-</b>		IORN CREEK	3603	2010-141-B	СООК 114 11
ž ω	GROUP, INC.	PLOT SCALE = 2.0000 ′ / ın.	CHECKED -	JMT	REVISED -	DEPARTMENT OF TRANSPORTATION			Eluni3-u						CONTRACT NO. 60N21
Ľ		PLOT DATE = 2/1/2019	DATE –	01/24/2019	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT

[			SIDEWALK SC		
STATION	STATION	STATION	SIDEWALK REMOVAL (SQ FT)		
	CHICAGO H	EIGHTS G	LENWOOD RC	DAD	
30+41	30+98	RT	619		619
30+55	30+82	LT		265	265
32+28	34+50	RT		1225	1224
32+28	34+50	LT		1760	1459
41+95	42+04	LT		94	94
30+68		LT	23		
30+83		RT	12		
41+00		LT	23		
TOTAL			58	3963	3661

RAISED REFLECTIVE
PAVEMENT MARKER,
REMOVAL
(EACH)
3
3

	TREE R	OOT PRUNING
STATION	OFFSET	TREE ROOT PRUNING (EACH)
CHICAGO	HEIGHTS -	GLENWOOD ROAD
		1
		1
		1
		1
36+95	35' LT	1
37+58	33' LT	1
37+88	38' LT	1
38+07	34' LT	1
38+98	39' LT	1
39+82	39' LT	1
39+88	44' LT	1
40+23	34' LT	1
40+62	33' LT	1
42+95	33' LT	1
43+60	34' LT	1
TOTAL		15

								PAVEMENT SCHEDU	JLE							TEMPORARY FEN	CE SCHEDULE	
STATION	STAT	TION	OFFSET	HOT-MIX ASPHALT SURFACE REMOVAL, 2¼" (SQ YD)	I SLIBEACE REMOVAL -L -	IOT-MIX ASPHALT URFACE COURSE, MIX "D", N70 (TON)	LEVELING BINDER (MACHINE METHOD) N70 (TON)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (TON)	PAVEMENT CONN (HMA) FOR BR APPROACH SI (SQ YD)	IDGE SUBFACE COURSE	HOT-MIX ASPHALT BASE COURSE, 4" (SQ YD)	HOT-MIX ASPHALT BASE COURSE, 6" (SQ YD)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	ISLAND PAVEMENT, 6" (SQ YD)	STATION CHICAGO HE	STATION	OFFSET (LT/RT)	TEMPORARY FENCE (FOOT)
15+00 15+00 17+03	CHICA	03	LT&RT	LENWOOD RD 1197.3	20	107 2 2	107.2	179 104 3					574 335 9		PRE STAGE / 32+37 STAGE II 38+42 41+03		RT LT LT	79 258 206
32+55 34+48 40+96 43+05	34+ 41+ 43+	48	LT&RT	711	14	1 63	62.6	3 2		1 6	12	52	9 6 3 23		43+34 TOTAL	44+55	LT	665
30+69 32+39 SE ISLAND CLASS D F		55							128 73				58 33 67	8				
	тоти	AL		1908 COMBINA	TION CONCRETE CURB A	174 ND GUTTER SCHEI	DULE	291		7	12	52 REMOVAL SCHEDULE	1126	8	r	INI F	ET FILTERS	
STATION			OFFSET	COMBINATION CUR AND GUTTER REMOV (FOOT)	B COMBINATION	I CONCRETE ER TYPE B 6-12	COMBINATION CON CURB AND GUTTER TY (MODIFIED) (FO	PE B 6-18 CONCR	ETE CURB, B (FOOT)	STATION STATION	BIKE PATH REMOVAL (SQ YD)	PAVEMENT REMOVAL (SQ YD)	ISLAND PAVEMENT REMOVAL (SQ YD)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)		STATION O (L	FEGET	INLET FILTERS (EACH)
CHICAGO F 30+36 30+40 30+59 32+44	31+ 30+ 31+	-S - GLE +26 +55 +12 +47	RT RT LT LT	CAD <u>121</u> <u>46</u> <u>60</u> 230	2		60 230			CHICAGO HEIGHTS - GLE SE ISLAND 30+69 31+20	ENWOOD RD	282	10	52		15+70	23' LT 3' LT 7' RT	1 1 1 2AD
32+54 38+26 40+30 42+86	38+ 40+ 43+	+43 +49 +58 +42	RT LT LT LT	194 23 28 64	21 21 21	3 3	194		36	32+08         32+55           32+56         33+81           40+90         41+05           43+20	7.4	219 37				33+25 2	22' LT 3' RT	1 1 5
43+91 TOTAL	44+	+49	LT	59 825	59		605		36	TOTAL	7.4 TEMOPARY_CONCR	538 RETE BARRIER SCHEDULE	10	52		CLASS D PATCHES	ŝ	
CHICAGO I NW SID NE SID SW SID SE SIDI	DE OF T E OF T DE OF T	TS - GLI THE BRI THE BRI THE BRI THE BRI	IDGE DGE IDGE	GUARDRAIL REMOVAL (FOOT) ROAD 57 185 155 155	LDRAIL AND TRAFFIC BAR L PLATE JUARDRAIL, A,6 FOOT S (FOOT) 12.5 1 12.5 1 25 2 25 2	ARKER- TRAFFIC PLIED TERM	BARRIER TRAFFIC TERMINA (EACH) SPECIAL (EACH) (EACH)	L, TYPE 1 RE TANGENT	UARDRAIL FLECTORS, TYPE A (EACH) 4 4 4 8		CONCRETE TEM BARRIER COM (FOOT) BARRII GLENWOOD ROAD 300 300 -	OCATE         PINNING TEM           PORARY         CONCRETE E           NCRETE         (EACH           66         138           600         66           225         12           1125         282	BARRIER H) 24 24 36 24 9	ORS, C	STATION           CAGO HEIGHTS - GLE           33+25           38+30           40+50           43+00           44+20           TOTAL	12 INCH (SQ YD)	TYPE III 12 INCH (SQ YD) 19 19	TYPE IV 12 INCH (SQ YD) 37 43 39 120
STATION CHICAGO 30+65 30+93 30+93 30+93 31+62 61+32 31+86 32+00 32+13 32+60 TC	STA HEIGH 34 30 32 31 31 31 31 31 33	ATION TTS - GL +47 +70 +07 +20 +50 +48	OFFSET	ТҮРЕ	LASTING PAVEMENT MARKING REM WATER BLASTING (SQ FT) 127 54 54 57 54 18 16 26 21 233 26 67 699	STATIO	DN TEMPORA (NON REDIRE) (TEST LEVE (EACH) GO HEIGHTS - GLENWO AGE E I E II E II 2 E III 1	CTIVE), (FULLY REDII NARROW), TES (EACH OD ROAD 2 2 2 4	ARY RECTIVE, (FUI T LEVEL 2 NARR 1)	RELOCATE LLY REDIRECTIVE, OW), TEST LEVEL 2 (EACH) 1 1 1 3 3	30+36 30+40 30+41 30+55 30+59 32+28 32+28 32+28 32+44 32+54 32+54 38+26 40+30		TYPE	PROTECTIVE COAT (SQ YD) 34 10 69 29 17 136 196 64 54 5 6 6 6 6		STATION         OFFSET           CHICAGO HEIGHTS         30+80         60' RT           31+22         35' RT         32+70         35' RT           TOTAL         TOTAL         TOTAL         TOTAL	CH CHECKS	UNK FION H)
30+46 31+03 31+03 38+17 40+92 41+10 41+28 42+84	D HEIG 22 28.7 28.7 28.7 28.7 18.0 27 20 20 25	' RT 7' RT 7' RT 6' LT '' LT '' LT	TYPE	SIGN PANEL - RELOCATI 2 (SQ FT) - ASSEMB (I 2 ROAD 15 15 20	LY - TYPE A ASSEM		RELOCATE SIGN PANEL - TYPE 1 (SQ FT) 9 1.5 1.5	15+07 CHICAGO HEIGH 32+31 34+65 34+68 43+44 187 ST: STAGE 16+47	34+48 38+99 43+01 44+48	RT         127           RD PRE STAGE AND STAGE         RT           RT         255           RT         455           LT         887           RT         141           RT         95	42+86 41+95 43+91 TOTAL	43+42         LT           42+04         LT           44+49         LT	TYPE B CURB SIDEWALK B-6.12 C&G MPORARY PAVEMENT VARIABLE DEPTH) N TEMPORARY VARIABLE (TON IGHTS - GLENWOOD F I 10.2	DEPTH S) ROAD 3 3		CHICAGO HEIGHTS - 37+69 22' LT 38+44 27' LT TOTAL	GLENWOOD R	
A		U r a	t e PL	ER NAME = JENT DT SCALE = 2.0000 ' / 1n. DT DATE = 2/1/2019	DRAWN - CHECKED -	AB IH JMT 01/24/2019	REVISED - REVISED - REVISED - REVISED -			ATE OF ILLINOIS NT OF TRANSPORT	ATION	CHICAG SCALE: SHE	SCHEDULES OF GO HEIGHTS-GLENW		I CREEK TO STA.	3603 2010	TION -141-B	COUNTY TOTAL SHE SHEETS NO COOK 114 12 CONTRACT NO. 60N2 PROJECT



		41+03
		43+34
		TOTAL
8		
0		
8		
0	J	
DRIVEWAY		
DAV/EN4ENTE		

	INLET FILTERS	5
STATION	OFFSET (LT/RT)	INLET FILTERS (EACH)
187TH STREET		
15+40	23' LT	1
15+70	3' LT	1
15+70	47' RT	1
CHICAGO HEIGH	HTS - GLENWO	DD ROAD
33+25	22' LT	1
33+25	8' RT	1
TOTAL		5

		EARTHWORK S	SCHEDULE (CHICAG	O HEIGHTS -	GLENWOOD	RD)				EARTHWORK	SCHEDULE (CHICAG	O HEIGHTS -	GLENWOOD	RD)	
STATION	LENGTH (FOOT)	CUT (SQ FT)	AVERAGE END AREA (SQ FT)	TOTAL (CU YD)	FILL (SQ FT)	AVERAGE END AREA (SQ FT)	TOTAL (CU YD)	STATION	LENGTH (FOOT)	CUT (SQ FT)	AVERAGE END AREA (SQ FT)	TOTAL (CU YD)	FILL (SQ FT)	AVERAGE END AREA (SQ FT)	TOTAL (CU YD
RE-STAGE								STAGE I							
29+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	29+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
29+50.00		0.00		0.000	0.00	0.00	0100	29+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
30+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	30+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
30+00.00	50.00	0.00	2.00	3.70	0.00	0.00	0.00	30+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
30+50.00	50.00	4.00	5.46	10.11	0.00	0.00	0.00	30+50.00	E0.00	0.00	12.20	22.50	0.00	0.00	0.00
31+00.00	50.00	6.92	5.40	10.11	0.00	0.00	0.00	31+00.00	50.00	24.40	12.20	22.59	0.00	0.00	0.00
31+19.81	19.81	10.90	8.91	6.54	0.00	0.00	0.00	31+19.81	19.81	30.80	12.20	20.25	0.00	0.00	0.00
	30.19	10.50	5.45	6.09	0.00	0.00	0.00	51+19.81	30.19	50.80	0.00	0.00	0.00	0.00	0.00
31+50.00	58.22	0.00	0.00	0.00	0.00	0.00	0.00	31+50.00	58.22	0.00	14.80	31.91	0.00	1.05	2.26
32+08.22		0.00			0.00			32+08.22	J0.22	29.60	14.80	51.91	2.10	1.05	2.20
32+25.00	16.78	10.40	5.20	3.23	0.00	0.00	0.00	32+25.00	16.78	14.30	21.95	13.64	0.00	1.05	0.65
52+25.00	25.00	10.40	9.50	8.80	0.00	0.00	0.00	32+23.00	25.00	14.50	10.75	9.95	0.00	4.50	4.17
32+50.00	50.00	8.60	8.05	14.91	0.00	0.00	0.00	32+50.00	F0.00	7.20	7.25	12.42	9.00	7.10	10.10
33+00.00	50.00	7.50	0.05		0.00	0.00	0.00	33+00.00	50.00	7.30	7.25	13.43	5.20	7.10	13.15
33+50.00	50.00	5.60	6.55	12.13	0.00	0.00	0.00	22 - 50.00	50.00	6.40	6.85	12.69	3.20	4.20	7.78
33730.00	50.00	5.00	4.80	8.89	0.00	0.00	0.00	33+50.00	50.00	0.40	6.45	11.94	5.20	3.05	5.65
34+00.00	46.00	6.00	5.00	7.11	0.00	0.00	0.00	34+00.00	50.00	6.50	6.5	12.04	2.90	E 20	9.63
34+46.00	40.00	4.00	5.00	/.11	0.00	0.00	0.00	34+50.00	50.00	6.50	0.5	12.04	7.50	5.20	9.63
				85			0	25 + 00, 00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
								35+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
								35+50.00	F0.00	0.00	0.00	16.67	0.00	0.00	0.00
								36+00.00	50.00	18.00	9.00	16.67	0.00	0.00	0.00
		EARTHWORK S	SCHEDULE (CHICAG	O HEIGHTS -	GLENWOOD	RD)		36+50.00	50.00	16.00	17.00	31.48	0.00	0.00	0.00
			AVERAGE END			AVERAGE END		30+30.00	50.00	10.00	17.00	31.48	0.00	0.00	0.00
STATION	LENGTH (FOOT)	CUT (SQ FT)	AVERAGE END AREA (SQ FT)	TOTAL (CU YD)	FILL (SQ FT)	AVERAGE END AREA (SQ FT)	TOTAL (CU YD)	37+00.00	50.00	18.00	18.00	33.33	0.00	0.00	0.00
CTACE II			(30 11)			(3011)		37+50.00	50.00	18.00	10.00	55.55	0.00	0.00	0.00
STAGE II					0.00						10.80	16.00		0.00	
29+00.00		0.00			0.00			37+90.00	40.00	3.60			0.00	0.00	0.00
	50.00		0.00	0.00		0.00	0.00	37+90.00	40.00	3.60	1.80	0.67	0.00	0.65	
29+00.00 29+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	37+90.00 38+00.00	10.00	3.60	1.80		0.00	0.65	0.00
	50.00		0.00	0.00		0.00	0.00		10.00		1.80 5.85	10.83		0.65	1.20
29+50.00		0.00			0.00			38+00.00 38+50.00	10.00	0.00	1.80		0.00	0.65	1.20
29+50.00 30+00.00 30+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	38+00.00 38+50.00 39+00.00	10.00	0.00 11.70 9.80	1.80 5.85	10.83	1.30 0.00 0.00	0.65	1.20
29+50.00 30+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	38+00.00 38+50.00	10.00 50.00 50.00 50.00	0.00	1.80 5.85 10.75 7.85	10.83 19.91 14.54	0.00	0.65	1.20 1.20 0.00 0.00
29+50.00 30+00.00 30+50.00	50.00 50.00 50.00 19.81	0.00	0.00 0.00 11.60 18.60	0.00 0.00 21.48 13.65	0.00	0.00 0.00 3.45 4.25	0.00 0.00 6.39 3.12	38+00.00 38+50.00 39+00.00	10.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80	1.80 5.85 10.75 7.85 5.75	10.83 19.91 14.54 10.65	1.30 0.00 0.00	0.65	1.20 1.20 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00	50.00 50.00 50.00	0.00 0.00 23.20	0.00	0.00	0.00	0.00	0.00	38+00.00 38+50.00 39+00.00 39+50.00 40+00.00	10.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60	1.80 5.85 10.75 7.85	10.83 19.91 14.54	1.30 0.00 0.00 0.00 0.00	0.65	1.20 1.20 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00	50.00 50.00 50.00 19.81	0.00 0.00 23.20 14.00 0.00	0.00 0.00 11.60 18.60	0.00 0.00 21.48 13.65	0.00 0.00 0.00 6.90 1.60 0.00	0.00 0.00 3.45 4.25	0.00 0.00 6.39 3.12	38+00.00 38+50.00 39+00.00 39+50.00 40+00.00 40+50.00	10.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10	1.80 5.85 10.75 7.85 5.75	10.83 19.91 14.54 10.65	1.30 0.00 0.00 0.00 0.00 0.00	0.65	1.20 1.20 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81	50.00 50.00 50.00 19.81 30.19	0.00 0.00 23.20 14.00	0.00 0.00 11.60 18.60 0.00	0.00 0.00 21.48 13.65 0.00	0.00 0.00 0.00 6.90 1.60	0.00 0.00 3.45 4.25 0.80	0.00 0.00 6.39 3.12 0.89	38+00.00 38+50.00 39+00.00 39+50.00 40+00.00	10.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60	1.80 5.85 10.75 7.85 5.75 5.85 6.00	10.83 19.91 14.54 10.65 10.83 11.11	1.30 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00	50.00 50.00 19.81 30.19 58.22 16.78	0.00 0.00 23.20 14.00 0.00	0.00 0.00 11.60 18.60 0.00 0.00 2.85	0.00 0.00 21.48 13.65 0.00 0.00 1.77	0.00 0.00 0.00 6.90 1.60 0.00	0.00 0.00 3.45 4.25 0.80 0.00 1.55	0.00 0.00 6.39 3.12 0.89 0.00 0.96	38+00.00 38+50.00 39+00.00 39+50.00 40+00.00 40+50.00	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85	10.83 19.91 14.54 10.65 10.83 11.11 10.83	1.30 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22	50.00 50.00 19.81 30.19 58.22	0.00 0.00 23.20 14.00 0.00 0.00	0.00 0.00 11.60 18.60 0.00 0.00	0.00 0.00 21.48 13.65 0.00 0.00	0.00 0.00 0.00 6.90 1.60 0.00 0.00	0.00 0.00 3.45 4.25 0.80 0.00	0.00 0.00 6.39 3.12 0.89 0.00	38+00.00 38+50.00 39+00.00 39+50.00 40+00.00 40+50.00 41+00.00 41+50.00	10.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.90 5.80	1.80 5.85 10.75 7.85 5.75 5.85 6.00	10.83 19.91 14.54 10.65 10.83 11.11	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22 32+25.00 32+50.00	50.00 50.00 19.81 30.19 58.22 16.78	0.00 0.00 23.20 14.00 0.00 5.70 0.00	0.00 0.00 11.60 18.60 0.00 0.00 2.85	0.00 0.00 21.48 13.65 0.00 0.00 1.77	0.00 0.00 0.00 6.90 1.60 0.00 3.10 12.80	0.00 0.00 3.45 4.25 0.80 0.00 1.55	0.00 0.00 6.39 3.12 0.89 0.00 0.96	38+00.00 $38+50.00$ $39+00.00$ $39+50.00$ $40+00.00$ $40+50.00$ $41+00.00$ $41+50.00$ $42+00.00$	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.90 5.80 5.60	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85	10.83 19.91 14.54 10.65 10.83 11.11 10.83	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22 32+25.00	50.00 50.00 19.81 30.19 58.22 16.78 25.00	0.00 0.00 23.20 14.00 0.00 0.00 5.70	0.00 0.00 11.60 18.60 0.00 0.00 2.85 2.85	0.00 0.00 21.48 13.65 0.00 0.00 1.77 2.64	0.00 0.00 0.00 6.90 1.60 0.00 0.00 3.10	0.00 0.00 3.45 4.25 0.80 0.00 1.55 7.95	0.00 0.00 6.39 3.12 0.89 0.00 0.96 7.36	38+00.00 38+50.00 39+00.00 39+50.00 40+00.00 40+50.00 41+00.00 41+50.00	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.90 5.80	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85 5.70 5.95	10.83 19.91 14.54 10.65 10.83 11.11 10.83 10.56 11.02	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22 32+25.00 32+50.00	50.00 50.00 50.00 19.81 30.19 58.22 16.78 25.00 50.00 50.00	0.00 0.00 23.20 14.00 0.00 5.70 0.00	0.00 0.00 11.60 18.60 0.00 0.00 2.85 2.85 0.10 0.90	0.00 0.00 21.48 13.65 0.00 0.00 1.77 2.64 0.19 1.67	0.00 0.00 0.00 6.90 1.60 0.00 3.10 12.80	0.00 0.00 3.45 4.25 0.80 0.00 1.55 7.95 9.20 4.00	0.00 0.00 6.39 3.12 0.89 0.00 0.96 7.36 17.04 7.41	38+00.00 $38+50.00$ $39+00.00$ $39+50.00$ $40+00.00$ $40+50.00$ $41+00.00$ $41+50.00$ $42+00.00$	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.90 5.80 5.60	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85 5.70 5.95 6.00	10.83 19.91 14.54 10.65 10.83 11.11 10.83 10.56 11.02 11.11	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22 32+25.00 32+50.00 33+00.00	50.00 50.00 19.81 30.19 58.22 16.78 25.00 50.00	0.00 0.00 23.20 14.00 0.00 5.70 0.00 0.20	0.00 0.00 11.60 18.60 0.00 2.85 2.85 0.10	0.00 0.00 21.48 13.65 0.00 0.00 1.77 2.64 0.19	0.00 0.00 0.00 6.90 1.60 0.00 0.00 3.10 12.80 5.60	0.00 0.00 3.45 4.25 0.80 0.00 1.55 7.95 9.20	0.00 0.00 6.39 3.12 0.89 0.00 0.96 7.36 17.04	38+00.00 $38+50.00$ $39+00.00$ $39+50.00$ $40+00.00$ $40+50.00$ $41+00.00$ $41+50.00$ $42+00.00$ $42+50.00$ $43+00.00$	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.80 5.60 5.60 6.30 5.70	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85 5.70 5.95	10.83 19.91 14.54 10.65 10.83 11.11 10.83 10.56 11.02	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22 32+25.00 32+50.00 33+50.00 34+00.00	50.00 50.00 50.00 19.81 30.19 58.22 16.78 25.00 50.00 50.00	0.00 0.00 23.20 14.00 0.00 0.00 5.70 0.00 0.20 1.60 0.00	0.00 0.00 11.60 18.60 0.00 0.00 2.85 2.85 0.10 0.90	0.00 0.00 21.48 13.65 0.00 0.00 1.77 2.64 0.19 1.67	0.00 0.00 0.00 6.90 1.60 0.00 0.00 3.10 12.80 5.60 2.40 4.70	0.00 0.00 3.45 4.25 0.80 0.00 1.55 7.95 9.20 4.00	0.00 0.00 6.39 3.12 0.89 0.00 0.96 7.36 17.04 7.41	38+00.00 $38+50.00$ $39+00.00$ $39+50.00$ $40+00.00$ $40+50.00$ $41+00.00$ $41+50.00$ $42+00.00$ $42+50.00$ $43+00.00$ $43+50.00$	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.90 5.80 5.60 5.60 5.70 5.60	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85 5.70 5.95 6.00	10.83 19.91 14.54 10.65 10.83 11.11 10.83 10.56 11.02 11.11	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22 32+25.00 32+50.00 33+50.00	50.00 50.00 50.00 19.81 30.19 58.22 16.78 25.00 50.00 50.00	0.00 0.00 0.00 23.20 14.00 0.00 0.00 5.70 0.00 0.20 1.60	0.00 0.00 11.60 18.60 0.00 2.85 2.85 0.10 0.90 0.80	0.00 0.00 21.48 13.65 0.00 0.00 1.77 2.64 0.19 1.67 1.48	0.00 0.00 0.00 6.90 1.60 0.00 3.10 12.80 5.60 2.40	0.00 0.00 3.45 4.25 0.80 0.00 1.55 7.95 9.20 4.00 3.55	0.00 0.00 6.39 3.12 0.89 0.00 0.96 7.36 17.04 7.41 6.57	38+00.00 $38+50.00$ $39+00.00$ $39+50.00$ $40+00.00$ $40+50.00$ $41+00.00$ $41+50.00$ $42+00.00$ $42+50.00$ $43+00.00$	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.80 5.60 5.60 6.30 5.70	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85 5.70 5.95 6.00 5.65 4.30	10.83 19.91 14.54 10.65 10.83 11.11 10.83 10.56 11.02 11.11 10.46 7.96	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22 32+25.00 32+50.00 33+50.00 34+00.00	50.00 50.00 50.00 19.81 30.19 58.22 16.78 25.00 50.00 50.00 50.00 50.00	0.00 0.00 23.20 14.00 0.00 0.00 5.70 0.00 0.20 1.60 0.00	0.00 0.00 11.60 18.60 0.00 0.00 2.85 2.85 0.10 0.90 0.80 0.00	0.00 0.00 21.48 13.65 0.00 0.00 1.77 2.64 0.19 1.67 1.48 0.00	0.00 0.00 0.00 6.90 1.60 0.00 0.00 3.10 12.80 5.60 2.40 4.70	0.00 0.00 3.45 4.25 0.80 0.00 1.55 7.95 9.20 4.00 3.55 2.35	0.00 0.00 6.39 3.12 0.89 0.00 0.96 7.36 17.04 7.41 6.57 4.35	38+00.00 $38+50.00$ $39+00.00$ $39+50.00$ $40+00.00$ $40+50.00$ $41+00.00$ $41+50.00$ $42+00.00$ $42+50.00$ $43+00.00$ $43+50.00$	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.90 5.80 5.60 5.60 5.70 5.60	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85 5.70 5.95 6.00 5.65	10.83 19.91 14.54 10.65 10.83 11.11 10.83 10.56 11.02 11.11 10.46	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00
29+50.00 30+00.00 30+50.00 31+00.00 31+19.81 31+50.00 32+08.22 32+25.00 33+00.00 33+50.00 34+50.00	50.00 50.00 19.81 30.19 58.22 16.78 25.00 50.00 50.00 50.00	0.00 0.00 0.00 23.20 14.00 0.00 0.00 0.20 1.60 0.00 0.00	0.00 0.00 11.60 18.60 0.00 0.00 2.85 2.85 0.10 0.90 0.80 0.00	0.00 0.00 21.48 13.65 0.00 0.00 1.77 2.64 0.19 1.67 1.48 0.00	0.00 0.00 0.00 6.90 1.60 0.00 3.10 12.80 5.60 2.40 4.70 0.00	0.00 0.00 3.45 4.25 0.80 0.00 1.55 7.95 9.20 4.00 3.55 2.35	0.00 0.00 6.39 3.12 0.89 0.00 0.96 7.36 17.04 7.41 6.57 4.35	38+00.00 $38+50.00$ $39+00.00$ $39+50.00$ $40+00.00$ $40+50.00$ $41+00.00$ $41+50.00$ $42+00.00$ $42+50.00$ $43+00.00$ $43+50.00$ $44+00.00$	10.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	0.00 11.70 9.80 5.90 5.60 6.10 5.80 5.80 5.60 6.30 5.70 5.60 4.30	1.80 5.85 10.75 7.85 5.75 5.85 6.00 5.85 5.70 5.95 6.00 5.65 4.30	10.83 19.91 14.54 10.65 10.83 11.11 10.83 10.56 11.02 11.11 10.46 7.96	1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.20 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

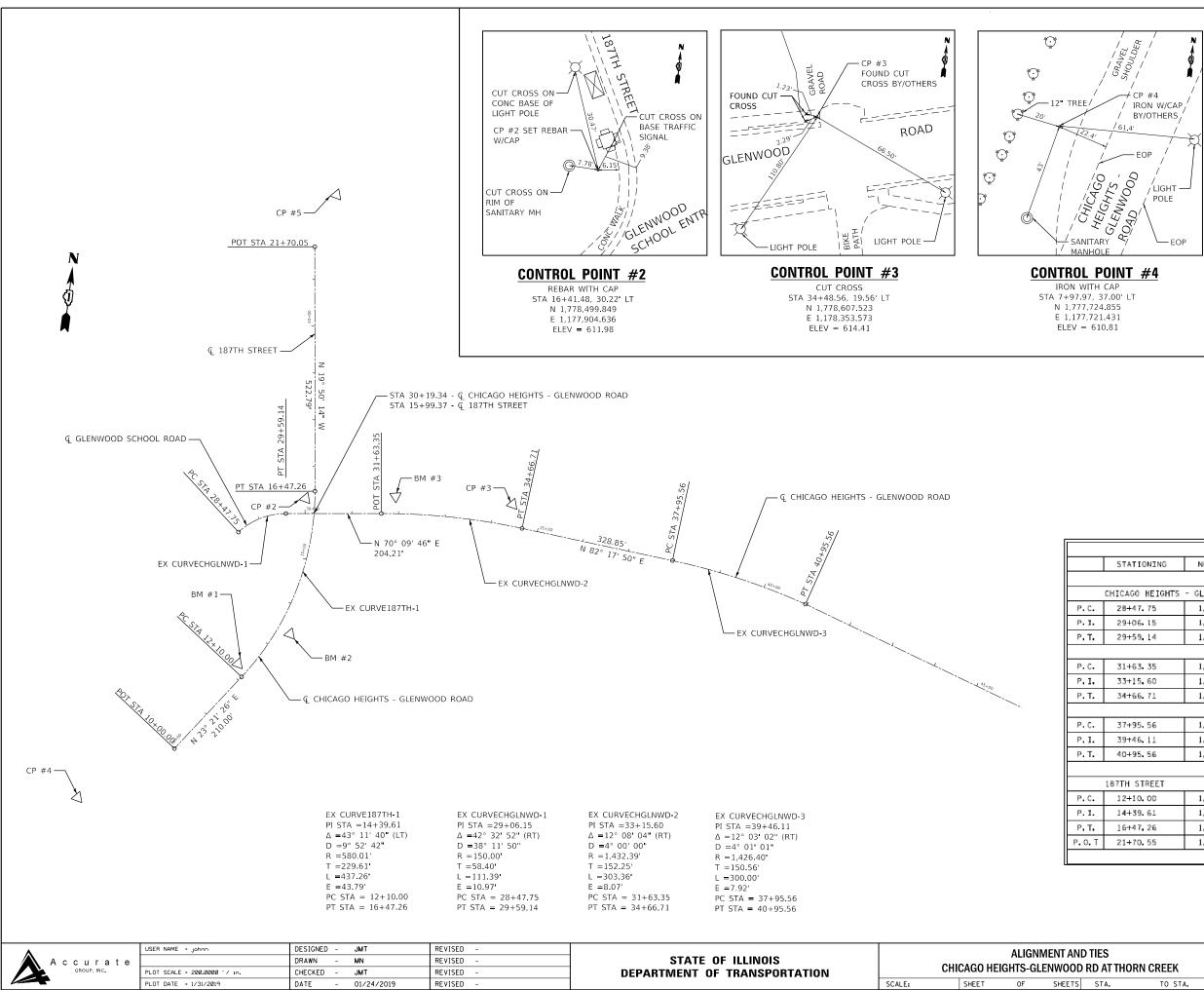
ineering\LiveProjects\13040.IDDT DUR HBM\Work Order 12\CADD\CADD Sheets\Civil\D160N21-sht-sc

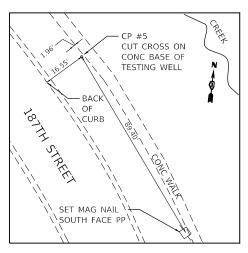
		AGGREGA	TE SCHEDULE	
STATION	STATION	SUBBABSE GRANULAR MATERIAL, TYPE B 6" (SQ YD)	AGGREGATE BASE COURSE, TYPE B 4" (SQ YD)	AGGREGATE BASE COURSE, TYPE B 6" (SQ YD)
CHICAGO H	EIGHTS - GI	ENWOOD ROAD		
30+40	30+98		79	
30+58	30+82		33	
32+28	34+50		158	
32+28	3450		196	
40+98				8
41+95	42+04		11	
43+01				52
UNDER COL CURB AND		506		
TOTAL		506	477	59

			PAVEMENT	PAVEMENT	TEMPORARY
				MARKING TAPE.	
STATION	STATION	TYPE	TYPE IV, 4"	· · · · · · · · · · · · · · · · · · ·	MARKING REMOVA
			(FOOT)	(FOOT)	(SQ FT)
CHICAGO H	HEIGHTS -	GLENWOOD ROAD			
PRE STAG	E				
29+72	30+92	DOUBLE YELLOW	119		
30+56	33+82	SOLID WHITE	348	19	
30+92	35+48	DOUBLE YELLOW	459		
STAGE I					
29+73	30+80	2' DASH-6' SKIP YELLOW	105		
30+80	35+47	DOUBLE YELLOW	468	11	276
30+46	32+90	SOLID WHITE	263		
31+11	33+74	SOLID WHITE	343		
STAGE II					
12+06	15+72	SOLID WHITE	377		
29+79	30+78	2' DASH-6' SKIP YELLOW	105	29	238
30+78	35+48	DOUBLE YELLOW	474		
30+32	32+58	SOLID WHITE	249		
STAGE III					
15+21	15+97	SOLID WHITE	127		
30+91	35+49	DOUBLE YELLOW	458	41	453
30+41	35+48	SOLID WHITE	540		
TOTAL			6620	200	967

	SUM	MARY OF EARTH WO	DRK SCHEDULE	
		EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE(-)
CHICAGO H	EIGHTS - GLENWOO	DD RD		
PRE-STAGE	85	72	0	72
STAGE I	419	356	46	310
STAGE II	43	36	54	-18
ROUNDED TOTAL	547	464	100	364

SC	CHEDULE	E OF QUANT	rities - III		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
) HEI	IGHTS-GI			RN CREEK	3603	2010-141-B	СООК	114	13
	umo-u						CONTRACT	NO.	60N21
T	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





### **CONTROL POINT #5** CUT CROSS STA 22+95.19, 33.00' RT N 1,779,130.119 E 1,177,725.350

ELEV = 610.36

# BENCHMARKS

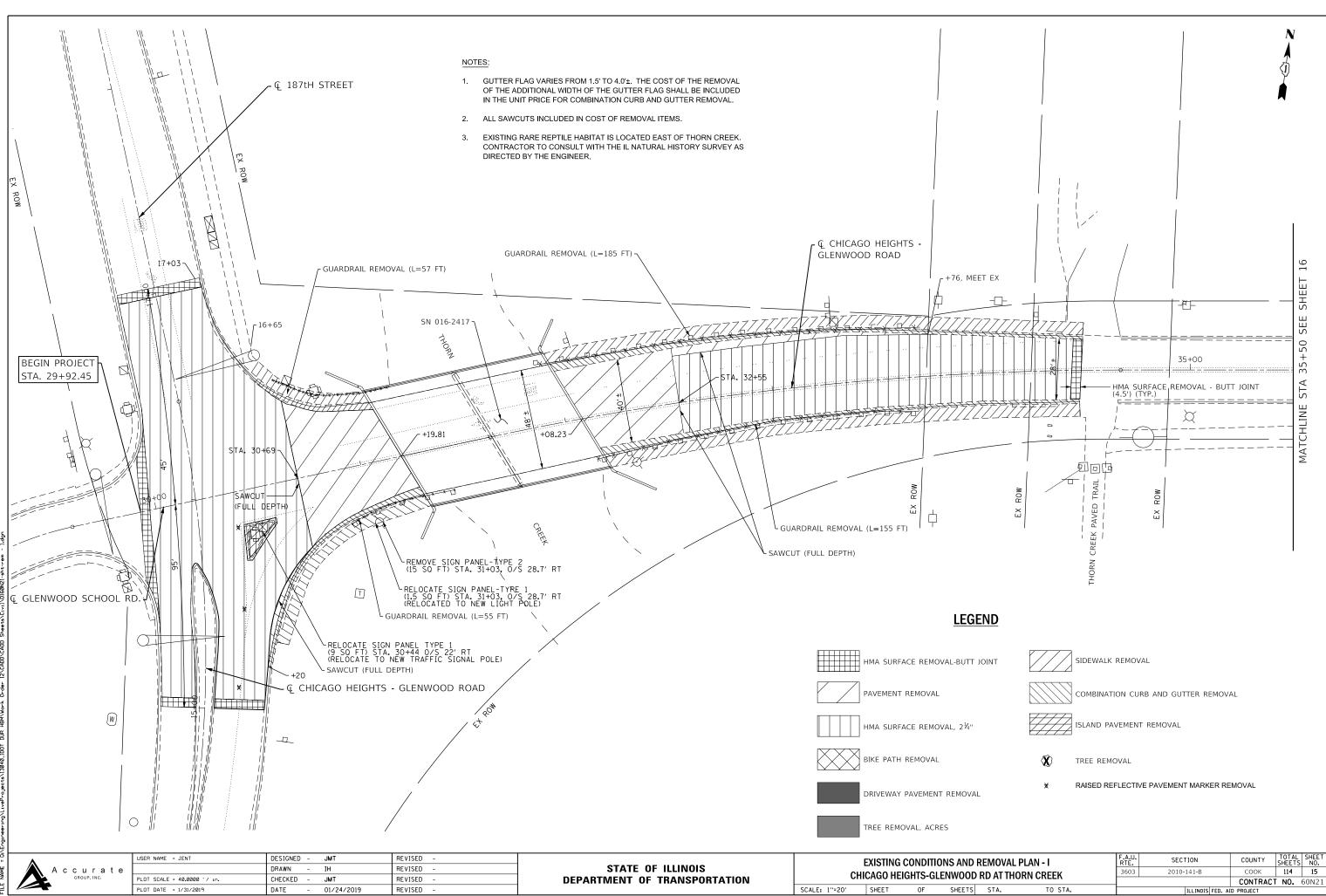
BM #1 ELEV 611.77 STA 12+25.55, 24.50 LT "BOX" ON E'LY LIGHT POLE FOUND 3RD SW'LY OF INTERSECTION (A 21)

BM #2 ELEV 612.93 STA 13+42.30, 28.76' RT "X" ON HANDHOLE

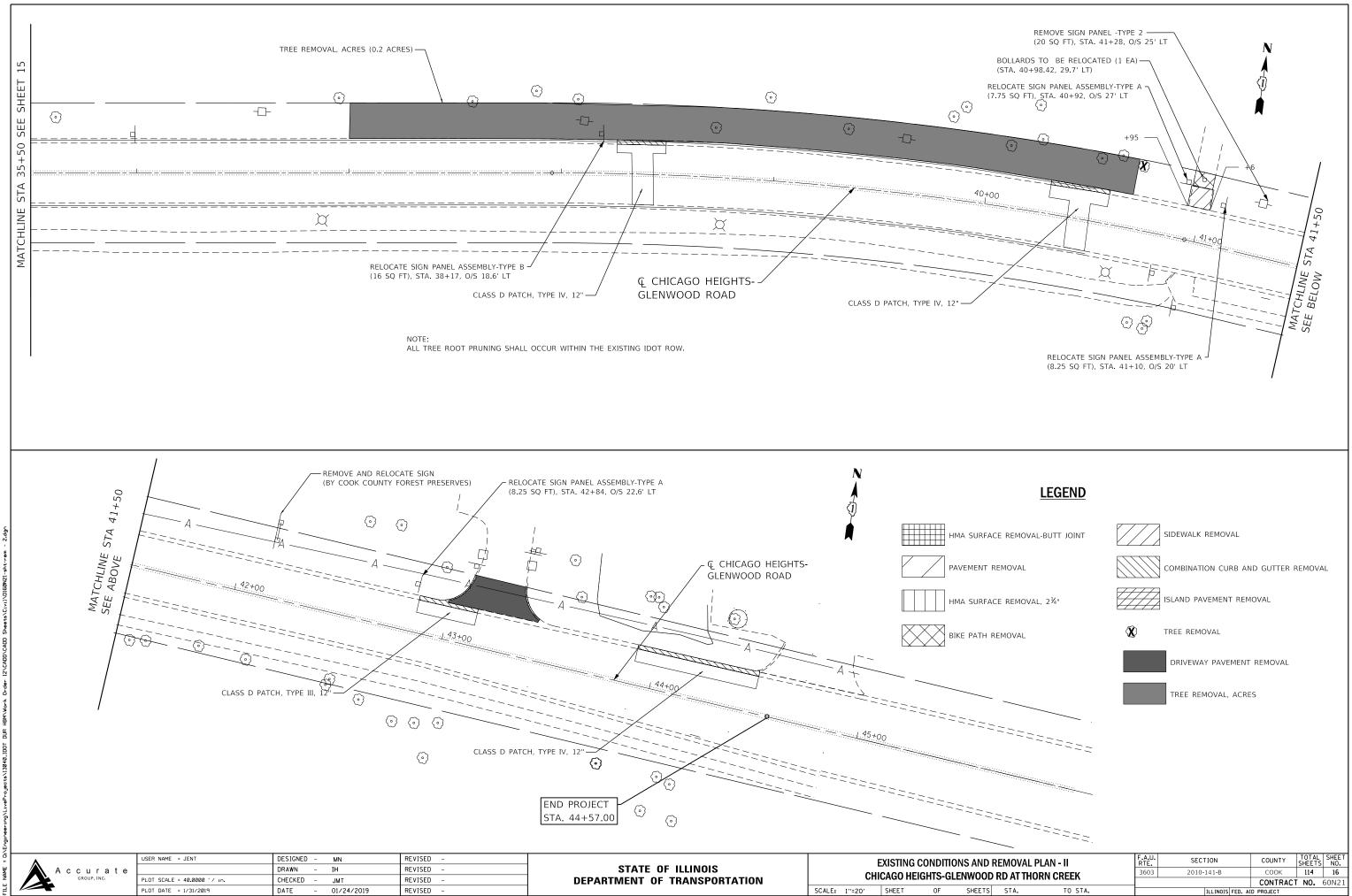
BM #3 ELEV 613.20 STA 31+95.99, 37.44' LT "BOX" ON NE'LY CONC HEADWALL

		ALIGNME	NT DATA	
	STATIONING	NORTHING	EASTING	REMARKS
	CHICAGO HEIGHTS	- GLENWOOD ROAD		
Ρ.C.	28+47.75	1, 778, 377. 88	1,177,806.87	CURVE CHGLNWD-1
P.I.	29+06.15	1, 778, 429. 63	1,177,833.94	
Р. Т.	29+59.14	1, 778, 449, 45	1,177,888.88	
Р.С.	31+63.35	1,778,518.75	1,178,080.97	CURVE CHGLNWD-2
Ρ.Ι.	33+15 60	1,778,570,41	1,178,224,18	
Р.Т.	34+66.7 <u>1</u>	1,778,590.82	1,178,375.06	
Р.С.	37+95.56	1,778,634.90	1,178,700.94	CURVE CHGLNWD-3
Ρ.Ι.	39+46.11	1,778,655.08	1,178,850.13	
Р. Т.	40+95.56	1,778,643.66	1,179,000.26	
	187TH STREET			
Ρ.C.	12+10.00	1, 778, 088. 77	1,177,918.01	CURVE 187TH-1
P.I.	14+39.61	1, 778, 299. 56	1,178,009.05	
Р. Т.	16+47.26	1,778,515,55	1,177,931.13	
P. O. T	21+70.55	1, 779, 007. 31	1, 177, 753. 72	
		-		

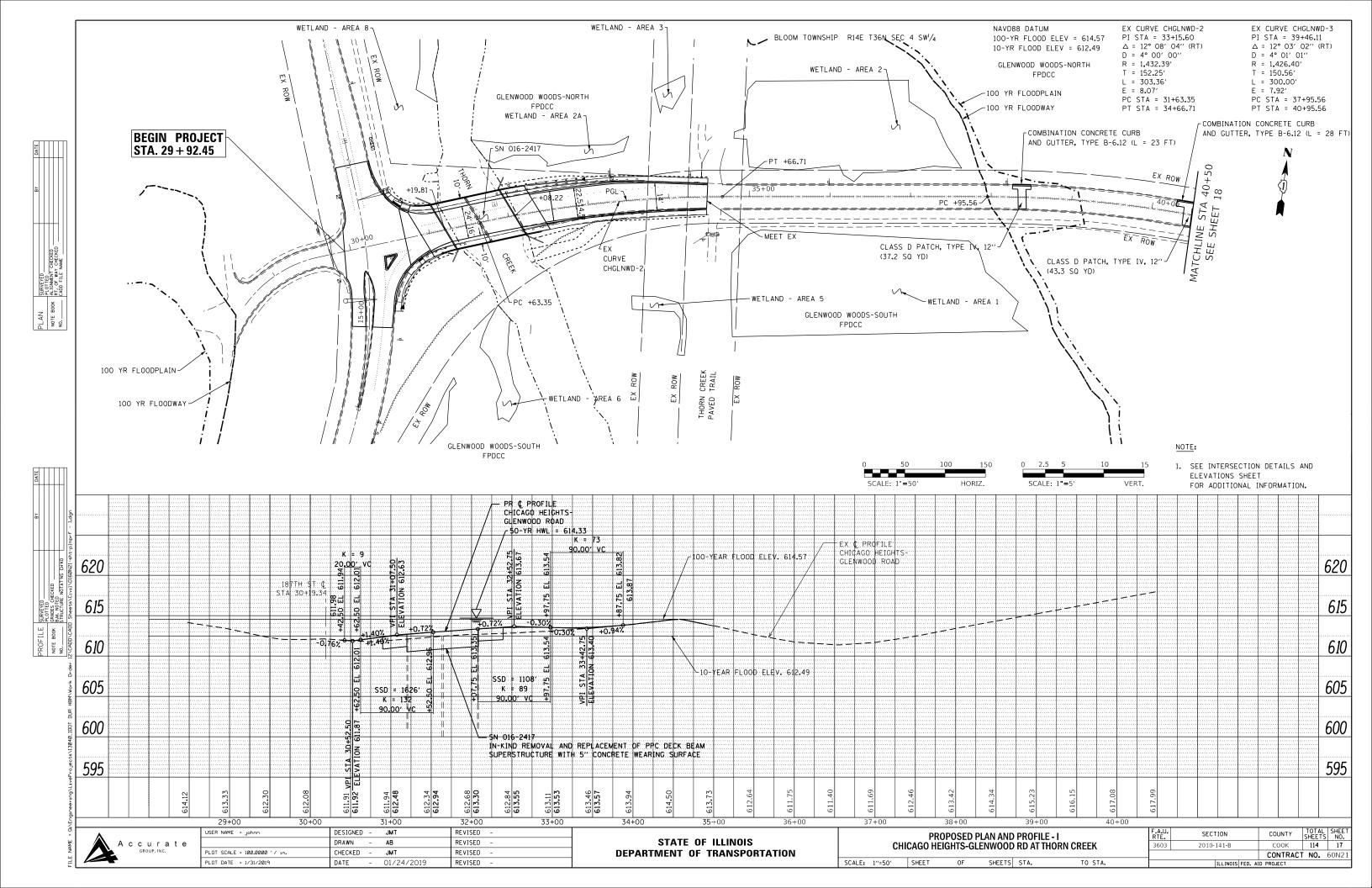
ND TIES	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
D RD AT THORN CREEK	3603	2010-141-B	соок	114	14		
			CONTRACT	ΓNΟ.	60N21		
S STA. TO STA.	ILLINOIS FED. AID PROJECT						

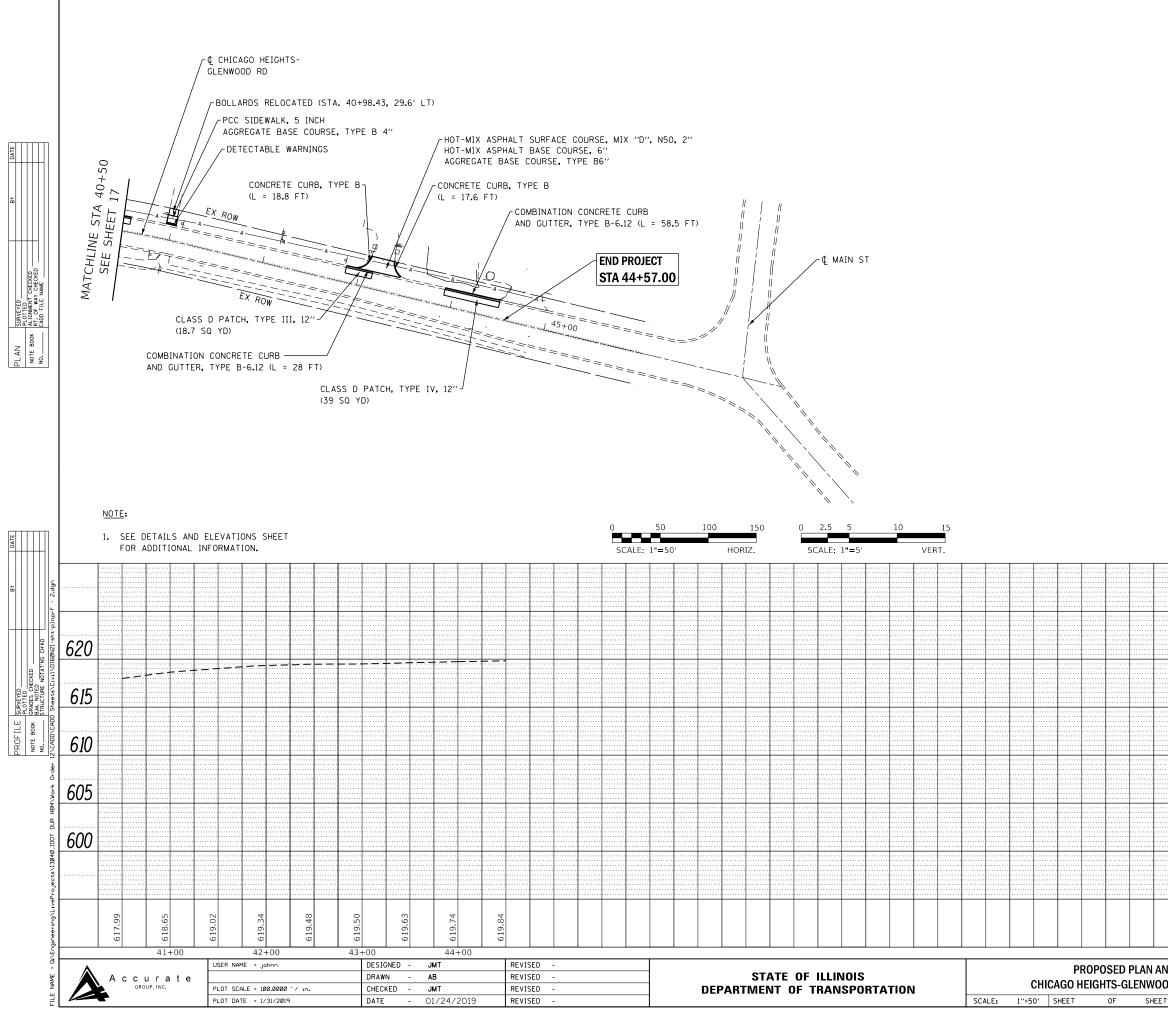


D REMOVAL PLAN - I		RTE.	SECTION	COUNTY	SHEETS	NO.	
DD RD AT THORN CREEK			3603	2010-141-B	соок	114	15
			_		CONTRACT	NO.	60N21
٢S	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		
-							



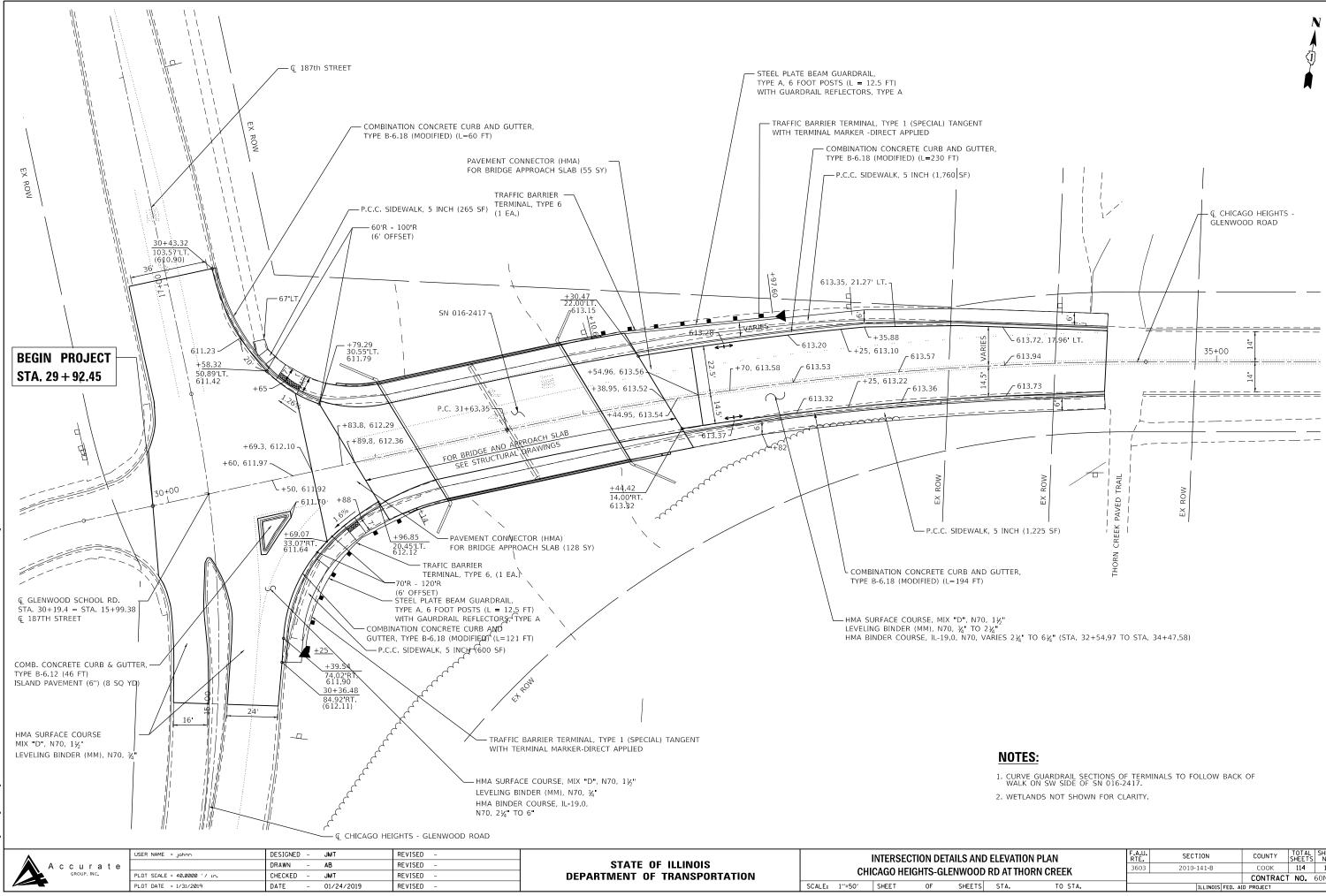
סמ	) RD ΔΤ ΤΗ(	ORN CREEK	5005	2010-141-В		COOK	114	10
		SILLER				CONTRACT	' NO.	60N2
ETS	STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		





OD RD AT THORN CREEK								 1	LLINOIS	FED. A		ECT	I NU.	60N21
				REEK		3	603	2010-1	41-B		COOK 11 CONTRACT N			18
٧D	PROF	ILE -	11			 F. R	A.U. TE.	SECT				JNTY	TOTA	
						 		 						600
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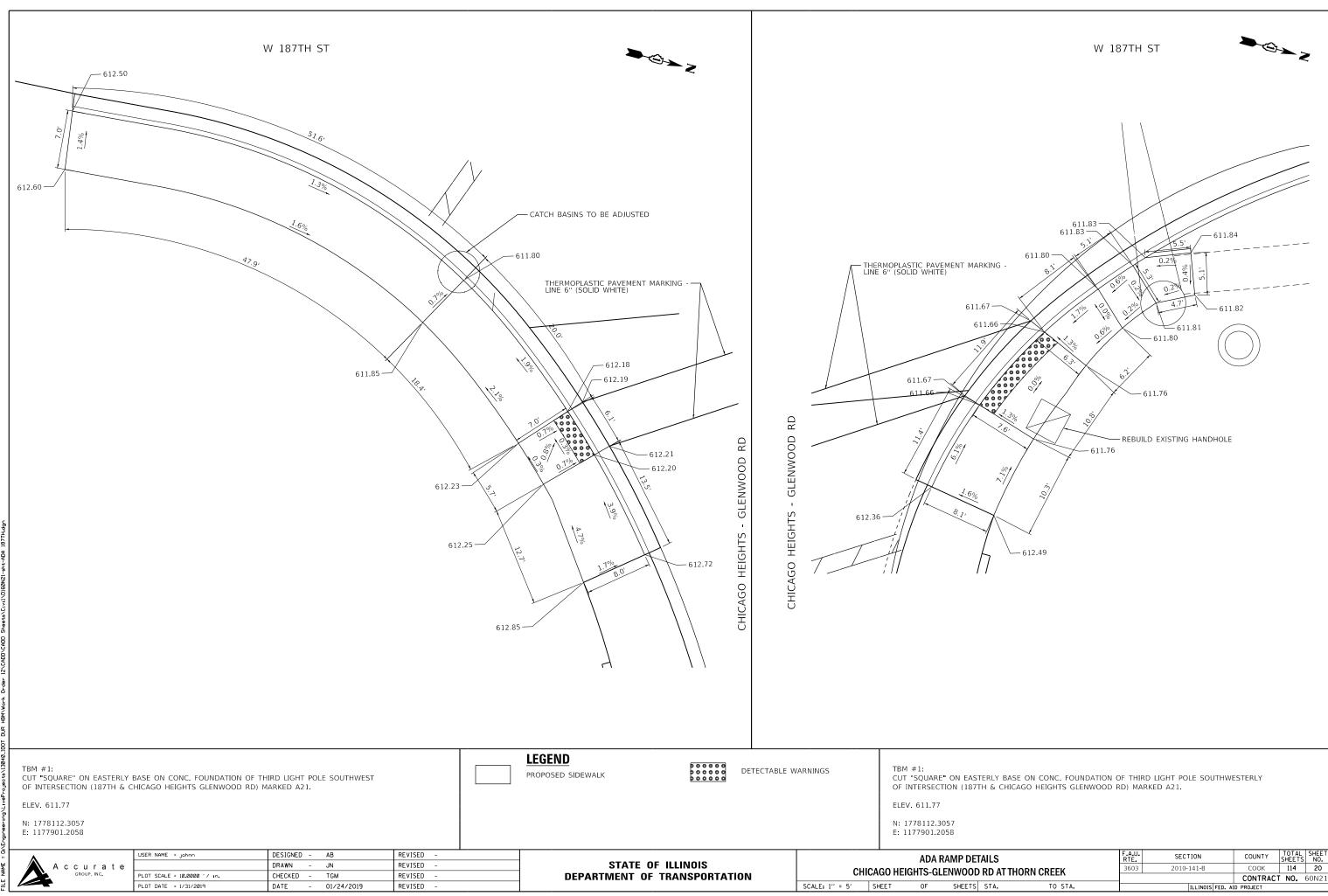








F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
3603	2010-141-B	СООК	114	19				
		CONTRACT	NO.	60N21				
	ILLINOIS FED. AID PROJECT							
	RTE.	RTE.         SECTION           3603         2010-141-B	RTE.         SECTION         COUNTY           3603         2010-141-B         COOK           CONTRACT         CONTRACT	RTE.         SECTION         COUNT         SHEETS           3603         2010-141-B         COOK         114           CONTRACT         NO.				







TAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
RD AT THORN CREEK	3603	2010-141-B	СООК	114	20			
			CONTRACT	NO.	60N21			
STA. TO STA.	ILLINOIS FED. AID PROJECT							

## **TRAFFIC CONTROL GENERAL NOTES**

- THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN 1. THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
- 2. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES
- 3. DRUMS OR TYPE II BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 50 FEET CENTER TO CENTER IN TANGENTS, 20 FEET CENTER TO CENTER IN TAPERS, AND 10 FEET CENTER TO CENTER IN RADII IN THE CONSTRUCTION WORK ZONE.
- 4. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION. 5
- 6. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES FOR THE INITIAL PLACEMENT AND A ONE-TIME REPLACEMENT HAVE BEEN PROVIDED FOR EACH STAGE. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO 7 DAYS OF SERVICE OR REPLACEMENT AFTER THE INITIAL REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS 8. COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" x 6" DELINEATOR INSTALLED. COST OF THE DELINEATOR IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- WORK ZONE SPEED LIMIT SHALL BE 30 MPH ON CHICAGO HEIGHTS GLENWOOD ROAD. 9.
- 10. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
- 11. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
- 12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.
- 13. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, CORY JUCIUS (CORY.JUCIUS@ILLINOIS.GOV), A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 14. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL AS SHOWN IN PLANS. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL - WATER BLASTING.
- 15. TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS INDICATED IN THE PLANS. FURNISHING, AND INSTALLING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER
- 16. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION.
- 17. TEMPORARY CONCRETE BARRIER WALL SHALL BE CONTINUOUSLY PINNED TO THE PAVEMENT IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WHERE A 3.5 FOOT CLEAR ZONE FREE FROM DROP-OFFS, FIXED OBJECTS, OR OTHER OBSTACLES CANNOT BE PROVIDED BEHIND THE WALL.
- 18. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAVEMENT MARKING TAPE, TYPE IV, UNLESS OTHERWISE NOTED.
- 19. REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHALL BE PAID FOR AS TEMPORARY PAVEMENT MARKING REMOVAL.
- 20. A MONO-DIRECTIONAL FLASHING AMBER BEACON SHALL BE MOUNTED ON THE FIRST TWO WARNING SIGNS ON EACH APPROACH DURING HOURS OF DARKNESS.
- 21. THE CONTRACTOR SHALL NOT MOUNT SIGNS ON EXISTING SIGNS.
- 22. CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ADJACENT PROPERTIES THROUGHOUT THE CONSTRUCTION.
- 23. THE CONTRACTOR SHALL PLACE ONE (1) CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH APPROPRIATE INFORMATION SHALL BE PLACED TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY, "CHANGEABLE MESSAGE SIGN"

## SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED, VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINNER.

PROVIDE TRAFFIC CONTROL AS SHOWN ON THE SUGGESTED MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT.

### PRE-STAGE - CONSTRUCTION

- 1. INSTALL TEMPORARY TRAFFIC SIGNALS. LOWER HANDHOLE. PLACE TEMPORARY PAVEMENT INSTALL PROPOSED CATCH BASINS, STORM SEWERS,
- ALONG EB LANE, REMOVE EXISTING SIDEWALK CURB AND GUTTER 2 REMOVE SOUTH BRIDGE SIDEWALK AND PARAPET.
- PLACE REMAINDER OF PAVEMENT MARKING TAPE TYPE IV AND 3 CONCRETE BARRIER AS SHOWN IN PRE-STAGE STAGING PLAN.

### PRE-STAGE - MAINTENANCE OF TRAFFIC

- 1. USE DAILY LANE CLOSURE HIGHWAY STANDARD 701502 TO CLOSE OUTSIDE E.B. LANE.
- USE HIGHWAY STANDARD 701801 TO PERMANENTLY CLOSE SIDEWALK. PLACE PAVEMENT MARKING TAPE, TYPE IV AND TEMPORARY CONCRETE BARRIER AS PER PRE-STAGE STAGING PLAN.
- USE HIGHWAY STANDARD 701502 FOR LANE CLOSURES TO INSTALL PAVEMENT з. MARKING, TAPE, TYPE IV AND TEMPORARY CONCRETE BARRIER FOR STAGE I TRAFFIC.

### STAGE I - CONSTRUCTION

- PLACE CLASS D PATCHES.
- 3. BEAMS.
- PLACE 5" CONCRETE OVERLAY.
- CONSTRUCT NORTH PORTIONS OF APPROACH PAVEMENT AND FLEXIBLE CONNECTOR PAVEMENT.
- REMOVE CURB AND GUTTER, SIDEWALK AND GUARDRAIL
- PAVEMENT MARKING TAPE, TYPE IV AS SHOWN IN STAGE II STAGING PLAN.

### STAGE I - MAINTENANCE OF TRAFFIC

- 1. USE HIGHWAY STANDARD 701501 TO INSTALL CLASS D PATCHES.
- 1. MAINTAIN TRAFFIC AS SHOWN IN STAGE I SUGGESTED STAGING PLANS. PERMANENTLY CLOSE SIDEWALK ALONG WESTBOUND LANES

### STAGE II - CONSTRUCTION

- PLACE 5" CONCRETE OVERLAY, SIDEWALK AND PARAPET ON BRIDGE.
- CONSTRUCT CURB AND GUTTER. SIDEWALK AND GUARDRAIL REINSTALL ROADWAY LIGHTING

### STAGE II - MAINTENANCE OF TRAFFIC

MAINTAIN TRAFFIC AS SHOWN IN STAGE II SUGGESTED STAGING PLANS. CLOSE NB CHICAGO HEIGHTS - GLENWOOD ROAD RIGHT TURN LANE.

### STAGE III - CONSTRUCTION

- 1. ALONG ROADWAY REMOVE TEMPORARY PAVEMENT AND PLACE CURB AND GUTTER.
- SIDEWALK AND GUARDRAIL
- REINSTALL TRAFFIC SIGNAL POST
- 4
  - STAGE III MAINTENANCE OF TRAFFIC
- 1 2.

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REMOVE TRAFFIC SIGNAL POST FROM SE ISLAND ON 187TH STREET, REMOVE FOUNDATION AND

INSTALL STORM SEWER AND PRECAST BOX CULVERT ON NORTH SIDE OF GLENWOOD RD.

ON NORTH SIDE OF BRIDGE, REMOVE 8 DECK BEAMS AND PLACE 7 NEW DECK

PLACE TEMPORARY PAVEMENT AND HMA RAMPS FOR STAGE II TRAFFIC. AT THE END OF STAGE I. RELOCATE TEMPORARY CONCRETE BARRIER AND

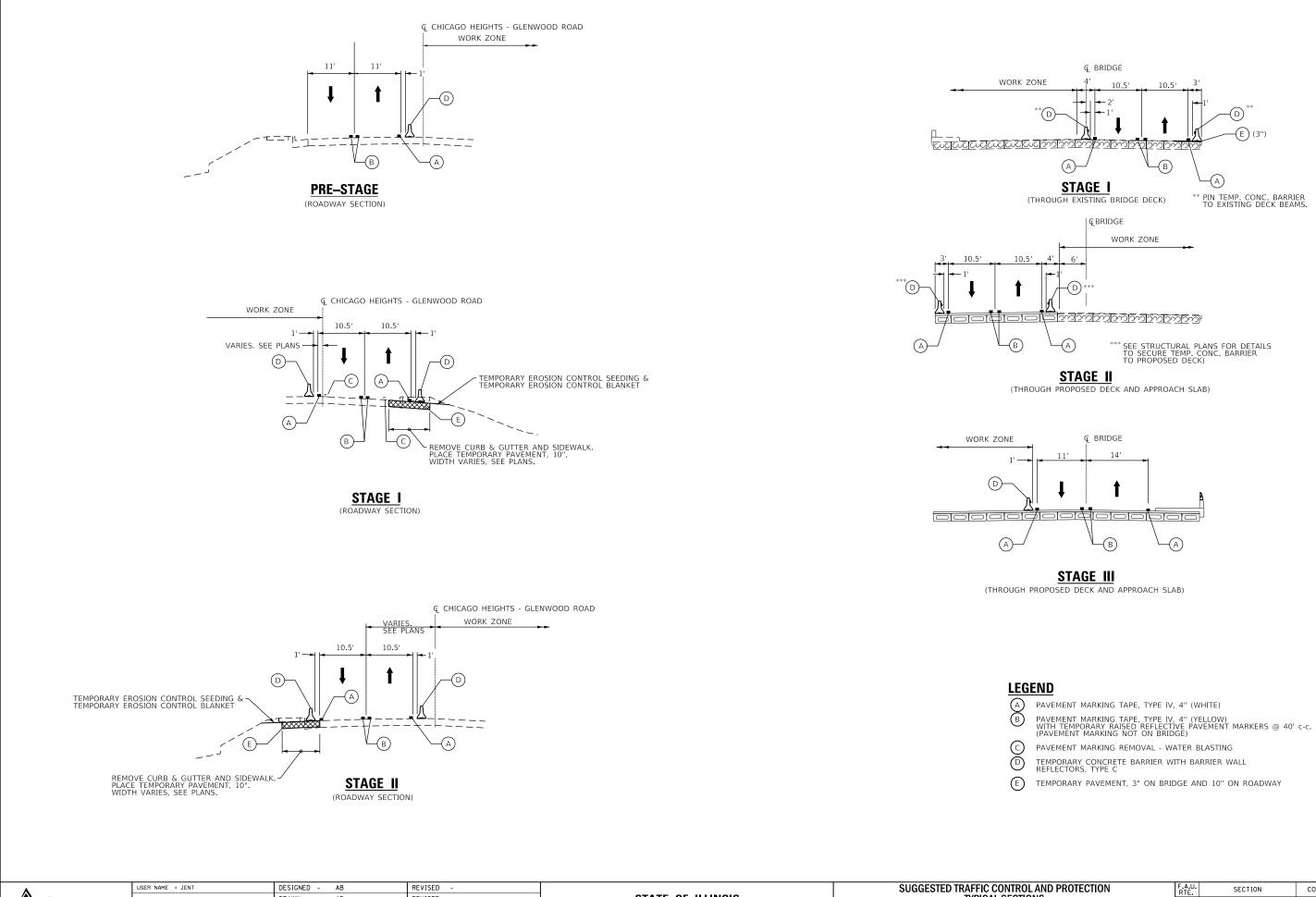
ON SOUTH SIDE OF BRIDGE, REMOVE 7 DECK BEAMS AND PLACE 8 NEW DECK BEAMS.

ALONG WB EDGE OF PAVEMENT, ON BRIDGE, PLACE SIDEWALK AND PARAPET.

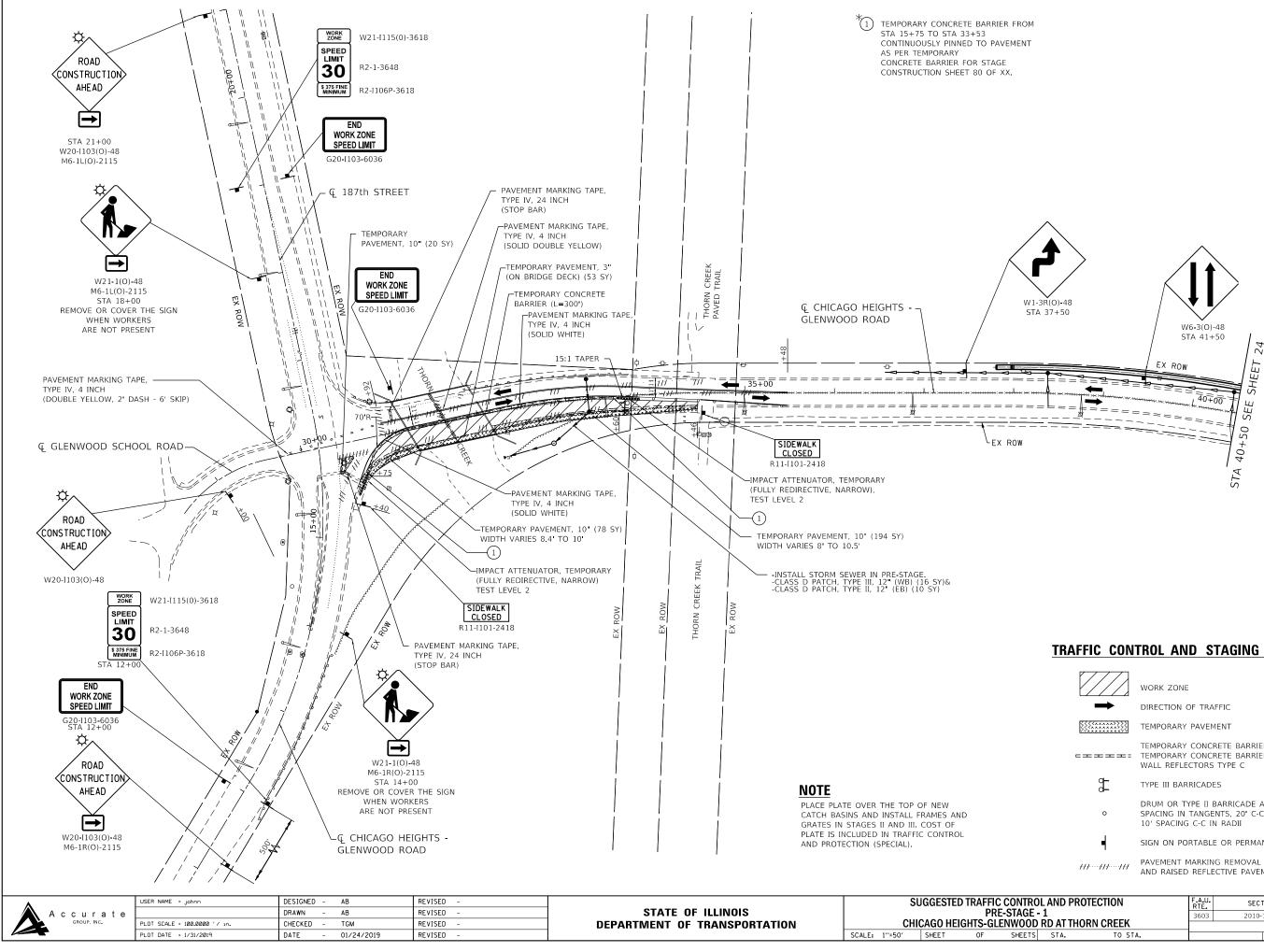
REPLACE ISLAND IN S.E. QUADRANT, ADJUST HANDHOLE TO FINISH GRADE AND

RESURFACE PAVEMENT AND PLACE FINAL STRIPING AND SIGNAGE.

MAINTAIN TRAFFIC AS SHOWN IN STAGE III SUGGESTED STAGING PLANS USE STD. 701502 AND 701701 FOR DAILY LANE CLOSURES



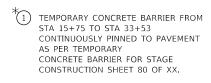
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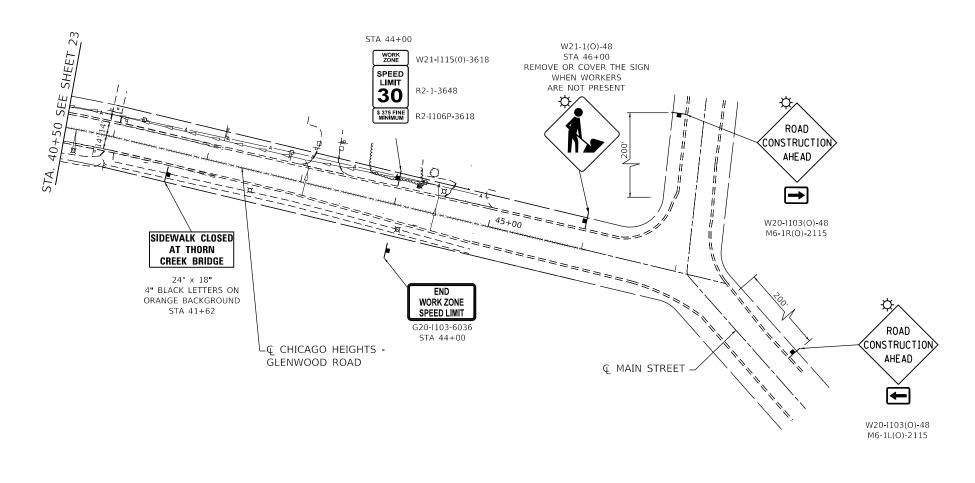


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$\rightarrow$	DIRECTION OF TRAFFIC
	TEMPORARY PAVEMENT
	TEMPORARY CONCRETE BARRIER/RELOCATE TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS TYPE C
5	TYPE III BARRICADES
0	DRUM OR TYPE II BARRICADE AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS, 10' SPACING C-C IN RADII
•	SIGN ON PORTABLE OR PERMANENT SUPPORT
++++++	PAVEMENT MARKING REMOVAL - WATER BLASTING AND RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL

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ROL AND PROTECTION	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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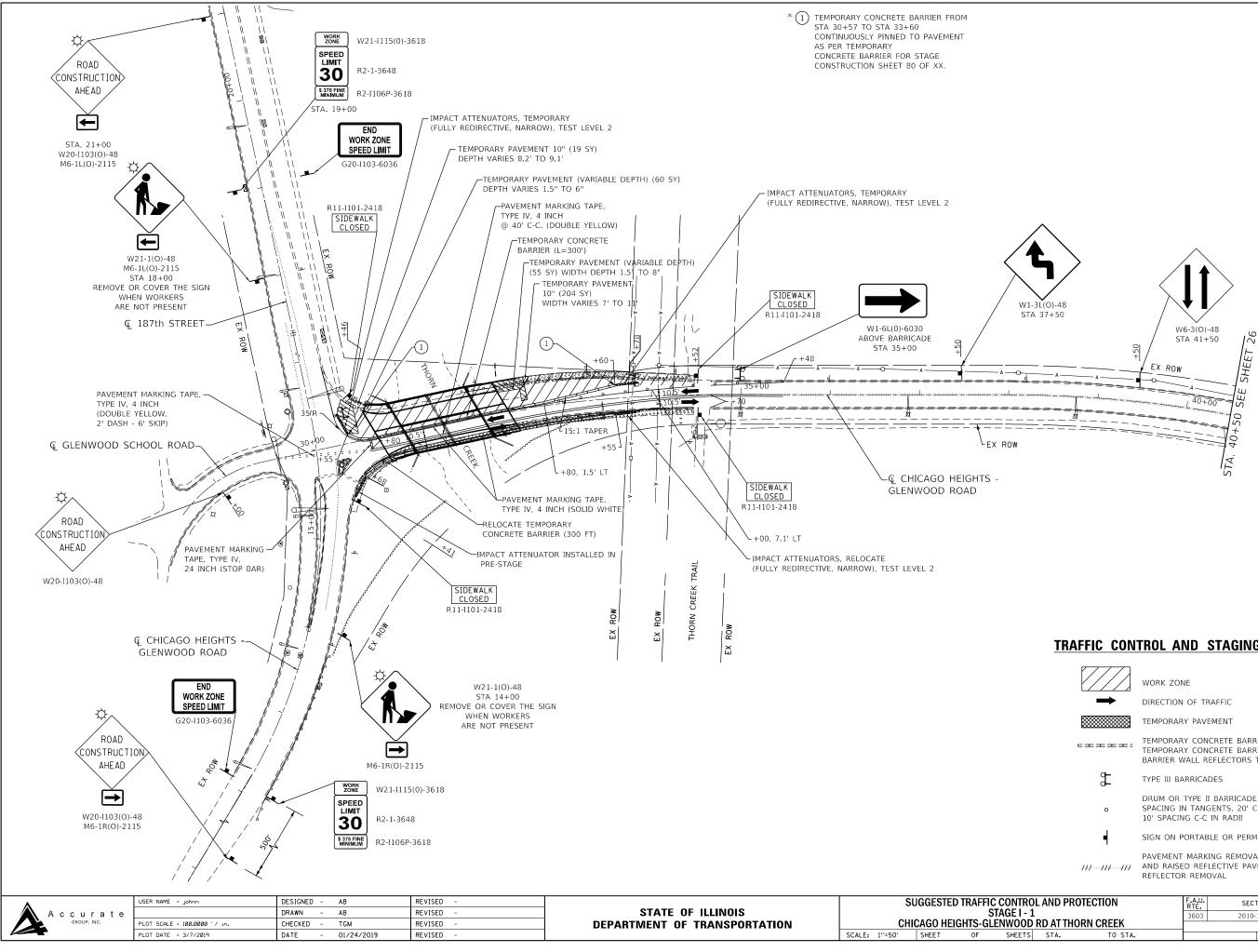




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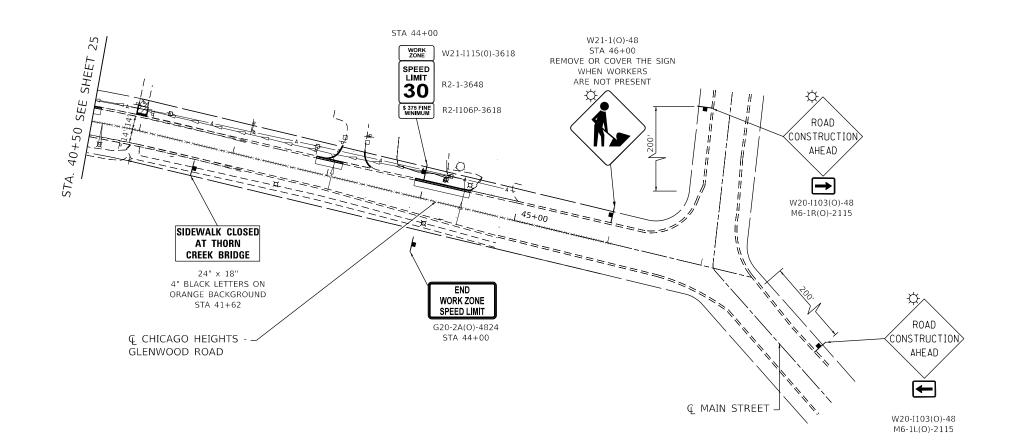
	WORK ZONE
$\rightarrow$	DIRECTION OF TRAFFIC
	TEMPORARY PAVEMENT
:====	TEMPORARY CONCRETE BARRIER / RELOCATE TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS TYPE C
<del>6</del>	TYPE III BARRICADES
0	DRUM OR TYPE II BARRICADE AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS, 10' SPACING C-C IN RADII
•	SIGN ON PORTABLE OR PERMANENT SUPPORT
-144 441: 441:	PAVEMENT MARKING REMOVAL - WATER BLASTING AND RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL



	WORK ZONE
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	TEMPORARY PAVEMENT
c====	TEMPORARY CONCRETE BARRIER / RELOCATE TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS TYPE C
<del>6</del>	TYPE III BARRICADES
o	DRUM OR TYPE II BARRICADE AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS, 10' SPACING C-C IN RADII
•	SIGN ON PORTABLE OR PERMANENT SUPPORT
<i> \   </i>	PAVEMENT MARKING REMOVAL - WATER BLASTING AND RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL

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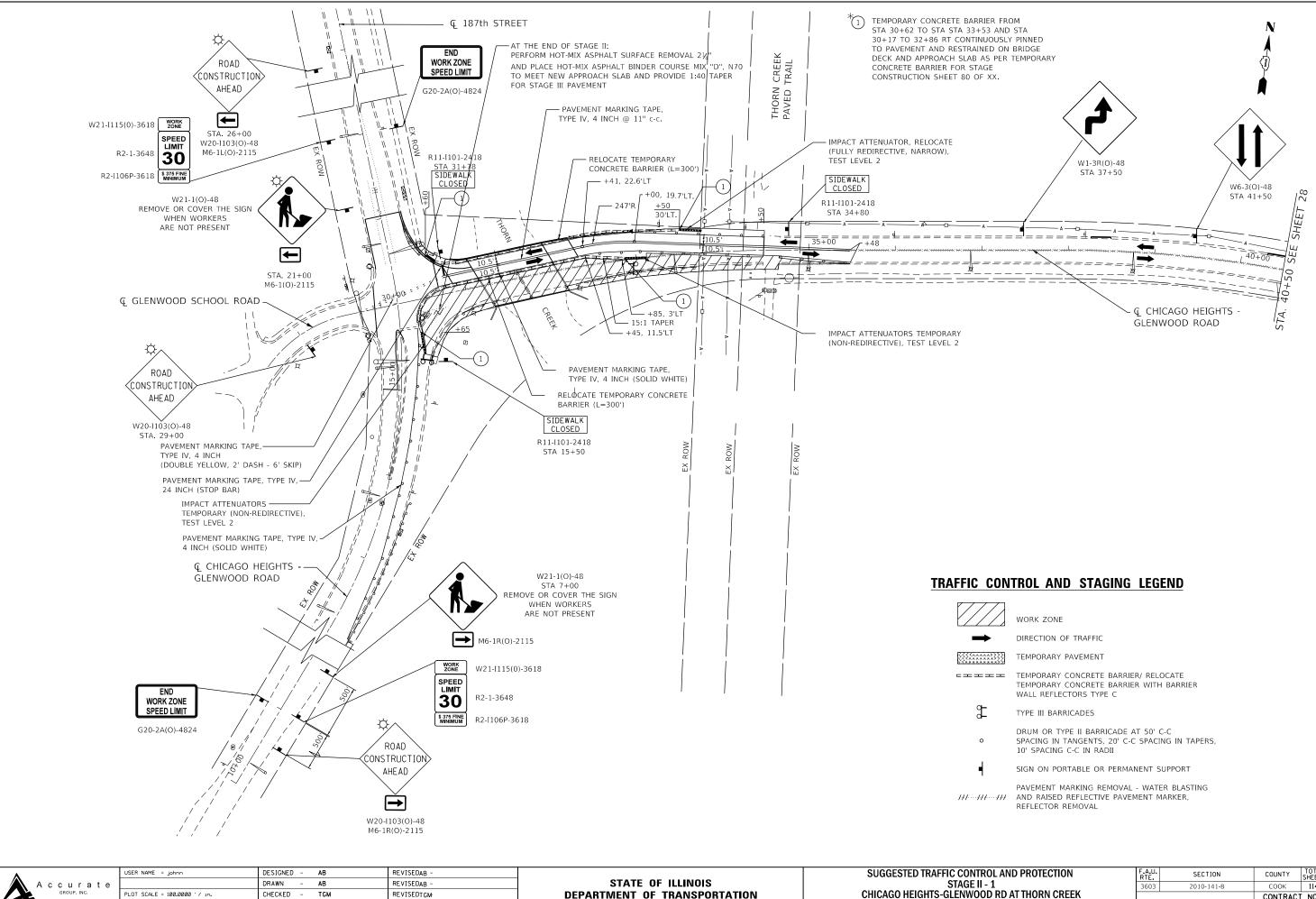
TEMPORARY PAVEMENT

E TEMPORARY CONCRETE BARRIER / RELOCATE TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS TYPE C

TYPE III BARRICADES

DRUM OR TYPE II BARRICADE AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS, 10' SPACING C-C IN RADII

SIGN ON PORTABLE OR PERMANENT SUPPORT



SCALE: 1"=50' SHEET

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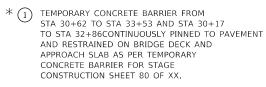
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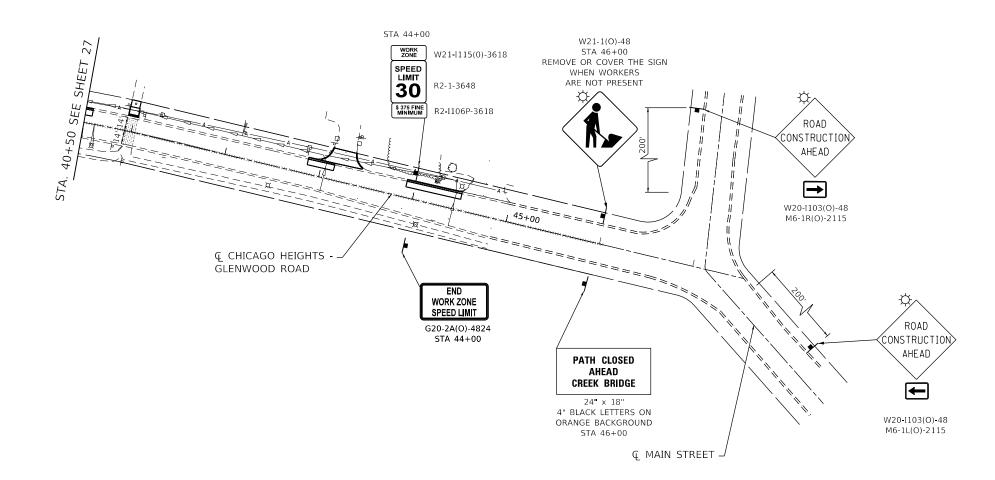
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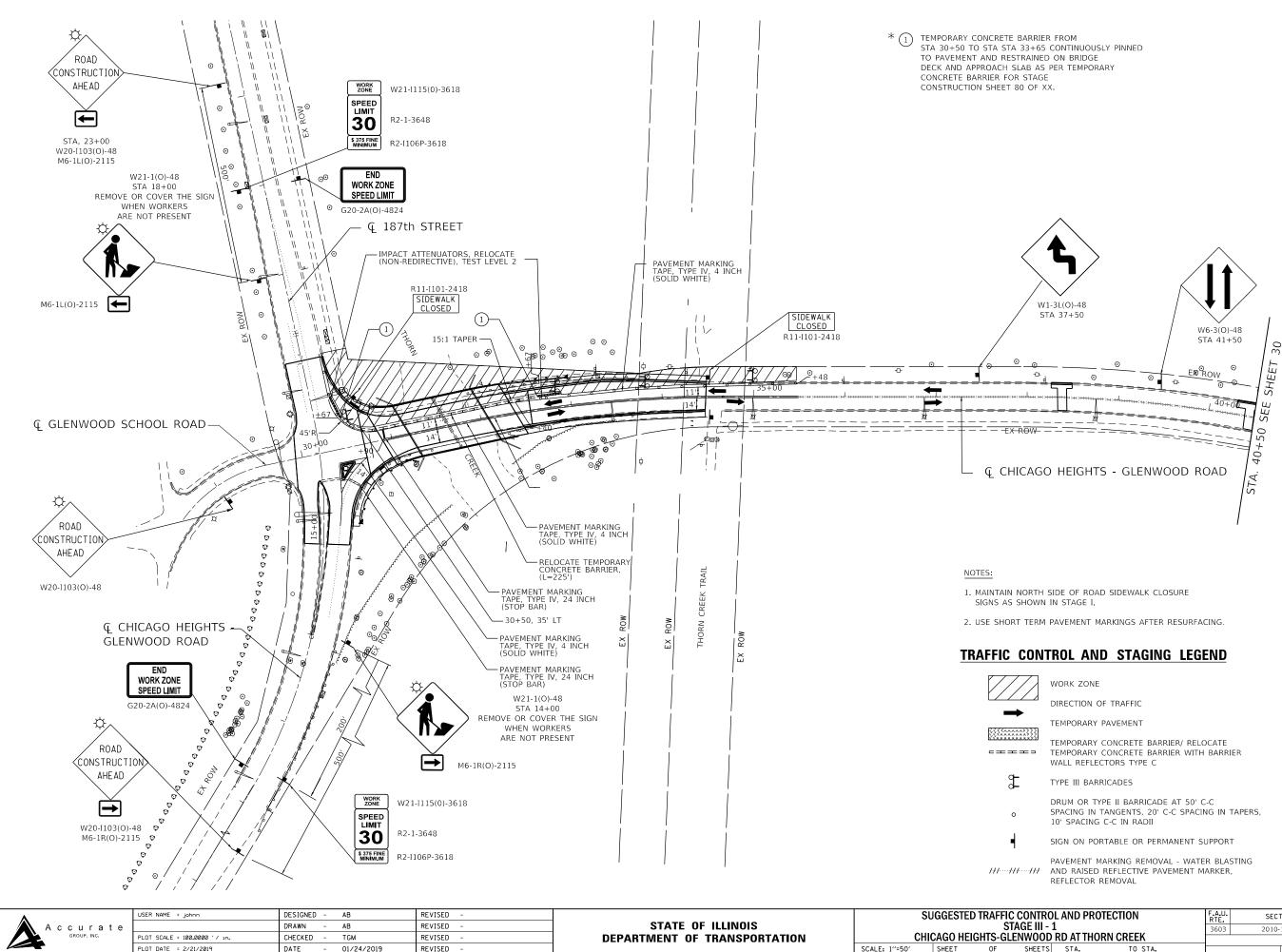
**EXAMPLE 1** TEMPORARY CONCRETE BARRIER / RELOCATE TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS TYPE C

£ TYPE III BARRICADES

> DRUM OR TYPE II BARRICADE AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS, 10' SPACING C-C IN RADII

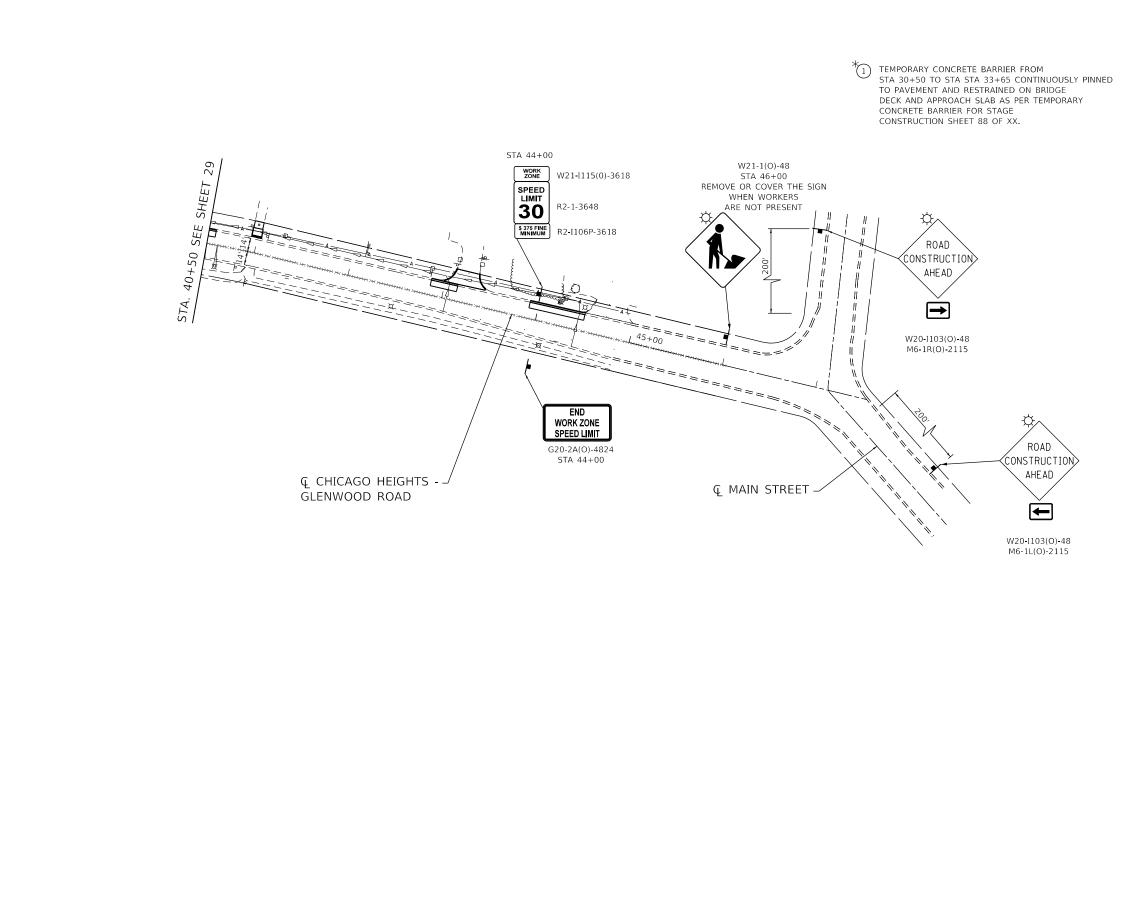
SIGN ON PORTABLE OR PERMANENT SUPPORT 

PAVEMENT MARKING REMOVAL - WATER BLASTING ++++---++++ AND RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL



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ROL AND PROTECTION	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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**EXAMPLE :** TEMPORARY CONCRETE BARRIER / RELOCATE TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS TYPE C

£ TYPE III BARRICADES

> DRUM OR TYPE II BARRICADE AT 50' C-C SPACING IN TANGENTS, 20' C-C SPACING IN TAPERS, 10' SPACING C-C IN RADII

SIGN ON PORTABLE OR PERMANENT SUPPORT 

PAVEMENT MARKING REMOVAL - WATER BLASTING ///····/// AND RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL

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

- 1. ALL CONTROL MEASURES NECESSARY MUST MEET THE MINIMUM REQUIREMENTS AS DESCRIBED IN THE LATEST EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ADDITIONAL DETAILS AND BMPs ARE ALSO AVAILABLE AND CAN BE UTILIZED AS SHOWN IN THE ILLINOIS URBAN MANUAL. REVISED TO LATEST VERSION AS AMENDED. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (HTTP://WWW.IDOT.ILLINOIS. GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).
- 2. ALL THE SOIL EROSION AND SEDIMENT CONTROL FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND THE INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER, WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
- 4. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITIES.
- 5. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREA AS THE PROJECT PROGRESSES AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF. OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE EARTHEN MATERIAL TO THE SATISFACTION OF THE ENGINEER OR AUTHORIZED IDOT PERSONNEL.
- 6. STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10-FT VERTICALLY OR THE FINISHED SLOPE EQUALS 30-FT, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
- THE CONTRACTOR WILL ASSUME RESPONIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL 7 DURING CONSTRUCTION. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES TO BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS THROUGHOUT THE PROJECT.
- 8 THE CONTRACTOR'S REPRESENTATIVE HAS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES AND HAVE TAKEN AN ILLINOIS DEPARTMENT OF TRANSPORTATION OR APPROVED EQUAL EROSION AND SEDIMENT CONTROL COURSE. THIS PERSON SHALL HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTION CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN PROVIDED BY THE ENGINEER. THIS INDIVIDUAL AND THE ENGINEER MUST MAKE INSPECTIONS A MINIMUM OF ONCE EVERY SEVEN DAYS OF THE FOLLOWING:
  - A. DISTURBED AREAS OF THE PROJECT SITE THAT HAVE NOT BEEN FULLY STABILIZED.
  - в. STRUCTURAL CONTROL MEASURES (SUCH AS PERIMETER EROSION BARRIER, ETC.)
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE PROJECT SITE. С.
- AN ADDITIONAL INSPECTION OF THE ITEMS LISTED ABOVE MUST BE MADE 24-HOURS AFTER A D. RAINFALL OR EQUIVALENT SNOWFALL EVENT GREATER THAN 0.5-INCH. DURING WINTER MONTHS, ALL MEASURES MUST BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
- 9. ALL THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON. AS WELL AS OVER THE WINTER SHUTDOWN PERIOD AND OTHER DAYS WHEN THE PROJECT IS CLOSED DOWN FOR A LONGER DURATION. ANY CONTROL MEASURES FILLED MORE THAN 75% MUST BE CLEANED AND RESET AND THESE SPOILS REMOVED TO AN APPROVED SITE.
- 10. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND ACTIVE DRAINAGE PATHS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE. IMMEDIATELY AFTER THE FINAL SHAPING OF THE STOCKPILE. THE TOPSOLI WILL BE STABILIZED IN ACCORDANCE WITH THE METHOD APPROVED BY IDOT. THE CONTRACTOR WILL PROVIDE ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.
- 11. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR, THE COST OF THE CONTROLS WILL BE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER, THE DEPARTMENT WILL ASSUME THE COST OF INSTALLING AND MAINTAINING THE CONTROLS.

- 12. IF AND/OR WHEN THE CONTRACTOR REQUESTS CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH 25 FEET AWAY FROM THE SHOULDER OF THE ROAD PROVIDED THE FOLLOWING CONDITIONS ARE MET:
  - A. ALL AREAS BEING STABILIZED ARE 1:3 SLOPES OR FLATTER
  - THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING в. THE AREA WITH TEMPORARY STABILIZATION WITH MULCH METHOD 2.
  - ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
- 13. TOPSOIL PLACEMENT:

TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARY STEEP SLOPES.

- 14. IN AREAS WHERE A PERMANENT VEGETATIVE COVER IS PRACTICABLE AND INCLUDED IN THE CONTRACT DOCUMENTS. A SPECIAL EFFORT SHOULD BE MADE TO ESTABLISH A COVER AS SOON AS A DISTURBED AREA IS BROUGHT TO FINAL GRADE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
- 15. THE CONTRACTOR'S REPRESENTATIVE AND THE ENGINEER MUST KEEP A WRITTEN REPORT SUMMARIZING THE REQUIRED INSPECTIONS. THE REPORTS MUST BE KEPT AT THE SITE DURING CONSTRUCTION. THE REPORT MUST ALSO BE RETAINED FOR THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED.
- 16. ANY SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING CONTROL MEASURE PRIOR TO RELEASE FROM THE PROJECT SITE.
- 17. NO WORK IS ALLOWED BEYOND THE PERMITTED AREA. ANY WORK WITHIN A SWALE OR DITCH CAPABLE OF CONVEYING WATER MUST BE CONDUCTED IN THE DRY. PROVISIONS MUST BE MADE TO BYPASS PUMP OR DEWATER ANY AREAS IN WHICH WORK WILL BE CONDUCTED. IN HIGH FLOW CHANNELS WHERE DEWATERING IS NOT POSSIBLE OR PRACTICAL, SILT FENCE OR SEDIMENT CURTAINS MAY BE INSTALLED PARALLEL TO THE STREAM BANK. IN NO CASE WILL THE CURTAINS BE INSTALLED PERPENDICULAR TO THE FLOW. DEWATERING MUST BE DISCHARGED TO A STABLE, NON-ERODIBLE SURFACE AND IN-STREAM WORK BARRIERS MUST BE COMPOSED OF NON-ERODIBLE MATERIAL.
- 18. SEEDING USAGE

CLASS 2A: USED ON FINAL DISTURBED CONSTRUCTION AREAS INDICATED ON THE PLANS.

CLASS 4:

USED ON FINAL DISTURBED CONSTRUCTION AREAS INDICATED ON THE PLANS.

TEMPORARY EROSION CONTROL SEEDING: USED IN AREAS REQUIRING SHORT TERM TEMPORARY SEEDING DURING CONSTRUCTION.

- THE CONTRACTOR MUST COOPERATE WITH THE ENGINEER AND HIS/HER REPRESENTATIVE 19. WHO WILL MAKE SITE VISITS TO REVIEW THE COMPLIANCE OF THE PLANS IN THE FIELD AND AUDIT IF NECESSARY. THE CONTRACTOR MUST PREPARE THE LOGS AND RECORDS WHEN REQUIRED AND SUBMIT TO IDOT AND/OR APPROPRIATE AGENCIES.
- 20. THE INSTALLATION, MAINTENANCE, REMOVAL AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF THE PERIMETER EROSION BARRIER ARE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER. AFTER ALL PERIMETER EROSION BARRIER IS REMOVED, THE AREAS DAMAGED BY THE PERIMETER EROSION CONTROL BARRIER MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
- 21. THE CONTRACTOR WILL PROVIDE THE ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THIS IS IMPORTANT WHERE NEW STORM SEWER CONNECTS TO EXISTING CULVERTS. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE ESPECIALLY WHEN RAIN IS FORECAST, SO THAT FLOW WILL NOT BE EROSIVE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS. THE LACK OF AN APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
- 22. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES. WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF FACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY. BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

- CALENDAR DAYS.
- PERMITS.

STD. NO. TITLE 280001 TEMPORARY EROSION CONTROL SYSTEMS

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	ΜΑΥ	JUN.	JUL.	AUG.	SEP.	ОСТ.	NOV.	DEC.
PERMANENT SEEDING												
DORMANT SEEDING												-
TEMPORARY SEEDING										-		
EROSION BLANKET/ HYDROMULCH												

ä	•	USER NAME = Johnn	DESIGNED - MN	REVISED -					
¥	🔺 Accurate		DRAWN - MN	REVISED -	STATE OF ILLINOIS	000			I CONTRO ENWOOD
ž	GROUP, INC.	PLOT SCALE = 2.0000 ' / in.	CHECKED - JMT	REVISED -	DEPARTMENT OF TRANSPORTATION			HIS-GLI	EINWOOD
2		PLOT DATE = 1/31/2019	DATE - 01/24/2019	REVISED -		SCALE:	SHEET	0F	SHEETS

23. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN ONE (1) DAY AFTER THE CONSRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF FOURTEEN (14) OR MORE

24. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.

26. THE CONTRACTOR IS REQUIRED TO PROVIDE WASHOUT FACILITIES TO COMPLY WITH EROSION CONTROL

27. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: "PROTECTED WETLAND - NO INTRUSION". THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY THE 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 PICK UP 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.

## SOIL EROSION AND SEDIMENT CONTROL STRATEGY:

1. INSTALL TRAFFIC CONTROL DEVICES.

2. ERECT PERIMETER EROSION BARRIERS AND TEMPORARY FENCES AS SHOWN ON THE PLANS. 3. INSTALL INLET FILTERS AS SHOWN ON THE PLANS.

4. ESTABLISH STABILIZED CONSTRUCTION ENTRANCES.

5. REMOVE EXISTING PAVEMENTS, SIDEWALKS AND STRUCTURES AS SHOWN ON THE PLANS.

6. CONSTRUCT PROJECT IMPROVEMENTS AS SHOWN ON THE PLANS.

7. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.

8. TEMPORARY STABILIZATION OF EACH STAGE SHOULD BE COMPLETED BEFORE WORK BEGINS ON SUBSEQUENT STAGES.

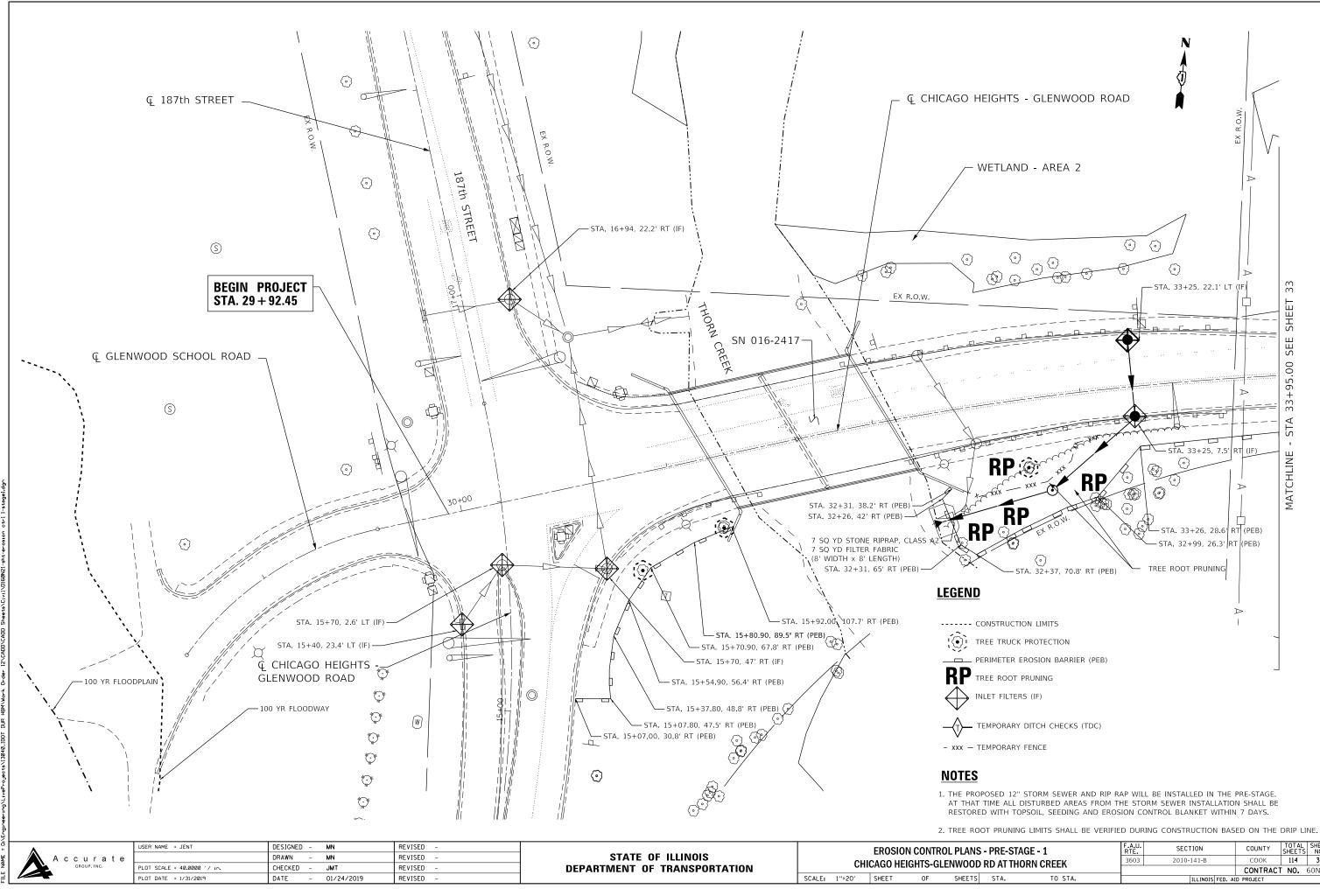
9. STABILIZE DISTURBED AREAS WITH TEMPORARY EROSION CONTROL MEASURES. USE THE PERMANENT SEEDING WITH EROSION CONTROL BLANKET AS SHOWN ON THE PLANS FOR PERMANENT STABILIZATION.

10. WHEN THE PERMANENT STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY FROSION CONTROL MEASURES.

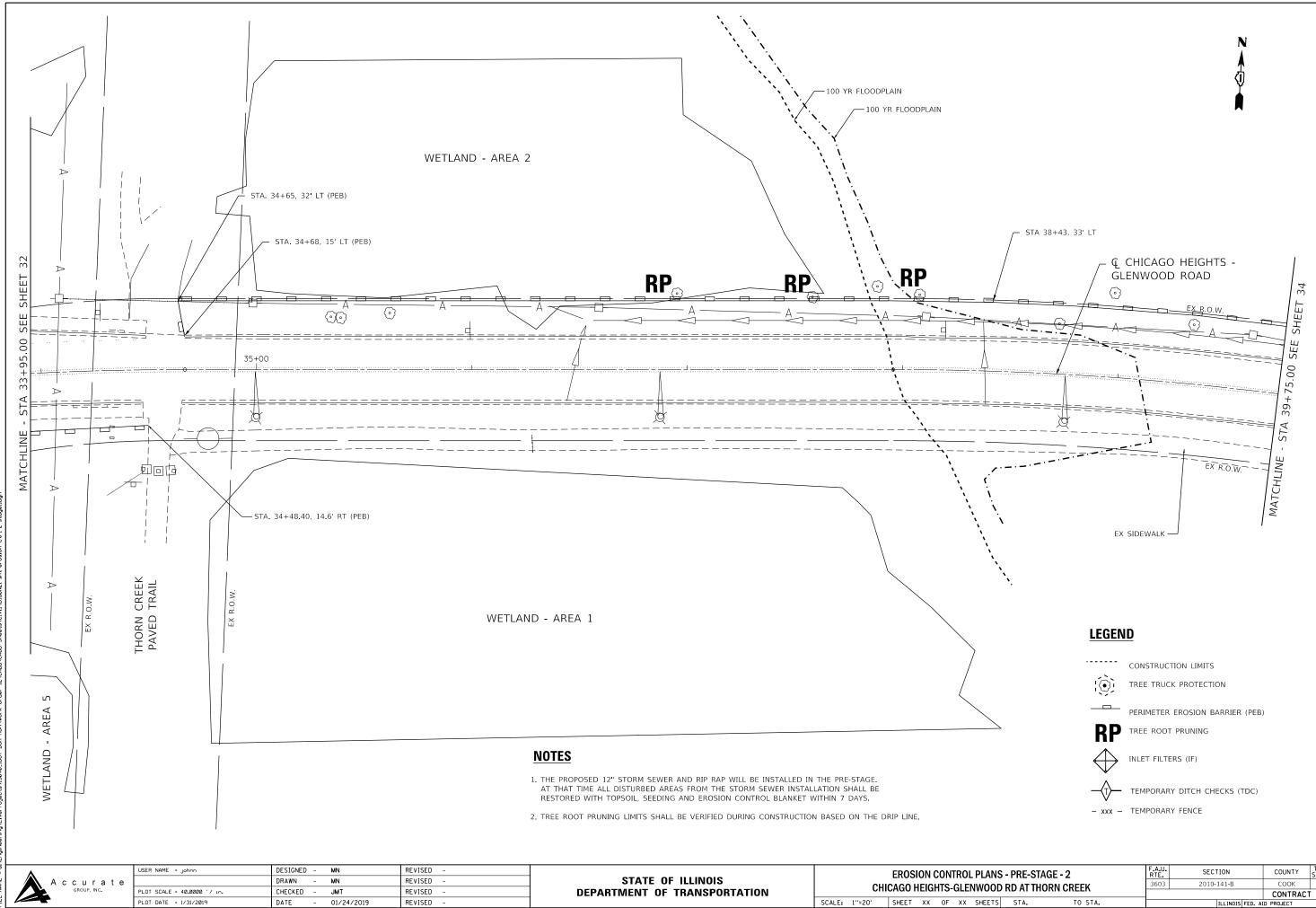
## **HIGHWAY STANDARD**

## SOIL PROTECTION SCHEDULE:

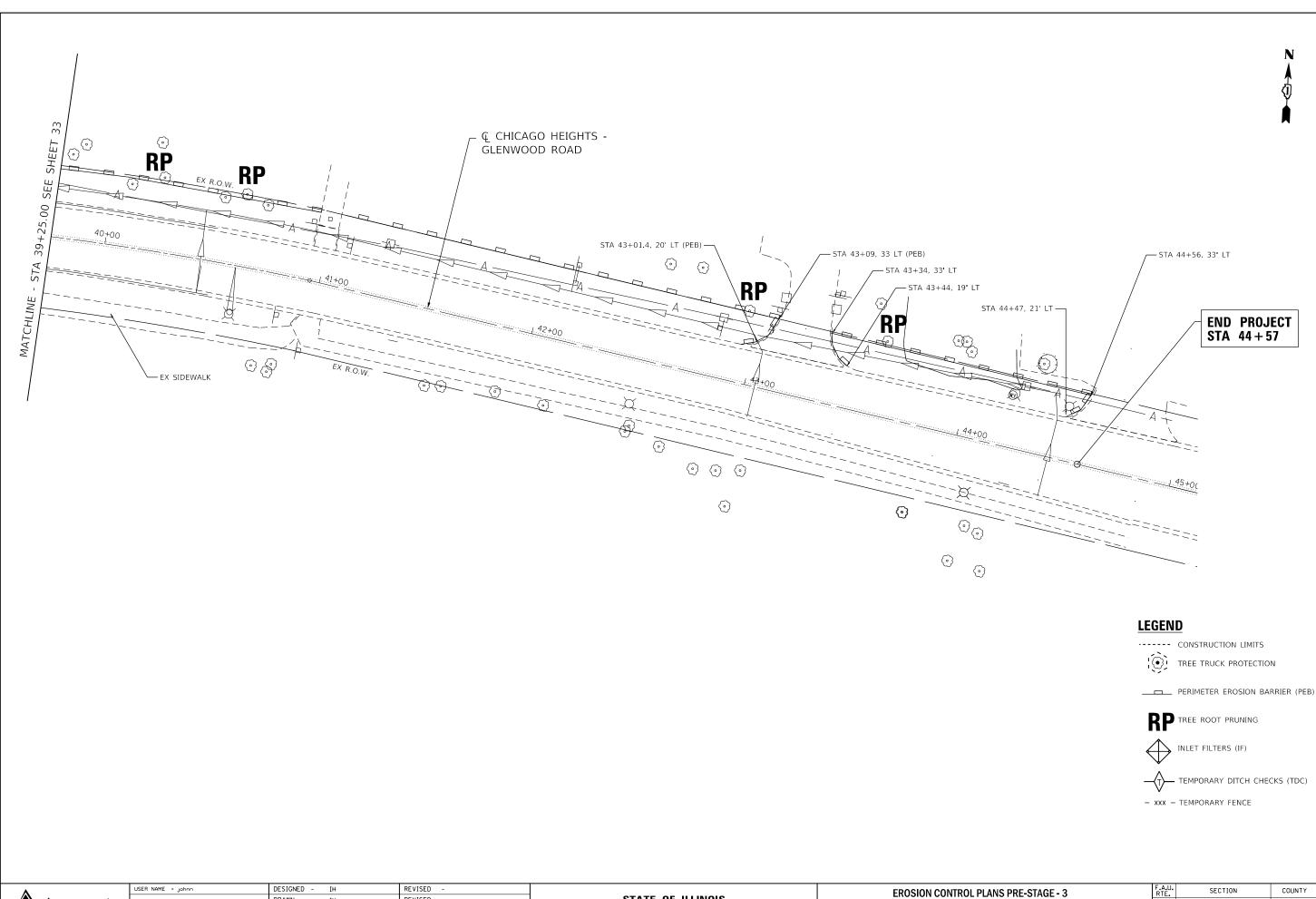
0	L NOTES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ORN CREEK	3603	2010-141-B	соок	114	31
					CONTRACT	NO.	60N21
S	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



NS	- PRE-ST/	\GE - 1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
חח		ORN CREEK	3603	2010-141-B	СООК	114	32	
		ORN OREER	_		CONTRACT	NO.	60N21	
TS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT			



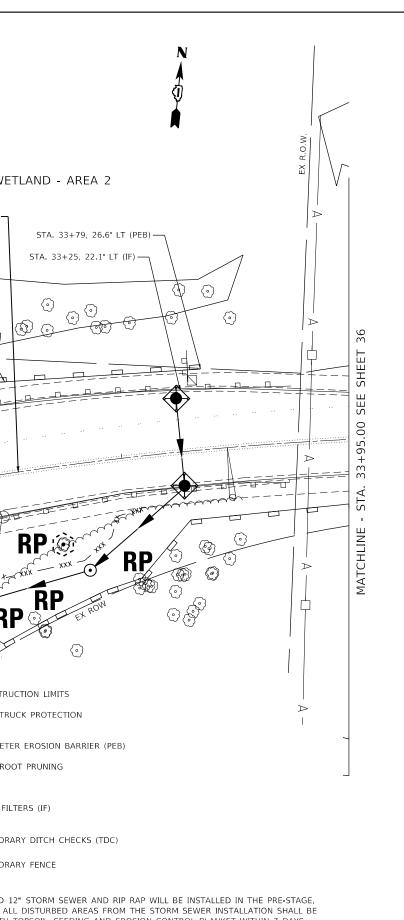
S - PRE-STAGE - 2	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D RD AT THORN CREEK	3603	2010-141-B	соок	114	33
			CONTRAC	T NO.	60N21
S STA. TO STA.		ILLINOIS FED.	AID PROJECT		

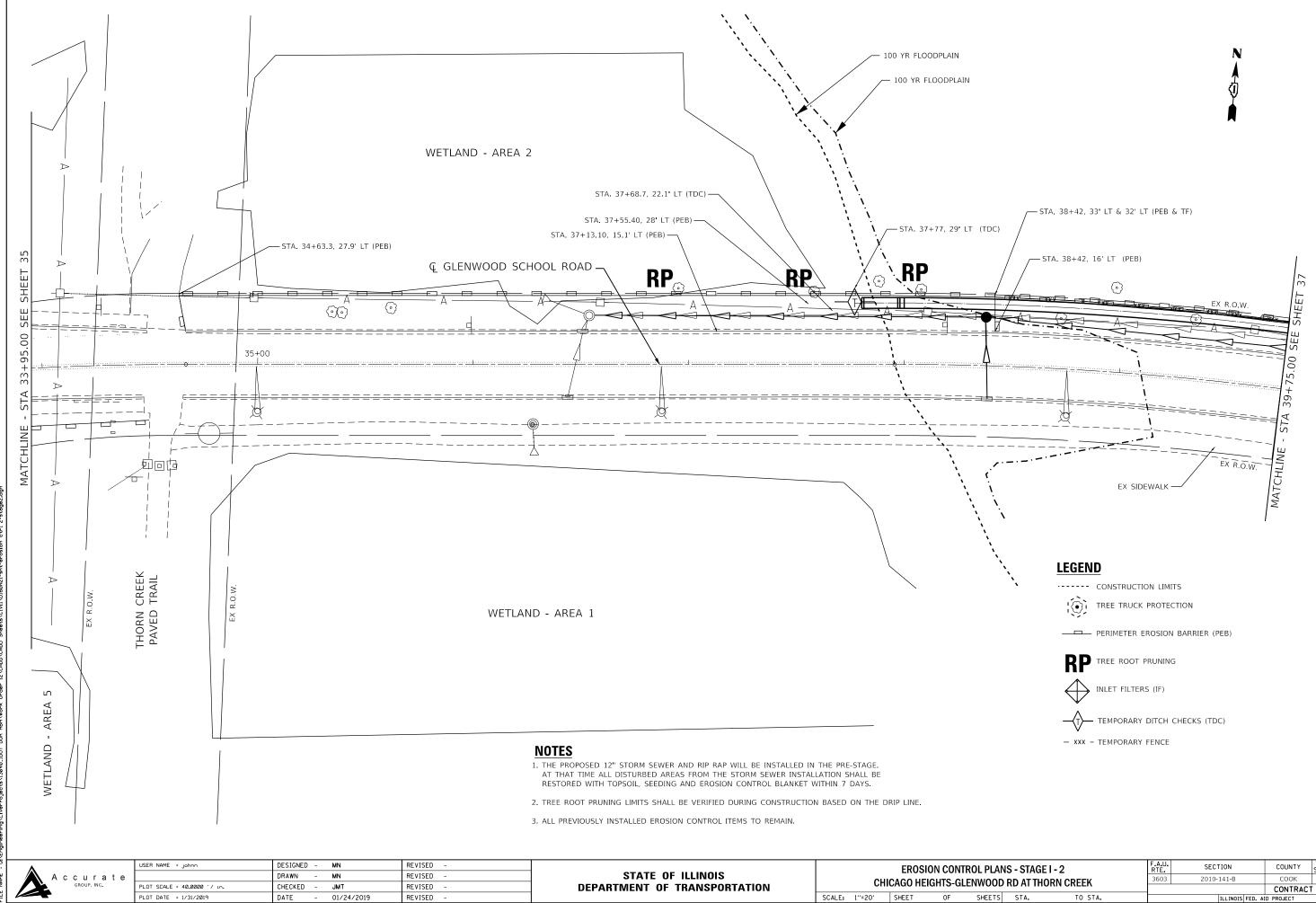


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	4	PLOT DATE = 1/31/2019	DATE -	01/24/2019	REVISED -		SCALE:	1''=20'	SHEET	OF	SHEETS	

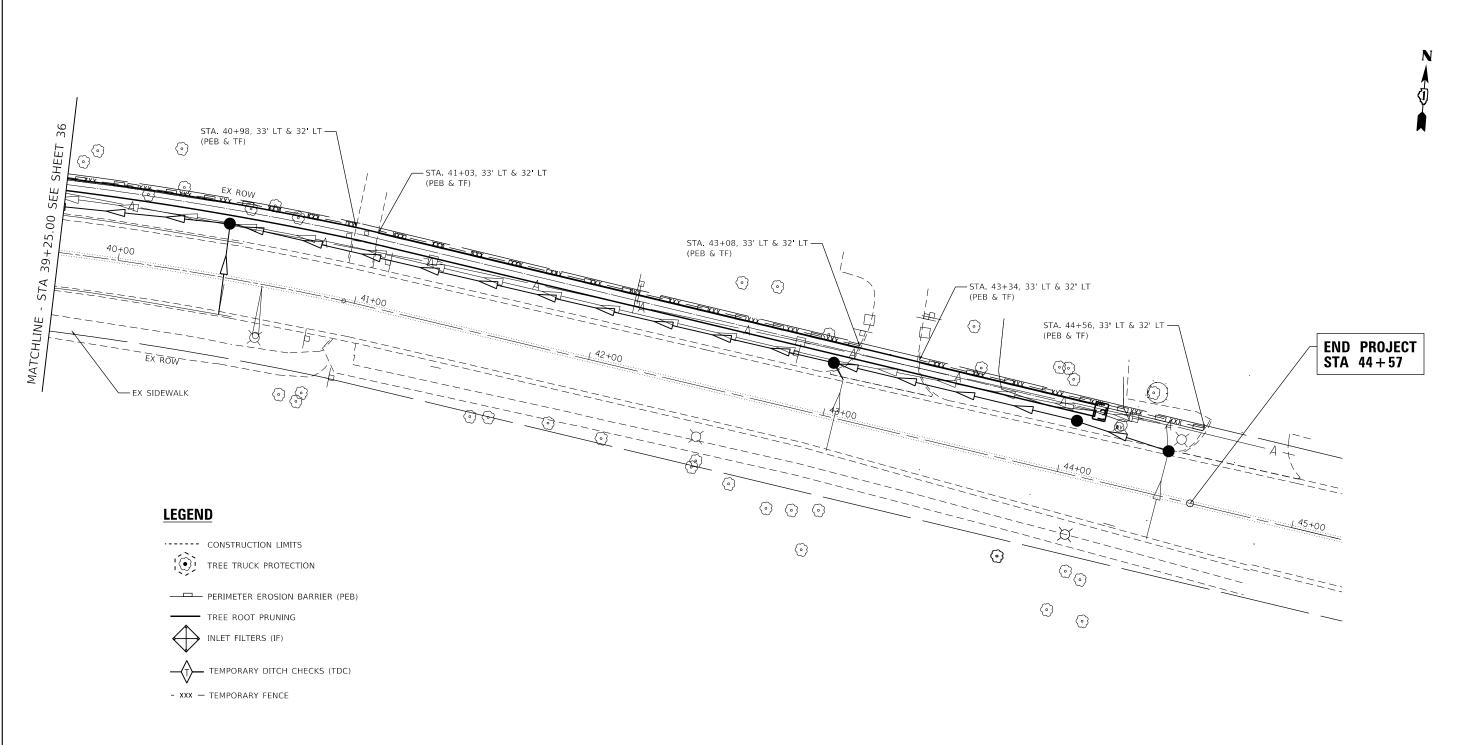
F.A.U. RTE	SECTION	COUNTY	COUNTY TOTAL SHEETS		
3603	2010-141-B	соок	114	34	
_		CONTRACT	NO.	60N21	
ILLINOIS FED. AID PROJECT					
	RTE.	RTE.         SECTION           3603         2010-141-B	RTE.         Section         Coontract           3603         2010-141-B         COOK           CONTRACT         CONTRACT	RTE.         SECTION         COUNTY         SHEETS           3603         2010-141-B         COOK         114           CONTRACT NO.         CONTRACT NO.	

Ç 187th STREET © BEGIN PROJEC STA. 29 + 92.45		STA. 30+66, 74.7' LT (PEB) STA. 31+99, 40.5' LT (PE STA. 31+89, 43,3' LT (PEB) STA. 32+00, 39.7' LT (PEB)	WETLAND - AREA 2 SO HEIGHTS - GLENWOOD ROAD STA. 32+57, 38.4' LT (PEB) EX ROW STA. 33+25, 22.1' LT (IF) EX ROW STA. 33+25, 22.1' LT (IF) STA. 34+25,	CINE - STA. 33+95.00 SEE SHEET 36
	R FLOODWAY	G CHICAGO HEIGHTS GLENWOOD ROAD	Image: Construction limits         Image: Constructing limits         Im	WILL BE INSTALLED IN THE PRE-STAGE. STORM SEWER INSTALLATION SHALL BE N CONTROL BLANKET WITHIN 7 DAYS. DURING CONSTRUCTION BASED ON THE DRIP LINE. TEMS TO REMAIN. FRAU. SECTION COUNTY TOTAL SHEET
GROUP, INC. PLOT SCALE = 40.0000 ' / in. CH	AWN         -         MN         REVISED         -           ECKED         -         JMT         REVISED         -           TE         -         01/24/2019         REVISED         -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK SCALE: 1'=20'' SHEET OF SHEETS STA. TO STA.	3603 2010-141-B COOK 114 35 CONTRACT NO. 60N21 ILLINOIS FED. AID PROJECT

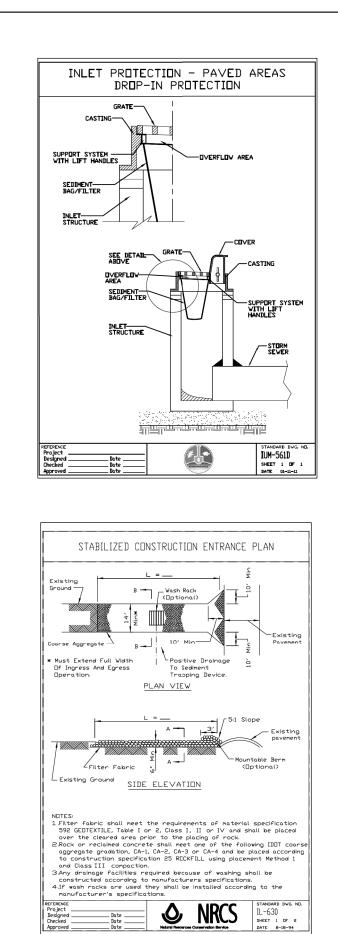




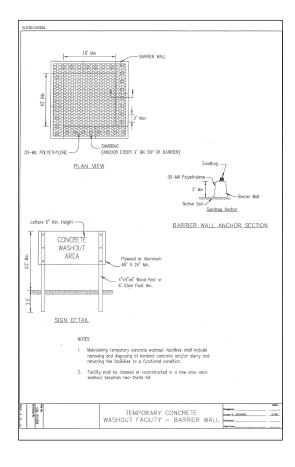
ANS - STAGE I - 2 DD RD AT THORN CREEK		SECTION	COUNTY TOTAL SHEETS		SHEET NO.		
		2010-141-B	соок	114	36		
			CONTRACT	ΓNΟ.	60N21		
TS STA. TO STA.	ILLINOIS FED. AID PROJECT						

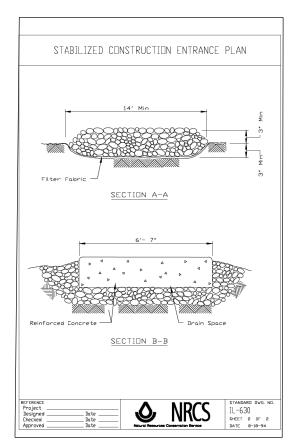


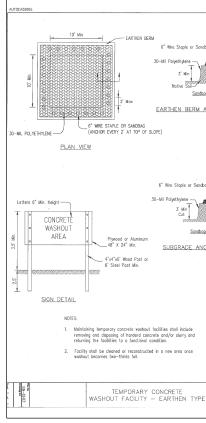
á	۵	USER NAME = Johnn	DESIGNED - MAN	REVISED -		EROSION CONTROL PLANS - STAGE I - 3	F.A.U. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
Ā	👗 Accurate		DRAWN - UAN	REVISED -	STATE OF ILLINOIS	CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK	3603	2010-141-B	соок 114 37
z u	GROUP, INC.	PLOT SCALE = 40.0000 '/ in.	CHECKED - JMT	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60N21
đ L		PLOT DATE = 1/31/2019	DATE - 01/24/2019	REVISED -		SCALE: 1''=20' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT



\_\_\_ Date \_\_ \_\_\_ Date \_\_ \_\_\_ Date \_\_







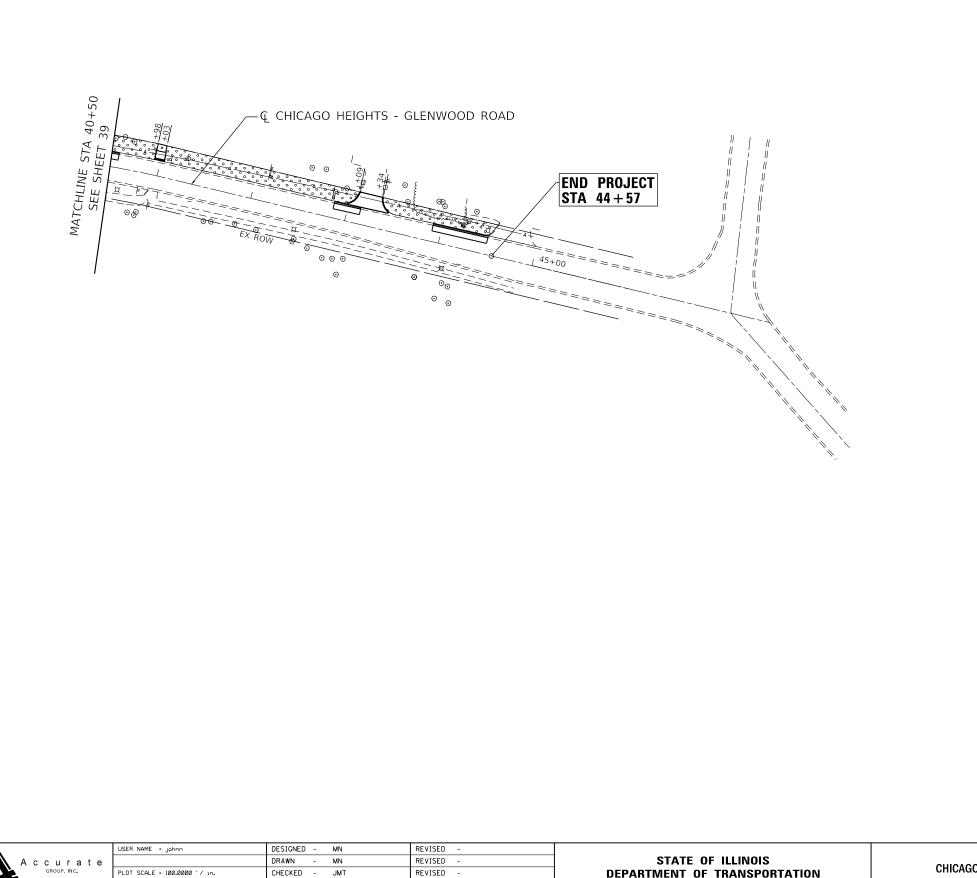


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ANCHOR SECTIONS
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Existing Ground Elevation
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Anchor
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DL DETAILS DD RD AT THORN CREEK		SECTION	COUNTY	SHEET NO.			
		2010-141-B	соок	114	38		
			CONTRACT	NO.	60N21		
S STA. TO STA.	ILLINOIS FED. AID PROJECT						

Image: Strategy of the strategy		CLENWOOD WOODS-SOUTH
		LANDSCAPING LEGEND         Image: Seeding, class 4 Image: Werosion control blanket         Image: Seeding, class 2A Image: Seeding, class
USER NAME = johnn         DESIGNED -         MN         REVISED -           GROUP, INC.         PLOT SCALE = 100.0000 '/ in.         CHECKED -         JMT         REVISED -           PLOT DATE = 1/31/2019         DATE -         01/24/2019         REVISED -         D	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN - 1         F.A.U. RTE.         SECTION         COUNTY         TOTAL SHEETS         SHEETS         NO.           CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK         3603         2010-141-B         COOK         114         39           SCALE:         11"=50"         SHEET         OF         SHE         STA.         TO         STA.         O         00121

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PLOT DATE = 1/31/2019

DATE - 01/24/2019



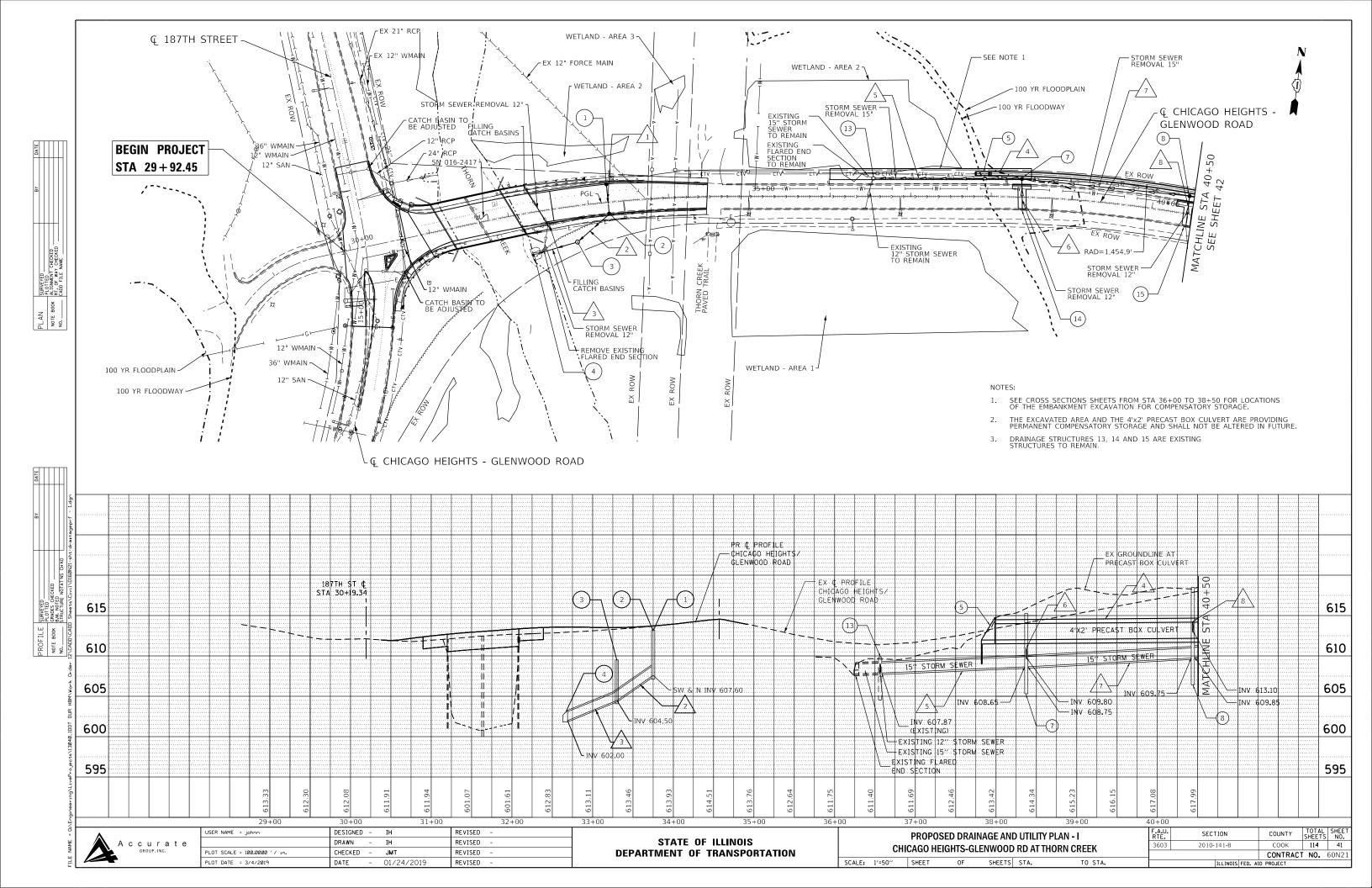
# LANDSCAPING LEGEND

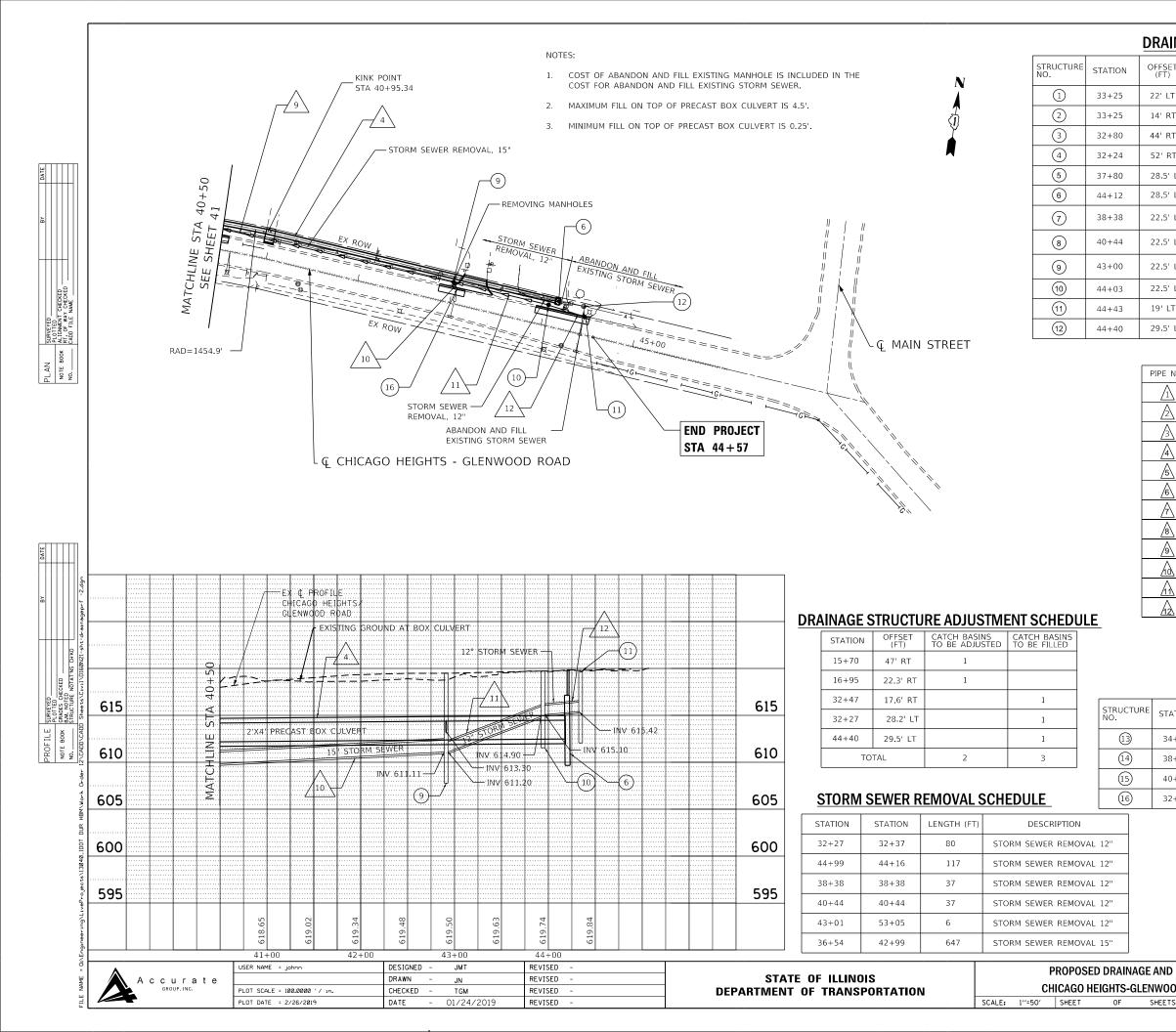


SEEDING, CLASS 4 W/EROSION CONTROL BLANKET

SEEDING, CLASS 2A W/EROSION CONTROL BLANKET

PLAN - 2 DD RD AT THORN CREEK		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		2010-141-B	соок	114	40		
			CONTRACT	NO.	60N21		
S STA. TO STA.	ILLINOIS FED. AID PROJECT						





# **DRAINAGE STRUCTURE SCHEDULE**

				=		
ΞT	STRU	ICTURE 1	ГҮРЕ	FRAME &	INVERT	RIM
	МН	CB	OTHER	GRATE	ELEVATION	ELEVATION
T		4'A		23	INV 608.00	613.10
кт		4'A		23	INV 607.60 (SW & N)	613.22
RT	4'A				INV 604.50	609.50
RΤ			FES 12"		INV 602.00	
LT			TAPERED END SECTION		INV 611.19	
LT			JUNCTION BOX	1 CL	INV 612.49	619.49
LT		4'A		1 CL	INV 608.65 (W) INV 608.75 (E) INV 609.80 (S)	615.25
LT		4'A		1 CL	INV 609.75 (W) INV 609.85 (E) INV 613.10 (SE)	618.50
LT		4'A		1 CL	INV 611.10 (W) INV 611.20 (E) INV 613.30 (S)	619.50
LT		4'A		1 OL	INV 614.90 (W) INV 615.10 (E)	619.49
.Т			INLET TYPE B	11	INV 615.42 (W) INV 615.48 (S)	619.07
LT	4'A			1 CL	TO BE ABANDONED	

## **STORM SEWER PIPE SCHEDULE**

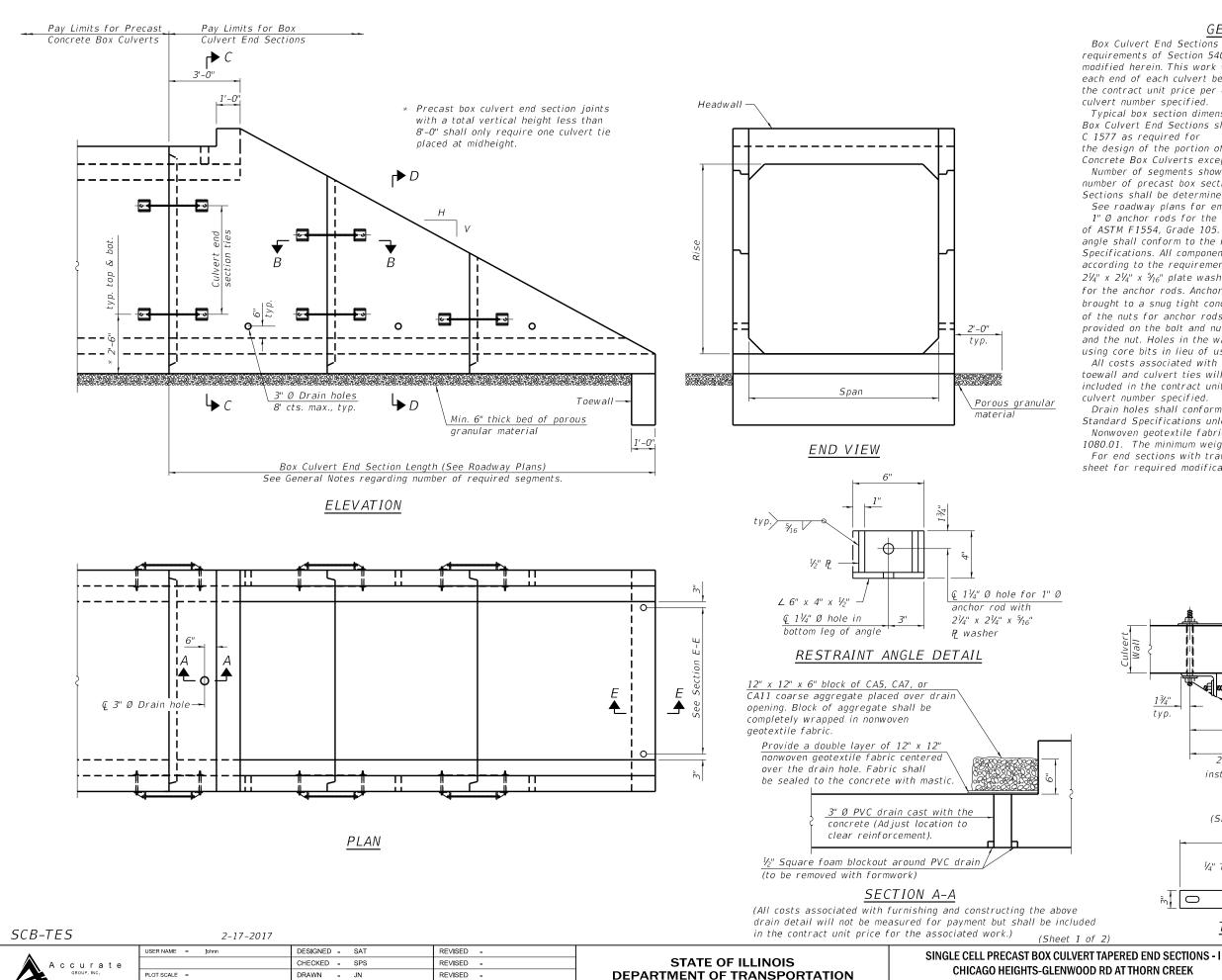
URE STRUCTI	JRE DESCRIF	PTION	DIA (INCH)	LENGTH (FT)	SLOPE %	T.B.F. (CU YD)
2			12	36	6.5	8.1
3			12	48	5.2	3.5
4			12	52	4.3	0
6			2' X 4'	618	0.08	56.3
13			15	180	0.5	0
7			12	37	0.7	7.9
7			15	205	0.5	0
8			12	37	0.8	9.9
8			15	255	0.5	18.5
9			12	6	1.0	1.5
9			12	100	3.7	44.3
10			12	37	1.0	5.4
					TOTAL	155.4
	URE STRUCTU 2 3 4 6 13 7 7 7 7 8 8 8 8 8 9 9 9	URE STRUCTURE DESCRIP 2 SS TYPE CLASS / 3 SS TYPE CLASS / 4 CLASS / 6 PRECAS BOX CU 13 SS TYPE 7 SS TYPE W.M. QU 7 SS TYPE W.M. QU 8 SS TYPE W.M. QU 8 SS TYPE W.M. QU 9 SS TYPE W.M. QU 9 SS TYPE W.M. QU 9 SS TYPE	URE STRUCTURE DESCRIPTION 2 SS TYPE 2 CLASS A RCP 3 SS TYPE 2 CLASS A RCP 4 CLASS A RCP 4 CLASS A RCP 6 PRECAST BOX CULVERT 13 SS TYPE 2 W.M. QUALITY 7 SS TYPE 2 W.M. QUALITY 7 SS TYPE 2 W.M. QUALITY 8 SS TYPE 2 W.M. QUALITY 8 SS TYPE 2 W.M. QUALITY 8 SS TYPE 2 W.M. QUALITY 9 SS TYPE 2 Y M.M. QUALITY Y M.M. QUALITY Y M.M. QUALITY Y M.M. QUALITY Y M.M. QUALITY Y M.M.	URE STRUCTURE         DESCRIPTION         (INCH)           2         SS TYPE 2 CLASS A RCP         12           3         SS TYPE 2 CLASS A RCP         12           4         SS TYPE 2 CLASS A RCP         12           6         PRECAST BOX CULVERT         2' X 4'           13         SS TYPE 2 W.M. QUALITY         15           7         SS TYPE 2 W.M. QUALITY         12           8         SS TYPE 2 W.M. QUALITY         15           8         SS TYPE 2 W.M. QUALITY         12           9         SS TYPE 2 W.M. QUALITY         12	URE STRUCTURE         DESCRIPTION         (INCH)         (FT)           2         SS TYPE 2 CLASS A RCP         12         36           3         SS TYPE 2 CLASS A RCP         12         48           4         SS TYPE 2 CLASS A RCP         12         52           6         PRECAST BOX CULVERT         2' X 4'         618           13         SS TYPE 2 W.M. QUALITY         15         180           7         SS TYPE 2 W.M. QUALITY         12         37           7         SS TYPE 2 W.M. QUALITY         15         205           8         SS TYPE 2 W.M. QUALITY         12         37           8         SS TYPE 2 W.M. QUALITY         15         255           9         SS TYPE 2 W.M. QUALITY         12         6           9         SS TYPE 2 W.M. QUALITY         12         100           9         SS TYPE 2 W.M. QUALITY         12         100	URE STRUCTURE         DESCRIPTION         (INCH)         (FT)         SLOPE %           2         SS TYPE 2 CLASS A RCP         12         36         6.5           3         SS TYPE 2 CLASS A RCP         12         48         5.2           4         CS TYPE 2 CLASS A RCP         12         52         4.3           6         PRECAST BOX CULVERT         2' X 4'         618         0.08           13         SS TYPE 2 W.M. QUALITY         15         180         0.5           7         SS TYPE 2 W.M. QUALITY         12         37         0.7           7         SS TYPE 2 W.M. QUALITY         15         205         0.5           8         SS TYPE 2 W.M. QUALITY         12         37         0.8           8         SS TYPE 2 W.M. QUALITY         15         255         0.5           9         SS TYPE 2 W.M. QUALITY         12         6         1.0           9         SS TYPE 2 W.M. QUALITY         12         6         1.0           9         SS TYPE 2 W.M. QUALITY         12         37         1.0

\* TRENCH BACKFILL FOR PRECAST BOX CULVERT REQUIRED UNDER THE BIKE PATH AND THE COOK COUNTY FOREST PRESERVE DRIVEWAY.

# **EXISTING DRAINAGE STRUCTURE TABLE - TO REMAIN**

ATION	OFFSET	STRUCTURE TYPE			INVERT	RIM	
ATION	(FT)	МН	СВ	INLET	ELEVATION	ELEVATION	
4+54	23' LT	EXIST			INV 607.87	611.87	
8+38	16' RT			EXIST	INV 607.32	611.02	
0+45	16' RT			EXIST	INV 610.06	613.36	
2+24	52' RT			EXIST	INV 613.34	617.24	

O UTILITY PLAN - II		F.A.U. RTE.	SECTION	COUNTY	Y TOTAL S SHEETS					
		3603	2010-141-B	СООК	114	42				
OD RD AT THORN CREEK					CONTRACT	NO.	60N21			
rs	STA.	TO STA.		ILLINOIS FED. AID PROJECT						



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## GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of 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.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

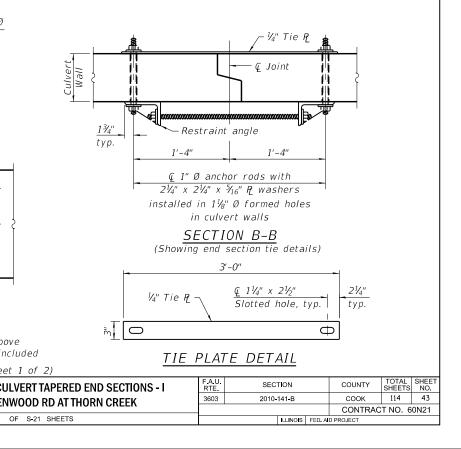
See roadway plans for embankment slope (V:H).

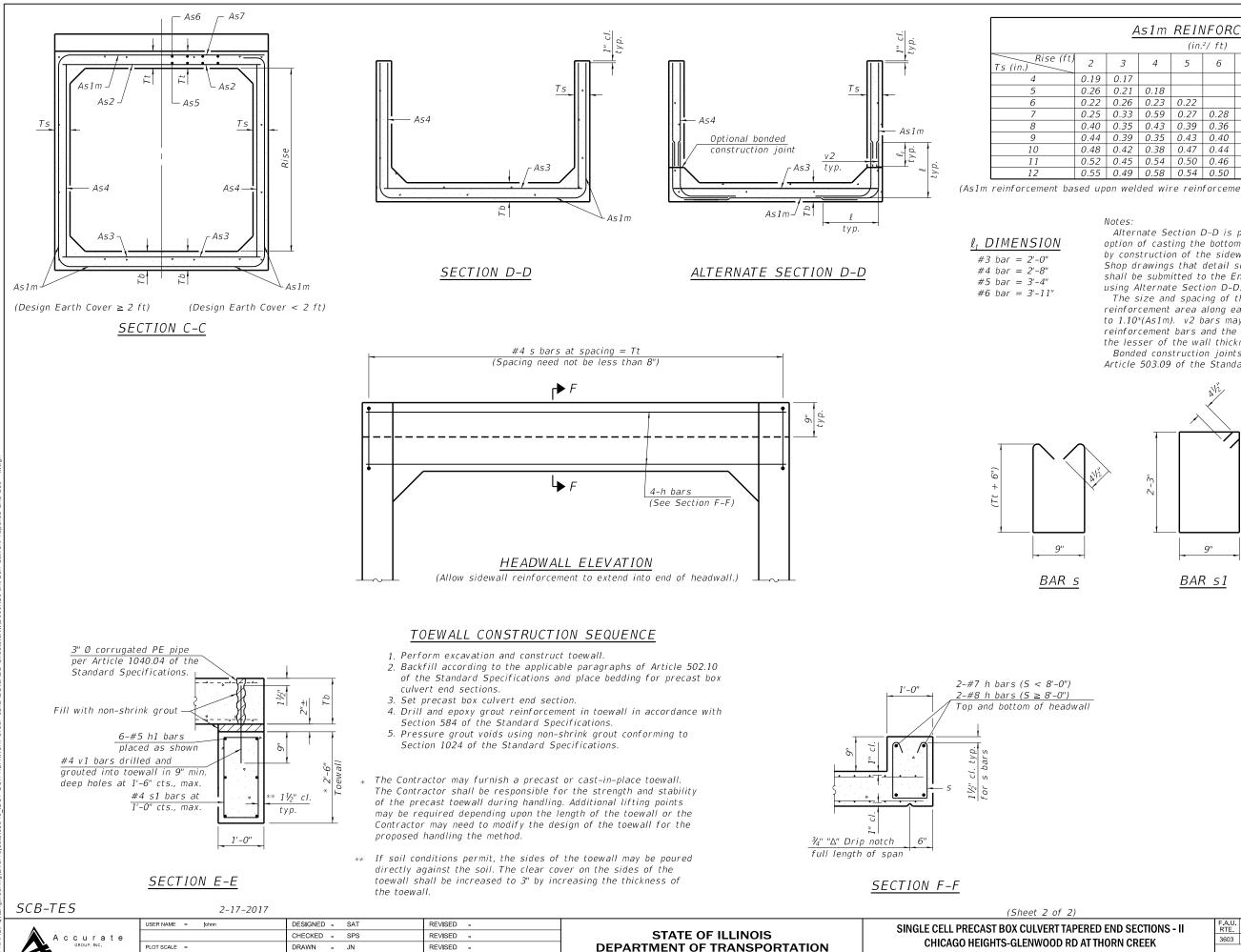
 $1^{\prime\prime}$  Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.  $2\frac{1}{4}$ " x  $2\frac{1}{4}$ " x  $\frac{5}{16}$ " 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  $\frac{1}{2}$  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.

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 contract unit price for Box Culvert End Sections of the culvert number specified.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd.. For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.





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	As1m REINFORCEMENT											
	(in.²/ ft)											
e (ft)	2	3	4	5	6	7	8	9	10	11	12	
	0.19	0.17										
	0.26	0.21	0.18									
	0.22	0.26	0.23	0.22								
	0.25	0.33	0.59	0.27	0.28							
	0.40	0.35	0.43	0.39	0.36	0.34	0.40					
	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48				
	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56			
	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65		
	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75	

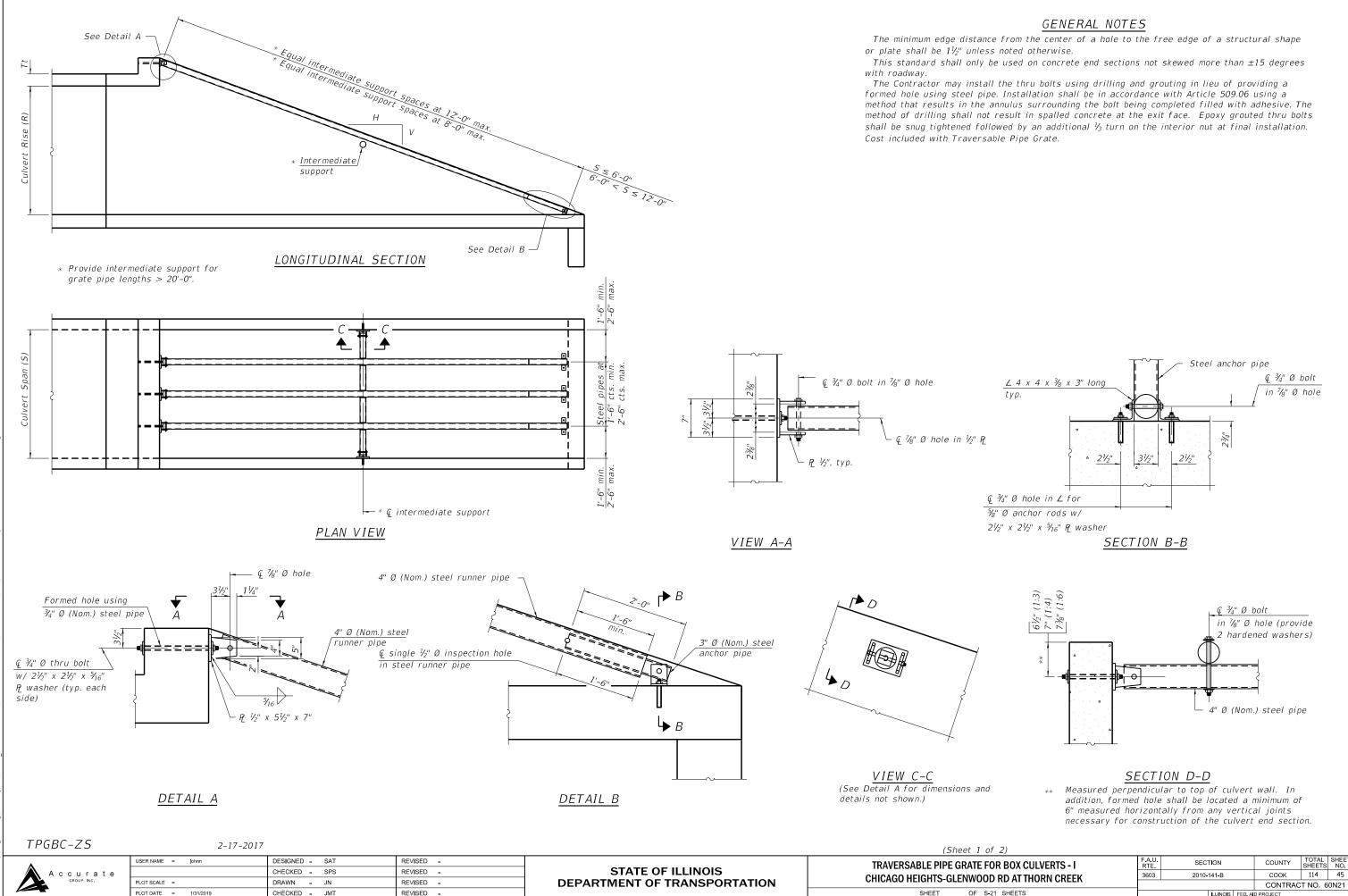
(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.<sup>2</sup>/ft.) equal to 1.10\*(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

2)								
RT TAPERED END SECTIONS - II	F.A.U. RTE			COUNTY	TOTAL SHEETS	SHEET NO.		
DD RD AT THORN CREEK	3603	3603 2010-141-B			114	44		
				CONTRAC	T NO. 60N21			
S-21 SHEETS		ILLINOIS	FED. A	D PROJECT				



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# PIPE-GRATE SCHEDULE FOR BOX CULVERT END SECTIONS

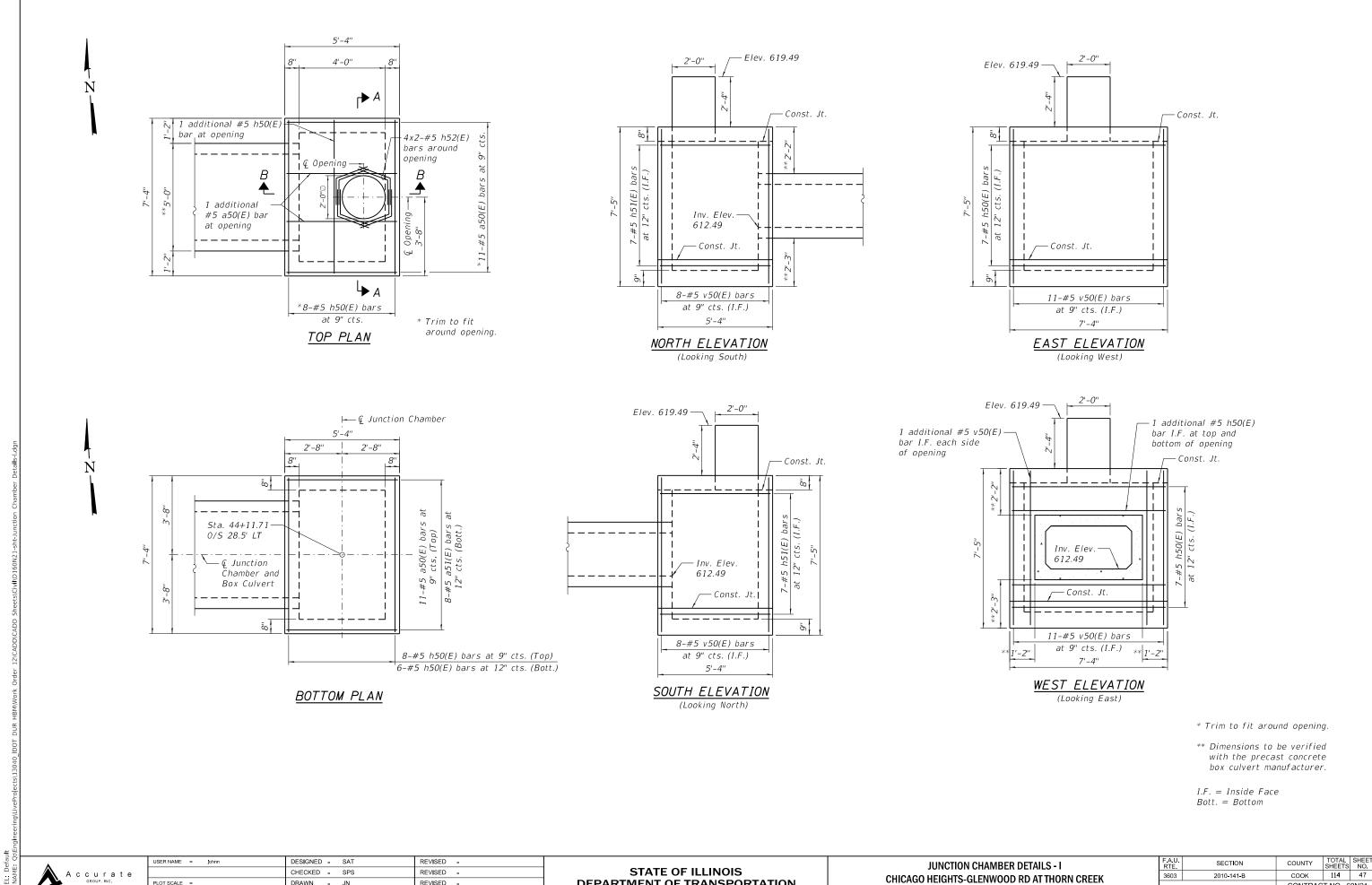
				<u>,</u>	TI L-UNATI											
		Precast Bo	ox (		1.7		Sla	ope of End Sect	ion	[	1.6					
	Culv	ert Dimen	sions	Main Pipe	1:3 Int. Support	Total Length	Main Pipe	1:4 Int. Support	Total Length	Main Pipe	1:6 Int. Support	Total Length				
	S (ft	) R (ft)	Tt (in)	No. / Length	No. / Length	of Pipe	No. / Length	No. / Length	of Pipe		No. / Length	of Pipe				
	4	2	7.5	1 @ 8'-10"	N/A	8'-10''	1 @ 11'-7"	N/A	11'-7"	1 @ 17'-2"	N/A	17'-2"				
	4	2	5	1 @ 8'-2"	N/A	8'-2"	1 @ 10'-8"	N/A	10'-8''	1 @ 15'-11"	N/A	15'-11"				
	4	3	7.5	1 @ 12'-0"	N/A	12'-0"	1 @ 15'-8"	N/A	15'-8"	1 @ 23'-3"	1 @ 3'-7"	26'-10"				
	4	3 4	5 7.5	1 @ 11'-4" 1 @ 15'-2"	N/A N/A	11'-4'' 15'-2''	1 @ 14'-10" 1 @ 19'-10"	N/A 1 @ 3'-7"	14'-10'' 23'-5''	<u>1 @ 22'-0"</u> 1 @ 29'-4"	1 @ 3'-7" 2 @ 3'-7"	25'-7" 36'-6"				
	4	4	5	1 @ 14'-6"	N/A	14'-6"	1 @ 19-10	N/A	18'-11"	1 @ 29-4	2@3-7"	35'-3"				
	5	2	8	1 @ 8'-11"	N/A	8'-11''	1 @ 11'-9"	N/A	11'-9"	1 @ 17'-5"	N/A	17'-5"				
	5	2	6	1 @ 8'-5"	N/A	8'-5"	1 @ 11'-1"	N/A	1 1'-1''	1 @ 16'-5"	N/A	16'-5"				
	5	3	8	1 @ 12'-1"	N/A	12'-1"	1 @ 15'-10"	N/A	15'-10"	1 @ 23'-6"	1 @ 4'-7"	28'-1"				
	5	3	6 8	1 @ 11'-7" 1 @ 15'-3"	N/A N/A	11'-7" 15'-3"	1 @ 15'-2" 1 @ 20'-0"	N/A 1 @ 4'-7"	15'-2" 24'-7"	1 @ 22'-6" 1 @ 29'-7"	1 @ 4'-7" 2 @ 4'-7"	27'-1" 38'-9"				
	5	4	6	1 @ 14'-9"	N/A	14'-9"	1 @ 19'-3"	N/A	19'-3"	1 @ 28'-7"	2 @ 4'-7"	37'-9"				
	5	5	8	1 @ 18'-5"	N/A	18'-5"	1 @ 24'-1"	2 @ 4'-7"	33'-3"	1 @ 35'-8"	3 @ 4'-7"	49'-5"				
	5	5	6	1 @ 17'-11"	N/A	17'-11"	1 @ 23'-5"	1 @ 4'-7"	28'-0"	1 @ 34'-8"	2 @ 4'-7"	43'-10"				
	6	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"				
	6	2 3	7 8	2 @ 8'-8" 2 @ 12'-1"	N/A N/A	17'-4'' 24'-2''	2 @ 11'-5" 2 @ 15'-10"	N/A N/A	22'-10'' 31'-8''	2 @ 16'-11" 2 @ 23'-6"	N/A 1 @ 5'-7"	33'-10" 52'-7"				
	6	3	7	2 @ 12-1 2 @ 11'-10"	 	23'-8"	2 @ 15-10	N/A N/A	31'-0"	2 @ 23'-0"	1 @ 5'-7"	52 -7				
	6	4	, 8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	1 @ 5'-7"	45'-7"	2 @ 29'-7"	2 @ 5'-7"	70'-4"				
	6	4	7	2 @ 15'-0"	N/A	30'-0"	2 @ 19'-8"	1 @ 5'-7"	44'-11''	2 @ 29'-1"	2 @ 5'-7"	69'-4"				
	6	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	2 @ 5'-7"	59'-4"	2 @ 35'-8"	3 @ 5'-7"	88'-1"				
	6	5	7 8	2 @ 18'-2" 2 @ 21'-7"	N/A 1 @ 5'-7"	36'-4'' 48'-9''	2 @ 23'-9" 2 @ 28'-3"	2 @ 5'-7" 2 @ 5'-7"	58'-8'' 67'-8''	2 @ 35'-2" 2 @ 41'-9"	2 @ 5'-7" 3 @ 5'-7"	81'-6" 100'-3"				
	6	6	7	2 @ 21-7 2 @ 21'-4"	1 @ 5'-7"	48 -9	2 @ 28-3	2@5-7	67'-0"	2 @ 41-9	3@5'-7"	99'-3"				
	7	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"				
	7	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	2 @ 6'-7"	60'-2"				
	7	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	2 @ 6'-7"	53'-2"	2 @ 29'-7"	3@6'-7"	78'-11"				
	7	5	8 8	2 @ 18'-5" 2 @ 21'-7"	N/A 2 @ 6'-7"	36'-10" 56'-4"	2 @ 24'-1"	3@6'-7"	67'-11'' 76'-3''	2 @ 35'-8"	4 @ 6'-7"	97'-8" 116'-5"				
	7	7	0 8	2 @ 21-7 2 @ 24'-9"	3 @ 6'-7"	69'-3"	2 @ 28'-3" 2 @ 32'-4"	3 @ 6'-7" 4 @ 6'-7"	91'-0"	2 @ 41'-9" 2 @ 47'-10"	5@6'-7" 6@6'-7"	135'-2"				
	8	2	8	3 @ 8'-11"	N/A	26'-9"	3 @ 11'-9"	N/A	35'-3"	3 @ 17'-5"	N/A	52'-3"				
	8	3	8	3 @ 12'-1"	N/A	36'-3''	3 @ 15'-10"	N/A	47'-6"	3 @ 23'-6"	2 @ 7'-7"	85'-8''				
	8	4	8	3 @ 15'-3"	N/A	45'-9"	3 @ 20'-0"	2 @ 7'-7"	75'-2"	3 @ 29'-7"	3 @ 7'-7"	111'-6"				
	8	5	8 8	3 @ 18'-5" 3 @ 21'-7"	N/A 2 @ 7'-7"	55'-3" 79'-11"	3 @ 24'-1"	3@7'-7"	95'-0" 107'-6"	3 @ 35'-8"	4 @ 7'-7" 5 @ 7'-7"	137'-4" 163'-2"				
	8	7	8	3 @ 21-7 3 @ 24'-9"	2 @ 7 -7 3 @ 7'-7"	97'-0"	3 @ 28'-3" 3 @ 32'-4"	3 @ 7'-7" 4 @ 7'-7"	107 -6	3 @ 41'-9" 3 @ 47'-10"	6 @ 7'-7"	183-2				
	8	8	8	3 @ 27'-11"	3 @ 7'-7"	106'-6"	3 @ 36'-6"	4 @ 7'-7"	139'-10"	3 @ 53'-11"	6 @ 7'-7"	207'-3"				
	9	2	9	3 @ 9'-3"	N/A	27'-9"	3 @ 12'-1"	N/A	36'-3''	3 @ 17'-11"	N/A	53'-9''				
	9	3	9	3 @ 12'-4"	N/A	37'-0"	3 @ 16'-2"	N/A	48'-6"	3 @ 24'-0"	3 @ 8'-7"	97'-9"				
	9	4 5	9 9	3 @ 15'-6" 3 @ 18'-8"	N/A N/A	46'-6" 56'-0"	3 @ 20'-4" 3 @ 24'-5"	2 @ 8'-7" 3 @ 8'-7"	78'-2'' 99'-0''	3 @ 30'-1" 3 @ 36'-2"	3 @ 8'-7" 4 @ 8'-7"	116'-0" 142'-10"				
	9	6	9	3 @ 21'-10"	2 @ 8'-7"	82'-8"	3 @ 24-5	3 @ 8'-7"	111'-6"	3 @ 42'-3"	4 @ 8 -7 5 @ 8'-7"	169'-8"				
	9	7	9	3 @ 25'-0"	3 @ 8'-7"	100'-9"	3 @ 32'-8"	4 @ 8'-7"	132'-4"	3 @ 48'-4"	6 @ 8'-7"	196'-6"				
	9	8	9	3 @ 28'-2"	3 @ 8'-7"	110'-3"	3 @ 36'-10"	4 @ 8'-7"	144'-10''	3 @ 54'-5"	6 @ 8'-7"	214'-9"				
	9	9	9	3 @ 31'-4"	3 @ 8'-7"	119'-9"	3 @ 40'-11"	5 @ 8'-7"	165'-8"	3 @ 60'-6"	7 @ 8'-7"	241'-7"				
	10	2	10 10	3 @ 9'-6" 3 @ 12'-8"	N/A	28'-6" 38'-0"	3 @ 12'-5" 3 @ 16'-6"	N/A N/A	37'-3" 49'-6"	3 @ 18'-5"	N/A 3 @ 9'-7"	55'-3'' 102'-3''				
	10	3	10	3 @ 12'-8" 3 @ 15'-10"	N/A	47'-6"	3 @ 16'-6" 3 @ 20'-8"	N/A 2 @ 9'-7"	49'-6" 81'-2"	3 @ 24'-6" 3 @ 30'-7"	3@9'-7" 3@9'-7"	120'-3"				
	10	5	10	3 @ 19'-0"	N/A	57'-0"	3 @ 24'-9"	3 @ 9'-7"	103'-0"	3 @ 36'-8"	4 @ 9'-7"	148'-4"				
	10	6	10	3 @ 22'-1"	2 @ 9'-7"	85'-5"	3 @ 28'-11"	3 @ 9'-7"	115'-6"	3 @ 42'-9"	5 @ 9'-7"	176'-2"				
	10	7	10	3 @ 25'-3"	3 @ 9'-7"	104'-6"	3 @ 33'-0"	4 @ 9'-7"	137'-4"	3 @ 48'-10"	6 @ 9'-7"	204'-0"				
	10	8	10	3 @ 28'-5"	3 @ 9'-7"	114'-0"	3 @ 37'-2"	4 @ 9'-7"	149'-10"	3 @ 54'-11"	6 @ 9'-7"	222'-3"				
	10 10	9 10	10 10	3 @ 31'-7" 3 @ 34'-9"	4 @ 9'-7" 4 @ 9'-7"	133'-1" 142'-7"	3 @ 41'-3" 3 @ 45'-5"	5 @ 9'-7" 5 @ 9'-7"	171'-8" 184'-2"	3 @ 61'-0" 3 @ 67'-1"	7 @ 9'-7" 8 @ 9'-7"	250'-1" 277'-11"				
	10	2	11	4 @ 9'-9"	N/A	39'-0"	4 @ 12'-9"	N/A	51'-0"	4 @ 18'-11"	N/A	75'-8"				
	11	3	11	4 @ 12'-11"	N/A	51'-8"	4 @ 16'-11"	N/A	67'-8"	4 @ 25'-0"	3 @ 10'-7"	131'-9"				
	11	4	11	4 @ 16'-1"	N/A	64'-4"	4 @ 21'-0"	2 @ 10'-7"	105'-2"	4 @ 31'-1"	3 @ 10'-7"	156'-1"				
	11	6	11	4 @ 22'-5"	2 @ 10'-7"	110'-10"	4 @ 29'-3"	3 @ 10'-7"	148'-9"	4 @ 43'-3"	5 @ 10'-7"	225'-11"				
	<u> </u>	8	11 11	4 @ 28'-9" 4 @ 35'-0"	3 @ 10'-7" 4 @ 10'-7"	146'-9" 182'-4"	4 @ 37'-6" 4 @ 45'-9"	4 @ 10'-7" 5 @ 10'-7"	192'-4" 235'-11"	4 @ 55'-5" 4 @ 67'-7"	6 @ 10'-7" 8 @ 10'-7"	285'-2" 355'-0"				
	11	10	11	4 @ 38'-2"	4 @ 10'-7"	195'-0"	4 @ 49'-10"	6 @ 10'-7"	262'-10"	4 @ 73'-8"	9 @ 10'-7"	389'-11"				
	12	2	12	4 @ 10'-0"	N/A	40'-0''	4 @ 13'-1"	N/A	52'-4"	4 @ 19'-5"	N/A	77'-8"				
	12	3	12	4 @ 13'-2"	N/A	52'-8"	4 @ 17'-3"	N/A	69'-0"	4 @ 25'-6"	3 @ 11'-7"	136'-9"				
	12	4	12	4 @ 16'-4"	N/A	65'-4"	4 @ 21'-4"	2 @ 11'-7"	108'-6"	4 @ 31'-7"	4 @ 11'-7"	172'-8"				
	12 12	6 8	12 12	4 @ 22'-8" 4 @ 29'-0"	2 @ 11'-7" 3 @ 11'-7"	113'-10" 150'-9"	4 @ 29'-7" 4 @ 37'-10"	3 @ 11'-7" 4 @ 11'-7"	153'-1" 197'-8"	4 @ 43'-9" 4 @ 55'-11"	5 @ 11'-7" 7 @ 11'-7"	232'-11" 304'-9"				
	12	10	12	4 @ 29-0	4 @ 11'-7"	187'-8"	4 @ 46'-1"	5 @ 11'-7"	242'-3"	4 @ 68'-1"	8 @ 11'-7"	365'-0"				
2-17-2017	12	12	12	4 @ 41'-8"	-	224'-7"	4 @ 54'-4"	6 @ 11'-7"	286'-10''		10 @ 11'-7"	436'-10"	(Sheet 2 of 2)			
USER NAME = Johnn [	DESIGNED - SAT		REVISED	) _								ATE FOR BOX CU		F.A.U. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
	CHECKED - SPS		REVISED				ATE OF ILLI					WOOD RD AT TH		87E. 3603	2010-141-B	СООК 114 46
	DRAWN - JN		REVISED		I	DEPARTME	NT OF TRAN	SPORTATIC	DN	UNICAG	SHEET					CONTRACT NO. 60N21
PLOT DATE = 1/31/2019 (	CHECKED - JMT		REVISED	· <u> </u>	I				I		SHEET	OF S-21 SHEETS		1	ILLINOIS FED.	ALD PROJECT

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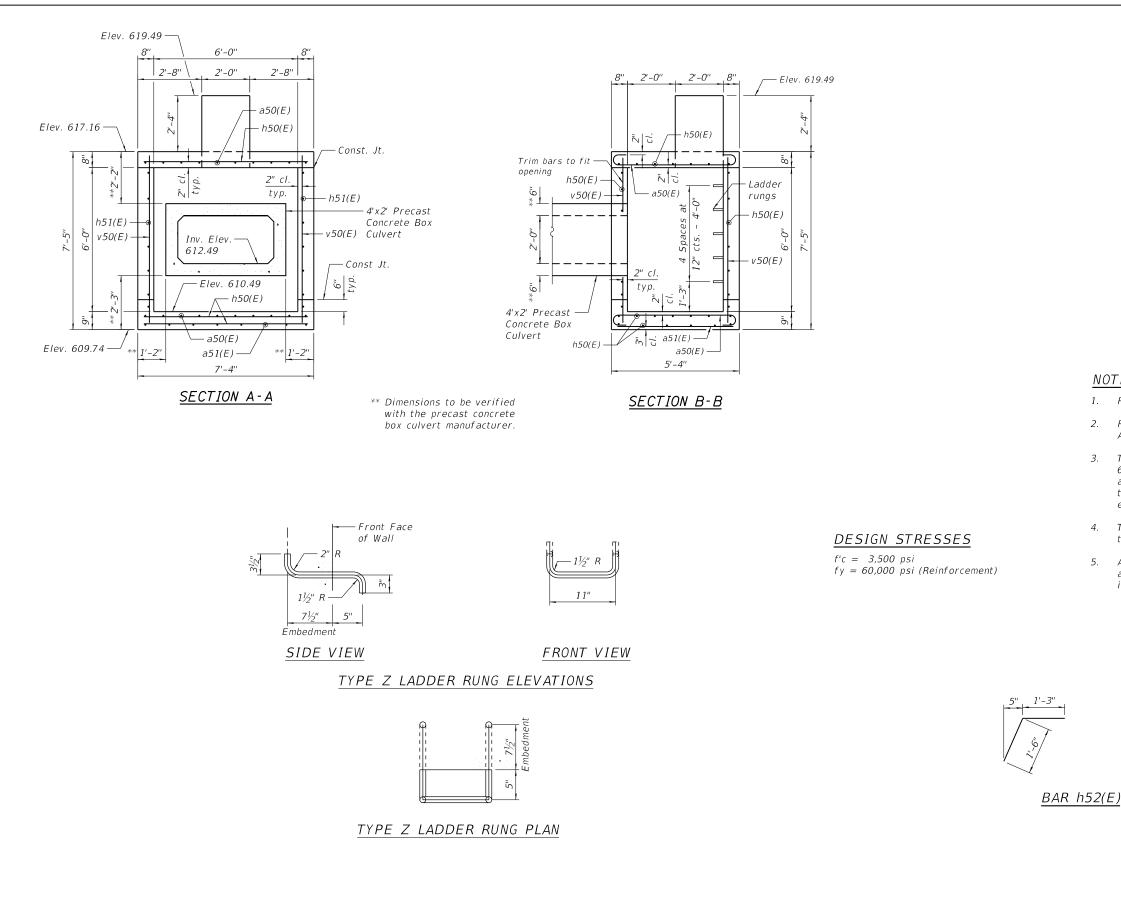
Accurate GROUP, INC,



– – – – – – – – – – – – – – – – – – –								
MODEL: Defat	•	USER NAME = Johnn	DESIGNED - SAT	REVISED -		JUNCTION CHAMBER D CHICAGO HEIGHTS-GLENWOOD F		
	🔺 Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS			
	GROUP, INC.	PLOT SCALE =	DRAWN – JN	REVISED -	DEPARTMENT OF TRANSPORTATION			
		PLOT DATE = 1/31/2019	CHECKED - JMT	REVISED -		SHEET OF S-21 S		

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OD RD AT THORN CREEK		2010-	141 <b>-</b> B		COOK	114	47
					CONTRAC	T NO. 6	0N21
S-21 SHEETS			ILLINOIS	FED. A	D PROJECT		



42								
DELL: Defai	•	USER NAME = Johnn	DESIGNED - SAT	REVISED -		JUNCTION CHAMBER DETAILS - II	F.A.U. SECTION	COUNTY TOTAL SHEET
	🗼 Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS		3603 2010-141-B	СООК 114 48
	GROUP, INC.	PLOT SCALE =	DRAWN - JN	REVISED -	DEPARTMENT OF TRANSPORTATION	CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK		CONTRACT NO. 60N21
EILE		PLOT DATE = 1/31/2019	CHECKED - JMT	REVISED -		SHEET OF S-21 SHEETS	ILLINOIS FE	D. AID PROJECT

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	DILL 0			
Bar	No.	Size	Length	Shape
a50(E)	24	#5	6'-2"	ſ
a51(E)	8	#5	5'-0"	
h50(E)	37	#5	7'-0"	
h51(E)	16	#5	5'-0"	
h52(E)	8	#5	2'-9"	
v50(E)	34	#5	7'-1"	
Concrete	Structures		Cu.Yd.	6.3
Reinforce Epoxy Co	ment Bars, ated	Pound	830	

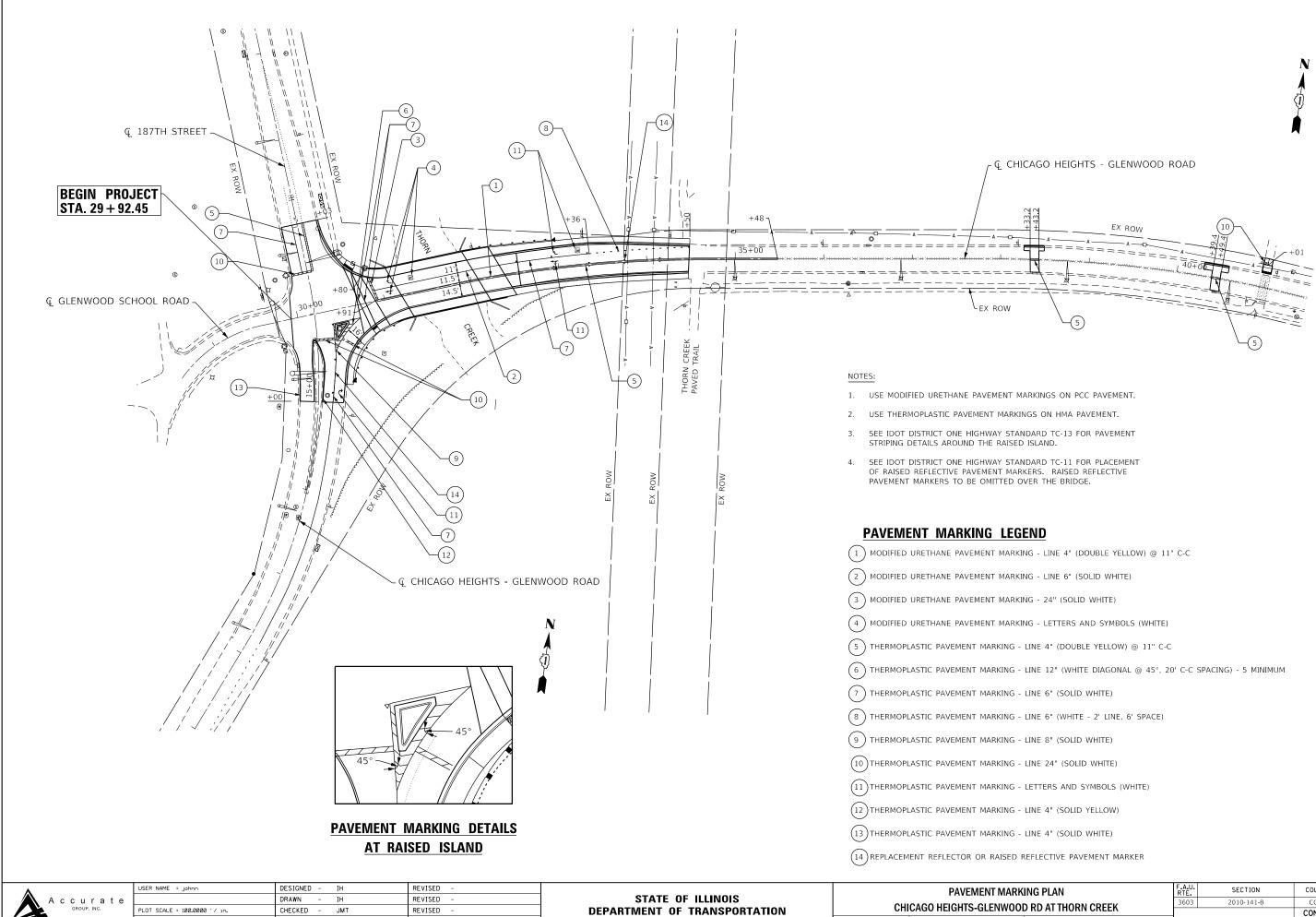
## BILL OF MATERIAL

## NOTES:

- 1. Reinforcement Bars designated (E) shall be epoxy coated.
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
- The ladder rungs shall be aluminum, conforming to ASTMB361-Alloy 6061-T6 or shall be ductile iron. Aluminum ladder rungs shall receive a heavy coat of bituminous paint or cold applied asphaltic mastic for the portion embedded in concrete. The coating must extend beyond the embedment at least two inches.
- The contractor may submit an alternative ladder rung detail for the Engineer's approval.
- 5. All costs for compacted subbase or CLSM, ladder rungs, and all appurtenances required to complete this work shall be included in the cost of "Concrete Structures".

. 7"	5	'-0''	7"
	-		
			$\mathbf{b}$

BAR a51(E)



PLOT DATE = 2/25/2019

- 01/24/2019

DATE

REVISED



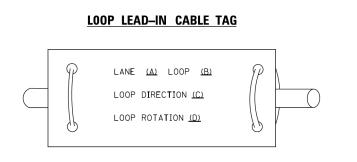
	PAVEMENT MARKING PLAN CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK							SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								2010-141-B	СООК	114	49
									CONTRACT	NO.	60N21
SCALE:	1''=50'	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

TRAFFIC	SIGNAL	LEGEND

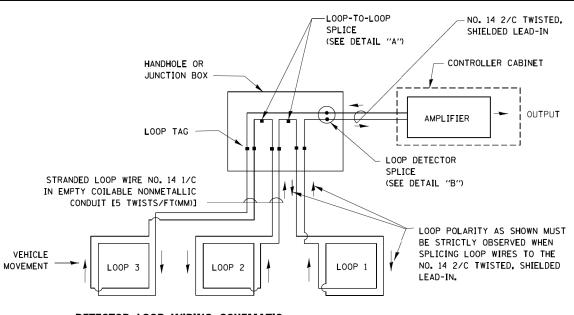
				(NOT TO SCALE)				
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET	$\bowtie$		HANDHOLE -SQUARE			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R	RR
COMMUNICATION CABINET	ECC	22	-ROUND			W/ TROOMANNABLE STORE TEAD		R         R           Y         Y           G         G <b>4</b> Y <b>4</b> Y <b>4</b> G <b>4</b> G
MASTER CONTROLLER	EMC	МС	HEAVY DUTY HANDHOLE -SQUARE -ROUND	H (H)	H H			
MASTER MASTER CONTROLLER	ЕММС	ммс	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		
UNINTERRUPTABLE POWER SUPPLY	4	Æ	JUNCTION BOX	$\bigcirc$	0	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		R   R     Y   G     G   Y     G   Y     G   Y     G   Y     G   Y     G   Y     G   Y     G   Y     G   Y     G   Y     G   Y
SERVICE INSTALLATION -(P) POLE MOUNTED	- <b>D</b> - <sup>P</sup>	- <b>-</b> P	RAILROAD CANTILEVER MAST ARM	X <del>oz X</del> X	XeIXX			
SERVICE INSTALLATION			RAILROAD FLASHING SIGNAL	X <del>o</del> X	X+X		P RB	P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$		RAILROAD CROSSING GATE	<u>XoX</u> >	X+1-	PEDESTRIAN SIGNAL HEAD		
TELEPHONE CONNECTION	ET	Т	RAILROAD CROSSBUCK	ъ Т	*	AT RAILROAD INTERSECTIONS		×
STEEL MAST ARM ASSEMBLY AND P	POLE O	•	RAILROAD CONTROLLER CABINET		<b>≥</b> ∢	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C C	♥ C ★ D
ALUMINUM MAST ARM ASSEMBLY AN	ID POLE		GALVANIZED STEEL			ILLUMINATED SIGN		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAI	RE O-Q	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			"NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORA	RY	• • BM	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	5	5
WOOD POLE	⊗	Θ	INTERSECTION ITEM	Ι	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED	$\sim$	<u> </u>
GUY WIRE		÷ ≻	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		(1#6)
SIGNAL HEAD	-1>	-	RELOCATE ITEM ABANDON ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	
SIGNAL HEAD WITH BACKPLATE	+>	+►	CONTROLLER CABINET AND			COAXIAL CABLE		— <u>c</u> —
SIGNAL HEAD OPTICALLY PROGRAMM	<i>I</i> ED −⊳ <sup>P</sup> +⊳ <sup>P</sup>	-► <sup>P</sup> +► <sup>P</sup>	FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	ords ords estimates	← F ↔ FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		
		<b>₽</b> ► <sup>F</sup> <b>₽</b> ► <sup>FS</sup>	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	<b>—6*</b> 18 <b>—</b>
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	12F	12F
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PU	SH BUTTON © © APS	Ø Ø APS	PREFORMED DETECTOR LOOP		P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	24F	24F
RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	$\begin{bmatrix} \underline{s} \end{bmatrix}  (\underline{s})$	5 5		36F	
VIDEO DETECTION CAMERA		V	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		IS (IS			
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR		as as	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	<u>i</u> i m i p i s t t t t t t t t t t t t t t t t t t t	≟ <sup>C</sup> ≟ <sup>M</sup> ≟ <sup>P</sup> ≟ <sup>S</sup>
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ	WIRELESS DETECTOR SENSOR	®	0	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECT	OR <	-	WIRELESS ACCESS POINT					
CONFIMATION BEACON	c−(]	•••						
WIRELESS INTERCONNECT	<del>0+1  </del>	●+++  <del>  </del>						
WIRELESS INTERCONNECT RADIO RE	PEATER	RR						
FILE NAME = USER NA ts05.dgn		- IP REVISED - IP REVISED		ATE OF ILLINOIS		DISTRICT ONE	F.A.U. RTE. SECTIO 3603 2010-14	SILLIS NO.
		- LP REVISED		IT OF TRANSPORTATION	ST/	ANDARD TRAFFIC SIGNAL DESIGN DETAILS	<b>TS-05</b>	CONTRACT NO.60N21

### LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

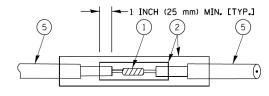


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP \*1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

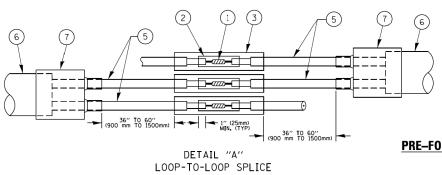


### DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



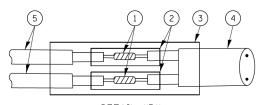
DETAIL "A" LOOP-TO-LOOP SPLICE



### LOOP DETECTOR SPLICE

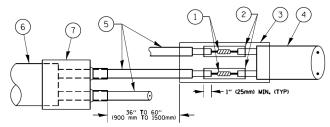
- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUF OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE S
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

2 SHT NO. S



### DETAIL "B" LOOP-TO-CONTROLLER SPLICE

### TYPE I LOOP

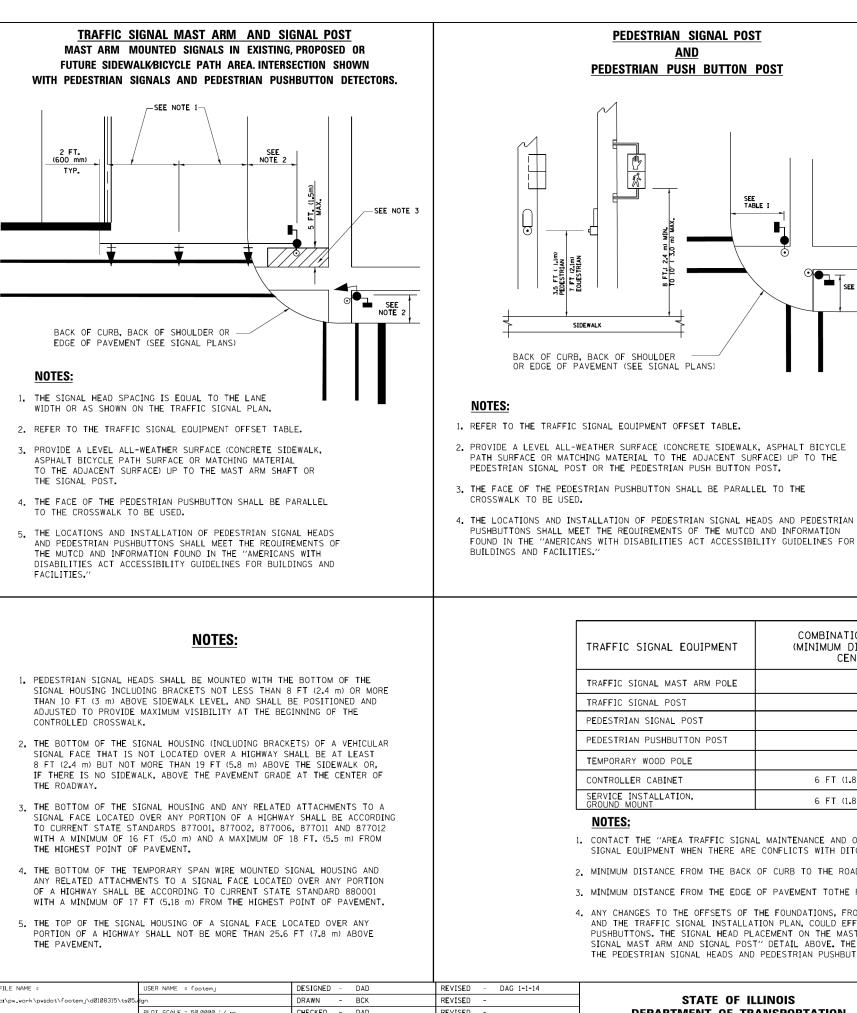


### PRE-FORMED LOOP

### DETAIL "B" LOOP-TO-CONTROLLER SPLICE

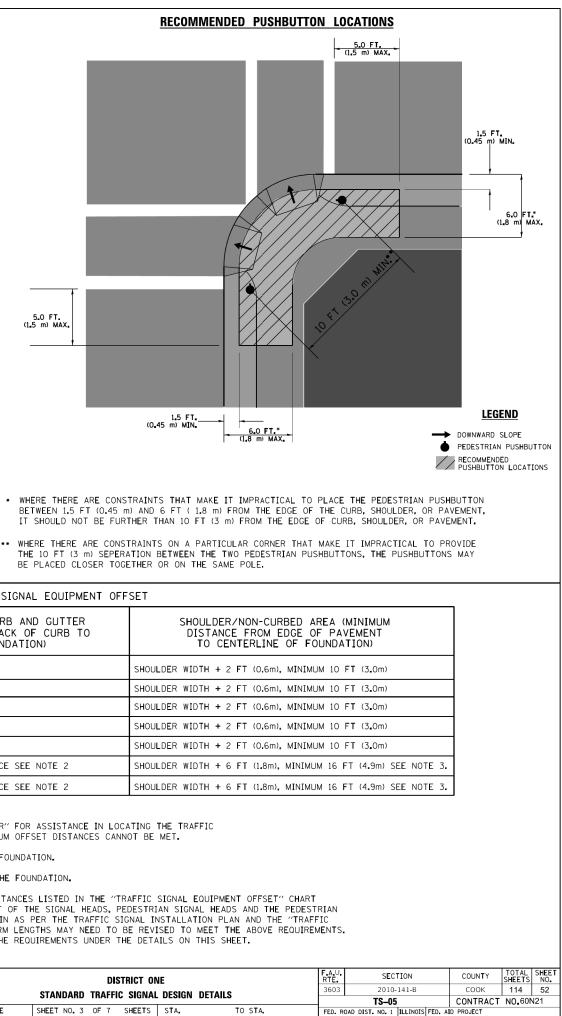
	(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
STAGGERED.	6 PRE-FORMED LOOP
R GRADE.	
R GRAD <b>E.</b>	T SEAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

ONE				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
1.1	DESIGN	DETAILS	3603	2010-141-B	соок	114	51		
	IAL DESIGN DETAILS			TS-05 CONTRA			CT NO.60N21		
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### TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOUL
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOUL
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOUL
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.

2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.

AND

SEE TABLE I

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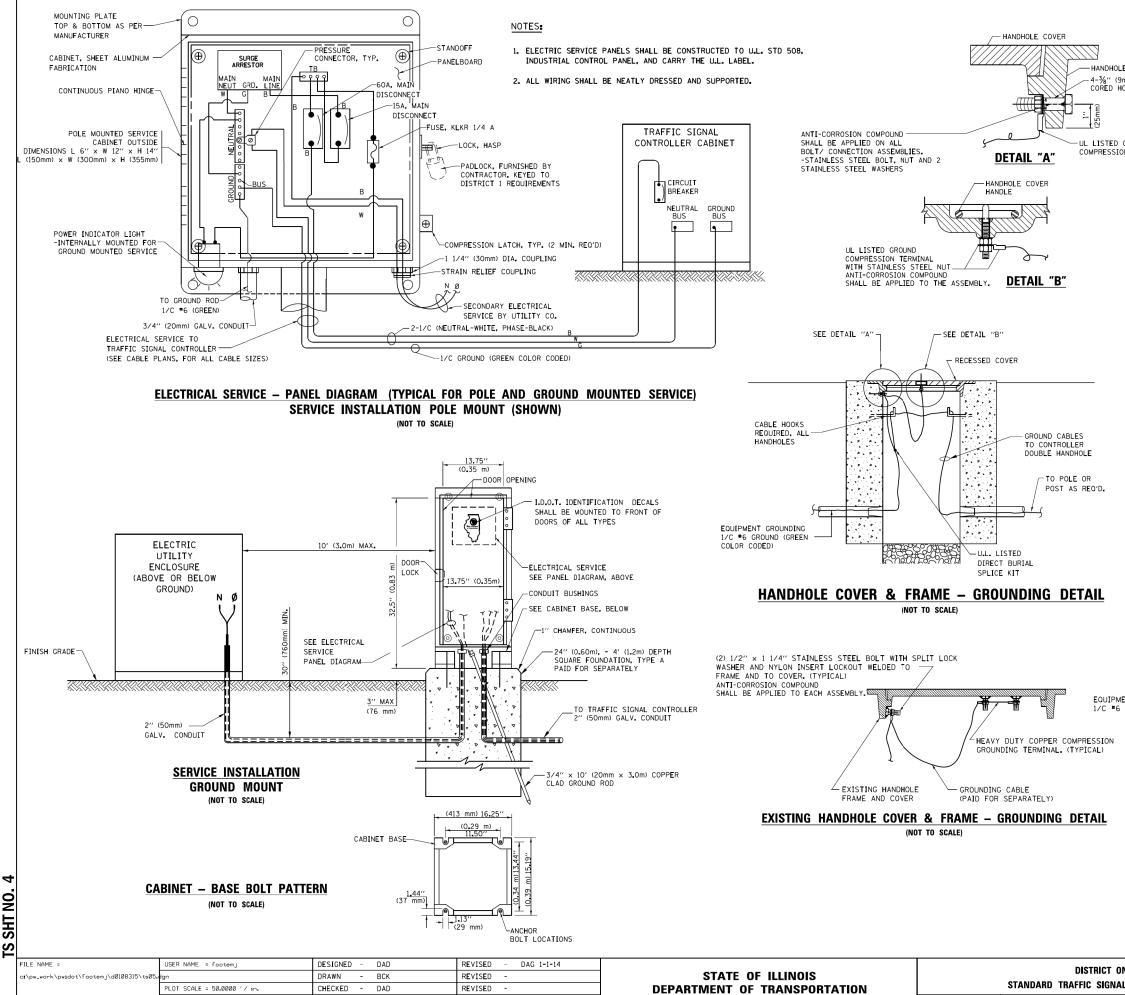
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SEE NOTE I

3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.

4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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· ·	:\pw_work\pwidot\footemj\d0108315\ts05.	dgn	DRAWN -	ВСК	REVISED -		STATE OF ILLINOIS			
		PLOT SCALE = 50.0000 ' / in.	CHECKED -	DAD	REVISED -		DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL	L D
		PLOT DATE = 1/13/2014	DATE -	10-28-09	REVISED -			SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	S



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PLOT DATE = 1/13/2014

DATE

10-28-09

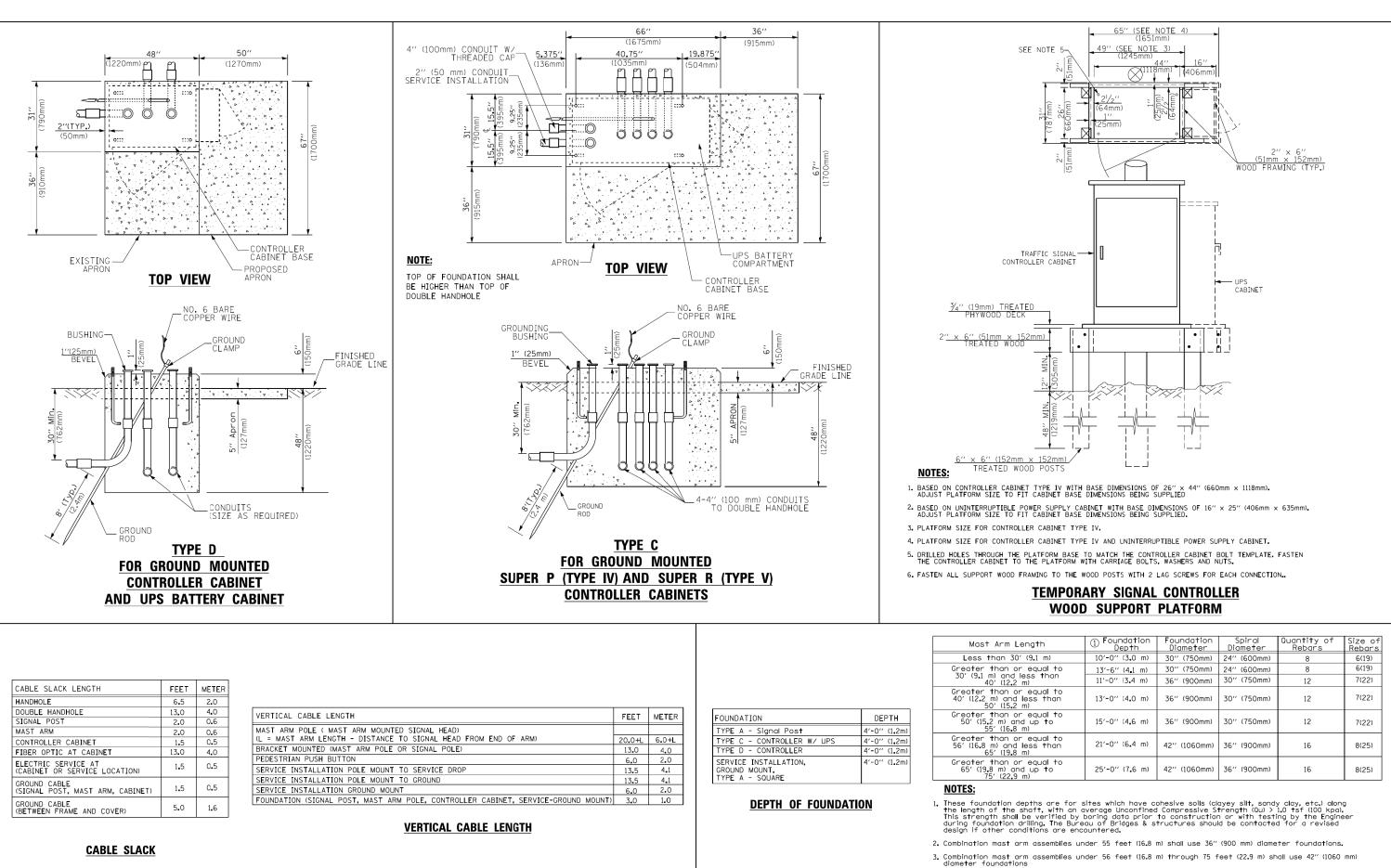
REVISED

SCALE: NONE SHEET NO. 4 OF 7 SHEETS

## NOTES: **GROUNDING SYSTEM**

UE FRAME 9mm) DIA., HOLES 0 GROUND ION TERMINAL	TYPE XLP, NO. RACEWAYS, THE IN A CONTINUOL ALL GROUNDING (HANDHOLE, POS 3/4" DIA. × 10 SHALL BE INST/ CONTROLLER CA AS INDICATED C SUCH AS SUB-SI ENGINEER SHALL ILLINOIS DEPAR (847) 705-4139. 2. THE NEUTRAL C	6 A.W.G., STRANE GROUNDING CABI JS MANNER AS S CONDUCTORS SH T, MAST ARM, C( '-O'' (20mm × 3. ALLED AT ALL P( BINET FOUNDATI( DN THE CABLE PI URFACE CONDITIC BE NOTIFIED O TMENT OF TRANS	CONSIST OF AN INSUL DED COPPER TO BE IN E SHALL BE INSTALL HOWN ON THE CABLE ALL BE BONDED TO M INTROLLER, ETC.). GRO DIN LONG, COPPER CL DIST FOUNDATIONS, PO IN AND ELECTRICAL S AN. IF THERE ARE A INS OR INSTALLATION R CONTACT THE BURE PORTATION DISTRICT HE GROUND CONDUCTO TALLATION. AT NO (	ISTALLED IN ED PLAN PROVIDED ETAL ENCLOSUF DUND ROD SHAL AD, ONE GROUN LE FOUNDATION ERVICE INSTAL NY SPECIAL CI PROBLEMS, TH AU OF TRAFFIC ONE AT	RE ID ROD IS, LATION DNDITION IE RESID	
	IN THE TRAFFIC CONDUCTORS BE		SHALL THE NEUTRAL	AND GROUND		
			DUCTORS SHALL TERM	INATE AT THE	GROUND	BUS
		R SHALL PROVID	E A GROUND CABLE W AND HANDHOLE FRAME		RS	
	13' (4.0m) OF SLAC	DVED EQUAL) BE BRONZE OR LL BE LOOPED SHALL BE PROV K SHALL BE PROV	COPPER, UL APPROV	OR APPROVED (ED. HANDHOLES DHOLES ANDHOLES.	EQUAL)	
OR AP	PY TYPE KC, K2C, PROVED EQUAL)	E / POST-GF (NOT TO SCALE)	1/C *6 GRC HEAVY DUTY EXOTHERMIC OR U.L. APPI (TYPICAL FO	ROVED CONNEC R ALL GROUND - (20mm × 3.0 UND ROD	OLOR CC CLAMP, TOR. RODS)	DED)
		F.A.U.			TOTAL	SHEET
ONE	TAUS	RTE. 3603	SECTION 2010-141-B	COUNTY COOK	SHEETS 114	53

Λ1	DESIGN DETAILS		2010-141-D							COOK	114	53
AL DESIGN DETAILS		TS-05							CONTRACT	NO.601	V21	
5	STA.	TO STA.	FED. R	OAD	DIST.	NO. 1	ILLINOI	FED.	AID	PROJECT		



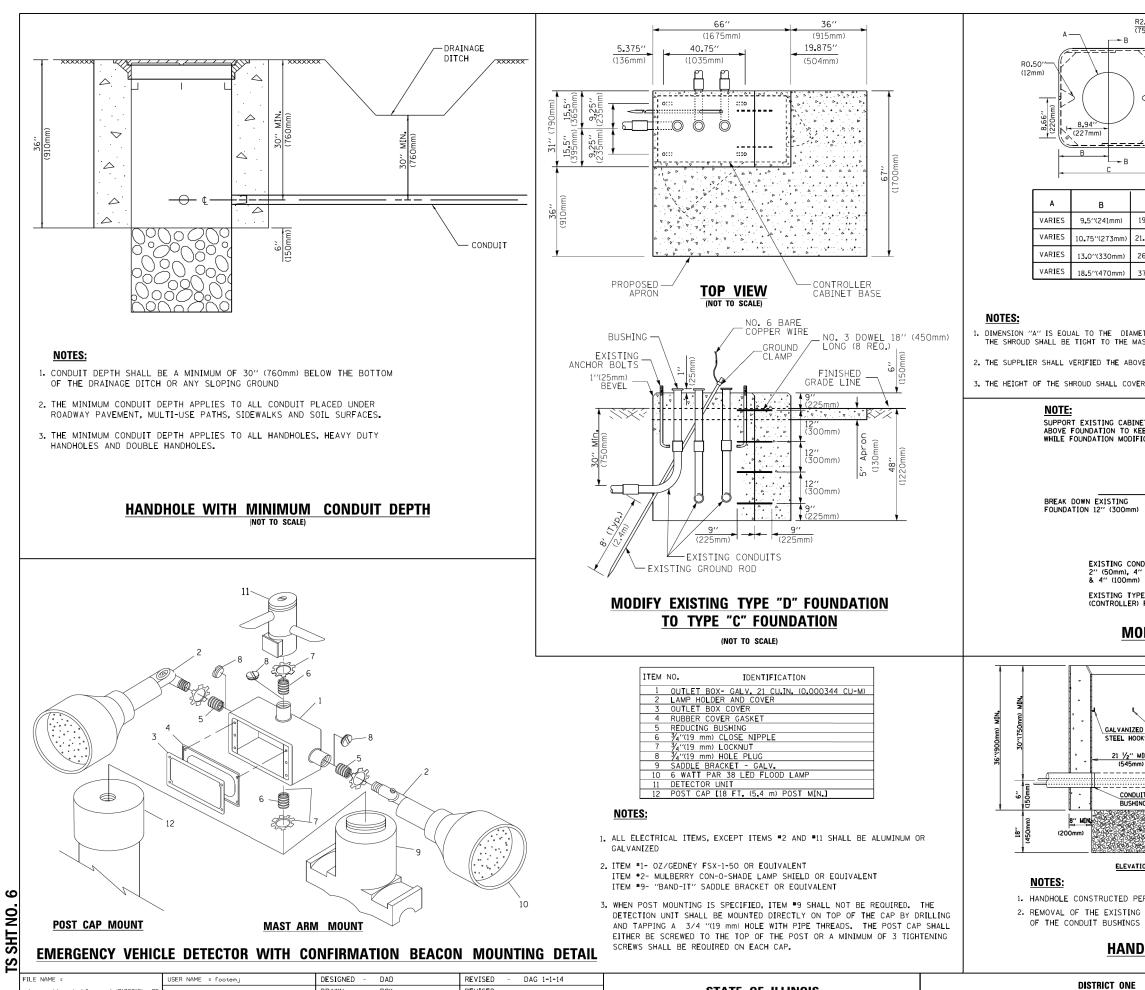
4. For mast arm assemblies with dual arms refer to state standard 878001.

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	PLOT SCALE = 50.0000 ′ / in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS			CONTRACT	T NO.601	N21
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS STA. TO STA.					
		work\pw1dot\footemj\d0108315\ts05.dgn PLOT SCALE = 50.0000 '/ in.	With L = rocketing         DESIGNED         DR0           _work\pwidot\footemj\d0108315\ts05.4gn         DR4WN         -         BCK           PLOT SCALE = 50.0000 // in.         CHECKED         DAD	work\pw1dot\footemj\d0108315\ts05.dgn DRAWN - BCK REVISED - PLOT SCALE = 50.0000 '/ 1n. CHECKED - DAD REVISED -	work\pwldot\footemj\d0100315\ts05.egn DRAWN - BCK REVISED - STATE OF ILLINOIS PLOT SCALE = 50.0000 ' / In. CHECKED - DAD REVISED - DEPARTMENT OF TRANSPORTATION	Lwork\pw1dot\footemj\d0108315\ts05.     Image: Marking and the second seco	Lwork\pwldot\footemj\d0108315\ts05.egn     DRAWN     BCK     REVISED     STATE OF ILLINOIS       PLOT SCALE = 50.0000 // In.     CHECKED     DAD     REVISED     DEPARTMENT OF TRANSPORTATION     STANDARD TRAFFIC SIGNAL DESIGN DETAILS	Aurork \pw1dot\footemj\d0108315\ts05     gn     DRAWN     BCK     REVISED     STATE OF ILLINOIS       PLOT SCALE = 50.0000 // In.     CHECKED - DAD     REVISED -     AD     REVISED -     AD     ACCOUNT OF TRANSPORTATION     STANDARD TRAFFIC SIGNAL DESIGN DETAILS     3603	work \pwidot\footemj\d0108315\ts05.dgn       DRAWN       BCK       REVISED       STATE OF ILLINOIS         PLOT SCALE = 50.0000 // in       CHECKED       DAD       REVISED       STATE OF TRANSPORTATION       STANDARD TRAFFIC SIGNAL DESIGN DETAILS       360       2010-141-B         TS-05	Instruction       DRAWN       BCK       REVISED       REVISED       STATE OF ILLINOIS         PLOT SCALE = 50.0000 // In.       CHECKED       DAD       REVISED       COOK       3603       2010-141-8       COOK         DEPARTMENT OF TRANSPORTATION       STANDARD TRAFFIC SIGNAL DESIGN DETAILS       TS=05       CONTRACT	NAME =         USER NAME = footemij         DESIGNED -         DAG         REVISED -         DAG         REVISED -         DAG         COUNTY         COUNTY

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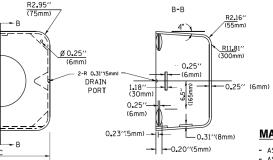
.eng <b>t</b> h	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
)′ (9 <b>.</b> 1 m)	10'-0'' (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
r equal to	13'-6" (4∎1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
less <b>t</b> han m)	11'-0'' (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
r equal to less than m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to nd up to m)	15'-0'' (4 <b>.</b> 6 m)	36'' (900mm)	30" (750mm)	12	7(22)
r equal to less than m)	21'-0" (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
r equal to nd up <b>t</b> o m)	25' <b>-</b> 0" (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

## DEPTH OF MAST ARM FOUNDATIONS, TYPE E



DRAWN ВСК REVISED **STATE OF ILLINOIS** c:\pw\_work\pw1dot\footemj\d0108315\ts0 DAD REVISED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 50.0000 '/ in. CHECKED -PLOT DATE = 1/13/2014 DATE 10-28-09 REVISED

STANDARD TRAFFIC SIGNA SHEET NO. 6 OF 7 SHEETS SCALE: NONE



### **MATERIAL:**

- ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

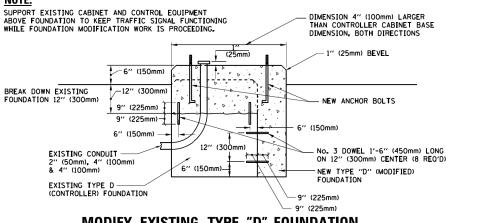
	С	HEIGHT	WEIGHT
1)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
m)	21.5''(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
m)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
n)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

## SHROUD

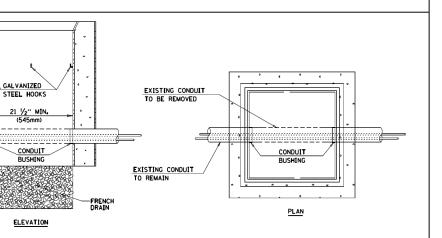
DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.

2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.

3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



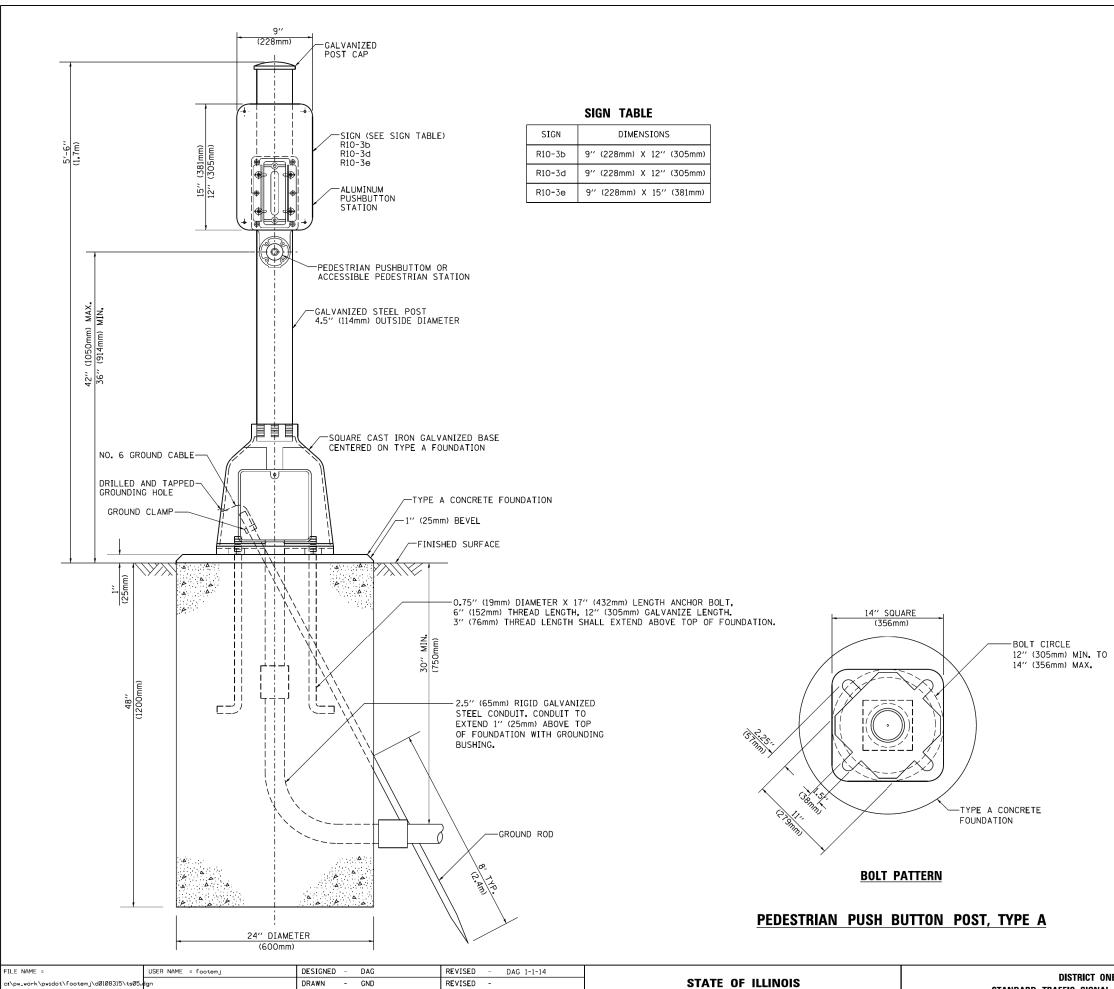
## **MODIFY EXISTING TYPE "D" FOUNDATION**



1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001. 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

## HANDHOLE TO INTERCEPT EXISTING CONDUIT

ONE			F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
	AL DESIGN DETAILS			2010-141-B	СООК	114	55					
AL DESIGN DETAILS				TS-05 CONTRAC			<b>J</b> 21					
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PLOT SCALE = 50.0000 '/ in.

PLOT DATE = 1/13/2014

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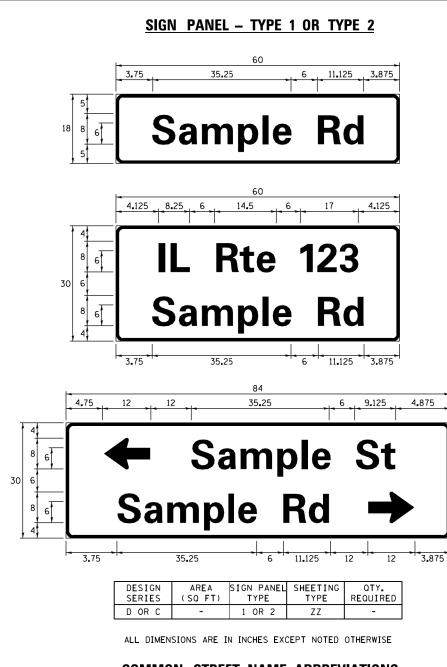
10/1/2012

DATE

7

STATE OF ILLINOIS REVISED STANDARD TRAFFIC SIGNA REVISED **DEPARTMENT OF TRANSPORTATION** SHEET NO. 7 OF 7 SHEETS SCALE: NONE REVISED

ONE AL DESIGN DETAILS			F.A.U. RTE	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
			3603	2010-	141-B	СООК	114	56
			_	TS05		CONTRACT NO.60N21		
S	STA.	TO STA.	FED. R	DAD DIST. NO. 1	ILLINOIS FED. A	D PROJECT		



## **COMMON STREET NAME ABBREVIATIONS** AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)
NAME	ADDREVATION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	C+	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	PI	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	S†	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

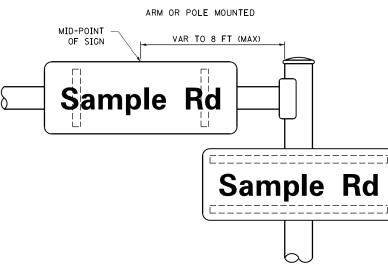
## **GENERAL NOTES**

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" × 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-O". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6". IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-O" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

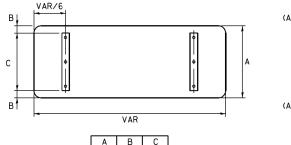
LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL SIGN SCREWS	PART #HPN053 (MED. CHANNEL) 1/4″ × 14 × 1″ H.W.H. *3
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	SELF TAPPING WITH NEOPRENE WASHER PART #HPNO34 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

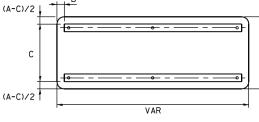
## **MOUNTING LOCATION**



## SUPPORTING CHANNELS



18" 2" 14" 30" 2" 24"



Α	В	С
18"	2″	12"
30"	2″	22"

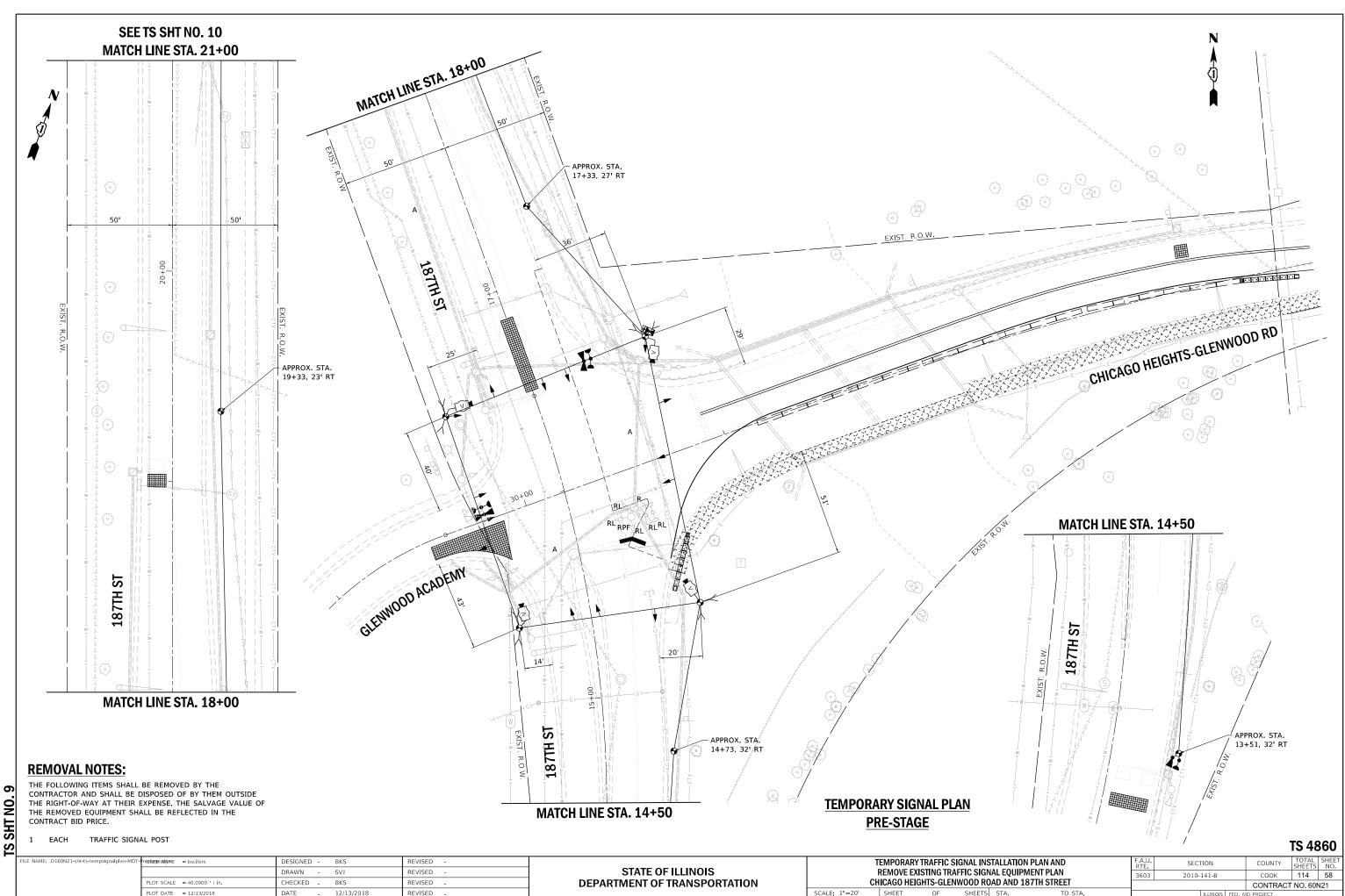
FILE NAME =	USER NAME = drivakosgn	DESIGNED - LP/IP	REVISED - LP 07/01/2015				DIS	STRICT ONE		F.A.U. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
pw:\\ILØ84EBIDINTEG.1ll1no1s.gov:PWIDOT\Do	uments\IDOT Offices\District 1\Projects\Dist	bt <b>0RAWN</b> \CADDeta\C <b>AUP</b> sheets\ts02.dgn	REVISED -	STATE OF ILLINOIS	MAST ARM         MOUNTED         STREET         NAME         SIGNS         3           SCALE1         SHEET         OF         SHEETS         STA.         TO         STA.         TO         STA.         TO         STA.         TO         STA.         STA.				3603	2010-141-B	СООК 114 57	
	PLOT SCALE = 50.0000 1/ in.	CHECKED – IP	REVISED -	DEPARTMENT OF TRANSPORTATION						TS-02	CONTRACT NO.60N21	
Default	PLOT DATE = 7/31/2015	DATE - 10/01/2014	REVISED -								AID PROJECT	

 $\infty$ SHT NO. S

## STANDARD ALPHABETS SPACING CHART

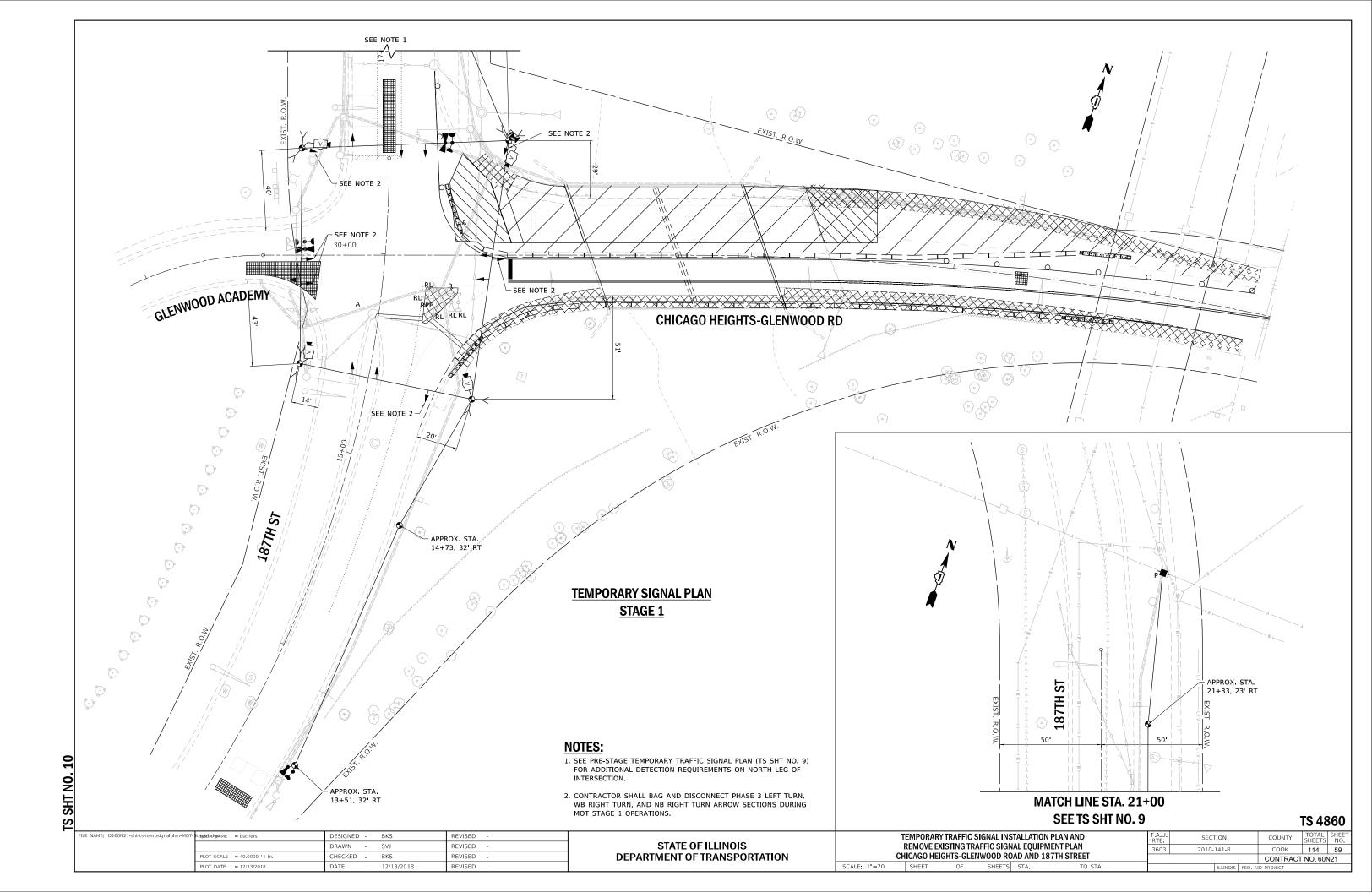
(8") UPPER CASE AND (6") LOWER CASE

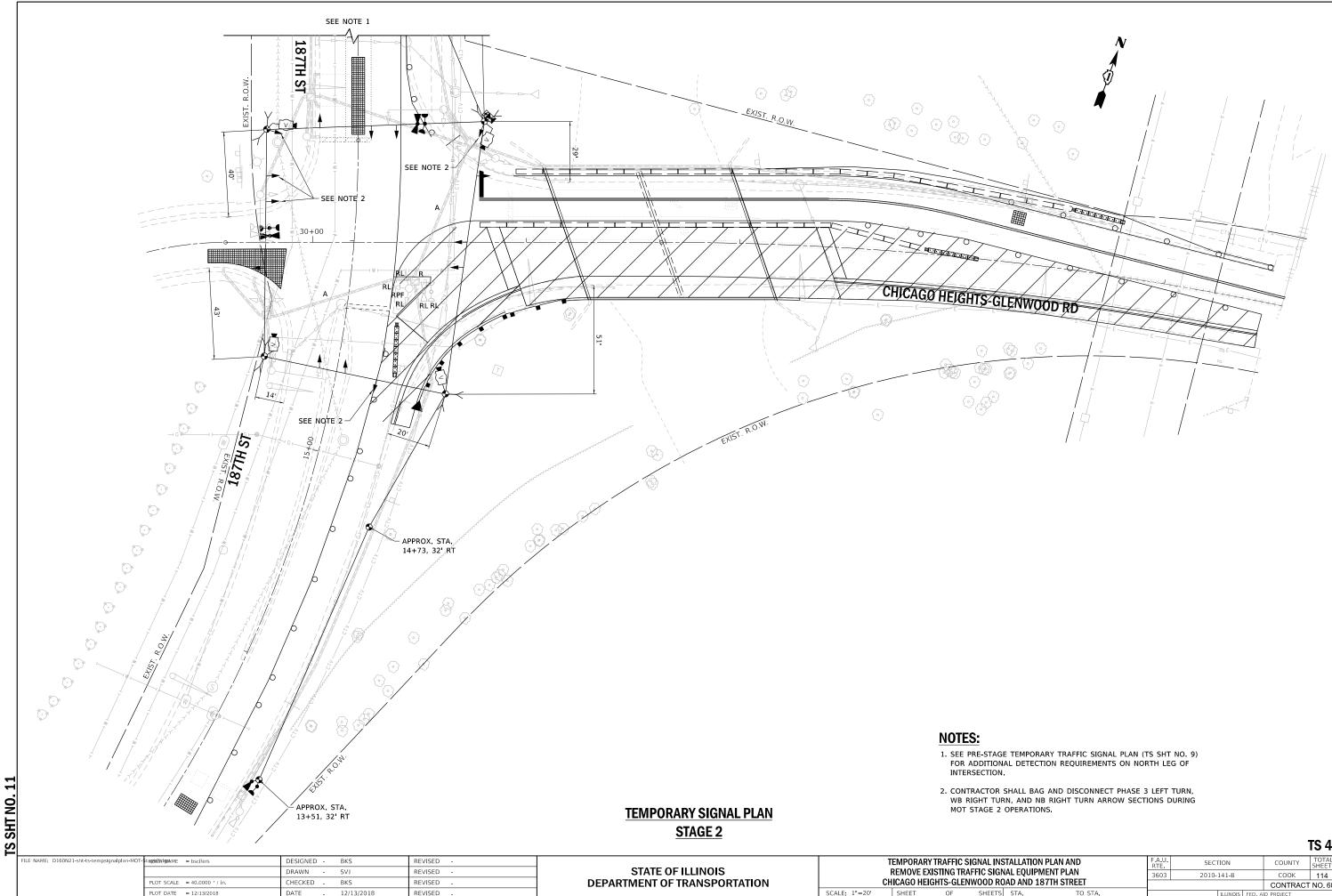
LEFT WIDTH RIGHT LEFT WIDTH RIGHT		FHWA SE	RIES "C"			FHWA SEF	RIES "D"	
JARACTER         SPACING         WIDTH (INCH)         SPACING (INCH)         WIDTH (INCH)         SPACING (INCH)         WIDTH (INCH)         SPACING (INCH)           A         0.240         5.122         0.240         A         0.240         6.804         0.240           B         0.880         4.482         0.720         C         0.800         5.446         0.800           D         0.880         4.482         0.720         D         0.960         4.962         0.2400           F         0.880         4.482         0.720         C         0.800         5.446         0.800           F         0.880         4.482         0.720         C         0.800         5.446         0.800           H         0.880         4.482         0.880         H         0.960         1.280         0.960           J         0.240         4.482         0.880         J         0.240         5.644         0.960           L         0.880         4.482         0.480         M         0.960         5.446         0.960           L         0.880         4.482         0.480         M         0.960         5.446         0.400           D								
B         0.880         4.482         0.720         C         0.800         5.446         0.800           C         0.720         4.482         0.720         C         0.800         5.446         0.800           F         0.880         4.082         0.720         D         0.960         5.446         0.800           F         0.880         4.082         0.720         G         0.960         4.962         0.240           H         0.880         4.482         0.880         H         0.960         1.280         0.960           J         0.720         4.482         0.880         H         0.960         1.280         0.960           J         0.240         4.082         0.880         K         0.960         5.446         0.960           L         0.880         4.482         0.480         K         0.960         5.446         0.960           M         0.880         4.482         0.720         P         0.960         5.446         0.960           N         0.880         4.482         0.480         R         0.960         5.446         0.400           N         0.880         4.482         0.480 <td>HARACTER</td> <td>SPACING (INCH)</td> <td></td> <td>SPACING</td> <td>CHARACTER</td> <td>SPACING</td> <td></td> <td>SPACING</td>	HARACTER	SPACING (INCH)		SPACING	CHARACTER	SPACING		SPACING
C         0.720         4.482         0.720         C         0.800         5.446         0.800           D         0.880         4.082         0.720         D         0.960         5.446         0.800           F         0.880         4.082         0.720         G         0.960         4.962         0.400           F         0.880         4.082         0.720         G         0.800         5.446         0.800           H         0.880         4.482         0.720         G         0.800         5.446         0.800           J         0.240         4.082         0.880         J         0.240         5.122         0.960           L         0.880         4.482         0.880         M         0.960         5.244         0.960           N         0.880         4.482         0.880         N         0.960         5.644         0.960           O         0.720         4.722         0.720         0         0.800         5.684         0.800           D         0.880         4.482         0.480         S         0.400         5.446         0.400           D         0.720         4.722         0.720 <td></td> <td>0.240</td> <td></td> <td>0.240</td> <td></td> <td>0.240</td> <td></td> <td>0.240</td>		0.240		0.240		0.240		0.240
	В	0.880	4.482	0.480	В	0.960	5.446	0.400
E         0.880         4.082         0.480         F         0.960         4.962         0.240           F         0.880         4.482         0.720         G         0.800         4.962         0.240           H         0.880         4.482         0.720         G         0.800         5.446         0.800           J         0.880         1.10         0.880         I         0.960         5.446         0.960           J         0.240         4.082         0.240         L         0.960         5.064         0.400           L         0.880         4.082         0.240         L         0.960         5.464         0.240           M         0.880         4.482         0.880         M         0.960         5.446         0.240           M         0.880         4.482         0.720         0         0.800         5.684         0.800           C         0.720         4.722         0.720         0         0.800         5.646         0.400           T         0.240         4.982         0.480         S         0.400         5.446         0.400           T         0.240         4.722         0.720 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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H         0.880         4.482         0.880         H         0.960         5.446         0.960           J         0.240         4.082         0.880         J         0.260         5.122         0.960           K         0.880         4.482         0.480         K         0.950         5.122         0.960           L         0.880         4.482         0.480         K         0.950         5.124         0.950           M         0.880         5.284         0.880         N         0.960         5.446         0.960           N         0.880         4.482         0.720         P         0.950         5.446         0.400           C         0.720         4.722         0.720         0         0.800         5.446         0.400           S         0.480         4.482         0.480         R         0.960         5.446         0.400           T         0.240         4.982         0.240         T         0.240         4.962         0.240           U         0.880         4.482         0.480         U         0.960         5.446         0.400           V         0.240         4.922         0.240 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $								
J         0,240         4,082         0,880         J         0,240         5,122         0,960           K         0,880         4,482         0,480         K         0,960         4,962         0,240           M         0,880         4,482         0,880         M         0,960         6,244         0,960           N         0,880         4,482         0,720         0         0,800         5,644         0,960           O         0,720         4,722         0,720         0         0,800         5,644         0,800           R         0,880         4,482         0,480         R         0,960         5,446         0,240           T         0,240         4,482         0,480         S         0,400         5,446         0,400           T         0,240         4,482         0,480         Y         0,240         4,962         0,240           U         0,880         4,482         0,480         Y         0,240         6,084         0,240           V         0,240         4,922         0,240         Y         0,240         5,446         0,400           V         0,240         4,122         0,240 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>					_			
K         0.880         4.482         0.480         K         0.960         5.504         0.400           L         0.880         4.482         0.880         N         0.960         6.244         0.960           N         0.880         4.482         0.880         N         0.960         5.446         0.960           O         0.720         4.722         0.720         P         0.960         5.446         0.240           O         0.720         4.722         0.720         0         0.800         5.644         0.800           R         0.880         4.482         0.480         R         0.960         5.446         0.400           S         0.480         4.482         0.480         S         0.400         5.446         0.400           T         0.240         4.920         0.880         U         0.960         5.446         0.400           U         0.880         4.482         0.480         Y         0.240         6.084         0.240           U         0.240         6.084         0.240         V         0.240         6.084         0.240           Y         0.240         5.122         0.240 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
L         0.880         4.082         0.240         L         0.960         4.962         0.240           M         0.880         5.284         0.880         M         0.960         5.446         0.960           O         0.880         4.482         0.880         N         0.960         5.446         0.960           O         0.720         4.722         0.720         0         0.800         5.684         0.800           R         0.880         4.482         0.480         R         0.960         5.446         0.240           O         0.240         4.482         0.480         R         0.960         5.446         0.400           S         0.480         4.482         0.240         T         0.240         4.962         0.240           U         0.880         4.482         0.240         V         0.240         6.844         0.240           W         0.240         4.952         0.240         W         0.240         5.446         0.400           Y         0.240         4.482         0.440         Z         0.400         5.446         0.400           Z         0.480         4.022         0.240 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
M         0.880         5.284         0.880         M         0.960         6.244         0.960           N         0.880         N         0.960         5.446         0.960           P         0.880         4.482         0.720         P         0.960         5.644         0.800           P         0.880         4.482         0.720         Q         0.800         5.644         0.400           R         0.880         4.482         0.480         R         0.960         5.446         0.400           S         0.480         4.482         0.480         S         0.400         5.446         0.400           T         0.240         4.982         0.240         T         0.240         4.962         0.240           W         0.240         4.982         0.240         V         0.240         6.084         0.240           X         0.240         4.722         0.240         Y         0.240         6.884         0.240           Y         0.240         5.122         0.240         Y         0.240         6.884         0.240           Z         0.480         4.082         0.480         Z         0.400								
N         0.880         4.482         0.880         N         0.960         5.446         0.960           0         0.720         4.722         0.720         0         0.800         5.684         0.800           0         0.880         4.482         0.720         0         0.800         5.684         0.800           0         0.880         4.482         0.720         0         0.800         5.684         0.400           S         0.480         4.482         0.480         R         0.960         5.446         0.400           S         0.480         4.482         0.480         T         0.240         4.962         0.240           U         0.880         4.482         0.240         V         0.240         6.084         0.240           V         0.240         4.952         0.240         V         0.240         5.446         0.240           X         0.240         5.122         0.240         Y         0.240         5.446         0.400           Z         0.480         4.492         0.480         Z         0.400         5.446         0.400           Z         0.480         4.922         0.240 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								
P         0.880         4.482         0.720         P         0.960         5.446         0.240           0         0.720         4.722         0.720         0         0.800         5.684         0.800           R         0.880         4.482         0.480         S         0.400         5.446         0.400           T         0.240         4.082         0.240         T         0.240         4.962         0.240           U         0.880         4.482         0.880         U         0.960         5.446         0.960           V         0.240         4.962         0.240         V         0.240         6.084         0.240           W         0.240         6.084         0.240         X         0.400         5.446         0.400           X         0.240         5.122         0.240         X         0.400         5.446         0.400           A         0.240         5.122         0.240         X         0.400         5.446         0.400           C         0.480         4.482         0.480         Z         0.400         4.562         0.720           D         0.720         4.082         0.480 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
0         0.720         4.722         0.720         0         0.800         5.684         0.800           R         0.880         4.482         0.480         R         0.960         5.446         0.400           S         0.480         4.482         0.480         T         0.240         4.962         0.240           U         0.880         4.482         0.880         U         0.960         5.446         0.240           V         0.240         4.952         0.240         W         0.240         6.984         0.240           W         0.240         6.084         0.240         W         0.240         5.446         0.240           Y         0.240         4.722         0.240         Y         0.240         5.446         0.400           Z         0.480         4.482         0.480         Z         0.400         5.446         0.400           Z         0.480         4.082         0.240         c         0.480         4.722         0.240           D         0.720         J         0.480         4.722         0.240         c         0.480         4.722         0.240           D         4.082								
R         0.880         4.482         0.480         R         0.960         5.446         0.400           S         0.480         4.482         0.480         S         0.400         5.446         0.400           U         0.880         4.482         0.880         U         0.960         5.446         0.240           W         0.240         4.962         0.240         V         0.240         5.084         0.240           W         0.240         4.952         0.240         W         0.240         7.124         0.240           X         0.240         4.722         0.240         X         0.400         5.446         0.400           Z         0.480         4.482         0.480         Z         0.400         5.446         0.400           G         0.320         3.842         0.480         D         0.400         4.562         0.720           d         0.480         4.082         0.720         d         0.480         4.722         0.240           G         0.480         4.082         0.720         g         0.480         4.822         0.800           G         0.480         4.082         0.720 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	R	0.880	4.482	0.480	R	0.960	5.446	0.400
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	S	0.480	4.482	0.480	S		5.446	0.400
V         0.240         4.962         0.240         V         0.240         6.084         0.240           W         0.240         4.722         0.240         X         0.240         7.124         0.240           X         0.240         4.722         0.240         X         0.400         5.446         0.400           Z         0.480         4.482         0.240         Y         0.240         5.446         0.400           Z         0.480         4.482         0.480         Z         0.400         4.562         0.720           b         0.720         4.082         0.480         D         0.800         4.802         0.480           c         0.480         4.082         0.720         d         0.480         4.722         0.240           d         0.480         4.082         0.720         g         0.480         4.802         0.800           f         0.320         2.480         0.160         f         0.320         2.882         0.160           g         0.480         4.082         0.720         J         0.800         1.722         0.720           l         0.720         1.120         0.720 <td>Т</td> <td>0.240</td> <td>4.082</td> <td>0.240</td> <td>Т</td> <td>0.240</td> <td>4.962</td> <td>0.240</td>	Т	0.240	4.082	0.240	Т	0.240	4.962	0.240
W         0.240         6.084         0.240         W         0.240         7.124         0.240           X         0.240         4.722         0.240         X         0.400         5.446         0.400           Y         0.240         5.122         0.240         Y         0.240         6.884         0.240           Z         0.480         4.482         0.480         Z         0.400         4.562         0.720           b         0.720         4.082         0.480         D         0.400         4.562         0.720           c         0.480         4.082         0.240         c         0.480         4.802         0.800           d         0.480         4.082         0.320         e         0.480         4.802         0.800           f         0.320         2.480         0.160         f         0.320         2.882         0.160           g         0.480         4.082         0.720         g         0.480         4.722         0.720           f         0.720         1.120         0.720         J         0.600         2.882         0.160           g         0.480         4.082         0.440 <td>U</td> <td>0.880</td> <td>4.482</td> <td>0.880</td> <td>U</td> <td>0.960</td> <td>5.446</td> <td>0.960</td>	U	0.880	4.482	0.880	U	0.960	5.446	0.960
X         0.240         4.722         0.240         X         0.400         5.446         0.400           Y         0.240         5.122         0.240         Y         0.240         6.884         0.240           Z         0.480         4.482         0.240         Y         0.240         5.446         0.400           a         0.320         3.842         0.640         a         0.400         4.802         0.480           b         0.720         4.082         0.480         b         0.800         4.802         0.480           d         0.480         4.082         0.720         d         0.480         4.802         0.800           e         0.480         4.082         0.720         g         0.480         4.802         0.800           f         0.320         2.480         0.160         f         0.320         2.882         0.160           h         0.720         4.082         0.720         g         0.480         4.802         0.800           h         0.720         1.20         0.720         1         0.800         1.22         0.720           l         0.720         1.22         0.160	٧	0.240	4.962	0.240	V	0.240	6.084	0.240
Y0.2405.1220.240Y0.2406.8840.240Z0.4804.4820.480Z0.4005.4460.400a0.3203.8420.640a0.4004.5620.720b0.7204.0820.480b0.8004.8020.640c0.4804.0020.240c0.4804.8020.800c0.4804.0820.720d0.4804.8020.800e0.4804.0820.720d0.4804.8020.320f0.3202.4800.160f0.3202.8820.160g0.4804.0820.720g0.4804.8020.800h0.7201.1200.720j0.0002.6420.800k0.7201.1200.720j0.0002.6420.800k0.7201.1200.720l0.8001.2800.800m0.7201.1200.720l0.8001.2800.800m0.7201.200.720l0.8001.2800.800m0.7201.200.720g0.4804.8220.720n0.7204.0820.480m0.8001.2800.800m0.7201.200.720g0.4804.8020.800m0.7204.0820.480m0.8003.0420.480 <t< td=""><td></td><td></td><td></td><td></td><td>W</td><td></td><td></td><td></td></t<>					W			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								
a         0.320         3.842         0.640         a         0.400         4.562         0.720           b         0.720         4.082         0.480         b         0.800         4.802         0.480           c         0.480         4.082         0.240         c         0.480         4.802         0.240           d         0.480         4.082         0.720         d         0.480         4.802         0.800           e         0.480         4.082         0.720         g         0.480         4.802         0.320           f         0.320         2.480         0.160         f         0.320         2.882         0.160           h         0.720         4.082         0.720         g         0.480         4.802         0.800           h         0.720         1.120         0.720         1         0.800         1.722         0.720           n         0.720         1.120         0.720         1         0.800         7.926         0.720           n         0.720         4.082         0.440         m         0.800         4.822         0.480           p         0.480         4.082         0.480 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
b $0.720$ $4.082$ $0.480$ b $0.800$ $4.802$ $0.480$ c $0.480$ $4.082$ $0.720$ d $0.480$ $4.722$ $0.240$ d $0.480$ $4.082$ $0.720$ d $0.480$ $4.722$ $0.240$ g $0.480$ $4.082$ $0.720$ d $0.480$ $4.722$ $0.320$ g $0.480$ $4.082$ $0.720$ g $0.480$ $4.802$ $0.800$ h $0.720$ $4.082$ $0.640$ h $0.800$ $4.722$ $0.720$ l $0.720$ $4.082$ $0.640$ h $0.800$ $4.722$ $0.720$ l $0.720$ $1.120$ $0.720$ $1$ $0.800$ $4.802$ $0.800$ k $0.720$ $4.322$ $0.160$ k $0.800$ $5.122$ $0.160$ k $0.720$ $4.322$ $0.160$ k $0.800$ $7.720$ $0.720$ n $0.720$ $4.322$ $0.160$ m $0.800$ $7.720$ $0.720$ n $0.720$ $4.082$ $0.640$ m $0.800$ $7.720$ $0.720$ n $0.720$ $4.082$ $0.480$ $0.480$ $4.882$ $0.480$ p $0.720$ $4.082$ $0.480$ $p$ $0.800$ $4.802$ $0.480$ g $0.480$ $4.082$ $0.480$ $p$ $0.800$ $4.802$ $0.480$ g $0.480$ $4.082$ $0.720$ $p$ $0.800$ $4.802$ $0.800$ r $0.720$ $4.08$								
c         0.480         4.002         0.240         c         0.480         4.722         0.240           d         0.480         4.082         0.720         d         0.480         4.802         0.800           e         0.480         4.082         0.320         e         0.480         4.802         0.320           f         0.320         2.480         0.160         f         0.320         2.882         0.160           g         0.480         4.082         0.720         g         0.480         4.802         0.800           h         0.720         4.082         0.640         h         0.800         4.722         0.720           i         0.720         1.120         0.720         j         0.000         2.642         0.800           k         0.720         4.322         0.160         k         0.800         1.280         0.800           m         0.720         4.322         0.640         m         0.800         7.926         0.720           n         0.720         4.082         0.480         p         0.800         4.882         0.480           q         0.480         4.082         0.720 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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SCALE: 1"=20' SHEET SHEETS STA. OF

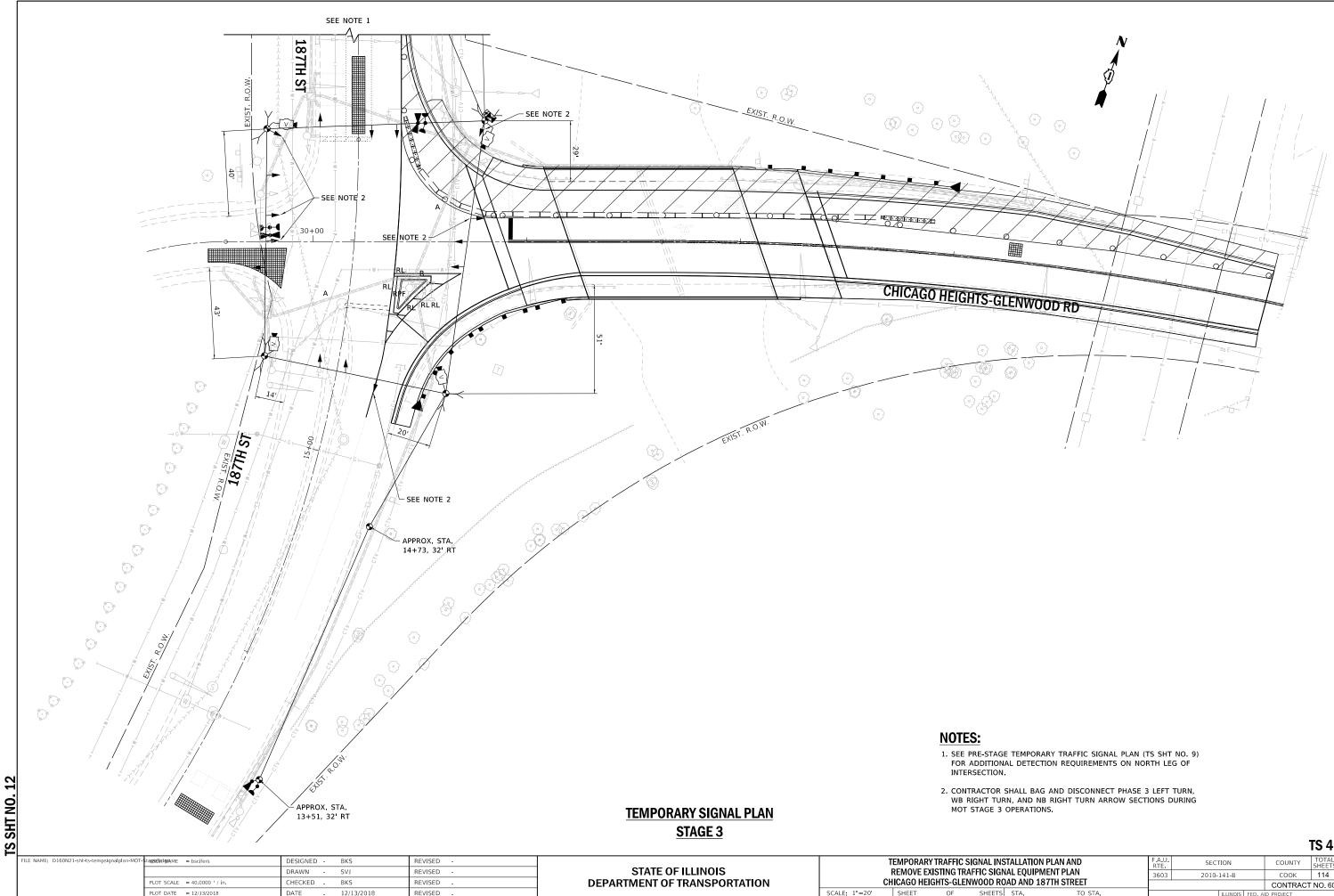




SCALE: 1"=20' SHEET OF SHEET

TS 4860

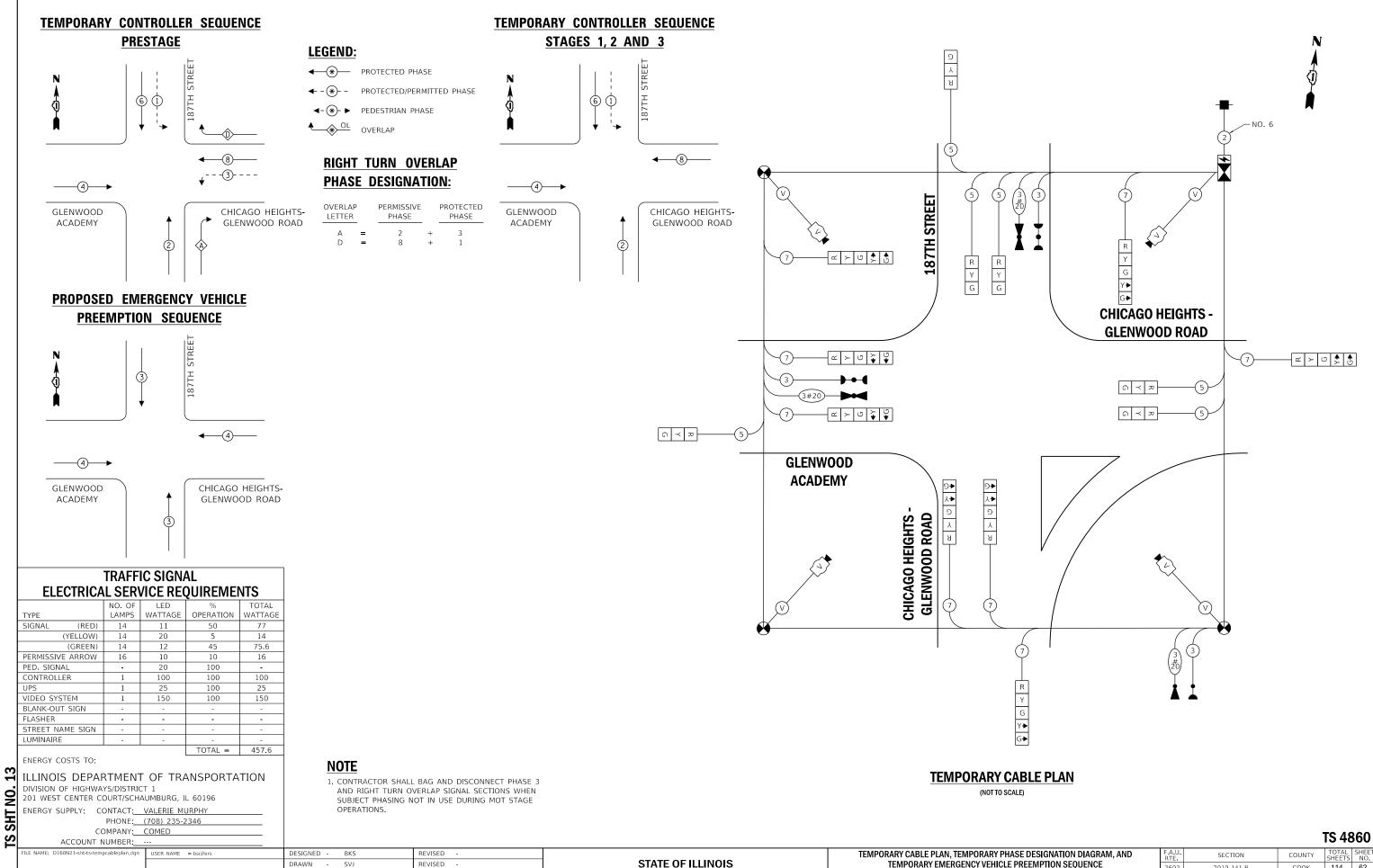
NSTALLATION PLAN AND	F.A.U. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
GNAL EQUIPMENT PLAN	3603	2010-	141-B	соок 114 (			
ROAD AND 187TH STREET					CONTRACT	NO. 601	v21
TS STA. TO STA.			ILLINOIS	FED. AI	ID PROJECT		



SCALE: 1"=20' SHEET OF SHEET

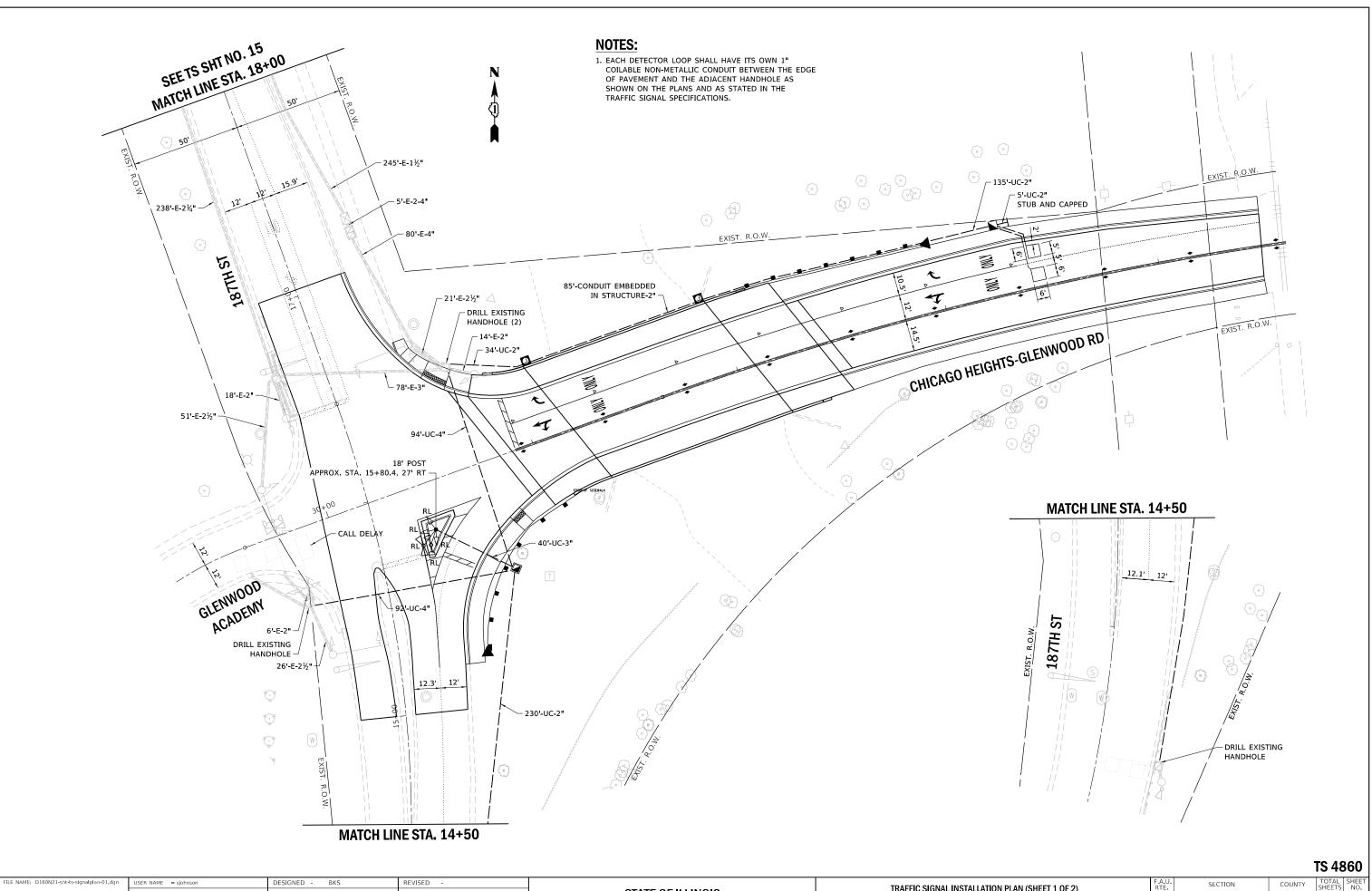
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NSTALLATION PLAN AND	F.A.U. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
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ROAD AND 187TH STREET					CONTRACT	NO. 601	v21
TS STA. TO STA.			ILLINOIS	FED, AI	D PROJECT		



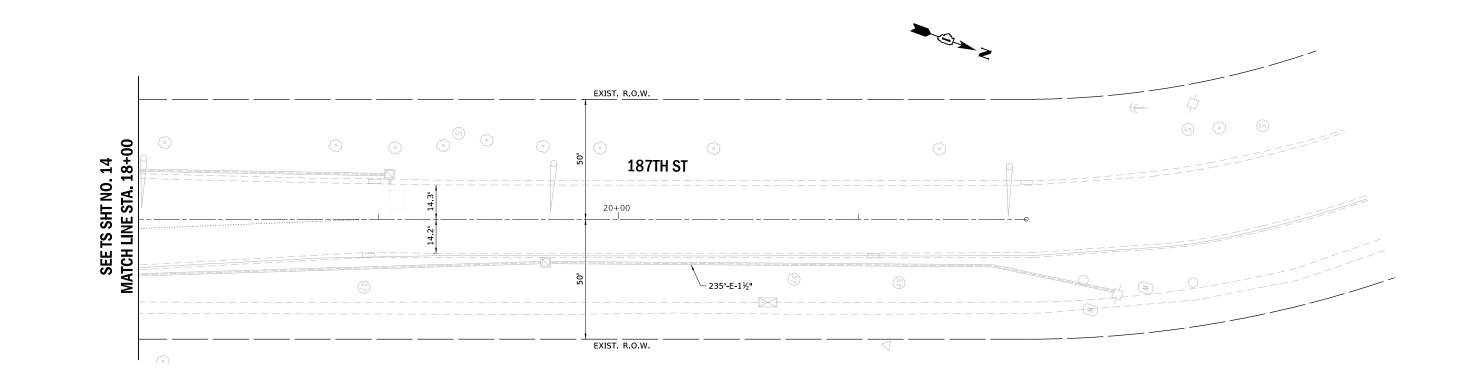
FILE NAME: D160N21-sht-ts-tempcableplan.dgn	USER NAME = bscifers	DESIGNED - BKS	REVISED -		TEMPORAR	CABLE PLAN	, TEMPO	RARY PHA	SE
		DRAWN - SVJ	REVISED -	STATE OF ILLINOIS	TEN	IPORARY EME	RGENCY	VEHICLE F	PR
	PLOT SCALE = 2.0000 / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	CH	IICAGO HEIGH	ITS-GLEN	IWOOD RO	JA
	PLOT DATE = 12/13/2018	DATE - 12/13/2018	REVISED -		SCALE:	SHEET	OF	SHEETS	

IASE DESIGNATION DIAGRAM, AND	F A U RTE	SECT	TION		COUNTY	SHEETS	NO.	
E PREEMPTION SEQUENCE	3603	2010-	141-B		СООК	114	62	
ROAD AND 187TH STREET					CONTRAC	T NO. 60I	N21	
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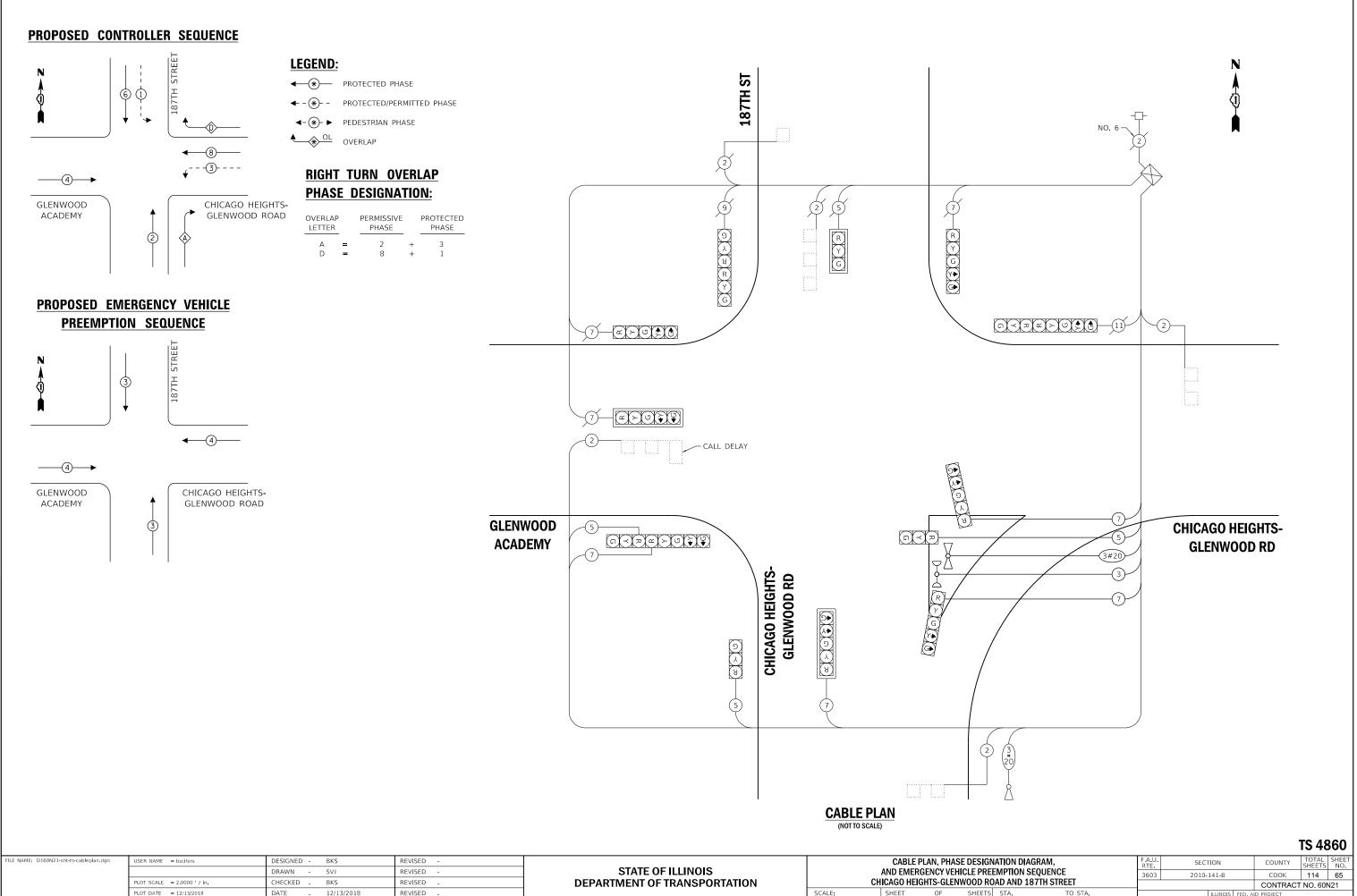
ľ	FILE NAME: D160N21-sht-ts-signalplan-01.dgn	USER NAME = sjohnson	DESIGNED - BKS	REVISED -			TRAFFIC S		STALLATION PLAN (SI		F.A.U. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
			DRAWN - SVJ	REVISED -	STATE OF ILLINOIS						3603	2010-141-B	соок 114 63
		PLOT SCALE = 40.0000 / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION					101			CONTRACT NO. 60N21
		PLOT DATE = 1/18/2019	DATE - 1/18/2019	REVISED -		SCALE: 1"=20'	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT



**TS SHT NO. 15** 

FILE NAME: D160N21-sht-ts-signalplan-02.dgn	USER NAME = bscifers	DESIGNED -	BKS	REVISED -			TRAFFIC	SIGNAL INS	STALLATION PLAN (S		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
		DRAWN -	SVJ	REVISED -	STATE OF ILLINOIS				ENWOOD ROAD AND		3603	2010-141-B	соок	114 64
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	BKS	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. 60N21
	PLOT DATE = 12/13/2018	DATE -	12/13/2018	REVISED -		SCALE: 1"=20'	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

# TS 4860



D160N21-sht-ts-cableplan.dgn	USER NAME = bscifers	DESIGNED - BKS	REVISED -			CABLE PL/	AN, PHASE DESIG	ANATION D
		DRAWN - SVJ	REVISED -	STATE OF ILLINOIS		AND EMERGE	ENCY VEHICLE PRI	EEMPTION
	PLOT SCALE = 2.0000 / in	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	CH	ICAGO HEIGH	ITS-GLENWOOD R	OAD AND
	PLOT DATE = 12/13/2018	DATE - 12/13/2018	REVISED -		SCALE:	SHEET	OF SHEETS	S STA.
								-

# **SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2° DIA.	FOOT	404
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 DIA.	FOOT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4 DIA.	FOOT	186
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	85
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	2
HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	290
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	980
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1280
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1150
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	4
DETECTOR LOOP, TYPE I	FOOT	62
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3275
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	775
ROD AND CLEAN EXISTING CONDUIT	FOOT	50
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

FILE NAME: D160N21-sht-ts-MAM_SOQ	IN USER NAME = bscifers	DESIGNED - BKS	REVISED -				SCHED	OULE OF QUANTITIES		F.A.U. BTE	SECTION	COUNTY	TOTAL	. SHEET
		DRAWN - SVJ	REVISED -	STATE OF ILLINOIS					187TH STREET	3603	2010-141-B	соок	114	66
	PLOT SCALE = 2.0000 ' / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		GIIICAGO IIL	Iumo-uli		187 III SIREEI			CONTRAC	T NO. 60	JN21
	PLOT DATE = 3/15/2019	DATE - 3/15/2019	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	. AID PROJECT		

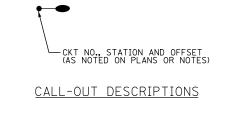
# TS 4860

## SYMBOL LIST

EXISTING VILLAGE OF GLENWOOD LIGHT POLE TO REMAIN 

- EXISTING VILLAGE OF GLENWOOD 35 FOOT, 11.5 INCH BOLT CIRCLE LIGHT POLE RE-INSTALLED RI ON NEW FOUNDATION INCLUDED IN "REMOVE AND RE-ERECT EXISTING LIGHTING UNIT" PAY ITEM.
- EXISTING VILLAGE OF GLENWOOD 35 FOOT, 11.5 INCH BOLT CIRCLE LIGHT POLE TO BE REMOVED AND RELOCATED ON NEW FOUNDATION INCLUDED IN "REMOVE AND RE-ERECT EXISTING LIGHTING UNIT" PAY ITEM.
- LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15 FOOT MAST ARM · · · · · AND TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT, 47.5' M.H., TYPE MCIII, UNLESS NOTED OTHERWISE
- TEMPORARY WOOD POLE, 60 FEET, CLASS 4 • т
- 0 PROPOSED LIGHTING JUNCTION BOX. TYPE AND SIZE AS NOTED
- GROUND ROD
- PROPOSED UNIT DUCT. NO. AND SIZE OF WIRES AS NOTED ON BILL OF MATERIALS
- F EXISTING UNIT DUCT TO REMAIN
- EXISTING UNIT DUCT TO BE ABANDONED IN PLACE \_\_\_\_X\_\_\_\_
- WIRING IN CONDUIT EMBEDDED IN STRUCTURE AS NOTED ON PLANS
- TEMPORARY AERIAL CABLE. NO. AND SIZE OF WIRES AS NOTED ON PLANS — A —
- PROPOSED RGS CONDUIT WITH UNIT DUCT. CONDUIT DIAMETER AND LENGTH AS SHOWN ON PLANS.

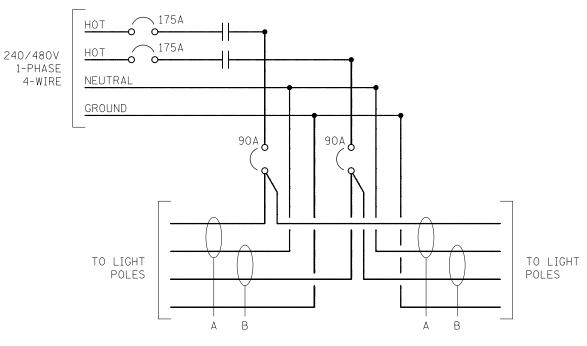
		CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC
ABBREV A	ATIONS AMPERES	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"
AC AC	AERIAL CABLE ALTERNATING CURRENT	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
C C CKT	CONDUCTOR CONDUIT CIRCUIT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4
DIA	DIAMETER EXISTING LIGHTING UNIT TO REMAIN	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2
FT FT	FEET FOOT	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE
GND HPS IDOT	GROUND HIGH PRESSURE SODIUM ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT
IN LT	INCHES LEFT	LIGHT POLE FOUNDATION, 24" DIAMETER
MA MH	MAST ARM MOUNTING HEIGHT	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE
NO P PC	NUMBER PUSHED PHOTOCELL CONTROL	REMOVAL OF TEMPORARY LIGHTING UNIT
PH	PHASE POLYVINYL CHLORIDE	REMOVAL OF POLE FOUNDATION
RGSC	RIGID GALVANIZED STEEL CONDUIT TO BE REMOVED AND RELOCATED	LUMINAIRE SAFETY CABLE ASSEMBLY
RL ROW RT	TO BE REINSTALLED RIGHT OF WAY RIGHT	REMOVE TEMPORARY WOOD POLE
SS	STAINLESS STEEL STAINON	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM
T TYP	TEMPORARY TYPICAL	TEMPORARY WOOD POLE, 60 FOOT, CLASS 4
UNO	UNIT DUCT UNLESS NOTED OTHERWISE	UNDERGROUND CONDUIT, STAINLESS STEEL, 2" DIA.
USE V W	UNDERGROUND SERVICE ENTRANCE VOLTS WATTS	MAINTENANCE OF TEMPORARY LIGHTING SYSTEM
W XLP	WIRES CROSS-LINKED POLYETHYLENE	REMOVE AND RE-ERECT EXISTING LIGHTING UNIT

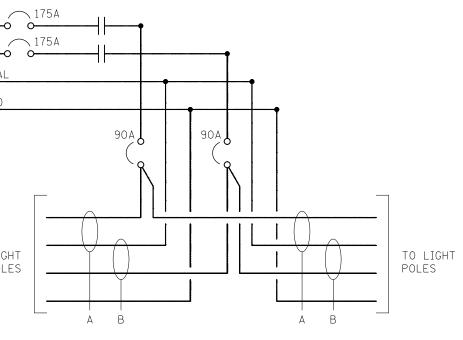


**BILL OF MATERIAL - LIGHTING** 

DESCRIPTION

UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.





VILLAGE OF GLENWOOD LIGHTING CONTROLLER #1 WIRING DIAGRAM

## GENERAL NOTES

QUANTITY

140

110

2

735

120

360

490

3

33

3

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NAME =		USER NAME = sdiez	DESIGNED - IB	REVISED -	STATE OF ILLINOIS				SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	KNIGHT	DRAWN - IB	REVISED -		PROPOSED LIGHTING PLAN			2010-141-B	СООК	114 67	
FILE	Engineers & Architects	PLOT SCALE = 100.00 '/ in. PLOT DATE = 3/5/2019	CHECKED - KEA DATE 03/07/19	REVISED - REVISED -		SCALE: - SHEET NO. 1 OF 3 SHEETS STA. TO STA.			ET-01 C		CT NO. 60N21
L		FEOT DHIE - 3/3/2019	BATE 03/01/13	NEVISED		JUALL.	SHEET NO. 1 OF 5 SHEETS STR. TO STR.	FED. ROAD DI	ST. NO. I  ILLINUIS FED.	AID PROJECT	

1. THE MATERIALS AND INSTALLATION METHODS SHALL COMPLY WITH THE LATEST CODES, STANDARDS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION. ALL WORK SHOWN ON THE PLANS AND DESCRIBED ELSEWHERE SHALL CONFORM TO THE LATEST NATIONAL ELECTRICAL CODE.

2. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE THE START OF ROADWAY

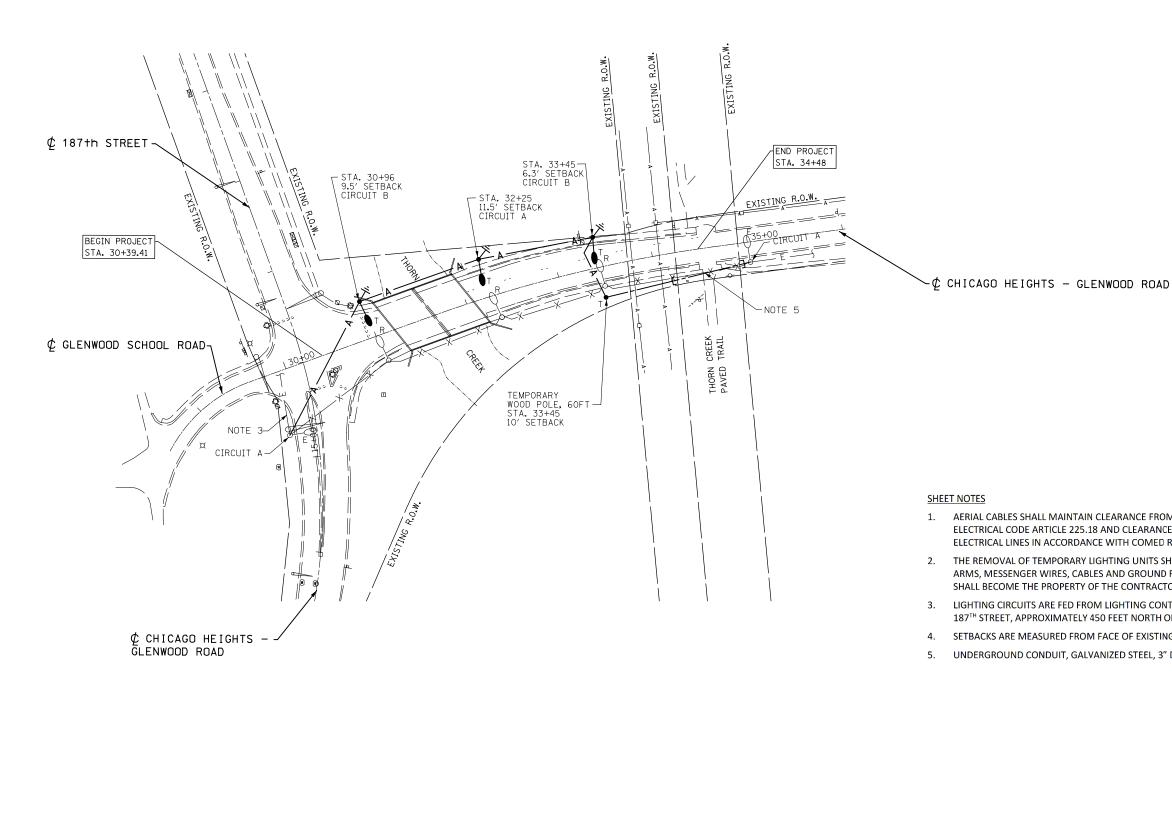
ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE ENGINEER.

CONTRACTOR TO CONFIRM WITH ENGINEER BEFORE STARTING WORK LOCATIONS FOR ALL TEMPORARY LIGHT POLES, LOCATIONS OF ALL LIGHT POLES TO BE RELOCATED AND PROPOSED LOCATIONS OF THE RELOCATED POLES.

CONTRACTOR TO ARRANGE WITH MUNICIPALITY TO HAVE TREES TRIMMED TO PROVIDE CLEARANCE FOR AERIAL CABLES, TEMPORARY POLES AND RELOCATED POLES.

LIGHTING CIRCUITS ARE FED FROM LIGHTING CONTROLLER #1 LOCATED ON THE EAST SIDE OF 187<sup>TH</sup> STREET, APPROXIMATELY 450 FEET NORTH OF CHICAGO HEIGHTS – GLENWOOD ROAD. CONTRACTOR SHALL CONTACT MR. DAN BUB WITH THE THE VILLAGE OF GLENWOOD PUBLIC WORKS DEPARTMENT, 708-753-2417, TO HAVE ROADWAY LIGHTING CIRCUIT TURNED OFF OR TURNED ON AT THE LIGHTING CONTROLLER AS NEEDED FOR CONSTRUCTION.

ROADWAY LIGHTING MUST REMAIN IN SERVICE DURING NIGHT TIME HOURS. THE CONTRACTOR SHALL COORDINATE WORK TO ENSURE THAT THE EXISTING LIGHTING REMAINS OPERATIONAL UNTIL THE TEMPORARY LIGHTING IS READY TO BE ACTIVATED. THE CONTRACTOR SHALL ALSO COORDINATE WORK TO KEEP THE TEMPORARY LIGHTING OPERATIONAL UNTIL THE RE-ERECTED LIGHTS ARE READY TO BE TURNED ON.



		USER NAME = sdiaz	DESIGNED - IB	REVISED -				
AM	KNIGHT		DRAWN - IB	REVISED -	STATE OF ILLINOIS		REMOVAL AND TEI LIGHTING PL	
FILE		PLOT SCALE = 100.00 ' / in.	CHECKED - KEA	REVISED -	DEPARTMENT OF TRANSPORTATION	LIGHTING		
	ngineers & Architects	PLOT DATE = 1/22/2019	DATE 01/24/19	REVISED -		SCALE: -	SHEET NO. 2 OF 3 SHEETS	



1. AERIAL CABLES SHALL MAINTAIN CLEARANCE FROM GROUND IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 225.18 AND CLEARANCE FROM EXISTING OVERHEAD UTILITY ELECTRICAL LINES IN ACCORDANCE WITH COMED REQUIREMENTS.

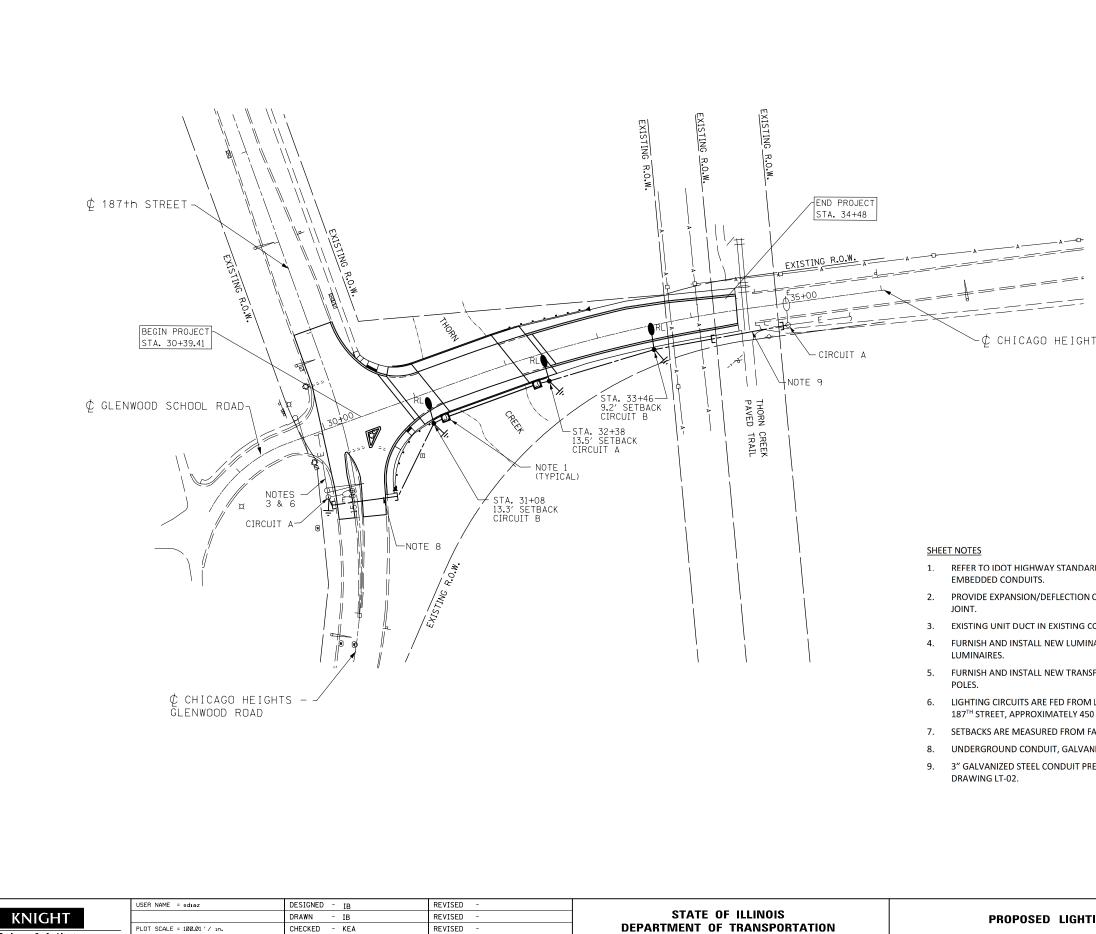
2. THE REMOVAL OF TEMPORARY LIGHTING UNITS SHALL INCLUDE ALL POLES, LUMINAIRES, MAST ARMS, MESSENGER WIRES, CABLES AND GROUND RODS. ALL TEMPORARY EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

3. LIGHTING CIRCUITS ARE FED FROM LIGHTING CONTROLLER #1 LOCATED ON THE EAST SIDE OF 187<sup>TH</sup> STREET, APPROXIMATELY 450 FEET NORTH OF CHICAGO HEIGHTS – GLENWOOD ROAD.

4. SETBACKS ARE MEASURED FROM FACE OF EXISTING CURB.

UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. AND UNIT DUCT.

	0	50'	100′	150'	200'	
		-	SCALE: 1" = 50'			
EMPORARY	F.A.U. RTE.	S	ECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLAN	3603	20	10-141-B	COOK	114	68
		LT-02		CONTRACT	NO. 6	0N21
S STA. 30+39 TO STA. 34+48	FED. ROAD DI	ST. NO. 1	ILLINOIS FED. AI	D PROJECT		



REVISED

PLOT DATE = 1/22/2019

Engineers & Architects

DEPARTMENT OF TRANSPORTATION

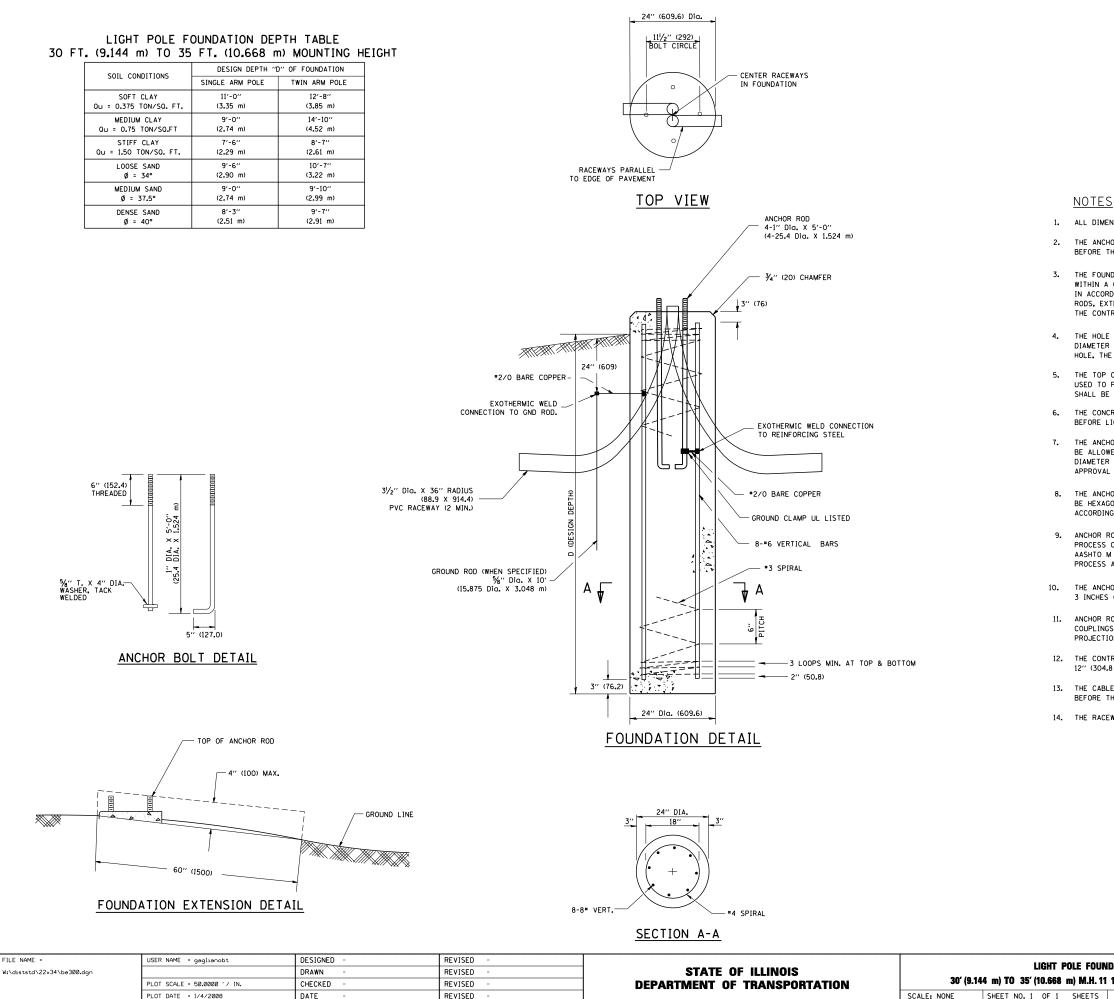
SHEET NO. 3 OF 3 SHEETS STA. 30+39 TO STA. 34+48

SCALE: -

TS - GLENWOOD ROAD					
RD DRAWING 812001 FOR DETAILS ON JUN	NCTION BO	XES AND			
CONDUIT COUPLINGS AT EACH PARAPET					
		NJION			
CONDUIT.					
IAIRE SAFETY CABLE ASSEMBLIES FOR ALL	RELOCATED	D			
FORMER BASE BREAKAWAY DEVICES FOR	ALL RELOC	ATED			
I LIGHTING CONTROLLER #1 LOCATED ON T D FEET NORTH OF CHICAGO HEIGHTS - GLI					
ACE OF PROPOSED CURB.					
NIZED STEEL, 3" DIA. AND UNIT DUCT.					
EVIOUSLY INSTALLED FOR TEMPORARY LIC	GHTING. RE	FER TO			
	0	50'	100 <sup>′</sup>	150′	200'
			SCALE: 1" = 5	<u>o'</u>	
	F.A.U. RTE.	SEC	TION	COUNTY	TOTAL SHEET SHEETS NO.
	3603 2010-141-B			COOK CONTRACT	114 69 NO. 60N21
STA. 30+39 TO STA. 34+48	FED. ROAD DI		LINOIS FED. A		

 $\ensuremath{\mathbb{C}}$  Chicago heights – glenwood road

 $\Box$ 



PLOT DATE = 1/4/2008

DATE

REVISED

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

2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.

3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.

4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE. THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.

THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).

6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.

7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.

8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.

9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.

THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.

11. ANCHOR RODS SHALL PROJECT 23/1" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.

12. THE CONTRACTOR SHALL USE A \*3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE \*3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.

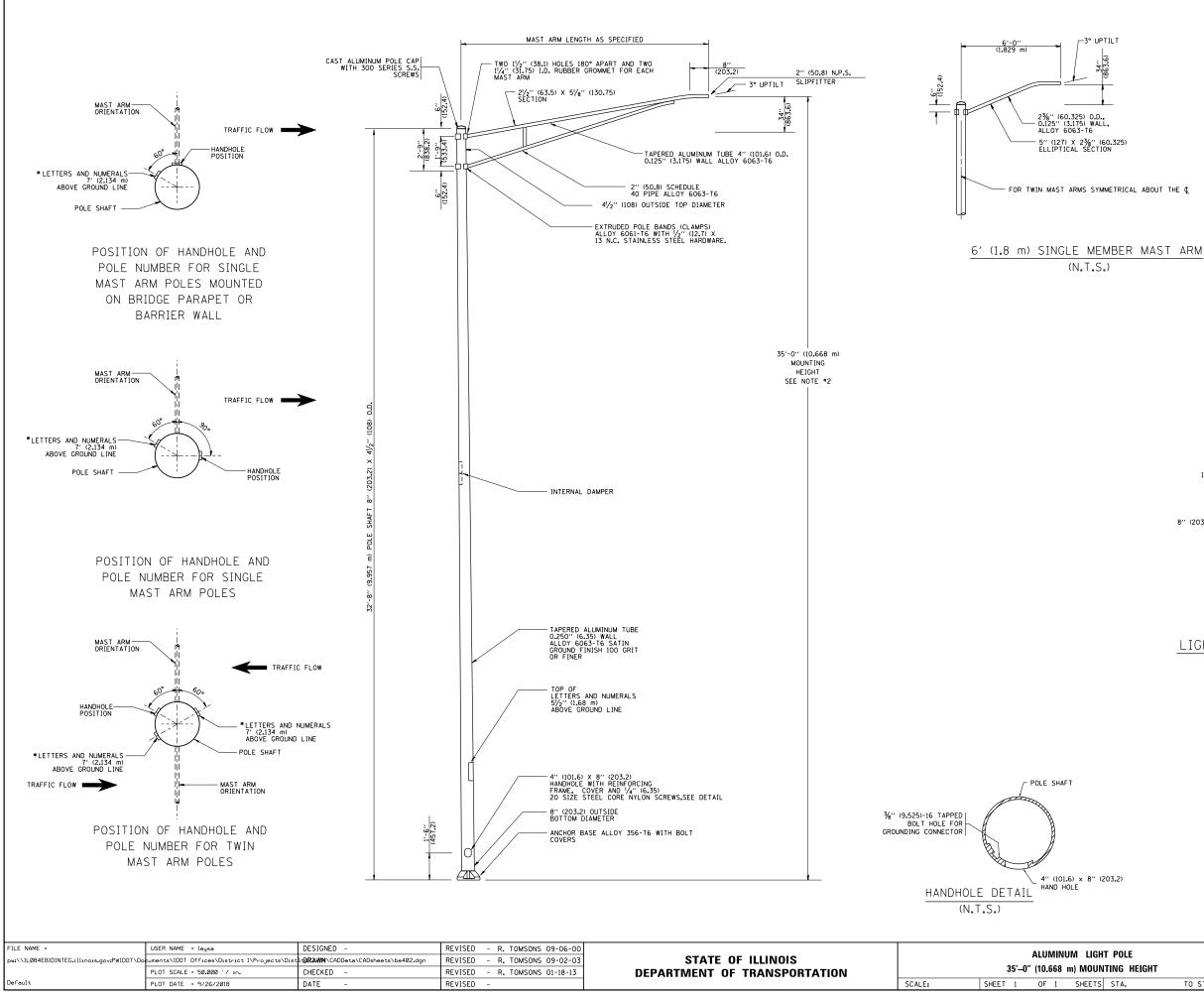
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.

14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

JNDATION 11 1/2" (292 mm) BOLT CIRCLE			SECTION			TOTAL SHEETS	SHEET NO.
			2010-141-В		COOK	114	70
	VZ (ZJZ IIIII) BOLT CINCLE	_	BE-300		CONTRACT	NO. 60	)N21
	STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FEE	). AI	D PROJECT		

LT-04

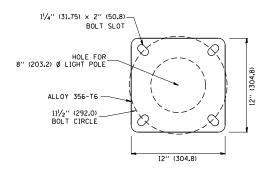
SHEET NO. 1 OF 1 SHEETS



### NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE SHOWN. 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE. 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.

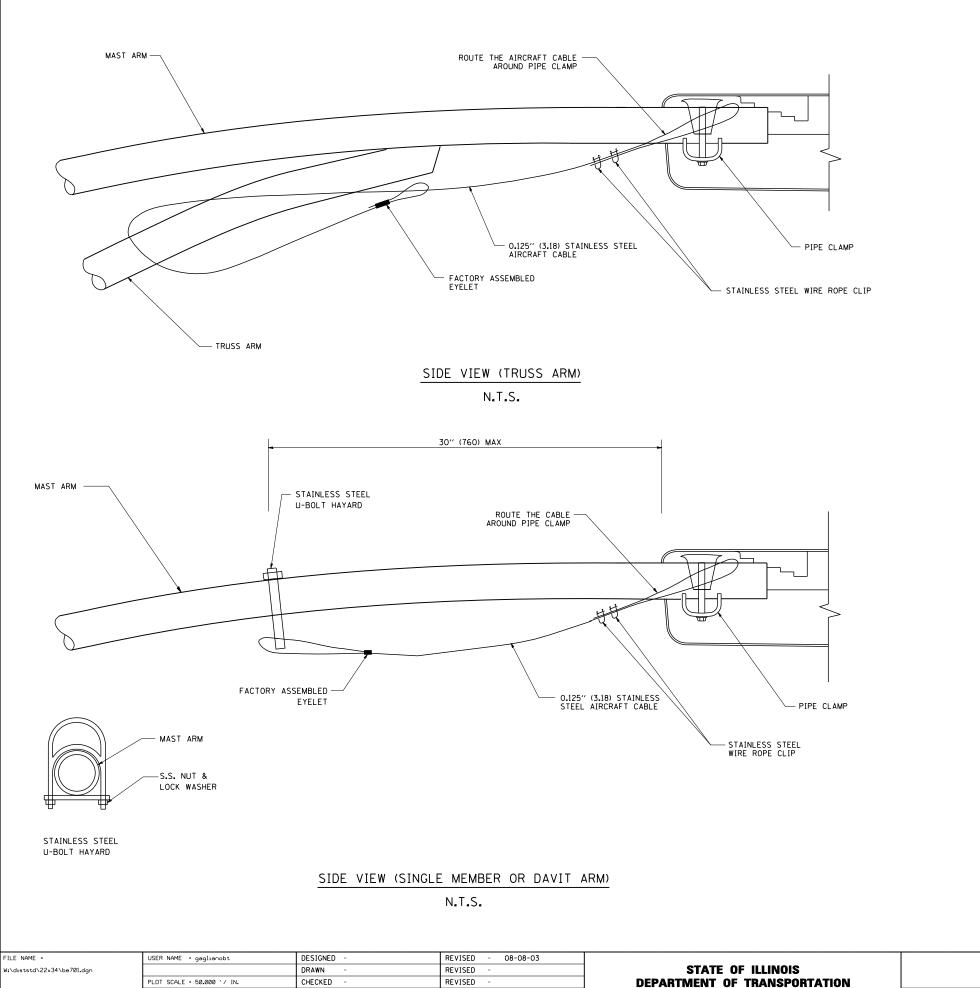
- CRĪTĒRĪA AS SPECIFIĒD.
  4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY KZC23, T&B SP40L OR APPROVED EQUAL.
  5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
  6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
  7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



## LIGHT POLE BASE PLATE DETAIL 11<sup>1</sup>/<sub>2</sub>" (292.0) BOLT CIRCLE

						-	1-05
			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			3603	2010-141-B	COOK	114	71
				BE-402	CONTRACT	NO. 6	0N21
ΤS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

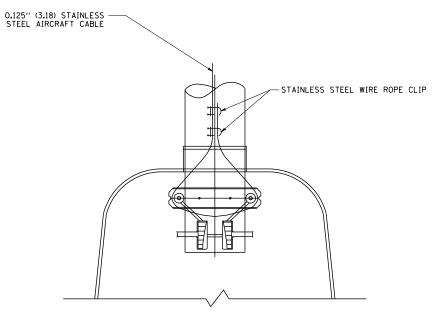
T-T-05



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DATE

PLOT DATE = 1/4/2008



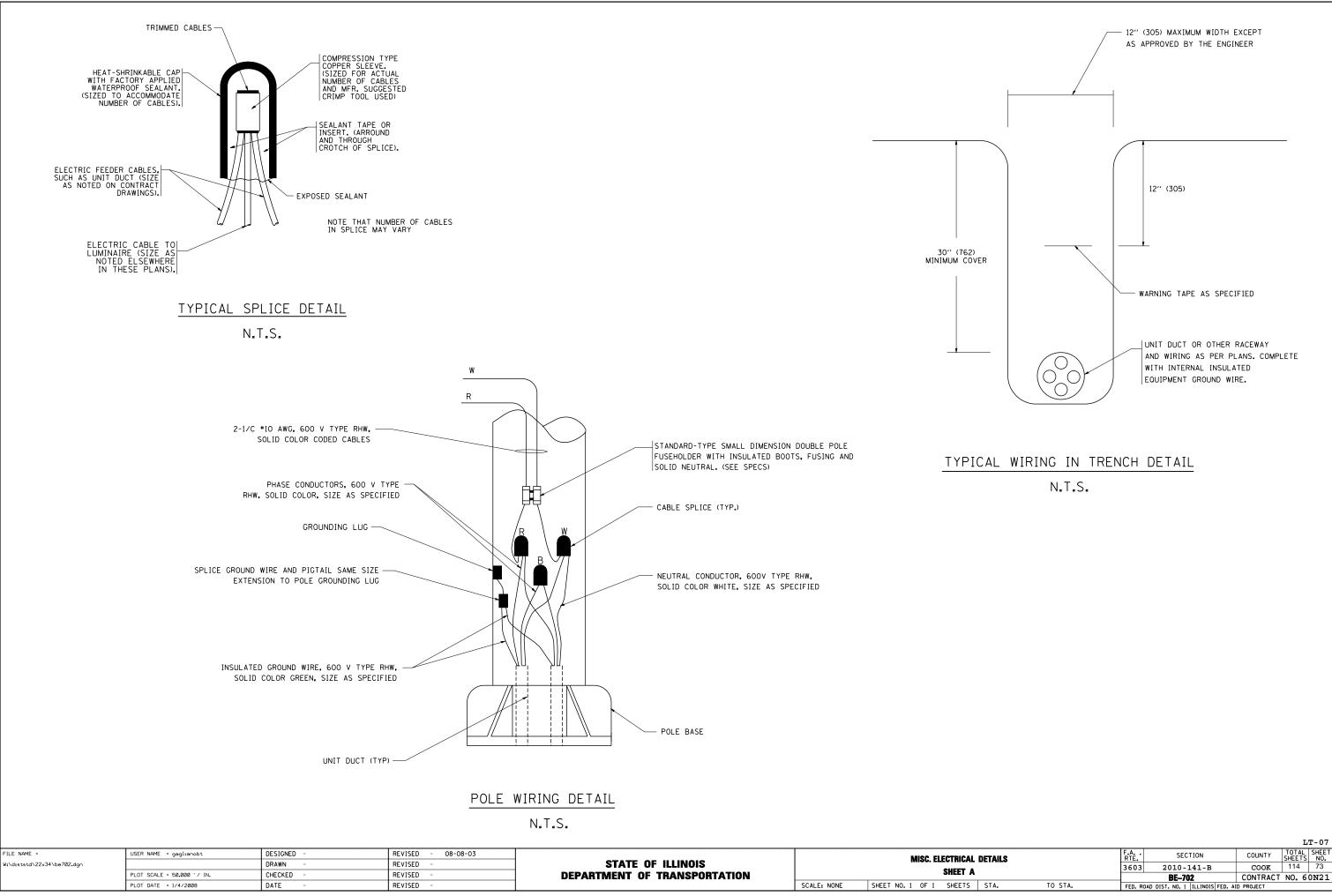
BOTTOM VIEW N.T.S.

NOTES:

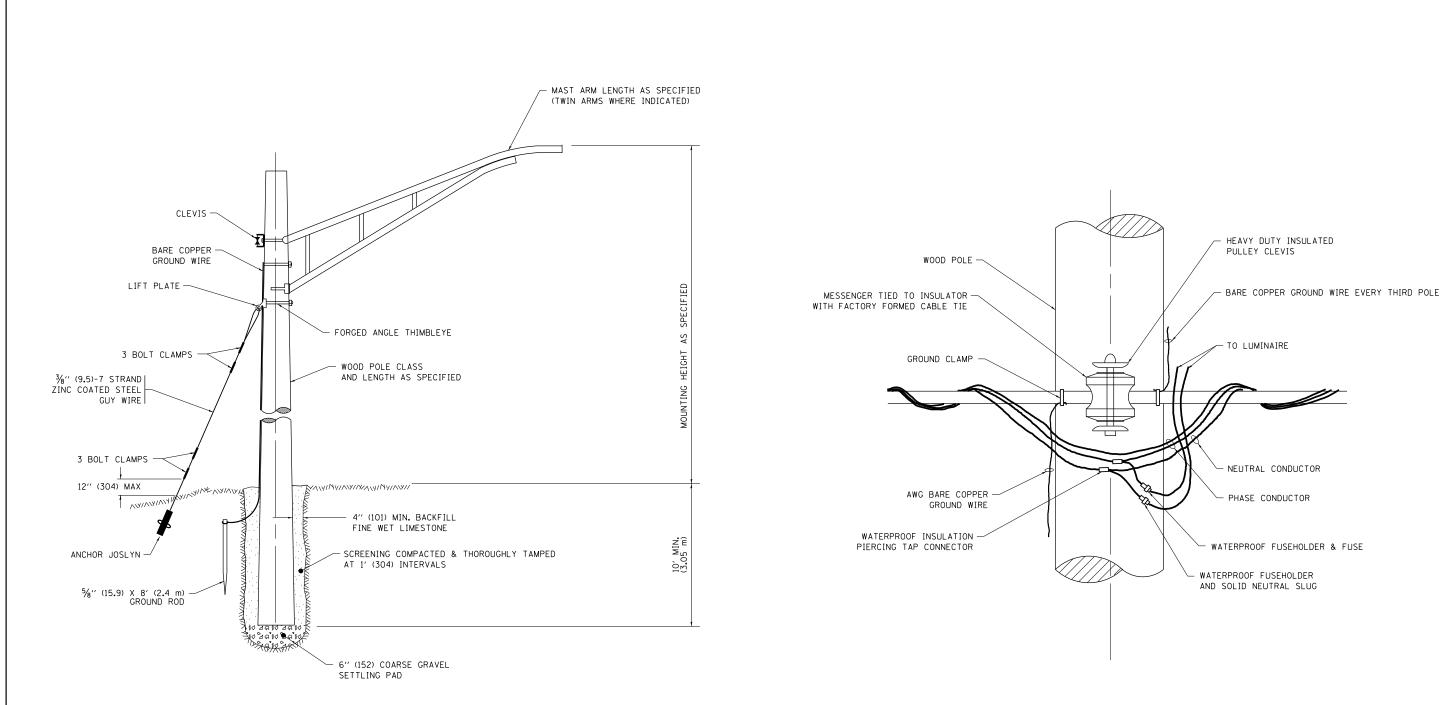
- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

COUNTYTOTAL<br/>SHEETSSHEET<br/>NO.COOK11472 F.A. . RTE. 3603 COUNTY SECTION LUMINAIRE SAFETY CABLE ASSEMBLY 2010-141-B CONTRACT NO. 60N21 BE-701 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

LT-06



L DETAILS		F.A RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
A			3603	2010-141-B		COOK	114	73
n			BE702		CONTRACT	NO. 6	0N21	
	STA.	TO STA.	FED, RO	AD DIST. NO. 1 ILLINOIS FE	D. AI	D PROJECT		



# **TEMPORARY LIGHT POLE DETAIL**

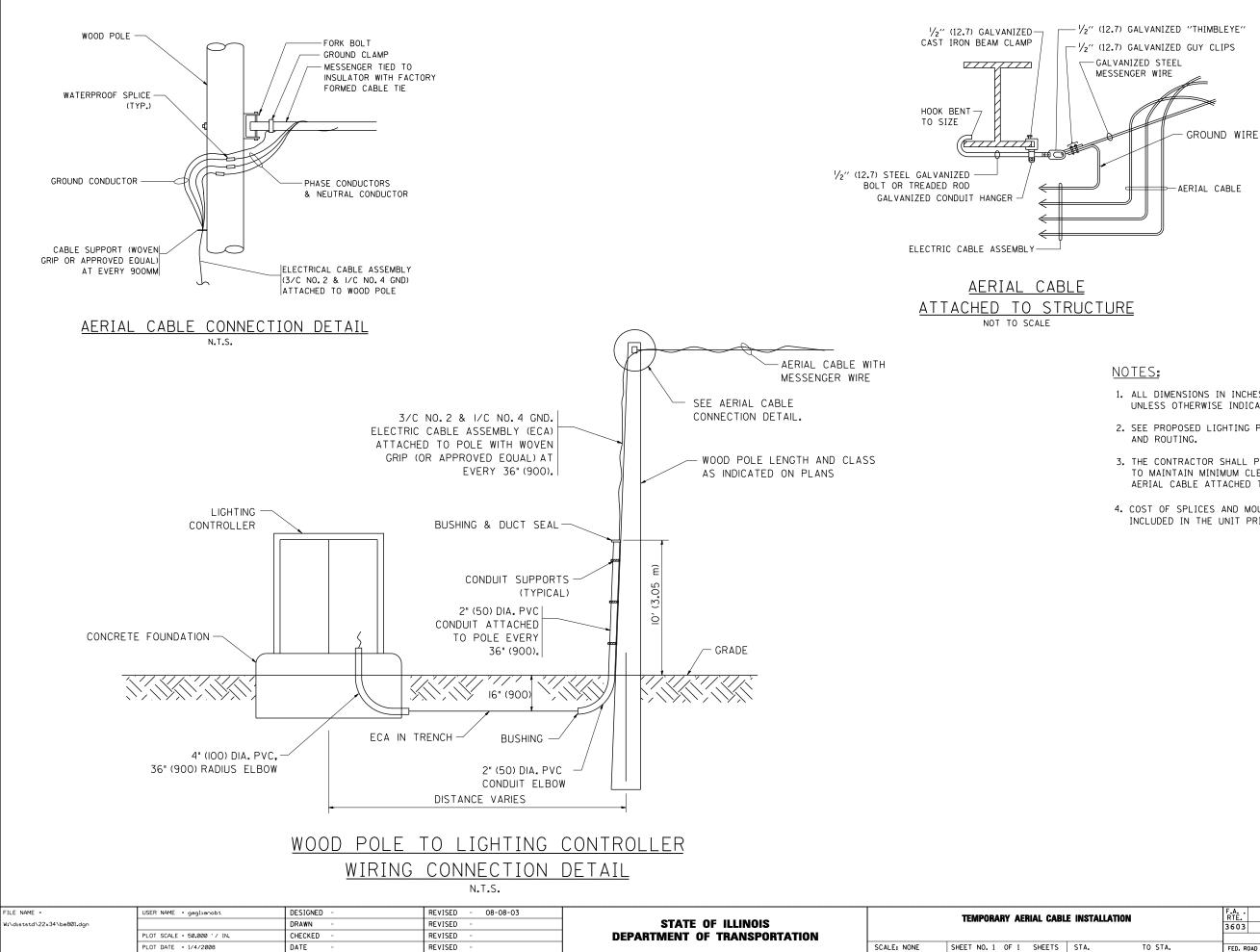
# **TEMPORARY LIGHT POLE ATTACHMENT DETAIL**

### NOTE:

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

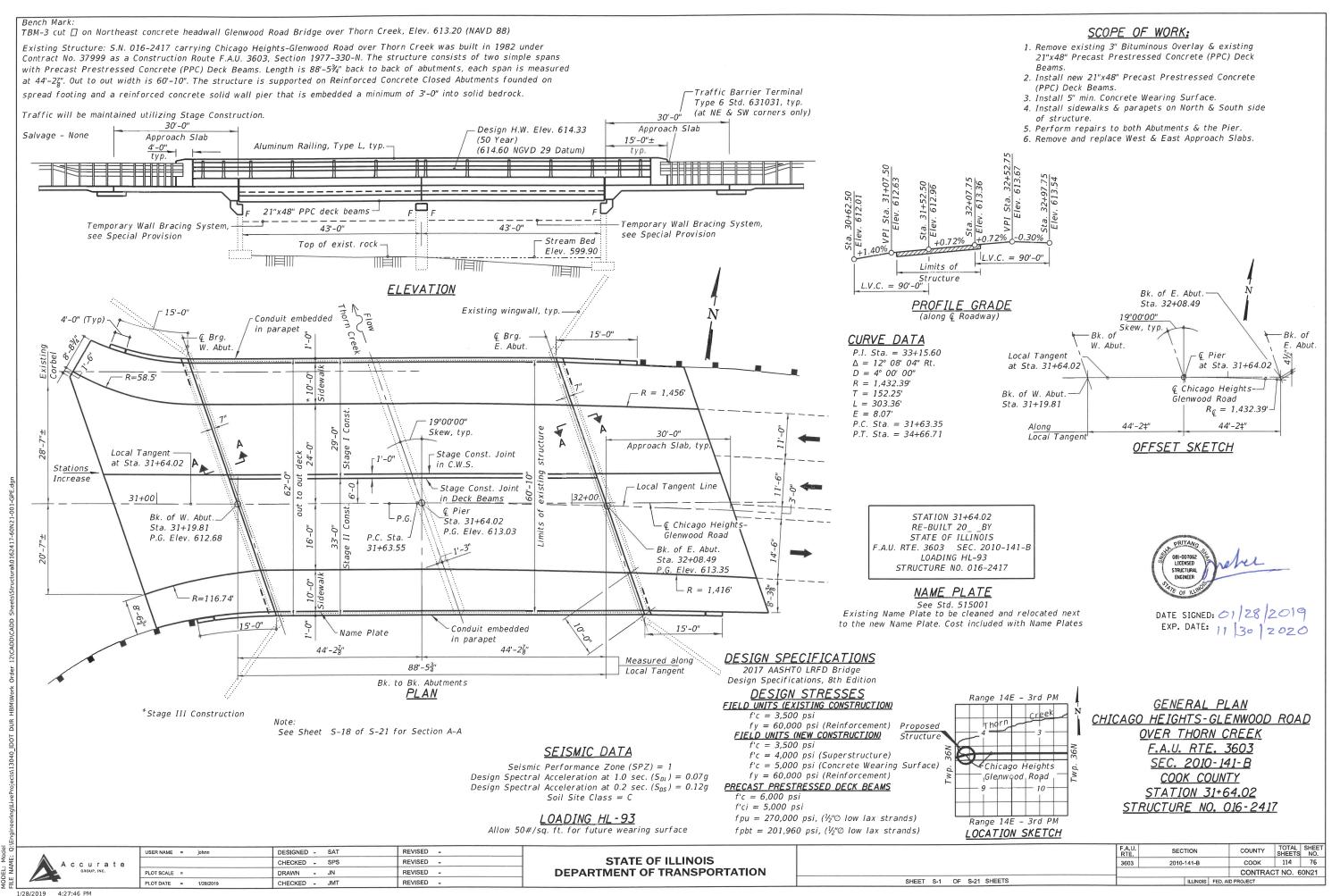
L										<b>11 00</b>
	FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03			TEMPORARY LIGHT POLE DETAILS	F.A. RTE	SECTION	COUNTY TOTAL SHEET
	pw:\\IL084EBIDINTEG.1llinois.gov:PWIDOT\Do	uments\IDOT_Offices\District_1\Projects\Dist	GRAWM\CADDeta\CADsheets\be800.dgn	REVISED - R.T. 07-26-16	STATE OF ILLINOIS			3603	2010-141-В	COOK 114 74
		PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				BE-800	CONTRACT NO. 60N21
	Default	PLOT DATE = 9/1/2016	DATE –	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.			AID PROJECT

LT-08



- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE
- 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

						L	T-09
BLE INSTALLATION			F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			3603	2010-141-B	COOK	114	75
				BE801	CONTRACT	NO.60	N21
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



### INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 General Notes, Index of Sheets & Total Bill of Material
- S-3 Construction Staging-I
- S-4 Construction Staging-II & III
- S-5 Temporary Concrete Barrier for Stage Construction
- S-6 Top of West Approach Slab Elevations
- S-7 Top of East Approach Slab Elevations
- S-8 Superstructure
- S-9 Superstructure Details
- S-10 Bridge Approach Slab Details West
- S-11 Bridge Approach Slab Details East
- S-12 Bridge Approach Slab Details
- S-13 Aluminum Railing, Type L
- S-14 21"x48" P.P.C. Deck Beam
- S-15 21"x48" P.P.C. Deck Beam Details
- S-16 West and East Abutment Repair S-17 West and East Abutment Removal
- S-18 West and East Abutment Details
- S-19 Pier Repairs
- S-20 Pier Removal and Construction
- S-21 Bar Splicer Assembly and Mechanical Spicer Details

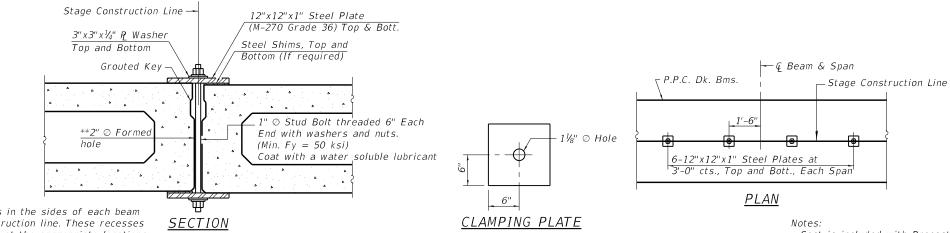
### TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	SUPER.	SUB.	TOTAL
Removal of Existing Superstructures	Each	1	-	1
Concrete Removal	Cu Yd	-	19.9	19.7
Structure Excavation	Cu Yd	-	32	32
Concrete Structures	Cu Yd	-	76.9	76.9
Concrete Superstructure	Cu Yd	104.4	-	104.4
Bridge Deck Grooving	Sq Yd	646	-	646
Protective Coat	Sq Yd	1,107	-	1,107
Concrete Superstructure (Approach Slab)	Cu Yd	171.7	-	171.7
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	5,309	-	5,309
Reinforcement Bars, Epoxy Coated	Pound	94,230	10,990	105,220
Bar Splicers	Each	303	98	401
Aluminum Railing, Type L	Foot	221	-	221
Name Plates	Each	1	-	1
Epoxy Crack Injection	Foot	-	143	143
Concrete Wearing Surface, 5"	Sq Yd	590	-	590
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	-	457	457
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq Ft	-	8	8
Temporary Wall Bracing System	L Sum	-	1	1

### GENERAL NOTES:

- 1.
- 2. Reinforcement Bars designated (E) shall be Epoxy Coated.
- 3. for the new Profile Grade and Beam Camber.
- Superstructure.
- 6. No in-stream work will be allowed on this project.
- 7. Slipforming of the parapets is not allowed.
- 8.
- 9.

		-								
Drainage Area = 51,008 Acres 79.7 Sq. Mi. Low Grade Elev. 611.36@Sta. 36+50										
Flood	Freq.	Q	Openi	ng Ft²	Nat.	Head	– Ft.	Headwa	ater El.	
11000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
	10	3803	685	685.0	612.63	0.28	0.30	612.91	612.93	
Design	50	5700	685	685.0	614.33	0.08	0.09	614.41	614.42	
Base	100	6510	685	685.0	614.91	0.06	0.07	614.97	614.98	
Overtopping	<10 Yr	3803	685	685.0	612.63	0.28	0.30	612.91	612.93	
Max. Calc.	500	8800	685	685.0	617.28	0.03	0.03	617.31	617.31	



\*\*Cast semi-circular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts

### SHEAR KEY CLAMPING DETAILS AT STAGE CONST. LINE

10del	•		USER NAME = johnn	DESIGNED - SAT	REVISED -		GENERAL NOTES. INDEX OF SHEETS AND TOTAL BILL OF MATERIAL	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
AME		Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS	SN 016-2417		2010-141-B	соок	114 77
		GROUP, INC.	PLOT SCALE =	DRAWN – JN	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	CT NO. 60N21
₽ E L			PLOT DATE = 2/27/2019	CHECKED - JMT	REVISED -		SHEET S-2 OF S-21 SHEETS		ILLINOIS FED. A	ID PROJECT	

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

The minimum thickness of the Concrete Overlay shall be 5 inches and varies as required to adjust

4. The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing Construction Procedures for Removal and Replacement of the

5. If the Contractor's procedures for existing beam removal or placement of new beams involves placement of heavy equipment on the new deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads.

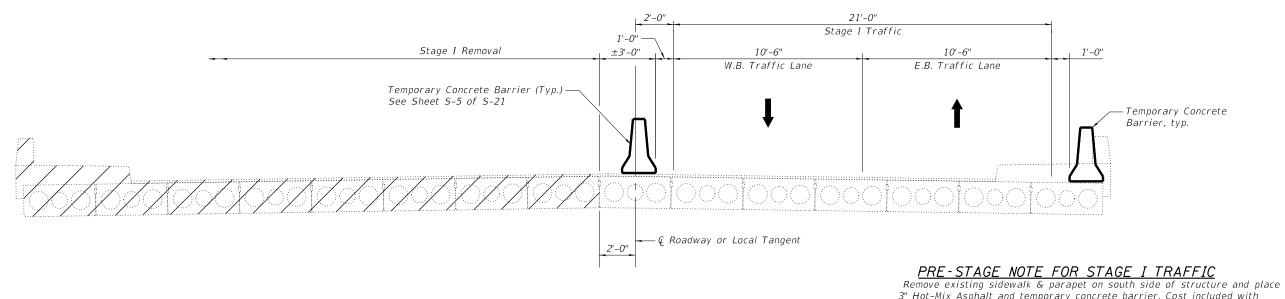
Repair of the abutments & pier shall be completed prior to placement of the new deck beams.

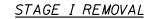
Protective Coat will be applied to the top and inside face of parapets, sidewalk, curb and on top of concrete wearing surface including approach slabs.

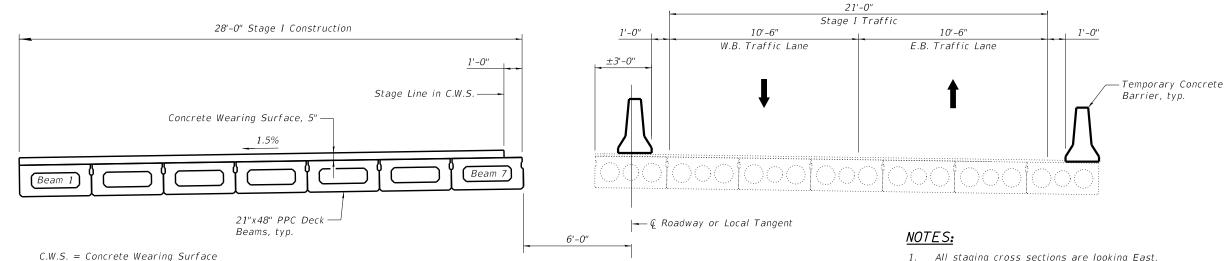
### WATERWAY INFORMATION

Cost is included with Precast Prestressed Concrete Deck Beams (21" Depth)

See Sheet S-3 & S-4 of S-21 for Staging details.





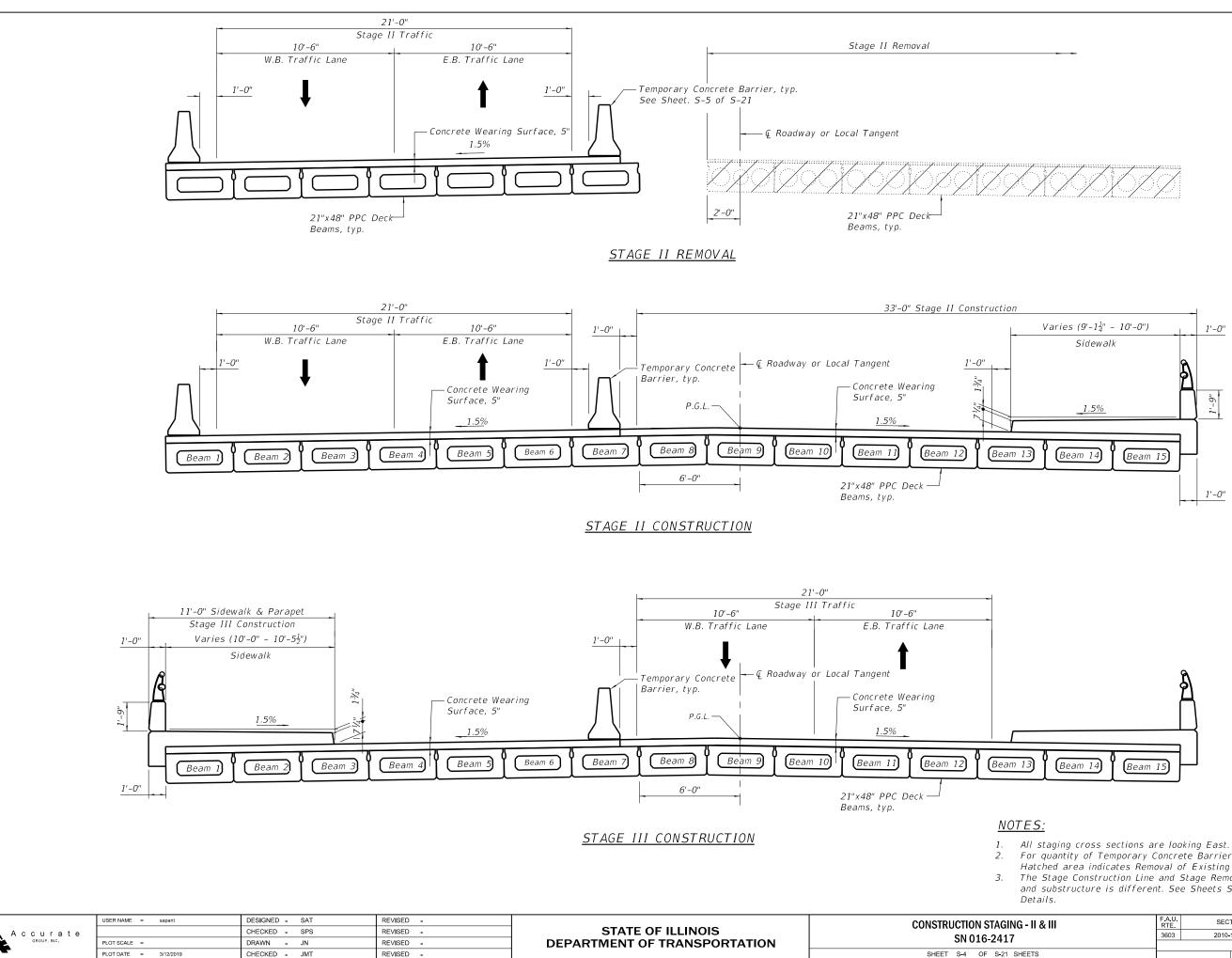


STAGE I CONSTRUCTION

			-	-						
щ с P	•	USER NAME = Johnn	DESIGNED - SAT	REVISED -	CONSTRUCTION STAGING - 1	F.A.U.	SECTION	COUNTY	TOTAL SHEET	
MA	🔺 Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		3603	2010-141-B	соок	114 78
N N	GROUP, INC	PLOT SCALE =	DRAWN – JN	REVISED -		SN 016-2417				CT NO. 60N21
EILE		PLOT DATE = 1/28/2019	CHECKED - JMT	REVISED -		SHEET S-3 OF S-21 SHEETS		ILLINOIS FED. A	D PROJECT	
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3" Hot-Mix Asphalt and temporary concrete barrier. Cost included with Removal of Existing Superstructure

- All staging cross sections are looking East.
   For quantity of Temporary Concrete Barrier, see Roadway Plans. Hatched area indicates Removal of Existing Superstructure.
   The Stage Construction Line and Stage Removal Line for superstructure and substructure is different. See Sheets S-17 and S-18 of S-21 for Datable Details.

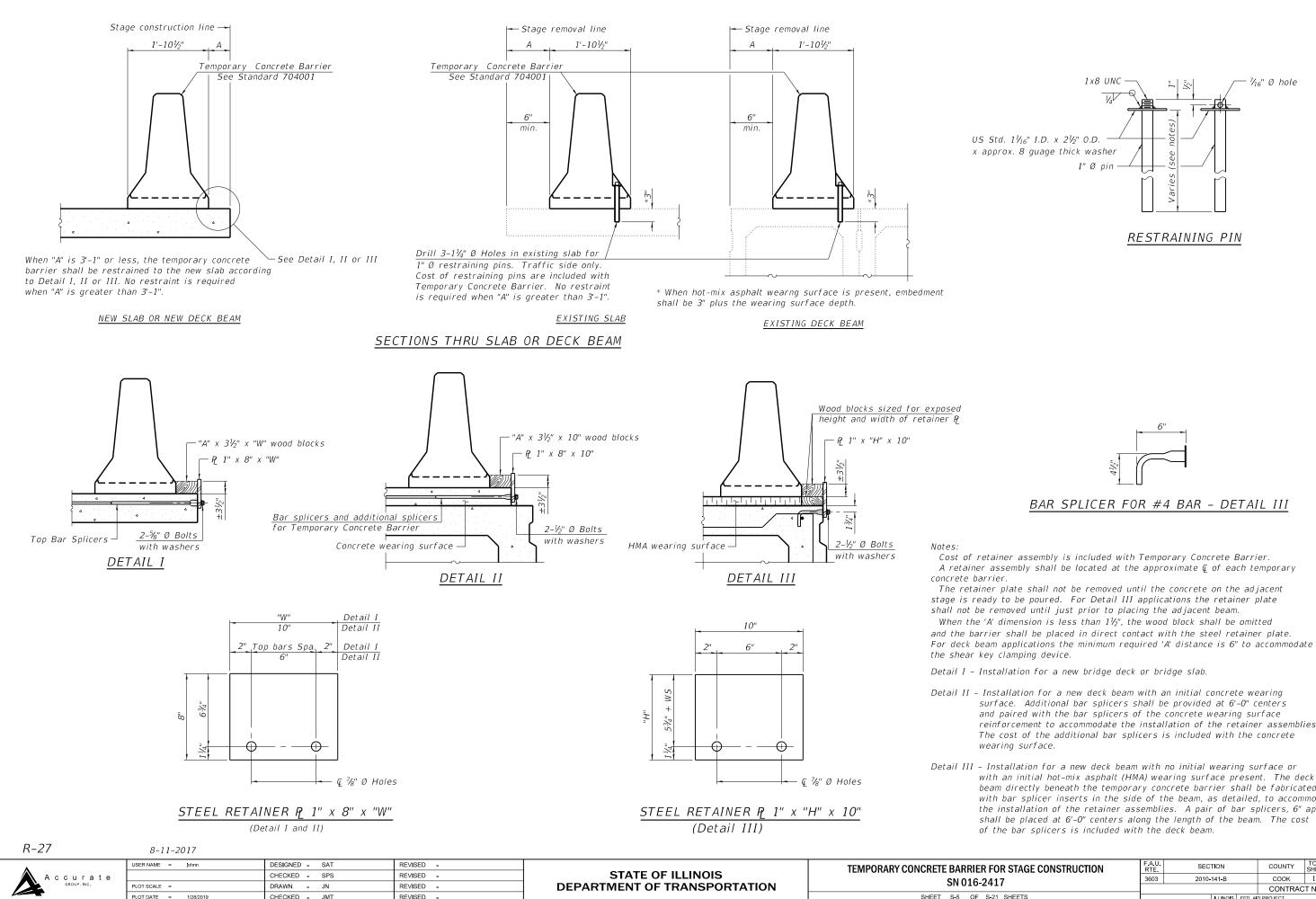


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- For quantity of Temporary Concrete Barrier, see Roadway Plans.
- Hatched area indicates Removal of Existing Superstructure.
- The Stage Construction Line and Stage Removal Line for superstructure and substructure is different. See Sheets S-17 and S-18 of S-21 for

AGING - II & III 417 5-21 Sheets		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		2010-141-B			соок	114	79
					CONTRAC	T NO. 6	0N21
			ILLINOIS	FED. A	D PROJECT		



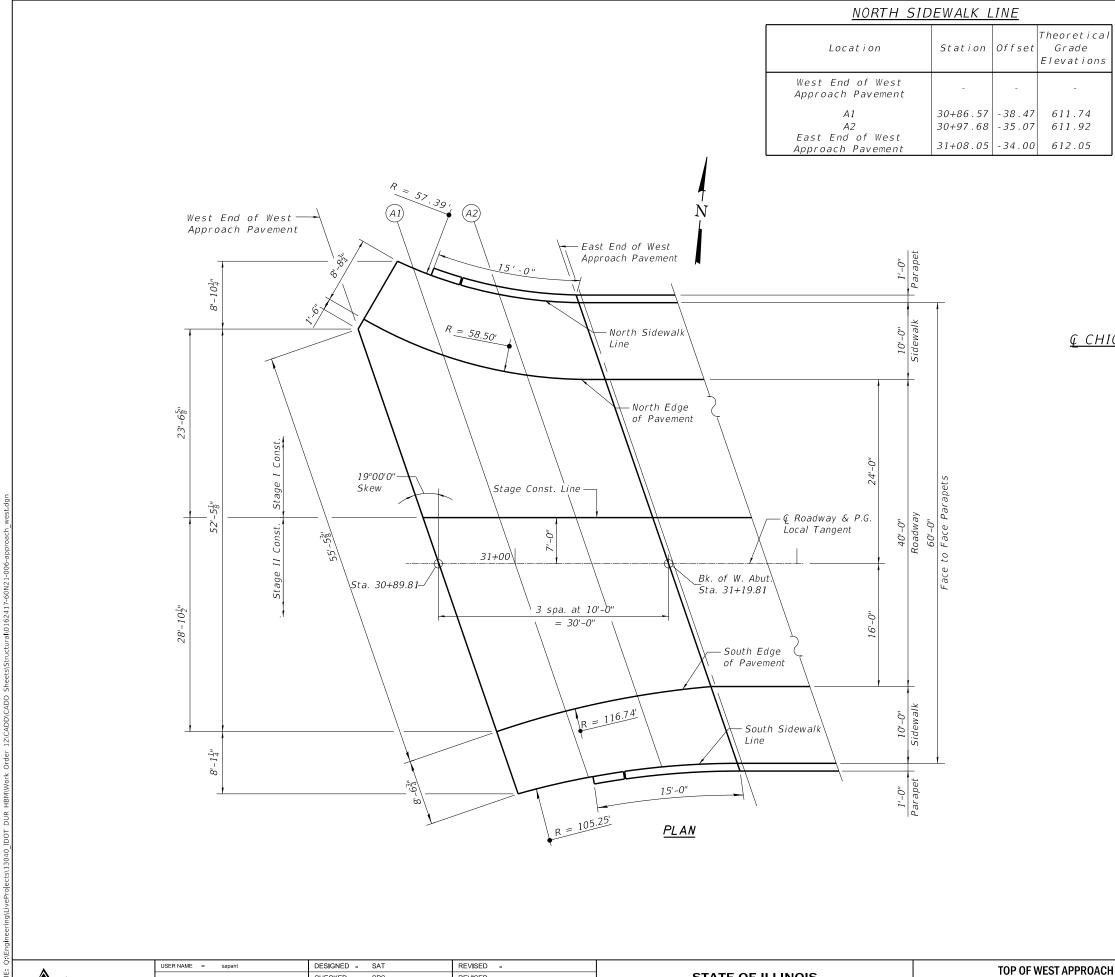
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SHEET S-5 OF S-

reinforcement to accommodate the installation of the retainer assemblies.

beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart,

FOR STAGE CONSTRUCTION 417 5-21 SHEETS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		503 2010-141-B			COOK	114	80
					CONTRAC	T NO. 6	0N21
			ILLINOIS	FED. A	D PROJECT		



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ME	🔺 Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS	
N EL	GROUP, INC.	PLOT SCALE =	DRAWN - JN	REVISED -	DEPARTMENT OF TRANSPORTATION	
FILE		PLOT DATE = 3/12/2019	CHECKED - JMT	REVISED -		s

SHEET S-6 OF S

NORTH EDGE OF PAVEMENT										
Location	Station		Theoretical Grade Elevations							
West End of West Approach Pavement	30+80.04	- 31.85	611.76							
A1 A2 East End of West Approach Pavement	30+90.42 31+01.29 31+11.55	- 24 . 55	612.12							

### STAGE CONSTRUCTION LINE

Location	Station		Theoretical Grade Elevations
West End of West Approach Pavement	30+87.40	-7.00	612.23
A1 A2	30+97.40 31+07.40		612.34 612.45
East End of West Approach Pavement	31+17.40	-7.00	612.55

# Ç CHICAGO HEIGHTS-GLENWOOD ROAD, PGL & LOCAL TANGENT

Location	Station		Theoretical Grade Elevations
West End of West Approach Pavement	30+89.81	0.00	612.36
A1 A2	30+99.81 31+09.81	0.00 0.00	612.47 612.58
East End of West Approach Pavement	31+19.81	0.00	612.68

### SOUTH EDGE OF PAVEMENT

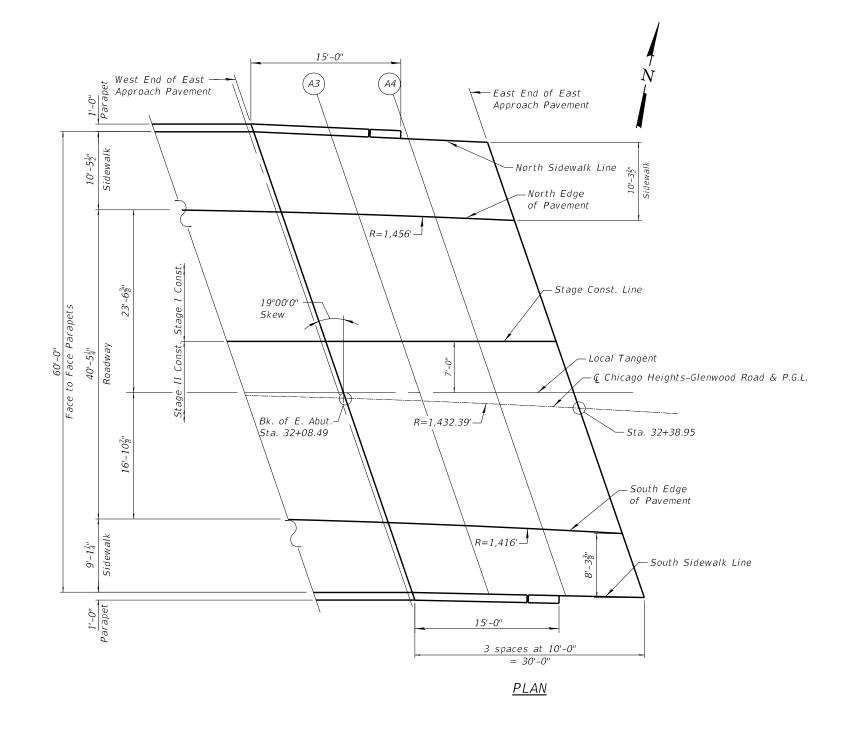
Location	Station	Offset	Theoretical Grade Elevations
West End of West Approach Pavement	30+97.34	21.87	612.12
A1 A2	31+06.41 31+15.74		612.26 612.38
East End of West Approach Pavement	31+25.32	16.00	612.49

# SOUTH SIDEWALK LINE

	Location	Station		Theoretical Grade Elevations
ſ	West End of West Approach Pavement	31+00.13	29.97	612.03
	A1 A2	31+09.38 31+18.92		612.16 612.28
	East End of West Approach Pavement	31+28.76	26.00	612.38

APPROACH SLAB ELEVATIONS SN 016-2417		· SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		3603 2010-141-B		COOK	114	81	
					CONTRAC	T NO. 6	0N21
T S-6 OF S-21 SHEETS	ILLINOIS FED. AID PROJECT						

<u>NORTH SIL</u>	DEWALK L		NORTH EDGE OF PAVEMENT					
Locat i on	Station	Offset	Theoretical Grade Elevations		Location	Station	Offset	Theoretical Grade Elevations
West End of East Approach Pavement	31+95.75	- 34 . 38	612.75		West End of East Approach Pavement	31+99.52	-24.00	612.93
A3	32+05.61 32+15.51				A3	32+09.46 32+19.42		613.00 613.07
A4 East End of East Approach Pavement	32+25.43				A4 East End of East Approach Pavement	32+29.42		



_ #										
HITE NAME: O BILLE NAME: O GROUP, INC.	USER NAME = sapant	DESIGNED - SAT	REVISED -		TOP OF EAST APPROACH SLAB ELEVATIONS	F.A.U. BTE	SECTION	COUNTY TOTAL SHE	ET	
	🔺 Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		3603	2010-141-B	соок 114 82	2
		PLOT SCALE =	DRAWN – JN	REVISED -		SN 016-2417			CONTRACT NO. 60N2	1
		PLOT DATE = 3/12/2019	CHECKED - JMT	REVISED -		SHEET S-7 OF S-21 SHEETS		D. AID PROJECT		

3/12/2019 10:55:06 AM

# STAGE CONSTRUCTION LINE

Location	Station		Theoretical Grade Elevations
West End of East Approach Pavement	32+05.60	-7.63	613.22
A3 A4	32+15.54 32+25.48		613.28 613.33
East End of East Approach Pavement	32+35.41	-8.82	613.37

# <u>Q CHICAGO HEIGHTS - GLENWOOD ROAD & P.G.L.</u>

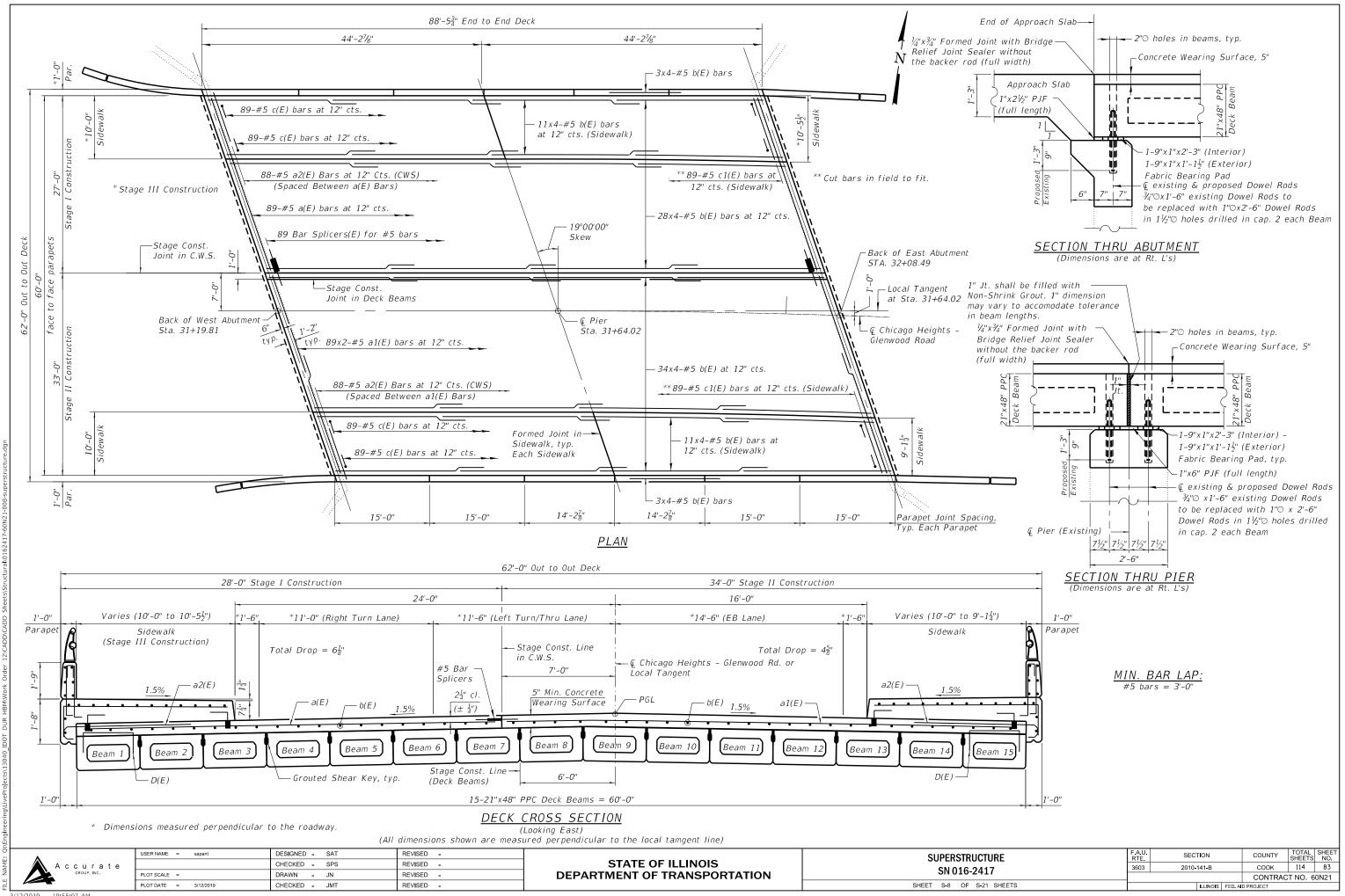
Location	Station		Theoretical Grade Elevations
West End of East Approach Pavement	32+08.49	0.00	613.36
A3 A4	32+18.62 32+28.77	0.00 0.00	613.42 613.47
East End of East Approach Pavement	32+38.95	0.00	613.52

# SOUTH EDGE OF PAVEMENT

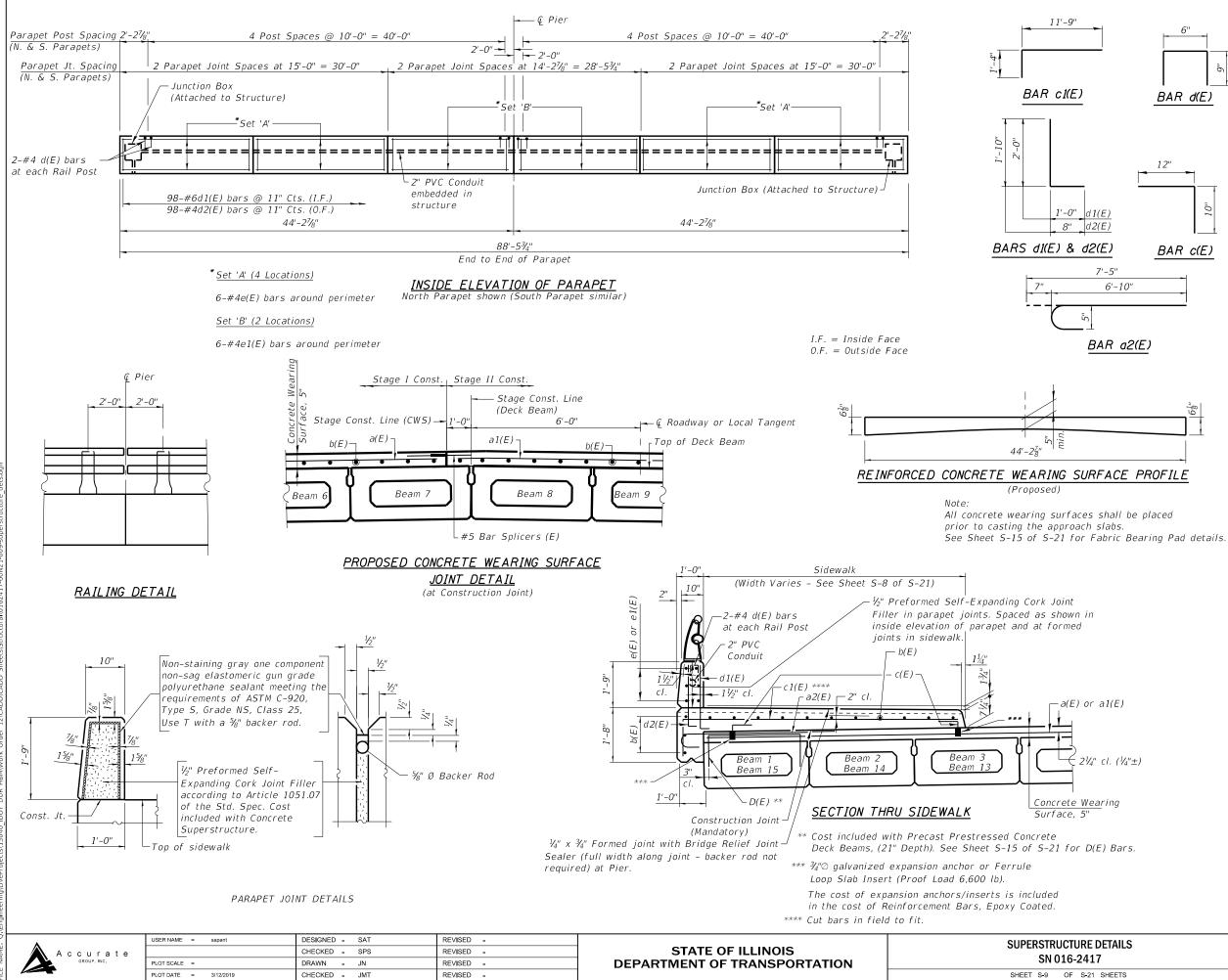
Location	Station		Theoretical Grade Elevations
West End of East Approach Pavement	32+14.64	16.00	613.16
A3 A4	32+24.89 32+35.19		613.22 613.26
East End of East Approach Pavement	32+45.50	16.00	613.26

### SOUTH SIDEWALK LINE

Location	Station	Offset	Theoretical Grade Elevations
West End of East Approach Pavement	32+18.15	24.97	613.04
A3 A4	32+28 . 41 32+38 . 66		613.10 613.15
East End of East Approach Pavement	32+48.97	24.17	613.19



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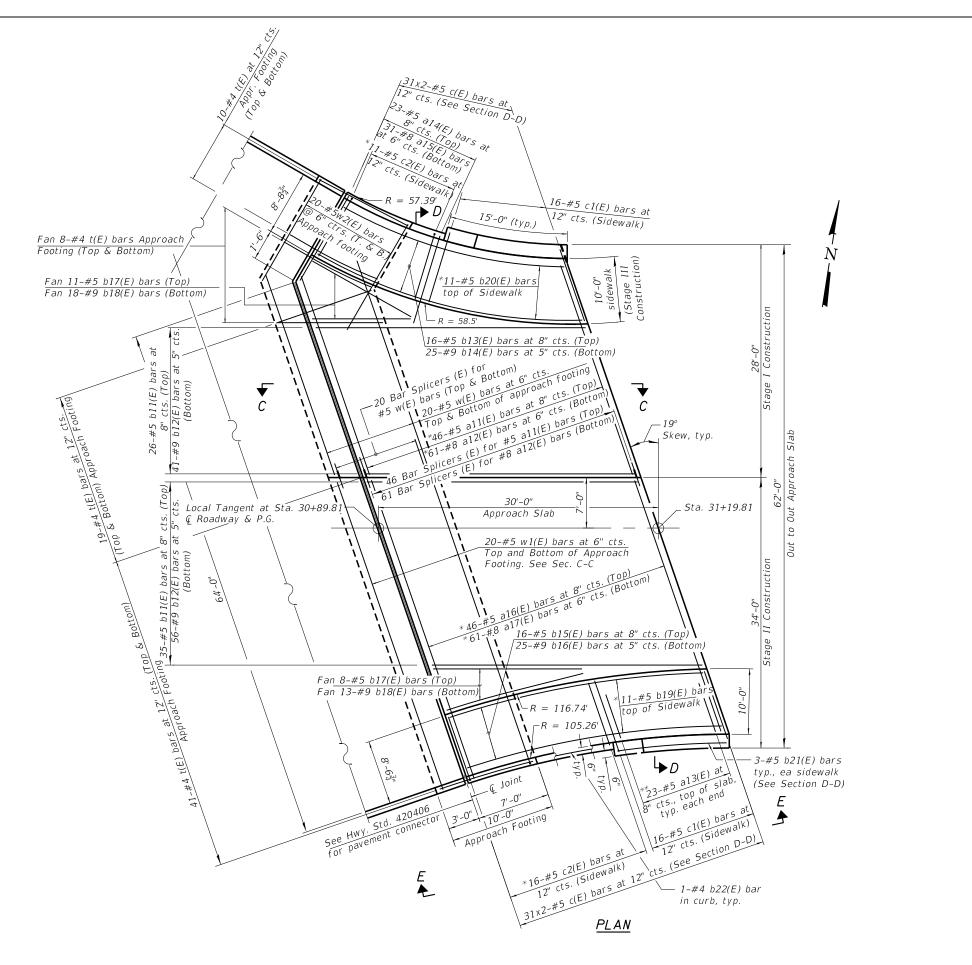


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<u>BILL OF MATERIAL</u>									
Bar	No.	Size	Length	Shape					
a(E)	89	#5	29'-3"						
a1(E)	178	#5	19'-0"						
a2(E)	176	#5	7'-5"						
b(E)	360	#5	24'-4"						
c(E)	356	#5	1'-10"	٦					
c1(E)	178	#5	13'-1"	<u> </u>					
d(E)	40	#4	2'-0"	П					
d1(E)	196	#6	3'-0"						
d2(E)	196	#4	2'-6"						
e(E)	48	#4	14'-8"						
e1(E)	24	#4	13'-10"						
Reinforc Epoxy C		Bars,	Pound	21,860					
Concrete Superstr		ò	Cu Yd	66.6					
Bridge D	Peck G	rooving	Sq Yd	374					
Protectiv	ve Coa	t	Sq Yd	659					
Concrete Surface,		ing	Sq Yd	590					

Bars indicated thus 11x4-#5 etc., indicates 11 lines of bars with 4 lengths per line

RE DETAILS 417		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		603 2010-141-B			соок	114	84
					CONTRAC	T NO. 6	0N21
S-21 SHEETS	ILLINOIS FED. AID PROJECT						



COUNTY TOTAL SHEET
СООК 114 85
CONTRACT NO. 60N21
JECT
( PRC

### NOTES:

1.

2.

7.

8.

- 3. 4 5. 6.

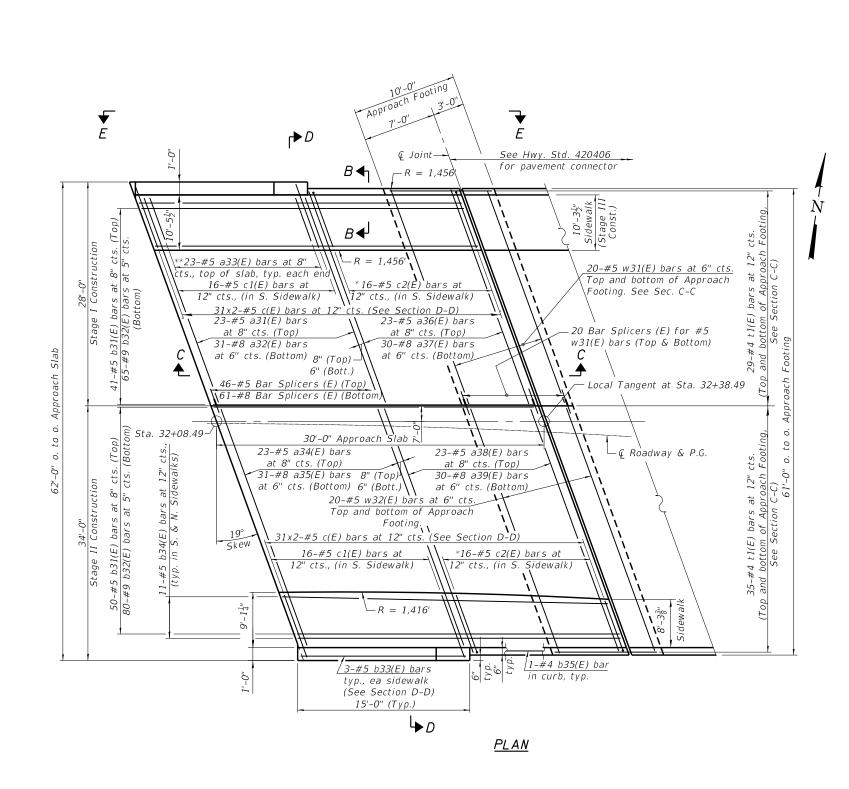
1/31/2019 2:38:43 PM

a11(E), a12(E), a16(E) and a17(E) bar spacings measured along Q Rdwy. The joint opening shall be determined per Article 520.04 except that on jointless structures, the distances described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be  $1\frac{1}{2}$ " for installation purposes. Parapet and Sidewalk concrete shall be paid for as Concrete Superstructure. Approach slab concrete shall be paid for as Concrete Superstructure (Approach Slab). Approach Footing concrete shall be paid for as Concrete Structures. See Sheet S-12 of S-21 for section C-C, section D-D, view E-E and bar bending details. Curved bars shall be bent in the field. See Sheet S-18 of S-21 for v(E) bar bar details.

\* Cut bars in field to fit. \*\* Lap a13(E) bars with a11(E) and a16(E) bars, typ. each parapet.

### WEST APPROACH RILL OF MATERIAL

E	<u>BILL C</u>	<u>pf Mat</u>	<u>ERIAL</u>	
Bar	No.	Size	Length	Shape
a11(E)	46	#5	34'-0"	
a12(E)	61	#8	34'-0"	
a13(E)	46	#5	7'-4"	L
a14(E)	23	#5	10'-4"	
a15(E)	31	#8	10'-4"	
a16(E)	46	#5	39'-4"	_
a17(E)	61	#8	39'-4"	
b11(E)	61	#5	29'-8''	
b12(E)	97	#9	29'-8''	
b13(E)	16	#5	32'-2"	
b14(E)	25	#9	32'-2"	
b15(E)	16	#5	28'-8''	
b16(E)	25	#9	28'-8''	
b17(E)	19	#5	15'-0''	
b18(E)	31	#9	15'-0''	
b19(E)	11	#5	28'-5''	
b20(E)	11	#5	30'-8"	
b21(E)	6	#5	14'-8''	
b22E)	2	#4	14'-2"	
(=)				
c(E)	124	#5	1'-10''	
c1(E)	32	#5	12'-7''	
c2(E)	27	#5	11-3"	
al(E)	0		21 01	
d(E)	8	#4	2'-0"	
d1(E)	26	#6	3'-0"	L
d2(E)	26	#4	2'-6"	L
d3(E)	20	#6	4'-10''	L
e11(E)	12	#4	13'-8"	
e12(E)	20		13-8" 3'-8"	
erz(L)	20	#4	5-0	
t(E)	156	#4	9'-8''	
(12)	130		5 0	
w(E)	40	#5	25'-0''	
w1(E)	40	#5	39'-4"	
w2(E)	40	#5	11'-9"	
Reinforce Epoxy Co		ars,	Pound	42,600
Concrete		tructure	Cu Yd	18.4
Concrete (Approac	Supers		Cu Yd	87.8
Concrete		res	Cu Yd	27.4
Bridge D			Sq Yd	143
Protectiv			Sq Yd	228



NOTES
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- 1. 2.
- 3.
- 4
- 5.
- 6.
- bar bending details. 7. Curved bars shall be bent in the field.
- 8.
- \* Cut bars in field.
- \*\* Lap a33(E) bars with a31(E) and a35(E) bars, typ. each parapet.

- Eng						(Sheet 2 of 3)				
ode 	•	USER NAME = sapant	DESIGNED - SAT	REVISED -		BRIDGE APPROACH SLAB DETAILS - EAST	F.A.U. BTE	SECTION	COUNTY	TOTAL SHEET
AME	Accurate GROUP, INC.		CHECKED - SPS	REVISED -	STATE OF ILLINOIS	SN 016-2417	3603	2010-141-B	соок	114 86
DEL		PLOT SCALE =	DRAWN – JN	REVISED -	DEPARTMENT OF TRANSPORTATION	5N 010-2417			CONTRAC	T NO 60N21
FILE		PLOT DATE = 3/12/2019	CHECKED - JMT	REVISED -		SHEET S-11 OF S-21 SHEETS		ILLINOIS FED. A	D PROJECT	

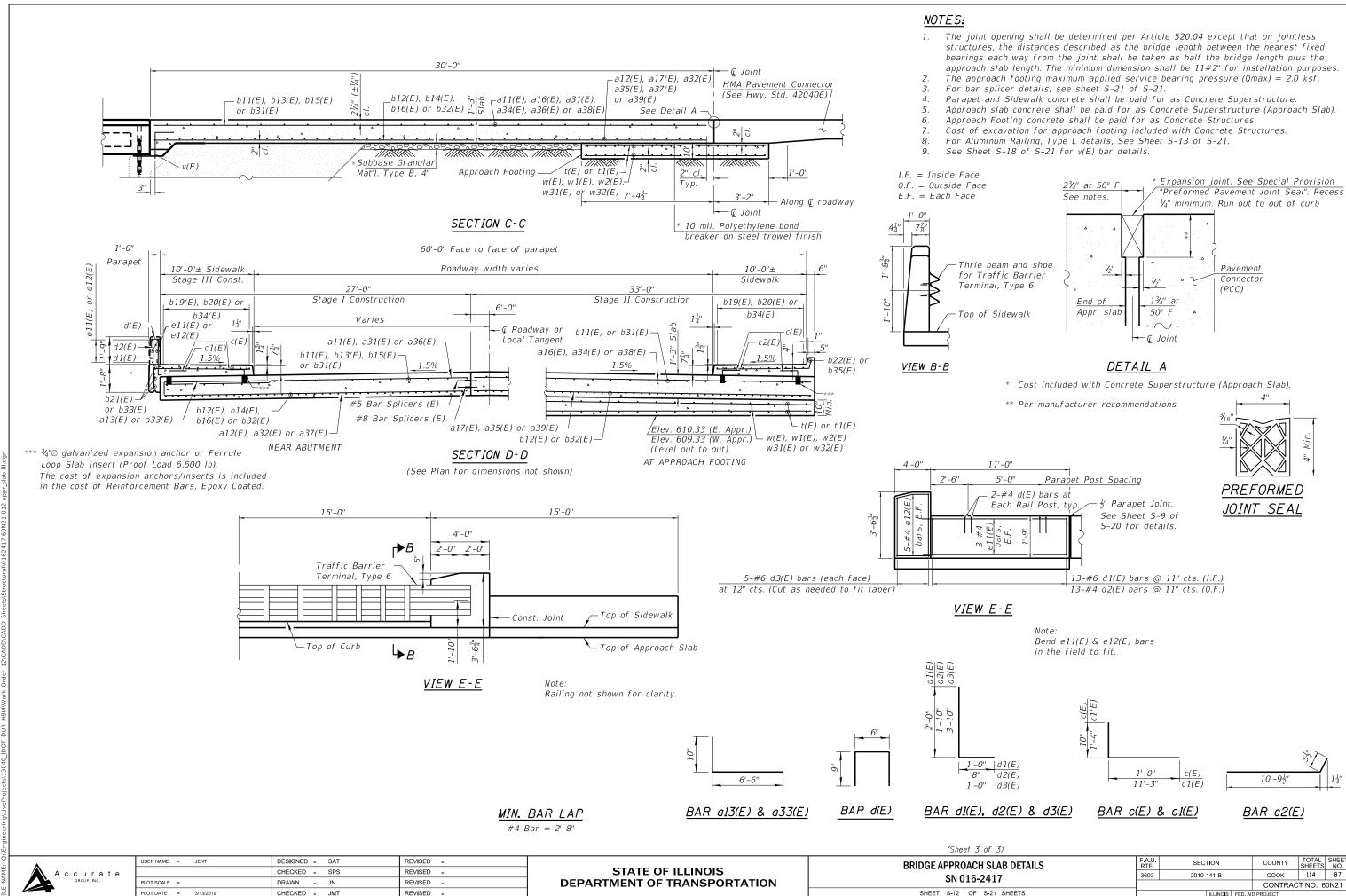
3/12/2019 10:55:09 AM

a31(E), a32(E), a34(E) and a35(E) bar spacings measured along Q Rdwy. The joint opening shall be determined per Article 520.04 except that on jointless structures, the distances described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be  $1\frac{1}{2}$ " for installation purposes. Parapet and Sidewalk concrete shall be paid for as Concrete Superstructure. Approach slab concrete shall be paid for as Concrete Superstructure (Approach Slab). Approach Footing concrete shall be paid for as Concrete Structures. See Sheet S-12 of S-21 for section C-C, section D-D, view B-B, view E-E and

See Sheet S-18 of S-21 for v(E) bar bar details.

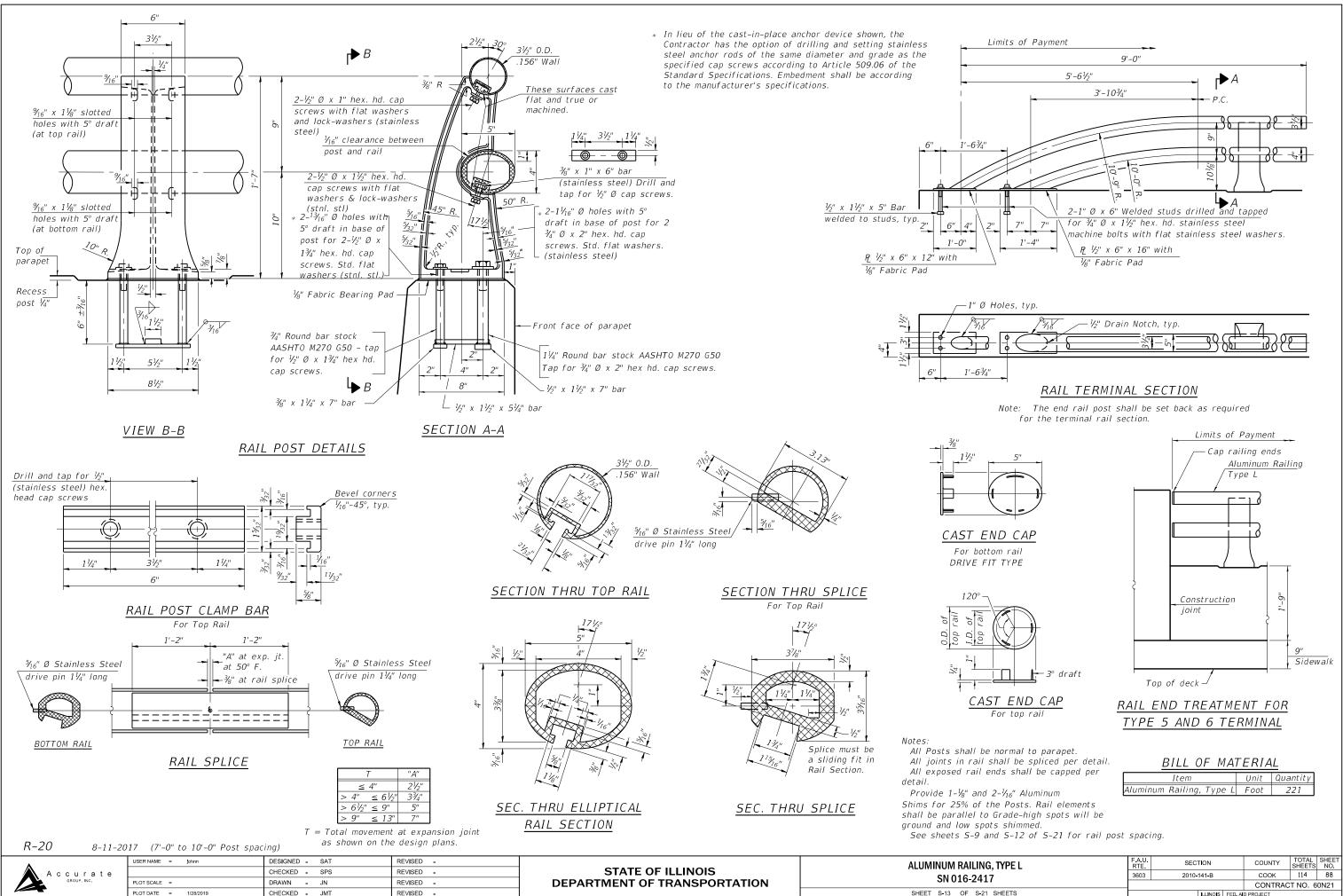
Bar	No.	Cizo	Length	Shape
	23	Size		Shape
a31(E)		#5	28'-3''	
a32(E)	31	#8	28'-3"	
a33(E)	46	#5	7'-4"	
a34(E)	23	#5	34'-7"	
a35(E)	31	#8	34'-7"	—
a36(E)	23	#5	28'-10"	
a37(E)	30	#8	28'-10"	
a38(E)	23	#5	35'-2"	—
a39(E)	30	#8	35'-2"	—
b31(E)	91	#5	29'-8''	—
b32(E)	145	#9	29'-8"	
b33(E)	6	#5	14'-8''	—
b34(E)	22	#5	29'-8"	
b35(E)	2	#4	14'-8''	
c(E)	124	#5	1'-10''	
c1(E)	32	#5	12'-7"	
c2(E)	32	#5	11'-3"	
d(E)	8	#4	2'-0"	Π
d1(E)	26	#6	3'-0"	L
d2(E)	26	#4	2'-6"	
d3(E)	20	#6	4'-10"	
	20	<i>"</i> 0	, 10	
e11(E)	12	#4	13'-8''	
e12(E)	20	#4	3'-8"	
012(2)	20		5 0	
t1(E)	128	#4	10'-3''	
(1)	120	77	10 5	
w31(E)	40	#5	28'-9"	
w32(E)	40	#5	35'-1"	
WJZ(L)	40	#J	55-1	
Reinforcen	ont Par	C.		
Epoxy Coa		5,	Pound	37,010
Concrete S		ucture	Cu Yd	19.4
Concrete S				
(Approach	,	ucture	Cu Yd	83.9
Concrete S		26	Cu Yd	76.0
				26.8
Bridge Dec		тту	Sq Yd	129
Protective	coal		Sq Yd	220

### EAST APPROACH BILL OF MATERIAL



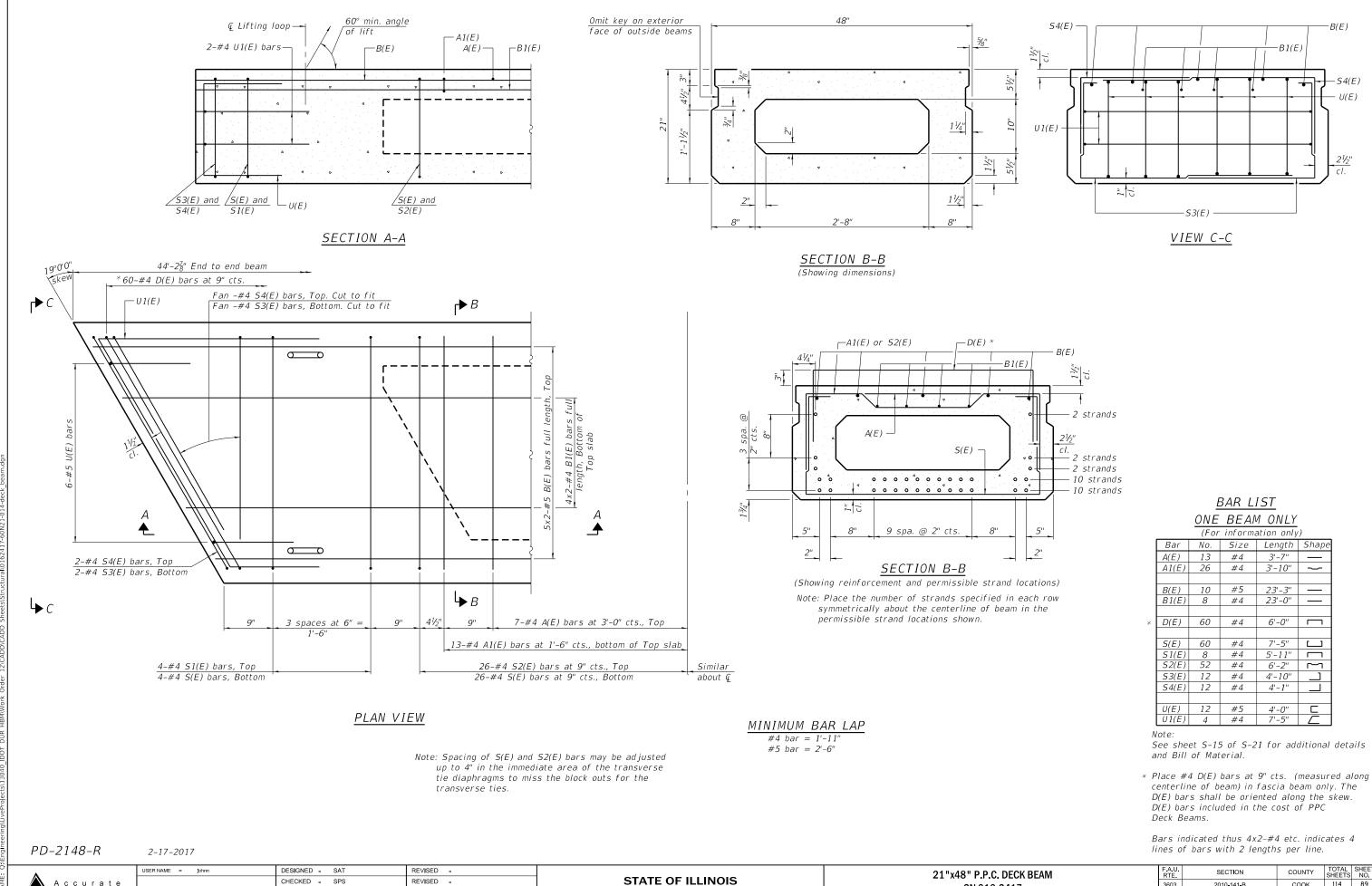
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of 3)							
I SLAB DETAILS 2417		SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
		2010-141-B			COOK	114	87
					CONTRAC	T NO. 6	0N21
S-21 SHEETS			ILLINOIS	FED. All	D PROJECT		



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SHEET S-13 O



**DEPARTMENT OF TRANSPORTATION** 

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Accurate

LOT SCALE =

PLOT DATE = 1/28/2019

DRAWN - JN

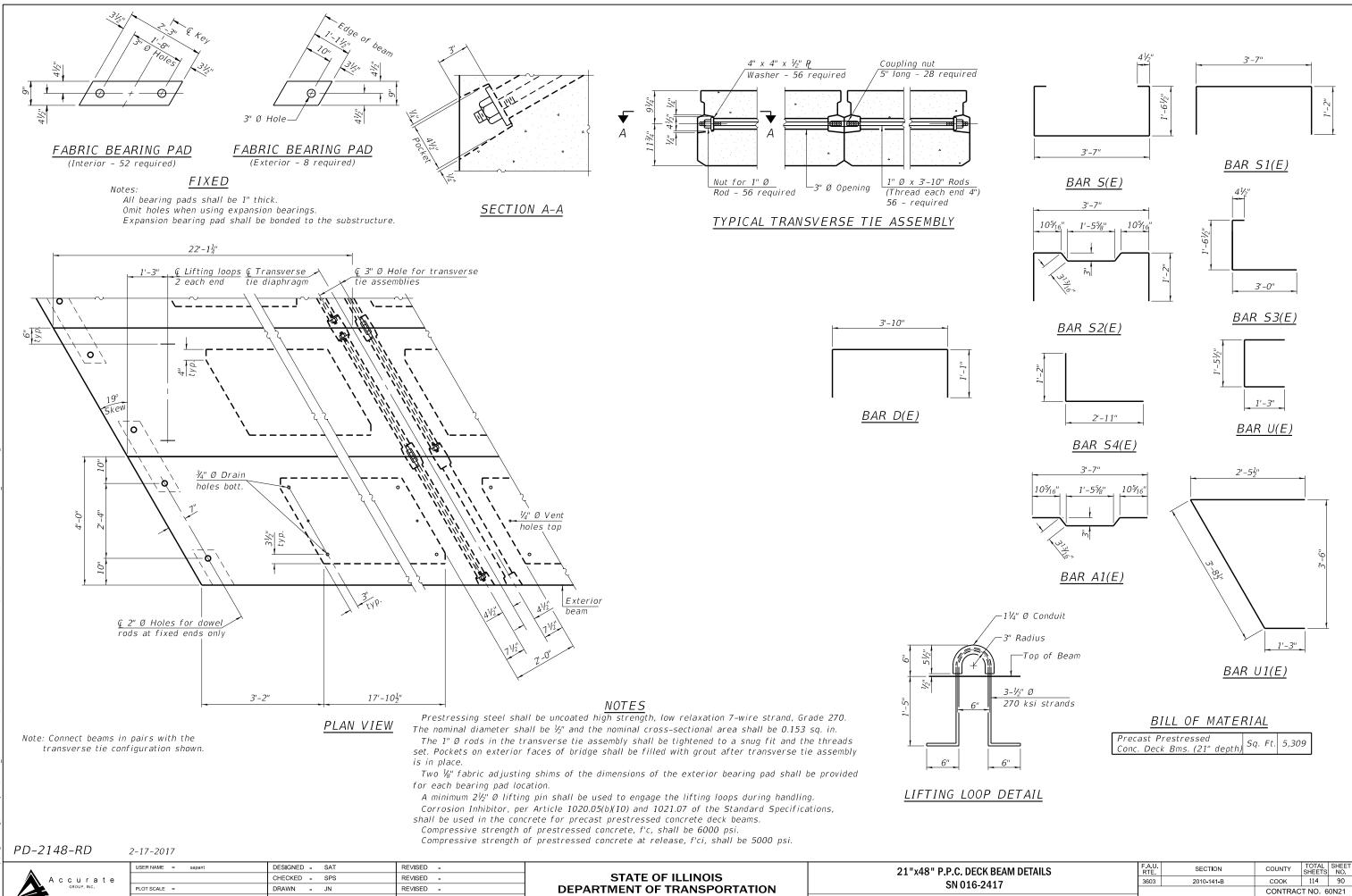
CHECKED - JMT

REVISED -

REVISED -

	(For	informa	ation only	)
Bar	No.	Size	Length	Shape
A(E)	13	#4	3'-7"	
A1(E)	26	#4	3'-10"	~~
B(E)	10	#5	23'-3''	
B1(E)	8	#4	23'-0"	
D(E)	60	#4	6'-0''	
S(E)	60	#4	7'-5"	ப
S1(E)	8	#4	5'-11"	
S2(E)	52	#4	6'-2"	$\sim$
S3(E)	12	#4	4'-10''	
S4(E)	12	#4	4'-1''	
U(E)	12	#5	4'-0''	
U1(E)	4	#4	7'-5"	

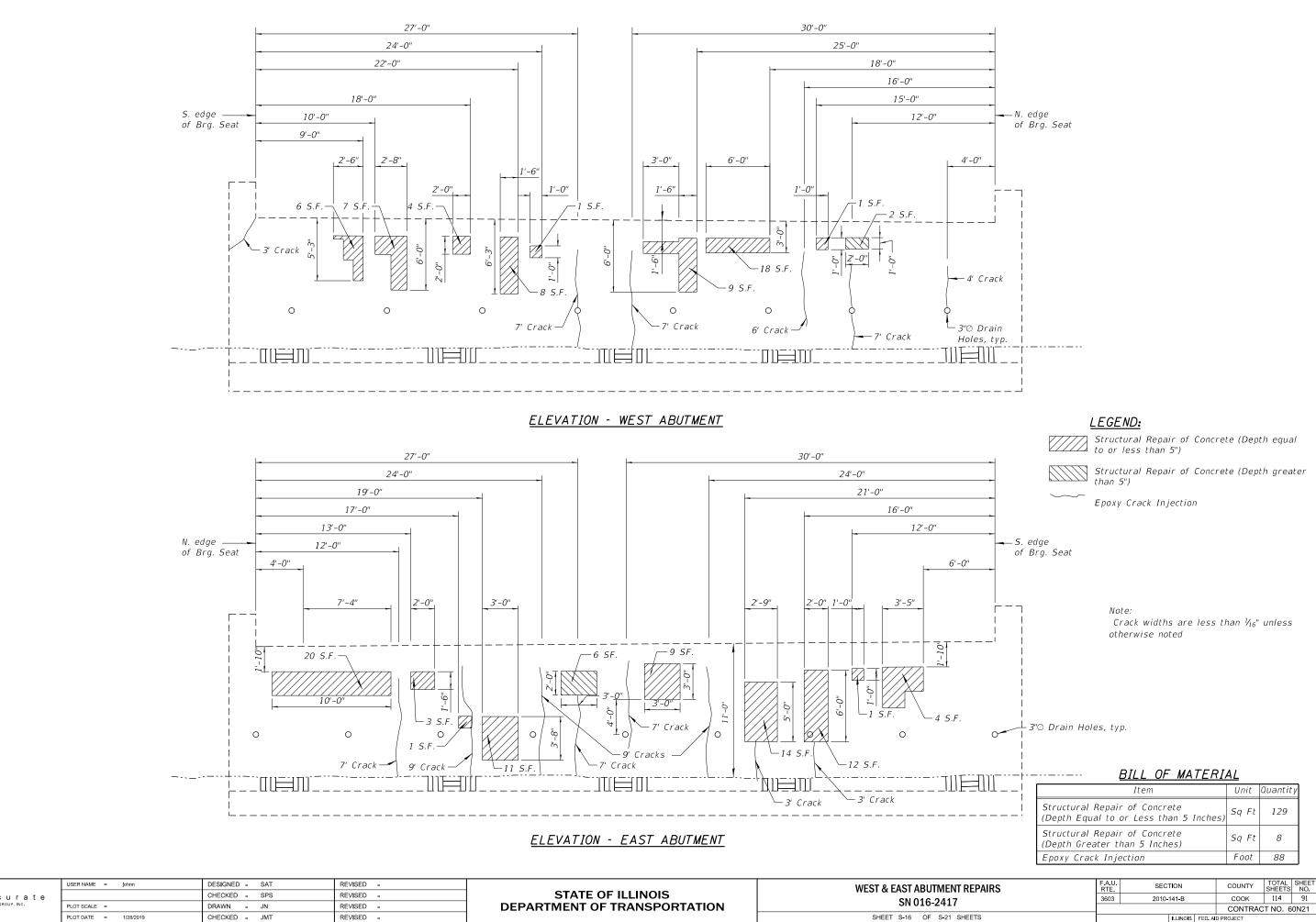
DECK BEAM 417		F.A.U. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		603 2010-141-B			соок	114	89
					CONTRAC	T NO. 6	0N21
S-21 SHEETS			ILLINOIS	FED. A	D PROJECT		



PLOT DATE = 3/12/2019

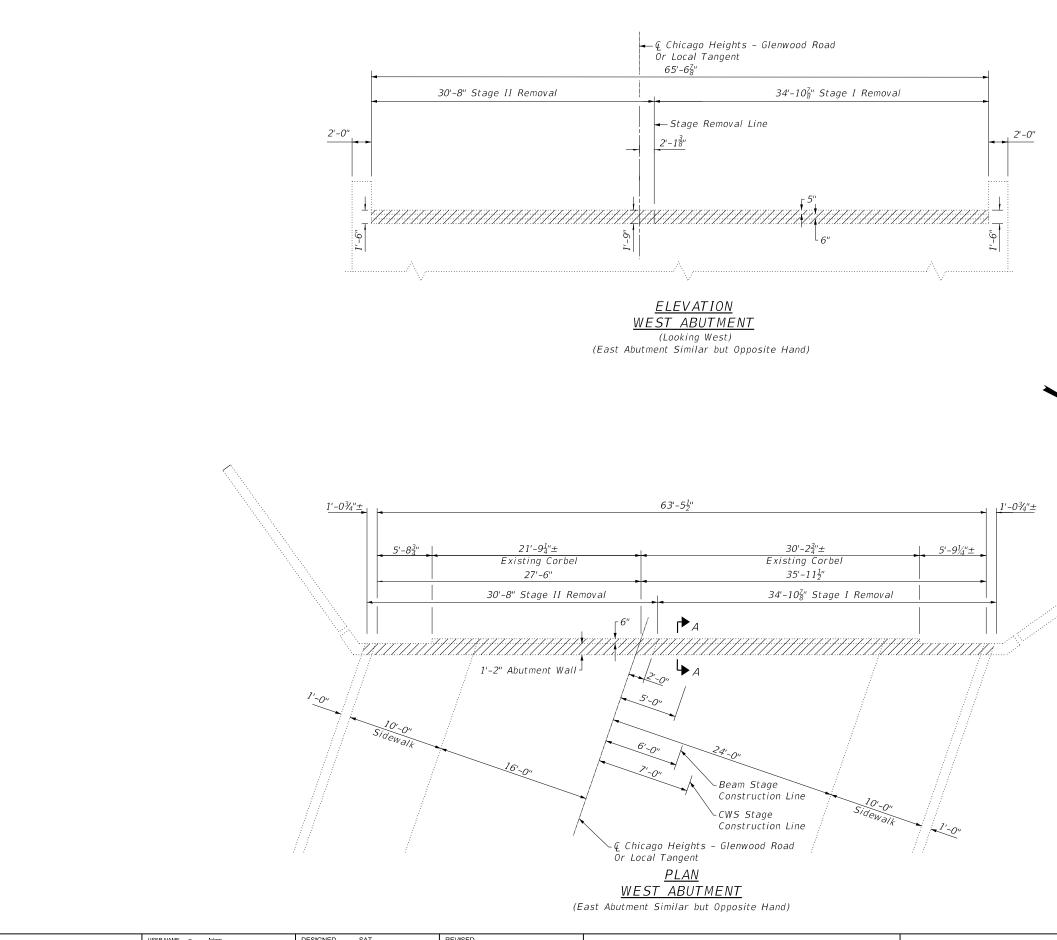
CHECKED - JMT

REVISED -



	<b>A</b>	USER NAME = Johnn	DRAWN JN REVISED - DEPARTMENT OF TRANSPORTATION		WEST & EAST ABUTMEN	
	🔺 Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS	
	GROUP, INC.	PLOT SCALE =	DRAWN – JN	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 016-2417
		PLOT DATE = 1/28/2019	CHECKED - JMT	REVISED -		SHEET S-16 OF S-21 S
	1/20/2010 1.22 FF BM					

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vlodel E: Q:tengineeringluiveProjects\13040\_IDOT DUR HBM\Work Order 12\CADD\CADD Sheets\Structural\0162417-60N21-017-W&E

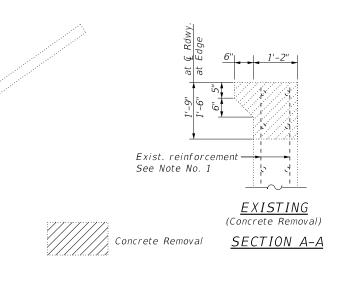
ode	•	USER NAME = Johnn	DESIGNED - SAT	REVISED -		WEST & EAST ABUTMENT REMOVAL	F.A.U.	SECTION	COUNTY TOTAL SHEE
Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS	SN 016-2417	3603	2010-141-B	СООК 114 92	
	GROUP, INC.	PLOT SCALE =	DRAWN – JN	REVISED -	DEPARTMENT OF TRANSPORTATION	5N 010-2417			CONTRACT NO. 60N21
U HI		PLOT DATE = 1/28/2019	CHECKED - JMT	REVISED -		SHEET S-17 OF S-21 SHEETS		ILLINOIS FED. A	D PROJECT

1/28/2019 4:23:56 PM

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

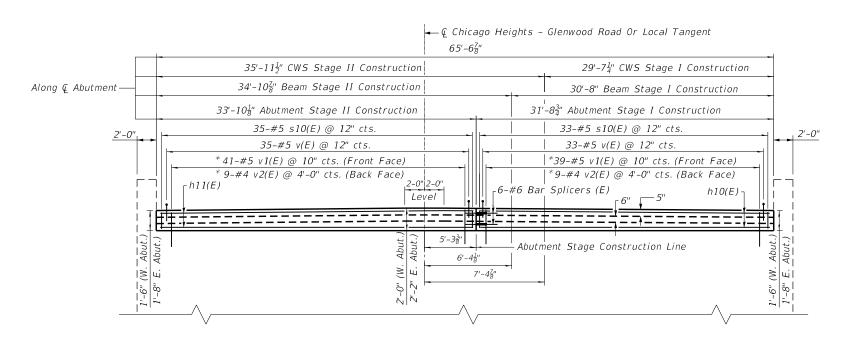
(West and East Abutments)

Item	Unit	Quantity
Concrete Removal	Cu Yd	10.2
Structure Excavation	Cu Yd	32

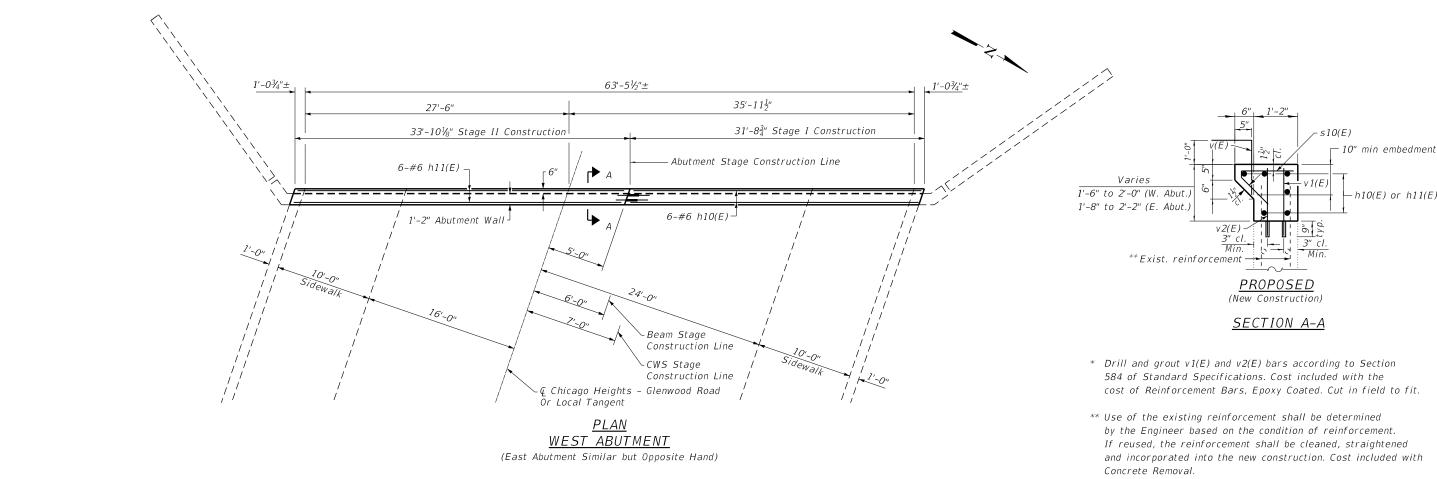


### <u>NOTES:</u>

- 1. Use of the existing reinforcement shall be determined by the Engineer based on the condition of reinforcement. If reused, the reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.
- 2. Any reinforcement bars that are damaged during the concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



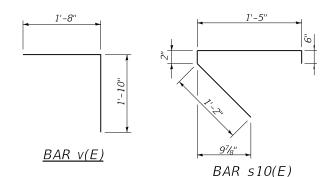
<u>ELEVATION</u> WEST ABUTMENT (Looking West) (East Abutment Similar but Opposite Hand)

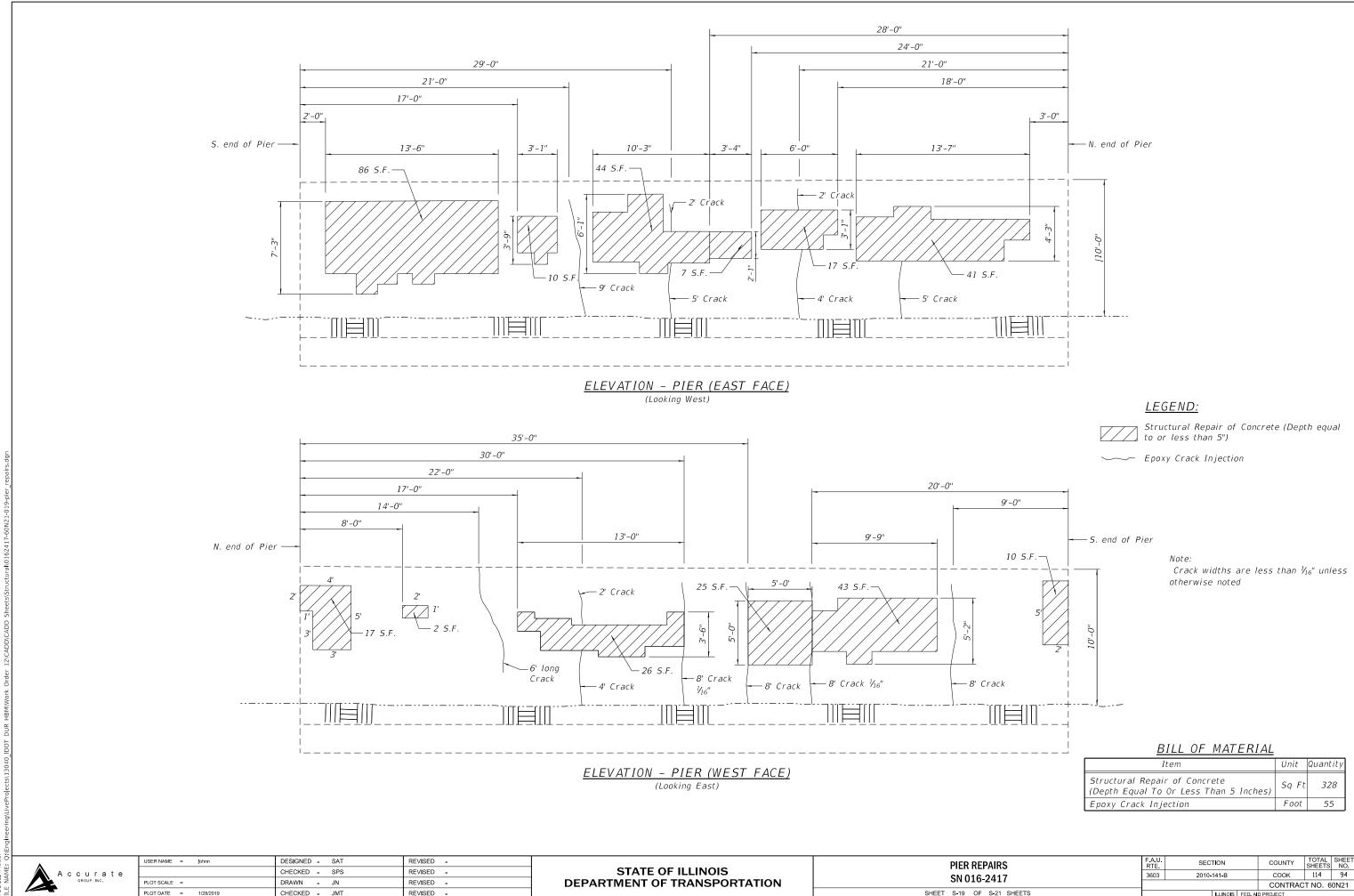


lode	•	USER NAME = Johnn	DESIGNED - SAT	REVISED -		WEST & EAST ABUTMENT DETAILS	F A U RTE	SECTION	COUNTY TO	JTAL SHEET HEETS NO.
AME	👗 Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS	SN 016-2417	3603	2010-141-B	соок 11	114 93
	GROUP, INC.	PLOT SCALE =	DRAWN – JN	REVISED -	DEPARTMENT OF TRANSPORTATION	3N 016-2417			CONTRACT N	NO. 60N21
MO		PLOT DATE = 1/28/2019	CHECKED - JMT	REVISED -		SHEET S18 OF S-21 SHEETS		ILLINOIS FED. A	D PROJECT	

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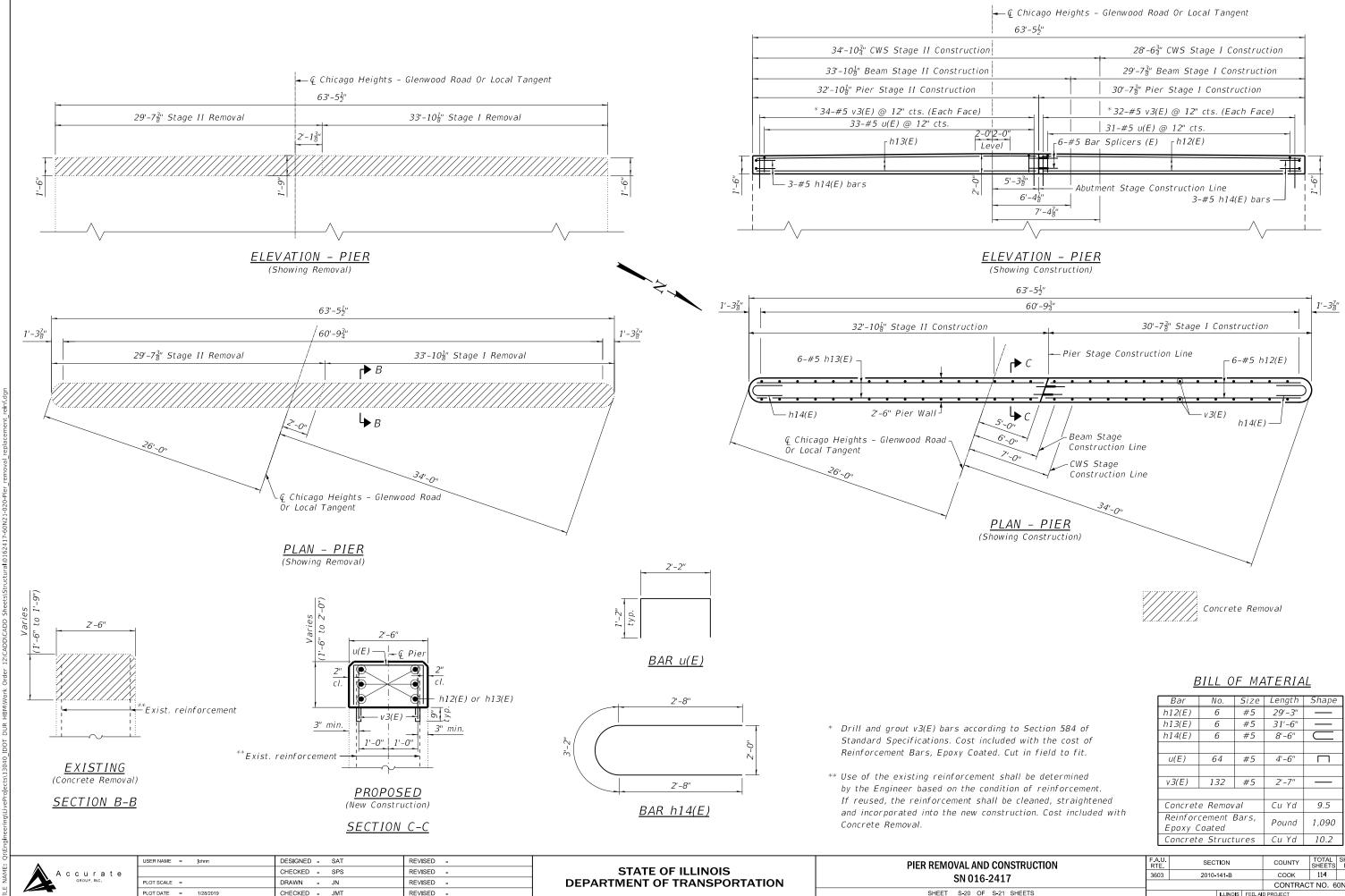
<u>BILL OF MATERIAL</u>										
()	Nest and	d East	Abutmen	ts)						
Bar	No.	Size	Length	Shape						
h10(E)	12	#6	31'-4"							
h11(E)	12	#6	33'-6"							
s10(E)	136	#5	3'-3''	[						
v(E)	136	#5	3'-6"							
v1(E)	160	#5	2'-9"	_						
v2(E)	36	#4	2'-9"	_						
Reinfor Epoxy C	cement i Coated	Pound	2,660							
Concret	e Struct	ures	Cu Yd	12.5						





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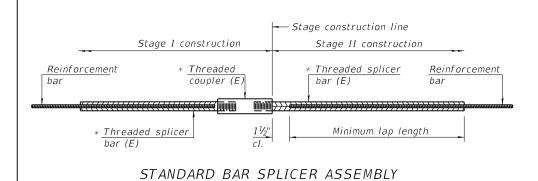
SHEET S-19 OF S-21 SHEETS ILLINOIS FED. AID PROJECT



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SHEET S-20 OF S-21

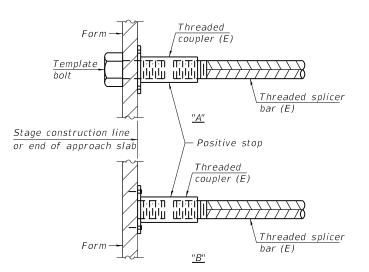
		Bar	No.	Size	Length	Shape	
	h	12(E)	6	#5	29'-3"		
ing to Section 584 of	h	1 <i>3(E)</i>	6	#5	31'-6"		
uded with the cost of	h	n14(E)	6	#5	8'-6"	$\Box$	
d. Cut in field to fit.							
a. cat in thera to tht.		u(E)	64	#5	4'-6"		
shall be determined							
		v3(E)	132	#5	2'-7"		
dition of reinforcement.							
l be cleaned, straightened	Concrete Removal				Cu Yd	9.5	
nstruction. Cost included with		Reinforcement Bars, Epoxy Coated			Pound	1,090	
		Concret	e Struct	ures	Cu Yd	10.2	
CONSTRUCTION	F.A.U. RTE		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
417	3603		2010-141-B		СООК	114	95
					CONTRA	CT NO. 6	0N21
S-21 SHEETS			ILLINO		PROJECT		



Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

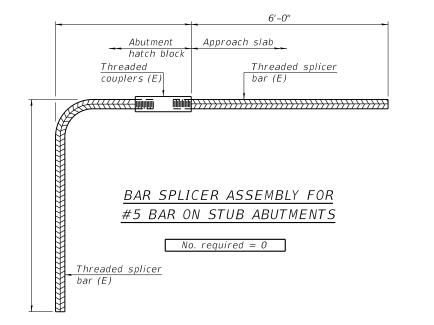
Location	Bar size	No. assemblies required	Minimum Iap length
Wearing Surface	#5	89	3'-0"
West Appr. Slab (Top Bars)	#5	46	3'-0"
West Appr. Slab (Bott. Bars)	#8	61	4'-9''
West Appr. Footing (Top & Bott. Bars)	#5	40	3'-0"
East Appr. Slab (Top Bars)	#5	46	3'-0"
East Appr. Slab (Bott. Bars)	#8	61	4'-9''
East Appr. Footing (Top & Bott. Bars)	#5	40	3'-0"
West Abutment	#6	6	4'-6"
East Abutment	#6	6	4'-6"
Pier	#5	6	3'-0"



### INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

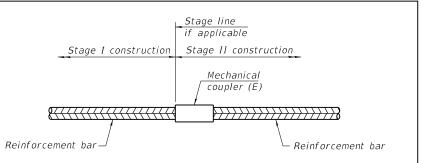




2-17-2017

- 21	050 1	2 17 2017								
ode Ode	•	USER NAME = Johnn	DESIGNED - SAT	REVISED -		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.U. BTE	SECTION	COUNTY TOTA	AL SHEET
A ME	🔺 Accurate		CHECKED - SPS	REVISED -	STATE OF ILLINOIS		3603	2010-141-B	соок 114	4 96
GROUP, INC. PLO	PLOT SCALE =	DRAWN - JN	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 016-2417			CONTRACT NO.	). 60N21	
		PLOT DATE = 1/28/2019	CHECKED - JMT	REVISED -		SHEET S-21 OF S-21 SHEETS	ILLINOIS FED. AID PROJECT		ND PROJECT	
-	1/20/2010 1.21.02 PM									

RSD-1



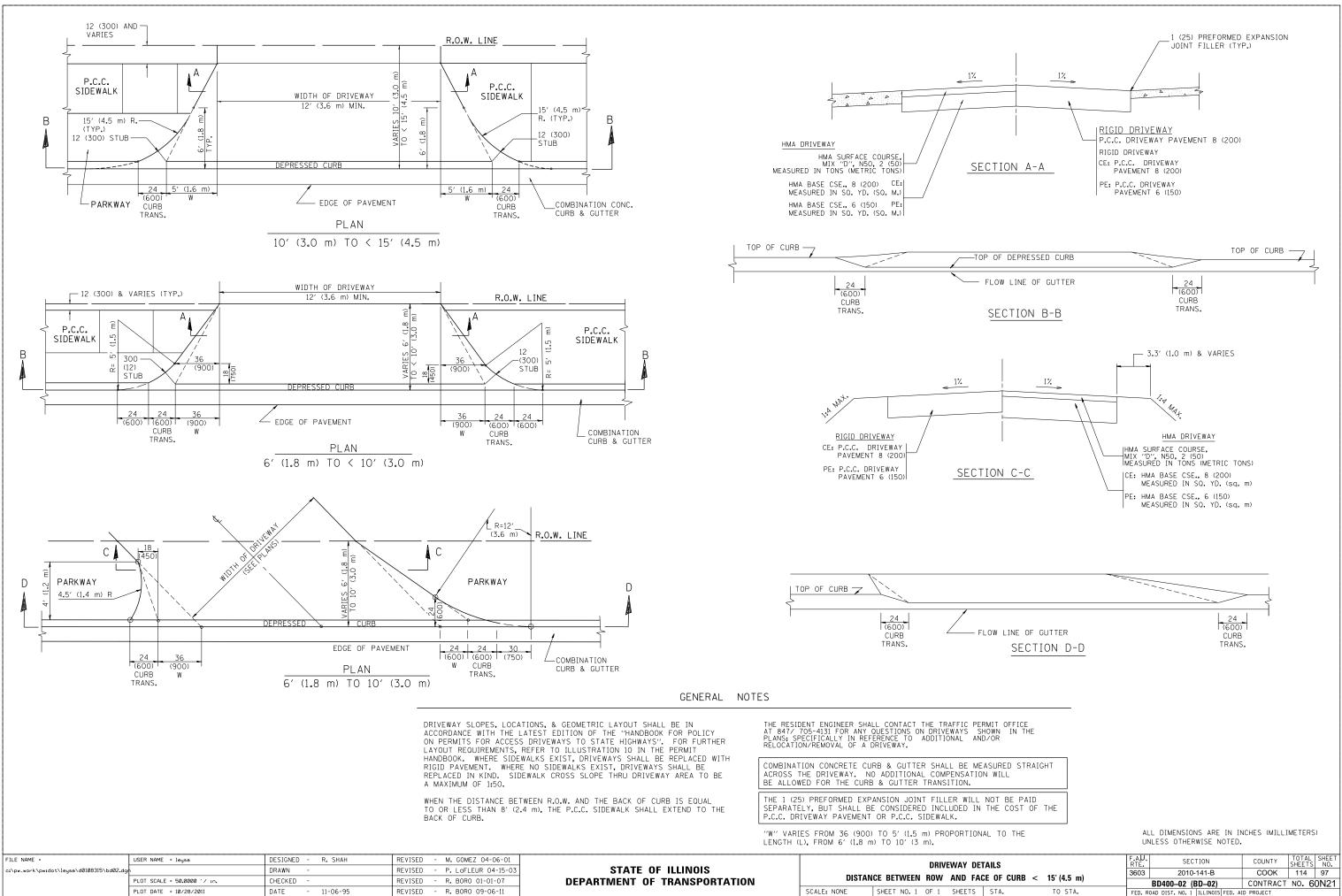
# STANDARD MECHANICAL SPLICER

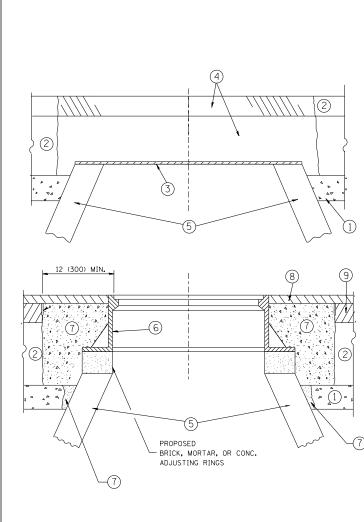
Location	Bar	No. assemblies
LUCALIUII	size	required

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.





### NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED. THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

### DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

FILE NAME =	=	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04			DETAILS FOR	F.A.U. RTF.	SECTION	COUNTY TOTAL SHEET	
c:\pw_work\p	pwidot\bauerdl\d0108315\bd08.	lgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS			3603	2010-141-B	COOK 114 97A	
		PLOT SCALE = 1968.5000 '/ m	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION	FRAMES AND LIDS ADJUSTMENT WITH MILLING		BD	600-03 (BD-8)	CONTRACT NO. 60N21	
		PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD [		ED. AID PROJECT	

### CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE. B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE. D) BACKFILL WITH CRUSHED STONE AND A MINIMUM  $1^{\prime}_{2}$  (40)
- THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.
- STAGE 2 (AFTER PAVEMENT MILLING)
  - A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
  - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
  - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
  - \* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1	SUB-BASE GRANULAR MATERIAL	6 FRAME AND LID (SEE NOTES)
2	EXISTING PAVEMENT	CLASS PP-1* CONCRETE
3	36 (900) DIAMETER METAL PLATE	(8) PROPOSED HMA SURFACE COURSE
4	PROPOSED CRUSHED STONE AND HMA SURFACE MIX	
(5)	EXISTING STRUCTURE	9 PROPOSED HMA BINDER COURSE

(5) EXISTING STRUCTURE

### LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

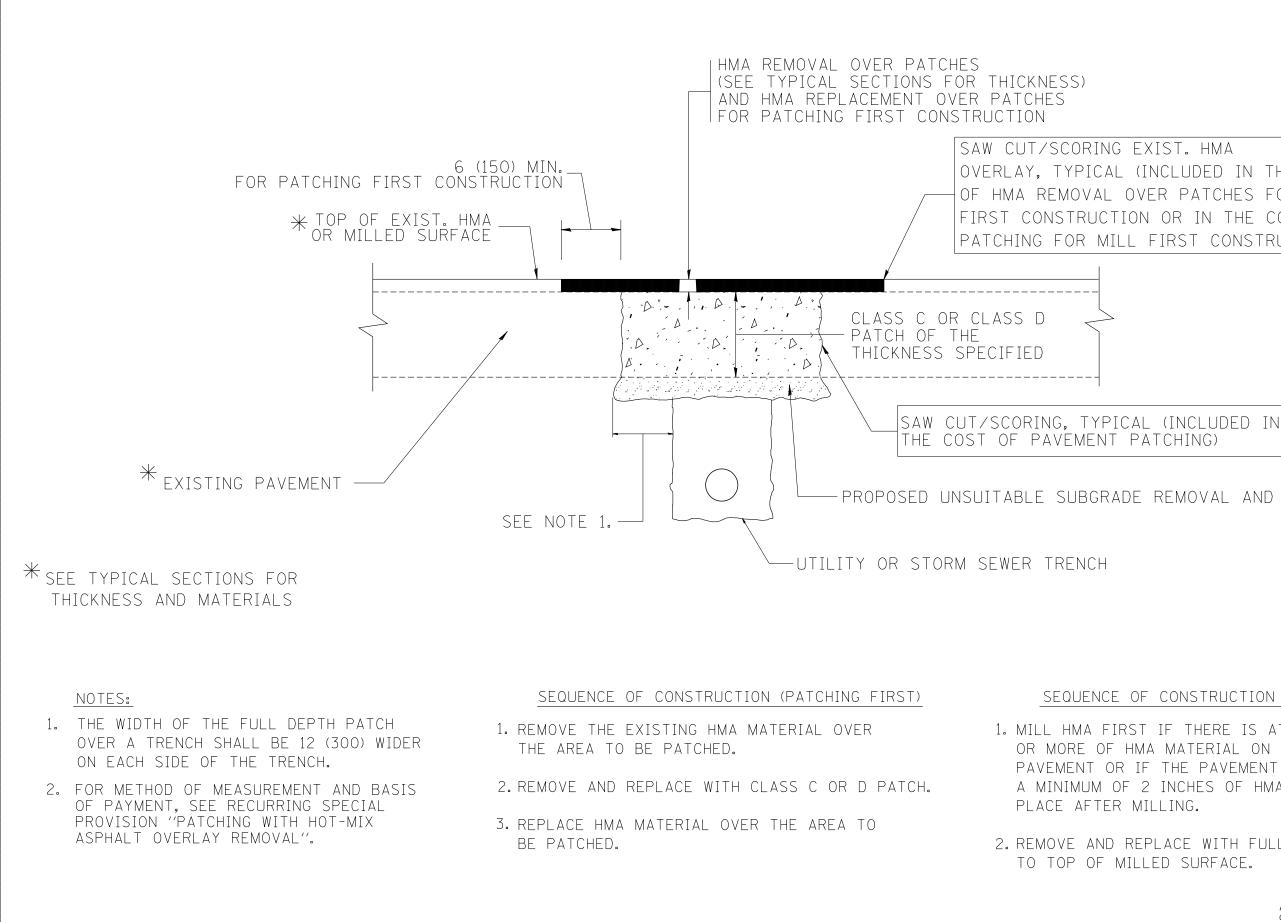
### BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

	ALL	DIMENSIONS	ARE	IN	INCHES	(MILLIMETERS)	UNLESS	OTHERWISE	SHOWN
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						ALL DIMENSIONS ARE IN INCH OTHERWISE SHOWN.	ES (MILLIMETERS) UNLESS
FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.U. SECTION	COUNTY TOTAL SHEET
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		3603 2010-141-B	СООК 114 98
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 60N21
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED	

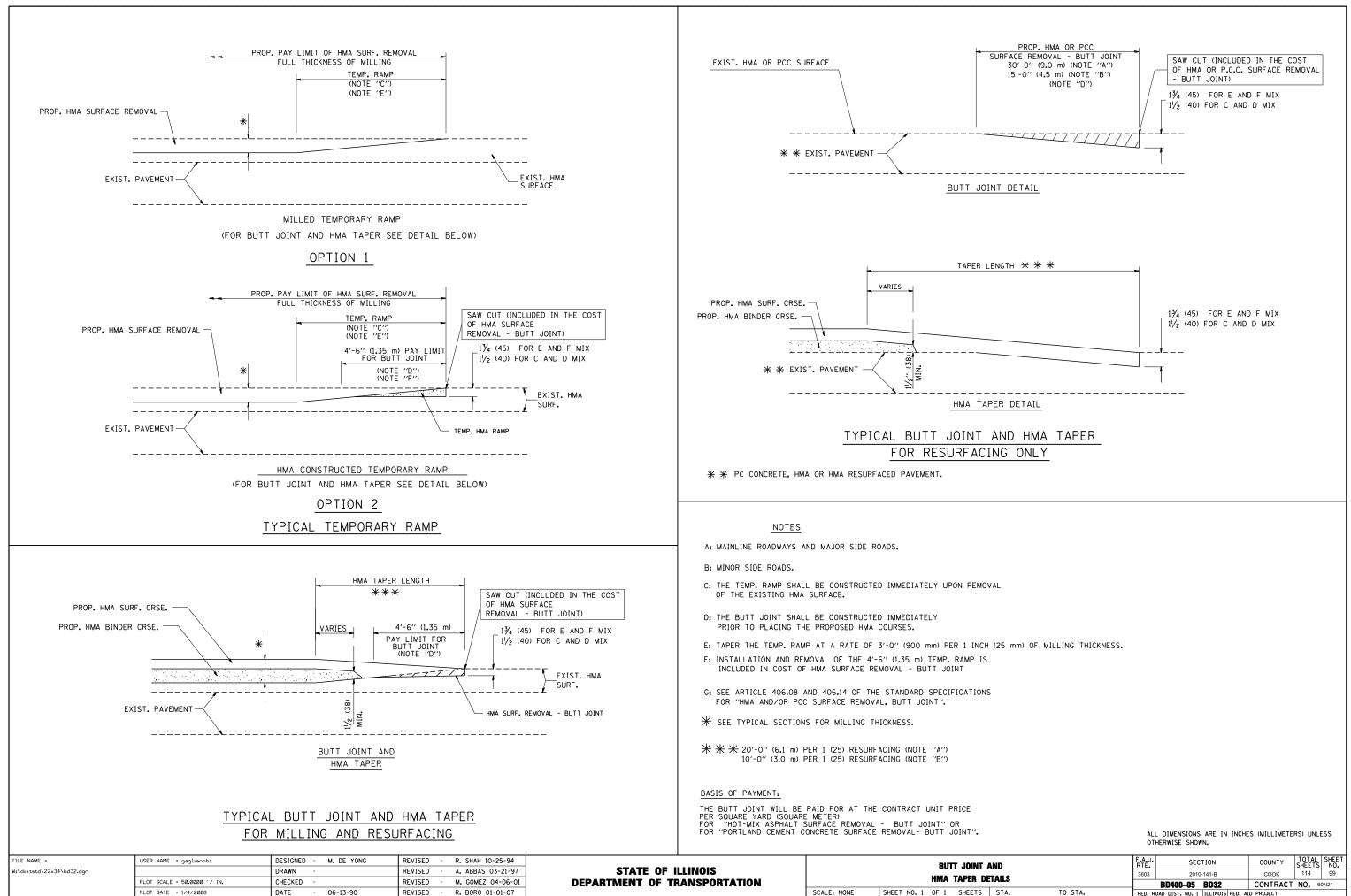
OVERLAY, TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

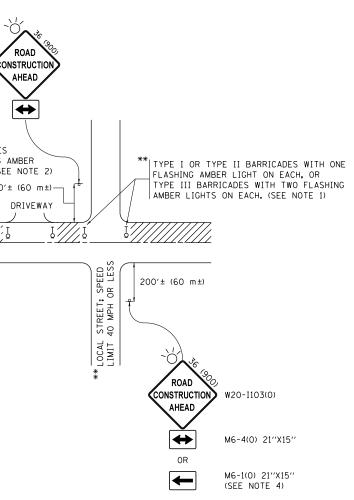
1. MILL HMA FIRST IF THERE IS AT LEAST  $4\frac{1}{2}$  INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN

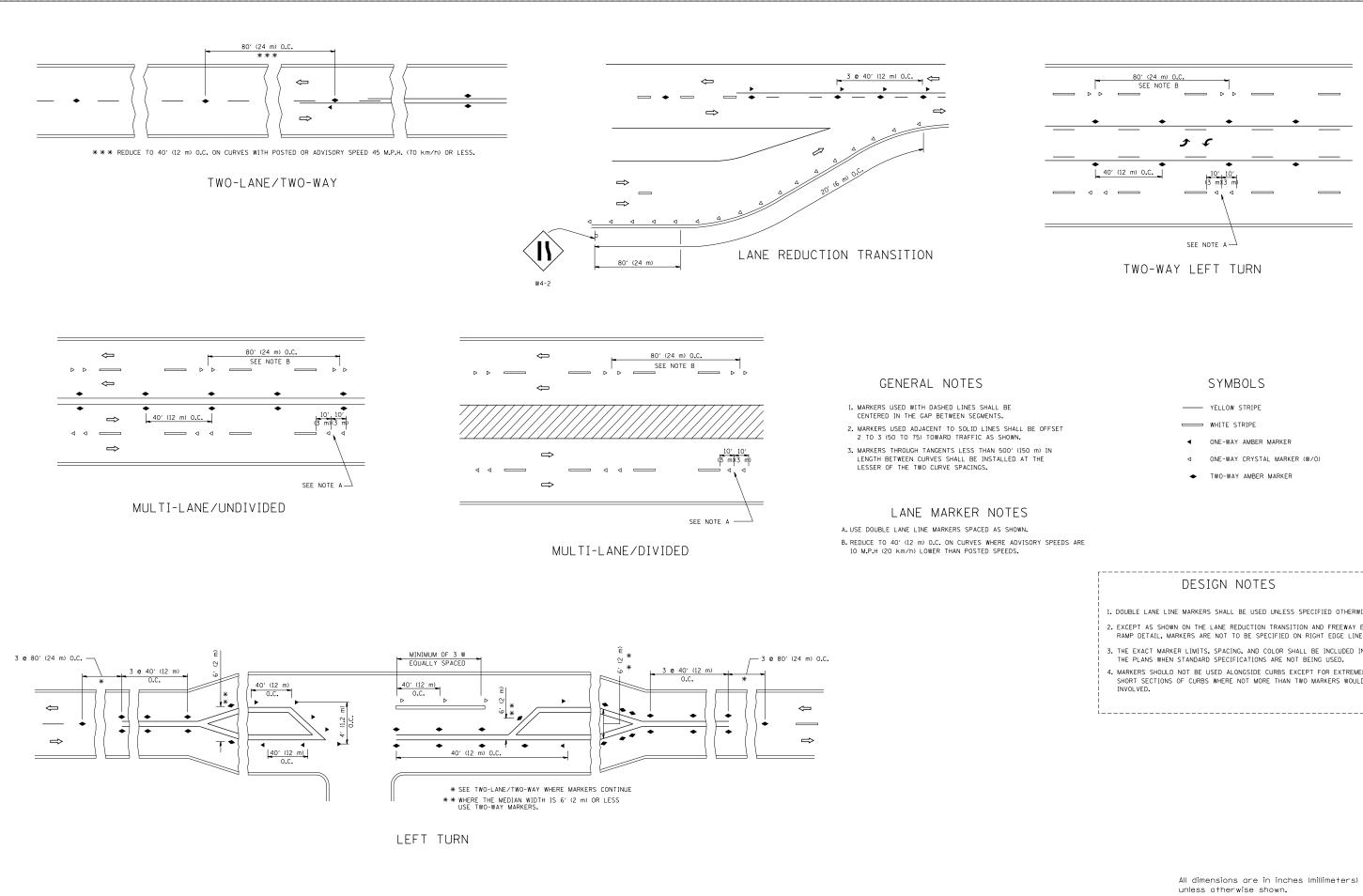
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.



AND		F.A.U. RTE.	SECTION	COUNTY TOTAL SHEETS		SHEET NO.	
		3603	2010-141-B	COOK	114	99	
	DETAILS			BD400-05 BD32	CONTRACT	NO. 6	0N21
	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

TYPE I I BARRICADES WITH ONE 1 1920 1 1920
NOTES:
<ol> <li>SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:</li> <li>ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.</li> <li>THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:</li> <li>ON CM "ROAD CONSTRUCTION AHEAD" SIGN 48 × 48 (1,2 m × 1,2 m) WITH A FLASHER MOUNTED.</li> <li>THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE II BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.</li> <li>WHEN THE SIDE ROAD LIES BETWEEN THE BEGINING OF THE MAINLINE SUBSTINUE FOR DARTICADES OF THE MAINLINE SUBSTINUE WORK AND THE WORK CONE, A SINGLE HEADED ARROW (MG-4).</li> </ol>
All dimensions are in inches (millimeters) unless otherwise shown.
TRAFFIC CONTROL AND PROTECTION FOR     F.A.U. RTE.     SECTION     COUNTY     TOTAL     SHEET       F TRANSPORTATION     SCALE: NONE     SHEET 1     OF 1     SHEET     STA.     TO STA.     ILLINOIS FED. AID PROJECT

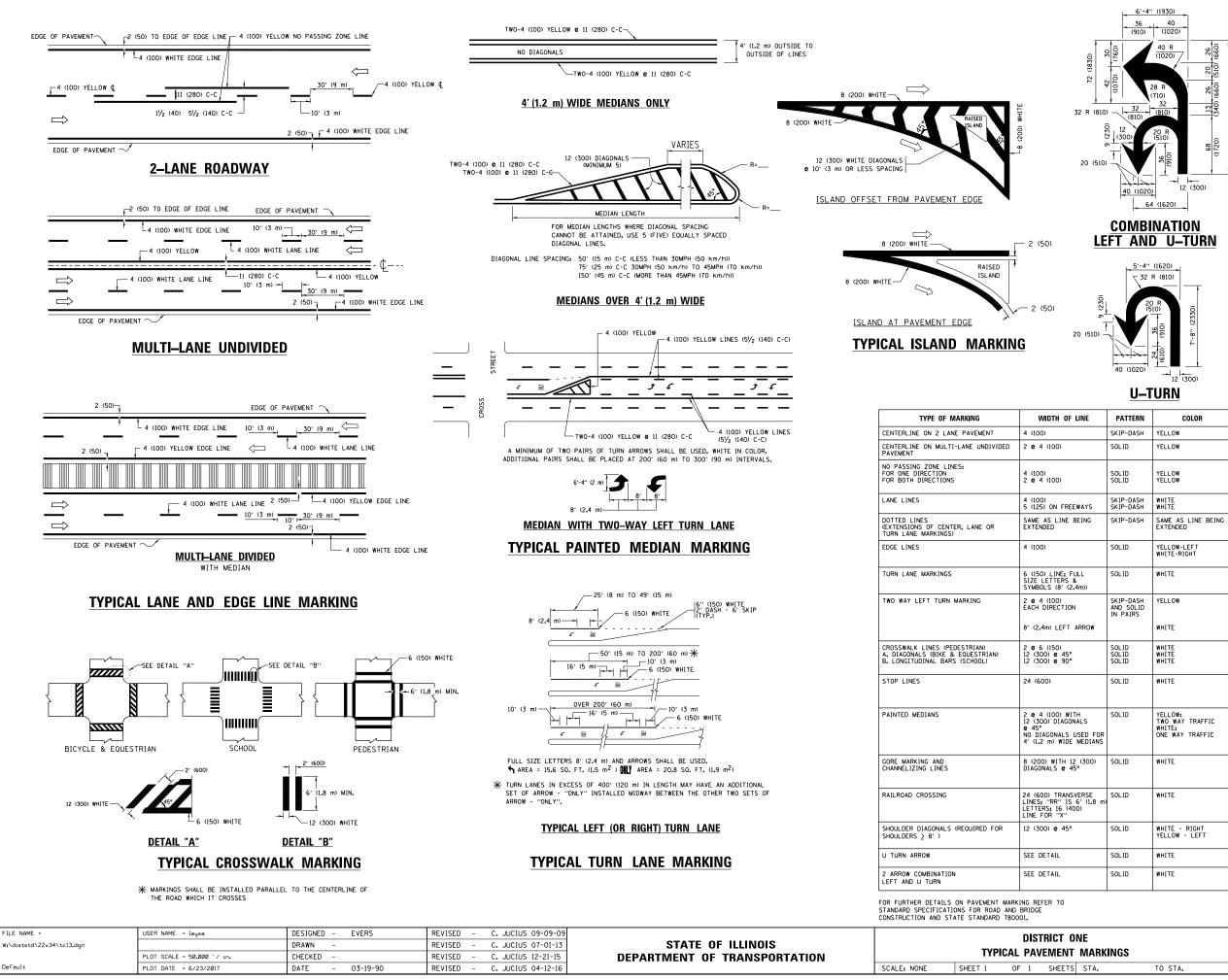


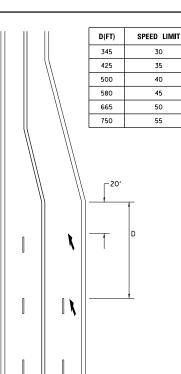


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c:\pw_work\pwidot\leysa\d0108315\tcl1.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS				
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	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	Γ

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

ATIONS	F.A.U. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
RS (SNOW-PLOW RESISTANT)	3603	2010-1	141-B		COOK	114	101
na (anuv-fluw healatant)		TC-11			CONTRACT	NO. 60	)N21
STA. TO STA.	FED. RO	AD DIST. NO. 1	ILLINOIS	FED. AI	D PROJECT		





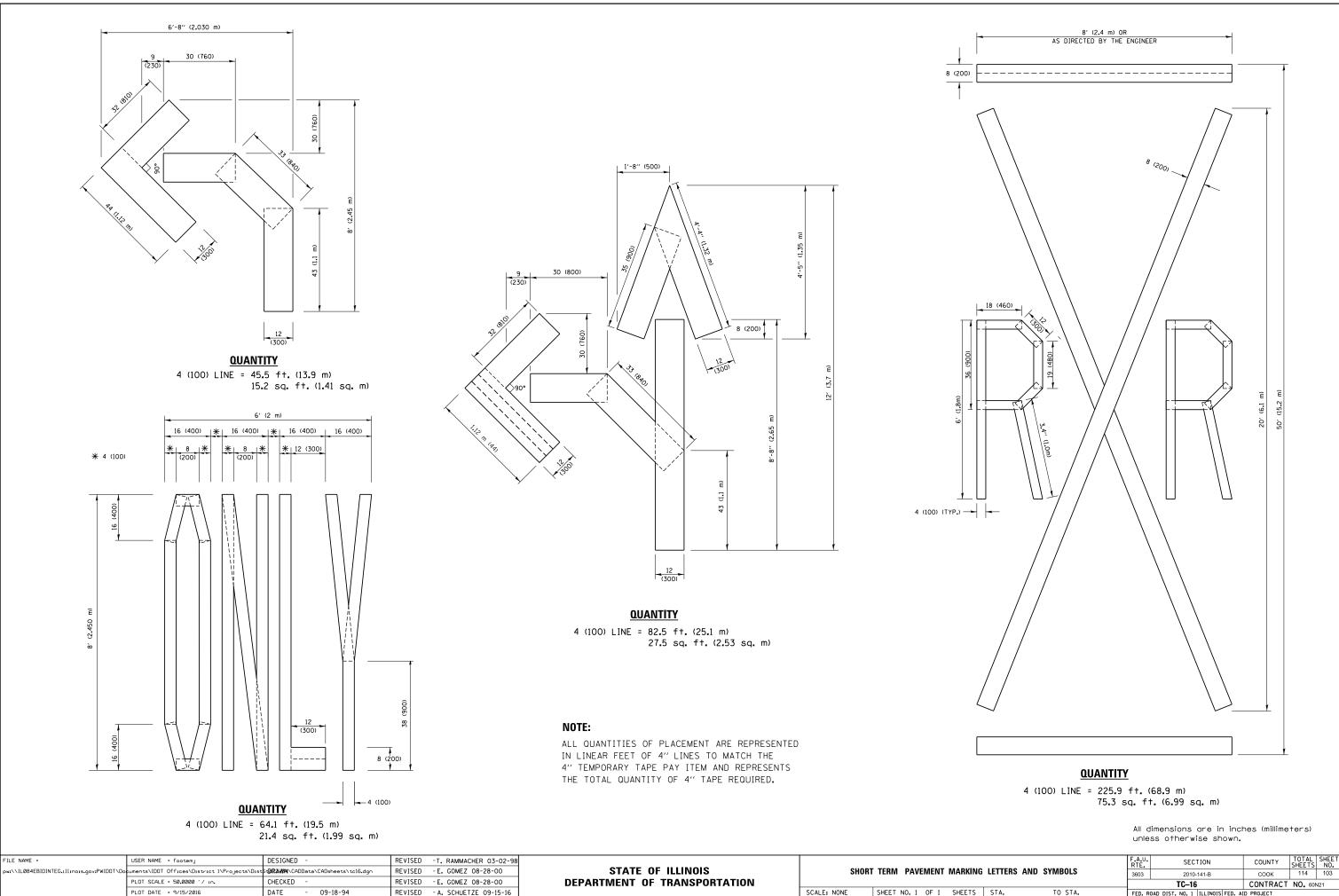
### LANE REDUCTION TRANSITION

# lane reduction arrows required at speeds of 45 MPH or greater or when specified in plans.

F LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
FULL & 2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
DN ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
•	SOL ID SOL ID SOL ID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4' (L2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERMISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
ITH DNALS USED FOR E MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
12 (300) 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) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
SVERSE 5 6' (1.8 m) 400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R":3.6 SO, FT. (0.33 m <sup>2</sup> ) EACH "X":=54,0 SO, FT. (5.0 m <sup>2</sup> )
•	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))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF

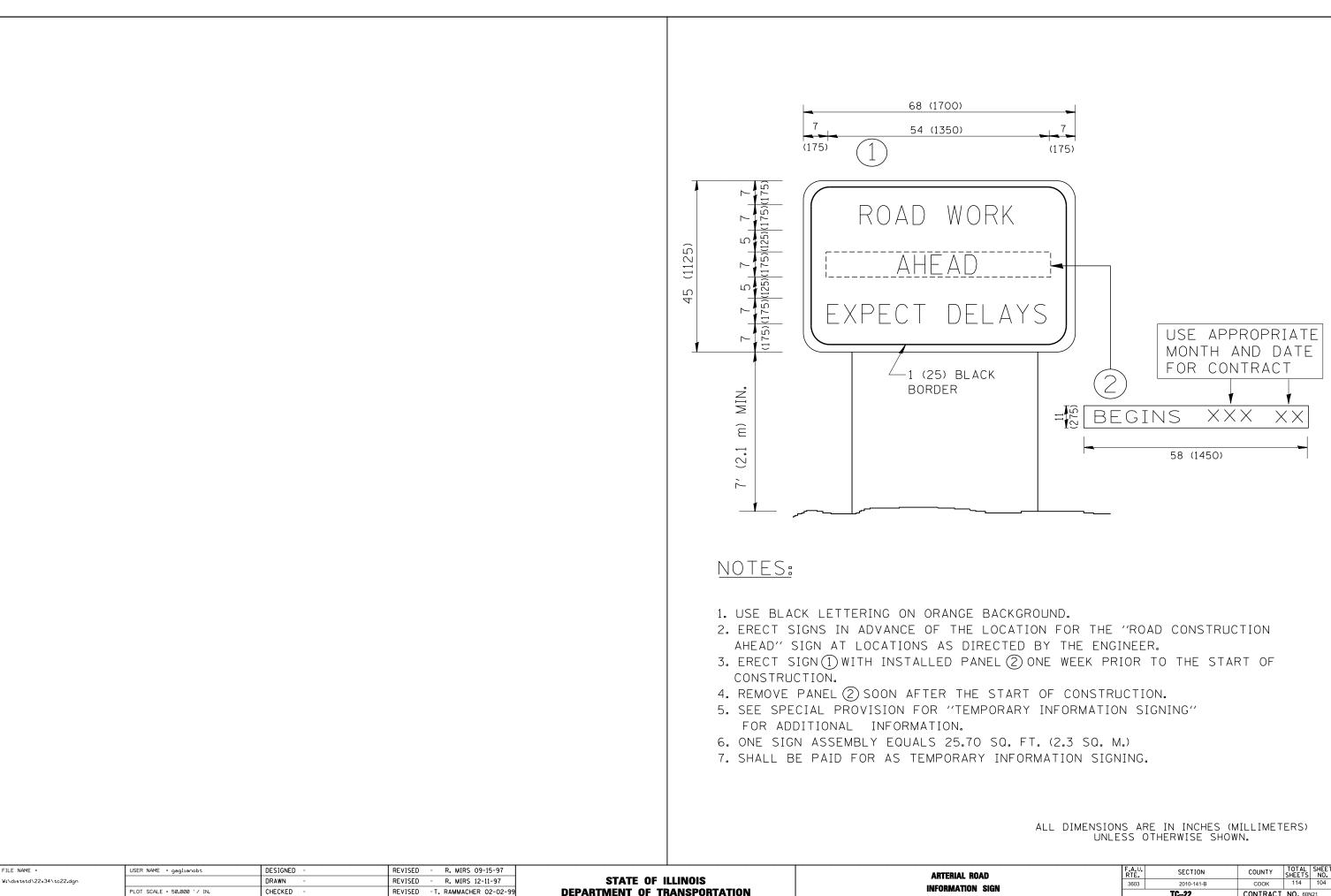
All dimensions are in inches (millimeters) unless otherwise shown.

ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T MARKINGS		3603	2010-141-B	соок	114	102
I WAIKINGS			TC-13	CONTRACT	NO. 60	N21
IS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



SCALE: NONE SHEET NO. 1 OF 1 SHEETS

			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IG	LETTERS AND	SYMBOLS	3603	2010-141-B	соок	114	103
				TC-16	CONTRACT	NO. 601	V21
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



REVISED - C. JUCIUS 01-31-07

PLOT DATE = 1/4/2008

DATE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

RO,	AD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
M	SIGN		3603	2010-141-B	СООК	114	104
-	alain			TC-22	CONTRACT	NO. 60N	121
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



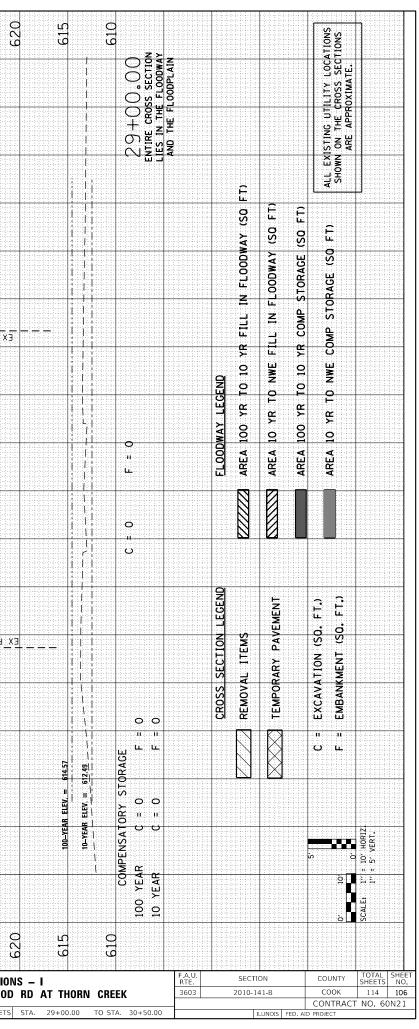
3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" × 5.0"

### NOTES:

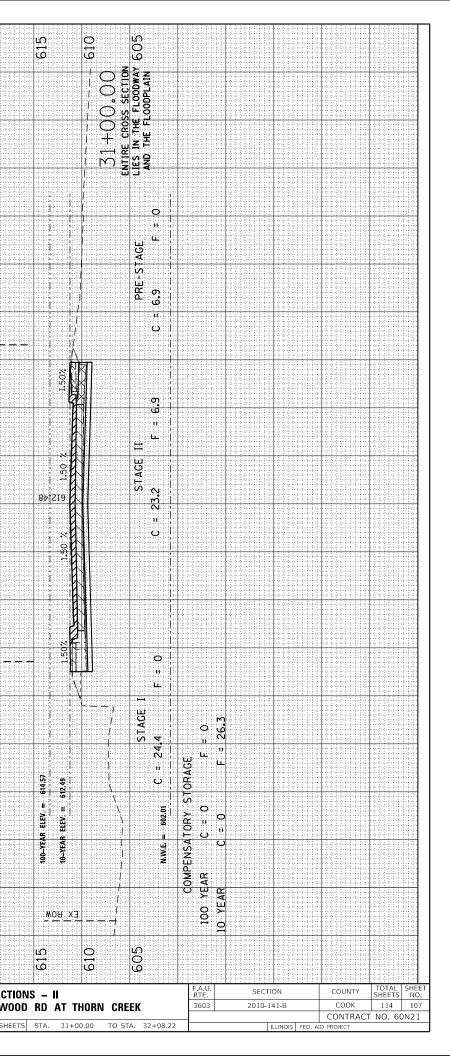
- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

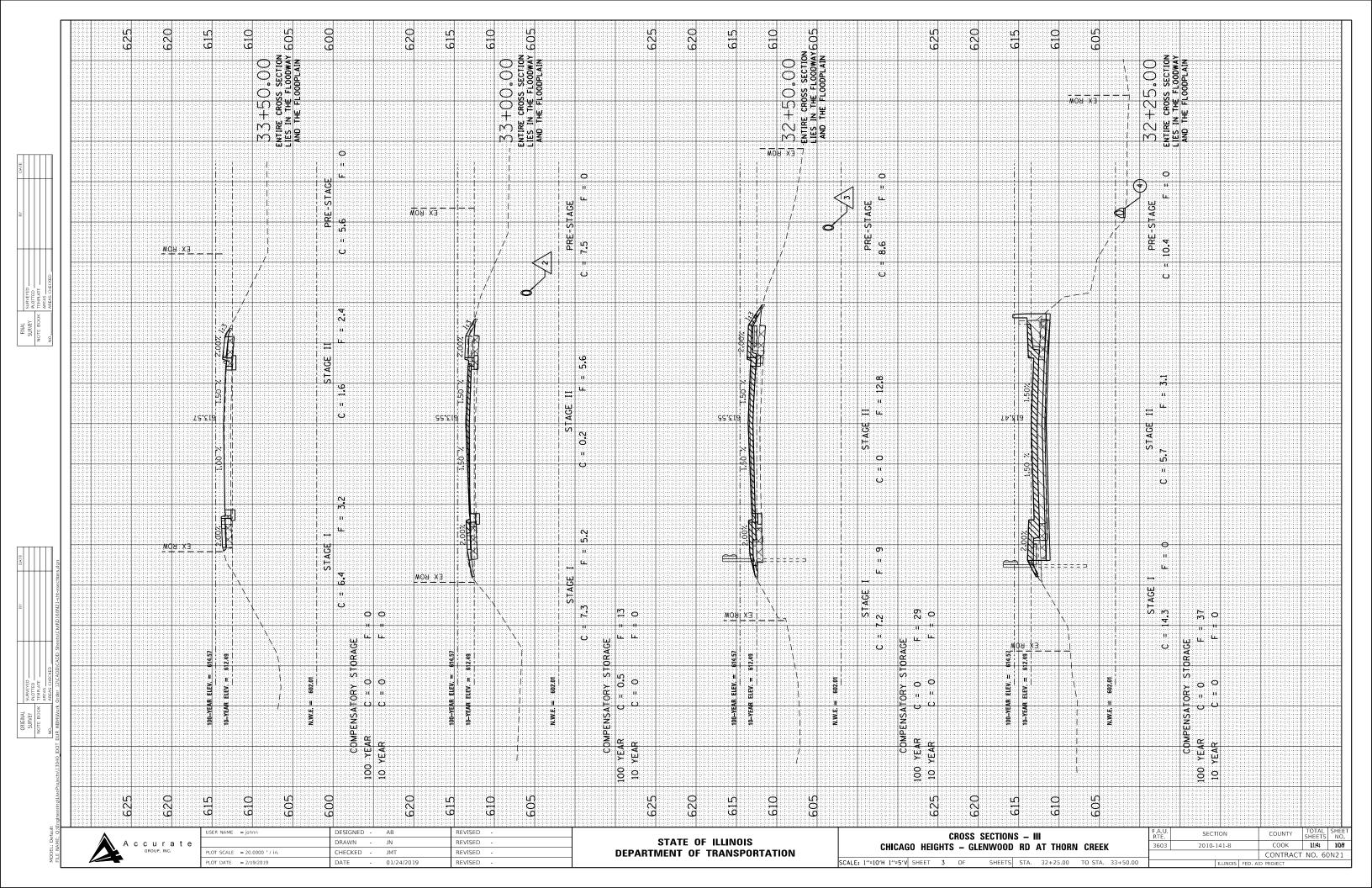
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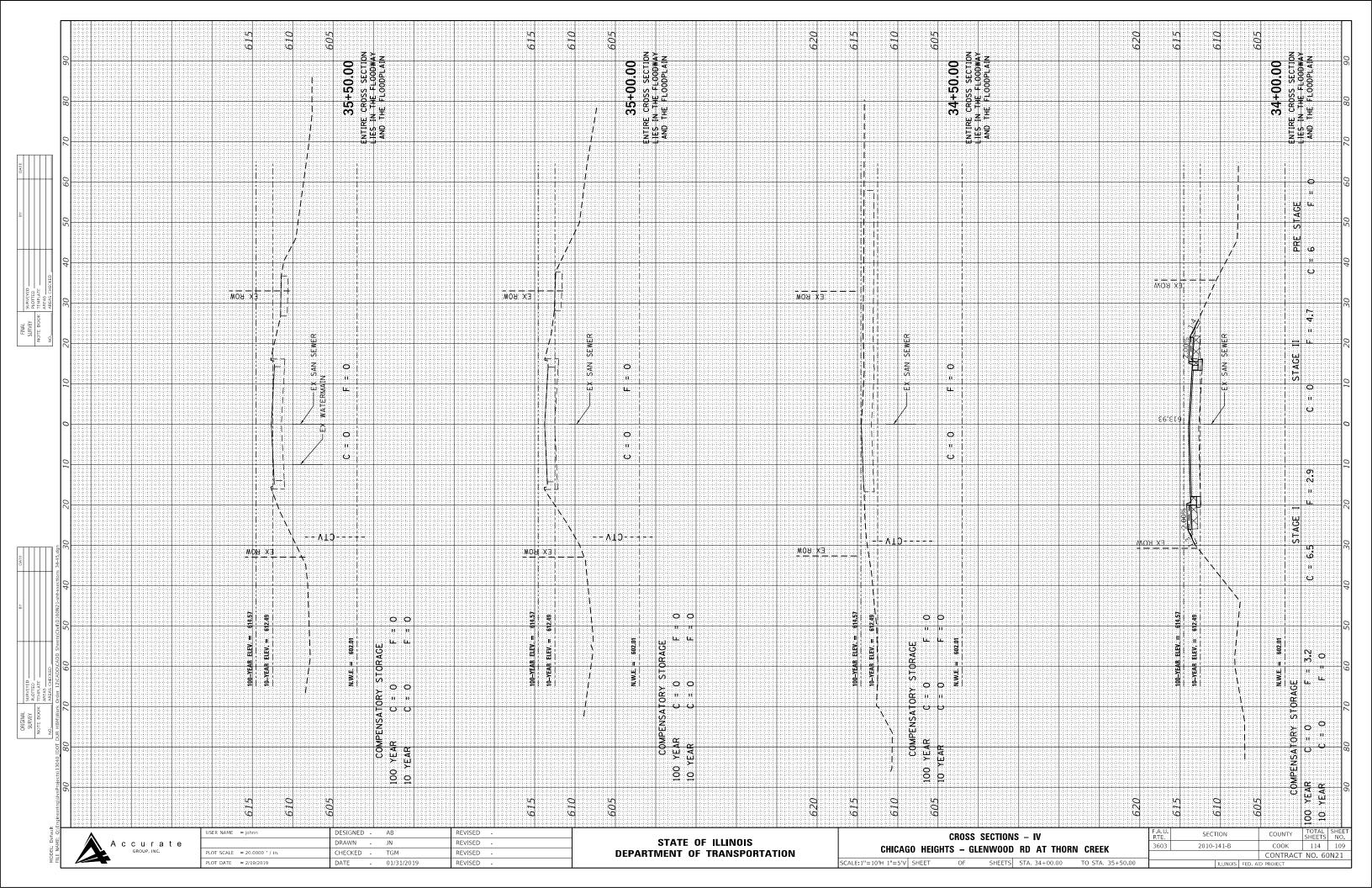
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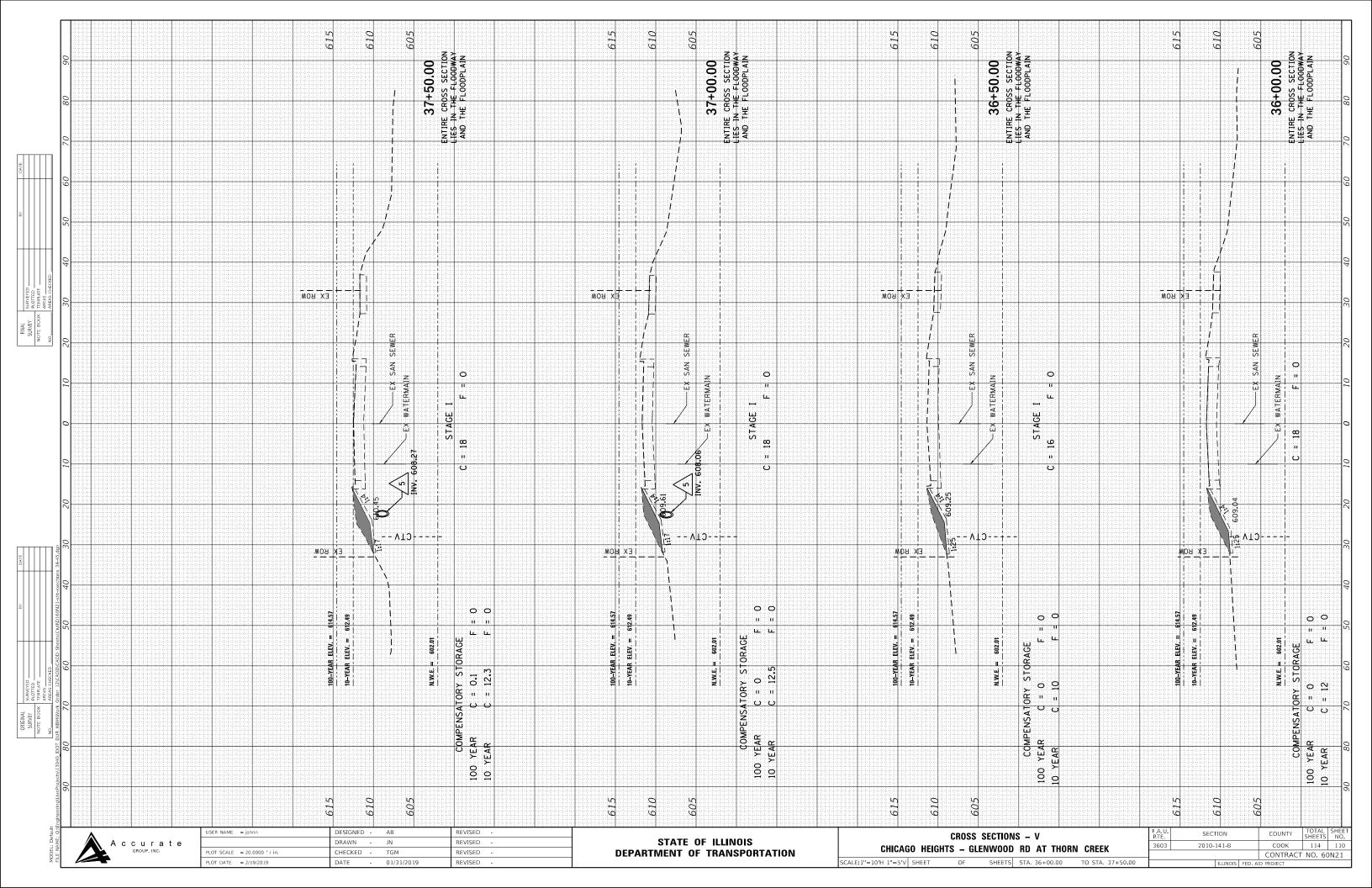


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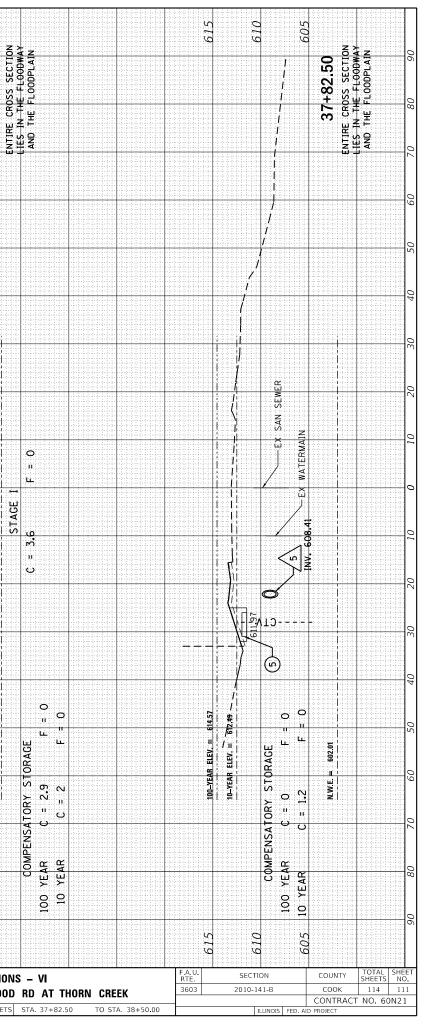


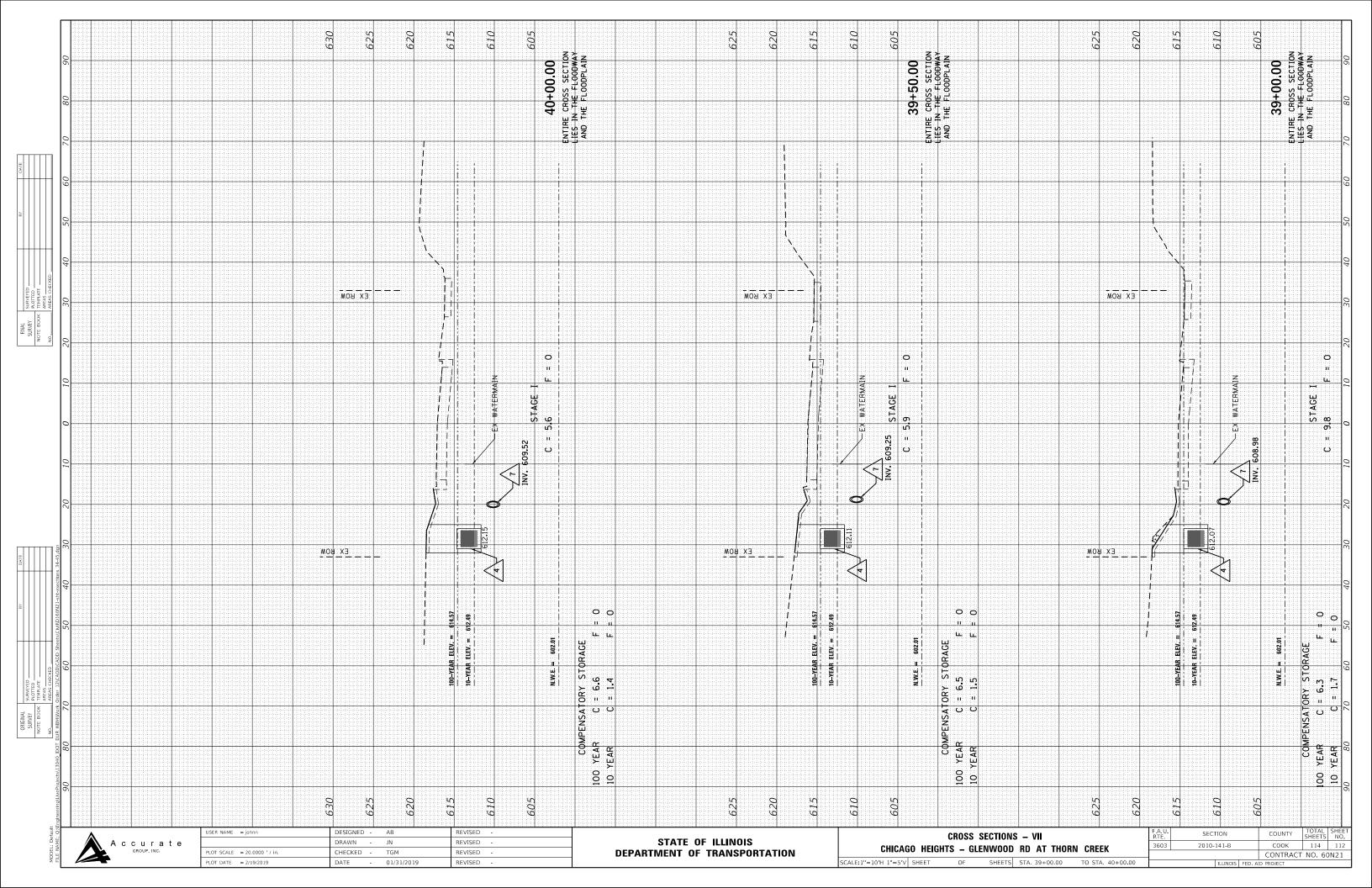


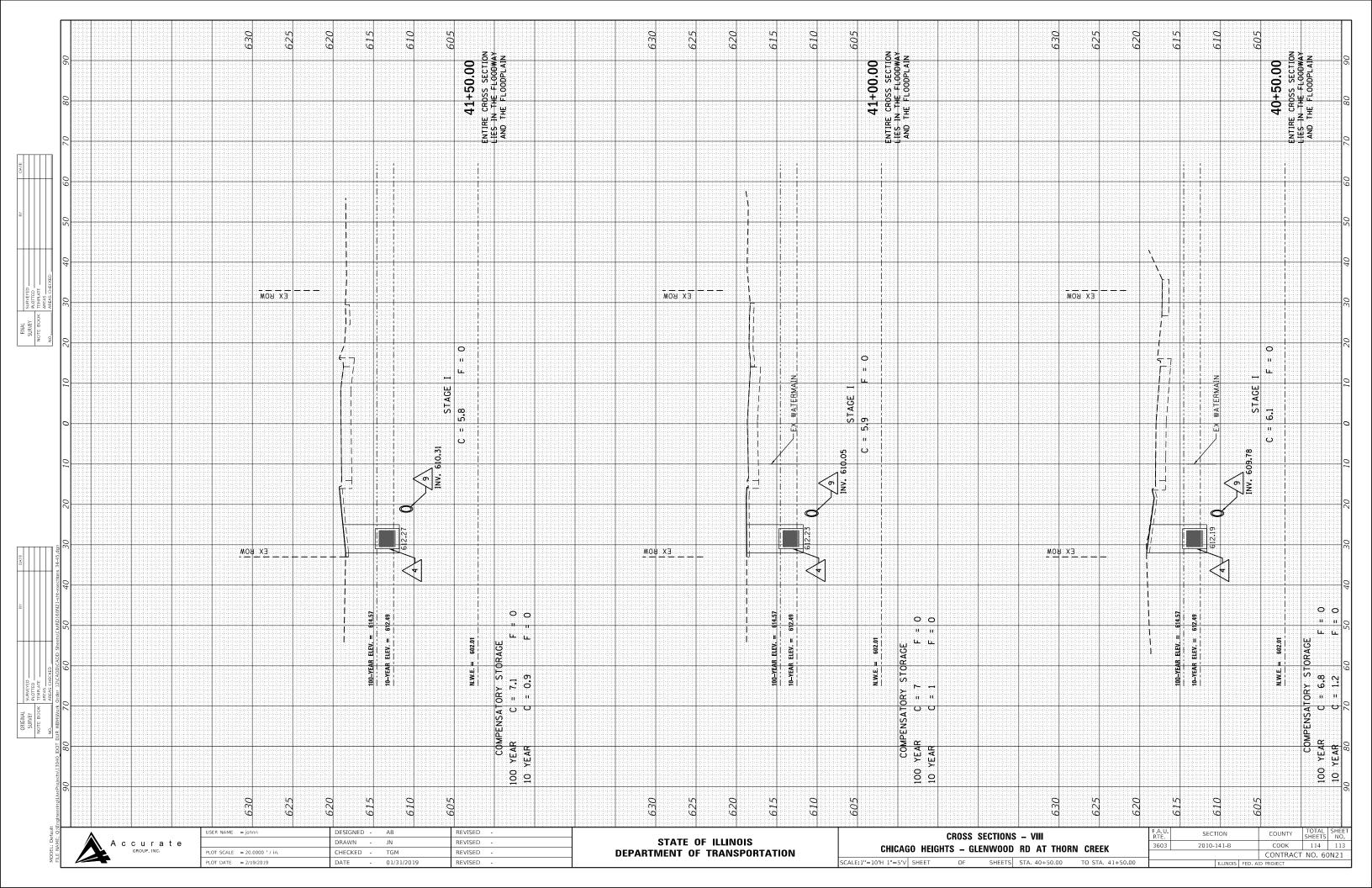


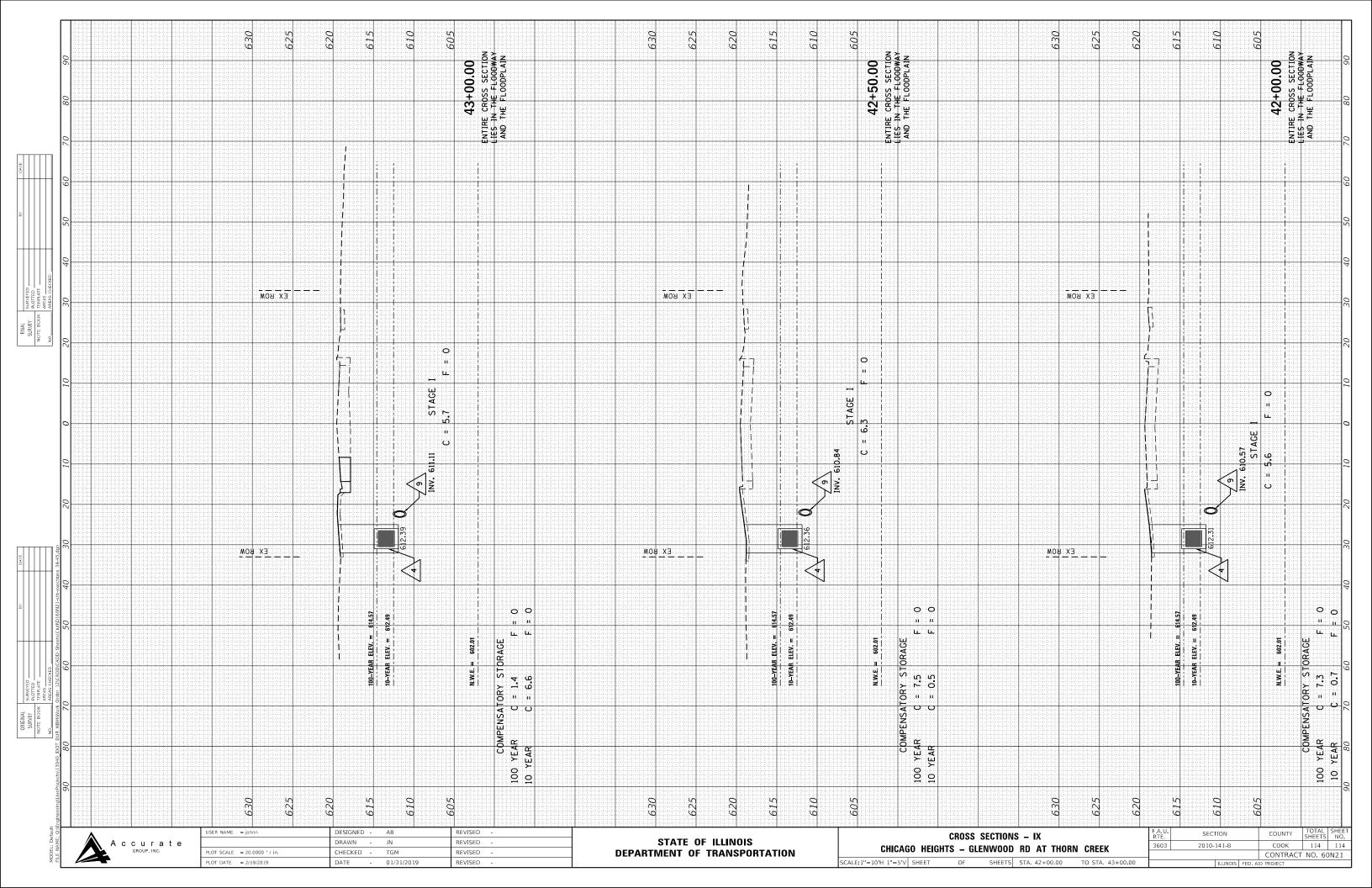


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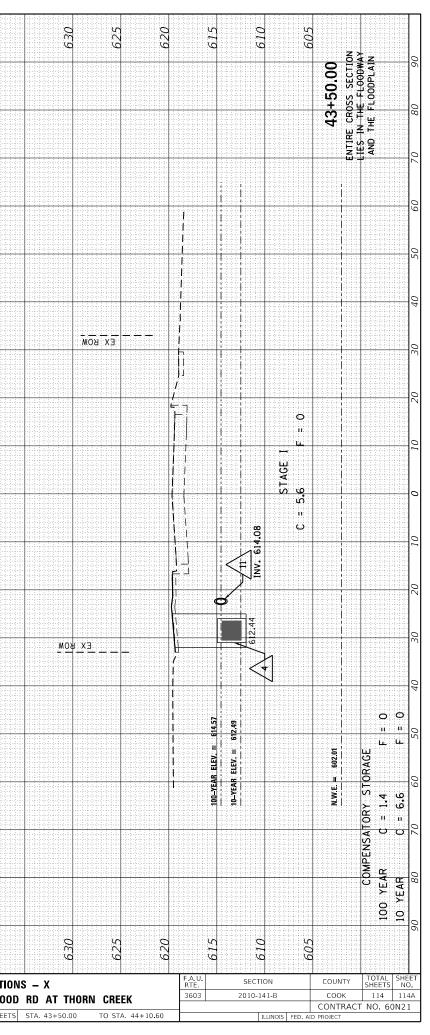








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