06-16-2017 LETTING ITEM 002

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN

THE VILLAGE OF NILES

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU ROUTE 3519: (HARTS ROAD AT NORTH BRANCH CHICAGO RIVER) SECTION 66-B PROJECT NUMBER: STP-3519(002)

BRIDGE SUPERSTRUCTURE REPLACEMENT COOK COUNTY

LOCATION MAP NOT TO SCALE

GROSS AND NET LENGTH = 363.00 FT = 0.07 MILES

IMPROVEMENT LOCATION
HARTS ROAD OVER NORTH
BRANCH CHICAGO RIVER
STRUCTURE NO.: 016-0726

BEGIN PROJECT
STA. 103 + 32

PROJECT ENGINEER: MR. J. ALAIN MIDY, P.E. (847) 221–3056 PROJECT MANAGER: MR. ISSAM RAYYAN, P.E. (847) 705–4178

Accurate GROUP, INC.

WWW.ACCGI.COM

101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-110

ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.0020 3

R13E

D-91-091-14

COOK

ILLINOIS CONTRACT NO. 60X41



DATE SIGNED: 3/6/17 EXP. DATE: 11/30/17



DATE SIGNED: 03/16/17 EXP. DATE: 11/30/18 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED MATCH 2 D 20 17

REGIONAL ENGINEER

ENGINEER OF DESIGN AND ENGINEER

DIRECTOR OF PROGRAM DEVELOPMENT

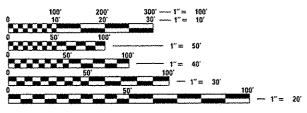
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DESIGN DESIGNATION: MAJOR COLLECTOR

2009 ADT = 4450 2030 ADT = 5000

DESIGN SPEED = 40 MPH

POSTED SPEED = 35 MPH



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 60X41

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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS AND COMMITMENTS
3	GENERAL NOTES
4-11	SUMMARY OF QUANTITIES
12-13	TYPICAL SECTIONS
14-15	SCHEDULES OF QUANTITIES
16	ALIGNMENTS. TIES AND BENCHMARKS
17	EXISTING CONDITIONS AND REMOVAL PLAN
18	PROPOSED PLAN & PROFILE
19	DETOUR PLAN
20	EROSION AND SEDIMENT CONTROL NOTES & TREE PROTECTION SCHEOULE
21	EROSION AND SEDIMENT CONTROL PLAN
22	EROSION AND SEDIMENT CONTROL DETAILS
23	PLAT OF HIGHWAYS
24	DRAINAGE AND UTILITY PLAN
25	SLOPE PROTECTION DETAILS
26	LANDSCAPING AND PAVEMENT MARKING PLAN
27-28	TEMPORARY TRAFFIC SIGNAL INTERCONNECT & REMOVAL PLAN
29-30	TEMPORARY INTERCONNECT SCHEMATIC
31-32	PROPOSED TRAFFIC SIGNAL INTERCONNECT PLAN
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56	BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
57	BE-702 MISC, ELECTRICAL DETAILS SHEET A
58	TC-11 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW - PLOW RESISTANT)
59	TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
60	TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
61	TC-22 ARTERIAL ROAD INFORMATION SIGN
62-64	TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DETAILS (SHEETS 1, 5 & 6 OF 7 ONLY)
65	ARTERIAL ROAD INFORMATION SIGN FOR ROAD TO BE FULLY CLOSED AND DETOURED
66-67	HARTS ROAD CROSS SECTIONS
68-69	n. Branch Chicago River Cross Sections

INDEX OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-03	NAME PLATE FOR BRIDGES
602001-02	CATCH BASIN TYPE A
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604056-04	FRAME AND GRATE TYPE IIV
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
630001-11	STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL. TYPE 2
631031-15	TRAFFIC BARRIER TERMINAL. TYPE 6
701006-05	OFF-RD OPERATIONS, 2L. 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS-DAY ONLY
701801~06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
814001-03	HANDHOLES



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PLOT DATE - 3/16/2017	DATE -	3-17-2017	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

INDE	X OF SHEETS.	HIGHWA	Y STANDARDS	AND	COMMITMENTS	F,A.U. RTE.	SECTION
1,102	. 0. 0.,		ARTS ROAD			3519	66-B
	Levert		CLEFTE CTA		TA STA		17 15

U. SECTION COUNTY TOTAL SHEETS NO. 9 66-B COOK 69 2 CONTRACT NO. 60X41

COMMITMENTS:

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

 NORTH BRANCH TRAIL SHALL REMAIN OPEN AT ALL TIMES TO PEDESTRIAN TRAFFIC DURING CONSTRUCTION

- 2. THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS. REPRESENT DATA RECEIVED FROM VARIOUS SOURCES: IT IS NOT CHARANTEED. TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THE CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 3. ALL WORK SHALL BE COMPLETED WITHIN THE LIMITS OF THE PROJECT SHOWN. NO EQUIPMENT. MATERIAL OR A FIELD OFFICE SHALL BE SET UP OR STORED ON STATE. COUNTY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE STATE, COUNTY OR THE PROPERTY OWNER
- 4. PAVEMENT ELEVATIONS: THE ELEVATION SHOWN ON THE PLANS ARE FINISHED GRADE FOR THE PAVEMENT OR SURFACE COURSE. UNLESS OTHERWISE INDICATED.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS
- 6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 7. THE RESIDENT ENGINEER SHALL CONTACT MR. JOE ECKERT. AREA TRAFFIC FIELD ENGINEER AT (847)705-4141 (EMAIL: JOE.ECKERT@ILLINOIS.GOV), A MINIMUM OF TWO(2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF PLATED STRUCTURES BY STATION AND OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT.
- 10. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING AND AFTER THE CONSTRUCTION OF THE PROPOSED COMBINATION CONCRETE CURB AND GUTTER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE TYPE OF COMBINATION CONCRETE CURB AND GUTTER.
- 11. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE TYPE OF COMBINATION CONCRETE CURB AND GUTTER.
- 12. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF NILES.
- 13. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 14. THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL".
- 15. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINES SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 16. THE COST OF CONNECTING EXISTING STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM AND/OR CONNECTING PROPOSED STORM SEWER TO EXISTING STRUCTURES SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PROPOSED STORM SEWER. ALL NECESSARY ADDITIONAL PIPE USED WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR STORM SEWER OF THE SIZE REQUIRED.
- 17. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. THEY SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME. THEY SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT ROADSIDE DRAINAGE SYSTEM IS BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR DIRECTLY. BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

- 18. DRAINAGE STRUCTURE GRADES SHALL BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS, DRAINAGE STRUCTURES MAY REQUIRE REVISIONS TO MEET EXISTING FIELD CONDITIONS. ANY ADJUSTMENT SHALL BE AS DIRECTED BY THE ENGINEER.
- 19. UNLESS OTHERWISE IDENTIFIED ON THE PLANS, PIPE DRAINS SHALL BE INSTALLED AT A SLOPE OF 0.20%.
- 20. FOR WORK OUTSIDE THE LIMITS OF THE BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT. SHOULDERS, CURB. CUTTER AND COMBINATION CURB AND GUTTER. SHALL BE EPOXY COATED. UNLESS NOTED OTHERWISE ON THE PLANS.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THIS CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
- 22. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- 23. THIS PROJECT REDUIRES AN US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT. THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 24. THE FRAMES AND LIDS OF EXISTING UTILITIES OR DRAINAGE STRUCTURES WITHIN THE LIMITS OF THIS IMPROVEMENT PROJECT THAT ARE NOT NOTED ON THE PLANS FOR REPLACEMENT OR RECONSTRUCTION SHALL BE ADJUSTED TO MATCH THE PROPOSED ROADWAY GRADES. THE FRAMES AND LIDS OF PRIVATE UTILITY STRUCTURES SHALL BE ADJUSTED BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT. HOWEVER, THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY OWNERS TO HAVE ADJUSTMENTS PERFORMED.
- 25. 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.
- 26. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- 27. DE-ENERGIZING COMED'S DISTRIBUTION LINES (12KV) MAY BE NECESSARY IN ORDER TO ACCOMMODATE THE CONTRACTOR'S EQUIPMENT. THE BRIDGE CONTRACTOR SHALL CALL 1-800-EDISONI.
- 28. ACCESS TO THIS SITE IS LIMITED. THE CONTRACTOR SHALL ONLY ACCESS THIS SITE BY RAISING AND/OR LOWERING ALL EQUIPMENT AND MATERIAL OVER THE SIDES OF THE BRIDGE. THE CONTRACTOR WILL NOT BE ALLOWED OTHER ACCESS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE CONSTRUCTION ITEMS INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 29. NORTH BRANCH TRAIL SHALL REMAIN OPEN AT ALL TIMES TO PEDESTRIAN TRAFFIC DURING CONSTRUCTION.
- 30. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR 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. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE PLANS AND IMPLEMENT, MAINTAIN, AND REMOVE ESC BEST-MANAGEMENT PRACTICES 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.

SCALE:

31. EARTHWORK BREAKDOWN IS INCLUDED IN THE SCHEDULE OF QUANTITIES FOR CONTRACTOR INFORMATION ONLY. THE COST OF EARTHWORK IS INCLUDED IN THE PAY ITEM PAVEMENT REMOVAL (SPECIAL).

Accurate

USER NAME = Johnn	DESIGNED -	AS	REVISED -
	DRAWN -	48	REVISED -
PLOT SCALE + 2,8000 1/ 10.	CHECKED -	TCM	REVISED -
PLOT DATE + 3/16/2817	DATE -	3-17-2017	REVISED -

DEPARTMENT OF TRANSPORTATION

80% FEDERAL URBAN 20% STATE
BRIDGE TRAFFIC SIGNALS ROADWAY 0014 016-0726 TOTAL CODE 0004 0021 ITEM UNIT QUANTITY URBAN 20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER) UNIT 100 100 20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER) UNIT 106 106 20101000 TEMPORARY FENCE FOOT 613 613 EACH 8 20101100 TREE TRUNK PROTECTION 8 20300100 CHANNEL EXCAVATION CU YD 318 318 20800150 TRENCH BACKFILL CU YD 25 25 75 21101505 TOPSOIL EXCAVATION AND PLACEMENT CU YD 75 21101805 COMPOST FURNISH AND PLACE, 2" SO YO 662 662 25000210 SEEDING, CLASS 2A ACRE 0.25 0.25 ACRE 0.25 0.25 25000300 SEEDING, CLASS 3 ACRE 0.25 25000310 SEEDING, CLASS 4 0.25 POUND 25000400 NITROGEN FERTILIZER NUTRIENT 7 7 25000500 PHOSPHORUS FERTILIZER NUTRIENT POUND 7 7 POUND 7 7 25000600 POTASSIUM FERTILIZER NUTRIENT

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1	PLOT DATE . 3/29/2017	DATE -	3-17-2017	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEO.	AID PROJECT		

CONSTRUCTION CODE

CODE

NO.

25100630 EROSION CONTROL BLANKET

28000400 PERIMETER EROSION BARRIER

28100105 STONE RIPRAP. CLASS A3

28000510 INLET FILTERS

28200200 FILTER FABRIC

28401000 SLOPE MATTRESS 12"

44000600 SIDEWALK REMOVAL

28400100 GABIONS

28000250 TEMPORARY EROSION CONTROL SEEDING

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

40600290 BITUMINOUS MATERIALS (TACK COAT)

42000070 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

44000500 COMBINATION CURB AND GUTTER REMOVAL

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STATE	: 01	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

URBAN

TOTAL

QUANTITY

662

14

732

116

834

128

463

384

85

340

1740

189

1858

UNIT

SO YD

POUND

FOOT

SO YD

SO YD

CU YD

SQ YD

SO YD

POUND

SQ YD

SQ FT

FOOT

50 FT

ROADWAY 0004 URBAN

662

14

732

7

24

834

128

463

384

85

340

1740

189

1858

92

CONSTRUCTION CODE

80% FEDERAL
20% STATE
BRIDGE TRAFFIC SIGNALS
0014 0021
016-0726 URBAN

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		urean	80% FEDERAL 20% STATE				
			ROADWAY	20% STAT BRIDGE	TRAFFIC SIGNALS		
CODE		TOTAL	0004	0014	0021		
NO. ITEM	UNIT	OUANTITY	URBAN	016-0726	URBAN		
44004250 PAVED SHOULDER REMOVAL	SO YD	24	24		The state of the s		
50101500 REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1	-		
50102400 CONCRETE REMOVAL	CU YD	26. 9		26. 9			
50104400 CONCRETE HEADWALL REMOVAL	EACH	1					
50200100 STRUCTURE EXCAVATION	CU YD	90		90			
50200300 COFFERDAM EXCAVATION	CU YD	85		85 .			
50201121 COFFERDAM (TYPE 2) (LOCATION - 1)	EACH			1			
50201122 COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	des a desta de la		1			
50300225 CONCRETE STRUCTURES	CU YD	48.3		48.3			
50300255 CONCRETE SUPERSTRUCTURE	CU YD	49		49			
50300260 BRIDGE DECK GROOVING	\$0 YD	337		337			
50300300 PROTECTIVE COAT	\$Q YD	554		554			
50301350 CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	125.5		125.5			
50400405 PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	50 FT	1868		1868			

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5	SUMMARY OF QUANTITIES				F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO. 6	
	HARTS ROAD		3519	66-8	COOK	69				
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				ROADWAY	BRIDGE	TRAFFIC SIGNAL		
CODE NO.	ITEM	UNIT	TOTAL [0004 URBAN	0014 016-0726	0021 URBAN		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	60940		60940			
50900105	ALUMINUM RAILING, TYPE L	FOOT	140		140	Management of the second		
	Acoustion (Allia), The E	1 201			1			
51500100	NAME PLATES	EACH	1		1			
550A0360	STORM SEWERS. CLASS A. TYPE 2 15"	FOOT	93	93				
55100500	STORM SEWER REMOVAL 12"	FOOT	50	50				
55100700	STORM SEWER REMOVAL 15"	FOOT	26	26				
58700300	CONCRETE SEALER	SQ FT	25		25			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	50		50			
60201110	CATCH BASINS, TYPE A. 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	4	4				
60255500	MANHOLES TO BE ADJUSTED	EACH	14	I				
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1				
60500050	REMOVING CATCH BASINS	EACH	4	4				
						5		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE 8-6.12	FOOT	81	81				
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	46	46				

* SPECIALTY ITEM

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	SUMMAR	Y OF QUA	ANTITIES		RT
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					CONSTRUCTION CODE 80% FEDERAL			
			urban	ROADWAY	20% STAT I BRIDGE	IE TRAFFIC SIGNAL		
CODE			TOTAL	0004	0014 016-0726	0021		
NO.	I TEM	UNII	QUANTITY	URBAN	016-0726	URBAN		
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	87.5	87. 5				
63100045	TRAFFIC BARRIER TERMINAL. TYPE 2	EACH	2	2	FF de			
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		100000000000000000000000000000000000000		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		and the same of th		
63200310	GUARDRAIL REMOVAL	FOOT	458	458		The state of the s		
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	250				
			4.70	230				
66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM		. 1	editarian esta de la companio del companio de la companio del companio de la companio del companio de la companio de la companio del companio de la companio del companio de la companio de la companio de la companio del companio de la companio de la companio de la companio de la companio del companio del companio del companio de la companio del compa			
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	the party of the state of the s			
67000400	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	LSUM	1	1	dd my			
X70]\$00\$	CHANGEABLE MESSAGE SIGN	CAL PA	28	28				
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2				
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	831	831				
18100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2				

* SPECIALTY ITEM

USER NAME = jent	DESIGNED	~	pp	REVISED -
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PLOT SEALE . 2,0000 '/ in.	CHECKED	-	JMT	REVISED -
PLOT DATE ¢ 3/29/2017	DATE		3-17-2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

F.A.U. RYE. 3519 SUMMARY OF QUANTITIES SECTION 66-B HARTS ROAD SHEET OF SHEETS STA. TO STA.

 ECTION
 COUNTY
 TOTAL SHEET NO.

 66-B
 COOK
 69
 8

 CONTRACT NO.
 60X41

 | RLINOIS|FEO.
 AID PROJECT

			*****	CONSTRUCTION CODE 80% FEDERAL				
_ -			yrban		20% STA	ΓE		
CODE NO.	ITEM	UNIT	TOTAL	ROADWAY 0004 URBAN	BRIDGE 0014 016-0726	TRAFFIC SIGNAL 0021 URBAN		
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and the second s			
78200006	GUARDRAIL REFLECTORS. TYPE B	EACH	8	8				
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL. 2" DIA.	FOOT	119			119		
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	76		76			
81400100	HANDHOLE	EACH	1					
81400200	HEAVY-DUTY HANDHOLE	EACH	1			The state of the s		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 10	FOOT	2172			2172		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2172			2172		
89502380	REMOVE EXISTING HANDHOLE	EACH	2			2		
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	2162			2162		
X0325748	3 ACRYLIC COATING	SQ YD	277		277			
X0325749	FIBER WRAP	SO FT	2488		2488			
X0325938	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	LSUM	enancy and an area and a					

* SPECIALTY ITEM

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		(SP	iour	, \$N	Ç.			

	USER NAME = jant	DESIGNED -	PP	REVISED -
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į	PLOT SCALE + 2.0080 1/ In.	CHECKED -	JMŤ	REVISED -
	PLOT DATE • 3/29/2017	DATE -	3-17-2017	REVISED -

STAT	E O	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

 	SUMMAR	Y OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
HARTS ROAD					66-8	COOK	69	9
,——		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				CONTRACT	NO. (50X41
SHEET	QF	SHEETS STA.	TO STA.		ILLINOIS FEO.	AID PROJECT		***************************************

					CONSTRUCTION 80% FEDER	RAL
		1	urban	ROADWAY	20% STAT BRIDGE	TE TRAFFIC SIGNAL
CODE			TOTAL T	0004	0014	0021
NO.	ITEM	UNIT	QUANTITY	URBAN	016-0726	URBAN
0327638	STREAM GAUGE	EACH	1		1	
2020502	BRACED EXCAVATION	CU YD	8		8	
4404400	PAVEMENT REMOVAL (SPECIAL)	SO YD	416	416	September 1	
	A A CHIERT A CHIEF A C	30 10	410	410		
5030305	CONCRETE WEARING SURFACE, 5"	SO YD	208		208	
5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YO	90		90	
7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1		
8430100	REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	43			43
8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125. MM12F SM24F	FOOT	2195			2195
8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	152		de care de car	152
8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	2195		mandata de la companya de la company	2195
0001900	ASBESTOS BEARING PAD REMOVAL	EACH	28		28	
0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	579		579	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SO FT	30		30	
0013798	CONSTRUCTION LAYOUT	LSUM	University of the state of the	1	1400	

Accurate	USER NAME * jent
GROUP, INC.	PLOT SCALE - 2.0000 1/ in.
	PLOT DATE + 3/29/2017

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	DRAWN	-	PP	REVISED	*
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STATI	E OI	FILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

	;	SUMMAR	Y OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
		H	ARTS ROAD	3519	66-B	COOK	69	10	
							CONTRAC	T NO.	60X41
SCALE	SHEET	OF :	SHEETS STA.	TO STA.		ILLINOIS FED			***************************************

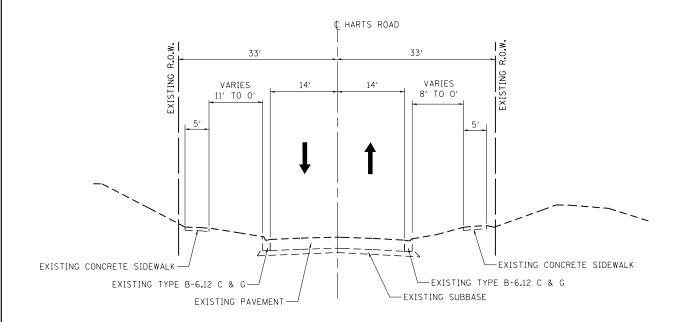
				***************************************	CONSTRUCTION 80% FEDER	N CODE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			URBaN		20% STA	ΤΕ
CODE NO.	ITEM	UNIT	TOTAL	ROADWAY 0004 URBAN	BRIDGE 0014 016-0726	TRAFFIC SIGNALS 0021 URBAN
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4		
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	2			2
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	152		152	
20051500	REMOVING AND RESETTING STREET SIGNS	EACH	2	2		
20073700	TEMPORARY WALL BRACING SYSTEM	LSUM	The state of the s		and the state of t	
Z0076600	TRAINEES	-HOUR-			THE PROPERTY OF THE PROPERTY O	

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* SPECIALTY ITEM

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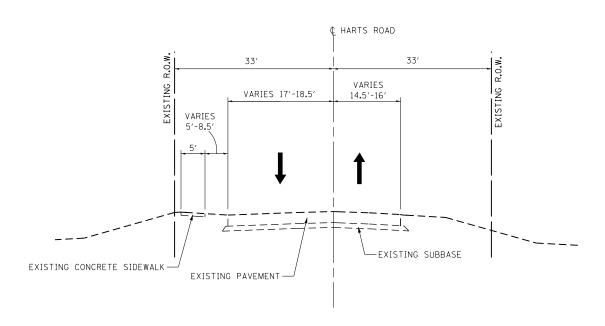
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	PLOT SCALE > 2.0000 '/ in.	CHECKED	-	JMT	REVISED -
	PLOT DATE = 3/29/2017	DATE	_	3-17-2017	REVISED -



#### **EXISTING TYPICAL SECTION**

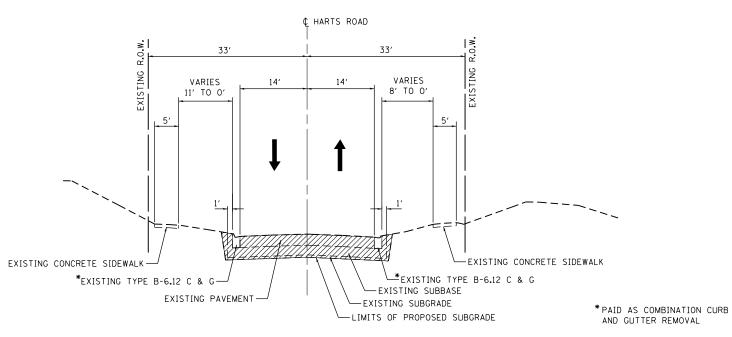
STA. 103+32 TO STA. 105+85

APPROACH SLABS AND BRIDGE OMISSION: STA. 104+62.86 TO STA. 105+50.06



#### **EXISTING TYPICAL SECTION**

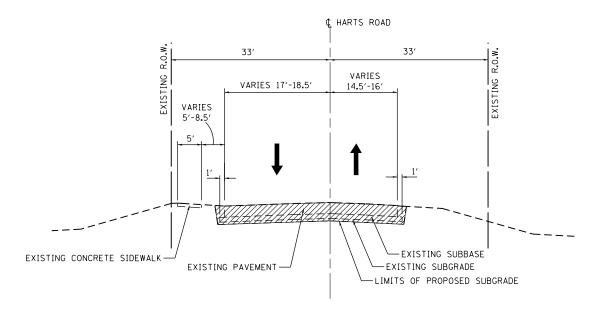
STA. 105+85 TO STA. 106+95



#### PAVEMENT REMOVAL (SPECIAL) TYPICAL SECTION

STA. 104+42.53 TO STA. 105+85

APPROACH SLABS AND BRIDGE OMISSION: STA. 104+62.86 TO STA. 105+50.06



#### PAVEMENT REMOVAL (SPECIAL) TYPICAL SECTION

STA. 105+85 TO STA. 106+50

AREA TO BE REMOVED AND PAID AS PAVEMENT REMOVAL (SPECIAL)

SHEET

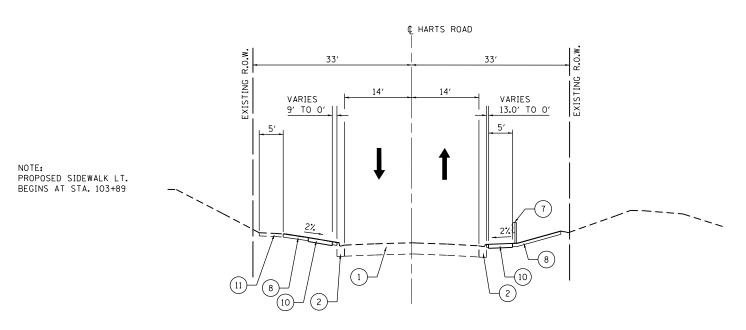
SCALE:



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PLOT DATE = 3/16/2017	DATE -	3-17-2017	REVISED -

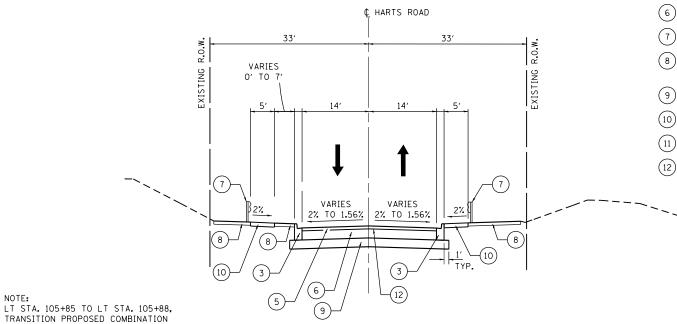
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING	TYPICAL	SECTION	IS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
н/	ARTS ROA	n		3519	66-B	COOK	69	12
117						CONTRAC	NO. 6	0X41
ΩF	SHEETS	STA	TO STA		THE THOSE FED. AT	D DDO IECT		



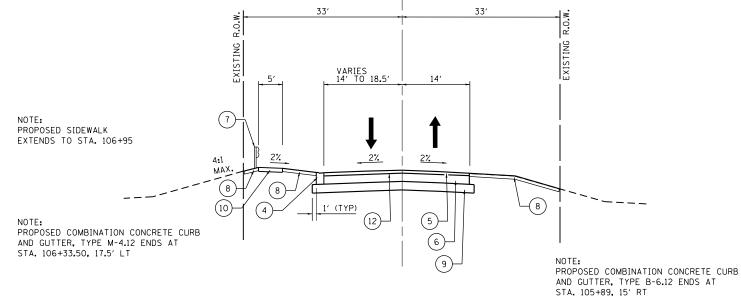
#### PROPOSED TYPICAL SECTION

STA. 103+32 TO STA. 104+42.53



PROPOSED TYPICAL SECTION
STA. 104+42.53 TO STA. 105+88

APPROACH SLABS AND BRIDGE OMISSION: STA. 104+52.53 TO STA. 105+60.40



#### PROPOSED TYPICAL SECTION

STA. 105+88 TO STA. 106+50

C HARTS ROAD

#### **LEGEND**

- EXISTING PAVEMENT
- 2) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 3) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- 6) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 6.25"
- 7) PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ) TOPSOIL EXCAVATION AND PLACEMENT WITH SEEDING, CLASS 2A OR CLASSES 3 AND 4; ALL WITH EROSION CONTROL BLANKET
- PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (10) PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (11) EXISTING PCC SIDEWALK TO REMAIN
  - PROPOSED BITUMINOUS MATERIALS (TACK COAT)

#### HMA MIXTURE REQUIREMENTS CHART

OPERATION	OPERATION MIXTURE TYPE					
PAVEMENT CONNECTOR (HMA)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 GYR.	QC/QA			
FOR BRIDGE APPROACH SLAB	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6.25"	4% @ 70 GYR.	QC/QA			
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)						

- NOTES: 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
  - 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
  - 3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

SHEET

SCALE:

4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE



TYPE M-4.12

CONCRETE CURB AND GUTTER, TYPE B-6.12 TO COMBINATION CONCRETE CURB AND GUTTER,

USER NAME = Johnn	DESIGNED - JMT	REVISED -
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STATE OF ILLINOIS					
DEPARTMENT	0F	TRANSPORTATION			

PROPOSED	TYPICAL SECTIONS	3	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ш	ARTS ROAD		3519	66-B	COOK	69	13
117	מאטווט ווטאט				CONTRACT	NO. 6	50X41
OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

AGGREGATE SUBGRADE IMPRO	VEMENT 12"
LOCATION STATION TO STATION	AREA (SQ YD)
104+42.53 TO 104+52.53	37
105+60.40 TO 106+50.00	347
TOTAL	384

STEEL PLATE BE	AM GUARD	RAIL, TY	PE A, 6 FT F	POSTS
LOCATION STATION TO STATION	OFFSET	LENGTH (FT)	GUARDRAIL REFLECTORS, TYPE B (EACH)	TERMINAL MARKER DIRECT APPLIED (EACH)
103+99.40 TO 104+24.40	RT	25		1
105+88.70 TO 106+01.20	RT	12.5		
105+88.70 TO 106+38.70	LT	50		1
104+03, 104+56, 105+09 105+62	RT		4	
104+63, 105+17, 105+71 106+25	LT		4	
·				
TOTAL		87.5	8	2

	LANDSCAPING SCHEDULE							
LOCATION STATION TO STATION	OFFSET (LT / RT)	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)	SEEDING CLASS 2A (ACRE)	SEEDING CLASS 3 (ACRE)	SEEDING CLASS 4 (ACRE)	COMPOST FURNISH AND PLACE, 2" (SQ YD)		
103+31.00 TO 103+48.15	RT	1.6	0.003			14		
103+31.00 TO 104+42.50	RT	15.3	0.028			137		
103+96.50 TO 104+05.80	LT	0.7	0.001			6		
104+03.75 TO 104+52.52	LT	4.6	0.008			41		
104+42.53 TO 104+81.50	RT	4.7		0.009	0.009	42		
104+52.52 TO 104+83.14	LT	3. 2		0.006	0.006	29		
105+30.90 TO 106+95.00	LT	7. 7		0.014	0.014	70		
105+33.36 TO 106+60.00	RT	18.2		0.034	0.034	164		
105+60.40 TO 106+96.00	LT	12.1	0.023			109		
106+13.00 TO 107+05.00	RT	5.5	0.010			49		
ROUNDED TOTAL		75	0.25	0.25	0.25	357		

	CURB AND GUTTER							
LOCATION STATION TO STATION	OFFSET	COMBINATION CURB AND GUTTER REMOVAL (FOOT)		COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12 (FOOT)				
104+42.53 TO 104+52.53			1.0					
	LT		10					
104+42.53 TO 104+52.53	RT		10					
104+42.53 TO 104+81.58	RT	40						
104+42.53 TO 104+81.52	LT	40						
105+30.89 TO 105+84.94	LT	55						
105+30.99 TO 105+84.86	RT	54						
105+60.40 TO 105+93.00	RT		33					
105+60.40 TO 105+88.00	LT		28					
105+88.00 TO 106+33.50	LT			46				
TOTAL		189	81	46				

TEMPORARY FENCE					
LOCATION	OFFSET	LENGTH (FT)			
NORTHWEST QUADRANT	LT	80			
NORTHEAST QUADRANT	LT	212			
SOUTHWEST QUADRANT	RT	140			
SOUTHEAST QUADRANT	RT	181			
TOTAL	613				

	SI	DEWALK SCHEDULE		
LOCATION STATION TO STATION	OFFSET	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SQ FT)	SIDEWALK REMOVAL (SQ FT)	PAVED SHOULDER REMOVAL (SQ YD)
103+32.00 TO 104+52.53	RT	630		
103+32.30 TO 104+82.83	RT		760	
103+97.50 TO 104+52.53	LT	290		
104+00	LT		33	
104+38.23 TO 104+82.83	LT		240	
105+30.64 TO 105+84.86	RT			24
105+31.23 TO 106+95.00	LT		825	
105+60.40 TO 105+88.00	RT	140		
105+60.40 TO 106+95.00	LT	680		
TOTAL		1740	1858	24

PAVEMENT MARKING							
LOCATION STATION TO STATION	TYPE	POLYUREA PAVEMENT MARKING TYPE I-LINE 4'' (FOOT)	RAISED REFLECTIVE PAVEMENT MARKER (EACH)	RAISED REFLECTIVI PAVEMENT MARKER (BRIDGE) (EACH)			
104+42.53 TO 106+50.00	DOUBLE YELLOW CL	415	2	2			
104+42.53 TO 106+50.00 WHITE EDGE LINE		416	2	2			
TOTAL		831	2	2			

STONE RIPRAP-ROADWAY					
LOCATION STATION TO STATION	STONE RIPRAP, CLASS A3 (TONS)				
299+44 TO 299+50 RT	3				
299+50 TO 299+56 RT	3				
300+04 TO 300+25 LT	6				
300+25 TO 300+54 LT	12				
TOTAL	24				

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PLOT DATE = 3/16/2017	DATE	-	3-17-2017	REVISED -	
					_

SCHEDULES OF QUANTITIES HARTS ROAD			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			3519	66-B	соок	69	14		
						CONTRACT	NO. 6	50X41	
SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE								
STATION	LENGTH (FT)	CUT (SQ FT)	AVG END AREA (SQ FT)	TOTAL (CU YD)	FILL (SQ FT)	AVG END AREA (SQ FT)	TOTAL (CU YD)	
EDOM DECIM	INTING OF 1	LADDOVENE	IT TO WES	T A DUITMEN	T.			
FROM BEGIN	INING OF I	MPROVEMEN	I IO WES	I ABUIMEN		1		
103+32.00	8.27	0	1 05	0.0	0			
	8.21		1.85	0.6		0	0	
103+40.27		3. 7			0			
	59.73		4.85	10.7		1.9	4.2	
104+00.00		6			3.8			
	42.4		6	9.4		3.8	6	
104+42.40		6			3.8			
	0.13		13.5	0.1		3.45	0	
104+42.53		21			3. 1			
	7.47		21	5.8		3. 1	0.9	
104+50.00		21			3. 1			
	31.36		10.5	12.2		3. 1	3.6	
104+81.36		0			3. 1			
TOTAL				39			15	

NOTE: COST INCLUDED IN CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL (SPECIAL)

	EARTHWORK SCHEDULE							
STATION	LENGTH (FT)	CUT (SQ FT)	AVG END AREA (SQ FT)	TOTAL (CU YD)	FILL (SQ FT)	AVG END AREA (SQ FT)	TOTAL (CU YD)	
FROM EAST	ABUTMENT	TO END OF	IMPROVE	MENT:				
105+31.57		0			14.9			
	18.43		8.95	6.1		14.9	10.2	
105+50.00		17.9			14.9			
	10.4		17.9	6.9		14.9	5.7	
105+60.40		17.9			14.9			
	39.6		27.55	40.4		12.15	17.8	
106+00.00		37.2			9.4			
	50		36.25	67.1		7.65	14.2	
106+50.00		35.3			5.9			
	0.1		18.15	0.1		2.95	0	
106+50.10		1			0			
	44.9		0.5	0.8		0	0	
106+95.00		0			0			
TOTAL				121			48	

NOTE: COST INCLUDED IN CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL (SPECIAL)

EARTHWORK SUMMARY						
STATION TO STATION (CH. VD) ADJUSTED F		EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE(-)		
103+32 TO 104+81.4	39	33	15	18		
105+31.6 TO 106+95	121	103	48	55		
TOTAL	160	136	63	73		

NOTE: COST INCLUDED IN CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL (SPECIAL)

PAVEMENT REMOVAL (SPECIAL)				
LOCATION STATION TO STATION	PAVEMENT REMOVAL (SQ YD)			
104+42.53 TO 104+63.42	71			
105+51.30 TO 106+50.00	345			
TOTAL	416			

CHANNEL EXCAVATION					
LOCATION	CHANNEL EXCAVATION (CU YD)				
UPSTREAM-SLOPE MATTRESS AND GABIONS (SUPPORT & END)	144				
UNDER BRIDGE-SLOPE MATTRESS AND END GABIONS	162				
DOWNSTREAM-SLOPE MATTRESS AND GABIONS (SUPPORT & END)	12				
TOTAL	318				

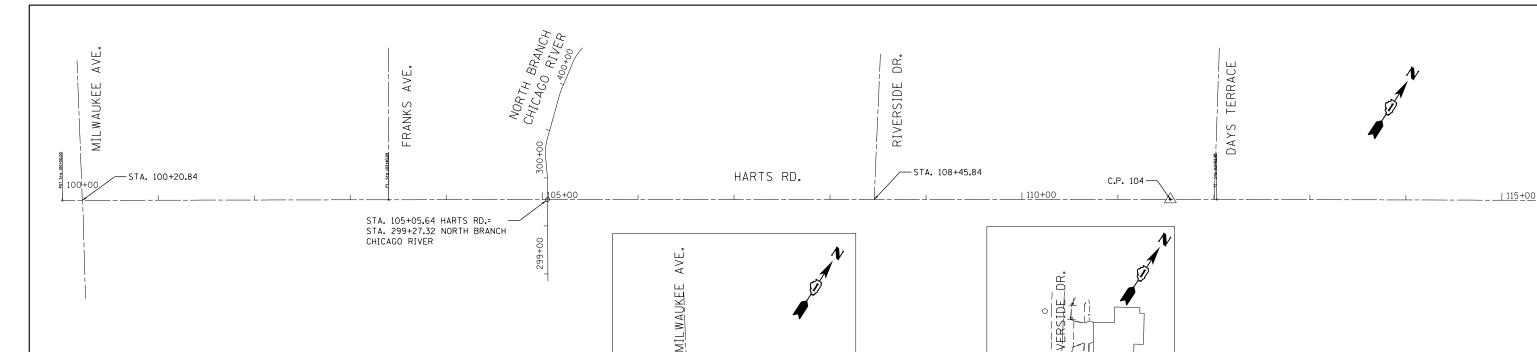
FILTER FABRIC	
LOCATION	FILTER FABRIC (SQ YD)
UNDER BRIDGE	373
SOUTHWEST QUADRANT	52
SOUTHEAST QUADRANT	13
NORTHWEST QUADRANT	228
NORTHEAST QUADRANT	168
TOTAL	834

SLOPE MATTRESS AND GABIONS						
SLOPE MATTRESS, 12" (SQ YD)	GABIONS (CU YD)					
259	30					
15	13					
9						
115	44					
65	41					
463	128					
	SLOPE MATTRESS, 12" (SO YD) 259 15 9 115 65					

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USER NAME = Johnn	DESIGNED	-	SAT	REVISED -
	DRAWN	-	SAT	REVISED -
PLOT SCALE = 2.0000 '/ in.	CHECKED	-	TGM	REVISED -
PLOT DATE = 3/16/2017	DATE	-	3-17-2017	REVISED -

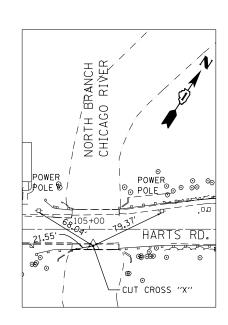
	S	CHEDULI	S OF QU	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		H/	ARTS ROA	3519	66-B	СООК	69	15		
HANTS NOAD								CONTRAC	T NO. 6	60X41
SCALE:	SHEET	0F	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



FIRE HYDRANT CORNER OF POWER POLE

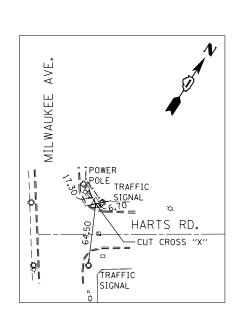
#### **CONTROL POINT #101**

STA. 108+72.13, LT. N 1946705.20 E 1130361.07 ELEV. 611.48



#### **CONTROL POINT #102**

STA. 105+04.82, RT. N 1946465.46 E 1130077.89 ELEV. 616.03



TRAFFIC SIGNAL

TRAFFIC

CENTERLINE TIE

P.K. NAIL STA. 100+20.84

SIGNAL ⊢P.K. NAII MILWAUKEE AVE. & HARTS RD.

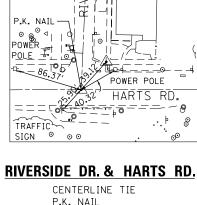
HARTS RD.

TRAFFIC

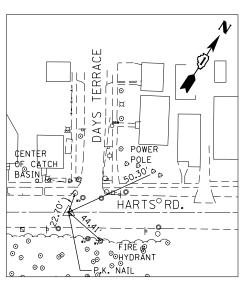
SIGNAL

#### **CONTROL POINT #103**

STA. 100+60.03, LT. N 1946264.16 E 1129679.10 ELEV. 624.27



P.K. NAIL STA. 108+45.84



#### **CONTROL POINT #104**

CENTERLINE TIE STA. 111+54.62 N 1946845.77 E 1130632.71 ELEV. 615.18

SCALE:

#### **BENCHMARK**

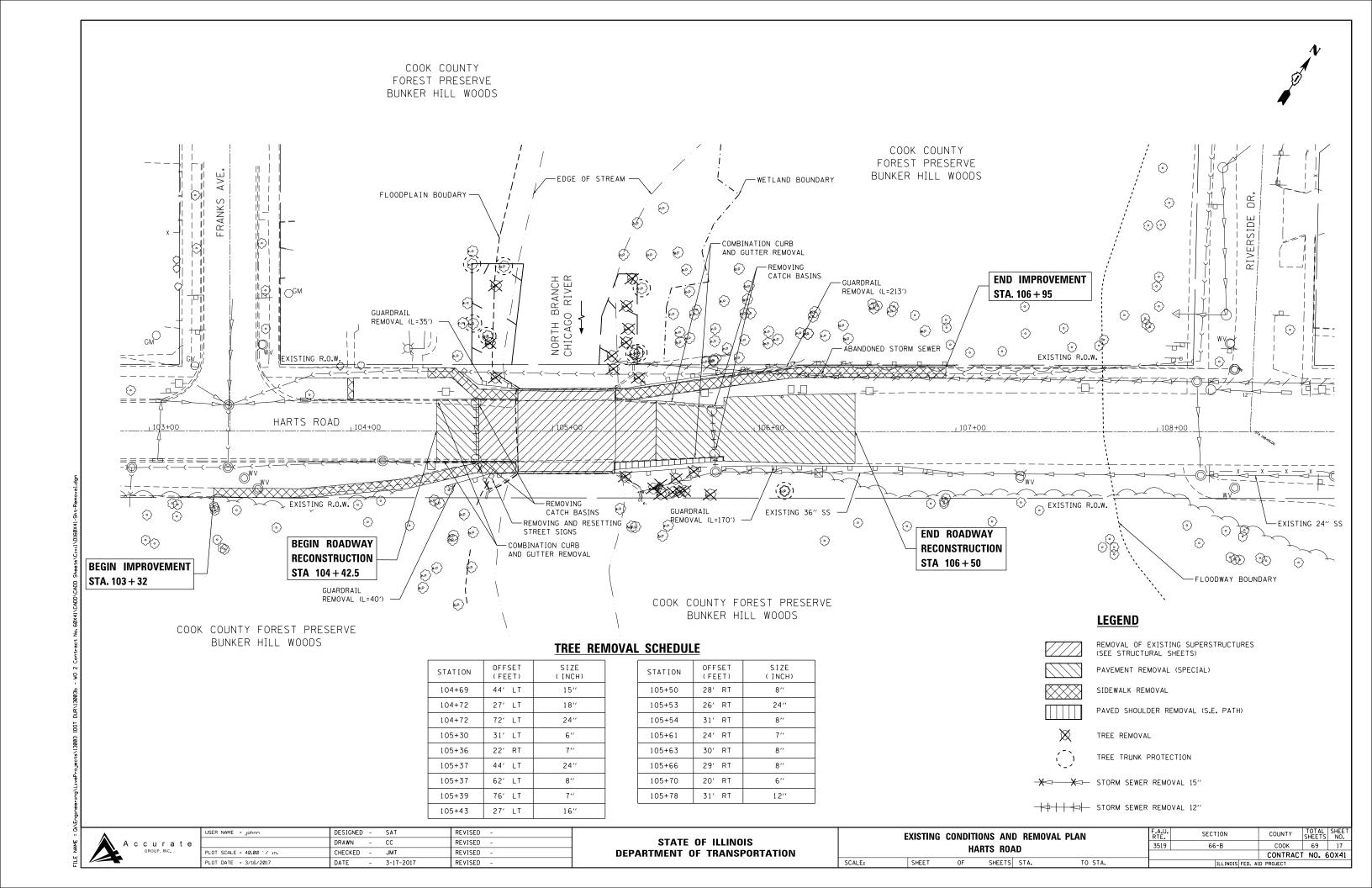
CHISELED SOUARE ON NORTHWEST WINGWALL OF HARTS RD BRIDGE OVER N. BRANCH CHICAGO RIVER. STA. 104+81.42, OFFSET 23' LEFT, ELEV. = 616.25.

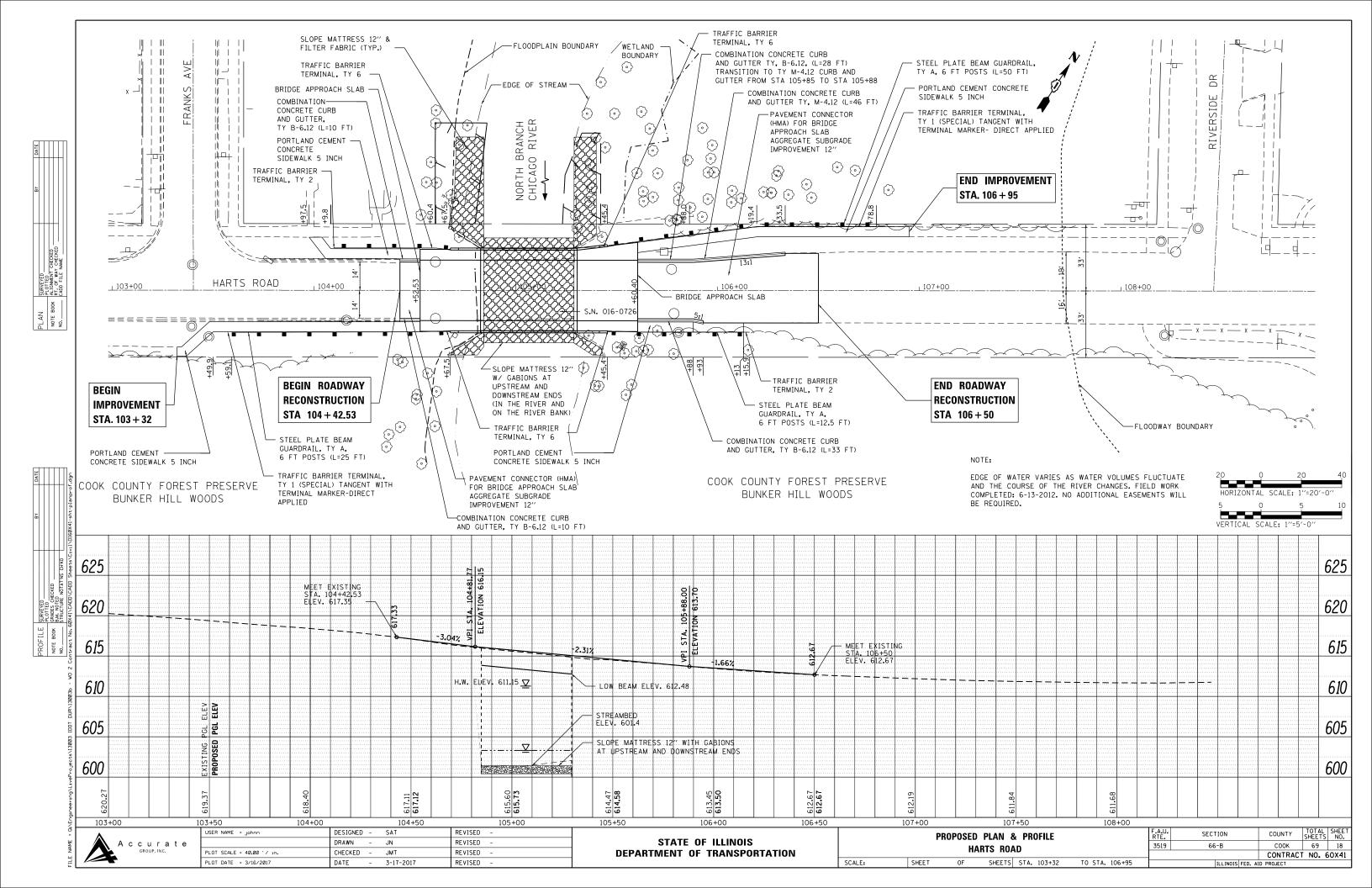


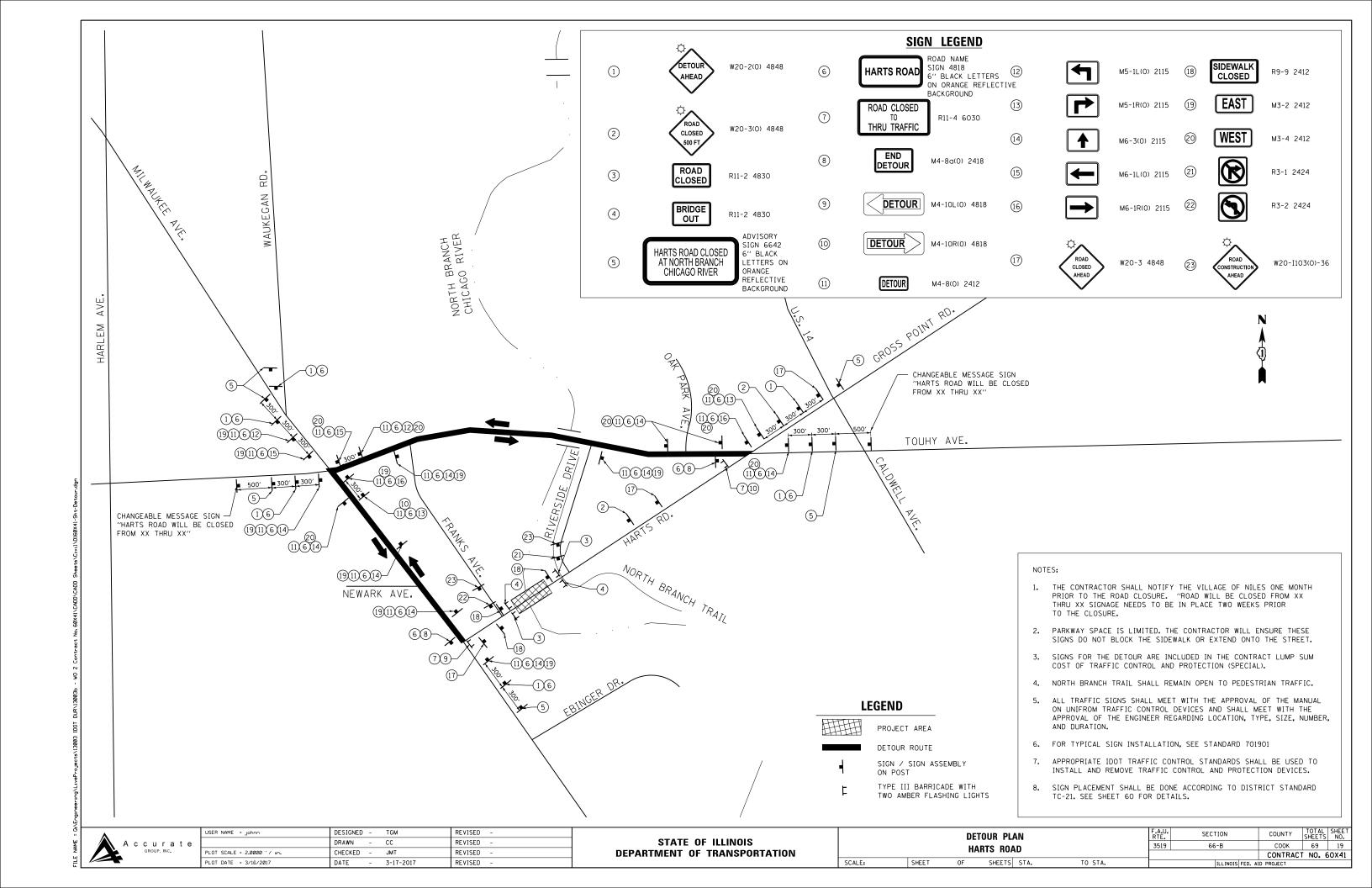
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

ALIGNN	IENTS, T	IES AND	BENCHM	ARKS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	н/	ARTS ROA	n.		3519	66-B	соок	69	16
	11/	1113 1107	\D				CONTRAC	T NO. 6	50X41
SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				







- 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. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE NORTH COOK SOIL & WATER CONSERVATION DISTRICT (N.C.S.W.C.D.) AND CORPS OF ENGINFERS.
- 5. THE CONTRACTOR WILL ASSUME RESPONIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL 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.
- 6. THE US ARMY CORPS OF ENGINEERS MUST BE NOTIFIED 10 DAYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- 7. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
- 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.
  - B. STRUCTURAL CONTROL MEASURES (SUCH AS PERIMETER EROSION BARRIER, ETC.)
  - C. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE PROJECT SITE.
  - . AN ADDITIONAL INSPECTION OF THE ITEMS LISTED ABOVE MUST BE MADE WITHIN 24-HOURS AFTER A 24-HOUR 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.
- 3. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
- 10. WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
- 11. IF DEWATERING ACTIVITIES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AND EFFECTIVE SEDIMENT CONTROL MEASURE AND FILTERED (E.G. SEDIMENT BASIN WITH BAFFLE SYSTEM OR OTHER APPROPRIATE MEASURES).
- 12. WHERE STREAM DISTURBANCE IS NECESSARY, THE STREAM, INCLUDING BED AND BANKS, SHALL BE RESTABILIZED WITHIN FORTY-EIGHT (48) HOURS AFTER DISTURBANCE IS COMPLETED OR INTERRUPTED.
- 13. PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
- 14. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA, WETLAND AREAS OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF COOK COUNTY.
- LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF GUTTERS OR DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.

- 16. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- 17. SEE DRAINAGE PLANS FOR LOCATIONS OF EXISTING UTILITES, PROPOSED STORM SEWER AND PROPOSED DRAINAGE STRUCTURES.
- 18. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE. ALL AREAS OF BARE GROUND WILL BE TEMPORARILY SEEDED EVERY 7 DAYS UNTIL PERMANENT EROSION CONTROL IS IN PLACE.
- 19. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
- 20. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- 21. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- 22. 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:
  - . ALL AREAS BEING STABILIZED ARE 1:3 SLOPES OR FLATTER
  - 3. THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH MULCH, METHOD 2.
  - C. ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN OUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
- 23. ALL AREAS WITHIN R.O.W. WILL BE RESTORED WITH TOPSOIL PLACEMENT AND EXCAVATION, SEEDING CLASS 2A OR CLASS 3 AND CLASS 4 WITH EROSION CONTROL BLANKET.
- 24. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATER OF THE U.S. OR ISOLATED WATERS OF COOK COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
- 25. TEMPORARY FENCE SHOULD BE ERECTED ALONG THE DRIP LINE OF EXISTING TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. AFTER TREES ARE SAFELY FENCED, NOTHING IS TO BE STORED, DRIVEN OR DISTURBED INSIDE THE FENCE. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
- 26. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- 27. THE CONTRACTOR SHALL ERECT A PERIMETER EROSION BARRIER AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED, MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "WETLAND PROTECTION ZONE". REMOVE PERIMETER EROSION BARRIER ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
- 28. 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
  PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE
  DEVELOPMENT UNIT AT (847) 705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN(S) SHALL
  BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING
  UP, ATTACHING THE SIGNS TO THE TEMPORARY STAKES AND RETURNING THE SIGNS WILL
  BE NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE
  FOR PERIMETER EROSION BARRIER.
- 29. EROSION CONTROL BLANKET SHALL BE PLACED ON ALL AREAS WITH TEMPORARY SEEDING THAT ARE ON SLOPES 1:3 AND STEEPER OR WITHIN 25 FEET FROM THE EDGE OF SHOULDER/BACK OF CURB AS SHOWN ON THE EROSION AND SEDIMENT CONTROL ON PLAN SHEET 21. EROSION CONTROL BLANKET SHALL BE PLACED ON ALL AREAS WITH PERMANENT SEEDING, CLASS 2A SEEDING OR CLASSES 3 AND 4 AS SHOWN ON THE LANDSCAPING AND PAVEMENT MARKING PLAN ON SHEET 26.
- 30. PROPER DRAINAGE SHALL BE MAINTAINED IN THE IMPROVEMENT AREA DURING CONSTRUCTION.
  THE CONTRACTOR IS TO PREVENT DAMAGE OR CHANGE TO FLOOD PLAINS AND WETLANDS DURING
  THE DRAINAGE MAINTENANCE PROCESS. THE COST OF THIS WORK WILL NOT BE PAID FOR
  SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR PAVEMENT REMOVAL (SPECIAL).

#### SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE

- 1. INSTALL TRAFFIC CONTROL DEVICES.
- 2. PRESERVE AND PROTECT EXISTING VEGETATION.
- 3. REMOVE EXISTING PAVEMENT, SIDEWALKS AND SUPERSTRUCTURE AS SHOWN ON THE PLANS.
- 4. INSTALL TEMPORARY SOIL STABILIZATION CONTROL MEASURES.
- 5. INSTALL NEW BRIDGE SUPERSTRUCTURE.
- 6. INSTALL DRAINAGE STRUCTURES AND STORM SEWERS AS SHOWN ON DRAINAGE PLANS.
- 7. INSTALL EMBANKMENT WIDENING AND ROADWAY SUBGRADE.
- 8. INSTALL CURB AND GUTTER AND NEW PAVEMENT.
- 9. INSTALL SIDEWALKS.
- 10. PROVIDE SEEDING.
- 11. PROVIDE LANDSCAPING ITEMS.
- 12. PERFORM CONTINUING MAINTENANCE OF SEDIMENT CONTROL MEASURES.
- 13. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES
  AFTER STABILIZATION OF DISTURBED GROUND.

#### **SOIL PROTECTION SCHEDULE:**

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDING						-				_	_	
DORMANT SEEDING			-									-
TEMPORARY SEEDING										•		
EROSION BLANKET / HYDROMULCH											_	

#### TREE PROTECTION SCHEDULE

STATION	OFFSET (FEET)	SIZE (INCH)	RECOMMENDED ACTION
104+60	53′ LT	14	TREE TRUNK PROTECTION
104+60	83′ LT	4	TREE TRUNK PROTECTION
104+68	47' LT	15	TREE TRUNK PROTECTION
104+76	82' LT	10	TREE TRUNK PROTECTION
105+40	39′ LT	18	TREE TRUNK PROTECTION
105+43	39′ LT	17	TREE TRUNK PROTECTION
105+44	71' LT	21	TREE TRUNK PROTECTION
106+15	29′ RT	30	TREE TRUNK PROTECTION

#### **HIGHWAY STANDARDS**

STD. NO. TITL

FR

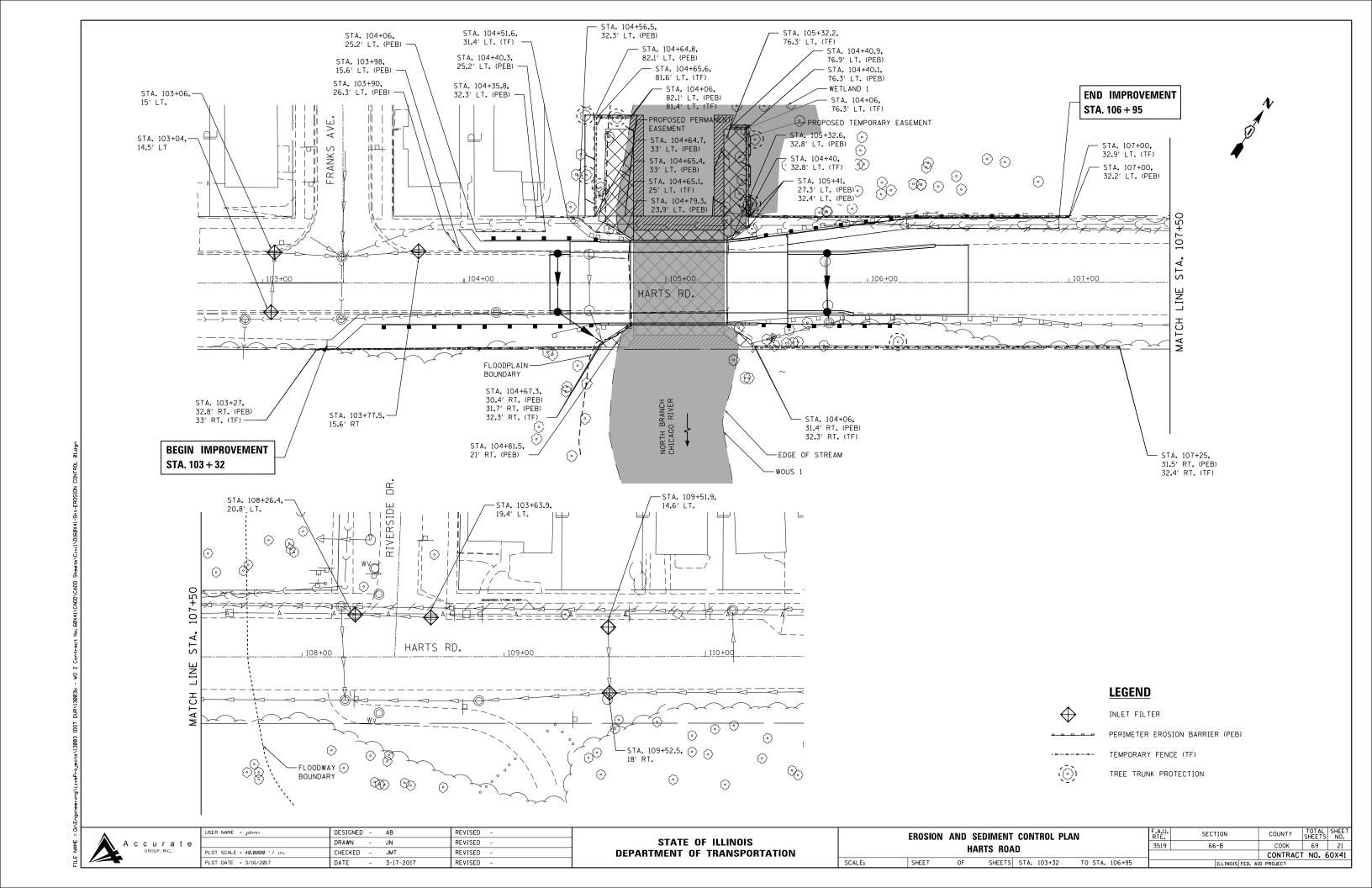
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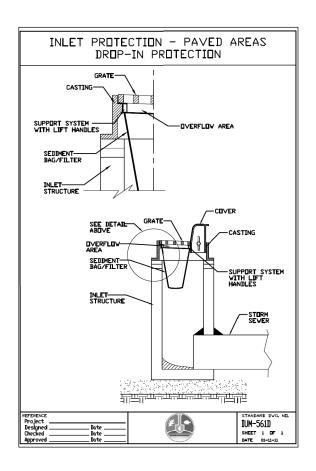
280001 TEMPORARY EROSION CONTROL SYSTEMS

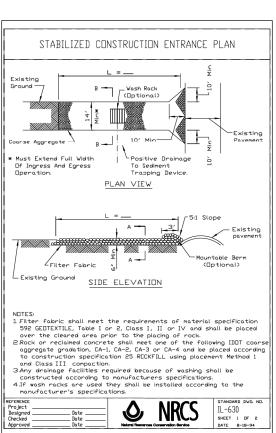
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	DRAWN	-	AB	REVISED -
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PLOT DATE = 3/16/2017	DATE	-	3-17-2017	REVISED -

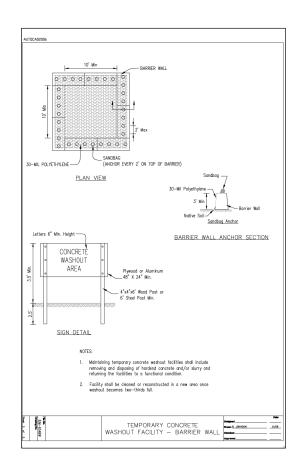
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

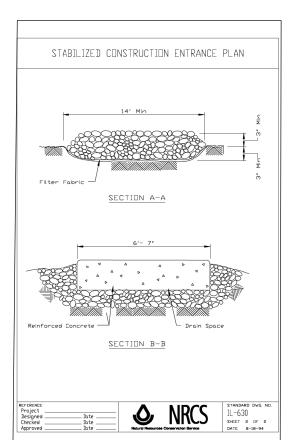
I	ROSION AND SEDIMENT CONTROL NOTES &						SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
TREE PROTECTION SCHEDULE					LE	3519	66-B	соок	69	20
	HARTS ROAD							CONTRAC	NO. 6	50X41
	SHEET	OF	SHEETS	STA.	TO STA.		TILL INDIS FED. A	ID PROJECT		

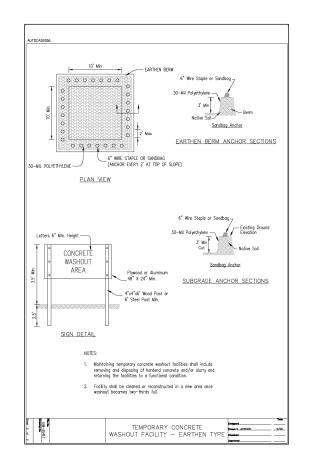










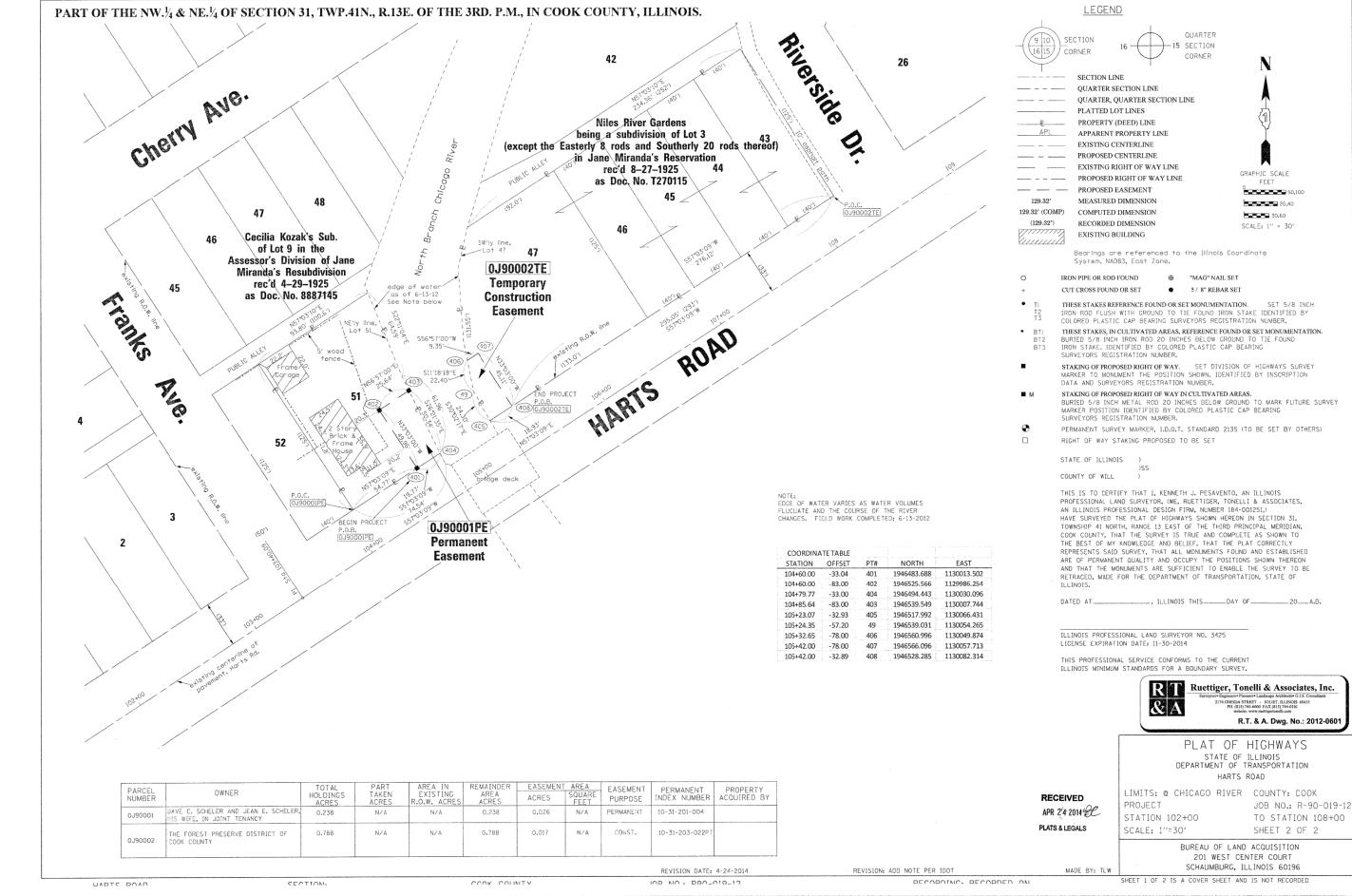


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	DRAWN - JN	REVISED -
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PLOT DATE = 3/16/2017	DATE - 3-17-2017	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	EROSION CONTROL DETAILS HARTS ROAD							F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								3519	66-B	соок	69	22
										CONTRAC	NO. 6	50X41
	SHEET	1	OF	4	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



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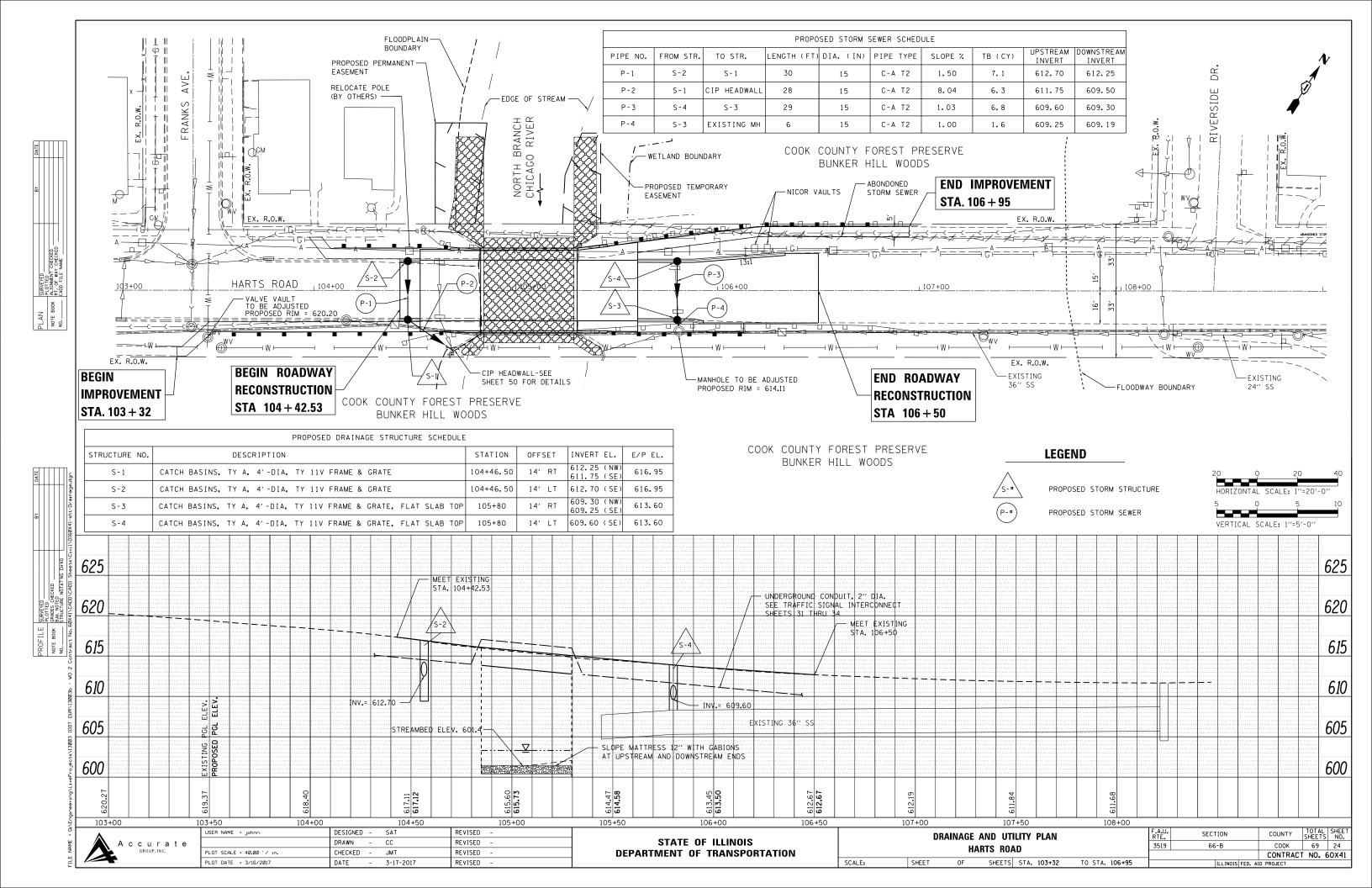
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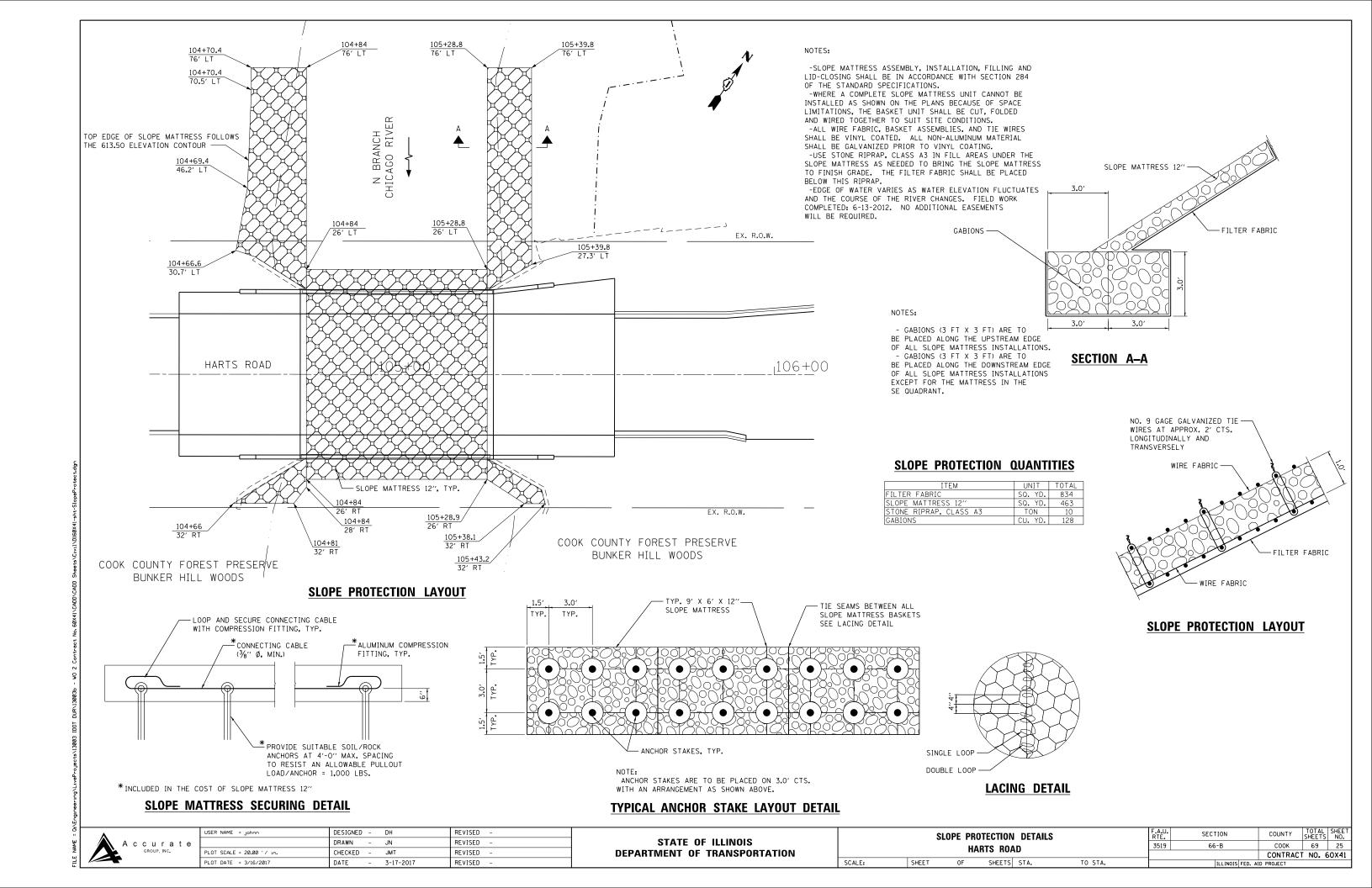
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

**PLAT OF HIGHWAYS** HARTS ROAD SHEET SHEETS STA. OF

SECTION COUNTY 3519 66-B COOK 69 23 CONTRACT NO. 60X41

TO STA.





#### **PAVEMENT MARKING LEGEND**

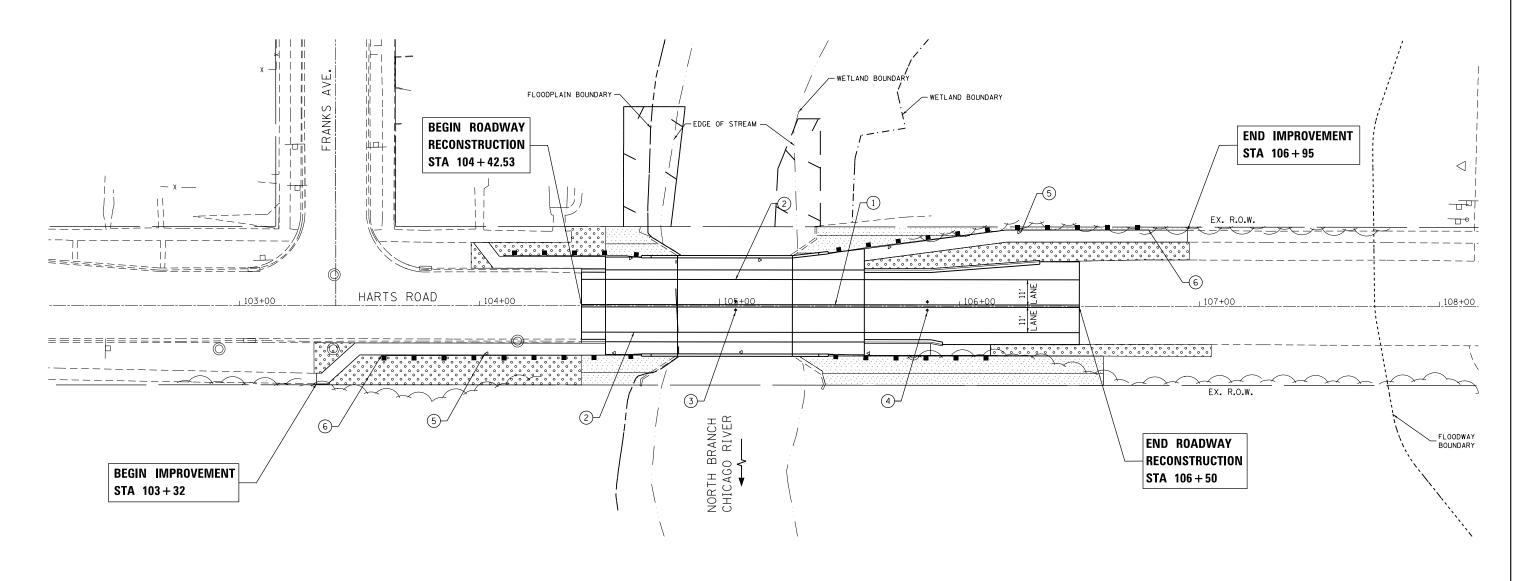
- 1) POLYUREA PAVEMENT MARKING TYPE I LINE 4", DOUBLE YELLOW
- 2) POLYUREA PAVEMENT MARKING TYPE I LINE 4", WHITE
- (3) RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) 2 WAY AMBER
- 4) RAISED REFLECTIVE PAVEMENT MARKER 2 WAY AMBER
- 5) GUARDRAIL REFLECTORS, TYPE B, MONODIRECTIONAL CRYSTAL
- (6) TERMINAL MARKER DIRECT APPLIED



#### **LANDSCAPING LEGEND**

SEEDING, CLASS 2A W/EROSION CONTROL BLANKET

SEEDING, CLASS 3 AND CLASS 4 W/EROSION CONTROL BLANKET



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DRAWN - CC	USER NAME = johnn	DESIGNED - SAT	REVISED -
		DRAWN - CC	REVISED -
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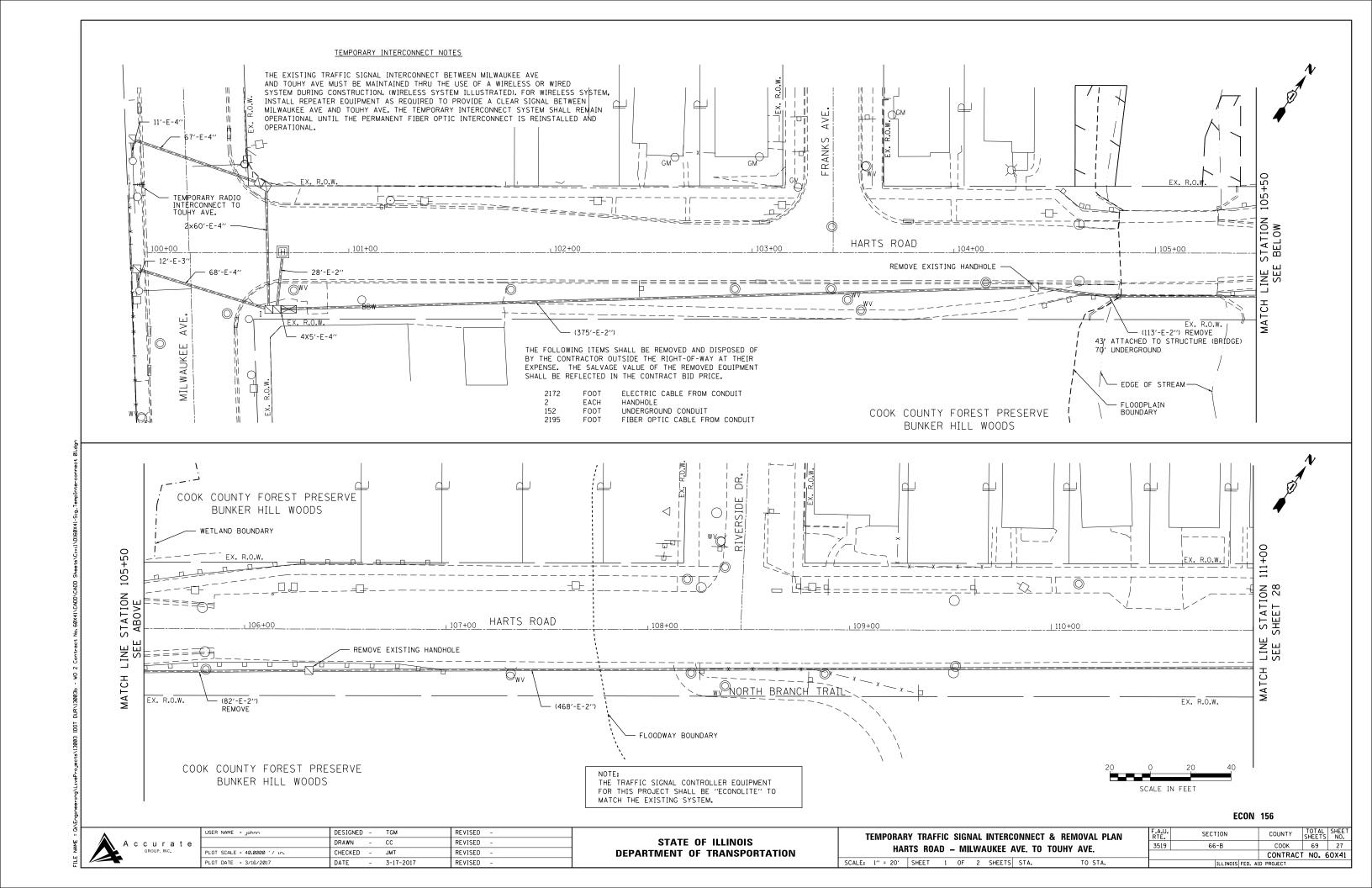
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

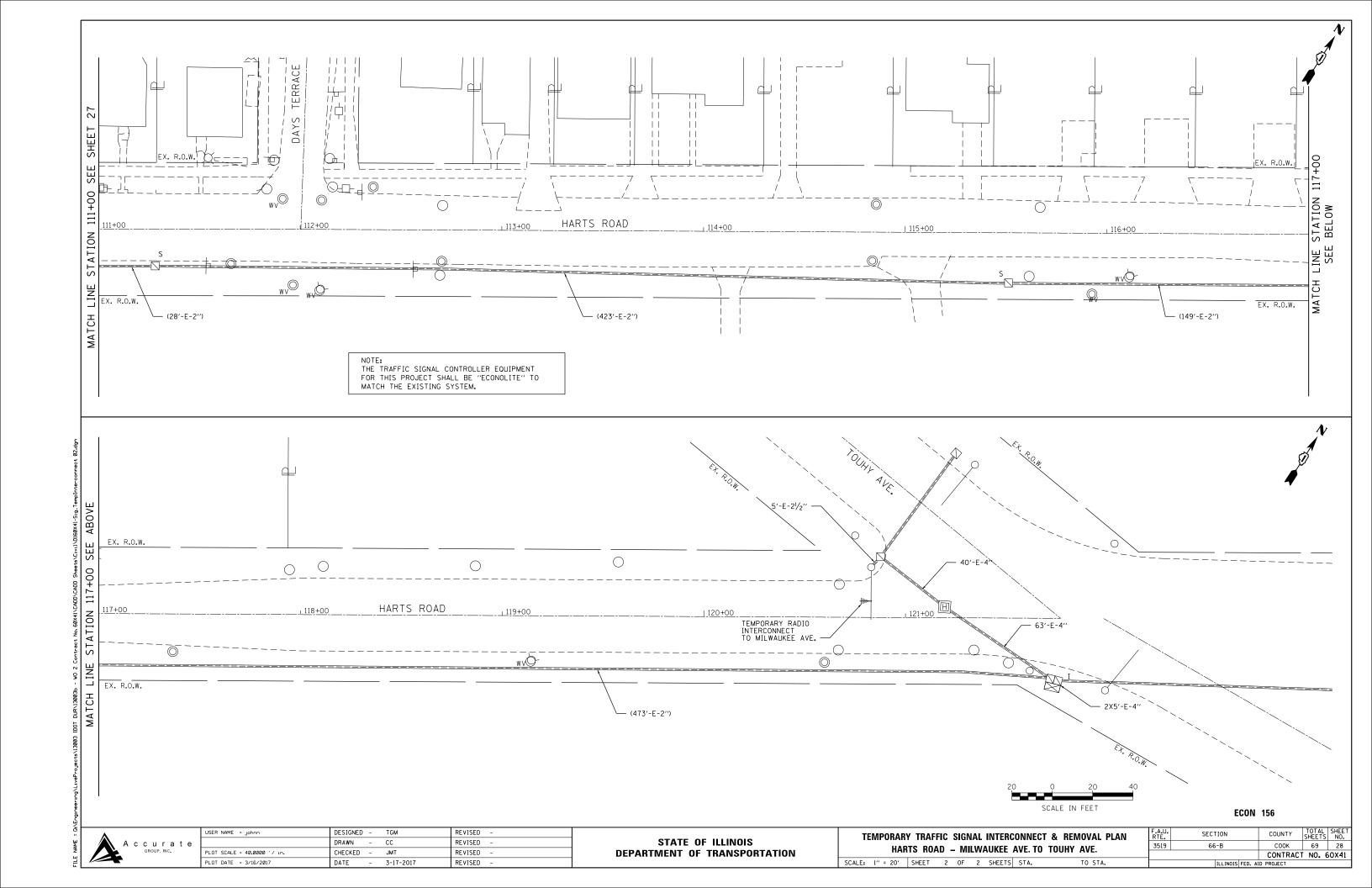
LA	NDSCAPING	AND	<b>PAVEMENT</b>	MARKING	PLAN		
HARTS ROAD							
	SHEET	ΩF	SHEETS ST	۸.	TO STA	_	

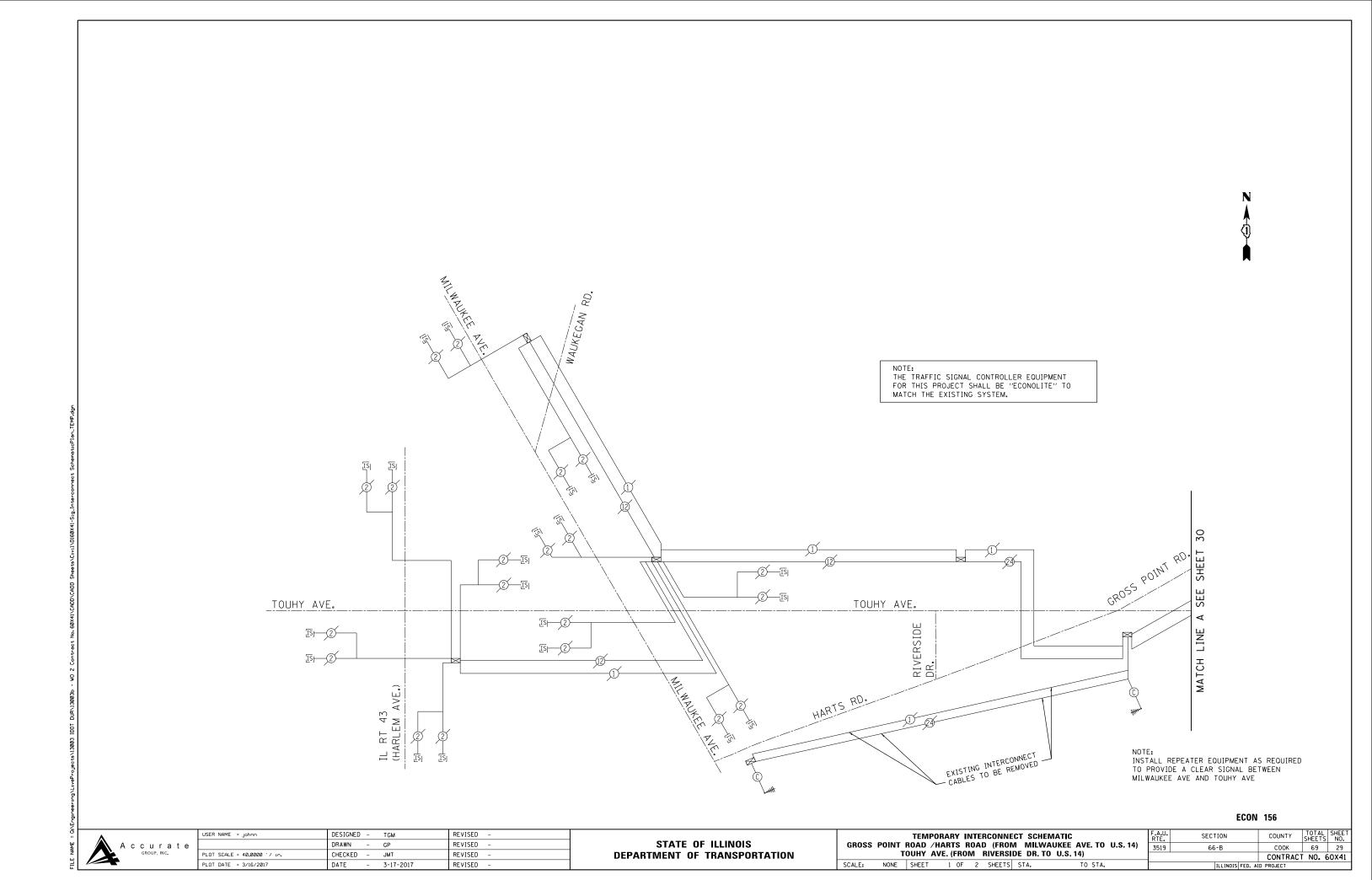
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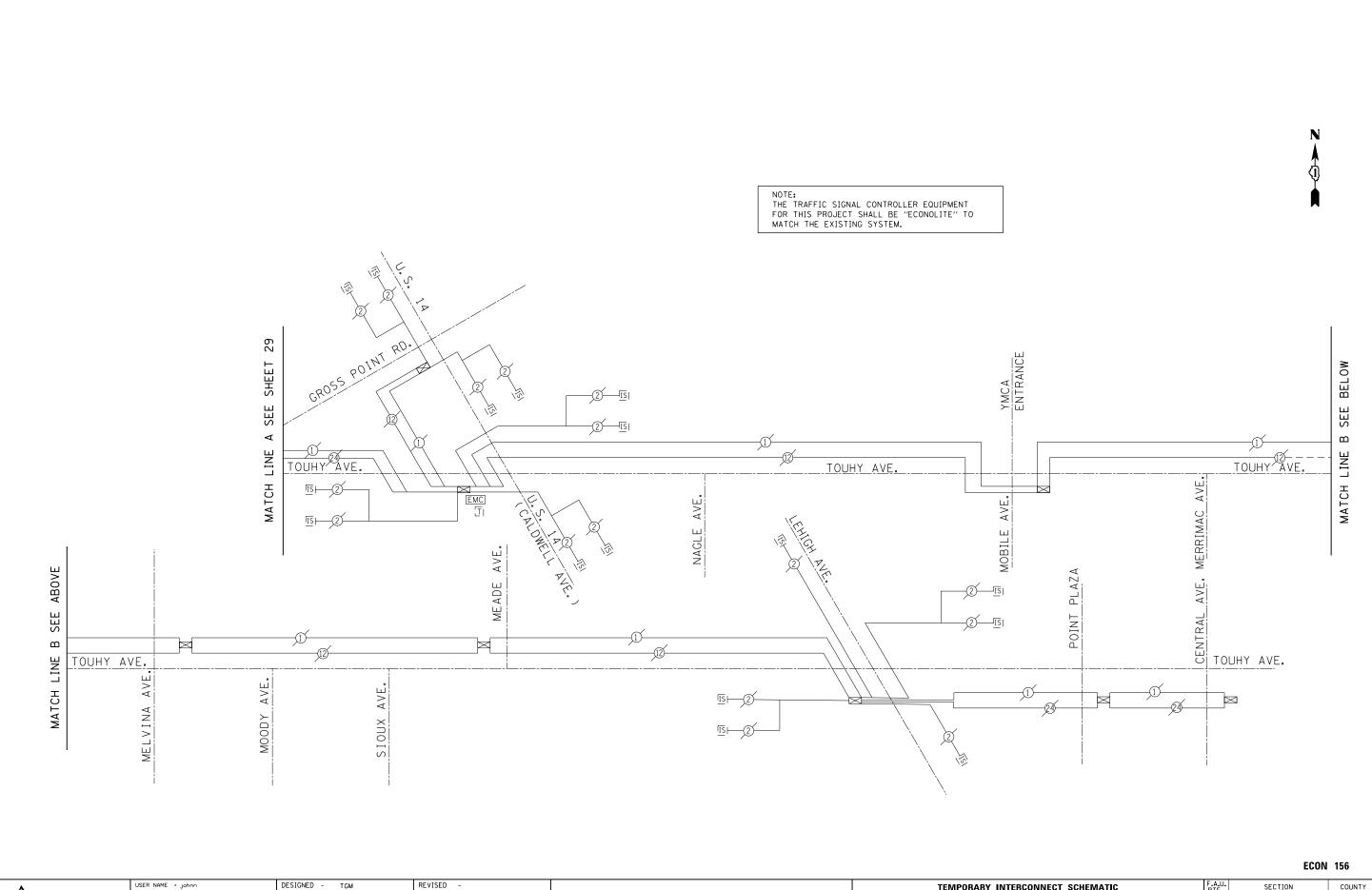
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Accurate GROUP, INC.

DESIGNED - TGM REVISED

DRAWN - GP REVISED

PLOT SCALE = 40.0000 '/ in. CHECKED - JMT REVISED

PLOT DATE = 3/16/2017 DATE - 3-17-2017 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

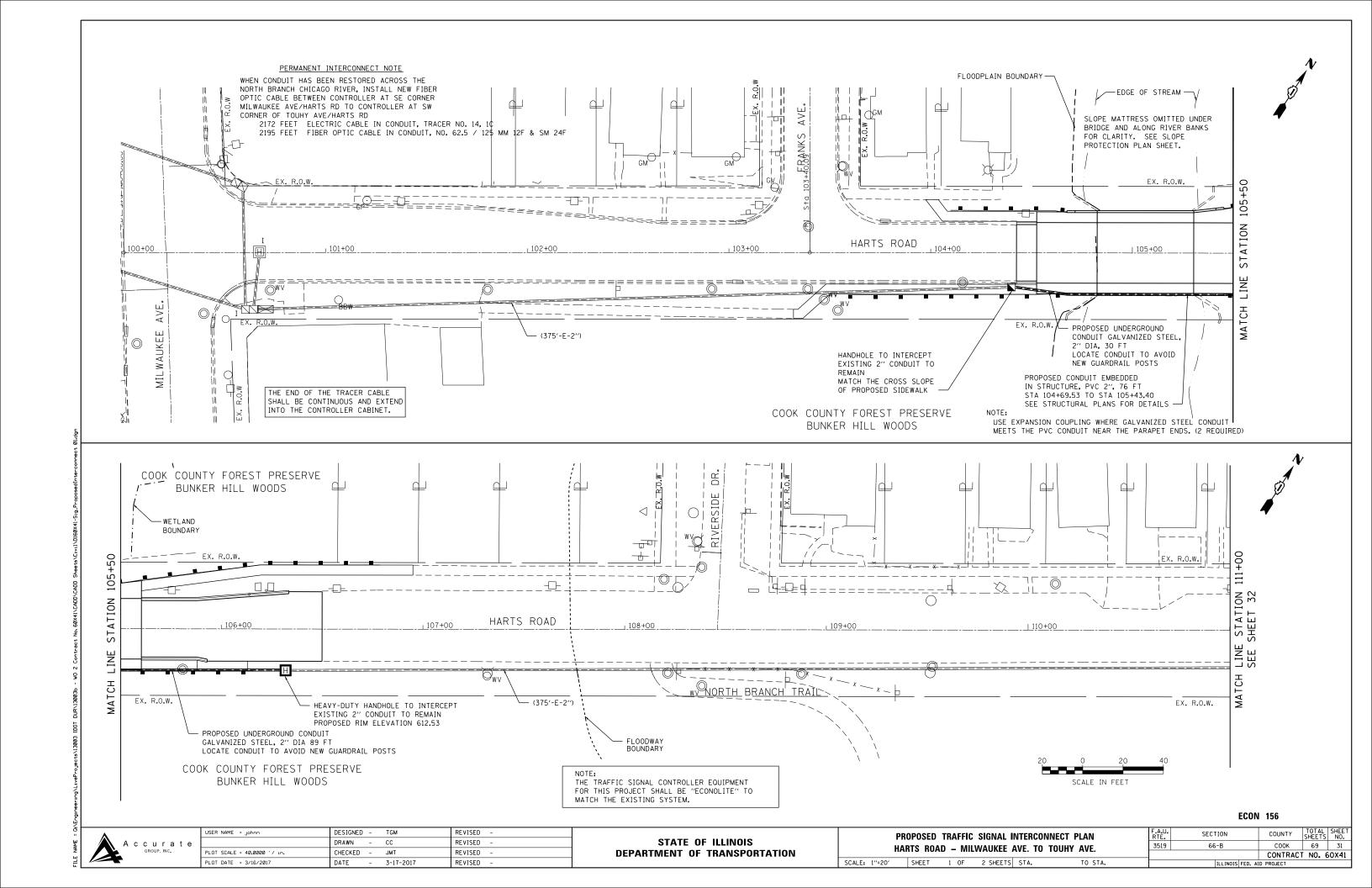
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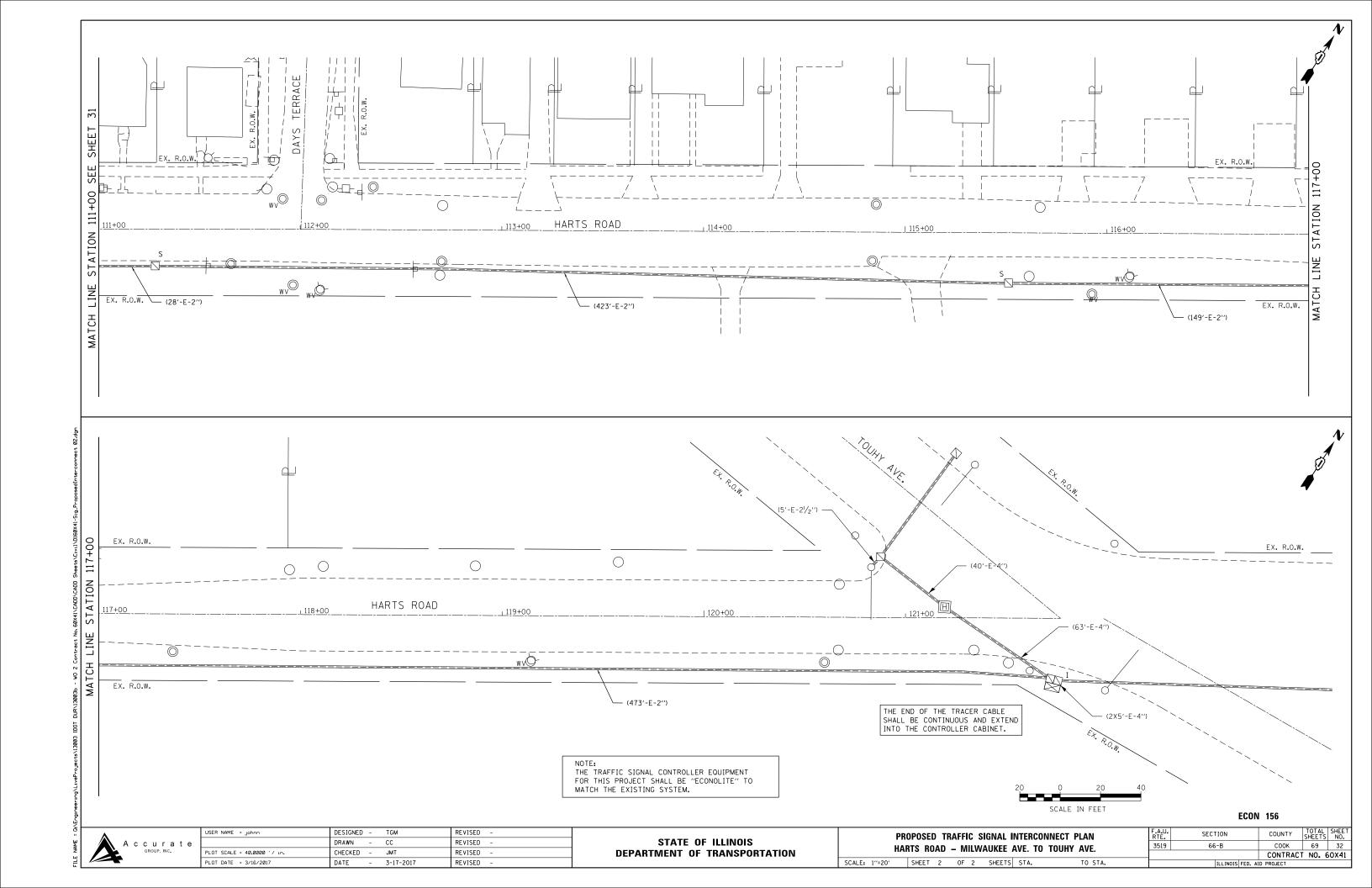
GROSS POINT ROAD /HARTS ROAD (FROM MILWAUKEE AVE. TO U.S. 14)

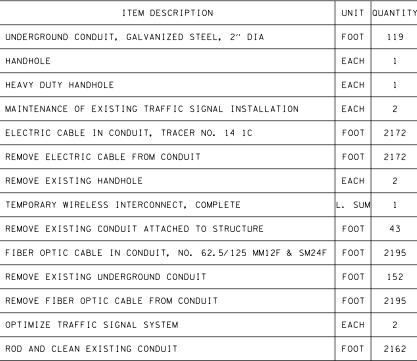
TOUHY AVE. (FROM RIVERSIDE DR. TO U.S. 14)

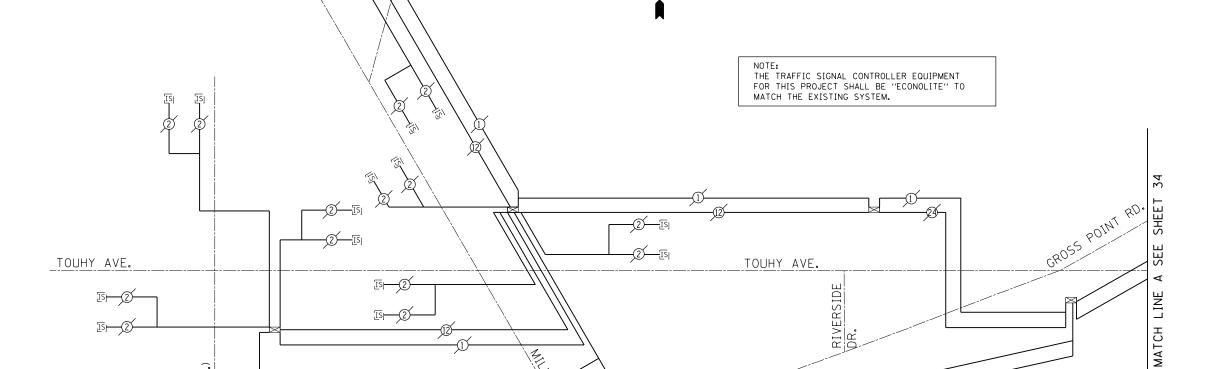
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

4) F.A.U. RTE. SECTION COUNTY SHEETS NO. 3519 66-B COOK 69 30 CONTRACT NO. 60X41





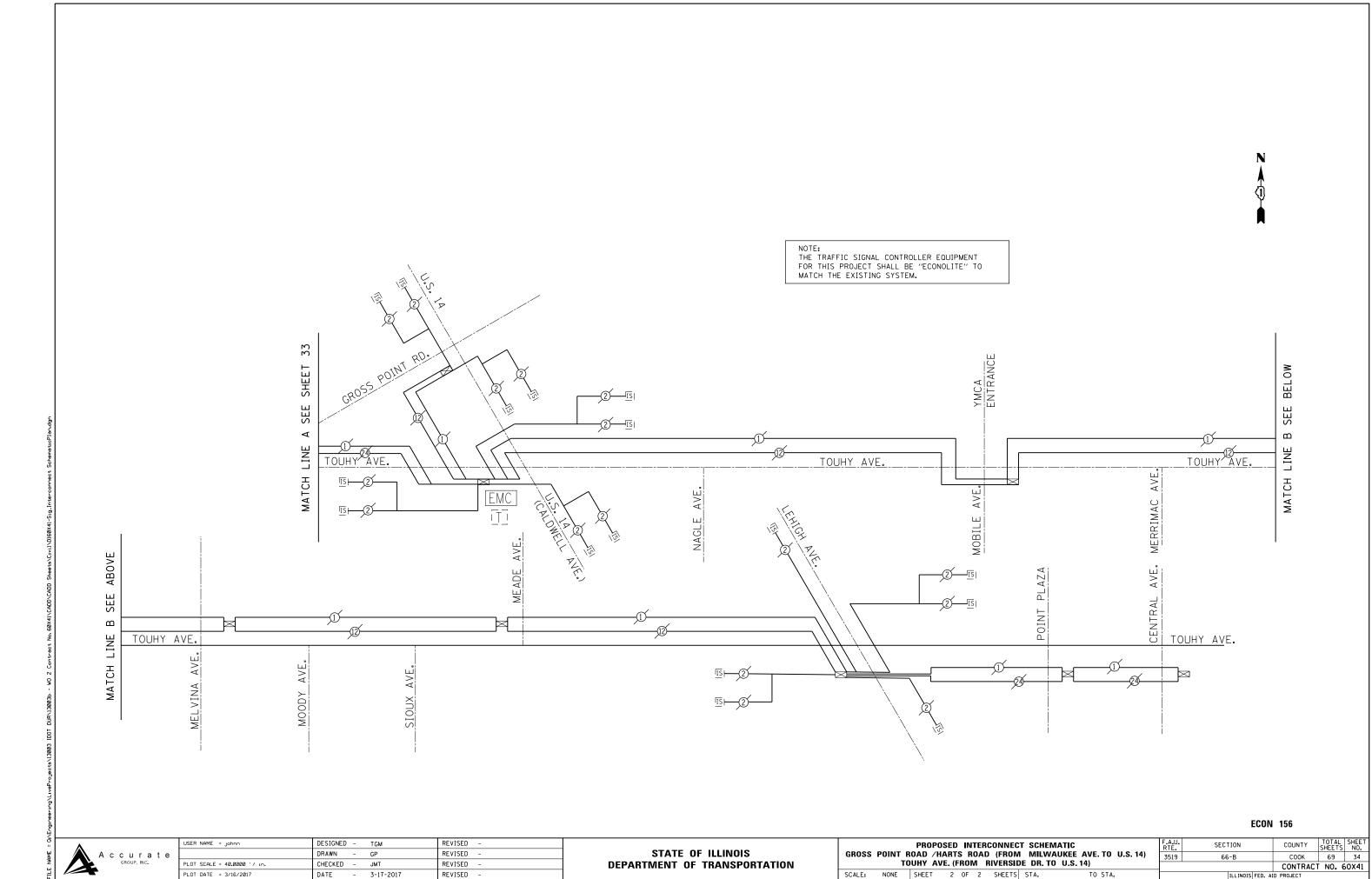


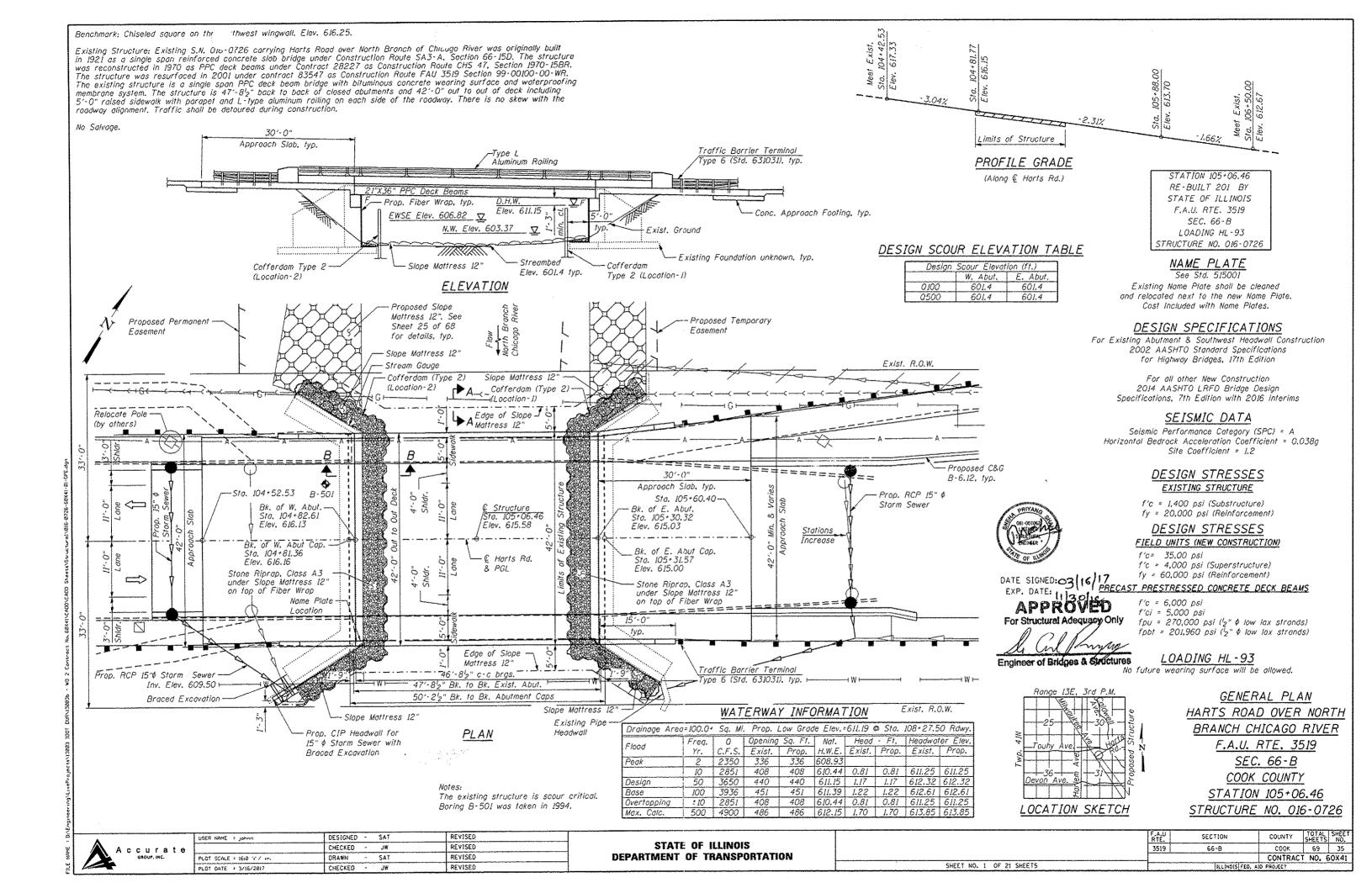


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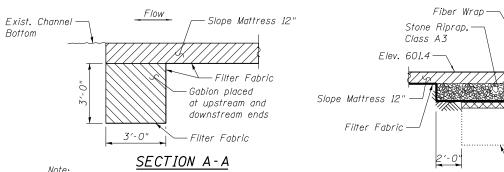
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PLOT SCALE = 40.0000 '/ in.	CHECKED	-	JMT	REVISED -	
PLOT DATE = 3/16/2017	DATE	-	3-17-2017	REVISED -	
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#### GENERAL NOTES

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. 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
- 3. Concrete Sealer shall be applied to the top and front face of the Southwest headwall.
- 4. Existing Asbestos Bearing Pads are located on the East Abutment. See Special Provisions.
- 5. The Contractor shall locate all underground utilities before constructing the cofferdams.
- 6. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 7. Backfill shall be placed behind the abutment after the superstructure has been poured and falsework removed. See Supplemental Specifications and Recurring Special Provisions Adopted January 1, 2017.
- 8. For Filter Fabric Quantity, See Sheet 25 of 68.



Slope Mattress shall be securely wired down to the gabions in accordance with the requirements of Article 284 of the Standard Specifications, See Sheet 25 of 68 for Slope Mattress and Gabions Details and Bill of Materials.

#### SCOPE OF WORK

- Install Temporary Wall Bracing System and excavate behind the abutment walls.
- Remove abandoned natural gas line from existing structure.
- Remove existing 3" Bituminous Overlay, existing 21"x36" PPC Deck Beams and Approach Slabs.
- Install Cofferdam, Type 2 at both abutments and all four wingwalls.
- Remove and reconstruct abutment seat of both abutments.
- Install Braced Excavation at southwest wingwall.
- Remove existing concrete headwall at the southwest wingwall and replace with a C.I.P. concrete headwall in the southwest ditch.
- Perform structural repair of concrete on both of the abutments and all four wingwalls and then install Fiber Wrap on face of both of the abutments, footings and all four wingwalls.
- Remove Cofferdam, Type 2.
- Install Slope Mattress 12" along the channel bottom under the bridge from face to face of abutments, along all wingwalls and 5'-0" outside of edge of deck.
- Install new 21"x36" PPC Deck Beams.
- Dowel Rods for new deck beams shall be installed and the grout shall be cured prior to removal of the Temporary Wall Bracing System.
- Install 5" min. Concrete Wearing Surface.
- Construct Granular Backfill for Structures and approach slabs.
- Install sidewalks and parapets on both the sides of the roadway. Embed traffic signal interconnect conduit in south parapet.
- Slope stabilization methods shall be used to the North (upstream) side of the bridge.
- Install Stream Gauge after Structural Repair of Concrete and Fiber Wrap has been installed on northwest wingwall.

#### INDEX OF SHEETS

- 1. General Plan
- 2. General Notes and Total Bill of Material
- 3. Top of West Approach Slab Elevations
- 4. Top of East Approach Slab Elevations
- 5. Superstructure Plan and Cross Section
- 6. Superstructure Details
- 7. West Bridge Approach Slab
- 8. West Bridge Approach Slab Details
- 9. East Bridge Approach Slab
- 10. East Bridge Approach Slab Details
- 11. Aluminum Railing, Type L
- 12. 21"X36" PPC Deck Beam
- 13. 21"X36" PPC Deck Beam Details
- 14. West Abutment Repairs
- 15. Northwest Wingwall Stream Gauge
- 16. Southwest Headwall Details
- 17. East Abutment Repairs

Face of

Bot./Exist. Ftg.

SECTION B-B

Fxist, Abut,

- 18. Abutment Seat Reconstruction
- 19. Existing Substructure (For Information Only)
- 20. Soil Boring Log I (For Information Only)
- 21. Soil Boring Log II (For Information Only)

#### Backfill with Granular Backfill for Structures by Bridge Contractor after superstructure is in place. Approach Slab Excavation for placina Granular Backfill for Geocomposite-Structures is paid for Wall Drain as Structure Excavation ** Geotechnical Fabric for 6" 1'-0" French Drains **Drainage Aggregate Bottom of Cap `—Fiber Wrap 1'-3" 1'-6" **4" \$\phi\$ Perforatedpipe drain Bk. of Abut. Cap **Included in the cost of Pipe Underdrains for Structures 4" Exist. Bk. of Abut.

Concrete Superstructure Cu Yd Bridge Deck Grooving Sq Yd Protective Coat Sq Yd Concrete Superstructure Cu Yd (Approach Slab) Precast Prestressed Concrete Sq Ft Deck Beams (21" Depth) Reinforcement Bars, Epoxy Coated Pound Aluminum Railing, Type L Foot Name Plates Each Concrete Sealer Sq Ft Geocomposite Wall Drain Sq Yd Conduit Embedded in Structure, Foot 2" Dia., PVC Acrylic Coating Sa Yd Fiber Wrap Sa Ft Stream Gauge Each Braced Excavation Cu Yd Concrete Wearing Surface, 5 Sa Yd Granular Backfill for Structures Cu Yd Asbestos bearing Pad Removal Fach

Structural Repair of Concrete (Depth

Structural Repair of Concrete (Depth

Pipe Underdrains for Structures 4"

Temporary Wall Bracing System

Equal to or Less than 5 Inches)

Greater than 5 Inches)

Stone Riprap, Class A3

Concrete Headwall Removal

`oncrete Removai

Structure Excavation

Cofferdam Excavation

Concrete Structures

Removal of Existing Superstructures

Cofferdam (Type 2) (Location - 1)

Cofferdam (Type 2) (Location - 2)

TOTAL BILL OF MATERIAL

Ton

Each

Cu Yd

Fach

Cu Yd

Cu Yd

Each

Each

Cu Yd

337

554

125.5

1868

140

28

Sq Ft

Sa Ft

Foot

L Sum

TOTAL

92

26.9

90

85

1

48.3

337

554

125.5

1868

60,940

140

1

25

50

76

277

2488

208

90

28

579

30

152

92

26.9

90

85

48.3

7950

25

50

277

2488

90

579

30

152

Temporary Wall Bracing System (To be Designed by Contractor) Wall shall be fully supported along full width of each abutment 44'-812 Face to Face Abutments

TEMPORARY WALL BRACING SYSTEM

LEGEND

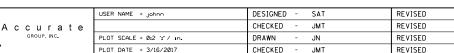


Removal of Existing Superstructures

#### Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

SECTION THRU ABUTMENT



STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  **GENERAL NOTES AND TOTAL BILL OF MATERIAL STRUCTURE NO. 016-0726** SHEET NO. 2 OF 21 SHEETS

SECTION COUNTY 3519 66-B COOK 69 36 CONTRACT NO. 60X41

## NORTH EDGE OF W. APPROACH SLAB

Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of West Approach Slab	104+52.53	20.33 Lt.	616.73
A1	104+62.53	20.33 Lt.	616.42
A2	104+72.53	21.00 Lt.	616.10
E. End of West Approach Slab	104+82.53	21.00 Lt.	615.80

## NORTH EDGE OF PAVEMENT

Location	Station	Offset (Ft,)	Theoretica Grade Elevations
W. End of West Approach Slab	104+52.53	15.00 Lt.	616.81
A1	104+62.53	15.00 Lt.	6 <i>1</i> 6 <b>.</b> 50
A2	104+72.53	15.00 Lt.	616.20
E. End of West Approach Slab	104+82.53	15.00 Lt.	615.90

## @ HARTS RD. & PROFILE GRADE LINE

Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of West Approach Slab	104+52.53	0.00	617.04
A1	104+62.53	0.00	6 <i>1</i> 6.74
A2	104+72.53	0.00	616.43
E. End of West Approach Slab	104+82.53	0.00	616.13

# -North Edge of W. Approach Slab - North Edge of Pavement W. End of West -- E. End of West Approach Slab Approach Slab – © Harts Rd. & Profile Grade Line - South Edge of Pavement -South Edge of W. Approach Slab 15'-0", typ. 3 Spaces @ 10'-0"=30'-0"

## SOUTH EDGE OF PAVEMENT

Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of West Approach Slab	104+52.53	15.00 Rt.	616.81
A1	104+62.53	15.00 Rt.	6 <i>1</i> 6 <b>.</b> 50
A2	104+72.53	15.00 Rt.	616.20
E. End of West Approach Slab	104+82.53	15.00 Rt.	615.90

## SOUTH EDGE OF W. APPROACH SLAB

Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of West Approach Slab	104+52.53	20.33 Rt.	616.73
A1	104+62.53	20.33 Rt.	616.42
A2	104+72.53	21.00 Rt.	616.10
E. End of West Approach Slab	104+82.53	21.00 Rt.	615.80

<u>PLAN</u>



USER NAME = Johnn	DESIGNED - AB	REVISED
	CHECKED - JMT	REVISED
PLOT SCALE = 0:2 ':" / 10.	DRAWN - JN	REVISED
PLOT DATE = 3/16/2017	CHECKED - SAT	REVISED

Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of East Approach Slab	105+30.40	21.00 Lt.	614.70
A3	105+40.40	22.17 Lt.	614.45
A4	105+50.40	22.67 Lt.	614.21
E. End of East Approach Slab	105+60.40	23.84 Lt.	613.96

## NORTH EDGE OF PAVEMENT

Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of East Approach Slab	105+30.40	15.00 Lt.	614.79
A3	105+40,40	15.00 Lt.	614.56
A4	105+50.40	15.00 Lt.	614.33
E. End of East Approach Slab	105+60 <b>.</b> 40	15.00 Lt.	614.10

## @ HARTS RD. & PROFILE GRADE LINE

Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of East Approach Slab	105+30.40	0.00	615.03
A3	105+40.40	0.00	614.80
A 4	105+50.40	0.00	614.57
E. End of East Approach Slab	<i>105+60.40</i>	0.00	614.34

# - North Edge of E. Approach Slab - North Edge of Pavement W. End of East — Approach Slab - E. End of East Approach Slab - € Harts Rd. & Profile Grade Line - South Edge of Pavement — South Edge of E. Approach Slab 15′-0", typ. 3 Spaces @ 10'-0"=30'-0"

## SOUTH EDGE OF PAVEMENT

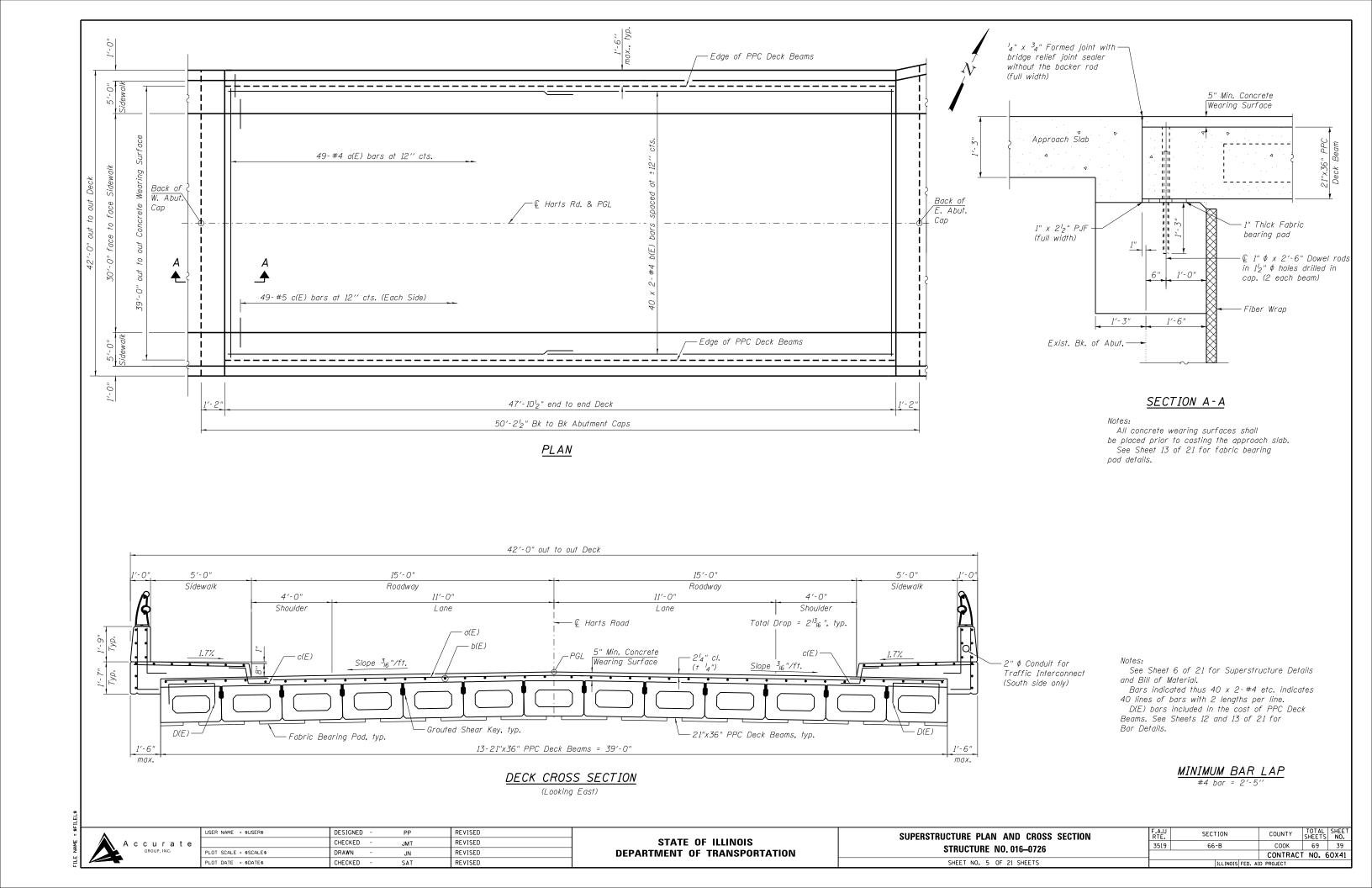
Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of East Approach Slab	105+30.40	15.00 Rt.	614.79
A3	105+40.40	15.00 Rt.	614.56
A4	105+50.40	15.00 Rt.	614.33
E. End of East Approach Slab	105+60.40	15.00 Rt.	614.10

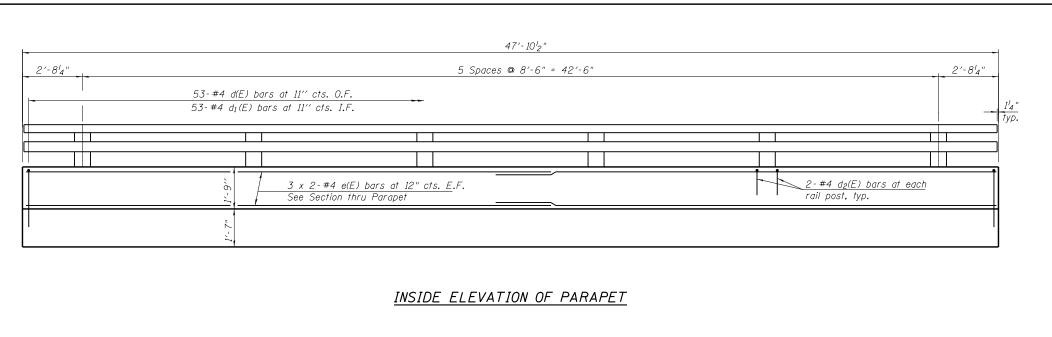
## SOUTH EDGE OF E. APPROACH SLAB

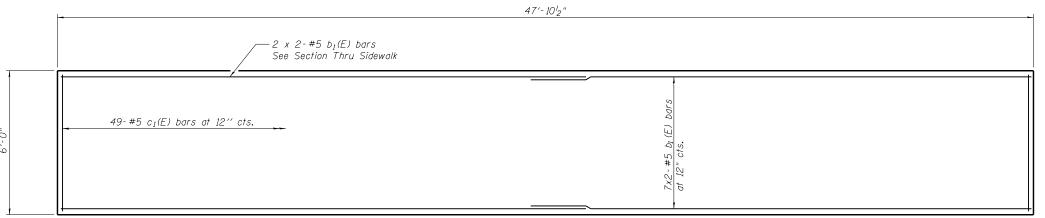
Location	Station	Offset (Ft.)	Theoretical Grade Elevations
W. End of East Approach Slab	105+30.40	21.00 Rt.	614.70
A3	105+40.40	21.00 Rt.	614.47
A4	105+50.40	20.33 Rt.	614.25
E. End of East Approach Slab	105+60.40	20.33 Rt.	614.02

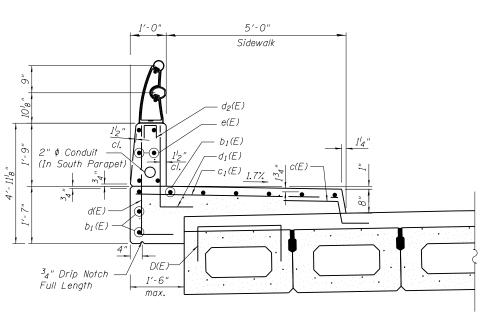
<u>PL A N</u>

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	CHECKED -	-	JMT	REVISED	
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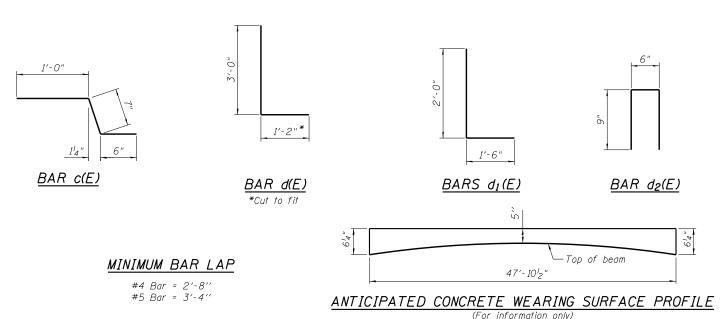








## SIDEWALK PLAN



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

Bar	No.	Size	Length	Shape	
a(E)	49	#4	38′-8"		
b(E)	80	#4	25′-0"		
<i>b</i> ₁ ( <i>E</i> ) 36 #5		25′-6"			
c(E)	98	#5	2'-1"		
c1(E)	98	#5	5′-6"		
d(E)	106	#4	4'-2"	L	
$d_1(E)$	106	#6	3′-6"	Г	
d ₂ (E)	24	#4	2'-0"		
e(E)	24	#4	25′-2"		
	Item		Unit	Total	
	rcement Coated	Bars,	Pound	5630	
Concre Supers	te tructure	÷	Cu. Yd.	25.5	
Concre Surfac	te Wear e, 5′′	ing	Sq. Yd.	208	
Bridge	Deck G	rooving	Sq. Yd.	149	
Protect	tive Coa	t	Sq. Yd.	248	

Bars indicated thus 3 x 2-#4 etc. indicates 3 lines of bars with 2 lengths per line.

O.F. denotes Outer Face

I.F. denotes Inside Face

See Sheet 13 of 21 for D(E) bar details.

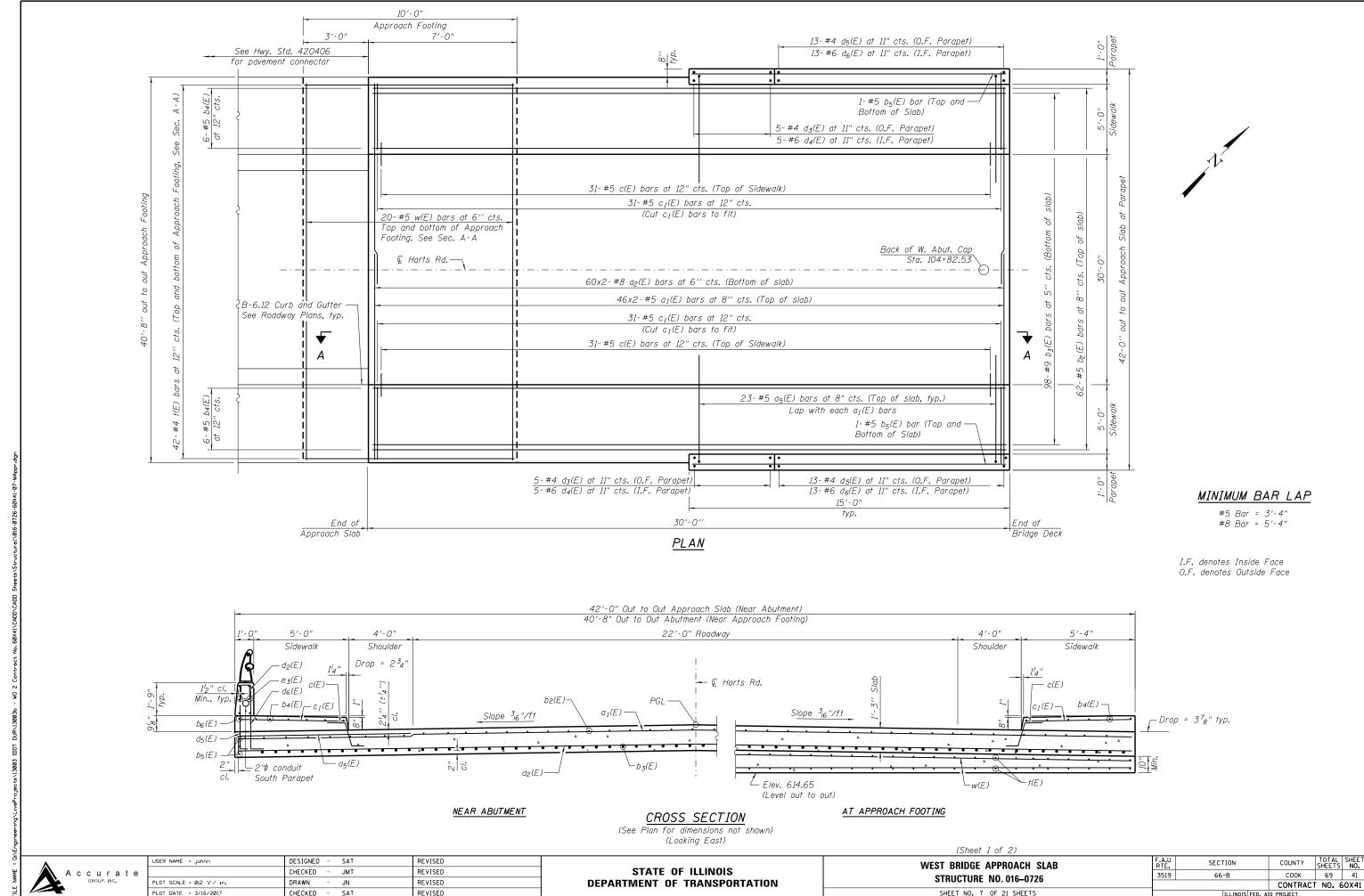
## SECTION THRU SIDEWALK

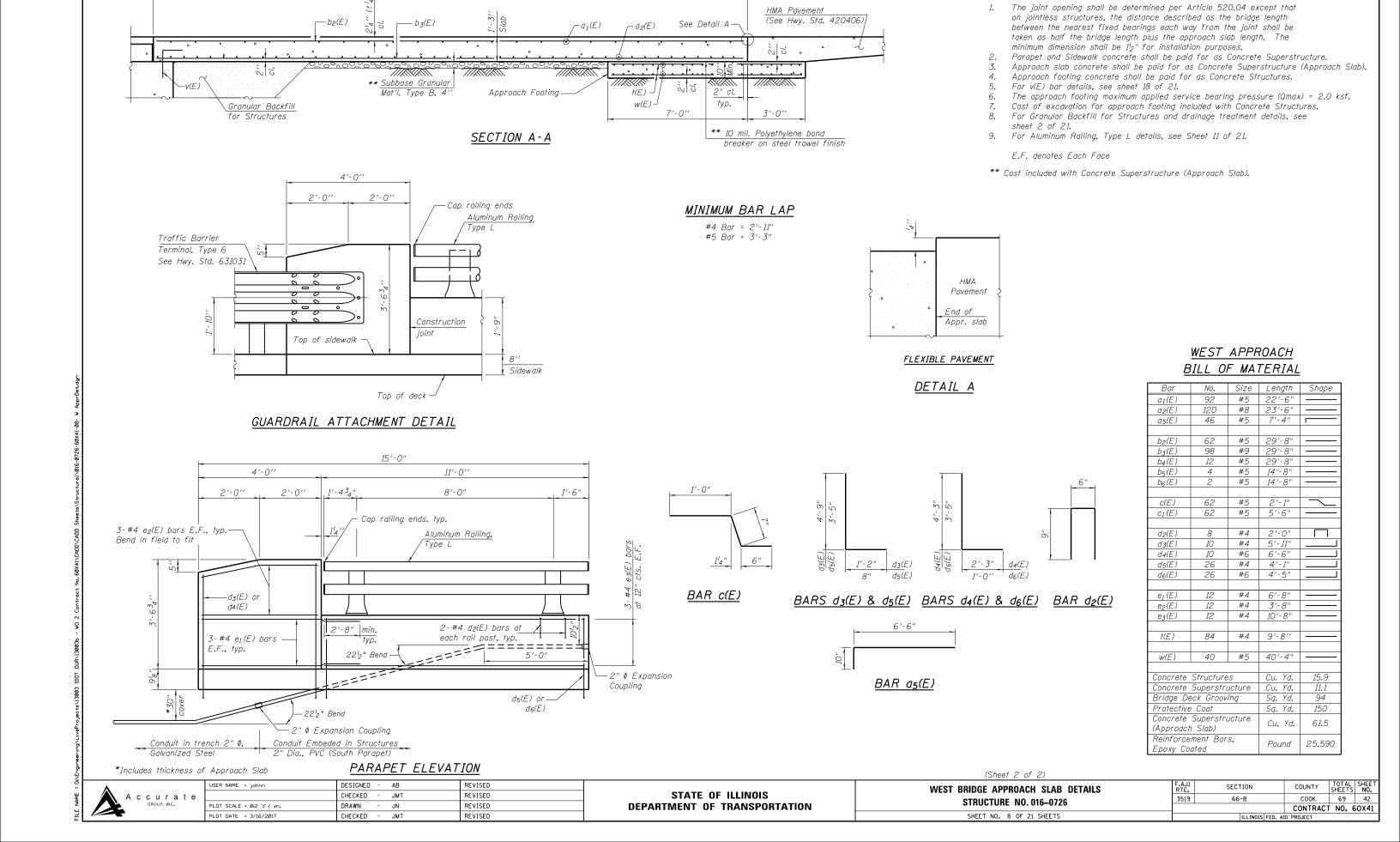
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1		PLOT DATE = 3/16/2017	CHECKED - JMT	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS									
STRUC	TUF	RE	NO	. 0	16–0726				
SHEET	NO	6	ΩF	21	SHEETS	_			

	ILLINOIS	FFD. AT		.,,,,	
			CONTRACT	NO. 6	OX41
3519	66-B		соок	69	40
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	





End of

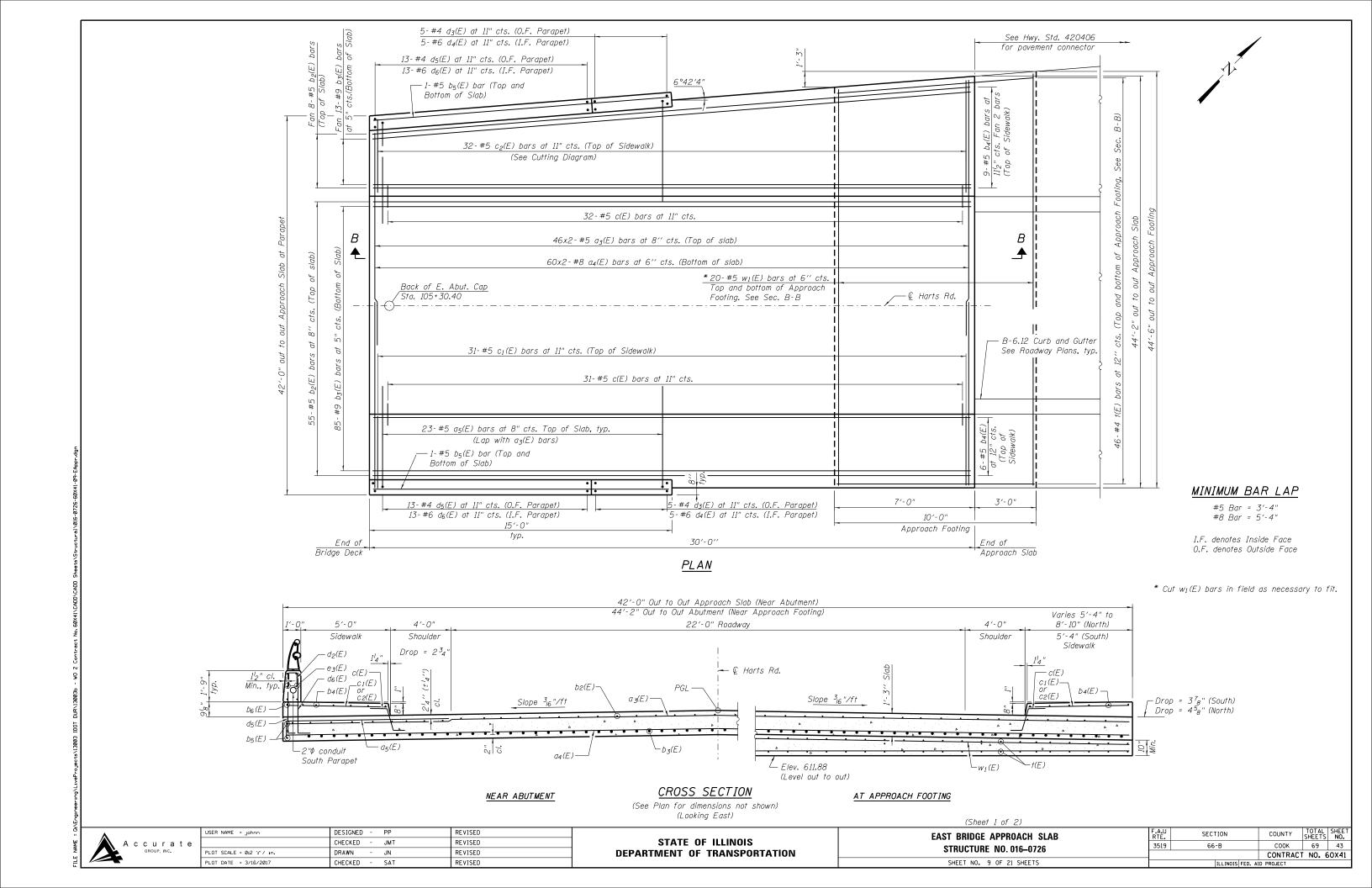
Approach Slab

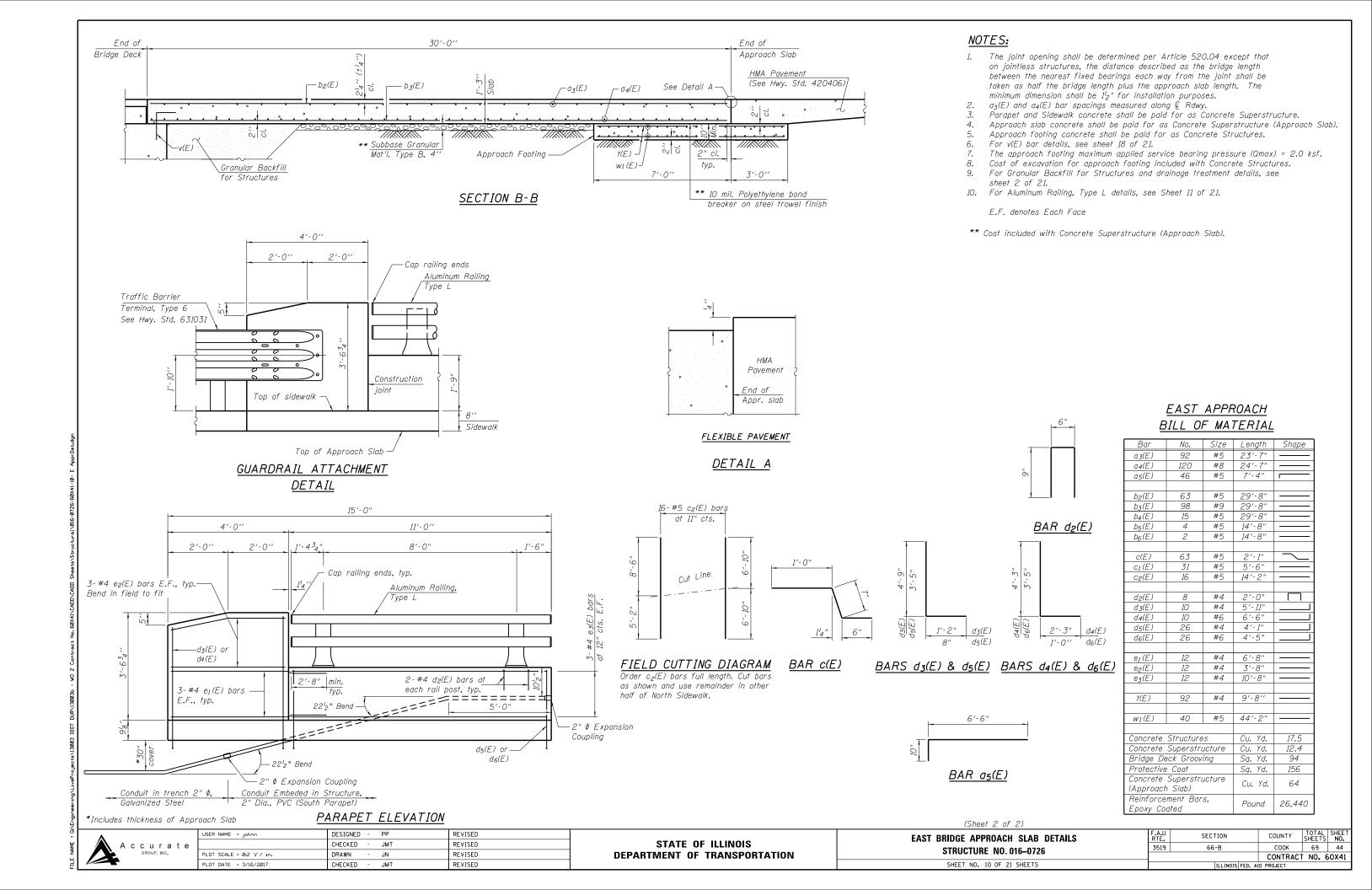
NOTES:

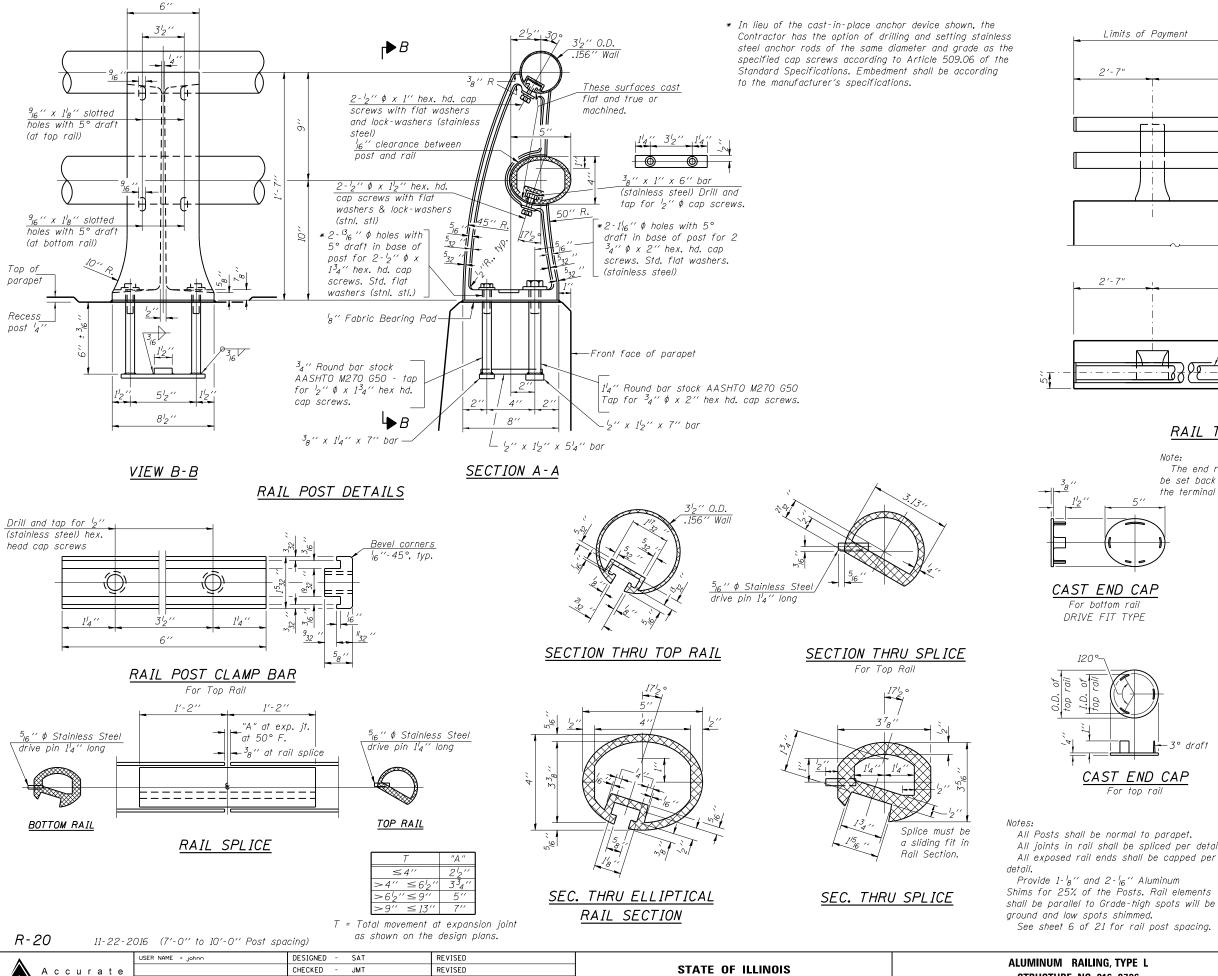
End of

Bridge Deck

30'-0"







DRAWN

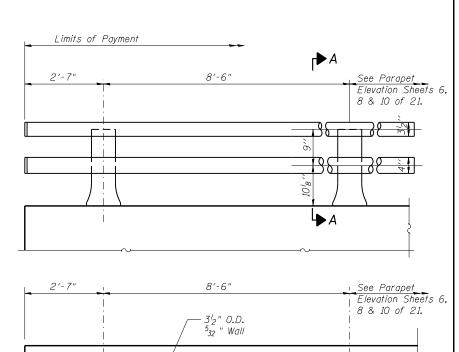
PLOT DATE = 3/16/2017

CHECKED - JMT

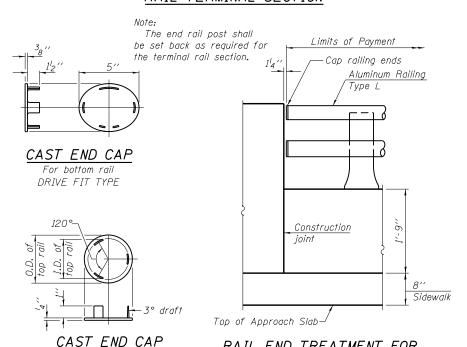
JN

REVISED

REVISED



## RAIL TERMINAL SECTION



## RAIL END TREATMENT FOR TYPE 5 AND 6 TERMINAL

## BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	140

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  ALUMINUM RAILING, TYPE L STRUCTURE NO. 016-0726 SHEET NO. 11 OF 21 SHEETS

All Posts shall be normal to parapet.

Provide 1-18" and 2-16" Aluminum

All joints in rail shall be spliced per detail.

All exposed rail ends shall be capped per

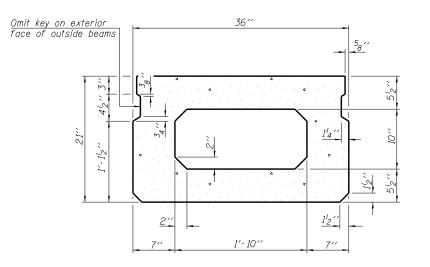
See sheet 6 of 21 for rail post spacing.

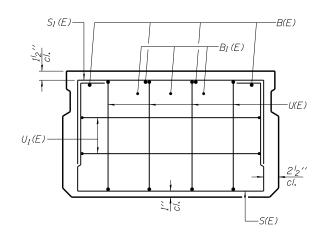
TOTAL SHEE NO. SECTION COUNTY 3519 66-B COOK 69 45 CONTRACT NO. 60X41

SECTION A-A

5-#4 S_I(E) bars, Top

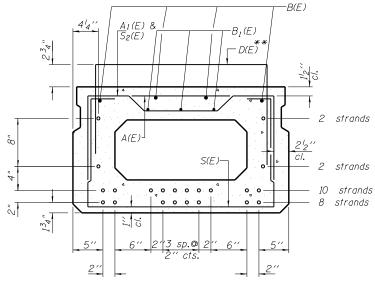
5-#4 S(E) bars, Bottom





VIEW C-C

# SECTION B-B (Showing dimensions)



## SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

## <u>BAR LIST</u> <u>ONE BEAM ONLY</u>

	(For information only)												
	Bar	No.	Size	Length	Shape								
	A(E)	15	#4	2'-7''									
	A1(E)	29	#4	2'-10''	}								
	B(E)	4	#5	47′-6"									
	$B_1(E)$	6	#4	24'-10"									
**	D(E)	65	#4	5′-1′′									
	S(E)	68	#4	6′-5′′	Г								
	S ₁ (E)	10	#4	4'-11''									
	$S_2(E)$	58	#4	5'-2"	]								
	U(E)	8	#5	4'-0''	П								
	$U_1(F)$	4	#4	5'-0"									

## Note: See sheet 13 of 21 for additional details and Bill of Material.

** Place #4 D(E) bars at 9" cts. in fascia beam only. D(E) bars included in the cost of PPC Deck Beams.

Bars indicated thus 3x2-#4 etc. indicates 3 lines of bars with 2 lengths per line.

## 14 (29 Total)-#4 A₁(E) bars at 1'-6" cts. Bottom of Top Slab 7 (15 Total)-#4 A(E) bars at 3'-0" cts., Top 3 spaces at 6" 1'-6' $\triangleright B$ $rac{1}{rac}C$ 0 3x2-#4 $B_I(E)$ bars full th, Bottom of Top #5 U(E) bars B(E) bars full le $\frac{1_2'}{cl}$ **€** 0___0 **↓** *c* 65-#4 D(E) bars at 9" cts. ** 47′-10½" End to End beam

## <u>PLAN VIEW</u>

Note: Spacing of S(E) and  $S_2(E)$  bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

29-#4 S₂(E) bars at 9" cts., Top

29-#4 S(E) bars at 9" cts., Bottom

MINIMUM BAR LAP #4 bar = 1'-11'' #5 bar = 2'-6''

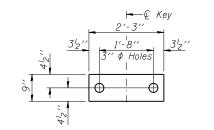
A A	С	С	u	r	а	t	
		GF	ROUP	, IN	C.		

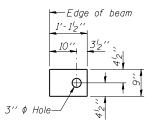
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	CHECKED - JMT	REVISED
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PLOT DATE = 3/16/2017	CHECKED - JMT	REVISED

Symmetrical

about €

21" x 36" PPC DECK BEAM	F.A.U RTE.	SECTION	
STRUCTURE NO. 016-0726	3519	66-B	
0111001011E 140: 010-0720			
SHEET NO. 12 OF 21 SHEETS		TI L INDIS	





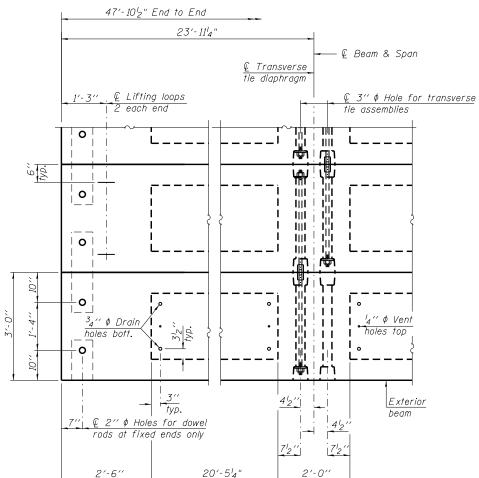
#### FABRIC BEARING PAD (Interior 24-required)

FABRIC BEARING PAD

(Exterior 4-required)

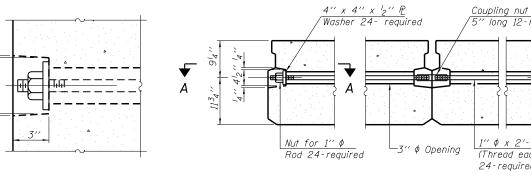
FIXED

Notes: All bearing pads shall be 1" thick.



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



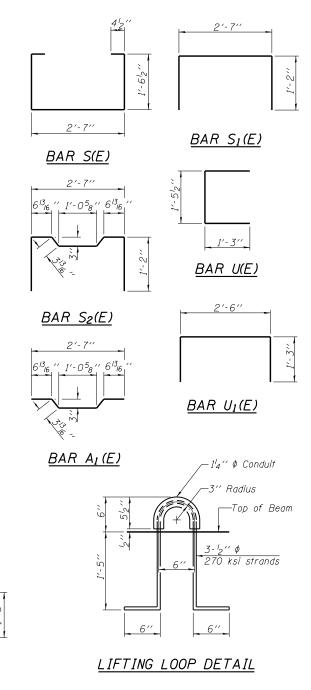
SECTION A-A

TYPICAL TRANSVERSE TIE ASSEMBLY

long 12-required

(Thread each end 4")

24-required



BILL OF MATERIAL

Precast Prestressed Concrete Sq. Ft. 1868 Deck Beams (21" depth)

#### NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be  $l_2^{\prime\prime}$  and the nominal cross-sectional area shall be 0.153 sq. in.

The I''  $\phi$  rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two  $^{l}_{8}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum  $2\frac{1}{2}$   $\phi$  lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Accurate

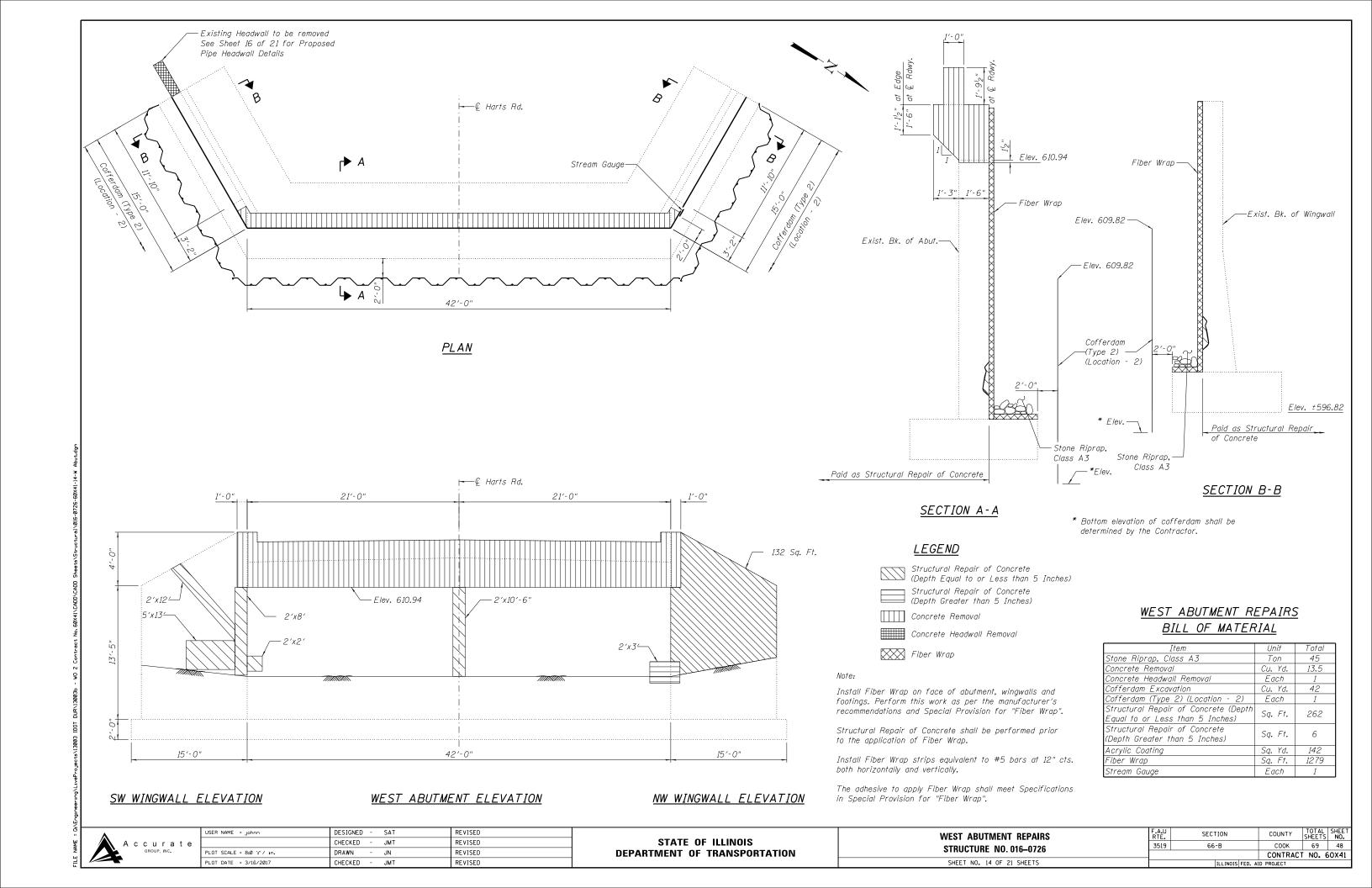
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	CHECKED - JMT	REVISED
PLOT SCALE = 0:2 ':" / in.	DRAWN - JN	REVISED
PLOT DATE = 3/16/2017	CHECKED - JMT	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

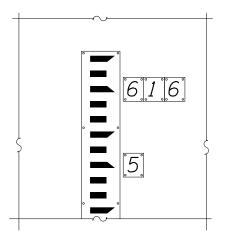
21"	 		-				AM 16–0	DETAILS 726	
	SHE	ЕΤ	NO.	. 13	0F	21	SHEE.	rs	

BAR D(E)

SECTION COUNTY COOK 69 47 3519 66-B CONTRACT NO. 60X41







DETAIL A

#### Note "A":

The gauge plates shall be porcelain enameled iron plate graduated in feet and tenths, unnumbered and  $3^l_2$ " wide. Gauge plates shall be "WaterMark" Style "E" or approved equivalent.

#### <u>Note "B":</u>

Each individual number plate should be a black numeral on a 2"x3" white porcelain enameled iron plate. Number plates shall be "Watermark" Style "E" or approved equivalent. Elevations shall be installed as shown.

#### <u>Notes:</u>

All plates shall be fastened directly to the wingwall with a  $l_4$ " diameter,  $l_2^{\prime}$ " long masonry screw with a hex washer head.

The Contractor must determine exact elevation of the Gauge Plates in the field and install Gauge Plates within a tolerance of  l_4 ".

Three digit elevations to be installed at the top of the gauge and at every elevation ending with 0. At all of the other whole elevations, place the last digit as shown in the example to the left.

See Special Provisions.

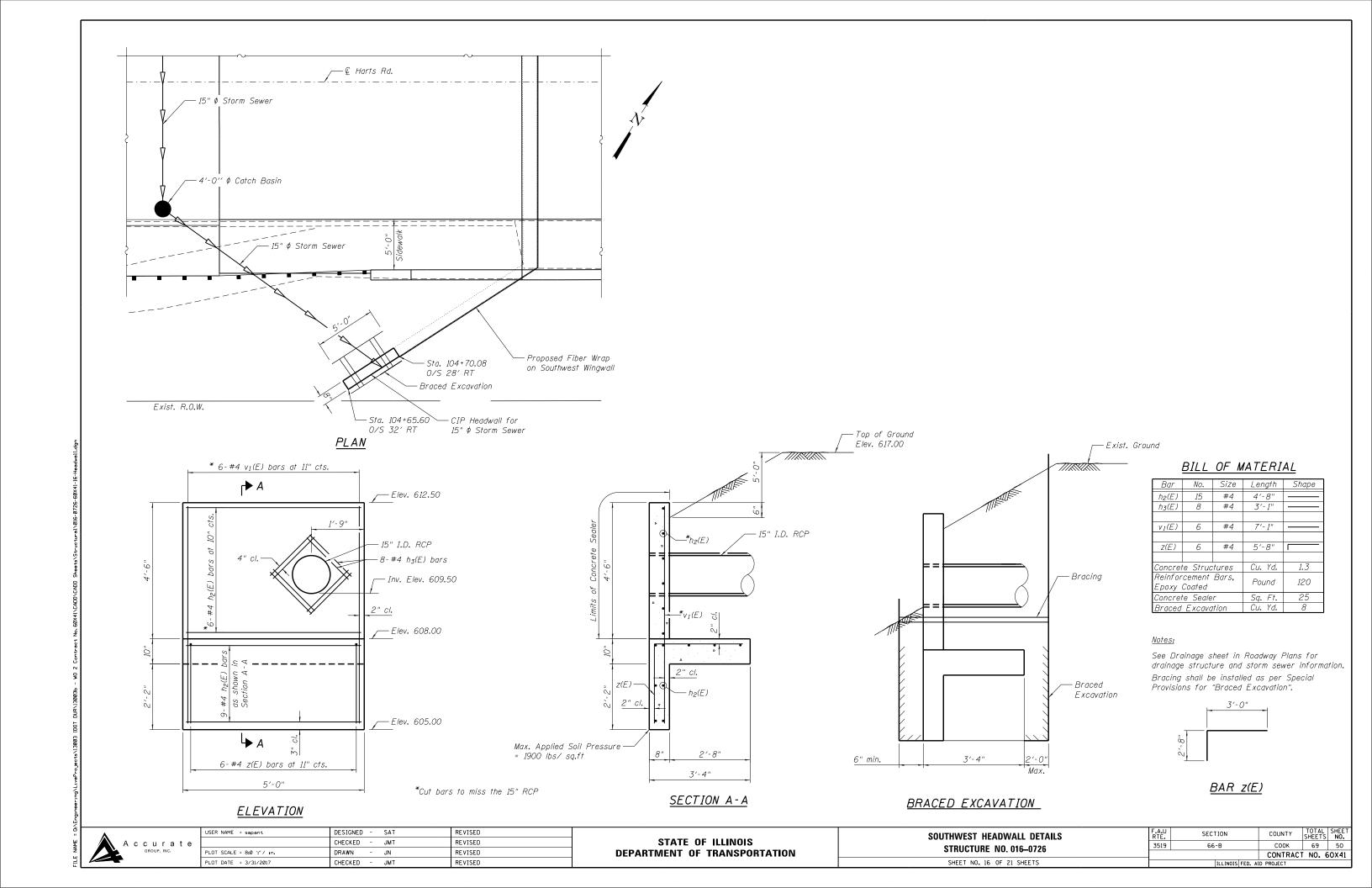
A	С		<b>U</b> ROUP			t	е	
		GF	ROUP	, IN	c.			

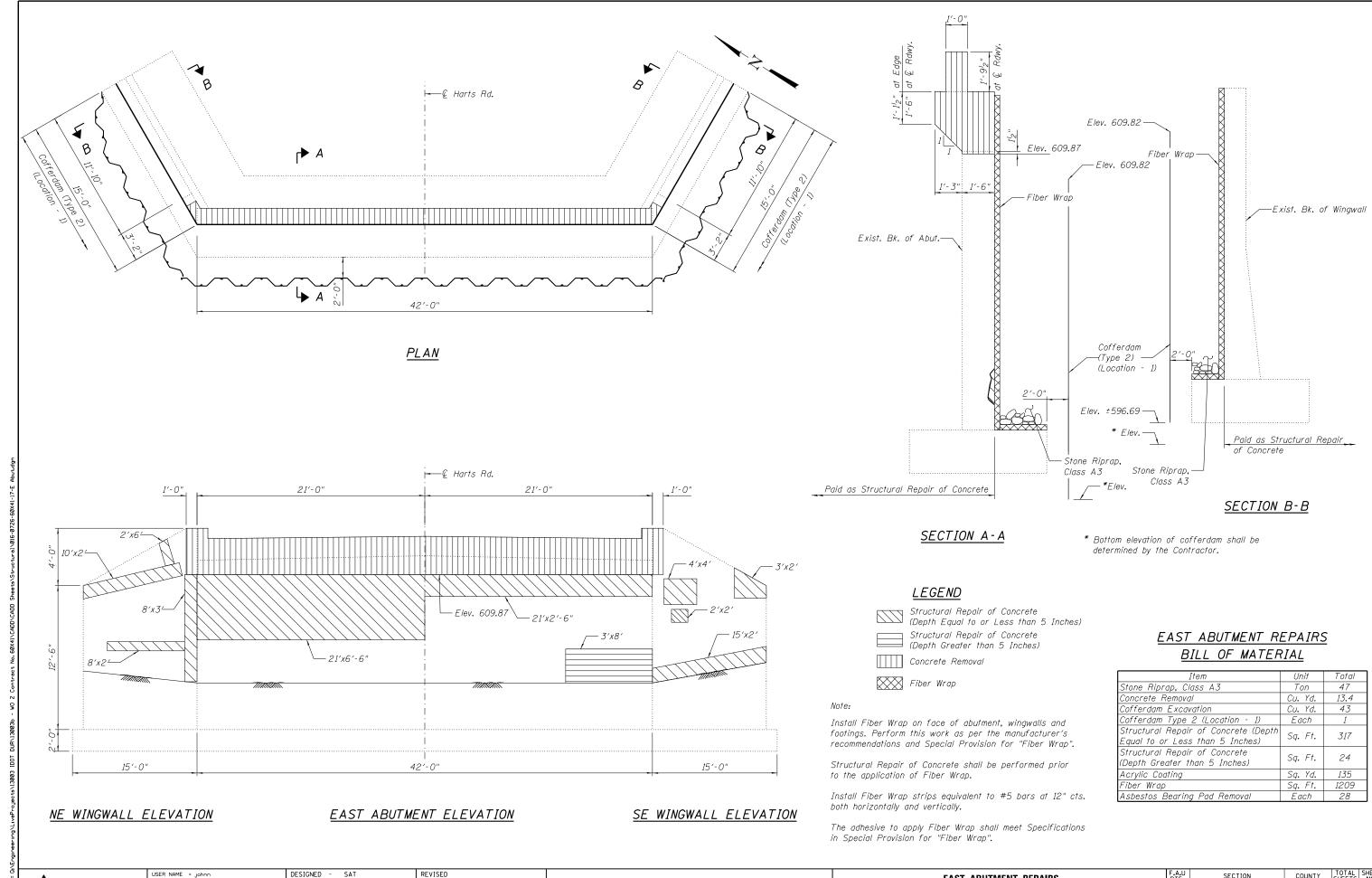
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHWEST WINGWALL STREAM STRUCTURE NO. 016-0726	GAUGE
SHEET NO. 15 OF 21 SHEETS	

F.A.U RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEE.
3519	66-B		соок	69	49	
				CONTRACT	NO. 6	50X41
		ILLINOIS	FED. A	D PROJECT		

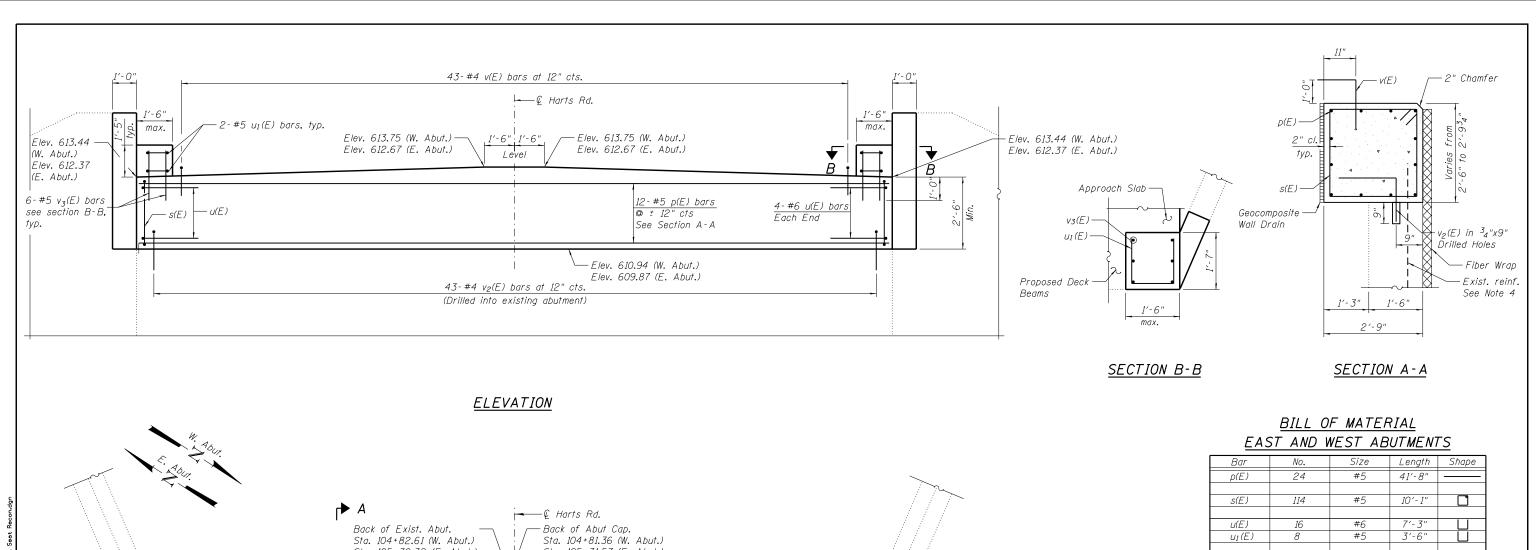




A c c u r a t e

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT REPAIRS
STRUCTURE NO. 016-0726
SHEET NO. 17 OF 21 SHEETS



Bar	No.	Size	Length	Shape
ρ(E)	24	#5	41'-8"	
s(E)	114	#5	10'-1"	
u(E)	16	#6	7′-3"	
u ₁ (E)	8	#5	3′-6"	
v(E)	86	#5	3′-11"	L
v ₂ (E)	86	#5	3′-5"	
ν3(E)	24	#5	2'-2"	
	Item		Unit	Total
Structure E.	xcavation		Cu. Yd.	90
Concrete Sti	ructures		Cu. Yd.	13.6
Reinforceme	nt Bars,		Pound	3.160
Epoxy Coate	d		Found	3,160
Geocomposit	e Wall Drain	Sq. Yd.	50	
Granular Ba	ckfill for Str	uctures	Cu. Yd.	90
Pipe Underd	rains for Str	uctures 4"	Foot	152
<u> </u>	•	•	•	



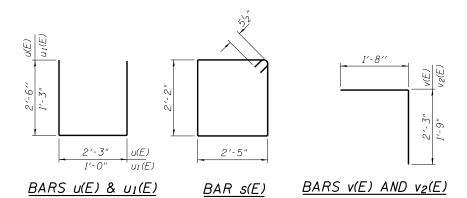
12 beam spaces at 3'-0" = 36'-0"

57-#5 s(E) bars at 9" cts.

Sta. 105+31.57 (E. Abut.)

Sta. 105+30.32 (E. Abut.)

**L** A



*u*(E) →

3'-0"

Beam →

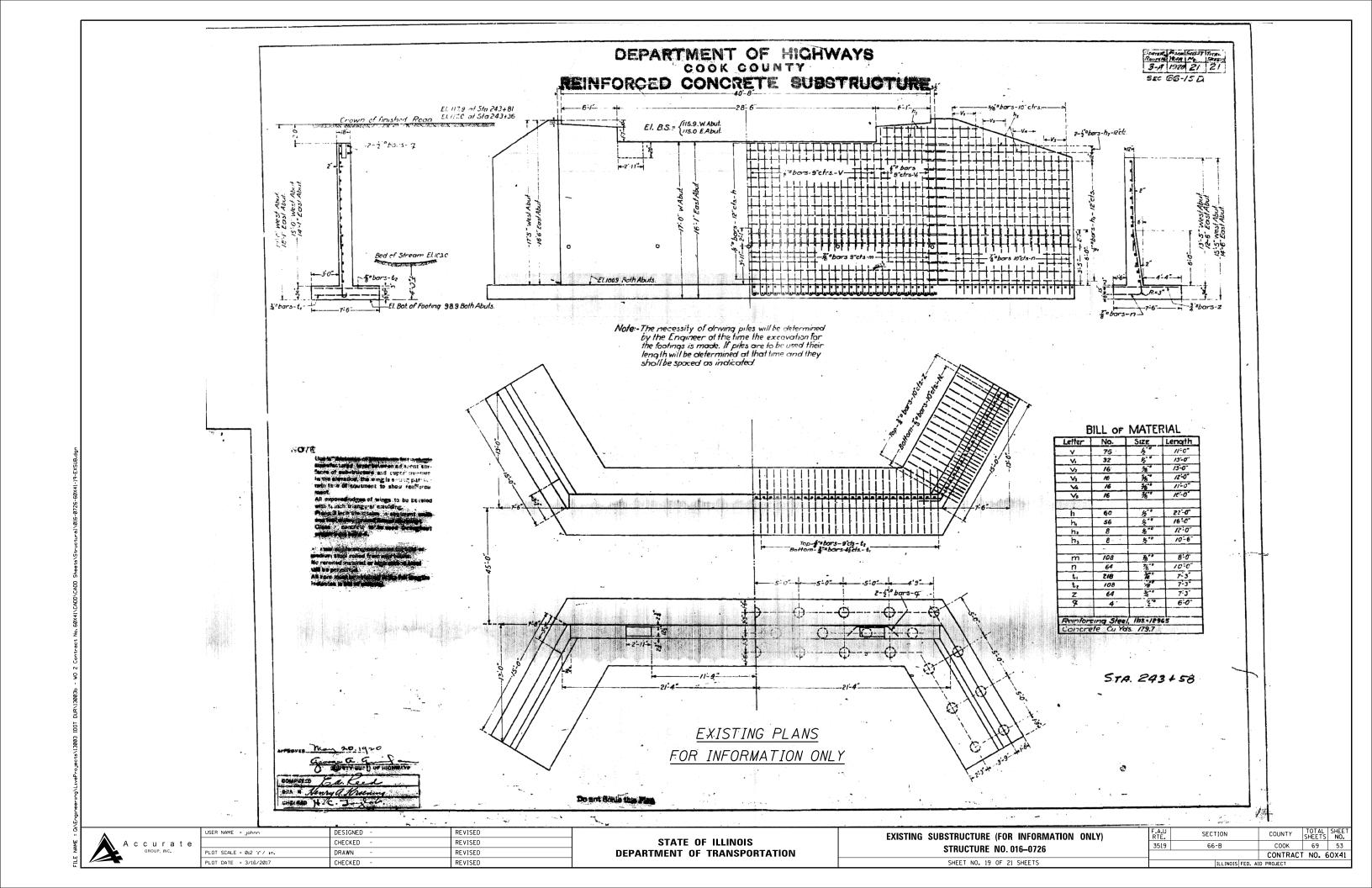
## NOTES:

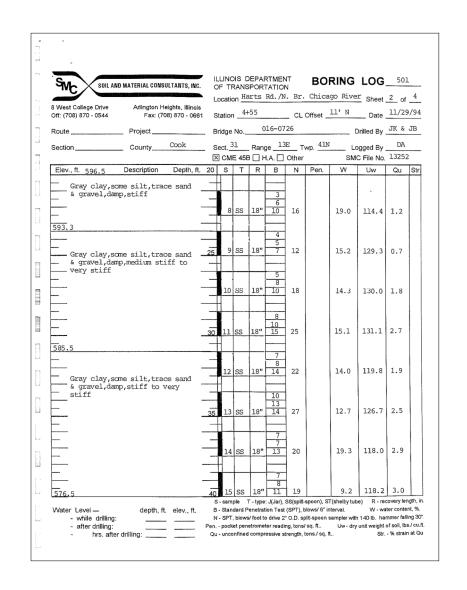
- Drill and grout  $v_2(E)$  bars according to section 584 of Standard Specifications. Cost included with cost of Reinforcement Bars, Epoxy Coated. See Sheet 14 and 17 of 21 for Fiber Wrap details.
- See Sheet 2 of 21 for Section Thru Abutment.
- Use of the existing reinforcement shall be determined 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.

٨	USER NAME = Johnn	DESIGNED - SAT	REVISED
Accurate		CHECKED - JMT	REVISED
GROUP, INC.	PLOT SCALE = 8:0 ':" / in.	DRAWN - JN	REVISED
	PLOT DATE = 3/16/2017	CHECKED - JMT	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  ABUTMENT SEAT RECONSTRUCTION STRUCTURE NO. 016-0726 SHEET NO. 18 OF 21 SHEETS

SECTION COUNTY COOK 69 52 3519 66-B CONTRACT NO. 60X41





Note: Boring logs taken in 1994.



USER NAME = Johnn	DESIGNED -	REVISED	
	CHECKED -	REVISED	
PLOT SCALE = 0:2 ':' / 10.	DRAWN - JN	REVISED	
PLOT DATE = 3/16/2017	CHECKED -	REVISED	

SOIL BORING LOG - I (FOR INFORMATION ONLY) STRUCTURE NO. 016-0726	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO 016-0726	3519	66-B	соок	69	54
STRUCTORE NO. 010-0720			CONTRACT	NO. 6	50X41
SHEET NO. 20 OF 21 SHEETS		TILINOIS FED AT	D. PROJECT		

Syc

8 West College Drive

ILLINOIS DEPARTMENT BORING LOG 501

Location Harts Rd./N. Br. Chicago River Sheet 3 of 4

15.1 | 118.2 | 3.1

15.4 | 118.5 | 3.7

15.7 | 117.7 | 3.2

20.2 | 110.0 | 2.1

120.5 2.0

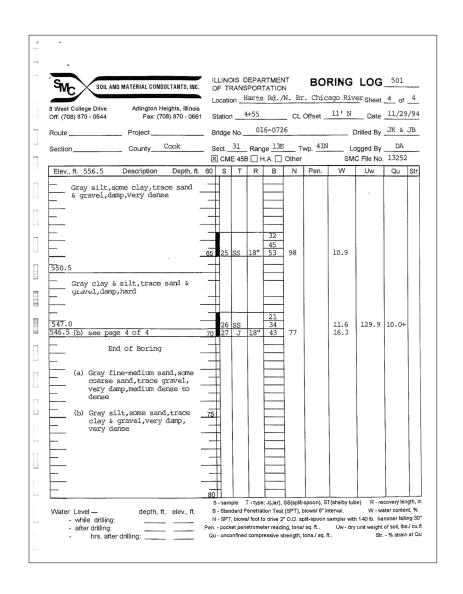
16.5

20.1

16.4

SOIL AND MATERIAL CONSULTANTS, INC. OF TRANSPORTATION

Arlington Heights, Illinois

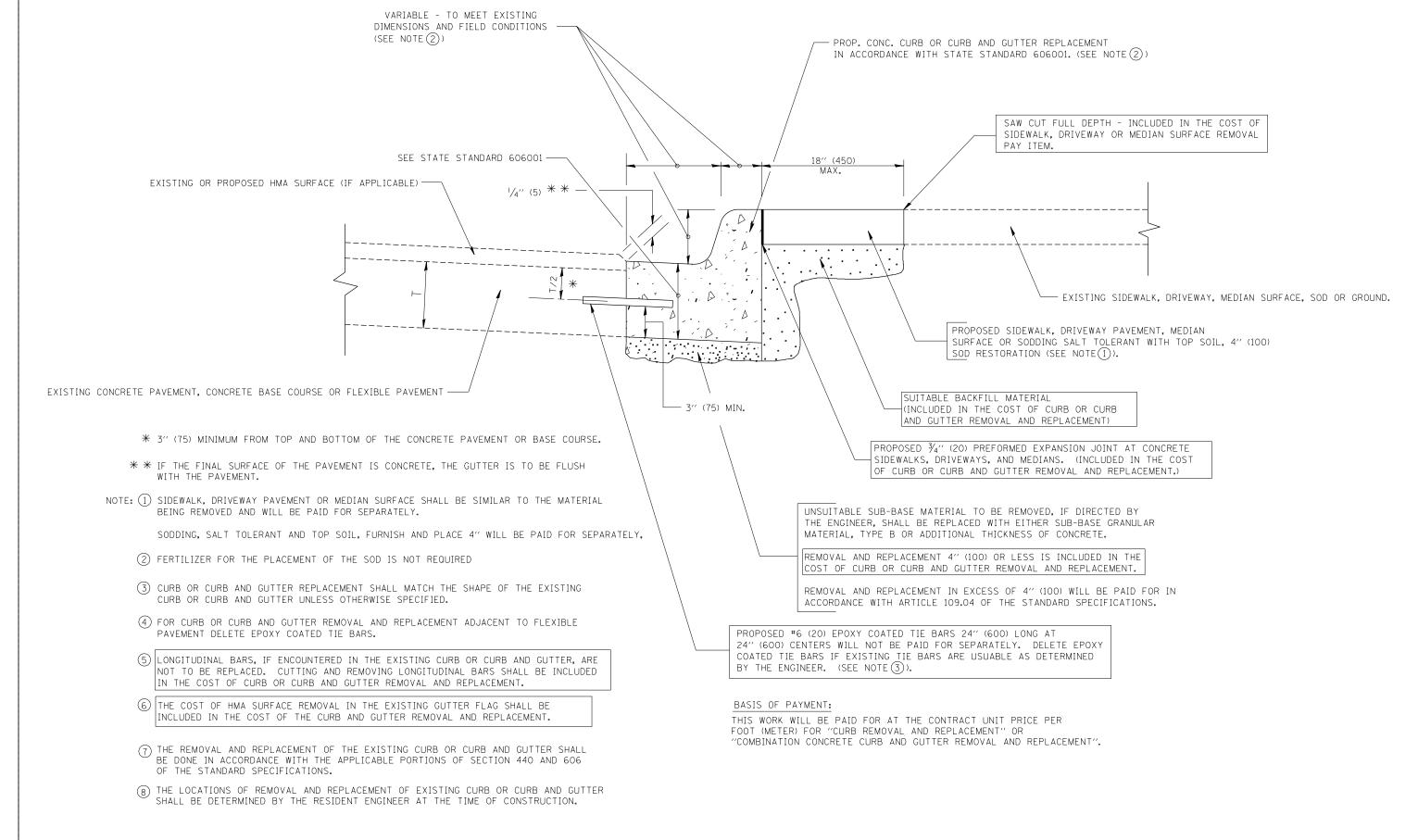


<u>Note:</u> Boring logs taken in 1994.



USER NAME = Johnn	DESIGNED -	REVISED	
	CHECKED -	REVISED	
PLOT SCALE = 0:2 ':" / 10.	DRAWN - JN	REVISED	
PLOT DATE = 3/16/2017	CHECKED -	REVISED	

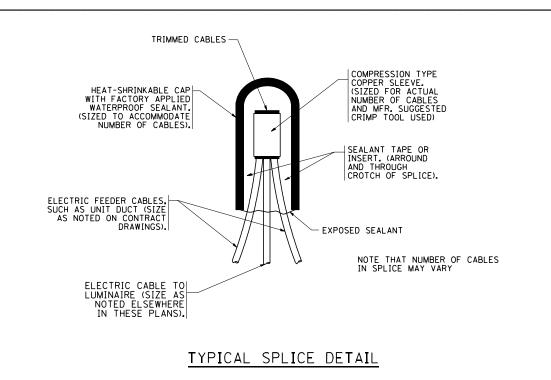
SOIL BORING LOG - II (FOR INFORMATION ONLY)	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE
STRUCTURE NO 016_0726	3519	66-B	соок	69	55
STRUCTURE NO. 016-0726			CONTRAC	NO.	60X4
,		TILINOIS EED AT	D PROJECT		

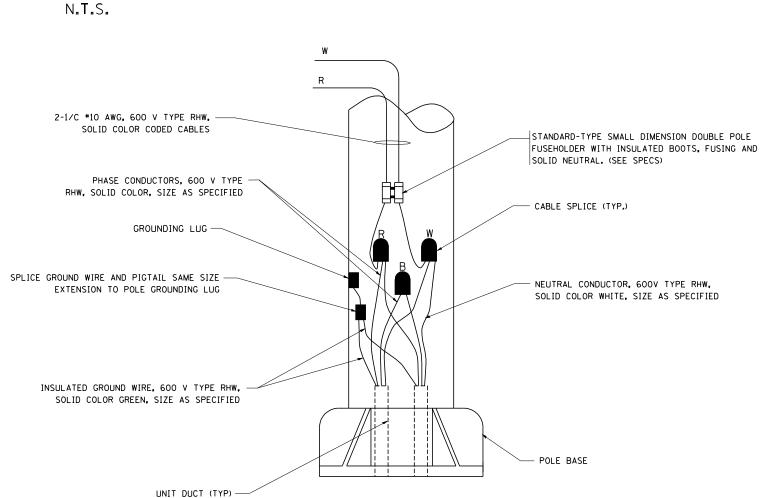


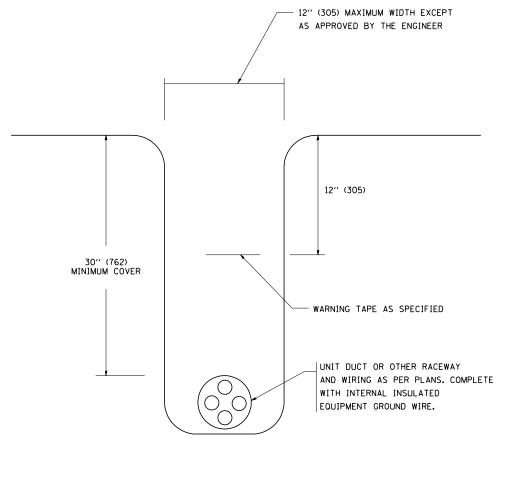
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME = USER	R NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	F.A.U. SECTION	COUNTY SHEET
c:\pw_work\pwidot\drivakosgn\d0108315\bd24.dgn	gn	DRAWN -	REVISED - A. ABBAS 03-21-9	STATE OF ILLINOIS		3519 66-B	COOK 69 56
PLOT	T SCALE = 50.000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 01-22-0	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT	BD600-06 (BD-24)	CONTRACT NO. 60X41
PLOT	T DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT





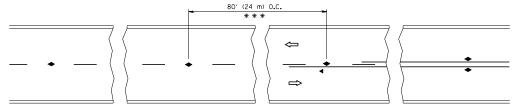


# TYPICAL WIRING IN TRENCH DETAIL N.T.S.

POLE WIRING DETAIL

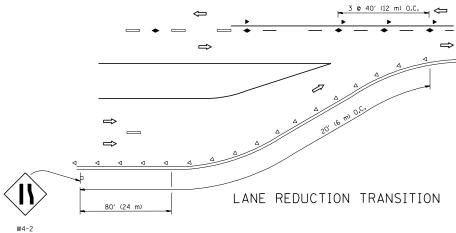
N.T.S.

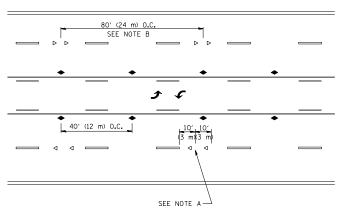
FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03		MISC. ELECTRICAL DETAILS	F.A.U. RTF	SECTION	COUNTY TOTAL	L SHEET
W:\diststd\22x34\be702.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		3519	66-B	COOK 69	57
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET A		BE-702	CONTRACT NO.	60X41
	PLOT DATE = 1/4/2008	DATE -	REVISED -				IOIS FED. AID PROJECT		



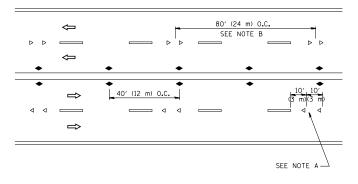
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

#### TWO-LANE/TWO-WAY

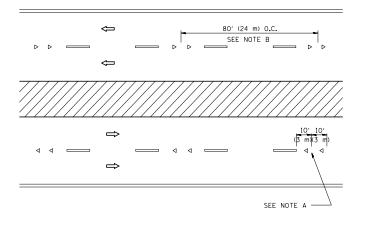




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

#### GENERAL NOTES

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

## LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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

#### SYMBOLS

---- YELLOW STRIPE

WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/0)
- ◆ TWO-WAY AMBER MARKER

## DESIGN NOTES

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

# # SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

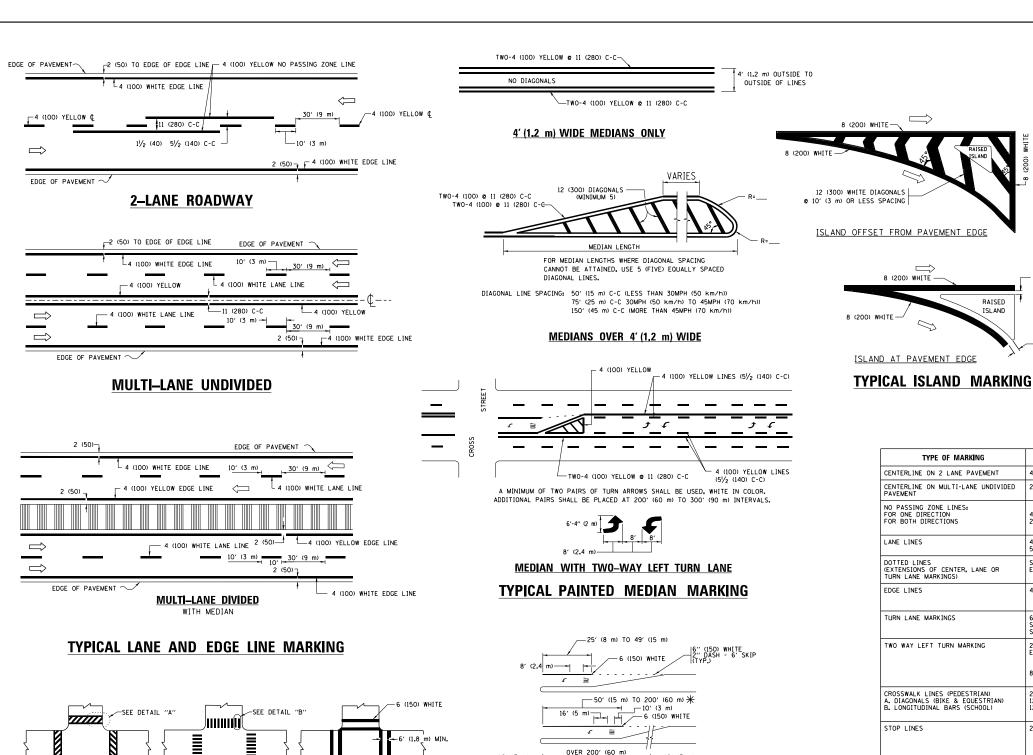
LEFT TURN

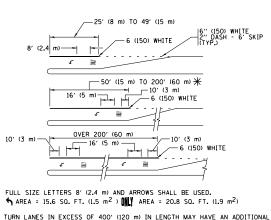
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = leyso	DESIGNED -	REVISED	-T. RAMMACHER	09-19-94
c:\pw_work\pwidot\leysa\d0108315\tc11.dgn		DRAWN -	REVISED	-T. RAMMACHER	03-12-99
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER	01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED	- C. JUCIUS	09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAISED R	EFLECTIVE		APPLICAT MARKERS	FIONS S (SNOW-PLOW	RESISTANT)
SCALE: NONE	SHEET NO.	1 OF 1	SHEETS	STA.	TO STA.





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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

# MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF DESIGNED - EVERS USER NAME = footemj REVISED -C. JUCIUS 09-09-0 w:\\ILØ84EBIDINTEG.illinoi nents\IDOT Offices\District 1\Projects\D taRAWM\CADData\CADsheets\tc13.dom REVISED C. JUCIUS 07-01-13 CHECKED REVISED C. JUCIUS 12-21-15 DATE REVISED -C. JUCTUS 04-12-16 PLOT DATE = 4/13/2016

TYPICAL CROSSWALK MARKING

2' (600)

DETAIL "B"

12 (300) WHITE

PEDESTRIAN

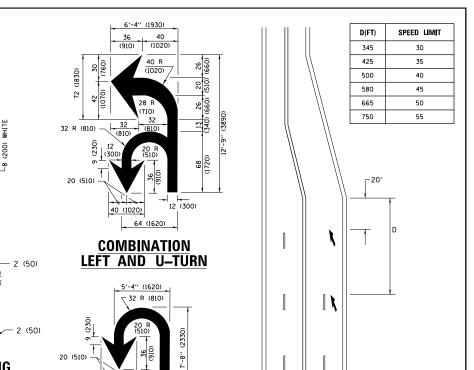
- 6 (150) WHITE

DETAIL "A"

BICYCLE & EQUESTRIAN

**DEPARTMENT OF TRANSPORTATION** 

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001. SECTION COUNTY DISTRICT ONE COOK 69 59 3519 66-B TYPICAL PAVEMENT MARKINGS TC-13 CONTRACT NO. 60X41 OF 1 SHEETS STA. TO STA. SHEET 1



## LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 <b>Q</b> 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EOUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2' (500) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERMISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R":3.6 SQ, FT. (0.33 m²) EACH "X":54.0 SQ, FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8′)	12 (300) <b>@</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

STATE OF ILLINOIS

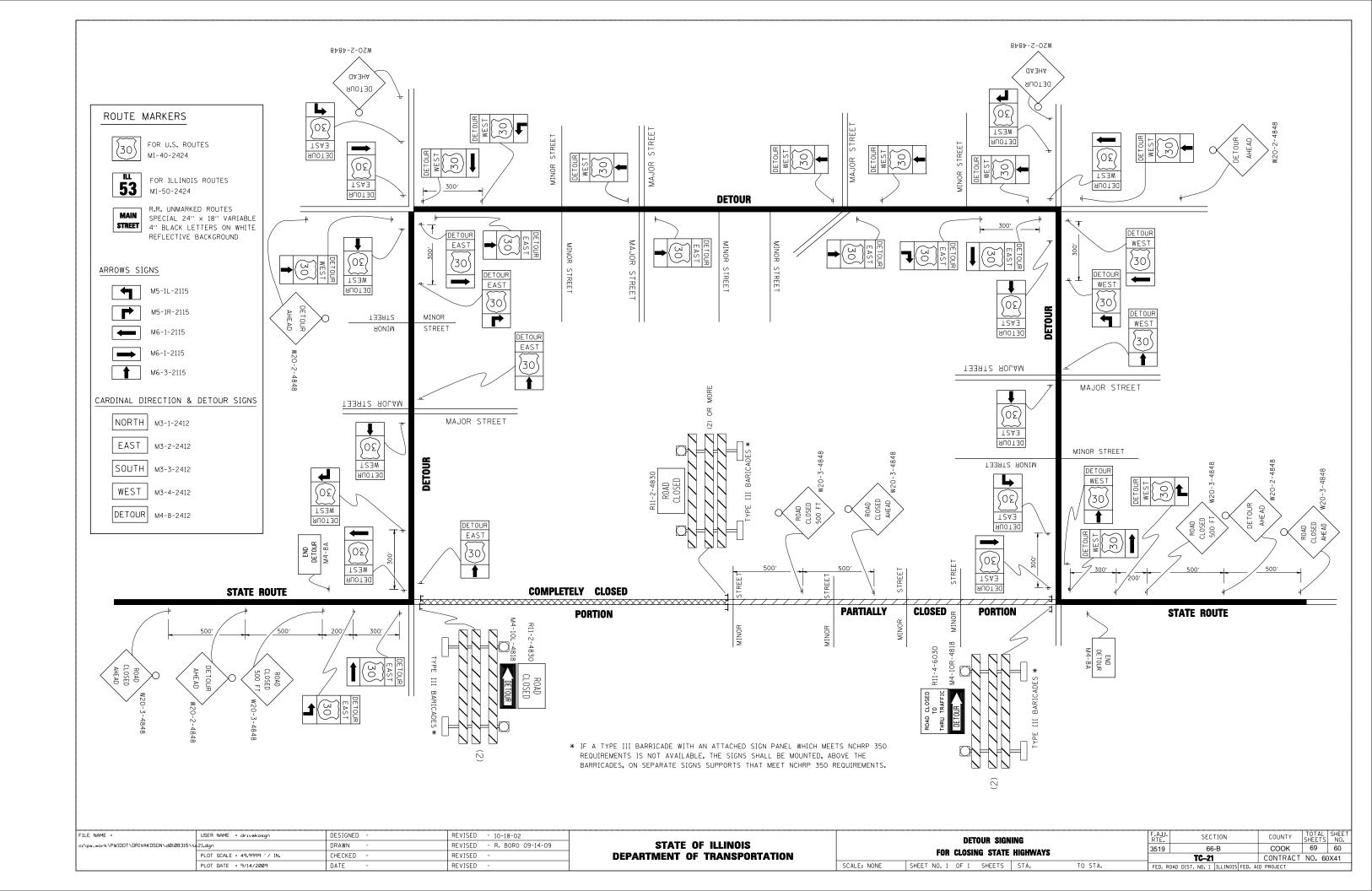
8 (200) WHITE -

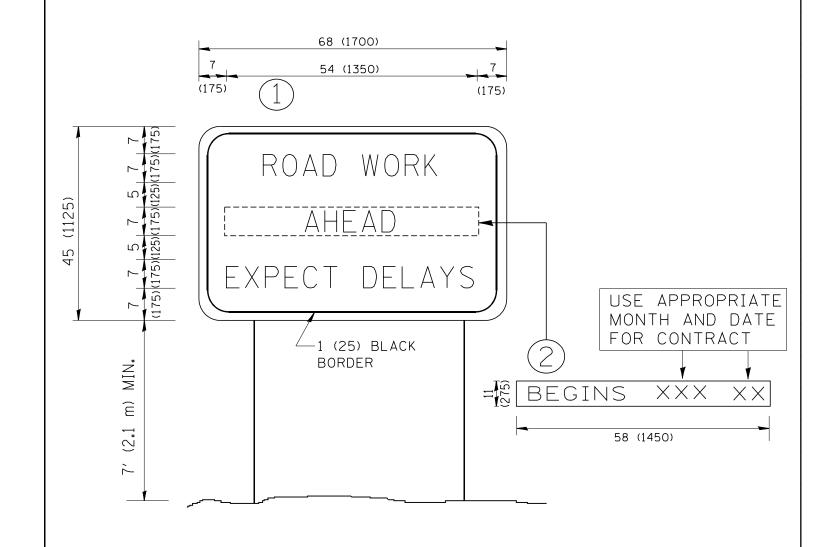
RAISED

ISLAND

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO

SCALE: NONE





## NOTES:

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

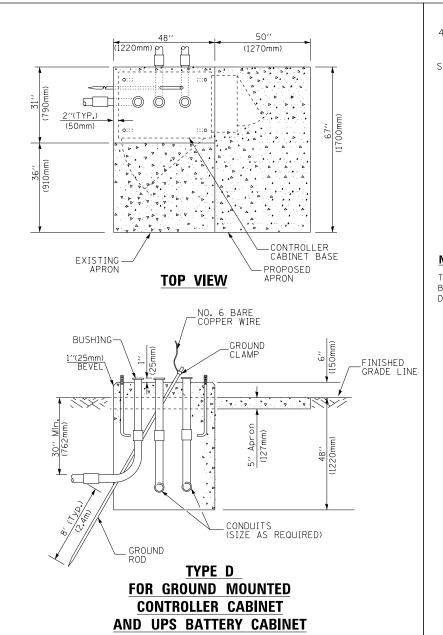
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

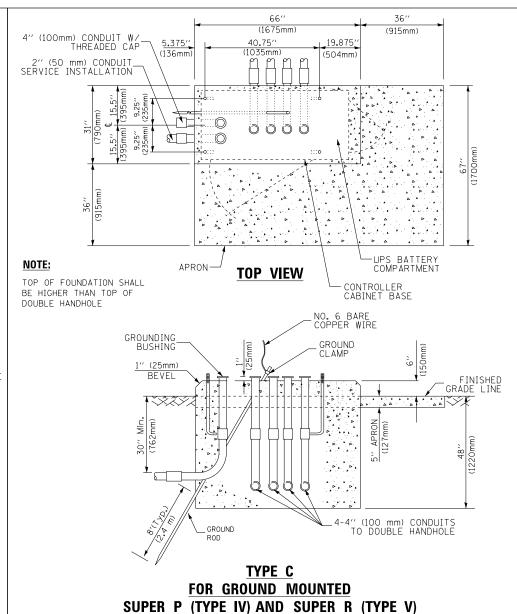
FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.U. RTF.	SECTION	COUNTY	TOTAL S	EET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				3519	66-B	COOK	69	<u>۔۔۔۔</u> 1ز
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEL ALLINELLI OL LIBATOLOLIALIOLI	INFORMATION SIGN				TC-22	CONTRACT	NO. 60X4	-1
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAL	D DIST. NO. 1 ILLINOIS FED.	ID PROJECT		_

# TRAFFIC SIGNAL LEGEND

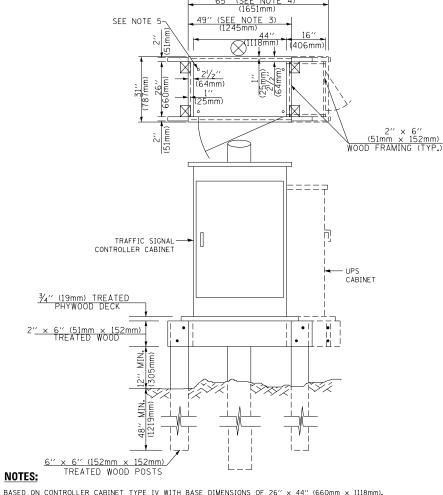
(NOT TO SCALE)

March   10 Per   10   10   10   10   10   10   10   1					(1101 10 00/122)				
### CASES   10   10   10   10   10   10   10   1	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	LTEM	EXISTING	PROPOSED
Marie 1	CONTROLLER CABINET							RR	RR
Company   Comp	COMMUNICATION CABINET	ECC	СС						G G
March   Marc	MASTER CONTROLLER	EMC	MC	-SQUARE	H (H)	H (B)			<b>4</b> G <b>4</b> G ₽
RECORD CONTROL AND THE PROPERTY OF THE PROPERT	MASTER MASTER CONTROLLER	EMMC	ммс	DOUBLE HANDHOLE			CICNAL LIFAD WITH DACKDLATE		'
RECORD CONTROL AND THE PROPERTY OF THE PROPERT	UNINTERRUPTABLE POWER SUPPLY	<b>4</b>	lacksquare	JUNCTION BOX		0	-(P) PROGRAMMABLE SIGNAL HEAD		R R Y
RECORD CONTROL AND THE PROPERTY OF THE PROPERT	SERVICE INSTALLATION	-D- ^P	- <b>■</b> -P	RAILROAD CANTILEVER MAST ARM	X <del>OX X</del> X	X <del>eX X</del>			4Y 4Y 4Y
Married School Control   Married School Control Control   Married School Control Control Control   Married School Control Co				RAILROAD FLASHING SIGNAL	X⊖X	X <del>•</del> X		P RB	P RB
AND ACCOUNT OF THE NAME HAVE ASSESSED AND POLICY OF THE NAME HAVE AND POLICY O	-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	$ \mathbf{X}^{G} \mathbf{X}^{GM} $	RAILROAD CROSSING GATE	₹0₹>	X <del>• X-</del>	PEDESTRIAN SIGNAL HEAD		•
HARMONIA MASSAGE - NO POLE  THE COMMINION OF THE POLE  THE POL	FELEPHONE CONNECTION	ET	T	RAILROAD CROSSBUCK		*		<b>A</b>	Ŕ
SAMAPHICS TRUE.  SAMAPHICS STATE AND FOLK WAS THE SECOND TO BE CONTROLLED	TEEL MAST ARM ASSEMBLY AND POLE	O	•——	RAILROAD CONTROLLER CABINET		⋗∢		C S	<b>₽</b> C
NUMBER OF CONDUCTORS, RECTOR STREAM THAN MINE S STREAM THAN S STREAM THA	LUMINUM MAST ARM ASSEMBLY AND POLE					<del></del> -			
SAND BARREL MONATED - TEMPORARY  OF PURE  OF PURE  OF PRINCE THEN  INTERSECTION TIEN  INT	TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH LUMINAIRE	o:¤—	•*						
ODD POLE  OF SERVICE TIEN  RESONAL READ OF TICKET NO. 6 SOLD COPPER NOTECHNICALLY NO. 6 SOLD COPPER NOTECHNICAL NO. 6 SOLD COPPER NOTECHNICAL NO. 6 SOLD COPPE	GIGNAL POST (BM) BARREL MOUNTED - TEMPORARY	0	<ul> <li>● BM</li> </ul>	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	<u>    (5)                                </u>	<del>(5)</del>
REVIEWE 1 STATE OF THE STATE OF		⊗	Ω	INTERSECTION ITEM	I	IP			_
FELCONAL HEAD THE BACKFLATE  ARADON ITEM  COMAL HEAD OFFICIALLY PROGRAMMED  ARADON THE SOLAR PORTHOD  COMAL HEAD OFFICIALLY PROGRAMMED  ARADON THE SOLAR PORTHOD  COMAL HEAD OFFICIALLY PROGRAMMED  ARADON THE SOLAR PORTHOD  COMAL HEAD OFFICIALLY PROGRAMMED  COMAL HEAD OFFICIALLY PROGRAMMED  COMAL HEAD OFFICIALLY PROGRAMMED  COMAL HEAD  ARADON THE SOLAR PORTHOD  COMAL HEAD  ARABON THE SOLAR PORTHOD  ARABON THE SOLAR PORTHOD  COMAL HEAD  ARABON THE SOLAR PORTHOD  ARABON THE SOLAR PORTHOD  COMAL HEAD  ARABON THE SOLAR PORTHOD						R		(1*6)	(1#6)
CONTROLLER AND WITH BACKPLATE  150  CONTROLLER CARNET AND FOUNDATION TO BE REMOVED FOUNDATION TO	IGNAL HEAD								
MAST ARM POLE AND STICALLY PROGRAMMED	IGNAL HEAD WITH BACKPLATE	+6>	+-						
FOUNDATION TO BE REMOVED  FIRET POWERED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED. SHELDED  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 18, 3 PAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 28, 27, 125. MAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 28, 27, 125. MAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 28, 27, 125. MAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 28, 27, 125. MAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 28, 27, 125. MAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 28, 27, 125. MAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 28, 27, 125. MAIR TRISTED.  COPPER INTERCONNECT CABLE.  NO. 28, 27, 125. MAIR TRISTED.  COPPER INTERCONNECT CABLE.  COPPER INTERCONNECT CABLE.  COPPER INTERCONNECT CABLE.  COPPER INTERCONNECT CABLE.  COPPER INTERCON.  COPPER INTERCONNECT CABLE.  COPPER INTERCONNECT CABLE.  COPPER INTERCONNECT C	IGNAL HEAD OPTICALLY PROGRAMMED	P + P	→ P + P			RCF			
SIGNAL POST AND FOLIABOTION TO BE REMOVED FOLIABOTION TO THE REMOVED TO THE REMOVED FOLIABOTION TO THE REMOVED TO	LASHER INSTALLATION	o-F o-FS	F FS FS			RMF			(v)
DETECTOR LOOP, TYPE I	(FS) SOLAR POWERED					RPF		<b>6*18</b>	<del></del>
PREFORMED DETECTOR LOOP  PREFORMED DETECTOR  SAMPLING (SYSTEM) DETECTOR  GROUND ROD  -(C) CONTROLLER -(MM ASST ARM -(P) POST -(S) SERVICE  PROFITE LOOP  PREFORMED DETECTOR  PROFITE LOOP  PREFORMED DETECTOR  SAMPLING (SYSTEM) DETECTOR  SO SAMPLING (SYS	EDESTRIAN SIGNAL HEAD	-0	-1				-NO. 62.5/125, MM12F		— <u>(12F)</u> —
ADAR DETECTION SENSOR  RU  SAMPLING (SYSTEM) DETECTOR  SO  INTERSECTION AND SAMPLING (SYSTEM) DETECTOR  ADAR/VIDEO DETECTION ZONE  ANA, TILT, ZOOM (PTZ) CAMERA  FIZE  MERGENCY VEHICLE LIGHT DETECTOR  ONFIMATION BEACON  OH  OH  OH  OH  OH  OH  OH  OH  OH	EDESTRIAN PUSH BUTTON (APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP	[P] (P)	P P		24F	
ADAR/VIDEO DETECTION ZONE	ADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	$\begin{bmatrix} \overline{s} \end{bmatrix}$ $(\widehat{s})$	s s		—(36F)—	—(36F)—
ADAR/VIDEO DETECTION ZONE	IDEO DETECTION CAMERA		V			IS (IS)			
WIRELESS DETECTOR SENSOR  WIRELESS POINT  WIRELESS NTERCONNECT  OHH  WIRELESS DETECTOR SENSOR  W	ADAR/VIDEO DETECTION ZONE				[0s] (0s)	os os	-(C) CONTROLLER	T T T T	$\stackrel{:}{\uparrow}^{C} \stackrel{:}{\uparrow}^{M} \stackrel{:}{\downarrow}^{P} \stackrel{:}{\uparrow}^{S}$
ONFIMATION BEACON  OHIT	AN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ				-(P) POST		
IRELESS INTERCONNECT O-HH	MERGENCY VEHICLE LIGHT DETECTOR	$\bowtie$	<b>~</b>	WIRELESS ACCESS POINT					
	ONFIMATION BEACON	<b>○</b> —()	<b>⊷</b>						
IRELESS INTERCONNECT RADIO REPEATER ERR RR	TRELESS INTERCONNECT	<b>⊶</b> + <del>   </del>	•·· <del>   </del>						
	/IRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
	NAME = USER NAME = leyso				ATE OF ILLINOIS		DISTRICT ONE	NIE.	
	PLOT SCALE = 50.0000 '/					ST	ANDARD TRAFFIC SIGNAL DESIGN DETAILS	3519 66-B	COOK 69
DRAWN - IP REVISED - STATE OF ILLINOIS PLOT SCALE = 50,0000 // In. CHECKED - LP REVISED - DEPARTMENT OF TRANSPORTATION  STANDARD TRAFFIC SIGNAL DESIGN DETAILS  STANDARD TRAFFIC SIGNAL DESIGN DETAILS  TS_05 CONTRACT NO. 60	PLOT DATE = 9/29/2016	DATE -	- 9/29/2016 REVISED	-		SCALE: NONE	SHEET 1 OF 7 SHEETS STA. TO STA.		LINOIS FED. AID PROJECT





**CONTROLLER CABINETS** 



- 1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

## TEMPORARY SIGNAL CONTROLLER **WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

#### **VERTICAL CABLE LENGTH**

## **CABLE SLACK**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0'' (1.2
TYPE C - CONTROLLER W/ UPS	4'-0'' (1.2r
TYPE D - CONTROLLER	4'-0'' (1.2r
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0'' (1.2r

## **DEPTH OF FOUNDATION**

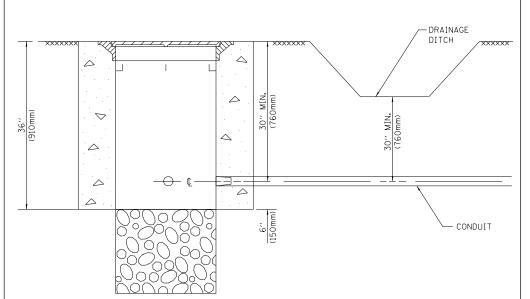
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6'' (4.1 m)	30'' (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 50′ (15.2 m) and up to 55′ (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

#### NOTES:

- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Ou) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For mast arm assemblies with dual arms refer to state standard 878001..

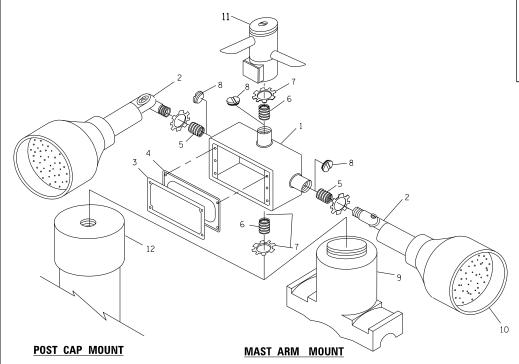
## DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = footemj	DESIGNED -	DAG	REVISED -	DAG 1-1-14			DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
c:\pw_work\pwidot\footemj\d0108315\ts05.	73	DRAWN -	BCK	REVISED -		STATE OF ILLINOIS		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		66-B	соок	69	63
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	DAD	REVISED -		DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS-05	CONTRACT	T NO. 60	X41
	PLOT DATE = 1/13/2014	DATE -	10-28-09	REVISED -			SCALE: NONE	SHEET NO. 5 OF 7 SHEETS   STA. TO STA.	FED. F	ROAD DIST, NO. 1   ILLINOIS FED. A	ID PROJECT		



- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

## HANDHOLE WITH MINIMUM CONDUIT DEPTH



# 19.875" 5.375" 40.75" (136mm) (1035mm) (504mm PROPOSED -APRON -CONTROLLER CABINET BASE **TOP VIEW** NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING -_GROUND CLAMP / EXISTING ANCHOR BOLTS FINISHED GRADE LINE 1''(25mm) BEVEL -EXISTING CONDUITS EXISTING GROUND ROD

(1675mm)

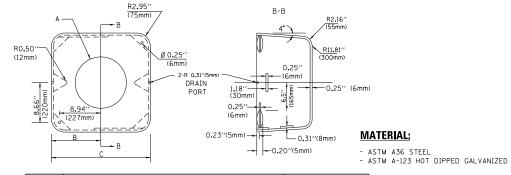
(915mm)

## MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾′′(19 mm) CLOSE NIPPLE
7	¾4′′(19 mm) LOCKNUT
8	$\frac{3}{4}$ "(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

#### NOTES:

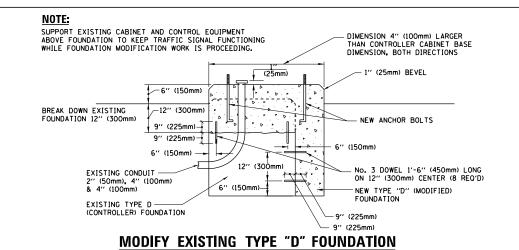
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP. EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

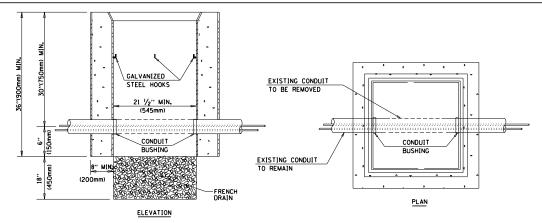


Α	В	ВС		WEIGHT
VARIES	9.5′′(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21 <b>.</b> 5"(546mm)	7'' (178mm) - 12'' (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5''(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

#### **SHROUD**

- 1. 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.





#### NOTES:

SCALE: NONE

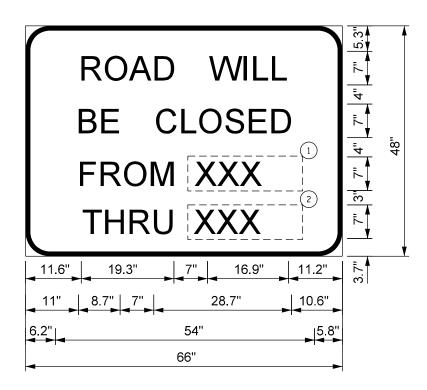
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

### HANDHOLE TO INTERCEPT EXISTING CONDUIT

#### DAG 1-1-14 FILE NAME : USER NAME = footem DESIGNED -REVISED c:\pw_work\pwidot\footemj\d0108315\ts05 DRAWN BCK REVISED CHECKED DAD REVISED PLOT DATE = 1/13/2014 DATE 10-28-09 REVISED

#### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		DIS	TRICT ON	IE .			F.A.U. RTE.	SECTION	COUNTY TOTAL SHEE SHEETS NO.		
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS							66-B	COOK	69	64
								TS-05	CONTRACT	NO. 60	X41
SHEET NO. 6 OF 7 SHEETS STA. TO STA.							FED. RO	DAD DIST. NO. 1   ILLINOIS FED. A	ID PROJECT		



- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANELS 1 AND 2 IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.
- SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 4. ONE SIGN ASSEMBLY EQUALS 27.3 SQ. FT.
- EACH SIGN ASSEMBLY SHALL BE PAID FOR AS "TEMPORARY INFORMATION SIGNING".

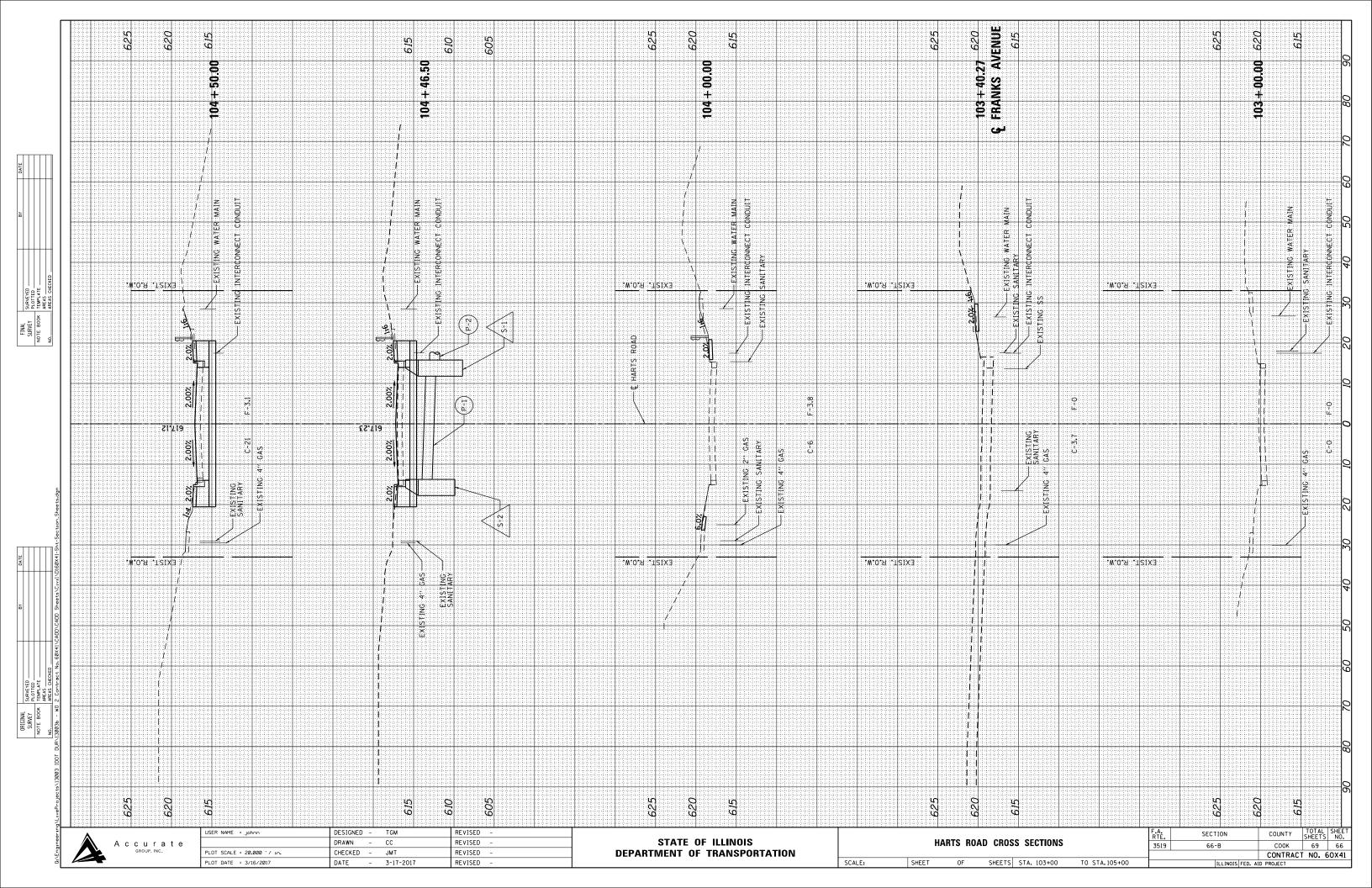
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		GF	ROUF	, IN	C.	

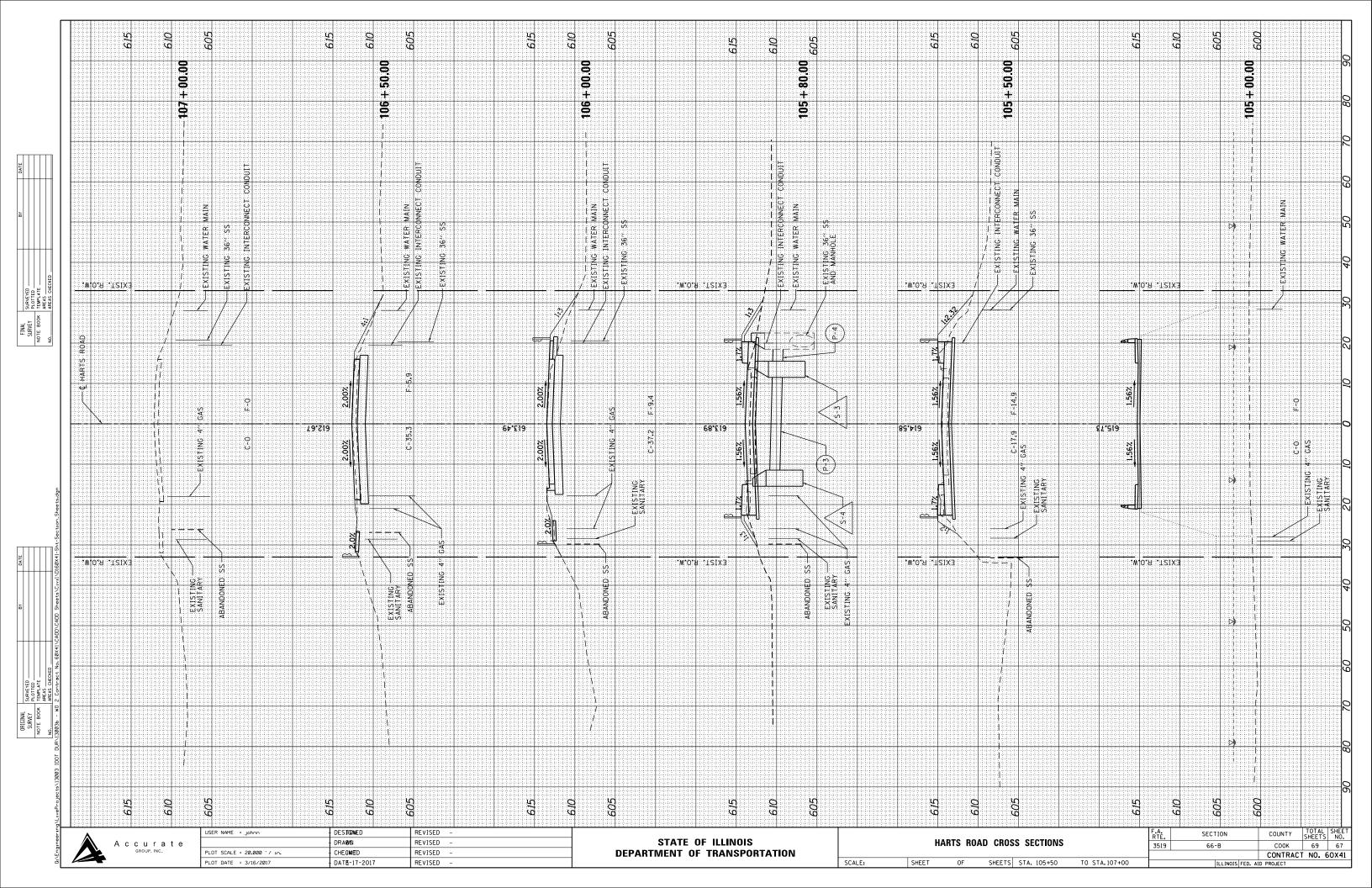
T	USER NAME = johnn	DESIGNED	-	JMT	REVISED -	
		DRAWN	-	CC	REVISED -	ı
	PLOT SCALE = 20.0000 ' / in.	CHECKED	-	TGM	REVISED -	ı
	PLOT DATE = 3/16/2017	DATE	-	3-17-2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

ARTERIAL ROAD INFORMATION SIGN FOR ROADS TO BE FULLY CLOSED AND DETOURED				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHI		
				3519	66-B	соок	69	6		
1011	IIOADS IO	DL	TOLLI OLO	JLD A	ND DETOUNED			CONTRACT	NO.	60X
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT			





019 + 46.00 299 + 56.00299 + 50.00NOTE: AREAS OF THE CABIONS SHOWN IN EACH SE FINAL SURVEYED SURVEYED OF OTTED NOTE BOOK TEMPLATE AREAS ONECKED. CHICAGO RIVER b) \ GABION IS 3' WIDE (TOTAL VOLUME NOT INCLUDED IN AREA ABOVE. 620 019 TGM DESIGNED -REVISED SECTION CC STATE OF ILLINOIS N. BRANCH CHICAGO RIVER CROSS SECTIONS Accurate DRAWN REVISED 3519 **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 20.000 '/ in. CHECKED -JMT REVISED - 3-17-2017 REVISED SCALE: SHEET OF SHEETS STA. 299+46 TO STA.299+56

