

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	2Y-1W	WINNEBAGO	69	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 64L90	

FOR INDEX OF SHEETS & HIGHWAY STANDARDS, SEE SHEET NO. 2

06-15-2018 LETTING ITEM 029

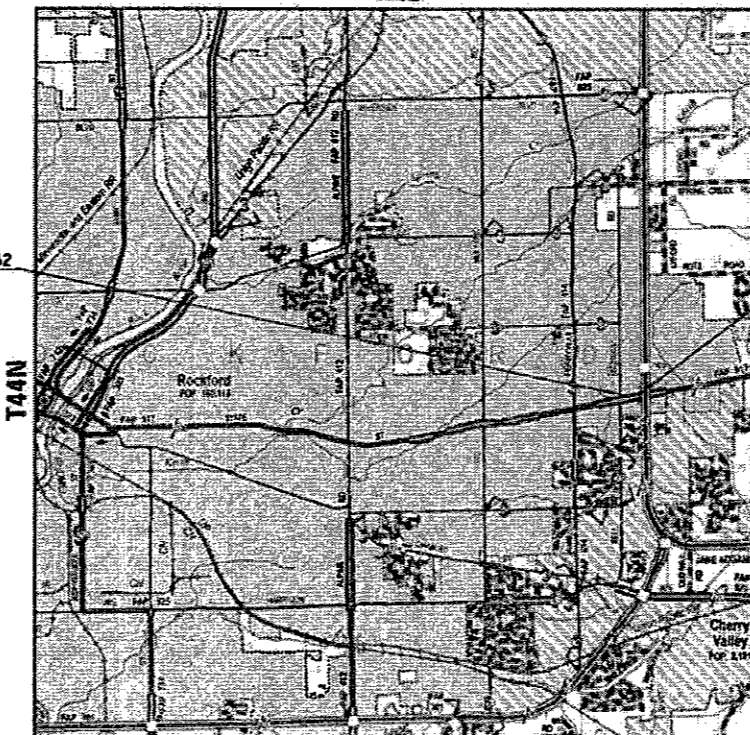
DESIGN DESIGNATION - 4255(40) ARTERIAL 5.57 (PCC-20)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

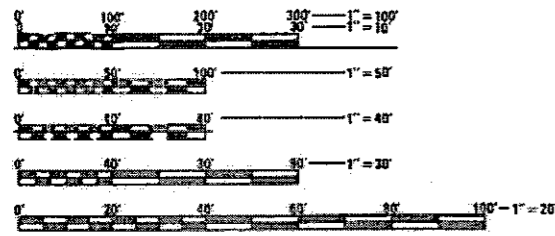
FAP ROUTE 517 (US BUS 20)
SECTION (2Y-1)W
PROJECT NHPP-F9K4(025)
WINNEBAGO COUNTY
AUXILIARY LANE ADDITION
WESTBOUND US BUS 20 - EAST STATE STREET
BELL SCHOOL ROAD TO THE I-90 EXIT RAMP IN ROCKFORD
C-92-065-17

D-92-113-16



IMPROVEMENT BEGINS STA 665+32
PROJECT BEGINS STA 665+46

IMPROVEMENT ENDS STA 676+80
PROJECT ENDS STA 676+60



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

PROJECT MANAGER: ROB BATES
815-284-5464
PROJECT ENGINEER: MAT DOBIE
CONSULTANT SERVICES: ERIC HENKEL
217-384-0505

CONTRACT NO. 64L90

TOWNSHIP: ROCKFORD SECTION: 23

GROSS LENGTH = 1114 FT. = 0.21 MI.
NET LENGTH = 1114 FT. = 0.21 MI.

ESCA
CONSULTANTS, INC.
JOB NO. 1140.13



EXPIRES 11-30-19
[Signature]
SIGNATURE
03-15-18
DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 16, 2018

[Signature] REGION TWO ENGINEER

May 11, 2018
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

May 18, 2018
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

- THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTH MOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1A. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPES.
- FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING OR SODDING.
- ALL "AGGREGATE SUBGRADE IMPROVEMENT" (SECTION 303), SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES 311.04, 311.05, 311.05(A), 311.06, AND 311.07. ALL AGGREGATE SUBGRADE THICKNESSES EQUAL TO OR LESS THAN 12 INCHES SHALL BE CONSTRUCTED OF AGGREGATE OF CA02 GRADATION. ALL AGGREGATE SUBGRADE THICKNESSES GREATER THAN 12 INCHES SHALL BE CONSTRUCTED OF CS02.
- PRECAST GRATED INLET SPECIALS MAY BE SUBSTITUTED IN LIEU OF CAST-IN-PLACE UNITS WITH FLOORS UPON RECEIPT OF MANUFACTURER'S SHOP DRAWINGS WHICH HAVE BEEN APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING NECESSARY DIMENSIONS ON THE EXISTING DRAINAGE STRUCTURE REQUIRED FOR THE ATTACHMENT. NO ADDITIONAL COST FOR THIS SUBSTITUTION SHALL BE ALLOWED.
- THE COST OF MAKING STORM SEWER CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE VARIOUS CONTRACT UNIT PRICES FOR STORM SEWER.
- LATERAL DISTANCES FROM THE CENTERLINE ON ALL INLETS ARE TO THE FACE OF THE INLET.
- THE NEW MANHOLE LIDS ON THIS PROJECT SHALL HAVE THE WORD "STORM", "SANITARY", OR "WATER" ON THE LID. THE WORD TO BE USED IS NOTED ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE WORD TO BE USED ON OTHER LIDS NOT NOTED ON THE PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.
- ALL PROPOSED MANHOLES ON THIS PROJECT SHALL BE CAST-IN-PLACE OR PRECAST. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MANHOLE OF THE TYPE AND SIZE SPECIFIED.
- THE CONTRACTOR SHALL DETERMINE FLOW LINES OF EXISTING SEWER LINES, CULVERTS, AND UNDERDRAINS. THIS INFORMATION IS NECESSARY BEFORE ORDERING INLETS AND MANHOLES. THE PLAN INFORMATION SHOWN IS APPROXIMATE AND BASED ON THE SURVEY DATA AVAILABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUB-CONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR CONSTRUCTION LAYOUT.
- A PERMANENT SURVEY MARKER, TYPE II SHALL BE PLACED ON TOP OF THE PROPOSED DROP STRUCTURE AS SHOWN ON DISTRICT STANDARD 66.2.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE HORIZONTAL COORDINATES MUST BE DERIVED BY GPS AND THE ELEVATION DERIVED USING AN ELECTRONIC LEVEL. THE META DATA, SUCH AS THE GEOID USED, (NGS ADJUSTMENT IE: 97 HARN, 03, 07), AND THE BASE POINT(S) NAME OR NUMBER SHALL BE SUBMITTED ALONG WITH A COMPLETE COLLECTION LOG. IF COLLECTED USING RTK METHOD, IT WILL REQUIRE EITHER 3 COLLECTIONS (AVERAGED) FROM 2 DIFFERENT BASES, OR A MINIMUM OF 3 COLLECTIONS (AVERAGED), AT LEAST 2 HOURS APART, FROM THE SAME BASE. IF USING A CORS TYPE NETWORK, THE COLLECTION PROCEDURE SHALL INCLUDE LOCALIZING WITH CHECK SHOTS ON AT LEAST 2 DIFFERENT HARN MONUMENTS BOTH BEFORE AND AFTER COLLECTION. THE LEVEL CIRCUIT SHALL BE RUN FROM FURNISHED MARK TO FURNISHED MARK AND THEN ADJUSTED. THE ERROR OF CLOSURE SHALL BE SUBMITTED WITH THE ELECTRONIC LEVEL NOTES IN A RECOGNIZED FORMAT APPROVED BY THE ENGINEER AND/OR THE CHIEF OF SURVEYS. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE DISTRICT CHIEF OF SURVEYS.
- THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 ANCHOR PINS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL AT THE FOLLOWING LOCATIONS:
STA 664+97.5 TO STA 676+72.5

A TRANSITION SHALL BE PROVIDED BY INSTALLING TWO PINS AND THEN ONE PIN IN THE NEXT TWO BARRIER UNITS UPSTREAM. THE BARRIER LID AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING AND PINNING HOLES SHALL BE CORE DRILLED.
- TREE PLANTING LAYOUT SHALL BE PERFORMED BY THE DISTRICT ROADSIDE MANAGEMENT SPECIALIST. MULCH SHALL BE PLACED 4" THICK AND TO THE DIAMETER AROUND THE TREE AS SHOWN ON DISTRICT STANDARD 92.1. THE MULCH SHALL BE HARDWOOD WOOD CHIPS PLACED ON WEED BARRIER FABRIC. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TREE.
- WORK ON THIS PROJECT WILL BE IN PROGRESS AT THE SAME TIME AS WORK ON THE ADJACENT ILLINOIS STATE TOLLWAY HIGHWAY PROJECT (CONTRACT NO. RR-16-4258). WORK ON THESE PROJECTS SHALL BE SCHEDULED TO KEEP INTERFERENCE BETWEEN ALL THE PROJECTS TO A MINIMUM. THE CONTRACTORS SHALL INFORM EACH OTHER OF PROGRESS OF THE PROJECTS AND GIVE FAIR WARNING TO THE OTHER CONTRACTORS WHEN A PROBLEM MIGHT BE ENCOUNTERED.
- ANY SUBCONTRACTOR CHOSEN TO DO UNDERGROUND STORAGE TANK REMOVAL AND/OR SPECIAL OR HAZARDOUS WASTE MANAGEMENT MUST BE ON THE STATE FIRE MARSHALL'S CURRENTLY APPROVED LIST OF QUALIFIED CONTRACTORS TO DO SUCH WORK. PRIOR TO ANY INVOLVEMENT WITH SPECIAL OR HAZARDOUS WASTE, THE PRIME CONTRACTOR SHALL NOTIFY THE DISTRICT ENVIRONMENT UNIT HAZARDOUS WASTE COORDINATOR WHO THIS DESIGNATED SUB-CONTRACTOR IS AND FURNISH FIVE PROJECTS THIS SUB-CONTRACTOR HAS SUCCESSFULLY CONCLUDED, INCLUDING THE IEPA INCIDENT NUMBER. THE DISTRICT WILL THEN CONFIRM THE SUCCESSFUL CONCLUSION OF THESE PROJECTS BY REVIEWING THE IEPA DATA BASE. ONLY AFTER APPROVAL FROM THE DISTRICT ENVIRONMENT UNIT WILL THE SUB-CONTRACTOR BE AUTHORIZED TO PROCEED WITH ANY INVOLVEMENT WITH SPECIAL/HAZARDOUS WASTE.

GENERAL NOTES CONT'D

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

COMPANY	CONTACT	TELEPHONE
NICOR GAS CO.	BRUCE KOPPANG	(630) 388-3046
ROCKFORD WATER DEPARTMENT	JAMIE ROTT	(815) 967-7060
ROCK RIVER WATER RECLAMATION DISTRICT	CHRISTOPHER BAER	(815) 387-7660
COMCAST CABLE	KEITH KOSHINSKI	(224) 229-5432
KENTUCKY DATA LINK, INC.	JAMES KUSTUCH	(414) 313-9032
ALDRIDGE ELECTRIC	HARLAN SCHMIDT	(815) 467-0428
AT&T	HECTOR GARCIA	(630) 573-5465
COMMONWEALTH EDISON COMPANY	ADAM SADKOWSKI	(630) 985-4043

IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.

- TIE BARS SHALL BE INSTALLED TO TIE PCC APPURTENANCE TO ADJACENT EXISTING CONCRETE PAVEMENT.

TIE THE FOLLOWING TO THE EXISTING CONCRETE PAVEMENT

	LENGTH, SIZE, AND SPACING OF TIE BARS
CURB & GUTTER, STD 606001	24" LONG NO. 6 @ 36" CENTERS
PCC PAVEMENT	24" LONG NO. 6 @ 36" CENTERS

TIE BARS TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 420.05(B) OF THE STANDARD SPECIFICATIONS. SEE HIGHWAY STANDARD 420001 FOR DETAIL ON LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR. THE COST OF THE TIE BARS TO BE INCLUDED IN THE COST OF THE PCC APPURTENANCE ADJACENT TO THE EXISTING PAVEMENT.

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE MUNICIPALITY TO DETERMINE APPROVED METHODS OF UTILITY STRUCTURE ADJUSTMENT. UTILITY STRUCTURES MAY INCLUDE, BUT ARE NOT LIMITED TO, MANHOLES, WATER VALVES, HANDHOLES, ETC. ALL MATERIALS AND WORK NECESSARY TO COMPLETE ADJUSTMENTS PER MUNICIPALITY REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED ADJUSTMENT PAY ITEM.
- CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.
- THE WORK OF REMOVING, STORING, AND REINSTALLING THE TEMPORARY DITCH CHECKS OVER AREAS TO BE REWORKED MORE THAN ONCE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF TEMPORARY DITCH CHECKS.
- TRANSVERSE CONSTRUCTION JOINTS IN PCC PAVEMENT SHALL BE CONSTRUCTED AS SHOWN ON HIGHWAY STANDARDS 420001 AND 420101. ADJUST LOCATIONS TO PLACE JOINTS IN PROLONGATION WITH JOINTS IN THE EXISTING PAVEMENT. COST IS INCLUDED IN PORTLAND CEMENT CONCRETE PAVEMENT.
- STORM SEWER CONSTRUCTION INCLUDING BACKFILLING AND COMPACTING THE TRENCH SHALL BE COMPLETED PRIOR TO DRILLING THE PROPOSED LIGHTING FOUNDATIONS.
- PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
 - ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
 - ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
 - THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
 - CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.
- EXCESS TREES THAT CANNOT BE PLANTED ALONG THE US BUSINESS 20 (EAST STATE ST) PROJECT LIMITS SHALL BE PLANTED AT ALTERNATIVE LOCATIONS IN WINNEBAGO COUNTY AS DETERMINED BY THE DISTRICT ROADSIDE MANAGEMENT SPECIALIST.
- DELINEATORS SHALL BE INSTALLED AS SHOWN IN STANDARD 635001, EXCEPT THAT THE POST SHALL BE ROTATED 180° AND ONLY METAL-BACKED DELINEATORS SHALL BE PERMITTED. DELINEATORS SHALL BE PLACED AT THE JUNCTION BOX AND THE FLARED END SECTION.
- WHEN WORK IS BEING PERFORMED ON TOLLWAY RIGHT-OF-WAY OR WHEN A LOCATE IS REQUIRED FOR TOLLWAY FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY AND MAKING THE APPROPRIATE REQUEST.
- CONTRACTOR IS TO CONSTRUCT 12' LONG CLASS B PATCHES AT APPROXIMATELY STATION 668+20 ACROSS BOTH EXISTING WESTBOUND THROUGH LANES. THE PATCHES SHALL BE CONSTRUCTED PRIOR TO PLACING TEMPORARY CONCRETE BARRIER.

GENERAL NOTES CONT'D

- ALL MANDATORY JOINT SEALING FOR CLASS B PATCHES AS SHOWN ON THE PLANS WILL NOT BE MEASURED FOR PAYMENT. OPTIONAL SAWING OF THE JOINT FOR THE SEALANT RESERVOIR WILL NOT BE MEASURED FOR PAYMENT.

FOR ALL CONCRETE PATCHING THAT WILL NOT BE RESURFACED, THE CONCRETE SHALL BE STRUCK OFF FLUSH WITH THE EXISTING PAVEMENT SURFACE AT EACH END OF THE PATCH.

THE ENGINEER RESERVES THE RIGHT TO CHECK ALL PATCHES FOR SMOOTHNESS BY THE USE OF A 10' ROLLING STRAIGHT EDGE SET TO A 3/16" TOLERANCE IN THE WHEEL PATHS. ANY PATCH AREAS HIGHER THAN 3/16" MUST BE GROUND SMOOTH WITH AN APPROVED GRINDING DEVICE CONSISTING OF MULTIPLE SAWS. THE USE OF BUSHHAMMER OR OTHER IMPACT DEVICES WILL NOT BE PERMITTED. ANY PATCH WITH DEPRESSIONS GREATER THAN 3/16" SHALL BE REPAIRED IN A MANNER APPROVED BY THE ENGINEER.

THE MANDATORY SAW CUTS FOR PAVEMENT PATCHING ARE:

CLASS B PATCH: CUT TWO TRANSVERSE SAW CUTS OUTLINING THE PATCH AND ONE TRANSVERSE PRESSURE RELIEF SAW CUT. THE LONGITUDINAL EDGES OF THE PATCH SHALL BE CUT FULL DEPTH. WHEN THE PATCH IS ADJACENT TO A PCC SHOULDER, TWO SAW CUTS ALONG THE SHOULDER WILL BE REQUIRED.

THE MANDATORY SAW CUTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SAW CUTS.

- ALL SANITARY MANHOLE WORK SHALL FOLLOW THE STANDARDS, SPECIFICATIONS, AND CONSTRUCTION REQUIREMENTS OF THE ROCK RIVER WATER RECLAMATION DISTRICT INCLUDING THE STANDARD DETAIL SHEET INCLUDED IN THE PLANS. A ROCK RIVER WATER RECLAMATION DISTRICT INSPECTOR MUST BE PRESENT FOR ALL MANHOLE ADJUSTMENT AND RECONSTRUCTION WORK.
- TWO BARRIER WALL REFLECTORS, TYPE C ARE TO BE INSTALLED PER TEMPORARY CONCRETE BARRIER. BARRIER WALL REFLECTOR, TYPE C WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.

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PLOT DATE = 3/14/2018 9:28:44 AM	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

SCALE: NA SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-11W)	WINNEBAGO	69	3
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				ROADWAY 0003	URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	158	158	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	56	56	
20200100	EARTH EXCAVATION	CU YD	970	970	
20800150	TRENCH BACKFILL	CU YD	17	17	
25000110	SEEDING, CLASS 1A	ACRE	0.25	0.25	
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25	
25000310	SEEDING, CLASS 4	ACRE	0.25	0.25	
** 25000750	MOWING	ACRE	0.50	0.50	
25100125	MULCH, METHOD 3	ACRE	0.50	0.50	
25100630	EROSION CONTROL BLANKET	SQ YD	1009	1009	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	450	450	
28000305	TEMPORARY DITCH CHECKS	FOOT	232	232	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28100107	STONE RIPRAP, CLASS A4	SQ YD	22	22	

* SPECIALTY ITEM ** NP 100% STATE

PRINT DRIVER = LPL-ALPHABET
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USER NAME = k.jk
 ESCA PROJECT NO. 1148.13
 PLOT SCALE = 0.1867' / in.
 PLOT DATE = 3/14/2018 9:28:47 AM

DESIGNED - SKM/KJK
 DRAWN - SKM/KJK
 CHECKED - ELJ
 DATE - 12/17

REVISED -
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 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				ROADWAY	
				0003 URBAN	
28200200	FILTER FABRIC	SQ YD	22	22	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1871	1871	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	34	34	
42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	SQ YD	1485	1485	
42001300	PROTECTIVE COAT	SQ YD	1871	1871	
44000100	PAVEMENT REMOVAL	SQ YD	148	148	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	124	124	
44004000	PAVED DITCH REMOVAL	FOOT	41	41	
44004250	PAVED SHOULDER REMOVAL	SQ YD	1108	1108	
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	34	34	
44201299	DOWEL BARS 1 1/2"	EACH	40	40	
44213200	SAW CUTS	FOOT	124	124	
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2	
50800105	REINFORCEMENT BARS	POUND	60	60	

⊗ SPECIALTY ITEM

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PLDT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLDT DATE = 3/14/2018 9:28:47 AM	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	5
CONTRACT NO. 64L90			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				ROADWAY	URBAN
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1		1
54248510	CONCRETE COLLAR	CU YD	1.3		1.3
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	21		21
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	61		61
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	20		20
550A0180	STORM SEWERS, CLASS A, TYPE 1 42"	FOOT	10		10
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	45		45
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	893		893
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	96		96
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	12		12
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	50		50
60218400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	10		10
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1128		1128
63500105	DELINEATORS	EACH	2		2

⊗ SPECIALTY ITEM

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PLOT DATE = 3/14/2018 9:29:47 AM	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.P. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL	20% STATE
				ROADWAY	URBAN
⊗ 66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1		1
⊗ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	320		320
⊗ 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1		1
⊗ 66900530	SOIL DISPOSAL ANALYSIS	EACH	1		1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4		4
67100100	MOBILIZATION	L SUM	1		1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1		1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		1
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1		1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	740		740
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	247		247
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2210		2210
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1375		1375
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1		1

⊗ SPECIALTY ITEM

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 PLOT SCALE: 1/8" = 1'-0"



USER NAME = kjk	DESIGNED - SKM/KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - SKM/KJK	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:28:48 AM	DATE - 03/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 SCALE: NA SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64L90	

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				ROADWAY	
				0003	
				URBAN	
⊗ 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	126	126	
⊗ 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	3450	3450	
⊗ 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1076	1076	
⊗ 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	476	476	
⊗ 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	207	207	
⊗ 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	66	66	
⊗ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	20	20	
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	44	44	
⊗ 78100300	REPLACEMENT REFLECTOR	EACH	22	22	
⊗ 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2150	2150	
⊗ 81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	1192	1192	
⊗ 81400100	HANDHOLE	EACH	2	2	
⊗ 81400300	DOUBLE HANDHOLE	EACH	2	2	
⊗ 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	6200	6200	

⊗ SPECIALTY ITEM

ESCA CONSULTANTS, INC.
 1000 N. W. 10th St.
 Ft. Lauderdale, FL 33304
 Phone: (305) 463-1111
 Fax: (305) 463-1112
 Email: info@esca.com



USER NAME = kjk	DESIGNED - SKM/KJK	REVISED -
ESCA PROJECT NO. 1148.13	DRAWN - SKM/KJK	REVISED -
PLOT SCALE = 0.1667" / 1"	CHECKED - ELH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	
				ROADWAY	URBAN
⊗ 83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	32		32
84200804	REMOVAL OF POLE FOUNDATION	EACH	8		8
89502380	REMOVE EXISTING HANDHOLE	EACH	4		4
⊗ A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6		6
⊗ A2005814	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	5		5
⊗ B2004114	TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 1-3/4" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	6		6
X0326474	DROP STRUCTURE NUMBER 1	EACH	1		1
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2860		2860
⊗ X1400012	REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT	FOOT	2500		2500
X5429311	TRAVERSABLE PIPE GRATE, SPECIAL	FOOT	33		33
X6024210	DOUBLE INLET, SPECIAL	EACH	1		1
X6024240	INLETS, SPECIAL	EACH	10		10
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	3		3
X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	1		1

⊗ SPECIALTY ITEM

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 PLOT SCALE: 1/8" = 1'-0"

14



USER NAME = kjk	DESIGNED - SKM/KJK	REVISED -
ESCA PROJECT NO. 114813	DRAWN - SKM/KJK	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:22:48 AM	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	9
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

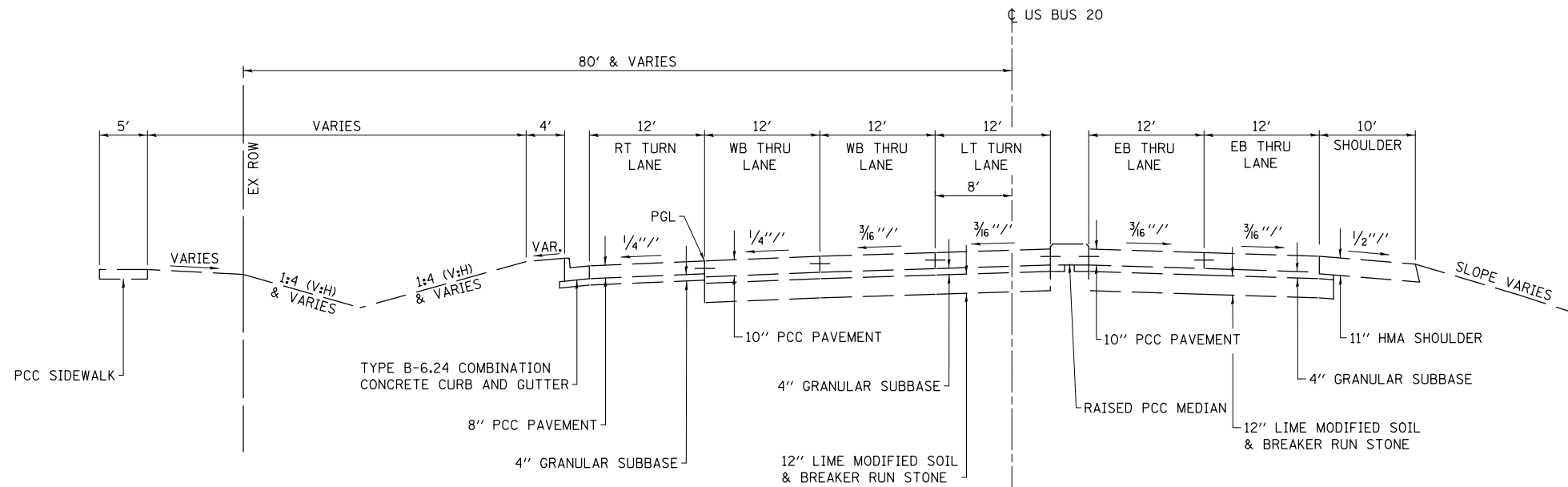
SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				80% FEDERAL 20% STATE ROADWAY 0003 URBAN	
X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	60	60	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	111	111	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	740	740	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	285	285	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	22	22	
X8360310	LIGHT POLE FOUNDATION, 30" DIAMETER, SPECIAL	FOOT	76	76	
⊗ X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE	EACH	8	8	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	252	252	

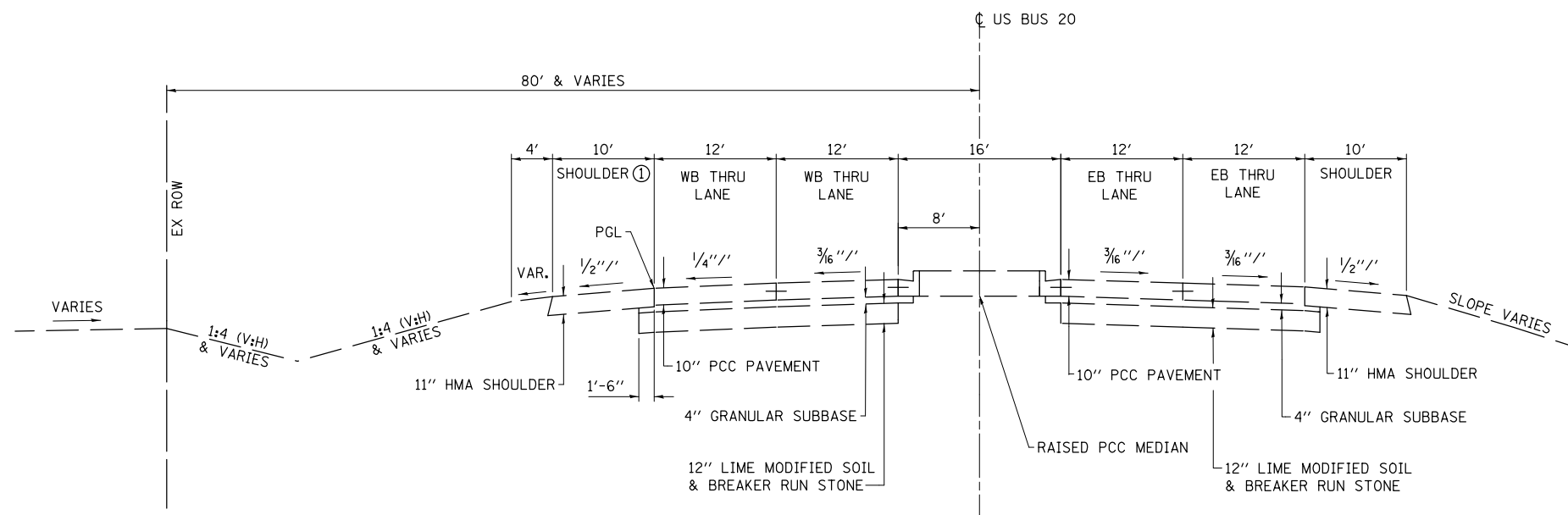
⊗ SPECIALTY ITEM

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	ESCA PROJECT NO. 1148.13	DRAWN - SKM/KJK	REVISED -		SCALE: NA	SHEET NO. 7 OF 7 SHEETS	STA.	117	(2Y-1)W	WINNEBAGO	69	10
	PLOT DATE = 3/14/2018 9:28:49 AM	CHECKED - ELH	REVISED -		TO STA.		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64L90			



EXISTING TYPICAL SECTION
STATION 663+45 TO STATION 667+25.48



EXISTING TYPICAL SECTION
STATION 667+25.48 TO STATION 676+59.62

PRINT DRIVER = L:\ES\Bates\p9
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 0.1667' / 1"



USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 0.1667' / 1"
 PLOT DATE = 3/14/2018 9:20:51 AM

DESIGNED - ELH
 DRAWN - KJK
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 DATE - 07/17

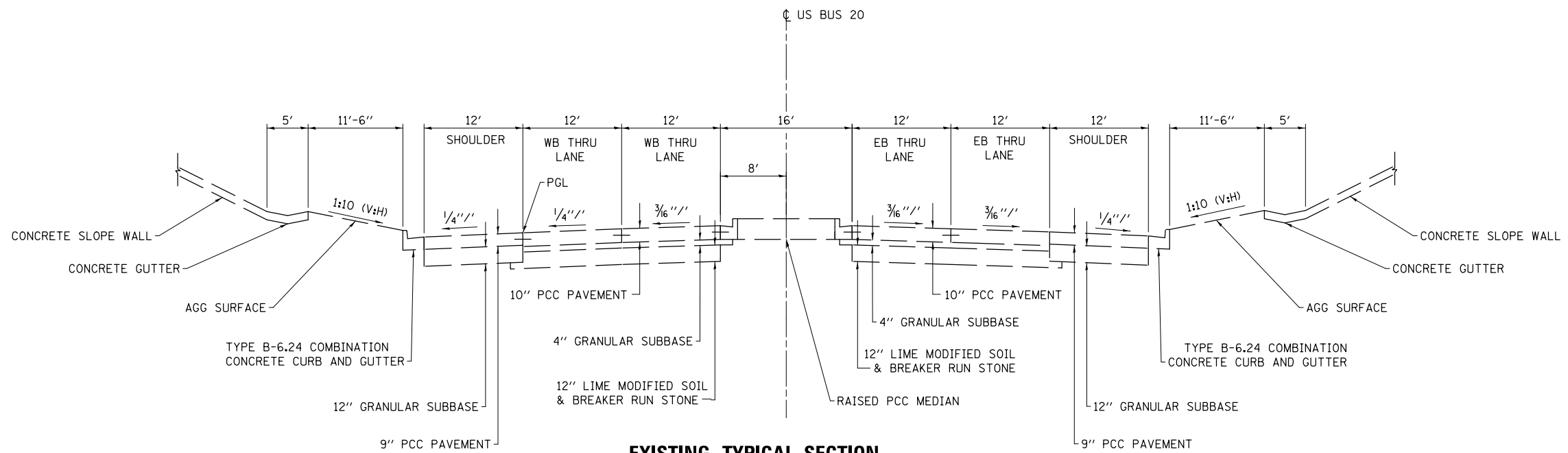
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

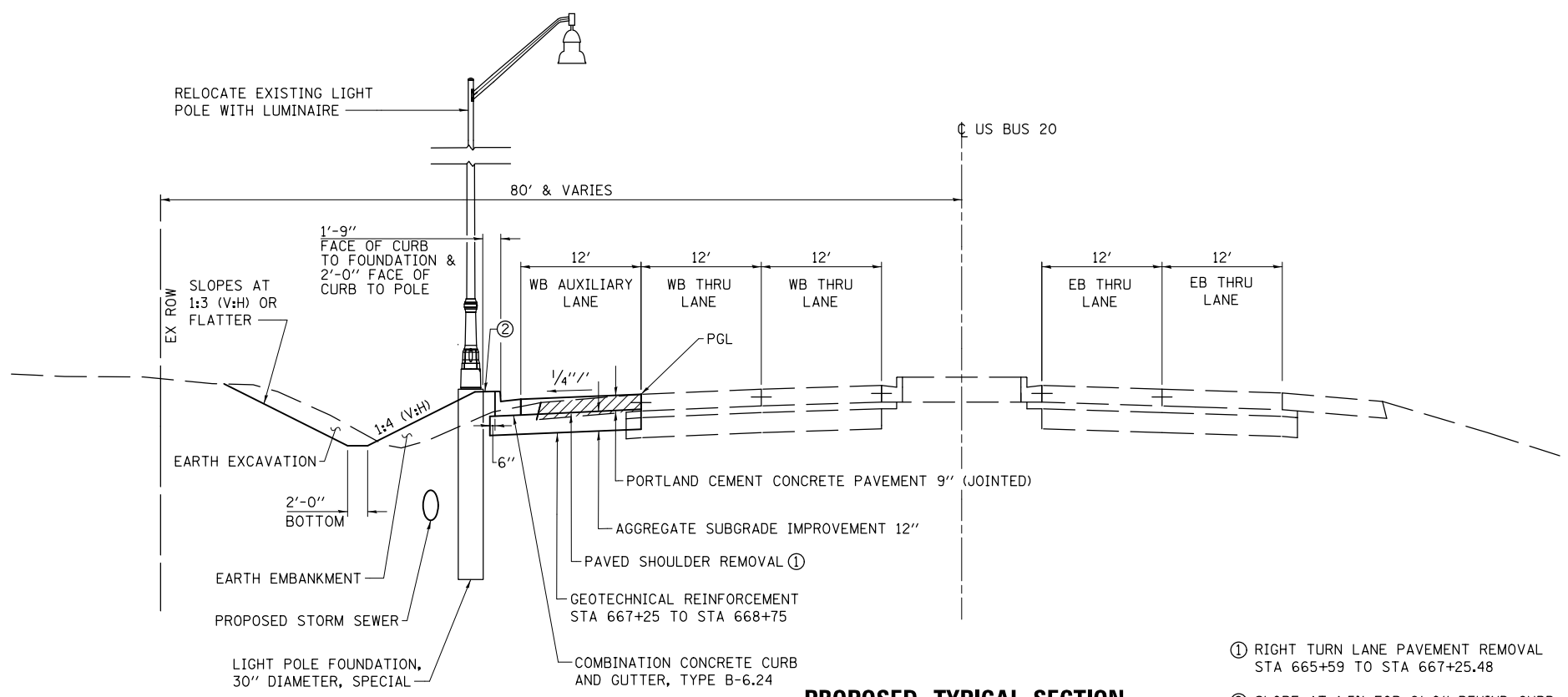
TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	



EXISTING TYPICAL SECTION
STATION 676 + 59.62 TO STATION 678 + 59.84



PROPOSED TYPICAL SECTION
STATION 665 + 46 TO STATION 676 + 59.62

STRUCTURAL DESIGN TRAFFIC:	YEAR 2030
PV = 34795	SU = 1260 MU = 945
ROAD/STREET CLASSIFICATION:	CLASS I
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P = 33%	S = 33% M = 33%
TRAFFIC FACTOR:	
ACTUAL TF = 5.57	MINIMUM TF = 3.68

- ① RIGHT TURN LANE PAVEMENT REMOVAL STA 665+59 TO STA 667+25.48
- ② SLOPE AT 1.5% FOR 2'-0" BEHIND CURB

PRINT DRIVER = L:\E-Books\10179
 SCALE NAME = PLOT
 FILE NAME = 10179.dwg
 PLOT DATE = 3/14/2018 9:20:53 AM



USER NAME = kjk	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	12
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER) <u>LOCATION</u>	<u>UNIT</u>	<u>COMMENTS</u>	28000250	TEMPORARY EROSION CONTROL SEEDING <u>LOCATION</u>	<u>POUND</u>	<u>COMMENTS</u>
	STA 668+23 LT	15			STA 665+11 TO STA 676+80 LT	450	(100#)/(WEEK*ACRE) FOR 6 WEEKS
	STA 669+25 LT	15			TOTAL	450	
	STA 670+37 LT	14					
	STA 671+33 LT	13					
	STA 672+33 LT	12					
	STA 674+04 LT	89	9 TREES				
	TOTAL	158					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER) <u>LOCATION</u>	<u>UNIT</u>	<u>COMMENTS</u>	28000305	TEMPORARY DITCH CHECKS <u>LOCATION</u>	<u>FOOT</u>	<u>COMMENTS</u>
	STA 673+38 LT	17			STA 665+77 57' LT	20	
	STA 674+36 LT	21			STA 666+90 60' LT	20	
	STA 675+39 LT	18			STA 668+33 58' LT	16	
	TOTAL	56			STA 669+57 56' LT	16	
					STA 670+37 56' LT	16	
					STA 671+03 56' LT	16	
					STA 671+69 57' LT	16	
					STA 672+34 57' LT	16	
					STA 672+87 58' LT	16	
					STA 673+37 61' LT	16	
					STA 674+08 60' LT	16	
					STA 674+81 61' LT	16	
					STA 675+44 64' LT	16	
					STA 676+19 66' LT	16	
	TOTAL				TOTAL	232	
20800150	TRENCH BACKFILL <u>LOCATION</u>	<u>CU YD</u>	<u>COMMENTS</u>	28000500	INLET AND PIPE PROTECTION <u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>
	STA 665+65 LT	1.4			STA 676+56 64' LT	1	DROP STRUCTURE
	STA 666+50 LT	1.4			STA 676+59 92.8' LT	1	PRCF END SECTION
	STA 667+40 LT	1.4			TOTAL	2	
	STA 668+65 LT	1.4					
	STA 669+85 LT	1.4					
	STA 671+20 LT	1.4					
	STA 672+60 LT	1.4					
	STA 673+80 LT	1.3					
	STA 674+90 LT	1.3					
	STA 675+90 LT	1.3					
	STA 676+40 LT	3.3					
	TOTAL	17					
25000110	SEEDING, CLASS 1A <u>LOCATION</u>	<u>ACRE</u>	<u>COMMENTS</u>	28100107	STONE RIPRAP, CLASS A4 <u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>
	STA 665+11 TO 670+00 LT	0.25	ALL MOWED AREAS		STA 676+60 LT	22	
	TOTAL	0.25			TOTAL	22	
25000210	SEEDING, CLASS 2A <u>LOCATION</u>	<u>ACRE</u>	<u>COMMENTS</u>	28200200	FILTER FABRIC <u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>
	STA 670+00 TO 676+80 LT	0.25	ALL MOWED AREAS		STA 676+60 LT	22	
	TOTAL	0.25			TOTAL	22	
25000310	SEEDING, CLASS 4 <u>LOCATION</u>	<u>ACRE</u>	<u>COMMENTS</u>	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12" <u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>
	STA 670+00 TO 676+80 LT	0.25	UNMOWED BACKSLOPES AND BEYOND		STA 665+32 TO 665+46 LT	5	
	TOTAL	0.25			STA 665+46 TO 676+59.62 LT	1866	
					TOTAL	1871	
25000750	MOWING <u>LOCATION</u>	<u>ACRE</u>	<u>COMMENTS</u>	42000060	WELDED WIRE REINFORCEMENT <u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>
	STA 665+00 TO 670+00 LT	0.25	MOW AREAS WITH SEEDING CLASS 1A AND 2A		STA 668+14 TO 668+26 12' LT TO 24' LT	17	
	STA 670+00 TO 676+80 LT	0.25			STA 668+14 TO 668+26 24' LT TO 36' LT	17	
	TOTAL	0.50			TOTAL	34	
25100125	MULCH, METHOD 3 <u>LOCATION</u>	<u>ACRE</u>	<u>COMMENTS</u>	42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED) <u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>
	STA 665+11 TO STA 676+80 LT	0.50	PERMANENT SEEDING AREAS		STA 665+46 TO 676+59.62 LT	1485	
	TOTAL	0.50			TOTAL	1485	
25100630	EROSION CONTROL BLANKET <u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>	42001300	PROTECTIVE COAT <u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>
	STA 665+11 TO STA 676+51 LT	1009	SEE EROSION CONTROL SHEETS		STA 665+46 TO 676+59.62 LT	1485	PCC PAVEMENT
	TOTAL	1009			STA 665+32 TO 676+59.62 LT	386	COMBINATION CONCRETE CURB AND GUTTER
					TOTAL	1871	
				44000100	PAVEMENT REMOVAL <u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>
					STA 665+46 TO 667+25.48 LT	148	
					TOTAL	148	

PRINT DRIVER = L:\ESB\Bates\9
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 0.1667' / 1"



USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 0.1667' / 1"
 PLOT DATE = 3/14/2018 9:20:55 AM

DESIGNED - SKM/KJK
 DRAWN - SKM/KJK
 CHECKED - ELH
 DATE - 03/18

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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NA SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	13
FED. ROAD DIST. NO.			CONTRACT NO. 64L90	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	LOCATION	QUANTITY	UNIT	COMMENTS
44000500	COMBINATION CURB AND GUTTER REMOVAL				
		STA 665+32 TO 666+56 LT	124	FOOT	
		TOTAL	124		
44004000	PAVED DITCH REMOVAL				
		STA 676+42 TO 676+70 64' LT	28	FOOT	
		STA 676+56 64' LT TO 79' LT	13		
		TOTAL	41		
44004250	PAVED SHOULDER REMOVAL				
		STA 666+56 TO 676+59.62 LT	1108	SQ YD	
		TOTAL	1108		
44200974	CLASS B PATCHES, TYPE III, 10 INCH				
		STA 668+14 TO 668+26 12' LT TO 24' LT	17	SQ YD	
		STA 668+14 TO 668+26 24' LT TO 36' LT	17		
		TOTAL	34		
44201299	DOWEL BARS 1 1/2"				
		STA 668+14 12' LT TO 36' LT	20	EACH	
		STA 668+26 12' LT TO 36' LT	20		
		TOTAL	40		
44213200	SAW CUTS				
		STA 668+14 TO 668+26 LT	124	FOOT	
		TOTAL	124		
50104400	CONCRETE HEADWALL REMOVAL				
		STA 676+67 59' LT	1	EACH	
		STA 676+70 64' LT	1		
		TOTAL	2		
50800105	REINFORCEMENT BARS				
		STA 676+70 64' LT	60	POUND	SEE DISTRICT STD 33.1
		TOTAL	60		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"				
		STA 676+59 92.8' LT	1	EACH	
		TOTAL	1		
54248510	CONCRETE COLLAR				
		STA 676+70 64' LT	1.3	CU YD	SEE DISTRICT STD 33.1
		TOTAL	1.3		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"				
		STA 676+40 TO 676+56 LT	21	FOOT	
		TOTAL	21		
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"				
		STA 675+90 TO 676+56 LT	61	FOOT	
		TOTAL	61		

ITEM NO.	DESCRIPTION	LOCATION	QUANTITY	UNIT	COMMENTS
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"				
		STA 676+59, 92.8' LT TO 676+56, 64.0' LT	20	FOOT	
		TOTAL	20		
550A0180	STORM SEWERS, CLASS A, TYPE 1 42"				
		STA 676+56 TO 676+70 LT	10	FOOT	
		TOTAL	10		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"				
		STA 665+65 44.0' LT TO 53.0' LT	4.5	FOOT	
		STA 666+50 44.0' LT TO 53.0' LT	4.5		
		STA 667+40 44.0' LT TO 53.0' LT	4.5		
		STA 668+55 44.0' LT TO 53.0' LT	4.5		
		STA 669+85 44.0' LT TO 53.0' LT	4.5		
		STA 671+20 44.0' LT TO 53.0' LT	4.5		
		STA 672+60 44.0' LT TO 53.0' LT	4.5		
		STA 673+80 44.0' LT TO 53.0' LT	4.5		
		STA 674+90 44.0' LT TO 53.0' LT	4.5		
		STA 675+90 44.0' LT TO 53.0' LT	4.5		
		TOTAL	45		
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"				
		STA 665+65 TO 666+50 LT	81	FOOT	
		STA 666+50 TO 667+40 LT	86		
		STA 667+40 TO 668+65 LT	121		
		STA 668+65 TO 669+85 LT	116		
		STA 669+85 TO 671+20 LT	131		
		STA 671+20 TO 672+60 LT	136		
		STA 672+60 TO 673+80 LT	116		
		STA 673+80 TO 674+90 LT	106		
		TOTAL	893		
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"				
		STA 674+90 TO 675+90 LT	96	FOOT	
		TOTAL	96		
60108200	PIPE UNDERDRAINS 6" (SPECIAL)				
		STA 676+67 LT	12	FOOT	
		TOTAL	12		
60108204	PIPE UNDERDRAINS, TYPE 2, 4"				
		STA 668+65 LT	12.5	FOOT	
		STA 671+20 LT	12.5		
		STA 673+80 LT	12.5		
		STA 676+40 LT	12.5		
		TOTAL	50		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID				
		STA 665+65 53.0' LT	1	EACH	
		STA 666+50 53.0' LT	1		
		STA 667+40 53.0' LT	1		
		STA 668+65 53.0' LT	1		
		STA 669+85 53.0' LT	1		
		STA 671+20 53.0' LT	1		
		STA 672+60 53.0' LT	1		
		STA 673+80 53.0' LT	1		
		STA 674+90 53.0' LT	1		
		STA 675+90 53.0' LT	1		
		TOTAL	10		

PRINT DRIVER = L:\ESCA\Bates\9
 USER NAME = PJL
 PLOT DATE = 3/14/2018 9:21:04 AM



USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 0.1667' / 1"

DESIGNED - SKM/KJK
 DRAWN - SKM/KJK
 CHECKED - ELH
 DATE - 03/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NA SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

SCHEDULE OF QUANTITIES

60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 <u>LOCATION</u> STA 665+32 TO 676+59.62 LT	<u>FOOT</u> 1128							
	TOTAL	1128							
63500105	DELINEATORS <u>LOCATION</u> STA 676+62 64' LT STA 676+58 90' LT	<u>EACH</u> 1 1		<u>COMMENTS</u> BEFORE DROP STRUCTURE AT FLARED END SECTION					
	TOTAL	2							
66700305	PERMANENT SURVEY MARKERS, TYPE II <u>LOCATION</u> STA 676+51 64.0' LT	<u>EACH</u> 1		<u>COMMENTS</u>					
	TOTAL	1							
66900200	NON-SPECIAL WASTE DISPOSAL <u>LOCATION</u> STA 676+00 TO 677+00 LT	<u>CU YD</u> 320		<u>COMMENTS</u> USE AS REQUIRED					
	TOTAL	320							
70300100	SHORT TERM PAVEMENT PARKING <u>LOCATION</u> STA 663+46 TO 681+56 LT	<u>FOOT</u> 740		<u>COMMENTS</u> WHITE, TWO APPLICATIONS					
	TOTAL	740							
70300150	SHORT TERM PAVEMENT MARKING REMOVAL <u>LOCATION</u> STA 663+46 TO 681+56 LT	<u>SQ FT</u> 247		<u>COMMENTS</u>					
	TOTAL	247							
70300220	TEMPORARY PAVEMENT MARKING - LINE 4" <u>LOCATION</u> STA 663+46 TO 681+12 LT STA 664+00 TO 681+12 LT	<u>FOOT</u> 1770 440		<u>COMMENTS</u> WHITE, SOLID EDGE LINE WHITE, SKIP-DASH LANE LINE					
	TOTAL	2210							
70400100	TEMPORARY CONCRETE BARRIER <u>LOCATION</u> STA 664+97 TO 678+72 LT	<u>FOOT</u> 1375		<u>COMMENTS</u>					
	TOTAL	1375							
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 <u>LOCATION</u> STA 678+78 42' LT	<u>EACH</u> 1		<u>COMMENTS</u>					
	TOTAL	1							
78008200	POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS <u>LOCATION</u> STA 663+46 LT STA 663+71 LT STA 664+51 LT STA 665+31 LT STA 666+11 LT STA 664+52 LT STA 665+30 LT	<u>SQ FT</u> 11.5 15.6 15.6 15.6 15.6 26.0 26.0		<u>COMMENTS</u> THROUGH ARROW LEFT TURN ARROW LEFT TURN ARROW LEFT TURN ARROW LEFT TURN ARROW TWO ARROW COMB. RT & TH. TWO ARROW COMB. RT & TH.					
	TOTAL	126							
78008210	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4" <u>LOCATION</u> STA 663+27 TO 681+12 LT STA 664+49 TO 681+12 LT	<u>FOOT</u> 1785 1665		<u>COMMENTS</u> YELLOW, SOLID EDGE LINE WHITE, SOLID EDGE LINE					
	TOTAL	3450							
78008230	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6" <u>LOCATION</u> STA 663+46 TO 681+56 LT STA 663+11 & STA 663+18 LT STA 663+25 & STA 663+29 LT	<u>FOOT</u> 920 100 56		<u>COMMENTS</u> WHITE, SKIP-DASH LANE LINES WHITE, OUTSIDE CROSSWALK LINES WHITE, OUTSIDE CROSSWALK LINES					
	TOTAL	1076							
78008240	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 8" <u>LOCATION</u> STA 663+27 TO STA 666+34 LT STA 663+09 TO 663+70 LT	<u>FOOT</u> 307 169		<u>COMMENTS</u> WHITE, DELINEATING LEFT TURN AND THRU LANES WHITE, PAINTED ISLAND PERIMETER					
	TOTAL	476							
78008250	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 12" <u>LOCATION</u> STA 663+27 TO STA 666+34 LT STA 663+11 TO STA 663+18 LT STA 663+25 TO STA 663+29 LT	<u>FOOT</u> 63 96 48		<u>COMMENTS</u> WHITE, CHEVRONS IN PAINTED ISLAND WHITE, 6' LONG STRIPES WHITE, 6' LONG STRIPES					
	TOTAL	207							
78008270	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24" <u>LOCATION</u> STA 663+52 LT STA 663+46 LT STA 663+27 LT	<u>FOOT</u> 18 12 36		<u>COMMENTS</u> WHITE, STOP BAR WHITE, STOP BAR WHITE, STOP BAR					
	TOTAL	66							
78100100	RAISED REFLECTIVE PAVEMENT MARKER <u>LOCATION</u> STA 666+51 TO 681+71 LT	<u>EACH</u> 20		<u>COMMENTS</u> CRYSTAL, MONODIRECTIONAL					
	TOTAL	20							
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER <u>LOCATION</u> STA 664+00 TO 681+12 LT	<u>EACH</u> 44		<u>COMMENTS</u> CRYSTAL, MONODIRECTIONAL					
	TOTAL	44							
78100300	REPLACEMENT REFLECTOR <u>LOCATION</u> STA 664+00 TO 681+12 LT	<u>EACH</u> 22		<u>COMMENTS</u>					
	TOTAL	22							
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA. <u>LOCATION</u> STA 665+30 TO STA 665+50 LT STA 665+50 TO 675+85 LT STA 675+85 TO 676+65 LT THROUGHOUT THE PROJECT LT	<u>FOOT</u> 25 1140 85 1000		<u>COMMENTS</u> TRAFFIC SIGNAL INTERCONNECT TRAFFIC SIGNAL INTERCONNECT TRAFFIC SIGNAL INTERCONNECT PRIVATE FIBER					
	TOTAL	2150							
81028730	UNDERGROUND CONDUIT, COILABLE NON-METALLIC CONDUIT, 1 1/4" DIA. <u>LOCATION</u> STA 664+82 TO 666+26 LT STA 666+26 TO 667+67 LT STA 667+67 TO 669+11 LT STA 669+11 TO 670+51 LT STA 670+51 TO 671+92 LT STA 671+92 TO 673+34 LT STA 673+34 TO 674+75 LT STA 674+75 TO 676+26 LT	<u>FOOT</u> 150 147 150 146 147 148 147 157		<u>COMMENTS</u>					
	TOTAL	1192							

PRINT DRIVER = L:\0-6-2018\10-1-18\10-1-18.dwg
 USER NAME = ESCA\kjk
 PLOT DATE = 3/14/2018 9:21:13 AM



USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 0.1667' / 1"

DESIGNED - SKM/KJK
 DRAWN - SKM/KJK
 CHECKED - ELH
 DATE - 03/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NA SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	15
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

81400100	HANDHOLE <u>LOCATION</u> STA 665+30 50' LT STA 671+00 56' LT	<u>EACH</u> 1 1	<u>COMMENTS</u>
	TOTAL	2	
81400300	DOUBLE HANDHOLE <u>LOCATION</u> STA 675+56 56' LT STA 676+65 48' LT	<u>EACH</u> 1 1	<u>COMMENTS</u>
	TOTAL	2	
81702110	ELCBL IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 <u>LOCATION</u> STA 664+82 TO 666+26 LT STA 666+26 TO 667+67 LT STA 667+67 TO 669+11 LT STA 669+11 TO 670+51 LT STA 670+51 TO 671+92 LT STA 671+92 TO 673+34 LT STA 673+34 TO 674+75 LT STA 674+75 TO 676+26 LT	<u>FOOT</u> 780 765 780 760 765 770 765 815	<u>COMMENTS</u>
	TOTAL	6200	
83800650	BREAK AWAY DEVICE COUPLING WITH STAINLESS STEEL SCREEN <u>LOCATION</u> STA 666+26 49' LT STA 667+67 49' LT STA 669+11 49' LT STA 670+51 49' LT STA 671+92 49' LT STA 673+34 49' LT STA 674+75 49' LT STA 676+26 49' LT	<u>EACH</u> 4 4 4 4 4 4 4 4	<u>COMMENTS</u>
	TOTAL	32	
84200804	REMOVAL OF POLE FOUNDATION <u>LOCATION</u> STA 666+20 45' LT STA 667+62 44' LT STA 669+05 44' LT STA 670+24 44' LT STA 671+87 44' LT STA 673+29 44' LT STA 674+72 44' LT STA 676+20 44' LT	<u>EACH</u> 1 1 1 1 1 1 1 1	<u>COMMENTS</u>
	TOTAL	8	
89502380	REMOVE EXISTING HANDHOLE <u>LOCATION</u> STA 666+48 47' LT STA 671+02 48' LT STA 675+56 49' LT STA 675+62 49' LT	<u>EACH</u> 1 1 1 1	<u>COMMENTS</u>
	TOTAL	4	
A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED <u>LOCATION</u> AS DETERMINED BY DISTRICT ROADSIDE MANAGEMENT SPECIALIST	<u>EACH</u> 6	<u>COMMENTS</u>
	TOTAL	6	

A2005814	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 1-3/4" CALIPER, BALLED AND BURLAPPED <u>LOCATION</u> AS DETERMINED BY DISTRICT ROADSIDE MANAGEMENT SPECIALIST	<u>EACH</u> 5	<u>COMMENTS</u>
	TOTAL	5	
B2004114	TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 1-3/4" CALIPER, TREE FORM, BALLED AND BURLAPPED <u>LOCATION</u> AS DETERMINED BY DISTRICT ROADSIDE MANAGEMENT SPECIALIST	<u>EACH</u> 6	<u>COMMENTS</u>
	TOTAL	6	
X0326474	DROP STRUCTURE NUMBER 1 <u>LOCATION</u> STA 676+56 64.0' LT	<u>EACH</u> 1	<u>COMMENTS</u>
	TOTAL	1	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING <u>LOCATION</u> STA 663+46 TO 681+56 LT STA 663+46 TO 665+56 LT STA 664+49 TO 681+12 LT STA 663+27 TO 666+34 LT STA 663+09 TO 663+70 LT STA 663+27 TO 663+52 LT STA 663+11 TO 663+29 LT STA 663+27 TO 681+12 LT STA 663+27 TO 681+12 LT	<u>SQ FT</u> 230 30 832 205 180 135 225 893 130	<u>COMMENTS</u> WHITE, SKIP-DASH LANE LINE WHITE, SKIP-DASH LANE LINE WHITE, SOLID EDGE LINE WHITE, SOLID LANE LINE WHITE, PAINTED ISLAND WHITE, STOP BARS WHITE, CROSSWALKS YELLOW, SOLID EDGE LINE WHITE, LETTERS AND SYMBOLS
	TOTAL	2860	
X1400012	REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT <u>LOCATION</u> SE CONTROLLER CABINET TO STA 676+65 THROUGHOUT THE PROJECT	<u>FOOT</u> 1500 1000	<u>COMMENTS</u> TRAFFIC SIGNAL INTERCONNECT PRIVATE FIBER
	TOTAL	2500	
X6024210	DOUBLE INLET, SPECIAL <u>LOCATION</u> STA 676+40 44.0' LT	<u>EACH</u> 1	<u>COMMENTS</u>
	TOTAL	1	
X6024240	INLETS, SPECIAL <u>LOCATION</u> STA 665+65 44.0' LT STA 666+50 44.0' LT STA 667+40 44.0' LT STA 668+65 44.0' LT STA 669+85 44.0' LT STA 671+20 44.0' LT STA 672+60 44.0' LT STA 673+80 44.0' LT STA 674+90 44.0' LT STA 675+90 44.0' LT	<u>EACH</u> 1 1 1 1 1 1 1 1 1 1	<u>COMMENTS</u>
	TOTAL	10	
X6026050	SANITARY MANHOLES TO BE ADJUSTED <u>LOCATION</u> STA 669+02 64' LT STA 670+07 65' LT STA 673+98 67' LT	<u>EACH</u> 1 1 1	<u>COMMENTS</u>
	TOTAL	3	

PRINT DRIVER = L:\05-ESCA\10179
 USER NAME = PJL
 PLOT DATE = 3/14/2018 9:21:21 AM



USER NAME = kjk
 ESCA PROJECT NO. 114013
 PLOT SCALE = 0.1667" / 1" = 1/6"
 PLOT DATE = 3/14/2018 9:21:21 AM

DESIGNED - SKM/KJK
 DRAWN - SKM/KJK
 CHECKED - ELH
 DATE - 03/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NA SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	16
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED			
	<u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>	
	STA 676+04 65' LT	1		
	TOTAL	1		
X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED			
	<u>LOCATION</u>	<u>FOOT</u>	<u>COMMENTS</u>	
	STA 676+20 TO 676+80 LT	60		
	TOTAL	60		
X7015005	CHANGEABLE MESSAGE SIGN			
	<u>LOCATION</u>	<u>CAL DA</u>	<u>COMMENTS</u>	
	EAST OF PROJECT LT	111		
	TOTAL	111		
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL			
	<u>LOCATION</u>	<u>SQ FT</u>	<u>COMMENTS</u>	
	STA 663+46 TO 681+12 LT	590	WHITE, SOLID EDGE LINE	
	STA 664+00 TO 681+12 LT	150	WHITE, SKIP-DASH LANE LINE	
	TOTAL	740		
X7040125	PINNING TEMPORARY CONCRETE BARRIER			
	<u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>	
	STA 664+97.5 TO 676+72.5 LT	282		
	STA 676+72.5 TO 676+85 LT	2	TRANSITION	
	STA 676+85 TO 676+97.5 LT	1	TRANSITION	
	TOTAL	285		
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL			
	<u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>	
	STA 664+00 TO 681+12 LT	22		
	TOTAL	22		
X8360310	LIGHT POLE FOUNDATION, 30" DIAMETER, SPECIAL			
	<u>LOCATION</u>	<u>FOOT</u>	<u>COMMENTS</u>	
	STA 666+26 49' LT	9.5		
	STA 667+67 49' LT	9.5		
	STA 669+11 49' LT	9.5		
	STA 670+51 49' LT	9.5		
	STA 671+92 49' LT	9.5		
	STA 673+34 49' LT	9.5		
	STA 674+75 49' LT	9.5		
	STA 676+26 49' LT	9.5		
	TOTAL	76		
X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE			
	<u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>	
	STA 666+26 49' LT	1		
	STA 667+67 49' LT	1		
	STA 669+11 49' LT	1		
	STA 670+51 49' LT	1		
	STA 671+92 49' LT	1		
	STA 673+34 49' LT	1		
	STA 674+75 49' LT	1		
	STA 676+26 49' LT	1		
	TOTAL	8		
Z0028415	GEOTECHNICAL REINFORCEMENT			
	<u>LOCATION</u>	<u>SQ YD</u>	<u>COMMENTS</u>	
	STA 667+25 TO 668+75 LT	252		
	TOTAL	252		

EARTHWORK SCHEDULE									
LOCATION	20200100	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)				
						CU YD	CU YD	CU YD	CU YD
						STA 665+00 TO 677+00	LT	970	725
TOTALS		970	725	555	+170				

NOTES:
 1. EXCAVATION USED AS EMBANKMENT = EARTH EXCAVATION * 0.75
 2. TABLE DOES NOT INCLUDE ANY EXCAVATION THAT IS INCLUDED IN OTHER PAY ITEMS

PRINT DRIVER = L:\0-6-2018\1140113
 USER NAME = PJL
 PLOT DATE = 3/14/2018 9:21:30 AM



USER NAME = kjk	DESIGNED - SKM/KJK	REVISED -
ESCA PROJECT NO. 1140113	DRAWN - SKM/KJK	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:21:30 AM	DATE - 12/17	REVISED -

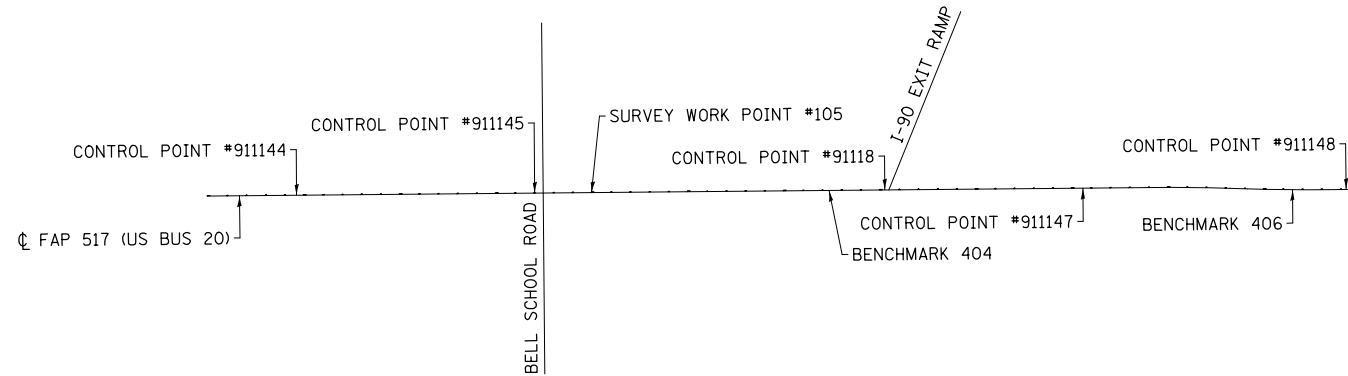
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NA SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

HORIZONTAL & VERTICAL CONTROL



CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
US20BUS	220	220	221	222	223
US20BUS	230	230	231	232	233

Chain US20BUS contains:
CUR 220 CUR 230

Beginning chain US20BUS description
=====

Curve Data

Curve 220
P.I. Station 696+28.30 N 2,043,940.5691 E 2,623,701.8570
Delta = 2° 08' 35.14" (RT)
Degree = 0° 32' 32.26"
Tangent = 197.6181'
Length = 395.1902'
Radius = 10,565.4342'
External = 1.8480'
Long Chord = 395.1672'
Mid. Ord. = 1.8477'
P.C. Station 694+30.68 N 2,043,903.5067 E 2,623,507.7454
P.T. Station 698+25.87 N 2,043,970.3467 E 2,623,897.2188
C.C. N 2,033,525.5468 E 2,625,489.2472

Course from PT 220 to PC 230 N 81° 20' 00.62" E Dist 91.5607'

Curve Data

Curve 230
P.I. Station 701+28.35 N 2,044,015.9259 E 2,624,196.2493
Delta = 2° 08' 01.77" (LT)
Degree = 0° 30' 21.19"
Tangent = 210.9235'
Length = 421.7982'
Radius = 11,325.7964'
External = 1.9639'
Long Chord = 421.7738'
Mid. Ord. = 1.9635'
P.C. Station 699+17.43 N 2,043,984.1434 E 2,623,987.7341
P.T. Station 703+39.23 N 2,044,055.4502 E 2,624,403.4365
C.C. N 2,055,180.6238 E 2,622,281.1322

Course from PT 230 to PC 240 N 79° 11' 58.86" E Dist 2,778.4623'

=====

Ending chain US20BUS description

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
404	2043588.1503	2621844.8694	844.9183	US20BUS	677+38.16	2.1046' LT	I90 OVERPASS PIER, CHISELED SQUARE
406	2043956.4137	2624229.6185	810.8260	US20BUS	701+51.02	66.2838' RT	CHIS SQ BOX CULVERT HEADWALL E-LEVEL

PRINT DRIVER = L:\ESCA\Projects\114013\114013.dwg
 PLOT DATE = 3/14/2018 9:21:36 AM
 PLOT SCALE = 0.1667' / 1"



USER NAME = kjk
 ESCA PROJECT NO. 114013
 PLOT SCALE = 0.1667' / 1"
 PLOT DATE = 3/14/2018 9:21:36 AM

DESIGNED - KJK
 DRAWN - KJK
 CHECKED - KAH
 DATE - 07/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

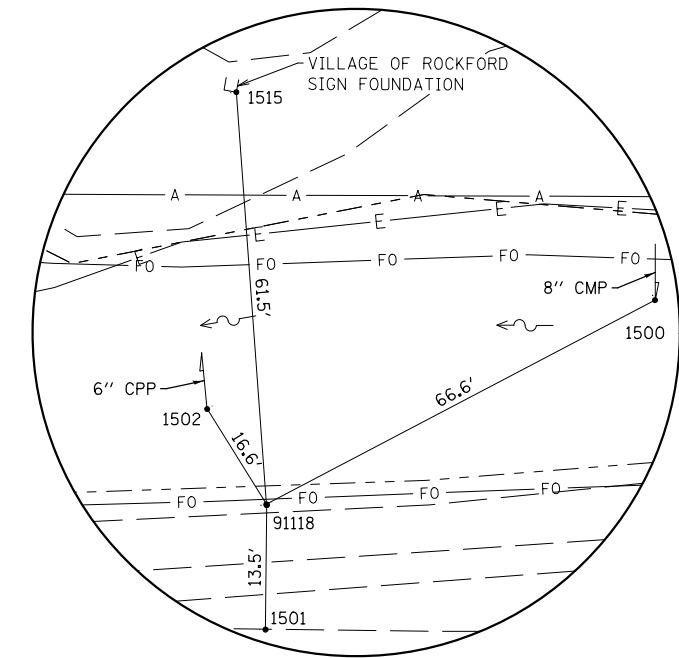
HORIZONTAL AND VERTICAL CONTROL

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	18
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64L90	

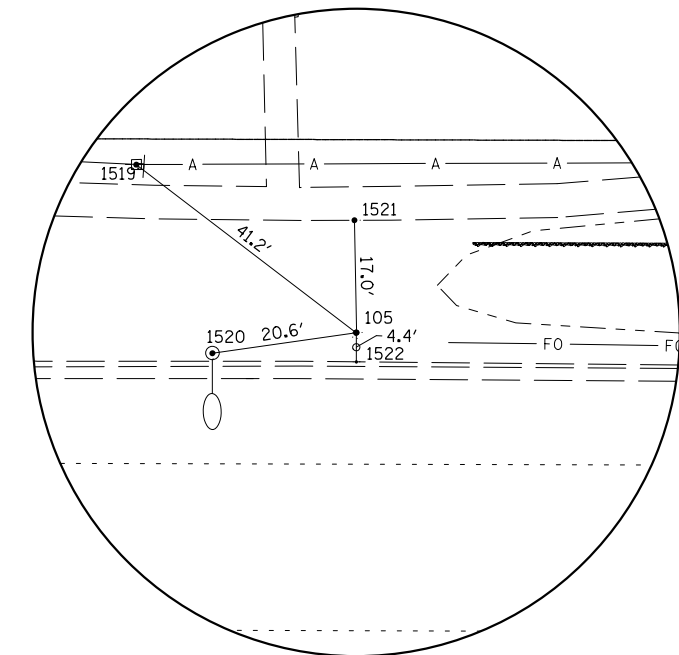
HORIZONTAL & VERTICAL CONTROL

REFERENCE TIES						
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION
1500	2043731.5294	2622172.4930	US20BUS	680+86.86	81.4952' LT	TOP EDGE OF 8" CMP CULVERT
1501	2043677.3475	2622124.0299	US20BUS	680+29.10	37.3637' LT	CONC EOP US BUS 20
1502	2043702.7160	2622110.5010	US20BUS	680+20.57	64.8194' LT	SE CORNER OF CONC UNDERDRAIN
1504	2043440.4340	2621314.0323	US20BUS	671+89.04	43.4344' RT	FOUNDATION OF LIGHT POLE
1505	2043425.0258	2621336.1718	US20BUS	672+07.90	62.7213' RT	FOUNDATION OF LIGHT POLE
1506	2043431.8459	2621363.0842	US20BUS	672+35.61	61.0696' RT	EOP MULTI USE PATH
1507	2043438.9367	2621427.6852	US20BUS	673+00.40	66.2203' RT	FOUNDATION OF LIGHT POLE
1508	2043683.8820	2621925.4330	US20BUS	678+35.25	81.0283' LT	SE CORNER OF BRIDGE ABUTMENT
1509	2043646.4710	2621991.1599	US20BUS	678+92.80	31.9543' LT	EOP US BUS 20
1510	2043677.7164	2621994.8497	US20BUS	679+02.28	61.9533' LT	SW CORNER OF HEADWALL FOR 48" RCP
1511	2043613.4093	2621637.3499	US20BUS	675+39.06	65.8348' LT	CAP & NAIL IN 15" DIA TREE
1512	2043638.8820	2621710.1850	US20BUS	676+15.38	77.1956' LT	CAP & NAIL IN POWER POLE
1513	2043607.0930	2621720.6160	US20BUS	676+19.67	44.0144' LT	FOUNDATION OF LIGHT POLE
1514	2043624.6830	2621700.7270	US20BUS	676+03.43	65.0223' LT	CENTER OF SANITARY SEWER MANHOLE
1515	2043494.9550	2621135.5850	US20BUS	670+23.99	43.5862' LT	FOUNDATION OF VILLAGE OF ROCKFORD SIGN
1516	2043535.1734	2621238.8770	US20BUS	671+32.99	63.719' LT	NAIL & CAP IN BASE OF TREE
1517	2043509.1970	2621195.5140	US20BUS	670+85.52	46.3361' LT	BASE OF SISTER CITIES SIGN
1518	2043513.7180	2621210.9660	US20BUS	671+01.55	47.8789' LT	CENTER OF TRAFFIC SIGNAL HANDHOLE
1519	2043422.9490	2620584.4860	US20BUS	664+69.16	76.2141' LT	CAP & NAIL IN FOUNDATION OF ELECTRIC POLE
1520	2043397.6850	2620600.8530	US20BUS	664+80.50	48.3289' LT	FOUNDATION OF LIGHT POLE
1521	2043420.7425	2620616.4540	US20BUS	665+00.15	68.0513' LT	EOP SIDEWALK
1522	2043400.5765	2620622.5978	US20BUS	665+02.40	47.0909' LT	BACK OF CURB



**HORIZONTAL CONTROL
POINT NO. 91118**

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
101	2043438.1111	2621361.4903	850.5700	US20BUS	672+35.22	54.6166' RT	TOPO SURVEY POINT, REBAR W/ YELLOW CAP
102	2043657.2082	2621989.0764	838.0100	US20BUS	678+92.76	42.8917' LT	TOPO SURVEY POINT, REBAR W/ YELLOW CAP
103	2043603.8878	2621703.8924	840.5800	US20BUS	676+02.64	44.0025' LT	TOPO SURVEY POINT, REBAR W/ YELLOW CAP
104	2043506.3030	2621196.8290	854.5700	US20BUS	670+86.27	43.2468' LT	TOPO SURVEY POINT, REBAR W/ YELLOW CAP
105	2043404.7270	2620621.1940	865.2800	US20BUS	665+01.80	51.431' LT	TOPO SURVEY POINT, REBAR W/ YELLOW CAP



**SURVEY WORK POINT
NO. 105**

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
91118	2043690.3132	2622121.2017	837.4553	US20BUS	680+28.75	50.6298' LT	PIN W/IDOT YELLOW CAP E-LEVEL
911144	2043136.7017	2619108.2509	867.9980	US20BUS	649+65.44	71.9076' LT	PIN W/IDOT YELLOW CAP E-LEVEL
911145	2043230.6169	2620353.0772	863.6187	US20BUS	662+05.79	69.3055' RT	PIN W/IDOT YELLOW CAP E-LEVEL
911147	2043769.7002	2623157.2418	837.9989	US20BUS	690+61.30	65.6967' RT	PIN W/IDOT YELLOW CAP E-LEVEL
911148	2044016.9052	2624500.4771	814.8865	US20BUS	704+27.33	56.0463' RT	PIN W/IDOT YELLOW CAP E-LEVEL



USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 0.1667' / in.
 PLOT DATE = 3/14/2018 9:21:38 AM

DESIGNED - KJK
 DRAWN - KJK
 CHECKED - KAH
 DATE - 07/17

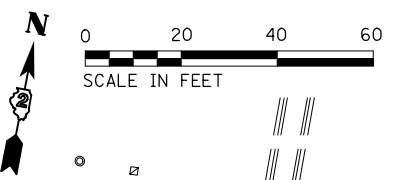
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HORIZONTAL AND VERTICAL CONTROL

SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

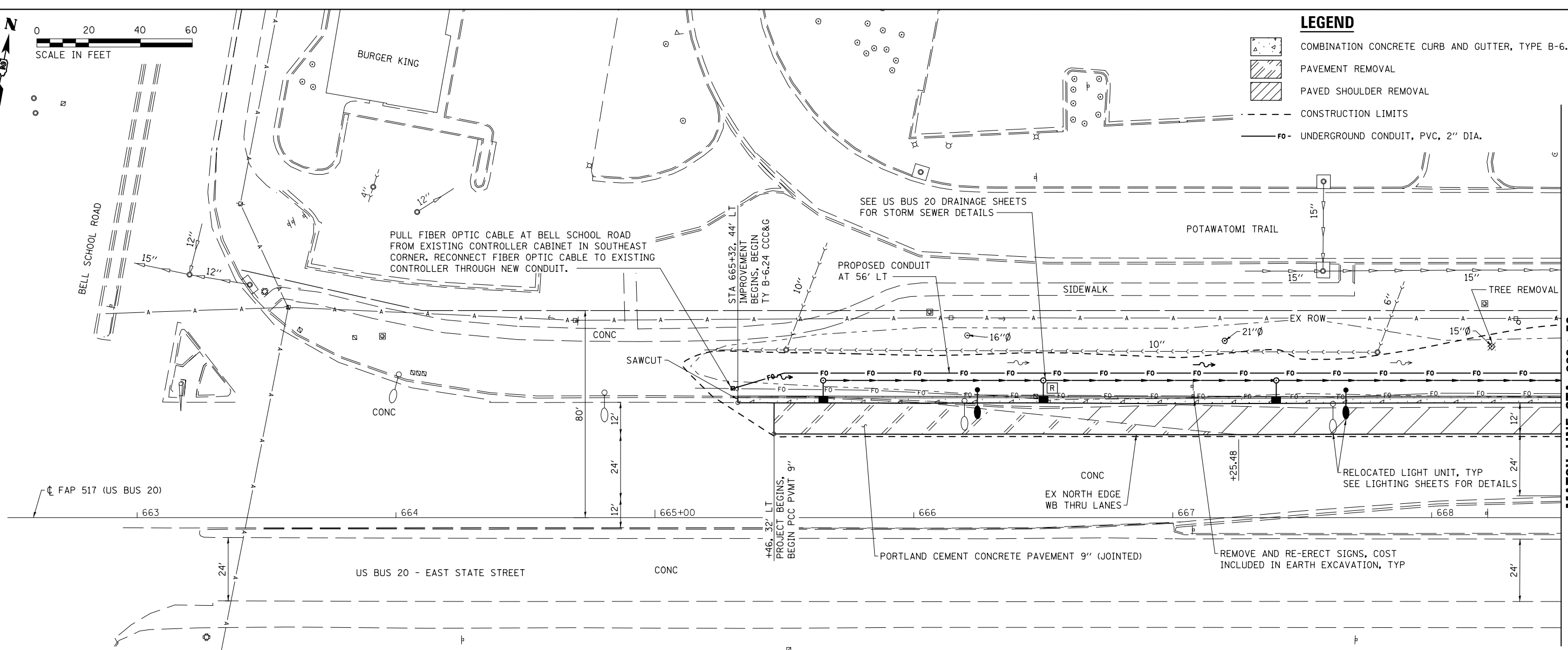


LEGEND

- COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- CONSTRUCTION LIMITS
- FO - UNDERGROUND CONDUIT, PVC, 2" DIA.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	NOTARIZED	
NOTE BOOK NO.	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	NOTARIZED	
NOTE BOOK NO.	NOTARIS CHPO	



MATCH LINE STA 668+50
SEE SHEET 21 FOR CONT.

875	SEE PAVEMENT ELEVATIONS SHEET FOR PROPOSED AUXILIARY LANE ELEVATIONS																				875
870																					870
865																					865
860																					860
855																					855
850																					850
	864.66	864.83	865.13	865.10	864.99	864.167 (EX N EDGE WB THRU)	864.42	863.90	863.25	862.48	861.67	860.78									
	663+00	663+50	664+00	664+50	665+00	665+50	666+00	666+50	667+00	667+50	668+00	668+50									



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

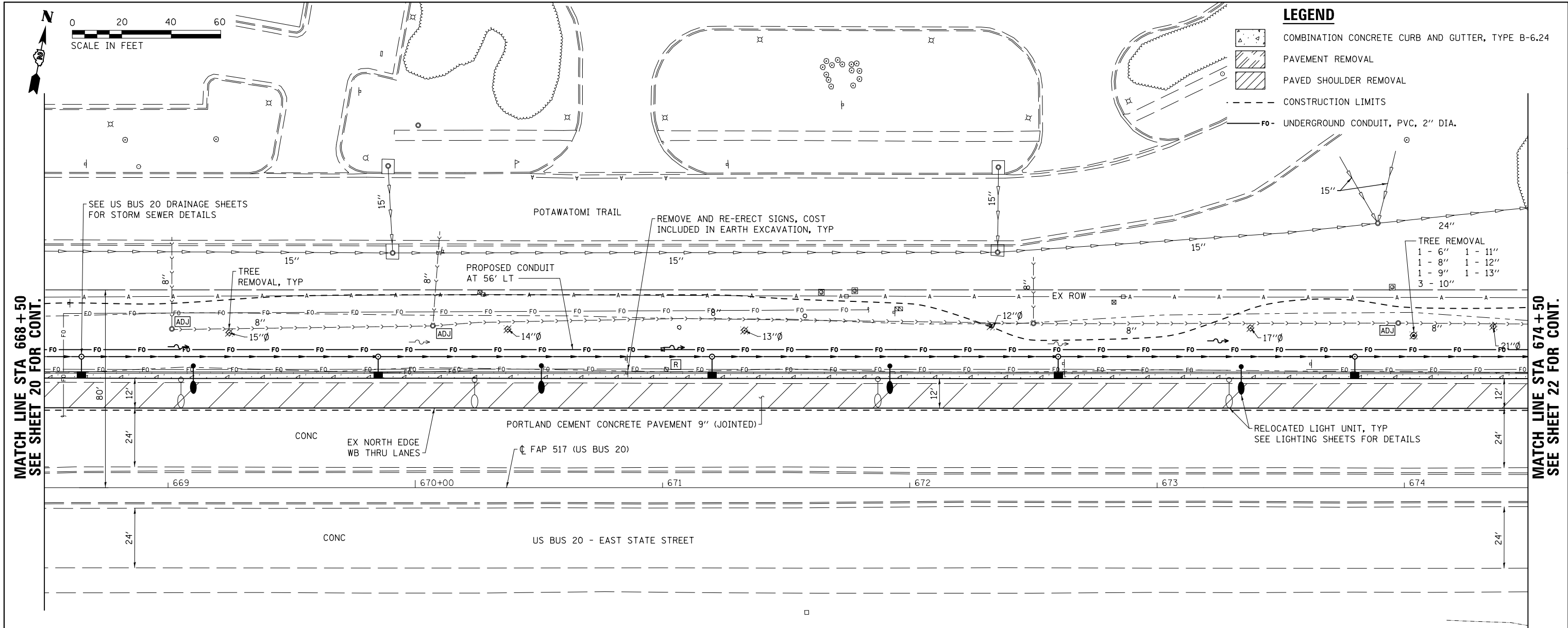
US BUS 20 PLAN AND PROFILE

SCALE: AS SHOWN SHEET 1 OF 3 SHEETS STA. 663+00 TO STA. 668+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	20
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 64L90				

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	DESIGNED
	NO.
	CARD FILE NAME

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE
	NOTATION
	CHKD
	NO.



MATCH LINE STA 668+50
SEE SHEET 20 FOR CONT.

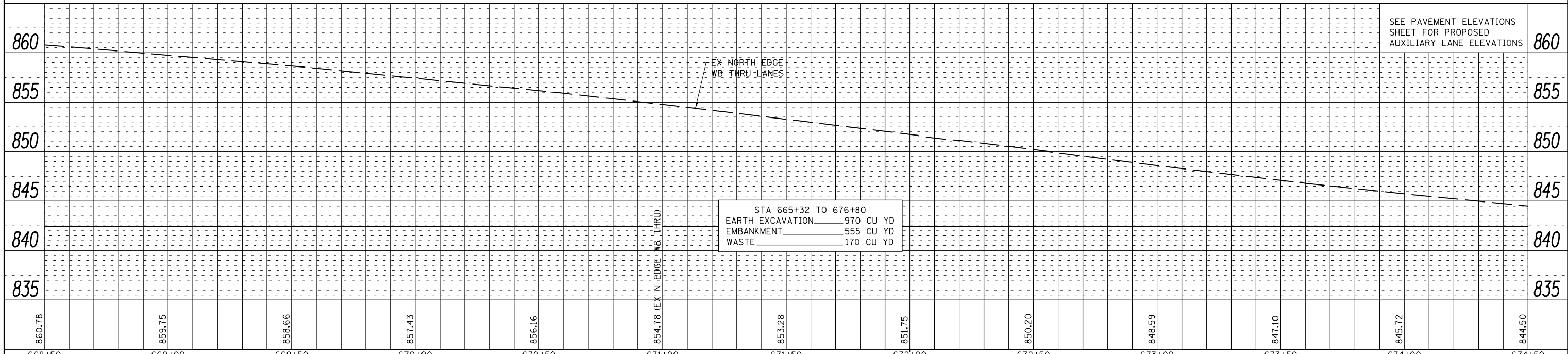
MATCH LINE STA 674+50
SEE SHEET 22 FOR CONT.

LEGEND

- [Symbol] COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- [Symbol] PAVEMENT REMOVAL
- [Symbol] PAVED SHOULDER REMOVAL
- [Symbol] CONSTRUCTION LIMITS
- [Symbol] F0- UNDERGROUND CONDUIT, PVC, 2" DIA.

TREE REMOVAL

- 1 - 6" 1 - 11"
- 1 - 8" 1 - 12"
- 1 - 9" 1 - 13"
- 3 - 10"



668+50	669+00	669+50	670+00	670+50	671+00	671+50	672+00	672+50	673+00	673+50	674+00	674+50
860.78	859.75	858.66	857.43	856.16	854.78 (EX N EDGE WB THRU)	853.28	851.75	850.20	848.59	847.10	845.72	844.50



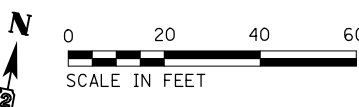
USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US BUS 20 PLAN AND PROFILE

SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. 668+50 TO STA. 674+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	21
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



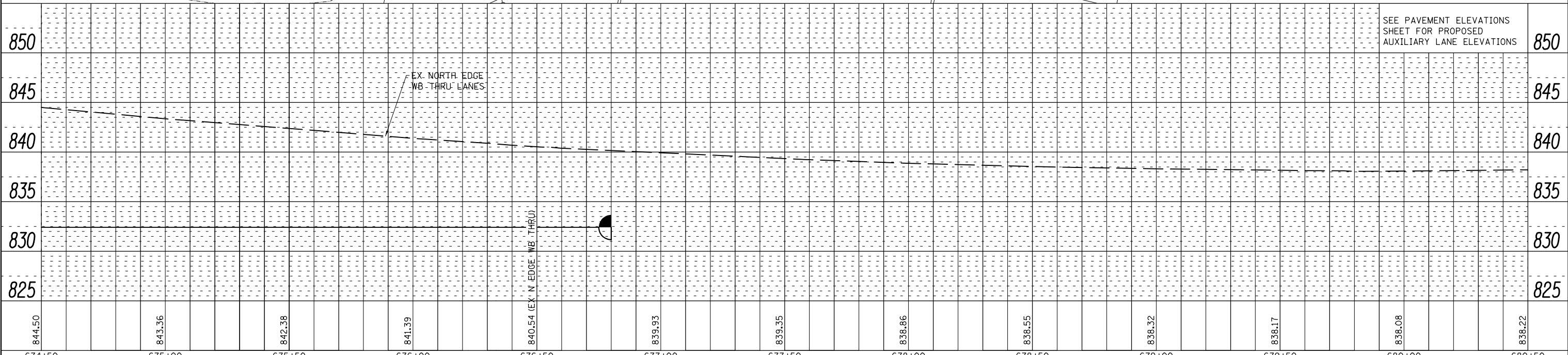
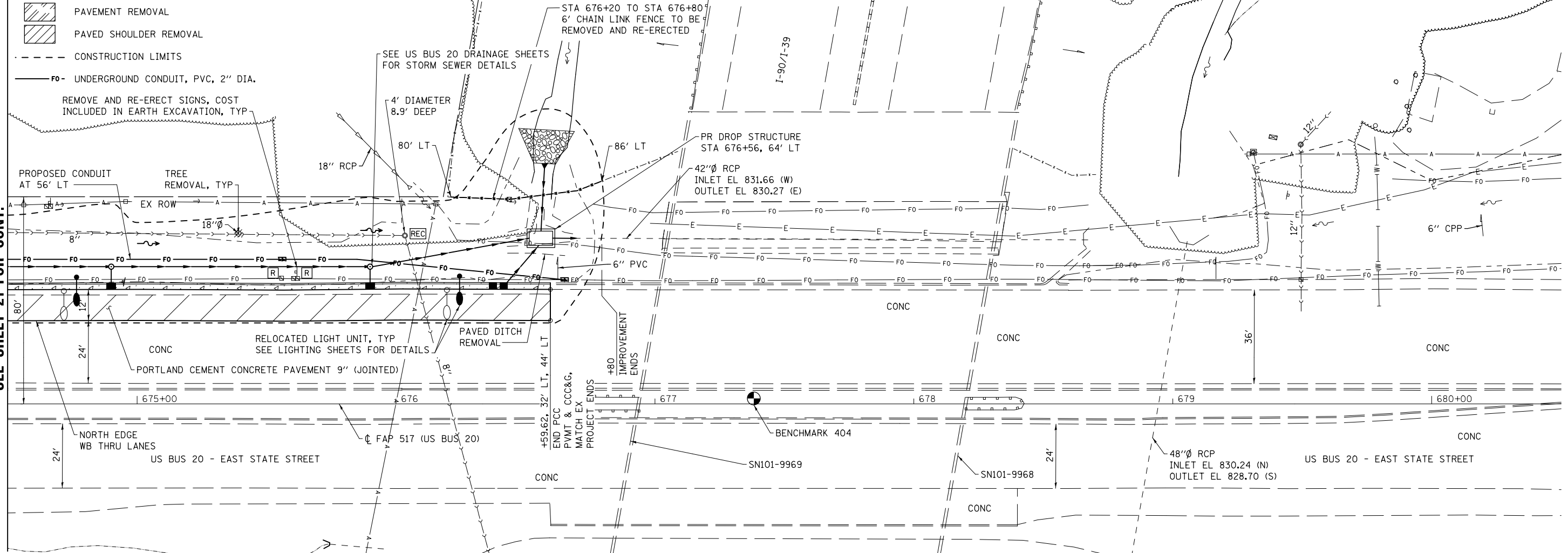
BENCHMARK 404 EL 844.92 (NAVD88)
 CHISELED SQUARE UNDERNEATH THE I-90 BRIDGE
 OVER EAST STATE STREET, NORTH EDGE OF PIER WALL,
 WB SIDE OF EAST STATE STREET, STA. 677+38.16 2.10' LT.

LEGEND

- COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- CONSTRUCTION LIMITS
- FO- UNDERGROUND CONDUIT, PVC, 2" DIA.

REMOVE AND RE-ERECT SIGNS, COST INCLUDED IN EARTH EXCAVATION, TYP

MATCH LINE STA 674+50
SEE SHEET 21 FOR CONT.



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	ALIGNMENT	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATION	
	CHPO	
	NO.	



USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 3/14/2018

DESIGNED -	KJK	REVISED -	
DRAWN -	KJK	REVISED -	
CHECKED -	ELH	REVISED -	
DATE -	03/18	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US BUS 20 PLAN AND PROFILE

SCALE: AS SHOWN SHEET 3 OF 3 SHEETS STA. 674+50 TO STA. 680+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	22
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE IDOT DISTRICT TWO OFFICE AT (815) 284-5469 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
2. THE CONTRACTOR MUST COORDINATE ALL LANE CLOSURES WITH THE ENGINEER. ALL ROADS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES UNLESS OTHERWISE DESIGNATED IN THE PLANS OR BY THE ENGINEER. WHEN NECESSARY TO CLOSE ONE LANE DUE TO CONSTRUCTION ON US BUSINESS 20, IT SHALL ONLY BE DONE AT NIGHT, AND THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE LANE.
3. ALL "ROAD CONSTRUCTION AHEAD" WARNING SIGNS W20-I103(O)-48 SHALL BE EQUIPPED WITH HIGH INTENSITY FLASHING LIGHTS.
4. DIRECTION INDICATOR BARRICADES SHALL BE USED AT TAPER LOCATIONS AS DIRECTED BY THE ENGINEER.
5. TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE 'A' LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
6. THE CONTRACTOR SHALL PROVIDE THE NEEDED CLEARANCE OR BACKFILL TO ALL DROPOFFS OR OTHER METHODS APPROVED BY THE ENGINEER TO MEET IDOT POLICY REQUIREMENTS IN AREAS WHERE TEMPORARY TRAFFIC BARRIER IS NOT PROPOSED BUT WOULD OTHERWISE BE REQUIRED IN ORDER TO PROVIDE A SAFE CONDITION FOR MOTORISTS AND THE PUBLIC.
7. ONE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE LOCATED ON WB US BUSINESS 20 TWO WEEKS PRIOR TO CONSTRUCTION AND THROUGHOUT THE DURATION OF THE PROJECT. THE EXACT LOCATION AND MESSAGE SHALL BE APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL OBTAIN, ERECT, MAINTAIN, AND REMOVE ALL SIGNS, BARRICADES, FLAGGERS, AND OTHER TRAFFIC CONTROL DEVICES AS MAY BE NECESSARY FOR THE PURPOSE OF REGULATING, WARNING OR GUIDING TRAFFIC. PLACEMENT AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PARTS OF ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS AND THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
9. THE "WORKERS" (W21-I110(O)-48) SIGNS SHALL BE COVERED WHEN WORKERS ARE NOT PRESENT.
10. A MINIMUM ONE-FOOT SHY DISTANCE BETWEEN BARRICADES OR TEMPORARY CONCRETE BARRIER AND THE TEMPORARY PAVEMENT MARKING SHALL BE PROVIDED THROUGHOUT.
11. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET. THE ENGINEER SHALL BE THE SOLE JUDGE IN DETERMINING WHETHER TRAFFIC CONTROL REQUIREMENTS ARE MET.
12. THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE EXISTING PAVEMENT AS DESCRIBED IN THE GENERAL NOTES ON SHEET 3.
13. PROVIDE AND INSTALL TYPE C BARRIER WALL REFLECTORS ON THE TOP AND SIDE OF EACH TEMPORARY CONCRETE BARRIER SECTION.
14. THE REFLECTORS SHALL BE REMOVED FROM THE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS BETWEEN THE WESTBOUND THRU LANES FROM STA 664+00 TO 681+12 PRIOR TO NARROWING THE LANES, PAID FOR AS RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL. TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED AT 40' CENTERS BETWEEN THE RELOCATED LANES WITHIN THESE LIMITS. ONCE NARROW LANES ARE NO LONGER BEING USED, REFLECTORS SHALL BE REPLACED IN THE EXISTING MARKERS, PAID FOR AS RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT.
15. THE PATCHES SHALL BE CONSTRUCTED ON THE WESTBOUND THROUGH LANES NEAR STATION 668+20 PRIOR TO PLACING TEMPORAY CONCRETE BARRIER.

PRINT DRIVER = L:\05-68101\1819
 USER NAME = KJK
 PLOT DATE = 3/14/2018 9:21:44 AM



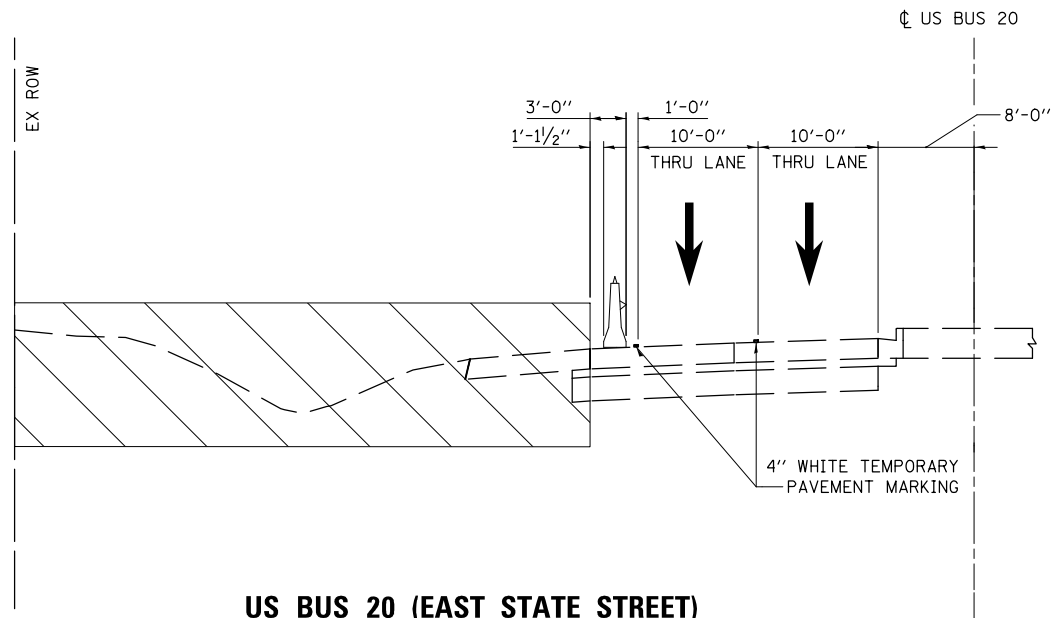
USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 114013	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:21:44 AM	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

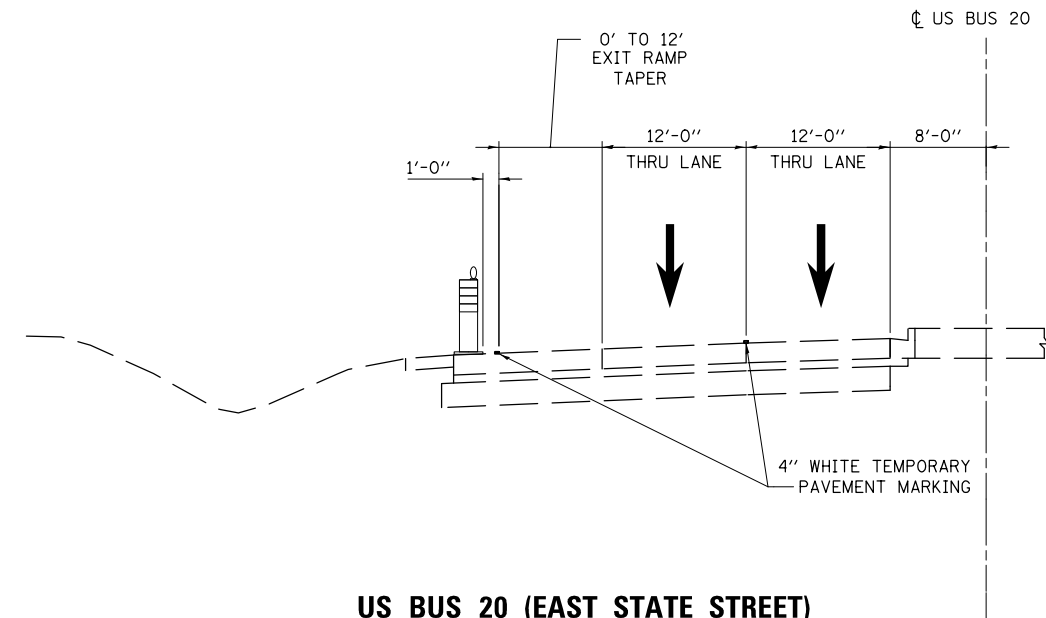
MAINTENANCE OF TRAFFIC

SCALE: NONE SHEET NO. 1 OF 5 SHEETS STA. TO STA.

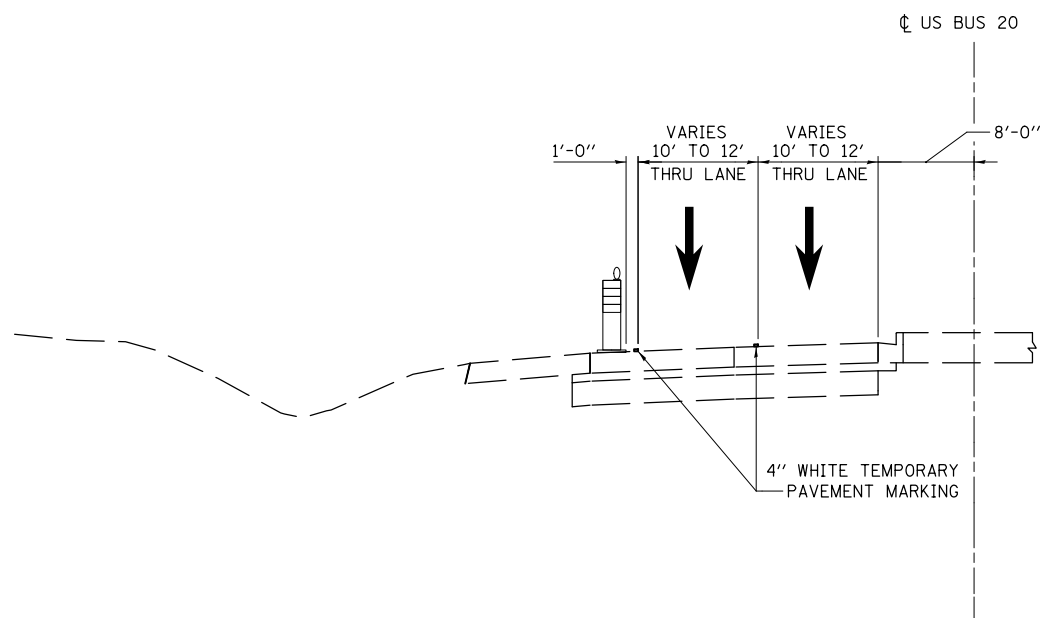
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	



US BUS 20 (EAST STATE STREET)
STA 665+22.5 TO STA 677+10
LOOKING EAST

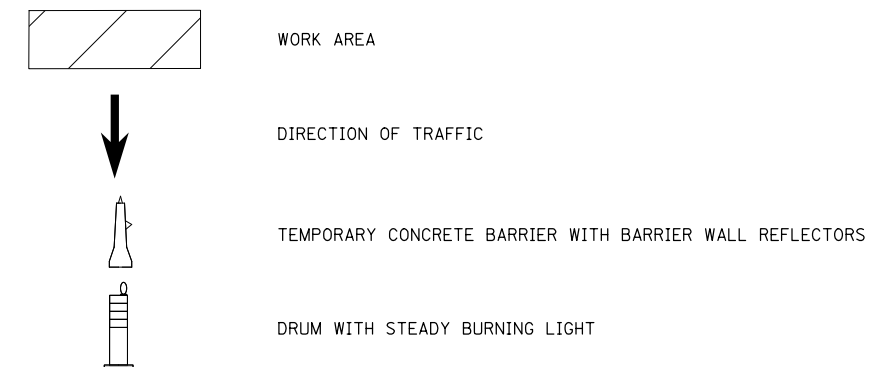


US BUS 20 (EAST STATE STREET)
STA 679+10 TO STA 681+12
LOOKING EAST



US BUS 20 (EAST STATE STREET)
BEGIN TAPER AT STA 677+10 & END TAPER AT STA 679+10
LOOKING EAST

MOT LEGEND



PRINT DRIVER = L:\E-Books\10179
 ESCA PROJECT NO. 1140.13
 SCALE NAME = PLOT
 FILE NAME = 20180717_08:21:46 AM\1140.13.dwg



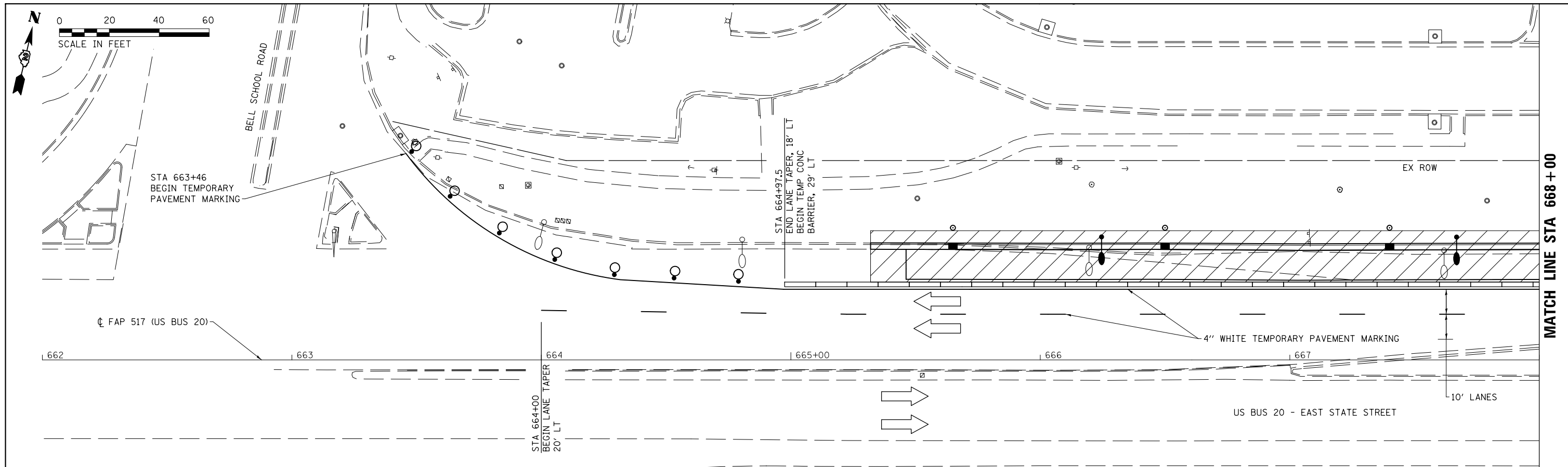
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ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
PLOT SCALE = 0.1667' / 1" =	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:21:46 AM	DATE - 07/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

SCALE: NONE SHEET NO. 2 OF 5 SHEETS STA. TO STA.

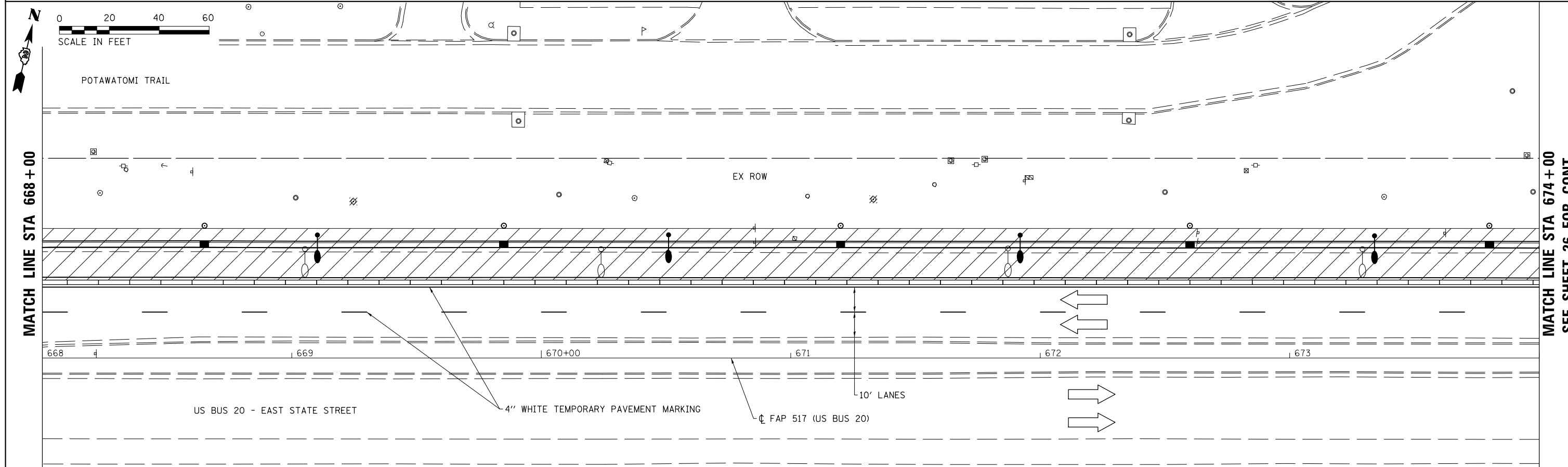
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517	(2Y-1)W	WINNEBAGO	69	24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	



MATCH LINE STA 668+00

MOT LEGEND

	TEMPORARY CONCRETE BARRIER WITH REFLECTORS ON TRAFFIC SIDE		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3		DRUMS WITH STEADY BURNING LIGHT AT 20' CTS.		WORK AREA
	DIRECTION OF TRAFFIC FLOW		TYPE III BARRICADE		SIGN ON PORTABLE OR PERMANENT SUPPORT		

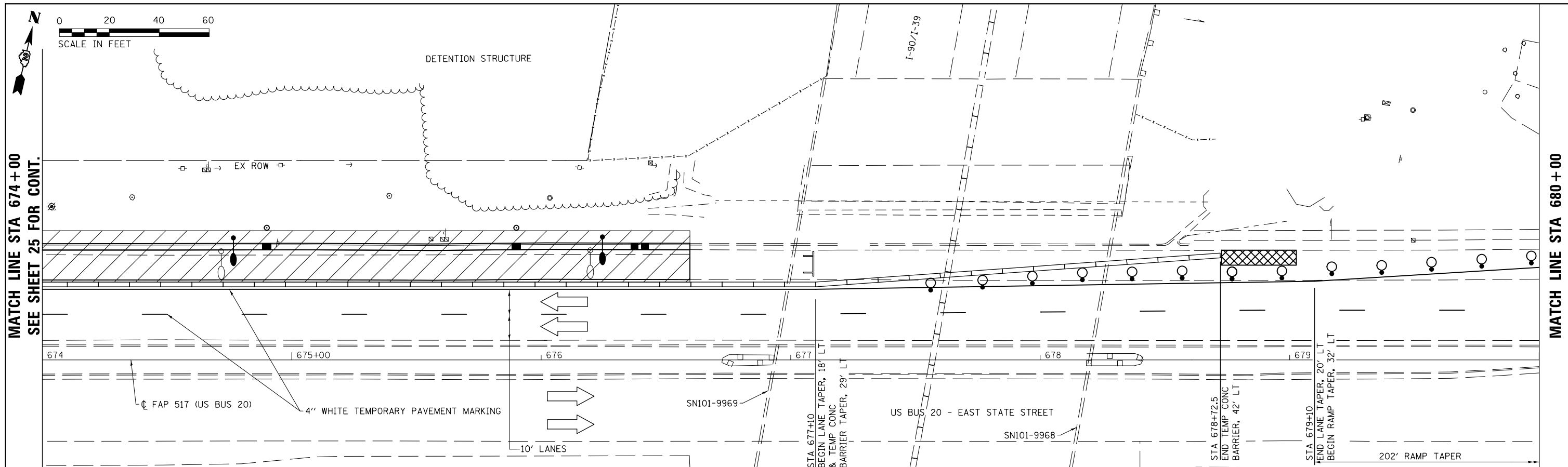


MATCH LINE STA 668+00

MATCH LINE STA 674+00
SEE SHEET 26 FOR CONT.

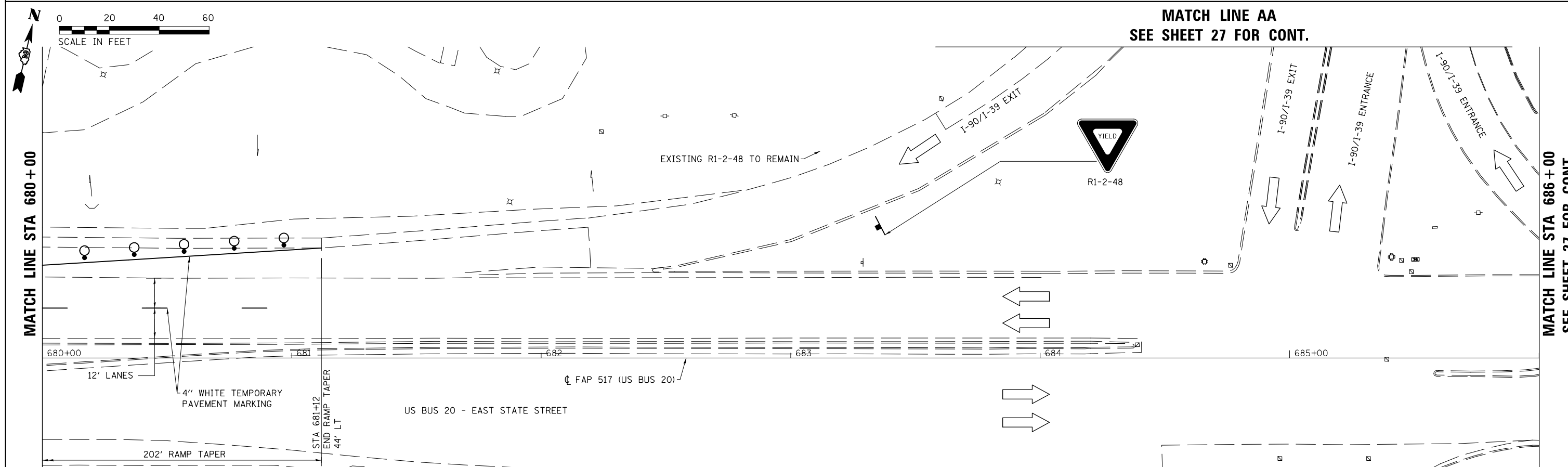
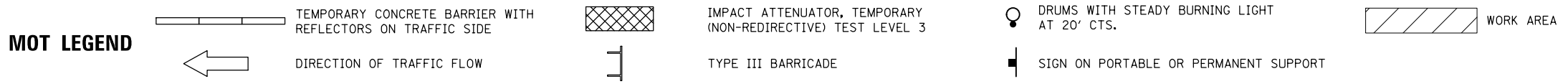
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	ESCA PROJECT NO. 1140.13	DRAWN - KAH/KJK	REVISED -					517	(2Y-1)W	WINNEBAGO	69	25
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -	CONTRACT NO. 64L90									
PLOT DATE = 3/14/2018	DATE - 03/18	REVISED -	ILLINOIS FED. AID PROJECT									

SCALE: AS SHOWN SHEET 3 OF 5 SHEETS STA. 662+00 TO STA. 674+00



MATCH LINE STA 674+00
SEE SHEET 25 FOR CONT.

MATCH LINE STA 680+00



MATCH LINE STA 680+00

MATCH LINE STA 686+00
SEE SHEET 27 FOR CONT.



USER NAME = kjk
ESCA PROJECT NO. 1140.13
PLOT SCALE = 40.0000' / in.
PLOT DATE = 3/14/2018

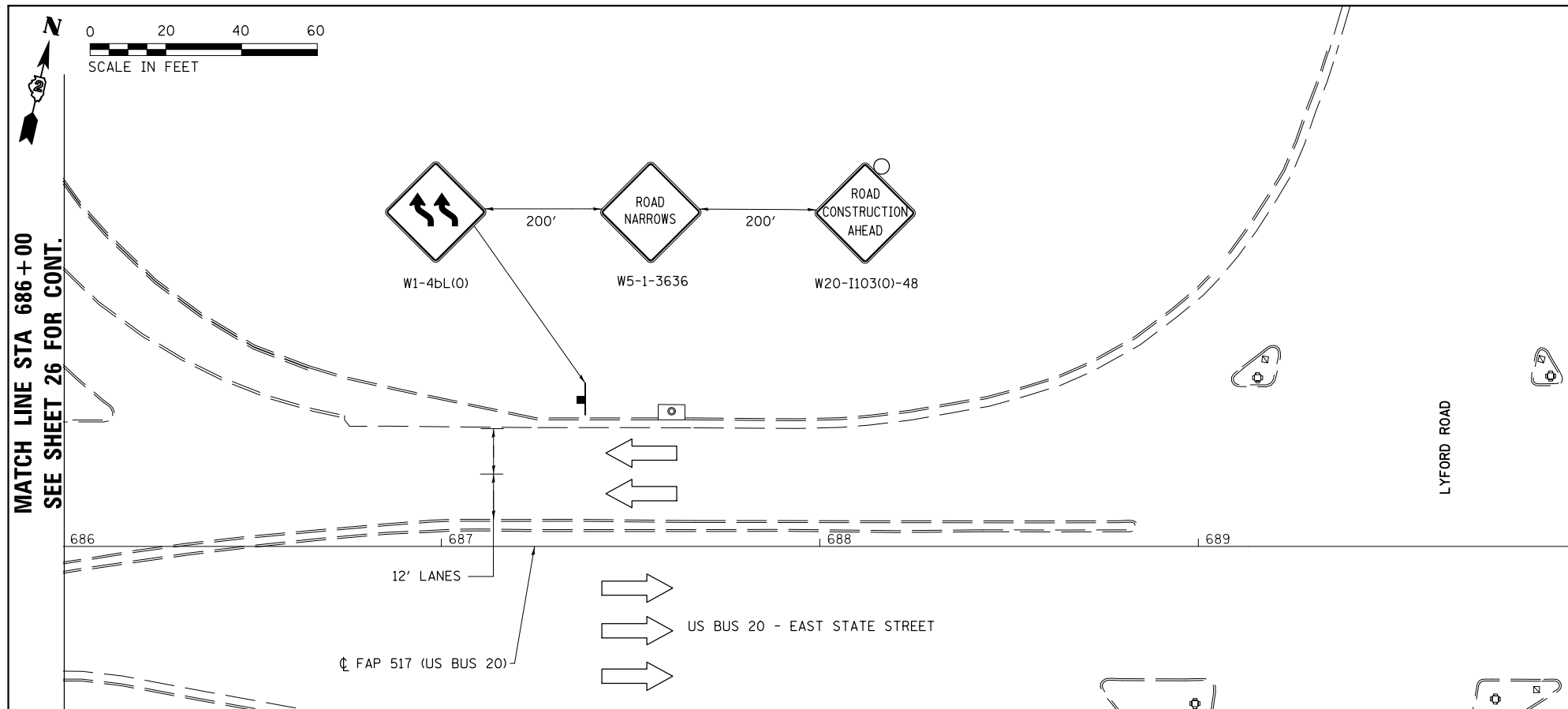
DESIGNED - ELH
DRAWN - KAH/KJK
CHECKED - ELH
DATE - 03/18

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

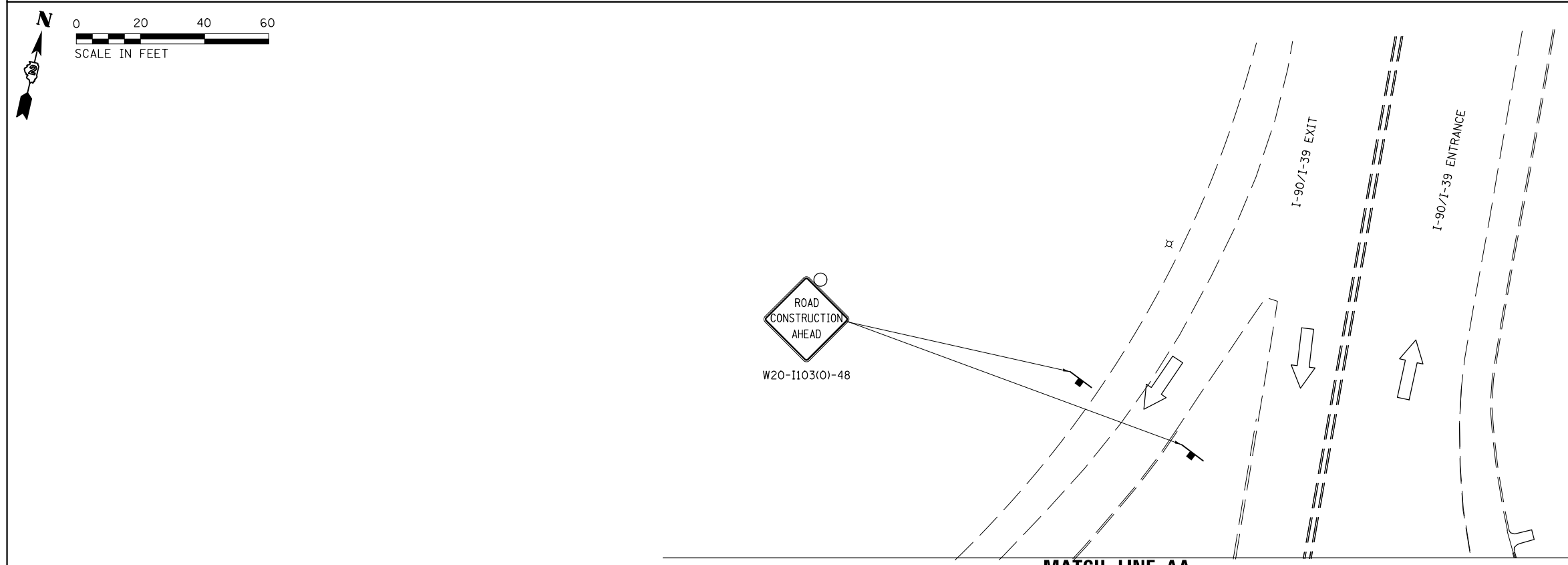
MAINTENANCE OF TRAFFIC
SCALE: AS SHOWN SHEET 4 OF 5 SHEETS STA. 674+00 TO STA. 686+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	26
CONTRACT NO. 64L90				
ILLINOIS FED. AID PROJECT				



MOT LEGEND

	TEMPORARY CONCRETE BARRIER WITH REFLECTORS ON TRAFFIC SIDE		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3		DRUMS WITH STEADY BURNING LIGHT AT 20' CTS.		WORK AREA
	DIRECTION OF TRAFFIC FLOW		TYPE III BARRICADE		SIGN ON PORTABLE OR PERMANENT SUPPORT		



MATCH LINE AA
SEE SHEET 26 FOR CONT.



USER NAME = kjk	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KAH/KJK	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018	DATE - 03/18	REVISED -

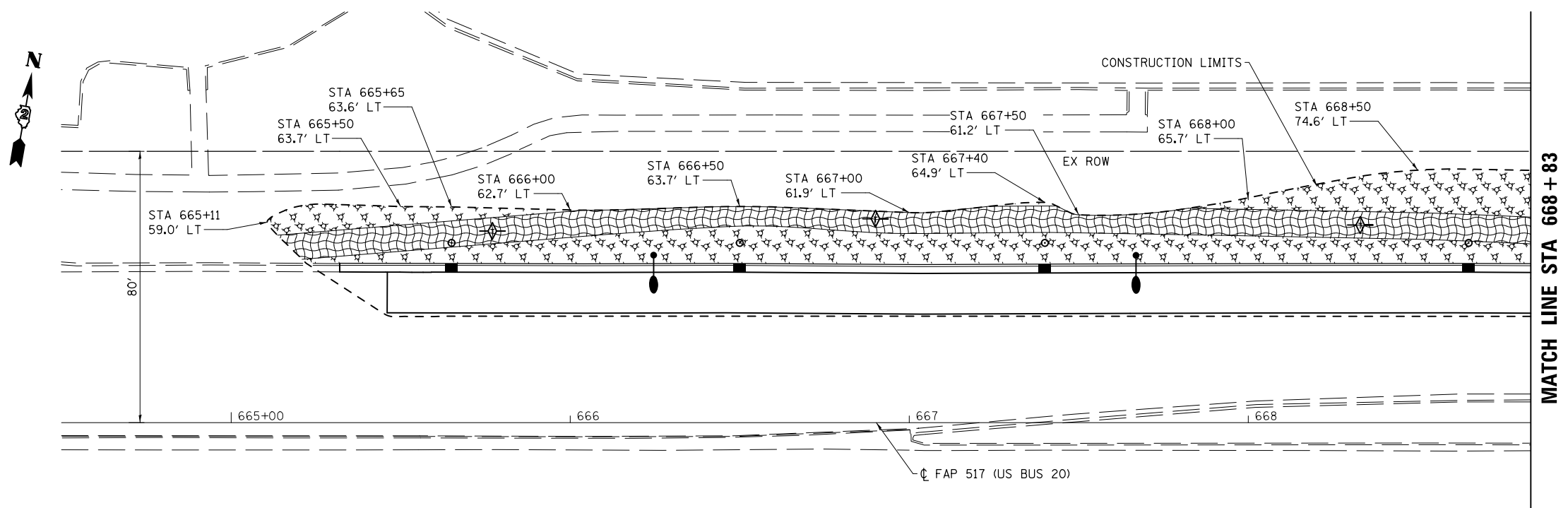
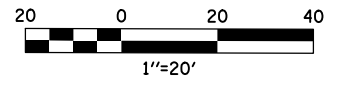
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

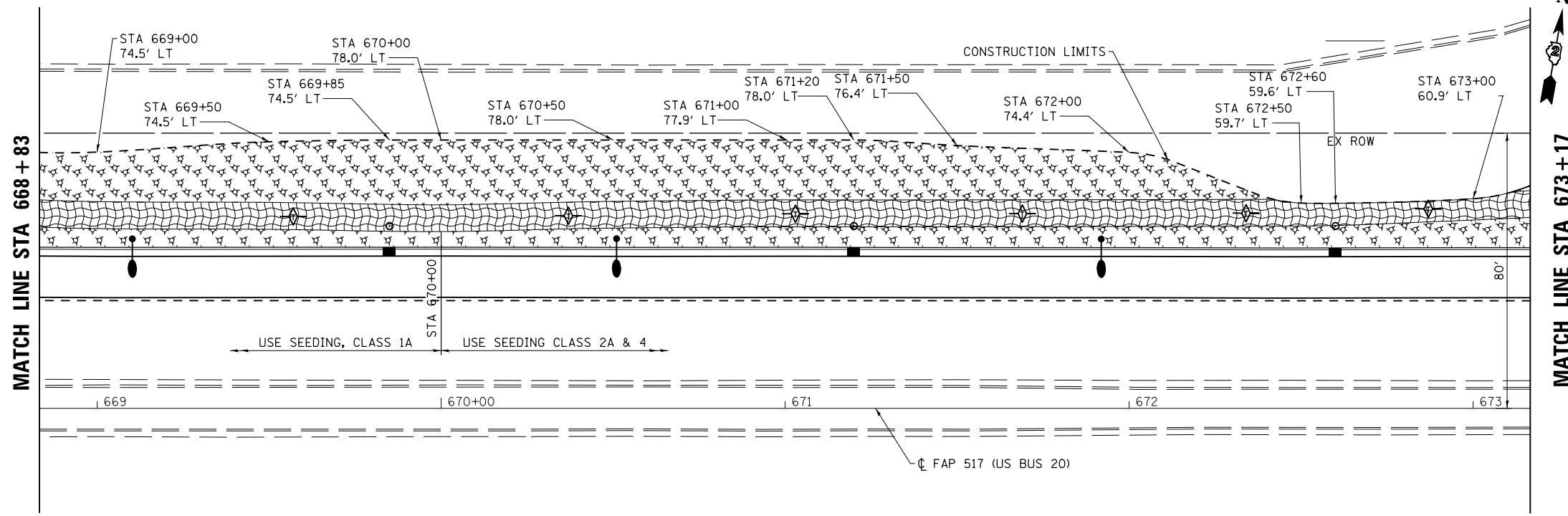
SCALE: AS SHOWN SHEET 5 OF 5 SHEETS STA. 686+00 TO STA. 690+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	27
CONTRACT NO. 64L90				
ILLINOIS FED. AID PROJECT				

- LEGEND**
- TEMPORARY DITCH CHECK
 - INLET AND PIPE PROTECTION
 - STONE RIPRAP, CLASS A4
 - EROSION CONTROL BLANKET
 - MULCH, METHOD 3



MATCH LINE STA 668 + 83



MATCH LINE STA 673 + 17
SEE SHEET 29 FOR CONT.

EROSION CONTROL PLAN

PRINT DRIVER = L:\05-EROSION\114013\114013.dwg
PLOT DATE = 3/14/2018 9:21:53 AM
SCALE NAME = ESCA-18x24-1/8\"/>



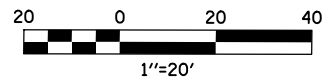
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PLOT SCALE = 0.1667' / 1\"/>		
PLOT DATE = 3/14/2018 9:21:53 AM	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

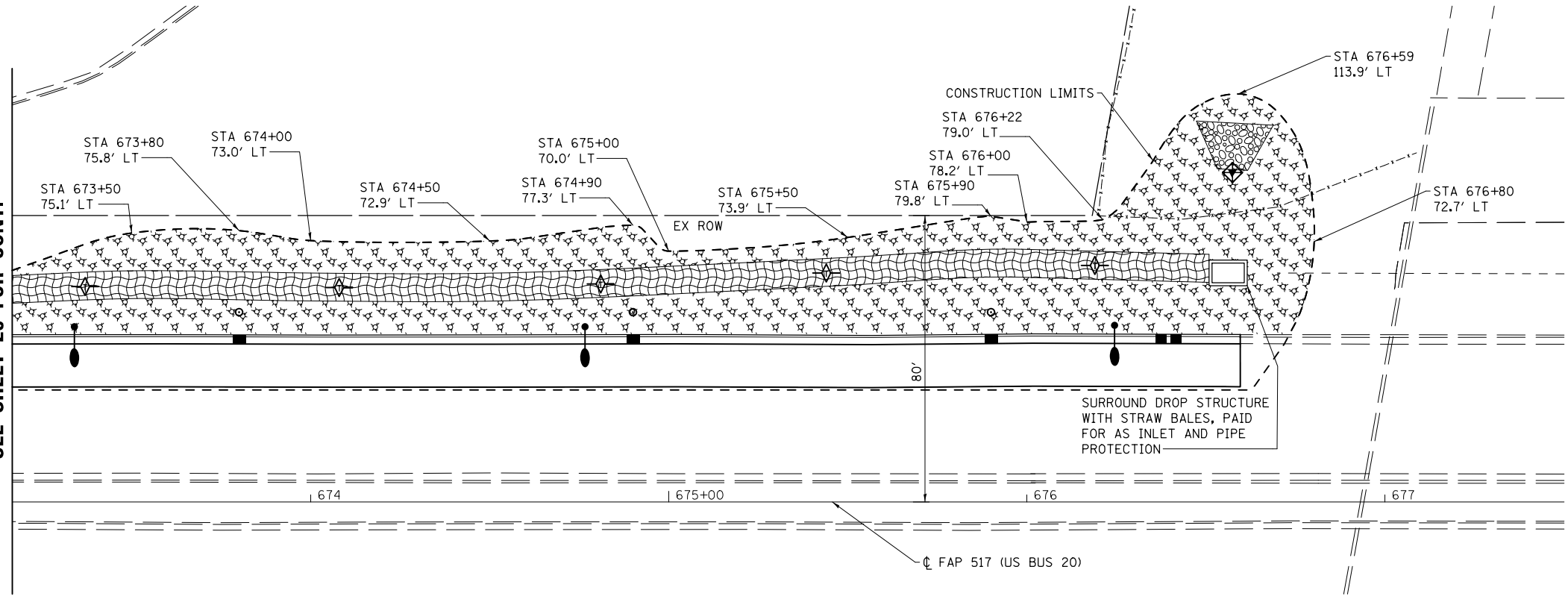
EROSION CONTROL		
SCALE: 1"=20'	SHEET NO. 1 OF 2 SHEETS	STA. 664+50 TO STA. 673+17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	28
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

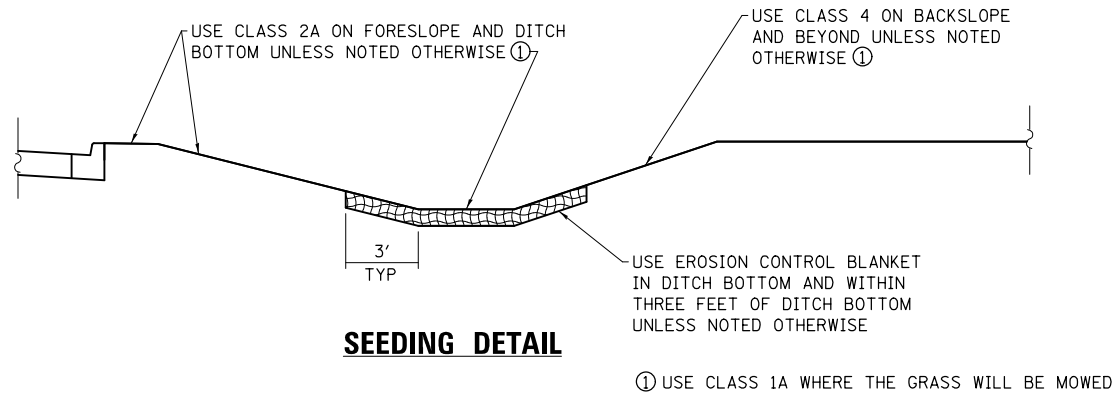
- LEGEND**
- ◇ TEMPORARY DITCH CHECK
 - ◇ INLET AND PIPE PROTECTION
 - STONE RIPRAP, CLASS A4
 - ▨ EROSION CONTROL BLANKET
 - MULCH, METHOD 3



MATCH LINE STA 673+17
SEE SHEET 28 FOR CONT.



EROSION CONTROL PLAN



SEEDING DETAIL

PRINT DRIVER = L:\05-68101\19
SCALE NAME = ESCA\98-101\19\19022.dwg



USER NAME = kjk
ESCA PROJECT NO. 1140.13
PLOT SCALE = 0.1667' / 1" = 17.
PLOT DATE = 3/14/2018 9:21:55 AM

DESIGNED - KJK
DRAWN - KJK
CHECKED - ELH
DATE - 09/17

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

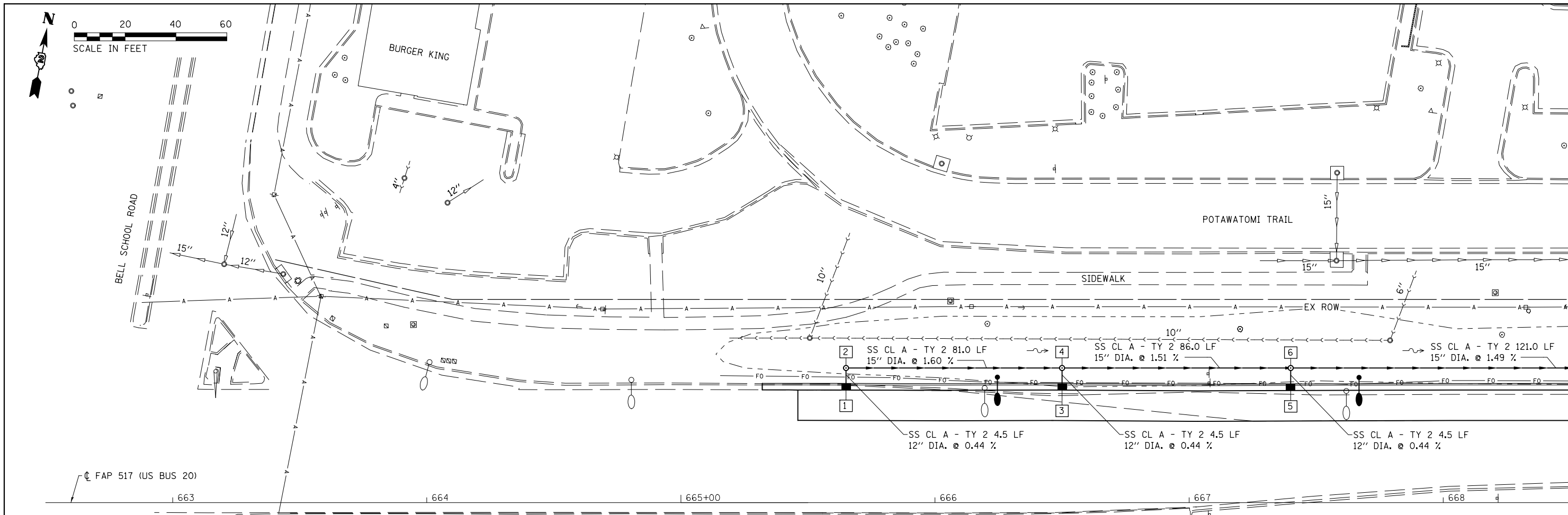
EROSION CONTROL

SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. 673+17 TO STA. 677+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	29
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

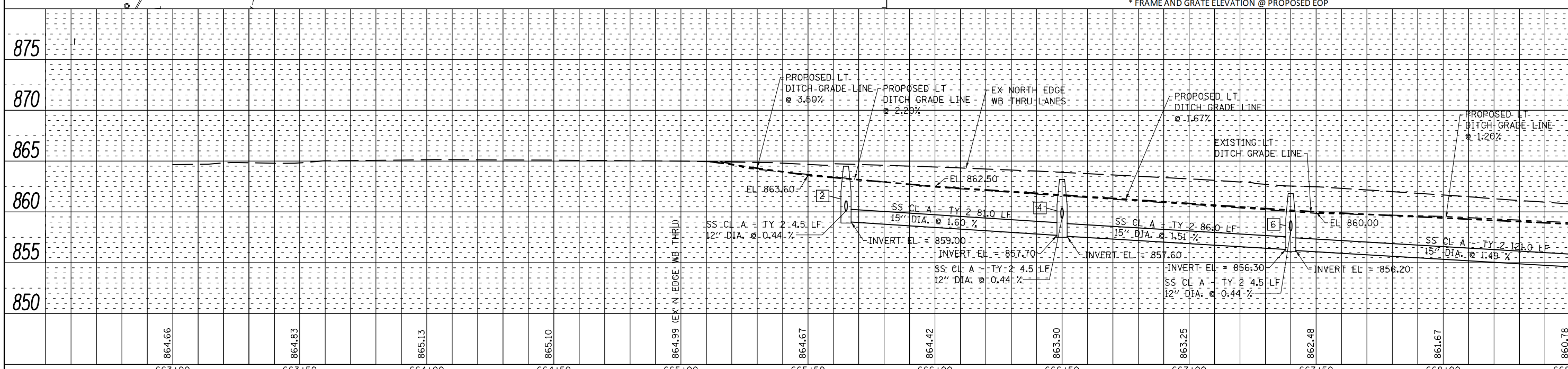
PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	FILED	
	NO. _____	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATION	
	CHPKD	
	NO. _____	



STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
1	665+65	44.0' LT	864.35*	860.11 N	INLETS, SPECIAL DISTRICT STD. 10.2
2	665+65	53.0' LT	864.50	859.00 E; 860.09 S	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL
3	666+50	44.0' LT	863.65*	859.41 N	INLETS, SPECIAL DISTRICT STD. 10.2
4	666+50	53.0' LT	863.20	859.39 S; 857.60 E; 857.70 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL
5	667+40	44.0' LT	862.38*	858.14 N	INLETS, SPECIAL DISTRICT STD. 10.2
6	667+40	53.0' LT	861.80	858.12 S; 856.20 E; 856.30 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL

* FRAME AND GRATE ELEVATION @ PROPOSED EOP



864.66	864.83	865.13	865.10	864.99 (EX N. EDGE - WB THRU)	864.67	864.42	863.90	863.25	862.48	861.67	860.78
663+00	663+50	664+00	664+50	665+00	665+50	666+00	666+50	667+00	667+50	668+00	668+50



USER NAME = kjk	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - SKM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018	DATE - 03/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US BUS 20 DRAINAGE
SCALE: AS SHOWN SHEET 1 OF 3 SHEETS STA. 663+00 TO STA. 668+50

F.A.P. RTE. 517	SECTION (2Y-1)W	COUNTY WINNEBAGO	TOTAL SHEETS 69	SHEET NO. 30
CONTRACT NO. 64L90				
ILLINOIS FED. AID PROJECT				

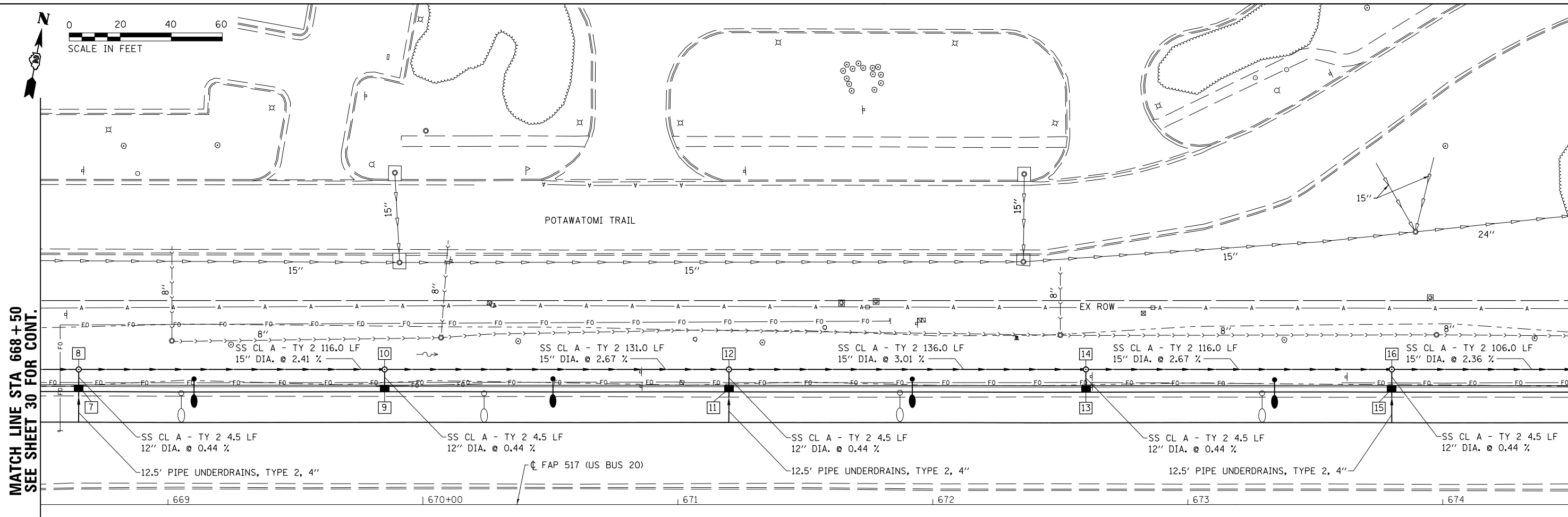
MATCH LINE STA 668+50
SEE SHEET 31 FOR CONT.

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
DESIGNED	
NO.	
NOTE BOOK	
FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
GRADES	
CHECKED	
STRUCTURE	
NOTATION	
CHPO	
NO.	
NOTE BOOK	
FILE NAME	

MATCH LINE STA 668+50
SEE SHEET 30 FOR CONT.

MATCH LINE STA 674+50
SEE SHEET 32 FOR CONT.

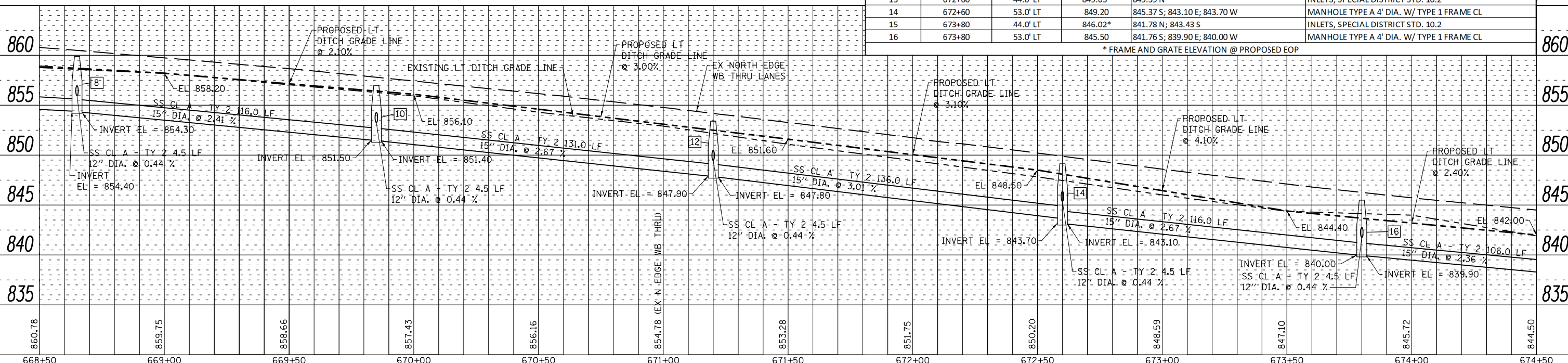


US BUS 20 - EAST STATE STREET

STRUCT NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
7	668+65	44.0' LT	860.22*	855.98 N; 857.63 S	INLETS, SPECIAL DISTRICT STD. 10.2
8	668+65	53.0' LT	859.70	855.96 S; 854.30 E; 854.40 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL
9	669+85	44.0' LT	857.55*	853.31 N	INLETS, SPECIAL DISTRICT STD. 10.2
10	669+85	53.0' LT	857.00	853.29 S; 851.40 E; 851.50 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL
11	671+20	44.0' LT	853.93*	849.69 N; 851.34 S	INLETS, SPECIAL DISTRICT STD. 10.2
12	671+20	53.0' LT	853.40	849.67 S; 847.80 E; 847.90 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL
13	672+60	44.0' LT	849.63*	845.39 N	INLETS, SPECIAL DISTRICT STD. 10.2
14	672+60	53.0' LT	849.20	845.37 S; 843.10 E; 843.70 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL
15	673+80	44.0' LT	846.02*	841.78 N; 843.43 S	INLETS, SPECIAL DISTRICT STD. 10.2
16	673+80	53.0' LT	845.50	841.76 S; 839.90 E; 840.00 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL

* FRAME AND GRATE ELEVATION @ PROPOSED EOP

NOTE: CONSTRUCT PIPE UNDERDRAINS, TYPE 2, 4" FOR AGGREGATE SUBGRADE AT STRUCTURES 7, 11, 15, & 21 PER DISTRICT STD. 88.4



USER NAME = kjk
ESCA PROJECT NO. 1140.13
PLOT SCALE = 40.0000' / in.
PLOT DATE = 3/14/2018

DESIGNED - ELH
DRAWN - SKM
CHECKED - ELH
DATE - 03/18

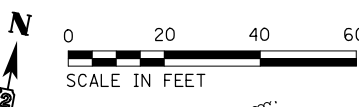
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US BUS 20 DRAINAGE

SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. 668+50 TO STA. 674+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	31
CONTRACT NO. 64L90				
ILLINOIS FED. AID PROJECT				

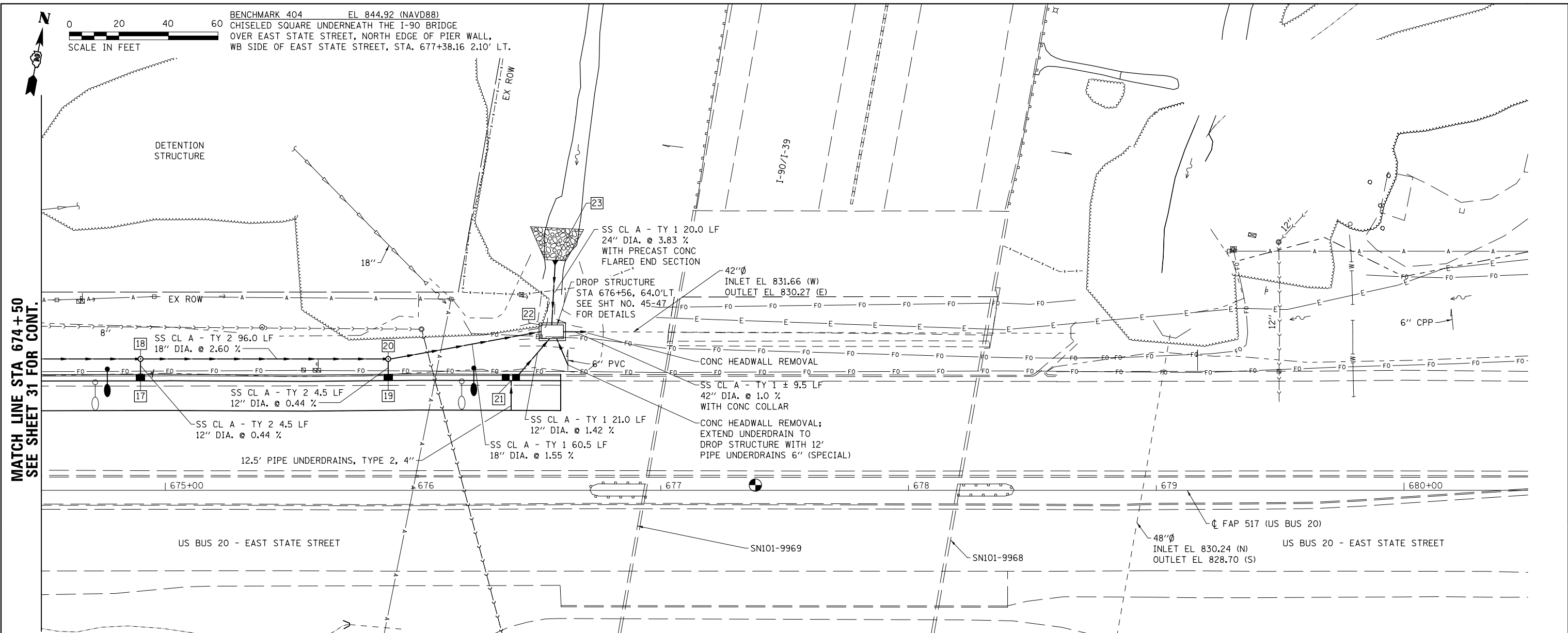


BENCHMARK 404 EL 844.92 (NAVD88)
 CHISELED SQUARE UNDERNEATH THE I-90 BRIDGE
 OVER EAST STATE STREET, NORTH EDGE OF PIER WALL,
 WB SIDE OF EAST STATE STREET, STA. 677+38.16 2.10' LT.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	APPROVED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	APPROVED	
	FILED	
	NO.	

MATCH LINE STA 674+50
SEE SHEET 31 FOR CONT.



STRICT NUMBER	STATION	OFFSET	RIME ELEV.	INVERT ELEV.	STRUCTURE TYPE
17	674+90	44.0' LT	843.34*	839.10 N	INLETS, SPECIAL DISTRICT STD. 10.2
18	674+90	53.0' LT	842.90	839.08 S; 836.80 E; 837.40 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL
19	675+90	44.0' LT	841.34*	837.10 N	INLETS, SPECIAL DISTRICT STD. 10.2
20	675+90	53.0' LT	840.80	837.08 S; 833.00 E; 834.30 W	MANHOLE TYPE A 4' DIA. W/ TYPE 1 FRAME CL
21	676+40	44.0' LT	840.44*	834.70 N; 837.85 S	DOUBLE INLET, SPECIAL DISTRICT STD. 12.2
22	676+56	64.0' LT	836.65	833.00 N; 831.76 E; 834.40 S; 832.06 W	CIP RC DROP STRUCTURE
23	676+59	92.8' LT	NA	834.00 AT END	PRECAST RC FLARED END SECTION 24"

* FRAME AND GRATE ELEVATION @ PROPOSED EOP

844.50	843.36	842.38	841.39	840.54	839.93	839.35 (EX N EDGE WB THRU)	838.86	838.55	838.32	838.17	838.08	838.22
674+50	675+00	675+50	676+00	676+50	677+00	677+50	678+00	678+50	679+00	679+50	680+00	680+50



USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 3/14/2018

DESIGNED - ELH
 DRAWN - SKM
 CHECKED - ELH
 DATE - 09/17

REVISED -
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 REVISED -

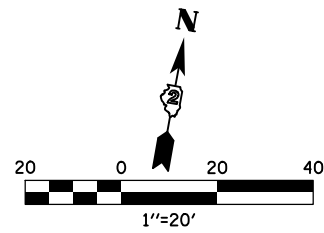
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

US BUS 20 DRAINAGE

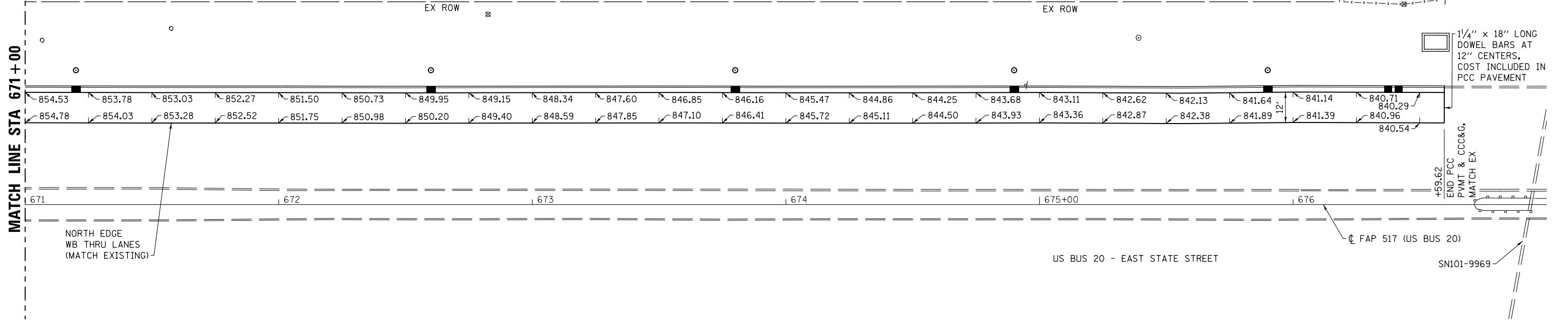
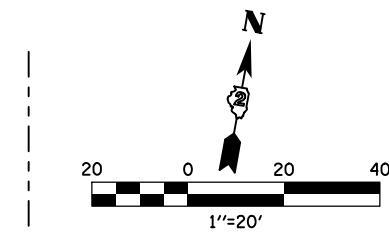
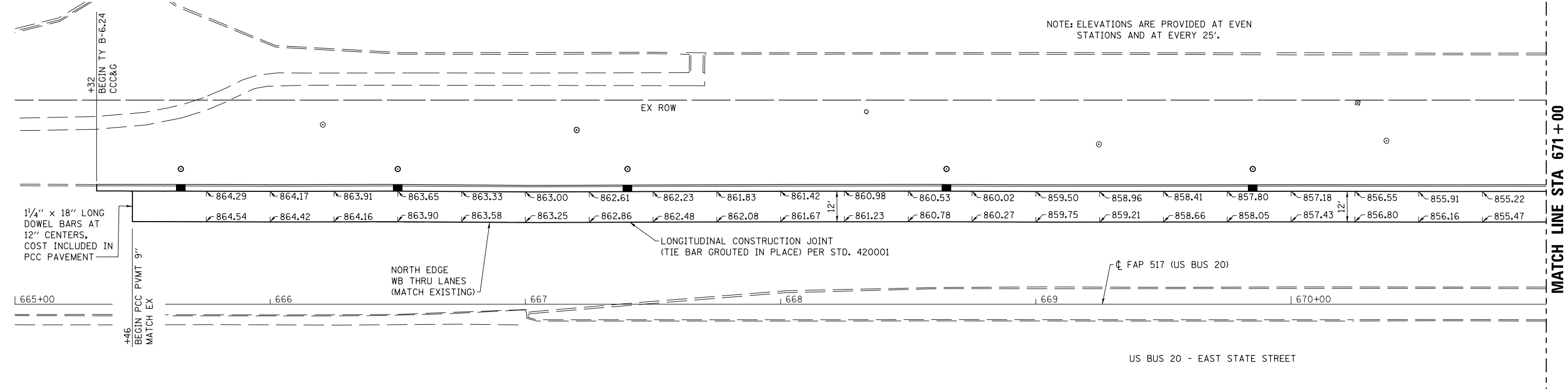
SCALE: AS SHOWN SHEET 3 OF 3 SHEETS STA. 674+50 TO STA. 680+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	32
CONTRACT NO. 64L90				

ILLINOIS FED. AID PROJECT



NOTE: ELEVATIONS ARE PROVIDED AT EVEN STATIONS AND AT EVERY 25'.



PRINT DRIVER = L:\05\Bentley\9
 USER NAME = PJLIT
 PLOT DATE = 3/14/2018 9:22:02 AM



USER NAME = kjk	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:22:02 AM	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US BUS 20
PAVEMENT ELEVATIONS**

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 665+00 TO STA. 677+00

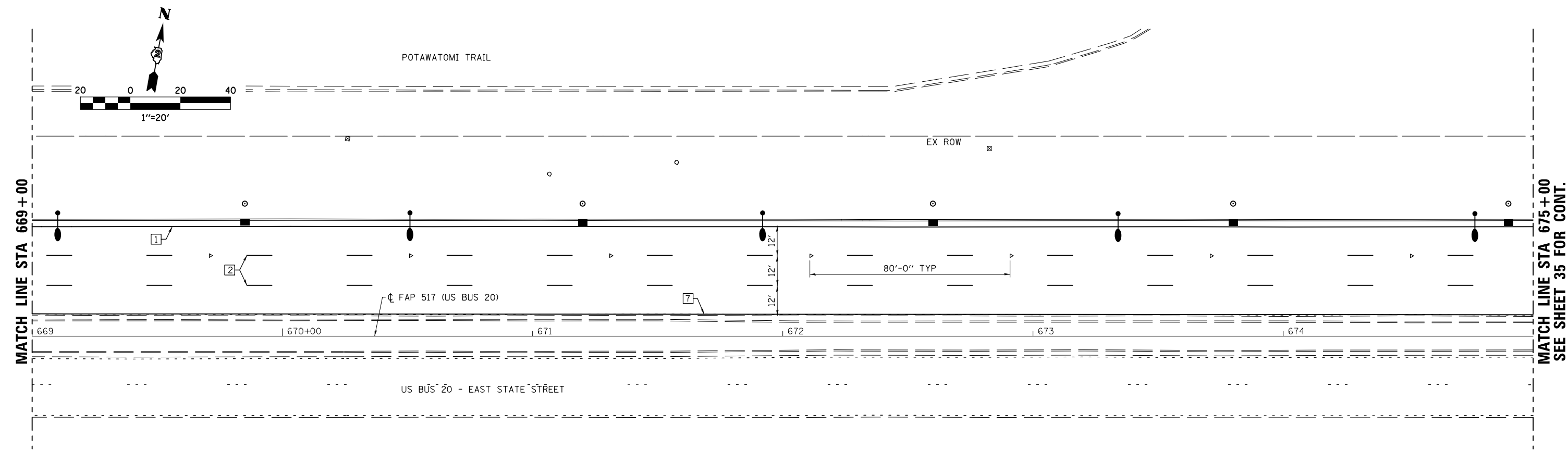
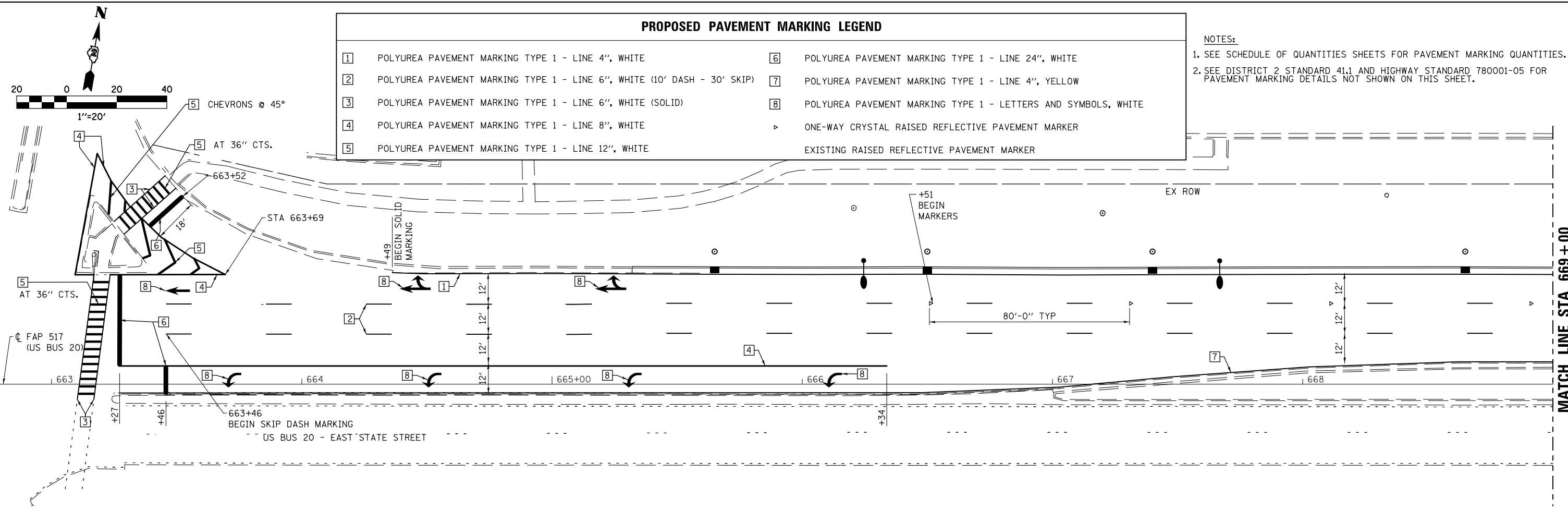
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	33
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROPOSED PAVEMENT MARKING LEGEND

- | | | | |
|---|---|---|---|
| 1 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", WHITE | 6 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24", WHITE |
| 2 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6", WHITE (10' DASH - 30' SKIP) | 7 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", YELLOW |
| 3 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6", WHITE (SOLID) | 8 | POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS, WHITE |
| 4 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 8", WHITE | ▶ | ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER |
| 5 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 12", WHITE | ◉ | EXISTING RAISED REFLECTIVE PAVEMENT MARKER |

NOTES:

- SEE SCHEDULE OF QUANTITIES SHEETS FOR PAVEMENT MARKING QUANTITIES.
- SEE DISTRICT 2 STANDARD 41.1 AND HIGHWAY STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN ON THIS SHEET.



PRINT DRIVER = L:\D-E\Bates\p9
 PLOT DATE = 3/14/2018 9:22:04 AM
 PLOT SCALE = 0.1667' / 1"



USER NAME = kjk
 ESCA PROJECT NO. 114013
 PLOT SCALE = 0.1667' / 1"
 PLOT DATE = 3/14/2018 9:22:04 AM

DESIGNED - SKM
 DRAWN - SKM
 CHECKED - ELH
 DATE - 03/18

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
AND MARKERS

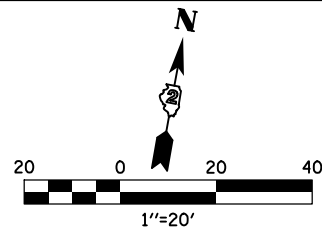
SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. 663+00 TO STA. 675+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	34
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

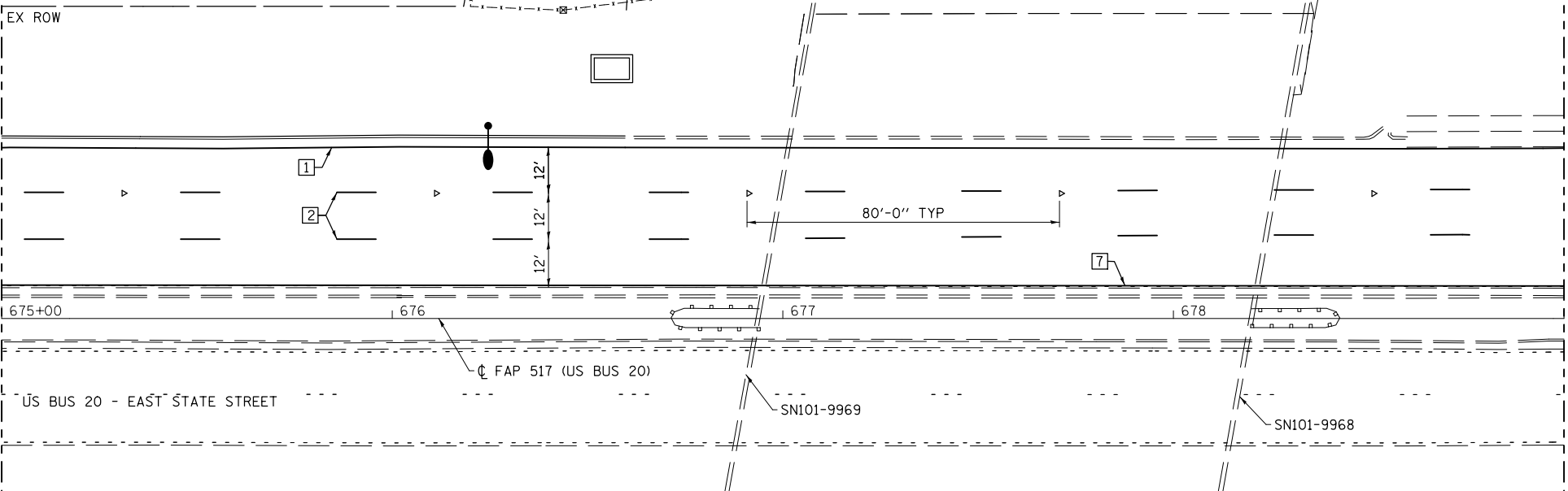
MATCH LINE STA 675+00
 SEE SHEET 35 FOR CONT.

PROPOSED PAVEMENT MARKING LEGEND

- | | | | |
|---|---|---|---|
| 1 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", WHITE | 6 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24", WHITE |
| 2 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6", WHITE (10' DASH - 30' SKIP) | 7 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", YELLOW |
| 3 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6", WHITE (SOLID) | 8 | POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS, WHITE |
| 4 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 8", WHITE | > | ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER |
| 5 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 12", WHITE | | EXISTING RAISED REFLECTIVE PAVEMENT MARKER |

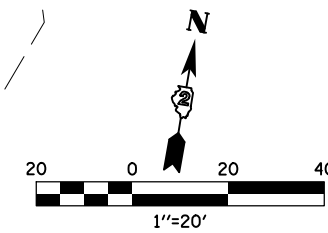
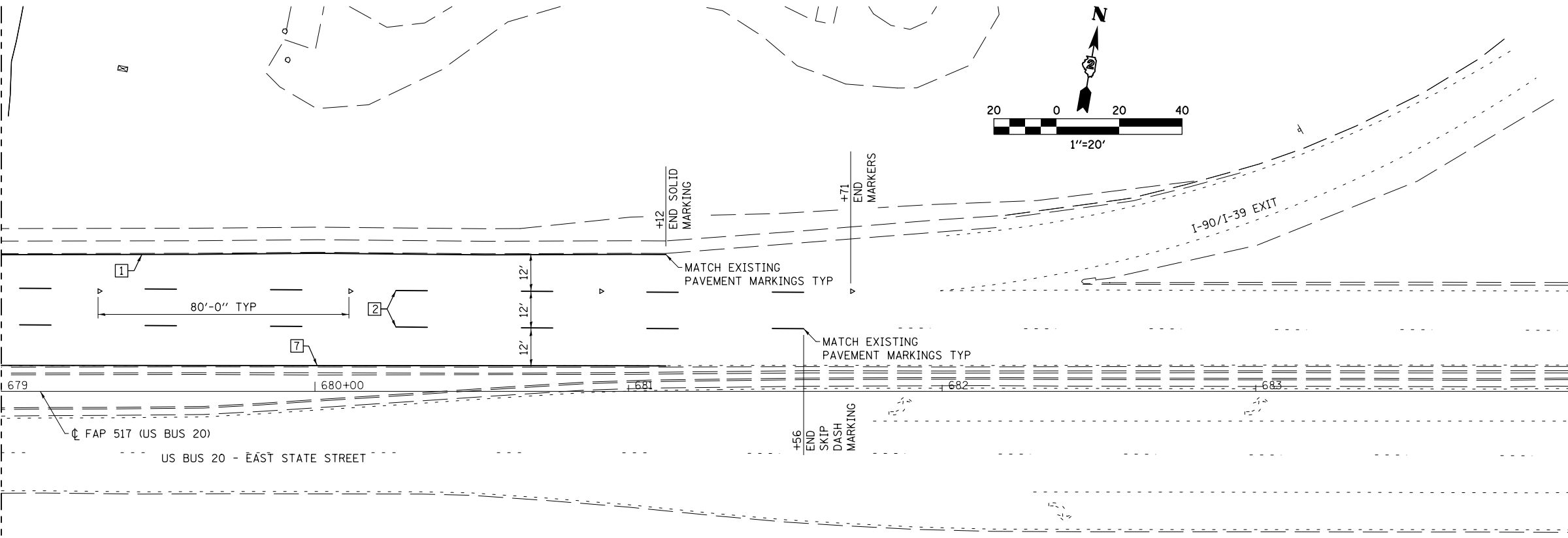


MATCH LINE STA 675+00
SEE SHEET 34 FOR CONT.



MATCH LINE STA 679+00

MATCH LINE STA 679+00



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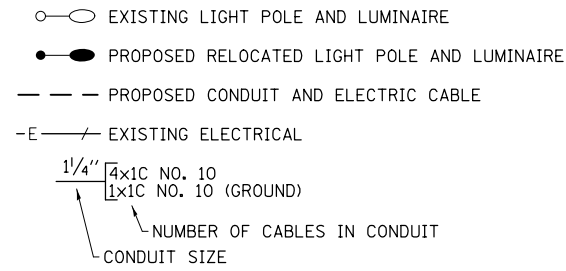
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING
AND MARKERS**

SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. 675+00 TO STA. 684+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	35
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

LIGHTING LEGEND



LIGHTING GENERAL NOTES

1. THE EXISTING LIGHTING SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH ARTICLES 801.11 AND 844.03 OF THE STANDARD SPECIFICATIONS.
2. DETAILS OF THE EXISTING LIGHTING SYSTEM ARE PROVIDED AND REFERENCED AS INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE DATA SHOWN THAT WILL AFFECT CONSTRUCTION OF THE PROPOSED WORK. VERIFICATION SHALL INCLUDE, BUT WILL NOT BE LIMITED TO, THE EXISTING LIGHTING CIRCUITS AND THE BOLT CIRCLES OF THE POLES THAT WILL BE REINSTALLED.
3. THE EXISTING CONDUIT AND ELECTRIC CABLES FOR THE EXISTING STREET LIGHT SYSTEM BETWEEN POLE NO. 34 AND POLE NO 42 SHALL BE REMOVED IF THEY INTERFERE WITH THE PROPOSED CONSTRUCTION. EXISTING CONDUIT AND CABLE THAT DOESN'T INTERFERE WITH THE PROPOSED CONSTRUCTION MAY BE ABANDONED IN PLACE. THE REMOVAL OF EXISTING ELECTRIC CABLE AND CONDUIT WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICES OF THE CONTRACT.
4. THE POLE NUMBERS SHOWN ON THE PLANS SHOULD MATCH THE EXISTING LIGHTING SYSTEM. THE CIRCUIT NUMBER SHOWN FOR EACH POLE SHOULD ALSO MATCH THE EXISTING LIGHTING SYSTEM. THE EXISTING CIRCUIT NO. 3 AND CIRCUIT NO. 4 WIRING SCHEMATICS ARE PROVIDED AND THE CONTRACTOR SHALL VERIFY THE EXISTING LUMINAIRES TO BE RELOCATED ARE WIRED ACCORDING TO THE INFORMATION GIVEN. ANY DISCREPANCIES SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO CONNECTING THE RELOCATED LUMINAIRES TO THE EXISTING SYSTEM.
5. PRIOR TO THE INSTALLATION OF NEW CABLE DUCT, CONDUITS, JUNCTION BOXES, LIGHT STANDARD FOUNDATIONS AND APPURTENANCES THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING LIGHTING CONDUITS, CABLES AND UNDERGROUND UTILITIES.
6. CONDUIT AND CABLE DUCT SHALL BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDERDRAINS.

SUMMARY OF ROADWAY LIGHTING QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	1192
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	6200
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	32
84200804	REMOVAL OF POLE FOUNDATION	EACH	8
X8360310	LIGHT POLE FOUNDATION, 30" DIAMETER, SPECIAL	FOOT	76
X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE	EACH	8

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE STATE ST.

GIVEN CONDITIONS

ROADWAY DATA:	PAVEMENT WIDTHS	60 FT
	NUMBER OF LANES	4
	MEDIAN WIDTH	XX-XX FT
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	0.07
LIGHT POLE DATA:	MOUNTING HEIGHT	40 FT
	MAST ARM LENGTH	15
	POLE SET-BACK FROM EDGE OF PAVEMENT	VARIES
LUMINAIRE DATA:	LAMP TYPE	130W LED
	LAMP LUMENS	14000
	IES VERTICAL DISTRIBUTION	SHORT
	IES CONTROL OF DISTRIBUTION	CUTOFF
	IES LATERAL DISTRIBUTION	R3
	TOTAL LIGHT LOSS FACTOR	0.765
LAYOUT DATA:	SPACING	140 FT
	CONFIGURATION	35 FIXTURES, 13 ON EACH SIDE OF ROAD IN A LINE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	11 FT

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.

PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.

ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (EAVE) FC	
	UNIFORMITY RATIO, (EAVE/EMIN)	SEE CALCULATION SUMMARY
LUMINANCE:	AVERAGE LUMINANCE: (LAVE) cd/m ²	SEE CALCULATION SUMMARY
	UNIFORMITY RATIOS: (LAVE/LMIN)	SEE CALCULATION SUMMARY
	(LMAX/LMIN)	SEE CALCULATION SUMMARY
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	0.035

EXISTING LUMINAIRE PERFORMANCE TABLE FOR INFORMATION ONLY

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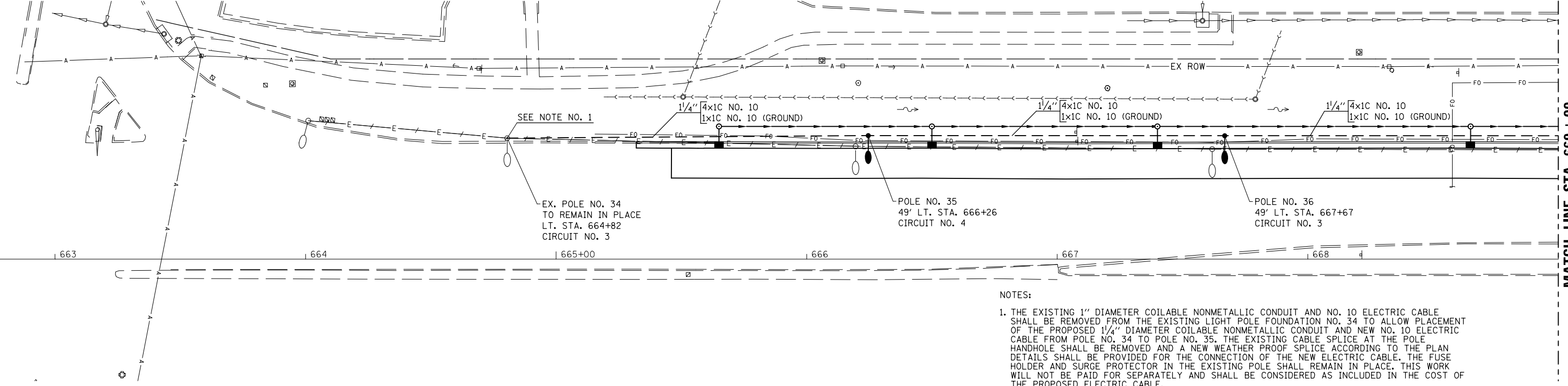
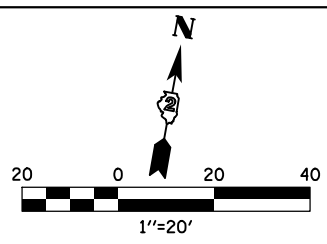
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

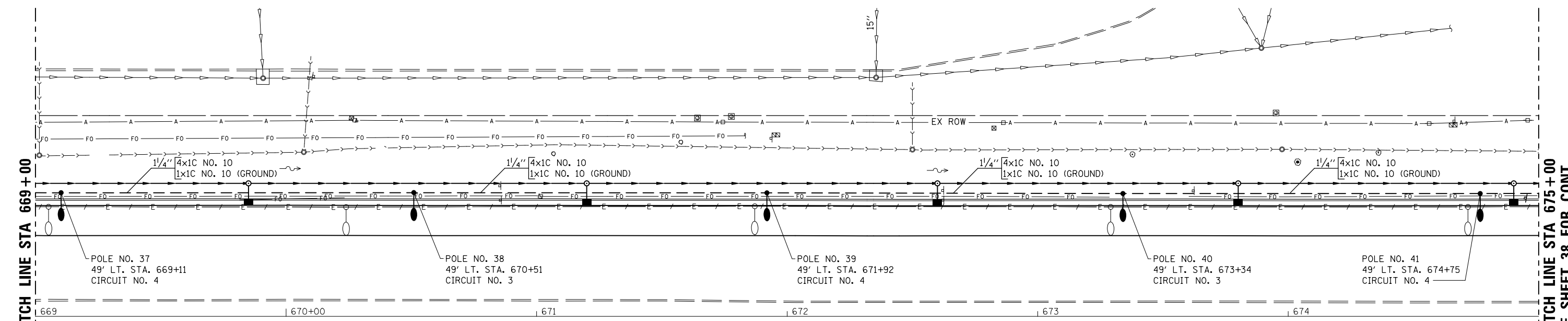
US BUS 20
LIGHTING DETAILS

SCALE: NA SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	36
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	



NOTES:
 1. THE EXISTING 1" DIAMETER COILABLE NONMETALLIC CONDUIT AND NO. 10 ELECTRIC CABLE SHALL BE REMOVED FROM THE EXISTING LIGHT POLE FOUNDATION NO. 34 TO ALLOW PLACEMENT OF THE PROPOSED 1/4" DIAMETER COILABLE NONMETALLIC CONDUIT AND NEW NO. 10 ELECTRIC CABLE FROM POLE NO. 34 TO POLE NO. 35. THE EXISTING CABLE SPLICE AT THE POLE HANDHOLE SHALL BE REMOVED AND A NEW WEATHER PROOF SPLICE ACCORDING TO THE PLAN DETAILS SHALL BE PROVIDED FOR THE CONNECTION OF THE NEW ELECTRIC CABLE. THE FUSE HOLDER AND SURGE PROTECTOR IN THE EXISTING POLE SHALL REMAIN IN PLACE. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PROPOSED ELECTRIC CABLE.



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 ESCA PROJECT NO. 114013
 ESCA CONSULTANTS, INC.
 114013.dwg



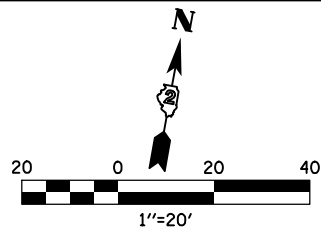
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

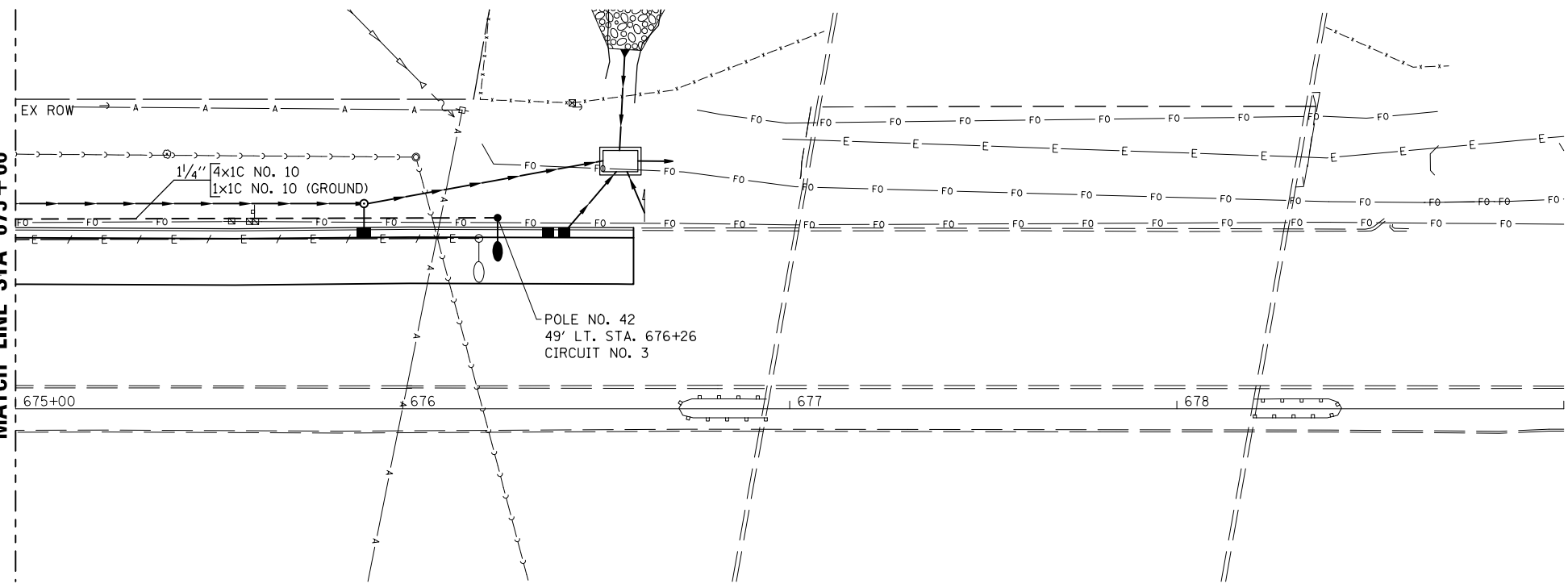
US BUS 20
LIGHTING DETAILS

SCALE: 1"=20' SHEET NO. 2 OF 3 SHEETS STA. 663+00 TO STA. 675+00

F.A.P. RTE. 517	SECTION (2Y-1)W	COUNTY WINNEBAGO	TOTAL SHEETS 69	SHEET NO. 37
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 64L90



SEE SHEET 37 FOR CONT.
MATCH LINE STA 675+00



PRINT DRIVER = L:\0-6-2018\149
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 PLOT DATE = 3/14/2018 9:22:23 AM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

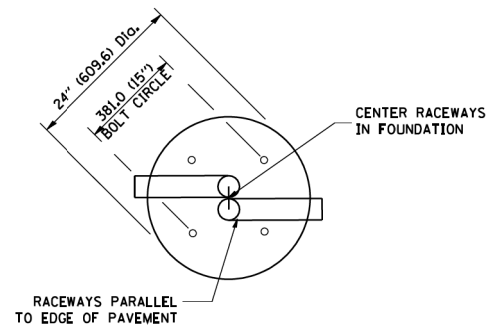
**US BUS 20
LIGHTING DETAILS**

SCALE: 1"=20' SHEET NO. 3 OF 3 SHEETS STA. 675+00 TO STA. 684+00

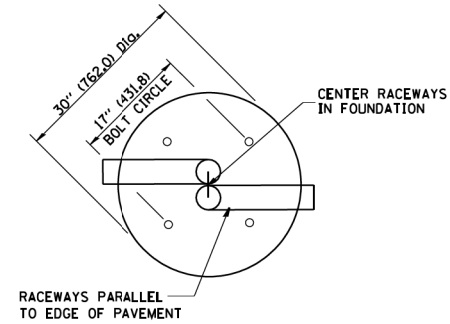
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O _u = 0.75 TON/SO.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O _u = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



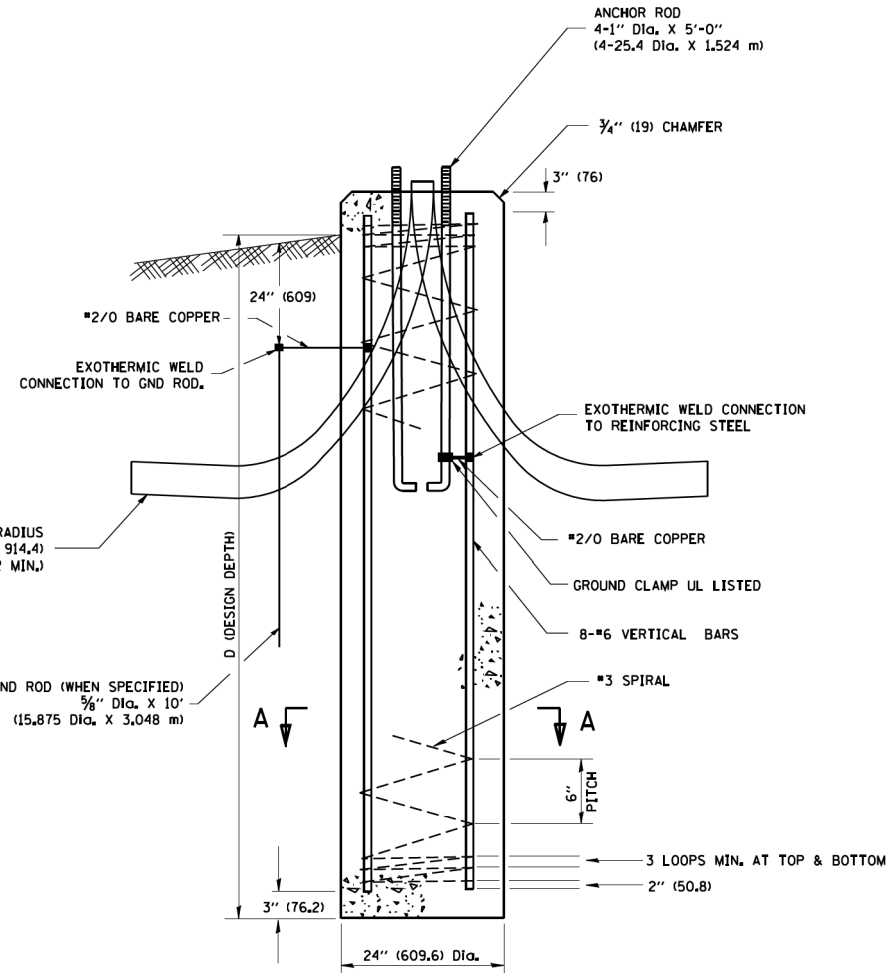
TOP VIEW



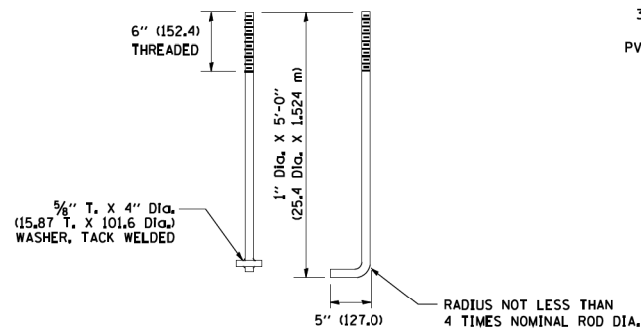
TOP VIEW

NOTES

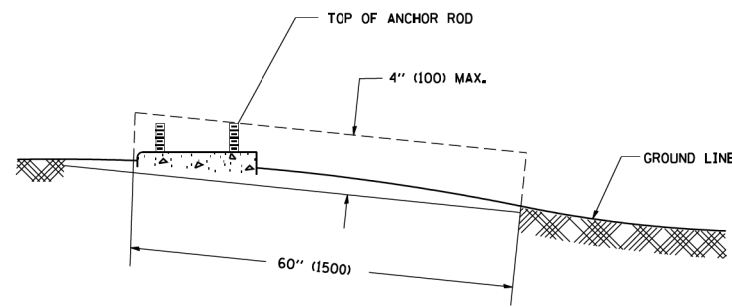
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM (6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



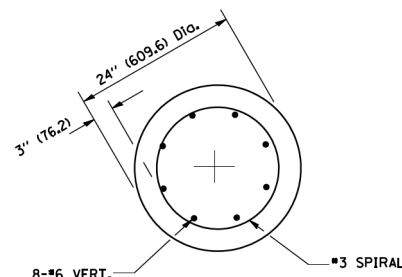
FOUNDATION DETAIL



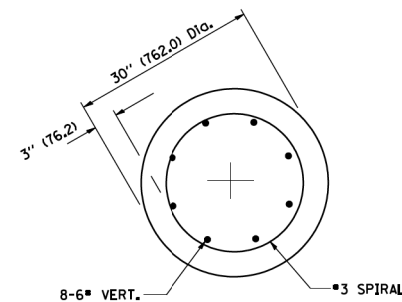
ANCHOR ROD DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

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SCALE = 1/8" = 1'-0"



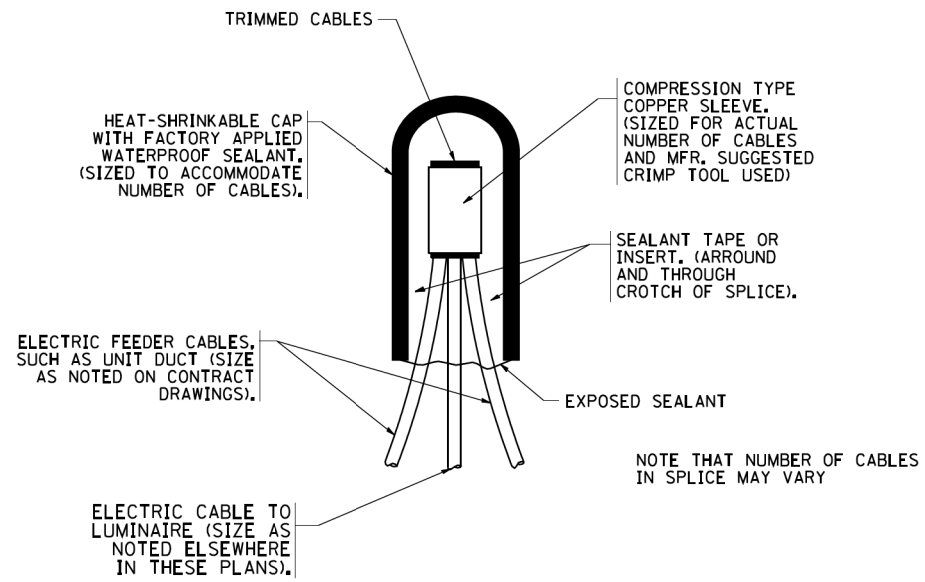
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PLOT DATE = 3/14/2018 9:22:25 AM	DATE - 07/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47' 12" (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

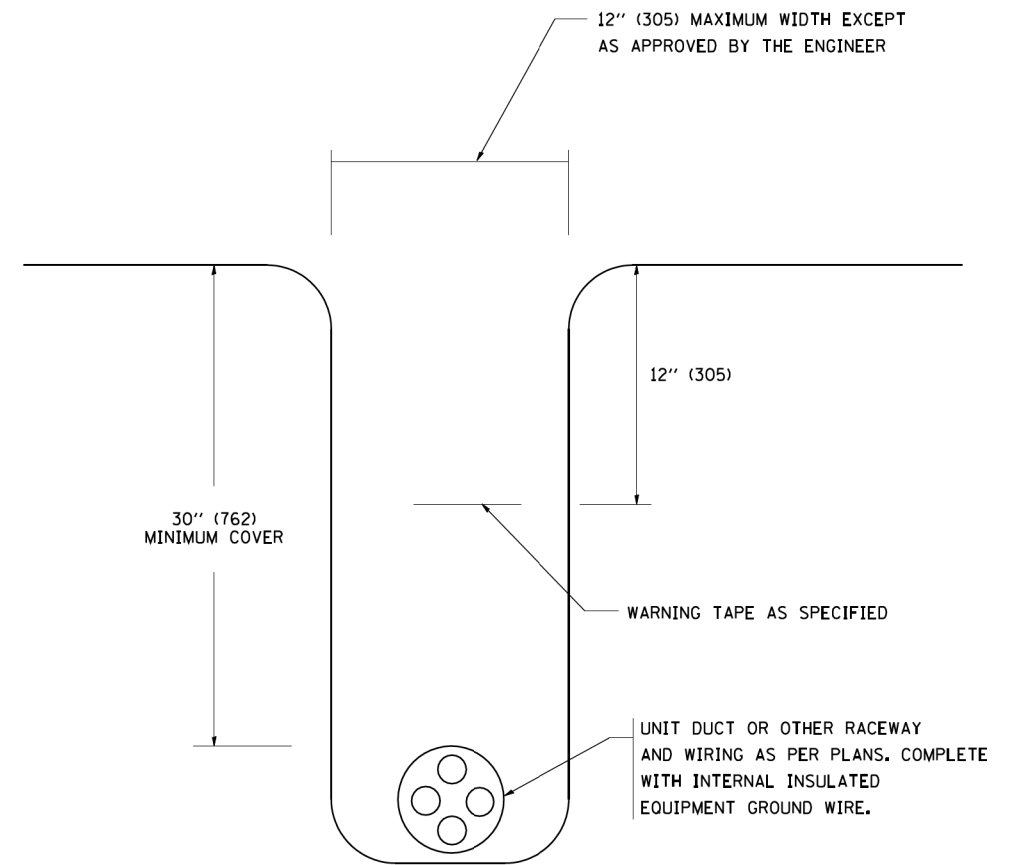
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	39
DISTRICT 1 DETAIL BE-301		CONTRACT NO. 64L90		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPICAL SPLICE DETAIL

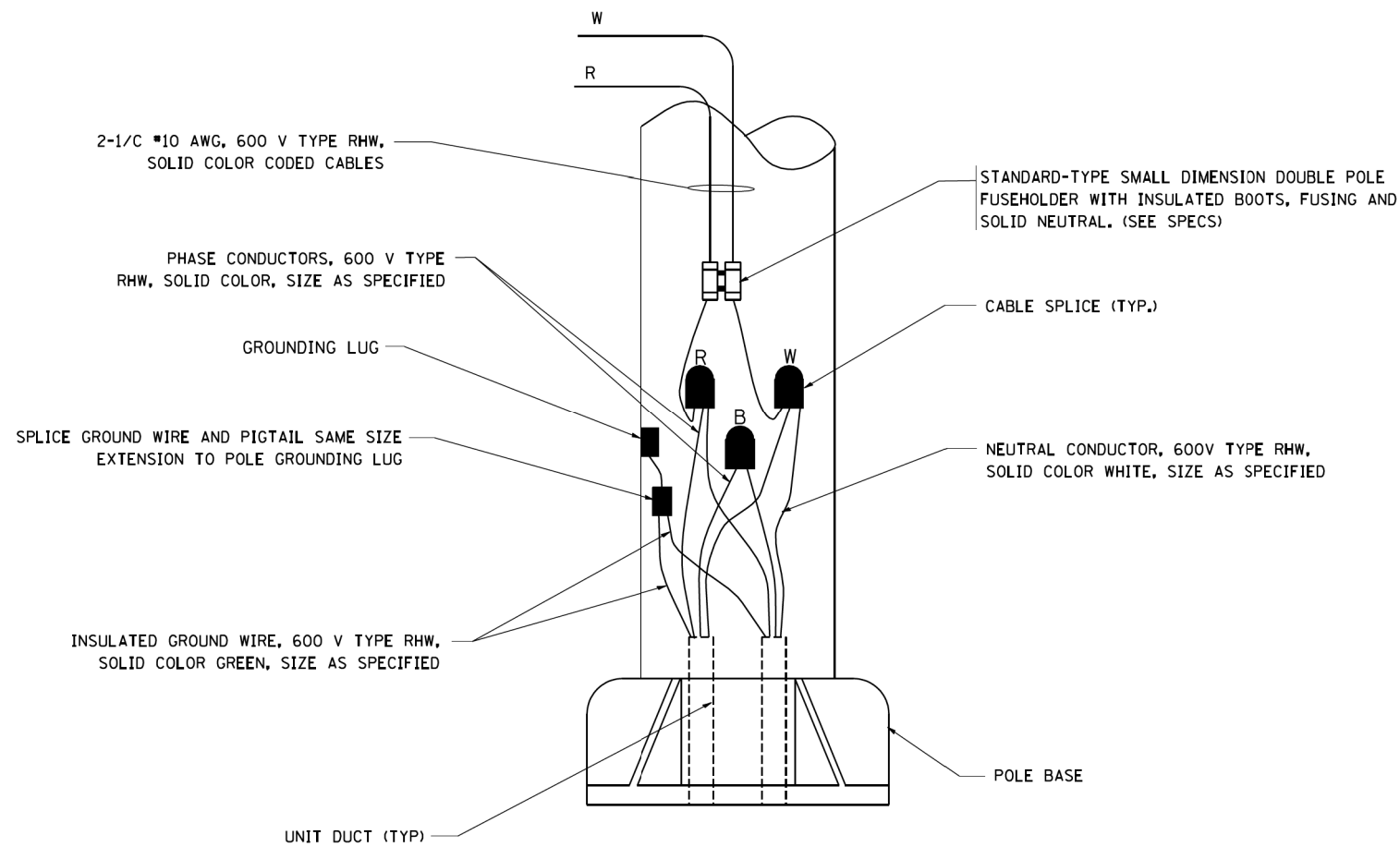
N.T.S.

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

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 PLOT DATE = 3/14/2018 9:22:38 AM
 PLOT SCALE = 0.1667 / 1" = 1'-0"



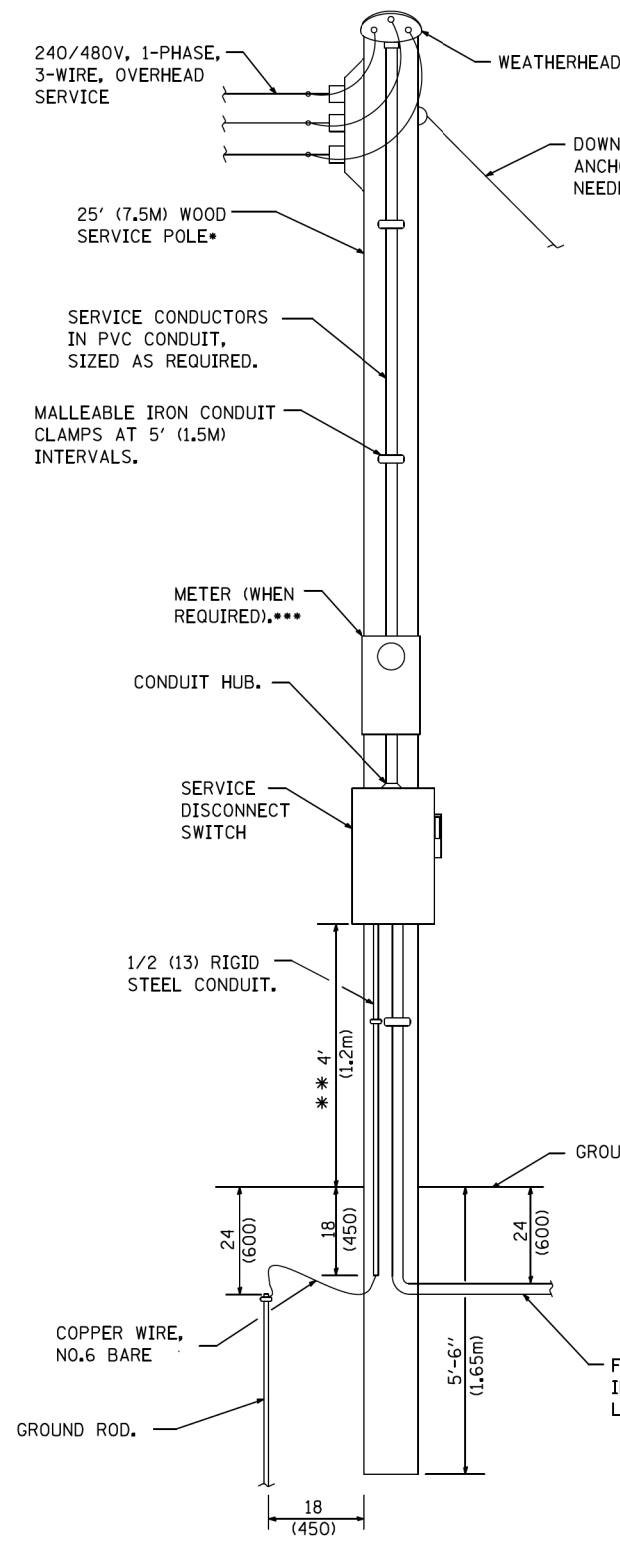
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PLOT DATE = 3/14/2018 9:22:38 AM	DATE - 07/17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS
 SHEET A**

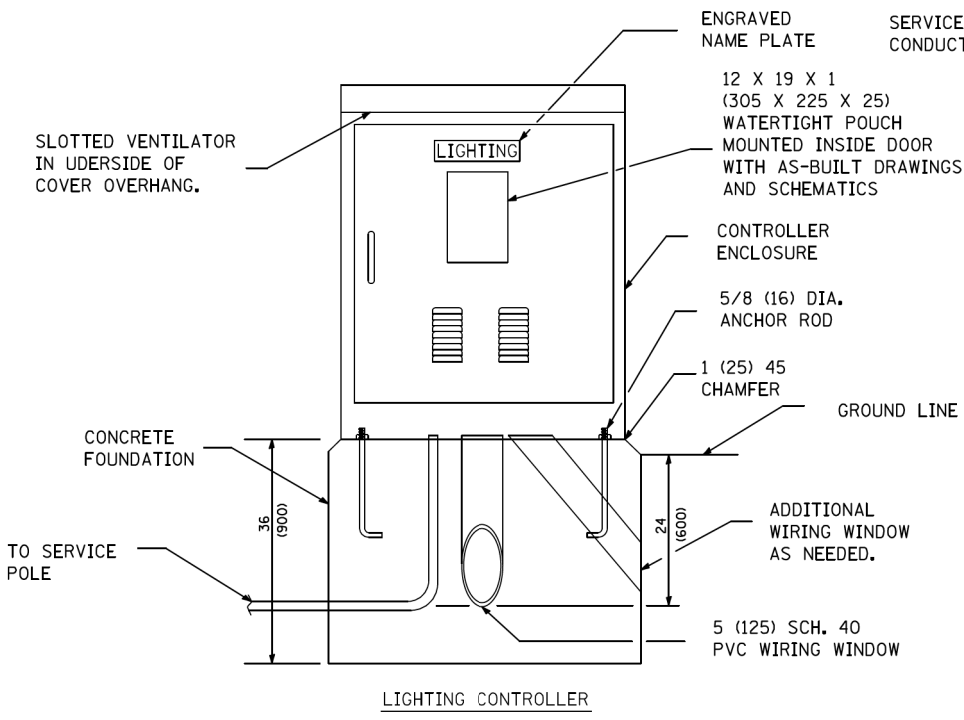
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	40
DISTRICT 1 DETAIL BE-702			CONTRACT NO. 64L90	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

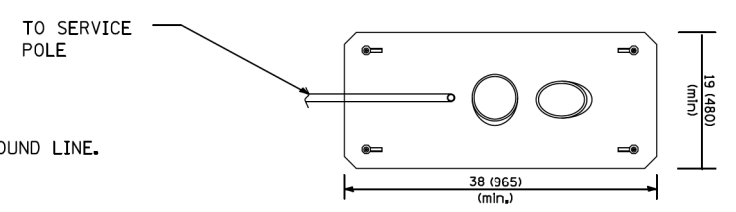


ELECTRIC SERVICE INSTALLATION

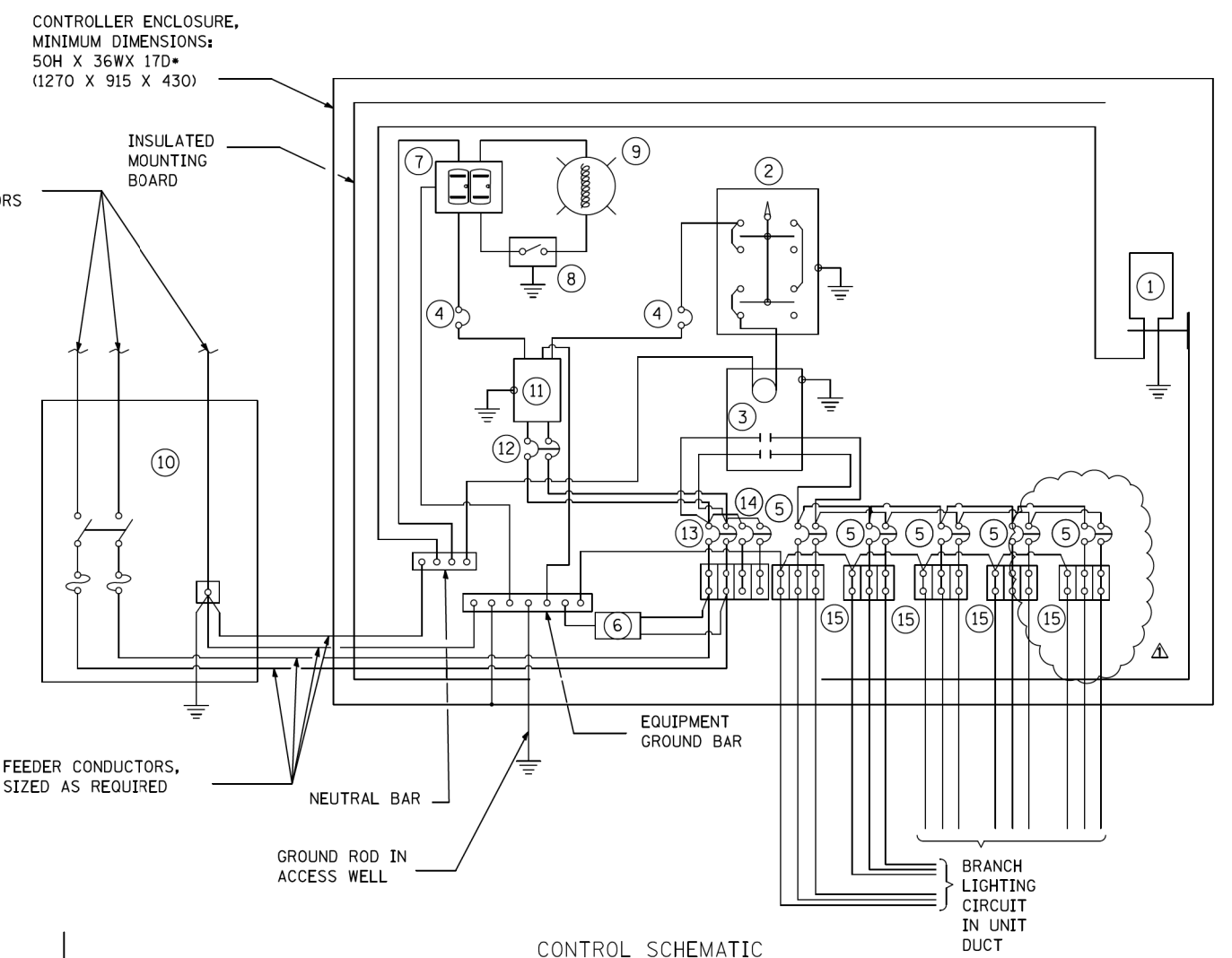
- SIZE LARGER AS NEEDED.
- OR AS DIRECTED BY UTILITY COMPANY.
- WHEN COLD SEQUENCING IS REQUIRED, PROVIDE A METER DISCONNECT SWITCH AS DIRECTED BY UTILITY COMPANY.



LIGHTING CONTROLLER



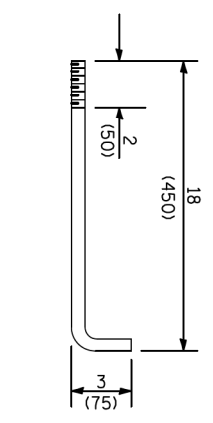
FOUNDATION (PLAN)
(WORK PAD NOT SHOWN)



CONTROL SCHEMATIC

- | | |
|---|---|
| ① PHOTOCELL WITH INTEGRAL SURGE ARRESTER. | ⑧ SINGLE-POLE, SINGLE-THROW SWITCH. |
| ② HAND-OFF-AUTO SELECTOR SWITCH. | ⑨ INCANDESCENT LUMINAIRE, ENCLOSED AND GASKETTED WITH 100 WATT LAMP. |
| ③ 100 AMP, ELECTRICALLY HELD CONTACTOR. | ⑩ SERVICE DISCONNECT SWITCH -2-POLES, 3-WIRE, 100AMP, FUSED AT 100 AMP, SOLID NEUTRAL IN NEMA 4X ENCLOSURE HAVING LOCKABLE EXTERNAL HANDLE. |
| ④ 15AMP, 1-POLE CIRCUIT BREAKER. | ⑪ TRANSFORMER-1KVA, 480V PRIMARY, 120V/240V SECONDARY, SINGLE-PHASE, 60HZ. |
| ⑤ 20 AMP, 2-POLE CIRCUIT BREAKER (TWO SPARES REQUIRED BUT NOT SHOWN). | ⑫ 15 AMP, 2-POLE CIRCUIT BREAKER. |
| ⑥ SURGE ARRESTER. | ⑬ 100 AMP, 2-POLE CIRCUIT BREAKER. |
| ⑦ GFCI DUPLEX RECEPTACLE. | ⑭ 30 AMP, 2-POLE CIRCUIT BREAKER. |
| | ⑮ ADJUST THE TERMINAL STRIPS ON THE LOAD SIDE OF THE BREAKERS TO ACCOMMODATE THE ACTUAL NUMBER OF WIRES CONNECTED, SEE SHEET 120, 121, & 126. |

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



ANCHOR ROD
DETAIL

REVISED - 9/2/2015

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS - FOR INFORMATION ONLY

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	41
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

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 ESCA PROJECT NO. 1140_13
 DESIGNED - JMS
 DRAWN - SKM
 CHECKED - JMS
 DATE - 07/17
 REVISED -
 REVISED -
 REVISED -
 REVISED -

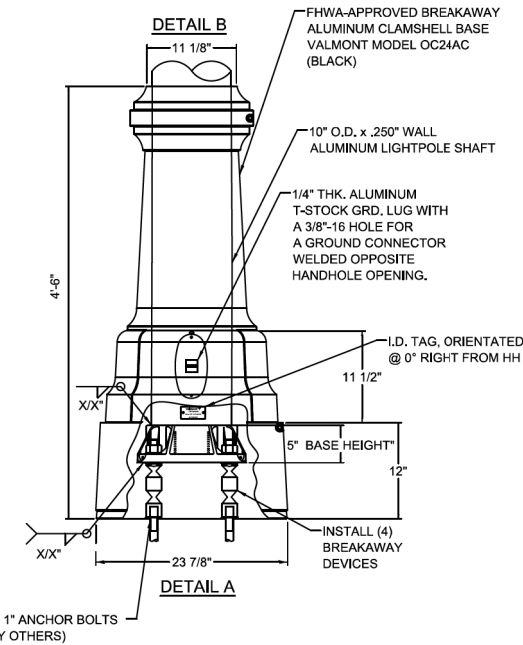
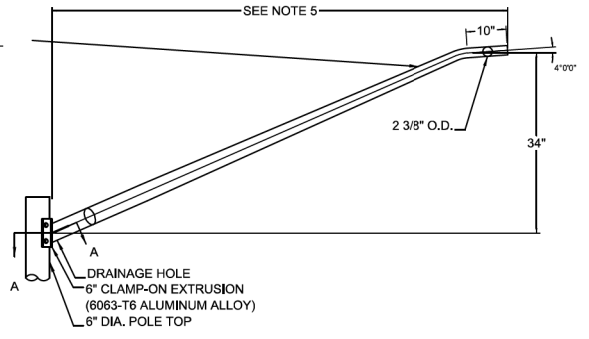


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 ESCA PROJECT NO. 1140_13
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 PLOT DATE = 3/14/2018 9:22:51 AM

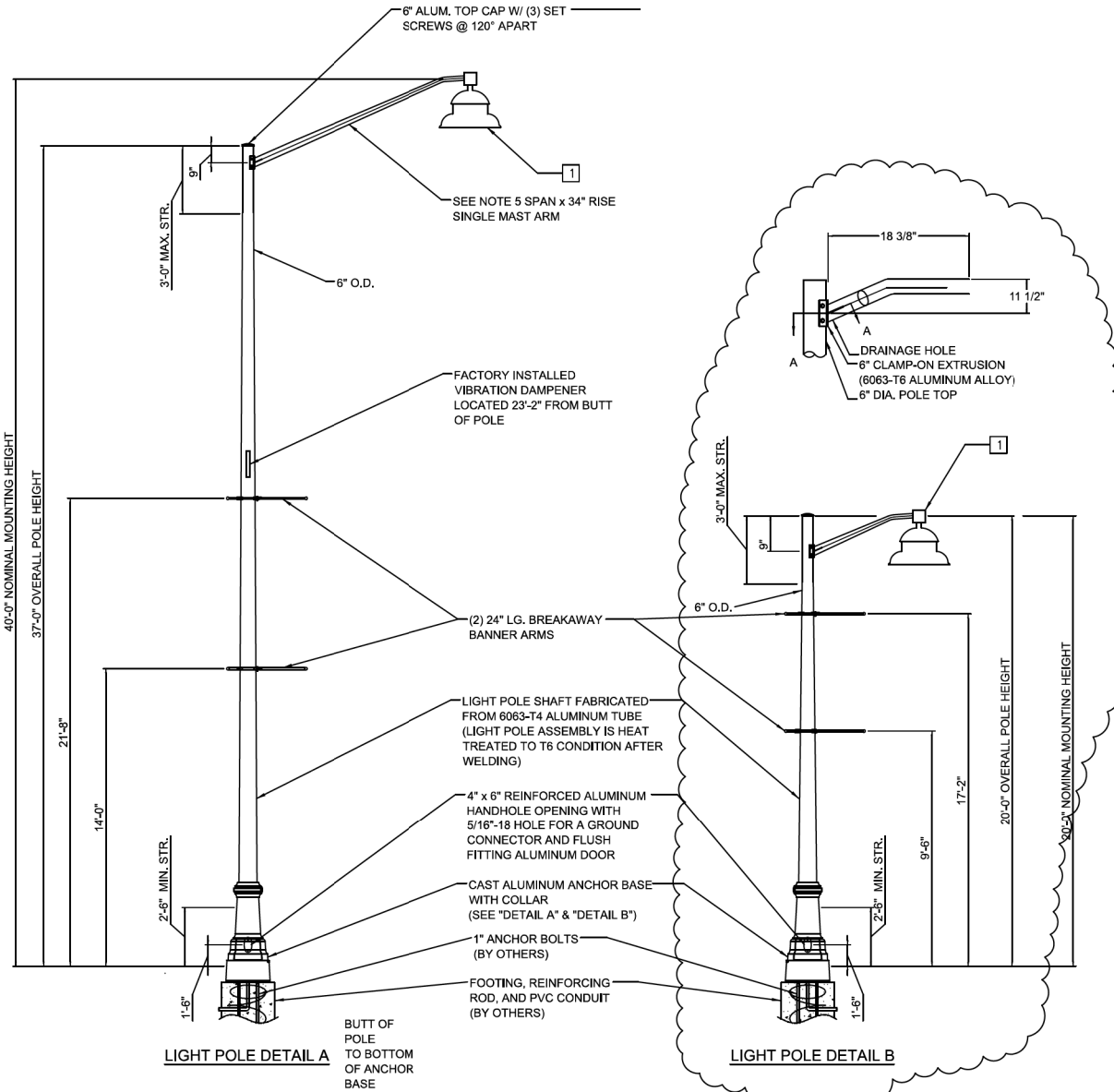
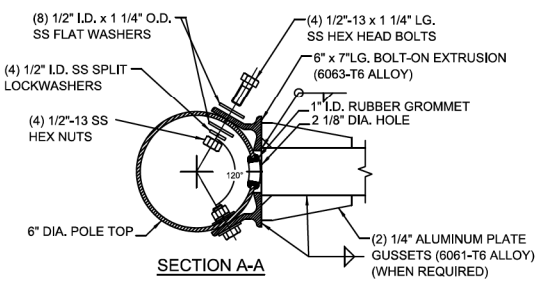
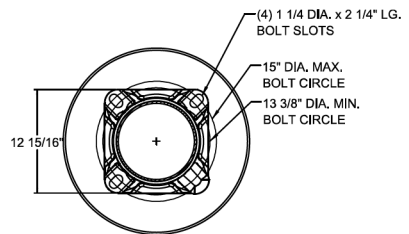
DESIGNED - JMS
 DRAWN - SKM
 CHECKED - JMS
 DATE - 07/17
 REVISED -
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KEYED NOTE:
 1 PAID FOR AS LUMINAIRE, LED, HORIZONTAL MOUNT, LARGE.

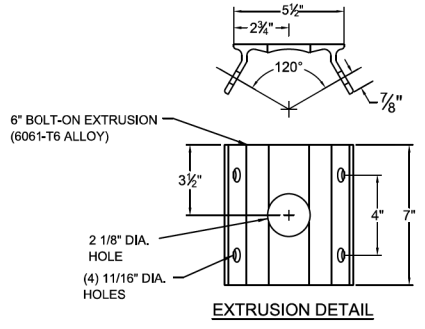
ARM MADE FROM 3 1/2" O.D. x .125" WALL
 (.188" WALL WHEN REQUIRED)
 ALUMINUM TUBE (6063-T6 ALLOY)
 TAPERED TO 2 3/8" O.D. AND
 FLATTENED TO 4 11/32" x 2 3/8"
 ELLIPTICAL CROSS SECTION
 SMOOTH POWDER BLACK FINISH
 TO MATCH THE LIGHT POLE



- NOTES:
- UNITS SHALL BE MANUFACTURED ACCORDING TO AASHTO "STANDARD SPECIFICATIOINS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" CURRENT AT THE TIME THE PROJECT IS ADVERTISED. LIGHT POLES SHALL BE DESIGNED FOR 90 MPH WIND VELOCITY AND A MINIMUM DESIGN LIFE OF 50 YEARS.
 - POLES SHALL BE DESIGNED TO WITHSTAND LOADING OF 75 LB. LUMINAIRE WITH AN EPA OF 1.6 SQ. FT. INCLUDING ALL ATTACHMENTS.



- NOTES:
- REFER TO ROADWAY LIGHTING DETAIL LIGHT POLE FOUNDATION DETAIL.
 - REFER TO ROADWAY LIGHTING DETAIL POLE WIRING DETAIL.
 - REFER TO ROADWAY LIGHTING DETAIL CONDUIT TRENCH - PHOTOCELL MOUNTING.
 - REFER TO DETAIL A ON THIS SHEET.
 - SPAN LENGTH SHALL BE ADJUSTED SO THE LIGHT FIXTURES ARE ALIGNED EVENLY DOWN THE ROAD. SEE SPECIAL PROVISIONS.
 - LIGHT POLE DETAIL B SHALL USE THE 18 3/8" SPAN LENGTH.



REVISED - 9/2/2015

FOR INFORMATION ONLY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS - FOR INFORMATION ONLY

SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	42
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

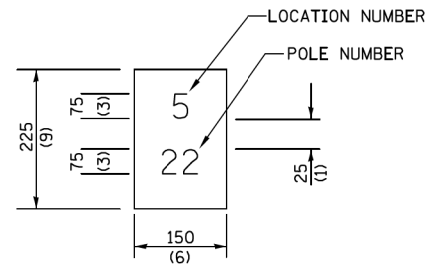
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 USER NAME = kjk
 USER PROJECT NO. = 114013



USER NAME = kjk	DESIGNED - JMS	REVISED -
ESCA PROJECT NO. 114013	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667 / 1" = 1'-0"	CHECKED - JMS	REVISED -
PLOT DATE = 3/14/2018 9:23:04 AM	DATE - 07/17	REVISED -

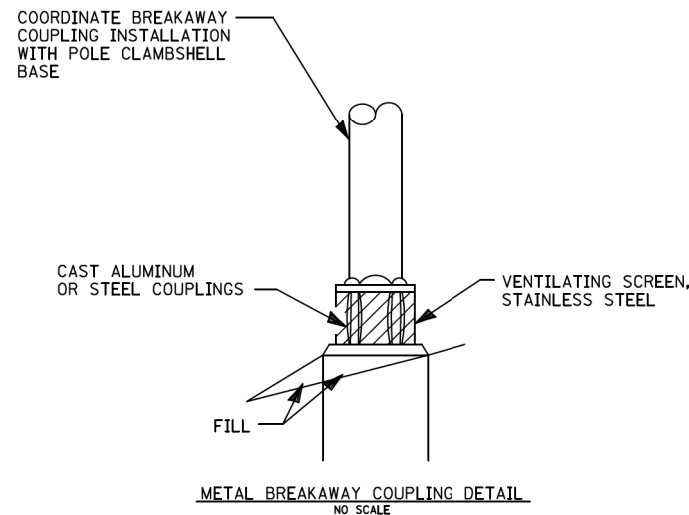
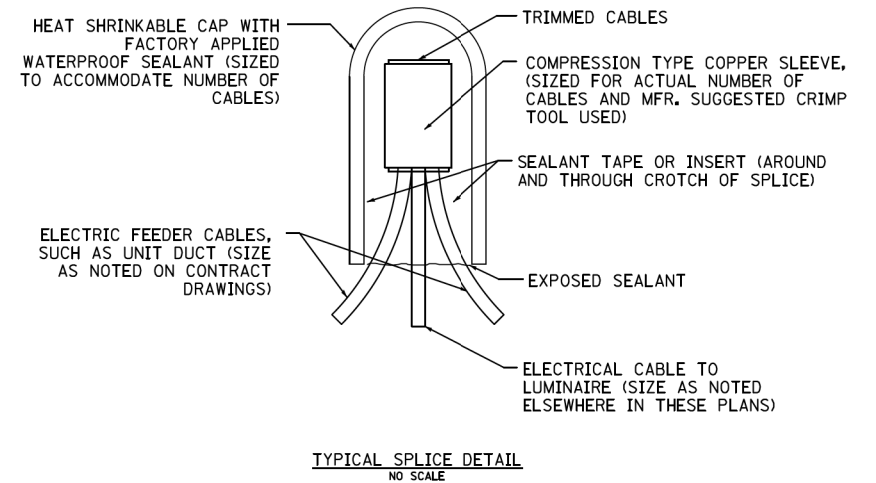
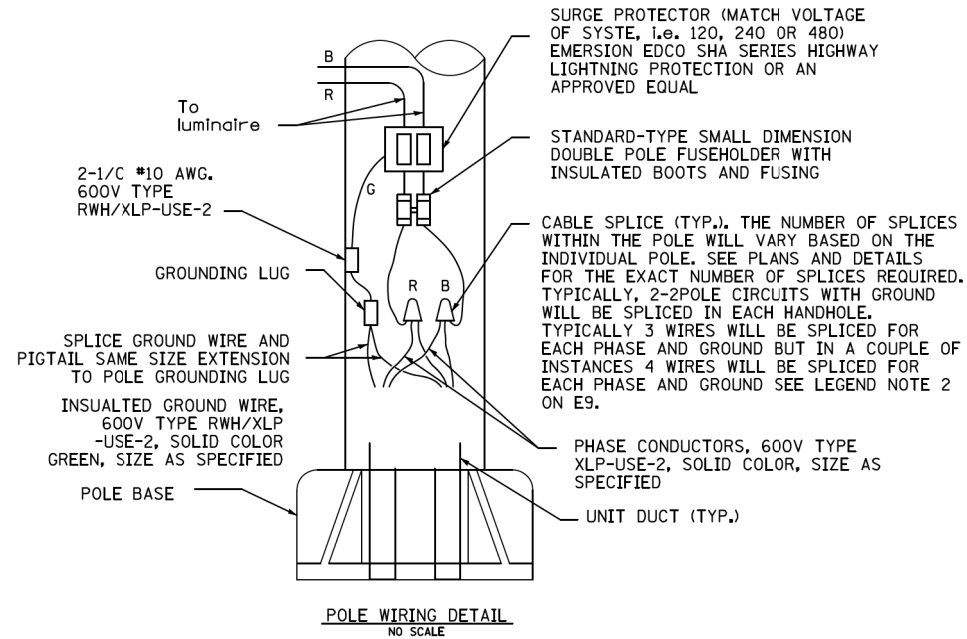
INSTALL AND ORIENT ARM BRACKET OVER POLE TENON AND FIRMLY HAND TIGHTEN THE TWO SET SCREWS. USE THIRD HOLE IN ARM BRACKET AS A GUIDE TO DRILL A 8.3 (3/4) DIAMETER HOLE THROUGH TENON. INSTALL AND TIGHTEN SELF-TAPPING SCREW. TIGHTEN SET SCREWS AN ADDITIONAL (1/4 TO 3/8) TURN WITH HEX KEY (NOT PROVIDED). INSTALL LOCKNUTS ON SET SCREWS IF THREADED PROJECTION ALLOWS.

POLE SHALL MEET ASSHTO STANDARD SPECIFICATIONS FOR 128.72KM (80 MPH) WIND LOADING AND 40.82KG (90 LB), .37 M² (4.0 SQ. FT.) E.P.A. LUMINAIRE.



THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION OF EACH NEW LIGHT POLE, AS SHOWN ABOVE, INCIDENTAL TO THE RESPECTIVE LIGHT POLE PAY ITEM. THE NUMERALS SHALL BE 75(3) SERIES "D", BLACK, SCREENED ON SILVER-WHITE TYPE B PRESSURE SENSITIVE REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SECTION T602.01 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. THE NUMERALS SHALL CONFORM TO THE FHWA "STANDARD ALPHABETS FOR HIGHWAY SIGNS".

THE LIGHT POLE IDENTIFICATION SHALL BE APPLIED TO SIGN BASE MATERIAL AS SPECIFIED IN SECTION 1069.06 OF THE STANDARD SPECIFICATIONS, APPROXIMATELY 180(7) ABOVE THE ADJACENT PAVEMENT GRADE VISIBLE TO APPROACHING TRAFFIC IN ACCORDANCE WITH HIGHWAY STANDARD 835001.



NOTES:

1. ALL TAPED SPLICES SHALL USE 2 LAYERS OF ELECTRICAL TAPE OVER 3 LAYERS OF RUBBER TAPE AS REQUIRED BY THE STANDARD SPECIFICATION. COAT THE FINISH TAPED SPLICE WITH BONDING COMPOUND.
2. ALL CABLE SPLICES SHALL BE TAPED UNLESS ANOTHER METHOD HAS BEEN SPECIFICALLY APPROVED BY THE ENGINEER.
3. THE NUMBER OF CABLES IN SPLICE MAY VARY.

NOTES:

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

FOR INFORMATION ONLY

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING PLANS - FOR INFORMATION ONLY

SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. TO STA.

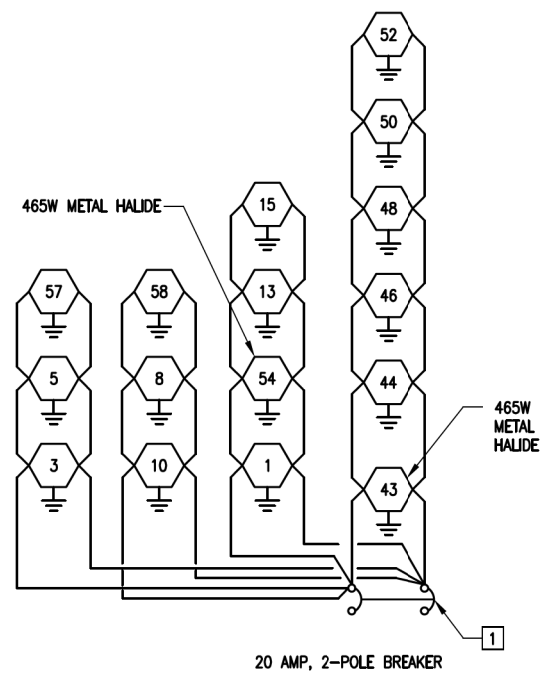
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	43
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	



USER NAME = kjk	DESIGNED - JMS	REVISED -
ESCA PROJECT NO. 114013	DRAWN - SKM	REVISED -
PLOT DATE = 3/14/2018	CHECKED - JMS	REVISED -
	DATE - 07/17	REVISED -

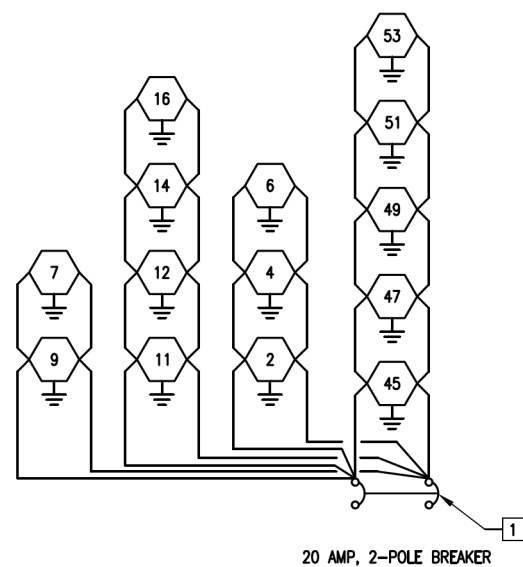
GENERAL NOTES:

1. UNLESS OTHERWISE NOTED ALL LIGHTS ARE 130W LED.
2. ALL SPLICES ARE TO BE MADE IN THE LIGHT POLE AT THE POLE HANDHOLE AND NOT IN THE IN-GRADE HANDHOLES PER ARTICLE 1066.06 OF THE STANDARD SPECIFICATIONS.



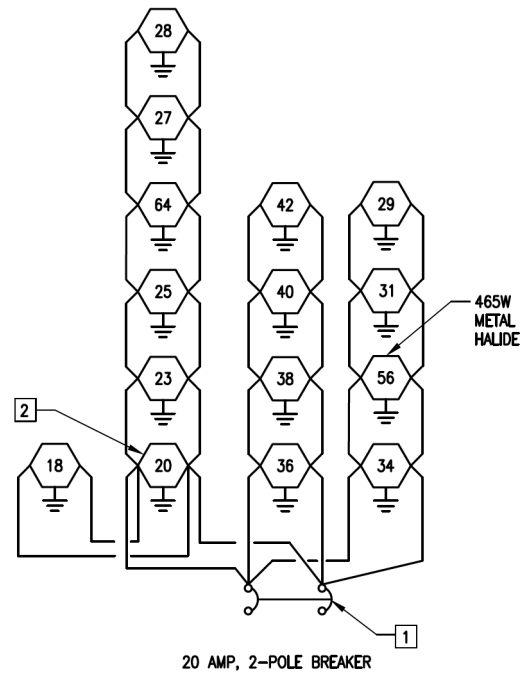
CIRCUIT 1

CONTROLLER
100 AMP, 480 VOLT, SINGLE PHASE,
5016 VA TOTAL LOAD



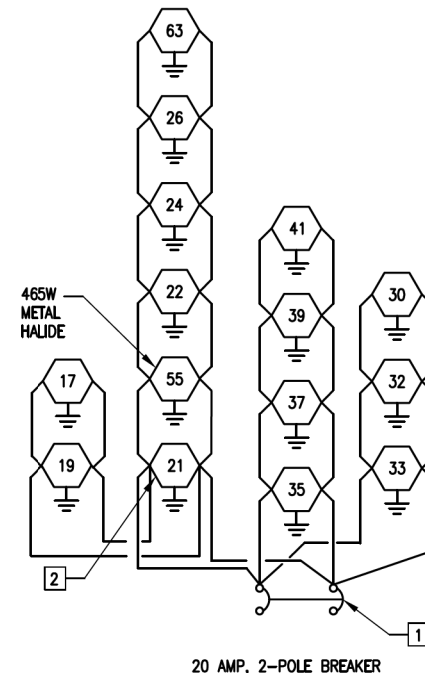
CIRCUIT 2

CONTROLLER
100 AMP, 480 VOLT, SINGLE PHASE,
5472 VA TOTAL LOAD



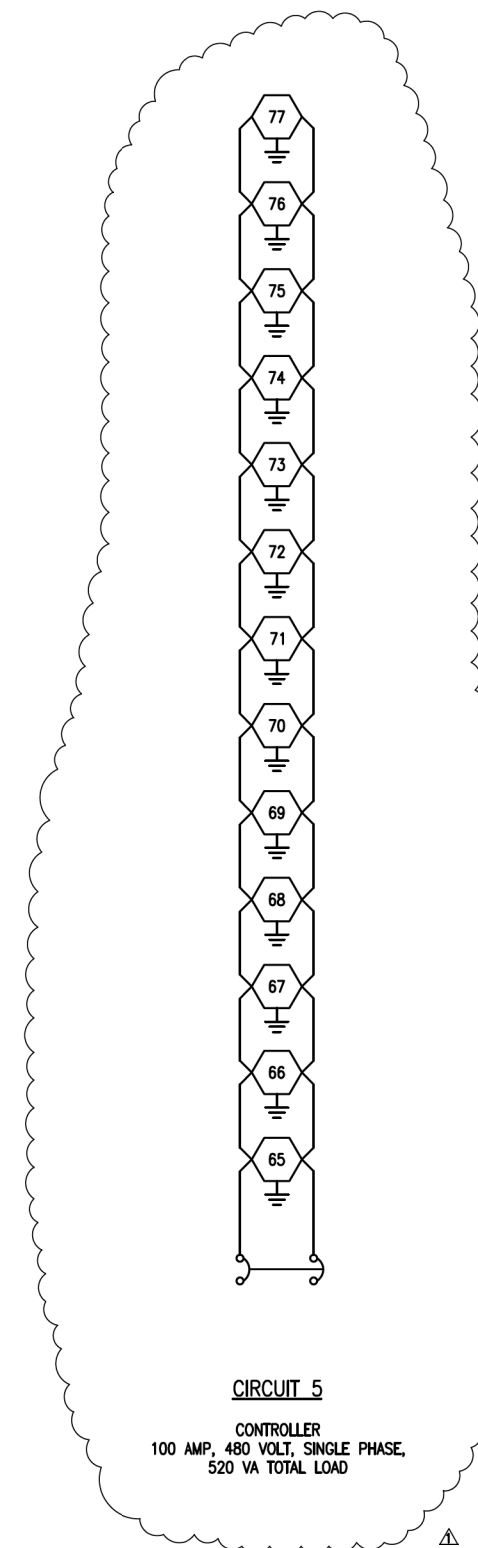
CIRCUIT 3

CONTROLLER
100 AMP, 480 VOLT, SINGLE PHASE,
6384 VA TOTAL LOAD



CIRCUIT 4

CONTROLLER
100 AMP, 480 VOLT, SINGLE PHASE,
5928 VA TOTAL LOAD



CIRCUIT 5

CONTROLLER
100 AMP, 480 VOLT, SINGLE PHASE,
520 VA TOTAL LOAD

KEYED NOTES:

1. ADJUST TERMINAL STRIPS LOCATED ON THE LOAD SIDE OF THE CIRCUIT BREAKERS IN THE LIGHTING CONTROLLER TO ACCEPT THE NUMBER OF WIRES INDICATED ON THIS SHEET.
2. ALL LIGHT POLES TO HAVE (1 CONDUIT IN 1 CONDUIT OUT) WITHIN THE HANDHOLES EXCEPT THOSE CALLED OUT BY THIS KEYED NOTE. THOSE CALLED OUT HAVE (1 CONDUIT IN 2 CONDUITS OUT). FOR THESE POLES THREE WIRES ARE TO BE SPLICED TOGETHER FOR EACH CIRCUIT PHASE INSTEAD OF JUST 2.

REVISED - Δ 9/2/2015

FOR INFORMATION ONLY

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING PLANS - FOR INFORMATION ONLY

SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	44
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

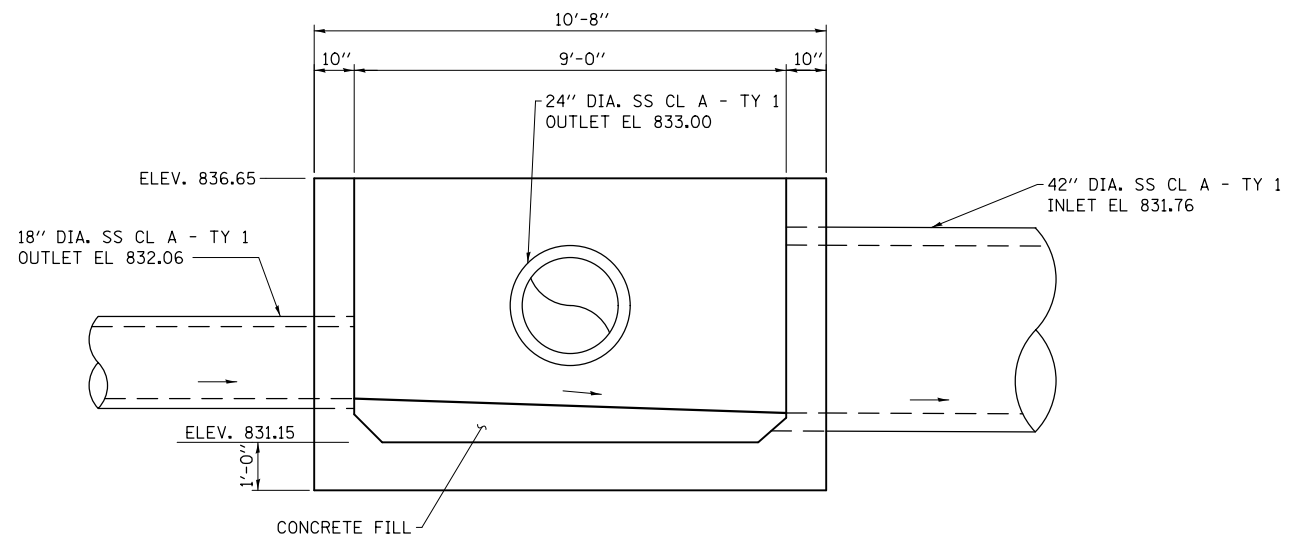
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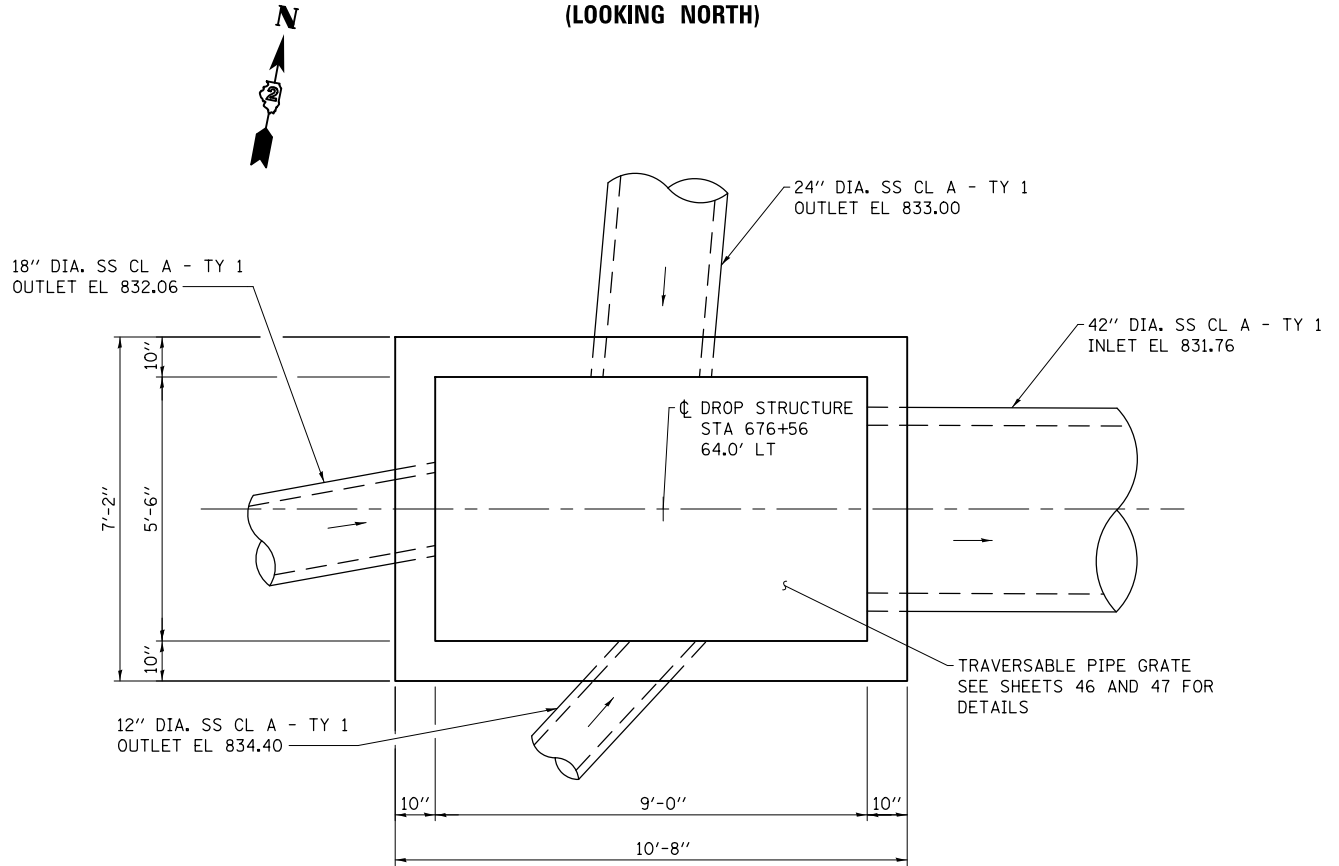
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PLOT DATE = 3/14/2018 9:23:33 AM

DESIGNED - JMS
DRAWN - SKM
CHECKED - JMS
DATE - 07/17

REVISED -
REVISED -
REVISED -
REVISED -



PROFILE
(LOOKING NORTH)



PLAN

NOTE: SEE SHEET NO. 32 FOR ADDITIONAL STORM SEWER DETAILS

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
DROP STRUCTURE NUMBER 1	EACH	1
TRAVERSABLE PIPE GRATE	FOOT	33

GENERAL NOTES

1. THE DROP STRUCTURE LOCATED ON THE NORTH SIDE OF US BUS 20 SHALL BE CAST-IN-PLACE. PRECAST SUBSTITUTION IS NOT ALLOWED.
2. FOR BACKFILLING AND EMBANKMENT, SEE THE GENERAL NOTES ON SHEET 3 AND THE STANDARD SPECIFICATIONS.
3. THE COST OF CONNECTING THE PROPOSED STORM SEWERS TO THE DROP STRUCTURE IS INCLUDED IN THE COST OF THE DROP STRUCTURE NO. 1.
4. THE CONTRACT UNIT PRICE FOR DROP STRUCTURE NO. 1 SHALL INCLUDE THE CONCRETE STRUCTURES, REINFORCEMENT BARS, CONCRETE FILL, EARTH EXCAVATION WHERE REQUIRED, BACKFILLING AND NECESSARY GRADING TO FIT THE STRUCTURE AS SHOWN IN THE PLANS.
5. THE CONTRACT UNIT PRICE FOR TRAVERSABLE PIPE GRATE SHALL INCLUDE THE STEEL PIPE GRATE SYSTEM, STEEL PLATES, BOLTS, NUTS AND WASHERS AND ALL LABOR NECESSARY TO CONSTRUCT.
6. STEEL PIPES SHALL CONFORM TO ASTM A-53 (TYPE E OR S) GRADE B, SCHEDULE 40 & SHALL BE GALVANIZED CONFORMING TO ASTM A-120.
7. STEEL PLATES SHALL CONFORM TO AASHTO M-183 & SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.
8. BOLTS, NUTS, & WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED.
9. CONTRACTOR SHALL FIELD VERIFY GALVANIZED PIPE LENGTH PRIOR TO ORDERING MATERIALS.
10. THE MINIMUM DISTANCE FROM THE CENTER OF A HOLE TO THE FREE EDGE OF A STRUCTURAL SHAPE OR PLATE SHALL BE 1/2" UNLESS NOTED OTHERWISE.
11. BOLTS AND ANCHOR RODS SHALL BE SNUG TIGHTENED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL FORCE OF A WORKER USING AN ORDINARY SPUD WRENCH.
12. THIS WORK SHALL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF 501, 503, 505, 508, AND 540 OF THE STANDARD SPECIFICATIONS.
13. FABRICATION OF THE STEEL PIPE GRATE SYSTEM SHALL CONFORM TO THE REQUIREMENTS IN SECTION 505 OF THE STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE.
14. 12", 18", 24" & 42" DIAMETER STORM SEWERS WILL BE INCORPORATED INTO CONSTRUCTION OF THE DROP BOX WALLS.
15. TRAVERSABLE PIPE GRATE IS DESIGNED FOR TEST LEVEL 3.

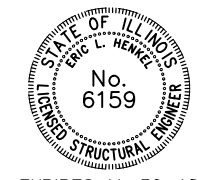
DESIGN SPECIFICATIONS

2014 AASHTO LRFD
BRIDGE DESIGN SPECIFICATIONS
7TH EDITION WITH 2015 AND 2016 INTERIMS

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 PSI
fy = 60,000 PSI (REINFORCEMENT BARS)



EXPIRES 11-30-18

Eric L. Henkel
SIGNATURE

12-11-17
DATE

PRINT DRIVER = L:\E-Books\1406167.dwg
 PLOT DATE = 3/14/2018 9:23:46 AM
 PLOT SCALE = 0.1667 / 1" = 1'-0"



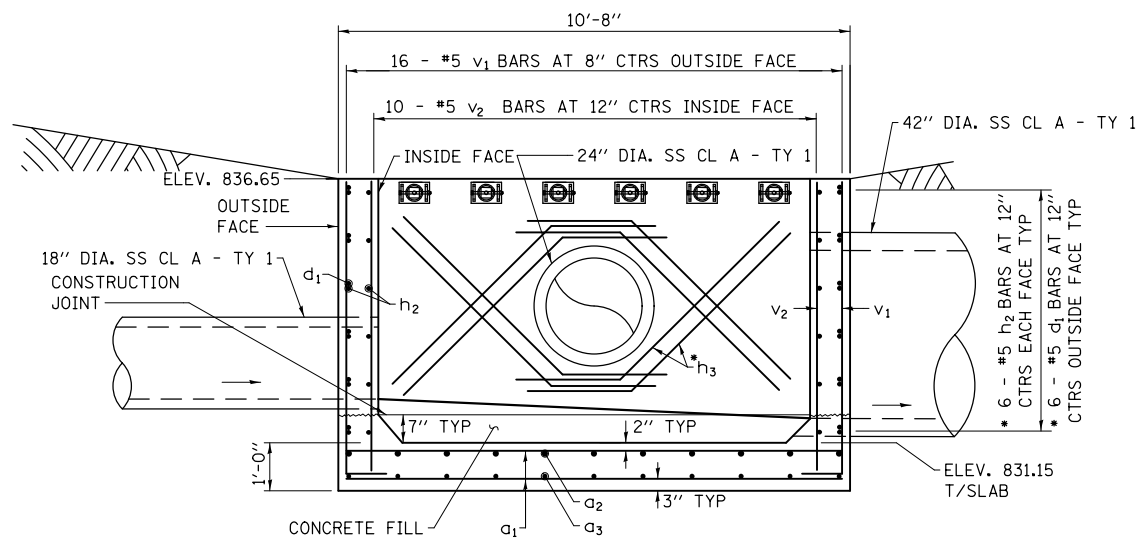
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ESCA PROJECT NO. 1140.13	DRAWN - SKM	REVISED -
PLOT SCALE = 0.1667 / 1" = 1'-0"	CHECKED - ELH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

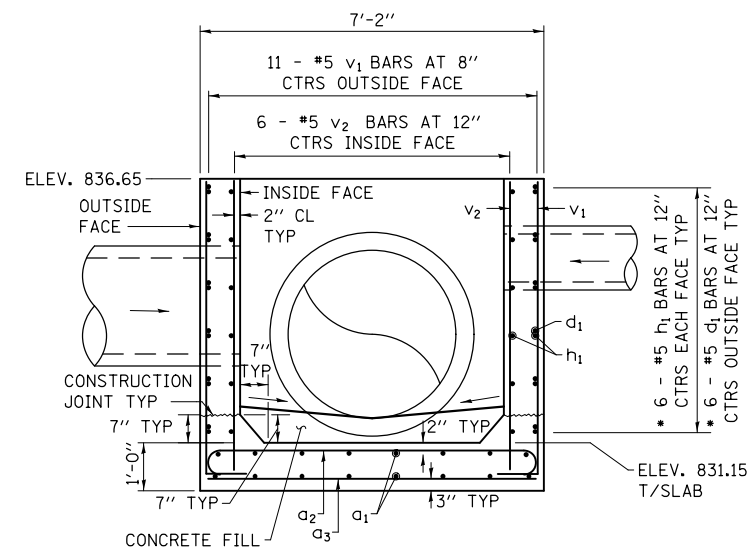
DROP STRUCTURE DETAILS

SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

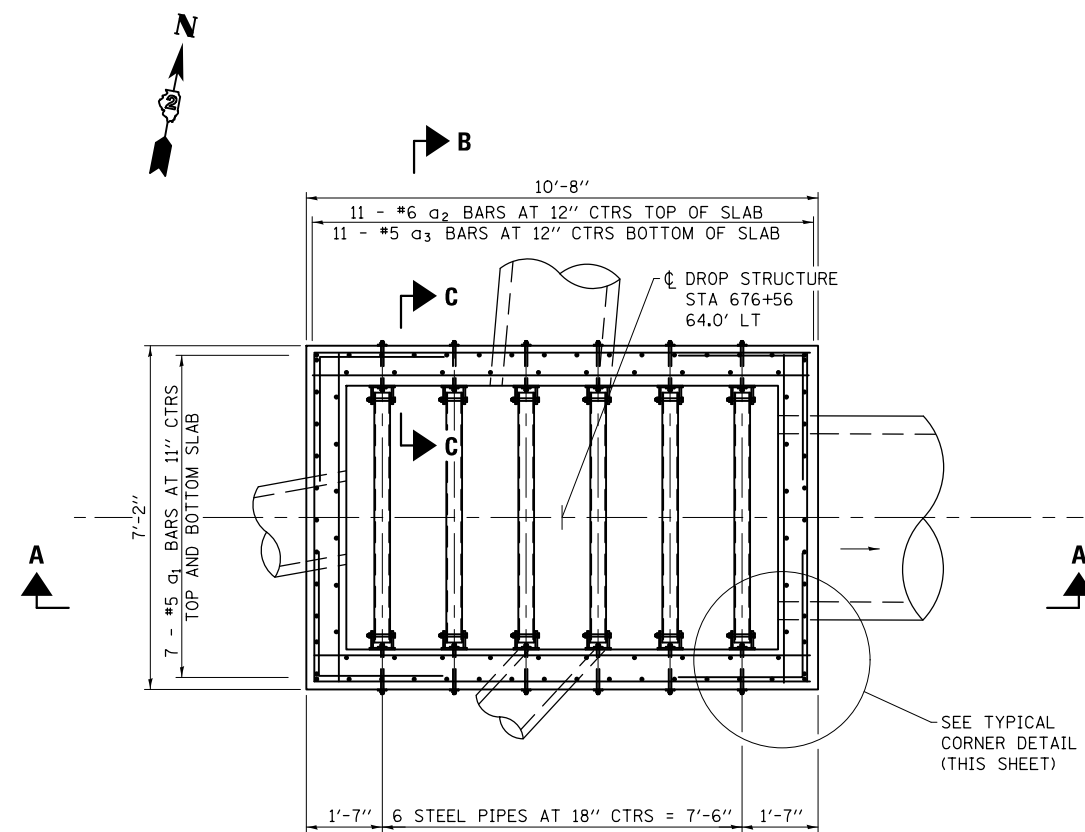


SECTION A-A

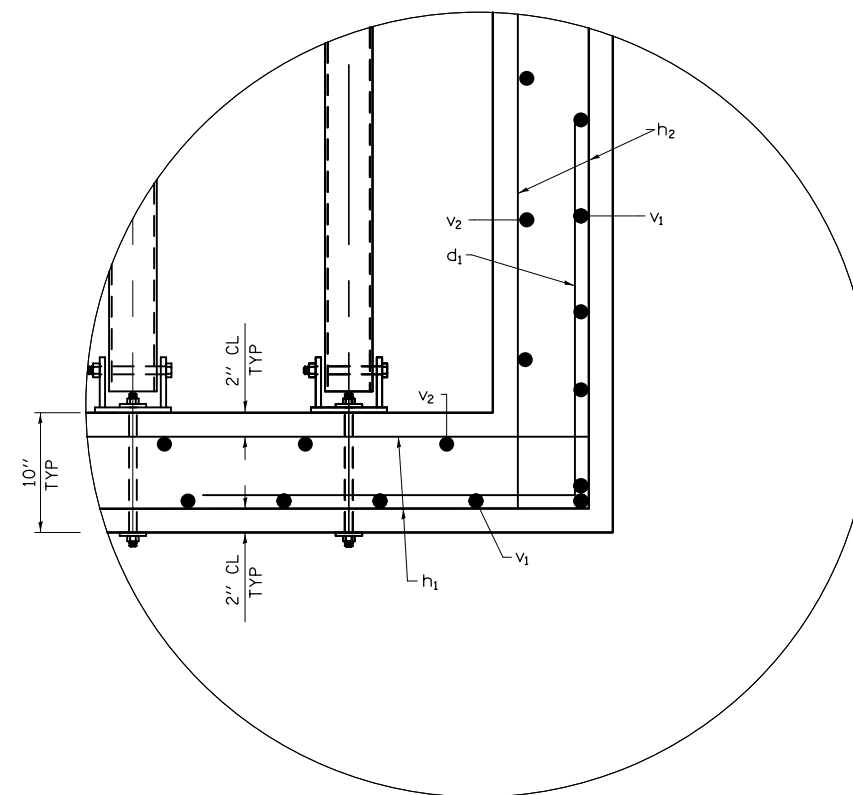


SECTION B-B

* TRIM BARS AS NECESSARY TO MAINTAIN CLEARANCES, SEE TYPICAL DETAIL ON SHEET 47 FOR h_3 BARS IN ALL FOUR WALLS



PLAN



TYPICAL CORNER DETAIL

PRINT DRIVER = L:\ESCA\Projects\64L90\Drawings\64L90-2.dwg
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USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 0.1667' / 1" = 1/6"
 PLOT DATE = 3/14/2018 9:23:48 AM

DESIGNED - RTM
 DRAWN - SKM
 CHECKED - ELH
 DATE - 09/17

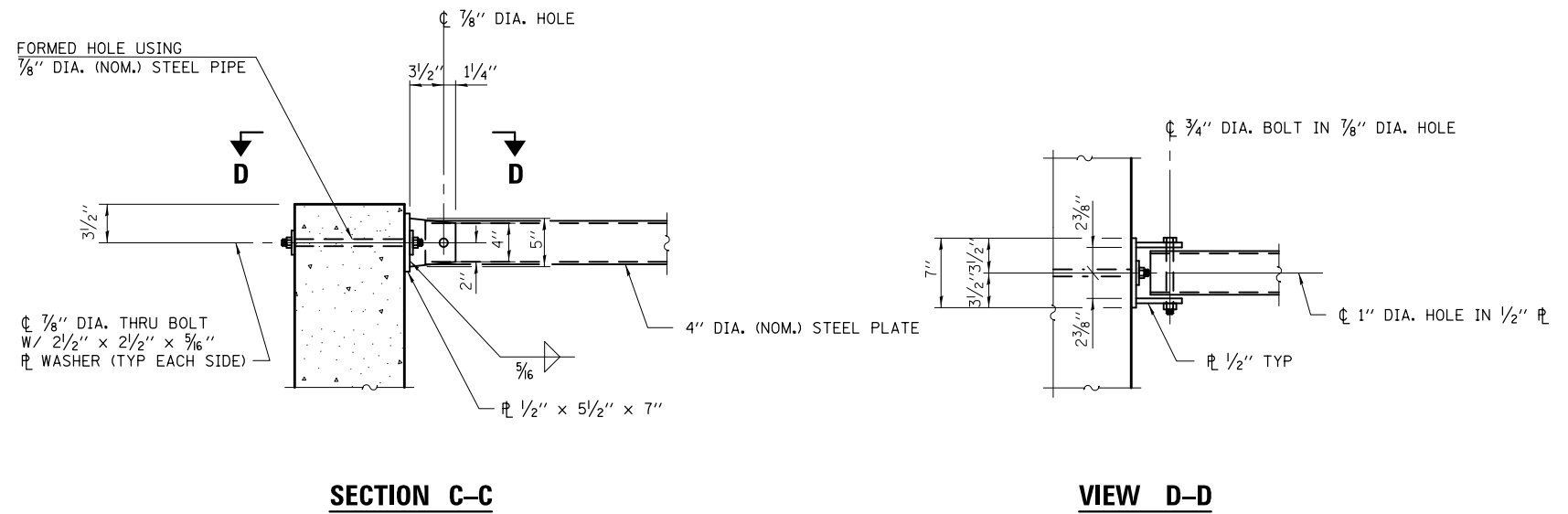
REVISED -
 REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

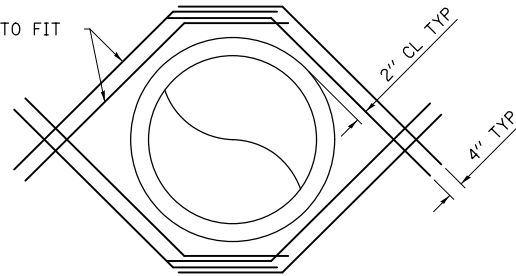
DROP STRUCTURE DETAILS

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

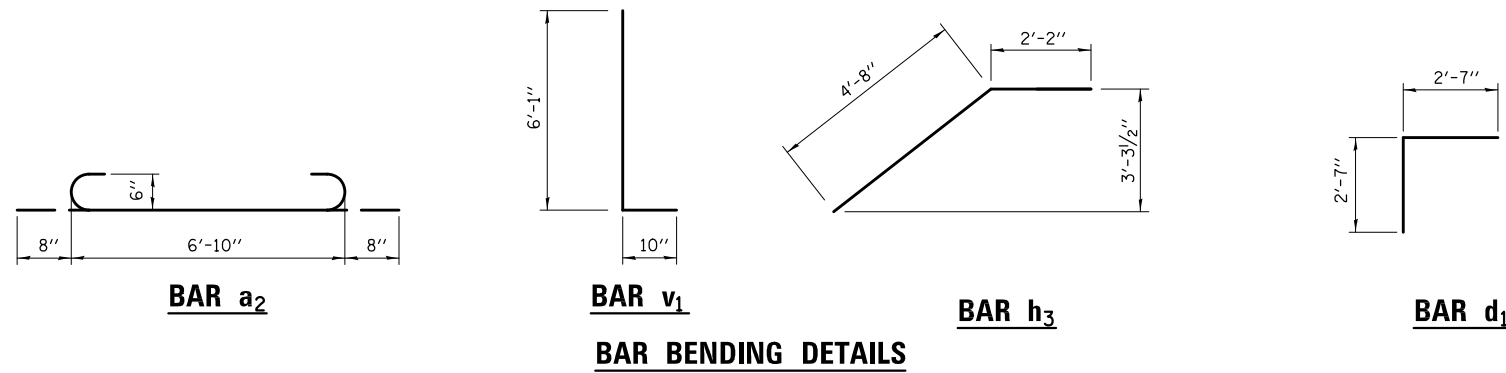
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	46
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



8 - #4 h₃ BARS AT 4" CTRS
TYP EACH FACE,
TRIM AS REQUIRED TO FIT



TYPICAL DETAIL - STORM SEWER PENETRATION



BILL OF MATERIAL

(FOR INFORMATION ONLY)

BAR	NO.	SIZE	LENGTH	SHAPE
a ₁	14	#5	10'-4"	—
a ₂	11	#6	8'-2"	⌋
a ₃	11	#5	6'-10"	—
d ₁	24	#5	5'-2"	└
h ₁	24	#5	10'-4"	—
h ₂	24	#5	6'-10"	—
h ₃	64	#4	6'-10"	—
v ₁	54	#5	6'-11"	└
v ₂	32	#5	6'-1"	—
			CU YD	8.6
			POUND	1810
			EACH	12
			EACH	12
			EACH	12

- CONCRETE STRUCTURES
- REINFORCEMENT BARS
- 4" GALV. STEEL PIPE
- 3/4" GALV. STEEL BOLTS
- 7/8" GALV. STEEL BOLTS
- SIDE ASSEMBLY
- INCLUDED IN DROP STRUCTURE NUMBER 1
- INCLUDED IN TRAVERSABLE PIPE GRATE WITH ALL HARDWARE AND STEEL FOR ASSEMBLIES

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PLOT SCALE = 0.1667 / 1" = 1/6"
PLOT DATE = 3/14/2018 9:23:50 AM



USER NAME = kjk
ESCA PROJECT NO. 114013
PLOT SCALE = 0.1667 / 1" = 1/6"
PLOT DATE = 3/14/2018 9:23:50 AM

DESIGNED - RTM
DRAWN - SKM
CHECKED - ELH
DATE - 07/17

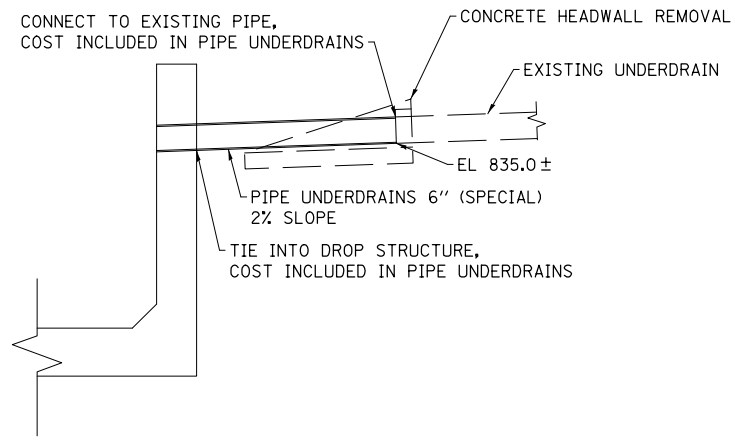
REVISED -
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REVISED -

STATE OF ILLINOIS
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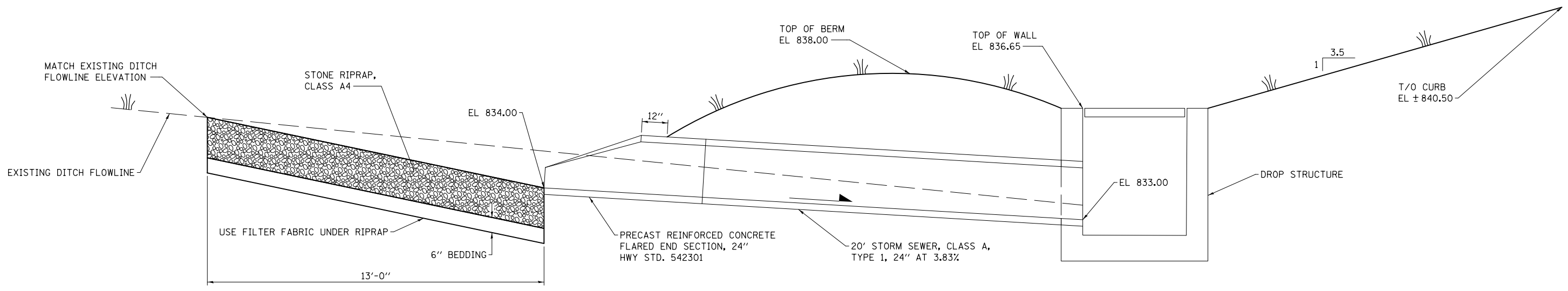
DROP STRUCTURE DETAILS

SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	47
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	



ELEVATION OF PIPE UNDERDRAIN CONNECTION TO DROP STRUCTURE



LONGITUDINAL SECTION THROUGH TOLLWAY DITCH PIPE

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 PLOT SCALE = 0.1667' / 1"



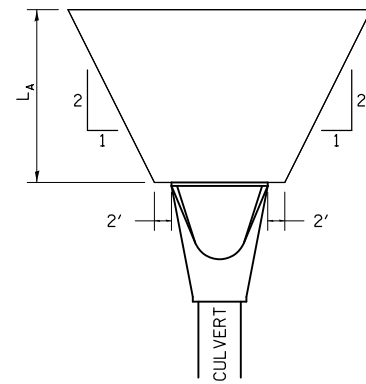
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ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
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PLOT DATE = 3/14/2018 9:23:52 AM	DATE - 12/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

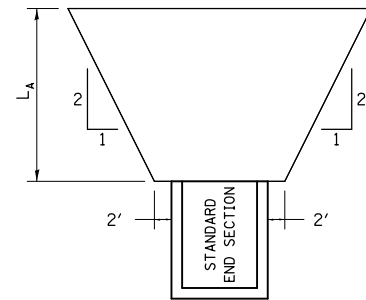
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	48
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64L90	

RIPRAP AT END SECTIONS



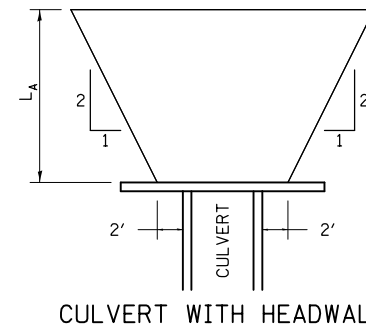
FLARED END SECTION

L_A = APRON LENGTH (ft)
 IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L_A).
 STANDARD END SECTION:
 542001 (PIPE), 542011 (ELLIPTICAL)
 DISTRICT STANDARD 10.1 (BOX).

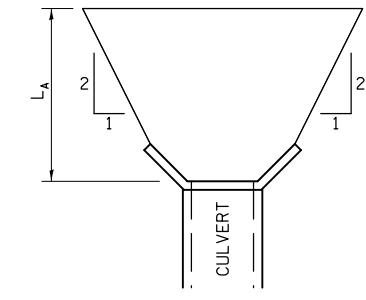


STANDARD END SECTION

REVISED - 7-13-16
 REVISED - 11-12-14
 REVISED - 2-10-14



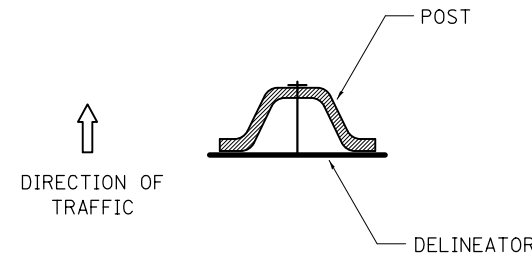
CULVERT WITH HEADWALL



CULVERT WITH WING WALLS

RIPRAP AT END SECTIONS 19.4

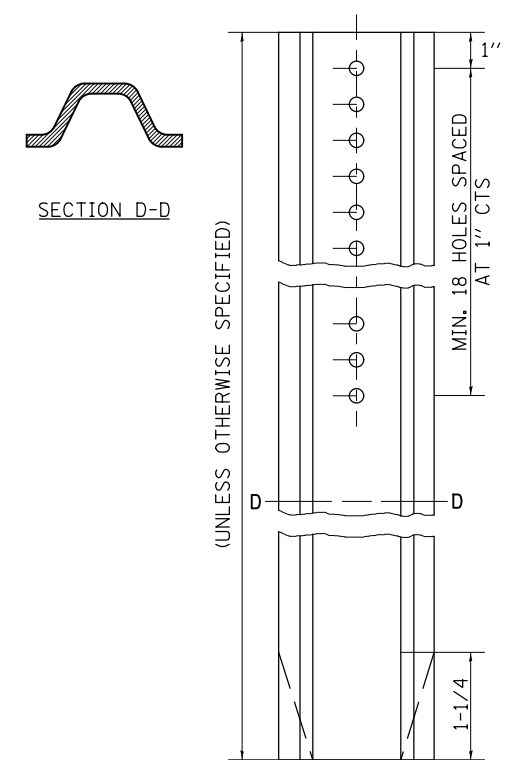
DELINEATOR AND POST ORIENTATION



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

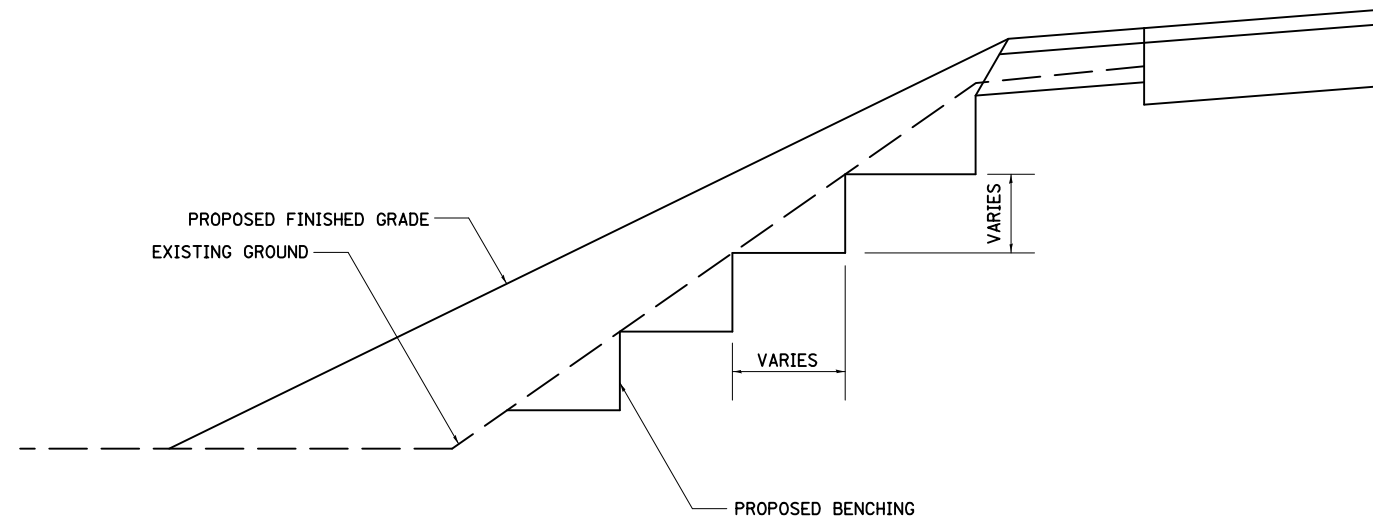
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11



DELINEATOR AND POST ORIENTATION 37.4

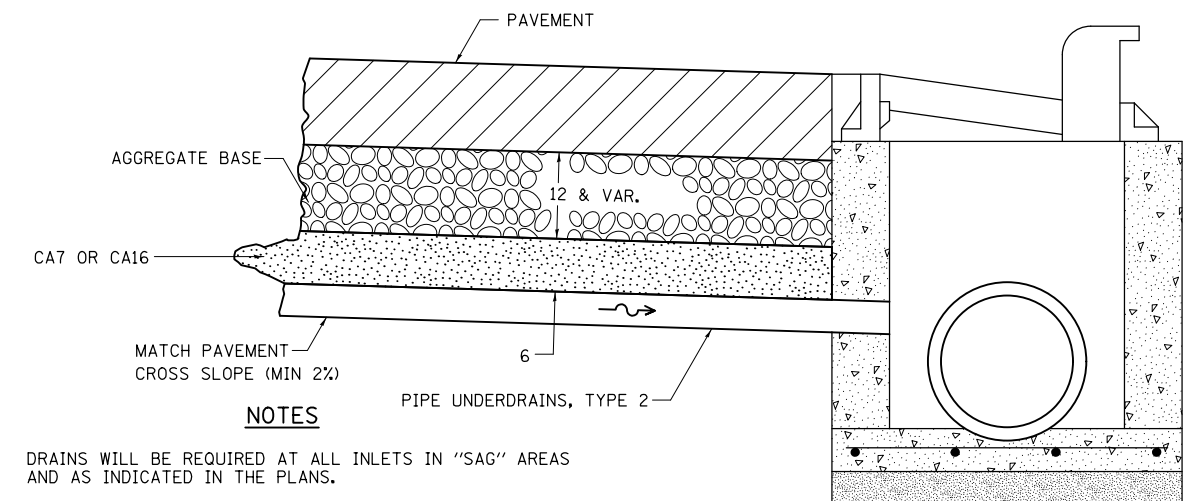
TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

DRAIN FOR AGGREGATE BASES IN URBAN AREAS



DRAINS WILL BE REQUIRED AT ALL INLETS IN "SAG" AREAS AND AS INDICATED IN THE PLANS.

THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE UNDERDRAINS, TYPE 2 OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16, THE CONNECTION TO THE INLET, AND THE GEOTECHNICAL FABRIC.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-05-16
 REVISED - 10-05-11

DRAIN FOR AGGREGATE BASES IN URBAN AREAS 88.4



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
PLOT SCALE = 20.000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:23:54 AM	DATE - 09/17	REVISED -

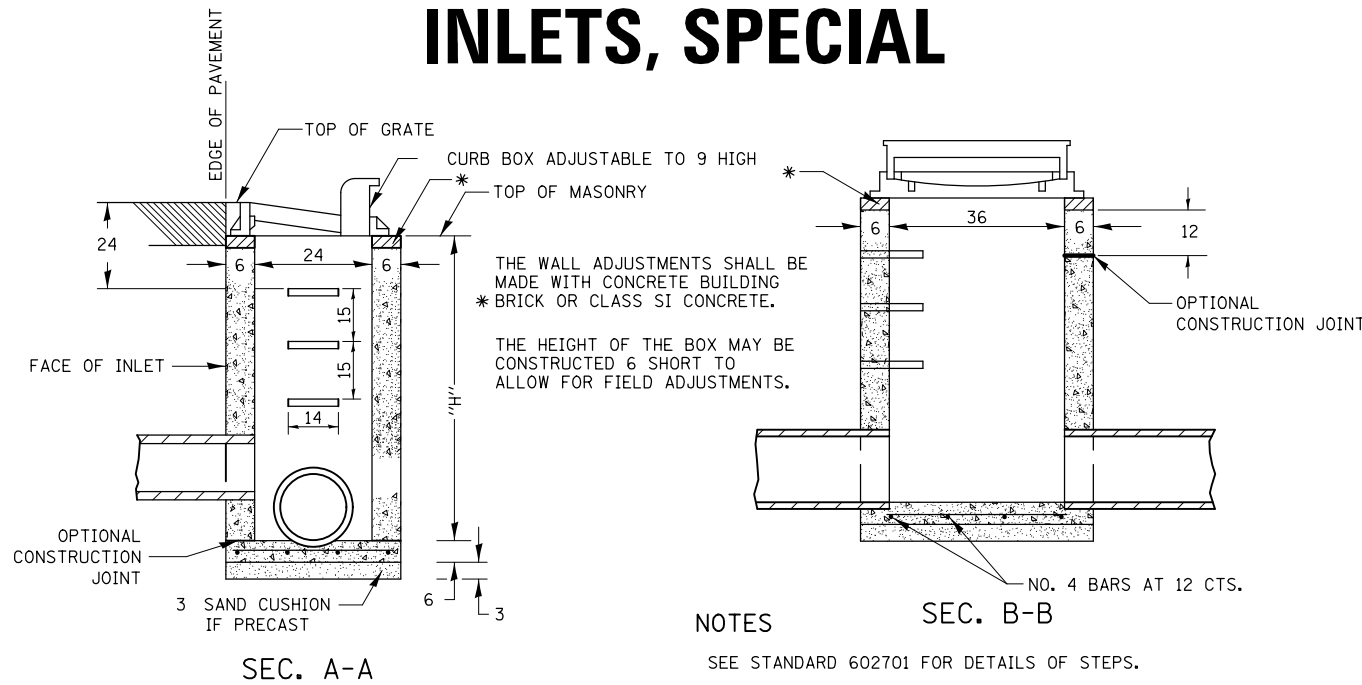
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

SCALE: NONE SHEET NO. 1 OF 9 SHEETS STA. TO STA.

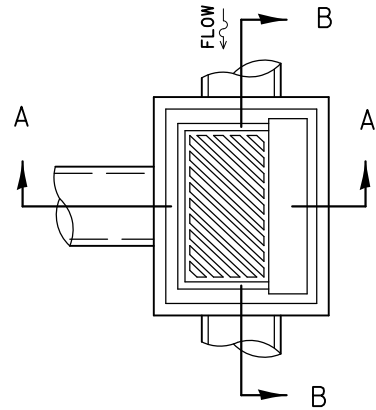
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	49
CONTRACT NO. 64L90				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

INLETS, SPECIAL

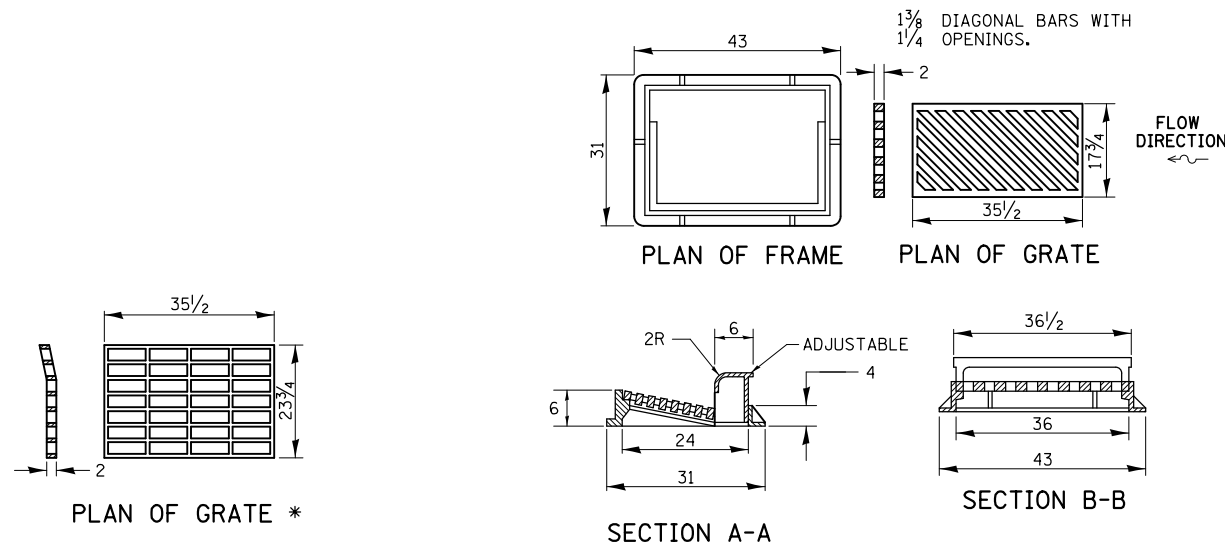


SEC. A-A

SEC. B-B



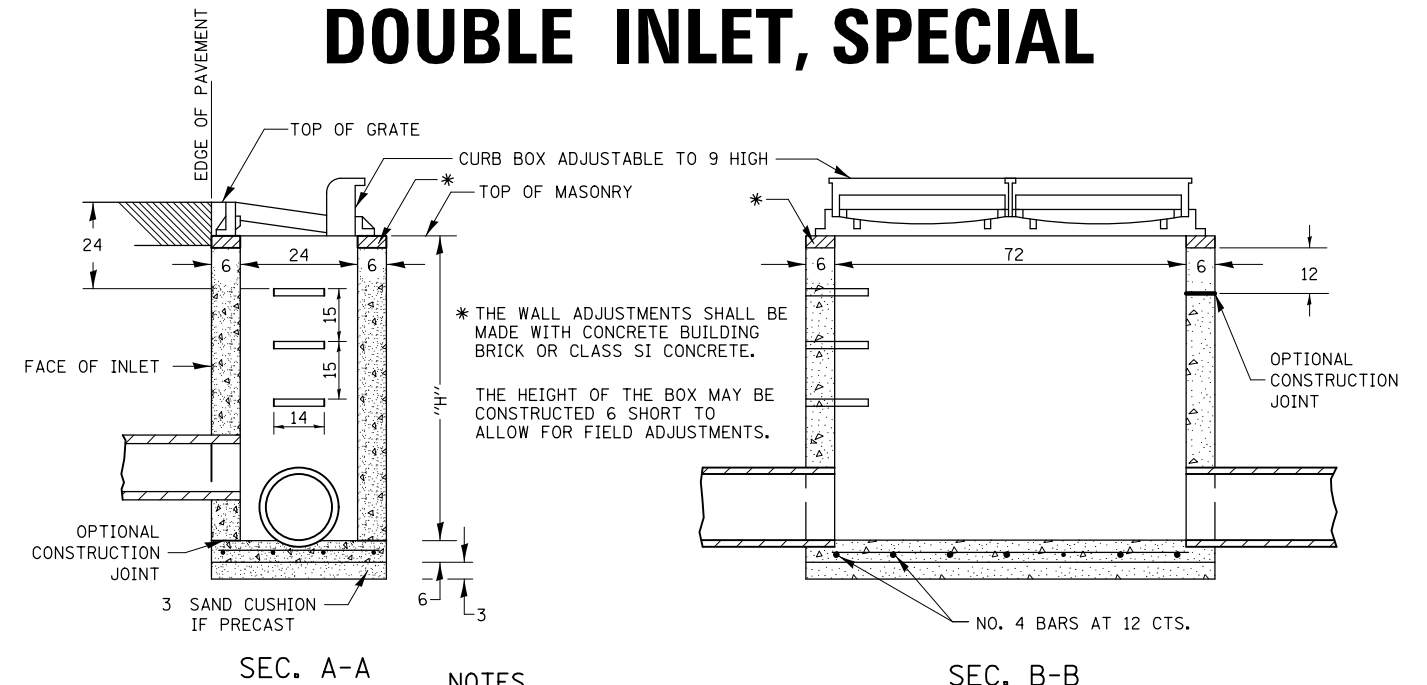
DETAIL OF FRAME & GRATE



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

INLETS, SPECIAL 10.2

DOUBLE INLET, SPECIAL



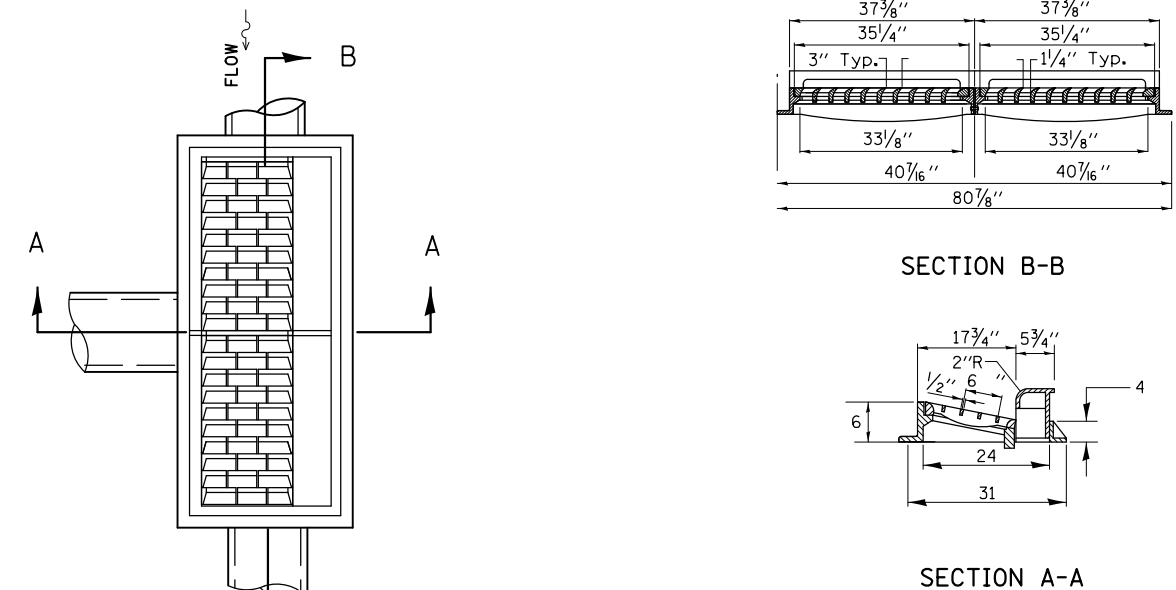
SEC. A-A

SEC. B-B

NOTES

- SEE STANDARD 602701 FOR DETAILS OF STEPS.
- EXCEPT AS NOTED HEREON DOUBLE INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
- THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.
- ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.
- R-3295-2 DOUBLE UNIT OR EQUIVALENT.
- STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 FOOT.
- CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.
- CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

DETAIL OF FRAME & GRATE



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

DOUBLE INLET, SPECIAL 12.2

REVISED - 1-05-16
REVISED - 6-27-14
REVISED - 10-13-11

* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.



USER NAME = kjk
ESCA PROJECT NO. 1140.13
PLOT SCALE = 0.1667' / 1" = 1/6"
PLOT DATE = 3/14/2018 9:23:56 AM

DESIGNED - KJK
DRAWN - KJK
CHECKED - ELH
DATE - 07/17

REVISED -
REVISED -
REVISED -
REVISED -

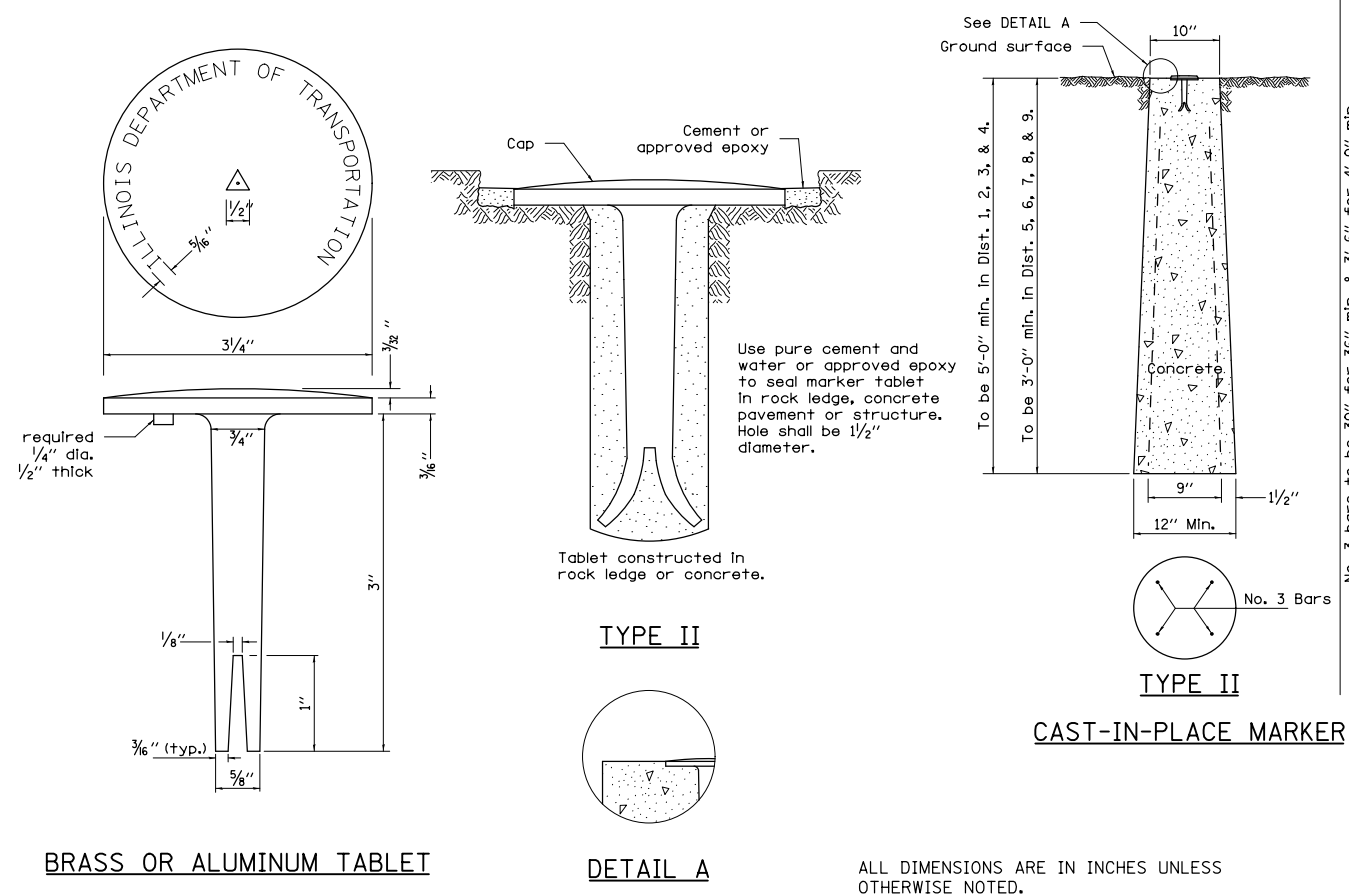
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

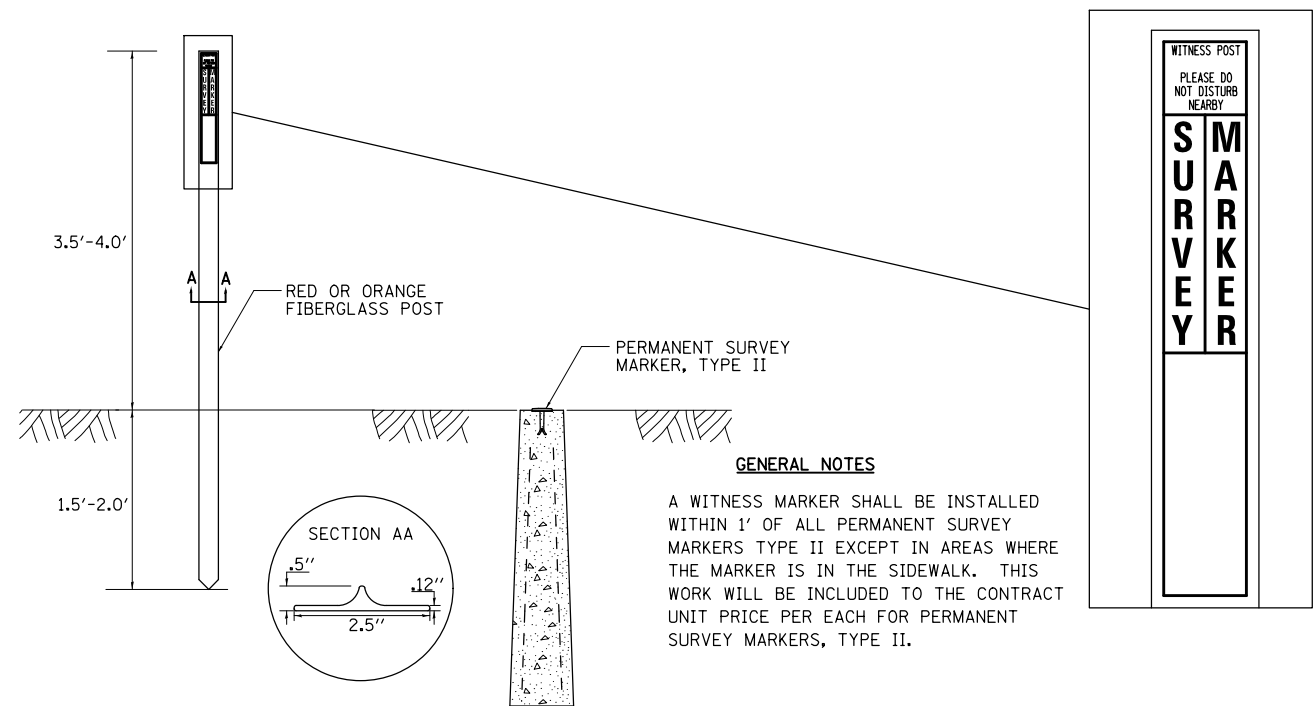
SCALE: NONE SHEET NO. 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	50
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

PERMANENT SURVEY MARKERS, TYPE II



WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



PERMANENT SURVEY MARKERS, TYPE II 66.2

REVISED - 6-27-14
REVISED - 10-14-11



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
PLOT SCALE = 20.000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:23:58 AM	DATE - 07/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

SCALE: NONE SHEET NO. 3 OF 9 SHEETS STA. TO STA.

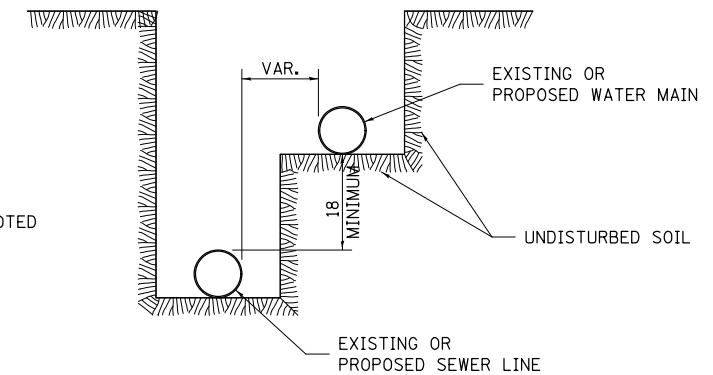
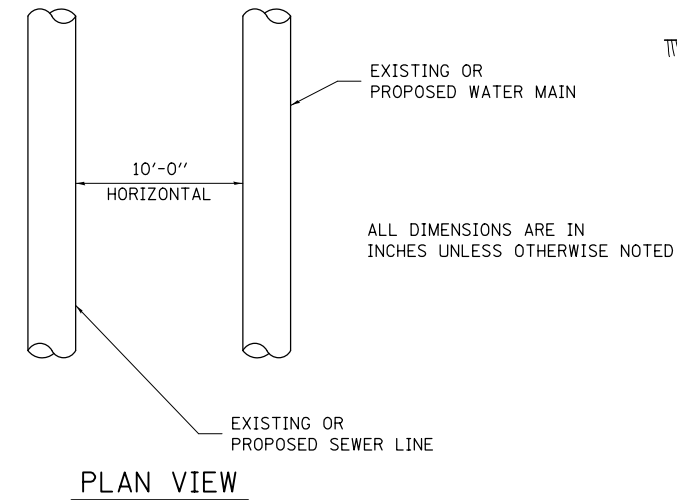
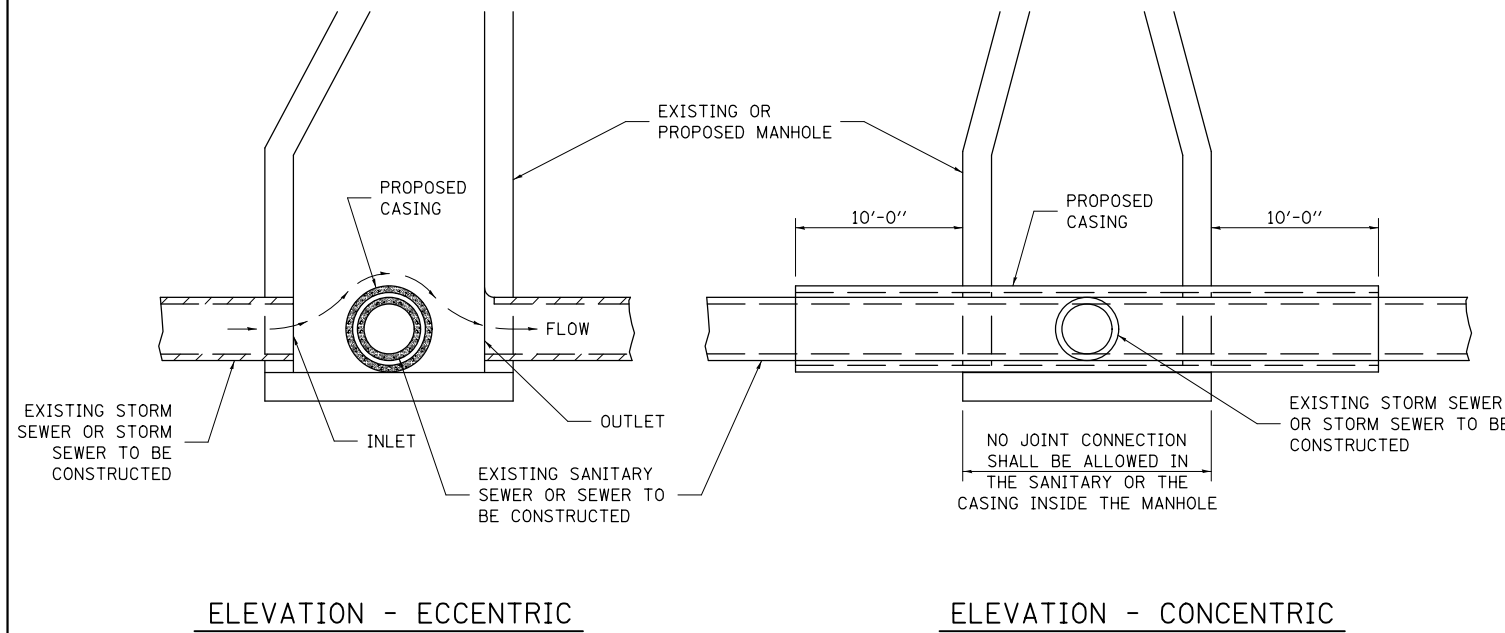
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	51
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

SEWER AND WATER MAIN CROSSINGS

THIS DETAIL IS FOR UNKNOWN UTILITIES UNLESS QUANTITIES ARE INCLUDED IN THE PLANS THE EXTRA WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10'-0" OR MORE FROM EXISTING WATER (OR SEWER) NO SPECIAL CONSTRUCTION REQUIRED.

WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10'-0" FROM EXISTING WATER (OR SEWER) DETAILS BELOW SHALL APPLY.

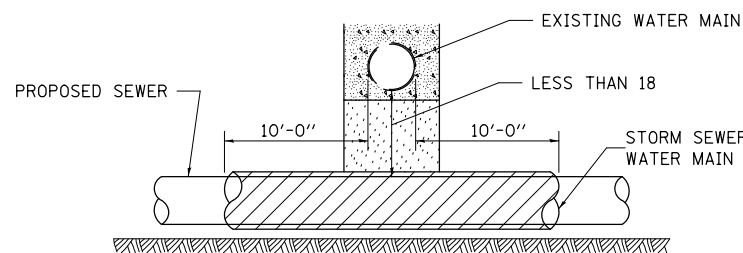


CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

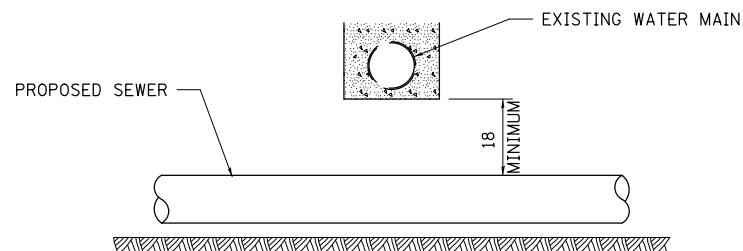
AT GRADE CROSSING OF SANITARY AND STORM SEWER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN
 PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH



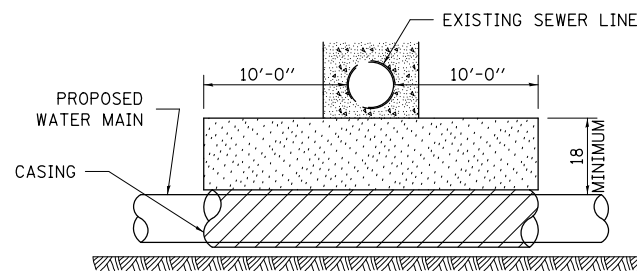
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 18 MINIMUM VERTICAL SEPARATION FOR 10 FT. HORIZONTALLY



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

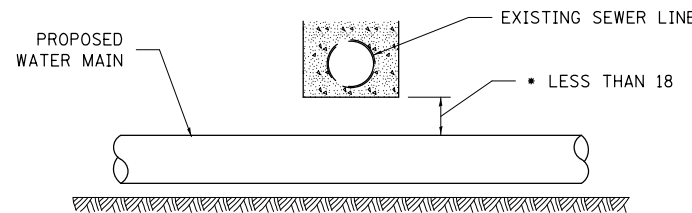
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN

PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT
 PLACE TRENCH BACKFILL FOR 10 FT. ON EITHER SIDE OF SEWER LINE



CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

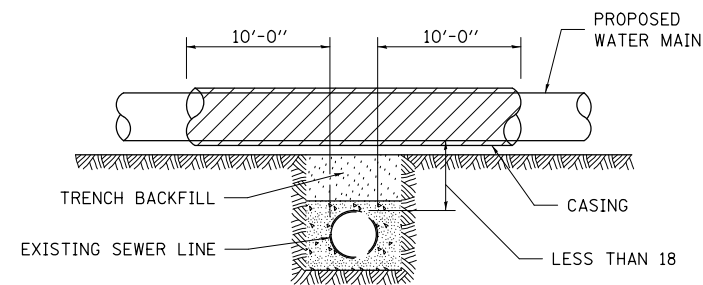
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 18 MINIMUM VERTICAL SEPARATION FOR 10 FT. HORIZONTALLY



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN CASING AND SEWER

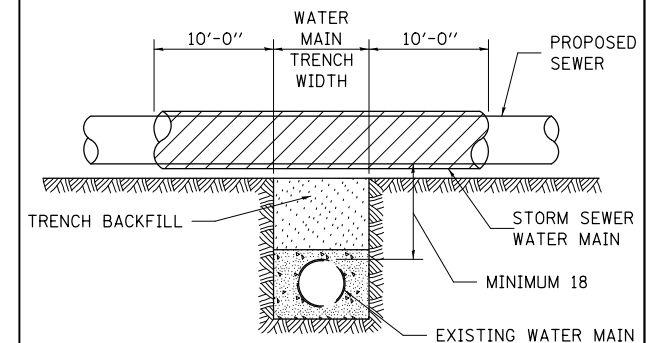


CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE

PROVIDE ADEQUATE SUPPORT FOR SEWER TO PREVENT SETTLING AND BREAKING THE WATER MAIN.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH MINIMUM 18 VERTICAL SEPARATION

SEWER AND WATER MAIN CROSSINGS 32.1



USER NAME = kjk
 ESCA PROJECT NO. 1140.13
 PLOT SCALE = 20.000' / 1" =
 PLOT DATE = 3/14/2018 9:24:00 AM

DESIGNED - KJK
 DRAWN - KJK
 CHECKED - ELH
 DATE - 07/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

SCALE: NONE SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	52
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS

Bill of Materials

h bar	U bar dimensions			Quantity	U ₁ bar dimensions			Quantity	REINF.	EXPANSION	CONCRETE
	X	Y	Length		X	Z	Length		BARS	BOLTS 3/4"	COLLAR
Quantity	X	Y	Length	Quantity	X	Z	Length	Quantity	LBS	EACH	Cu. Yds.
20	4'-11"	3'-2"	11'-3"	4					60	0	1.3
All h bars 18 Long								Total	60	0	1.3

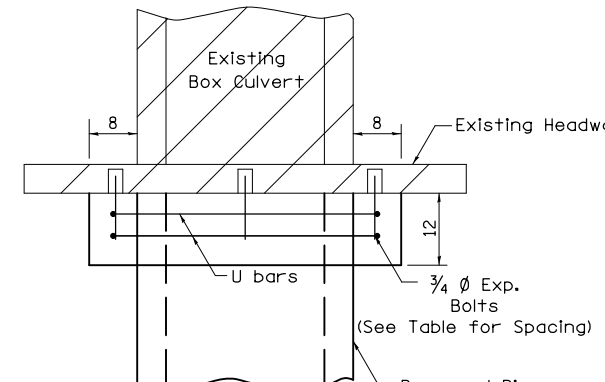
General Notes

Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

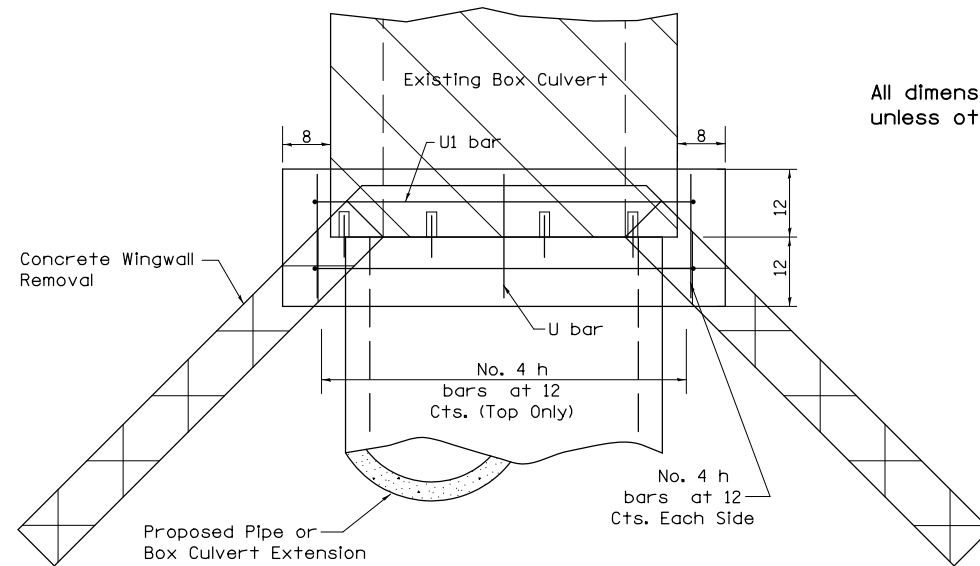
Reinforcement bars shall conform to Section 508 of the Standard Specifications.

Expansion bolts shall be 3/4" ϕ hooked bolts and shall conform to Section 540 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic yard for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per pound for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS 3/4" inch, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 9 inches into the new concrete.

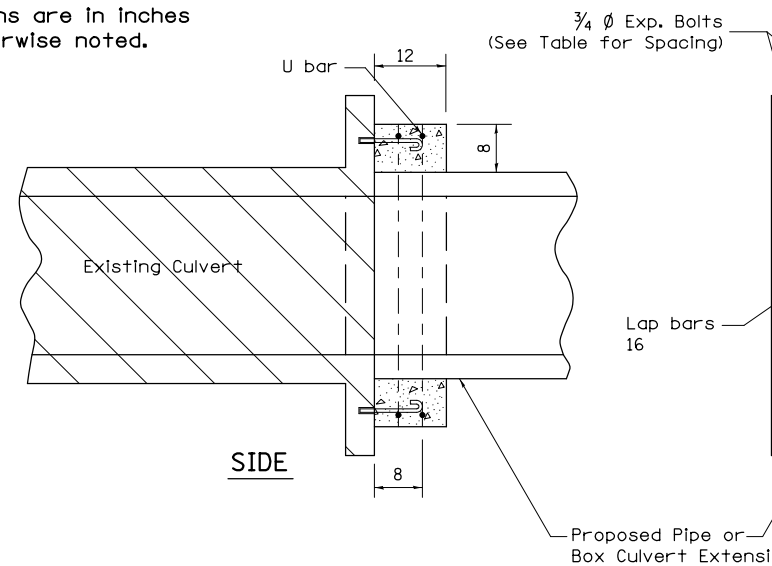


PLAN OF CULVERT WITH STRAIGHT HEADWALL

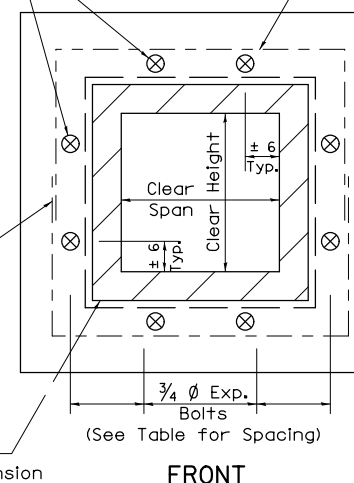


PLAN OF CULVERT WITH ANGLED WING WALLS

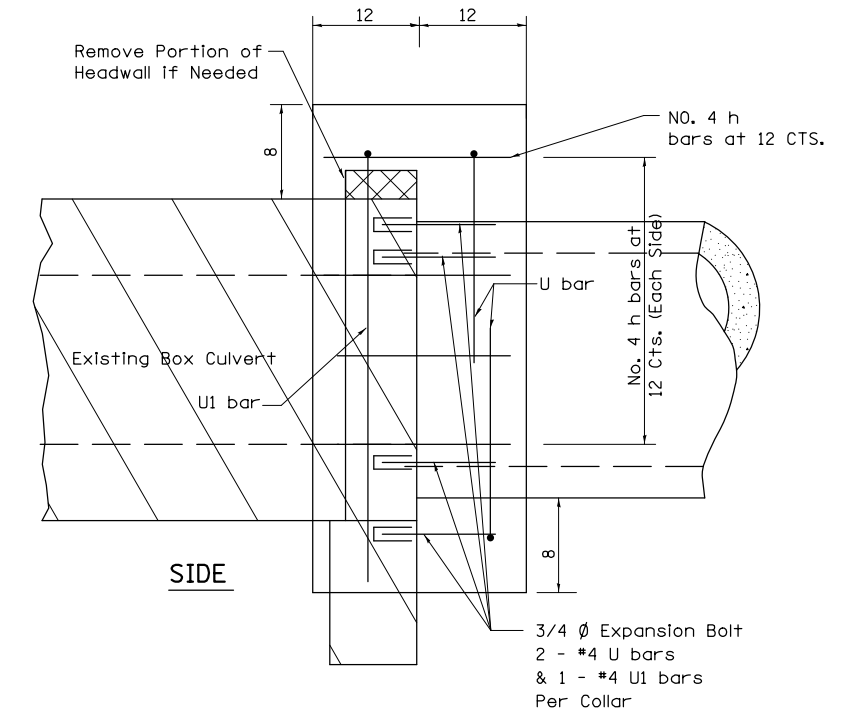
All dimensions are in inches unless otherwise noted.



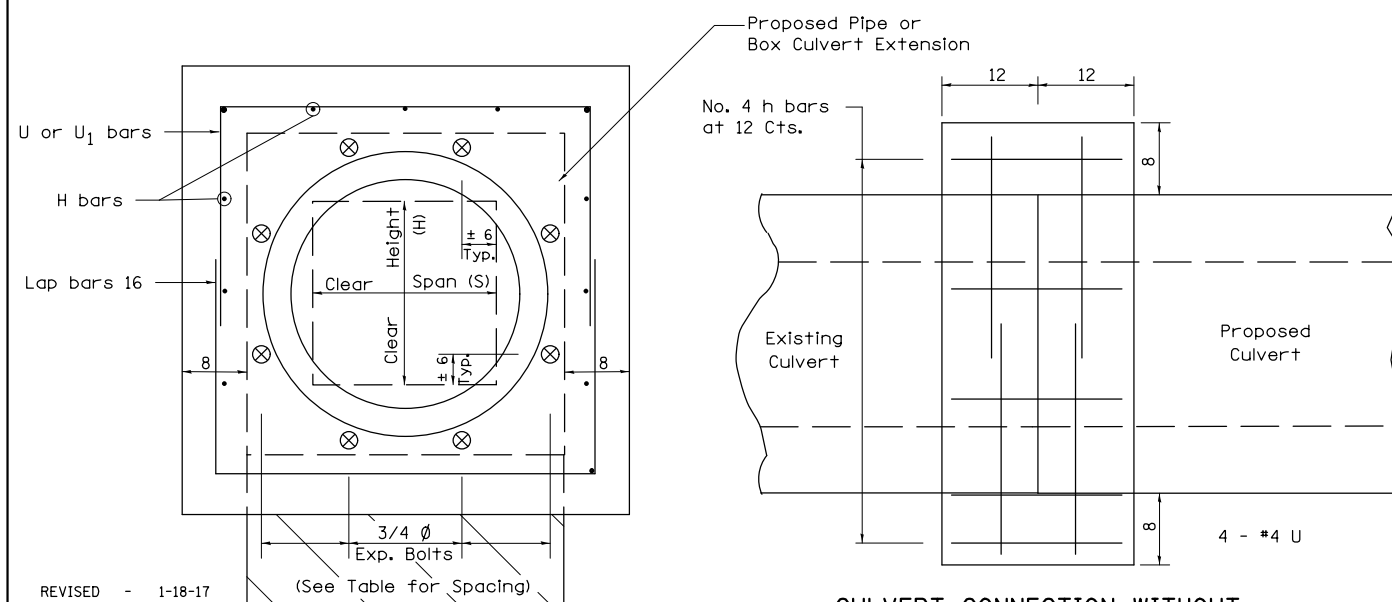
SIDE



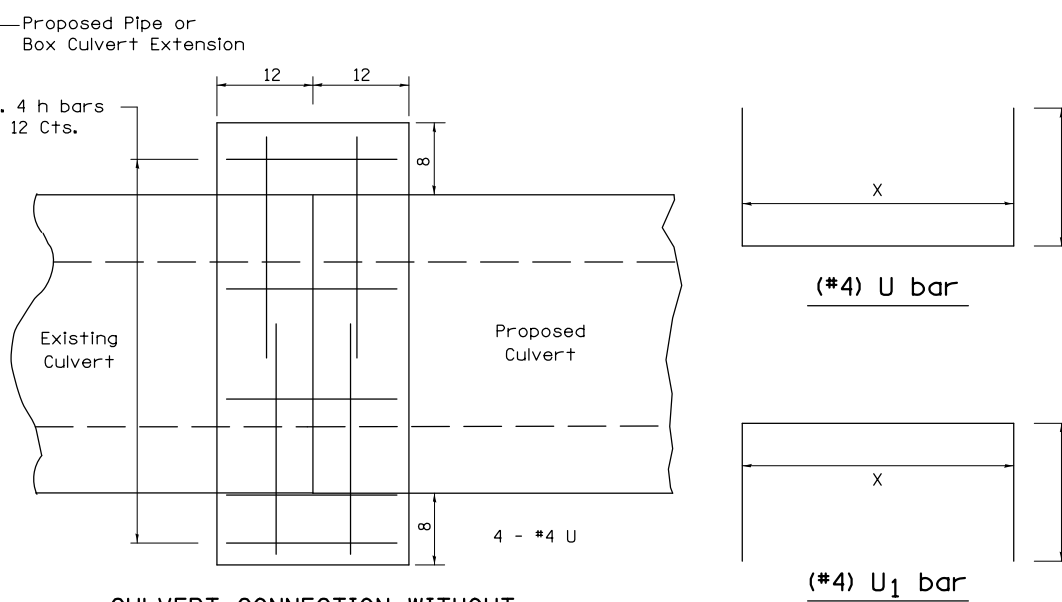
FRONT



SIDE



FRONT



CULVERT CONNECTION WITHOUT EXISTING HEADWALL

PLACEMENT DETAILS FOR EXPANSION BOLTS

H or S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 15'		EXTENSIONS > 15'	
	NUMBER *	SPACING	NUMBER *	SPACING
24	**	**	**	**
30	2	18	2	18
36	2	24	2	24
48	3	18	3	18
60	4	16	3	24
72	5	15	4	20
84	5	18	4	24
96	6	17	5	21
108	6	19	5	24
120	7	18	6	21
132	8	17	6	24
144	8	19	7	22

* Expansion bolts based on non-skewed culverts
** Minimum one expansion bolt at each corner

Example:
6' x 4' box culvert to be extended 18' at one end only.

From table find
6' side requires 4 - 3/4" ϕ expansion bolts at 20" cts.
4' side requires 3 - 3/4" ϕ expansion bolts at 18" cts.

Total Number required
(4+3)2 = 14 - 3/4" ϕ expansion bolts.

- REVISED - 1-18-17
- REVISED - 1-05-16
- REVISED - 6-27-14
- REVISED - 10-17-11

CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS



USER NAME = kjk
ESCA PROJECT NO. 1140.13
PLOT SCALE = 20.000' / 1" / in.
PLOT DATE = 3/14/2018 9:24:02 AM

DESIGNED - KJK
DRAWN - KJK
CHECKED - ELH
DATE - 10/17

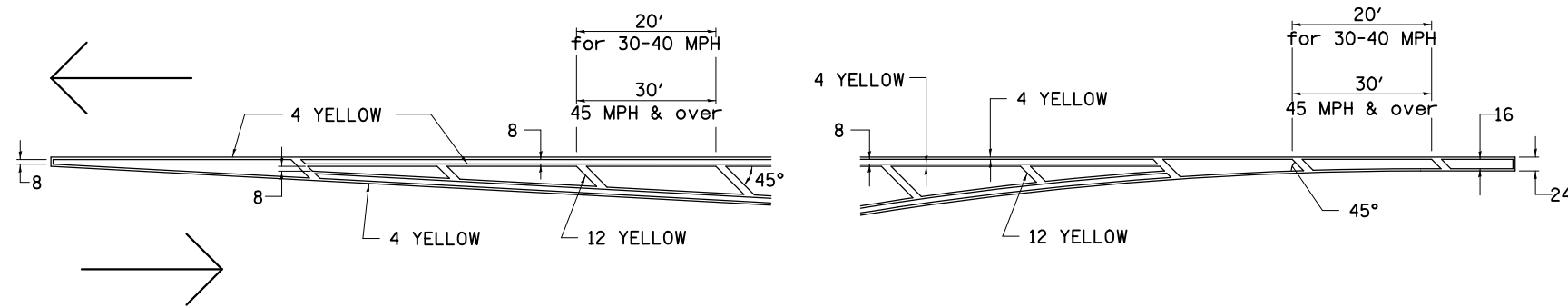
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS
SCALE: NONE SHEET NO. 5 OF 9 SHEETS STA. TO STA.

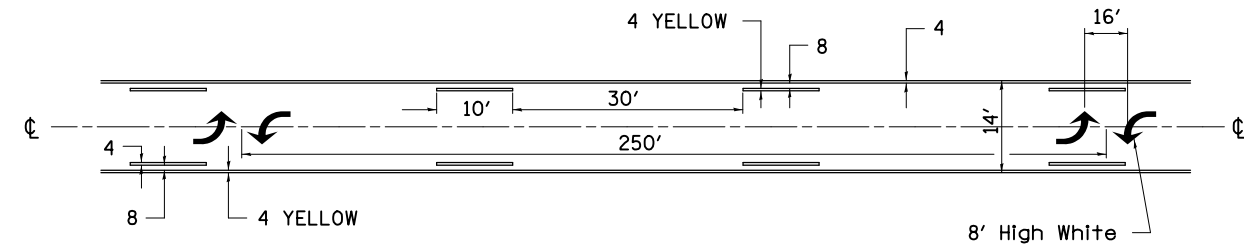
F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
517 (2Y-1)W WINNEBAGO 69 53
CONTRACT NO. 64L90
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

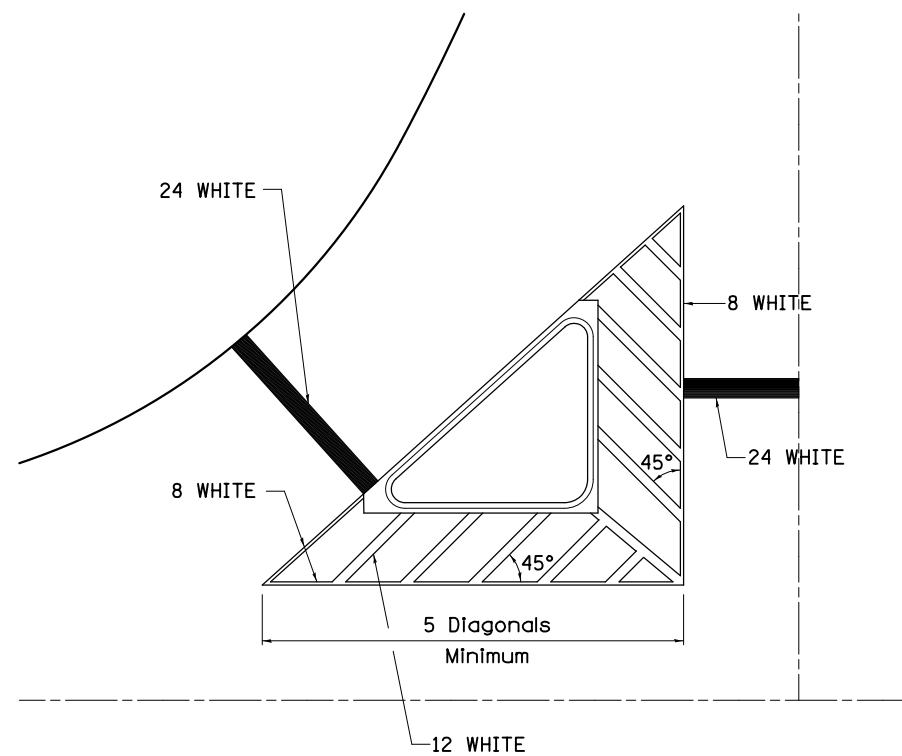


MEDIAN PAVEMENT MARKING



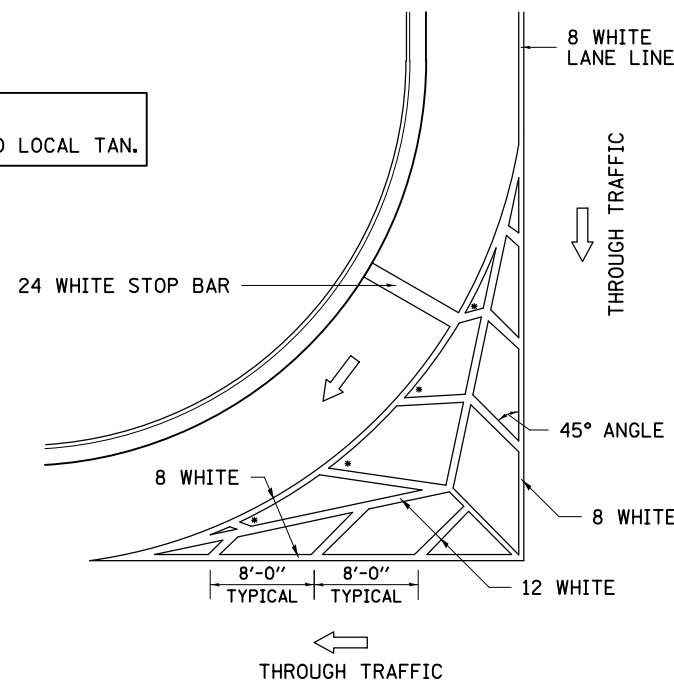
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



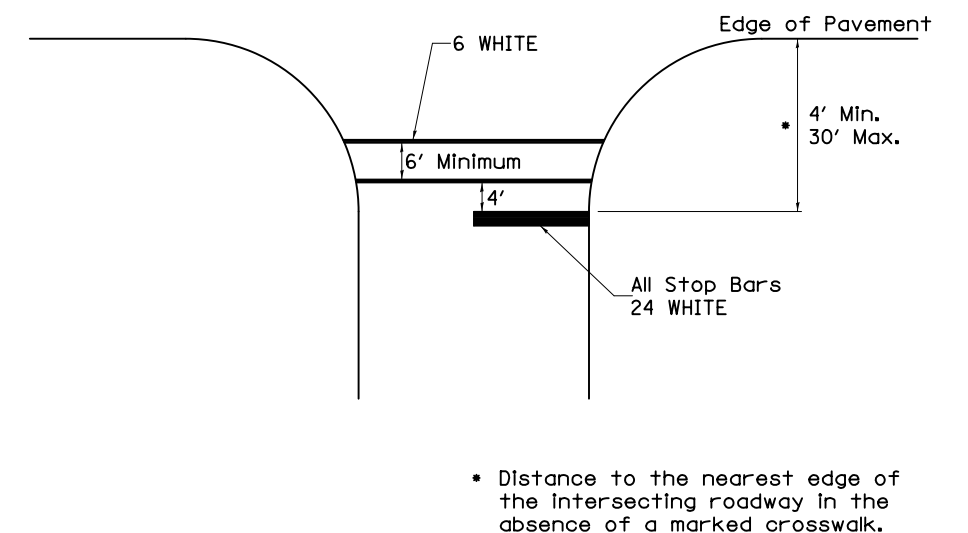
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



REVISED - 6-27-14
REVISED - 3-05-12



USER NAME = kjk
ESCA PROJECT NO. 1140.13
PLOT SCALE = 20.000' / in.
PLOT DATE = 3/14/2018 9:24:04 AM

DESIGNED - KJK
DRAWN - KJK
CHECKED - ELH
DATE - 07/17

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3

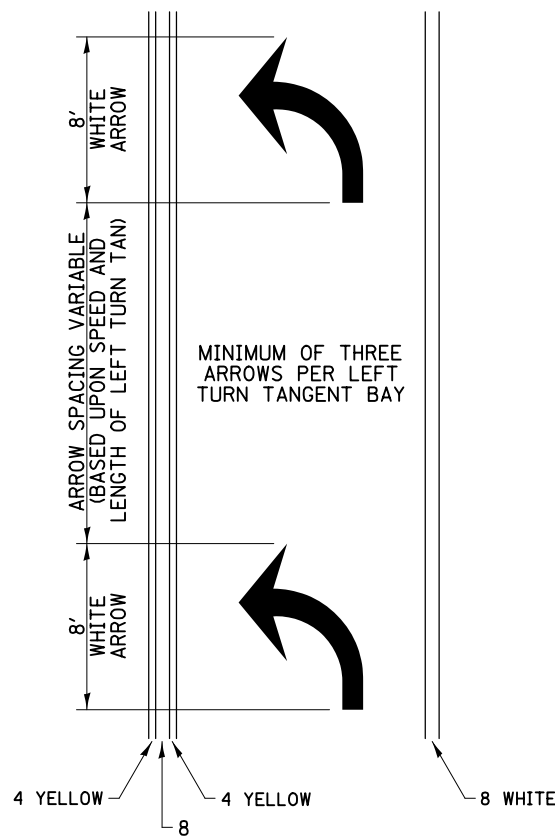
41.1

REGION 2 / DISTRICT 2 STANDARDS
SCALE: NONE SHEET NO. 6 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	54
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

TYPICAL PAVEMENT MARKINGS

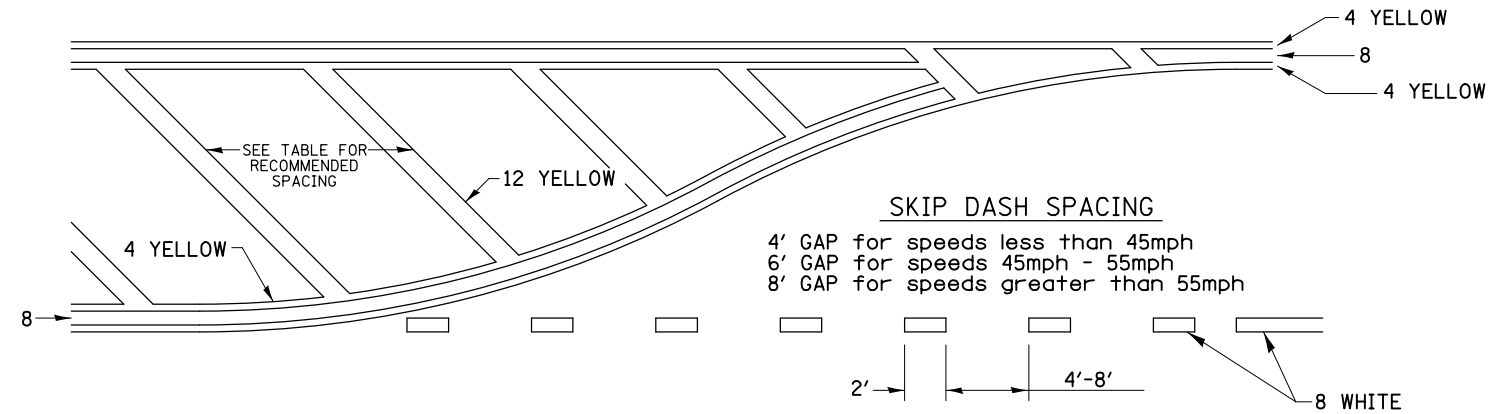
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

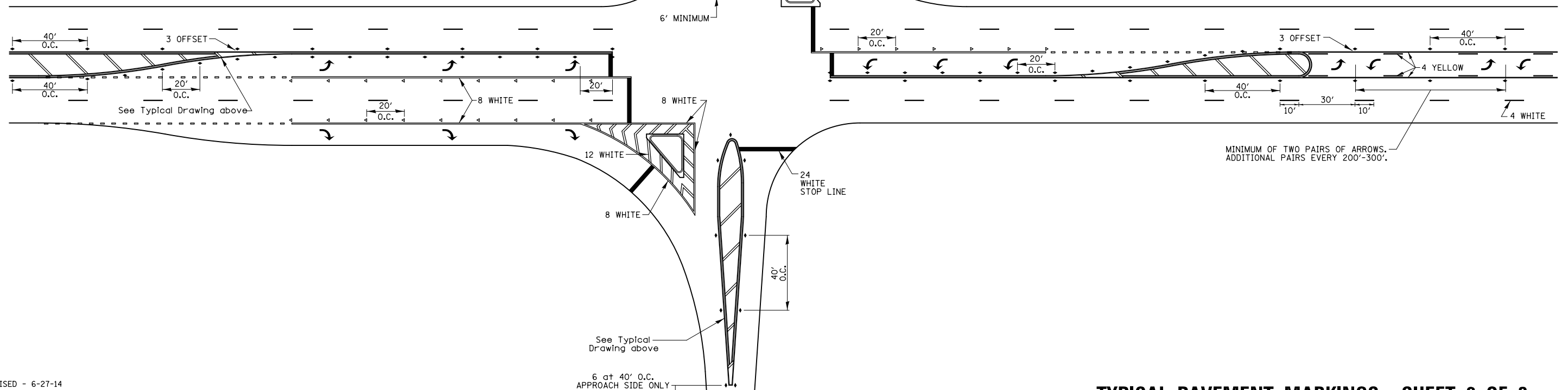
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



REVISED - 6-27-14
REVISED - 3-05-12



USER NAME = kjk
ESCA PROJECT NO. 1140.13
PLOT SCALE = 20.000' / in.
PLOT DATE = 3/14/2018 9:24:04 AM

DESIGNED - KJK
DRAWN - KJK
CHECKED - ELH
DATE - 07/17

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3

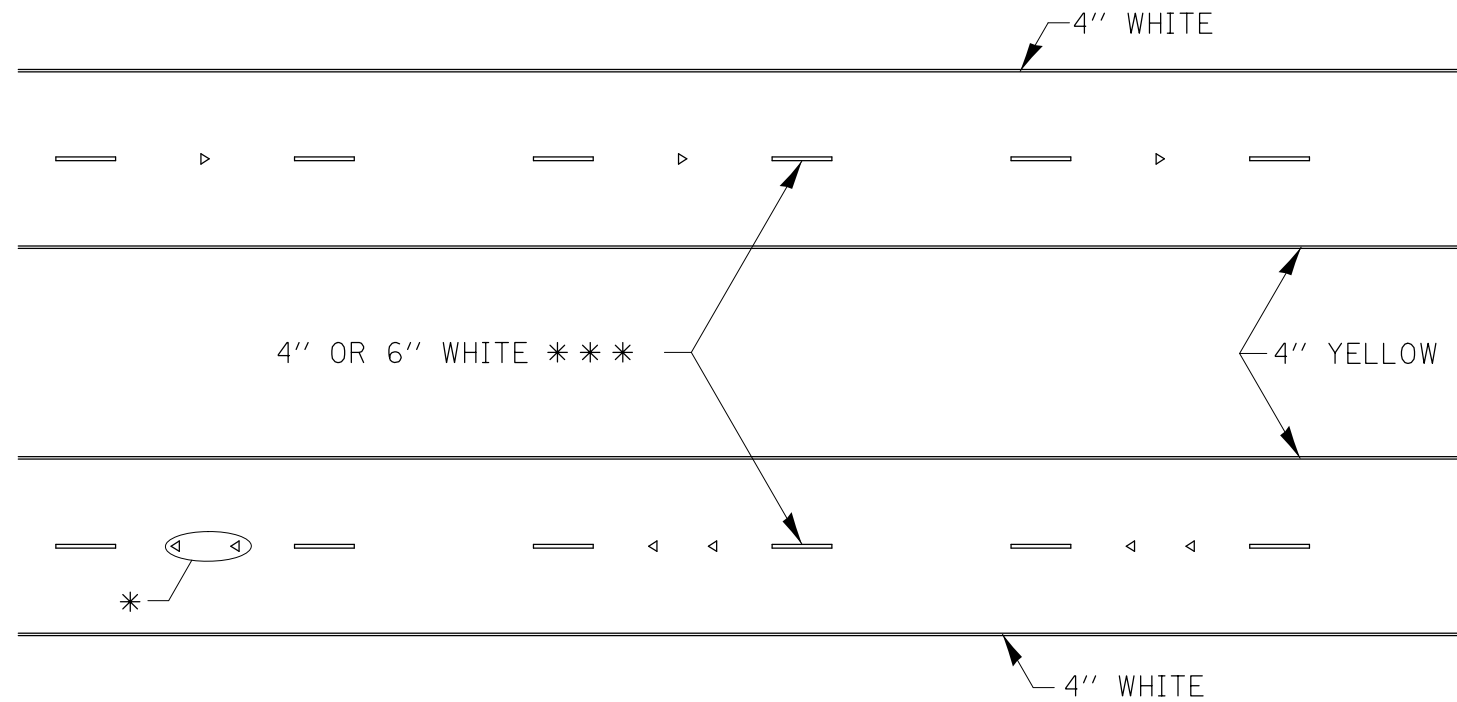
41.1

REGION 2 / DISTRICT 2 STANDARDS

SCALE: NONE SHEET NO. 7 OF 9 SHEETS STA. TO STA.

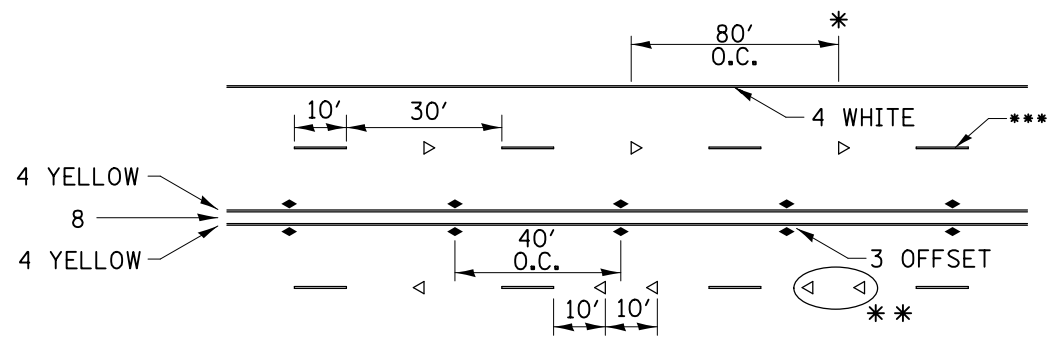
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	55
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

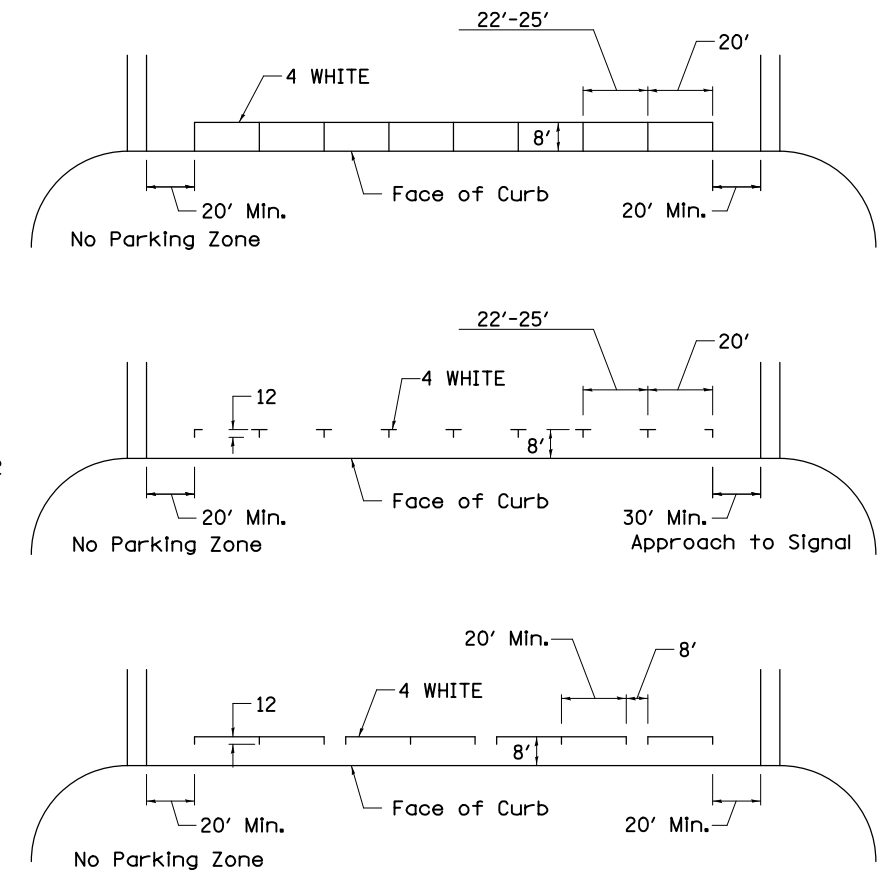
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

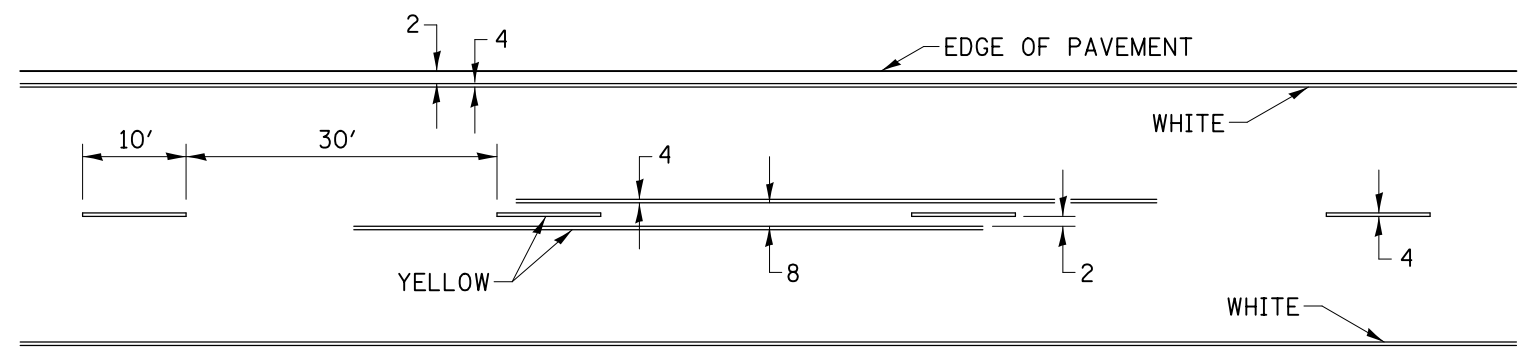
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3

41.1

REVISED - 6-27-14
REVISED - 3-05-12



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
PLOT SCALE = 20.000' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018 9:24:04 AM	DATE - 07/17	REVISED -

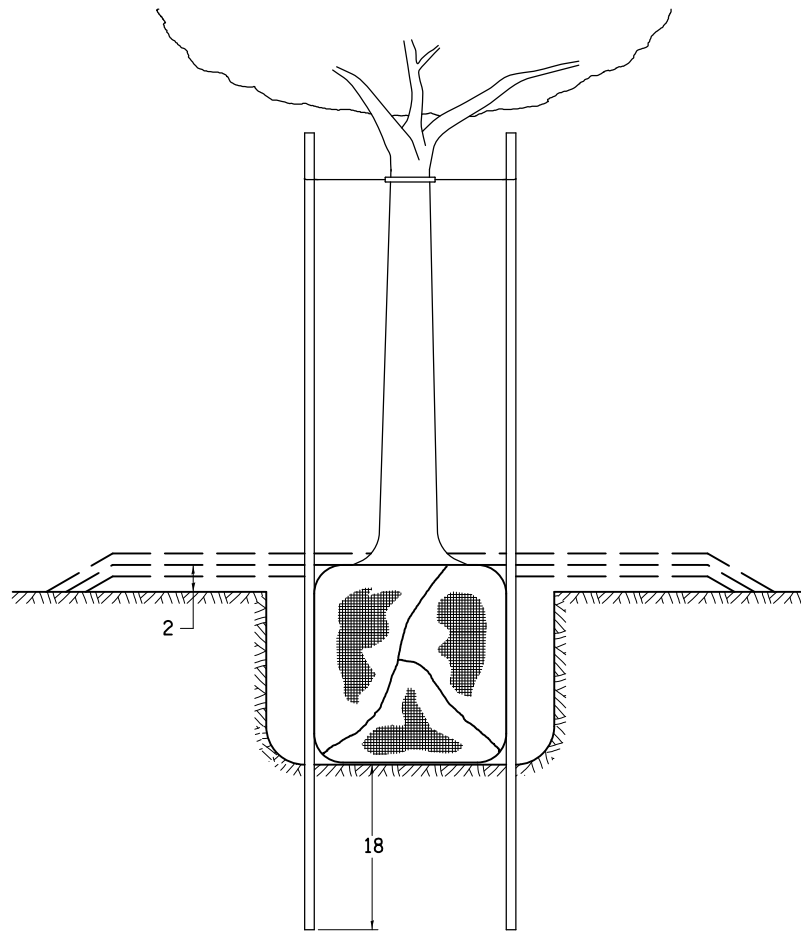
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS

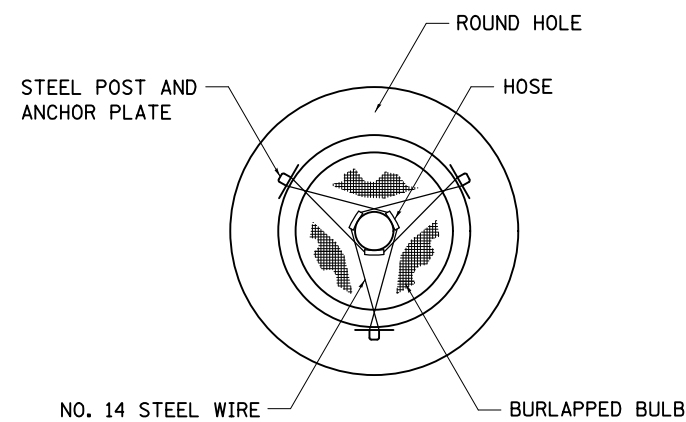
SCALE: NONE SHEET NO. 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	56
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L90	

DETAILS OF PLANTING AND BRACING TREES

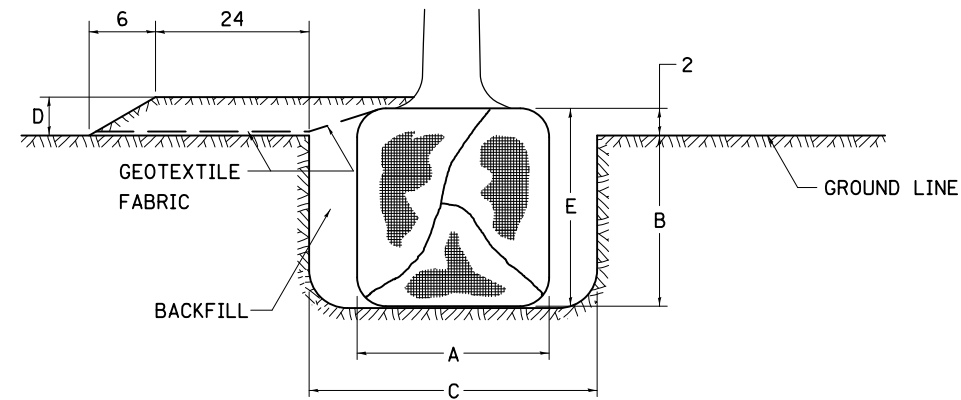


TREES SMALLER THAN 4 1/2 IN DIAMETER

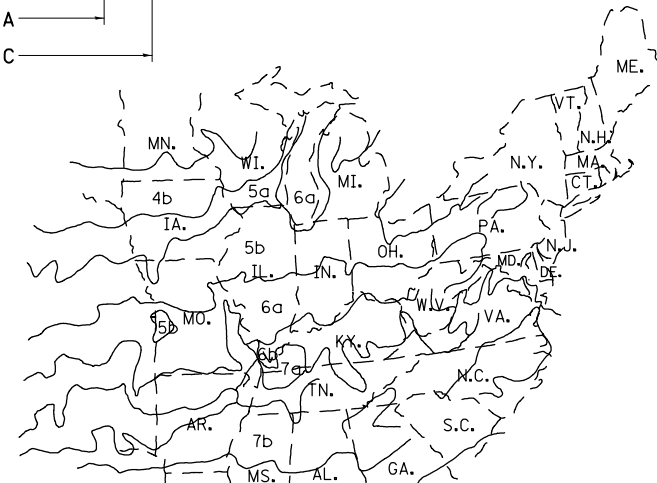
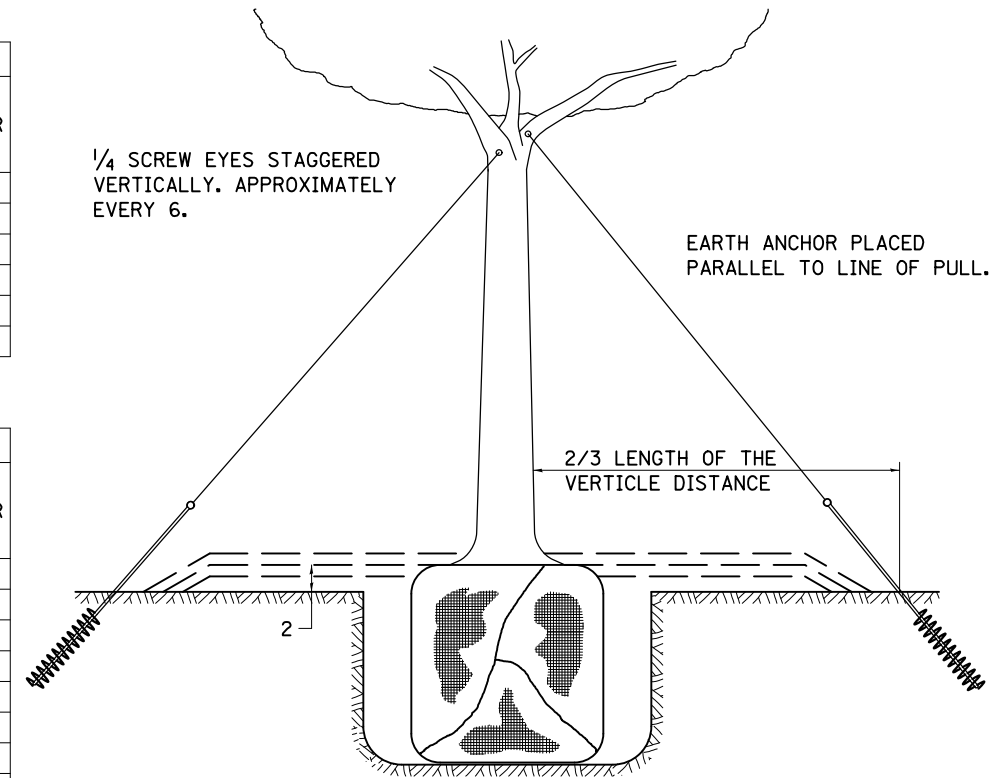


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

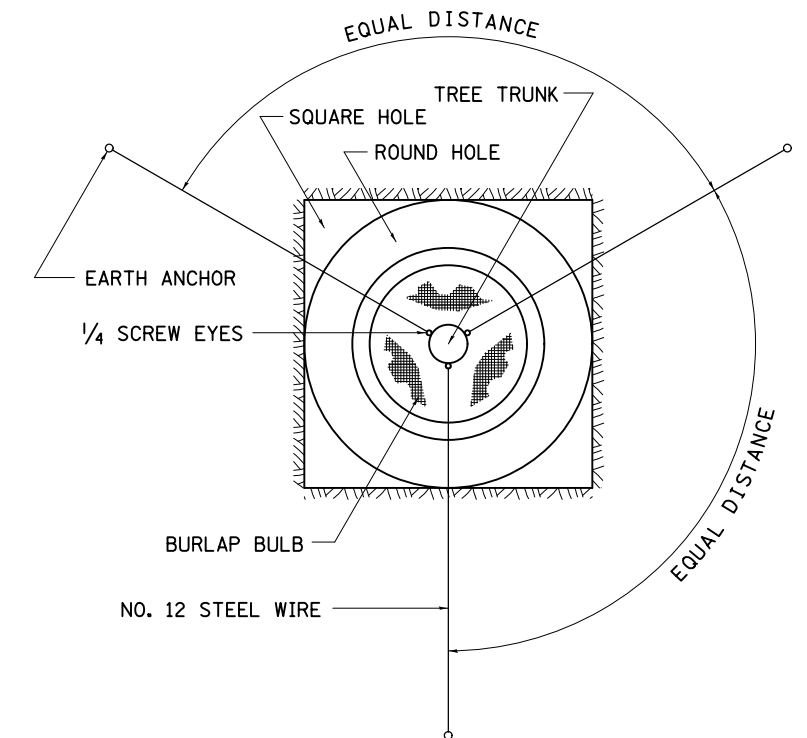
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96
3 1/2-4 BB	36	20	60	4	22	0.96
4-4 1/2 BB	40	22	72	4	24	1.16
4 1/2-5 BB	44	24	72	4	26	1.16
5-5 1/2 BB	48	27	84	4	29	1.38



TREES OVER 4 1/2 IN DIAMETER



PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-18-11

DETAILS OF PLANTING AND BRACING TREES

92.1



USER NAME = kjk
ESCA PROJECT NO. 1140.13
PLOT SCALE = 20.000' / in.
PLOT DATE = 3/14/2018

DESIGNED - KJK
DRAWN - KJK
CHECKED - ELH
DATE - 07/17

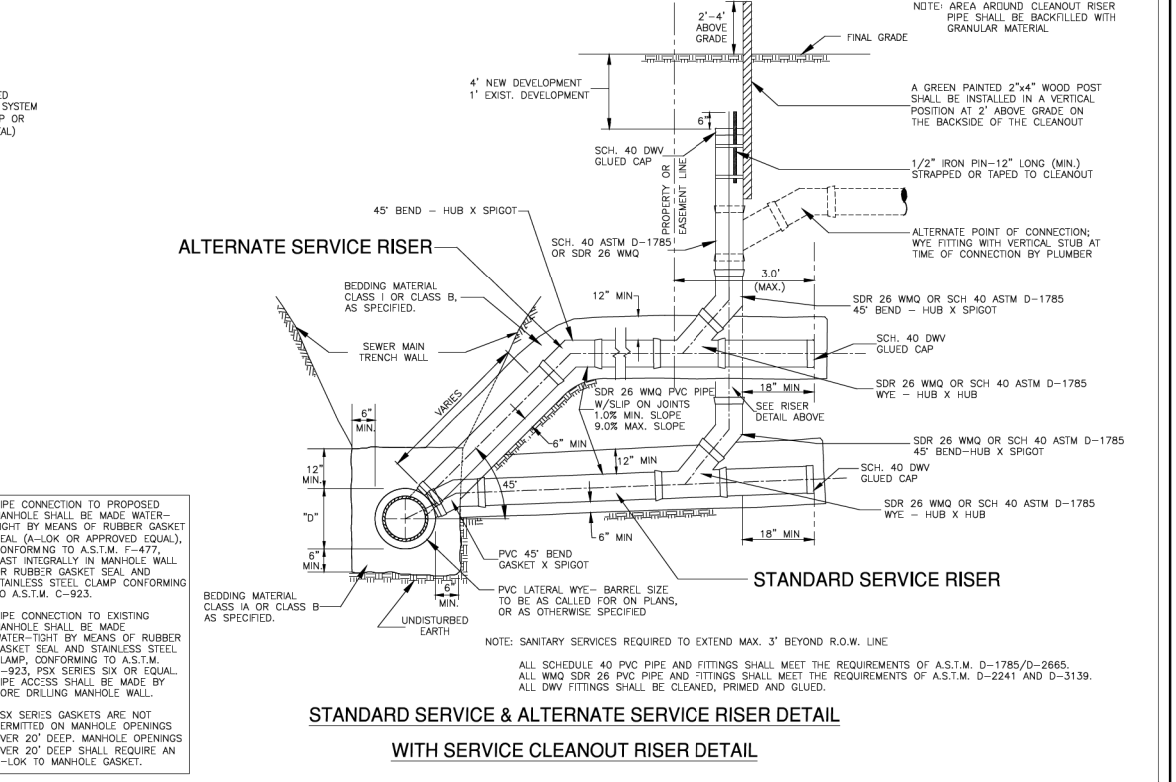
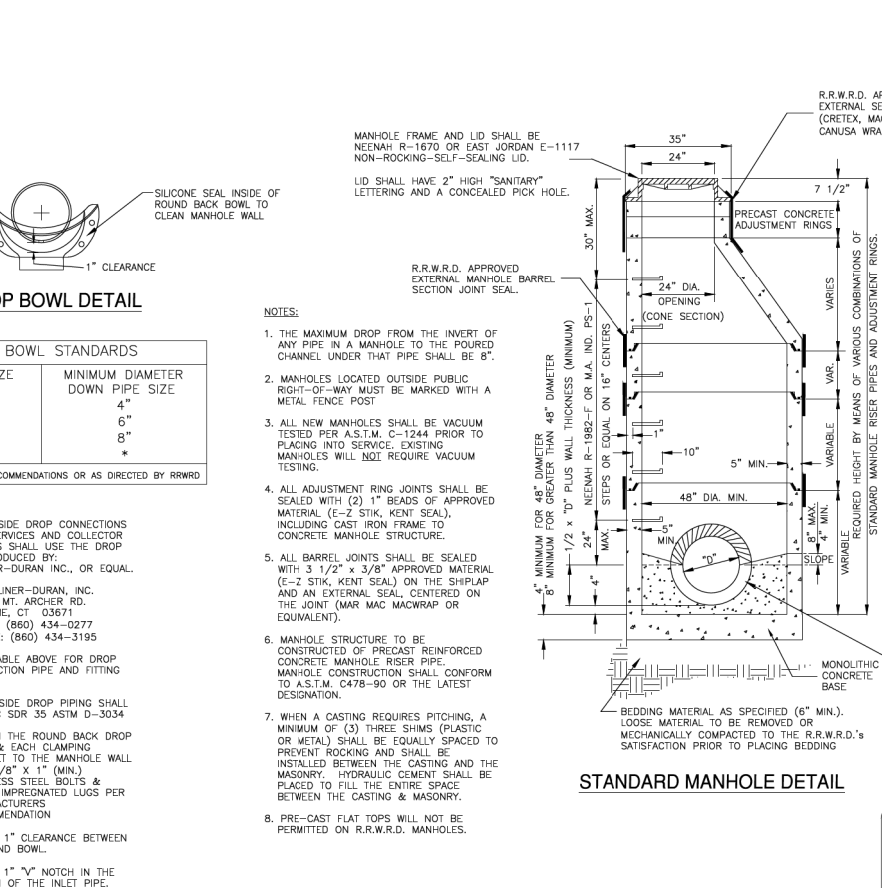
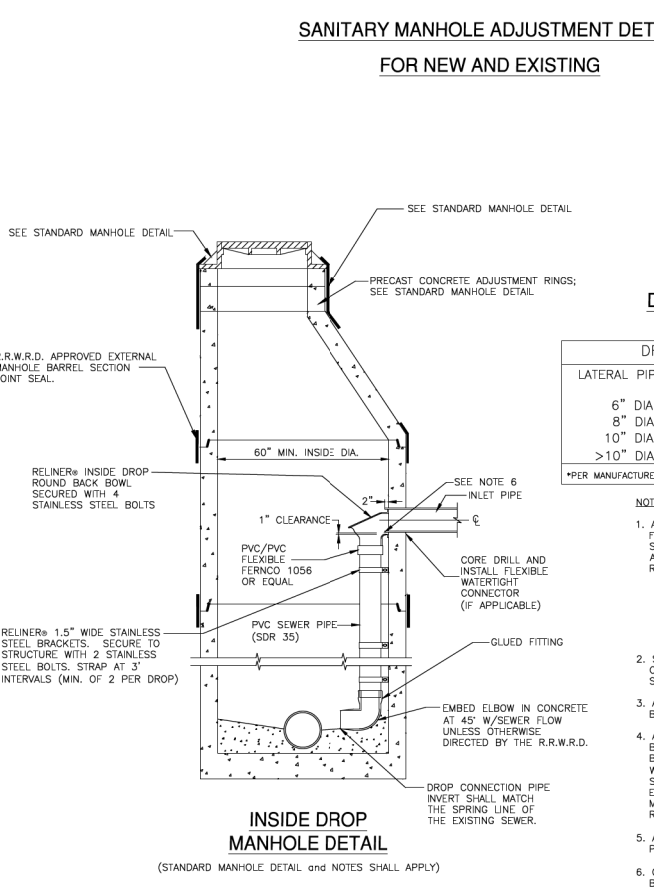
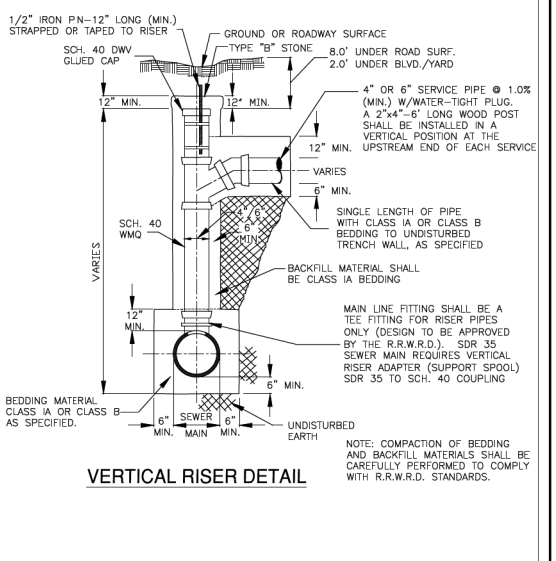
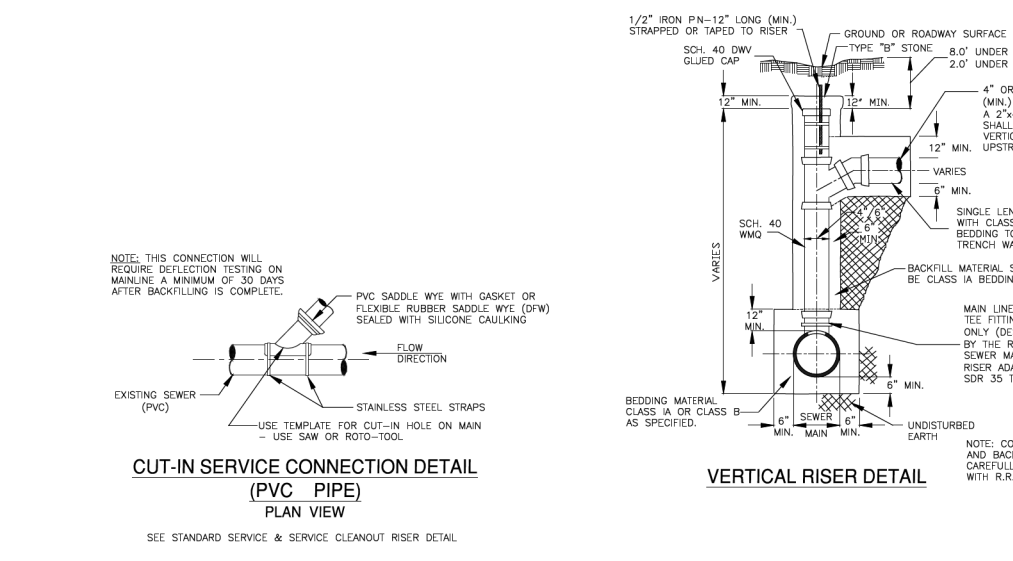
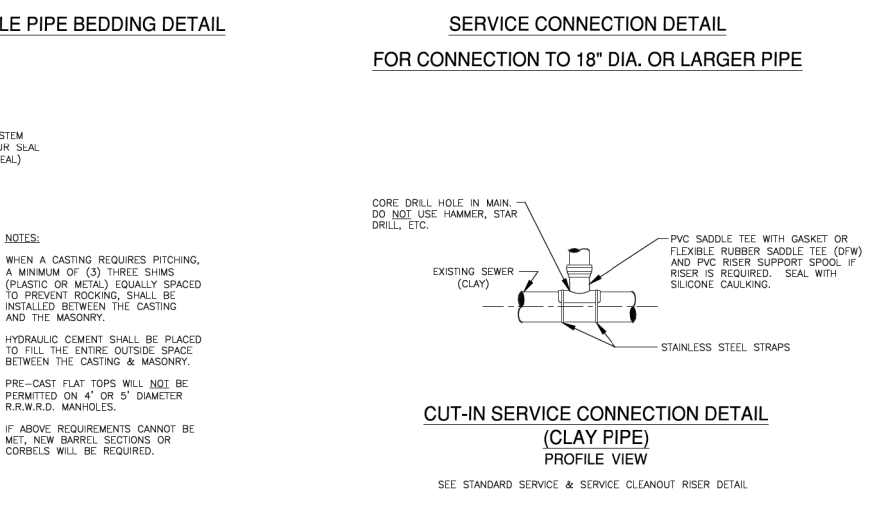
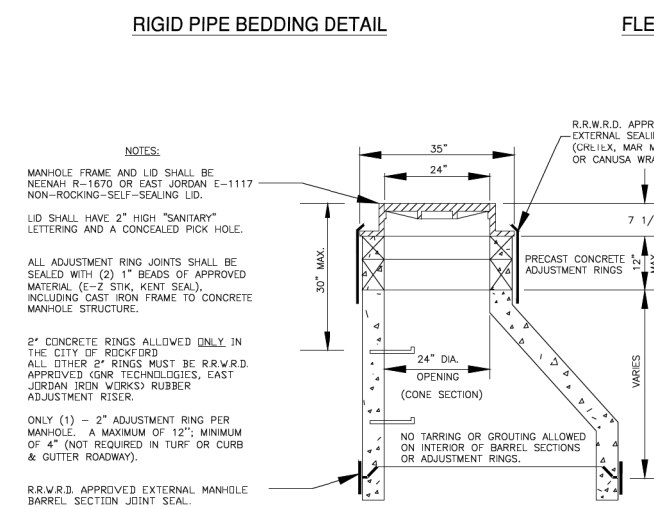
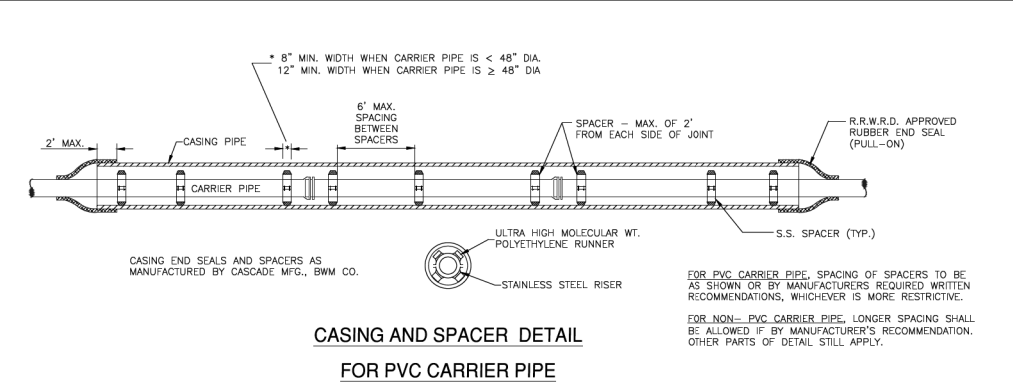
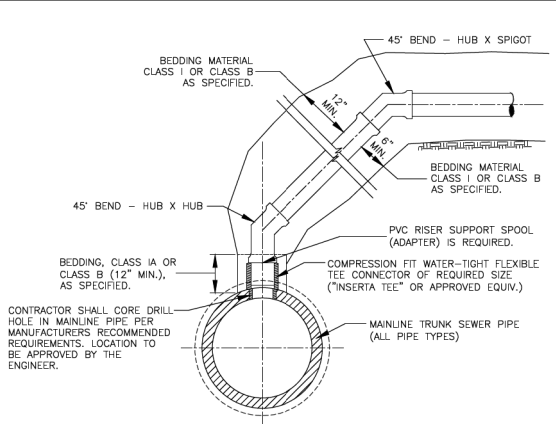
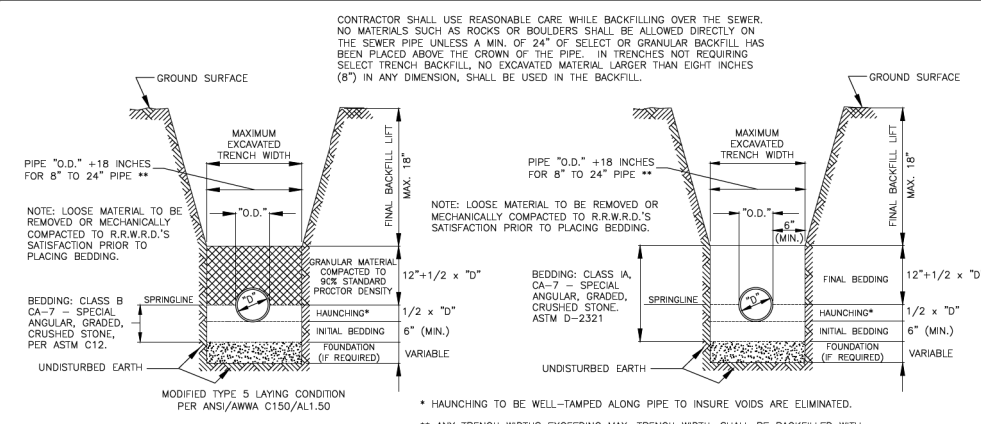
REVISED -
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: NONE SHEET NO. 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	57
CONTRACT NO. 64L90				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



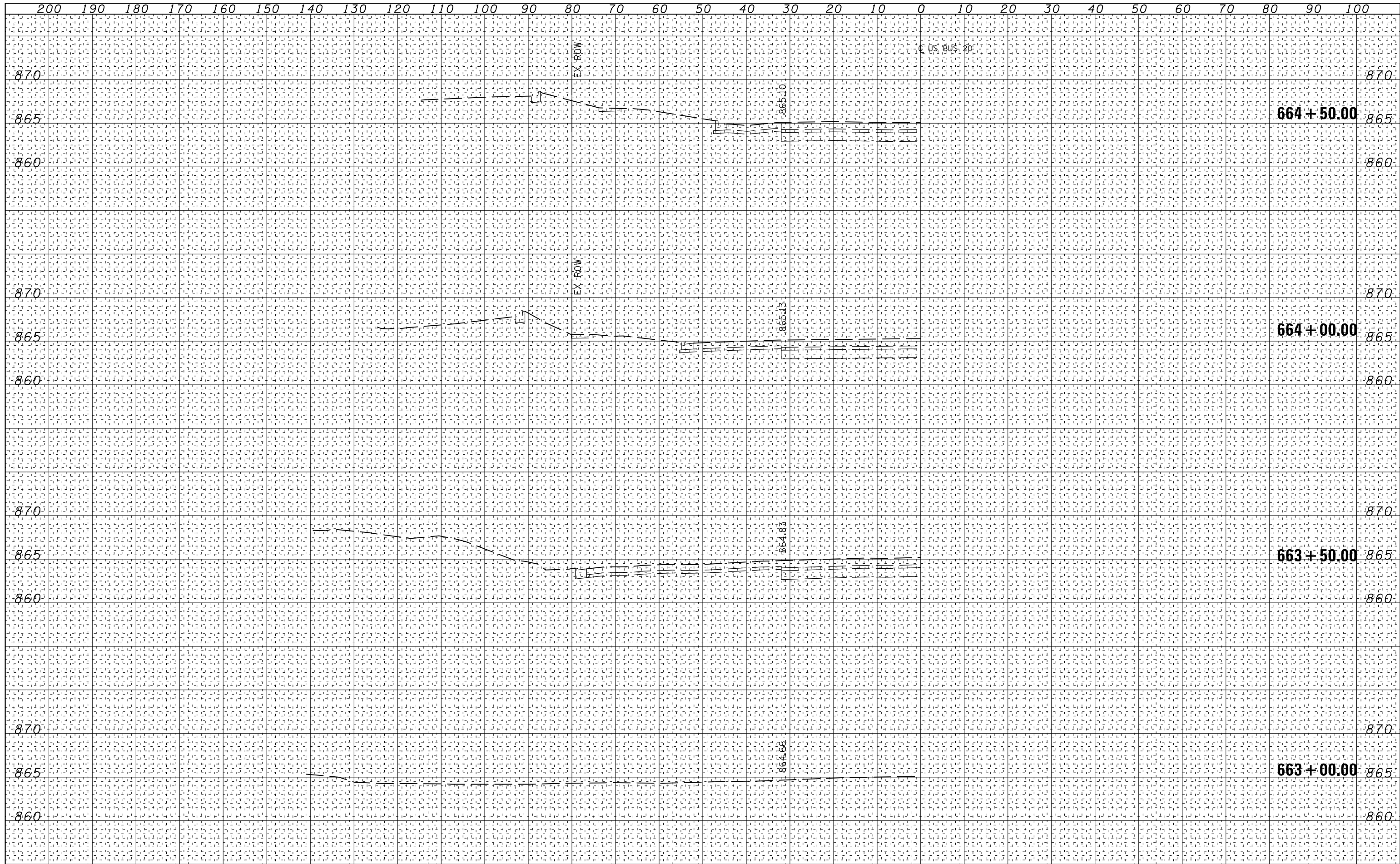
ROCK RIVER WATER RECLAMATION DISTRICT

STANDARD DETAIL SHEET

3501 KISHWAUKEE ST., P.O. BOX 7480, ROCKFORD, ILLINOIS 61109-7480 - PH. (815) 387-7660/FAX (815) 387-7665

REV. 08/11/2015

	USER NAME = kjk	DESIGNED - KJK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROCK RIVER WATER RECLAMATION DISTRICT STANDARD DETAIL SHEET	F.A.P. RTE. = 517	SECTION = (2Y-1)W	COUNTY = WINNEBAGO	TOTAL SHEETS = 69	SHEET NO. = 58
	ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CONTRACT NO. 64L90
	PLOT SCALE = 20.000' / 1" =	CHECKED - ELH	REVISED -							
	PLOT DATE = 3/14/2018	DATE - 03/18	REVISED -							



FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
	TEMPLATE AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
	TEMPLATE AREAS CHECKED	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE: 3/14/2018	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

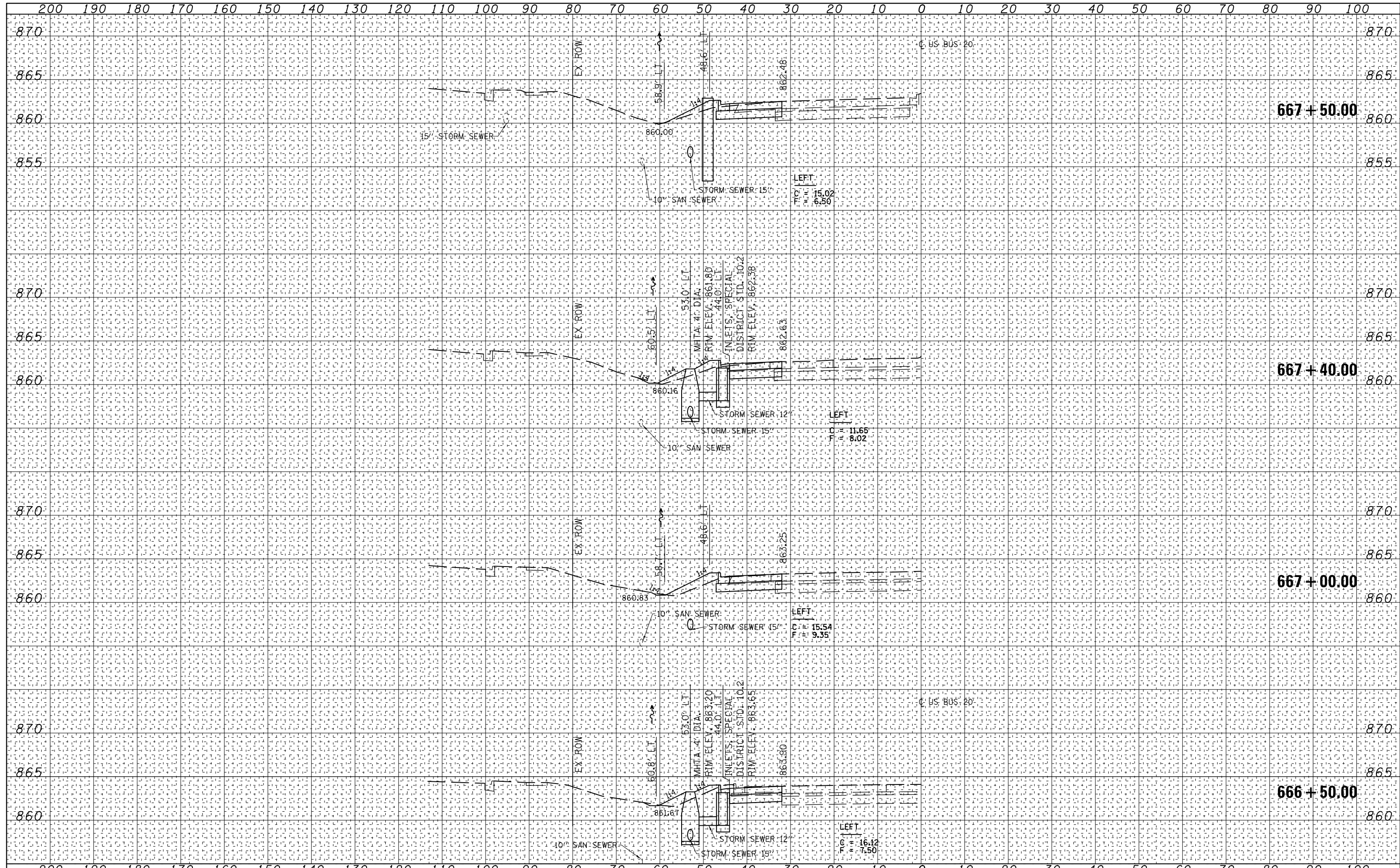
US BUS 20 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 2 OF 11 SHEETS STA. 665+00.00 TO STA. 666+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	60
			CONTRACT NO. 64L90	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

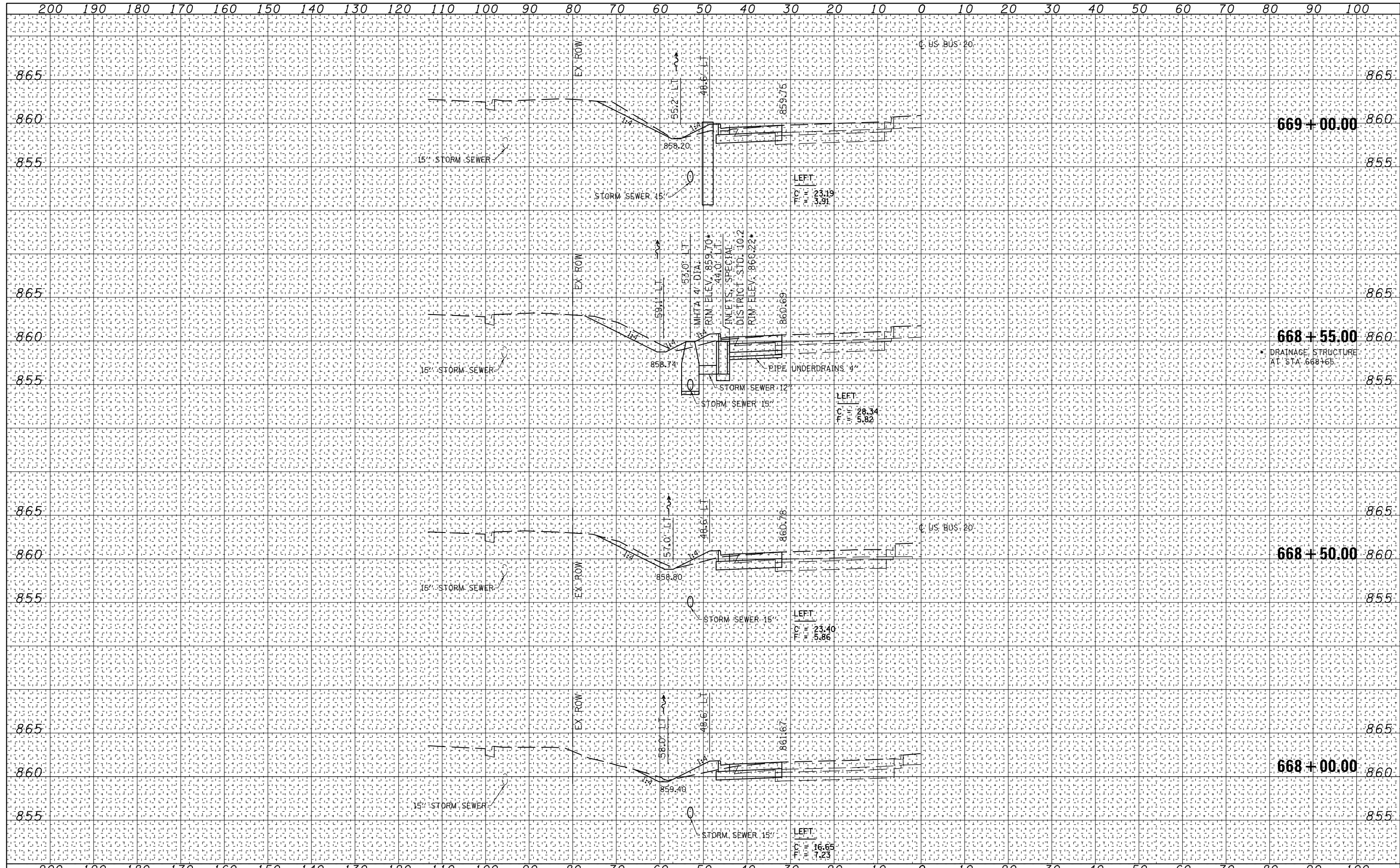
US BUS 20 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 3 OF 11 SHEETS STA. 666+50.00 TO STA. 667+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	61
			CONTRACT NO. 64L90	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018	DATE - 03/18	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

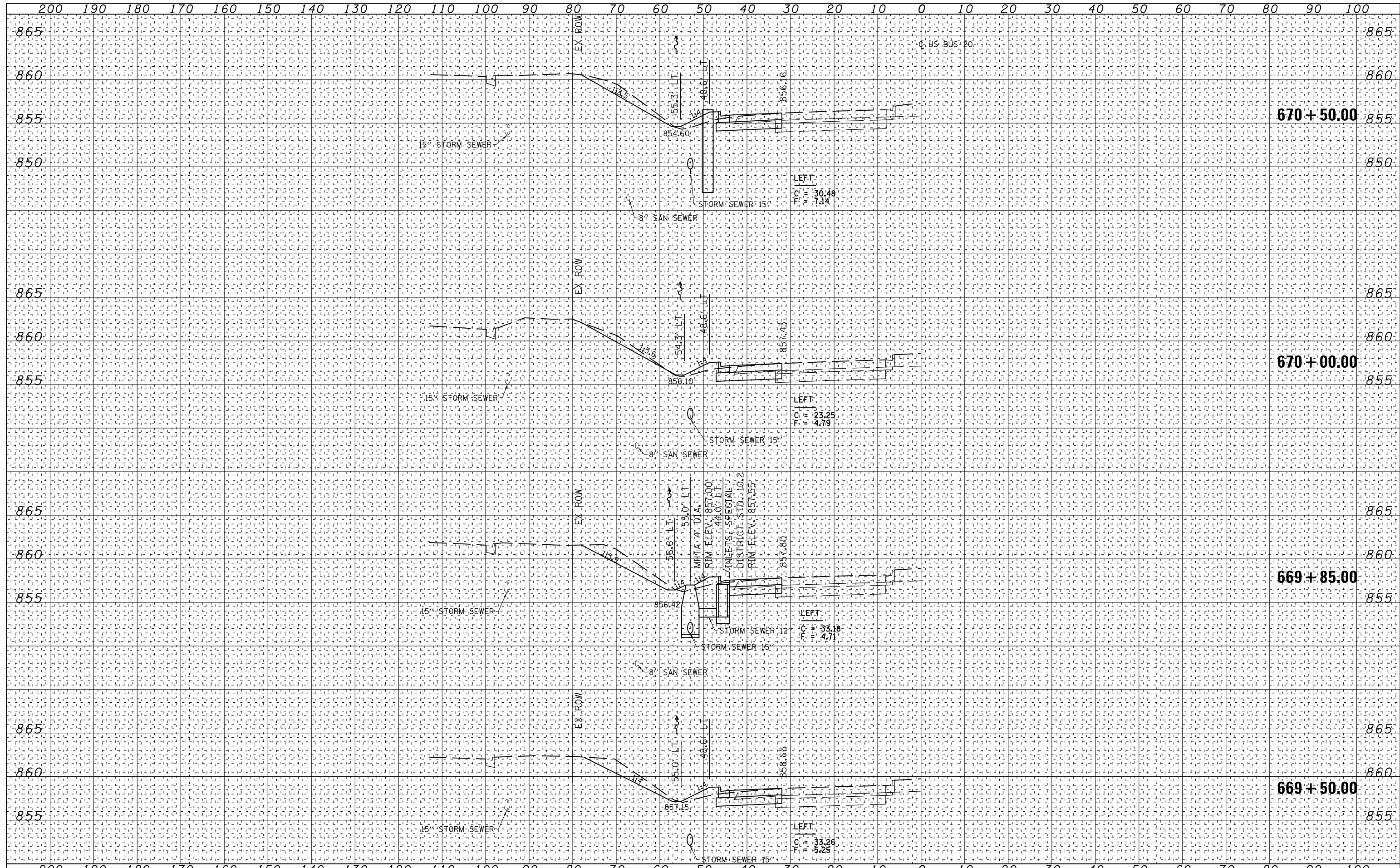
US BUS 20 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 4 OF 11 SHEETS STA. 668+00.00 TO STA. 669+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	62
			CONTRACT NO.	64L90
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
TEMPLATE AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
TEMPLATE AREAS CHECKED	



USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE: 3/14/2018	DATE - 12/17	REVISED -

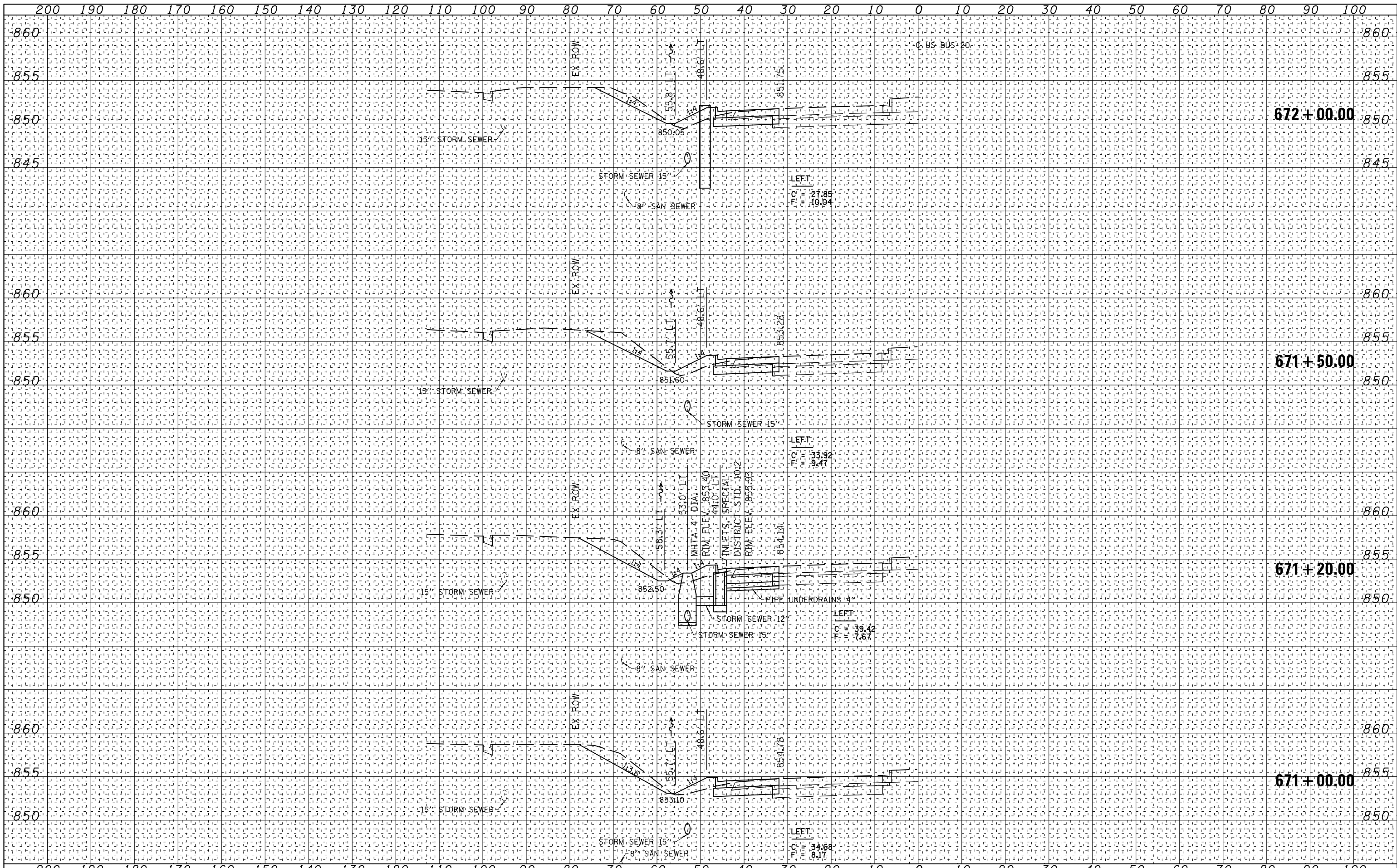
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US BUS 20 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 5 OF 11 SHEETS STA. 669+50.00 TO STA. 670+50.00

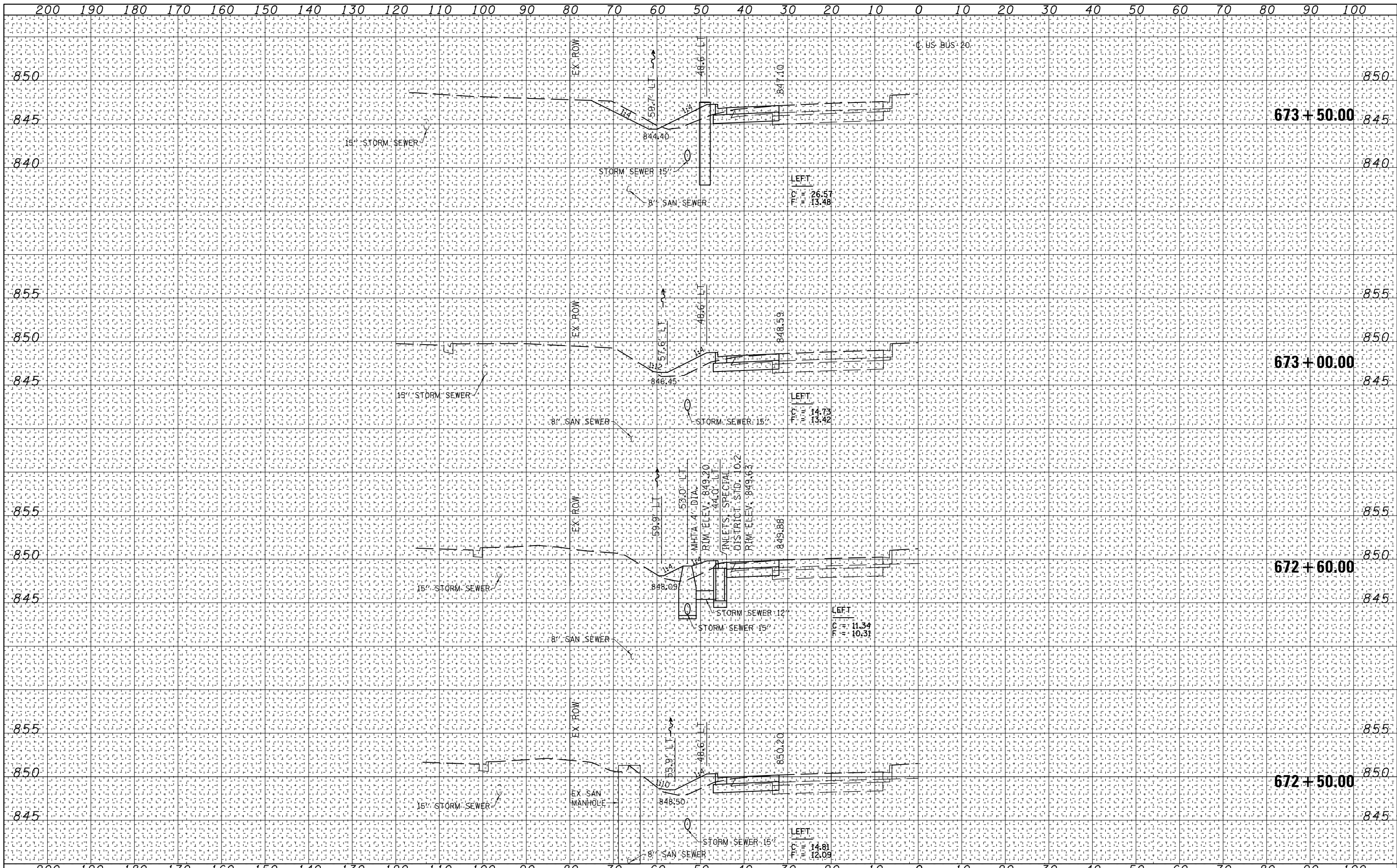
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	63
			CONTRACT NO. 64L90	

ILLINOIS FED. AID PROJECT



DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

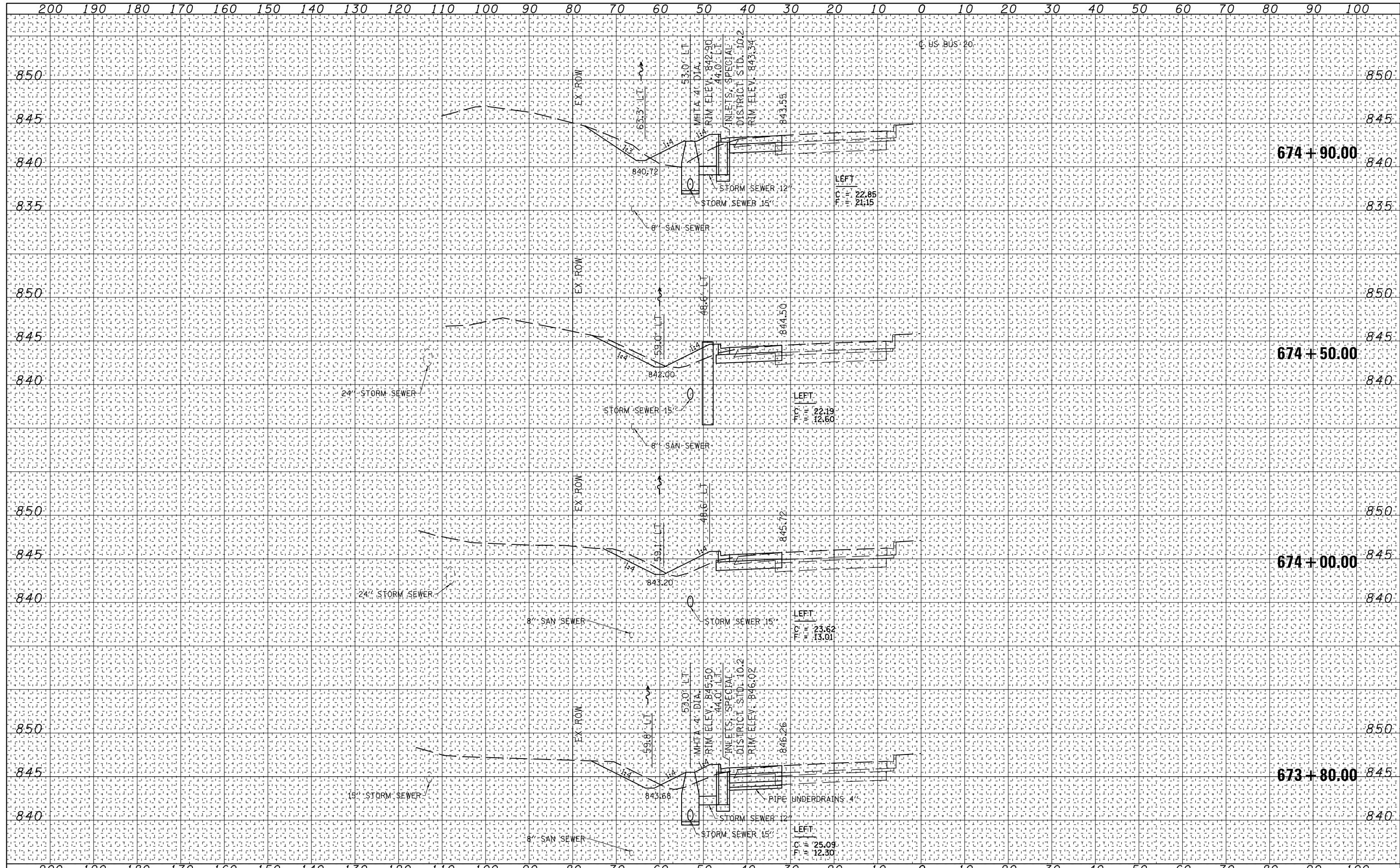


DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



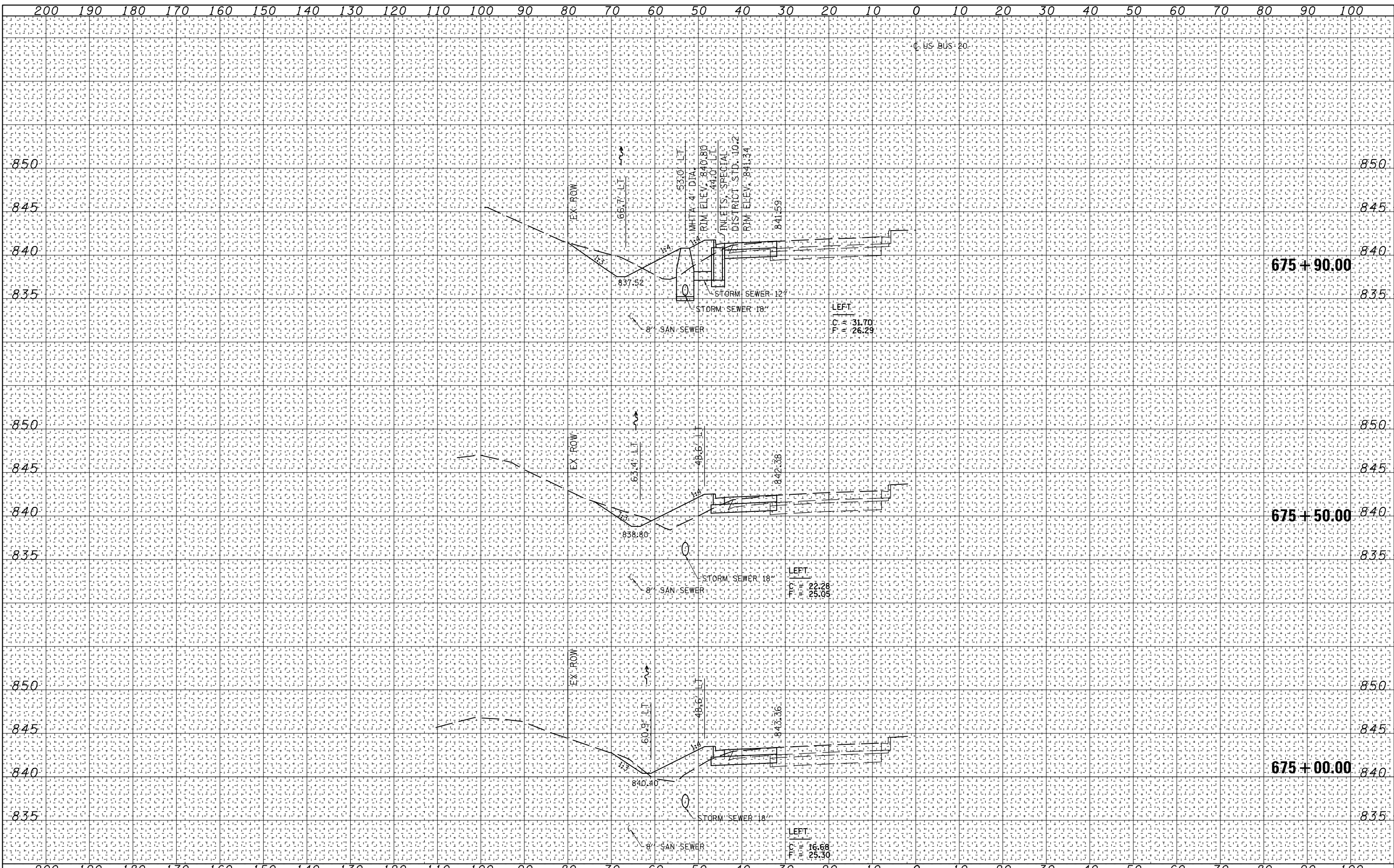
USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US BUS 20 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 8 OF 11 SHEETS STA. 673+80.00 TO STA. 674+90.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	66
			CONTRACT NO. 64L90	
ILLINOIS FED. AID PROJECT				

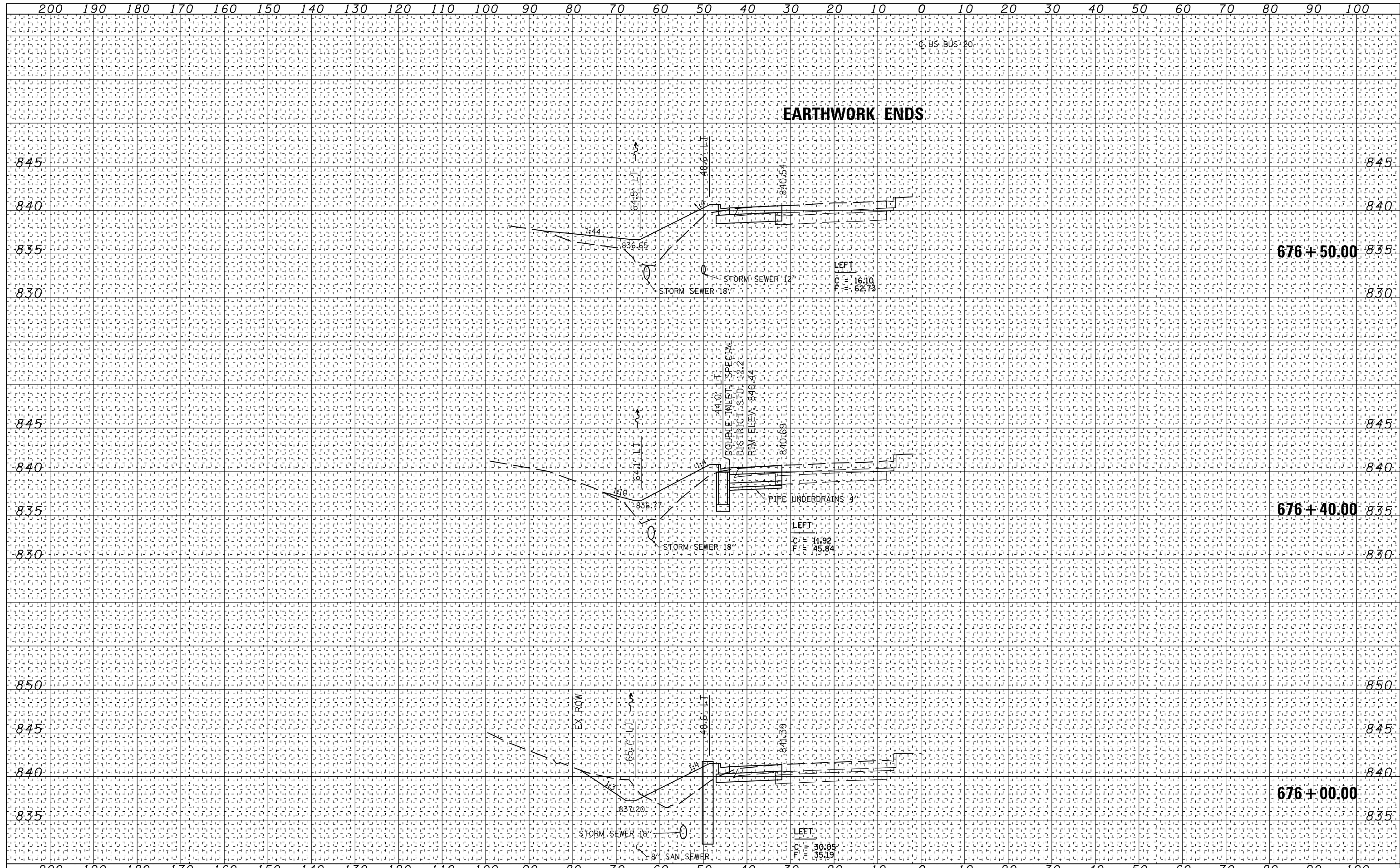


DATE	BY

DATE	BY

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	



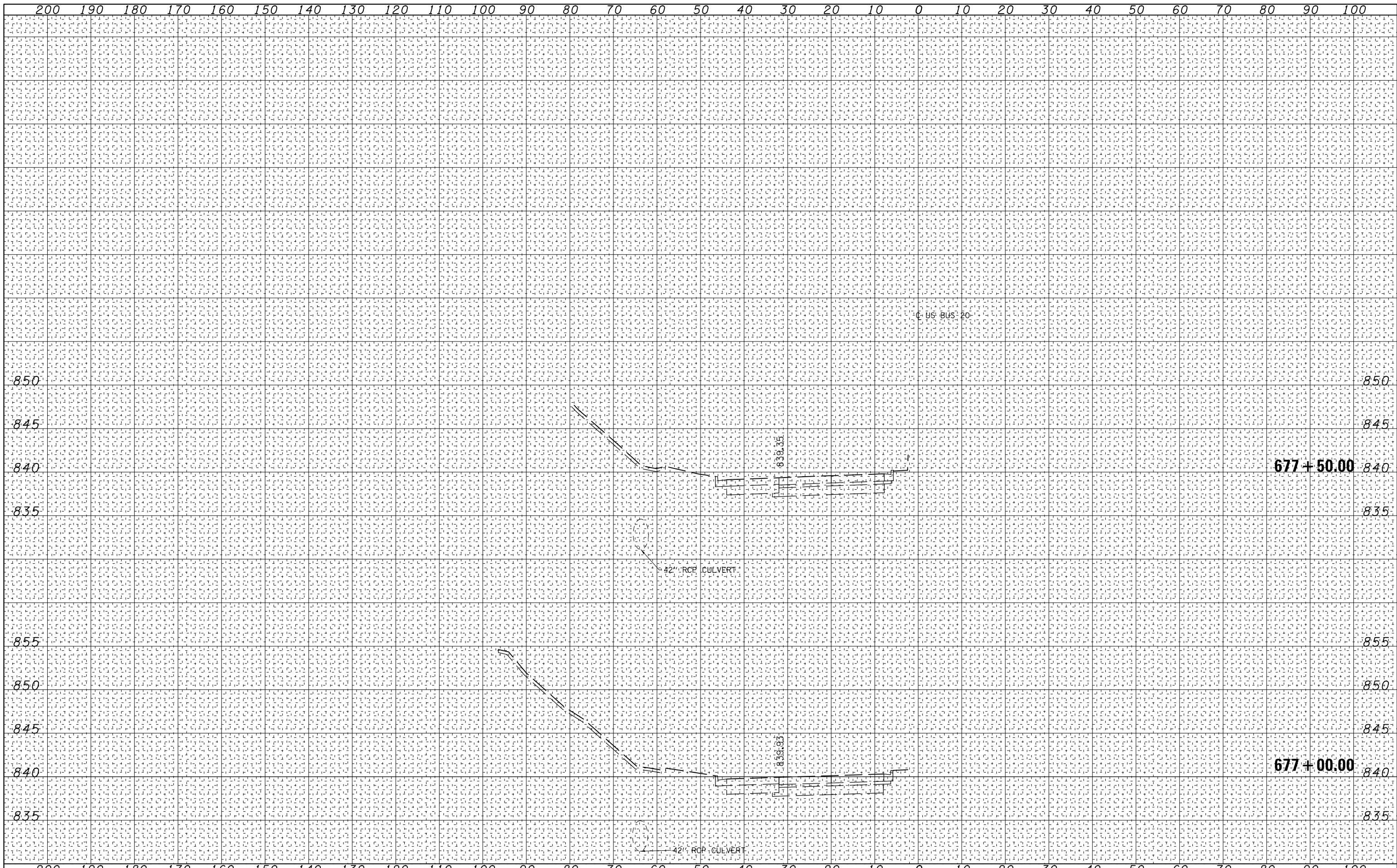
USER NAME = kjk	DESIGNED - KJK	REVISED -
ESCA PROJECT NO. 1140.13	DRAWN - KJK	REVISED -
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 3/14/2018	DATE - 12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US BUS 20 CROSS SECTIONS

SCALE: AS SHOWN SHEET NO. 10 OF 11 SHEETS STA. 676+00.00 TO STA. 676+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517	(2Y-1)W	WINNEBAGO	69	68
			CONTRACT NO. 64L90	
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	