INDEX OF SHEETS
SEE SHEET 2 FOR INDEX OF SHEETS

HIGHWAY STANDARDS
SEE SHEET 2 FOR LIST OF HIGHWAY STANDARDS

DISTRICT 1 DETAILS
SEE SHEET 2 FOR LIST OF DISTRICT 1 DETAILS

03-06-2020 LETTING ITEM 170

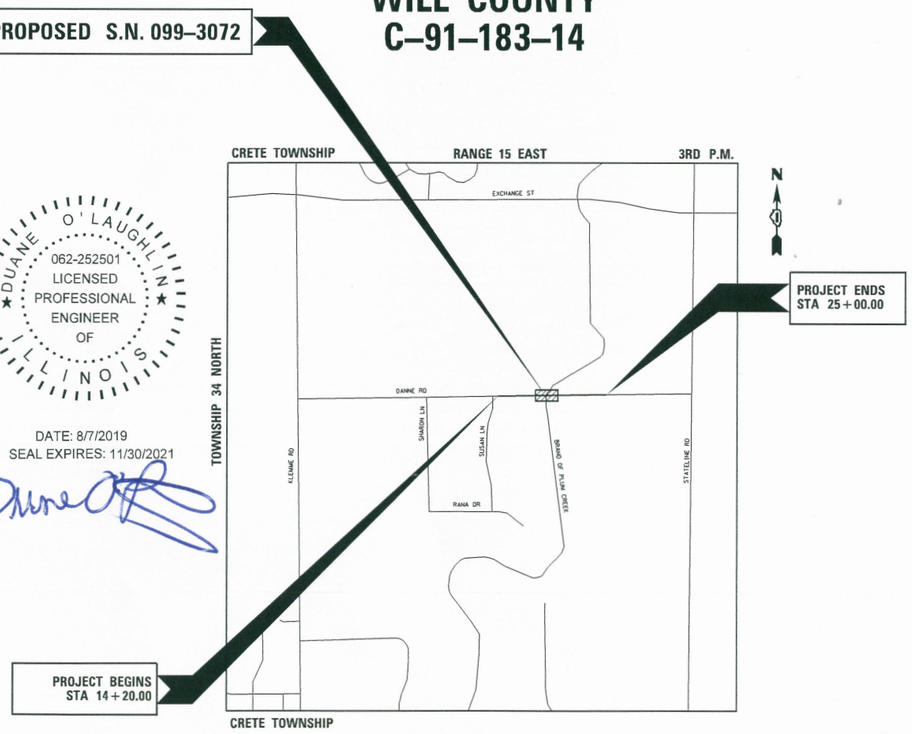
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	61F15	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

TR 221 (DANNE ROAD)
OVER BRANCH OF PLUM CREEK
BRIDGE REPLACEMENT, ROADWAY IMPROVEMENTS, AND RECONSTRUCTION
SECTION 13–02113–01–BR
PROJECT NO. H4RT(589)
CRETE TOWNSHIP
WILL COUNTY
C–91–183–14

LOCATION OF SECTION INDICATED THUS: –■–



LOCATION MAP
(NOT TO SCALE)

PROJECT LENGTH

NET AND GROSS LENGTH = 1,080 FT. = 0.20 MILES

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 :: (773) 775-4009

DANNE ROAD
ADT (2040) = 700
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
DESIGN DESIGNATION – LOCAL ROAD

STATE OF ILLINOIS
BRETT W. SAUTER
081-006844
LICENSED STRUCTURAL ENGINEER

DATE: 8/7/2019
SEAL EXPIRES: 11/30/2020

STATE OF ILLINOIS
DUANE O'LAUGHLIN
062-252501
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

DATE: 8/7/2019
SEAL EXPIRES: 11/30/2021

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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
FOR SIGN POSTS IN INDIANA, CALL INDIANA 811
1–800–382–5544

CONTRACT NO. 61F15

CONSULTANT ENGINEER: Duane O'Laughlin, P.E. CIORBA GROUP, INC
PROGRAM AND OFFICE ENGINEER: CHARLES F RIDDLE, P.E. SCHAUMBURG, IL

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved Aug 8, 2019 DATE
Crete Township Road District, Highway Commissioner

Passed 8-19-2019 DATE
District 1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review August 20, 2019 DATE
Regional Engineer

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-7	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15'' (375 mm) THRU 84'' (2100 mm) DIA.
602001-02	CATCH BASIN TYPE A
602406-10	PRECAST MANHOLE TYPE A 6' DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604036-03	GRATE TYPE 8
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631033-08	TRAFFIC BARRIER TERMINAL, TYPE 6B
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
701901-08	TRAFFIC CONTROL DEVICES
BLR 24-2	MAILBOX TURNOUT

IDOT DISTRICT 1 DETAILS

STANDARD NO.	LIST OF DESCRIPTION
BD-07	STORM SEWER CONNECTION TO EXISTING SEWER
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

DATE PLOTTED = 10/4/2019 11:29:35 PM
PEN TABLE = $PENTBL$
PLOTTED BY = $USERNAME
FILE NAME = N:\PROJ\002201195.00\002201195.02\Design\Misc.Sheets\002201195.02-index01.dgn

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
E-mail: chicago@ciorba.com

USER NAME = aharn	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 10/4/2019	DATE - 10/4/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARDS

SCALE: | SHEET NO. 01 OF 01 SHEETS | STA. | TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	2
		CONTRACT		61F15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, WELLS, OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

2. EXISTING STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25.

3. THE FINAL TOP FOUR INCHES OF SOIL IN DISTURBED RIGHT AREA BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE FIELD TILES, UNDERGROUND AND SURFACE UTILITIES AS OUTLINED IN ARTICLE 107.37 OF THE STANDARD SPECIFICATIONS, EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY FIELD TILE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

5. ALL CONSTRUCTION TO BE ACCORDING TO IDOT DESIGN AND STANDARD SPECIFICATIONS, MUST ADHERE TO THE WILL COUNTY DIVISION OF TRANSPORTATION PERMIT REGULATIONS AND ACCESS CONTROL REGULATIONS, AND SHALL FOLLOW THE LATEST WILL COUNTY STORM WATER MANAGEMENT ORDINANCE AND WILL COUNTY WATER RESOURCE ORDINANCE AT ALL TIMES.

6. A PROOF ROLL OF THE SUBGRADE IS REQUIRED PRIOR TO PLACING THE AGGREGATE SUB- BASE AND MUST BE OBSERVED BY THE ENGINEER. NOTIFY THE ENGINEER PRIOR TO DOING THE PROOF ROLL.

7. THE CRETE TOWNSHIP HIGHWAY DEPARTMENT MUST BE NOTIFIED AT PH#(708)-672-7732 A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE OF ANY NON-EMERGENCY CONSTRUCTION WITHIN THE RIGHT-OF-WAY.

8. A REGIONAL 404 PERMIT WILL BE OBTAINED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.

9. THE LOCATION AND ELEVATIONS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

10. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO THIS CONSTRUCTION.

11. THE UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS INCLUDE:

    ANR PIPELINE COMPANY
    ATTN: CARRIE CHILDRESS
    PH: (304) 357-3179
    EMAIL: carrie_childress@transcanada.com

    COMCAST
    ATTN: TED WYMAN
    PH: (224) 229-5850
    EMAIL: Ted_Wyman@comcast.com

    AT&T
    ATTN: STEVE PESOLA
    PH: (630) 573-5703
    EMAIL: sp9653@att.com

    NICOR
    ATTN: BRUCE KOPPANG
    PH: (630) 388-3046
    EMAIL: gasmaps@southernco.com

    COMED
    ATTN: MISAEL HERNANDEZ
    PH: 630-576-7094
    EMAIL: Misael.Hernandez@ComEd.com

12. ALL CONSTRUCTION MATERIALS WITHIN THE TOWNSHIP RIGHT-OF-WAY MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO ENGINEER APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.

13. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A LIST OF MATERIALS USED AND IDENTIFY THEIR ASSOCIATED IDOT CERTIFICATION, SHALL PROVIDE THE ENGINEER WITH A COPY OF ALL MATERIAL TESTING COMPANY RESULTS, SHALL SIGN AND PROVIDE THE ENGINEER ON A WEEKLY BASIS WEEKLY FIELD REPORTS UTILIZING THE APPROPRIATE IDOT FORM, SHALL SUBMIT TO THE ENGINEER A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

14. STABILIZED SHOULDER AS SHOWN IN STANDARD 630201 SHALL BE 7 1/2" TO MATCH EXISTING PAVEMENT.

15. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC AS-BUILT OR OTHER RECORD PLANS SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

    ANTHONY RECUPITO, CRETE TOWNSHIP COMMISSIONER
    CRETE TOWNSHIP HIGHWAY DEPARTMENT
    (708) 672-7732

16. THOSE SEEKING THE FULL HYDRAULIC REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

    ANTHONY RECUPITO, CRETE TOWNSHIP COMMISSIONER
    CRETE TOWNSHIP HIGHWAY DEPARTMENT
    (708) 672-7732

17. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.

18. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUALLY. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

19. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

COMMITMENTS

1. A LOW GROW, LOW MAINTENANCE VEGETATION SHALL BE USED ON THE DANNE ROAD EMBANKMENT.

2. THE FIELD ENTRANCE AT 3347 E DANNE ROAD SHALL BE REPLACED.

3. TO AVOID POTENTIAL IMPACTS TO NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS), TREE REMOVALS SHALL NOT OCCUR FROM JUNE 1ST THROUGH JULY 31ST.

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	982
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	360
	20101100	TREE TRUNK PROTECTION	EACH	17
*	20101200	TREE ROOT PRUNING	EACH	17
*	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	12
*	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	5
	20200100	EARTH EXCAVATION	CU YD	2,990
	20400800	FURNISHED EXCAVATION	CU YD	959
	20800150	TRENCH BACKFILL	CU YD	28
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,579
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2,209
*	25000314	SEEDING, CLASS 4B	ACRE	0.50
*	25000312	SEEDING, CLASS 4A	ACRE	1.25
*	25100127	MULCH, METHOD 3A	ACRE	1.75
*	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	5,225
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	105
	28000305	TEMPORARY DITCH CHECKS	FOOT	120
	28000400	PERIMETER EROSION BARRIER	FOOT	3,737

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
△	28100107	STONE RIPRAP, CLASS A4	SQ YD	491
	28200200	FILTER FABRIC	SQ YD	691
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	374
△	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2,579
△	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	483
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,063
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	794
	40604060	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	TON	266
	44000100	PAVEMENT REMOVAL	SQ YD	2,335
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	152
	48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	560
△	48203027	HOT-MIX ASPHALT SHOULDERS, 7 1/2"	SQ YD	504
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50105220	PIPE CULVERT REMOVAL	FOOT	144
	50200100	STRUCTURE EXCAVATION	CU YD	253
	50300225	CONCRETE STRUCTURES	CU YD	44.6
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	101.8
	50300260	BRIDGE DECK GROOVING	SQ YD	322
	50300300	PROTECTIVE COAT	SQ YD	404

* DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

DATE PLOTTED = 8/23/2019 10:20:21 AM
PEN TABLE = $PENTBLS$
PLOT CONFIG = $PLTDRVL$
FILE NAME = N:\PROJ\00201195.00\00201195.02\Design\Misc. Sheets\00201195.02-soq.dgn

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = mhigginson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/23/2019	DATE - 8/23/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 1 OF 3 SHEETS | STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	4
		CONTRACT	61F15	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	90.7
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	72,620
	51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	1,200
	51202305	DRIVING PILES	FOOT	1,200
	51203200	TEST PILE METAL SHELLS	EACH	4
	51204650	PILE SHOES	EACH	24
	51500100	NAME PLATES	EACH	1
	54213453	END SECTIONS 18"	EACH	4
	54213459	END SECTIONS 24"	EACH	1
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	790
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	33
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	3
	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1,865
	60108206	PIPE UNDERDRAINS, TYPE 2, 6"	FOOT	170
	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	5
	60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	EACH	1
*	63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	4
*	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4
	63200310	GUARDRAIL REMOVAL	FOOT	108

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6
	67100100	MOBILIZATION	L SUM	1
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	31
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	353
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	98
*	A2004420	TREE, GINKGO BILOBA (GINKGO), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5
*	A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	11
*	B2002220	TREE, CRATAEGUS VIRDIS WINTER KING (WINTER KING GREEN HAWTHORN), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	6
*	B2006220	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	7
	X0300249	REMOVE EXISTING GATE	EACH	1
△	X0322918	PROPOSED MANHOLE/CATCH BASIN CONNECTION OVER EXISTING STORM SEWER	EACH	4
△	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	1
△ *	X0325522	REINSTALLING EXISTING STEEL GATE ASSEMBLY	EACH	1
△	X2010400	STUMP REMOVAL ONLY	UNIT	100
△	X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	374
△	X2510900	TURF REINFORCEMENT MAT (SPECIAL)	SQ YD	1,737
△	X2800500	INLET PROTECTION, SPECIAL	EACH	6
△	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	3

* DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

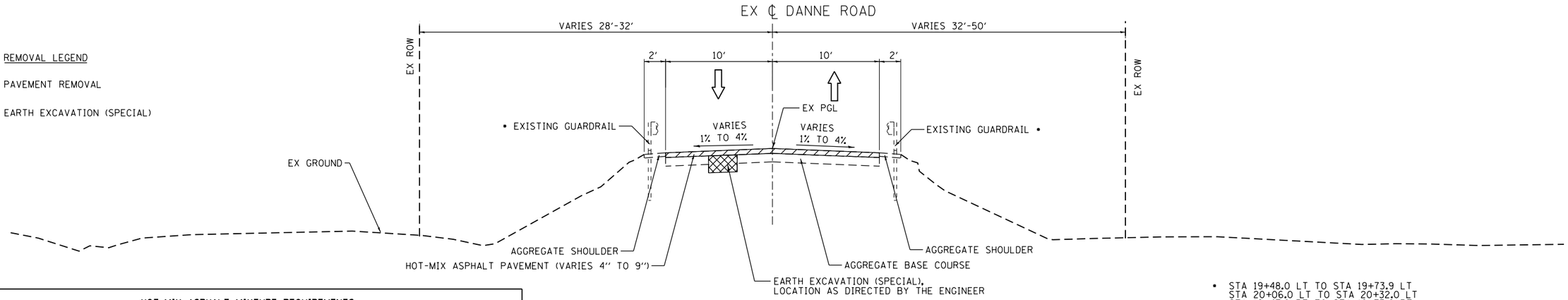
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
△	X4023000	TEMPORARY ACCESS (ROAD)	EACH	2
△	X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	1
△ *	X5091755	PARAPET RAILING, SPECIAL	FOOT	127
△	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
△	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	200
△	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
△	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	103
△	Z0076870	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	1

* DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

REMOVAL LEGEND

PAVEMENT REMOVAL

EARTH EXCAVATION (SPECIAL)



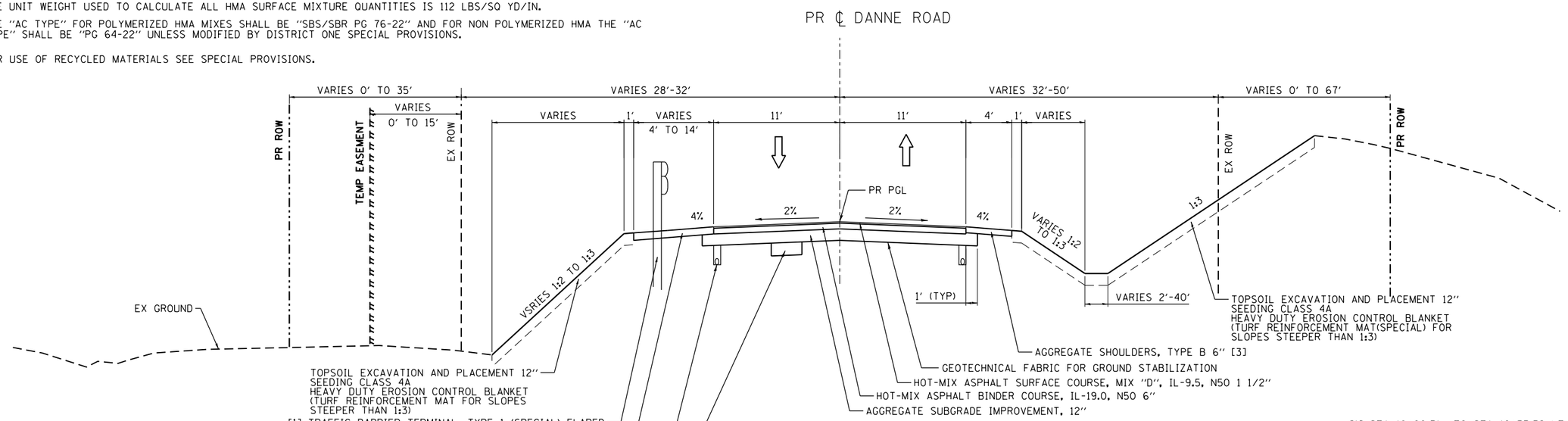
EXISTING TYPICAL SECTION

STA 14+20.00 TO STA 25+00.00, DANNE ROAD

• STA 19+48.0 LT TO STA 19+73.9 LT
STA 20+06.0 LT TO STA 20+32.0 LT
STA 19+47.8 RT TO STA 19+73.6 RT
STA 20+06.0 RT TO STA 20+31.8 RT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	**PERCENT AIR VOIDS**
PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 1 1/2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 6" (IN 2 LIFTS)	4% @ 50 GYR.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2 1/2"	4% @ 50 GYR.
SHOULDERS, MAILBOX TURNOUTS	
HOT-MIX ASPHALT SHOULDERS, 7 1/2" (HMA BINDER IL-19.0)	4% @ 50 GYR.

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



PROPOSED TYPICAL SECTION

STA 14+20.00 TO STA 19+38.38, DANNE ROAD
STA 19+38.38 TO STA 19+68.38 (APPROACH SLAB - SEE BRIDGE PLANS)
STA 19+68.38 TO STA 20+11.63 (BRIDGE OMISSION)
STA 20+11.63 TO STA 20+41.63 (APPROACH SLAB - SEE BRIDGE PLANS)
STA 20+41.63 TO STA 25+00.00, DANNE ROAD

[1] STA 18+60.31 TO STA 19+53.32 LT,RT
STA 20+26.57 TO STA 21+19.58 LT,RT

[2] STA 18+25.30 TO STA 19+53.32 LT,RT
STA 20+26.57 TO STA 21+56.21 LT,RT

[3] STA 14+20.00 TO STA 18+25.30 LT,RT
STA 21+56.21 TO STA 25+00.00 LT,RT

DATE PLOTTED = 8/23/2019 10:26:23 AM
PEN TABLE = $PENTBL$
PLOT SCALE = $$SCALE$$
FILE NAME = N:\PROJ\80220195.00\80220195.02\Design\Typical Sections\80220195.02-Typical01.dgn

ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
8507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4099 Fax 773.775.4014
Email chicago@clorba.com

USER NAME = mhigginson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/23/2019	DATE - 8/23/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	7
		CONTRACT		61F15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

COMMENT	STATION	LENGTH	CUT	FILL	UNSUITABLE	EARTH EXCAVATION	EARTH EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	[1] EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL		TOPSOIL EXCAVATION	TOPSOIL EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	TOPSOIL PLACEMENT	[2] TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-)	EARTH EXCAVATION (SPECIAL),
										CUT	FILL					
		FT	SQ FT	SQ FT	SQ FT	CY	CY	CY	CY	SQ FT	SQ FT	CY	CY	CY	CY	CY
AHEAD	14+20.00		28.5	0.7						6.1	6.1					
	14+26.00	6	46.6	10.4	0.0	8.3	7.1	1.2	5.9	35.3	34.3	4.6	3.9	4.5	-0.6	0.0
	14+50.00	24	53.4	13.1	0.0	44.4	37.8	10.4	27.3	38.6	36.1	32.8	27.9	31.3	-3.4	0.0
	15+00.00	50	47.2	28.3	0.0	93.1	79.2	38.3	40.8	41.6	36.4	74.3	63.1	67.1	-4.0	0.0
	15+50.00	50	15.1	51.8	0.0	57.7	49.0	74.2	-25.1	39.7	33.6	75.3	64.0	64.8	-0.8	0.0
	16+00.00	50	0.0	86.0	0.0	14.0	11.9	127.6	-115.7	36.6	30.1	70.6	60.1	59.0	1.1	0.0
	16+30.00	30	11.5	53.9	0.0	6.4	5.4	77.7	-72.3	18.0	18.3	30.3	25.8	26.9	-1.1	0.0
	16+50.00	20	12.6	72.3	0.0	8.9	7.6	46.7	-39.1	25.3	19.5	16.0	13.6	14.0	-0.4	0.0
	17+00.00	50	219.4	75.0	0.0	214.8	182.6	136.4	46.2	83.2	76.8	100.5	85.4	89.2	-3.8	0.0
	17+50.00	50	152.7	92.5	0.0	344.5	292.9	155.1	137.8	80.6	75.1	151.7	128.9	140.6	-11.7	0.0
	17+65.00	15	121.7	81.4	0.0	76.2	64.8	48.3	16.5	60.5	59.9	39.2	33.3	37.5	-4.2	0.0
	18+00.00	35	122.9	83.7	0.0	158.5	134.8	107.0	27.7	87.8	82.1	96.1	81.7	92.0	-10.3	0.0
	18+50.00	50	25.9	176.0	0.0	137.8	117.1	240.5	-123.4	78.8	52.2	154.3	131.1	124.4	6.8	0.0
	19+00.00	50	0.0	144.1	0.0	24.0	20.4	296.4	-276.0	34.5	21.5	104.9	89.2	68.2	20.9	0.0
BACK	19+38.32	38	0.0	173.5	0.0	0.0	0.0	225.4	-225.4	37.0	25.6	50.7	43.1	33.4	9.7	0.0
AHEAD	19+38.32		0.0	176.5	0.0					37.0	25.6					
	19+50.00	12	0.0	175.7	0.0	0.0	0.0	76.2	-76.2	37.1	26.1	16.0	13.6	11.2	2.4	0.0
BACK	19+68.30	18	0.0	209.6	0.0	0.0	0.0	130.6	-130.6	47.7	30.7	28.7	24.4	19.2	5.2	0.0
	SUBTOTALS					1188.8	1010.5	1792.0	-781.5			1046.1	889.2	883.4	5.8	0.0
	BRIDGE OMISSION															
AHEAD	20+11.60		0.0	209.6	0.0					50.9	34.0					
BACK	20+41.57	30	0.0	182.4	0.0	0.0	0.0	217.6	-217.6	39.3	27.6	50.1	42.6	34.2	8.4	0.0
AHEAD	20+41.57		0.0	177.9	0.0					39.3	27.6					
	20+50.00	8	0.0	173.5	0.0	0.0	0.0	54.9	-54.9	38.6	26.6	12.2	10.3	8.5	1.9	0.0
	21+00.00	50	0.0	205.6	0.0	0.0	0.0	351.0	-351.0	44.3	21.7	76.8	65.2	44.7	20.5	0.0
	21+50.00	50	96.8	113.3	0.0	89.6	76.2	295.3	-219.1	96.1	86.7	130.0	110.5	100.4	10.1	0.0
	22+00.00	50	270.3	103.5	0.0	339.9	288.9	200.7	88.2	122.6	115.2	202.5	172.1	186.9	-14.8	0.0
	22+42.00	42	380.2	98.2	0.0	505.9	430.1	156.9	273.2	131.2	123.2	197.4	167.8	185.4	-17.6	0.0
BACK	22+50.00	8	417.4	92.5	0.0	105.5	89.7	28.3	61.4	133.3	125.8	39.2	33.3	36.9	-3.6	0.0
AHEAD	22+50.00		417.4	85.3	48.3					131.2	125.3					
	22+95.00	45	4.4	119.2	48.3	351.5	298.8	170.4	128.4	55.6	26.1	155.7	132.3	126.2	6.1	80.5
	23+00.00	5	0.0	142.6	48.3	0.4	0.3	24.2	-23.9	55.1	0.0	10.3	8.7	2.4	6.3	8.9
	23+08.00	8	0.0	90.6	48.7	0.0	0.0	34.5	-34.5	43.3	13.7	14.6	12.4	2.0	10.4	14.4
BACK	23+50.00	42	14.0	36.5	48.5	10.9	9.3	98.9	-89.6	30.8	23.4	57.6	49.0	28.9	20.1	75.6
AHEAD	23+50.00		13.9	43.7	0.0					30.8	23.3					
	24+00.00	50	97.6	12.2	0.0	103.2	87.8	51.8	36.0	46.9	39.1	71.9	61.2	57.8	3.4	0.0
	24+50.00	50	95.1	4.2	0.0	178.4	151.7	15.2	136.5	43.8	39.5	84.0	71.4	72.8	-1.4	0.0
BACK	25+00.00	50	29.7	4.2	0.0	115.6	98.2	7.8	90.4	20.8	20.8	59.8	50.8	55.8	-5.0	0.0
	SUBTOTALS					1801.0	1530.8	1707.4	-176.5			1161.9	987.6	942.9	44.8	179.4
															EARTH EXCAVATION (SPECIAL), (AS DIRECTED BY THE ENGINEER)	194.6
ROUNDUP TOTAL						**2990.0**	**2542.0**	**3500.0**	**-959.0**			**2209.0**	**1877.0**	**1827.0**	**51.0**	**374.0**

DANNE ROAD

[1] 959 CY PAID AS FURNISHED EXCAVATION.

[2] 51 CY WASTE TOPSOIL TO BE RESPREAD ON SITE AT LOCATION AS DIRECTED BY ENGINEER

DATE PLOTTED = 8/9/2019 8:44:38 AM
PEN TABLE = $PENTBL$
REFERENCES = $REFDWG$
FILE NAME = N:\PROJ\00220195.B01\00220195.02\Design\Misc. Sheets\00220195_02-schedule01.dgn

ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4069 Fax 773.775.4014
Email chicago@clorba.com

USER NAME = lmattson	DESIGNED - JX	REVISED -
	DRAWN - DDS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JX	REVISED -
PLOT DATE = 8/9/2019	DATE - 8/9/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	8
		CONTRACT	61F15	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

STATION	LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
		QUANTITY	UNIT
14+43	RT	1.0	12.0
15+07	RT	2.0	6.0
15+30	RT	1.0	8.0
15+32	RT	2.0	6.0
15+83	RT	1.0	6.0
15+87	RT	1.0	8.0
16+11	RT	1.0	8.0
16+13	RT	1.0	10.0
16+26	RT	1.0	10.0
19+78	RT	1.0	6.0
19+78	RT	1.0	8.0
21+58	RT	1.0	12.0
23+02	RT	2.0	8.0
23+02	RT	1.0	6.0
23+02	RT	1.0	4.0
23+37	RT	4.0	6.0
23+89	RT	1.0	6.0
14+25	LT	1.0	12.0
14+80	LT	1.0	6.0
14+84	LT	1.0	12.0
15+79	LT	1.0	12.0
17+52	LT	3.0	12.0
17+79	LT	2.0	6.0
18+79	LT	3.0	6.0
18+93	LT	2.0	6.0
19+36	LT	1.0	8.0
21+23	LT	2.0	12.0
21+37	LT	1.0	8.0
21+62	LT	2.0	15.0
21+76	LT	1.0	10.0
21+79	LT	1.0	12.0
21+84	LT	2.0	8.0
21+91	LT	1.0	6.0
22+03	LT	4.0	8.0
22+03	LT	5.0	10.0
22+19	LT	1.0	12.0
22+24	LT	1.0	12.0
22+33	LT	1.0	8.0
22+36	LT	1.0	10.0
22+36	LT	1.0	12.0
22+51	LT	1.0	12.0
22+53	LT	1.0	6.0
22+59	LT	1.0	10.0
22+60	LT	1.0	6.0
22+64	LT	1.0	12.0
22+65	LT	1.0	8.0
22+68	LT	1.0	10.0
22+69	LT	4.0	6.0
22+69	LT	1.0	10.0
22+77	LT	2.0	6.0
22+83	LT	1.0	6.0
22+87	LT	1.0	6.0
22+10	LT	1.0	10.0
22+10	LT	1.0	12.0
23+34	LT	1.0	8.0
23+44	LT	1.0	6.0
23+45	LT	1.0	8.0
23+55	LT	1.0	10.0
23+93	LT	1.0	6.0
SUBTOTAL			720.0

STATION	LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
24+14	LT	5.0	8.0
24+16	LT	1.0	10.0
24+18	LT	1.0	6.0
24+23	LT	3.0	6.0
24+38	LT	1.0	6.0
24+40	LT	1.0	8.0
24+44	LT	1.0	8.0
24+55	LT	1.0	14.0
24+60	LT	1.0	12.0
24+67	LT	1.0	10.0
24+70	LT	1.0	10.0
24+80	LT	1.0	8.0
24+84	LT	1.0	6.0
24+85	LT	1.0	6.0
25+01	LT	1.0	10.0
10% GROWTH			90
TOTAL			982.0

STATION	LOCATION	TREE REMOVAL (OVER 15 UNITSDIAMETER)	
		QUANTITY	UNIT
15+39	LT	1.0	18.0
17+90	LT	1.0	34.0
17+90	LT	1.0	32.0
18+34	LT	1.0	27.0
18+74	LT	1.0	22.0
18+77	LT	1.0	20.0
18+86	LT	1.0	24.0
19+61	LT	1.0	26.0
19+72	LT	2.0	18.0
23+85	LT	1.0	16.0
23+99	LT	1.0	16.0
24+01	LT	1.0	16.0
24+34	LT	1.0	20.0
24+60	LT	1.0	20.0
10% GROWTH			33
TOTAL			360

STATION	LOCATION	STUMP REMOVAL ONLY	
		QUANTITY	UNIT
17+66	RT	1.0	8.0
23+33	RT	1.0	8.0
24+35	RT	1.0	10.0
15+74	LT	1.0	12.0
15+62	LT	1.0	12.0
16+11	LT	1.0	10.0
20+10	LT	1.0	28.0
22+65	LT	2.0	6.0
TOTAL			100

STATION	LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6B (EACH)	TRAFFIC BAARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED (EACH)
18+60	LT		1
18+60	RT		1
19+53	LT	1	
19+53	RT	1	
20+27	LT	1	
20+27	RT	1	
21+20	LT		1
21+20	RT		1
TOTAL		4	4

ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
9507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4099 Fax 773.775.4014
Email chicago@clorba.com

USER NAME = mdaboub	DESIGNED - JX	REVISED -
	DRAWN - DDS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JX	REVISED -
PLOT DATE = 8/27/2018	DATE - 8/27/2018	REVISED -

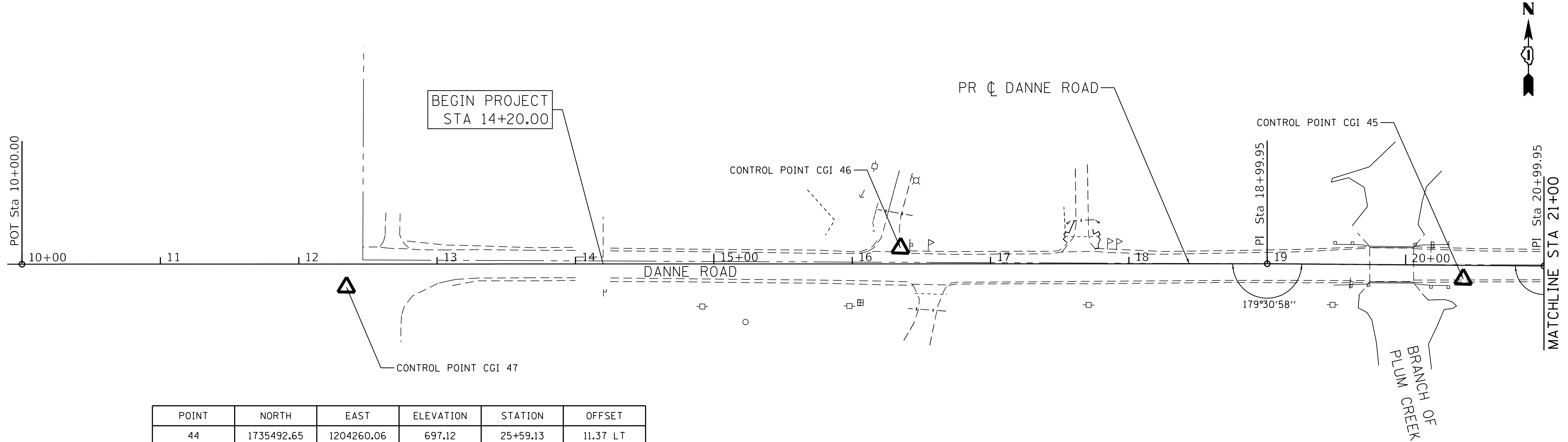
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

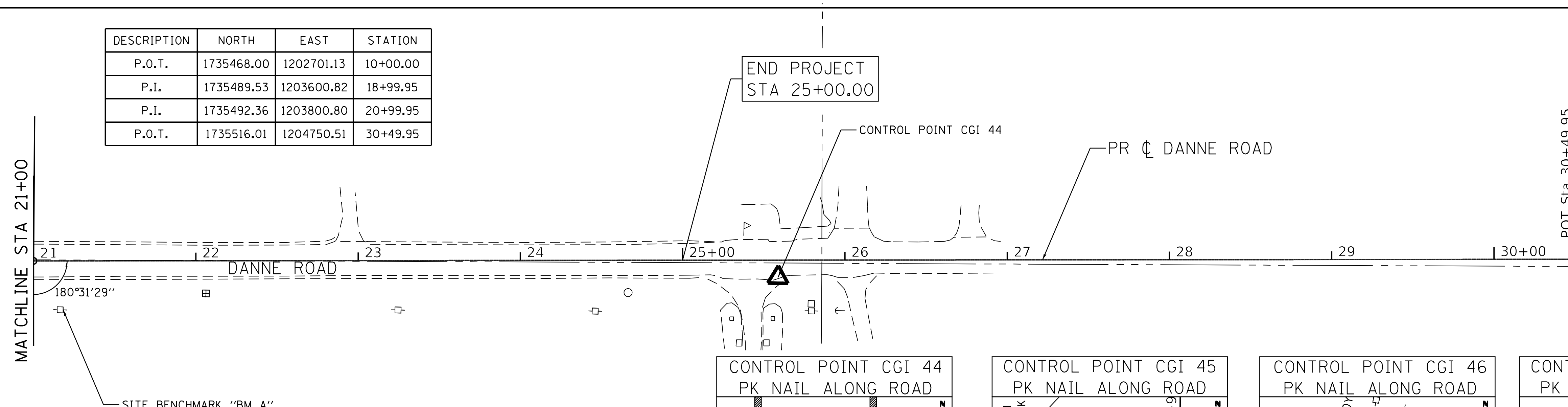
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	9
		CONTRACT		61F15

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



POINT	NORTH	EAST	ELEVATION	STATION	OFFSET
44	1735492.65	1204260.06	697.12	25+59.13	11.37 LT
45	1735481.70	1203742.70	676.40	20+41.74	10.03 RT
46	1735494.57	1203335.55	684.21	16+34.73	14.14 LT
47	1735457.00	1202935.91	706.38	12+34.45	16.61 RT

DESCRIPTION	NORTH	EAST	STATION
P.O.T.	1735468.00	1202701.13	10+00.00
P.I.	1735489.53	1203600.82	18+99.95
P.I.	1735492.36	1203800.80	20+99.95
P.O.T.	1735516.01	1204750.51	30+49.95

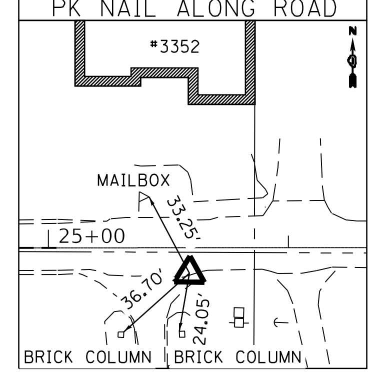


SITE BENCHMARK — ELEVATION

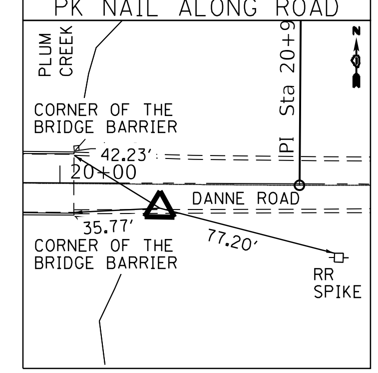
BM "A" — RAILROAD SPIKE IN FIRST POWER POLE EAST OF THE BRIDGE OVER PLUM CREEK ABOUT 1 FOOT ABOVE THE GROUND — 674.92

(ELEVATIONS REFLECT NAVD 88 VALUES)

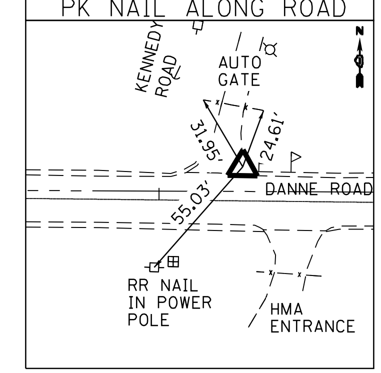
CONTROL POINT CGI 44
PK NAIL ALONG ROAD



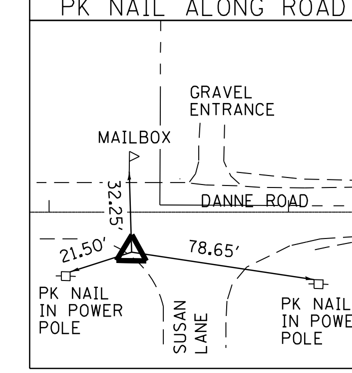
CONTROL POINT CGI 45
PK NAIL ALONG ROAD



CONTROL POINT CGI 46
PK NAIL ALONG ROAD



CONTROL POINT CGI 47
PK NAIL ALONG ROAD



DATE PLOTTED = 8/27/2018 7:16:34 PM
PEN TABLE = $PENTBLS$
PLOT CONFIG = $PLTDRVL$
FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Misc_Sheets\0020195.02-alignties01.dgn

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = mdaboub	DESIGNED - MLD	REVISED -	
	DRAWN - DW	REVISED -	
PLOT SCALE = 80.0000 ' / in.	CHECKED - EPS	REVISED -	
PLOT DATE = 8/27/2018	DATE - 8/27/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. 10+00 TO STA. 30+50

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	10
		CONTRACT		61F15

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

BEGIN IMPROVEMENT
STA 14+20.00

EX ℄ DANNE ROAD

EX ROW

PR TEMP EASE

PR ROW

REMOVE EXISTING GATE

DRIVEWAY PAVEMENT REMOVAL (TYP)

REINSTALLING EXISTING STEEL GATE ASSEMBLY

MATCHLINE STA 19+25

BRANCH OF PLUM CREEK

EX SIRUCTURE
SN 099-3174

AGG FIELD ENTRANCE REMOVAL
TO BE PAID FOR AS EARTH EXCAVATION

END IMPROVEMENT
STA 25+00.00

PERM EASE

REMOVAL LEGEND

PAVEMENT REMOVAL

GUARDRAIL REMOVAL

PIPE CULVERT REMOVAL

TREE REMOVAL

STUMP REMOVAL ONLY

FLARED END SECTION

GRAPHIC SCALE 0 20' 40'

DATE PLOTTED = 12/6/2019 9:54:58 AM
PEN TABLE = $PENTBL$
PLOT SCALE = $PLTSCL$
FILE NAME = N:\PROJ\00220195.00\00220195.02\Design\Removal\00220195.02-eml1.dgn

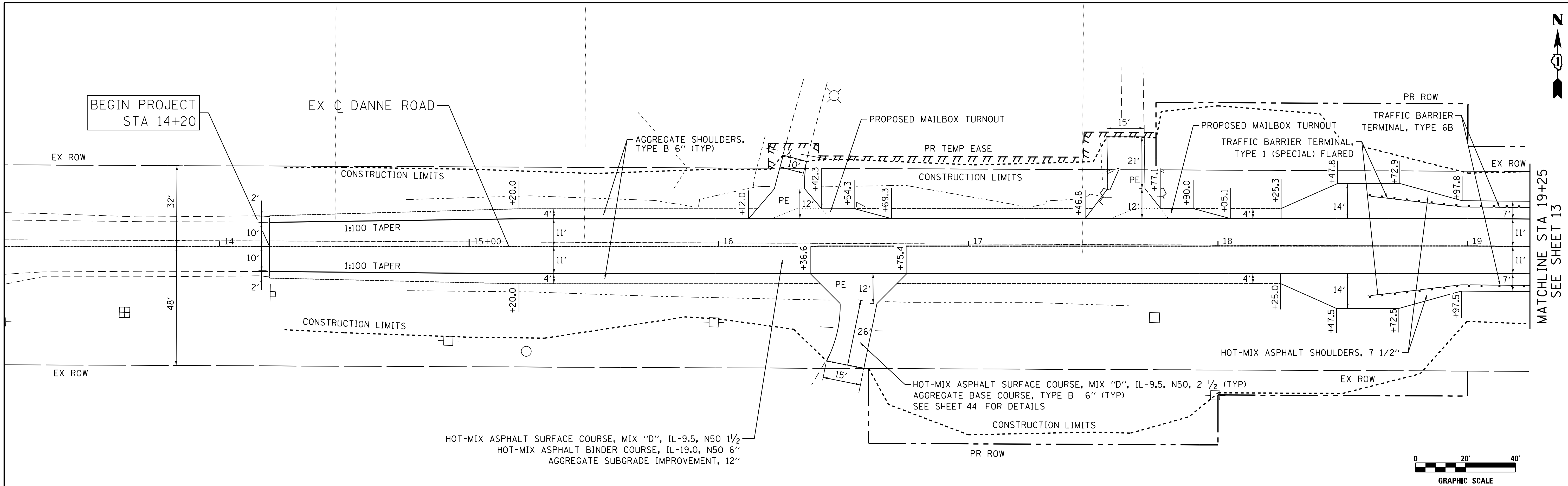
ENGINEERING CONSULTANT	USER NAME = Roadway	DESIGNED - MLD	REVISED -
Clorba Group, Inc. CONSULTING ENGINEERS 9507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4099 Fax 773.775.4014 Email chicago@clorba.com		DRAWN - DW	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - EPS	REVISED -
	PLOT DATE = 12/6/2019	DATE - 12/6/2019	REVISED -

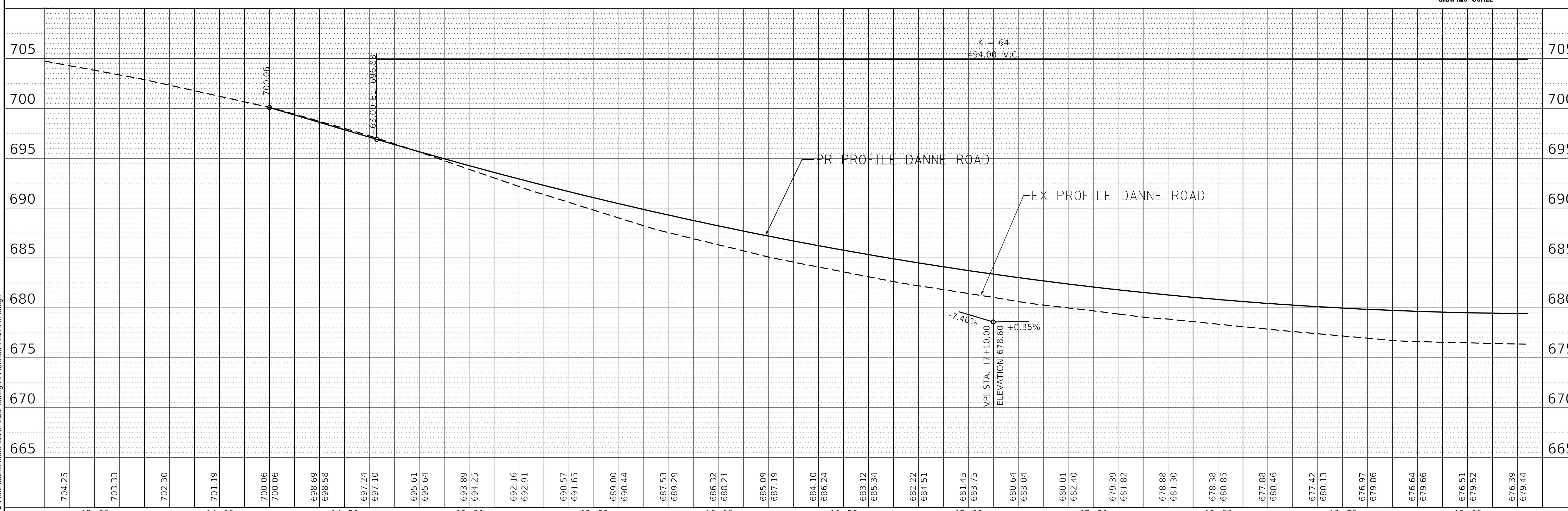
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS & REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. 14+20 TO STA. 25+00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	11
		CONTRACT		61F15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		


BEGIN PROJECT STA 14+20
EX ℄ DANNE ROAD
EX ROW
CONSTRUCTION LIMITS
AGGREGATE SHOULDERS, TYPE B 6" (TYP)
PROPOSED MAILBOX TURNOUT
PR TEMP EASE
PR ROW
TRAFFIC BARRIER TERMINAL, TYPE 6B
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED
1:100 TAPER
HOT-MIX ASPHALT SHOULDERS, 7 1/2"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2 1/2 (TYP)
AGGREGATE BASE COURSE, TYPE B 6" (TYP)
SEE SHEET 44 FOR DETAILS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50 1 1/2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 6"
AGGREGATE SUBGRADE IMPROVEMENT, 12"
MATCHLINE STA 19+25
SEE SHEET 13
GRAPHIC SCALE
N



ENGINEERING CONSULTANT: Ciorba Group, Inc. CONSULTING ENGINEERS, 5507 North Cumberland Avenue, Suite 402, Chicago, Illinois 60656, Tel. 773.775.4009 Fax 773.775.4014, Email chicago@ciorba.com	USER NAME = Roadway	DESIGNED - MLD	REVISED -
		DRAWN - DW	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - EPS	REVISED -
	PLOT DATE = 12/6/2019	DATE - 12/6/2019	REVISED -

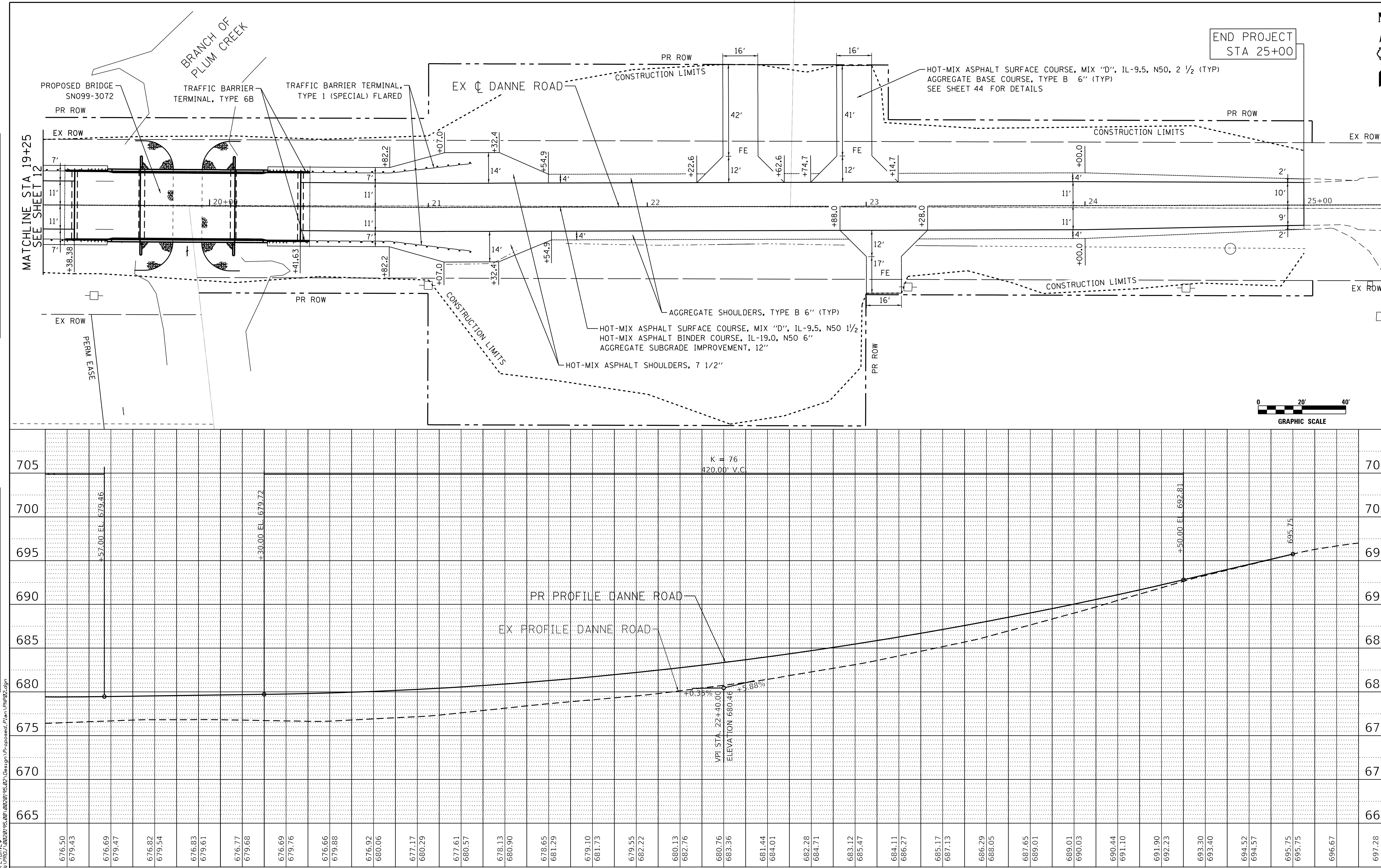
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. 14+00 TO STA. 19+25

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	12
		CONTRACT		61F15

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



ENGINEERING CONSULTANT	USER NAME = Roadway	DESIGNED - MLD	REVISED -
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com		DRAWN - DW	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - EPS	REVISED -
	PLOT DATE = 12/6/2019	DATE - 12/6/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

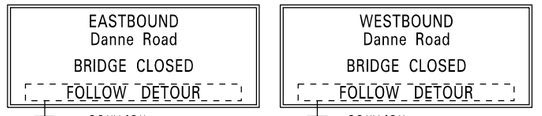
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. 19+25 TO STA. 25+04

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	13
		CONTRACT 61F15		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

DATE PLOTTED = 12/6/2019 11:58:16 AM



3 — 60"X48" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND — 1

3 — 60"X48" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND — 2

3

W20-3-4848 — 4

W20-2-4848 — 5

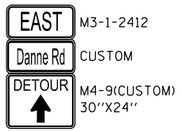
W20-3-4848 — 6

M6-1(O)-2115 — 7L

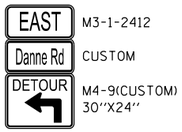
M6-1(O)-2115 — 7R

W20-2-2415 CUSTOM — 8

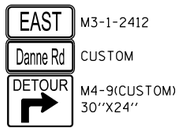
M6-3-2415 — 9



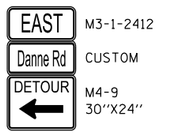
M3-1-2412 CUSTOM M4-9(CUSTOM) 30"X24" — 10



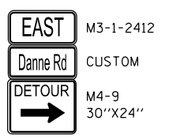
M3-1-2412 CUSTOM M4-9(CUSTOM) 30"X24" — 11L



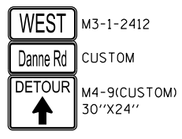
M3-1-2412 CUSTOM M4-9(CUSTOM) 30"X24" — 11R



M3-1-2412 CUSTOM M4-9 30"X24" — 12L



M3-1-2412 CUSTOM M4-9 30"X24" — 12R

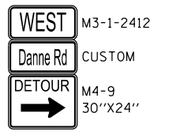


M3-1-2412 CUSTOM M4-9(CUSTOM) 30"X24" — 13

M3-1-2412 CUSTOM M4-9(CUSTOM) 30"X24" — 14L

M3-1-2412 CUSTOM M4-9(CUSTOM) 30"X24" — 14R

M3-1-2412 CUSTOM M4-9 30"X24" — 15L



M3-1-2412 CUSTOM M4-9 30"X24" — 15R

R3-1 30"X30" — 16

R3-2 30"X30" — 17

R5-1-3030 — 18

R11-2-4830 — 19

R11-4-6030 M4-10L-4818 — 20L

R11-4-6030 M4-10R-4818 — 20R

R11-4-6030 — 20A

M4-8a-2418 — 21

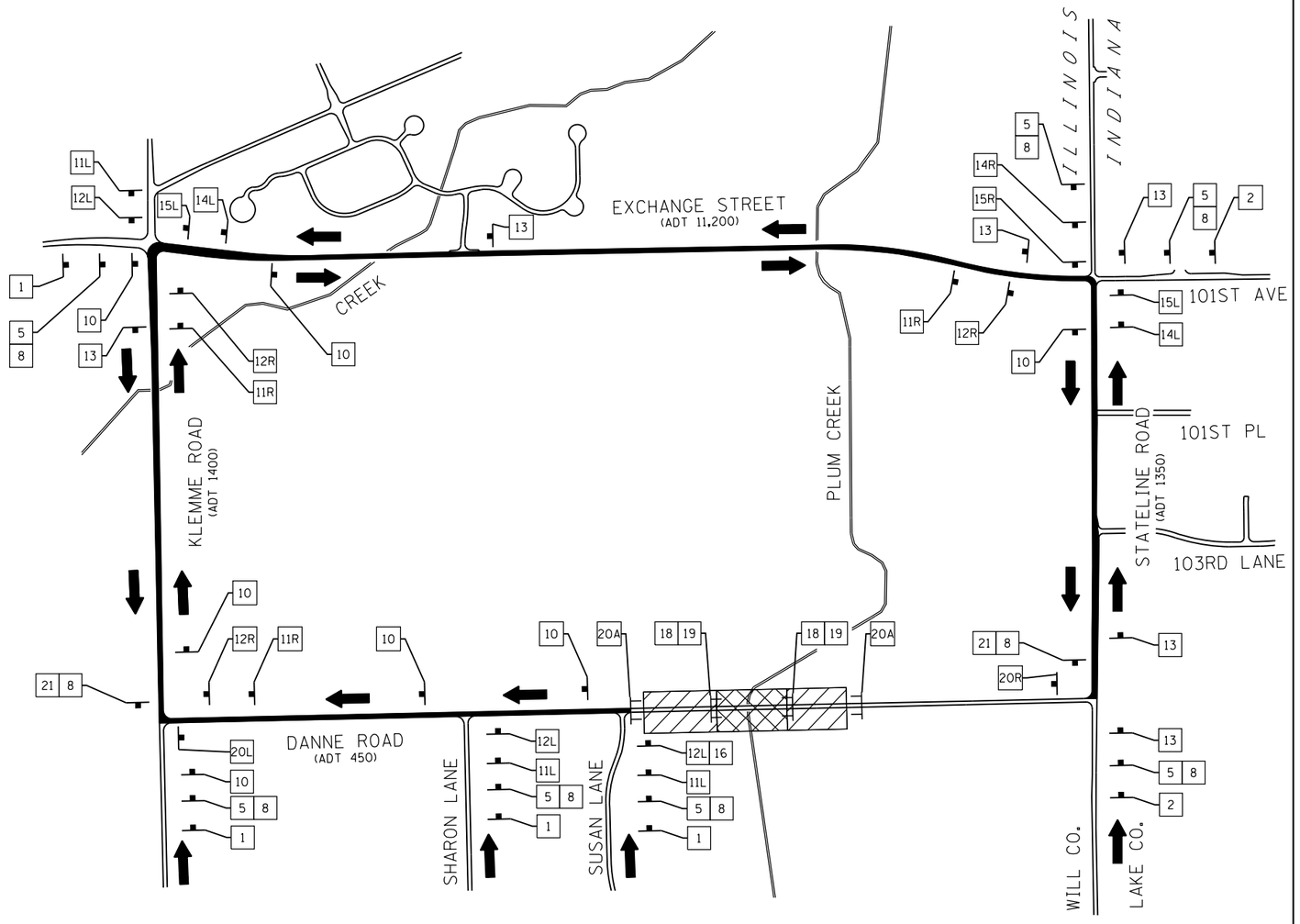
NOTES:

1. SIGN 1 WITH SIGN 3 COVERING SHALL BE PLACED ONE (1) WEEK PRIOR TO CLOSURE. REMOVE SIGN 3 ONCE DETOUR BEGINS.
2. THE CONTRACTOR SHALL CALL J.U.L.I.E. BEFORE INSTALLING SIGNS IN ILLINOIS, AND 811 BEFORE INSTALLING SIGNS IN INDIANA
3. ROAD CLOSURE SIGNAGE SHALL NOT BE INSTALLED ON ANY STREET LIGHT POLES OR SIGNAL POLES.
4. ROAD CLOSURE SIGNAGE SHALL NOT BLOCK ANY EXISTING SIGNS AND CANNOT USE THE EXISTING SIGN POSTS.
5. TYPE III BARRICADE PLACEMENT SHALL FOLLOW HIGHWAY STANDARD 701901.
6. SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-21 UNLESS NOTED ON PLAN.
7. PLAN NOT TO SCALE.

LEGEND:

- PROPOSED VECHICLE DETOUR ROUTE
- DETOUR SIGN POST-MOUNTED PER ARTICLE 701.14 AND HIGHWAY STANDARD 701901
- TYPE III BARRICADE WITH FLASHERS
- ROAD PARTIALLY CLOSED TO THRU TRAFFIC
- ROAD COMPLETELY CLOSED TO THRU TRAFFIC

N



DATE PLOTTED = 8/27/2018 7:16:39 PM
PEN TABLE = $PENTBL_S$
PEN TABLE = $PENTBL_S$
FILE NAME = N:\PROJ\0020195.80\0020195.82\Design\MOT\0020195.82-mot01.dgn

ENGINEERING CONSULTANT	USER NAME = mdaboub	DESIGNED - MLD	REVISED -
Ciorba Group, Inc. CONSULTING ENGINEERS 2507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com		DRAWN - DW	REVISED -
	PLOT SCALE = 800.0000 ' / in.	CHECKED - EPS	REVISED -
	PLOT DATE = 8/27/2018	DATE - 8/27/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	14
		CONTRACT		61F15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES:
1. ALL HEAVY DUTY EROSION CONTROL BLANKETS AND THE TURF REINFORCEMENT MAT (SPECIAL) SHALL RECEIVE SEEDINGS PRIOR TO BLANKET/MAT INSTALLATION. SEE SEEDING CLASS TYPES ON LANDSCAPE PLAN.

BEGIN PROJECT STA 14+20

EX ℄ DANNE ROAD

EX ROW

TURF REINFORCEMENT MAT (SPECIAL) 85 SQ YD

HEAVY DUTY EROSION CONTROL BLANKET, 290 SQ YD

PERIMETER EROSION BARRIER, 221 LF

PERIMETER EROSION BARRIER, 132 LF

HEAVY DUTY EROSION CONTROL BLANKET, 225 SQ YD

TURF REINFORCEMENT MAT (SPECIAL) 57 SQ YD

PR TEMP EASEMENT

15'

HEAVY DUTY EROSION CONTROL BLANKET, 290 SQ YD

PERIMETER EROSION BARRIER, 428 LF

PR ROW

EX ROW

INLET PROTECTION, SPECIAL

14 | 15+00 | 16 | 17 | 18 | 19

HEAVY DUTY EROSION CONTROL BLANKET, 260 SQ YD

TEMPORARY STOCK PILE LOCATION

STONE RIPRAP, CLASS A4

TURF REINFORCEMENT MAT (SPECIAL) 235 SQ YD

EX ROW

TURF REINFORCEMENT MAT (SPECIAL) 214 SQ YD

TEMPORARY DITCH CHECK (TYP)

PERIMETER EROSION BARRIER, 222 LF

PR ROW

HEAVY DUTY EROSION CONTROL BLANKET, 1,124 SQ YD

TURF REINFORCEMENT MAT (SPECIAL) 259 SQ YD

PERIMETER EROSION BARRIER, 710 LF

TEMPORARY STOCKPILE LOCATION

EX ROW

MATCHLINE STA 19+25

N

LEGEND

- HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A4
- WETLAND
- TURF REINFORCEMENT MAT (SPECIAL)
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TREE TRUNK PROTECTION; TREE PRUNING & TREE ROOT PRUNING
- INLET PROTECTION, SPECIAL

BRANCH OF PLUM CREEK

TURF REINFORCEMENT MAT (SPECIAL) 252 SQ YD

HEAVY DUTY EROSION CONTROL BLANKET, 732 SQ YD

PERIMETER EROSION BARRIER, 564 LF

EX ℄ DANNE ROAD

END PROJECT STA 25+00

TURF REINFORCEMENT MAT (SPECIAL) 230 SQ YD

PERIMETER EROSION BARRIER, 214 LF

PR ROW

HEAVY DUTY EROSION CONTROL BLANKET, 250 SQ YD

STABILIZED CONSTRUCTION ENTRANCE, 100 SQ YD

20+00 | 21 | 22 | 23 | 24 | 25+00

STONE RIPRAP, CLASS A4

MATCHLINE STA 19+25

STABILIZED CONSTRUCTION ENTRANCE, 100 SQ YD

TURF REINFORCEMENT MAT (SPECIAL) 276 SQ YD

STONE RIPRAP CLASS A4

PERIMETER EROSION BARRIER, 210 LF

PERIMETER EROSION BARRIER, 826 LF

PERIMETER EROSION BARRIER, 210 LF

TURF REINFORCEMENT MAT (SPECIAL) 129 SQ YD

HEAVY DUTY EROSION CONTROL BLANKET, 324 SQ YD

TEMPORARY DITCH CHECK (TYP)

TEMPORARY STOCKPILE LOCATION

INLET PROTECTION, SPECIAL

HEAVY DUTY EROSION CONTROL BLANKET, 1,730 SQ YD

PR ROW

0 20' 40'

GRAPHIC SCALE

DATE PLOTTED = 8/9/2019 10:39:29 AM
PEN TABLE = $PENTBL$
REF FILES = $REFFILES$
FILE NAME = N:\PROJ\60220195.00-60220195.02\Design\Eros_Lndscp\60220195.02-ErosControlB1.dgn

ENGINEERING CONSULTANT

Clorba Group, Inc.
CONSULTING ENGINEERS
9507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@clorba.com

USER NAME = lmattson	DESIGNED - JX	REVISED -
	DRAWN - DDS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JX	REVISED -
PLOT DATE = 8/9/2019	DATE - 8/9/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. 14+00 | TO STA. 25+00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	15
				61F15
	ILLINOIS FED. AID PROJECT			

BEGIN PROJECT
STA 14+20

EX ℄ DANNE ROAD

SEEDING CLASS 4A, 0.08 AC

TOPSOIL EXCAVATION AND PLACEMENT, 125 CU YD

EX ROW

PR TEMP EASEMENT

TOPSOIL EXCAVATION AND PLACEMENT, 94 CU YD

SEEDING CLASS 4A, 0.06 AC

TOPSOIL EXCAVATION AND PLACEMENT, 120 CU YD
W/ SEEDING CLASS 4A, 0.07 AC

TOPSOIL EXCAVATION AND
PLACEMENT, 48 CU YD
W/ SEEDING CLASS 4B, 0.03 AC

PR ROW

EX ROW

14 | 15+00 | 16 | 17 | 18 | 19

MATCHLINE STA 19+25

N

TEMPORARY STOCK PILE LOCATION

SEEDING CLASS 4A, 0.10 AC

TOPSOIL EXCAVATION AND PLACEMENT, 158 CU YD

EX ROW

PR ROW

TOPSOIL EXCAVATION AND
PLACEMENT, 266 CU YD
W/SEEDING CLASS 4A, 0.17 AC

TOPSOIL EXCAVATION AND
PLACEMENT, 194 CU YD
W/SEEDING CLASS 4B, 0.12 AC

TEMPORARY STOCKPILE LOCATION

EX ROW

LEGEND

- TOPSOIL EXCAVATION AND PLACEMENT W/ SEEDING CLASS 4A
- TOPSOIL EXCAVATION AND PLACEMENT W/ SEEDING CLASS 4B
- WETLAND

NOTE: ALL GINKO TREES SHALL BE MALE ONLY

1. TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
2. TREE, CRATAEGUS VIRDIS WINTER KING (WINTER KING GREEN HAWTHORN) 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
3. TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC) 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
4. TREE, GINKO BILOBA, (GINKO) 2-1/2" CALIPER, BALLED AND BURLAPPED

BRANCH OF
PLUM CREEK

TOPSOIL EXCAVATION AND PLACEMENT
W/SEEDING CLASS 4A, 328 CU YD

SEEDING CLASS 4A, 0.23 AC

EX ℄ DANNE ROAD

END PROJECT
STA 25+00

TOPSOIL EXCAVATION AND PLACEMENT, 160 CU YD

SEEDING CLASS 4A, 0.10 AC

PR ROW

EROSION CONTROL BLANKET, 250 SQ YD

SEEDING CLASS 4A, 0.10 AC

MATCHLINE STA 19+25

20+00 | 21 | 22 | 23 | 24 | 25+00

TOPSOIL EXCAVATION AND PLACEMENT, 151 CU YD

TOPSOIL EXCAVATION AND PLACEMENT, 194 CU YD
W/SEEDING CLASS 4B, 0.12AC

TOPSOIL EXCAVATION AND PLACEMENT, 468 CU YD
W/SEEDING CLASS 4A, 0.12 AC

50' Dr

TEMPORARY STOCKPILE LOCATION

PR ROW

0 20' 40'
GRAPHIC SCALE

DATE PLOTTED = 8/9/2019 10:01:02 AM
PEN TABLE = $PENTBL$
PLOT DRIVER = $PLOTDRV$
FILE NAME = N:\PROJ\80220195.80\80220195.82\Design\Eros_Lndsc\80220195.82-Lndsc01.dgn

ENGINEERING CONSULTANT			
Ciorba Group, Inc. CONSULTING ENGINEERS 2507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com	USER NAME = lmattson	DESIGNED - JX	REVISED -
		DRAWN - DDS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JX	REVISED -
	PLOT DATE = 8/9/2019	DATE - 8/9/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. 14+00 | TO STA. 25+00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	16
				61F15
		ILLINOIS	FED. AID PROJECT	

EROSION CONTROL AND LANDSCAPING NOTES:

1. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

2. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.

3. PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.

4. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

5. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN FOURTEEN (14) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.

6. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES).

7. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

8. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF WILL COUNTY.

9. CLEANING OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT POSSIBLE.

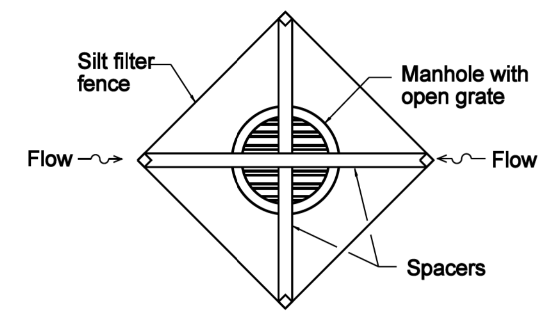
10. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKY EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

11. ALL PERMANENT SEEDING SHALL BE FERTILIZED WITH NITROGEN, AND POTASSIUM FERTILIZER NUTRIENTS IN ACCORDANCE WITH SECTION 250 OF THE STANDARD SPECIFICATIONS.

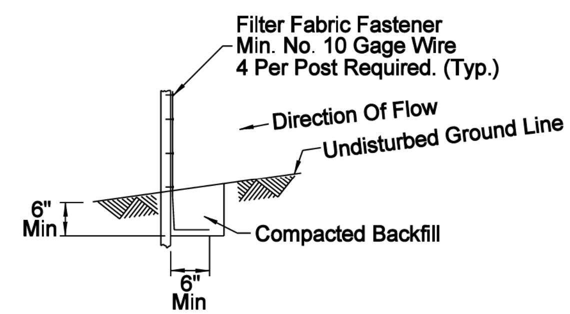
12. CONTRACTOR SHALL PROVIDE AN INSTREAM WORK PLAN FOR REVIEW BY THE RESIDENT ENGINEER AND WRITTEN APPORVAL BY THE ARMY CORPS PRIOR TO STARTING ANY IN-STREAM WORK. ANY CONSTRUCTION WORKS ASSOCIATED WITH IN-STREAM PLAN WILL BE INCLUDED IN RIP RAP COSTS, AND WILL NOT BE PAID SEPARATELY. THE IN-STREAM WORKS INCLUDE, BUT NOT LIMITED TO, FLOW DIVERSION, DE-WATERING AND TEMPORARY COFFERDAM INSTALLATION.

13. THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED OR PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

INLET PROTECTION (SPECIAL)

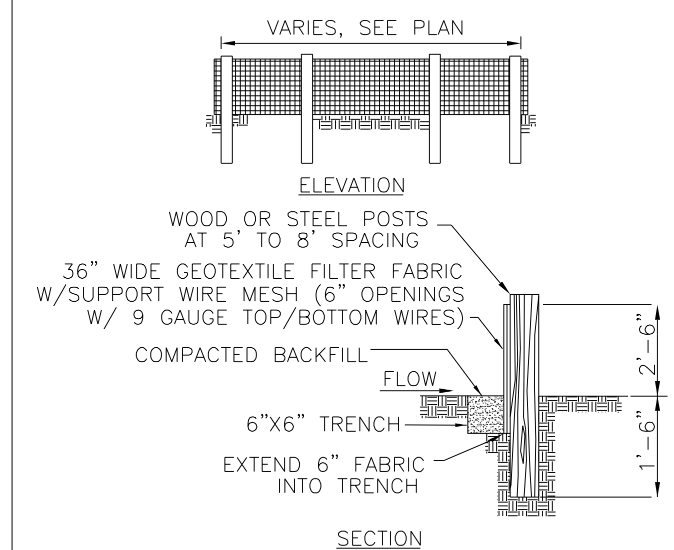


INLET AND PIPE PROTECTION

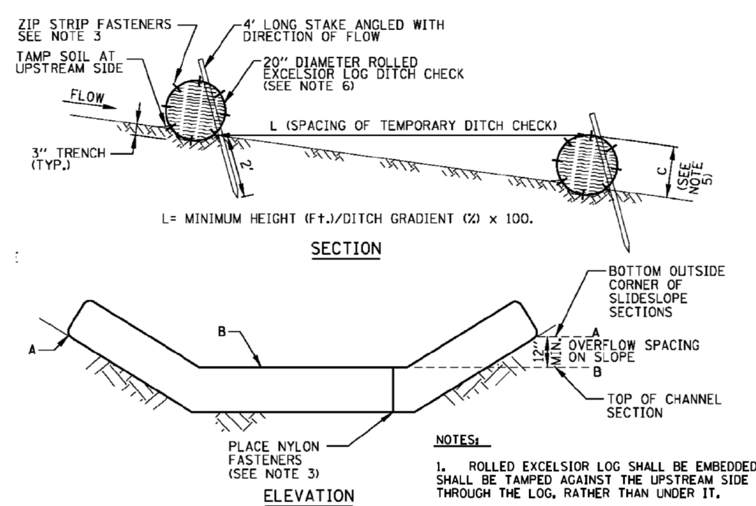


PERIMETER EROSION BARRIER

FILTER FABRIC FENCE
OVERLAND FLOW APPLICATION



- SUPPORT WIRE MESH MAY BE OMITTED IF A MAXIMUM POST SPACING OF 5 FEET IS PROVIDED.
- SEDIMENT TRAPPED BY THE FENCE SHALL BE REMOVED (AND PROPERLY DISPOSED OF) WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
- BARRIERS SHALL BE MAINTAINED IN PLACE UNTIL THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED AND UNTIL THE OWNER AUTHORIZES REMOVAL.



NOTES:

1. ROLLED EXCELSIOR LOG SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3" AND SOIL SHALL BE TAMPED AGAINST THE UPSTREAM SIDE TO ASSURE THAT STORM WATER IS FORCED THROUGH THE LOG, RATHER THAN UNDER IT.

2. STAKES SHALL BE 4' LONG, DRIVEN AT A SPACING OF 2' ON CENTER, 2' INTO THE GROUND. STAKES SHALL BE ENTWINED WITH THE MESH COVERING OF THE ROLL ON THE DOWNSTREAM SIDE AND ANGLED WITH THE DIRECTION OF FLOW. WOOD STAKES TO BE A MINIMUM OF 1" SQUARE. METAL STAKES SHALL BE A MINIMUM OF 1" DIAMETER.

3. WHEN MORE THAN ONE LOG IS REQUIRED TO SPAN THE DITCH, BUTT LOGS TIGHTLY TOGETHER END TO END AND FASTEN TOGETHER WITH A MINIMUM OF EIGHT EQUALLY SPACED ZIP STRIP NYLON FASTENERS.

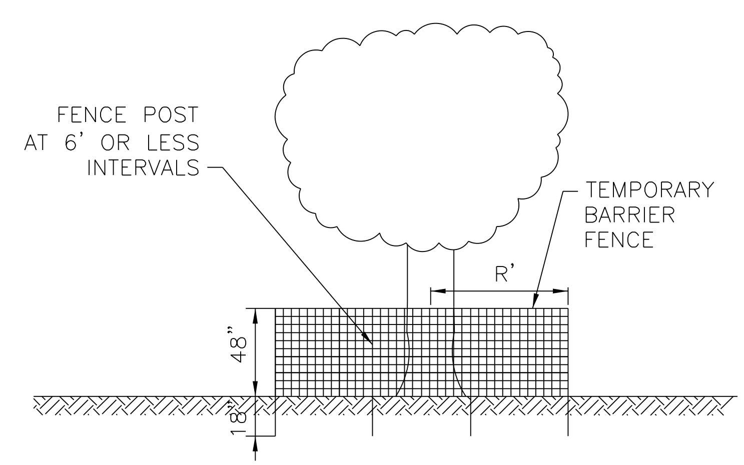
4. ROLLED EXCELSIOR LOG DITCH CHECKS ARE SUPPLIED IN STANDARD 10 FOOT LENGTHS AND SHOULD NOT BE CUT.

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF ROLL HEIGHT. WHEN EXCELSIOR LOG HEIGHT BECOMES LESS THAN 10", IT SHALL BE REPLACED.

6. TEMPORARY DITCH CHECK TO BE USED TO CONTROL FLOW IN DITCHES. THE DITCH CHECK IS NOT A SUBSTITUTE FOR SEDIMENT TRAPS OR BASINS. PLACE UPSTREAM OF TRAPS OR BASINS AND MAINTAIN IN PLACE UNTIL SEEDING IS ESTABLISHED.

TEMPORARY DITCH CHECK

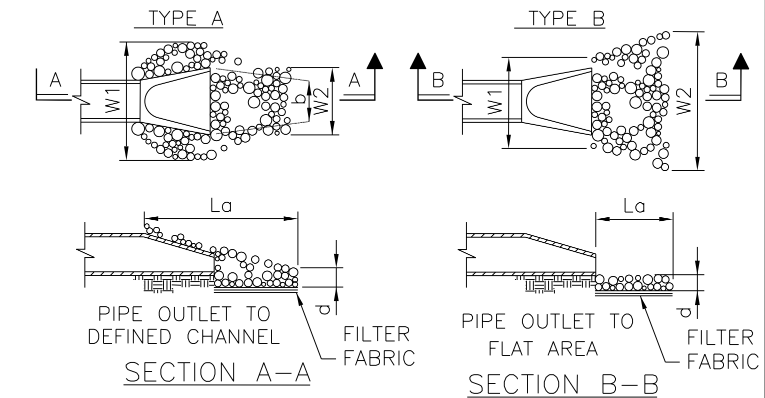
TREE TRUNK PROTECTION



- FENCE LOCATION RADIUS TO BE 1 FOOT FOR EACH 1-INCH DIAMETER OF TREE CALIPER, AS MEASURED 4 FEET ABOVE GROUND (MIN. 8 FOOT RADIUS).

- BARRIER FENCE TO BE 48-INCH-HIGH SNOW FENCE WITH WOOD OR METAL POSTS AT 6 FEET OR LESS INTERVALS AND ANCHORED AT LEAST 18 INCHES INTO GROUND.

OUTLET PROTECTION DETAIL RIPRAP APRON

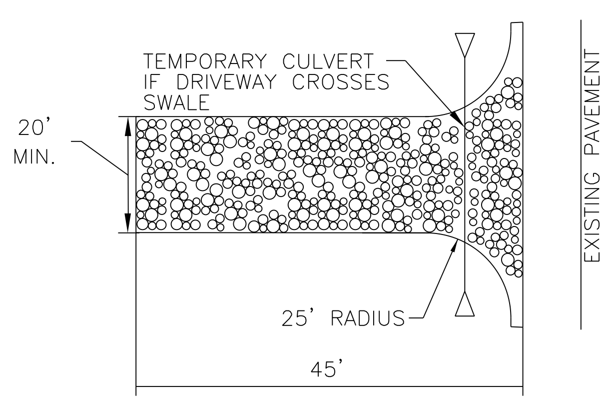


- FURNISH FILTER FABRIC PER SECTION 282 OF THE STANDARD SPECIFICATIONS. 2' TURN DOWN NOT SHOWN.
- PROVIDE BEDDING STONE (NOT SHOWN) PER SECTION 281 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION FOR PLACEMENT OF RIPRAP WILL NOT BE MEASURED FOR PAYMENT

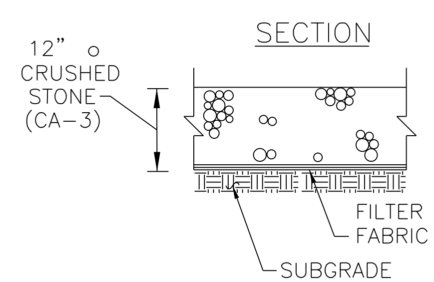
STR. #	PIPE SIZE	TYPE	La	W1	W2	d
	18"	RR 4	16'	9'	11.5'	20"
	24"	RR 4	20'	10'	12.5'	20"
	8"	RR 3	10'	3'	6'	10"

STABILIZED CONSTRUCTION ENTRANCE

PLAN



SECTION



DATE PLOTTED = 8/27/2018 7:16:49 PM
PEN TABLE = $PENTBLS$
PLOT CONFIG = $PLTDRVL$
FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Eros_Lndscp\0020195.02-Erosion Control Notes.dgn

ENGINEERING CONSULTANT	USER NAME = mdaboub	DESIGNED - JX	REVISED -
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com		DRAWN - DDS	REVISED -
	PLOT SCALE = 109.0909 ' / in.	CHECKED - JX	REVISED -
	PLOT DATE = 8/27/2018	DATE - 8/27/2018	REVISED -

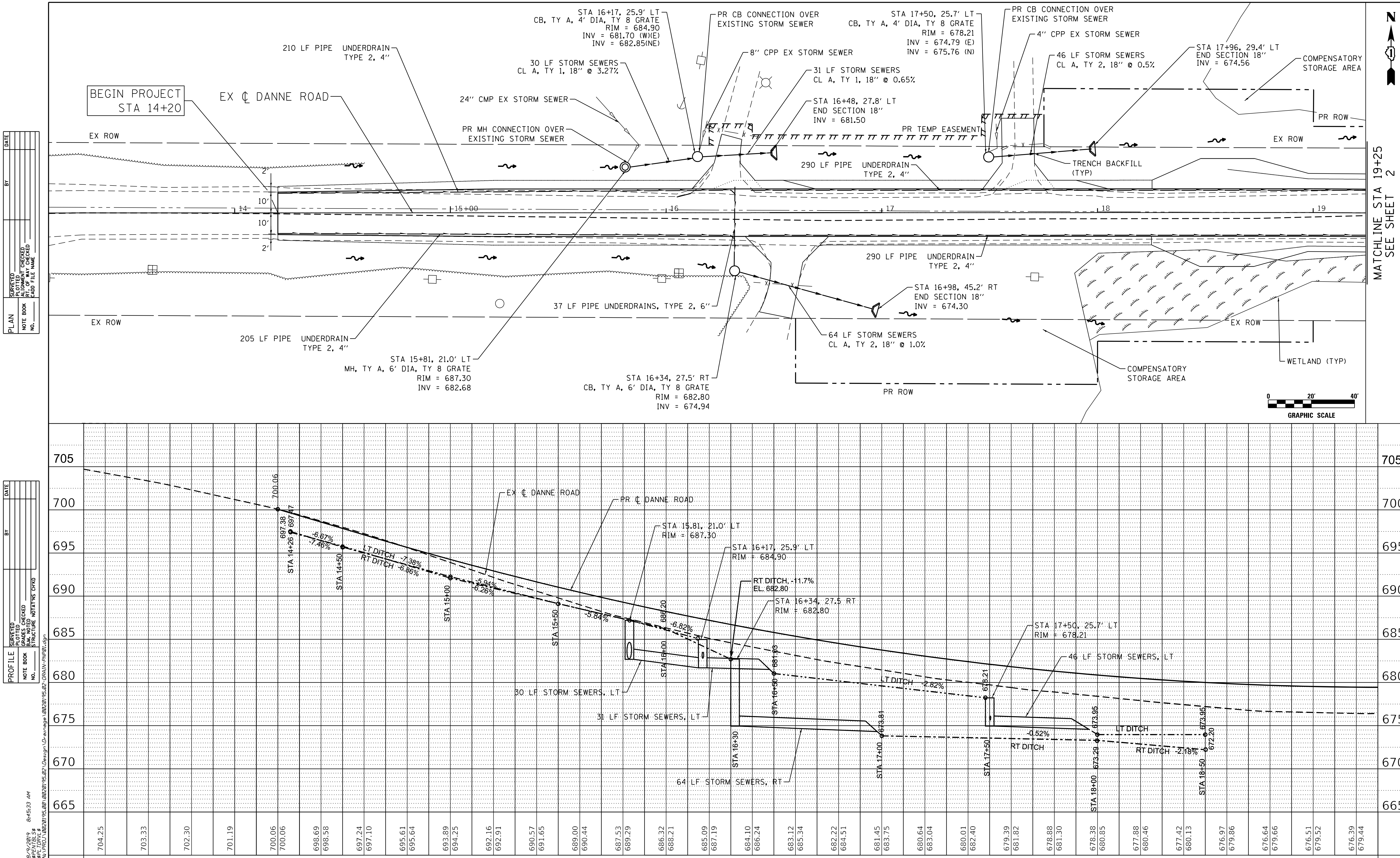
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

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

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	18
				61F15

ILLINOIS FED. AID PROJECT



BEGIN PROJECT
STA 14+20
EX ℄ DANNE ROAD
EX ROW
PR ROW
210 LF PIPE UNDERDRAIN TYPE 2, 4''
30 LF STORM SEWERS CL A, TY 1, 18'' @ 3.27%
24'' CMP EX STORM SEWER
PR MH CONNECTION OVER EXISTING STORM SEWER
STA 16+17, 25.9' LT
CB, TY A, 4' DIA, TY 8 GRATE
RIM = 684.90
INV = 681.70 (W)(E)
INV = 682.85(NE)
PR CB CONNECTION OVER EXISTING STORM SEWER
8'' CPP EX STORM SEWER
31 LF STORM SEWERS CL A, TY 1, 18'' @ 0.65%
STA 16+48, 27.8' LT
END SECTION 18''
INV = 681.50
PR TEMP EASEMENT
STA 17+50, 25.7' LT
CB, TY A, 4' DIA, TY 8 GRATE
RIM = 678.21
INV = 674.79 (E)
INV = 675.76 (N)
PR CB CONNECTION OVER EXISTING STORM SEWER
4'' CPP EX STORM SEWER
46 LF STORM SEWERS CL A, TY 2, 18'' @ 0.5%
STA 17+96, 29.4' LT
END SECTION 18''
INV = 674.56
COMPENSATORY STORAGE AREA
290 LF PIPE UNDERDRAIN TYPE 2, 4''
TRENCH BACKFILL (TYP)
290 LF PIPE UNDERDRAIN TYPE 2, 4''
STA 16+98, 45.2' RT
END SECTION 18''
INV = 674.30
37 LF PIPE UNDERDRAINS, TYPE 2, 6''
205 LF PIPE UNDERDRAIN TYPE 2, 4''
STA 15+81, 21.0' LT
MH, TY A, 6' DIA, TY 8 GRATE
RIM = 687.30
INV = 682.68
64 LF STORM SEWERS CL A, TY 2, 18'' @ 1.0%
STA 16+34, 27.5' RT
CB, TY A, 6' DIA, TY 8 GRATE
RIM = 682.80
INV = 674.94
WETLAND (TYP)
COMPENSATORY STORAGE AREA
MATCHLINE STA 19+25 SEE SHEET 2
N
0 20' 40'
GRAPHIC SCALE
14 15+00 16 17 18 19
10' 10' 2' 2'
705 700 695 690 685 680 675 670 665
EX ℄ DANNE ROAD
PR ℄ DANNE ROAD
STA 15.81, 21.0' LT
RIM = 687.30
STA 16+17, 25.9' LT
RIM = 684.90
RT DITCH, -11.7%
EL. 682.80
STA 16+34, 27.5 RT
RIM = 682.80
STA 17+50, 25.7' LT
RIM = 678.21
46 LF STORM SEWERS, LT
30 LF STORM SEWERS, LT
31 LF STORM SEWERS, LT
64 LF STORM SEWERS, RT
LT DITCH -7.38%
RT DITCH -6.86%
-6.67%
-7.46%
-5.94%
-6.26%
-5.84%
-6.82%
LT DITCH -2.82%
-0.52%
LT DITCH
RT DITCH
RT DITCH -2.18%
700.06
697.38
697.47
STA 14+26
STA 14+50
STA 15+00
STA 15+50
STA 16+00
686.20
STA 16+30
681.03
STA 16+50
673.81
STA 17+00
678.21
STA 17+50
673.95
673.29
STA 18+00
673.95
672.20
STA 18+50
704.25 703.33 702.30 701.19 700.06 700.06 698.69 698.58 697.24 697.10 695.61 695.64 693.89 694.25 692.16 692.91 690.57 691.65 689.00 690.44 687.53 689.29 686.32 688.21 685.09 687.19 684.10 686.24 683.12 685.34 682.22 684.51 681.45 683.75 680.64 683.04 680.01 682.40 679.39 681.82 678.88 681.30 678.38 680.85 677.88 680.46 677.42 680.13 676.97 679.86 676.64 679.66 676.51 679.52 676.39 679.44
13+50 14+00 14+50 15+00 15+50 16+00 16+50 17+00 17+50 18+00 18+50 19+00
PLAN
PROFILE

ENGINEERING CONSULTANT

Ciorba Group, Inc.
CONSULTING ENGINEERERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = lmattson	DESIGNED - JX	REVISED -	
	DRAWN - DDS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JX	REVISED -	
PLOT DATE = 8/9/2019	DATE - 8/9/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

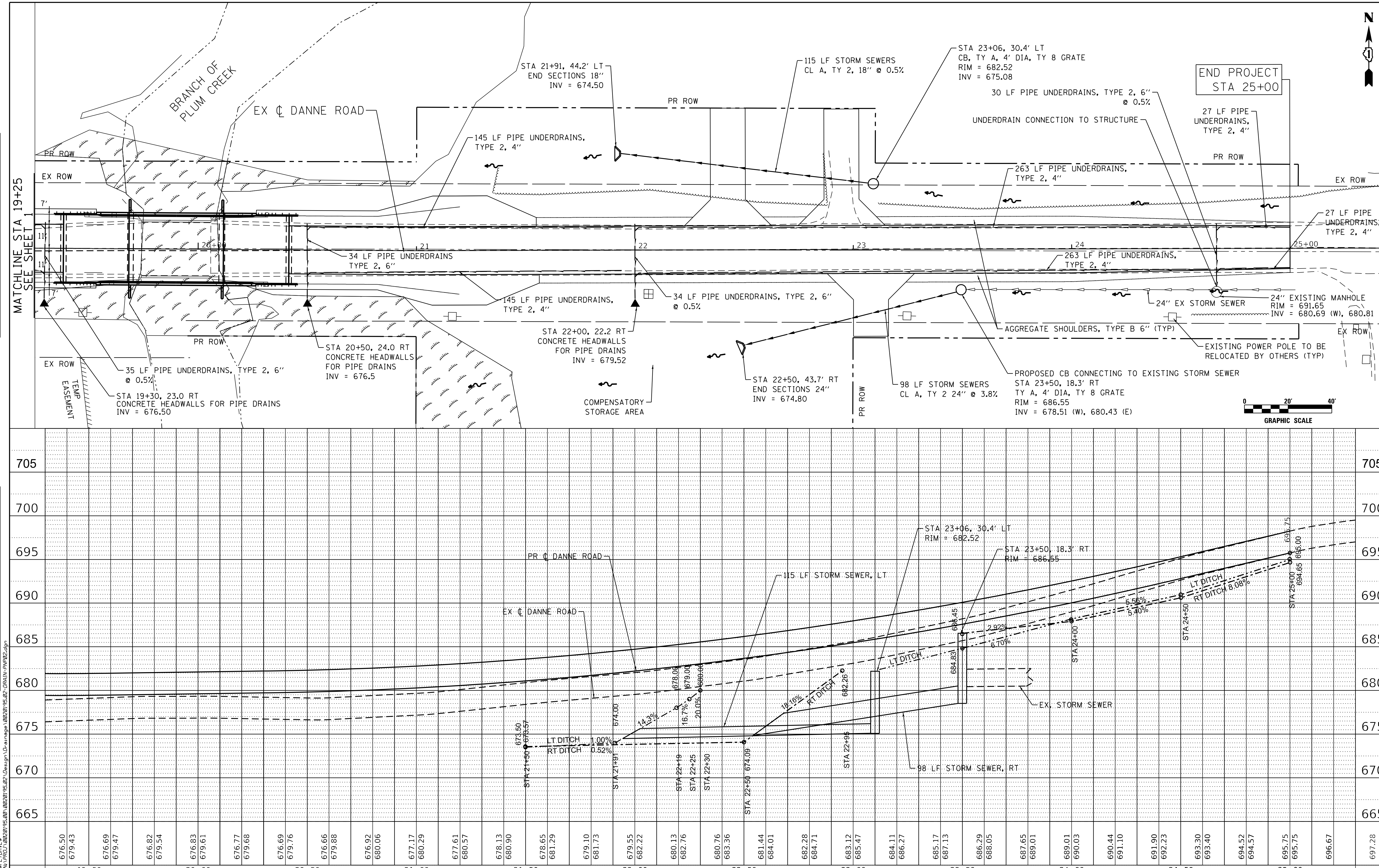
DRAINAGE PLAN AND PROFILE

SCALE: 1'' = 20' | SHEET NO. 1 OF 2 SHEETS | STA. 14+00 TO STA. 19+25

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	19
		CONTRACT		61F15

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

DATE PLOTTED = 8/9/2019 8:45:33 AM
PEN TABLE = $PENTBL$
PLOT CONFIG = $PLTDRV$
FILE NAME = N:\PROJ\00201\95.00\00201\95.02\Design\Drainage\00201\95.02-DRAIN-PNP01.dgn



MATCHLINE STA 19+25
SEE SHEET 1
BRANCH OF PLUM CREEK
EX ℄ DANNE ROAD
PR ROW
EX ROW
TEMP EASEMENT
STA 21+91, 44.2' LT
END SECTIONS 18"
INV = 674.50
115 LF STORM SEWERS
CL A, TY 2, 18" @ 0.5%
STA 23+06, 30.4' LT
CB, TY A, 4' DIA, TY 8 GRATE
RIM = 682.52
INV = 675.08
END PROJECT
STA 25+00
30 LF PIPE UNDERDRAINS, TYPE 2, 6" @ 0.5%
UNDERDRAIN CONNECTION TO STRUCTURE
27 LF PIPE UNDERDRAINS, TYPE 2, 4"
145 LF PIPE UNDERDRAINS, TYPE 2, 4"
263 LF PIPE UNDERDRAINS, TYPE 2, 4"
27 LF PIPE UNDERDRAINS, TYPE 2, 4"
34 LF PIPE UNDERDRAINS TYPE 2, 6"
263 LF PIPE UNDERDRAINS, TYPE 2, 4"
145 LF PIPE UNDERDRAINS, TYPE 2, 4"
34 LF PIPE UNDERDRAINS, TYPE 2, 6" @ 0.5%
24" EX STORM SEWER
24" EXISTING MANHOLE
RIM = 691.65
INV = 680.69 (W), 680.81 (E)
STA 22+00, 22.2 RT
CONCRETE HEADWALLS
FOR PIPE DRAINS
INV = 679.52
AGGREGATE SHOULDERS, TYPE B 6" (TYP)
EXISTING POWER POLE TO BE RELOCATED BY OTHERS (TYP)
STA 20+50, 24.0 RT
CONCRETE HEADWALLS
FOR PIPE DRAINS
INV = 676.5
35 LF PIPE UNDERDRAINS, TYPE 2, 6" @ 0.5%
STA 19+30, 23.0 RT
CONCRETE HEADWALLS FOR PIPE DRAINS
INV = 676.50
COMPENSATORY STORAGE AREA
STA 22+50, 43.7' RT
END SECTIONS 24"
INV = 674.80
98 LF STORM SEWERS
CL A, TY 2 24" @ 3.8%
PROPOSED CB CONNECTING TO EXISTING STORM SEWER
STA 23+50, 18.3' RT
TY A, 4' DIA, TY 8 GRATE
RIM = 686.55
INV = 678.51 (W), 680.43 (E)
GRAPHIC SCALE
0 20' 40'
N
21 22 23 24 25+00 20+00
PR ℄ DANNE ROAD
EX ℄ DANNE ROAD
115 LF STORM SEWER, LT
STA 23+06, 30.4' LT
RIM = 682.52
STA 23+50, 18.3' RT
RIM = 686.55
EX. STORM SEWER
98 LF STORM SEWER, RT
LT DITCH 1.00%
RT DITCH 0.52%
14.3%
16.7%
20.0%
18.16%
RT DITCH
LT DITCH
2.92%
6.70%
5.56%
5.40%
LT DITCH
RT DITCH 8.08%
673.50 673.57 STA 21+50
674.00 STA 21+91
678.00 STA 22+19
679.00 STA 22+25
680.00 STA 22+30
674.09 STA 22+50
682.26 STA 22+95
686.45 684.83
STA 24+00
STA 24+50
696.75 696.00 694.65 STA 25+00
705 700 695 690 685 680 675 670 665
676.50 679.43
676.69 679.47
676.82 679.54
676.83 679.61
676.77 679.68
676.69 679.76
676.66 679.88
676.92 680.06
677.17 680.29
677.61 680.57
678.13 680.90
678.65 681.29
679.10 681.73
679.55 682.22
680.13 682.76
680.76 683.36
681.44 684.01
682.28 684.71
683.12 685.47
684.11 686.27
685.17 687.13
686.29 688.05
687.65 689.01
689.01 690.03
690.44 691.10
691.90 692.23
693.30 693.40
694.52 694.57
695.75 695.75
696.67
697.28
19+50 20+00 20+50 21+00 21+50 22+00 22+50 23+00 23+50 24+00 24+50 25+00
PLAN
PROFILE
NOTE BOOK NO.
SURVEYED PLOTTED ALIGNMENT CHECKED R/T OF WAY CHECKED CADD FILE NAME
SURVEYED PLOTTED GRADES CHECKED BM NOTED STRUCTURE NOTATI'NS CHK'D
BY DATE

ENGINEERING CONSULTANT	USER NAME = lmattson	DESIGNED - JX	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com		DRAWN - DDS	REVISED -			221	13-02113-01-BR	WILL	56	20
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JX	REVISED -					CONTRACT		61F15
	PLOT DATE = 8/9/2019	DATE - 8/9/2019	REVISED -		SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 19+25 TO STA. 25+04	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

DATE PLOTTED = 8/9/2019 8:45:35 AM
PEN TABLE = $PENTBL$
PLOT CONFIG = $PLTDRV$
FILE NAME = N:\PROJ\0020\95.00\0020\95.02\Design\Drainage\0020\95.02-DRAIN-PNP02.dgn

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	4	1
F.H.W.A. REQ.	ILLINOIS	PROJECT	R-91-026-17	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAT OF HIGHWAYS

ROUTE: DANNE ROAD OVER BRANCH OF PLUM CREEK

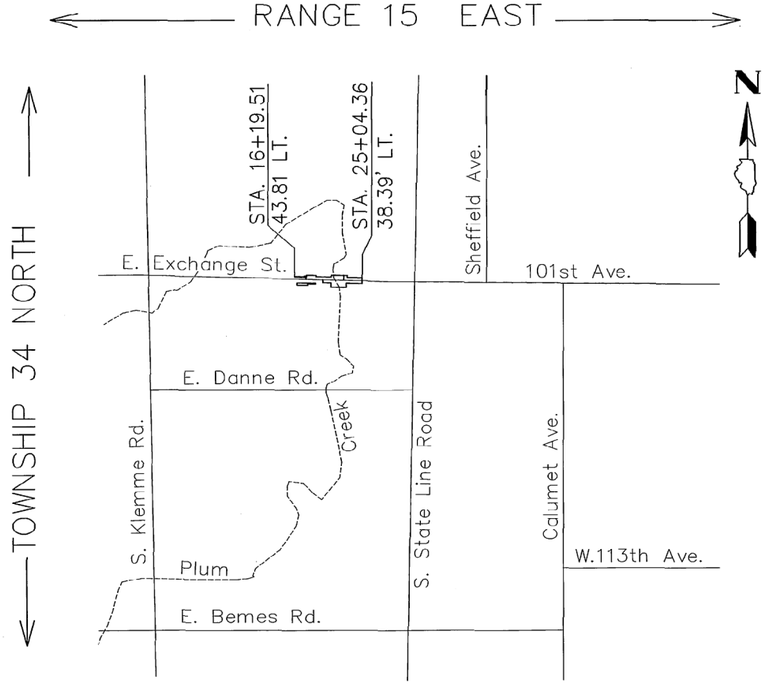
SECTION: 13-02113-01-BR

COUNTY: WILL

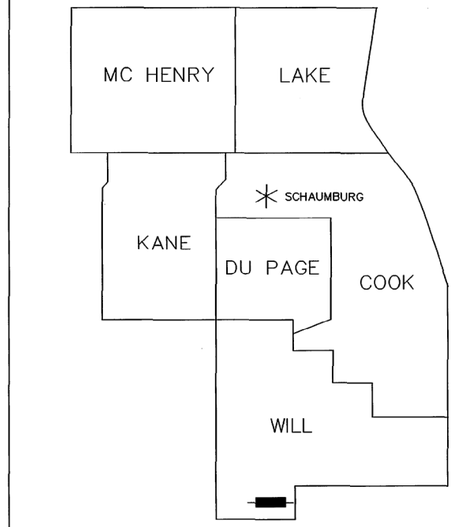
LIMITS:

PROJECT NO. R-91-026-17

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1WC0001TE	Thomas J. Kennedy, as Trustees under Trust Agreement dated the 25th day of March, 2011, known as the Kenco Trust Number Three.	2	
1WC0002	Michael J. Liccar and Debra S. Liccar Husband and Wife, As Tenants by the Entirety.	2	
1WC0003 1WC0003TE	Terry H. LaMastus and Karen M. Askounis, as Trustees of Terry H. Lamastus and Karen M. Askounis Trust, dated September 5, 2012.	2, 3 & 4 2, 3 & 4	
1WC0004	Lino Casillas and Silva Casillas, as Tenants by the Entirety.	3 & 4	
1WC0005	Susan S. Cobbins	3 & 4	



LOCATION MAP
Not to Scale



DISTRICT HEADQUARTERS: - ✳

LOCATION OF SECTION INDICATED THUS: - ▬

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ASM Consultants, Inc.
16 E Wilson St, Batavia IL 60510
Tel (630) 879-0200 Fax (630) 454-3774
advanced@advct.com
Professional Design Firm #184-006014 expires 4/30/2019

ASM PROJECT NO. 777-015

SHEET 1 OF 4 SHEETS

IDOT USE ONLY

DATE PLOTTED = 8/27/2018 7:16:55 PM
PEN TABLE = $PENTBL$
RELOAD LINK = $RELOAD$
FILE NAME = N:\PROJ\80220195.00\80220195.02\Design\Plats\80220195.02-plat-01.dgn

ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4069 Fax 773.775.4014
Email chicago@clorba.com

USER NAME = mdaboub	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/27/2018	DATE - 8/27/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
PLAT OF HIGHWAYS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	21
		CONTRACT	61F15	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

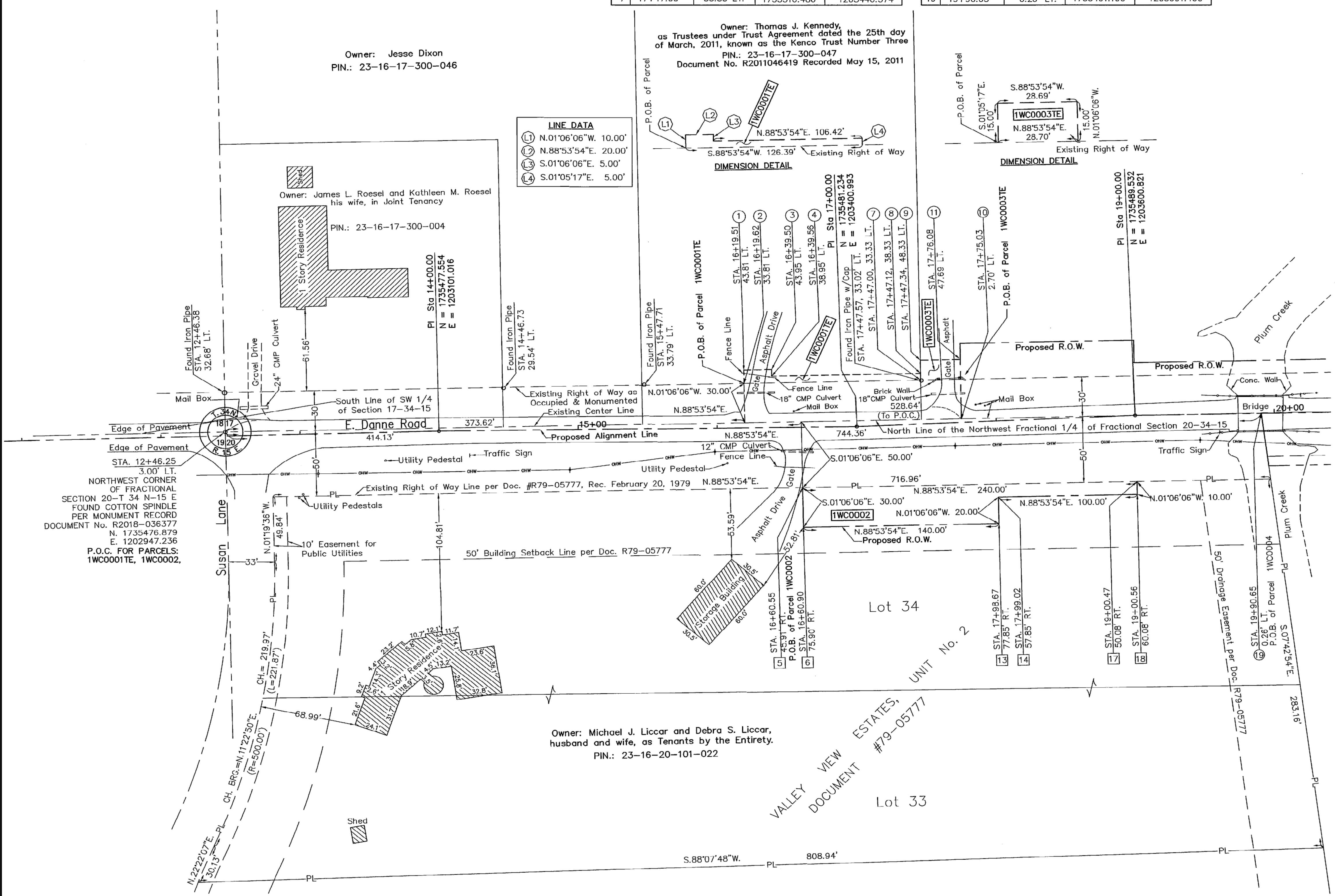
PARTS OF THE SW 1/4 OF SECTION 17, AND NW FRACTIONAL 1/4 OF FRACTIONAL SECTION 20, TWP. 34 N., R. 15 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1WC0001TE	5.000	0	0.138	5.000	0.017	731.7	23-16-17-300-047
1WC0002	4.929	0.119	0	4.810			23-16-20--101-022
1WC0003 1WC0003TE	22.861	0.595	0.338	22.266	0.010	430.4	23-16-17-300-044

COORDINATE TABLE

STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011 ADJUSTMENT)

PT.	STATION	OFFSET	NORTH	EAST
1	16+19.51	43.81 LT.	1735524.053	1203319.967
2	16+19.62	33.81 LT.	1735514.056	1203320.206
3	16+39.50	43.95 LT.	1735524.438	1203339.964
4	16+39.56	38.95' LT.	1735519.439	1203340.083
5	16+60.55	45.91' RT.	1735434.847	1203362.111
6	16+60.90	75.90' RT.	1735404.855	1203446.574
7	17+47.00	33.33 LT.	1735516.486	1203446.574
8	17+47.12	38.33 LT.	1735521.485	1203446.479
9	17+47.34	48.33 LT.	1735531.483	1203446.289
10	17+75.03	2.70' LT.	1735487.043	1203475.842
11	17+76.08	47.69 LT.	1735532.036	1203475.033
13	17+98.67	77.85' RT.	1735407.547	1203502.804
14	17+99.02	57.85' RT.	1735427.542	1203502.326
15	18+99.79	56.91' LT.	1735546.436	1203599.727
16	18+99.85	39.91 LT.	1735529.439	1203600.054
17	19+00.47	50.08' RT.	1735439.461	1203602.069
18	19+00.56	60.08' RT.	1735429.464	1203602.308
19	19+90.65	0.26' LT.	1735491.190	1203691.460



LEGEND

SECTION CORNER — QUARTER SECTION CORNER

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC EXISTING ACCESS CONTROL LINE
- AC PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

SCALE: 1" = 40'

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99998016. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

- ○ IRON PIPE OR ROD FOUND — ⊕ "MAG" OR "PK" NAIL SET OR FOUND
- + CUT CROSS FOUND OR SET — ● 5/8" REBAR SET

- ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
) SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184 6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 17 AND 20, TOWNSHIP 34 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT BATAVIA, ILLINOIS THIS 30th DAY OF AUGUST, 2018, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-3377
LICENSE EXPIRATION DATE: 11/30/2018.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CHARLES S. MARSHALL 035-003377 BATAVIA, ILLINOIS — PROFESSIONAL LAND SURVEYOR — STATE OF ILLINOIS

ADVANCED SURVEYING & MAPPING — Since 1984
ASM Consultants, Inc.
16 E Wilson St, Batavia IL 60510
Tel (630) 879-0200 Fax (630) 454-3774
advanced@advct.com
Professional Design Firm #184-006014 expires 4/30/2019

ASM PROJECT NO. 777-015

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DANNE ROAD OVER BRANCH OF PLUM CREEK

SECTION: 13-02113-01-BR — WILL COUNTY
PROJECT: R-91-026-17 — JOB NO.
STATION: — TO STATION:
SCALE: 1" = 40' — SHEET 2 OF 4

IDOT USE ONLY

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: 08/30/2018 — REVISION MADE BY: ASM Consultants, Inc. — Sheet Number 2

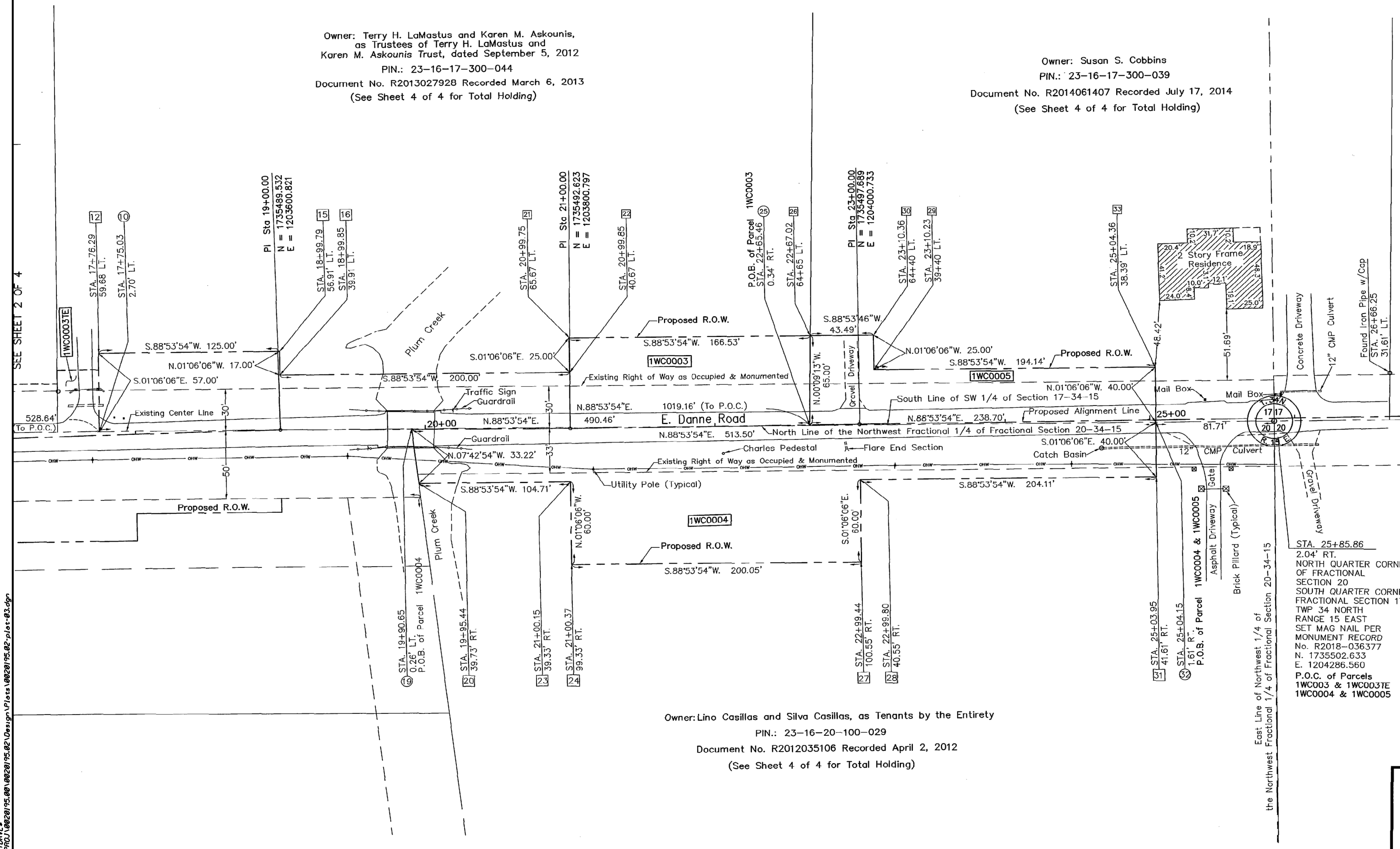
PARTS OF THE SW 1/4 OF SECTION 17, AND NW FRACTIONAL 1/4 OF FRACTIONAL SECTION 20, TWP. 34 N., R. 15 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1WC0003	22.861	0.595	0.338	22.266			23–16–17–300–044
1WC0003TE					0.010	430.4	
1WC0004	17.671	0.745	0.388	16.926			23–16–20–100–029
1WC0005	5.000	0.244	0.164	4.756			23–16–17–300–039

COORDINATE TABLE

STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011 ADJUSTMENT)

PT.	STATION	OFFSET	NORTH	EAST
10	17+75.03	2.70' LT.	1735487.043	1203475.842
12	17+76.29	59.68 LT.	1735544.033	1203474.746
15	18+99.79	56.91' LT.	1735546.436	1203599.727
16	18+99.85	39.91 LT.	1735529.439	1203600.054
17	19+00.47	50.08' RT.	1735439.461	1203602.069
18	19+00.56	60.08' RT.	1735429.464	1203602.308
19	19+90.65	0.26' LT.	1735491.190	1203691.460
20	19+95.44	39.73' RT.	1735451.286	1203696.866
21	20+99.75	65.67 LT.	1735558.280	1203799.535
22	20+99.85	40.67 LT.	1735533.285	1203800.015
23	21+00.15	39.33' RT.	1735453.299	1203801.553
24	21+00.37	99.33' RT.	1735393.310	1203802.707
25	22+65.46	0.34' RT.	1735496.473	1203966.209
26	22+67.02	64+65 LT.	1735561.482	1203966.128
27	22+99.44	100.55' RT.	1735397.157	1204002.718
28	22+99.80	40.55' RT.	1735457.145	1204001.565
29	23+10.23	39+40 LT.	1735537.322	1204009.998
30	23+10.36	64+40 LT.	1735562.318	1204009.517
31	25+03.95	41.61' RT.	1735461.070	1204205.635
32	25+04.15	1.61' RT.	1735501.062	1204204.866
33	25+04.36	38.39' LT.	1735541.055	1204204.097



LEGEND

Symbol	Meaning
9 10 / 16 15	SECTION CORNER
16 –+– 15	QUARTER SECTION CORNER
— — —	SECTION / QUARTER SECTION LINE
———	PLATTED LOT LINES
—℞—	PROPERTY (DEED) LINE
—APL—	APPARENT PROPERTY LINE
— - —	EXISTING CENTERLINE
— - —	PROPOSED CENTERLINE
— — —	EXISTING RIGHT OF WAY LINE
— - - —	PROPOSED RIGHT OF WAY LINE
— — —	EXISTING EASEMENT
— — —	PROPOSED EASEMENT
—AC—	EXISTING ACCESS CONTROL LINE
—AC—	PROPOSED ACCESS CONTROL LINE
129.32'	MEASURED DIMENSION
129.32' (COMP)	COMPUTED DIMENSION
(129.32')	RECORDED DIMENSION
hatched	EXISTING BUILDING

N

0 40 80

SCALE: 1" = 40'

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99998016. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

○ IRON PIPE OR ROD FOUND ⊕ "MAG" OR "PK" NAIL SET OR FOUND

\+ CUT CROSS FOUND OR SET ● 5/8" REBAR SET

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101–02 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
) SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184–6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 17 AND 20, TOWNSHIP 34 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT BATAVIA, ILLINOIS THIS 30th DAY OF AUGUST 2018, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035–3377
LICENSE EXPIRATION DATE: 11/30/2018.

CHARLES S. MARSHALL, STATE OF ILLINOIS, No. 035-003377, BATAVIA, PROFESSIONAL LAND SURVEYOR

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

ADVANCED SURVEYING & MAPPING, Since 1984

ASM Consultants, Inc.
16 E Wilson St, Batavia IL 60510
Tel (630) 879-0200 Fax (630) 454-3774
advanced@advct.com
Professional Design Firm #184-006014 expires 4/30/2019

ASM PROJECT NO. 777–015

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DANNE ROAD OVER BRANCH OF PLUM CREEK

SECTION: 13–02113–01–BR WILL COUNTY
PROJECT: R–91–026–17 JOB NO.
STATION: TO STATION:
SCALE: 1" = 40' SHEET 3 OF 4

IDOT USE ONLY

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: 08/30/2018 REVISION MADE BY: ASM Consultants, Inc. Sheet Number 3

ENGINEERING CONSULTANT	USER NAME = mdaboub	DESIGNED - MLD	REVISED -
Ciorba Group, Inc. CONSULTING ENGINEERS, 5507 North Cumberland Avenue, Suite 402, Chicago, Illinois 60656, Tel. 773.775.4009 Fax 773.775.4014, Email chicago@ciorba.com		DRAWN - DW	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - EPS	REVISED -
	PLOT DATE = 9/4/2018	DATE - 9/4/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
PLAT OF HIGHWAYS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

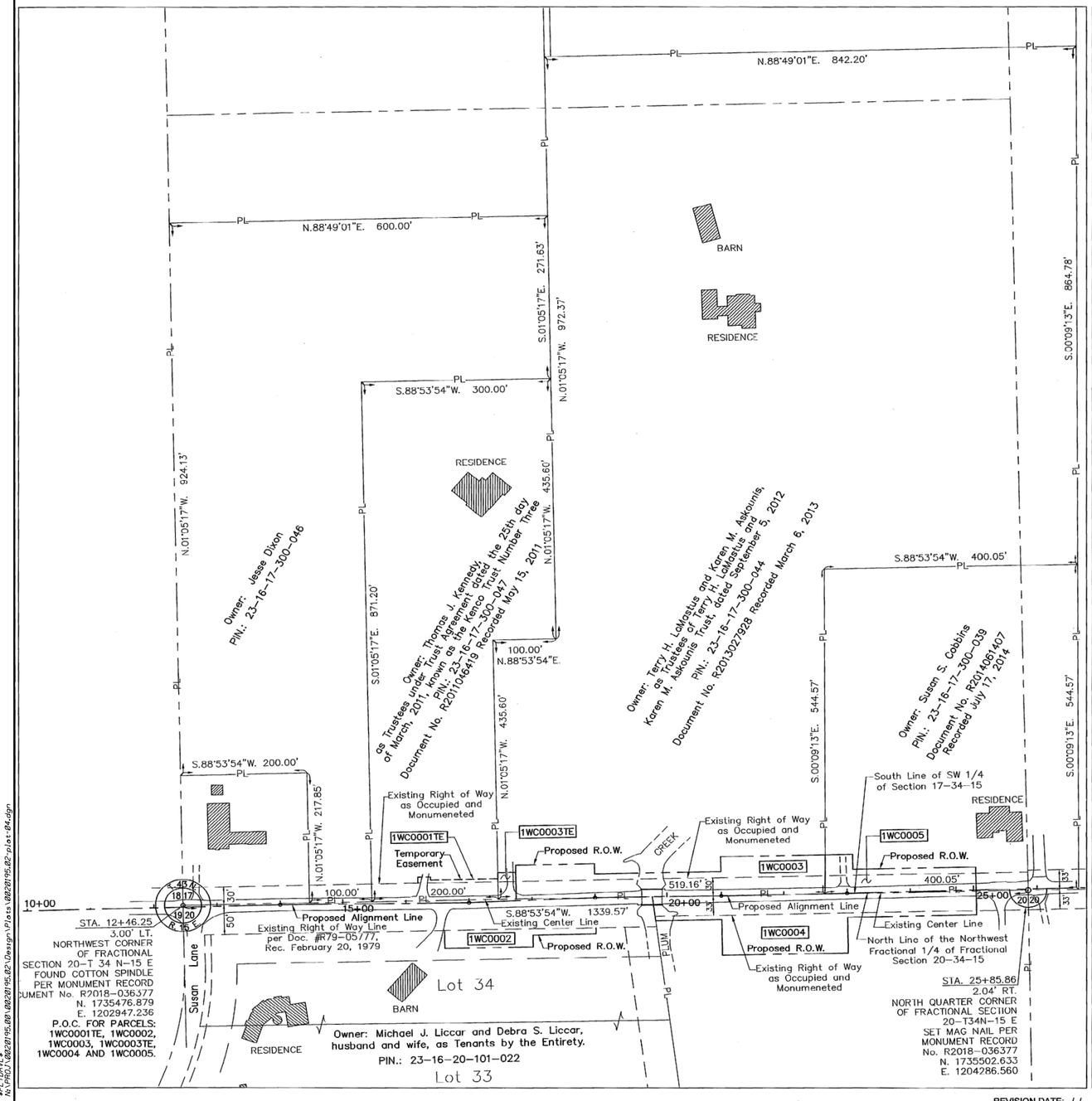
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	23
		CONTRACT		61F15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

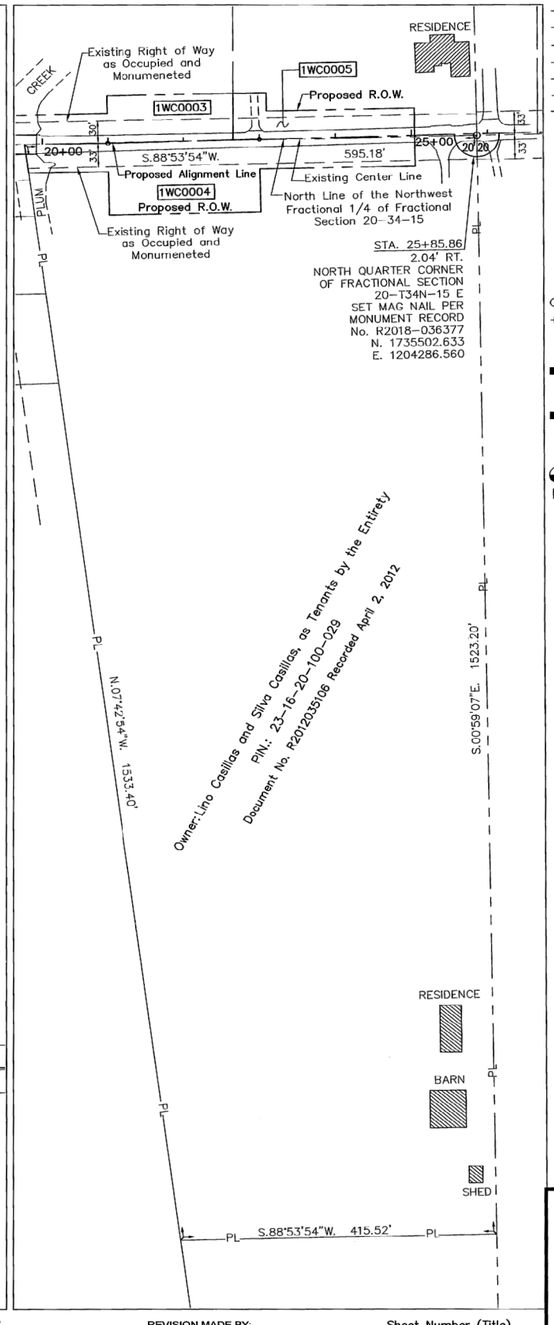
DATE PLOTTED = 9/4/2018 12:12:48 PM
PEN TABLE = $PENTBLS$
PLOT CONFIG = $PLTDRV$
FILE NAME = N:\PROJ\0820\95.001\0820\95.02\Design\Plats\082095.02-plat-03.dgn

PARTS OF THE SW 1/4 OF SECTION 17, AND NW FRACTIONAL 1/4 OF FRACTIONAL SECTION 20, TWP. 34 N., R. 15 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1WC0001TE	5.000	0	0.138	5.000	0.017	731.7	23-16-17-300-047
1WC0002	4.929	0.119	0	4.810			23-16-20--101-022
1WC0003 1WC0003TE	22.861	0.595	0.338	22.266	0.010	430.4	23-16-17-300-047

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1WC0004	17.671	0.745	0.388	16.926			23-16-20-100-029
1WC0005	5.000	0.244	0.164	4.756			23-16-17-300-039





LEGEND

SECTION CORNER (9 10 / 16 15) — QUARTER SECTION CORNER (16 — 15)

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PL — PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

N

0 100 200
SCALE: 1" = 100'

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99998016. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" OR "PK" NAIL SET OR FOUND
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET

- ■ **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ◔ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
) SS
COUNTY OF KANE)

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 17 AND 20, TOWNSHIP 34 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT BATAVIA, ILLINOIS THIS 31st DAY OF MAY 2018, A.D.

CHARLES S. MARSHALL — STATE OF — No. 035-003377 — BATAVIA — ILLINOIS — PROFESSIONAL LAND SURVEYOR

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-3377
LICENSE EXPIRATION DATE: 11/30/2018.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

ASM Consultants, Inc.
16 E Wilson St, Batavia IL 60510
Tel (630) 879-0200 Fax (630) 454-3774
advanced@advct.com
Professional Design Firm #184-006014 expires 4/30/2019

ASM PROJECT NO. 777-015

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DANNE ROAD OVER BRANCH OF PLUM CREEK

SECTION: 13-02113-01-BR WILL COUNTY
PROJECT: R-91-026-17 JOB NO.
STATION: TO STATION:
SCALE: 1" = 100' SHEET 4 OF 4

IDOT USE ONLY

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: / / REVISION MADE BY: Sheet Number (Title)

DATE PLOTTED = 8/27/2018 7:17:25 PM
PEN TABLE = $PENTBL$
PLOT SCALE = 1.0000
FILE NAME = N:\PROJ\0020195.80\0020195.82\Design\Plats\0020195.82-plat-04.dgn

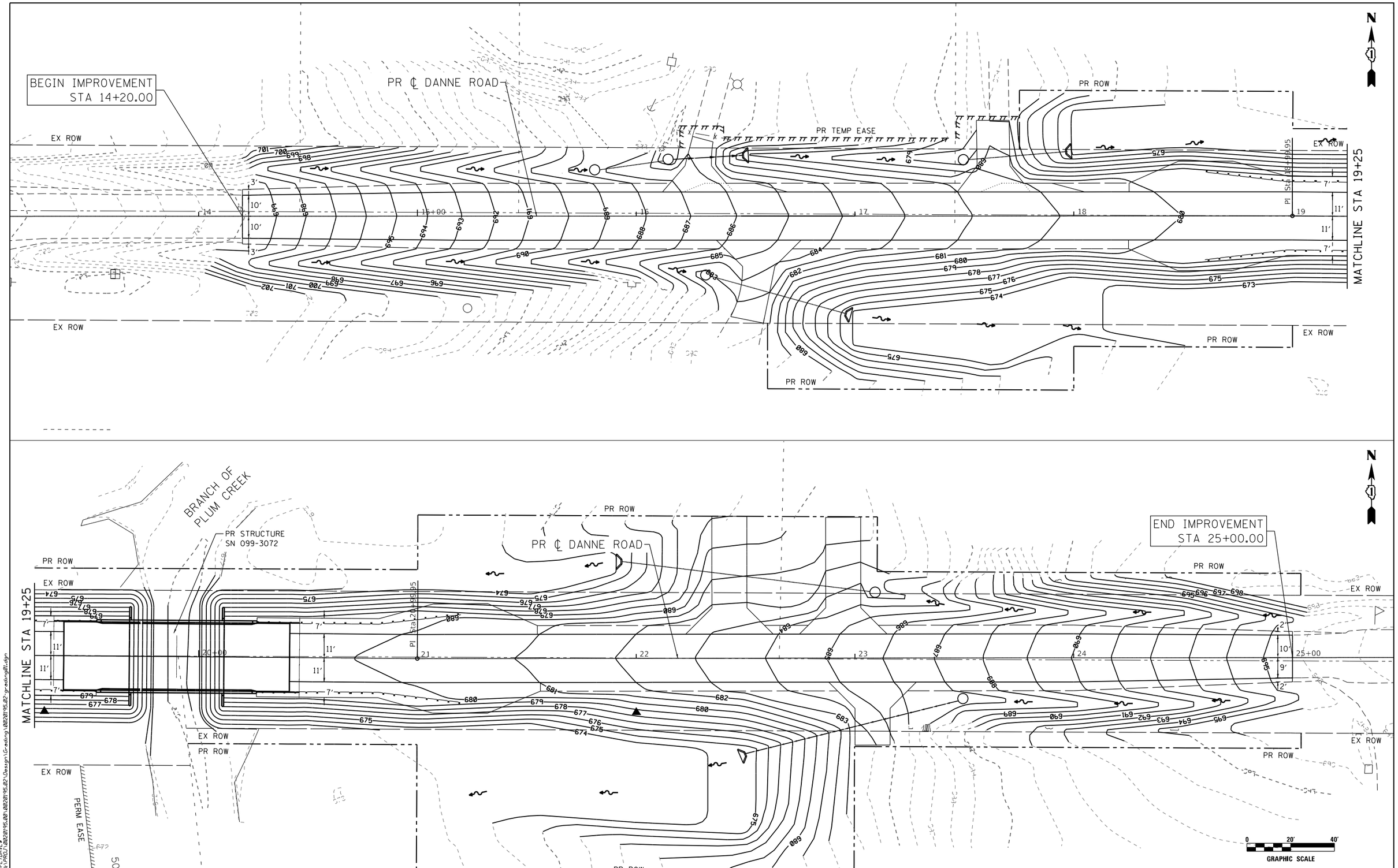
ENGINEERING CONSULTANT	USER NAME = mdaboub	DESIGNED - MLD	REVISED -
Clorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email: chicago@clorba.com		DRAWN - DW	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - EPS	REVISED -
	PLOT DATE = 8/27/2018	DATE - 8/27/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
PLAT OF HIGHWAYS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	24
		CONTRACT		61F15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DATE PLOTTED = 8/9/2019 8:46:31 AM
PEN TABLE = $PENTBL$
PLOT DRIVER = $PLOTDRV$
FILE NAME = N:\PROJ\00220195.001\00220195.02\Design\Grading\00220195.02-grading01.dgn

ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
8507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
tel. 773.775.4069 Fax 773.775.4014
E-mail: chicago@clorba.com

USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE - 8/9/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

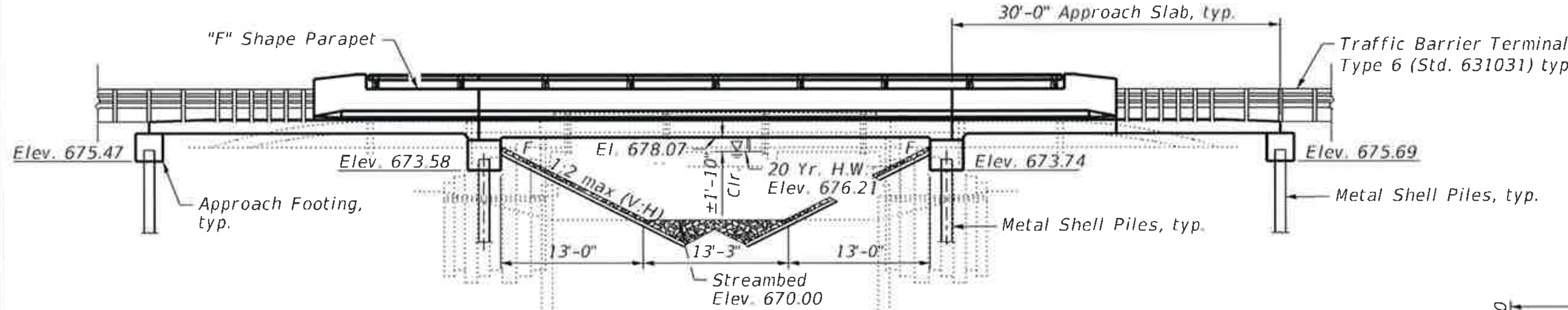
SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. 14+00 | TO STA. 25+00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	25
		CONTRACT		61F15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

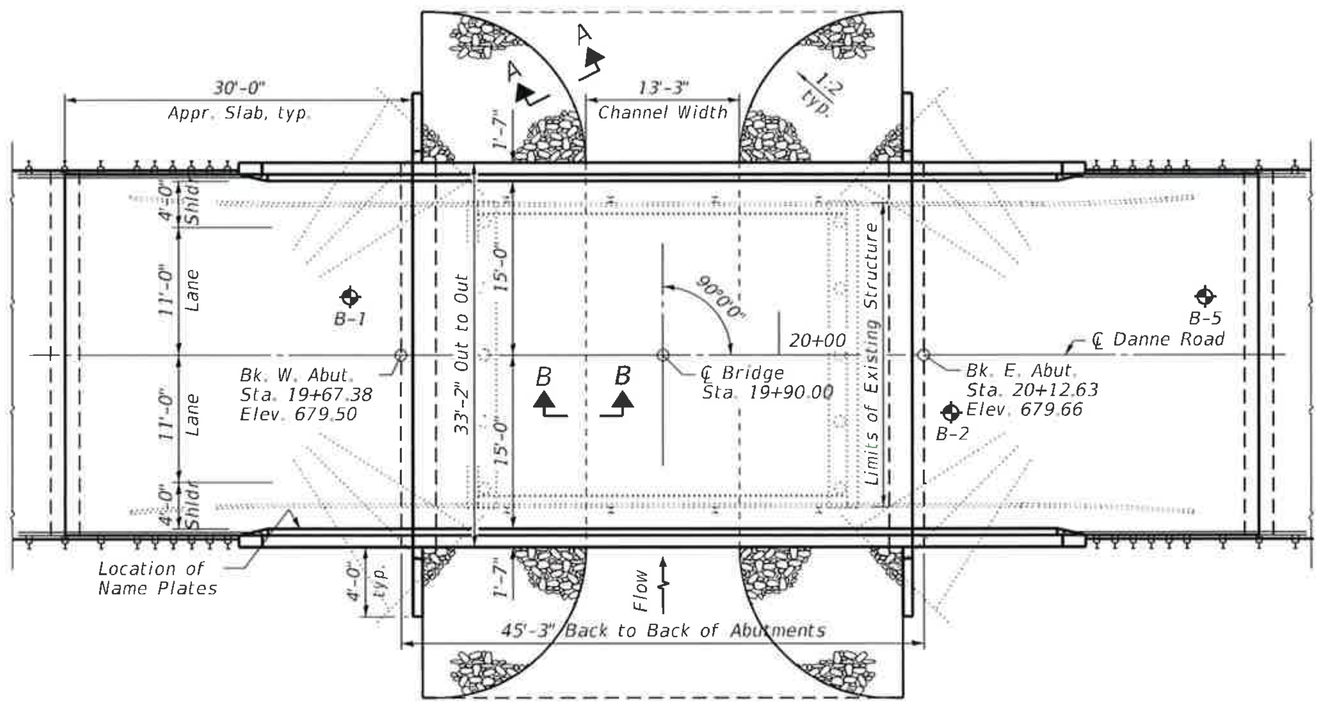
Bench Mark: Railroad spike in first power pole east of the bridge over Plum Creek 1' above ground. Elev. 674.92.

Existing Structure: S.N. 099-3174 was originally built in 1974 as section 113B-TR. The existing structure is a single span with precast reinforced concrete channel beams and concrete cap abutments supported on metal shell piles with steel sheet pile abutment backing and wing walls. The existing structure had an overall length of 31'-11" and an out to out width of 26'-3". Danne Road is to be closed with detour during construction.

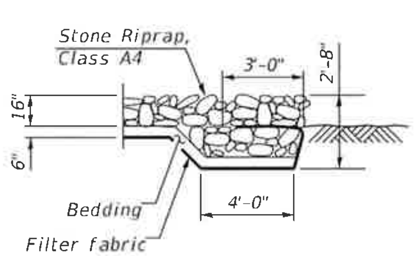
Salvage: None.



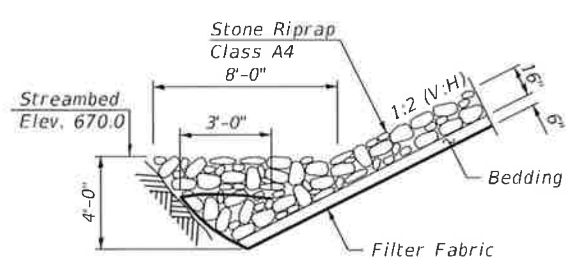
ELEVATION



PLAN



SECTION A-A



SECTION B-B

WATERWAY INFORMATION

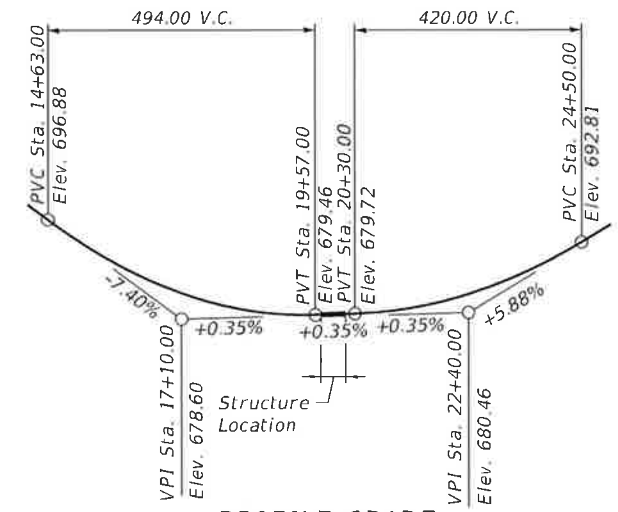
Drainage Area = 6.01 Sq. Mi. Existing Low Grade Elev. 676.38 @ Sta. 19+25; Proposed Low Grade Elev. 679.43 @ Sta. 19+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	410	146.1	148.8	675.53	0.2	0.2	675.70	675.67
Design	20	483	146.1	163.0	676.07	0.2	0.1	676.32	676.21
Base	100	674	146.1	196.6	677.41	0.2	0.1	677.63	677.52
Overtopping									
Max. Calc.	500	850	146.1	196.6	678.29	0.1	0.3	678.36	678.58

2 YR Flow = 226 CFS.

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevation (ft.) W. Abut.	Design Scour Elevation (ft.) E. Abut.	Item 113
Q100	644.31	644.31	5
Q200	653.53	653.53	
Design	644.31	644.31	
Check	653.53	653.53	



PROFILE GRADE

(Along ℄ Roadway)

HIGHWAY CLASSIFICATION

Danne Road - Township or Road District 0221
Functional Class: Local Road
ADT: 550 (2014); 700 (2040)
ADTT: 12%
DHV: 70 (2040)
Design Speed: 40 m.p.h.
Posted Speed: 45 m.p.h.
2-Way Traffic
Directional Distribution: 50:50

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Ed. with 2015 Interims

DESIGN STRESSES

FIELD UNITS
f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

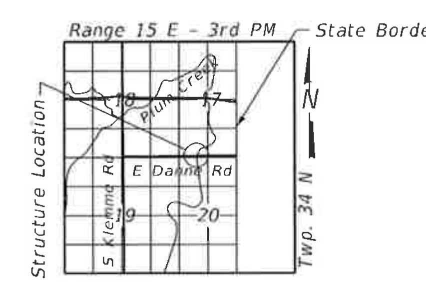
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.155g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.289g
Soil Site Class = E

STATE OF ILLINOIS LICENSED STRUCTURAL ENGINEER
BRETT W. SAUTER
081-006844

DATE: 8/7/2019
SEAL EXPIRES: 11/30/2020

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the "AASHTO LRFD Bridge Design Specifications," 7th Ed. 2014 with 2015 Interims.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
DANNE ROAD
OVER BRANCH OF PLUM CREEK
SECTION 13-02113-01-BR
WILL COUNTY
STATION 19+90.00
S.N. 099-3072

ENGINEERING CONSULTANT	USER NAME = lmattson	DESIGNED - KEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
Ciorba Group, Inc. CONSULTING ENGINEERS		CHECKED - RA/MLK	REVISED -	
	PLOT SCALE = 16.0 ' / in.	DRAWN - KEC	REVISED -	
	PLOT DATE = 8/7/2019	CHECKED - RA/MLK	REVISED -	

SHEET NO. S-1 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	26
		CONTRACT	61F15	
		ILLINOIS FED. AID PROJECT		

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-01-sht-gpe.dgn

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.

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

3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

4. Work in the waterway shall be timed to take place during low flow conditions. An In-stream work plan is to be submitted by Contractor for USACE and SWCD approval prior to start of work.

5. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

6. Existing PPC Channel beams are in a deteriorated condition with reduced load carrying capacity. It is a Contractor's responsibility to account for the condition of the beams when developing removal procedures.

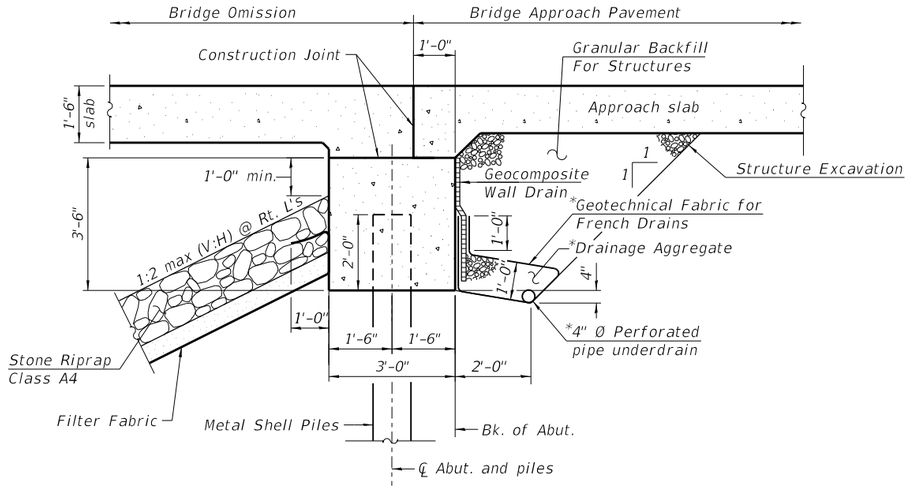
INDEX OF SHEETS

PLUM CREEK
BUILT 20__ BY
CRETE TOWNSHIP ROAD DISTRICT
SEC. 13-02113-01-BR
STATION 19+90.00
STR. NO. 099-3072
LOADING HL-93

NAME PLATE

(See Std. 515.01)

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with "Name Plates."



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUB	SUPER	TOTAL
**	Stone Riprap, Class A4	Sq Yd	371		371
	Filter Fabric	Sq Yd	371		371
	Removal Of Existing Structures	Each	0.5	0.5	1
	Structure Excavation	Cu Yd	253		253
	Concrete Structures	Cu Yd	44.6		44.6
	Concrete Superstructure	Cu Yd		101.8	101.8
	Bridge Deck Grooving	Sq Yd		322	322
	Protective Coat	Sq Yd		404	404
	Concrete Superstructure (Approach Slab)	Cu Yd		90.7	90.7
	Reinforcement Bars, Epoxy Coated	Pound	4,580	68,040	72,620
	Furnishing Metal Shell Piles 14" X 0.312"	Foot	1,200		1,200
	Driving Piles	Foot	1,200		1,200
	Test Pile Metal Shells	Each	4		4
	Pile Shoes	Each	24		24
	Name Plates	Each		1	1
	Geocomposite Wall Drain	Sq Yd	33		33
**	Parapet Railing, Special	Foot		127	127
	Granular Backfill For Structures	Cu Yd	790		790
**	Pipe Underdrains For Structures 4"	Foot	103		103

** Special Provision

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
Suite 400 Crossroad Avenue,
Rosemont, Illinois 60656
Tel 773.775.4008
Fax 773.775.4014
Email chicago@ciorba.com

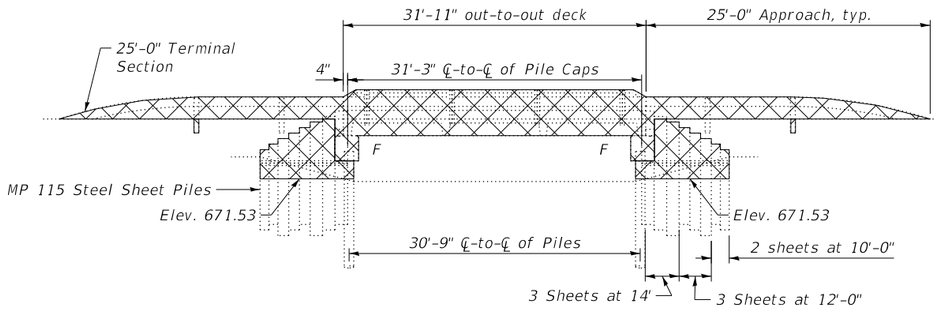
USER NAME = mdaboub	DESIGNED - KEC	REVISED -	
	CHECKED - RA/MLK	REVISED -	
PLOT SCALE = 0.2.0000 '/ in.	DRAWN - KEC	REVISED -	
PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

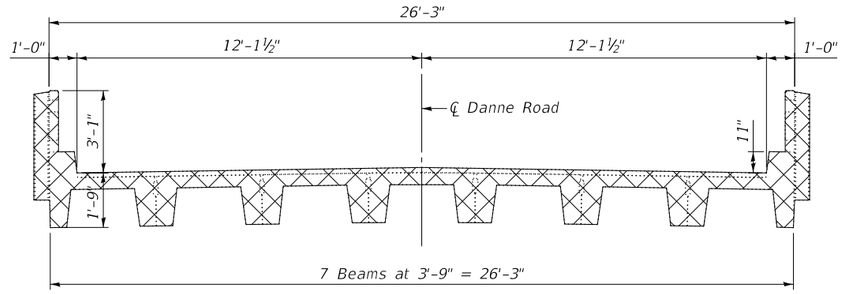
GENERAL NOTES, BILL OF MATERIAL AND INDEX OF SHEETS
STRUCTURE NO. 099-3072
SHEET NO. S-2 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	27
		CONTRACT		61F15
	ILLINOIS FED. AID PROJECT			

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-02-sht-General Notes and Bill of Material.dgn

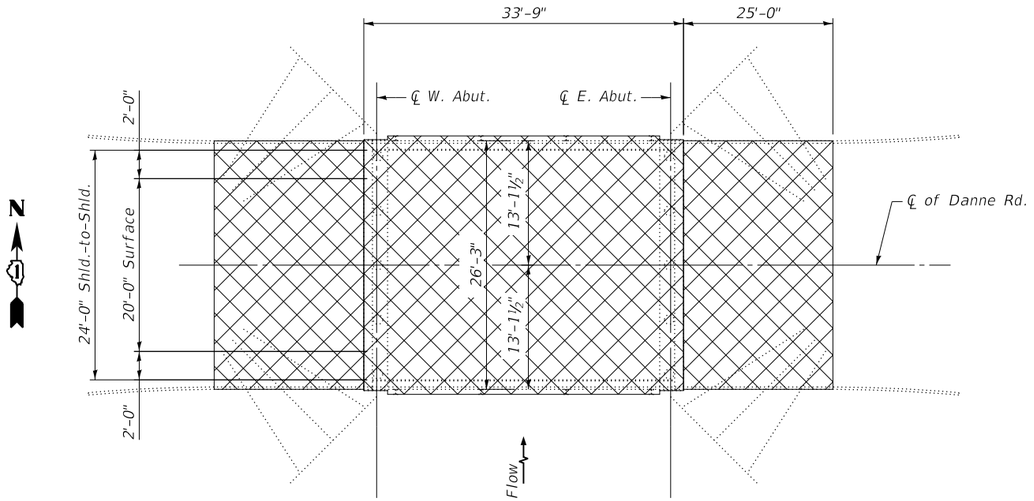


ELEVATION

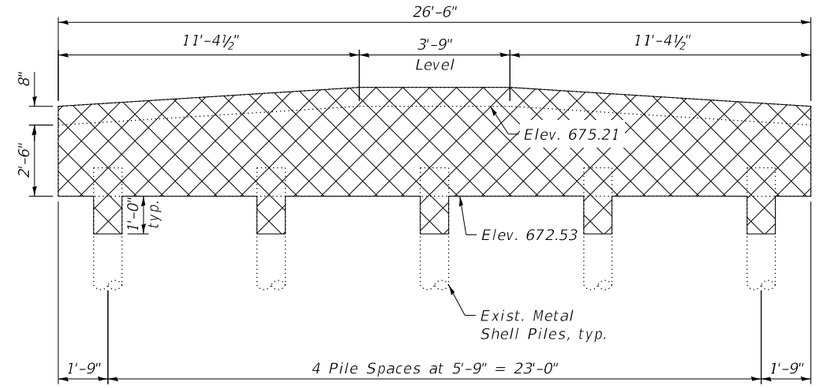


SECTION THRU STRUCTURE

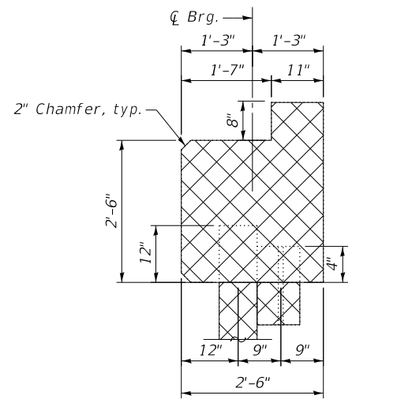
(Looking East)



PLAN



TYPICAL ABUTMENT ELEVATION



SECTION THRU ABUTMENT

LEGEND:

Existing Structure Removal

Note:

1. Quantities for Structure Excavation are shown on sheet S-12 and Granular Backfill for Structures are shown on sheet S-11 and are required during concrete removal operations.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
2500 North Cleveland Avenue
Suite 401 Chicago, Illinois 60656
Tel 773.775.4098
Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = mdaboub	DESIGNED – KEC	REVISED –	
	CHECKED – RA/MLK	REVISED –	
PLOT SCALE = 16±0.0000 '' / in.	DRAWN – KEC	REVISED –	
PLOT DATE = 8/27/2018	CHECKED – RA/MLK	REVISED –	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
STRUCTURE NO. 099-3072
SHEET NO. S-3 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	28
		CONTRACT		61F15
	ILLINOIS FED. AID PROJECT			

N:\PROJ\00201995.00\00201995.02\Design\Structural\CAD\00201995-03-sht-Removal.dgn

NORTH EDGE OF DECK

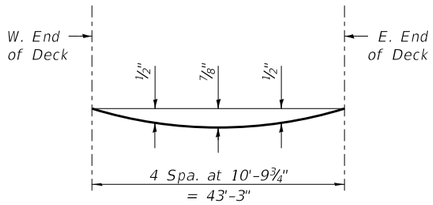
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+67.38	-16.58	679.31	679.31
W. End of Deck	19+68.38	-16.58	679.31	679.31
A	19+78.38	-16.58	679.35	679.39
B	19+88.38	-16.58	679.38	679.45
C	19+98.38	-16.58	679.42	679.47
E. End of Deck	20+11.63	-16.58	679.46	679.46
Bk. E. Abut.	20+12.63	-16.58	679.47	679.47

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+67.38	-15.00	679.20	679.20
W. End of Deck	19+68.38	-15.00	679.20	679.20
A	19+78.38	-15.00	679.24	679.28
B	19+88.38	-15.00	679.27	679.34
C	19+98.38	-15.00	679.31	679.36
E. End of Deck	20+11.63	-15.00	679.35	679.35
Bk. E. Abut.	20+12.63	-15.00	679.36	679.36

℄ DANNE ROAD AND PROFILE GRADE

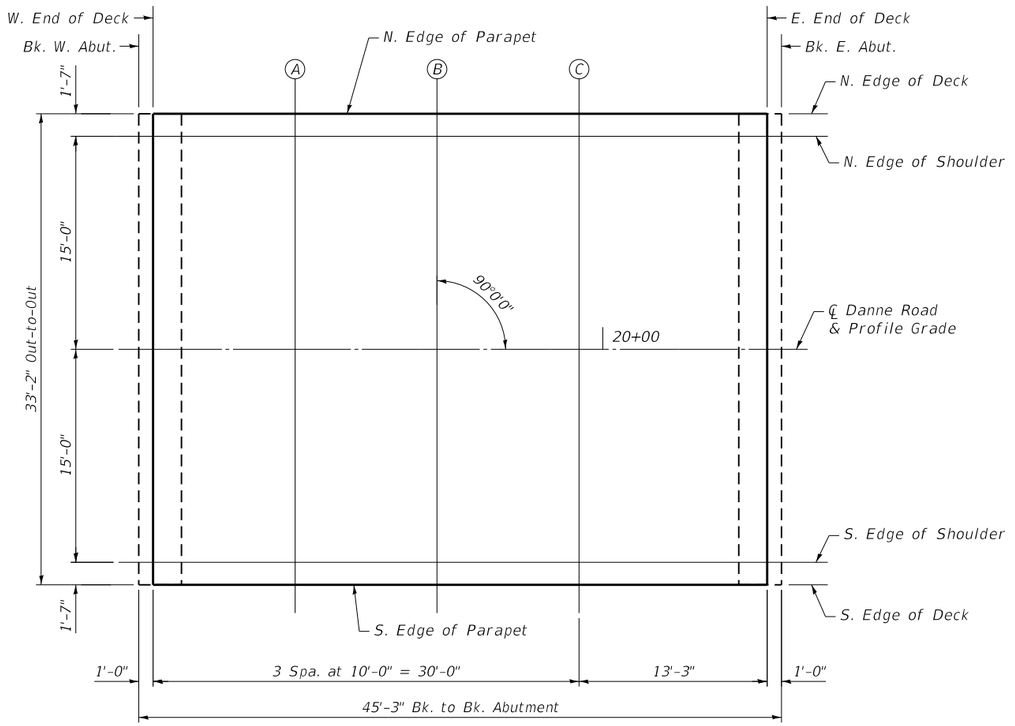
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+67.38	0.00	679.50	679.50
W. End of Deck	19+68.38	0.00	679.50	679.50
A	19+78.38	0.00	679.54	679.58
B	19+88.38	0.00	679.57	679.64
C	19+98.38	0.00	679.61	679.66
E. End of Deck	20+11.63	0.00	679.65	679.65
Bk. E. Abut.	20+12.63	0.00	679.66	679.66



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet.



PLAN

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+67.38	15.00	679.20	679.20
W. End of Deck	19+68.38	15.00	679.20	679.20
A	19+78.38	15.00	679.24	679.28
B	19+88.38	15.00	679.27	679.34
C	19+98.38	15.00	679.31	679.36
E. End of Deck	20+11.63	15.00	679.35	679.35
Bk. E. Abut.	20+12.63	15.00	679.36	679.36

SOUTH EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	19+67.38	16.58	679.31	679.31
W. End of Deck	19+68.38	16.58	679.31	679.31
A	19+78.38	16.58	679.35	679.39
B	19+88.38	16.58	679.38	679.45
C	19+98.38	16.58	679.42	679.47
E. End of Deck	20+11.63	16.58	679.46	679.46
Bk. E. Abut.	20+12.63	16.58	679.47	679.47

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue
Suite 402 Chicago, Illinois 60656
Tel 773.775.4069
Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = mdaboub	DESIGNED - KEC	REVISED -	
	CHECKED - RA/MLK	REVISED -	
PLOT SCALE = 10±8.0000 '±' / in.	DRAWN - KEC	REVISED -	
PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 099-3072
SHEET NO. S-4 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	29
		CONTRACT		61F15
	ILLINOIS FED. AID PROJECT			

NORTH EDGE OF NORTH SHOULDER

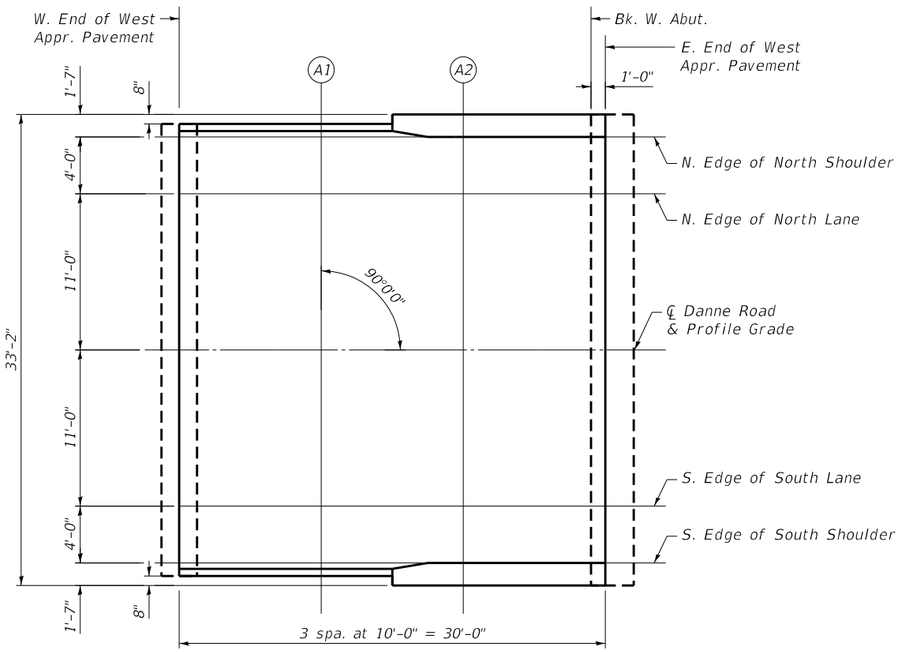
Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	19+38.38	-15.00	679.25
A1	19+48.38	-15.00	679.20
A2	19+58.38	-15.00	679.16
E. End of West Appr. Pavement	19+68.38	-15.00	679.20

NORTH EDGE OF NORTH LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	19+38.38	-11.00	679.33
A1	19+48.38	-11.00	679.28
A2	19+58.38	-11.00	679.24
E. End of West Appr. Pavement	19+68.38	-11.00	679.28

℄ DANNE ROAD AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	19+38.38	0.00	679.55
A1	19+48.38	0.00	679.50
A2	19+58.38	0.00	679.46
E. End of West Appr. Pavement	19+68.38	0.00	679.50



PLAN

N

SOUTH EDGE OF SOUTH LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	19+38.38	11.00	679.33
A1	19+48.38	11.00	679.28
A2	19+58.38	11.00	679.24
E. End of West Appr. Pavement	19+68.38	11.00	679.28

SOUTH EDGE OF SOUTH SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pavement	19+38.38	15.00	679.25
A1	19+48.38	15.00	679.20
A2	19+58.38	15.00	679.16
E. End of West Appr. Pavement	19+68.38	15.00	679.20

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-05-sht-Top of W.Appr.Slab Elev.dgn

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
6601 North Cumberland Avenue
Suite 402 - Chicago, Illinois 60656
Tel 773.775.4000
Fax 773.775.4014
E-mail chicago@ciorba.com

USER NAME = mdaboub	DESIGNED - KEC	REVISED -	
	CHECKED - RA/MLK	REVISED -	
PLOT SCALE = 10±8.0064 '±' / in.	DRAWN - KEC	REVISED -	
PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-3072
SHEET NO. S-5 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	30
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

NORTH EDGE OF NORTH SHOULDER

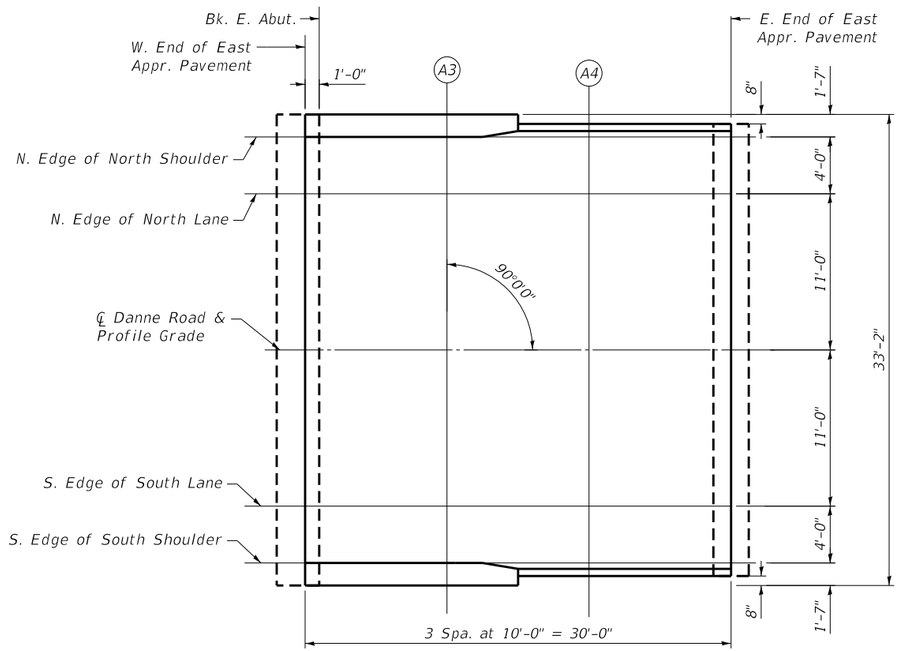
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pavement	20+11.63	-15.00	679.36
A3	20+21.63	-15.00	679.39
A4	20+31.63	-15.00	679.43
E. End of East Appr. Pavement	20+41.63	-15.00	679.47

NORTH EDGE OF NORTH LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pavement	20+11.63	-11.00	679.44
A3	20+21.63	-11.00	679.47
A4	20+31.63	-11.00	679.51
E. End of East Appr. Pavement	20+41.63	-11.00	679.55

℄ DANNE ROAD AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pavement	20+11.63	0.00	679.66
A3	20+21.63	0.00	679.69
A4	20+31.63	0.00	679.73
E. End of East Appr. Pavement	20+41.63	0.00	679.77



PLAN

N

SOUTH EDGE OF SOUTH LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pavement	20+11.63	11.00	679.44
A3	20+21.63	11.00	679.47
A4	20+31.63	11.00	679.51
E. End of East Appr. Pavement	20+41.63	11.00	679.55

SOUTH EDGE OF SOUTH SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pavement	20+11.63	15.00	679.36
A3	20+21.63	15.00	679.39
A4	20+31.63	15.00	679.43
E. End of East Appr. Pavement	20+41.63	15.00	679.47

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-06-sht-Top of E. Appr. Slab Elev.dgn

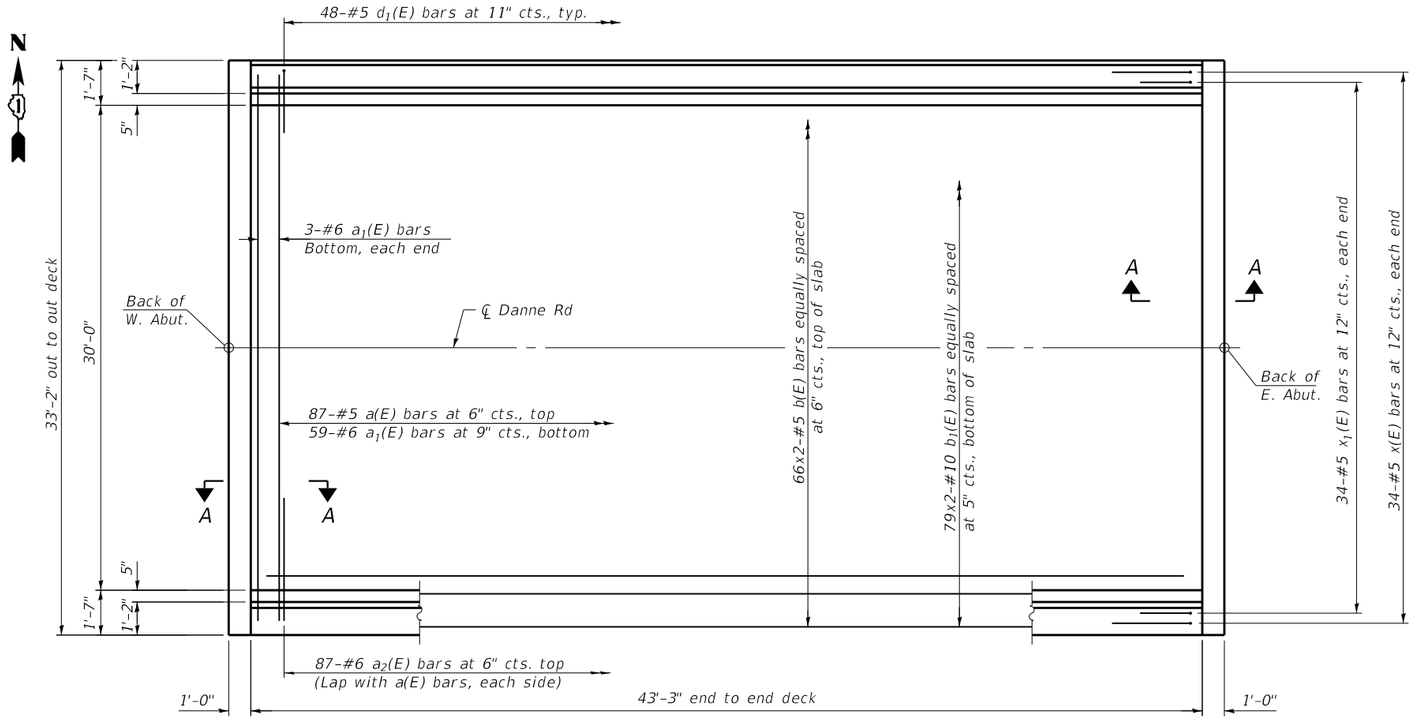
ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
6907 North Cumberland Avenue
Suite 402 - Chicago, Illinois 60656
Tel. 773.775.4000
Fax 773.775.4010
E-mail chicago@ciorba.com

USER NAME = mdaboub	DESIGNED - KEC	REVISED -	
	CHECKED - RA/MLK	REVISED -	
PLOT SCALE = 10±8.0064 '±' / in.	DRAWN - KEC	REVISED -	
PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -	

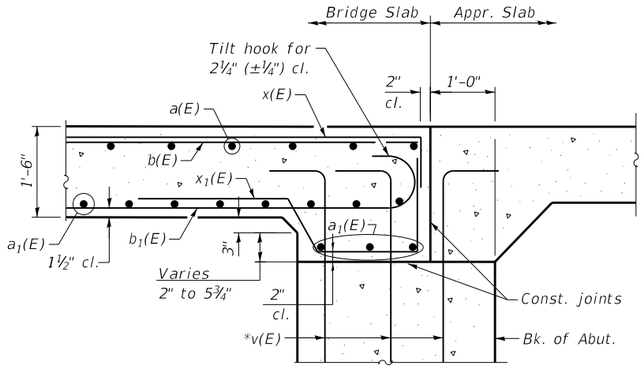
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-3072
SHEET NO. S-6 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	31
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

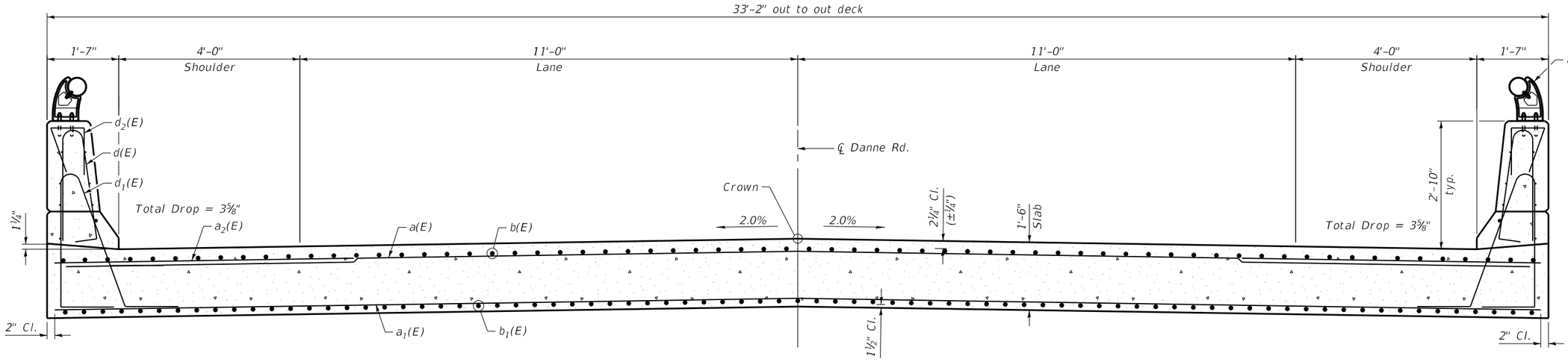


PLAN



SECTION A–A

Pour bridge slab before pouring approach slab.
*v(E) bars are included with the abutments on sheet S–12.



CROSS SECTION

(Looking East)

MINIMUM BAR LAP

#5 bar = 3'–0"
#6 bar = 3'–1"
#10 bar = 9'–6"

Notes:

1. See Sheet S–8 and S–9 for parapet and bridge rail details.
2. See Sheet S–8 for parapet reinforcement and Bill of Materials.
3. Bars indicated thus 66x2–#5 etc. indicates 66 lines of bars with 2 lengths per line.

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue
Chicago, Illinois 60656
Tel 773.775.4700
Fax 773.775.4014
E-mail chicago@ciorba.com

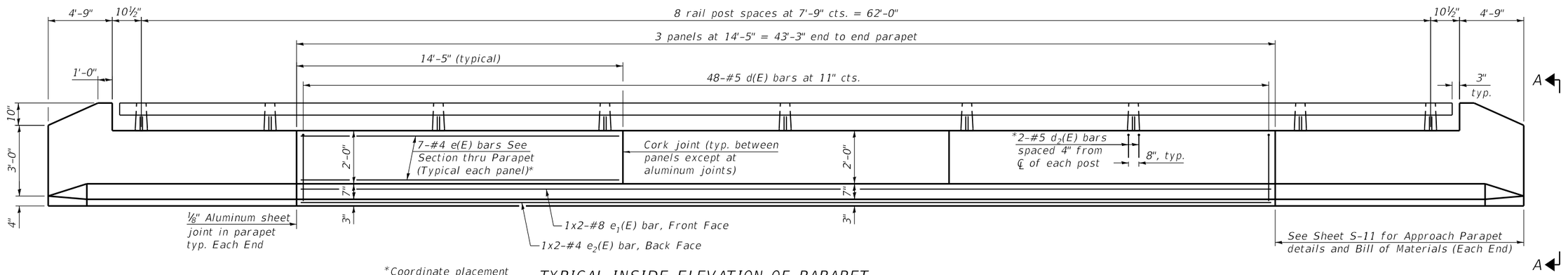
USER NAME = mdaboub	DESIGNED – KEC	REVISED –	
	CHECKED – RA/MLK	REVISED –	
PLOT SCALE = 0.2.0000 ':' / in.	DRAWN – KEC	REVISED –	
PLOT DATE = 8/27/2018	CHECKED – RA/MLK	REVISED –	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN AND CROSS SECTION
STRUCTURE NO. 099–3072
SHEET NO. S-7 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	32
		CONTRACT		61F15
	ILLINOIS FED. AID PROJECT			

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-07-sht-Superstructure Plan.dgn

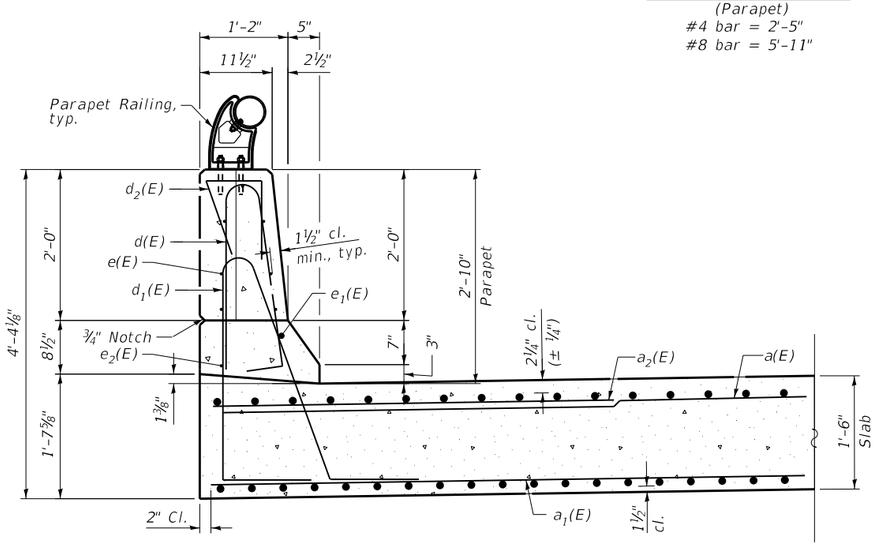


*Coordinate placement with railing anchor rods. See sheet S-9.

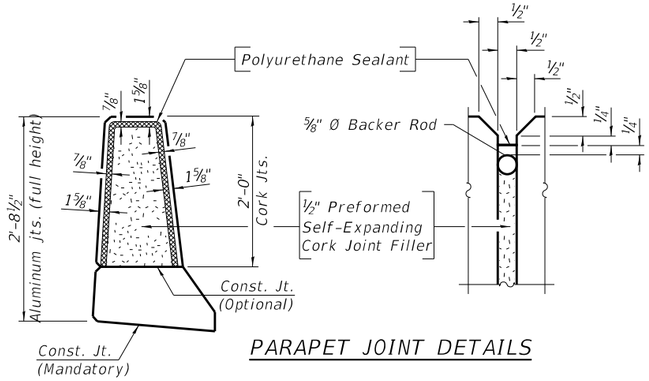
TYPICAL INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

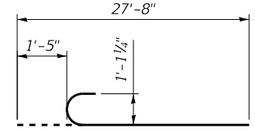
(Parapet)
#4 bar = 2'-5"
#8 bar = 5'-11"



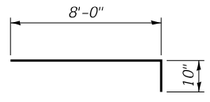
SECTION THROUGH PARAPET



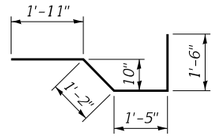
PARAPET JOINT DETAILS



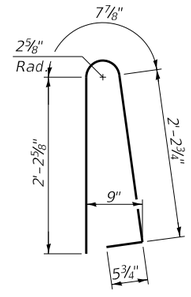
BAR $b_1(E)$



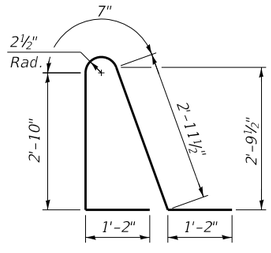
BAR x(E)



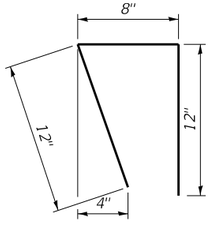
BAR $x_1(E)$



BAR d(E)



BAR $d_1(E)$



BAR $d_2(E)$

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	87	#5	32'-10"	
$a_1(E)$	65	#6	32'-10"	
$a_2(E)$	174	#6	6'-6"	
b(E)	132	#5	23'-0"	
$b_1(E)$	158	#10	26'-3"	
d(E)	96	#5	5'-7"	
$d_1(E)$	96	#5	8'-8½"	
$d_2(E)$	20	#5	2'-8"	
e(E)	42	#4	14'-1"	
$e_1(E)$	4	#8	24'-5"	
$e_2(E)$	4	#4	22'-8"	
x(E)	68	#5	8'-10"	
$x_1(E)$	68	#5	6'-0"	
Reinforcement Bars, Epoxy Coated		Lbs.	32,160	
Concrete Superstructure		Cu. Yd.	93.7	
Bridge Deck Grooving		Sq. Yd.	135	
Protective Coat		Sq. Yd.	181	

Notes:

1. The ⅛" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
2. The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a ⅝" backer rod.
3. The ½" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.

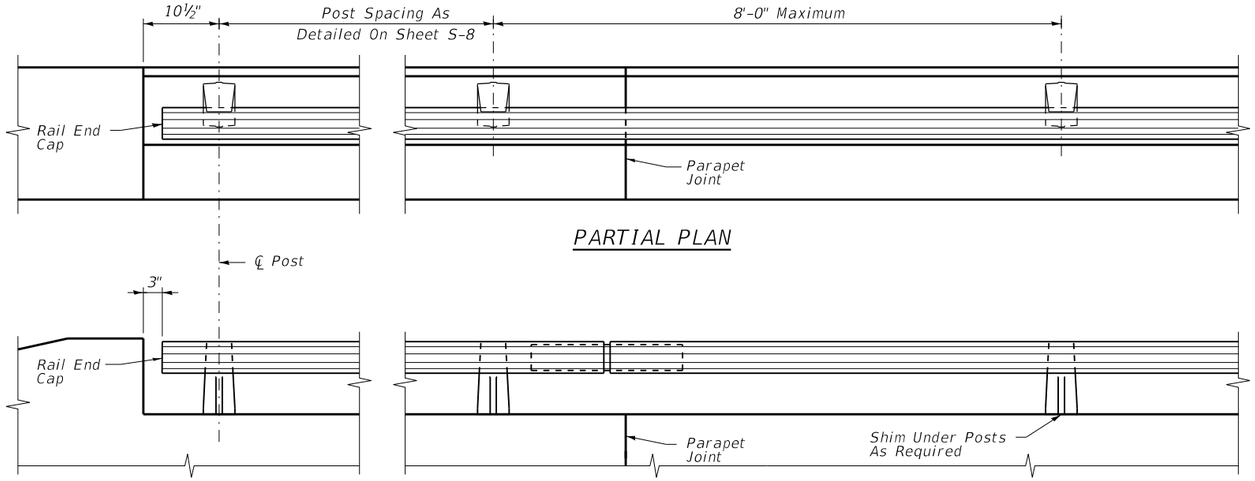
ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
1500 North Cumberland Avenue
Suite 402 Chicago, Illinois 60656
Tel 773.775.4099
Fax 773.775.4014
E-mail chicago@ciorba.com

USER NAME = mdaboub	DESIGNED – KEC	REVISED –	
	CHECKED – RA/MLK	REVISED –	
PLOT SCALE = 0.2.0000 '' / in.	DRAWN – KEC	REVISED –	
PLOT DATE = 8/27/2018	CHECKED – RA/MLK	REVISED –	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

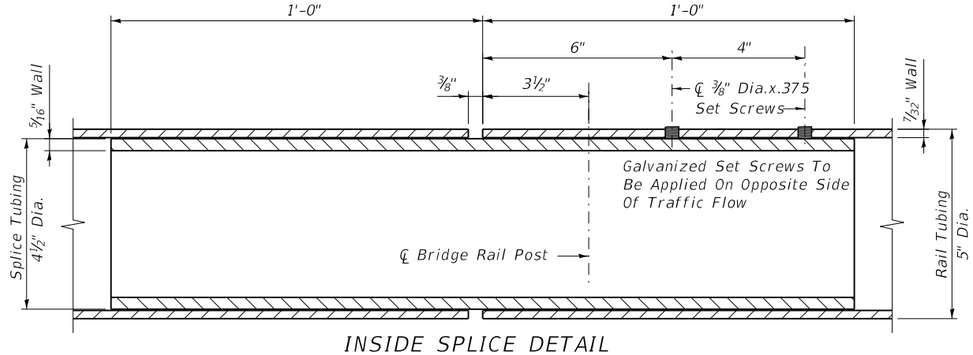
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 099-3072
SHEET NO. S-8 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	33
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		



PARTIAL PLAN

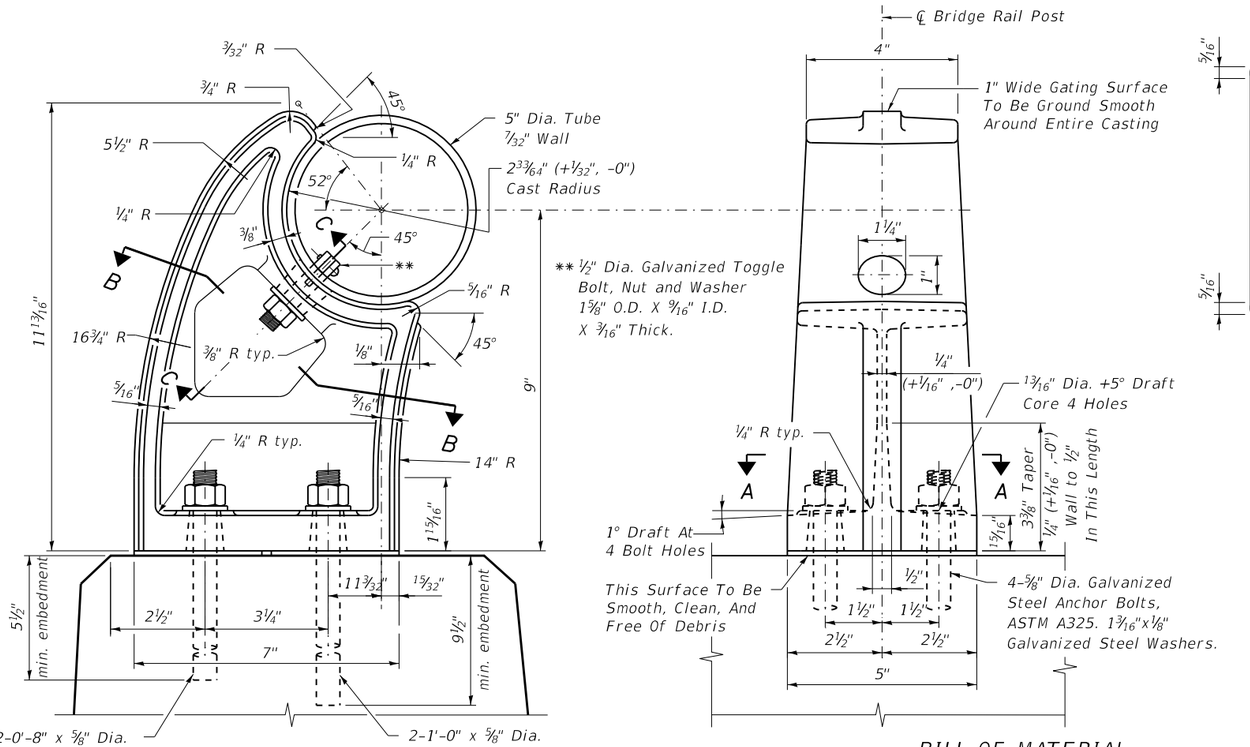
PARTIAL ELEVATION



INSIDE SPLICE DETAIL

NOTES:

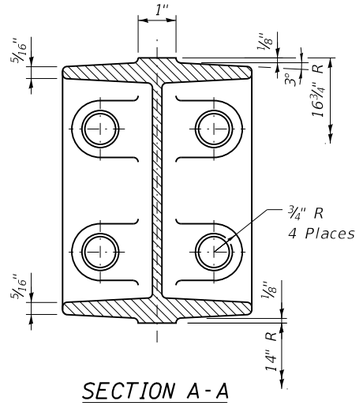
1. Railing to conform to vertical and horizontal alignment.
2. Joints shall be placed 25'-0" center to center, max.
3. Slip joint shall be placed in panels to match end of deck.
4. Design weight: 6¼ lbs. per foot.
5. Unless otherwise specified all draft to be 3°.
6. All unmarked Radii to be ⅛" R.
7. After fabrication all exposed surfaces of aluminum shall be given an anodic oxide coating, dyed black, conforming to the requirements of ASTM designation: B 580, Type B, Architectural Class I. See Special Provisions.
8. Three aluminum shims per post, one at ⅛" and two at 1/16" shall be provided for 25 percent of the posts.
9. At the Contractor option, either cast in place anchor devices or drilled and set anchor rods may be used to attach the posts to the concrete. Drilling and setting of anchor rods shall be according to Article 509.06. Cost of anchor devices and rods shall be included in the cost of Parapet Railing, Special.



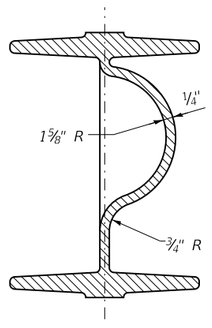
RAILING DETAILS

BILL OF MATERIAL

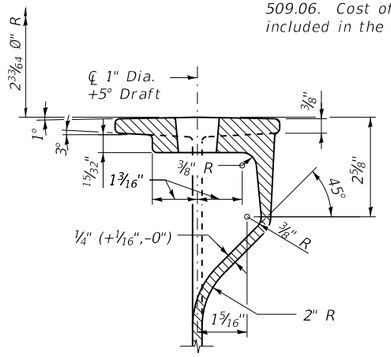
Item	Unit	Total
Parapet Railing, Special	Ft.	127



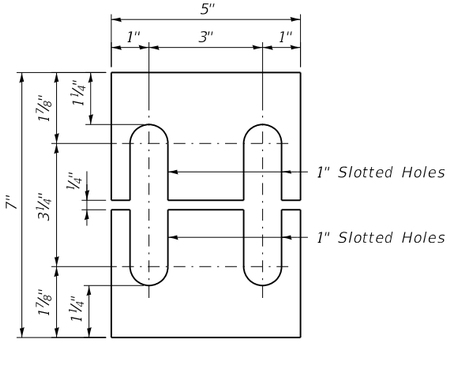
SECTION A-A



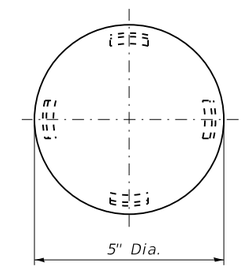
SECTION B-B



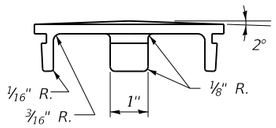
SECTION C-C



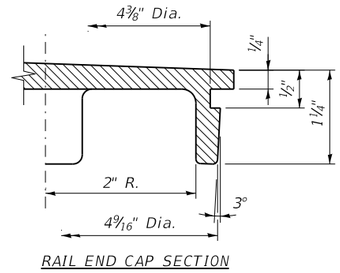
SHIM DETAIL



RAIL END CAP PLAN



RAIL END CAP ELEVATION



RAIL END CAP SECTION

RAIL END CAP DETAILS

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue
Suite 402 Chicago Illinois 60656
Tel 773.775.4099
Fax 773.775.4014
Email chicago@ciorba.com

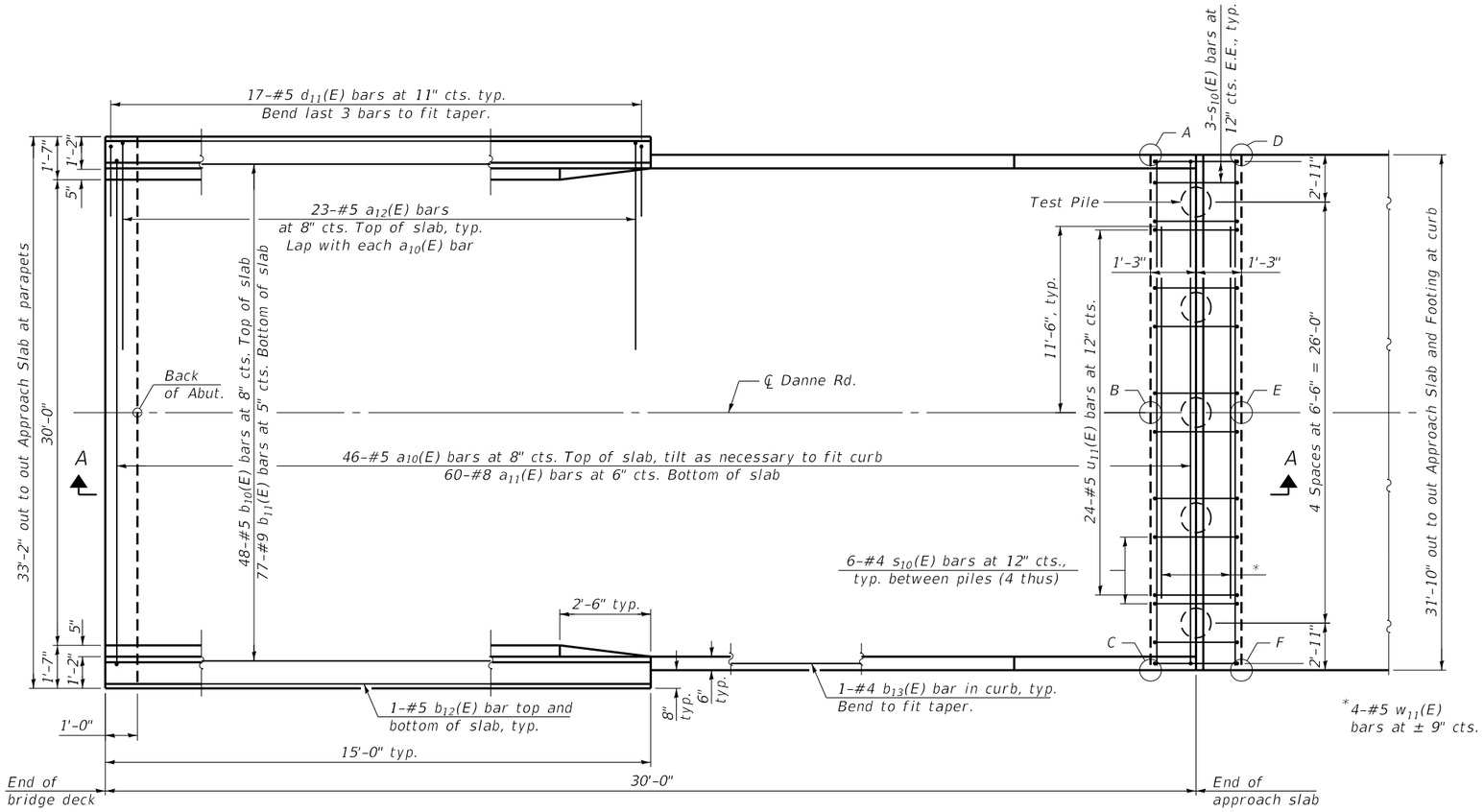
USER NAME = mdaboub	DESIGNED - KEC	REVISED -	
	CHECKED - RA/MLK	REVISED -	
PLOT SCALE = 0x2.0000 '=' / in.	DRAWN - KEC	REVISED -	
PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS
STRUCTURE NO. 099-3072
SHEET NO. S-9 OF S-17 SHEETS

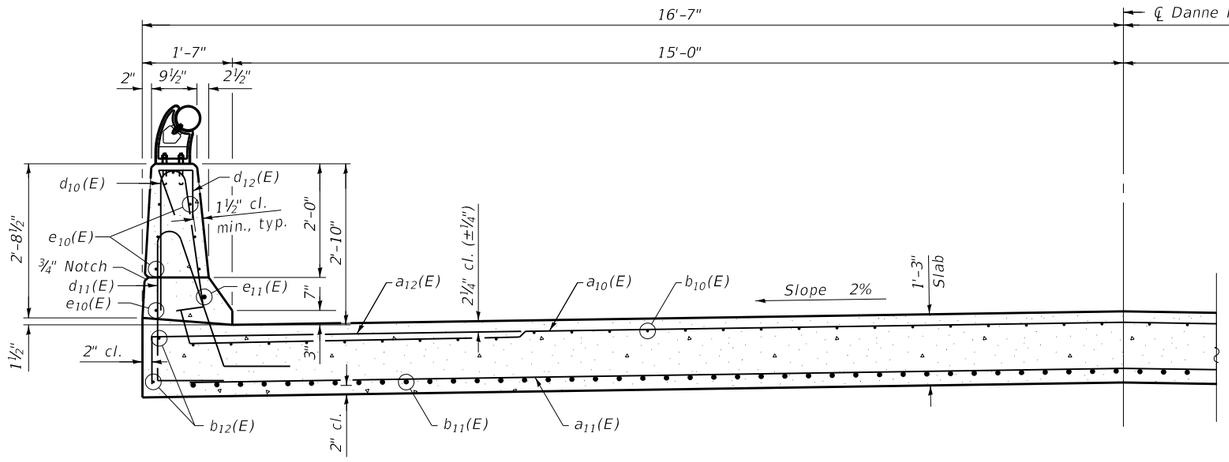
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	34
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

N:\PROJ\00201995.00\0020195.02\Design\Structural\CAD\0020195-09-sht-Railing Details.dgn



PLAN

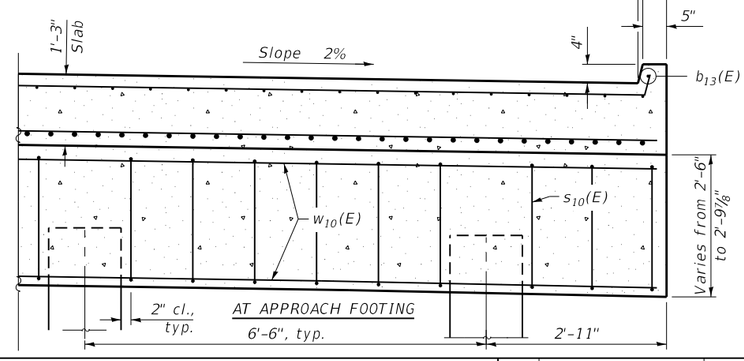
(Showing E. Appr., W. Appr. is similar but mirrored)



NEAR ABUTMENT

CROSS SECTION

(Looking East)



PILE DATA – WEST APPROACH BENT

Type: Metal Shell Piles 14"x.312"
Nominal Required Bearing: 291k
Factored Resistance Available: 160k
Est. Length: 62'
No. Production Piles: 4
No. Test Piles: 1
South Pile is the Test Pile.

PILE DATA – EAST APPROACH BENT

Type: Metal Shell Piles 14"x.312"
Nominal Required Bearing: 218k
Factored Resistance Available: 120k
Est. Length: 52'
No. Production Piles: 4
No. Test Piles: 1
North Pile is the Test Pile.

MINIMUM BAR LAP

#5 Bar = 2'-7"

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	W. Approach		E. Approach	
Point	Top	Bottom	Top	Bottom
A	677.99	675.47	678.19	675.69
B	678.31	675.47	678.51	675.69
C	677.99	675.47	678.19	675.69
D	677.97	675.47	678.21	675.69
E	678.29	675.47	678.53	675.69
F	677.97	675.47	678.21	675.69

N:\PROJ\00220195.00\00220195.02\Design\Structural\CAD\00220195-10-sht-Approach Slab Details 1.dgn

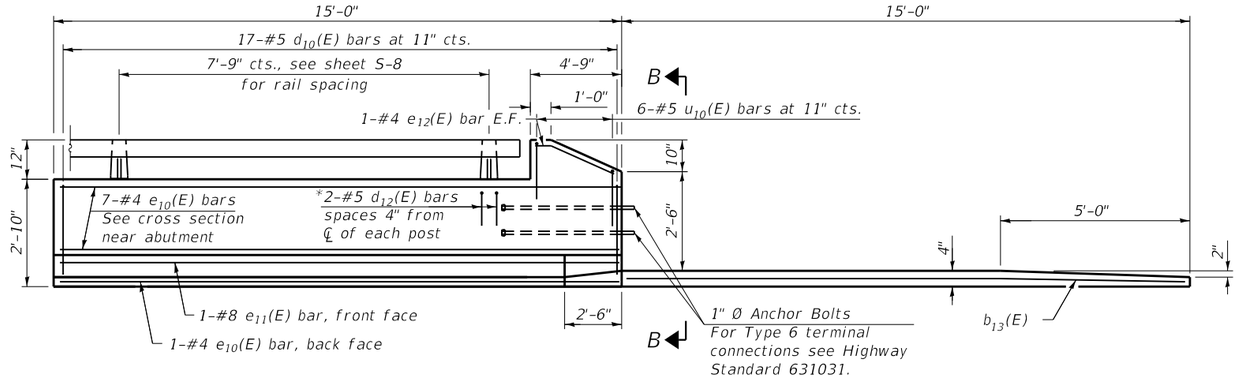
ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5007 North Cumberland Avenue
Suite 402 Chicago, Illinois 60656
Tel. 773.775.4011
Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = mdaboub	DESIGNED – KEC	REVISED –
	CHECKED – RA/MLK	REVISED –
PLOT SCALE = 0.2.0000 ' / in.	DRAWN – KEC	REVISED –
PLOT DATE = 8/27/2018	CHECKED – RA/MLK	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

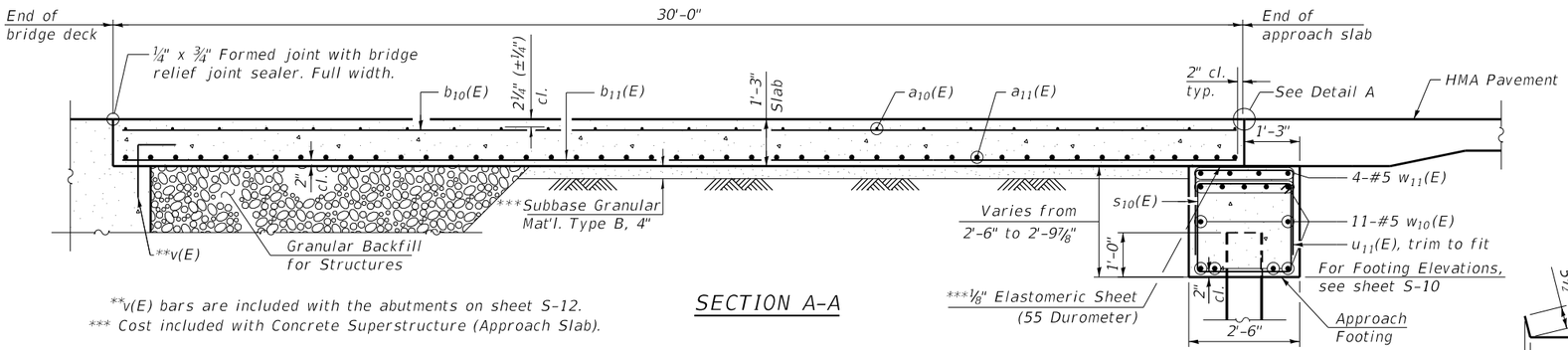
BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 099-3072
SHEET NO. S-10 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	35
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		



*Coordinate placement with railing anchor rods. See sheet S-9.

INSIDE ELEVATION OF PARAPET AND CURB



**v(E) bars are included with the abutments on sheet S-12.
*** Cost included with Concrete Superstructure (Approach Slab).

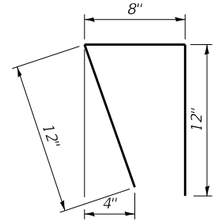
SECTION A-A

Notes:

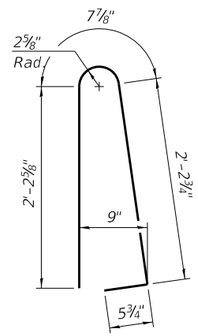
1. Parapet concrete shall be paid for as Concrete Superstructure.
2. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
3. Approach footing concrete shall be paid for as Concrete Structures.
4. See Sheet S-10 for approach pile data.
5. Cost of excavation for approach footing included with Concrete Structures.
6. For Granular Backfill for Structures and drainage treatment details, see sheet S-2 of S-17.

MINIMUM BAR LAP

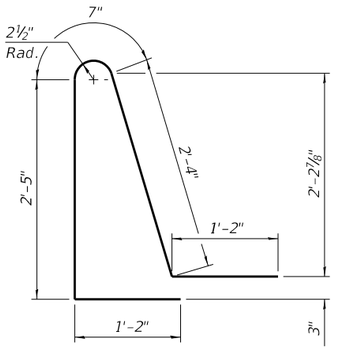
#4 Bar = 2'-7"



BAR d_{12}(E)



BAR d_{10}(E)

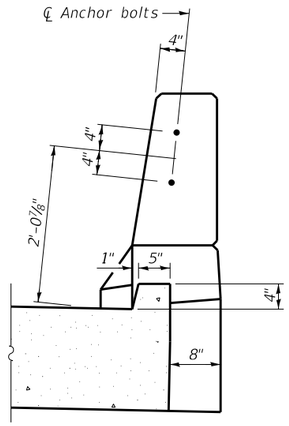


BAR d_{11}(E)

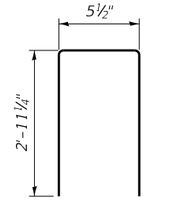
TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_{10}(E)	92	#5	32'-5"	
a_{11}(E)	120	#8	31'-6"	
a_{12}(E)	92	#5	7'-4"	
b_{10}(E)	96	#5	29'-8"	
b_{11}(E)	154	#9	29'-8"	
b_{12}(E)	8	#5	14'-8"	
b_{13}(E)	4	#4	14'-8"	
d_{10}(E)	68	#5	5'-7"	
d_{11}(E)	68	#5	7'-8"	
d_{12}(E)	16	#5	2'-8"	
e_{10}(E)	32	#4	14'-8"	
e_{11}(E)	4	#8	14'-8"	
e_{12}(E)	8	#4	4'-10"	
s_{10}(E)	60	#4	9'-5"	
u_{10}(E)	24	#5	6'-4"	
u_{11}(E)	48	#5	7'-4"	
w_{10}(E)	22	#5	31'-6"	
w_{11}(E)	8	#5	23'-0"	
Concrete Superstructure		Cu. Yd.	8.1	
Concrete Superstructure (Approach Slab)		Cu. Yd.	90.7	
Concrete Structures		Cu. Yd.	15.7	
Reinforcement Bars, Epoxy Coated		Pound	35,880	
Furnishing of Metal Shell Piles 14"x0.312"		Foot	456	
Driving Piles		Foot	456	
Test Pile Metal Shells		Each	2	
Pile Shoes		Each	10	
Bridge Deck Grooving		Sq. Yd.	187	
Protective Coat		Sq. Yd.	223	

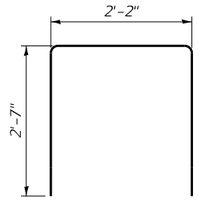
DETAIL A



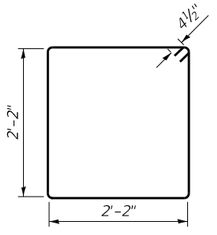
VIEW B-B



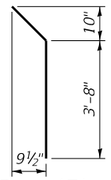
BAR u_{10}(E)



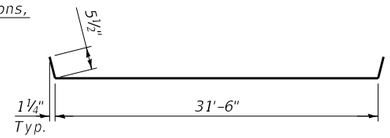
BAR u_{11}(E)



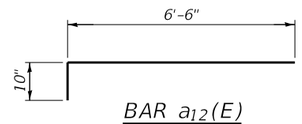
BAR s_{10}(E)



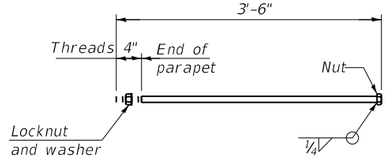
BAR e_{12}(E)



BAR a_{10}(E)



BAR a_{12}(E)



***1" Ø ANCHOR BOLT

(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

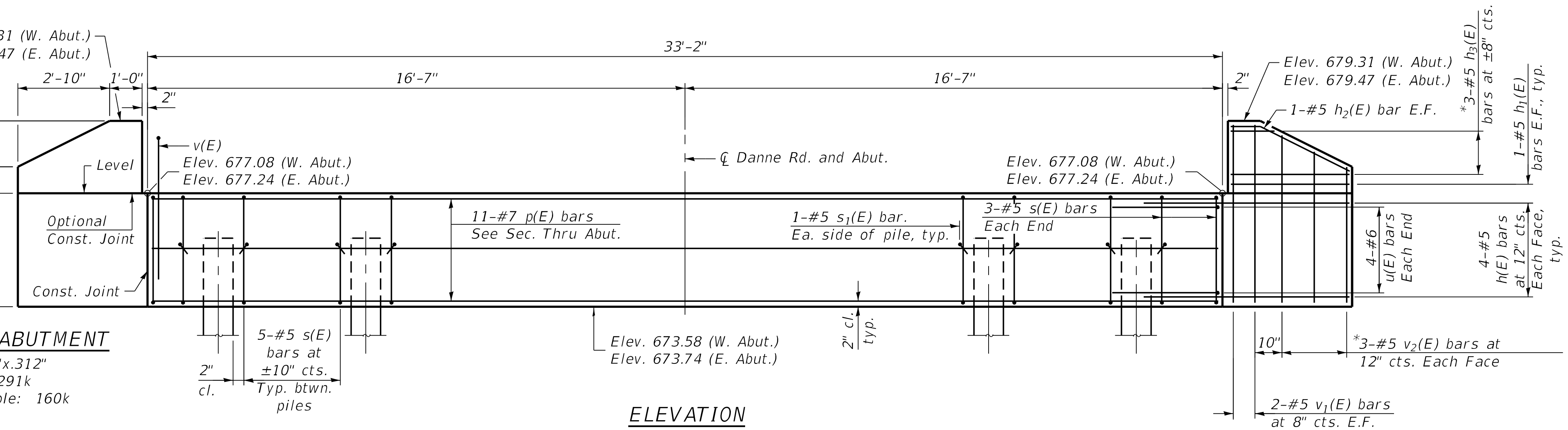
N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-11-sht-Approach Slab Details 2.dgn

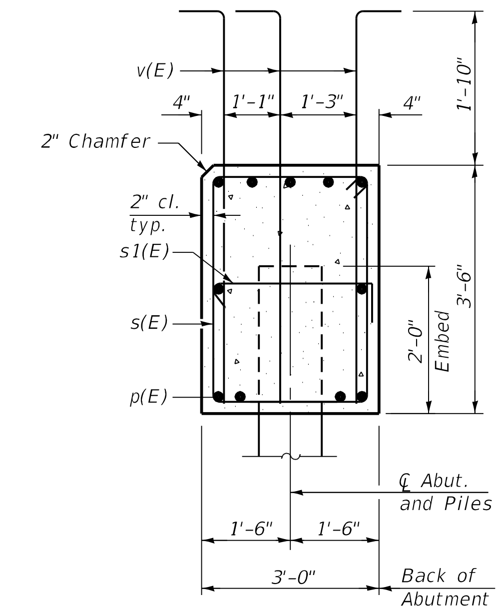
ENGINEERING CONSULTANT	USER NAME = mdaboub	DESIGNED – KEC	REVISED –
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue Suite 402 Chicago, Illinois 60656 Tel 773.775.4099 Fax 773.775.4014 Email chicago@ciorba.com		CHECKED – RA/MLK	REVISED –
	PLOT SCALE = 0x2.0000 '' / in.	DRAWN – KEC	REVISED –
	PLOT DATE = 8/27/2018	CHECKED – RA/MLK	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS 2
STRUCTURE NO. 099-3072
SHEET NO. S-11 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	36
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		



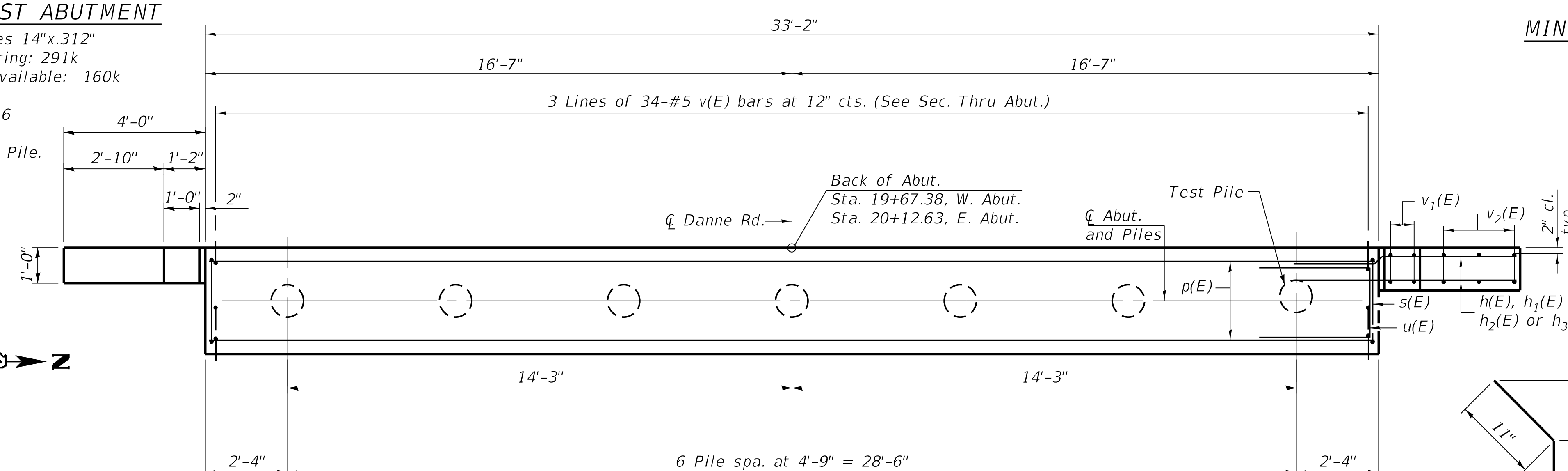


PILE DATA - WEST ABUTMENT

Type: Metal Shell Piles 14"x.312"
Nominal Required Bearing: 291k
Factored Resistance Available: 160k
Est. Length: 63'
No. Production Piles: 6
No. Test Piles: 1
North Pile is the Test Pile.

PILE DATA - EAST ABUTMENT

Type: Metal Shell Piles 14"x.312"
Nominal Required Bearing: 291k
Factored Resistance Available: 160k
Est. Length: 61'
No. Production Piles: 6
No. Test Piles: 1
South Pile is the Test Pile.



PLAN

(Showing W. Abut., E. Abut. is similar but mirrored)

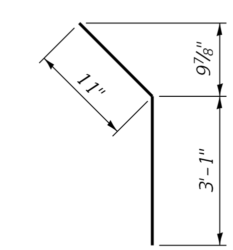
MINIMUM BAR LAP

#5 Bar = 3'-2"

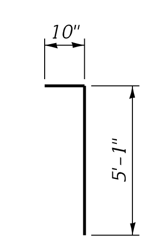
TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	6'-10"	
$h_1(E)$	8	#5	3'-6"	
$h_2(E)$	8	#5	4'-0"	
$h_3(E)$	12	#5	4'-3"	
p(E)	22	#7	32'-10"	
s(E)	72	#5	12'-7"	
$s_1(E)$	28	#5	3'-8"	
u(E)	16	#6	10'-3"	
v(E)	204	#5	5'-11"	
$v_1(E)$	16	#5	5'-4"	
$v_2(E)$	12	#5	8'-8"	

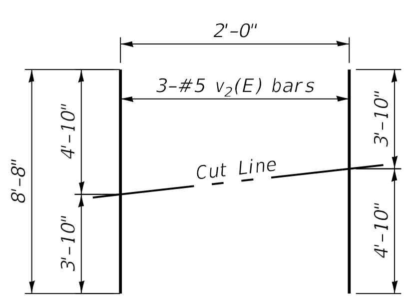
Item	Unit	Quantity
Structure Excavation	Cu. Yd.	253
Concrete Structures	Cu. Yd.	28.9
Reinforcement Bars, Epoxy Coated	Pound	4,580
Furnishing Metal Shell Piles 14"x0.312"	Foot	744
Driving Piles	Foot	744
Test Pile Metal Shells	Each	2
Pile Shoes	Each	14
Granular Backfill for Structures	Cu. Yd.	790
Geocomposite Wall Drain	Sq. Yd.	33
Pipe underdrain for Structures, 4"	Foot	103



BAR $h_2(E)$

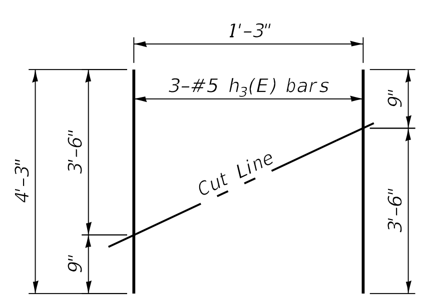


BAR v(E)



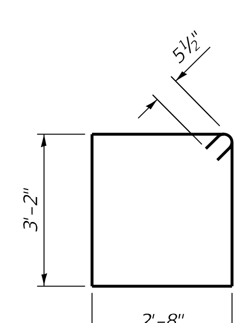
FIELD CUTTING DIAGRAM

Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.

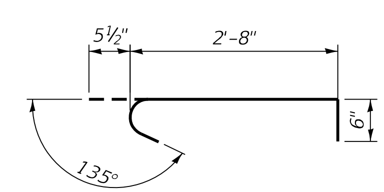


FIELD CUTTING DIAGRAM

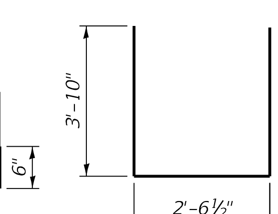
Order $h_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)



BAR $s_1(E)$



BAR u(E)

Note:

1. For details of piles see sheet S-13 of S-17.
2. For drainage details, see sheet S-2 of S-17.

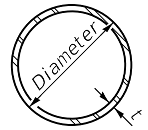
N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-12-sht-Abutment Details.dgn

ENGINEERING CONSULTANT	USER NAME = mdaboub	DESIGNED - KEC	REVISED -
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com		CHECKED - RA/MLK	REVISED -
	PLOT SCALE = 0:2.0000 ':' / in.	DRAWN - KEC	REVISED -
	PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

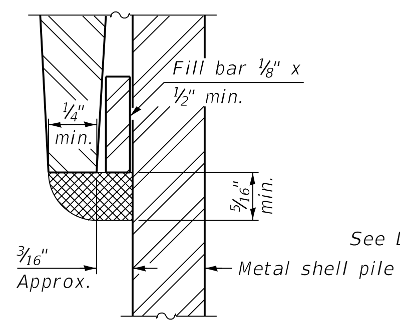
ABUTMENT DETAILS
STRUCTURE NO. 099-3072
SHEET NO. S-12 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	37
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

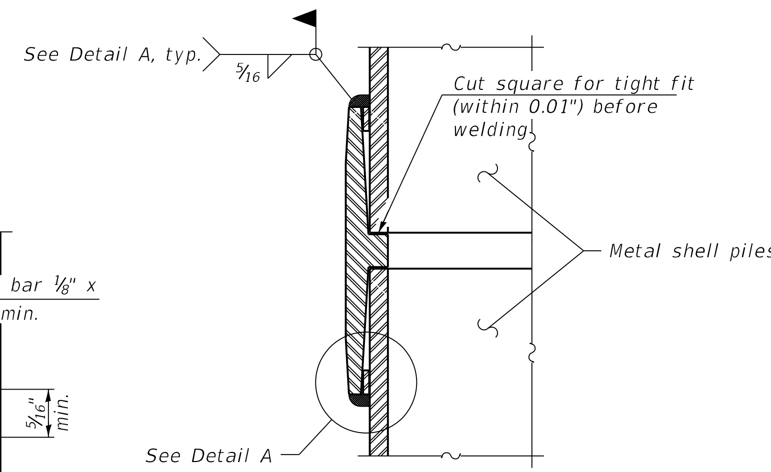


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

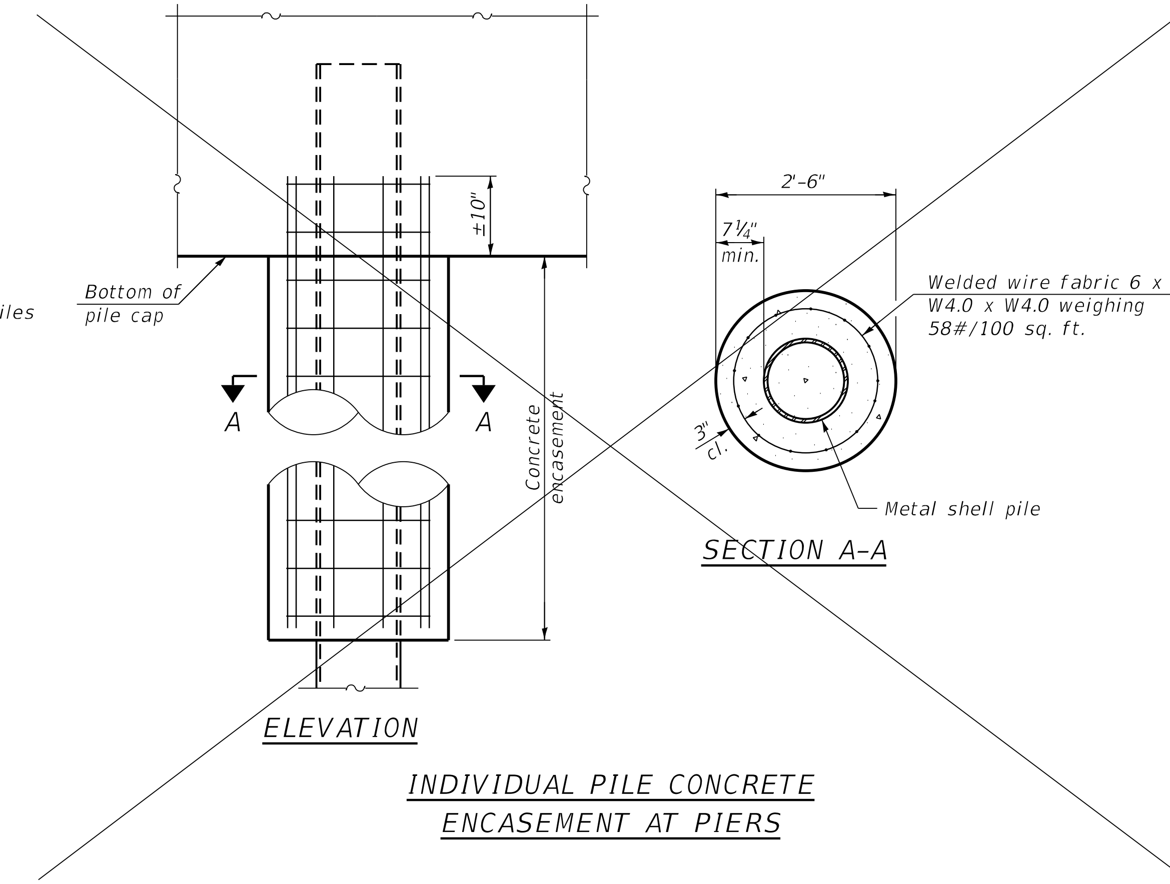


DETAIL A

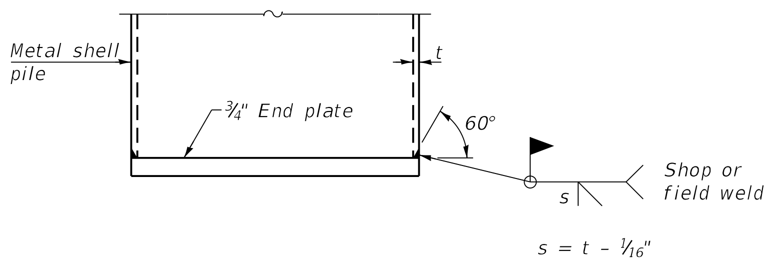


WELDED COMMERCIAL SPLICE

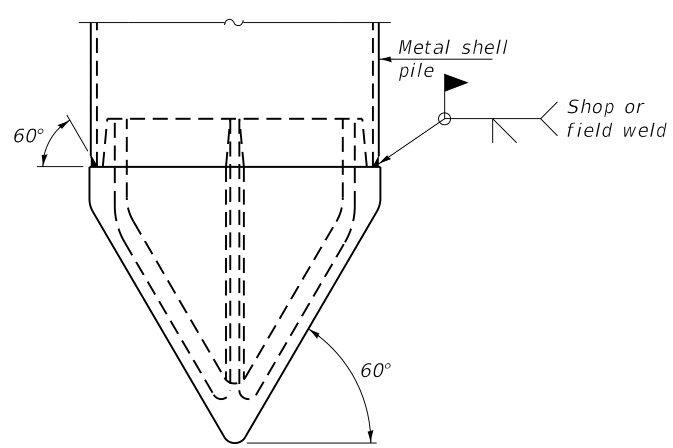
Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS

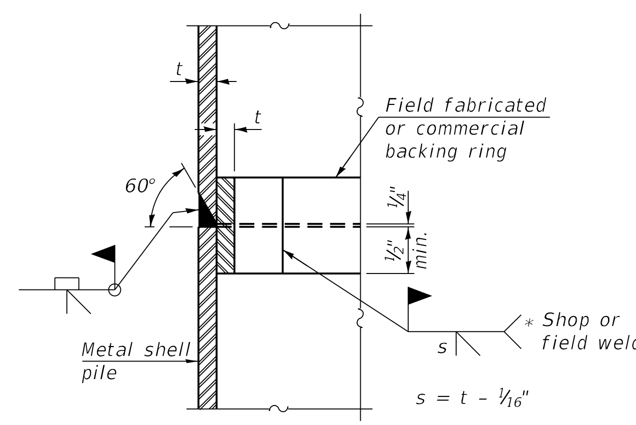


END PLATE ATTACHMENT



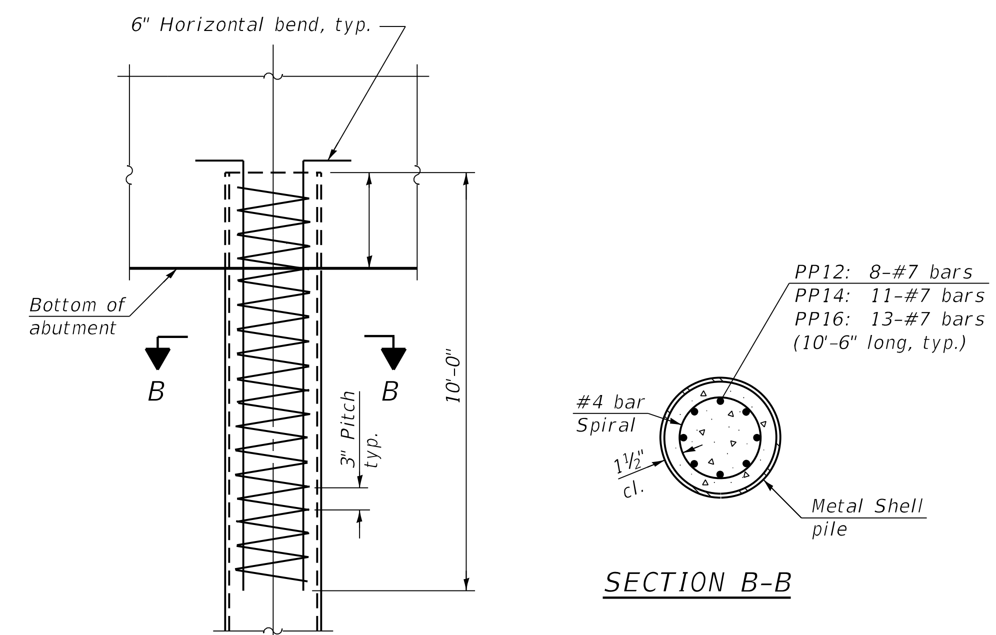
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 8-11-2017

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-13-sht-Metal Shell Pile Details.dgn

ENGINEERING CONSULTANT: Ciorba Group, Inc. CONSULTING ENGINEERS	USER NAME = mdaboub	DESIGNED - KEC	REVISED -
		CHECKED - RA/MLK	REVISED -
	PLOT SCALE = 0:2.0000 ':' / in.	DRAWN - KEC	REVISED -
	PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 099-3072
SHEET NO. S-13 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	38
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 1

Client Ciorba Group, Inc. Sheet 1 of 4

Project Danne Road Bridge over branch of Plum Creek Date 8/27/14

Location Crete Township, IL Drilled By DB & SD

Comments: Station 9+63, 5' Lt. of CL; S.N. 099-3174

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Elev., ft. 676.6' Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
Bituminous concrete - 9.0"	0									
Limestone,damp,medium dense - 33.0"		1	SS	16"	20 11 8	19		5.0		
673.1'										
Dark brown-gray-black silt,sone clay,trace sand & gravel,damp-very damp,loose - Fill	5	2	SS	14"	4 3 3	6		19.4		
		3	SS	18"	2 3 3	6		27.5		
667.1'		4			2 2			31.4		
Gray clay,some silt,trace sand & gravel,very damp,tough - Fill	10	5	SS	18"	3	5	0.75	29.0	92.8	1.1
666.1'										
Black organic silt,damp,very loose (topsoil)		6			2 2			136.3		
665.1'										
Dark brown to brown organic peat, very damp,very loose		7	SS	18"	2	4		230.6		
	15	8	SS	18"	1 1 1	2		170.7		
660.1'										
Green-brown organic silt,very damp		9	SS	18"	1	1		122.2		
658.1'										
Gray clay,some silt,trace fine sand,very damp,very soft										
656.6'	20	10	SS	18"	1	1	0.0	59.9		

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level — depth, ft. elev., ft.
- while drilling: 18.5 ____
- after drilling: 17.0 ____
- hrs. after drilling: ____ ____

F-111b

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 1

Client Ciorba Group, Inc. Sheet 2 of 4

Project Danne Road Bridge over branch of Plum Creek Date 8/27/14

Location Crete Township, IL Drilled By DB & SD

Comments:

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Elev., ft. Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
Gray clay,some silt,trace fine sand,very damp,very soft	20									
		11	SS	18"	1	1	0.0	51.9		
	25	12	SS	18"	1	1	0.0	55.7		
		13	SS	18"	1	1	0.0	52.5		
647.6'										
Gray silt,some clay,trace fine sand,very damp	30	14	SS	18"	2 3	5		22.4		
644.6'										
Brown clay,some silt,trace sand & gravel,damp,very tough					4 6					
	35	15	SS	18"	9	15	3.0	18.9	110.1	2.5
638.1'										
Gray clay,some silt,trace sand & gravel,damp,very tough					5 6					
636.6'	40	16	SS	18"	8	14	3.0	18.5	113.4	3.2

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level — depth, ft. elev., ft.
- while drilling: 18.5 ____
- after drilling: 17.0 ____
- hrs. after drilling: ____ ____

F-111b

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 1

Client Ciorba Group, Inc. Sheet 3 of 4

Project Danne Road Bridge over branch of Plum Creek Date 8/27/14

Location Crete Township, IL Drilled By DB & SD

Comments:

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Elev., ft. Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
Gray clay,some silt,trace sand & gravel,damp,very tough	40									
631.6'					3 5					
Gray silt,some clay,trace sand & gravel,damp,medium dense	45	17	SS	18"	7	12	2.75	19.5	112.4	3.0
627.6'					6					
Gray clay,some silt,trace sand & gravel,damp,tough	50	18 19	SS	18"	5 7	12	2.5	12.6 13.9	126.6	1.7
					4 5					
	55	20	SS	18"	7	12	2.0	15.3	122.0	1.7
618.1'										
Brown fine sand,very damp,loose					1 1					
616.6'	60	21	SS	18"	4	5		19.0		

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level — depth, ft. elev., ft.
- while drilling: 18.5 ____
- after drilling: 17.0 ____
- hrs. after drilling: ____ ____

F-111b

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-14-sht-Boring Log 1.dgn

ENGINEERING CONSULTANT

Ciorba Group, Inc.
CONSULTING ENGINEERS
8501 North Cumberland Avenue
Suite 402 - Chicago, Illinois 60656
Tel 773.775.4000
Fax 773.775.4014
E-mail chicago@ciorba.com

USER NAME = mdaboub	DESIGNED - KEC	REVISED -	
	CHECKED - RA/MLK	REVISED -	
PLOT SCALE = 0±2.0000 '' / in.	DRAWN - KEC	REVISED -	
PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG 1
STRUCTURE NO. 099-3072
SHEET NO. S-14 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	39
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 1

Client Ciorba Group, Inc. Sheet 4 of 4

Project Danne Road Bridge over branch of Plum Creek Date 8/27/14

Location Crete Township, IL Drilled By DB & SK

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Comments

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray silt,some clay,trace sand & gravel,damp,very dense	60									
						18					
						26					
		65	22	SS	18"	32	58		9.7		
609.6'											
	Gray fine sand,very damp-saturated,medium dense										
						4					
						6					
		70	23	SS	18"	8	14		11.2		
						5					
601.6'						8					
		75	24	SS	18"	10	18		19.1		
	End of Boring										
		80									

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level —	depth, ft.	elev., ft.
- while drilling:	18.5	
- after drilling:	17.0	
- hrs. after drilling:		

F-111b

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 2

Client Ciorba Group, Inc. Sheet 1 of 4

Project Danne Road Bridge over branch of Plum Creek Date 8/28/14

Location Crete Township, IL Drilled By DB & AC

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Comments Station 10+15, 5' Rt. of CL

S.N. 099-3174

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
676.7'	Bituminous concrete - 8.0"	0									
	Limestone,damp,medium dense - 34.0"					8					
			1	SS	18"	5	12		5.6		
673.2'						7					
	Brown-gray-black clay,some silt, trace sand,damp-very damp,very tough to tough - Fill					2					
		5	2	SS	18"	2	5	1.5	20.5	104.6	2.0
						3					
						2					
						2					
			3	SS	18"	3	7	1.0	23.9	96.7	1.2
						4					
667.7'						2					
	Black silt,some clay,trace organic matter,damp,loose					2					
		10	4	SS	18"	3	5		85.1		
665.7'											
	Dark brown to brown organic peat,very damp,very loose					1					
						1					
			5	SS	18"	1	2		317.2		
						1					
		15	6	SS	18"	1	2		310.9		
660.7'											
	Green-brown organic silt,very damp-saturated,very loose										
			7	SS	18"	1	1		202.8		
658.7'											
	Gray clay,some silt,trace fine sand,very damp-saturated,very soft										
656.7'		20	8	SS	18"	1	1	0.0	61.8		

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level —	depth, ft.	elev., ft.
- while drilling:	16.0	
- after drilling:	10.0	
- hrs. after drilling:		

F-111b

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 2

Client Ciorba Group, Inc. Sheet 2 of 4

Project Danne Road Bridge over branch of Plum Creek Date 8/28/14

Location Crete Township, IL Drilled By DB & AC

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Comments

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay,some silt,trace fine sand,very damp-saturated,very soft	20									
			9	SS	18"	1	1	0.0	58.7		
		25	10	SS	18"	1	1	0.0	48.8		
650.2'											
	Gray silt,some clay,trace fine sand,very damp,very loose					2					
			11	SS	18"	2	4		22.1		
648.7'											
	Brown clay,some silt,trace sand & gravel,damp,hard					3					
						6					
		30	12	SS	18"	8	14	3.5	18.4	115.4	4.7
643.2'											
	Gray clay,some silt,trace sand & gravel,damp,very tough					4					
						7					
		35	13	SS	18"	9	16	3.75	18.3	113.4	3.3
636.7'											
						3					
						5					
		40	14	SS	18"	6	11	1.75	19.2	111.8	2.5

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level —	depth, ft.	elev., ft.
- while drilling:	16.0	
- after drilling:	10.0	
- hrs. after drilling:		

F-111b

N:\PROJ\00220195.00\0020195.02\Design\Structural\CAD\0020195-15-sht-Boring Log 2.dgn

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5007 North Cumberland Avenue
Suite 402 Chicago, Illinois 60656
Tel 773.775.4000
Fax 773.775.4014
Email chicago@ciorba.com

USER NAME = mdaboub	DESIGNED – KEC	REVISED –
	CHECKED – RA/MLK	REVISED –
PLOT SCALE = 0±2.0000 '1' / in.	DRAWN – KEC	REVISED –
PLOT DATE = 8/27/2018	CHECKED – RA/MLK	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG 2
STRUCTURE NO. 099-3072
SHEET NO. S-15 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	40
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 2

Client Ciorba Group, Inc. Sheet 3 of 4

Project Danne Road Bridge over branch of Plum Creek Date 8/28/14

Location Crete Township, IL Drilled By DB & AC

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Comments

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay,some silt,trace sand & gravel,damp,tough										
634.7'											
	Gray silt,some clay,trace sand & gravel,damp,medium dense					4					
		45	15	SS	18"	8 9	17		11.0		
629.7'											
	Brown clay & silt,trace sand & gravel,damp,hard					10					
		50	16	SS	18"	24 26	50	4.5+	10.1	124.8	5.1
624.7'											
	Gray clay & silt,trace sand & gravel,damp,very tough										
622.7'			17	SS		2		1.5	12.8	132.5	2.3
	Gray fine sand,very damp-saturated,loose	55	18	SS	18"	3 5	8		20.7		
619.7'											
	Gray silt,some clay,trace sand & gravel,damp,dense										
						15					
616.7'		60	19	SS	18"	18 23	41		10.1		

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level — depth, ft. elev., ft.
- while drilling: 16.0 ____
- after drilling: 10.0 ____
- hrs. after drilling: ____ ____

F-111b

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 2

Client Ciorba Group, Inc. Sheet 4 of 4

Project Danne Road Bridge over branch of Plum Creek Date 8/28/14

Location Crete Township, IL Drilled By DB & AC

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Comments

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray silt,some clay,trace sand & gravel,damp,dense										
						10					
611.7'		65	20	SS	18"	17 16	33		10.6		
	Gray fine sand,very damp,medium dense										
						5					
		70	21	SS	18"	7 9	16		17.9		
						6					
		75	22	SS	18"	8 11	19		14.8		
601.7'	End of Boring										
		80									

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - cry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level — depth, ft. elev., ft.
- while drilling: 16.0 ____
- after drilling: 10.0 ____
- hrs. after drilling: ____ ____

F-111b

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 4

Client Ciorba Group, Inc. Sheet 1 of 1

Project Danne Road Bridge over branch of Plum Creek Date 8/27/14

Location Crete Township, IL Drilled By AC

Equipment ☒CME 45B ☐H.A. ☐Other Logged By DA

Comments Station 9+23, 5' Rt. of CL

S.N. 099-3174

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
676.3'	Bituminous concrete - 4.0"										
	Limestone,damp,medium dense - 26.0"					14					
673.8'			1	SS	15"	20 9	29		5.8		
	Dark gray-black clay & silt,trace sand,damp,very tough - Fill					4					
		5	2	SS	12"	7 7	14	3.5	15.7	117.8	3.2
670.8'											
	Dark brown-gray-black clay,some silt,trace sand & gravel,damp, tough - Fill					2					
			3	SS	18"	3 4	7	1.5	21.9	103.0	1.8
668.3'											
	Black organic silt,very damp,very loose					1					
			4	SS	18"	1 1	2		146.4		
666.3'	End of Boring	10									
		15									
		20									

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level — depth, ft. elev., ft.
- while drilling: dry ____
- after drilling: dry ____
- hrs. after drilling: ____ ____

F-111b

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-16-sht-Boring Log 3.dgn

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue
Suite 402 Chicago, Illinois 60656
Tel: 773.775.4099
Fax: 773.775.4088
Email: chicago@ciorba.com

USER NAME = mdaboub | DESIGNED – KEC | REVISED –
CHECKED – RA/MLK | REVISED –
PLOT SCALE = 0:2.0000 ':' / in. | DRAWN – KEC | REVISED –
PLOT DATE = 8/27/2018 | CHECKED – RA/MLK | REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG 3
STRUCTURE NO. 099-3072
SHEET NO. S-16 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	41
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

SOIL AND MATERIAL CONSULTANTS, INC.

File No. 21615 **BORING LOG** 5

Client: Ciorba Group, Inc. Sheet 1 of 1

Project: Danne Road Bridge over branch of Plum Creek Date: 8/28/14

Location: Crete Township, IL Drilled By: AC

Equipment: ☒ CME 45B ☐ H.A. ☐ Other Logged By: DA

Comments:
Station 10+37, 5' Lt. of CL
S.N. 099-3174

Elev., ft. 676.5'	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Bituminous concrete - 4.0"	0									
674.5'	Limestone, damp, medium dense - 20.0"		1			11 12			4.9		
	Dark brown-gray-black clay, some silt, trace sand, damp-very damp, very tough to stiff - Fill		2	SS	15"	5	17	2.25	19.4		
		5	3	SS	18"	3 6 8	14	3.0	16.6	114.4	3.5
			4	SS	18"	2 2 3	5	1.0	23.5	103.8	1.0
667.0'			5			2 2		1.0	33.4	87.0	0.7
666.5'	(a) see below	10	6	SS	18"	3	5		47.9		
	End of Boring										
	(a) Black silt, some clay & organic matter, very damp, loose										
		15									
		20									

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft.. Uw - dry unit weight of soil, lbs./ cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft..

Water Level —	depth, ft.	elev., ft.
- while drilling:	dry	
- after drilling:	dry	
- hrs. after drilling:		

F-111b

N:\PROJ\0020195.00\0020195.02\Design\Structural\CAD\0020195-17-sht-Boring Log 4.dgn

ENGINEERING CONSULTANT	USER NAME = mdaboub	DESIGNED - KEC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOG 4 STRUCTURE NO. 099-3072
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com		CHECKED - RA/MLK	REVISED -		
	PLOT SCALE = 0:2.0000 ':' / in.	DRAWN - KEC	REVISED -		
	PLOT DATE = 8/27/2018	CHECKED - RA/MLK	REVISED -		SHEET NO. S-17 OF S-17 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	42
		CONTRACT		61F15
		ILLINOIS FED. AID PROJECT		

NOTES: ALL CONSTRUCTION TO BE DONE ACCORDING TO THE MOST RECENT VERSION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"

REMOVE SHOULDER MATERIAL, INSTALL 12" AGGREGATE BASE COURSE, AND PAVE WITH 2 1/2" BITUMINOUS SURFACE COURSE TO THE PROPOSED ROW LINE

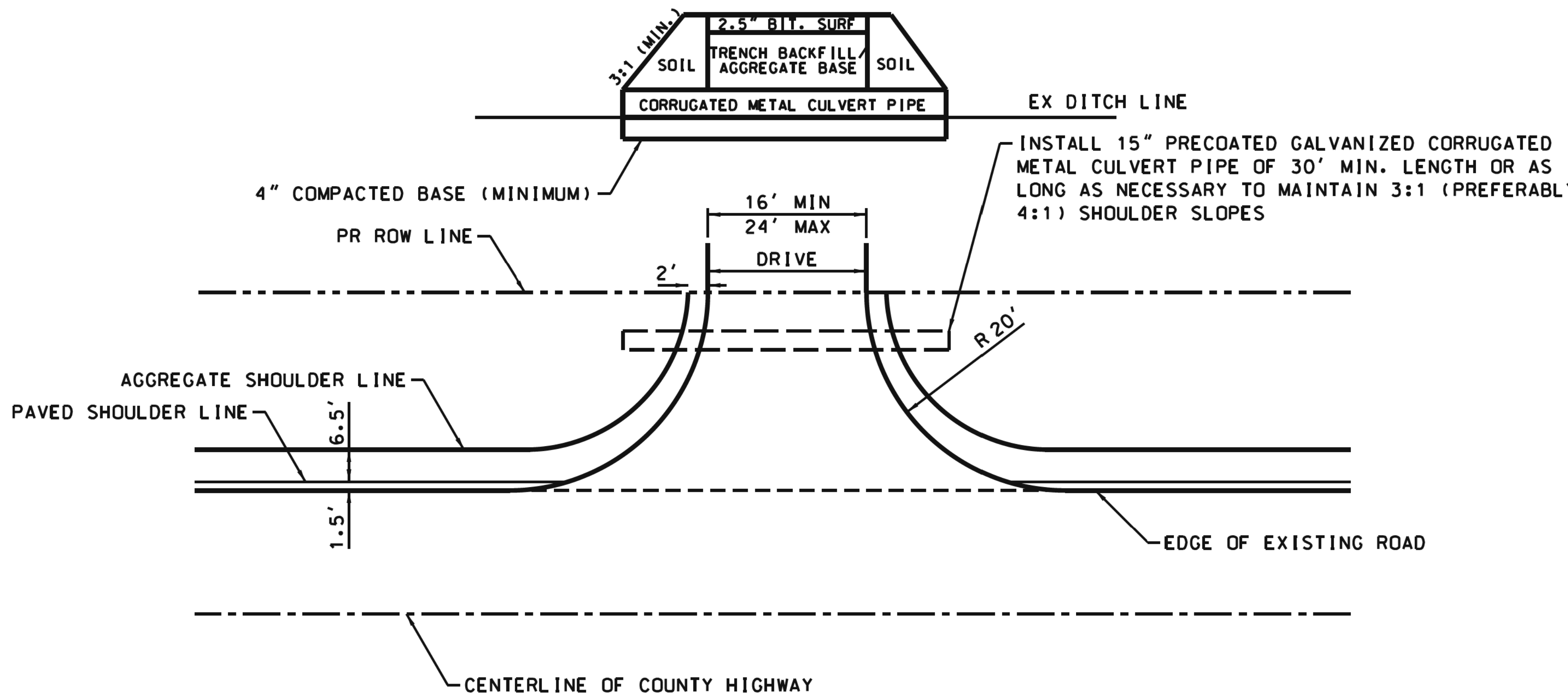
SAWCUT EXISTING PAVEMENT AT WHITE EDGE LINE: MINIMUM OF 6" FROM THE EDGE OF PAVEMENT

ALL DISTRUBED GROUND WITHIN THE COUNTY RIGHT OF WAY SHALL BE RE-SEEDED, FERTILIZED, AND EXCELSIOR BLANKET INSTALLED TO THE SATISFACTION OF THE WILL COUNTY DIVISION OF TRANSPORTATION AND IEPA REQUIREMENTS

PAVEMENT TO SLOPE AWAY FROM THE COUNTY HIGHWAY AT A RATE OF 1/4" PER FOOT (2%) MINIMUM

ALL GROUND AREAS DISTURBED SHALL BE RESEEDED AND MULCHED OR JUTE MATTED AS SOON AFTER CONSTRUCTION AS POSSIBLE.

A PAVED MAILBOX SHOULDER TURNOUT MUST BE CONSTRUCTED ACCORDING TO IDOT BLR 24-2.



WC-00432

WILL COUNTY DIVISION OF TRANSPORTATION	MINIMUM ACCESS DETAIL ON NON-CURBED ROAD	DATE	REVISIONS
		7/2/2015	WCDOT REVISION
		9/8/2006	REVISED

ENGINEERING CONSULTANT	USER NAME = mdaboub	DESIGNED -	REVISED -
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 10/3/2018	DATE - 10/3/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

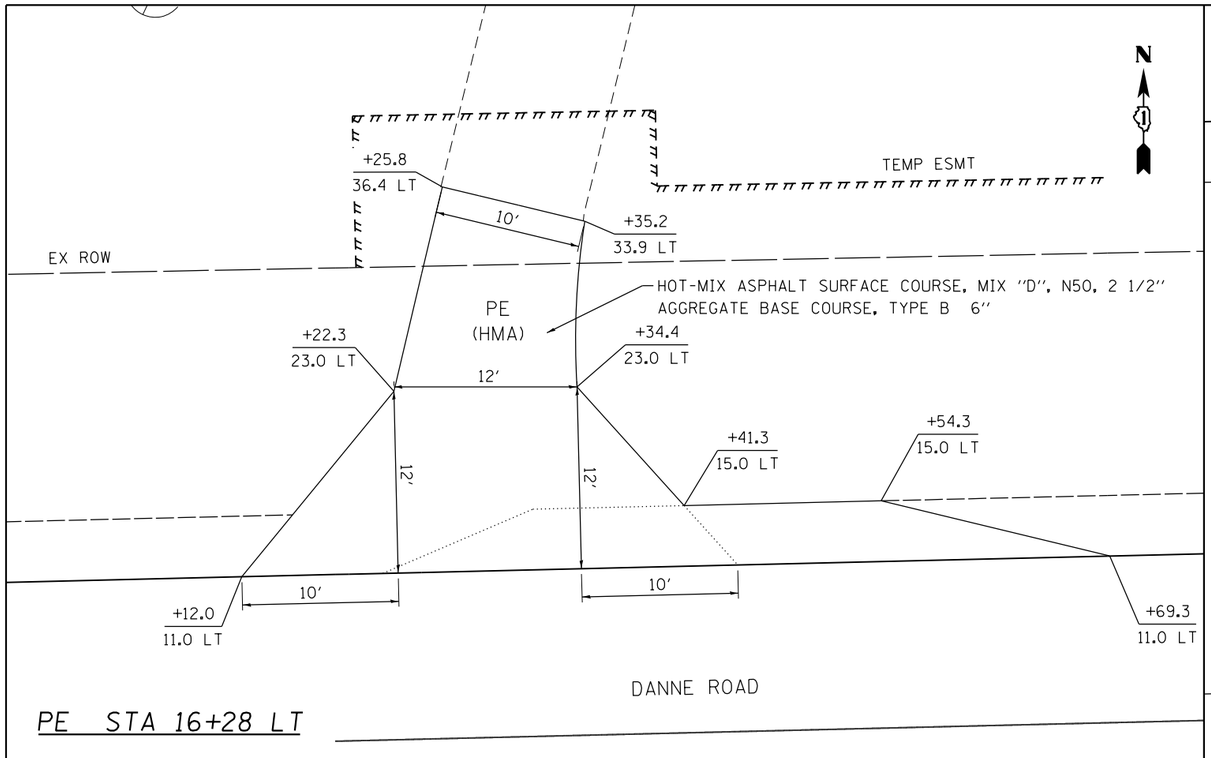
DETAILS

SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

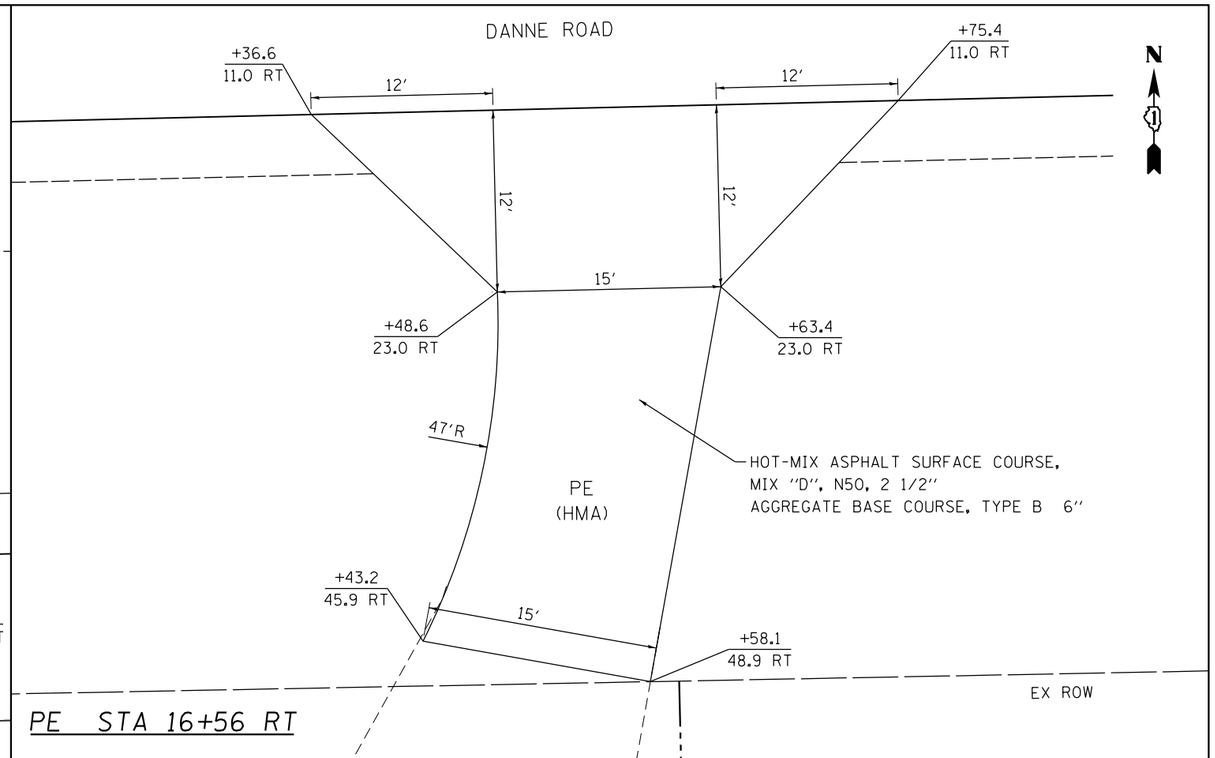
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	43
		CONTRACT 61F15		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

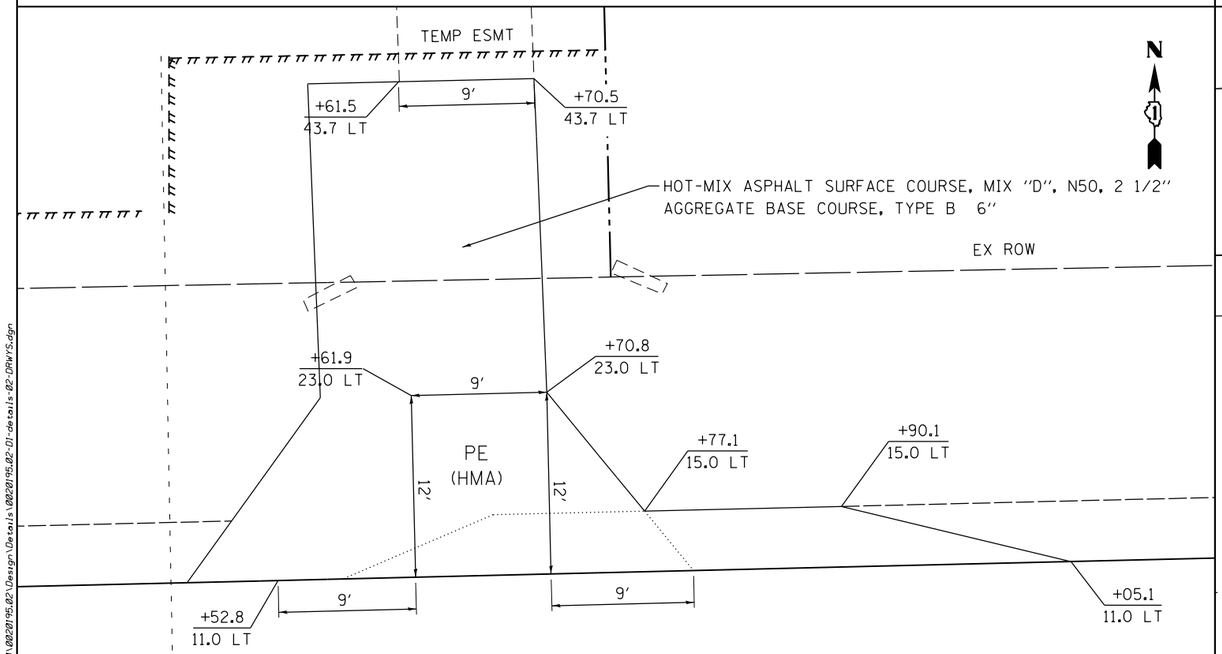
DATE PLOTTED = 10/3/2018 3:54:05 PM
PEN TABLE = $PENTBLS$
PLOT CONFIG = $PLTDRVL$
FILE NAME = N:\PROJ\0020\95.00\0020\95.02\Design\Details\0020\95.02-01-details-01-8001.dgn



PE STA 16+28 LT



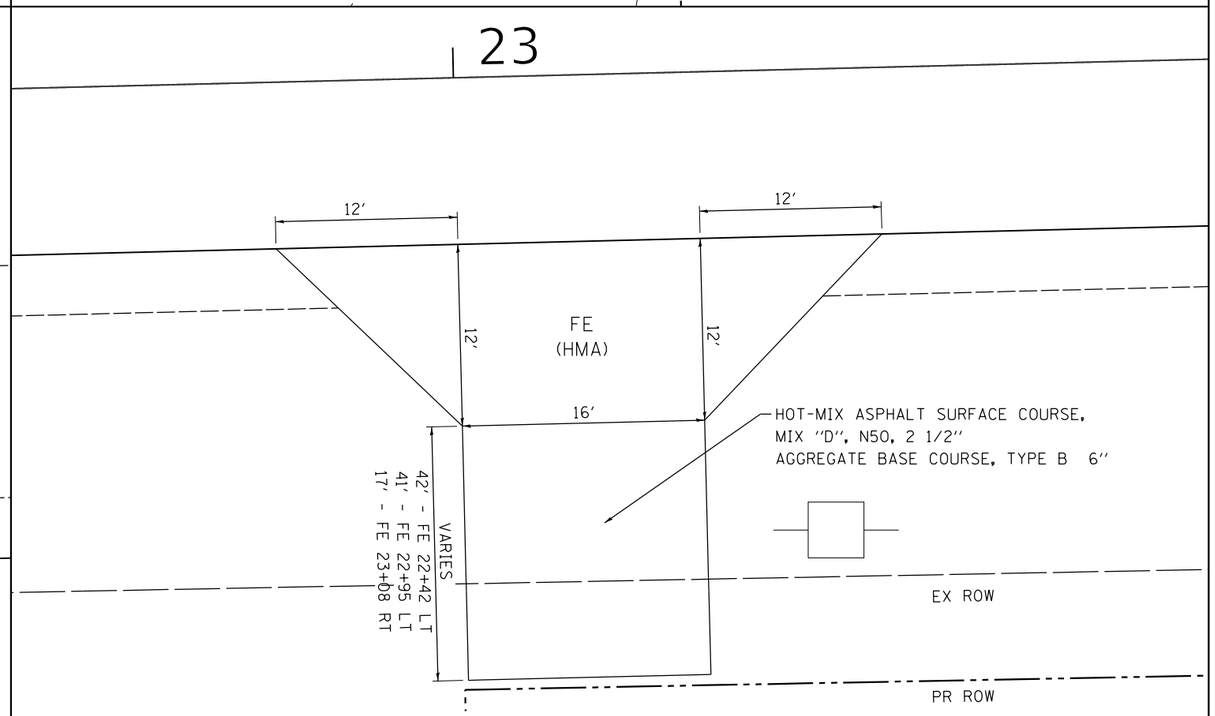
PE STA 16+56 RT



PE STA 17+66 LT

18

23

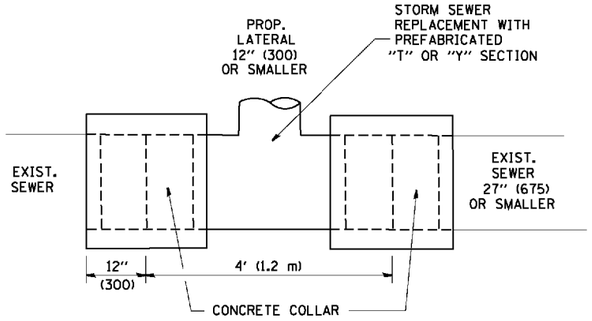


FIELD ENTRANCE DETAIL (TYP)

DATE PLOTTED = 8/9/2019 8:47:43 AM
PEN TABLE = #PENTBL.tbl
PLOT TABLE = #PLOTTBL.tbl
FILE NAME = N:\PROJ\02201195.00\02201195.02\Design\Details\02201195.02-D1-details-B2-DRWYS.dgn

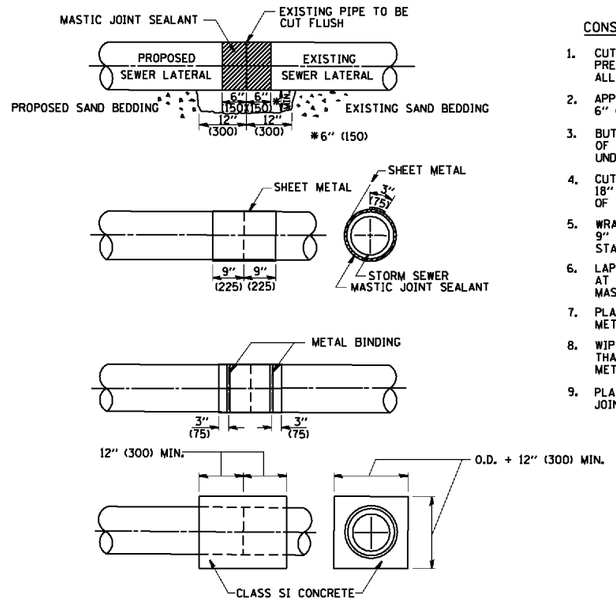
ENGINEERING CONSULTANT					
Clorba Group, Inc. CONSULTING ENGINEERS 3507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4099 Fax 773.775.4014 Email chicago@clorba.com	USER NAME = lmattson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS
		DRAWN -	REVISED -		
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -		SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.
	PLOT DATE = 8/9/2019	DATE - 8/9/2019	REVISED -		

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	44
		CONTRACT		61F15
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

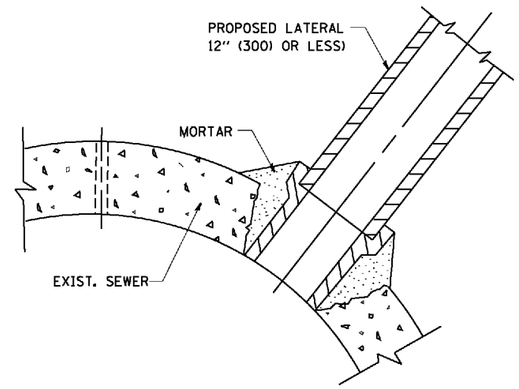


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

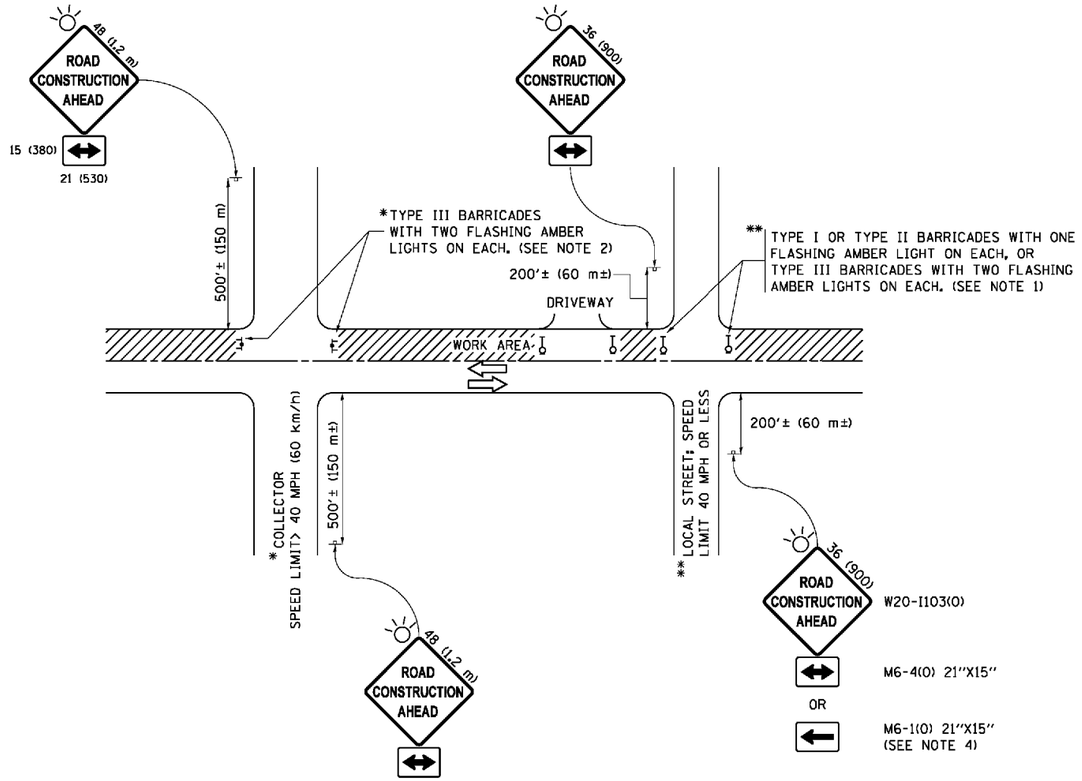
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

FILE NAME = W:\distsvc\22x34\bd07.dgn	USER NAME = gagliamobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. SHAH 09-09-94					221	13-02113-01-BR	WILL	56	45
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94						BD500-01 (BD-7)	CONTRACT NO.		61F15
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

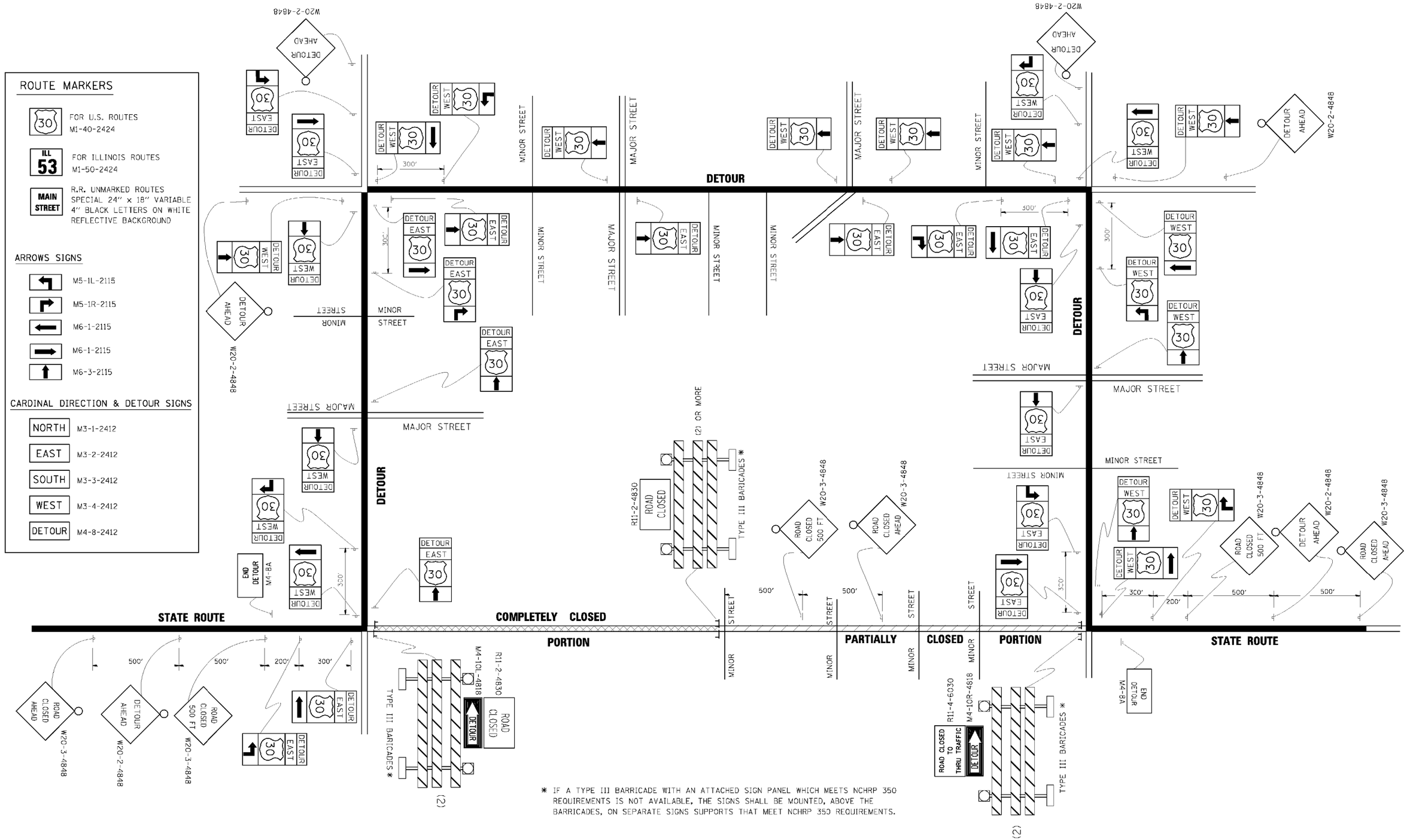
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\Default	USER NAME = footerj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	PLOT SCALE = 50.000 ' / in.	DRAWN - CADData\CADsheets\tc10.dgn	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 9/15/2016	CHECKED -	REVISED - A. SCHUETZE 07-01-13
		DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	46
	TC-10	CONTRACT NO. 61F15		
	ILLINOIS FED. AID PROJECT			



ROUTE MARKERS

30	FOR U.S. ROUTES M1-40-2424
ILL 53	FOR ILLINOIS ROUTES M1-50-2424
MAIN STREET	R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

↰	M5-1L-2115
↱	M5-1R-2115
←	M6-1-2115
→	M6-1-2115
↑	M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

NORTH	M3-1-2412
EAST	M3-2-2412
SOUTH	M3-3-2412
WEST	M3-4-2412
DETOUR	M4-8-2412

* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME - c:\pw_work\PWIDOT\DRIVAKOSGN\d0100315\tc21.dgn	USER NAME - drivakosgn	DESIGNED -	REVISED - 10-18-02
		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE - 49.9999 ' / IN.	CHECKED -	REVISED -
	PLOT DATE - 9/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

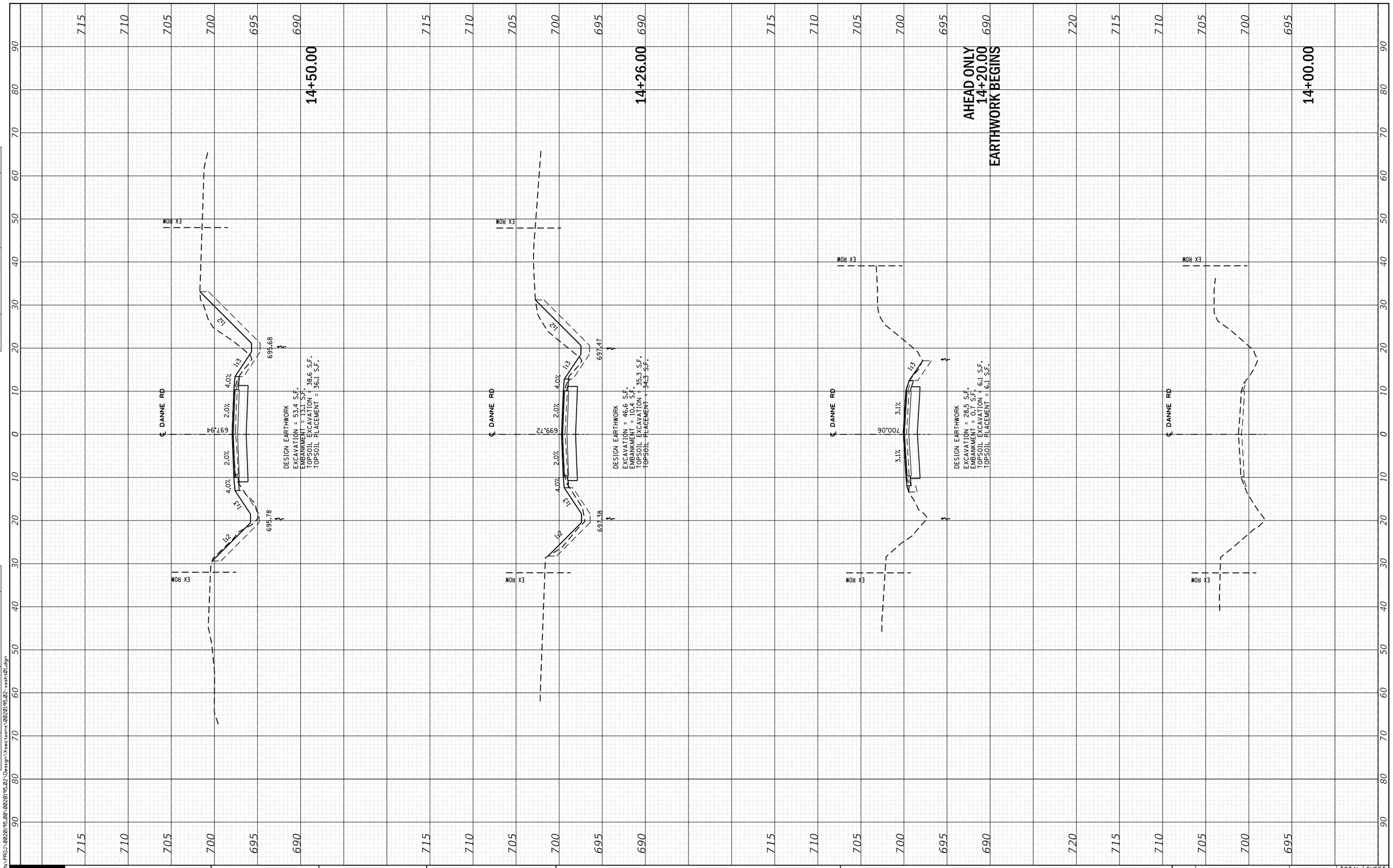
DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS

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

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	47
TC-21		CONTRACT NO. 61F15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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

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



FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Xsections\0020195_02-xsh101.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

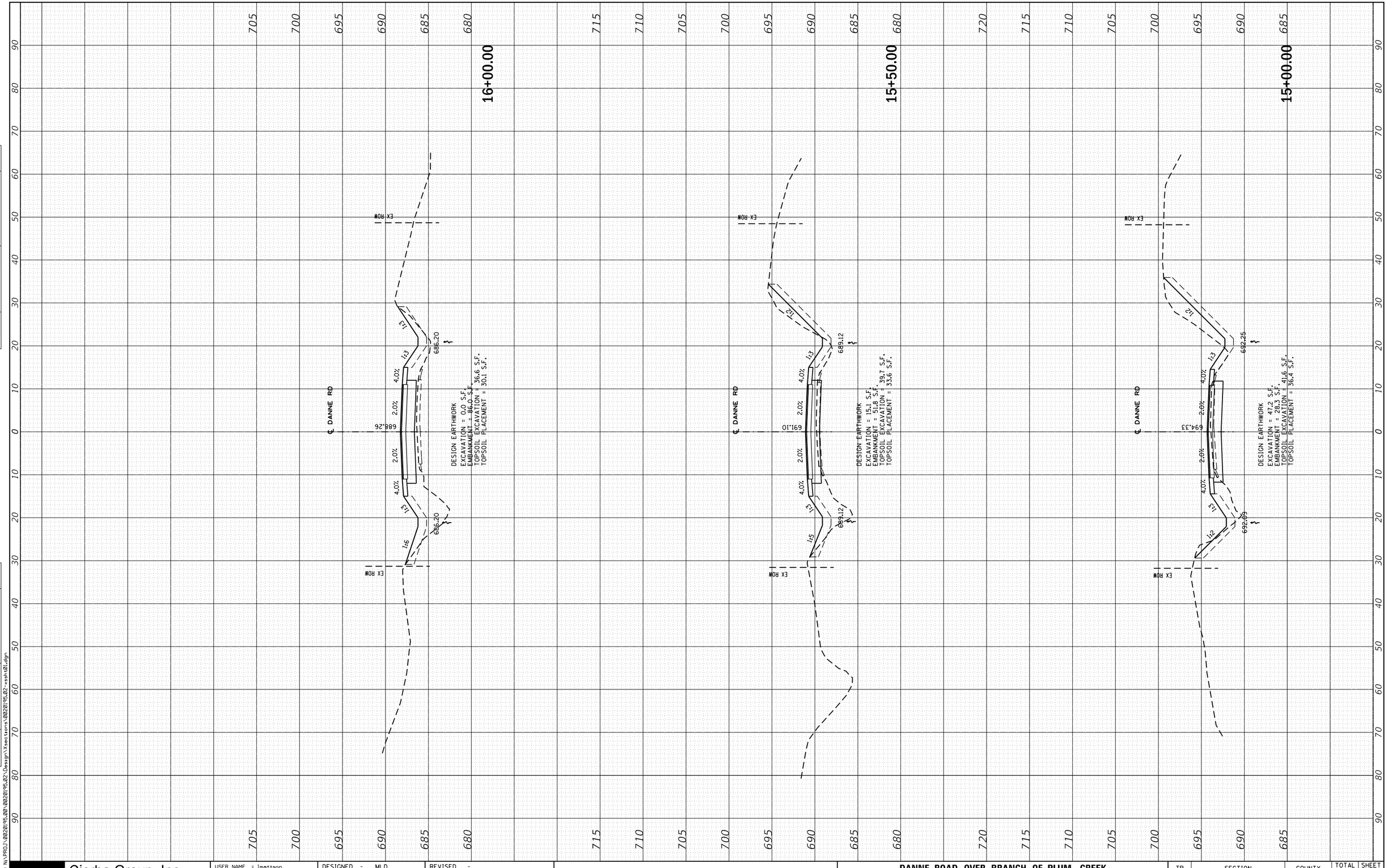
SCALE: | SHEET NO. OF SHEETS | STA. 14+00.00 | TO STA. 14+50.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	48
		CONTRACT NO. 61F15		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

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

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



FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Xsections\0020195.02-xsh01.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 15+00.00 | TO STA. 16+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	49
		CONTRACT NO. 61F15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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

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

FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Xsections\0020195.02-xsh01.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 16+30.00 | TO STA. 17+65.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	50
		CONTRACT NO. 61F15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

AHEAD ONLY
19+38.32

19+38.32
BACK ONLY

19+00.00

18+50.00

18+00.00

℄ DANNE RD

EX ROW

PR ROW

DESIGN EARTHWORK
EXCAVATION = 0.0 S.F.
EMBANKMENT = 176.5 S.F.
TOPSOIL EXCAVATION = 37.0 S.F.
TOPSOIL PLACEMENT = 25.6 S.F.

DESIGN EARTHWORK
EXCAVATION = 0.0 S.F.
EMBANKMENT = 173.5 S.F.
TOPSOIL EXCAVATION = 37.0 S.F.
TOPSOIL PLACEMENT = 25.6 S.F.

DESIGN EARTHWORK
EXCAVATION = 0.0 S.F.
EMBANKMENT = 144.1 S.F.
TOPSOIL EXCAVATION = 34.5 S.F.
TOPSOIL PLACEMENT = 21.5 S.F.

DESIGN EARTHWORK
EXCAVATION = 25.9 S.F.
EMBANKMENT = 176.0 S.F.
TOPSOIL EXCAVATION = 78.8 S.F.
TOPSOIL PLACEMENT = 52.2 S.F.

DESIGN EARTHWORK
EXCAVATION = 122.9 S.F.
EMBANKMENT = 83.7 S.F.
TOPSOIL EXCAVATION = 87.8 S.F.
TOPSOIL PLACEMENT = 82.1 S.F.

679.43 679.43 679.52 679.99 680.86

672.10 673.29 673.95 673.95

2.0% 4.0% 1:2 1:10

685 680 675 670 690

0 10 20 30 40 50 60 70 80 90

FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Xsections\0020195.02-xsh01.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

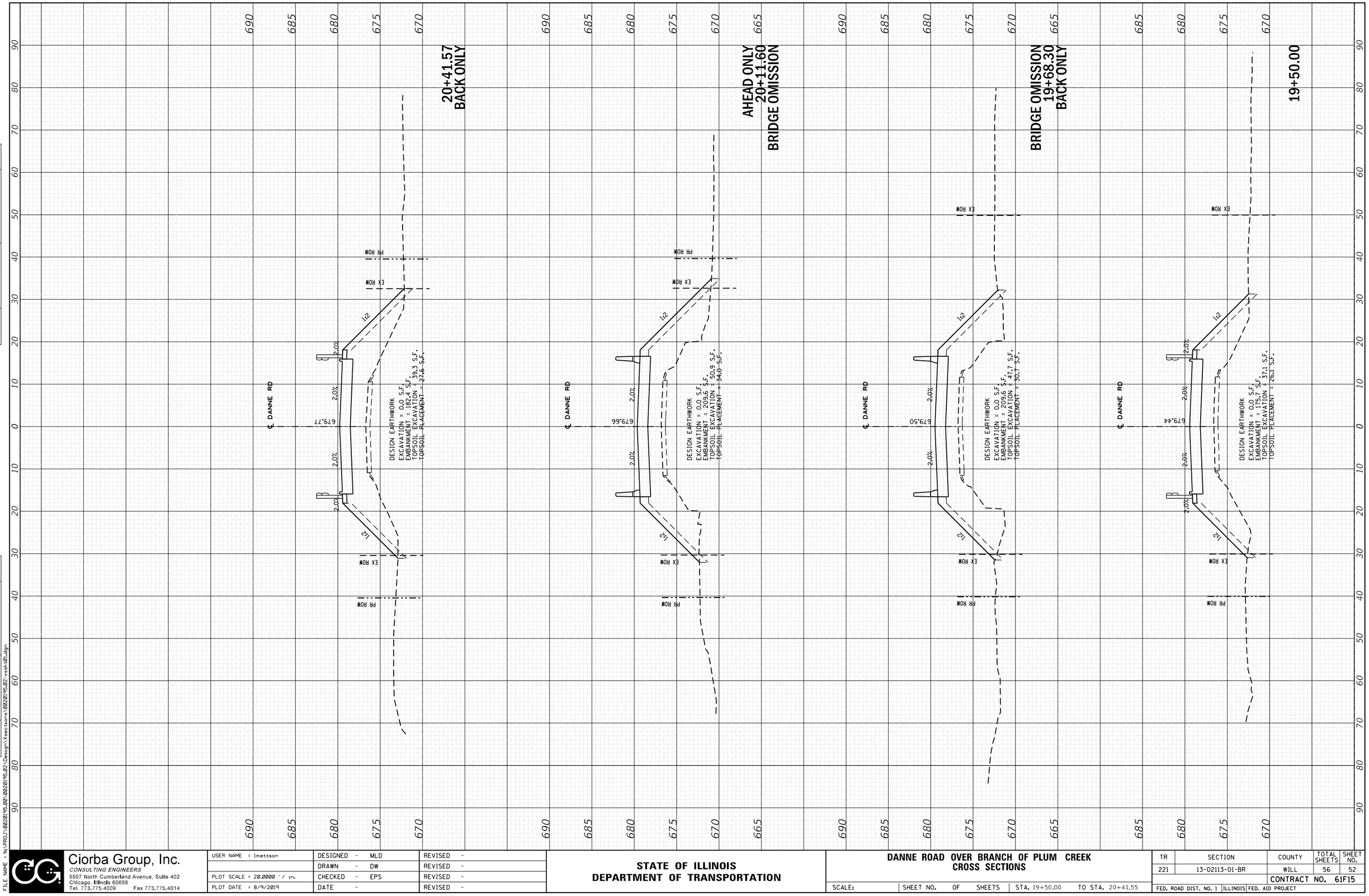
DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 18+00.00 | TO STA. 19+38.34

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	51
		CONTRACT NO. 61F15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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

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



FILE NAME = N:\PROJ\02020195.00\02020195.02\Design\Xsections\02020195_02-xssht01.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 19+50.00 TO STA. 20+41.55

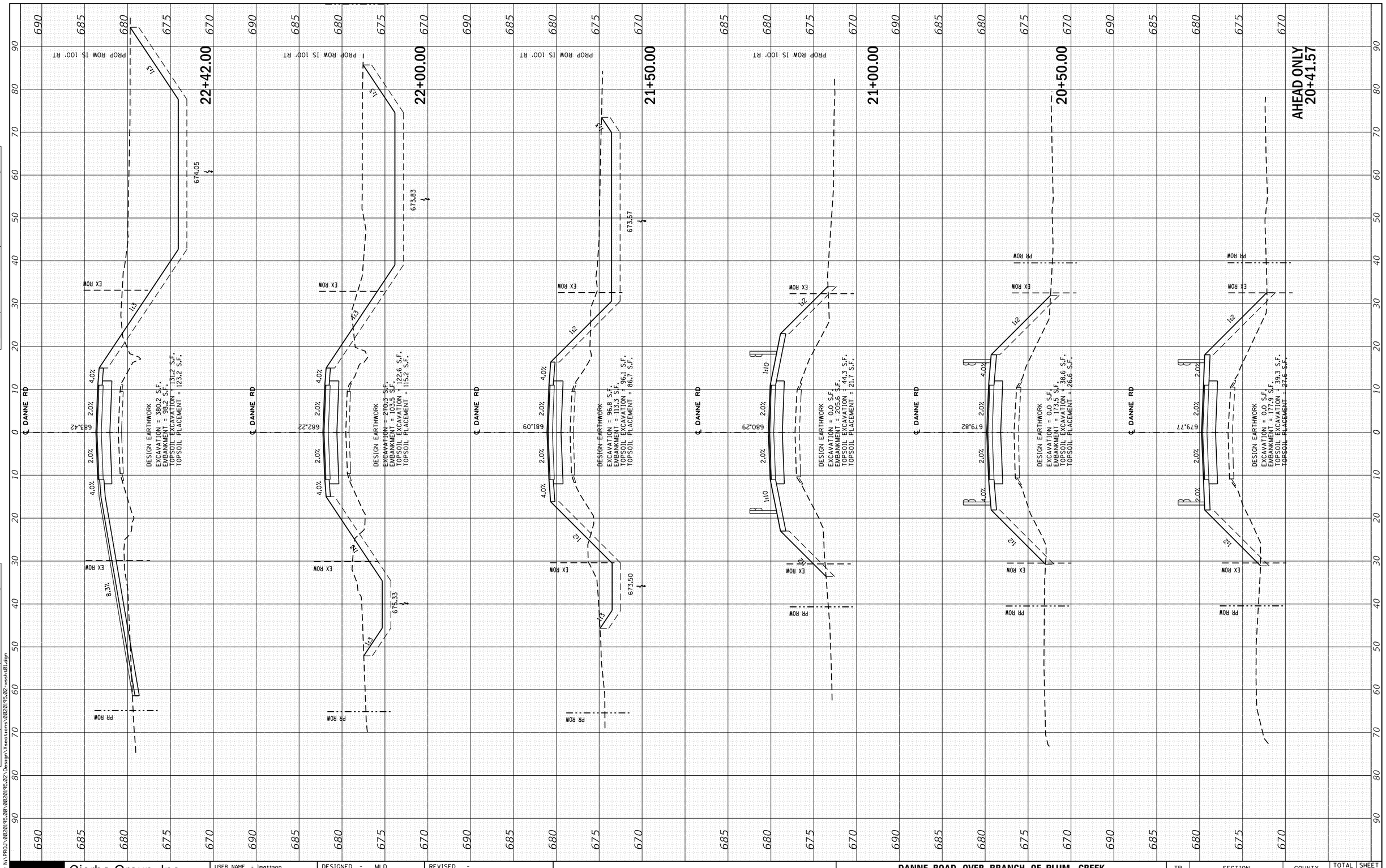
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	52
		CONTRACT NO. 61F15		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

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

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

FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Xsections\0020195.02-xsh01.dgn



Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

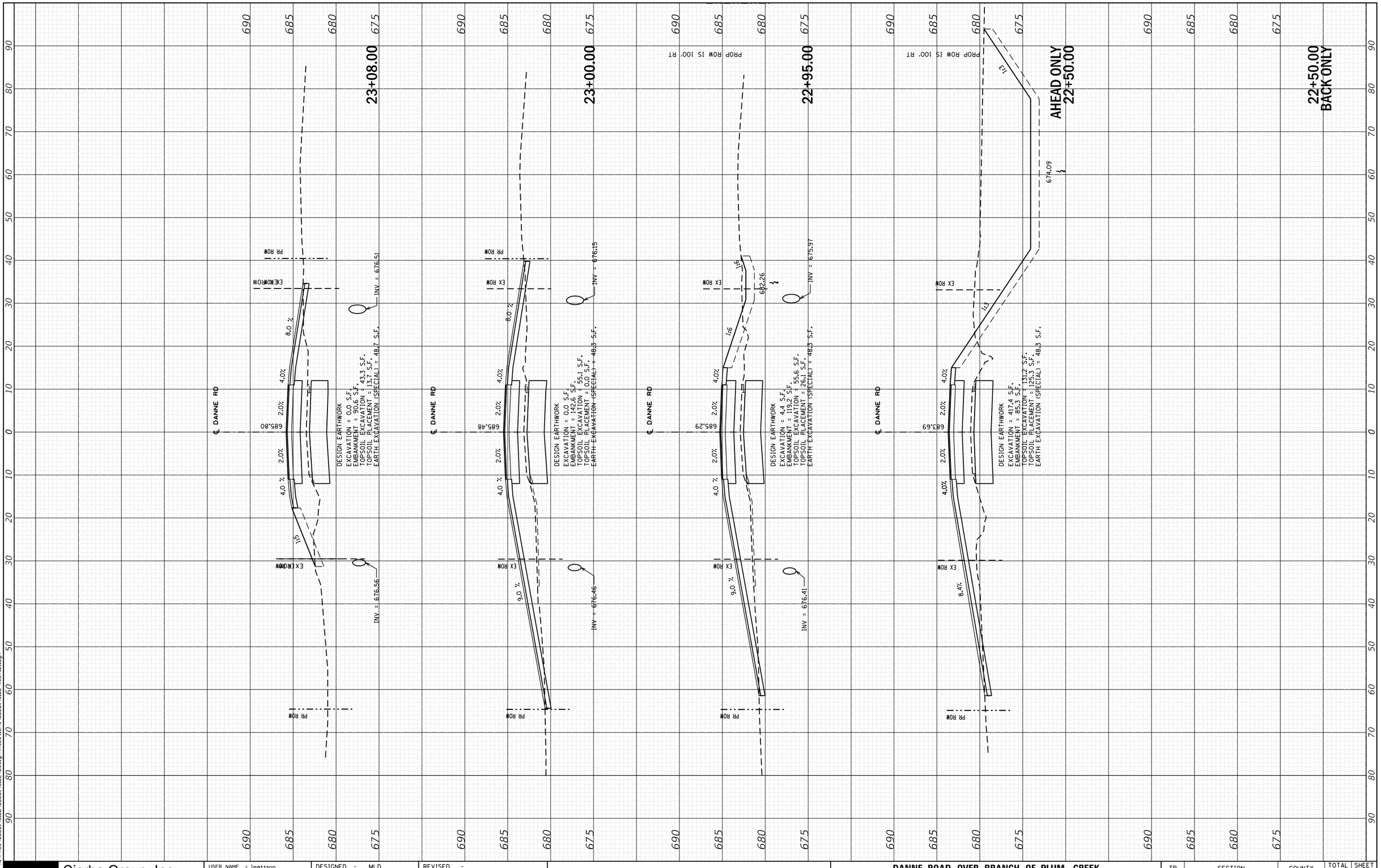
DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 20+41.59 | TO STA. 22+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	53
		CONTRACT NO. 61F15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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

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



FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Xsections\0020195.02-xsh01.dgn

USER NAME = lmattson	DESIGNED - MLD	REVISED -	
	DRAWN - DW	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -	
PLOT DATE = 8/9/2019	DATE -	REVISED -	

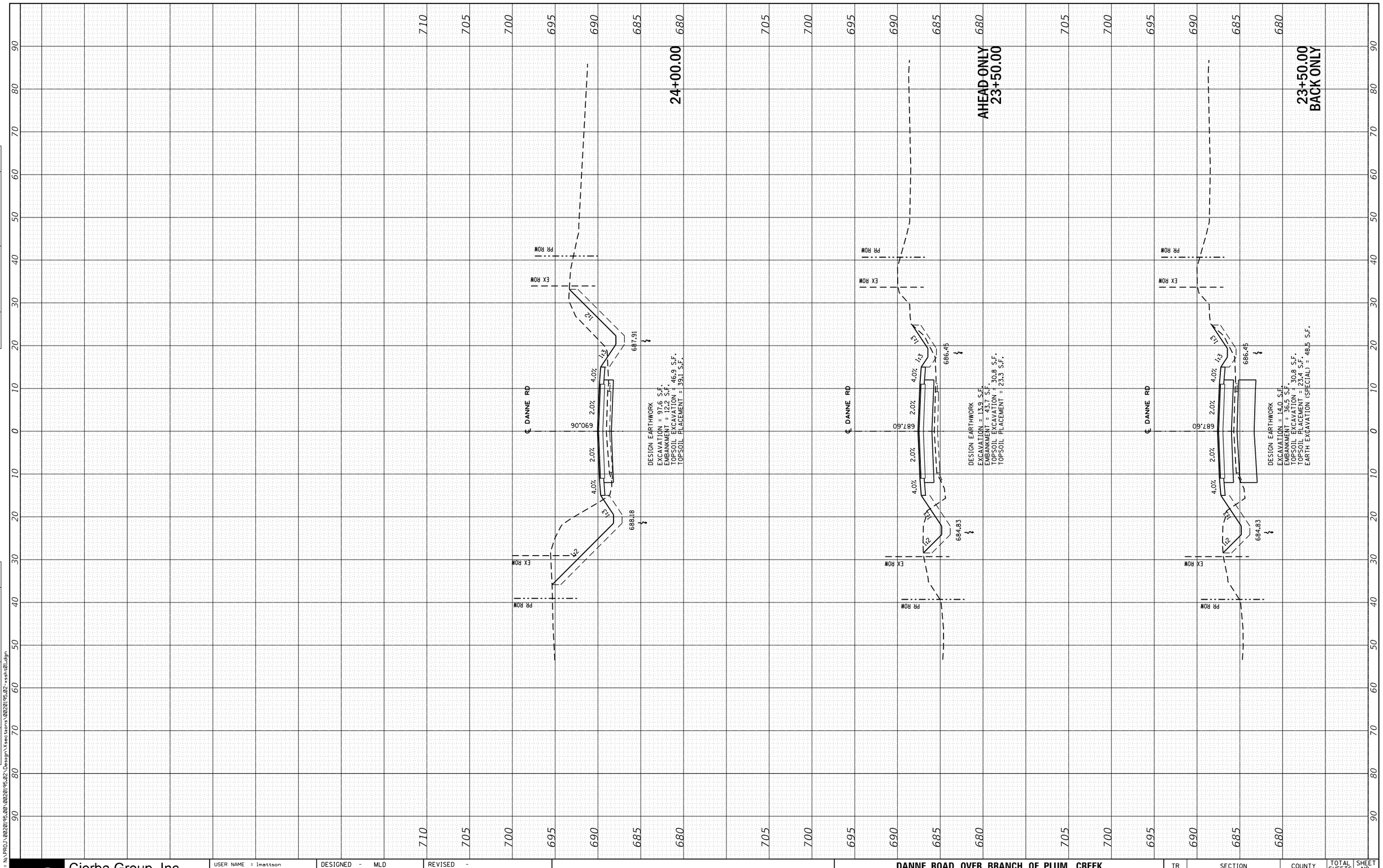
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 22+50.00 | TO STA. 23+08.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	54
		CONTRACT NO. 61F15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Xsections\0020195.02-xsh01.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

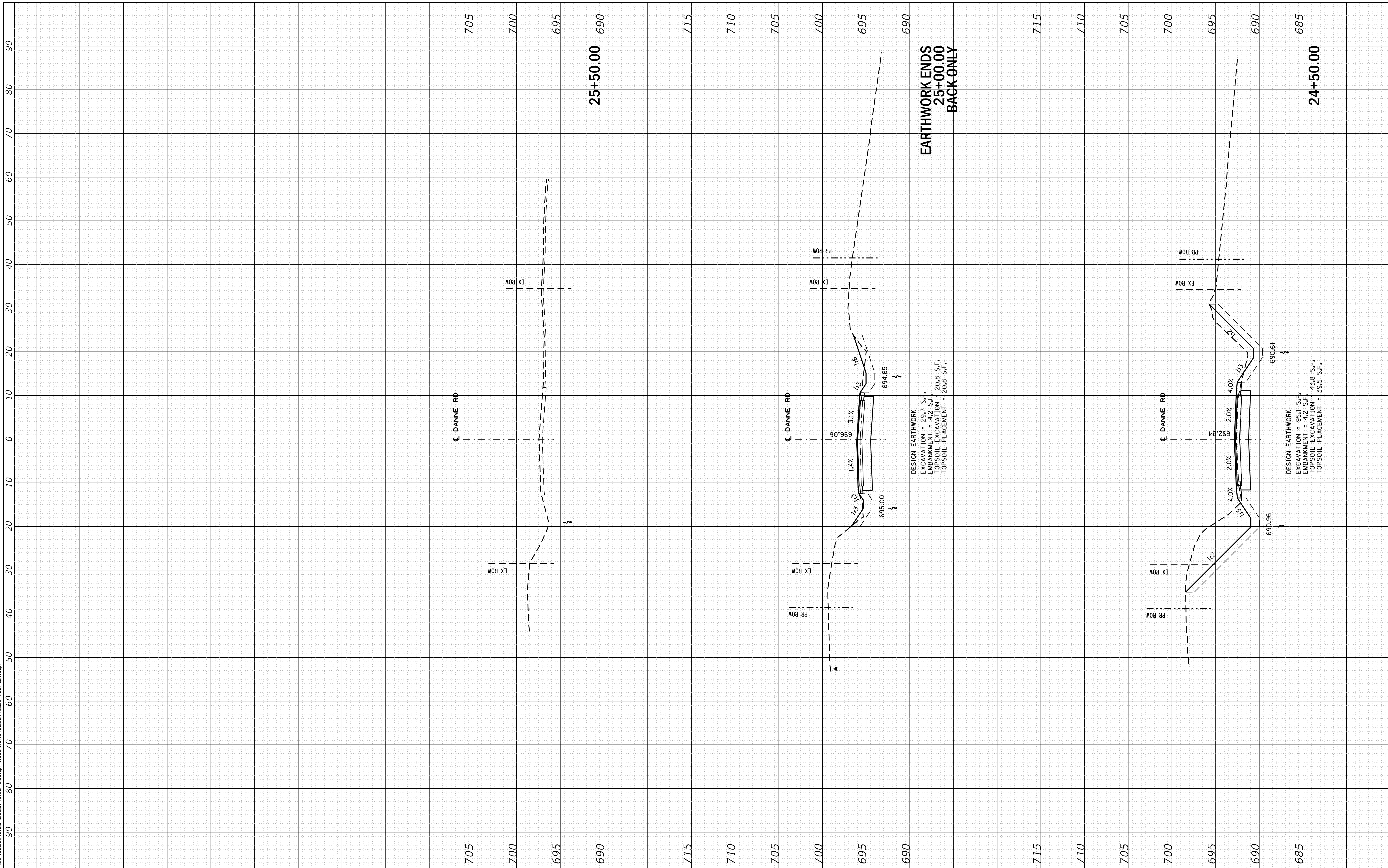
USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 23+49.98 | TO STA. 24+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	55
		CONTRACT NO. 61F15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME = N:\PROJ\0020195.00\0020195.02\Design\Xsections\0020195.02-xssht01.dgn

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = lmattson	DESIGNED - MLD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 8/9/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DANNE ROAD OVER BRANCH OF PLUM CREEK
CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 24+50.00 TO STA. 25+50.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
221	13-02113-01-BR	WILL	56	56

CONTRACT NO. 61F15

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT