

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	1
FEDERAL AID PROJECT ILLINOIS		CONTRACT NO. 97691		

INDEX OF SHEETS

06-14-2019 LETTING ITEM 245

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

STP-S FUNDS

CITY OF TROY

WEST CLAY STREET RECONSTRUCTION (MUN 1070)

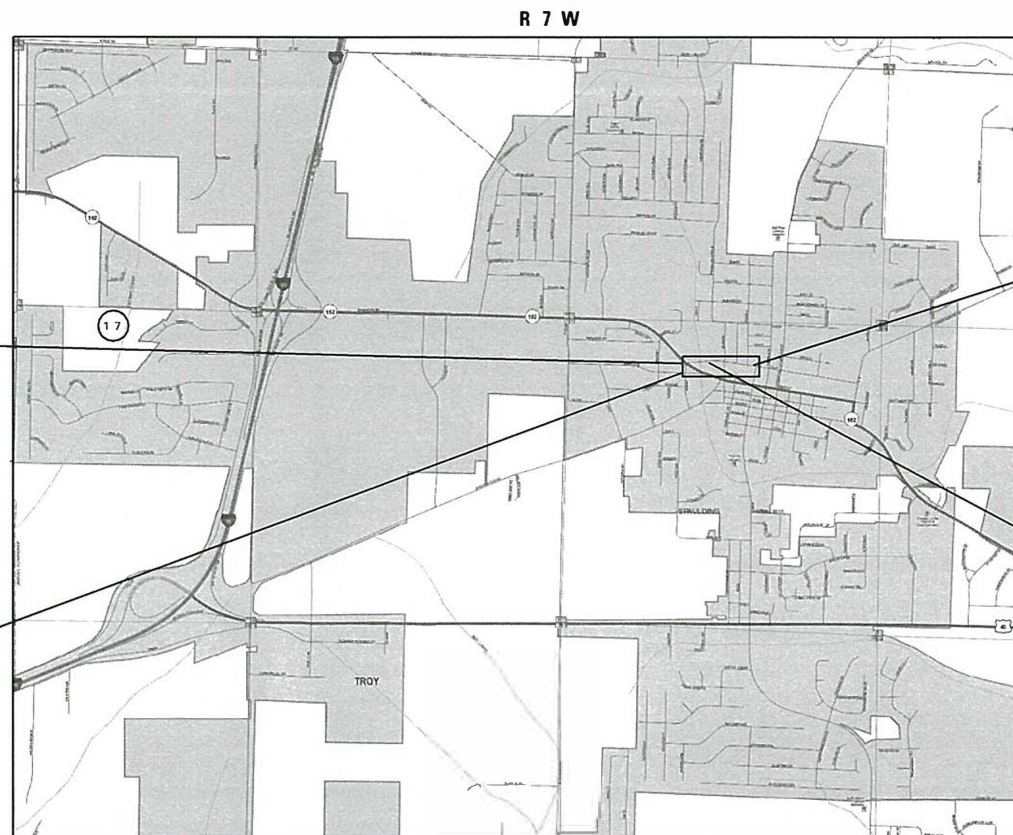
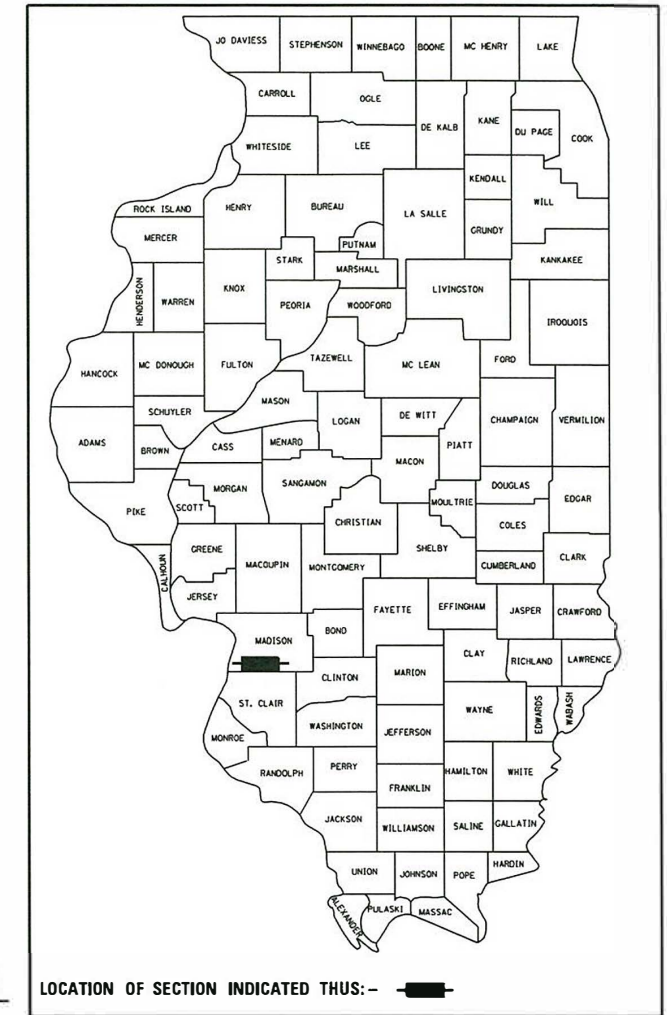
MADISON COUNTY

SECTION: 15-00031-00-PV

PROJECT: FTGK(359)

JOB NO.: C-98-030-19

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES, UTILITIES, HIGHWAY STANDARDS & COMMITMENTS
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21-22	CURB RAMP DETAILS
23-25	CONSTRUCTION DETAILS
26-29	CROSS SECTIONS

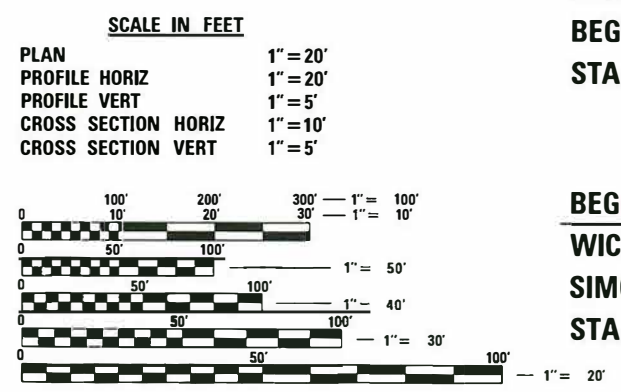


BEGIN IMPROVEMENTS
WEST CLAY STREET
STA 11 + 02.8
BEGIN RECONSTRUCTION
STA 11 + 89.6

END IMPROVEMENTS
WEST CLAY STREET
STA 22 + 56.6
END RECONSTRUCTION
STA 16 + 95.1

BEGIN IMPROVEMENTS
WICKLIFFE ST / PAUL
SIMON PARK
STA 30 + 11.6

END IMPROVEMENTS
WICKLIFFE ST / PAUL
SIMON PARK
STA 33 + 94.1



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

DESIGN DESIGNATION
 ROADWAY CLASSIFICATION = MINOR COLLECTOR
 DESIGN SPEED = 30 MPH
 CURRENT ADT = 3,050
 DESIGN YEAR ADT (2039) = 3,800

LOCATION MAP
 SCALE: 1" = 1,000'

WEST CLAY STREET LENGTH = 1,153.8' = (0.219 MILES)
 WICKLIFFE ST / PAUL SIMON PARK LENGTH = 382.5' = (0.072 MILES)
 GROSS LENGTH = 1,536.3' = (0.291 MILES)
 NET LENGTH = 1,536.3' = (0.291 MILES)

BILL EDWARD TINDALL
 062-059541
 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
 Date: 1/25/19
 Bin Tin dell
 BILL TINDALL, P.E.
 IL P.E. NO. 062-059541
 EXPIRES: 11/30/2019

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]* 1/22/19 DATE
 ALLEN ADOMITE MAYOR OF TROY

PASSED: *[Signature]* 3/19/19 DATE
 DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: *[Signature]* 3/19/19 DATE
 REGION FIVE ENGINEER

OATES ASSOCIATES
 COLLINSVILLE: 100 Lanter Court, Suite 1, Collinsville, IL 62234, 618.345.2200
 BELLEVILLE: 20 East Main Street, Belleville, IL 62200, 618.416.4688
 ST. LOUIS: 720 Olive, Suite 700, St. Louis, MO 63101, 314.588.8381
 ST. CHARLES: 330 North Main, Suite 201, St. Charles, MO 63301, 636.493.6277
 ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

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GENERAL NOTES

UTILITIES

- ABOVE-GROUND UTILITY FACILITIES OR APPURTENANCES SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS TO PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 1.5 FEET, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT.
- THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. REFER TO THE "STATUS OF UTILITIES TO BE ADJUSTED" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

AMEREN IP (GAS & ELECTRIC) 2600 NORTH CENTER MARYVILLE, IL 62062 (618) 346-1275
 CHARTER COMMUNICATIONS (FIBER) 815 CHARTER COMMONS TOWN & COUNTRY, MO 63017 (314) 393-5028

AT&T (TELEPHONE) 203 GEOTHE STREET COLLINSVILLE, IL 62234 (618) 346-6499
 CITY OF TROY (WATER & SEWER) 116 EAST MARKET STREET TROY, IL 62294 (618) 667-9924

GENERAL

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE LOCAL POSTMASTER FOR APPROVAL OF ALL TEMPORARY MAILBOX LOCATIONS. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THIS PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE BLOCKOUTS IN THE PROPOSED SIDEWALK FOR PLACEMENT OF SIGN POSTS AND MAILBOX SUPPORTS, AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR PORTLAND CEMENT CONCRETE SIDEWALK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION. AGGREGATE FOR TEMPORARY ACCESS WILL BE MEASURED FOR PAYMENT AS SPECIFIED IN THE CONTRACT. THE COST OF ALL OTHER MATERIALS REQUIRED AND ALL OTHER LABOR NECESSARY TO COMPLY WITH THIS PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER, SEEDING AND MULCH WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING AND MULCH OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT. SEE THE SEEDING SCHEDULE FOR ESTIMATED PLAN QUANTITIES.

EARTHWORK

- EARTH EXCAVATION INCLUDES THE REMOVAL OF THE EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE AND AGGREGATE BASE. THE CONTRACTOR MAY INCORPORATE THESE MATERIALS INTO THE PROPOSED EMBANKMENT. SURPLUS AND/OR UNSUITABLE MATERIAL SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."
- PRIOR TO STARTING EARTHWORK OPERATIONS IN AREAS THAT DO NOT REQUIRE EXCAVATION, THE EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE SHALL BE SCARIFIED OR BROKEN BY MECHANICAL MEANS, REDUCING ALL PARTICLES TO A SIZE NOT LARGER THAN 4 INCHES IN THE LARGEST DIMENSION. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

PAVING

- THE CONTRACTOR SHALL NOTE THE LOCATION OF ALL MANHOLE AND VALVE COVER FRAMES AND LIDS LOCATED WITHIN RESURFACING LIMITS. APPROPRIATE CARE SHALL BE TAKEN TO PROTECT THESE ITEMS DURING MILLING OPERATIONS.
- AT VARIOUS LOCATIONS, IT MAY BE NECESSARY TO TRANSITION PROPOSED COMBINATION CONCRETE CURB AND GUTTER TO MEET EXISTING CURBS OR GUTTERS. THE MINIMUM LENGTH OF TRANSITIONAL COMBINATION CURB AND GUTTER SHALL BE 10 FEET, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

DRAINAGE

- STORM SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE. STORM SEWER WILL BE MEASURED AND PAID FOR AS SPECIFIED IN ARTICLES 550.09 AND 550.10 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."
- THE OFFSETS TO ALL INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF THE OPENING AT THE BASE OF THE FRAME AND GRATE OR LID. CONCENTRIC DRAINAGE STRUCTURES WERE ASSUMED WHEN CALCULATING THESE DIMENSIONS.
- ALL TYPE 3/3V FRAMES AND GRATES SHALL BE FURNISHED BY THE CONTRACTOR WITH OPEN CURB BOXES. SEE HIGHWAY STANDARD 604011 AND THE SPECIAL PROVISIONS FOR DETAILS.
- THE CONTRACTOR SHALL INCLUDE THE COST OF MAKING CONNECTIONS TO EXISTING DRAINAGE STRUCTURES IN THE CONTRACT UNIT PRICE FOR THE STORM SEWER ITEMS INVOLVED.

PAVEMENT MARKING

- THE PAVEMENT MARKING LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. PROPOSED CROSSWALKS AND STOP BARS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, IF NECESSARY, TO MATCH FIELD CONDITIONS.

APPROXIMATE QUANTITIES, SYMBOLS & ABBREVIATIONS

- THE FOLLOWING ITEMS AND APPROXIMATE QUANTITIES ARE INCLUDED IN THE "SUMMARY OF QUANTITIES" IN ORDER TO ESTABLISH A UNIT COST FOR WORK WHICH MAY BE REQUIRED TO CONSTRUCT THIS SECTION. THE ACTUAL QUANTITY OF EACH ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL 50 CU YD
 AGGREGATE FOR TEMPORARY ACCESS 116 TON
 LOCATING UNDERGROUND UTILITIES 100 FOOT

- THE FOLLOWING SYMBOLS, ABBREVIATIONS AND PATTERNS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:

BO BY OTHERS (USED IN CONJUNCTION WITH TBA & TBR)
 CONSTR CONSTRUCTION
 CP CONTROL POINT
 DND DO NOT DISTURB
 ESMT EASEMENT
 ELEV ELEVATION
 K LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
 N/F NOW OR FORMERLY
 O/C OIL AND CHIP
 PERM PERMANENT
 PVI POINT OF VERTICAL INTERSECTION
 PVC POLYVINYL CHLORIDE PIPE
 RRPV RAISED REFLECTIVE PAVEMENT MARKER
 TCE TEMPORARY CONSTRUCTION EASEMENT
 TUP TEMPORARY USE PERMIT
 TBA TO BE ADJUSTED
 TBRL TO BE RELOCATED
 TYP TYPICAL
 W WIDTH

COMMITMENTS

- NONE

HIGHWAY STANDARDS

000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
 424011-04 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
 424016-05 MID-BLOCK CURB RAMPS FOR SIDEWALKS
 442201-03 CLASS C AND D PATCHES
 602301-04 INLET - TYPE A
 602306-03 INLET - TYPE B
 602401-06 PRECAST MANHOLE TYPE A 4' DIAMETER
 602402-02 PRECAST MANHOLE TYPE A 5' DIAMETER
 602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
 602701-02 MANHOLE STEPS
 604006-05 FRAME AND GRATE TYPE 3
 604036-03 GRATE TYPE 8
 604091-03 FRAME AND GRATE TYPE 24
 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
 701901-08 TRAFFIC CONTROL DEVICES
 720001-01 SIGN PANEL MOUNTING DETAILS
 720006-04 SIGN PANEL ERECTION DETAILS
 728001-01 TELESCOPING STEEL SIGN SUPPORT
 731001-01 BASE FOR TELESCOPING STEEL SIGN SUPPORT
 780001-05 TYPICAL PAVEMENT MARKINGS
 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
 876001-04 PEDESTRIAN PUSH BUTTON
 BLR 22-7 TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

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CITY OF TROY

GENERAL NOTES, UTILITIES, HIGHWAY STANDARDS, & COMMITMENTS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	2
CONTRACT NO. 97691				
		ILLINOIS	FED. AID PROJECT	

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	*	20200100	EARTH EXCAVATION	CU YD	1,030
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50
	*	20800150	TRENCH BACKFILL	CU YD	340
	*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,210
	*	25000110	SEEDING, CLASS 1A	ACRE	0.25
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	24
		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	24
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	24
		25100115	MULCH, METHOD 2	ACRE	0.25
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
		28000400	PERIMETER EROSION BARRIER	FOOT	524
		28000500	INLET AND PIPE PROTECTION	EACH	13
		31100700	SUBBASE GRANULAR MATERIAL, TYPE A 8"	SQ YD	1,978
		35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	352

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	116
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,224
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	619
		40600990	TEMPORARY RAMP	SQ YD	115
		40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	315
		40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	270
		42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	373
		42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	9,107
	*	42400800	DETECTABLE WARNINGS	SQ FT	109
		44000100	PAVEMENT REMOVAL	SQ YD	167
	*	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	442
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	122
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	251
		44000600	SIDEWALK REMOVAL	SQ FT	2,414

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISION
SI - SPECIALTY ITEM

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PLOT DATE = 4/2/2019	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF TROY

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	3
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	*	44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	17
	*	44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	486
	*	50900805	PEDESTRIAN RAILING	FOOT	40
		54216180	REINFORCED CONCRETE PIPE TEE, 12" PIPE WITH 12" RISER	EACH	1
	*	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	251
	*	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	99
		55100500	STORM SEWER REMOVAL 12"	FOOT	201
		55100900	STORM SEWER REMOVAL 18"	FOOT	296
	*	56100050	DUCTILE IRON WATER MAIN TEE, 12" X 6"	EACH	1
	* *	56100600	WATER MAIN 6"	FOOT	11
	* *	56100900	WATER MAIN 12"	FOOT	320
	* *	56109100	TAPPING VALVES AND SLEEVES 12"	EACH	2
	* *	60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1
		60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		60222240	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3
	*	60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1
		60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	2
		60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1
		60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	2
		60255500	MANHOLES TO BE ADJUSTED	EACH	3
		60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2
		60500040	REMOVING MANHOLES	EACH	1
		60500060	REMOVING INLETS	EACH	2
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	206
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,378
		63200310	GUARDRAIL REMOVAL	FOOT	79
	* *	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	190
	* *	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISION
SI - SPECIALTY ITEM

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	DATE -	REVISED -

CITY OF TROY

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	4
CONTRACT NO. 97691			ILLINOIS FED. AID PROJECT	

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
*	*	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	3
*	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1
*	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2
		67100100	MOBILIZATION	L SUM	1
*	*	72000100	SIGN PANEL - TYPE 1	SO FT	104.7
*		72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	6
*	*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	267.5
*	*	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1
*		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	27
*		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,682
*		78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	60
*		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	63
*		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	313
*		78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,618

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
*		78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	157
*		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	35
*		84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	1
*		X0323389	STORM SEWER CONNECTION	EACH	4
*		X0323455	ADJUST MONITORING WELLS	EACH	1
*		X0323569	STEEL POST REMOVAL	EACH	1
*	*	X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2
*		X0327235	LOCATING UNDERGROUND UTILITIES	FOOT	100
		X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	1,034
*		X0350810	BOLLARD REMOVAL	EACH	4
*		X2800520	ABOVE GRADE INLET FILTERS	EACH	12
*	*	X5610712	WATER MAIN REMOVAL, 12"	FOOT	285
*	*	X5610752	WATER MAIN LINE STOP 12"	EACH	2
*	*	X5630706	CONNECTION TO EXISTING WATER MAIN 6"	EACH	1

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISION
SI - SPECIALTY ITEM

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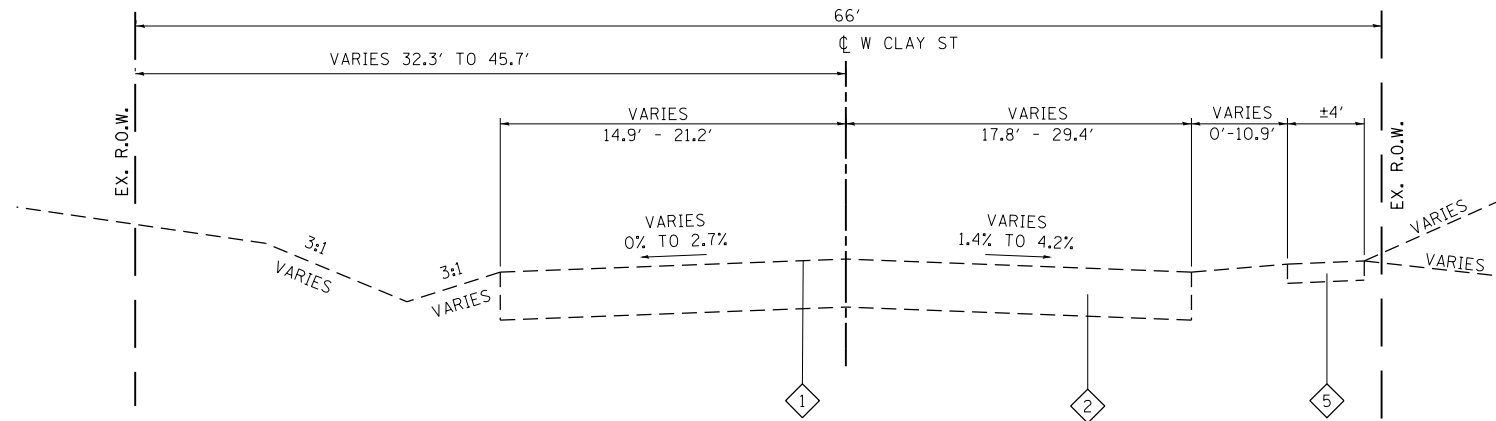
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	DATE -	REVISED -

CITY OF TROY

SUMMARY OF QUANTITIES

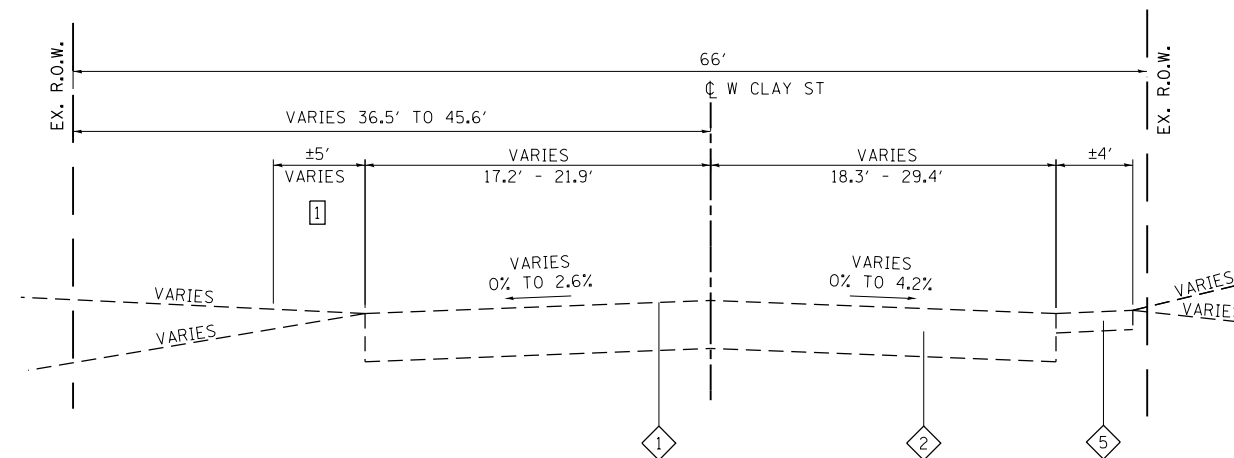
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	5
CONTRACT NO. 97691			ILLINOIS FED. AID PROJECT	



EXISTING WEST CLAY STREET

INTERSECTION TRANSITION STA 16+95.1 TO STA 17+41.4
 STA 13+99.0 TO STA 16+95.1



EXISTING WEST CLAY STREET

STA 11+89.6 TO STA 13+99.0
 INTERSECTION TRANSITION STA 11+02.8 (IL 162) TO STA 11+89.6

TYPICAL SECTION NOTES

- 1 EARTH SHOULDER ONLY FROM STA. 12+05 TO STA. 13+30 WHEN GUARDRAIL IS PRESENT
- 2 EAST OF STA 21+97 CONCRETE GUTTER TRANSITIONS TO COMBINATION CURB & GUTTER
- 3 PAVEMENT WIDENING 6' WIDE FOR PARKING STALLS FROM STA 12+18.5 TO STA 14+94.4
- 4 PR ROW AND TCE ONLY EAST OF PAUL SIMON PARK
- 5 WESTBOUND LANE (LT SIDE) STA 11+89.6 TO STA 12+39.6 CROSS SLOPE TRANSITIONS FROM +0.70% TO -2.00%

TYPICAL SECTION LEGEND

- 1 EXISTING OIL & CHIP PAVEMENT
- 2 EXISTING AGGREGATE BASE COURSE
- 3 EXISTING ASPHALT PAVEMENT
- 4 EXISTING CONCRETE GUTTER
- 5 EXISTING PCC SIDEWALK
- 6 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 8"
- 7 PROPOSED HMA SURFACE COURSE, MIX "D", N70, 2"
- 8 PROPOSED HMA BINDER COURSE, IL-19.0, N70, 3"
- 9 PROPOSED BITUMINOUS MATERIALS PRIME COAT
- 10 PROPOSED BITUMINOUS MATERIALS TACK COAT
- 11 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- 12 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- 13 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- 14 PROPOSED FURNISH AND PLACE 4" TOPSOIL

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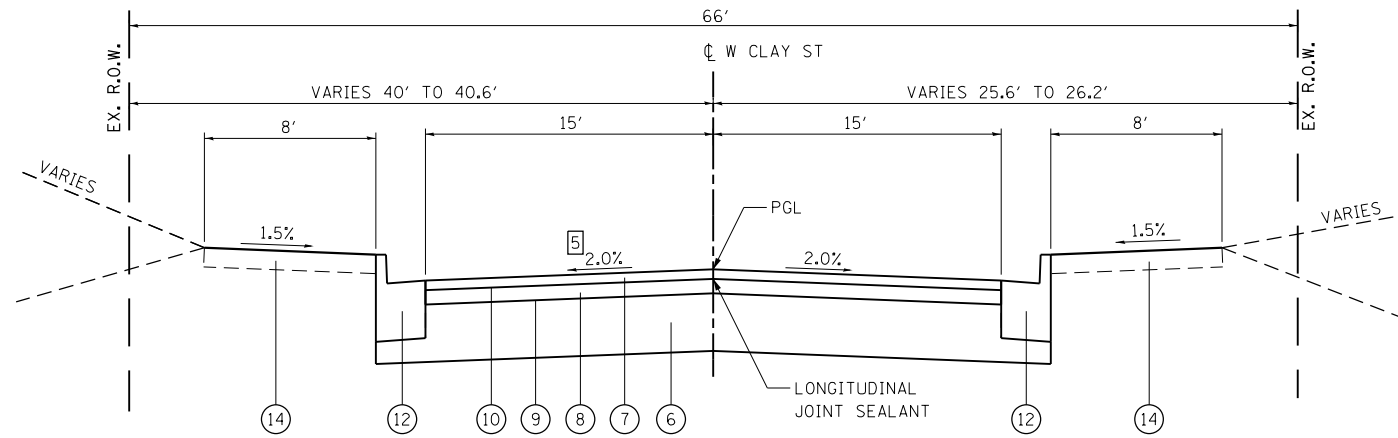
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CITY OF TROY

TYPICAL SECTIONS

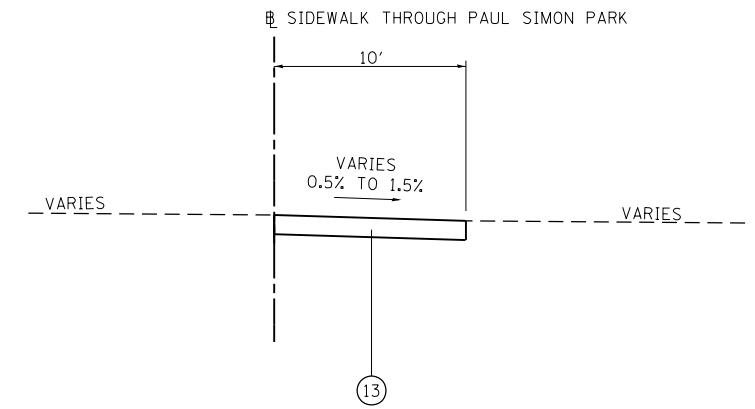
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M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	6
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				



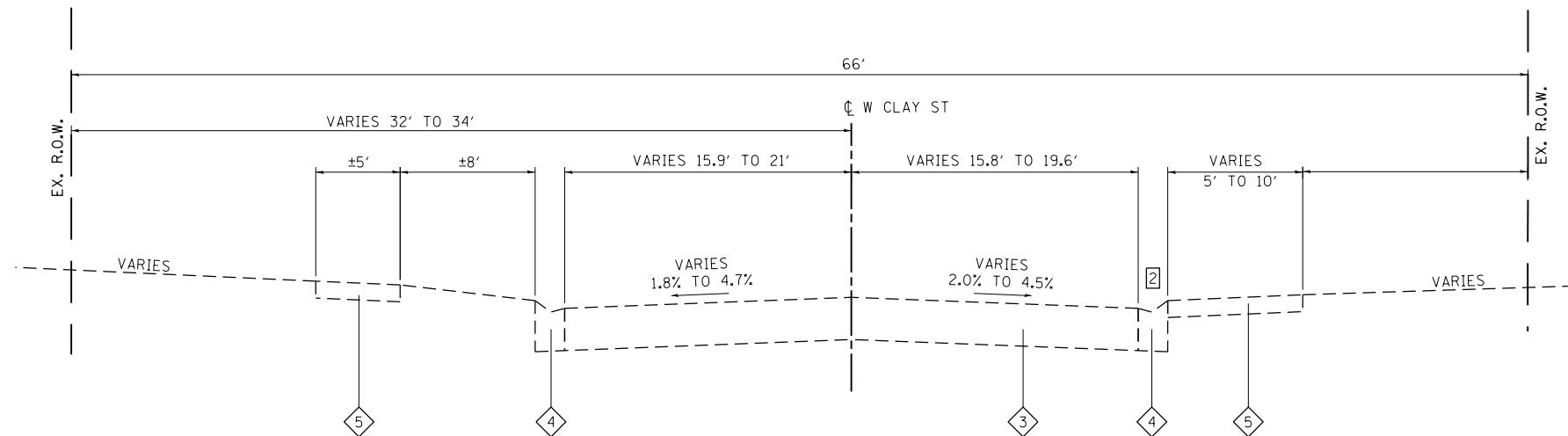
PROPOSED WEST CLAY STREET

STA 11+89.6 TO STA 12+06.5
INTERSECTION TRANSITION STA 11+02.8 (IL 162) TO STA 11+89.6



PROPOSED SIDEWALK THROUGH PAUL SIMON PARK

STA 32+65.3 TO STA 33+94.1



EXISTING WEST CLAY STREET

STA 17+84.6 TO STA 22+56.6
INTERSECTION TRANSITION STA 17+41.4 TO STA 17+84.6

TYPICAL SECTION NOTES

- 1 EARTH SHOULDER ONLY FROM STA. 12+05 TO STA. 13+30 WHEN GUARDRAIL IS PRESENT
- 2 EAST OF STA 21+97 CONCRETE GUTTER TRANSITIONS TO COMBINATION CURB & GUTTER
- 3 PAVEMENT WIDENING 6' WIDE FOR PARKING STALLS FROM STA 12+18.5 TO STA 14+94.4
- 4 PR ROW AND TCE ONLY EAST OF PAUL SIMON PARK
- 5 WESTBOUND LANE (LT SIDE) STA 11+89.6 TO STA 12+39.6 CROSS SLOPE TRANSITIONS FROM +0.70% TO -2.00%

TYPICAL SECTION LEGEND

- 1 EXISTING OIL & CHIP PAVEMENT
- 2 EXISTING AGGREGATE BASE COURSE
- 3 EXISTING ASPHALT PAVEMENT
- 4 EXISTING CONCRETE GUTTER
- 5 EXISTING PCC SIDEWALK
- 6 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 8"
- 7 PROPOSED HMA SURFACE COURSE, MIX "D", N70, 2"
- 8 PROPOSED HMA BINDER COURSE, IL-19.0, N70, 3"
- 9 PROPOSED BITUMINOUS MATERIALS PRIME COAT
- 10 PROPOSED BITUMINOUS MATERIALS TACK COAT
- 11 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- 12 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- 13 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- 14 PROPOSED FURNISH AND PLACE 4" TOPSOIL

MIXTURES TABLE

MIXTURE USE	SURFACE	BINDER
THICKNESS	2"	3"
AC/PG	PG 70-22	PG 70-22
RAP % (MAX)	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION	IL-12.5	IL-19.0
FRICTION AGG	MIXTURE "D"	MIXTURE "D"
DENSITY TEST METHOD	CORES/NUCLEAR	CORES/NUCLEAR

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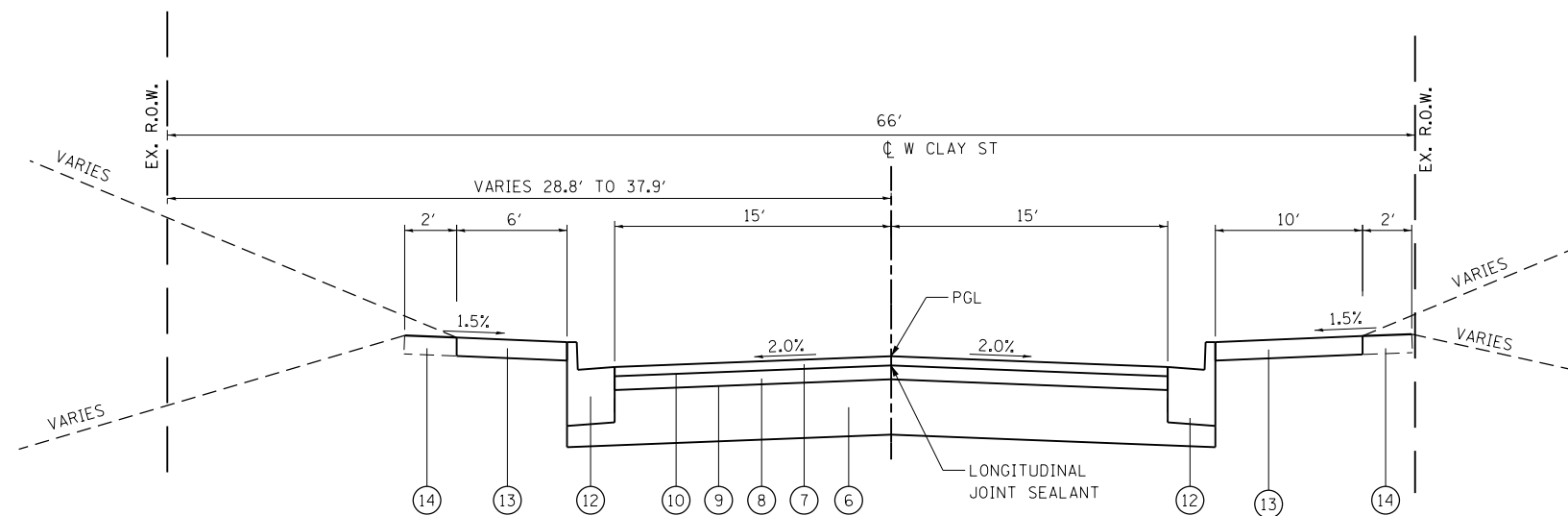
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TYPICAL SECTIONS

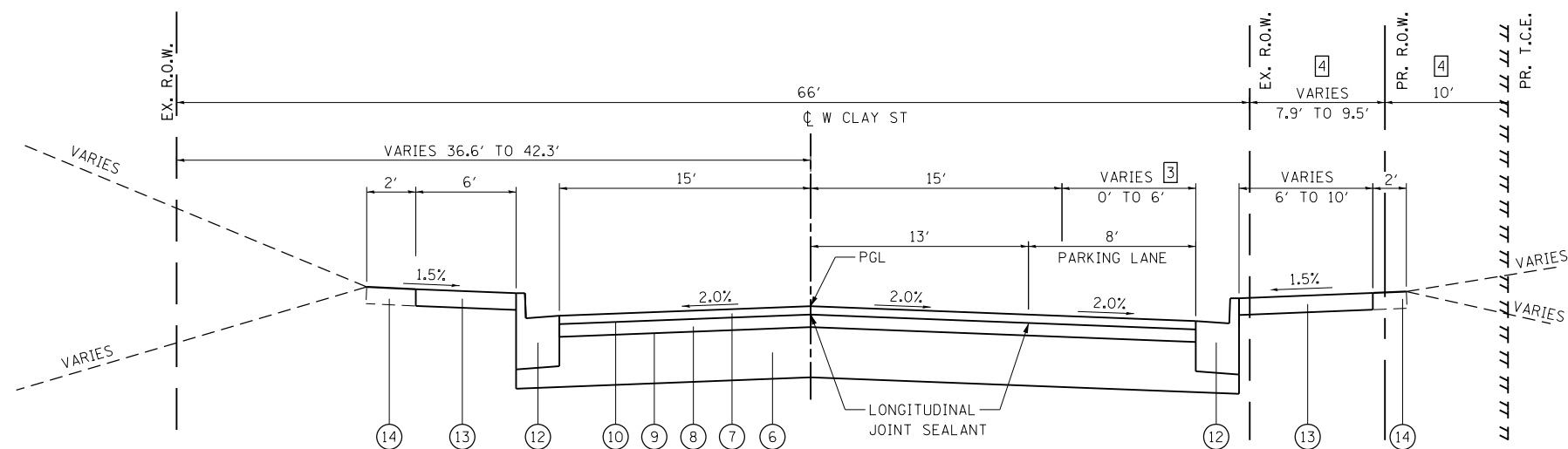
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M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	7
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				



PROPOSED WEST CLAY STREET

INTERSECTION TRANSITION STA 16+95.1 TO STA 17+41.4
 STA 15+06.9 TO STA 16+95.1

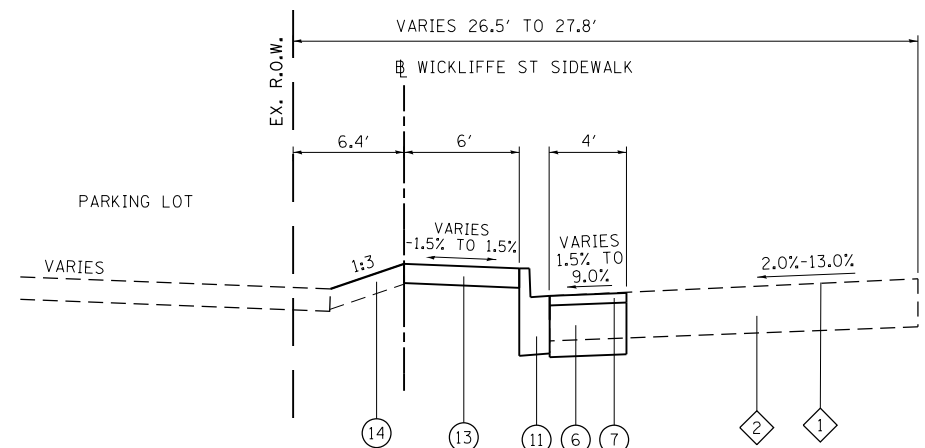


PROPOSED WEST CLAY STREET

STA 12+06.5 TO STA 15+06.9

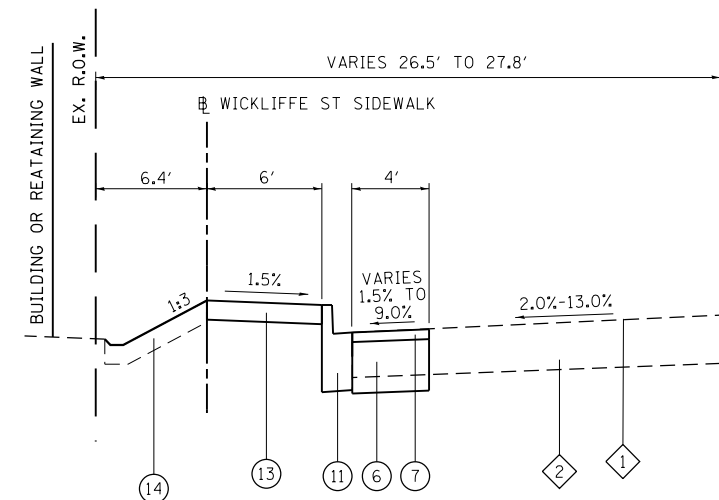
TYPICAL SECTION NOTES

- 1 EARTH SHOULDER ONLY FROM STA. 12+05 TO STA. 13+30 WHEN GUARDRAIL IS PRESENT
- 2 EAST OF STA 21+97 CONCRETE GUTTER TRANSITIONS TO COMBINATION CURB & GUTTER
- 3 PAVEMENT WIDENING 6' WIDE FOR PARKING STALLS FROM STA 12+18.5 TO STA 14+94.4
- 4 PR ROW AND TCE ONLY EAST OF PAUL SIMON PARK
- 5 WESTBOUND LANE (LT SIDE) STA 11+89.6 TO STA 12+39.6 CROSS SLOPE TRANSITIONS FROM +0.70% TO -2.00%



PROPOSED WICKLIFFE SIDEWALK

INTERSECTION/RAMP TRANSITION STA 31+89.7 TO STA 32+30.3
 STA 31+71.1 TO STA 31+89.7
 ENTRANCE TRANSITION STA 31+25.1 TO STA 31+71.1
 STA 30+80.9 TO STA 31+25.1



PROPOSED WICKLIFFE SIDEWALK

STA 30+27.3 TO STA 30+80.9
 INTERSECTION/RAMP TRANSITION STA 30+11.6 TO STA 30+27.3

TYPICAL SECTION LEGEND

- 1 EXISTING OIL & CHIP PAVEMENT
- 2 EXISTING AGGREGATE BASE COURSE
- 3 EXISTING ASPHALT PAVEMENT
- 4 EXISTING CONCRETE GUTTER
- 5 EXISTING PCC SIDEWALK
- 6 PROPOSED SUBBASE GRANULAR MATERIAL TYPE A, 8"
- 7 PROPOSED HMA SURFACE COURSE, MIX "D", N70, 2"
- 8 PROPOSED HMA BINDER COURSE, IL-19.0, N70, 3"
- 9 PROPOSED BITUMINOUS MATERIALS PRIME COAT
- 10 PROPOSED BITUMINOUS MATERIALS TACK COAT
- 11 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- 12 PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- 13 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- 14 PROPOSED FURNISH AND PLACE 4" TOPSOIL

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CITY OF TROY

TYPICAL SECTIONS

SCALE: NTS SHEET 3 OF 3 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	8
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

EARTHWORK

STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (NOTE 3) (CU YD)
WEST CLAY STREET					
11+00	14+00	405	305	30	275
14+00	16+00	400	300	25	275
16+00	17+02	135	100	10	90
WICKLIFFE STREET/PAUL SIMON PARK					
30+11	32+30	80	60	15	45
32+62	33+94	10	10	5	5
TOTAL		1,030	775	85	690

EARTHWORK NOTES:

- ESTIMATED SHRINKAGE FACTOR = 25%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.

SIDEWALK

STATION	STATION	OFFSET	PC CONC SIDEWALK 4 (NOTE 1) (SO FT)	DETECTABLE WARNINGS (NOTE 1) (SO FT)	SIDEWALK REM (SO FT)
WEST CLAY STREET					
11+02	12+00	LT			183
12+00	14+00	LT	1,137		
12+00	14+00	RT	1,109	10	800
14+00	16+00	LT	705		
14+00	16+00	RT	1,945		770
16+00	17+42	LT	769	17	103
16+00	17+42	RT	728	30	558
WICKLIFFE STREET/PAUL SIMON PARK					
30+12	32+31	RT	1,373	32	
32+65	33+91	RT	1,341	20	
TOTAL			9,107	109	2,414

SIDEWALK NOTES:

- SIDEWALK RAMPS ACCESSIBLE TO THE DISABLED ARE REQUIRED.

ENTRANCE

STATION (NOTE 1)	OFFSET	ENTRANCE TYPE	EXISTING SURFACE TYPE	PCC DRIVEWAY PAVT 6 (NOTE 1) (SO YD)	AGG BASE CSE A 4 (SO YD)	AGG TEMP ACCESS (TON)	DRIVEWAY PAVEMENT REM (SO YD)
WEST CLAY STREET							
11+92	LT	CE	CONC	28	28	9	12
13+81	RT	CE	CONC	65	66	22	28
14+92	LT	PE	CONC	70	48	16	
15+35	LT	CE	CONC	35	35	12	10
15+87	LT	PE	CONC	22	22	7	7
16+29	RT	CE	CONC	51	51	17	31
16+69	RT	CE	CONC	34	34	11	16
17+05	RT	CE	CONC	31	31	10	18
WICKLIFFE STREET/PAUL SIMON PARK							
31+49	RT			37	37	12	
TOTAL				373	352	116	122

ENTRANCE NOTES:

- DEPRESSED CURB AND GUTTER THROUGH ENTRANCES SHALL BE MEASURED FOR PAYMENT AS COMBINATION CONCRETE CURB AND GUTTER, TYPE SPECIFIED.

SEEDING

STATION	STATION	OFFSET	SEEDING CL 1A (ACRE)	NITROGEN FERT NUTR (NOTE 1) (POUND)	PHOSPHORUS FERT NUTR (NOTE 1) (POUND)	POTASSIUM FERT NUTR (NOTE 1) (POUND)	MULCH METHOD 2 (NOTE 3) (ACRE)	TEMP EROS CNTL SEEDING (NOTE 2) (POUND)	TOPSOIL FURNISH & PLACE 4" (SO YD)
WEST CLAY STREET									
10+88	11+27	LT	0.03	3	3	3	0.03	6	145
11+78	13+22	RT	0.03	3	3	3	0.03	6	145
12+04	14+80	LT	0.06	5	5	5	0.06	12	290
13+97	15+21	RT	0.04	4	4	4	0.04	8	194
15+03	17+04	LT	0.04	4	4	4	0.04	8	194
WICKLIFFE STREET/PAUL SIMON PARK									
32+63	33+85	LT	0.02	2	2	2	0.02	4	97
32+63	33+85	RT	0.03	3	3	3	0.03	6	145
TOTAL			0.25	24	24	24	0.25	50	1,210

SEEDING NOTES:

- THE APPLICATION RATE FOR FERTILIZER NUTRIENTS IS 90 LBS/ACRE FOR ESTIMATION PURPOSES.
- THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES 2 SEPARATE APPLICATIONS AT A RATE OF 100 LBS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER.
- THE APPLICATION RATE FOR MULCH METHOD 2 IS 2 TONS/ACRE.

EROSION CONTROL

STATION	STATION	OFFSET	PERIMETER EROS BAR (FOOT)	INLET & PIPE PROTECT (EACH)	ABOVE GRADE INLT FLTR (EACH)
WEST CLAY STREET					
11+80	13+11	RT	134		
12+20		RT		1	1
13+00		LT		1	1
13+00		RT		1	1
13+54	15+21	RT	130		
14+10		LT		1	1
14+10		RT		1	1
14+70		LT		1	1
14+93		RT		1	1
16+00		RT		1	1
16+08		LT		1	1
17+06		LT		1	1
17+50		RT		1	1
WICKLIFFE STREET/PAUL SIMON PARK					
32+10		RT		1	1
32+11		RT		1	
32+63	33+94	LT/RT	260		
TOTAL			524	13	12

CURB & GUTTER

STATION	STATION	OFFSET	COMB CURB GUTTER REM (FOOT)	COMB CC&G TB6.12 (NOTE 1) (FOOT)	COMB CC&G TB6.24 (NOTE 1) (FOOT)
WEST CLAY STREET					
11+00	12+00	LT	68		163
11+00	12+00	RT			19
12+00	14+00	LT			198
12+00	14+00	RT			203
14+00	16+00	LT			203
14+00	16+00	RT			197
16+00	17+52	LT	32		133
16+00	17+52	RT	57		152
WICKLIFFE STREET/PAUL SIMON PARK					
30+11	32+67	RT	94	206	110
TOTAL			251	206	1,378

CURB & GUTTER NOTES:

- THE TRANSITION FROM TYPE B-6.12 CC&G TO TYPE B-6.24 CC&G SHALL BE MEASURED FOR PAYMENT AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.

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CITY OF TROY

SCHEDULES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	9
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING

STATION	STATION	OFFSET	THPL PVT MK LTR & SYM (SO FT)	THPL PVT MK LINE 4 (FOOT)	THPL PVT MK LINE 8 (FOOT)	THPL PVT MK LINE 12 (FOOT)	THPL PVT MK LINE 24 (FOOT)	PAINT PVT MK LINE 4 (NOTE 3) (FOOT)	PAINT PVT MK LINE 24 (NOTE 3) (FOOT)	RAISED REFL PAVT MKR (EACH)	PAVMT MRKG REM WTR BL (SO FT)
WEST CLAY STREET											
10+75	12+00	LT/RT		356	60	63	22	320	22	19	151
12+00	14+00	LT/RT	3	566				566		3	188
14+00	16+00	LT/RT		492				492		3	164
16+00	17+21	LT/RT		240			153	240	33	1	212
17+21	22+59	LT/RT		992			61		25	7	150
WICKLIFFE STREET/PAUL SIMON PARK											
32+33	32+62	LT/RT	24				77		77		169
IL-162											
574+20		LT/RT		36						2	
TOTAL			27	2,682	60	63	313	1,618	157	35	1,034

PAVEMENT MARKING NOTES:

- SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.
- SEE HIGHWAY STANDARD 781001 FOR RAISED REFLECTIVE PAVEMENT MARKING STANDARDS.
- PAY ITEM TO BE INSTALLED IF THE FINAL SURFACE CANNOT BE PERMANENTLY MARKED PRIOR TO WINTER SHUT DOWN.

PAVEMENT

STATION	STATION	OFFSET	SUB GRAN MAT A 8 (SO YD)	BIT MATLS PR CT (POUND)	BIT MATLS TACK CT (POUND)	HMA SC "D" N70 (TON)	HMA BC IL-19.0 N70 (TON)	HMA SURF REM 2 (SO YD)
WEST CLAY STREET								
11+00	12+00	LT/RT	35	78	205	53	6	442
12+00	14+00	LT/RT	793	1,784	178	89	133	
14+00	16+00	LT/RT	733	1,649	165	82	123	
16+00	16+95	LT/RT	317	713	71	35	53	
WICKLIFFE STREET								
30+12	32+06	RT	100			11		
TOTAL			1,978	4,224	619	270	315	442

PAVEMENT NOTES:

- APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:
 BIT MATLS PRIME COAT (AGG BASE): 0.25 LB/SO FT
 BIT MATLS TACK COAT (MILLED): 0.05 LB/SO FT
 BIT MATLS TACK COAT (HMA LIFTS): 0.025 LB/SO FT
 HOT-MIX ASPHALT: 0.056 TON/SO YD/IN

SIGN

STATION	OFFSET	TYPE	DESCRIPTION	SIZE (IN X IN)	SIGN PANEL T1 (SO FT)	REMOVE SIN PAN ASSY TA (EACH)	TELES STL SIN SUPPORT (FOOT)	BASE TEL STL SIN SUPP (EACH)	SOLAR- POWER FB AS CMP (EACH)
WEST CLAY STREET									
10+99	LT		STREET SIGN			1			
11+05	LT		STOP SIGN			1			
11+07	LT	D3-1	W CLAY ST	24 X 8	1.3		14.5		
		D3-1	IL 162	24 X 8	1.3				
11+11	LT	R1-1	STOP	30 X 30	6.3		16.5		
		W4-4p	CROSS TRAFFIC DOES NOT STOP	24 X 12	2.0				
11+97	RT	W11-1	BICYCLE WARNING	30 X 30	6.3		17.5		
		W16-1p	SHARE THE ROAD	18 X 24	3.0				
12+40	RT	D9-6	ACCESSIBLE PARKING SIGN	24 X 24	4.0		13.0	1	
13+83	LT	R8-3a	NO PARKING	24 X 30	5.0		15.5		
16+07	LT	R8-3a	NO PARKING	25 X 30	5.0		15.5		
16+59	RT		ENTRY	18 X 18	2.0		14.5		
16+62	LT	W11-1	BICYCLE WARNING	30 X 30	6.3		17.5		
		W16-1p	SHARE THE ROAD	18 X 24	3.0				
16+96	RT		EXIT ONLY	18 X 18	2.0		14.5		
17+03	LT	R1-1	STOP	30 X 30	6.3		15.5		
17+09	LT		STOP SIGN/SNOW ROUTE			1			
17+20	RT	R1-1	STOP	30 X 30	6.3		15.5		
17+28	RT		STOP SIGN/SNOW ROUTE			1			
19+40	LT	R1-1	STOP	30 X 30	6.3		15.5		
WICKLIFFE STREET/PAUL SIMON PARK									
30+21	LT	R1-1	STOP	30 X 30	6.3		16.5		
		W4-4p	CROSS TRAFFIC DOES NOT STOP	24 X 12	2.0				
30+22	LT		STOP SIGN			1			
31+57	LT	R1-5a	YIELD TO PEDESTRIANS	36 X 48	12.0		17.0		
32+16	RT	R9-2	CROSS ONLY AT CROSSWALKS	12 X 18	1.5		17.0		
		D3-1	WICKLIFFE ST	30 X 8	1.7				
		D3-1	IL 162	24 X 8	1.3				
32+24	LT	W11-2*	PEDESTRIAN CROSSING	30 X 30	(NOTE 2)		1		
		W16-7p*	DIAGONAL ARROW	24 X 12	(NOTE 2)				
		R10-25	PUSH BUTTON	9 X 12	(NOTE 2)				
32+25	LT		STREET SIGN/DIRECTIONAL			1			
32+75	LT	R9-2	CROSS ONLY AT CROSSWALKS	12 X 18	1.5		14.5		
32+76	RT	W11-2*	PEDESTRIAN CROSSING	30 X 30	(NOTE 2)		1		
		W16-7p*	DIAGONAL ARROW	24 X 12	(NOTE 2)				
		R10-25	PUSH BUTTON	9 X 12	(NOTE 2)				
32+86	RT	R1-5a	YIELD TO PEDESTRIANS	36 X 48	12.0		17.0		
TOTAL:					104.7	6	267.5	1	2

SIGN NOTES:

- SEE SPECIAL PROVISION "EXPANSION JOINTS" FOR PLACEMENT IN PCC SIDEWALK.
- COST OF SIGN PANEL INCLUDED WITH SOLAR POWER RRFB SIGN ASSEMBLY.
- * INDICATES TWO EACH SIGN PANELS REQUIRED.

PEDESTRIAN RAILING

STATION	STATION	OFFSET	PEDESTRIAN RAIL (FOOT)	GUARDRAIL REM (FOOT)
WEST CLAY STREET				
12+48	12+88	LT	40	
12+31	13+10	LT		79
TOTAL			40	79

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




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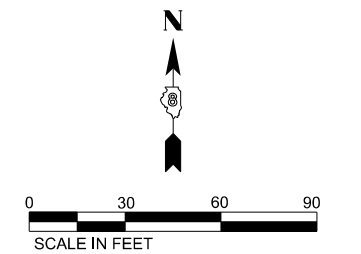
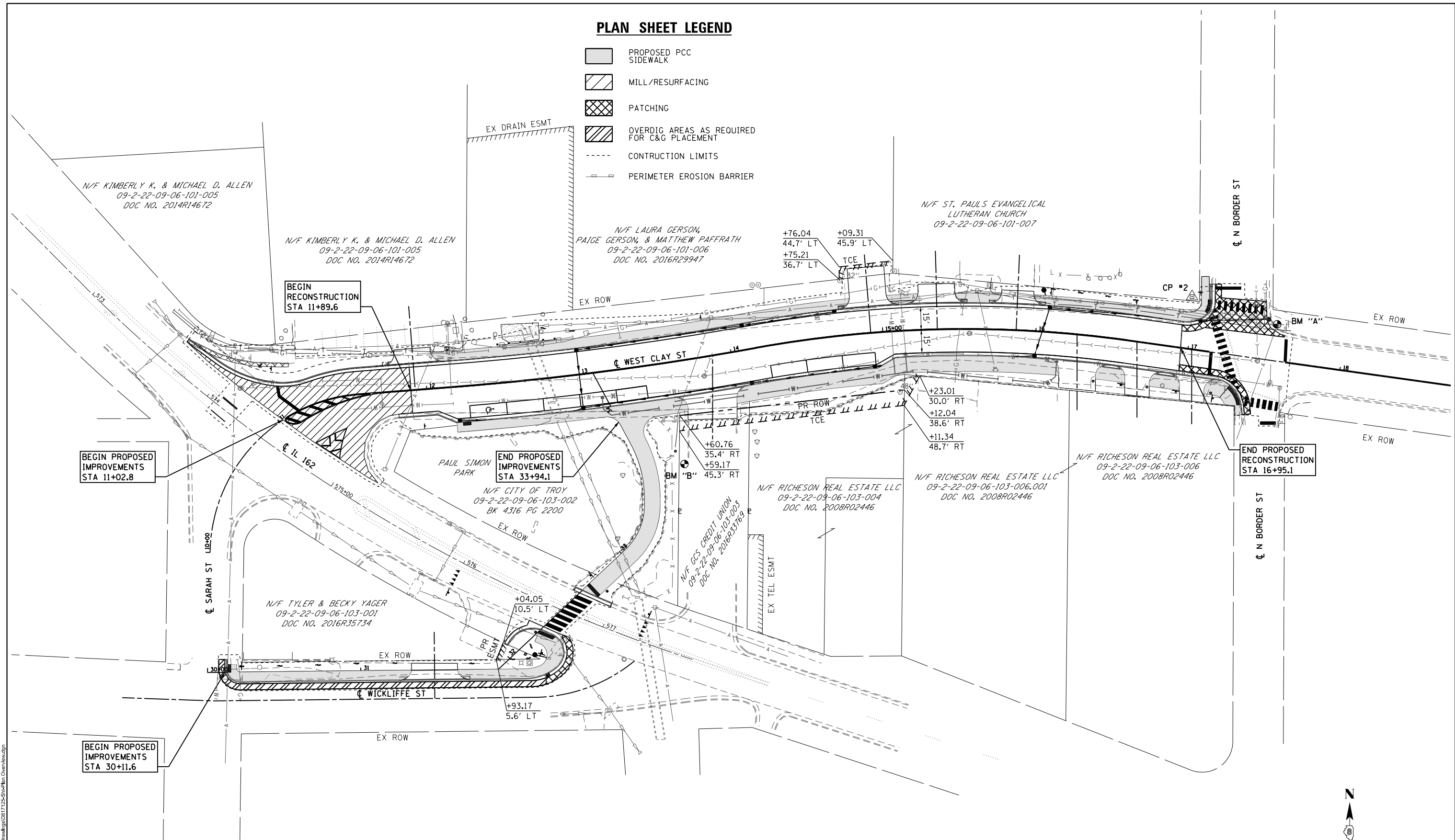
SCHEDULES

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

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	10
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

PLAN SHEET LEGEND

-  PROPOSED PCC SIDEWALK
-  MILL/RESURFACING
-  PATCHING
-  OVERDIG AREAS AS REQUIRED FOR C&G PLACEMENT
-  CONSTRUCTION LIMITS
-  PERIMETER EROSION BARRIER



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CITY OF TROY

OVERVIEW		
PLAN AND PROFILE SHEETS		
SCALE: 1"=30'	SHEET 1 OF 5 SHEETS	STA. N/A TO STA. N/A

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	11
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

PLAN	DATE
BY	
REVIEWED	
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

PROFILE	DATE
BY	
REVIEWED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

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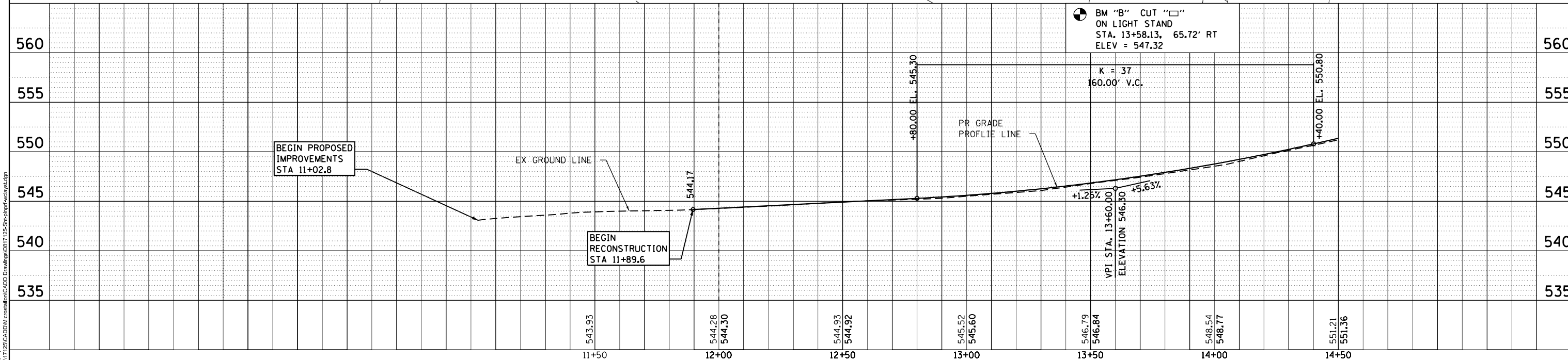
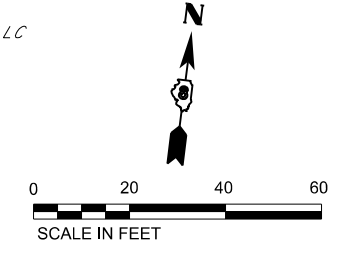
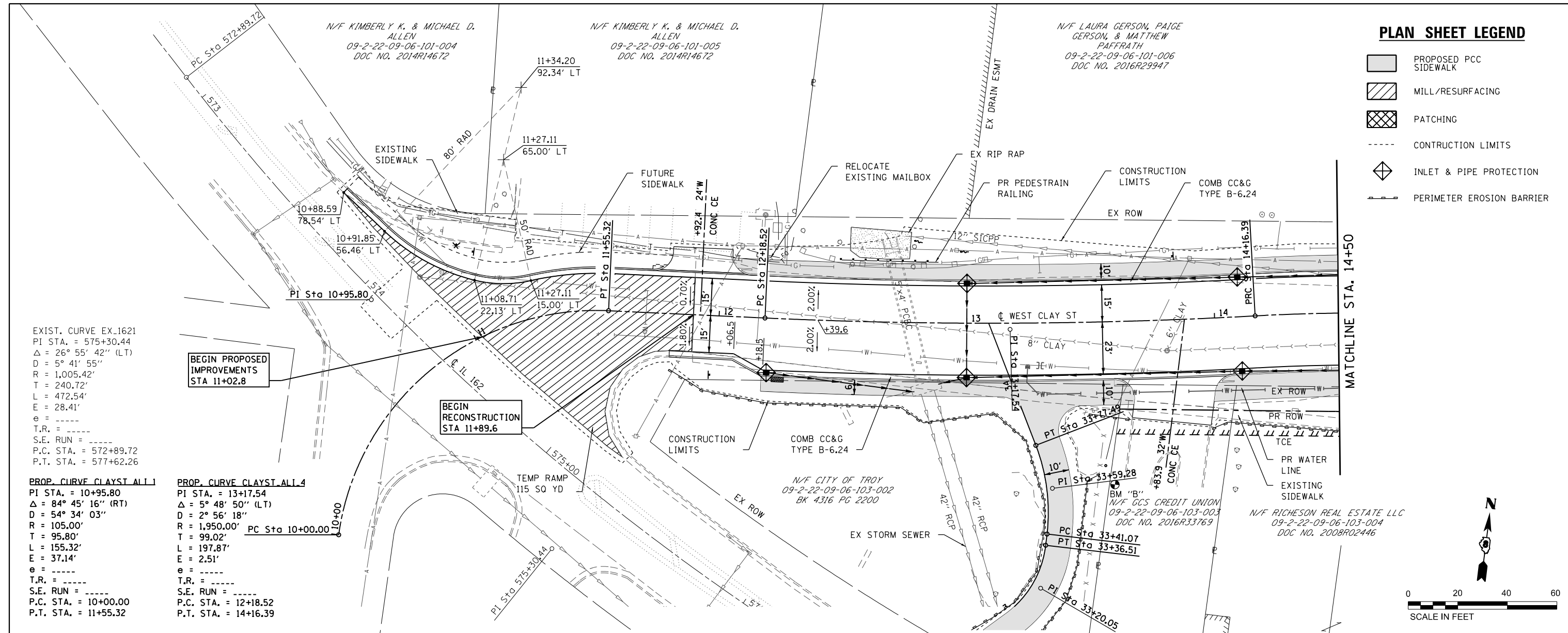
EXIST. CURVE EX.1621
 PI STA. = 575+30.44
 $\Delta = 26^\circ 55' 42''$ (LT)
 $D = 5^\circ 41' 55''$
 $R = 1,005.42'$
 $T = 240.72'$
 $L = 472.54'$
 $E = 28.41'$
 $e = \text{---}$
 T.R. = ---
 S.E. RUN = ---
 P.C. STA. = 572+89.72
 P.T. STA. = 577+62.26

PROP. CURVE CLAYST.ALT.1
 PI STA. = 10+95.80
 $\Delta = 84^\circ 45' 16''$ (RT)
 $D = 54^\circ 34' 03''$
 $R = 105.00'$
 $T = 95.80'$
 $L = 155.32'$
 $E = 37.14'$
 $e = \text{---}$
 T.R. = ---
 S.E. RUN = ---
 P.C. STA. = 10+00.00
 P.T. STA. = 11+55.32

PROP. CURVE CLAYST.ALT.4
 PI STA. = 13+17.54
 $\Delta = 5^\circ 48' 50''$ (LT)
 $D = 2^\circ 56' 18''$
 $R = 1,950.00'$
 $T = 99.02'$
 $L = 197.87'$
 $E = 2.51'$
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 T.R. = ---
 S.E. RUN = ---
 P.C. STA. = 12+18.52
 P.T. STA. = 14+16.39

PLAN SHEET LEGEND

- PROPOSED PCC SIDEWALK
- MILL/RESURFACING
- PATCHING
- CONSTRUCTION LIMITS
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER



 OATES ASSOCIATES www.oatesassociates.com ILLINOIS DESIGN FIRM LICENSE NO.: 184,001115	USER NAME = blllthdall DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	CITY OF TROY WEST CLAY STREET PLAN AND PROFILE SHEETS SCALE: 1" = 20' SHEET 2 OF 5 SHEETS STA. 10+00 TO STA. 14+50	MUN. RTE. SECTION COUNTY MADISON TOTAL SHEETS 29 SHEET NO. 12 CONTRACT NO. 97691
	PLOT SCALE = 40,000' / 1"	DATE -		ILLINOIS FED. AID PROJECT

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

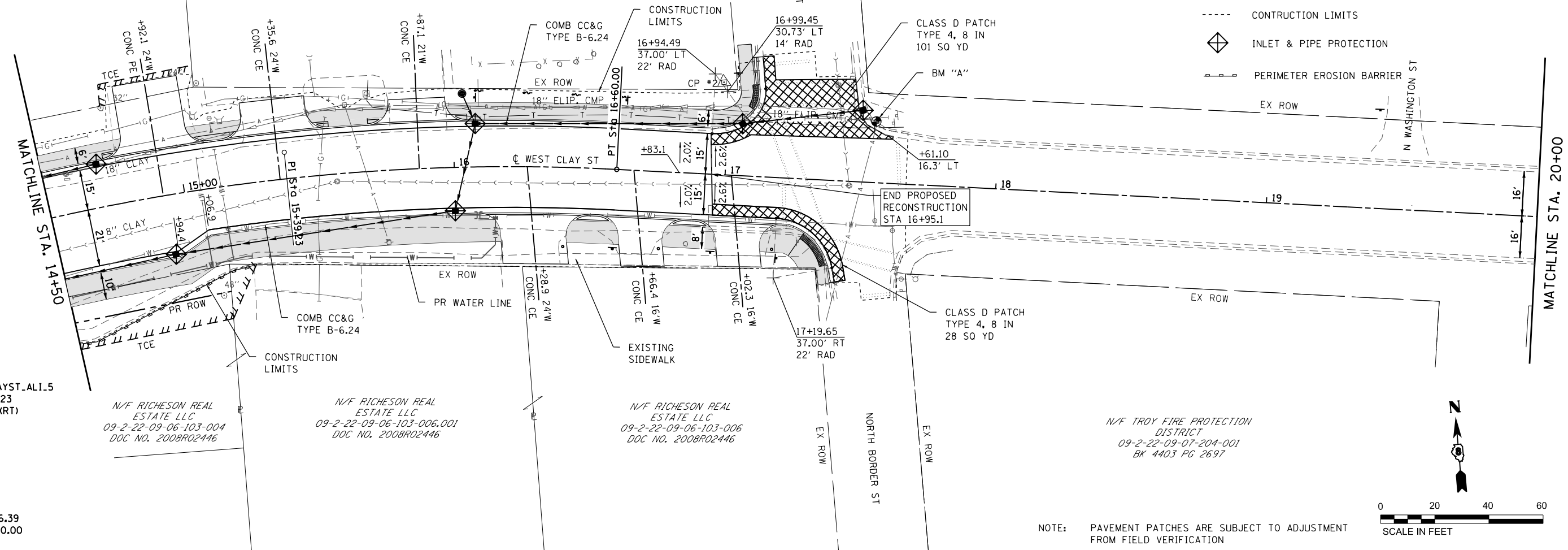
PLAN SHEET LEGEND

- PROPOSED PCC SIDEWALK
- MILL/RESURFACING
- PATCHING
- CONSTRUCTION LIMITS
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER

N/F LAURA GERSON, PAIGE GERSON, & MATTHEW PAFFRATH
09-2-22-09-06-101-006
DOC NO. 2016R29947

N/F ST. PAULS EVANGELICAL LUTHERAN CHURCH
09-2-22-09-06-101-007

N/F DANIEL K. & METTISA R. K. MCLEOD
09-2-22-09-07-201-007
DOC NO. 2014R32764



PROP. CURVE CLAYST.ALI.5
PI STA. = 15+39.23
Δ = 18° 13' 29" (RT)
D = 7° 28' 52"
R = 765.87'
L = 122.84'
T = 243.61'
E = 9.79'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 14+16.39
P.T. STA. = 16+60.00

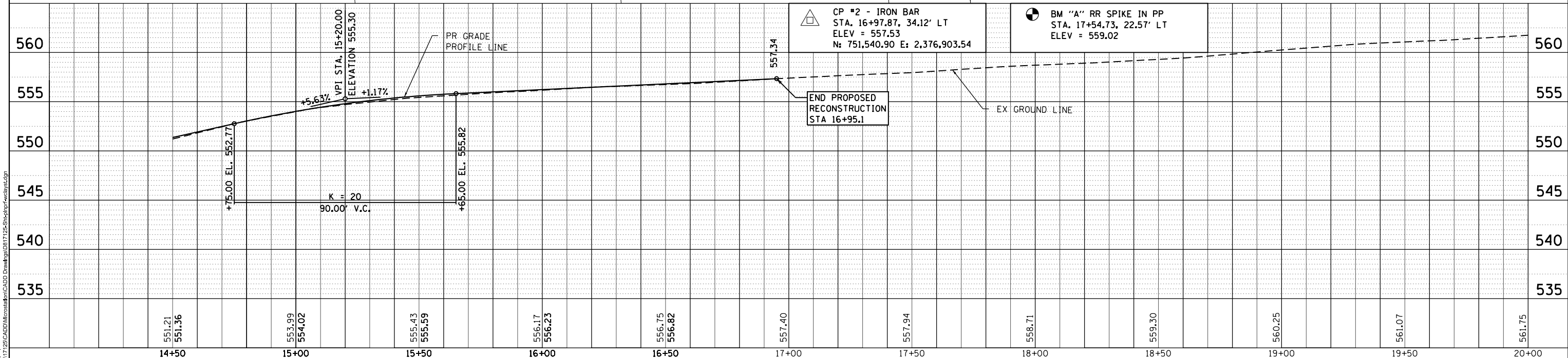
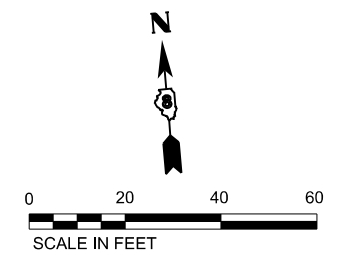
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09-2-22-09-06-103-004
DOC NO. 2008R02446

N/F RICHESON REAL ESTATE LLC
09-2-22-09-06-103-006
DOC NO. 2008R02446

N/F RICHESON REAL ESTATE LLC
09-2-22-09-06-103-006
DOC NO. 2008R02446

N/F TROY FIRE PROTECTION DISTRICT
09-2-22-09-07-204-001
BK 4403 PG 2697

NOTE: PAVEMENT PATCHES ARE SUBJECT TO ADJUSTMENT FROM FIELD VERIFICATION



551.21	551.36	553.99	554.02	555.43	555.59	556.17	556.23	556.75	556.82	557.40	557.94	558.71	559.30	560.25	561.07	561.75
14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00					

ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

USER NAME = blllindall	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,000' / 1"	CHECKED -	REVISED -
PLOT DATE = 4/24/2019	DATE -	REVISED -

CITY OF TROY

**WEST CLAY STREET
PLAN AND PROFILE SHEETS**

SCALE: 1" = 20'

SHEET 3 OF 5 SHEETS





STA. 10+00 TO STA. 15+00

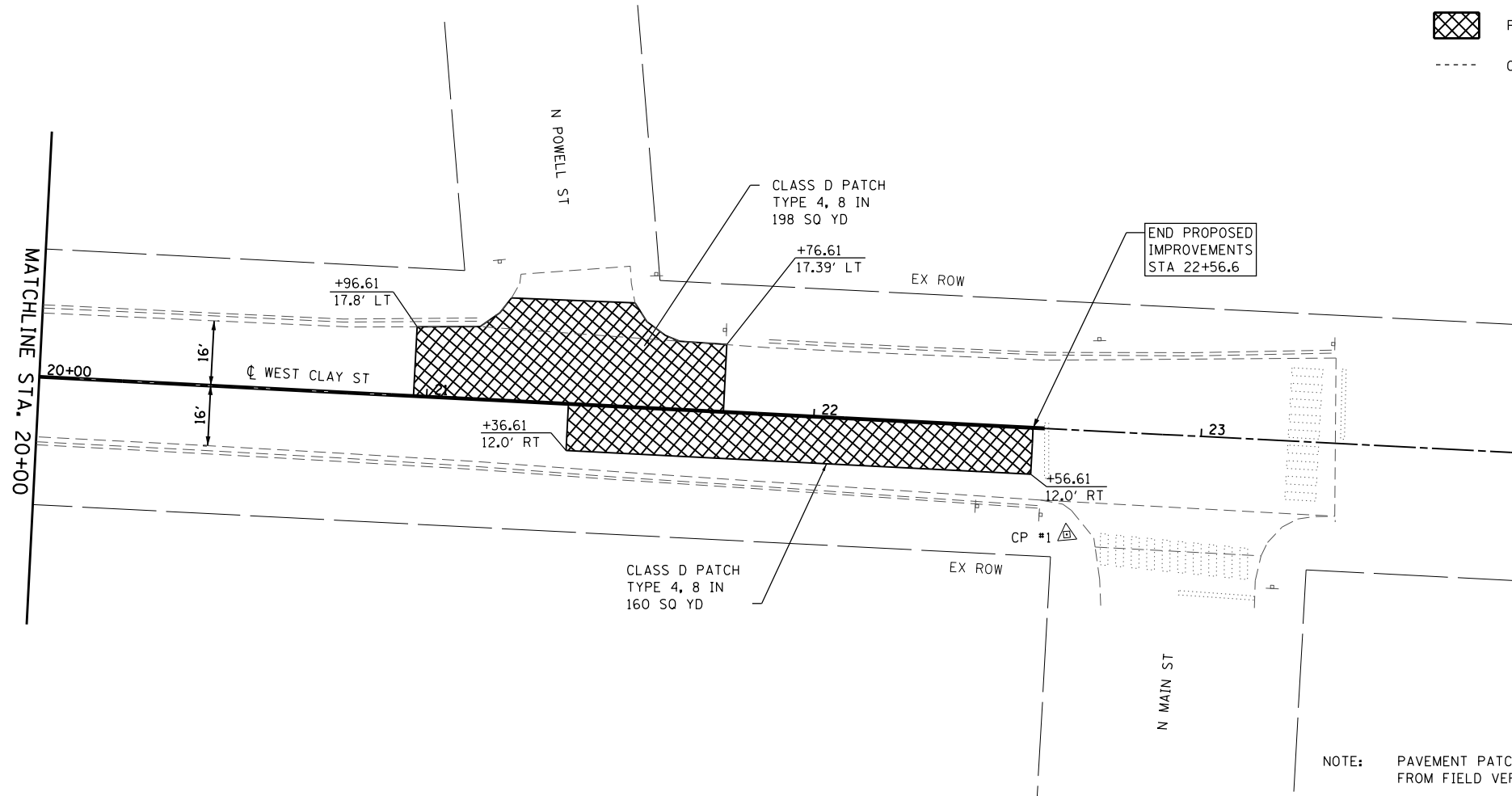
M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	13
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
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NOTE BOOK NO.	CADD FILE NAME	

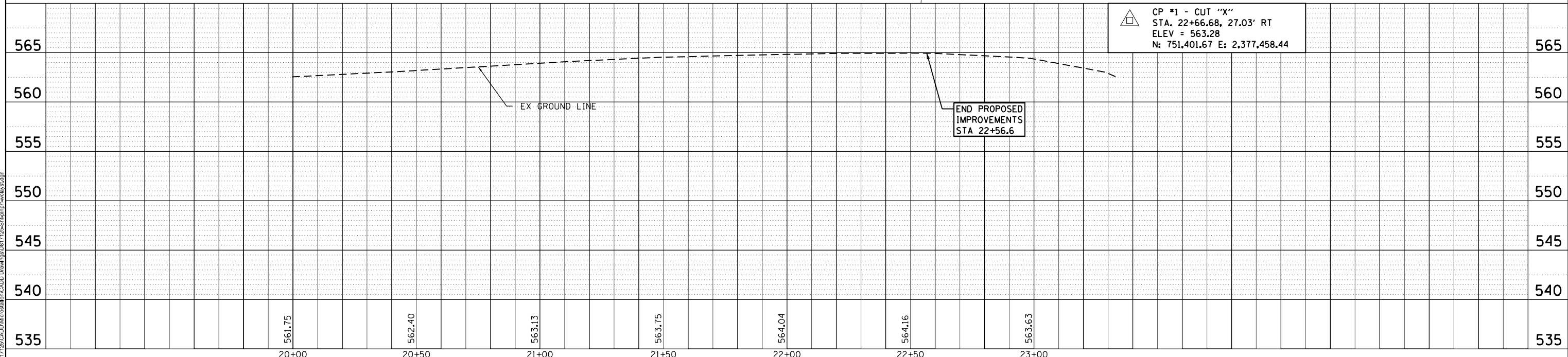
PLAN SHEET LEGEND

-  PROPOSED PCC SIDEWALK
-  MILL/RESURFACING
-  PATCHING
-  CONSTRUCTION LIMITS



NOTE: PAVEMENT PATCHES ARE SUBJECT TO ADJUSTMENT FROM FIELD VERIFICATION

CP #1 - CUT "X"
 STA. 22+66.68, 27.03' RT
 ELEV = 563.28
 N: 751,401.67 E: 2,377,458.44



MODEL: d87125-plnprf-urban17
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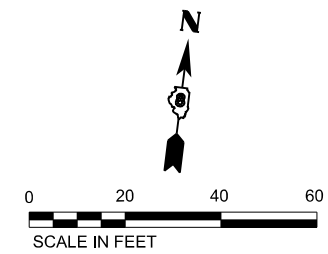
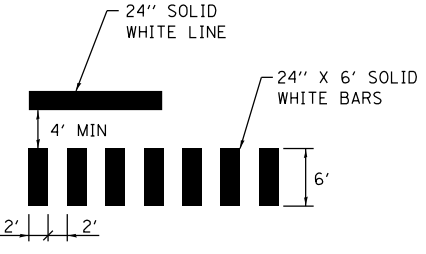
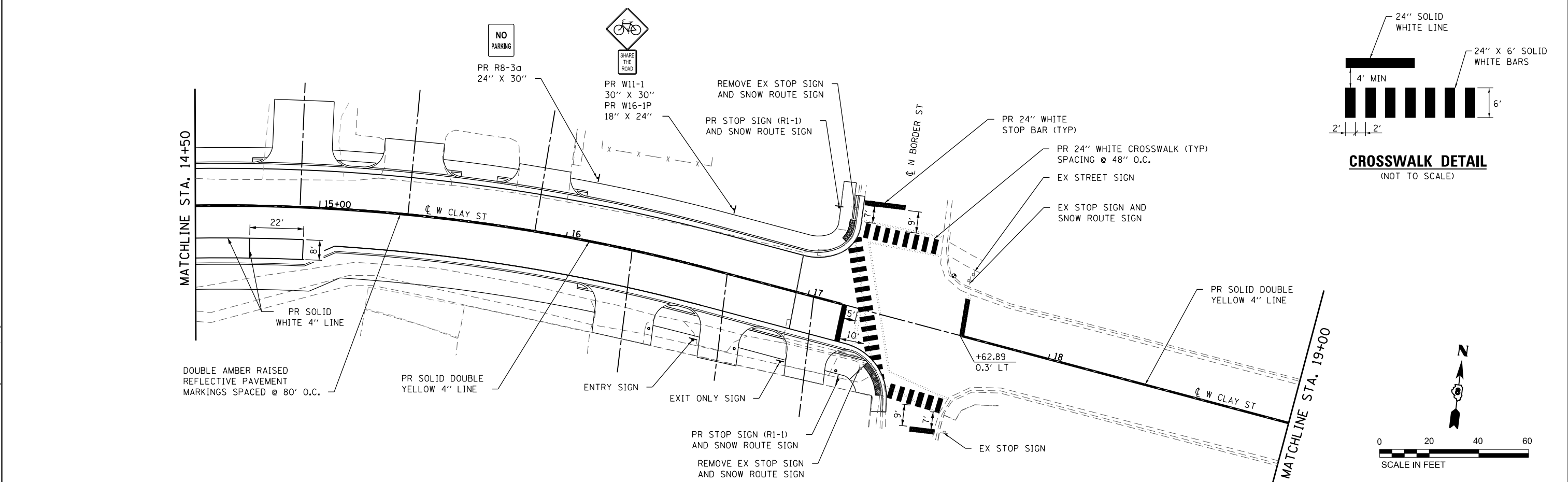
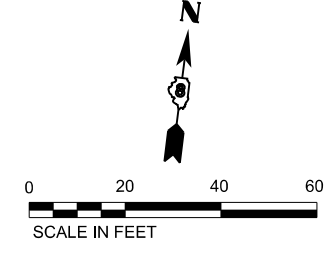
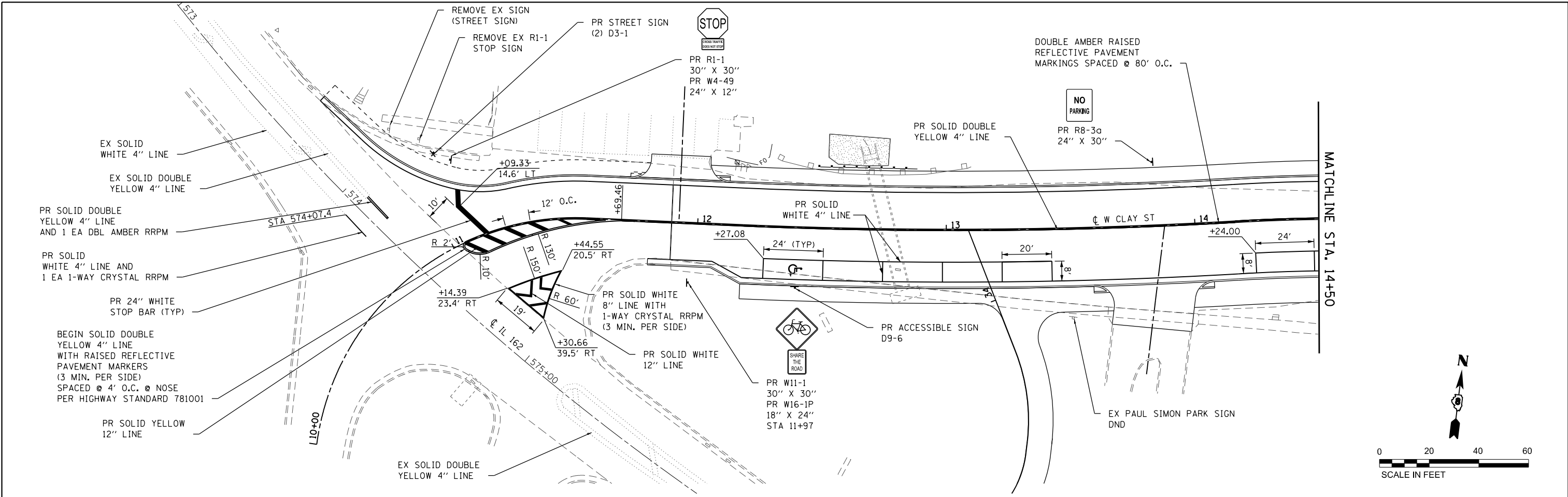
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		DRAWN -	REVISED -
PLOT SCALE =	40,0000' / 1"	CHECKED -	REVISED -
PLOT DATE =	3/22/2019	DATE -	REVISED -

CITY OF TROY

**WEST CLAY STREET
 PLAN AND PROFILE SHEETS**

SCALE: 1" = 20' SHEET 4 OF 5 SHEETS STA. 10+00 TO STA. 15+00

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	14
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				



MODEL: Sheet 1
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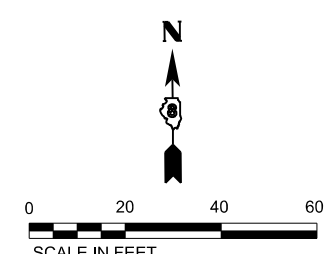
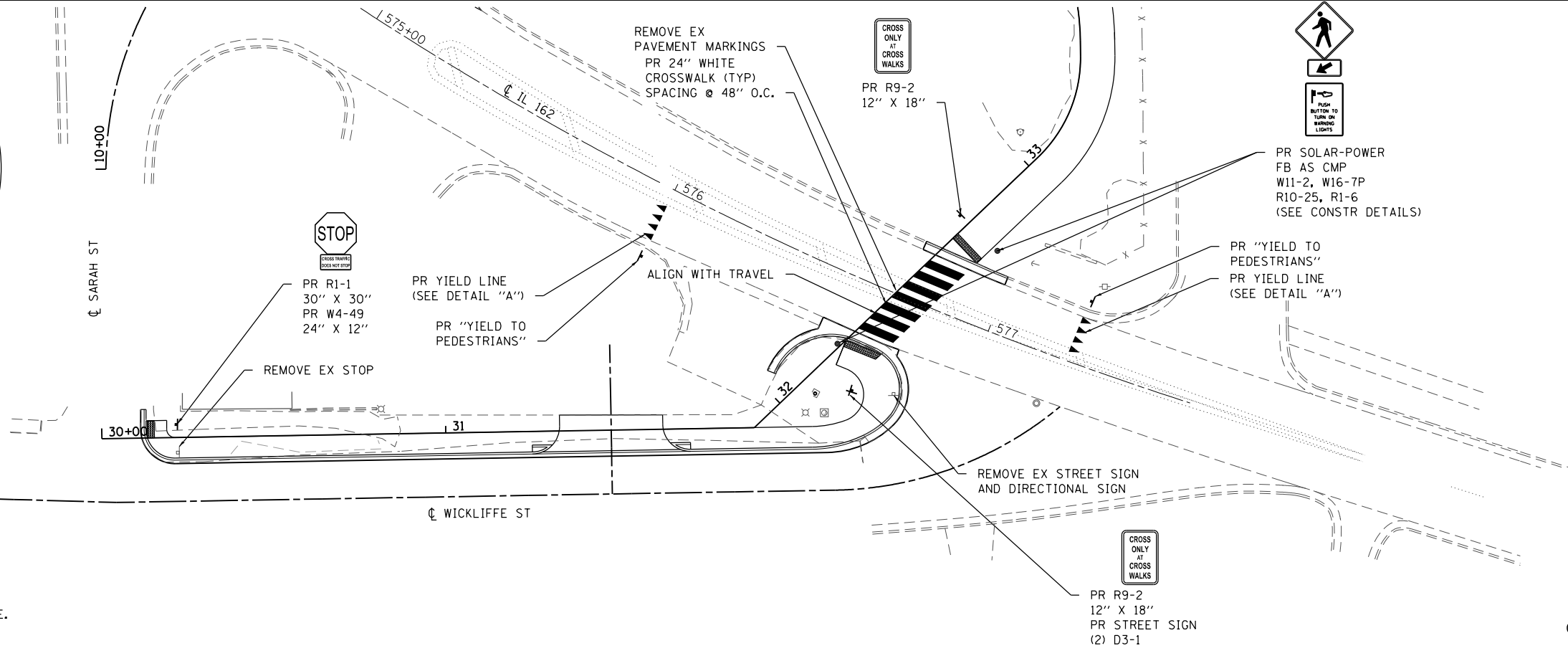
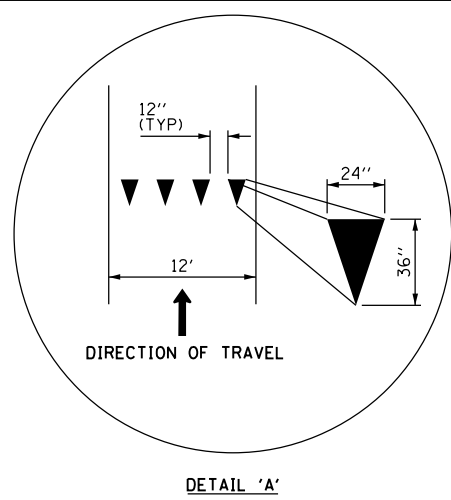
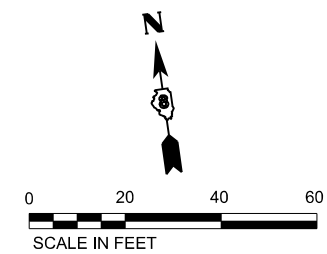
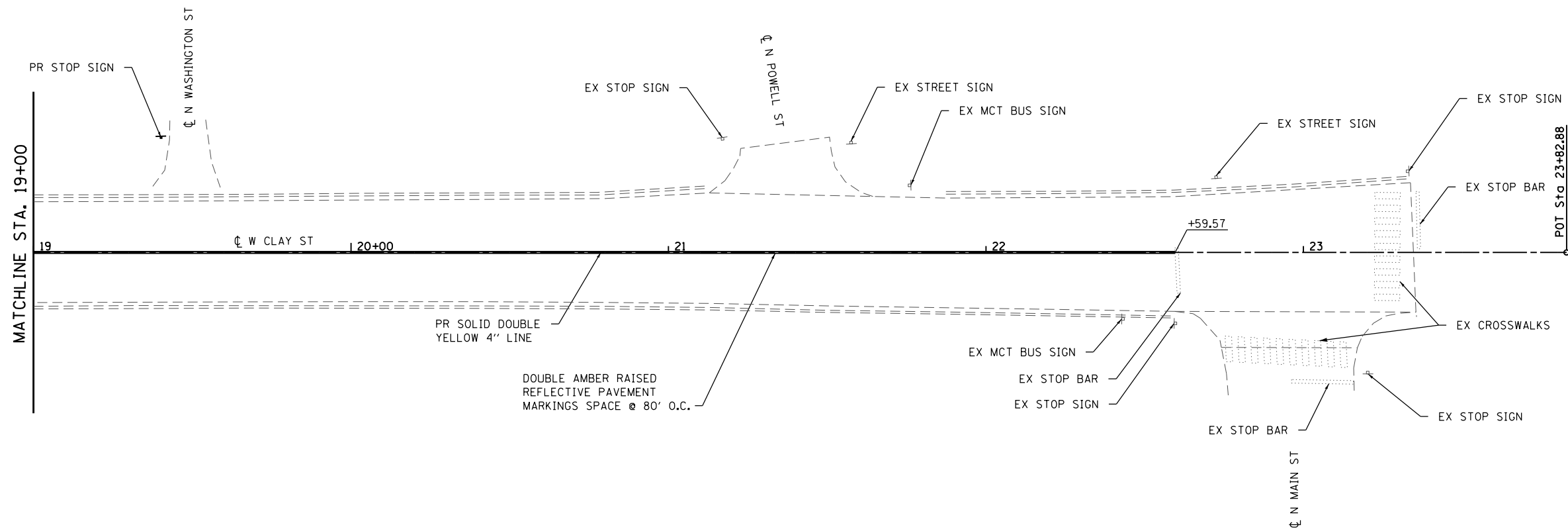
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PLOT SCALE = 40,0000' / 1"	DRAWN -	REVISED -
DATE = 4/24/2019	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF TROY

PAVEMENT MARKING & SIGNING SHEETS

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. 10+00 TO STA. 19+00

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	16
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				



NOTE: EXISTING (EX) ITEMS ARE TO REMAIN IN PLACE UNLESS DIRECTED OTHERWISE.

MODEL: Sheet 2
FILE NAME: P:\1725\CADD\micromaster\CADD Drawings\01725-Shop\mk.dgn



USER NAME =	bill.thdall
PLOT SCALE =	40,0000' / 1"
PLOT DATE =	3/22/2019

DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

REVISED -	
REVISED -	
REVISED -	
REVISED -	

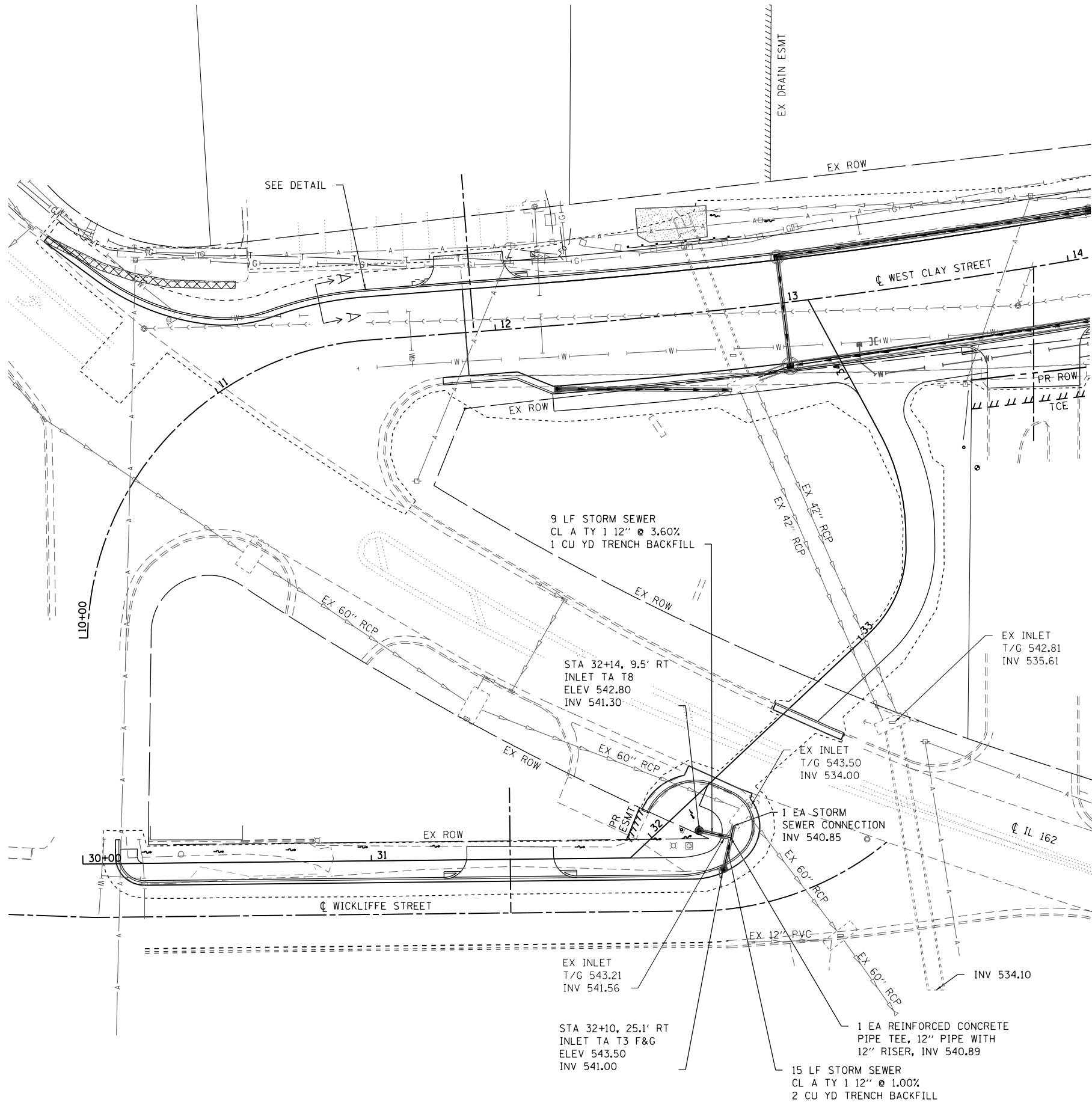
CITY OF TROY

PAVEMENT MARKING & SIGNING SHEETS

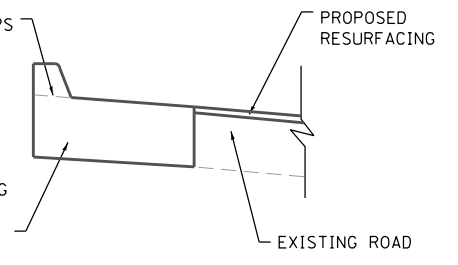
SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. VARIES TO STA. VARIES

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	17
CONTRACT NO. 97691				

ILLINOIS FED. AID PROJECT



DEPRESSED CURB TOP
LOCATION FOR ENTRANCES
AND ADA COMPLIANT RAMPS



PR COMB CONC C&G
TYPE B-6.24
(SEE STD 606001)

NOTE: FROM STA 10+88.6 LT TO STA 11+80.0 LT
GUTTER CROSS SLOPE TO MATCH EXISTING
ROADWAY CROSS SLOPE.

DETAIL A-A
(NOT TO SCALE)

9 LF STORM SEWER
CL A TY 12" @ 3.60%
1 CU YD TRENCH BACKFILL

STA 32+14, 9.5' RT
INLET TA T8
ELEV 542.80
INV 541.30

EX INLET
T/G 543.50
INV 534.00

1 EA STORM
SEWER CONNECTION
INV 540.85

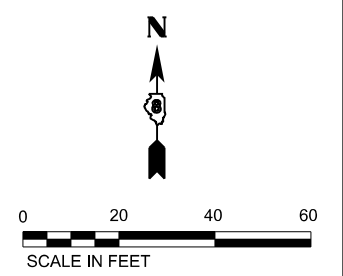
EX INLET
T/G 543.21
INV 541.56

STA 32+10, 25.1' RT
INLET TA T3 F&G
ELEV 543.50
INV 541.00

1 EA REINFORCED CONCRETE
PIPE TEE, 12" PIPE WITH
12" RISER, INV 540.89

15 LF STORM SEWER
CL A TY 12" @ 1.00%
2 CU YD TRENCH BACKFILL

NOTE: INVERTS OF EXISTING STORM SEWER STRUCTURES TO BE VERIFIED
BY THE CONTRACTOR BEFORE INSTALLATION OF STORM SEWER.



MODEL: Sheet 2
FILE NAME: P:\15-00031-00-00\15-00031-00-00-02.dwg
ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115



USER NAME = bllthdall
PLOT SCALE = 40,000' / 1"
PLOT DATE = 3/22/2019

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

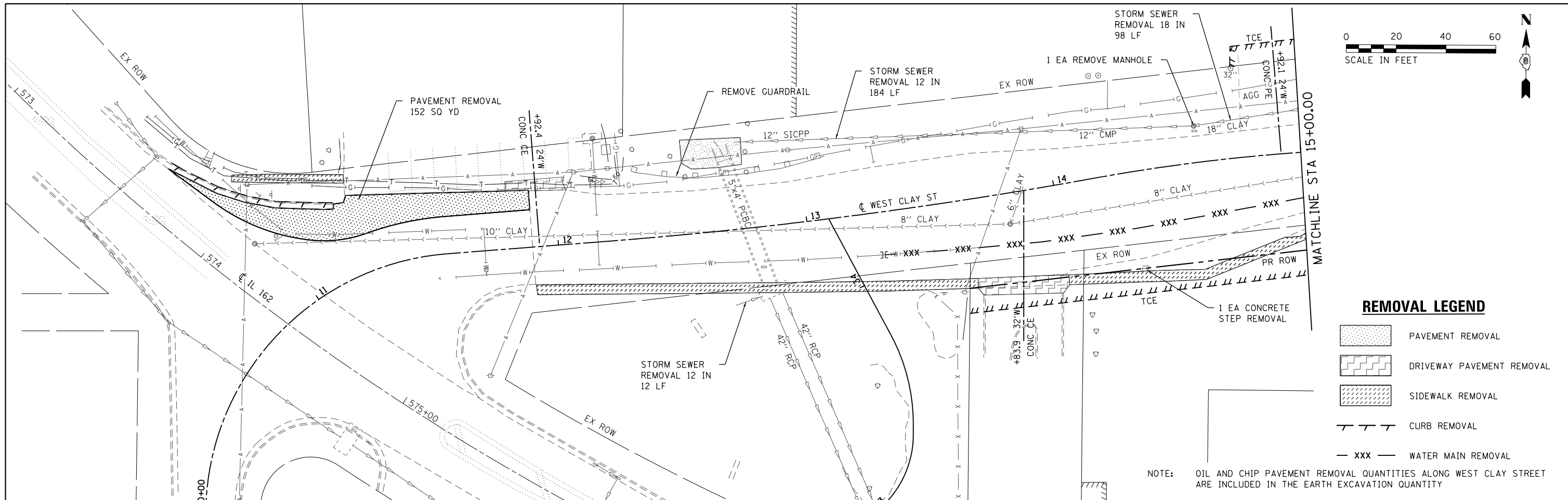
CITY OF TROY

DRAINAGE PLAN & PROFILE SHEETS

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	19
CONTRACT NO. 97691				

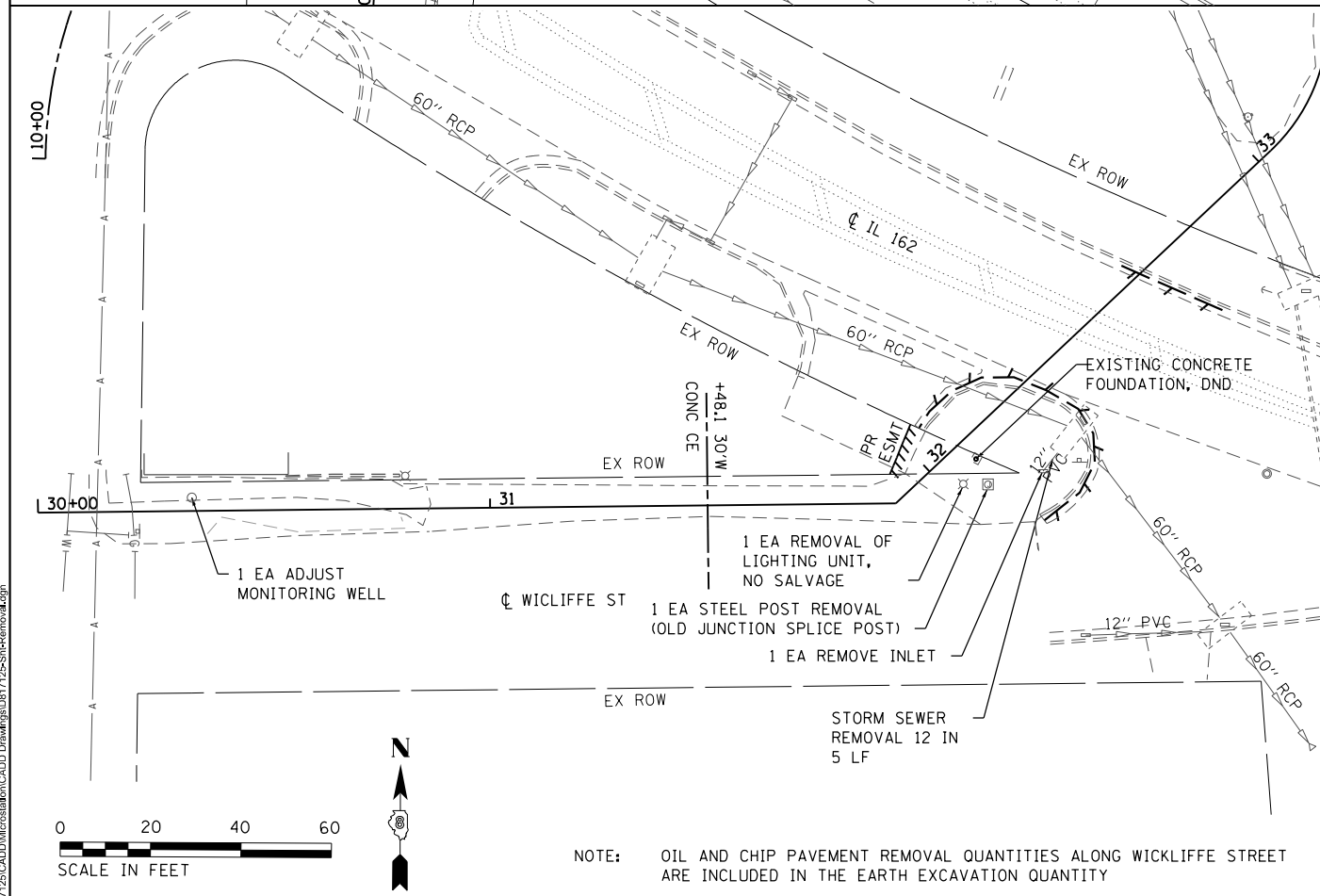
ILLINOIS FED. AID PROJECT



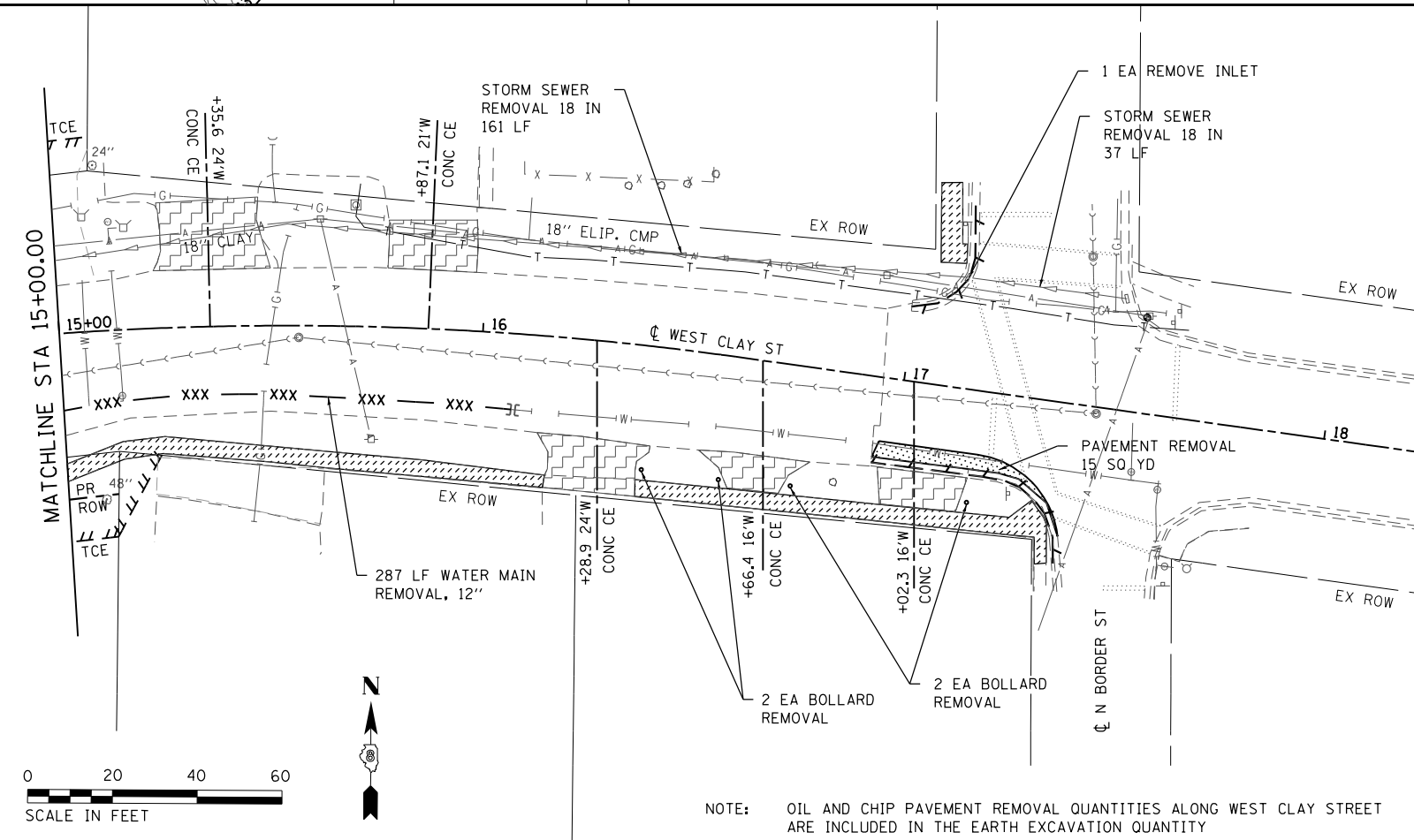
REMOVAL LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- CURB REMOVAL
- WATER MAIN REMOVAL

NOTE: OIL AND CHIP PAVEMENT REMOVAL QUANTITIES ALONG WEST CLAY STREET ARE INCLUDED IN THE EARTH EXCAVATION QUANTITY



NOTE: OIL AND CHIP PAVEMENT REMOVAL QUANTITIES ALONG WICKLIFFE STREET ARE INCLUDED IN THE EARTH EXCAVATION QUANTITY



NOTE: OIL AND CHIP PAVEMENT REMOVAL QUANTITIES ALONG WEST CLAY STREET ARE INCLUDED IN THE EARTH EXCAVATION QUANTITY

MODEL: Sheet 1
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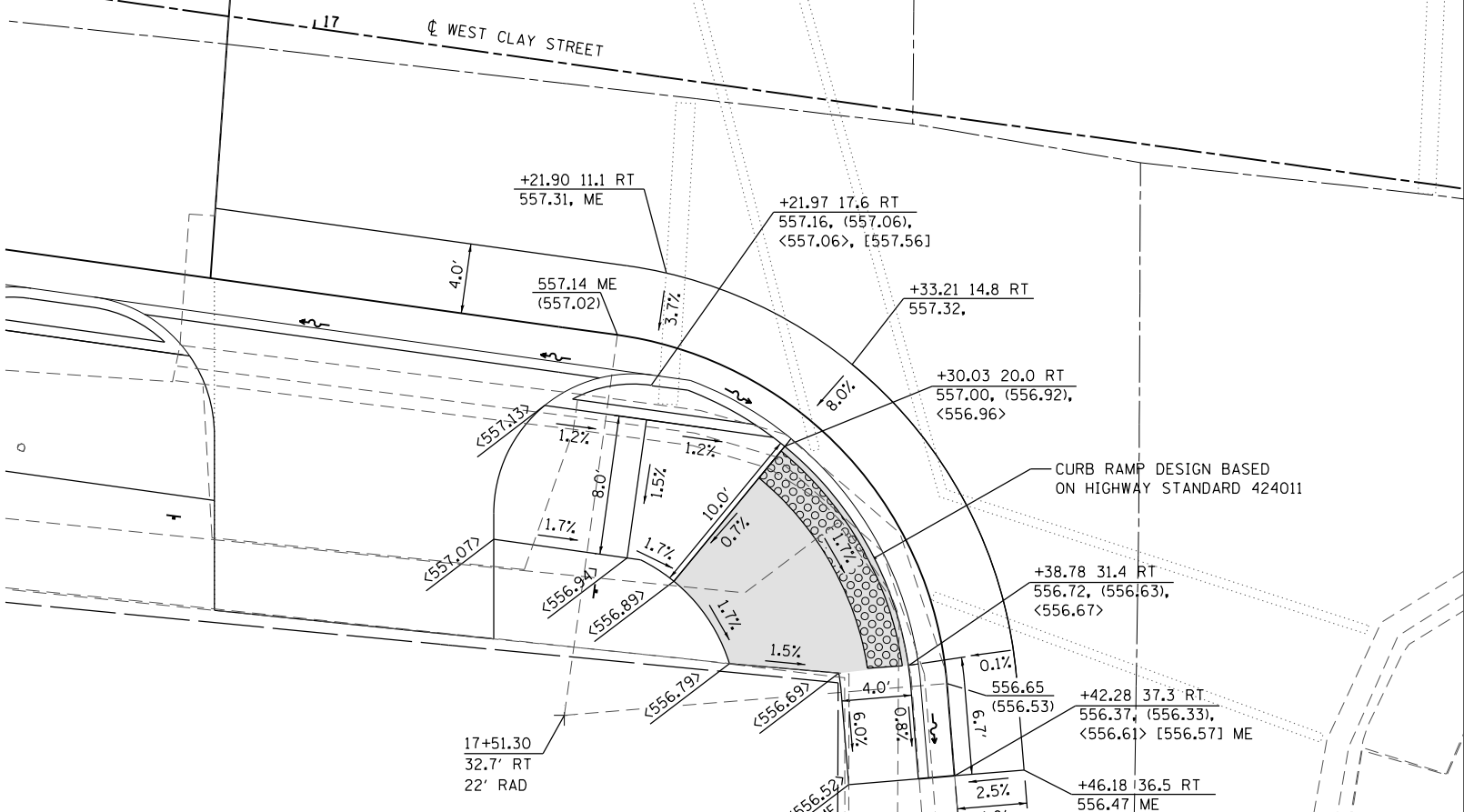
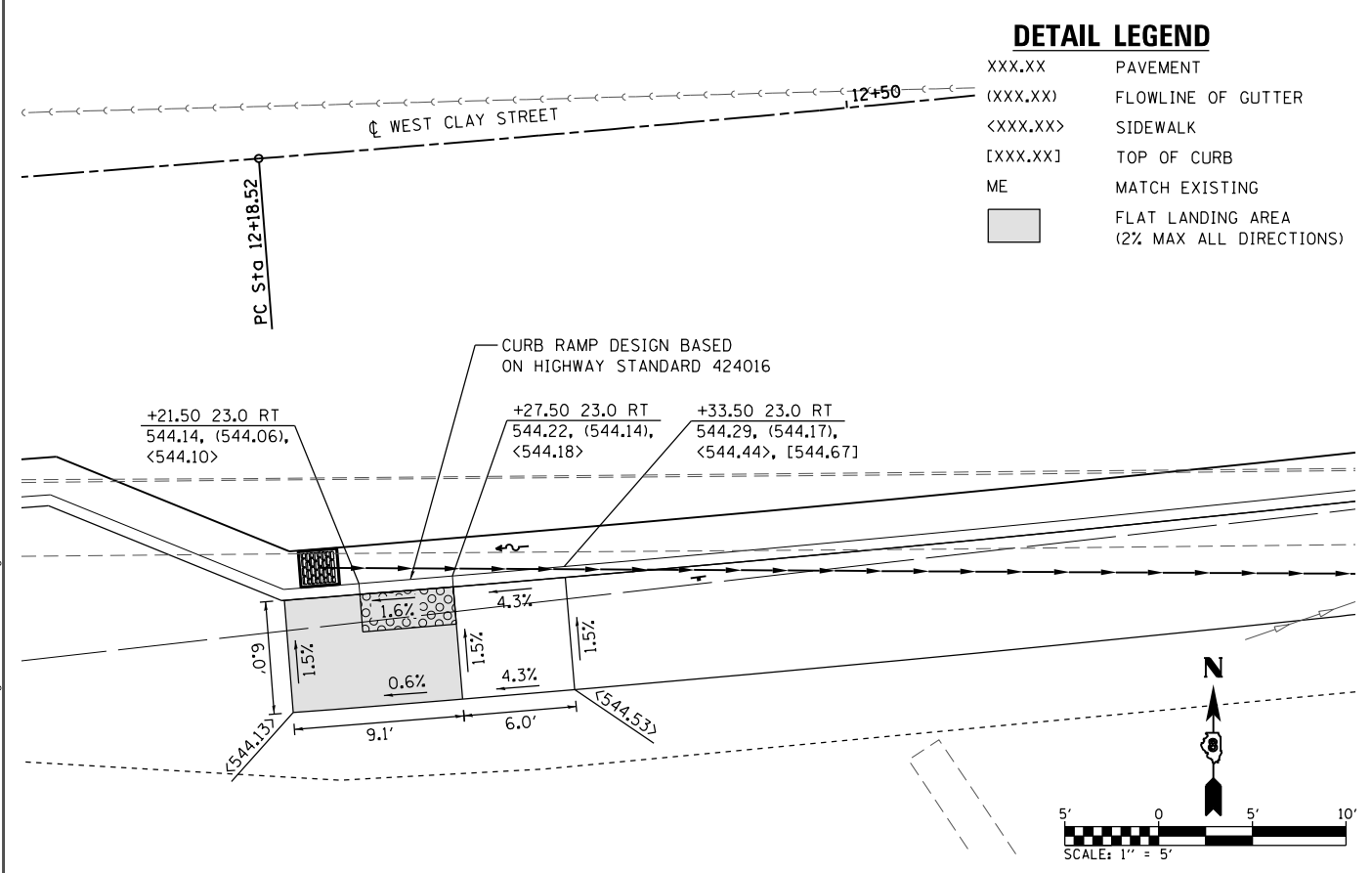
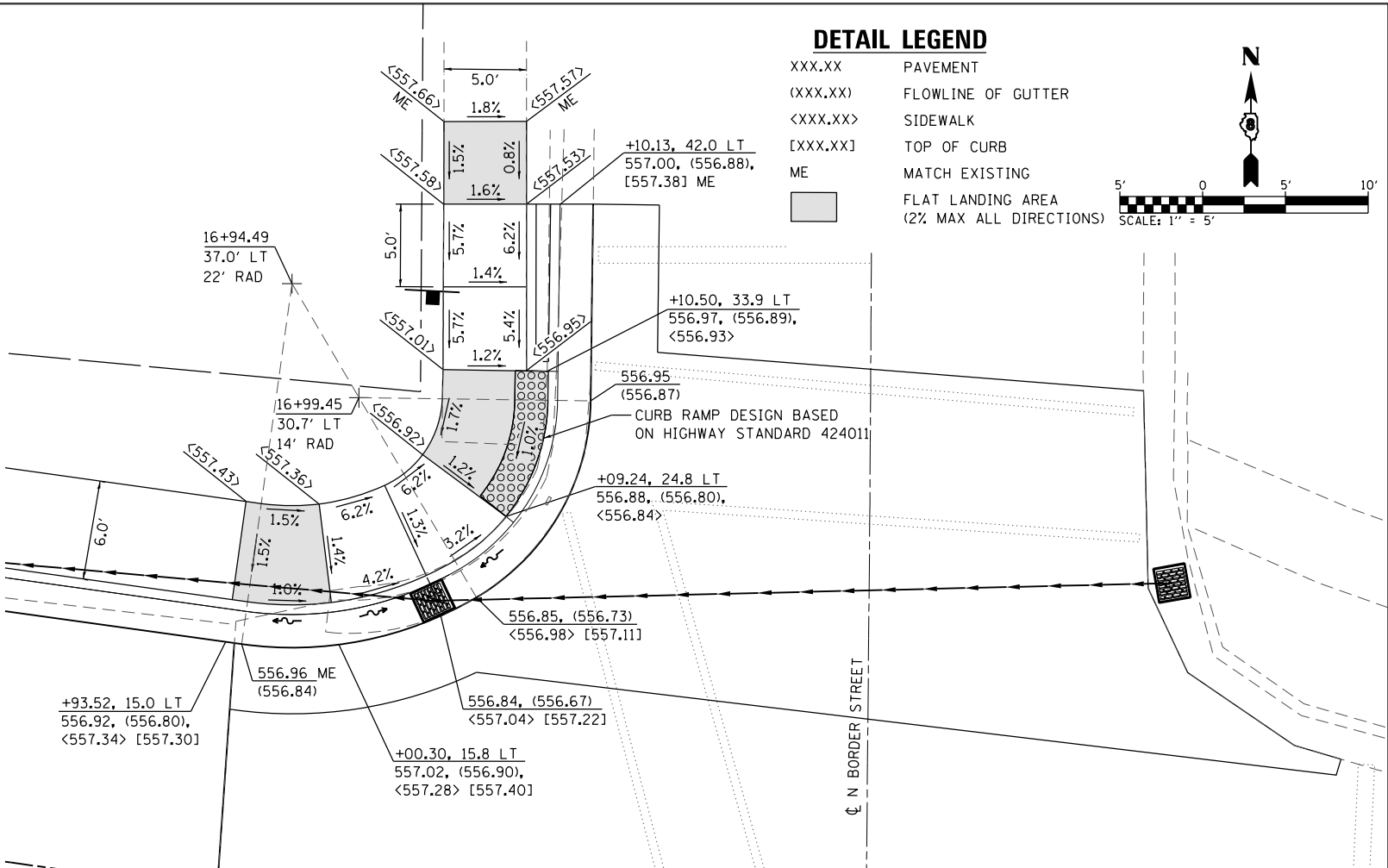
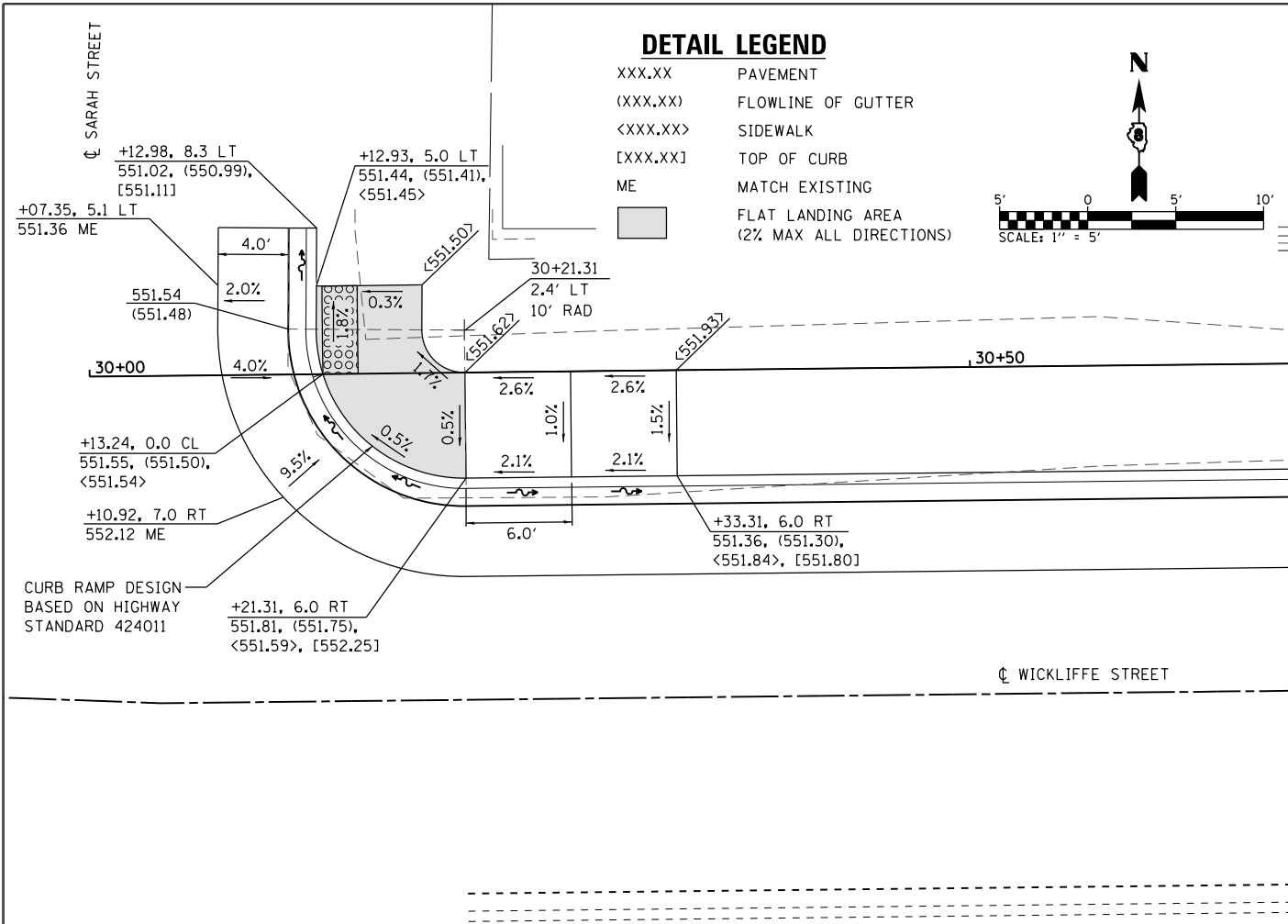
USER NAME = bill.tindall	DESIGNED -	REVISED -
PLOT SCALE = 40,000' / 1"	DRAWN -	REVISED -
PLOT DATE = 4/24/2019	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF TROY

REMOVAL PLAN SHEETS

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	20
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				



MODEL: 01 Sheet1
 FILE NAME: P:\17125\CADD\MicroStation\CADD Drawings\01\17125-Submittals.dgn
 ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115



USER NAME = bllindall	DESIGNED -	REVISED -
PLOT SCALE = 10,000' / 1"	DRAWN -	REVISED -
PLOT DATE = 3/22/2019	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF TROY

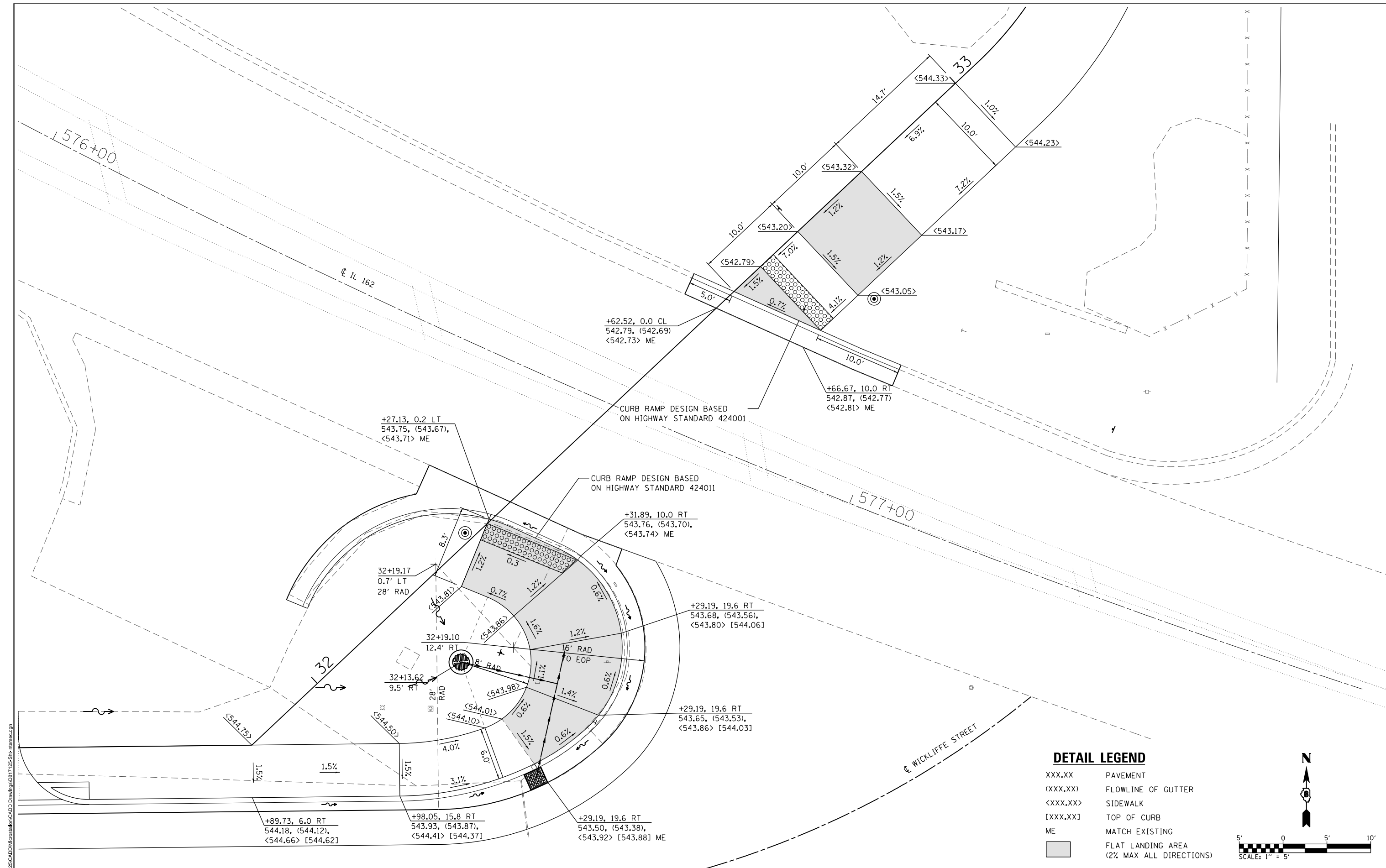
CURB RAMP DETAILS

SCALE: 1" = 5' SHEET 1 OF 2 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	21

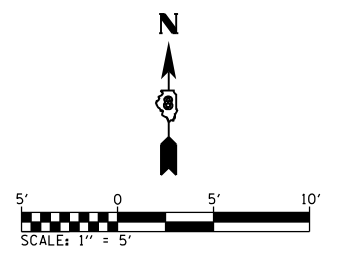
CONTRACT NO. 97691

ILLINOIS FED. AID PROJECT



DETAIL LEGEND

- XXX.XX PAVEMENT
- (XXX.XX) FLOWLINE OF GUTTER
- <XXX.XX> SIDEWALK
- [XXX.XX] TOP OF CURB
- ME MATCH EXISTING
- FLAT LANDING AREA (2% MAX ALL DIRECTIONS)



MODEL: 00 Sheet 2
 FILE NAME: P:\21725\CADD\MicroStation\CADD Drawings\017125-SubArea.dgn
 ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115



USER NAME = bill.tindall	DESIGNED -	REVISED -
PLOT SCALE = 10,0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 3/22/2019	CHECKED -	REVISED -
	DATE -	REVISED -

CITY OF TROY

CURB RAMP DETAILS

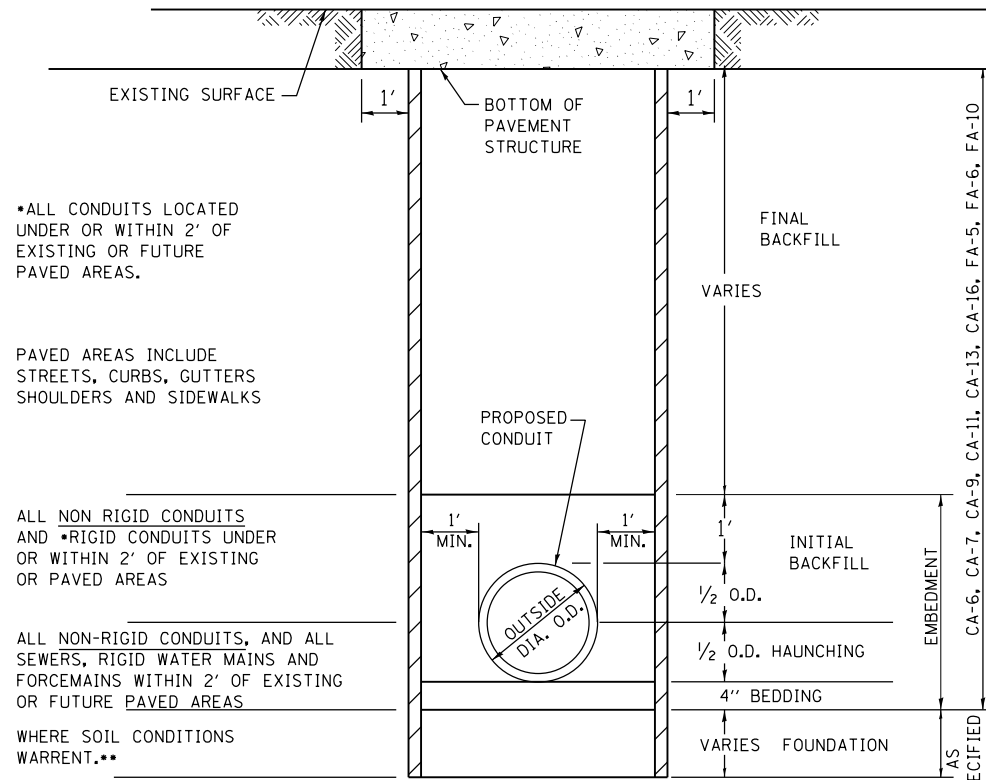
SCALE: 1" = 5' SHEET 2 OF 2 SHEETS STA. TO STA.

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	22
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

IDENTIFICATION OF WHERE SELECT GRANULAR MATERIAL IS REQUIRED

WIDTH OF PERMANENT PAVEMENT REMOVAL AND REPLACEMENT FOR PAYMENT PURPOSES

TERMINOLOGY, DIMENSIONS AND TYPE OF SELECT MATERIAL, WHEN REQUIRED



• ALL CONDUITS LOCATED UNDER OR WITHIN 2' OF EXISTING OR FUTURE PAVED AREAS.

PAVED AREAS INCLUDE STREETS, CURBS, GUTTERS SHOULDERS AND SIDEWALKS

ALL NON RIGID CONDUITS AND •RIGID CONDUITS UNDER OR WITHIN 2' OF EXISTING OR PAVED AREAS

ALL NON-RIGID CONDUITS, AND ALL SEWERS, RIGID WATER MAINS AND FORCEMAINS WITHIN 2' OF EXISTING OR FUTURE PAVED AREAS

WHERE SOIL CONDITIONS WARRENT. ••

6" ALLOWANCE FOR TRENCH SHORING, BRACING OR BOX. TYPICAL BOTH SIDES

• INDICATES ELIGIBLE FOR PAYMENT AS SELECT GRANULAR BACKFILL OTHERWISE INCIDENTAL TO THE PIPE.

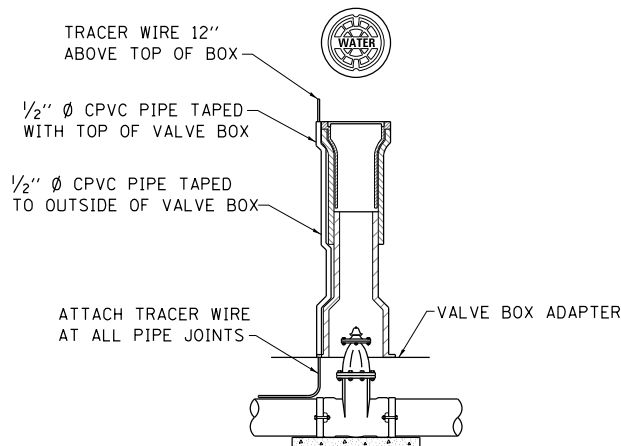
•• INDICATES ELIGIBLE FOR PAYMENT AS SELECT FOUNDATION MATERIAL

NON RIGID CONDUITS ARE DEFINED AS FLEXIBLE THERMOPLASTIC PIPE AND/OR CORRUGATED METAL PIPE.

NOTE: TRENCH BOX SHALL NOT EXTEND BELOW THE TOP OF PIPE, HOWEVER IT SHALL NOT EXCEED 2 FEET FROM THE BOTTOM OF THE TRENCH.

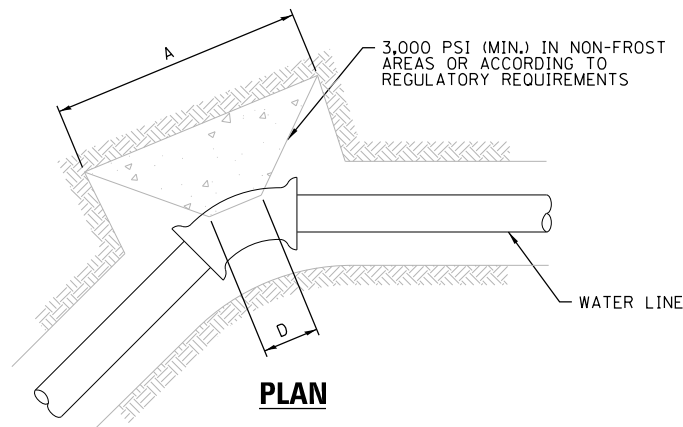
WATER MAIN DETAIL

(NOT TO SCALE)

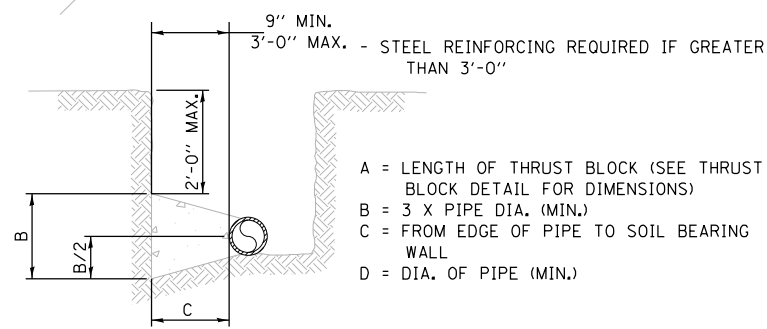


GATE VALVE INSTALLATION DETAIL

(NOT TO SCALE)



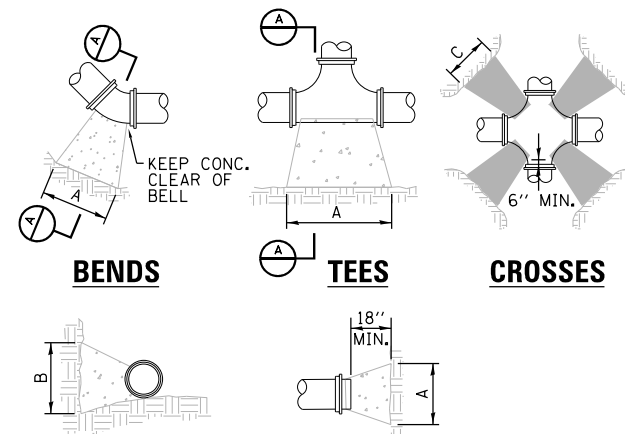
PLAN



ELEVATION

THRUST BLOCK AT HORIZONTAL BENDS DETAIL

(NOT TO SCALE)



BENDS

TEES

CROSSES

SECTION A-A

PLUGS

NOTES:

- COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 30" MINIMUM, 72" MAXIMUM ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
- THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
- NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
- THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
- BASED ON 200 PSI (150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER) AND 2000 PSF SOIL BEARING.
- POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS.
- PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
- ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
- ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH ASPHALT CEMENT AFTER CONCRETE HAS SET.
- ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
- THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
- PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN 3000 PSI CONCRETE.
- FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
- FOR MAIN SIZES GREATER THAN 16", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.

REQUIRED BEARING AREA ON UNDISTURBED SOIL AND TYPICAL DIMENSIONS

PIPE SIZE	90 DEGREE BENDS			45 DEGREE BENDS			11.25 DEGREE BENDS			22.5 DEGREE BENDS			TEES/PLUGS		
	AREA (SQ FT)	"A"	"B"	AREA (SQ FT)	"A"	"B"	AREA (SQ FT)	"A"	"B"	AREA (SQ FT)	"A"	"B"	AREA (SQ FT)	"A"	"B"
6"	5.3	43"	18"	2.9	23"	18"	0.7	6"	18"	1.5	12"	18"	3.7	30"	18"
8"	9.2	55"	24"	5	30"	24"	1.3	8"	24"	2.5	15"	24"	6.4	39"	24"
10"	13.8	66"	30"	7.5	36"	30"	1.9	9"	30"	3.8	18"	30"	9.7	46"	30"
12"	19.4	78"	36"	10.6	42"	36"	2.7	11"	36"	5.3	21"	36"	13.8	55"	36"
14"	26	89"	42"	14	48"	42"	3.6	12"	42"	7.2	25"	42"	18.5	63"	42"
16"	33.7	101"	48"	18.3	55"	48"	4.7	14"	48"	9.4	28"	48"	23.9	72"	48"

- Bearing table area is based on 200 psi maximum with soil bearing capacity of 2000 lbs/square foot.
- For higher water pressures or lower soil pressures, consult Engineer for adjustments.
- Bearing table area does not include a safety factor, a safety factor and additional bearing area may be required as directed by the Engineer.

THRUST BLOCK DETAILS

(NOT TO SCALE)

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 PLOT DATE = 3/22/2019

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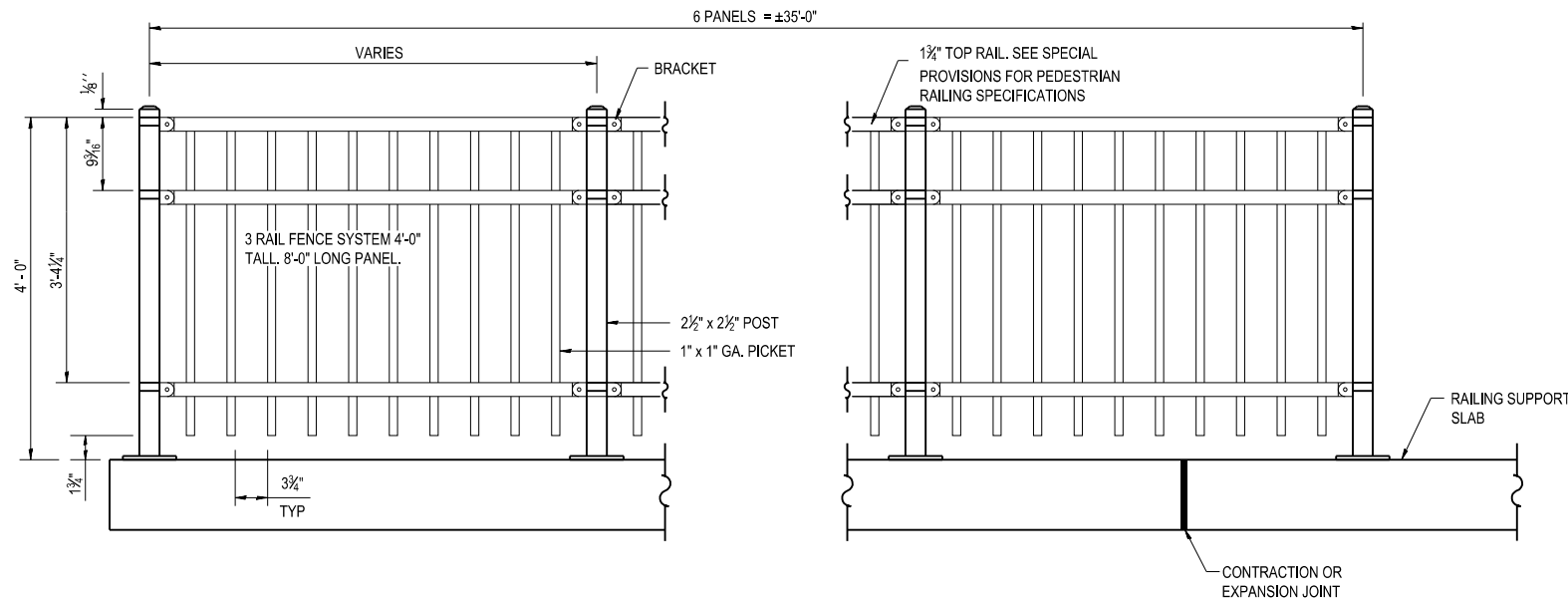
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CITY OF TROY

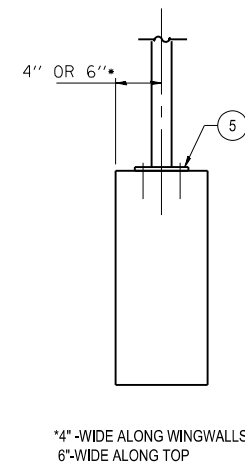
CONSTRUCTION DETAILS

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. N/A TO STA. N/A

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	23
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				



PEDESTRIAN RAILING



RAILING SUPPORT SLAB DETAIL

NOTES

RAILING SHALL BE ACCORDING TO SECTION 509 OF THE IDOT STANDARD SPECIFICATIONS, EXCEPT AS NOTED.

HOLLOW STRUCTURAL STEEL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A 500, GRADE B, STRUCTURAL STEEL TUBING.

ALL OTHER STEEL SHAPES AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270 GRADE 36.

ALL POSTS, RAILING, SPLICES, ANCHOR DEVICES AND PLATES SHALL BE CLEANED AND PAINTED AFTER SHOP FABRICATION IN ACCORDANCE WITH SECTION 506 OF THE STANDARD SPECIFICATIONS. COLOR OF PAINT SHALL BE BLACK.

BASE PLATE TO BE SECURED TO THE RAILING SUPPORT SLAB USING 4 - 5/8" ANCHOR RODS. ANCHOR RODS SHALL BE IN ACCORDANCE TO SECTION 1006.09 OF THE IDOT STANDARD SPECIFICATIONS. ANCHOR RODS SHALL BE SET ACCORDING TO SECTION 509.06 OF THE IDOT STANDARD SPECIFICATIONS. EMBEDMENT SHALL BE ACCORDING TO THE ADHESIVE MANUFACTURER'S SPECIFICATIONS.

FOR LOCATION OF PEDESTRIAN RAILING AND RAILING SUPPORT SLAB, SEE SHEET 12.

THE PEDESTRIAN RAILING SHALL CONSIST OF 3 HORIZONTAL RAIL PANEL SYSTEM AS SHOWN ON PLANS. THE TOP RAIL OF THE PANEL SHALL HAVE 0.125" DIAMETER GALVANIZED INTERNAL RETAINING ROD TO ADJOIN THE PICKET TO THE RAIL. NO PICKETS SHALL EXTEND ABOVE THE TOP RAIL AND THE POSTS SHALL BE CAPPED. THE RAILS, POSTS AND PICKETS SHALL ALL HAVE THE FOUR COATINGS DESCRIBED AS FOLLOWS:

THE BOTTOM COATING SHALL BE HOT-DIP GALVANIZED STEEL. A ZINC-PHOSPHATE LAYER SHALL BE PLACED ATOP THE GALVANIZATION WITH AN EPOXY POWDER COAT ON TOP OF THE ZINC-PHOSPHATE. THE TOP LAYER SHALL CONSIST OF THE POLYESTER COLOR COAT. ALL RAILINGS AND HARDWARE COMPONENTS SHALL BE BLACK. COLOR SAMPLES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE PEDESTRIAN RAILING AND COMPONENTS SHALL HAVE A MINIMUM 10 YEAR WARRANTY.

THE TOP CHANNEL RAIL SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS:

EFFECTIVE WALL THICKNESS	0.160	IN
SECTION MODULUS (VERTICAL)	0.1624	CU IN
SECTION MODULUS (HORIZONTAL)	0.367	CU IN
RAIL WEIGHT	2.55	LBS./FT.
YIELD STRENGTH (FY)	50,000	PSI
ULTIMATE VERTICAL LOAD (8' SPAN)	506	LBS.
ULTIMATE HORIZONTAL LOAD (8' SPAN)	765	LBS.

PEDESTRIAN RAILING DETAIL

STEEL MATERIAL FOR PEDESTRIAN RAILING FRAMEWORK SHALL CONFORM TO REQUIREMENTS OF ASTM A924/A924M WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI. THE STEEL SHALL BE HOT-DIP GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A653/A653M WITH A MINIMUM ZINC COATING WEIGHT OF 0.90 OZ/FT, COATING DESIGNATION G-90.

THE HARDWARE REQUIRED TO COMPLETE THE CONSTRUCTION OF THE PEDESTRIAN RAILING SHALL MEET THE REQUIREMENTS OF THE RAILING PANEL MANUFACTURER AND AS APPROVED BY THE ENGINEER.

COMPLETED PANELS SHALL BE CAPABLE OF SUPPORTING A 600 LB. LOAD (APPLIED AT MIDSPAN) WITHOUT PERMANENT DEFORMATION. THE PANELS, POSTS AND ASSEMBLY SHALL BE CAPABLE OF MEETING THE REQUIREMENTS FOR HANDRAILS IN THE 2003 IBC.

CONSTRUCTION, PRIOR TO ORDERING MATERIAL OR BEGINNING FABRICATION, THE CONTRACTOR SHALL SUBMIT TWO SETS OF SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. THE PEDESTRIAN RAILING SHALL BE HANDLED AND INSTALLED ACCORDING TO THE MANUFACTURER RECOMMENDATIONS AND AS SHOWN ON THE PLANS.

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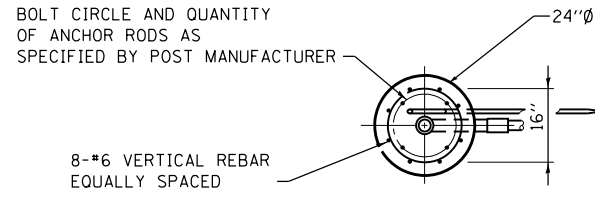
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CITY OF TROY

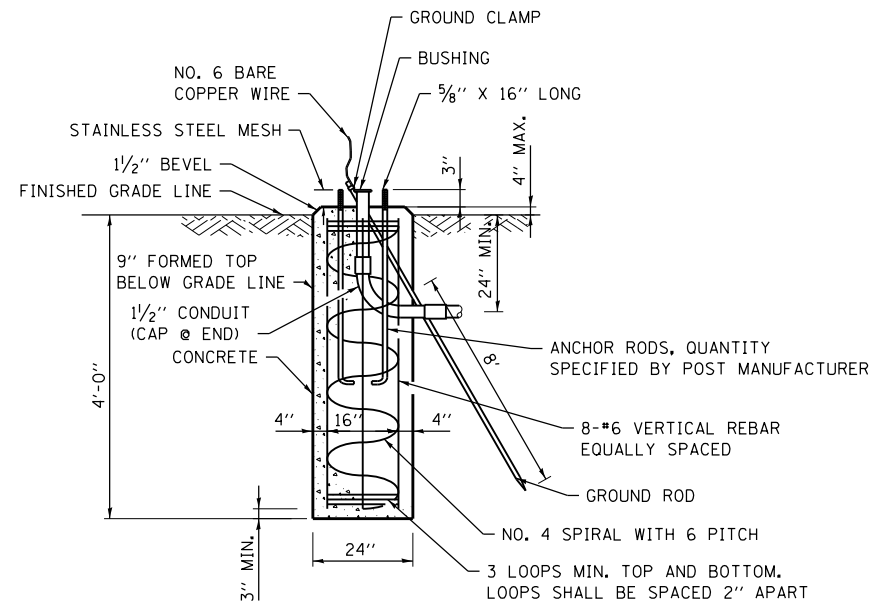
CONSTRUCTION DETAILS

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. N/A TO STA. N/A

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	24
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				



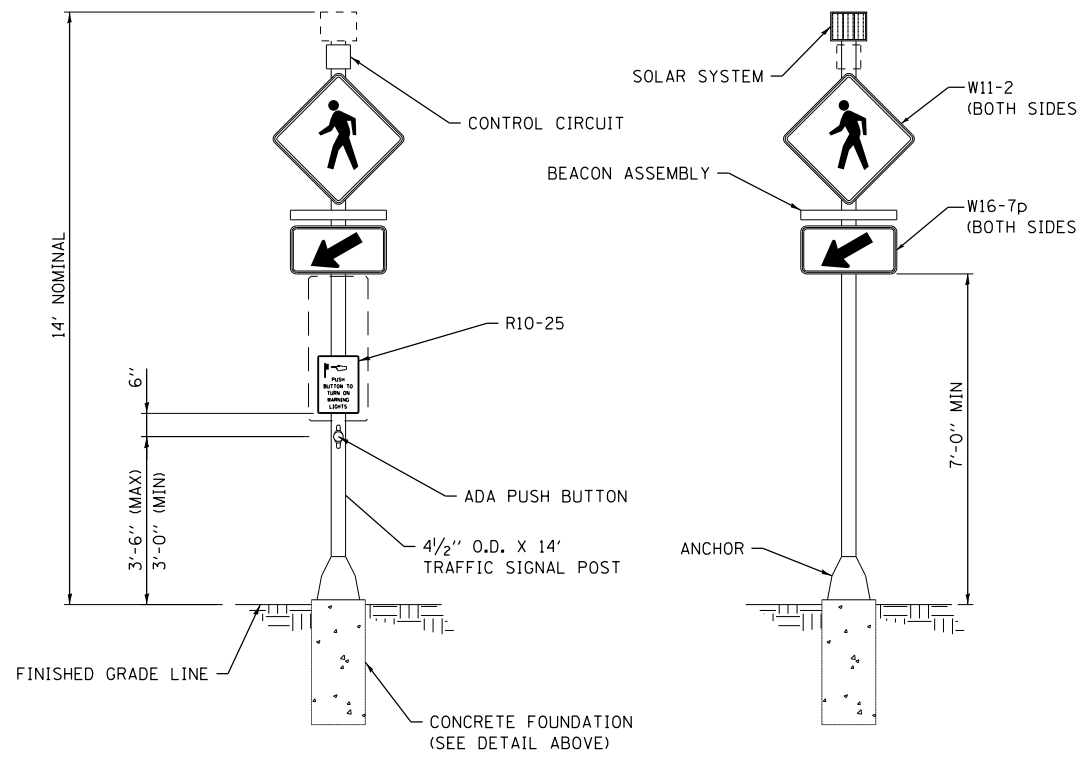
TOP VIEW
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CONCRETE FOUNDATION
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NOTES:

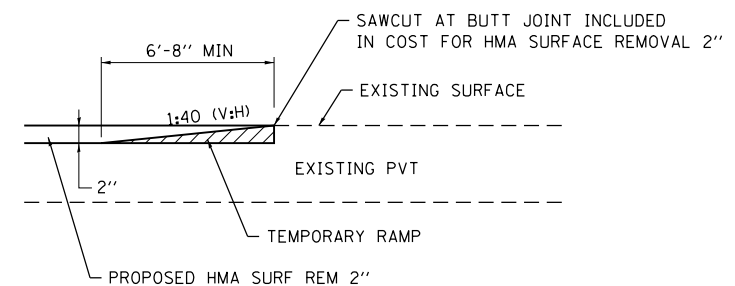
1. SEE SPECIAL PROVISION FOR SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE).
2. CONCRETE FOUNDATIONS, SIGN PANELS, CONTROL CIRCUITS, ETC SHALL BE INCLUDED IN THE COST OF THE ENTIRE ASSEMBLY.
3. POST AND FOUNDATION SHALL BE ACCORDING TO ARTICLE 1077.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
4. FOUNDATIONS SHALL BE PLACED ADJACENT TO THE EDGE OF SIDEWALK AT THE STATIONS INDICATED ON THE PLANS.



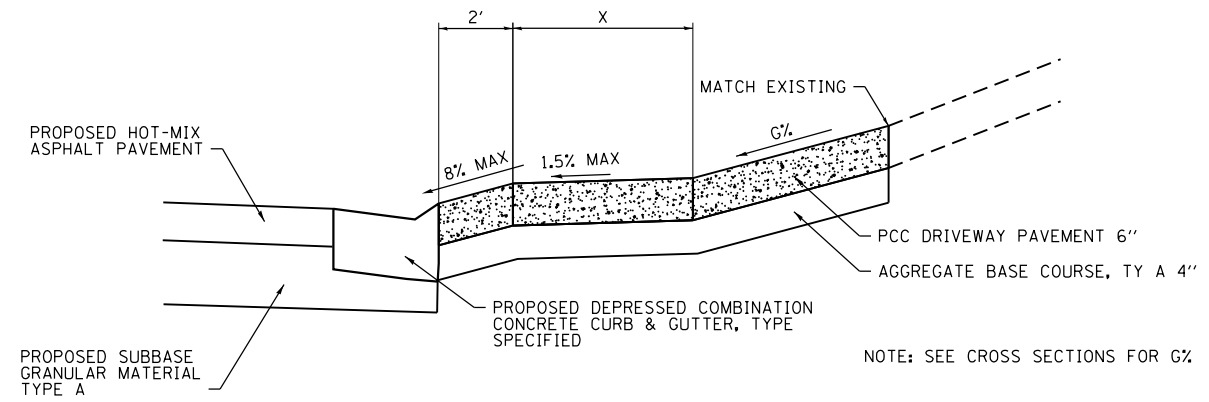
FRONT VIEW
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BACK VIEW
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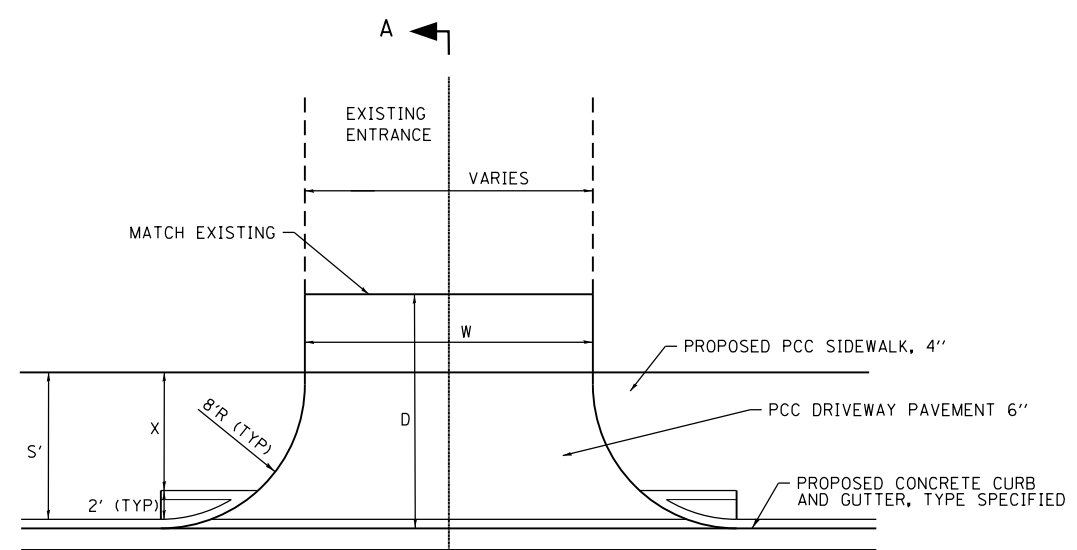
SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)
(NOT TO SCALE)



TEMPORARY RAMP DETAIL
(NOT TO SCALE)



SECTION A-A
(NOT TO SCALE)



PLAN VIEW
(NOT TO SCALE)

WEST CLAY STREET TYPICAL ENTRANCE DETAIL
(NOT TO SCALE)

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PLOT DATE =	3/22/2019

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CHECKED -	REVISED -
DATE -	REVISED -

CITY OF TROY

CONSTRUCTION DETAILS

SCALE: 1" = 20'	SHEET 3	OF 3	SHEETS	STA. N/A	TO STA. N/A
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M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	25
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

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

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

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ILLINOIS DESIGN FIRM LICENSE NO.: 184,001115

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PLLOT DATE	= 1/30/2019

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DATE	-

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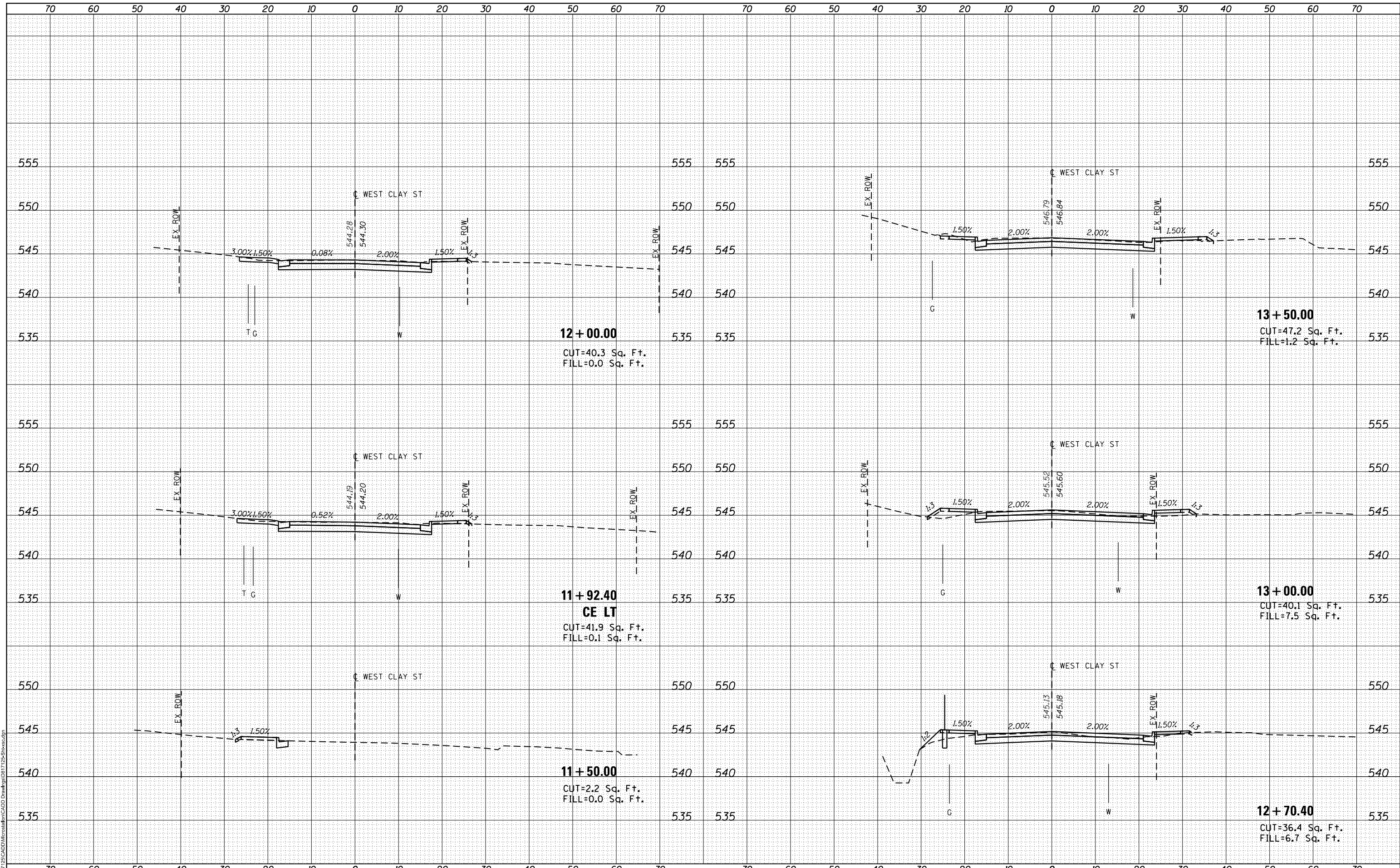
CITY OF TROY

**WEST CLAY STREET
CROSS SECTIONS**

SCALE: SHEET 1 OF 4 SHEETS STA. 11+50.00 TO STA. 13+50.00

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	26
CONTRACT NO. 97691				

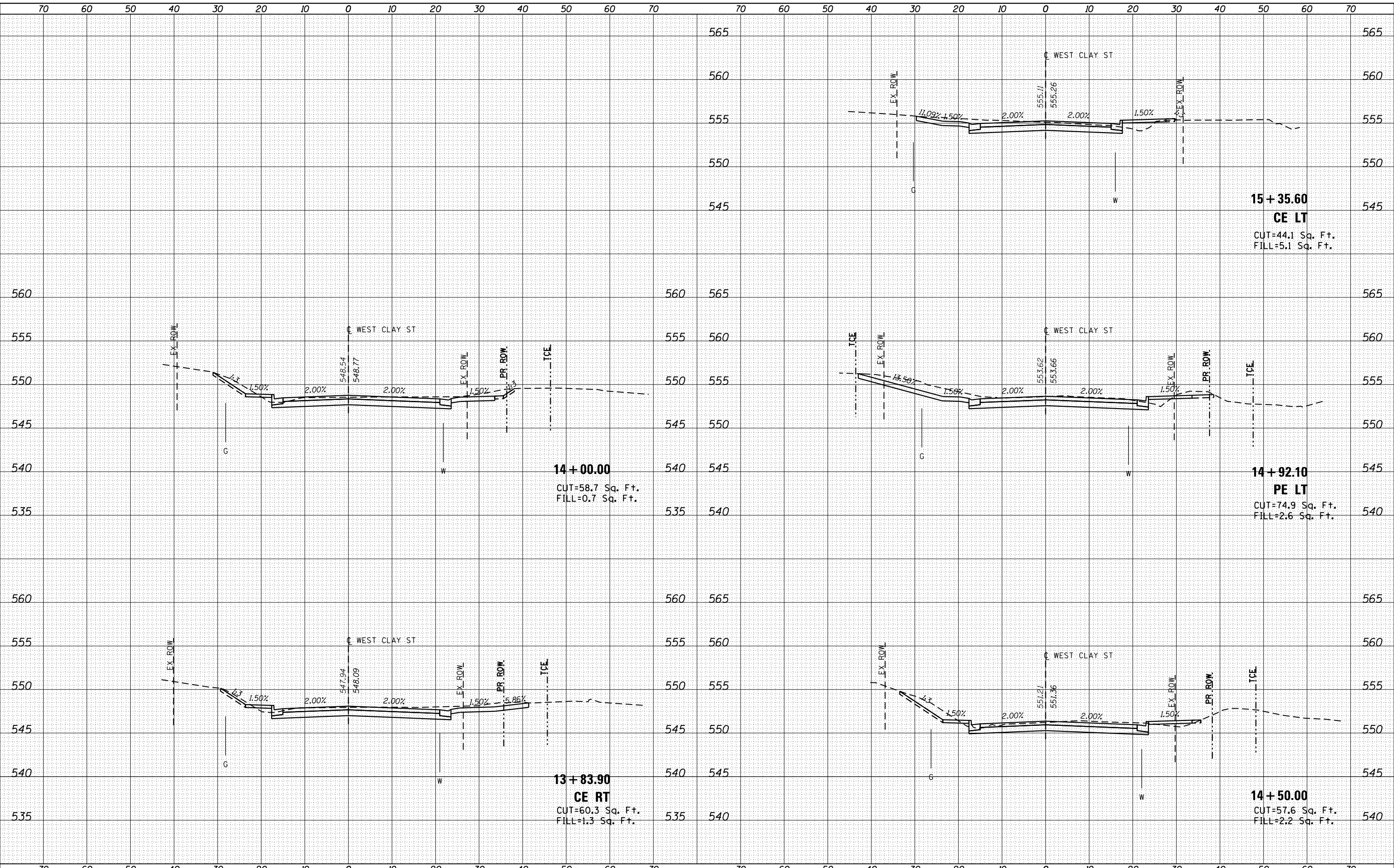
ILLINOIS FED. AID PROJECT



DATE	
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CITY OF TROY

**WEST CLAY STREET
 CROSS SECTIONS**

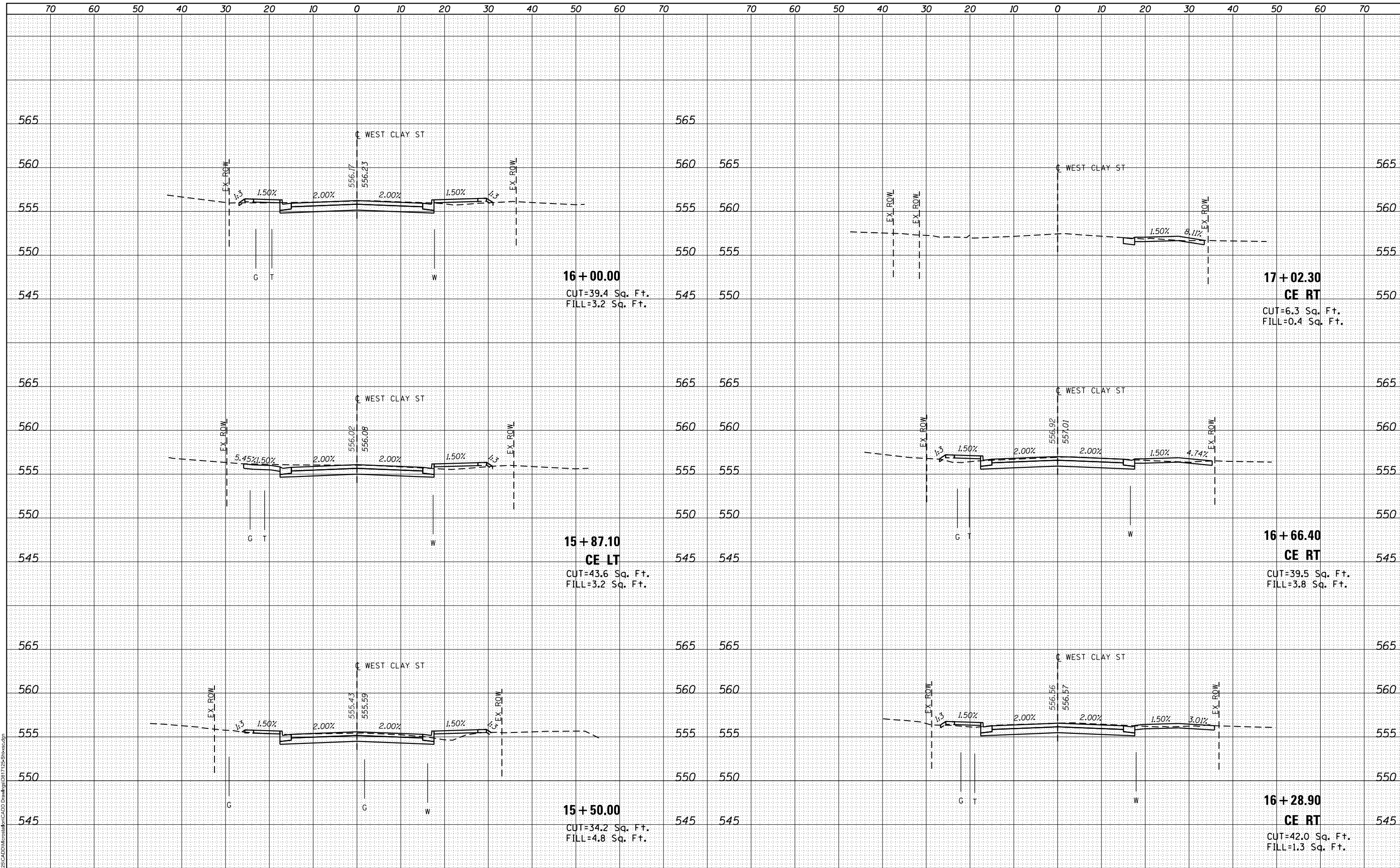
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M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	27
CONTRACT NO. 97691				

ILLINOIS FED. AID PROJECT

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



16+00.00
 CUT=39.4 Sq. Ft.
 FILL=3.2 Sq. Ft.

17+02.30
CE RT
 CUT=6.3 Sq. Ft.
 FILL=0.4 Sq. Ft.

15+87.10
CE LT
 CUT=43.6 Sq. Ft.
 FILL=3.2 Sq. Ft.

16+66.40
CE RT
 CUT=39.5 Sq. Ft.
 FILL=3.8 Sq. Ft.

15+50.00
 CUT=34.2 Sq. Ft.
 FILL=4.8 Sq. Ft.

16+28.90
CE RT
 CUT=42.0 Sq. Ft.
 FILL=1.3 Sq. Ft.

MODEL: W City
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CITY OF TROY

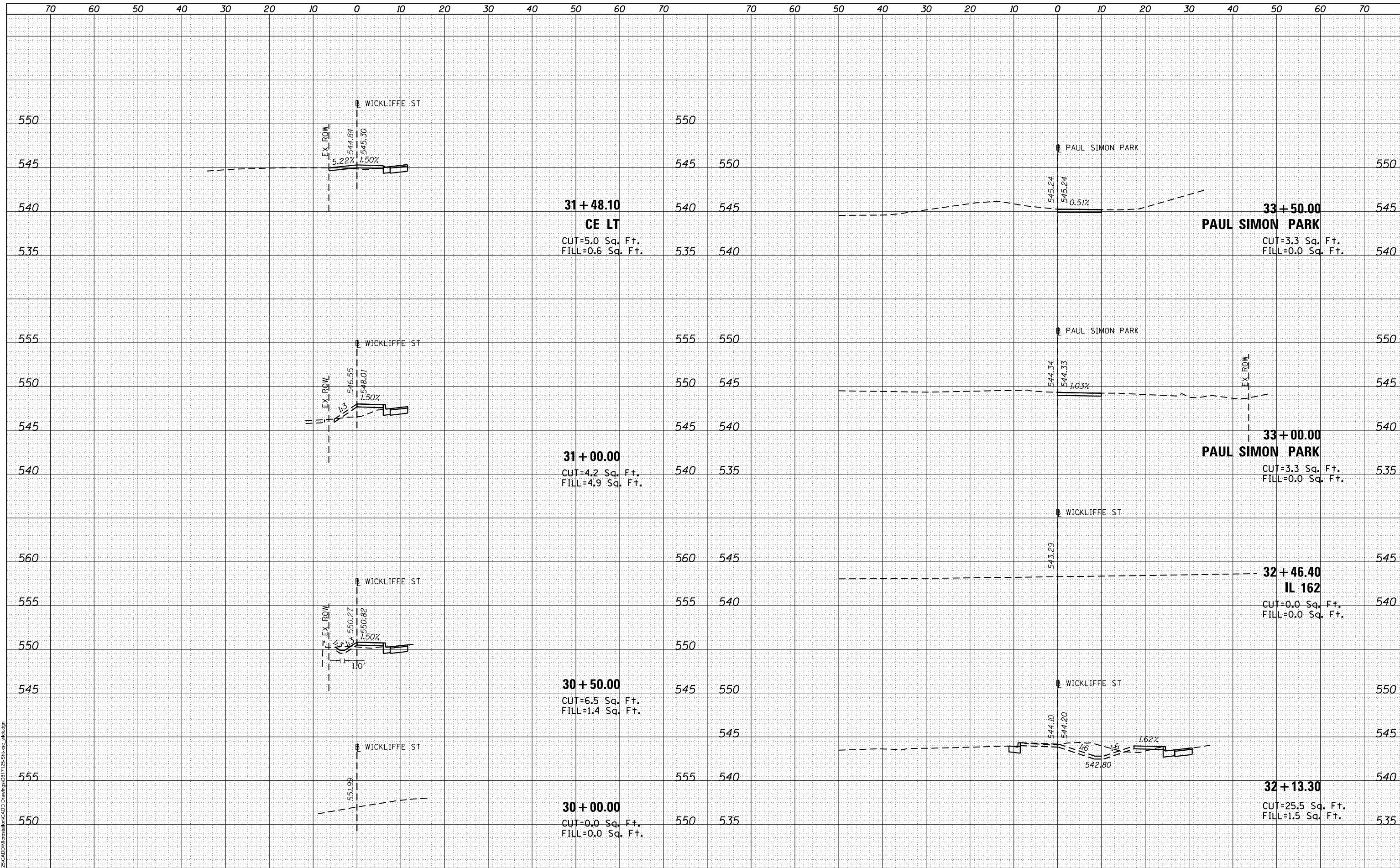
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 CROSS SECTIONS**

SCALE: SHEET 3 OF 4 SHEETS STA. 15+50.00 TO STA. 17+02.30

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	28
CONTRACT NO. 97691				
ILLINOIS FED. AID PROJECT				

DATE	
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DATE	
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SURVEYED	
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NO.	



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OATES ASSOCIATES
 ILLINOIS DESIGN FIRM LICENSE NO.: 184,001115

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CHECKED -	
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DATE -	1/30/2019

DESIGNED -	
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DATE -	

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REVIS	
REVIS	
REVIS	

CITY OF TROY

**WICKLIFFE STREET / PAUL SIMON PARK
CROSS SECTIONS**

SCALE: SHEET 4 OF 4 SHEETS STA. 30+00.00 TO STA. 33+50.00

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1070	15-00031-00-PV	MADISON	29	29
				CONTRACT NO. 97691
				ILLINOIS FED. AID PROJECT