WKE

FEB 11, 2020

PROJECT ID: 3835-00-73/74

WITH: N/A

COUNTY: WALWORTH

2020

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 198

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CLAY STREET

DANN STREET TO RICE STREET

LOCAL STREET

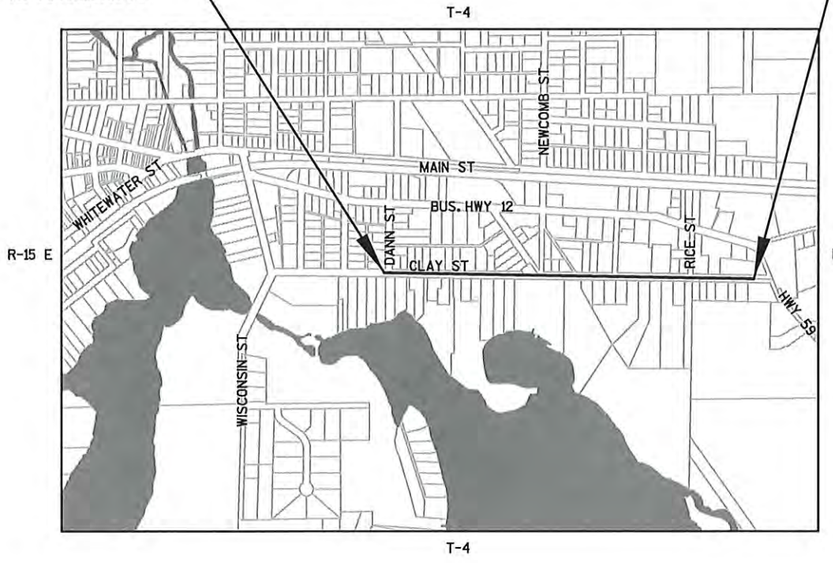
WALWORTH COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3835-00-73	WISC 2020047	1
3835-00-74		

STATE PROJECT NUMBER	STATE PROJECT NUMBER
3835-00-73	3835-00-74
ROADWAY	LOCAL UTILITIES

BEGIN PROJECT
STA. 10+49.85
Y: 423406.0232
X: 714325.1883

END PROJECT
STA. 41+26.14



ACCEPTED FOR THE CITY OF WHITEWATER

DATE: 2/23/2019

BRAD MARQUARDT
DEPARTMENT OF PUBLIC WORKS DIRECTOR

ORIGINAL PLANS PREPARED BY

STRAND ASSOCIATES®

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	STRAND ASSOCIATES, INC.
Designer	STRAND ASSOCIATES, INC.
Project Manager	KATHLEEN KRAMER P.E.
Regional Examiner	
Regional Supervisor	JEFF BOHEN
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 7/31/19 K Kramer
(Signature)

E

DESIGN DESIGNATION

A.A.D.T. 2020	=	420
A.A.D.T. 2040	=	460
D.H.V.	=	64
D.D.	=	59/41
T.	=	1.3%
DESIGN SPEED	=	25 MPH
ESALS	=	7,300

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE (PL + 58.1)
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT

SCALE 0 0.25 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.583 MI.

-"COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WALWORTH COUNTY."

2

GENERAL NOTES

NO TREES OR SHRUBS ARE TO REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

ANY CONFLICTING SIGN SHALL BE REMOVED.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT, SAWCUT WHERE SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

STORM SEWER PIPE ELEVATIONS, LENGTH, AND LOCATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

3.5-INCH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES SHALL BE CONSTRUCTED WITH ONE 1.5-INCH UPPER LAYER AND ONE 2-INCH LOWER LAYER.

ALL GEOTECHNICAL DATA SHOWN ON THE DRAWINGS IS FOR INFORMATION ONLY AND SHALL NOT BE USED FOR THE PURPOSES OF BIDDING.

ASPHALTIC PAVING TABLES

CLAY STREET		
	THICKNESS	MIX TYPE
UPPER LAYER	1.75"	4 LT 58-28 S
LOWER LAYER	2.25"	3 LT 58-28 S

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERECTON DETAILS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
UTILITY PLAN
PERMANENT SIGNING AND PAVEMENT MARKING
ALIGNMENT AND CONTROL POINT DATA SHEET
DETOUR SHEETS

UTILITIES

AT&T WISCONSIN
ATTENTION: TOM CROWLEY
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
PH: (262) 896-7427
CELL: (262) 501-3499
E-MAIL: tc1657@att.com

CHARTER COMMUNICATIONS
ATTENTION: DAVID MOLDENHAUER
1548 PLAINFIELD AVE.
JANESVILLE, WI 53545
PH: (608) 373-7538
CELL: (608) 206-0491
E-MAIL: david.moldenhauer@charter.com

WE ENERGIES (GAS)
ATTENTION: SCOTT HOLSTEIN
700 S. KANE STREET
BURLINGTON, WI 53105
PH: (262) 763-1084
E-MAIL: scott.holstein@we-energies.com

WE ENERGIES (ELECTRIC)
ATTENTION: BRYAN STOEHR
PH: (414) 944-5516
CELL: (414) 416-6059
FAX: (414) 944-5552
E-MAIL: bryan.stoehr@we-energies.com

CITY OF WHITEWATER - SEWER
ATTENTION: TIM REEL
109 CTH HWY U
WHITEWATER, WI 53190
PH: (262) 473-5920
EMAIL: treel@whitewater-wi.gov

CITY OF WHITEWATER - WATER
ATTENTION: RICK LIEN
308 N. FREEMONT
WHITEWATER, WI 53190
PH: (262) 473-0543
rlien@whitewater-wi.gov

CITY OF WHITEWATER - STREETS
ATTENTION: KELLY FREEMAN
312 WEST WHITEWATER STREET
WHITEWATER, WI 53190
PH: (262) 473-0560
kfreeman@whitewater-wi.gov

OTHER CONTACTS

DESIGN CONTACT

ZACH SIMPSON, P.E.
STRAND ASSOCIATES, INC.
910 WEST WINGRA DRIVE
MADISON, WI 53715
(608) 251-4843
E-MAIL: zach.simpson@strand.com

CITY OF WHITEWATER

BRAD MARQUARDT, P.E.
312 W. WHITEWATER STREET
PO BOX 178
WHITEWATER, WI 53190
(262) 473-0139
E-MAIL: bmarquardt@whitewater-wi.gov

DNR LIAISON

CRAIG WEBSTER
SOUTHEAST REGION
141 NW BARSTOW STREET
WAUKESHA, WI 53188
(262) 574-2141
E-MAIL: craig.webster@wisconsin.gov

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

** DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

2

2

N

CITY OF WHITEWATER

DANN STREET

CLAY STREET

ESTERLY STREET

NEWCOMB STREET

BISHOP STREET

TAFT STREET

RICE STREET

15+00

20+00

25+00

30+00

35+00

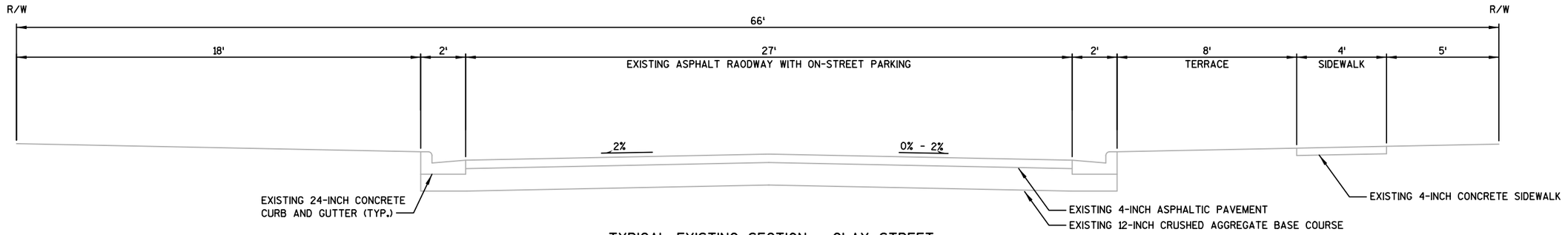
40+00

BEGIN PROJECT
STA. 10+49.85

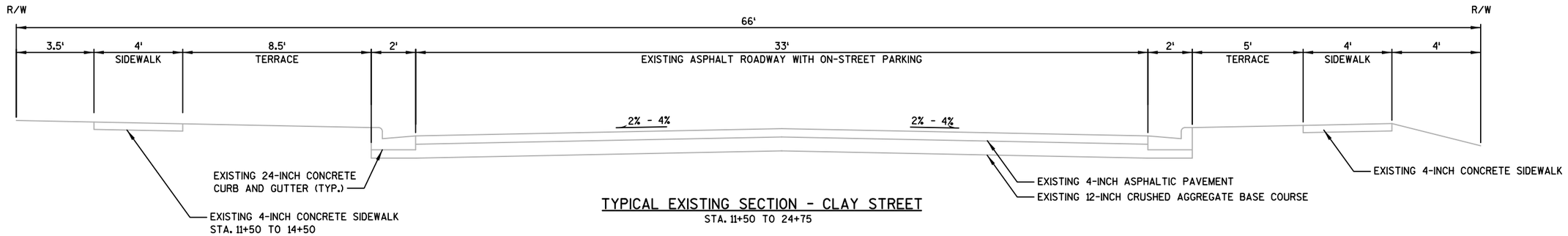
END PROJECT
STA. 41+26.14

END CONSTRUCTION
STA. 42+80.38

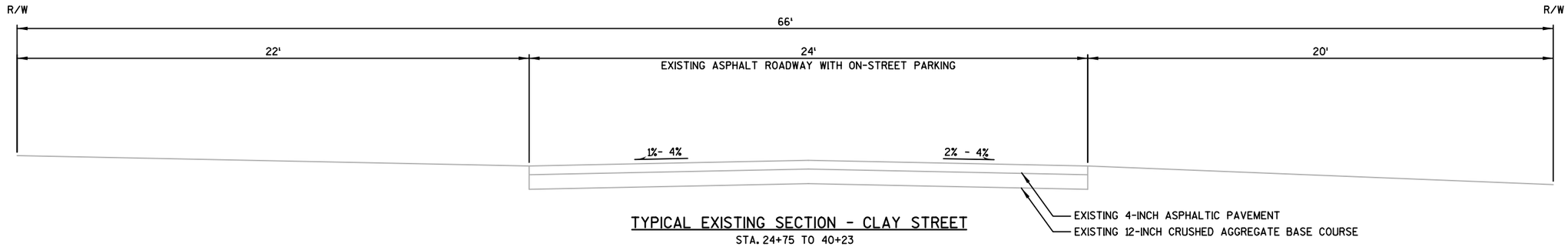
PROJECT NO: 3835-00-73/74	HWY: CLAY STREET	COUNTY: WALWORTH	PROJECT OVERVIEW	SHEET 3	E



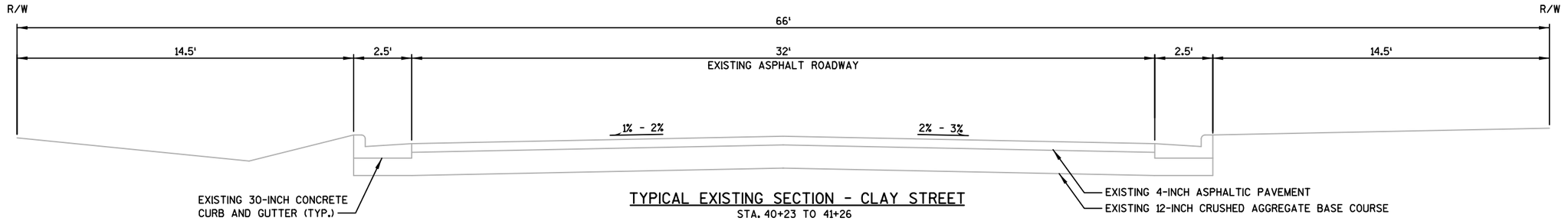
TYPICAL EXISTING SECTION - CLAY STREET
STA. 10+50 TO 11+50



TYPICAL EXISTING SECTION - CLAY STREET
STA. 11+50 TO 24+75

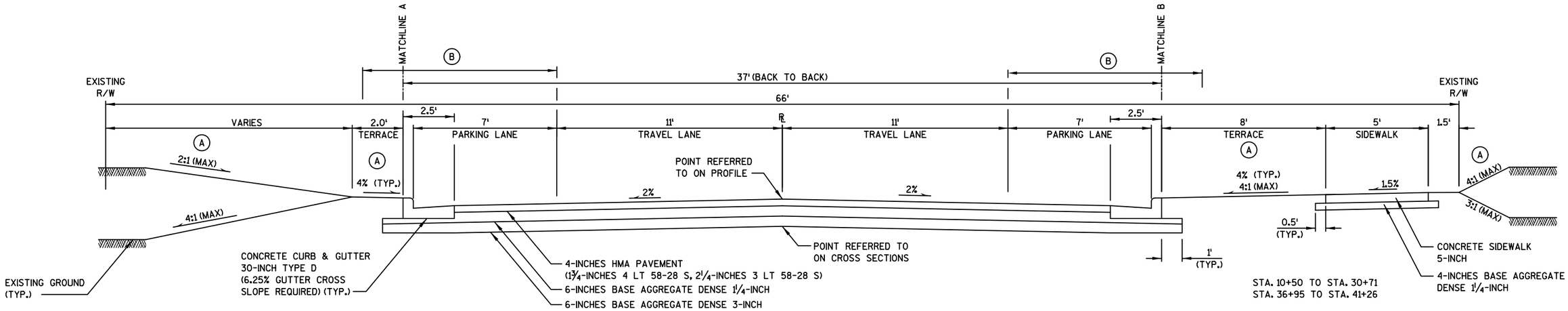


TYPICAL EXISTING SECTION - CLAY STREET
STA. 24+75 TO 40+23



TYPICAL EXISTING SECTION - CLAY STREET
STA. 40+23 TO 41+26

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	EXISTING TYPICAL SECTIONS	SHEET 4	E

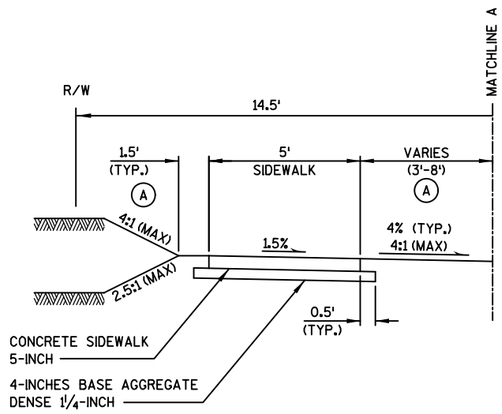


TYPICAL FINISHED SECTION - CLAY STREET

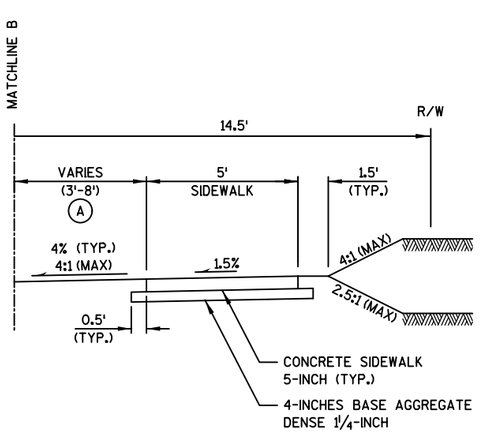
STA. 10+50 TO 41+26

(A) TOPSOIL; SEEDING MIXTURE NO. 40; FERTILIZER TYPE B; EROSION MAT URBAN CLASS I TYPE A

(B) 9' LATERAL CLEARANCE MIN. (2' BEYOND FACE OF CURB)

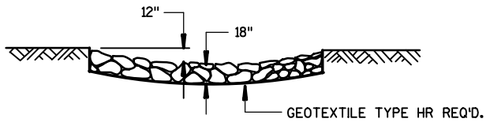


STA. 37+00 TO STA. 41+66

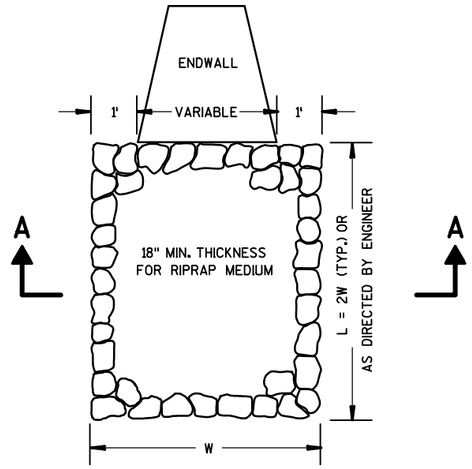


STA. 30+71 TO STA. 36+95

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	TYPICAL SECTIONS	SHEET 5	E



SECTION A-A

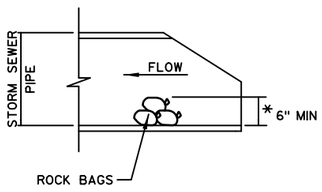


RIPRAP MEDIUM TREATMENT AT CULVERTS

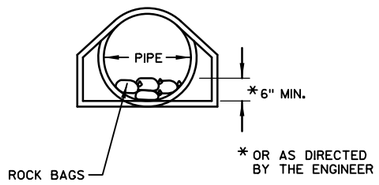
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 6.6 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.8 ACRES



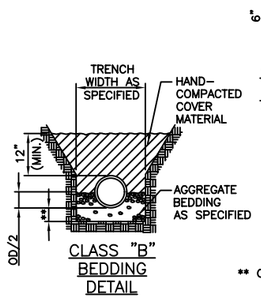
SIDE VIEW
INSTALL ON INLET END



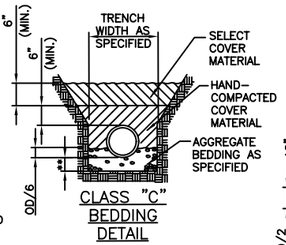
END VIEW

ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NO. OF BAGS
12"	1
18"	2
24"	3
20"x28"	5
30"	5
29"x45"	10
48"	10
54"	10
60"	13
72"	16

CULVERT PIPE CHECKS DETAIL

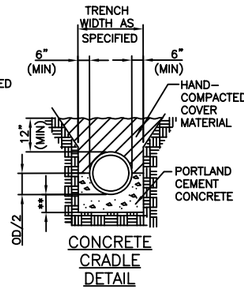


CLASS "B" BEDDING DETAIL

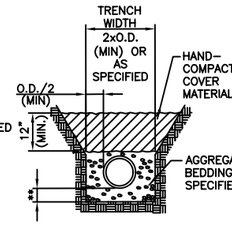


CLASS "C" BEDDING DETAIL

** OUTSIDE DIAMETER/4, 4" MINIMUM.



CONCRETE CRADLE DETAIL



THERMOPLASTIC PIPE BEDDING DETAIL

NOTES:

1. DETAILS RELATIVE TO ITEMS SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

2. VARIATIONS IN DIMENSIONS AND DESIGN MAY BE PERMISSIBLE, PROVIDING EQUIVALENT CAPACITY AND STRENGTH ARE ATTAINED.

3. ALL CONCRETE FILLETS SHALL BE HAND TROWELED WITH A 1/4"/FT. SLOPE.

4. INSIDE DIMENSIONS FOR MANHOLES: USE MINIMUM 4' DIAMETER FOR SEWER LESS THAN 18" IN DIAMETER; USE MINIMUM 5' DIAMETER FOR SEWER 18" THRU 24" IN DIAMETER; USE MINIMUM 6' DIAMETER OR MINIMUM 6' SQUARE FOR SEWER OVER 24" IN DIAMETER.

5. BEDDING CLASSES "B" AND "C" SHALL MEET OR EXCEED ASTM C12 REQUIREMENTS.

6. DROP TYPE ENTRANCE TO STANDARD MANHOLE WILL BE PAID FOR SEPARATELY IF SO LISTED IN THE BID.

7. SEE DRAWINGS FOR DROP TYPE ENTRANCES FOR SANITARY SEWERS LARGER THAN 15".

8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF REGULATORY BODIES OF THE STATE AND APPLICABLE MUNICIPAL ORDINANCES.

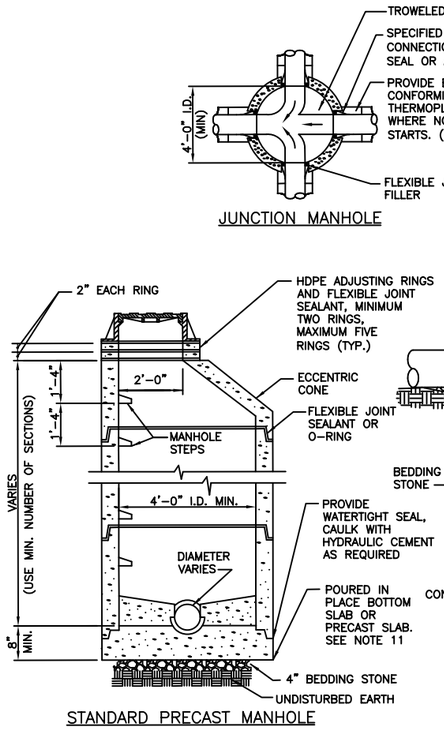
9. ALL NEW CONSTRUCTION SHALL BE PLACED ON UNDISTURBED EARTH OR STONE BEDDING.

10. FLAT SLAB TOPS SHALL BE DESIGNED FOR H–20 TRUCK LOADING AND SHALL MEET REQUIREMENTS OF ASTM C–478.

11. BASE SLABS SHALL BE REINFORCED AS FOLLOWS: REINFORCING SHALL BE PLACED IN EACH DIRECTION AT 2" CLEAR FROM TOP SURFACE OF SLAB, REINFORCING SHALL BE GRADE 60. USE OF CAST–IN–PLACE SLAB SHALL NOT RELIEVE CONTRACTOR OF REQUIREMENTS TO PROVIDE WATERTIGHT JOINTS.

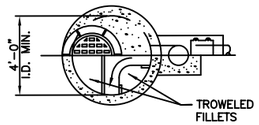
INSIDE DIA.	DEPTH	REINF.
4'	≤ 30'	#3@8"
5'	≤ 20'	#3@8"
5'	20'–30'	#4@10"
6'	≤ 20'	#4@10"
6'	20'–25'	#4@8"
6'	25'–30'	#4@6"

12. FLAT SLABS SHALL BE PROVIDED IN SHALLOW DEPTH SITUATIONS IN LIEU OF ECCENTRIC CONES.

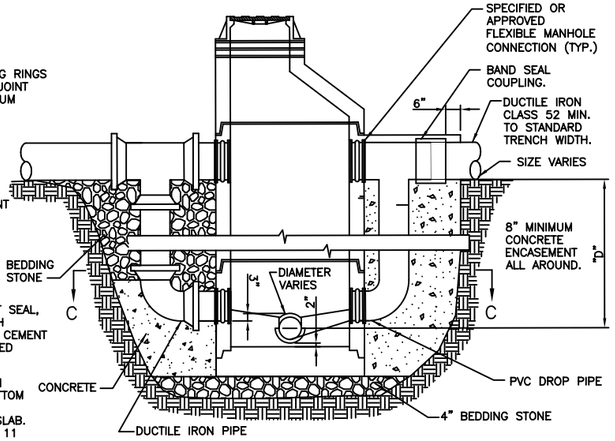


STANDARD PRECAST MANHOLE

JUNCTION MANHOLE



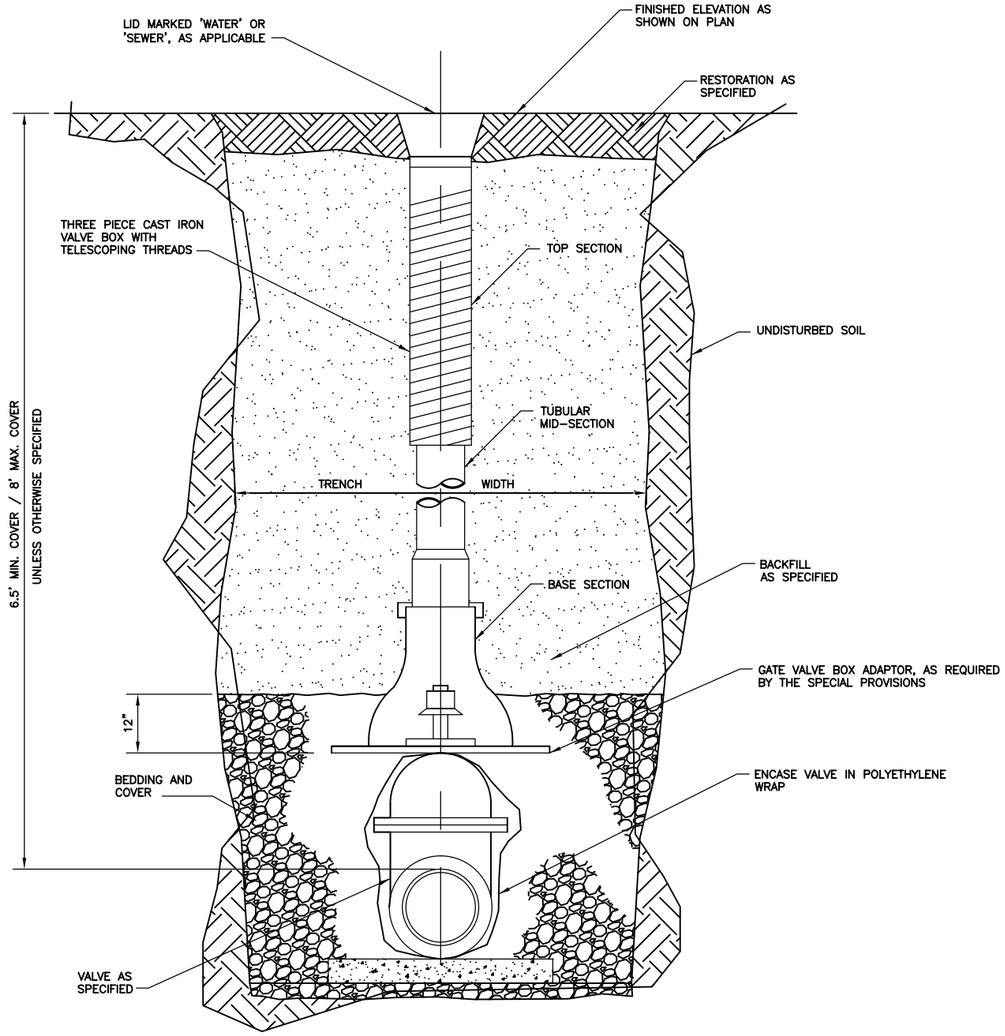
HALF SECTION C–C



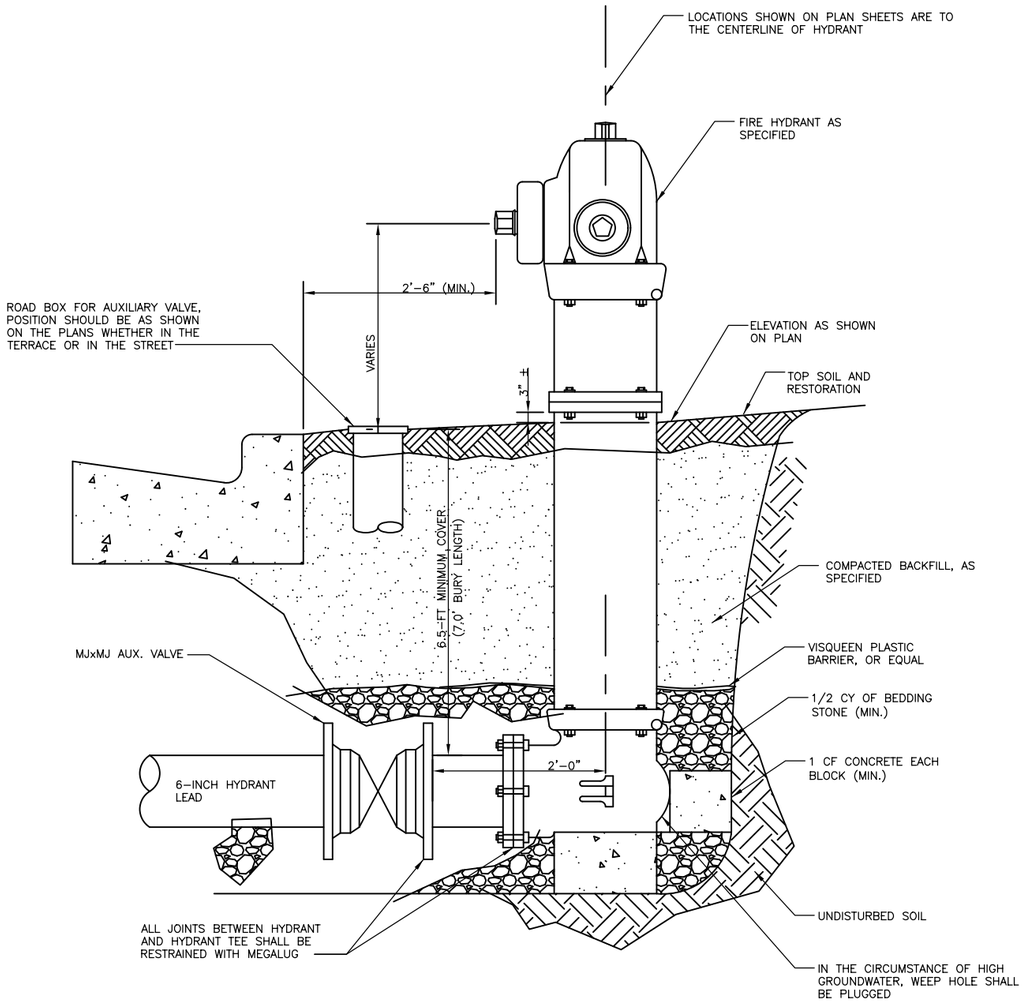
DROP TYPE ENTRANCE OPTIONS TO STANDARD MANHOLE

DROP TYPE ENTRANCE TO BE USED WHEREVER DIMENSION "D" EXCEEDS 2'–0".

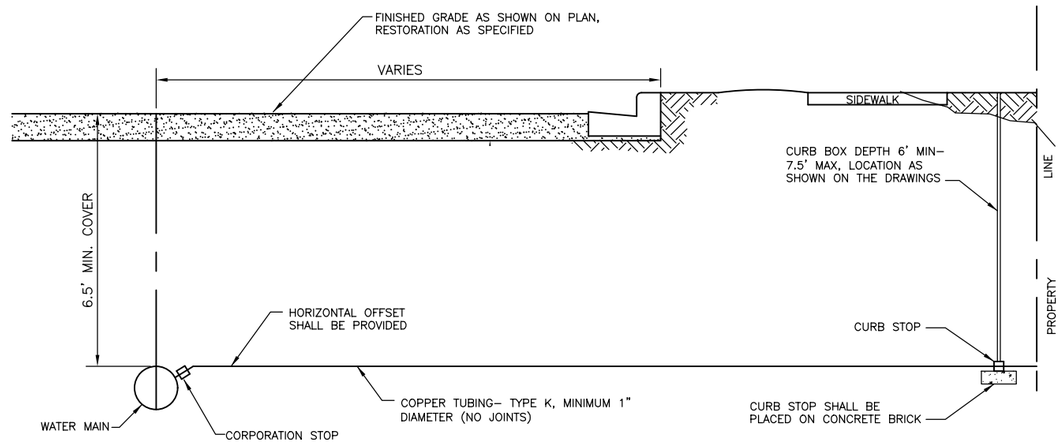
SANITARY SEWER APPURTENANCES



STANDARD BURIED GATE VALVE BOX SETTING



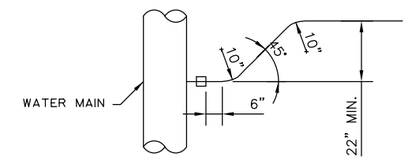
HYDRANT INSTALLATION



SECTION VIEW

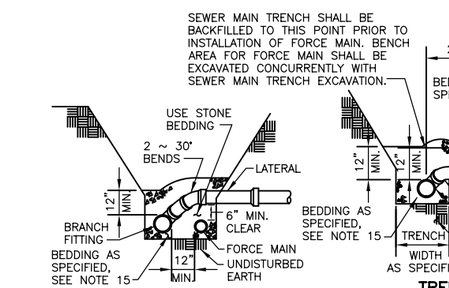
*TAPPING SADDLES SHALL BE PROVIDED FOR ALL CORPORATION STOPS WITH 1½" AND LARGER.

NOTES
1. ALL FITTINGS SHALL BE FLARED OR COMPRESSION JOINT TYPE, AND CONFORM TO AWWA REQUIREMENTS
2. CORPORATION STOP TO BE TAPPED INTO DUCTILE IRON WATER MAIN, UNLESS OTHERWISE SPECIFIED.
3. ALL TAPS TO BE MADE UNDER PRESSURE WHEN APPLICABLE.
4. NO TAPS TO BE CLOSER THAN 18" APART ALONG MAIN
5. ALL COPPER TUBE BENDS TO BE SMOOTH RADIUS, 10" MIN

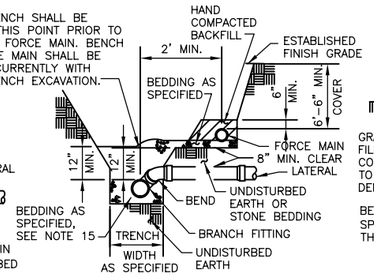


HORIZONTAL OFFSET PLAN VIEW

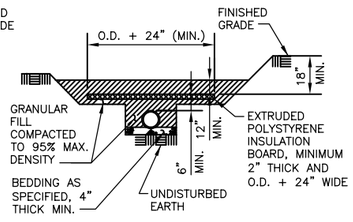
RESIDENTIAL WATER SERVICE LATERAL



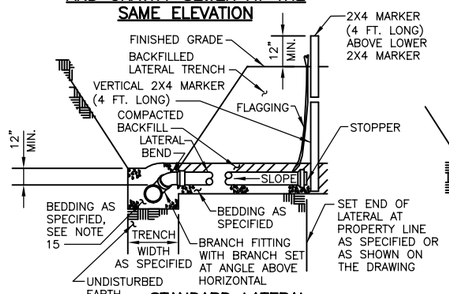
TRENCH DETAIL – FORCE MAIN AND GRAVITY SEWER AT THE SAME ELEVATION



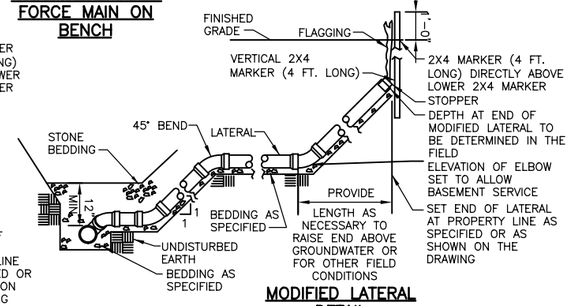
TRENCH DETAIL – FORCE MAIN ON BENCH



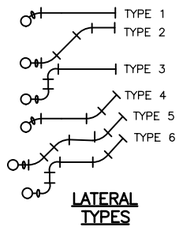
SEWER INSULATION DETAIL



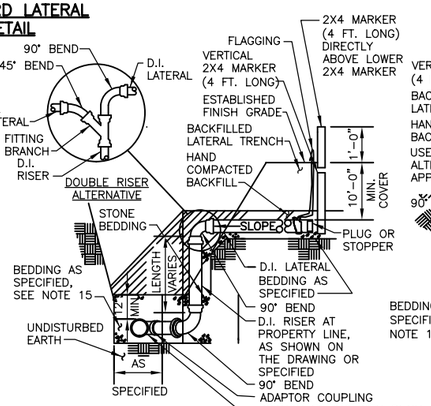
STANDARD LATERAL DETAIL



MODIFIED LATERAL DETAIL

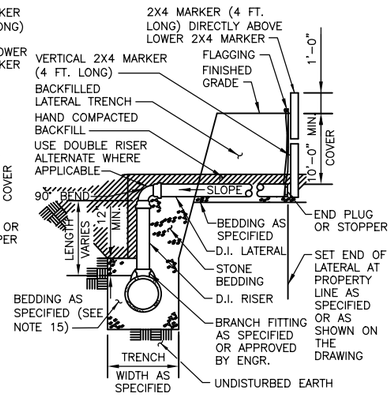


LATERAL TYPES



SEWERS SMALLER THAN 18"

STANDARD RISER DETAILS



SEWERS 18" AND LARGER

NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF REGULATORY BODIES OF THE STATE AND APPLICABLE MUNICIPAL ORDINANCES.

2. DETAILS RELATIVE TO ITEMS SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIAL PROVISIONS.

3. VARIATIONS IN DIMENSIONS AND DESIGN MAY BE PERMISSABLE, PROVIDING EQUIVALENT CAPACITY AND STRENGTH ARE ATTAINED.

4. ALL NEW CONSTRUCTION SHALL BE PLACED ON UNDISTURBED EARTH OR STONE BEDDING.

5. BEDDING CLASSES "B" AND "C" SHALL MEET OR EXCEED ASTM C12 REQUIREMENTS.

6. ALL LATERALS SHALL BE LAID AT A STANDARD SLOPE OF 1/4-INCH PER FOOT UNLESS OTHERWISE NOTED ON THE DRAWINGS, OR SPECIFIED. IN NO CASE SHALL LATERAL SLOPE BE LESS THAN 1/8-INCH PER FOOT. MAXIMUM LATERAL SLOPE SHALL BE 1 TO 1.

7. END PLUGS OR STOPPERS FOR THE ENDS OF LATERALS AND BRANCH FITTINGS SHALL BE PROVIDED.

8. 2x4'S SHALL BE PLACED AT ALL LATERALS ENDS SO THAT ONE PROTRUDES 12 INCHES ABOVE FINISHED GRADE AND ONE IS LOCATED IN THE GROUND AT THE END OF THE LATERAL. 2x4'S SHALL BE PAINTED FLOURESCENT ORANGE. 2x4'S SHALL EACH BE AT LEAST 4 FT. LONG.

9. BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 1 1/2-INCH CLEAR MINIMUM.

10. THE TOP OF ANY MANHOLE STRUCTURE SHALL BE LEFT SUFFICIENTLY LOW TO PERMIT PROPER ADJUSTMENT OF COVER TO GRADE.

11. INSTALL DOUBLE RISERS WHERE SHOWN ON THE DRAWINGS OR SPECIFIED.

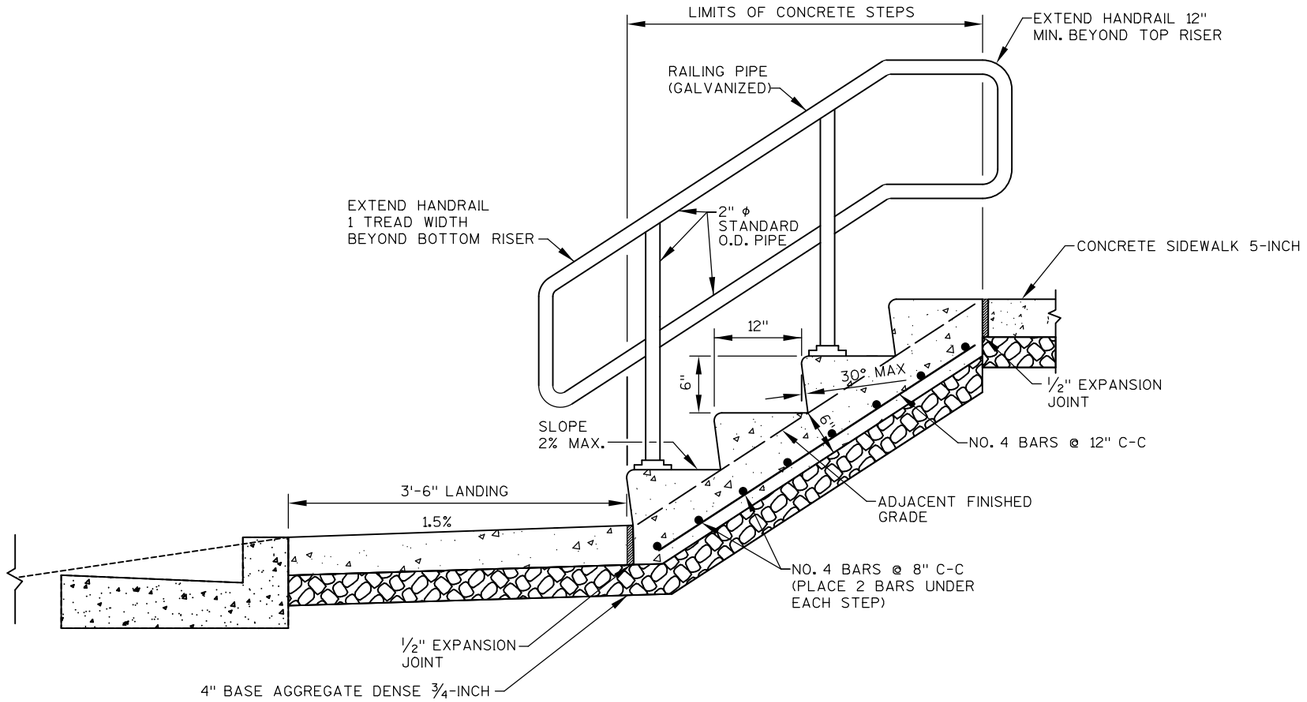
12. STANDARD LATERALS AND MODIFIED LATERALS SHALL BE CONSTRUCTED OF MATERIAL AS SPECIFIED.

13. RISERS AND LATERALS FROM RISERS SHALL BE CONSTRUCTED OF DUCTILE IRON. FITTINGS FOR RISERS AND LATERALS FROM RISERS SHALL BE GRAY IRON OR DUCTILE IRON.

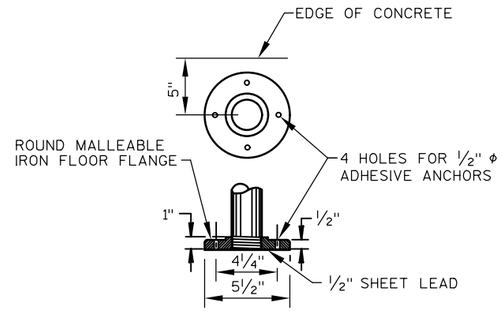
14. FLAGGING SHALL BE 4-INCH WIDE STANDARD ORANGE VINYL TAPE. TIE FLAGGING AROUND END OF ALL LATERALS AND EXTEND UNBROKEN TO FINISHED GRADE DIRECTLY ABOVE ENDS OF LATERALS.

15. STONE BEDDING SHALL BE USED AROUND AND TO ONE FT. ABOVE TOP OF ALL SEWER MAINS AT LATERAL CONNECTIONS. PROVIDE BEDDING AS SPECIFIED ELSEWHERE.

SANITARY SEWER LATERALS



CONCRETE STEPS DETAIL



FLANGE DETAIL

NOTE:

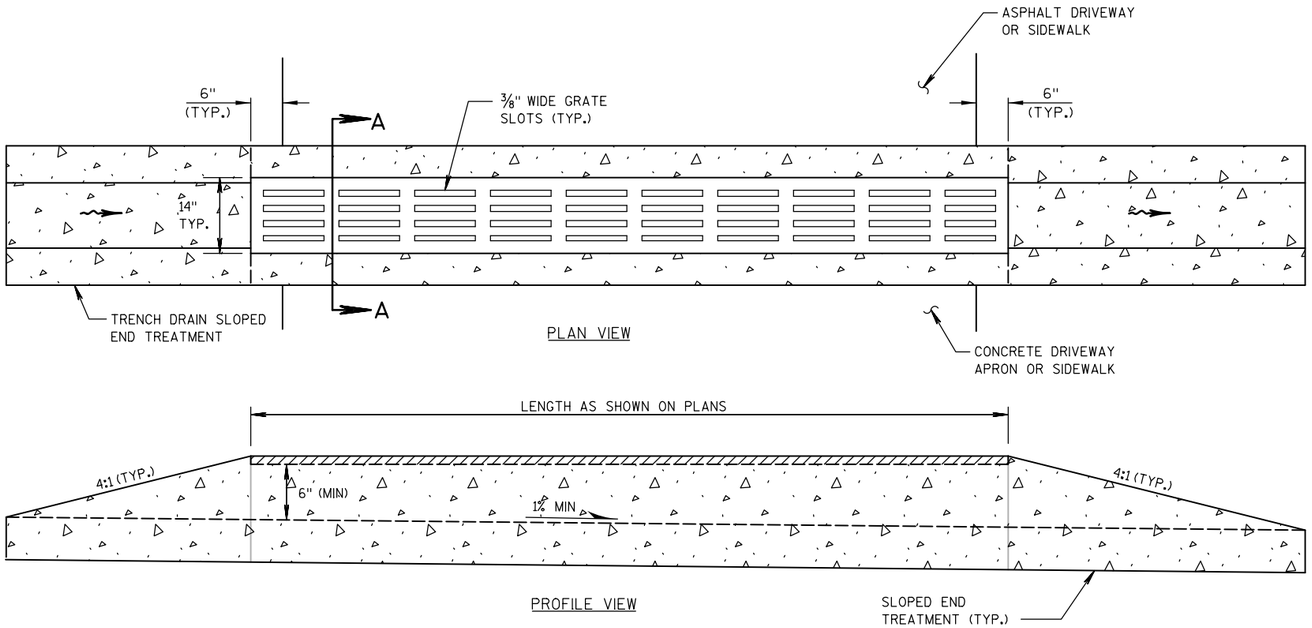
MINIMUM STEP WIDTH SHALL BE 48" UNLESS OTHERWISE NOTED ON THE PLAN DETAIL SHEETS.

GALVANIZED PIPE RAILING TO BE PLACED ON ONE SIDE OF STEPS ONLY.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2-INCH CLEAR.

STEPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WISCONSIN BUILDING CODE.

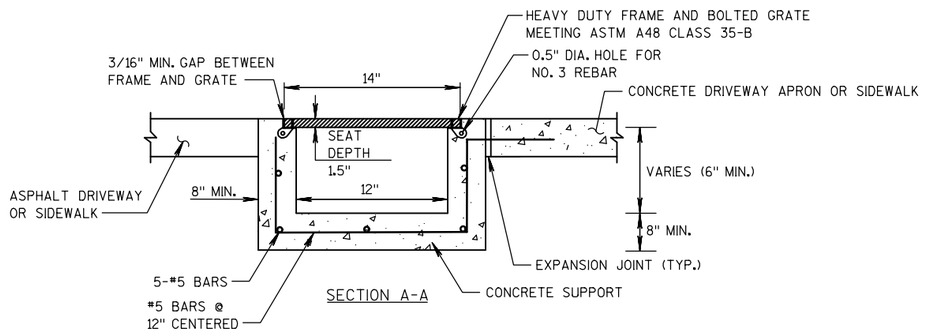
RAILING SHALL BE 34-INCHES MINIMUM AND 38-INCHES MAXIMUM VERTICALLY ABOVE STEP NOSINGS. RAILING SHALL BE A CONSISTENT HEIGHT ABOVE STEP NOSINGS.



PLAN VIEW

PROFILE VIEW

NOTE:
ALL DIMENSIONS SHALL BE VERIFIED WITH SUPPLIER PRIOR TO INSTALLATION OF CONCRETE SUPPORT.

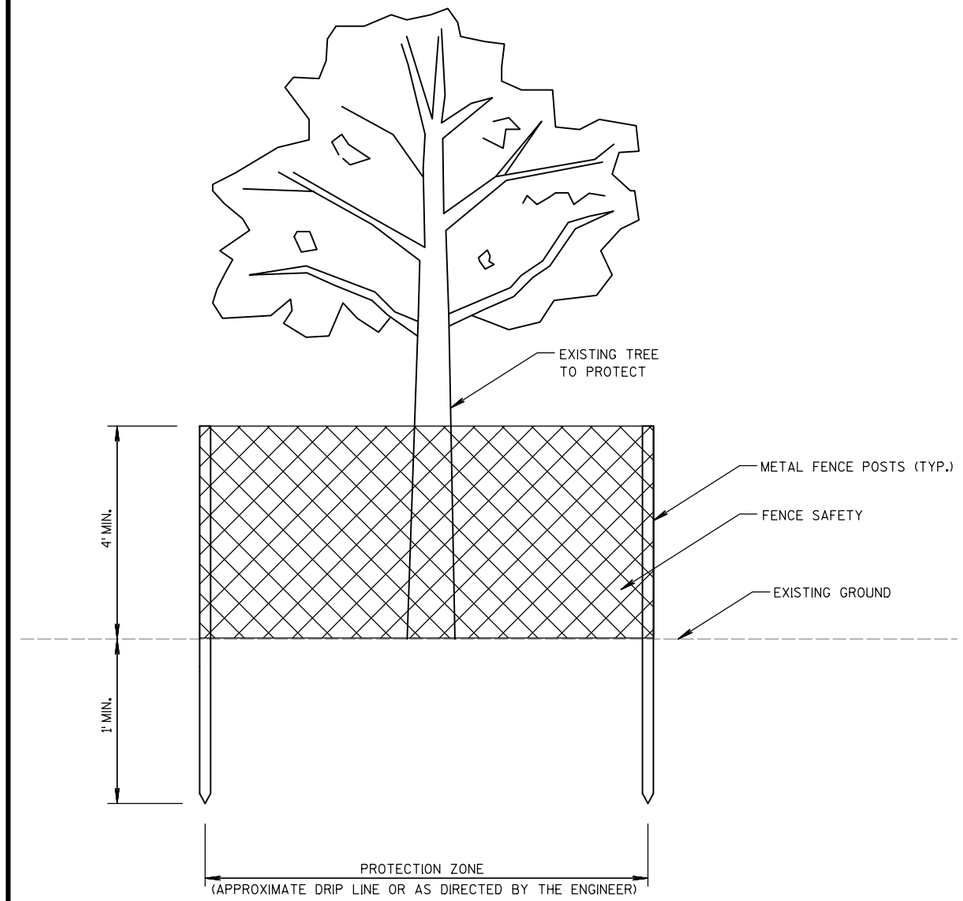


SECTION A-A

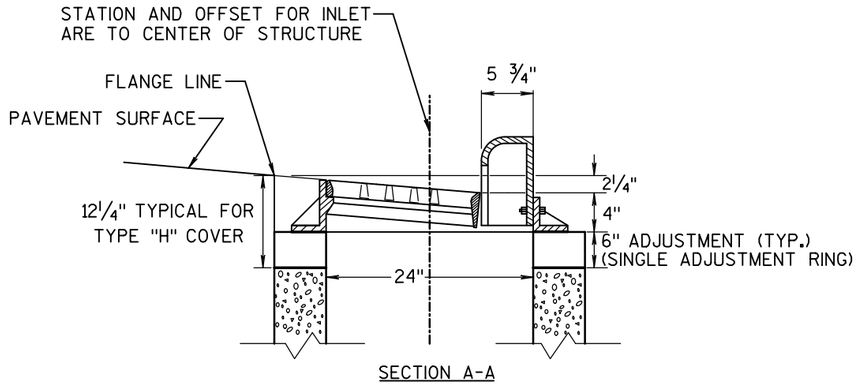
TRENCH DRAIN AND GRATE DETAIL

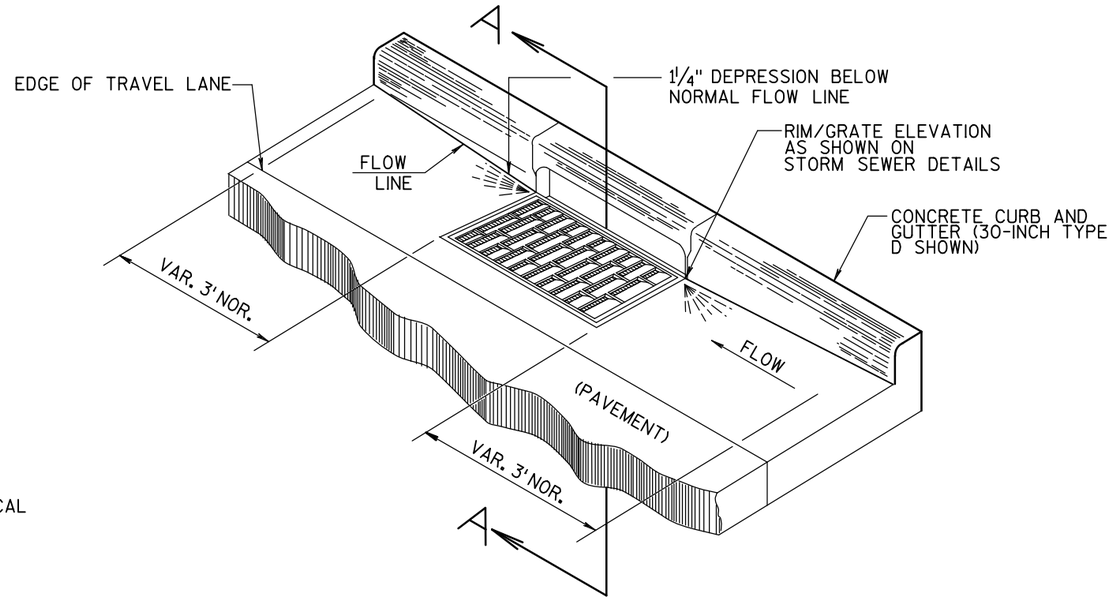
NO SCALE

STA. 35+33 LT
STA. 36+37 LT
STA. 36+87 RT

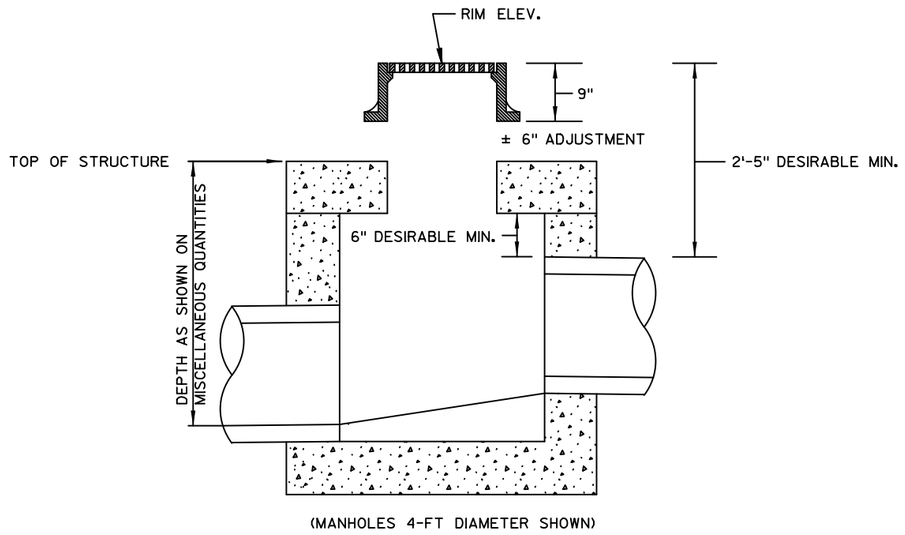


TREE PROTECTION DETAIL

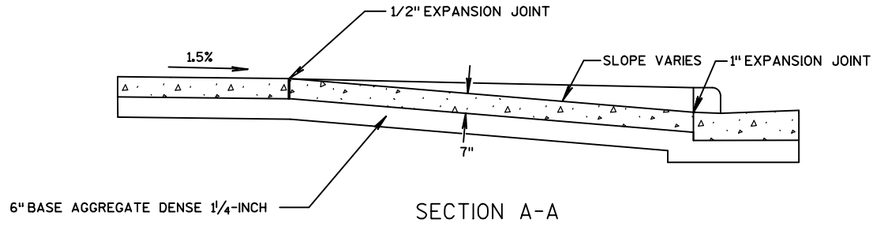




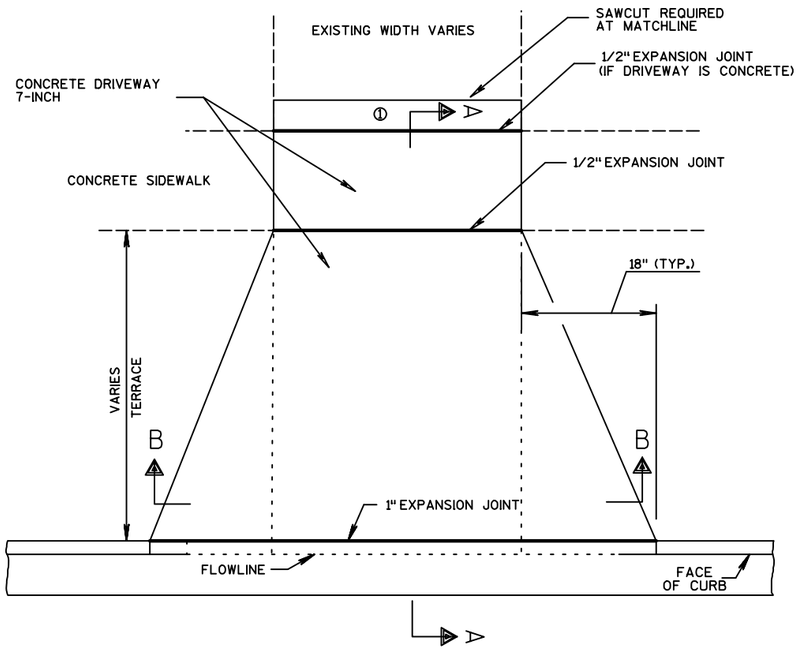
CURB AND GUTTER AT INLET DETAIL

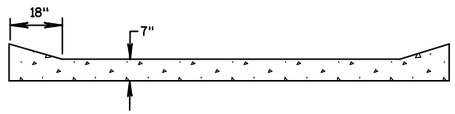


DETAIL FOR COMPUTING MANHOLE ELEVATIONS



SECTION A-A



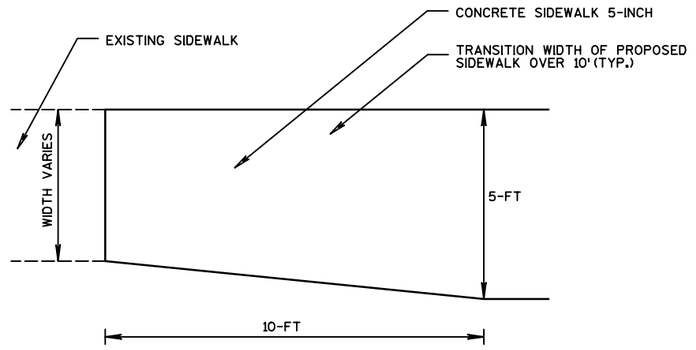


SECTION B-B

① FOR ASPHALT DRIVEWAYS PLACE 3-INCHES ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES OVER 10-INCHES BASE AGGREGATE DENSE 1¼-INCH.

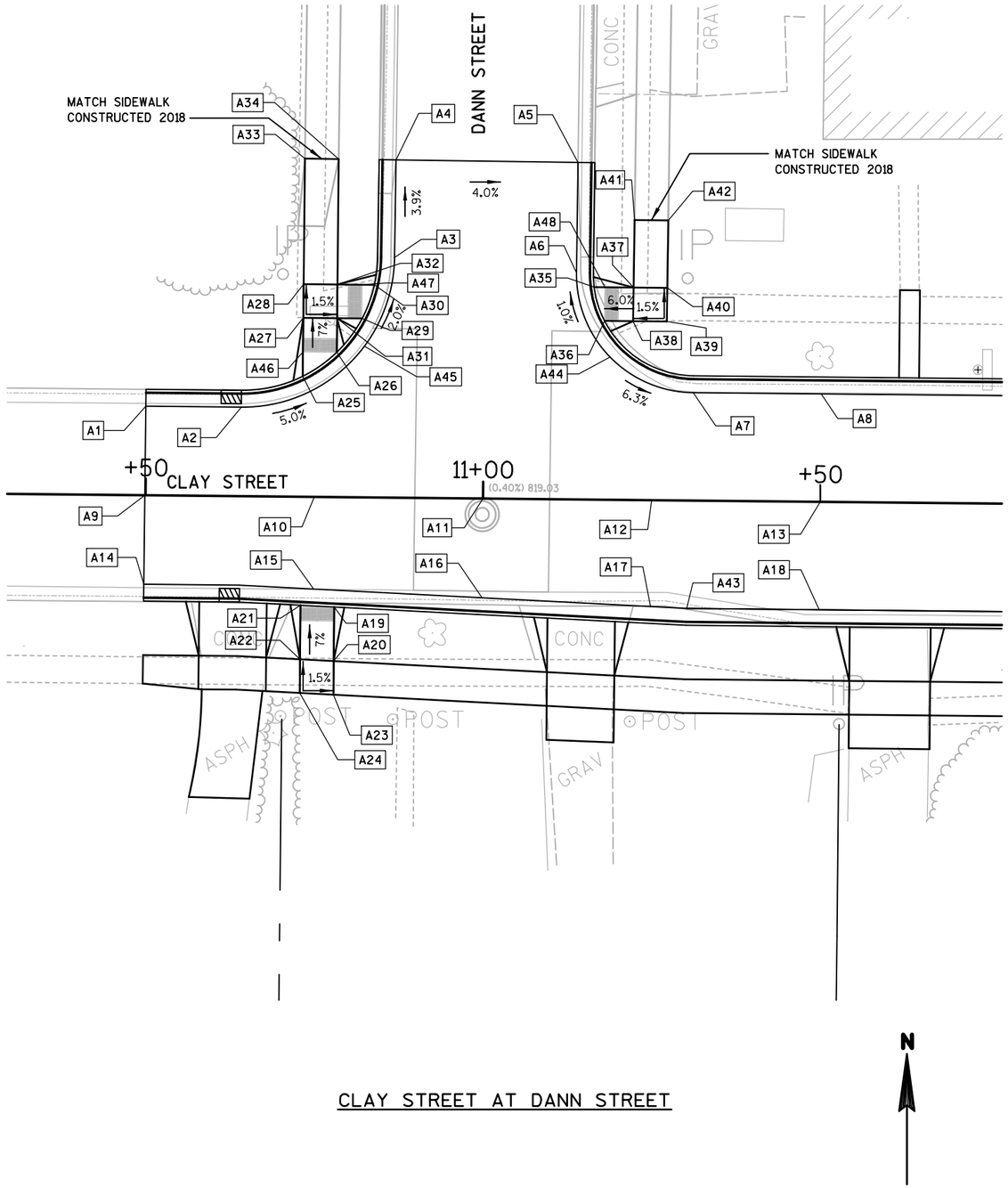
FOR CONCRETE DRIVEWAYS PLACE CONCRETE DRIVEWAY 7-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1¼-INCH.

CONCRETE DRIVE APRON DETAIL



CONCRETE SIDEWALK TRANSITION DETAIL

2



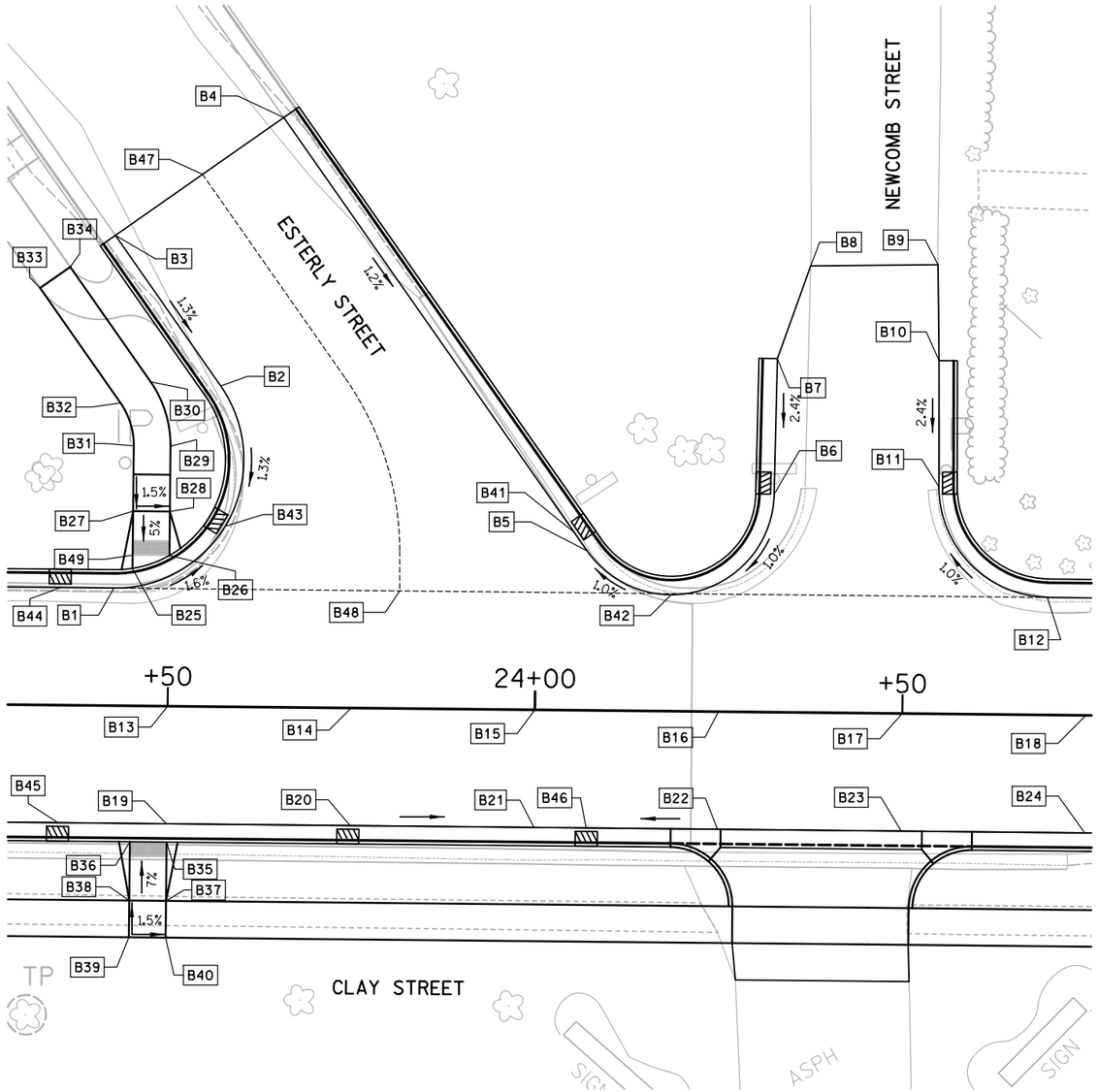
CLAY STREET AT DANN STREET

N

INTERSECTION DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
A1	10+49.88	13.18 'LT	MATCH	423,419.21	714,325.35	FLAG; EOP; MATCH EXISTING
A2	10+64.03	13.19 'LT	835.13	423,419.07	714,339.50	FLAG; EOP; EOR
A3	10+86.53	35.59 'LT	833.79	423,441.25	714,362.22	FLAG; EOP; EOR
A4	10+86.60	50.06 'LT	MATCH	423,455.72	714,362.42	FLAG; EOP; MATCH EXISTING
A5	11+13.60	49.94 'LT	MATCH	423,455.33	714,389.42	FLAG; EOP; MATCH EXISTING
A6	11+13.53	33.58 'LT	832.30	423,438.97	714,389.19	FLAG; EOP; EOR
A7	11+31.03	16.00 'LT	831.56	423,421.22	714,406.51	FLAG; EOP; EOR
A8	11+50.00	16.00 'LT	830.80	423,421.03	714,425.49	FLAG; EOP
A9	10+49.85	0.00 'RT	MATCH	423,406.02	714,325.19	CL; MATCH EXISTING
A10	10+75.00	0.00 'RT	834.79	423,405.78	714,350.33	CL
A11	11+00.00	0.00 'RT	833.41	423,405.53	714,375.33	CL
A12	11+25.00	0.00 'RT	832.15	423,405.28	714,400.33	CL
A13	11+50.00	0.00 'RT	831.12	423,405.04	714,425.33	CL
A14	10+49.83	13.20 'RT	MATCH	423,392.82	714,325.03	FLAG; EOP; MATCH EXISTING
A15	10+75.00	13.67 'RT	834.72	423,392.11	714,350.20	FLAG; EOP
A16	11+00.00	14.72 'RT	833.27	423,390.81	714,375.19	FLAG; EOP
A17	11+25.00	15.77 'RT	831.92	423,389.51	714,400.18	FLAG; EOP
A18	11+50.00	16.00 'RT	830.80	423,389.04	714,425.17	FLAG; EOP
A19	10+78.10	16.30 'RT	834.50	423,389.45	714,353.27	BOC; RAMP OPENING
A20	10+78.10	24.31 'RT	835.06	423,381.44	714,353.19	FOW; TOP OF RAMP
A21	10+73.10	16.09 'RT	834.79	423,389.71	714,348.27	BOC; RAMP OPENING
A22	10+73.10	24.09 'RT	835.13	423,381.70	714,348.19	FOW; TOP OF RAMP
A23	10+78.10	29.31 'RT	835.13	423,376.44	714,353.14	BOW; LEVEL LANDING
A24	10+73.10	29.10 'RT	835.20	423,376.70	714,348.14	BOW; LEVEL LANDING
A25	10+73.10	19.42 'LT	834.61	423,423.63	714,348.61	BOC; RAMP OPENING
A26	10+78.10	21.47 'LT	834.34	423,427.21	714,353.64	BOC; RAMP OPENING
A27	10+73.10	26.51 'LT	834.30	423,432.30	714,348.69	BOW; TOP OF RAMP
A28	10+73.10	31.51 'LT	834.23	423,437.30	714,348.74	BOW; LEVEL LANDING
A29	10+81.80	26.51 'LT	833.95	423,432.21	714,357.40	BOC; RAMP OPENING
A30	10+83.59	31.51 'LT	833.85	423,437.19	714,359.24	BOC; RAMP OPENING
A31	10+78.10	26.51 'LT	834.23	423,432.25	714,353.69	FOW; TOP OF RAMP
A32	10+78.10	31.51 'LT	834.16	423,437.25	714,353.74	FOW; TOP OF RAMP
A33	10+73.10	50.12 'LT	MATCH	423,455.91	714,348.92	BOW; MATCH EXISTING
A34	10+78.10	50.10 'LT	MATCH	423,455.84	714,353.92	FOW; MATCH EXISTING
A35	11+16.16	31.50 'LT	832.23	423,436.87	714,391.81	BOC; RAMP OPENING
A36	11+17.76	26.50 'LT	832.34	423,431.85	714,393.36	BOC; RAMP OPENING
A37	11+22.02	31.50 'LT	832.59	423,436.81	714,397.66	FOW; TOP OF RAMP
A38	11+21.99	19.42 'LT	832.52	423,431.81	714,397.59	FOW; TOP OF RAMP
A39	11+26.99	26.50 'LT	832.59	423,431.76	714,402.59	BOW; LEVEL LANDING
A40	11+27.02	31.50 'LT	832.66	423,436.76	714,402.66	BOW; LEVEL LANDING
A41	11+22.06	41.51 'LT	MATCH	423,446.82	714,397.80	FOW; MATCH EXISTING
A42	11+27.06	41.49 'LT	MATCH	423,446.75	714,402.80	BOW; MATCH EXISTING
A43	11+30.35	16.00 'RT	831.65	423,389.23	714,405.52	FLAG; EOP
A44	11+18.62	21.15 'LT	832.44	423,426.50	714,394.16	FLAG; EOP; HIGH POINT
A45	10+82.19	22.40 'LT	834.08	423,428.10	714,357.74	FLAG; EOP; GRADE BREAK
A46	10+73.10	21.47 'LT	834.65	423,427.26	714,348.64	GRADE BREAK
A47	10+81.72	31.49 'LT	833.91	423,437.20	714,357.37	GRADE BREAK
A48	11+17.78	31.49 'LT	832.30	423,436.85	714,393.42	GRADE BREAK

CLAY STREET AT DANN STREET



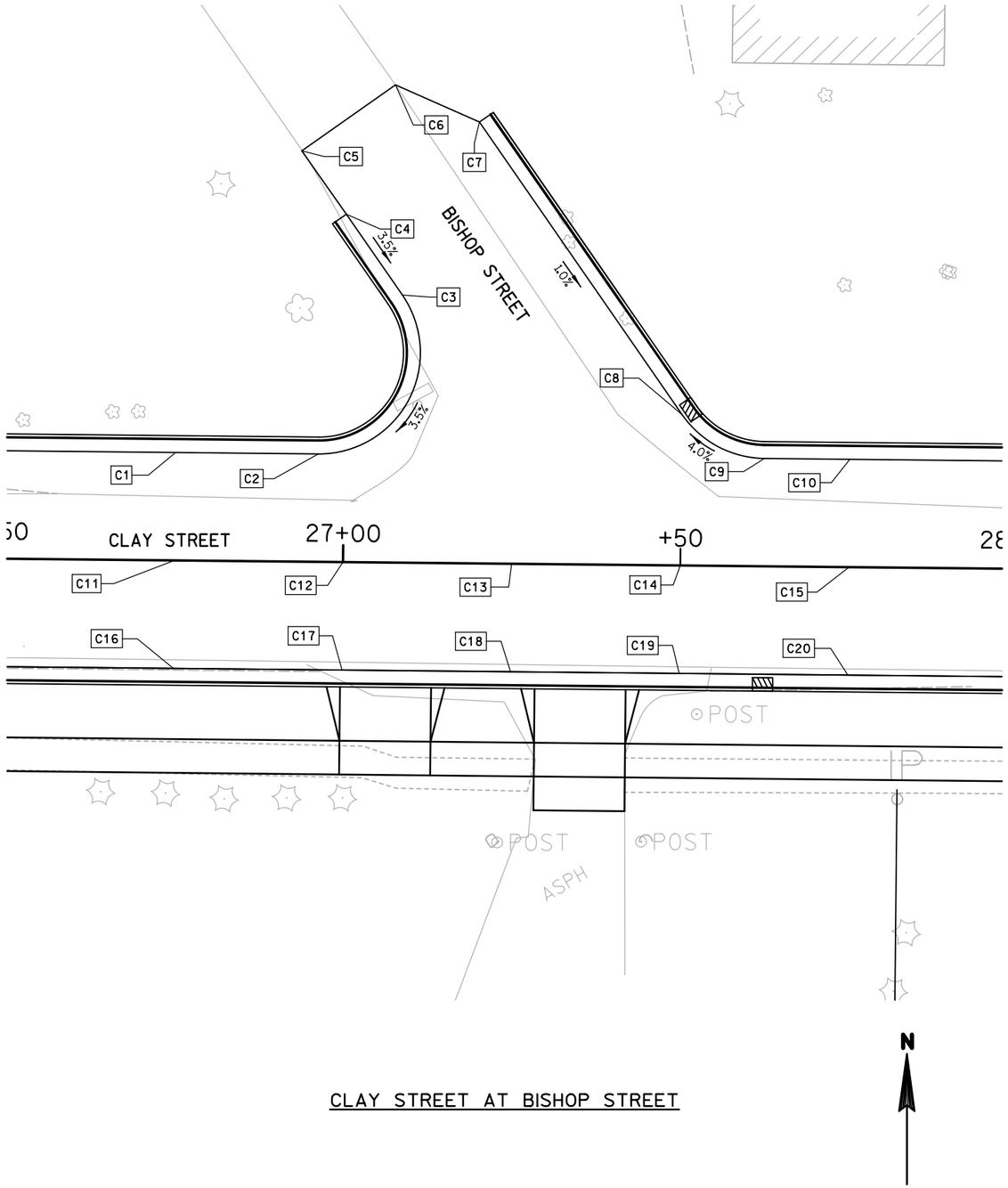
CLAY STREET AT ESTERLY STREET AND NEWCOMB STREET

N

INTERSECTION DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
B1	23+42.55	16.00 'LT	827.35	423,409.27	715,617.98	FLAG; EOP; EOR
B2	23+56.79	43.67 'LT	827.33	423,436.80	715,632.49	FLAG; EOP; EOR
B3	23+42.25	64.02 'LT	MATCH	423,457.28	715,618.16	FLAG; EOP; MATCH EXISTING
B4	23+65.04	80.29 'LT	MATCH	423,473.34	715,641.10	FLAG; EOP; MATCH EXISTING
B5	24+06.89	21.71 'LT	826.82	423,414.35	715,682.37	FLAG; EOP; EOR
B6	24+32.28	29.66 'LT	827.17	423,422.04	715,707.84	FLAG; EOP; ON-GRADE INLET
B7	24+32.53	48.09 'LT	827.64	423,440.47	715,708.28	FLAG; EOP; END CURB
B8	24+36.94	60.80 'LT	MATCH	423,453.13	715,712.81	EOP; MATCH EXISTING
B9	24+54.27	61.13 'LT	MATCH	423,453.30	715,730.15	EOP; MATCH EXISTING
B10	24+54.52	48.07 'LT	827.45	423,440.23	715,730.27	FLAG; EOP; END CURB
B11	24+54.67	30.89 'LT	827.06	423,423.05	715,730.25	FLAG; EOP; LOW-POINT INLET
B12	24+69.59	16.00 'LT	827.29	423,408.01	715,745.01	FLAG; EOP; EOR
B13	23+50.00	0.00 'RT	827.62	423,393.20	715,625.27	CL
B14	23+74.99	0.01 'LT	827.43	423,392.96	715,650.26	CL
B15	24+00.00	0.00 'RT	827.27	423,392.70	715,675.27	CL
B16	24+25.00	0.00 'RT	827.29	423,392.46	715,700.27	CL
B17	24+50.00	0.00 'RT	827.47	423,392.21	715,725.27	CL
B18	24+75.00	0.00 'RT	827.65	423,391.96	715,750.26	CL
B19	23+50.00	16.00 'RT	827.30	423,377.20	715,625.11	FLAG; EOP
B20	23+75.00	16.00 'RT	827.11	423,376.95	715,650.11	FLAG; EOP
B21	24+00.00	16.00 'RT	826.95	423,376.70	715,675.11	FLAG; EOP
B22	24+25.00	16.00 'RT	826.97	423,376.46	715,700.11	FLAG; EOP
B23	24+50.00	16.00 'RT	827.15	423,376.21	715,725.10	FLAG; EOP
B24	24+75.00	16.00 'RT	827.33	423,375.96	715,750.10	FLAG; EOP
B25	23+45.05	19.42 'LT	827.27	423,411.95	715,620.50	BOC; RAMP OPENING
B26	23+50.05	20.51 'LT	827.22	423,413.70	715,625.52	BOC; RAMP OPENING
B27	23+45.05	26.50 'LT	827.59	423,419.74	715,620.58	BOW; TOP RAMP
B28	23+50.05	26.50 'LT	827.52	423,419.69	715,625.58	FOW; TOP RAMP
B29	23+50.05	35.40 'LT	827.70	423,428.59	715,625.67	FOW; EOR
B30	23+47.25	44.12 'LT	827.88	423,437.34	715,622.96	FOW; EOR
B31	23+45.05	35.40 'LT	827.77	423,428.64	715,620.67	BOW; EOR
B32	23+43.18	41.21 'LT	827.95	423,434.47	715,618.86	BOW; EOR
B33	23+32.08	56.75 'LT	MATCH	423,450.12	715,607.91	BOW; MATCH EXISTING
B34	23+36.15	59.65 'LT	MATCH	423,452.99	715,612.01	FOW; MATCH EXISTING
B35	23+50.05	18.50 'RT	827.26	423,374.70	715,625.14	BOC; RAMP OPENING
B36	23+45.05	18.50 'RT	827.29	423,374.75	715,620.14	BOC; RAMP OPENING
B37	23+50.05	26.50 'RT	827.78	423,366.70	715,625.06	FOW; TOP RAMP
B38	23+45.05	19.42 'RT	827.85	423,366.75	715,620.06	FOW; TOP RAMP
B39	23+45.05	31.50 'RT	827.92	423,361.75	715,620.01	BOW; LEVEL LANDING
B40	23+50.05	31.50 'RT	827.85	423,361.70	715,625.01	BOW; LEVEL LANDING
B41	24+05.15	24.16 'LT	826.79	423,416.81	715,680.66	FLAG; EOP; LOW-POINT INLET
B42	24+18.36	15.85 'LT	826.95	423,408.37	715,693.78	FLAG; EOP
B43	26+57.60	24.57 'LT	827.06	423,417.69	715,633.11	FLAG; EOP; LOW-POINT INLET
B44	23+35.24	16.00 'LT	827.41	423,409.34	715,610.67	FLAG; EOP; ON-GRADE INLET
B45	23+35.21	16.00 'RT	827.41	423,377.34	715,610.32	FLAG; EOP; ON-GRADE INLET
B46	24+07.00	16.00 'RT	826.94	423,376.63	715,682.11	FLAG; EOP; LOW-POINT INLET
B47	23+54.05	72.44 'LT	MATCH	423,465.60	715,630.04	CL; MATCH EXISTING
B48	23+81.45	16.00 'LT	827.06	423,408.88	715,656.85	CL
B49	23+45.05	20.51 'LT	827.29	423,413.75	715,620.52	GRADE BREAK

CLAY STREET AT ESTERLY STREET AND NEWCOMB STREET

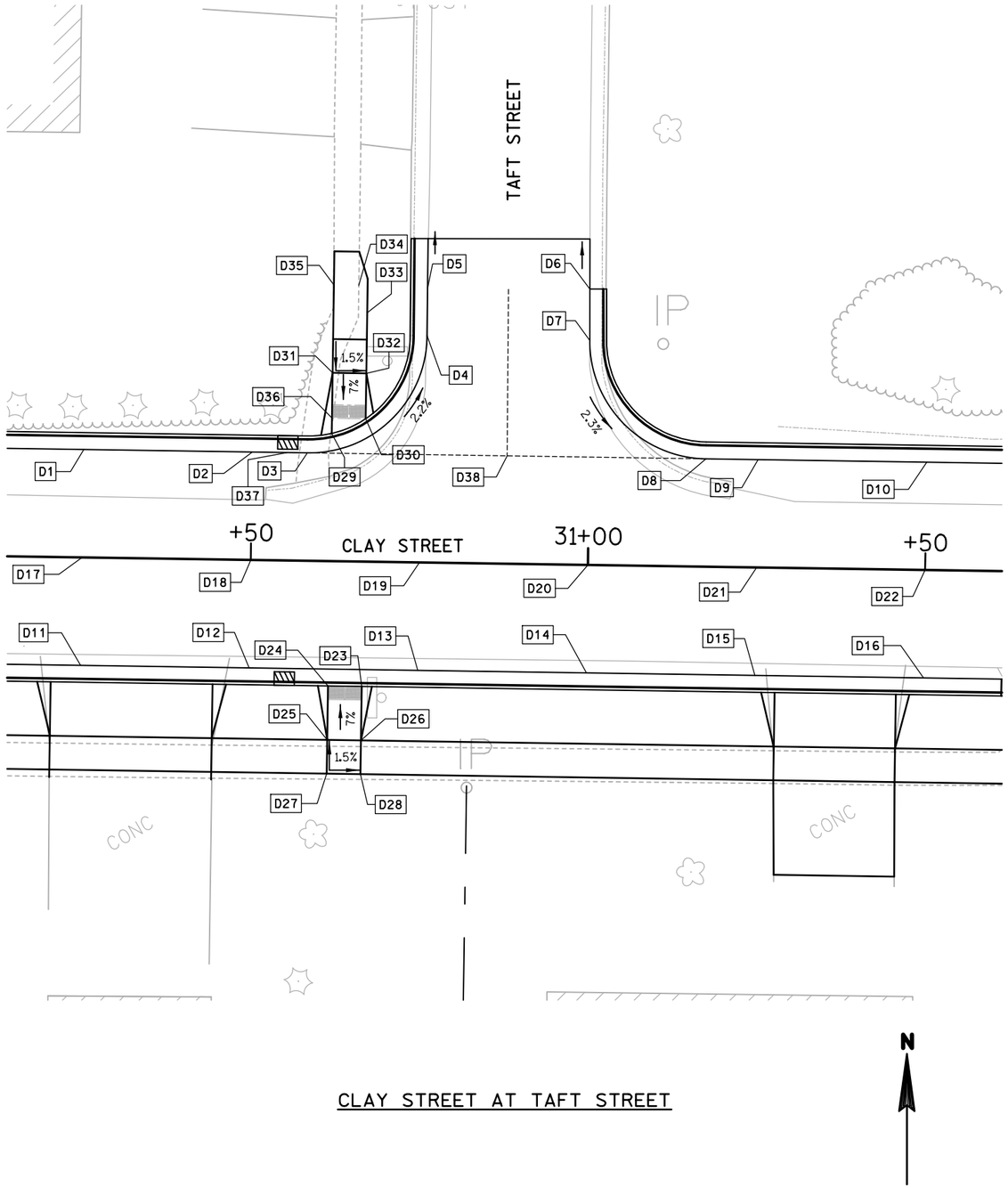


CLAY STREET AT BISHOP STREET

INTERSECTION DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
C1	26+75.00	16.00 'LT	830.34	423,405.93	715,950.42	FLAG; EOP
C2	26+96.15	16.00 'LT	831.02	423,405.72	715,971.56	FLAG; EOP; EOR
C3	27+08.39	39.67 'LT	832.17	423,429.26	715,984.04	FLAG; EOP; EOR
C4	26+99.96	51.57 'LT	832.68	423,441.24	715,975.74	FLAG; EOP; END CURB
C5	26+93.26	60.88 'LT	833.11	423,450.63	715,969.13	Match EOP
C6	27+07.06	70.82 'LT	833.33	423,460.42	715,983.03	Match EOP
C7	27+19.55	65.44 'LT	833.36	423,454.91	715,995.47	FLAG; EOP; END CURB
C8	27+50.07	22.33 'LT	832.83	423,411.50	716,025.54	FLAG; EOP; LOW-POINT INLET
C9	27+62.31	16.00 'LT	833.40	423,405.05	716,037.72	FLAG; EOP; EOR
C10	27+75.00	16.00 'LT	833.86	423,404.92	716,050.41	FLAG; EOP
C11	26+75.00	0.00 'RT	830.58	423,389.93	715,950.25	CL
C12	27+00.00	0.00 'RT	831.48	423,389.68	715,975.25	CL
C13	27+25.00	0.00 'RT	832.38	423,389.42	716,000.25	CL
C14	27+50.00	0.00 'RT	833.28	423,389.17	716,025.25	CL
C15	27+75.00	0.00 'RT	834.18	423,388.92	716,050.25	CL
C16	26+75.00	16.00 'RT	830.26	423,373.93	715,950.09	FLAG; EOP
C17	27+00.00	16.00 'RT	831.16	423,373.68	715,975.09	FLAG; EOP
C18	27+25.00	16.00 'RT	832.06	423,373.43	716,000.09	FLAG; EOP
C19	27+50.00	16.00 'RT	832.96	423,373.17	716,025.09	FLAG; EOP
C20	27+75.00	16.00 'RT	833.86	423,372.92	716,050.09	FLAG; EOP

CLAY STREET AT BISHOP STREET

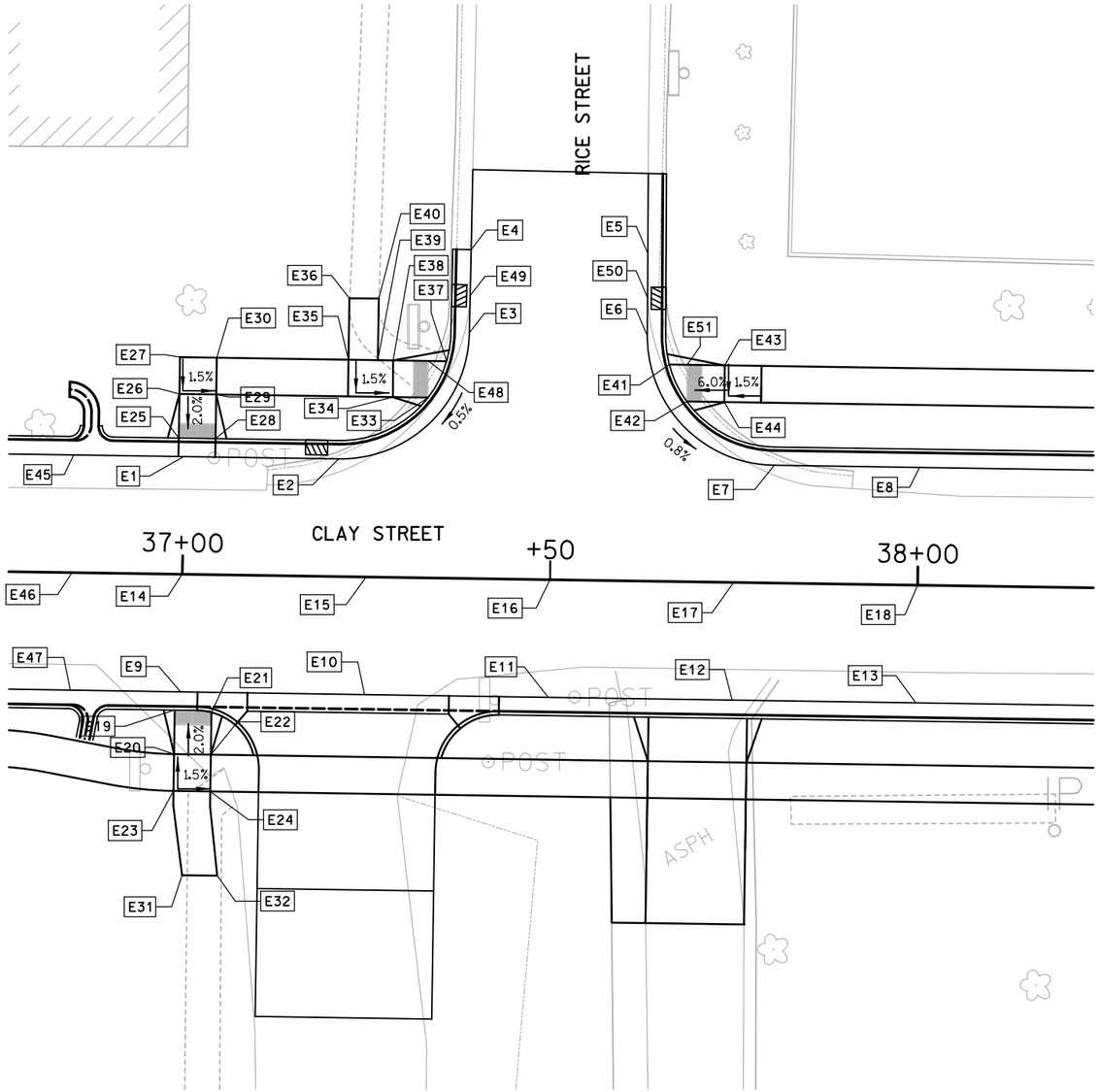


CLAY STREET AT TAFT STREET

INTERSECTION DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
D1	30+25.00	16.00 'LT	833.87	423,401.48	716,300.46	FLAG; EOP
D2	30+50.00	16.00 'LT	833.13	423,401.11	716,325.46	FLAG; EOP
D3	30+58.16	16.00 'LT	832.87	423,400.99	716,333.62	FLAG; EOP; EOR
D4	30+75.66	33.61 'LT	832.26	423,418.34	716,351.38	FLAG; EOP; EOR
D5	30+75.61	40.61 'LT	MATCH	423,425.34	716,351.44	FLAG; EOP; MATCH EXISTING
D6	30+99.67	40.92 'LT	MATCH	423,425.28	716,375.50	FLAG; EOP; MATCH EXISITNG; HIGH POINT
D7	30+99.77	33.28 'LT	831.97	423,417.65	716,375.48	FLAG; EOP; EOR
D8	31+17.26	16.00 'LT	831.34	423,400.11	716,392.72	FLAG; EOP; EOR
D9	31+25.00	16.00 'LT	831.19	423,399.99	716,400.45	FLAG; EOP
D10	31+50.00	16.00 'LT	830.78	423,399.62	716,425.45	FLAG; EOP
D11	30+25.00	16.00 'RT	833.87	423,369.49	716,299.99	FLAG; EOP
D12	30+50.00	16.00 'RT	833.13	423,369.11	716,324.98	FLAG; EOP
D13	30+75.00	16.00 'RT	832.36	423,368.74	716,349.98	FLAG; EOP
D14	31+00.00	16.00 'RT	831.72	423,368.37	716,374.98	FLAG; EOP
D15	31+25.00	16.00 'RT	831.19	423,367.99	716,399.98	FLAG; EOP
D16	31+50.00	16.00 'RT	830.78	423,367.62	716,424.97	FLAG; EOP
D17	30+25.00	0.00 'RT	834.19	423,385.48	716,300.23	CL
D18	30+50.00	0.00 'RT	833.45	423,385.11	716,325.22	CL
D19	30+75.00	0.00 'RT	832.68	423,384.74	716,350.22	CL
D20	31+00.00	0.00 'RT	832.04	423,384.37	716,375.22	CL
D21	31+25.00	0.00 'RT	831.51	423,383.99	716,400.21	CL
D22	31+50.00	0.00 'RT	831.10	423,383.62	716,425.21	CL
D23	30+66.73	18.50 'RT	832.57	423,366.36	716,341.68	BOC; RAMP OPENING
D24	30+61.73	18.50 'RT	832.72	423,366.44	716,336.68	BOC; RAMP OPENING
D25	30+61.73	19.42 'RT	833.20	423,358.44	716,336.56	FOW; TOP OF RAMP
D26	30+66.73	26.50 'RT	833.13	423,358.36	716,341.56	FOW; TOP OF RAMP
D27	30+61.73	31.50 'RT	833.27	423,353.44	716,336.49	BOW; LEVEL LANDING
D28	30+66.73	31.50 'RT	833.20	423,353.37	716,341.49	BOW; LEVEL LANDING
D29	30+61.74	18.93 'LT	832.74	423,403.87	716,337.24	BOC; RAMP OPENING
D30	30+66.73	21.19 'LT	832.61	423,406.05	716,342.27	BOC; RAMP OPENING
D31	30+61.73	27.92 'LT	833.15	423,412.86	716,337.37	BOW; TOP OF RAMP
D32	30+66.73	27.93 'LT	833.08	423,412.78	716,342.37	FOW; TOP OF RAMP
D33	30+66.73	36.93 'LT	833.28	423,421.78	716,342.50	FOW
D34	30+65.41	40.93 'LT	MATCH	423,425.80	716,341.24	FOW; MATCH EXISTING
D35	30+61.72	40.92 'LT	MATCH	423,425.86	716,337.55	BOW; MATCH EXISTING
D36	30+61.74	21.20 'LT	832.77	423,406.13	716,337.27	GRADE BREAK
D37	30+55.00	16.00 'LT	832.96	423,401.03	716,330.57	FLAG; EOP; ON-GRADE INLET
D38	30+87.77	16.00 'LT	832.02	423,400.55	716,353.06	CL

CLAY STREET AT TAFT STREET

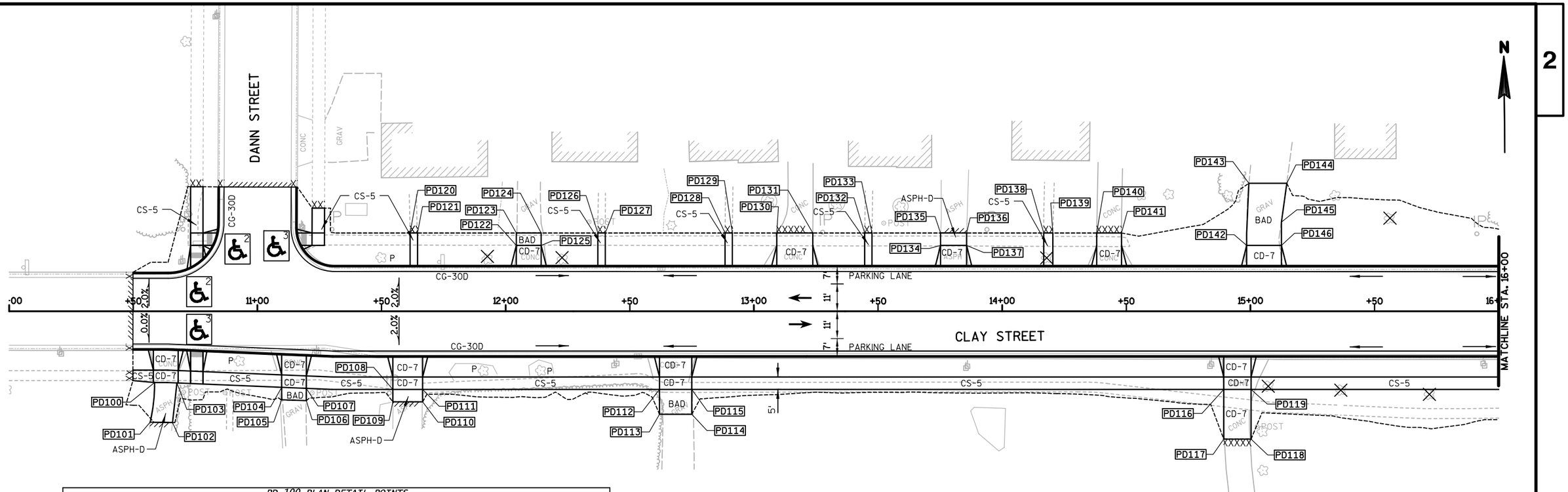


CLAY STREET AT RICE STREET

INTERSECTION DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
E1	37+00.00	16.00'LT	829.08	423,391.42	716,975.39	FLAG; EOP
E2	37+21.04	16.00'LT	828.98	423,391.11	716,996.42	FLAG; EOP; EOR
E3	37+38.54	33.38'LT	829.07	423,408.23	717,014.18	FLAG; EOP; EOR
E4	37+38.61	44.72'LT	829.12	423,419.56	717,014.43	FLAG; EOP; MATCH EXISTING
E5	37+62.64	44.56'LT	829.00	423,419.04	717,038.45	FLAG; EOP; MATCH EXISTING
E6	37+62.75	33.33'LT	828.91	423,407.81	717,038.39	FLAG; EOP; EOR
E7	37+80.25	16.00'LT	828.68	423,390.22	717,055.63	FLAG; EOP; EOR
E8	38+00.00	16.00'LT	828.58	423,389.93	717,075.38	FLAG; EOP
E9	37+00.00	16.00'RT	829.08	423,359.42	716,974.91	FLAG; EOP
E10	37+25.00	16.00'RT	828.95	423,359.05	716,999.91	FLAG; EOP
E11	37+50.00	16.00'RT	828.83	423,358.68	717,024.91	FLAG; EOP
E12	37+75.00	16.00'RT	828.71	423,358.30	717,049.90	FLAG; EOP
E13	38+00.00	16.00'RT	828.58	423,357.93	717,074.90	FLAG; EOP
E14	37+00.00	0.00'RT	829.40	423,375.42	716,975.15	CL
E15	37+25.00	0.00'RT	829.28	423,375.05	717,000.15	CL
E16	37+50.00	0.00'RT	829.15	423,374.68	717,025.14	CL
E17	37+75.00	0.00'RT	829.02	423,374.30	717,050.14	CL
E18	38+00.00	0.00'RT	828.90	423,373.93	717,075.14	CL
E19	36+99.23	18.50'RT	829.05	423,356.93	716,974.10	BOC; RAMP OPENING
E20	36+99.23	24.50'RT	829.17	423,350.93	716,974.02	FOW; TOP OF RAMP
E21	37+04.23	18.74'RT	829.02	423,356.62	716,979.10	BOC; RAMP OPENING
E22	37+04.23	24.50'RT	829.14	423,350.86	716,979.01	FOW; TOP OF RAMP
E23	36+99.23	29.50'RT	829.25	423,345.94	716,973.94	BOW; TOP OF RAMP
E24	37+04.23	29.50'RT	829.20	423,345.86	716,978.94	BOW; TOP OF RAMP
E25	36+99.23	19.42'LT	829.05	423,393.93	716,974.66	BOC; RAMP OPENING
E26	36+99.23	24.50'LT	829.17	423,399.93	716,974.75	FOW; TOP OF RAMP
E27	36+99.23	29.50'LT	829.25	423,404.93	716,974.82	BOW; TOP OF RAMP
E28	37+04.23	18.50'LT	829.03	423,393.86	716,979.66	BOC; RAMP OPENING
E29	37+04.24	24.50'LT	829.15	423,399.85	716,979.75	FOW; TOP OF RAMP
E30	37+04.23	29.50'LT	829.23	423,404.85	716,979.82	BOW; TOP OF RAMP
E31	37+00.56	40.95'RT	829.08	423,334.47	716,975.10	BOW; MATCH EXISTING
E32	37+05.88	38.00'RT	829.03	423,337.34	716,980.46	BOW; MATCH EXISTING
E33	37+33.04	24.50'LT	829.00	423,399.43	717,008.55	BOC; RAMP OPENING
E34	37+28.27	24.50'LT	829.10	423,399.50	717,003.78	FOW; TOP OF RAMP
E35	37+22.15	29.50'LT	829.23	423,404.59	716,997.73	BOW
E36	37+22.15	37.85'LT	829.37	423,412.94	716,997.86	BOW; MATCH EXISTING
E37	37+35.91	29.50'LT	829.03	423,404.39	717,011.08	FOW; TOP OF RAMP
E38	37+28.23	19.42'LT	829.17	423,404.50	717,003.82	FOW; TOP OF RAMP
E39	37+26.15	29.50'LT	829.18	423,404.53	717,001.73	BOW
E40	37+26.15	37.89'LT	829.29	423,412.92	717,001.86	BOW; MATCH EXISTING
E41	37+65.79	29.50'LT	828.85	423,403.94	717,041.37	BOC; RAMP OPENING
E42	37+68.25	24.50'LT	828.81	423,398.90	717,043.76	BOC; RAMP OPENING
E43	37+73.32	29.50'LT	829.18	423,403.82	717,048.91	FOW; TOP OF RAMP
E44	37+73.35	24.50'LT	829.11	423,398.82	717,048.86	FOW; TOP OF RAMP
E45	36+85.00	16.00'LT	829.15	423,391.64	716,960.39	FLAG; EOP
E46	36+85.00	0.00'RT	829.47	423,375.64	716,960.15	CL
E47	36+85.00	16.00'RT	829.15	423,359.65	716,959.91	FLAG; EOP
E48	37+33.02	29.50'LT	829.07	423,404.43	717,008.60	GRADE BREAK
E49	37+38.97	38.44'LT	829.09	423,413.29	717,014.29	FLAG; EOP; LOW-POINT INLET
E50	37+62.70	38.53'LT	828.95	423,413.02	717,038.42	FLAG; EOP; LOW-POINT INLET
E51	37+68.22	29.50'LT	828.89	423,403.90	717,043.81	GRADE BREAK

CLAY STREET AT RICE STREET



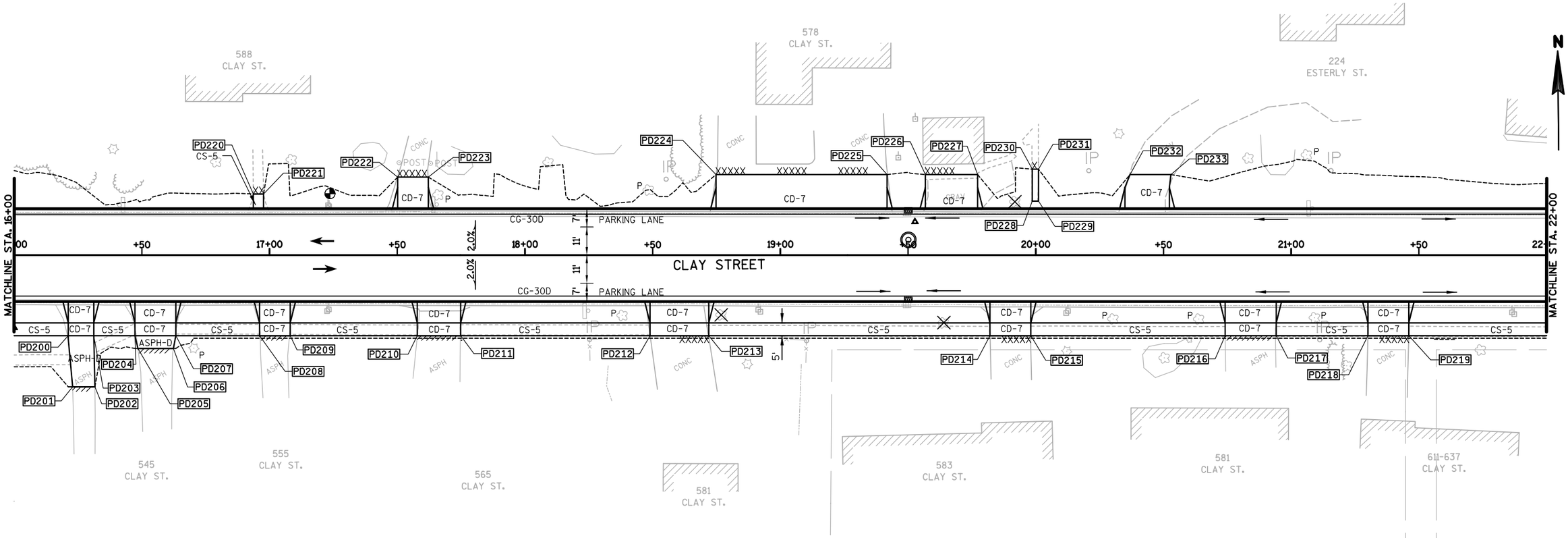
PD-100 PLAN DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
PD100	10+58.58	28.70'RT	836.54	423,377.24	714,333.63	
PD101	10+56.82	44.67'RT	MATCH	423,361.29	714,331.71	
PD102	10+65.81	44.84'RT	MATCH	423,361.03	714,340.70	
PD103	10+67.58	28.87'RT	835.96	423,376.98	714,342.63	
PD104	11+09.73	30.64'RT	833.59	423,374.79	714,384.76	
PD105	11+09.73	35.67'RT	MATCH	423,369.76	714,384.71	
PD106	11+19.73	35.96'RT	MATCH	423,369.38	714,394.70	
PD107	11+19.73	31.07'RT	832.99	423,374.27	714,394.75	
PD108	11+54.56	31.50'RT	831.25	423,373.49	714,429.58	
PD109	11+54.56	36.50'RT	MATCH	423,368.49	714,429.53	
PD110	11+66.56	36.50'RT	MATCH	423,368.37	714,441.53	
PD111	11+66.56	31.50'RT	830.86	423,373.37	714,441.58	
PD112	12+61.95	31.50'RT	829.23	423,372.43	714,536.96	
PD113	12+61.95	41.50'RT	MATCH	423,362.43	714,536.86	
PD114	12+74.95	41.50'RT	MATCH	423,362.30	714,549.86	
PD115	12+74.95	31.50'RT	829.34	423,372.30	714,549.96	
PD116	14+89.26	31.50'RT	839.05	423,370.19	714,764.26	
PD117	14+89.26	51.50'RT	MATCH	423,350.19	714,764.06	
PD118	15+00.26	51.50'RT	MATCH	423,350.08	714,775.06	
PD119	15+00.26	31.50'RT	839.60	423,370.08	714,775.26	
PD120	11+61.50	-31.50'RT	MATCH	423,436.42	714,437.14	
PD121	11+64.49	-31.50'RT	MATCH	423,436.39	714,440.13	
PD122	12+04.31	-26.50'RT	829.65	423,431.00	714,479.90	
PD123	12+04.31	-31.50'RT	MATCH	423,436.00	714,479.95	
PD124	12+14.31	-31.50'RT	MATCH	423,435.90	714,489.95	
PD125	12+14.31	-26.50'RT	829.70	423,430.90	714,489.90	
PD126	12+37.12	-31.50'RT	MATCH	423,435.67	714,512.75	
PD127	12+40.12	-31.50'RT	MATCH	423,435.64	714,515.75	
PD128	12+88.34	-31.50'RT	MATCH	423,435.17	714,563.97	
PD129	12+91.34	-31.50'RT	MATCH	423,435.14	714,566.97	
PD130	13+09.19	-31.50'RT	MATCH	423,434.96	714,584.82	
PD131	13+23.69	-31.50'RT	MATCH	423,434.82	714,599.32	
PD132	13+44.62	-31.50'RT	MATCH	423,434.61	714,620.25	
PD133	13+47.56	-31.50'RT	MATCH	423,434.58	714,623.19	
PD134	13+75.16	-26.50'RT	831.80	423,429.31	714,650.74	
PD135	13+75.16	-31.50'RT	MATCH	423,434.31	714,650.79	
PD136	13+85.66	-31.50'RT	MATCH	423,434.21	714,661.29	
PD137	13+85.66	-26.50'RT	832.28	423,429.21	714,661.24	
PD138	14+16.72	-31.50'RT	MATCH	423,433.90	714,692.34	
PD139	14+20.39	-31.50'RT	MATCH	423,433.87	714,696.01	
PD140	14+38.07	-31.50'RT	MATCH	423,433.69	714,713.70	
PD141	14+48.07	-31.50'RT	MATCH	423,433.59	714,723.70	
PD142	14+98.47	-26.50'RT	839.45	423,428.10	714,774.05	

LEGEND

ASPH-D	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	BAD	6-INCHES BASE AGGREGATE DENSE 3/4-INCH
CD-7	CONCRETE DRIVEWAY 7-INCH	P	TREE PROTECTION
CS-5	CONCRETE SIDEWALK 5-INCH	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
	CURB RAMP, TYPE X	X	TREE REMOVAL (CLEARING AND GRUBBING)
	TRAFFIC FLOW		
	PROPOSED INLET		
	PROPOSED STORM SEWER MANHOLE OR EXISTING STORM SEWER MANHOLE TO REMAIN		
	CURB RAMP DETECTABLE WARNING FIELD		
	DRAINAGE FLOW ARROW		
//////	SAWING ASPHALT		
XXXXX	SAWING CONCRETE		
------	SLOPE INTERCEPTS		

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN DETAILS	SHEET 19	E



PD-200 PLAN DETAIL POINTS

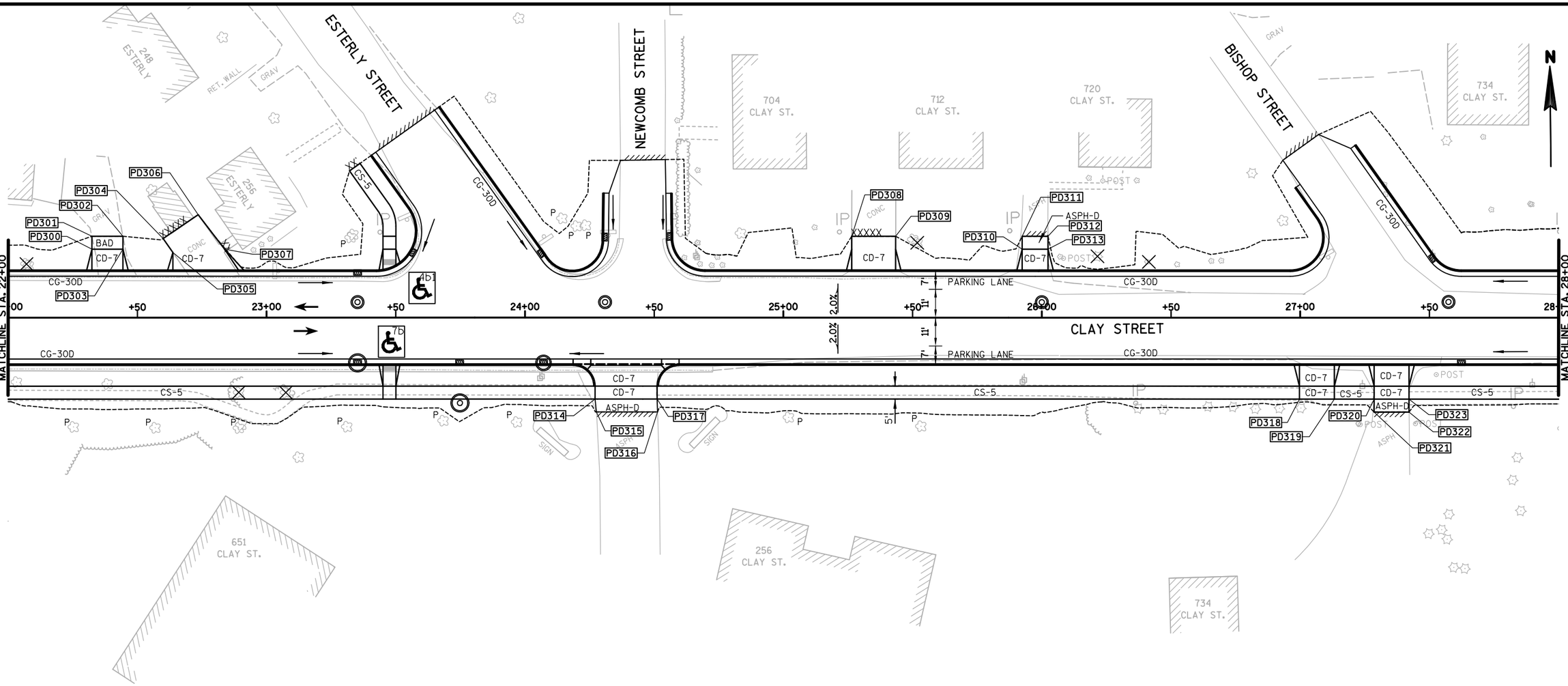
POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
PD200	16+21.15	31.50 'RT	839.75	423,368.89	714,896.15	
PD201	16+22.87	51.50 'RT	MATCH	423,348.87	714,897.67	
PD202	16+31.63	51.50 'RT	MATCH	423,348.79	714,906.43	
PD203	16+31.15	31.50 'RT	839.24	423,368.79	714,906.15	
PD204	16+47.29	31.50 'RT	838.16	423,368.63	714,922.28	
PD205	16+48.48	36.50 'RT	MATCH	423,363.62	714,923.43	
PD206	16+62.37	36.50 'RT	MATCH	423,363.48	714,937.31	
PD207	16+63.29	31.50 'RT	837.28	423,368.47	714,938.28	
PD208	16+96.09	31.50 'RT	MATCH	423,368.15	714,971.08	
PD209	17+08.09	31.50 'RT	MATCH	423,368.03	714,983.08	
PD210	17+57.84	31.50 'RT	MATCH	423,367.54	715,032.83	
PD211	17+74.84	31.50 'RT	MATCH	423,367.37	715,049.83	
PD212	18+48.99	31.50 'RT	MATCH	423,366.64	715,123.97	
PD213	18+71.99	31.50 'RT	MATCH	423,366.41	715,146.97	
PD214	19+82.08	31.50 'RT	MATCH	423,365.33	715,257.05	
PD215	19+98.08	31.50 'RT	MATCH	423,365.17	715,273.05	
PD216	20+74.14	31.50 'RT	MATCH	423,364.42	715,349.12	
PD217	20+94.14	31.50 'RT	MATCH	423,364.22	715,369.12	
PD218	21+30.06	31.50 'RT	MATCH	423,363.87	715,405.03	
PD219	21+46.06	31.50 'RT	MATCH	423,363.71	715,421.03	
PD220	16+93.63	-23.90 'RT	MATCH	423,423.58	714,969.17	
PD221	16+97.63	-23.90 'RT	MATCH	423,423.54	714,973.17	
PD222	17+50.16	-30.50 'RT	MATCH	423,429.61	715,025.76	
PD223	17+62.16	-30.50 'RT	MATCH	423,429.49	715,037.76	
PD224	18+74.78	-31.50 'RT	MATCH	423,429.38	715,150.38	
PD225	19+41.78	-31.50 'RT	MATCH	423,428.72	715,217.38	
PD226	19+56.75	-31.50 'RT	MATCH	423,428.57	715,232.35	
PD227	19+77.25	-31.50 'RT	MATCH	423,428.37	715,252.85	
PD228	19+98.63	-21.14 'RT	827.89	423,417.80	715,274.13	
PD229	20+01.08	-21.14 'RT	827.92	423,417.78	715,276.58	
PD230	19+98.63	-33.64 'RT	MATCH	423,430.30	715,274.25	
PD231	20+01.08	-33.64 'RT	MATCH	423,430.28	715,276.70	
PD232	20+36.92	-31.50 'RT	MATCH	423,427.78	715,312.51	
PD233	20+52.92	-31.50 'RT	MATCH	423,427.63	715,328.51	

PD117

LEGEND

ASPH-D	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	BAD	6-INCHES BASE AGGREGATE DENSE 3/4-INCH
CD-7	CONCRETE DRIVEWAY 7-INCH	P	TREE PROTECTION
CS-5	CONCRETE SIDEWALK 5-INCH	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
	CURB RAMP, TYPE X	X	TREE REMOVAL (CLEARING AND GRUBBING)
	TRAFFIC FLOW		
	PROPOSED INLET		
	PROPOSED STORM SEWER MANHOLE OR EXISTING STORM SEWER MANHOLE TO REMAIN		
	CURB RAMP DETECTABLE WARNING FIELD		
	DRAINAGE FLOW ARROW		
//////	SAWING ASPHALT		
XXXXX	SAWING CONCRETE		
------	SLOPE INTERCEPTS		

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN DETAILS	SHEET 20	E

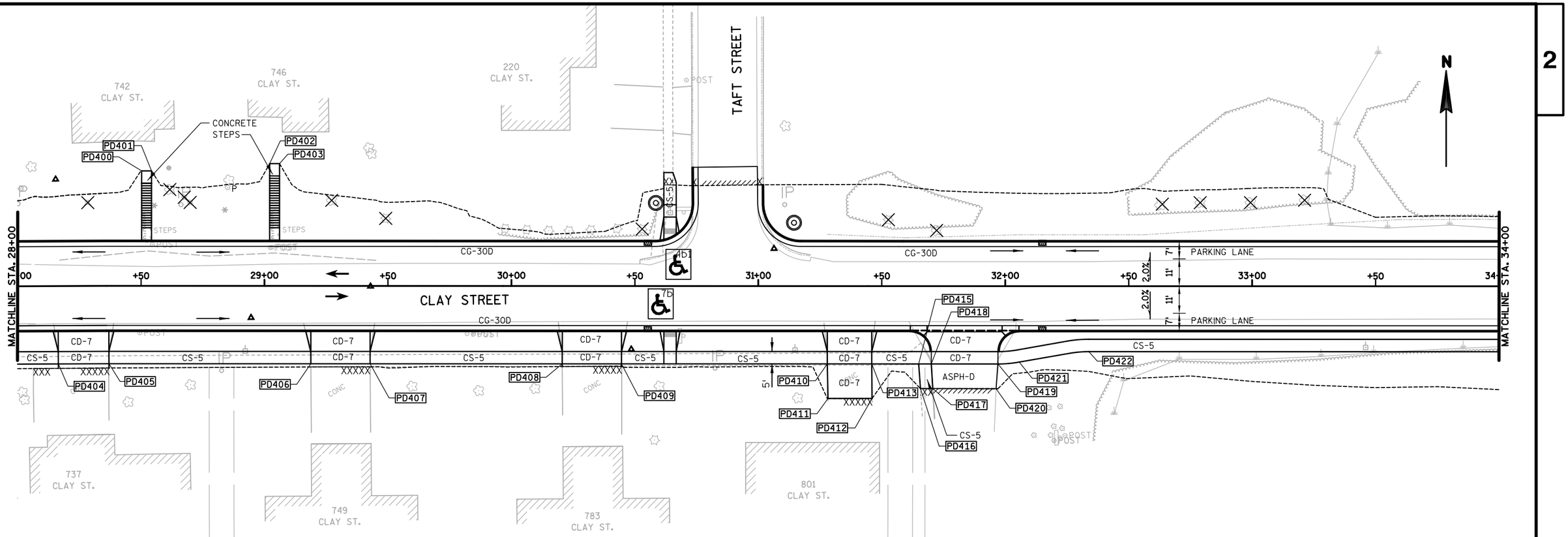


PD-300 PLAN DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
PD300	22+32.39	-26.50'RT	829.35	423,420.86	715,507.93	
PD301	22+32.39	-31.50'RT	MATCH	423,425.86	715,507.97	
PD302	22+44.39	-31.50'RT	MATCH	423,425.74	715,519.97	
PD303	22+44.39	-26.50'RT	828.80	423,420.74	715,519.93	
PD304	22+59.96	-30.63'RT	MATCH	423,424.71	715,535.54	
PD305	22+63.73	-25.22'RT	828.48	423,419.27	715,539.25	
PD306	22+73.53	-39.81'RT	MATCH	423,433.76	715,549.20	
PD307	22+83.73	-26.50'RT	MATCH	423,420.35	715,559.26	
PD308	25+26.45	-31.50'RT	MATCH	423,422.93	715,802.03	
PD309	25+43.45	-31.50'RT	MATCH	423,422.76	715,819.03	
PD310	25+92.39	-26.50'RT	828.76	423,417.27	715,867.92	
PD311	25+92.39	-31.50'RT	MATCH	423,422.27	715,867.97	
PD312	26+02.39	-31.50'RT	MATCH	423,422.16	715,877.97	
PD313	26+02.39	-26.50'RT	828.93	423,417.16	715,877.92	
PD314	24+27.14	31.50'RT	827.30	423,360.94	715,702.09	
PD315	24+27.63	36.50'RT	MATCH	423,355.93	715,702.54	
PD316	24+51.29	36.50'RT	MATCH	423,355.70	715,726.19	
PD317	24+51.14	31.50'RT	827.45	423,360.70	715,726.09	
PD318	26+99.72	31.50'RT	MATCH	423,358.18	715,974.66	
PD319	27+13.22	31.50'RT	MATCH	423,358.05	715,988.16	
PD320	27+28.58	31.50'RT	832.43	423,357.89	716,003.52	
PD321	27+28.58	36.50'RT	MATCH	423,352.89	716,003.47	
PD322	27+42.08	36.50'RT	MATCH	423,352.75	716,016.96	
PD323	27+42.08	31.50'RT	832.90	423,357.75	716,017.02	

LEGEND

ASPH-D	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	BAD	6-INCHES BASE AGGREGATE DENSE 3/4-INCH
CD-7	CONCRETE DRIVEWAY 7-INCH	P	TREE PROTECTION
CS-5	CONCRETE SIDEWALK 5-INCH	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
	CURB RAMP, TYPE X	X	TREE REMOVAL (CLEARING AND GRUBBING)
	TRAFFIC FLOW		
	PROPOSED INLET		
	PROPOSED STORM SEWER MANHOLE OR EXISTING STORM SEWER MANHOLE TO REMAIN		
	CURB RAMP DETECTABLE WARNING FIELD		
	DRAINAGE FLOW ARROW		
//////	SAWING ASPHALT		
XXXXX	SAWING CONCRETE		
------	SLOPE INTERCEPTS		

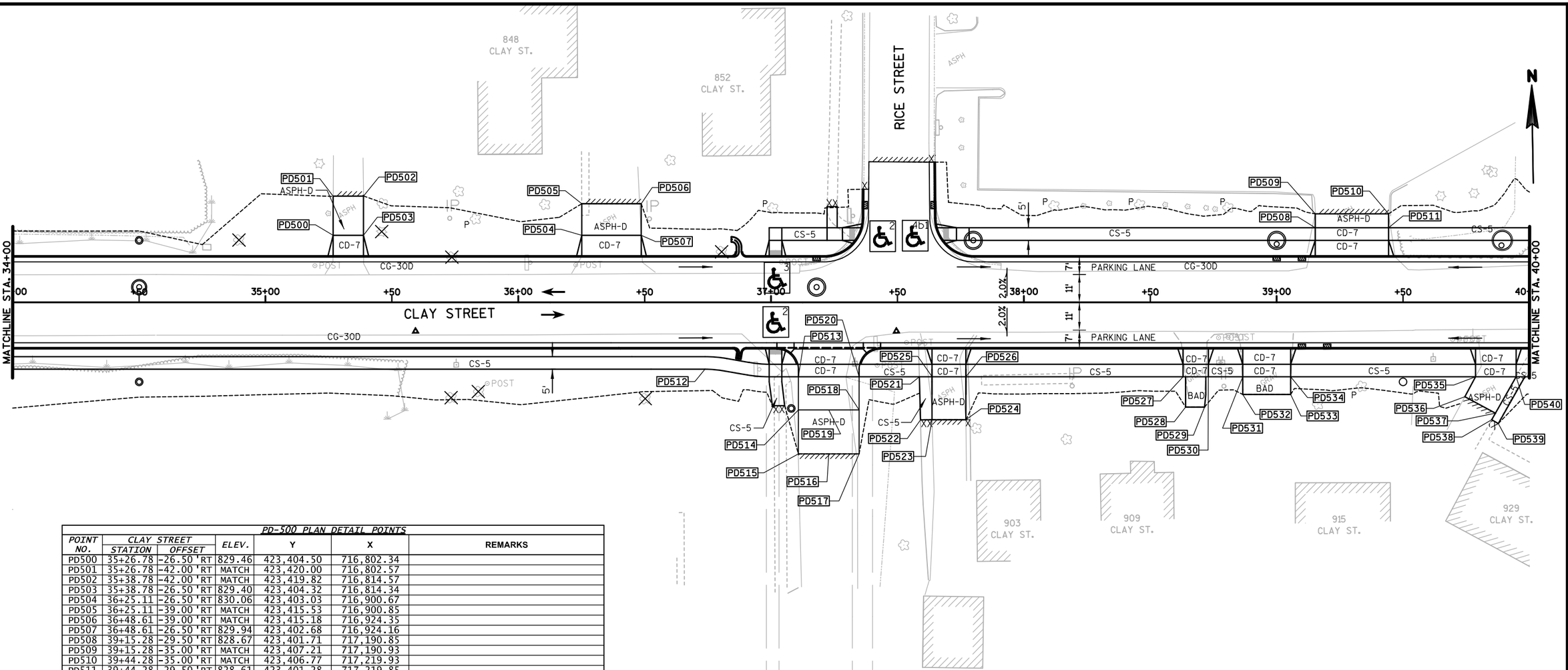


PD-400 PLAN DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
PD400	28+50.23	-46.50 'RT	845.52	423,434.58	716,126.16	
PD401	28+54.23	-46.50 'RT	845.52	423,434.52	716,130.16	
PD402	29+02.06	-49.50 'RT	846.84	423,436.81	716,178.03	
PD403	29+06.06	-49.50 'RT	846.87	423,436.75	716,182.03	
PD404	28+16.36	31.50 'RT	MATCH	423,357.00	716,091.29	
PD405	28+37.01	31.50 'RT	MATCH	423,356.79	716,111.79	
PD406	29+18.76	31.50 'RT	MATCH	423,355.57	716,193.53	
PD407	29+42.76	31.50 'RT	MATCH	423,355.21	716,217.53	
PD408	30+20.60	31.50 'RT	MATCH	423,354.05	716,295.35	
PD409	30+44.60	31.50 'RT	MATCH	423,353.70	716,319.35	
PD410	31+27.94	31.50 'RT	832.00	423,352.45	716,402.68	
PD411	31+28.20	45.50 'RT	MATCH	423,338.45	716,402.74	
PD412	31+46.08	45.50 'RT	MATCH	423,338.18	716,420.61	
PD413	31+45.94	31.50 'RT	831.73	423,352.18	716,420.68	
PD415	31+64.98	31.50 'RT	831.02	423,351.90	716,439.72	
PD416	31+65.67	41.50 'RT	MATCH	423,341.89	716,440.26	
PD417	31+70.68	41.50 'RT	MATCH	423,341.82	716,445.28	
PD418	31+70.06	31.50 'RT	830.92	423,351.82	716,444.80	
PD419	31+97.06	31.50 'RT	830.58	423,351.42	716,471.79	
PD420	31+96.30	41.50 'RT	MATCH	423,341.43	716,470.88	
PD421	32+05.68	30.75 'RT	830.66	423,352.04	716,480.42	
PD422	32+33.88	26.50 'RT	830.90	423,355.87	716,508.69	

LEGEND

ASPH-D	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	BAD	6-INCHES BASE AGGREGATE DENSE 3/4-INCH
CD-7	CONCRETE DRIVEWAY 7-INCH	P	TREE PROTECTION
CS-5	CONCRETE SIDEWALK 5-INCH	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
	CURB RAMP, TYPE X	X	TREE REMOVAL (CLEARING AND GRUBBING)
	TRAFFIC FLOW		
	PROPOSED INLET		
	PROPOSED STORM SEWER MANHOLE OR EXISTING STORM SEWER MANHOLE TO REMAIN		
	CURB RAMP DETECTABLE WARNING FIELD		
	DRAINAGE FLOW ARROW		
//////	SAWING ASPHALT		
XXXXX	SAWING CONCRETE		
------	SLOPE INTERCEPTS		



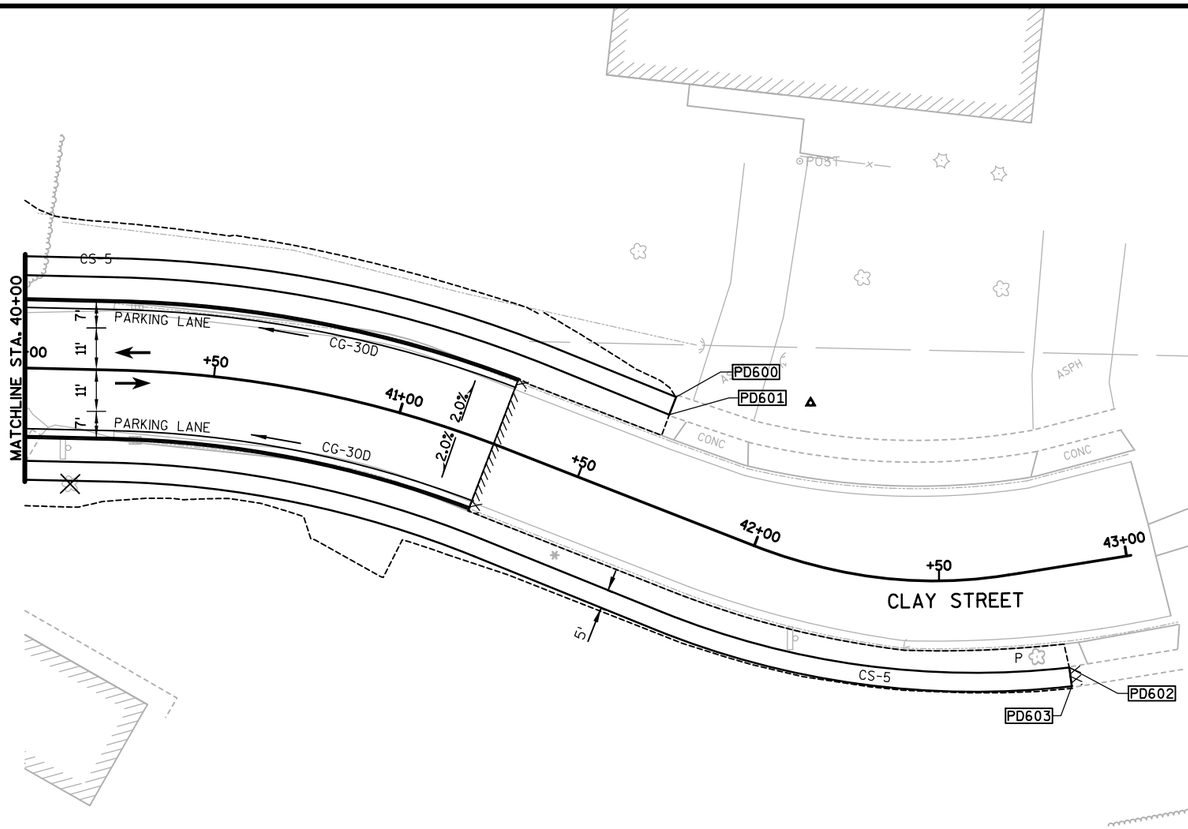
PD-500 PLAN DETAIL POINTS

POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
PD500	35+26.78	-26.50 'RT	829.46	423,404.50	716,802.34	
PD501	35+26.78	-42.00 'RT	MATCH	423,420.00	716,802.57	
PD502	35+38.78	-42.00 'RT	MATCH	423,419.82	716,814.57	
PD503	35+38.78	-26.50 'RT	829.40	423,404.32	716,814.34	
PD504	36+25.11	-26.50 'RT	830.06	423,403.03	716,900.67	
PD505	36+25.11	-39.00 'RT	MATCH	423,415.53	716,900.85	
PD506	36+48.61	-39.00 'RT	MATCH	423,415.18	716,924.35	
PD507	36+48.61	-26.50 'RT	829.94	423,402.68	716,924.16	
PD508	39+15.28	-29.50 'RT	828.67	423,401.71	717,190.85	
PD509	39+15.28	-35.00 'RT	MATCH	423,407.21	717,190.93	
PD510	39+44.28	-35.00 'RT	MATCH	423,406.77	717,219.93	
PD511	39+44.28	-29.50 'RT	828.61	423,401.28	717,219.85	
PD512	36+73.84	26.50 'RT	829.72	423,349.31	716,948.60	
PD513	37+10.80	29.50 'RT	829.22	423,345.76	716,985.51	
PD514	37+10.80	42.59 'RT	828.83	423,332.67	716,985.32	
PD515	37+10.80	60.00 'RT	828.93	423,315.27	716,985.06	
PD516	37+22.80	60.00 'RT	829.10	423,315.09	716,997.06	
PD517	37+34.80	60.00 'RT	828.86	423,314.91	717,009.05	
PD518	37+34.80	42.59 'RT	828.70	423,332.32	717,009.31	
PD519	37+22.80	42.59 'RT	828.95	423,332.50	716,997.31	
PD520	37+34.80	29.50 'RT	829.10	423,345.41	717,009.51	
PD521	37+58.65	29.50 'RT	829.02	423,345.05	717,033.35	
PD522	37+59.08	46.52 'RT	MATCH	423,328.02	717,033.53	
PD523	37+63.68	46.50 'RT	MATCH	423,327.98	717,038.13	
PD524	37+77.08	46.50 'RT	MATCH	423,327.78	717,051.53	
PD525	37+63.69	29.50 'RT	828.99	423,344.97	717,038.39	
PD526	37+77.08	29.50 'RT	828.90	423,344.77	717,051.78	
PD527	38+63.00	29.50 'RT	828.45	423,343.49	717,137.69	
PD528	38+64.00	41.50 'RT	MATCH	423,331.48	717,138.51	
PD529	38+71.50	41.50 'RT	MATCH	423,331.37	717,146.01	
PD530	38+73.00	29.50 'RT	828.41	423,343.34	717,147.69	
PD531	38+86.56	29.50 'RT	828.54	423,343.14	717,161.25	
PD532	38+86.56	36.50 'RT	MATCH	423,336.14	717,161.15	
PD533	39+05.56	36.50 'RT	MATCH	423,335.86	717,180.15	
PD534	39+05.56	29.50 'RT	828.46	423,342.86	717,180.25	
PD535	39+78.69	29.50 'RT	829.37	423,341.77	717,253.37	
PD536	39+74.45	37.36 'RT	MATCH	423,333.97	717,249.01	
PD537	39+86.56	43.89 'RT	MATCH	423,327.26	717,261.02	
PD538	39+85.07	46.50 'RT	MATCH	423,324.68	717,259.50	
PD539	39+87.68	47.98 'RT	MATCH	423,323.15	717,262.08	
PD540	39+94.75	29.50 'RT	829.56	423,341.53	717,269.42	

LEGEND

ASPH-D	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	BAD	6-INCHES BASE AGGREGATE DENSE 3/4-INCH
CD-7	CONCRETE DRIVEWAY 7-INCH	P	TREE PROTECTION
CS-5	CONCRETE SIDEWALK 5-INCH	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
	CURB RAMP, TYPE X	X	TREE REMOVAL (CLEARING AND GRUBBING)
	TRAFFIC FLOW		
	PROPOSED INLET		
	PROPOSED STORM SEWER MANHOLE OR EXISTING STORM SEWER MANHOLE TO REMAIN		
	CURB RAMP DETECTABLE WARNING FIELD		
	DRAINAGE FLOW ARROW		
//////	SAWING ASPHALT		
XXXXX	SAWING CONCRETE		
------	SLOPE INTERCEPTS		

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN DETAILS	SHEET 23	E



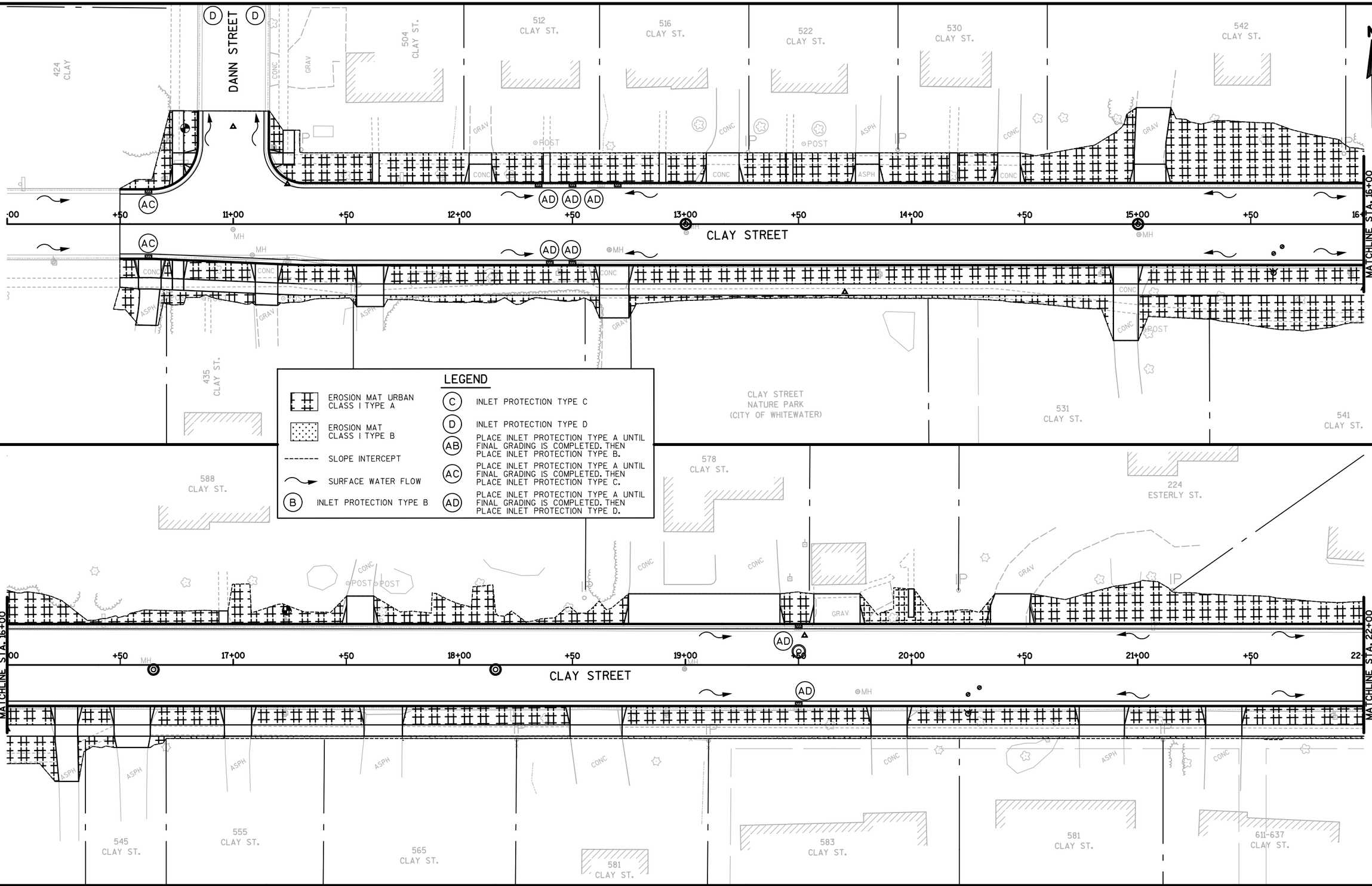
LEGEND

ASPH-D	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	BAD	6-INCHES BASE AGGREGATE DENSE 3/4-INCH
CD-7	CONCRETE DRIVEWAY 7-INCH	P	TREE PROTECTION
CS-5	CONCRETE SIDEWALK 5-INCH	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
	CURB RAMP, TYPE X	X	TREE REMOVAL (CLEARING AND GRUBBING)
	TRAFFIC FLOW		
	PROPOSED INLET		
	PROPOSED STORM SEWER MANHOLE OR EXISTING STORM SEWER MANHOLE TO REMAIN		
	CURB RAMP DETECTABLE WARNING FIELD		
	DRAINAGE FLOW ARROW		
//////	SAWING ASPHALT		
XXXXX	SAWING CONCRETE		
------	SLOPE INTERCEPTS		

PD-600 PLAN DETAIL POINTS

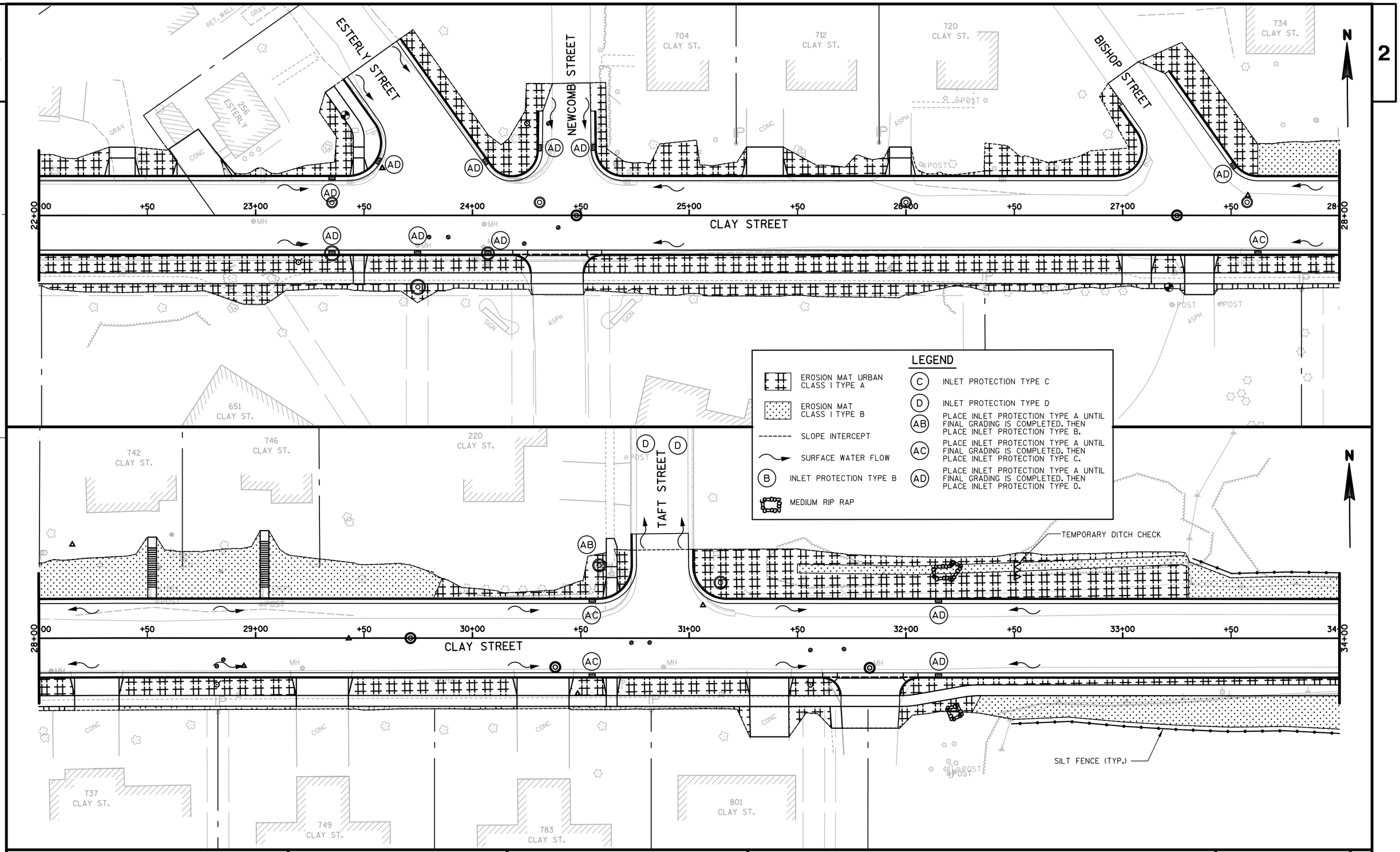
POINT NO.	CLAY STREET STATION	CLAY STREET OFFSET	ELEV.	Y	X	REMARKS
PD600	41+66.51	-29.07 'RT	MATCH	423,364.56	717,447.11	
PD601	41+66.51	-24.07 'RT	MATCH	423,359.89	717,445.32	
PD602	42+80.38	26.64 'RT	MATCH	423,293.95	717,551.43	
PD603	42+80.25	31.64 'RT	MATCH	423,289.00	717,552.13	

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN DETAILS	SHEET 24	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	EROSION CONTROL	SHEET	E

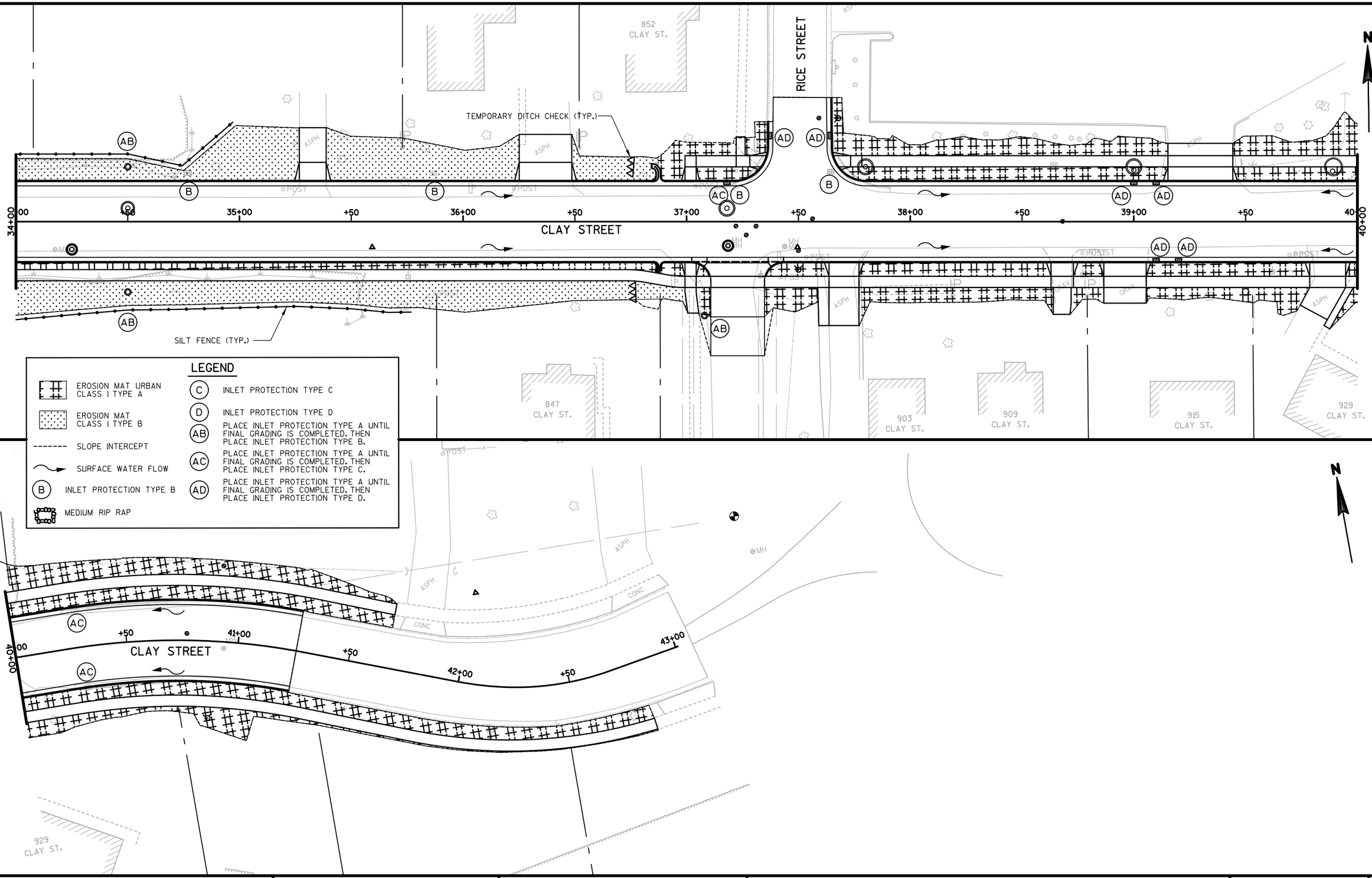
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\022001_ec.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	EROSION CONTROL	SHEET E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\022002_ec.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

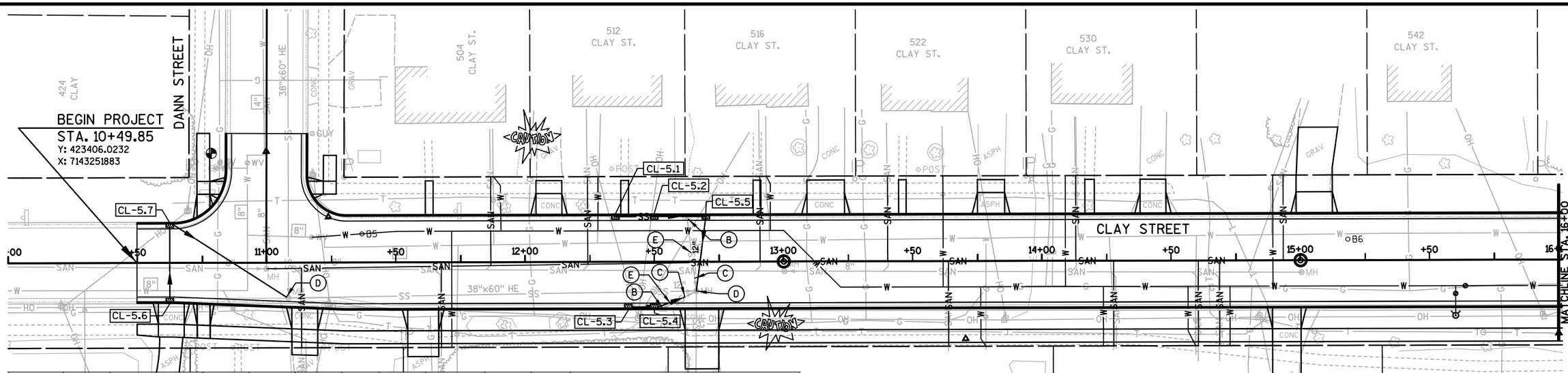


LEGEND

- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- (B) INLET PROTECTION TYPE B
- MEDIUM RIP RAP
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE D.

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	EROSION CONTROL	SHEET	E

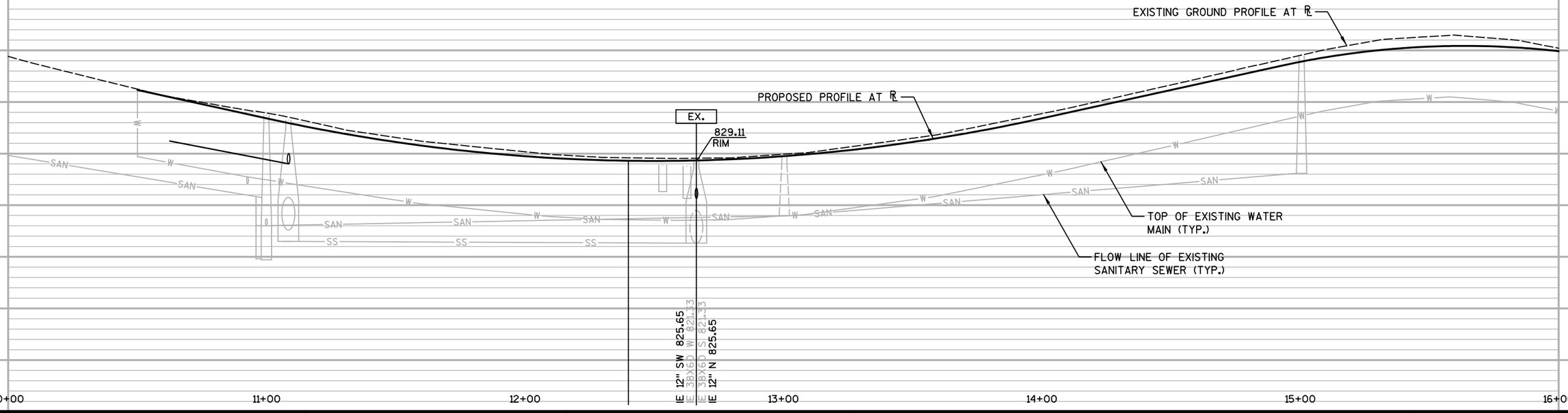
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\022003_ec.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



STRUCT NO.	STATION	OFFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)
CL-5.5	12+70	17.5'L	29	EX.	2X3-FT	H-S	-	-	828.87	828.04	2.24	12	825.8	825.65	29	0.52%
CL-5.4	12+50	17.5'R	17	EX.	2X3-FT	H-S	-	-	828.85	828.02	2.28	12	825.74	825.65	17	0.53%
CL-5.3	12+40	17.5'R	10	CL-5.4	2X3-FT	H-S	-	-	828.86	828.03	2.24	12	825.79	825.74	10	0.50%
CL-5.2	12+50	17.5'L	20	CL-5.5	2X3-FT	H-S	-	-	828.85	828.02	2.15	12	825.87	825.8	20	0.35%
CL-5.1	12+35	17.5'L	15	CL-5.2	2X3-FT	H-S	-	-	828.87	828.04	2.095	12	825.945	825.87	15	0.50%
CL-5.6	10+62.53	14.7'R	29.4	CL-5.7	2X3-FT	H-S	-	-	835.01	834.18	2.68	12	831.5	831.21	29	1.00%
CL-5.7	10+62.53	14.7'L	53.9	EX.	2X3-FT	H-S	-	-	835.31	834.48	3.27	12	831.21	829	54	4.09%

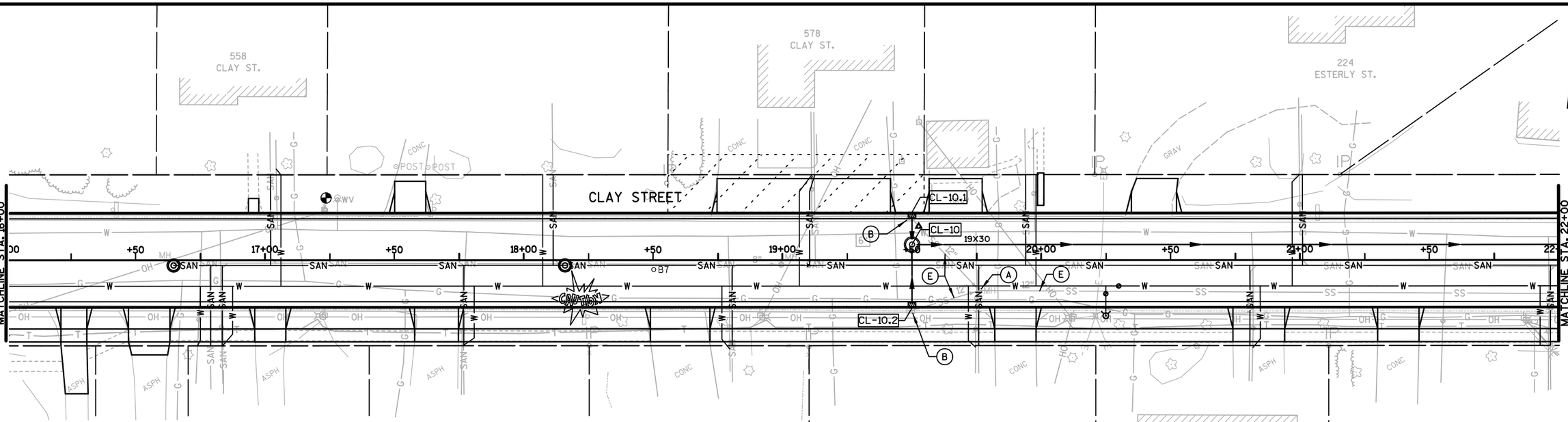
STORM SEWER REMOVAL LEGEND

- (A) REMOVING MANHOLES
- (B) REMOVING INLETS
- (C) CONCRETE COLLARS FOR PIPE
- (D) ADJUSTING MANHOLE COVERS
- (E) REMOVING STORM SEWER (12"-19"x30")
- (G) RECONNECT STORM SEWER LATERAL



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	STORM SEWER PLAN	SHEET E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\022501_ss.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

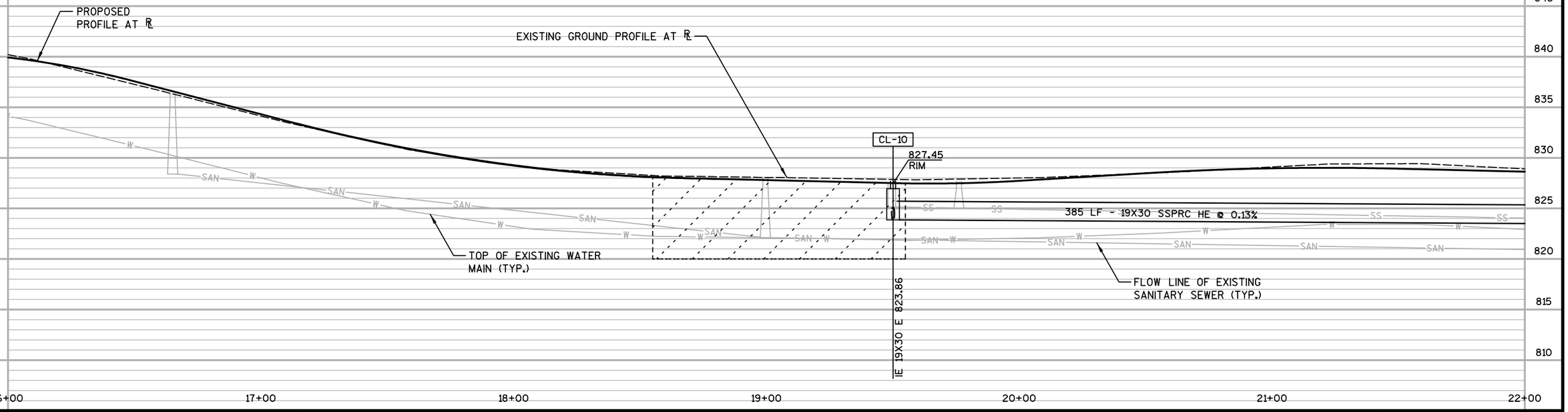


STRUCT NO.	STATION	OFFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)
CL-10.2	19+50.11	17.5'R	23.5	CL-10	2X3-FT	H-S	-	-	827.12	826.29	2.31	12	823.98	823.86	24	0.50%
CL-10.1	19+50.11	17.5'L	11.5	CL-10	2X3-FT	H-S	-	-	827.12	826.29	2.37	15	823.92	823.86	12	0.50%
CL-10	19+50.11	6'L	385	CL-15	-	-	5-FT	J	827.45	826.20	2.34	19x30	823.86	823.36	385	0.13%

STORM SEWER REMOVAL LEGEND

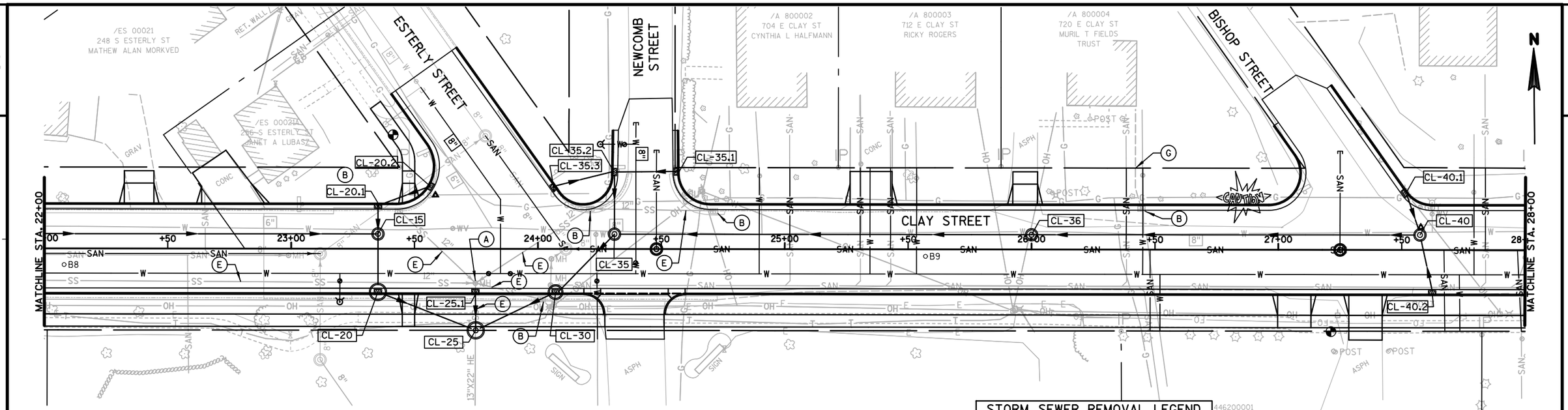
- (A) REMOVING MANHOLES
- (B) REMOVING INLETS
- (C) CONCRETE COLLARS FOR PIPE
- (D) ADJUSTING MANHOLE COVERS
- (E) REMOVING STORM SEWER (12"-19"x30")
- (G) RECONNECT STORM SEWER LATERAL

APPROXIMATE LIMITS OF CONTAMINATED SOIL



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	STORM SEWER PLAN	SHEET	E

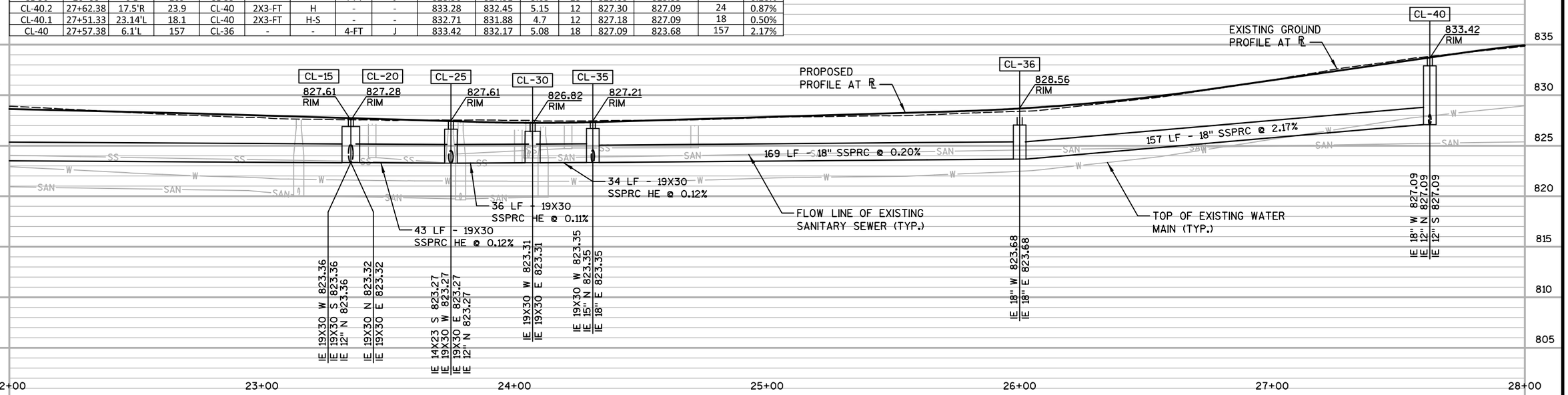
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\022502_ss.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41



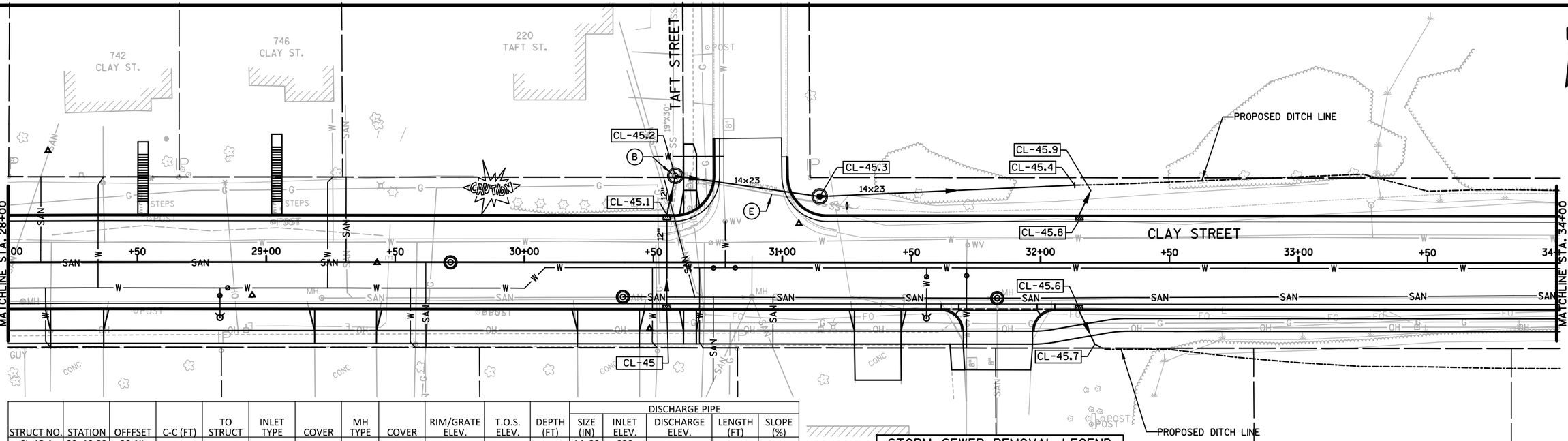
STRUCT NO.	STATION	OFFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE				
												SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	LENGTH (FT)	SLOPE (%)
CL-15	23+35.19	6'L	24	CL-20	-	-	6-FT	J	827.61	826.36	3	19x30	823.36	823.32	24	0.17%
CL-20.2	23+56.31	25.3'L	22.5	CL-20.1	2X3-FT	H-S	-	-	826.94	826.11	2.23	12	823.88	823.65	23	1.00%
CL-20.1	23+35.21	17.5'L	11.5	CL-15	2X3-FT	H	-	-	827.28	826.45	2.8	12	823.65	823.36	12	2.42%
CL-20	23+35.19	17.5'R	42.5	CL-25	-	H	5-FT	-	827.28	826.45	3.13	19x30	823.32	823.27	43	0.12%
CL-25	23+74.83	33'R	-	-	-	-	6-FT	J	827.61	826.36	3.11	18	823.25	-	8	-
CL-25.1	23+74.69	17.5'R	15.5	CL-25	2X3-FT	H-S	-	-	827.00	826.17	2.84	12	823.33	823.25	16	0.50%
CL-30	24+07.16	17.5'R	36	CL-25	-	H	5-FT	-	826.82	825.99	2.68	19x30	823.31	823.27	36	0.11%
CL-35.3	24+06.38	25.0'L	25	CL-35.2	2X3-FT	H-S	-	-	826.67	825.84	2.24	12	823.6	823.47	25	0.52%
CL-35.2	24+30.8	31.2'L	25	CL-35	2X3-FT	H	-	-	827.05	826.22	2.75	15	823.47	823.35	25	0.48%
CL-35.1	24+56.17	31.4'L	25.5	CL-35.2	2X3-FT	H-S	-	-	826.94	826.11	2.51	12	823.60	823.47	26	0.50%
CL-35	24+31	6'L	33.5	CL-30	-	-	4-FT	J	827.21	825.96	2.61	19x30	823.35	823.31	34	0.12%
CL-36	26+00	6'L	169	CL-35	-	-	4-FT	J	828.56	827.31	3.63	18	823.68	823.35	169	0.20%
CL-40.2	27+62.38	17.5'R	23.9	CL-40	2X3-FT	H	-	-	833.28	832.45	5.15	12	827.30	827.09	24	0.87%
CL-40.1	27+51.33	23.14'L	18.1	CL-40	2X3-FT	H-S	-	-	832.71	831.88	4.7	12	827.18	827.09	18	0.50%
CL-40	27+57.38	6.1'L	157	CL-36	-	-	4-FT	J	833.42	832.17	5.08	18	827.09	823.68	157	2.17%

STORM SEWER REMOVAL LEGEND

- (A) REMOVING MANHOLES
- (B) REMOVING INLETS
- (C) CONCRETE COLLARS FOR PIPE
- (D) ADJUSTING MANHOLE COVERS
- (E) REMOVING STORM SEWER (12"-19"x30")
- (G) RECONNECT STORM SEWER LATERAL



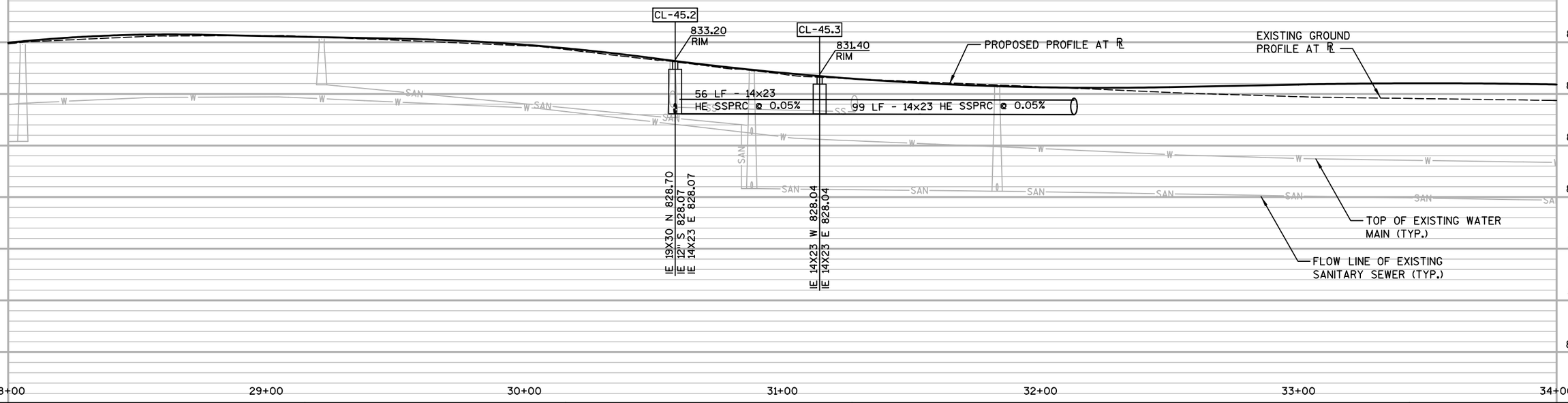
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	STORM SEWER PLAN	SHEET 30 E



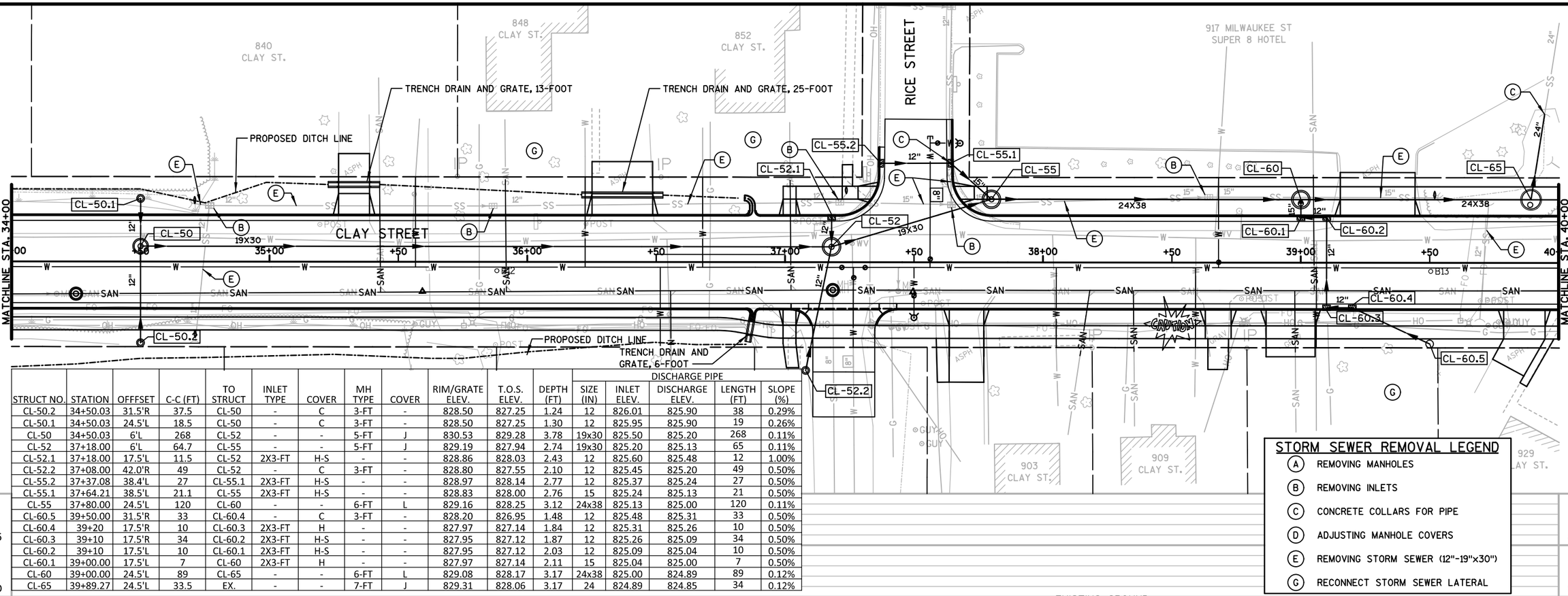
STRUCT NO.	STATION	OFFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)
CL-45.4	32+13.22	30.1'L	-	-	-	-	-	-	-	-	-	14x23	828	-	-	-
CL-45.3	31+14.39	25.6'L	99	CL-45.4	-	-	5-FT	J	831.4	830.15	2.11	14x23	828.04	827.995	99	0.05%
CL-45.2	30+58.44	33.6'L	56	CL-45.3	-	C	5-FT	-	833.2	831.95	3.88	14x23	828.07	828.04	56	0.05%
CL-45.1	30+55.23	17.5'L	16.7	CL-45.2	2X3-FT	H	-	-	832.84	832.01	3.89	12	828.12	828.07	17	0.29%
CL-45	30+55.23	17.5'R	34.8	CL-45.1	2X3-FT	H	-	-	832.84	832.01	3.79	12	828.22	828.12	35	0.29%
CL-45.6	32+15.00	17.5'R	14	CL-45.7	2X3-FT	H-S	-	-	829.88	829.55	1.2	12	828.35	828.21	14	1.00%
CL-45.7	32+21.10	31.50'R	-	-	-	-	-	-	-	-	-	12	828.21	-	-	-
CL-45.8	32+15.00	17.5'L	10.5	CL-45.9	2X3-FT	H-S	-	-	829.88	829.55	1.2	12	828.35	828.21	11	1.27%
CL-45.9	32+19.45	28.00'L	-	-	-	-	-	-	-	-	-	12	828.21	-	-	-

STORM SEWER REMOVAL LEGEND

- (A) REMOVING MANHOLES
- (B) REMOVING INLETS
- (C) CONCRETE COLLARS FOR PIPE
- (D) ADJUSTING MANHOLE COVERS
- (E) REMOVING STORM SEWER (12"-19"x30")
- (G) RECONNECT STORM SEWER LATERAL



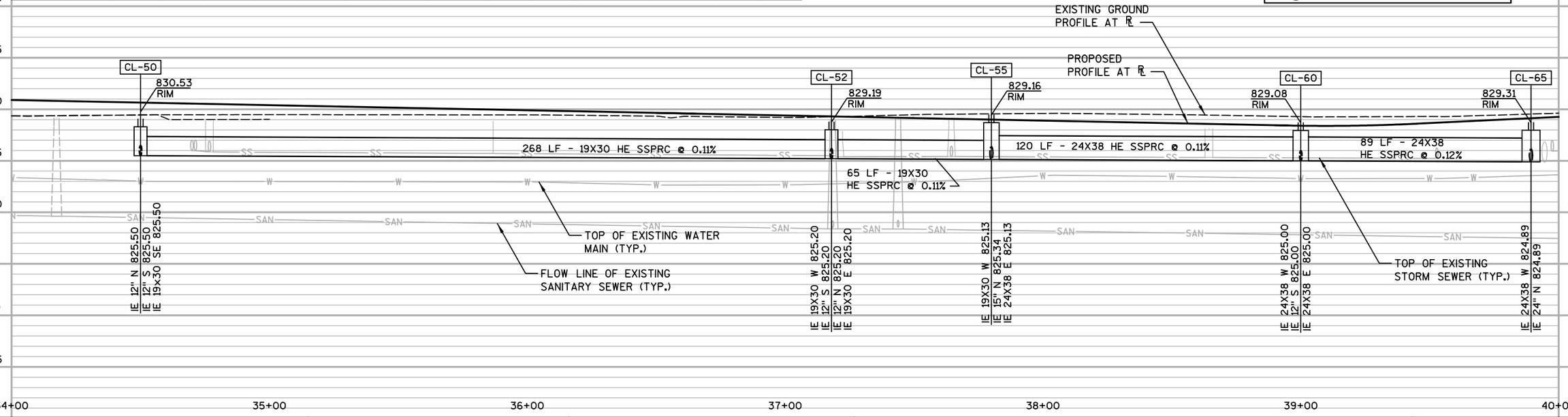
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	STORM SEWER PLAN	SHEET 31	E



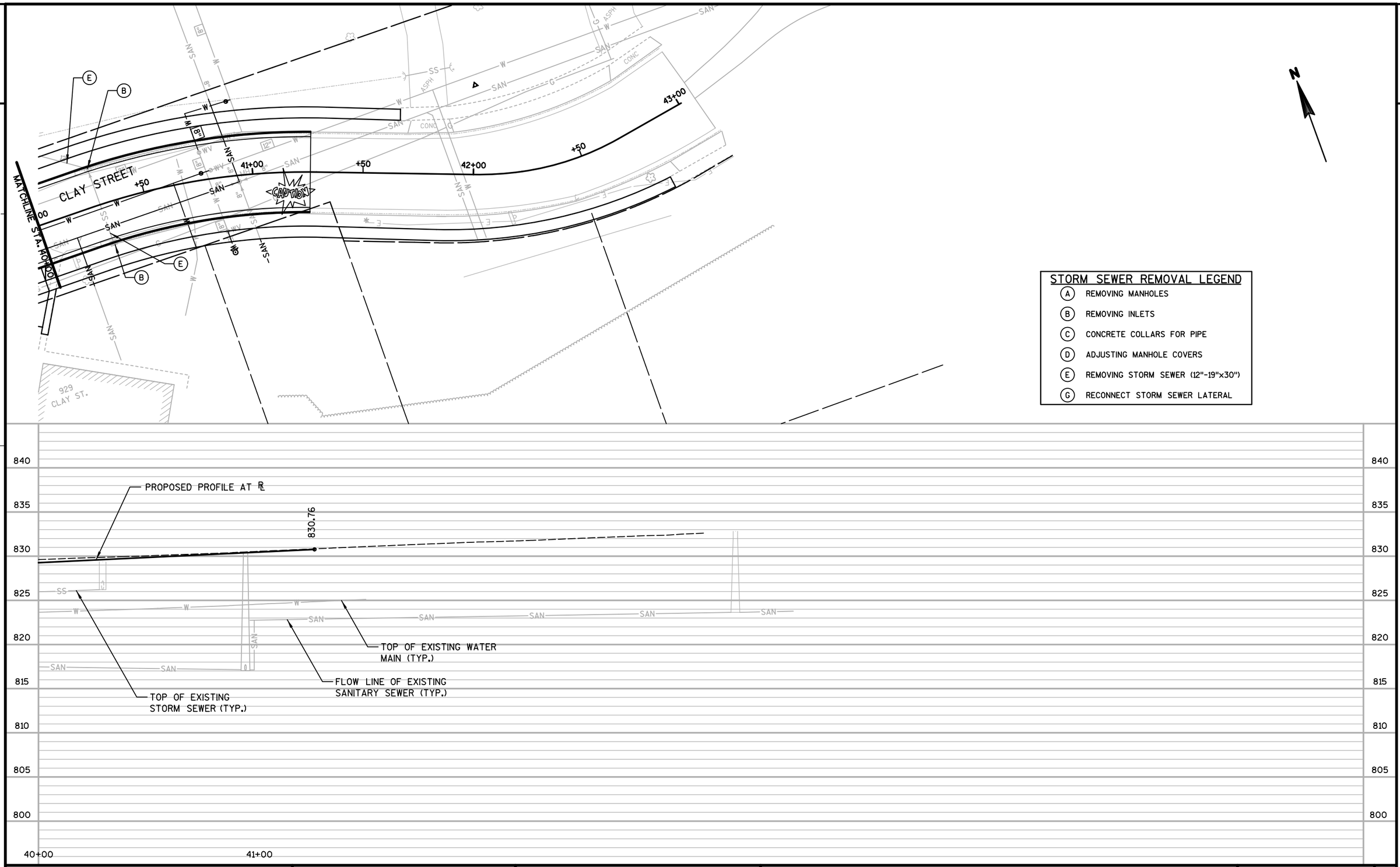
STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	LENGTH (FT)	SLOPE (%)
CL-50.2	34+50.03	31.5'R	37.5	CL-50	-	C	3-FT	-	828.50	827.25	1.24	12	826.01	825.90	38	0.29%
CL-50.1	34+50.03	24.5'L	18.5	CL-50	-	C	3-FT	-	828.50	827.25	1.30	12	825.95	825.90	19	0.26%
CL-50	34+50.03	6'L	268	CL-52	-	-	5-FT	J	830.53	829.28	3.78	19x30	825.50	825.20	268	0.11%
CL-52	37+18.00	6'L	64.7	CL-55	-	-	5-FT	J	829.19	827.94	2.74	19x30	825.20	825.13	65	0.11%
CL-52.1	37+18.00	17.5'L	11.5	CL-52	2X3-FT	H-S	-	-	828.86	828.03	2.43	12	825.60	825.48	12	1.00%
CL-52.2	37+08.00	42.0'R	49	CL-52	-	C	3-FT	-	828.80	827.55	2.10	12	825.45	825.20	49	0.50%
CL-55.2	37+37.08	38.4'L	27	CL-55.1	2X3-FT	H-S	-	-	828.97	828.14	2.77	12	825.37	825.24	27	0.50%
CL-55.1	37+64.21	38.5'L	21.1	CL-55	2X3-FT	H-S	-	-	828.83	828.00	2.76	15	825.24	825.13	21	0.50%
CL-55	37+80.00	24.5'L	120	CL-60	-	-	6-FT	L	829.16	828.25	3.12	24x38	825.13	825.00	120	0.11%
CL-60.5	39+50.00	31.5'R	33	CL-60.4	-	C	3-FT	-	828.20	826.95	1.48	12	825.48	825.31	33	0.50%
CL-60.4	39+20	17.5'R	10	CL-60.3	2X3-FT	H	-	-	827.97	827.14	1.84	12	825.31	825.26	10	0.50%
CL-60.3	39+10	17.5'R	34	CL-60.2	2X3-FT	H-S	-	-	827.95	827.12	1.87	12	825.26	825.09	34	0.50%
CL-60.2	39+10	17.5'L	10	CL-60.1	2X3-FT	H-S	-	-	827.95	827.12	2.03	12	825.09	825.04	10	0.50%
CL-60.1	39+00.00	17.5'L	7	CL-60	2X3-FT	H	-	-	827.97	827.14	2.11	15	825.04	825.00	7	0.50%
CL-60	39+00.00	24.5'L	89	CL-65	-	-	6-FT	L	829.08	828.17	3.17	24x38	825.00	824.89	89	0.12%
CL-65	39+89.27	24.5'L	33.5	EX.	-	-	7-FT	J	829.31	828.06	3.17	24	824.89	824.85	34	0.12%

STORM SEWER REMOVAL LEGEND

- (A) REMOVING MANHOLES
- (B) REMOVING INLETS
- (C) CONCRETE COLLARS FOR PIPE
- (D) ADJUSTING MANHOLE COVERS
- (E) REMOVING STORM SEWER (12"-19"x30")
- (G) RECONNECT STORM SEWER LATERAL

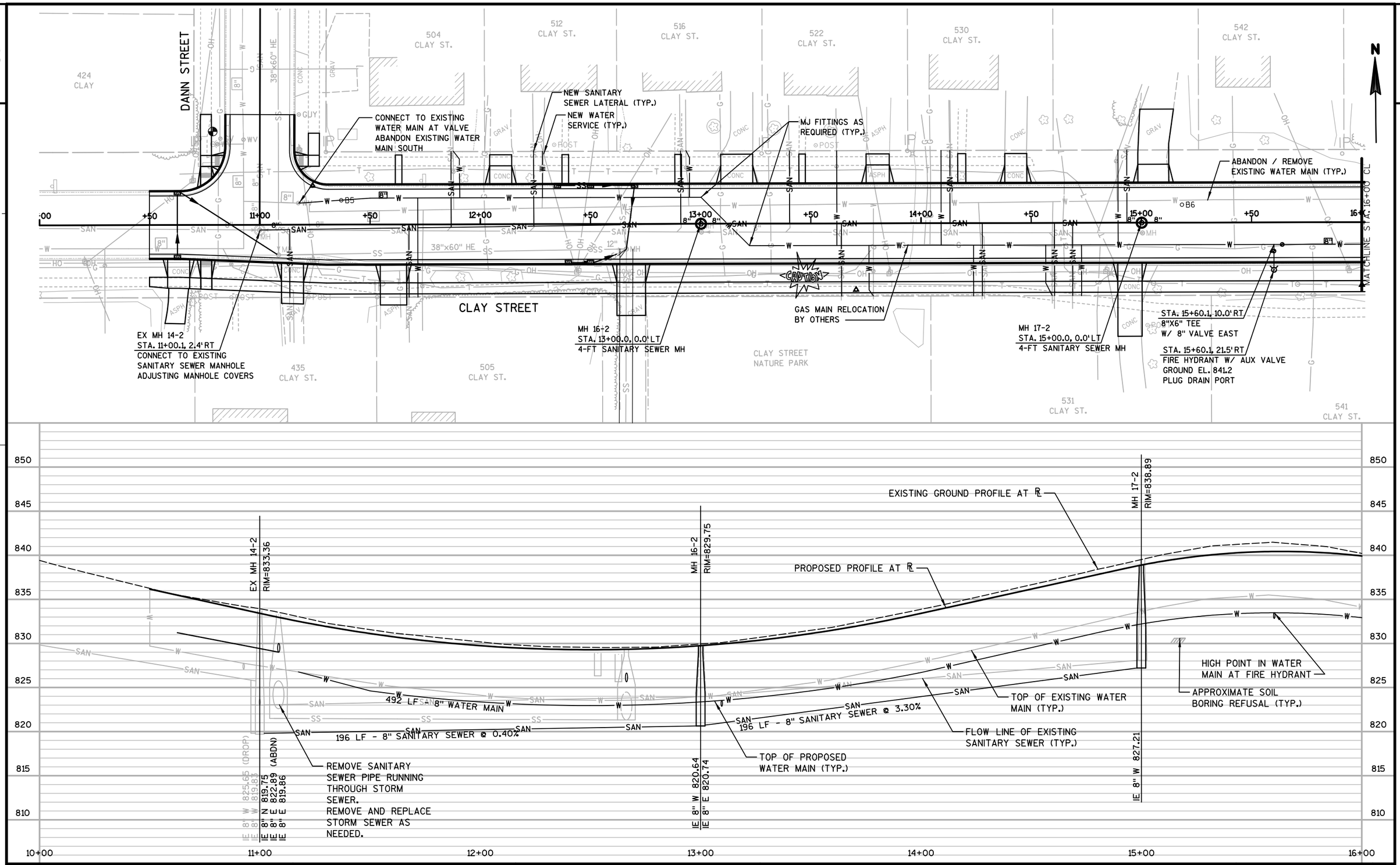


PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	STORM SEWER PLAN	SHEET 32	E

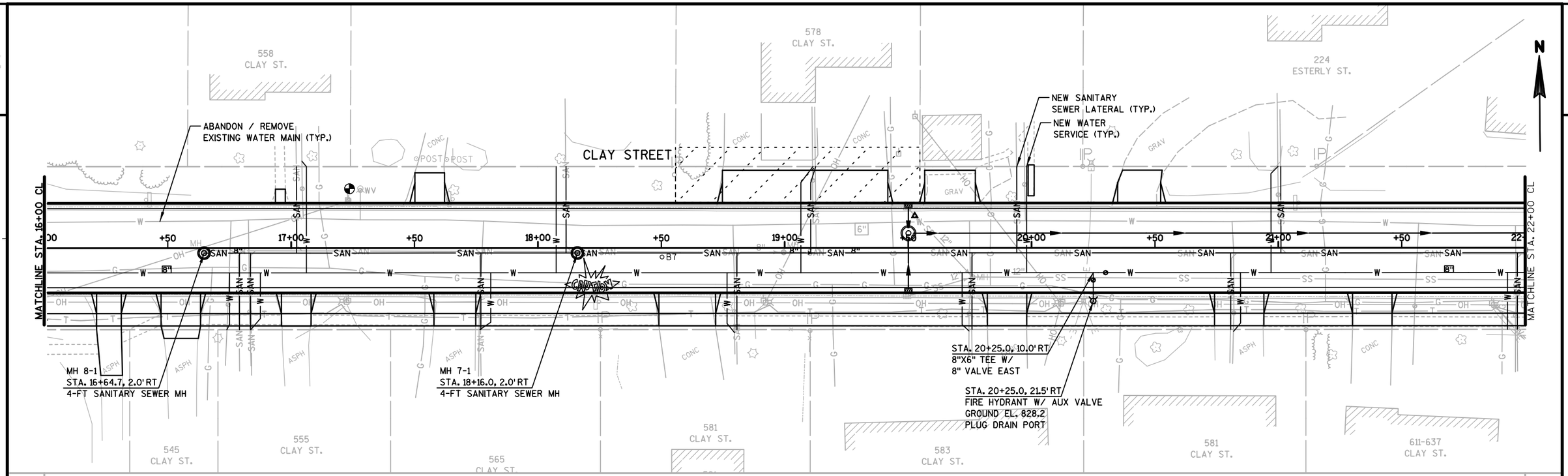


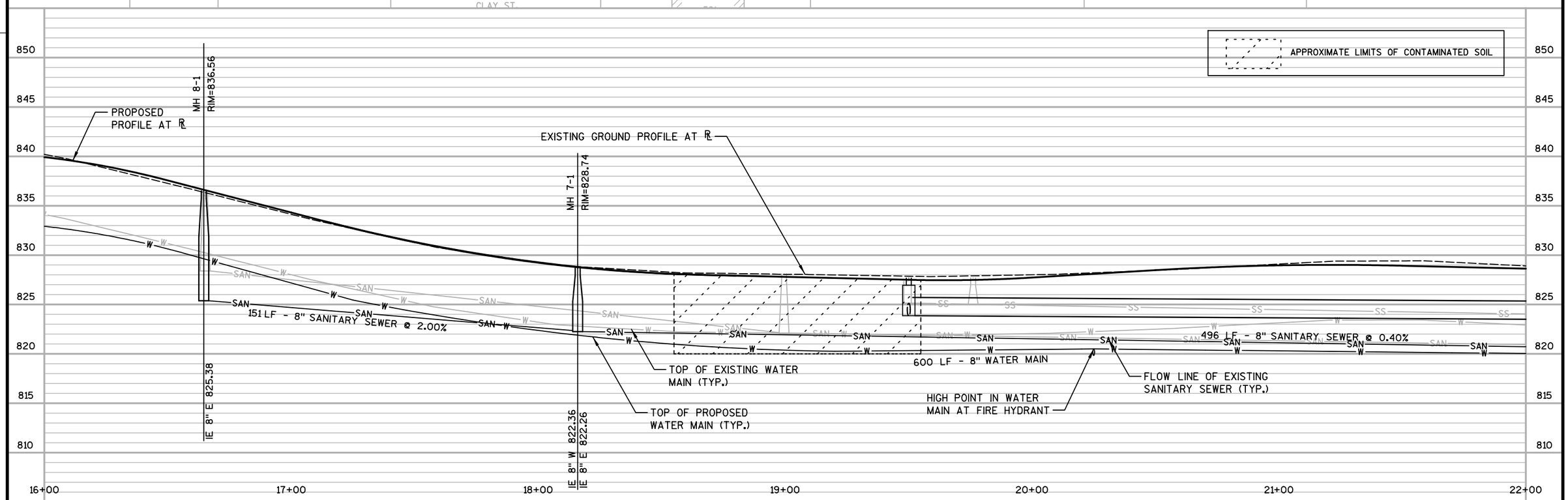
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	STORM SEWER PLAN	SHEET 33 E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\022506_ss.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

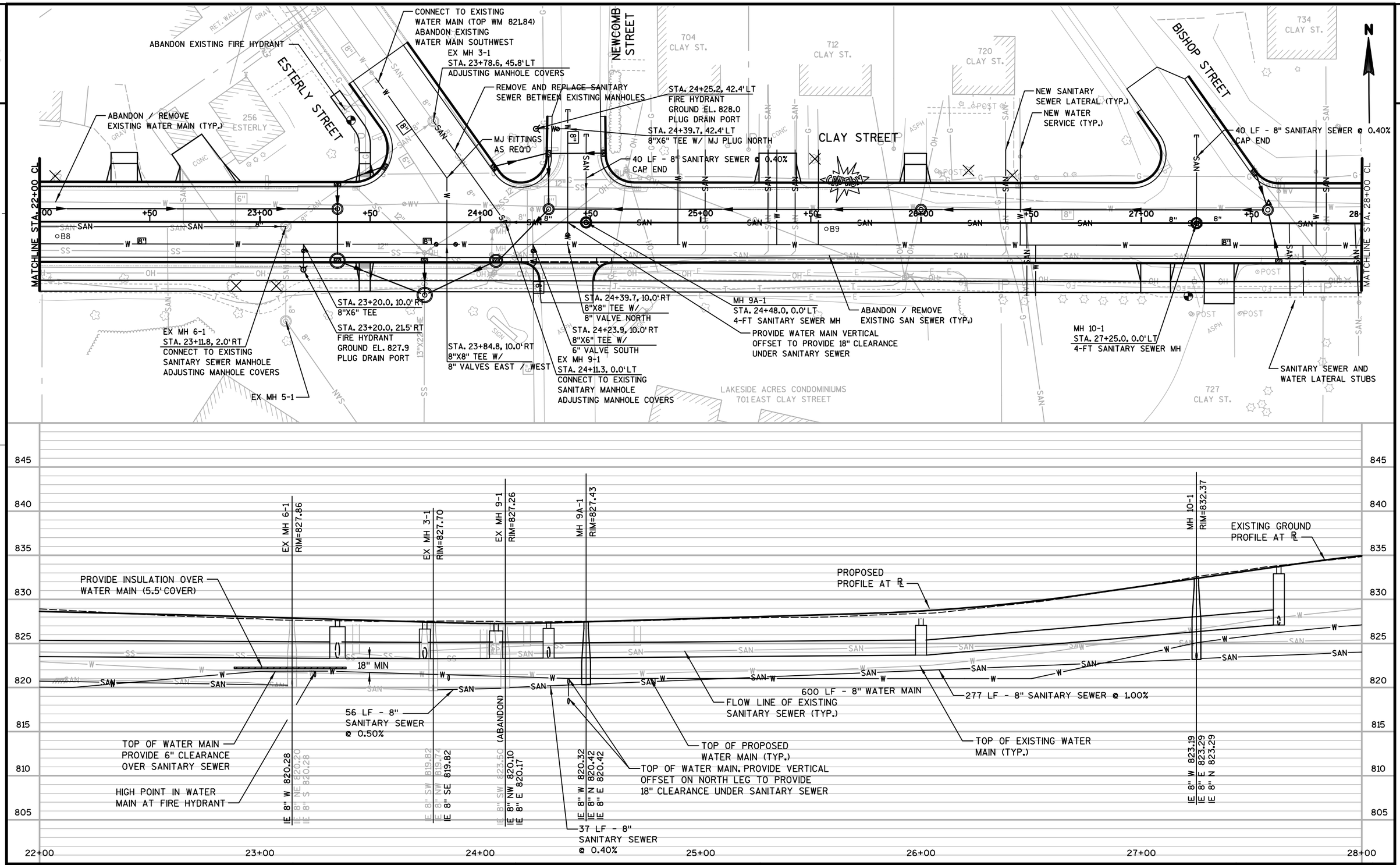


PROJECT NO: 3835-00-74	HWY: CLAY STREET	COUNTY: WALWORTH	UTILITY PLAN	SHEET 34	E

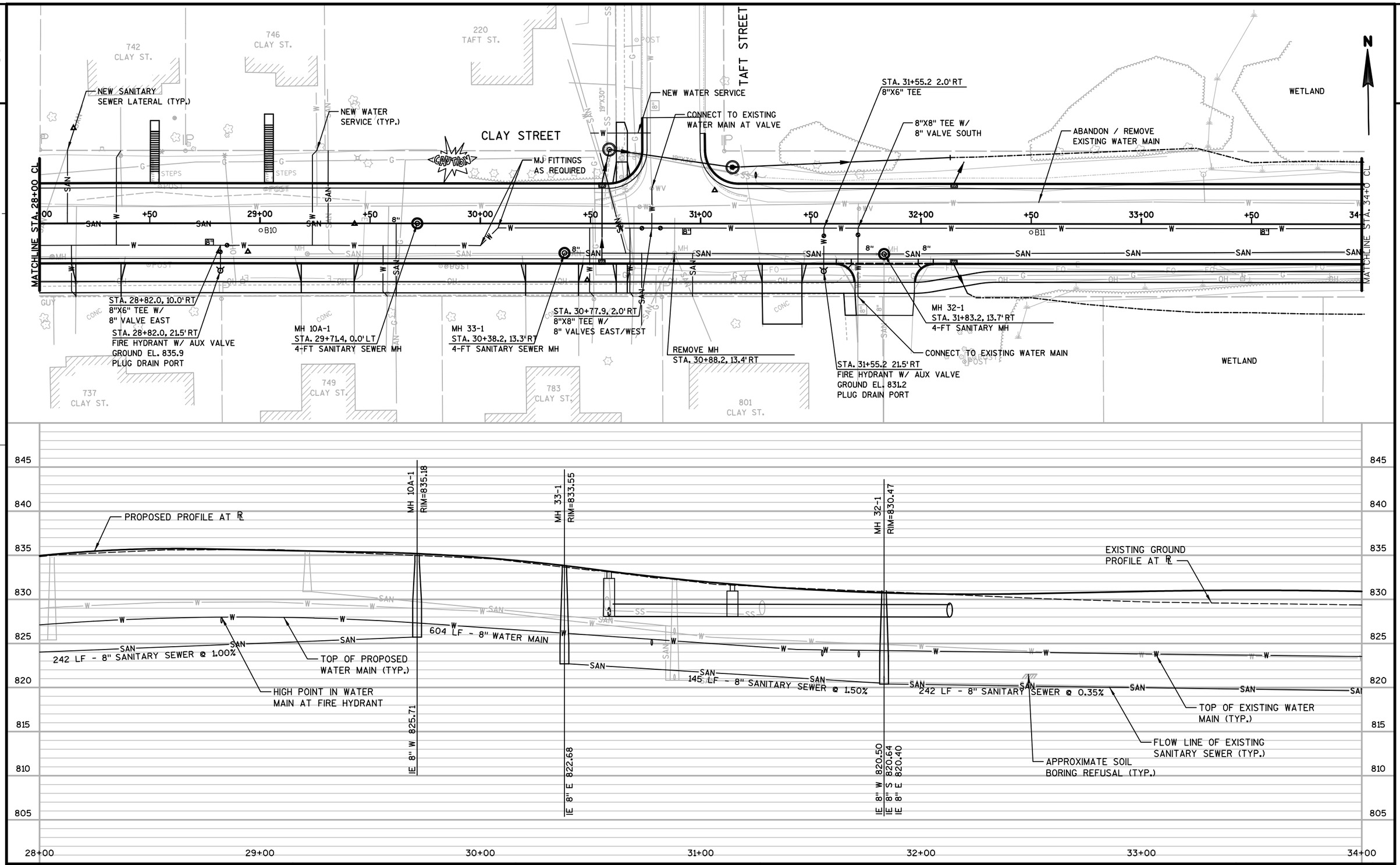




PROJECT NO: 3835-00-74	HWY: CLAY STREET	COUNTY: WALWORTH	UTILITY PLAN	SHEET 35	E

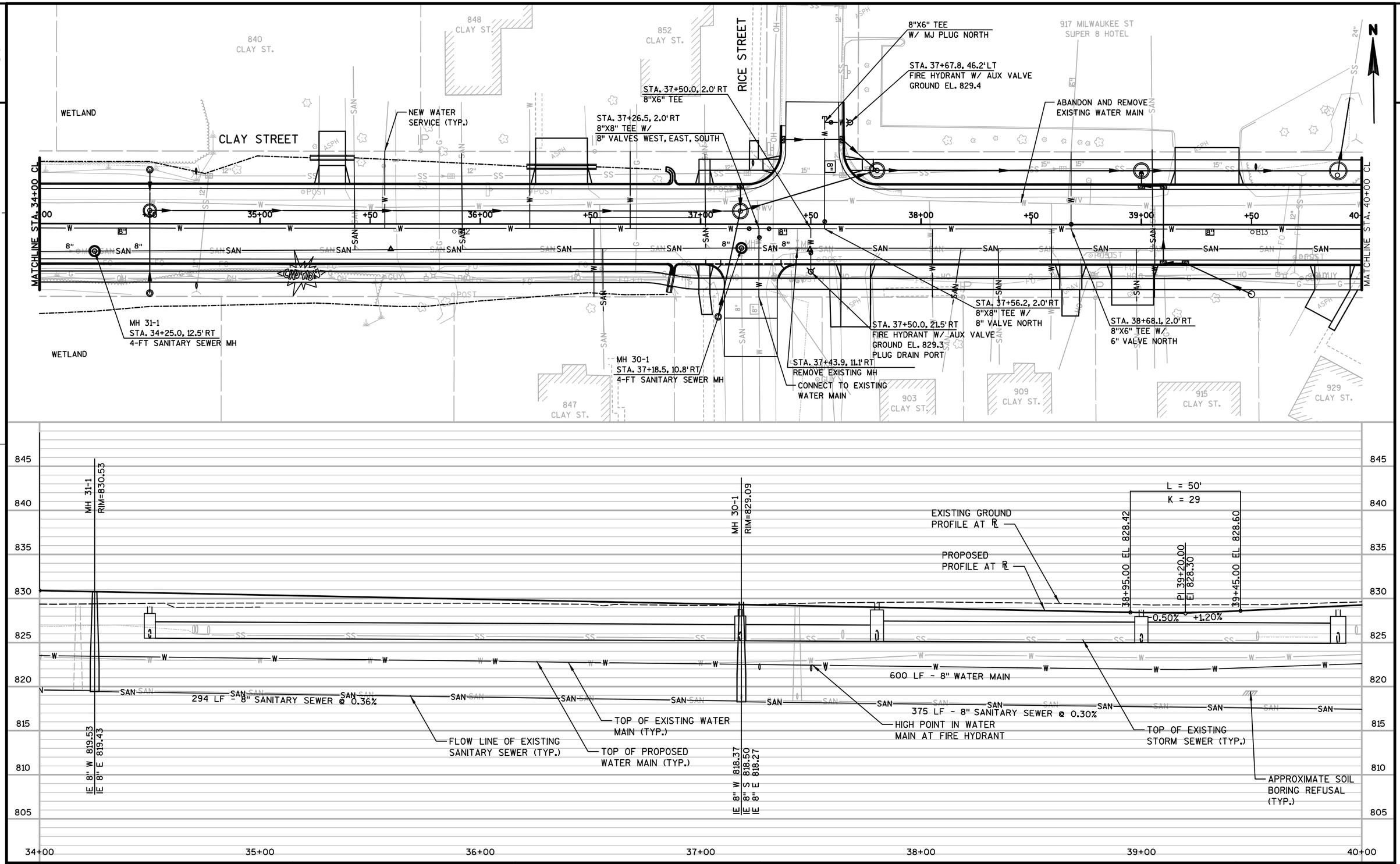


PROJECT NO: 3835-00-74	HWY: CLAY STREET	COUNTY: WALWORTH	UTILITY PLAN	SHEET 36	E

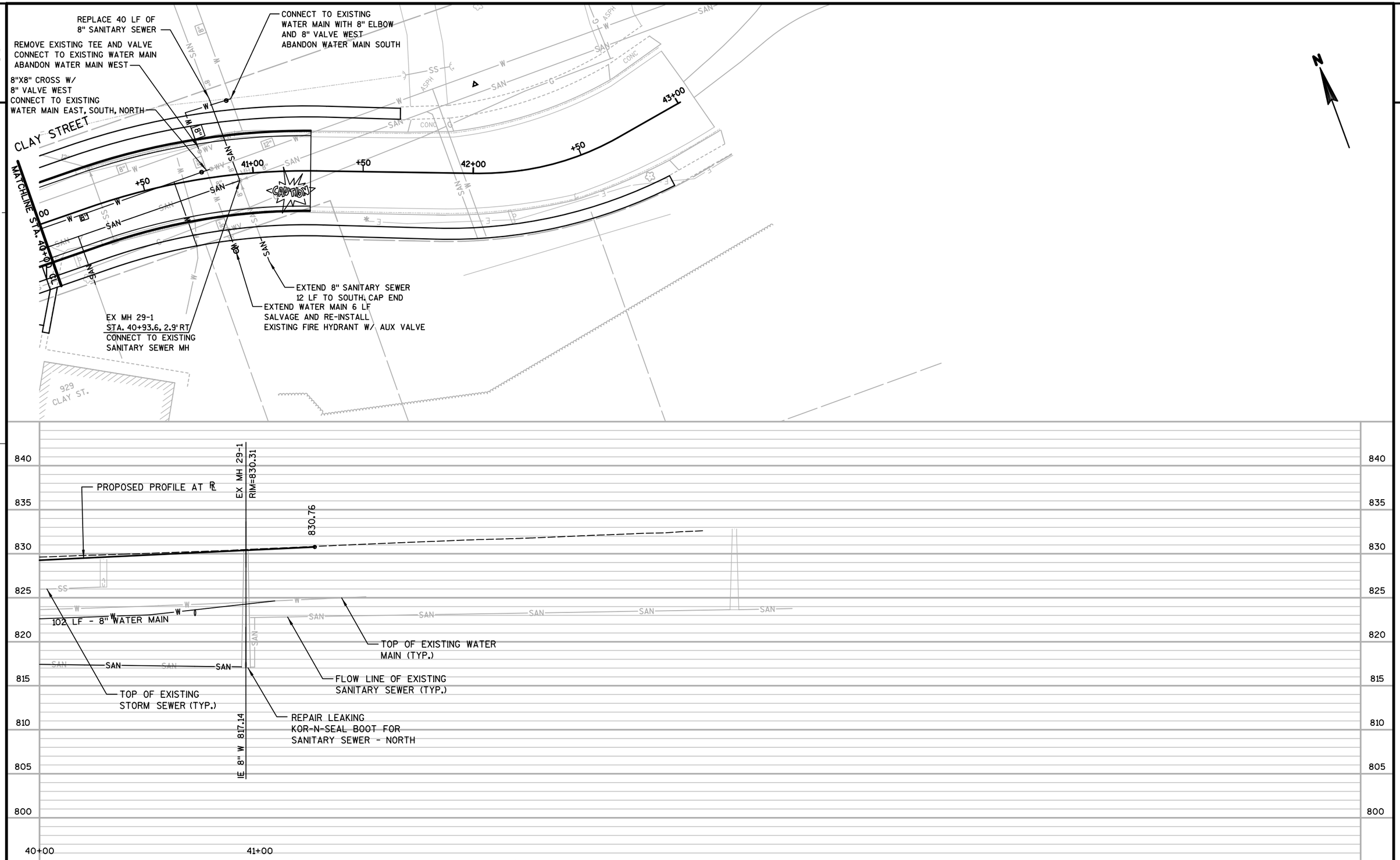


PROJECT NO: 3835-00-74	HWY: CLAY STREET	COUNTY: WALWORTH	UTILITY PLAN	SHEET	E

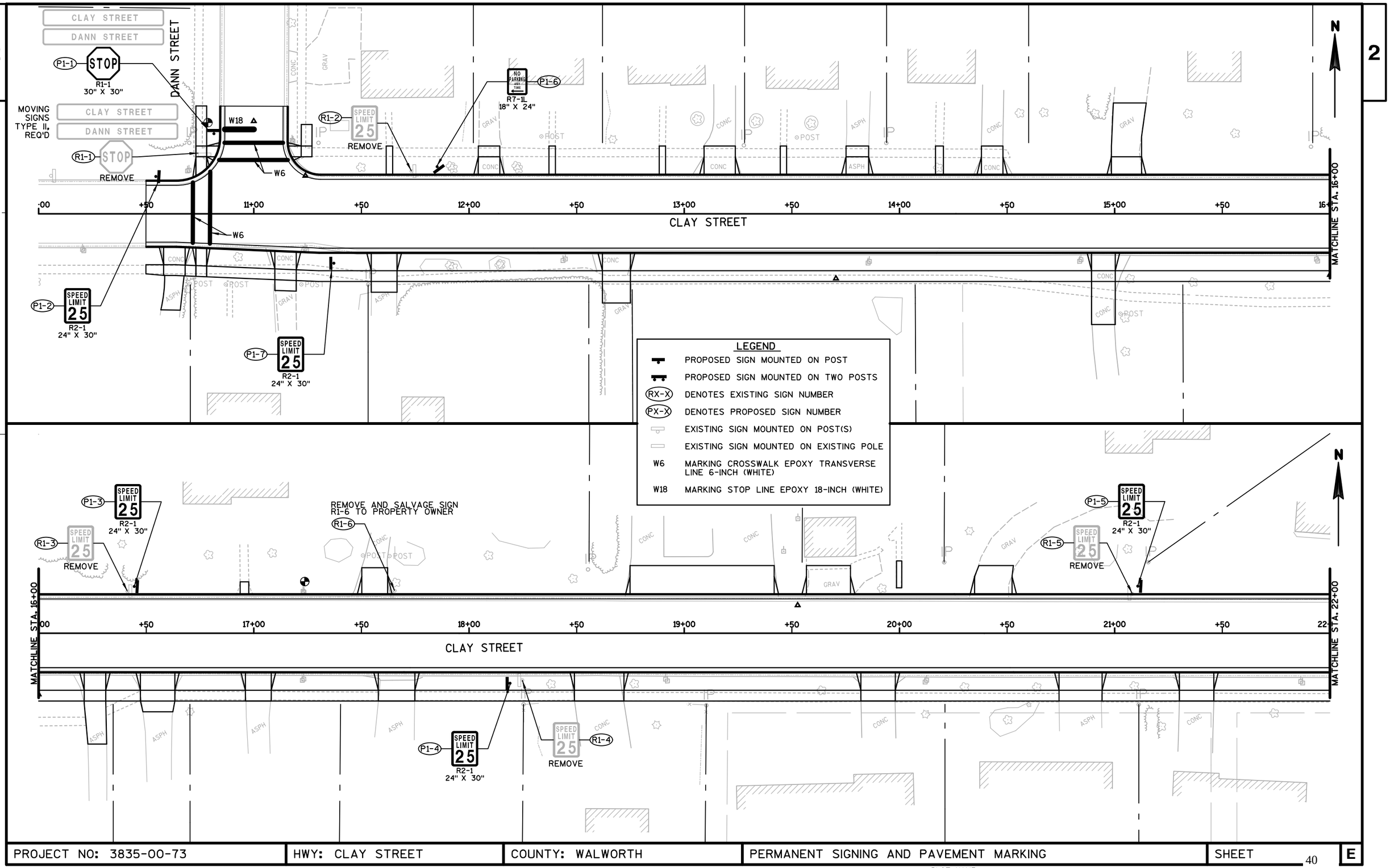
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\023004_up.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41



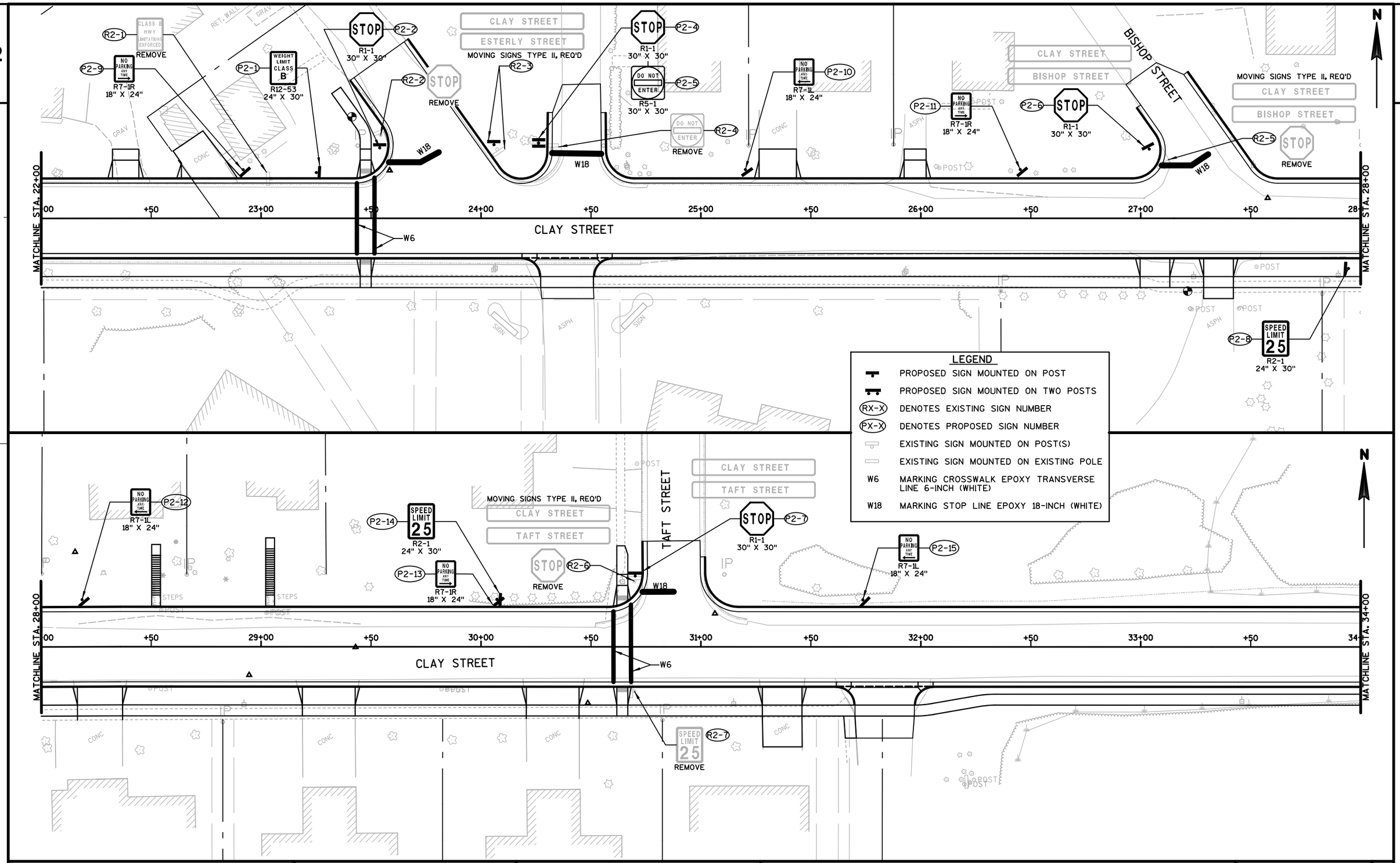
PROJECT NO: 3835-00-74	HWY: CLAY STREET	COUNTY: WALWORTH	UTILITY PLAN	SHEET 38	E



PROJECT NO: 3835-00-74	HWY: CLAY STREET	COUNTY: WALWORTH	UTILITY PLAN	SHEET 39	E

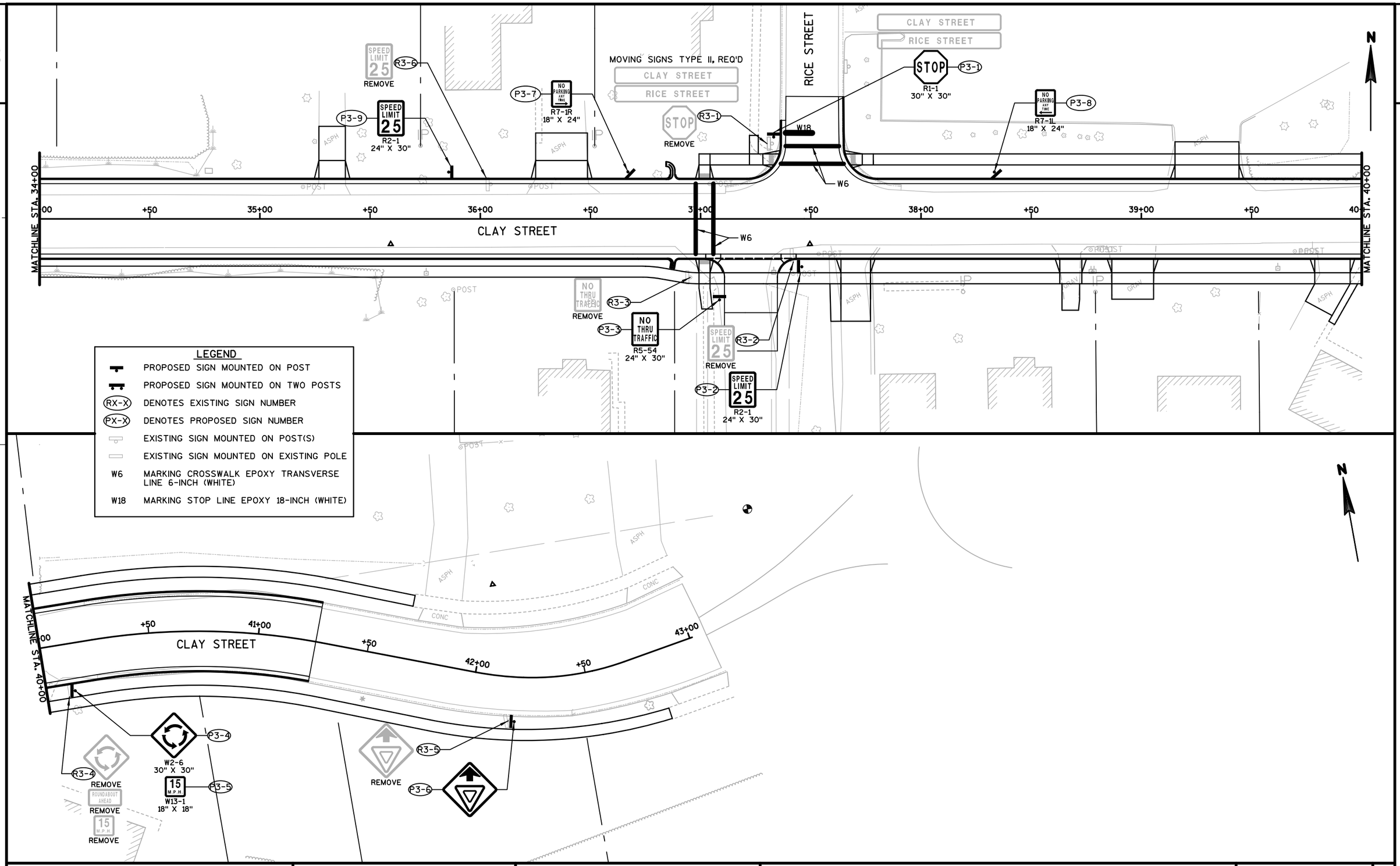


PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 40	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\024502_pm.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 42	E

GENERAL NOTES FOR TRAFFIC CONTROL

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCES OF OPERATION.

ROAD MACHINERY, TRUCK ENTRANCE, FLAGMEN AHEAD, ETC., SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED WHEN THE ACTIVITY OR CONDITION DOES NOT EXIST. NO WARNING LIGHT SHALL BE USED WITH A COVERED SIGN.

LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES.

TYPE III BARRICADES MAY BE SUBSTITUTED FOR POST MOUNTED SIGNS IN SITUATIONS WHERE SIGN LOCATIONS ARE CONTINUALLY MOVING. (TEMPORARY SIGN SUPPORT MAY ALSO BE USED.)

DETAILS OF TRAFFIC CONTROL NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

STANDARD DETAIL DRAWING LEGEND

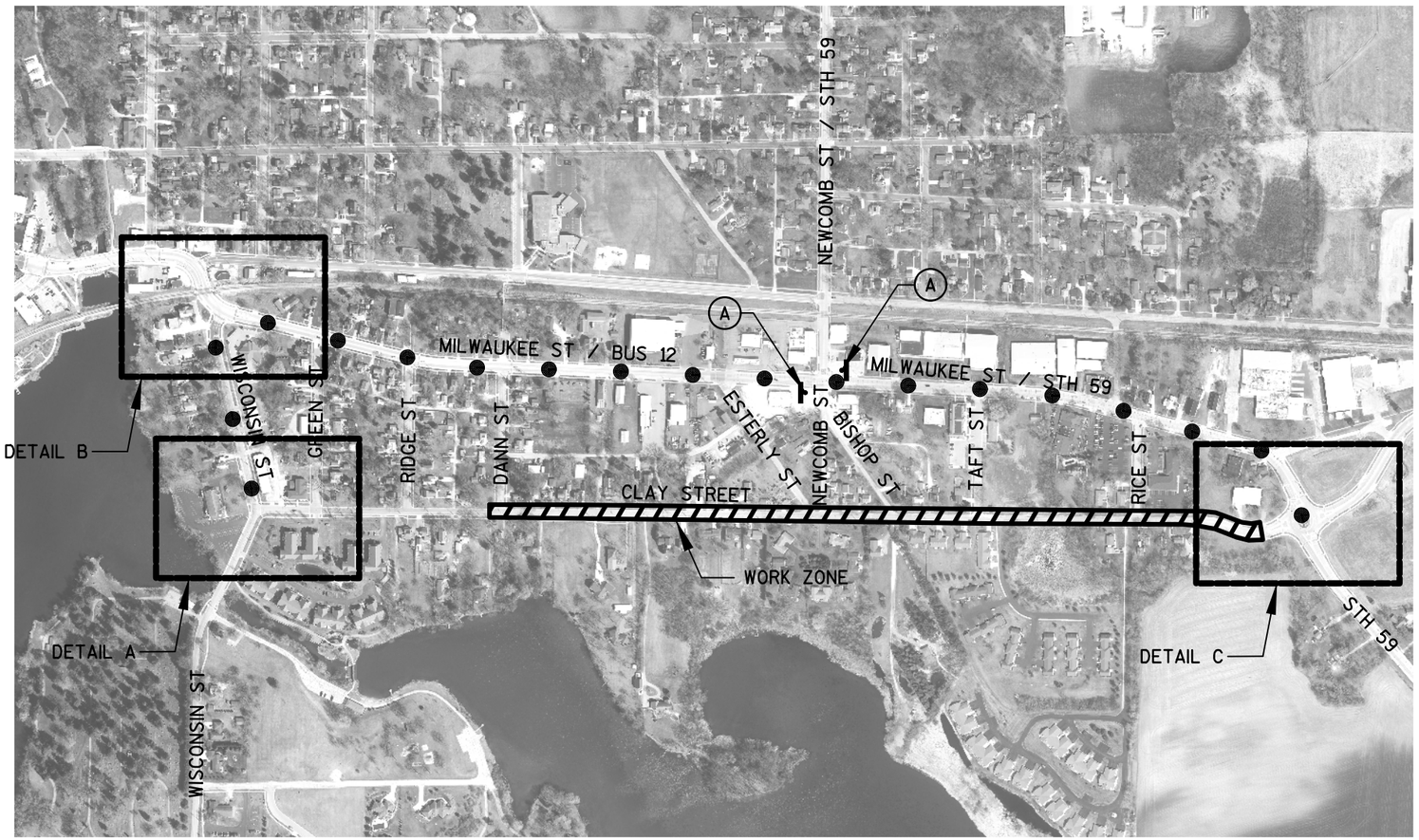
B&E USE "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAILS B AND E

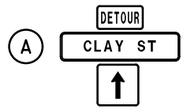
4 USE "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	ADVANCE WARNING SIGNING	SHEET 43	E

2

CITY OF WHITEWATER





SIGN LEGEND

DETOUR →	M4-9R 30" X 24"	DETOUR	M4-8 24"X12"
DETOUR ←	M4-9L 30" X 24"	END DETOUR	M4-8A 24"X18"
DETOUR ↰	M4-59L 30" x 30"	↑	M06-1 21"X21"
DETOUR ↱	M4-59R 30" x 30"	↖	M06-2 21" X 21"
		↖	M05-2R 21" X 21"

CLAY ST

REFLECTIVE BACKGROUND
APPROX. SIZE 30" X 12"
BACKGROUND - ORANGE
MESSAGE - BLACK
5" SERIES C LETTERS

LEGEND

DETOUR ROUTE

WOOD POST WITH ATTACHED SIGN

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ANY SIGN TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED.

ALL M3 SERIES SIGNS (NORTH, SOUTH, EAST, WEST) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	DETOUR SIGNING	SHEET 44	E

CITY OF WHITEWATER

DETAIL A

N

SIGN LEGEND

DETOUR →	M4-9R 30" X 24"	DETOUR	M4-8 24"X12"
DETOUR ←	M4-9L 30" X 24"	END DETOUR	M4-8A 24"X18"
DETOUR ↰	M4-59L 30" X 30"	↑	M06-1 21"X21"
DETOUR ↱	M4-59R 30" X 30"	↖	M06-2 21" X 21"
		↰	M05-2R 21" X 21"

CLAY ST

REFLECTIVE BACKGROUND
APPROX. SIZE 30" X 12"
BACKGROUND - ORANGE
MESSAGE - BLACK
5" SERIES C LETTERS

LEGEND

DETOUR ROUTE

WOOD POST WITH ATTACHED SIGN

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ANY SIGN TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED.

ALL M3 SERIES SIGNS (NORTH, SOUTH, EAST, WEST) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	DETOUR SIGNING	SHEET 45	E

CITY OF WHITEWATER

DETAIL B

N

SIGN LEGEND

DETOUR →	M4-9R 30" X 24"	DETOUR	M4-8 24"X12"
DETOUR ←	M4-9L 30" X 24"	END DETOUR	M4-8A 24"X18"
DETOUR ↰	M4-59L 30" x 30"	↑	M06-1 21"X21"
DETOUR ↱	M4-59R 30" x 30"	↖	M06-2 21" X 21"
		↖	M05-2R 21" X 21"

CLAY ST

REFLECTIVE BACKGROUND
APPROX. SIZE 30" X 12"
BACKGROUND - ORANGE
MESSAGE - BLACK
5" SERIES C LETTERS

LEGEND

DETOUR ROUTE

WOOD POST WITH ATTACHED SIGN

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

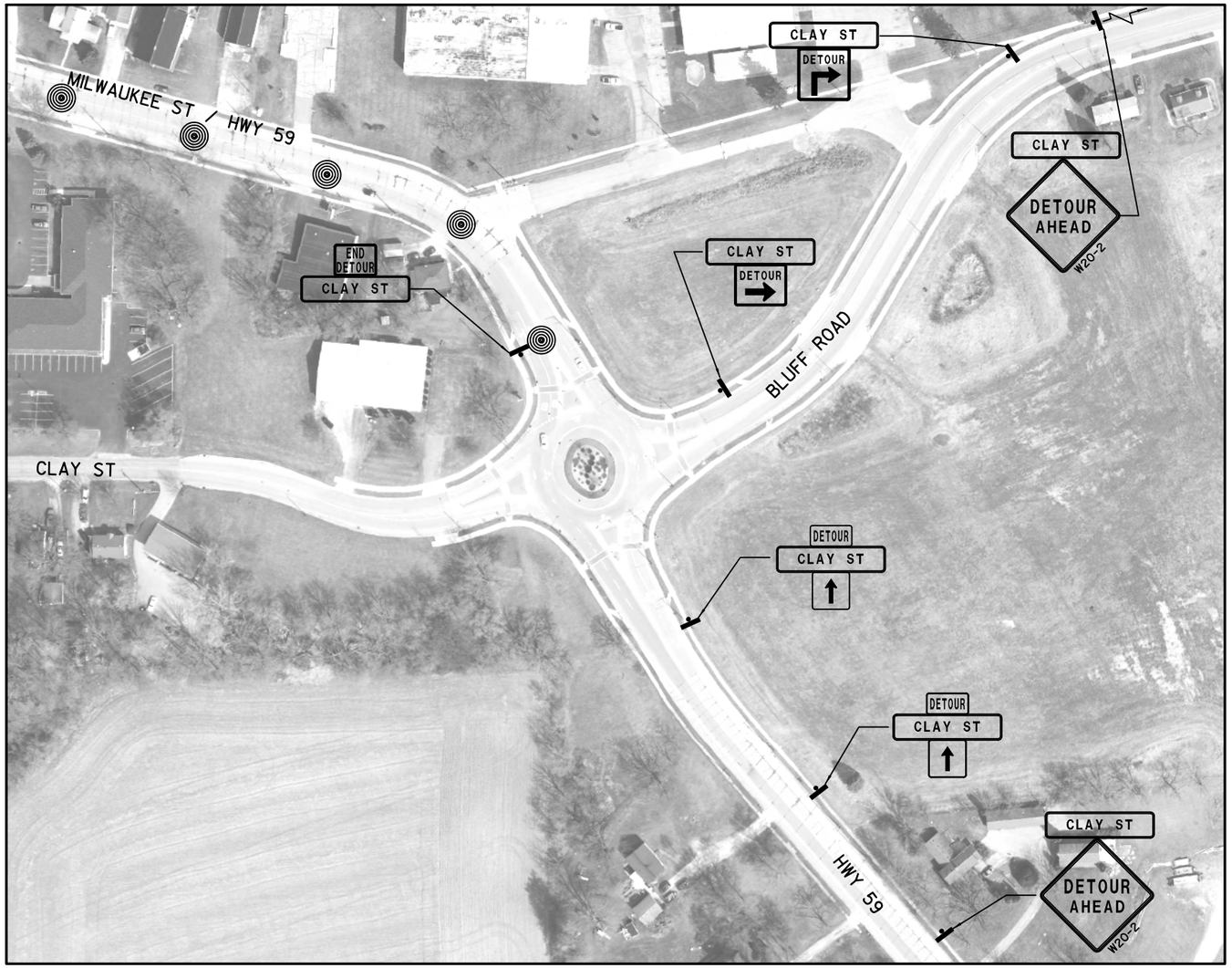
ANY SIGN TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED.

ALL M3 SERIES SIGNS (NORTH, SOUTH, EAST, WEST) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	DETOUR SIGNING	SHEET 46	E

CITY OF WHITEWATER



N

SIGN LEGEND

DETOUR	M4-9R 30" X 24"	DETOUR	M4-8 24"X12"
DETOUR	M4-9L 30" X 24"	END DETOUR	M4-8A 24"X18"
DETOUR	M4-59L 30" x 30"		M06-1 21"X21"
DETOUR	M4-59R 30" x 30"		M06-2 21" X 21"
			M05-2R 21" X 21"

CLAY ST

REFLECTIVE BACKGROUND
APPROX. SIZE 30" X 12"
BACKGROUND - ORANGE
MESSAGE - BLACK
5" SERIES C LETTERS

LEGEND

DETOUR ROUTE

WOOD POST WITH ATTACHED SIGN

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

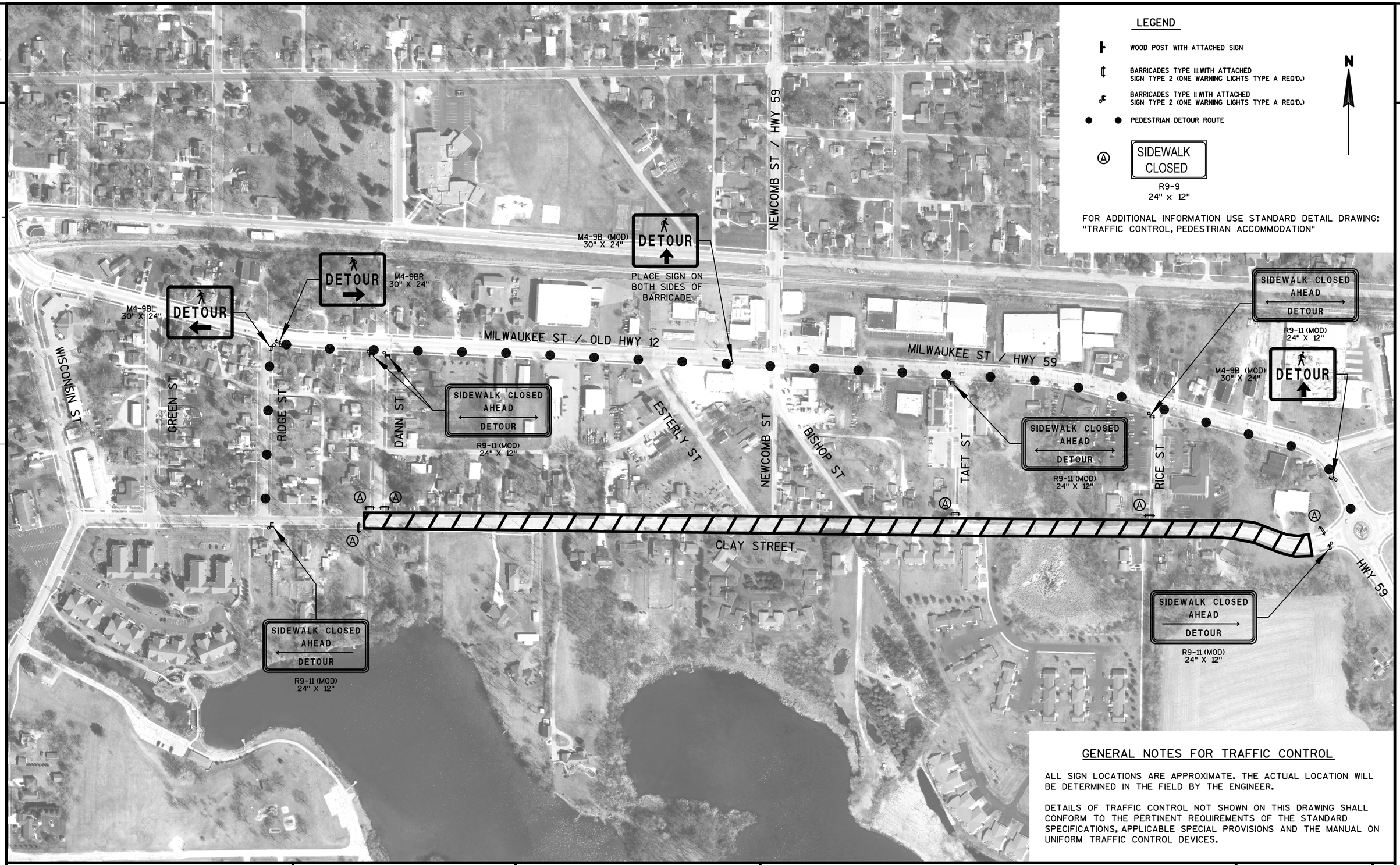
ANY SIGN TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED.

ALL M3 SERIES SIGNS (NORTH, SOUTH, EAST, WEST) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

DETAIL C

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	DETOUR SIGNING	SHEET 47	E



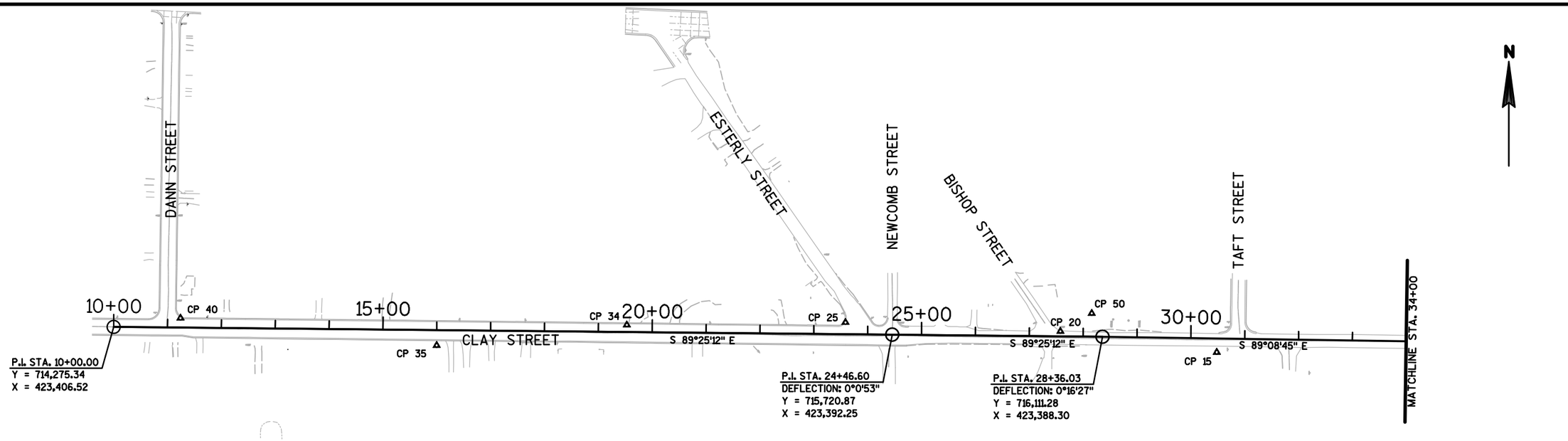
GENERAL NOTES FOR TRAFFIC CONTROL

ALL SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

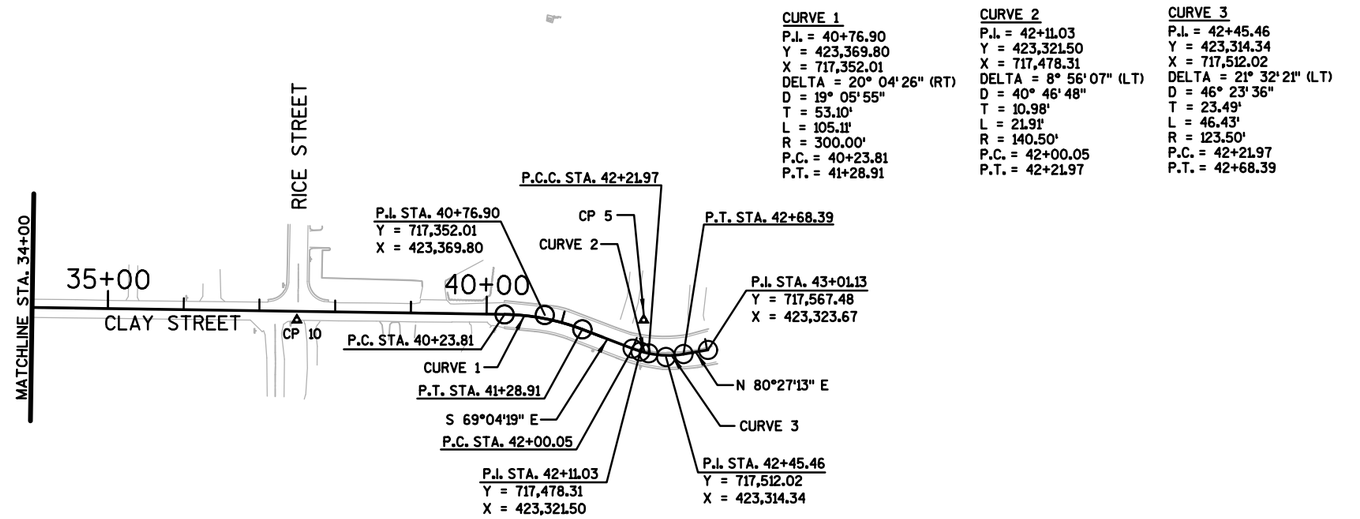
DETAILS OF TRAFFIC CONTROL NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PEDESTRIAN DETOUR SIGNING	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\027005_dt.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



Control Point	Station	Offset	Y	X	Description
5	42+00.15	40.56' LT	423363.29	717482.61	Rebar
10	37+49.57	11.43' RT	423363.25	717024.54	Mag Nail
15	30+48.56	25.60' RT	423359.53	716323.40	Rebar
20	27+57.72	9.26' LT	423398.35	716033.07	Mag Nail
25	23+58.37	21.75' LT	423414.88	715633.99	Mag Nail
34	19+52.68	13.04' LT	423410.15	715228.13	Mag Nail
35	16+00.00	28.39' RT	423372.20	714875.03	Rebar
40	11+23.95	17.65' LT	423422.94	714399.45	Mag Nail
50	28+15.58	43.20' LT	423431.71	716091.27	Stake



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	ALIGNMENT AND CONTROL POINT DATA	SHEET 49	E

					3835-00-73	3835-00-74
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
10	204.0100	Removing Pavement	SY	560.000	560.000	
100	611.2005	Manholes 5-FT Diameter	EACH	7.000	7.000	
102	611.2006	Manholes 6-FT Diameter	EACH	4.000	4.000	
104	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000	
106	611.3230	Inlets 2x3-FT	EACH	28.000	28.000	
108	611.8110	Adjusting Manhole Covers	EACH	2.000	2.000	
110	616.0700.S	Fence Safety	LF	900.000	900.000	
112	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3835-00-73	EACH	1.000	1.000	
114	619.1000	Mobilization	EACH	1.000	0.480	0.520
116	623.0200	Dust Control Surface Treatment	SY	14,250.000	14,250.000	
118	624.0100	Water	MGAL	196.700	196.700	
12	204.0150	Removing Curb & Gutter	LF	3,250.000	3,250.000	
120	625.0100	Topsoil	SY	9,400.000	9,400.000	
122	625.0500	Salvaged Topsoil	SY	6,700.000	6,700.000	
124	627.0200	Mulching	SY	6,700.000	6,700.000	
126	628.1504	Silt Fence	LF	630.000	630.000	
128	628.1520	Silt Fence Maintenance	LF	3,850.000	3,850.000	
130	628.1905	Mobilizations Erosion Control	EACH	9.000	9.000	
132	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000	
134	628.2004	Erosion Mat Class I Type B	SY	1,980.000	1,980.000	
136	628.2006	Erosion Mat Urban Class I Type A	SY	7,500.000	7,500.000	
138	628.7005	Inlet Protection Type A	EACH	45.000	45.000	
14	204.0155	Removing Concrete Sidewalk	SY	1,178.000	1,178.000	
140	628.7010	Inlet Protection Type B	EACH	10.000	10.000	
142	628.7015	Inlet Protection Type C	EACH	10.000	10.000	
144	628.7020	Inlet Protection Type D	EACH	35.000	35.000	
146	628.7504	Temporary Ditch Checks	LF	33.000	33.000	
148	628.7560	Tracking Pads	EACH	9.000	9.000	
150	629.0210	Fertilizer Type B	CWT	10.100	10.100	
152	630.0140	Seeding Mixture No. 40	LB	155.000	155.000	
154	630.0160	Seeding Mixture No. 60	LB	10.000	10.000	
156	630.0300	Seeding Borrow Pit	LB	90.000	90.000	
158	630.0500	Seed Water	MGAL	360.000	360.000	
16	204.0210	Removing Manholes	EACH	2.000	2.000	
160	634.0809	Posts Tubular Steel 2x2-Inch X 9.5-FT	EACH	1.000	1.000	
162	634.0811	Posts Tubular Steel 2x2-Inch X 11-FT	EACH	23.000	23.000	
164	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	2.000	2.000	
166	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	1.000	1.000	
168	637.2210	Signs Type II Reflective H	SF	119.330	119.330	

					3835-00-73	3835-00-74
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
170	637.2230	Signs Type II Reflective F	SF	17.500	17.500	
172	638.2102	Moving Signs Type II	EACH	5.000	5.000	
174	638.2602	Removing Signs Type II	EACH	18.000	18.000	
176	638.3000	Removing Small Sign Supports	EACH	18.000	18.000	
178	642.5001	Field Office Type B	EACH	1.000	0.480	0.520
18	204.0220	Removing Inlets	EACH	17.000	17.000	
180	643.0410	Traffic Control Barricades Type II	DAY	1,632.000	1,632.000	
182	643.0420	Traffic Control Barricades Type III	DAY	3,808.000	3,808.000	
184	643.0705	Traffic Control Warning Lights Type A	DAY	8,160.000	8,160.000	
186	643.0900	Traffic Control Signs	DAY	10,608.000	10,608.000	
188	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000	
190	643.5000	Traffic Control	EACH	1.000	1.000	
192	645.0120	Geotextile Type HR	SY	46.000	46.000	
194	646.6120	Marking Stop Line Epoxy 18-Inch	LF	109.000	109.000	
196	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	369.000	369.000	
198	650.4000	Construction Staking Storm Sewer	EACH	47.000	47.000	
2	201.0105	Clearing	STA	13.000	13.000	
20	204.0245	Removing Storm Sewer (size) 01. 12-Inch to 19x30-Inch	LF	1,425.000	1,425.000	
200	650.4500	Construction Staking Subgrade	LF	3,075.000	3,075.000	
202	650.5000	Construction Staking Base	LF	3,075.000	3,075.000	
204	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	6,330.000	6,330.000	
206	650.9000	Construction Staking Curb Ramps	EACH	12.000	12.000	
208	650.9910	Construction Staking Supplemental Control (project) 01. 3835-00-73	LS	1.000	1.000	
210	650.9920	Construction Staking Slope Stakes	LF	3,230.000	3,230.000	
212	690.0150	Sawing Asphalt	LF	535.000	535.000	
214	690.0250	Sawing Concrete	LF	455.000	455.000	
216	740.0440	Incentive IRI Ride	DOL	2,330.000	2,330.000	
218	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	600.000	600.000	
22	204.9060.S	Removing (item description) 01. Private Light	EACH	1.000	1.000	
220	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	700.000	700.000	
222	SPV.0060	Special 01. Remove and Reset Mailboxes	EACH	36.000	36.000	
224	SPV.0060	Special 02. Temporary Mailbox Station	EACH	2.000	2.000	
226	SPV.0060	Special 03. Locate and Reference Property Corners	EACH	37.000	37.000	
228	SPV.0060	Special 04. Reset Property Corners	EACH	37.000	37.000	
230	SPV.0060	Special 05. Trench Drain and Grate, 6-FT	EACH	1.000	1.000	
232	SPV.0060	Special 06. Trench Drain and Grate, 13-FT	EACH	1.000	1.000	
234	SPV.0060	Special 07. Trench Drain and Grate, 25-FT	EACH	1.000	1.000	
236	SPV.0060	Special 10. Connect to Existing Water Main	EACH	11.000		11.000
238	SPV.0060	Special 11. Connect to Existing Water Service	EACH	55.000		55.000

					3835-00-73	3835-00-74
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
24	204.9090.S	Removing (item description) 01. Landscaping Blocks	LF	16.000	16.000	
240	SPV.0060	Special 12. Water Service Corporation, Curb Stop, and Box, 1-Inch	EACH	45.000		45.000
242	SPV.0060	Special 13. Water Service Corporation, Curb Stop, and Box, 1 1/2-Inch	EACH	5.000		5.000
244	SPV.0060	Special 14. Water Service Corporation, Curb Stop, and Box, 2-Inch	EACH	5.000		5.000
246	SPV.0060	Special 15. Fire Hydrant with Auxiliary Valve and 6-Inch Lead	EACH	9.000		9.000
248	SPV.0060	Special 16. Water Main Gate Valve and Valve Box, 6-Inch	EACH	2.000		2.000
250	SPV.0060	Special 17. Water Main Gate Valve and Valve Box, 8-Inch	EACH	14.000		14.000
252	SPV.0060	Special 18. Connect to Existing Sanitary Main or Manhole	EACH	8.000		8.000
254	SPV.0060	Special 19. Connect to Existing Sanitary Sewer Lateral	EACH	58.000		58.000
256	SPV.0060	Special 20. Sanitary Sewer Manhole, (4-Foot Diameter)	EACH	11.000		11.000
258	SPV.0060	Special 21. Adjust Sanitary Manhole Cover	EACH	5.000		5.000
26	205.0100	Excavation Common	CY	8,701.000	8,701.000	
260	SPV.0060	Special 22. Utility Line Opening (ULO)	EACH	4.000		4.000
262	SPV.0090	Special 01. Water Service Copper, 1-Inch	LF	1,457.000		1,457.000
264	SPV.0090	Special 02. Water Service Copper, 1 1/2-Inch	LF	150.000		150.000
266	SPV.0090	Special 03. Water Service Copper, 2-Inch	LF	150.000		150.000
268	SPV.0090	Special 04. Water Main, Ductile Iron (DI), 6-Inch	LF	64.000		64.000
270	SPV.0090	Special 05. Water Main, Ductile Iron (DI), 8-Inch	LF	3,354.000		3,354.000
272	SPV.0090	Special 06. Water Main Insulation	LF	50.000		50.000
274	SPV.0090	Special 07. Water Main Rock Excavation	LF	200.000		200.000
276	SPV.0090	Special 08. Sanitary Lateral, 4-Inch	LF	1,584.000		1,584.000
278	SPV.0090	Special 09. Sanitary Lateral, 6-Inch	LF	300.000		300.000
28	213.0100	Finishing Roadway (project) 01. 3835-00-73	EACH	1.000	1.000	
280	SPV.0090	Special 10. Sanitary Sewer, Polyvinyl Chloride (PVC), SDR 35 8-Inch	LF	2,839.000		2,839.000
282	SPV.0090	Special 11. Sanitary Sewer Rock Excavation	LF	1,300.000		1,300.000
284	SPV.0090	Special 12. Granular Backfill, Sanitary Sewer	LF	4,423.000		4,423.000
286	SPV.0090	Special 13. Granular Backfill, Water Main	LF	5,010.000		5,010.000
288	SPV.0105	Special 01. Abandon Existing Water Main	LS	1.000		1.000
290	SPV.0105	Special 02. Abandon Existing Sanitary Sewer	LS	1.000		1.000
292	SPV.0195	Special 01. Management of Solid Waste	TON	82.000	82.000	
30	305.0110	Base Aggregate Dense 3/4-Inch	TON	36.000	36.000	
32	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	5,850.000	5,850.000	
34	305.0130	Base Aggregate Dense 3-Inch	TON	5,250.000	5,250.000	

					3835-00-73	3835-00-74
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
36	312.0110	Select Crushed Material	TON	1,000.000	1,000.000	
38	416.0170	Concrete Driveway 7-Inch	SY	1,135.000	1,135.000	
4	201.0120	Clearing	ID	94.000	94.000	
40	416.1010	Concrete Surface Drains	CY	0.700	0.700	
42	455.0605	Tack Coat	GAL	595.000	595.000	
44	460.2000	Incentive Density HMA Pavement	DOL	1,690.000	1,690.000	
46	460.5223	HMA Pavement 3 LT 58-28 S	TON	1,490.000	1,490.000	
48	460.5224	HMA Pavement 4 LT 58-28 S	TON	1,155.000	1,155.000	
50	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	47.000	47.000	
52	513.2001	Railing Pipe	LF	38.000	38.000	
54	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000	
56	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000	
58	522.2614	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 14x23-Inch	EACH	1.000	1.000	
6	201.0205	Grubbing	STA	13.000	13.000	
60	601.0105	Concrete Curb Type A	LF	77.000	77.000	
62	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	6,330.000	6,330.000	
64	602.0410	Concrete Sidewalk 5-Inch	SF	17,550.000	17,550.000	
66	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	120.000	120.000	
68	602.1500	Concrete Steps	SF	236.000	236.000	
70	606.0200	Riprap Medium	CY	8.000	8.000	
72	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	602.000	602.000	
74	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	65.000	65.000	
76	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	334.000	334.000	
78	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	34.000	34.000	
8	201.0220	Grubbing	ID	94.000	94.000	
80	608.2414	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	LF	155.000	155.000	
82	608.2419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	855.000	855.000	
84	608.2424	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	209.000	209.000	
86	611.0530	Manhole Covers Type J	EACH	10.000	10.000	
88	611.0545	Manhole Covers Type L	EACH	2.000	2.000	
90	611.0612	Inlet Covers Type C	EACH	5.000	5.000	
92	611.0624	Inlet Covers Type H	EACH	9.000	9.000	

					3835-00-73	3835-00-74
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
94	611.0639	Inlet Covers Type H-S	EACH	21.000	21.000	
96	611.2003	Manholes 3-FT Diameter	EACH	4.000	4.000	
98	611.2004	Manholes 4-FT Diameter	EACH	3.000	3.000	

CLEARING AND GRUBBING

CATEGORY	STATION	LOCATION	201.0105 CLEARING STA	201.0120 CLEARING ID	201.0205 GRUBBING STA	201.0220 GRUBBING ID
0010	11+00-13+00	RT/LT	2	---	2	---
	14+18	LT	---	6	---	6
	15+00-16+00	RT	1	---	1	---
	15+56	LT	---	4	---	4
	18+77	RT	---	4	---	4
	19+00-20+00	RT/LT	1	---	1	---
	22+08	LT	---	18	---	18
	25+52	LT	---	36	---	36
	26+22	LT	---	12	---	12
	28+00-35+00	LT	7	---	7	---
	35+00-37+00	RT/LT	2	---	2	---
	40+13	RT	---	14	---	14
	TOTALS		13	94	13	94

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION - STATION	LOCATION	204.0155 SY
0010	10+50 - 18+00	RT/LT	480
	18+00 - 25+00	RT/LT	265
	25+00 - 33+00	RT/LT	370
	33+00 - 41+26	RT/LT	63
	TOTAL		1,178

REMOVING PAVEMENT

CATEGORY	STATION - STATION	LOCATION	204.0100 SY
0010	10+50 - 18+00	RT/LT	150
	18+00 - 25+00	RT/LT	220
	25+00 - 33+00	RT/LT	190
	33+00 - 41+26	RT/LT	---
		TOTAL	560

REMOVING CURB & GUTTER

CATEGORY	STATION - STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF
0010	10+50 - 18+00	RT/LT	1,550
	18+00 - 25+00	RT/LT	1,300
	25+00 - 33+00	RT/LT	90
	33+00 - 41+26	RT/LT	310
		TOTAL	3,250

STORM SEWER REMOVAL SUMMARY

CATEGORY	STATION - STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER 12-INCH TO 19X30-INCH LF
0010	12+53.3 - 12+65.6	LT	---	2	34
	14+50.0 - 24+71.4	RT/LT	2	6	655
	26+44.5	LT	---	1	---
	30+58.4 - 31+25.0	LT	---	1	68
	34+69.9 - 39+52.1	RT/LT	---	5	550
	39+71.1	RT/LT	---	---	44
	39+97.2 - 40+29.0	RT/LT	---	2	74
	TOTALS		2	17	1,425

REMOVING PRIVATE LIGHT

CATEGORY	STATION	LOCATION	204.9060.S.01 REMOVING PRIVATE LIGHT EACH
0010	28+55	32'LT	1

EARTHWORK SUMMARY

CATEGORY	LOCATION	STATION - STATION	205.0100 EXCAVATION COMMON (1) CUT (2) CY	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION (3) 5% OF CUT CY	AVAILABLE MATERIAL (4) CY	EXPANDED EBS BACKFILL (5) FACTOR 1.30 CY	UNEXPANDED FILL CY	EXPANDED FILL (6) FACTOR 1.25 CY	MASS ORDINATE +/- (7)	WASTE CY	312.0110 SELECT CRUSHED MATERIAL (3) TON	*624.0100 WATER (FOR DUST CONTROL) MGAL
0010	CLAY STREET	10+50 - 41+26	8,287	414	8,287	539	968	1,210	7,077	7,077	1,000	18
		TOTALS		8,701							1,000	18

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.
2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.
4) AVAILABLE MATERIAL = CUT
5) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL FACTOR = 1.30.
6) EXPANDED FILL = UNEXPANDED FILL * EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.
7) MASS ORDINATE: MASS ORDINATE = (CUT) - (FILL * FILL FACTOR)
PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS MASS ORDINATE QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

REMOVING LANDSCAPING BLOCKS

CATEGORY	STATION - STATION	LOCATION	204.9090.S.01 REMOVING LANDSCAPING BLOCKS LF
0010	20+88 - 21+01	LT	16

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100 EACH
0010	3835-00-73	1

BASE AGGREGATE DENSE

CATEGORY	STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON	*624.0100 WATER (FOR COMPACTION) MGAL	*624.0100 WATER (FOR DUST CONTROL) MGAL
0010	10+50 - 18+00	RT/LT	25	1,350	1,250	39.0	2.7
	18+00 - 25+00	RT/LT	2	1,400	1,250	40.0	2.8
	25+00 - 33+00	RT/LT	---	1,500	1,400	43.0	3.0
	33+00 - 41+26	RT/LT	9	1,600	1,350	45.0	3.2
	TOTALS		36	5,850	5,250	178.7	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE SURFACE DRAINS

CATEGORY	STATION	LOCATION	416.1010 CY
0010	36+84	LT	0.5
	36+85	RT	0.2
	TOTAL		0.7

CONCRETE DRIVEWAY 7-INCH

CATEGORY	STATION	LOCATION	416.0170 SY
0010	10+63	RT	15
	11+15	RT	15
	11+61	RT	20
	12+09	LT	10
	12+68	RT	20
	13+16	LT	25
	13+80	LT	10
	14+43	LT	15
	14+95	RT	40
	15+05	LT	15
	16+26	RT	15
	16+55	RT	25
	17+02	RT	20
	17+56	LT	20
	17+66	RT	25
	18+60	RT	35
	19+08	LT	100
	19+67	LT	30
	19+90	RT	25
	20+45	LT	25
	20+84	RT	30
	21+38	RT	25
	20+38	LT	10
	22+73	LT	40
	24+39	RT	35
	25+35	LT	25
	25+97	LT	10
	27+06	RT	20
	27+35	RT	20
	28+27	RT	35
	29+31	RT	40
	30+33	RT	40
	31+37	RT	55
	31+84	RT	40
	35+33	LT	10
	36+37	LT	25
	37+23	RT	35
	37+70	RT	20
	38+68	RT	15
	38+96	RT	30
	39+30	LT	45
	39+86	RT	25
	TOTAL		1,135

ASPHALTIC ITEMS

CATEGORY	STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (DRIVEWAYS) TON
0010	10+50 - 18+00	RT/LT	140	350	270	10
	18+00 - 25+00	RT/LT	145	365	280	3
	25+00 - 33+00	RT/LT	155	390	305	7
	33+00 - 41+26	RT/LT	155	385	300	27
	TOTALS		595	1,490	1,155	47

NOTE: A CONVERSION FACTOR OF 112 LBS/SY/IN WAS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

CURB & GUTTER

CATEGORY	STATION - STATION	LOCATION	601.0105 CONCRETE CURB TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
0010	10+50 - 18+00	RT/LT	---	1,520	1,520
	18+00 - 25+00	RT/LT	27	1,490	1,490
	25+00 - 33+00	RT/LT	27	1,650	1,650
	33+00 - 41+26	RT/LT	23	1,670	1,670
	TOTALS		77	6,330	6,330

CONCRETE SIDEWALK 5-INCH

CATEGORY	STATION - STATION	LOCATION	602.0410 SF
0010	10+50 - 18+00	RT/LT	3,800
	18+00 - 25+00	RT/LT	3,300
	25+00 - 33+00	RT/LT	3,500
	33+00 - 41+26	RT/LT	6,950
	TOTAL		17,550

CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA

CATEGORY	STATION - STATION	LOCATION	602.0515 SF
0010	10+50 - 18+00	RT/LT	40
	18+00 - 25+00	RT/LT	20
	25+00 - 33+00	RT/LT	20
	33+00 - 41+26	RT/LT	40
	TOTAL		120

CONCRETE STEPS SUMMARY

CATEGORY	STATION	LOCATION	513.2001 RAILING PIPE LF	602.1500 CONCRETE STEPS SF
0010	28+52	LT	18	112
	29+04	LT	20	124
	TOTALS		38	236

STORM SEWER

CATEGORY	FROM STRUCTURE	TO STRUCTURE	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 12-INCH LF	522.2614 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 14X23-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.2414 HORIZONTAL ELLIPTICAL CLASS HE-IV 14X23-INCH LF	608.2419 HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH LF	608.2424 HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH
0010	CL-5.5	EX.	---	---	29	---	---	---	---	---	---	---
	CL-5.4	EX.	---	---	17	---	---	---	---	---	---	---
	CL-5.3	CL-5.4	---	---	10	---	---	---	---	---	---	---
	CL-5.2	CL-5.5	---	---	20	---	---	---	---	---	---	---
	CL-5.1	CL-5.2	---	---	15	---	---	---	---	---	---	---
	CL-5.6	CL-5.7	---	---	29	---	---	---	---	---	---	---
	CL-5.7	EX.	---	---	54	---	---	---	---	---	---	---
	CL-10.2	CL-10	---	---	24	---	---	---	---	---	---	---
	CL-10.1	CL-10	---	---	---	12	---	---	---	---	---	---
	CL-10	CL-15	---	---	---	---	---	---	---	385	---	---
	CL-15	CL-20	---	---	---	---	---	---	---	24	---	---
	CL-20.2	CL-20.1	---	---	23	---	---	---	---	---	---	---
	CL-20.1	CL-15	---	---	12	---	---	---	---	---	---	---
	CL-20	CL-25	---	---	---	---	---	---	---	43	---	---
	CL-25	-	---	---	---	---	8	---	---	---	---	1
	CL-25.1	CL-25	---	---	---	---	---	---	---	---	---	---
	CL-30	CL-25	---	---	---	---	---	---	---	36	---	---
	CL-35.3	CL-35.2	---	---	25	---	---	---	---	---	---	---
	CL-35.2	CL-35	---	---	---	25	---	---	---	---	---	---
	CL-35.1	CL-35.2	---	---	26	---	---	---	---	---	---	---
	CL-35	CL-30	---	---	---	---	---	---	---	34	---	---
	CL-36	CL-35	---	---	---	---	169	---	---	---	---	---
	CL-40.2	CL-40	---	---	24	---	---	---	---	---	---	---
	CL-40.1	CL-40	---	---	18	---	---	---	---	---	---	---
	CL-40	CL-36	---	---	---	---	157	---	---	---	---	---
	CL-45.4	-	---	1	---	---	---	---	-	---	---	---
	CL-45.3	CL-45.4	---	---	---	---	---	---	99	---	---	---
	CL-45.2	CL-45.3	---	---	---	---	---	---	56	---	---	---
	CL-45.1	CL-45.2	---	---	17	---	---	---	---	---	---	---
	CL-45	CL-45.1	---	---	35	---	---	---	---	---	---	---
	CL-45.6	CL-45.7	---	---	14	---	---	---	---	---	---	---
	CL-45.7	-	1	---	-	---	---	---	---	---	---	---
	CL-45.8	CL-45.9	---	---	11	---	---	---	---	---	---	---
	CL-45.9	-	1	---	-	---	---	---	---	---	---	---
	CL-50.2	CL-50	---	---	38	---	---	---	---	---	---	---
	CL-50.1	CL-50	---	---	19	---	---	---	---	---	---	---
	CL-50	CL-52	---	---	---	---	---	---	---	268	---	---
	CL-52	CL-55	---	---	---	---	---	---	---	65	---	---
	CL-52.1	CL-52	---	---	12	---	---	---	---	---	---	---
	CL-52.2	CL-52	---	---	49	---	---	---	---	---	---	---
	CL-55.2	CL-55.1	---	---	27	---	---	---	---	---	---	---
	CL-55.1	CL-55	---	---	---	21	---	---	---	---	---	---
	CL-55	CL-60	---	---	---	---	---	---	---	---	120	---
	CL-60.5	CL-60.4	---	---	---	---	---	---	---	---	---	---
	CL-60.4	CL-60.3	---	---	10	---	---	---	---	---	---	---
	CL-60.3	CL-60.2	---	---	34	---	---	---	---	---	---	---
	CL-60.2	CL-60.1	---	---	10	---	---	---	---	---	---	---
	CL-60.1	CL-60	---	---	---	7	---	---	---	---	---	---
	CL-60	CL-65	---	---	---	---	---	---	---	---	89	---
	CL-65	EX.	---	---	---	---	---	34	---	---	---	---
	TOTALS		2	1	602	65	334	34	155	855	209	1

INLETS, MANHOLES, TEES, PLUGS, MANHOLE COVERS, AND INLET COVERS

CATEGORY	STRUCT. ID*	STATION	OFFSET	611.2003 MANHOLES 3-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0545 MANHOLE COVERS TYPE L EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010	CL-5.5	12+70	17.5'L 'LT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-5.4	12+50	17.5'R 'LT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-5.3	12+40	17.5'R 'LT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-5.2	12+50	17.5'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-5.1	12+35	17.5'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-5.6	10+62.53	14.7'R 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-5.7	10+62.53	14.7'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-10.2	19+50.11	17.5'R 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-10.1	19+50.11	17.5'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-10	19+50.11	6'L 'RT	---	---	1	---	---	---	1	---	---	---	---	1
	CL-15	23+35.19	6'L 'RT	---	---	---	1	---	---	1	---	---	---	---	1
	CL-20.2	23+56.31	25.3'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-20.1	23+35.21	17.5'L 'RT	---	---	---	---	---	1	---	---	---	1	---	1
	CL-20	23+35.19	17.5'R 'RT	---	---	1	---	---	---	---	---	---	1	---	1
	CL-25	23+74.83	33'R 'RT	---	---	---	1	---	---	1	---	---	---	---	1
	CL-25.1	23+74.69	17.5'R 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-30	24+07.16	17.5'R 'RT	---	---	1	---	---	---	---	---	---	1	---	1
	CL-35.3	24+06.38	25.0'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-35.2	24+30.8	31.2'L 'RT	---	---	---	---	---	1	---	---	---	1	---	1
	CL-35.1	24+56.17	31.4'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-35	24+31	6'L 'RT	---	1	---	---	---	---	1	---	---	---	---	1
	CL-36	26+00	6'L 'RT	---	1	---	---	---	---	1	---	---	---	---	1
	CL-40.2	27+62.38	17.5'R 'RT	---	---	---	---	---	1	---	---	---	1	---	1
	CL-40.1	27+51.33	23.14'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-40	27+57.38	6.1'L 'RT	---	1	---	---	---	---	1	---	---	---	---	1
	CL-45.4	32+13.22	30.1'L 'RT	---	---	---	---	---	---	---	---	---	---	---	---
	CL-45.3	31+14.39	25.6'L 'RT	---	---	1	---	---	---	1	---	---	---	---	1
	CL-45.2	30+58.44	33.6'L 'RT	---	---	1	---	---	---	---	---	1	---	---	1
	CL-45.1	30+55.23	17.5'L 'LT	---	---	---	---	---	1	---	---	---	1	---	1
	CL-45	30+55.23	17.5'R 'LT	---	---	---	---	---	1	---	---	---	1	---	1
	CL-45.6	32+15.00	17.5'R 'LT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-45.7	32+21.10	31.50'R 'LT	---	---	---	---	---	---	---	---	---	---	---	---
	CL-45.8	32+15.00	17.5'L 'LT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-45.9	32+19.45	28.00'L 'LT	---	---	---	---	---	---	---	---	---	---	---	---
	CL-50.2	34+50.03	31.5'R 'LT	1	---	---	---	---	---	---	---	1	---	---	1
	CL-50.1	34+50.03	24.5'L 'RT	1	---	---	---	---	---	---	---	1	---	---	1
	CL-50	34+50.03	6'L 'RT	---	---	1	---	---	---	1	---	---	---	---	1
	CL-52	37+18.00	6'L 'RT	---	---	1	---	---	---	1	---	---	---	---	1
	CL-52.1	37+18.00	17.5'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-52.2	37+08.00	42.0'R 'RT	1	---	---	---	---	---	---	---	1	---	---	1
	CL-55.2	37+37.08	38.4'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-55.1	37+64.21	38.5'L 'LT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-55	37+80.00	24.5'L 'LT	---	---	---	1	---	---	---	1	---	---	---	1
	CL-60.5	39+50.00	31.5'R 'LT	1	---	---	---	---	---	---	---	1	---	---	1
	CL-60.4	39+20	17.5'R 'RT	---	---	---	---	---	1	---	---	---	1	---	1
	CL-60.3	39+10	17.5'R 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-60.2	39+10	17.5'L 'RT	---	---	---	---	---	1	---	---	---	---	1	1
	CL-60.1	39+00.00	17.5'L 'RT	---	---	---	---	---	1	---	---	---	1	---	1
	CL-60	39+00.00	24.5'L 'RT	---	---	---	1	---	---	---	1	---	---	---	1
	CL-65	39+89.27	24.5'L 'RT	---	---	---	---	1	---	1	---	---	---	---	1
	TOTALS			4	3	7	4	1	28	10	2	5	9	21	47

RIPRAP ITEMS

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
0010	32+13	LT	2	10
	32+19	LT	2	9
	32+21	RT	2	9
	36+84	LT	1	9
	36+85	RT	1	9
	TOTALS		8	46

ADJUSTING MANHOLE COVERS

CATEGORY	STATION	LOCATION	611.8110 EACH
0010	11+08.4	13.7' RT	1
	12+66.3	11.4' RT	1
		TOTAL	2

FENCE SAFETY

CATEGORY	LOCATION	616.0700.S LF	REMARKS
0010	UNDISTRIBUTED	400	TREE PROTECTION
	UNDISTRIBUTED	500	PEDESTRIAN ROUTING/SAFETY
	TOTAL	900	

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	PROJECT	618.0100 EACH
0020	3835-00-73	1

MOBILIZATION

CATEGORY	PROJECT	619.1000 EACH
0010	3835-00-73	0.48

DUST CONTROL SURFACE TREATMENT

CATEGORY	STATION - STATION	LOCATION	623.0200 SY
0010	10+50 - 18+00	RT/LT	3,350
	18+00 - 25+00	RT/LT	3,450
	25+00 - 33+00	RT/LT	3,750
	33+00 - 41+26	RT/LT	3,700
	TOTAL		14,250

MOBILIZATIONS EROSION CONTROL

CATEGORY	PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	3835-00-73	9	5

SILT FENCE SUMMARY

CATEGORY	STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
0010	32+49 - 35+77	RT	330	2,010
	33+32 - 35+00	LT	175	1,070
	UNDISTRIBUTED		125	770
	TOTALS		630	3,850

FINISHING ITEMS

CATEGORY	STATION - STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0160 SEEDING MIXTURE NO. 60 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0300 SEEDING BORROW PIT LB	630.0500 SEED WATER MGAL
0010	10+50 - 18+00	RT/LT	1,800	---	---	1.1	---	30	---	40
	18+00 - 25+00	RT/LT	1,300	---	---	0.8	---	25	---	30
	25+00 - 33+00	RT/LT	2,000	---	---	1.3	1	35	---	45
	33+00 - 41+26	RT/LT	2,400	---	---	1.5	7	35	---	55
	WASTE SITE	---	---	5,350	5,350	3.4	---	---	70	120
	UNDISTRIBUTED	---	1,900	1,350	1,350	2.0	2	30	20	70
	TOTALS		9,400	6,700	6,700	10.1	10	155	90	360

EROSION MAT

CATEGORY	STATION - STATION	LOCATION	628.2004 CLASS I TYPE B SY	628.2006 URBAN CLASS I TYPE A SY
0010	10+50 - 18+00	RT/LT	---	1,800
	18+00 - 25+00	RT/LT	---	1,300
	25+00 - 33+00	RT/LT	580	1,450
	33+00 - 41+26	RT/LT	1,000	1,450
	UNDISTRIBUTED	RT/LT	400	1,500
	TOTALS		1,980	7,500

INLET PROTECTION SUMMARY

CATEGORY	STATION - STATION	LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
0010	10+50 - 18+00	RT/LT	7	---	2	7
	18+00 - 25+00	RT/LT	10	---	---	10
	25+00 - 33+00	RT/LT	7	1	3	5
	33+00 - 41+26	RT/LT	12	7	3	6
	UNDISTRIBUTED	RT/LT	9	2	2	7
	TOTALS		45	10	10	35

TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	628.7504 LF
0010	32+50	LT	13
	36+75	LT	10
	36+75	RT	10
		TOTAL	33

TRACKING PADS

CATEGORY	LOCATION	628.7560 EACH
0010	CLAY STREET WEST END	1
	CLAY STREET EAST END	1
	DANN STREET	1
	ESTERLY STREET	1
	NEWCOMB STREET	1
	BISHOP STREET	1
	TAFT STREET	1
	RICE STREET	1
	WASTE SITE	1
	TOTAL	9

FIELD OFFICE TYPE B

CATEGORY	PROJECT	642.5001 EACH
0010	3835-00-73	0.48

REMOVING SIGN ITEMS

CATEGORY	SIGN NUMBER	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2102 MOVING SIGNS TYPE II EACH	DESCRIPTION	REMARKS
0010	R1-1	R1-1; D1-1; D1-1	1	1	1	STOP SIGN; CLAY STREET; DANN STREET	MOVE STREET NAME SIGNS AND INSTALL ABOVE NEW STOP SIGN
	R1-2	R2-1	1	1	---	SPEED LIMIT 25 MPH	
	R1-3	R2-1	1	1	---	SPEED LIMIT 25 MPH	
	R1-4	R2-1	1	1	---	SPEED LIMIT 25 MPH	
	R1-5	R2-1	1	1	---	SPEED LIMIT 25 MPH	
	R1-6	---	1	1	---	PRIVATE SIGN	REMOVE SIGN AND POST; RETURN TO PROPERTY OWNER
	R2-1	---	1	1	---	CLASS B HWY RESTRICTIONS ENFORCED	
	R2-2	R1-1	1	1	---	STOP SIGN	
	R2-3	D1-1; D1-1	---	---	1	E CLAY ST; S ESTERLY ST	MOVE STREET NAME SIGNS AND POST
	R2-4	R1-1; R5-1	1	1	---	STOP SIGN; DO NOT ENTER	
	R2-5	R1-1; D1-1; D1-1	1	1	1	STOP SIGN; CLAY STREET; BISHOP STREET	MOVE STREET NAME SIGNS AND INSTALL ABOVE NEW STOP SIGN
	R2-6	R1-1; D1-1; D1-1	1	1	1	STOP SIGN; CLAY STREET; TAFT STREET	MOVE STREET NAME SIGNS AND INSTALL ABOVE NEW STOP SIGN
	R2-7	R2-1	1	1	---	SPEED LIMIT 25 MPH	
	R3-1	R1-1; D1-1; D1-1	1	1	1	STOP SIGN; CLAY STREET; RICE STREET	MOVE STREET NAME SIGNS AND INSTALL ABOVE NEW STOP SIGN
	R3-2	R2-1	1	1	---	SPEED LIMIT 25 MPH	
	R3-3	R5-54	1	1	---	NO THRU TRAFFIC	
	R3-4	W2-6; W13-1; W2-6P	1	1	---	CIRCULAR INTERSECTION SIGN; ROUNDABOUT AHEAD PLAQUE; ADVISORY SPEED	
	R3-5	W3-2	1	1	---	YIELD AHEAD	
	R3-6	R2-1	1	1	---	SPEED LIMIT 25 MPH	
	TOTALS		18	18	5		

3

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NO.	APPROX. STA.	LOC.	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0809 POSTS TUBULAR STEEL 2x2-INCH 9.5-FT EACH	634.0811 POSTS TUBULAR STEEL 2x2-INCH 11-FT EACH	634.0812 POSTS TUBULAR STEEL 2x2-INCH 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2x2-INCH 14-FT EACH	REMARKS
0010	P1 - 1	10+81	LT	R1-1	STOP	30 x 30	5.18	---	---	1	---	---	
	P1 - 2	10+55	LT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	1	---	---	
	P1 - 3	16+45	LT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	1	---	---	
	P1 - 4	18+25	RT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	1	---	---	
	P1 - 5	21+10	LT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	1	---	---	
	P1 - 6	11+85	LT	R7-1L	NO PARKING ANY TIME - LEFT ARROW	18 x 24	3.00	---	---	1	---	---	
	P1 - 7	11+40	RT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	1	---	---	
	P2 - 1	23+25	LT	R12-53	WEIGHT LIMIT CLASS B	24 x 30	5.00	---	---	1	---	---	
	P2 - 2	23+54	LT	R1-1	STOP	30 x 30	5.18	---	---	1	---	---	
	R2 - 3	24+05	LT	---	S ESTERLY ST, E CLAY ST	--- x ---	---	---	---	---	---	---	MOVE EXISTING STREET NAME SIGNS AND POST
	P2 - 4	24+25	LT	R1-1	STOP	30 x 30	5.18	---	---	1	---	---	
	P2 - 5	24+25	LT	R5-1	DO NOT ENTER	30 x 30	6.25	---	---	---	---	---	INSTALL ON SAME POST AS SIGN P2-4
	P2 - 6	27+05	LT	R1-1	STOP	30 x 30	5.18	---	---	1	---	---	
	P2 - 7	30+70	LT	R1-1	STOP	30 x 30	5.18	---	---	1	---	---	
	P2 - 8	27+95	RT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	1	---	---	
	P2 - 9	22+90	LT	R7-1R	NO PARKING ANY TIME - RIGHT ARROW	18 x 24	3.00	---	---	1	---	---	
	P2 - 10	25+20	LT	R7-1L	NO PARKING ANY TIME - LEFT ARROW	18 x 24	3.00	---	---	1	---	---	
	P2 - 11	26+45	LT	R7-1R	NO PARKING ANY TIME - RIGHT ARROW	18 x 24	3.00	---	---	1	---	---	
	P2 - 12	28+20	LT	R7-1L	NO PARKING ANY TIME - LEFT ARROW	18 x 24	3.00	---	1	---	---	---	
	P2 - 13	30+05	LT	R7-1R	NO PARKING ANY TIME - RIGHT ARROW	18 x 24	3.00	---	---	---	---	---	INSTALL BELOW SIGN P2-14
	P2 - 14	30+05	LT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	1	---	---	
	P2 - 15	31+75	LT	R7-1L	NO PARKING ANY TIME - LEFT ARROW	18 x 24	3.00	---	---	1	---	---	
	P3 - 1	37+32	LT	R1-1	STOP	30 x 30	5.18	---	---	1	---	---	
	P3 - 2	37+45	RT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	1	---	---	
	P3 - 3	37+08	RT	R5-54	NO THRU TRAFFIC	24 x 30	5.00	---	---	1	---	---	
	P3 - 4	40+15	RT	W2-6	CIRCULAR INTERSECTION SIGN	30 x 30	---	6.25	---	---	---	1	
	P3 - 5	40+15	RT	W13-1	ADVISORY SPEED PLATE (YELLOW BACK)	18 x 18	---	2.25	---	---	---	---	INSTALL BELOW SIGN P3-4
	P3 - 6	42+20	RT	W3-2	YIELD AHEAD	36 x 36	---	9.00	---	---	1	---	
	P3 - 7	36+67	LT	R7-1R	NO PARKING ANY TIME - RIGHT ARROW	18 x 24	3.00	---	---	1	---	---	
	P3 - 8	38+33	LT	R7-1L	NO PARKING ANY TIME - LEFT ARROW	18 x 24	3.00	---	---	1	---	---	
	P3 - 9	35+85	LT	R2-1	SPEED LIMIT 25 MPH	24 x 30	5.00	---	---	---	1	---	
					TOTALS		119.33	17.50	1	23	2	1	

TRAFFIC CONTROL

CATEGORY	PROJECT	643.5000 EACH
0010	3835-00-73	1

TRAFFIC CONTROL

CATEGORY	TRAFFIC CONTROL OPERATIONS	DURATION (DAYS)	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
0010	PROJECT PRE-WARNING	14	---	---	---	---	---	---	---	---	2	28
	DETOUR ROUTE	136	---	---	---	---	---	---	27	3,672	---	---
	ADVANCE WARNING	136	---	---	20	2,720	40	5,440	30	4,080	---	---
	TEMPORARY PEDESTRIAN ROUTING	136	12	1,632	8	1,088	20	2,720	21	2,856	---	---
	TOTALS			1,632		3,808		8,160		10,608		28

PAVEMENT MARKING

CATEGORY	STATION - STATION	LOCATION	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF
0010	10+50 - 18+00	RT/LT	14	120
	18+00 - 25+00	RT/LT	46	67
	25+00 - 33+00	RT/LT	37	67
	33+00 - 41+26	RT/LT	12	115
			---	---
		TOTALS	109	369

CONSTRUCTION STAKING

CATEGORY	STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.9000 CURB RAMPS EACH	650.9920 SLOPE STAKES LF
0010	10+50 - 18+00	RT/LT	750	750	4	750
	18+00 - 25+00	RT/LT	700	700	2	700
	25+00 - 33+00	RT/LT	800	800	2	800
	33+00 - 41+26	RT/LT	825	825	4	980
	TOTALS		3,075	3,075	12	3,230

SAWING

CATEGORY	STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF
0010	10+50 - 18+00	RT/LT	135	90
	18+00 - 25+00	RT/LT	90	170
	25+00 - 33+00	RT/LT	90	125
	33+00 - 41+26	RT/LT	170	30
	UNDISTRIBUTED	---	50	40
	TOTALS		535	455

PROPERTY CORNERS

CATEGORY	STATION - STATION	LOCATION	SPV.0060.03 LOCATE AND REFERENCE PROPERTY CORNERS EACH	SPV.0060.04 RESET PROPERTY CORNERS EACH
0010	10+50 - 18+00	RT/LT	9	9
	18+00 - 25+00	RT/LT	2	2
	25+00 - 33+00	RT/LT	10	10
	33+00 - 41+26	RT/LT	13	13
	UNDISTRIBUTED	---	3	3
	TOTALS		37	37

REMOVE AND RESET MAILBOX

CATEGORY	STATION - STATION	LOCATION	SPV.0060.01 EACH
0010	10+50 - 18+00	RT/LT	10
	18+00 - 25+00	RT/LT	7
	25+00 - 33+00	RT/LT	6
	33+00 - 41+26	RT/LT	9
	UNDISTRIBUTED	---	4
	TOTAL		36

TEMPORARY MAILBOX STATION

CATEGORY	LOCATION	SPV.0060.02 EACH
0010	PER USPS	2

TRENCH DRAIN AND GRATE

CATEGORY	STATION	LOCATION	SPV.0060.05 6-FT EACH	SPV.0060.06 13-FT EACH	SPV.0060.07 25-FT EACH
0010	35+33	LT	---	1	---
	36+37	LT	---	---	1
	36+87	RT	1	---	---
		TOTALS	1	1	1

MANAGEMENT OF SOLID WASTE

CATEGORY	PROJECT	SPV.0195.01 TON
0020	3835-00-73	82

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\030209_mq.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 43

3

GRANULAR BACKFILL, SANITARY SEWER

CATEGORY	LOCATION	SPV.0090.12 LF
0020	UNDISTRIBUTED	4,423

SANITARY SEWER MAIN SUMMARY

CATEGORY	FROM STRUCTURE	TO STRUCTURE	SPV.0090.10 SANITARY SEWER, PVC, SDR 35 8-INCH LF	SPV.0060.18 CONNECT TO EXISTING SANITARY MAIN OR MANHOLE EACH
0020	MH 14-2	MH 16-2	196	1
	MH 16-2	MH 17-2	196	---
	MH 8-1	MH 7-1	151	---
	MH 7-1	MH 6-1	496	1
	MH 3-1	MH 9-1	56	1
	MH 9-1	MH 9A-1	37	2
	MH 9A-1	MH 10-1	277	---
	MH 9A-1	STUB	40	---
	MH 10-1	MH 10A-1	242	---
	MH 10-1	STUB	40	---
	MH 33-1	MH 32-1	145	---
	MH 32-1	MH 31-1	242	---
	MH 31-1	MH 30-1	294	---
	MH 30-1	MH 29-1	375	1
	MH29-1	STUB	52	2
TOTALS			2,839	8

SANITARY SEWER MANHOLE, (4-FOOT DIAMETER)

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0060.20 EACH
0020	MH 16-2	13+00	0.0' LT	1
	MH 17-2	15+00	0.0' LT	1
	MH 8-1	16+64.7	2.0' RT	1
	MH 7-1	18+16.0	2.0' RT	1
	MH 9A-1	24+48.0	0.0' LT	1
	MH 10-1	27+25.0	0.0' LT	1
	MH 10A-1	29+71.4	0.0' LT	1
	MH 33-1	30+38.2	13.3' RT	1
	MH 32-1	31+83.2	13.7' RT	1
	MH 31-1	34+25.0	12.5' RT	1
	MH 30-1	37+18.5	10.8' RT	1
		TOTAL		11

GRANULAR BACKFILL, WATER MAIN

CATEGORY	LOCATION	SPV.0090.13 LF
0010	UNDISTRIBUTED	5,010

ADJUST SANITARY MANHOLE COVER

CATEGORY	STATION	OFFSET	SPV.0060.21 EACH
0020	11+00	2.4' RT	1
	23+11.8	2.0' RT	1
	23+78.6	45.8' LT	1
	24+11.3	0.0' LT	1
	40+93.6	2.9' RT	1
	TOTAL		5

SANITARY SEWER ROCK EXCAVATION

CATEGORY	STATION - STATION	LOCATION	SPV.0090.11 LF
0020	13+00 - 15+00	RT	200
	30+50 - 41+50	RT	1,100
	TOTAL		1,300

MOBILIZATION

PROJECT	CATEGORY	619.1000 EACH
3835-00-74	0010	0.26
	0020	0.26
	TOTAL	0.52

FIELD OFFICE TYPE B

PROJECT	CATEGORY	642.5001 EACH
3835-00-74	0010	0.26
	0020	0.26
	TOTAL	0.52

SANITARY SEWER LATERAL SUMMARY

CATEGORY	STATION	LATERAL DIRECTION	SPV.0090.08 SANITARY LATERAL, 4-INCH LF	SPV.0090.09 SANITARY LATERAL, 6-INCH LF	SPV.0060.19 CONNECT TO EXISTING SANITARY SEWER LATERAL EACH
0020	11+13	SOUTH	32	0	1
	11+68	SOUTH	32	0	1
	11+87	NORTH	34	0	1
	12+25	NORTH	34	0	1
	12+91	NORTH	34	0	1
	13+40	NORTH	33	0	1
	13+64	SOUTH	33	0	1
	14+13	NORTH	33	0	1
	14+28	SOUTH	33	0	1
	14+61	SOUTH	33	0	1
	14+69	SOUTH	33	0	1
	14+94	NORTH	33	0	1
	16+79	SOUTH	31	0	1
	16+84	SOUTH	31	0	1
	17+02	NORTH	35	0	1
	17+77	SOUTH	31	0	1
	18+11	NORTH	35	0	1
	18+80	SOUTH	31	0	1
	19+10	NORTH	35	0	1
	19+75	SOUTH	31	0	1
	19+94	NORTH	35	0	1
	20+81	SOUTH	31	0	1
	21+01	NORTH	35	0	1
	21+97	SOUTH	31	0	1
	22+60	SOUTH	31	0	1
	25+02	NORTH	33	0	1
	25+31	NORTH	33	0	1
	25+43	NORTH	33	0	1
	26+38	NORTH	33	0	1
	26+48	SOUTH	33	0	1
	27+67	SOUTH	33	0	1
	27+84	NORTH	33	0	1
	27+97	SOUTH	33	0	1
	28+13	NORTH	33	0	1
	29+31	NORTH	33	0	1
	29+62	SOUTH	33	0	1
	30+65	NORTH	47	0	1
	30+74	SOUTH	33	0	1
	30+96	SOUTH	20	0	1
	35+43	NORTH	43	0	1
	35+92	NORTH	43	0	1
	36+56	SOUTH	28	0	1
	37+02	NORTH	43	0	1
	38+18	SOUTH	26	0	1
	38+35	SOUTH	26	0	1
	38+98	SOUTH	24	0	1
	39+05	NORTH	45	0	1
	40+15	SOUTH	23	0	1
	UNDISTRIBUTED		---	300	10
	TOTALS		1,584	300	58

WATER MAIN INSULATION

CATEGORY	LOCATION	SPV.0090.06 LF
0010	UNDISTRIBUTED	50

WATER MAIN DUCTILE IRON (DI) PIPE SUMMARY

CATEGORY	FROM STRUCT./STA.	TO STRUCT./LOC	SPV.0090.04 WATER MAIN, DUCTILE IRON (DI), 6-INCH LF	SPV.0090.05 WATER MAIN, DUCTILE IRON (DI), 8-INCH LF	SPV.0060.10 CONNECT TO EXISTING WATER MAIN EACH
0010	11+17.5	13+00.2	---	150	1
	13+00.2	13+22.2	---	31	---
	13+22.2	23+84.8	---	1,101	---
	EXISTING	23+84.8	---	86	1
	23+84.8	24+23.9	---	39	---
	24+23.9	24+39.7	---	16	---
	24+23.9	EXISTING	29	---	1
	24+39.7	STUB	---	61	---
	24+39.7	30+00.1	---	615	---
	30+00.1	30+08.1	---	12	---
	30+08.1	30+79.6	---	70	---
	30+79.6	EXISTING	---	18	1
	30+79.6	31+71.4	---	94	---
	31+71.4	EXISTING	---	31	1
	31+71.4	37+26.5	---	555	---
	37+26.5	EXISTING		31	1
	37+26.5	37+56.2	---	30	---
	37+56.2	STUB	---	49	---
	37+56.2	38+68.1	---	112	---
	38+68.1	EXISTING	35	---	1
	38+68.1	EXISTING	---	213	1
	40+77.2	40+93.3	---	40	2
	40+82	HYDRANT	--	---	1
	TOTALS		64	3,354	11

FIRE HYDRANT WITH AUXILIARY VALVE AND 6-INCH LEAD

CATEGORY	STATION	OFFSET	SPV.0060.15 EACH
0010	15+60	21.5' RT	1
	20+25	21.5' RT	1
	21+20	21.5' RT	1
	24+25	42.4' LT	1
	28+82	21.5' RT	1
	31+56	21.5' RT	1
	37+50	21.5' RT	1
	37+68	46.2' LT	1
	40+88	34.5' RT	1
	TOTAL		9

WATER MAIN GATE VALVE AND VALVE BOX

CATEGORY	STATION	OFFSET	SPV.0060.16 WATER MAIN GATE VALVE AND VALVE BOX, 6-INCH EACH	SPV.0060.17 WATER MAIN GATE VALVE AND VALVE BOX, 8-INCH EACH
0010	15+64	10' RT	---	1
	20+30	10.0' RT	---	1
	23+80	10.0' RT	---	1
	23+89	10.0' RT	---	1
	24+24	13' RT	1	---
	24+40	5.6' RT	---	1
	28+85	10.0' RT	---	1
	30+73	2.0' RT	---	1
	30+82	2.0' RT	---	1
	31+22	2.0' RT	---	1
	37+27	6.0' RT	---	1
	37+31	2.0' RT	---	1
	37+56	1.3' LT	---	1
	38+68	0.0' LT	1	---
	40+77	3.1' LT	---	1
	40+92	34.1' LT	---	1
TOTALS			2	14

WATER MAIN ROCK EXCAVATION

CATEGORY	STATION - STATION	LOCATION	SPV.0090.07 LF
0010	UNDISTRIBUTED		200

UTILITY LINE OPENING (ULO)

CATEGORY	LOCATION	SPV.0060.22 EACH
0010	UNDISTRIBUTED	4

WATER SERVICES SUMMARY

CATEGORY	STATION	LATERAL DIRECTION	SPV.0090.01 WATER SERVICE COPPER 1-INCH LF	SPV.0090.02 WATER SERVICE COPPER 1 1/2-INCH LF	SPV.0090.03 WATER SERVICE COPPER 2-INCH LF	SPV.0060.12 WATER SERVICE CORPORATION, CURB STOP, AND BOX, 1-INCH EACH	SPV.0060.13 WATER SERVICE CORPORATION, CURB STOP, AND BOX, 1 1/2-INCH EACH	SPV.0060.14 WATER SERVICE CORPORATION, CURB STOP, AND BOX, 2-INCH EACH	SPV.0060.11 CONNECT TO EXISTING WATER SERVICE EACH
0010	11+75	SOUTH	45	---	---	1	---	---	1
	11+91	NORTH	21	---	---	1	---	---	1
	12+28	NORTH	21	---	---	1	---	---	1
	12+95	NORTH	21	---	---	1	---	---	1
	13+62	NORTH	43	---	---	1	---	---	1
	13+76	SOUTH	23	---	---	1	---	---	1
	14+09	NORTH	43	---	---	1	---	---	1
	14+24	SOUTH	23	---	---	1	---	---	1
	14+57	SOUTH	23	---	---	1	---	---	1
	14+73	SOUTH	23	---	---	1	---	---	1
	14+89	NORTH	43	---	---	1	---	---	1
	16+75	SOUTH	23	---	---	1	---	---	1
	16+88	SOUTH	23	---	---	1	---	---	1
	17+06	NORTH	43	---	---	1	---	---	1
	17+81	SOUTH	23	---	---	1	---	---	1
	18+07	NORTH	43	---	---	1	---	---	1
	18+77	SOUTH	23	---	---	1	---	---	1
	19+07	NORTH	43	---	---	1	---	---	1
	19+72	SOUTH	23	---	---	1	---	---	1
	19+98	NORTH	43	---	---	1	---	---	1
	20+85	SOUTH	23	---	---	1	---	---	1
	20+97	NORTH	43	---	---	1	---	---	1
	21+93	SOUTH	23	---	---	1	---	---	1
	24+89	NORTH	43	---	---	1	---	---	1
	25+35	NORTH	43	---	---	1	---	---	1
	25+53	NORTH	43	---	---	1	---	---	1
	26+45	NORTH	43	---	---	1	---	---	1
	26+52	SOUTH	23	---	---	1	---	---	1
	27+73	SOUTH	23	---	---	1	---	---	1
	27+79	NORTH	43	---	---	1	---	---	1
	28+14	SOUTH	23	---	---	1	---	---	1
	28+35	NORTH	43	---	---	1	---	---	1
	29+24	NORTH	43	---	---	1	---	---	1
	29+56	SOUTH	23	---	---	1	---	---	1
	30+50	SOUTH	32	---	---	1	---	---	1
	30+61	NORTH	35	---	---	1	---	---	1
	30+68	SOUTH	32	---	---	1	---	---	1
	35+56	NORTH	35	---	---	1	---	---	1
	36+22	NORTH	35	---	---	1	---	---	1
	36+52	SOUTH	31	---	---	1	---	---	1
	36+68	NORTH	35	---	---	1	---	---	1
	38+05	SOUTH	31	---	---	1	---	---	1
	38+59	SOUTH	31	---	---	1	---	---	1
	39+06	SOUTH	31	---	---	1	---	---	1
	40+65	SOUTH	31	---	---	1	---	---	1
UNDISTRIBUTED			---	150	150	---	5	5	10
TOTALS			1,457	150	150	45	5	5	55

98526

Cab E Slide 85

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

3835-00-03

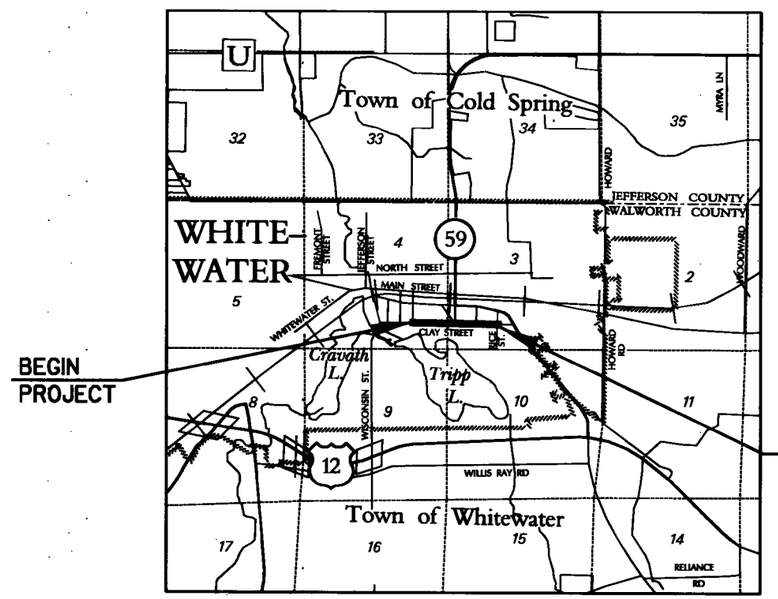
CITY OF WHITEWATER, CLAY STREET

(DANN STREET TO RICE STREET)

LOCAL STREET

WALWORTH COUNTY

R-15-E



N

LAYOUT
SCALE 0 ½ MI.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL RIGHT-OF-WAY LINES DEPICTED IN NON ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD."

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE LAND SURVEY.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

EXISTING HIGHWAY RIGHT-OF-WAY FOR CLAY STREET ESTABLISHED FROM: ESTERLY'S ADDITION TO THE CITY OF WHITEWATER, TRIPPE AND POSEY'S SUBDIVISION OF BLOCK 10 OF TRIPP'S 2ND ADDITION, TRIPP'S 2ND ADDITION, S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER, PLAT OF EAST WILLOWS, CSM 8, CSM 17, CSM 919, CSM 1366, CSM 1411, CSM 1579, CSM 1612, CSM 3925, CSM 4005, & CSM 4462, DEED DOC. 42560, DEED DOC. 710998, DEED DOC. 715649.

EXISTING HIGHWAY RIGHT-OF-WAY FOR S. DANN STREET ESTABLISHED FROM: ESTERLY'S ADDITION TO THE CITY OF WHITEWATER, TRIPPE AND POSEY'S SUBDIVISION OF BLOCK OF TRIPP'S 2ND ADDITION.

EXISTING HIGHWAY RIGHT-OF-WAY FOR S. ESTERLY STREET ESTABLISHED FROM: ESTERLY'S ADDITION TO THE CITY OF WHITEWATER.

EXISTING HIGHWAY RIGHT-OF-WAY FOR S. NEWCOMB STREET ESTABLISHED FROM: ESTERLY'S ADDITION TO THE CITY OF WHITEWATER & CSM 8.

EXISTING HIGHWAY RIGHT-OF-WAY FOR BISHOP STREET ESTABLISHED FROM: S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER & CSM 8.

EXISTING HIGHWAY RIGHT-OF-WAY FOR TAFT STREET ESTABLISHED FROM: S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER.

EXISTING HIGHWAY RIGHT-OF-WAY FOR RICE STREET ESTABLISHED FROM: S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER.

EXISTING HIGHWAY RIGHT-OF-WAY FOR OLD USH 12 (ELKHORN ROAD) ESTABLISHED FROM: PREVIOUS PROJECT: 3110-02-21, S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER, CSM 919, DEED DOC. 42560, DEED DOC. 710998.

A TEMPORARY LIMITED EASEMENT (T.L.E.) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE. INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (T.L.E.'S) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RECORDED AS	(1007)
ACCESS RIGHTS	AR	REFERENCE LINE	R/L
ACRES	AC.	RELEASE OF RIGHTS	ROR
AND OTHERS	ET.AL.	REMAINING	REM.
CENTERLINE	C/L	RIGHT-OF-WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC.
CHISELED X	CHIS. X	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LC
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
REBAR	RBR.	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (SIZE NOTED ON DETAILS)
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
SIGN (SIGN)
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT (300)
TLE POINT (TLE300)
PARCEL NUMBER (102)
UTILITY INTEREST (40)
OFF PREMISE SIGN (2-7)
BRIDGE
SIGNAL CONTROL CABINET
SIGNAL LIGHT
PULL BOX

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET
TRANSMISSION STRUCTURES
BUILDING TO BE REMOVED
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL., ELEC., ETC.)		
LIGHT POLE	*	*

3/8/19

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3835-00-03 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : S:\MAD\1400--1499\1407\091\Milaroe\Plan\TPP\040101_rt.DGN
APPRAISAL PLAT DATE : 2/27/19
PLOT DATE : 2/27/2019
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : **.....plotscale.....**

CONSTRUCTION ID 3835-00-73 RW ID 3835-00-03 4.01

995726

Cab E Slide 84

TRANSPORTATION PROJECT PLAT NO: 3835-00-03 - 4.01

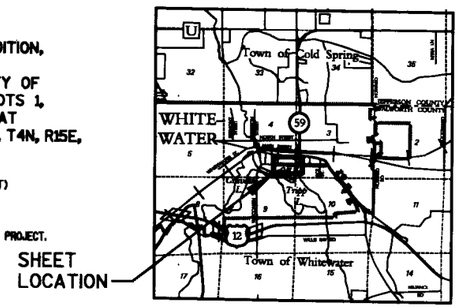
THAT PART OF LOT 12 BLOCK 1 OF TRIPPE AND POSEY'S SUBDIVISION OF BLOCK 10 OF TRIPPE'S 2ND ADDITION, AND THAT PART OF LOTS 2 & 3 BLOCK 11 OF TRIPP'S 2ND ADDITION IN THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 AND THAT PART OF LOTS 4, 5, 11, 12, & 13 BLOCK 4 OF ESTERLY'S ADDITION TO THE CITY OF WHITEWATER, AND THAT PART OF LOTS 1 & 2 BLOCK 11 OF TRIPP'S 2ND ADDITION, AND THAT PART OF LOTS 1, 2, 3, & 4 OF CSM 3925, AND THAT PART OF LOT 1 OF CSM 1579 (LAKESIDE ACRES CONDOMINIUM) AND THAT PART OF FORMER FLORENCE STREET IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4, ALL IN SECTION 4, T4N, R15E, CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN.

RELOCATION ORDER LOCAL STREET WALWORTH COUNTY CITY OF WHITEWATER, CLAY STREET, (DANN STREET TO RICE STREET)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF WHITEWATER DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF WHITEWATER HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF WHITEWATER, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

COURSE	BEARING	DISTANCE
103-104	S 89° 26' 05" E	5.00'
104-105	N 0° 48' 55" E	17.13'



LOCATION SKETCH
NOT TO SCALE

N

SCALE, FEET
0 50 100

STRAND ASSOCIATES, INC.
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF WHITEWATER, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

(SIGNATURE) _____ DATE 2/27/19
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S - 2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF WHITEWATER.
(SIGNATURE) _____ DATE 3/8/19
(PRINTED NAME) Cameron Clapper

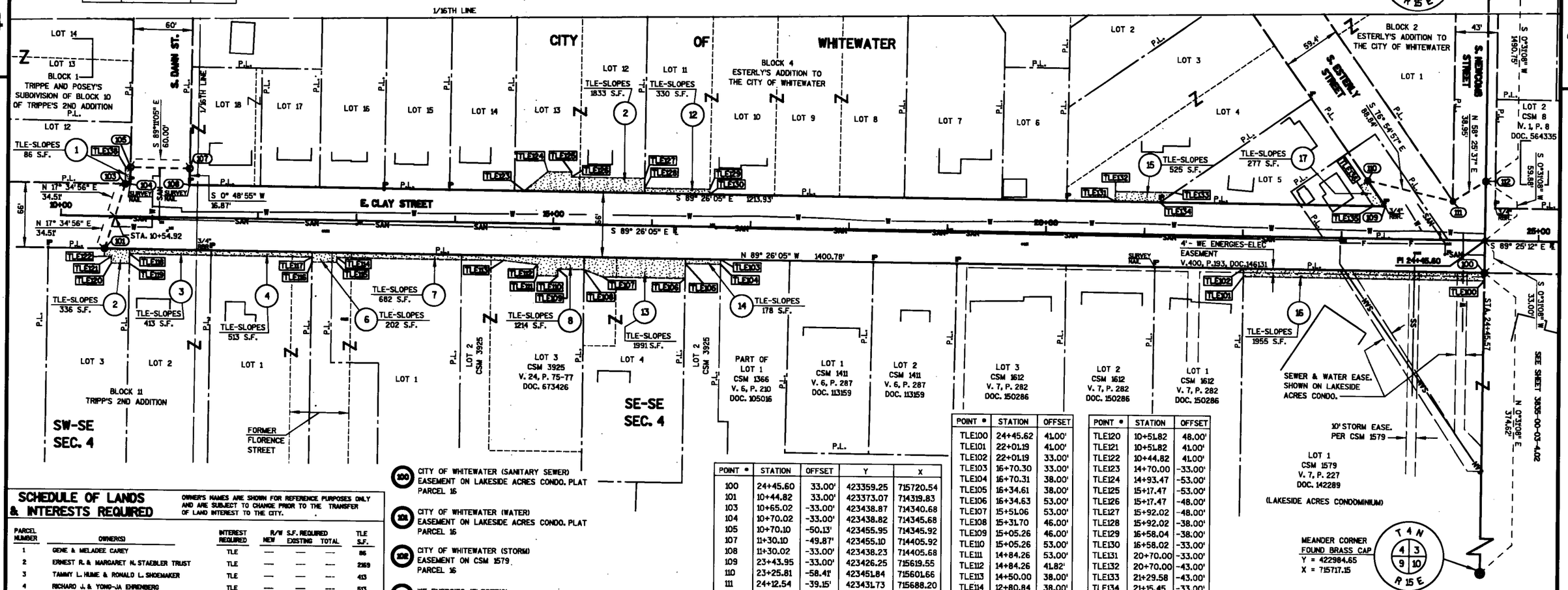
Doc # 963726
Recorded
March 12, 2019 12:17 PM
Filed
DONNA R PRUESS
REGISTER OF DEEDS
WALWORTH COUNTY, WI
Fee Amount: $25.00
Total Pages: 2

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3835-00-03-4.01
AMENDMENT NO:
SHEET 1 OF 2

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN WALWORTH COUNTY AS SHEET 2 OF 2.

FOUND BRASS CAP
Y = 424942.82
X = 715734.88

T 4 N
4 3
R 15 E



POINT	STATION	OFFSET	Y	X
100	24+45.60	33.00'	423359.25	715720.54
101	10+44.82	33.00'	423373.07	714319.83
103	10+65.02	-33.00'	423438.87	714340.68
104	10+70.02	-33.00'	423438.82	714345.68
105	10+70.10	-50.13'	423455.95	714345.92
107	11+30.10	-49.87'	423455.10	714405.92
108	11+30.02	-33.00'	423438.23	714405.68
109	23+43.95	-33.00'	423426.25	715619.55
110	23+25.81	-58.41'	423451.84	715601.66
111	24+12.54	-39.15'	423431.73	715688.20
112	24+45.52	-59.88'	423452.13	715721.38

POINT	STATION	OFFSET
TLE100	24+45.62	41.00'
TLE101	22+01.19	41.00'
TLE102	22+01.19	33.00'
TLE103	16+70.30	33.00'
TLE104	16+70.31	38.00'
TLE105	16+34.61	38.00'
TLE106	16+34.63	53.00'
TLE107	15+51.06	53.00'
TLE108	15+31.70	46.00'
TLE109	15+05.26	46.00'
TLE110	15+05.26	53.00'
TLE111	14+84.26	53.00'
TLE112	14+84.26	41.82'
TLE113	14+50.00	38.00'
TLE114	12+80.84	38.00'
TLE115	12+80.86	43.00'
TLE116	12+55.61	43.00'
TLE117	12+55.61	38.00'
TLE118	10+70.47	38.00'
TLE119	10+70.47	48.00'

POINT	STATION	OFFSET
TLE120	10+51.82	48.00'
TLE121	10+51.82	41.00'
TLE122	10+44.82	41.00'
TLE123	14+70.00	-33.00'
TLE124	14+93.47	-53.00'
TLE125	15+17.47	-53.00'
TLE126	15+17.47	-48.00'
TLE127	15+92.02	-48.00'
TLE128	15+92.02	-38.00'
TLE129	16+58.04	-38.00'
TLE130	16+58.02	-33.00'
TLE131	20+70.00	-33.00'
TLE132	20+70.00	-43.00'
TLE133	21+29.58	-43.00'
TLE134	21+15.45	-33.00'
TLE135	23+31.67	-33.00'
TLE136	23+17.67	-52.60'
TLE138	10+65.10	-50.15'

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE CITY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE S.F.
1	GENE & MELADEE CAREY	TLE	---	---	---	86
2	ERNEST R. & MARGARET N. STAEBLER TRUST	TLE	---	---	---	2169
3	TAMMY L. HUME & RONALD L. SHOEMAKER	TLE	---	---	---	413
4	RICHARD J. & YONG-JA EHRENBERG	TLE	---	---	---	513
6	CITY OF WHITEWATER	TLE	---	---	---	202
7	CITY OF WHITEWATER (PUMP HOUSE)	TLE	---	---	---	682
8	CHRISTINE NELSON TRUST	TLE	---	---	---	1214
12	K4A INVESTMENTS LLC.	TLE	---	---	---	330
13	MIKE & MELISSA JUONI	TLE	---	---	---	1991
14	RONALD R. SCHILT	TLE	---	---	---	178
15	RUSSELL G. ASBURY JR. & SANDRA K. ASBURY	TLE	---	---	---	525
16	LAKESIDE ACRES CONDOMINIUM OWNERS ASSOCIATION	TLE	---	---	---	1955
17	JANET A. LUBASZ	TLE	---	---	---	277

(100) CITY OF WHITEWATER (SANITARY SEWER) EASEMENT ON LAKESIDE ACRES CONDO. PLAT PARCEL 16

(101) CITY OF WHITEWATER (WATER) EASEMENT ON LAKESIDE ACRES CONDO. PLAT PARCEL 16

(102) CITY OF WHITEWATER (STORM) EASEMENT ON CSM 1579 PARCEL 16

(104) WE ENERGIES (ELECTRIC) EASEMENT V.400, P.193, DOC.146131 PARCEL 16

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
100	CITY OF WHITEWATER (SANITARY SEWER)	RELEASE OF RIGHTS
101	CITY OF WHITEWATER (WATER)	RELEASE OF RIGHTS
102	CITY OF WHITEWATER (STORM)	RELEASE OF RIGHTS
104	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

PI STA. 10+00.00
Y = 423406.52
X = 714275.34

PI STA. 24+45.60
Y = 423392.25
X = 715720.87
DELTA = 0°00'53" RT

FOUND IRONS ARE 1" IRON PIPES UNLESS OTHERWISE NOTED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

HWY	BASIS OF EXIST. R/W
E. CLAY STREET	ESTERLY'S ADDITION TO THE CITY OF WHITEWATER TRIPPE AND POSEY'S SUBDIVISION OF BLOCK 10 OF TRIPP'S 2ND ADDITION TRIPP'S 2ND ADDITION CSM 8, CSM 1366, CSM 1411, CSM 1579, CSM 1612, & CSM 3925
S. DANN STREET	ESTERLY'S ADDITION TO THE CITY OF WHITEWATER TRIPPE AND POSEY'S SUBDIVISION OF BLOCK OF TRIPP'S 2ND ADDITION
S. ESTERLY ST.	ESTERLY'S ADDITION TO THE CITY OF WHITEWATER
S. NEWCOMB ST.	ESTERLY'S ADDITION TO THE CITY OF WHITEWATER & CSM

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\TPP\040401_rp.dgn
APPRAISAL PLAT DATE: 2/27/19

PLOT DATE :
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : ##.....plotscale.....##

3835-00-03 4.01

984022

Cab E Slide 86

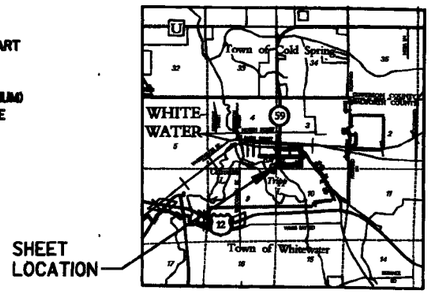
TRANSPORTATION PROJECT PLAT NO: 3835-00-03 - 4.02

THAT PART OF LOTS 2 & 4 OF CSM 8 AND THAT PART OF LOT 1 OF CSM 1579 (LAKESIDE ACRES CONDOMINIUM), AND THAT PART OF LOTS 1 & 2 OF CSM 4462, AND THAT PART OF LOT 2 OF CSM 4005, AND THAT PART OF LOTS 12, 13, & 14 BLOCK 10 OF S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER, AND THAT PART OF LOTS 10, 11, 12, 13, & 14 BLOCK 8 OF S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER, AND THAT PART OF LOT 4 OF THE PLAT OF EAST WILLOWS (EAST WILLOWS CONDOMINIUM) AND THAT PART OF LOTS 5, 6, 7, 8, 9, & OUTLOT 1 OF THE PLAT OF EAST WILLOWS LOCATED IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4, ALL IN SECTION 3, T4N R15E, CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN.

RELOCATION ORDER LOCAL STREET WALWORTH COUNTY CITY OF WHITEWATER, CLAY STREET, (DANN STREET TO RICE STREET)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF WHITEWATER DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF WHITEWATER HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF WHITEWATER, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.



LOCATION SKETCH
NOT TO SCALE

N

SCALE, FEET
0 50 100

STRAND ASSOCIATES, INC.
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF WHITEWATER, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

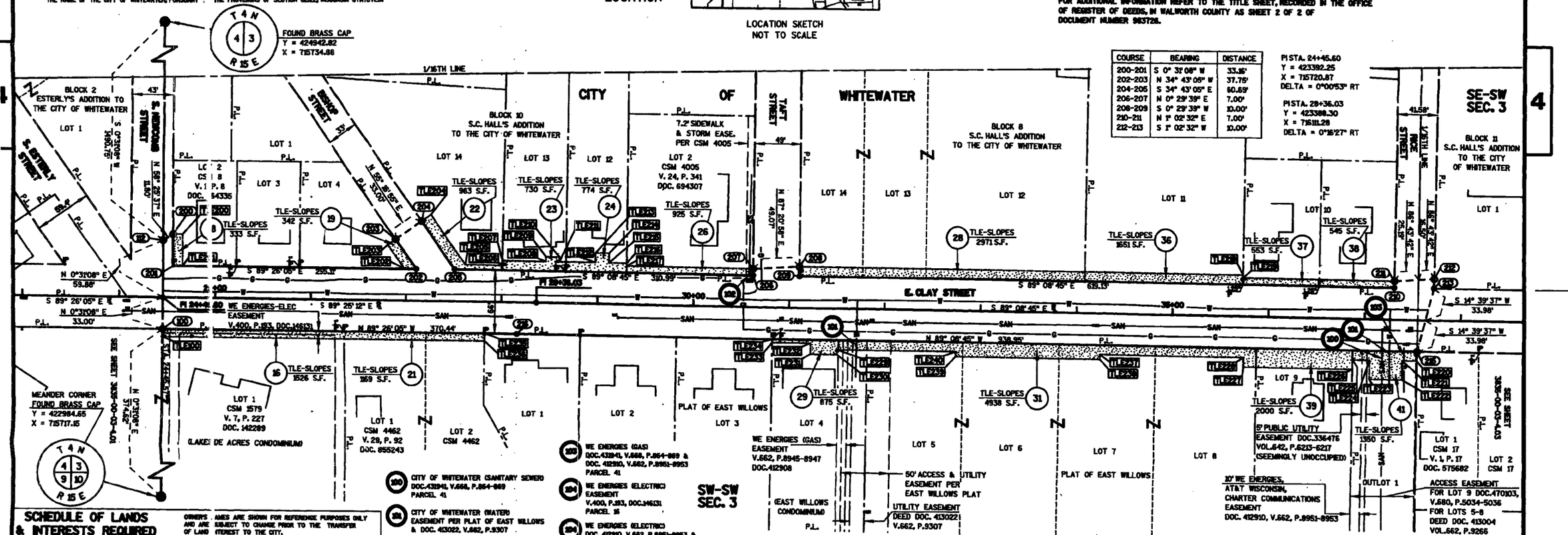
(SIGNATURE) _____ DATE 3/12/19
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S - 2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF WHITEWATER.
(SIGNATURE) _____ DATE 3/13/19
(PRINTED NAME) Cameron Clapper

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN WALWORTH COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 983728.

Doc 984022
Recorded
March 19, 2019 9:55 AM
Filed
DONNA R PRUESS
REGISTER OF DEEDS
WALWORTH COUNTY, WI
Fee Amount: $25.00
Total Pages: 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3835-00-03-4.02
AMENDMENT NO.



COURSE	BEARING	DISTANCE
200-201	S 0° 31' 08" W	33.16'
202-203	N 34° 43' 05" W	37.75'
204-205	S 34° 43' 05" E	60.69'
206-207	N 0° 29' 39" E	7.00'
208-209	S 0° 29' 39" W	10.00'
210-211	N 1° 02' 32" E	7.00'
212-213	S 1° 02' 32" W	10.00'

P.I. STA. 24+45.60
Y = 423392.25
X = 715720.87
DELTA = 0°00'53" RT

P.I. STA. 28+36.03
Y = 423389.30
X = 716181.28
DELTA = 0°16'27" RT

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS AND ARE OF LAND

AMES ARE SHOWN FOR REFERENCE PURPOSES ONLY SUBJECT TO CHANGE PRIOR TO THE TRANSFER TEREST TO THE CITY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE S.F.
15	LAKESIDE ACRES CONDOMINIUM OWNER'S ASSOCIATION	TLE	—	—	—	1526
19	CYNTHIA L. HALFMANN	TLE	—	—	—	333
19	MURIL T. FIELDS TRUST	TLE	—	—	—	342
21	THOMAS A. EDNOSKI	TLE	—	—	—	869
22	ERIC R. BERGHOLTZ	TLE	—	—	—	963
23	RICHARD A. WISCH & RAYMOND V. WISCH	TLE	—	—	—	730
24	COREY A. KLEFBOHM	TLE	—	—	—	774
26	JOHN A. & MICHELLE M. CORDIO	TLE	—	—	—	925
28	PRESQUE ISLE PROPERTIES LLC.	TLE	—	—	—	2971
29	EAST WILLOWS CONDOMINIUM ASSOCIATION, INC.	TLE	—	—	—	875
31	EASTWARD APARTMENTS LLC.	TLE	—	—	—	4938
36	KRISTINA L. SOBOLEWSKI	TLE	—	—	—	1651
37	J VULTAGGIO II LLC.	TLE	—	—	—	553
38	MARK F. ZINGSHEIM	TLE	—	—	—	545
39	J VULTAGGIO LLC.	TLE	—	—	—	2000
41	THE VILLAGE AT TRIPP LAKE CONDOMINIUM OWNER'S ASSOCIATION, INC.	TLE	—	—	—	1350

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
100	CITY OF WHITEWATER (SANITARY SEWER)	RELEASE OF RIGHTS
101	CITY OF WHITEWATER (WATER)	RELEASE OF RIGHTS
102	CITY OF WHITEWATER (STORM)	RELEASE OF RIGHTS
103	WE ENERGIES (GAS)	RELEASE OF RIGHTS
104	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS
105	AT&T WISCONSIN	RELEASE OF RIGHTS
106	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS

100 CITY OF WHITEWATER (SANITARY SEWER) DOC.413941, V.668, P.864-869 PARCEL 41

101 CITY OF WHITEWATER (WATER) EASEMENT PER PLAT OF EAST WILLOWS & DOC. 413022, V.662, P.9307 PARCEL 29

101 CITY OF WHITEWATER (WATER) DOC.413941, V.668, P.864-869 PARCEL 41

102 CITY OF WHITEWATER (STORM) EASEMENT PER CSM 4005 PARCEL 26

103 WE ENERGIES (GAS) EASEMENT V.662, P.8945-8947, DOC.412908 PARCEL 29

103 WE ENERGIES (GAS) DOC.413941, V.668, P.864-869 & DOC. 412910, V.662, P.8951-8953 PARCEL 41

104 WE ENERGIES (ELECTRIC) EASEMENT V.400, P.193, DOC.146131 PARCEL 15

104 WE ENERGIES (ELECTRIC) DOC. 412910, V.662, P.8951-8953 & BLANKET EASEMENT V.63, P.221-223, DOC.645802 PARCEL 41

105 AT&T WISCONSIN DOC. 412910 V.662, P.8951-8953 PARCEL 41

106 CHARTER COMMUNICATIONS DOC. 412910 V.662, P.8951-8953 PARCEL 41

POINT #	STATION	OFFSET	Y	X
100	24+45.60	33.00'	423359.25	715720.54
112	24+45.52	-59.88'	423452.13	715721.38
200	24+55.50	-66.16'	423458.31	715731.44
201	24+55.54	-33.00'	423425.15	715731.14
202	27+10.64	-33.07'	423422.64	715986.23
203	26+88.83	-63.88'	423453.66	715964.73
204	27+15.77	-82.94'	423472.46	715991.86
205	27+50.84	-33.41'	423422.57	716026.43
206	30+61.66	-33.00'	423417.93	716337.38
207	30+61.62	-40.00'	423424.93	716337.44
208	31+10.60	-43.00'	423427.20	716386.46
209	31+10.67	-33.00'	423417.20	716386.37
210	37+29.79	-33.00'	423407.97	717005.43
211	37+29.82	-40.00'	423414.97	717005.56
212	37+71.41	-43.00'	423417.35	717047.19
213	37+71.37	-33.00'	423407.35	717047.01
215	37+55.15	33.00'	423341.60	717029.81
216	28+16.05	32.90'	423355.60	716090.96

POINT #	STATION	OFFSET
TLE100	24+45.62	41.00'
TLE200	24+65.50	-66.35'
TLE201	24+65.54	-33.01'
TLE202	26+98.39	-33.07'
TLE203	26+80.67	-58.10'
TLE204	27+25.56	-89.88'
TLE205	27+62.04	-38.35'
TLE206	28+00.38	-38.17'
TLE207	28+00.42	-43.17'
TLE208	28+45.23	-43.00'
TLE209	28+45.23	-48.00'
TLE210	28+59.23	-48.00'
TLE211	28+59.23	-43.00'
TLE212	28+97.06	-43.00'
TLE213	28+97.06	-53.00'
TLE214	29+11.06	-53.00'
TLE215	29+11.06	-43.00'
TLE216	29+29.50	-43.00'
TLE217	29+29.52	-40.00'
TLE218	35+72.89	-43.00'
TLE219	35+72.89	-40.00'
TLE220	37+55.15	43.00'

POINT #	STATION	OFFSET
TLE221	37+39.80	43.00'
TLE222	37+39.80	63.00'
TLE223	37+05.80	63.00'
TLE224	37+05.80	43.00'
TLE225	36+88.16	43.00'
TLE226	36+88.17	53.00'
TLE227	35+75.00	53.00'
TLE228	35+75.00	43.00'
TLE229	31+51.05	43.00'
TLE230	31+51.10	48.00'
TLE231	31+23.25	48.00'
TLE232	31+23.03	36.50'
TLE233	30+82.49	36.50'
TLE234	30+82.49	33.00'
TLE235	27+82.47	32.91'
TLE236	27+82.47	40.91'
TLE237	34+25.00	43.00'
TLE238	34+25.00	48.00'
TLE239	32+75.00	48.00'
TLE240	32+75.00	43.00'

FOUND IRONS ARE 3/4" REBARS UNLESS OTHERWISE NOTED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

HWY	BASIS OF EXIST. R/W
E. CLAY STREET	ESTERLY'S ADDITION TO THE CITY OF WHITEWATER S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER PLAT OF EAST WILLOWS CSM 8, CSM 17, CSM 1579, CSM 4005, & CSM 4462
S. ESTERLY ST.	ESTERLY'S ADDITION TO THE CITY OF WHITEWATER
S. NEWCOMB ST.	ESTERLY'S ADDITION TO THE CITY OF WHITEWATER & CSM 8
BISHOP STREET	S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER & CSM 8
TAFT STREET	S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER
RICE STREET	S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER

FILE NAME : S:\MAD\1400--1499\1407\091\Docs\Plan\TPP\040402_rp.dgn
APPRAISAL PLAT DATE: 3/12/19

PLOT DATE :
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : ##.....plotscale.....##

3835-00-03 4.02

984023

Cab E Slide 87

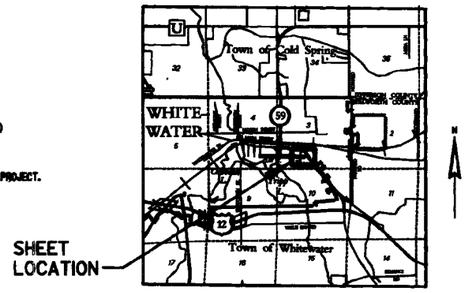
TRANSPORTATION PROJECT PLAT NO: 3835-00-03 - 4.03

THAT PART OF LOTS 1, 2, & 3 OF CSM 17 AND THAT PART OF LOT 1 OF CSM 919 AND THAT PART OF LOTS 1, 2, 3, 4, & 6 OF BLOCK 11 OF S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER AND OTHER LANDS IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4, ALL IN SECTION 3, T4N, R15E, CITY OF WHITEWATER, WALWORTH COUNTY, WISCONSIN.

RELOCATION ORDER LOCAL STREET WALWORTH COUNTY CITY OF WHITEWATER, CLAY STREET, (DANN STREET TO RICE STREET)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF WHITEWATER DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF WHITEWATER HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF WHITEWATER, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.



LOCATION SKETCH
NOT TO SCALE

SCALE, FEET
0 50 100

STRAND ASSOCIATES, INC.
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF WHITEWATER, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN HEATHER S. BARTELT S-2797 MADISON WI LAND SURVEYOR

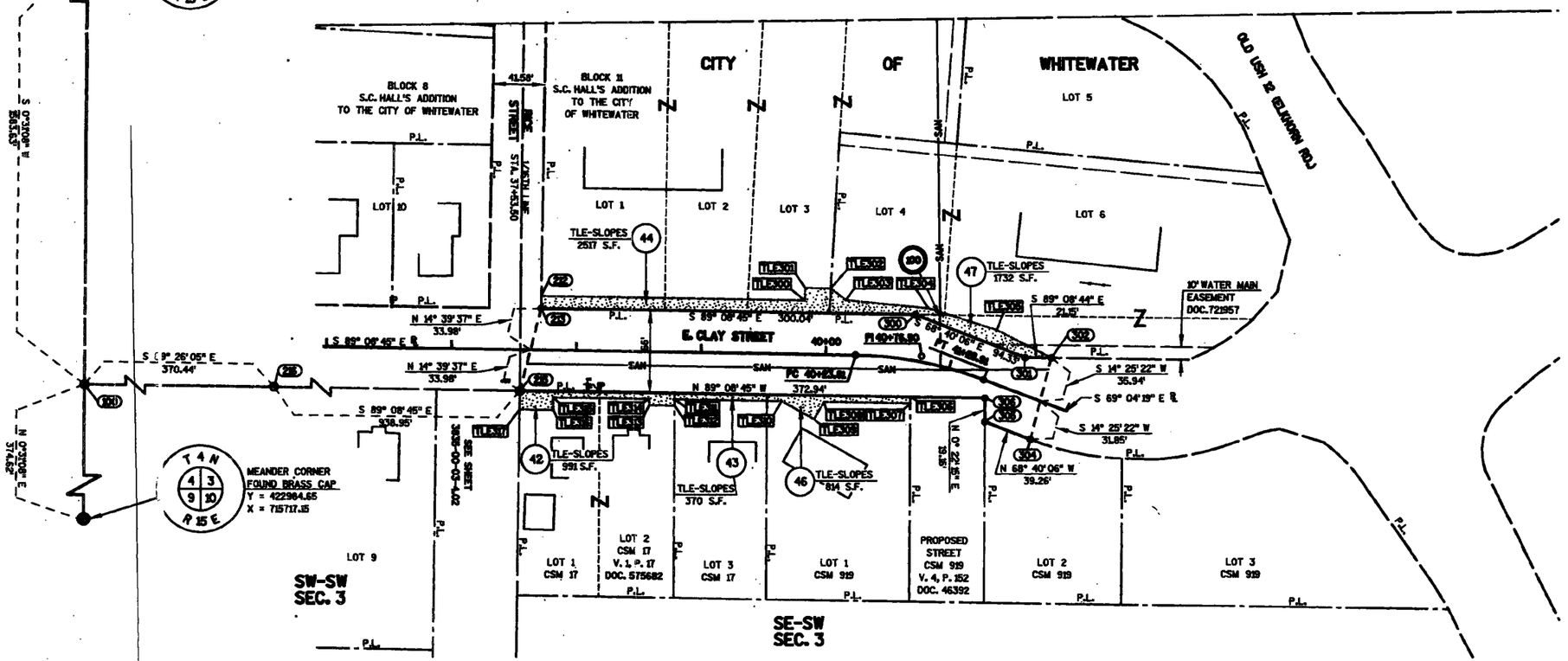
(SIGNATURE) _____ DATE 3/12/19
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S - 2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF WHITEWATER.
(SIGNATURE) _____ DATE 3/14/19
(PRINTED NAME) Cameron Clapper

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN WALWORTH COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 983728.

Doc # 984023
Recorded
March 19, 2019 9:55 AM
Filed
DONNA R PRUESS
REGISTER OF DEEDS
WALWORTH COUNTY, WI
Fee Amount: $25.00
Total Pages: 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3835-00-03-4.03
AMENDMENT NO.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE CITY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE S.F.
42	JUAN F. RODRIGUEZ & ANDREA R. MENDOZA	TLE	—	—	—	991
43	STEVEN J. STRITZEL	TLE	—	—	—	370
44	SAI HOSPITALITY LLC.	TLE	—	—	—	2517
46	JEFFREY L. IVERSON	TLE	—	—	—	814
47	JOHN M. & SUSAN K. HANEKAMP REVOCABLE LIVING TRUST, VENDOR BEN ROTTEN, FRANK LEGATH, & JOHN LEGATH, VENDEE	TLE	—	—	—	1732

100 CITY OF WHITEWATER (SANITARY SEWER)
NO RECORDED EASEMENT
PARCEL 47

101 CITY OF WHITEWATER (WATER)
DOC. 721957
PARCEL 47

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
100	CITY OF WHITEWATER (SANITARY SEWER)	RELEASE OF RIGHTS
101	CITY OF WHITEWATER (WATER)	RELEASE OF RIGHTS

P.I. = 40+76.90
Y = 423,369.80
X = 717,352.01
DELTA = 20° 04' 26" (RT)
D = 19° 05' 55"
T = 53.10'
L = 105.10'
R = 300.00'
P.C. = 40+23.81
P.T. = 41+28.91

POINT #	STATION	OFFSET	Y	X
212	37+71.41	-43.00'	423417.35	717047.29
213	37+71.37	-33.00'	423407.35	717047.01
215	37+55.15	33.00'	423341.60	717029.81
300	40+66.41	-36.39'	423402.88	717347.02
301	41+53.66	-28.45'	423368.57	717434.88
302	41+73.52	-35.71'	423368.25	717456.03
304	41+81.20	31.64'	423302.60	717439.15
305	41+41.95	31.36'	423316.88	717402.58
306	41+36.22	13.42'	423336.04	717402.70

POINT #	STATION	OFFSET
TLE300	39+82.51	-43.00'
TLE301	39+82.65	-53.00'
TLE302	40+03.27	-53.00'
TLE303	40+15.18	-43.87'
TLE304	40+75.00	-43.00'
TLE305	41+25.00	-41.00'
TLE306	40+73.16	29.35'
TLE307	40+74.14	34.27'
TLE308	39+93.11	38.00'
TLE309	39+91.13	52.04'
TLE310	39+65.10	38.00'
TLE311	38+79.18	38.00'
TLE312	38+79.22	43.00'
TLE313	38+59.00	43.00'
TLE314	38+59.00	38.00'
TLE315	37+82.08	38.00'
TLE316	37+82.08	48.03'
TLE317	37+55.15	48.00'

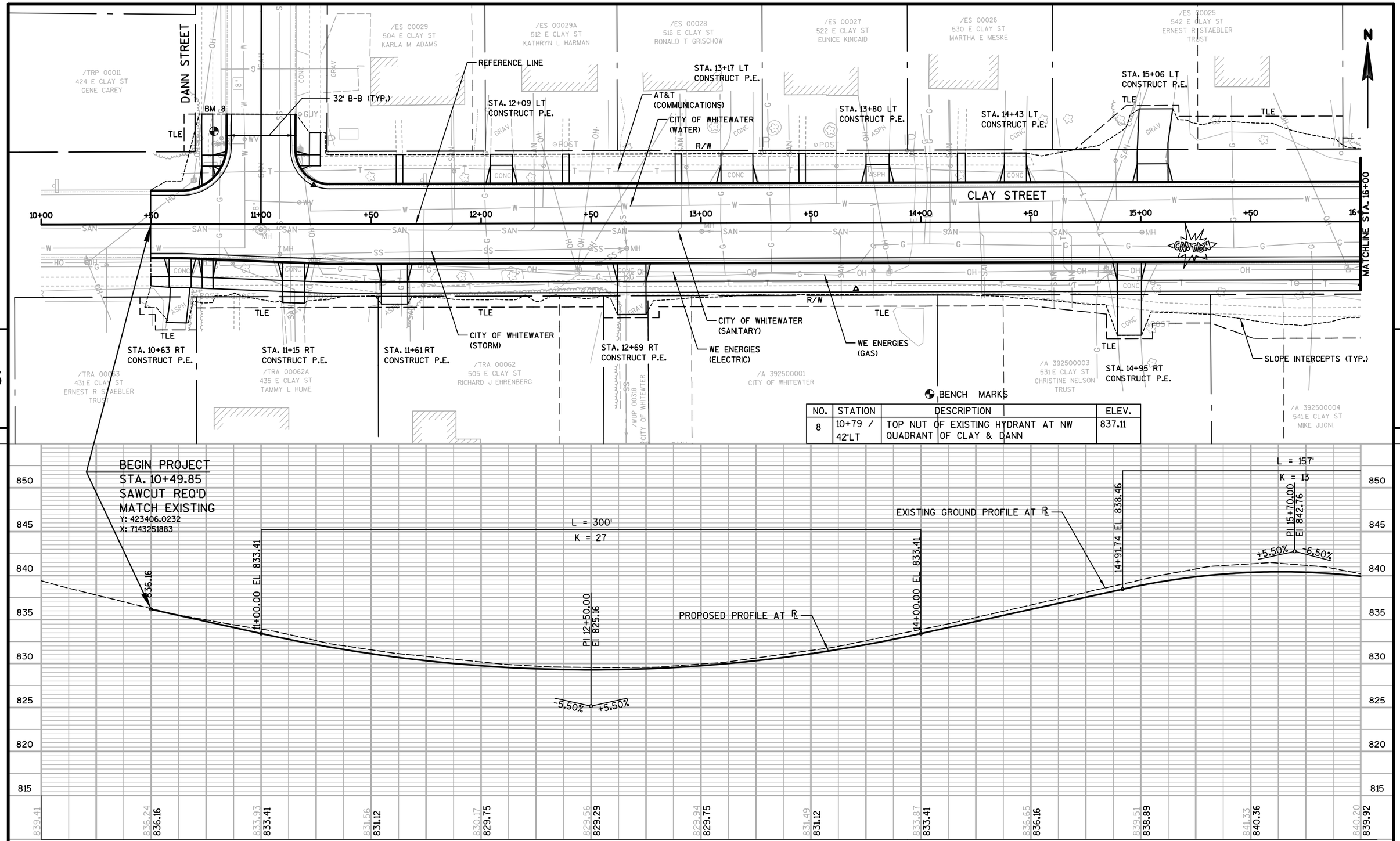
FOUND IRONS ARE 1" IRON PIPES UNLESS OTHERWISE NOTED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WALWORTH COUNTY, NAD83(2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

HWY	BASIS OF EXIST. R/W
E. CLAY STREET	S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER, CSM 17, CSM 919, DEED DOC. 42560, DEED DOC. 710998, DEED DOC. 716649
RICE STREET	S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER
OLD USH 12 (ELKHORN RD.)	PREVIOUS PROJECT: 3180-02-21, S.C. HALL'S ADDITION TO THE CITY OF WHITEWATER, CSM 919, DEED DOC. 42560, DEED DOC. 710998

FILE NAME : S:\MAD\1400--1499\1407\091\Acroe\Plan\TPP\040403_rp.dgn
APPRAISAL PLAT DATE: 3/12/19
PLOT DATE :
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : ##.....plotscale.....##

3835-00-03 4.03



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
8	10+79 / 42'LT	TOP NUT OF EXISTING HYDRANT AT NW QUADRANT OF CLAY & DANN	837.11

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN AND PROFILE	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\050101_pp.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

/ES 00024B
K4A INVESTMENTS LLC

/ES 00024A
558 E CLAY ST
K4A INVESTMENTS LLC

/ES 00024
K4A INVESTMENTS LLC

/ES 00023
578 E CLAY ST
ALLAN T STARK

/ES 00022
622 E CLAY ST
AJ TANIS II LLC

/ES 00019
RUSSELL G ASBURY JR

/ES 00020
638 E CLAY ST
RUSSELL G ASBURY JR

/ES 00021
248 S ESTERLY ST
MATHEW ALAN MORKVED

N

STA. 17+56 LT
CONSTRUCT P.E.

STA. 19+00 LT
CONSTRUCT C.E.

STA. 19+68 LT
CONSTRUCT P.E.

STA. 20+50 LT
CONSTRUCT P.E.

TLE

BM 7

R/W

CITY OF WHITEWATER
(WATER)

MATCHLINE STA. 16+00

CLAY STREET

00 +50 17+00 +50 18+00 +50 19+00 +50 20+00 +50 21+00 +50 22

MATCHLINE STA. 22+00

CAUTION

WE ENERGIES
(GAS)

SLOPE INTERCEPTS
(TYP.)

CITY OF WHITEWATER
(SANITARY)

WE ENERGIES
(ELECTRIC)

CITY OF WHITEWATER
(STORM)

AT&T
(COMMUNICATIONS)

TLE

STA. 16+25 RT
CONSTRUCT P.E.

STA. 16+56 RT
CONSTRUCT P.E.

STA. 17+00 RT
CONSTRUCT P.E.

STA. 17+66 RT
CONSTRUCT P.E.

STA. 18+60 RT
CONSTRUCT P.E.

STA. 19+90 RT
CONSTRUCT P.E.

STA. 20+84 RT
CONSTRUCT P.E.

STA. 21+43 RT
CONSTRUCT P.E.

/A 392500004
541 E CLAY ST
MIKE JUONI

/A 392500002
545 E CLAY ST
RONALD R SCHILT

/A 136600001
555 E CLAY ST
PATRICK A MCCORMICK
TRUST

/A 141100001
565 E CLAY ST
SHANNON PREVITE

/A 141100002
581/583 E CLAY ST
ROBERT J MCLERNON

/A 161200003
611 E CLAY ST
E&L ZIPP MANAGEMENT
TRUST

/A 161200002
637 E CLAY ST
ROBERT A STERNERT

/A 161200001
651 E CLAY ST
JAMES E GOSH

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
7	17+24 / 24'LT	TOP NUT OF EXISTING HYDRANT ON NORTH SIDE OF CLAY STREET AT 558 CLAY ST.	835.32

APPROXIMATE LIMITS OF CONTAMINATED SOIL

PROPOSED PROFILE AT ℄

EXISTING GROUND PROFILE AT ℄

16+48.26 EL 837.68

L = 155'
K = 26

17+12.50 EL 833.50

PI 17+90.00
El 828.46

18+67.50 EL 828.00

-6.50%

-0.60%

L = 50'
K = 24

19+50.00 EL 827.50

PI 19+75.00
El 827.35

20+00.00 EL 827.73

-0.60%

+1.50%

L = 100'
K = 48

20+50.00 EL 828.48

PI 21+00.00
El 829.23

21+50.00 EL 828.93

+1.50%

-0.60%

850 845 840 835 830 825 820 815

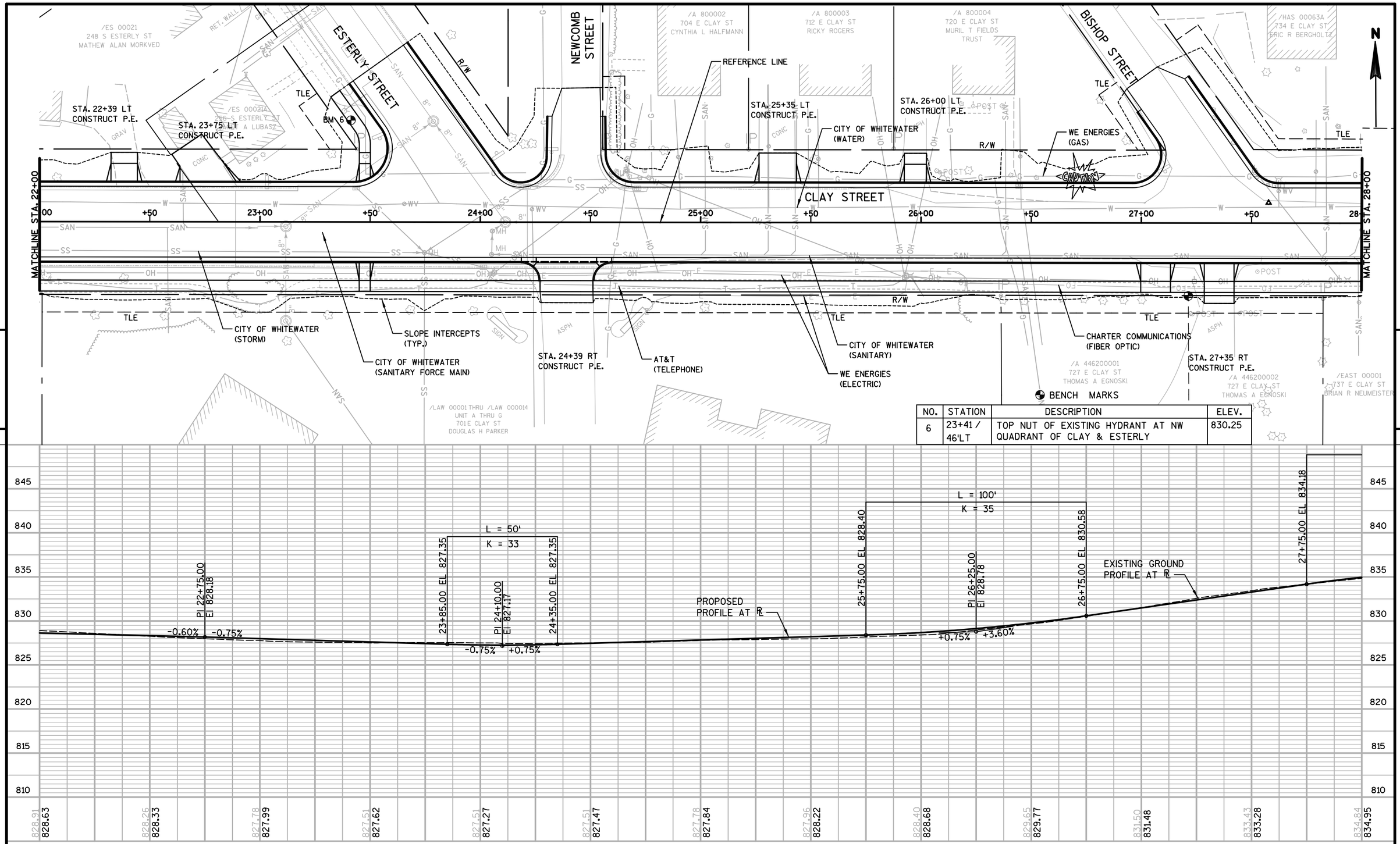
840.20 839.92
837.26 837.56
834.13 834.31
831.28 831.33
829.27 829.27
828.34 828.16
828.04 827.80
827.87 827.50
828.01 827.73
828.46 828.48
829.10 828.97
829.41 828.93
828.91 828.63

16+00 17+00 18+00 19+00 20+00 21+00 22+00

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN AND PROFILE	SHEET 73	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\050102_pp.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 30



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
6	23+41 / 46'LT	TOP NUT OF EXISTING HYDRANT AT NW QUADRANT OF CLAY & ESTERLY	830.25

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN AND PROFILE	SHEET 74	E

/HAS 00063
742 E CLAY ST
RICHARD A WISCH

/HAS 00062
746 E CLAY ST
COREY A KLEFBOHM

/A 400500002
220 S TAFT ST
MICHELLE M CORDIO

/HAS 00048D
PRESQUE ISLE
PROPERTIES LLC

TAFT STREET

SLOPE INTERCEPTS
(TYP.)

CITY OF WHITEWATER
(STORM)

CITY OF WHITEWATER
(WATER)

TLE
R/W
STEPS
POST
G
W
SAN
SS
WV
OH
MH
FO
GUY
CONC

MATCHLINE STA. 28+00

28+00 +50 29+00 +50 30+00 +50 31+00 +50 32+00 +50 33+00 +50 34+00

MATCHLINE STA. 34+00

CLAY STREET

CITY OF WHITEWATER
(SANITARY)

STA. 28+25 RT
CONSTRUCT P.E.

STA. 29+25 RT
CONSTRUCT P.E.

STA. 30+33 RT
CONSTRUCT P.E.

STA. 31+37 RT
CONSTRUCT P.E.

STA. 31+85 RT
CONSTRUCT P.E.

CHARTER COMMUNICATIONS
(COMMUNICATIONS)

WE ENERGIES
(GAS)

WE ENERGIES
(ELECTRIC)

CAUTION

/EAST 00001
737 E CLAY ST
BRIAN R NEUMEISTER

/EAST 00002
747/749 E CLAY ST
JOHN A CORDIO

/EAST 00003
781/783 E CLAY ST
FUNHUNTERS RENTALS LLC

/EASTC0001 THRU /EASTC00003
787 E CLAY ST
UNIT 1 - HOWARD ERIK WITH
UNIT 2 - KELLY J KOKESH
UNIT 3 - CURTIS S ROWLEY

/EAST 00005
801A/801B E CLAY ST
EASTWARD APARTMENTS LLC

/EAST 00006
801C E CLAY ST
EASTWARD APARTMENTS LLC

5

5

L = 100'
K = 24
PI 28+25.00
El 835.97
28+75.00 EL 835.72
+3.60%
-0.50%

L = 100'
K = 36
29+50.00 EL 835.35
PI 30+00.00
El 835.10
30+50.00 EL 833.45
-0.50%
-3.30%

L = 200'
K = 53
PI 31+50.00
El 830.15
-3.30%
+0.50%

PROPOSED PROFILE AT ℄

L = 100'
K = 100
32+50.00 EL 830.65
33+00.00 EL 830.90
PI 33+50.00
El 831.15
34+00.00 EL 830.90
+0.50%
-0.50%

EXISTING GROUND
PROFILE AT ℄

845 840 835 830 825 820 815 810

834.84 834.95 | 835.52 835.72 | 835.64 835.60 | 835.19 835.35 | 834.65 834.75 | 833.30 833.45 | 831.91 832.04 | 831.21 831.10 | 830.68 830.64 | 830.14 830.65 | 829.73 830.90 | 829.53 831.03 | 829.36 830.90

28+00 29+00 30+00 31+00 32+00 33+00 34+00

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN AND PROFILE	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\050104_pp.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 30

/HAS 00048C
840 E CLAY ST
KRISTINA L ZINGSHEIM

/HAS 00048B
848/848 E CLAY ST
J VULTAGGIO II LLC

/HAS 00048A
852/854 E CLAY ST
MARK F ZINGSHEIM

/HAS 00064
841 E MILWAUKEE ST
SAI HOSPITALITY LLC

/HAS 00065
917 E MILWAUKEE ST
SAI HOSPITALITY LLC

RICE STREET

N

SLOPE INTERCEPTS (TYP.)

STA. 35+32 LT
CONSTRUCT P.E.

STA. 36+38 LT
CONSTRUCT P.E.

CITY OF WHITEWATER
(STORM)

CITY OF WHITEWATER
(WATER)

STA. 39+25 LT
CONSTRUCT P.E.

TLE

R/W

CLAY STREET

MATCHLINE STA. 34+00

MATCHLINE STA. 40+00

34+00 +50 35+00 +50 36+00 +50 37+00 +50 38+00 +50 39+00 +50 40+00

B12

B13

CAUTION

CITY OF WHITEWATER
(SANITARY)

WE ENERGIES
(ELECTRIC)

WE ENERGIES
(GAS)

CHARTER COMMUNICATIONS
(FIBER OPTIC)

STA. 37+25 RT
CONSTRUCT P.E.

STA. 37+69 RT
CONSTRUCT P.E.

STA. 38+68 RT
CONSTRUCT P.E.

STA. 39+00 RT
CONSTRUCT P.E.

STA. 39+86 RT
CONSTRUCT P.E.

/EAST 00007
801D E CLAY ST
EASTWARD APARTMENTS LLC

/EAST 00008
801E E CLAY ST
EASTWARD APARTMENTS LLC

/EAST 00009
847 E CLAY ST
J VULTAGGIO LLC

/EAST 00010
VILLAGE AT TRIPP LAKE
CONDO OWNERS ASSOCIATION

/A 1700001
903 E CLAY ST
JUAN F RODRIGUEZ

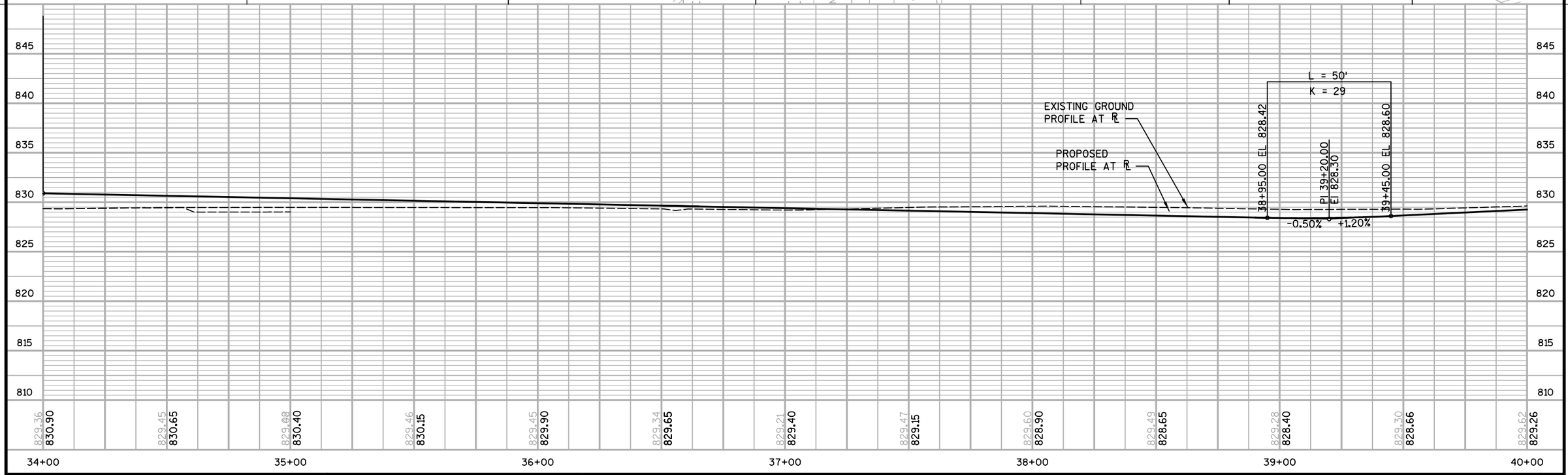
/A 1700003
909 E CLAY ST
JUAN F RODRIGUEZ

/A 1700003
915 E CLAY ST
STEVEN J STRITZEL

/A 91900001
929/931 E CLAY ST
JEFFREY L IVERSON

5

5



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN AND PROFILE	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\050105_pp.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 30

/HAS 00067
218 ELKHORN RD
BEN ROYTEN

CITY OF WHITEWATER
(WATER)

WE ENERGIES
(GAS)

TLE

R/W

CLAY STREET

MATCHLINE STA. 40+00

41+00

42+00

43+00

+50

CAUTION

CITY OF WHITEWATER
(SANITARY)

WE ENERGIES
(ELECTRIC)

CITY OF WHITEWATER
(STORM)

SLOPE INTERCEPTS
(TYP.)

END CONSTRUCTION
STA. 42+80.38
MATCH EXISTING

/A 91900003
312 ELKHORN RD
STRITZEL RENTAL
PROPERTIES LLC

/A 91900002
STRITZEL RENTAL
PROPERTIES LLC

/A 91900001
929/931E CLAY ST
JEFFREY L IVERSON

N

5

5

EXISTING GROUND PROFILE AT ℄

PROPOSED PROFILE AT ℄

END PROJECT
STA. 41+26.14
MATCH EXISTING

830.76

840
835
830
825
820
815
810
805

829.62 829.26
830.04 829.86
830.55 830.46
831.10 831.01
831.61 831.51
832.07 832.01
832.59 832.51

40+00
41+00

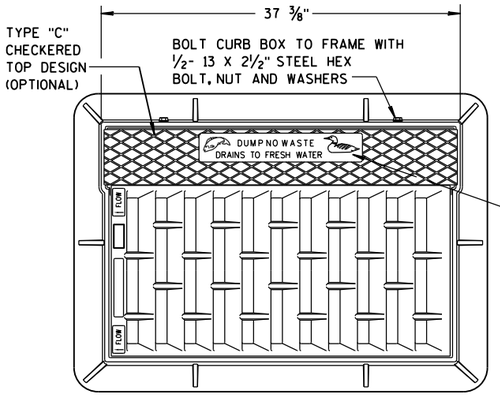
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	PLAN AND PROFILE	SHEET 77	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\050106_pp.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

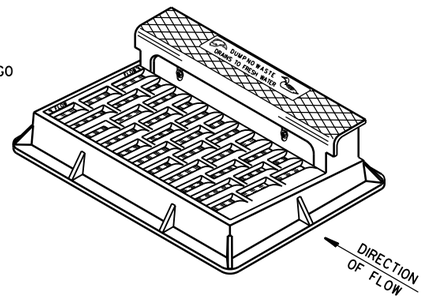
WISDOT/CADDS SHEET 30

Standard Detail Drawing List

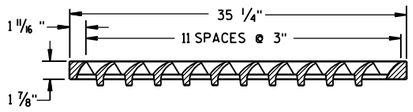
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

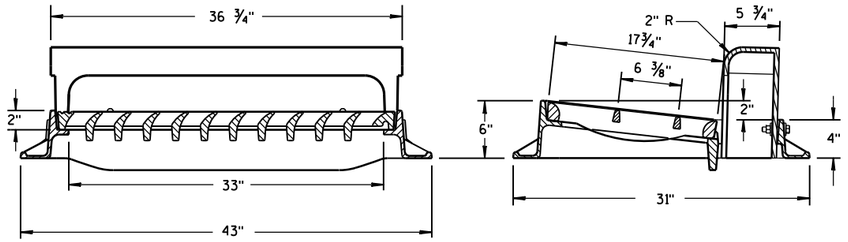


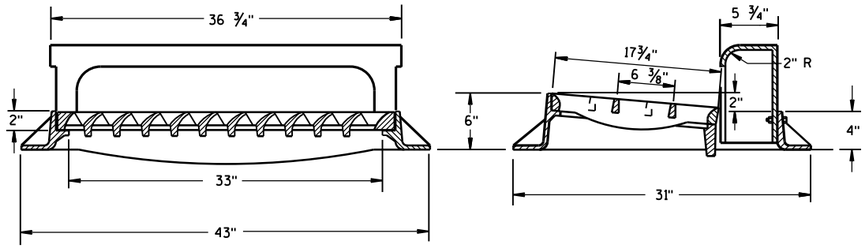
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

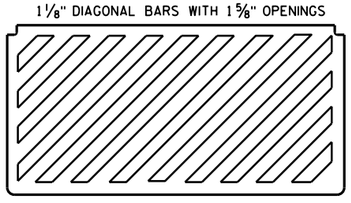






TYPE "H"

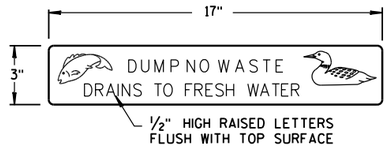
NOTE: EITHER CASTING IS ACCEPTABLE



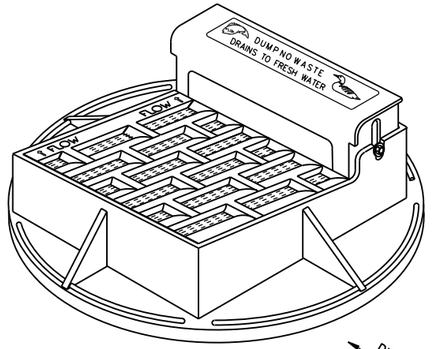
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

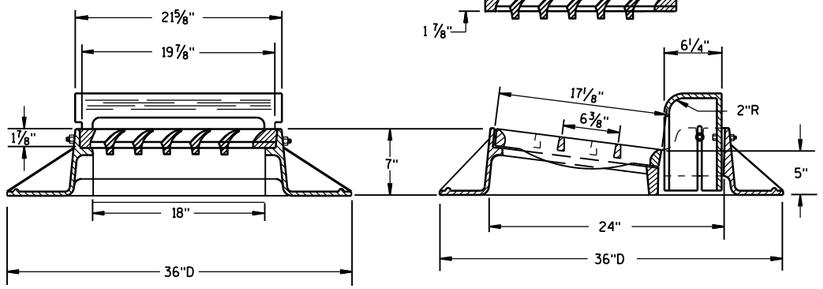


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



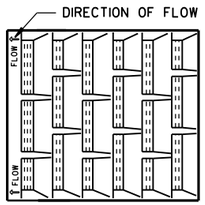
TYPE "A"

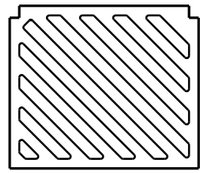
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

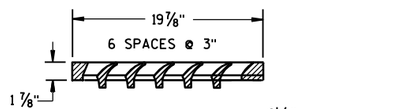


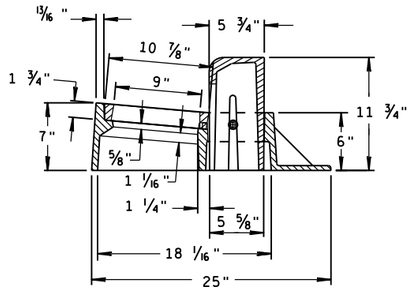


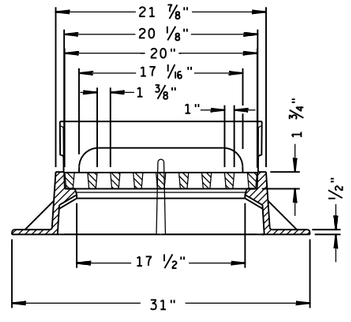
SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8")

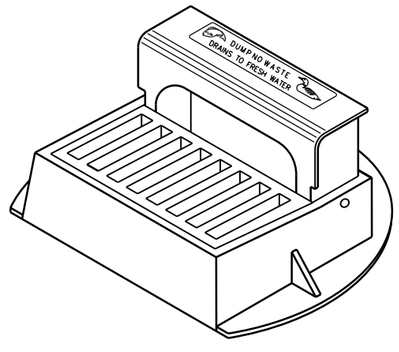
(NOTED AS TYPE A-S ON DRAINAGE TABLE)







TYPE "Z"



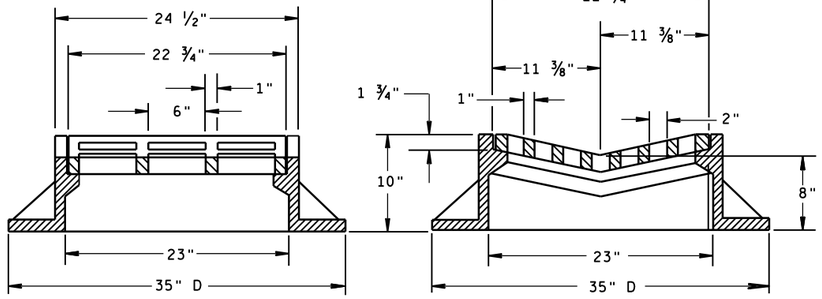
INLET COVERS
TYPE A, H, A-S, H-S & Z

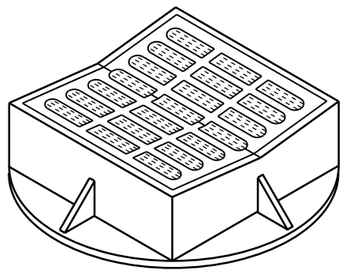
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

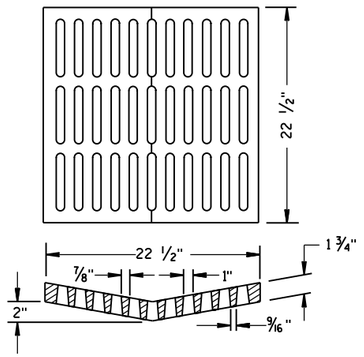
6

S.D.D. 8 A 5-19a



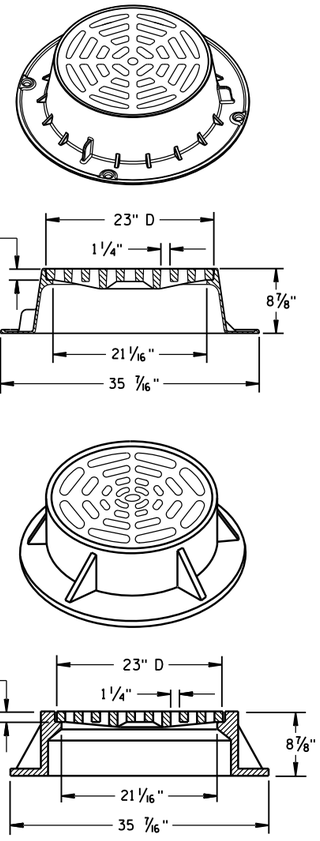


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

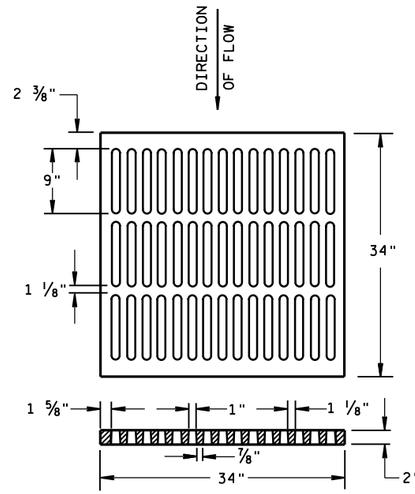
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

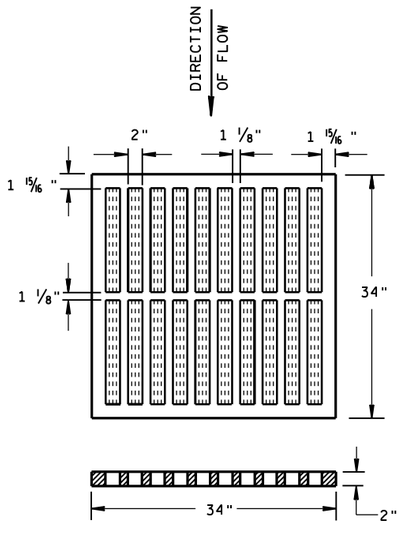
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



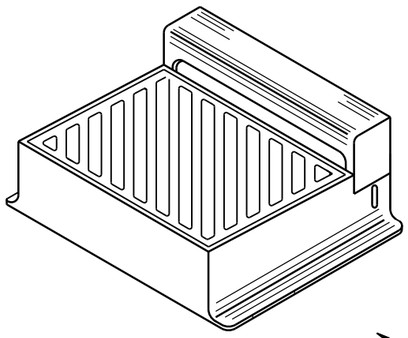
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

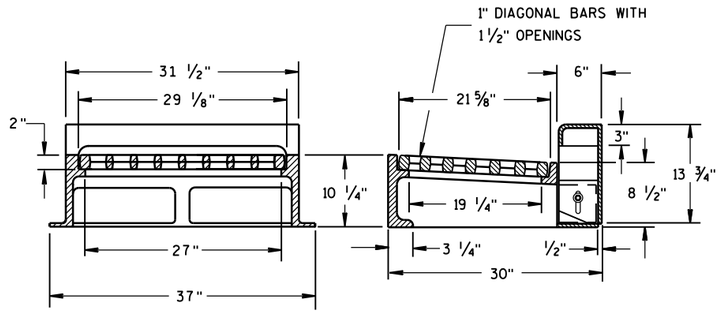


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

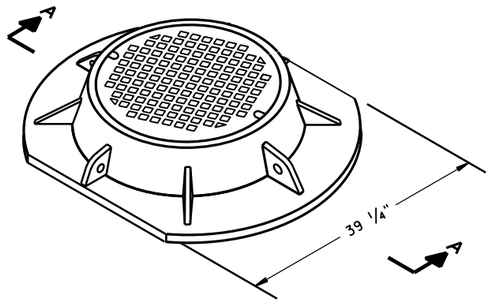
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

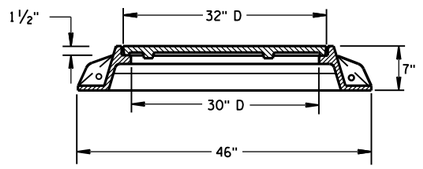
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

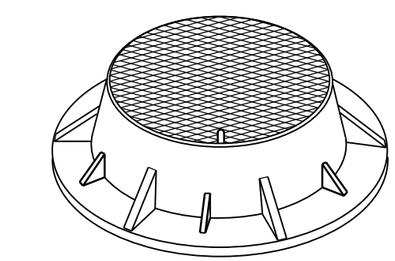
6

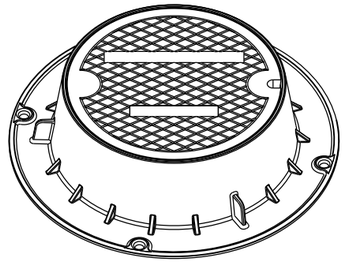
S.D.D. 8 A 5-19b

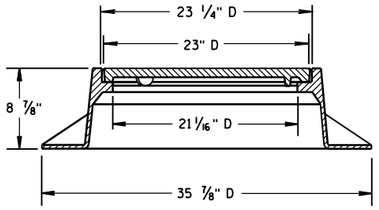


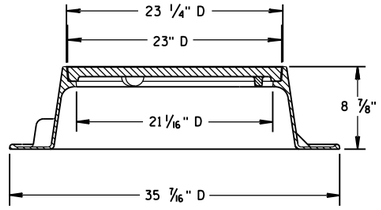


SECTION A-A
TYPE "K"









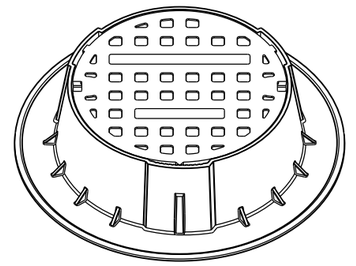
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

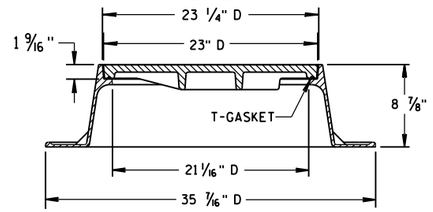
GENERAL NOTES

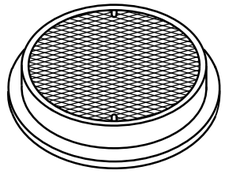
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

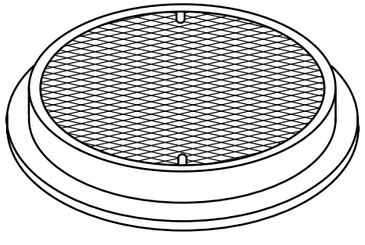
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

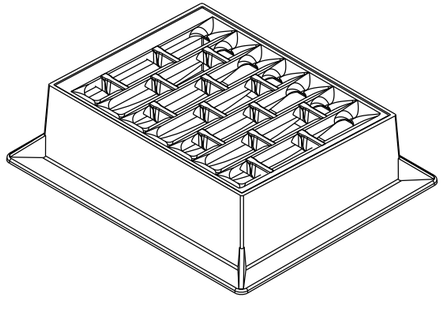
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

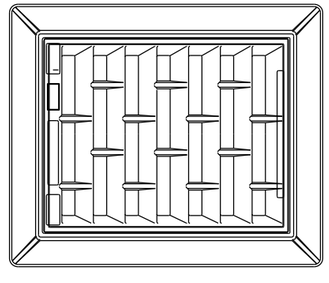


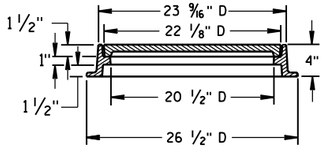




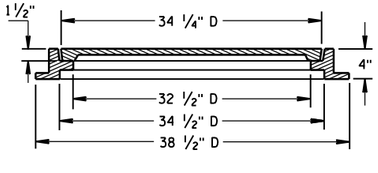




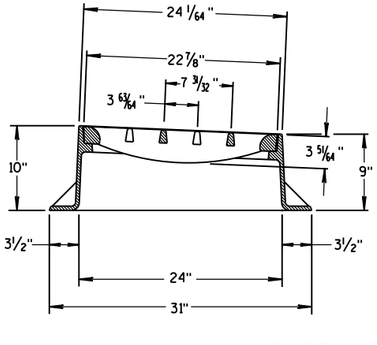


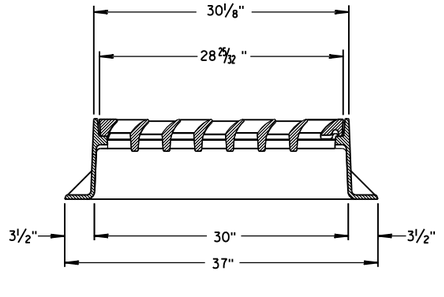


TYPE "L"

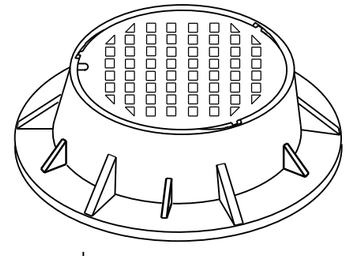


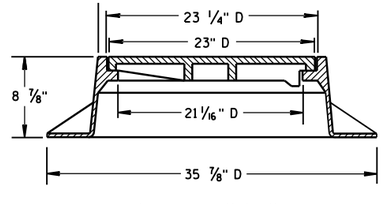
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

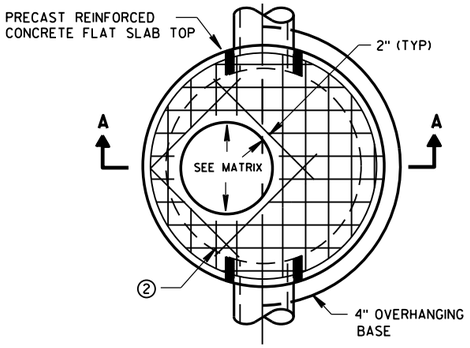
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

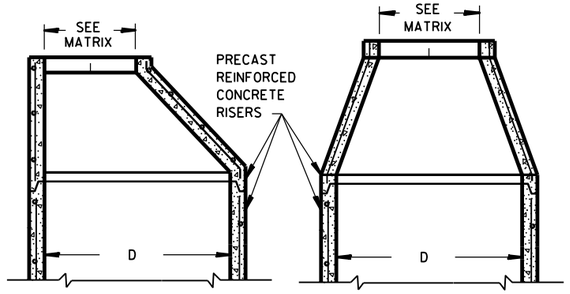
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

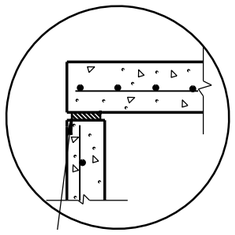


PLAN VIEW CIRCULAR OPENING

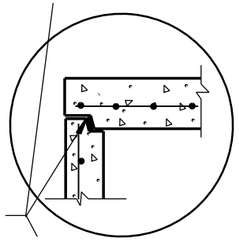


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

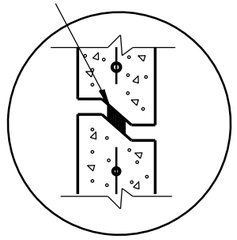


TOP WITH PLAIN END JOINT



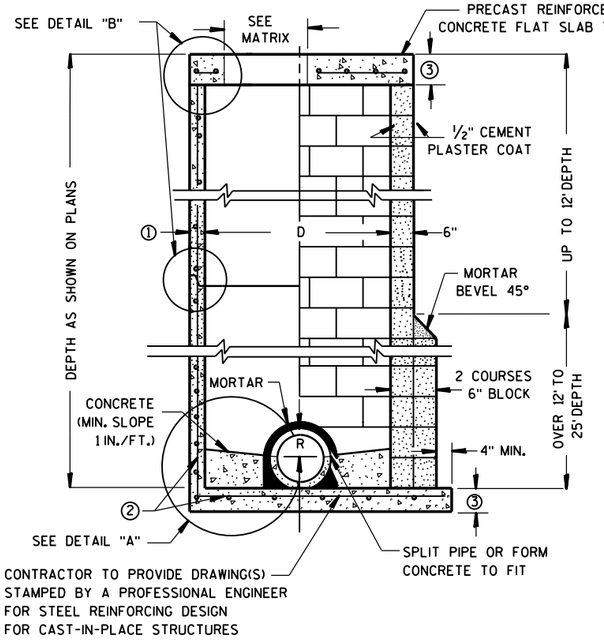
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



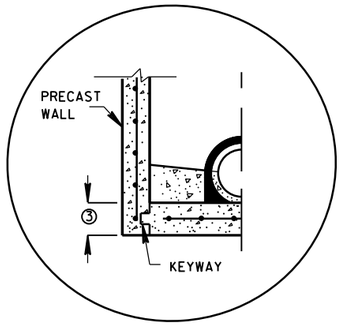
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

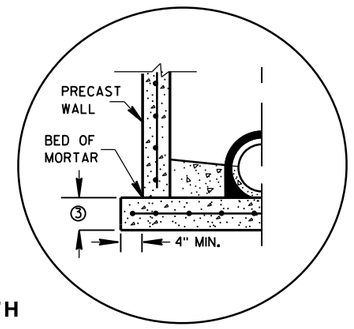


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

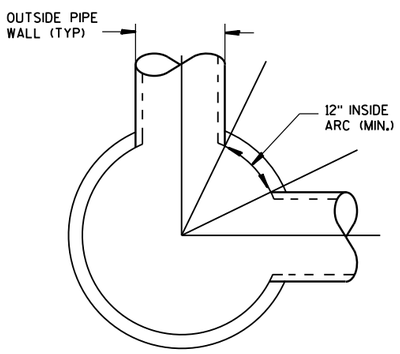


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

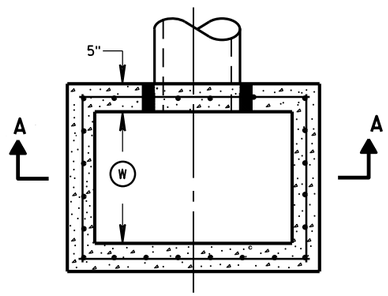
APPROVED

Sept., 2016
DATE

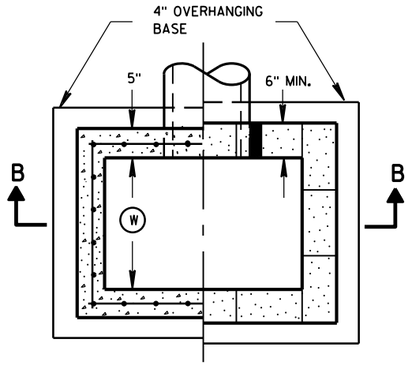
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

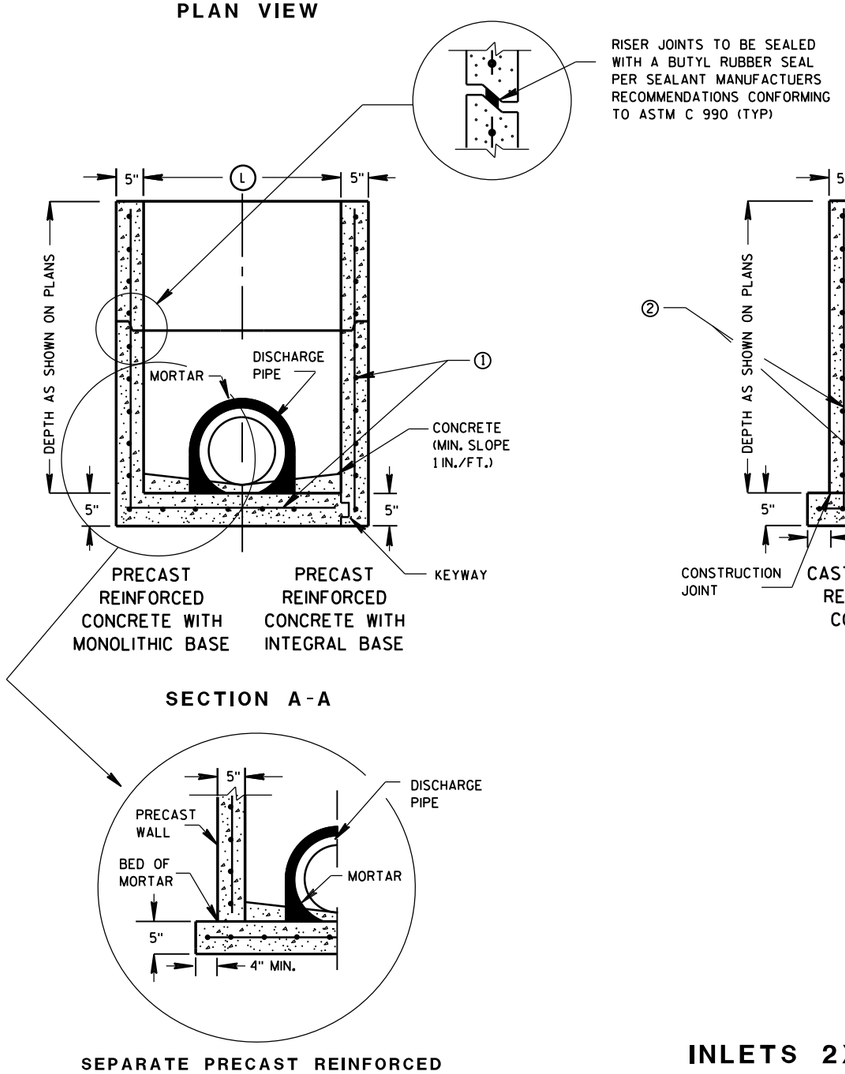
6
S.D.D. 8 B 9-2



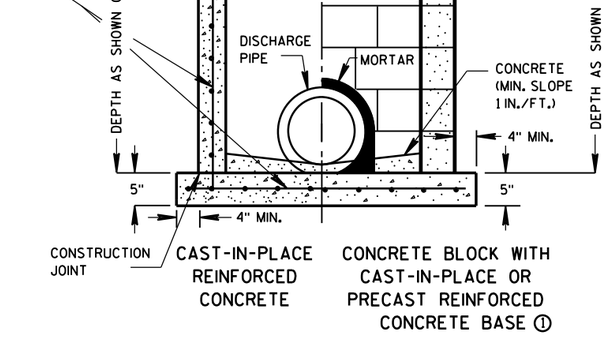
PLAN VIEW



PLAN VIEW



SECTION A-A



SECTION B-B

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

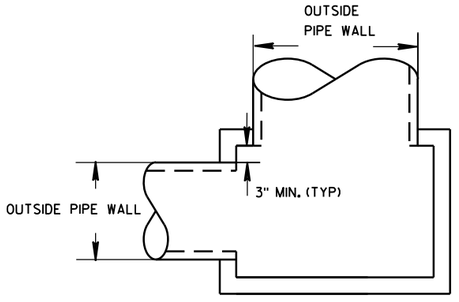
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

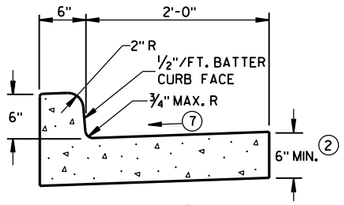
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

6

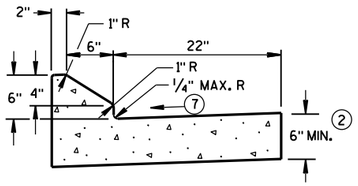
S.D.D. 8 C 7-2

6

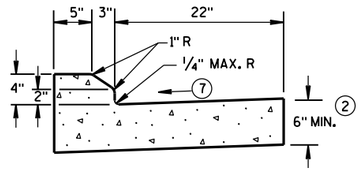
S.D.D. 8 C 7-2



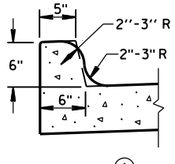
TYPES A (1) & D



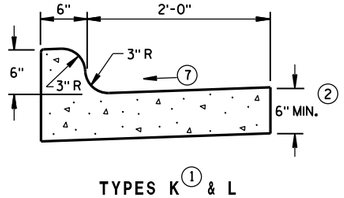
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

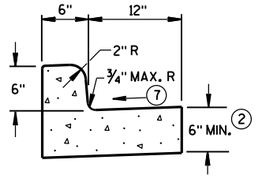


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



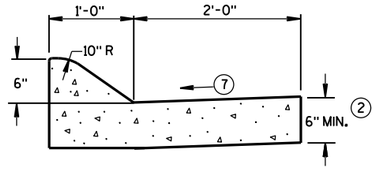
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

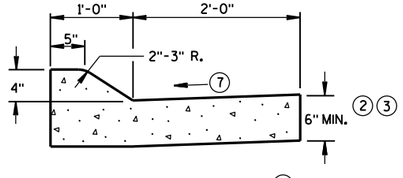


TYPES A (1) & D

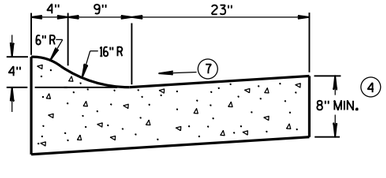
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

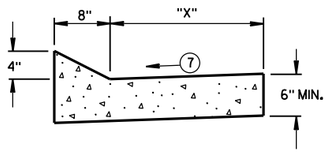


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

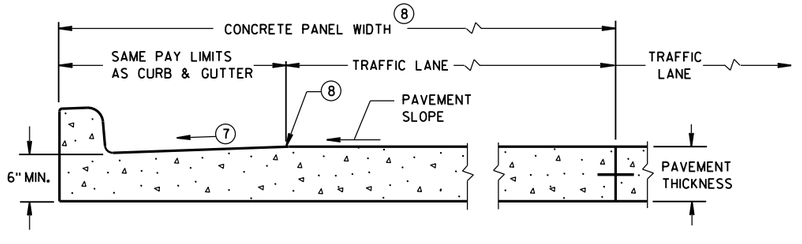
CONCRETE CURB & GUTTER 36"



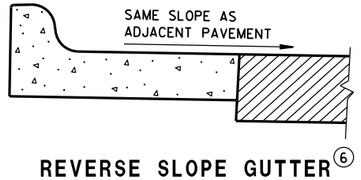
TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

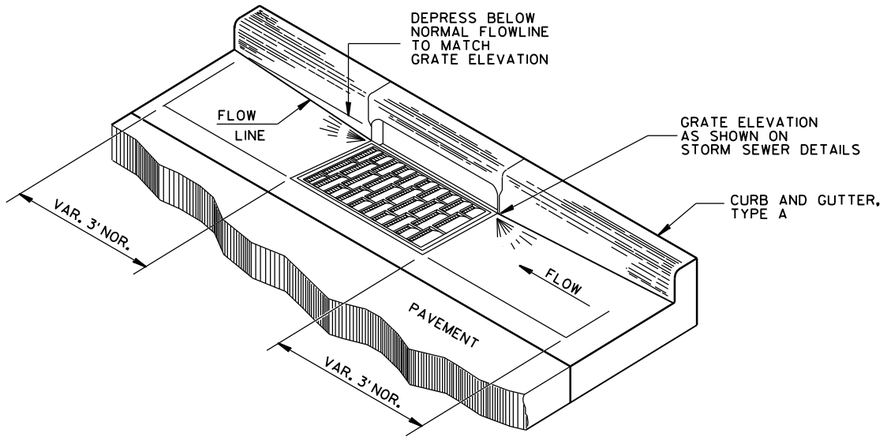
PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

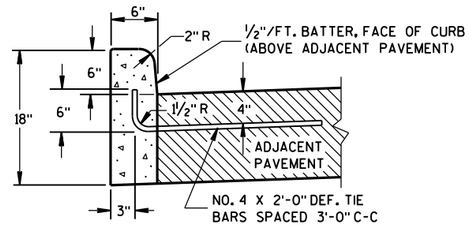
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

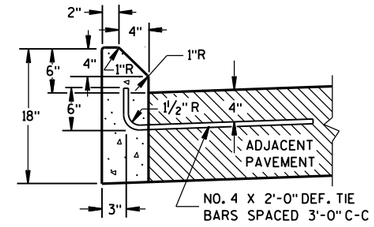
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

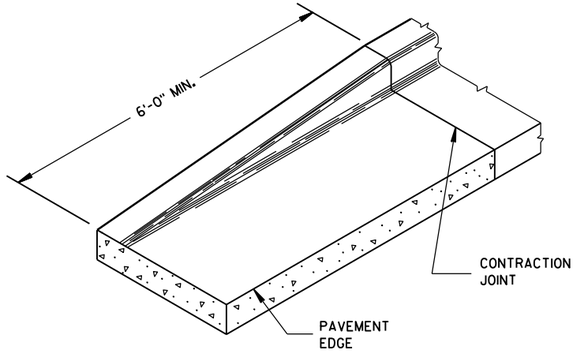


TYPES A (1) & D

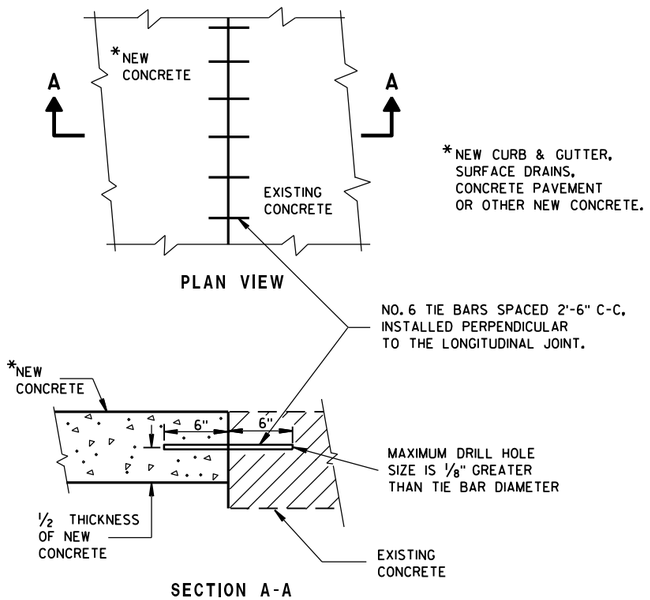


TYPES G (1) & J

CONCRETE CURB



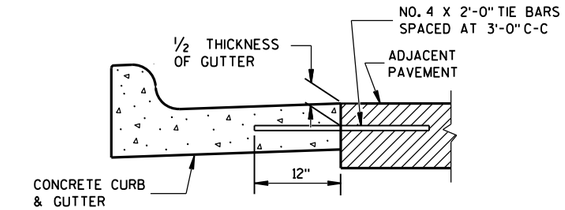
END SECTION CURB & GUTTER



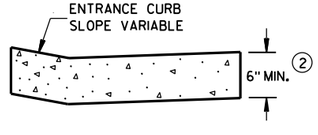
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

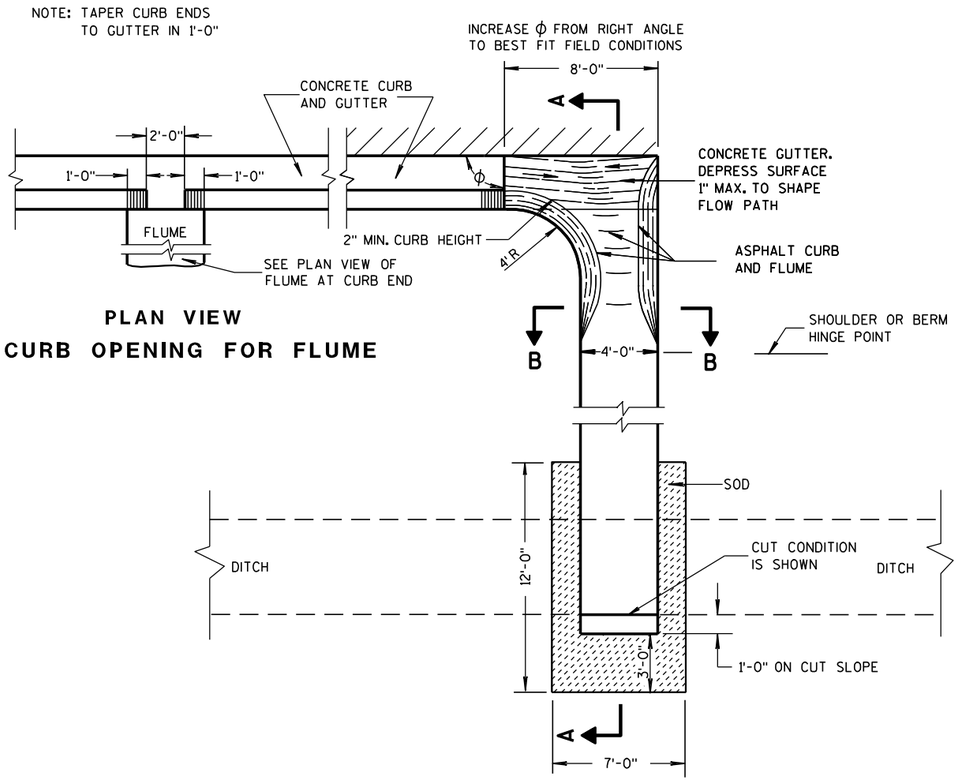
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
85 — ENT
FHWA

6

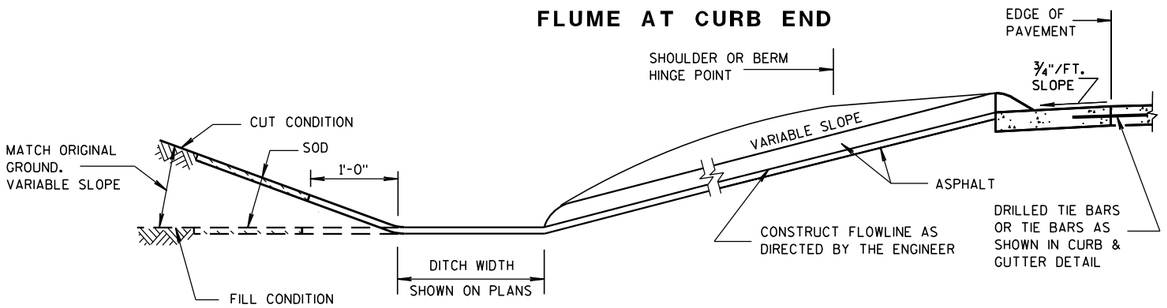
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

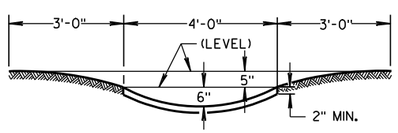


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

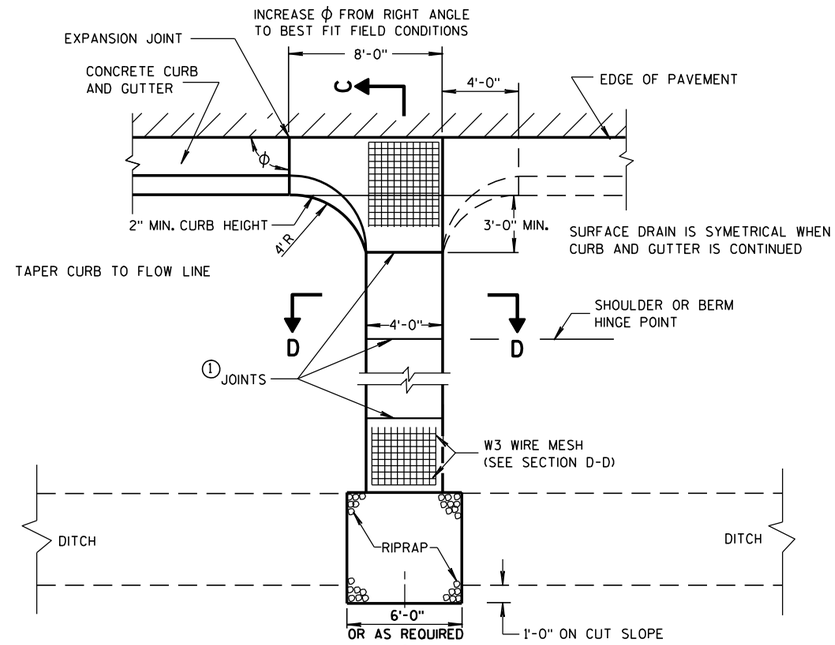
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

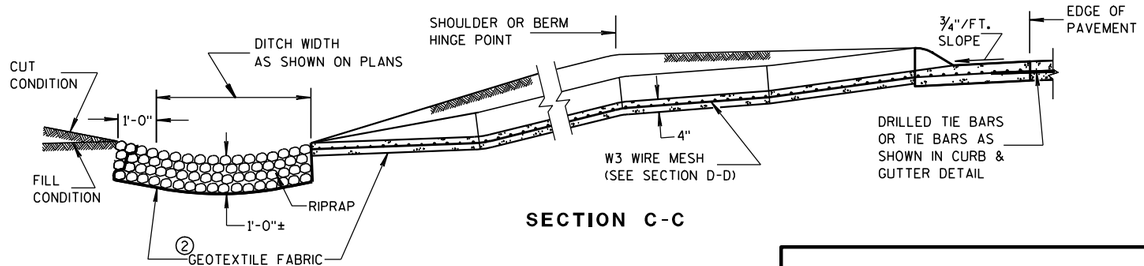
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

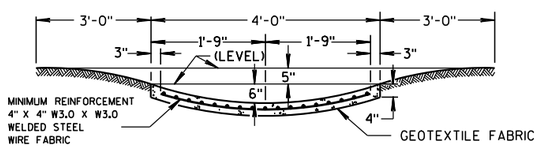
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT

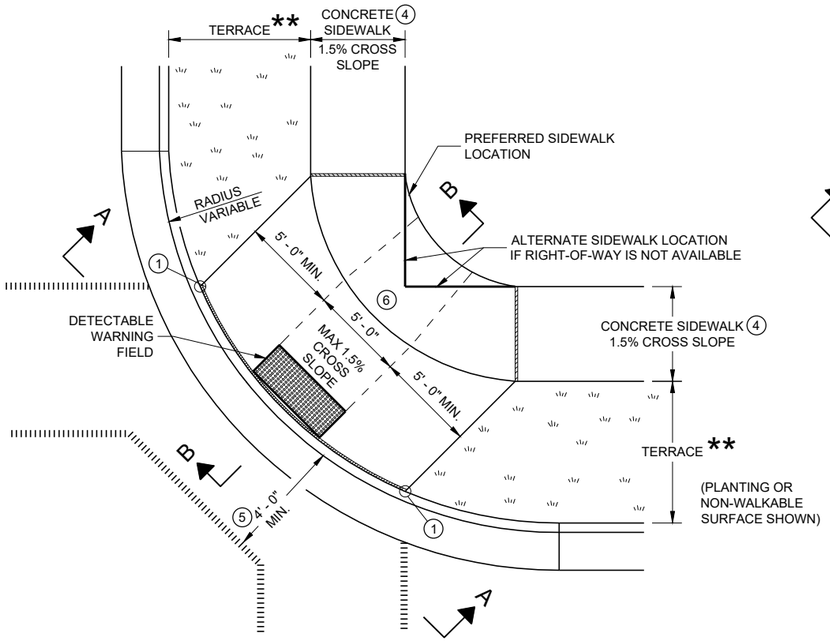
FHWA

6

S.D.D. 8 D 4-5

6

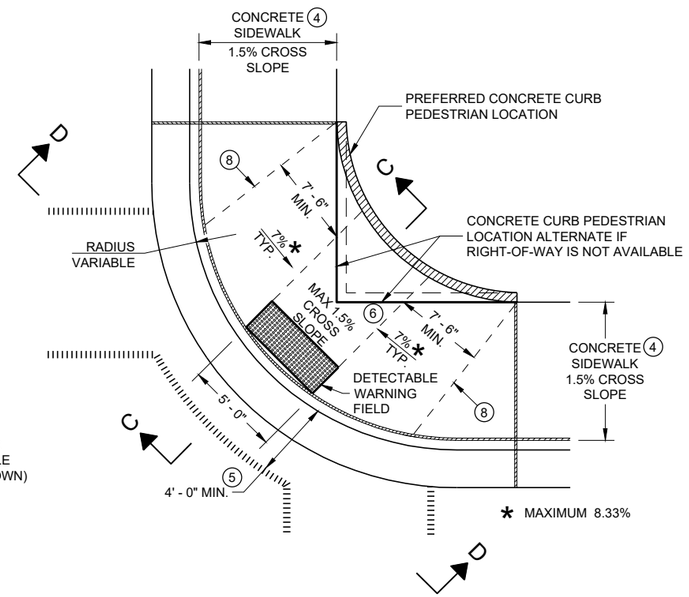
S.D.D. 8 D 4-5



PLAN VIEW

CURB RAMP TYPE 1

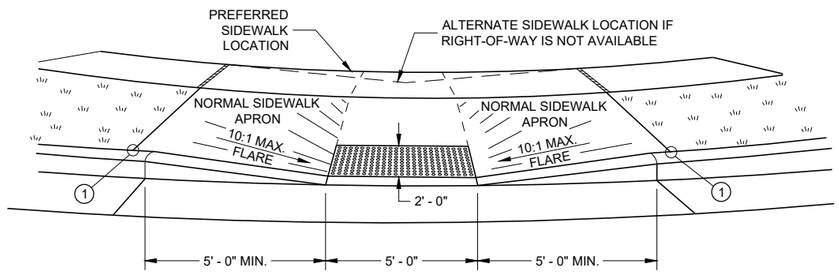
(CENTER OF CORNER RADIUS)



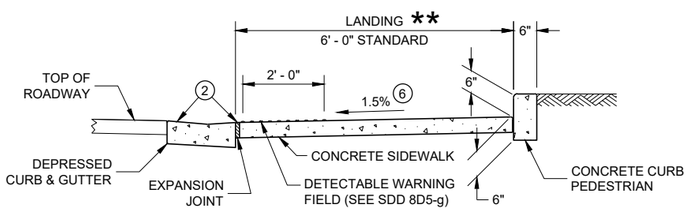
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

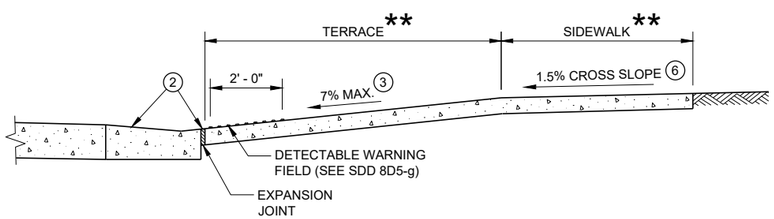


VIEW A - A FOR TYPE 1

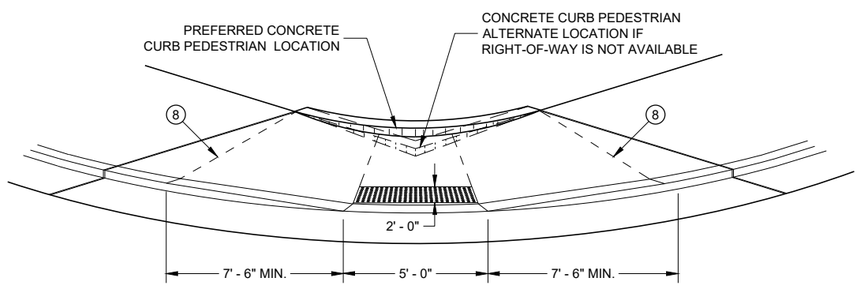


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

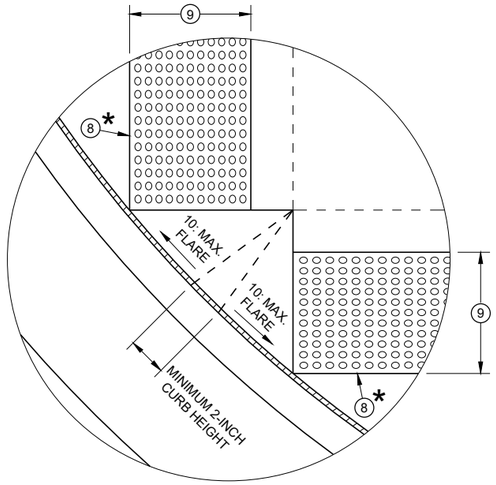
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

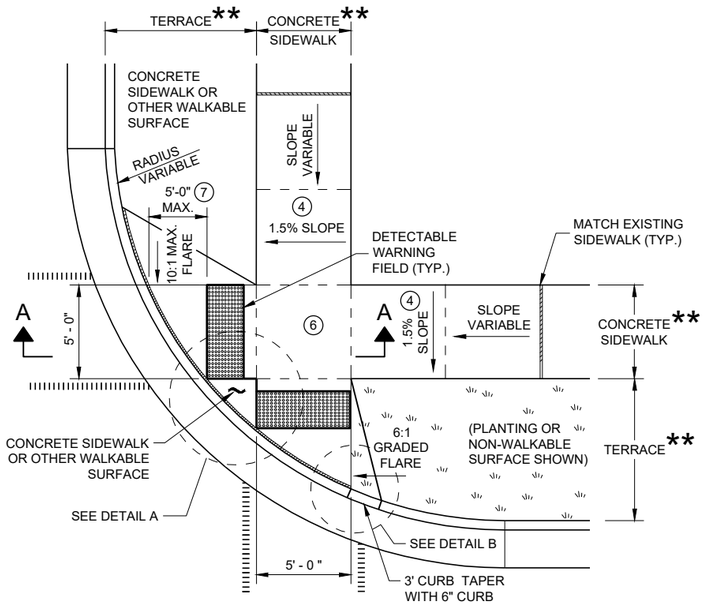
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

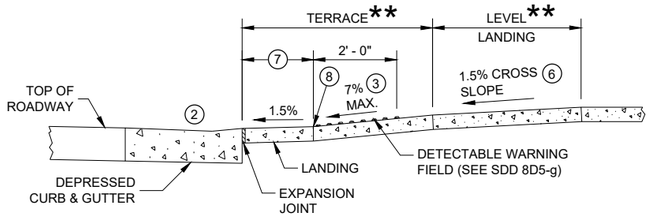
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

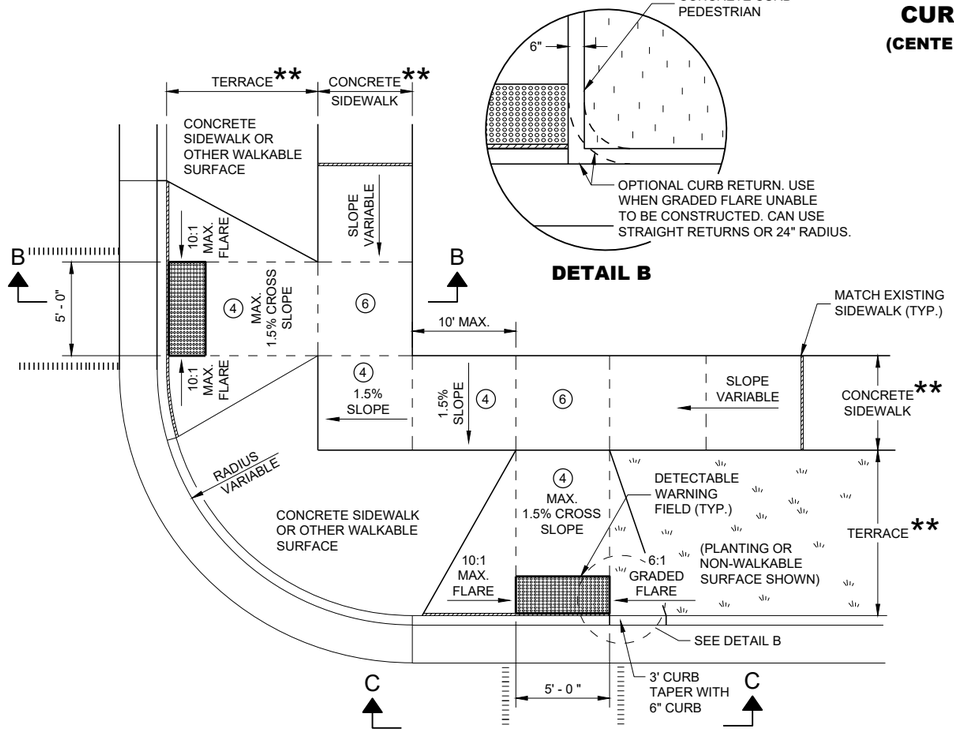
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

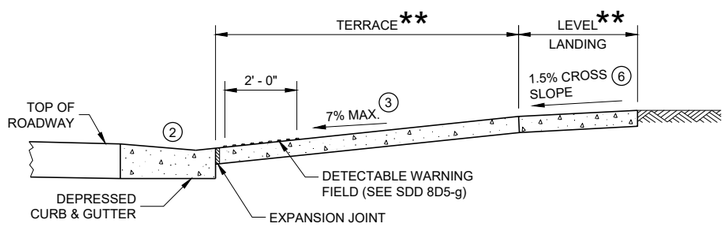
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

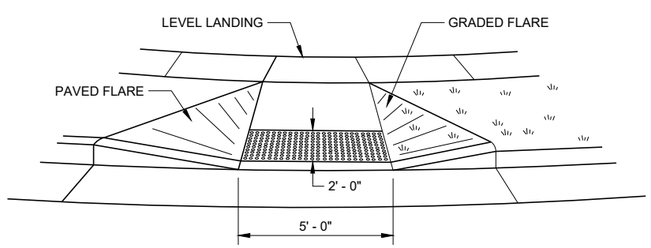
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

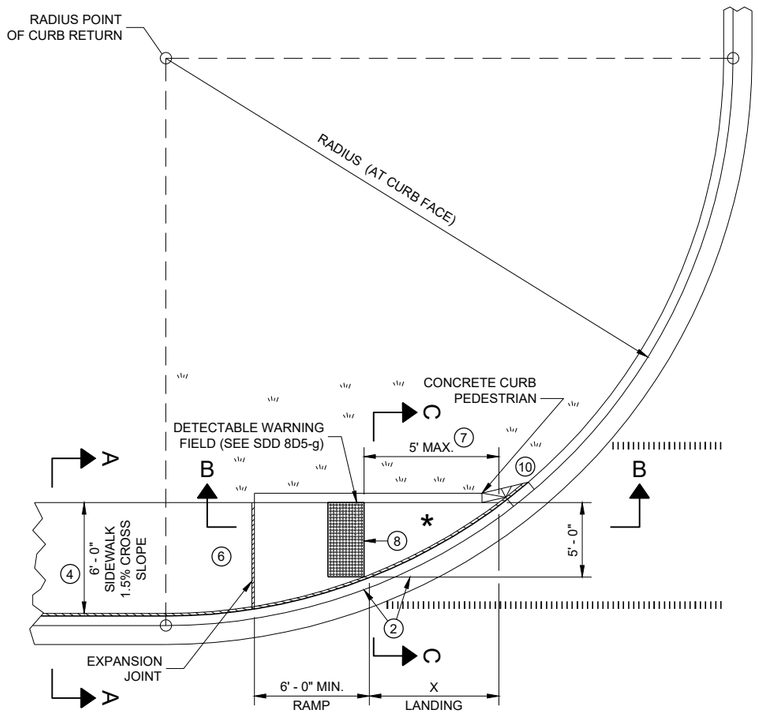
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

6

SDD 08D05 - 20b

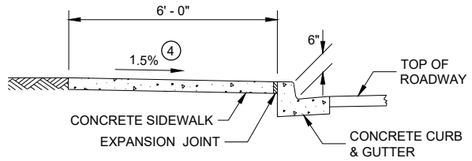


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

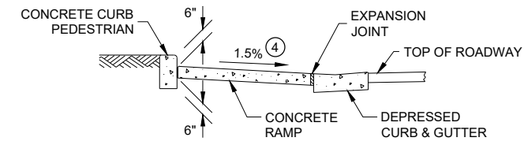
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

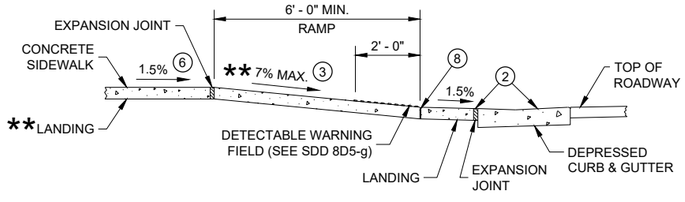
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



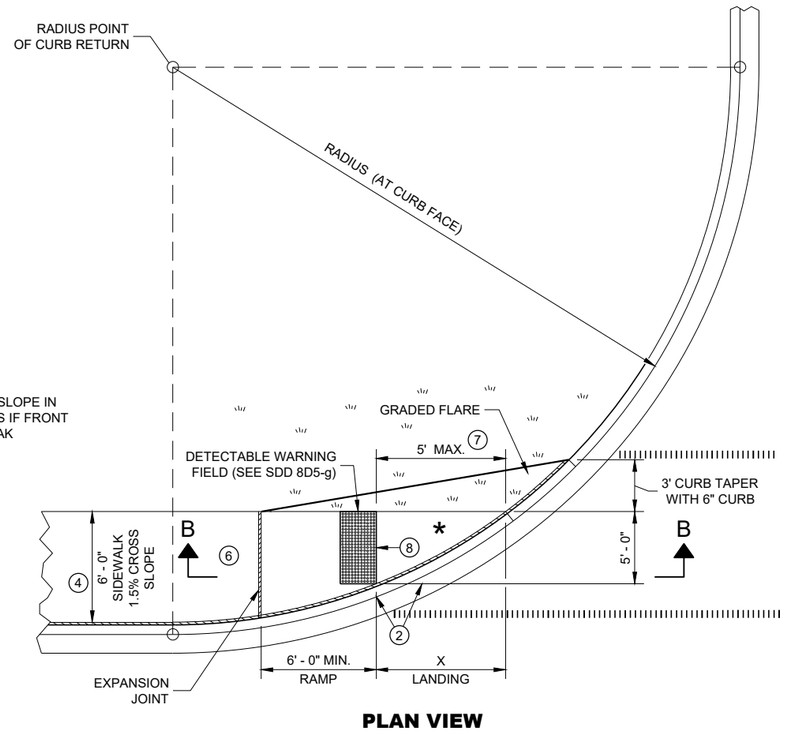
SECTION C - C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

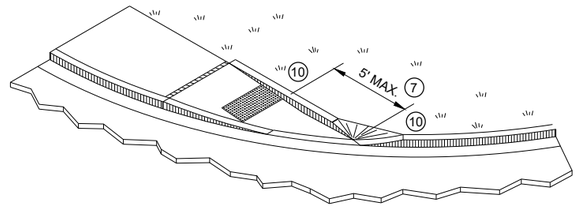
SECTION B - B FOR TYPE 4A AND TYPE 4A1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

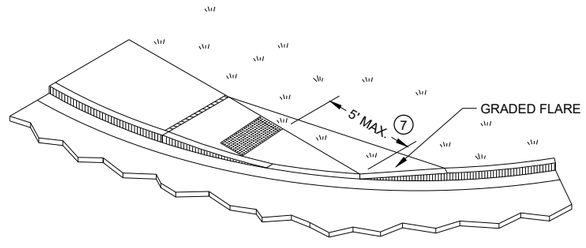


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



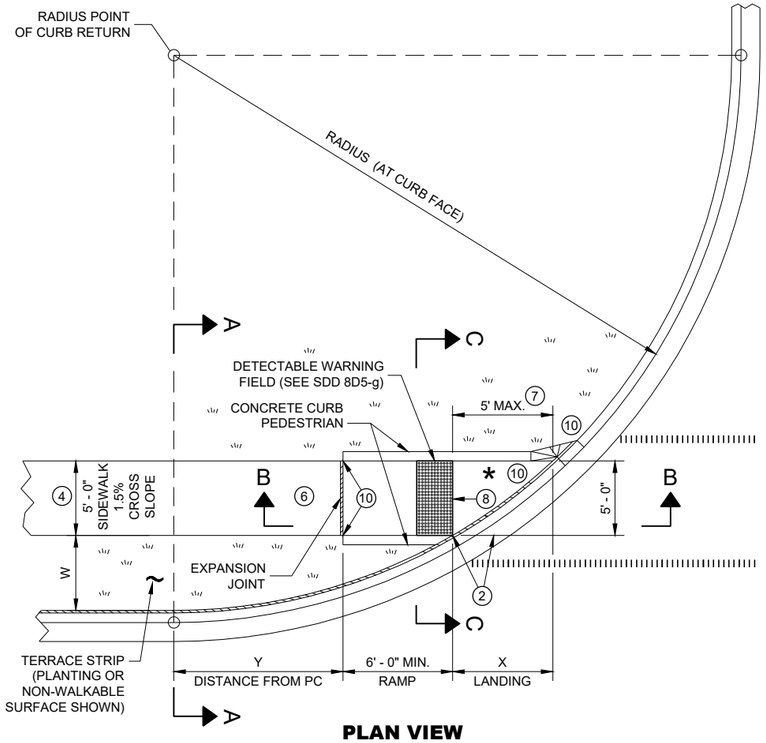
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c

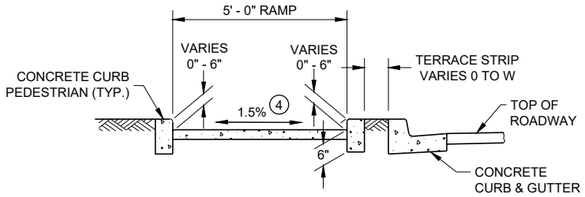


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

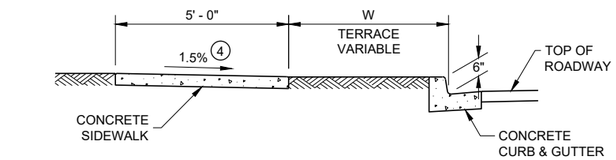
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

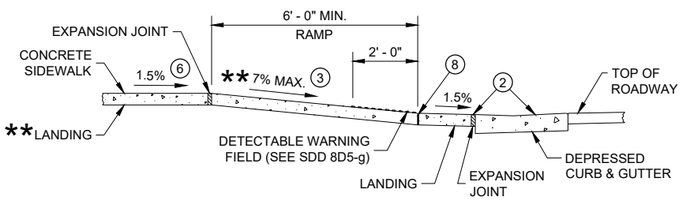
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



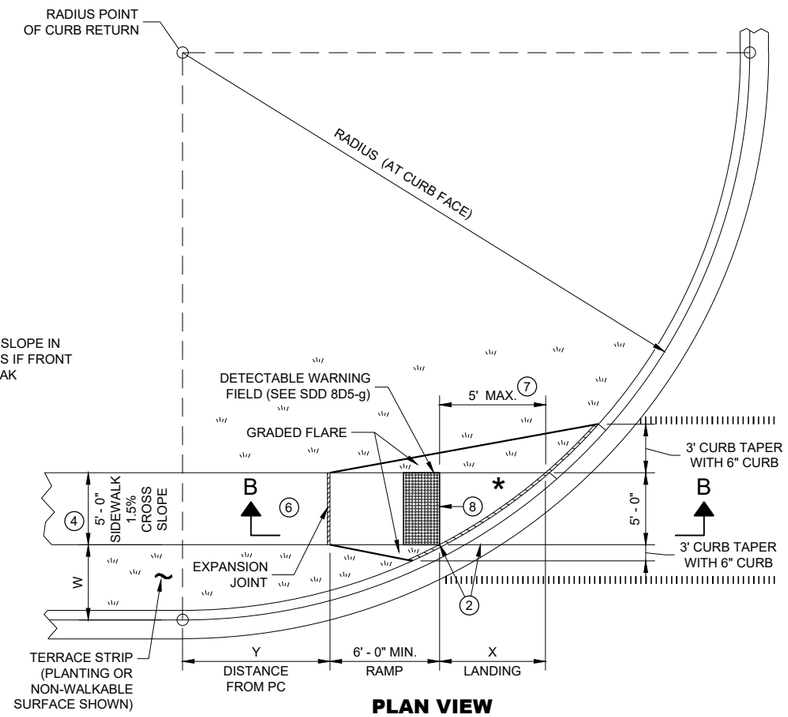
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

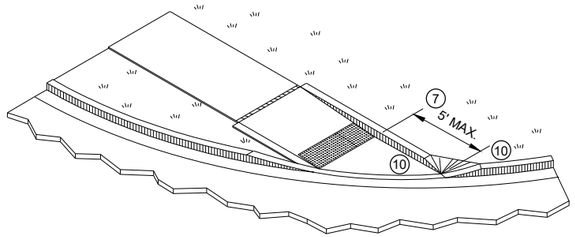
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

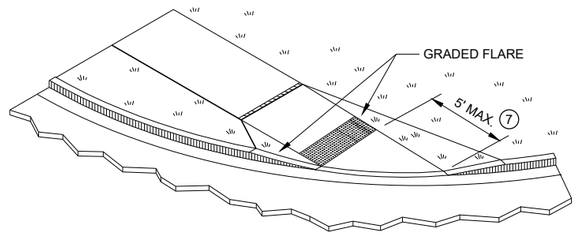


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



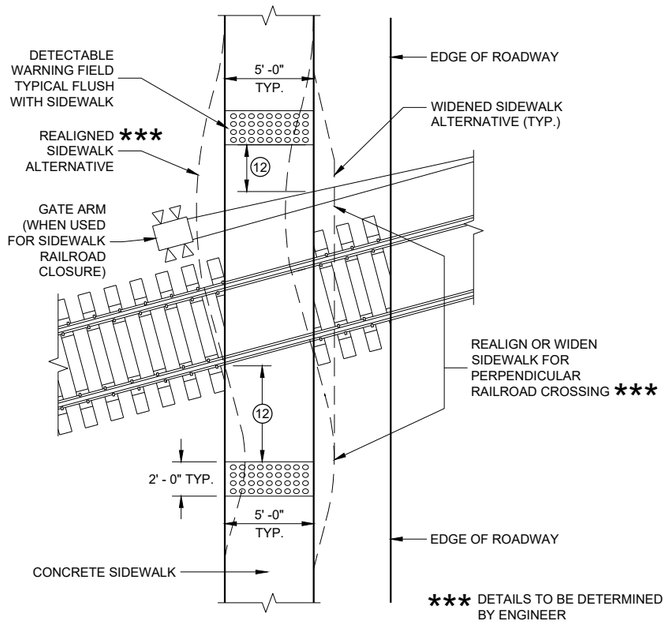
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

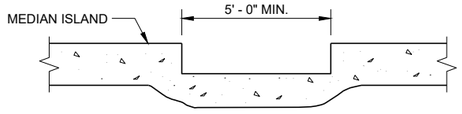
6

SDD 08D05 - 20d

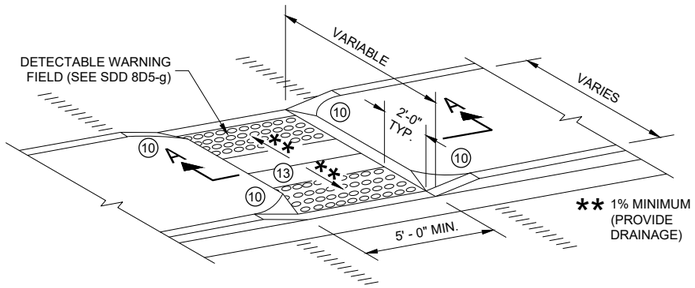


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

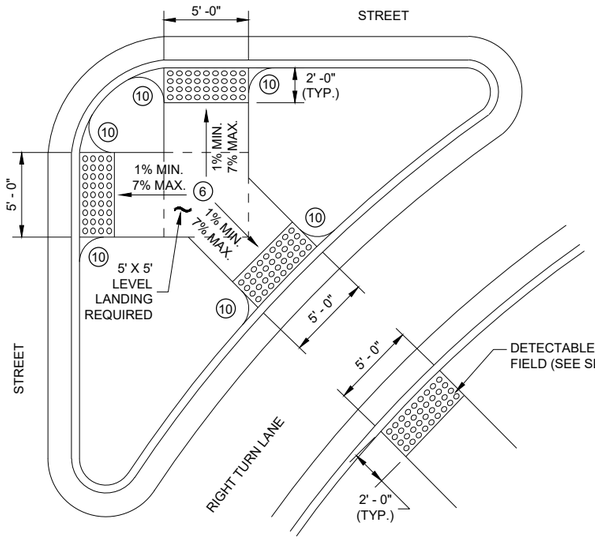
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

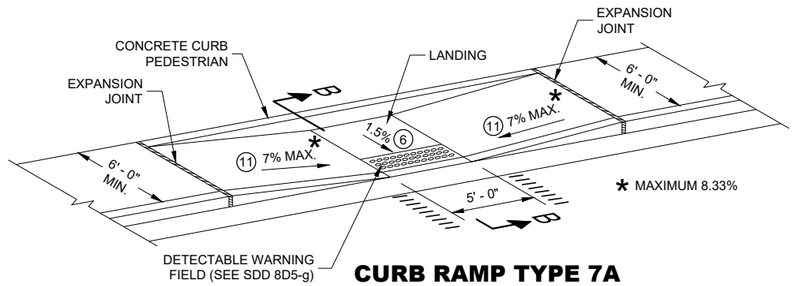
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

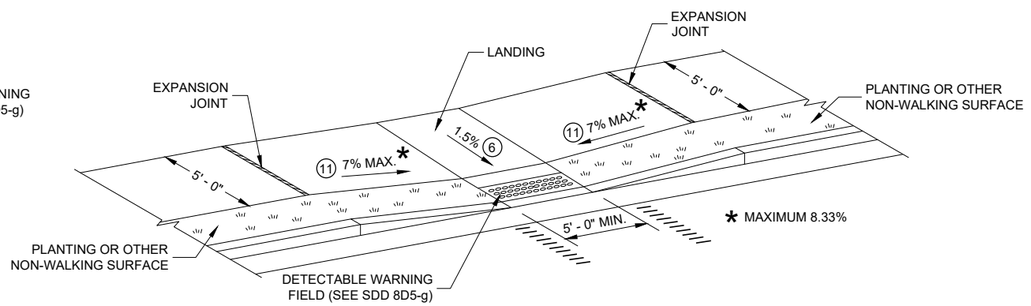
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

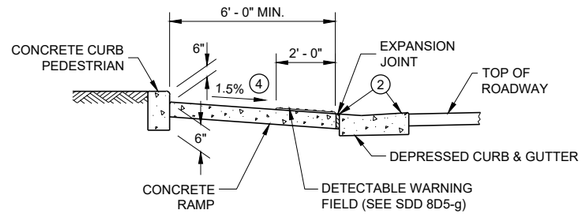
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



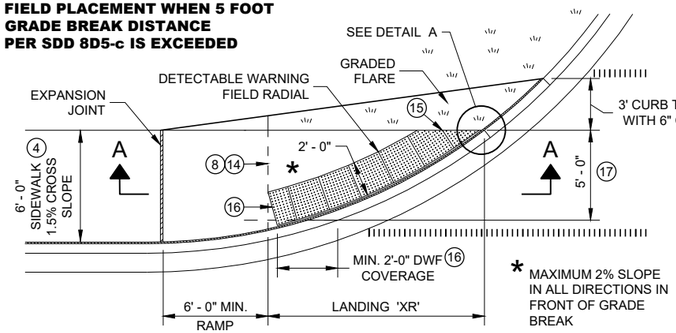
SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D05 - 20e

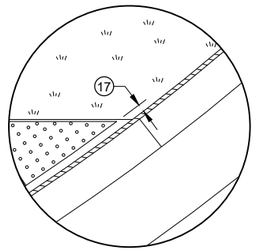
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



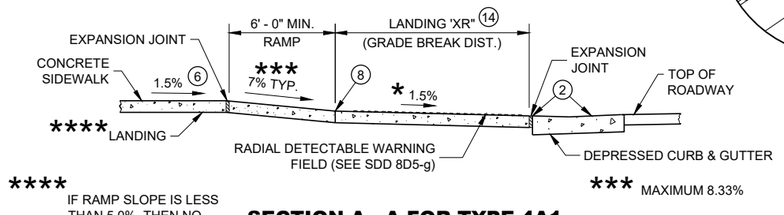
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A



SECTION A - A FOR TYPE 4A1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

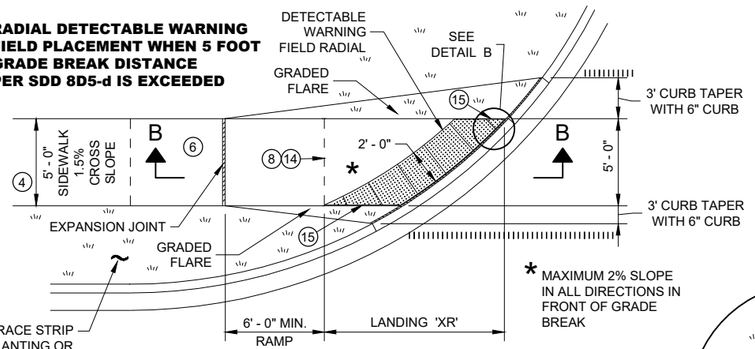
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

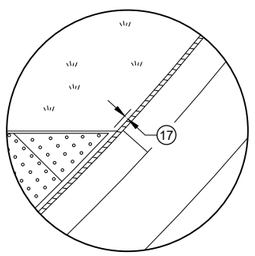
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



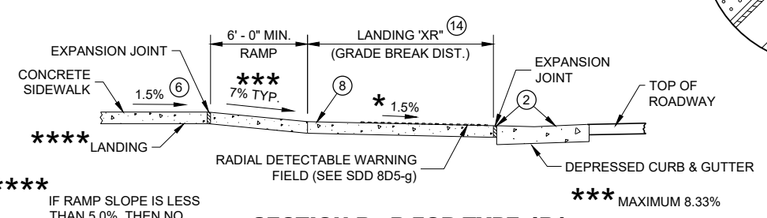
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

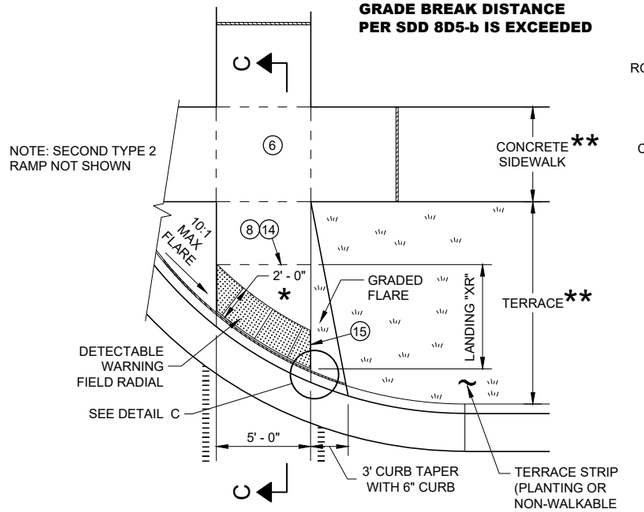


DETAIL B



SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

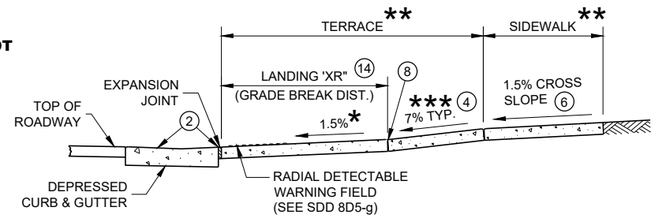


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

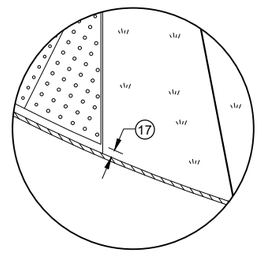


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

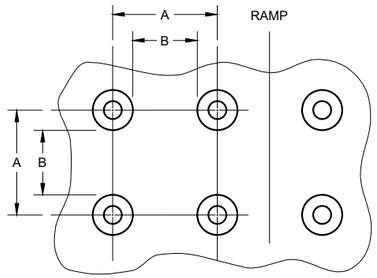
CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

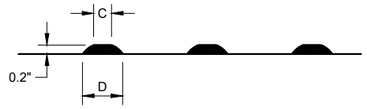
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

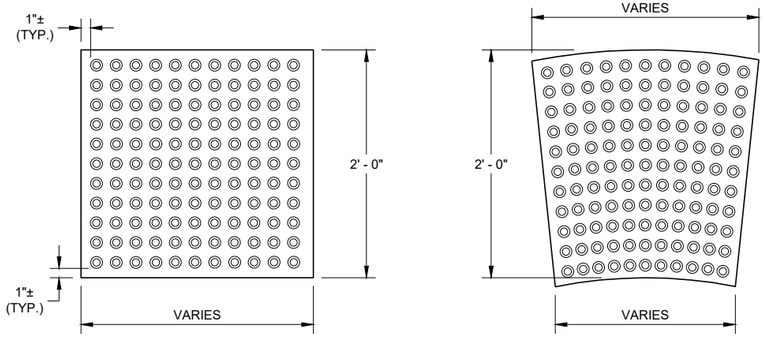


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

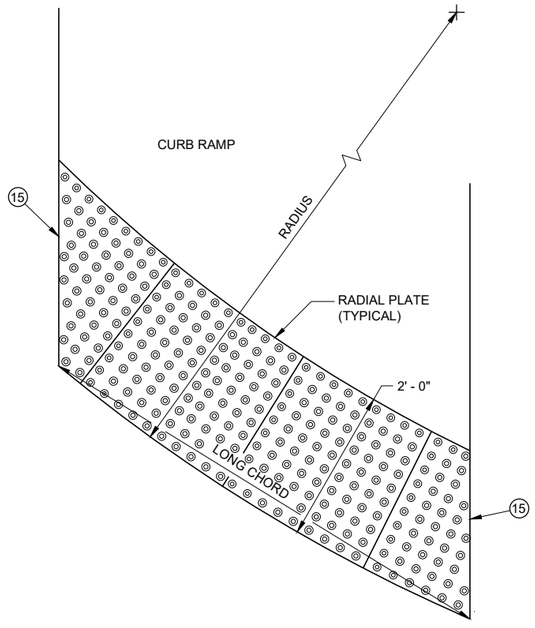
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

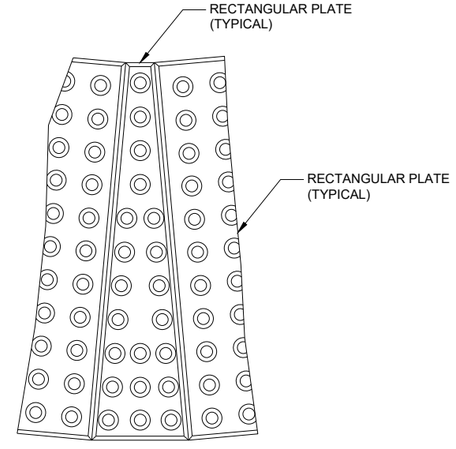
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

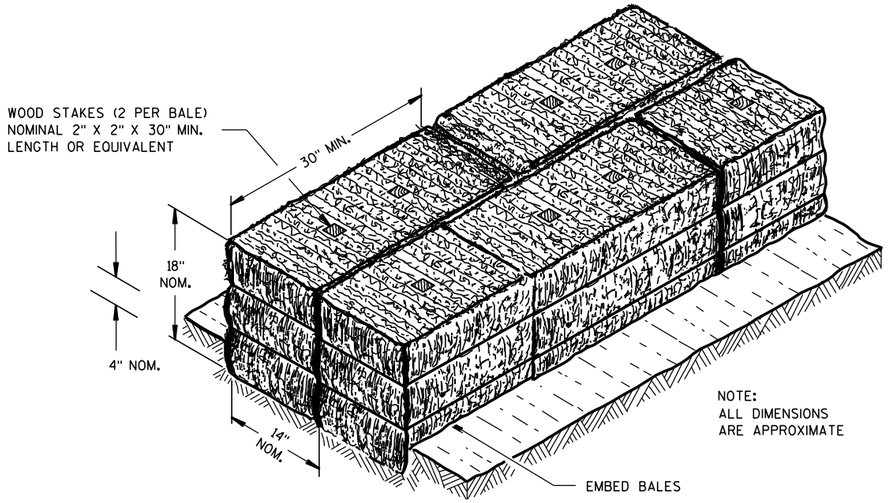
FHWA

6

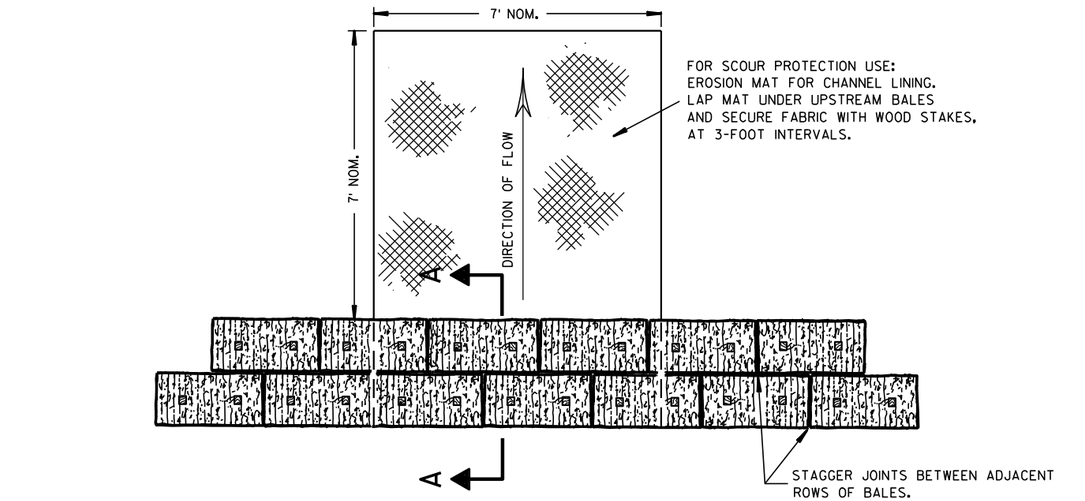
SDD 08D05 - 20g

6

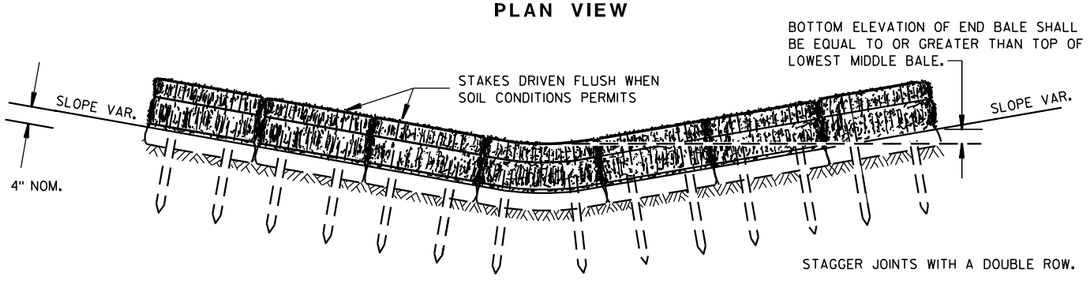
SDD 08D05 - 20g



SECTION A-A



PLAN VIEW



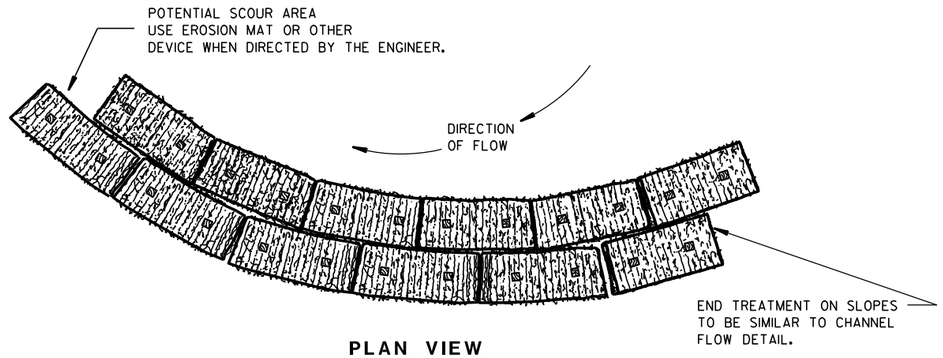
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

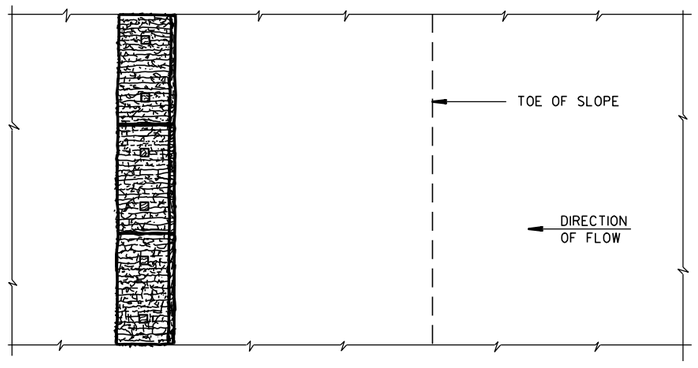
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

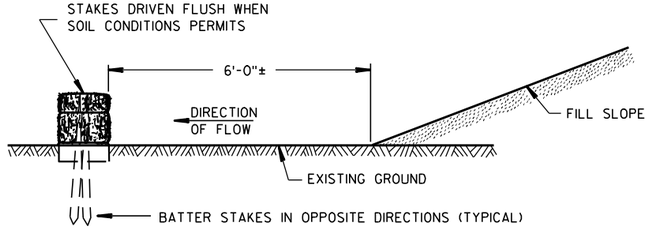


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

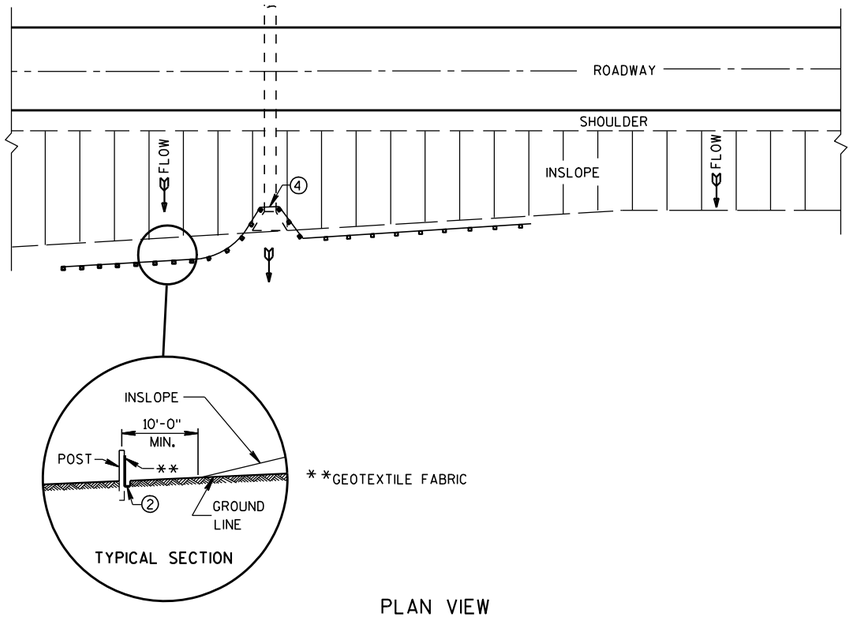
FHWA

6

S.D.D. 8 E 8-3

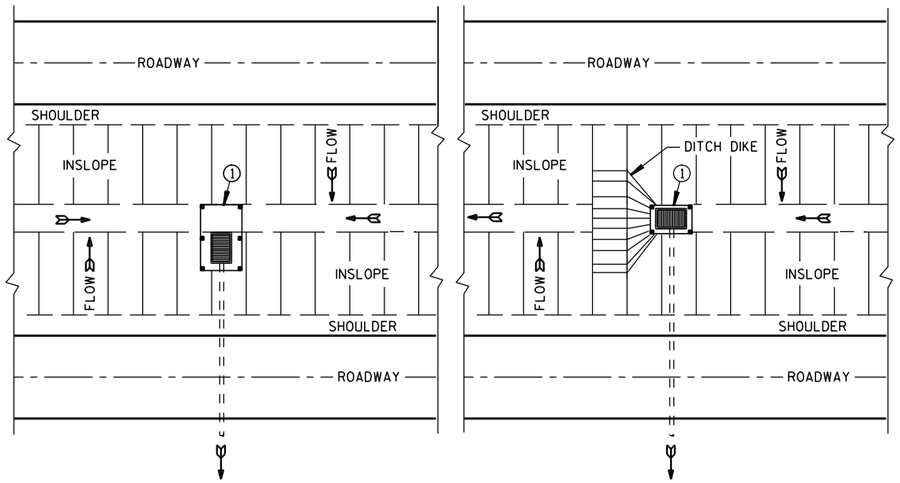
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



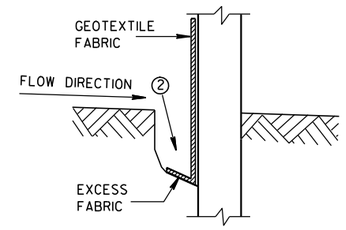
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

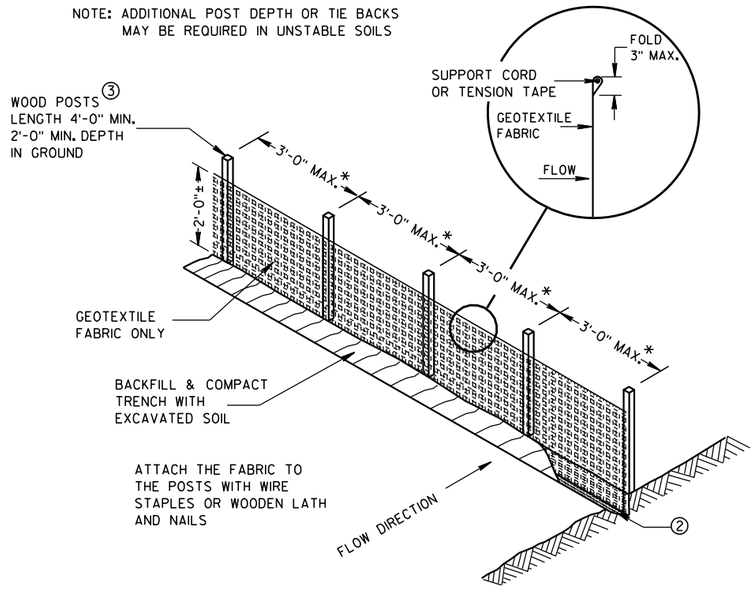
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

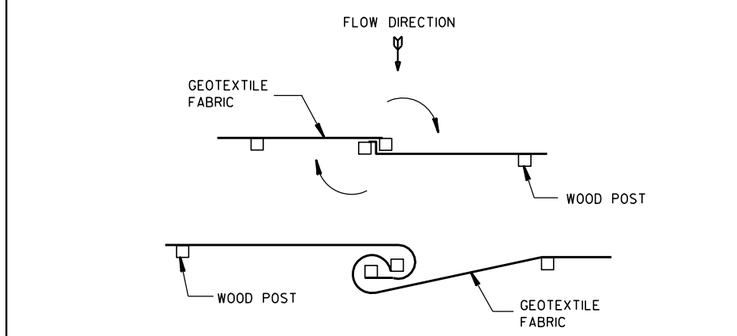
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



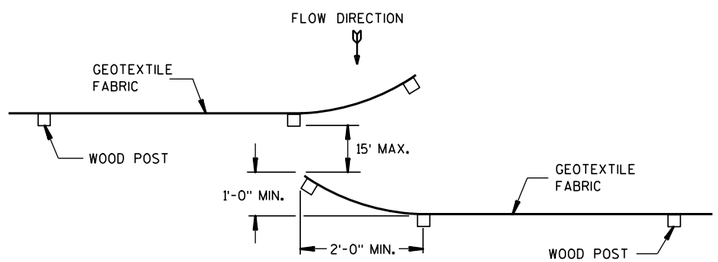
TRENCH DETAIL



SILT FENCE

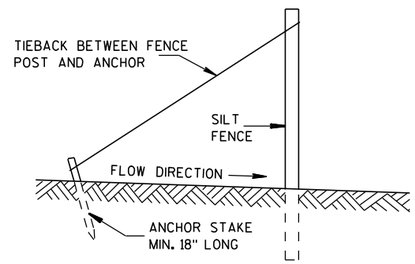


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

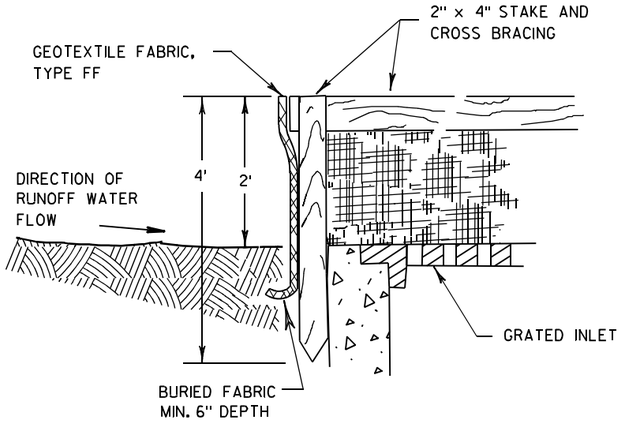
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

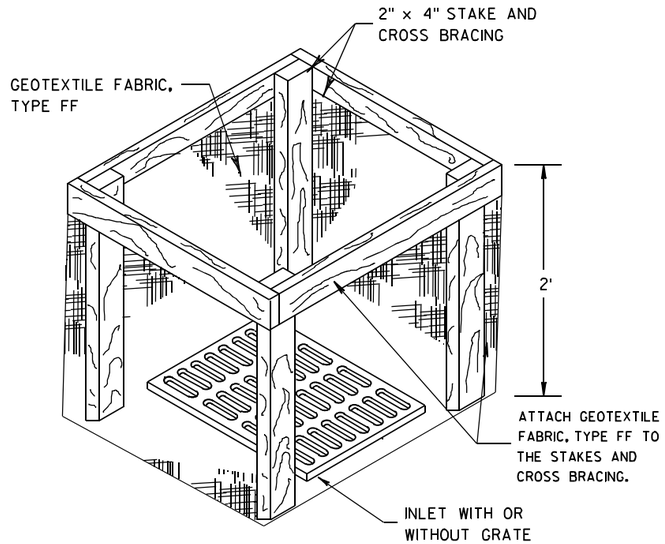
6

S.D.D. 8 E 9-6

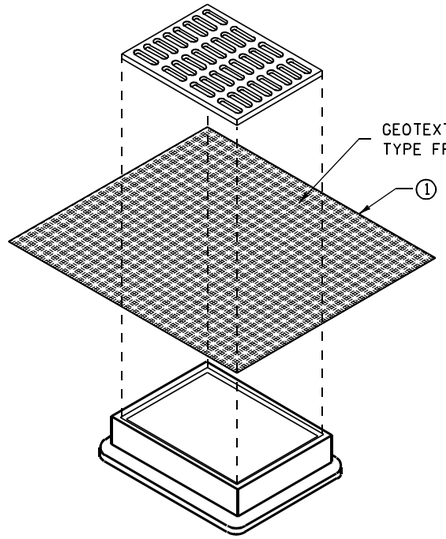
6

S.D.D. 8 E 9-6



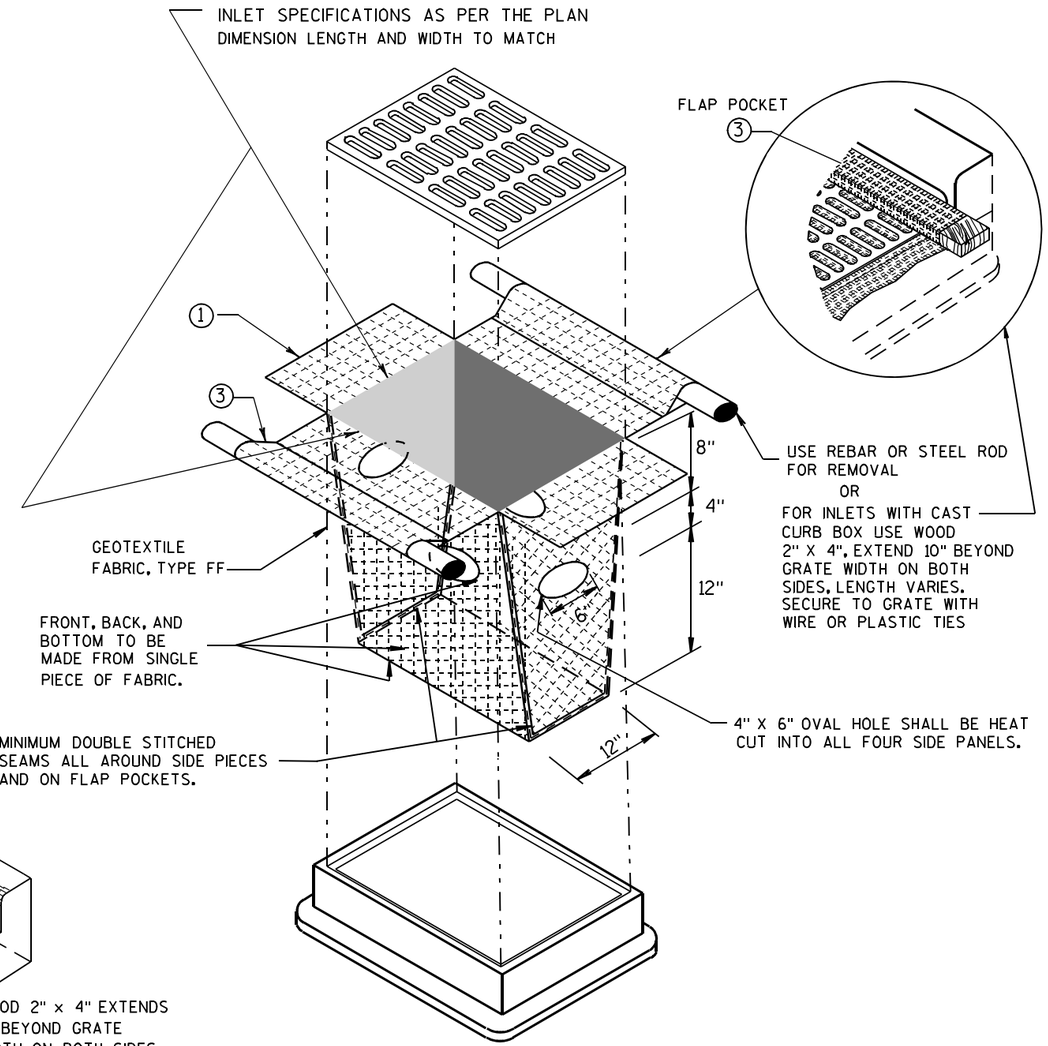


INLET PROTECTION, TYPE A



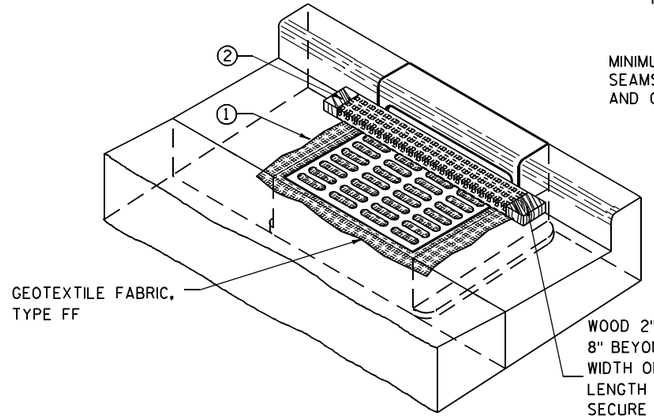
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

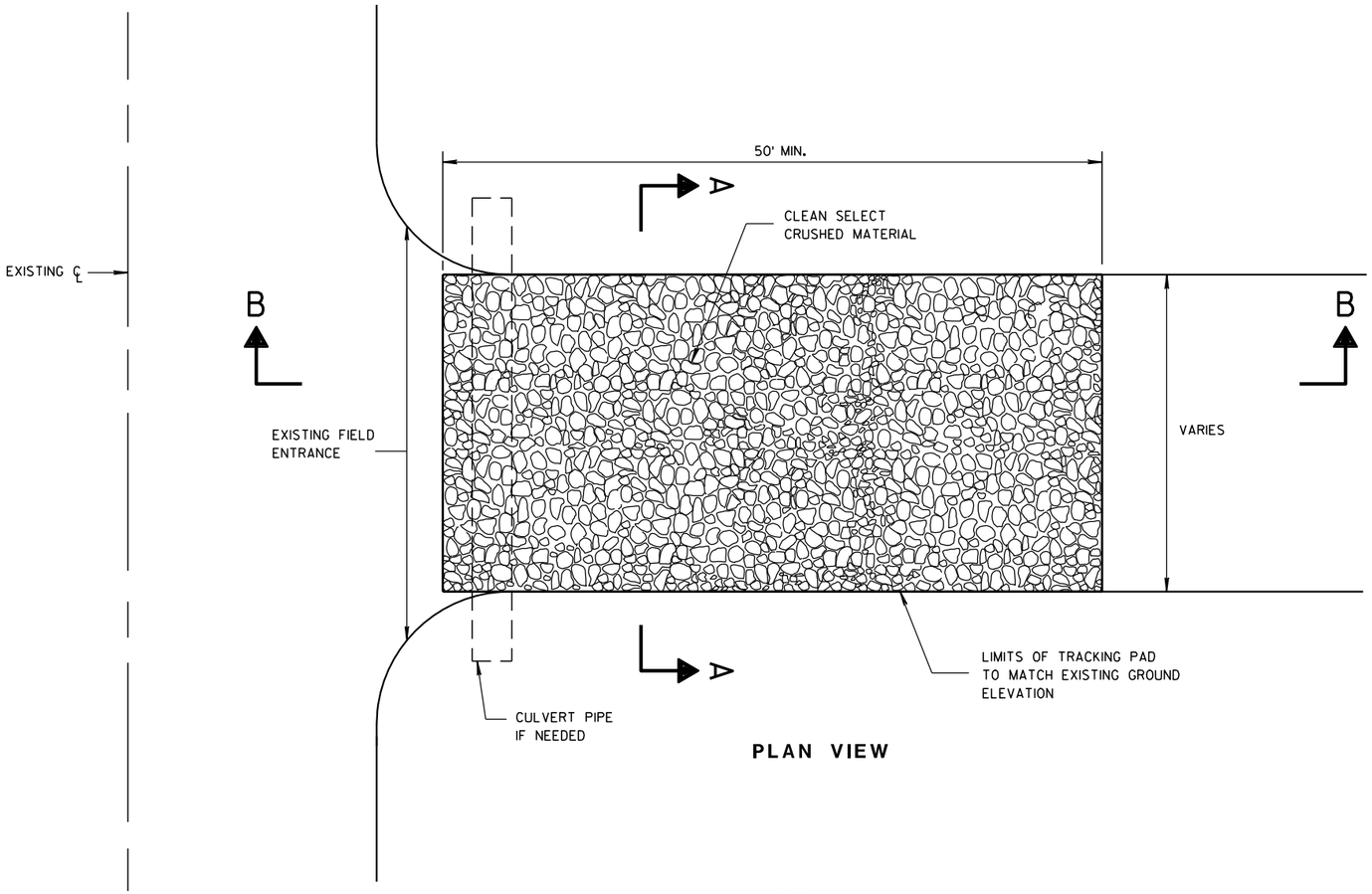
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

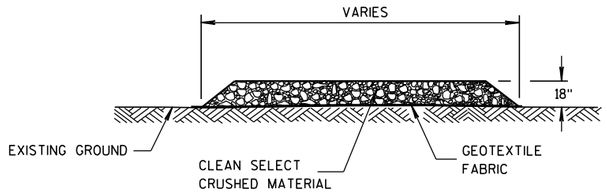
SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

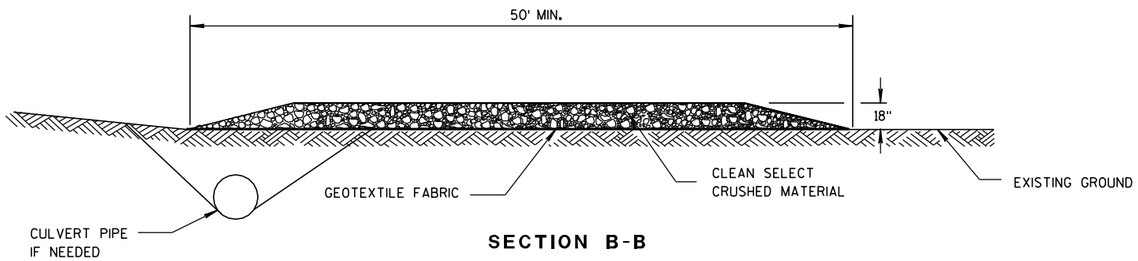
THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



PLAN VIEW



SECTION A-A



SECTION B-B

TRACKING PAD

TRACKING PAD

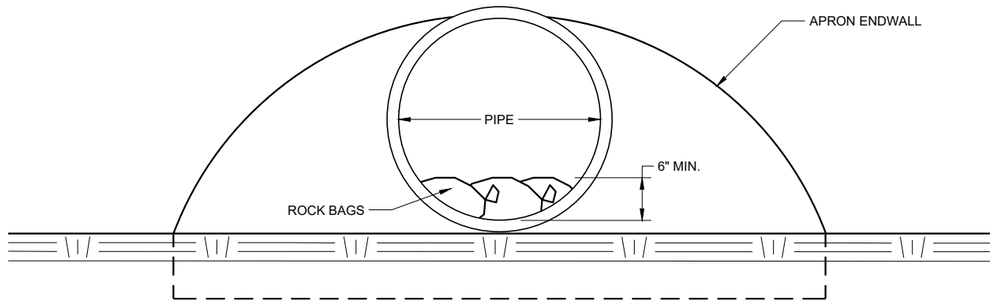
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

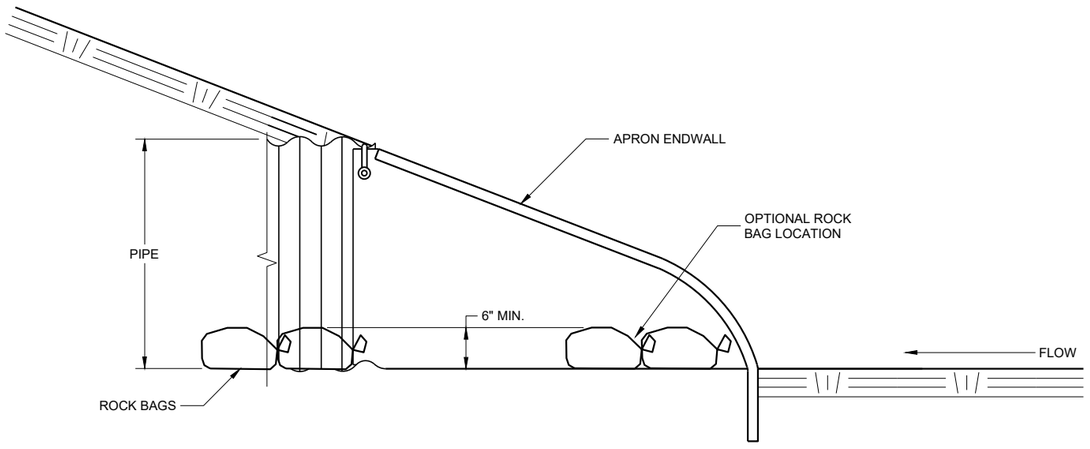
3/24/2011	/S/ Jerry H. Zoda	
DATE	ROADWAY STANDARDS ENGINEER 97	ENT

FHWA

6
S.D.D. 8 E 14-1



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

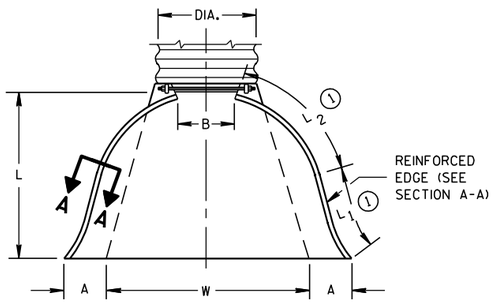
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

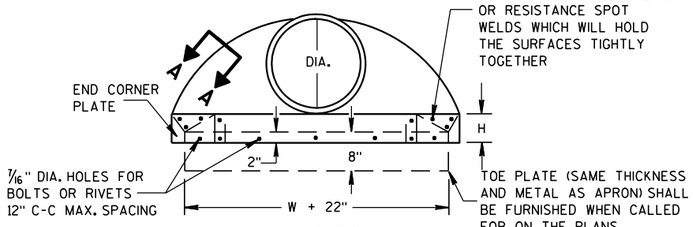
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

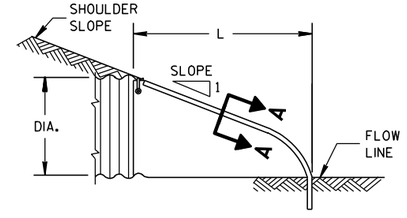
*MINIMUM
**MAXIMUM



PLAN VIEW

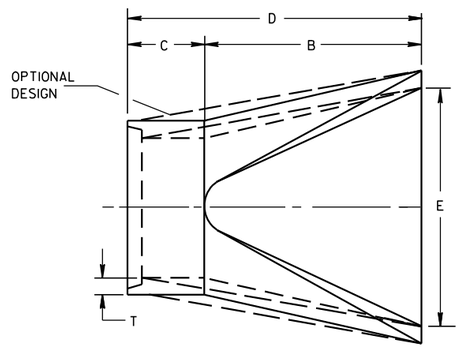


END VIEW

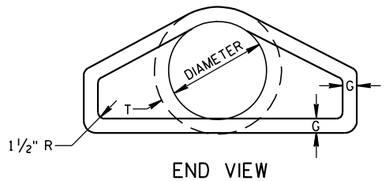


SIDE ELEVATION

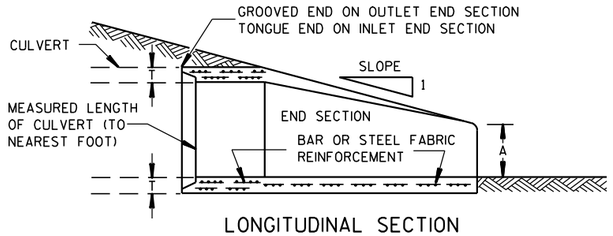
METAL ENDWALLS



PLAN

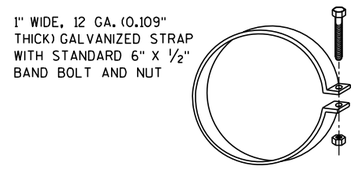


END VIEW



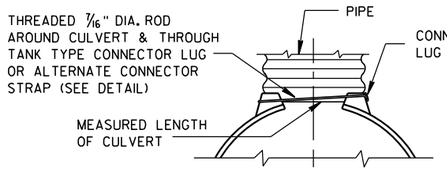
LONGITUDINAL SECTION

CONCRETE ENDWALLS

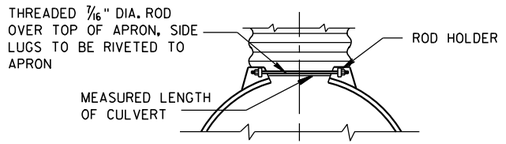


ALTERNATE FOR TYPE 1 CONNECTION

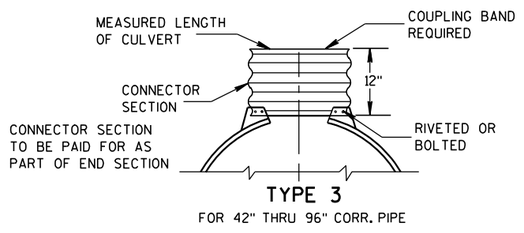
END SECTION CONNECTOR STRAP



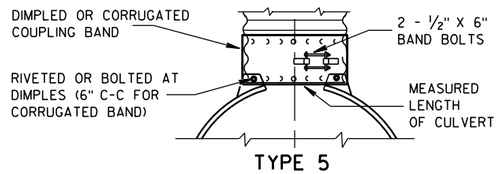
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

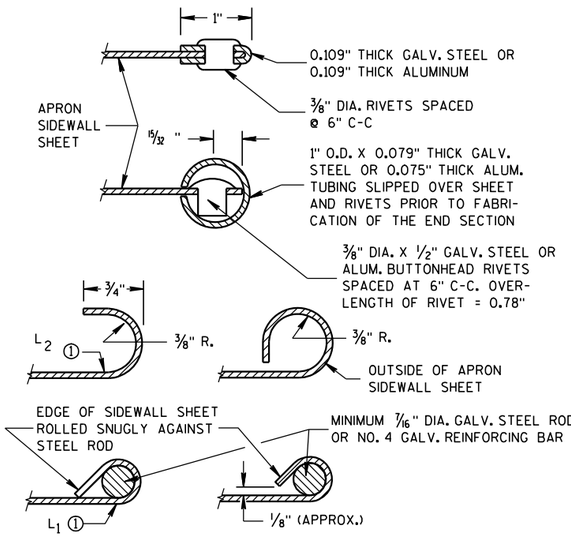
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

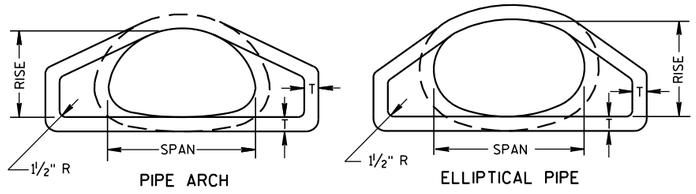
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

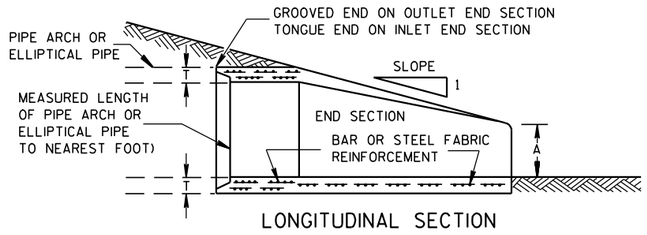
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

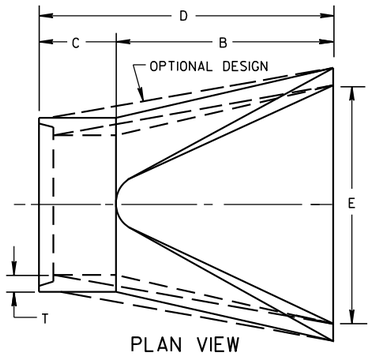
6
S.D.D. 8 F 1-11



END VIEW

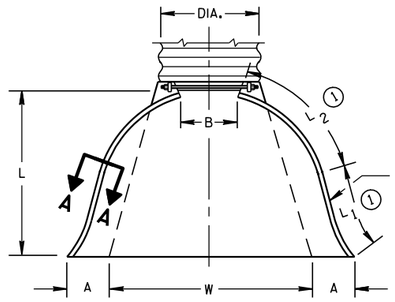


LONGITUDINAL SECTION

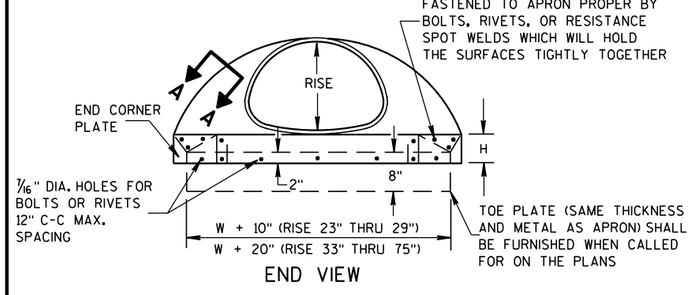


PLAN VIEW

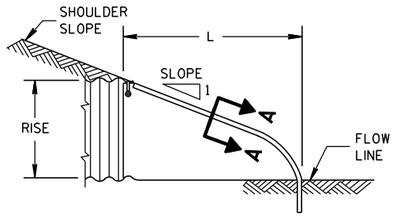
CONCRETE ENDWALLS



PLAN VIEW

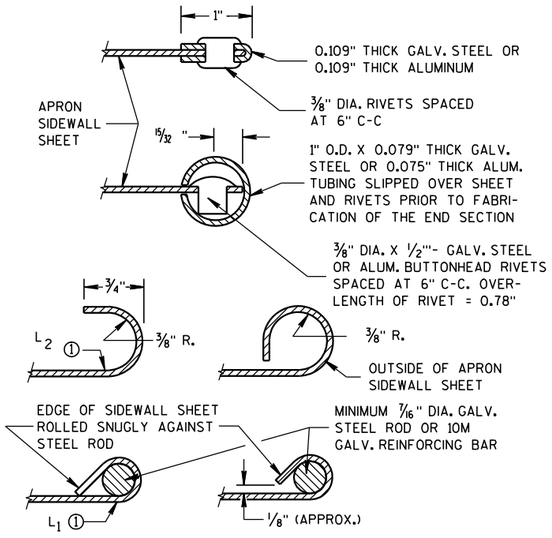


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

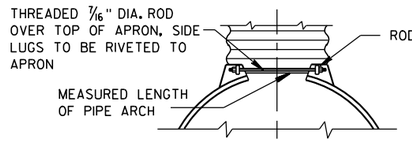
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

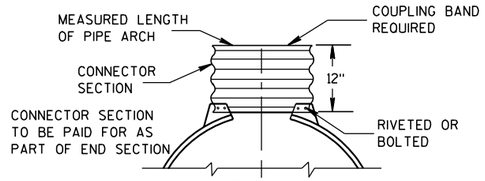
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



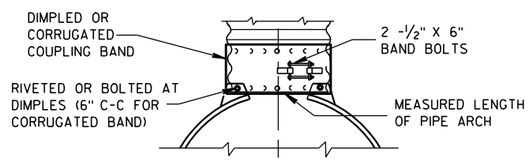
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

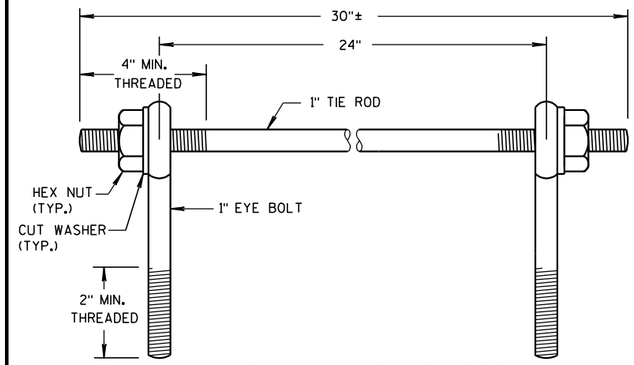
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

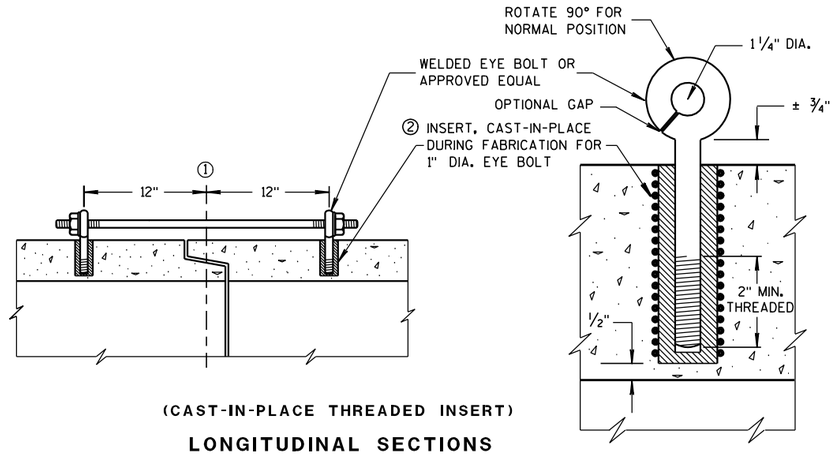
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

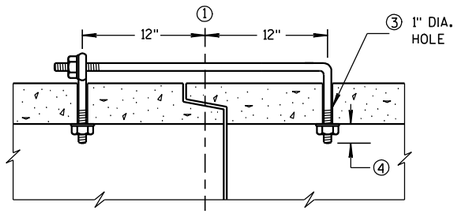
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

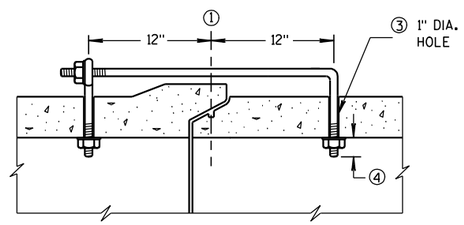
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

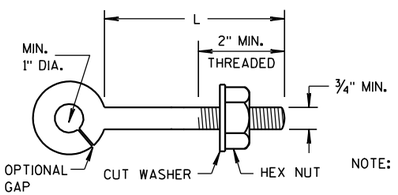


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

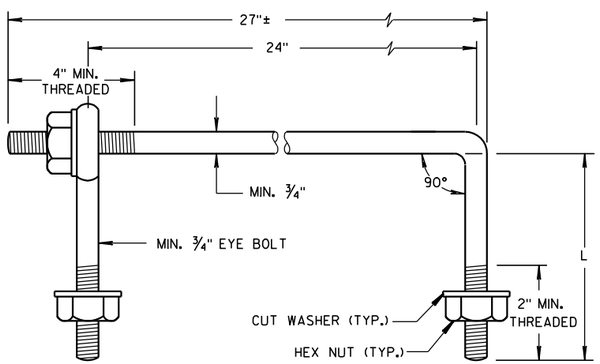
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

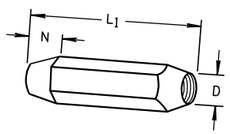
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

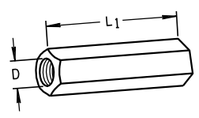
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



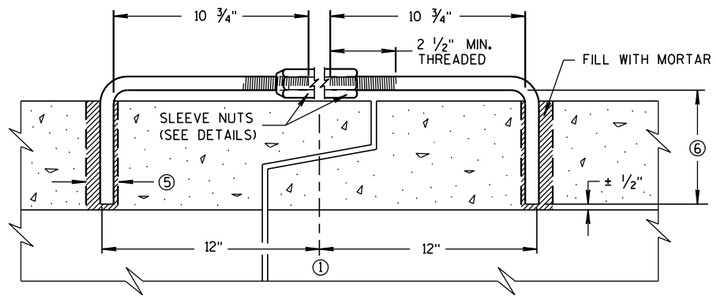
TAPERED



PLAIN

RIGHT AND LEFT THREADS

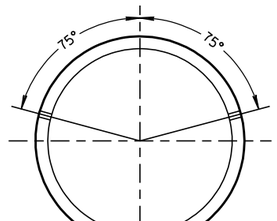
SLEEVE NUTS



LONGITUDINAL SECTION

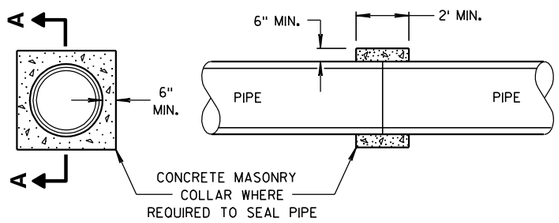
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

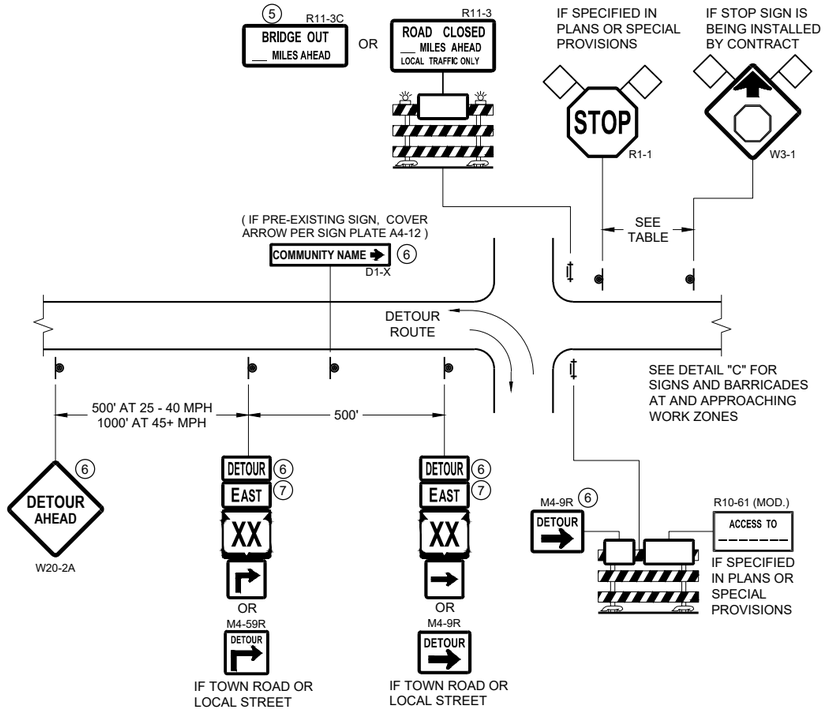
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
101
FHWA

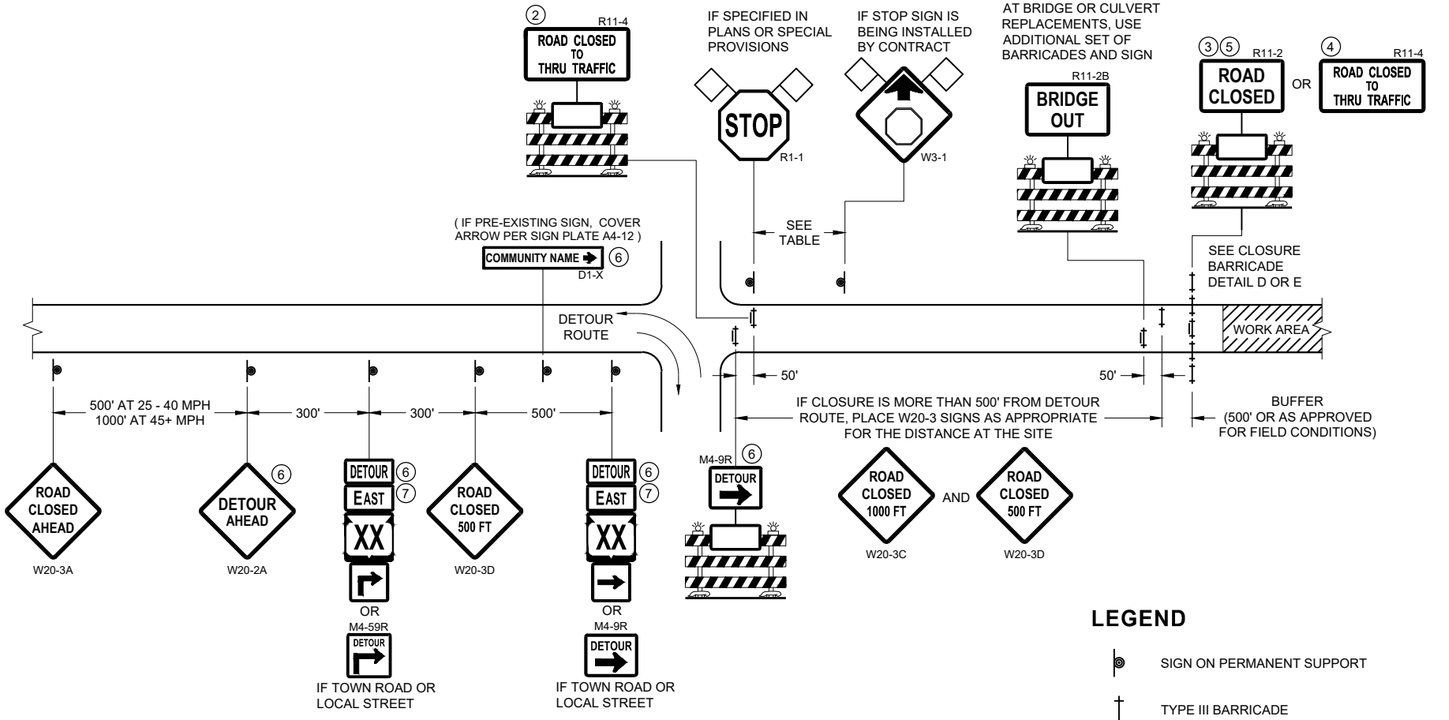
6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7



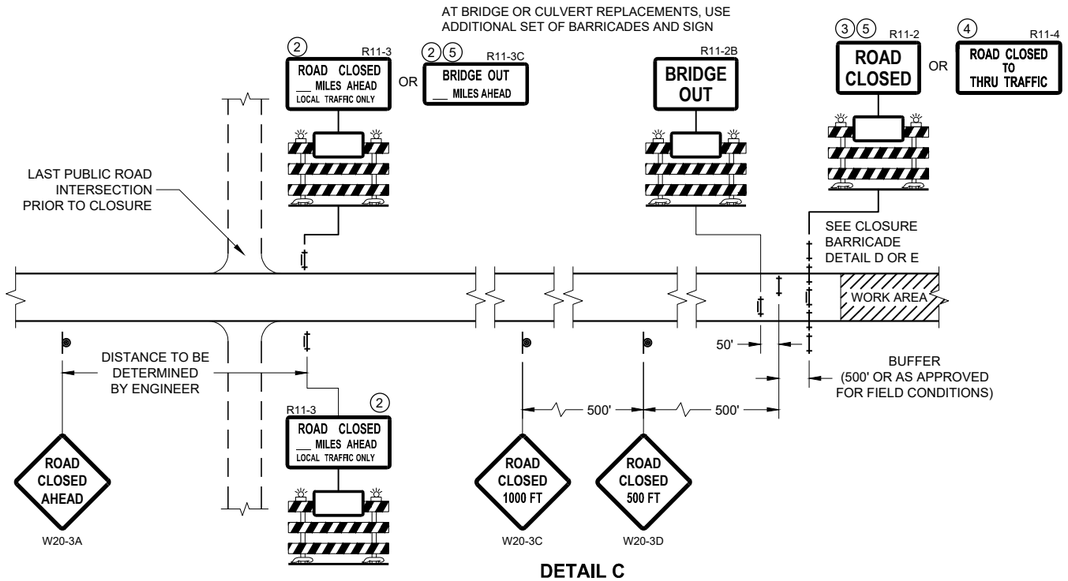


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

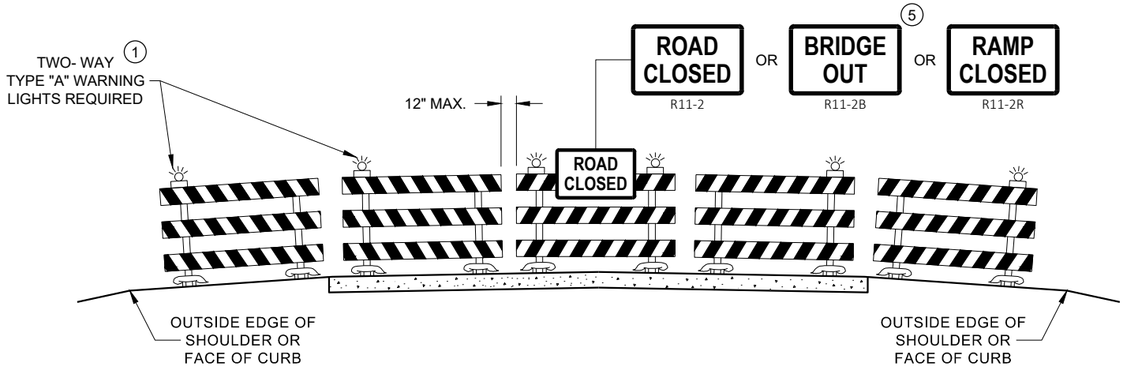
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

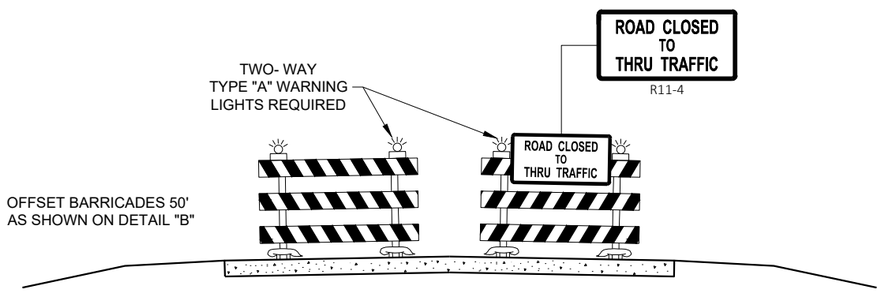
6

SDD 15C02 - 07a

SDD 15C02 - 07a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6

SDD 15C02 - 07b

6

SDD 15C02 - 07b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *
D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / DETOUR WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

MATCH POINT

* M4-59L DETOUR ** OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-9L DETOUR ** OR DETOUR EAST XX IF TOWN ROAD OR LOCAL STREET

500'

DETOUR WEST XX

DETOUR WEST XX M4-9R DETOUR ** OR IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * M4-59R DETOUR ** OR IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

500'

DETOUR EAST XX / DETOUR EAST XX * / DETOUR EAST XX

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

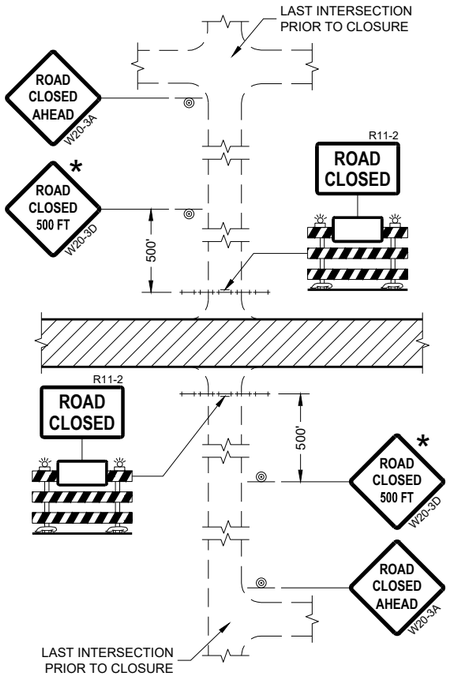
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

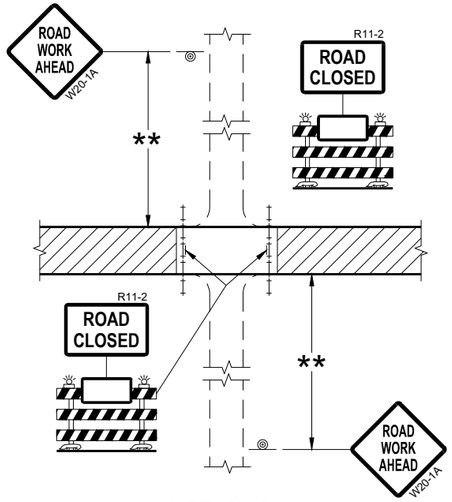
SDD 15C02 - 07c

SDD 15C02 - 07c

6



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

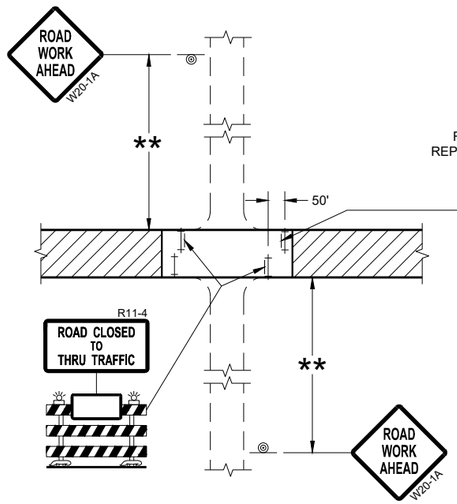
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

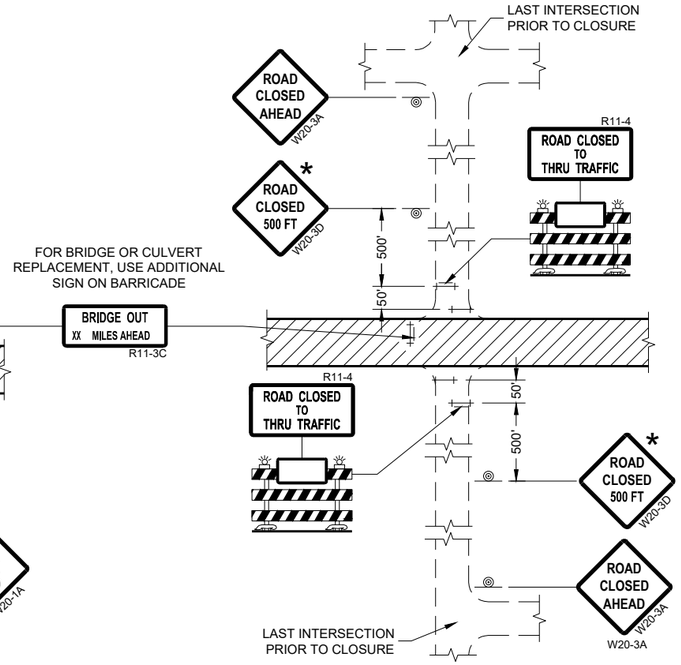
THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.





DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

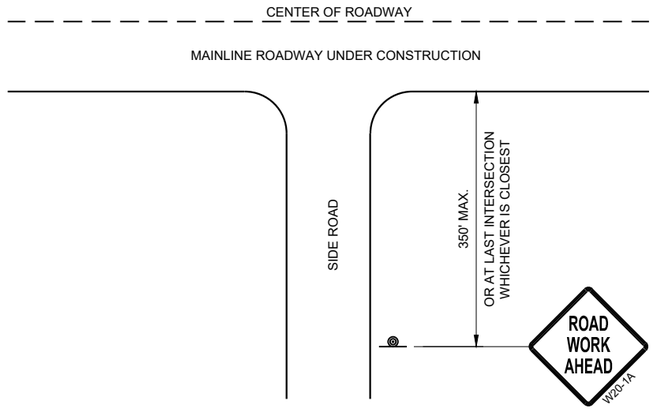
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



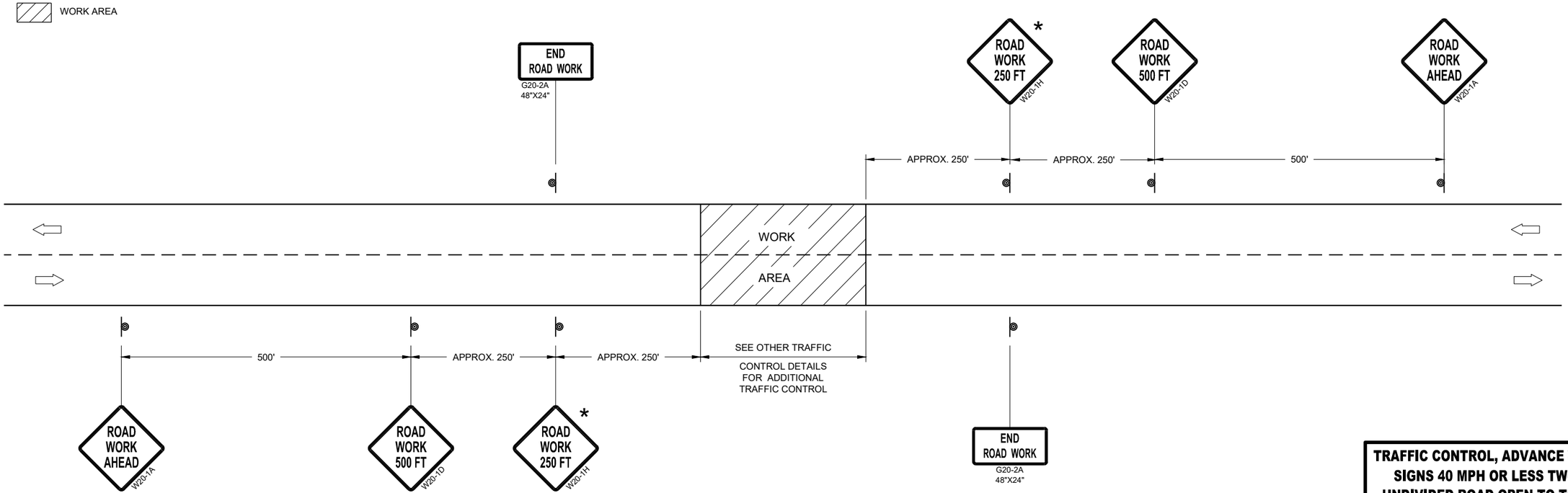
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

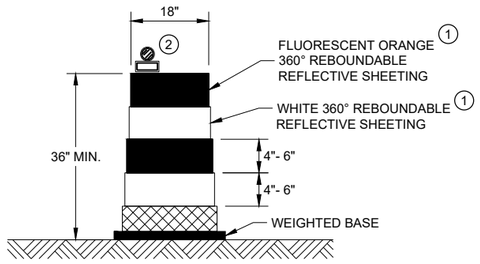
FHWA

6

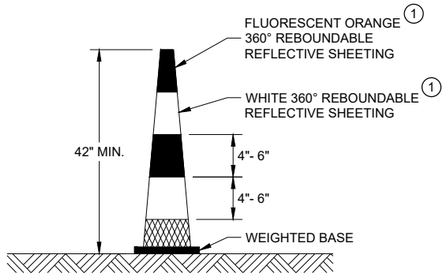
SDD 15C05 - 05

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

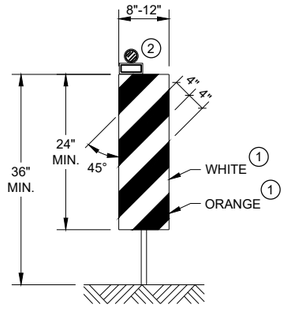


DRUM



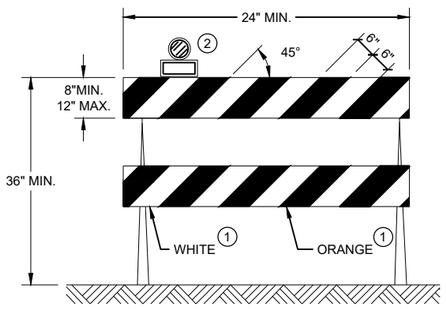
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



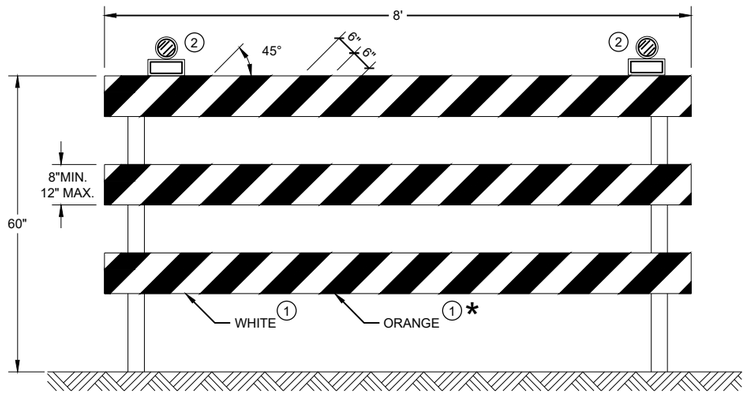
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

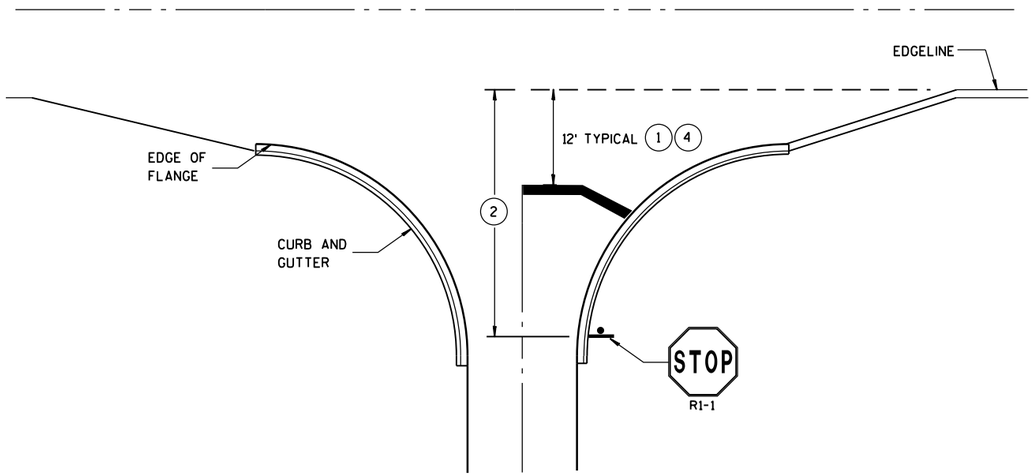
FHWA

6

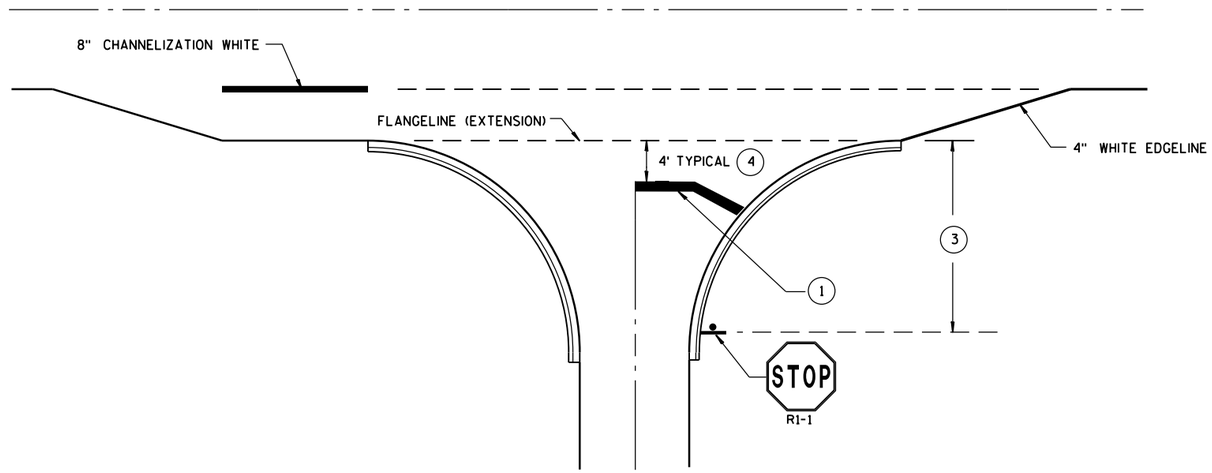
SDD 15C11 - 07b

6

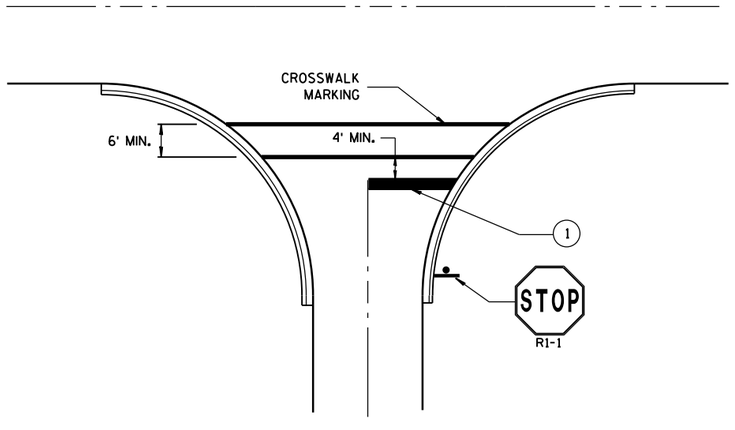
SDD 15C11 - 07b



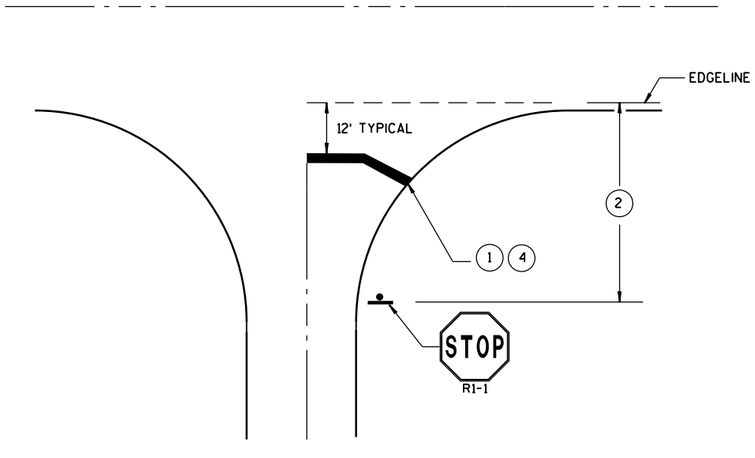
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

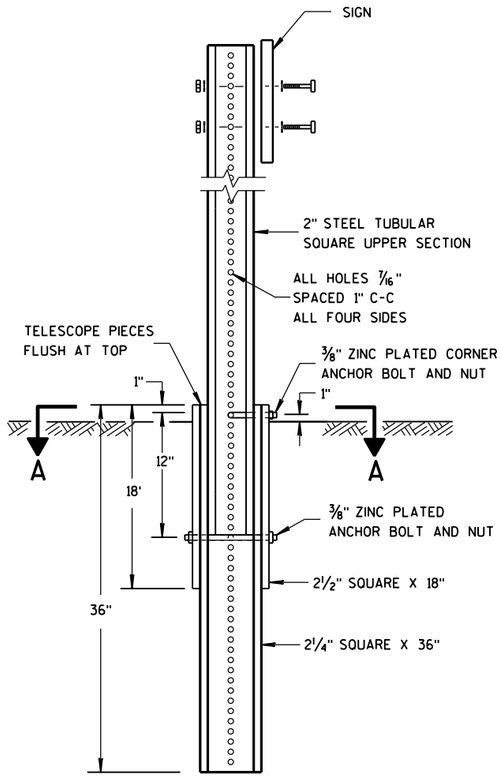
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

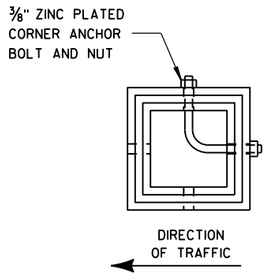
FHWA

6

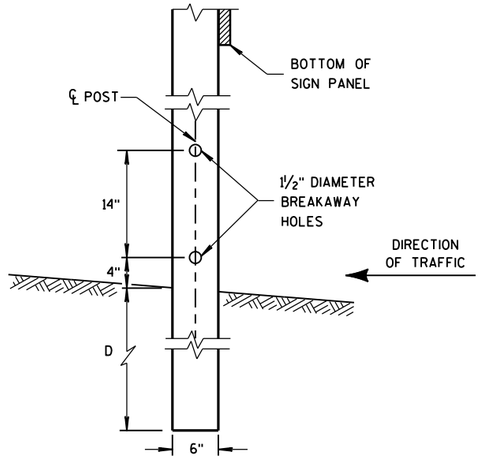
S.D.D. 15 C 33-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



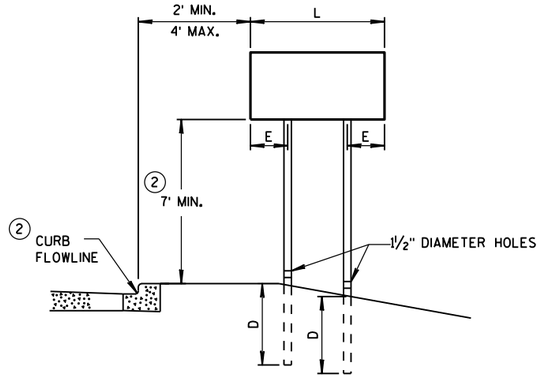
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

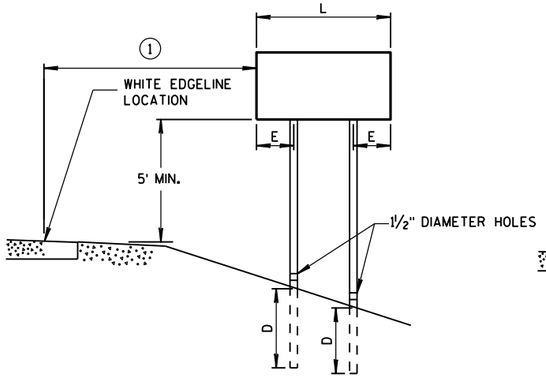
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

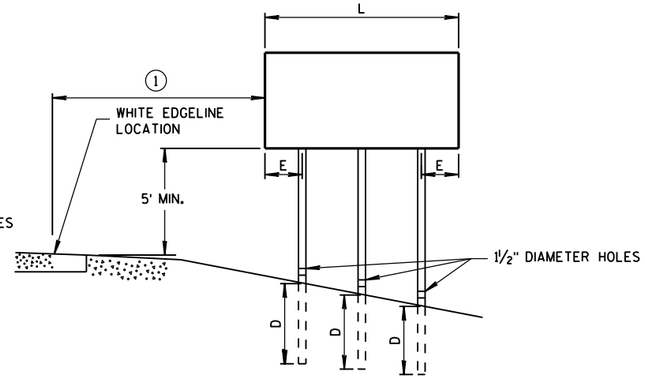
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

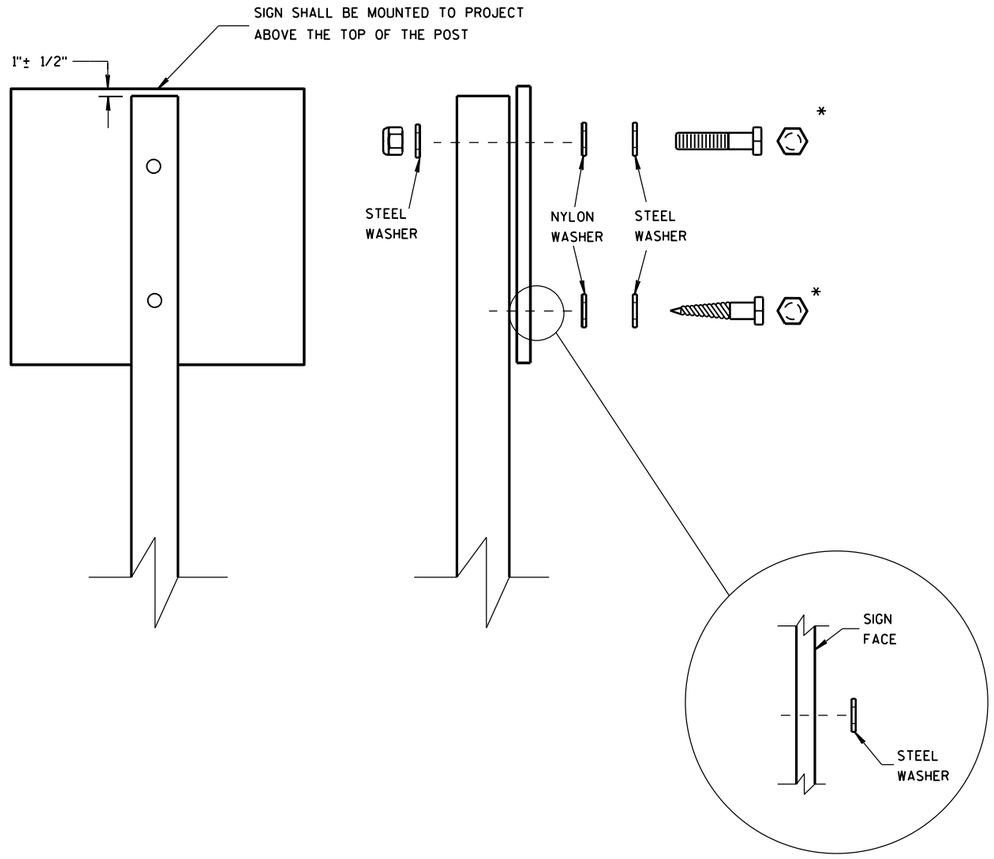
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

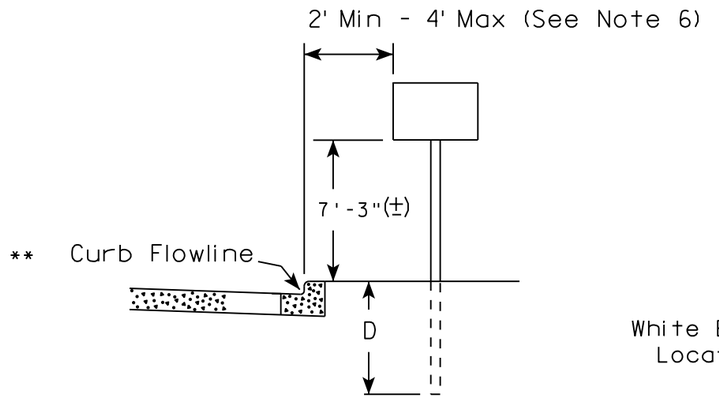
APPROVED

June 2017
DATE

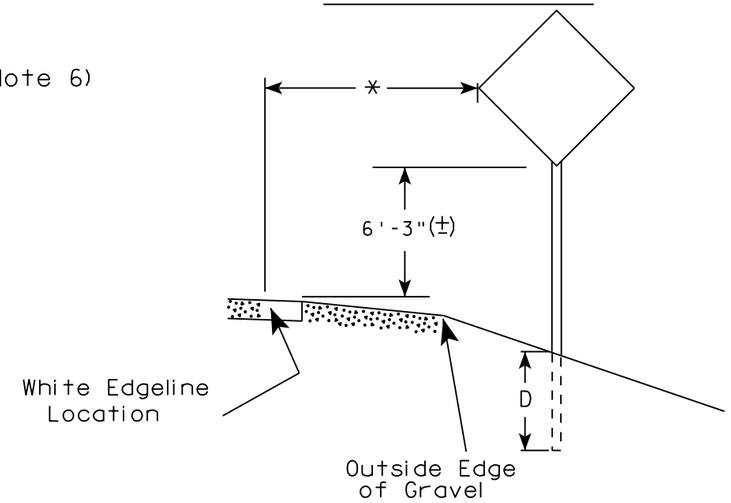
/S/ Andrew Heldtke
WORK ZONE ENG

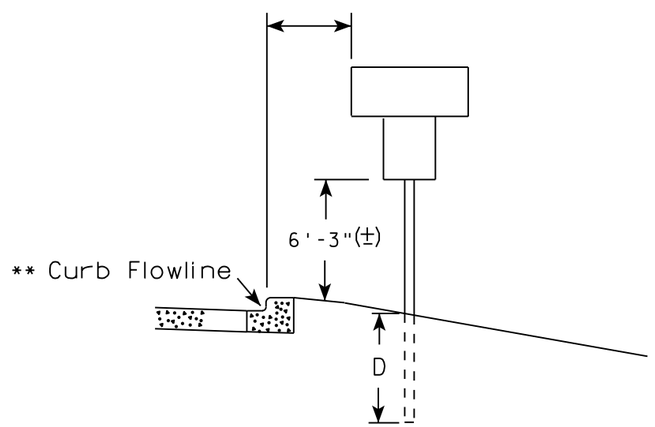
FHWA

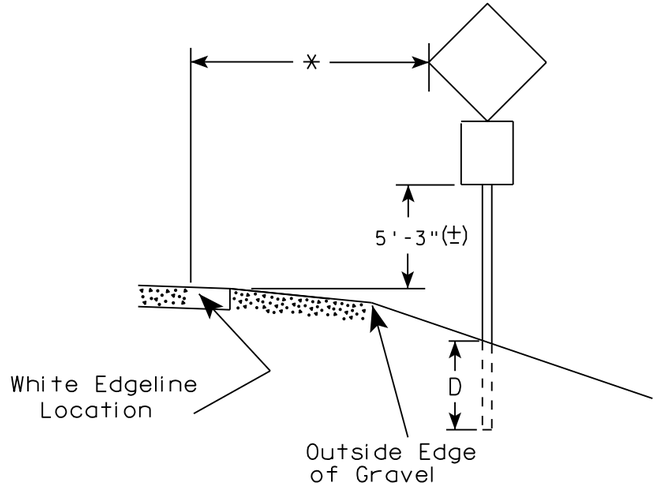
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

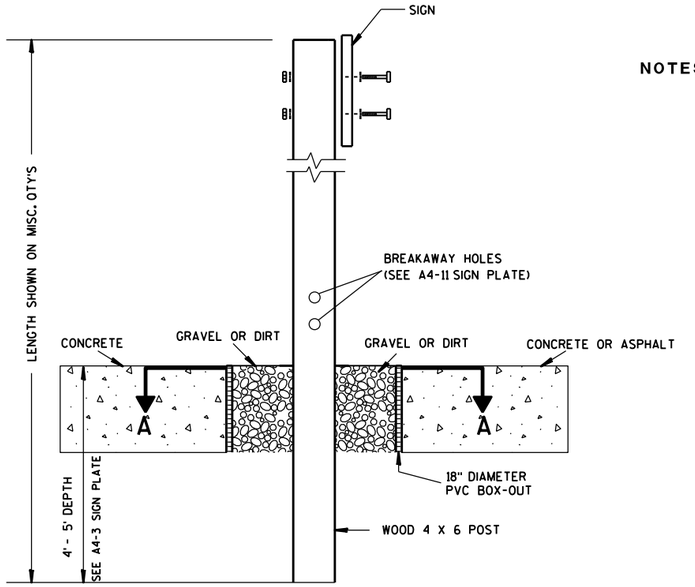
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

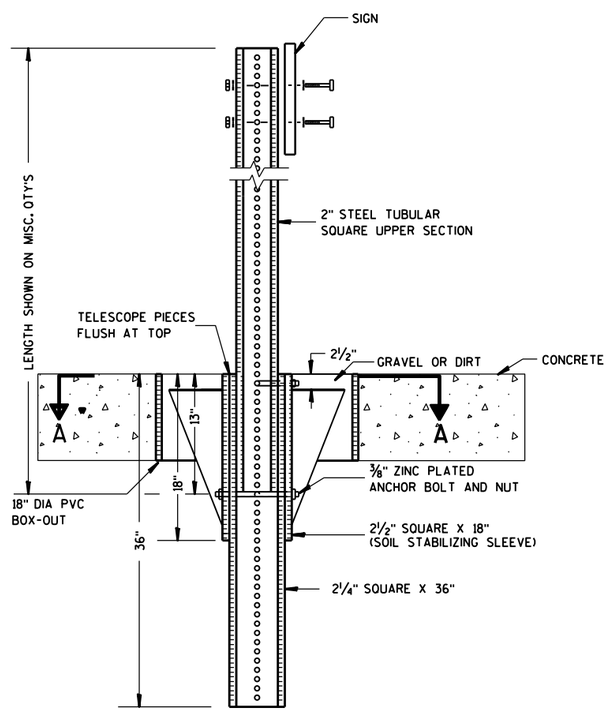
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 111	E



ELEVATION VIEW

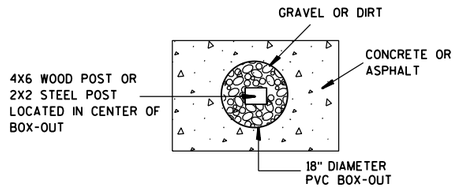
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

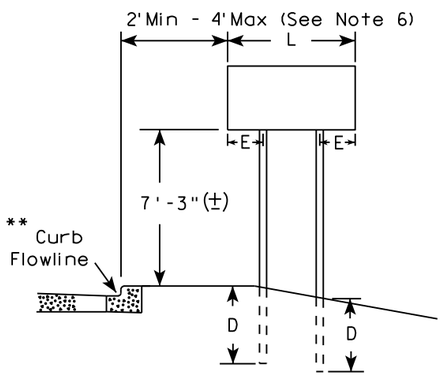
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

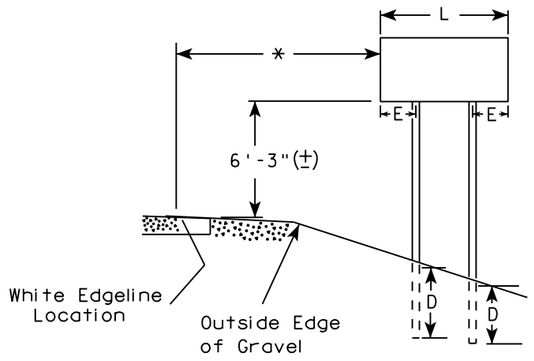
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

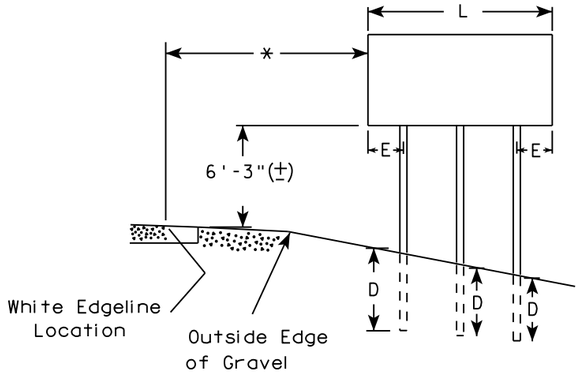
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

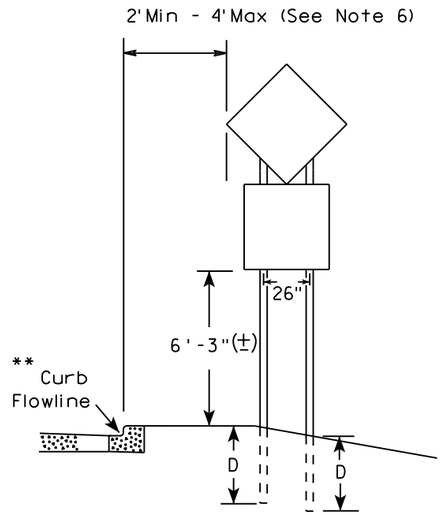
URBAN AREA



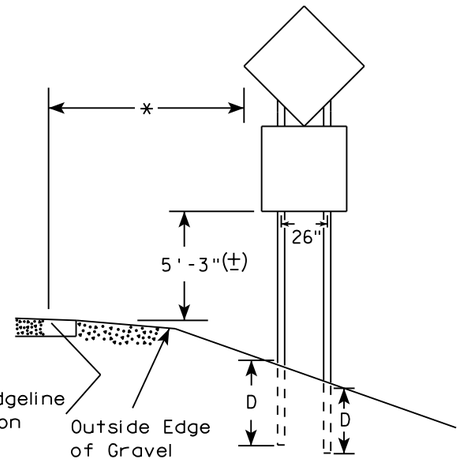
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

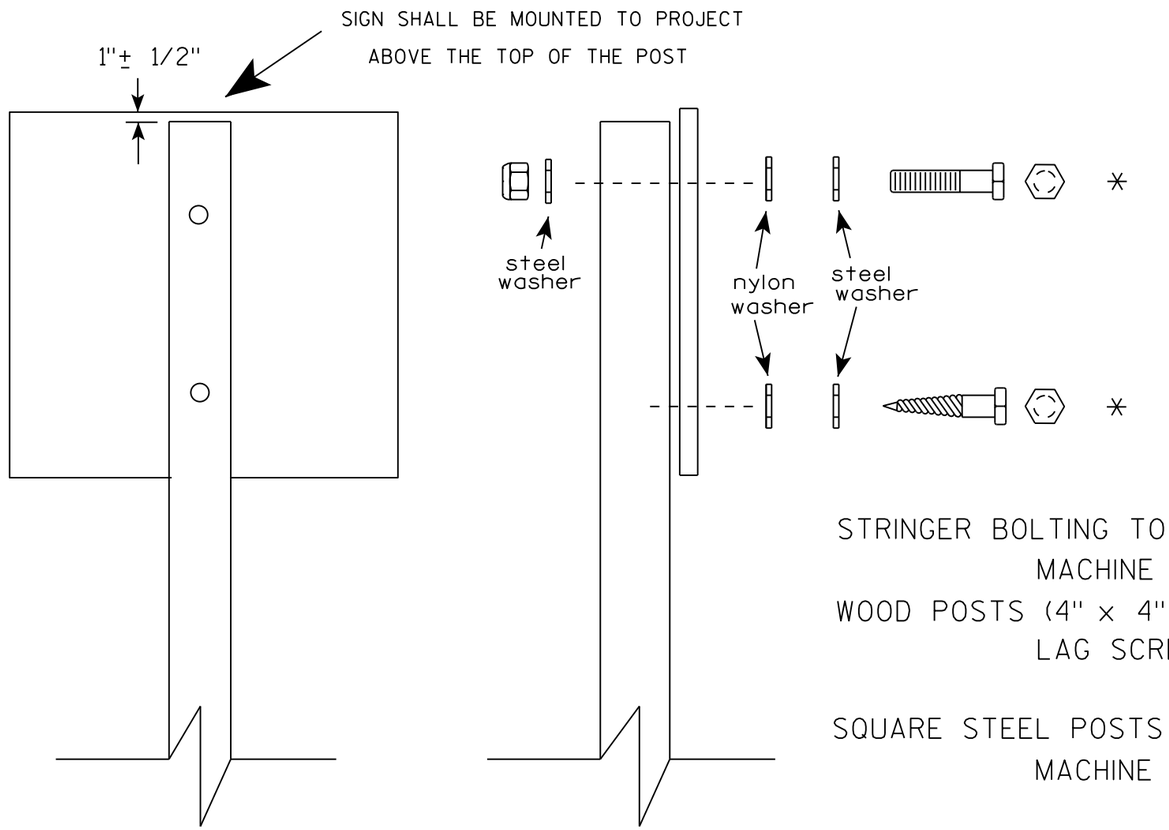
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 113 | E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

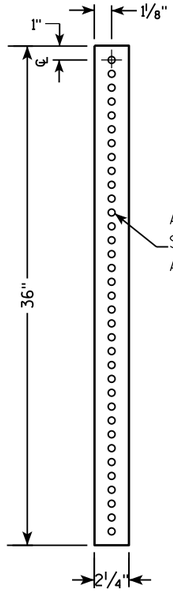
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

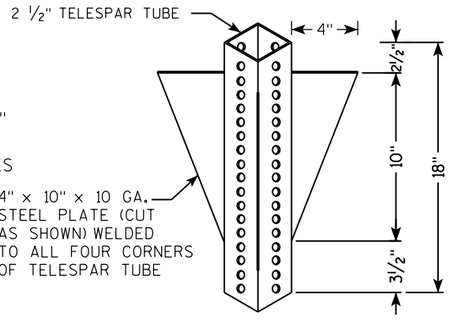
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

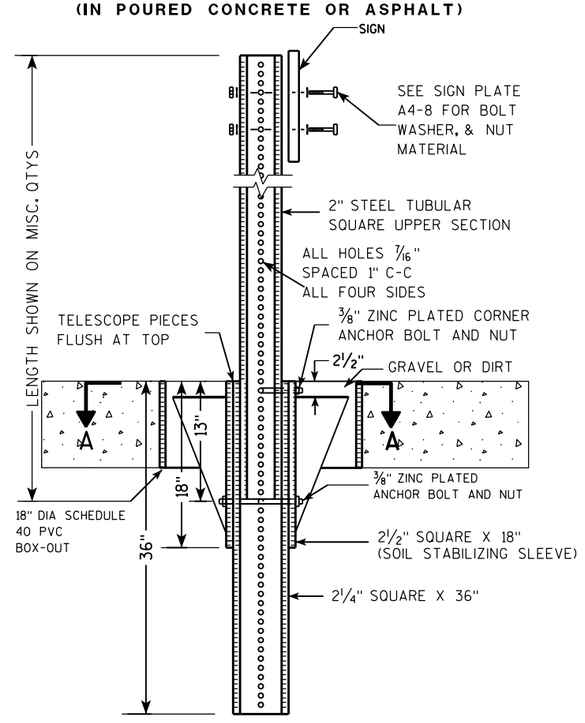
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



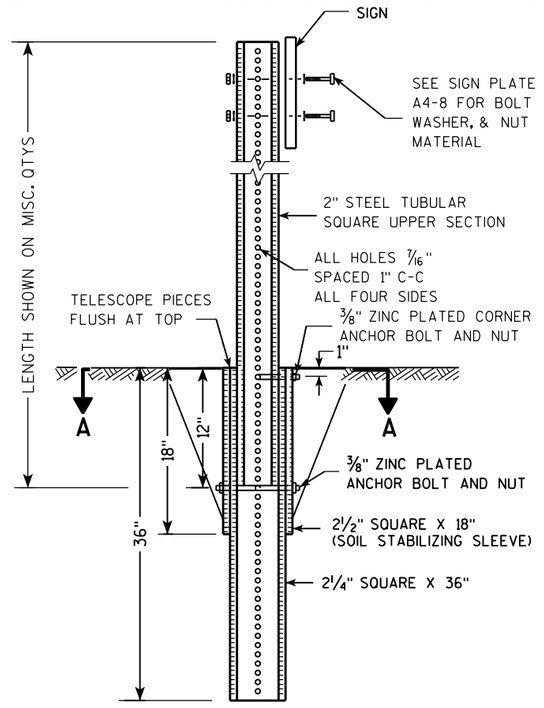
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

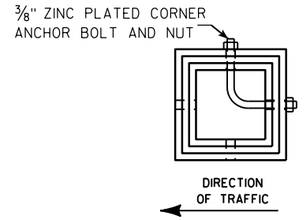


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

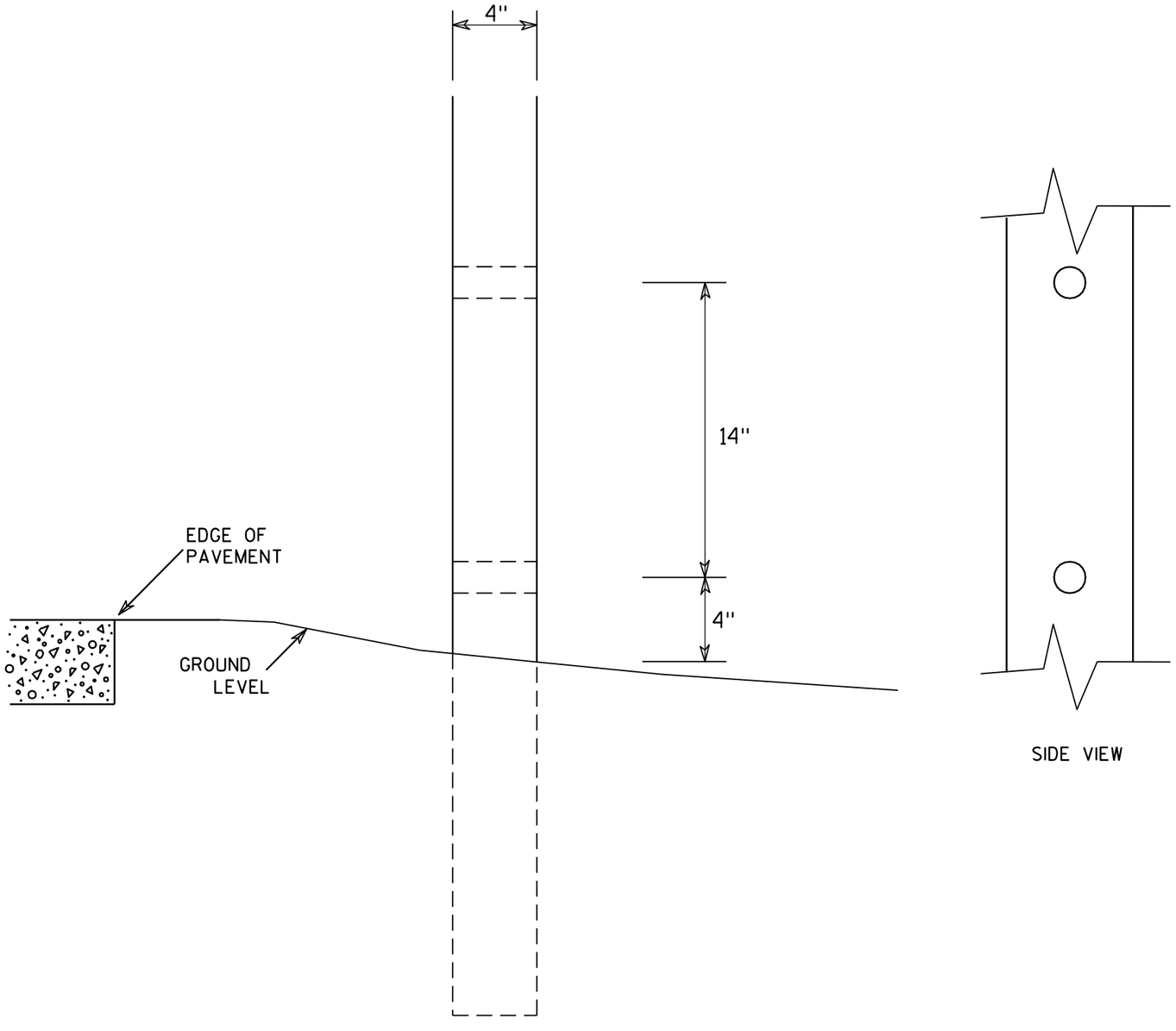
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 115 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

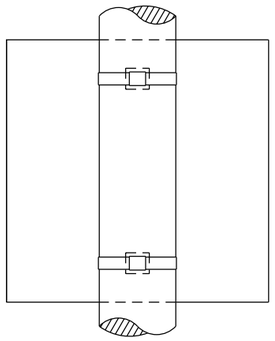
APPROVED Chester J Spang for State Traffic Engineer

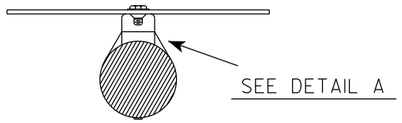
DATE 3/27/97 PLATE NO. A4-11.2

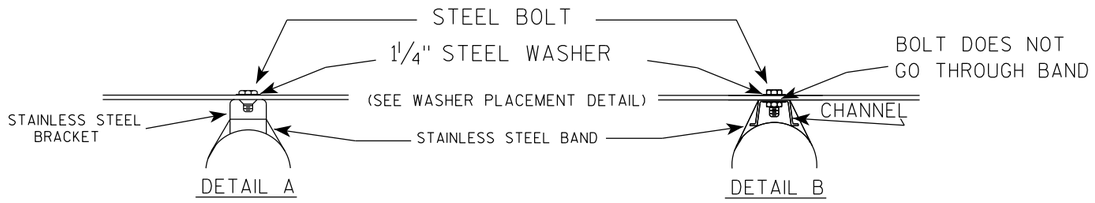
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 116	E

BANDING

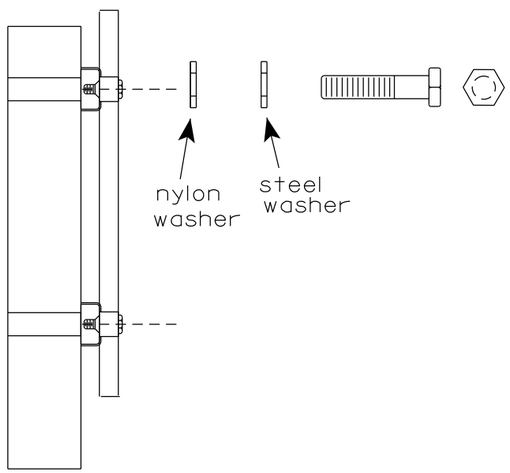
SINGLE SIGN







WASHER PLACEMENT

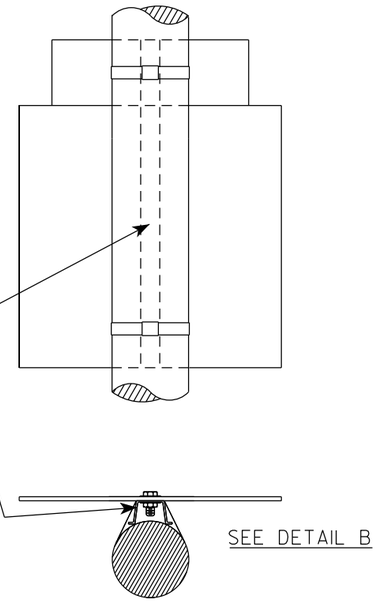


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

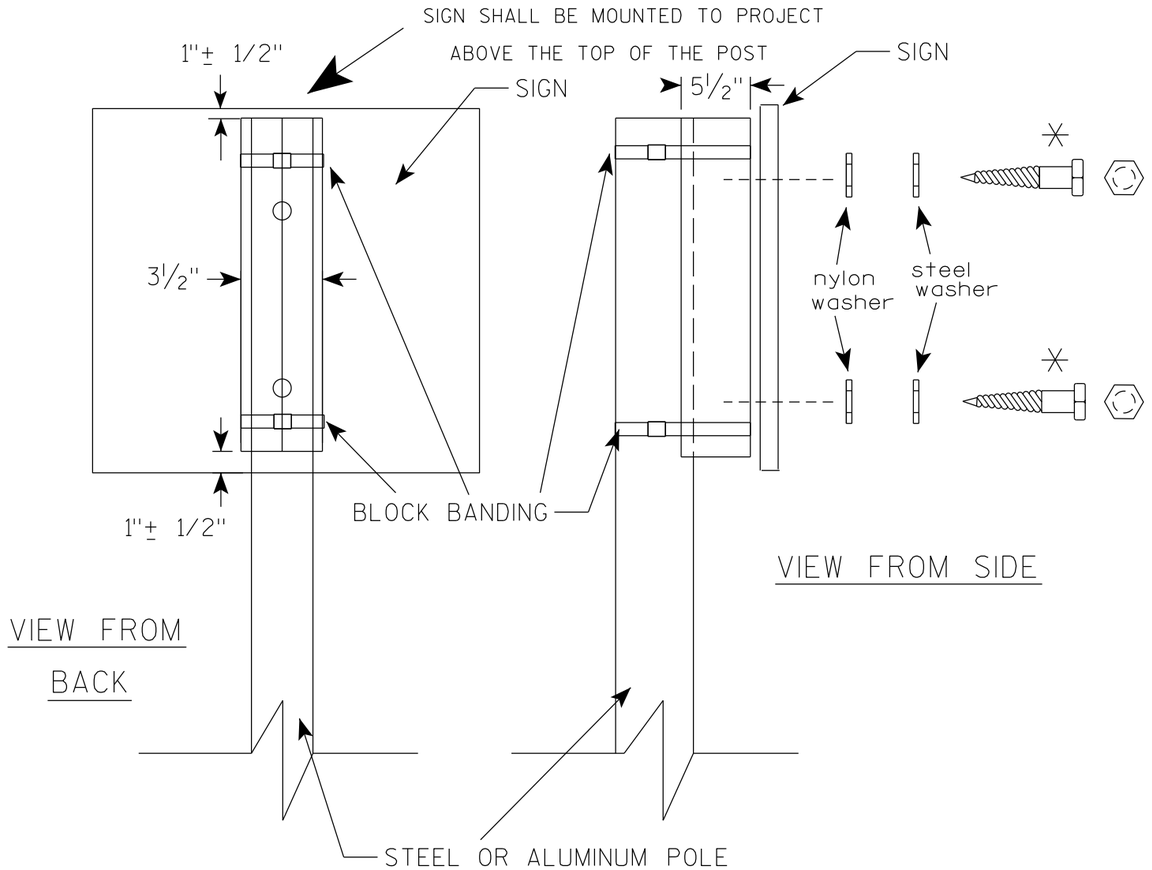
DATE 6/10/19 PLATE NO. A5-9.4

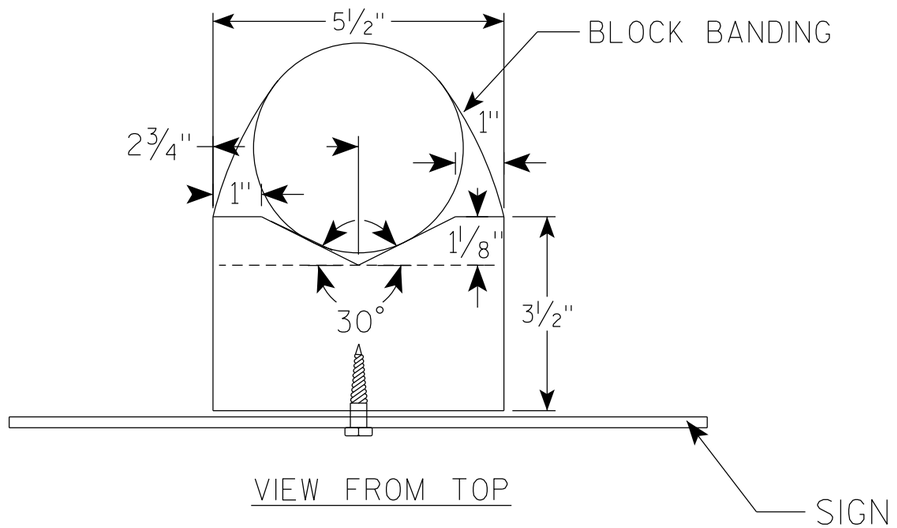
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 117	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

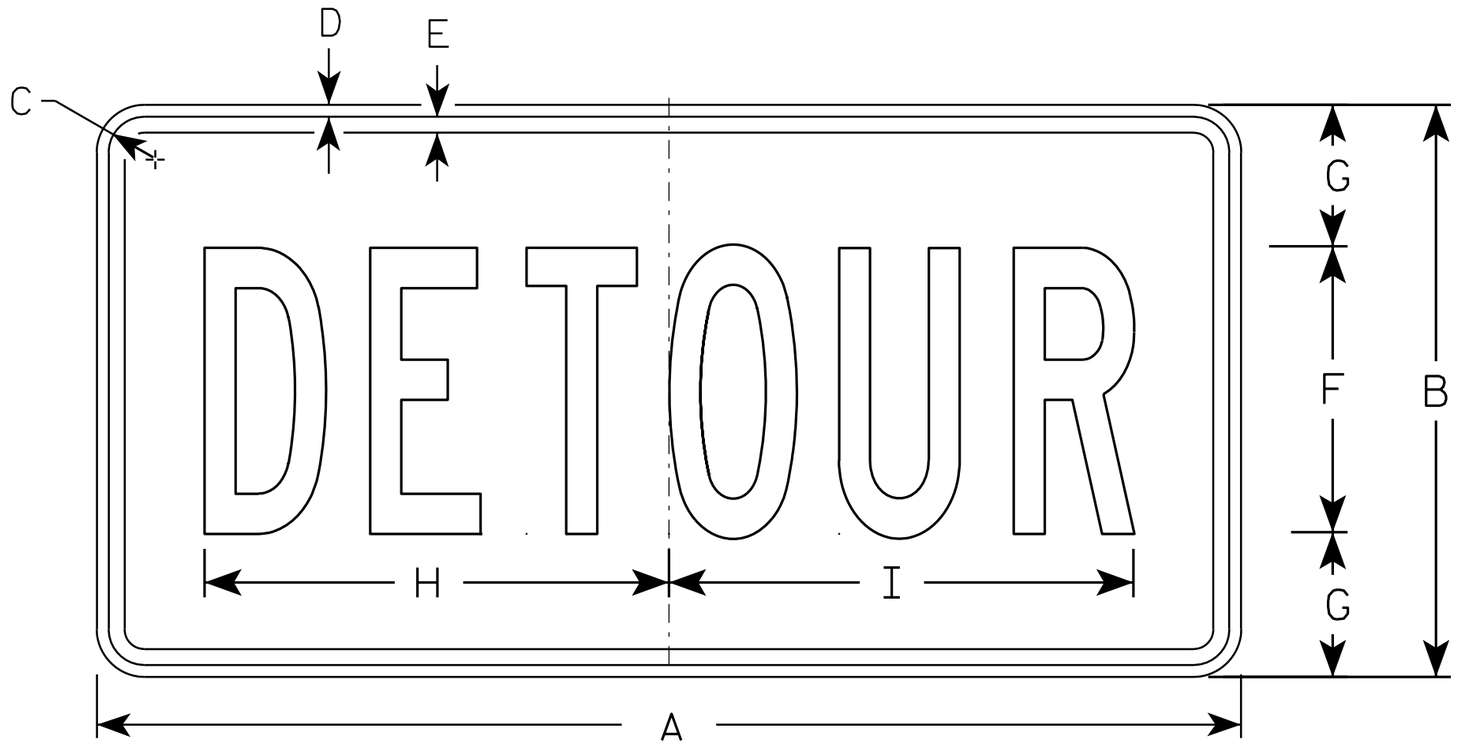
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 118 | E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

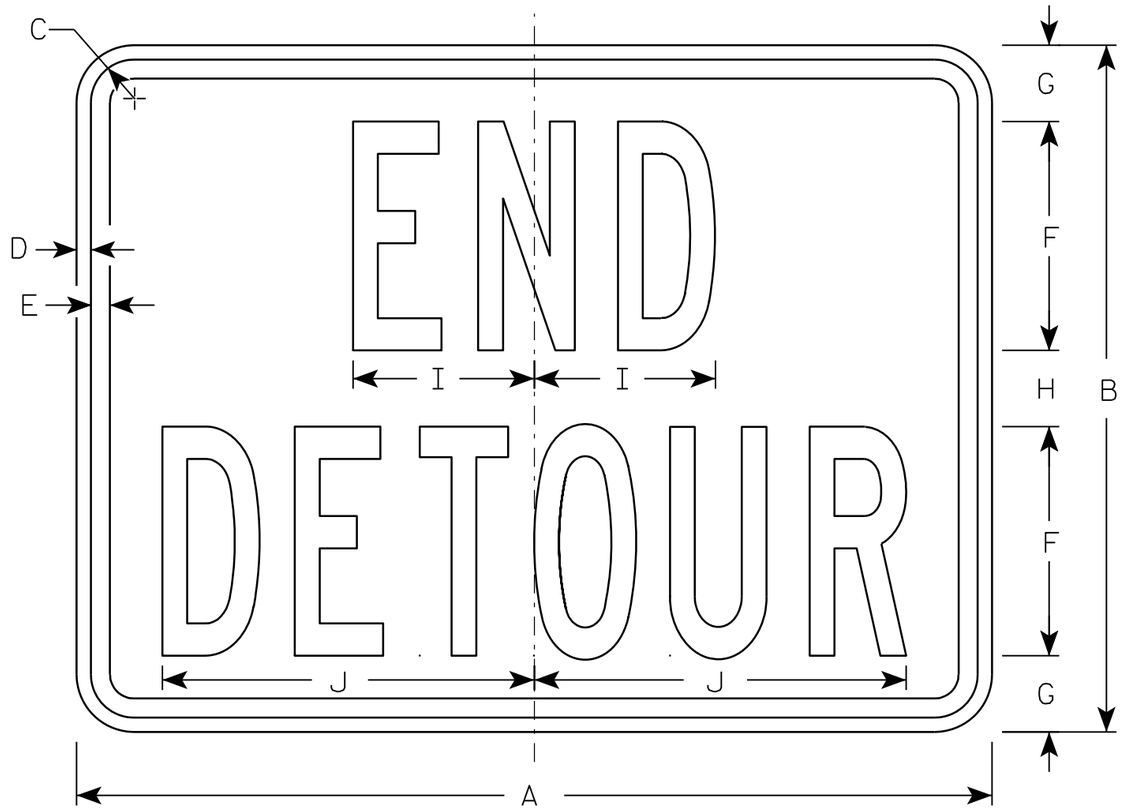
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 119	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

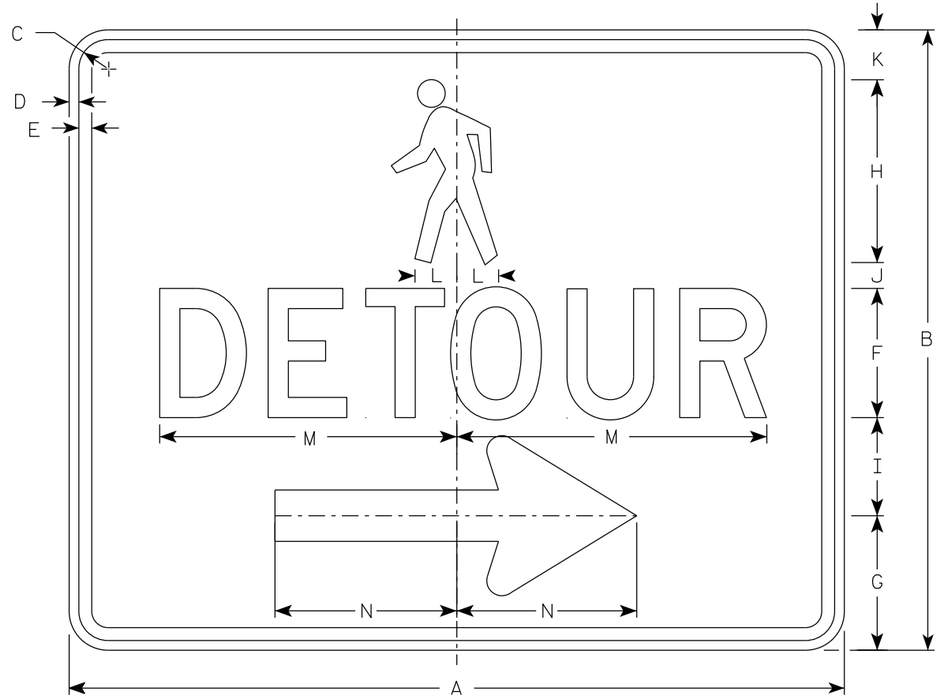
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

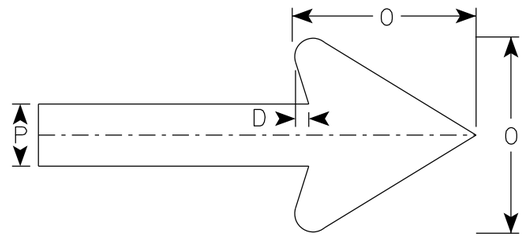
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 120	E



M4-9BR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

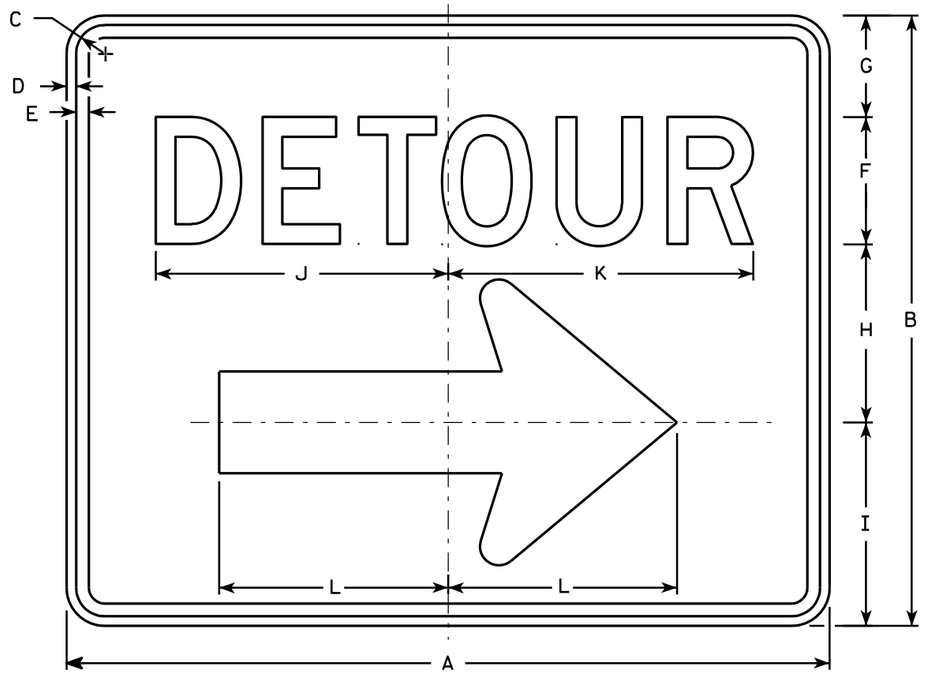
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/1/19 PLATE NO. M4-9B.2

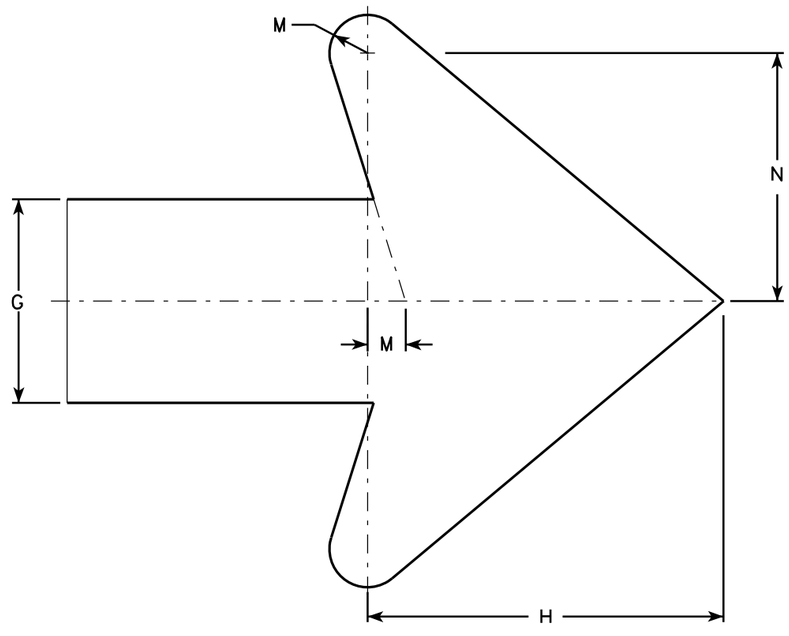
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 121 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

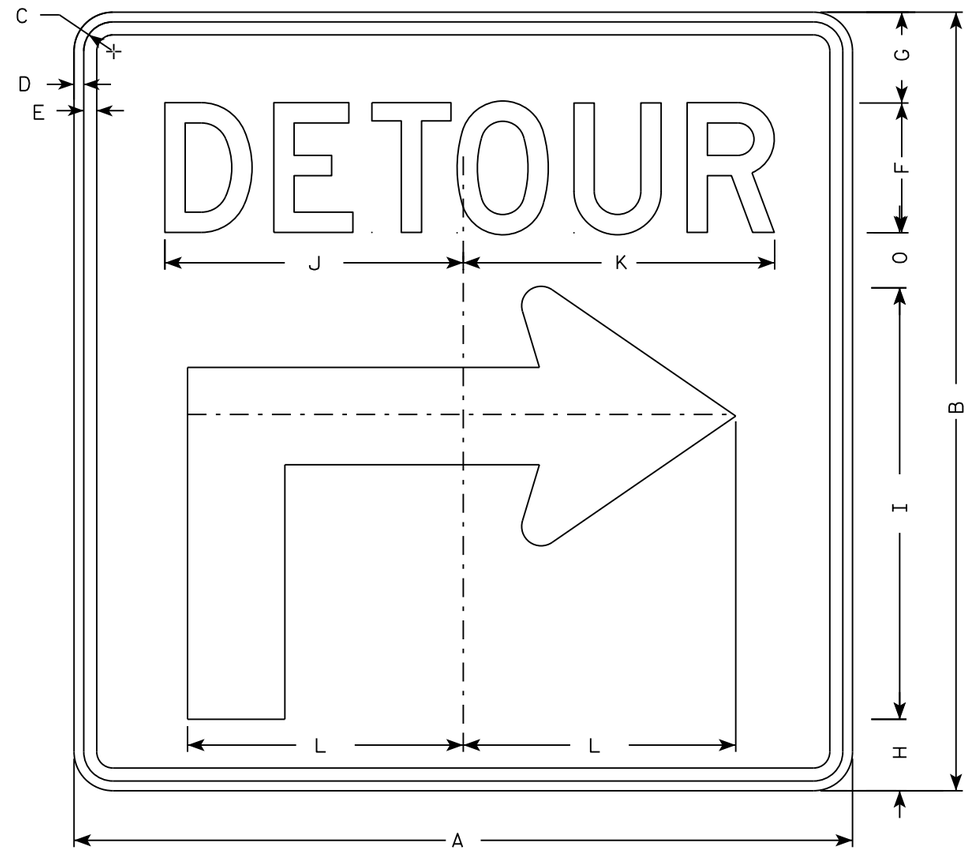
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

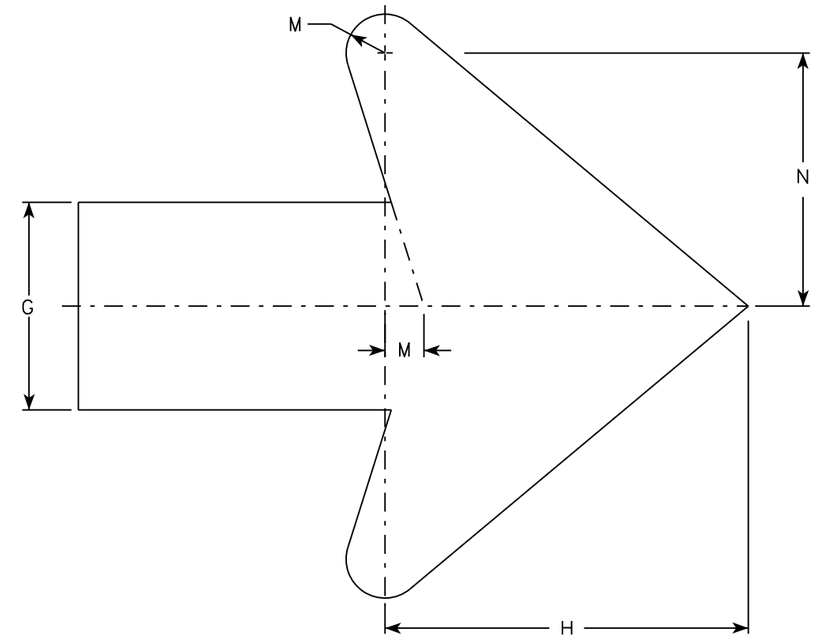
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 122	E



M4-59R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown when base material is metal.
5. M4-59L is the same as M4-59R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	30	1 1/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 7/8	2 1/8												6.25
3	30	30	1 1/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 7/8	2 1/8												6.25
4	48	48	1 3/8	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/8	6 7/8	3 3/8												16.0
5	48	48	1 3/8	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/8	6 7/8	3 3/8												16.0

STANDARD SIGN
M4-59 L&R

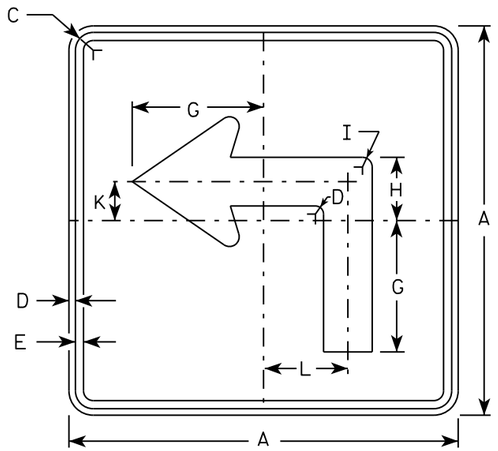
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

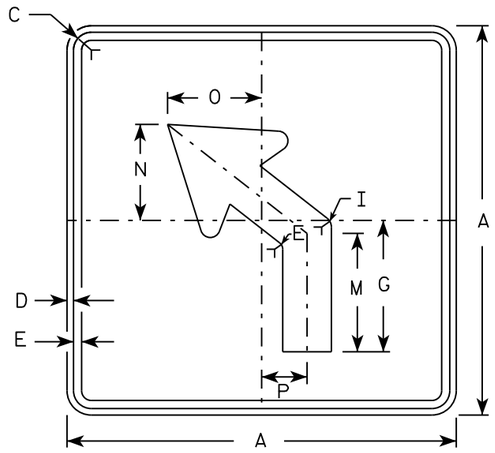
DATE 11/10/15 PLATE M4-59.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

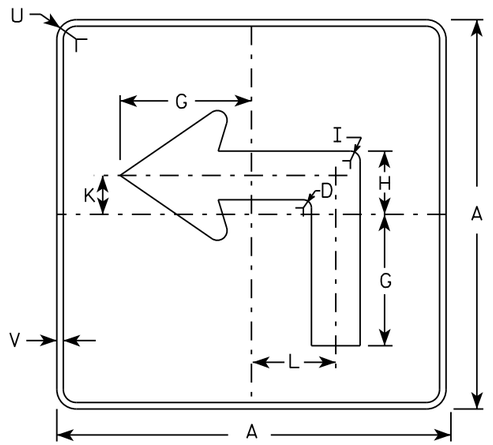
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M459.DGN PLOT DATE : 01-DEC-2015 18:05 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



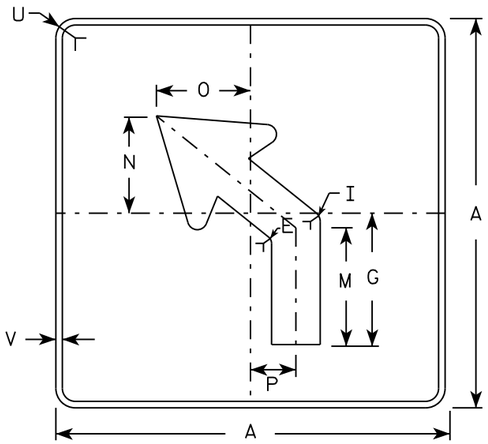
M5-1L
MM5-1L
MO5-1L
MP5-1L



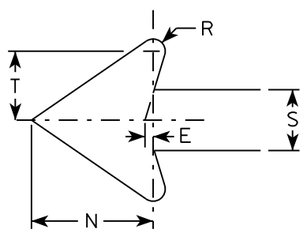
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

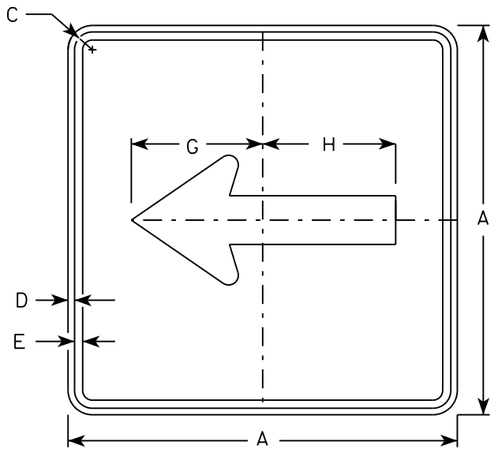
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

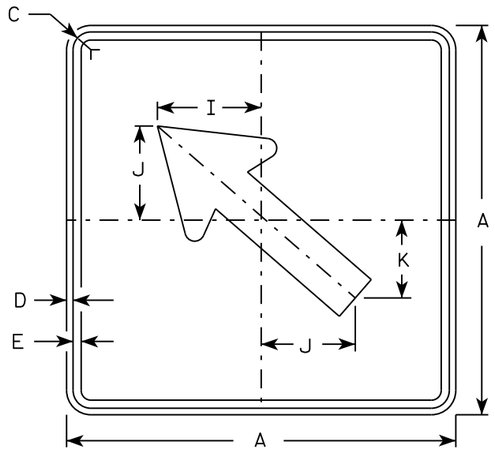
DATE 10/15/15 PLATE No. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



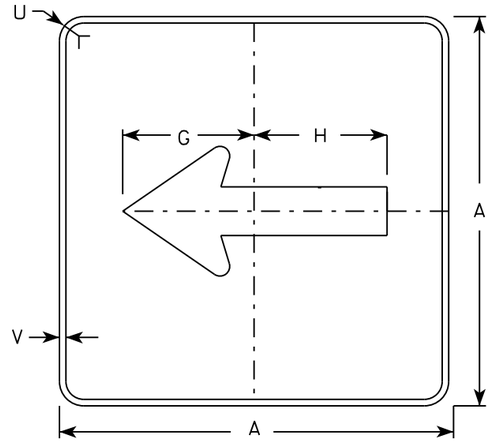
M6-1
MM6-1
MO6-1
MP6-1



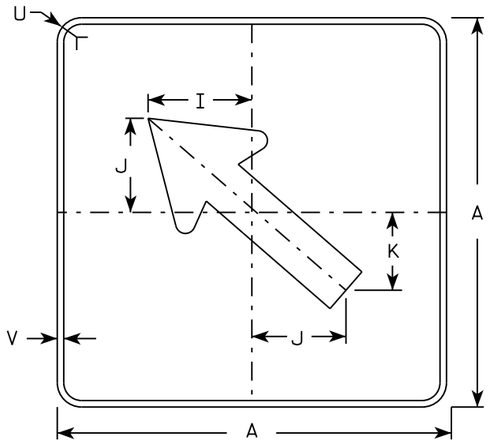
M6-2
MM6-2
MO6-2
MP6-2

NOTES

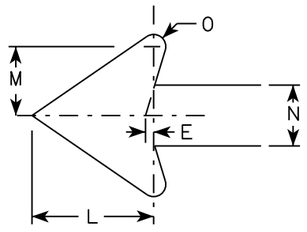
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

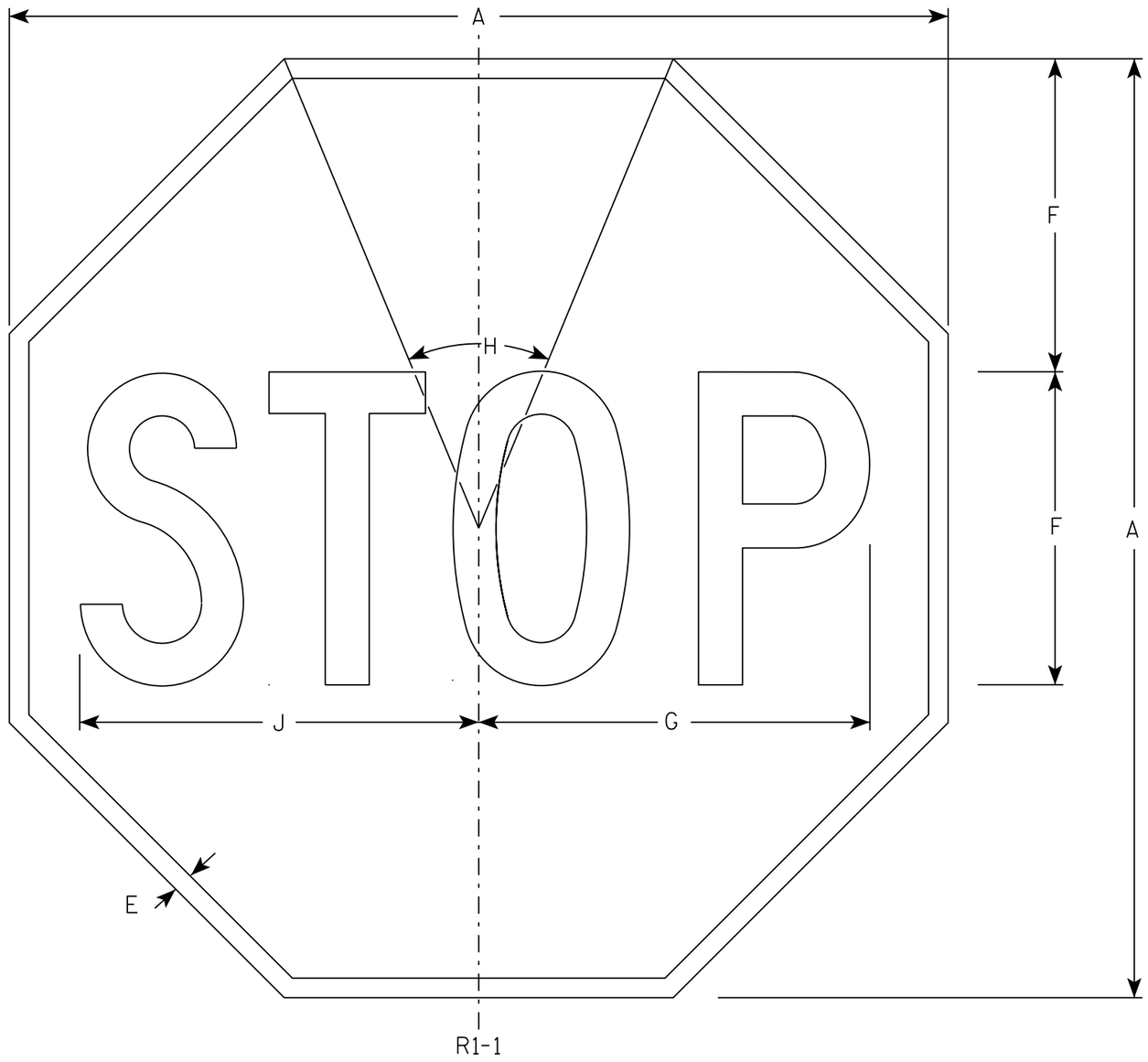
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 125 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

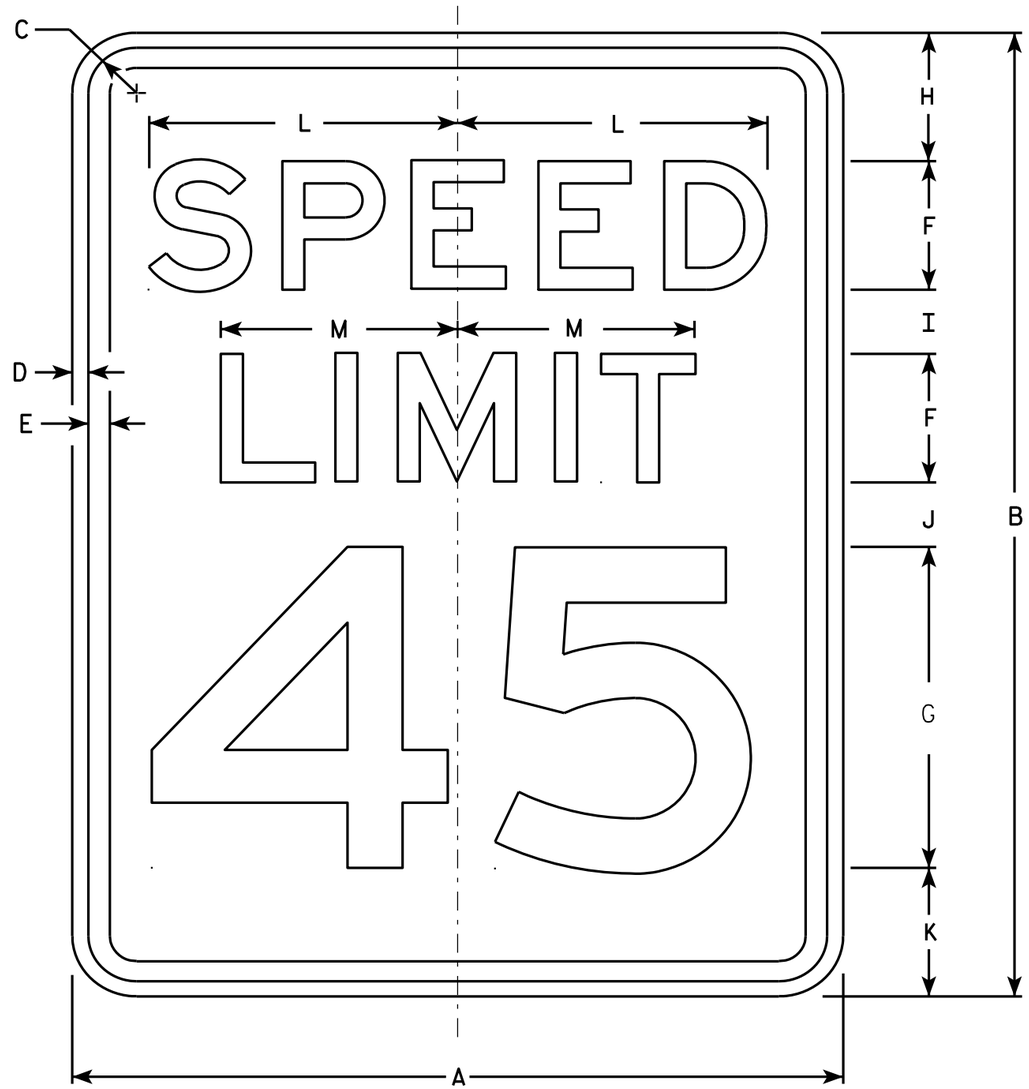
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 126	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

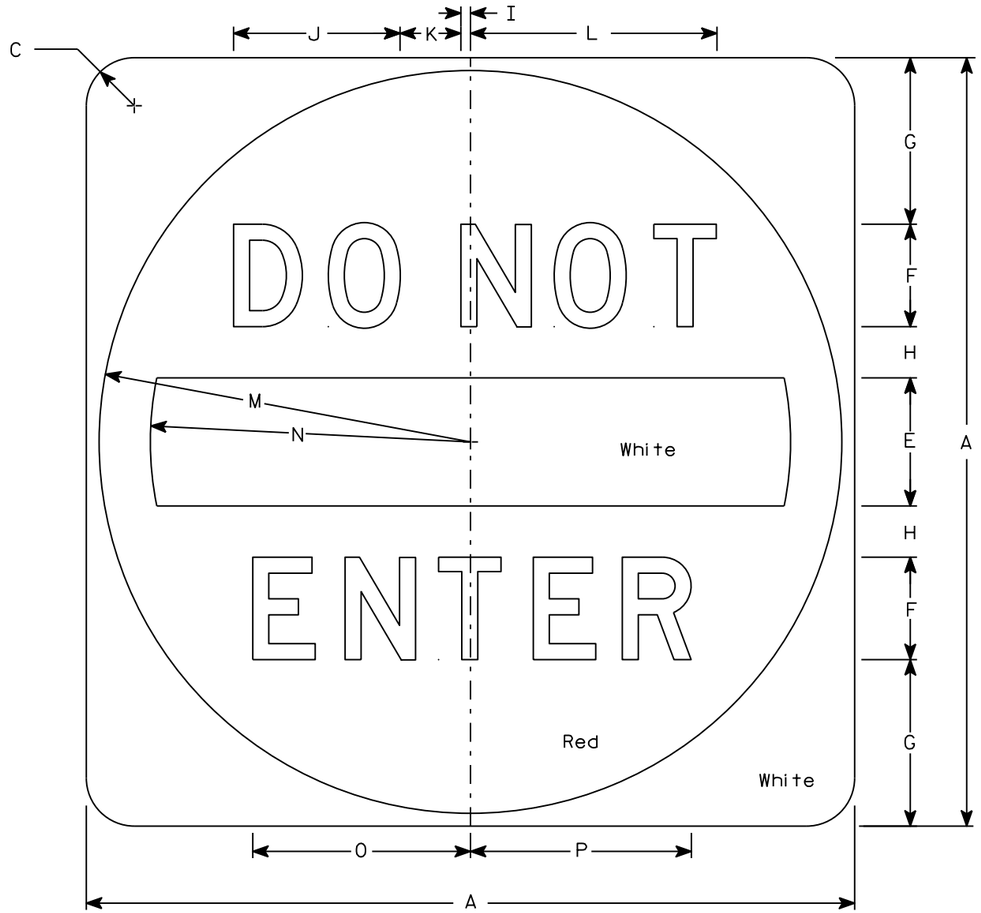
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 127 | E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

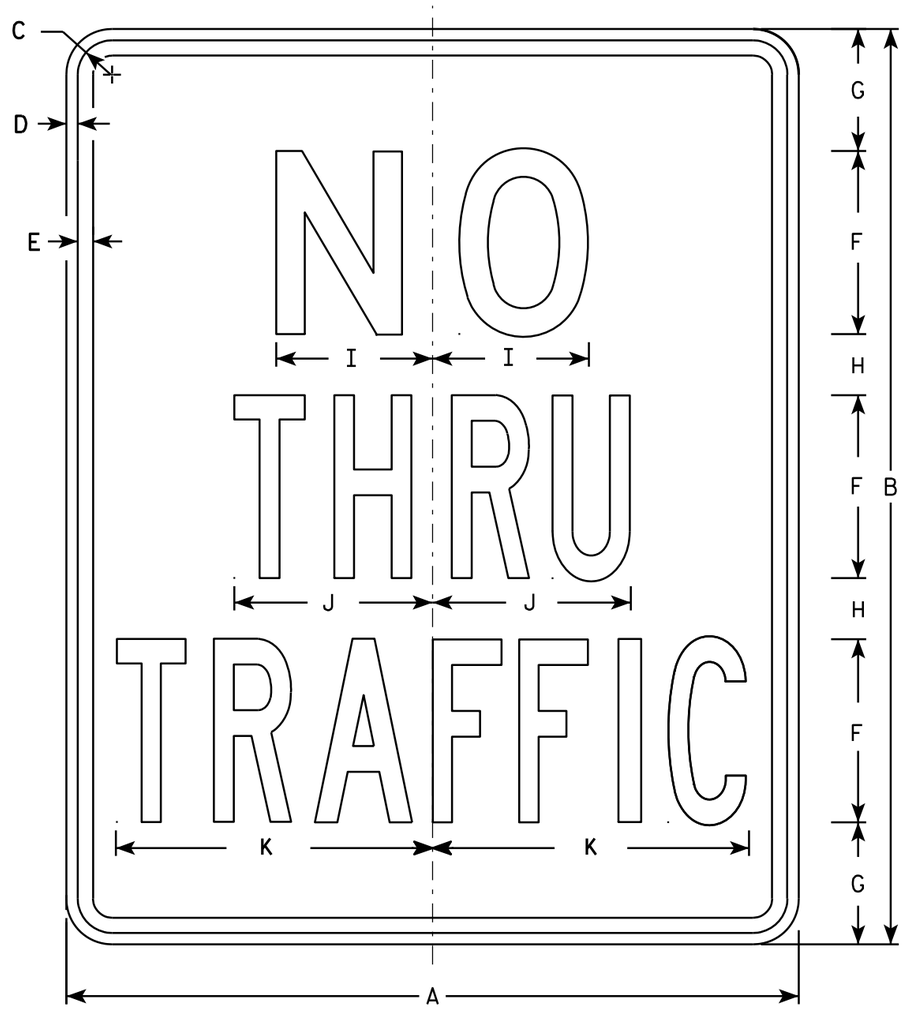
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 128 | E



R5-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Line 1 is Series D and Lines 2 and 3 are Series B.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	6	4	2	5 1/8	6 1/2	10 3/8																5.0
2M	24	30	1 1/8	3/8	1/2	6	4	2	5 1/8	6 1/2	10 3/8																5.0
3																											
4																											
5																											

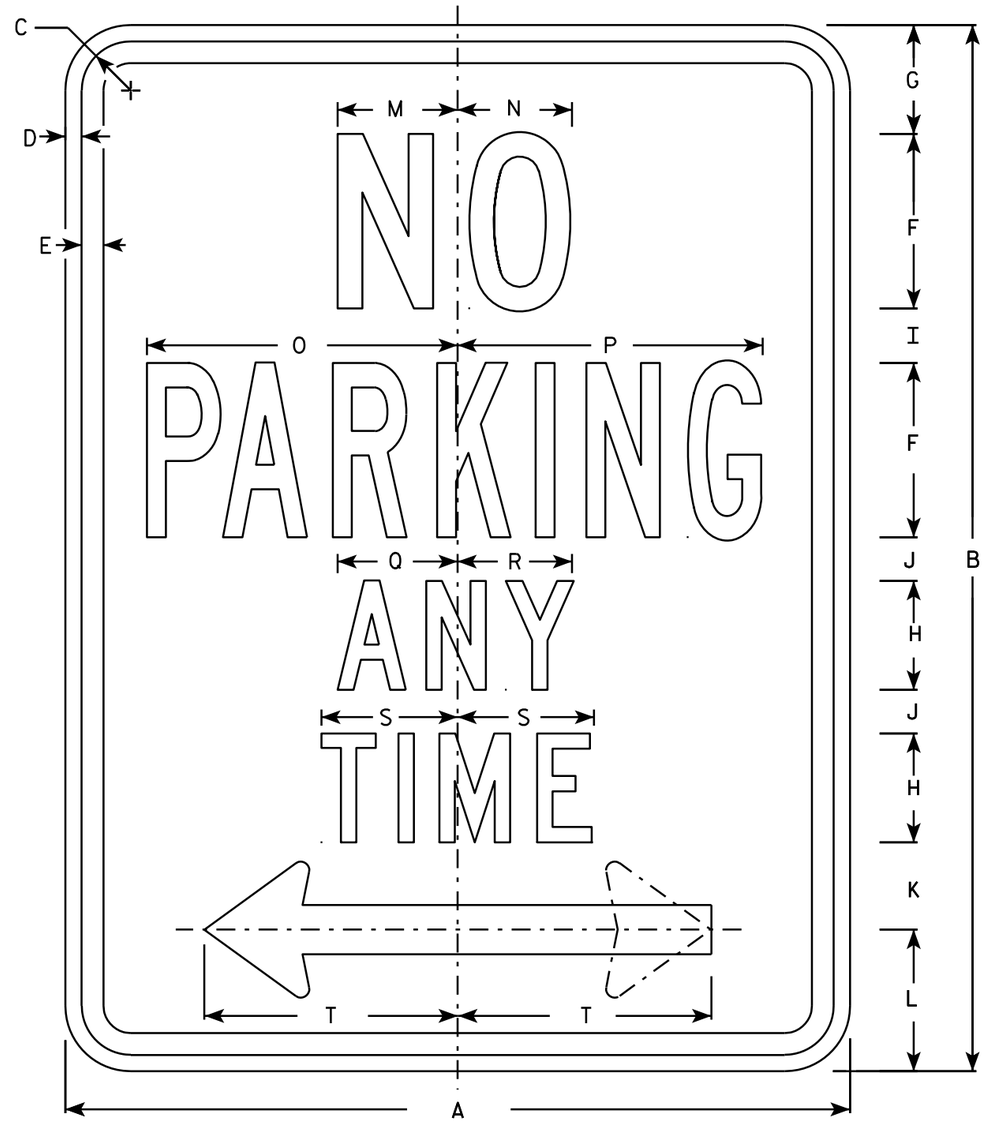
STANDARD SIGN
R5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-54.6

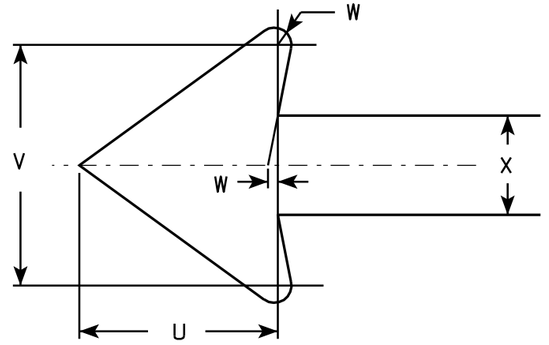
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 129	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

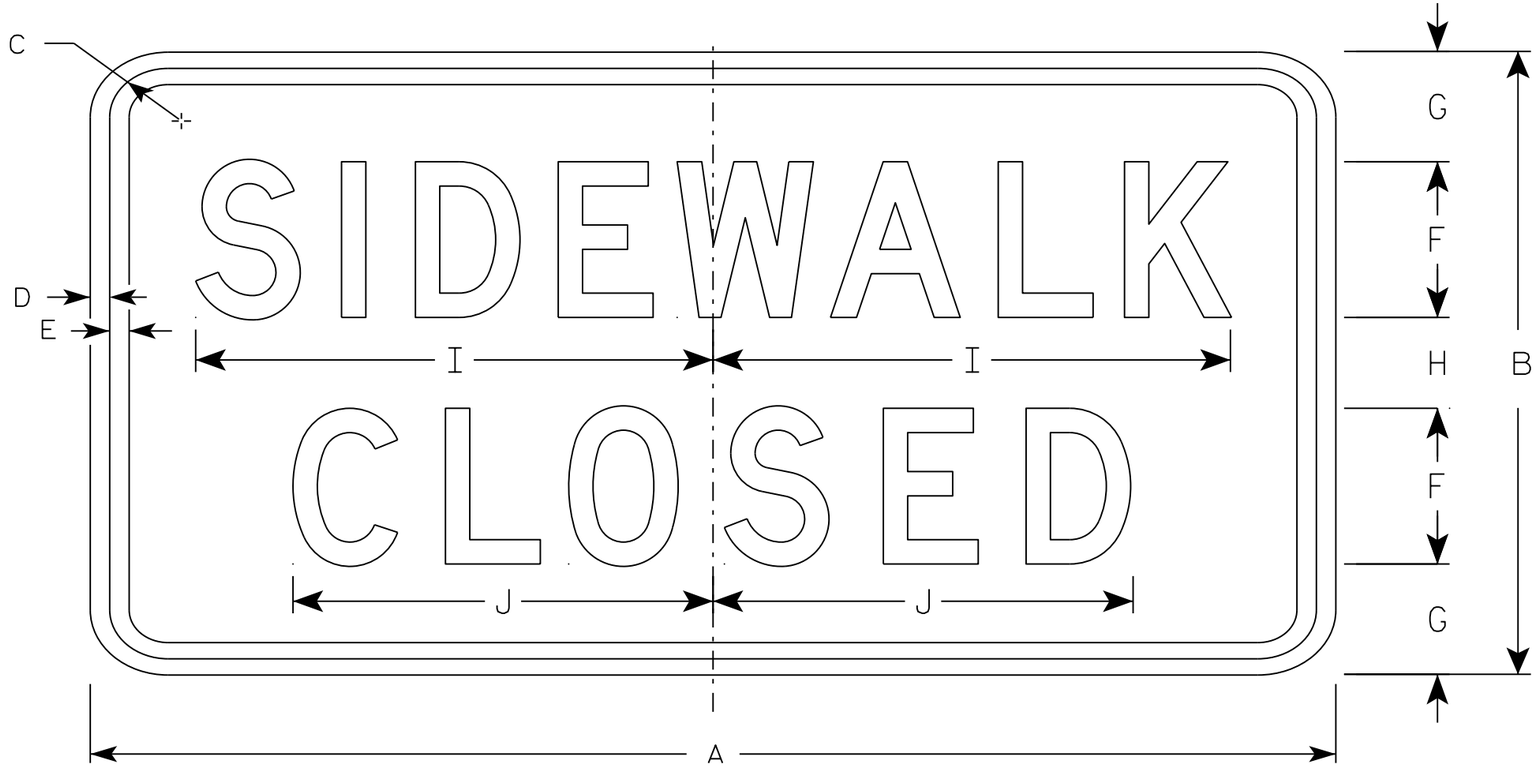
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 130	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

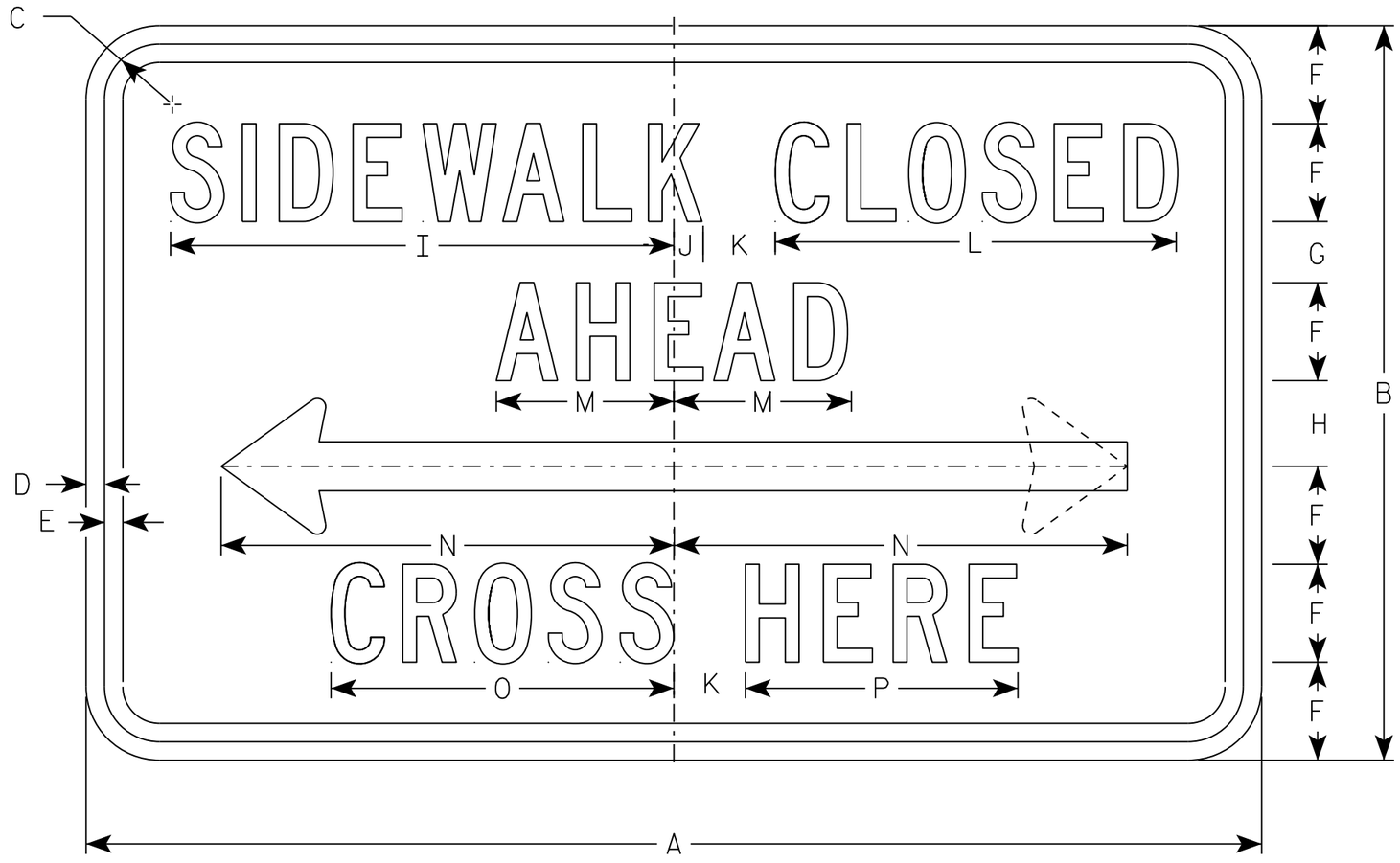
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

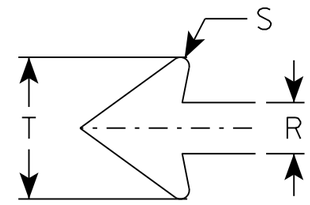
DATE 8/11/16 PLATE 131 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-11



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

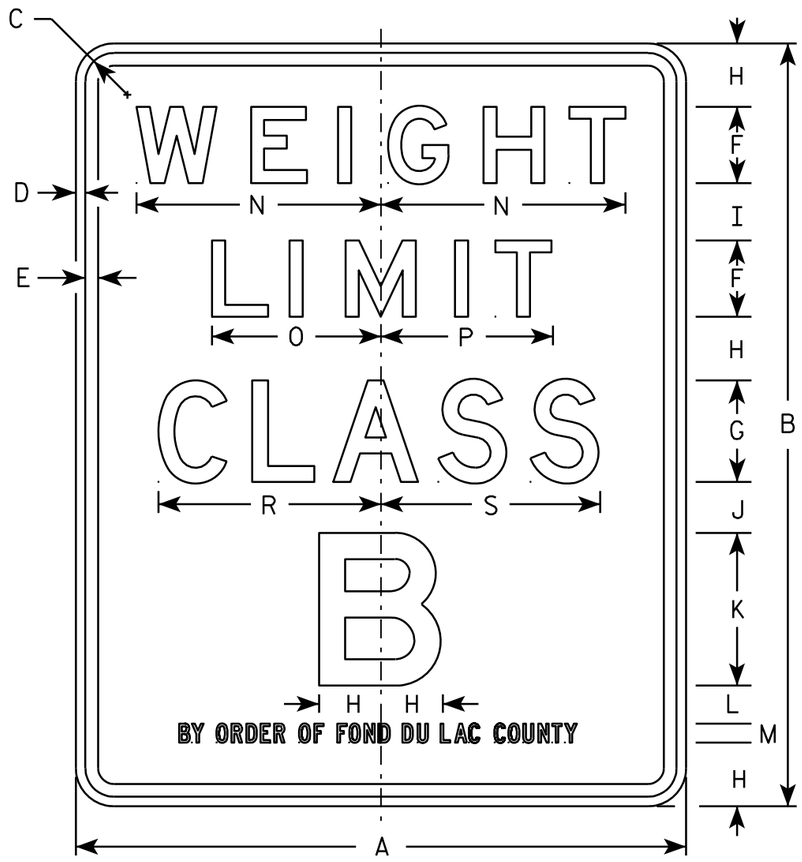
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R9-11.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 132	E



R12-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 2 & 4 are Series E.
   Line 3 is Series D.
   Line 5 is Series C.
6. Line 5 of the sign shall vary with the name of the maintaining authority.

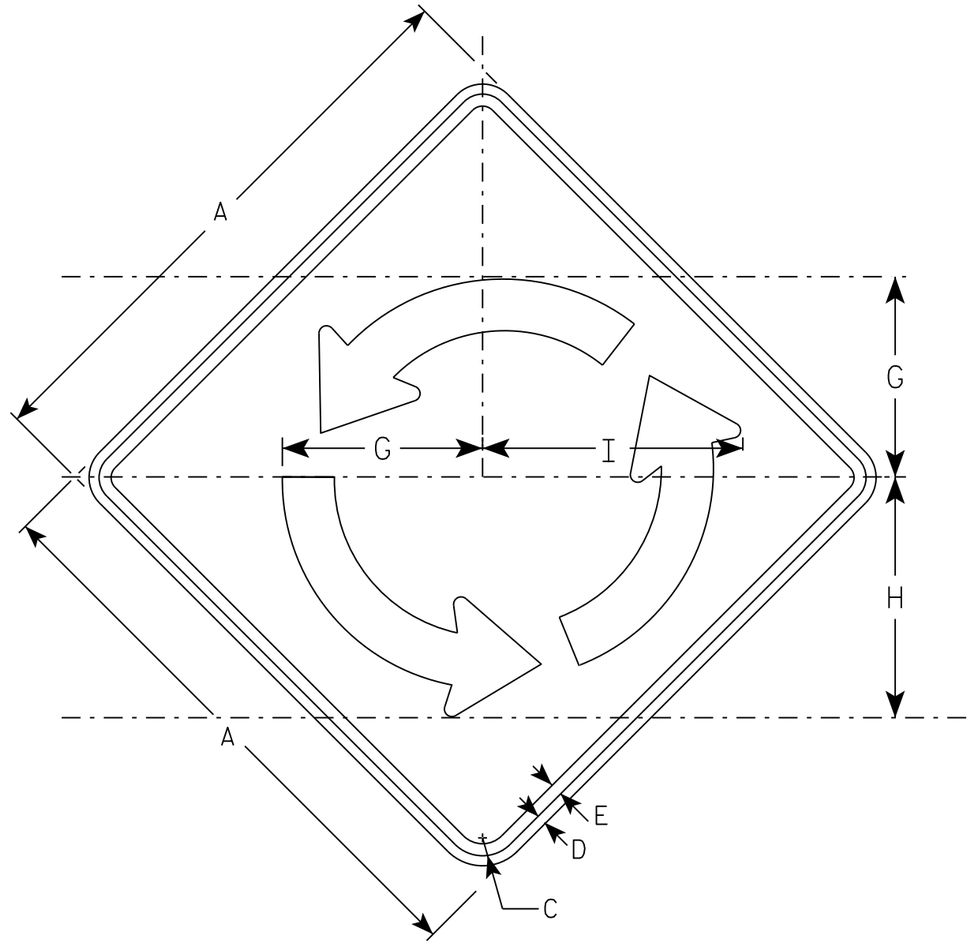
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
2M	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
3																											
4																											
5																											

STANDARD SIGN
R12-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 4/1/11 PLATE NO. R12-53.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 133	E



W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - YELLOW
   Message - BLACK

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4																9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4																16.0
5																									

STANDARD SIGN
W2-6

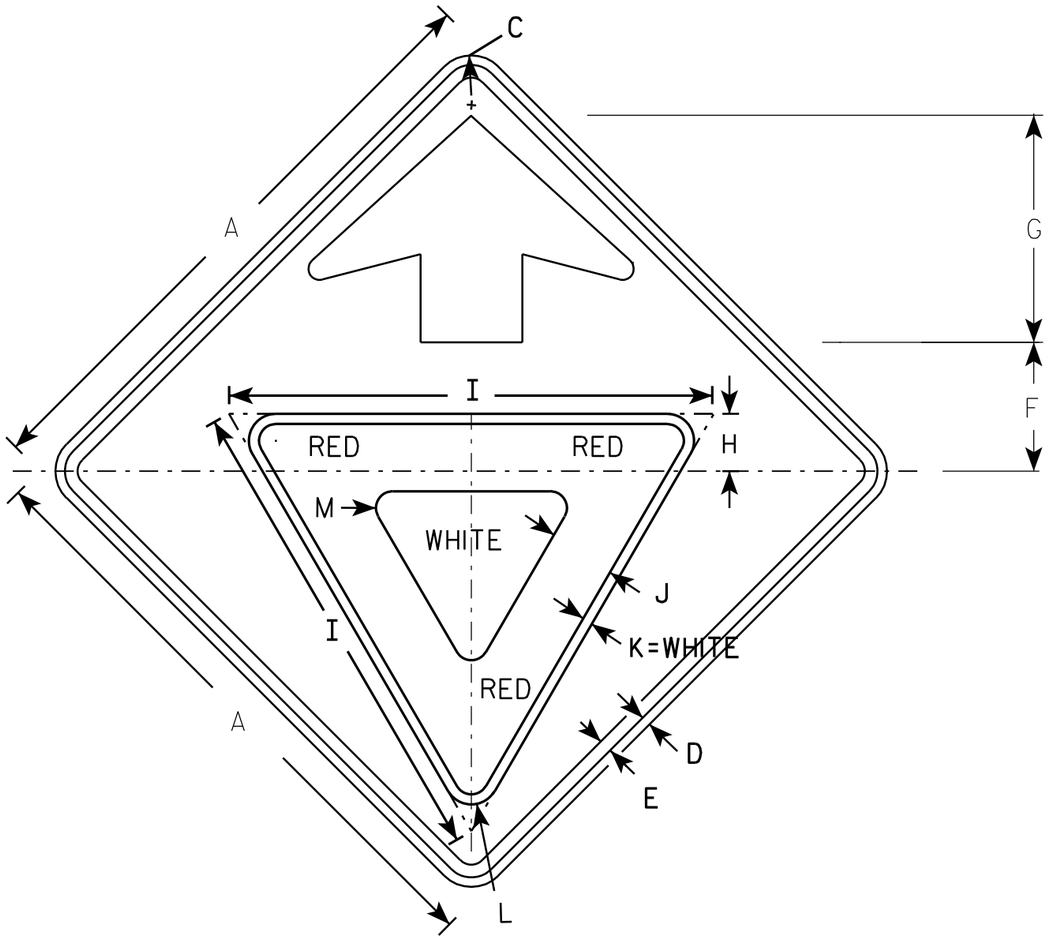
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. W2-6.6

PROJECT NO:

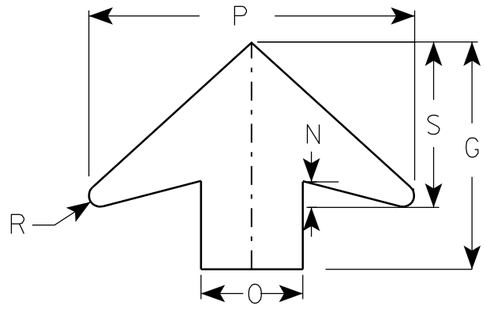
SHEET NO: 134 E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

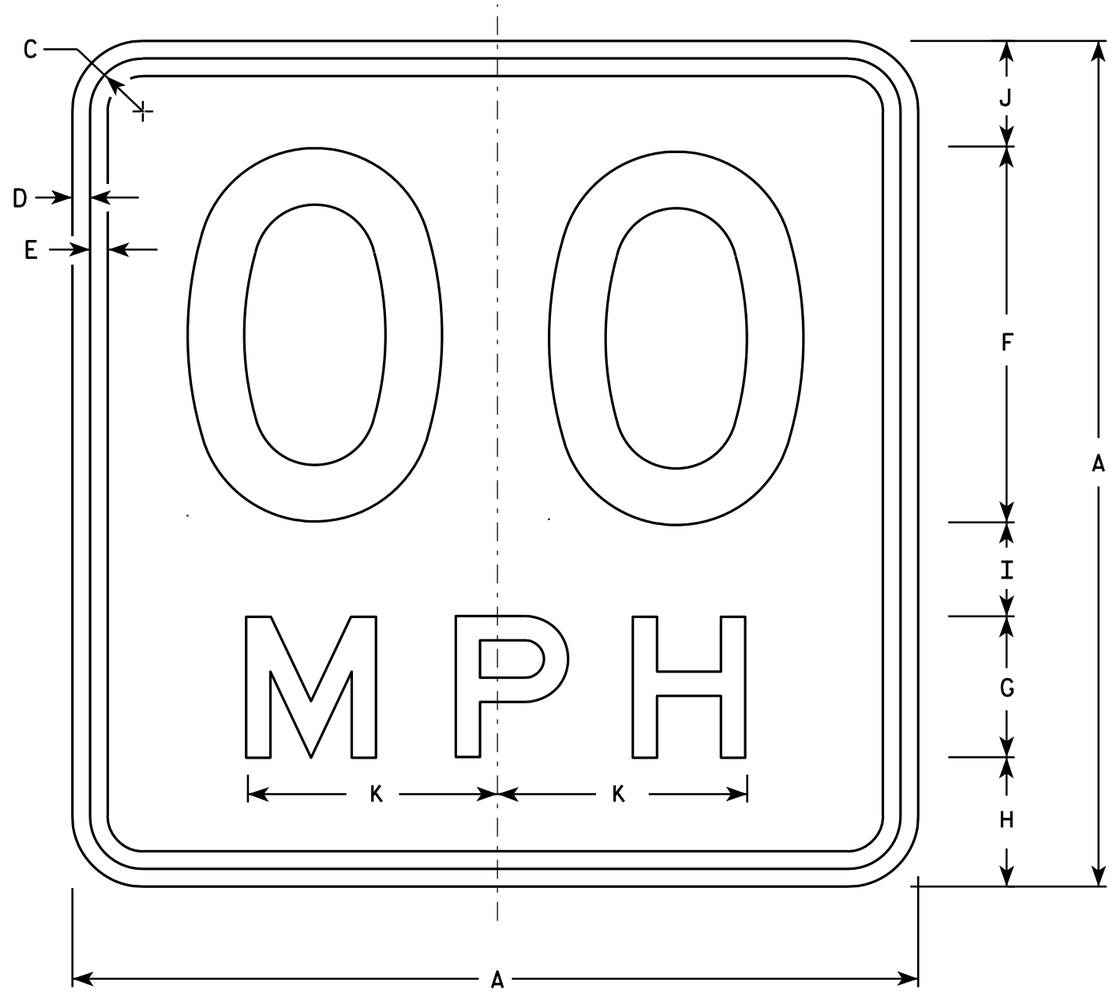
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 135 E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

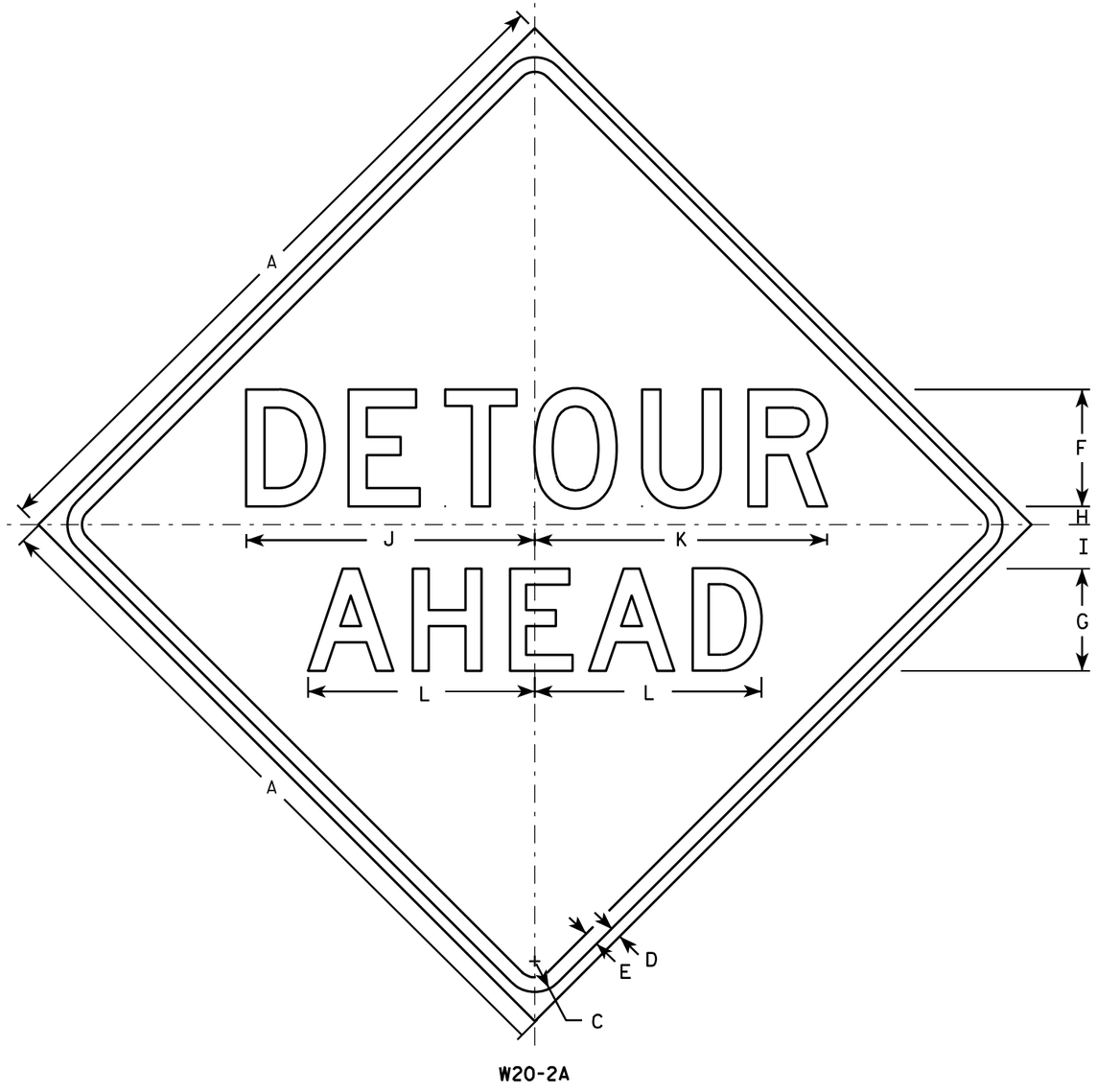
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

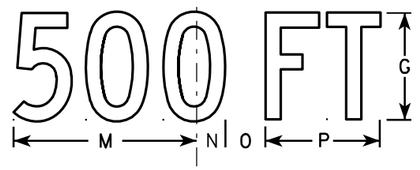
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

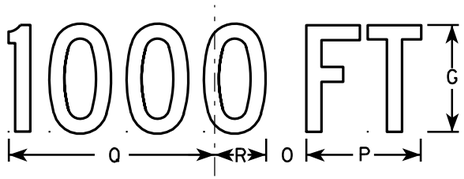
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 136 | E



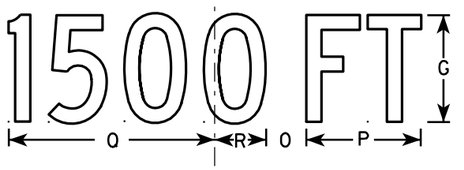
W20-2A



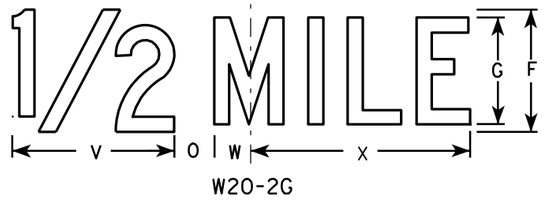
W20-2D



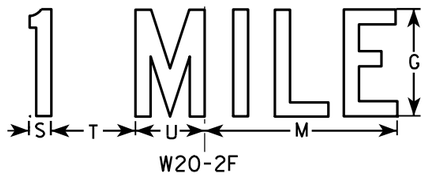
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 137 | E

Clay Street										
		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	DISTANCE	CUT	FILL	EBS	CUT NOTE 1	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 4
10+50.00		56	0	3	0	0	0	0	0	0
10+63.00	13	80	1	4	33	0	2	33	0	33
10+75.00	12	68	0	3	33	0	2	65	0	65
11+00.00	25	71	0	4	64	0	3	130	0	129
DANN ST	---	---	---	---	93	0	5	223	0	223
11+15.00	15	90	0	4	45	0	2	268	0	267
11+25.00	10	76	0	4	31	0	2	298	0	298
11+50.00	25	78	0	4	71	0	4	370	0	369
11+61.00	11	90	0	4	34	0	2	404	0	404
11+75.00	14	77	0	4	43	0	2	447	0	447
12+00.00	25	72	0	4	69	0	3	516	1	515
12+09.00	9	83	0	4	26	0	1	542	1	541
12+25.00	16	70	0	4	46	0	2	587	1	587
12+50.00	25	65	0	3	63	0	3	650	1	649
12+69.00	19	78	0	4	50	0	3	700	1	699
12+75.00	6	59	3	3	15	0	1	716	1	714
13+00.00	25	60	1	3	55	2	3	770	4	766
13+17.00	17	75	0	4	43	1	2	813	5	808
13+25.00	8	64	1	3	21	0	1	834	5	829
13+50.00	25	66	1	3	60	0	3	894	5	889
13+75.00	25	72	1	4	64	1	3	958	6	951
13+80.00	5	87	0	4	15	0	1	972	6	966
14+00.00	20	77	1	4	61	0	3	1,033	7	1,026
14+25.00	25	78	1	4	72	1	4	1,105	8	1,097
14+43.00	18	94	0	5	57	0	3	1,163	8	1,154
14+50.00	7	80	0	4	23	0	1	1,185	8	1,177
14+75.00	25	96	0	5	81	0	4	1,266	8	1,258
14+95.00	20	143	0	7	88	0	4	1,355	8	1,347
15+00.00	5	181	0	9	30	0	2	1,385	8	1,377
15+06.00	6	143	0	7	36	0	2	1,421	8	1,413
15+25.00	19	126	0	6	95	0	5	1,516	8	1,508
15+50.00	25	154	0	8	130	0	6	1,646	8	1,637
15+75.00	25	146	0	7	139	0	7	1,784	8	1,776
16+00.00	25	92	0	5	110	0	5	1,894	8	1,886
16+25.00	25	79	0	4	79	0	4	1,973	8	1,965
16+50.00	25	56	0	3	62	0	3	2,036	9	2,027
16+56.00	6	56	1	3	12	0	1	2,048	9	2,040
16+75.00	19	48	3	2	37	0	2	2,085	9	2,076
17+00.00	25	58	1	3	49	1	3	2,134	10	2,123
17+25.00	25	55	3	3	53	2	3	2,186	12	2,174
17+50.00	25	53	3	3	50	3	3	2,237	16	2,221
17+56.00	6	64	2	3	13	1	1	2,250	17	2,233
17+66.00	10	64	0	3	24	0	1	2,273	17	2,256
17+75.00	9	56	3	3	20	0	1	2,293	18	2,276
18+00.00	25	56	1	3	52	2	3	2,345	20	2,325
18+25.00	25	60	1	3	54	1	3	2,399	21	2,378
18+50.00	25	70	0	3	60	0	3	2,459	21	2,438
18+60.00	10	70	0	3	26	0	1	2,485	21	2,464
18+75.00	15	78	0	4	41	0	2	2,526	21	2,505
19+00.00	25	79	0	4	73	0	4	2,599	21	2,578

CONT'D NEXT PAGE

Clay Street										
		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	DISTANCE	CUT	FILL	EBS	CUT NOTE 1	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 4
19+25.00	25	83	0	4	75	0	4	2,674	22	2,653
19+50.00	25	72	0	4	72	0	4	2,746	22	2,724
19+68.00	18	79	1	4	50	0	3	2,797	22	2,774
19+75.00	7	80	1	4	21	0	1	2,817	23	2,794
19+90.00	15	76	0	4	43	0	2	2,860	23	2,837
20+00.00	10	64	1	3	26	0	1	2,886	23	2,863
20+25.00	25	62	1	3	58	1	3	2,944	25	2,920
20+50.00	25	70	2	3	61	1	3	3,005	26	2,979
20+75.00	25	76	0	4	67	1	3	3,073	28	3,045
20+84.00	9	82	0	4	26	0	1	3,099	28	3,071
21+00.00	16	79	1	4	48	0	2	3,147	28	3,119
21+25.00	25	87	0	4	77	0	4	3,224	28	3,195
21+43.00	18	98	0	5	62	0	3	3,286	28	3,257
21+50.00	7	91	0	5	25	0	1	3,310	28	3,282
21+75.00	25	86	0	4	82	0	4	3,392	28	3,364
22+00.00	25	78	0	4	76	0	4	3,468	28	3,440
22+25.00	25	65	1	3	66	0	3	3,534	29	3,505
22+39.00	14	72	2	4	36	1	2	3,570	30	3,540
22+50.00	11	53	3	3	26	1	1	3,595	31	3,564
22+75.00	25	62	4	3	53	3	3	3,649	35	3,614
23+00.00	25	46	4	2	50	4	3	3,699	40	3,659
23+25.00	25	47	5	2	43	4	2	3,742	45	3,698
23+50.00	25	57	0	3	48	2	2	3,790	47	3,743
23+75.00	25	55	4	3	52	2	3	3,842	50	3,792
ESTERLY ST	---	---	---	---	171	0	9	4,013	50	3,964
24+00.00	25	58	4	3	53	4	3	4,066	55	4,011
24+25.00	25	54	5	3	52	4	3	4,118	60	4,058
24+39.00	14	67	0	3	31	1	2	4,149	62	4,088
NEWCOMB ST	---	---	---	---	73	0	4	4,222	62	4,161
24+50.00	11	64	0	3	27	0	1	4,249	62	4,187
24+75.00	25	50	6	3	53	3	3	4,302	65	4,237
25+00.00	25	51	7	3	47	6	2	4,348	72	4,276
25+25.00	25	50	7	2	47	7	2	4,395	81	4,314
25+35.00	10	63	7	3	21	3	1	4,416	84	4,332
25+50.00	15	46	7	2	30	4	2	4,446	89	4,357
25+75.00	25	47	6	2	43	6	2	4,489	97	4,393
26+00.00	25	59	3	3	49	4	2	4,539	102	4,436
26+25.00	25	51	1	3	51	2	3	4,590	104	4,485
26+50.00	25	54	1	3	49	1	2	4,638	105	4,533
26+75.00	25	55	2	3	51	1	3	4,689	107	4,582
27+00.00	25	53	2	3	50	2	2	4,739	109	4,630
27+25.00	25	58	4	3	51	3	3	4,790	113	4,677
BISHOP ST	---	---	---	---	126	0	6	4,916	113	4,803
27+35.00	10	73	0	4	24	1	1	4,940	114	4,826
27+50.00	15	56	3	3	36	1	2	4,976	115	4,861
27+75.00	25	92	2	5	68	2	3	5,045	118	4,927
28+00.00	25	100	1	5	88	1	4	5,133	119	5,014
28+25.00	25	113	0	6	99	0	5	5,232	120	5,112
28+50.00	25	120	3	6	108	1	5	5,340	121	5,219
28+75.00	25	124	2	6	113	2	6	5,453	124	5,329

CONT'D NEXT PAGE

Clay Street										
		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	DISTANCE	CUT	FILL	EBS	CUT NOTE 1	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 4
29+00.00	25	133	2	7	119	2	6	5,572	126	5,446
29+25.00	25	112	0	6	114	1	6	5,685	127	5,559
29+50.00	25	103	1	5	99	0	5	5,785	127	5,657
29+75.00	25	73	2	4	82	1	4	5,866	129	5,737
30+00.00	25	61	1	3	62	1	3	5,929	131	5,798
30+25.00	25	64	0	3	58	0	3	5,987	131	5,855
30+33.00	8	62	0	3	19	0	1	6,005	131	5,874
30+50.00	17	55	1	3	37	0	2	6,042	132	5,911
30+75.00	25	49	0	2	48	1	2	6,090	132	5,958
TAFT ST	---	---	---	---	55	0	3	6,146	132	6,014
31+00.00	25	50	1	3	46	1	2	6,191	133	6,058
31+25.00	25	53	13	3	48	7	2	6,239	141	6,098
31+37.00	12	83	12	4	30	6	2	6,269	148	6,121
31+50.00	13	79	9	4	39	5	2	6,308	155	6,154
31+75.00	25	88	7	4	77	7	4	6,386	164	6,222
31+85.00	10	84	7	4	32	3	2	6,417	167	6,251
32+00.00	15	59	13	3	40	6	2	6,457	174	6,283
32+25.00	25	56	17	3	53	14	3	6,511	192	6,319
32+50.00	25	39	27	2	44	21	2	6,555	217	6,337
32+75.00	25	20	40	1	27	31	1	6,582	256	6,325
33+00.00	25	8	51	0	13	42	1	6,595	309	6,285
33+25.00	25	3	71	0	5	56	0	6,600	380	6,220
33+50.00	25	0	72	0	2	66	0	6,602	462	6,139
33+75.00	25	0	80	0	0	70	0	6,602	550	6,051
34+00.00	25	0	86	0	0	77	0	6,602	646	5,955
34+25.00	25	0	65	0	0	70	0	6,602	734	5,868
34+50.00	25	3	47	0	1	52	0	6,603	799	5,804
34+75.00	25	7	44	0	5	43	0	6,607	852	5,755
35+00.00	25	21	39	1	13	39	1	6,620	900	5,720
35+10.00	10	21	37	1	8	14	0	6,628	918	5,710
35+25.00	15	42	30	2	17	19	1	6,645	941	5,704
35+50.00	25	31	38	2	34	31	2	6,679	980	5,699
35+75.00	25	39	19	2	33	26	2	6,712	1,013	5,699
36+00.00	25	47	13	2	40	15	2	6,751	1,031	5,720
36+25.00	25	40	7	2	40	9	2	6,792	1,043	5,749
36+38.00	13	50	7	3	22	3	1	6,813	1,047	5,766
36+50.00	12	47	7	2	22	3	1	6,835	1,051	5,784
36+75.00	25	46	5	2	43	6	2	6,878	1,058	5,820
37+00.00	25	67	0	3	52	2	3	6,930	1,061	5,869
37+25.00	25	63	0	3	60	0	3	6,990	1,061	5,929
RICE ST	---	---	---	---	85	0	4	7,075	1,061	6,015
37+50.00	25	57	7	3	56	3	3	7,131	1,065	6,066
37+69.00	19	94	0	5	53	2	3	7,184	1,068	6,116
37+75.00	6	98	0	5	21	0	1	7,205	1,068	6,138
38+00.00	25	80	1	4	82	0	4	7,288	1,068	6,220
38+25.00	25	81	1	4	74	1	4	7,362	1,069	6,293
38+50.00	25	86	1	4	77	1	4	7,440	1,071	6,369
38+68.00	18	113	1	6	66	1	3	7,506	1,072	6,434
38+75.00	7	90	1	5	26	0	1	7,532	1,072	6,460
39+00.00	25	116	0	6	95	0	5	7,628	1,072	6,555

CONT'D NEXT PAGE

9

9

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090103_ew.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 49

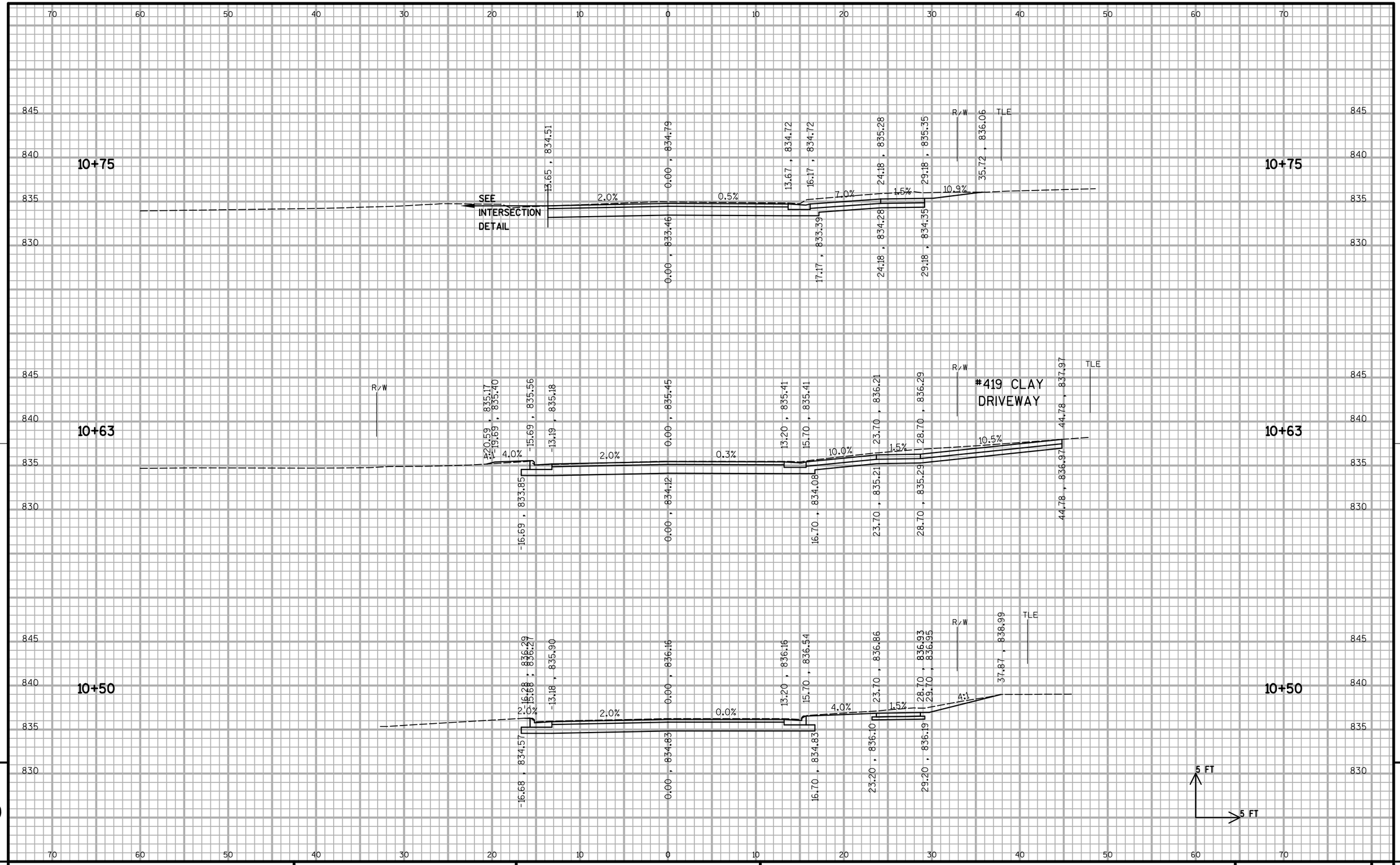
Clay Street										
		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	DISTANCE	CUT	FILL	EBS	CUT NOTE 1	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 4
39+25.00	25	104	3	5	102	1	5	7,729	1,074	6,655
39+50.00	25	73	13	4	82	8	4	7,811	1,084	6,728
39+75.00	25	61	41	3	62	25	3	7,873	1,115	6,758
39+86.00	11	103	35	5	33	15	2	7,907	1,134	6,773
40+00.00	14	74	25	4	46	15	2	7,953	1,154	6,799
40+25.00	25	68	6	3	66	14	3	8,019	1,171	6,847
40+50.00	25	64	5	3	61	5	3	8,080	1,178	6,902
40+75.00	25	59	7	3	57	6	3	8,137	1,185	6,952
41+00.00	25	57	8	3	54	7	3	8,191	1,193	6,998
41+25.00	25	58	5	3	53	6	3	8,244	1,200	7,044
41+50.00	25	5	2	0	30	3	1	8,274	1,204	7,070
41+75.00	25	3	0	0	4	1	0	8,278	1,205	7,072
42+00.00	25	3	1	0	3	0	0	8,280	1,206	7,075
42+25.00	25	2	1	0	2	1	0	8,283	1,207	7,076
42+50.00	25	2	1	0	2	1	0	8,285	1,209	7,076
42+75.00	25	3	1	0	2	1	0	8,287	1,210	7,077
			COLUMN TOTALS		8,287	968	414			

NOTES:

1) CUT: CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2) SALVAGED/UNUSABLE PAVEMENT MATERIAL: THIS IS NOT SHOWN IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE SALVAGED/UNUSABLE PAVEMENT MATERIAL
4) MASS ORDINATE: MASS ORDINATE = (CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

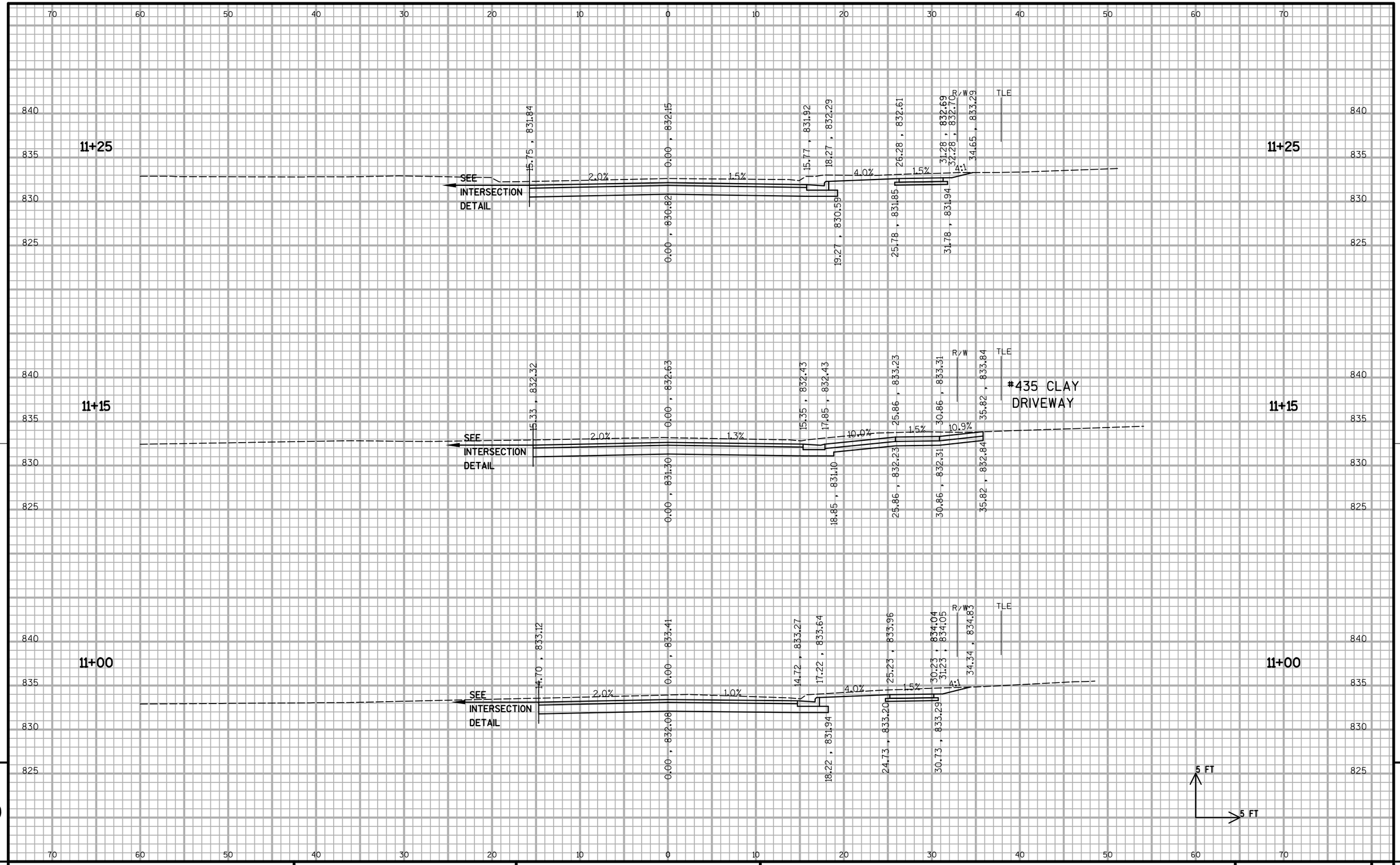
9

9

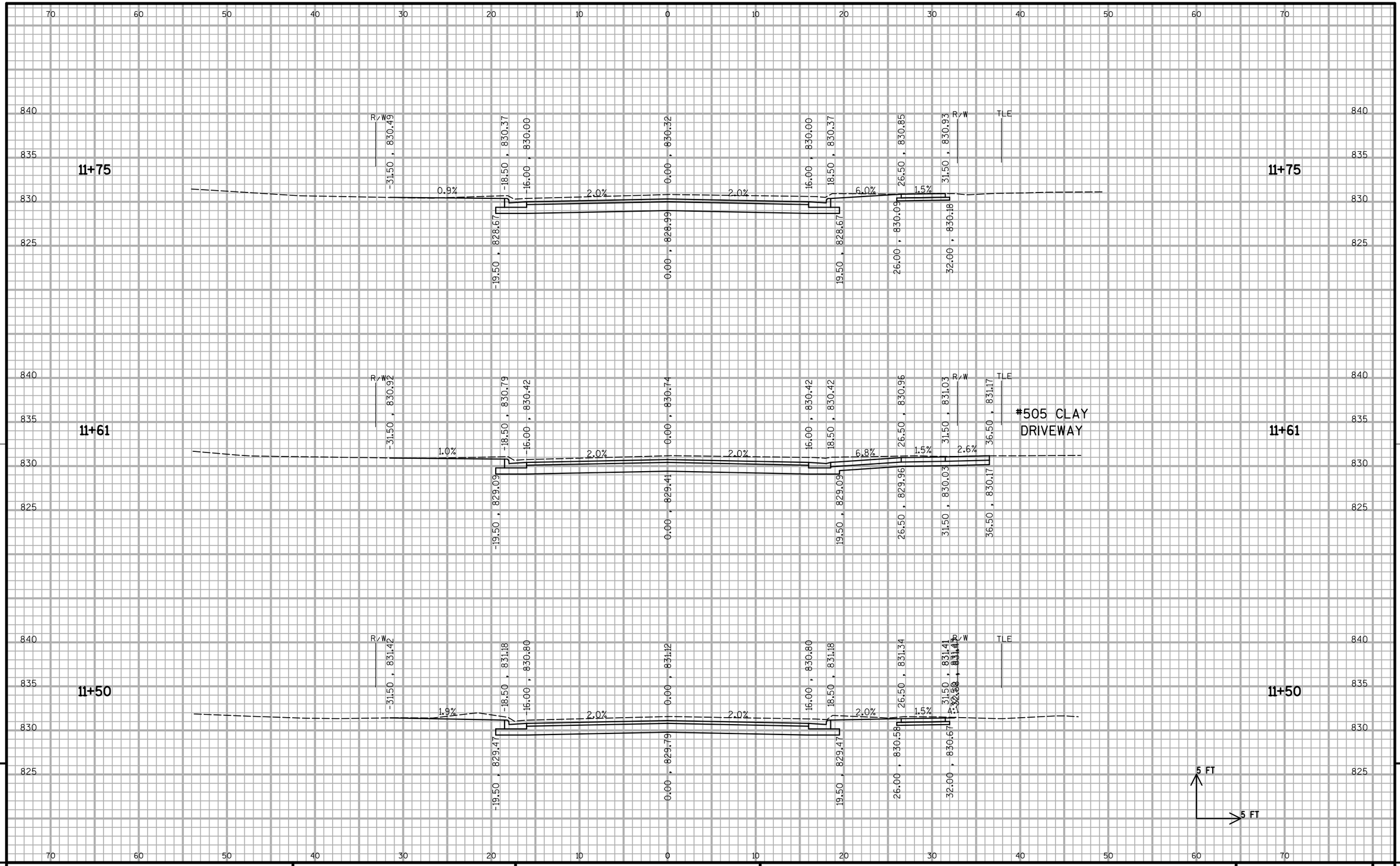


PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 142	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

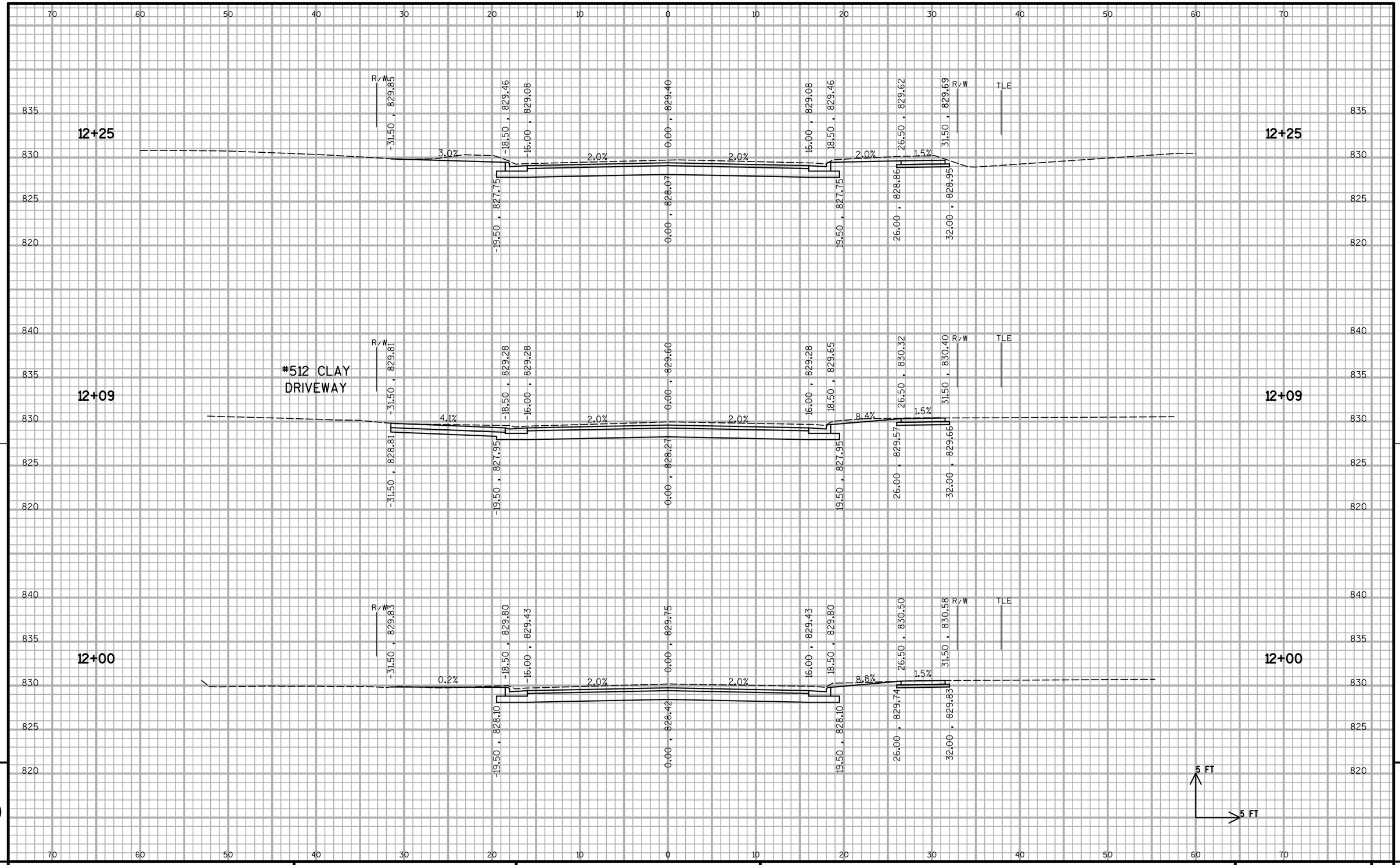


PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 143	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 144	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

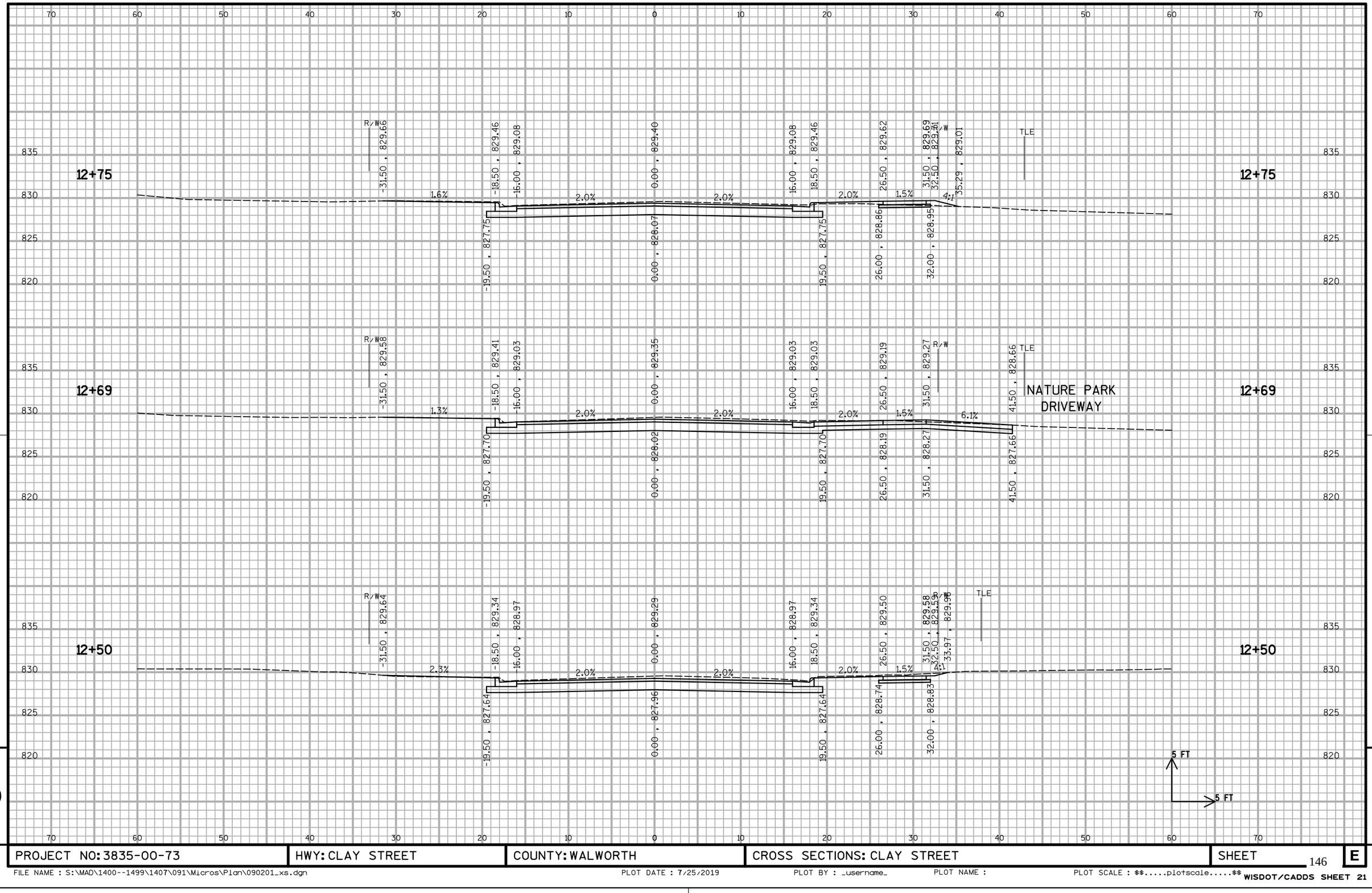


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 145	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

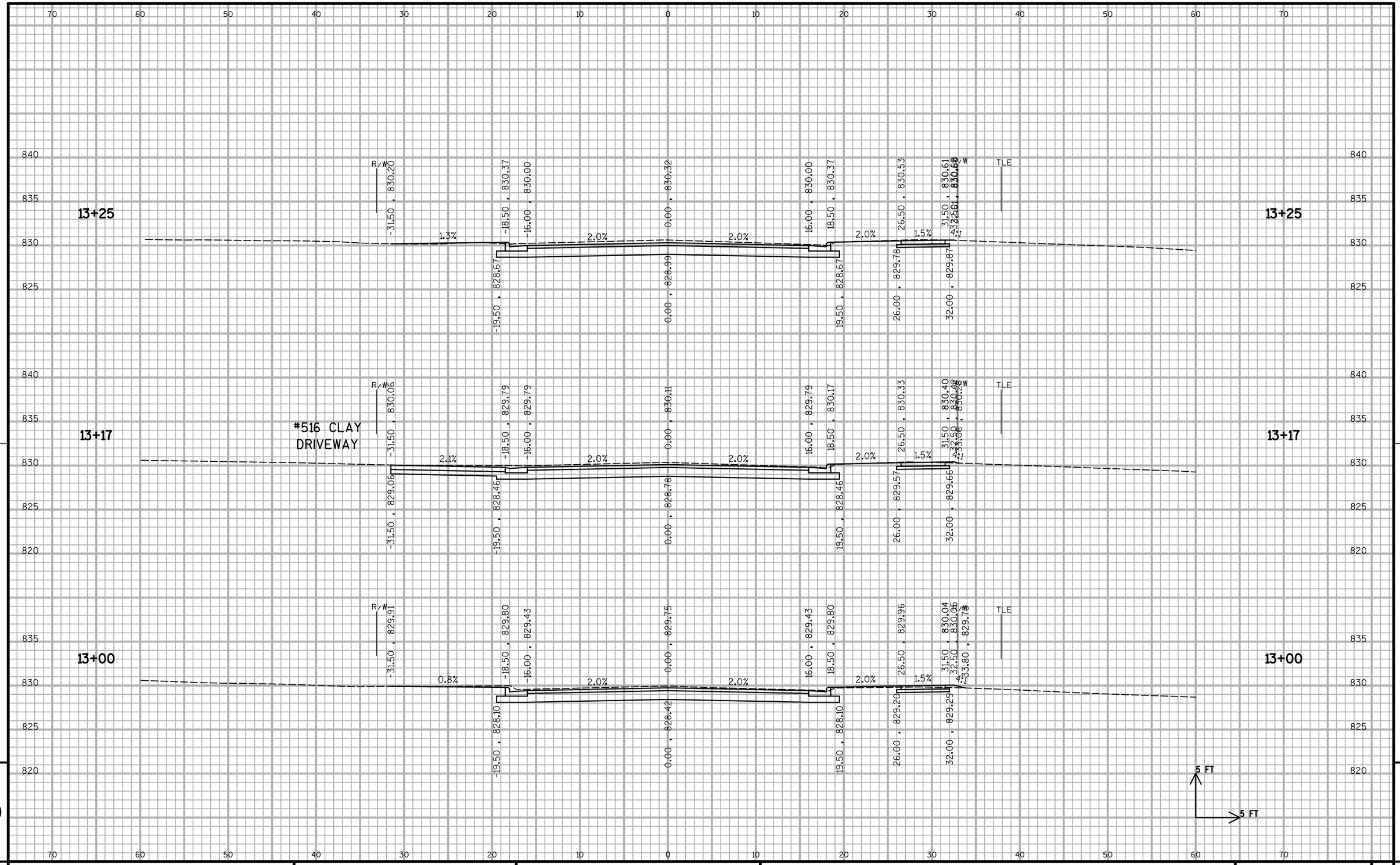


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 146	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

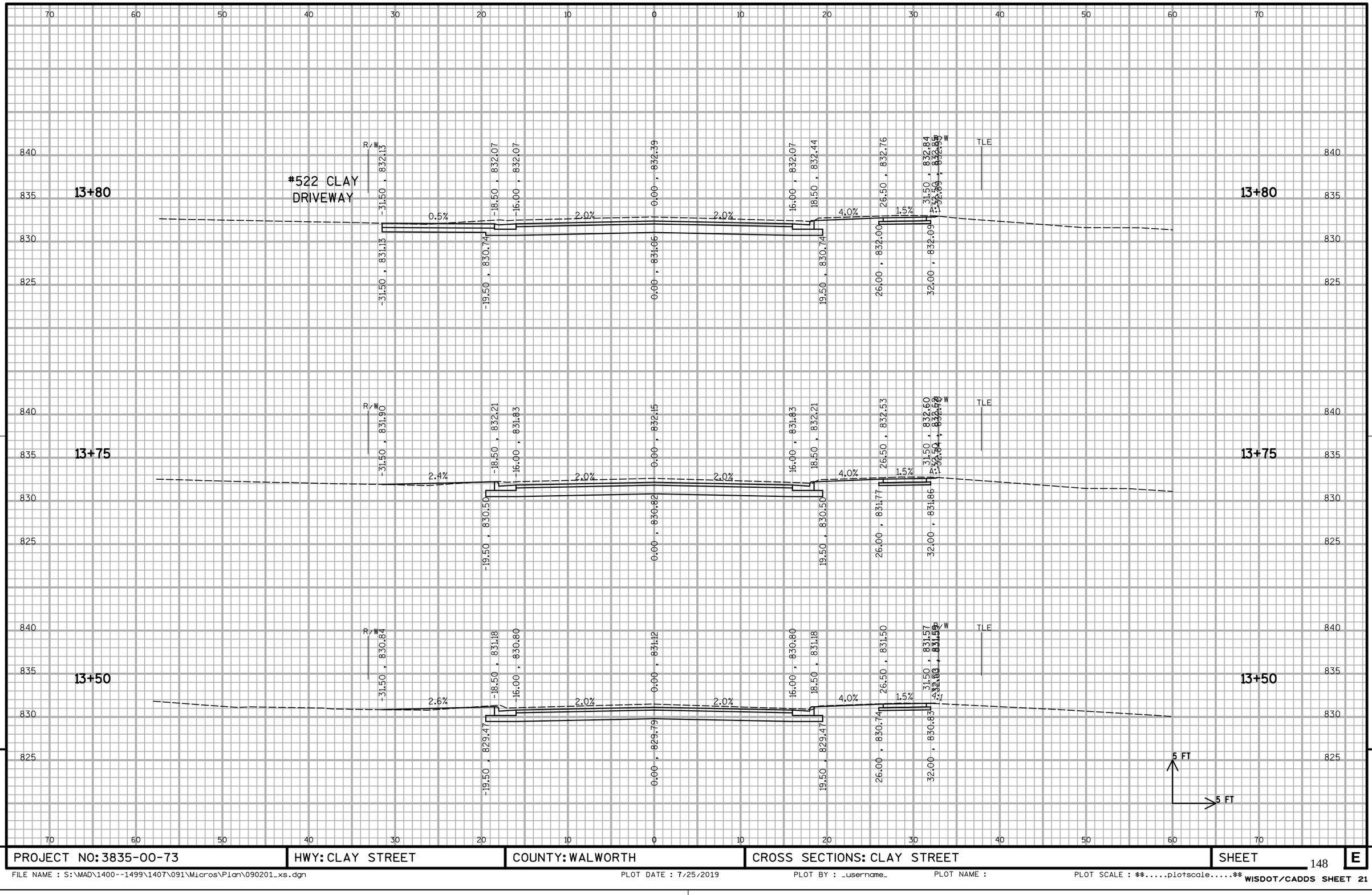


9

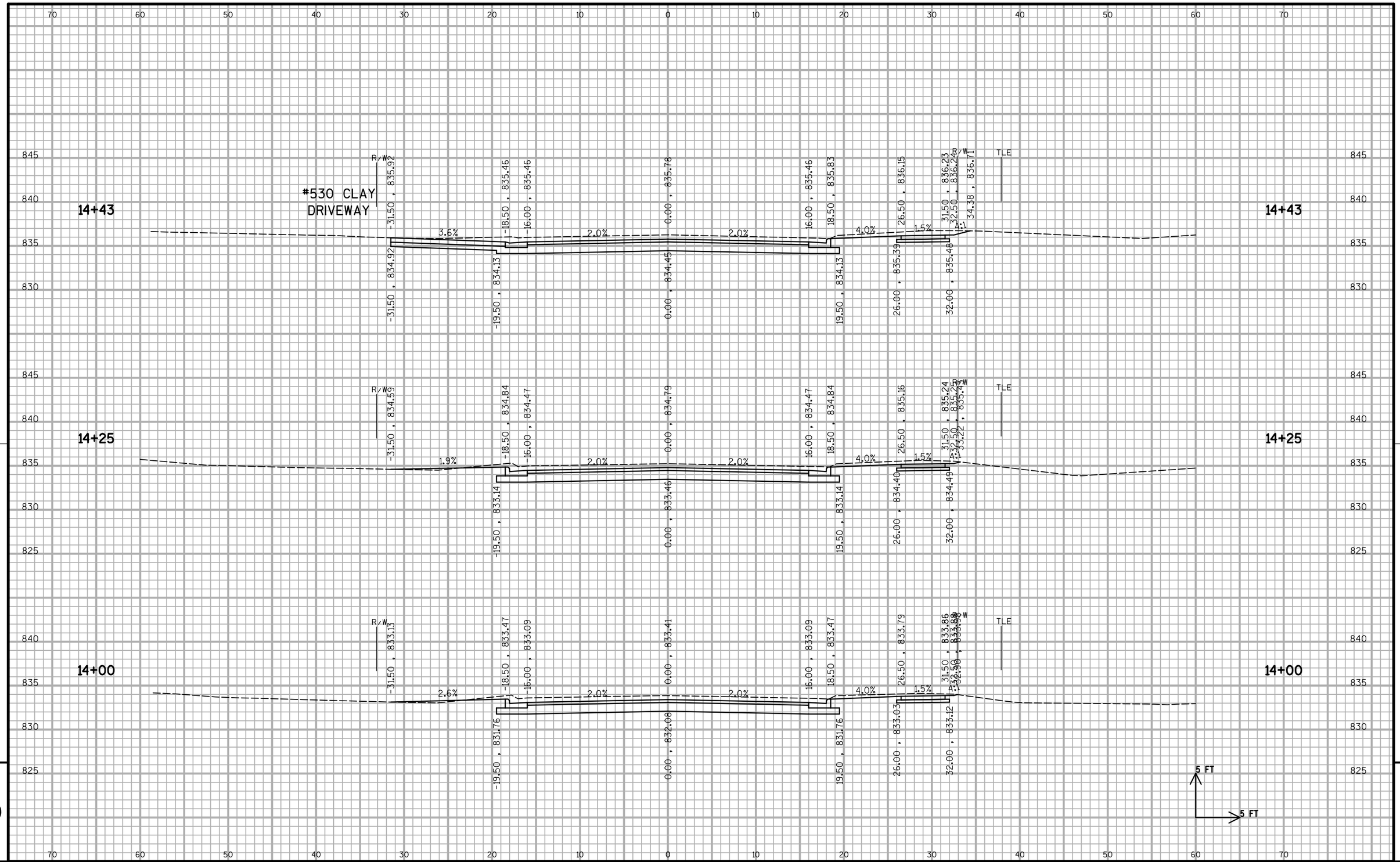
9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

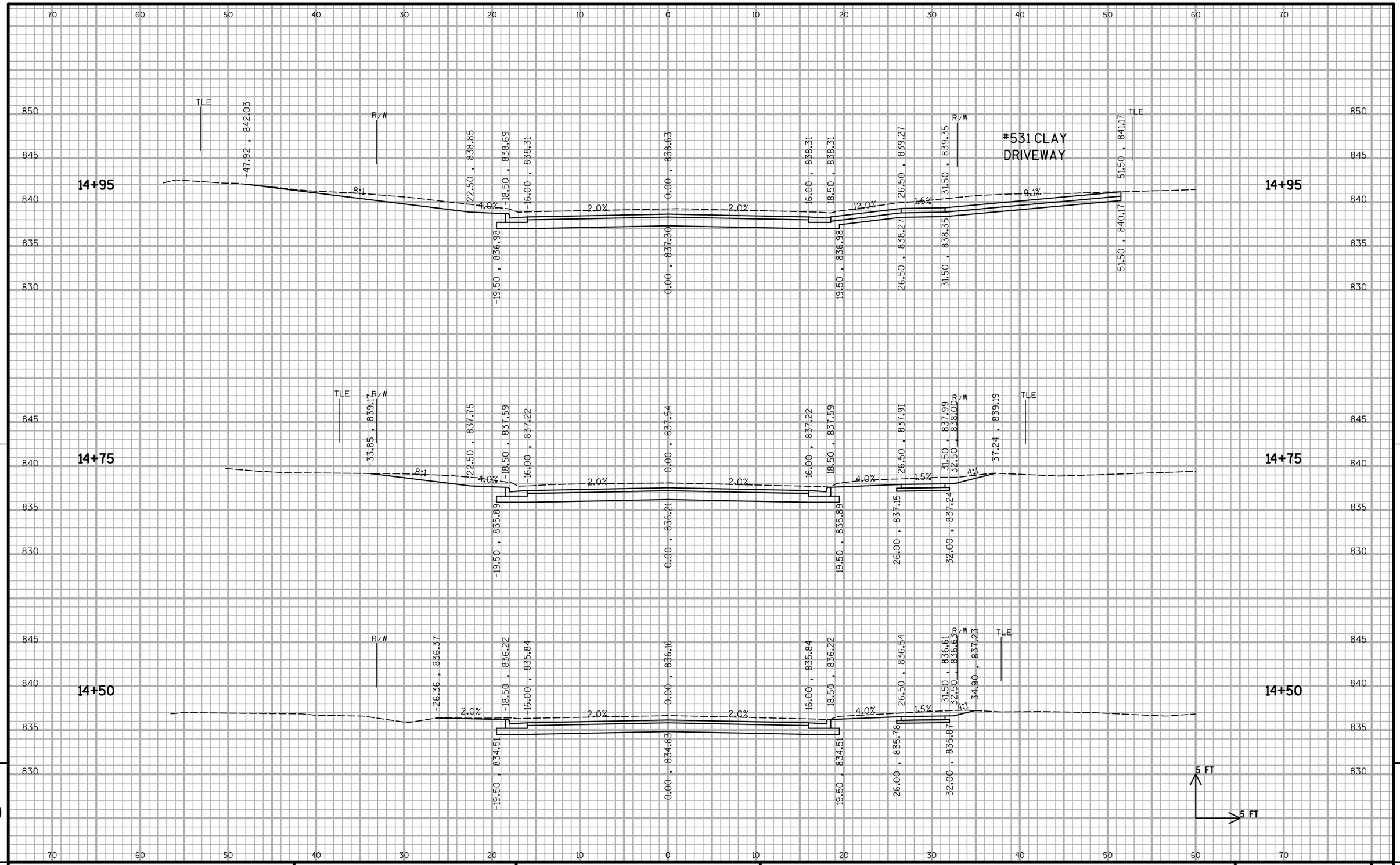
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



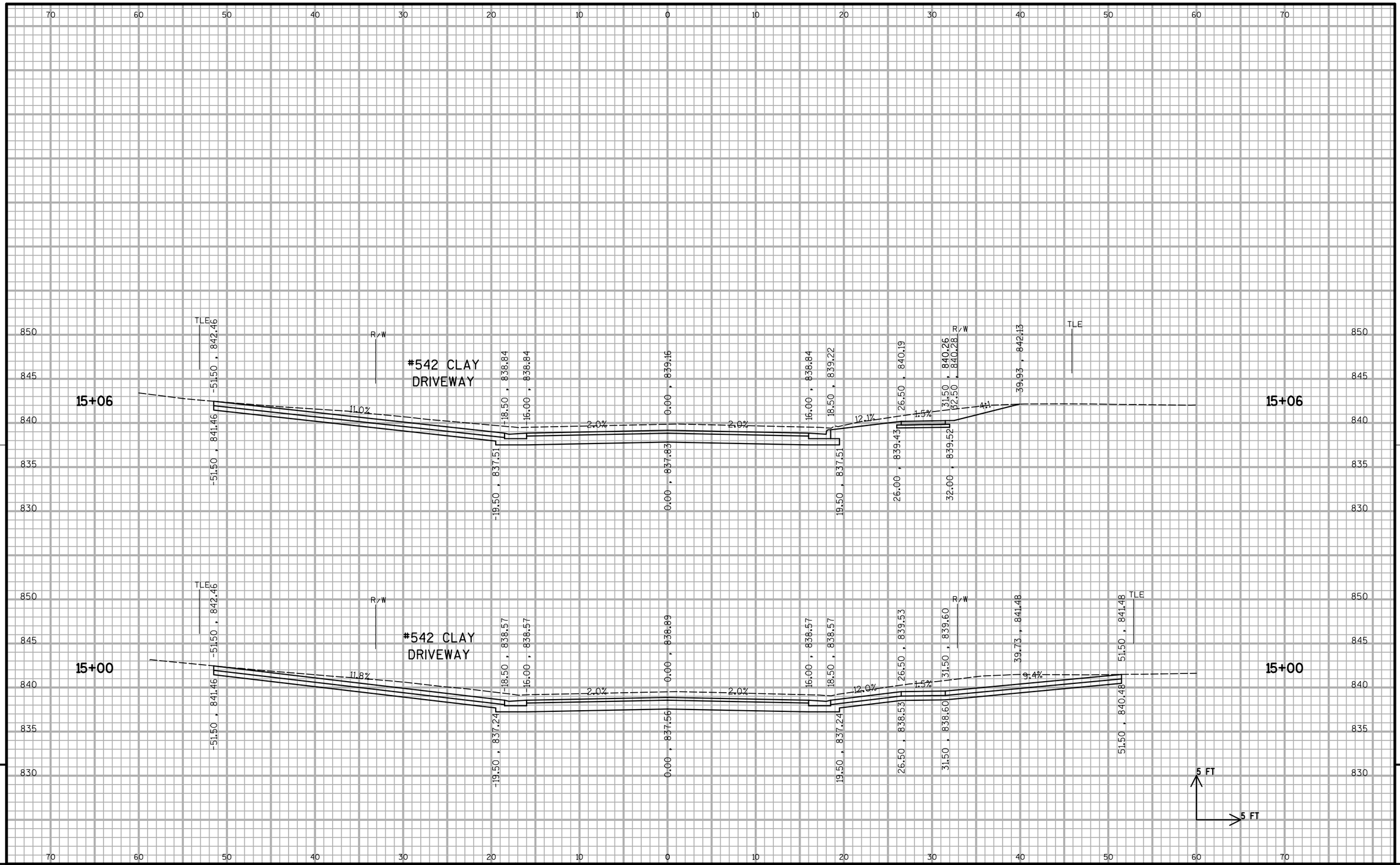
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 148	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 149	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 150	E

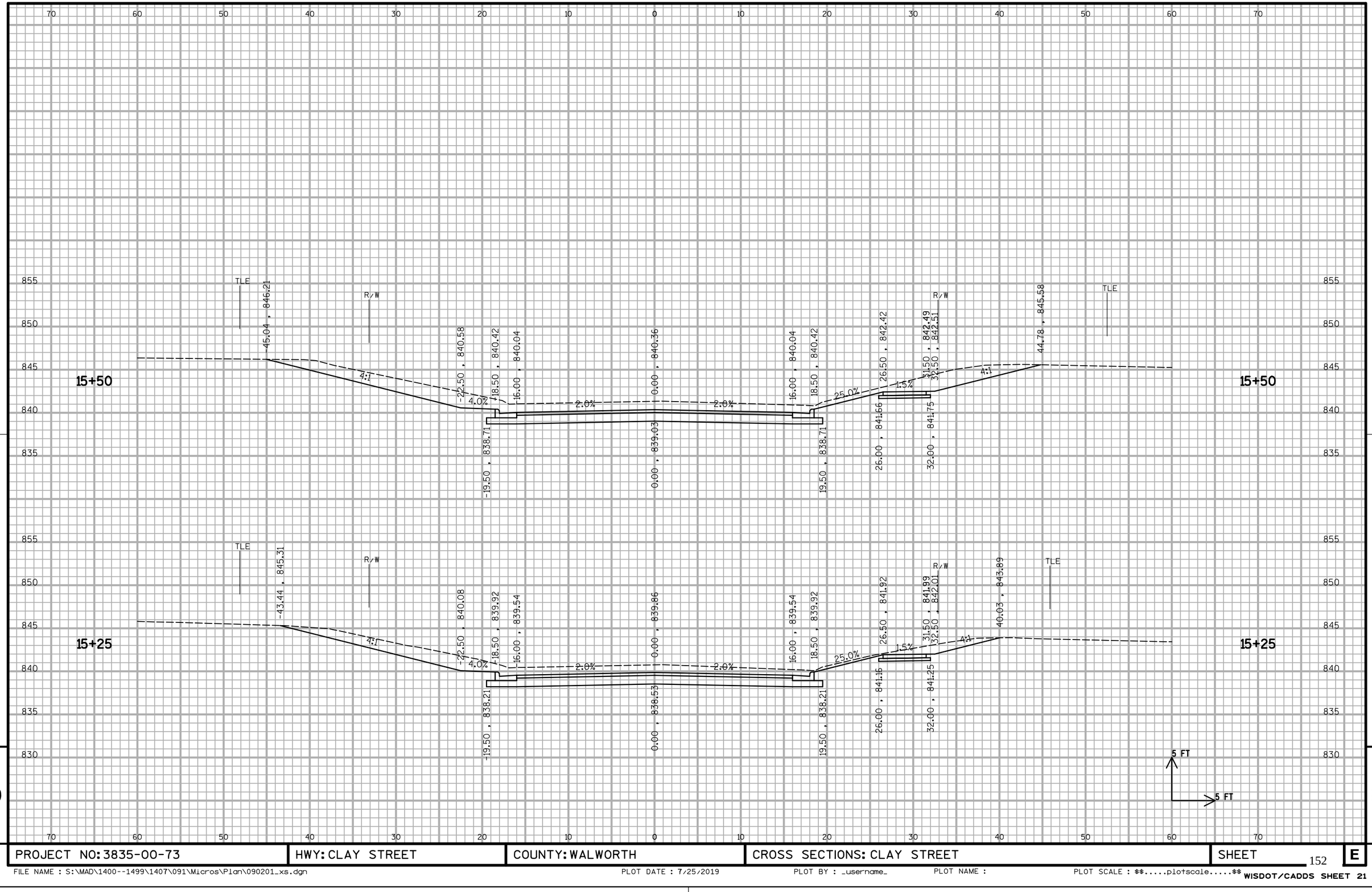


9

9

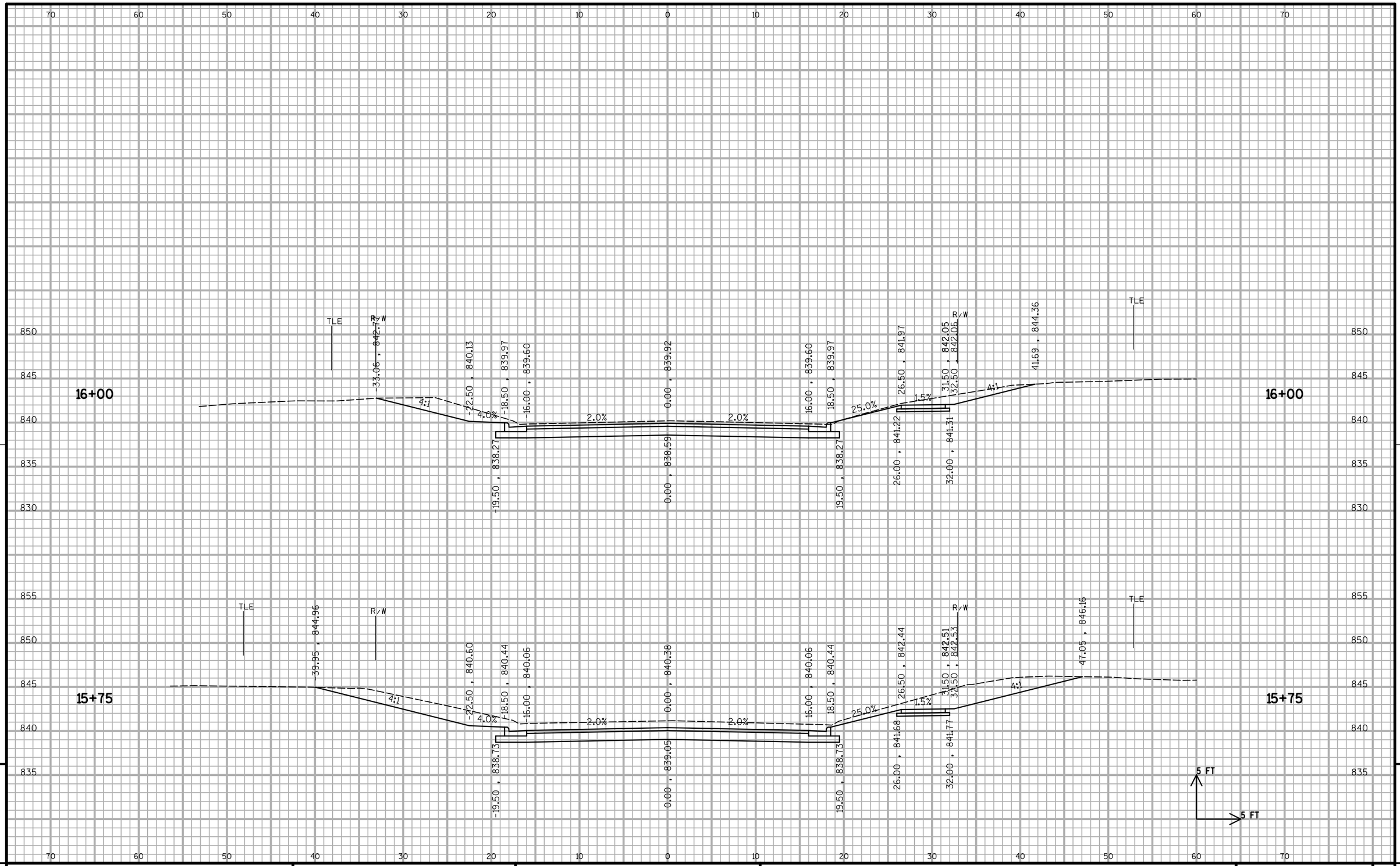
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 151	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 152	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

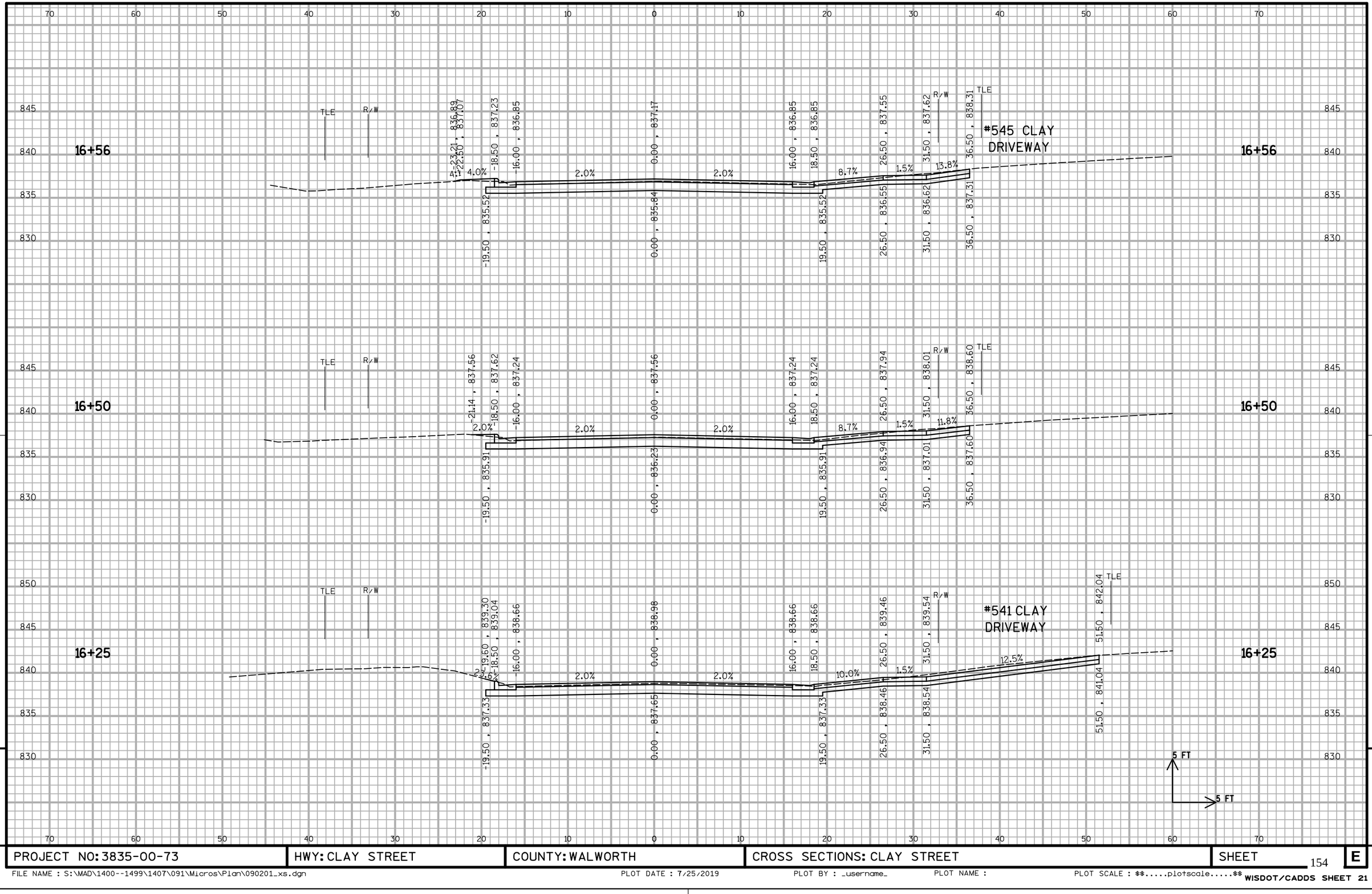


9

9

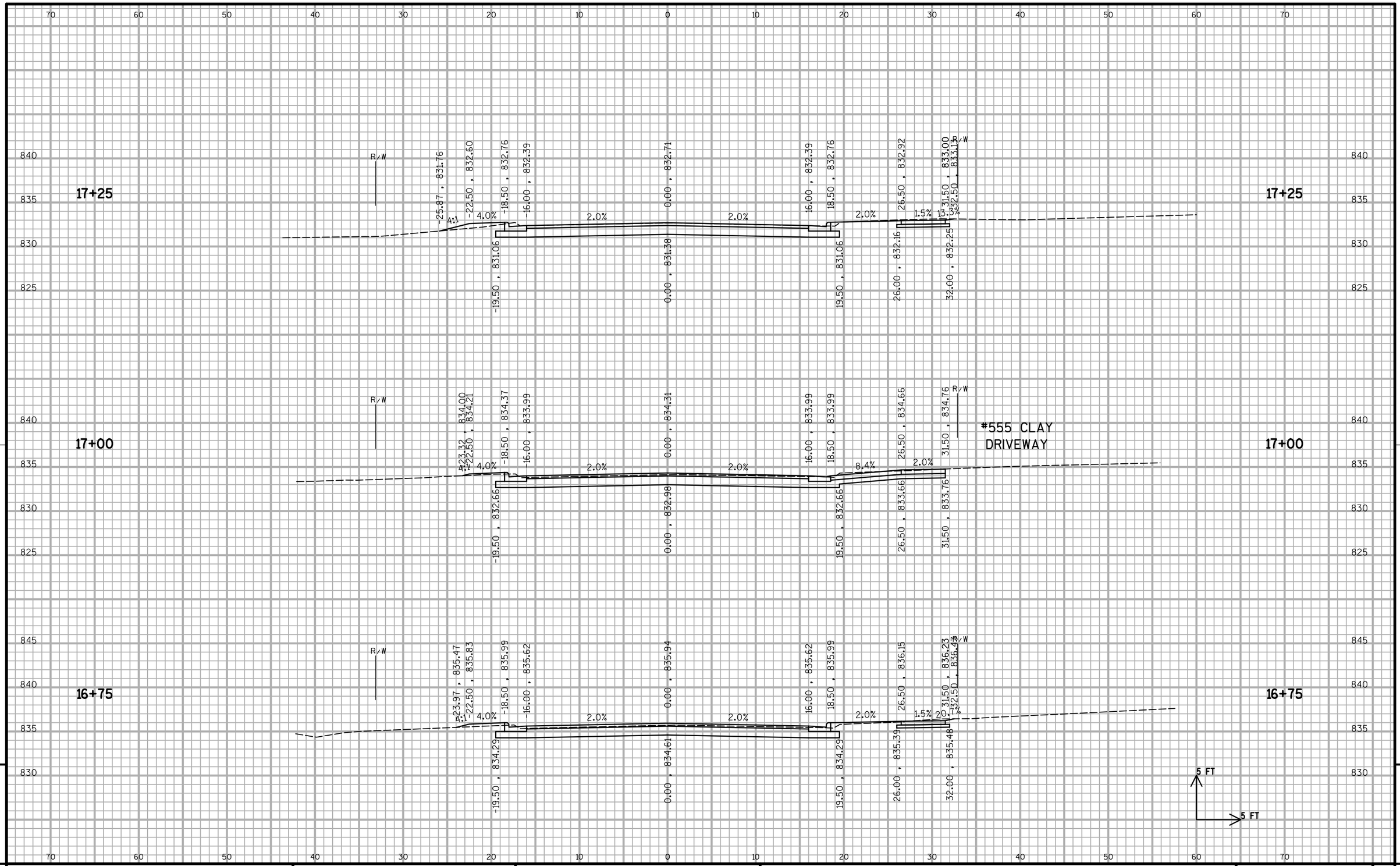
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 153	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



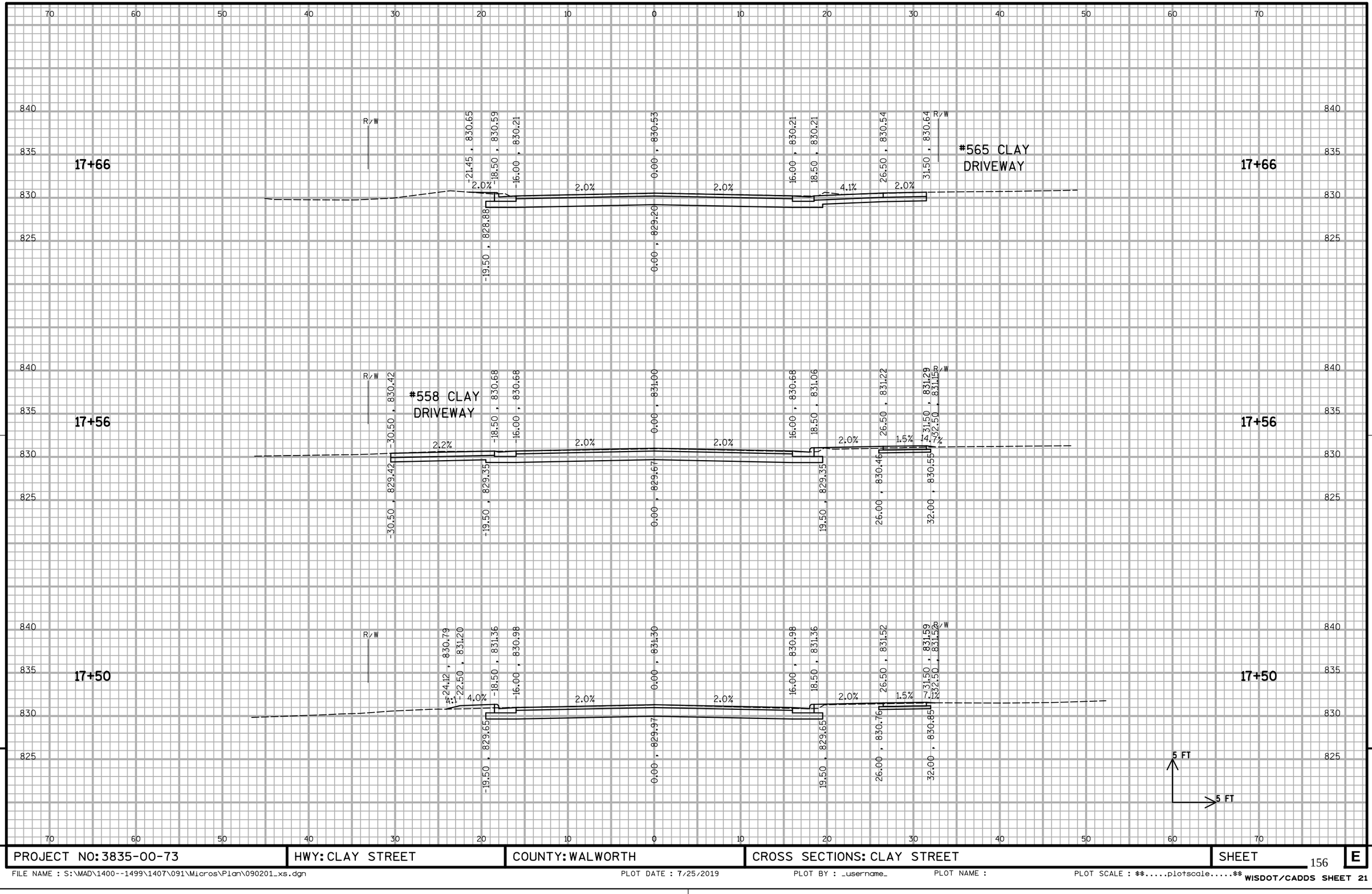
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 154	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 155	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

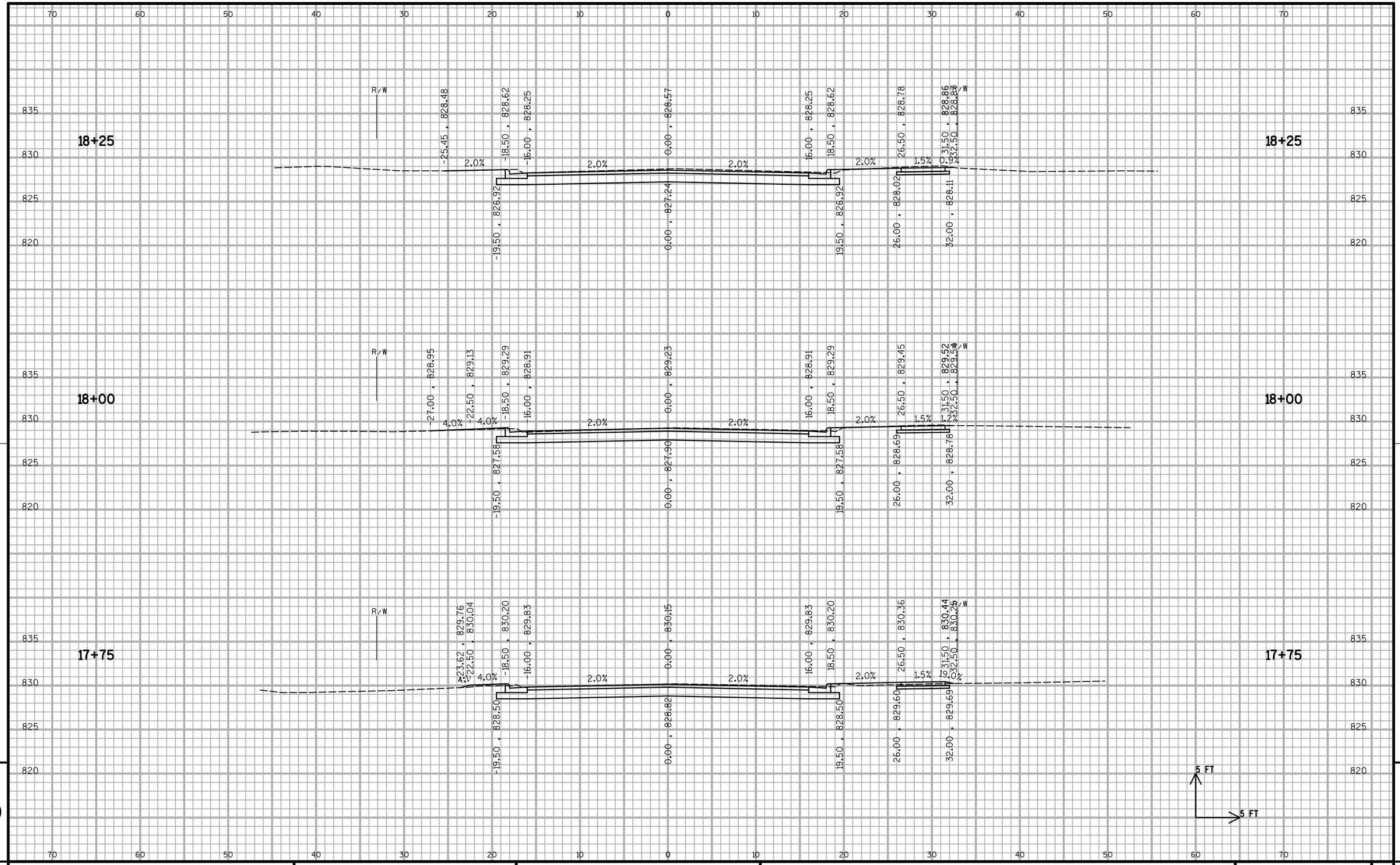


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 156	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

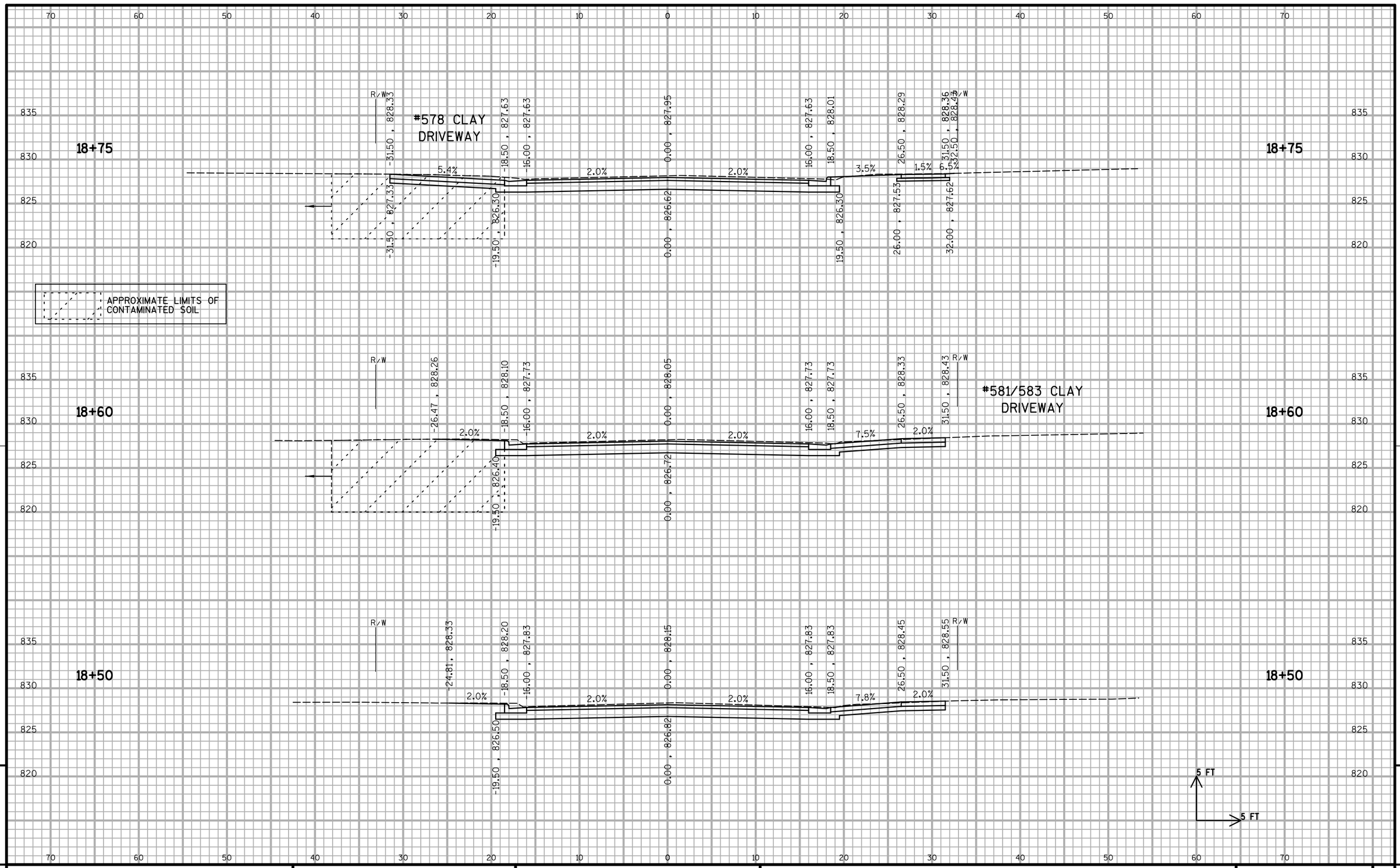


9

9

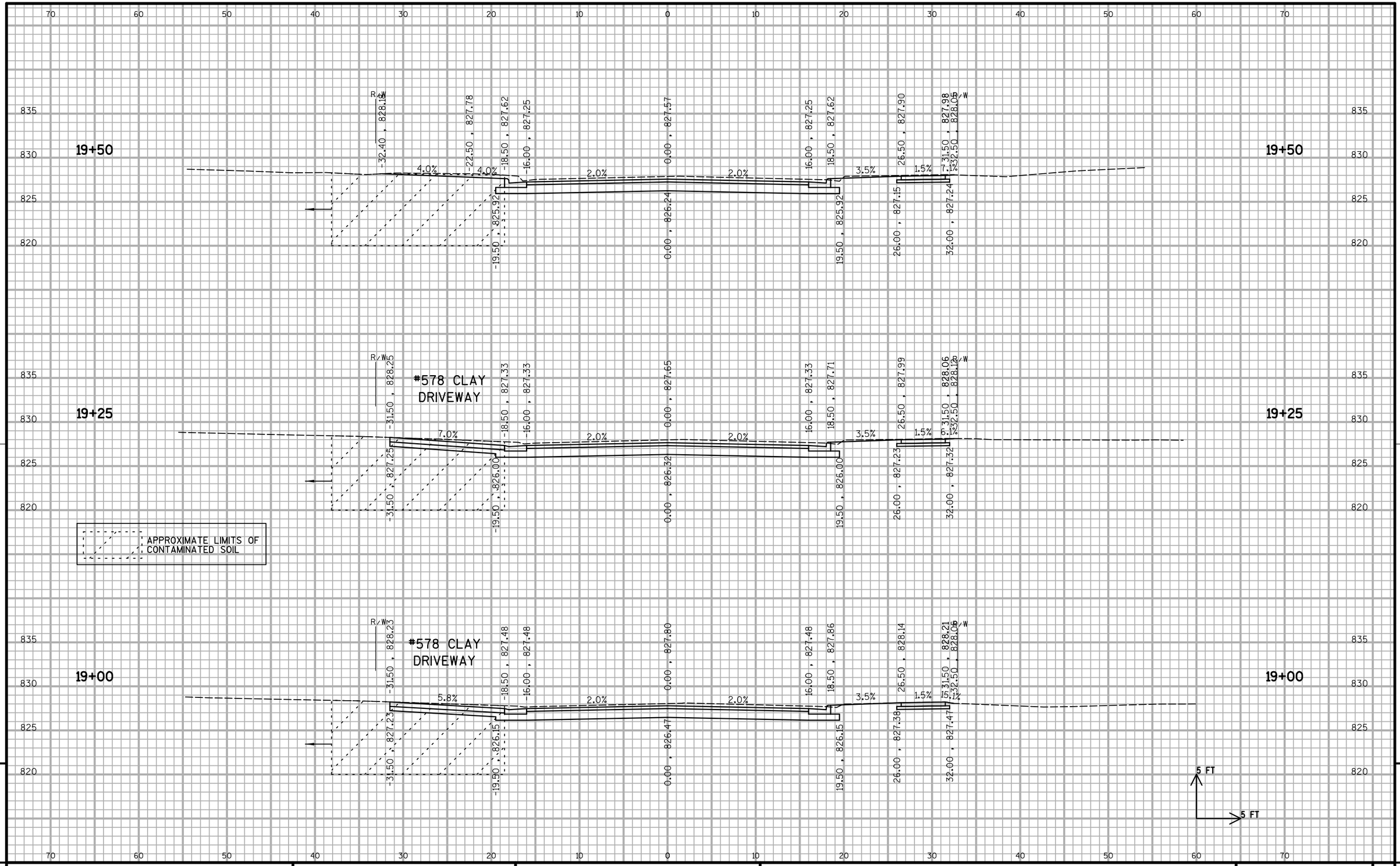
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 157	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 158	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



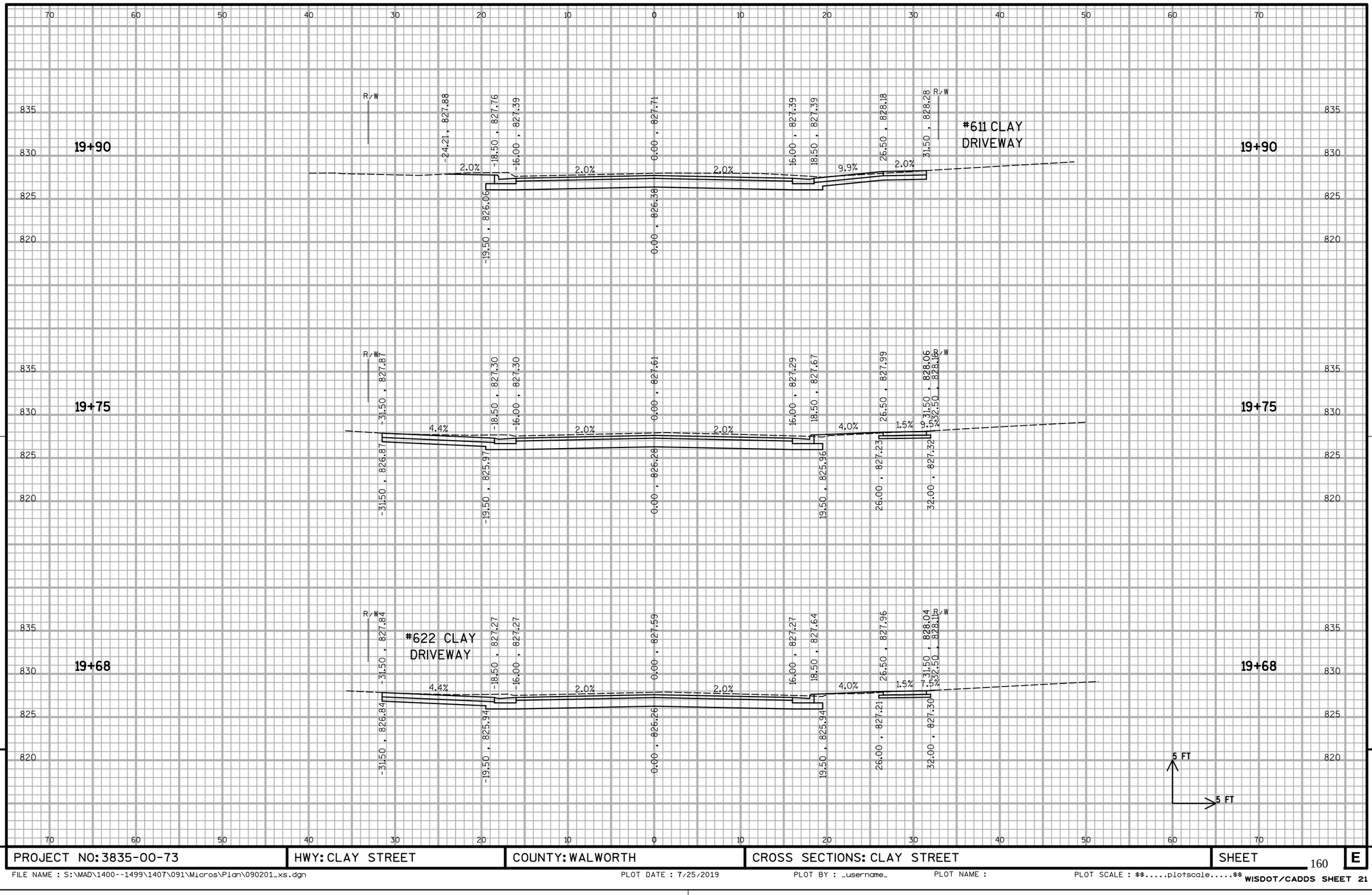
9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

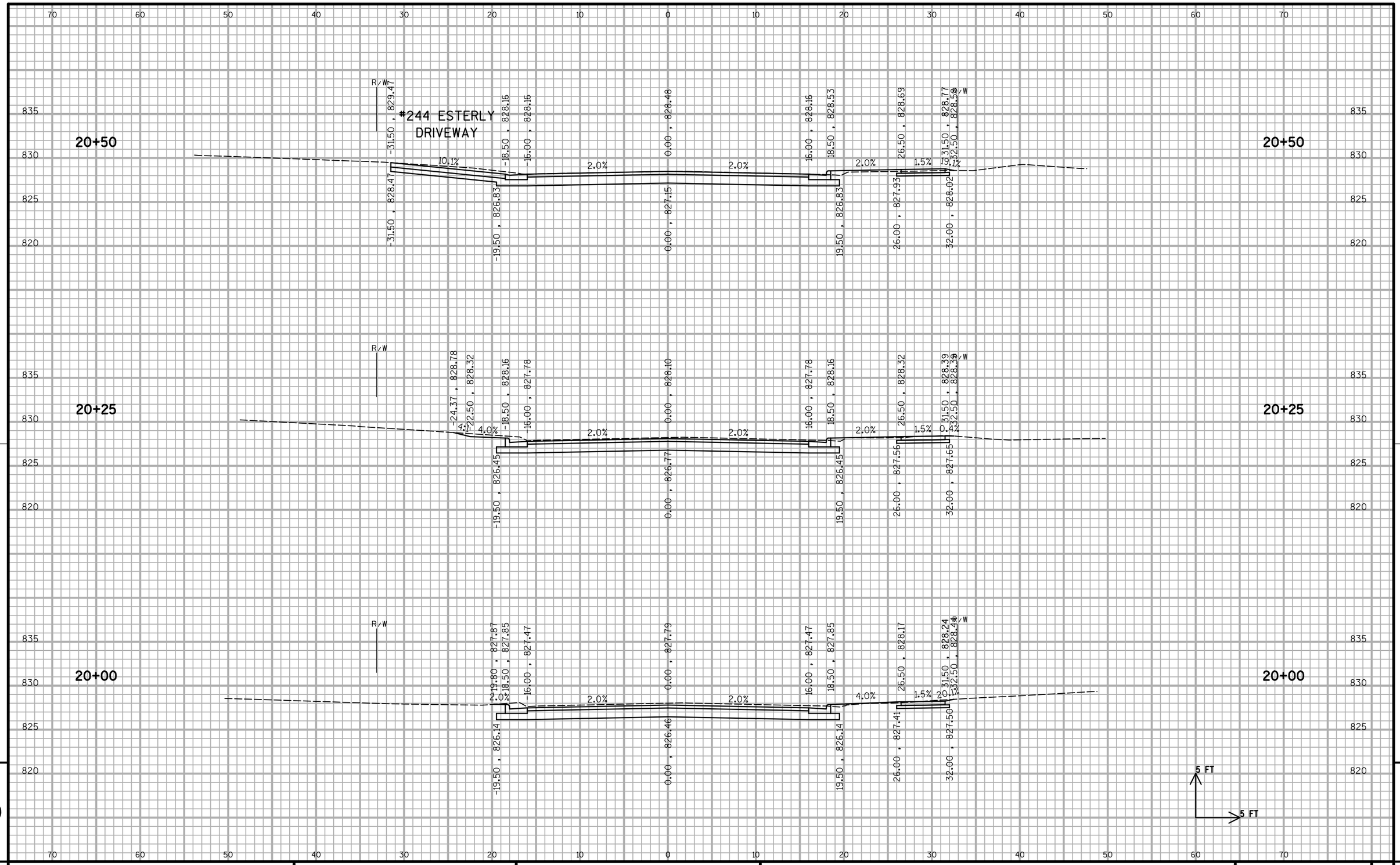


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 160	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

840 835 830 825 820

TLE

R/W

-36.61 , 832.71

21+00

-22.50 , 829.18 | -18.50 , 829.02 | -16.00 , 828.65 | 0.00 , 828.96 | 16.00 , 828.64 | 18.50 , 829.02 | 26.50 , 829.18 | 31.50 , 829.25 | 32.50 , 829.15

4:1 | 4.0% | 2.0% | 2.0% | 2.0% | 1.5% | 10.9%

-19.50 , 827.32 | 0.00 , 827.63 | 19.50 , 827.31 | 26.00 , 828.42 | 32.00 , 828.51

21+00

TLE

R/W

-33.38 , 831.87

20+84

-22.50 , 829.08 | -18.50 , 828.92 | -16.00 , 828.55 | 0.00 , 828.87 | 16.00 , 828.55 | 18.50 , 828.55 | 26.50 , 828.81 | 31.50 , 828.91 | R/W

4:1 | 4.0% | 2.0% | 2.0% | 3.3% | 2.0%

-19.50 , 827.22 | 0.00 , 827.54

#637 CLAY
DRIVEWAY

20+84

TLE

R/W

-30.91 , 831.10

20+75

-22.50 , 829.00 | -18.50 , 828.84 | -16.00 , 828.47 | 0.00 , 828.79 | 16.00 , 828.47 | 18.50 , 828.47 | 26.50 , 828.55 | 31.50 , 828.65 | R/W

4:1 | 4.0% | 2.0% | 2.0% | 1.0% | 2.0%

-19.50 , 827.14 | 0.00 , 827.46

20+75

5 FT

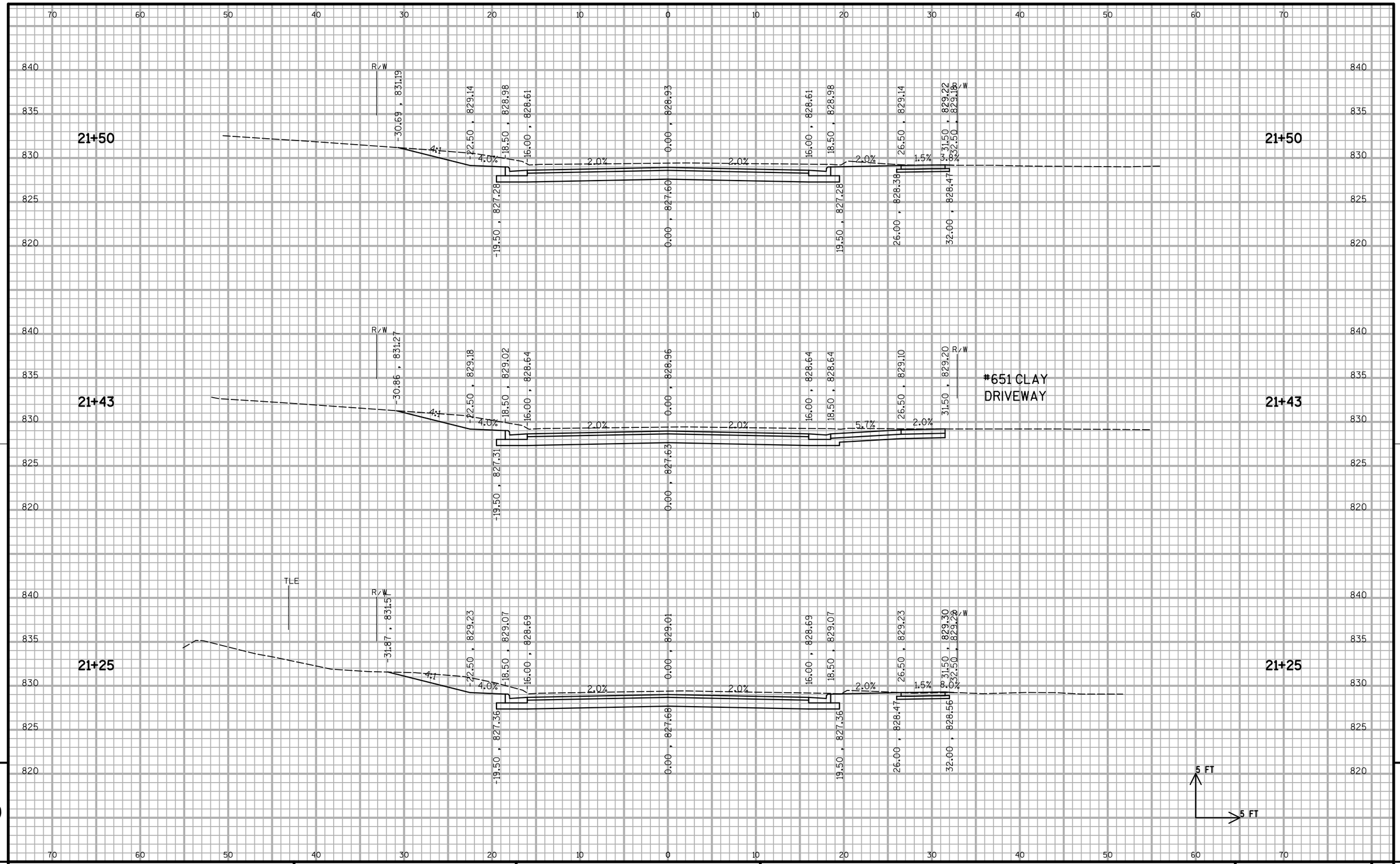
5 FT

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

9

9

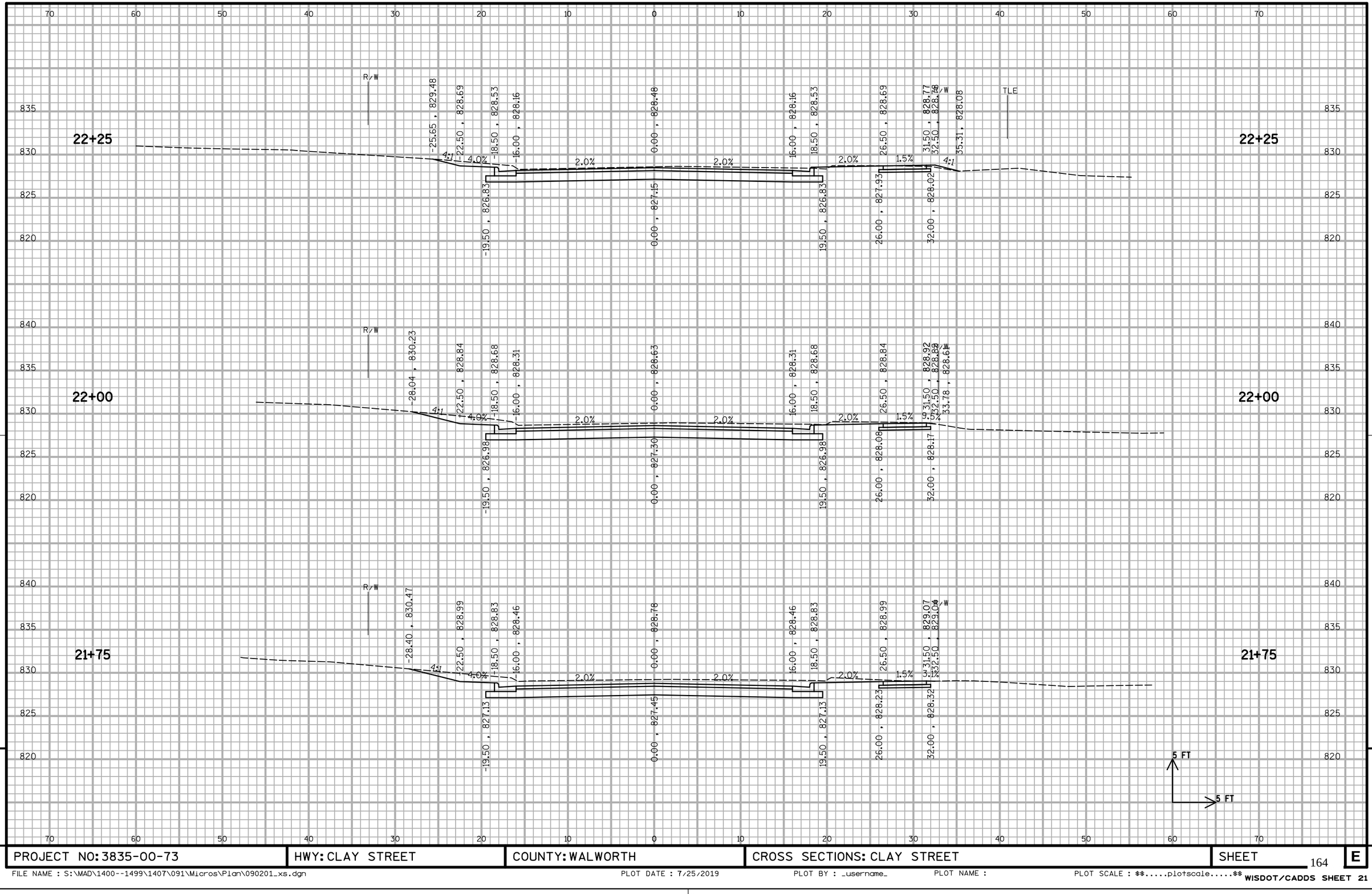
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 162	E



9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 163	E

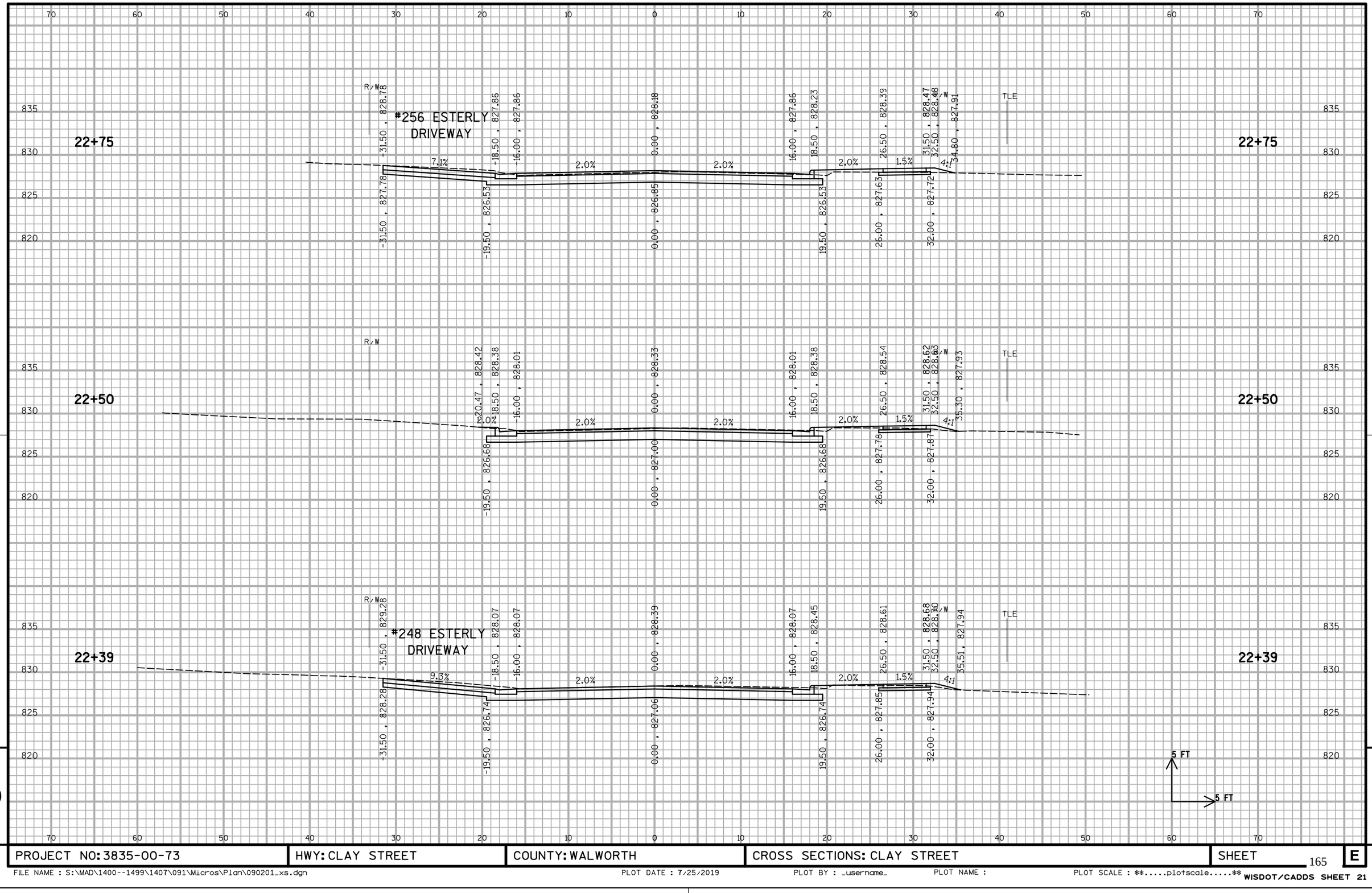


9

9

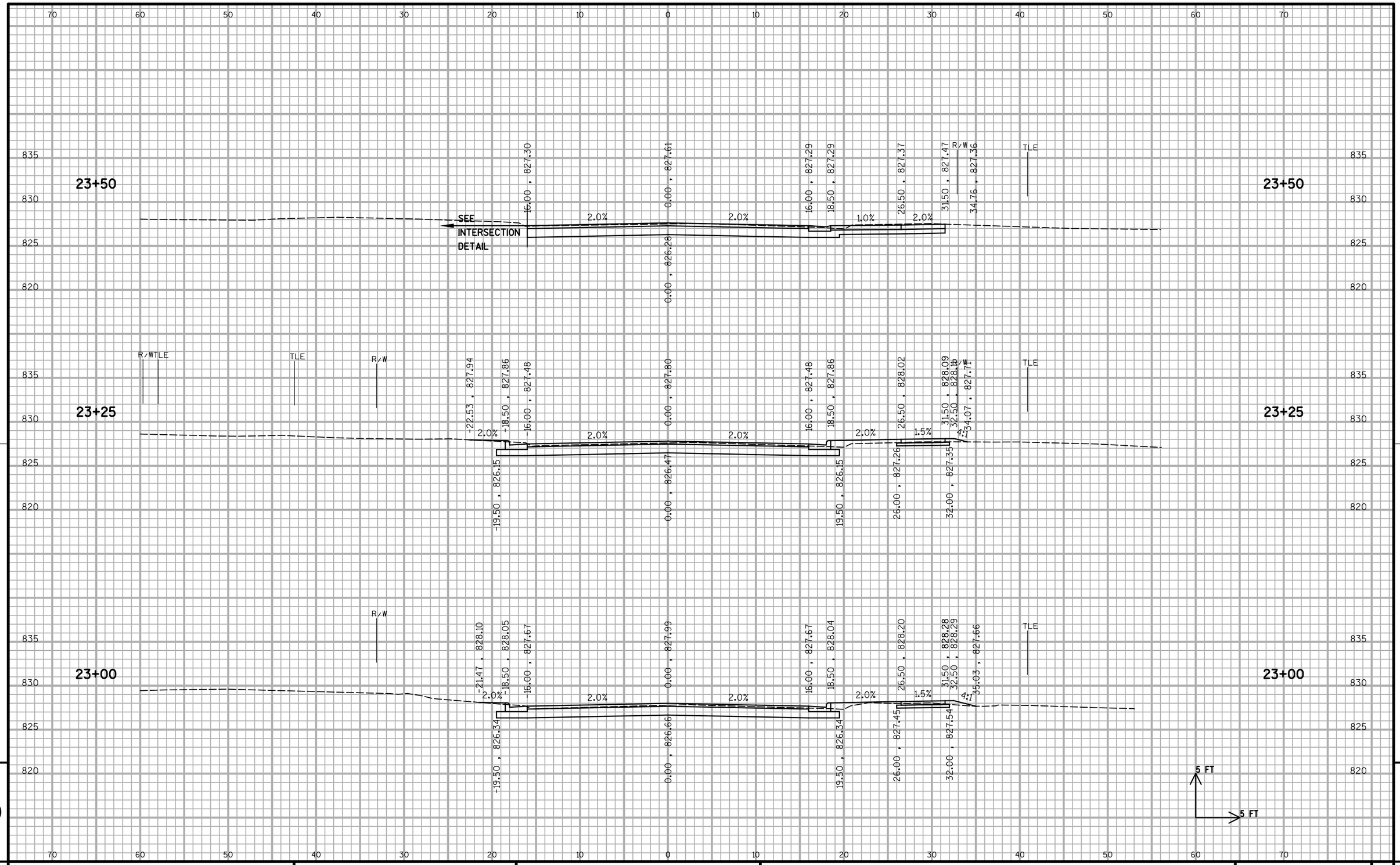
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



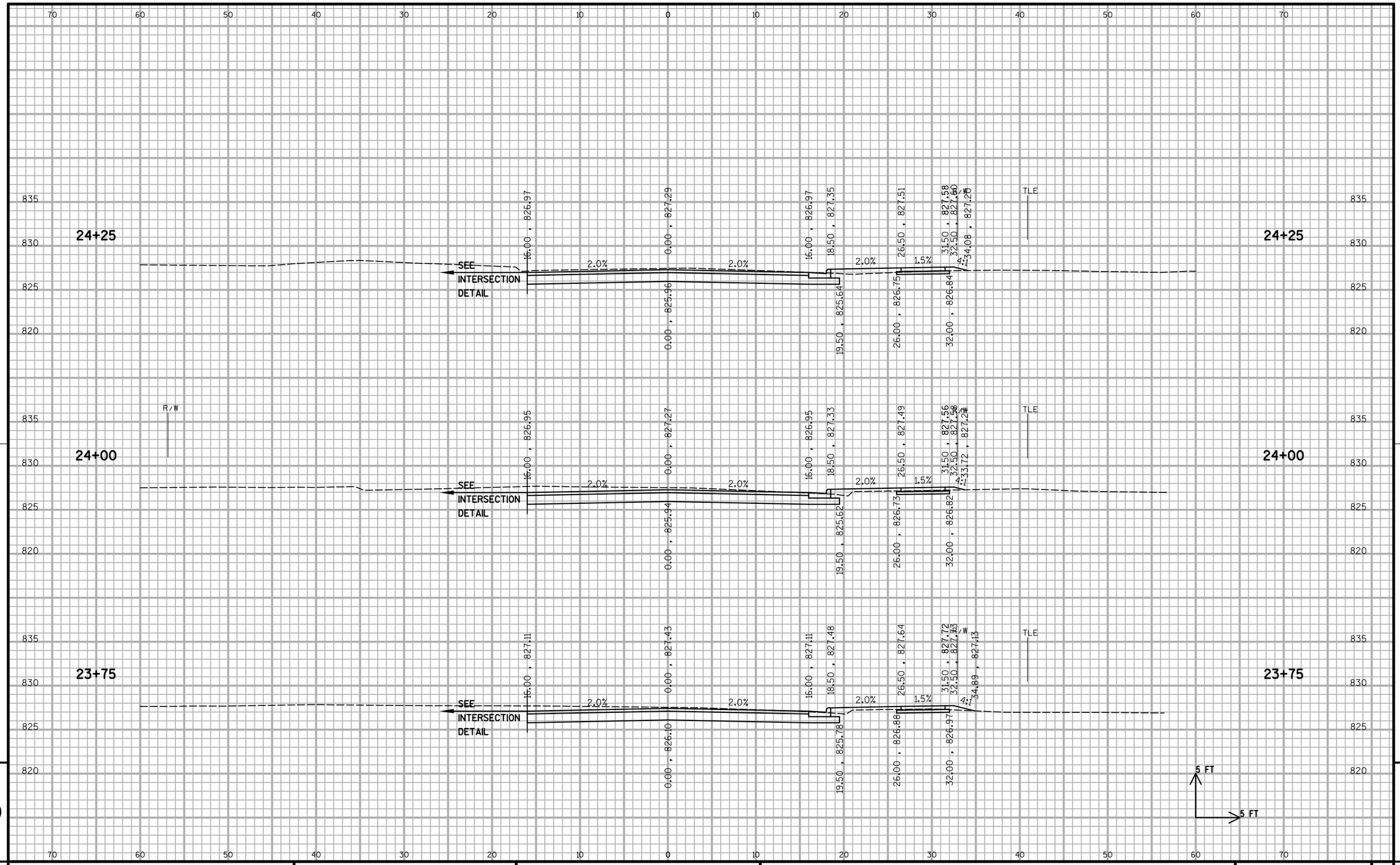
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

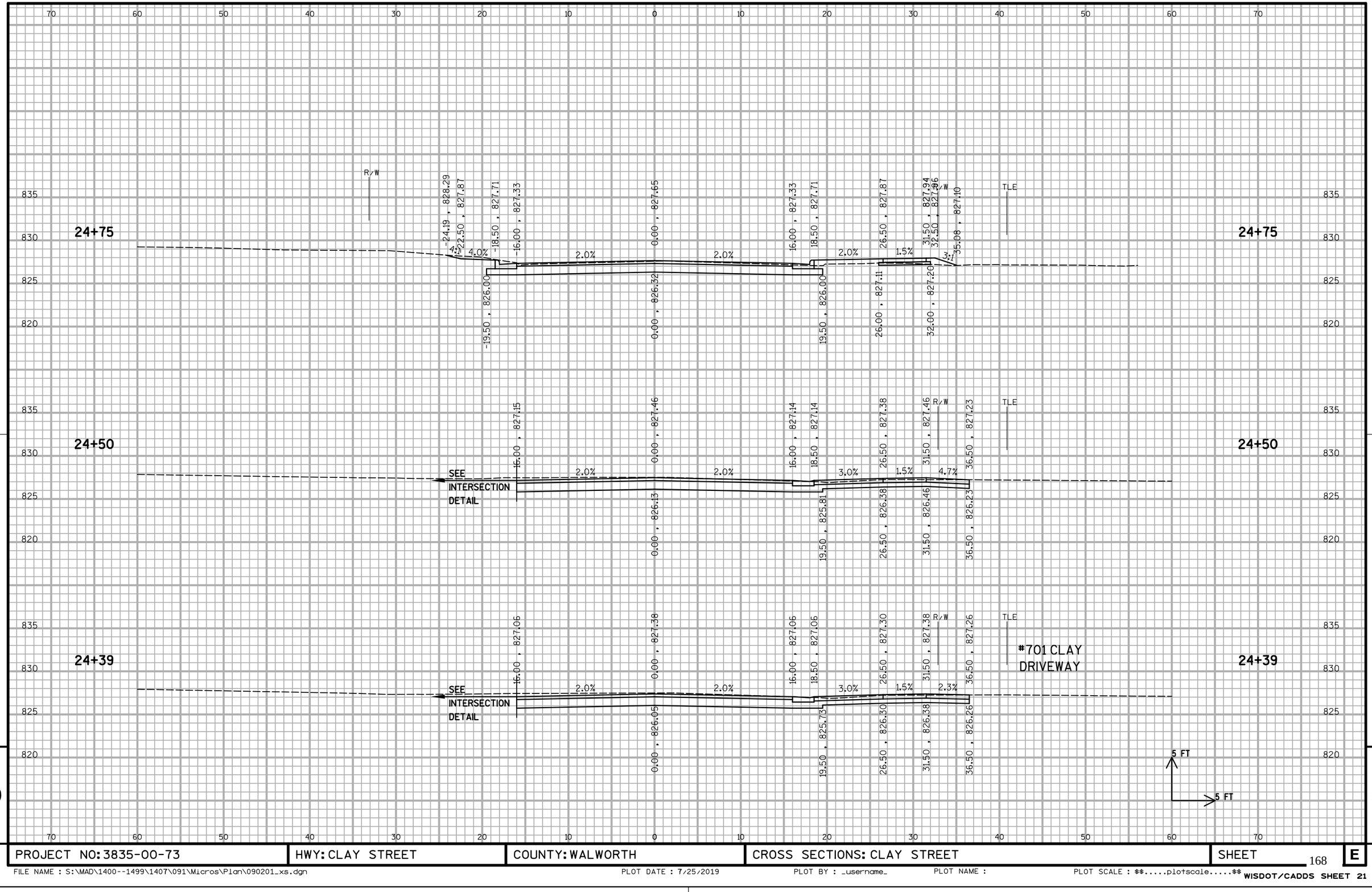


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

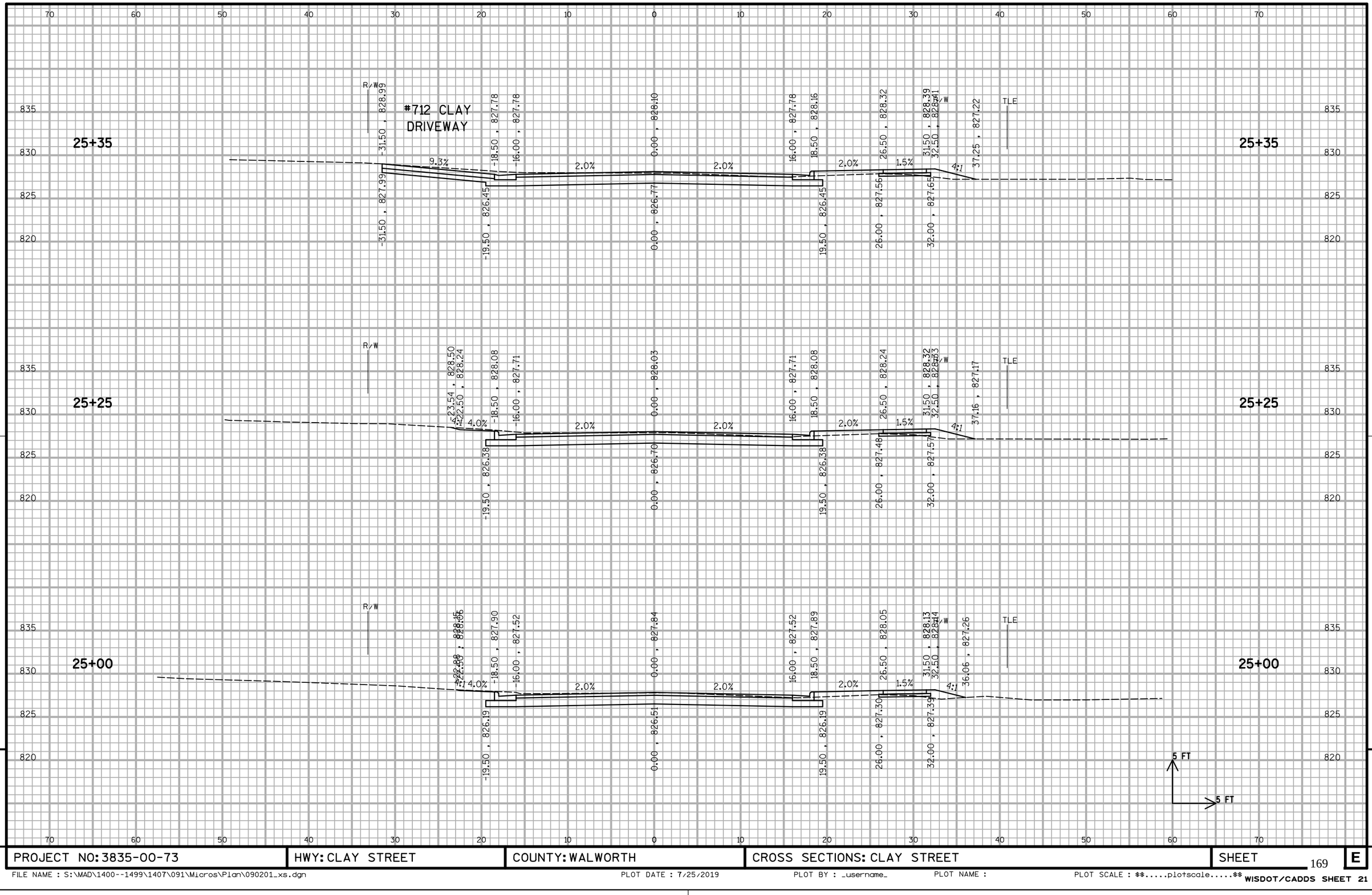
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 168	E

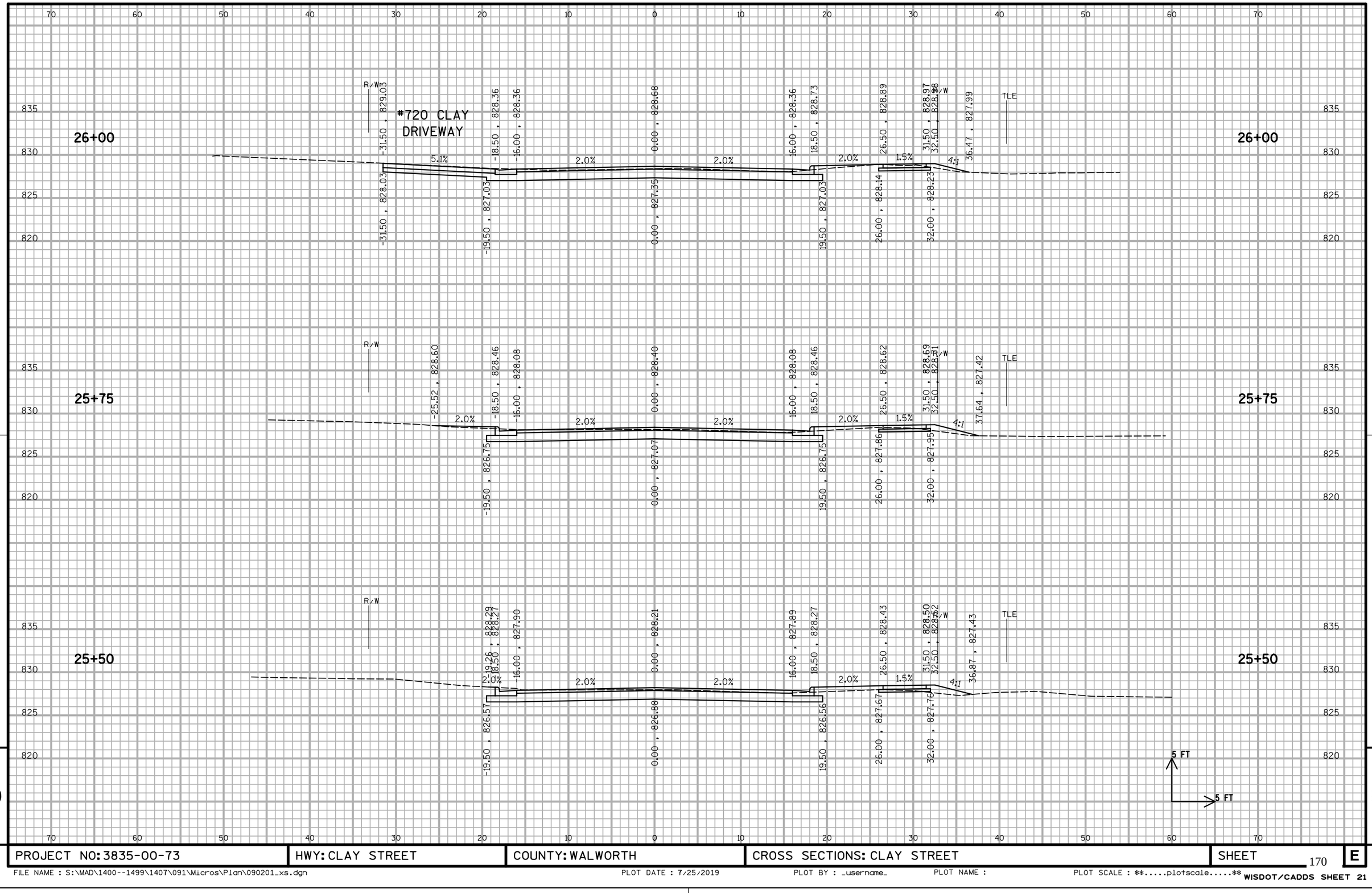


9

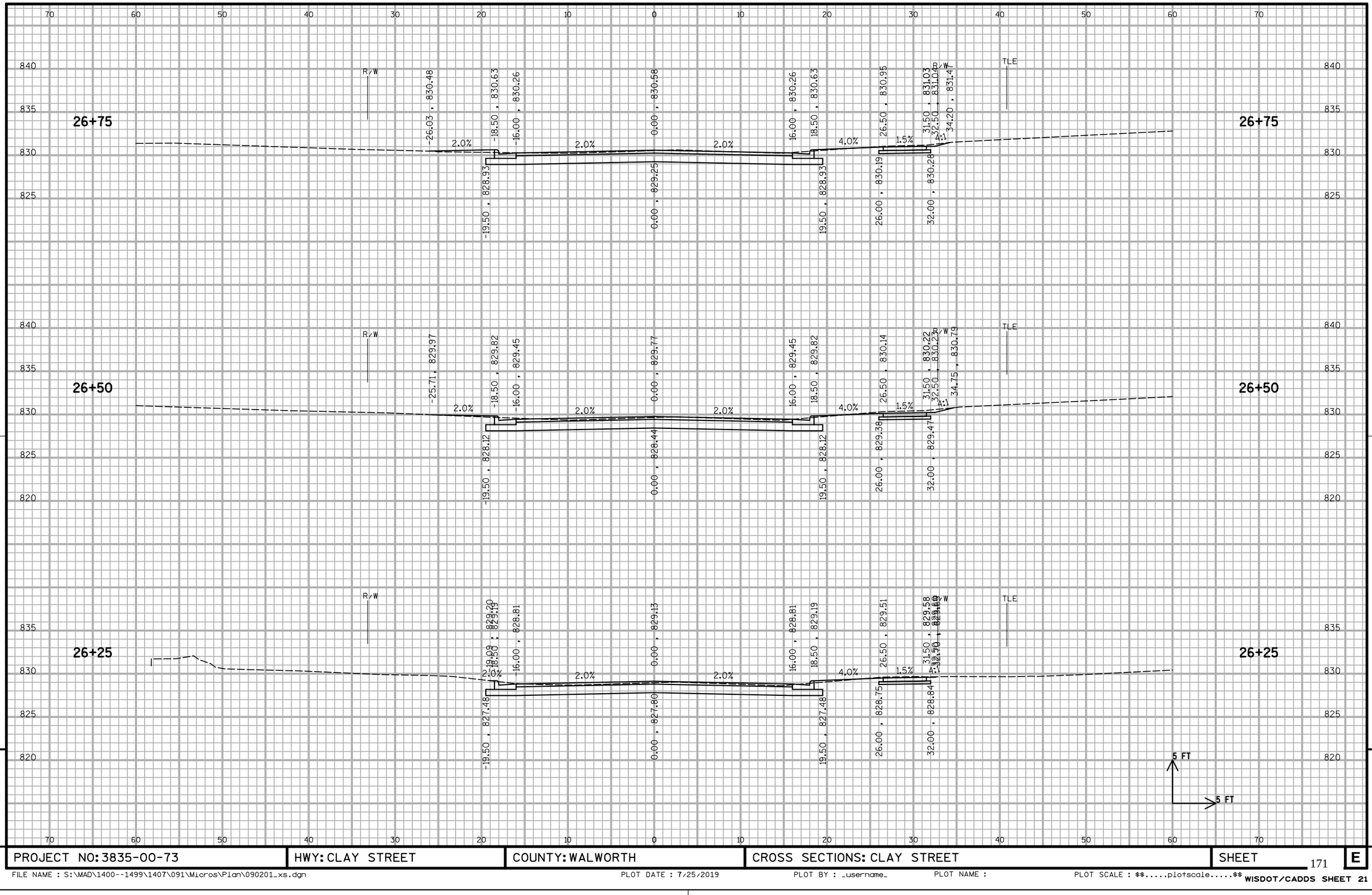
9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 170	E

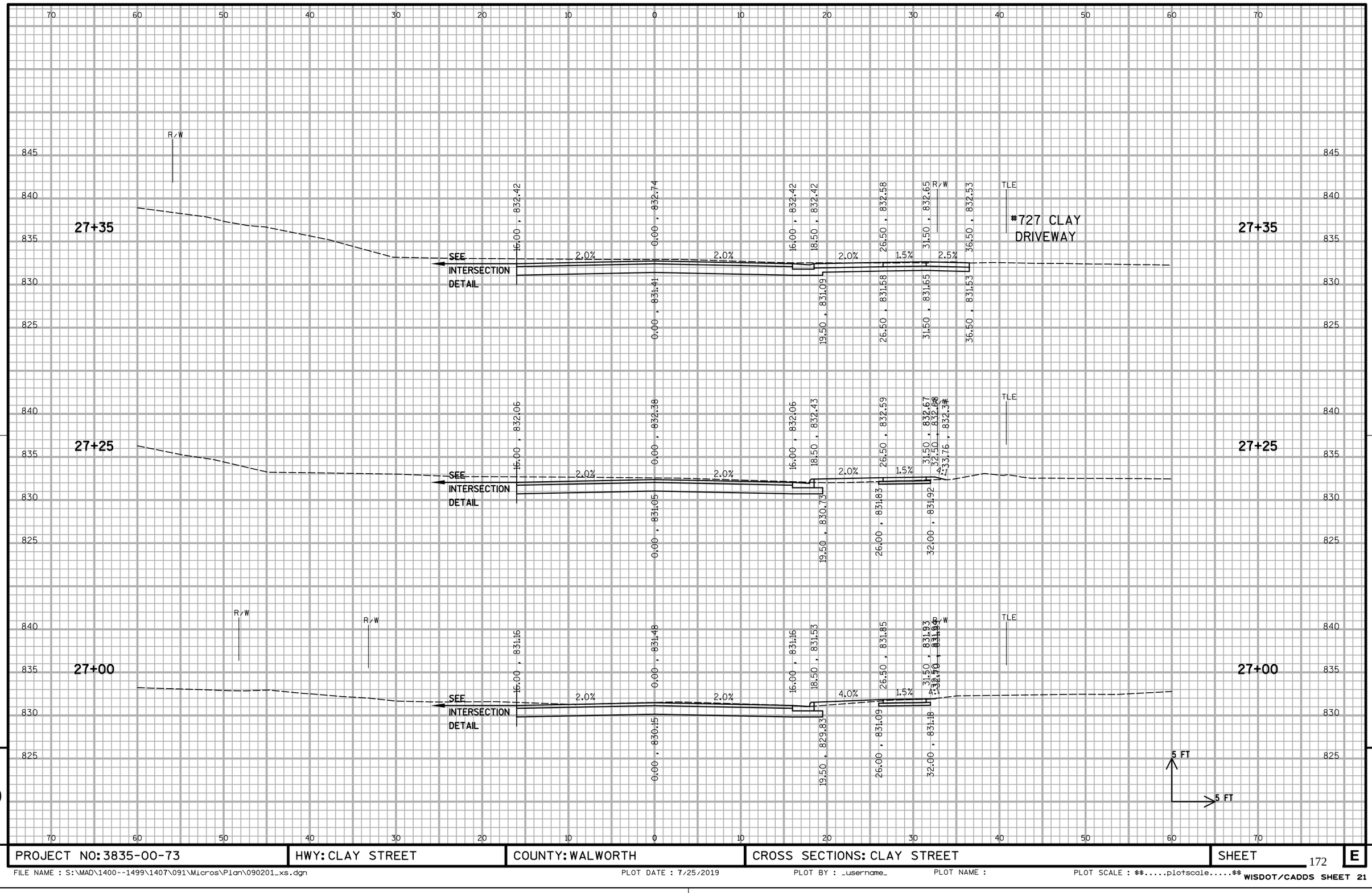


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

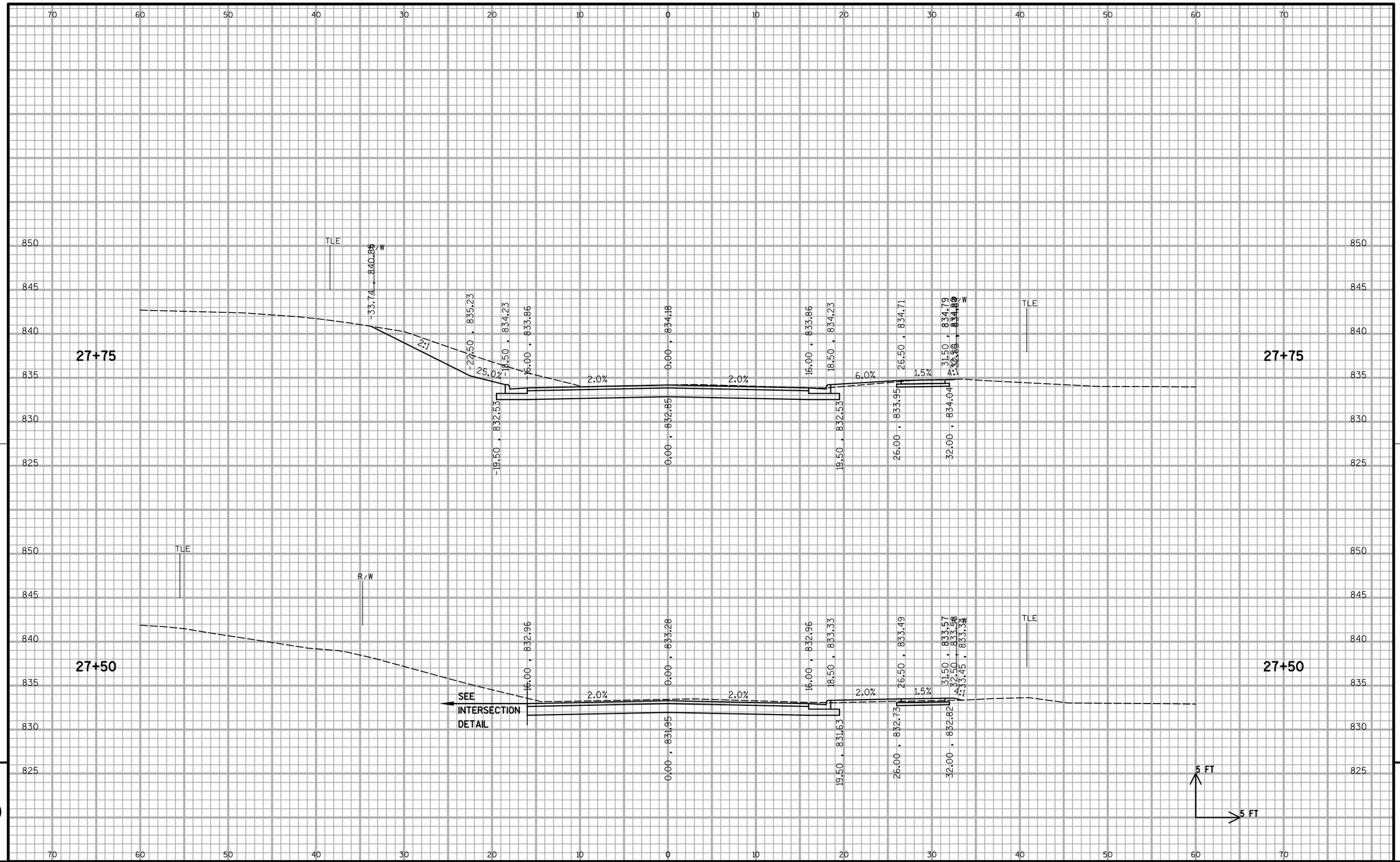
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 172	E

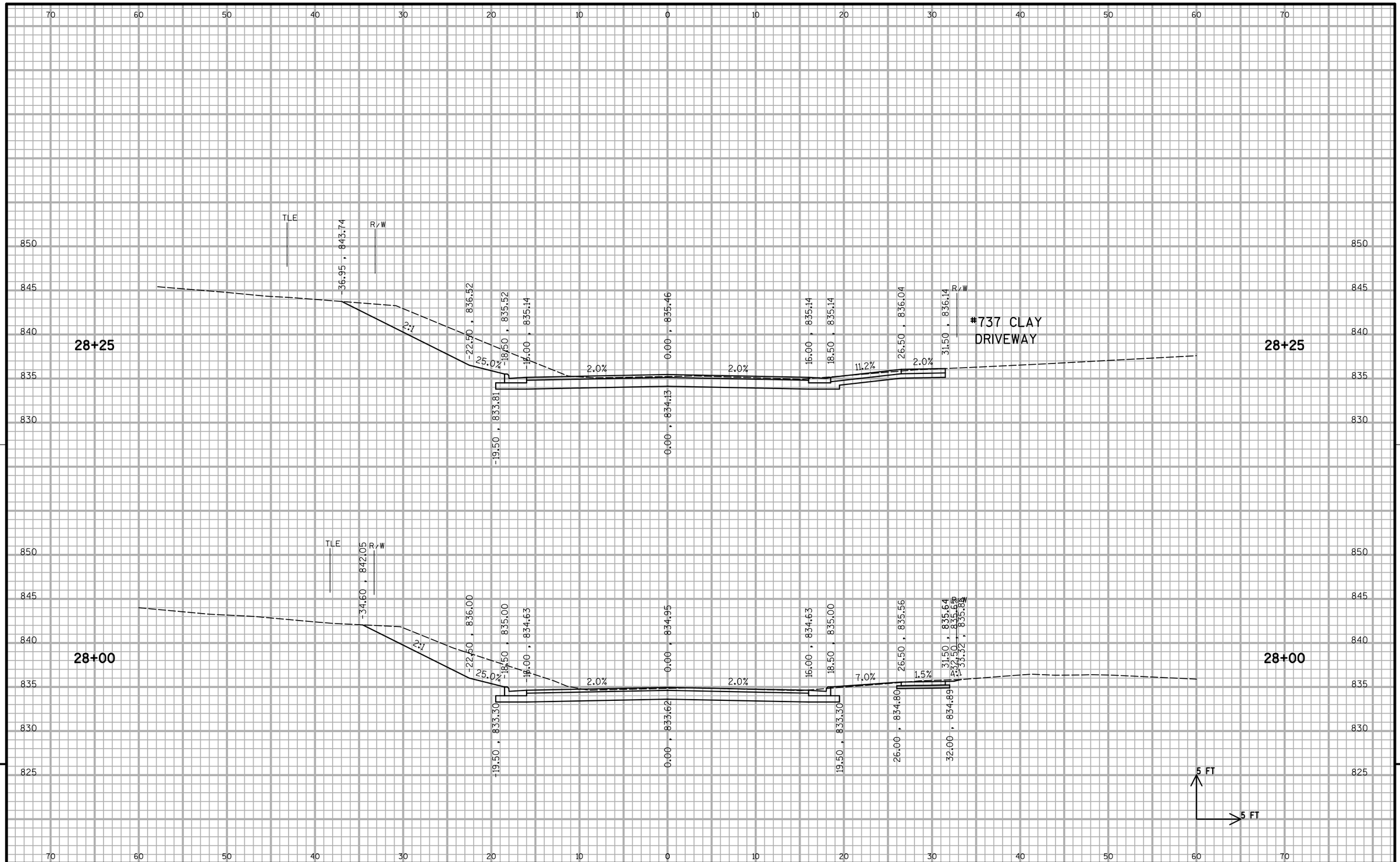


9

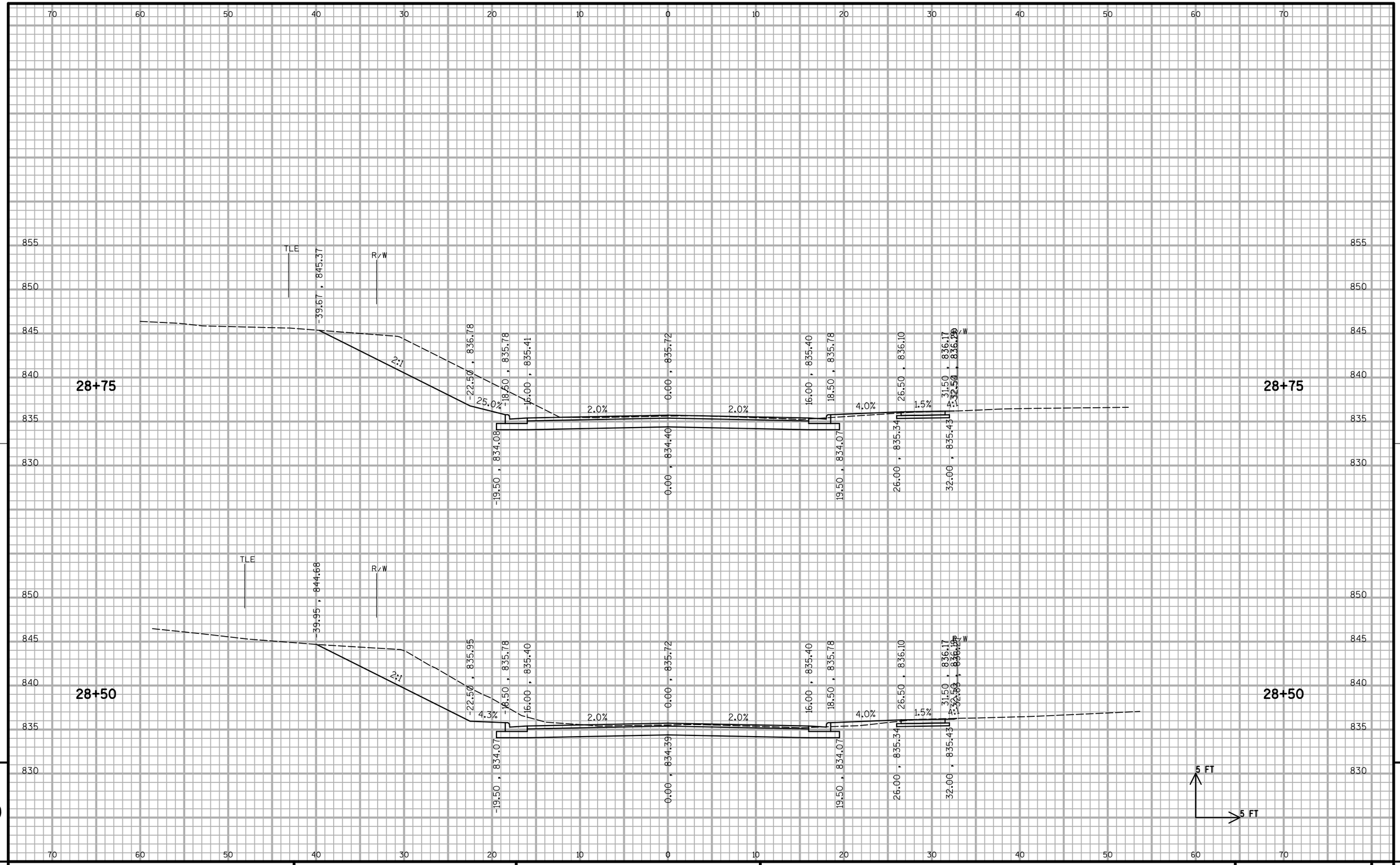
9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 173	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

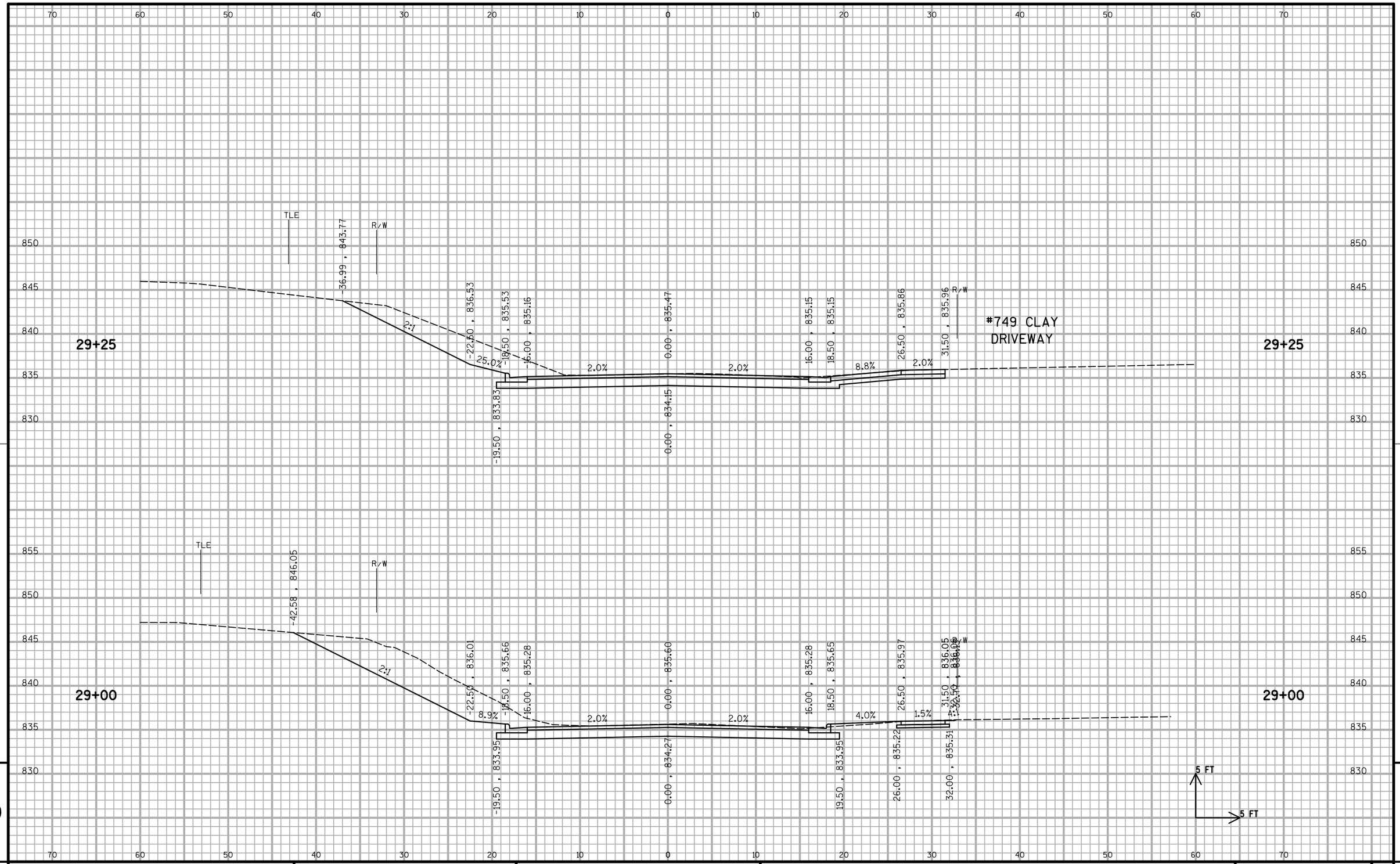


PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 174	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

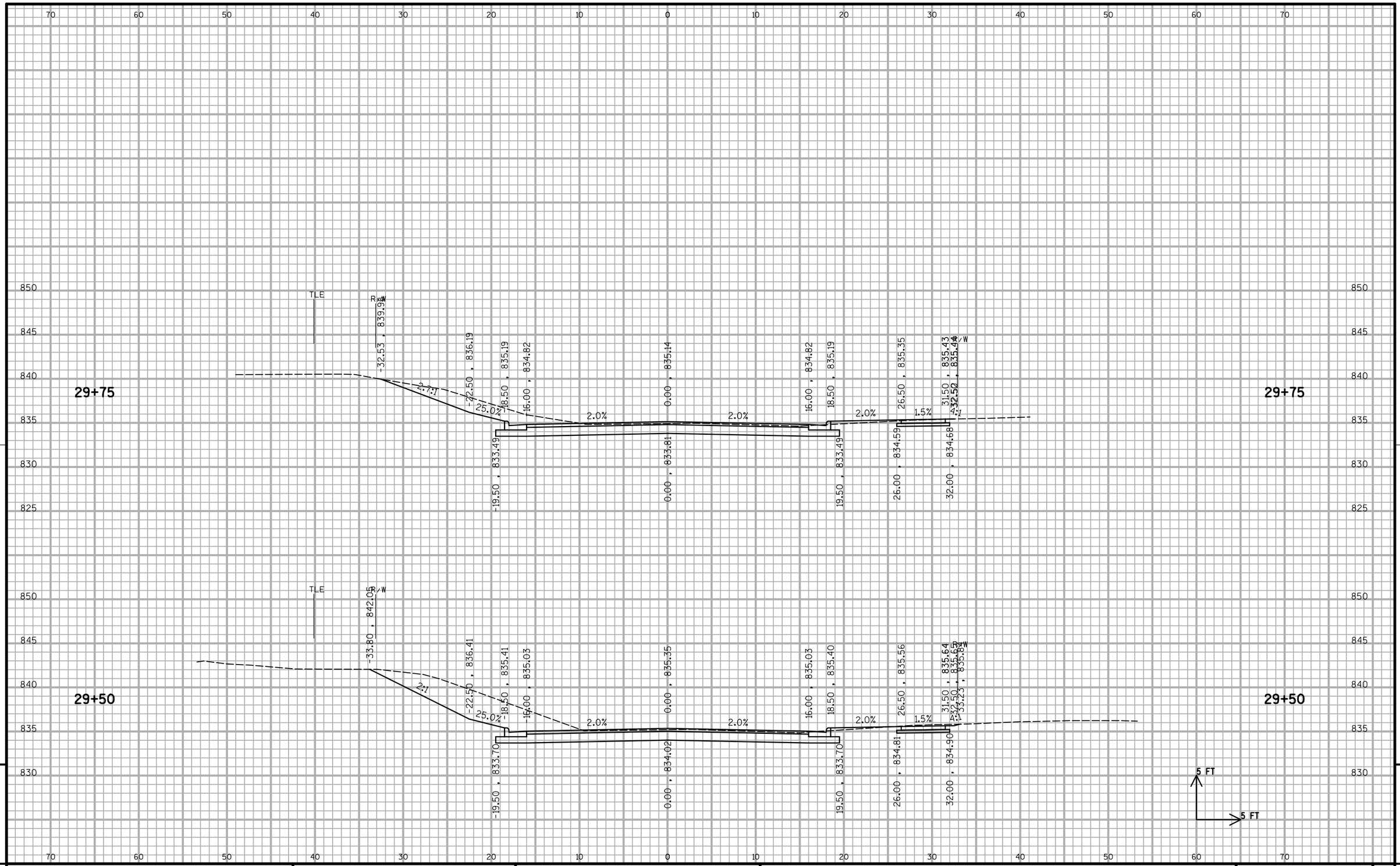


9

9

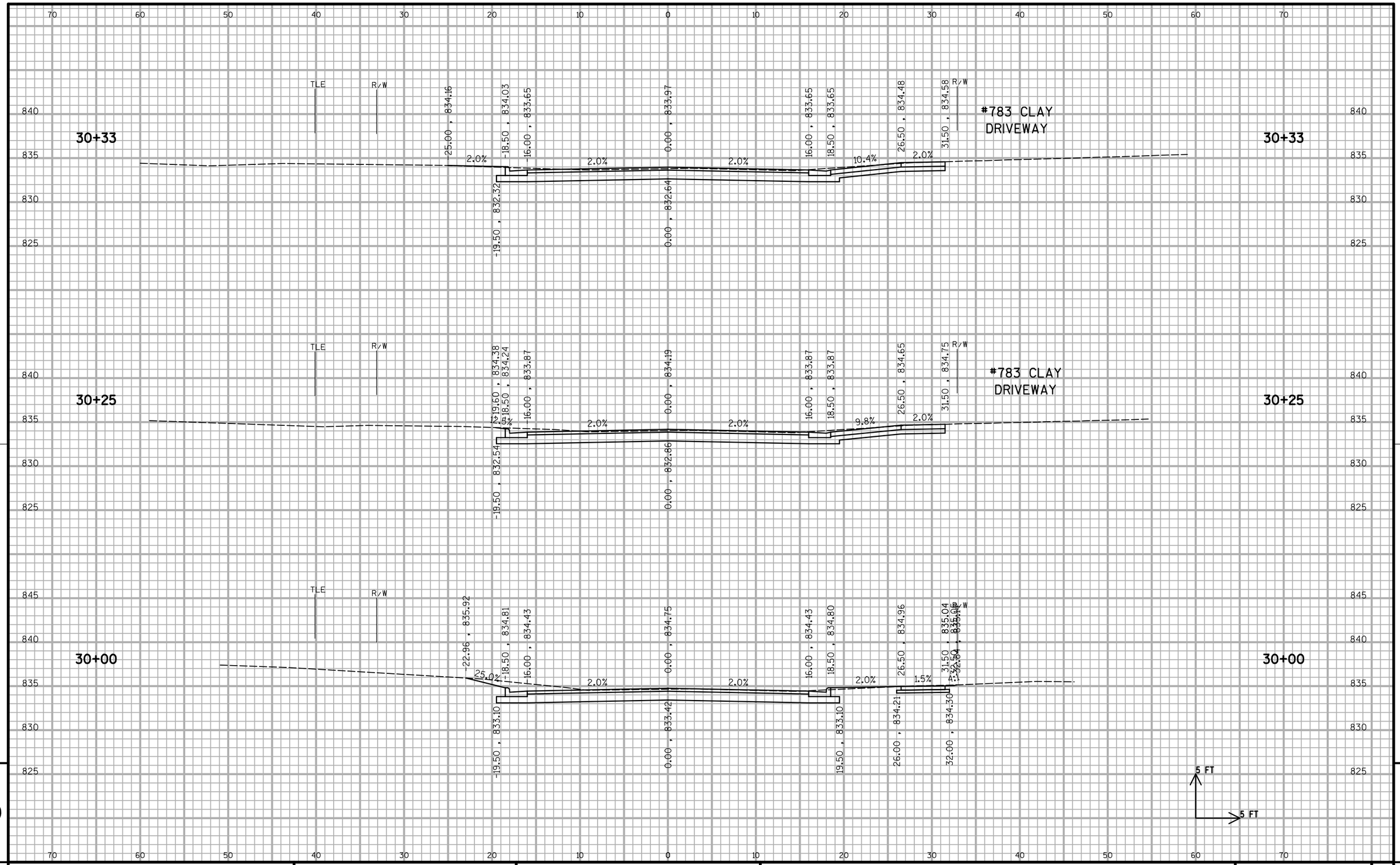
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 176	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 177	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

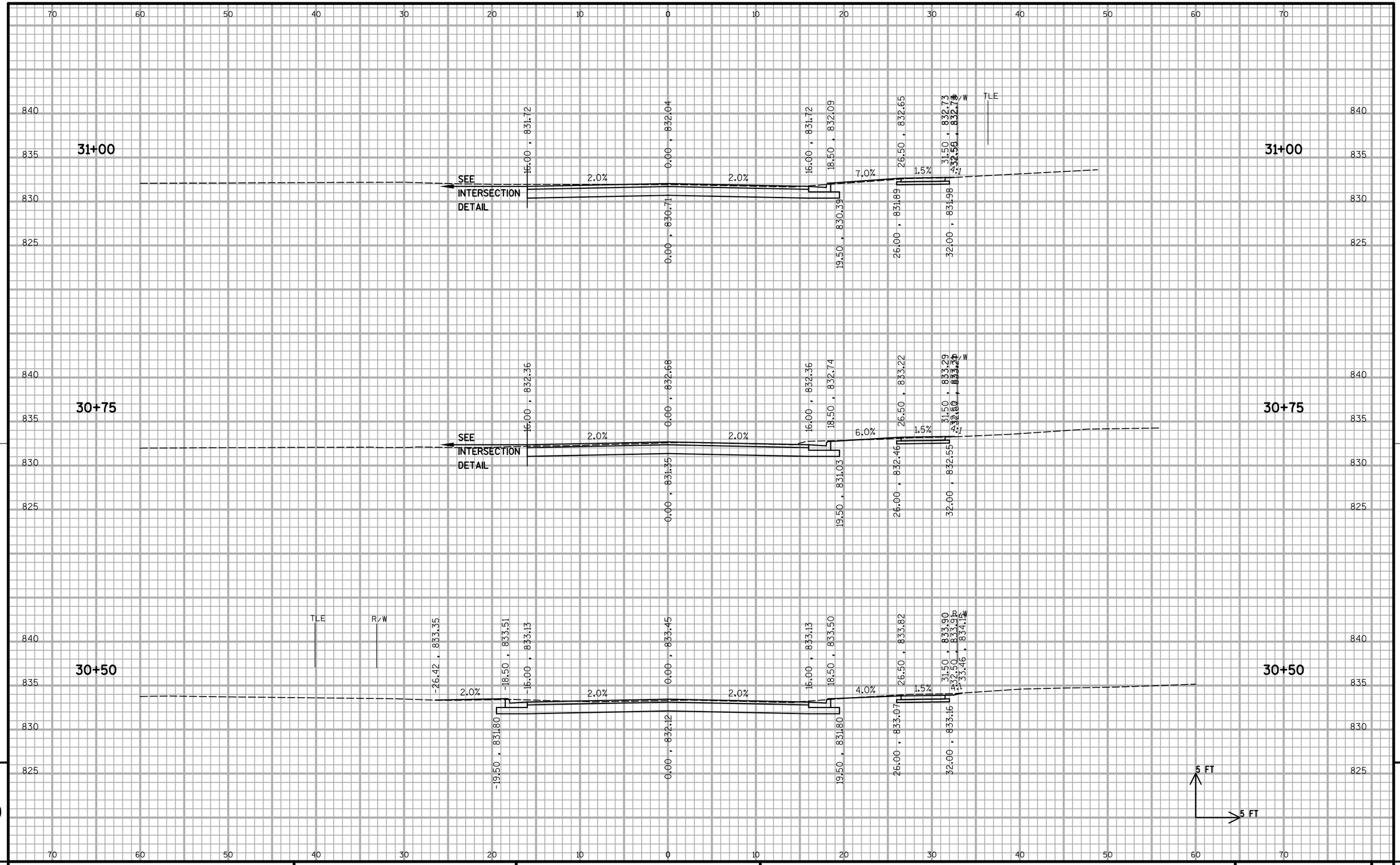


9

9

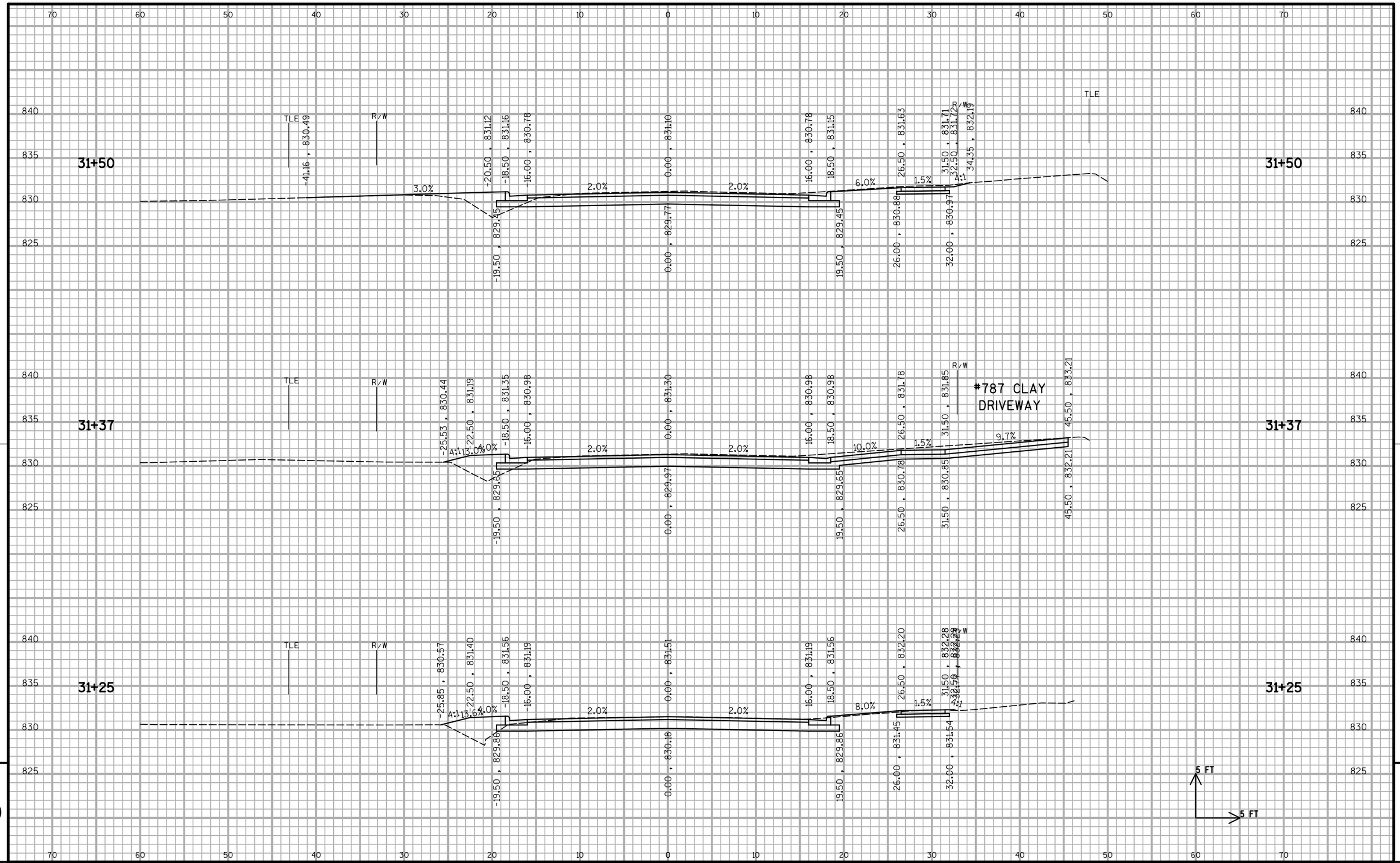
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 178	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



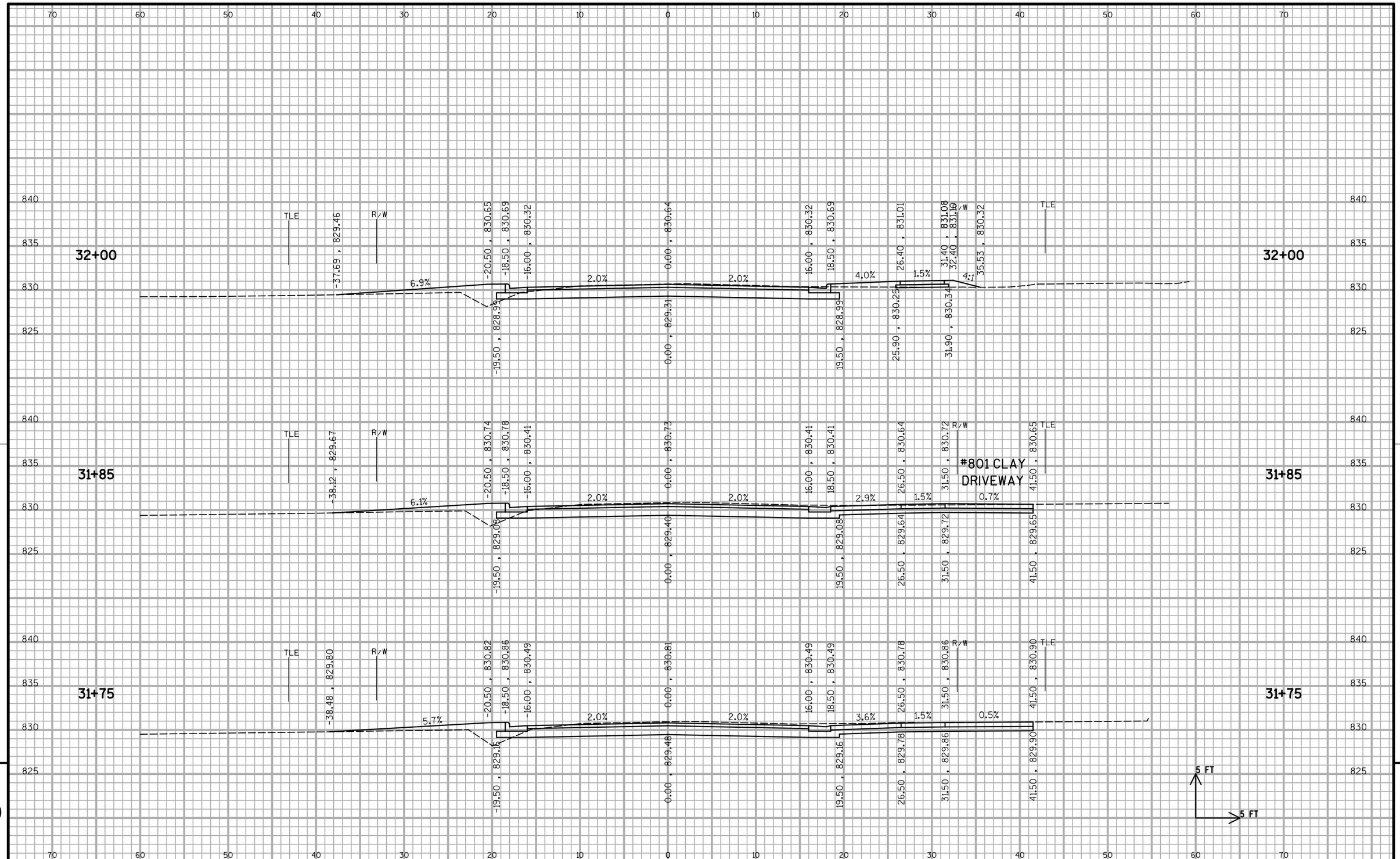
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 180	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

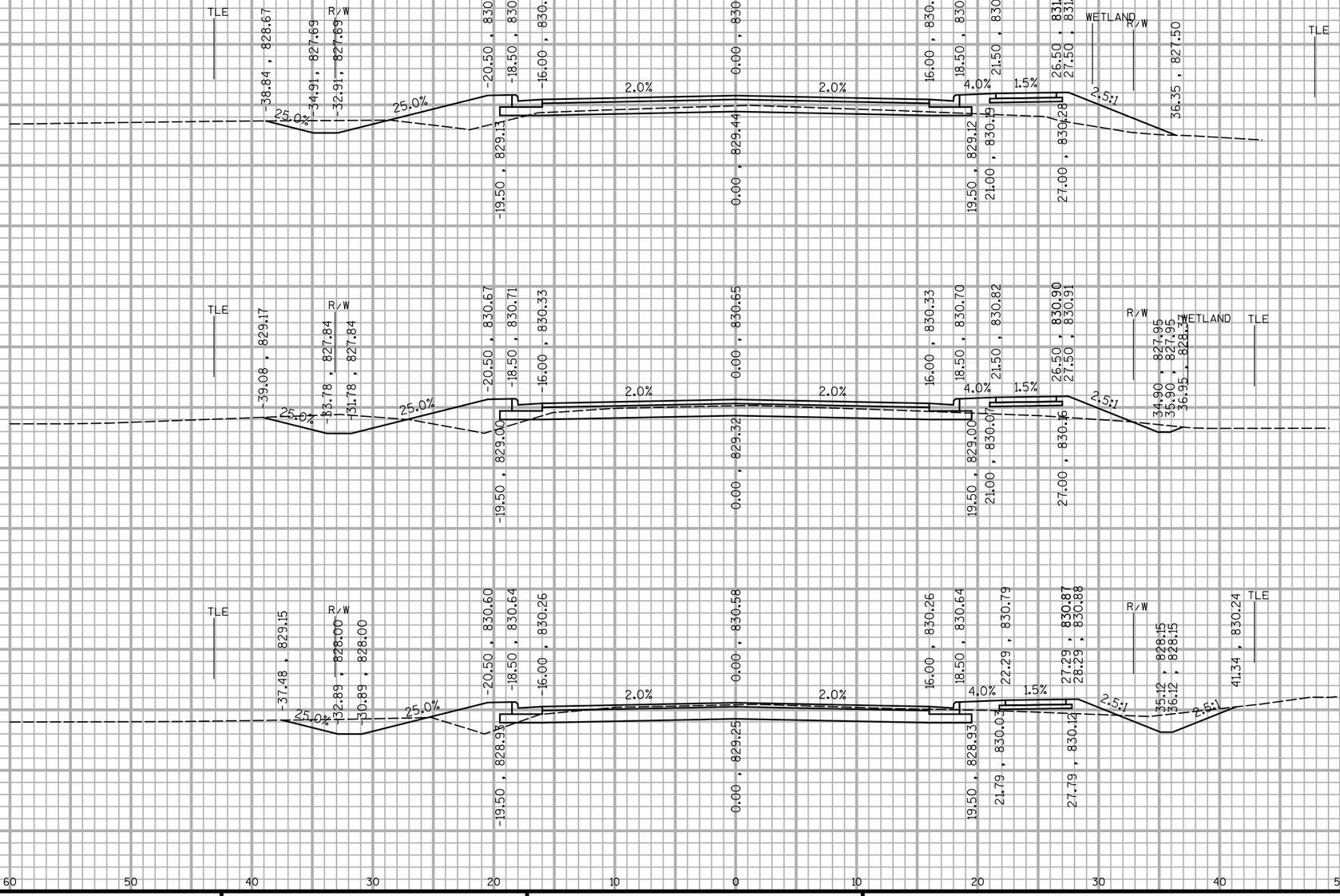


9

9

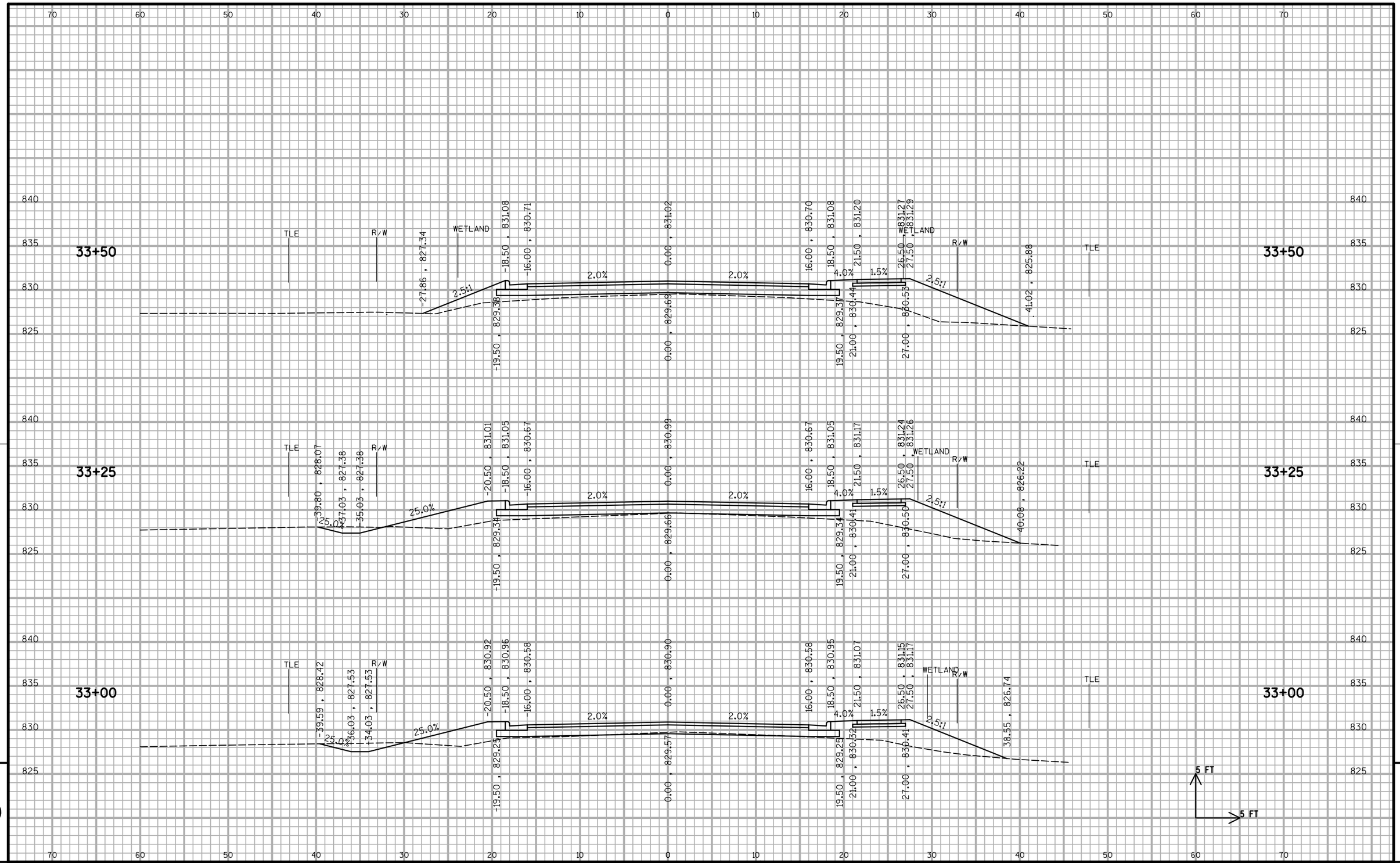
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 181	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

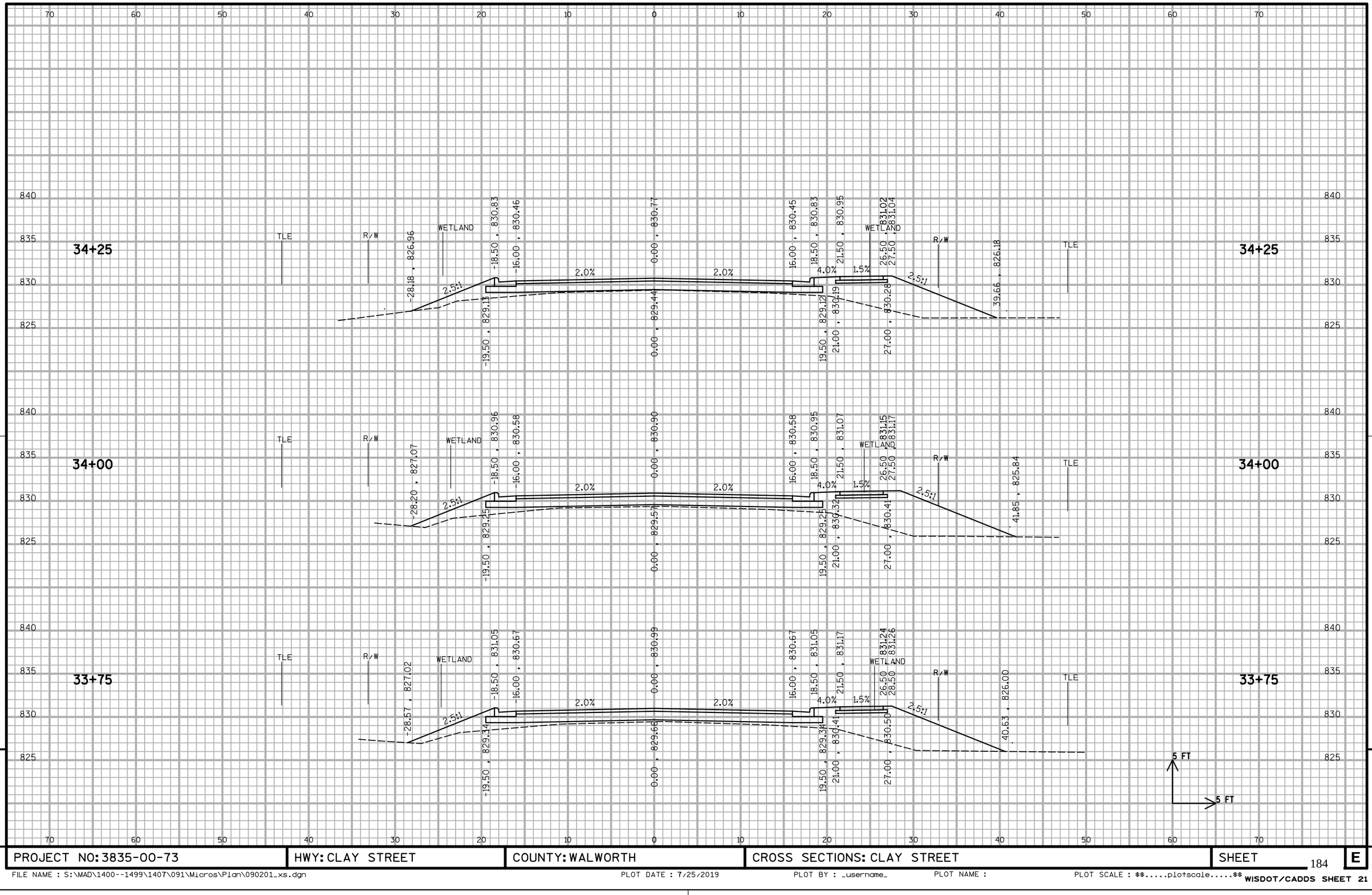
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

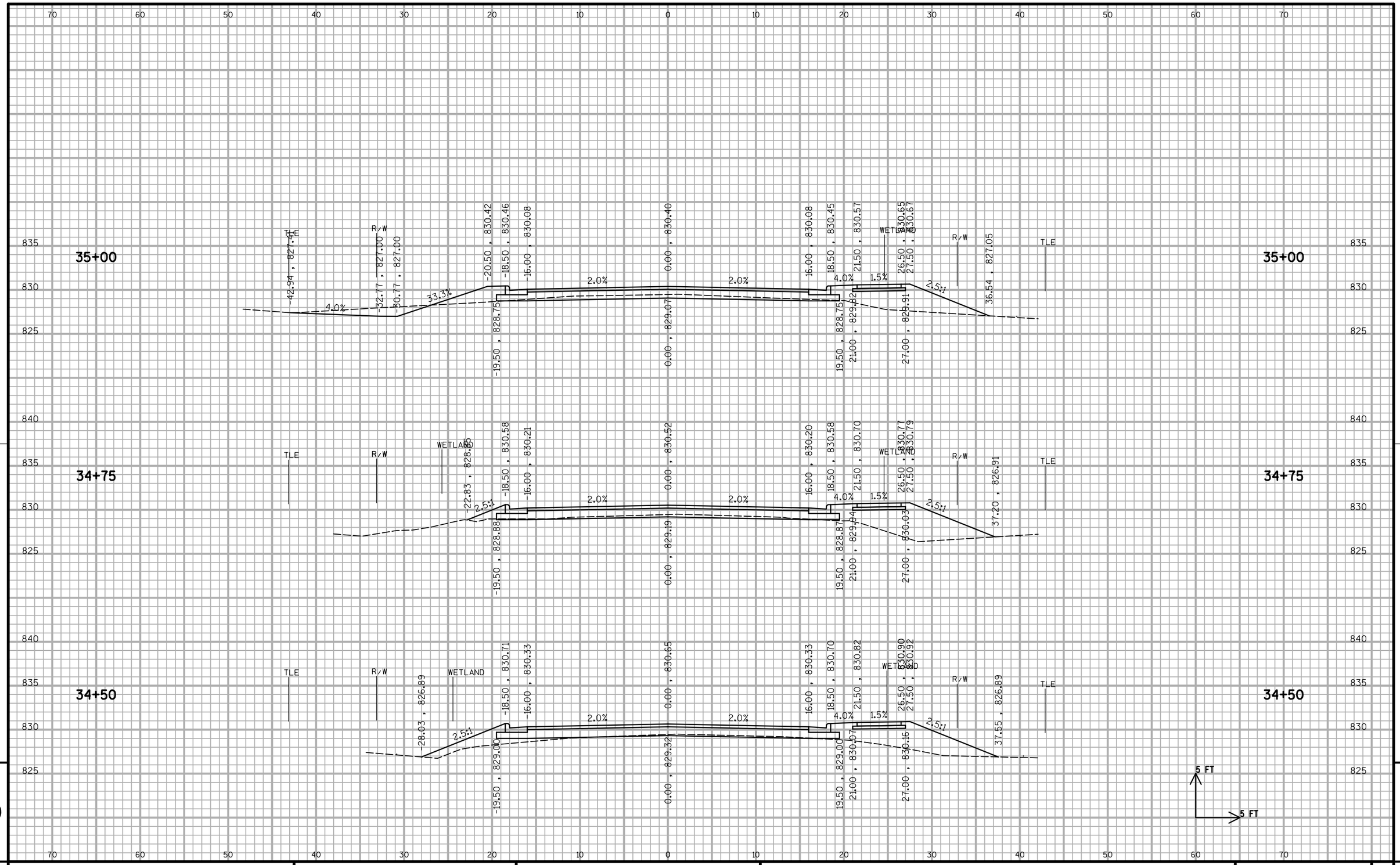
9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 183	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

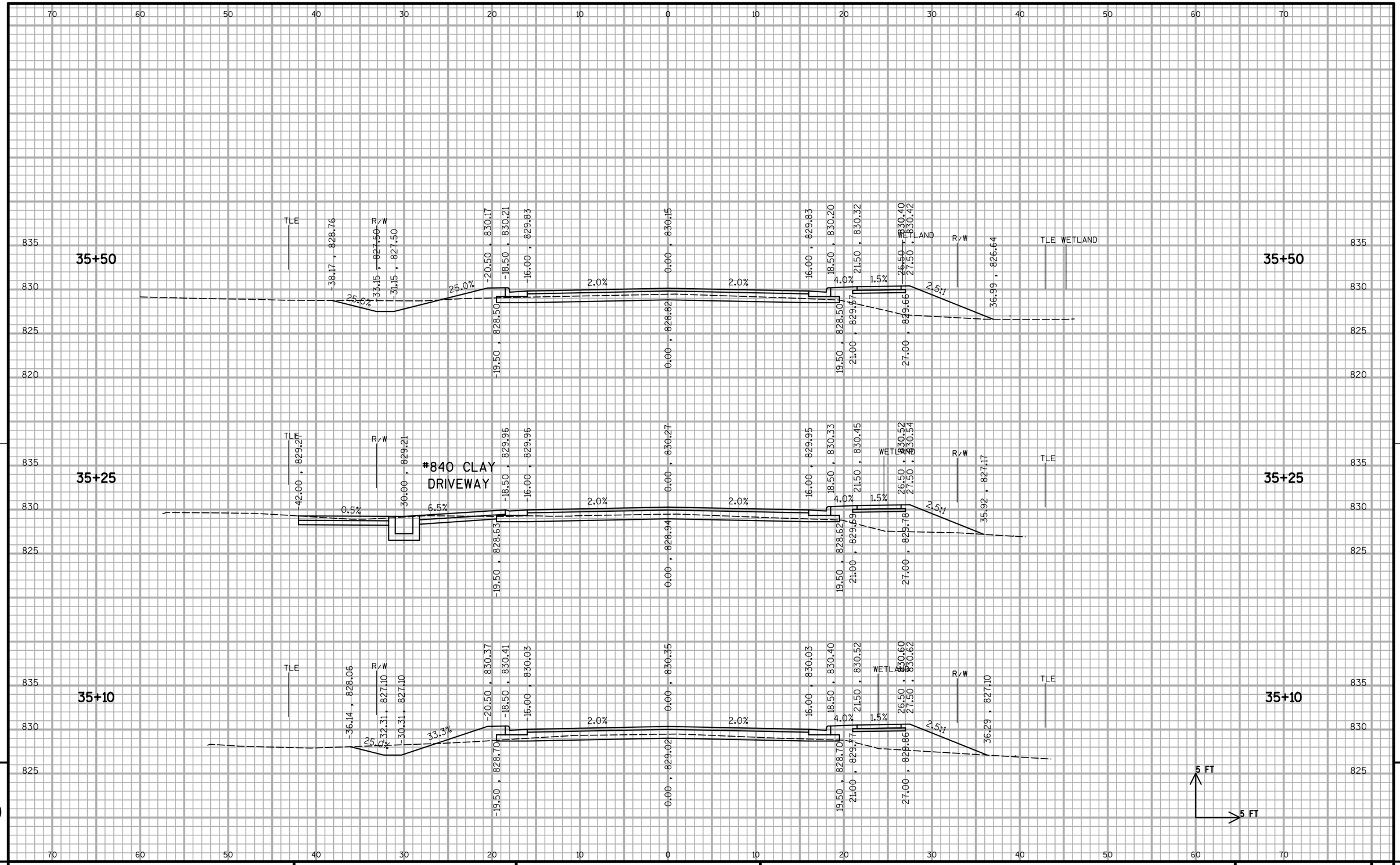
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

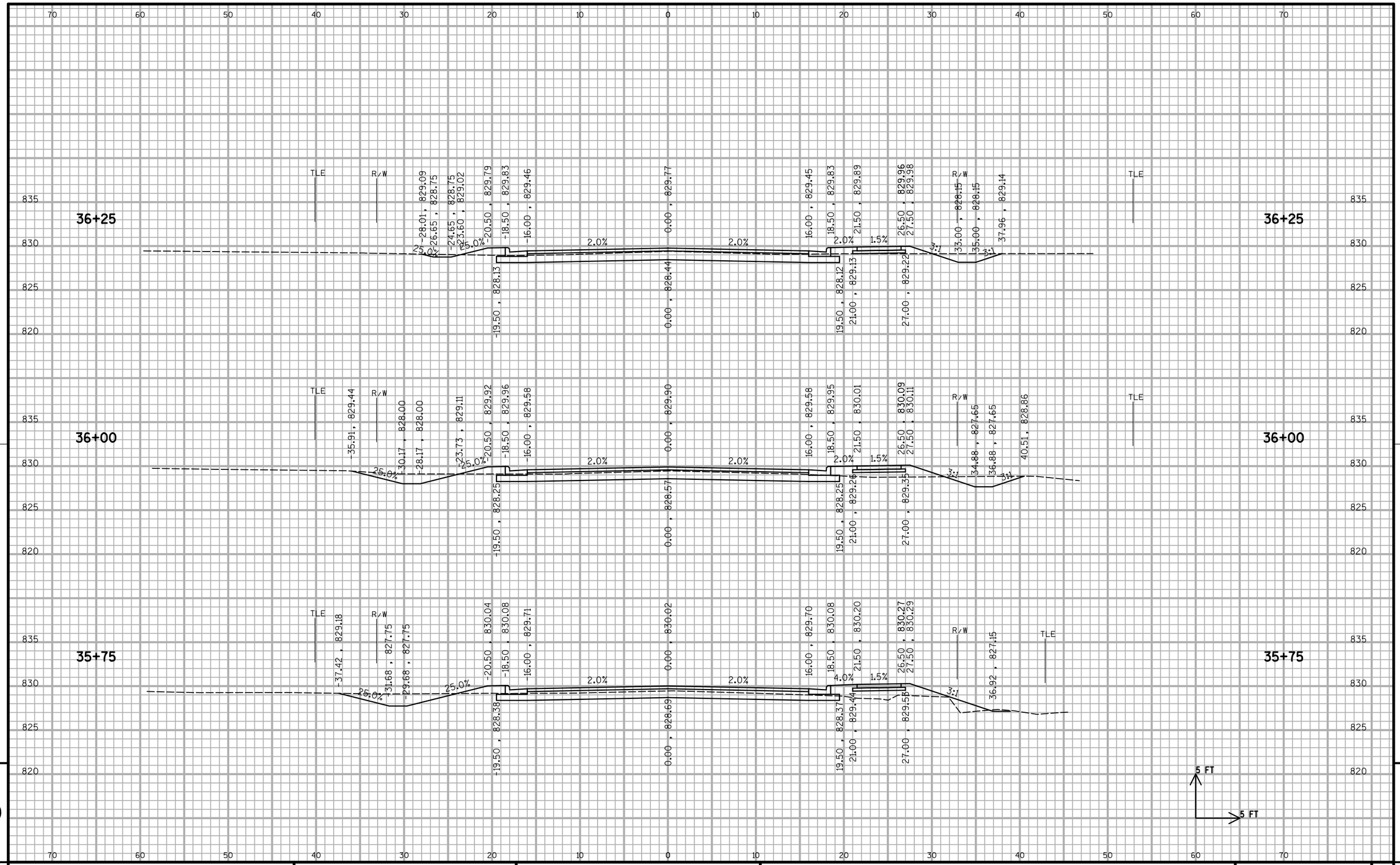
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 185	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

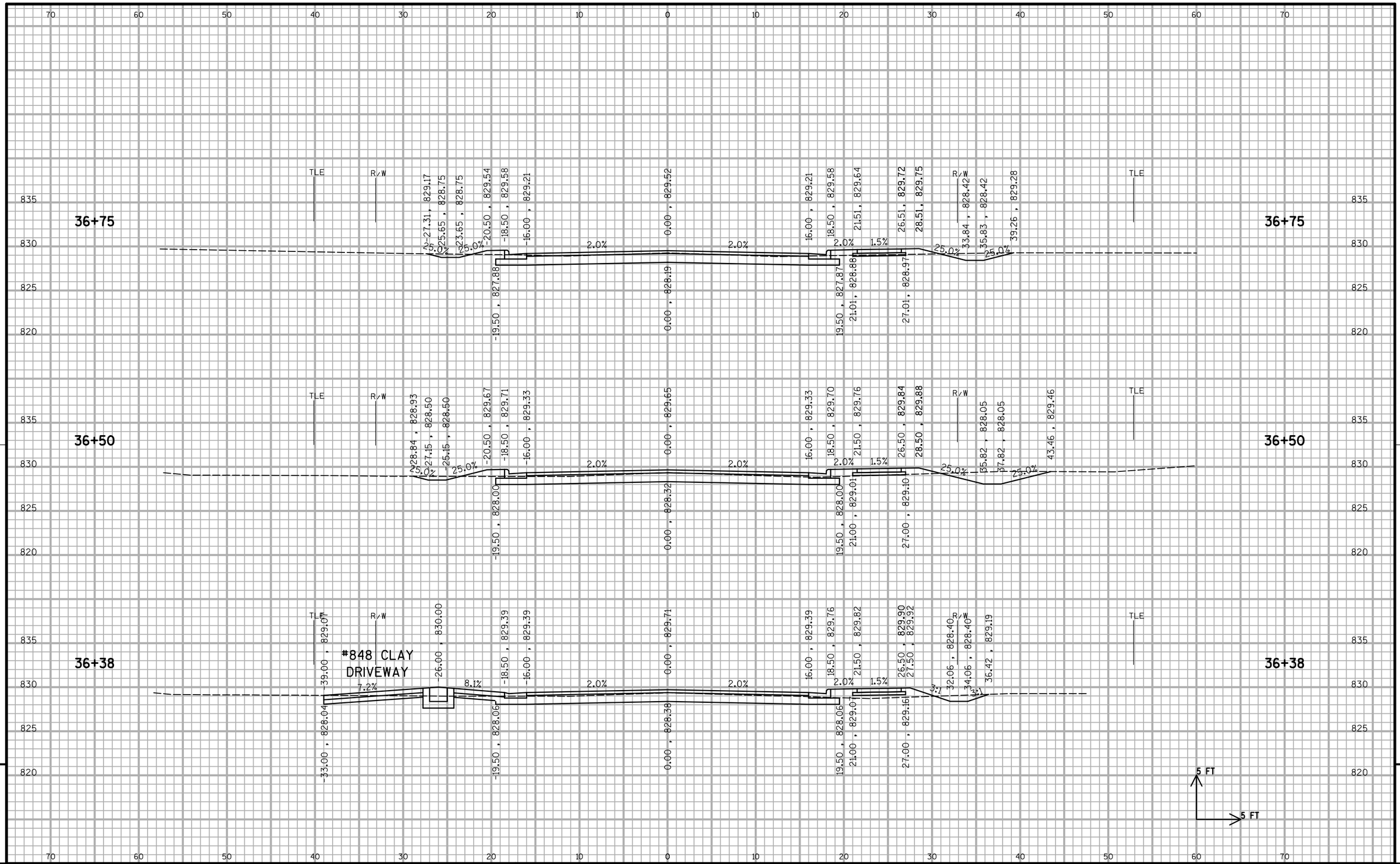


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 187	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

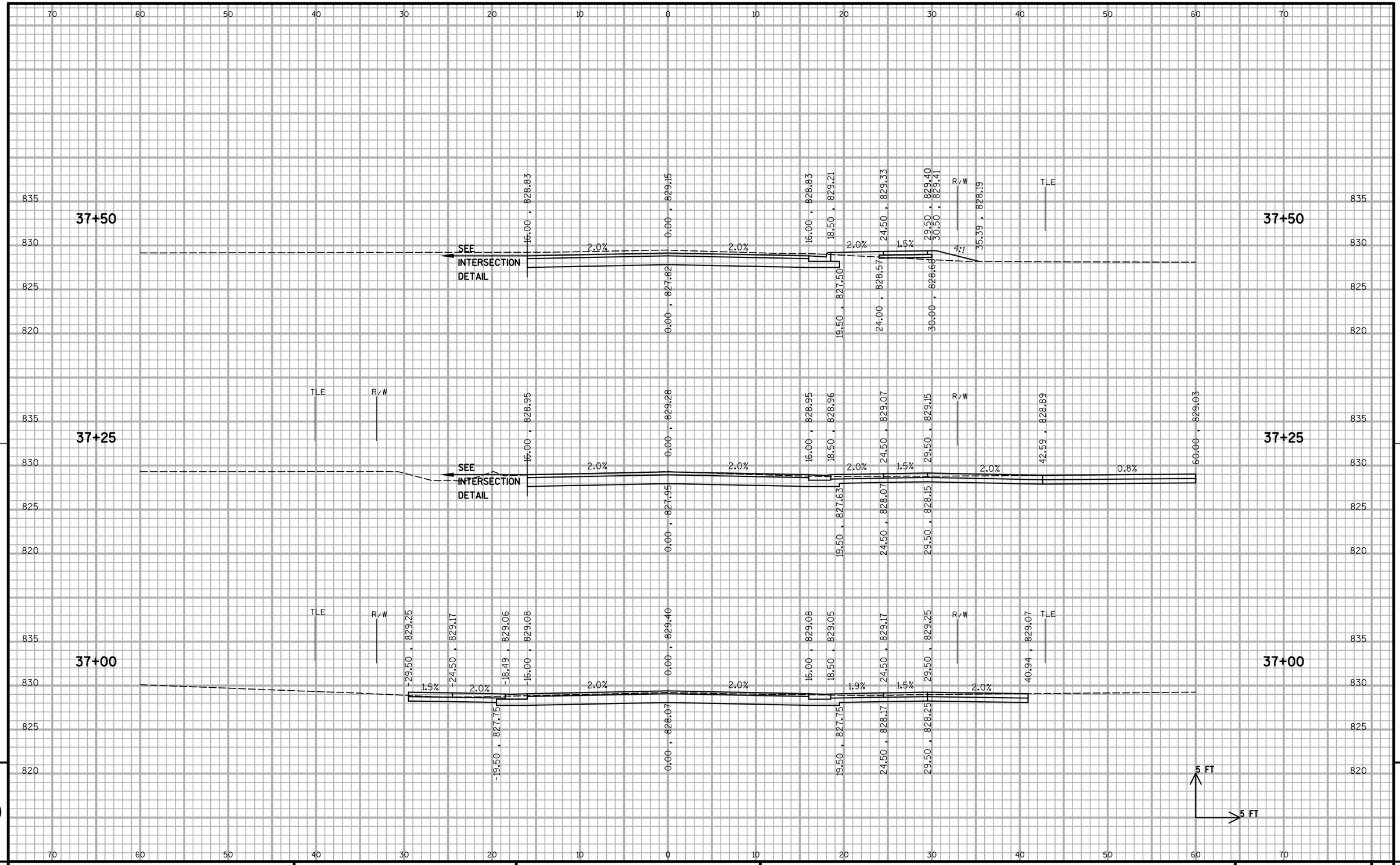


9

9

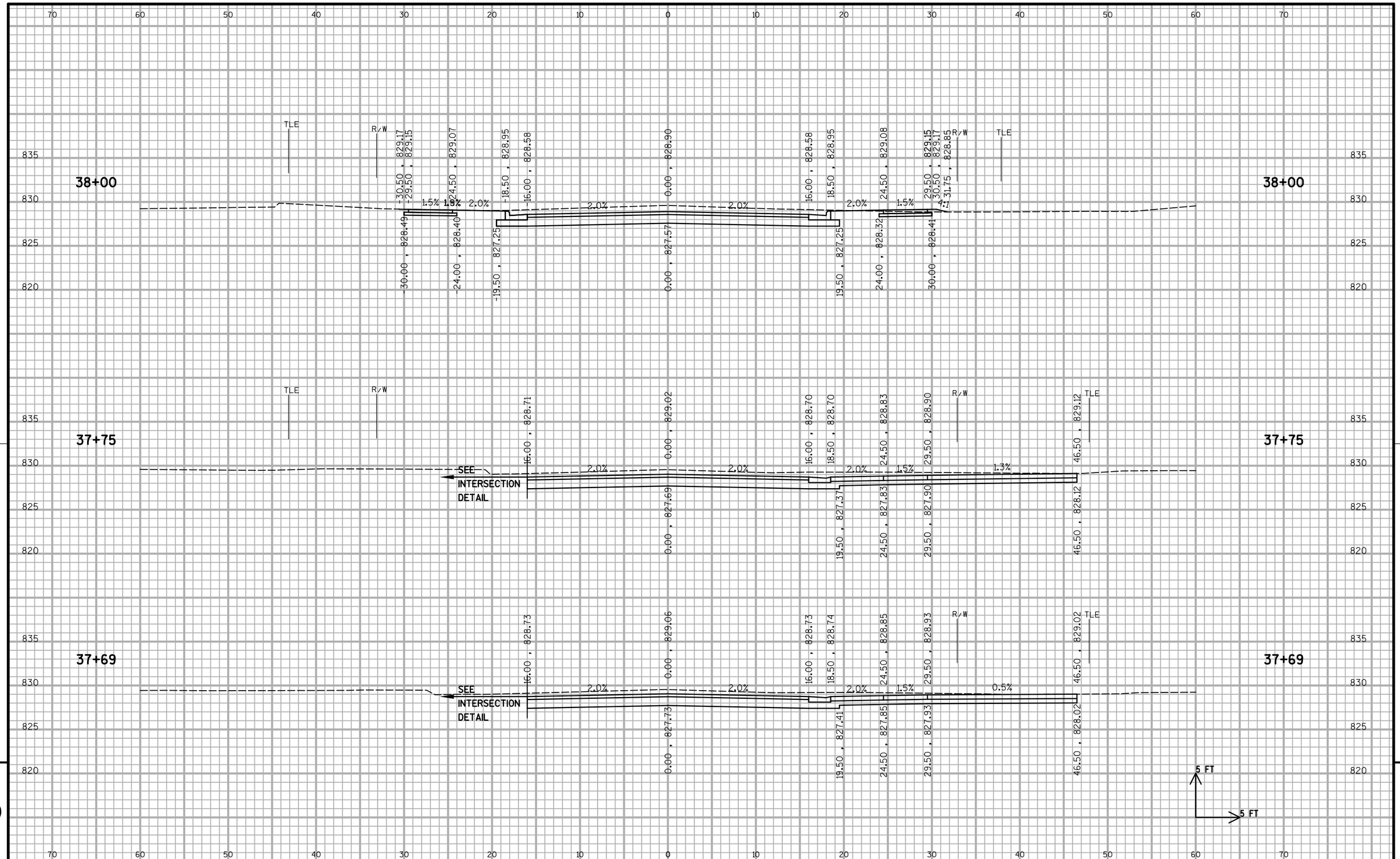
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 188	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

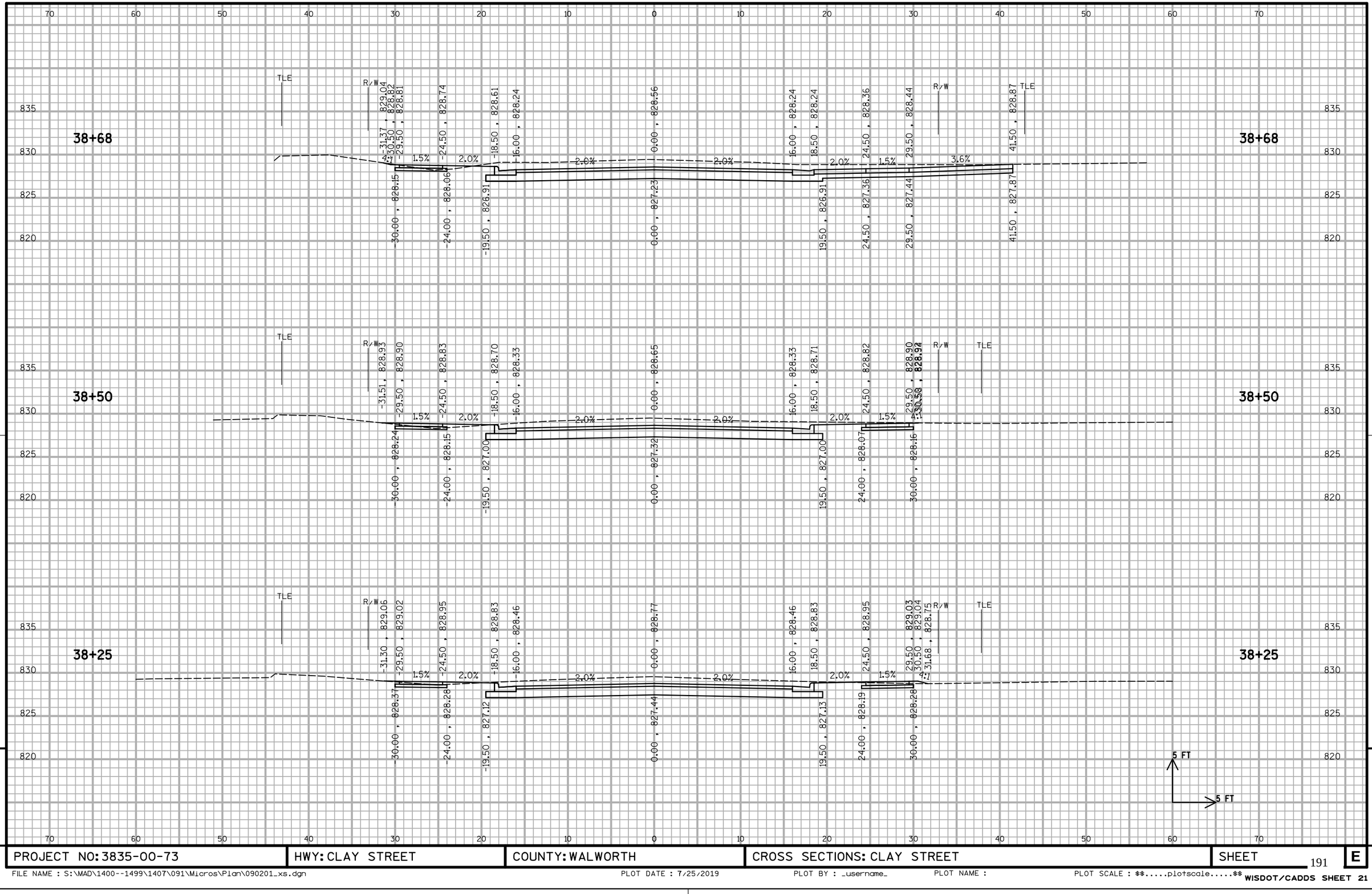


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 190	E

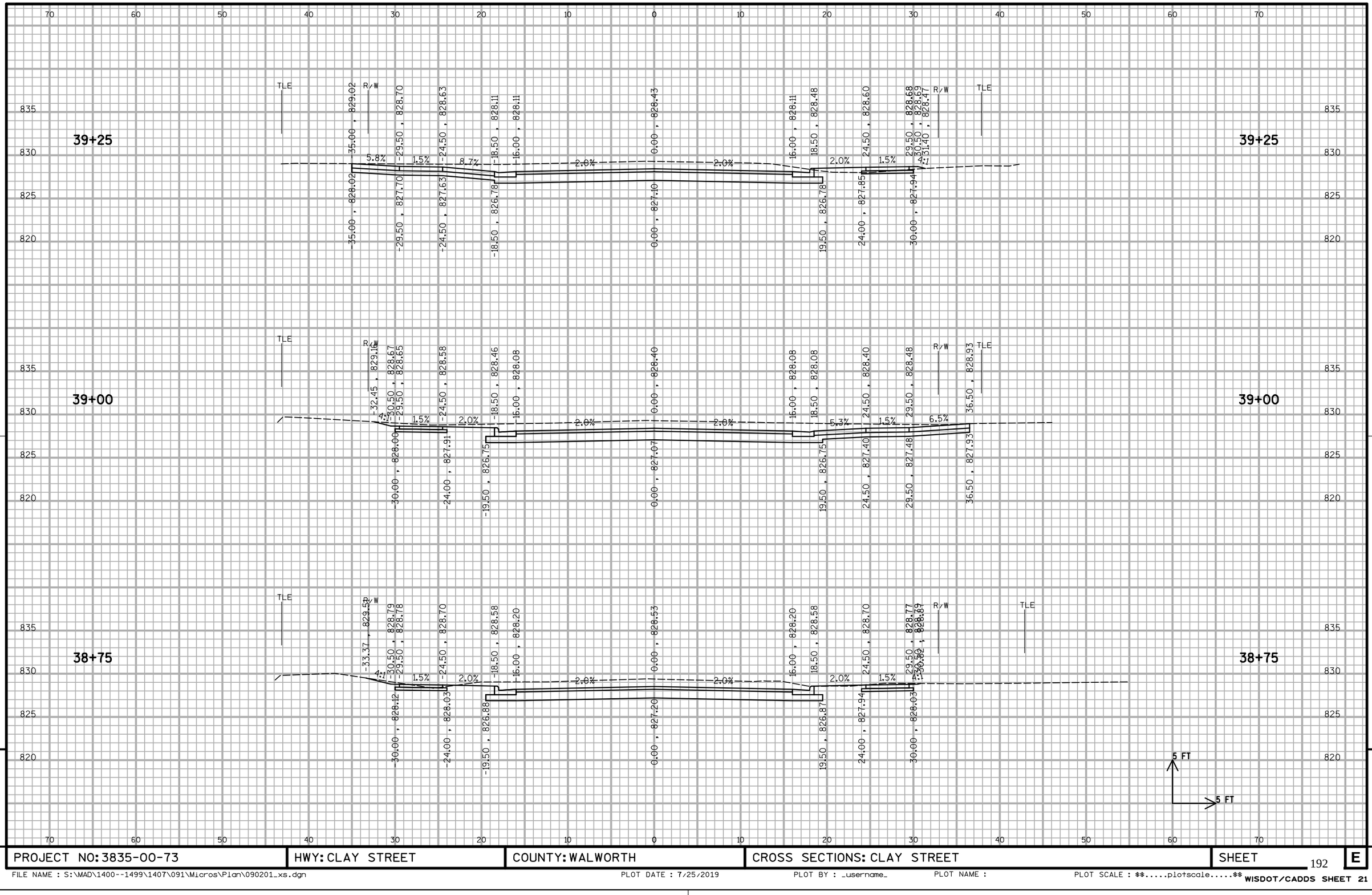
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 191	E

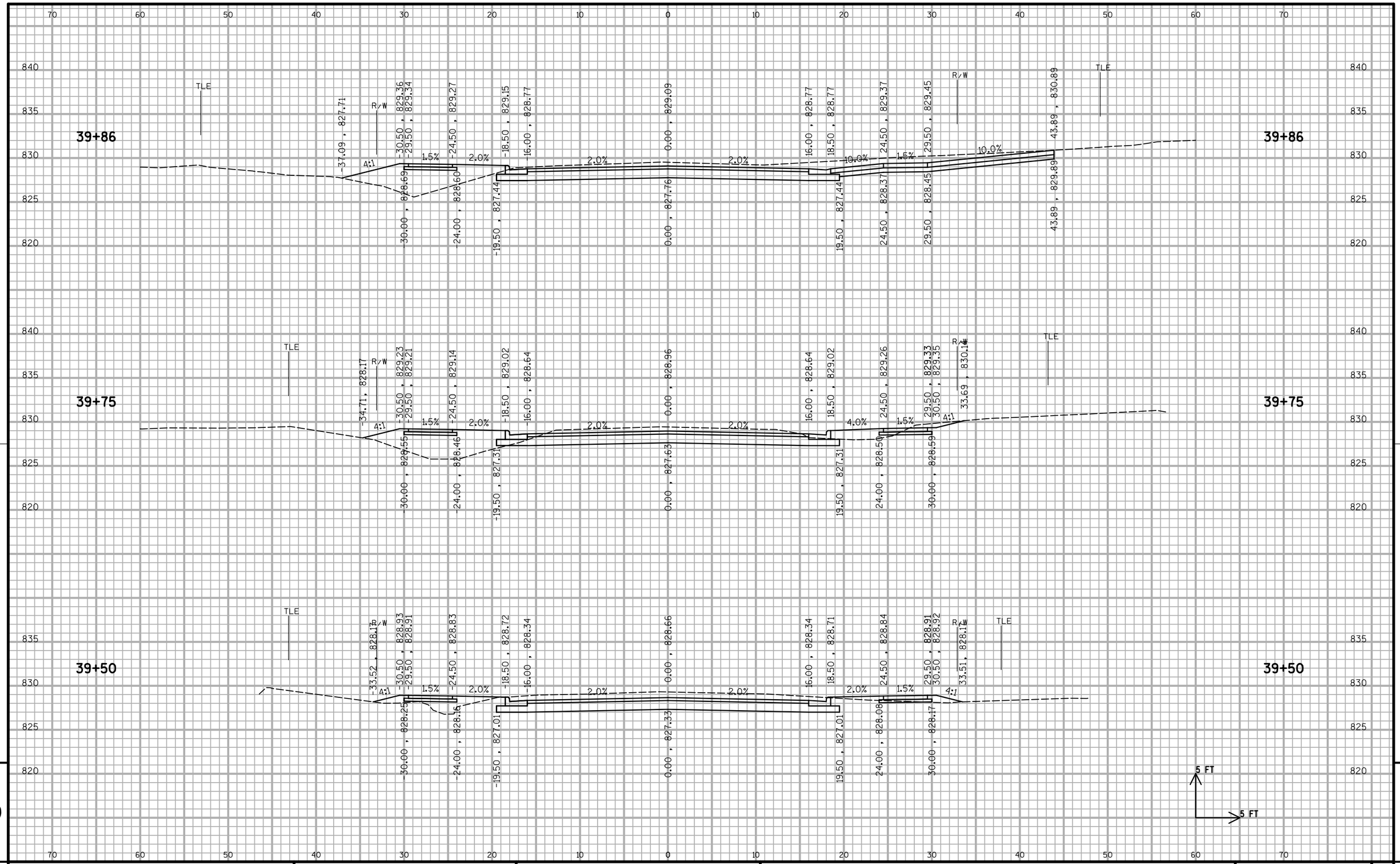


9

9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

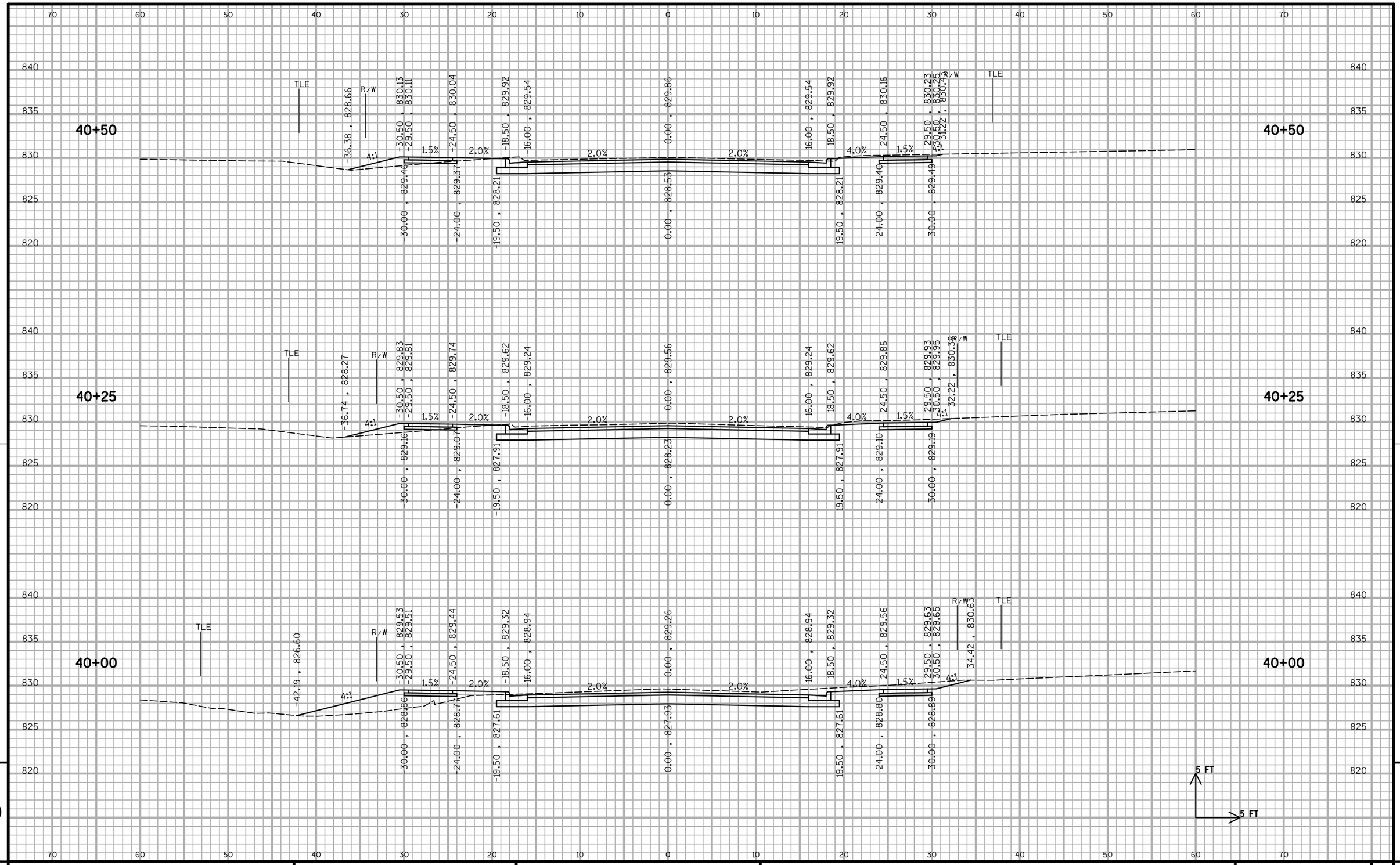
FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

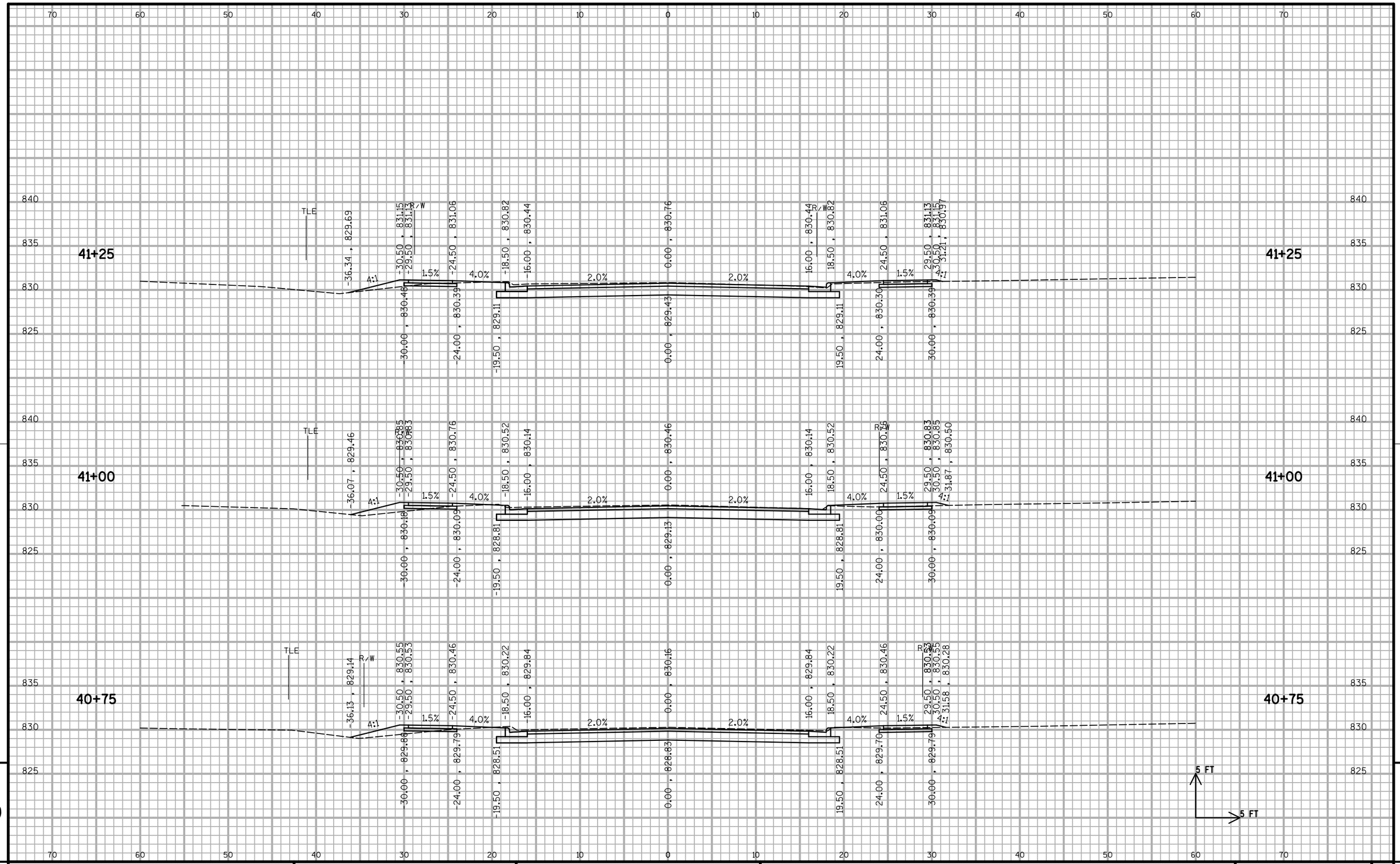
9

PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 193	E



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 194	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

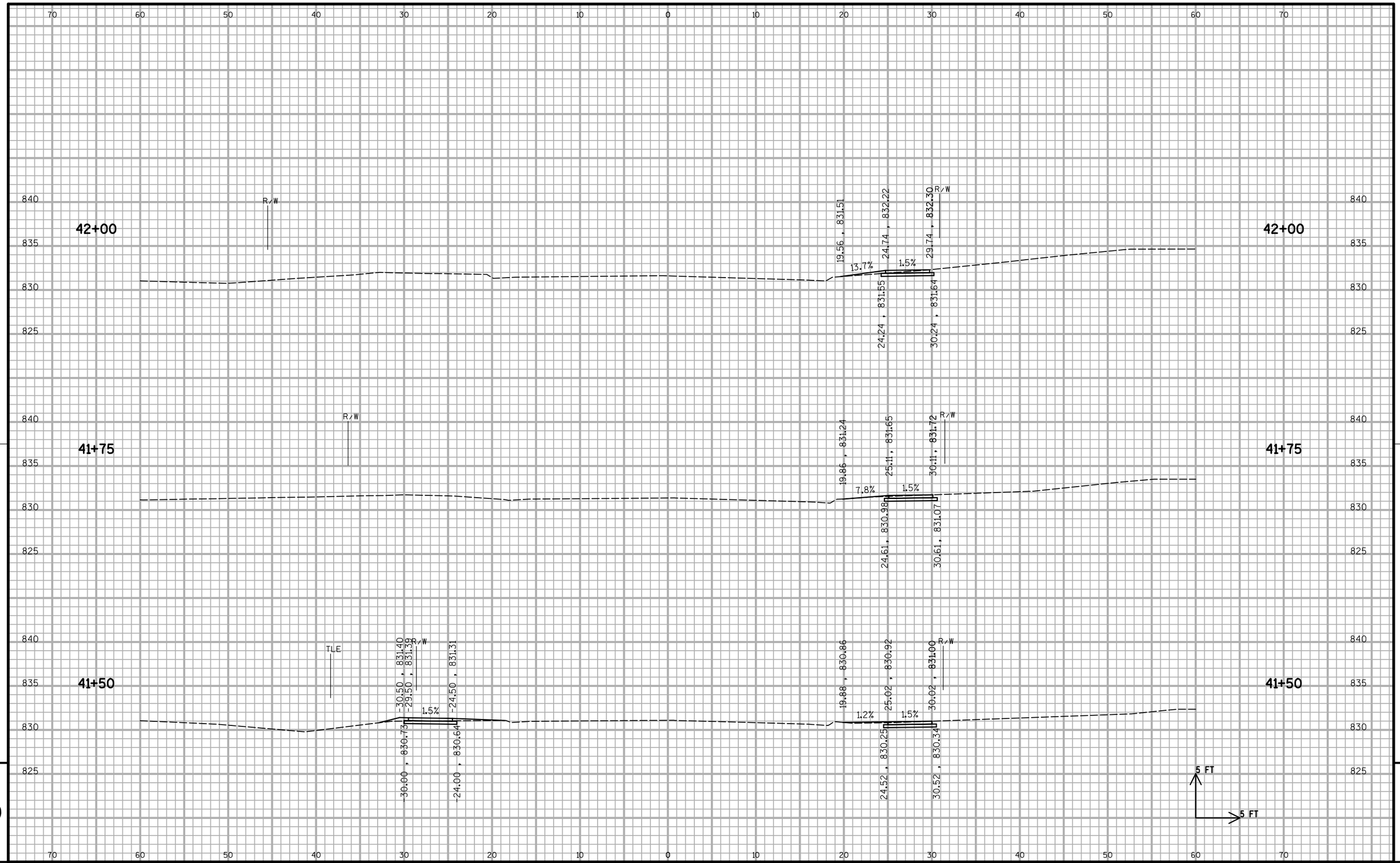


9

9

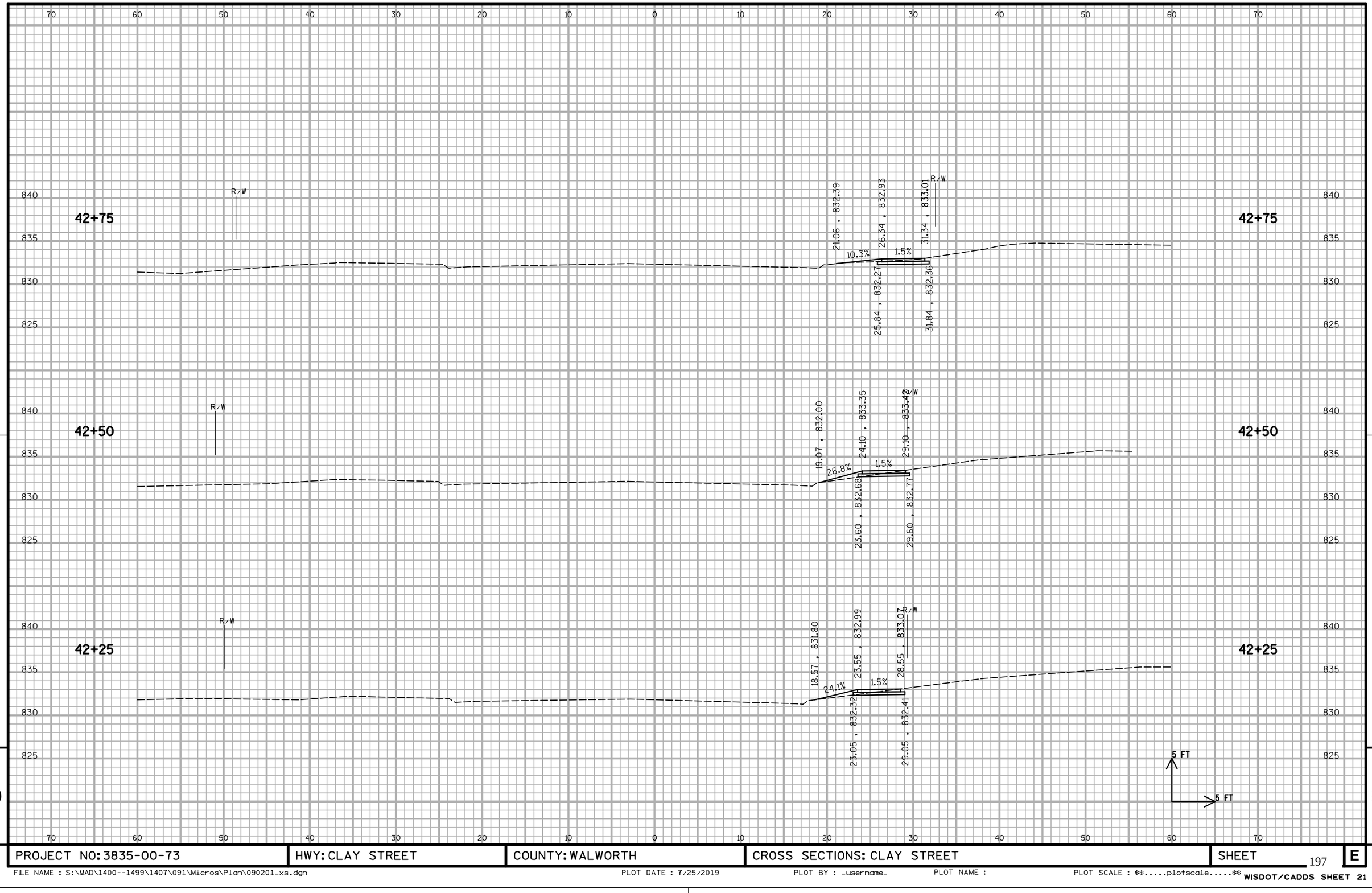
PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 195	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 3835-00-73	HWY: CLAY STREET	COUNTY: WALWORTH	CROSS SECTIONS: CLAY STREET	SHEET 197	E

FILE NAME : S:\MAD\1400--1499\1407\091\Micros\Plan\090201_xs.dgn PLOT DATE : 7/25/2019 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov