

MAD

PROJECT ID:
WITH: N/A

6995-04-74/6995-04-75

COUNTY:

DODGE

OCTOBER 2025
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 = 204



DESIGN DESIGNATION 6995-04-04

A.A.D.T. (2026)	=	6,900
A.A.D.T. (2046)	=	7,300
D.H.V.	=	890
D.D.	=	59/41
T.	=	9.3%
DESIGN SPEED	=	30 MPH
ESALS	=	990,000

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS

PROPERTY LINE

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

MARSH AREA

WOODED OR SHRUB AREA

PROFILE

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE
(To be noted as such)

SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

ELECTRIC

FIBER OPTIC

GAS

SANITARY SEWER

STORM SEWER

TELEPHONE

WATER

UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CITY OF BEAVER DAM, MADISON STREET (CHATHAM STREET TO ROWELL STREET)

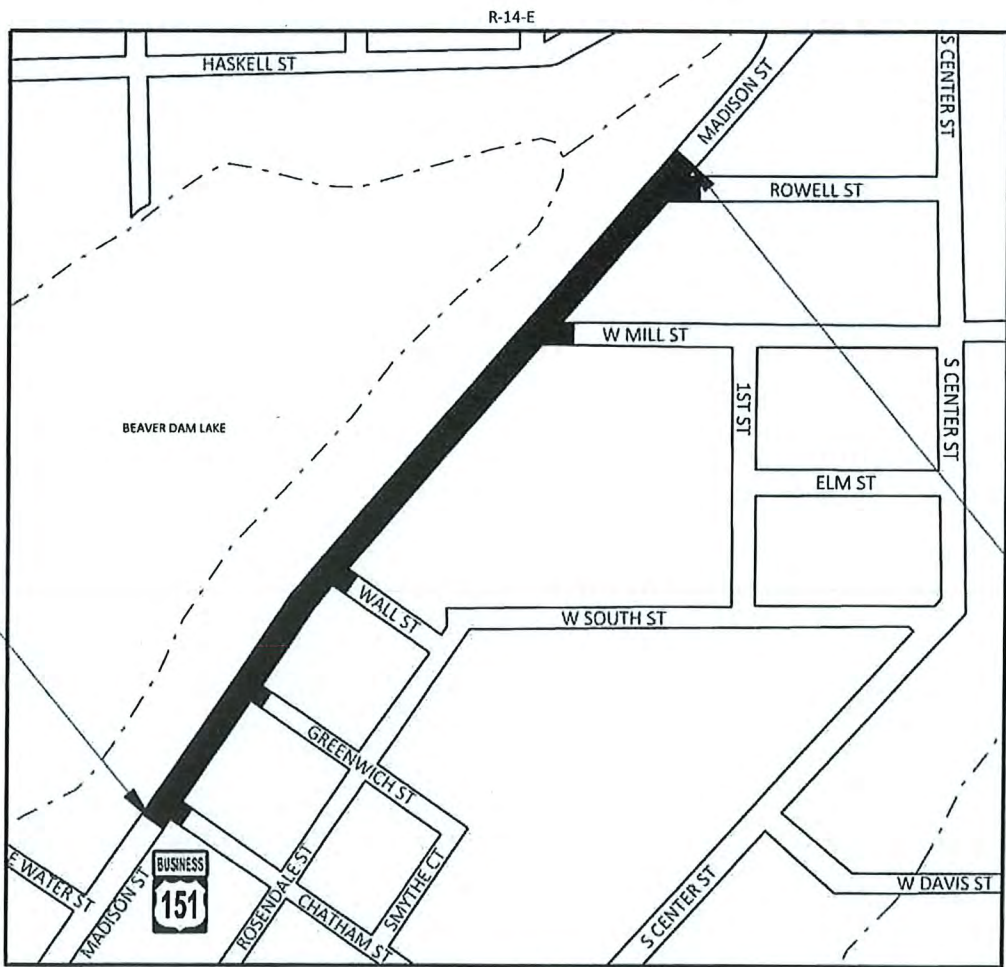
(CHATHAM STREET TO ROWELL STREET)

LOCAL STREET

DODGE COUNTY

STATE PROJECT NUMBER
6995-04-74
ROADWAY

STATE PROJECT NUMBER
6995-04-75
LOCAL UTILITIES



BEGIN PROJECT 6995-04-74
STA. 101+70.00
Y = 720,633.27
X = 844,793.01

END PROJECT 6995-04-74
STA. 124+42.00
Y = 722,399.27
X = 846,217.47

LAYOUT
SCALE 0 500 FT
TOTAL NET LENGTH OF CENTERLINE = 0.430 MILE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN
COORDINATE REFERENCE SYSTEM (WISCRS), DODGE COUNTY,
NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID
COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES
ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED
ELEVATIONS ARE BASED ON GEOID 12A.

STATE PROJECT

6995-04-74

6995-04-75

FEDERAL PROJECT

PROJECT

WISC 2026024

CONTRACT

1

ACCEPTED FOR

CITY OF BEAVER DAM

Date 6/17/25 *Paul McQueen*
Director of Engineering

ORIGINAL PLANS PREPARED BY



1702 Pankratz Street, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664



DATE: 6/16/25 *Chad Wagner*
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC.
Designer	MSA PROFESSIONAL SERVICES, INC.
Project Manager	ZACH PEARSON
Regional Examiner	SW REGION
Regional Supervisor	KYLE HEMP

APPROVED FOR THE DEPARTMENT

DATE: 06/17/25 *Zachary Pearson*
(Signature)

E

GENERAL NOTES

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

PROOF ROLLING OF SUBBASE IS REQUIRED BEFORE PLACEMENT OF BASE COURSE & IS INCIDENTAL TO EXCAVATION COMMON. PROOF ROLLING SHALL BE WITNESSED BY THE ENGINEER.

PRIOR TO ORDERING DRAINAGE PIPES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND RESOLVE ALL CONFLICT VERIFICATIONS BY WAY OF ULO'S WITH THE ENGINEER.

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

ALL LENGTHS ARE IN FEET EXCEPT AS SHOWN.

STORM SEWER LENGTHS ARE TO CENTER OF STRUCTURES.

OFFSETS FOR INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF STRUCTURE. STORM SEWER PIPE LENGTHS ARE TO CENTER OF STRUCTURES.

A MINIMUM 6-INCHES OF ADJUSTMENT RINGS ARE REQUIRED FOR STORM SEWER STRUCTURES, UNLESS OTHERWISE NOTED (12-INCHES MAXIMUM).

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALTIC CONCRETE DRIVEWAYS, SIDEWALKS, OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER, OR AS SHOWN ON THE PLANS.

ALL CONCRETE DRIVEWAYS AND SIDEWALKS ACROSS DRIVEWAYS SHALL BE 6-INCHES THICK AND SHALL BE PAID FOR AS CONCRETE DRIVEWAY 6-INCH AND CONCRETE SIDEWALK 6-INCH.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FACE OF CURB.

THE LATERAL CLEARANCE BEHIND CURB AND GUTTER IS 2 FEET FROM THE FACE OF THE CURB.

EROSION CONTROL FEATURES TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO START OF CONSTRUCTION.

A 25% EXPANSION FACTOR WAS USED TO CALCULATE FILL QUANTITIES.

NO CONCRETE STEPS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

REMOVING CONCRETE STEPS SHALL BE PAID FOR AS REMOVING CONCRETE SIDEWALK.

DESIGN CONTACTS

MSA PROFESSIONAL SERVICES, INC.
ATTN: CHAD WAGNER, P.E.
1702 PANKRATZ STREET
MADISON, WI 53704
TELEPHONE: (608) 242-6651
EMAIL: CWAGNER@MSA-PS.COM

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ATTN: ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI. 53711
TELEPHONE: (608) 275-3301
EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
SW REGION
ATTN: ZACH PEARSON
2101 WRIGHT STREET
MADISON, WI 53704
TELEPHONE: (608) 246-5319
EMAIL: ZACHARY.PEARSON@DOT.WI.GOV

CITY OF BEAVER DAM CONTACTS

DIRECTOR OF UTILITIES

JEREMY KLUG
108 MYRTLE ROAD
BEAVER DAM, WI 53916
TELEPHONE: (920) 887-4625
EMAIL: JKLUG@CI.BEAVERDAM.WI.GOV

DIRECTOR OF ENGINEERING

TODD JANSSEN
205 S. LINCOLN AVENUE
BEAVER DAM, WI 53916
TELEPHONE: (920) 356-2543
EMAIL: TJANSSEN@CI.BEAVERDAM.WI.GOV

POSTMASTER

AMY PROCHNOW
411 N SPRING STREET
BEAVER DAM, WI 53916
EMAIL: AMY.I.PROCHNOW@USPS.GOV

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
OVERVIEW DETAILS
PAVING DETAILS
CURB RAMP DETAILS
EROSION CONTROL
STORM SEWER
SANITARY SEWER AND WATER MAIN
PERMANENT SIGNING
PAVEMENT MARKINGS
TRAFFIC CONTROL OVERVIEW
DETOUR PLAN
PEDESTRIAN DETOUR PLAN
PEDESTRIAN ACCOMMODATION PLAN
ALIGNMENT OVERVIEW
CONTROL POINTS

UTILITIES

ELECTRIC

ALLIANT ENERGY
ATTN: BILL BASTIAN
883 W. SCOTT STREET
FOND DU LAC, WI 54937
TELEPHONE: (920) 322-6716
EMAIL: WILLIAMBASTIAN@ALLIANTENERGY.COM

GAS

ALLIANT ENERGY
ATTN: BILL BASTIAN
883 W. SCOTT STREET
FOND DU LAC, WI 54937
TELEPHONE: (920) 322-6716
EMAIL: WILLIAMBASTIAN@ALLIANTENERGY.COM

COMMUNICATIONS

AT&T WISCONSIN
ATTN: CHUCK BARTELT
70 E. DIVISION STREET
FOND DU LAC, WI 54935
TELEPHONE: (920) 929-1013
EMAIL: CB1461@ATT.COM

SANITARY SEWER

BEAVER DAM UTILITIES
ATTN: JEREMY KLUG
108 MYRTLE ROAD
BEAVER DAM, WI 53916
TELEPHONE: (920) 887-4625
EMAIL: JKLUG@CI.BEAVERDAM.WI.GOV

WATER MAIN

BEAVER DAM UTILITIES
ATTN: JEREMY KLUG
108 MYRTLE ROAD
BEAVER DAM, WI 53916
TELEPHONE: (920) 887-4625
EMAIL: JKLUG@CI.BEAVERDAM.WI.GOV

COMMUNICATIONS

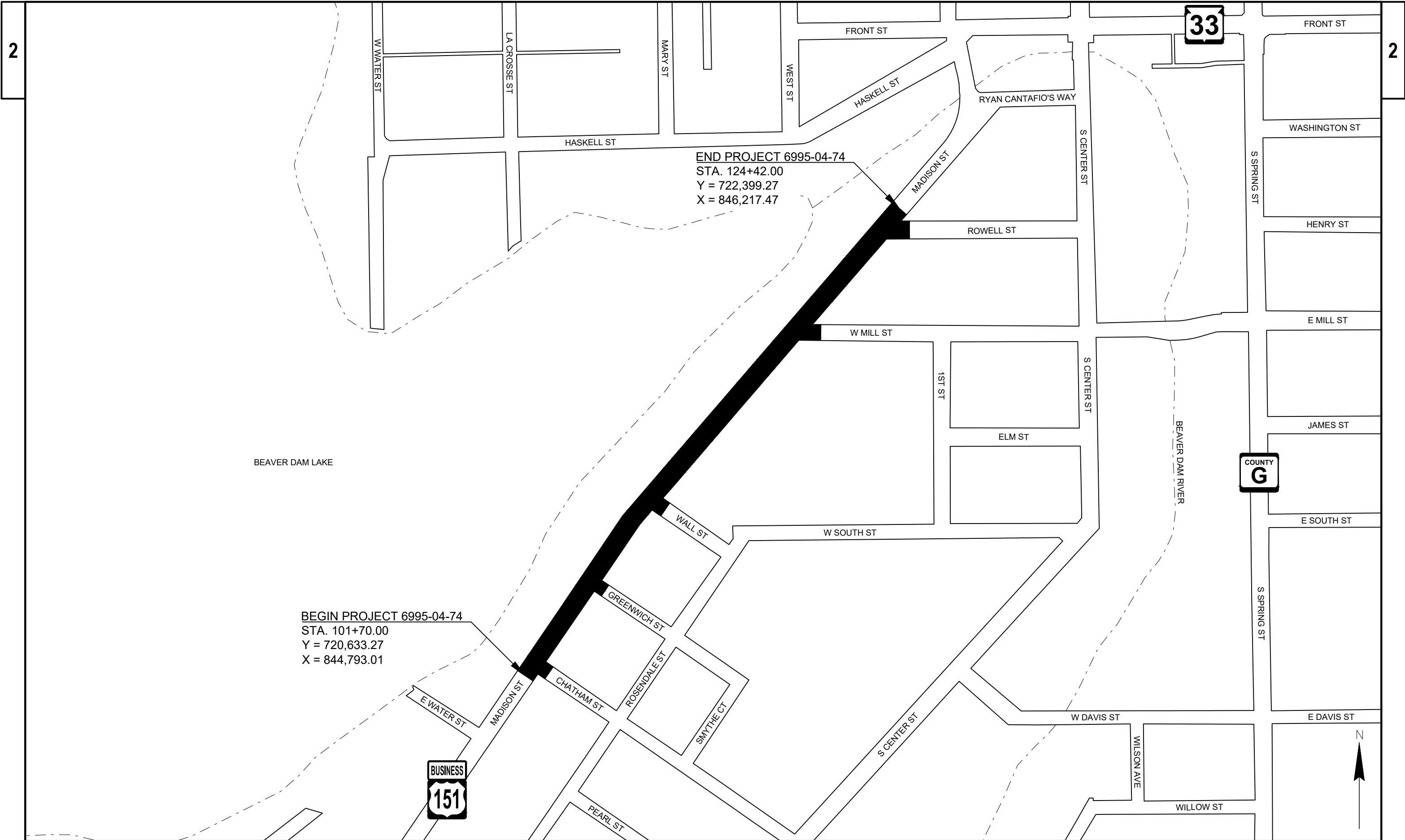
SPECTRUM
ATTN: COREY LEWIS
N3760 County Rd DJ
JUNEAU, WI 53039
TELEPHONE: (920) 404-0575
EMAIL: COREY.LEWIS@CHARTER.COM

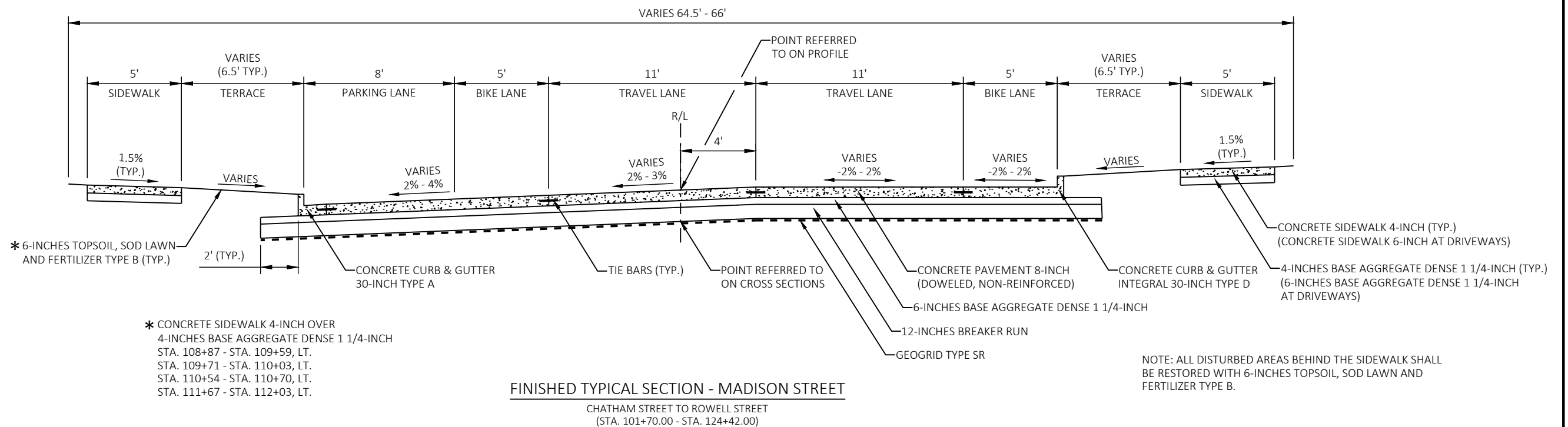
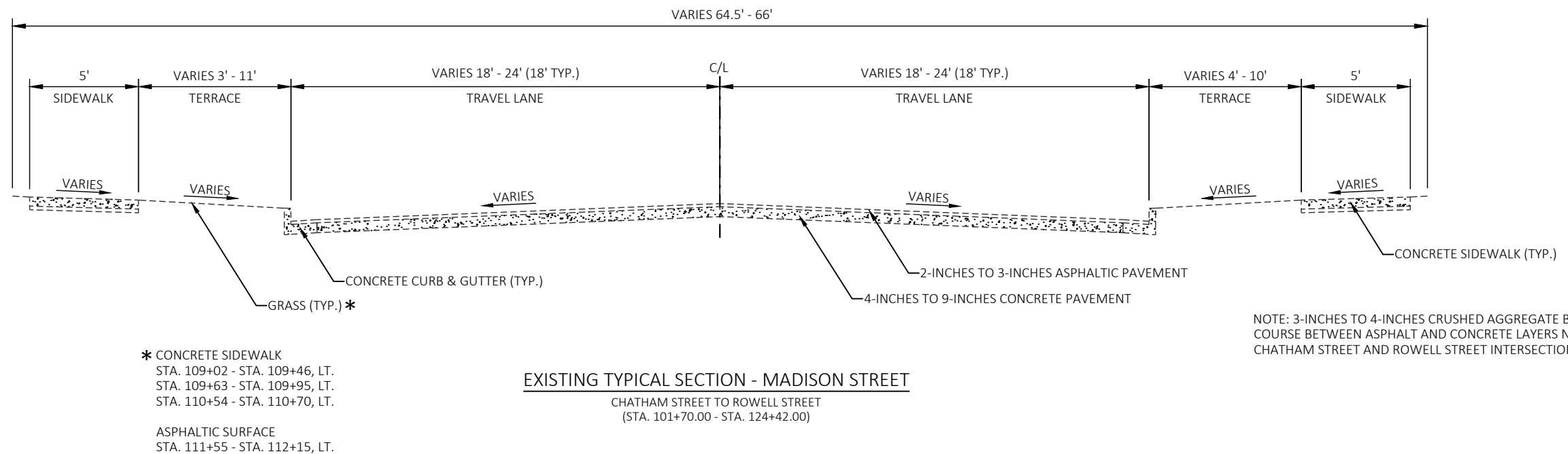


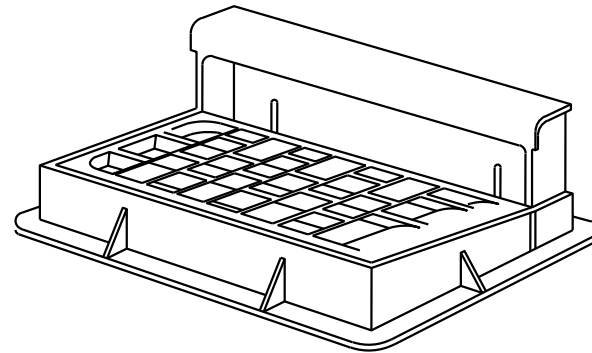
RUNOFF COEFFICIENT TABLE

	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	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

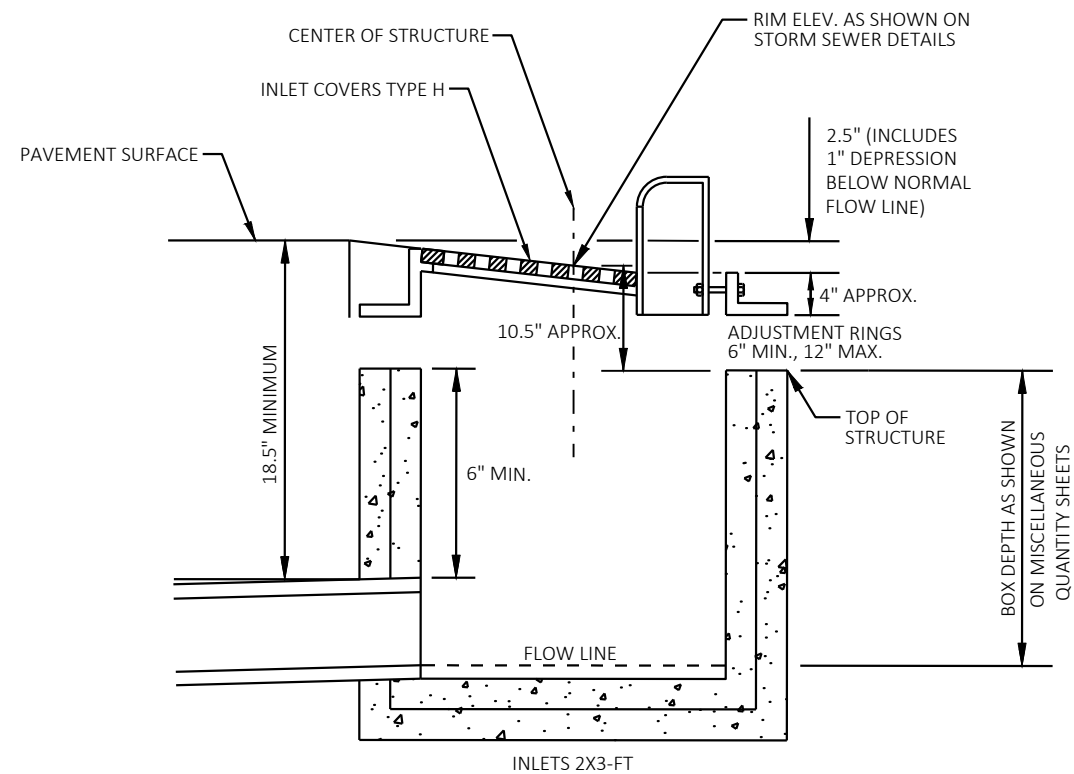
TOTAL PROJECT AREA = 3.75 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.75 ACRES



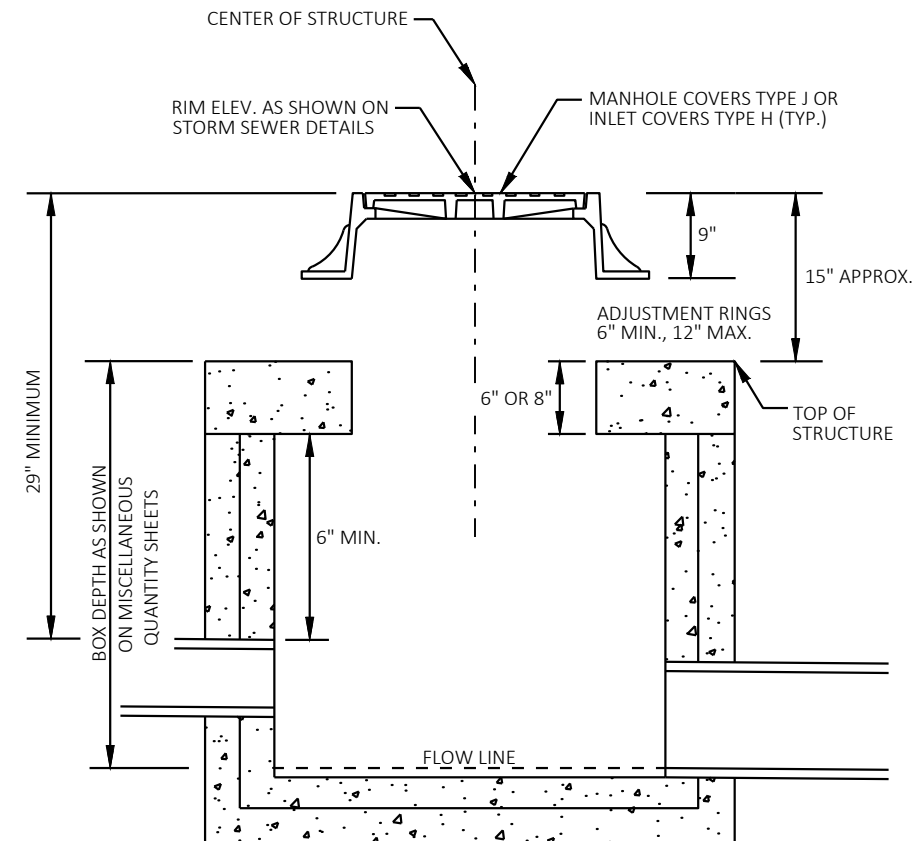




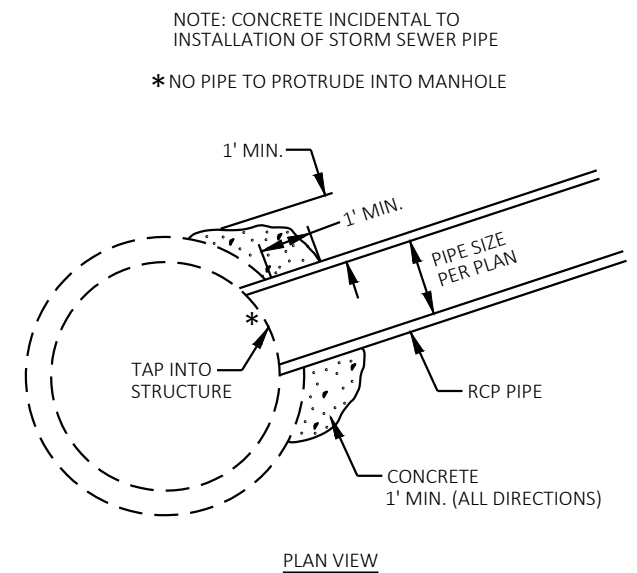
INLET COVERS TYPE H DETAIL



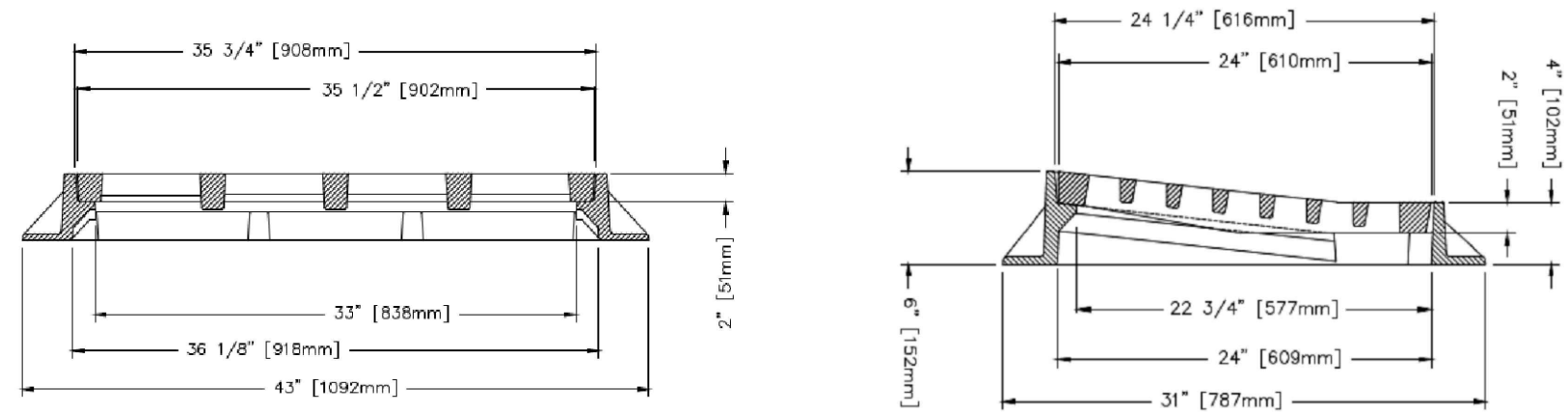
DETAIL FOR COMPUTING INLET ELEVATIONS
SCALE: NONE



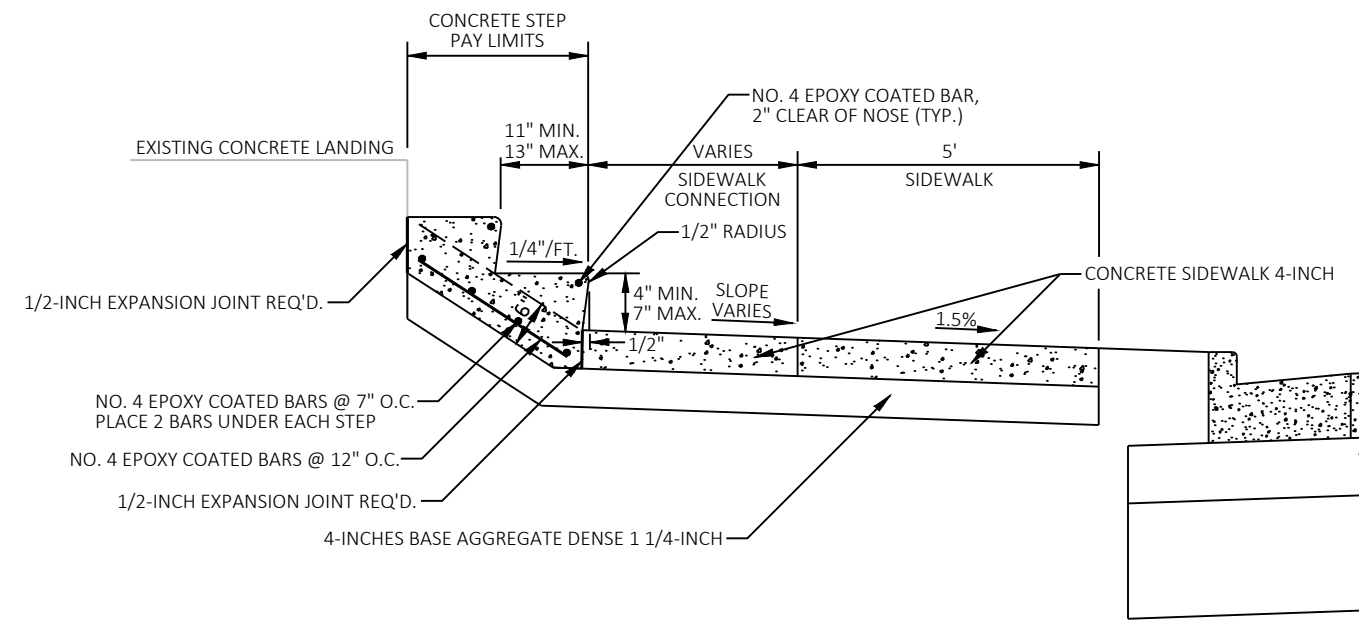
DETAIL FOR COMPUTING ROUND STRUCTURE ELEVATIONS
SCALE: NONE



MANHOLE CONNECTION DETAIL
SCALE: NONE



INLETS COVER TYPE DRIVEWAY SPECIAL DETAIL
SCALE: NONE

**NOTES:**

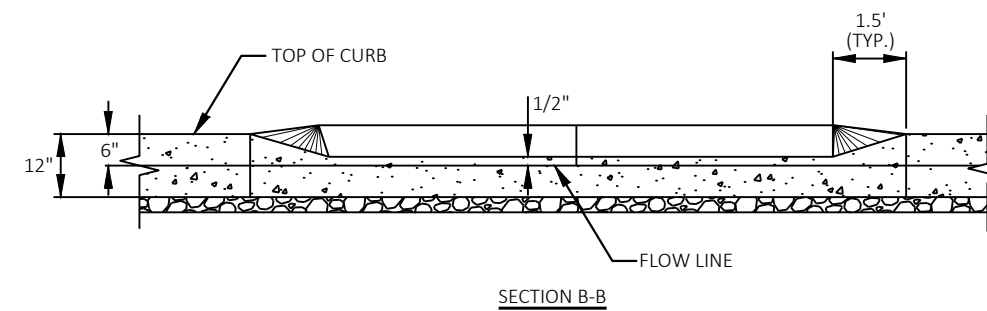
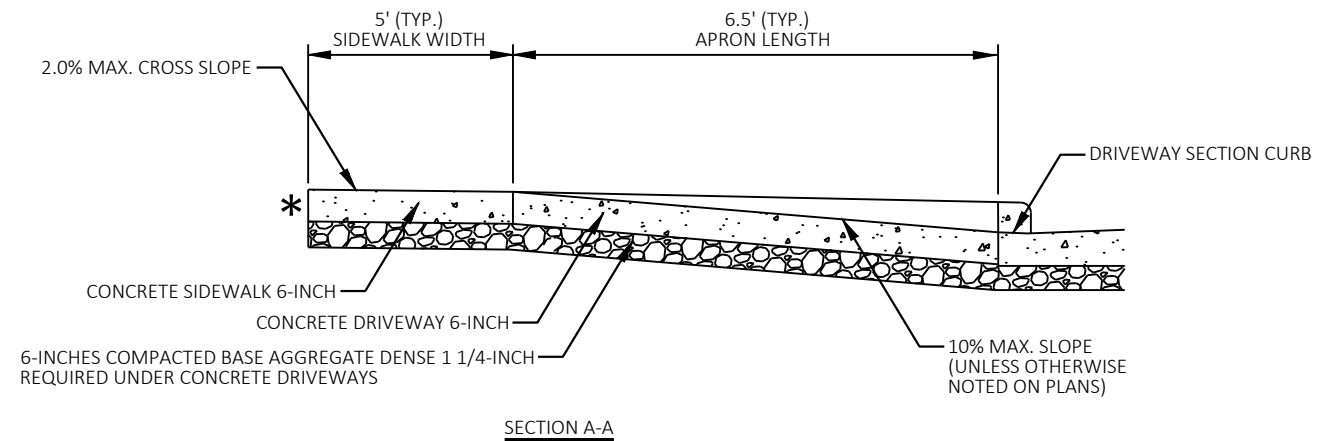
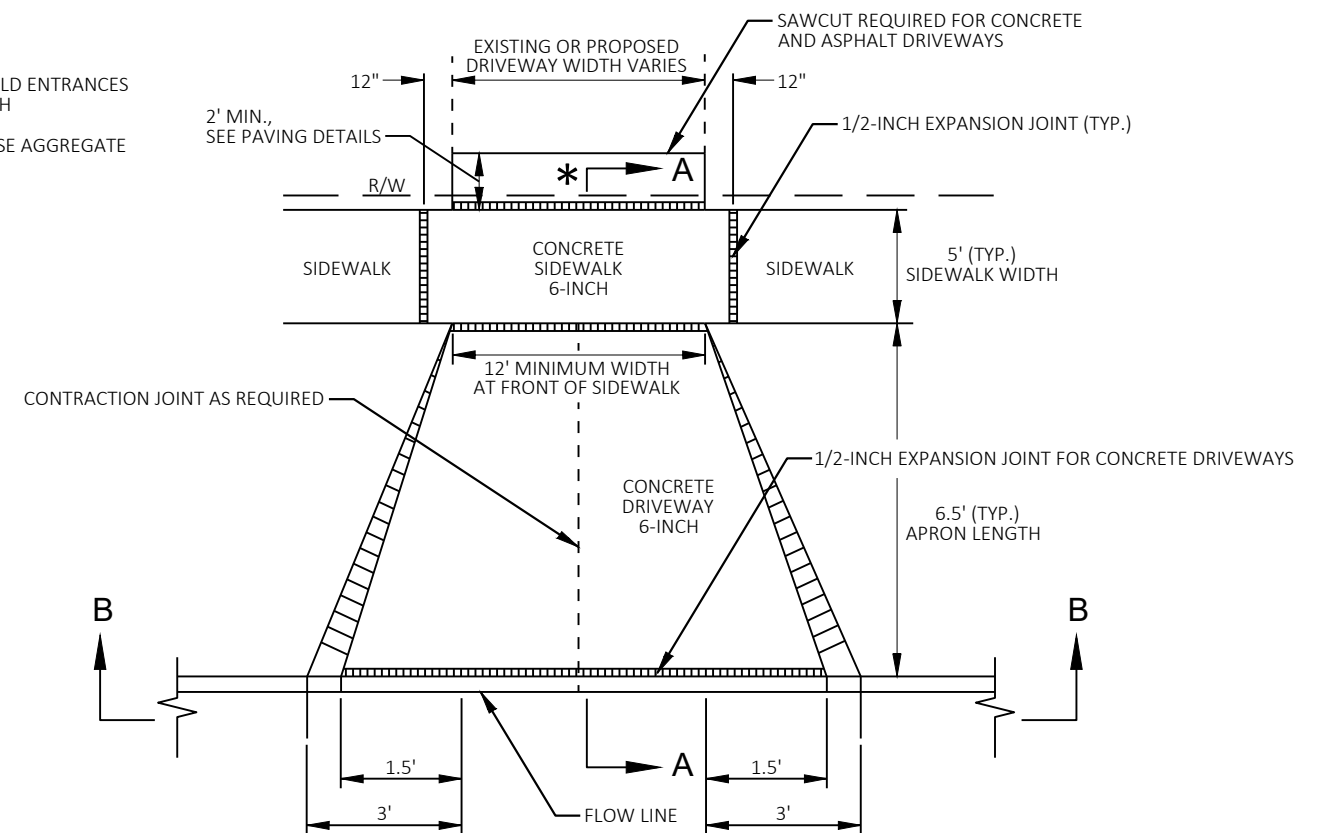
1. THE EXACT LOCATION, WIDTH, AND NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2-INCHES CLEAR.
3. ALL STEP HEIGHTS SHALL BE EQUAL FROM TOP OF LANDING TO SIDEWALK.

STA. 101+88, RT.

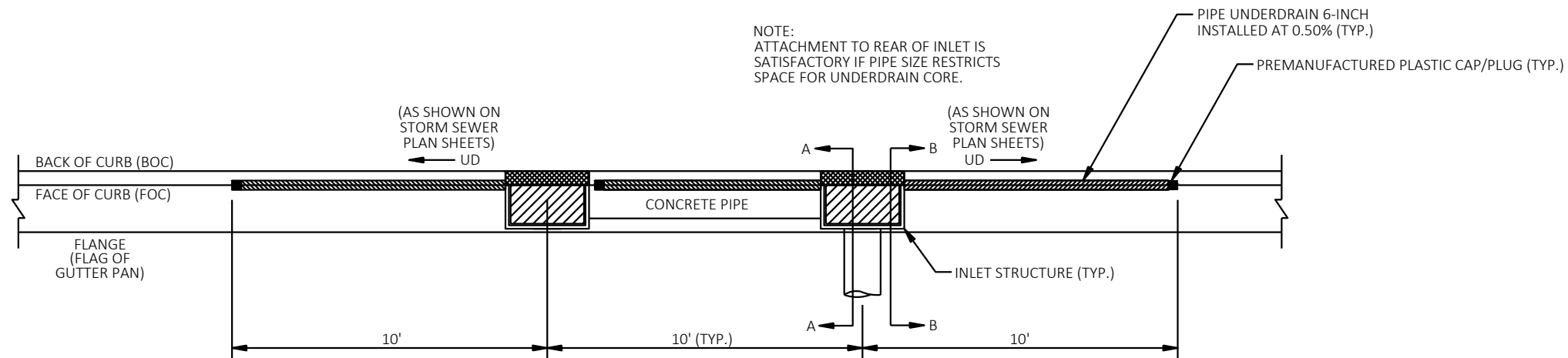
CONCRETE STEPS DETAIL
SCALE: NONE

* NOTES FOR REPLACING DRIVEWAYS:

1. ASPHALT: 3-INCHES ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
2. CONCRETE: CONCRETE DRIVEWAY 6-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
3. AGGREGATE: 6-INCHES BASE AGGREGATE DENSE 3/4-INCH

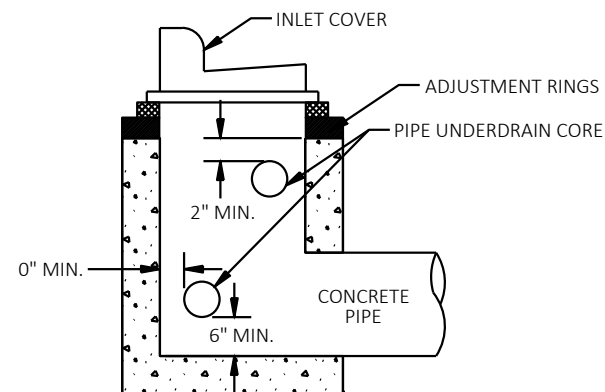
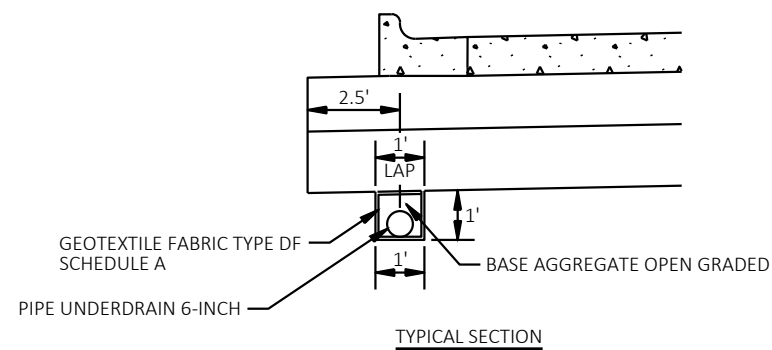


DRIVEWAY DETAIL
SCALE: NONE



NOTE:
WHERE MULTIPLE INLETS ARE USED, PERFORATED PIPE UNDERDRAIN SHALL BE INSTALLED 10-FEET FROM THE OUTERMOST INLETS AT A MINIMUM POSITIVE GRADE OF 0.50%. THE SECTION OF UNDERDRAIN BETWEEN THE INLETS SHALL BE PLACED TIGHT TO THE OUTER INLET, CAPPED WITH A PREMANUFACTURED PLASTIC CAP OR PLUG, AND LAID AS SPECIFIED ABOVE TO THE CENTER INLET.

PLAN VIEW
(DOUBLE INLET CONFIGURATION
AT LOW POINT WITH UNDERDRAIN SHOWN)

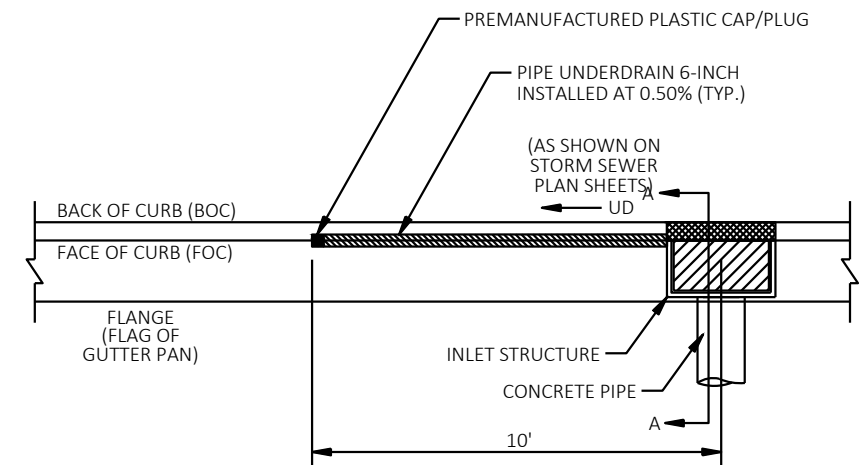


NOTES:

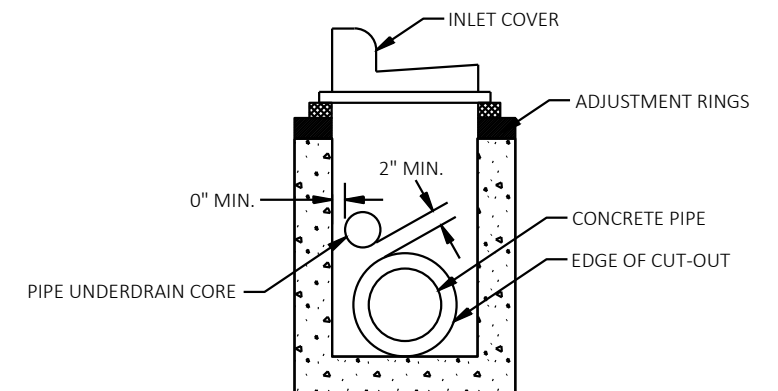
1. BOTTOM OF CORE SHALL BE PLACED A MINIMUM OF 6" ABOVE THE FLOOR OF THE INLET.
2. TOP OF CORE HOLES SHALL BE A MINIMUM OF 2" BELOW THE TOP OF INLET STRUCTURE (BOTTOM OF ADJUSTMENT RINGS).
3. CORE HOLES MAY HAVE 0" CLEARANCE FROM THE INSIDE WALLS OF A STRUCTURE.

SECTION A-A
(TYPICAL INLET CONFIGURATION
WITH UNDERDRAIN CORED INTO
WALL WITH CROSSPIPE ONLY)

PIPE UNDERDRAIN CONNECTION DETAIL
SCALE: NONE



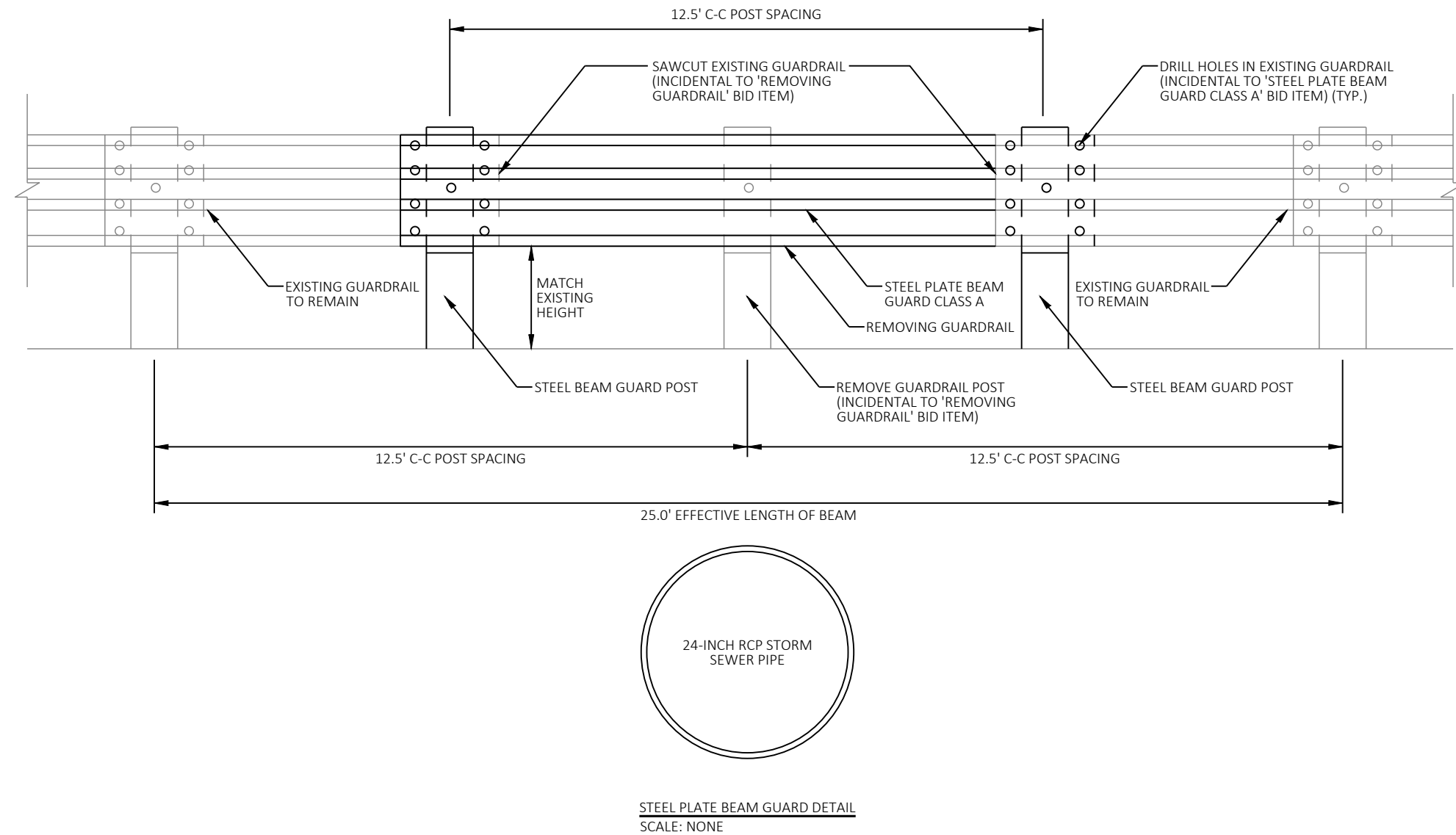
PLAN VIEW
(TYPICAL ON-GRADE INLET CONFIGURATION
WITH UNDERDRAIN SHOWN)

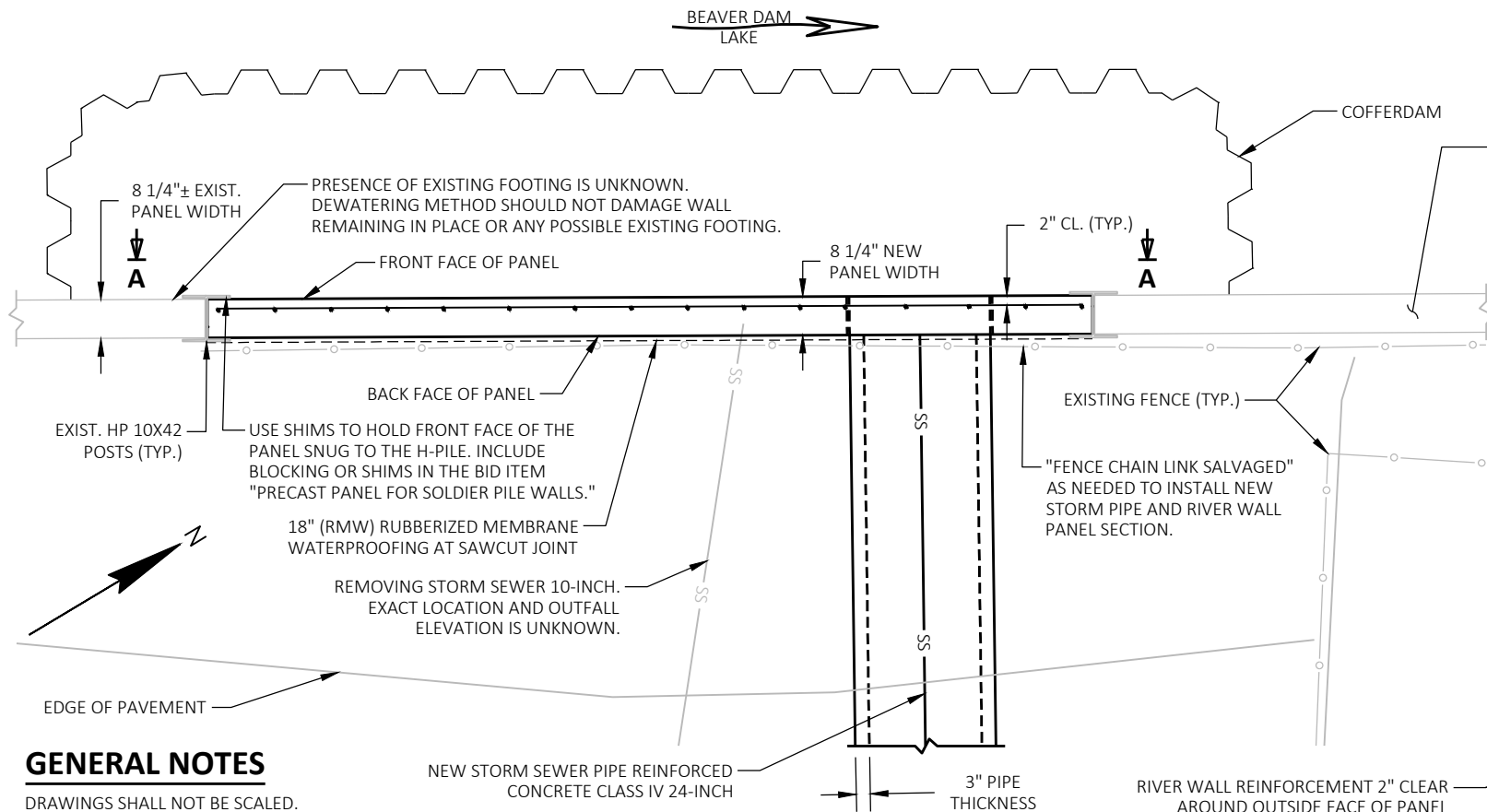


NOTES:

1. CORE HOLES SHALL PROVIDE FOR A MINIMUM OF 2" OF CONCRETE BETWEEN THE CUTOUT FOR A CONCRETE PIPE AND THE EDGE OF THE CORE HOLE..
2. CORE HOLES MAY HAVE 0" CLEARANCE FROM THE INSIDE WALLS OF A STRUCTURE.

SECTION B-B
(TYPICAL INLET WITH
UNDERDRAIN CORED INTO
WALL WITH PIPE)





GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS AND DETAILS SHOWN ON THESE PLANS PERTINENT TO NEW CONSTRUCTION SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING CONSTRUCTION. CONTRACTOR SHALL VERIFY SPACING BETWEEN H-PILES PRIOR TO PRECAST PANEL FABRICATION TO ENSURE THE PANEL WILL FIT PROPERLY, ACCOUNTING FOR ANY DEVIATION FROM PLUMB IN THE H-PILES.

THE EXISTING WALL PANEL SHALL BE REMOVED TO THE LIMITS SHOWN ON THE PLANS UNDER THE BID ITEM "REMOVING ANCILLARY STRUCTURE". THE EXISTING STEEL POSTS ARE TO REMAIN IN PLACE. ANY DAMAGE TO EXISTING STEEL POSTS OR REMAINING CONCRETE PANEL SHALL BE REPAIRED AT NO EXTRA COST TO THE PROJECT.

THERE IS AN EXISTING 10" DIA. STORM SEWER OUTFALL IN THE EXISTING CONCRETE PANEL AT AN UNKNOWN LOCATION AND ELEVATION. IF THE EXISTING OUTFALL IS IN THE PORTION OF THE EXISTING WALL PANEL TO REMAIN, FILL EXISTING OPENING WITH CONCRETE MASONRY AND INCLUDE IN THE BID ITEM "PRECAST PANELS FOR SOLDIER PILE WALLS."

DEPTH TO BOTTOM OF EXISTING WALL PANEL AND PRESENCE OF EXISTING FOOTING IS UNKNOWN. THE CONTRACTOR MAY REMOVE AND REPLACE THE ENTIRE EXISTING WALL PANEL IN LIEU OF SAWCUTTING AND REMOVING TOP PORTION OF WALL WITH ACCEPTANCE OF CALCULATIONS AND SHOP DRAWINGS BY THE ENGINEER. THE PRECAST PANEL SHALL CONFORM TO DETAILS IN CHAPTER 14 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST PANEL SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEM "PRECAST PANEL FOR SOLDIER PILE WALLS."

DEWATERING IS REQUIRED TO COMPLETE THE WORK. INCLUDE DEWATERING IN THE "COFFERDAM" BID ITEM.

ANY EXCAVATION OF SOIL ON THE BACK FACE OF THE WALL NECESSARY FOR REMOVAL SHALL BE BID UNDER "EXCAVATION FOR STRUCTURES" AND BACKFILLED UNDER "BACKFILL STRUCTURE TYPE A."

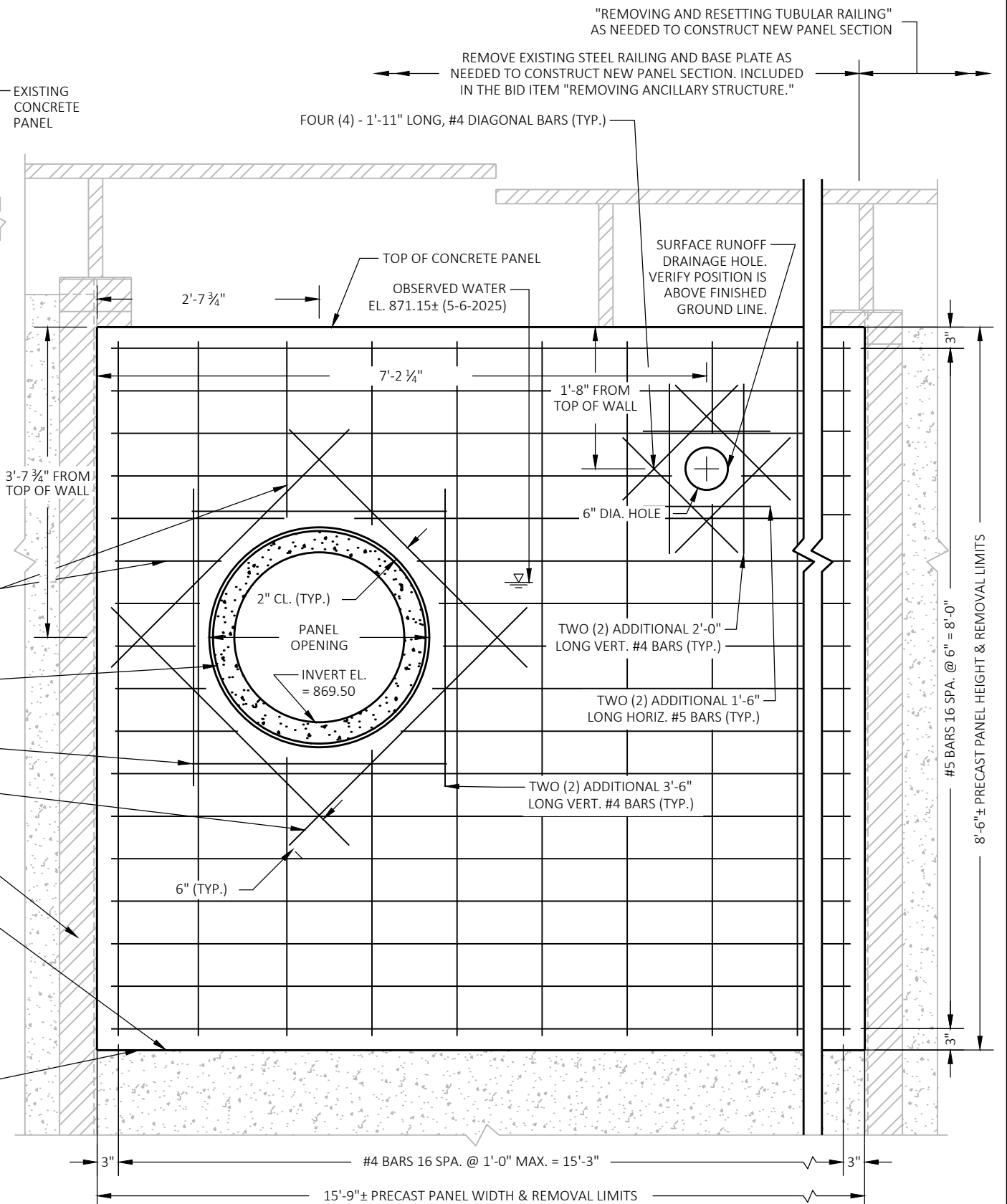
THE BID ITEM "PRECAST PANELS FOR SOLDIER PILE WALLS" INCLUDES ALL LABOR AND MATERIALS ASSOCIATED WITH THE NEW PRECAST CONCRETE PANEL SECTION.

THE PANEL OPENING FOR THE 24-INCH STORM SEWER PIPE SHALL BE SIZED TO APPROPRIATELY FIT THE NEW STORM SEWER OUTFALL. SEAL GAPS AROUND PIPE WITH CONCRETE MASONRY AND INCLUDE IN THE BID ITEM "PRECAST PANELS FOR SOLDIER PILE WALLS."

PLAN
(RIVER WALL & STORM PIPE LAYOUT)

FULL DEPTH SAWCUT EXISTING PANEL SECTION AT THE LIMITS SHOWN. REMOVE TOP PORTION ABOVE SAWCUT. BREAK OUT CONCRETE AND TORCH THE EXISTING PANEL REINFORCEMENT 1" BELOW THE SAWCUT. COAT EXPOSED BAR STEEL WITH EPOXY IN ACCORDANCE WITH SUBSECTION 505.2.4.2 OF THE STANDARD SPECIFICATIONS. USE CONCRETE SURFACE REPAIR TO PATCH THE 1" REMOVAL AREAS AROUND REINFORCEMENT, AND PROVIDE SMOOTH SURFACE FULL THICKNESS OF PANEL. PAYMENT FOR ALL MATERIALS AND WORK IS INCIDENTAL TO THE BID ITEM "REMOVING ANCILLARY STRUCTURE."

18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED OVER THE BACK FACE JOINT BETWEEN THE NEW AND EXISTING PANEL SECTIONS.



VIEW A-A PRECAST PANEL ELEVATION
(LOOKING SOUTHEAST AT FRONT FACE)

GENERAL SANITARY SEWER & WATER NOTES:

1. ALL PROPOSED SANITARY SEWER AND WATER UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THIS CONSTRUCTION PLAN, THE PROJECT SPECIFICATIONS, THE LATEST EDITION OF THE STANDARD UTILITIES AND WIDNR SDWLP AND CWFP FUNDING SPECIFICATIONS FOR WISDOT LET PROJECTS, CITY OF BEAVER DAM, AND ANY CONDITIONS OF APPROVAL.

2. ALL PROPOSED SANITARY SEWER LATERALS SHALL BE SDR 35 PVC PIPING WITH A PIPE SIZE AS NOTED ON THE PLANS OR AS DIRECTED BY THE CITY STAFF OR FIELD ENGINEER. THE MINIMUM SLOPE FOR A SANITARY LATERAL IS 1.04%.

3. THE SANITARY LATERAL LOCATIONS SHOWN ON PLAN ARE PER THE TELEVISION REPORTS FURNISHED BY THE CITY. NOT ALL LOCATIONS MAY BE ACTIVE. THE CONTRACTOR SHALL DYE TEST THE LATERALS TO VERIFY WHICH ONES ARE ACTIVE AND RECONNECT ONLY THE ACTIVE LATERALS. INVESTIGATION AND DYE TESTING SHALL BE INCIDENTAL TO THE SANITARY SEWER CONSTRUCTION. THE SIZE/MATERIAL OF THE EXISTING SANITARY LATERALS IS UNKNOWN. THE CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF BOTH 4" AND 6" DIAMETER CONNECTION FITTINGS AND PIPE ON HAND TO MAKE EQUIVALENT SIZE REPLACEMENTS TO A POINT NEAR THE R/W LINE AS DIRECTED BY THE CITY AND/OR FIELD ENGINEER.

4. THE CONTRACTOR SHALL MAINTAIN ELECTRICAL CONTINUITY ALONG ALL PROPOSED WATERMAIN PIPING AS PER SPECIFICATIONS (INCIDENTAL TO THE SPECIFIC PIPING). IF ANY CURB STOP BOX FALLS WITHIN PROPOSED PAVEMENT, THE CONTRACTOR SHALL INSTALL A VALVE BOX TOP SECTION AROUND SAID BOX PRIOR TO PAVEMENT RESTORATION SO THAT PAVEMENT DOES NOT ADHERE TO THE BOX (INCIDENTAL TO CONSTRUCTION).

5. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION AS MEASURED BY THE FIELD ENGINEER AND THE CONTRACTOR SHALL BE PAID ACCORDING TO THE LENGTH OF PIPING INSTALLED.

6. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL WATER SERVICES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL REPLACE ALL WATER SERVICES FROM THE MAIN TO THE RIGHT-OF-WAY WITH 1" HDPE PIPING UNLESS NOTED DIFFERENTLY ON THE PLAN OR DIRECTED OTHERWISE BY THE CITY STAFF OR FIELD ENGINEER.

7. TRACER WIRE SHALL BE INSTALLED ALONG ALL NEW WATER MAIN AND WATER SERVICES AND ALONG ALL NEW SEWER MAIN AND LATERALS (INCIDENTAL TO THE SPECIFIC PIPING). TRACER WIRE SHALL BE SURFACED AT ALL HYDRANTS AND CURB STOPS FOR WATERMAIN AND SURFACED AT MANHOLES AND TERMINAL BOXES FOR SANITARY SEWER.

8. ALL BENDS, FITTINGS, AND OTHER MATERIALS NOT SPECIFICALLY ITEMIZED ON THE BID BUT NECESSARY TO MAKE A WATERTIGHT CONNECTION TO THE EXISTING MAINLINE AS WELL AS TO PROVIDE A COMPLETE WORKING SYSTEM SHALL BE INCIDENTAL TO CONSTRUCTION. ALL SAWCUTTING NECESSARY FOR UTILITY INSTALLATION SHALL BE INCIDENTAL TO CONSTRUCTION. ALL EXISTING SANITARY SEWER AND WATER PIPE ABANDONMENT SHALL BE INCIDENTAL TO THE ABANDONMENT/REMOVAL BID ITEMS. REMOVAL OF EX. MANHOLES, HYDRANTS AND VALVE BOXES THAT ARE NO LONGER IN USE SHALL BE PAID FOR UNDER THEIR OWN RESPECTIVE BID ITEMS.

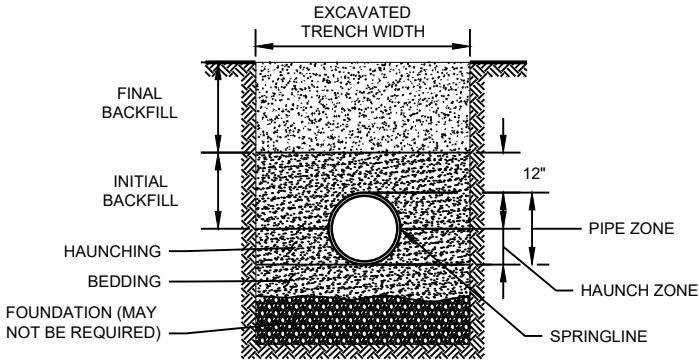
9. THERE ARE SEVERAL AREAS WHERE THE EXISTING PRIVATE UTILITIES (ELECTRIC, TELEPHONE, GAS, ETC.) CROSS OR ARE IN CLOSE PROXIMITY TO THE PROPOSED PUBLIC UTILITY IMPROVEMENTS.

10. UNLESS PROHIBITED BY FIELD CONDITIONS, THE MINIMUM SEPARATION BETWEEN THE SANITARY, WATER, AND STORM MAINS IS 8 FEET. MINIMUM VERTICAL SEPARATION DISTANCE WHERE WATER MAIN CROSSES OVER SEWERS IS 6 INCHES. MINIMUM VERTICAL SEPARATION DISTANCE WHERE WATER MAIN CROSSES UNDER SEWERS IS 18 INCHES. FINAL ELEVATIONS OF THE UTILITY PIPING WILL BE DETERMINED DURING CONSTRUCTION BY THE FIELD ENGINEER AND CITY STAFF.

11. A 7.0 FEET DEPTH OF COVER OVER ALL NEWLY INSTALLED WATER UTILITY PIPING IS DESIRED FOR THIS PROJECT. THE CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF COVER OF 5.0 FEET UNLESS DIRECTED OTHERWISE BY THE CITY STAFF. ALL NEWLY INSTALLED WATER UTILITY PIPING WITH COVER LESS THAN 7.0 FEET SHALL BE INSULATED ACCORDING TO THE SPECIFICATIONS AND INSULATION DETAIL. INSULATION SHALL ALSO BE INSTALLED AT ALL LOCATIONS WHERE STORM SEWER CROSSES THE WATER UTILITY PIPING.

12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (SHORING, BRACING, ETC.) AND SHALL CAREFULLY INSTALL THE NEW SANITARY SEWER AND WATER IMPROVEMENTS SO AS NOT TO DISTURB ANY EXISTING PRIVATE UTILITY STRUCTURES OR PIPING AS WELL AS TO PREVENT ANY DISTURBANCE TO EXISTING SITE FEATURES THAT ARE TO REMAIN UNDISTURBED. ANY DISTURBANCE OR DAMAGE (AS DETERMINED BY THE OWNER) SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

13. THE NEW WATER MAIN SHALL BE INSTALLED AND TESTED WHILE THE EXISTING WATER MAIN IS STILL IN OPERATION TO KEEP WATER SERVICE TO RESIDENTS AND BUSINESSES FOR AS LONG AS POSSIBLE. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AND/OR FIELD ENGINEER REGARDING DEFLECTING WATER MAIN AND WATER SERVICE PIPING TO AVOID CONFLICTS WITH THE PROP. SANITARY & STORM IMPROVEMENTS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF WATER CONNECTION POINTS TO THE EXISTING WATER SYSTEM AND SHALL NOTIFY THE ENGINEER OF POSSIBLE HIGH POINTS IN THE WATER MAIN WITHOUT AIR RELEASE.

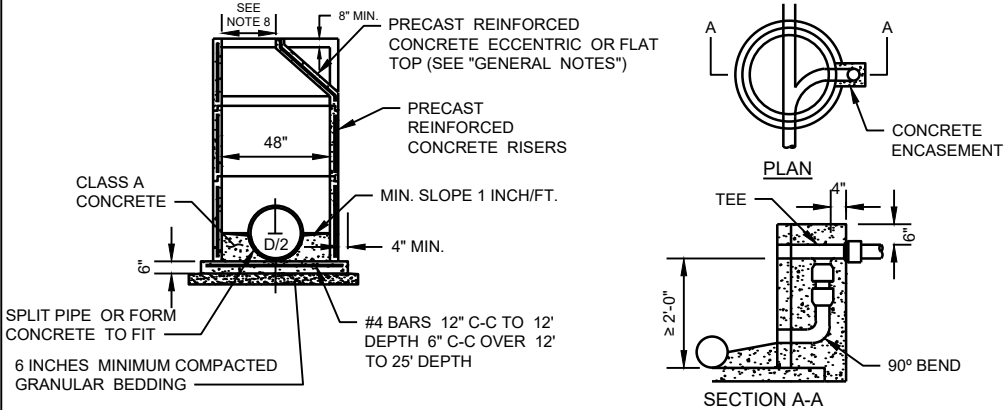


GENERAL NOTES:

- 1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
- 2. CLASS II EMBEDMENT MATERIAL SHALL BE CLEAN, COARSE-GRAINED SOILS WITH LITTLE TO NO FINES. NO PARTICLES LARGER THAN 1 1/2 -INCHES SHALL BE USED IN THE PIPE EMBEDMENT.
- 3. WHERE HYDRAULIC GRADIENT EXISTS USE A WELL-GRADED MIXTURE TO MINIMIZE MIGRATION OF FINES FROM ADJACENT SOIL.
- 4. CLASS II MATERIAL IS SUITABLE AS A FOUNDATION AND FOR REPLACING OVER- EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS.
- 5. INSTALL AND COMPACT BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS.)
- 6. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
- 7. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN.
- 8. EMBEDMENT COMPACTION:
MINIMUM DENSITY 85% STANDARD PROCTOR. USE HAND TAMPERS OR VIBRATORY COMPACTORS.
- 10. EMBEDMENT INCLUDES BEDDING, HAUNCHING, AND INITIAL BACKFILL.

CLASS II - FLEXIBLE PIPE EMBEDMENT DETAIL

NO SCALE

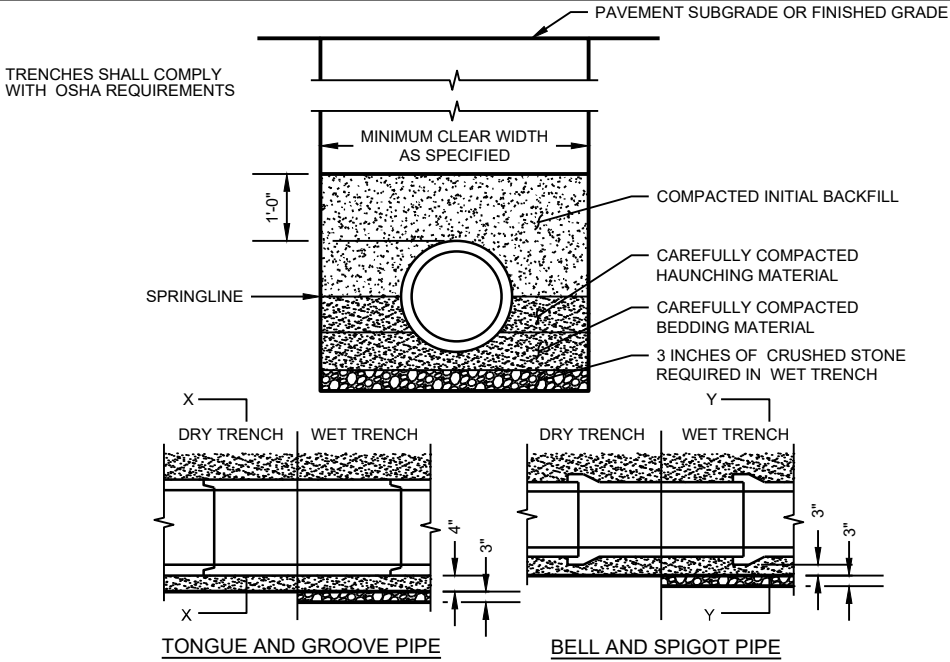


GENERAL NOTES:

- 1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING AND THE APPLICABLE SPECIAL CONDITIONS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.
- 2. DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.
- 3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
- 4. ECCENTRIC CONE TOPS SHALL BE USED ON ALL STRUCTURES 5 FEET OR GREATER IN DEPTH, AND FLAT TOPS SHALL BE USED ONLY ON STRUCTURES LESS THAN 5 FEET IN DEPTH, UNLESS DIRECTED BY THE ENGINEER.
- 5. PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.
- 6. ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.
- 7. DROP CONNECTIONS SHALL BE USED WHEN THE PIPE INVERT IS MORE THAN 2 FEET ABOVE THE MANHOLE INVERT. PRECAST STRUCTURE MANWAY CLEAR OPENING SHALL MATCH CASTING - REFER TO STANDARD SPECIFICATION
- 8. DIVISION 33 AND THE APPLICABLE SPECIAL CONDITIONS.
- OPENING SHALL BE 24" FOR R-1550 CASTINGS (SANITARY MH COVER TYPE J-SPECIAL)
- 9. DROP CONNECTION AND ASSEMBLY SHALL BE CONSTRUCTED WITH DUCTILE IRON PIPE.

SANITARY MANHOLE (48-INCH) DETAIL

NO SCALE

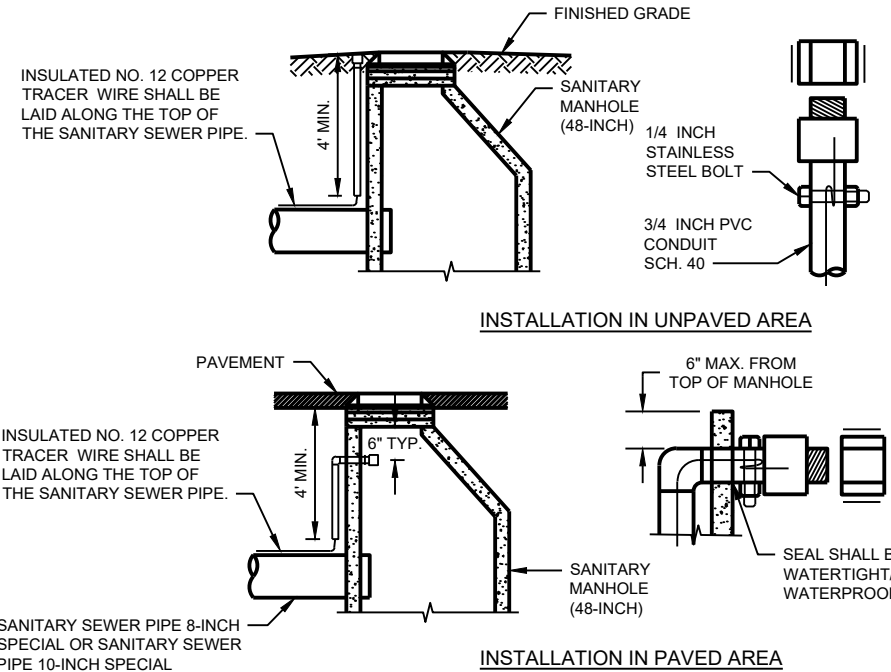


GENERAL NOTES:

- 1. BEDDING AND HAUNCHING MATERIAL SHALL BE WELL-GRADED 3/4 TO 1/4 INCH CRUSHED STONE OR OTHER NON-COHESIVE MATERIAL NOT SUBJECT TO MIGRATION AND FREE OF DEBRIS, ORGANIC MATERIAL, AND LARGE STONES.
- 2. BEDDING MATERIAL TO BE PLACED BEFORE SETTING PIPE, 4 INCH MINIMUM UNDER BARREL WITH 3 INCH MINIMUM UNDER BELL.
- 3. INITIAL BACKFILL SHALL BE DENSELY COMPACTED, NON-COHESIVE FINELY DIVIDED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND LARGE STONES.
- 4. IN ROCK OR OTHER UNCOMPRESSIBLE MATERIALS, THE TRENCH SHALL BE OVEREXCAVATED A MINIMUM OF 6-INCHES AND REFILLED WITH GRANULAR MATERIAL.

CLASS "B" EMBEDMENT FOR RIGID PIPE DETAIL

NO SCALE

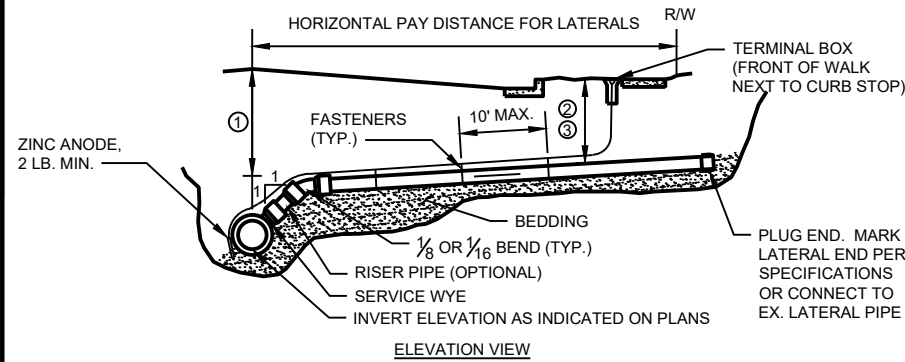


GENERAL NOTES:

- 1. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE.
- 2. A THREADED, FEMALE PVC SCHEDULE 40 PLUG AND MALE COUPLING GLUED TO 3/4 INCH SCHEDULE 40 SHALL BE INSTALLED IN OR ADJACENT TO THE VALVE VAULT AND MANHOLE.
- 3. WIRE PIGTAIL SHALL BE WRAPPED AROUND BOLT AND READILY ACCESSIBLE, WITH SUFFICIENT LENGTH FOR EASY CONNECTION.

TRACER WIRE INSTALLATION FOR PVC SANITARY SEWER

NO SCALE



NOTES FOR LATERAL INSTALLATION:

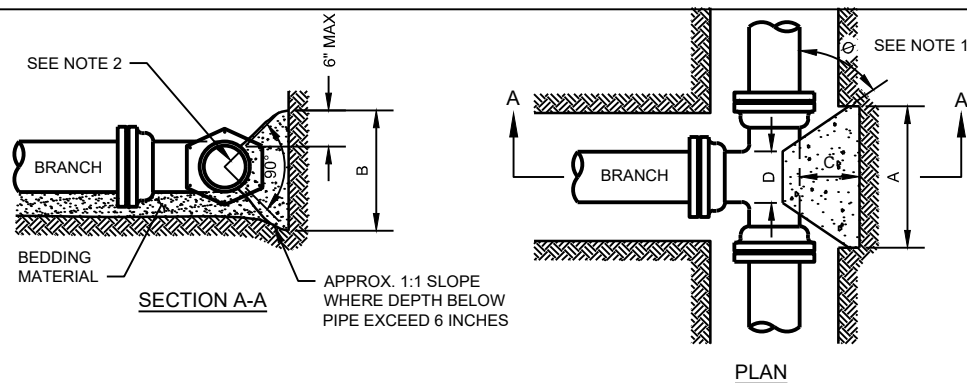
1. MINIMUM DEPTH OF COVER UNDER ROADWAY = 7 FEET.
2. MINIMUM DEPTH OF COVER UNDER GRASS AREAS = 5 1/2 FEET.
3. MINIMUM DEPTH OF COVER UNDER GRASS AREAS WITH FROST PROTECTION = 3 FEET 6 INCHES.
4. LATERAL SLOPES SHALL BE 1/8 INCH PER FOOT MINIMUM AND 1/2 INCH PER FOOT MAXIMUM.

NOTES FOR TRACER WIRE INSTALLATION:

1. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE.
2. NO. 12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED WITH THE NON-CONDUCTIVE SERVICE. PIPE TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER MAIN OR AS DETERMINED BY THE ENGINEER OR OWNER. TRACER WIRE INSTALLATION REQUIRES ACCESS POINTS AT LEAST EVERY 300 FEET.
3. TRACER WIRE SHALL BE RESTRAINED BY CABLE-TIES, TAPE, OR BY NON-CORROSIVE FASTENER APPROVED BY THE OWNER, INSTALLED EVERY 10 FEET ALONG SERVICE. DO NOT WRAP TRACER WIRE AROUND THE PIPE.
4. TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATED IN A FLUSH MOUNTED TERMINAL BOX WITH A CAST IRON LOCKABLE TOP. SPLICES IN TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT OR COMPRESSION-TYPE CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION. TERMINAL BOX SHALL BE VALVCO, OR APPROVED EQUAL.

SANITARY SEWER LATERAL DETAIL

NO SCALE



NOTES:

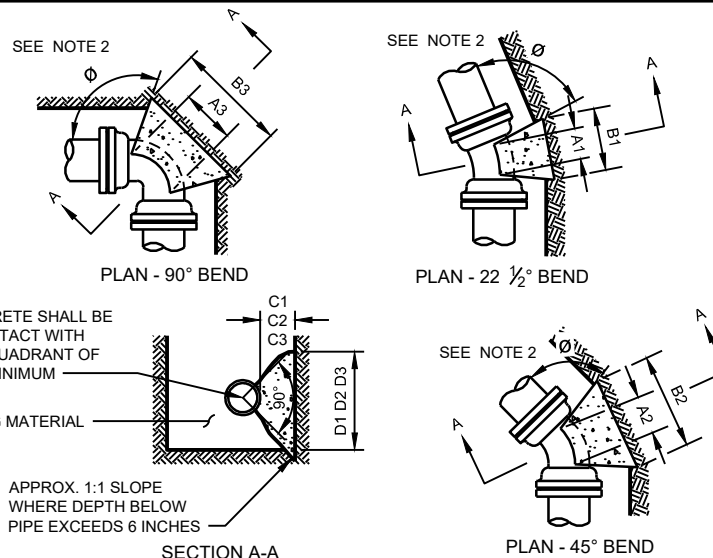
1. DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ GREATER THAN OR EQUAL TO 45°.
2. CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AT A MINIMUM.
3. DIMENSION 'D' SHOULD BE AS LARGE AS POSSIBLE BUT CONCRETE SHOULD NOT INTERFERE WITH MECHANICAL JOINTS.
4. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 PSI. INFORM THE ENGINEER IF ON-SITE SOIL DOES NOT MEET THIS CONDITION OR PRESSURES EXCEED 150 PSI.
5. BUTTRESS TO BE PLACED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
6. CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
7. ALL POURED BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
8. IN ADDITION TO BUTTRESSES, ALL JOINTS SURROUNDING TEES SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS.

BUTTRESS DIMENSIONS				
DIA.	A	B	C	D
6"	1'-3"	1'-0"		
8"	1'-6"	1'-4"		
10"	1'-10"	1'-8"		
12"	2'-3"	2'-0"		
16"	3'-2"	2'-6"		
20"	4'-0"	3'-0"		
24"	5'-3"	3'-4"		

DIA. = BRANCH DIAMETER

BUTTRESS FOR TEES DETAIL

NO SCALE



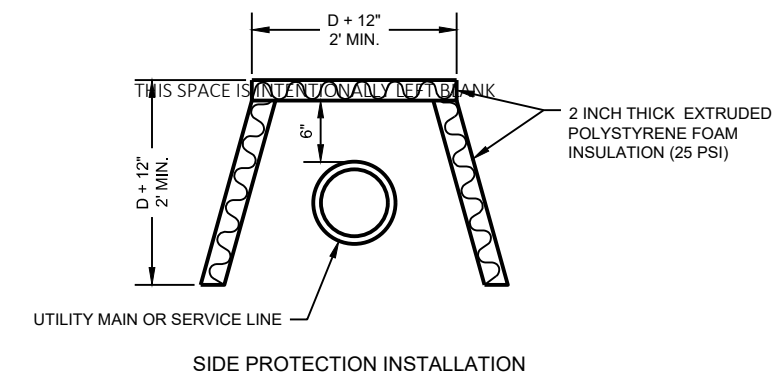
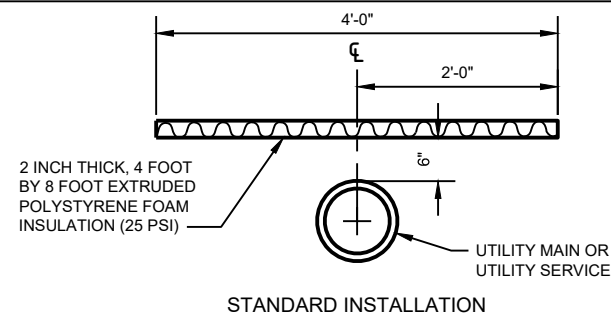
NOTES:

1. DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FT. INFORM THE ENGINEER IF PRESSURES EXCEED 150 PSI, OR ON-SITE SOIL DOES NOT MEET THIS CONDITION.
2. DIMENSION C1 C2 C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
3. DIMENSION A1 A2 A3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECHANICAL JOINT.
4. BUTTRESS TO BE POURED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
5. ALL BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
6. CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
7. IN ADDITION TO BUTTRESS, ALL JOINTS SURROUNDING BENDS SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS.

BUTTRESS FOR BENDS DETAIL

NO SCALE

PIPE SIZE	22 1/2° BENDS		45° BENDS		90° BENDS	
	B1	D1	B2	D2	B3	D3
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
10"	1'-2"	1'-2"	1'-7"	1'-7"	2'-3"	1'-10"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"
20"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"

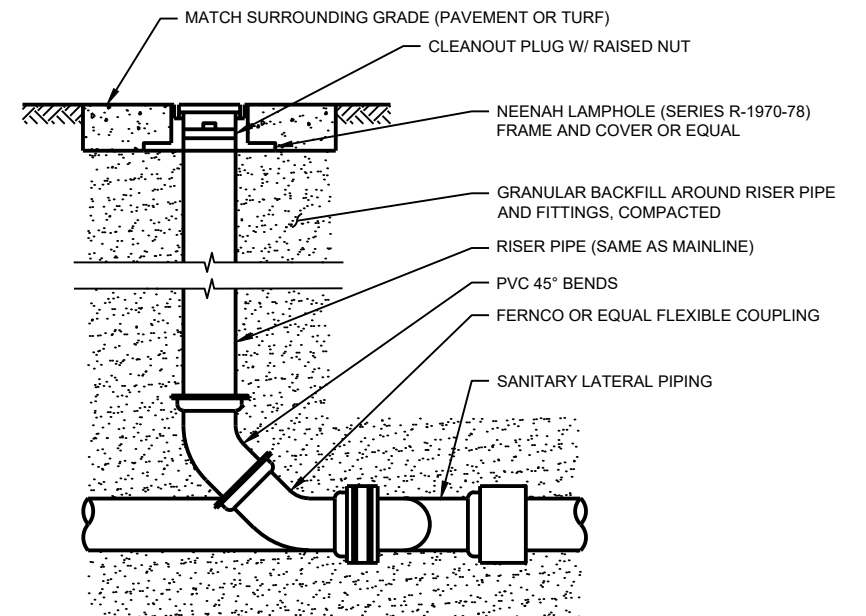
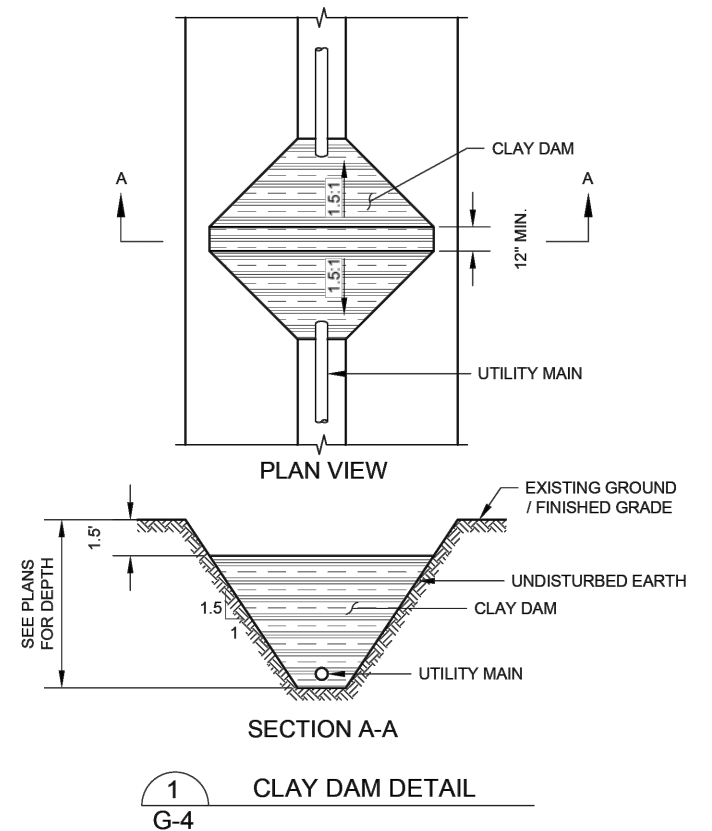


GENERAL NOTES:

1. THE SIDE PROTECTION INSTALLATION SHALL BE USED WHERE FROST WILL PENETRATE BELOW THE PIPE INVERT.

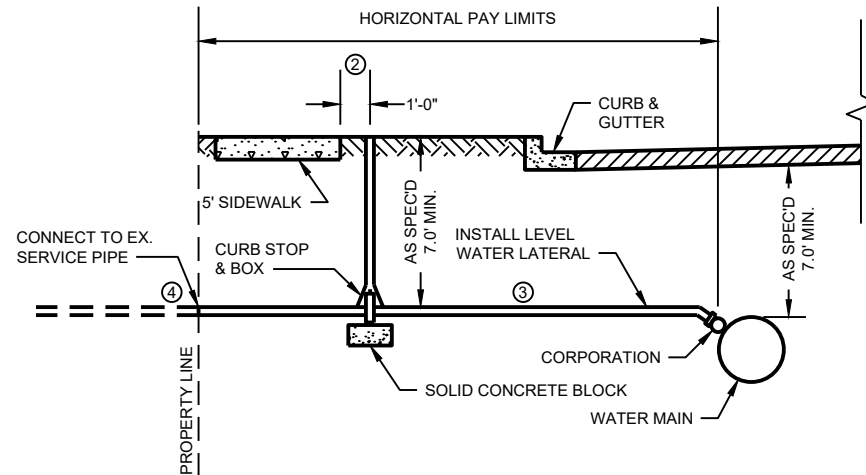
PIPE INSULATION DETAIL

NO SCALE



SANITARY SEWER CLEANOUT

NO SCALE

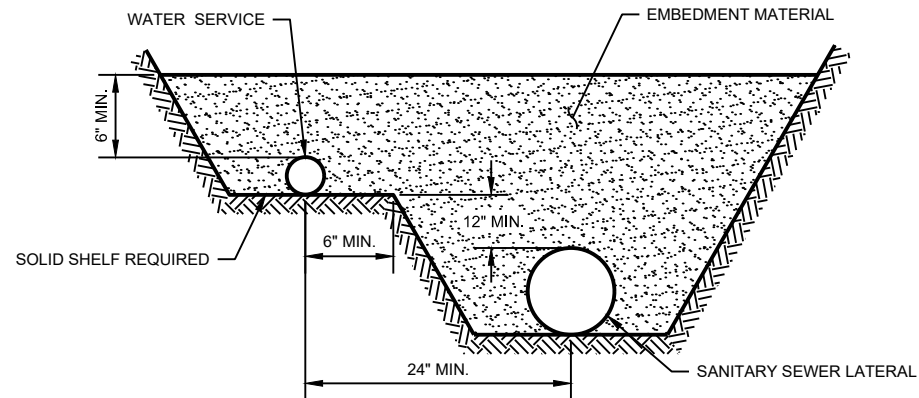


GENERAL NOTES:

1. SEE PLANS AND SPECIFICATIONS FOR SIZE AND TYPE OF CURB STOP AND BOX CORPORATION AND SERVICE LINE.
2. COMMUNITY STANDARDS SHALL SUPERSEDE THE DIMENSIONS FROM THE PROPERTY LINE.
3. PROVIDE TRACER WIRE PER SPECIFICATIONS.
4. MAINTAIN MIN. DEPTH OF COVER ALONG THE NEW WATER SERVICE PIPING. IF THE CONNECTION POINT TO THE EX. WATER SERVICE PIPING (AT THE STREET R/W) IS AT LESS THAN THE MINIMUM DEPTH OF COVER, THEN DEFLECT THE NEW PIPING UP TO MATCH AT THE LAST POSSIBLE POINT AND INSULATE AS SPECIFIED.

WATER SERVICE DETAIL

NO SCALE



GENERAL NOTES:

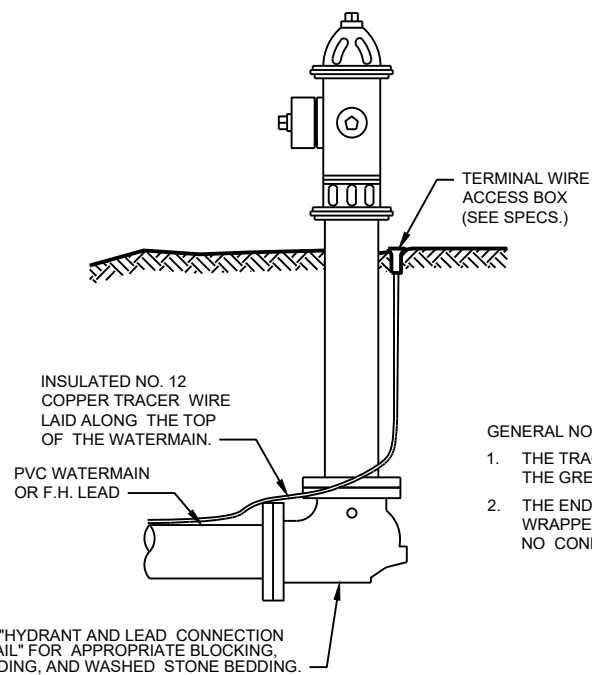
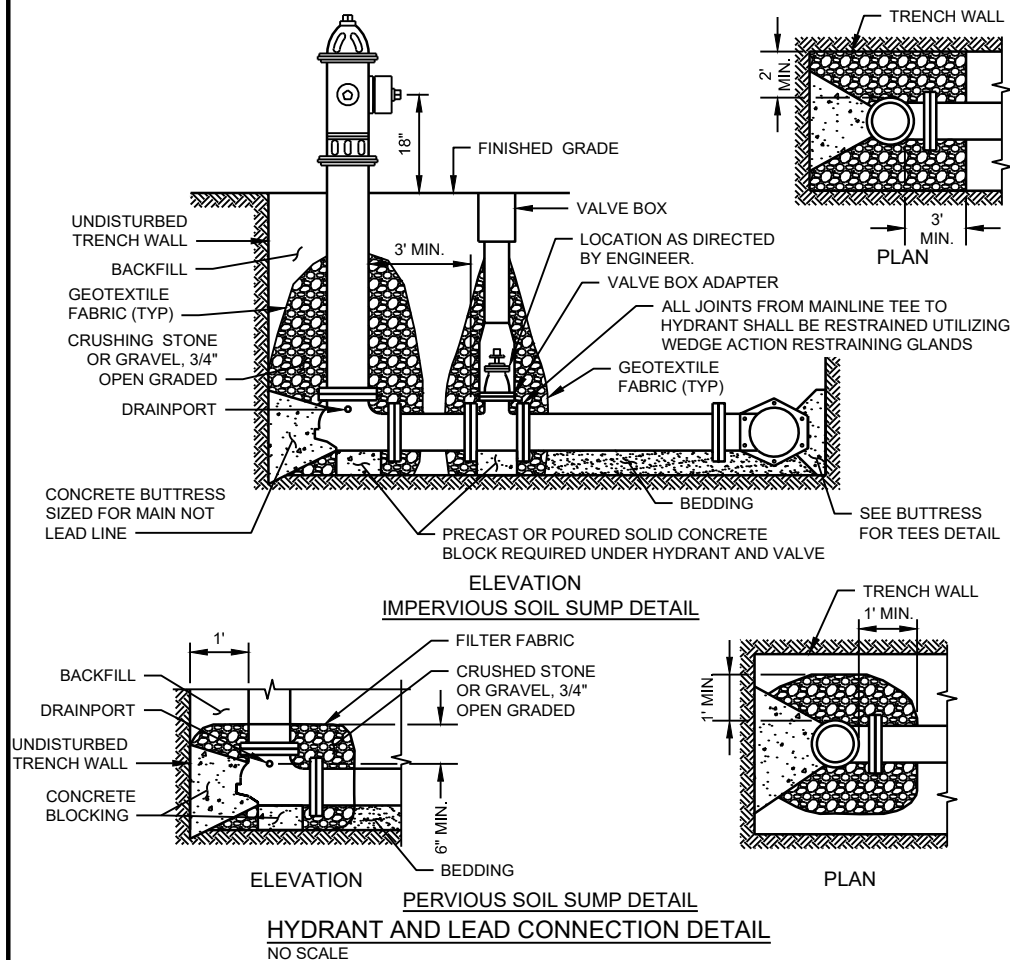
1. WATER SERVICES 2 INCHES IN DIAMETER AND LESS SHALL BE LAID WITH A CLEAR HORIZONTAL SEPARATION NOT LESS THAN 2 FEET FROM THE SANITARY LATERAL.

WATER SERVICE AND SANITARY SEWER LATERAL DETAIL

NO SCALE

RESTRAINED/TIED PIPE LENGTH CHART						
MIN LENGTH REQUIRING RESTRAINT IN FEET						
	6"	8"	10"	12"	16"	24"
FITTING TYPE						
11.25° BEND	10	10	10	10	10	10
22.5° BEND	10	10	10	10	11	15
45° BEND	10	15	15	20	25	30
90° BEND	25	30	35	40	55	75
TEE/CROSS	15	25	35	45	65	95
STUB OR PLUG	30	35	45	50	95	100
REDUCER	0	20	35	50	105	125
VERTICAL BEND (45°)	20	30	35	40	50	75

THE ABOVE LENGTHS (GIVEN IN FEET) REPRESENT THE MINIMUM LENGTH OF PIPE TO BE TIED TOGETHER IN EACH REQUIRED DIRECTION FROM THE FITTING DESCRIBED

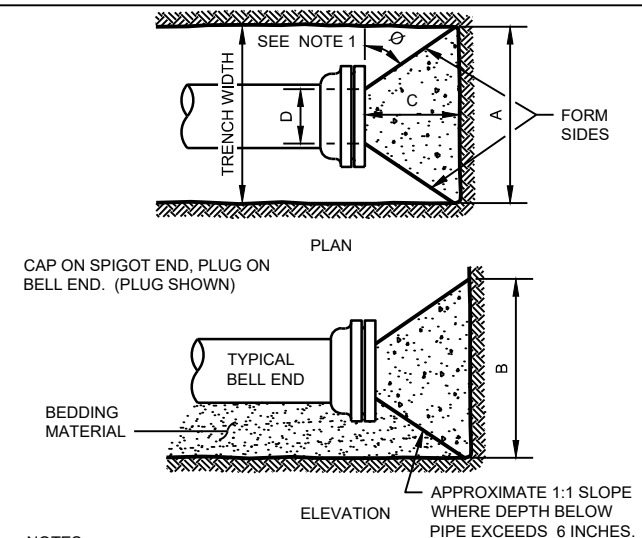


GENERAL NOTES:

1. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE.
2. THE END(S) OF THE TRACER WIRE SHALL BE WRAPPED AROUND THE LAST FITTING INSTALLED - NO CONDUCTIVE BOND SHALL BE MADE.

TRACER WIRE INSTALLATION FOR PVC WATERMAIN DETAIL

NO SCALE



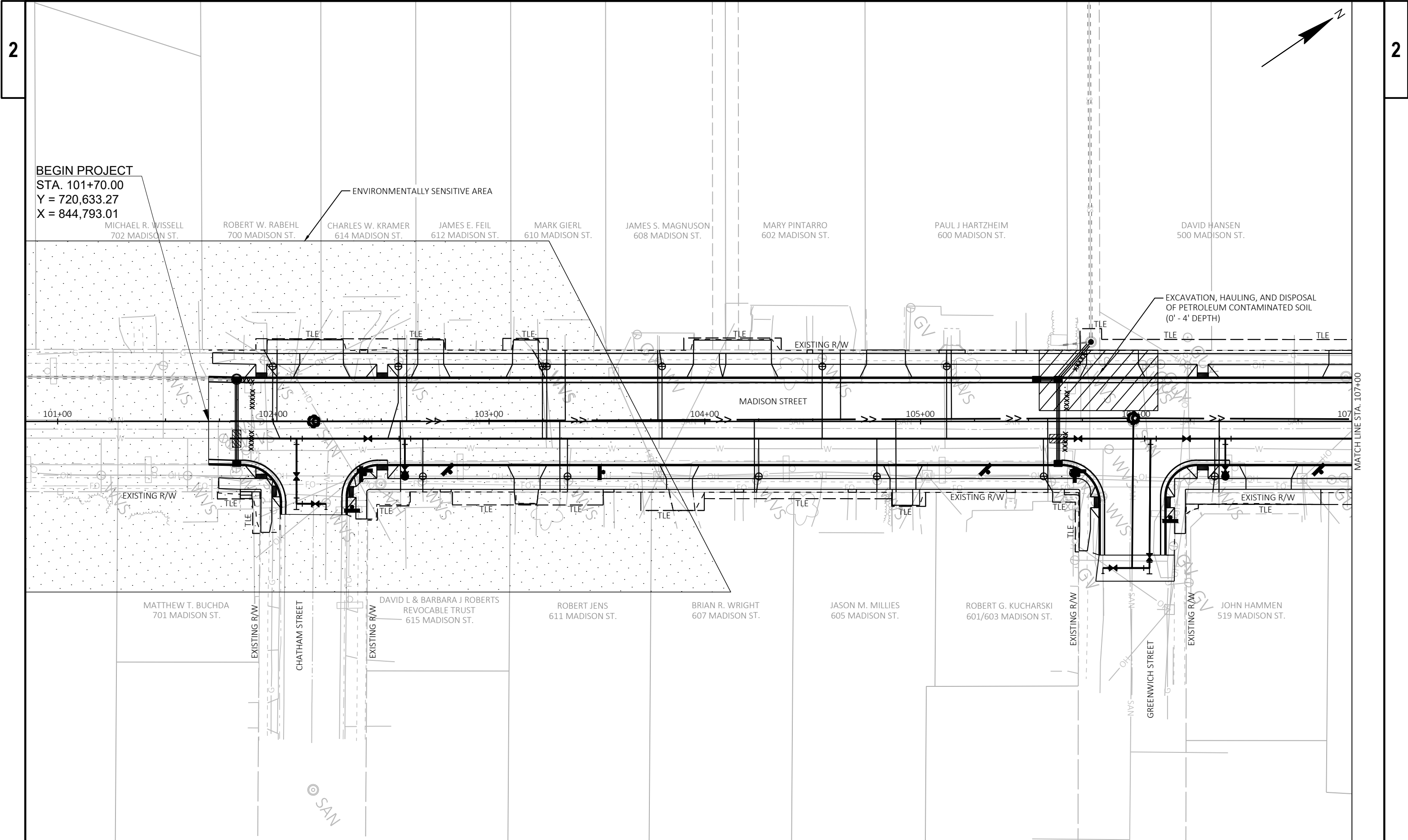
BUTTRESS DIMENSIONS				
DIA.	A	B	C	D
6"	1'-6"	1'-2"	SEE NOTE NO. 1	SEE NOTE NO. 2
8"	2'-0"	1'-4"		
12"	2'-5"	1'-10"		
16"	3'-4"	2'-4"		
20"	4'-3"	2'-10"		
24"	5'-2"	3'-4"	SEE NOTE NO. 1	SEE NOTE NO. 2
30"	6'-9"	4'-0"		

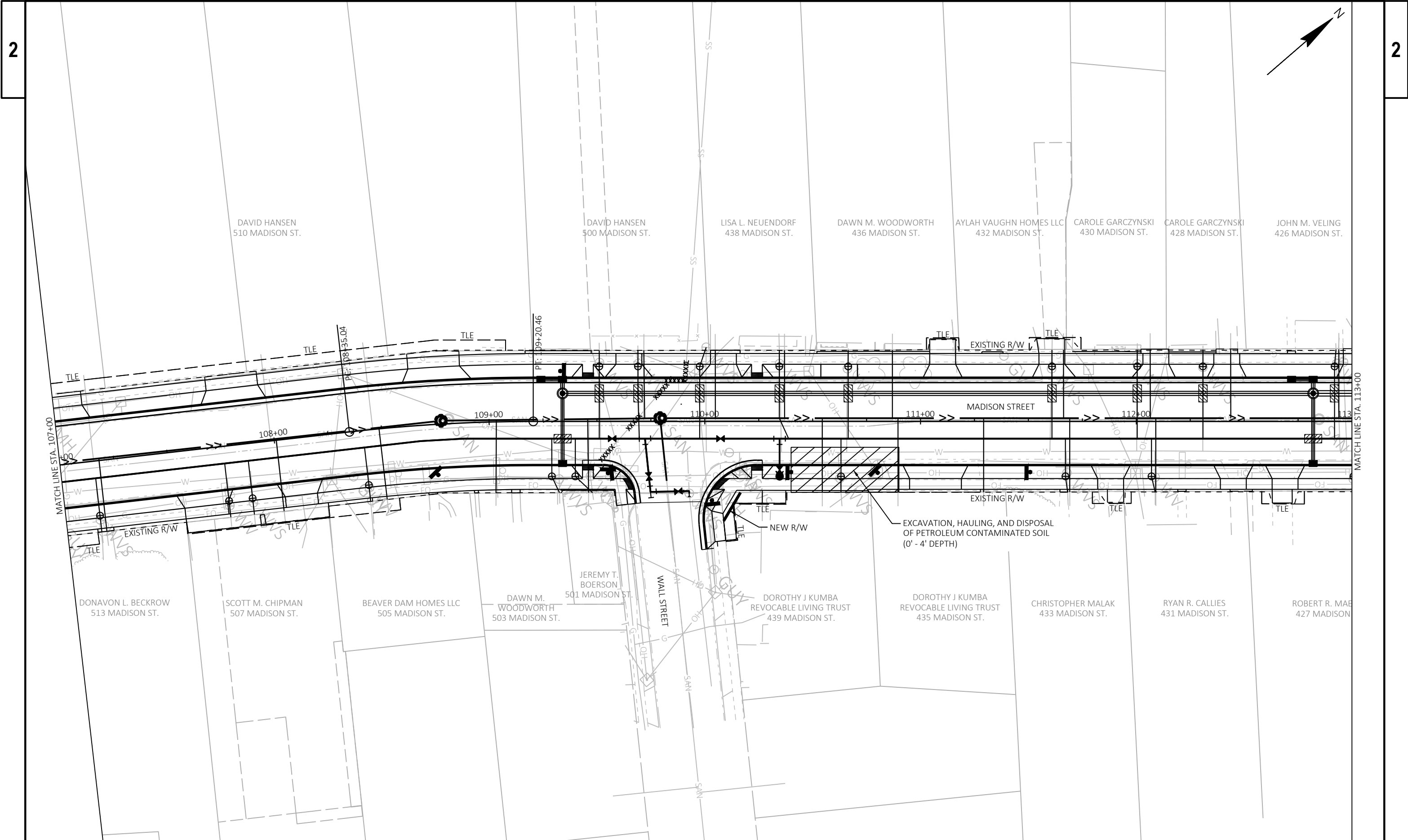
NOTES:

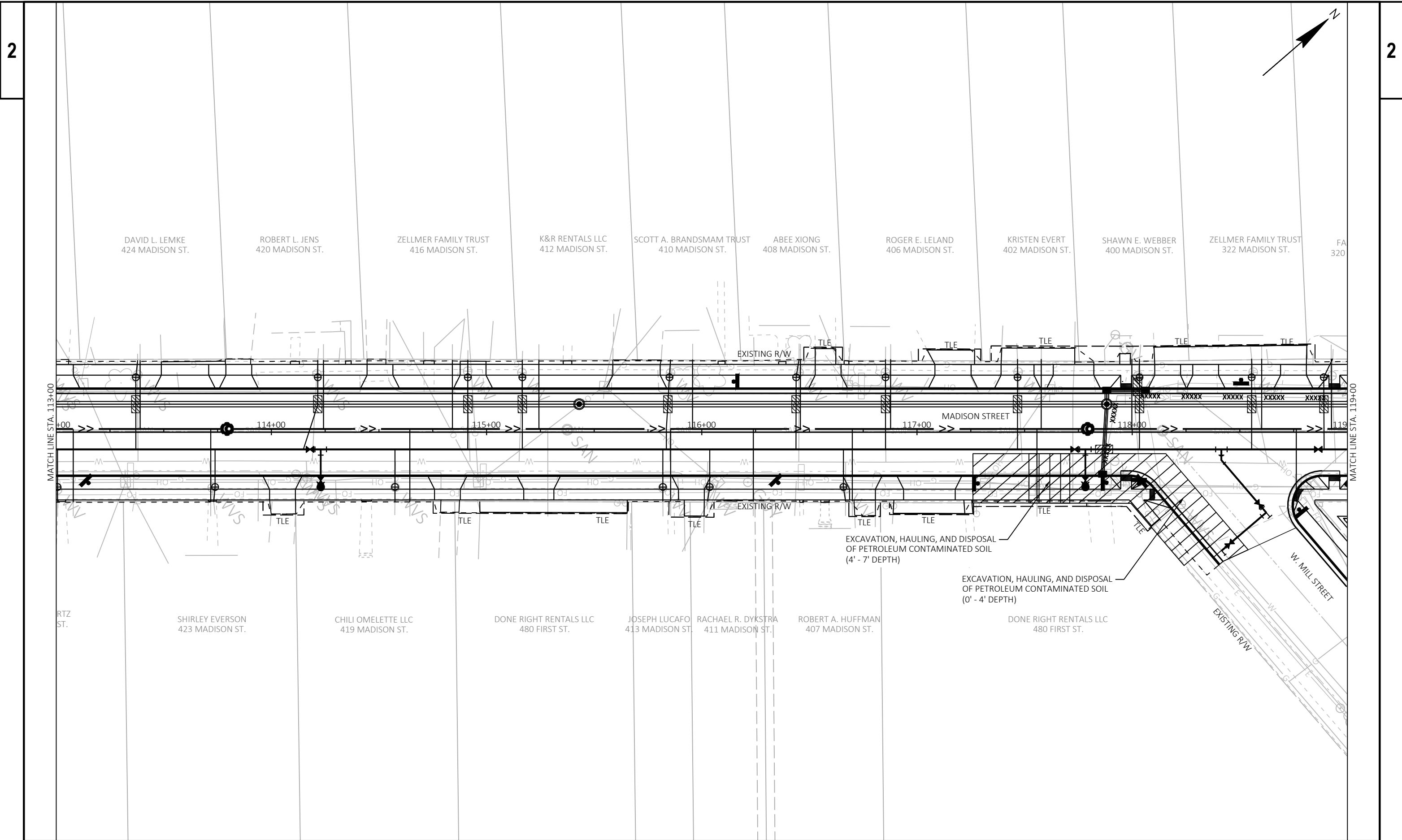
1. DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
2. DIMENSION 'D' EQUALS APPROX. I.D. OF PIPE LESS 2 INCHES. THE CONCRETE SHOULD NOT INTERFERE WITH THE MECHANICAL JOINTS.
3. WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, WEDGE ACTION RESTRAINING GLANDS SHALL BE PERMITTED.
4. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 PSI. INFORM THE ENGINEER IF ON-SITE SOIL DOES NOT MEET THIS CONDITION OR PRESSURES EXCEED 150 PSI.
5. BUTTRESS TO BE POURED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
6. CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
7. ALL POURED BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
8. NO WOOD BUTTRESS ALLOWED.

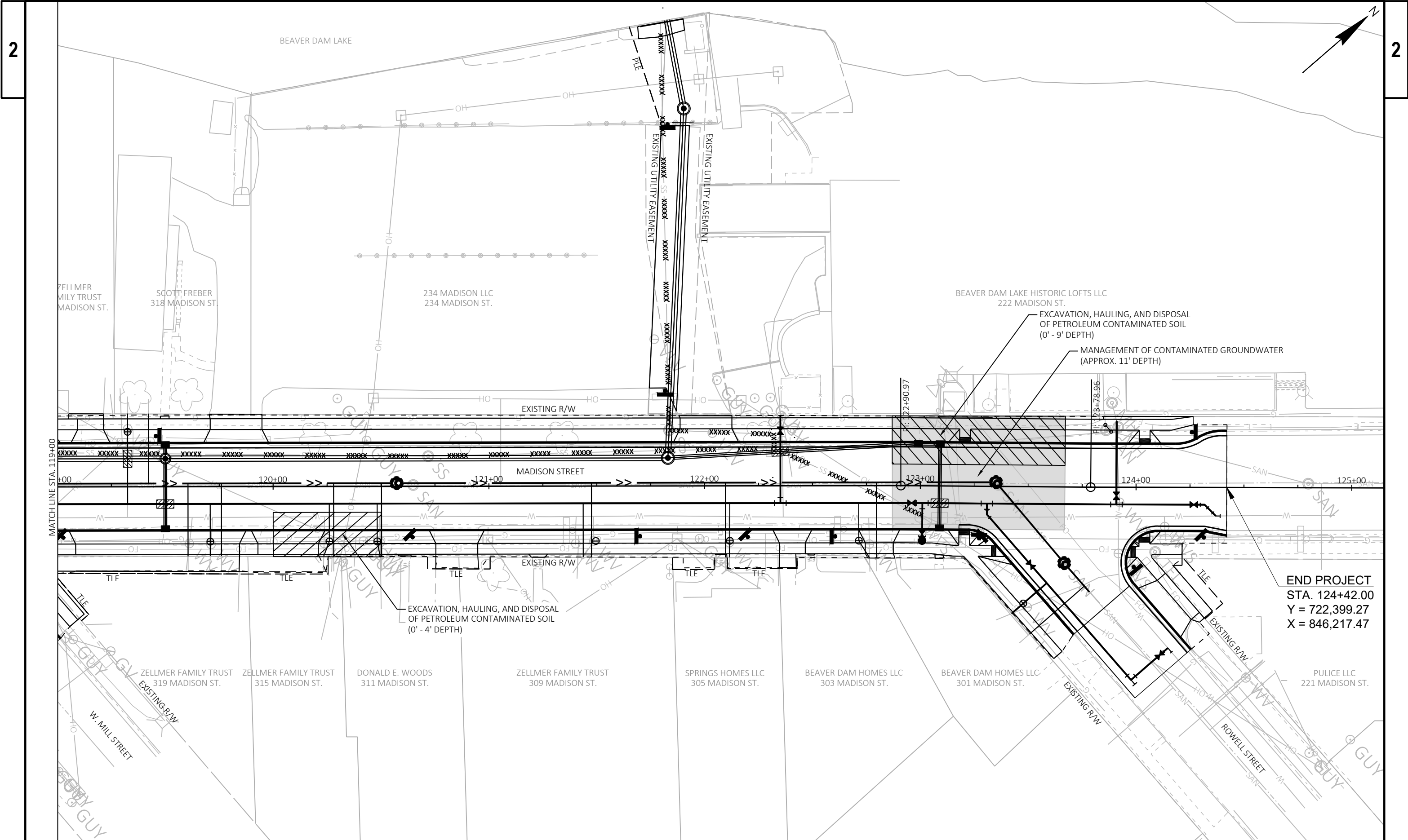
BUTTRESS FOR PLUGS DETAIL

NO SCALE









CURB & GUTTER POINT TABLE						
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
100	BEGIN C&G	101+70.00	18.37' LT	901.04	720643.64	844777.85
101	BEND PT.	101+86.90	18.00' LT	900.93	720657.38	844787.70
102	BEGIN C&G	101+70.00	17.63' RT	901.60	720623.32	844807.56
103	BEND PT.	101+80.97	18.00' RT	901.61	720632.16	844814.06
104	PC	101+85.77	18.00' RT	901.60	720636.13	844816.77
105	MID PT.	101+99.96	23.90' RT	902.03	720644.50	844829.65
106	PT	102+05.77	38.13' RT	901.86	720641.27	844844.68
107	END C&G	102+05.74	43.13' RT	901.70	720638.42	844848.79

CURB & GUTTER POINT TABLE						
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
108	BEGIN C&G	102+31.74	43.30' RT	901.54	720659.78	844863.61
109	PC	102+31.79	34.90' RT	901.63	720664.57	844856.70
110	MID PT.	102+36.81	22.94' RT	901.55	720675.47	844849.66
111	PT	102+48.79	18.00' RT	901.47	720688.15	844852.35
112	END C&G	102+52.95	18.00' RT	901.45	720691.58	844854.69
113	BEGIN C&G	105+62.28	18.00' RT	897.68	720946.91	845029.31
114	PC	105+65.28	18.00' RT	897.64	720949.39	845031.00
115	MID PT.	105+79.42	23.86' RT	897.68	720957.76	845043.82

CURB & GUTTER POINT TABLE						
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
116	PT	105+85.28	38.00' RT	898.02	720954.61	845058.80
117	END C&G	105+85.28	62.00' RT	898.11	720941.06	845078.61
118	BEGIN C&G	106+11.28	62.00' RT	897.88	720962.52	845093.29
119	PC	106+11.28	35.00' RT	897.30	720977.76	845071.00
120	MID PT.	106+16.26	22.98' RT	897.01	720988.66	845063.89
121	PT	106+28.28	18.00' RT	896.72	721001.39	845066.57
122	END C&G	106+43.28	18.00' RT	896.44	721013.77	845075.03

MICHAEL R. WISSELL
702 MADISON ST.

ROBERT W. RABEHL
700 MADISON ST.

CHARLES W. KRAMER
614 MADISON ST.

JAMES E. FEIL
612 MADISON ST.

MARK GIERL
610 MADISON ST.

JAMES S. MAGNUSON
608 MADISON ST.

MARY PINTARRO
602 MADISON ST.

PAUL J HARTZHEIM
600 MADISON ST.

DAVID HANSEN
500 MADISON ST.

MATTHEW T. BUCHDA
701 MADISON ST.

DAVID L & BARBARA J ROBERTS
REVOCABLE TRUST
615 MADISON ST.

ROBERT JENS
611 MADISON ST.

ROBERT G. KUCHARSKI
601/603 MADISON ST.

JOHN HAMMEN
519 MADISON ST.

CHATHAM STREET

GREENWICH STREET

- PAVING DETAIL NOTES
- ELEVATIONS ARE AT 25-FOOT INTERVALS.
 - RADIUS DIMENSIONS ARE TO THE FACE OF CURB.
 - SIDEWALK REPLACEMENT AREAS ARE APPROXIMATE. ADJUST LIMITS IN THE FIELD TO THE NEAREST SIDEWALK JOINT LINE AS DIRECTED BY THE ENGINEER.
 - GRADES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.
 - SEE CURB RAMP DETAILS FOR ADDITIONAL CURB & GUTTER STAKING INFORMATION AT INTERSECTIONS.

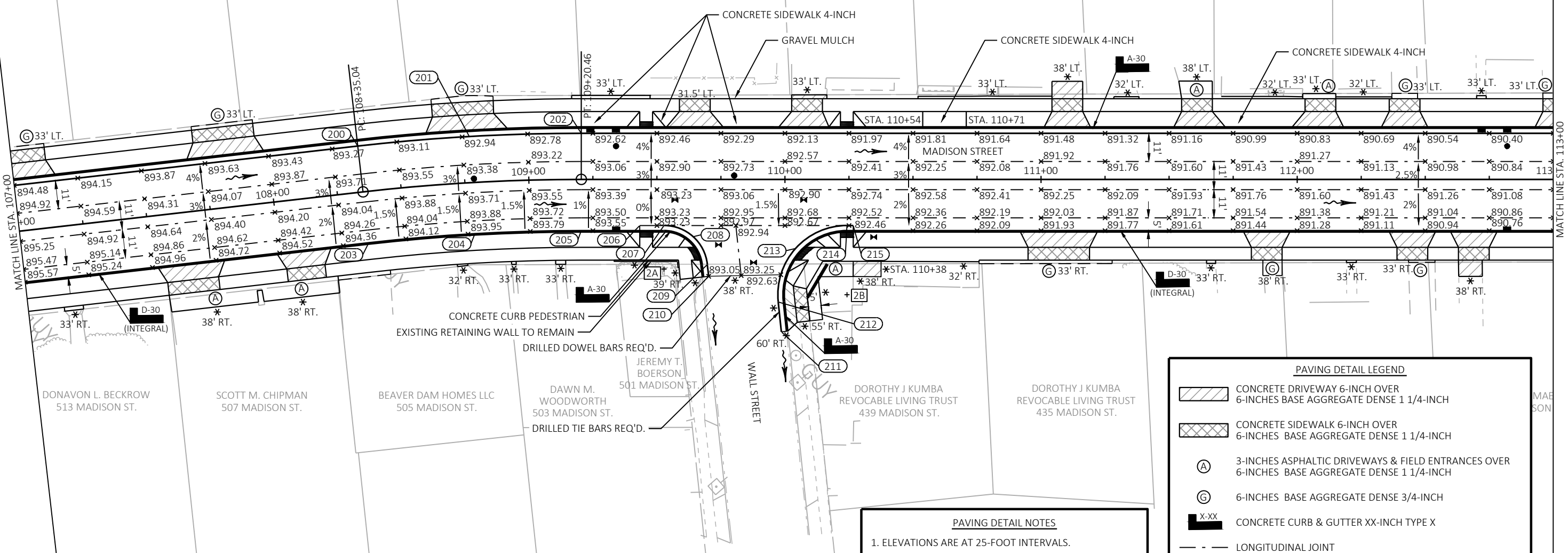
PAVING DETAIL LEGEND

- CONCRETE DRIVEWAY 6-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- CONCRETE SIDEWALK 6-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- 3-INCHES ASPHALTIC DRIVEWAYS & FIELD ENTRANCES OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- 6-INCHES BASE AGGREGATE DENSE 3/4-INCH
- CONCRETE CURB & GUTTER XX-INCH TYPE X
- LONGITUDINAL JOINT
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION
- SAWCUT REQUIRED

CURB & GUTTER RADIUS POINT TABLE					
POINT NUMBER	RADIUS	STATION	OFFSET	NORTHING	EASTING
1A	18.0'	101+85.77	38.00' RT	720624.84	844833.28
1B	15.0'	102+48.79	35.00' RT	720678.55	844866.38
1C	18.0'	105+65.28	38.00' RT	720938.10	845047.51
1D	15.0'	106+28.28	35.00' RT	720991.80	845080.60

CURB & GUTTER POINT TABLE						
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
200	PC	108+35.04	18.00' LT	893.20	721192.38	845153.56
201	MID PT.	108+77.75	18.00' LT	892.93	721227.76	845179.27
202	PT	109+20.46	18.00' LT	892.65	721261.62	845206.94
203	PC	108+35.04	20.00' RT	894.26	721170.93	845184.93
204	MID PT.	108+77.75	20.00' RT	893.94	721204.56	845209.36
205	PT	109+20.46	20.00' RT	893.59	721236.74	845235.67
206	BEGIN C&G	109+43.31	18.00' RT	893.30	721255.32	845249.11
207	PC	109+52.77	18.00' RT	893.20	721262.47	845255.30

CURB & GUTTER POINT TABLE						
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
208	MID PT.	109+64.14	22.36' RT	893.27	721268.21	845266.05
209	PT	109+69.67	33.21' RT	893.23	721265.29	845277.87
210	END C&G	109+70.22	37.80' RT	893.05	721262.70	845281.70
211	BEGIN C&G	109+98.60	59.50' RT	892.63	721269.95	845316.68
212	PC	109+97.37	47.84' RT	892.68	721276.65	845307.06
213	MID PT.	110+04.15	26.94' RT	892.68	721295.46	845295.70
214	PT	110+24.22	18.00' RT	892.52	721316.48	845302.08
215	END C&G	110+26.67	18.00' RT	892.49	721318.34	845303.68

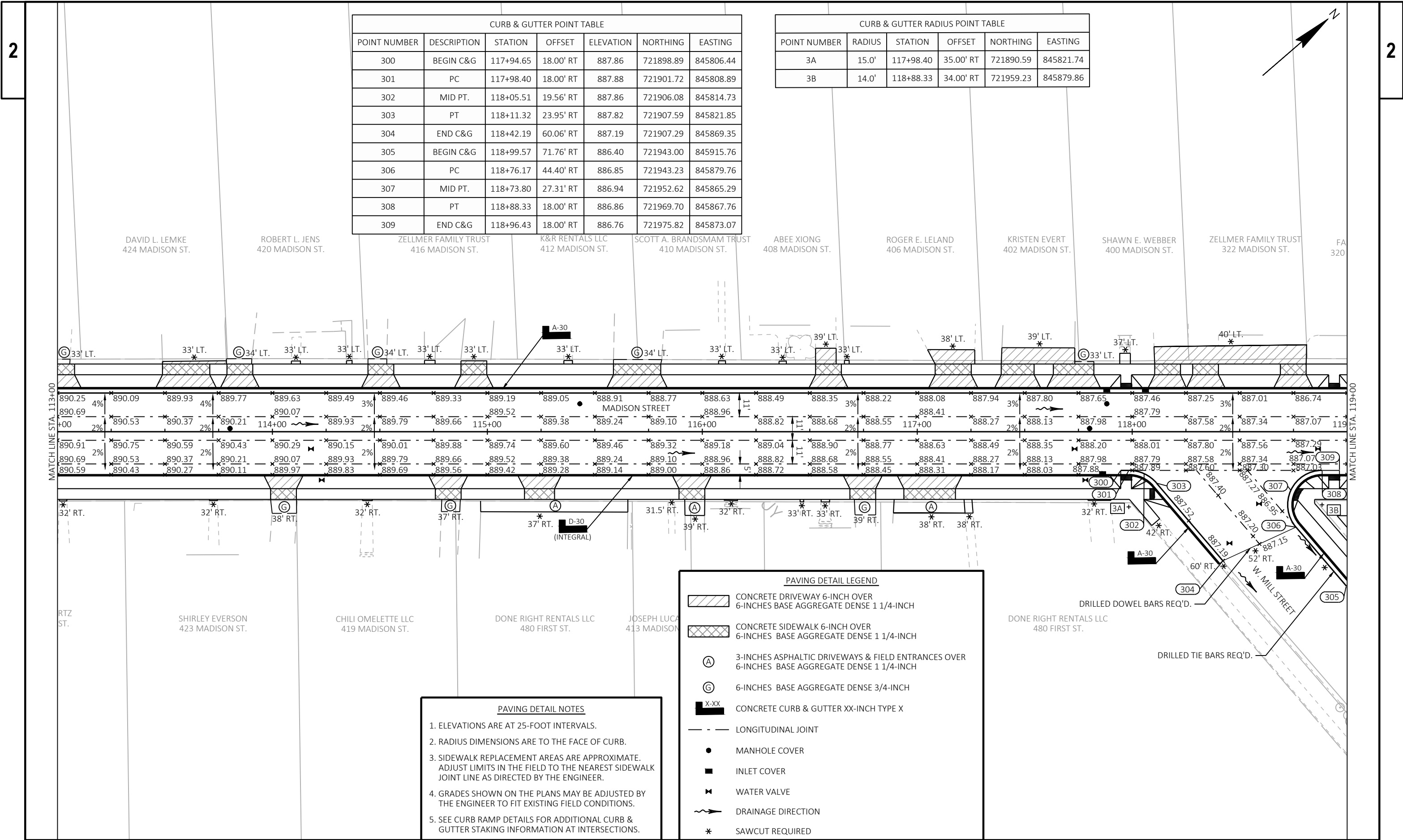


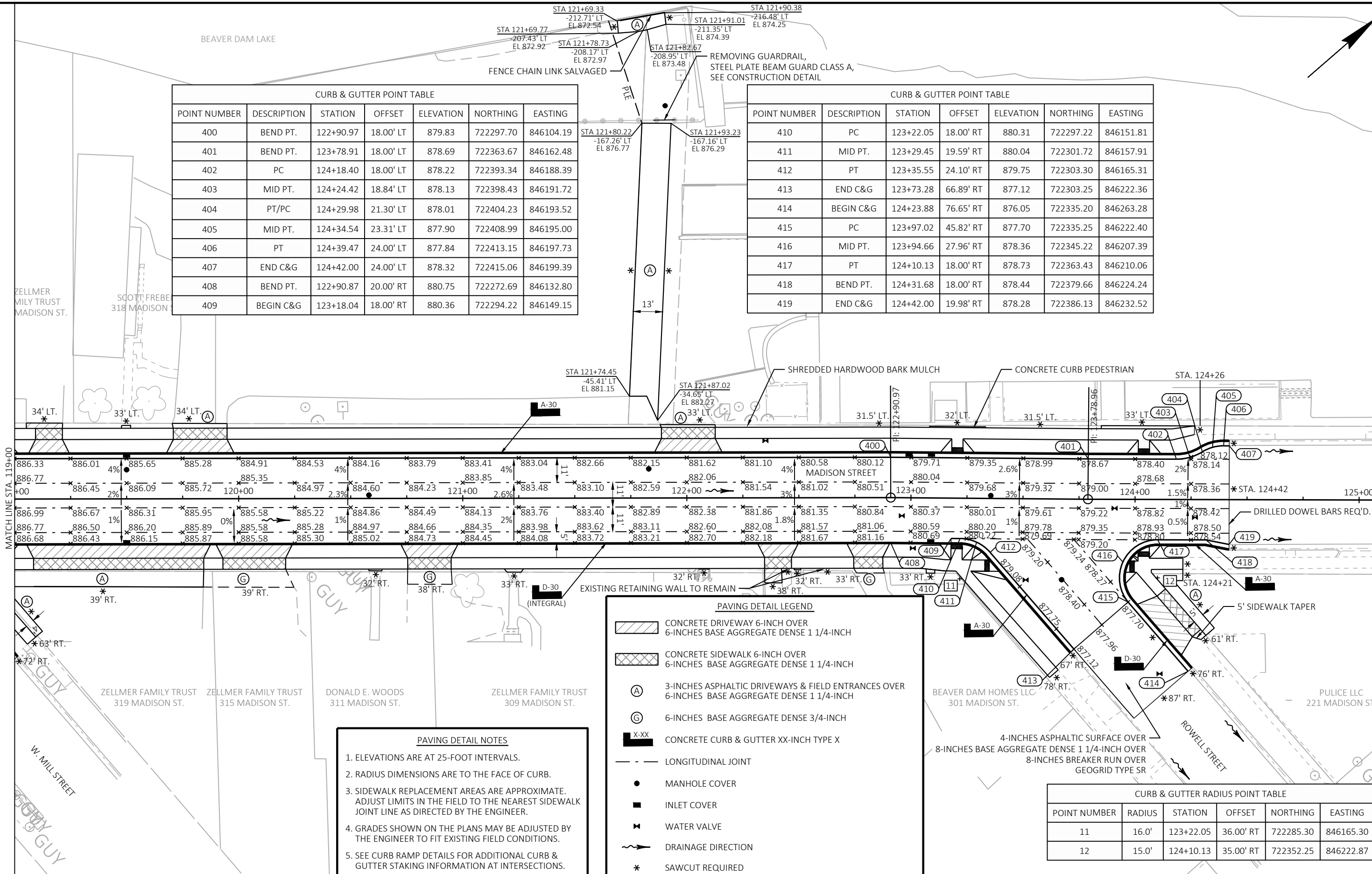
CURB & GUTTER RADIUS POINT TABLE					
POINT NUMBER	RADIUS	STATION	OFFSET	NORTHING	EASTING
2A	15.0'	109+52.77	35.00' RT	721251.34	845268.15
2B	25.0'	110+24.22	45.00' RT	721298.81	845322.49

- PAVING DETAIL NOTES**
- 1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
 - 2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.
 - 3. SIDEWALK REPLACEMENT AREAS ARE APPROXIMATE. ADJUST LIMITS IN THE FIELD TO THE NEAREST SIDEWALK JOINT LINE AS DIRECTED BY THE ENGINEER.
 - 4. GRADES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.
 - 5. SEE CURB RAMP DETAILS FOR ADDITIONAL CURB & GUTTER STAKING INFORMATION AT INTERSECTIONS.

PAVING DETAIL LEGEND

- CONCRETE DRIVEWAY 6-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- CONCRETE SIDEWALK 6-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- 3-INCHES ASPHALTIC DRIVEWAYS & FIELD ENTRANCES OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- 6-INCHES BASE AGGREGATE DENSE 3/4-INCH
- CONCRETE CURB & GUTTER XX-INCH TYPE X
- LONGITUDINAL JOINT
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION
- SAWCUT REQUIRED





CURB & GUTTER POINT TABLE						
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
400	BEND PT.	122+90.97	18.00' LT	879.83	722297.70	846104.19
401	BEND PT.	123+78.91	18.00' LT	878.69	722363.67	846162.48
402	PC	124+18.40	18.00' LT	878.22	722393.34	846188.39
403	MID PT.	124+24.42	18.84' LT	878.13	722398.43	846191.72
404	PT/PC	124+29.98	21.30' LT	878.01	722404.23	846193.52
405	MID PT.	124+34.54	23.31' LT	877.90	722408.99	846195.00
406	PT	124+39.47	24.00' LT	877.84	722413.15	846197.73
407	END C&G	124+42.00	24.00' LT	878.32	722415.06	846199.39
408	BEND PT.	122+90.87	20.00' RT	880.75	722272.69	846132.80
409	BEGIN C&G	123+18.04	18.00' RT	880.36	722294.22	846149.15

CURB & GUTTER POINT TABLE						
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING
410	PC	123+22.05	18.00' RT	880.31	722297.22	846151.81
411	MID PT.	123+29.45	19.59' RT	880.04	722301.72	846157.91
412	PT	123+35.55	24.10' RT	879.75	722303.30	846165.31
413	END C&G	123+73.28	66.89' RT	877.12	722303.25	846222.36
414	BEGIN C&G	124+23.88	76.65' RT	876.05	722335.20	846263.28
415	PC	123+97.02	45.82' RT	877.70	722335.25	846222.40
416	MID PT.	123+94.66	27.96' RT	878.36	722345.22	846207.39
417	PT	124+10.13	18.00' RT	878.73	722363.43	846210.06
418	BEND PT.	124+31.68	18.00' RT	878.44	722379.66	846224.24
419	END C&G	124+42.00	19.98' RT	878.28	722386.13	846232.52

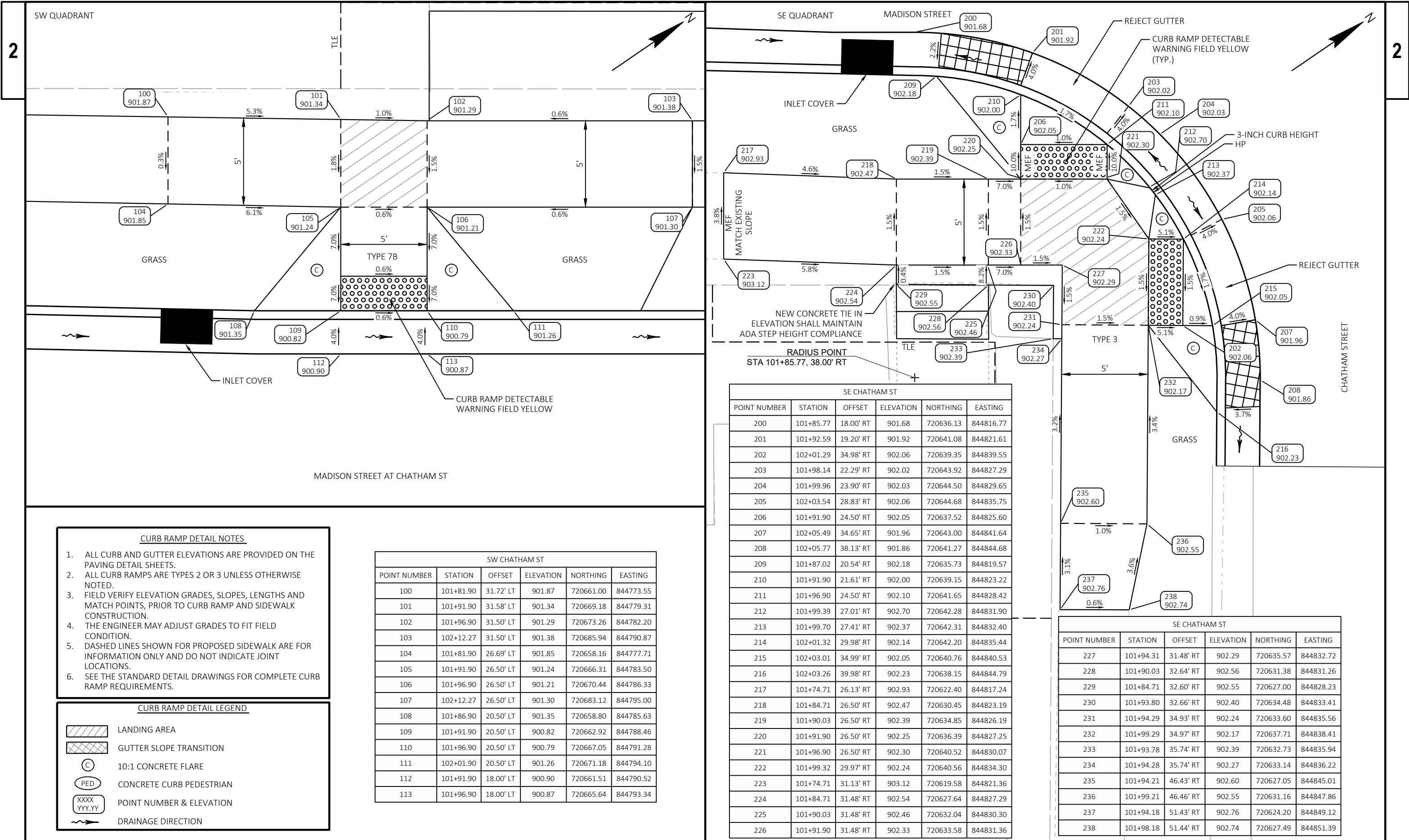
PAVING DETAIL LEGEND

- CONCRETE DRIVEWAY 6-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- CONCRETE SIDEWALK 6-INCH OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- 3-INCHES ASPHALTIC DRIVEWAYS & FIELD ENTRANCES OVER 6-INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- 6-INCHES BASE AGGREGATE DENSE 3/4-INCH
- CONCRETE CURB & GUTTER XX-INCH TYPE X
- LONGITUDINAL JOINT
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION
- SAWCUT REQUIRED

PAVING DETAIL NOTES

- ELEVATIONS ARE AT 25-FOOT INTERVALS.
- RADIUS DIMENSIONS ARE TO THE FACE OF CURB.
- SIDEWALK REPLACEMENT AREAS ARE APPROXIMATE. ADJUST LIMITS IN THE FIELD TO THE NEAREST SIDEWALK JOINT LINE AS DIRECTED BY THE ENGINEER.
- GRADES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.
- SEE CURB RAMP DETAILS FOR ADDITIONAL CURB & GUTTER STAKING INFORMATION AT INTERSECTIONS.

CURB & GUTTER RADIUS POINT TABLE					
POINT NUMBER	RADIUS	STATION	OFFSET	NORTHING	EASTING
11	16.0'	123+22.05	36.00' RT	722285.30	846165.30
12	15.0'	124+10.13	35.00' RT	722352.25	846222.87



CURB RAMP DETAIL NOTES

- 1. ALL CURB AND GUTTER ELEVATIONS ARE PROVIDED ON THE PAVING DETAIL SHEETS.
- 2. ALL CURB RAMPS ARE TYPES 2 OR 3 UNLESS OTHERWISE NOTED.
- 3. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
- 4. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
- 5. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
- 6. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

CURB RAMP DETAIL LEGEND

- LANDING AREA
- GUTTER SLOPE TRANSITION
- 10:1 CONCRETE FLARE
- CONCRETE CURB PEDESTRIAN
- POINT NUMBER & ELEVATION
- DRAINAGE DIRECTION

SW CHATHAM ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
100	101+81.90	31.72' LT	901.87	720661.00	844773.55
101	101+91.90	31.58' LT	901.34	720669.18	844779.31
102	101+96.90	31.50' LT	901.29	720673.26	844782.20
103	102+12.27	31.50' LT	901.38	720685.94	844790.87
104	101+81.90	26.69' LT	901.85	720658.16	844777.71
105	101+91.90	26.50' LT	901.24	720666.31	844783.50
106	101+96.90	26.50' LT	901.21	720670.44	844786.33
107	102+12.27	26.50' LT	901.30	720683.12	844795.00
108	101+86.90	20.50' LT	901.35	720658.80	844785.63
109	101+91.90	20.50' LT	900.82	720662.92	844788.46
110	101+96.90	20.50' LT	900.79	720667.05	844791.28
111	102+01.90	20.50' LT	901.26	720671.18	844794.10
112	101+91.90	18.00' LT	900.90	720661.51	844790.52
113	101+96.90	18.00' LT	900.87	720665.64	844793.34

SE CHATHAM ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
200	101+85.77	18.00' RT	901.68	720636.13	844816.77
201	101+92.59	19.20' RT	901.92	720641.08	844821.61
202	102+01.29	34.98' RT	902.06	720639.35	844839.55
203	101+98.14	22.29' RT	902.02	720643.92	844827.29
204	101+99.96	23.90' RT	902.03	720644.50	844829.65
205	102+03.54	28.83' RT	902.06	720644.68	844835.75
206	101+91.90	24.50' RT	902.05	720637.52	844825.60
207	102+05.49	34.65' RT	901.96	720643.00	844841.64
208	102+05.77	38.13' RT	901.86	720641.27	844844.68
209	101+87.02	20.54' RT	902.18	720635.73	844819.57
210	101+91.90	21.61' RT	902.00	720639.15	844823.22
211	101+96.90	24.50' RT	902.10	720641.65	844828.42
212	101+99.39	27.01' RT	902.70	720642.28	844831.90
213	101+99.70	27.41' RT	902.37	720642.31	844832.40
214	102+01.32	29.98' RT	902.14	720642.20	844835.44
215	102+03.01	34.99' RT	902.05	720640.76	844840.53
216	102+03.26	39.98' RT	902.23	720638.15	844844.79
217	101+74.71	26.13' RT	902.93	720622.40	844817.24
218	101+84.71	26.50' RT	902.47	720630.45	844823.19
219	101+90.03	26.50' RT	902.39	720634.85	844826.19
220	101+91.90	26.50' RT	902.25	720636.39	844827.25
221	101+96.90	26.50' RT	902.30	720640.52	844830.07
222	101+99.32	29.97' RT	902.24	720640.56	844834.30
223	101+74.71	31.13' RT	903.12	720619.58	844821.36
224	101+84.71	31.48' RT	902.54	720627.64	844827.29
225	101+90.03	31.48' RT	902.46	720632.04	844830.30
226	101+91.90	31.48' RT	902.33	720633.58	844831.36

SE CHATHAM ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
227	101+94.31	31.48' RT	902.29	720635.57	844832.72
228	101+90.03	32.64' RT	902.56	720631.38	844831.26
229	101+84.71	32.60' RT	902.55	720627.00	844828.23
230	101+93.80	32.66' RT	902.40	720634.48	844833.41
231	101+94.29	34.93' RT	902.24	720633.60	844835.56
232	101+99.29	34.97' RT	902.17	720637.71	844838.41
233	101+93.78	35.74' RT	902.39	720632.73	844835.94
234	101+94.28	35.74' RT	902.27	720633.14	844836.22
235	101+94.21	46.43' RT	902.60	720627.05	844845.01
236	101+99.21	46.46' RT	902.55	720631.16	844847.86
237	101+94.18	51.43' RT	902.76	720624.20	844849.12
238	101+98.18	51.44' RT	902.74	720627.49	844851.39

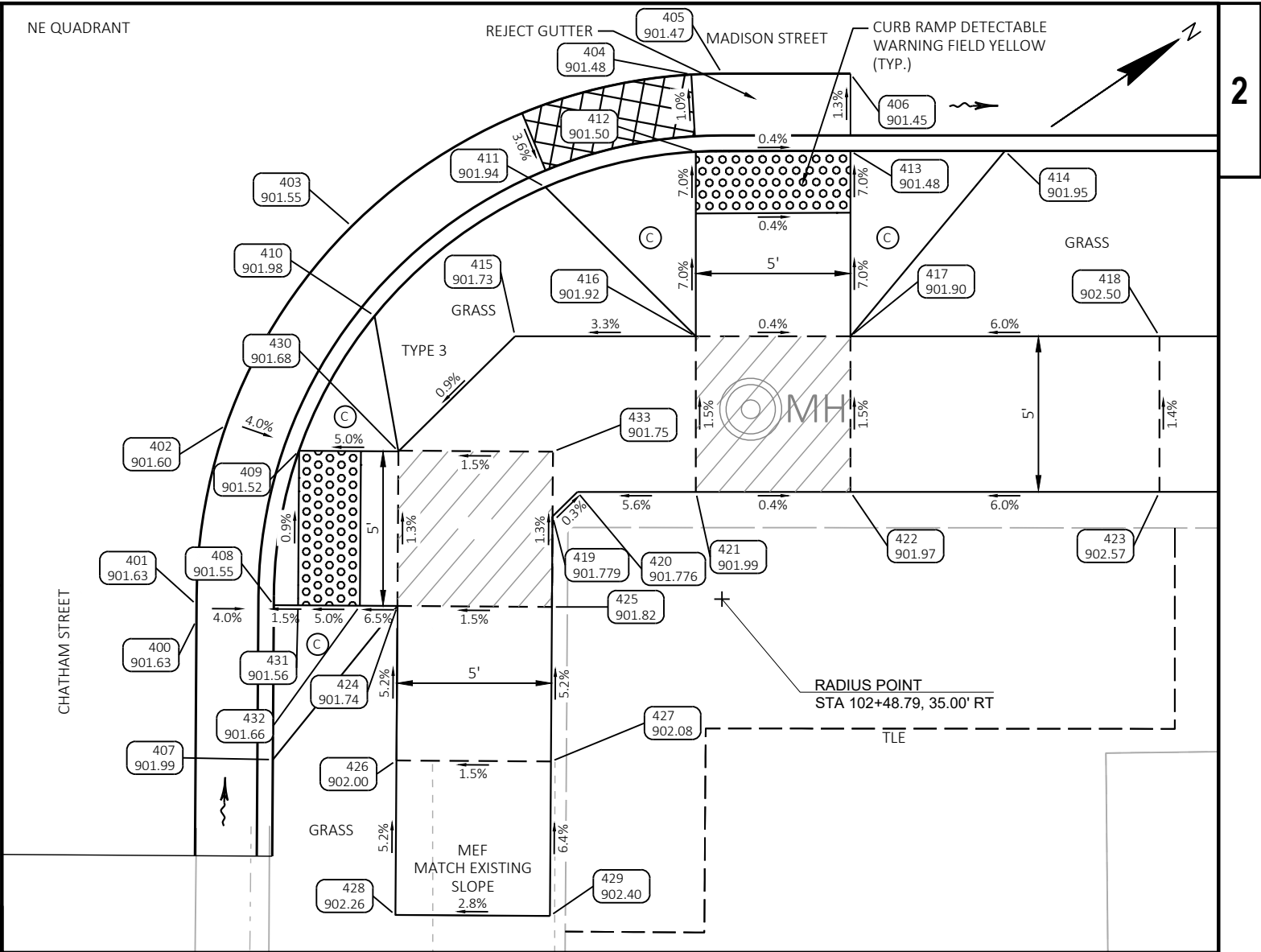
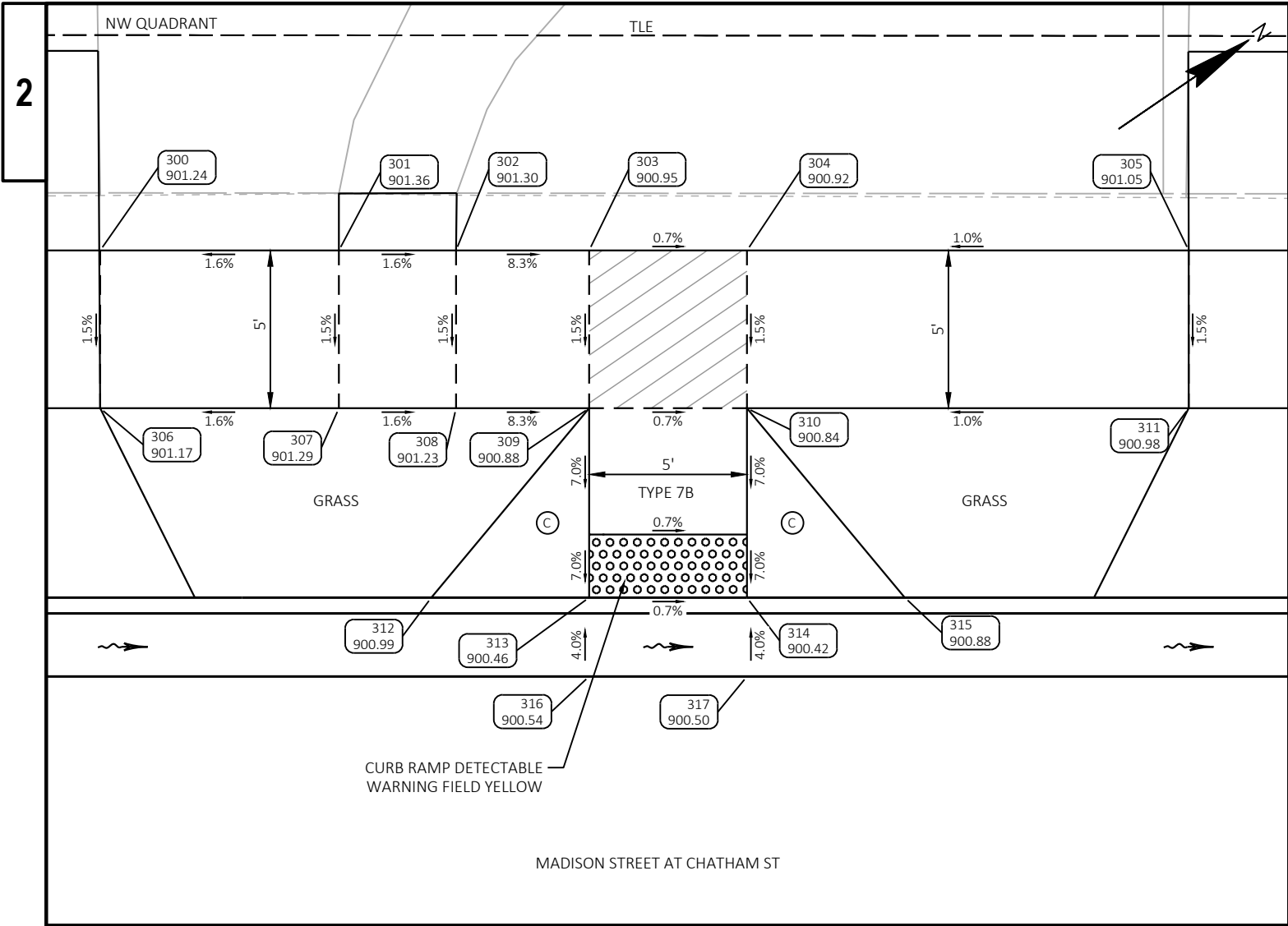
PROJECT NO: 6995-04-74

HWY: MADISON STREET

COUNTY: DODGE

CURB RAMP DETAILS: CHATHAM STREET

SHEET



CURB RAMP DETAIL NOTES

1. ALL CURB AND GUTTER ELEVATIONS ARE PROVIDED ON THE PAVING DETAIL SHEETS.
2. ALL CURB RAMPS ARE TYPES 2 OR 3 UNLESS OTHERWISE NOTED.
3. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
4. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
5. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
6. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

CURB RAMP DETAIL LEGEND

- LANDING AREA
- GUTTER SLOPE TRANSITION
- 10:1 CONCRETE FLARE
- CONCRETE CURB PEDESTRIAN
- POINT NUMBER & ELEVATION
- DRAINAGE DIRECTION

NW CHATHAM ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
300	102+32.46	31.50' LT	901.24	720702.60	844802.27
301	102+40.02	31.50' LT	901.36	720708.85	844806.54
302	102+43.73	31.50' LT	901.30	720711.91	844808.63
303	102+47.95	31.50' LT	900.95	720715.39	844811.01
304	102+52.95	31.50' LT	900.92	720719.52	844813.83
305	102+66.94	31.50' LT	901.05	720731.07	844821.73
306	102+32.46	26.50' LT	901.17	720699.78	844806.39
307	102+40.02	26.50' LT	901.29	720706.02	844810.66
308	102+43.73	26.50' LT	901.23	720709.09	844812.76
309	102+47.95	26.50' LT	900.88	720712.57	844815.14
310	102+52.95	26.50' LT	900.84	720716.70	844817.96
311	102+66.94	26.50' LT	900.98	720728.25	844825.86
312	102+42.95	20.50' LT	900.99	720705.05	844817.27
313	102+47.95	20.50' LT	900.46	720709.18	844820.09
314	102+52.95	20.50' LT	900.42	720713.31	844822.91
315	102+57.95	20.50' LT	900.88	720717.44	844825.73
316	102+47.95	18.00' LT	900.54	720707.77	844822.15
317	102+52.95	18.00' LT	900.50	720711.90	844824.98

NE CHATHAM ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
400	102+31.79	35.68' RT	901.63	720664.13	844857.34
401	102+31.79	35.18' RT	901.63	720664.41	844856.93
402	102+32.75	29.37' RT	901.60	720668.48	844852.68
403	102+36.81	22.94' RT	901.55	720675.47	844849.66
404	102+47.80	18.03' RT	901.48	720687.31	844851.81
405	102+48.79	18.00' RT	901.47	720688.15	844852.35
406	102+52.95	18.00' RT	901.45	720691.58	844854.69
407	102+34.26	40.20' RT	901.99	720663.62	844862.46
408	102+34.29	35.20' RT	901.55	720666.47	844858.35
409	102+35.11	30.20' RT	901.52	720669.96	844854.69
410	102+37.55	25.84' RT	901.98	720674.44	844852.47
411	102+43.08	21.67' RT	901.94	720681.36	844852.15
412	102+47.95	20.52' RT	901.50	720686.02	844853.95
413	102+52.95	20.50' RT	901.48	720690.16	844856.76
414	102+57.95	20.50' RT	901.95	720694.29	844859.58
415	102+42.09	26.50' RT	901.73	720677.82	844855.58
416	102+47.95	26.50' RT	901.92	720682.65	844858.89

NE CHATHAM ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
417	102+52.95	26.50' RT	901.90	720686.78	844861.71
418	102+62.95	26.50' RT	902.50	720695.03	844867.35
419	102+43.31	32.33' RT	901.78	720675.53	844861.08
420	102+44.11	31.53' RT	901.78	720676.64	844860.88
421	102+47.95	31.53' RT	901.99	720679.81	844863.04
422	102+52.95	31.53' RT	901.97	720683.94	844865.86
423	102+62.95	31.53' RT	902.57	720692.19	844871.51
424	102+38.29	35.22' RT	901.74	720669.76	844860.63
425	102+43.29	35.26' RT	901.82	720673.86	844863.48
426	102+38.26	40.22' RT	902.00	720666.91	844864.74
427	102+43.26	40.26' RT	902.08	720671.01	844867.59
428	102+38.22	45.22' RT	902.26	720664.06	844868.85
429	102+43.22	45.26' RT	902.40	720668.16	844871.70
430	102+38.32	30.22' RT	901.68	720672.60	844856.53
431	102+35.07	35.20' RT	901.56	720667.11	844858.80
432	102+37.07	35.21' RT	901.66	720668.76	844859.94
433	102+43.32	30.23' RT	901.75	720676.73	844859.36

PROJECT NO: 6995-04-74

HWY: MADISON STREET

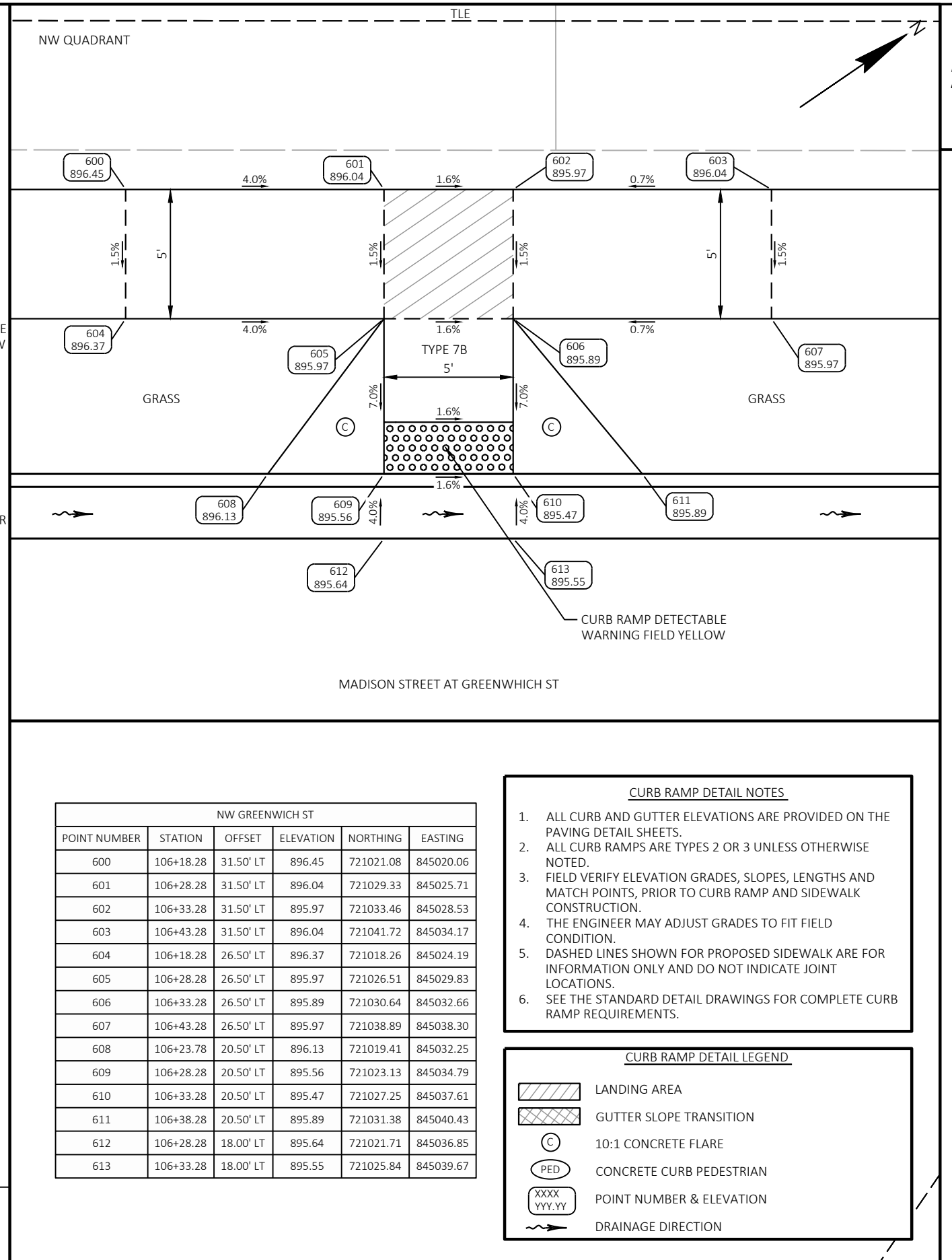
COUNTY: DODGE

CURB RAMP DETAILS: CHATHAM STREET

SHEET

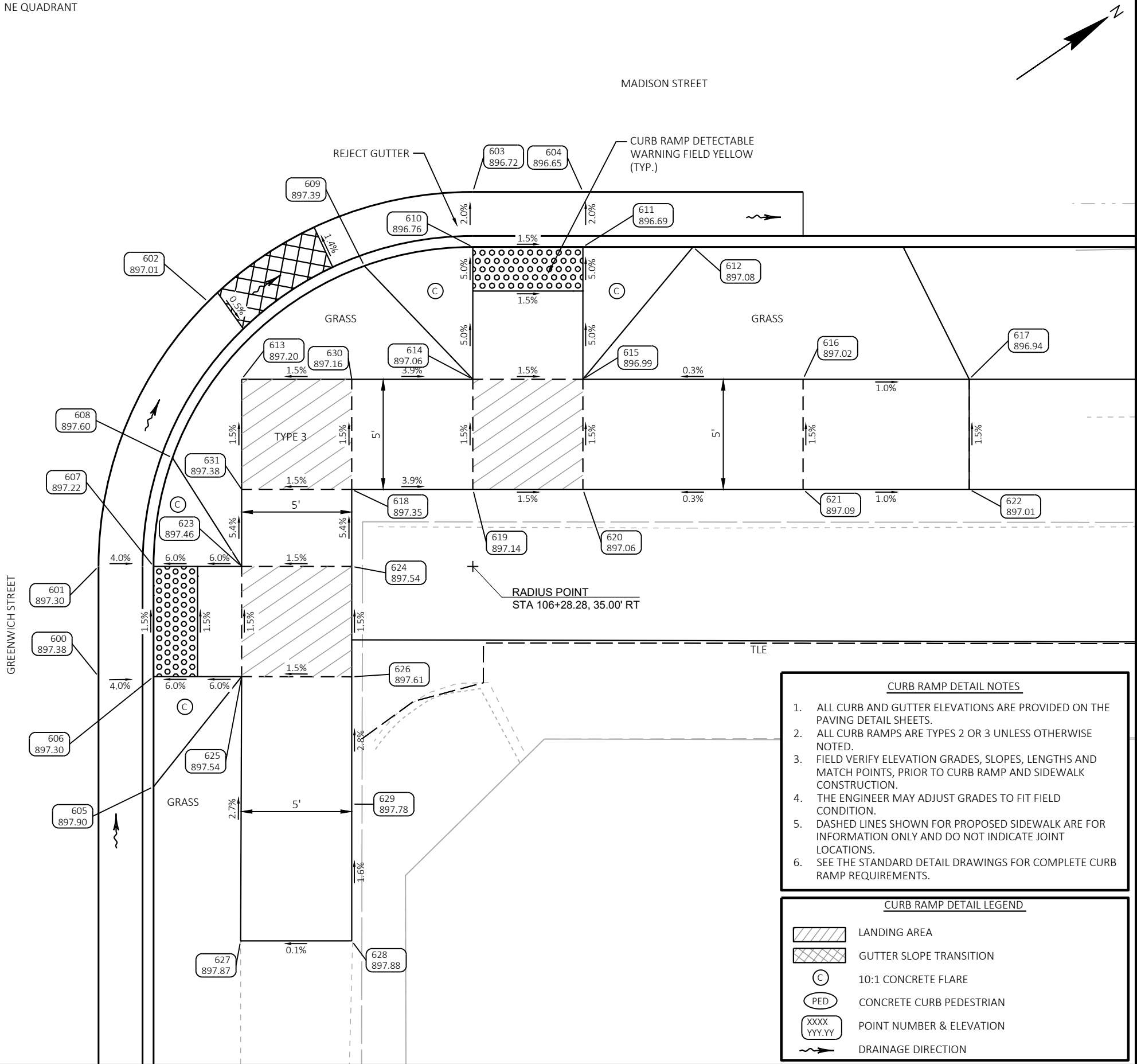
24

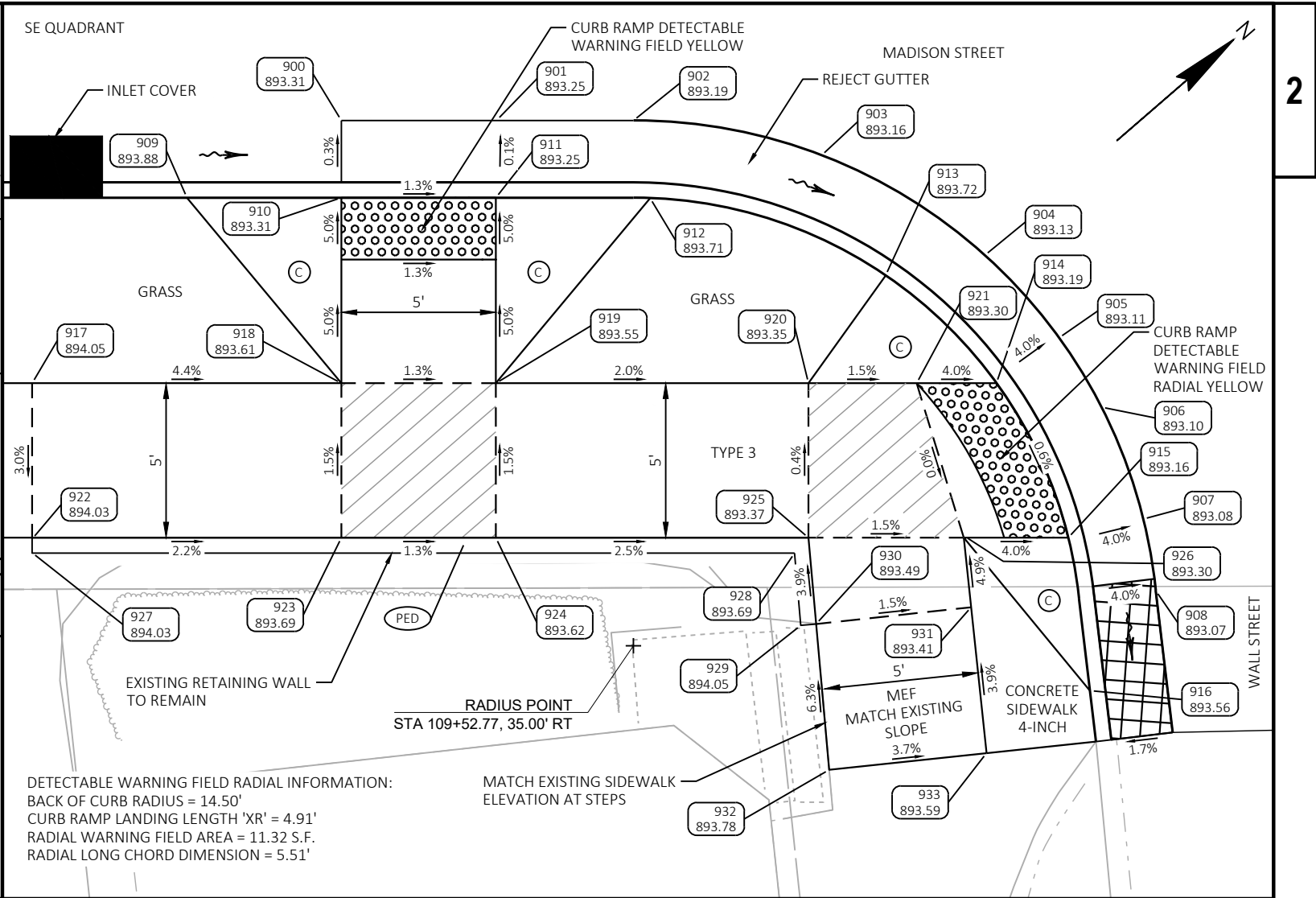
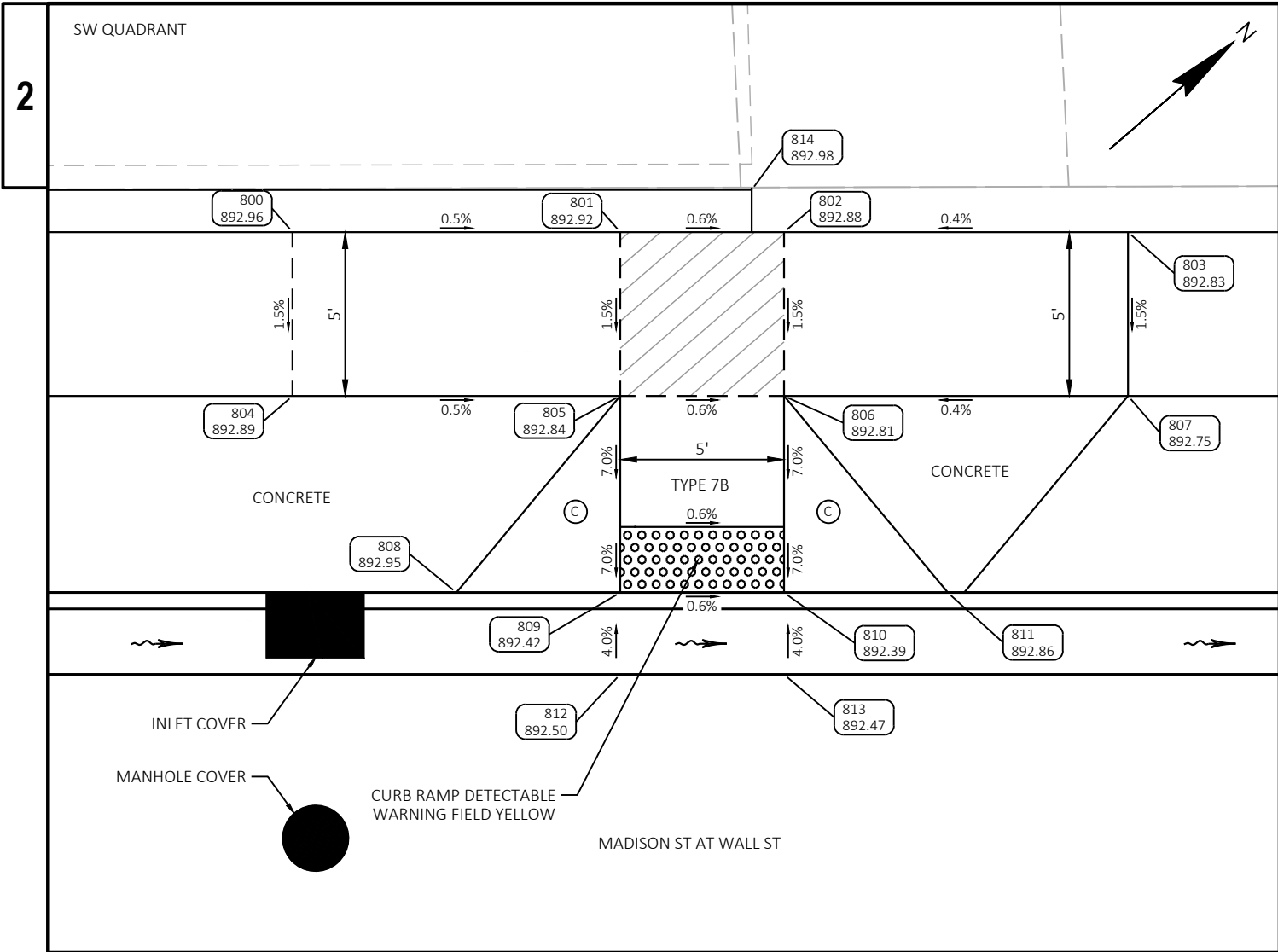
E



NE GREENWICH ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
600	106+11.28	40.00' RT	897.38	720974.94	845075.13
601	106+11.28	35.00' RT	897.30	720977.76	845071.00
602	106+16.26	22.98' RT	897.01	720988.66	845063.89
603	106+28.28	18.00' RT	896.72	721001.39	845066.57
604	106+33.28	18.00' RT	896.65	721005.52	845069.39
605	106+13.78	45.00' RT	897.90	720974.18	845080.67
606	106+13.78	40.00' RT	897.30	720977.00	845076.54
607	106+13.78	35.00' RT	897.22	720979.83	845072.41
608	106+14.64	30.07' RT	897.60	720983.32	845068.83
609	106+23.36	21.36' RT	897.39	720995.43	845066.56
610	106+28.28	20.50' RT	896.76	720999.98	845068.63
611	106+33.28	20.50' RT	896.69	721004.11	845071.45
612	106+38.28	20.50' RT	897.08	721008.24	845074.27
613	106+17.78	26.50' RT	897.20	720987.93	845067.65
614	106+28.28	26.50' RT	897.06	720996.59	845073.58
615	106+33.28	26.50' RT	896.99	721000.72	845076.40
616	106+43.28	26.50' RT	897.02	721008.98	845082.05
617	106+50.83	26.50' RT	896.94	721015.20	845086.31
618	106+22.78	31.50' RT	897.35	720989.23	845074.60
619	106+28.28	31.50' RT	897.14	720993.77	845077.71
620	106+33.28	31.50' RT	897.06	720997.90	845080.53
621	106+43.28	31.50' RT	897.09	721006.15	845086.18
622	106+50.83	31.50' RT	897.01	721012.38	845090.44
623	106+17.78	35.00' RT	897.46	720983.13	845074.67
624	106+22.78	35.00' RT	897.54	720987.26	845077.49
625	106+17.78	40.00' RT	897.54	720980.31	845078.80
626	106+22.78	40.01' RT	897.61	720984.43	845081.63
627	106+17.73	52.00' RT	897.87	720973.49	845088.68
628	106+22.78	52.00' RT	897.88	720977.66	845091.53
629	106+22.78	45.79' RT	897.78	720981.16	845086.40
630	106+22.78	26.50' RT	897.16	720992.05	845070.48
631	106+17.78	31.50' RT	897.38	720985.10	845071.78

NE QUADRANT





- CURB RAMP DETAIL NOTES
- ALL CURB AND GUTTER ELEVATIONS ARE PROVIDED ON THE PAVING DETAIL SHEETS.
 - ALL CURB RAMPS ARE TYPES 2 OR 3 UNLESS OTHERWISE NOTED.
 - FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
 - THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
 - DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
 - SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

CURB RAMP DETAIL LEGEND

LANDING AREA

GUTTER SLOPE TRANSITION

10:1 CONCRETE FLARE

CONCRETE CURB PEDESTRIAN

POINT NUMBER & ELEVATION

DRAINAGE DIRECTION

SW WALL ST						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	
800	109+33.31	31.50' LT	892.96	721280.17	845205.15	
801	109+43.31	31.50' LT	892.92	721287.73	845211.69	
802	109+48.31	31.50' LT	892.88	721291.51	845214.97	
803	109+58.81	31.50' LT	892.83	721299.45	845221.84	
804	109+33.31	26.50' LT	892.89	721276.90	845208.93	
805	109+43.31	26.50' LT	892.84	721284.46	845215.47	
806	109+48.31	26.50' LT	892.81	721288.24	845218.75	
807	109+58.81	26.50' LT	892.75	721296.17	845225.62	
808	109+38.31	20.50' LT	892.95	721276.75	845216.74	
809	109+43.31	20.50' LT	892.42	721280.53	845220.01	
810	109+48.31	20.50' LT	892.39	721284.31	845223.28	
811	109+53.31	20.50' LT	892.86	721288.09	845226.56	
812	109+43.31	18.00' LT	892.50	721278.89	845221.90	
813	109+48.31	18.00' LT	892.47	721282.67	845225.17	
814	109+47.32	32.79' LT	892.98	721291.61	845213.34	

SE WALL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
900	109+43.31	18.00' RT	893.31	721255.32	845249.11
901	109+48.34	17.99' RT	893.25	721259.13	845252.40
902	109+52.77	18.00' RT	893.19	721262.47	845255.30
903	109+58.86	19.13' RT	893.16	721266.34	845260.14
904	109+64.14	22.36' RT	893.13	721268.21	845266.05
905	109+66.54	25.03' RT	893.11	721268.28	845269.64
906	109+67.91	27.27' RT	893.10	721267.85	845272.23
907	109+69.27	30.90' RT	893.08	721266.50	845275.85
908	109+69.67	33.21' RT	893.07	721265.29	845277.87
909	109+38.31	20.50' RT	893.88	721249.91	845247.73
910	109+43.31	20.50' RT	893.31	721253.69	845251.00
911	109+48.31	20.50' RT	893.25	721257.47	845254.28
912	109+53.30	20.51' RT	893.71	721261.23	845257.55
913	109+60.93	23.02' RT	893.72	721265.36	845264.44
914	109+64.52	26.50' RT	893.19	721265.79	845269.42
915	109+66.84	31.50' RT	893.16	721264.27	845274.72
916	109+67.54	36.45' RT	893.56	721261.56	845278.92

SE WALL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
917	109+33.30	26.50' RT	894.05	721242.19	845248.98
918	109+43.31	26.50' RT	893.61	721249.76	845255.54
919	109+48.31	26.50' RT	893.55	721253.54	845258.81
920	109+58.43	26.50' RT	893.35	721261.19	845265.44
921	109+61.93	26.50' RT	893.30	721263.84	845267.73
922	109+33.30	31.54' RT	894.03	721238.89	845252.79
923	109+43.31	31.50' RT	893.69	721246.49	845259.32
924	109+48.31	31.50' RT	893.62	721250.27	845262.59
925	109+58.43	31.50' RT	893.37	721257.92	845269.22
926	109+63.46	31.50' RT	893.30	721261.72	845272.51
927	109+33.30	31.99' RT	894.03	721238.60	845253.13
928	109+57.98	32.00' RT	893.69	721257.25	845269.30
929	109+58.18	34.34' RT	894.05	721255.87	845271.20
930	109+58.68	34.29' RT	893.49	721256.28	845271.49
931	109+63.70	33.75' RT	893.41	721260.42	845274.37
932	109+59.10	39.01' RT	893.78	721253.51	845275.33
933	109+64.20	38.47' RT	893.59	721257.71	845278.26

PROJECT NO: 6995-04-74

HWY: MADISON STREET

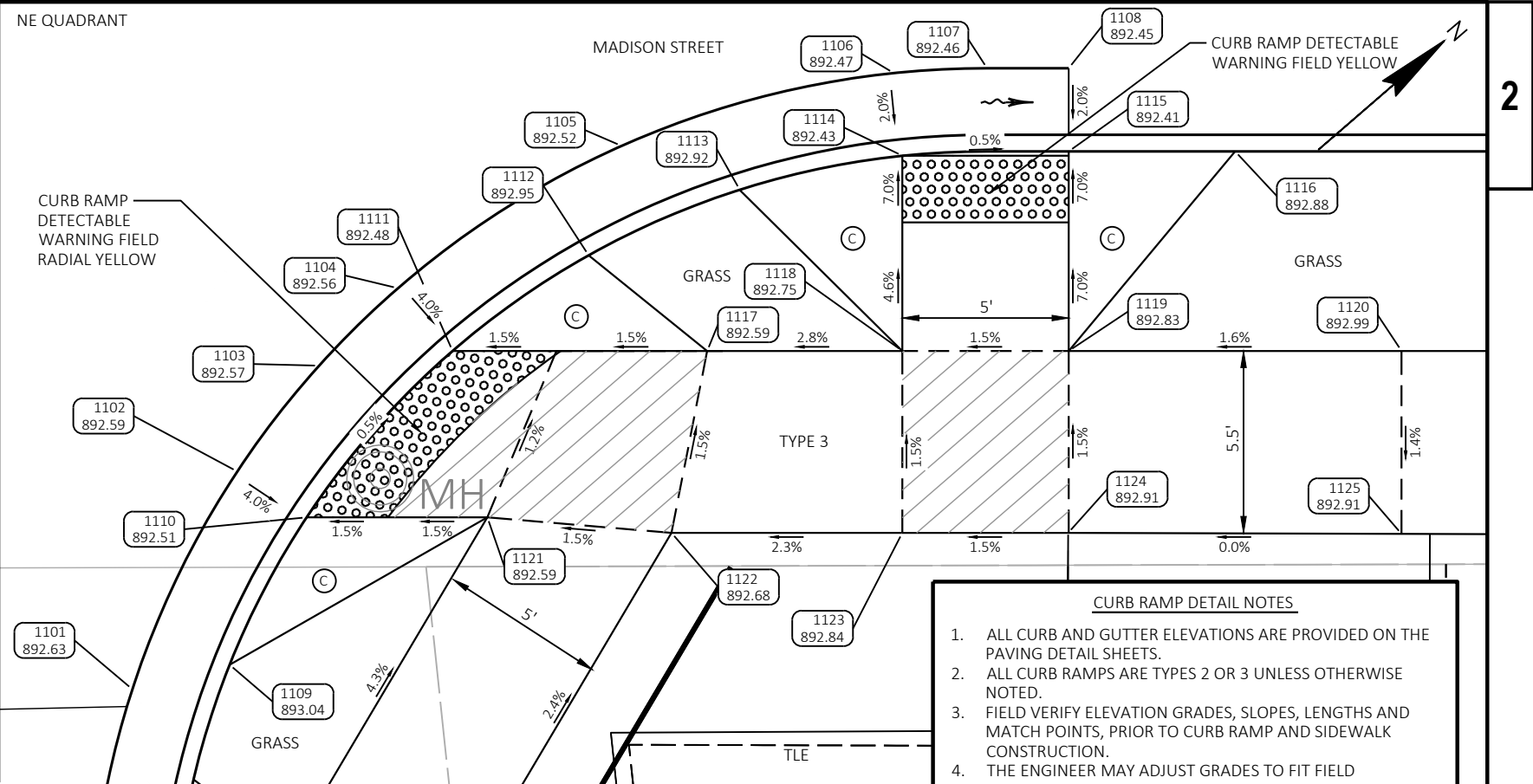
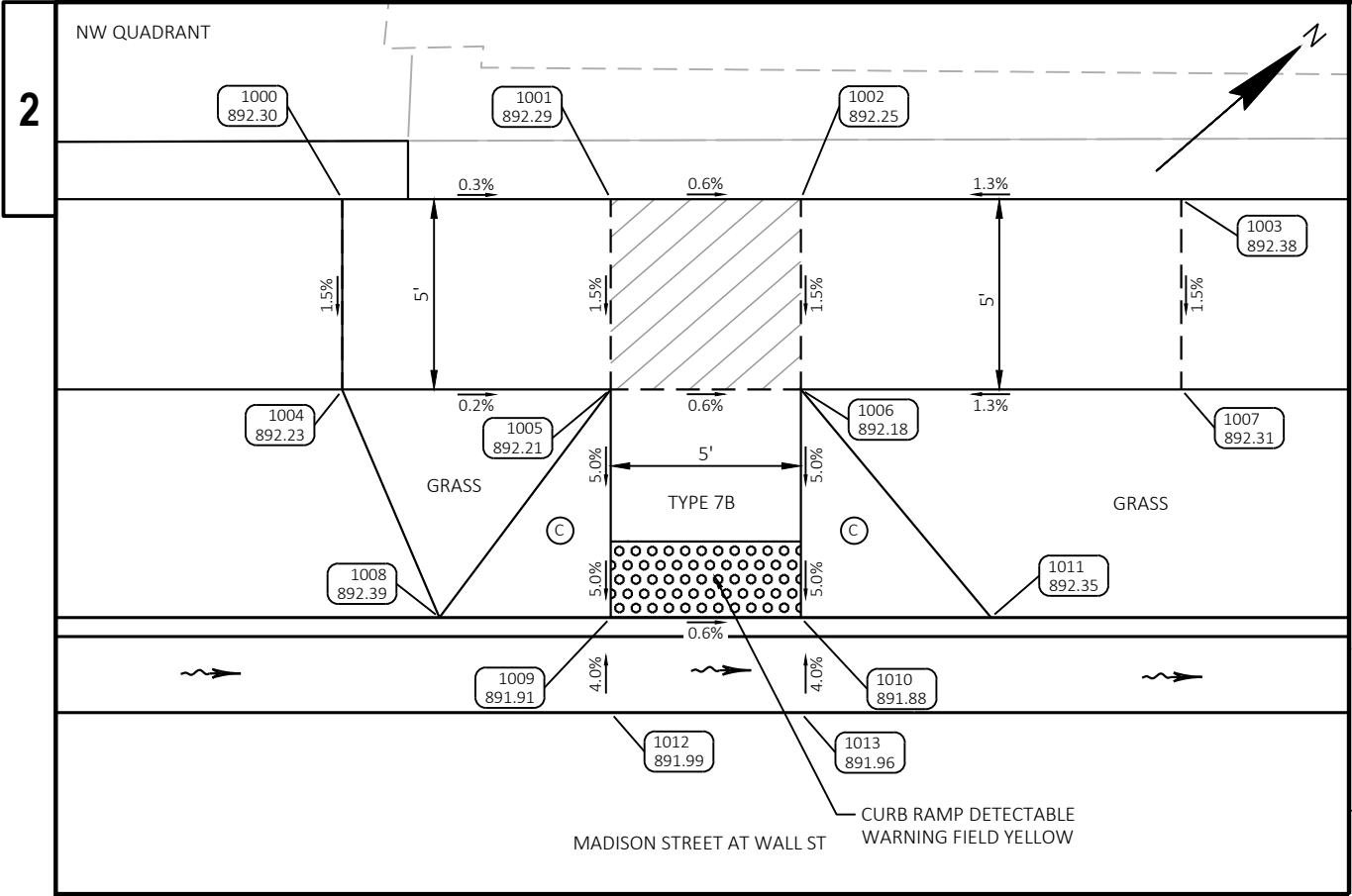
COUNTY: DODGE

CURB RAMP DETAILS: WALL STREET

SHEET

27

E



NW WALL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1000	110+14.61	31.50' LT	892.30	721341.63	845258.37
1001	110+21.67	31.50' LT	892.29	721346.97	845262.99
1002	110+26.67	31.50' LT	892.25	721350.74	845266.27
1003	110+36.67	31.50' LT	892.38	721358.30	845272.81
1004	110+14.61	26.48' LT	892.23	721338.34	845262.17
1005	110+21.67	26.50' LT	892.21	721343.69	845266.77
1006	110+26.67	26.50' LT	892.18	721347.47	845270.05
1007	110+36.67	26.50' LT	892.31	721355.03	845276.59
1008	110+17.17	20.50' LT	892.39	721336.36	845268.36
1009	110+21.67	20.50' LT	891.91	721339.76	845271.31
1010	110+26.67	20.50' LT	891.88	721343.54	845274.58
1011	110+31.67	20.50' LT	892.35	721347.32	845277.85
1012	110+21.67	18.00' LT	891.99	721338.13	845273.20
1013	110+26.67	18.00' LT	891.96	721341.91	845276.47

DETECTABLE WARNING FIELD RADIAL INFORMATION:
BACK OF CURB RADIUS = 24.50'
CURB RAMP LANDING LENGTH 'XR' = 7.28'
RADIAL WARNING FIELD AREA = 13.86 S.F.
RADIAL LONG CHORD DIMENSION = 6.65'

NE WALL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1100	109+97.37	47.84' RT	892.68	721276.65	845307.06
1101	109+98.53	36.67' RT	892.63	721284.85	845299.38
1102	110+01.69	30.12' RT	892.59	721291.52	845296.49
1103	110+04.15	26.94' RT	892.57	721295.46	845295.70
1104	110+06.52	24.61' RT	892.56	721298.77	845295.49
1105	110+13.23	20.34' RT	892.52	721306.65	845296.65
1106	110+21.41	18.15' RT	892.47	721314.27	845300.35
1107	110+24.22	18.00' RT	892.46	721316.48	845302.08
1108	110+26.67	18.00' RT	892.45	721318.34	845303.68
1109	110+01.46	35.93' RT	893.04	721287.54	845300.73
1110	110+03.77	31.50' RT	892.51	721292.19	845298.90
1111	110+08.15	26.50' RT	892.48	721298.78	845297.99
1112	110+12.25	23.62' RT	892.95	721303.75	845298.49
1113	110+16.79	21.65' RT	892.92	721308.47	845299.97
1114	110+21.67	20.63' RT	892.43	721312.84	845302.40
1115	110+26.67	20.50' RT	892.41	721316.70	845305.57

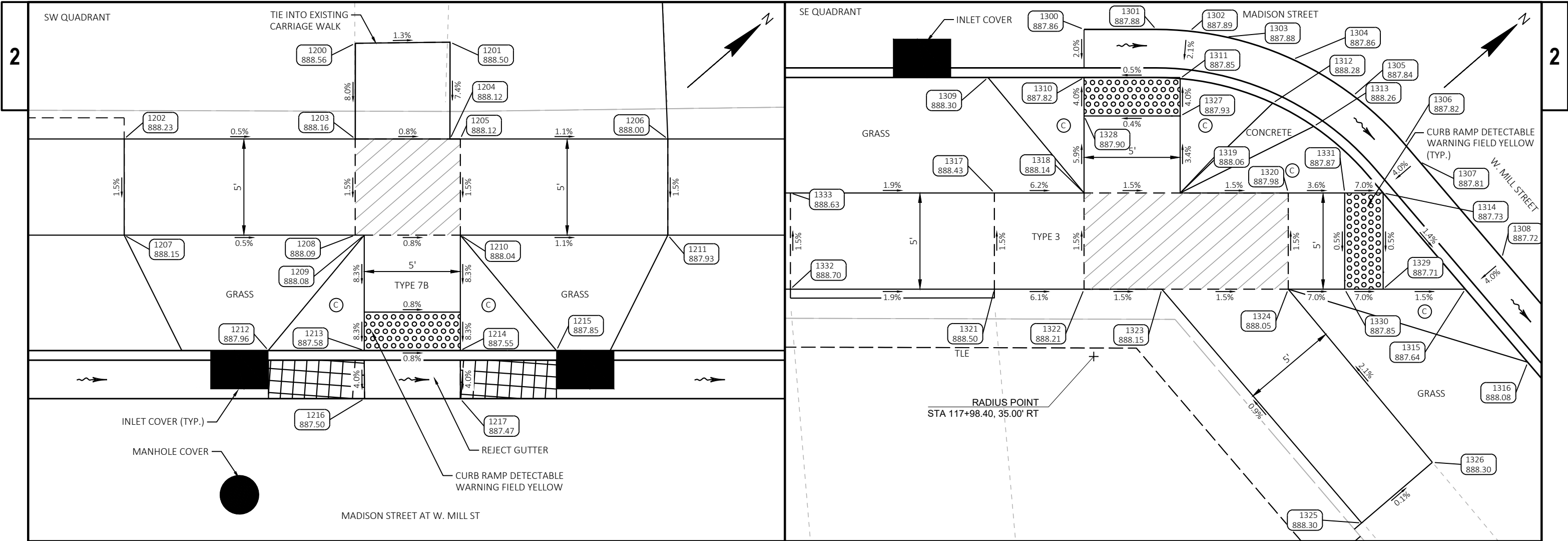
CURB RAMP DETAIL LEGEND

- LANDING AREA
- GUTTER SLOPE TRANSITION
- 10:1 CONCRETE FLARE
- CONCRETE CURB PEDESTRIAN
- POINT NUMBER & ELEVATION
- DRAINAGE DIRECTION

CURB RAMP DETAIL NOTES

- ALL CURB AND GUTTER ELEVATIONS ARE PROVIDED ON THE PAVING DETAIL SHEETS.
- ALL CURB RAMPS ARE TYPES 2 OR 3 UNLESS OTHERWISE NOTED.
- FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
- THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
- DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
- SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

NE WALL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1116	110+31.67	20.50' RT	892.88	721320.48	845308.85
1117	110+15.81	26.50' RT	892.59	721304.56	845303.00
1118	110+21.67	26.50' RT	892.75	721309.00	845306.84
1119	110+26.67	26.50' RT	892.83	721312.78	845310.11
1120	110+36.67	26.50' RT	892.99	721320.33	845316.66
1121	110+09.20	31.50' RT	892.59	721296.29	845302.45
1122	110+14.73	31.97' RT	892.68	721300.17	845306.43
1123	110+21.67	31.97' RT	892.84	721305.42	845310.97
1124	110+26.65	31.97' RT	892.91	721309.18	845314.23
1125	110+36.67	32.00' RT	892.91	721316.74	845320.81
1126	110+03.24	41.56' RT	893.09	721285.20	845306.16
1127	110+08.39	42.68' RT	892.97	721288.37	845310.37
1128	110+03.75	46.39' RT	893.30	721282.42	845310.14
1129	110+08.72	45.87' RT	893.04	721286.53	845313.00
1130	110+04.74	55.79' RT	893.11	721277.03	845317.90
1131	110+09.71	55.19' RT	893.26	721281.17	845320.69



- CURB RAMP DETAIL NOTES**
1. ALL CURB AND GUTTER ELEVATIONS ARE PROVIDED ON THE PAVING DETAIL SHEETS.
 2. ALL CURB RAMPS ARE TYPES 2 OR 3 UNLESS OTHERWISE NOTED.
 3. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
 4. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
 5. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
 6. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

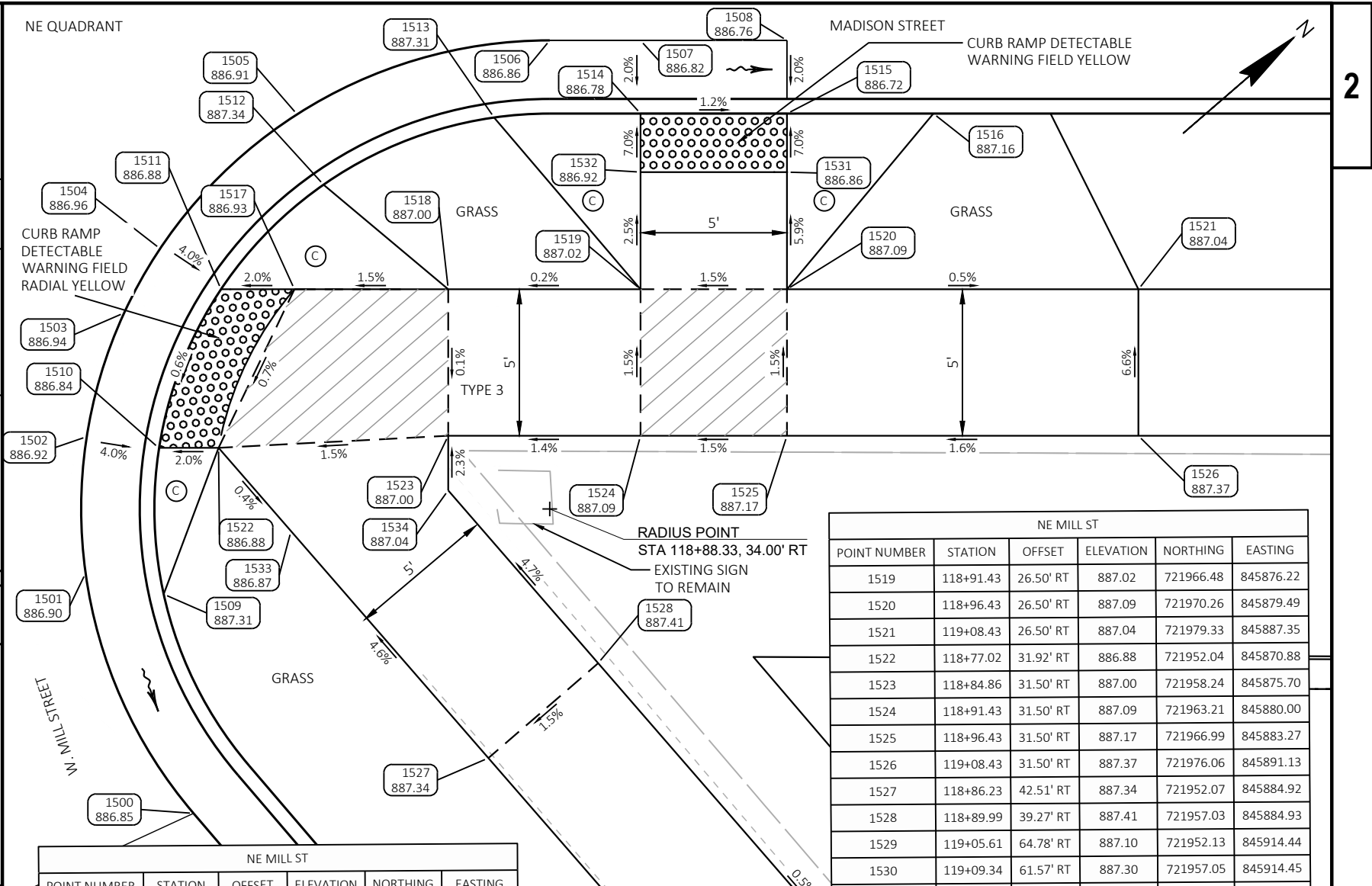
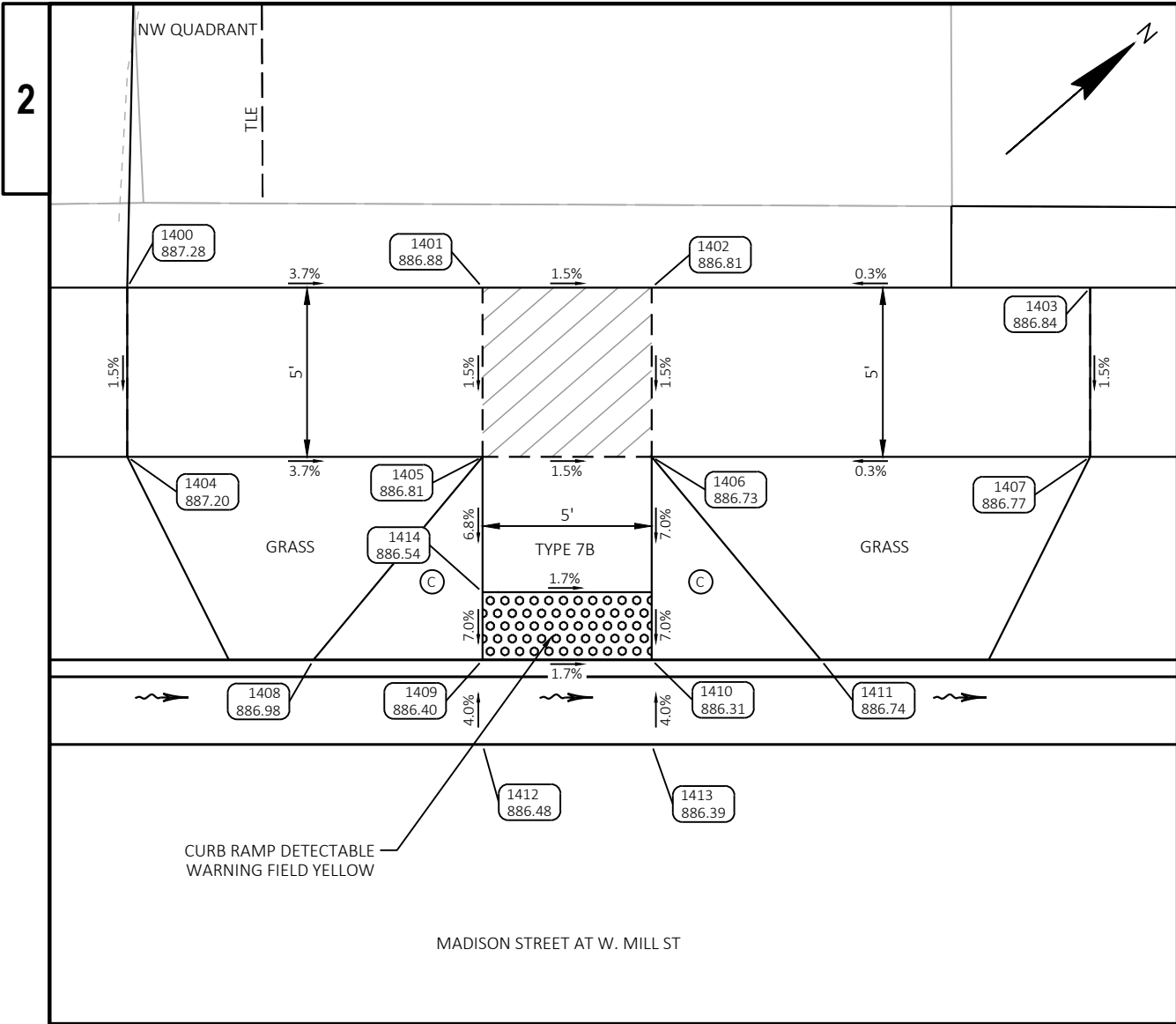
CURB RAMP DETAIL LEGEND

- LANDING AREA
- GUTTER SLOPE TRANSITION
- 10:1 CONCRETE FLARE
- CONCRETE CURB PEDESTRIAN
- POINT NUMBER & ELEVATION
- DRAINAGE DIRECTION

SW MILL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1200	117+94.18	36.47' LT	888.56	721934.19	845764.95
1201	117+99.12	36.53' LT	888.50	721937.96	845768.14
1202	117+82.16	31.50' LT	888.23	721921.85	845760.84
1203	117+94.19	31.50' LT	888.16	721930.94	845768.72
1204	117+99.12	31.50' LT	888.12	721934.66	845771.94
1205	117+99.65	31.50' LT	888.12	721935.07	845772.29
1206	118+10.45	31.50' LT	888.00	721943.23	845779.36
1207	117+82.16	26.50' LT	888.15	721918.58	845764.62
1208	117+94.18	26.50' LT	888.09	721927.66	845772.49
1209	117+94.65	26.50' LT	888.08	721928.02	845772.80
1210	117+99.65	26.50' LT	888.04	721931.80	845776.07
1211	118+10.45	26.50' LT	887.93	721939.96	845783.14
1212	117+89.66	20.50' LT	887.96	721920.32	845774.07
1213	117+94.65	20.50' LT	887.58	721924.09	845777.33
1214	117+99.65	20.50' LT	887.55	721927.87	845780.61
1215	118+04.65	20.50' LT	887.85	721931.65	845783.88
1216	117+94.67	18.00' LT	887.50	721922.47	845779.24
1217	117+99.65	18.00' LT	887.47	721926.23	845782.50

SE MILL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1300	117+94.65	18.00' RT	887.86	721898.89	845806.44
1301	117+98.40	18.00' RT	887.88	721901.72	845808.89
1302	118+00.15	18.09' RT	887.89	721902.98	845810.11
1303	118+02.04	18.39' RT	887.88	721904.21	845811.57
1304	118+05.51	19.56' RT	887.86	721906.08	845814.73
1305	118+08.66	21.44' RT	887.84	721907.22	845818.21
1306	118+11.32	23.95' RT	887.82	721907.59	845821.85
1307	118+12.11	24.88' RT	887.81	721907.58	845823.06
1308	118+16.39	29.88' RT	887.72	721907.54	845829.64
1309	117+89.65	20.50' RT	888.30	721893.47	845805.06
1310	117+94.65	20.50' RT	887.82	721897.25	845808.33
1311	117+99.65	20.55' RT	887.85	721900.99	845811.64
1312	118+04.47	21.83' RT	888.28	721903.80	845815.76
1313	118+06.60	23.04' RT	888.26	721904.62	845818.07

SE MILL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1314	118+10.21	26.50' RT	887.73	721905.08	845823.05
1315	118+14.49	31.50' RT	887.64	721905.04	845829.63
1316	118+17.74	35.30' RT	888.08	721905.01	845834.63
1317	117+89.99	26.50' RT	888.43	721889.79	845809.81
1318	117+94.65	26.50' RT	888.14	721893.32	845812.86
1319	117+99.65	26.50' RT	888.06	721897.10	845816.14
1320	118+05.28	26.50' RT	887.98	721901.35	845819.82
1321	117+89.99	31.50' RT	888.50	721886.52	845813.59
1322	117+94.65	31.50' RT	888.21	721890.05	845816.64
1323	117+98.70	31.50' RT	888.15	721893.11	845819.29
1324	118+05.28	31.50' RT	888.05	721898.08	845823.60
1325	118+09.09	43.65' RT	888.30	721893.01	845835.28
1326	118+12.78	40.50' RT	888.30	721897.85	845835.31
1327	117+99.65	22.50' RT	887.93	721899.72	845813.11



- CURB RAMP DETAIL NOTES**
- ALL CURB AND GUTTER ELEVATIONS ARE PROVIDED ON THE PAVING DETAIL SHEETS.
 - ALL CURB RAMPS ARE TYPES 2 OR 3 UNLESS OTHERWISE NOTED.
 - FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
 - THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
 - DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
 - SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

CURB RAMP DETAIL LEGEND

- LANDING AREA
- GUTTER SLOPE TRANSITION
- 10:1 CONCRETE FLARE
- CONCRETE CURB PEDESTRIAN
- POINT NUMBER & ELEVATION
- DRAINAGE DIRECTION

NW MILL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1400	118+80.93	31.50' LT	887.28	721996.51	845825.50
1401	118+91.43	31.50' LT	886.88	722004.45	845832.37
1402	118+96.43	31.50' LT	886.81	722008.23	845835.65
1403	119+09.39	31.50' LT	886.84	722018.03	845844.13
1404	118+80.93	26.50' LT	887.20	721993.24	845829.28
1405	118+91.43	26.50' LT	886.81	722001.18	845836.15
1406	118+96.43	26.50' LT	886.73	722004.95	845839.43
1407	119+09.39	26.50' LT	886.77	722014.75	845847.91
1408	118+86.43	20.50' LT	886.98	721993.47	845837.42
1409	118+91.43	20.50' LT	886.40	721997.25	845840.69
1410	118+96.43	20.50' LT	886.31	722001.03	845843.96
1411	119+01.43	20.50' LT	886.74	722004.81	845847.24
1412	118+91.43	18.00' LT	886.48	721995.61	845842.58
1413	118+96.43	18.00' LT	886.39	721999.39	845845.85
1414	118+91.43	22.50' LT	886.54	721998.56	845839.18

NE MILL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1500	118+76.17	44.40' RT	886.85	721943.23	845879.76
1501	118+72.48	36.20' RT	886.90	721945.81	845871.15
1502	118+72.52	31.53' RT	886.92	721948.89	845867.64
1503	118+73.80	27.31' RT	886.94	721952.62	845865.29
1504	118+75.03	25.11' RT	886.96	721954.99	845864.43
1505	118+79.70	20.53' RT	886.91	721961.52	845864.03
1506	118+88.33	18.00' RT	886.86	721969.70	845867.76
1507	118+91.43	18.00' RT	886.82	721972.04	845869.79
1508	118+96.43	18.00' RT	886.76	721975.82	845873.07
1509	118+75.15	36.91' RT	887.31	721947.35	845873.43
1510	118+74.98	31.92' RT	886.84	721950.50	845869.54
1511	118+77.11	26.50' RT	886.88	721955.65	845866.84
1512	118+80.61	22.93' RT	887.34	721960.63	845866.43
1513	118+86.43	20.63' RT	887.31	721966.54	845868.51
1514	118+91.43	20.50' RT	886.78	721970.41	845871.68
1515	118+96.43	20.50' RT	886.72	721974.19	845874.96
1516	119+01.43	20.50' RT	887.16	721977.97	845878.23
1517	118+79.61	26.50' RT	886.93	721957.55	845868.48
1518	118+84.86	26.50' RT	887.00	721961.52	845871.92

NE MILL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1519	118+91.43	26.50' RT	887.02	721966.48	845876.22
1520	118+96.43	26.50' RT	887.09	721970.26	845879.49
1521	119+08.43	26.50' RT	887.04	721979.33	845887.35
1522	118+77.02	31.92' RT	886.88	721952.04	845870.88
1523	118+84.86	31.50' RT	887.00	721958.24	845875.70
1524	118+91.43	31.50' RT	887.09	721963.21	845880.00
1525	118+96.43	31.50' RT	887.17	721966.99	845883.27
1526	119+08.43	31.50' RT	887.37	721976.06	845891.13
1527	118+86.23	42.51' RT	887.34	721952.07	845884.92
1528	118+89.99	39.27' RT	887.41	721957.03	845884.93
1529	119+05.61	64.78' RT	887.10	721952.13	845914.44
1530	119+09.34	61.57' RT	887.30	721957.05	845914.45
1531	118+96.43	22.50' RT	886.86	721972.88	845876.47
1532	118+91.43	22.50' RT	886.92	721969.10	845873.19
1533	118+79.50	34.76' RT	886.87	721952.05	845874.65
1534	118+84.86	33.37' RT	887.04	721957.02	845877.11
1535	119+02.32	61.01' RT	887.23	721952.12	845909.44
1536	119+06.06	57.80' RT	887.30	721957.05	845909.45

DETECTABLE WARNING FIELD RADIAL INFORMATION:
BACK OF CURB RADIUS = 13.50'
CURB RAMP LANDING LENGTH 'XR' = 4.63'
RADIAL WARNING FIELD AREA = 11.91 S.F.
RADIAL LONG CHORD DIMENSION = 5.81'

PROJECT NO: 6995-04-74

HWY: MADISON STREET

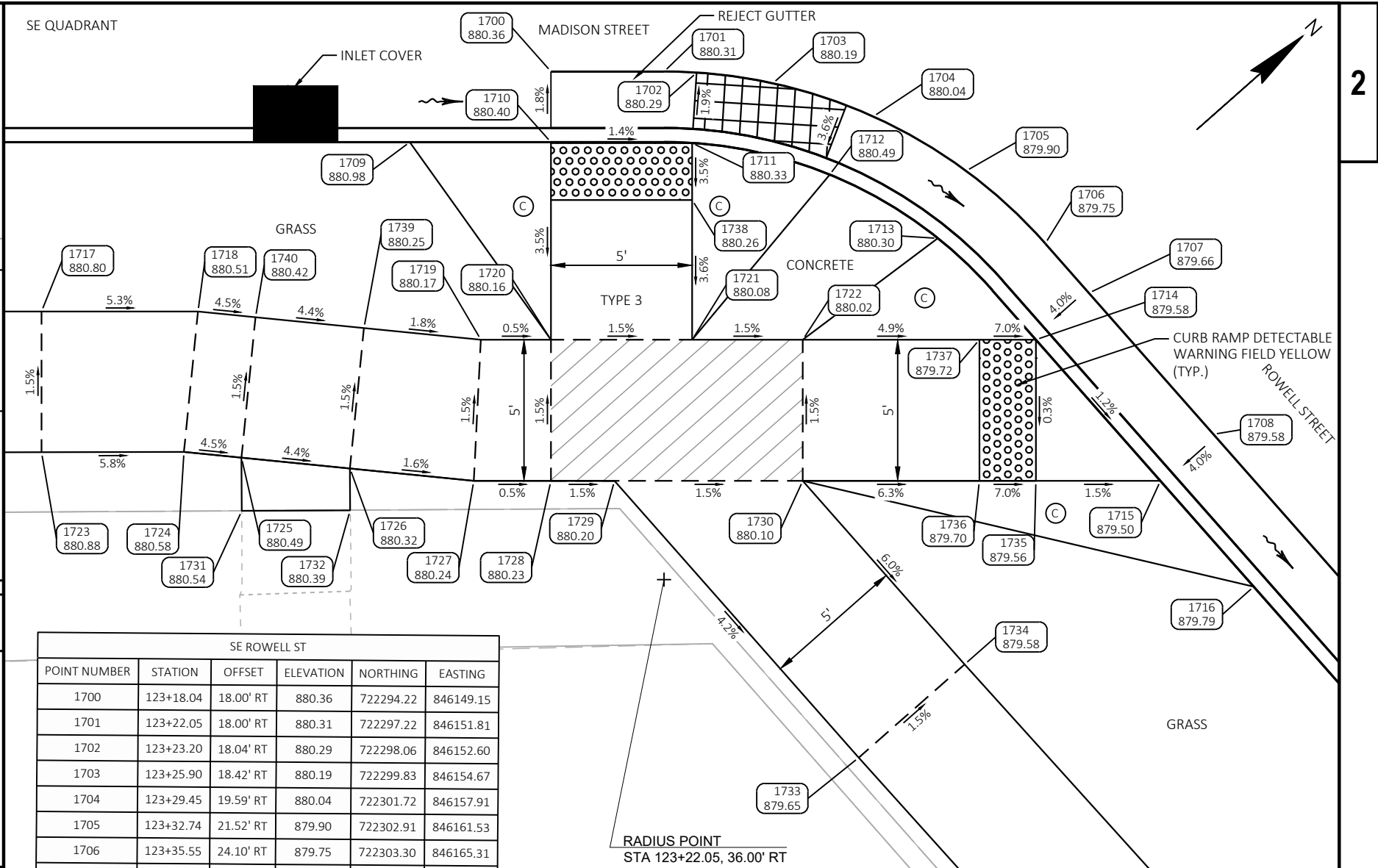
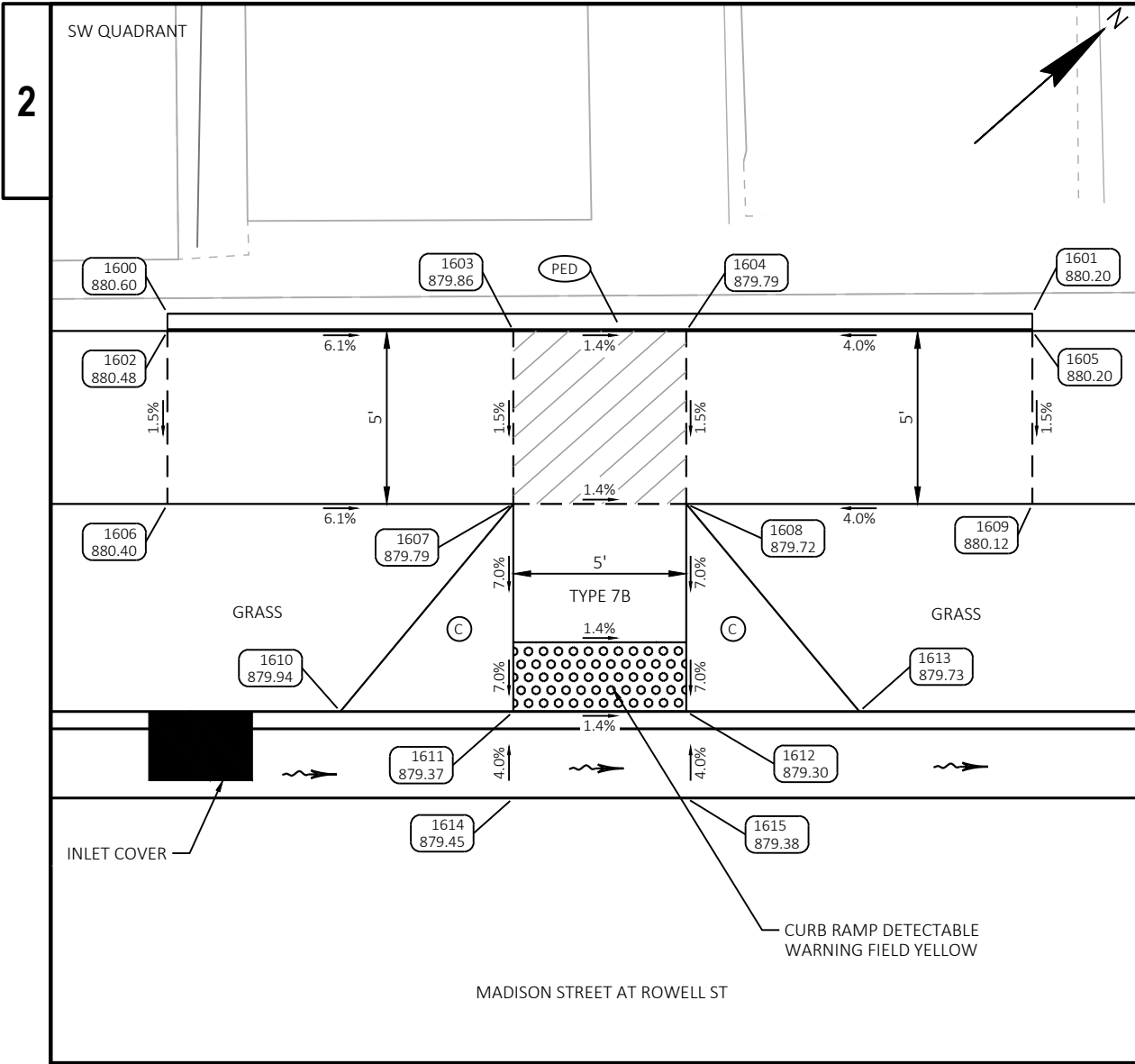
COUNTY: DODGE

CURB RAMP DETAILS: W. MILL STREET

SHEET

30

E



SE ROWELL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1700	123+18.04	18.00' RT	880.36	722294.22	846149.15
1701	123+22.05	18.00' RT	880.31	722297.22	846151.81
1702	123+23.20	18.04' RT	880.29	722298.06	846152.60
1703	123+25.90	18.42' RT	880.19	722299.83	846154.67
1704	123+29.45	19.59' RT	880.04	722301.72	846157.91
1705	123+32.74	21.52' RT	879.90	722302.91	846161.53
1706	123+35.55	24.10' RT	879.75	722303.30	846165.31
1707	123+37.09	25.85' RT	879.66	722303.30	846167.65
1708	123+41.50	30.85' RT	879.58	722303.30	846174.32
1709	123+13.04	20.50' RT	880.98	722288.82	846147.72
1710	123+18.04	20.50' RT	880.40	722292.57	846151.03
1711	123+23.04	20.53' RT	880.33	722296.29	846154.36
1712	123+27.91	21.65' RT	880.49	722299.20	846158.43
1713	123+31.74	23.91' RT	880.30	722300.58	846162.65
1714	123+35.22	27.50' RT	879.58	722300.80	846167.65
1715	123+39.62	32.50' RT	879.50	722300.80	846174.31
1716	123+42.93	36.25' RT	879.79	722300.79	846179.31
1717	123+00.00	26.50' RT	880.80	722275.07	846143.58
1718	123+05.54	26.50' RT	880.51	722279.23	846147.25
1719	123+15.56	27.50' RT	880.17	722286.07	846154.63
1720	123+18.04	27.50' RT	880.16	722287.93	846156.27
1721	123+23.04	27.50' RT	880.08	722291.68	846159.58
1722	123+26.96	27.50' RT	880.02	722294.61	846162.18
1723	123+00.00	31.48' RT	880.88	722271.77	846147.31
1724	123+05.04	31.48' RT	880.58	722275.56	846150.65
1725	123+07.08	31.68' RT	880.49	722276.95	846152.15

SE ROWELL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1726	123+10.92	32.06' RT	880.32	722279.58	846154.98
1727	123+15.31	32.50' RT	880.24	722282.57	846158.21
1728	123+18.04	32.50' RT	880.23	722284.62	846160.02
1729	123+20.29	32.50' RT	880.20	722286.31	846161.51
1730	123+26.96	32.50' RT	880.10	722291.30	846165.93
1731	123+07.09	33.56' RT	880.54	722275.71	846153.57
1732	123+10.93	33.54' RT	880.39	722278.60	846156.09
1733	123+28.94	42.31' RT	879.65	722286.30	846174.59
1734	123+32.69	39.00' RT	879.58	722291.30	846174.59
1735	123+35.22	32.50' RT	879.56	722297.49	846171.39
1736	123+33.21	32.50' RT	879.70	722295.99	846170.07
1737	123+33.21	27.50' RT	879.72	722299.30	846166.32
1738	123+23.04	22.55' RT	880.26	722294.96	846155.88
1739	123+11.42	27.09' RT	880.25	722283.24	846151.58
1740	123+07.58	26.70' RT	880.42	722280.62	846148.75

CURB RAMP DETAIL NOTES

1. ALL CURB AND GUTTER ELEVATIONS ARE PROVIDED ON THE PAVING DETAIL SHEETS.

2. ALL CURB RAMPS ARE TYPES 2 OR 3 UNLESS OTHERWISE NOTED.

3. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

4. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.

5. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.

6. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

CURB RAMP DETAIL LEGEND

LANDING AREA

GUTTER SLOPE TRANSITION

C

10:1 CONCRETE FLARE

PED

CONCRETE CURB PEDESTRIAN

XXXX
YYY.YY

POINT NUMBER & ELEVATION

DRAINAGE DIRECTION

SW ROWELL ST					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1600	123+08.04	32.00' LT	880.60	722319.83	846105.06
1601	123+33.04	32.00' LT	880.20	722338.57	846121.62
1602	123+08.04	31.50' LT	880.48	722319.50	846105.44
1603	123+18.04	31.50' LT	879.86	722327.00	846112.06
1604	123+23.04	31.50' LT	879.79	722330.74	846115.37
1605	123+33.04	31.50' LT	880.20	722338.24	846121.99
1606	123+08.04	26.50' LT	880.40	722316.19	846109.19
1607	123+18.04	26.50' LT	879.79	722323.69	846115.81
1608	123+23.04	26.50' LT	879.72	722327.43	846119.12
1609	123+33.04	26.50' LT	880.12	722334.93	846125.74
1610	123+13.04	20.50' LT	879.94	722315.97	846116.99
1611	123+18.04	20.50' LT	879.37	722319.71	846120.30
1612	123+23.04	20.50' LT	879.30	722323.46	846123.61
1613	123+28.04	20.50' LT	879.73	722327.21	846126.92
1614	123+18.04	18.00' LT	879.45	722318.06	846122.18
1615	123+23.04	18.00' LT	879.38	722321.80	846125.49

PROJECT NO: 6995-04-74

HWY: MADISON STREET

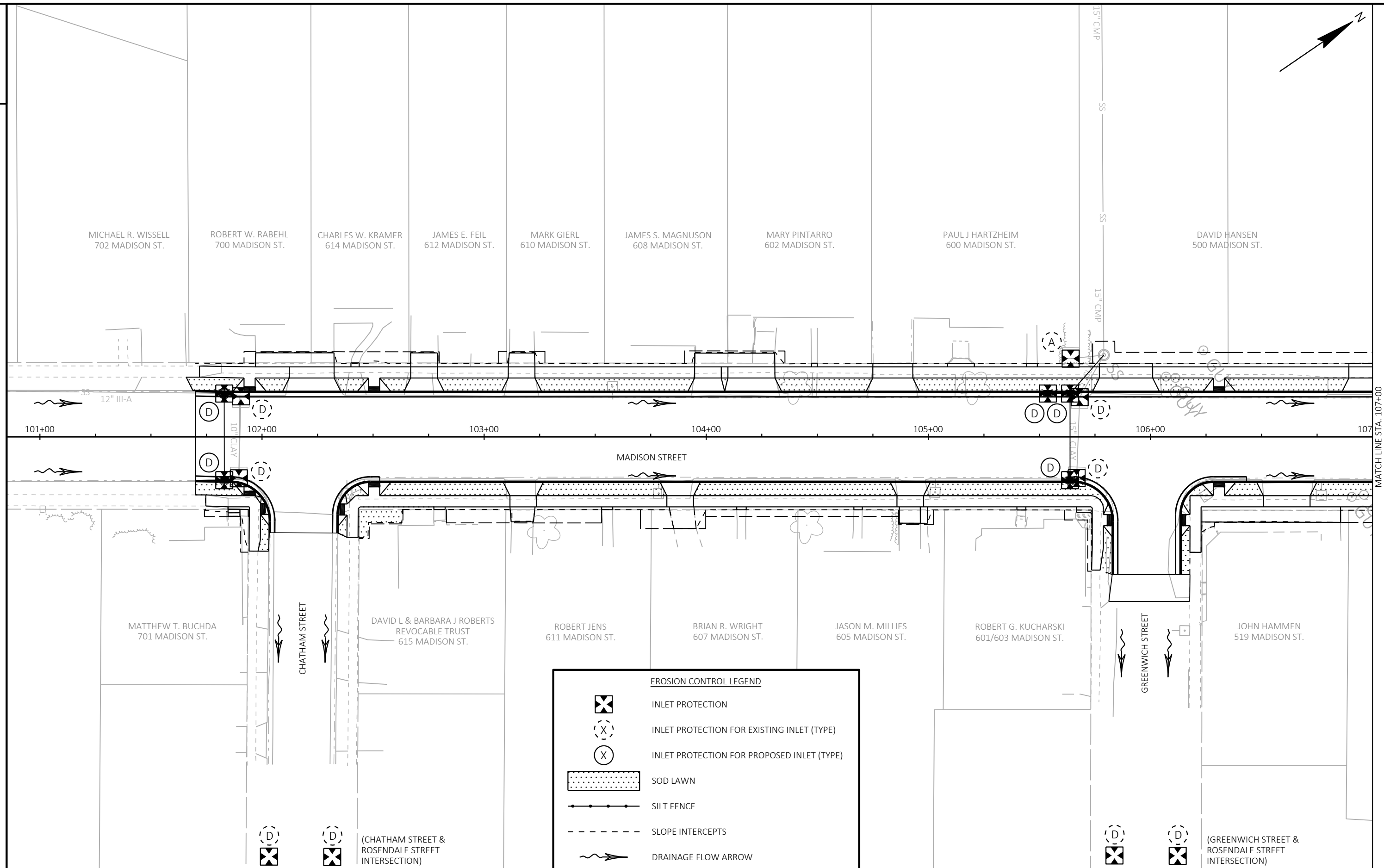
COUNTY: DODGE

CURB RAMP DETAILS: ROWELL STREET

SHEET

2

2 |



PROJECT NO:	6995-04-74
-------------	------------

HWY: MADISON STREET

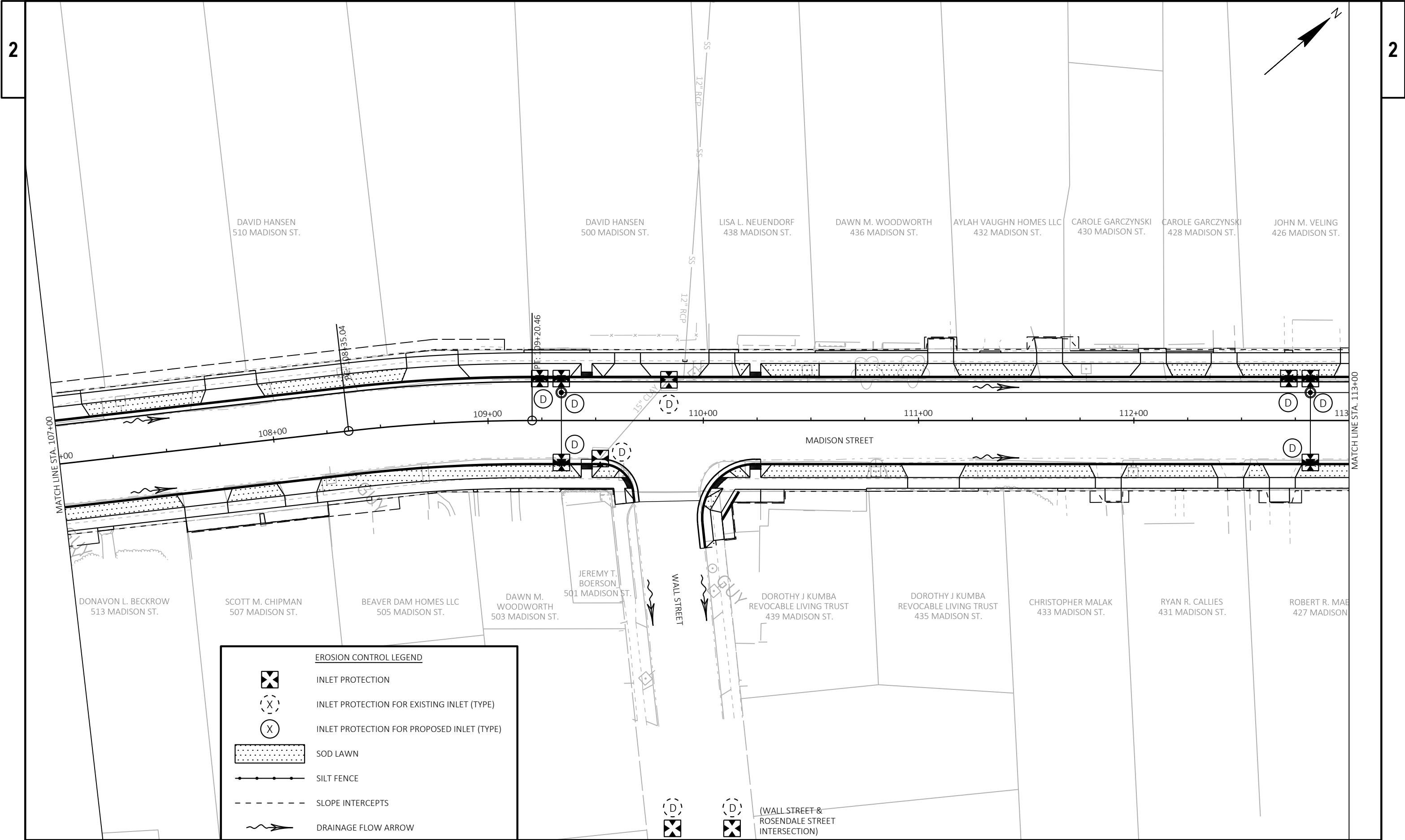
COUNTY: DODGE

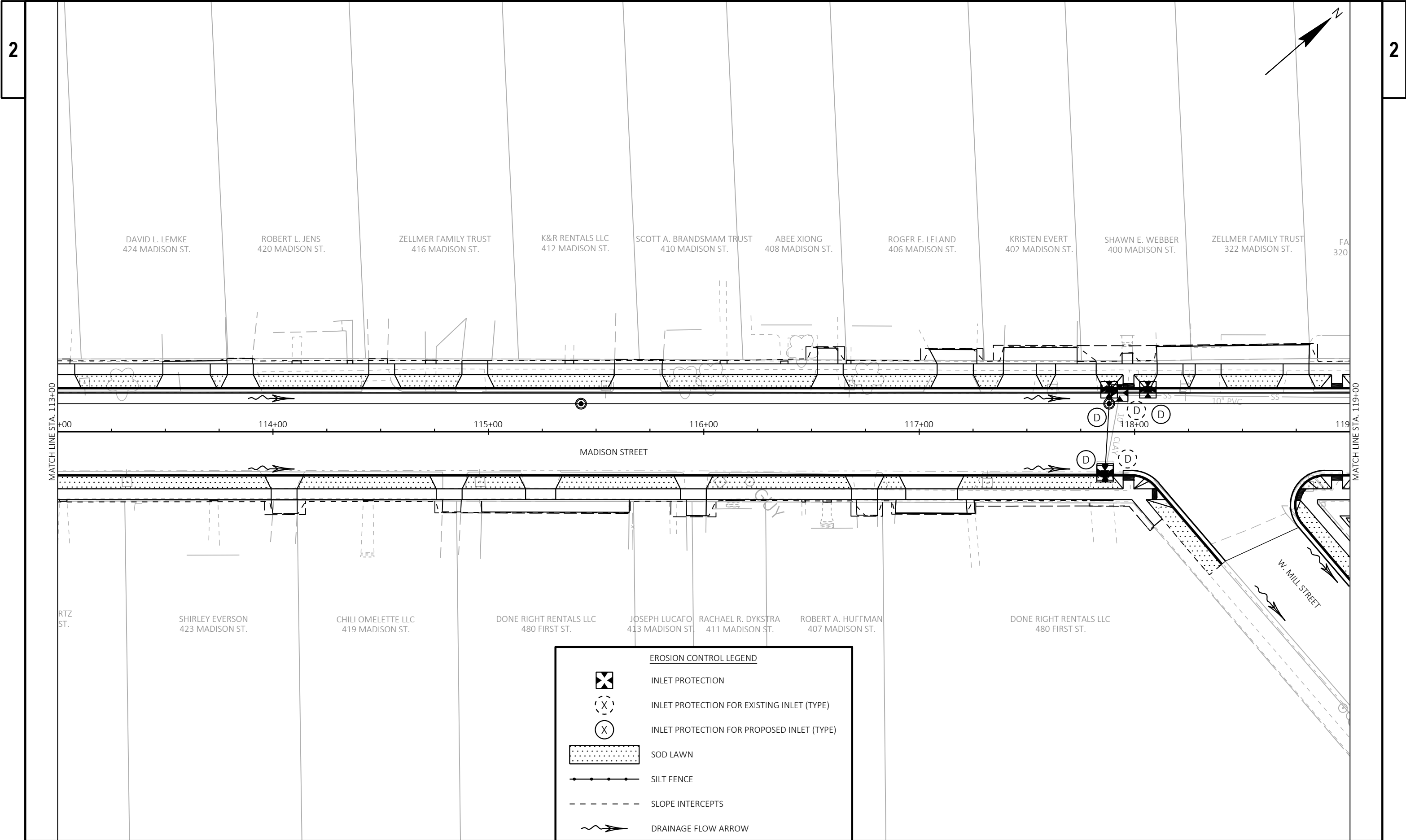
EROSION CONTROL

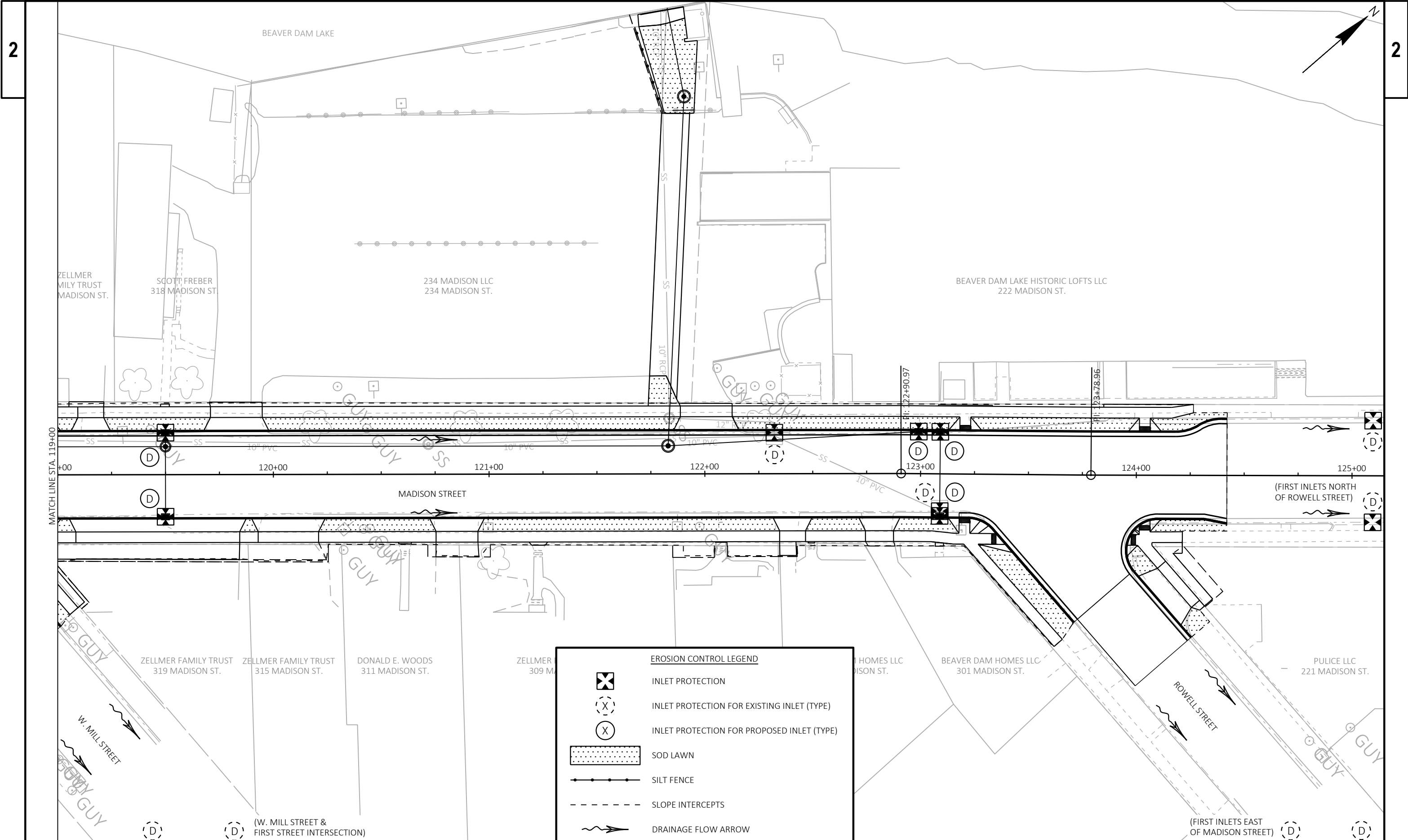
SHEET

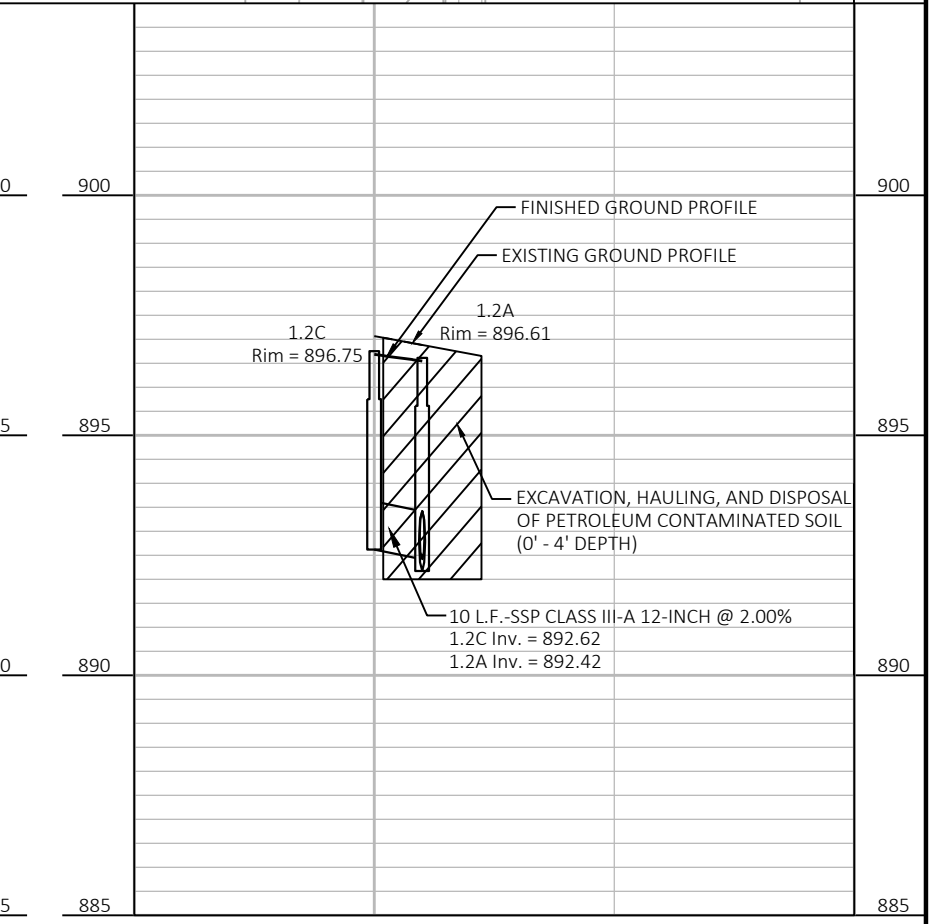
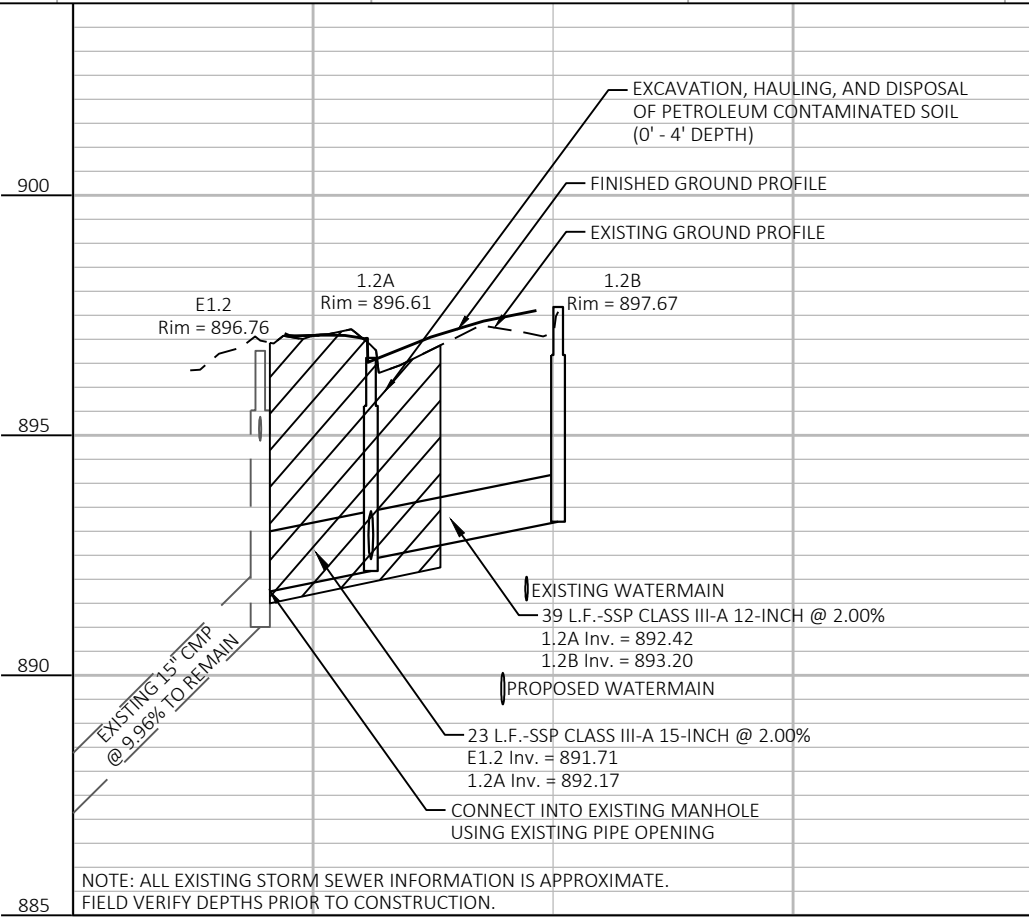
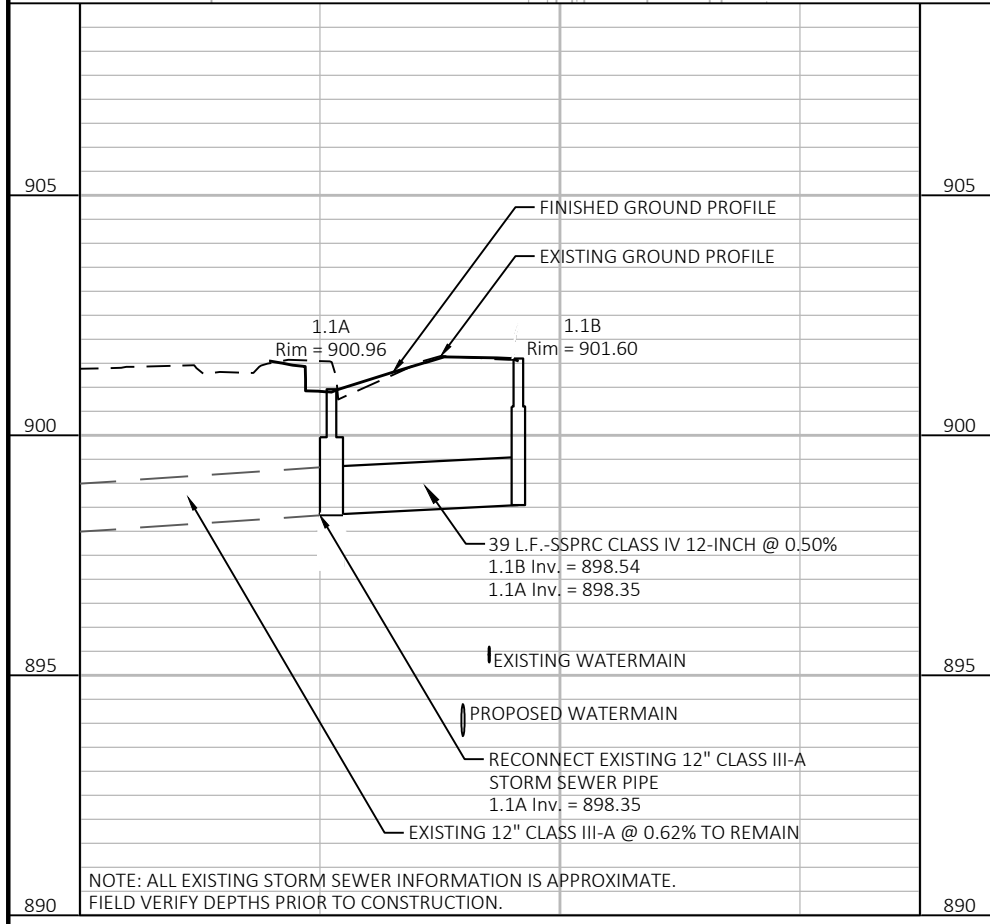
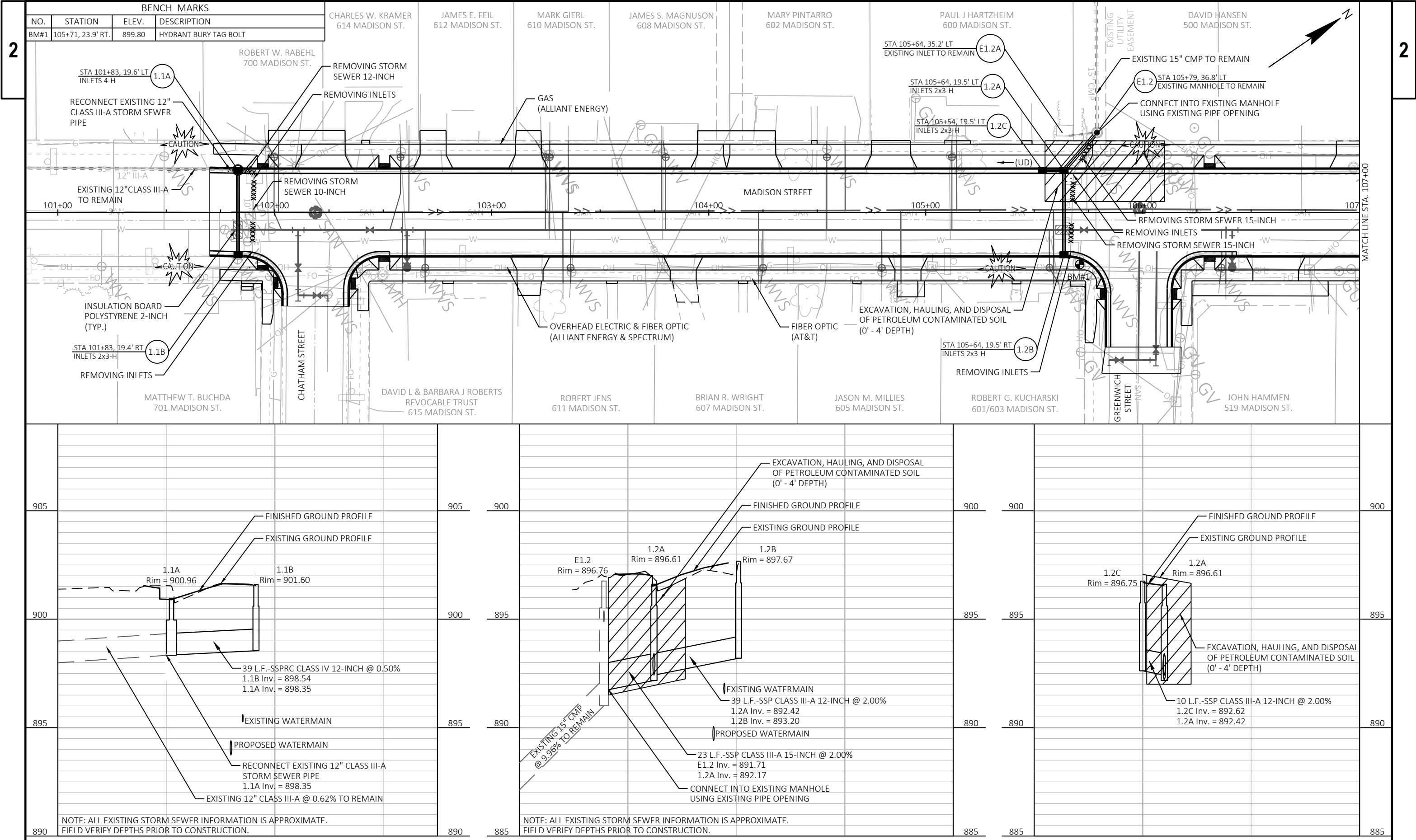
33

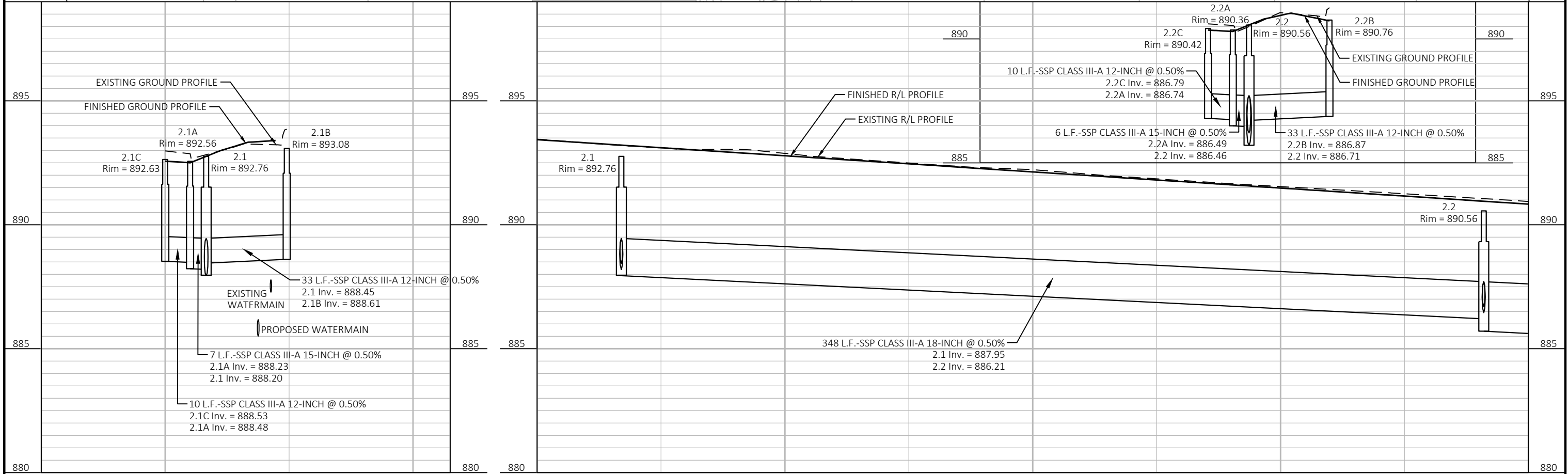
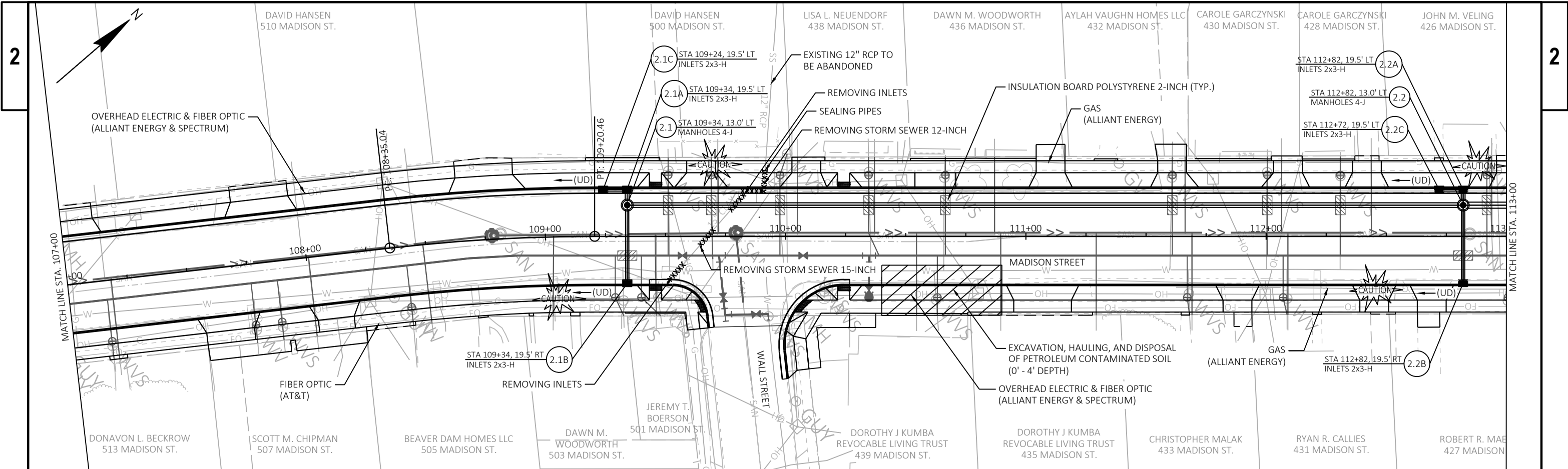
11

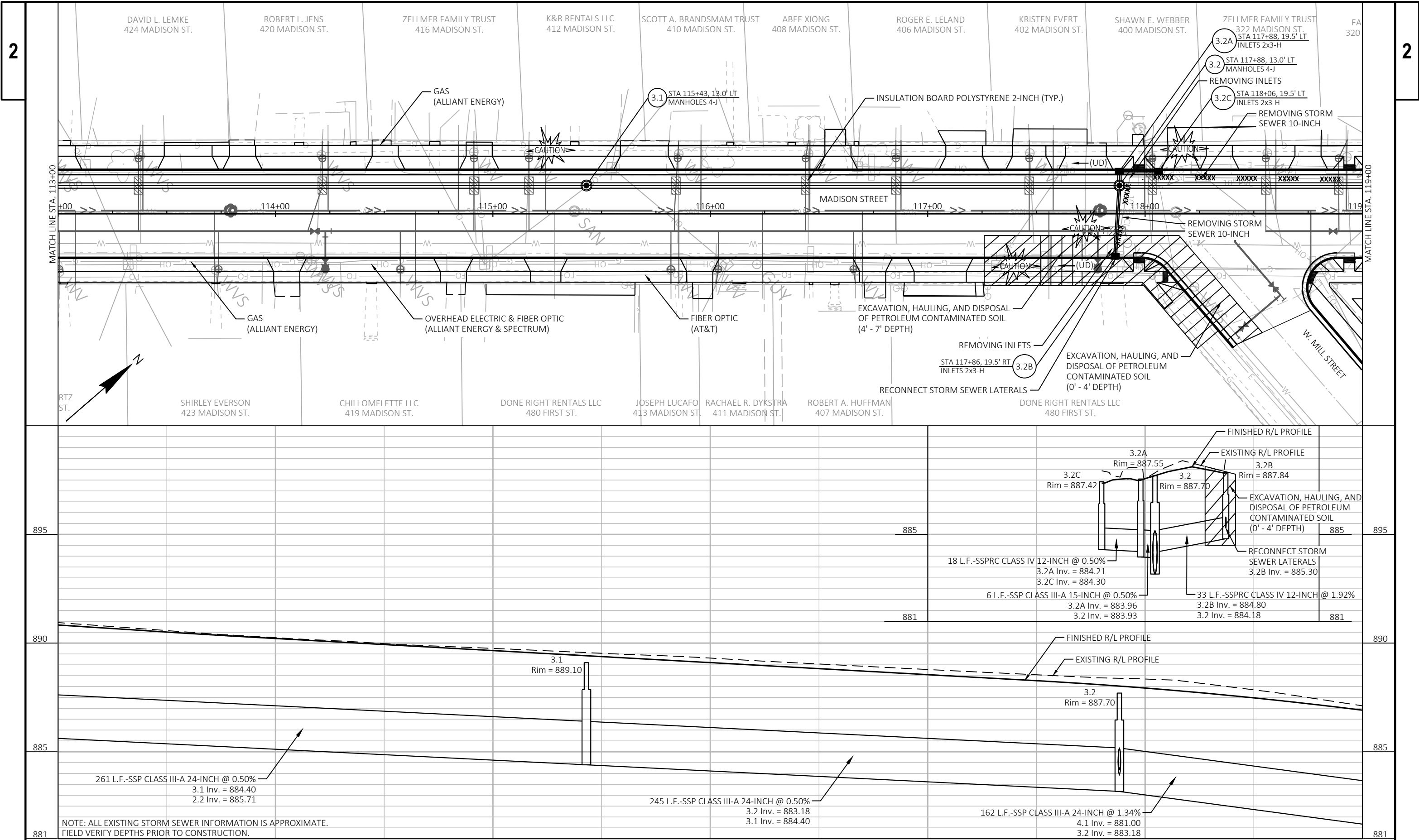


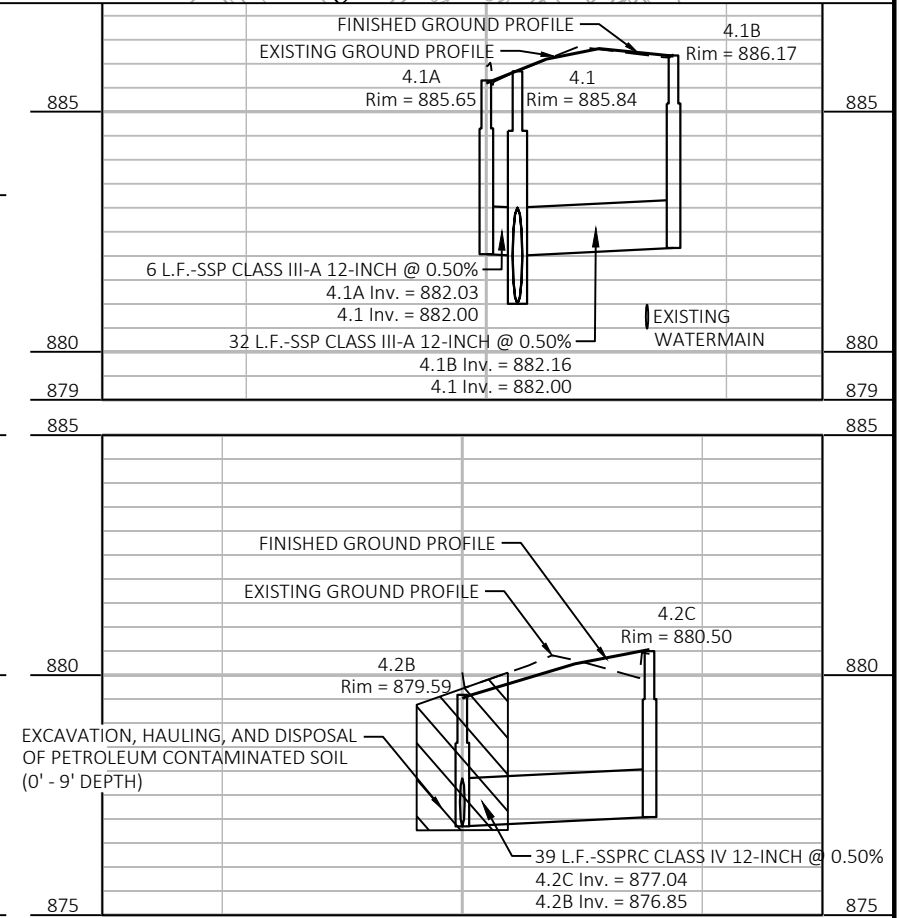
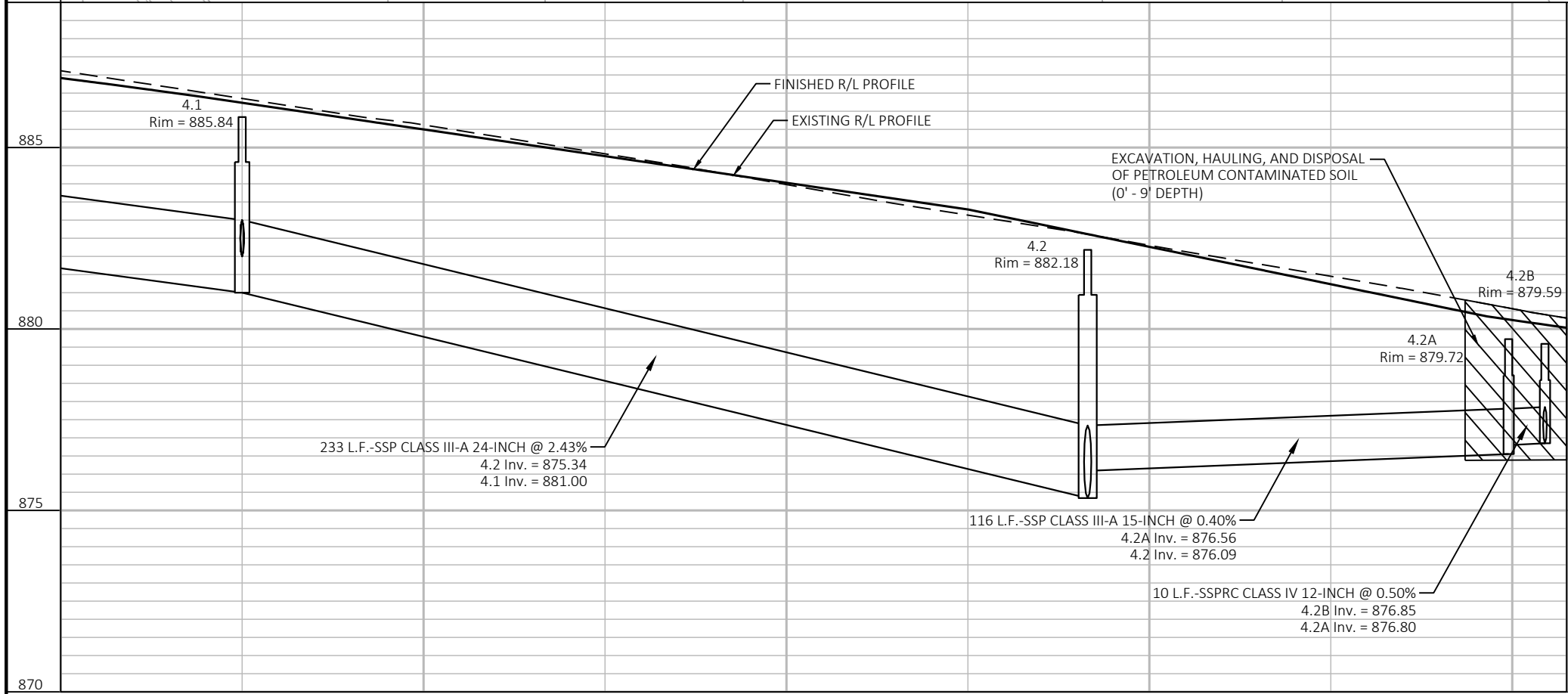
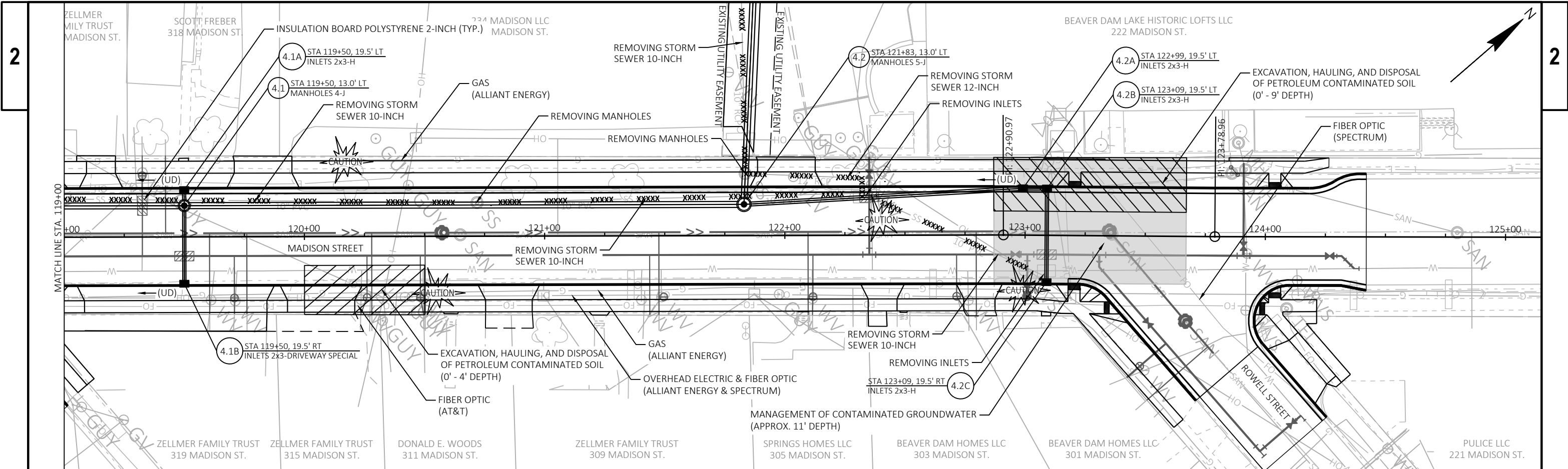






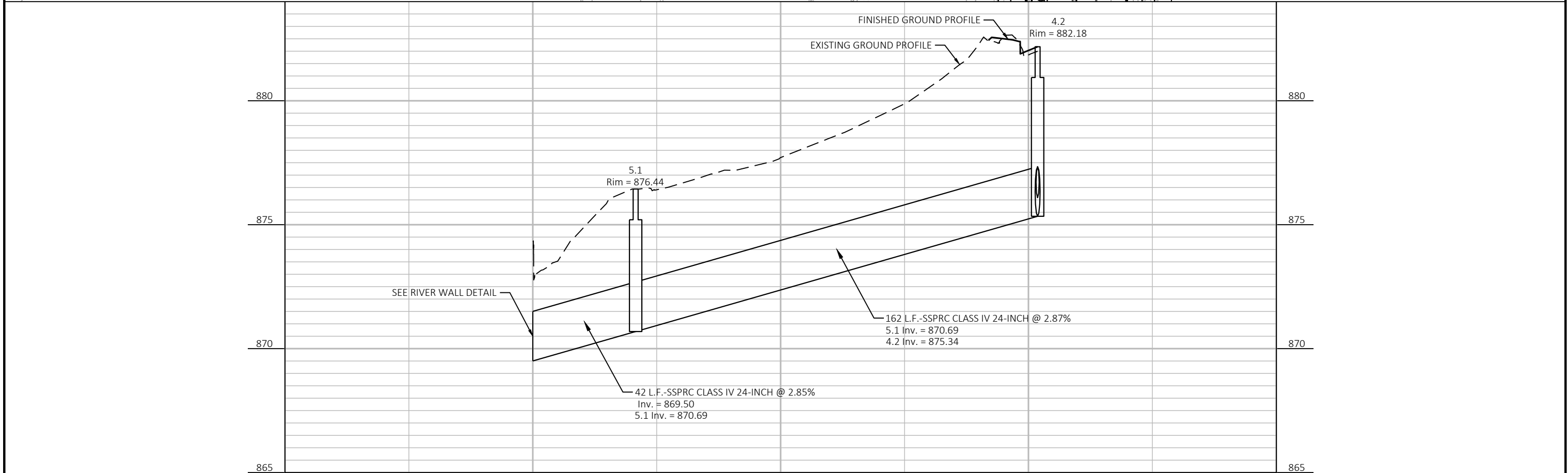
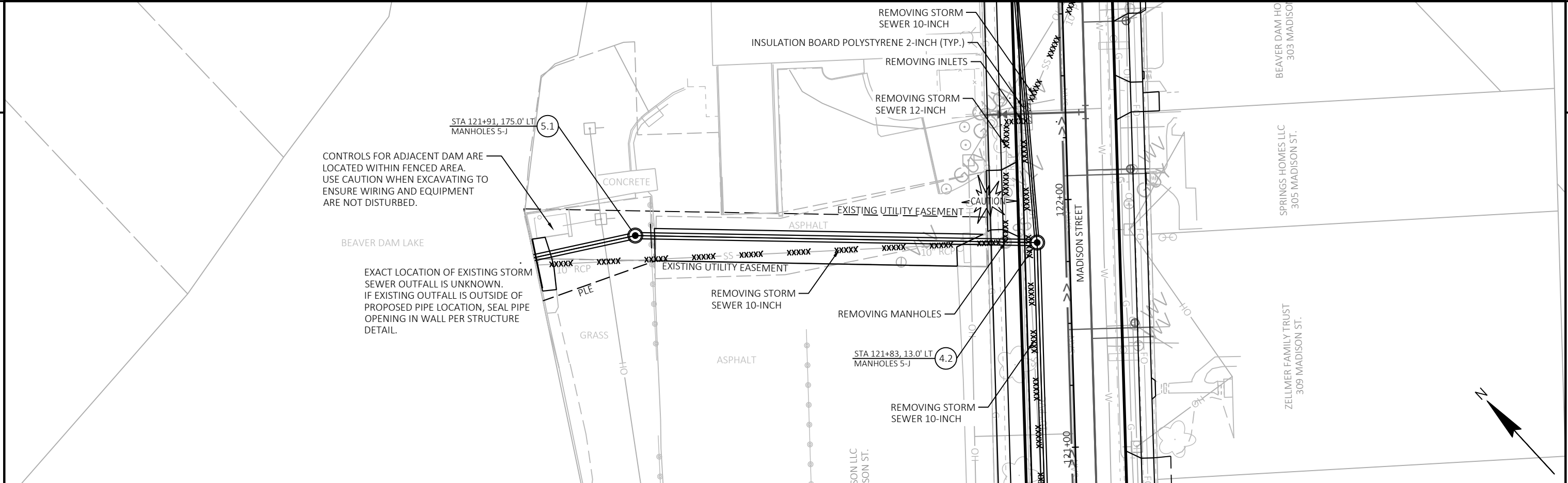






2

2



PROJECT NO:	6995-04-74
-------------	------------

HWY: MADISON STREET

COUNTY: DODGE

STORM SEWER

SHEET	41	E
-------	----	---

E

FILE NAME : G:\00\00218\00218251\CADD\C3D\69950474\DSGN\PIPE\STORM SEWER.DWG
LAYOUT NAME - 022505-ss

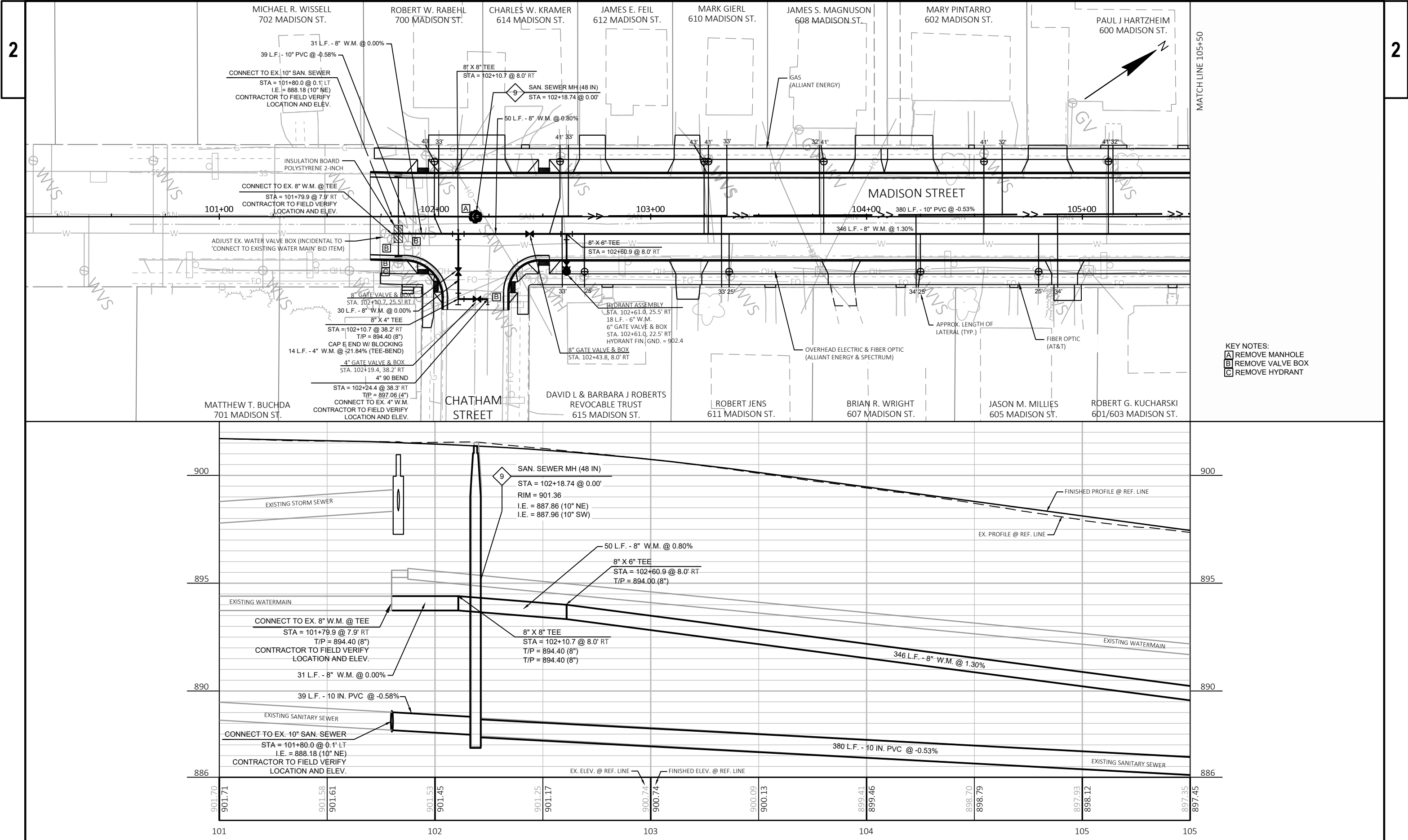
PLOT DATE : 6/25/2025 7:17 AM PLOT BY : JASON DOLENS

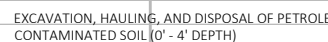
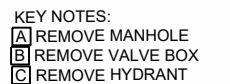
PLOT BY: JASON DOLENS

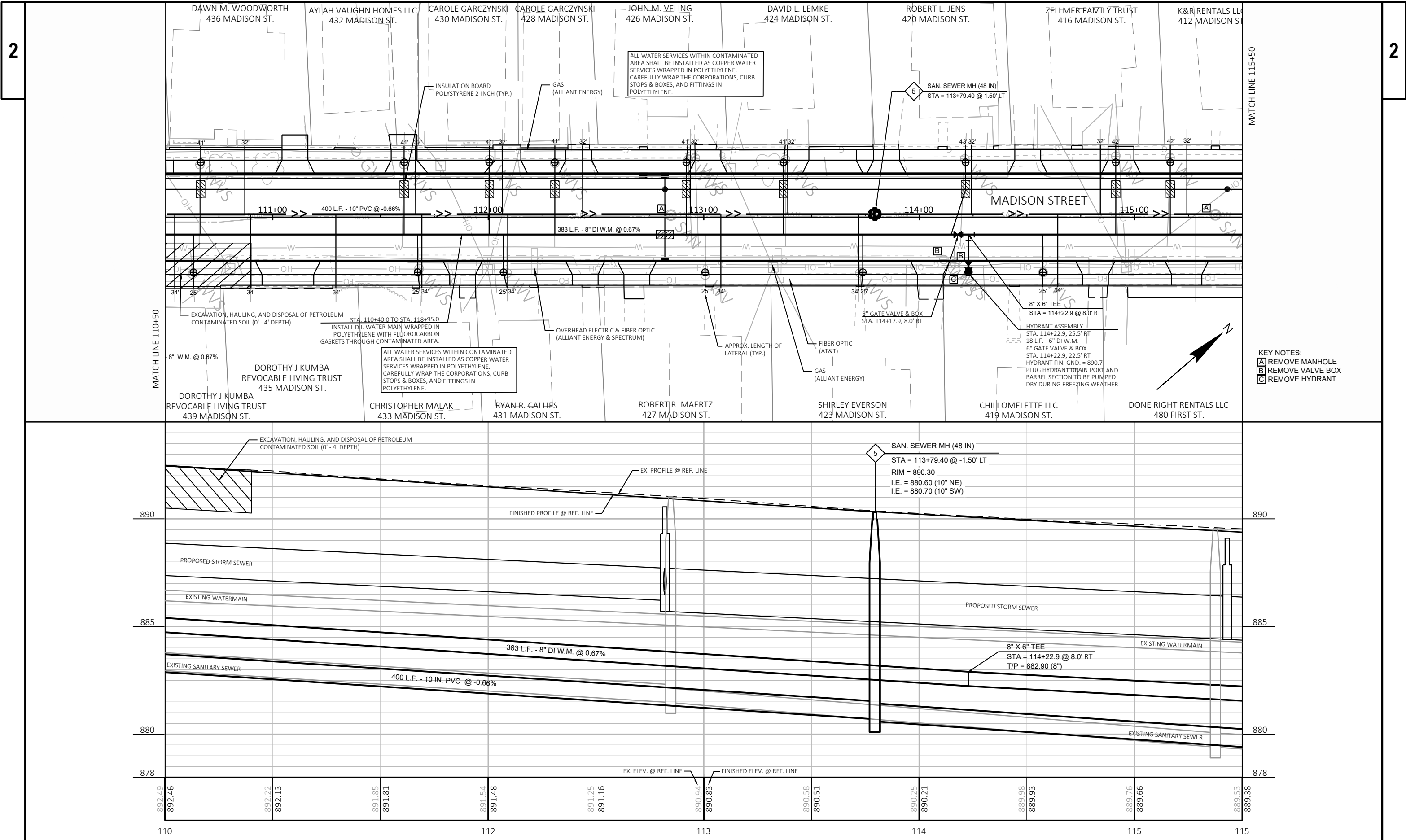
PLOT NAME : PLOT SCALE : 1 IN:40 FT

PLOT SCALE : 1 IN:40 FT

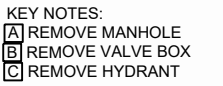
WISDOT/CADDS SHEET 41





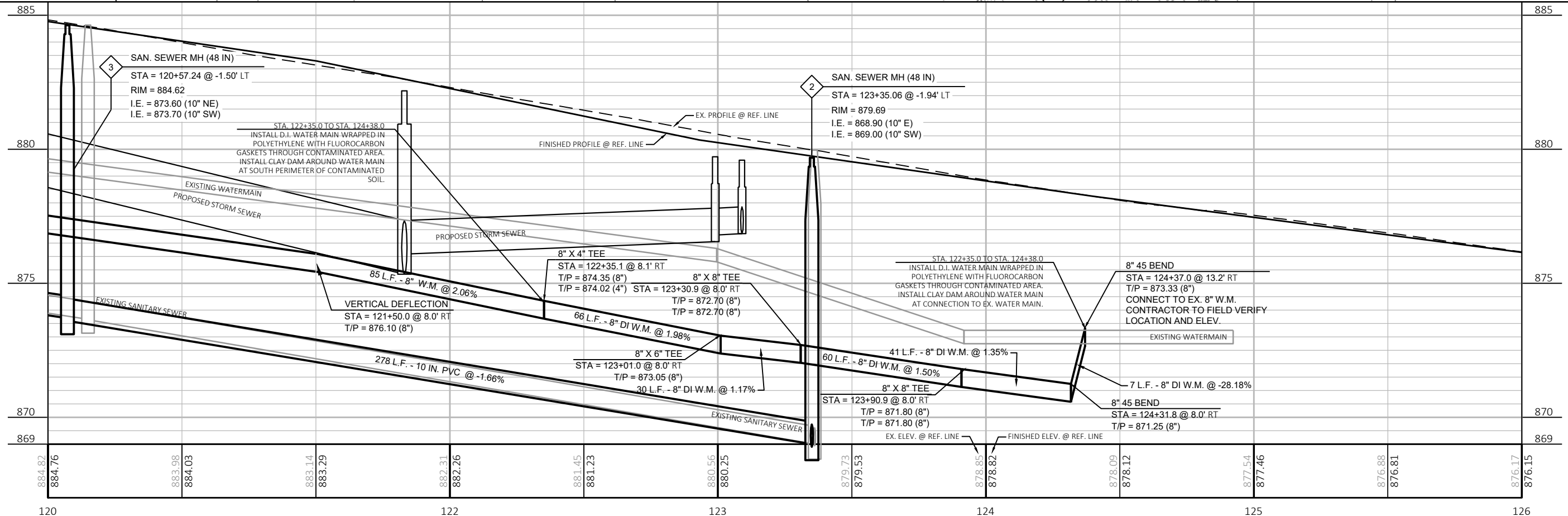
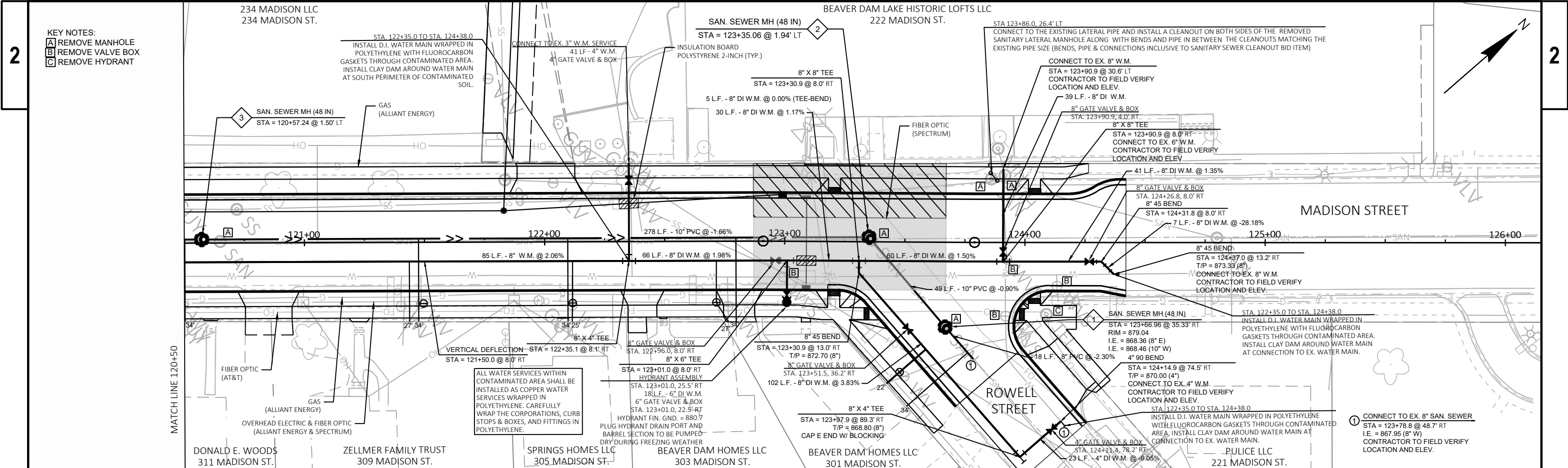


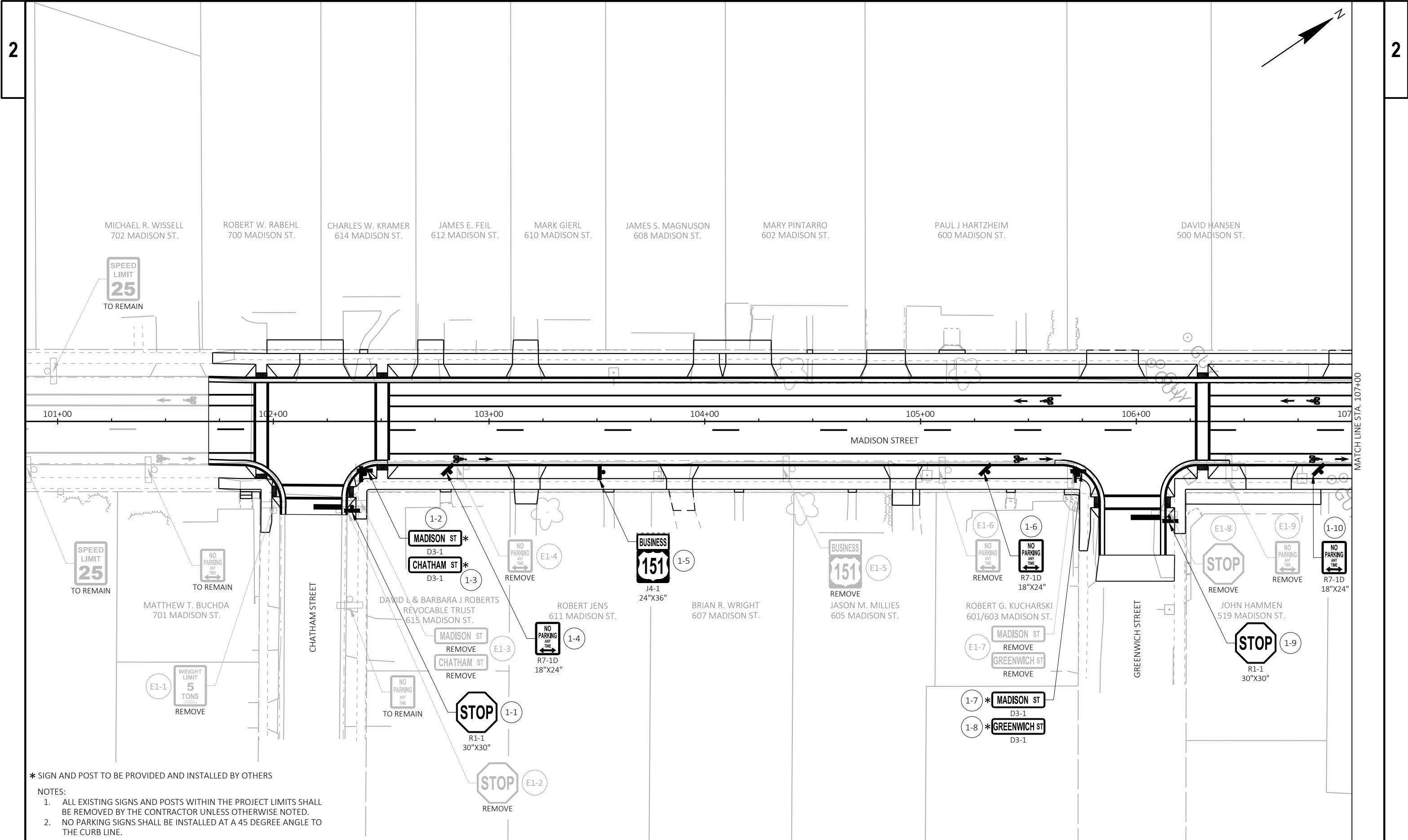
2



SHEET

1

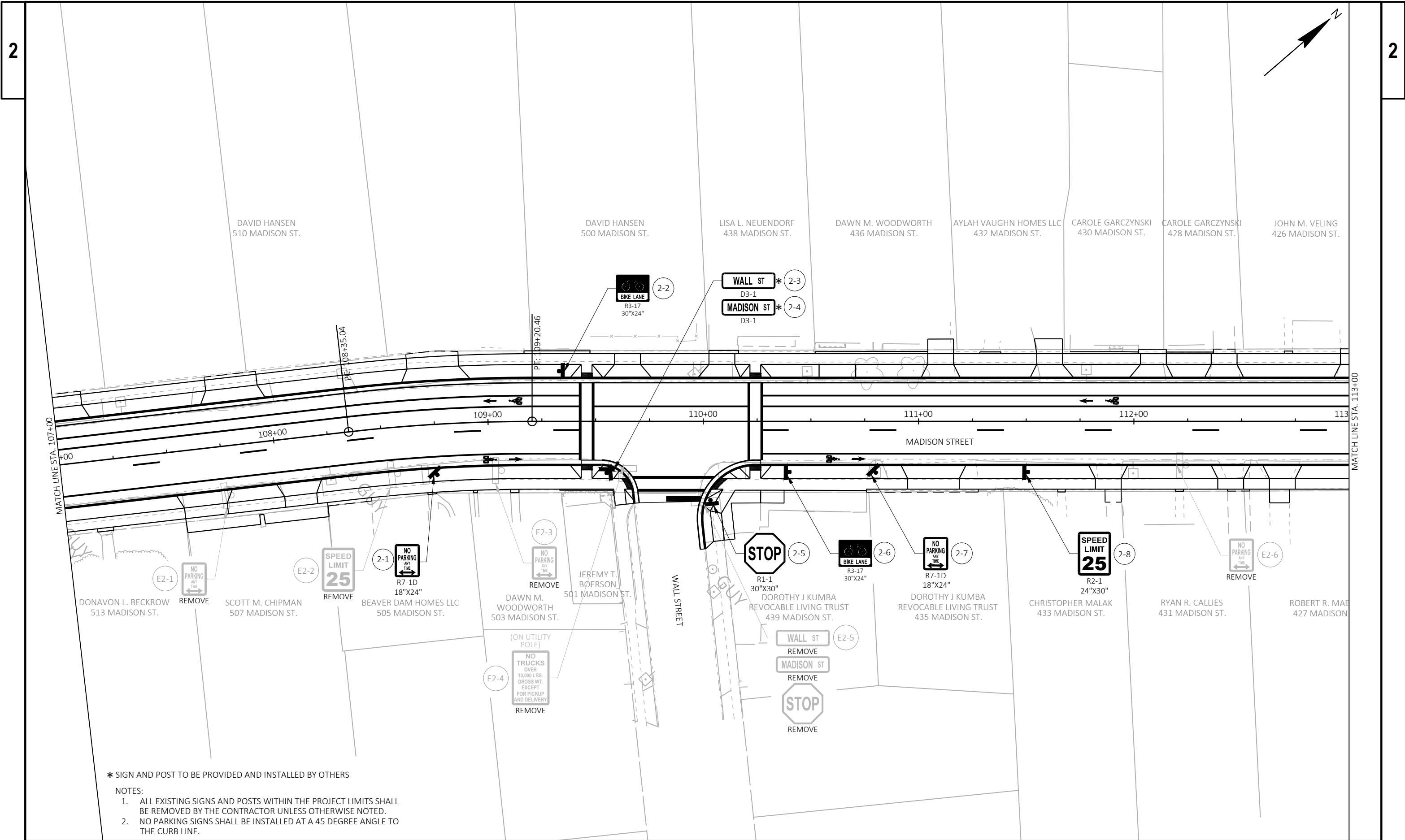




* SIGN AND POST TO BE PROVIDED AND INSTALLED BY OTHERS

NOTES:

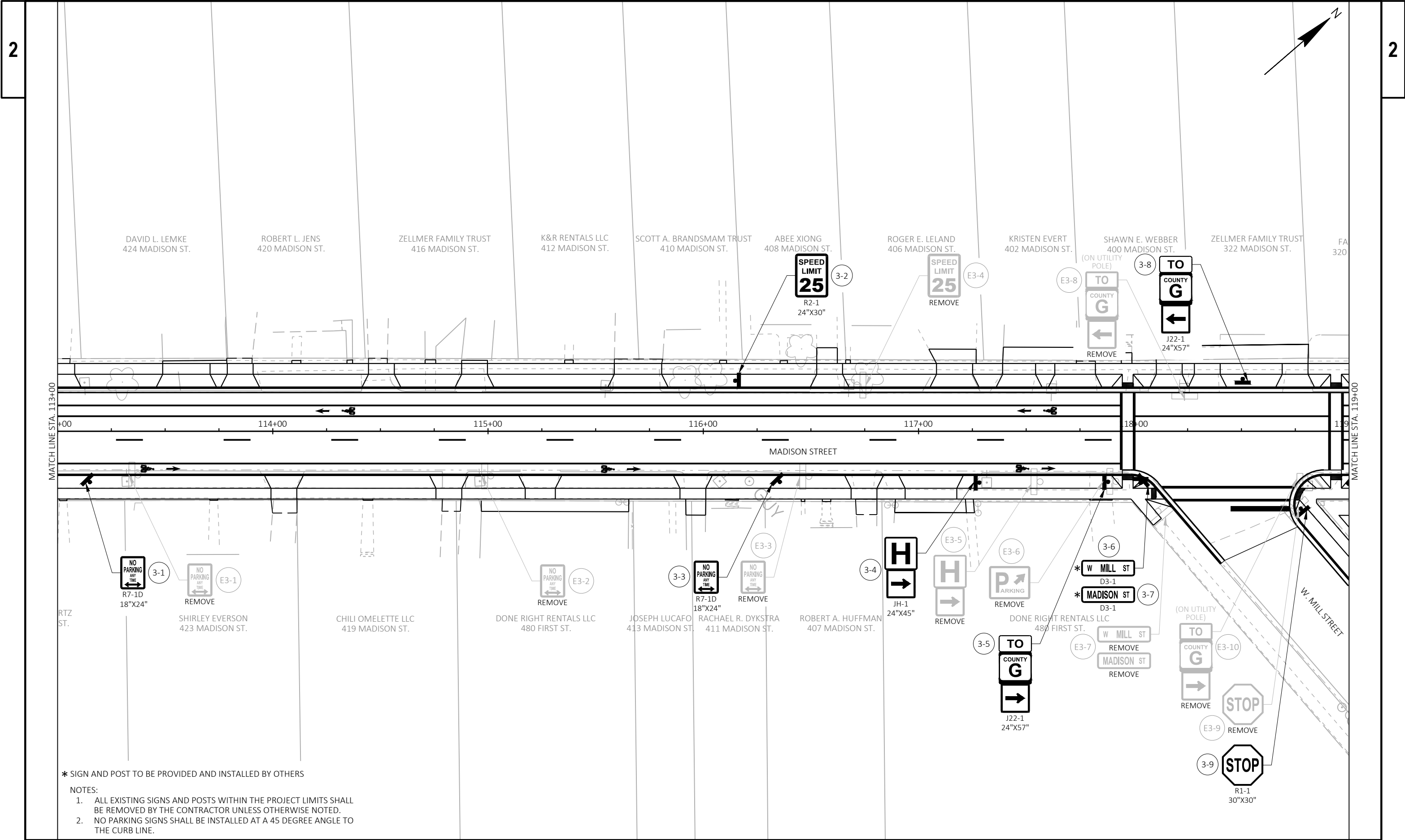
- 1. ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 2. NO PARKING SIGNS SHALL BE INSTALLED AT A 45 DEGREE ANGLE TO THE CURB LINE.



* SIGN AND POST TO BE PROVIDED AND INSTALLED BY OTHERS

NOTES:

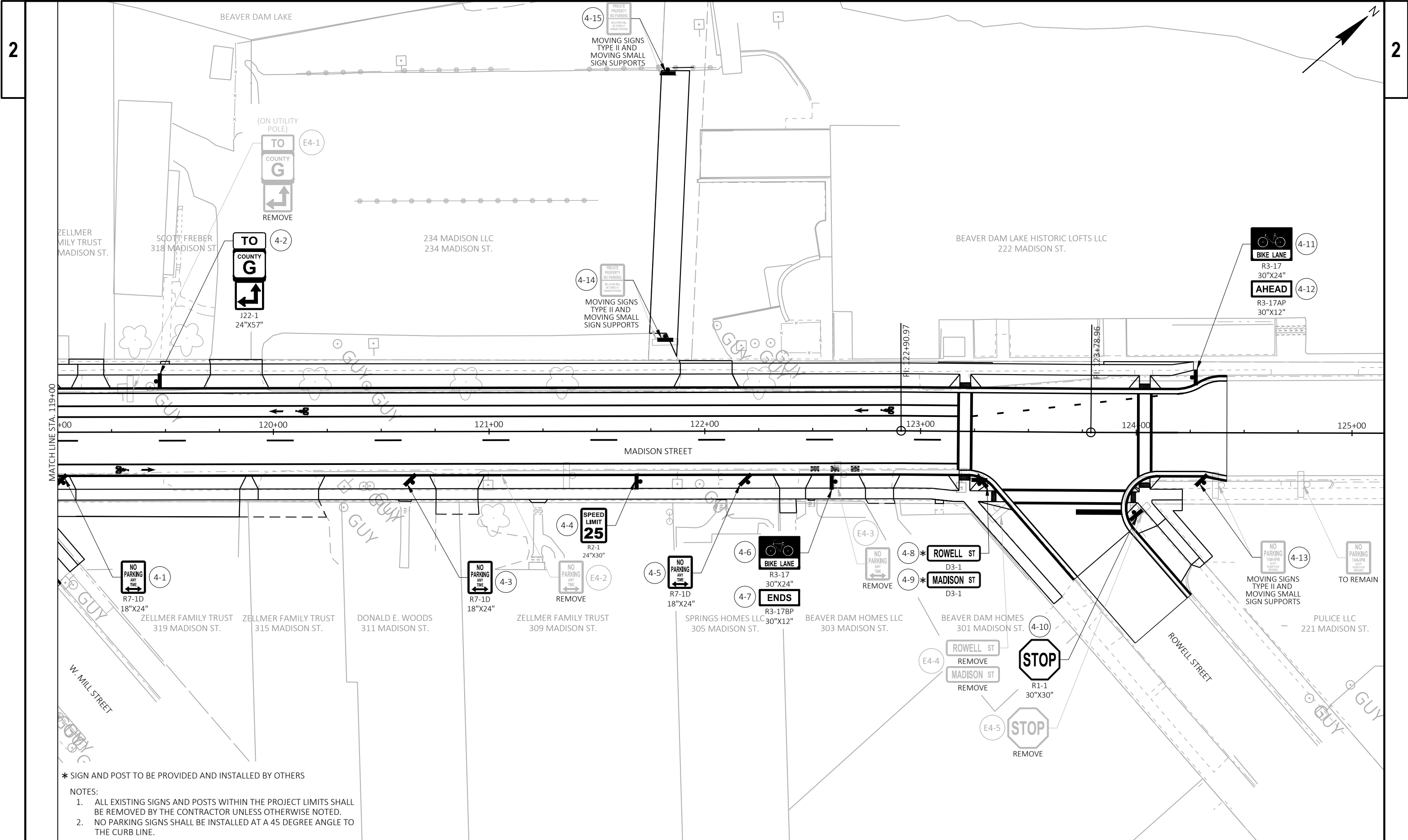
1. ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. NO PARKING SIGNS SHALL BE INSTALLED AT A 45 DEGREE ANGLE TO THE CURB LINE.



* SIGN AND POST TO BE PROVIDED AND INSTALLED BY OTHERS

NOTES:

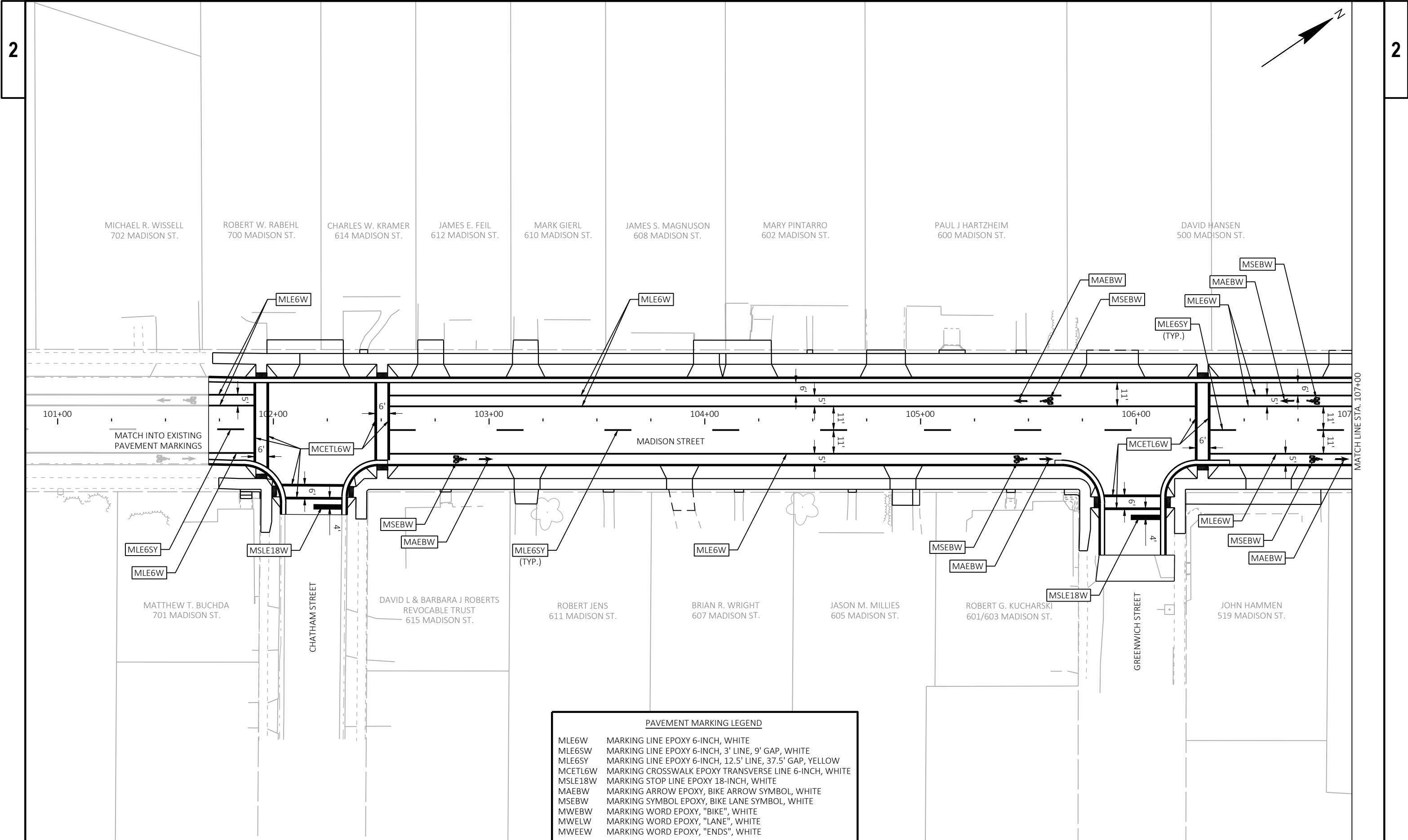
- ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- NO PARKING SIGNS SHALL BE INSTALLED AT A 45 DEGREE ANGLE TO THE CURB LINE.



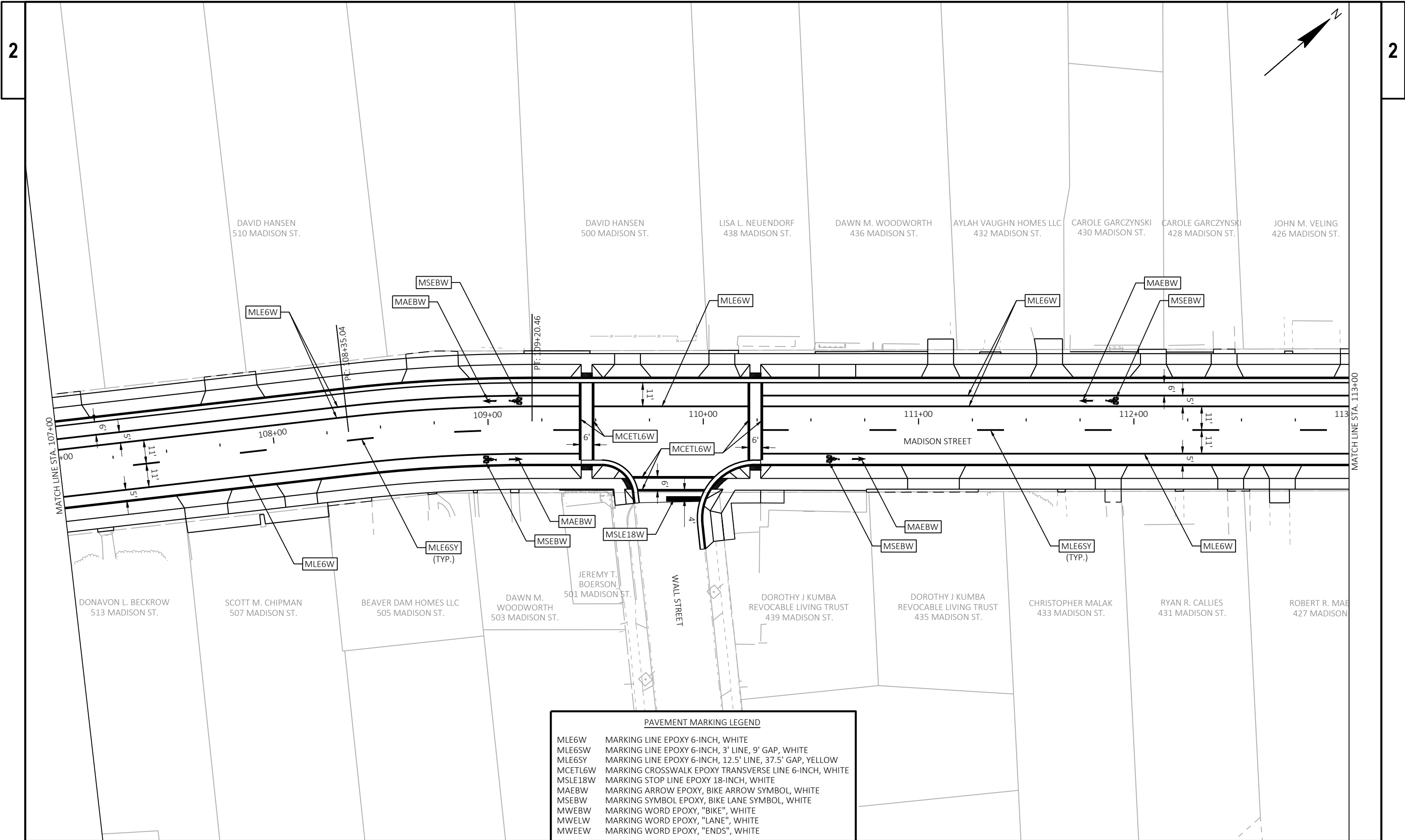
* SIGN AND POST TO BE PROVIDED AND INSTALLED BY OTHERS

NOTES:

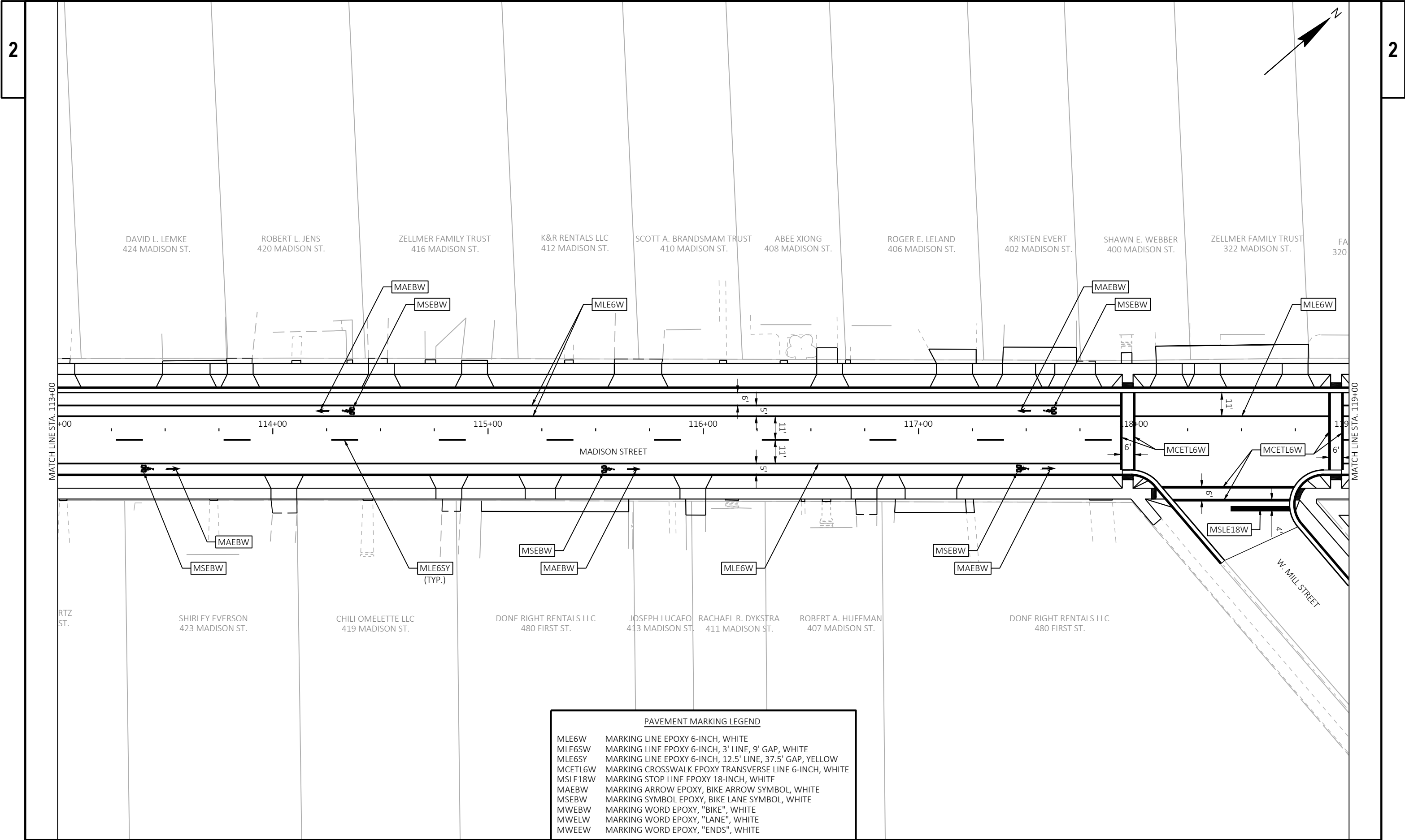
1. ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. NO PARKING SIGNS SHALL BE INSTALLED AT A 45 DEGREE ANGLE TO THE CURB LINE.



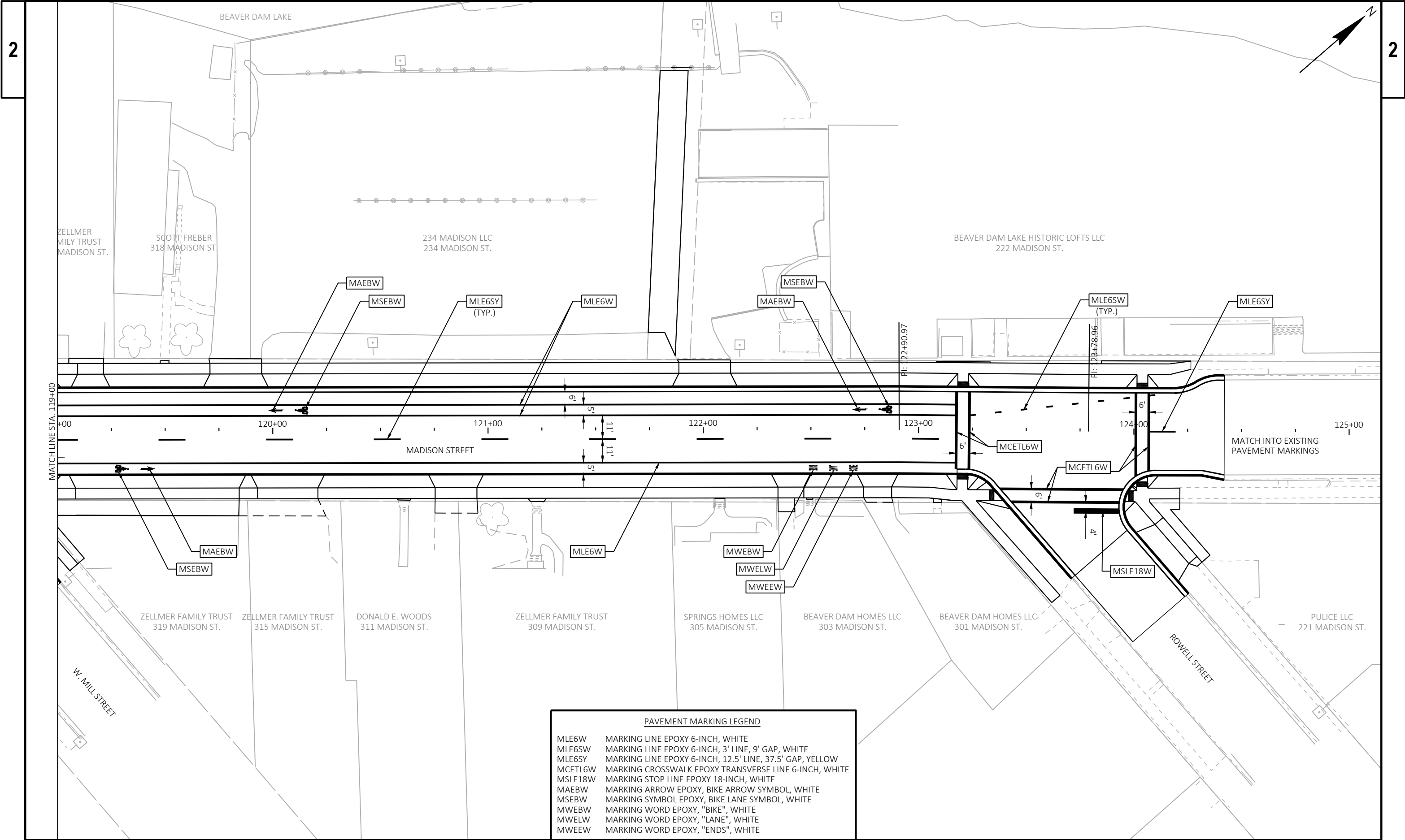
PAVEMENT MARKING LEGEND	
MLE6W	MARKING LINE EPOXY 6-INCH, WHITE
MLE6SW	MARKING LINE EPOXY 6-INCH, 3' LINE, 9' GAP, WHITE
MLE6SY	MARKING LINE EPOXY 6-INCH, 12.5' LINE, 37.5' GAP, YELLOW
MCETL6W	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
MSLE18W	MARKING STOP LINE EPOXY 18-INCH, WHITE
MAEBW	MARKING ARROW EPOXY, BIKE ARROW SYMBOL, WHITE
MSEBW	MARKING SYMBOL EPOXY, BIKE LANE SYMBOL, WHITE
MWEBW	MARKING WORD EPOXY, "BIKE", WHITE
MWELW	MARKING WORD EPOXY, "LANE", WHITE
MWEEW	MARKING WORD EPOXY, "ENDS", WHITE



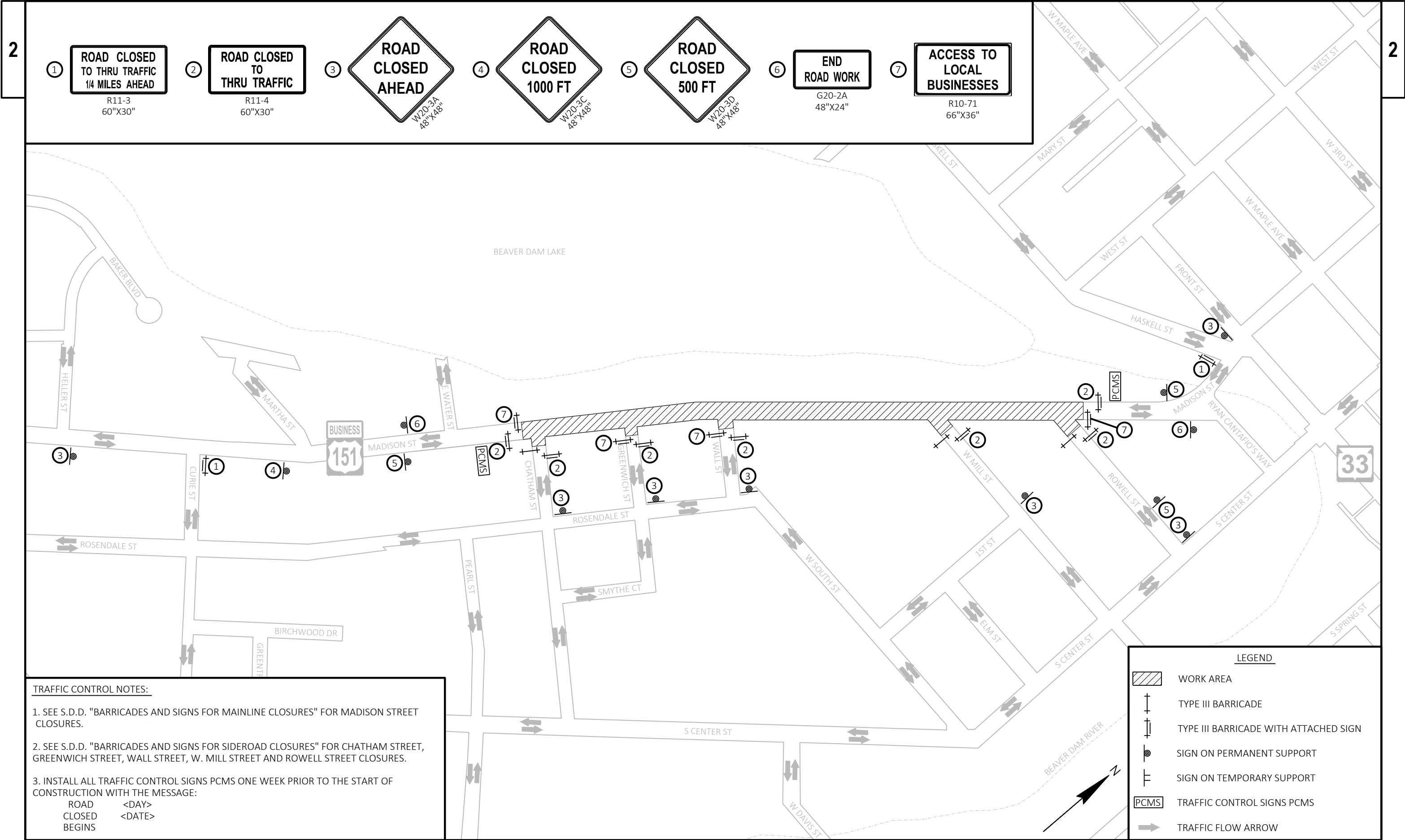
PAVEMENT MARKING LEGEND	
MLE6W	MARKING LINE EPOXY 6-INCH, WHITE
MLE6SW	MARKING LINE EPOXY 6-INCH, 3' LINE, 9' GAP, WHITE
MLE6SY	MARKING LINE EPOXY 6-INCH, 12.5' LINE, 37.5' GAP, YELLOW
MCETL6W	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
MSLE18W	MARKING STOP LINE EPOXY 18-INCH, WHITE
MAEBW	MARKING ARROW EPOXY, BIKE ARROW SYMBOL, WHITE
MSEBW	MARKING SYMBOL EPOXY, BIKE LANE SYMBOL, WHITE
MWEBW	MARKING WORD EPOXY, "BIKE", WHITE
MWELW	MARKING WORD EPOXY, "LANE", WHITE
MWEW	MARKING WORD EPOXY, "ENDS", WHITE



PAVEMENT MARKING LEGEND	
MLE6W	MARKING LINE EPOXY 6-INCH, WHITE
MLE6SW	MARKING LINE EPOXY 6-INCH, 3' LINE, 9' GAP, WHITE
MLE6SY	MARKING LINE EPOXY 6-INCH, 12.5' LINE, 37.5' GAP, YELLOW
MCETL6W	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
MSLE18W	MARKING STOP LINE EPOXY 18-INCH, WHITE
MAEBW	MARKING ARROW EPOXY, BIKE ARROW SYMBOL, WHITE
MSEBW	MARKING SYMBOL EPOXY, BIKE LANE SYMBOL, WHITE
MWEBW	MARKING WORD EPOXY, "BIKE", WHITE
MWELW	MARKING WORD EPOXY, "LANE", WHITE
MWEEW	MARKING WORD EPOXY, "ENDS", WHITE

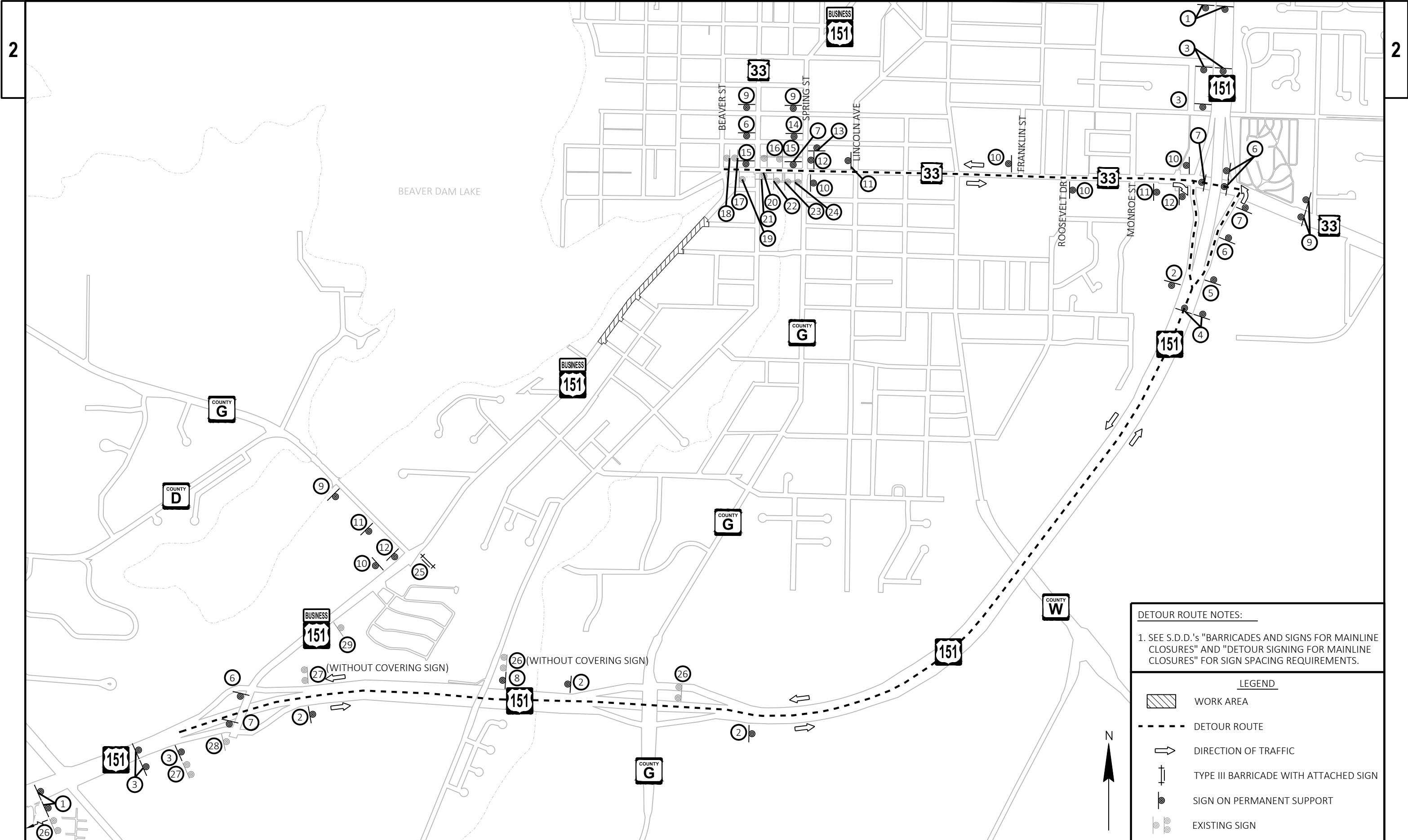


PAVEMENT MARKING LEGEND	
MLE6W	MARKING LINE EPOXY 6-INCH, WHITE
MLE6SW	MARKING LINE EPOXY 6-INCH, 3' LINE, 9' GAP, WHITE
MLE6SY	MARKING LINE EPOXY 6-INCH, 12.5' LINE, 37.5' GAP, YELLOW
MCETL6W	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH, WHITE
MSLE18W	MARKING STOP LINE EPOXY 18-INCH, WHITE
MAEBW	MARKING ARROW EPOXY, BIKE ARROW SYMBOL, WHITE
MSEBW	MARKING SYMBOL EPOXY, BIKE LANE SYMBOL, WHITE
MWEBW	MARKING WORD EPOXY, "BIKE", WHITE
MWELW	MARKING WORD EPOXY, "LANE", WHITE
MWEEW	MARKING WORD EPOXY, "ENDS", WHITE



TRAFFIC CONTROL NOTES:

- 1. SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR MADISON STREET CLOSURES.
- 2. SEE S.D.D. "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" FOR CHATHAM STREET, GREENWICH STREET, WALL STREET, W. MILL STREET AND ROWELL STREET CLOSURES.
- 3. INSTALL ALL TRAFFIC CONTROL SIGNS PCMS ONE WEEK PRIOR TO THE START OF CONSTRUCTION WITH THE MESSAGE:
ROAD <DAY>
CLOSED <DATE>
BEGINS



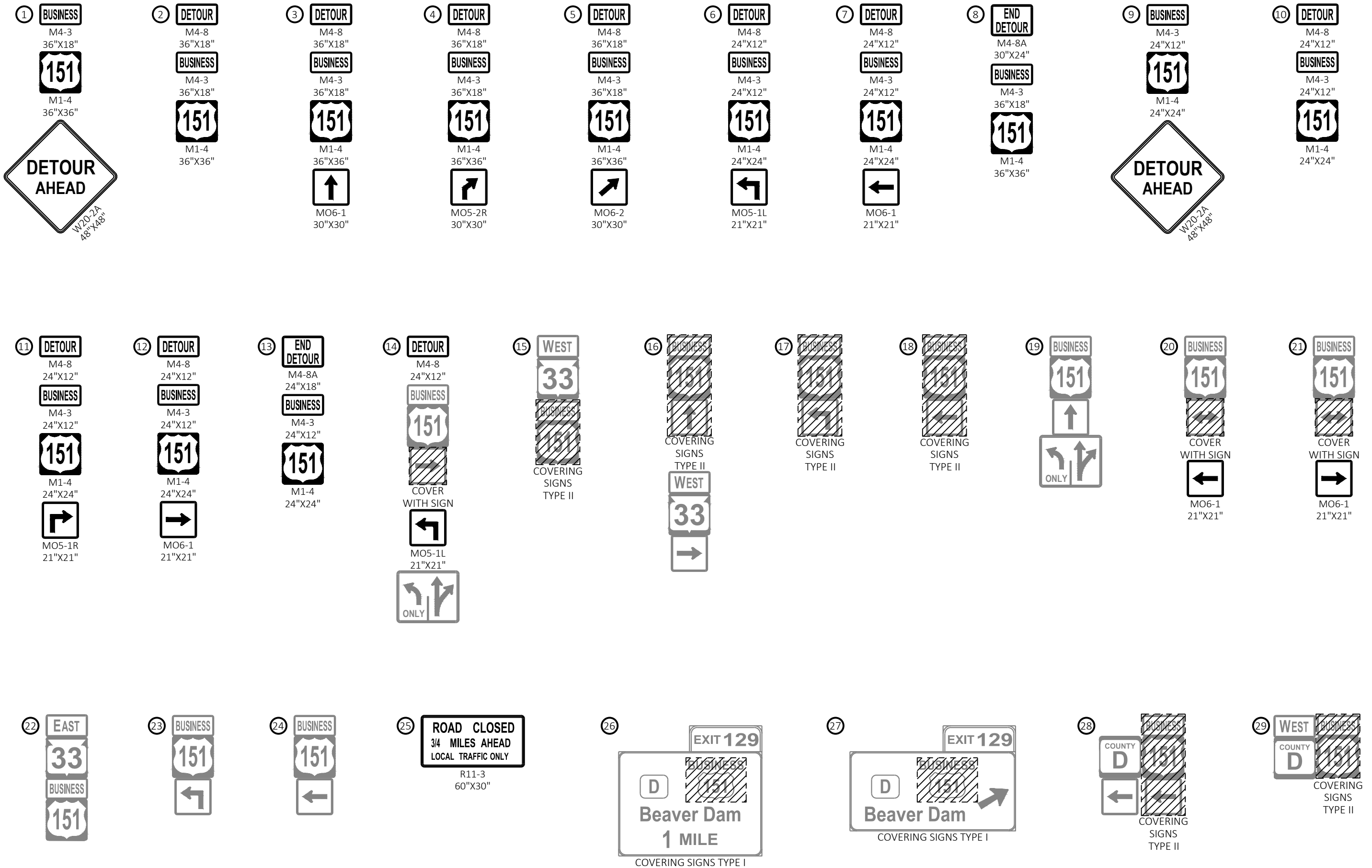
DETOUR ROUTE NOTES:

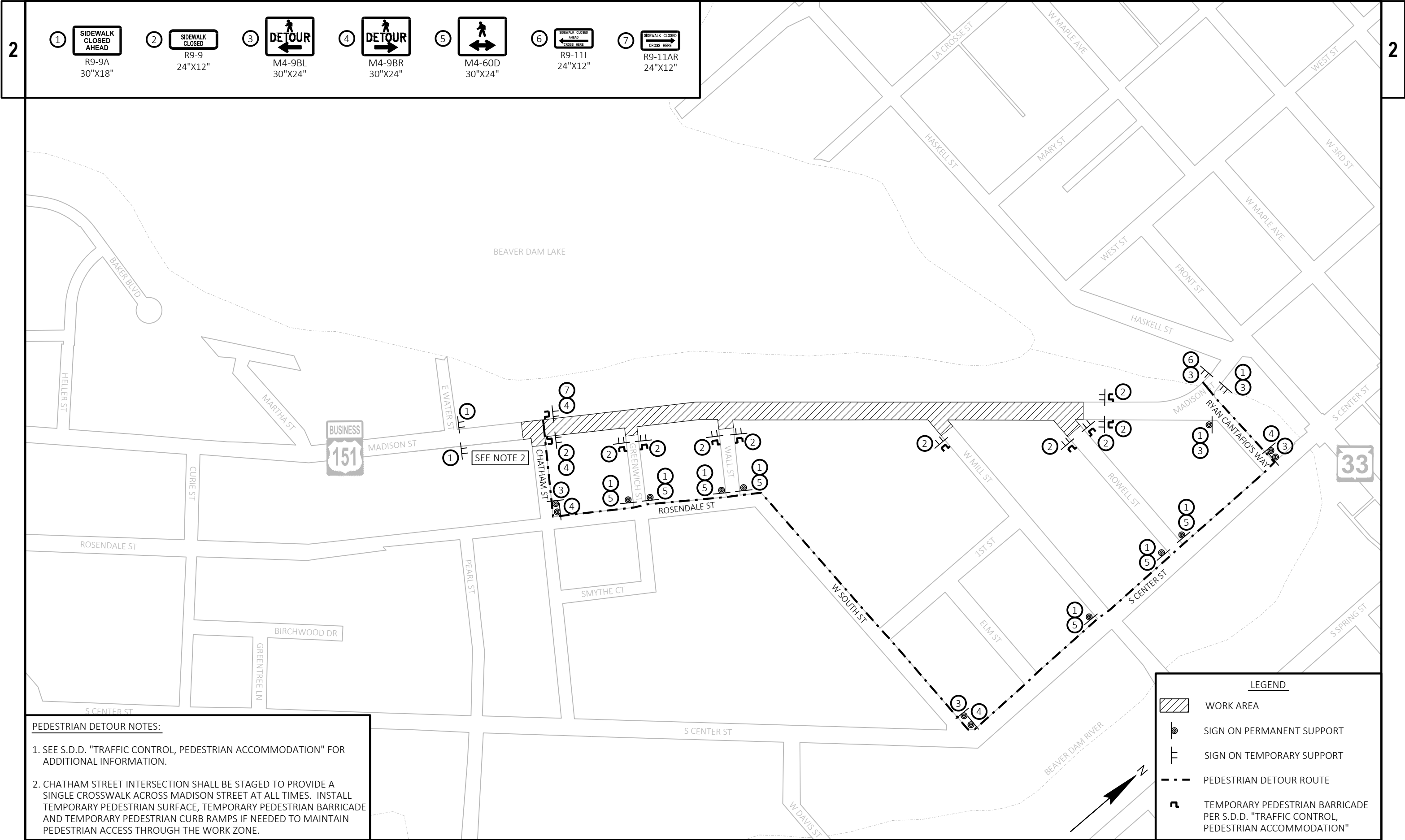
1. SEE S.D.D.'s "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR SIGN SPACING REQUIREMENTS.

LEGEND

WORK AREA

DETOUR ROUTE

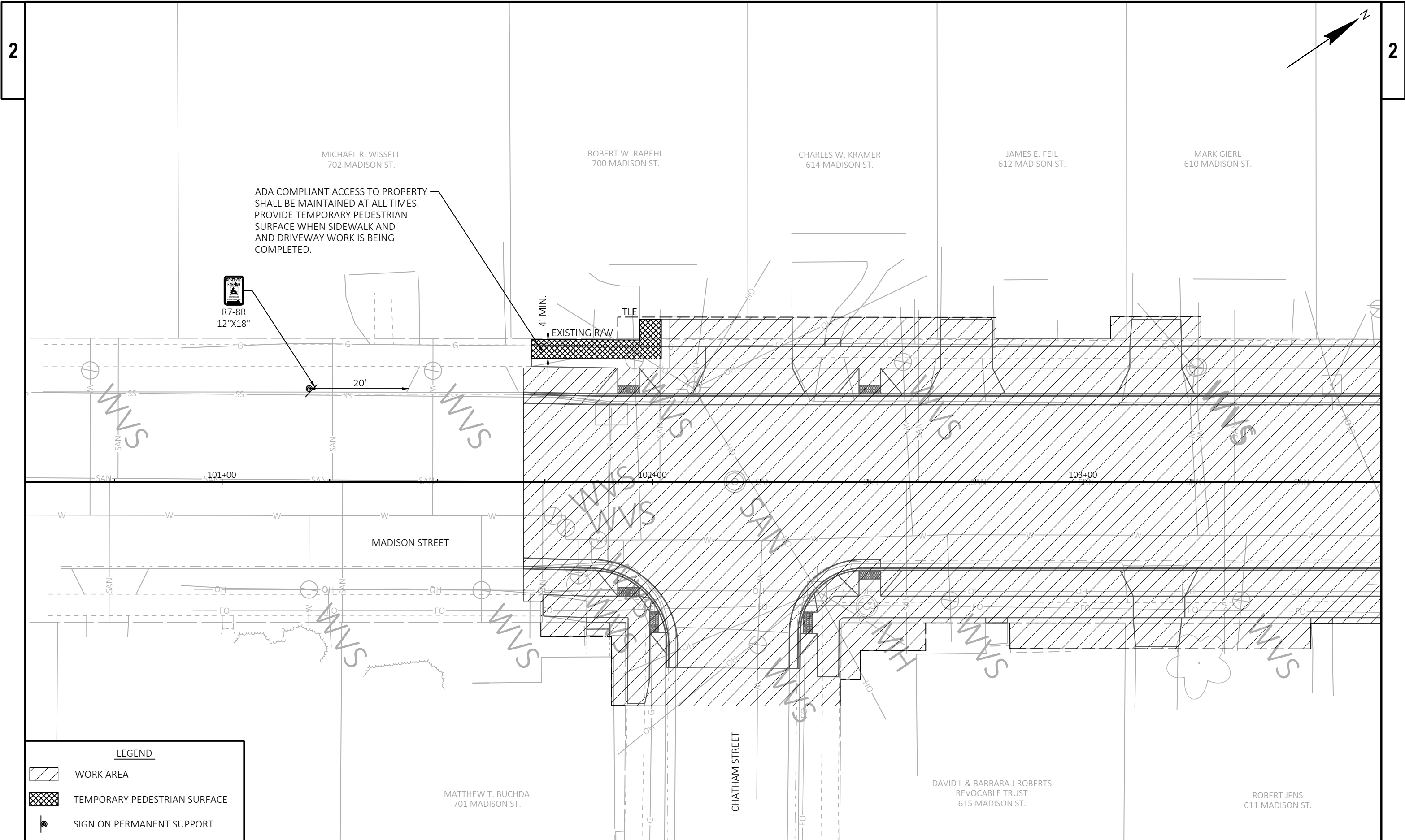


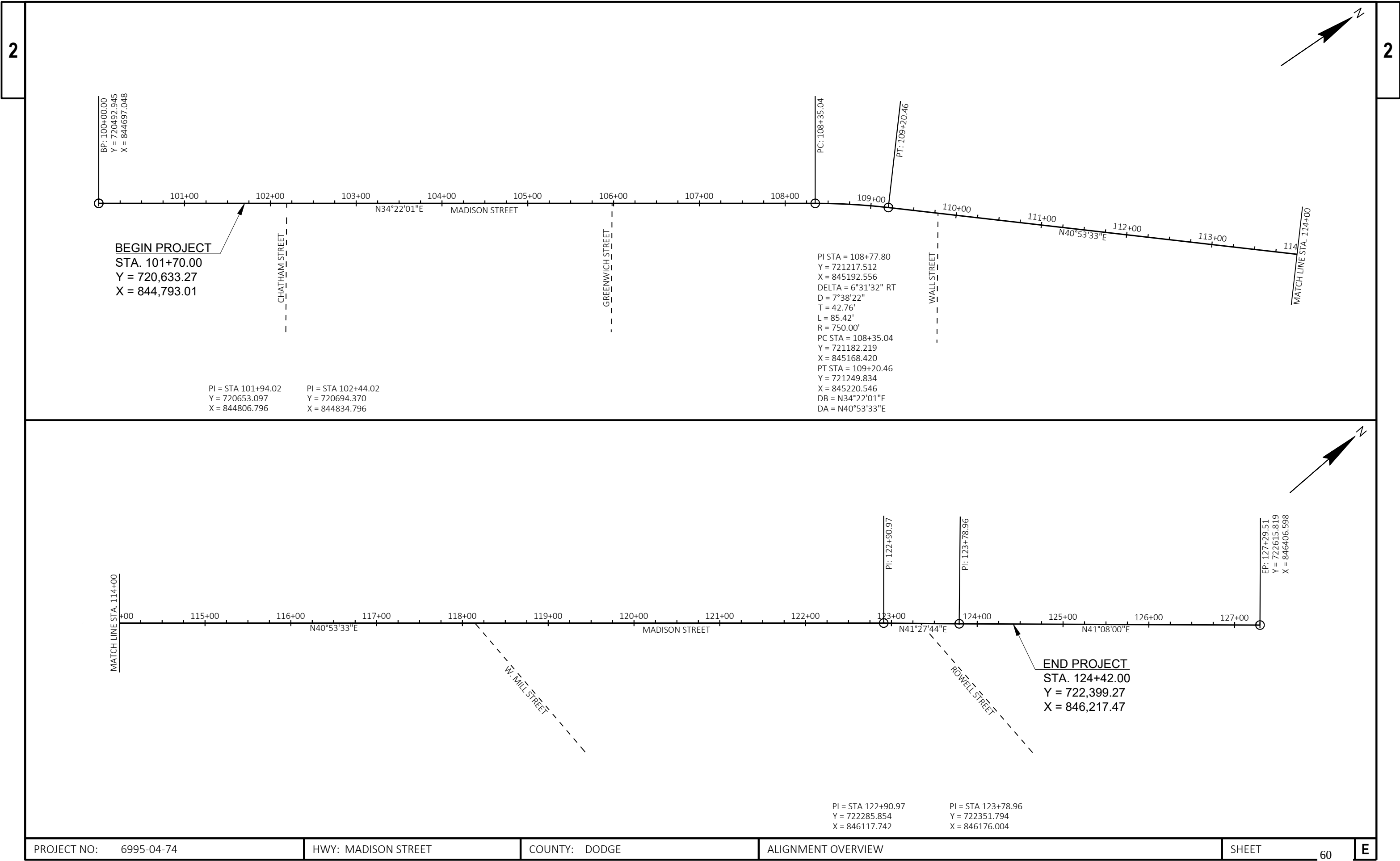


PEDESTRIAN DETOUR NOTES:

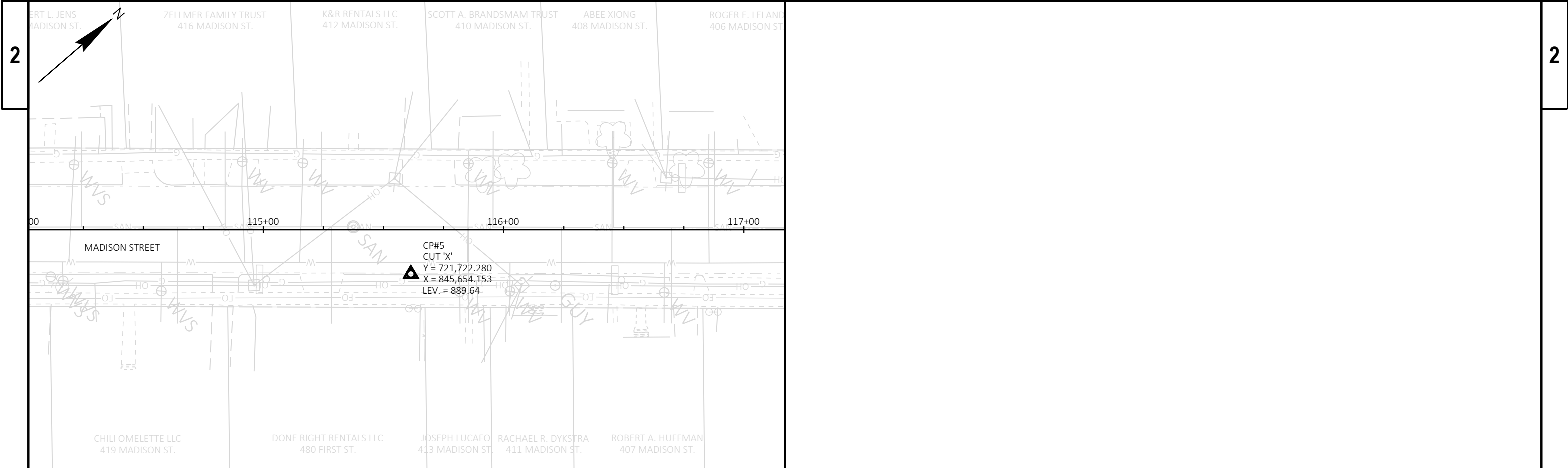
1. SEE S.D.D. "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

2. CHATHAM STREET INTERSECTION SHALL BE STAGED TO PROVIDE A SINGLE CROSSWALK ACROSS MADISON STREET AT ALL TIMES. INSTALL TEMPORARY PEDESTRIAN SURFACE, TEMPORARY PEDESTRIAN BARRICADE AND TEMPORARY PEDESTRIAN CURB RAMPS IF NEEDED TO MAINTAIN PEDESTRIAN ACCESS THROUGH THE WORK ZONE.









Estimate Of Quantities

		6995-04-74	6995-04-75			
Line	Item	Item Description	Unit	Total	Qty	Qty
0002	201.0120	Clearing	ID	277.000	277.000	
0004	201.0220	Grubbing	ID	277.000	277.000	
0006	204.0100	Removing Concrete Pavement	SY	11,520.000	11,520.000	
0008	204.0150	Removing Curb & Gutter	LF	145.000	145.000	
0010	204.0155	Removing Concrete Sidewalk	SY	2,635.000	2,635.000	
0012	204.0165	Removing Guardrail	LF	12.500	12.500	
0014	204.0210	Removing Manholes	EACH	2.000	2.000	
0016	204.0220	Removing Inlets	EACH	10.000	10.000	
0018	204.0245	Removing Storm Sewer (size) 01. 12-Inch or Less	LF	862.000	862.000	
0020	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	107.000	107.000	
0022	204.0246	Removing Ancillary Structure (structure) 01. Station 121+77	EACH	1.000	1.000	
0024	204.0280	Sealing Pipes	EACH	2.000	2.000	
0026	204.9060.S	Removing (item description) 01. Bollard	EACH	1.000	1.000	
0028	205.0100	Excavation Common	CY	11,230.000	11,230.000	
0030	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	1,000.000	1,000.000	
0032	206.3001	Excavation for Structures Retaining Walls (structure) 01. Station 121+77	EACH	1.000	1.000	
0034	206.5001	Cofferdams (structure) 01. Station 121+77	EACH	1.000	1.000	
0036	210.1500	Backfill Structure Type A	TON	33.000	33.000	
0038	213.0100	Finishing Roadway (project) 01. 6995-04-74	EACH	1.000	1.000	
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	50.000	50.000	
0042	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	5,380.000	5,380.000	
0044	310.0115	Base Aggregate Open-Graded	CY	10.000	10.000	
0046	311.0110	Breaker Run	TON	8,600.000	8,600.000	
0048	415.0080	Concrete Pavement 8-Inch	SY	9,840.000	9,840.000	
0050	416.0610	Drilled Tie Bars	EACH	24.000	24.000	
0052	416.0620	Drilled Dowel Bars	EACH	144.000	144.000	
0054	455.0605	Tack Coat	GAL	10.000	10.000	
0056	465.0105	Asphaltic Surface	TON	4.000	4.000	
0058	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	7.000	7.000	
0060	513.9006.S	Removing and Resetting Tubular Railing (structure) 01. Station 121+77	EACH	1.000	1.000	
0062	516.0500	Rubberized Membrane Waterproofing	SY	3.000	3.000	
0064	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	2,855.000	2,855.000	
0066	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	40.000	40.000	
0068	601.0452	Concrete Curb & Gutter Integral 30-Inch Type D	LF	1,800.000	1,800.000	
0070	601.0600	Concrete Curb Pedestrian	LF	53.000	53.000	
0072	602.0405	Concrete Sidewalk 4-Inch	SF	20,650.000	20,650.000	
0074	602.0415	Concrete Sidewalk 6-Inch	SF	4,700.000	4,700.000	
0076	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	250.000	250.000	
0078	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	37.090	37.090	
0080	602.0810	Concrete Driveway 6-Inch	SY	1,025.000	1,025.000	
0082	602.1500	Concrete Steps	SF	17.000	17.000	
0084	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	139.000	139.000	
0086	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	204.000	204.000	
0088	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	173.000	173.000	
0090	608.3015	Storm Sewer Pipe Class III-A 15-Inch	LF	158.000	158.000	
0092	608.3018	Storm Sewer Pipe Class III-A 18-Inch	LF	348.000	348.000	
0094	608.3024	Storm Sewer Pipe Class III-A 24-Inch	LF	901.000	901.000	
0096	611.0530	Manhole Covers Type J	EACH	7.000	7.000	
0098	611.0624	Inlet Covers Type H	EACH	18.000	18.000	

Estimate Of Quantities

6995-04-74					6995-04-75	
Line	Item	Item Description	Unit	Total	Qty	Qty
0100	611.2004	Manholes 4-FT Diameter	EACH	5.000	5.000	
0102	611.2005	Manholes 5-FT Diameter	EACH	2.000	2.000	
0104	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000	
0106	611.3230	Inlets 2x3-FT	EACH	18.000	18.000	
0108	612.0106	Pipe Underdrain 6-Inch	LF	100.000	100.000	
0110	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	138.800		138.800
0112	614.0305	Steel Plate Beam Guard Class A	LF	12.500	12.500	
0114	616.0404	Fence Chain Link Salvaged 4-FT	LF	11.000	11.000	
0116	616.0406	Fence Chain Link Salvaged 6-FT	LF	8.000	8.000	
0118	618.0100	Maintenance and Repair of Haul Roads (project) 01. 6995-04-74	EACH	1.000	1.000	
0120	619.1000	Mobilization	EACH	1.000	0.610	0.390
0122	624.0100	Water	MGAL	77.000	77.000	
0124	625.0100	Topsoil	SY	3,000.000	3,000.000	
0126	628.1504	Silt Fence	LF	100.000	100.000	
0128	628.1520	Silt Fence Maintenance	LF	100.000	100.000	
0130	628.1905	Mobilizations Erosion Control	EACH	12.000	12.000	
0132	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000	
0134	628.7005	Inlet Protection Type A	EACH	1.000	1.000	
0136	628.7020	Inlet Protection Type D	EACH	41.000	41.000	
0138	628.7560	Tracking Pads	EACH	3.000	3.000	
0140	629.0210	Fertilizer Type B	CWT	2.000	2.000	
0142	631.0300	Sod Water	MGAL	170.000	170.000	
0144	631.1000	Sod Lawn	SY	3,000.000	3,000.000	
0146	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	22.000	22.000	
0148	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	5.000	5.000	
0150	637.2210	Signs Type II Reflective H	SF	137.900	137.900	
0152	638.2102	Moving Signs Type II	EACH	3.000	3.000	
0154	638.2602	Removing Signs Type II	EACH	30.000	30.000	
0156	638.3000	Removing Small Sign Supports	EACH	26.000	26.000	
0158	638.4000	Moving Small Sign Supports	EACH	3.000	3.000	
0160	642.5001	Field Office Type B	EACH	1.000	0.610	0.390
0162	643.0420	Traffic Control Barricades Type III	DAY	3,200.000	3,200.000	
0164	643.0705	Traffic Control Warning Lights Type A	DAY	6,400.000	6,400.000	
0166	643.0900	Traffic Control Signs	DAY	42,500.000	42,500.000	
0168	643.0910	Traffic Control Covering Signs Type I	EACH	3.000	3.000	
0170	643.0920	Traffic Control Covering Signs Type II	EACH	7.000	7.000	
0172	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0174	643.5000	Traffic Control	EACH	1.000	0.610	0.390
0176	644.1430	Temporary Pedestrian Surface Plate	SF	200.000	200.000	
0178	644.1440	Temporary Pedestrian Surface Matting	SF	400.000	400.000	
0180	644.1601	Temporary Pedestrian Curb Ramp	DAY	20.000	20.000	
0182	644.1605	Temporary Pedestrian Detectable Warning Field	SF	20.000	20.000	
0184	644.1810	Temporary Pedestrian Barricade	LF	400.000	400.000	
0186	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000	
0188	645.0220	Geogrid Type SR	SY	12,400.000	12,400.000	
0190	646.2020	Marking Line Epoxy 6-Inch	LF	6,275.000	6,275.000	
0192	646.5020	Marking Arrow Epoxy	EACH	17.000	17.000	
0194	646.5120	Marking Word Epoxy	EACH	3.000	3.000	
0196	646.5220	Marking Symbol Epoxy	EACH	17.000	17.000	

Estimate Of Quantities

6995-04-74						6995-04-75	
Line	Item	Item Description	Unit	Total	Qty	Qty	
0198	646.6120	Marking Stop Line Epoxy 18-Inch	LF	95.000	95.000		
0200	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,055.000	1,055.000		
0202	650.4000	Construction Staking Storm Sewer	EACH	26.000	26.000		
0204	650.4500	Construction Staking Subgrade	LF	2,272.000	2,272.000		
0206	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	93.000	93.000		
0208	650.7000	Construction Staking Concrete Pavement	LF	2,272.000	2,272.000		
0210	650.9000	Construction Staking Curb Ramps	EACH	28.000	28.000		
0212	650.9500	Construction Staking Sidewalk (project) 01. 6995-04-74	EACH	1.000	1.000		
0214	650.9911	Construction Staking Supplemental Control (project) 01. 6995-04-74	EACH	1.000	1.000		
0216	650.9920	Construction Staking Slope Stakes	LF	2,272.000	2,272.000		
0218	690.0150	Sawing Asphalt	LF	810.000	810.000		
0220	690.0250	Sawing Concrete	LF	1,400.000	1,400.000		
0222	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	2,952.000	2,952.000		
0224	740.0440	Incentive IRI Ride	DOL	1,721.000	1,721.000		
0226	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,400.000	2,400.000		
0228	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	2,120.000	2,120.000		
0230	SPV.0060	Special 01. Utility Line Opening (ULO)	EACH	10.000	10.000		
0232	SPV.0060	Special 02. Reconnect Storm Sewer Laterals	EACH	2.000	2.000		
0234	SPV.0060	Special 03. Inlet Cover Type Driveway Special	EACH	1.000	1.000		
0236	SPV.0060	Special 04. Clay Dam within Contaminated Soils	EACH	7.000		7.000	
0238	SPV.0060	Special 05. Remove Ex. Sanitary Manhole	EACH	11.000		11.000	
0240	SPV.0060	Special 06. Remove Ex. Water Valve Box	EACH	19.000		19.000	
0242	SPV.0060	Special 07. Remove Ex. Hydrant	EACH	6.000		6.000	
0244	SPV.0060	Special 08. Remove Ex. Water Manhole	EACH	1.000		1.000	
0246	SPV.0060	Special 09. Sanitary Manhole (48-Inch)	EACH	9.000		9.000	
0248	SPV.0060	Special 10. Sanitary MH Cover Type J-Special	EACH	9.000		9.000	
0250	SPV.0060	Special 11. Sanitary Sewer Cleanout	EACH	2.000		2.000	
0252	SPV.0060	Special 12. Connect to Existing Sanitary Sewer	EACH	5.000		5.000	
0254	SPV.0060	Special 13. Water Valve & Box 4-Inch	EACH	4.000		4.000	
0256	SPV.0060	Special 14. Water Valve & Box 6-Inch	EACH	8.000		8.000	
0258	SPV.0060	Special 15. Water Valve & Box 8-Inch	EACH	16.000		16.000	
0260	SPV.0060	Special 16. Fire Hydrant	EACH	6.000		6.000	
0262	SPV.0060	Special 17. Tees 8"x4"x8" Special	EACH	4.000		4.000	
0264	SPV.0060	Special 18. Tees 8"x6"x8" Special	EACH	7.000		7.000	
0266	SPV.0060	Special 19. Tees 8"x8"x8" Special	EACH	6.000		6.000	
0268	SPV.0060	Special 20. Bend 90-Degree 4-Inch Special	EACH	3.000		3.000	
0270	SPV.0060	Special 21. Bend 90-Degree 6-Inch Special	EACH	2.000		2.000	
0272	SPV.0060	Special 22. Bend 45-Degree 8-Inch Special	EACH	4.000		4.000	
0274	SPV.0060	Special 23. Cap 4-Inch Special	EACH	1.000		1.000	
0276	SPV.0060	Special 24. Cap 8-Inch Special	EACH	5.000		5.000	
0278	SPV.0060	Special 25. Connect to Existing Water Main	EACH	9.000		9.000	
0280	SPV.0060	Special 26. Sanitary Wye 8-Inch Main	EACH	1.000		1.000	
0282	SPV.0060	Special 27. Sanitary Wye 10-Inch Main	EACH	56.000		56.000	
0284	SPV.0060	Special 28. Sanitary Lateral Reconnection	EACH	56.000		56.000	
0286	SPV.0060	Special 29. Corporation, Curb Stop & Box (Set)	EACH	56.000		56.000	
0288	SPV.0060	Special 30. Water Service Reconnection	EACH	56.000		56.000	
0290	SPV.0060	Special 31. Temporary Water Service Project 6995-04-75	EACH	1.000		1.000	
0292	SPV.0060	Special 32. Abandon/Remove Sanitary Sewer Project 6995-04-75	EACH	1.000		1.000	
0294	SPV.0060	Special 33. Abandon/Remove Water Main Project 6995-04-75	EACH	1.000		1.000	

Estimate Of Quantities

		6995-04-74		6995-04-75	
Line	Item	Item Description	Unit	Total	Qty
0296	SPV.0090	Special 01. HPDE Water Service 1 to 2-Inch Special	LF	813.000	813.000
0298	SPV.0090	Special 02. Sanitary Lateral 6-Inch	LF	1,900.000	1,900.000
0300	SPV.0090	Special 03. Sanitary Sewer Pipe 8-Inch Special	LF	126.000	126.000
0302	SPV.0090	Special 04. Sanitary Sewer Pipe 10-Inch Special	LF	2,219.000	2,219.000
0304	SPV.0090	Special 05. Sanitary Sewer Televising	LF	2,345.000	2,345.000
0306	SPV.0090	Special 06. PVC Water Main 4-Inch Special	LF	80.000	80.000
0308	SPV.0090	Special 07. PVC Water Main 6-Inch Special	LF	80.000	80.000
0310	SPV.0090	Special 08. PVC Water Main 8-Inch Special	LF	1,330.000	1,330.000
0312	SPV.0090	Special 09. Copper Water Service 1 to 2-Inch Special	LF	1,000.000	1,000.000
0314	SPV.0090	Special 10. Ductile Iron Water Main With Fluorocarbon Gaskets 4-Inch Special	LF	26.000	26.000
0316	SPV.0090	Special 11. Ductile Iron Water Main With Fluorocarbon Gaskets 6-Inch Special	LF	85.000	85.000
0318	SPV.0090	Special 12. Ductile Iron Water Main With Fluorocarbon Gaskets 8-Inch Special	LF	1,253.000	1,253.000
0320	SPV.0120	Special 01. Management of Contaminated Groundwater	MGAL	10.000	10.000
0322	SPV.0165	Special 01. Precast Panels for Soldier Pile Walls	SF	134.000	134.000
0324	SPV.0180	Special 01. Shredded Hardwood Bark Mulch	SY	10.000	10.000
0326	SPV.0180	Special 02. Gravel Mulch	SY	10.000	10.000

3

CLEARING & GRUBBING

CATEGORY	STATION	LOCATION	201.0120	201.0220
			CLEARING ID	GRUBBING ID
0010	104+40	LT	18	18
0010	105+21	LT	24	24
0010	110+76	LT	36	36
0010	110+98	LT	36	36
0010	113+30	LT	18	18
0010	115+92	LT	30	30
0010	116+04	LT	30	30
0010	116+76	LT	29	29
0010	120+19	LT	8	8
0010	120+89	LT	18	18
0010	121+34	LT	15	15
0010	122+25	LT	15	15
PROJECT TOTALS			277	277

REMOVING CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0150
					REMOVING CURB & GUTTER LF
0010	109+98	-	110+01	RT	23
0010	118+78	-	119+01	RT	36
0010	123+46	-	123+72	RT	39
0010	123+98	-	124+25	RT	47
PROJECT TOTAL					145

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	204.0155
					REMOVING CONCRETE SIDEWALK SY
0010	101+82	-	124+26	LT	1,280
0010	101+85	-	102+03	RT	25
0010	102+34	-	105+83	RT	220
0010	106+14	-	109+68	RT	225
0010	110+01	-	118+18	RT	490
0010	118+75	-	123+66	RT	350
0010	123+96	-	124+21	RT	45
PROJECT TOTAL					2,635

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165
					REMOVING GUARDRAIL LF
0010	121+85	-	121+98	LT	12.5
PROJECT TOTAL					12.5

REMOVING BOLLARD

CATEGORY	STATION	LOCATION	204.9060.S.01
			REMOVING (ITEM DESCRIPTION) (01. BOLLARD) EACH
0010	121+85	LT	1
PROJECT TOTAL			1

3

REMOVING CONCRETE PAVEMENT

204.0100 REMOVING CONCRETE PAVEMENT						
CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS
0010	101+90	-	102+46	LT & RT	330	ROADWAY
0010	101+97	-	102+37	LT	44	DRIVEWAY
0010	102+46	-	105+68	LT & RT	1,340	ROADWAY
0010	102+64	-	102+79	LT	20	DRIVEWAY
0010	103+09	-	103+25	LT	22	DRIVEWAY
0010	103+09	-	103+23	RT	13	DRIVEWAY
0010	103+80	-	103+94	RT	12	DRIVEWAY
0010	103+93	-	104+33	LT	61	DRIVEWAY
0010	104+73	-	104+95	LT	22	DRIVEWAY
0010	104+85	-	105+01	RT	13	DRIVEWAY
0010	105+68	-	106+29	LT & RT	404	ROADWAY
0010	105+74	-	106+05	LT	31	DRIVEWAY
0010	106+23	-	106+86	RT	55	DRIVEWAY
0010	106+29	-	109+51	LT & RT	1,348	ROADWAY
0010	106+80	-	107+23	LT	39	DRIVEWAY
0010	107+55	-	107+74	RT	19	DRIVEWAY
0010	107+63	-	108+02	LT	44	DRIVEWAY
0010	108+00	-	108+20	RT	16	DRIVEWAY
0010	108+37	-	109+03	LT	71	DRIVEWAY
0010	109+46	-	109+63	LT	15	DRIVEWAY
0010	109+51	-	110+11	LT & RT	327	ROADWAY
0010	109+99	-	110+16	LT	14	DRIVEWAY
0010	109+99	-	110+04	RT	9	DRIVEWAY
0010	110+11	-	117+92	LT & RT	3,277	ROADWAY
0010	110+19	-	110+78	RT	57	DRIVEWAY
0010	110+84	-	111+27	RT	37	DRIVEWAY
0010	111+00	-	111+17	LT	21	DRIVEWAY
0010	111+82	-	111+95	RT	9	DRIVEWAY
0010	112+40	-	112+51	RT	7	DRIVEWAY
0010	112+57	-	112+77	RT	21	DRIVEWAY
0010	113+94	-	114+15	RT	14	DRIVEWAY
0010	114+41	-	114+55	LT	7	DRIVEWAY
0010	114+79	-	114+90	RT	8	DRIVEWAY
0010	114+85	-	114+99	LT	15	DRIVEWAY
0010	115+15	-	115+34	RT	14	DRIVEWAY

(CONTINUED)

REMOVING CONCRETE PAVEMENT (CONTINUED)

204.0100 REMOVING CONCRETE PAVEMENT						
CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS
0010	115+57	-	115+81	LT	25	DRIVEWAY
0010	115+91	-	116+02	RT	7	DRIVEWAY
0010	116+50	-	116+64	LT	20	DRIVEWAY
0010	116+69	-	116+80	RT	7	DRIVEWAY
0010	116+83	-	117+29	RT	32	DRIVEWAY
0010	117+02	-	117+29	LT	37	DRIVEWAY
0010	117+33	-	117+56	LT	32	DRIVEWAY
0010	117+56	-	117+83	LT	33	DRIVEWAY
0010	117+92	-	118+82	LT & RT	600	ROADWAY
0010	118+07	-	118+24	LT	25	DRIVEWAY
0010	118+24	-	118+55	LT	41	DRIVEWAY
0010	118+55	-	118+83	LT	36	DRIVEWAY
0010	118+73	-	119+06	RT	30	DRIVEWAY
0010	118+82	-	123+19	LT & RT	1,837	ROADWAY
0010	118+92	-	119+54	RT	47	DRIVEWAY
0010	119+05	-	119+26	LT	16	DRIVEWAY
0010	119+69	-	119+97	LT	24	DRIVEWAY
0010	119+93	-	120+23	RT	24	DRIVEWAY
0010	120+74	-	120+95	RT	17	DRIVEWAY
0010	121+88	-	122+18	LT	25	DRIVEWAY
0010	122+32	-	122+44	RT	16	DRIVEWAY
0010	122+40	-	123+00	LT	49	DRIVEWAY
0010	123+19	-	124+42	LT & RT	748	ROADWAY
0010	123+99	-	124+26	RT	36	DRIVEWAY

PROJECT TOTAL 11,520

REMOVING STORM STRUCTURES

CATEGORY	STATION	LOCATION	204.0210	204.0220
			REMOVING MANHOLES EACH	REMOVING INLETS EACH
0010	101+90	18' LT	-	1
0010	101+90	18' RT	-	1
0010	105+67	18' RT	-	1
0010	105+68	18' LT	-	1
0010	109+52	18' RT	-	1
0010	109+84	18' LT	-	1
0010	117+86	18' RT	-	1
0010	117+93	18' LT	-	1
0010	120+72	14' LT	1	-
0010	121+84	26' LT	1	-
0010	122+32	18' LT	-	1
0010	123+09	18' RT	-	1
PROJECT TOTALS			2	10

REMOVING STORM SEWER

CATEGORY	FROM STATION	LOCATION	TO STATION	LOCATION	204.0245.01	204.0245.02
					REMOVING STORM SEWER (SIZE) (01. 12-INCH OR LESS) LF	REMOVING STORM SEWER (SIZE) (02. 15-INCH) LF
0010	101+83	LT	101+90	LT	7	-
0010	101+90	LT	101+90	RT	36	-
0010	105+67	RT	105+68	LT	-	36
0010	105+68	LT	105+79	LT	-	22
0010	109+52	RT	109+84	LT	-	49
0010	109+84	LT	109+91	LT	15	-
0010	117+86	RT	117+93	LT	36	-
0010	117+93	LT	120+72	LT	279	-
0010	120+72	LT	122+32	LT	160	-
0010	121+83	LT	122+32	LT	55	-
0010	121+83	LT	121+80	LT	190	-
0010	122+32	LT	123+09	RT	84	-
PROJECT TOTALS					862	107

SEALING PIPES

CATEGORY	STATION	LOCATION	204.0280	REMARKS
			SEALING PIPES EACH	
0010	109+91	27' LT	1	12" RCP
0010		UNDISTRIBUTED	1	
PROJECT TOTAL			2	

SHREDDED HARDWOOD BARK MULCH

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0180.01 SPECIAL (01. SHREDDED HARDWOOD BARK MULCH) SY
0010	122+12	-	122+54	LT	10
PROJECT TOTAL					10

GRAVEL MULCH

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0180.02 SPECIAL (02. GRAVEL MULCH) SY
0010	109+47	-	110+03	LT	10
PROJECT TOTAL					10

3

3

- (1) COMMON EXCAVATION 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 BREAKER RUN. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (13) EXPANDED FILL FACTOR = 1.25

(14) THE MASS ORDINATE +OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

CONTAMINATED SOIL AND GROUNDWATER						
					205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	SPV.0120.01 SPECIAL (01. MANAGEMENT OF CONTAMINATED GROUNDWATER)
CATEGORY	STATION	TO	STATION	LOCATION	TON	MGAL
0020	105+55	-	106+10	LT	170	-
0020	110+40	-	110+90	RT	130	-
0020	117+26	-	118+50	RT	330	-
0020	117+52	-	117+71	RT	50	-
0020	120+00	-	120+50	RT	120	-
0020	122+87	-	123+67	LT	200	10
PROJECT TOTALS					1,000	10

BASE AGGREGATE										
CATEGORY	STATION	TO	STATION	LOCATION	305.0110	305.0120	311.0110	624.0100	645.0220	REMARKS
					BASE AGGREGATE DENSE 3/4-INCH TON	BASE AGGREGATE DENSE 1 1/4-INCH TON	BREAKER RUN TON	WATER MGAL	GEOGRID TYPE SR SY	
0010	101+70	-	102+53	LT & RT	-	170	300	2	505	ROADWAY
0010	102+53	-	105+62	LT & RT	-	520	900	7	1,545	ROADWAY
0010	105+62	-	106+43	LT & RT	-	190	330	3	570	ROADWAY
0010	106+43	-	109+43	LT & RT	-	500	880	7	1,500	ROADWAY
0010	109+43	-	110+27	LT & RT	-	170	300	2	505	ROADWAY
0010	110+27	-	117+95	LT & RT	-	1,300	2,240	18	3,850	ROADWAY
0010	117+95	-	118+96	LT & RT	-	250	430	4	740	ROADWAY
0010	118+96	-	123+18	LT & RT	-	700	1,230	10	2,110	ROADWAY
0010	123+18	-	124+42	LT & RT	-	290	510	4	880	ROADWAY
0010	101+72	-	124+26	LT	-	260	-	4	-	SIDEWALK
0010	101+75	-	102+03	RT	-	10	-	0.1	-	SIDEWALK
0010	102+34	-	105+83	RT	-	50	-	0.7	-	SIDEWALK
0010	106+14	-	109+68	RT	-	40	-	0.6	-	SIDEWALK
0010	110+01	-	118+18	RT	-	90	-	1.3	-	SIDEWALK
0010	118+75	-	123+66	RT	-	60	-	0.8	-	SIDEWALK
0010	123+96	-	124+21	RT	-	10	-	0.1	-	SIDEWALK
0010	101+97	-	102+36	LT	-	17	-	0.2	-	DRIVEWAY
0010	102+64	-	102+82	LT	-	8	-	0.1	-	DRIVEWAY
0010	103+08	-	103+26	LT	-	8	-	0.1	-	DRIVEWAY
0010	103+09	-	103+27	RT	-	8	-	0.1	-	DRIVEWAY
0010	103+79	-	103+97	RT	5	6	-	0.2	-	DRIVEWAY
0010	103+92	-	104+08	LT	-	8	-	0.1	-	DRIVEWAY
0010	104+08	-	104+34	LT	-	14	-	0.2	-	DRIVEWAY
0010	104+72	-	104+96	LT	-	9	-	0.1	-	DRIVEWAY
0010	104+83	-	105+01	RT	1	8	-	0.1	-	DRIVEWAY
0010	105+74	-	106+04	LT	1	10	-	0.2	-	DRIVEWAY
0010	106+23	-	106+85	RT	-	25	-	0.4	-	DRIVEWAY
0010	106+86	-	107+16	LT	1	10	-	0.2	-	DRIVEWAY
0010	107+52	-	107+91	RT	-	17	-	0.2	-	DRIVEWAY
0010	107+68	-	107+98	LT	1	10	-	0.2	-	DRIVEWAY
0010	107+91	-	108+42	RT	1	14	-	0.2	-	DRIVEWAY
0010	108+61	-	108+90	LT	2	10	-	0.2	-	DRIVEWAY
0010	109+56	-	109+74	LT	-	6	-	0.1	-	DRIVEWAY
0010	110+00	-	110+17	LT	-	6	-	0.1	-	DRIVEWAY
0010	110+01	-	110+38	RT	-	14	-	0.2	-	DRIVEWAY
0010	110+76	-	111+28	RT	3	10	-	0.2	-	DRIVEWAY
0010	111+01	-	111+19	LT	-	9	-	0.1	-	DRIVEWAY
0010	111+52	-	111+70	LT	-	9	-	0.1	-	DRIVEWAY
0010	111+79	-	111+97	RT	2	6	-	0.1	-	DRIVEWAY
0010	112+00	-	112+18	LT	-	7	-	0.1	-	DRIVEWAY

(CONTINUED ON NEXT SHEET)

BASE AGGREGATE (CONTINUED)

					305.0110	305.0120	311.0110	624.0100	645.0220	
					BASE AGGREGATE	BASE AGGREGATE			GEOGRID	
					DENSE 3/4-INCH	DENSE 1 1/4-INCH	BREAKER RUN	WATER	TYPE SR	
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	TON	MGAL	SY	REMARKS
0010	112+33	-	112+51	LT	1	6	-	0.1	-	DRIVEWAY
0010	112+36	-	112+54	RT	1	6	-	0.1	-	DRIVEWAY
0010	112+60	-	112+78	RT	-	8	-	0.1	-	DRIVEWAY
0010	112+93	-	113+11	LT	1	6	-	0.1	-	DRIVEWAY
0010	113+46	-	113+74	LT	-	11	-	0.2	-	DRIVEWAY
0010	113+76	-	113+94	LT	1	6	-	0.1	-	DRIVEWAY
0010	113+96	-	114+14	RT	3	6	-	0.1	-	DRIVEWAY
0010	114+41	-	114+59	LT	1	6	-	0.1	-	DRIVEWAY
0010	114+73	-	114+91	RT	2	6	-	0.1	-	DRIVEWAY
0010	114+85	-	115+03	LT	-	6	-	0.1	-	DRIVEWAY
0010	114+97	-	115+65	RT	-	21	-	0.3	-	DRIVEWAY
0010	115+56	-	115+84	LT	2	10	-	0.2	-	DRIVEWAY
0010	115+86	-	116+04	RT	-	9	-	0.1	-	DRIVEWAY
0010	116+50	-	116+68	LT	-	8	-	0.1	-	DRIVEWAY
0010	116+66	-	116+84	RT	3	6	-	0.1	-	DRIVEWAY
0010	116+89	-	117+22	RT	-	18	-	0.3	-	DRIVEWAY
0010	117+05	-	117+28	LT	-	13	-	0.2	-	DRIVEWAY
0010	117+36	-	117+59	LT		12	-	0.2	-	DRIVEWAY
0010	117+59	-	117+85	LT	1	12	-	0.2	-	DRIVEWAY
0010	118+08	-	118+28	LT	-	11	-	0.2	-	DRIVEWAY
0010	118+25	-	118+55	LT	-	14	-	0.2	-	DRIVEWAY
0010	118+55	-	118+84	LT	-	14	-	0.2	-	DRIVEWAY
0010	118+83	-	119+87	RT	-	62	-	1.0	-	DRIVEWAY
0010	119+05	-	119+24	LT	-	7	-	0.1	-	DRIVEWAY
0010	119+68	-	119+98	LT	-	12	-	0.2	-	DRIVEWAY
0010	119+84	-	120+25	RT	11	12	-	0.3	-	DRIVEWAY
0010	120+72	-	120+98	RT	5	9	-	0.2	-	DRIVEWAY
0010	121+74	-	121+93	LT	-	60	-	0.8	-	DRIVEWAY
0010	121+70	-	121+91	LT	-	5	-	0.1	-	DRIVEWAY
0010	121+86	-	122+16	LT	-	12	-	0.2	-	DRIVEWAY
0010	122+32	-	122+50	RT	-	7	-	0.1	-	DRIVEWAY
0010	122+71	-	122+90	RT	1	6	-	0.1	-	DRIVEWAY
0010	124+01	-	124+36	RT	-	21	-	0.3	-	DRIVEWAY
0010	105+81	-	106+18	RT	-	23	20	0.5	50	ASPHALT ROADWAY
0010	123+73	-	124+24	RT	-	65	60	1.0	145	ASPHALT ROADWAY
0010	101+70	-	102+02	LT	-	5	-	0.1	-	TEMPORARY PEDESTRIAN SURFACE
0010	UNDISTRIBUTED - EBS				-	-	1,400	-	-	EBS
PROJECT TOTALS					50	5,380	8,600	77.0	12,400	

CONCRETE PAVEMENT 8-INCH

415.0080

CONCRETE PAVEMENT 8-INCH					
CATEGORY	STATION	TO	STATION	LOCATION	SY
0010	101+70	-	102+53	LT & RT	420
0010	102+53	-	105+62	LT & RT	1,237
0010	105+62	-	106+43	LT & RT	468
0010	106+43	-	109+43	LT & RT	1,200
0010	109+43	-	110+27	LT & RT	417
0010	110+27	-	117+95	LT & RT	3,072
0010	117+95	-	118+96	LT & RT	618
0010	118+96	-	123+18	LT & RT	1,686
0010	123+18	-	124+42	LT & RT	722
PROJECT TOTAL					9,840

ASPHALTIC SURFACE

455.0605

465.0105
ASPHALTIC
SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	TACK COAT GAL	TON
0010	105+81	-	106+18	RT	2	1
0010	123+73	-	124+24	RT	8	3
PROJECT TOTALS					10	4

ASPHALTIC DRIVEWAYS AND FIELD ENTRANCES

465.0120
ASPHALTIC
SURFACE
DRIVEWAYS AND
FIELD ENTRANCES

CATEGORY	STATION	TO	STATION	LOCATION	TON
0010	103+12	-	103+23	RT	0.1
0010	104+87	-	104+97	RT	0.1
0010	107+56	-	108+22	RT	0.7
0010	110+10	-	110+27	RT	0.2
0010	111+54	-	111+67	LT	0.1
0010	112+02	-	112+15	LT	0.1
0010	114+97	-	115+65	RT	0.6
0010	115+92	-	116+01	RT	0.1
0010	116+89	-	117+22	RT	0.3
0010	118+83	-	119+84	RT	1.4
0010	119+70	-	119+95	LT	0.1
0010	121+74	-	121+93	LT	2.6
0010	121+70	-	121+91	LT	0.2
0010	121+88	-	122+13	LT	0.1
0010	124+06	-	124+36	RT	0.3
PROJECT TOTAL					7.0

DRILLED BARS

416.0610

416.0620

DRILLED TIE
BARS

DRILLED DOWEL
BARS

CATEGORY	STATION	TO	STATION	LOCATION	EACH	EACH	REMARKS
0010	101+70	-	101+70	LT & RT	-	28	MADISON STREET MAINLINE PAVEMENT
0010	102+03	-	102+34	RT	-	23	CHATHAM STREET PAVEMENT
0010	109+68	-	110+01	RT	-	24	WALL STREET PAVEMENT
0010	109+98	-	109+98	RT	9	-	WALL STREET CURB & GUTTTER
0010	118+40	-	118+76	RT	-	32	W. MILL STREET PAVEMENT
0010	118+76	-	119+00	RT	15	-	W. MILL STREET CURB & GUTTER
0010	124+42	-	124+42	LT & RT	-	37	MADISON STREET MAINILNE PAVEMENT
PROJECT TOTALS					24	144	

3

CONCRETE CURB & GUTTER									
					601.0409	601.0411	601.0452	601.0600	650.5500
					CONCRETE CURB & GUTTER 30-INCH TYPE A	CONCRETE CURB & GUTTER 30-INCH TYPED	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPED	CONCRETE CURB PEDESTRIAN	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF	LF	LF
0010	101+70	-	124+42	LT	2,276	-	-	25	25
0010	101+70	-	102+04	RT	49	-	-	-	-
0010	102+34	-	105+83	RT	91	-	310	-	-
0010	106+13	-	109+68	RT	102	-	299	28	28
0010	110+00	-	118+41	RT	120	-	769	-	-
0010	119+01	-	123+72	RT	151	-	422	-	-
0010	124+23	-	124+42	RT	66	40	-	-	40
PROJECT TOTALS					2,855	40	1,800	53	93

3

CONCRETE STEPS

602.1500 CONCRETE STEPS					
CATEGORY	STATION	TO	STATION	LOCATION	SF
0010	101+85	-	101+90	RT	17
PROJECT TOTAL					17

STORM SEWER PIPE

608.0412 608.0424 608.3012 608.3015 608.3018 608.3024								
STORM SEWER PIPE STORM SEWER PIPE								
REINFORCED CONCRETE CLASS IV 12-INCH REINFORCED CONCRETE CLASS IV 24-INCH STORM SEWER PIPE CLASS III-A 12-INCH STORM SEWER PIPE CLASS III-A 15-INCH STORM SEWER PIPE CLASS III-A 18-INCH STORM SEWER PIPE CLASS III-A 24-INCH								
CATEGORY	FROM STRUCTURE ID	TO STRUCTURE ID	LF	LF	LF	LF	LF	LF
0010	1.1A	1.1B	39	-	-	-	-	-
0010	E1.2	1.2A	-	-	-	23	-	-
0010	1.2A	1.2B	-	-	39	-	-	-
0010	1.2A	1.2C	-	-	10	-	-	-
0010	2.1	2.2	-	-	-	-	348	-
0010	2.1	2.1A	-	-	-	7	-	-
0010	2.1	2.1B	-	-	33	-	-	-
0010	2.1A	2.1C	-	-	10	-	-	-
0010	2.2	3.1	-	-	-	-	-	261
0010	2.2	2.2A	-	-	-	6	-	-
0010	2.2	2.2B	-	-	33	-	-	-
0010	2.2A	2.2C	-	-	10	-	-	-
0010	3.1	3.2	-	-	-	-	-	245
0010	3.2	4.1	-	-	-	-	-	162
0010	3.2	3.2A	-	-	-	6	-	-
0010	3.2	3.2B	33	-	-	-	-	-
0010	3.2A	3.2C	18	-	-	-	-	-
0010	4.1	4.2	-	-	-	-	-	233
0010	4.1	4.1A	-	-	6	-	-	-
0010	4.1	4.1B	-	-	32	-	-	-
0010	4.2	4.2A	-	-	-	116	-	-
0010	4.2A	4.2B	10	-	-	-	-	-
0010	4.2B	4.2C	39	-	-	-	-	-
0010	4.2	5.1	-	162	-	-	-	-
0010	5.1	OUTFALL	-	42	-	-	-	-
PROJECT TOTALS			139	204	173	158	348	901

PIPE UNDERDRAIN

310.0115 612.0106 645.0111						
BASE AGGREGATE OPEN-GRADED PIPE UNDERDRAIN 6-INCH GEOTEXTILE TYPE DF SCHEDULE A						
CATEGORY	STRUCTURE ID	STATION	LOCATION	CY	LF	SY
0010	1.2C	105+54	19.5' LT	1	10	6
0010	2.1C	109+24	19.5' LT	1	10	6
0010	2.1B	109+34	19.5' RT	1	10	6
0010	2.2C	112+72	19.5' LT	1	10	6
0010	2.2B	112+72	19.5' RT	1	10	6
0010	3.2A	117+86	19.5' LT	1	10	6
0010	3.2B	117+86	19.5' RT	1	10	6
0010	4.1A	119+50	19.5' LT	1	10	6
0010	4.1B	119+50	19.5' RT	1	10	6
0010	4.2A	112+99	19.5' LT	1	10	6
PROJECT TOTALS				10	100	60

RECONNECT STORM SEWER LATERALS

SPV.0060.02 SPECIAL (02. RECONNECT STORM SEWER LATERALS)			
CATEGORY	STATION	LOCATION	EACH
0010	117+86	19.5' RT	1
0010	UNDISTRIBUTED		1
PROJECT TOTAL			2

UTILITY LINE OPENING (ULO)

SPV.0060.01 SPECIAL (01. UTILITY LINE OPENING (ULO))			
CATEGORY	STATION	LOCATION	EACH
0010	UNDISTRIBUTED		10
PROJECT TOTAL			10

3

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE ID	STATION	LOCATION	611.0530	611.0624	611.2004	611.2005	611.3004	611.3230	650.4000	SPV.0060.03 SPECIAL (03.	RIM** ELEVATION	INVERT*** ELEVATION	DEPTH**** FT
				MANHOLE COVERS	INLET COVERS	MANHOLES 4-FT	MANHOLES 5-FT	INLETS 4-FT DIAMETER	INLETS 2X3-FT	CONSTRUCTION STAKING STORM SEWER	INLET COVER TYPE DRIVEWAY SPECIAL)			
				TYPE J EACH	TYPE H EACH	DIAMETER EACH	DIAMETER EACH	DIAMETER EACH	EACH	EACH	EACH			
0010	1.1A	101+83	19.6' LT	-	1	-	-	1	-	1	-	900.96	898.35	1.78
0010	1.1B	101+83	19.4' RT	-	1	-	-	-	1	1	-	901.60	898.54	2.23
0010	1.2A	105+64	19.5' LT	-	1	-	-	-	1	1	-	896.61	892.17	3.63
0010	1.2B	105+64	19.5' RT	-	1	-	-	-	1	1	-	897.67	893.20	3.64
0010	1.2C	105+54	19.5' LT	-	1	-	-	-	1	1	-	896.75	892.62	3.30
0010	2.1	109+34	13.0' LT	1	-	1	-	-	-	1	-	892.76	887.95	3.78
0010	2.1A	109+34	19.5' LT	-	1	-	-	-	1	1	-	892.56	888.23	3.52
0010	2.1B	109+34	19.5' RT	-	1	-	-	-	1	1	-	893.08	888.61	3.64
0010	2.1C	109+24	19.5' LT	-	1	-	-	-	1	1	-	892.63	888.53	3.27
0010	2.2	112+82	13.0' LT	1	-	1	-	-	-	1	-	890.56	885.71	3.86
0010	2.2A	112+82	19.5' LT	-	1	-	-	-	1	1	-	890.36	886.49	3.06
0010	2.2B	112+82	19.5' RT	-	1	-	-	-	1	1	-	890.76	886.87	3.06
0010	2.2C	112+72	19.5' LT	-	1	-	-	-	1	1	-	890.42	886.79	2.80
0010	3.1	115+43	13.0' LT	1	-	1	-	-	-	1	-	889.10	884.40	3.71
0010	3.2	117+88	13.0' LT	1	-	1	-	-	-	1	-	887.70	883.18	3.53
0010	3.2A	117+88	19.5' LT	-	1	-	-	-	1	1	-	887.55	883.96	2.78
0010	3.2B	117+86	19.5' RT	-	1	-	-	-	1	1	-	887.84	884.80	2.21
0010	3.2C	118+06	19.5' LT	-	1	-	-	-	1	1	-	887.42	884.30	2.29
0010	4.1	119+50	13.0' LT	1	-	1	-	-	-	1	-	885.84	881.00	3.85
0010	4.1A	119+50	19.5' LT	-	1	-	-	-	1	1	-	885.65	882.03	2.79
0010	4.1B	119+50	19.5' RT	-	-	-	-	-	1	1	1	886.17	882.16	3.34
0010	4.2	121+83	13.0' LT	1	-	-	1	-	-	1	-	882.18	875.34	5.85
0010	4.2A	122+99	19.5' LT	-	1	-	-	-	1	1	-	879.72	876.56	2.35
0010	4.2B	123+09	19.5' LT	-	1	-	-	-	1	1	-	879.72	876.85	2.04
0010	4.2C	123+09	19.5' RT	-	1	-	-	-	1	1	-	880.50	877.04	2.63
0010	5.1	121+91	175.0' LT	1	-	-	1	-	-	1	-	876.44	870.69	4.76
PROJECT TOTALS				7	18	5	2	1	18	26	1			

REMARKS:
STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
**RIM ELEV IS AT THE INLET COVER FLANGE LOCATION
***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF SUMP, FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

STEEL PLATE BEAM GUARD CLASS A

614.0305 STEEL PLATE BEAM GUARD CLASS A					
CATEGORY	STATION	TO	STATION	LOCATION	LF
0010	121+85	-	121+98	LT	12.5
PROJECT TOTAL					12.5

FENCE CHAIN LINK SALVAGED

616.0404 FENCE CHAIN LINK SALVAGED 4-FT						616.0406 FENCE CHAIN LINK SALVAGED 6-FT	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF
0010	121+70	-	121+90	LT	11	8	
PROJECT TOTALS					11	8	

RESTORATION ITEMS

					625.0100	629.0210	631.0300	631.1000
						FERTILIZER		
					TOPSOIL	TYPE B	SOD WATER	SOD LAWN
CATEGORY	STATION	TO	STATION	LOCATION	SY	CWT	MGAL	SY
0010	101+66	-	124+42	LT	1,305	0.8	74	1,305
0010	101+70	-	102+03	RT	25	0.1	1	25
0010	102+34	-	105+83	RT	265	0.2	15	265
0010	106+14	-	109+68	RT	200	0.1	11	200
0010	110+01	-	118+40	RT	500	0.3	28	500
0010	118+75	-	123+72	RT	320	0.2	18	320
0010	123+96	-	124+42	RT	45	0.1	3	45
0010	UNDISTRIBUTED				340	0.2	20	340
PROJECT TOTALS					3,000	2.0	170	3,000

SILT FENCE

					628.1504	628.1520
					SILT FENCE	SILT FENCE
CATEGORY	STATION	TO	STATION	LOCATION	LF	MAINTENANCE LF
0010	121+68	-	121+80	LT	45	45
0010	UNDISTRIBUTED				55	55
PROJECT TOTALS					100	100

MOBILIZATIONS EROSION CONTROL

628.1905 MOBILIZATIONS EROSION CONTROL EACH		628.1910 MOBILIZATIONS EROSION CONTROL EACH	
CATEGORY	DESCRIPTION	EACH	EACH
0010	PROJECT 6995-04-74	12	6
PROJECT TOTALS		12	6

TRACKING PADS

628.7560 TRACKING PADS EACH	
CATEGORY	DESCRIPTION
0010	BEGIN PROJECT LIMITS
0010	END PROJECT LIMITS
0010	UNDISTRIBUTED
PROJECT TOTAL	

INLET PROTECTION

CATEGORY	STATION	LOCATION	628.7005	628.7020	REMARKS
			INLET	INLET	
			PROTECTION	PROTECTION	
			TYPE A	TYPE D	
			EACH	EACH	
0010	101+83	LT	-	1	PROPOSED
0010	101+83	RT	-	1	PROPOSED
0010	101+90	LT	-	1	EXISTING
0010	101+90	RT	-	1	EXISTING
0010	CHATHAM STREET & ROSENDALE STREET		-	2	EXISTING
0010	105+54	LT	-	1	PROPOSED
0010	105+64	LT	1	-	EXISTING
0010	105+64	LT	-	1	PROPOSED
0010	105+64	RT	-	1	PROPOSED
0010	105+67	RT	-	1	EXISTING
0010	105+68	LT	-	1	EXISTING
0010	GREENWICH STREET & ROSENDALE STREET		-	2	EXISTING
0010	109+24	LT	-	1	PROPOSED
0010	109+34	LT	-	1	PROPOSED
0010	109+34	RT	-	1	PROPOSED
0010	109+52	RT	-	1	EXISTING
0010	109+84	LT	-	1	EXISTING
0010	WALL STREET & ROSENDALE STREET		-	2	EXISTING
0010	112+72	LT	-	1	PROPOSED
0010	112+82	LT	-	1	PROPOSED
0010	112+82	RT	-	1	PROPOSED
0010	117+86	RT	-	1	EXISTING
0010	117+86	RT	-	1	PROPOSED
0010	117+88	LT	-	1	PROPOSED
0010	117+93	LT	-	1	EXISTING
0010	118+06	LT	-	1	PROPOSED
0010	W. MILL STREET & FIRST STREET		-	2	EXISTING
0010	119+50	LT	-	1	PROPOSED
0010	119+50	RT	-	1	PROPOSED
0010	122+32	LT	-	1	EXISTING
0010	122+99	LT	-	1	PROPOSED
0010	123+09	RT	-	1	EXISTING
0010	123+09	RT	-	1	PROPOSED
0010	123+09	LT	-	1	PROPOSED
0010	ROWELL STREET, EAST OF MADISON STREET		-	2	EXISTING
0010	MADISON STREET, NORTH OF ROWELL STREET		-	2	EXISTING
PROJECT TOTALS			1	41	

REMOVING SIGNS

CATEGORY	SIGN NO.	STATION	LOCATION	638.2602	638.3000	REMARKS
				REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
0010	E1-1	102+00	RT	1	1	WEIGHT LIMIT 5 TONS
0010	E1-2	102+35	RT	1	1	STOP
0010	E1-3	102+37	RT	1	1	STREET NAME (2)
0010	E1-4	102+89	RT	1	1	NO PARKING ANY TIME
0010	E1-5	104+40	RT	1	1	BUSINESS 151
0010	E1-6	105+13	RT	1	1	NO PARKING ANY TIME
0010	E1-7	105+72	RT	1	1	STREET NAME (2)
0010	E1-8	106+13	RT	1	1	STOP
0010	E1-9	106+46	RT	1	1	NO PARKING ANY TIME
0010	E2-1	107+78	RT	1	1	NO PARKING ANY TIME
0010	E2-2	108+56	RT	1	1	SPEED LIMIT 25
0010	E2-3	109+06	RT	1	1	NO PARKING ANY TIME
0010	E2-4	109+63	RT	1	-	NO TRUCKS, ON UTILITY POLE
0010	E2-5	110+00	RT	1	1	STOP, STREET NAME (2)
0010	E2-6	112+24	RT	1	1	NO PARKING ANY TIME
0010	E3-1	113+37	RT	1	1	NO PARKING ANY TIME
0010	E3-2	115+01	RT	1	1	NO PARKING ANY TIME
0010	E3-3	116+49	RT	1	1	NO PARKING ANY TIME
0010	E3-4	116+71	LT	1	1	SPEED LIMIT 25
0010	E3-5	117+56	RT	1	1	HOSPITAL RIGHT
0010	E3-6	117+92	RT	1	1	PARKING DIAGONAL RIGHT
0010	E3-7	118+11	RT	1	1	STREET NAME (2)
0010	E3-8	118+23	LT	1	-	TO CTH G LEFT, ON UTILITY POLE
0010	E3-9	118+74	RT	1	1	STOP
0010	E3-10	118+81	RT	1	-	TO CTH G RIGHT, ON UTILITY POLE
0010	E4-1	119+30	LT	1	-	TO CTH G STRAIGHT/LEFT, ON UTILITY POLE
0010	E4-2	121+39	RT	1	1	NO PARKING ANY TIME
0010	E4-3	122+64	RT	1	1	NO PARKING ANY TIME
0010	E4-4	123+36	RT	1	1	STREET NAME (2)
0010	E4-5	124+00	RT	1	1	STOP
PROJECT TOTALS				30	26	

NOTE: SIGNS AT THE SAME LOCATION ARE COUNTED AS ONE SIGN REMOVAL

MOVING SIGNS

CATEGORY	SIGN NO.	FROM STATION	TO STATION	LOCATION	638.2102	638.4000	REMARKS
					MOVING SIGNS TYPE II EACH	MOVING SMALL SIGN SUPPORTS EACH	
0010	4-13	124+40	124+31	RT	1	1	
0010	4-14	121+81	121+81	LT	1	1	IN PARKING LOT
0010	4-15	121+83	121+83	LT	1	1	IN PARKING LOT
PROJECT TOTALS					3	3	

PERMANENT SIGNING											
CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE			634.0814	634.0816	637.2210	REMARKS
					IN	X	IN	POSTS TUBULAR	POSTS TUBULAR	SIGNS TYPE II	
								STEEL 2X2-INCH	STEEL 2X2-INCH	REFLECTIVE H	
							X 14-FT	X 16-FT			
							EACH	EACH	SF		
0010	1-1	102+36	RT	R1-1	30	X	30	1	-	5.18	
0010	1-2	102+42	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	1-3	102+42	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	1-4	102+82	RT	R7-1D	18	X	24	1	-	3.00	
0010	1-5	103+53	RT	J4-1	24	X	36	1	-	6.00	
0010	1-6	105+31	RT	R7-1D	18	X	24	1	-	3.00	
0010	1-7	105+73	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	1-8	105+73	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	1-9	106+15	RT	R1-1	30	X	30	1	-	5.18	
0010	1-10	106+85	RT	R7-1D	18	X	24	1	-	3.00	
0010	2-1	108+75	RT	R7-1D	18	X	24	1	-	3.00	
0010	2-2	109+33	LT	R3-17	30	X	24	1	-	5.00	
0010	2-3	109+55	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	2-4	109+55	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	2-5	110+03	RT	R1-1	30	X	30	1	-	5.18	
0010	2-6	110+40	RT	R3-17	30	X	24	1	-	5.00	
0010	2-7	110+80	RT	R7-1D	18	X	24	1	-	3.00	
0010	2-8	111+50	RT	R2-1	24	X	30	1	-	5.00	25 MPH
0010	3-1	113+15	RT	R7-1D	18	X	24	1	-	3.00	
0010	3-2	116+15	LT	R2-1	24	X	30	1	-	5.00	25 MPH
0010	3-3	116+35	RT	R7-1D	18	X	24	1	-	3.00	
0010	3-4	117+28	RT	JH-1	24	X	45	-	1	7.50	
0010	3-5	117+88	RT	J22-1	24	X	57	-	1	9.50	
0010	3-6	118+03	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	3-7	118+03	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	3-8	118+50	LT	J22-1	24	X	57	-	1	9.50	
0010	3-9	118+77	RT	R1-1	30	X	30	1	-	5.18	
0010	4-1	119+03	RT	R7-1D	18	X	24	1	-	3.00	
0010	4-2	119+45	LT	J22-1	24	X	57	-	1	9.50	
0010	4-3	120+65	RT	R7-1D	18	X	24	1	-	3.00	
0010	4-4	121+70	RT	R2-1	24	X	30	1	-	5.00	25 MPH
0010	4-5	122+20	RT	R7-1D	18	X	24	1	-	3.00	
0010	4-6	122+60	RT	R3-17	30	X	24	-	1	5.00	
0010	4-7	122+60	RT	R3-17BP	30	X	12	-	-	2.50	ON POST WITH SIGN 4-6
0010	4-8	123+27	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	4-9	123+27	RT	D3-1	-	X	-	-	-	-	SIGN AND POST BY OTHERS
0010	4-10	123+99	RT	R1-1	30	X	30	1	-	5.18	
0010	4-11	124+25	LT	R3-17	30	X	24	1	-	5.00	
0010	4-12	124+25	LT	R3-17AP	30	X	12	-	-	2.50	ON POST WITH SIGN 4-11
PROJECT TOTALS								22	5	137.90	

3

3

TRAFFIC CONTROL																					
				643.0420		643.0705		643.0900		643.0910		643.0920		643.1050		643.5000	644.1430	644.1440	644.1601	644.1605	644.1810
				TRAFFIC CONTROL		TRAFFIC CONTROL				TRAFFIC CONTROL		TRAFFIC CONTROL		TRAFFIC CONTROL			TEMPORARY PEDESTRIAN	TEMPORARY PEDESTRIAN	TEMPORARY PEDESTRIAN	TEMPORARY PEDESTRIAN	TEMPORARY PEDESTRIAN
				BARRICADES TYPE III	BARRICADES TYPE III	WARNING LIGHTS TYPE A	WARNING LIGHTS TYPE A	SIGNS	TRAFFIC CONTROL SIGNS	SIGNS TYPE I	NO.	SIGNS TYPE II	NO.	SIGNS PCMS	SIGNS PCMS	TRAFFIC CONTROL	TEMPORARY PEDESTRIAN SURFACE PLATE	TEMPORARY PEDESTRIAN SURFACE MATTING	TEMPORARY PEDESTRIAN CURB RAMP	TEMPORARY PEDESTRIAN WARNING FIELD	TEMPORARY PEDESTRIAN BARRICADE
CATEGORY	DESCRIPTIONS	DURATION	NO. DEVICES	DAY	NO. DEVICES	DAY	NO. DEVICES	DAY	EACH	CYCLES	EACH	CYCLES	NO. DEVICES	DAY	EACH	SF	SF	DAY	SF	LF	
0010	TRAFFIC CONTROL	162	DAYS	16	2,592	32	5,184	26	4,212	-	-	-	-	2	14	1	-	-	-	-	-
0010	DETOUR	162	DAYS	1	162	2	324	161	26,082	3	1	7	1	-	-	-	-	-	-	-	-
0010	PEDESTRIAN DETOUR & ACCOMMODATIONS	162	DAYS		-		-	42	6,804	-	-	-	-	-	-	-	-	165	-	-	264
0010	UNDISTRIBUTED			-	446	-	892	-	5,402	-	-	-	-	-	-	-	200	235	20	20	136
PROJECT TOTALS					3,200		6,400		42,500		3		7		14	1	200	400	20	20	400

PAVEMENT MARKINGS													
				646.2020		646.5020		646.5120		646.5220		646.6120	646.7420
				MARKING LINE EPOXY 6-INCH (YELLOW)		MARKING ARROW EPOXY (BIKE LANE ARROW, WHITE)		MARKING WORD EPOXY ("BIKE", WHITE) ("LANE", WHITE) ("ENDS", WHITE)		MARKING SYMBOL EPOXY (BIKE LANE SYMBOL, WHITE)		MARKING STOP LINE EPOXY 18-INCH (WHITE)	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	EACH	EACH	EACH	LF	LF
0010	101+70	-	124+42	LT & RT	525	5750	17	1	1	1	17	95	1,055
PROJECT TOTALS					6,275		17		3		17	95	1,055

CONSTRUCTION STAKING									
					650.4500	650.7000	650.9500.01	650.9911.01	650.9920
					CONSTRUCTION STAKING SUBGRADE	CONSTRUCTION STAKING CONCRETE PAVEMENT	CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 6995-04-74)	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 6995-04-74)	CONSTRUCTION STAKING SLOPE STAKES
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	LF
0010	101+70	-	124+42	LT & RT	2,272	2,272	-	-	2,272
0010	PROJECT 6995-04-74				-	-	1	1	-
PROJECT TOTALS					2,272	2,272	1	1	2,272

SAWING

CATEGORY	STATION	TO	STATION	LOCATION	690.0150	690.0250	REMARKS
					SAWING ASPHALT LF	SAWING CONCRETE LF	
0010	101+70	-	101+70	LT & RT	-	41	ROADWAY/CURB & GUTTER
0010	101+72	-	101+72	LT	-	5	SIDEWALK
0010	101+75	-	101+75	RT	-	5	SIDEWALK
0010	101+85	-	101+94	RT	-	12	SIDEWALK
0010	101+94	-	101+98	RT	-	4	SIDEWALK
0010	101+97	-	102+32	LT	-	35	DRIVEWAY
0010	102+03	-	102+34	RT	-	31	ROADWAY/CURB & GUTTER
0010	102+38	-	102+43	RT	-	5	SIDEWALK
0010	102+40	-	102+44	LT	-	4	SIDEWALK
0010	102+67	-	102+79	LT	-	12	DRIVEWAY
0010	102+77	-	102+82	RT	-	5	SIDEWALK
0010	103+11	-	103+22	LT	-	11	DRIVEWAY
0010	103+12	-	103+22	RT	10	-	DRIVEWAY
0010	103+53	-	103+58	RT	-	5	SIDEWALK
0010	103+95	-	104+31	LT	-	36	DRIVEWAY
0010	104+14	-	104+18	RT	-	4	SIDEWALK
0010	104+47	-	104+50	LT	-	3	SIDEWALK
0010	104+66	-	104+70	RT	-	4	SIDEWALK
0010	104+75	-	104+93	LT	-	18	DRIVEWAY
0010	104+86	-	104+96	RT	10	-	DRIVEWAY
0010	105+09	-	105+21	LT	-	12	SIDEWALK
0010	105+40	-	105+44	RT	-	4	SIDEWALK
0010	105+44	-	105+49	LT	-	5	SIDEWALK
0010	105+67	-	105+73	RT	-	14	SIDEWALK
0010	105+73	-	105+77	RT	-	4	SIDEWALK
0010	105+81	-	106+18	RT	37	-	ROADWAY
0010	106+18	-	106+86	RT	-	82	DRIVEWAY
0010	107+14	-	107+22	RT	-	8	SIDEWALK
0010	107+56	-	108+22	RT	64	-	DRIVEWAY
0010	108+70	-	108+74	RT	-	4	SIDEWALK
0010	108+92	-	108+94	RT	-	2	SIDEWALK
0010	109+10	-	109+14	RT	-	4	SIDEWALK
0010	109+17	-	109+48	LT	-	31	SIDEWALK
0010	109+36	-	109+68	RT	-	38	SIDEWALK
0010	109+68	-	110+01	RT	-	56	ROADWAY/CURB & GUTTER
0010	110+03	-	110+17	LT	-	14	DRIVEWAY
0010	110+06	-	110+10	RT	-	4	SIDEWALK
0010	110+10	-	110+76	RT	36	55	DRIVEWAY
0010	110+52	-	111+04	LT	-	52	SIDEWALK
0010	111+04	-	111+16	LT	-	12	DRIVEWAY
0010	111+28	-	111+38	LT	-	10	SIDEWALK
0010	111+54	-	111+67	LT	13	-	DRIVEWAY
0010	111+64	-	111+68	RT	-	4	SIDEWALK
0010	111+67	-	112+02	LT	-	35	SIDEWALK
0010	112+02	-	112+15	LT	13	-	DRIVEWAY
0010	112+15	-	112+37	LT	-	22	SIDEWALK
0010	112+19	-	112+23	RT	-	4	SIDEWALK
0010	112+63	-	112+72	RT	-	9	DRIVEWAY
0010	112+70	-	112+74	LT	-	4	SIDEWALK
0010	113+01	-	113+05	RT	-	4	SIDEWALK

(CONTINUED)

SAWING (CONTINUED)

CATEGORY	STATION	TO	STATION	LOCATION	690.0150	690.0250	REMARKS
					SAWING ASPHALT LF	SAWING CONCRETE LF	
0010	113+49	-	113+79	LT	-	30	DRIVEWAY
0010	113+71	-	113+75	RT	-	4	SIDEWALK
0010	114+09	-	114+13	LT	-	4	SIDEWALK
0010	114+34	-	114+37	LT	-	3	SIDEWALK
0010	114+42	-	114+46	RT	-	4	SIDEWALK
0010	114+71	-	114+76	LT	-	5	SIDEWALK
0010	114+88	-	115+00	LT	-	12	DRIVEWAY
0010	114+97	-	115+66	RT	69	-	DRIVEWAY
0010	115+36	-	115+40	LT	-	4	SIDEWALK
0010	115+84	-	115+87	RT	-	3	SIDEWALK
0010	115+89	-	116+01	RT	12	-	DRIVEWAY
0010	116+08	-	116+11	LT	-	3	SIDEWALK
0010	116+10	-	116+16	RT	-	6	SIDEWALK
0010	116+36	-	116+39	LT	-	3	SIDEWALK
0010	116+45	-	116+47	RT	-	2	SIDEWALK
0010	116+52	-	116+62	LT	-	10	DRIVEWAY
0010	116+55	-	116+59	RT	-	4	SIDEWALK
0010	116+66	-	116+68	LT	-	2	SIDEWALK
0010	116+89	-	117+22	RT	33	-	DRIVEWAY
0010	117+05	-	117+27	LT	-	22	DRIVEWAY
0010	117+22	-	117+26	RT	-	4	SIDEWALK
0010	117+39	-	117+73	LT	-	34	DRIVEWAY
0010	117+79	-	117+90	RT	-	11	SIDEWALK
0010	117+94	-	117+99	LT	-	5	SIDEWALK
0010	118+09	-	118+13	RT	-	5	SIDEWALK
0010	118+10	-	118+81	LT	-	71	DRIVEWAY
0010	118+40	-	119+02	RT	-	79	ROADWAY/CURB & GUTTER
0010	119+05	-	119+21	LT	-	16	DRIVEWAY
0010	119+06	-	119+09	RT	-	5	SIDEWALK
0010	119+09	-	119+84	RT	119	-	DRIVEWAY
0010	119+48	-	119+52	LT	-	4	SIDEWALK
0010	119+70	-	119+95	LT	25	-	DRIVEWAY
0010	120+58	-	120+64	RT	-	6	SIDEWALK
0010	121+20	-	121+26	RT	-	6	SIDEWALK
0010	121+74	-	121+93	LT	257	-	PARKING LOT (STORM SEWER TRENCH)
0010	121+70	-	121+91	LT	12	-	PATH (STORM SEWER TRENCH)
0010	121+88	-	122+13	LT	25	-	DRIVEWAY
0010	122+05	-	122+10	RT	-	5	SIDEWALK
0010	122+35	-	122+43	RT	-	8	SIDEWALK
0010	122+43	-	122+74	RT	-	32	SIDEWALK
0010	122+54	-	124+26	LT	-	179	SIDEWALK
0010	123+07	-	123+11	RT	-	4	SIDEWALK
0010	123+63	-	123+66	RT	-	5	SIDEWALK
0010	124+00	-	124+24	RT	32	5	ROADWAY/CURB & GUTTER
0010	124+21	-	124+21	RT	-	5	SIDEWALK
0010	124+21	-	124+32	RT	43	-	DRIVEWAY
0010	124+26	-	124+26	LT	-	4	SIDEWALK
0010	124+30	-	124+32	RT	-	4	SIDEWALK
0010	124+42	-	124+42	LT & RT	-	49	ROADWAY/CURB & GUTTER

PROJECT TOTALS 810 1,400

REMOVE EXISTING WATER STRUCTURES							
CATEGORY	STREET	STATION	OFFSET DIST.	OFFSET DIR.	SPV.0060.06	SPV.0060.07	SPV.0060.08
					REMOVE EX.	REMOVE	REMOVE
					WATER	EX. HYDRANT	EX. WATER
					VALVE BOX		MANHOLE
EACH	EACH	EACH					
0010	MADISON	101+79.9	10.6'	RT	1	-	-
0010	MADISON	101+82.8	23.7'	RT	-	1	-
0010	MADISON	101+82.8	21.6'	RT	1	-	-
0010	MADISON	101+87.3	13.5'	RT	1	-	-
0010	MADISON	102+24.4	37.8'	RT	1	-	-
0010	MADISON	105+70.6	23.5'	RT	-	1	-
0010	MADISON	105+70.9	21.5'	RT	1	-	-
0010	MADISON	105+87.3	12.9'	RT	1	-	-
0010	MADISON	105+84.4	34.8'	RT	1	-	-
0010	MADISON	109+92.8	33.3'	RT	1	-	-
0010	MADISON	110+11.3	14.5'	RT	1	-	-
0010	MADISON	110+16.2	23.0'	RT	1	-	-
0010	MADISON	110+16.0	25.3'	RT	-	1	-
0010	MADISON	114+11.5	19.7'	RT	1	-	-
0010	MADISON	114+16.6	21.4'	RT	1	-	-
0010	MADISON	114+16.2	23.8'	RT	-	1	-
0010	MADISON	117+91.8	13.5'	RT	1	-	-
0010	MADISON	117+95.9	18.9'	RT	1	-	-
0010	MADISON	117+96.0	25.1'	RT	-	1	-
0010	MADISON	118+22.7	33.5'	RT	1	-	-
0010	MADISON	122+99.6	14.9'	RT	1	-	-
0010	MADISON	123+86.0	26.4'	LT	-	-	1
0010	MADISON	123+92.4	7.0'	RT	1	-	-
0010	MADISON	123+91.9	30.7'	RT	1	-	-
0010	MADISON	124+13.3	18.2'	RT	1	-	-
0010	MADISON	124+13.8	24.4'	RT	-	1	-
TOTAL PROJECT 6995-04-75					19	6	1

INSULATION BOARD POLYSTYRENE 2-INCH			
612.0902.S INSULATION BOARD POLYSTYRENE 2-INCH			
CATEGORY	STATION	LOCATION	SY
0010	101+83.3	8.0' RT	3.56
0010	105+63.8	8.0' RT	3.56
0010	109+34.1	8.0' RT	3.56
0010	109+51.1	13.0' LT	3.56
0010	109+69.0	13.0' LT	3.56
0010	109+97.6	13.0' LT	3.56
0010	110+34.5	13.0' LT	3.56
0010	110+66.5	13.0' LT	3.56
0010	111+60.9	13.0' LT	3.56
0010	112+00.5	13.0' LT	3.56
0010	112+30.9	13.0' LT	3.56
0010	112+82.0	8.0' RT	3.56
0010	112+91.9	13.0' LT	3.56
0010	113+37.0	13.0' LT	3.56
0010	114+21.6	13.0' LT	3.56
0010	114+91.3	13.0' LT	3.56
0010	115+16.6	13.0' LT	3.56
0010	115+84.2	13.0' LT	3.56
0010	116+43.8	13.0' LT	3.56
0010	116+85.4	13.0' LT	3.56
0010	117+46.7	13.0' LT	3.56
0010	117+86.9	8.0' RT	3.56
0010	118+03.4	19.5' LT	3.56
0010	118+03.4	13.0' LT	3.56
0010	118+55.5	13.0' LT	3.56
0010	118+89.0	13.0' LT	3.56
0010	119+32.6	13.0' LT	3.56
0010	119+50.0	8.0' RT	3.56
0010	122+35.1	15.9' LT	3.56
0010	123+09.0	8.0' RT	3.56
0010	UNDISTRIBUTED		32.00
TOTAL PROJECT 6995-04-75			138.80

WATER APPURTENANCES SUMMARY																	
CATEGORY	STREET	STATION	OFFSET DISTANCE	OFFSET DIRECTION	SPV.0060.13	SPV.0060.14	SPV.0060.15	SPV.0060.16	SPV.0060.17	SPV.0060.18	SPV.0060.19	SPV.0060.20	SPV.0060.21	SPV.0060.22	SPV.0060.23	SPV.0060.24	SPV.0060.25
					WATER VALVE	WATER VALVE	WATER VALVE		TEES	TEES	TEES	BEND	BEND	BEND	CAP	CAP	CONNECT TO
					& BOX 4-INCH	& BOX 6-INCH	& BOX 8-INCH	FIRE HYDRANT	8"X4"X8" SPECIAL	8"X6"X8" SPECIAL	8"X8"X8" SPECIAL	90-DEGREE 4-INCH SPECIAL	90-DEGREE 6-INCH SPECIAL	45-DEGREE 8-INCH SPECIAL	4-INCH SPECIAL	8-INCH SPECIAL	EXISTING WATER MAIN
0010	MADISON	101+79.9	7.9'	RT	-	-	-	-	-	-	-	-	-	-	1	-	1
0010	MADISON	102+10.7	8.0'	RT	-	-	-	-	-	-	1	-	-	-	-	-	-
0010	MADISON	102+10.7	25.5'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	102+10.7	38.2'	RT	-	-	-	-	1	-	-	-	-	-	-	1	-
0010	MADISON	102+19.4	38.2'	RT	1	-	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	102+24.4	38.3'	RT	-	-	-	-	-	-	-	1	-	-	-	-	1
0010	MADISON	102+43.8	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	102+60.9	8.0'	RT	-	-	-	-	-	1	-	-	-	-	-	-	-
0010	MADISON	102+61.0	22.5'	RT	-	1	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	102+61.0	25.5'	RT	-	-	-	1	-	-	-	-	-	-	-	-	-
0010	MADISON	105+73.0	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	105+84.5	68.0'	RT	-	-	-	-	-	-	-	1	-	-	-	-	1
0010	MADISON	105+89.3	68.0'	RT	1	-	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	106+06.2	63.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	106+06.1	68.0'	RT	-	-	-	-	1	-	-	-	-	-	-	1	-
0010	MADISON	106+06.6	8.0'	RT	-	-	-	-	-	-	1	-	-	-	-	-	-
0010	MADISON	106+23.3	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	106+41.3	8.0'	RT	-	-	-	-	-	1	-	-	-	-	-	-	-
0010	MADISON	106+41.3	22.5'	RT	-	1	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	106+41.3	25.5'	RT	-	-	-	1	-	-	-	-	-	-	-	-	-
0010	MADISON	109+57.0	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	109+72.2	8.0'	RT	-	-	-	-	-	-	1	-	-	-	-	-	-
0010	MADISON	109+74.1	25.5'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	109+74.8	32.7'	RT	-	-	-	-	-	1	-	-	-	-	-	1	-
0010	MADISON	109+87.7	32.4'	RT	-	1	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	109+92.7	32.3'	RT	-	-	-	-	-	-	-	-	1	-	-	-	1
0010	MADISON	110+07.3	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	110+34.7	25.5'	RT	-	-	-	1	-	-	-	-	-	-	-	-	-
0010	MADISON	110+34.7	22.5'	RT	-	1	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	114+17.9	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	114+22.9	8.0'	RT	-	-	-	-	-	1	-	-	-	-	-	-	-
0010	MADISON	114+22.9	22.5'	RT	-	1	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	114+22.9	25.5'	RT	-	-	-	1	-	-	-	-	-	-	-	-	-
0010	MADISON	117+73.2	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	117+78.2	8.0'	RT	-	-	-	-	-	1	-	-	-	-	-	-	-
0010	MADISON	117+78.2	22.5'	RT	-	1	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	117+78.2	25.5'	RT	-	-	-	1	-	-	-	-	-	-	-	-	-
0010	MADISON	118+41.5	55.1'	RT	-	-	-	-	-	-	-	-	1	-	-	-	1
0010	MADISON	118+45.3	51.9'	RT	-	1	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	118+41.4	8.0'	RT	-	-	-	-	-	-	1	-	-	-	-	-	-
0010	MADISON	118+41.4	13.0'	RT	-	-	-	-	-	-	-	-	-	1	-	-	-
0010	MADISON	118+59.0	33.6'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-

(CONTINUED ON NEXT SHEET)

WATER APPURTENANCES SUMMARY (CONTINUED)																	
					SPV.0060.13	SPV.0060.14	SPV.0060.15	SPV.0060.16	SPV.0060.17	SPV.0060.18	SPV.0060.19	SPV.0060.20	SPV.0060.21	SPV.0060.22	SPV.0060.23	SPV.0060.24	SPV.0060.25
					WATER VALVE	WATER VALVE	WATER VALVE		TEES	TEES	TEES	BEND	BEND	BEND	CAP	CAP	CONNECT TO
					& BOX	& BOX	& BOX	FIRE	8"X4"X8"	8"X6"X8"	8"X8"X8"	90-DEGREE	90-DEGREE	45-DEGREE	4-INCH	8-INCH	EXISTING
					4-INCH	6-INCH	8-INCH	HYDRANT	SPECIAL	SPECIAL	SPECIAL	4-INCH	6-INCH	8-INCH	SPECIAL	SPECIAL	WATER MAIN
CATEGORY	STREET	STATION	OFFSET DISTANCE	OFFSET DIRECTION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
0010	MADISON	118+62.3	37.4'	RT	-	-	-	-	-	1	-	-	-	-	-	1	-
0010	MADISON	118+86.4	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	122+35.1	8.1'	RT	-	-	-	-	1	-	-	-	-	-	-	-	-
0010	MADISON	122+35.1	25.5'	LT	1	-	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	122+35.1	32.7'	LT	-	-	-	-	-	-	-	-	-	-	-	-	1
0010	MADISON	122+96.0	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	123+01.0	8.0'	RT	-	-	-	-	-	1	-	-	-	-	-	-	-
0010	MADISON	123+01.0	22.5'	RT	-	1	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	123+01.0	25.5'	RT	-	-	-	1	-	-	-	-	-	-	-	-	-
0010	MADISON	123+30.9	8.0'	RT	-	-	-	-	-	-	1	-	-	-	-	-	-
0010	MADISON	123+30.9	13.0'	RT	-	-	-	-	-	-	-	-	-	1	-	-	-
0010	MADISON	123+51.5	36.2'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	123+97.9	89.3'	RT	-	-	-	-	1	-	-	-	-	-	-	1	-
0010	MADISON	124+11.4	78.2'	RT	1	-	-	-	-	-	-	-	-	-	-	-	-
0010	MADISON	124+14.9	74.5'	RT	-	-	-	-	-	-	-	1	-	-	-	-	1
0010	MADISON	123+90.9	4.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	123+90.9	8.0'	RT	-	-	-	-	-	-	1	-	-	-	-	-	-
0010	MADISON	123+90.9	30.6'	LT	-	-	-	-	-	-	-	-	-	-	-	-	1
0010	MADISON	124+26.8	8.0'	RT	-	-	1	-	-	-	-	-	-	-	-	-	-
0010	MADISON	124+31.8	8.0'	RT	-	-	-	-	-	-	-	-	-	1	-	-	-
0010	MADISON	124+37.0	13.2'	RT	-	-	-	-	-	-	-	-	-	1	-	-	1
TOTAL PROJECT 6995-04-75					4	8	16	6	4	7	6	3	2	4	1	5	9

3

3

										SPV.0090.06	SPV.0090.07	SPV.0090.08	SPV.0060.33	
										PVC	PVC	PVC	ABANDON/REMOVE	
										WATER MAIN	WATER MAIN	WATER MAIN	WATER MAIN	
										4-INCH SPECIAL	6-INCH SPECIAL	8-INCH SPECIAL	PROJECT 6995-04-75	
CATEGORY	STREET	STATION	OFFSET DISTANCE	OFFSET DIRECTION	TO	STREET	STATION	OFFSET DISTANCE	OFFSET DIRECTION	LF	LF	LF	EACH	COMMENTS
0010	MADISON	101+79.9	7.9'	RT		MADISON	102+10.7	8.0'	RT	-	-	31	-	
0010	MADISON	102+10.7	8.0'	RT		CHATHAM	102+10.7	38.2'	RT	-	-	30	-	
0010	CHATHAM	102+10.7	38.2'	RT		CHATHAM	102+24.4	38.3'	RT	14	-	-	-	
0010	MADISON	102+10.7	8.0'	RT		MADISON	102+60.9	8.0'	RT	-	-	50	-	
0010	MADISON	102+60.9	8.0'	RT		MADISON	102+61.0	25.5'	RT	-	18	-	-	HYDRANT LEAD
0010	MADISON	102+60.9	8.0'	RT		MADISON	106+06.6	8.0'	RT	-	-	346	-	
0010	MADISON	106+06.6	8.0'	RT		GREENWICH	106+06.1	68.0'	RT	-	-	60	-	
0010	GREENWICH	106+06.1	68.0'	RT		GREENWICH	105+84.5	68.0'	RT	22	-	-	-	
0010	MADISON	106+06.6	8.0'	RT		MADISON	106+41.3	8.0'	RT	-	-	35	-	
0010	MADISON	106+41.3	8.0'	RT		MADISON	106+41.3	25.5'	RT	-	18	-	-	HYDRANT LEAD
0010	MADISON	106+41.3	8.0'	RT		MADISON	107+35.0	8.0'	RT	-	-	94	-	
0010	MADISON	107+35.0	8.0'	RT		MADISON	108+67.7	7.3'	RT	-	-	132	-	
0010	MADISON	108+67.7	7.3'	RT		MADISON	108+87.8	7.3'	RT	-	-	20	-	
0010	MADISON	108+87.8	7.3'	RT		MADISON	109+72.2	8.0'	RT	-	-	84	-	
0010	MADISON	109+72.2	8.0'	RT		WALL	109+74.8	32.7'	RT	-	-	25	-	
0010	WALL	109+74.8	32.7'	RT		WALL	109+92.7	32.3'	RT	-	18	-	-	
0010	MADISON	109+72.2	8.0'	RT		MADISON	110+34.7	8.0'	RT	-	-	62	-	
0010	MADISON	110+34.7	8.0'	RT		MADISON	110+34.7	25.5'	RT	-	18	-	-	HYDRANT LEAD
0010	MADISON	110+34.7	8.0'	RT		MADISON	110+40.0	8.0'	RT	-	-	5	-	
0010	MADISON	118+95.0	8.0'	RT		MADISON	121+50.0	8.0'	RT	-	-	255	-	
0010	MADISON	121+50.0	8.0'	RT		MADISON	122+35.1	8.1'	RT	-	-	85	-	
0010	MADISON	122+35.1	8.1'	RT		MADISON	122+35.1	32.7'	LT	41	-	-	-	SERVICE
0010	UNDISTRIBUTED									3	8	16	1	
TOTAL PROJECT 6995-04-75										80	80	1,330	1	

3

3

										SPV.0090.10	SPV.0090.11	SPV.0090.12	SPV.0060.04	
										DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	CLAY DAM WITHIN	
										WATER MAIN WITH	WATER MAIN WITH	WATER MAIN WITH	CONTAMINATED	
										FLUOROCARBON	FLUOROCARBON	FLUOROCARBON	SOILS	
										GASKETS	GASKETS	GASKETS		
										4-INCH SPECIAL	6-INCH SPECIAL	8-INCH SPECIAL		
CATEGORY	STREET	STATION	OFFSET DISTANCE	OFFSET DIRECTION	TO	STREET	STATION	OFFSET DISTANCE	OFFSET DIRECTION	LF	LF	LF	EACH	COMMENTS
0010	MADISON	110+40.0	8.0'	RT		MADISON	114+22.9	8.0'	RT	-	-	383	1	FIELD VERIFY
0010	MADISON	114+22.9	8.0'	RT		MADISON	114+22.9	25.5'	RT	-	18	-	-	HYDRANT LEAD
0010	MADISON	114+22.9	8.0'	RT		MADISON	117+78.2	8.0'	RT	-	-	355	-	
0010	MADISON	117+78.2	8.0'	RT		MADISON	117+78.2	25.5'	RT	-	18	-	-	HYDRANT LEAD
0010	MADISON	117+78.2	8.0'	RT		MADISON	118+41.4	8.0'	RT	-	-	63	-	
0010	MADISON	118+41.4	8.0'	RT		W. MILL	118+41.4	13.0'	RT	-	-	5	-	
0010	W. MILL	118+41.4	13.0'	RT		W. MILL	118+62.3	37.4'	RT	-	-	32	-	
0010	W. MILL	118+41.5	55.1'	RT		W. MILL	118+62.3	37.4'	RT	-	27	-	1	FIELD VERIFY
0010	MADISON	118+41.4	8.0'	RT		MADISON	118+95.0	8.0'	RT	-	-	54	1	FIELD VERIFY
0010	MADISON	122+35.1	8.1'	RT		MADISON	123+01.0	8.0'	RT	-	-	66	1	FIELD VERIFY
0010	MADISON	123+01.0	8.0'	RT		MADISON	123+01.0	25.5'	RT	-	18	-	-	HYDRANT LEAD
0010	MADISON	123+01.0	8.0'	RT		MADISON	123+30.9	8.0'	RT	-	-	30	-	
0010	MADISON	123+30.9	8.0'	RT		MADISON	123+30.9	13.0'	RT	-	-	5	-	
0010	MADISON	123+30.9	13.0'	RT		ROWELL	123+97.9	89.3'	RT	-	-	102	-	
0010	ROWELL	123+97.9	89.3'	RT		ROWELL	124+14.9	74.5'	RT	23	-	-	1	FIELD VERIFY
0010	MADISON	123+30.9	8.0'	RT		MADISON	123+90.9	8.0'	RT	-	-	60	-	
0010	MADISON	123+90.9	8.0'	RT		MADISON	123+90.9	30.6	LT	-	-	39	1	FIELD VERIFY
0010	MADISON	123+90.9	8.0'	RT		MADISON	124+31.8	8.0'	RT	-	-	41	-	
0010	MADISON	124+31.8	8.0'	RT		MADISON	124+37.0	13.2'	RT	-	-	7	1	FIELD VERIFY
0010	UNDISTRIBUTED									3	4	11	-	
TOTAL PROJECT 6995-04-75										26	85	1,253	7	

SANITARY SEWER LATERALS AND WATER SERVICES												
CATEGORY	STATION	LOCATION	SPV.0060.26	SPV.0060.27	SPV.0090.02	SPV.0060.28	SPV.0090.01	SPV.0090.09	SPV.0060.29	SPV.0060.30	SPV.0060.31	
			SANITARY	SANITARY	SANITARY	SANITARY	HDPE WATER	COPPER WATER	CORPORATION,	WATER	TEMPORARY WATER	
			WYE	WYE	LATERAL	LATERAL	SERVICE 1 TO	SERVICE 1 TO	CURB STOP &	SERVICE	SERVICE	
			8-INCH MAIN	10-INCH MAIN	6-INCH	RECONNECTION	2-INCH SPECIAL	2-INCH SPECIAL	BOX (SET)	RECONNECTION	PROJECT 6995-04-75	
			EACH	EACH	LF	EACH	LF	LF	EACH	EACH	EACH	
0010	101+99.7	LT	-	-	-	-	43	-	1	1	-	
0020	102+01.7	LT	-	1	33	1	-	-	-	-	-	
0010	102+57.9	LT	-	-	-	-	41	-	1	1	-	
0020	102+59.0	RT	-	1	33	1	-	-	-	-	-	
0020	102+61.8	LT	-	1	33	1	-	-	-	-	-	
0010	102+69.3	RT	-	-	-	-	25	-	1	1	-	
0010	103+24.7	LT	-	-	-	-	-	-	1	1	-	
0010	103+26.7	LT	-	-	-	-	-	-	1	1	-	
0020	103+32.9	RT	-	1	33	1	-	-	-	-	-	
0020	103+35.2	LT	-	1	33	1	-	-	-	-	-	
0010	103+36.3	RT	-	-	-	-	25	-	1	1	-	
0020	103+78.1	LT	-	1	33	1	-	-	-	-	-	
0010	103+80.1	LT	-	-	-	-	41	-	1	1	-	
0020	104+23.1	RT	-	1	34	1	-	-	-	-	-	
0010	104+25.0	RT	-	-	-	-	25	-	1	1	-	
0010	104+54.5	LT	-	-	-	-	41	-	1	1	-	
0020	104+62.8	LT	-	1	32	1	-	-	-	-	-	
0010	104+79.8	RT	-	-	-	-	25	-	1	1	-	
0020	104+88.6	RT	-	1	34	1	-	-	-	-	-	
0010	105+12.1	LT	-	-	-	-	41	-	1	1	-	
0020	105+14.2	LT	-	1	32	1	-	-	-	-	-	
0010	105+57.1	RT	-	-	-	-	26	-	1	1	-	
0020	105+59.0	RT	-	1	34	1	-	-	-	-	-	
0010	106+36.4	RT	-	-	-	-	25	-	1	1	-	
0020	106+38.3	RT	-	1	34	1	-	-	-	-	-	
0010	107+15.6	RT	-	-	-	-	25	-	1	1	-	
0020	107+18.2	RT	-	1	34	1	-	-	-	-	-	
0010	107+76.0	RT	-	-	-	-	25	-	1	1	-	
0010	107+87.0	RT	-	-	-	-	25	-	1	1	-	
0020	108+00.8	RT	-	1	34	1	-	-	-	-	-	
0010	108+41.4	RT	-	-	-	-	25	-	1	1	-	
0020	108+49.4	RT	-	1	34	1	-	-	-	-	-	
0020	109+02.4	RT	-	1	34	1	-	-	-	-	-	
0010	109+29.1	RT	-	-	-	-	26	-	1	1	-	
0010	109+40.0	RT	-	-	-	-	28	-	1	1	-	
0020	109+45.8	RT	-	1	34	1	-	-	-	-	-	
0010	109+51.1	LT	-	-	-	-	41	-	1	1	-	
0010	109+69.0	LT	-	-	-	-	41	-	1	1	-	
0020	109+71.7	LT	-	1	32	1	-	-	-	-	-	
0010	109+97.6	LT	-	-	-	-	43	-	1	1	-	
0020	110+04.9	LT	-	1	32	-	-	-	-	-	-	
0010	110+34.5	LT	-	-	-	-	42	-	1	1	-	
0020	110+37.0	LT	-	1	32	1	-	-	-	-	-	
0020	110+54.5	RT	-	1	34	1	-	-	-	-	-	
0010	110+63.1	RT	-	-	-	-	-	25	1	1	-	
0010	110+66.5	LT	-	-	-	-	-	41	1	1	-	
0020	110+87.0	LT	-	1	32	1	-	-	-	-	-	
0020	110+89.6	RT	-	1	34	1	-	-	-	-	-	
0020	111+29.3	RT	-	1	34	1	-	-	-	-	-	
0010	111+61.0	LT	-	-	-	-	-	41	1	1	-	

(CONTINUED ON NEXT SHEET)

3

3

SANITARY SEWER LATERALS AND WATER SERVICES (CONTINUED)												
CATEGORY	STATION	LOCATION	SPV.0060.26	SPV.0060.27	SPV.0090.02	SPV.0060.28	SPV.0090.01	SPV.0090.09	SPV.0060.29	SPV.0060.30	SPV.0060.31	
			SANITARY	SANITARY	SANITARY	SANITARY	HDPE WATER	COPPER WATER	CORPORATION,	WATER	TEMPORARY WATER	
			WYE	WYE	LATERAL	LATERAL	SERVICE 1 TO	SERVICE 1 TO	CURB STOP &	SERVICE	SERVICE	
			8-INCH MAIN	10-INCH MAIN	6-INCH	RECONNECTION	2-INCH SPECIAL	2-INCH SPECIAL	BOX (SET)	RECONNECTION	PROJECT 6995-04-75	
			EACH	EACH	LF	EACH	LF	LF	EACH	EACH	EACH	
0020	111+66.3	LT	-	1	32	1	-	-	-	-	-	-
0010	111+67.2	RT	-	-	-	-	-	25	1	1	-	-
0020	111+69.2	RT	-	1	34	1	-	-	-	-	-	-
0010	112+00.5	LT	-	-	-	-	-	41	1	1	-	-
0020	112+06.5	LT	-	1	32	1	-	-	-	-	-	-
0010	112+07.1	RT	-	-	-	-	-	25	1	1	-	-
0020	112+09.1	RT	-	1	34	1	-	-	-	-	-	-
0010	112+30.8	LT	-	-	-	-	-	41	1	1	-	-
0020	112+43.8	LT	-	1	32	1	-	-	-	-	-	-
0010	112+91.9	LT	-	-	-	-	-	41	1	1	-	-
0020	112+93.9	LT	-	1	32	1	-	-	-	-	-	-
0010	113+00.6	RT	-	-	-	-	-	25	1	1	-	-
0020	113+07.9	RT	-	1	34	1	-	-	-	-	-	-
0010	113+37.0	LT	-	-	-	-	-	41	1	1	-	-
0020	113+39.0	LT	-	1	32	1	-	-	-	-	-	-
0020	113+71.8	RT	-	1	34	1	-	-	-	-	-	-
0010	113+73.8	RT	-	-	-	-	-	25	1	1	-	-
0010	114+21.6	LT	-	-	-	-	-	43	1	1	-	-
0020	114+24.2	LT	-	1	32	1	-	-	-	-	-	-
0010	114+57.4	RT	-	-	-	-	-	25	1	1	-	-
0020	114+64.3	RT	-	1	34	1	-	-	-	-	-	-
0020	114+84.1	LT	-	1	32	1	-	-	-	-	-	-
0010	114+91.3	LT	-	-	-	-	-	42	1	1	-	-
0010	115+16.6	LT	-	-	-	-	-	42	1	1	-	-
0020	115+24.3	LT	-	1	32	1	-	-	-	-	-	-
0010	115+81.9	RT	-	-	-	-	-	24	1	1	-	-
0010	115+85.0	LT	-	-	-	-	-	42	1	1	-	-
0020	115+85.6	RT	-	1	34	1	-	-	-	-	-	-
0020	115+95.7	LT	-	1	32	1	-	-	-	-	-	-
0010	116+03.7	RT	-	-	-	-	-	24	1	1	-	-
0020	116+23.9	RT	-	1	34	1	-	-	-	-	-	-
0010	116+43.8	LT	-	-	-	-	-	42	1	1	-	-
0020	116+45.8	LT	-	1	32	1	-	-	-	-	-	-
0010	116+65.8	RT	-	-	-	-	-	24	1	1	-	-
0020	116+69.9	RT	-	1	34	1	-	-	-	-	-	-
0010	116+85.4	LT	-	-	-	-	-	42	1	1	-	-
0020	116+87.7	LT	-	1	32	1	-	-	-	-	-	-
0010	117+46.7	LT	-	-	-	-	-	42	1	1	-	-
0020	117+55.8	RT	-	1	34	1	-	-	-	-	-	-
0020	117+57.7	LT	-	1	32	1	-	-	-	-	-	-
0020	117+99.8	LT	-	1	32	1	-	-	-	-	-	-
0010	118+03.4	LT	-	-	-	-	-	42	1	1	-	-
0010	118+55.5	LT	-	-	-	-	-	42	1	1	-	-
0020	118+60.1	LT	-	1	32	1	-	-	-	-	-	-
0010	118+89.0	LT	-	-	-	-	-	42	1	1	-	-
0020	118+92.4	LT	-	1	32	1	-	-	-	-	-	-
0010	119+32.6	LT	-	-	-	-	42	-	1	1	-	-
0020	119+42.2	LT	-	1	32	1	-	-	-	-	-	-
0020	119+60.5	RT	-	1	34	1	-	-	-	-	-	-
0010	119+70.8	RT	-	-	-	-	24	-	1	1	-	-

(CONTINUED ON NEXT SHEET)

PROJECT NO: 6995-04-75

HWY: MADISON STREET

COUNTY: DODGE

MISCELLANEOUS QUANTITIES

SHEET

88

E

SANITARY SEWER LATERALS AND WATER SERVICES (CONTINUED)											
			SPV.0060.26	SPV.0060.27	SPV.0090.02	SPV.0060.28	SPV.0090.01	SPV.0090.09	SPV.0060.29	SPV.0060.30	SPV.0060.31
			SANITARY	SANITARY	SANITARY	SANITARY	HDPE WATER	COPPER WATER	CORPORATION,	WATER	TEMPORARY WATER
			WYE	WYE	LATERAL	LATERAL	SERVICE 1 TO	SERVICE 1 TO	CURB STOP &	SERVICE	SERVICE
			8-INCH MAIN	10-INCH MAIN	6-INCH	RECONNECTION	2-INCH SPECIAL	2-INCH SPECIAL	BOX (SET)	RECONNECTION	PROJECT 6995-04-75
CATEGORY	STATION	LOCATION	EACH	EACH	LF	EACH	LF	LF	EACH	EACH	EACH
0020	119+76.0	RT	-	1	34	1	-	-	-	-	-
0010	120+26.0	RT	-	-	-	-	-	25	1	1	-
0020	120+28.0	RT	-	1	34	1	-	-	-	-	-
0010	120+48.2	RT	-	-	-	-	-	25	1	1	-
0020	120+50.2	RT	-	1	34	1	-	-	-	-	-
0020	121+47.5	RT	-	1	34	1	-	-	-	-	-
0010	121+43.7	RT	-	-	-	-	25	-	1	1	-
0020	122+09.6	RT	-	1	34	1	-	-	-	-	-
0010	122+11.3	RT	-	-	-	-	25	-	1	1	-
0010	122+71.4	RT	-	-	-	-	-	27	1	1	-
0020	122+79.6	RT	-	1	34	1	-	-	-	-	-
0010	123+48.1	RT	-	-	-	-	-	22	1	1	-
0020	123+51.2	RT	1	-	34	1	-	-	-	-	-
UNDISTRIBUTED			-	-	12	-	18	12	-	-	1
TOTAL PROJECT 6995-04-75			1	56	1,900	56	813	1,000	56	56	1

REMOVE EXISTING SANITARY SEWER STRUCTURES						
SPV.0060.05 REMOVE EX. SANITARY MANHOLE						
CATEGORY	STREET	STATION	OFFSET DISTANCE	OFFSET DIRECTION	EACH	COMMENTS
0020	MADISON	102+19.1	0.1'	LT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	105+98.7	0.1'	RT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	108+81.3	2.0'	LT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	109+79.4	0.5'	RT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	112+84.7	1.0'	LT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	115+37.5	1.1'	LT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	118+14.1	0.7'	LT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	120+64.9	0.6'	LT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	123+36.1	0.7'	LT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	123+67.0	35.3'	RT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
0020	MADISON	123+86.0	26.4'	LT	1	SAME TRENCH AS NEW SANITARY/BULKHEAD PIPES OUT OF MANHOLE
TOTAL PROJECT 6995-04-75					11	

SANITARY SEWER STRUCTURES								
SPV.0060.09 SPV.0060.10 SPV.0060.11 SPV.0060.12 SANITARY SANITARY MH SANITARY CONNECT TO EXISTING MANHOLE COVER TYPE J- SEWER SANITARY SEWER (48-INCH) SPECIAL CLEANOUT								
CATEGORY	STREET	STATION	OFFSET DISTANCE	OFFSET DIRECTION	EACH	EACH	EACH	EACH
0020	MADISON	101+80.0	0.1'	LT	-	-	-	1
0020	MADISON	102+18.7	0.0'	-	1	1	-	-
0020	MADISON	105+98.3	68.0'	RT	-	-	-	1
0020	MADISON	105+98.7	1.5'	LT	1	1	-	-
0020	MADISON	108+77.8	1.5'	LT	1	1	-	-
0020	MADISON	109+79.3	1.5'	LT	1	1	-	-
0020	MADISON	109+82.3	27.6'	RT	-	-	-	1
0020	MADISON	113+79.4	1.5'	LT	1	1	-	-
0020	MADISON	117+79.3	1.5'	LT	1	1	-	-
0020	MADISON	120+57.2	1.5'	LT	1	1	-	-
0020	MADISON	123+35.1	1.9'	LT	1	1	-	-
0020	MADISON	123+67.0	35.3'	RT	1	1	-	-
0020	MADISON	123+78.8	48.7'	RT	-	-	-	1
0020	MADISON	123+86.0	26.4'	LT	-	-	2	1
TOTAL PROJECT 6995-04-75					9	9	2	5

SANITARY SEWER PIPE								
					SPV.0090.03	SPV.0090.04	SPV.0090.05	SPV.0060.32
					SANITARY SEWER	SANITARY SEWER	SANITARY SEWER	ABANDON/REMOVE
					PIPE 8-INCH	PIPE 10-INCH	TELEVISIONING	SANITARY SEWER
					SPECIAL	SPECIAL		PROJECT 6995-04-75
CATEGORY	STREET	STATION	TO STATION	LOCATION	LF	LF	LF	EACH
0020	MADISON	101+80.0	102+18.7	LT	-	39	39	-
0020	MADISON	102+18.7	105+98.7	LT	-	380	380	-
0020	MADISON	105+98.7	108+77.8	LT	-	279	279	-
0020	MADISON	105+98.7	105+98.1	RT	70	-	70	-
0020	MADISON	108+77.8	109.79.3	LT	-	102	102	-
0020	MADISON	109+79.3	113+79.4	LT	-	400	400	-
0020	MADISON	109+79.3	109+82.3	RT	29	-	29	-
0020	MADISON	113+79.4	117+79.3	LT	-	400	400	-
0020	MADISON	117+79.3	120+57.2	LT	-	278	278	-
0020	MADISON	120+57.2	123+35.1	LT	-	278	278	-
0020	MADISON	123+35.1	123+67.0	RT	-	49	49	-
0020	MADISON	123+67.0	123+78.8	RT	18	-	18	-
0020		UNDISTRIBUTED			9	14	23	1
TOTAL PROJECT 6995-04-75					126	2,219	2,345	1

SECTION LINE		SECTION CORNER SYMBOL		R/W MONUMENT (TO BE SET)	
QUARTER LINE		SECTION CORNER MONUMENT		NON-MONUMENTED R/W POINT	
SIXTEENTH LINE		GEODETIC SURVEY MONUMENT		FOUND IRON PIN (1-INCH UNLESS NOTED)	
NEW REFERENCE LINE		SIXTEENTH CORNER MONUMENT			
NEW R/W LINE		SIGN		OFF-PREMISE SIGN	
EXISTING R/W OR HE LINE					
PROPERTY LINE					
LOT, TIE & OTHER MINOR LINES					
SLOPE INTERCEPT					
CORPORATE LIMITS					
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)					
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)					
TEMPORARY LIMITED EASEMENT AREA					
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)					
TRANSMISSION STRUCTURES					
BUILDING TO BE REMOVED					
BRIDGE					
CULVERT					

WATER	
GAS	
TELEPHONE	
OVERHEAD TRANSMISSION LINES	
ELECTRIC	
CABLE TELEVISION	
FIBER OPTIC	
SANITARY SEWER	
STORM SEWER	
ELECTRIC TOWER	

NON-COMPENSABLE	COMPENSABLE
POWER POLE	
TELEPHONE POLE	
TELEPHONE PEDESTAL	

SECTION CORNER SYMBOL		R/W MONUMENT (TO BE SET)	
SECTION CORNER MONUMENT		NON-MONUMENTED R/W POINT	
GEODETIC SURVEY MONUMENT		FOUND IRON PIN (1-INCH UNLESS NOTED)	
SIXTEENTH CORNER MONUMENT			
SIGN		OFF-PREMISE SIGN	

ELECTRIC POLE		COMPENSABLE	NON-COMPENSABLE
TELEPHONE POLE			
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)			

ACCESS RESTRICTED BY ACQUISITION	
NO ACCESS (BY STATUTORY AUTHORITY)	
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)	
NO ACCESS (NEW HIGHWAY)	

PARCEL NUMBER		UTILITY NUMBER	
PARALLEL OFFSETS			

CURVE DATA ABBREVIATIONS	
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	{100'}
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DODGE 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 NEW RIGHT-OF-WAY AND PERMANENT EASEMENT MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"x24" REBAR) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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.

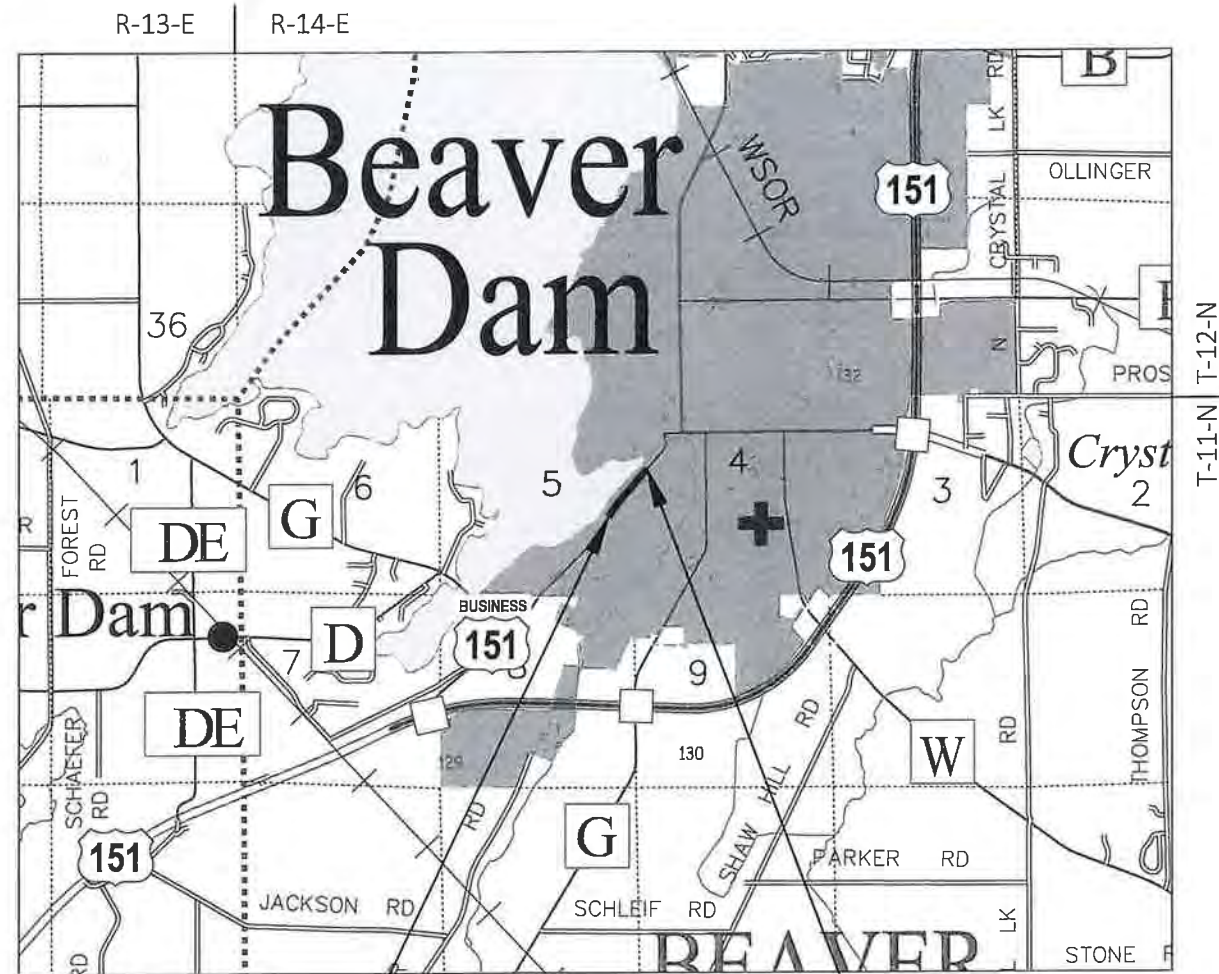
DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) 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 (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE ARE LISTED ON THE DETAIL PAGES.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION. CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.



STA. 101+25.00
Y = 720,596.125
X = 844,767.610

815.71 FEET WEST OF AND
589.48 FEET SOUTH OF THE
EAST QUARTER CORNER OF
SECTION 5, T-11-N, R-14-E,
CITY OF BEAVER DAM,
DODGE COUNTY, WI

STA. 124+50.00
Y = 722,405.299
X = 846,222.734

639.41 FEET EAST OF AND
1219.70 FEET NORTH OF THE
EAST QUARTER CORNER OF
SECTION 5, T-11-N, R-14-E,
CITY OF BEAVER DAM,
DODGE COUNTY, WI

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.440 MI

CONSTRUCTION PROJECT NUMBER 6995-04-74	4.01	7
---	------	---

PLAT OF RIGHT OF WAY REQUIRED FOR
CITY OF BEAVER DAM, MADISON ST.
(CHATHAM ST.- ROWELL ST.)

MADISON ST.

DODGE COUNTY

ORIGINAL PLAT PREPARED BY



1702 Pankratz Street, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664



04/30/2025
(DATE)

Brendy L. Kiehl
(Professional Land Surveyor)



RECEIVED
IN THE OFFICE OF

MAY 08 2025

DODGE COUNTY CLERK

CAUTION:
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS
MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES

CITY OF BEAVER DAM

APPROVED FOR THE CITY

DATE: 5/8/05 [Signature]
(Signature)

FILE NAME : G:\00\00218\00218251\CADD\C3D\69950474\RW\MADISON ST. RW PLAT.DWG

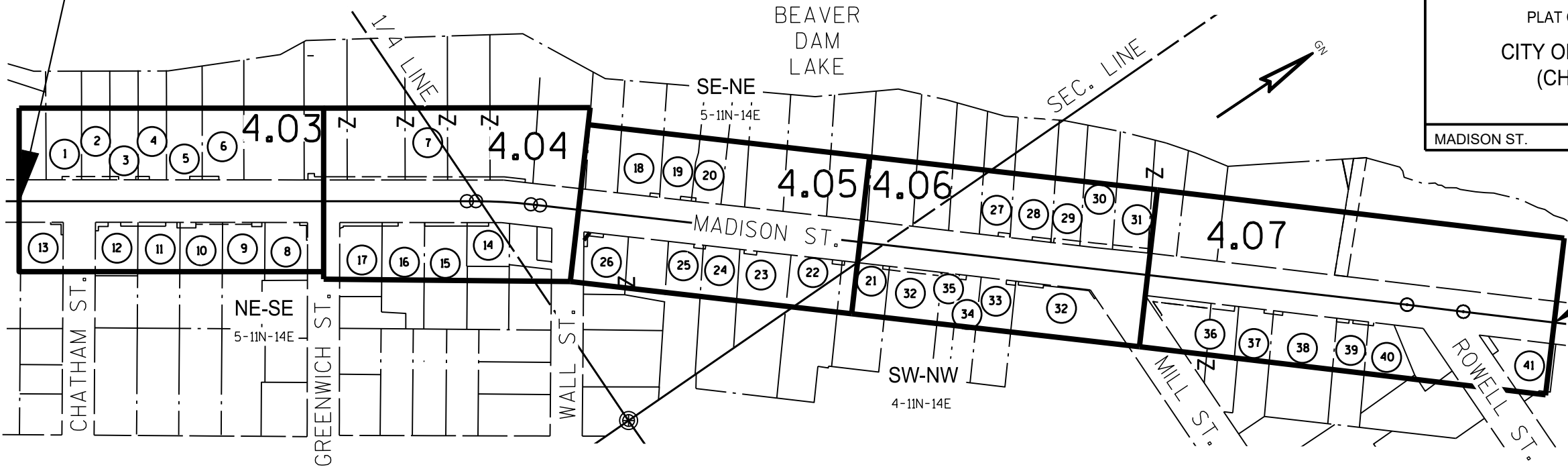
PLOT DATE : 4/30/2025 11:21 AM

PLOT BY : SASHA SCHALLERT

PLOT NAME :

BEGIN PROJECT
STA 101+25.00
Y=720,596.125
X=844,767.610

R/W PROJECT NUMBER 6995-04-04	SHEET NUMBER	TOTAL SHEETS
CONSTRUCTION PROJECT NUMBER 6995-04-74	4.02	7
PLAT OF RIGHT OF WAY REQUIRED FOR CITY OF BEAVER DAM, MADISON ST. (CHATHAM ST.- ROWELL ST.)		
MADISON ST.	DODGE COUNTY	



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 INTERESTS TO THE CITY.					
PARCEL NUMBER	OWNER(S)	R/W SHEET NUMBER	INTEREST REQUIRED	R/W SQ. FT. REQUIRED			TLE SQ. FT.	PLE SQ. FT.
				NEW	EXISTING	TOTAL		
1	ROBERT W. RABEHL & JUDITH L. RABEHL, HUSBAND AND WIFE AS SURVIVORSHIP MARTIAL PROPERTY	4.03	TLE	--	--	--	151	--
2	CHARLES W. KRAMER, A SINGLE PERSON	4.03	TLE	--	--	--	221	--
3	JAMES E. FEIL, AN UNMARRIED MAN	4.03	TLE	--	--	--	89	--
4	DREAM FLIPS REAL ESTATE COMPANY LLC	4.03	TLE	--	--	--	90	--
5	JAMES S. MAGNUSON AND ERKENTRAUD C. MAGNUSON, HUSBAND AND WIFE	4.03	TLE	--	--	--	107	--
6	MARY PINTARRO	4.03	TLE	--	--	--	142	--
7	VIRGINIA TRIMBLE, ASHLEY TRIMBLE, MARY ANDREWS, JASON TRIMBLE AND TERRY TRIMBLE AS VENDOR, AND DAVID HANSEN & DANI HANSEN, HUSBAND AND WIFE AS PURCHASER	4.03, 4.04	TLE	--	--	--	1644	--
8	ROBERT G. KUCHARSKI	4.03	TLE	--	--	--	84	--
9	JASON M. MILLIES	4.03	TLE	--	--	--	238	--
10	BRIAN WRIGHT & MICHELLE WRIGHT, HUSBAND AND WIFE AS SURVIVORSHIP MARTIAL PROPERTY	4.03	TLE	--	--	--	333	--
11	ROBERT JENS & ELIZABETH JENS, HUSBAND AND WIFE	4.03	TLE	--	--	--	301	--
12	DAVID L. ROBERTS & BARBARA J. ROBERTS REVOCABLE TRUST DATED JANUARY 5, 2021	4.03	TLE	--	--	--	318	--
13	MATTHEW T. BUCHDA, A MARRIED PERSON	4.03	TLE	--	--	--	104	--
14	BEAVER DAM HOMES, LLC	4.04	TLE	--	--	--	181	--
15	SCOTT M. CHIPMAN & LINDA J. CHIPMAN, HUSBAND AND WIFE, AS SURVIVORSHIP MARTIAL PROPERTY	4.04	TLE	--	--	--	358	--
16	DONAVON L. BECKROW & MARIAH N. BECKROW, HUSBAND AND WIFE	4.04	TLE	--	--	--	136	--
17	JOHN HAMMEN	4.04	TLE	--	--	--	383	--
18	CLOSTERBUR, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	4.05	TLE	--	--	--	74	--
19	AYLAH VAUGHN HOMES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	4.05	TLE	--	--	--	94	--
20	CAROLE GARCZYNSKI	4.05	TLE	--	--	--	37	--
21	CHILI OMELETTE LLC, A WISCONSIN LIMITED LIABILITY COMPANY	4.05, 4.06	TLE	--	--	--	80	--
22	SHIRLEY EVERSON	4.05	TLE	--	--	--	99	--
23	BEAVER DAM INVESTMENTS 9, LLC	4.05	TLE	--	--	--	117	--

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 INTERESTS TO THE CITY.					
PARCEL NUMBER	OWNER(S)	R/W SHEET NUMBER	INTEREST REQUIRED	R/W SQ. FT. REQUIRED			TLE SQ. FT.	PLE SQ. FT.
				NEW	EXISTING	TOTAL		
24	RYAN R. CALLIES & JOANNE M. CALLIES, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	4.05	TLE	--	--	--	19	--
25	CHRISTOPHER MALAK	4.05	TLE	--	--	--	80	--
26	DOROTHY J. KUMBA REVOCABLE LIVING TRUST DATED DECEMBER 03, 2020, AND ANY AMENDMENTS THERETO	4.03	FEE/TLE	60	--	60	199	--
27	ABEE XIONG AND NENA YANG-XIONG	4.06	TLE	--	--	--	115	--
28	ROGER E. LELAND & RHONDA R. LELAND, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	4.06	TLE	--	--	--	162	--
29	KRISTEN EVERT	4.06	TLE	--	--	--	285	--
30	SHAWN E. WEBER	4.06	TLE	--	--	--	357	--
31	ZELLMER FAMILY TRUST	4.06	TLE	--	--	--	409	--
32	DONE RIGHT RENTALS, LLC	4.06	TLE	--	--	--	809	--
33	ROBERT A HUFFMAN & PATRICIA B. HUFFMAN, HUSBAND AND WIFE	4.06	TLE	--	--	--	95	--
34	RACHEL R. DYKSTRA	4.06	TLE	--	--	--	84	--
35	JOSEPH LUCAFO	4.06	TLE	--	--	--	69	--
36	ZELLMER FAMILY TRUST	4.07	TLE	--	--	--	1215	--
37	DONALD E. WOODS	4.07	TLE	--	--	--	80	--
38	ZELLMER FAMILY TRUST	4.07	TLE	--	--	--	79	--
39	SPRINGS HOMES LLC, A WISCONSIN LIMITED LIABILITY COMPANY	4.07	TLE	--	--	--	239	--
40	BEAVER DAM HOMES, LLC	4.07	TLE	--	--	--	45	--
41	PULICE LLC, A WISCONSIN LIMITED LIABILITY COMPANY	4.07	TLE	--	--	--	349	--
42	SHATTERED GLASS BREWERY LLC, A WISCONSIN LIMITED LIABILITY COMPANY	4.07	PLE	--	--	--	--	419

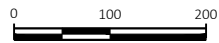
UTILITY INTERESTS REQUIRED				
UTILITY NUMBER	OWNER(S)	PARCEL AFFECTED	INTEREST REQUIRED	EASEMENT AFFECTING
80	CHARTER COMMUNICATIONS	41	RELEASE OF RIGHTS	NO EASEMENT OF RECORD

REVISION DATE			
04/30/25			

DATE 09/27/2024

GRID FACTOR

SCALE, FEET



HWY: MADISON ST.

COUNTY: DODGE

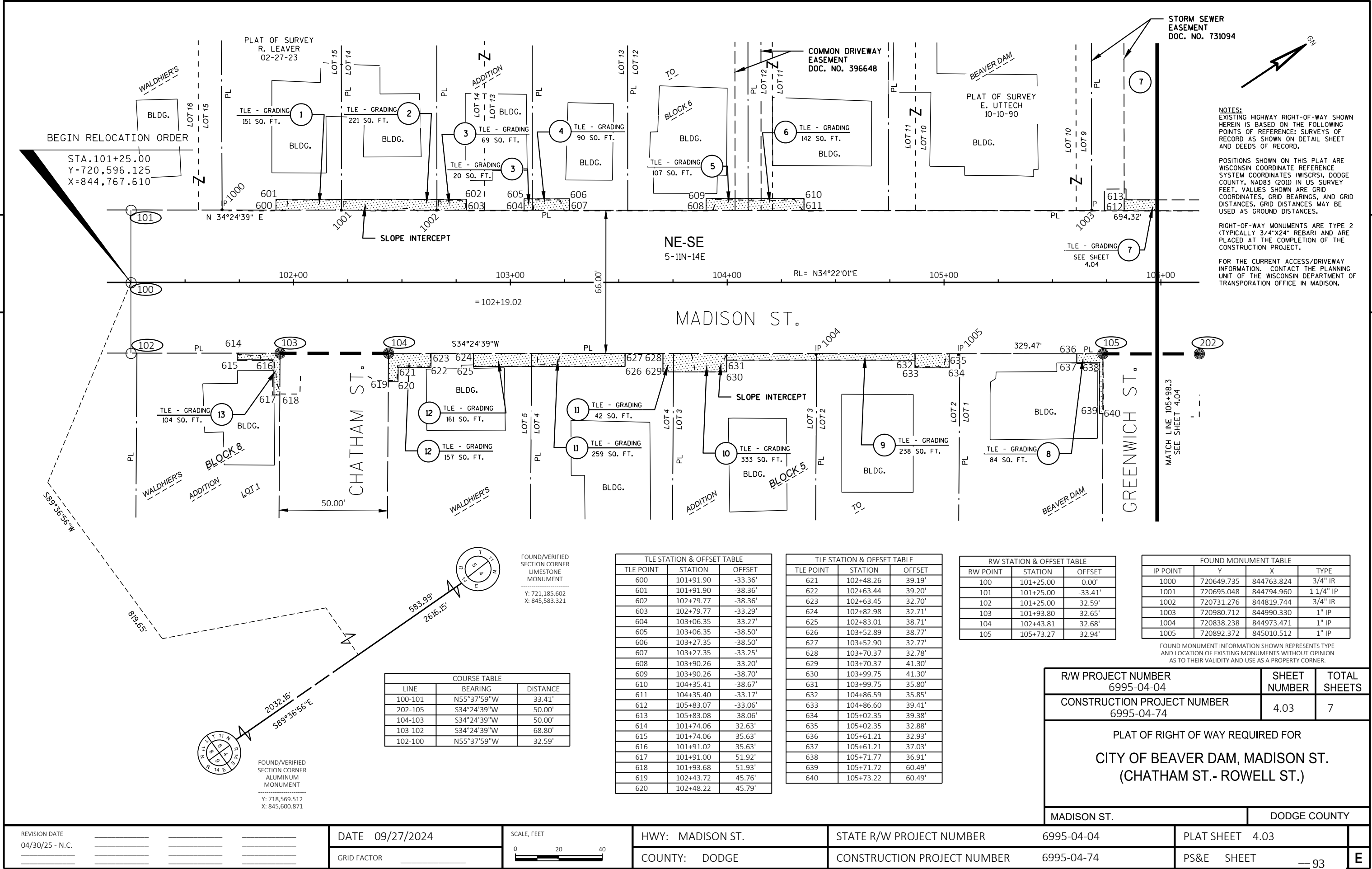
STATE R/W PROJECT NUMBER 6995-04-04

CONSTRUCTION PROJECT NUMBER 6995-04-74

PLAT SHEET 4.02

PS&E SHEET 92

E



STORM SEWER
EASEMENT
DOC. NO. 731094

NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN
HEREIN IS BASED ON THE FOLLOWING
POINTS OF REFERENCE: SURVEYS OF
RECORD AS SHOWN ON DETAIL SHEET
AND DEEDS OF RECORD.

POSITIONS SHOWN ON THIS PLAT ARE
WISCONSIN COORDINATE REFERENCE
SYSTEM COORDINATES (WISCRS), DODGE
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.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2
(TYPICALLY 3/4"x24" REBAR) AND ARE
PLACED AT THE COMPLETION OF THE
CONSTRUCTION PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY
INFORMATION, CONTACT THE PLANNING
UNIT OF THE WISCONSIN DEPARTMENT OF
TRANSPORTATION OFFICE IN MADISON.

FOUND/VERIFIED
SECTION CORNER
LIMESTONE
MONUMENT

Y: 721,185.602
X: 845,583.321

FOUND/VERIFIED
SECTION CORNER
ALUMINUM
MONUMENT

Y: 718,569.512
X: 845,600.871

COURSE TABLE		
LINE	BEARING	DISTANCE
100-101	N55°37'59"W	33.41'
202-105	S34°24'39"W	50.00'
104-103	S34°24'39"W	50.00'
103-102	S34°24'39"W	68.80'
102-100	N55°37'59"W	32.59'

TLE STATION & OFFSET TABLE		
TLE POINT	STATION	OFFSET
600	101+91.90	-33.36'
601	101+91.90	-38.36'
602	102+79.77	-38.36'
603	102+79.77	-33.29'
604	103+06.35	-33.27'
605	103+06.35	-38.50'
606	103+27.35	-38.50'
607	103+27.35	-33.25'
608	103+90.26	-33.20'
609	103+90.26	-38.70'
610	104+35.41	-38.67'
611	104+35.40	-33.17'
612	105+83.07	-33.06'
613	105+83.08	-38.06'
614	101+74.06	32.63'
615	101+74.06	35.63'
616	101+91.02	35.63'
617	101+91.00	51.92'
618	101+93.68	51.93'
619	102+43.72	45.76'
620	102+48.22	45.79'

TLE STATION & OFFSET TABLE		
TLE POINT	STATION	OFFSET
621	102+48.26	39.19'
622	102+63.44	39.20'
623	102+63.45	32.70'
624	102+82.98	32.71'
625	102+83.01	38.71'
626	103+52.89	38.77'
627	103+52.90	32.77'
628	103+70.37	32.78'
629	103+70.37	41.30'
630	103+99.75	41.30'
631	103+99.75	35.80'
632	104+86.59	35.85'
633	104+86.60	39.41'
634	105+02.35	39.38'
635	105+02.35	32.88'
636	105+61.21	32.93'
637	105+61.21	37.03'
638	105+71.77	36.91'
639	105+71.72	60.49'
640	105+73.22	60.49'

RW STATION & OFFSET TABLE		
RW POINT	STATION	OFFSET
100	101+25.00	0.00'
101	101+25.00	-33.41'
102	101+25.00	32.59'
103	101+93.80	32.65'
104	102+43.81	32.68'
105	105+73.27	32.94'

FOUND MONUMENT TABLE			
IP POINT	Y	X	TYPE
1000	720649.735	844763.824	3/4" IR
1001	720695.048	844794.960	1 1/4" IP
1002	720731.276	844819.744	3/4" IR
1003	720980.712	844990.330	1" IP
1004	720838.238	844973.471	1" IP
1005	720892.372	845010.512	1" IP

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE
AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION
AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

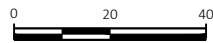
R/W PROJECT NUMBER 6995-04-04	SHEET NUMBER	TOTAL SHEETS
CONSTRUCTION PROJECT NUMBER 6995-04-74	4.03	7
PLAT OF RIGHT OF WAY REQUIRED FOR CITY OF BEAVER DAM, MADISON ST. (CHATHAM ST.- ROWELL ST.)		
MADISON ST.	DODGE COUNTY	

REVISION DATE				
04/30/25 - N.C.				

DATE 09/27/2024

GRID FACTOR

SCALE, FEET



HWY: MADISON ST.

COUNTY: DODGE

STATE R/W PROJECT NUMBER

6995-04-04

CONSTRUCTION PROJECT NUMBER

6995-04-74

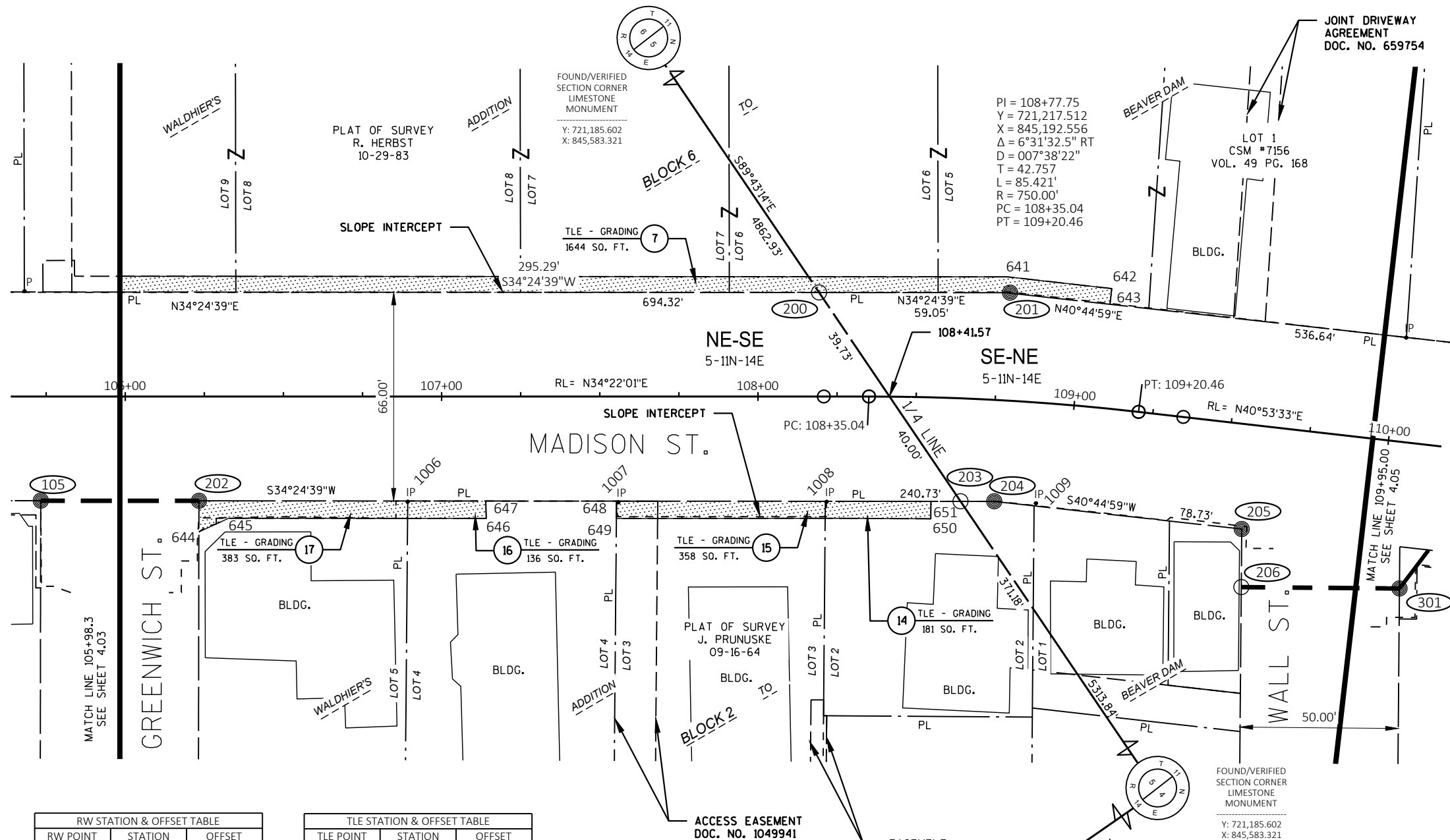
PLAT SHEET

4.03

PS&E SHEET

— 93

E



NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN
HEREIN IS BASED ON THE FOLLOWING
POINTS OF REFERENCE: SURVEYS OF
RECORD AS SHOWN ON DETAIL SHEET AND
DEEDS OF RECORD.

POSITIONS SHOWN ON THIS PLAT ARE
WISCONSIN COORDINATE REFERENCE
SYSTEM COORDINATES (WISCRS), DODGE
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.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2
(TYPICALLY 3/4"x24" REBAR) AND ARE
PLACED AT THE COMPLETION OF THE
CONSTRUCTION PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY
INFORMATION, CONTACT THE PLANNING
UNIT OF THE WISCONSIN DEPARTMENT OF
TRANSPORTATION OFFICE IN MADISON.

RW STATION & OFFSET TABLE		
RW POINT	STATION	OFFSET
200	108+19.32	-32.88
201	108+76.51	-34.03'
202	106+23.27	32.98'
203	108+65.33	32.58'
204	108+76.46	32.07'
205	109+57.09	33.11'
206	109+59.03	51.38'

TLE STATION & OFFSET TABLE		
TLE POINT	STATION	OFFSET
641	108+76.83	-39.05'
642	109+08.26	-37.87'
643	109+08.18	-32.87'
644	106+23.26	42.82'
645	106+32.66	38.48'
646	107+14.07	38.55'
647	107+13.97	33.05'
648	107+55.28	33.08'
649	107+55.23	38.58'
650	108+55.69	38.38'
651	108+55.56	32.88'

FOUND MONUMENT TABLE			
IP POINT	Y	X	TYPE
1006	721043.102	845113.621	1" IP
1007	721097.954	845151.358	1" IP
1008	721152.418	845188.397	1" IP
1009	721206.775	845226.024	1" IP

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE
AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION
AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

COURSE TABLE		
LINE	BEARING	DISTANCE
301-206	S34°51'09"W	50.00'
206-205	N55°08'51"W	18.37'
204-203	S34°24'39"W	10.66'
203-200	N89°43'14"W	79.73'
202-105	S34°24'39"W	50.00'
203-E 1/4	S89°43'14"E	371.18'
200-W 1/4	N89°43'14"W	4862.93'

FOUND/VERIFIED
SECTION CORNER
ALUMINUM
MONUMENT
Y: 718,569.512
X: 845,600.871

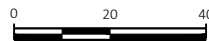
R/W PROJECT NUMBER 6995-04-04	SHEET NUMBER	TOTAL SHEETS
CONSTRUCTION PROJECT NUMBER 6995-04-74	4.04	7
PLAT OF RIGHT OF WAY REQUIRED FOR CITY OF BEAVER DAM, MADISON ST. (CHATHAM ST.- ROWELL ST.)		
MADISON ST.	DODGE COUNTY	

REVISION DATE			
04/30/25 - N.C.			

DATE 09/27/2024

GRID FACTOR

SCALE, FEET



HWY: MADISON ST.

COUNTY: DODGE

STATE R/W PROJECT NUMBER

6995-04-04

PLAT SHEET

4.04

CONSTRUCTION PROJECT NUMBER

6995-04-74

PS&E SHEET

94

E

TLE STATION & OFFSET TABLE		
TLE POINT	STATION	OFFSET
652	111+02.76	-33.25'
653	111+02.75	-35.85'
654	111+05.65	-35.85'
655	111+05.64	-38.75'
656	111+17.67	-38.79'
657	111+17.93	-33.29'
658	111+50.38	-33.37'
659	111+50.38	-38.87'
660	111+74.38	-38.88'
661	111+74.38	-33.43'
662	110+09.76	55.69'
663	110+15.23	55.11'
664	110+13.46	38.34'
665	110+38.02	38.41'

TLE STATION & OFFSET TABLE		
TLE POINT	STATION	OFFSET
666	110+38.01	32.91'
667	111+79.65	32.56'
668	111+79.66	38.06'
669	111+97.66	38.01'
670	111+97.64	32.51'
671	112+58.14	32.36'
672	112+58.16	38.18'
673	112+77.92	38.31'
674	112+77.92	32.31'
675	113+96.09	32.02'
676	113+96.10	38.54'
677	114+15.10	38.49'
678	114+15.12	31.99'

RW STATION & OFFSET TABLE		
RW POINT	STATION	OFFSET
300	114+11.19	-34.02'
301	110+08.75	46.12'
302	110+16.54	32.96'
303	114+11.18	31.98'
304	114+34.85	32.05'

COURSE TABLE		
LINE	BEARING	DISTANCE
304-303	S41°03'14"W	23.68'
302-301	S18°27'46"E	15.29'
301-206	S34°51'09"W	50.00'

FOUND MONUMENT TABLE			
IP POINT	Y	X	TYPE
1010	721333.033	845248.943	1" IP
1011	721521.193	845412.167	1" IP
1012	721566.565	845451.178	1" IP
1013	721618.106	845495.545	1" IP
1014	721479.895	845461.838	SQUARE IR
1015	721539.878	845513.828	3/4" IR
303	721599.850	845565.966	IP IN CONC.

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

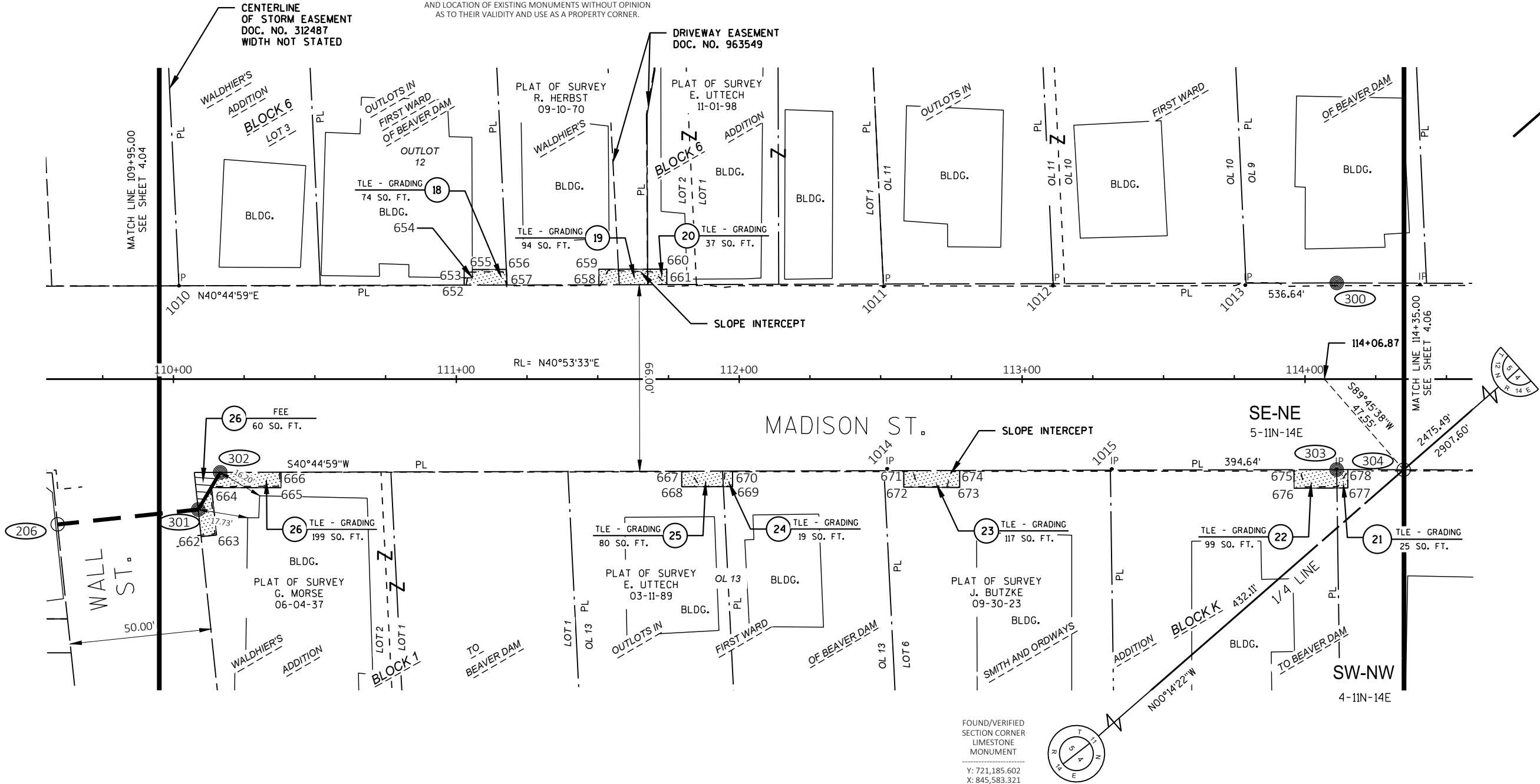
NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: SURVEYS OF RECORD AS SHOWN ON DETAIL SHEET AND DEEDS OF RECORD.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DODGE 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.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4"X24" REBAR) AND ARE PLACED AT THE COMPLETION OF THE CONSTRUCTION PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

R/W PROJECT NUMBER 6995-04-04	SHEET NUMBER 4.05	TOTAL SHEETS 7
CONSTRUCTION PROJECT NUMBER 6995-04-74		
PLAT OF RIGHT OF WAY REQUIRED FOR CITY OF BEAVER DAM, MADISON ST. (CHATHAM ST.- ROWELL ST.)		
MADISON ST.	DODGE COUNTY	

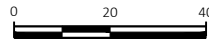


REVISION DATE			
04/30/25 - N.C.			

DATE 09/27/2024

GRID FACTOR

SCALE, FEET



HWY: MADISON ST.

COUNTY: DODGE

STATE R/W PROJECT NUMBER 6995-04-04

CONSTRUCTION PROJECT NUMBER 6995-04-74

PLAT SHEET 4.05

PS&E SHEET

95

E

TLE STATION & OFFSET TABLE		
TLE POINT	STATION	OFFSET
679	116+47.38	-33.36'
680	116+47.38	-39.50'
681	116+65.92	-39.50'
682	116+66.21	-33.30'
683	117+00.62	-33.21'
684	117+00.63	-38.71'
685	117+30.03	-38.62'
686	117+30.29	-33.12'
687	117+34.46	-33.11'
688	117+34.43	-40.11'
689	118+84.90	-40.99'
690	118+84.93	-33.99'
691	114+75.18	32.16'
692	114+75.16	37.66'
693	115+65.84	37.92'
694	115+65.86	32.42'

TLE STATION & OFFSET TABLE		
TLE POINT	STATION	OFFSET
695	115+84.76	32.47'
696	115+84.65	39.47'
697	116+03.71	39.52'
698	116+03.65	32.52'
699	116+68.33	32.70'
700	116+68.31	39.20'
701	116+83.02	39.24'
702	116+82.95	32.74'
703	116+87.26	32.76'
704	116+87.24	38.26'
705	117+26.24	38.37'
706	117+26.25	34.54'
707	117+97.37	34.57'
708	118+07.14	45.99'
709	118+09.03	44.35'

FOUND MONUMENT TABLE			
IP POINT	Y	X	TYPE
1017	721664.906	845535.788	1" IP
1018	721710.719	845575.549	1" IP
1019	721883.006	845725.214	3/4" IR
1020	721661.030	845619.207	IP IN CONC.
1021	721717.614	845668.743	BRASS MON. IN CONC.
1022	721804.856	845744.513	BRASS MON. IN CONC.

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

RW STATION & OFFSET TABLE		
RW POINT	STATION	OFFSET
400	115+10.18	-33.74'
401	117+99.57	-32.93'
402	118+81.41	-34.00'
403	117+99.38	33.07'
404	118+85.32	32.02'

NOTES:
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: SURVEYS OF RECORD AS SHOWN ON DETAIL SHEET AND DEEDS OF RECORD.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DODGE 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.

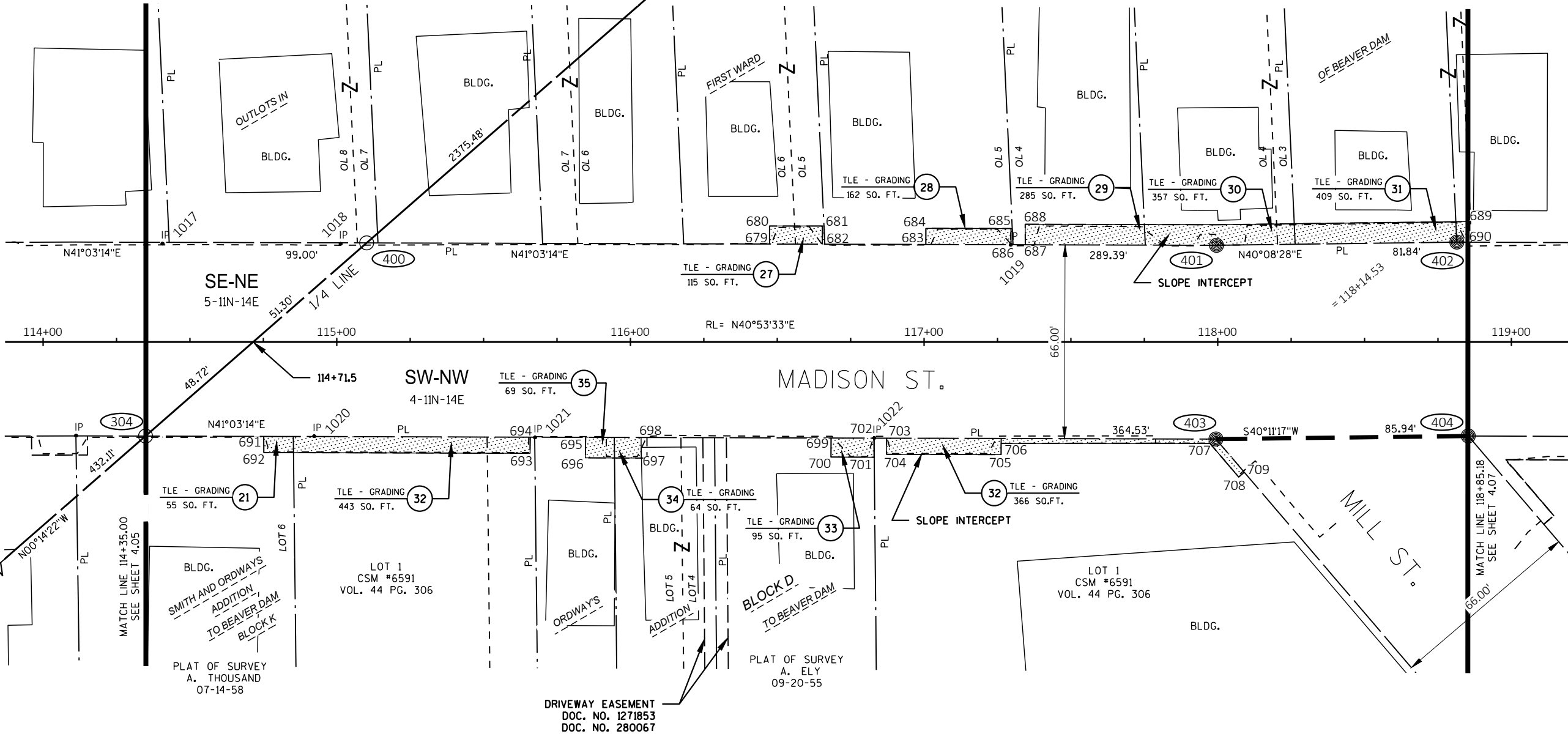
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICALLY 3/4"x24" REBAR) AND ARE PLACED AT THE COMPLETION OF THE CONSTRUCTION PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

VERIFIED SECTION CORNER CALCULATED FROM FOUND TIES

Y: 724,093.182
X: 845,571.171

R/W PROJECT NUMBER 6995-04-04	SHEET NUMBER 4.06	TOTAL SHEETS 7
CONSTRUCTION PROJECT NUMBER 6995-04-74		
PLAT OF RIGHT OF WAY REQUIRED FOR CITY OF BEAVER DAM, MADISON ST. (CHATHAM ST.- ROWELL ST.)		
MADISON ST.	DODGE COUNTY	

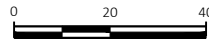


REVISION DATE			
04/30/25 - N.C.			

DATE 09/27/2024

GRID FACTOR

SCALE, FEET



HWY: MADISON ST.

COUNTY: DODGE

STATE R/W PROJECT NUMBER

6995-04-04

CONSTRUCTION PROJECT NUMBER

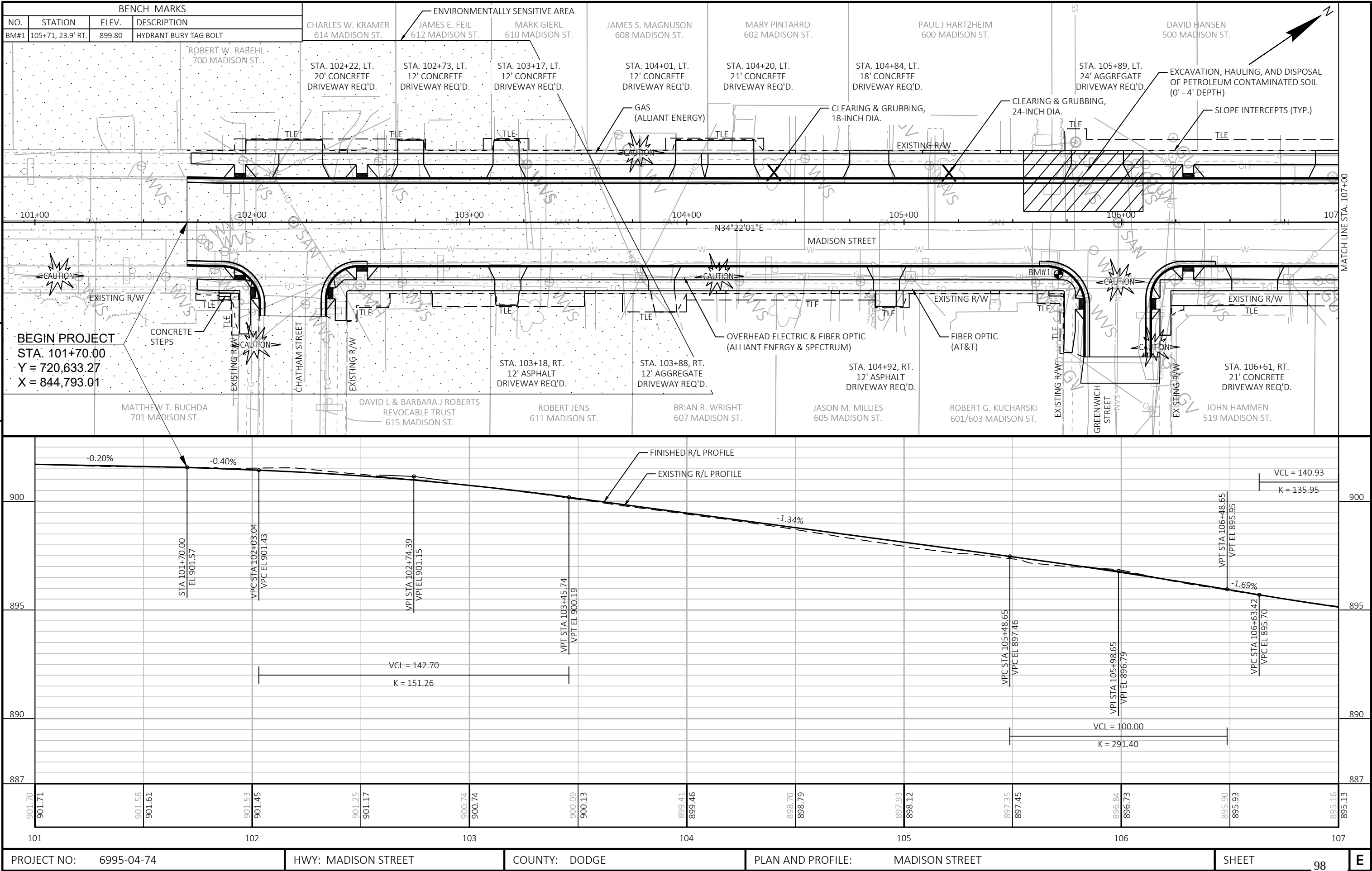
6995-04-74

PLAT SHEET 4.06

PS&E SHEET

96

E



FINISHED R/L PROFILE

EXISTING R/L PROFILE

-0.20%

-0.40%

-1.34%

-1.69%

VCL = 142.70
K = 151.26

VCL = 100.00
K = 291.40

VCL = 140.93
K = 135.95

STA 101+70.00
EL 901.57

VPC STA 102+03.04
VPEL 901.43

VPI STA 102+74.39
VPIEL 901.15

VPT STA 103+45.74
VPT EL 900.19

VPC STA 105+48.65
VPC EL 897.46

VPI STA 105+98.65
VPIEL 896.79

VPT STA 106+48.65
VPT EL 895.95

VPC STA 106+63.42
VPC EL 895.70

901.71

901.58

901.61

901.53

901.45

901.25

901.17

900.74

900.74

900.09

900.13

899.41

899.46

898.70

898.79

897.93

898.12

897.35

897.45

896.84

896.73

895.90

895.93

895.16

895.13

101

102

103

104

105

106

107

PROJECT NO: 6995-04-74

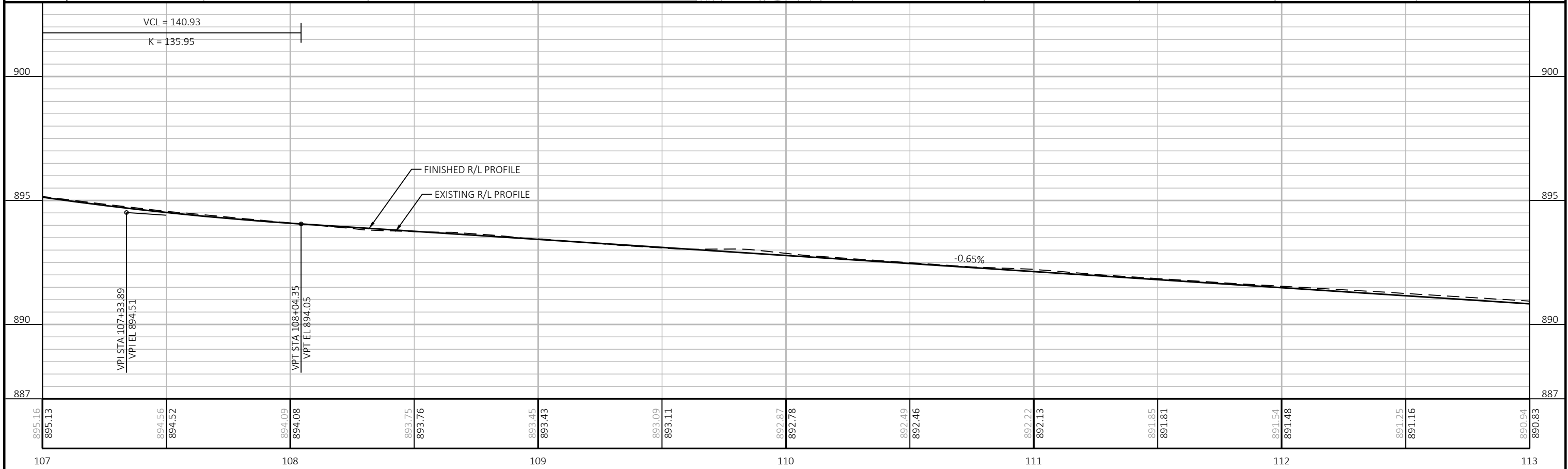
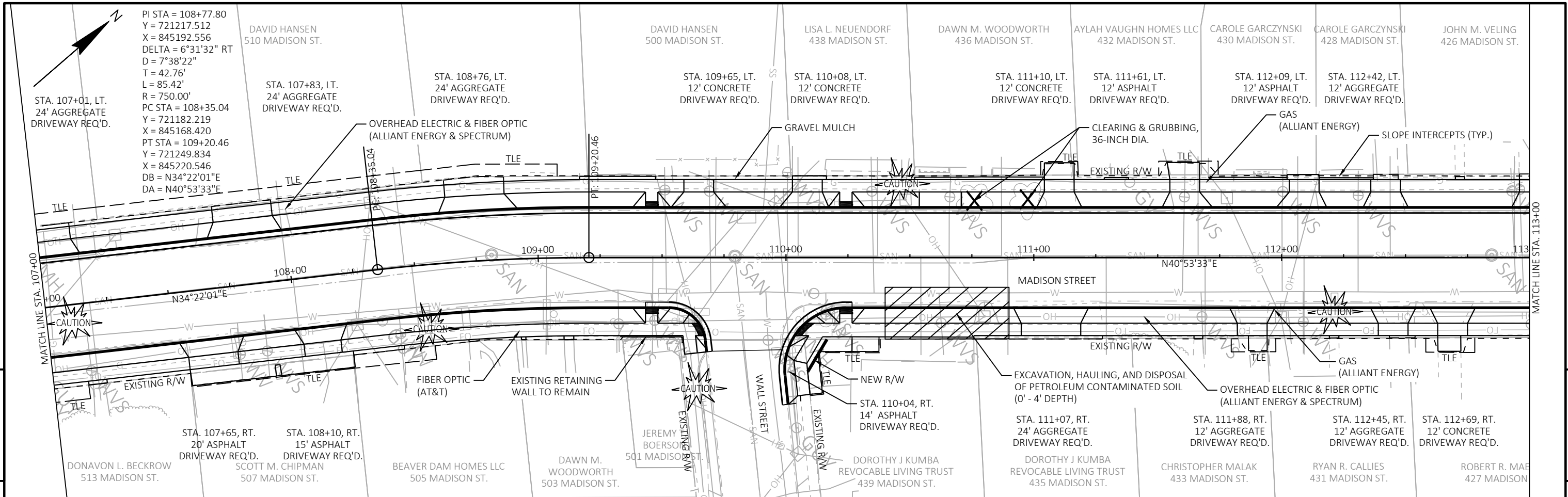
HWY: MADISON STREET

COUNTY: DODGE

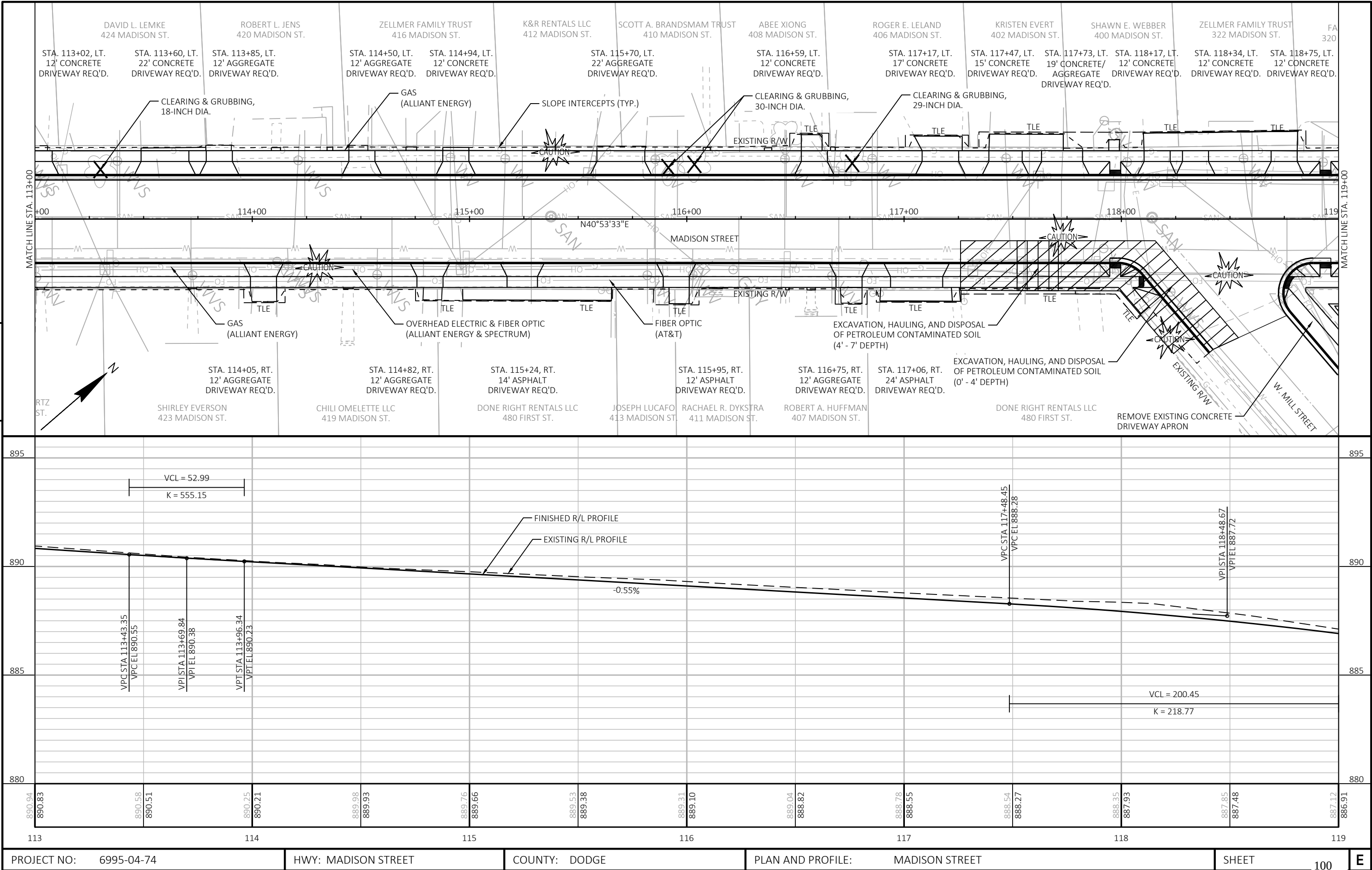
PLAN AND PROFILE: MADISON STREET

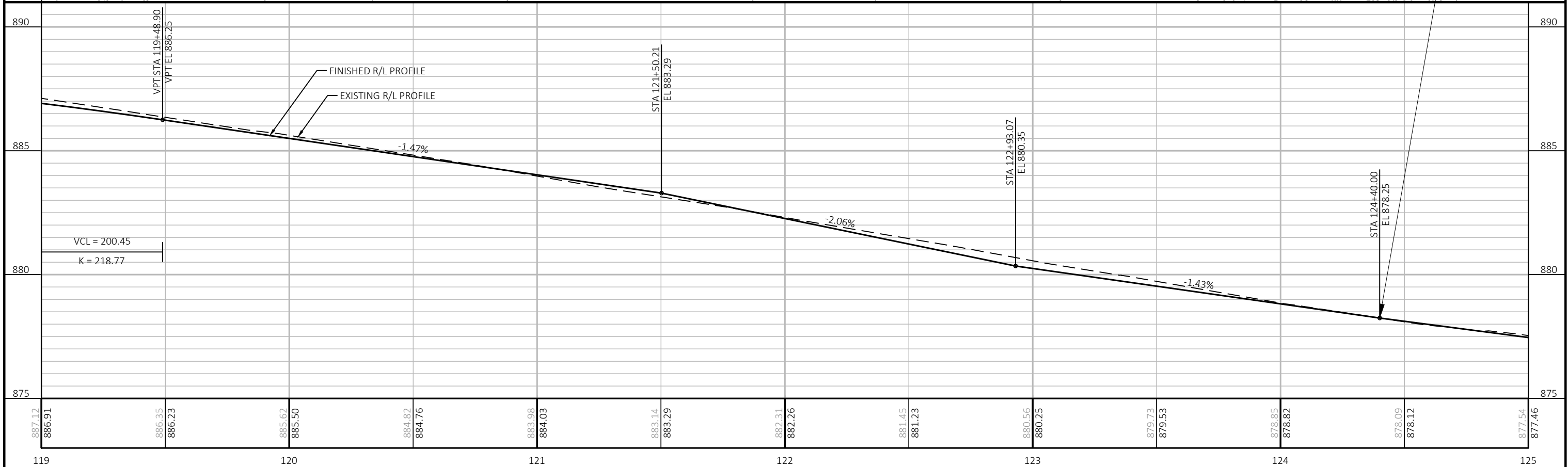
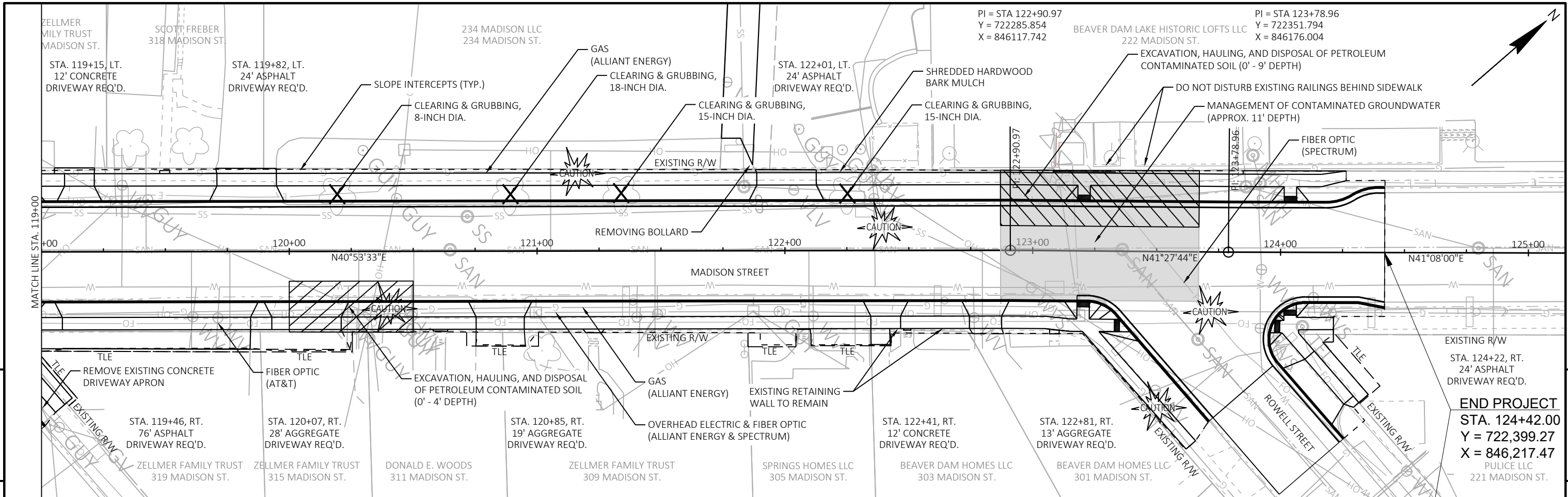
SHEET 98

E



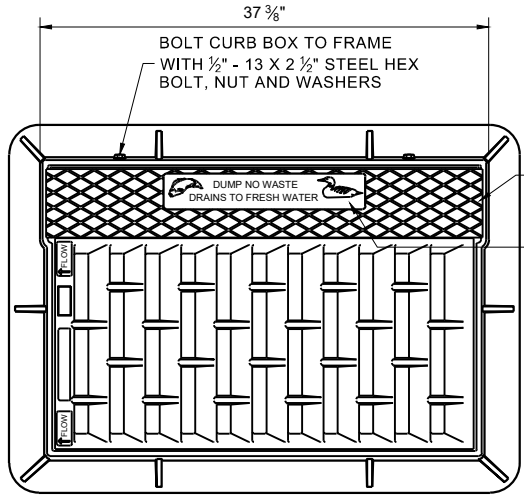
PROJECT NO:	6995-04-74	HWY: MADISON STREET	COUNTY: DODGE	PLAN AND PROFILE: MADISON STREET	SHEET 99	E
-------------	------------	---------------------	---------------	----------------------------------	----------	---





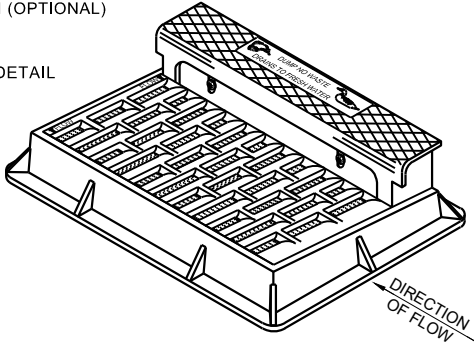
Standard Detail Drawing List

08A05-21A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-21E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21A	CURB RAMPS TYPES 1 AND 1-A
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21C	CURB RAMPS TYPES 4A AND 4A1
08D05-21D	CURB RAMPS TYPE 4B AND 4B1
08D05-21E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-04	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-11	URBAN DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-16E	PAVEMENT MARKING FOR BIKE LANES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-10A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

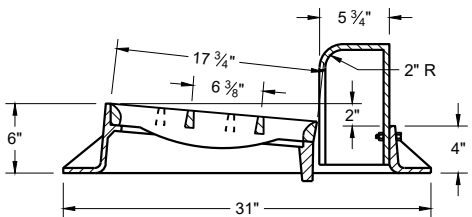
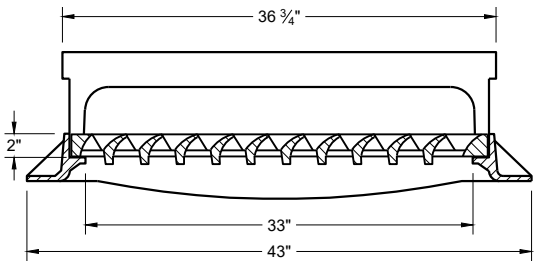
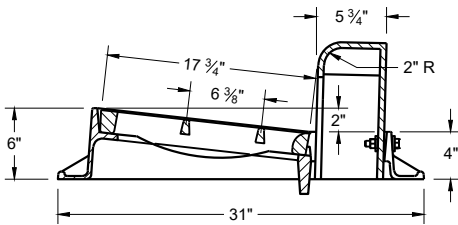
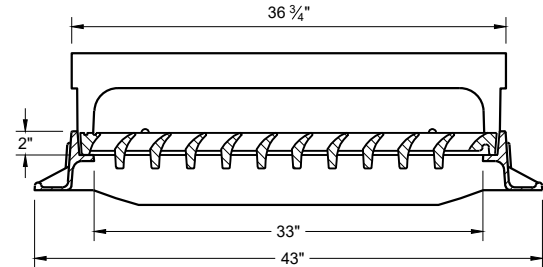
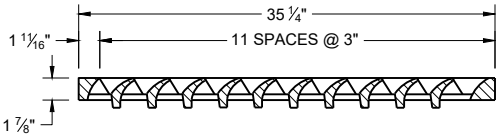


NOTE: EITHER CASTING IS ACCEPTABLE

TYPE "C" CHECKERED TOP DESIGN (OPTIONAL)
SEE LOGO DETAIL

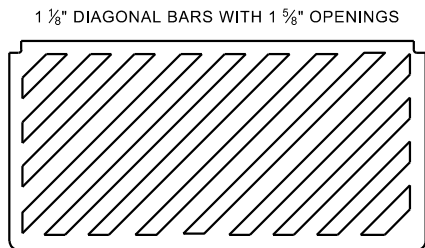


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

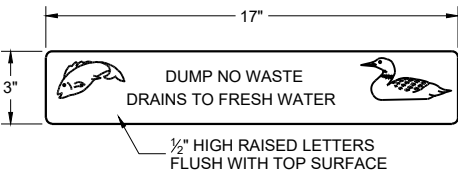


TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE



SPECIAL GRATE FOR TYPE "H" COVER
(MEASURES 35" X 17 3/4" X 2")
(NOTED AS TYPE H-S ON DRAINAGE TABLE)



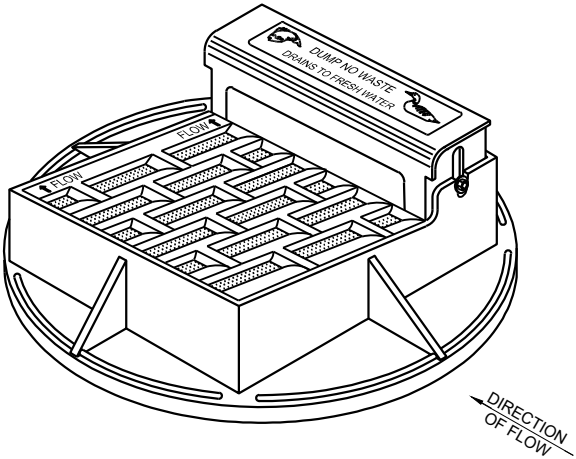
LOGO DETAIL

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.

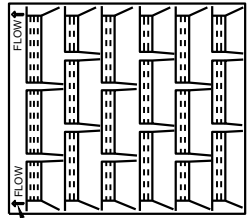
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

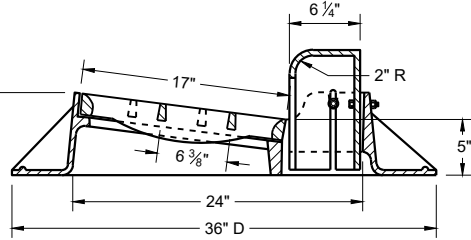
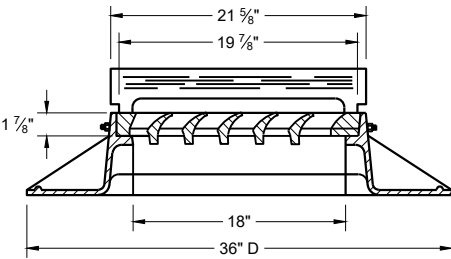
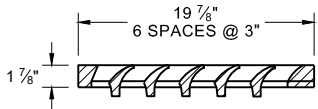


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

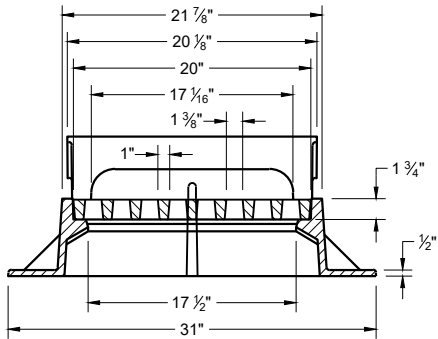
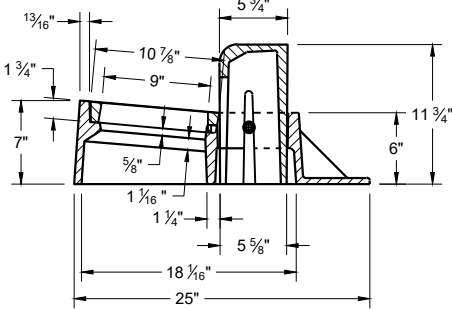
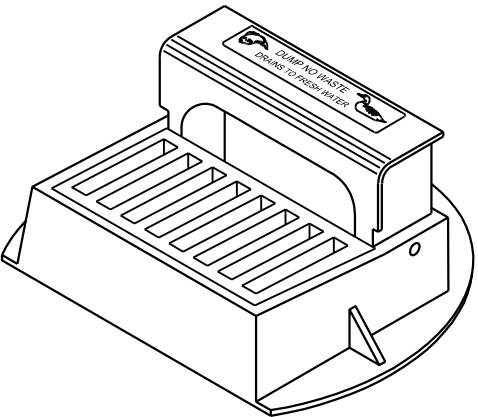
NOTE: EITHER CASTING IS ACCEPTABLE



DIRECTION OF FLOW ARROWS



TYPE "A"



TYPE "Z"

INLET COVERS
TYPES A, H, A-S, H-S AND Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

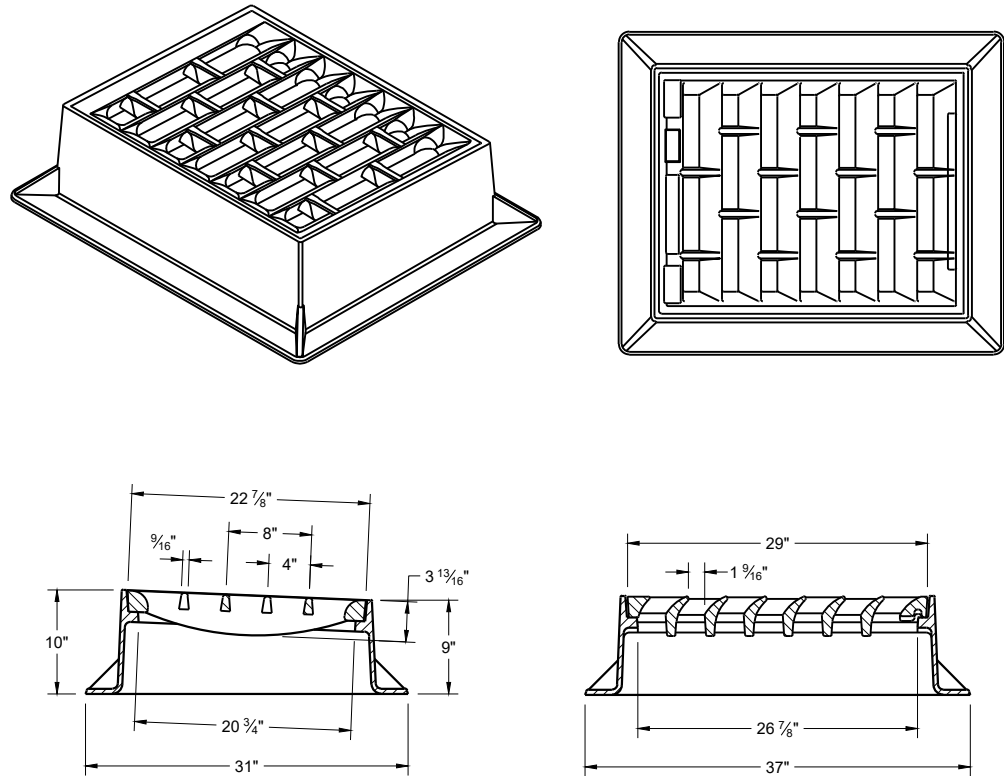
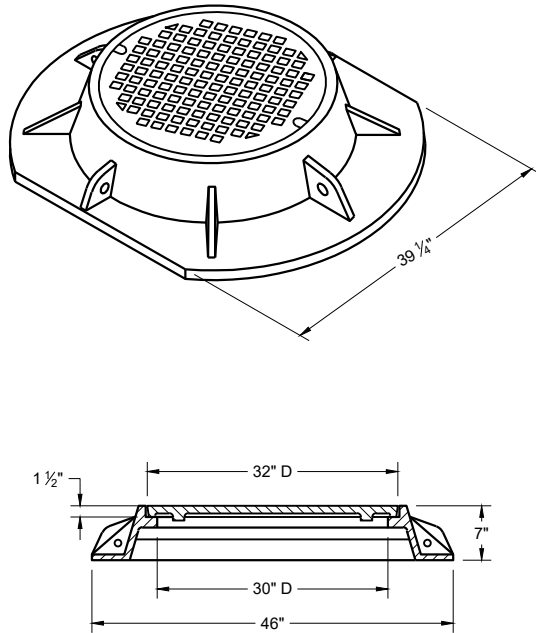
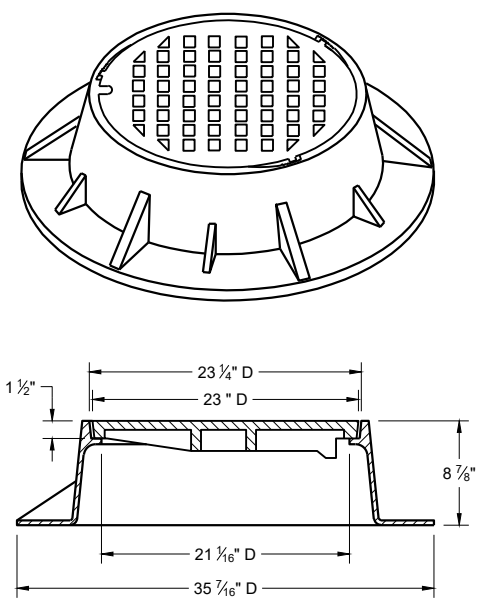
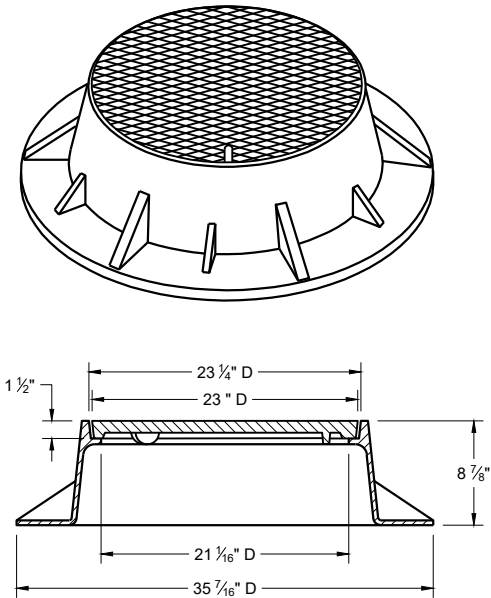
APPROVED
December 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR

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.

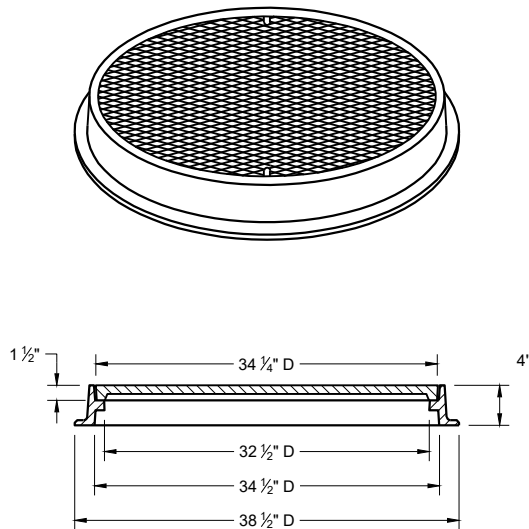
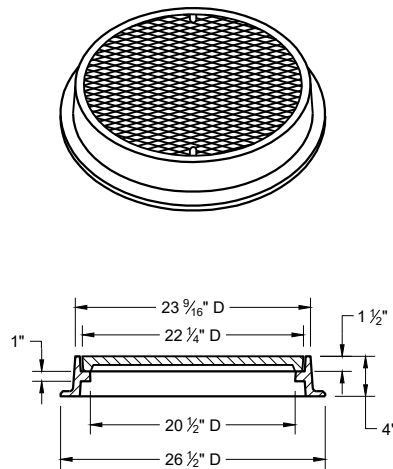
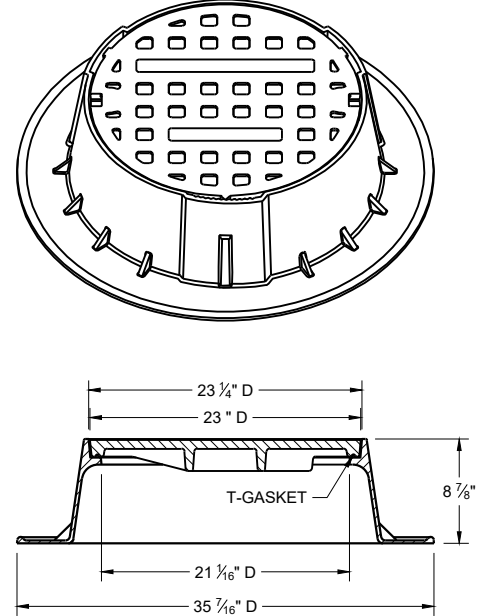
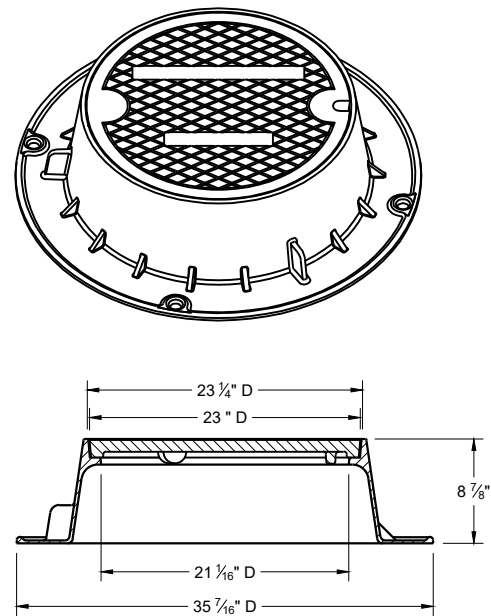
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



TYPE "K"

INLET COVER TYPE "BW"



TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

NOTE: EITHER CASTING IS ACCEPTABLE

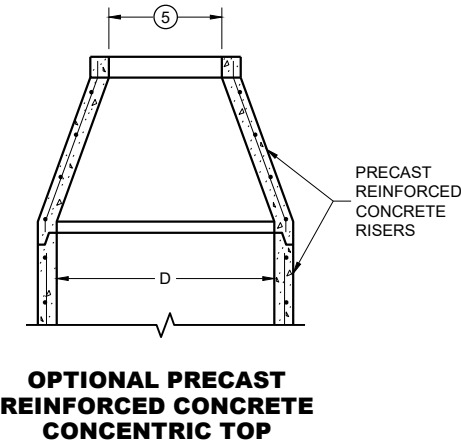
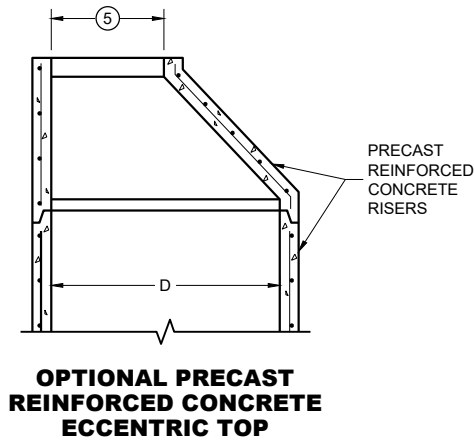
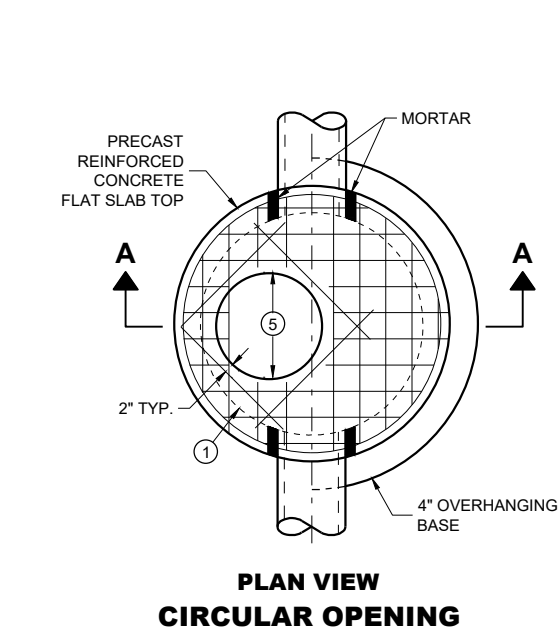
TYPE "L"

TYPE "M"

INLET COVERS TYPES BW
MANHOLE COVERS TYPES K,
J, J-S, L, AND M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR



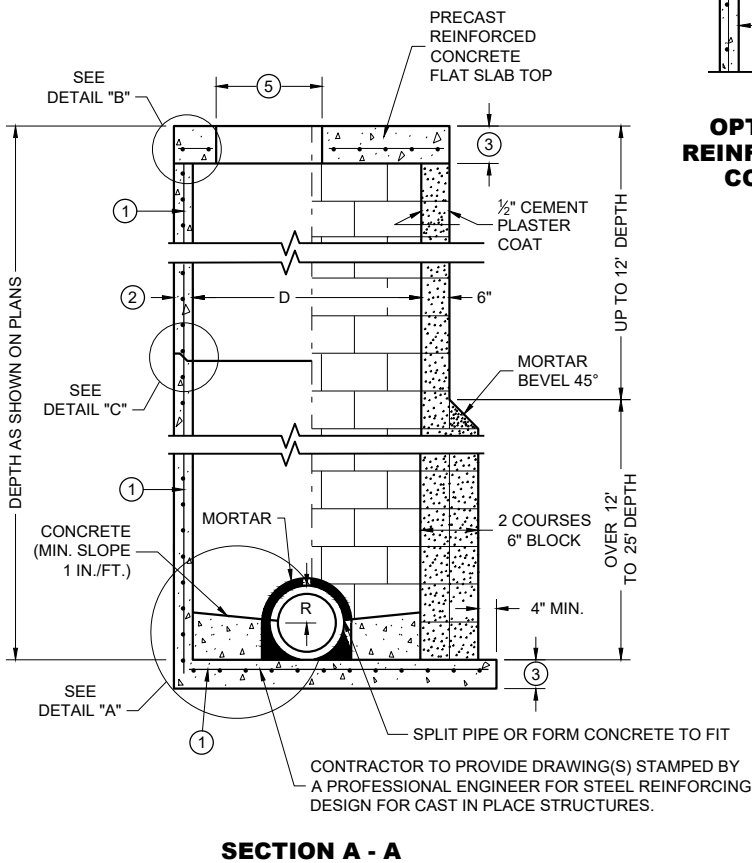
MANHOLE COVER OPENING MATRIX

MANHOLE COVER OPENING SIZE (FT.)	MANHOLE COVER TYPE	C	ALL JS	K	L	M
2 DIA.	5	X	X		X	
3 DIA.				X		X

PIPE MATRIX

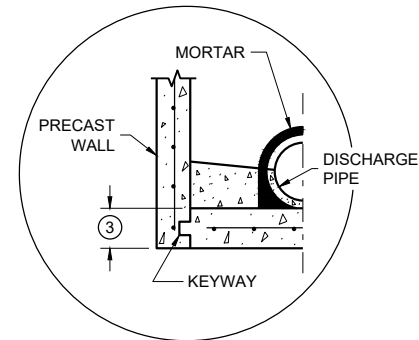
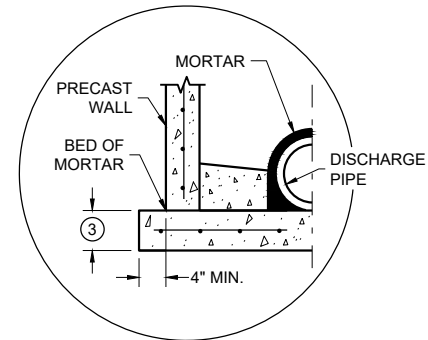
MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42 *	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES.
SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

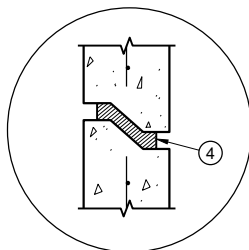
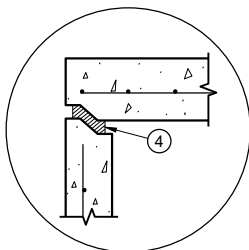
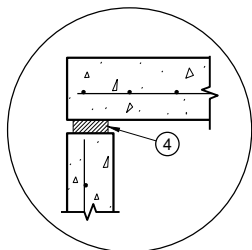


PRECAST REINFORCED
CONCRETE WITH
MONOLITHIC BASE

CONCRETE BLOCK WITH
CAST IN PLACE OR
PRECAST REINFORCED
CONCRETE BASE

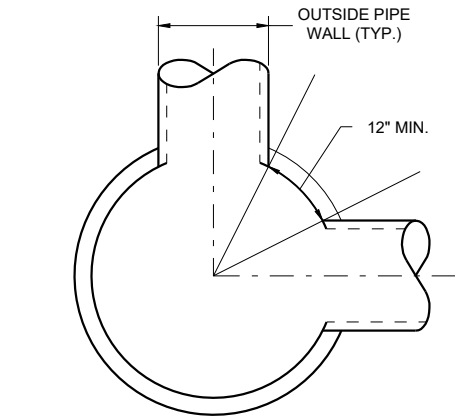


DETAIL "A"



DETAIL "B"

DETAIL "C"



DETAIL "D"

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

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. 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 IMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH 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.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

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

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.

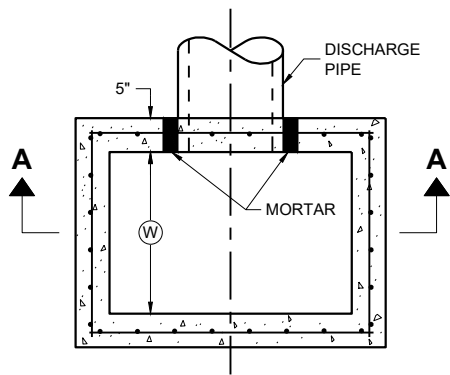
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

- 1 FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- 2 SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES
- 3 SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.
- 4 JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.
- 5 SEE MANHOLE COVER OPENING MATRIX.

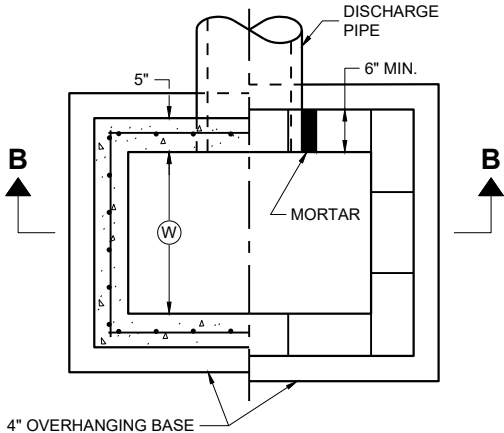
**MANHOLES, 3-FT, 4-FT
5-FT, 6-FT, 7-FT, 8-FT, 9-FT
AND 10-FT DIAMETER**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

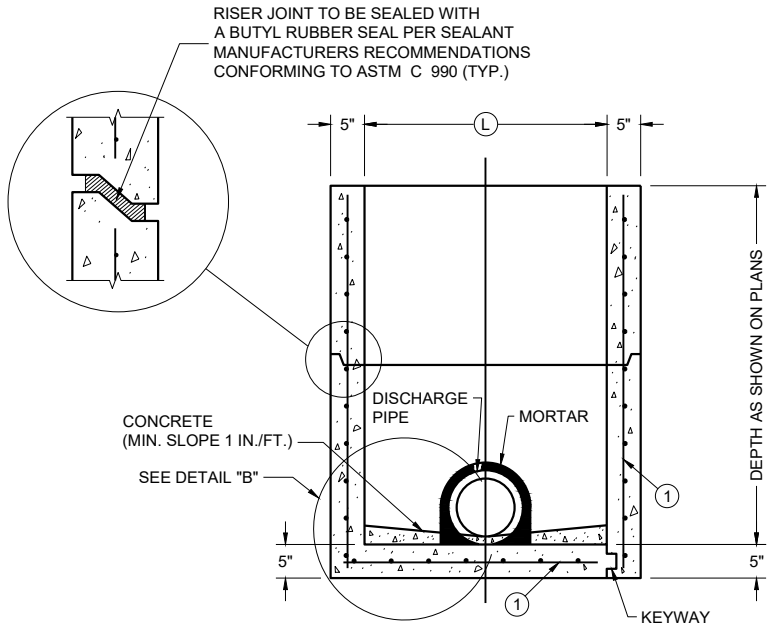
APPROVED
December 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR



PLAN VIEW



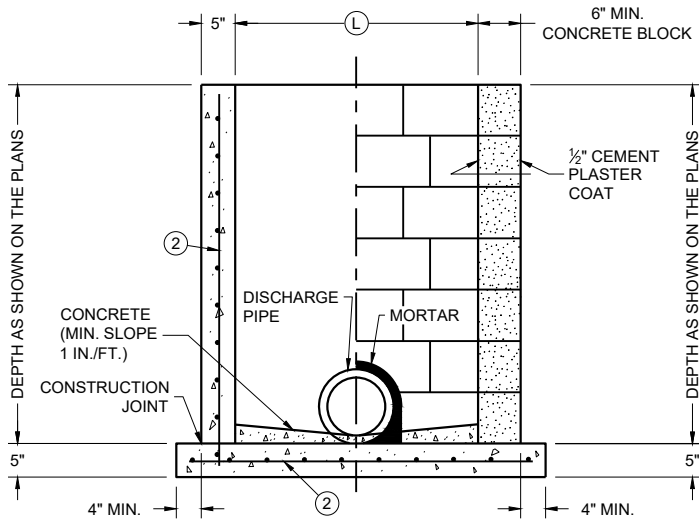
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

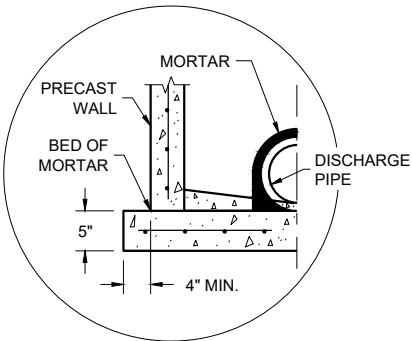
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

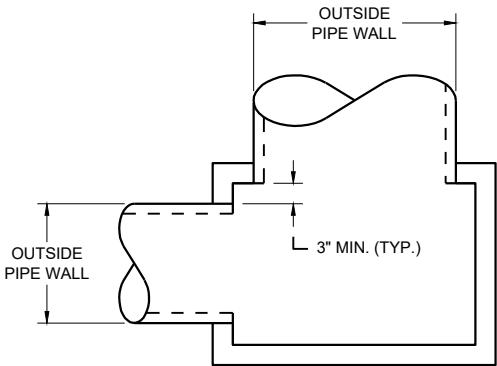
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE ①

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

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" 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 AND REINFORCED CONCRETE BASES 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.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

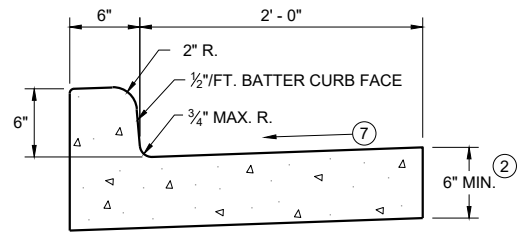
PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

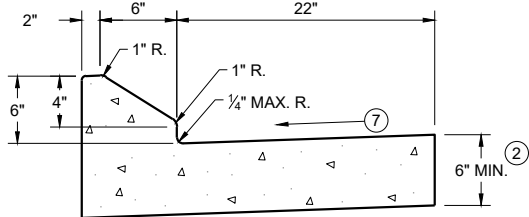
INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

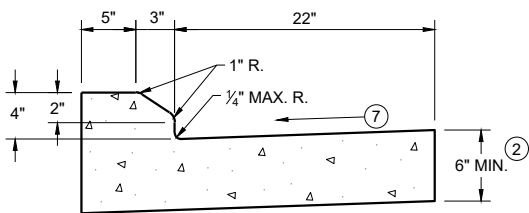
APPROVED
December 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR



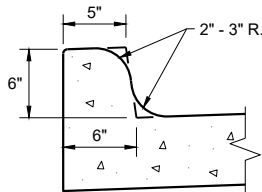
TYPES A^① & D



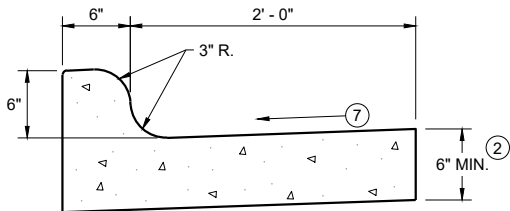
6" SLOPED CURB TYPES G^① & J



4" SLOPED CURB TYPES G^① & J

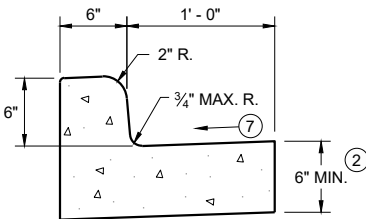


TYPES K^① & L
(OPTIONAL CURB SHAPE)



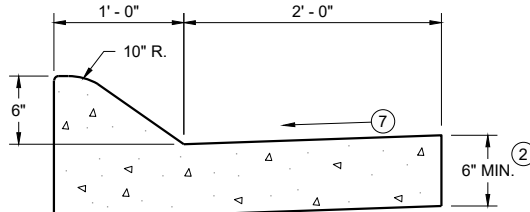
TYPES K^① & L

CONCRETE CURB AND GUTTER 30"

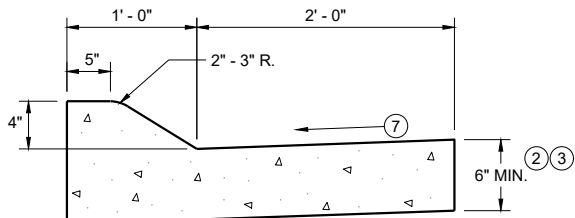


TYPES A^① & D

CONCRETE CURB AND GUTTER 18"

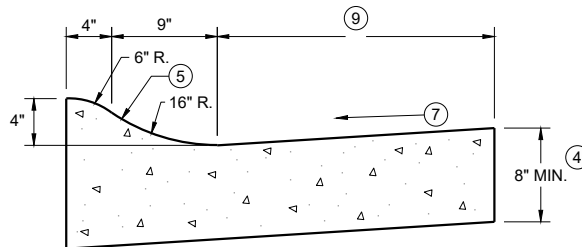


6" SLOPED CURB TYPES A^① & D



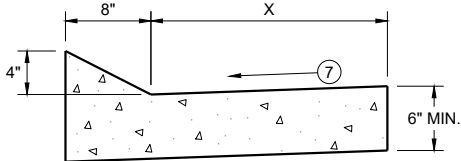
4" SLOPED CURB TYPES A^① & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R^① & T

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

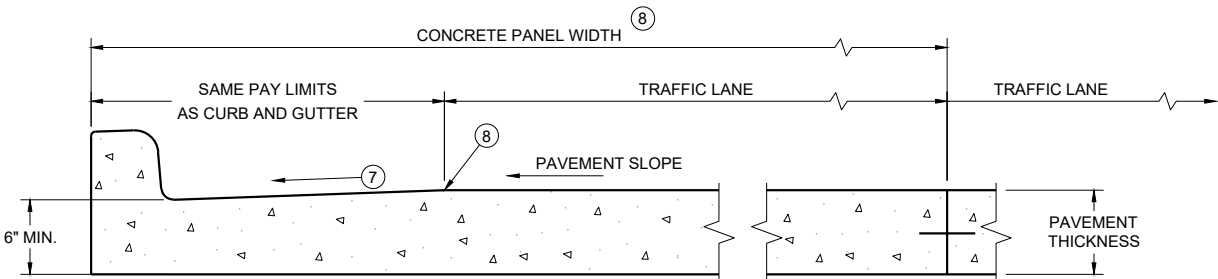


TYPES TBT & TBTT^①

CONCRETE CURB AND GUTTER

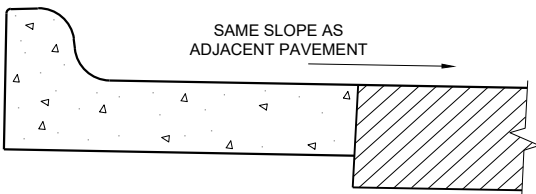
PAVEMENT THICKNESS
AND MAXIMUM CONCRETE
PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



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

GENERAL NOTES

DETAILS OF CONSTRUCTION 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.

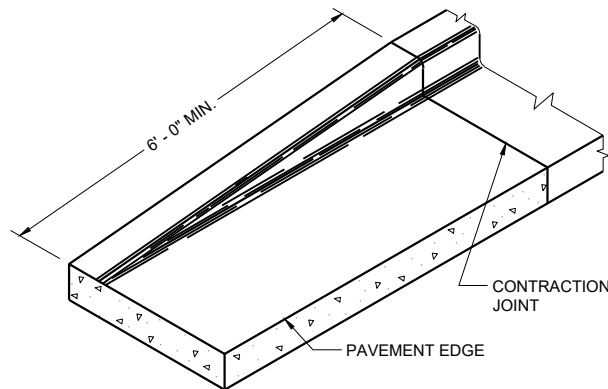
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

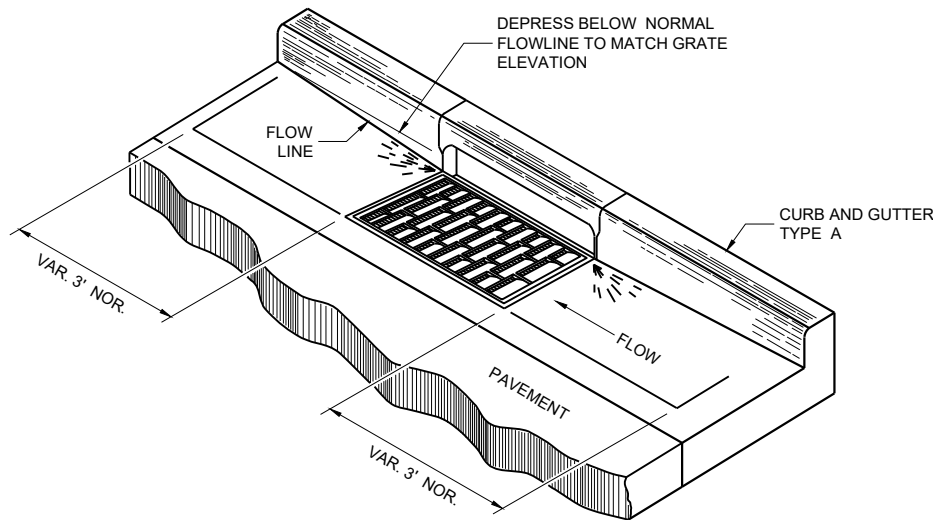
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH 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 UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES 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.
- ⑨ CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

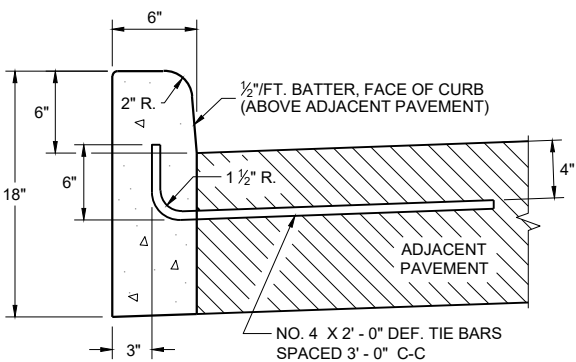


END SECTION CURB AND GUTTER

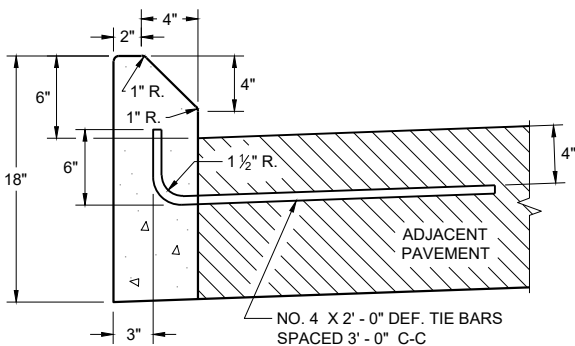


DETAIL OF CURB AND GUTTER AT INLETS

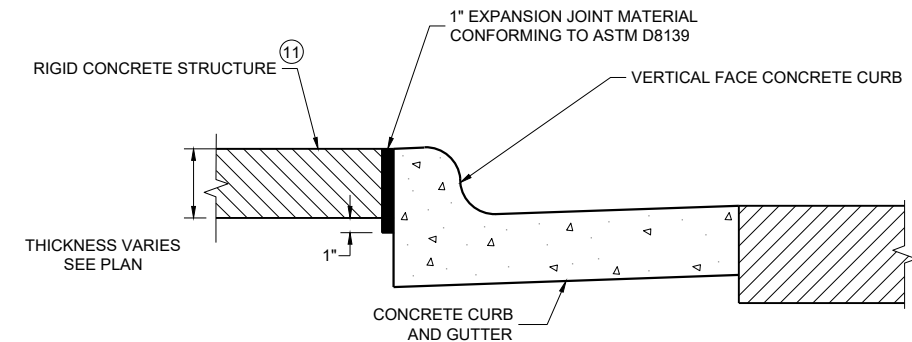
(TYPICAL H INLET COVER SHOWN)



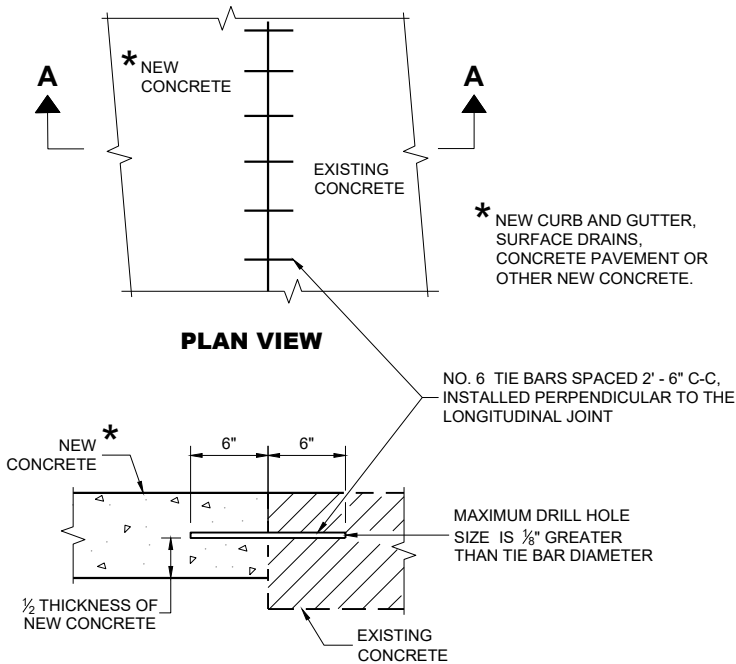
TYPES A^① & D



TYPES G^① & J
CONCRETE CURB



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE^⑪



SECTION A - A
TIE BARS DRILLED INTO EXISTING PAVEMENT

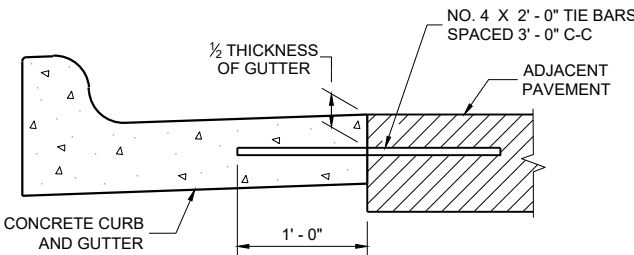
GENERAL NOTES

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

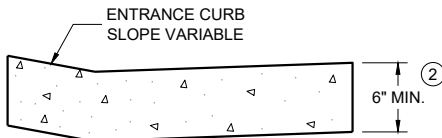
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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 GUTTERS 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.
- ⑩ REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.
- ⑪ PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.



TYPICAL TIE BAR LOCATION^①



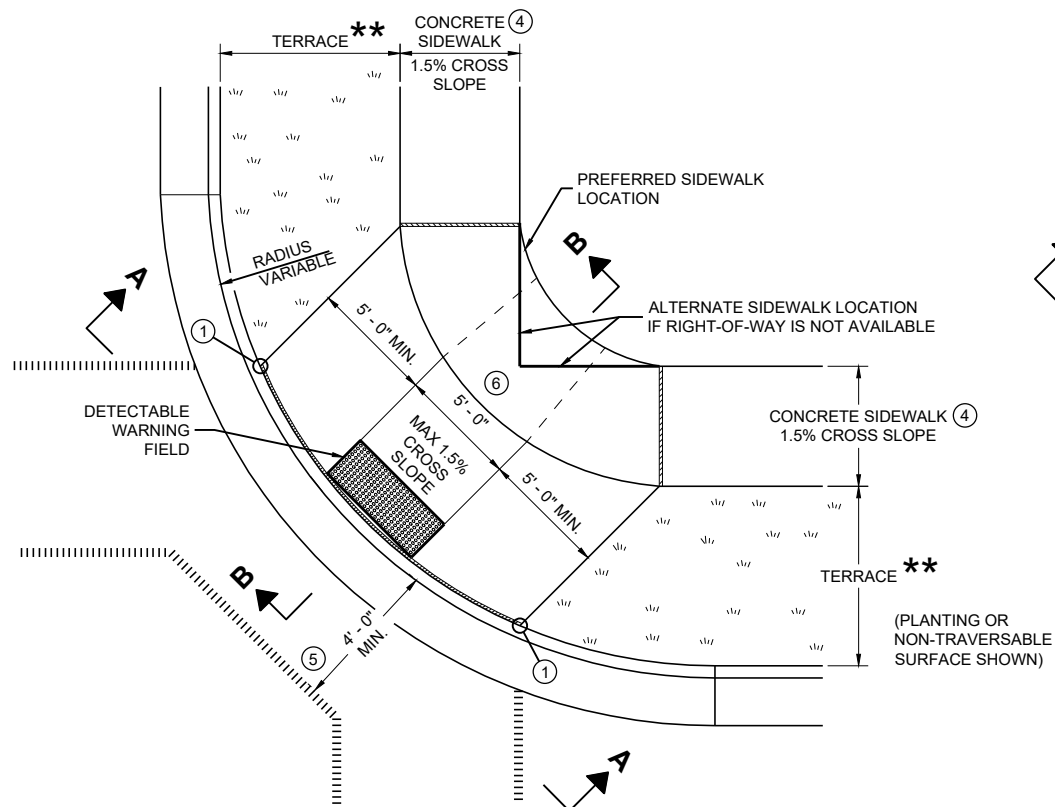
DRIVEWAY ENTRANCE CURB^⑩
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES
AND CURB AND GUTTER
APPLICATIONS

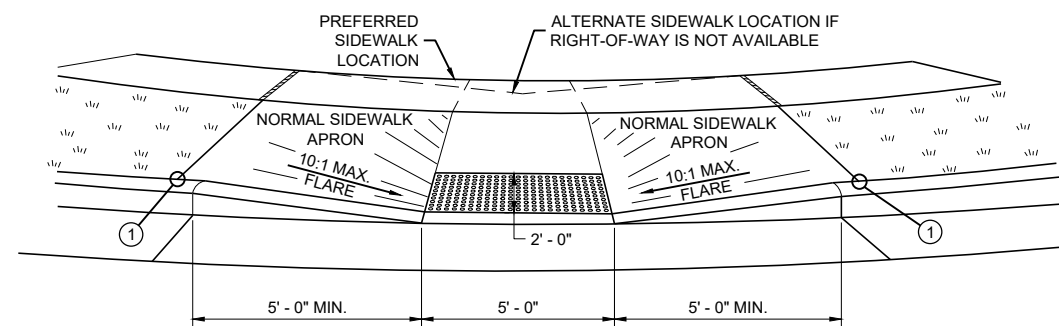
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

FHWA

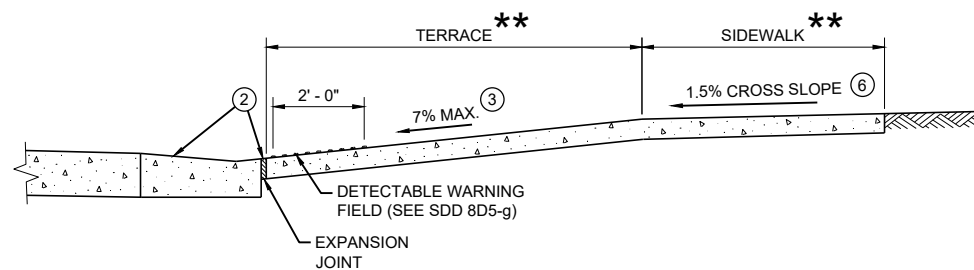


PLAN VIEW
CURB RAMP TYPE 1
(CENTER OF CORNER RADIUS)

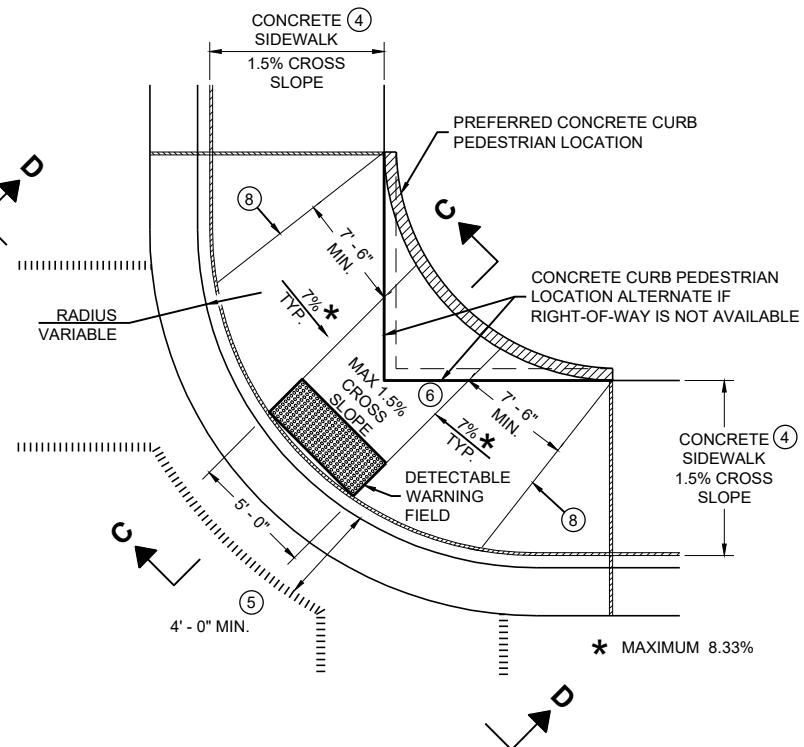


VIEW A - A FOR TYPE 1

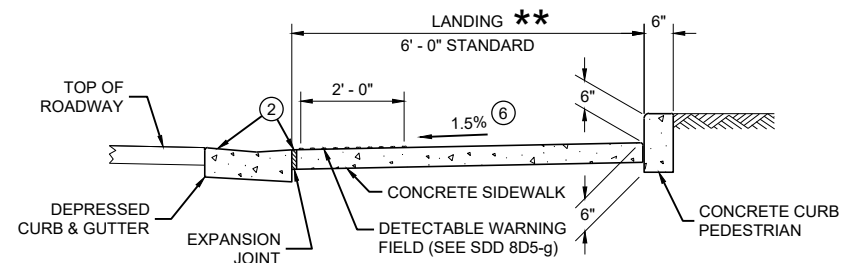
** WIDTH SHOWN ELSEWHERE
 IN THE PLANS



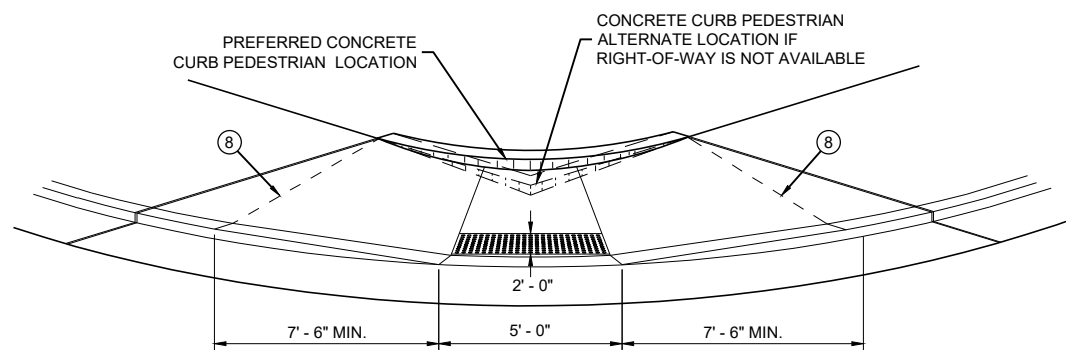
SECTION B - B FOR TYPE 1



PLAN VIEW
CURB RAMP TYPE 1 - A
(NO TERRACE)



SECTION C - C FOR TYPE 1 - A



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 FIELD 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 1/4 - 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. 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE
- 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

- ===== 1/2" EXPANSION JOINT SIDEWALK
- - - - - CONTRACTION JOINT FIELD LOCATED
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION



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

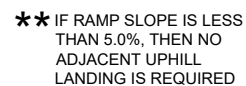


- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN $\frac{1}{4}$ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL 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 $\pm 0.5\%$ 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.

++ CONSTRUCT 6" WEDGE TO
AVOID CONCRETE BREAKAGE

	1/2" EXPANSION JOINT SIDEWALK
	CONTRACTION JOINT SIDEWALK
	PAVEMENT MARKING CROSSWALK (WHITE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

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

INTERMEDIATE RADII CAN BE INTERPOLATED



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 $\frac{1}{4}$ - 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 $\pm 0.5\%$ 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

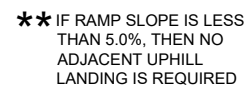
- | | |
|---|------------------------------------|
|  | 1/2" EXPANSION JOINT SIDEWALK |
|  | CONTRACTION JOINT SIDEWALK |
|  | PAVEMENT MARKING CROSSWALK (WHITE) |



++ CONSTRUCT 6" WEDGE TO
AVOID CONCRETE BREAKAGE

CURB RAMPS TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

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 ¾"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ½"
20 FEET			4' - 11 ½"	5' - 1 ¾"	4' - 3 ¾"	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 ½"	10' - 9"
30 FEET									4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ½"
40 FEET															4' - 10 ¾"	19' - 8 ½"

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



++ CONSTRUCT 6" WEDGE TO
AVOID CONCRETE BREAKAGE

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.

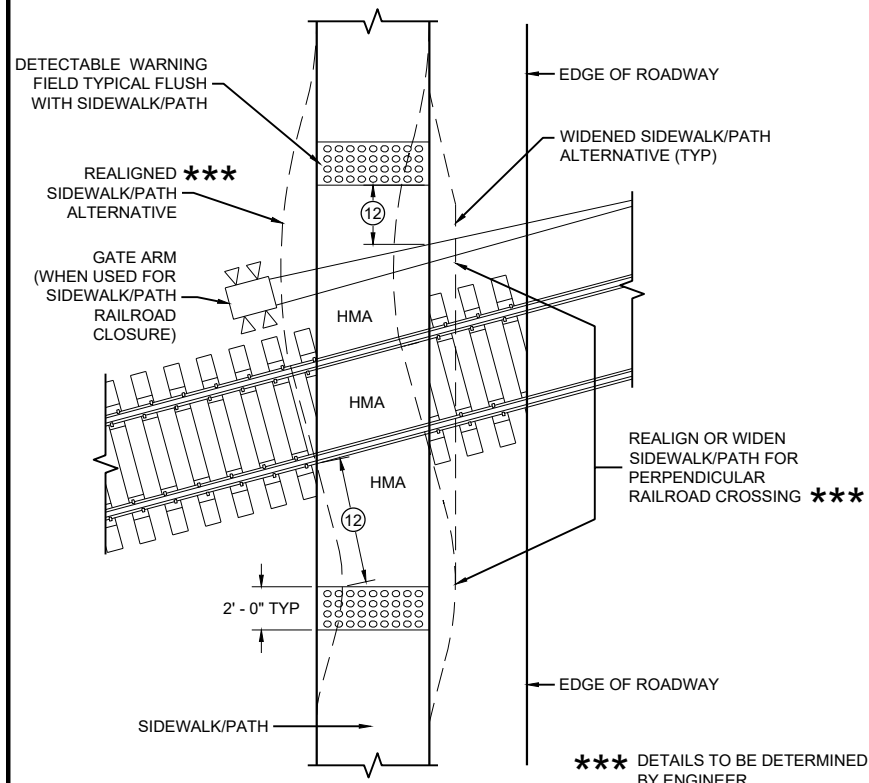
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- 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 $\frac{1}{8}$ - 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 $\pm 0.5\%$ 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 8D5-4.
- ⑧ PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- ⑩ INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



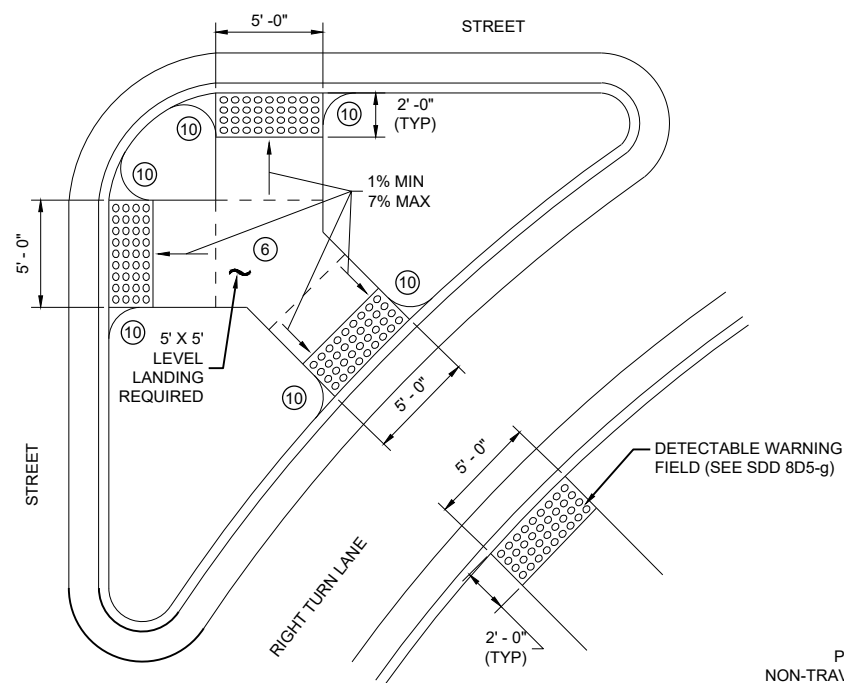
CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CURB RAMP TYPE 8

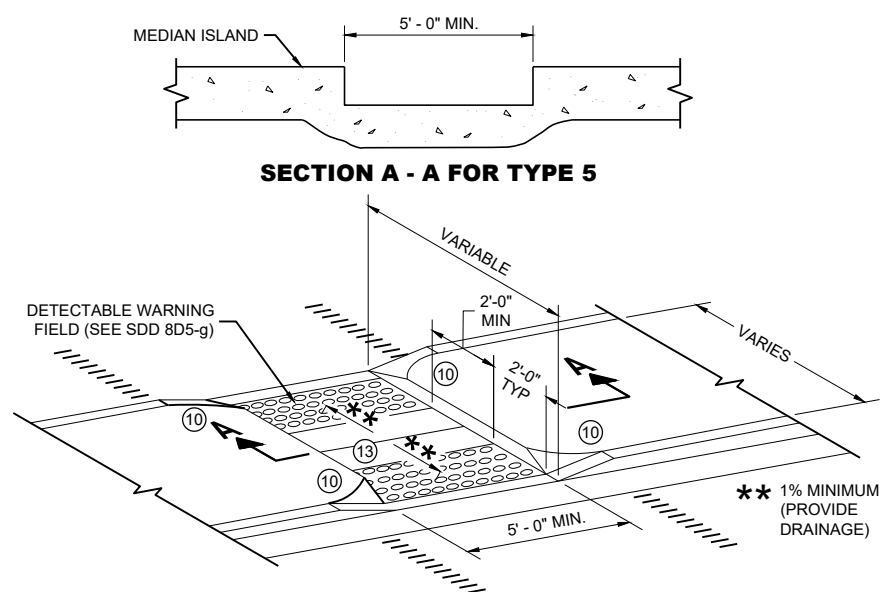
DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



CURB RAMP TYPE 6

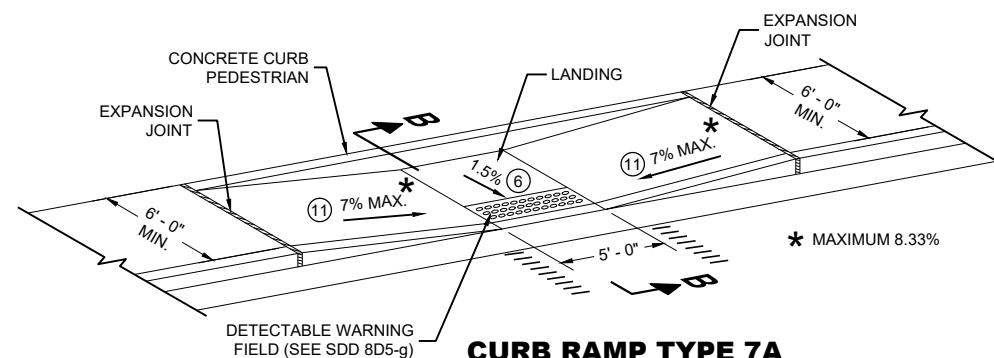
DETECTABLE WARNING AT ISLANDS

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

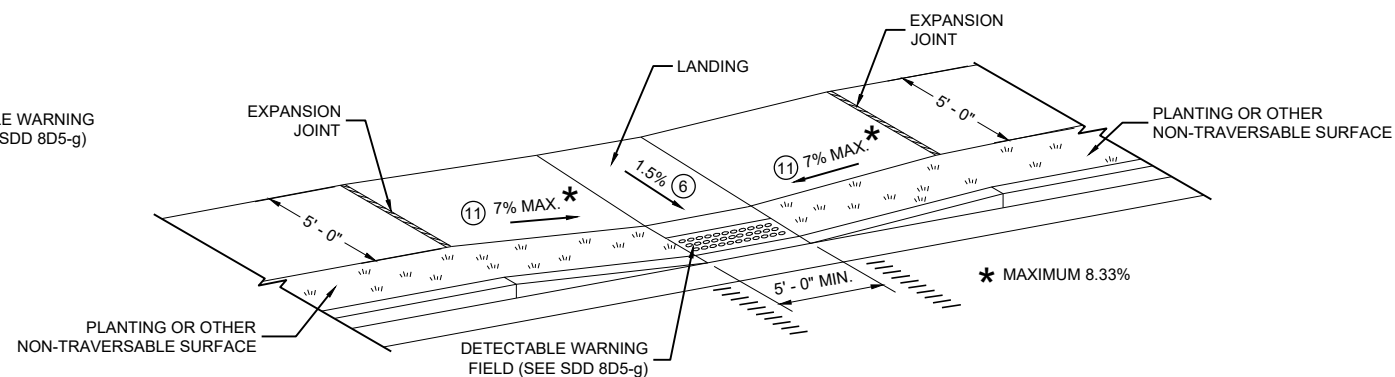


CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING



CURB RAMP TYPE 7A FOR INTERSECTIONS AND MID BLOCK CROSSINGS



CURB RAMP TYPE 7B FOR INTERSECTIONS AND MID BLOCK CROSSINGS

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.

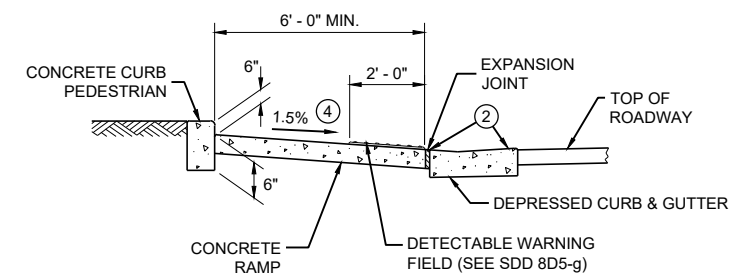
SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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 1/8 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 $\pm 0.5\%$ 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 $\pm 0.1'$ FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.
- ⑬ DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-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

- ===== 1/2" EXPANSION JOINT SIDEWALK
- - - - - CONTRACTION JOINT FIELD LOCATED
- ||||||| PAVEMENT MARKING CROSSWALK (WHITE)

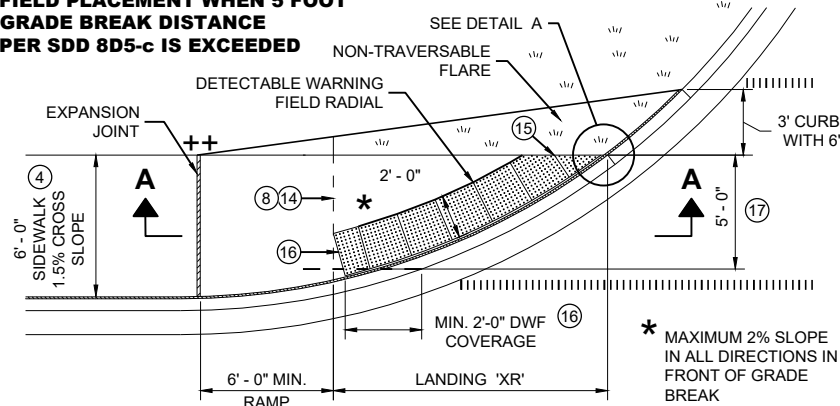


SECTION B - B FOR TYPE 7A

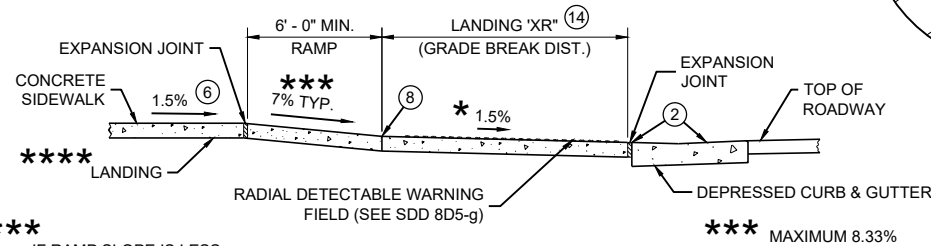
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

**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)**



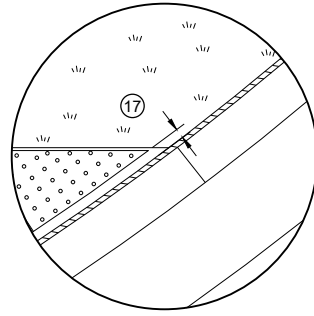
SECTION A - A FOR TYPE 4A1

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

*** MAXIMUM 8.33%

LEGEND

- 1/2" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



DETAIL 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.

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.

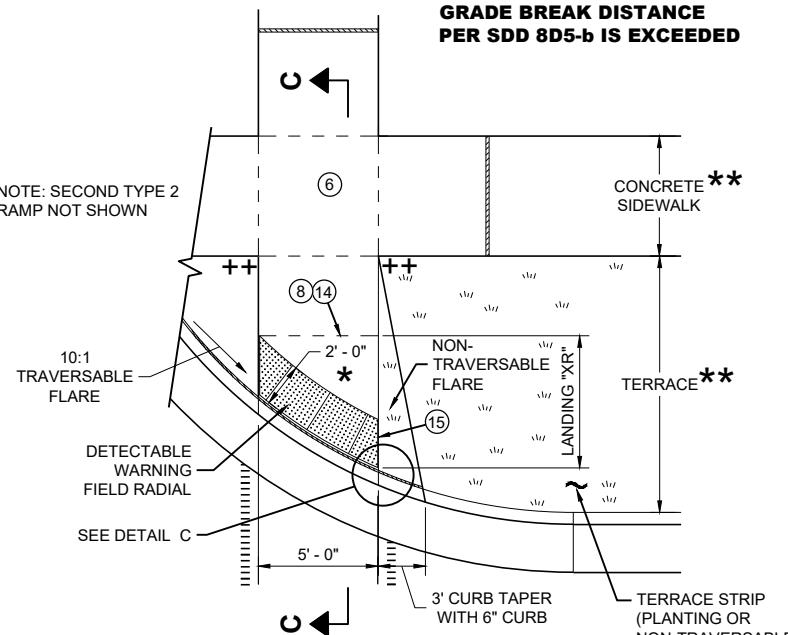
FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

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.

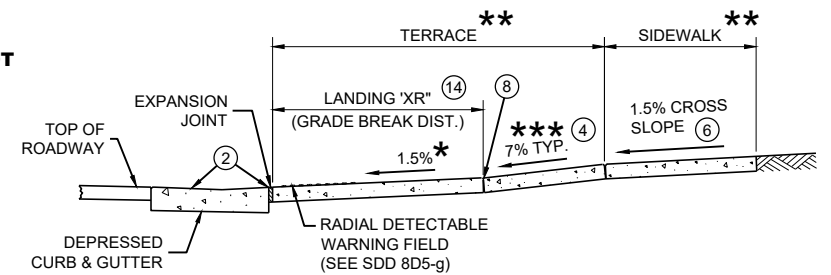
- (2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4" INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH 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 1/2" 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 WIDTH IS ALLOWABLE IN FRONT 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-b IS EXCEEDED**

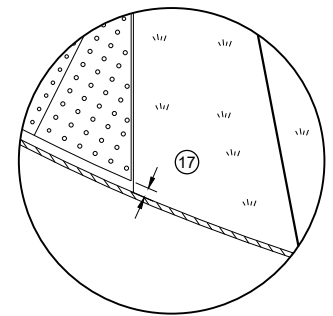
NOTE: SECOND TYPE 2
RAMP NOT SHOWN



**PLAN VIEW
CURB RAMP TYPE 2
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)**



SECTION C - C FOR TYPE 2



DETAIL C

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

** WIDTH SHOWN ELSEWHERE
IN THE PLANS

*** MAXIMUM 8.33%

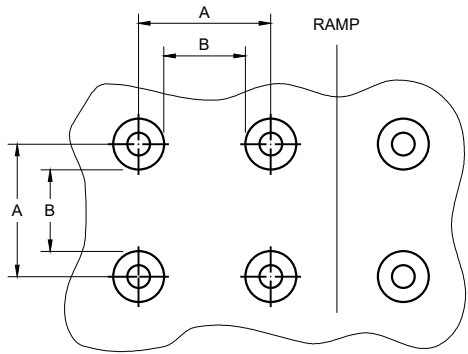
++ CONSTRUCT 6" WEDGE TO
AVOID CONCRETE BREAKAGE

**CURB RAMPS
RADIAL DETECTABLE WARNING**

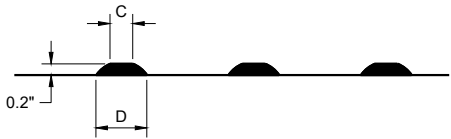
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	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.

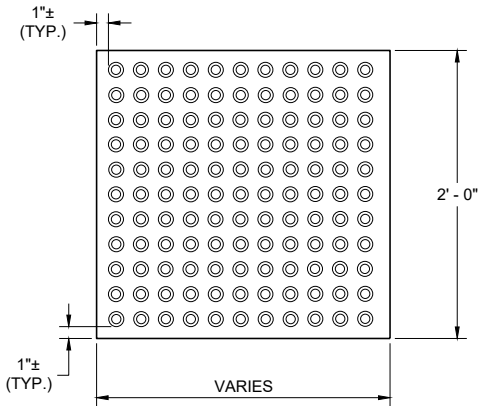


PLAN VIEW

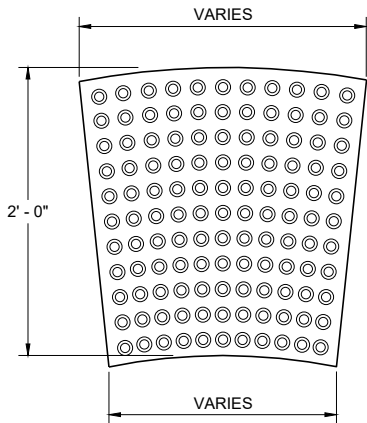


ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

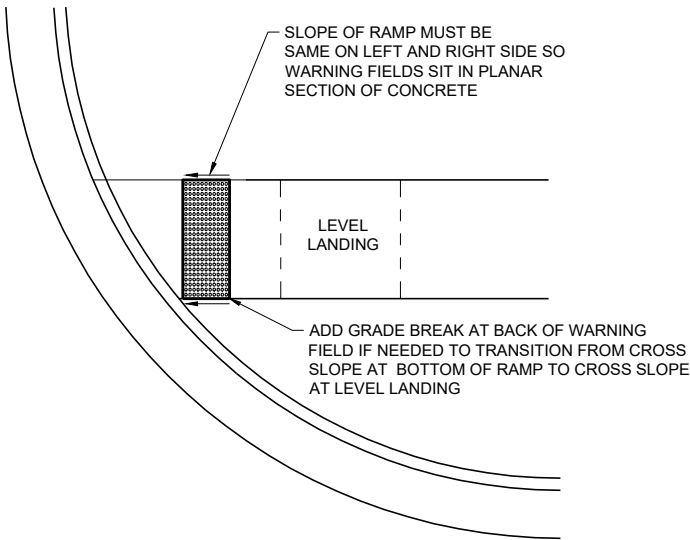


RECTANGULAR
PLATES

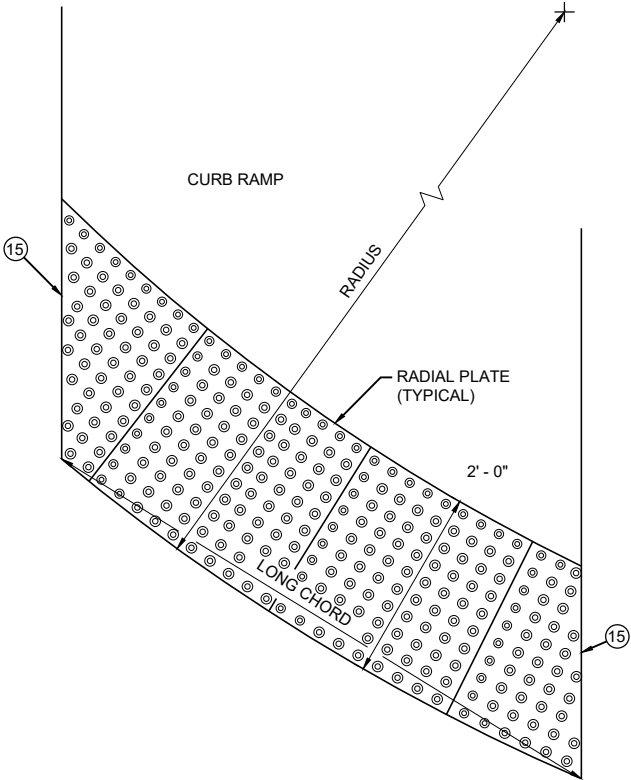


RADIAL
PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



DETECTABLE WARNING FIELD
PLANAR INSTALLATION



PLAN VIEW
RADIAL DETECTABLE
WARNING FIELD ATTRIBUTES

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.

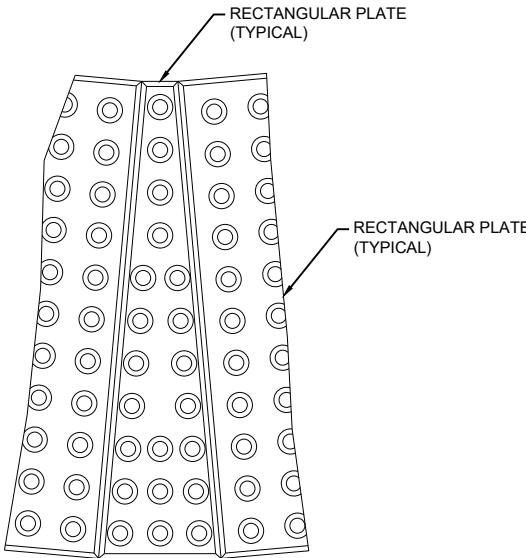
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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 1/8\"/>

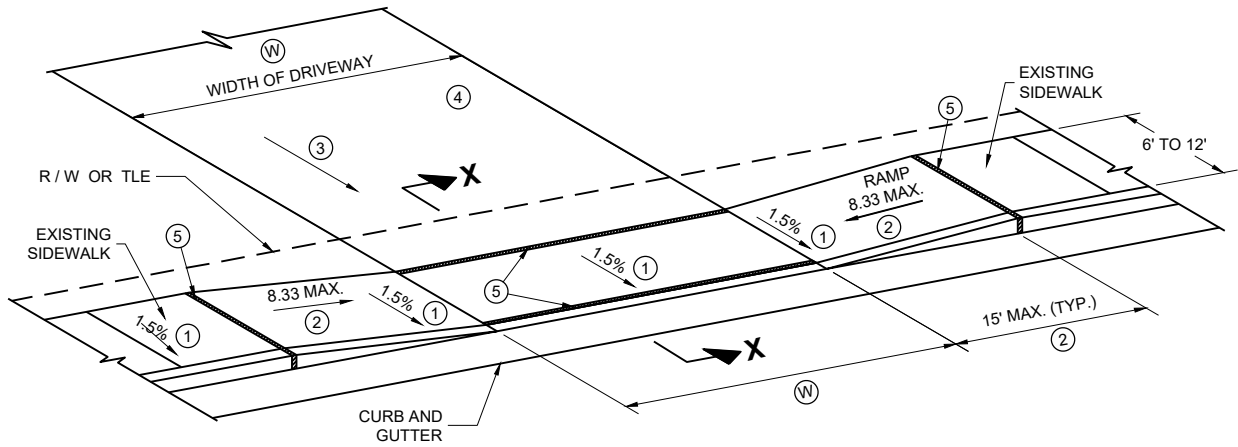


PLAN VIEW
RADIAL WEDGE PLATE
CONNECTION DETAIL

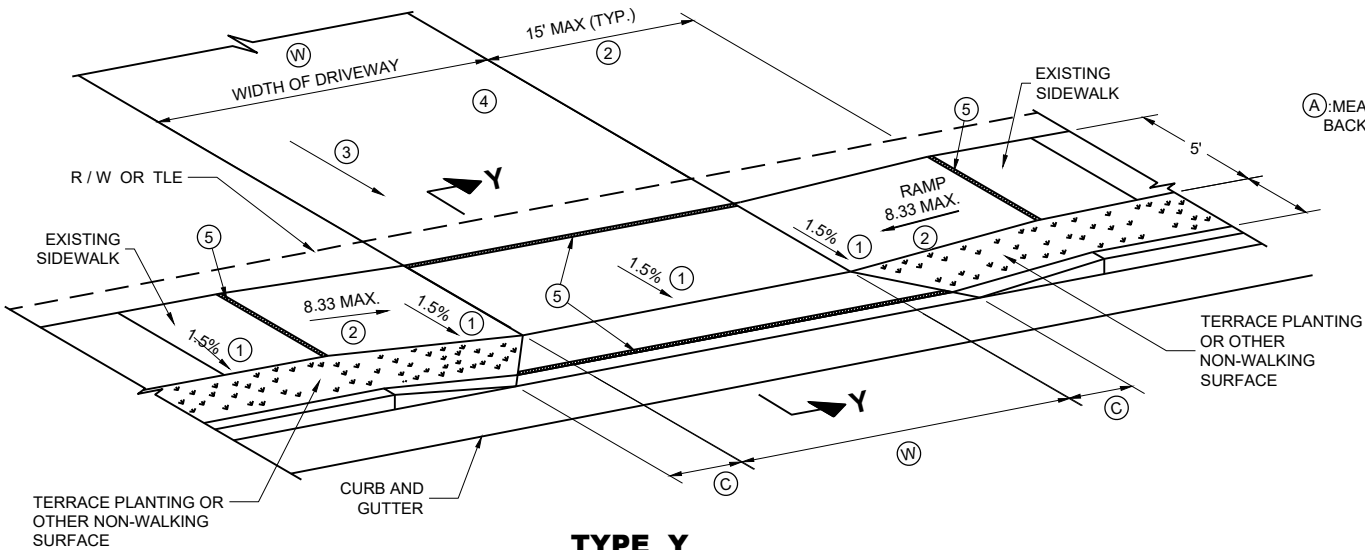
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR



TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

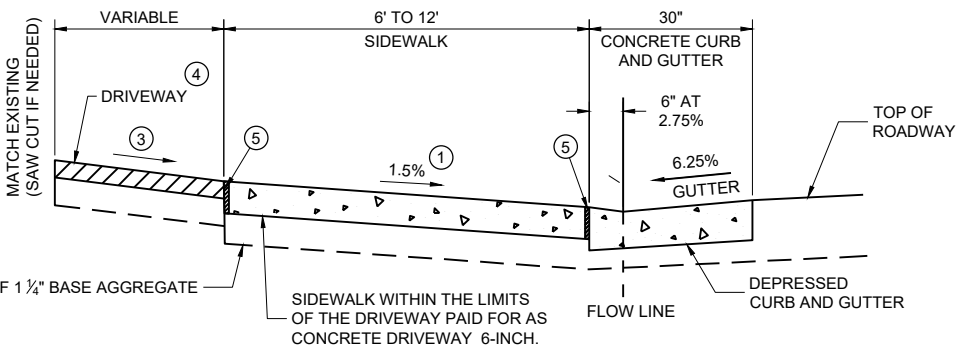
OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

- CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

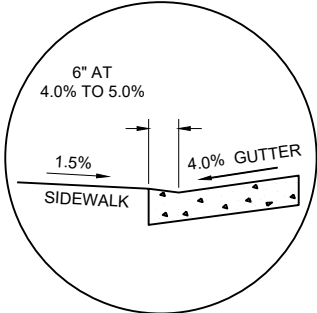
(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
· 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
· 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
· 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

(5) ½" EXPANSION JOINT FILLER



SECTION X - X



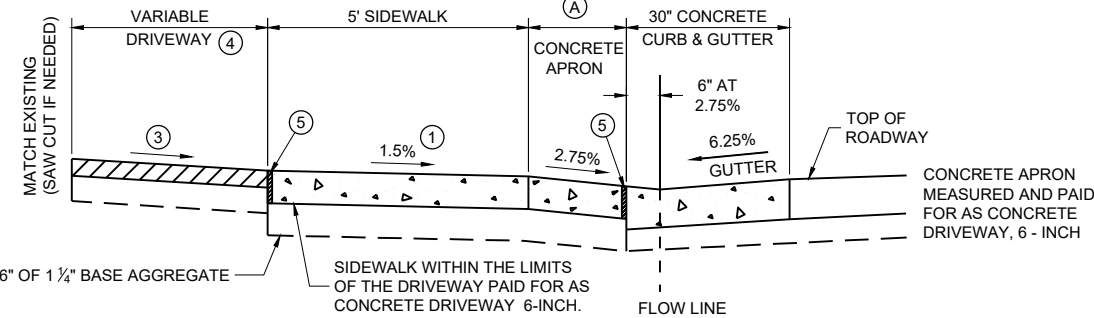
SECTION X - X
4% GUTTER SLOPE

TABLE Y

(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

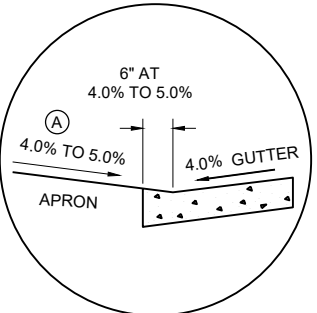
(W): 12' MIN. - 24' MAX. RESIDENTIAL AND
NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

(A): MEASURE FROM
BACK OF CURB



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y - Y
DRIVEWAY DETAIL WITH CONCRETE
CURB AND GUTTER
(URBAN AND SUBURBAN)

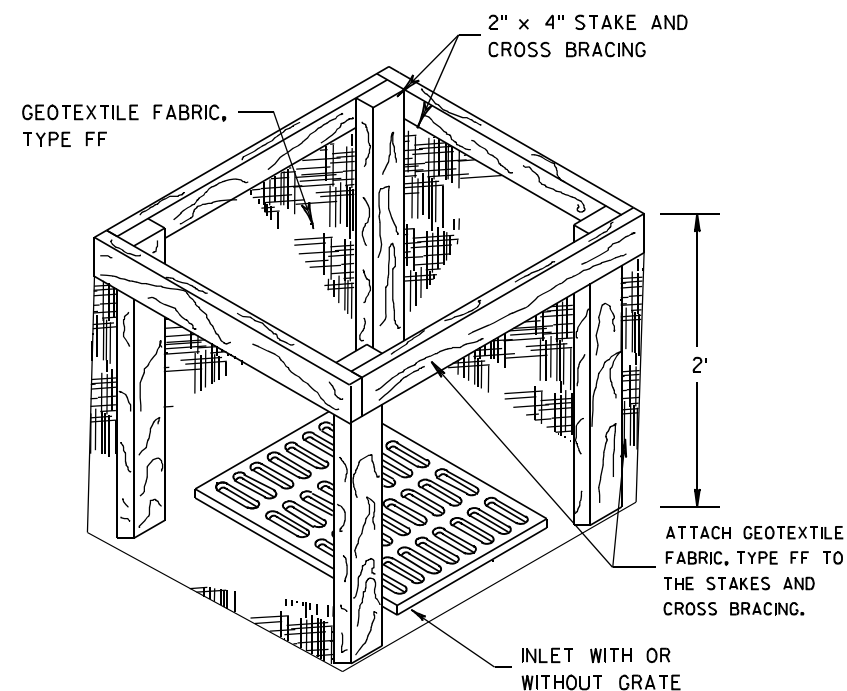
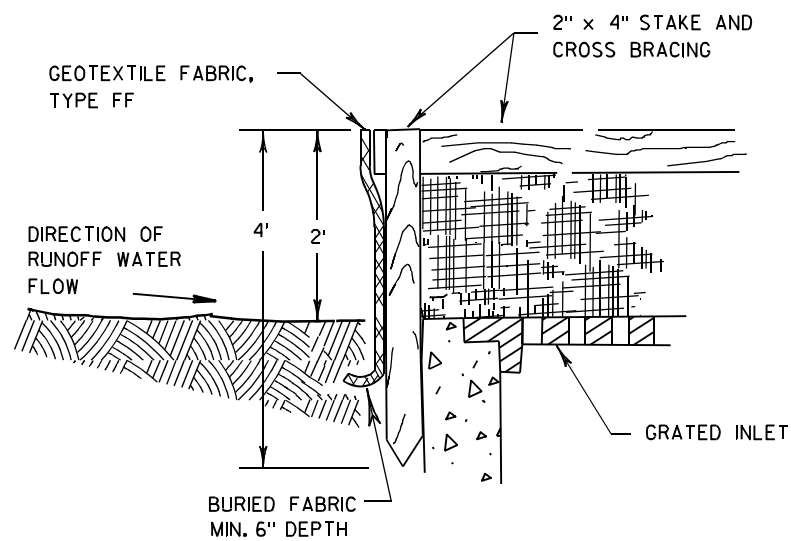


SECTION Y - Y
4% GUTTER SLOPE

DRIVEWAY AND
SIDEWALK RAMPS
TYPES X AND Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR



INLET PROTECTION, TYPE A

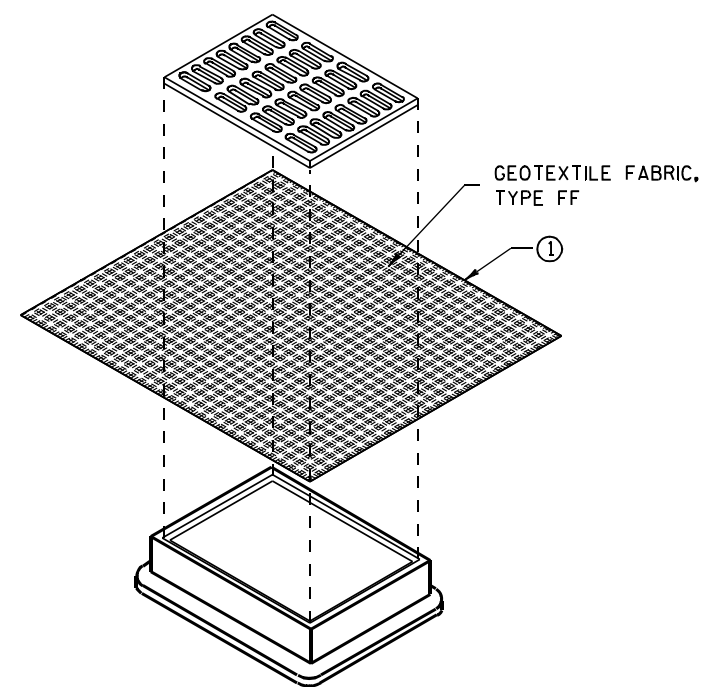
GENERAL NOTES

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.

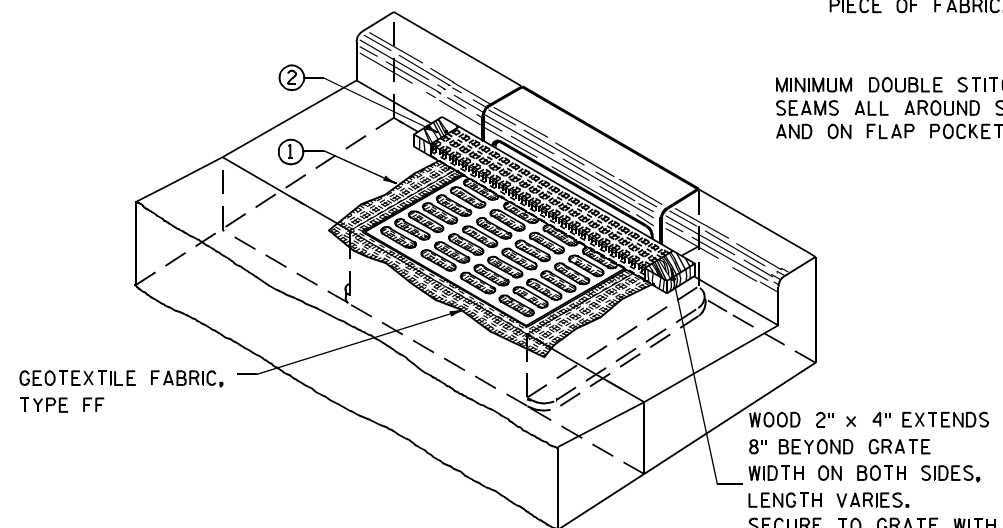
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 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.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

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

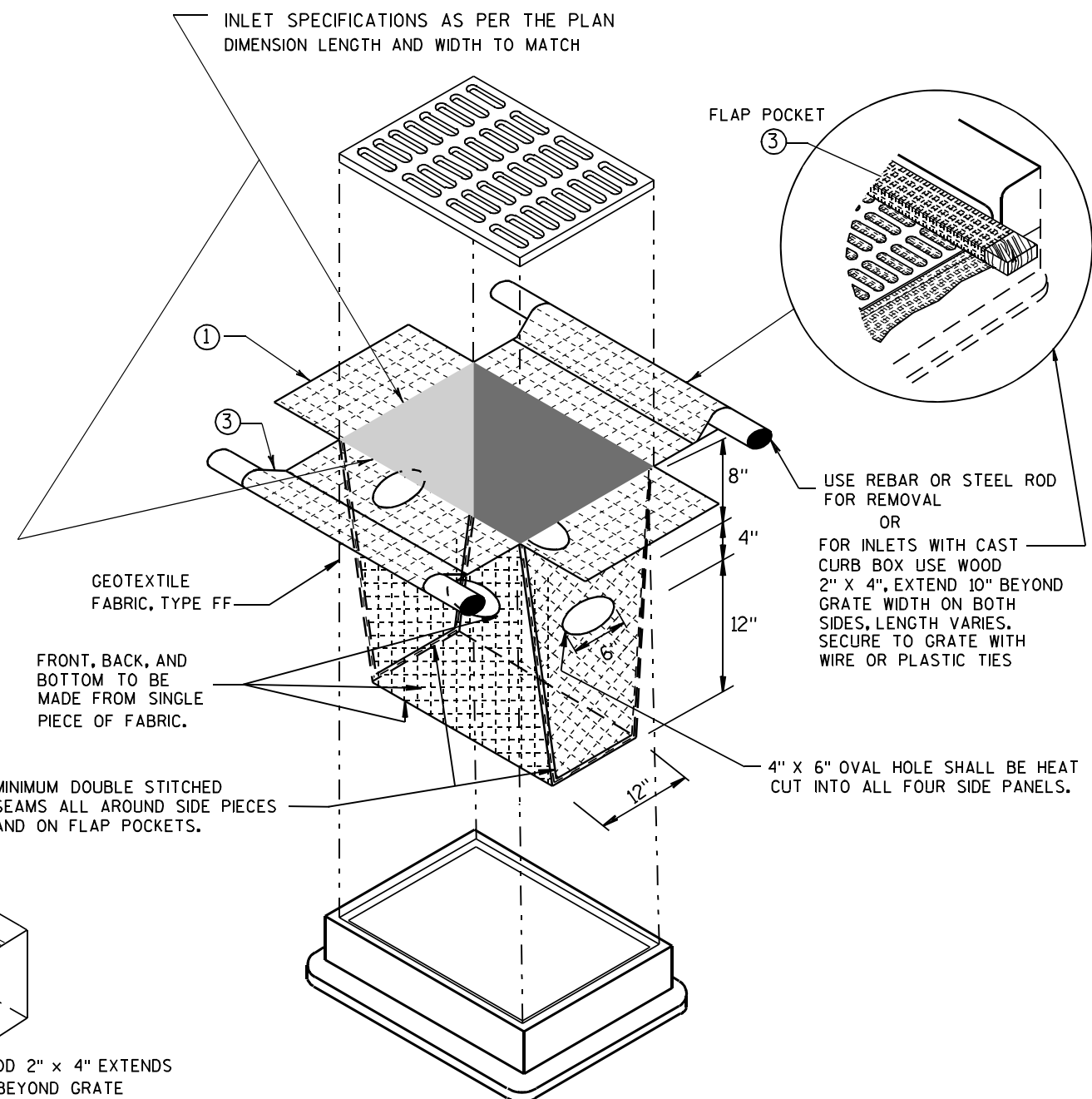
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

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.



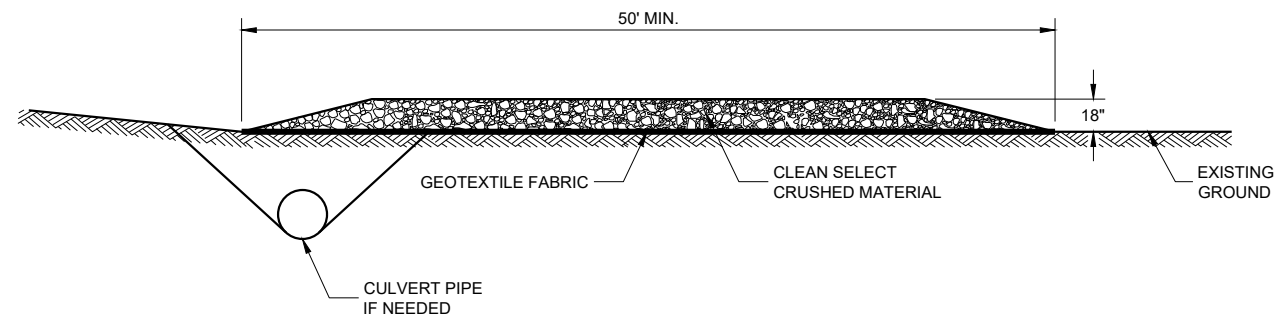
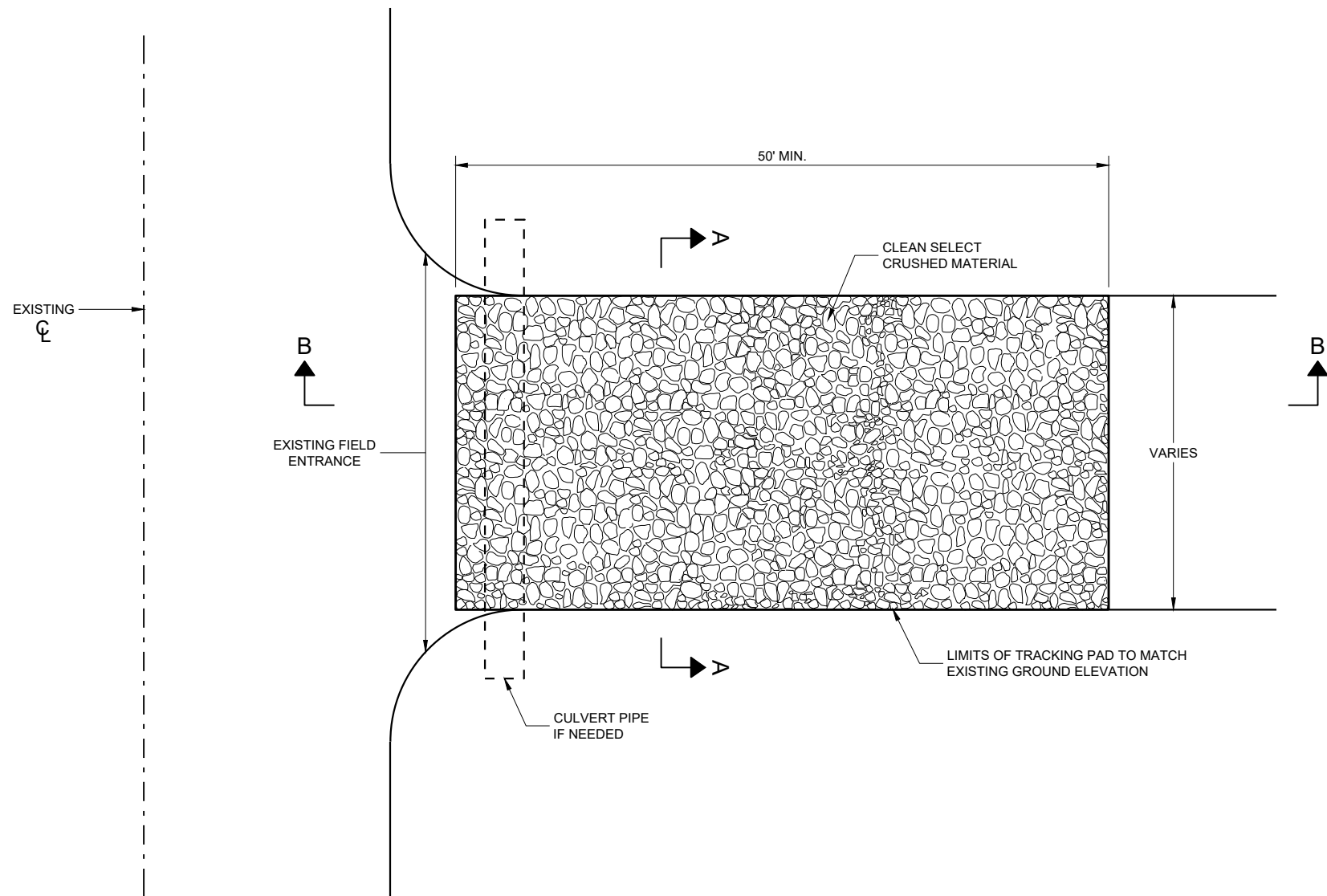
INLET PROTECTION, TYPE D

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

**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Connolly
DATE 117
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER



SECTION B - B

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.

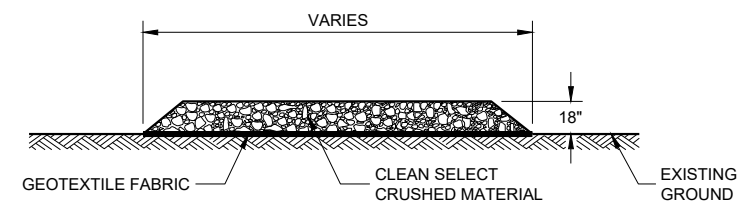
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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.



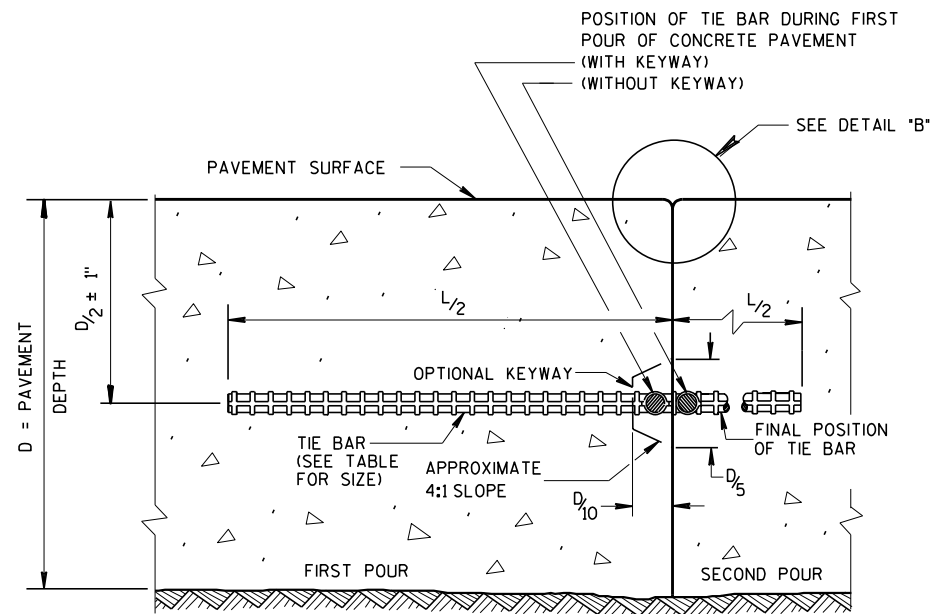
SECTION A - A

TRACKING PAD

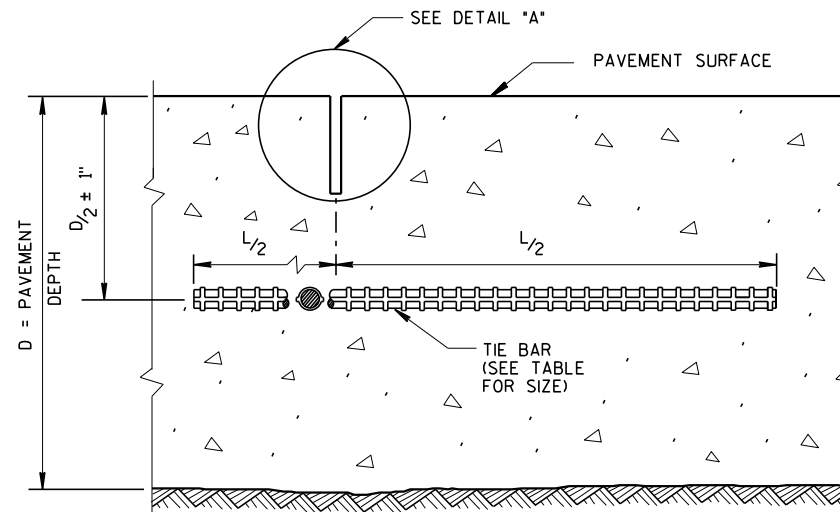
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



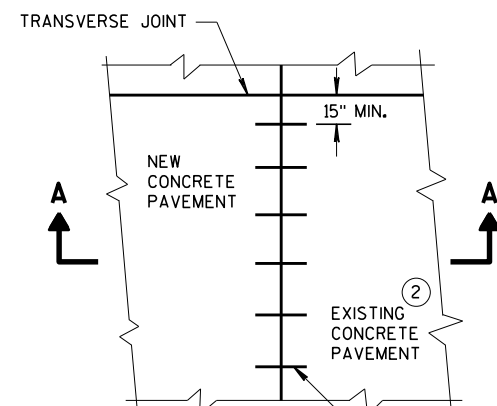
CONSTRUCTION JOINT



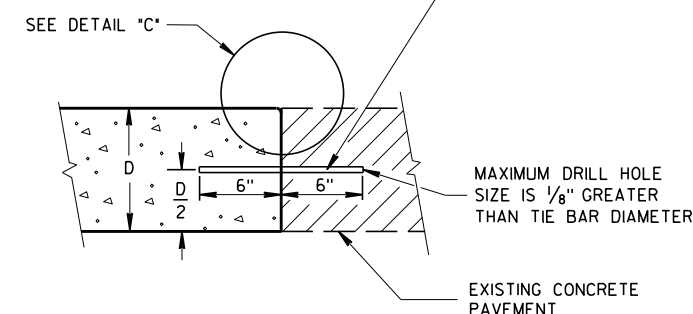
SAWED JOINT

GENERAL NOTES

- CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.
- CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.
- ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.
 - PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

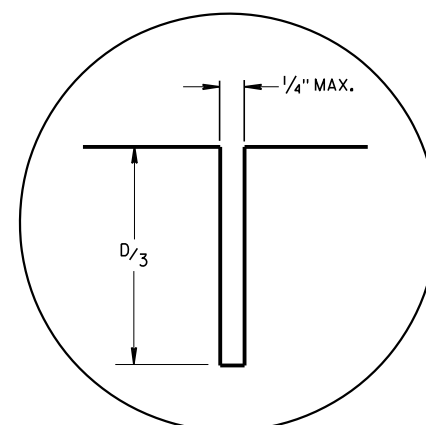


PLAN VIEW

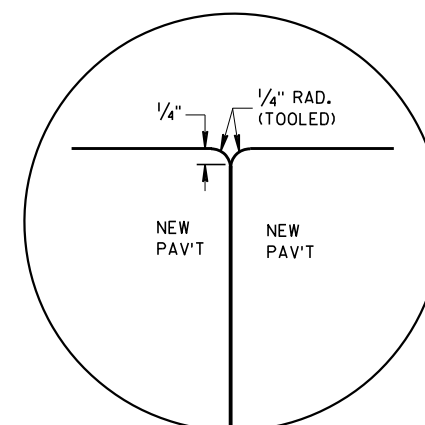


SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT
TIE BARS ANCHORED
INTO EXISTING PAVEMENT

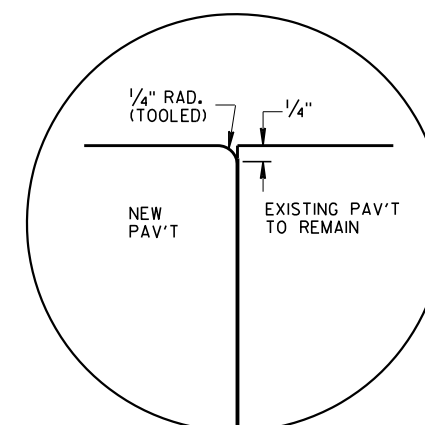
NO. 6 TIE BARS SPACED 30" C-C, INSTALLED PERPENDICULAR TO THE LONGITUDINAL JOINT. ①



DETAIL "A"



DETAIL "B"



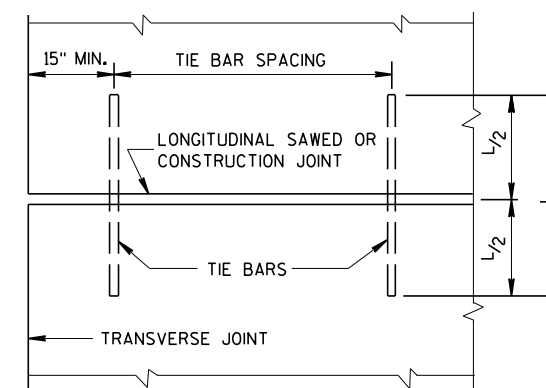
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
$< 10 \frac{1}{2}"$	NO. 4	30"	36"
$\geq 10 \frac{1}{2}"$	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

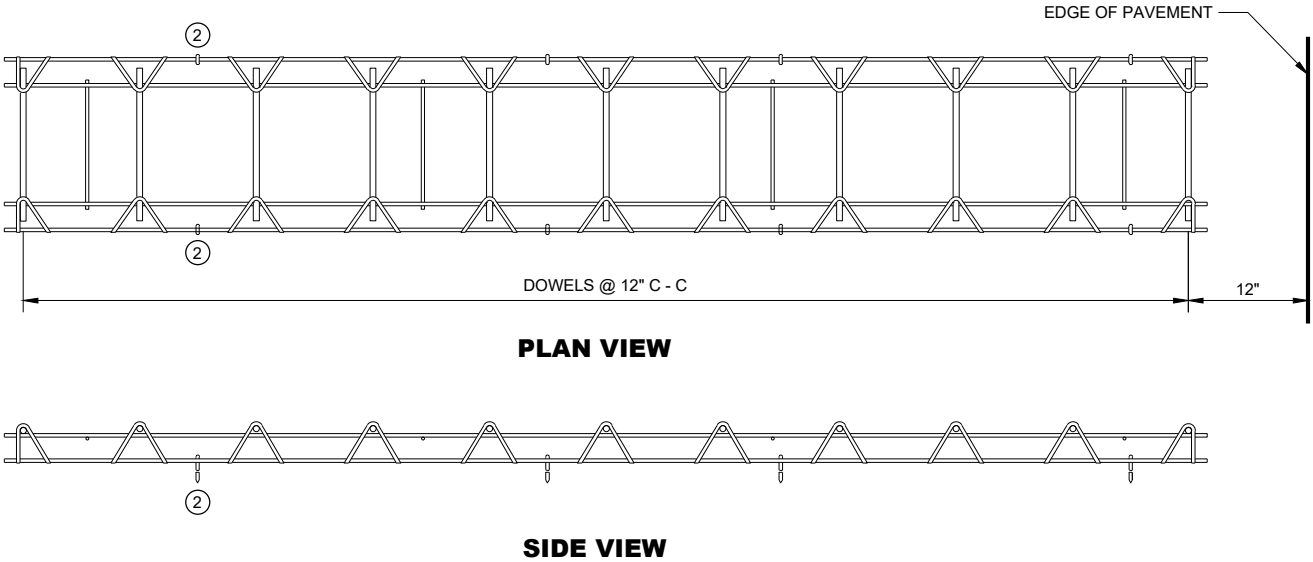


PLAN VIEW
SHOWING LOCATION OF TIE BARS

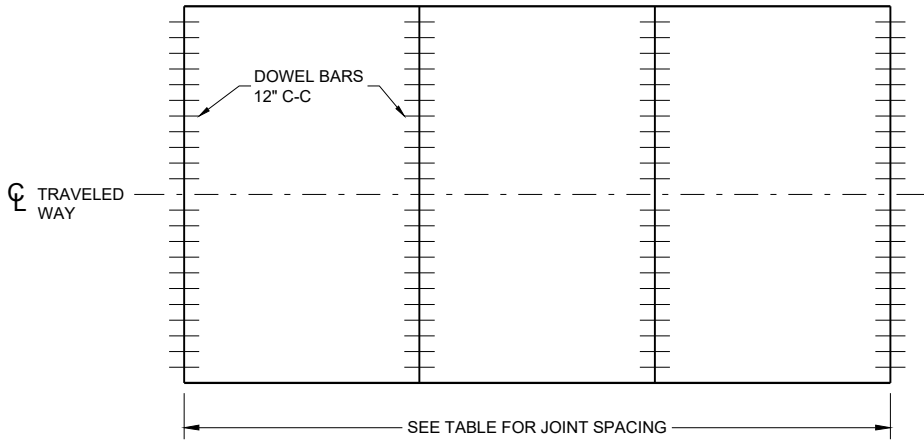
CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

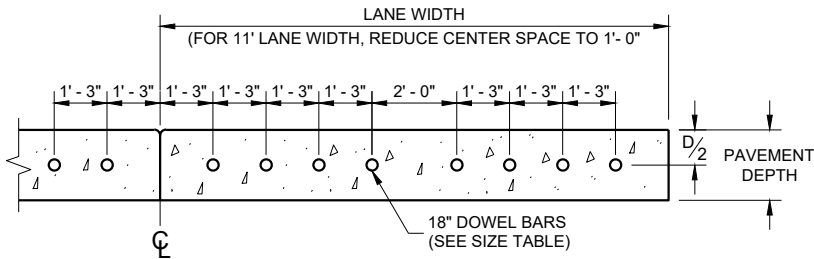
APPROVED
March 2018 /S/ Peter Kern
DATE PAVEMENT SUPERVISOR
FHWA



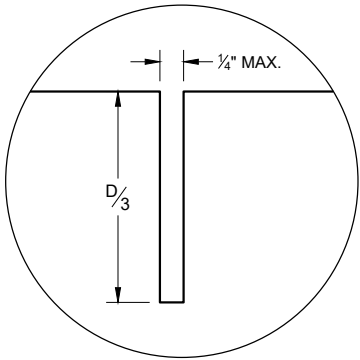
CONTRACTION JOINT DOWEL ASSEMBLY 1



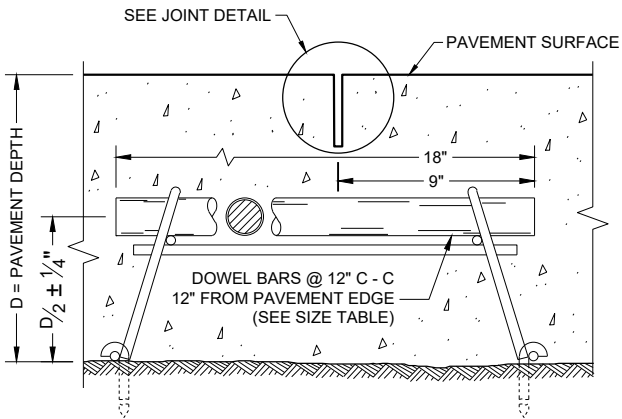
CONTRACTION JOINT LOCATIONS



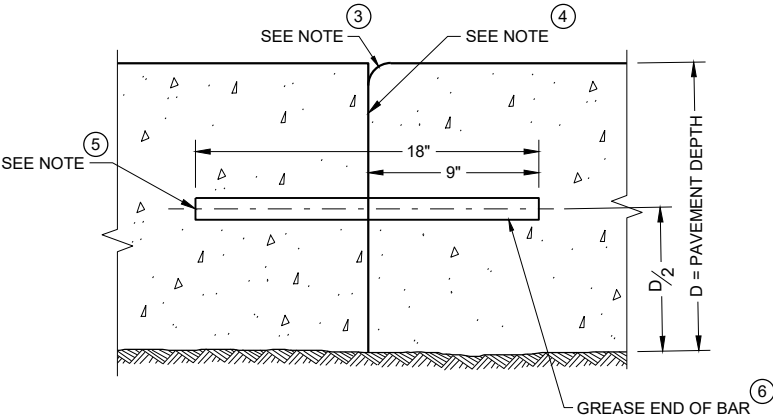
DRILLED DOWEL BAR CONSTRUCTION JOINT 7



JOINT DETAIL



DOWELED CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

- 1 OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.
- 2 SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
- 3 FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4" RADIUS AT FORMED JOINTS.
- 4 PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
- 5 INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.
- 6 APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
- 7 ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

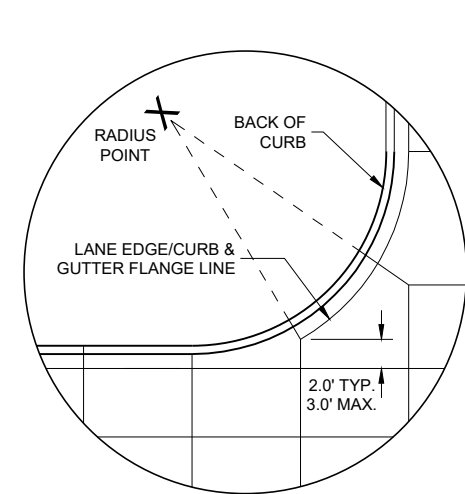
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 1/2"	NONE	12'
7", 7 1/2"	1"	14'
8" & ABOVE	1 1/4"	15'

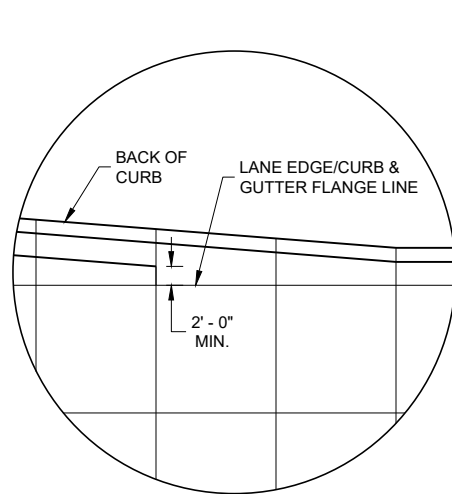
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

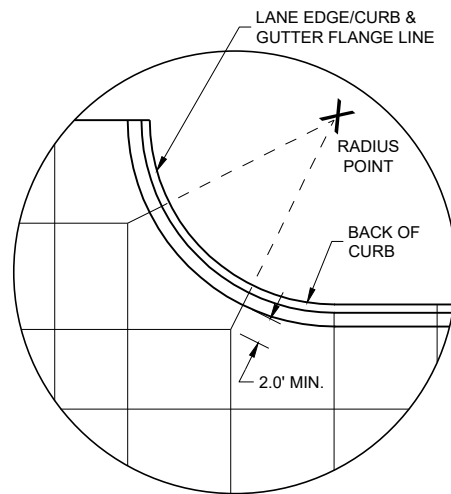
APPROVED
November 2022 /S/ Peter Kemp P.E.
DATE PAVEMENT SUPERVISOR 120
FHWA



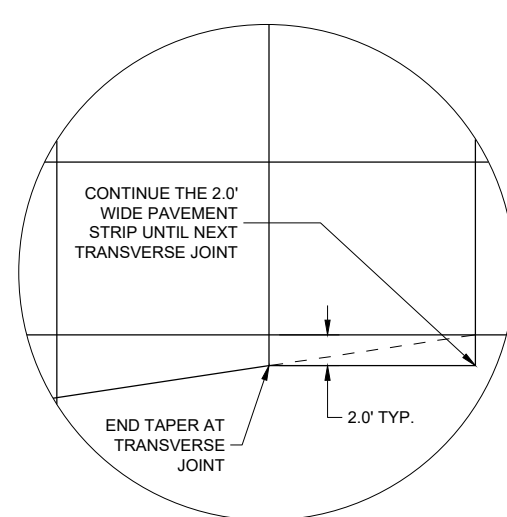
DETAIL "A"



DETAIL "B"



DETAIL "C"



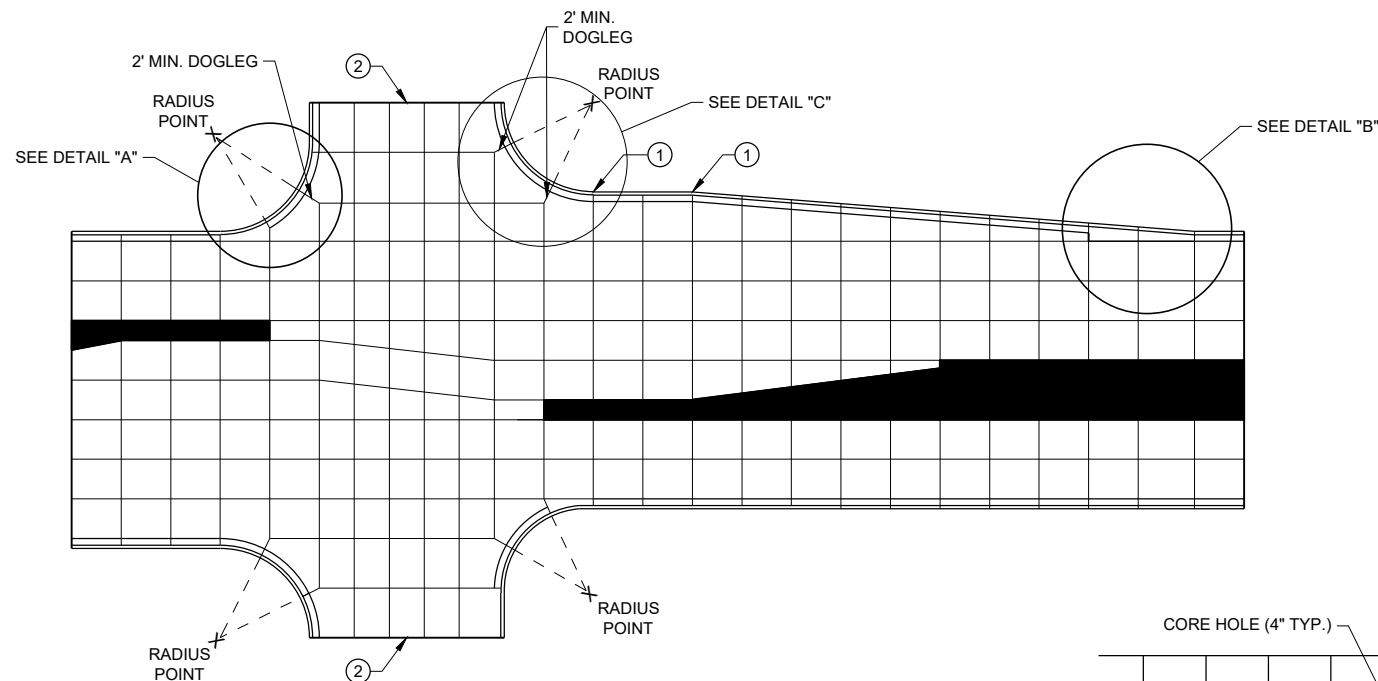
DETAIL "D"

GENERAL NOTES

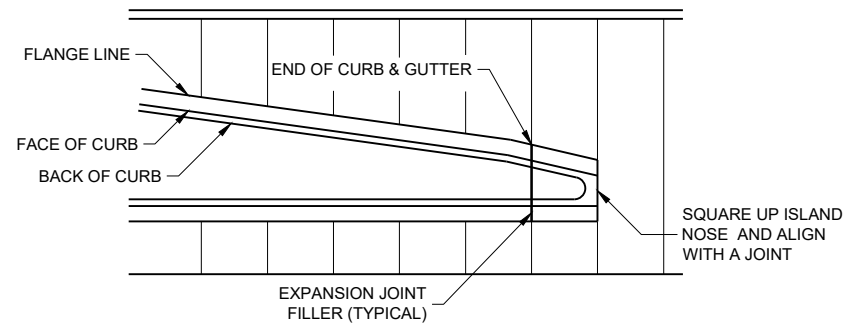
- THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.
- ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.
- CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.
- ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.
- AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.
- SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.
- AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.
- CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.
- 1 PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
 - 2 CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
 - 3 THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.

PAVEMENT DEPTH AND JOINT SPACING TABLE

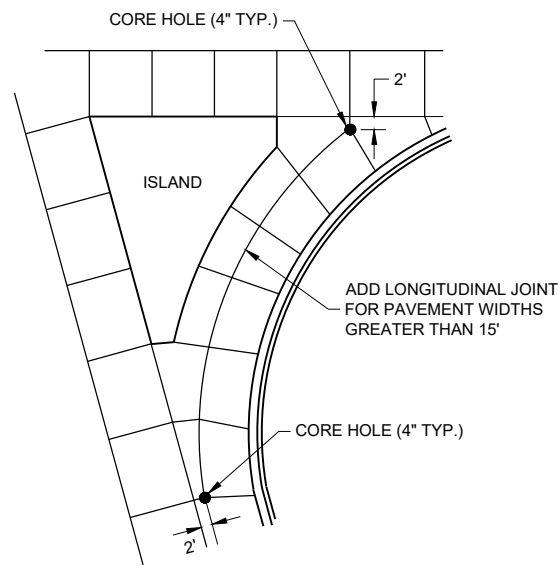
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



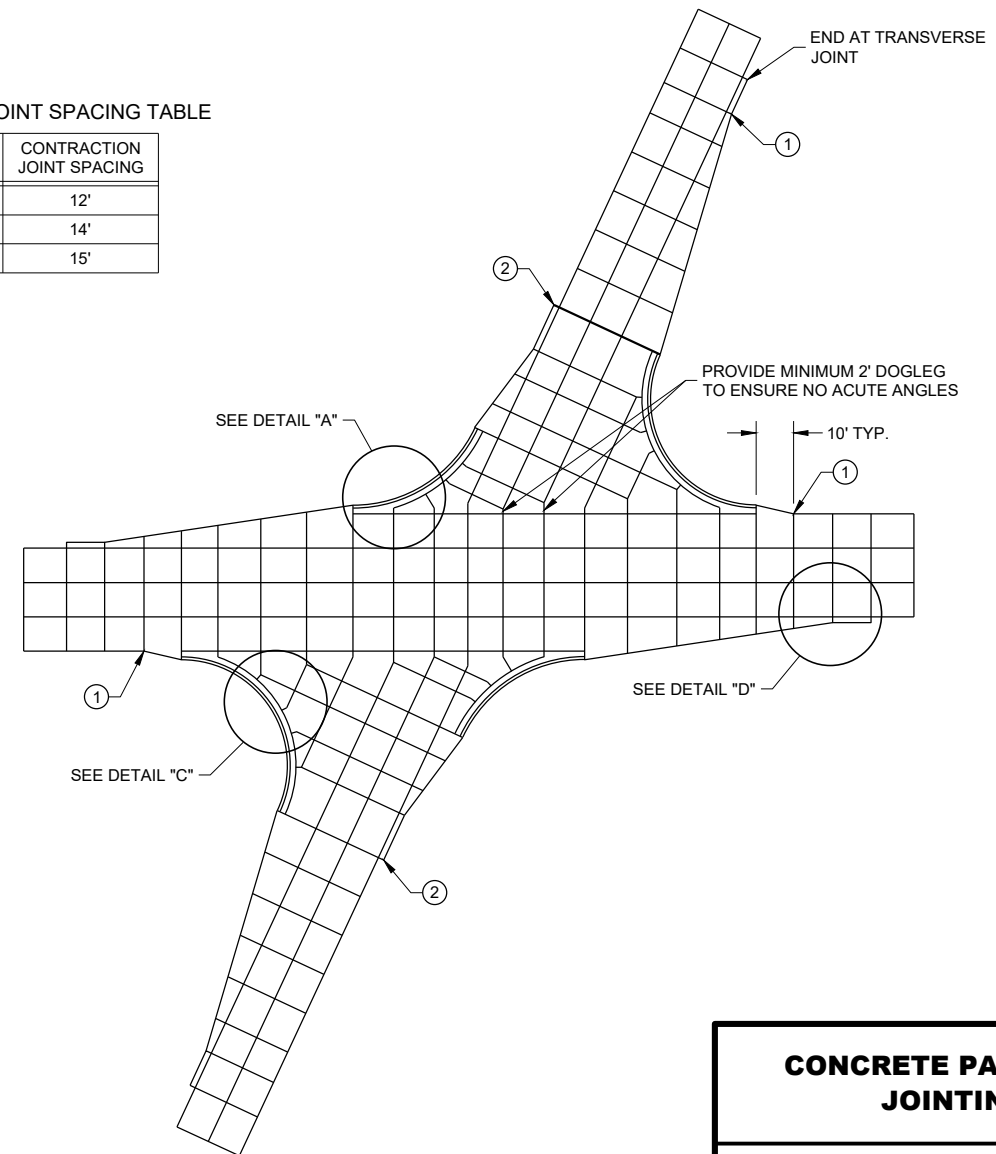
STANDARD INTERSECTION



APPROACH TO MEDIAN



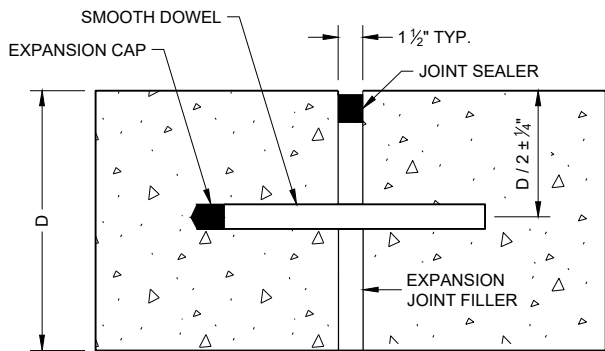
LARGE RIGHT TURN



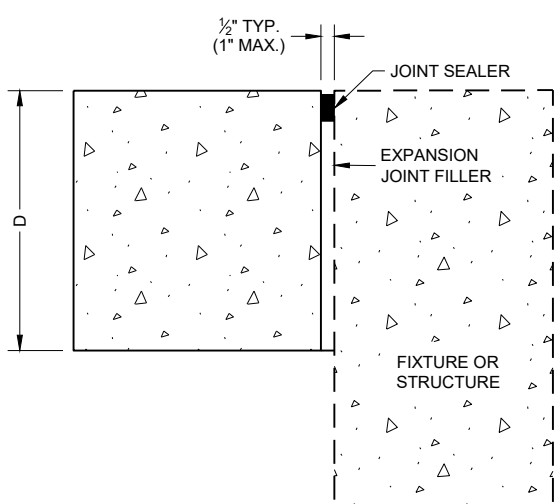
SKewed INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

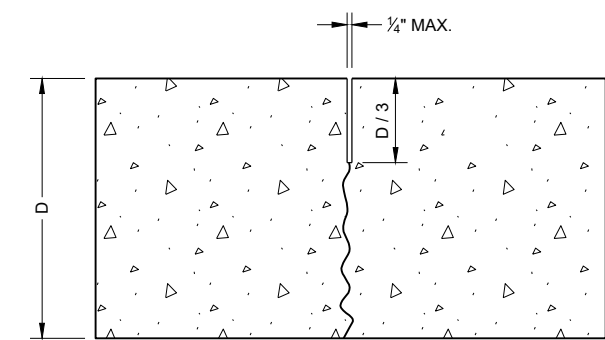


DOWELED TRANSVERSE ①

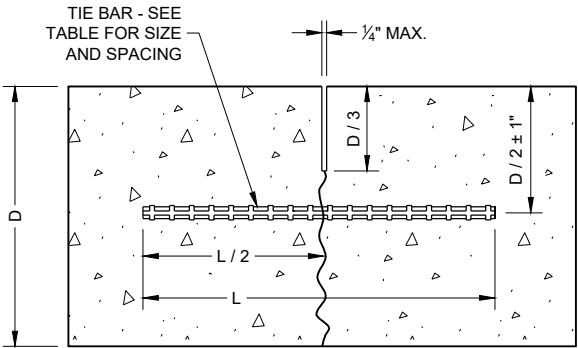


UNTIED - LONGITUDINAL

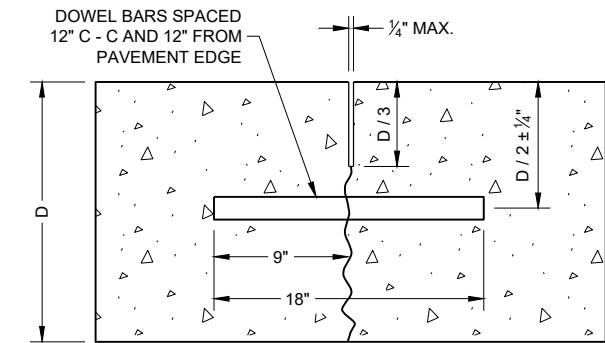
EXPANSION JOINTS



UNDOWELED TRANSVERSE



TIED LONGITUDINAL



DOWELED TRANSVERSE

CONTRACTION JOINTS ②

TIE BAR TABLE

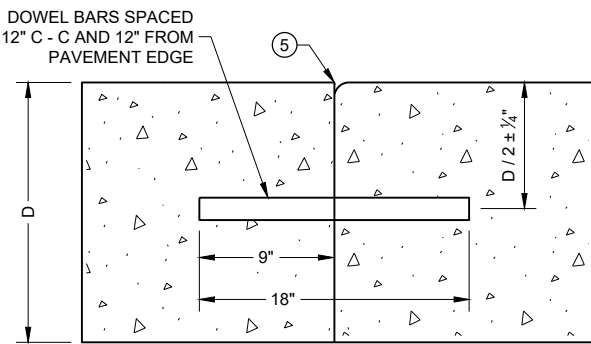
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

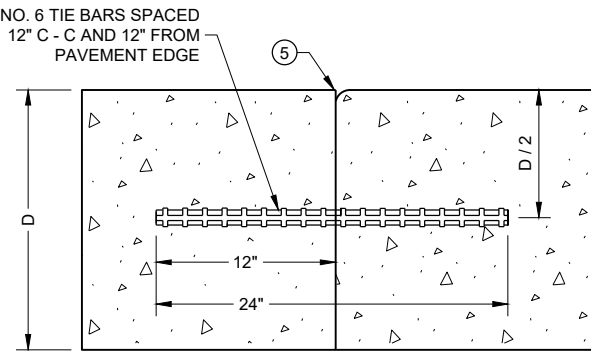
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

- ① USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
- ② SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
- ③ LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
- ④ CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
- ⑤ IF JOINT IS FORMED, PROVIDE A 1/4" RADIUS.
- ⑥ ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

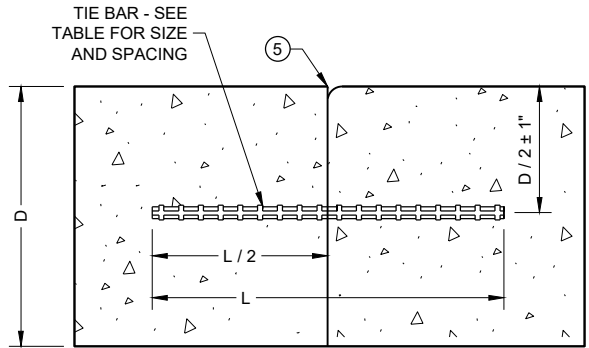


DOWELED TRANSVERSE ③

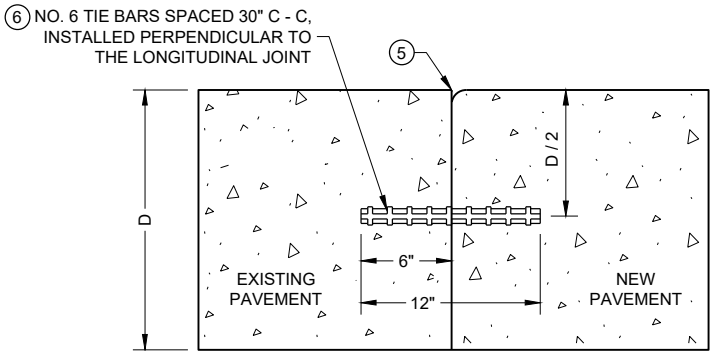


TIED TRANSVERSE ③
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)

CONSTRUCTION JOINTS ④



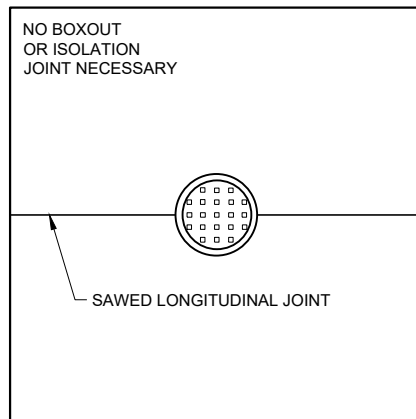
TIED LONGITUDINAL



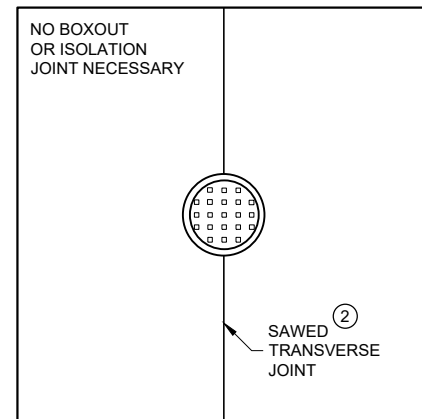
TIED LONGITUDINAL TO EXISTING

**CONCRETE PAVEMENT
JOINT TYPES**

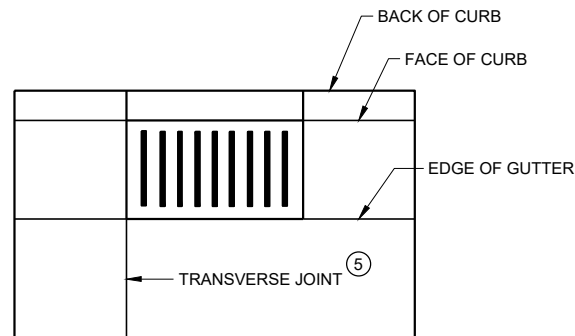
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



**MANHOLE WITH
LONGITUDINAL JOINT**



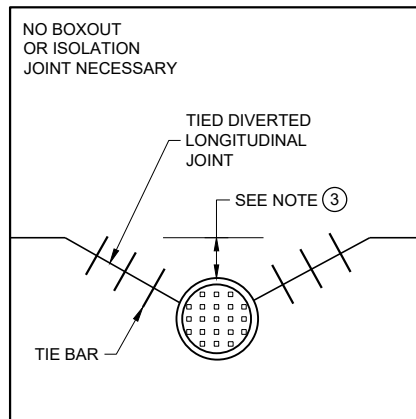
**MANHOLE WITH
TRANSVERSE JOINT**



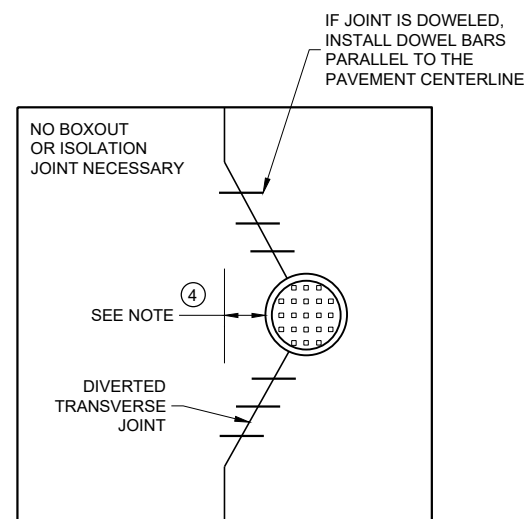
**INLET WITH
TRANSVERSE JOINT**

GENERAL NOTES

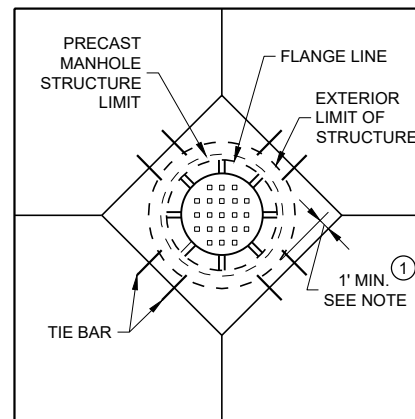
- ① USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- ② ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- ③ IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- ④ IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- ⑤ ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



**MANHOLE WITH DIVERTED
LONGITUDINAL CONTRACTION JOINT**



**MANHOLE WITH DIVERTED
TRANSVERSE CONTRACTION JOINT**



**DIAGONAL MANHOLE BOXOUT
FOR CONSTRUCTION JOINTS**

**CONCRETE PAVEMENT
JOINTING AT UTILITY
FIXTURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR 123

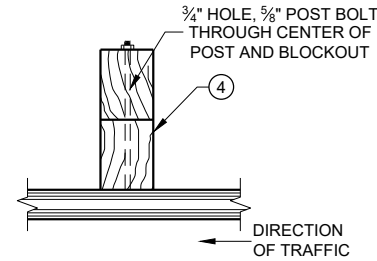
FHWA

GENERAL NOTES

- ① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6"X8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS. DO NOT MIX STEEL AND WOOD POSTS IN A SINGLE INSTALLATION.
- ② USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGE SPELTER COATING ON GALVANIZED POSTS.
- ③ INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ④ USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.
- ⑤ IF THE DISTANCE FROM BACK OF POST TO SHOULDER HIGHE POINT IS LESS THAN 2 FEET, INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).
- ⑥ IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCHES IN DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AND INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT ADEQUATELY.
- ⑦ WHEN USING STEEL POSTS AND WOOD BLOCKOUTS, INSTALL FOUR 16d GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

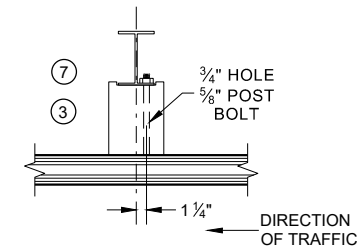
INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



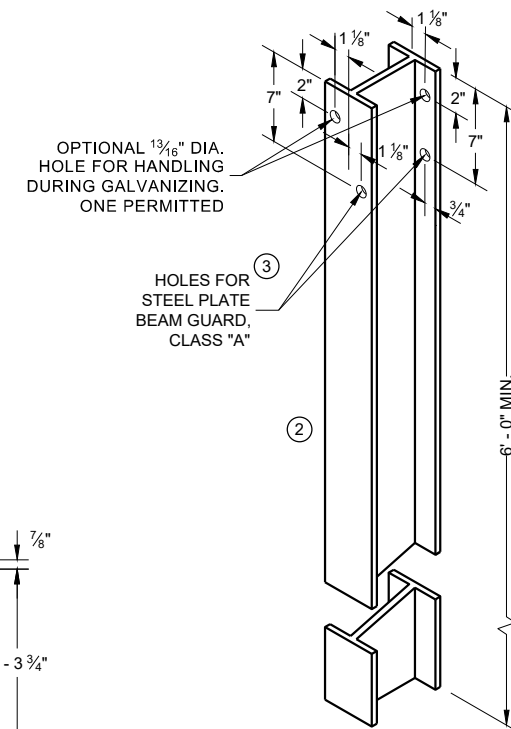
PLAN VIEW

**WOOD POST, BLOCKOUT
AND BEAM**



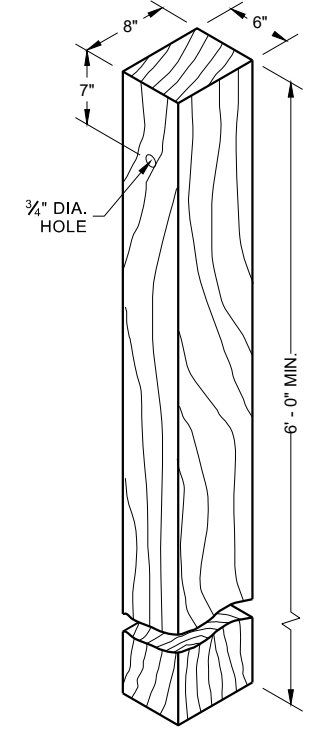
PLAN VIEW

WOOD POST, BLOCKOUT AND BEAM

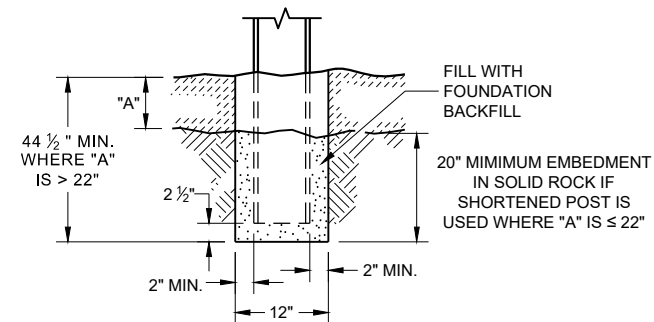


**STEEL POST & HOLE
PUNCHING DETAIL
(W 6 X 9) ①**

ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

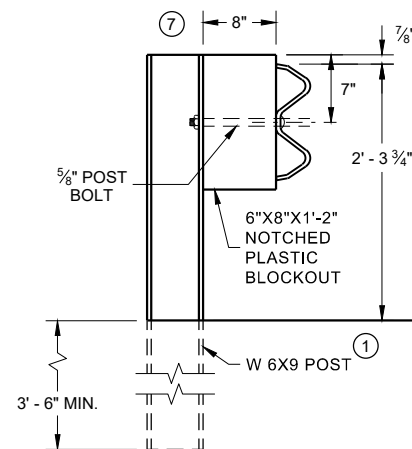


WOOD POST (6" X 8") NOMINAL ⁽¹⁾

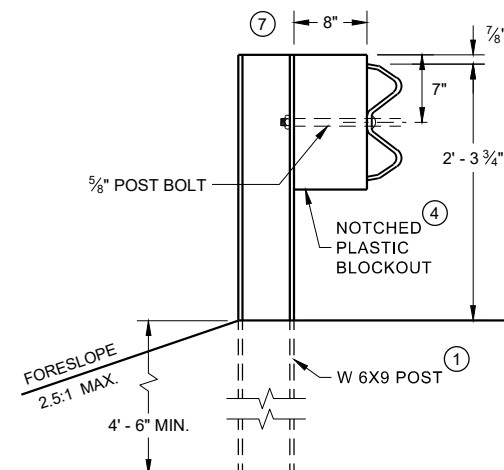


END VIEW

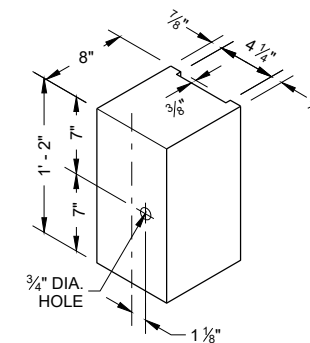
SETTING STEEL OR WOOD POST IN ROCK[®] 6



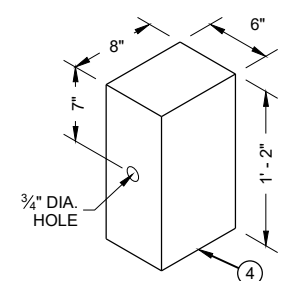
END VIEW
STEEL POST AND NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



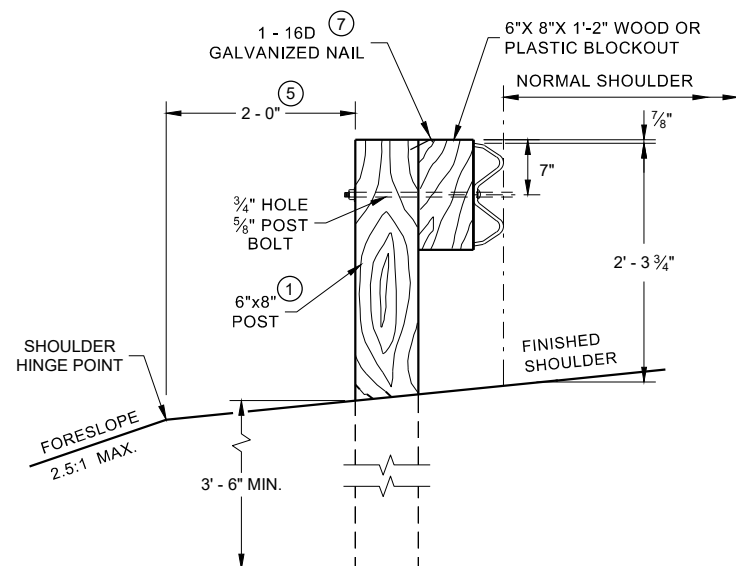
END VIEW
LONGER POST AT HALF POST
SPACING W BEAM (LHW)



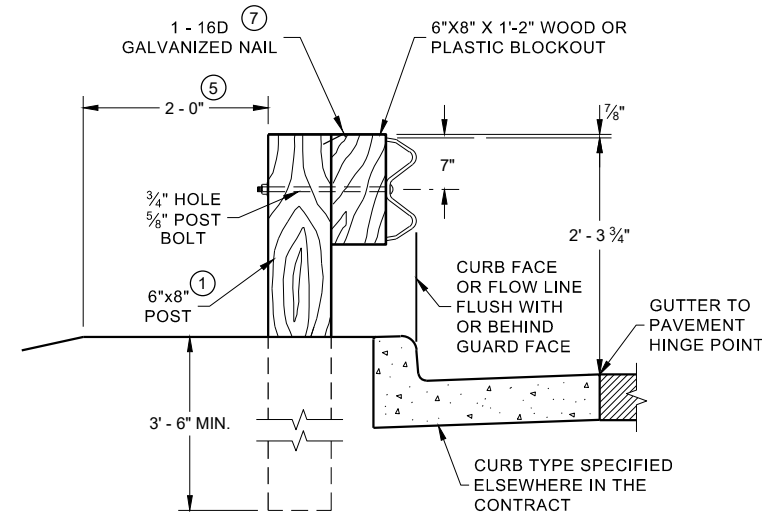
TYPICAL NOTCHED PLASTIC BLOCKOUT FOR STEEL POSTS



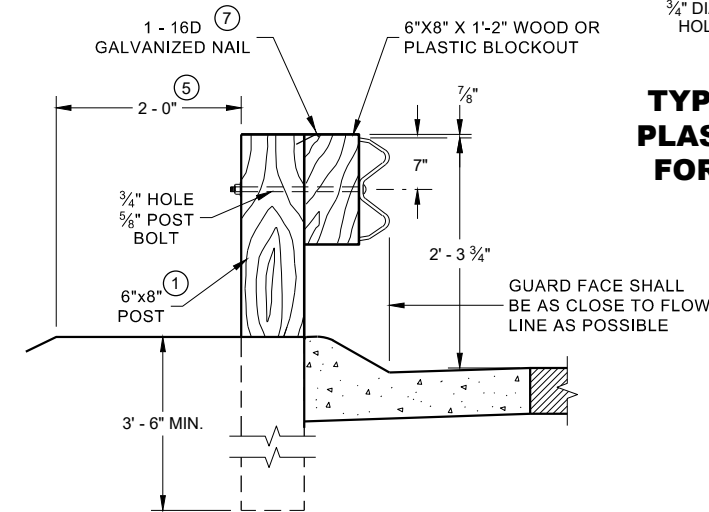
WOOD OR PLASTIC BLOCKOUT FOR WOOD POSTS



END VIEW
LOCATED ALONG A ROADWAY
SHOULDER STANDARD INSTALLATION



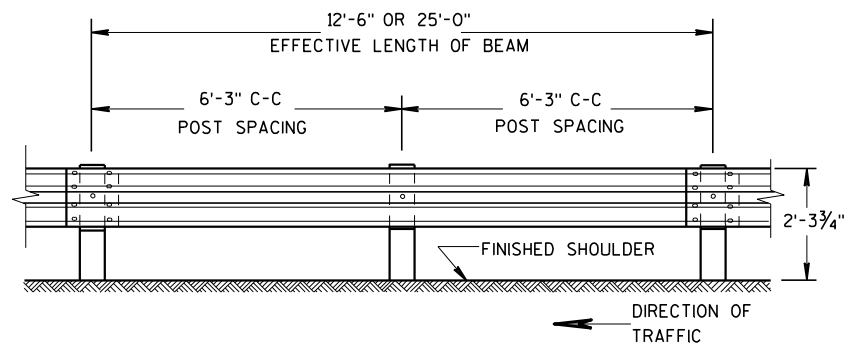
END VIEW
LOCATED ALONG A CURBED ROADWAY



**END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY**

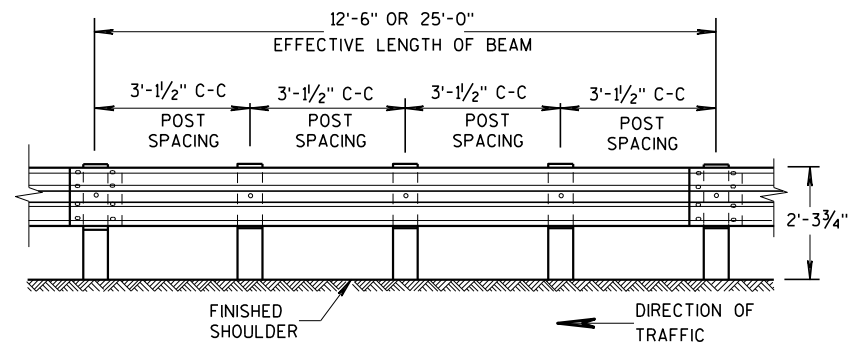
STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION AND ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 124



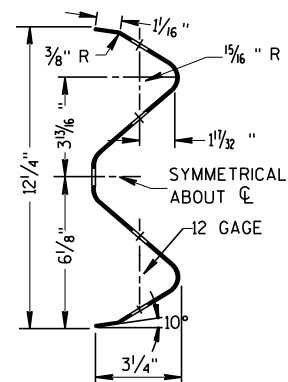
FRONT VIEW

POST SPACING STANDARD INSTALLATION

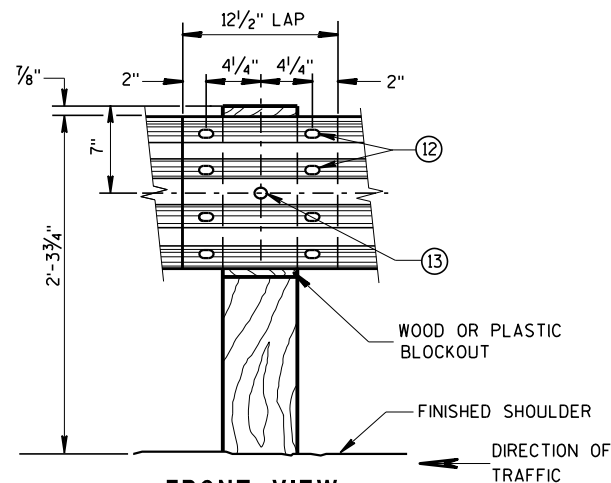


FRONT VIEW

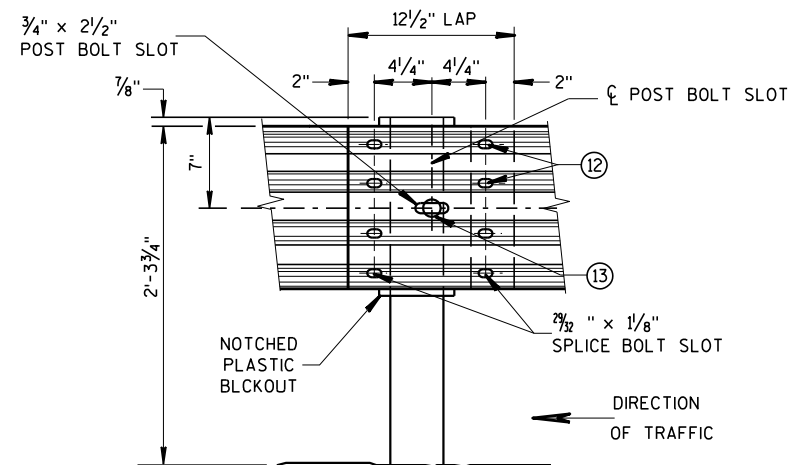
POST SPACING FOR LONGER POST
AT HALF POST SPACING W BEAM (LHW)



SECTION THRU W BEAM



FRONT VIEW
BEAM SPLICE AT WOOD POST
AND POST MOUNTING DETAIL

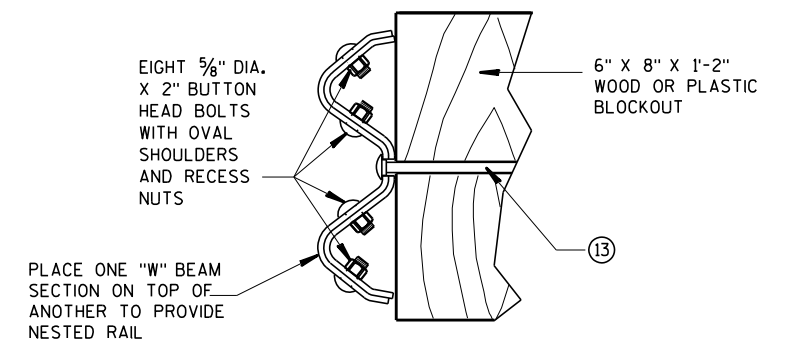


FRONT VIEW
BEAM SPLICE AT STEEL POST
TYPICAL SPLICING DETAILS
OF STEEL PLATE BEAM GUARD

GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

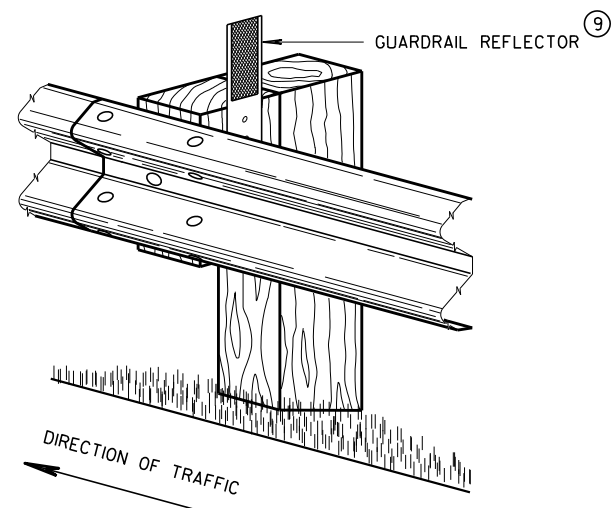
- ⑨ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- ⑫ 8 - 5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- ⑬ 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.



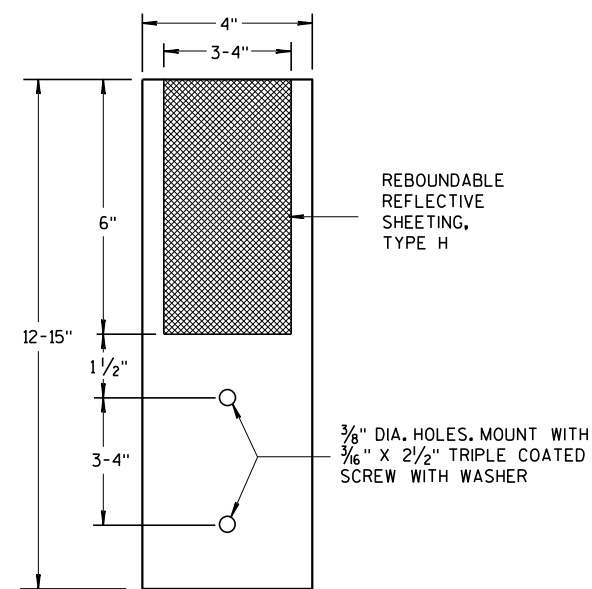
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR
CONSTRUCTING NESTED W BEAM (NW)

* USE DOUBLE SIDED WHITE GUARDRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



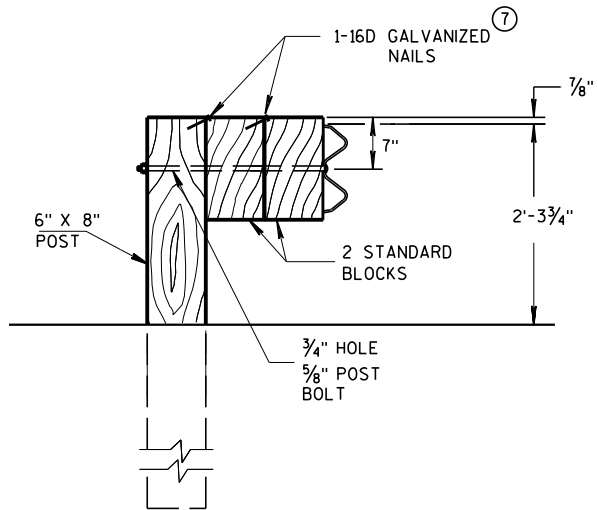
4" X 12" GUARDRAIL REFLECTOR DETAIL
AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

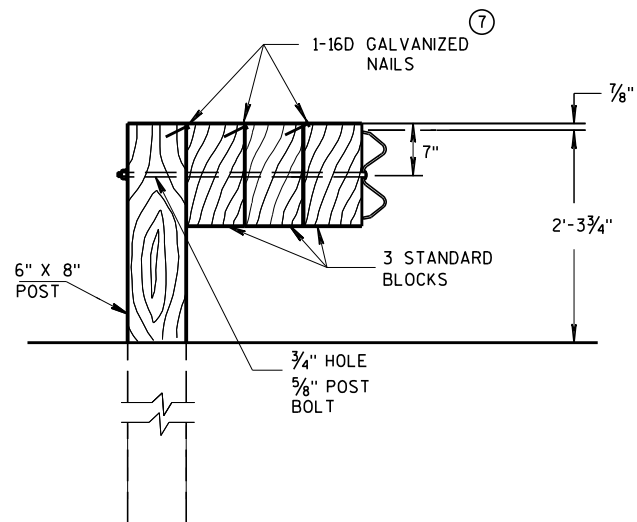
STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCO¹²⁵
DEPARTMENT OF TRANSPORTATION



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS
WITHIN A BARRIER RUN IS UNLIMITED

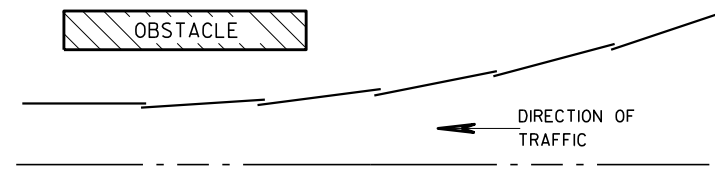


DETAIL FOR TRIPLE BLOCKS

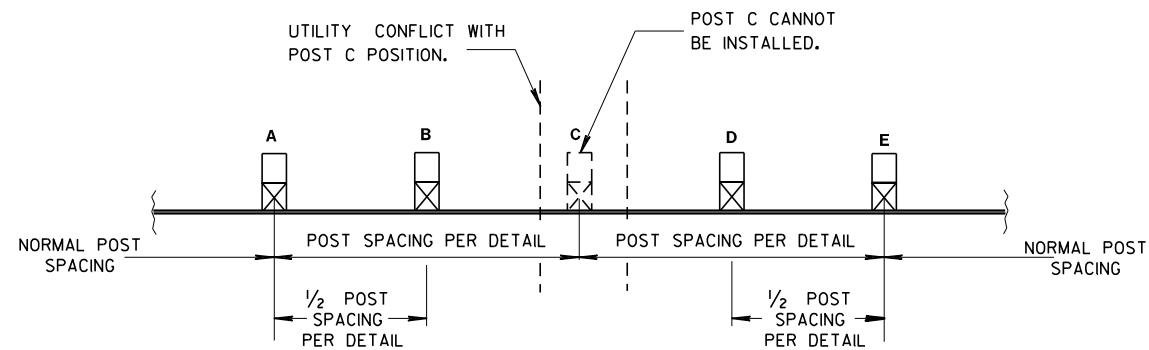
TRIPLE BLOCK DETAIL IS LIMITED TO ONE
LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES
PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND
SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION
DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL

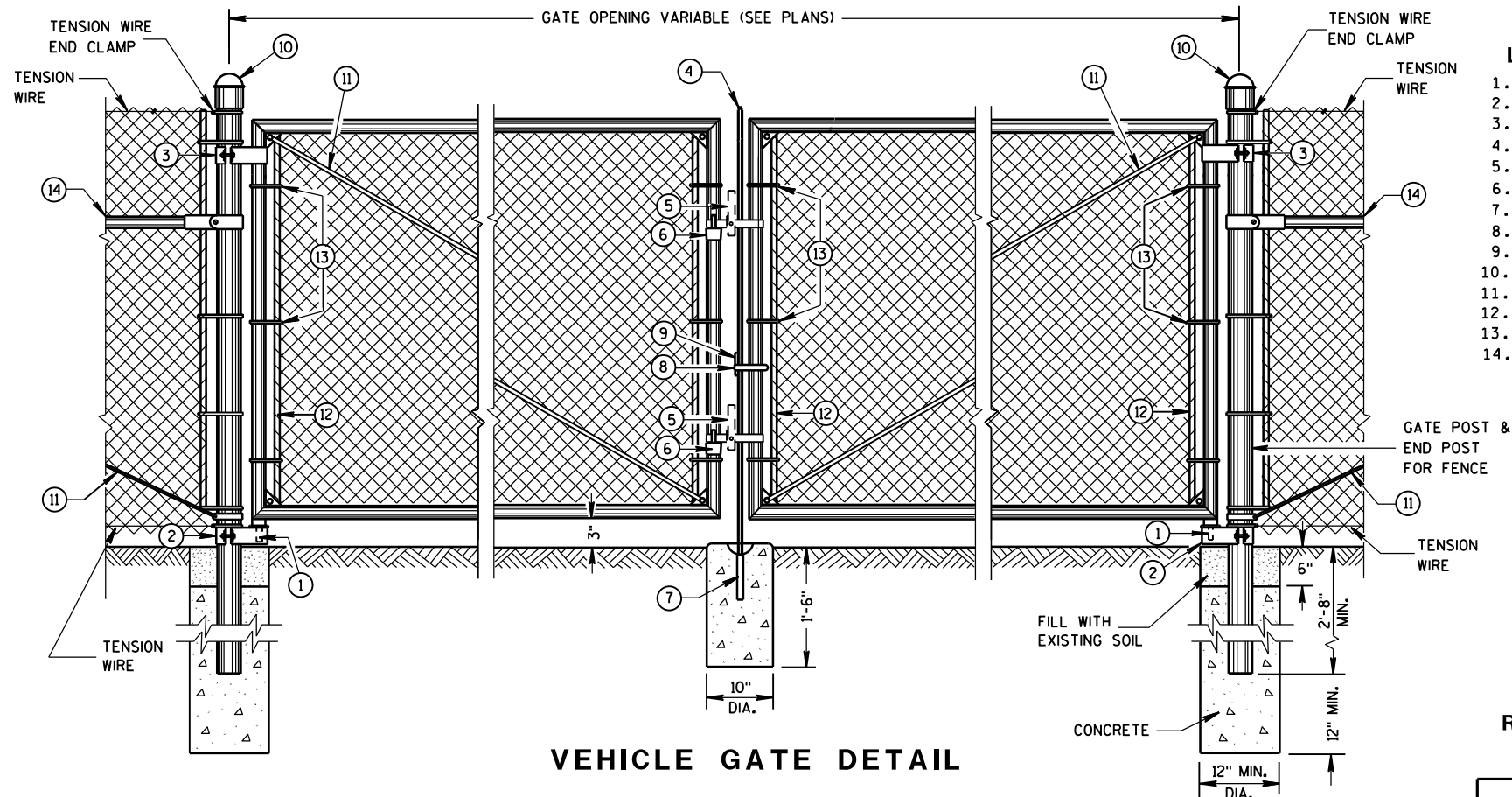


POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

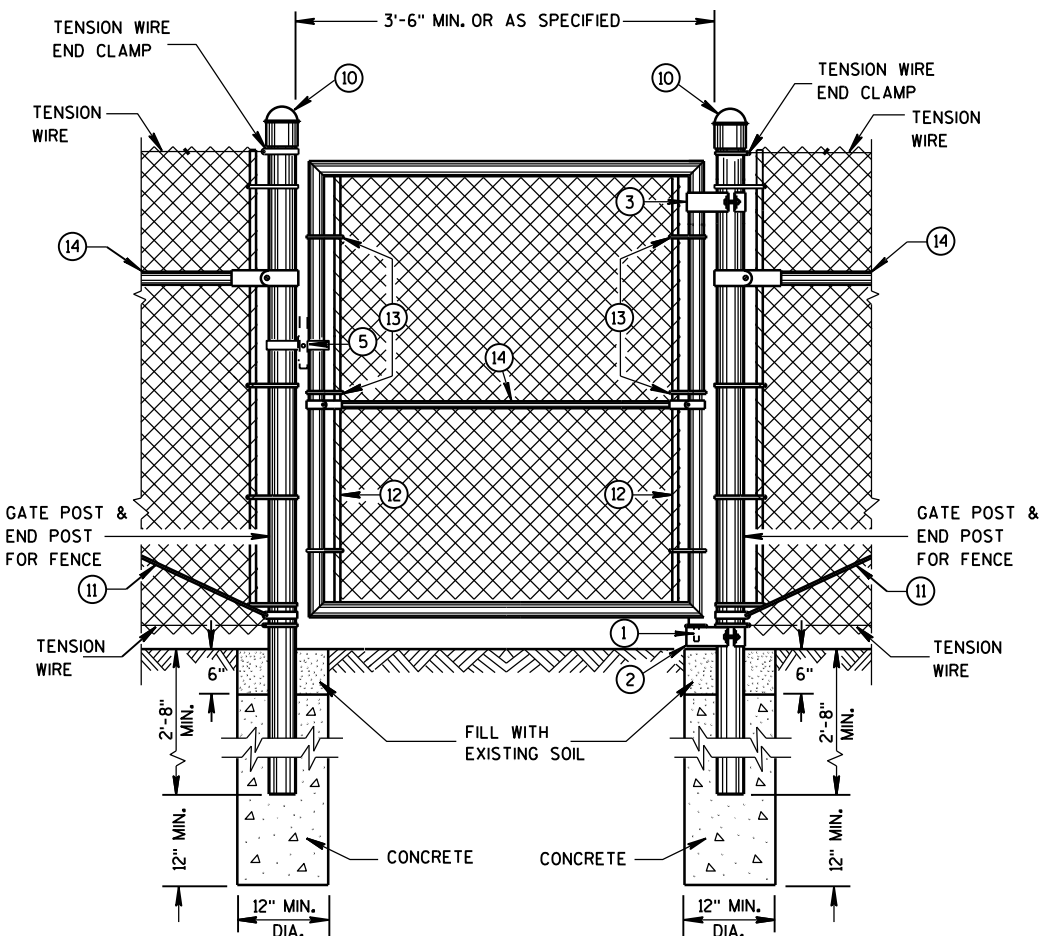
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Rodney Taylor
DATE ROADWAY STANDARDS 126 UNIT SUPERVISOR
FHWA



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

- 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- 3. TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH
- 6. FORK CATCH *
- 7. PLUNGER ROD CATCH
- 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS
- 12. TENSION BAR
- 13. TENSION BANDS
- 14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

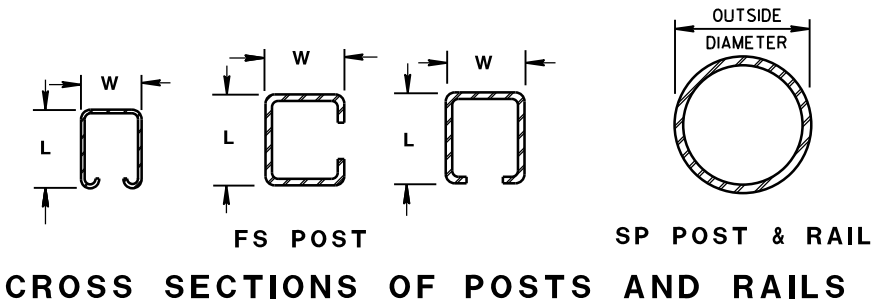
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



ROLLED-FORMED STEEL FENCE POST
(2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST
(1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

REQUIRED POST
SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

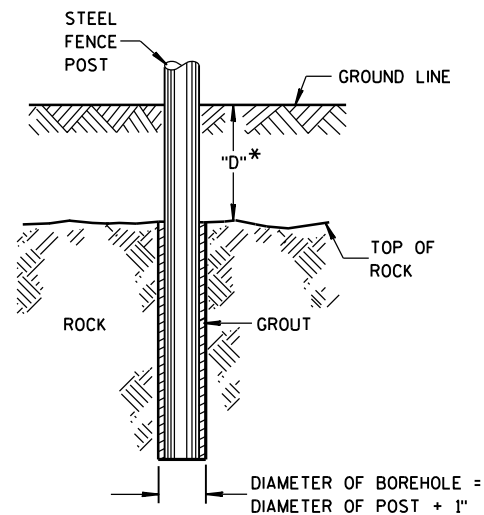
BRACE RAIL TYPES

USE	TYPE
BRACE RAIL	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

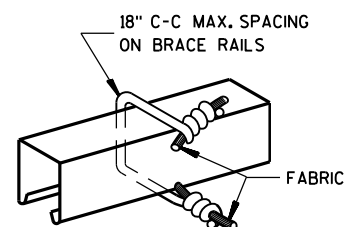
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 127



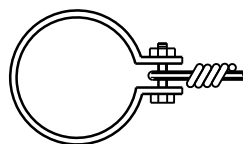
* IF "D" IS LESS THAN 2'-6",
DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST

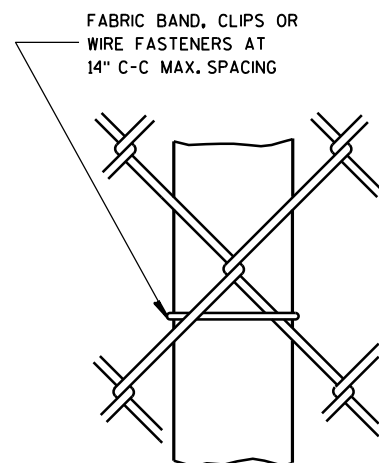


BRACE RAIL FABRIC FASTENER

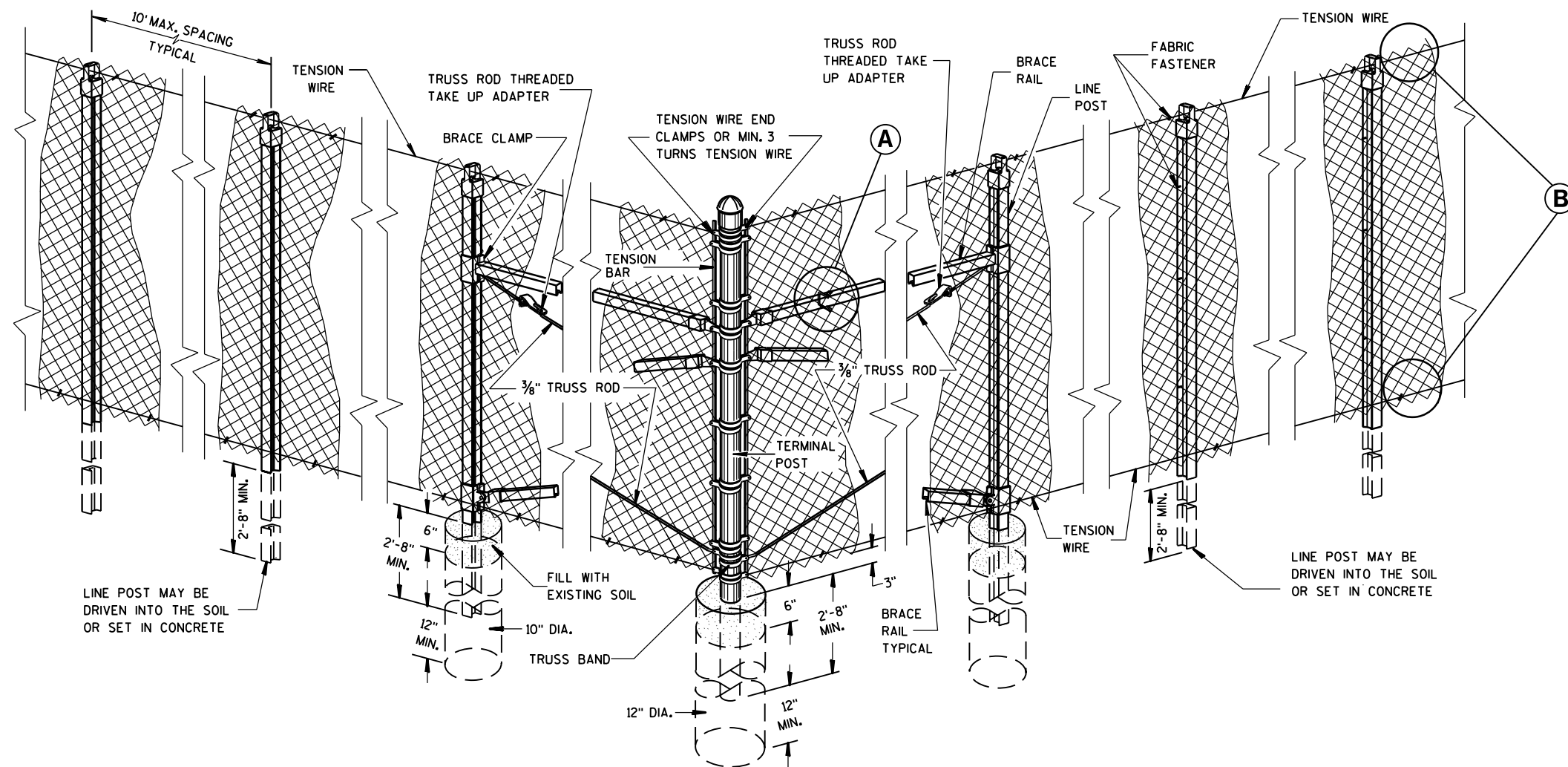
(A)



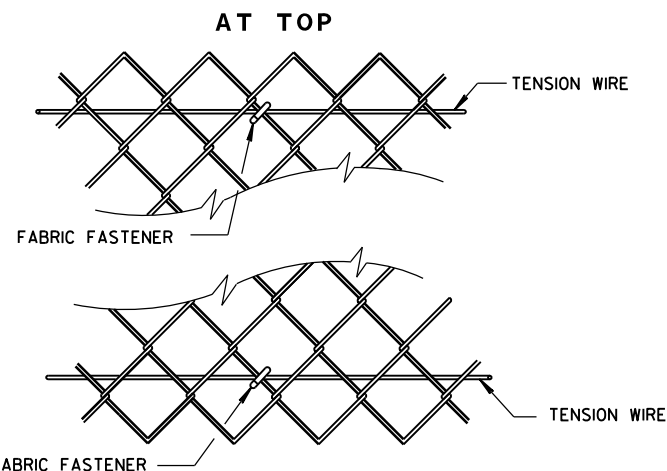
TENSION WIRE END CLAMP



LINE POST FABRIC FASTENER



END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



(B)

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

FEB. 2015

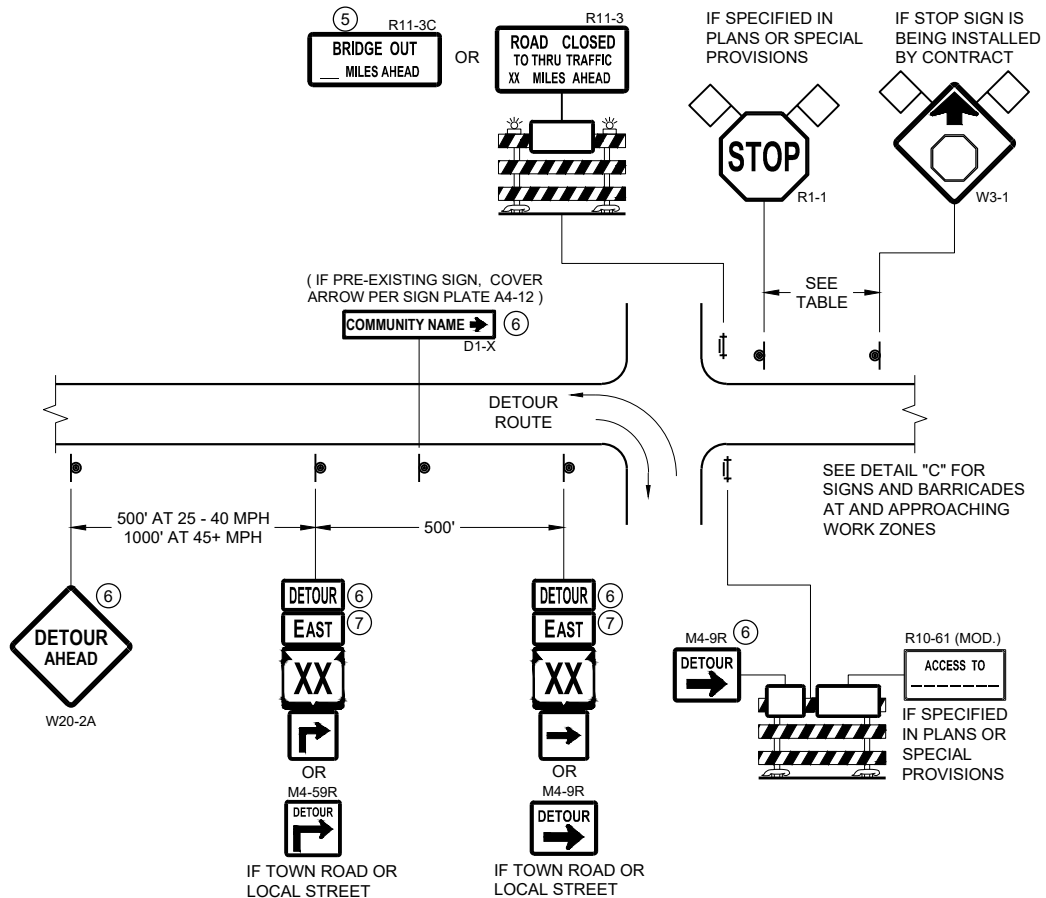
DATE

FHWA

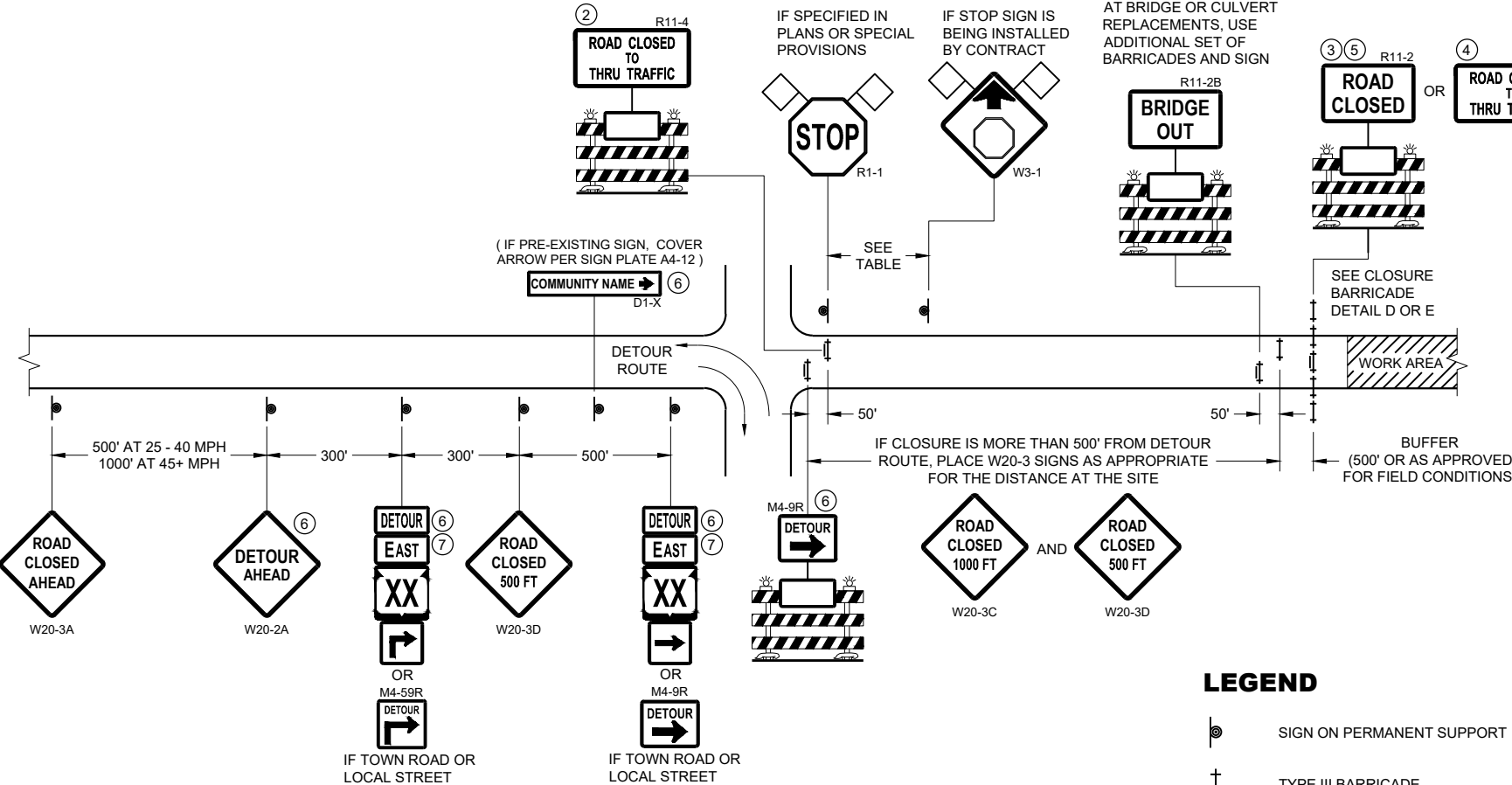
/S/ Jerry H. Zogg

ROADWAY STANDARDS 128

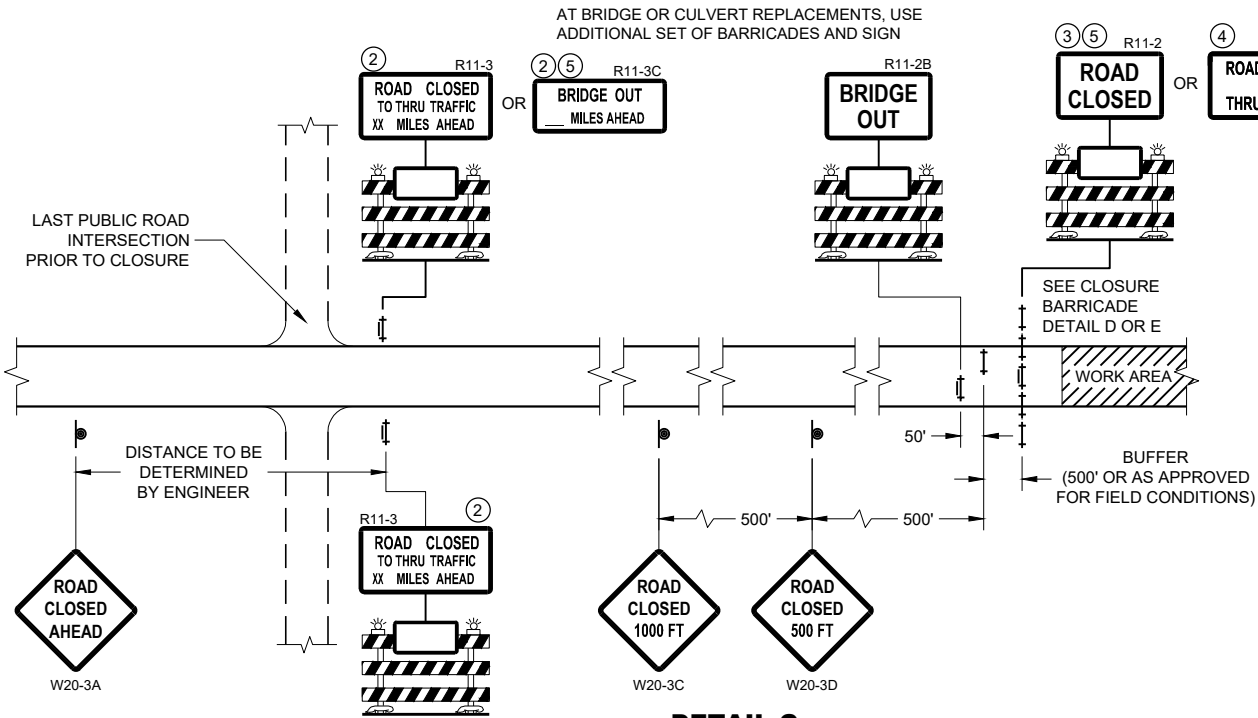
ENGINEER



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

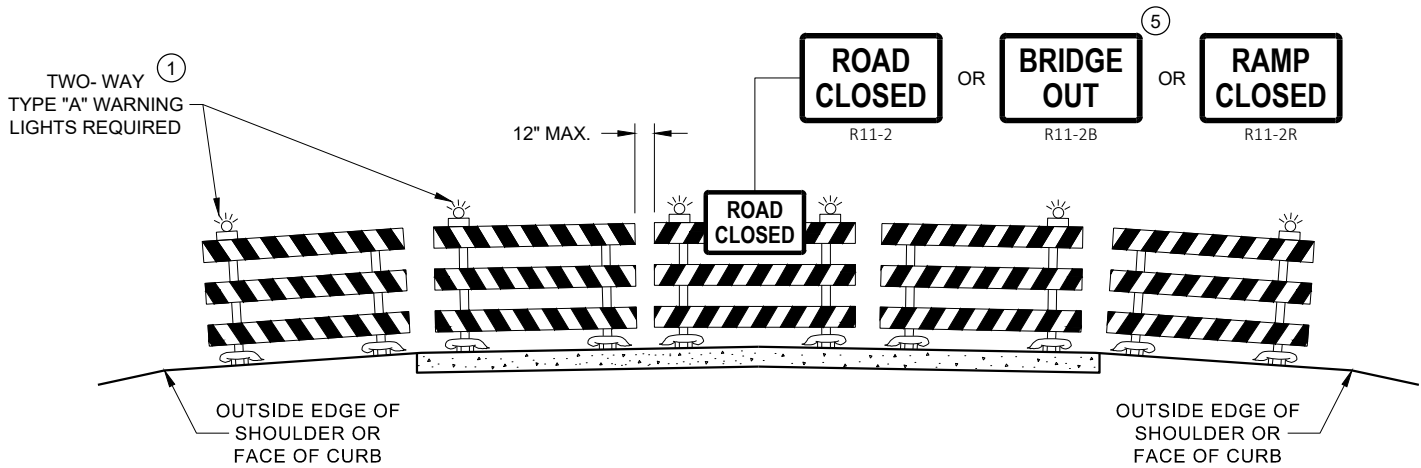
LEGEND

- 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 M1 - 5A
- OR M05 - 1 OR M06 - 1

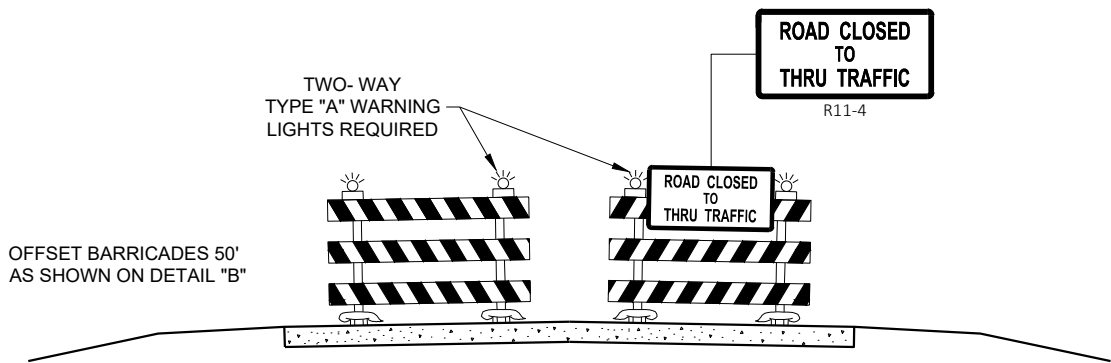
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 129
FHWA



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"

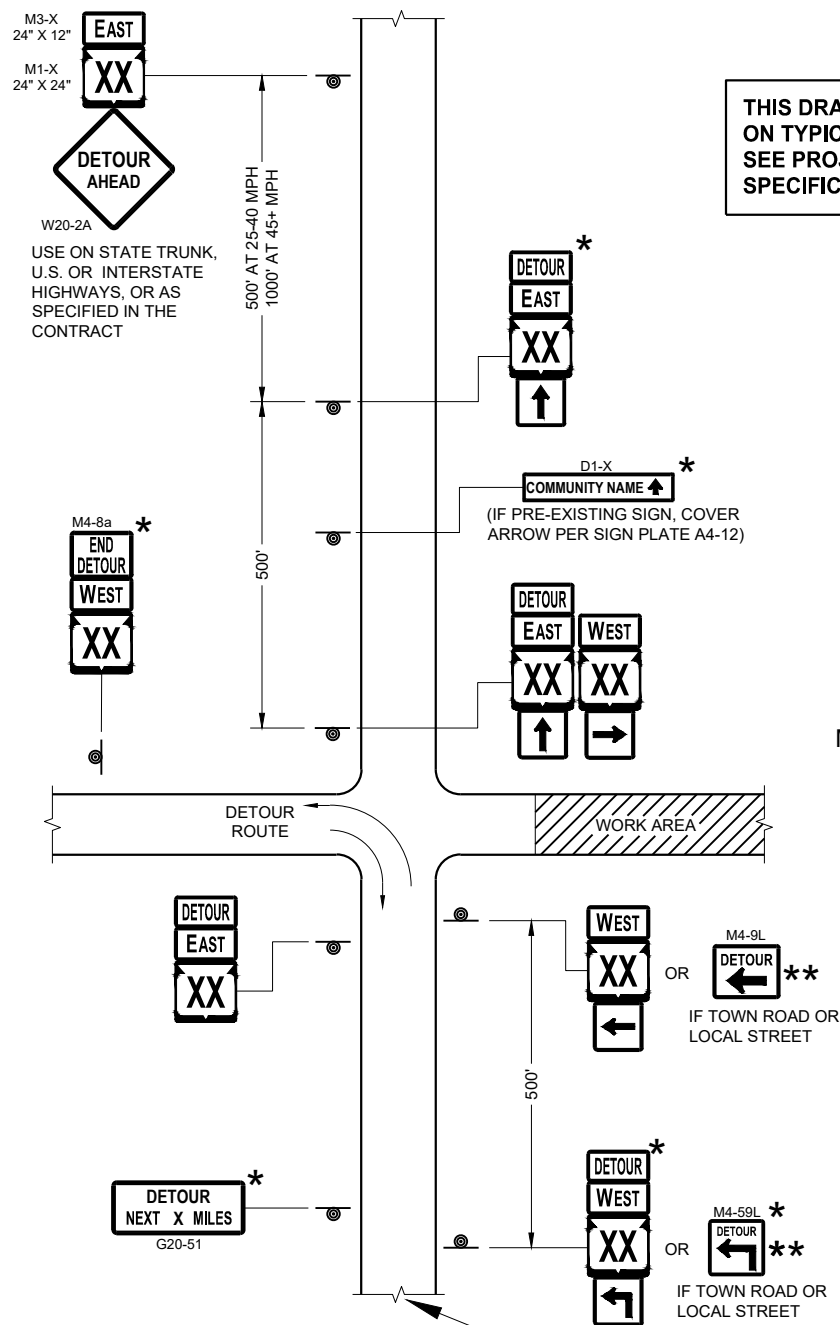
- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- 2 THESE SIGNS 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
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 130

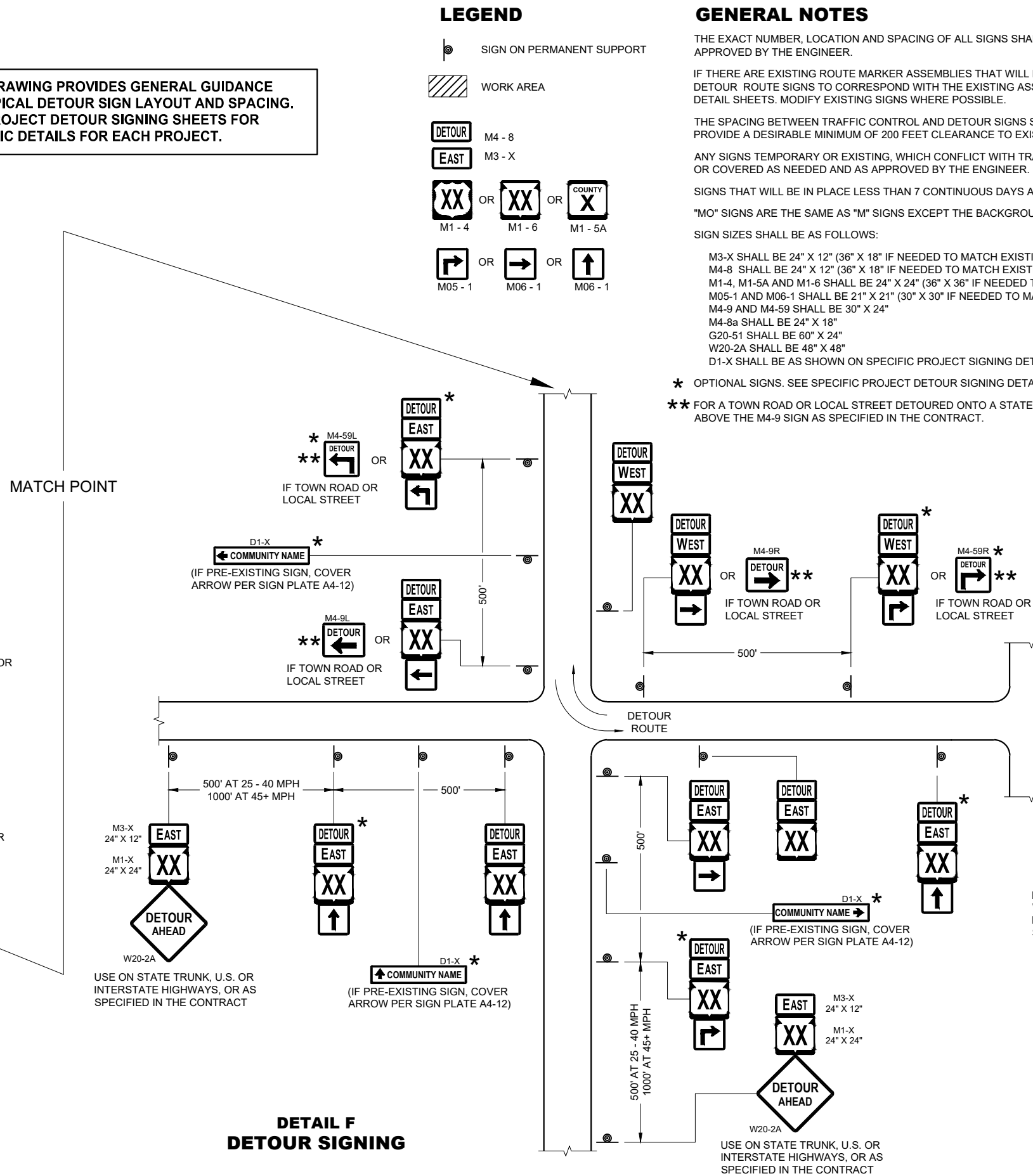
FHWA



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

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

SDD 15C02 - 09c



DETAIL F DETOUR SIGNING

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" (36" X 36" 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.**

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

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

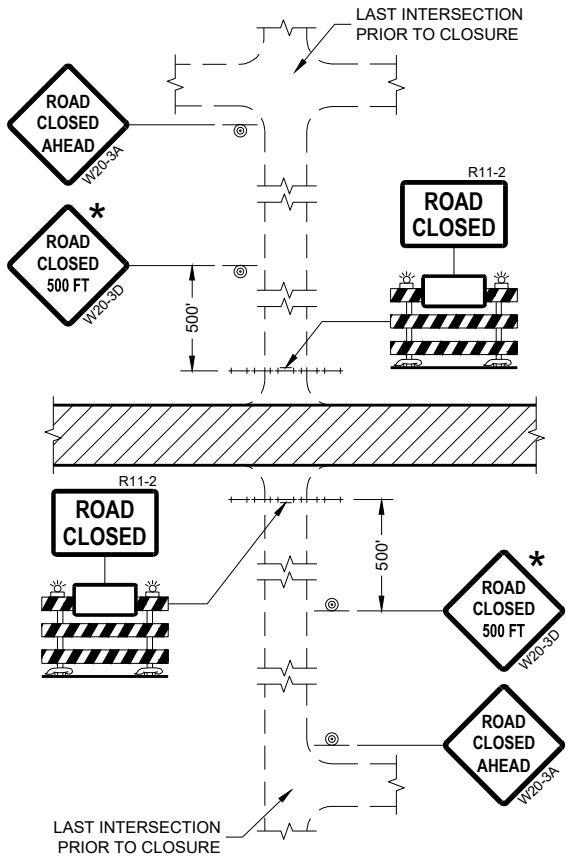
APPROVED
May 2023
 DATE

/S/ Andrew Heidtke
 WORK ZONE ENGINEER

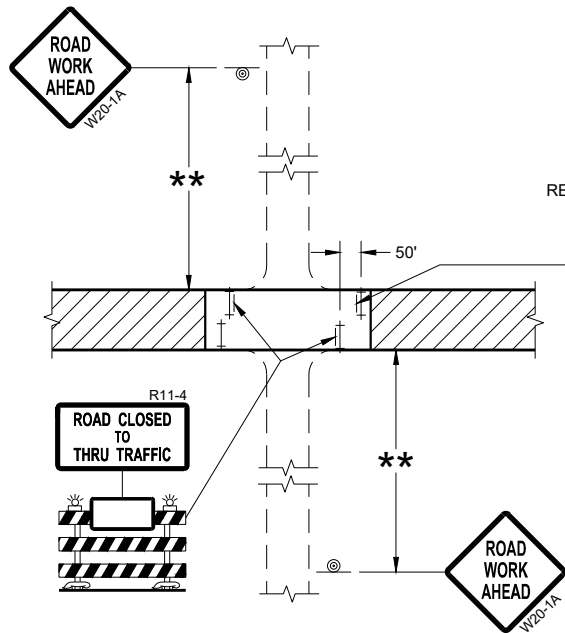
131

FHWA

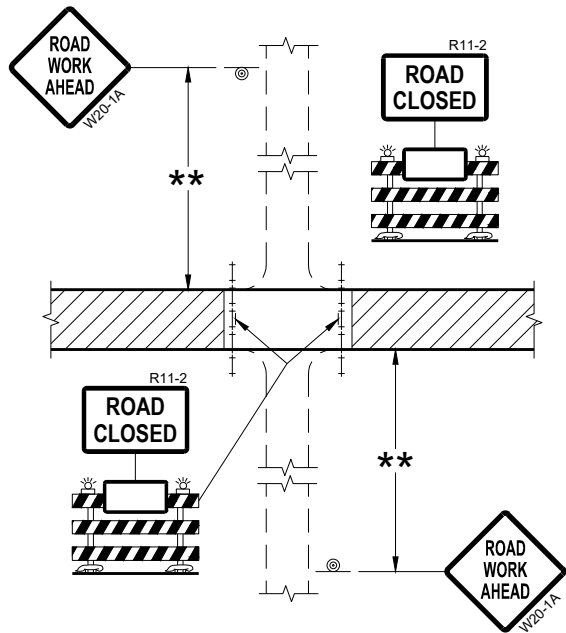
SDD15C02 - 09c



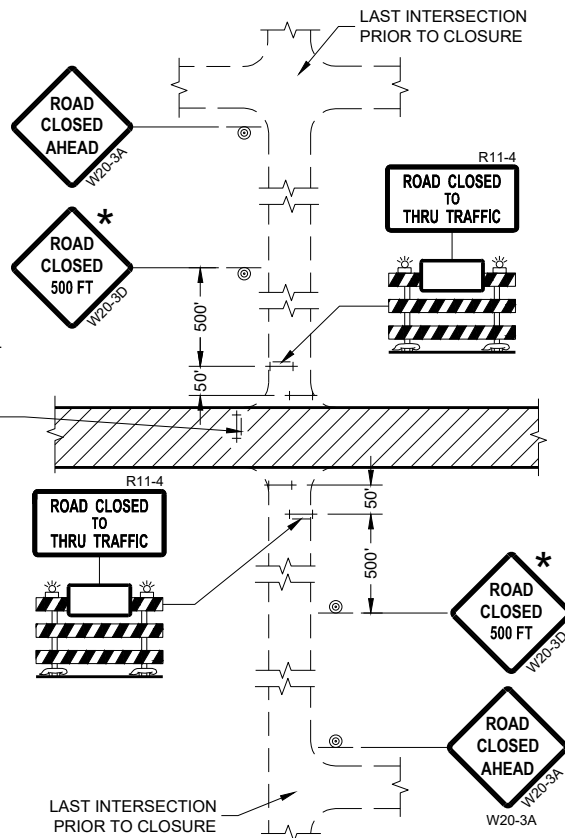
DETAIL 1
(NO ACCESS TO PROJECT)



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



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



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT 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.

LEGEND

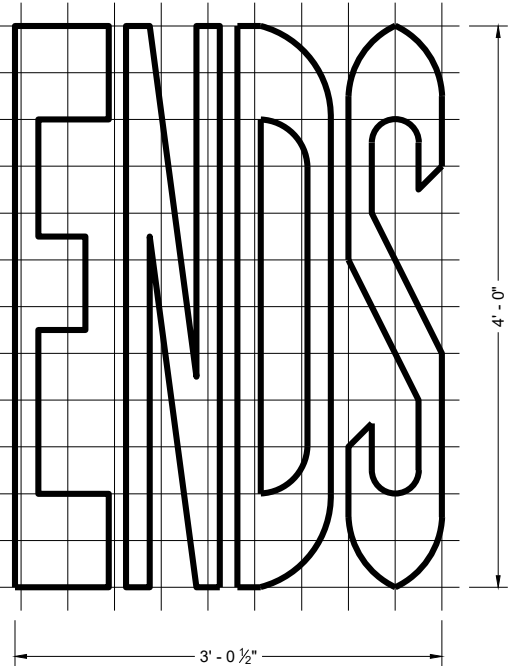
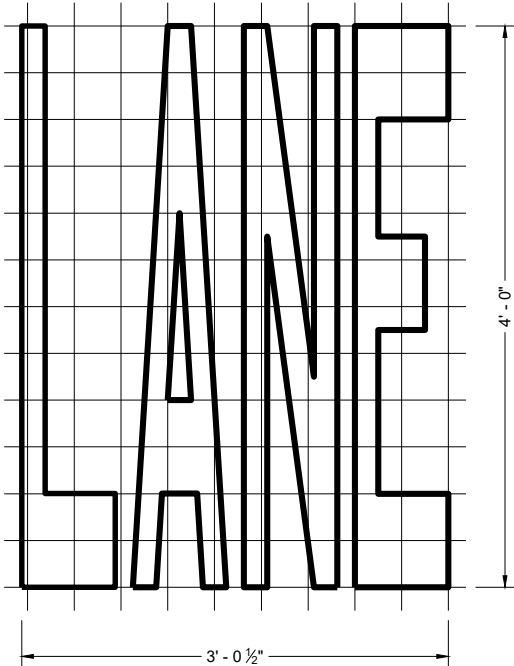
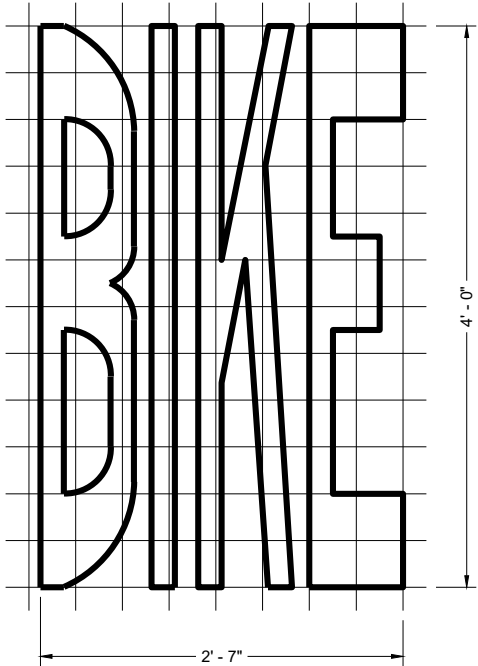
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

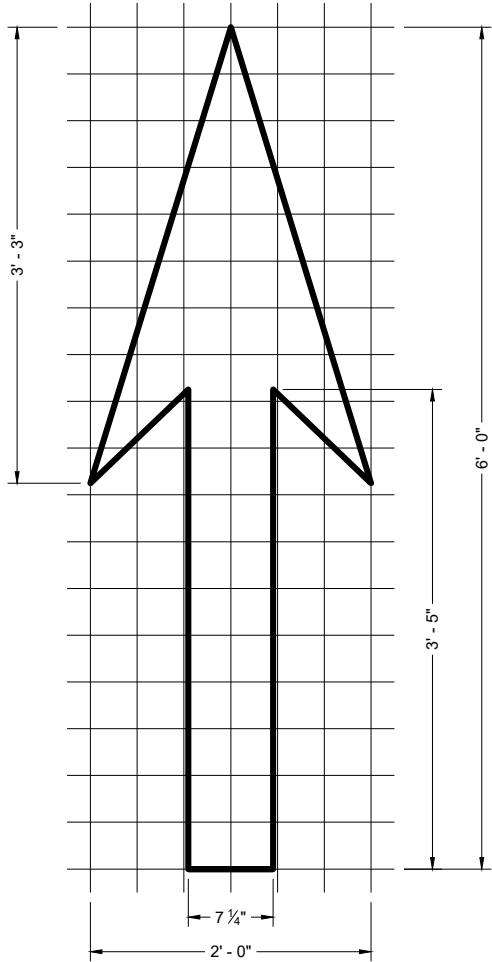
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 132

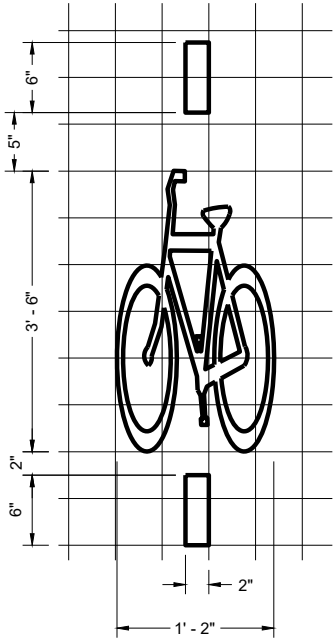
FHWA



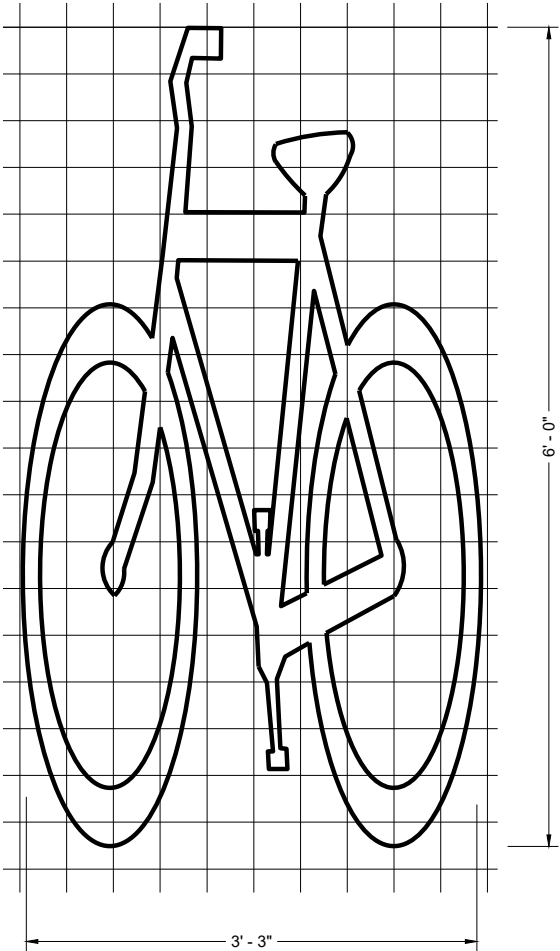
BIKE LANE WORDS



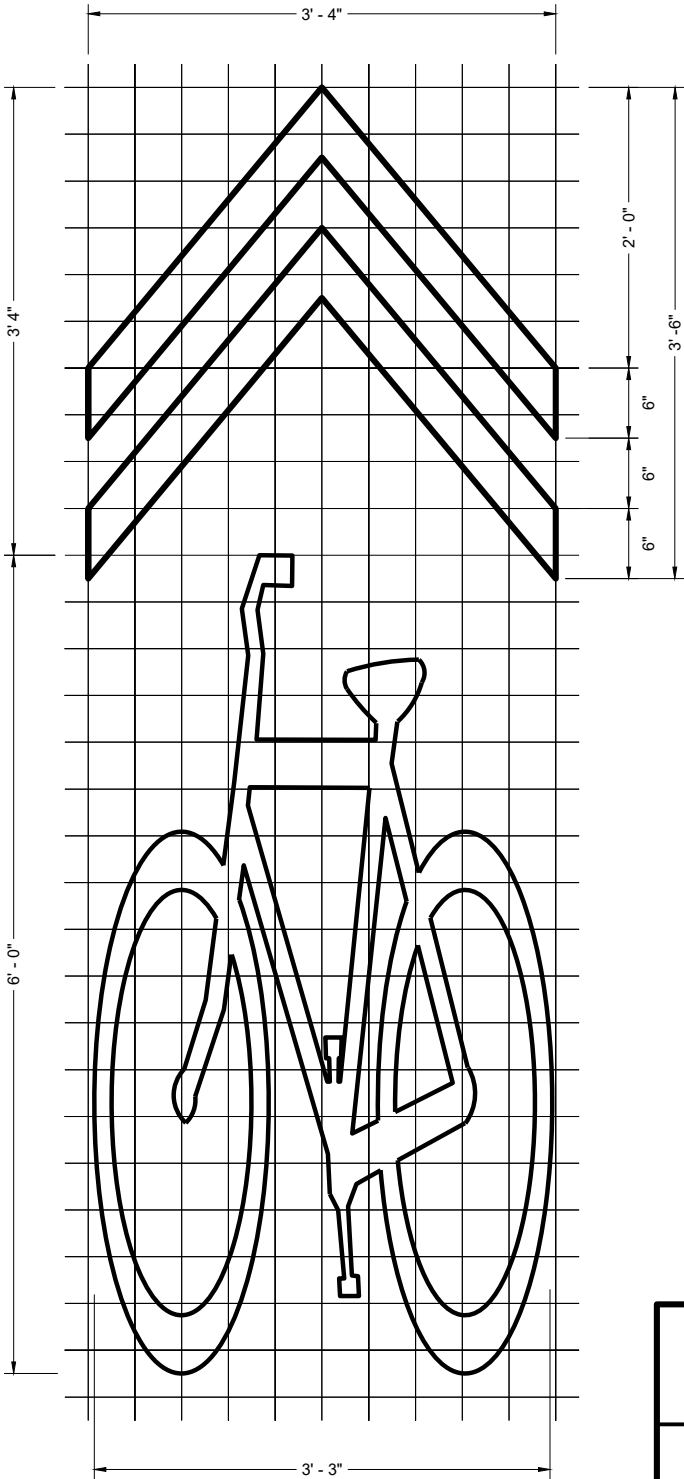
BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

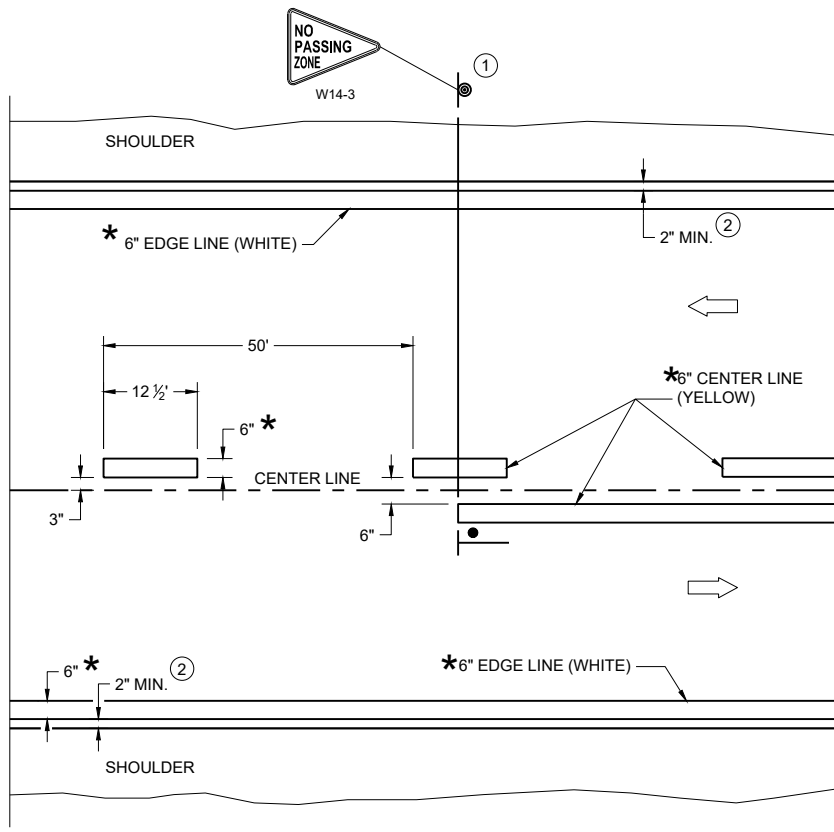


BIKE LANE SYMBOL FOR SHARED LANE

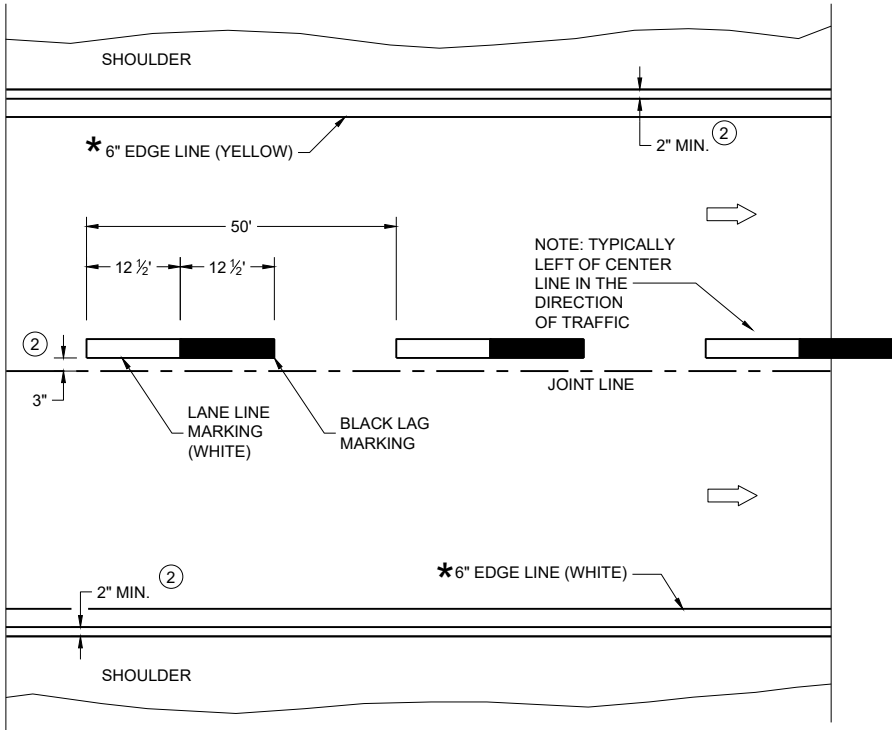
GENERAL NOTES

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

PAVEMENT MARKING FOR BIKE LANES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2024 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA 133	



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

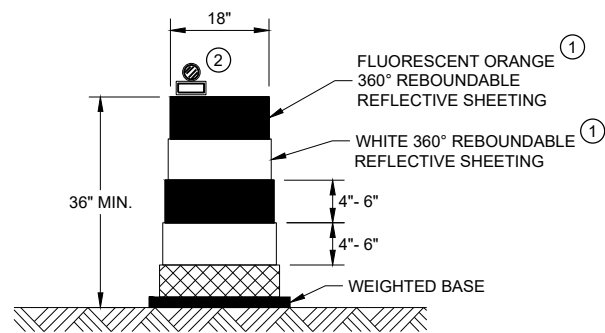
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

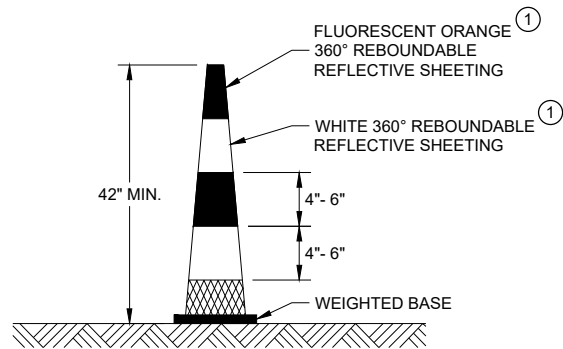
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL PAVEMENT MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver Statewide Pavement Marking Engineer



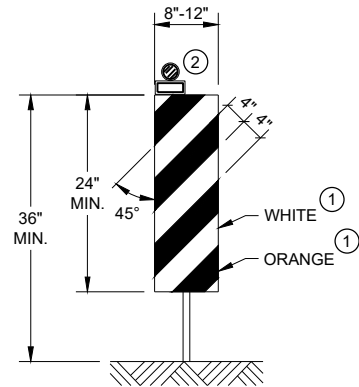
DRUM

BALLAST WIDTHS
RANGE FROM 24"-36"



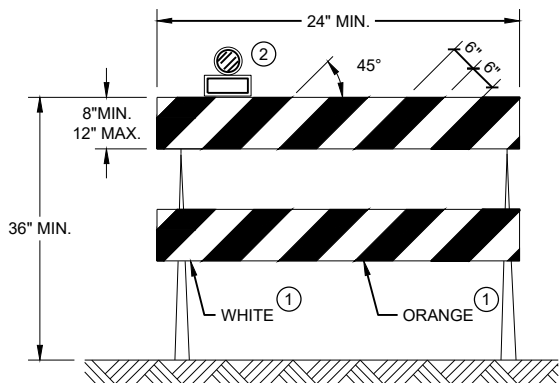
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS
BALLAST WIDTHS
RANGE FROM 14"-20"



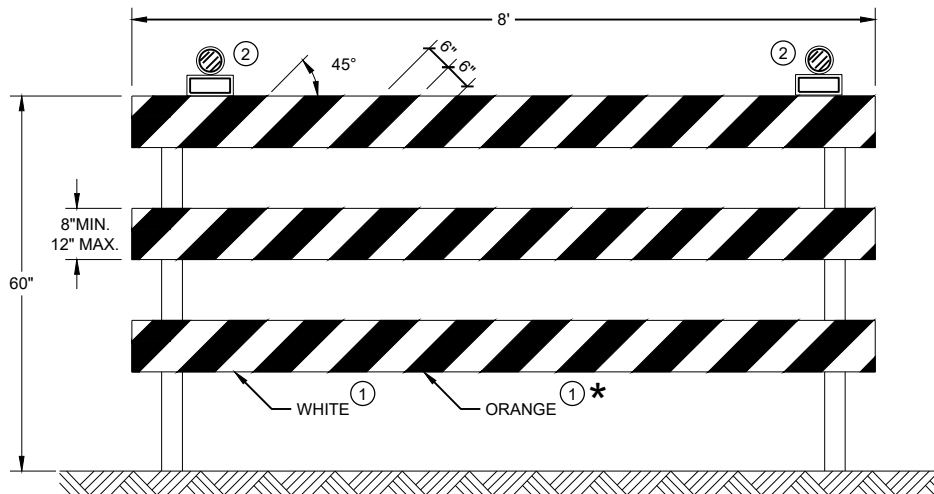
VERTICAL PANEL

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.

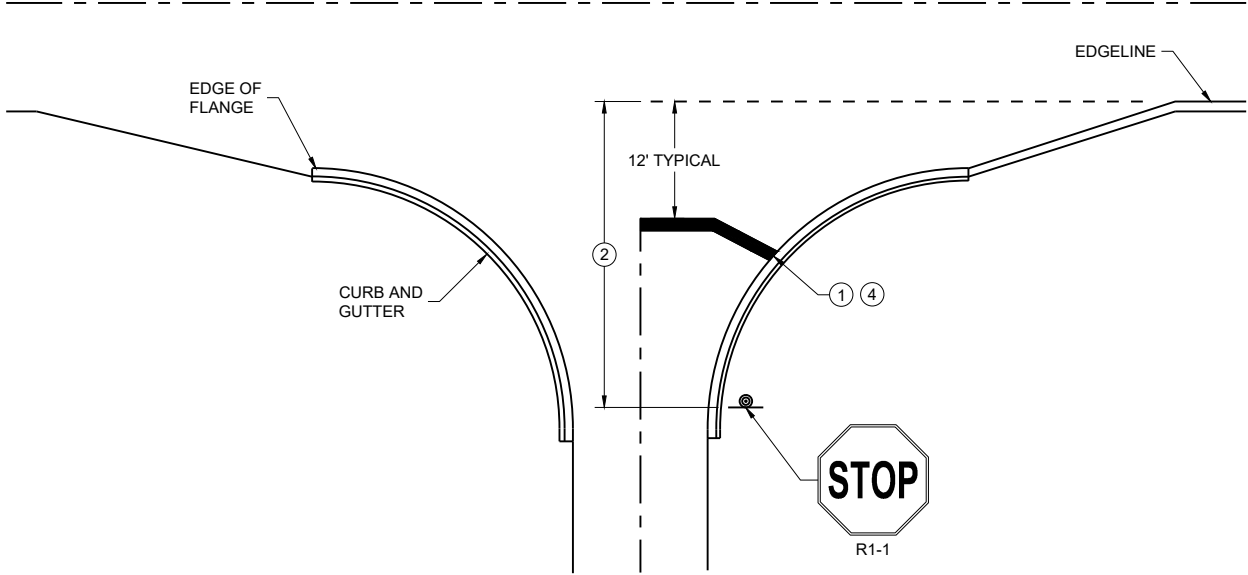
GENERAL NOTES

- 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.

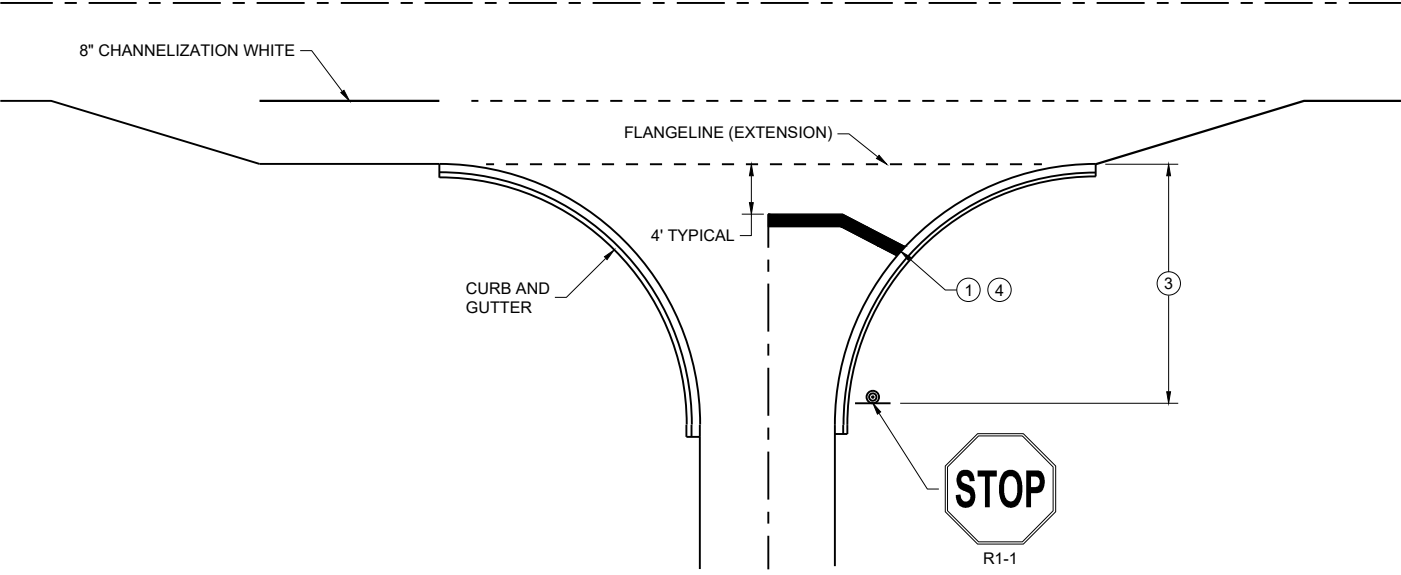
**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

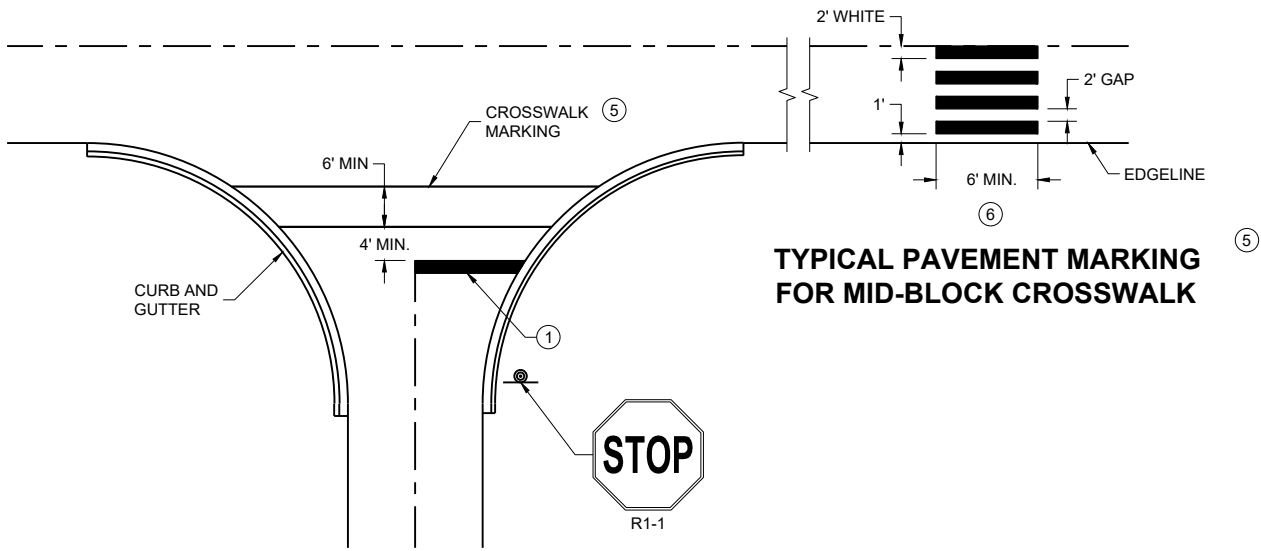
APPROVED
November 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 135
FHWA



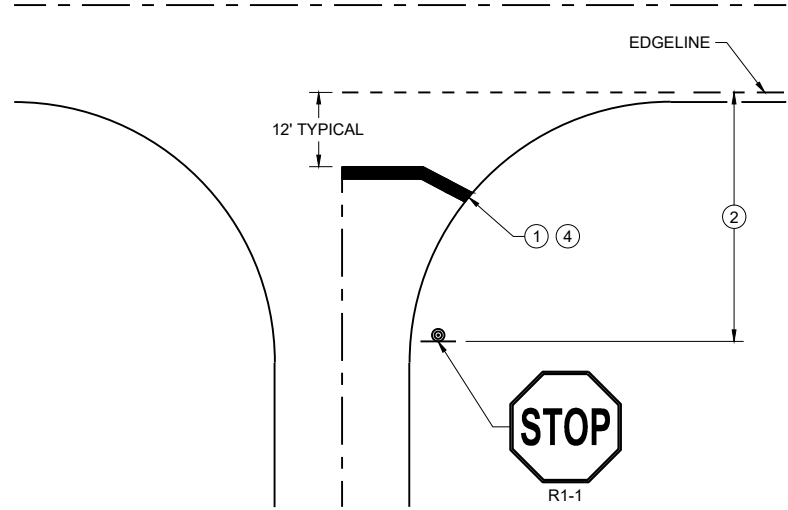
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS 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.

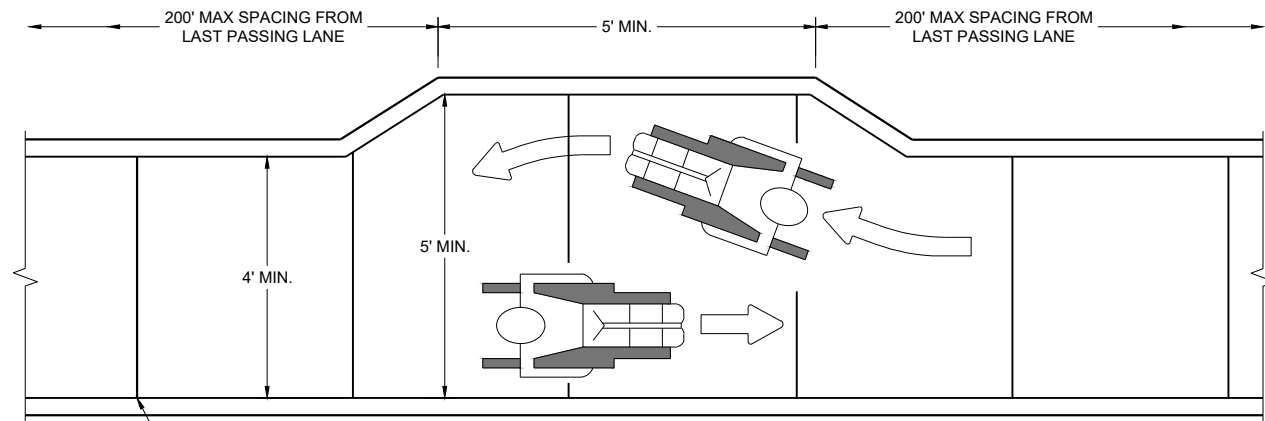
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
- ⑥ POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS

STOP LINE AND CROSSWALK PAVEMENT MARKING

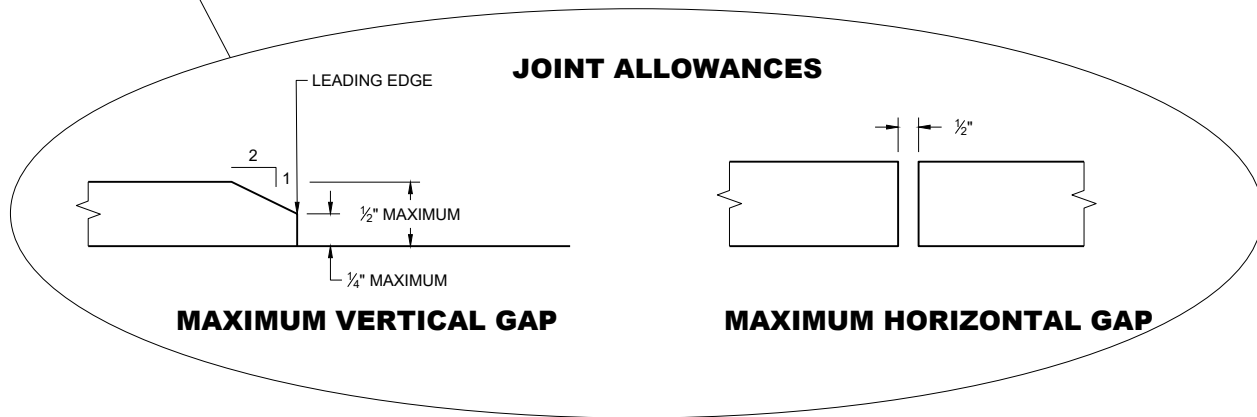
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING
ENGINEER

FHWA

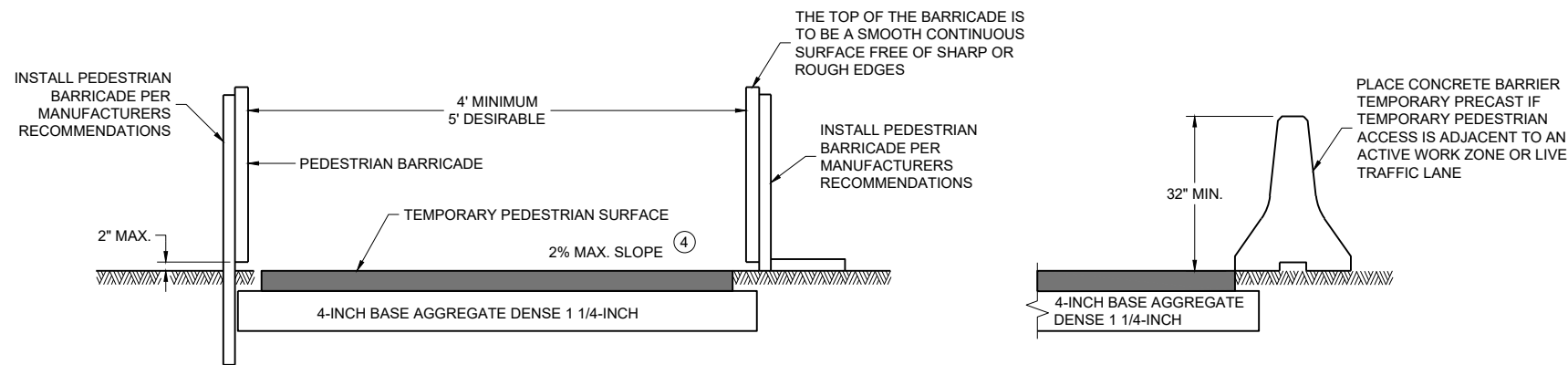


NARROW SIDEWALK PASSING DETAIL



MAXIMUM VERTICAL GAP

MAXIMUM HORIZONTAL GAP



TEMPORARY PEDESTRIAN ACCESS

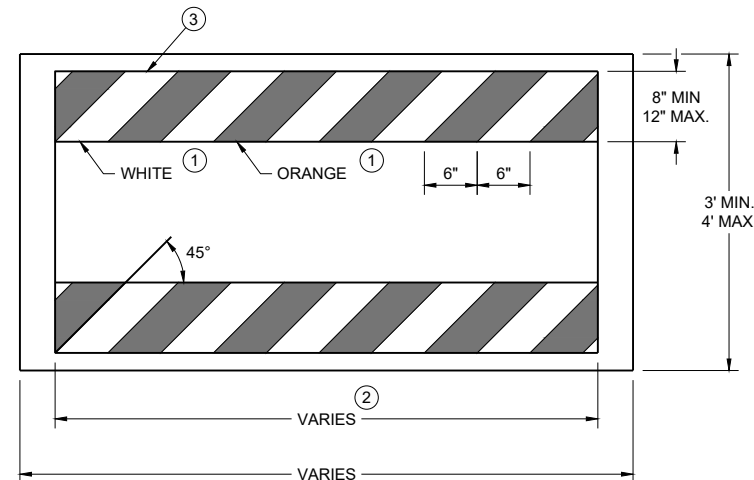
GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- ③ PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

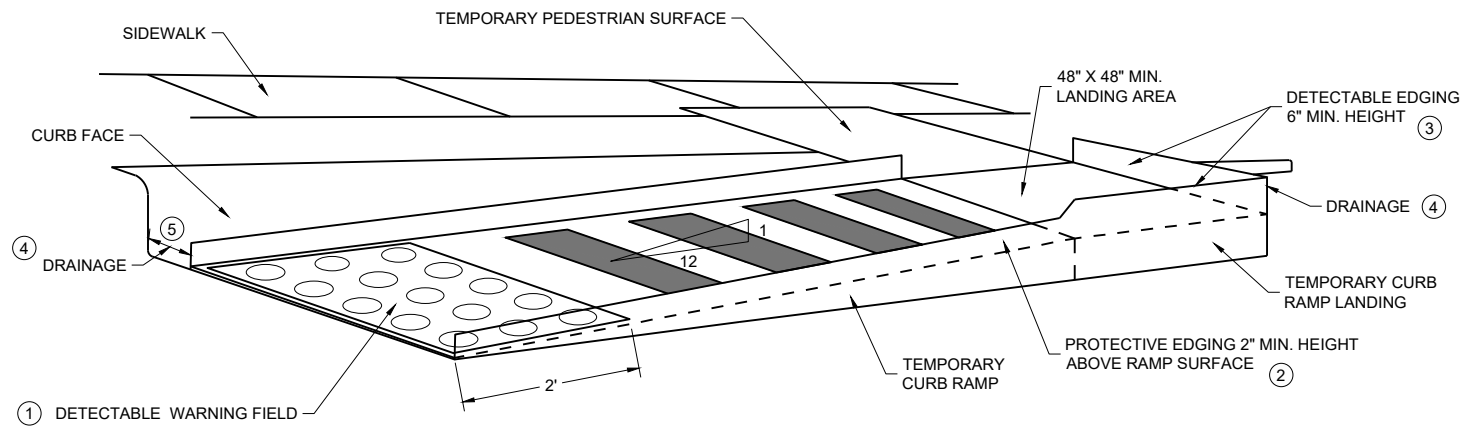
- ④ WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



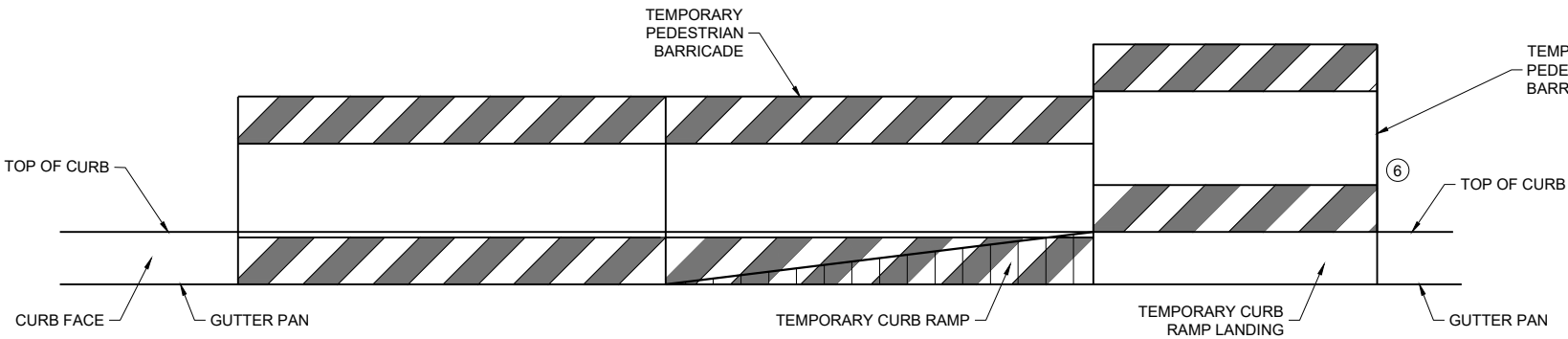
TEMPORARY PEDESTRIAN BARRICADE *

TRAFFIC CONTROL,
PEDESTRIAN
ACCOMMODATION

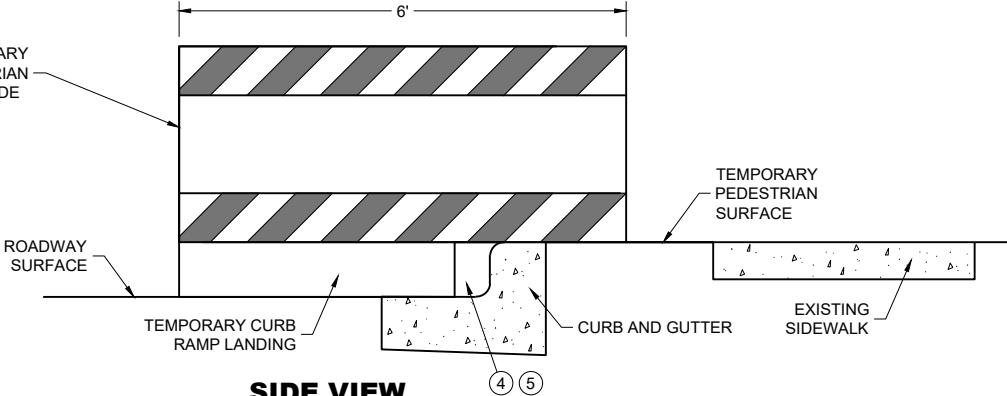
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PERSPECTIVE VIEW



FRONT VIEW

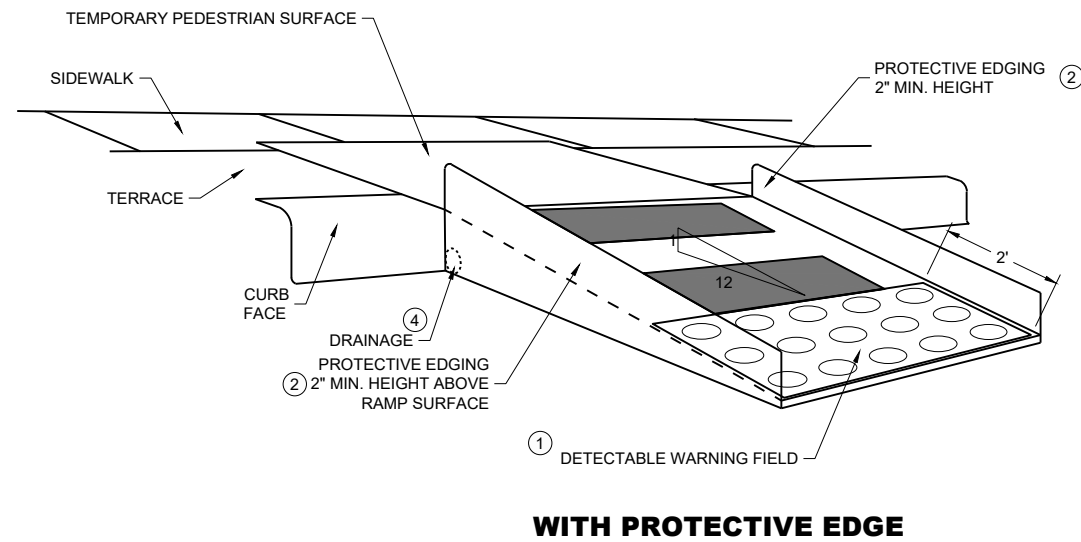
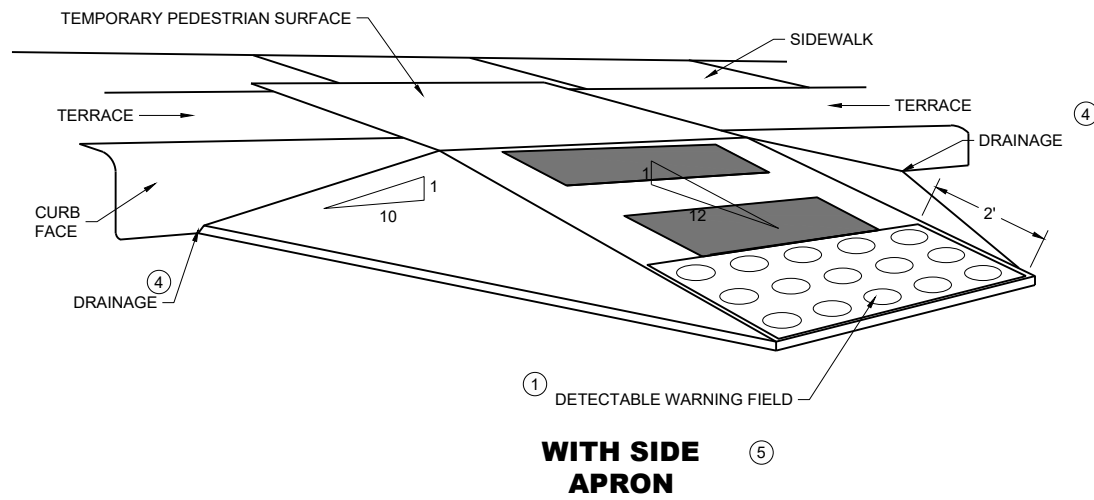


SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

- CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES MAY BE VERTICAL UP TO 1/4" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".
- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
 - ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
 - ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
 - ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
 - ⑤ ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
 - ⑥ IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

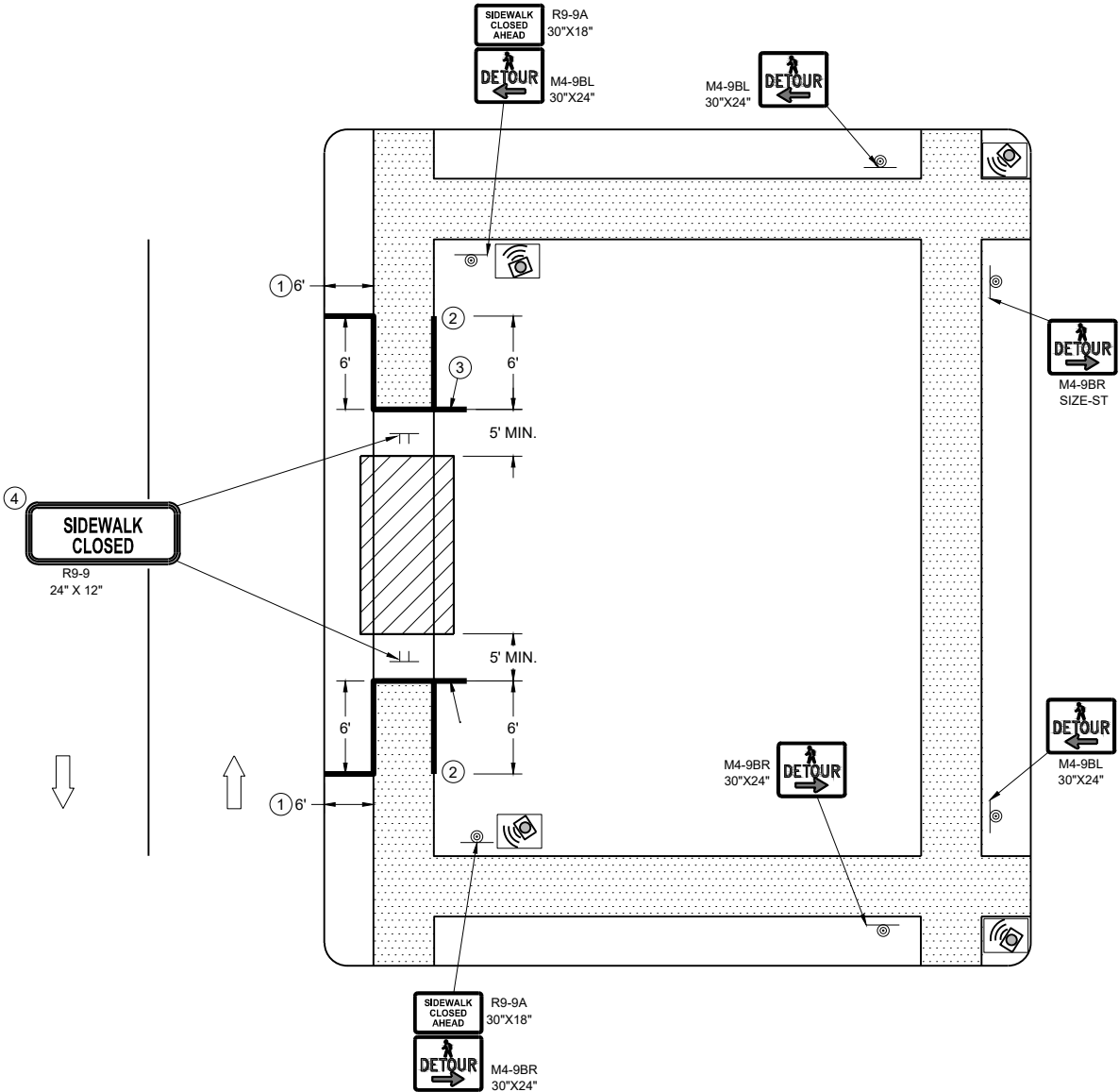
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ⑤ CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  UNDER PEDESTRIAN TRAFFIC
-  WORK AREA
-  TEMPORARY PEDESTRIAN BARRICADE
-  DIRECTION OF TRAFFIC
-  TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

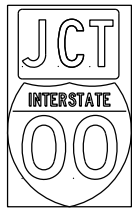
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

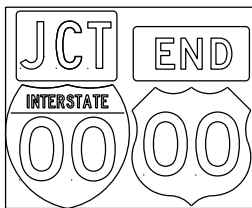
PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

- ① IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- ② PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- ③ IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- ④ MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

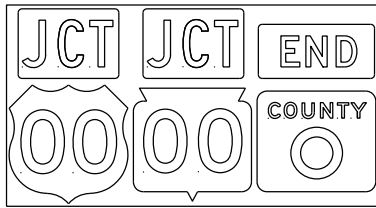
TYPICAL ASSEMBLIES



J1-1



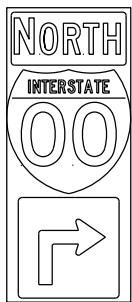
J1-2



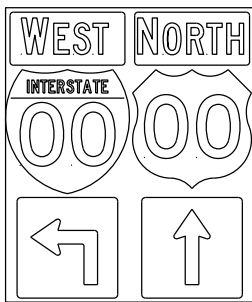
J1-3



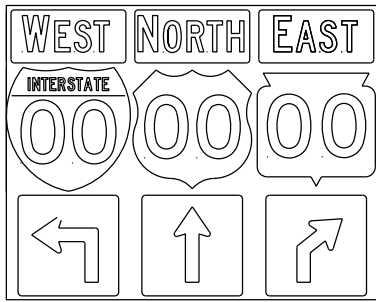
JR1-1



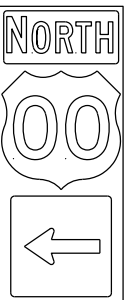
J2-1



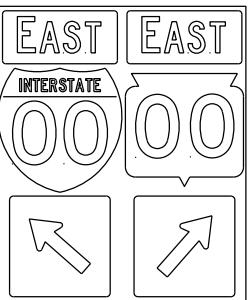
J2-2



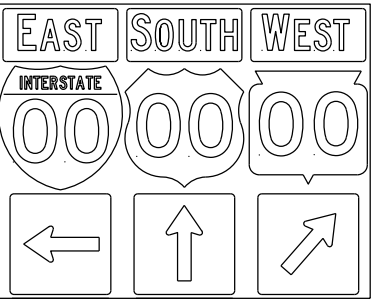
J2-3



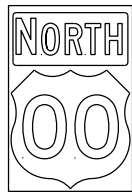
J3-1



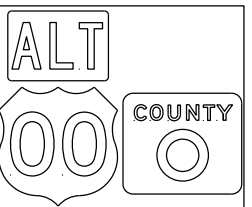
J3-2



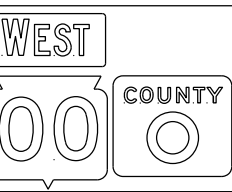
J3-3



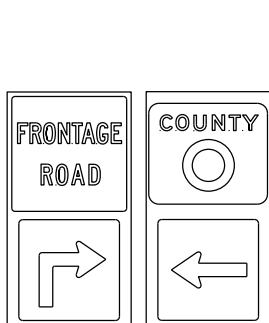
J4-1



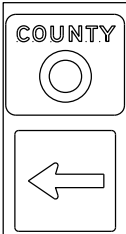
J4-2



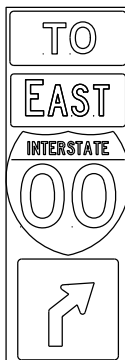
J4-2



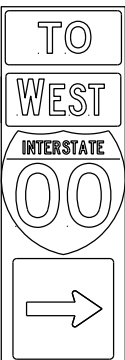
J12-1



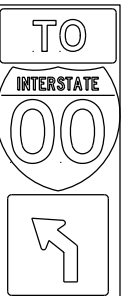
J13-1



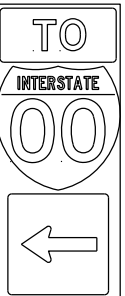
J32-1



J33-1



J22-1



J23-1



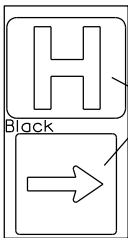
JR13-1



JR23-1



JR99-1

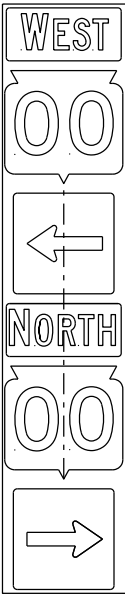
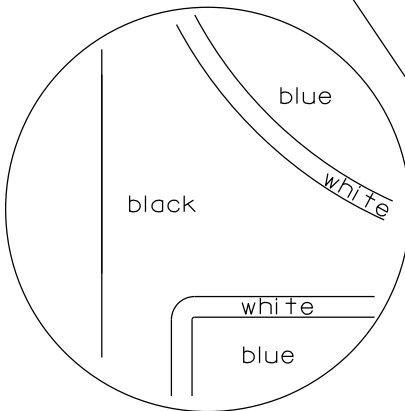


JH-1

Blue Background

Black

blue background with interstate

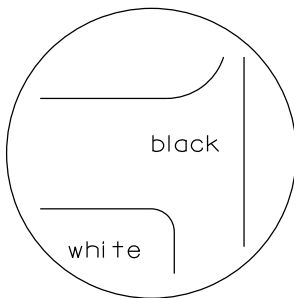
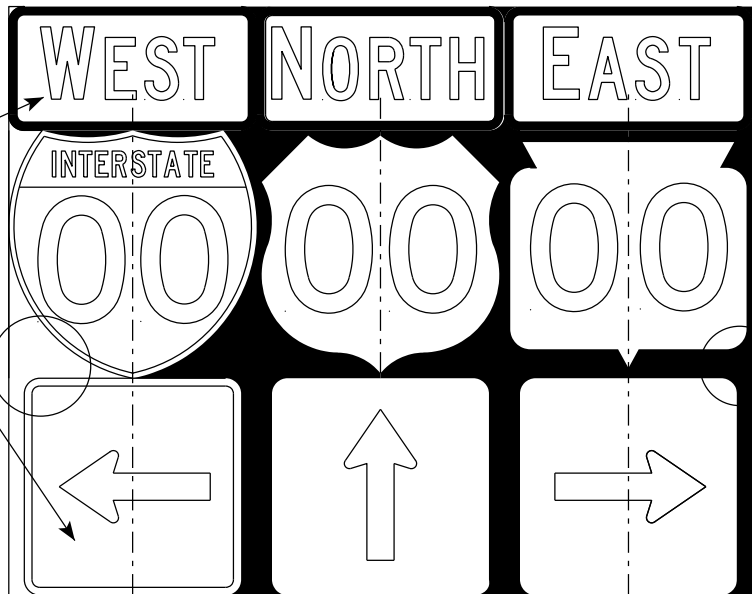


JV

(Typical Vertical J-Assembly
See Note 10 and 11)

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
Background - Black Non-reflective
Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
6. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
7. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
8. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.



black background

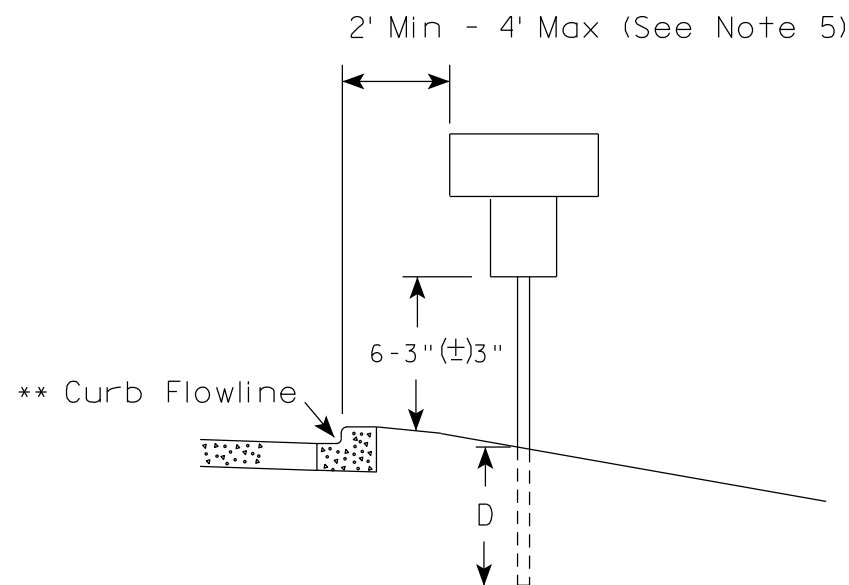
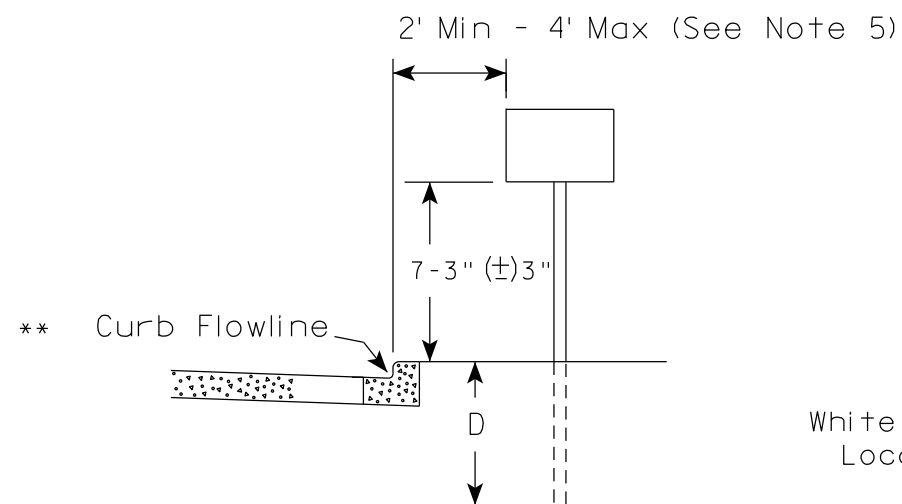
ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

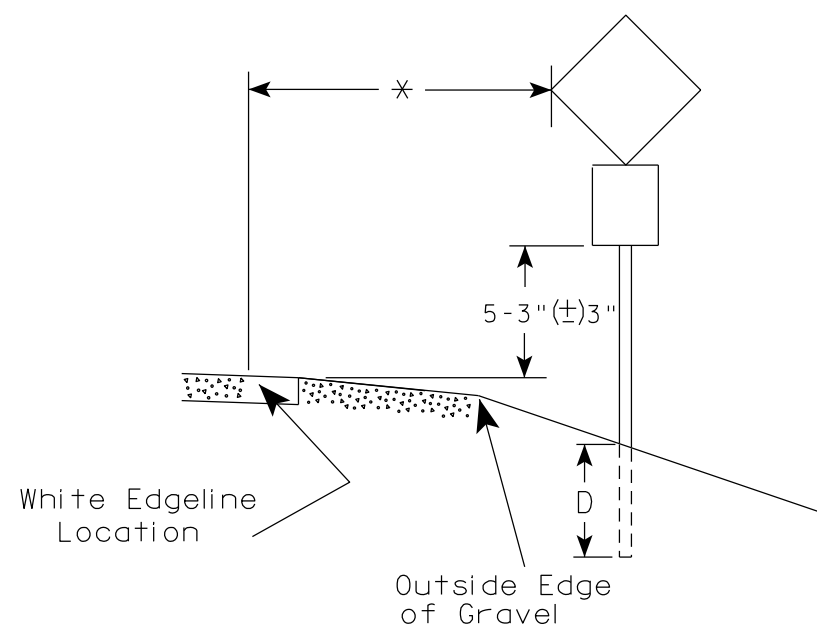
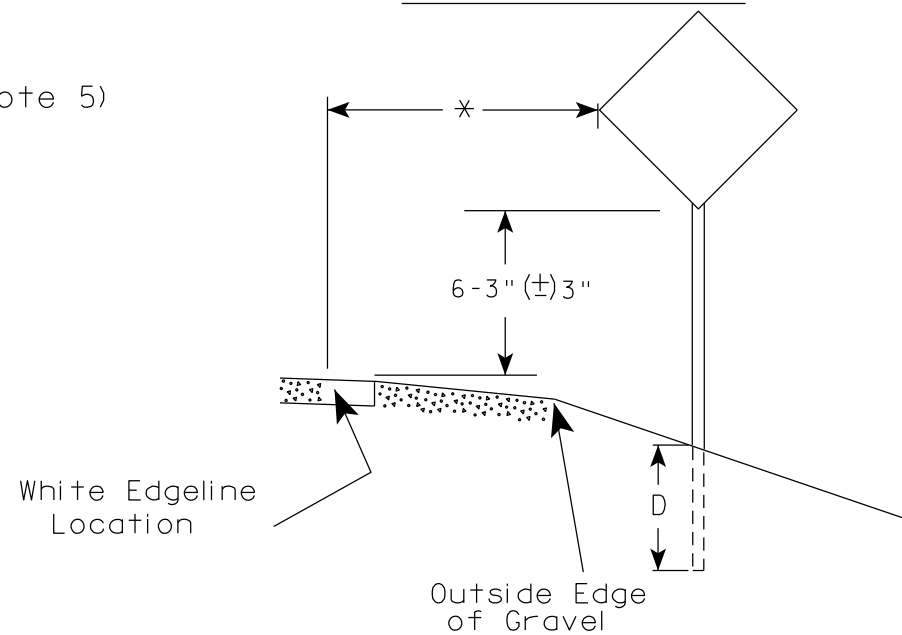
DATE 6/7/23 PLATE NO. A2-1S.10

URBAN AREA



* * 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.

RURAL AREA (See Note 2)



* 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

- Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- If signs are mounted on or behind barrier wall, see A4-10 sign plate.
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 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" (±) 3".
- For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
- Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the Engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 12/6/23

PLATE NO. A4-3.23

PROJECT NO:

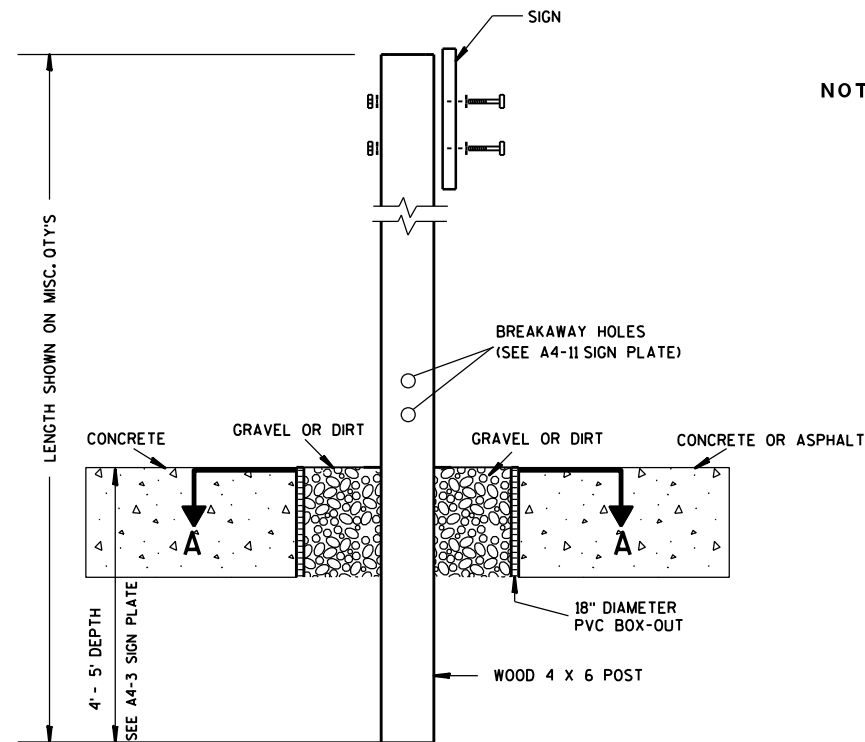
HWY:

COUNTY:

SHEET NO:

142

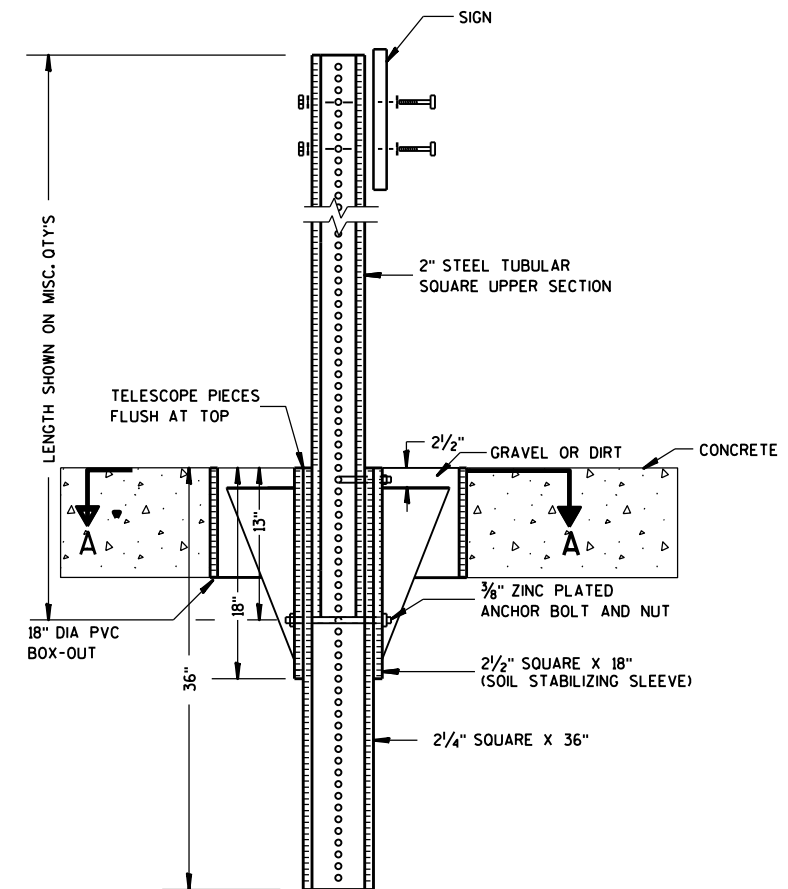
E



ELEVATION VIEW

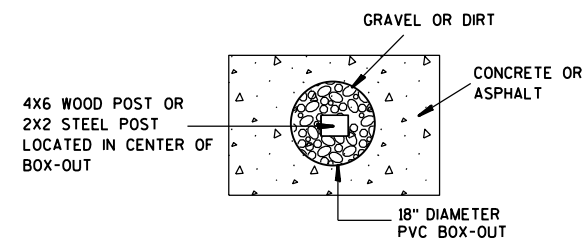
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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 PLAT 143 A4-3B.1

PROJECT NO:

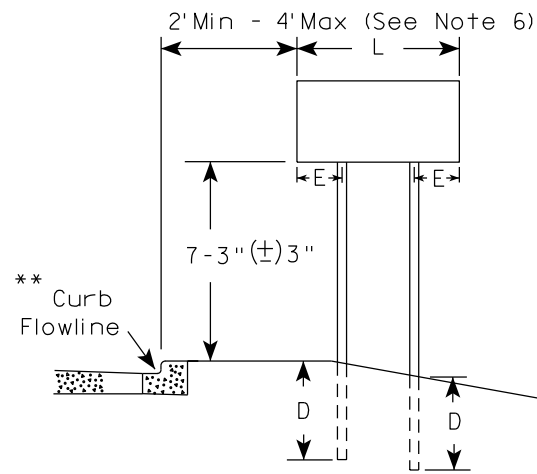
HWY:

COUNTY:

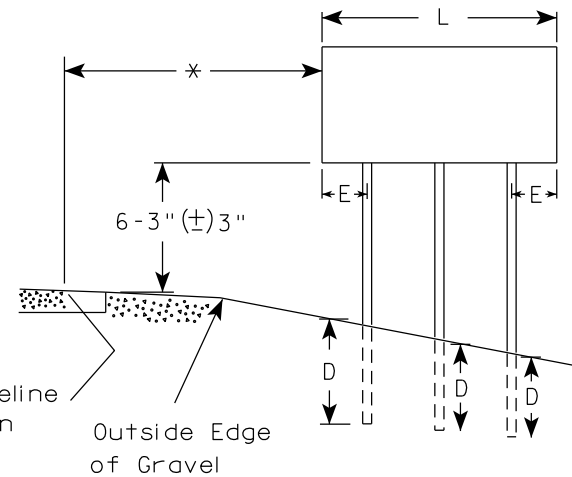
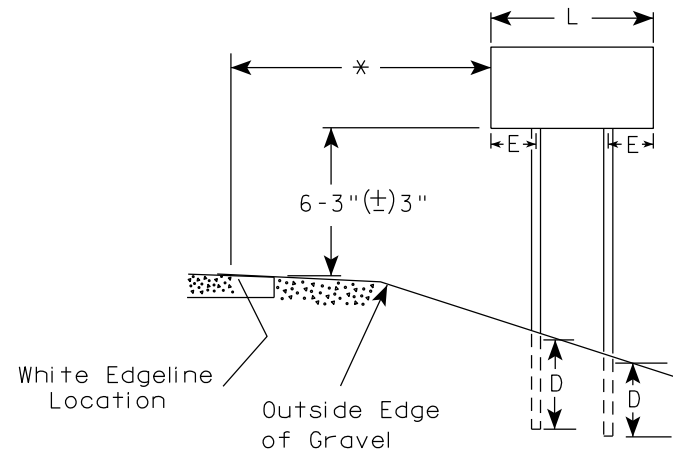
SHEET NO:

E

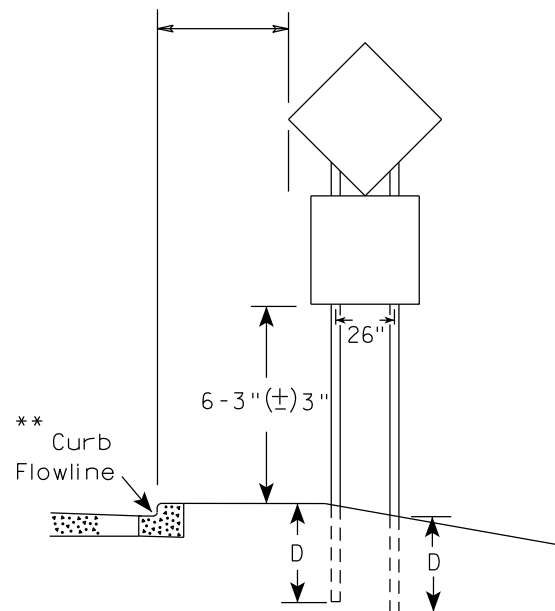
URBAN AREA



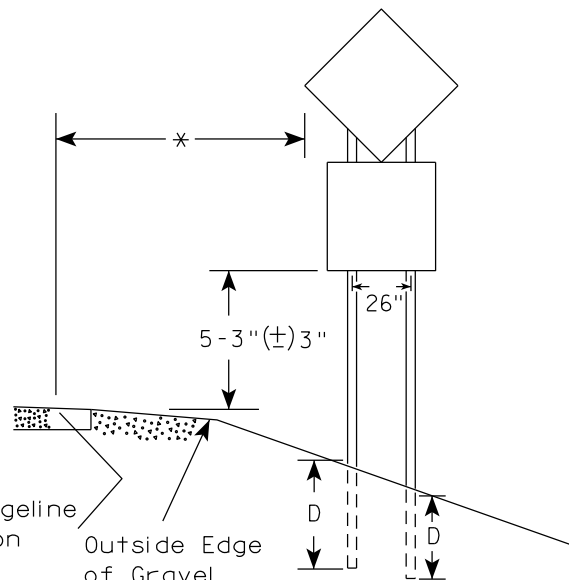
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



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"

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 12/6/23 PLATE NO. A4-4.16

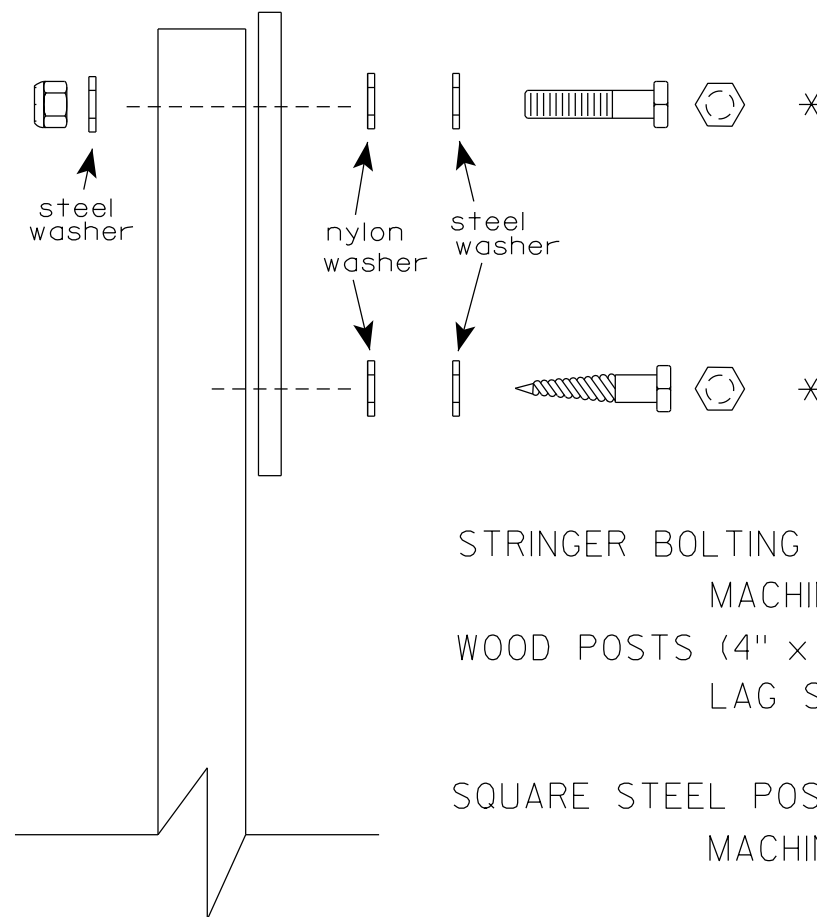
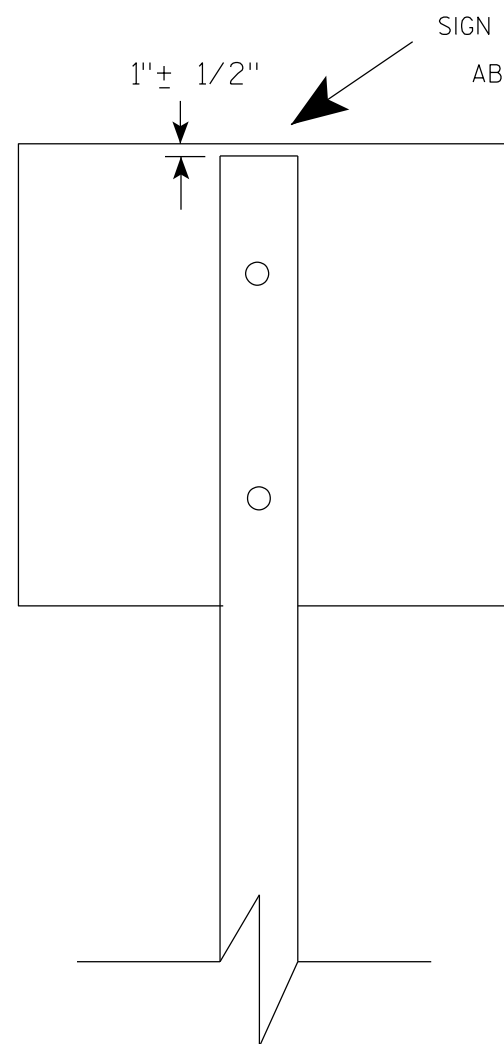
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 144

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.

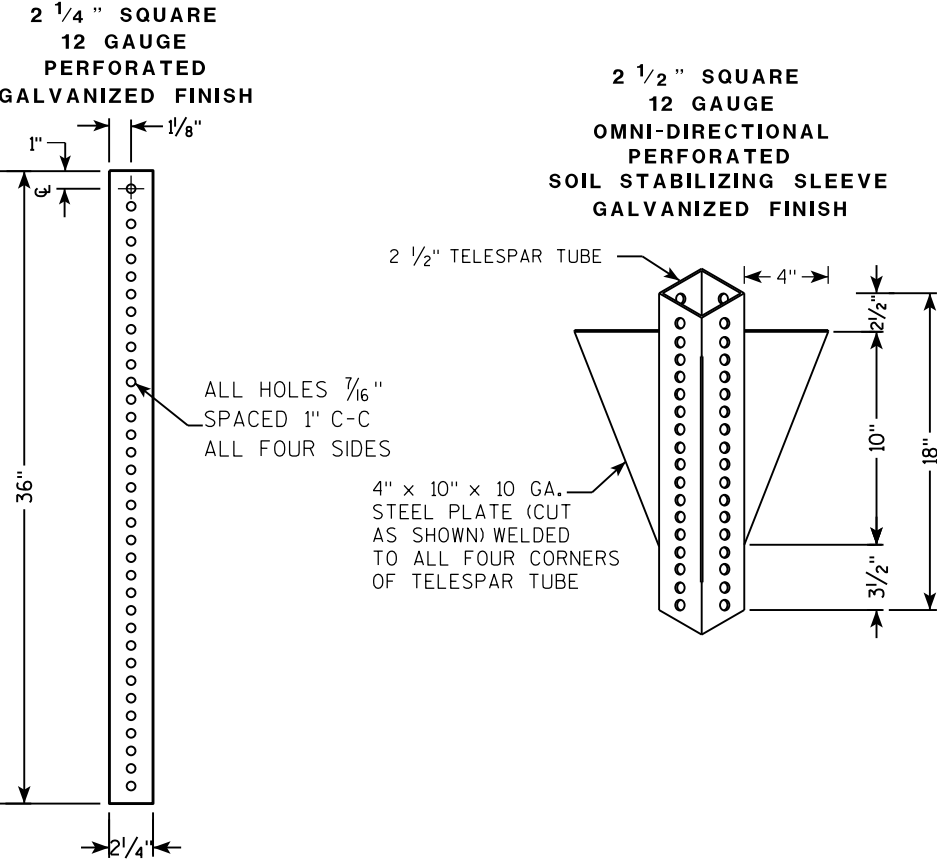
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - $\frac{9}{32}$ " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
 - 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

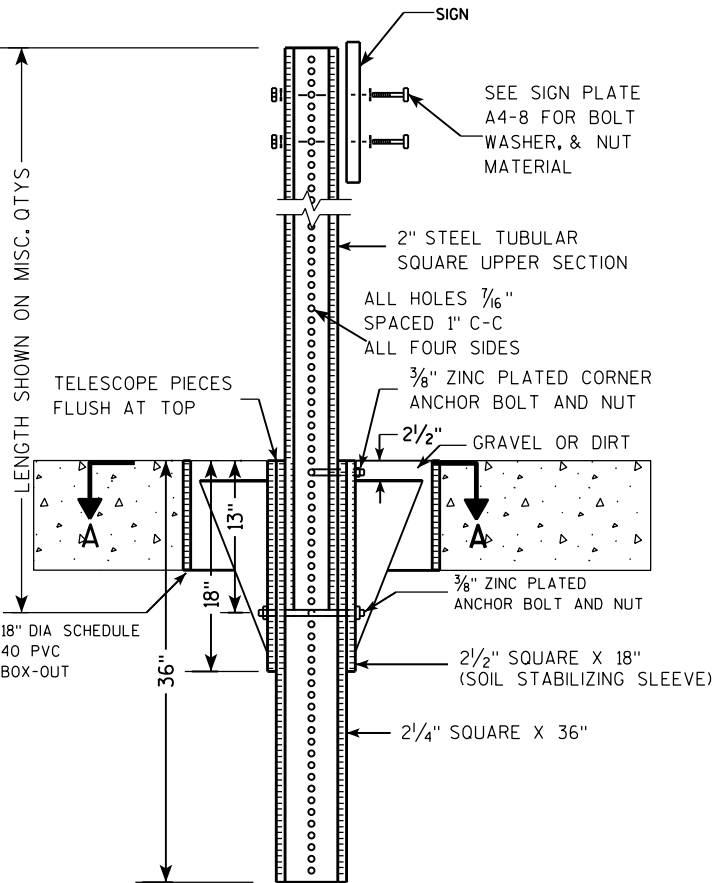
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/1/2020	PLATE NO. A4-8.9

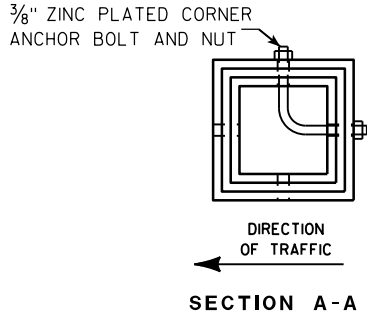
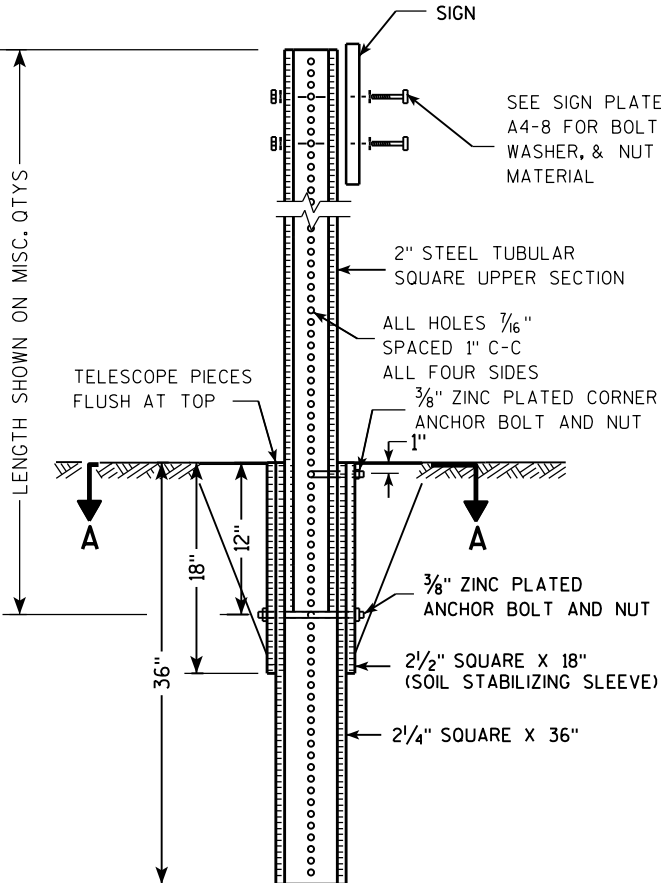
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM



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)



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

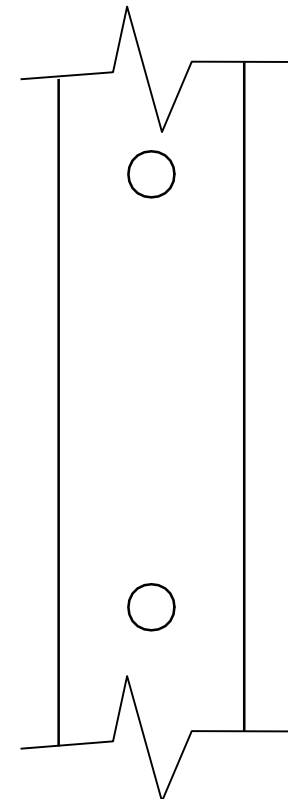
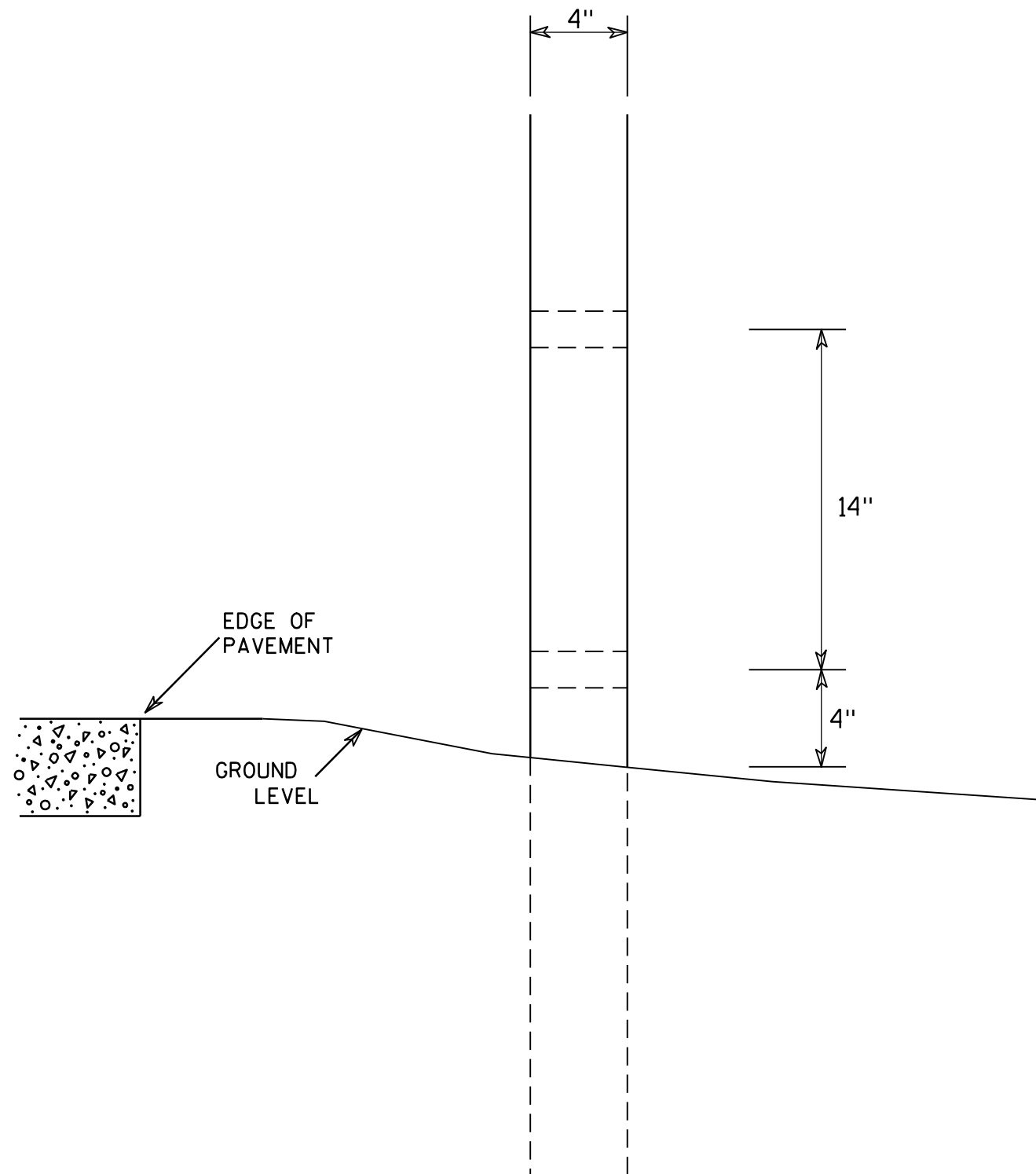
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLAT 146 14-9.9



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:

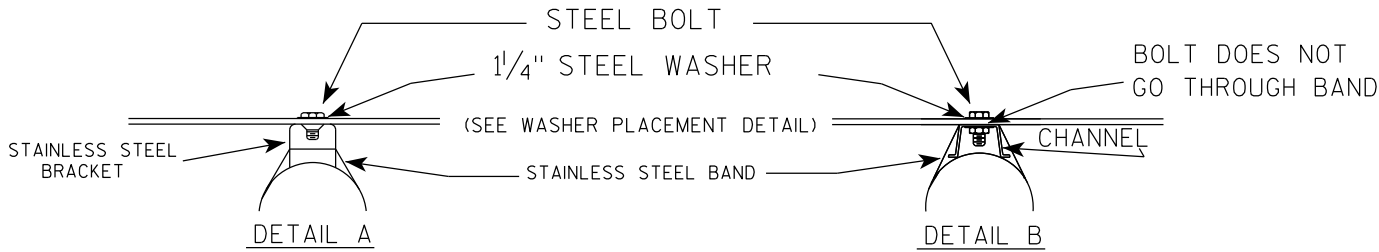
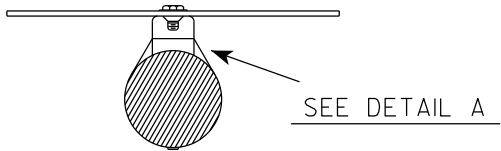
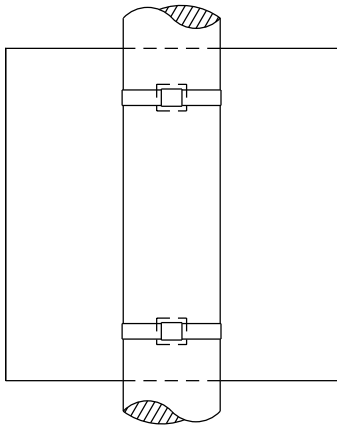
COUNTY:

SHEET NO: 147

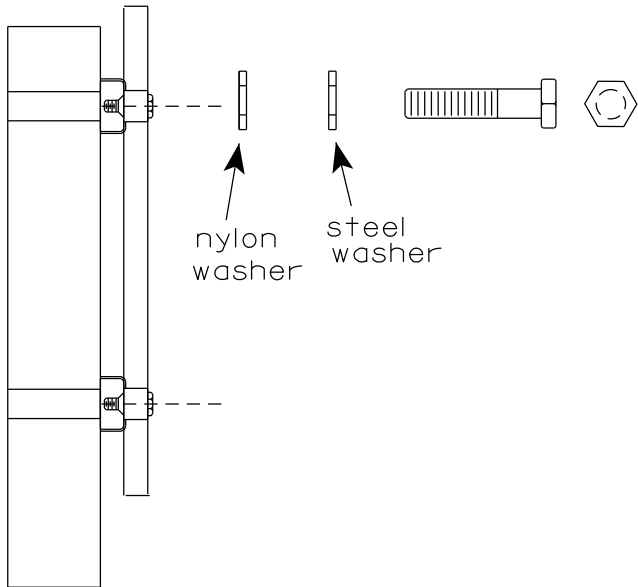
E

BANDING

SINGLE SIGN



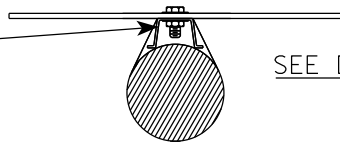
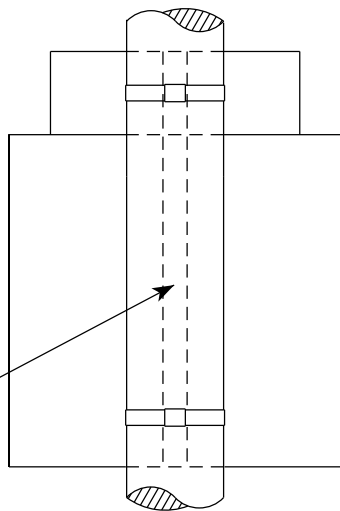
WASHER PLACEMENT



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

CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

"J" ASSEMBLY

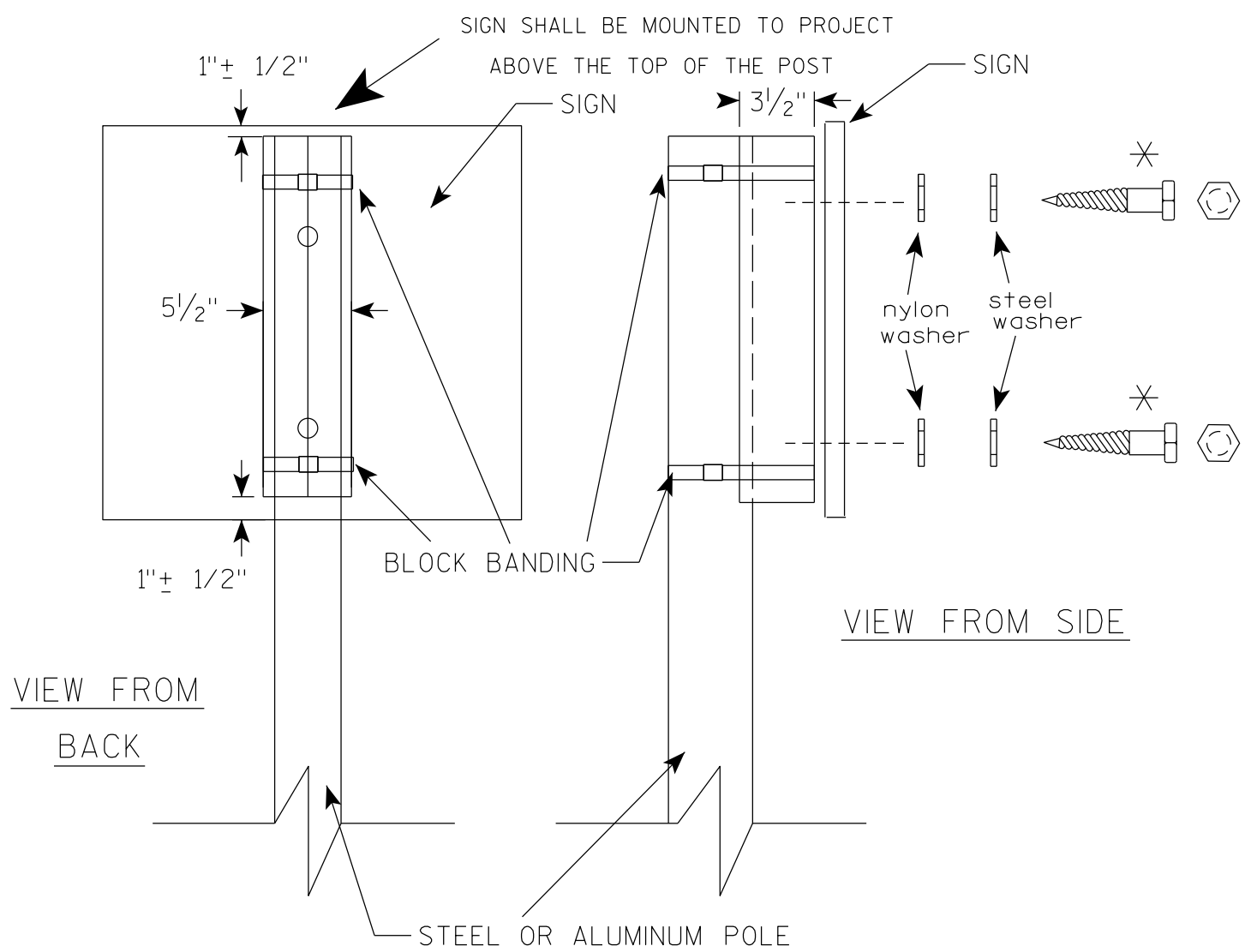


- GENERAL NOTES
1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
 3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" 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

STANDARD SIGN
SIGN BANDING DETAILS

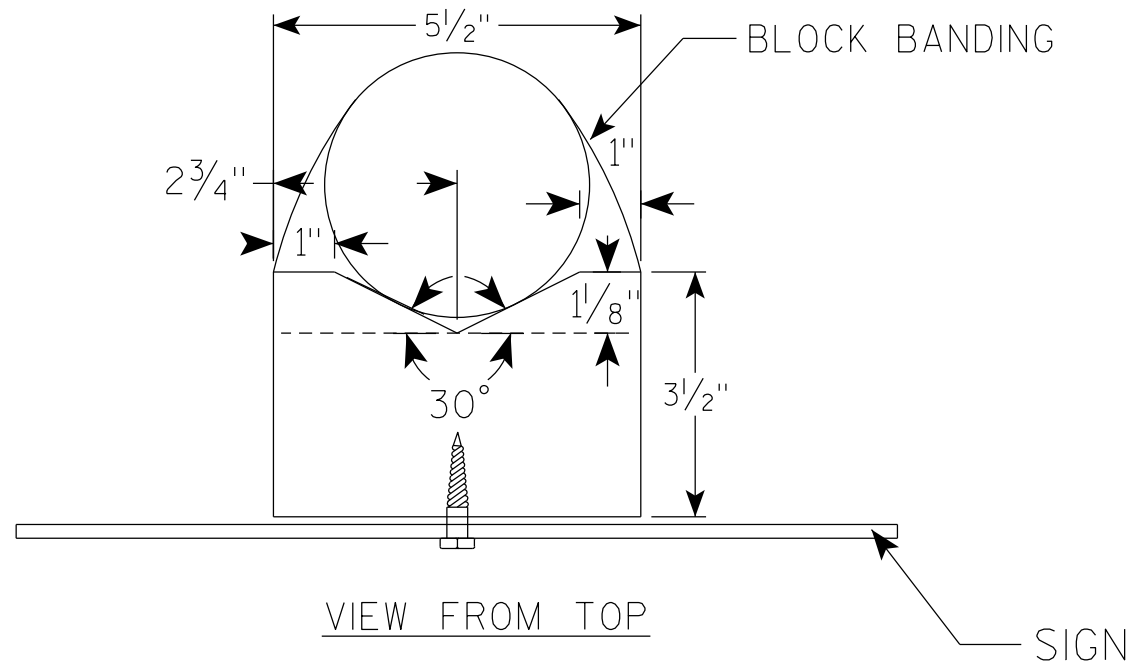
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/10/19 PLATE NO. A5-9.4



VIEW FROM
BACK

VIEW FROM SIDE



VIEW FROM TOP

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, $\frac{3}{4}$ " 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 NORMALLY 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 $\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
8. NYLON WASHERS SHALL BE $\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

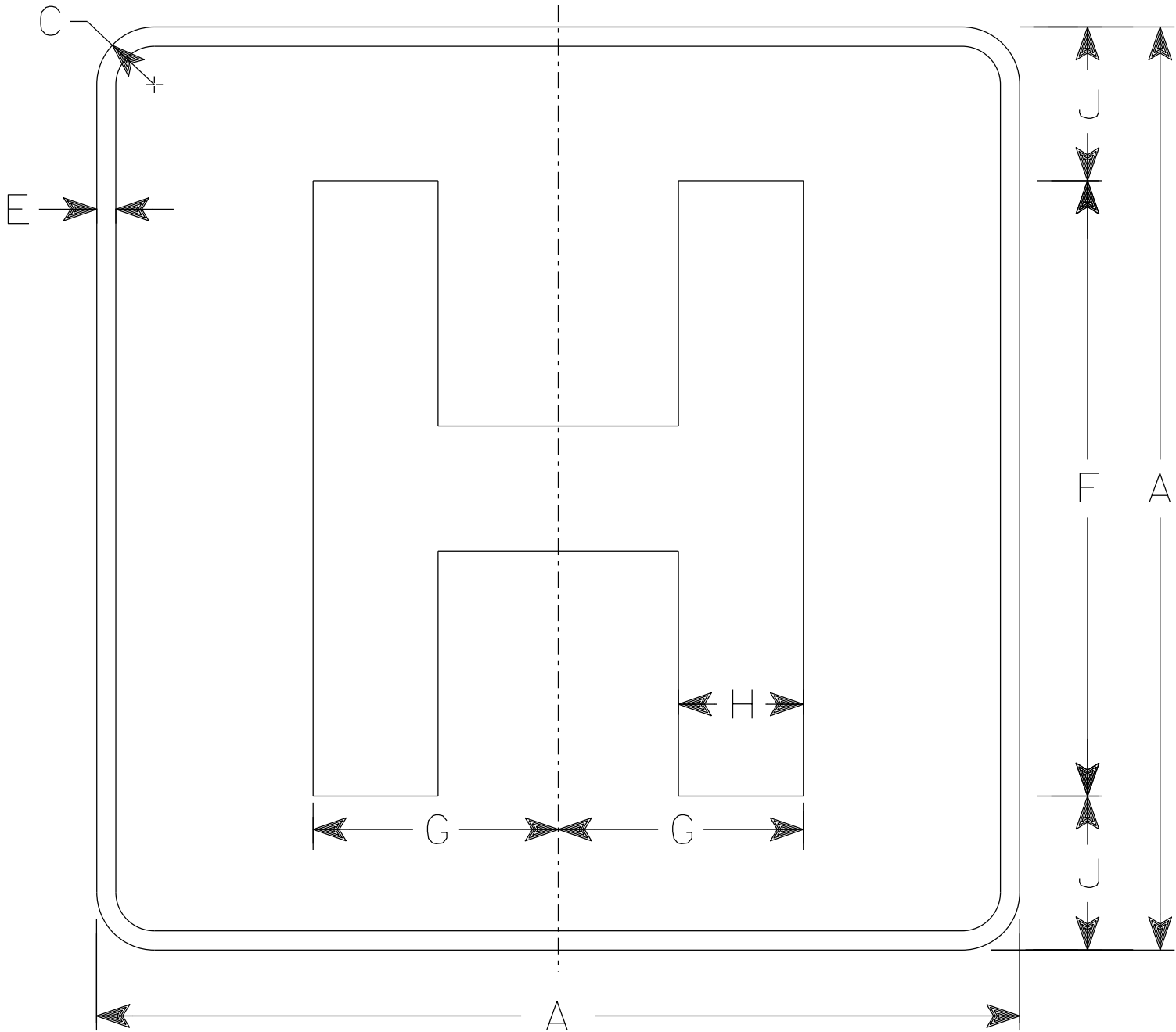
PROJECT NO:

SHEET NO: 149

E

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - Blue
 - Message - White
- 3. Message Series - E Modified
- 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.

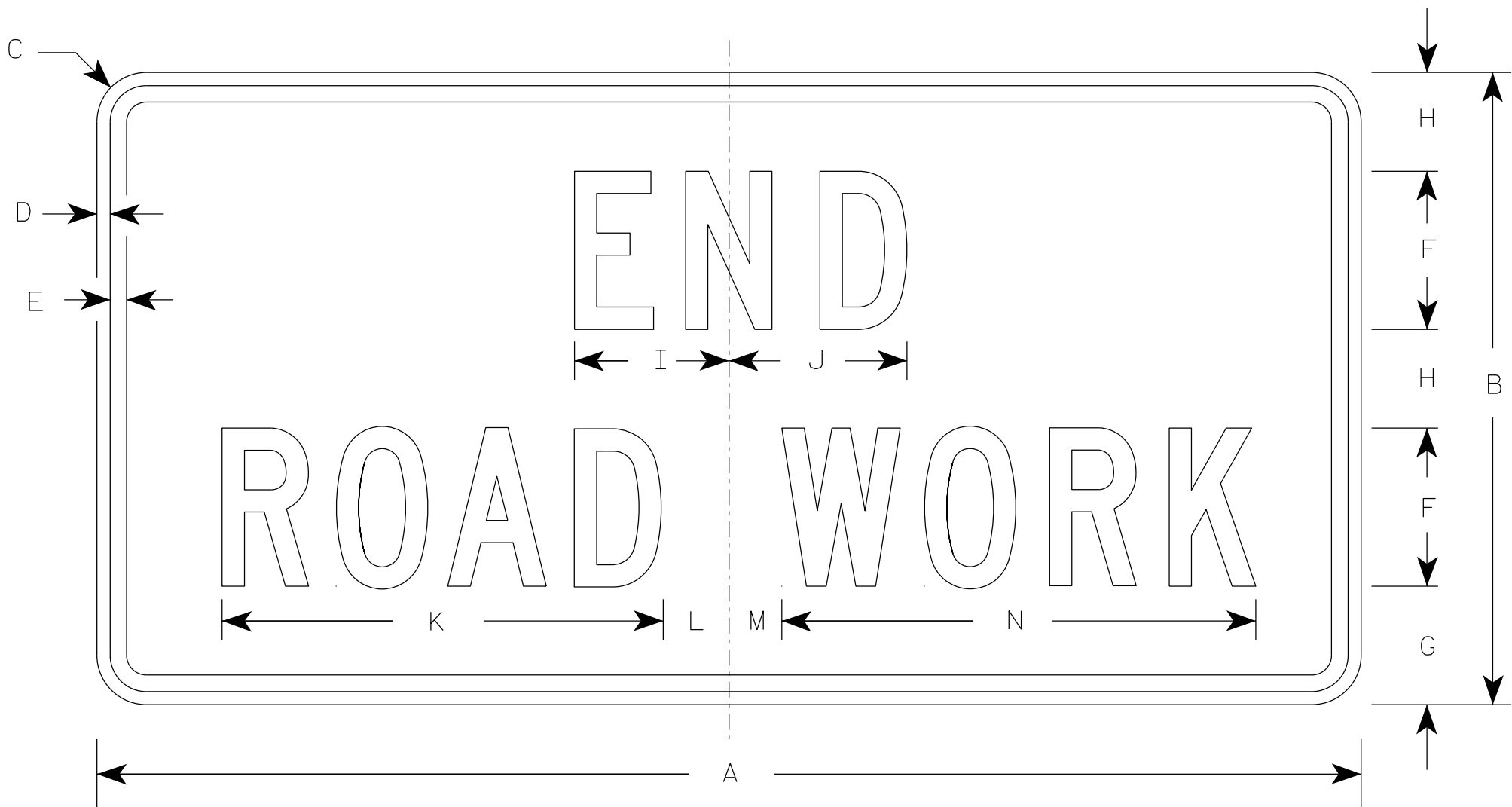


D9-2

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	18		1 1/2		1/2	12	4 3/4	2 3/8		3																	2.25
2S	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
2M	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
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.



G20-2A

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	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

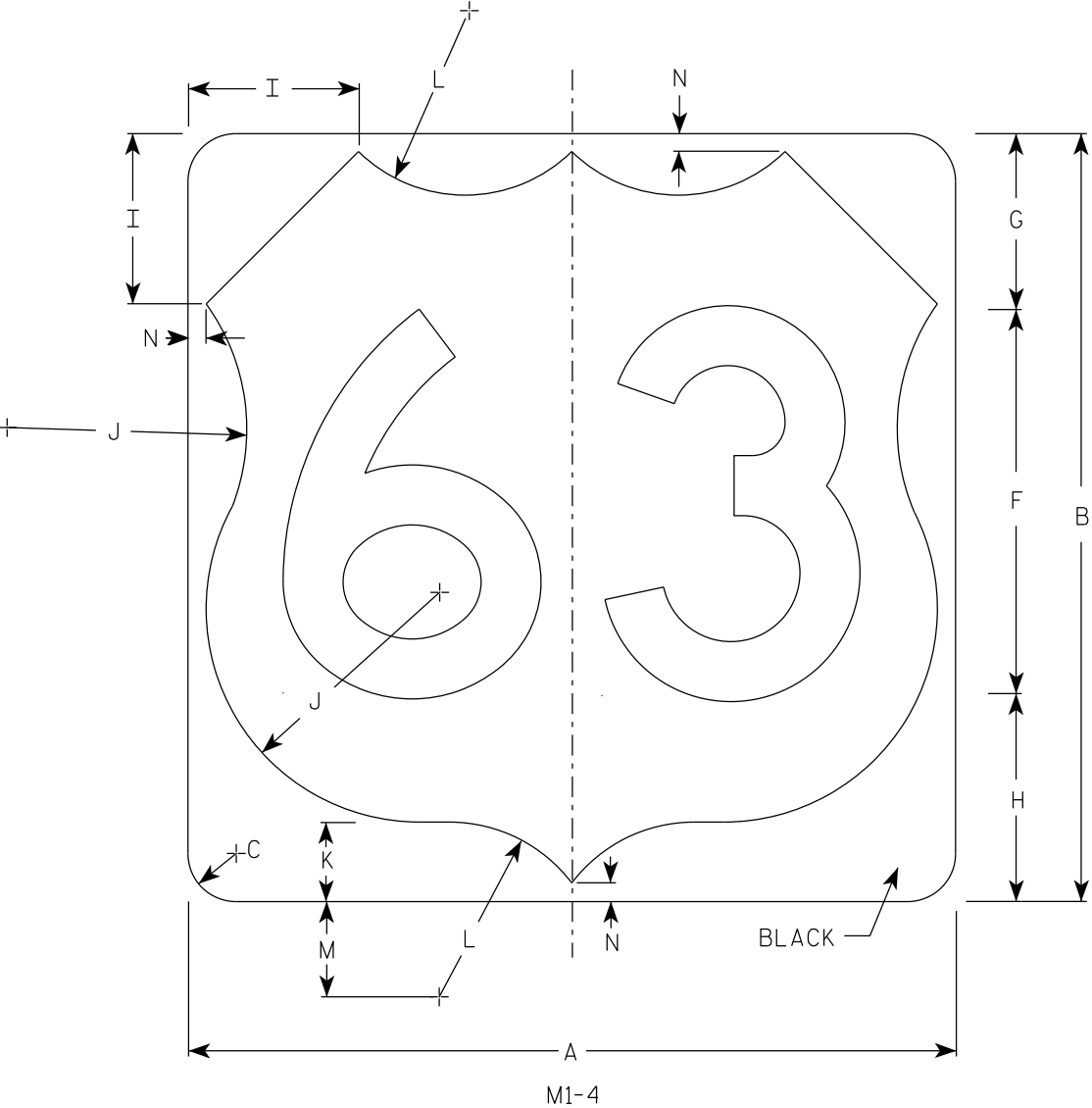
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

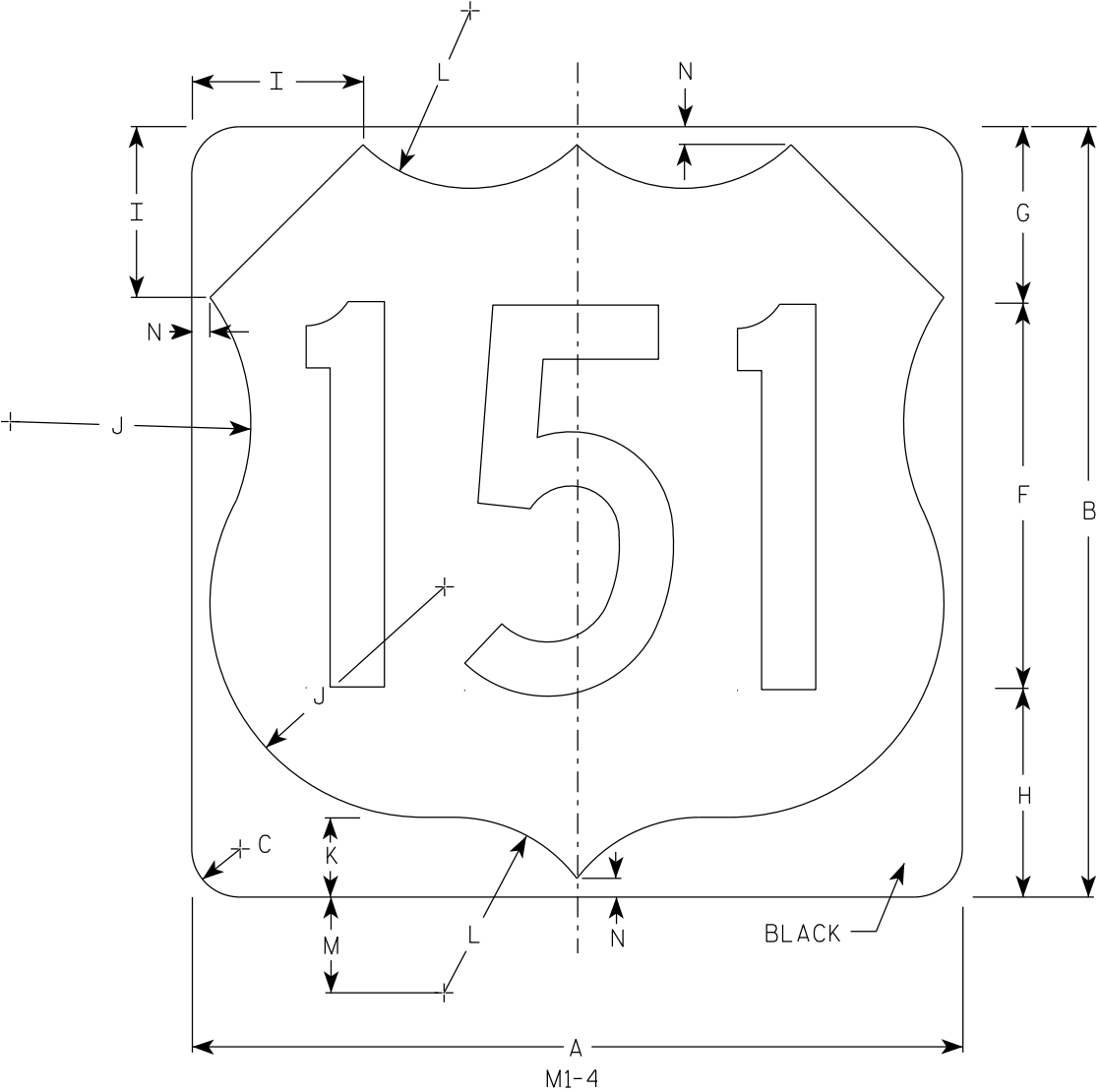
DATE 1/26/2023 PLATE NO. G20-2A.10

7



NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - White
Message - Black
- 3. Message Series - D except 3 number signs Series C



7

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	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
2M	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

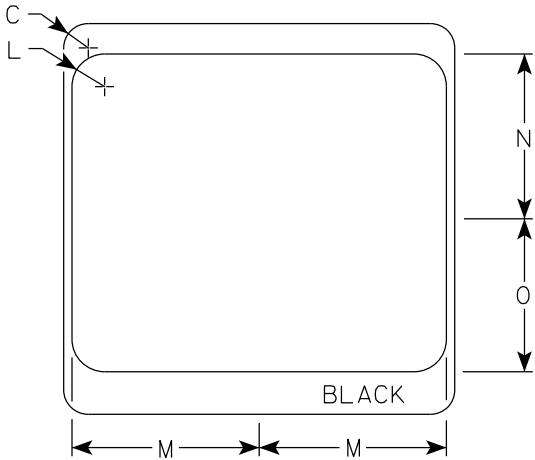
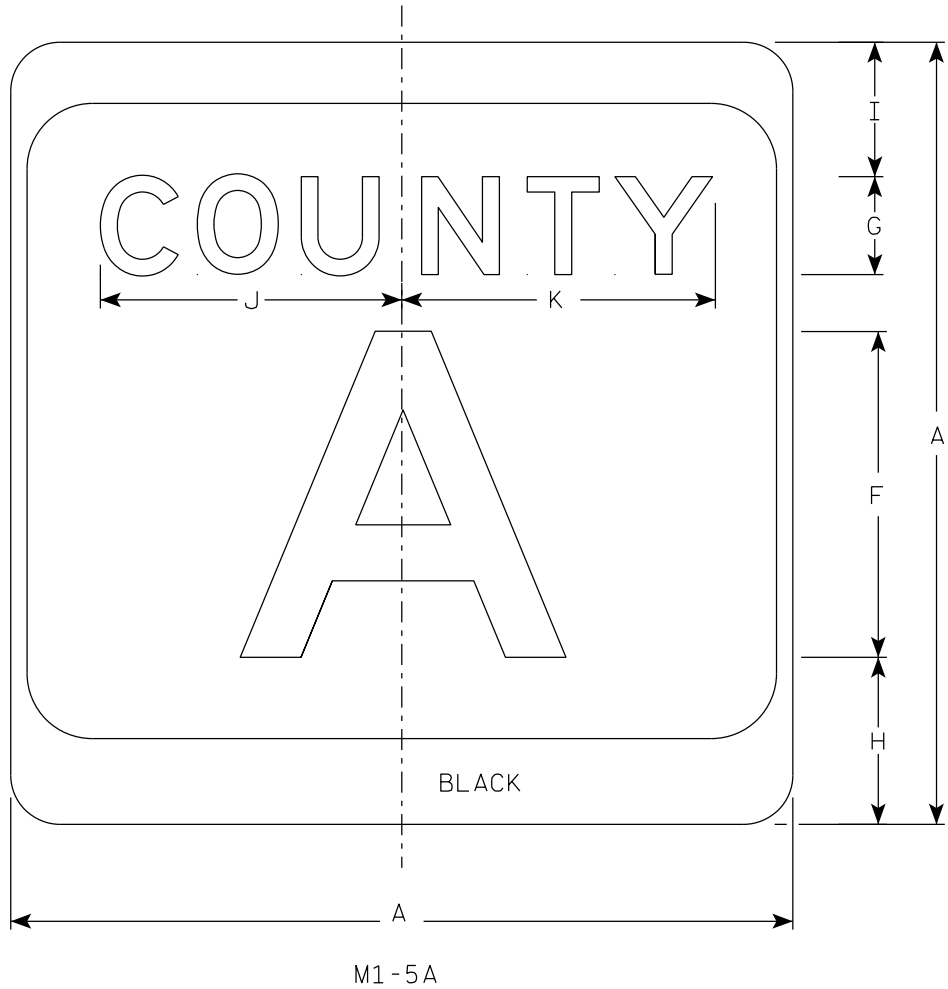
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

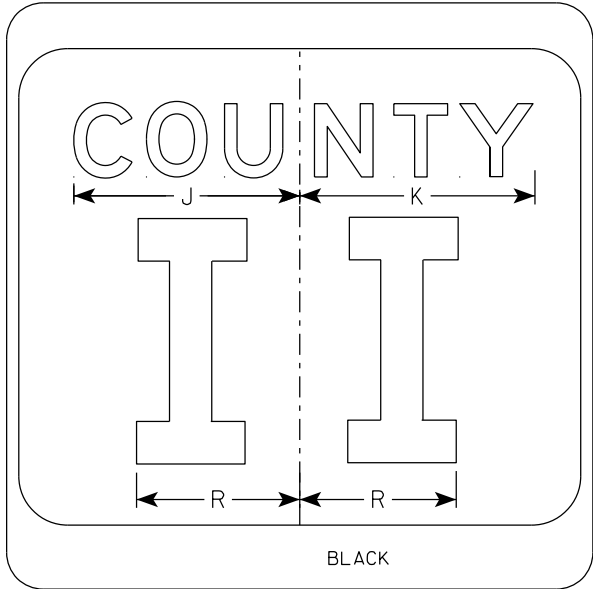
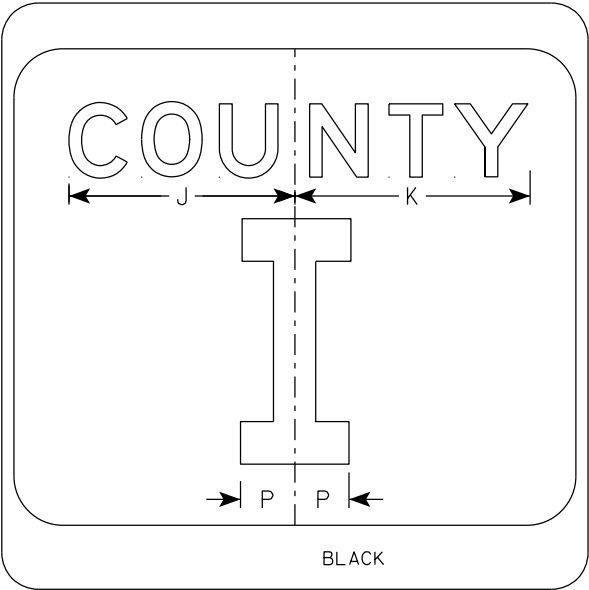
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 12/20/22 PLATE NO. M1-4.11

7



- NOTES
- Sign is Type II - Type H Reflective
 - Color:
Background - White & Black
Message - Black
 - Message Series - see Note 4
 - Message Series E for 1 letter.
Message Series D for 2 letters unless
message is too big then Series C.
Message Series C for 3 letters unless
message is too big then Series B.
 - Substitute appropriate letters & optically
center 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																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER

M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-5A.9

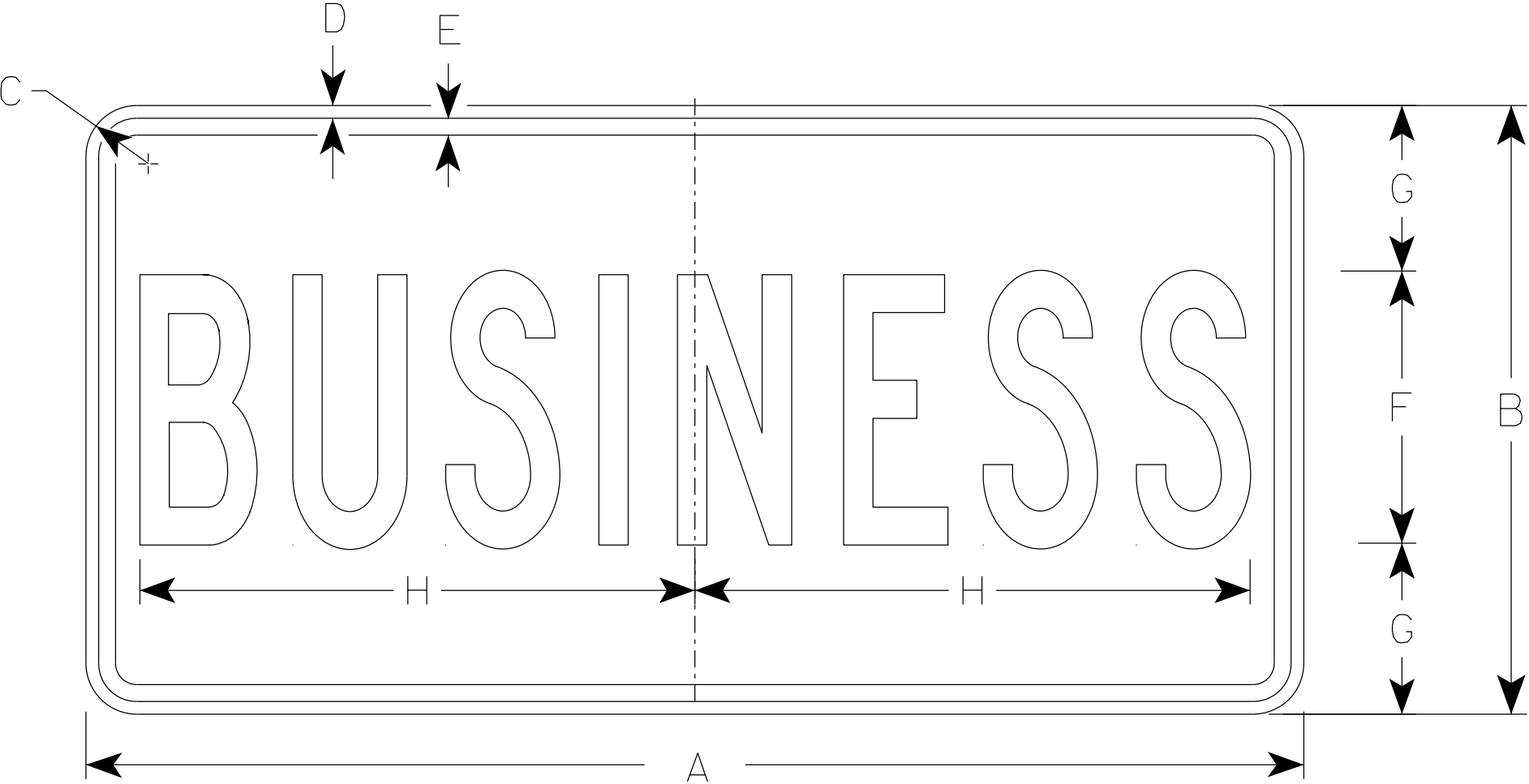
7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:

Background - White

Message - Black
3. Message Series - B



M4 - 3

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 1/2	3/8	3/8	5	3 1/2	9 5/8																			2.0
2M	24	12	1 1/2	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/2	3/8	1/2	8	5	16 3/8																			4.5
4	36	18	1 1/2	3/8	1/2	8	5	16 3/8																			4.5
5	36	18	1 1/2	3/8	1/2	8	5	16 3/8																			4.5

STANDARD SIGN
M4 - 3

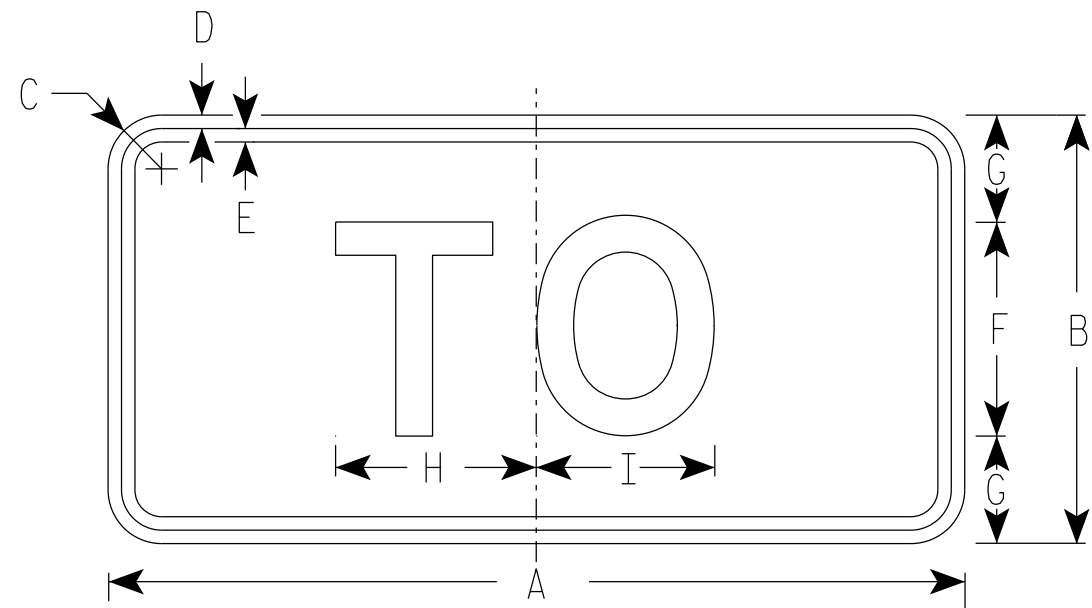
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

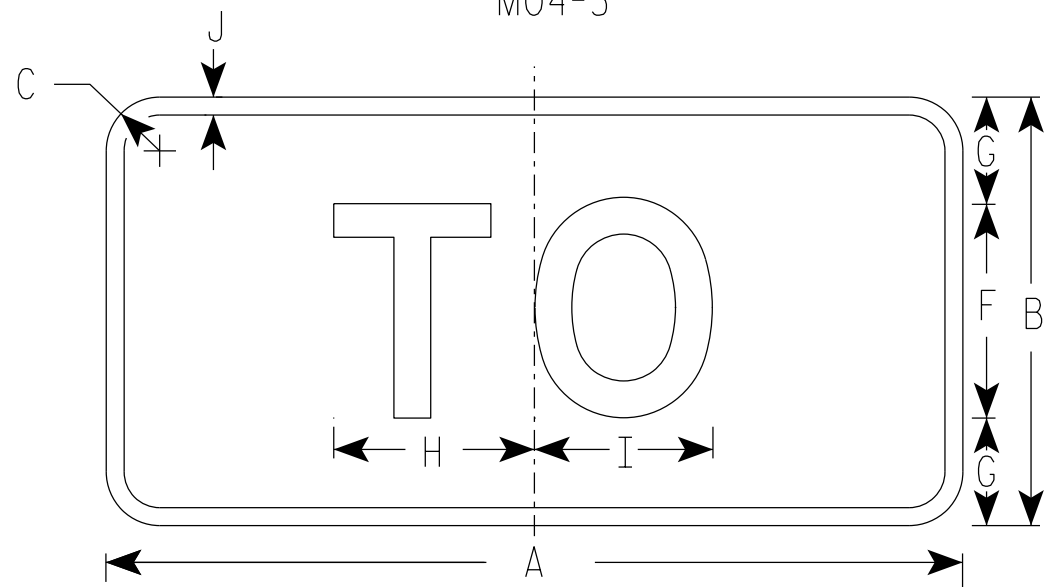
Matthew R. Rauch

for State Traffic Engineer

DATE 2/8/2023PLATE NO. M4-3.7



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - See note 5
Message - See note 5
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. M4-5 Background - White
Message - Black
MB4-5 Background - Blue
Message - White
MK4-5 Background - Green
Message - White
MM4-5 Background - White
Message - Green
MN4-5 Background - Brown
Message - White
MP4-5 Background - White
Message - Blue
M04-5 Background - Orange Type F Reflective
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	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	3	5 3/8	5 1/4	1/2																	2.00
2M	24	12	1 1/2	3/8	3/8	6	3	5 3/8	5 1/4	1/2																	2.00
3	36	18	1 1/2	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2																	4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2																	4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2																	4.5

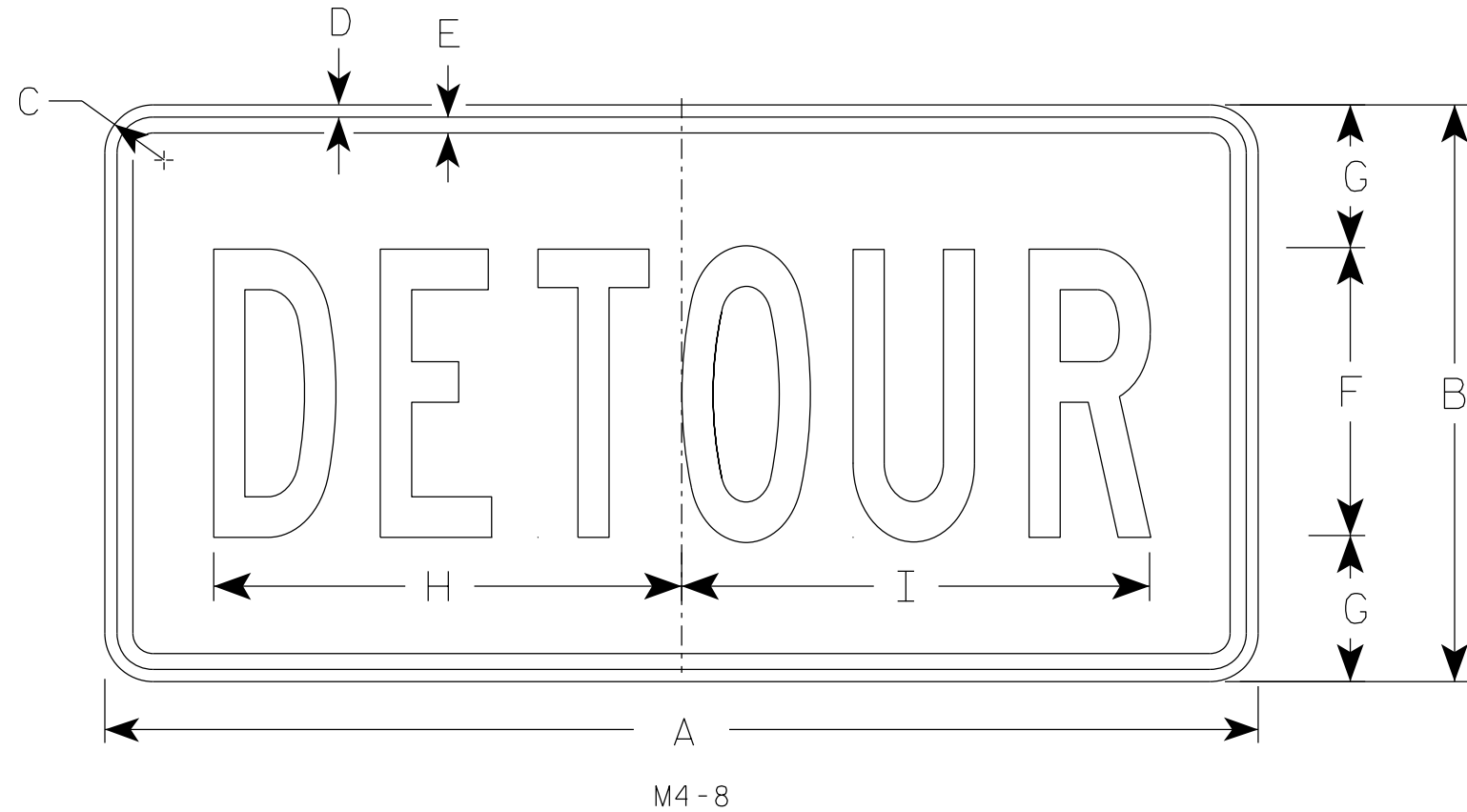
PROJECT NO:		HWY:		COUNTY:		SHEET NO: 155		E
-------------	--	------	--	---------	--	---------------	--	---

7

7

NOTES

- 1. Sign is Type II - Type F Reflective
- 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 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

STANDARD SIGN

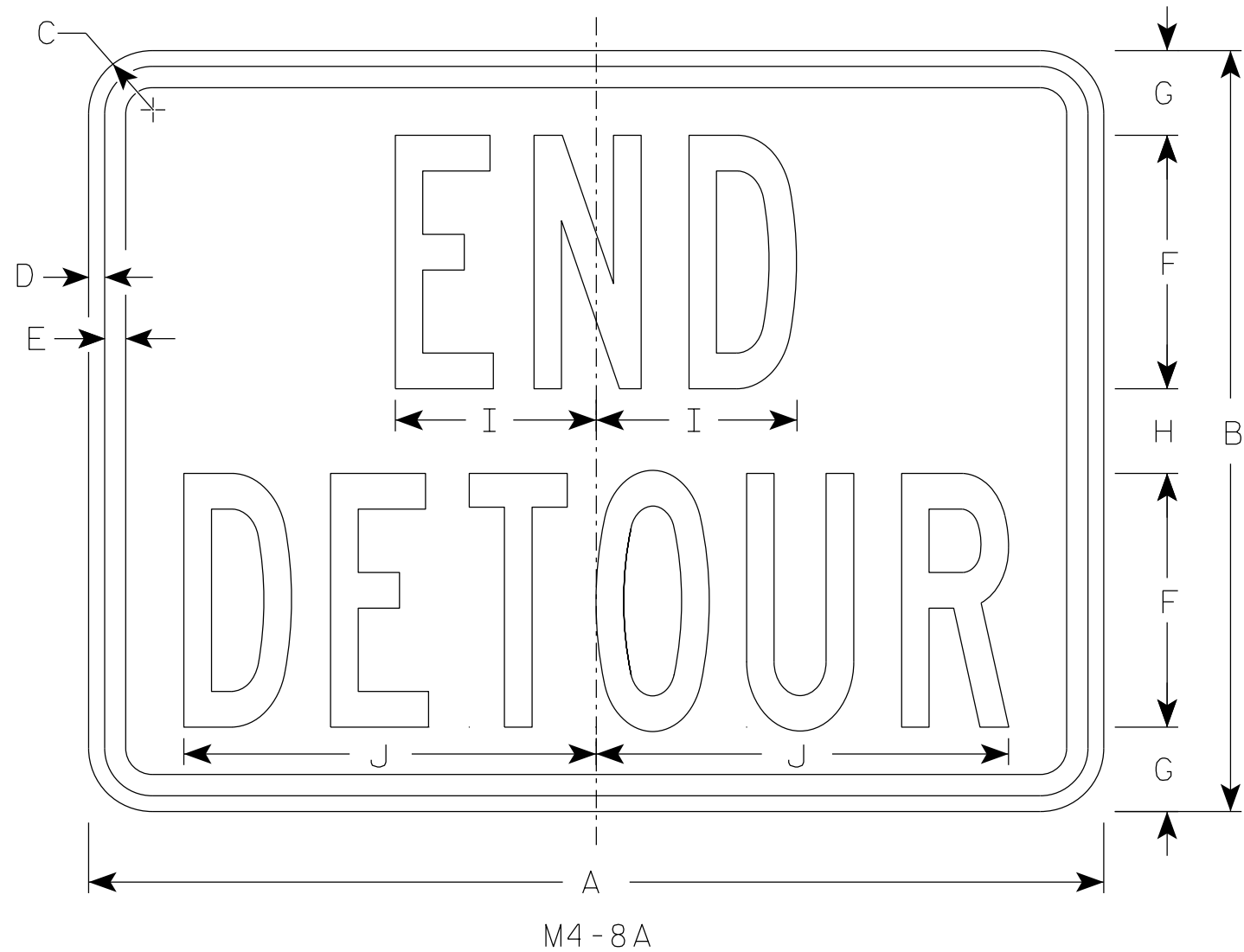
M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

7



NOTES

1. Sign is Type II - Type F Reflective
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.

7

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 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
2M	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
5	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0

STANDARD SIGN

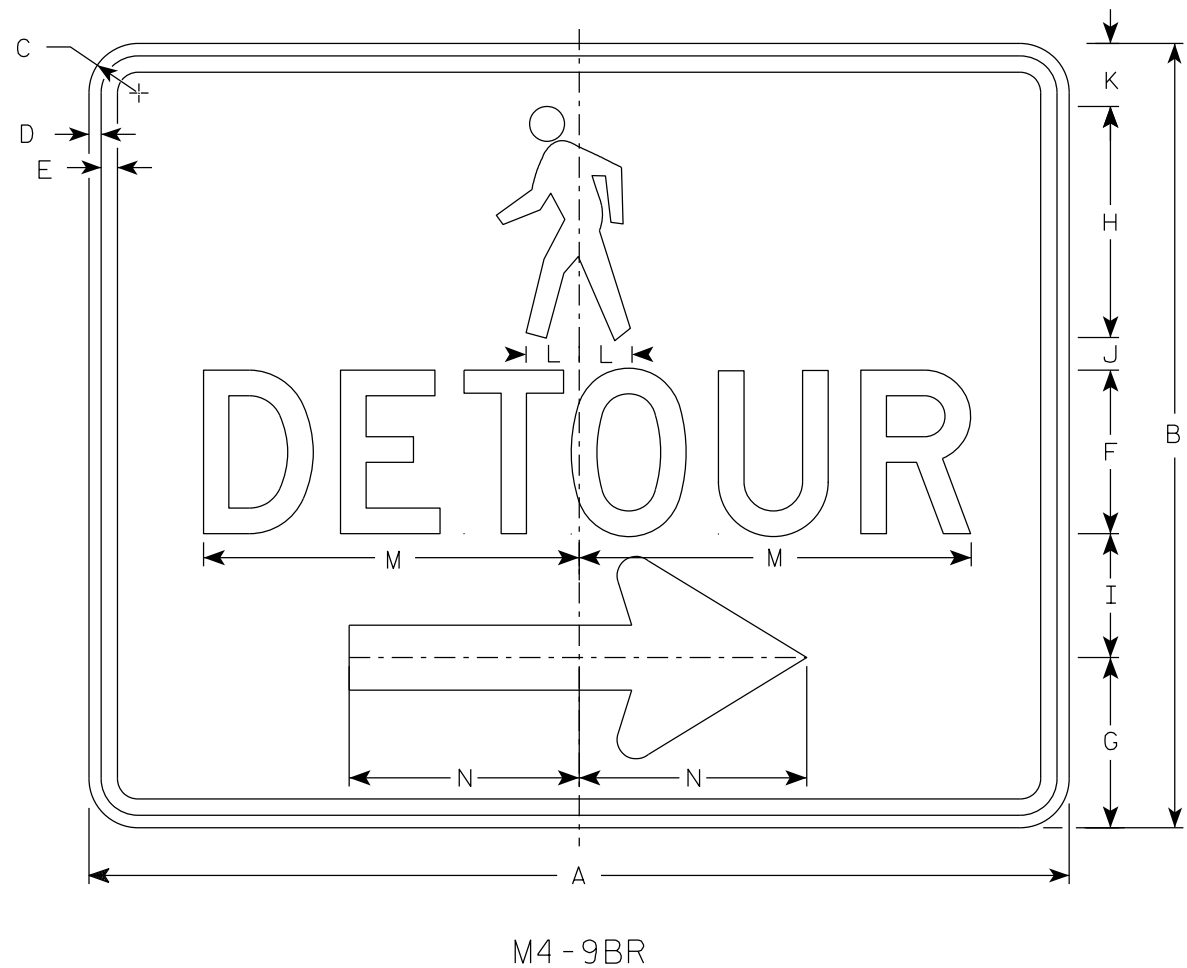
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

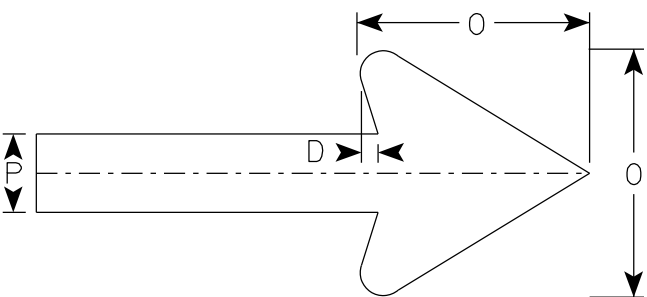
DATE 2/9/2023 PLATE NO. M4-8A.4

7



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

7

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	24	1 1/2	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											5.0
2M	30	24	1 1/2	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											5.0
3																											
4																											
5																											

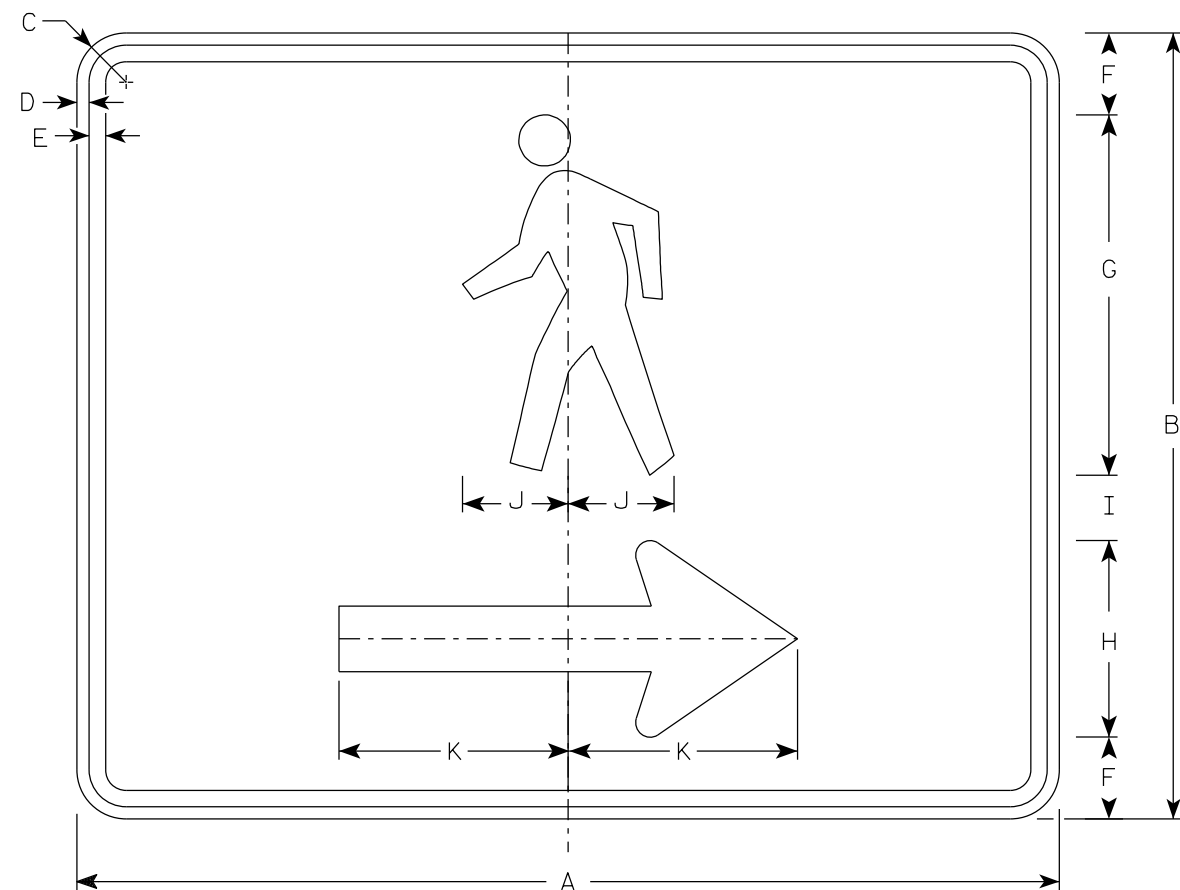
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9B.4

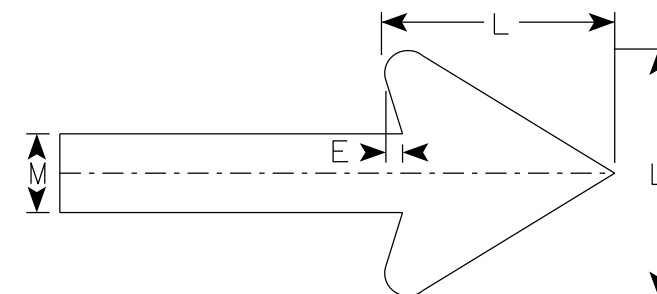
7



M4-60R

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
Background - Orange
Message - Black
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. M4-60L is the same as M4-60R except the arrow is reversed.

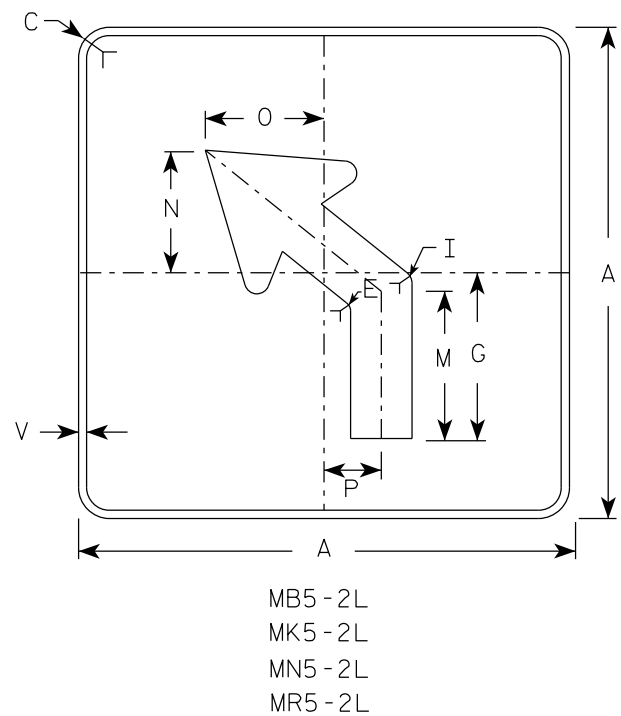
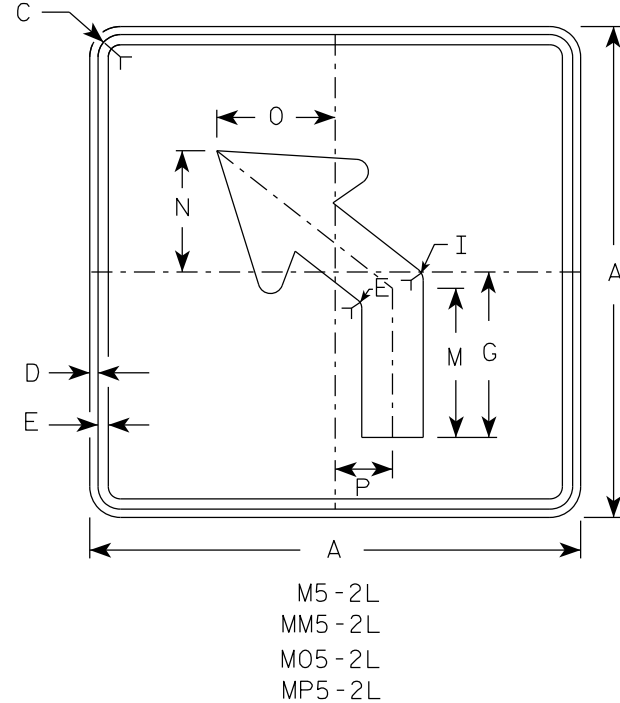
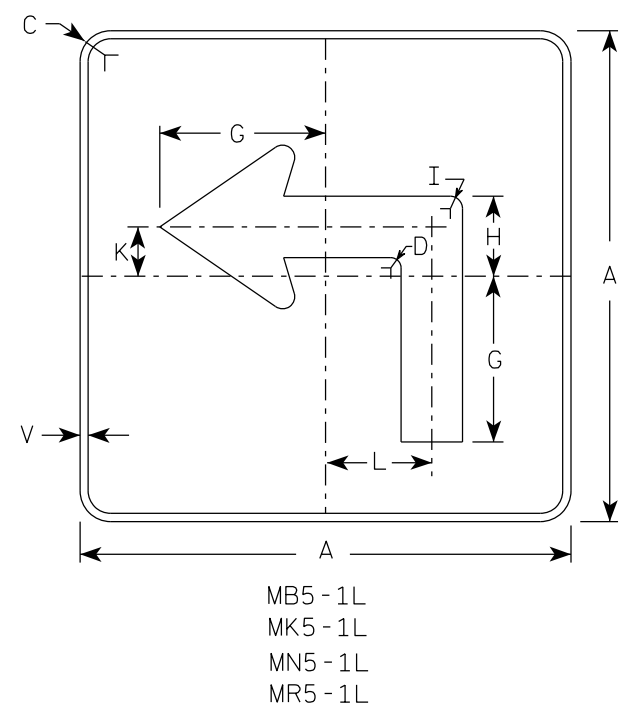
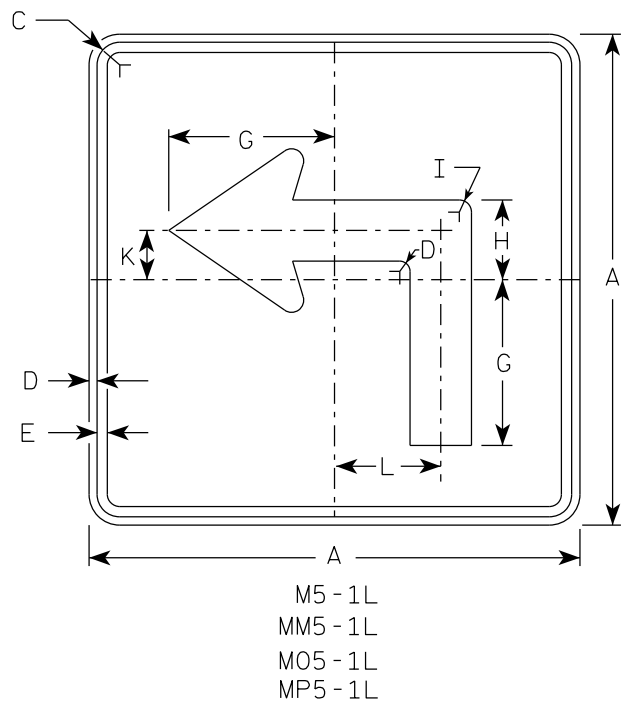


Arrow Detail

7

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	24	1 1/2	3/8	1/2	2 1/2	11	6	2	3 1/4	7	6	2														5.00
2M	30	24	1 1/2	3/8	1/2	2 1/2	11	6	2	3 1/4	7	6	2														5.00
3																											
4																											
5																											

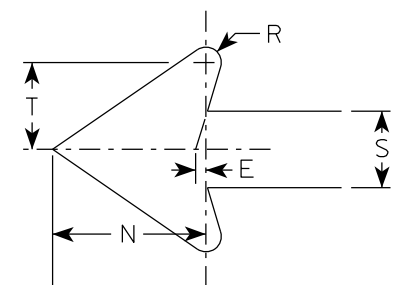
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 159	E
-------------	------	---------	---------------	---



NOTES

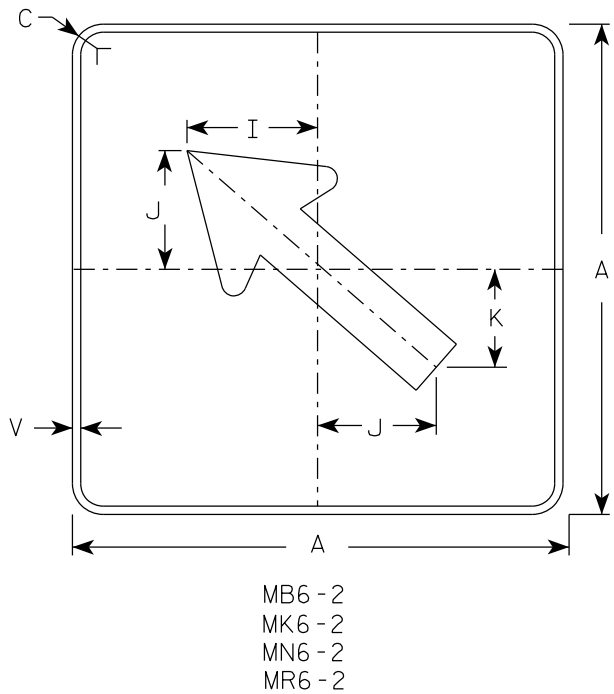
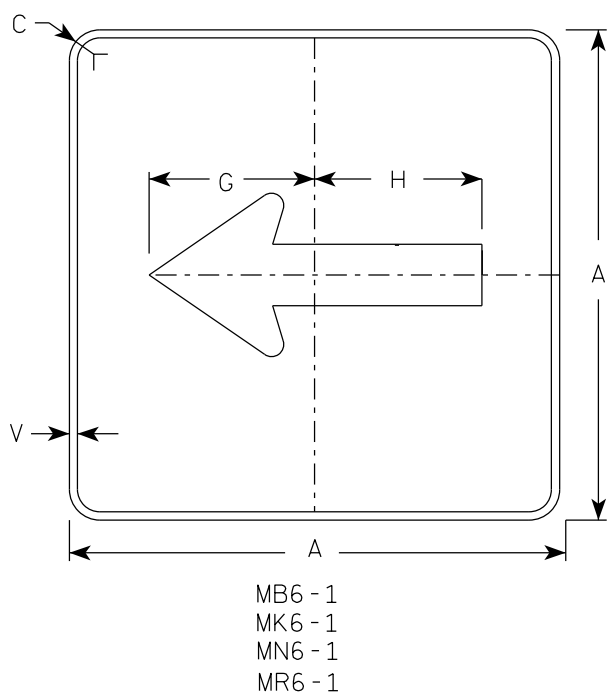
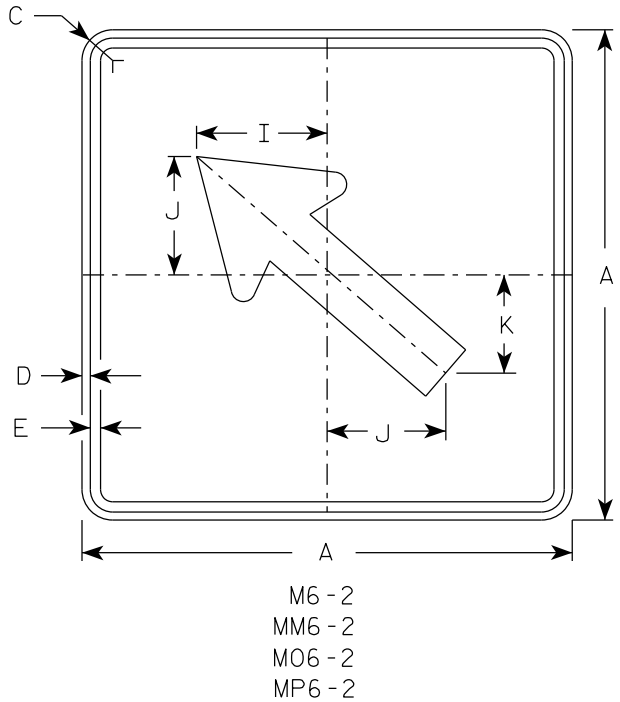
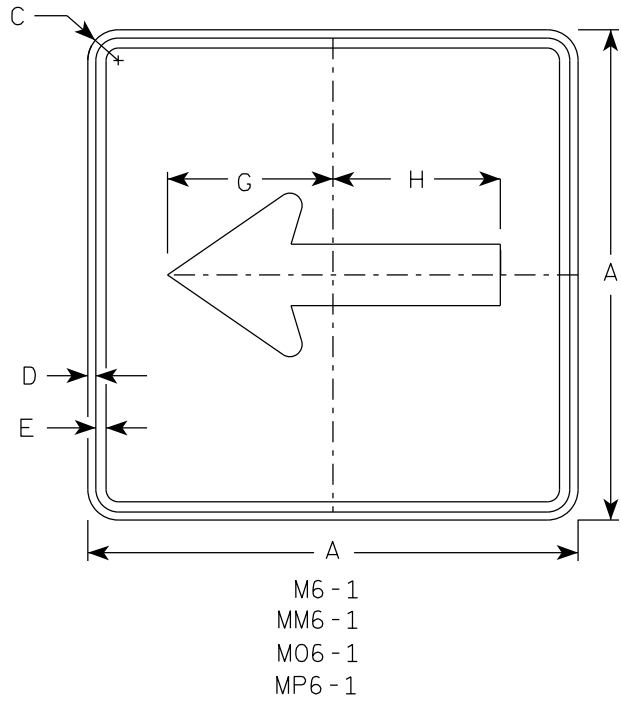
- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- | | | |
|-----------|-------|---|
| 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 |
| M05-1 and | M05-2 | Background - Orange - Type F Reflective |
| | | Message - Black |
| MP5-1 and | MP5-2 | Background - White |
| | | Message - Blue |
| MR5-1 and | MR5-2 | Background - Brown |
| | | Message - Yellow |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL

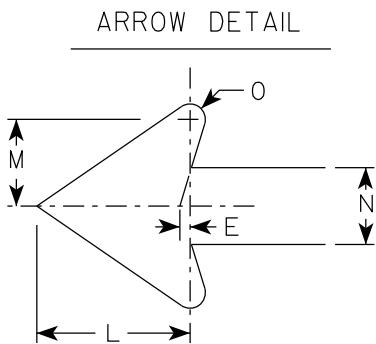


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	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		1/2					6.25
4	30		1 7/8	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		1/2					6.25
5	30		1 7/8	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		1/2					6.25

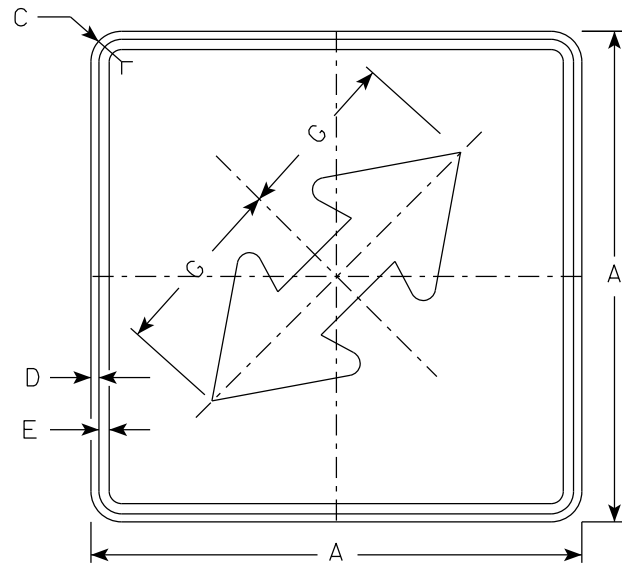
PROJECT NO:		HWY:		COUNTY:		SHEET NO: 160		E
-------------	--	------	--	---------	--	---------------	--	---



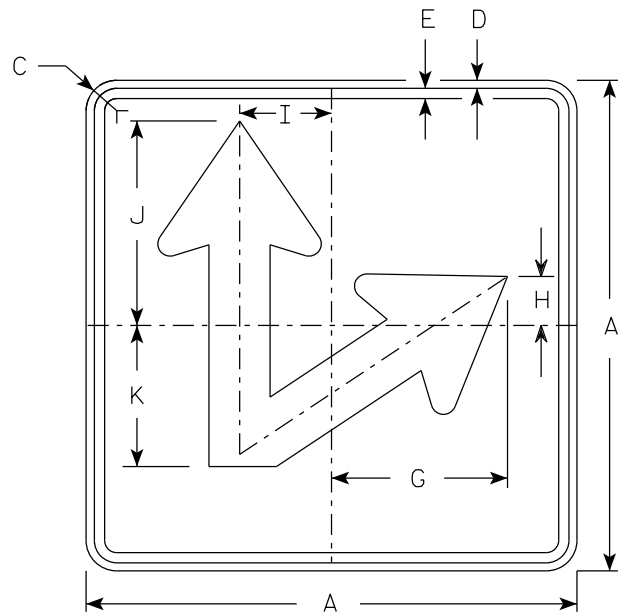
- NOTES**
- Signs are Type II - Type H Reflective except as Shown
 - Color:
Background - See note 4
Message - See note 4
 - Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
 - M6-1 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
M06-1 and M06-2 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



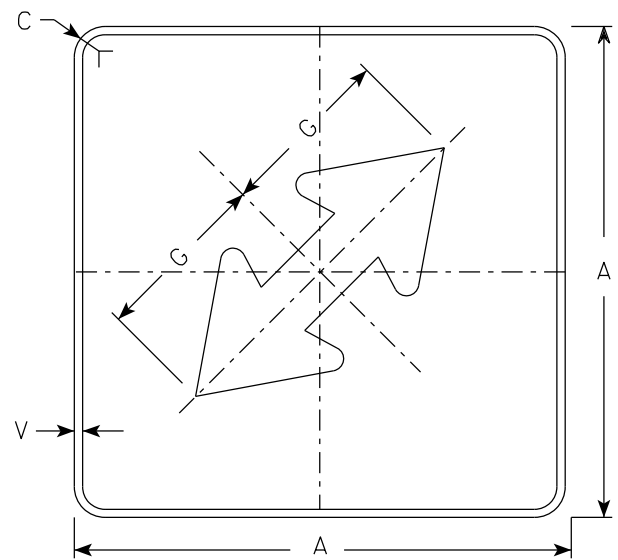
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	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							1/2					6.25
5	30		1 7/8	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							1/2					6.25



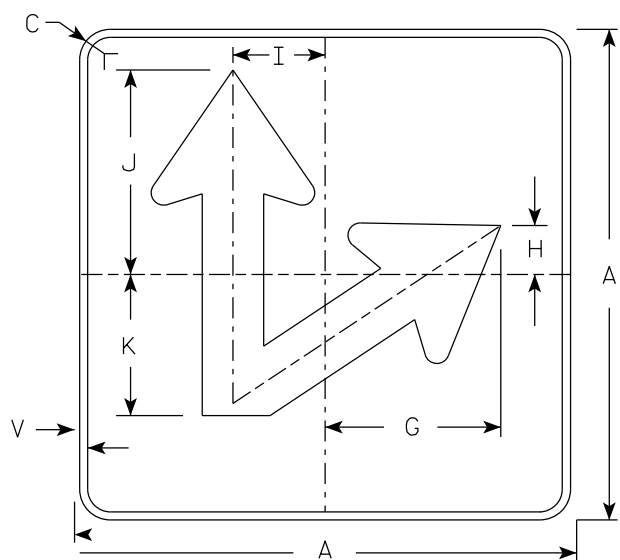
M6 -5
MM6 -5
M06 -5
MP6 -5



M6 -7R
MM6 -7R
M06 -7R
MP6 -7R



MB6 -5
MK6 -5
MN6 -5
MR6 -5

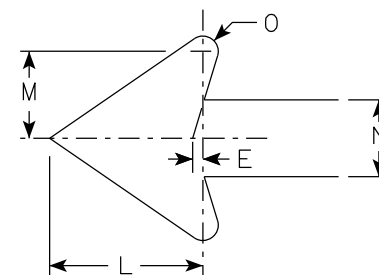


MB6 -7R
MK6 -7R
MN6 -7R
MR6 -7R

NOTES

- Sign is Type II - Type H Reflective except as Shown
- Color:
 - M6-5 and M6-7 Background - White
Message - Black
 - MB6-5 and MB6-7 Background - Blue
Message - White
 - MK6-5 and MK6-7 Background - Green
Message - White
 - MM6-5 and MM6-7 Background - White
Message - Green
 - MN6-5 and MN6-7 Background - Brown
Message - White
 - M06-5 and M06-7 Background - Orange - Type F Reflective
Message - Black
 - MP6-5 and MP6-7 Background - White
Message - Blue
 - MR6-5 and MR6-7 Background - Brown
Message - Yellow
- M6-7L same as M6-7R except arrow points ahead and left.

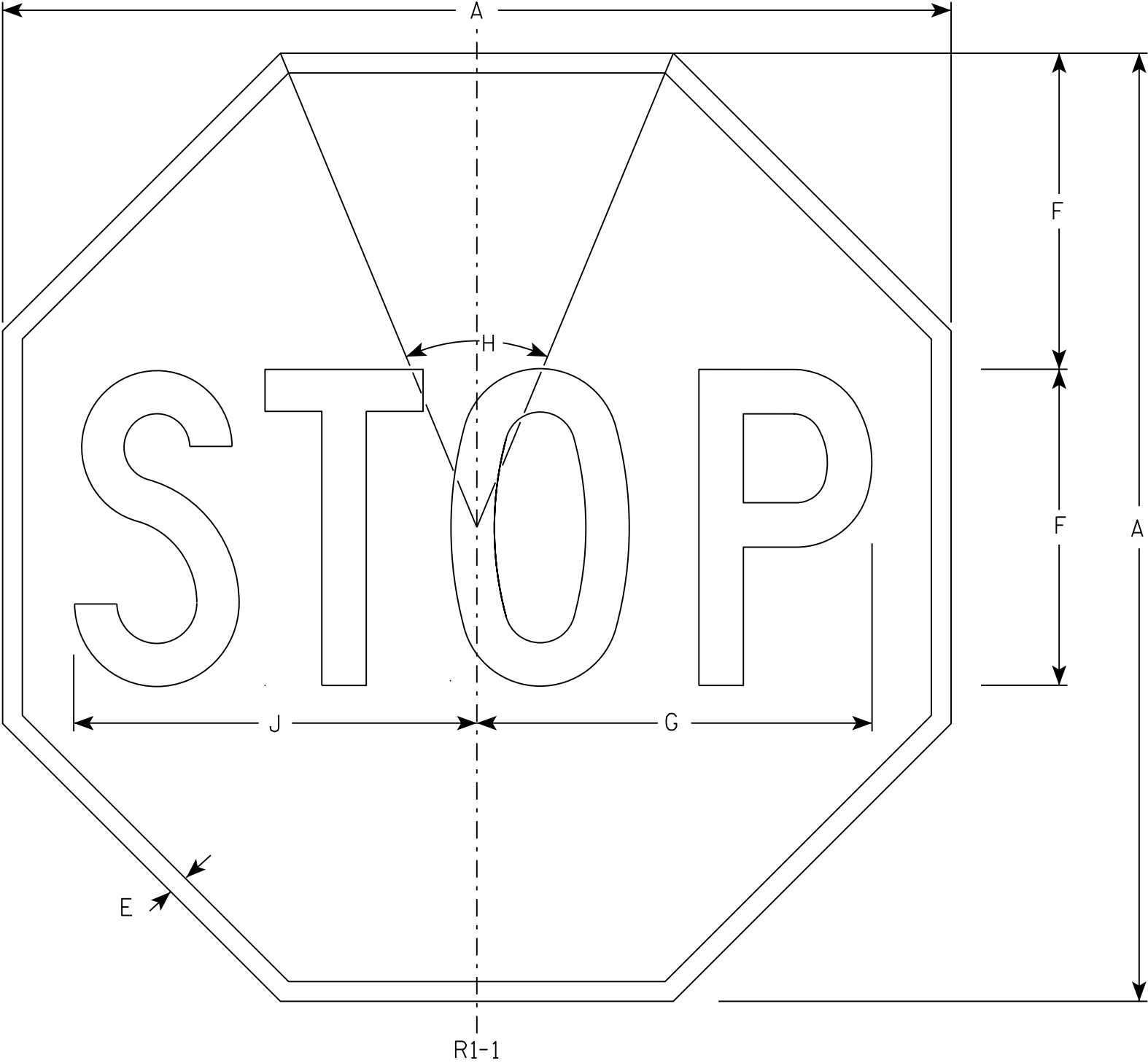
ARROW DETAIL



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																											
2S	21		1 1/2	3/8	3/8		7 1/2	2 1/8	4 1/4	8 3/4	6	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	2 1/8	4 1/4	8 3/4	6	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	3	6 3/4	12 1/2	8 5/8	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	3	6 3/4	12 1/2	8 5/8	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	3	6 3/4	12 1/2	8 5/8	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 162	E
-------------	------	---------	---------------	---

7



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

7

R1-1

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

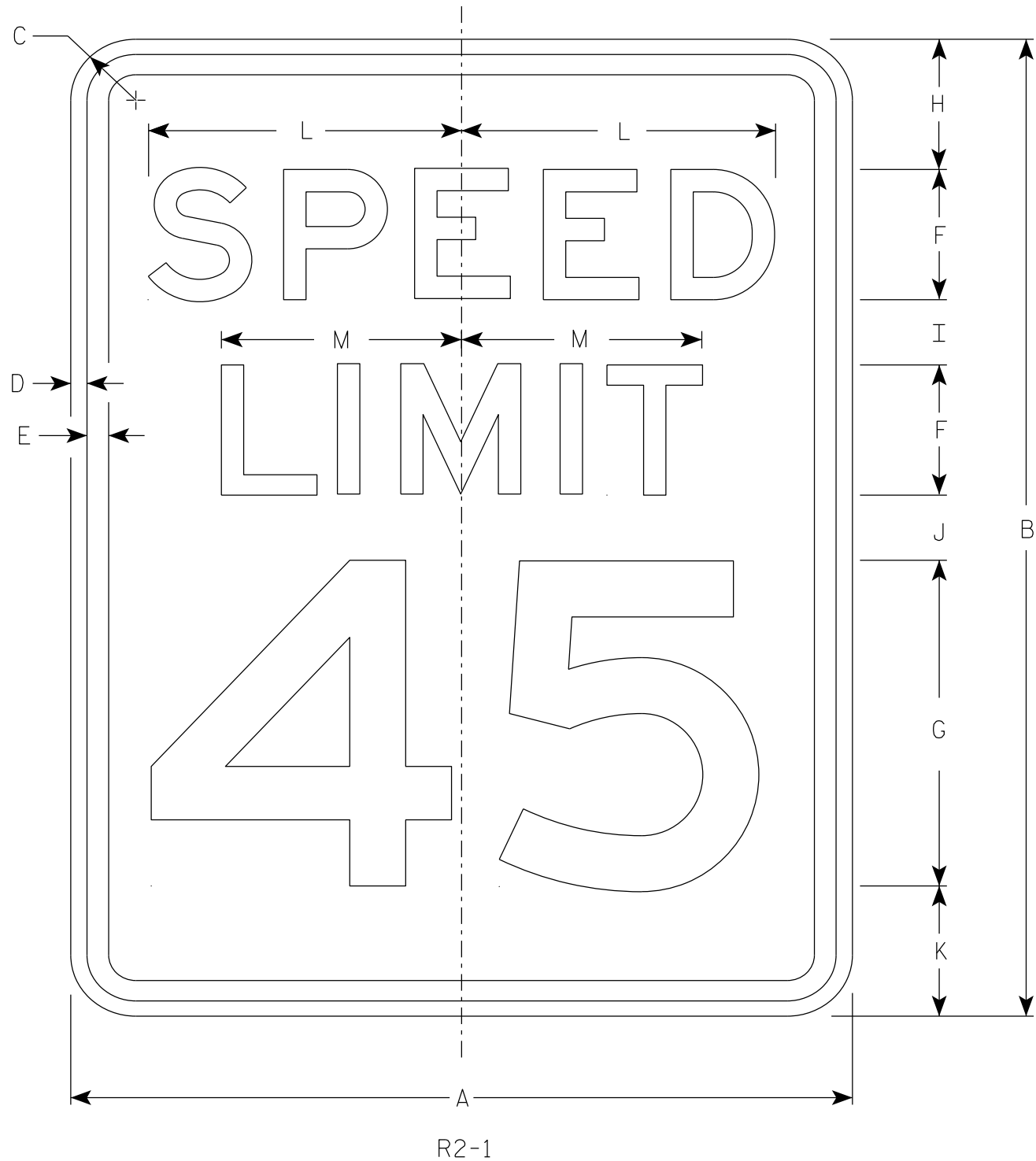
STANDARD SIGN
R1 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

7



NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - White
 - Message - Black
- 3. Message Series - E
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

7

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 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	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 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	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

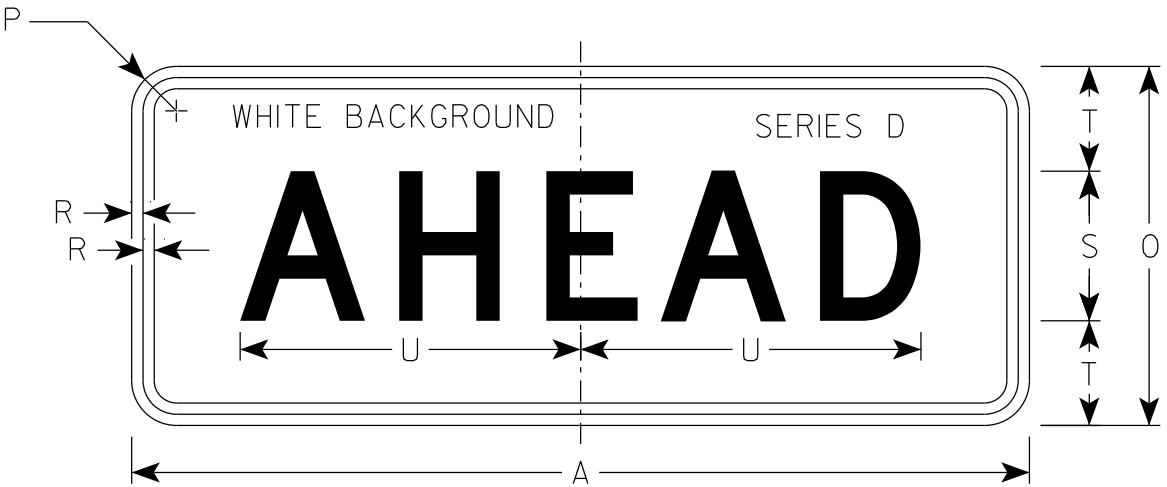
DATE 2/1/23 PLATE NO. R2-1.14



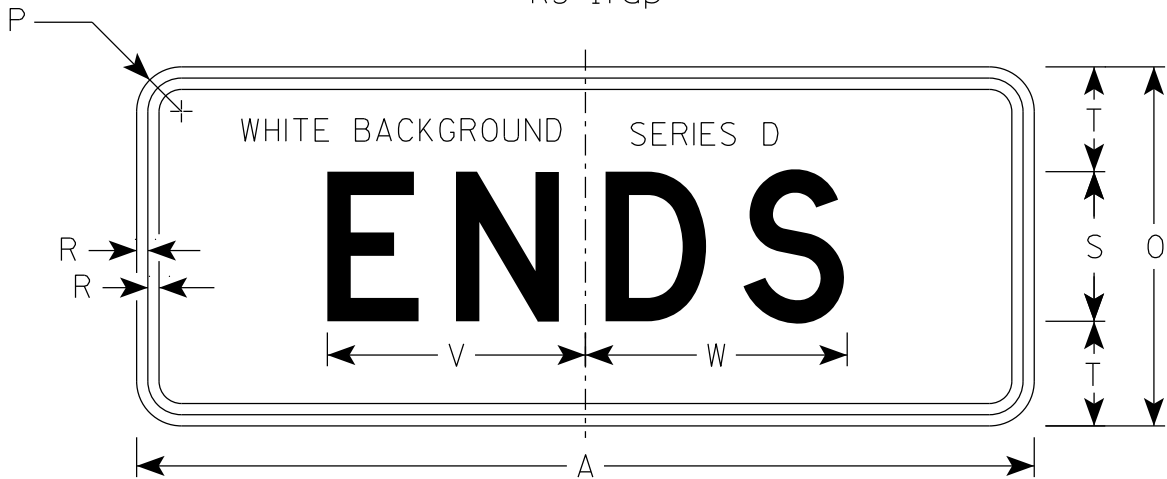
R3-17

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - AS SHOWN
Message - BLACK
- 3. Message Series - C or as noted



R3-17ap



R3-17bp

																												R3-17	R3-17ap	R3-17bp
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.	Area sq. ft.	Area sq. ft.	
1																														
2S	30	24	1 1/2	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/2	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5	
2M	30	24	1 1/2	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/2	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5	
3																														
4																														
5																														

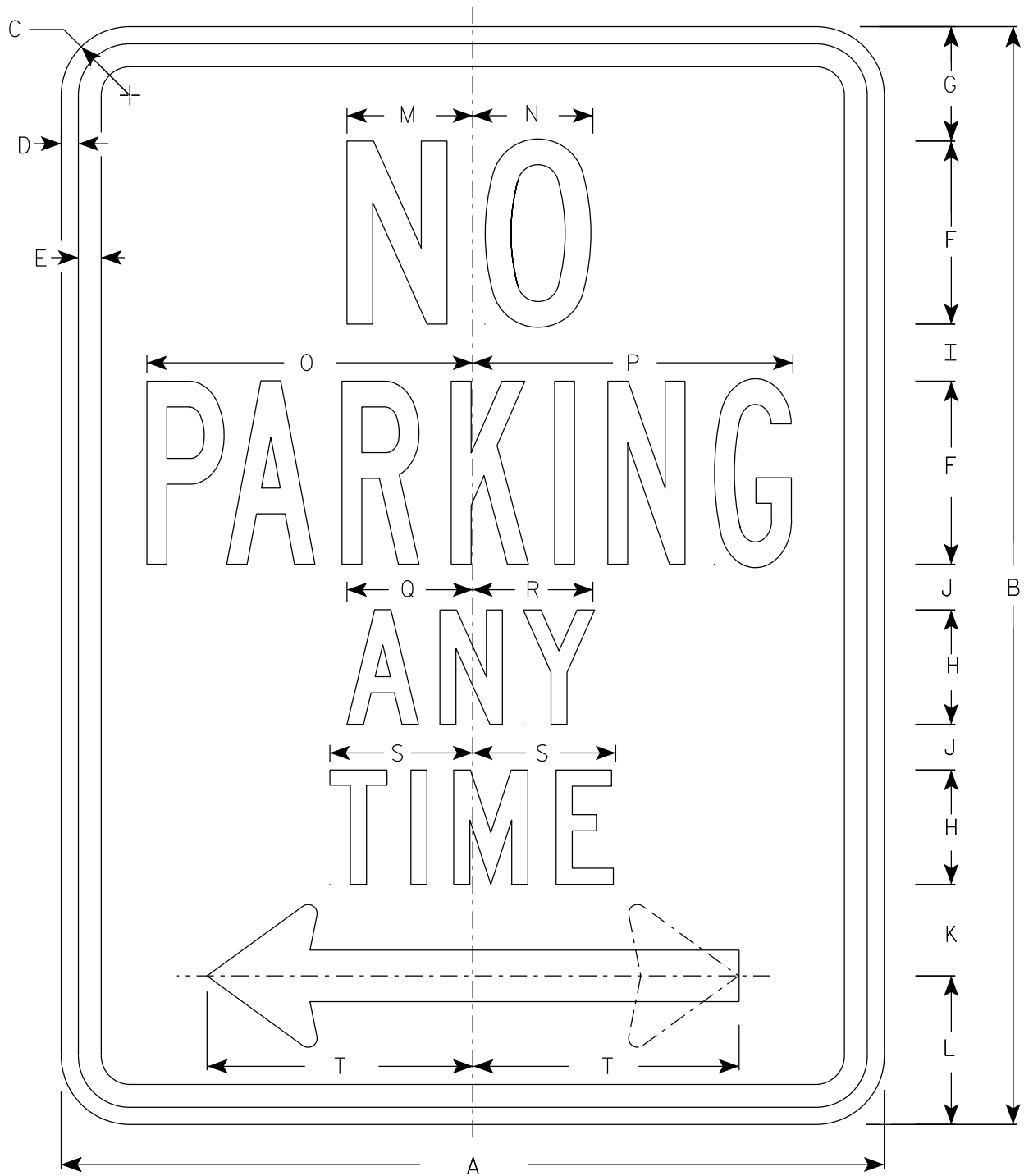
STANDARD SIGN

R3-17 & R3-17a&bp

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-17.3

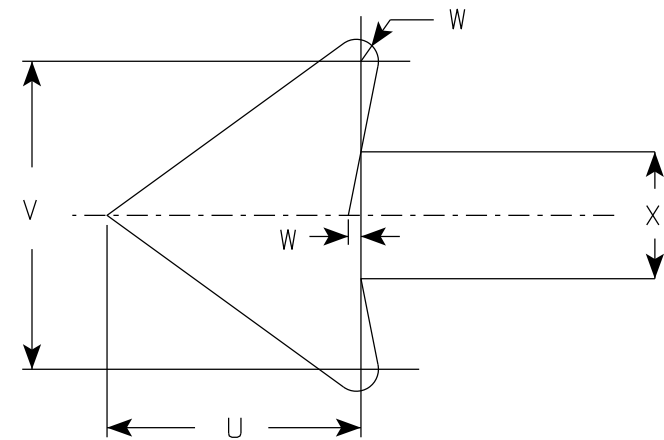


R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Red
3. Message Series - See Note 4
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
R7-1L (left arrow)
R7-1R (right arrow)

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	12	18	1 1/2	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 1/2	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 1/2	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 1/2	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

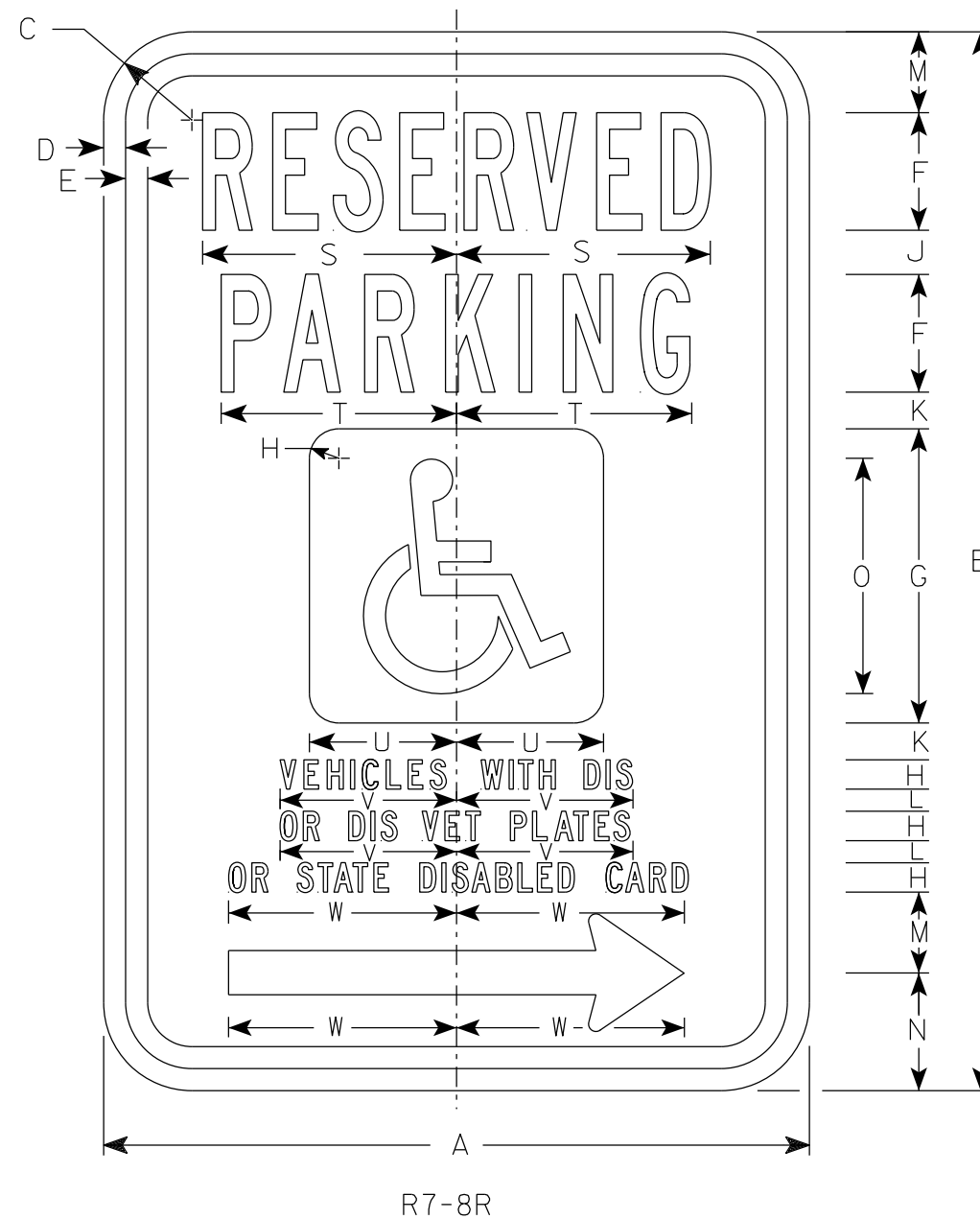
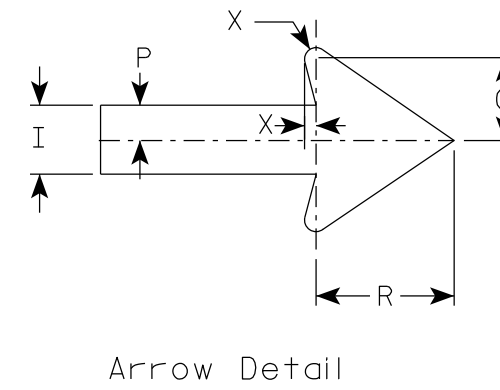
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 10/26/23 PLATE NO. R7-1.11

PROJECT NO: HWY: COUNTY: SHEET NO: 166 E

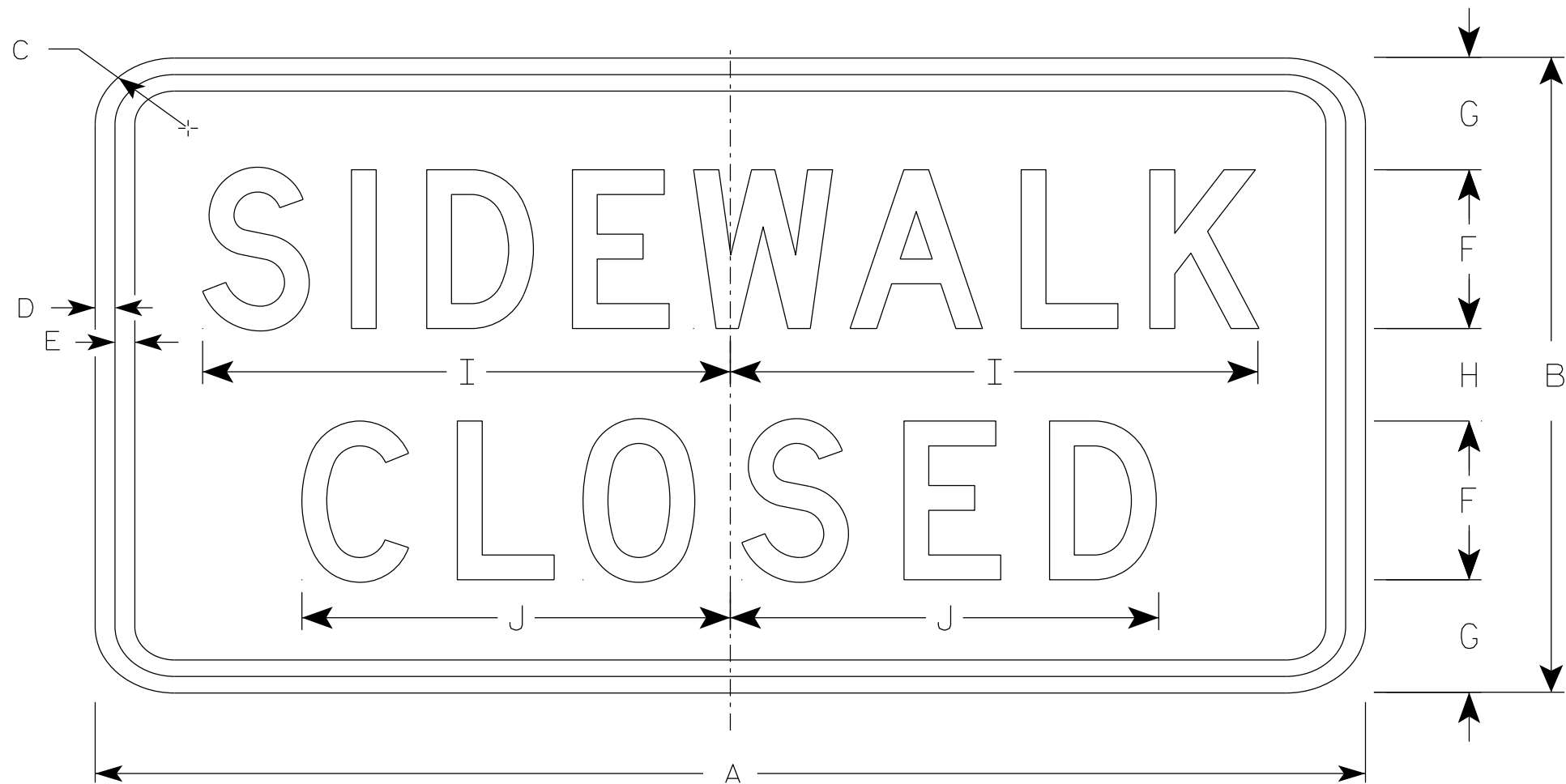
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
 - Background - Sign is white Type H Reflective; paraplegic background is blue.
 - Message - Legend and border are green; paraplegic symbol is white
3. Message Series - Lines 1 & 2 are Series B
Lines 3, 4, 5 & 6 are Series C
4. R7-8R (RIGHT ARROW)
R7-8L (LEFT ARROW)

[illegible]

STANDARD SIGN	
R7-8	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<u>Matthew R Rauch</u> for State Traffic Engineer
DATE <u>11/9/23</u>	PLATE NO. <u>R7-8.7</u>

7



R9-9

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - White
 - Message - Black
- 3. Message Series - C
- 4. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

7

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 1/2	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 1/2	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 1/2	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

PROJECT NO:

HWY:

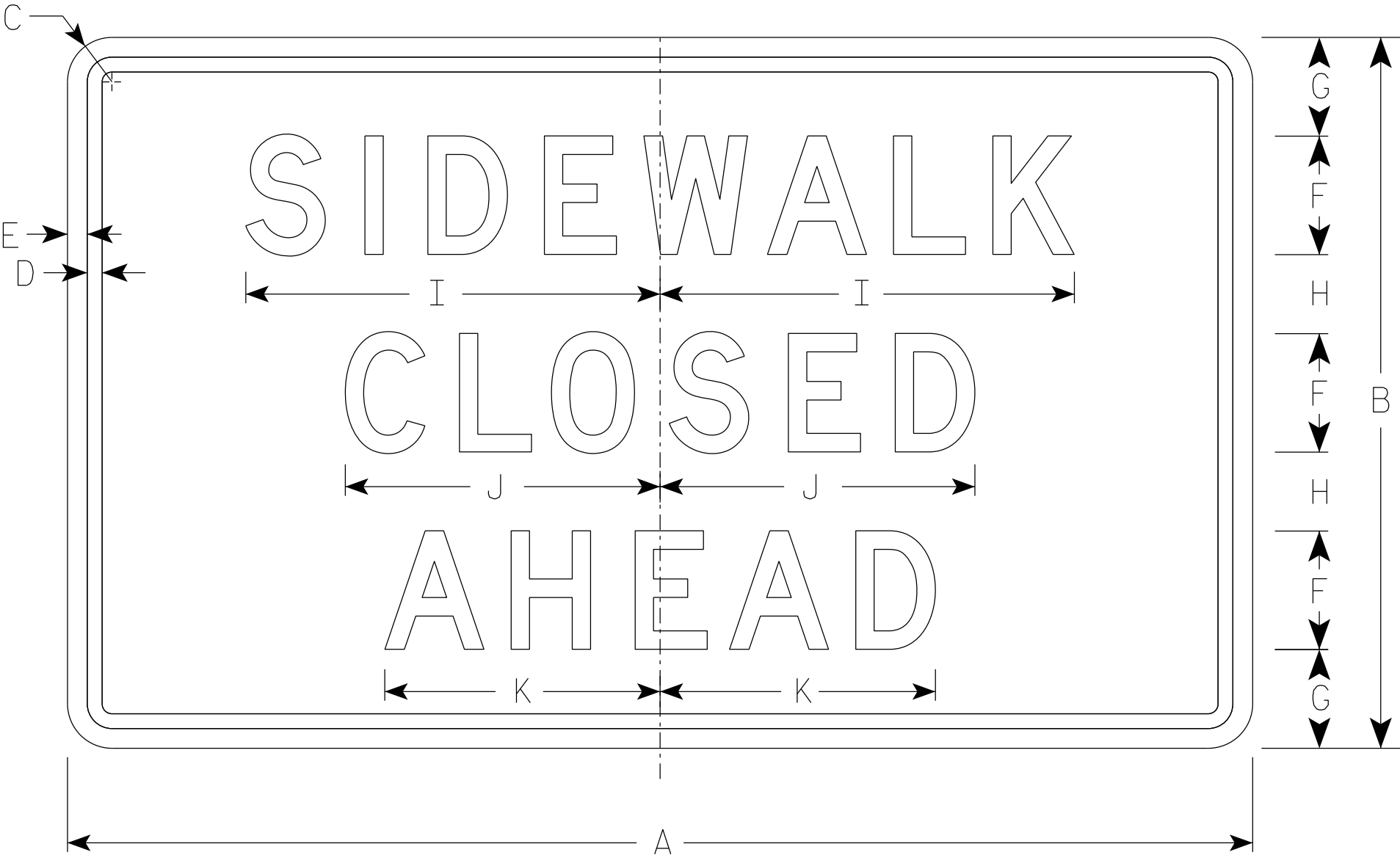
COUNTY:

SHEET NO: 168

E

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - White
 - Message - Black
- 3. Message Series - D



R9-9A

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	18	1 1/2	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
2M	30	18	1 1/2	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
3																											
4																											
5																											

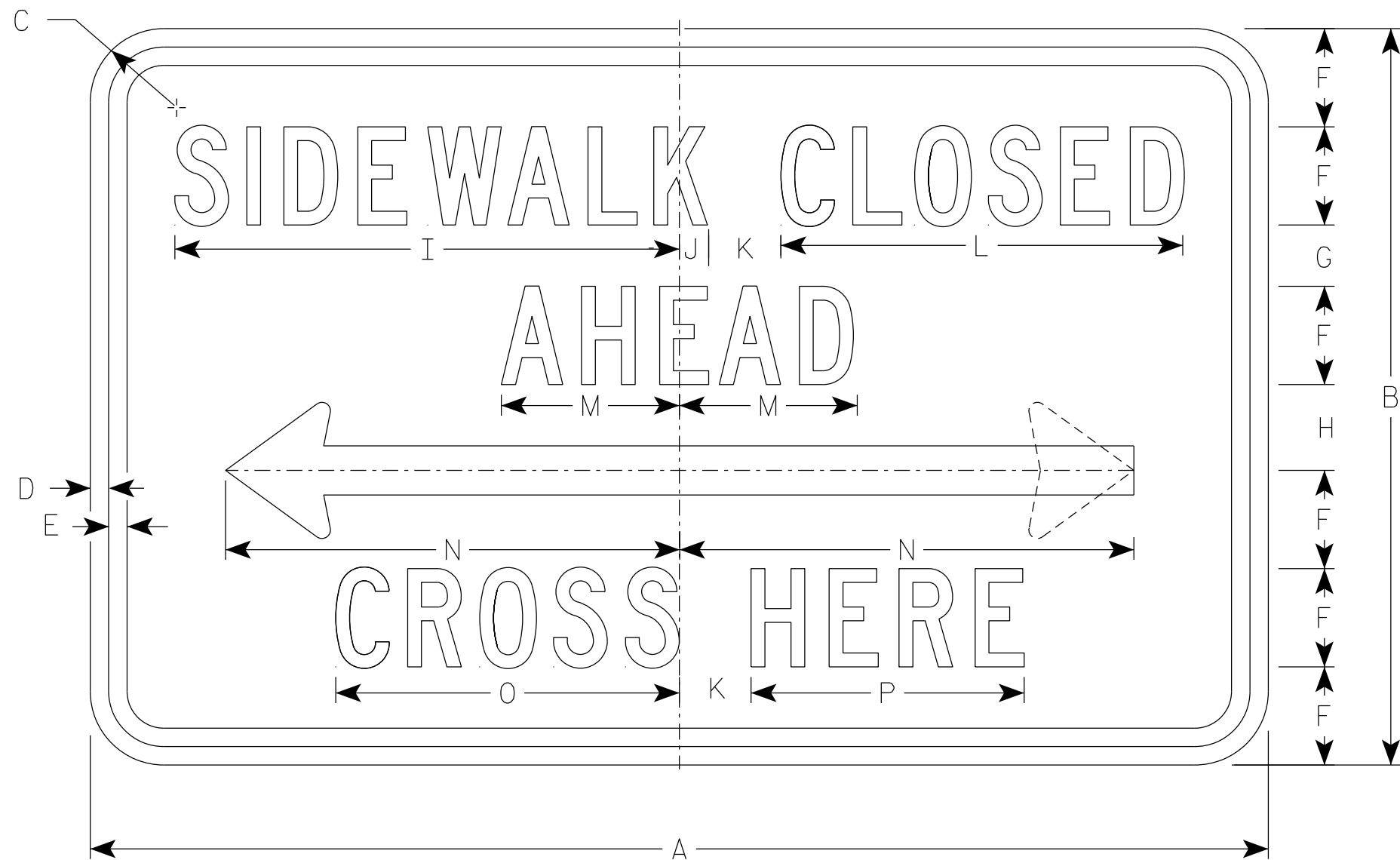
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 169

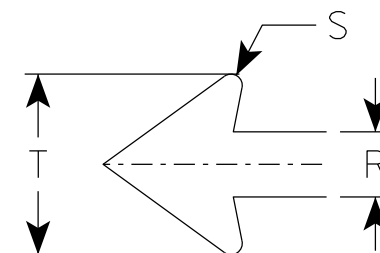
E



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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.
- 5. R9-11 D (double arrow)
R9-11 L (left arrow)
R9-11 R (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																											
2S	24	12	1 1/2	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 1/2	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 1/2	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																											

PROJECT NO:

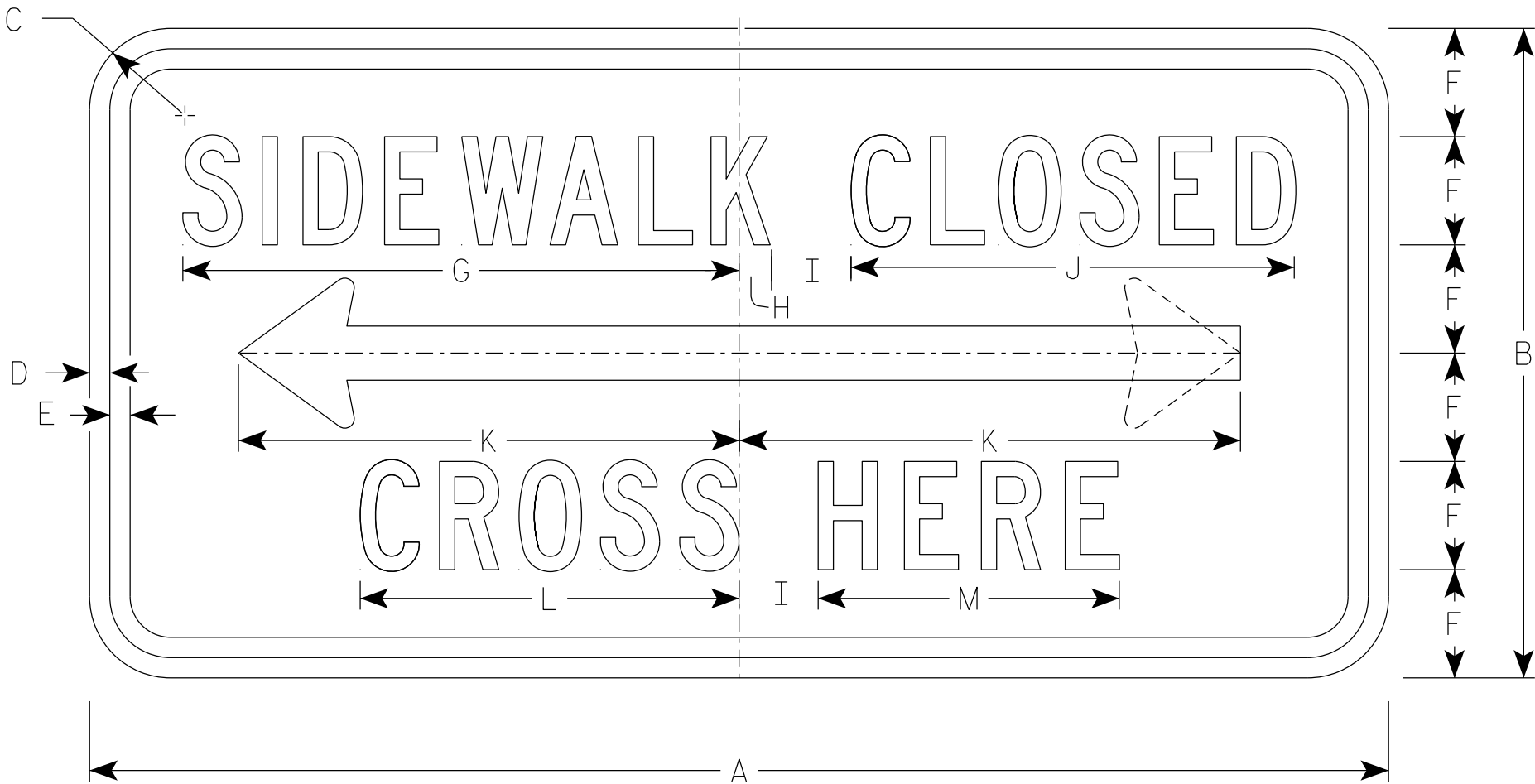
HWY:

COUNTY:

SHEET NO: 170

E

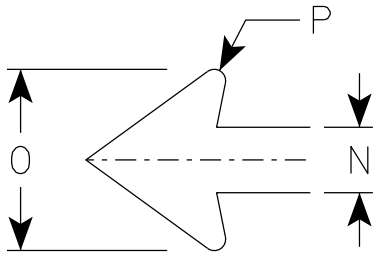
7



R9-11A

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - White
 - Message - Black
- 3. Message Series - C
- 4. Use Size 2 for Sidewalks. Use Size 3 for paths and Trails.
- 5. R9-11AD (double arrow)
R9-11AL (left arrow)
R9-11AR (right arrow)



ARROW DETAIL

7

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 1/2	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
2M	24	12	1 1/2	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
3	30	15	1 1/2	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	8 5/8	6 3/4	1 1/4	3 5/8	1/4											3.125
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 171

E



R10-71



R10-71L



R10-71R

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
 - Background - White
 - 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.

																												R10-71L&R	R10-71
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.	Area sq. ft.	
1																													
2S	72	36	3	¾	1	18	5	4	6	20 ⅝	11 ¾	9 ⅛	8 ½	12 ⅞	9 ⅞	16 ⅛	23 ⅞	30	5 ⅝	26 ¾	66	23 ⅝	8 ¾	13	26 ⅞	27	18.0	16.5	
2M	72	36	3	¾	1	18	5	4	6	20 ⅝	11 ¾	9 ⅛	8 ½	12 ⅞	9 ⅞	16 ⅛	23 ⅞	30	5 ⅝	26 ¾	66	23 ⅝	8 ¾	13	26 ⅞	27	18.0	16.5	
3																													
4																													
5																													

STANDARD SIGN

R10-71

WISCONSIN DEPT OF TRANSPORTATION

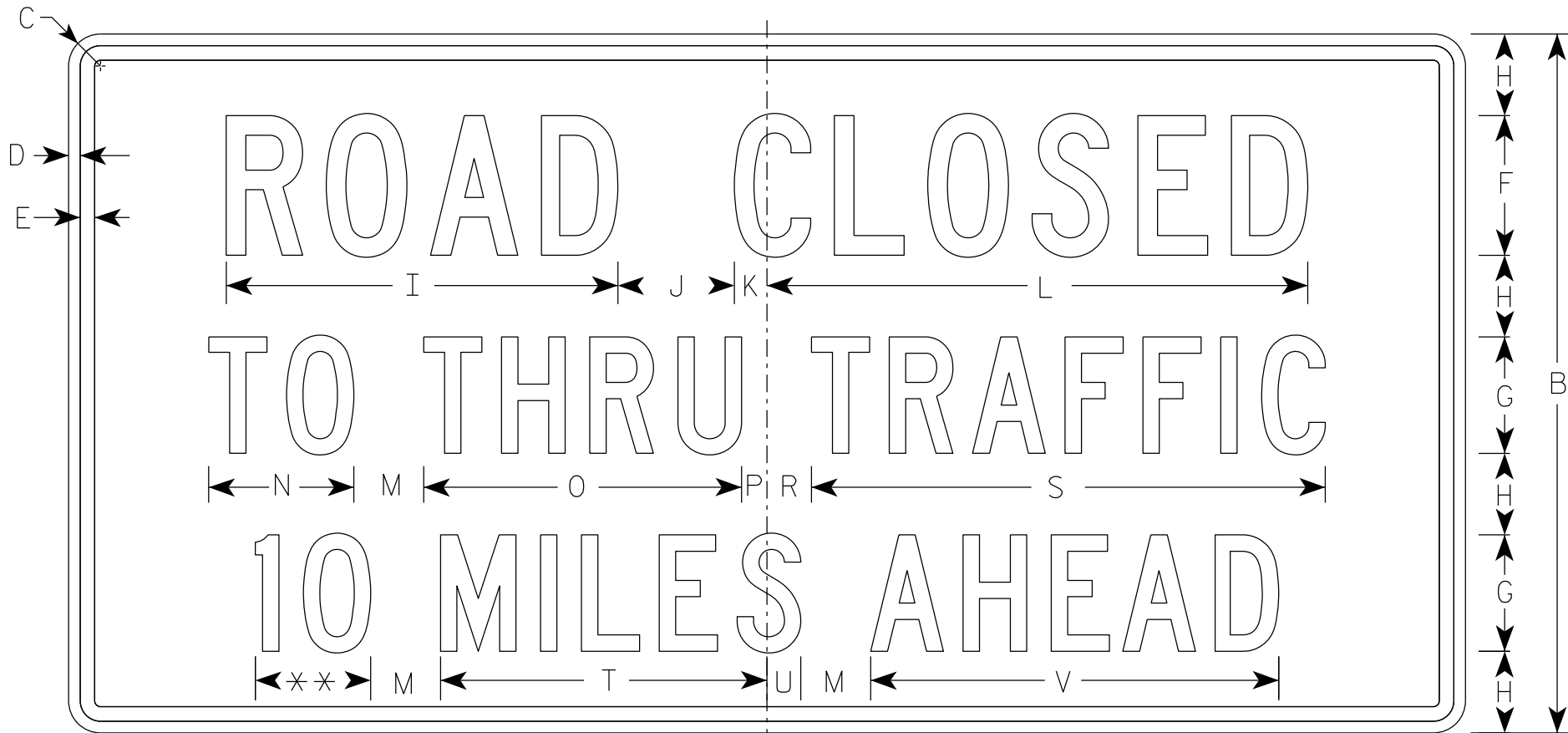
APPROVED *Matthew R. Rauch*

For State Traffic Engineer

DATE 2/5/24

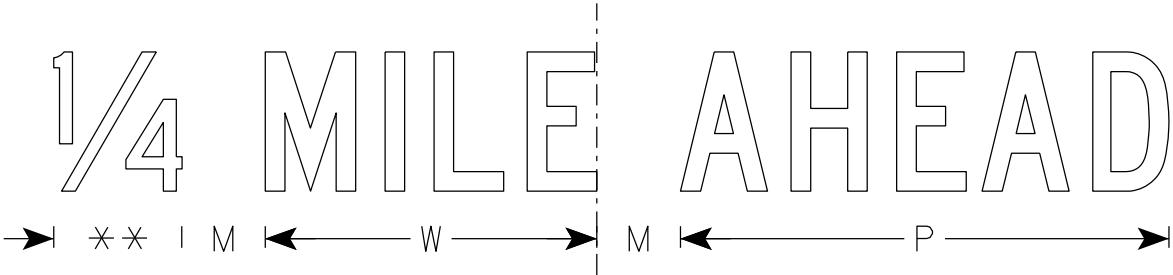
PLATE NO. R10-71.4

7



R11-3

** See Note 5



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	18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 173

E

NOTES

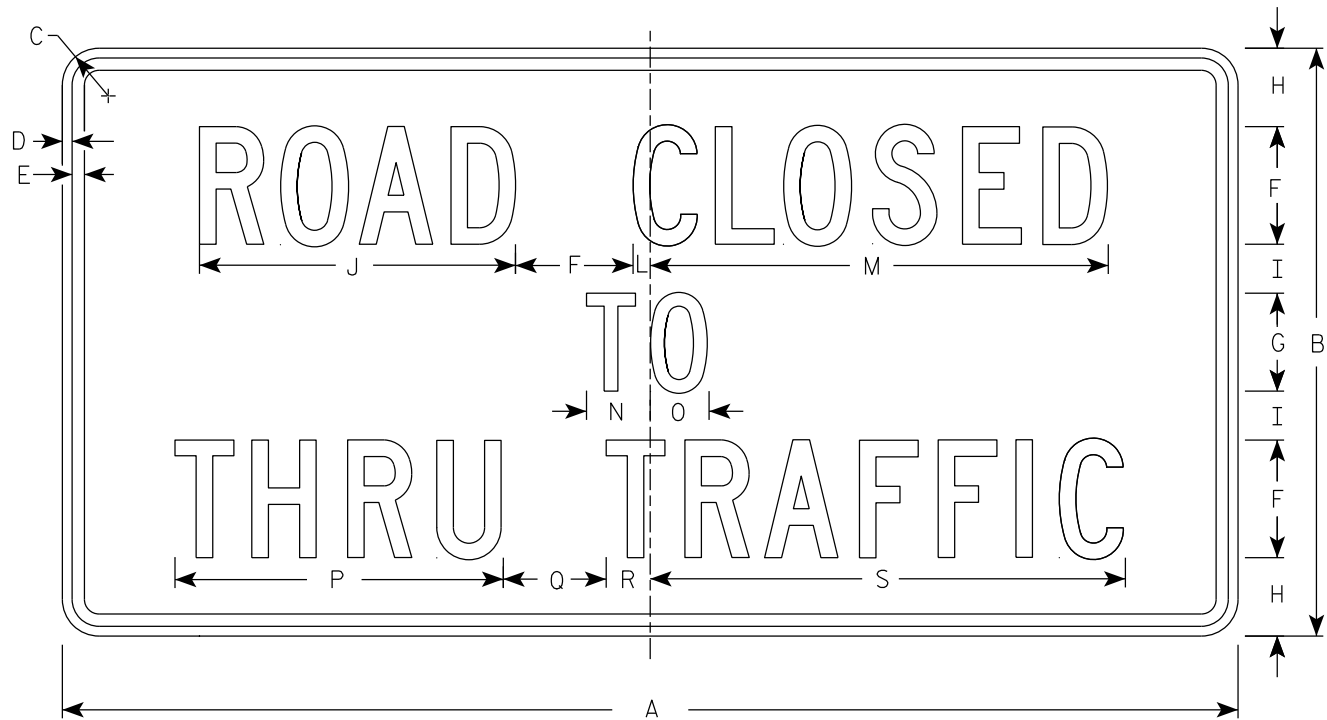
1. Sign is Type II - Type H Reflective
2. Color:

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. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

7

7



R11-4

NOTES

- 1. Sign is Type II - Type H Reflective
- 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.

7

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	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

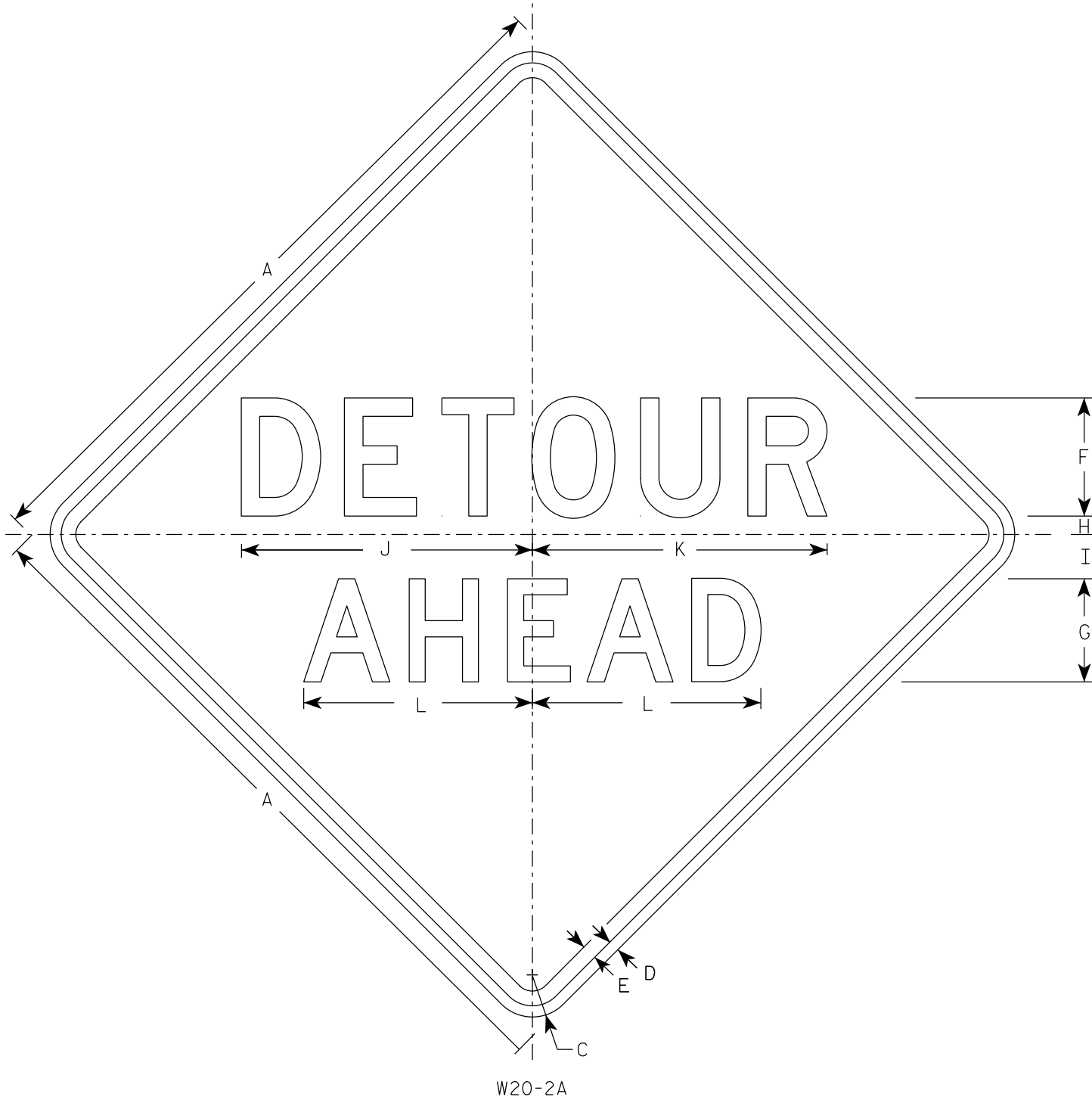
PROJECT NO:

HWY:

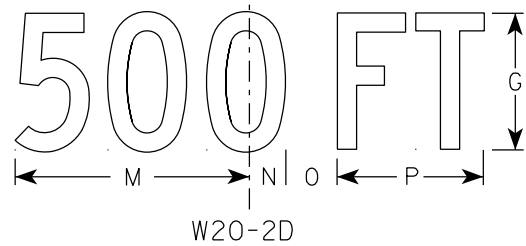
COUNTY:

SHEET NO: 174

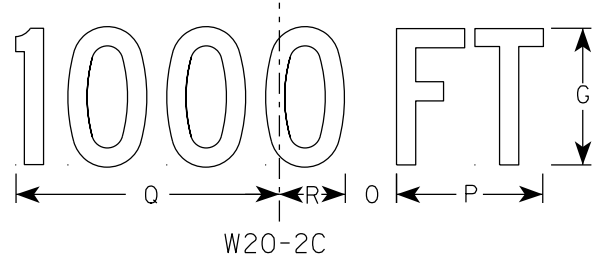
E



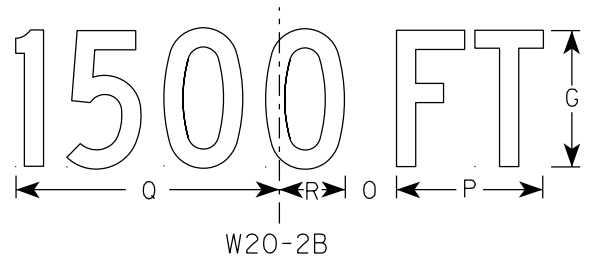
W20-2A



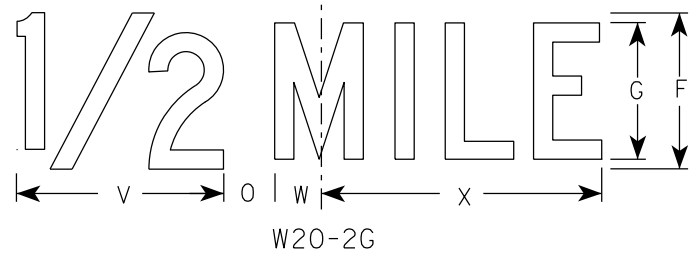
W20-2D



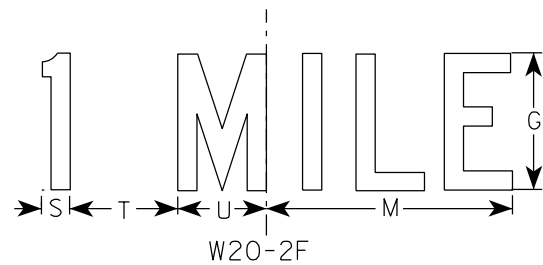
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
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		2 1/4	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		3	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		3	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		3	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		3	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		3	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 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:

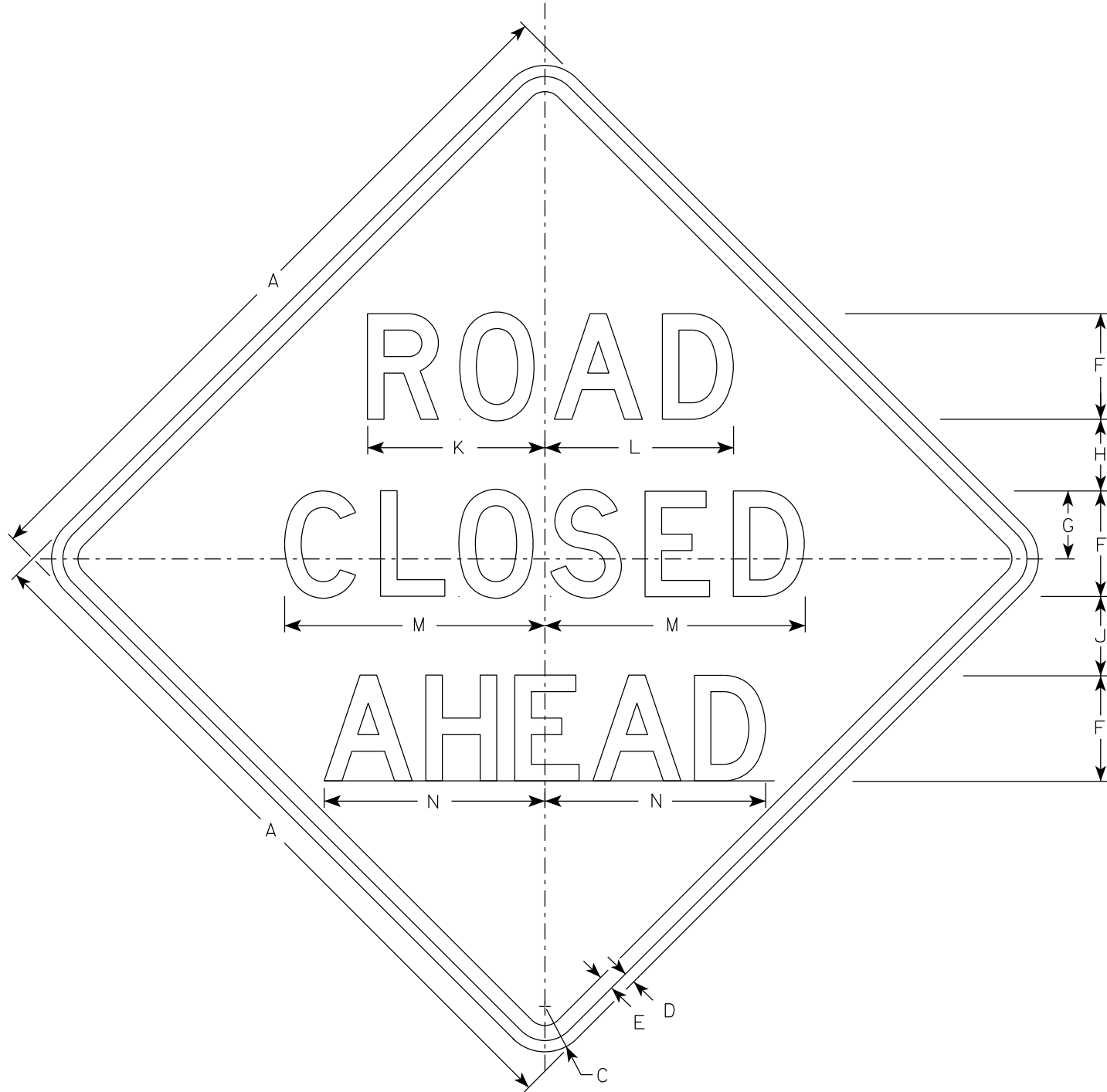
HWY:

COUNTY:

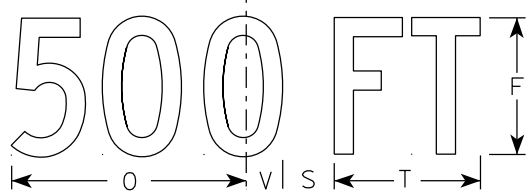
SHEET NO: 175

E

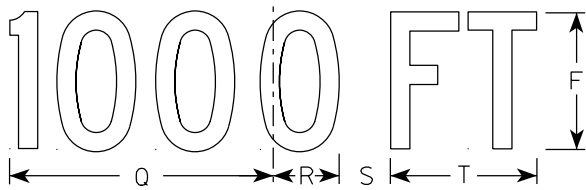
7



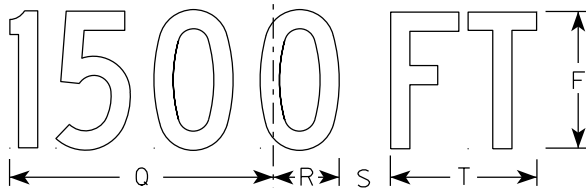
W20-3A



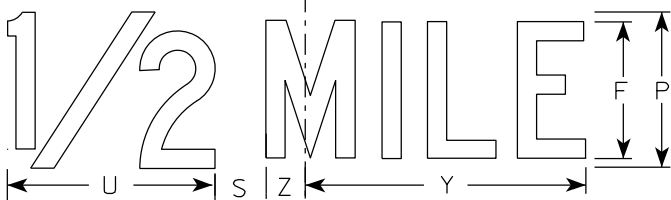
W20-3D



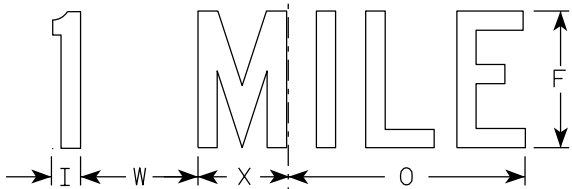
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

- 1. Sign is Type II - Type F Reflective
- 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. Lines 1 and 2 are Series D.
Line 3 is Series D for AHEAD and Series C for all other distances.

7

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		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

DIVISION 1 - MADISON STREET

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
101+70.00	10170.00	0.00	96.15	0.03	0	0	0	0	0
101+85.77	10185.77	15.77	99.89	0.08	57	0	57	0	57
101+91.91	10191.91	6.14	109.54	0.00	24	0	81	0	81
102+00.00	10200.00	8.09	123.68	0.19	35	0	116	0	116
102+05.77	10205.77	5.77	145.80	0.02	29	0	145	0	145
102+22.00	10222.00	16.23	171.07	0.00	95	0	240	0	240
102+31.79	10231.79	9.79	165.70	0.00	61	0	301	0	301
102+48.79	10248.79	17	104.81	0.00	85	0	386	0	386
102+50.00	10250.00	1.21	109.64	0.00	5	0	391	0	391
102+75.00	10275.00	25	124.07	0.43	108	0	499	0	499
103+00.00	10300.00	25	106.97	0.30	107	0	606	0	606
103+18.00	10318.00	18	135.18	0.00	81	0	687	0	687
103+50.00	10350.00	32	105.62	0.98	143	1	830	1	829
103+89.00	10389.00	39	131.45	0.00	171	1	1001	3	999
104+00.00	10400.00	11	120.79	0.60	51	0	1052	3	1050
104+25.00	10425.00	25	118.27	0.95	111	1	1163	4	1159
104+50.00	10450.00	25	103.65	0.92	103	1	1266	5	1261
104+84.00	10484.00	34	109.19	0.56	134	1	1400	6	1394
104+93.00	10493.00	9	114.70	0.00	37	0	1437	6	1431
105+00.00	10500.00	7	98.12	1.16	28	0	1465	6	1459
105+50.00	10550.00	50	103.68	0.10	187	1	1652	8	1645
105+65.28	10565.28	15.28	87.71	0.17	54	0	1706	8	1699
105+75.00	10575.00	9.72	99.63	0.62	34	0	1740	8	1733
105+85.28	10585.28	10.28	175.64	0.00	52	0	1792	8	1785
105+97.02	10597.02	11.74	194.02	0.00	80	0	1872	8	1865
106+00.00	10600.00	2.98	193.50	0.00	21	0	1893	8	1886
106+11.28	10611.28	11.28	177.55	0.86	78	0	1971	8	1964
106+25.00	10625.00	13.72	99.04	0.14	70	0	2041	8	2034
106+28.28	10628.28	3.28	94.30	0.00	12	0	2053	8	2046
106+50.00	10650.00	21.72	104.34	0.16	80	0	2133	8	2126
106+62.00	10662.00	12	121.71	0.10	50	0	2183	8	2176
107+00.00	10700.00	38	117.86	0.14	169	0	2352	8	2345
107+50.00	10750.00	50	109.34	0.28	210	0	2562	8	2555
107+65.00	10765.00	15	127.03	0.10	66	0	2628	8	2621
107+88.00	10788.00	23	126.37	0.06	108	0	2736	8	2729
108+00.00	10800.00	12	115.79	0.52	54	0	2790	8	2783
108+11.00	10811.00	11	123.69	0.18	49	0	2839	8	2832
108+50.00	10850.00	39	107.25	0.81	167	1	3006	9	2997
108+75.00	10875.00	25	121.91	0.03	106	0	3112	9	3103
109+00.00	10900.00	25	112.42	0.15	108	0	3220	9	3211
109+50.00	10950.00	50	105.89	0.00	202	0	3422	9	3413
109+52.77	10952.77	2.77	98.47	0.03	10	0	3432	9	3423
109+62.50	10962.50	9.73	121.63	0.11	40	0	3472	9	3463
109+69.67	10969.67	7.17	145.18	0.00	35	0	3507	9	3498
109+75.00	10975.00	5.33	141.58	0.04	28	0	3535	9	3526
109+82.90	10982.90	7.9	143.54	0.05	42	0	3577	9	3568
109+97.37	10997.37	14.47	191.17	0.00	90	0	3667	9	3658
110+00.00	11000.00	2.63	177.82	0.05	18	0	3685	9	3676
110+10.00	11010.00	10	130.11	0.00	57	0	3742	9	3733
110+24.22	11024.22	14.22	102.37	0.00	61	0	3803	9	3794
110+50.00	11050.00	25.78	107.78	1.28	100	1	3903	10	3893
111+00.00	11100.00	50	123.24	0.00	214	1	4117	11	4106
111+10.00	11110.00	10	140.24	0.00	49	0	4166	11	4155
111+50.00	11150.00	40	109.81	0.18	185	0	4351	11	4340
111+62.00	11162.00	12	125.07	0.16	52	0	4403	11	4392

(CONTINUED ON NEXT SHEET)

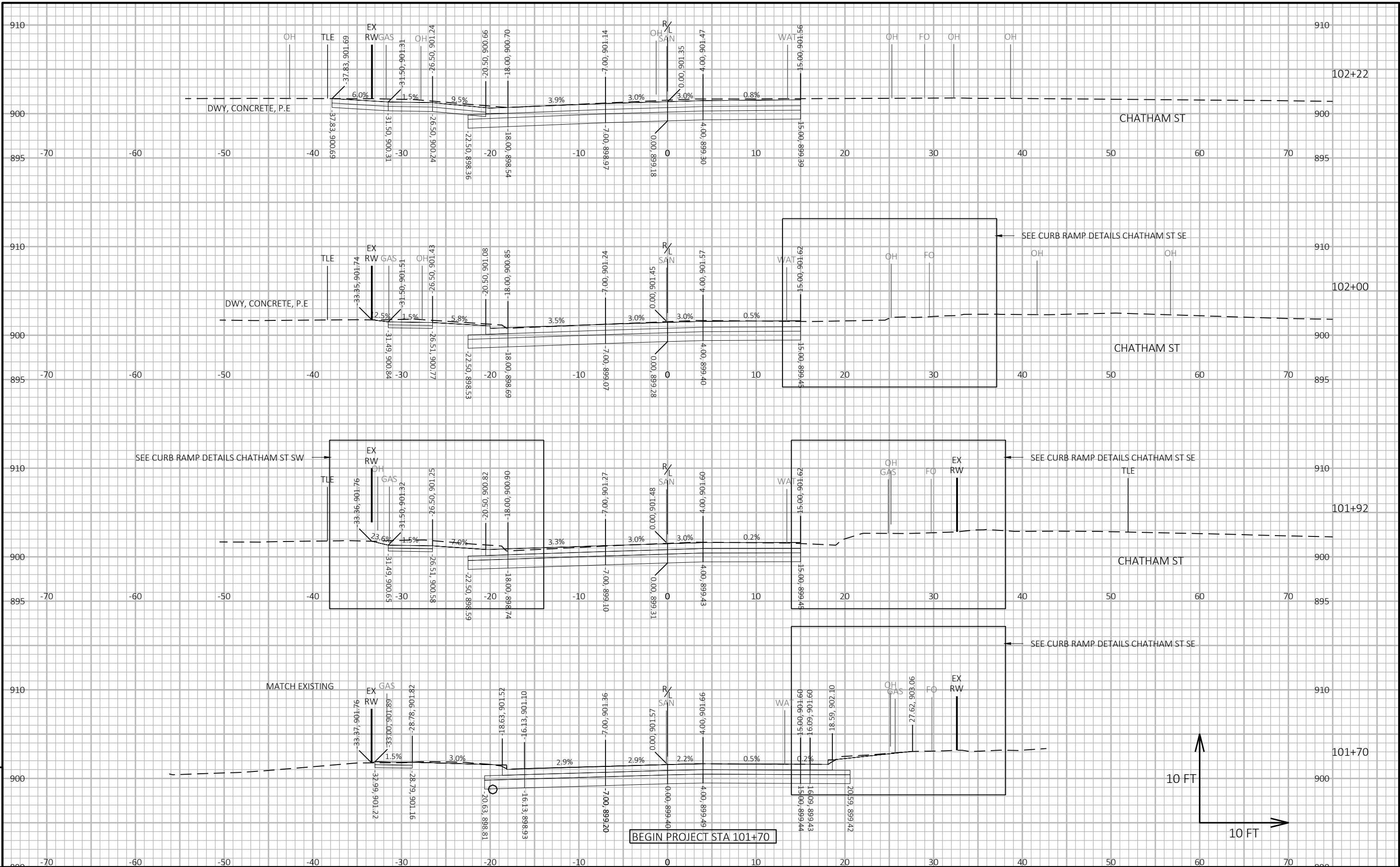
DIVISION 1 - MADISON STREET (CONTINUED)

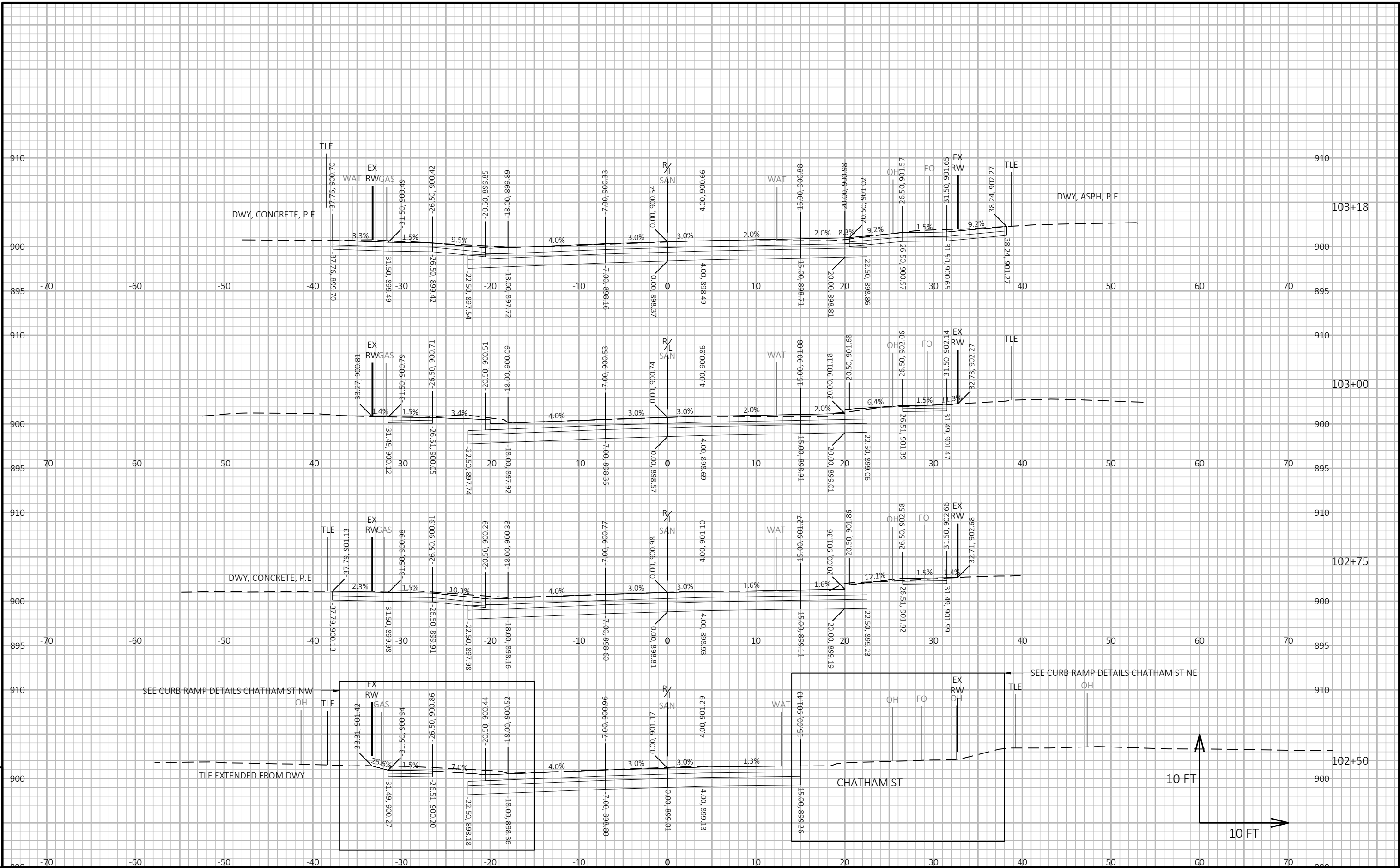
STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
111+90.00	11190.00	28	125.41	0.21	130	0	4533	11	4522
112+00.00	11200.00	10	107.92	0.90	43	0	4576	11	4565
112+06.00	11206.00	6	118.50	0.57	25	0	4601	11	4590
112+42.00	11242.00	36	130.64	0.00	166	0	4767	11	4756
112+50.00	11250.00	8	119.90	0.01	37	0	4804	11	4793
112+67.00	11267.00	17	125.55	0.43	77	0	4881	11	4870
113+00.00	11300.00	33	117.30	0.00	148	0	5029	11	5018
113+50.00	11350.00	50	120.47	0.00	220	0	5249	11	5238
113+60.00	11360.00	10	117.90	0.00	44	0	5293	11	5282
113+85.00	11385.00	25	116.83	0.01	109	0	5402	11	5391
114+00.00	11400.00	15	123.73	0.32	67	0	5469	11	5458
114+05.00	11405.00	5	124.51	0.31	23	0	5492	11	5481
114+50.00	11450.00	45	119.31	0.00	203	0	5695	11	5684
114+84.00	11484.00	34	125.66	0.72	154	0	5849	11	5838
114+93.00	11493.00	9	117.95	0.00	41	0	5890	11	5879
115+00.00	11500.00	7	114.00	0.13	30	0	5920	11	5909
115+25.00	11525.00	25	127.41	0.65	112	0	6032	11	6021
115+50.00	11550.00	25	116.43	0.47	113	1	6145	13	6133
115+75.00	11575.00	25	125.36	0.00	112	0	6257	13	6245
116+00.00	11600.00	25	136.02	0.00	121	0	6378	13	6366
116+12.00	11612.00	12	114.11	0.31	56	0	6434	13	6422
116+50.00	11650.00	38	115.78	0.09	162	0	6596	13	6584
116+57.00	11657.00	7	135.65	0.06	33	0	6629	13	6617
116+75.00	11675.00	18	137.88	0.00	91	0	6720	13	6708
117+00.00	11700.00	25	131.98	0.01	125	0	6845	13	6833
117+10.00	11710.00	10	149.55	0.00	52	0	6897	13	6885
117+50.00	11750.00	40	137.12	0.02	212	0	7109	13	7097
117+72.00	11772.00	22	136.28	0.00	111	0	7220	13	7208
117+98.40	11798.40	26.4	108.07	0.00	119	0	7339	13	7327
118+00.00	11800.00	1.6	112.74	0.00	7	0	7346	13	7334
118+11.32	11811.32	11.32	145.22	0.00	54	0	7400	13	7388
118+16.00	11816.00	4.68	166.55	0.01	27	0	7427	13	7415
118+34.00	11834.00	18	218.82	0.00	128	0	7555	13	7543
118+50.00	11850.00	16	190.65	0.00	121	0	7676	13	7664
118+59.09	11859.09	9.09	183.96	0.00	63	0	7739	13	7727
118+75.00	11875.00	15.91	237.95	0.27	124	0	7863	13	7851
118+76.17	11876.17	1.17	215.98	0.42	10	0	7873	13	7861
118+88.33	11888.33	12.16	148.48	0.26	82	0	7955	13	7943
119+00.00	11900.00	11.67	120.05	0.83	58	0	8013	13	8001
119+16.00	11916.00	16	139.51	0.00	77	0	8090	13	8078
119+50.00	11950.00	34	127.02	0.67	168	0	8258	13	8246
119+82.00	11982.00	32	137.56	0.00	157	0	8415	13	8403
120+00.00	12000.00	18	125.55	0.85	88	0	8503	13	8491
120+50.00	12050.00	50	103.62	1.59	212	2	8715	15	8700
120+86.00	12086.00	36	124.09	0.32	152	1	8867	16	8851
121+00.00	12100.00	14	106.63	0.37	60	0	8927	16	8911
121+25.00	12125.00	25	97.51	0.58	95	0	9022	16	9006
121+50.00	12150.00	25	93.36	0.56	88	1	9110	18	9093
122+00.00	12200.00	50	111.19	0.34	189	1	9299	19	9280
122+25.00	12225.00	25	105.31	1.15	100	1	9399	20	9379
122+38.00	12238.00	13	124.19	0.11	55	0	9454	20	9434
122+50.00	12250.00	12	107.96	0.91	52	0	9506	20	9486
122+81.00	12281.00	31	122.19	0.01	132	1	9638	21	9617
123+00.00	12300.00	19	112.13	1.10	82	0	9720	21	9699
123+22.05	12322.05	22.05	102.04	0.11	87	0	9807	21	9786

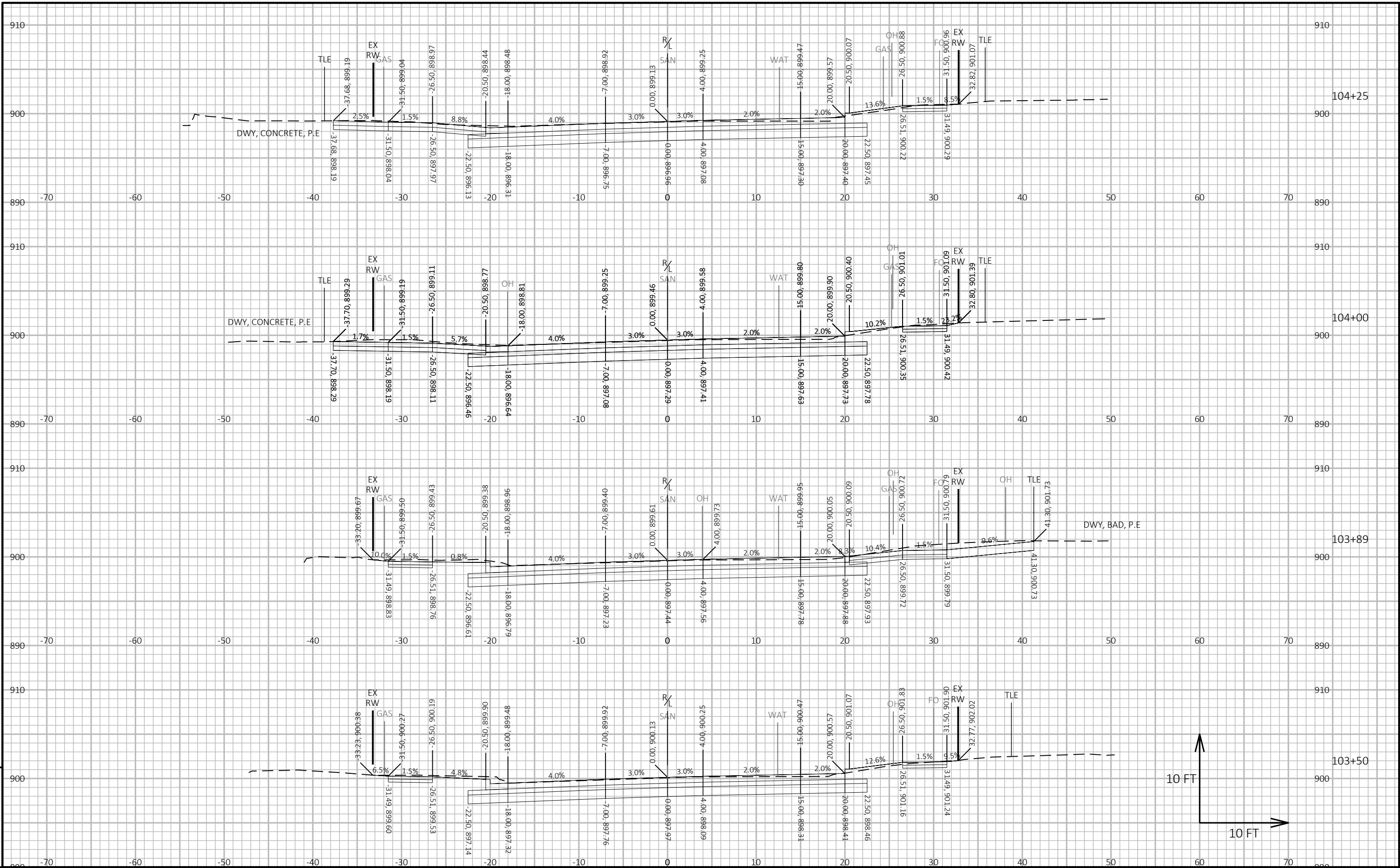
(CONTINUED ON NEXT SHEET)

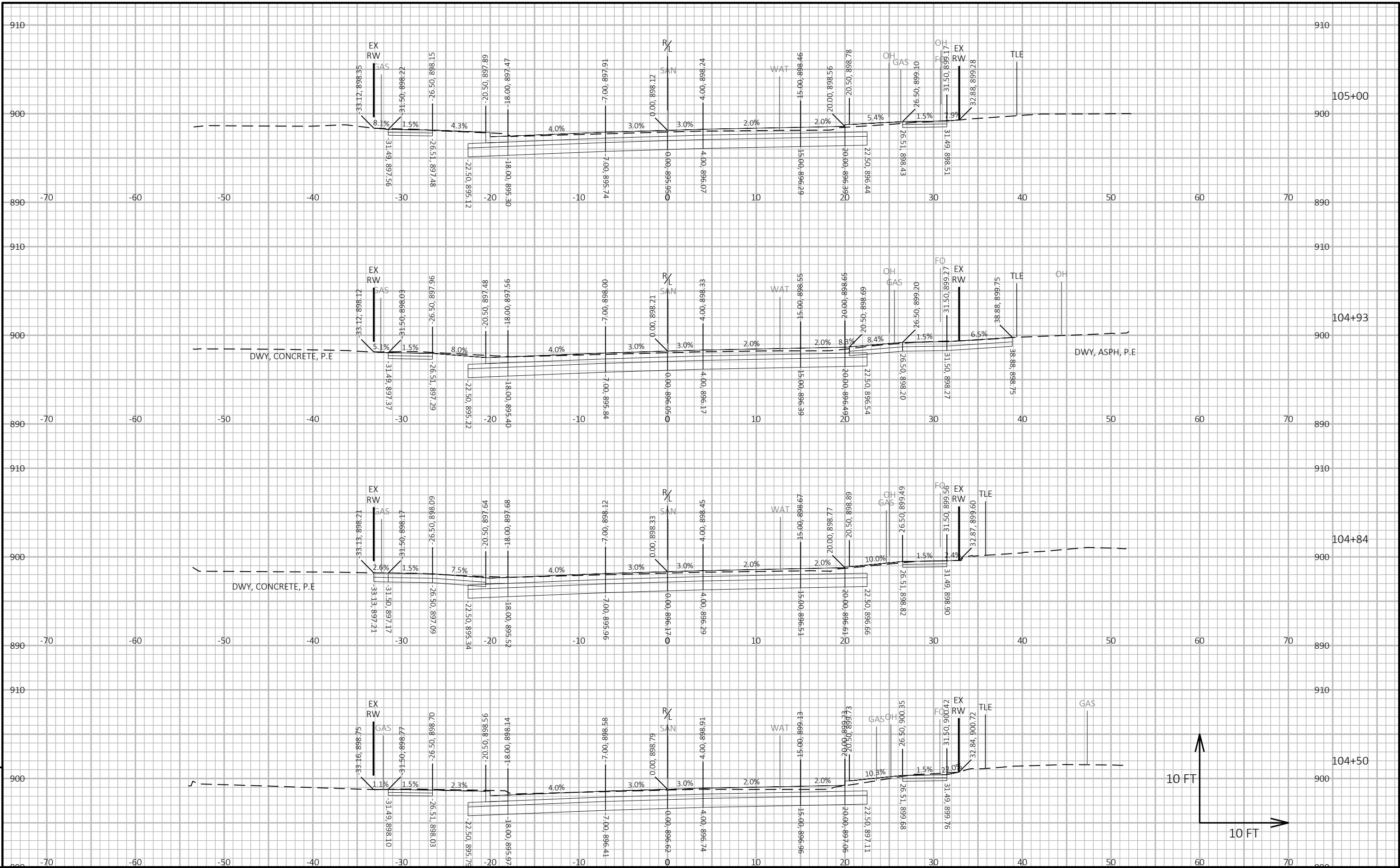
DIVISION 1 - MADISON STREET (CONTINUED)

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.25	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
123+25.00	12325.00	2.95	106.42	0.19	11	0	9818	21	9797
123+35.55	12335.55	10.55	110.64	0.31	42	0	9860	21	9839
123+50.00	12350.00	14.45	149.20	0.83	70	0	9930	21	9909
123+85.35	12385.35	35.35	169.96	1.82	209	2	10139	24	10115
123+97.31	12397.31	11.96	175.30	2.03	76	1	10215	25	10190
124+00.00	12400.00	2.69	176.78	1.42	18	0	10233	25	10208
124+10.13	12410.13	10.13	138.27	2.45	59	1	10292	26	10266
124+25.00	12425.00	14.87	105.67	2.26	67	1	10359	28	10332
124+42.00	12442.00	17	118.36	0.01	71	1	10430	29	10401

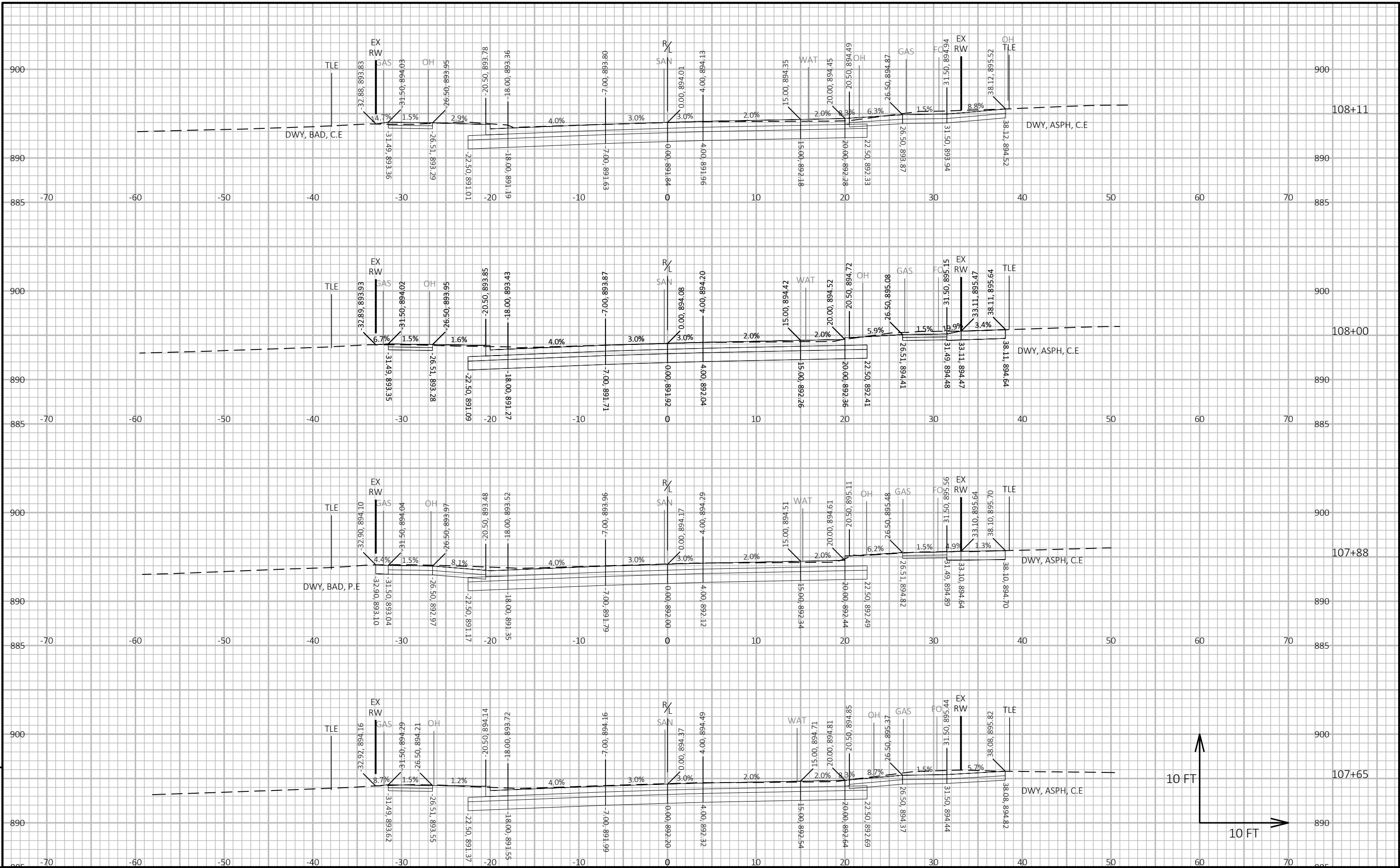


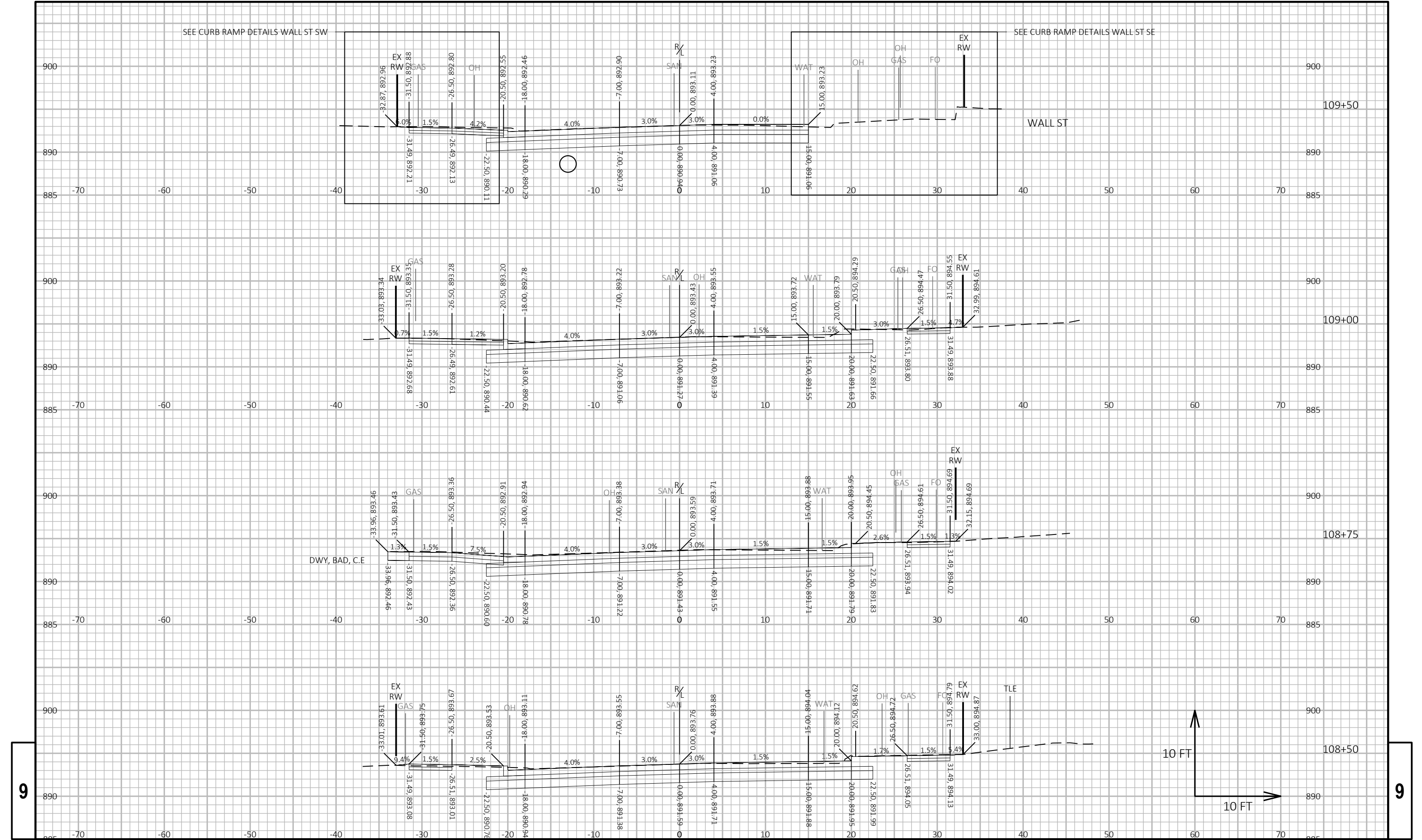












PROJECT NO: 6995-04-74

HWY: MADISON STREET

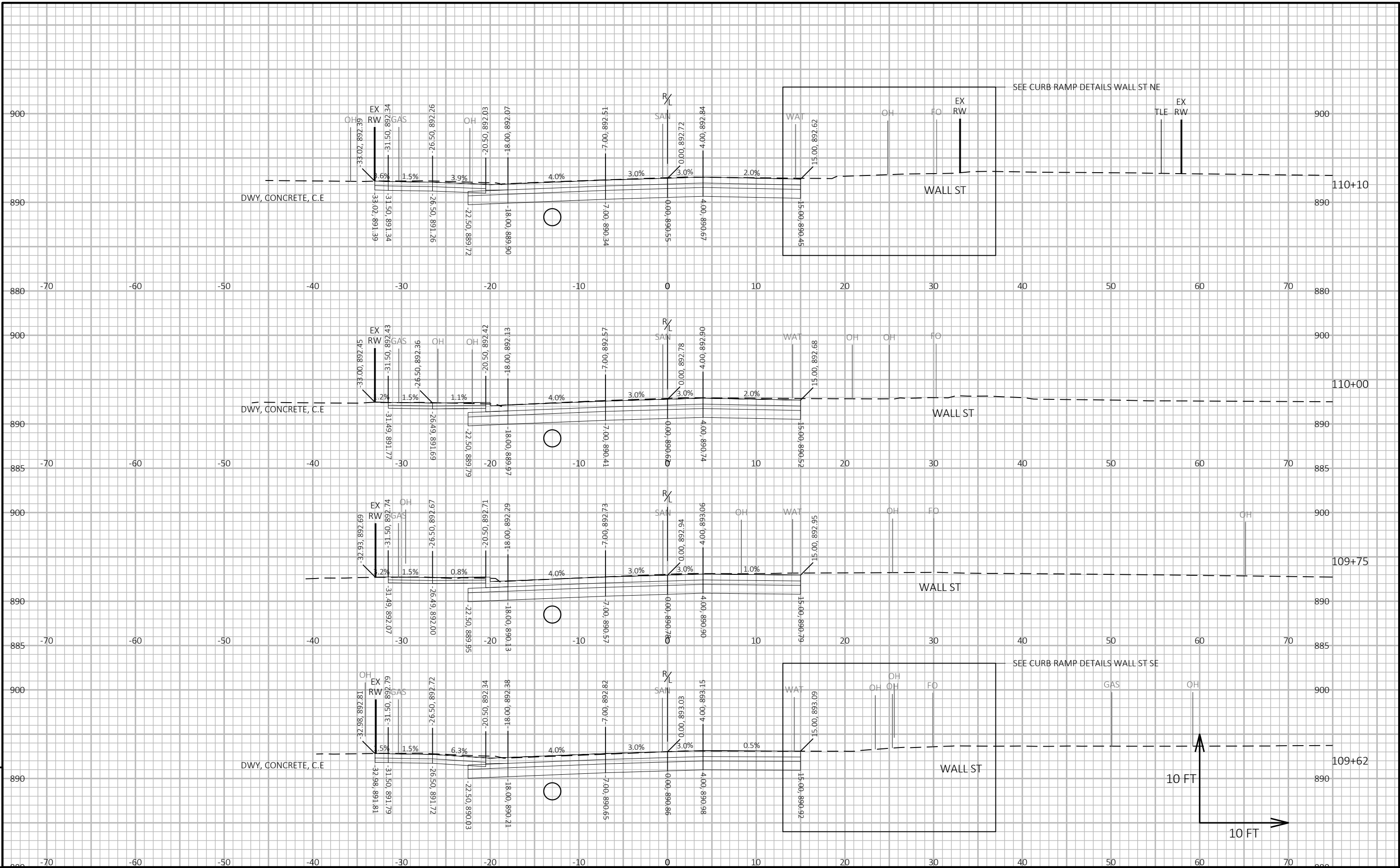
COUNTY: DODGE

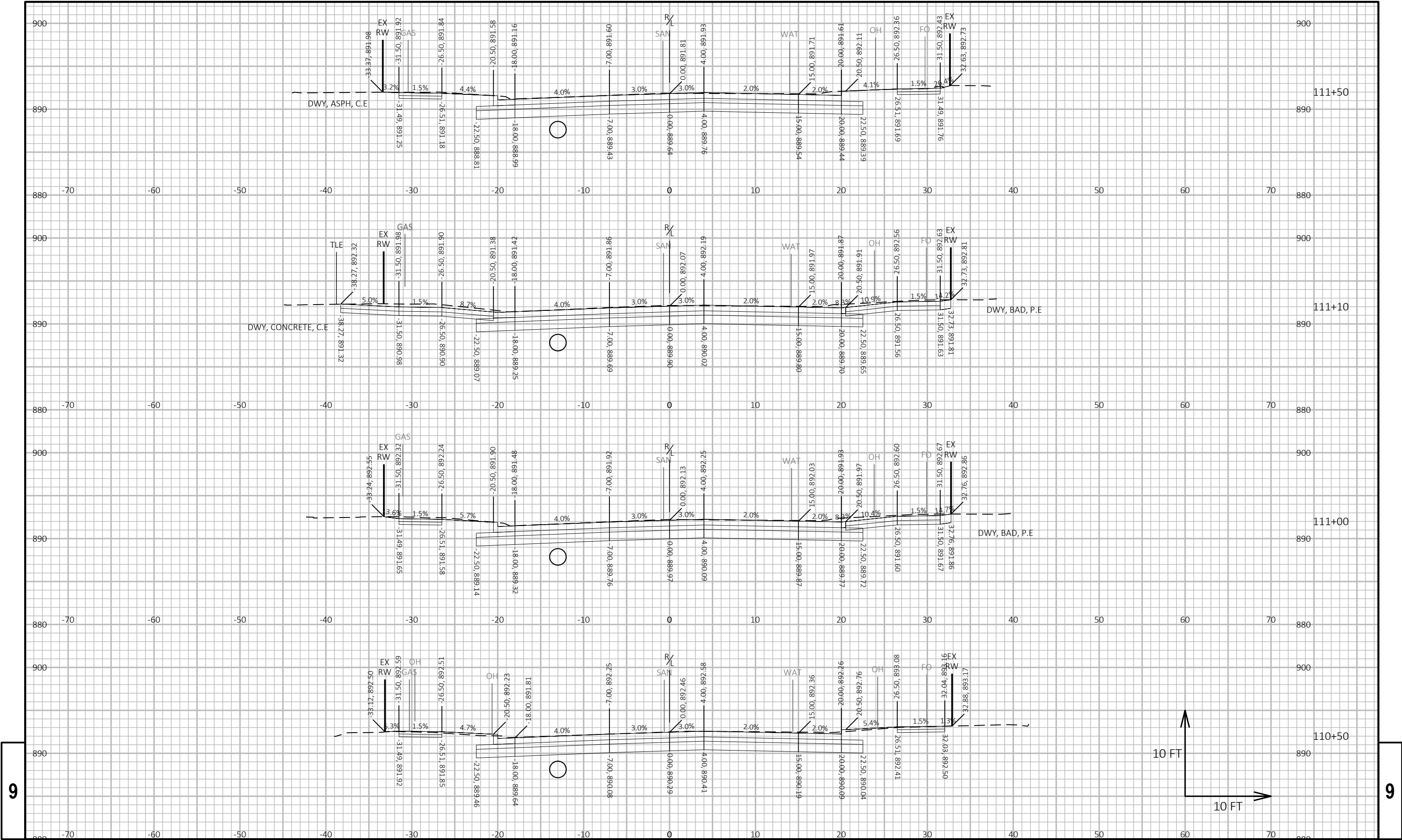
CROSS SECTIONS: MADISON ST

SHEET

187

E





PROJECT NO: 6995-04-74

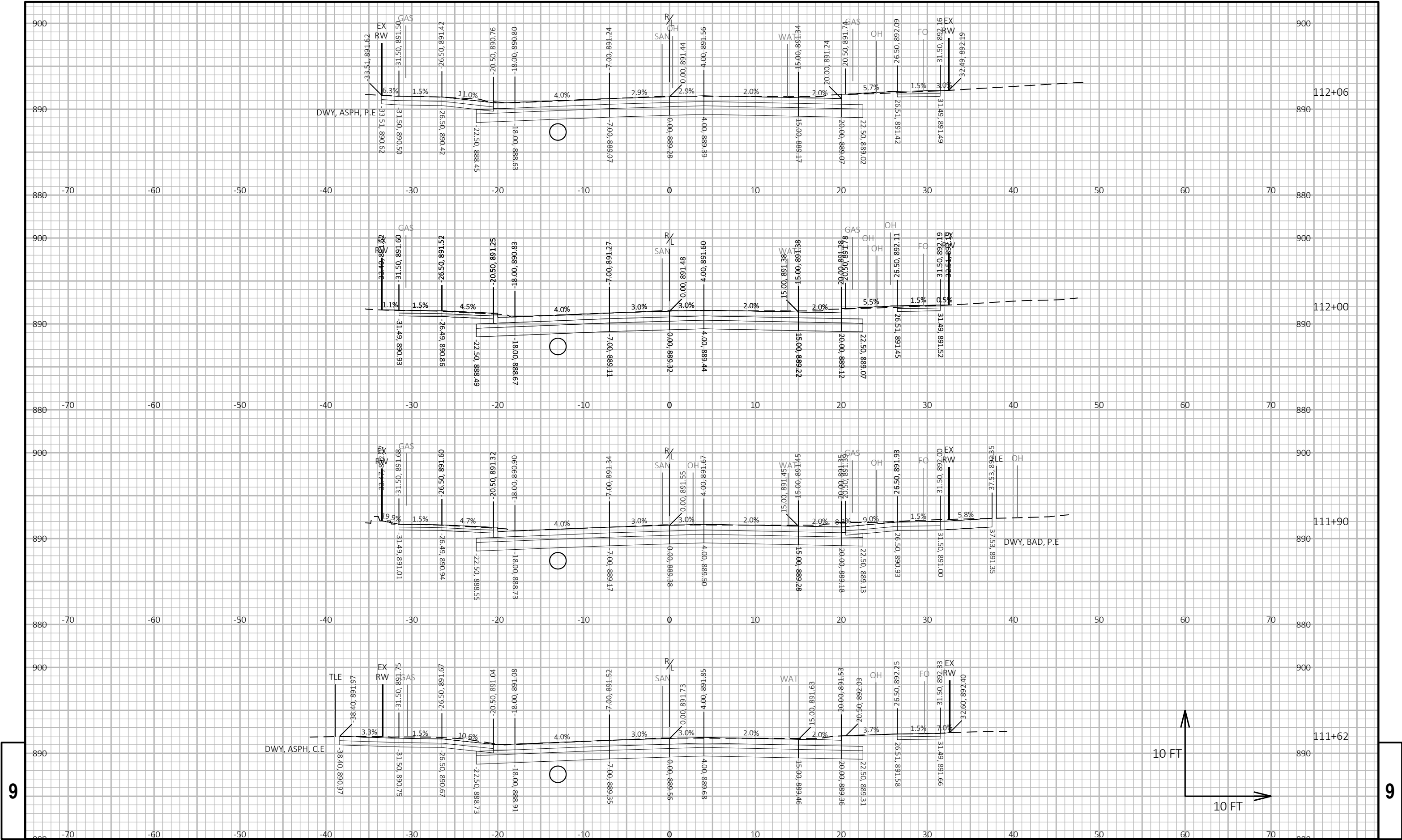
HWY: MADISON STREET

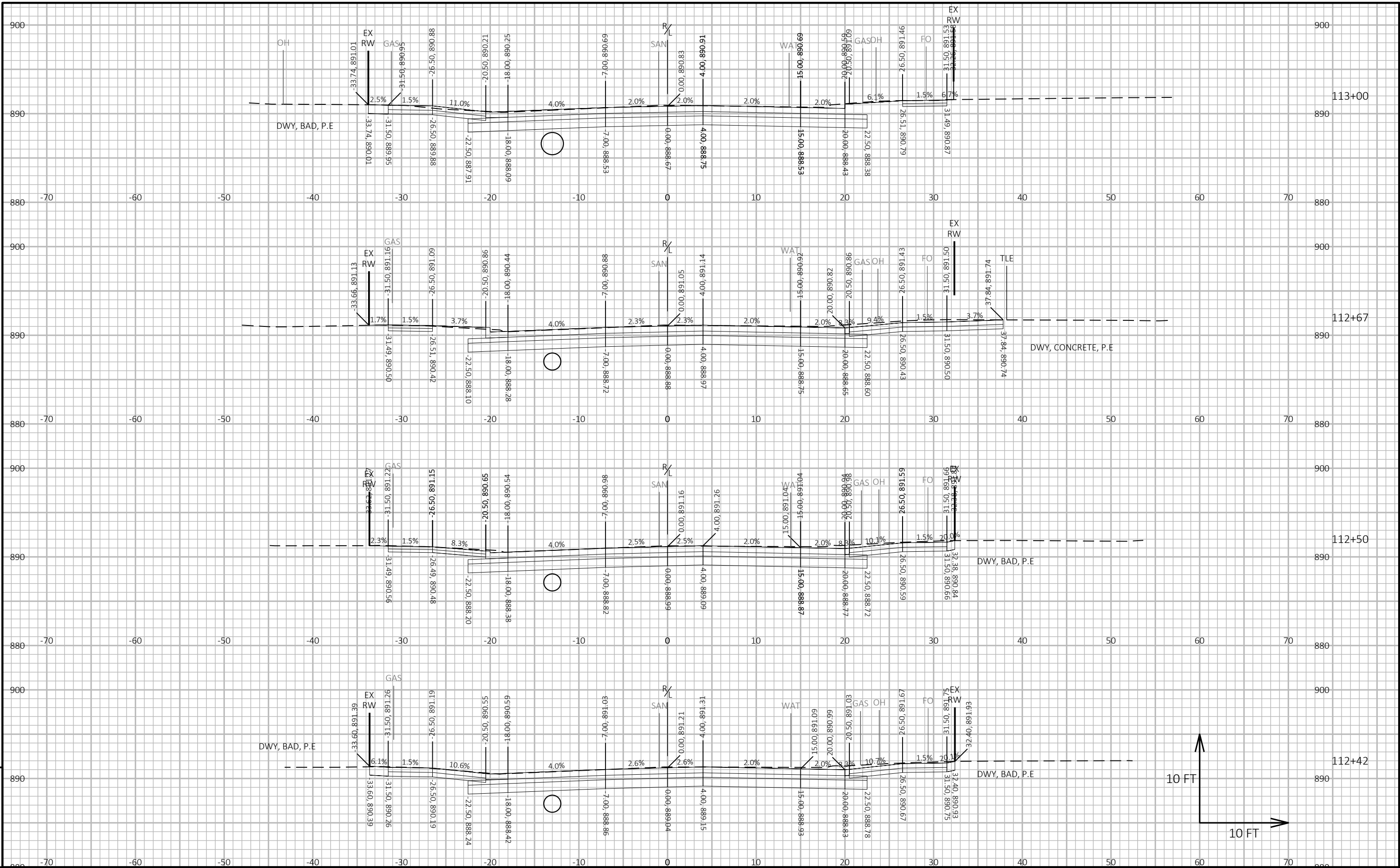
COUNTY: DODGE

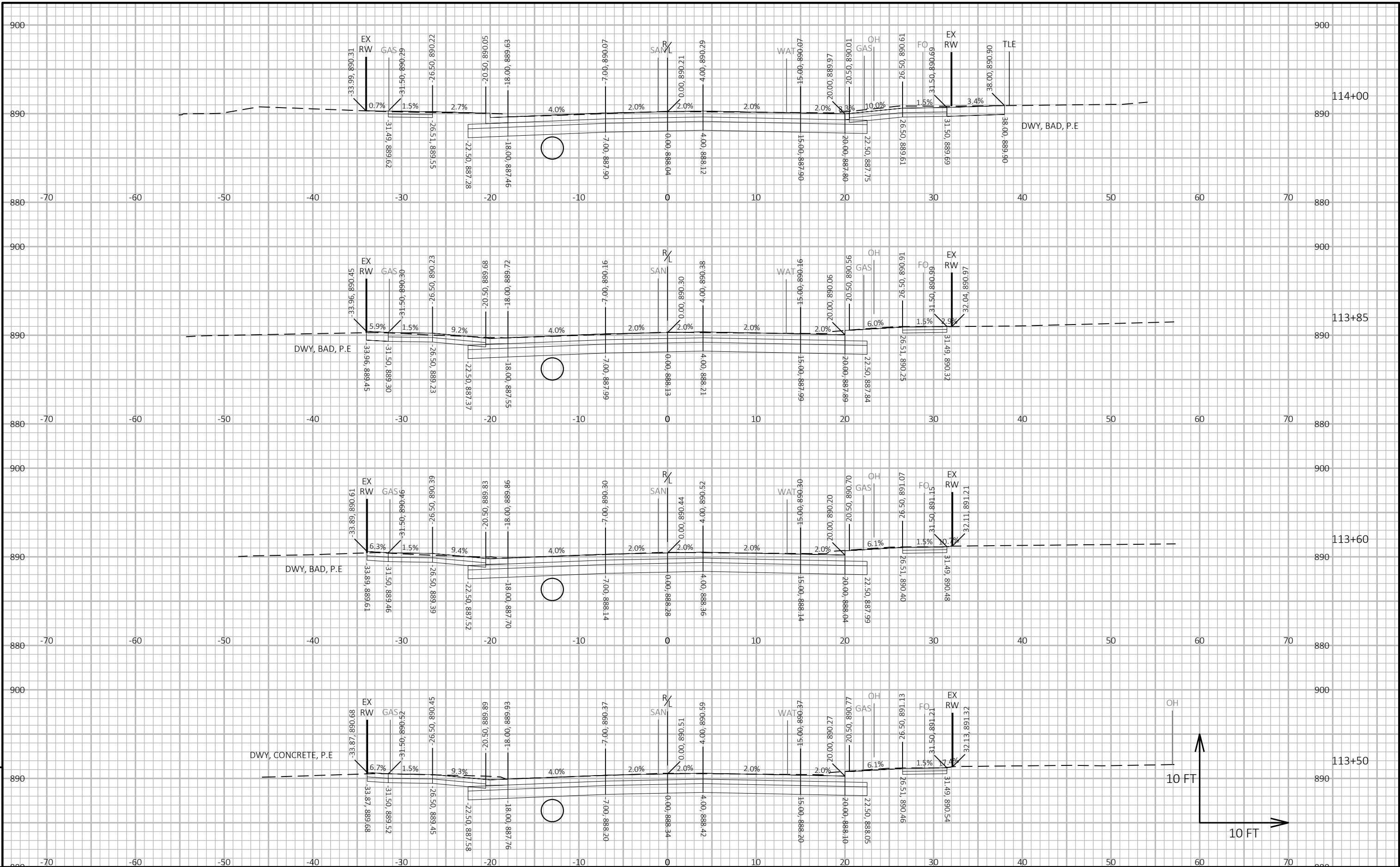
CROSS SECTIONS: MADISON ST

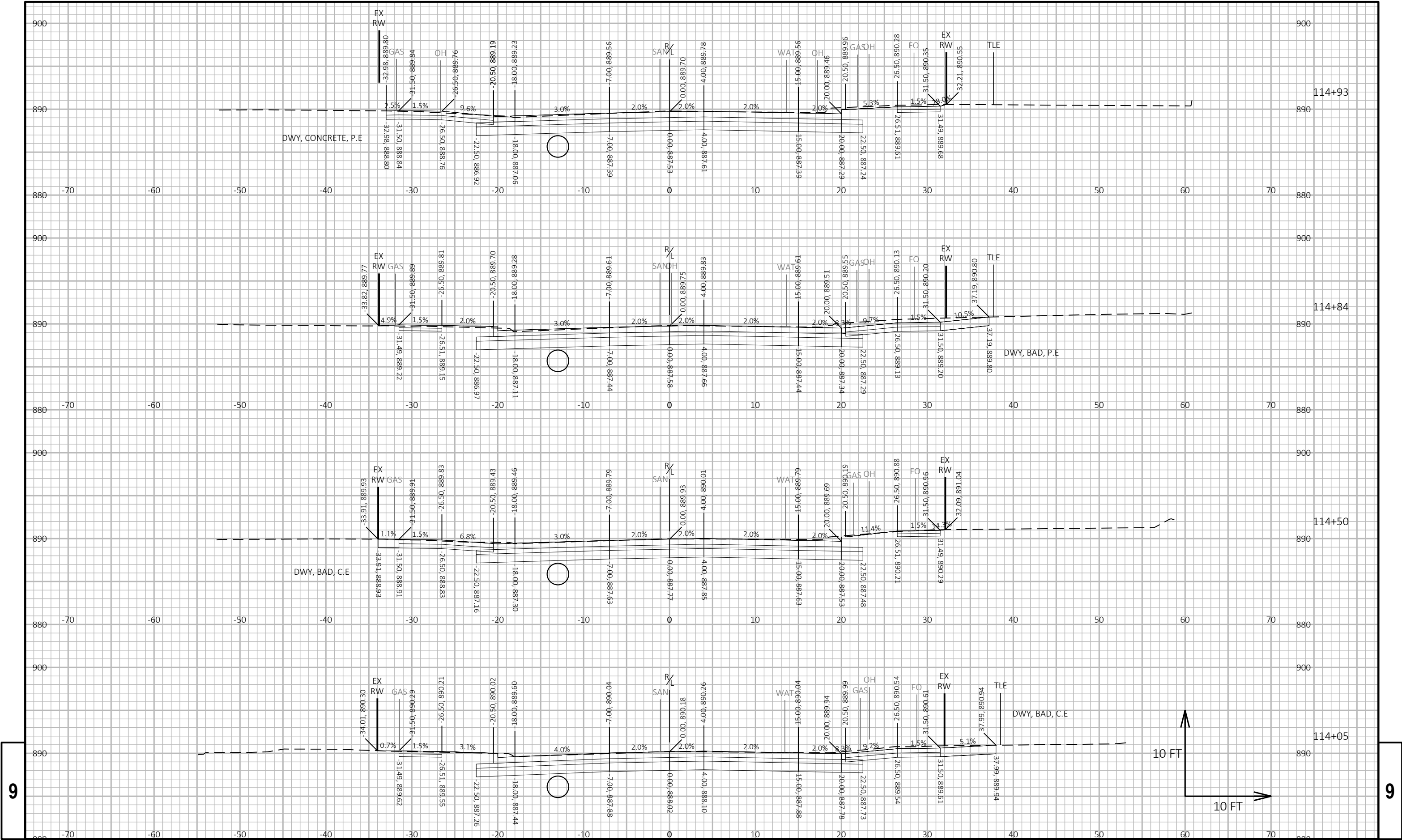
SHEET 189

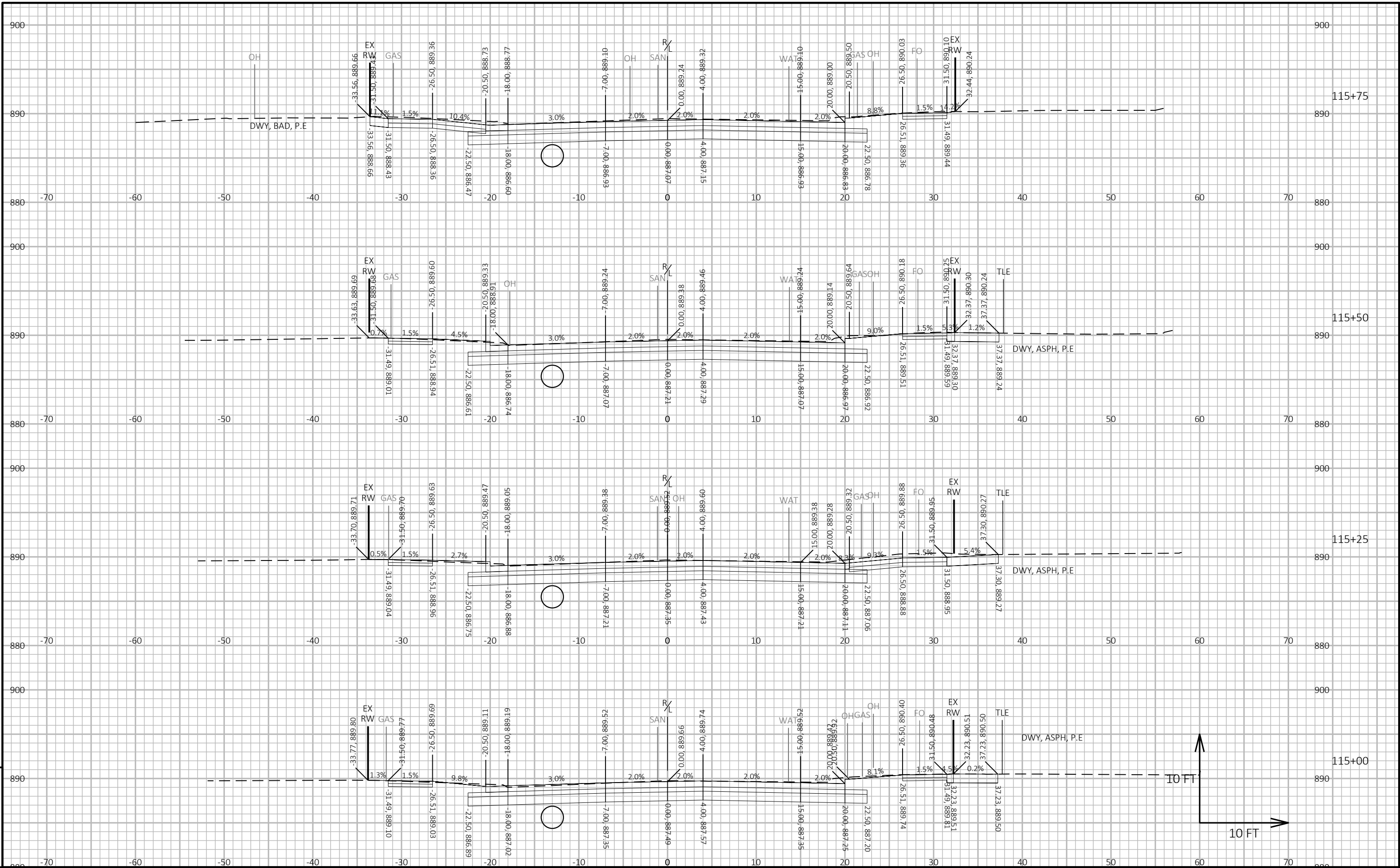
E

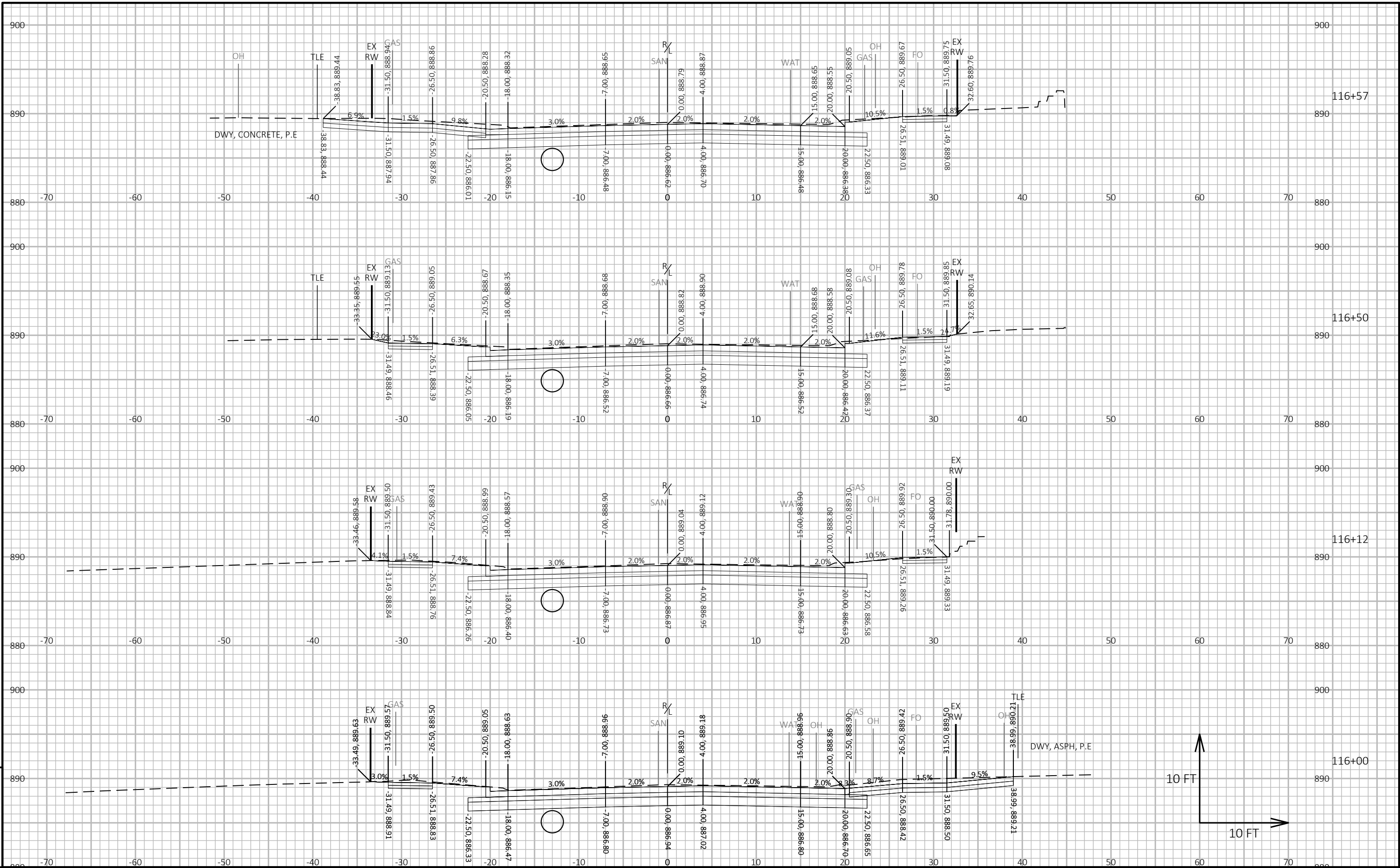


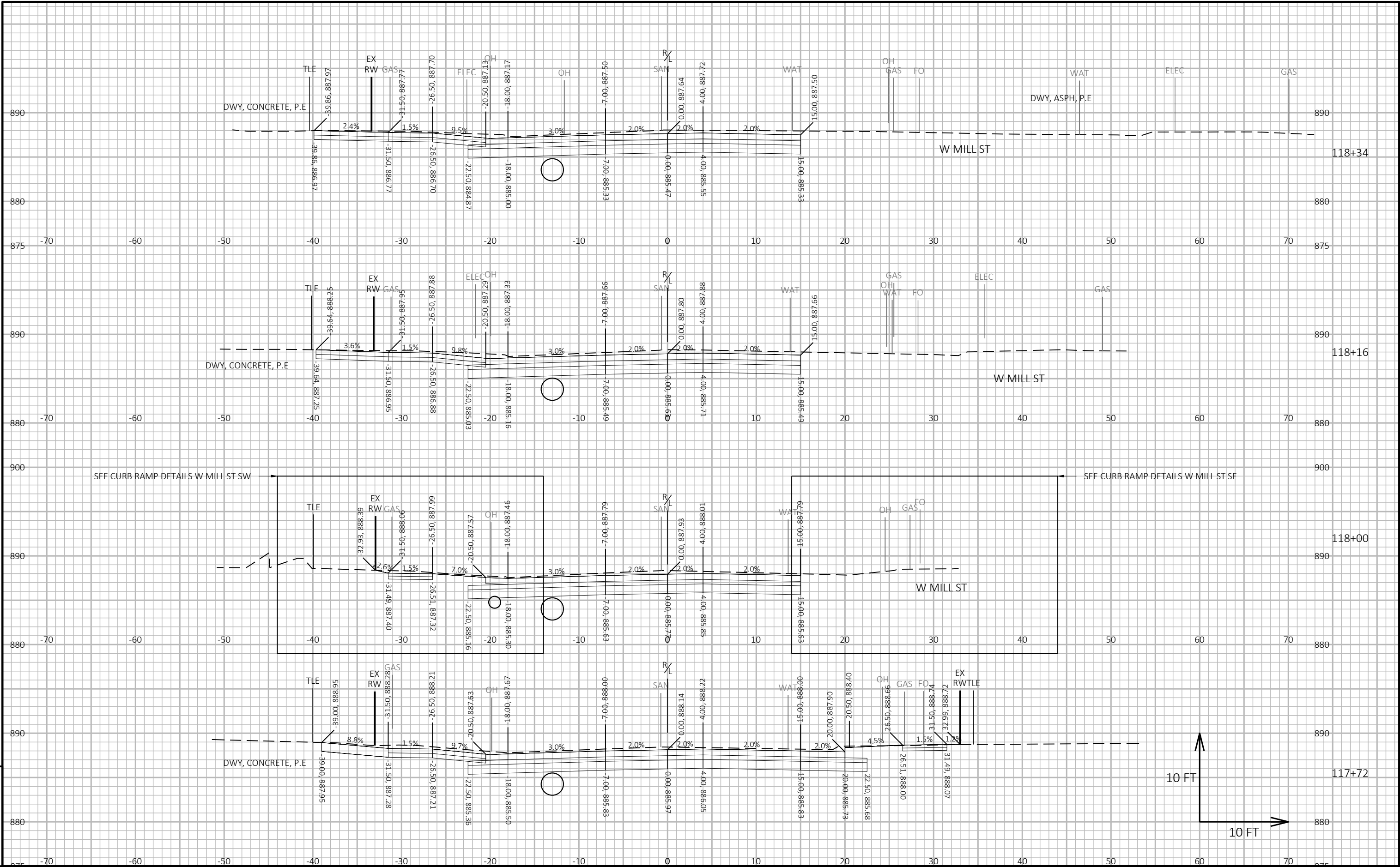




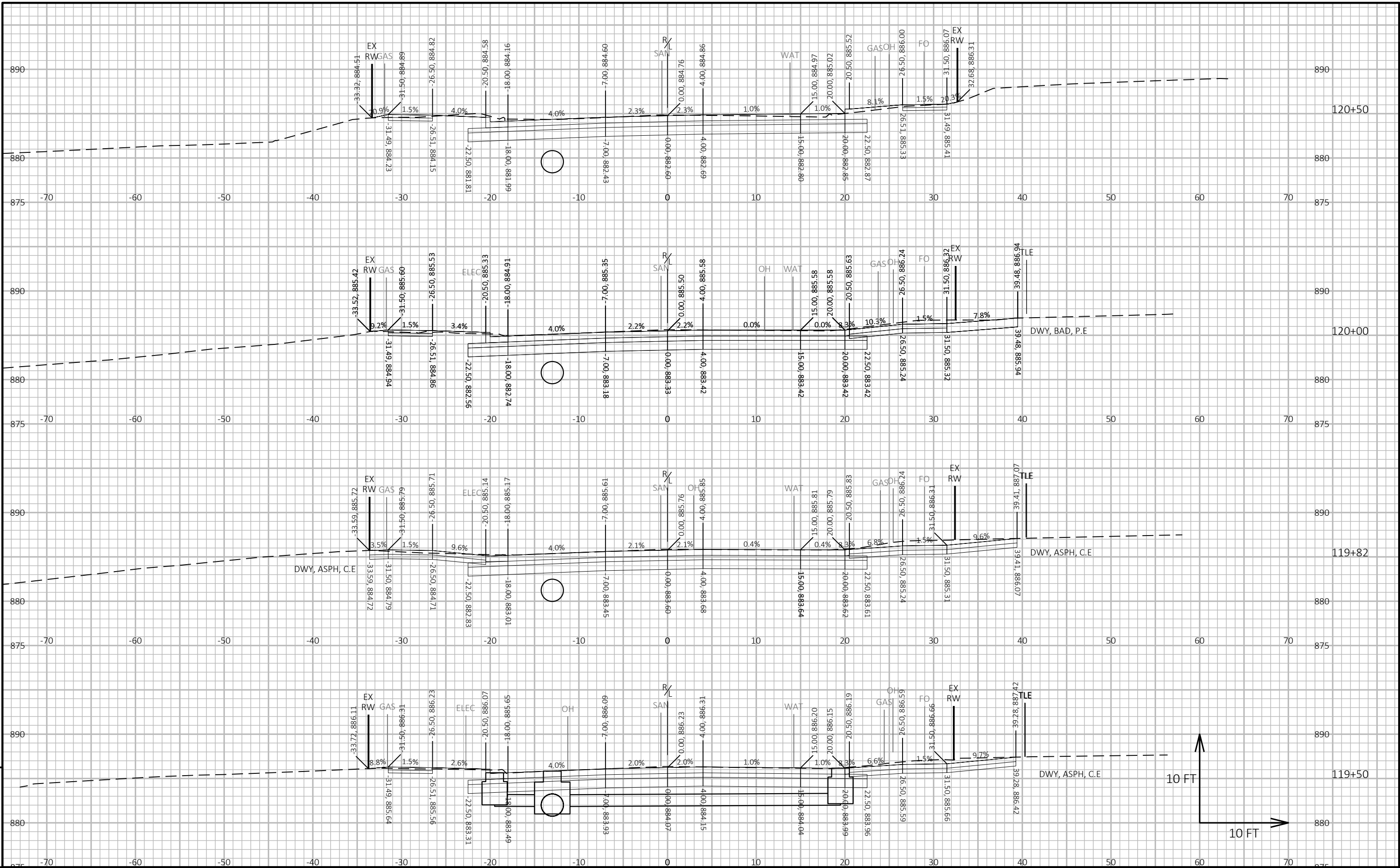


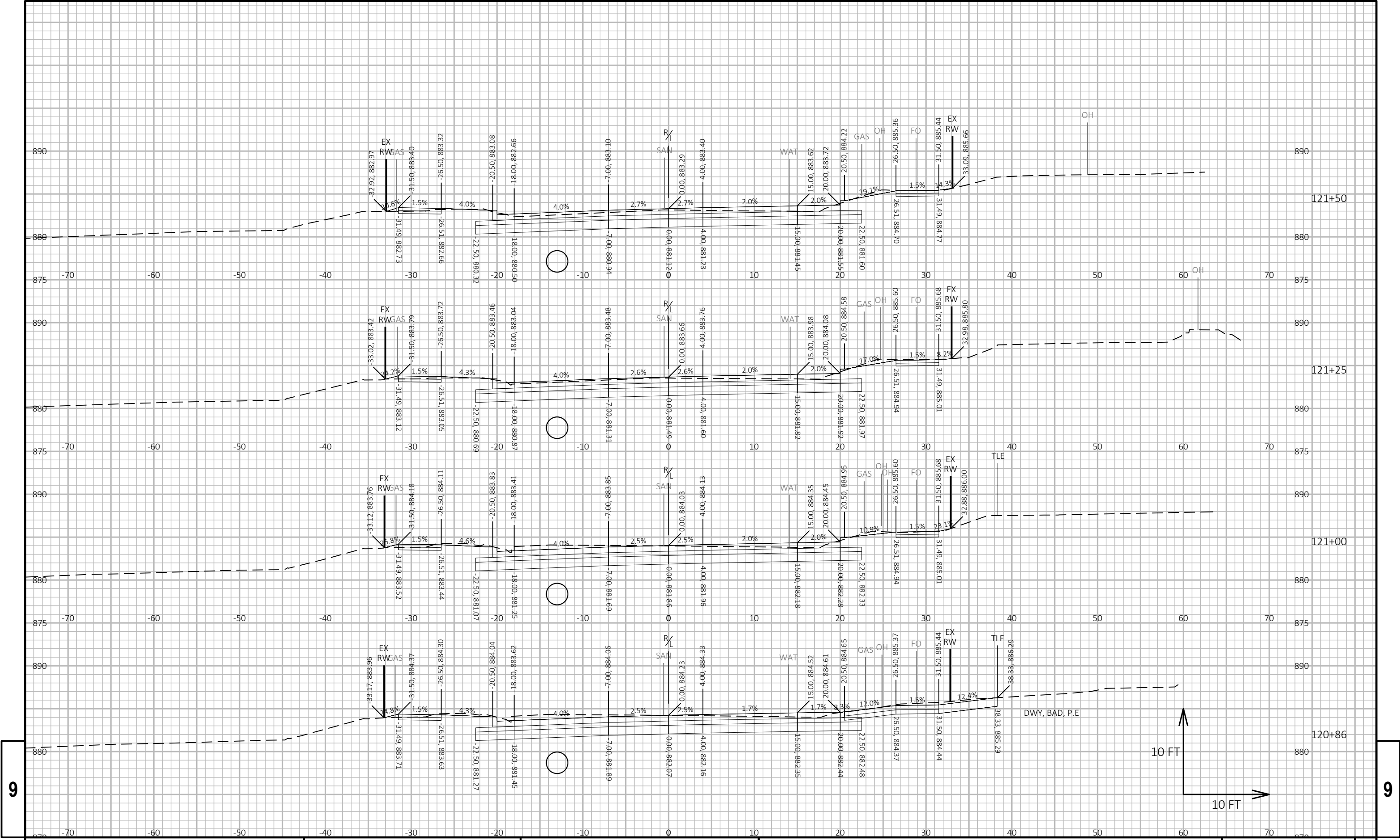


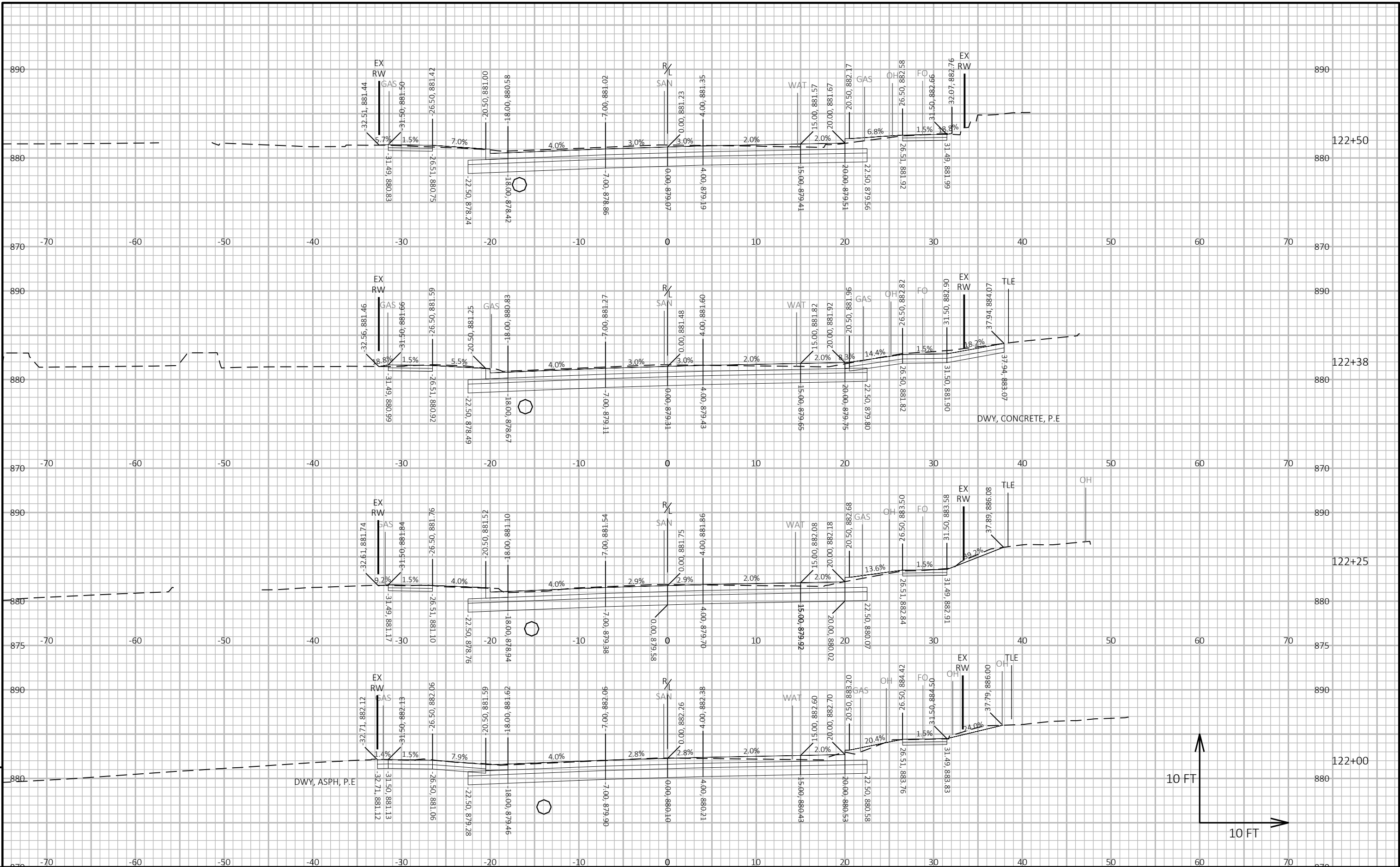


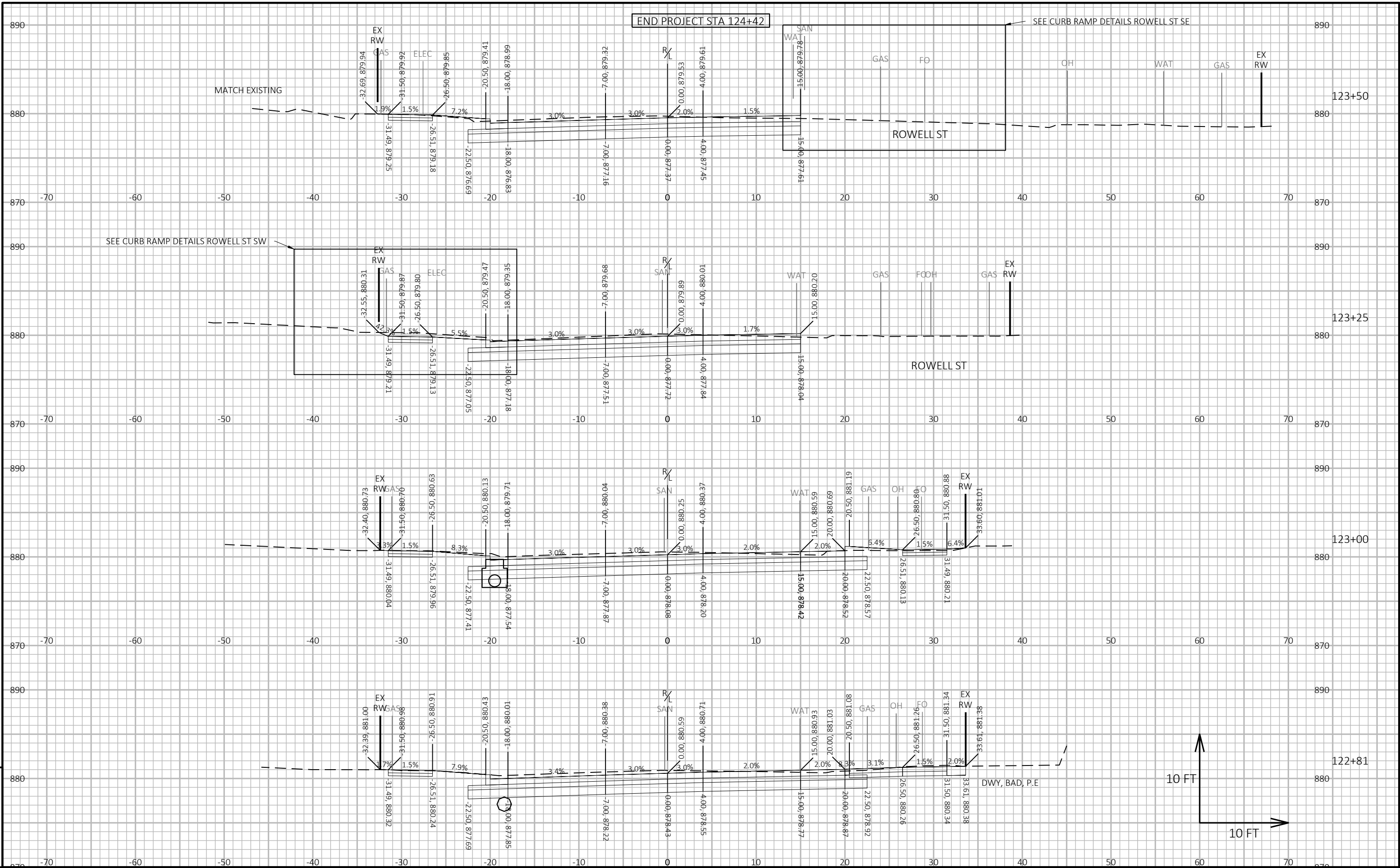


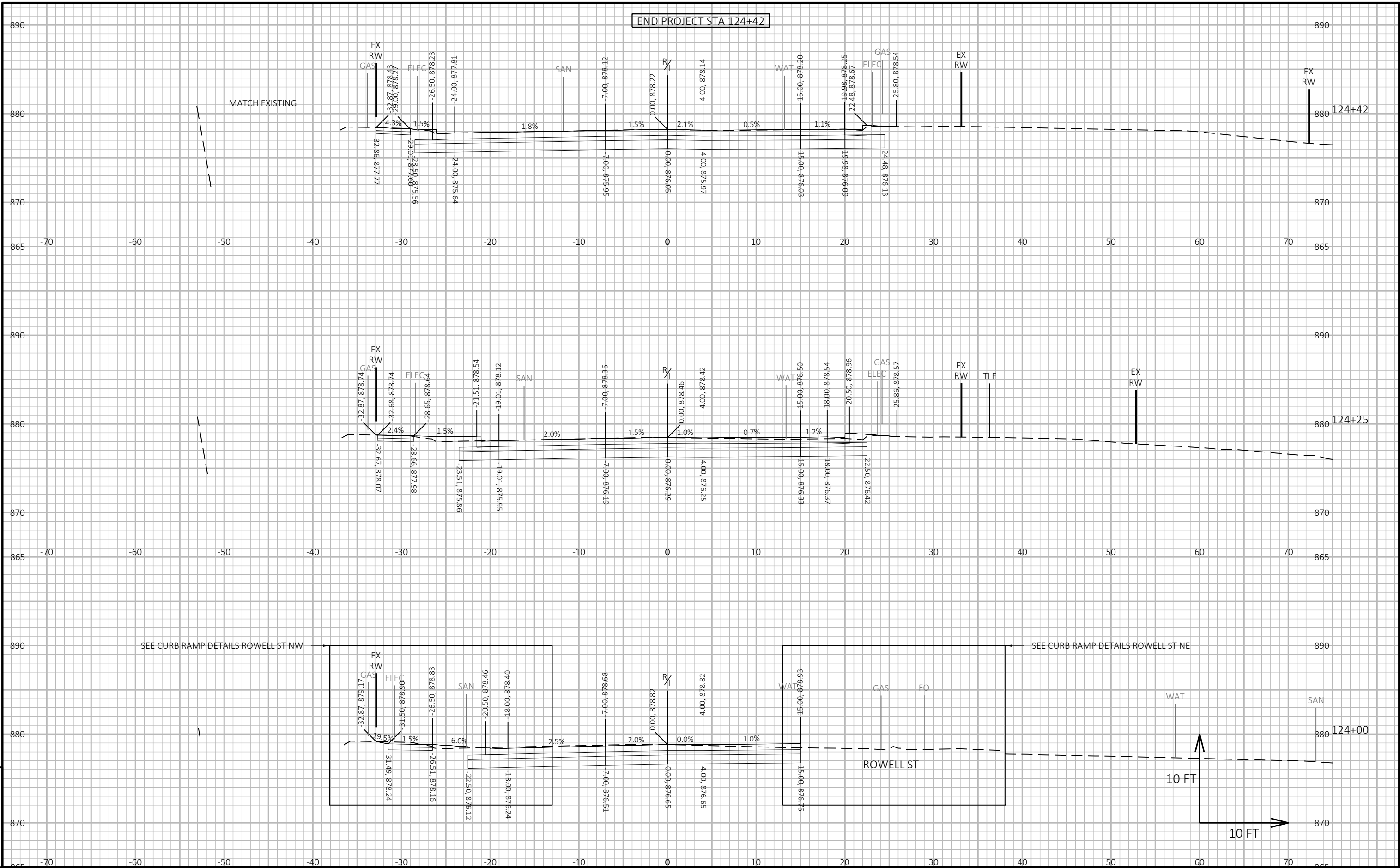


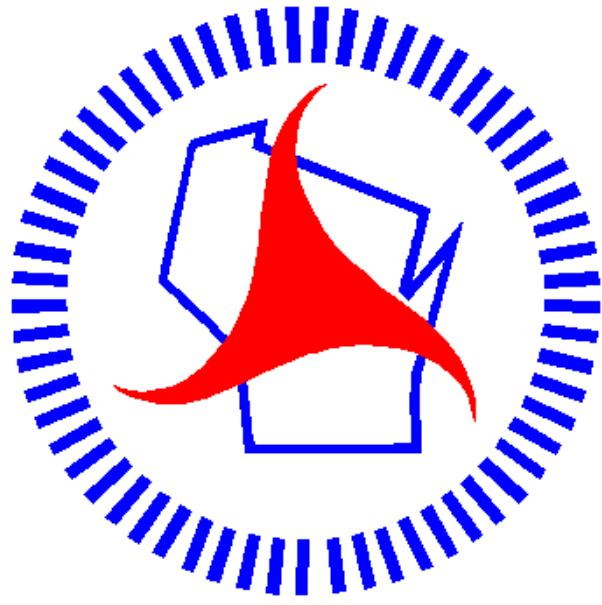












Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>