



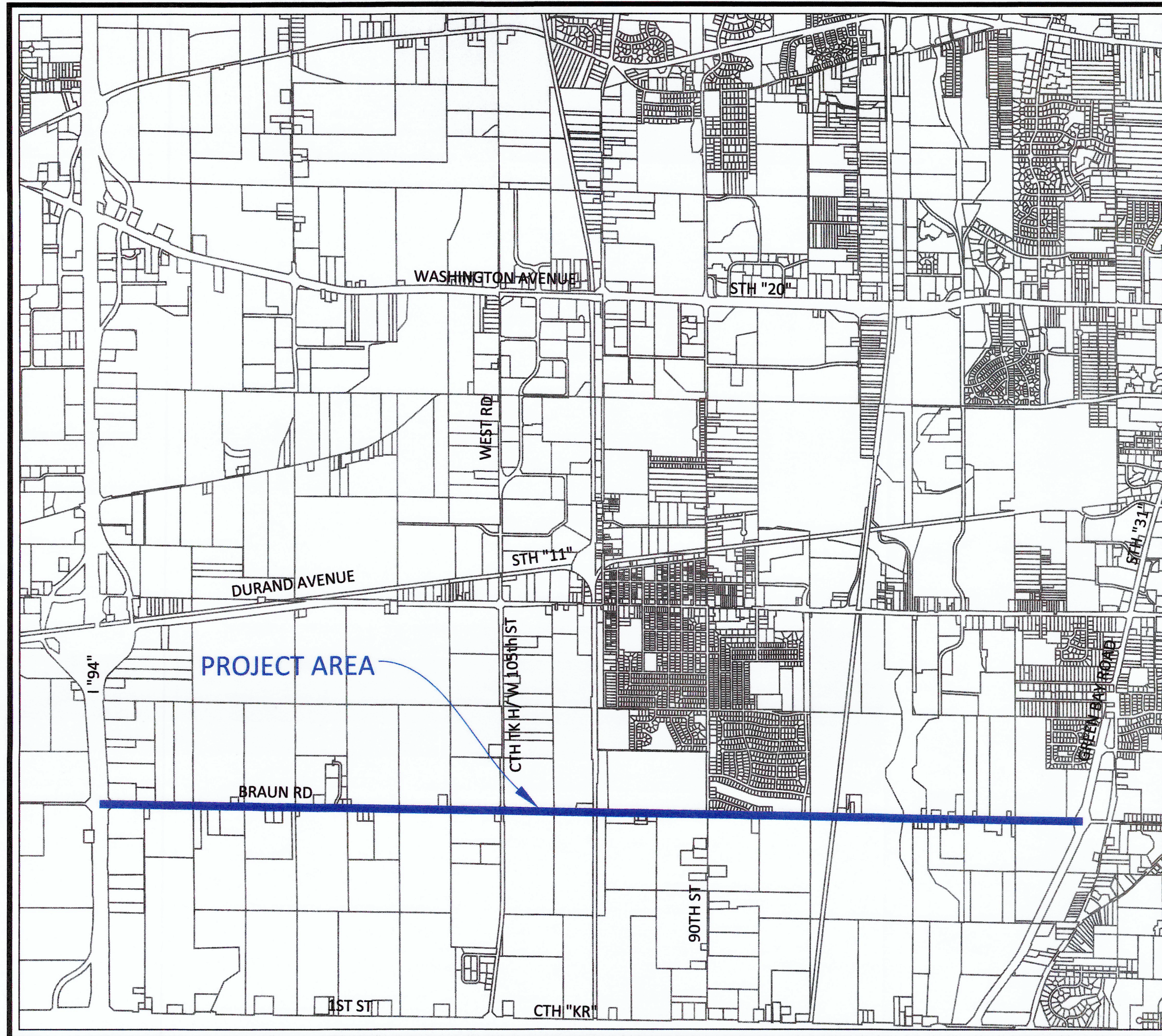
BRAUN ROAD TRANSMISSION MAIN

PROJECT W-18-6

RACINE COUNTY, WISCONSIN

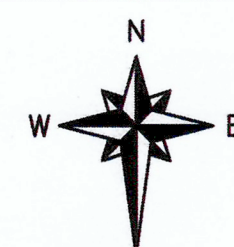
RACINE WATER & WASTEWATER UTILITY

ORIGINAL PLAN SET
IS IN COLOR



LOCATION MAP

TOWN	RANGE	SECTION (s)
T3N	R22E	-



SCALE IN FEET
0 750 1500 3000

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LEGEND - CIVIL ENGINEERING DRAWINGS

	GENERIC MANHOLE		TELEPHONE BOX		FLAG POLE		PROPOSED SILT FENCE
	GENERIC VENT		TELEPHONE MANHOLE		MAIL BOX		PROPOSED SANITARY SEWER (PLAN VIEW)
	SEWER MANHOLE		CABLE BOX		POST		PROPOSED STORM SEWER (PLAN VIEW)
	CLEAN OUT		UTILITY POLE		DELINEATOR POST		PROPOSED WATER MAIN
	SEPTIC SYSTEM		GUY WIRE		MARKER POST		PROPOSED SLOPE INTERCEPT
	SEPTIC TANK COVER		LIGHT POLE		SIGN		PROPOSED DETECTABLE WARNING FIELD
	SEPTIC VENT		YARD LIGHT		PILING		PROPOSED SANITARY MANHOLE
	MWEL MONITORING WELL		TRAFFIC SIGNAL		AIR CONDITIONER		PROPOSED SANITARY RISER
	WATER VALVE		PULL BOX		RAILROAD SIGNAL FLASHER		PROPOSED WATER VALVE
	HYDRANT		SANITARY SEWER		RAILROAD SIGNAL BOX		PROPOSED HYDRANT
	YARD HYDRANT		WATER MAIN		RAILROAD SPIKE		PROPOSED YARD HYDRANT
	WATER VALVE MANHOLE		STORM SEWER		STUMP		PROPOSED WATER VALVE MANHOLE
	WATER CURB STOP		UNDERGROUND GAS MAIN		DECIDUOUS TREE		PROPOSED WATER MAIN REDUCER
	WELL		UNDERGROUND ELECTRIC (SURVEYED)		DECIDUOUS MULTIPLE TRUNK TREE		PROPOSED WATER MAIN OFFSET
	SPRINKLER HEAD		UNDERGROUND ELECTRIC (FROM GIS)		CONIFEROUS TREE		PROPOSED WATER MAIN PLUG
	STORM CATCH BASIN		UNDERGROUND TELEPHONE		CONIFEROUS MULTIPLE TRUNK TREE		PROPOSED WATER MAIN RELEASE
	STORM INLET		UNDERGROUND FIBER OPTIC		CONTROL POINT		PROPOSED WATER MAIN CROSS
	GAS MANHOLE		UNDERGROUND TV CABLE		IRON PIPE		PROPOSED WATER MAIN TEE
	GAS VALVE		EDGE OF PAVEMENT		IRON ROD		PROPOSED WATER MAIN BEND (ANGLE NOTED)
	GAS METER		EDGE OF GRAVEL SHOULDER		SECTION CORNER		PROPOSED LOCATOR BOX
	GAS VENT		EDGE OF CONCRETE		MONUMENT		PROPOSED STORM INLET/CATCH BASIN
	GAS VALVE TEST		DITCH		TEST BORING		PROPOSED STORM MANHOLE
	GAS CURB STOP		TOE OF SLOPE		PK NAIL		PROPOSED DITCH CHECK
	ELECTRIC BOX		TOP OF BANK		DECORATIVE ROCK		PROPOSED INLET PROTECTION
	ELECTRIC MANHOLE		FENCE		REVISION LABEL		
	ELECTRIC METER		GUARD RAIL		WETLANDS		
			CULVERT (SIZE & TYPE NOTED)		WATER ELEVATION		
			RAILROAD TRACKS				
			EDGE OF TREES & BRUSH				



5-10-18

REPLACES CONSTRUCTION
SET DATED 02-26-19

APPROVED FOR CONSTRUCTION

DATE: 3/19/2019
BY: JBE

CHECKED BY: *[Signature]*

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BID
SET

PROJECT NO. 8022-10021.200

BRAUN ROAD TRANSMISSION MAIN

PROJECT W-18-6

RACINE WATER & WASTE WATER UTILITY

RACINE COUNTY, WISCONSIN

SHEET INDEX

SHEET NO.	LOCATION	DESCRIPTION	SHEET NO.	LOCATION	DESCRIPTION
MISCELLANEOUS			WATER MAIN CONTINUED		
INDEX-01R-4		INDEX SHEET	WM-25R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 1300' WEST OF S GREEN BAY ROAD TO: 300' WEST OF S GREEN BAY ROAD
INDEX-02		WATER MAIN SHEET INDEX	WM-26R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 300' WEST OF S GREEN BAY ROAD TO: 300' EAST OF S GREEN BAY ROAD
GN-01		WATER MAIN CONNECTIONS MAP	WM-27R-3	PROPOSED CROSSINGS	
TRAFFIC CONTROL			WM-28	PROPOSED CROSSINGS	
TC-01 - GREEN BAY ROAD TO EAST FRONTAGE ROAD		PROPOSED TRAFFIC CONTROL	WM-29	PROPOSED CROSSINGS	
WATER MAIN			CONSTRUCTION DETAILS		
WM-01	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: EAST FRONTAGE ROAD TO: 900' EAST OF EAST FRONTAGE ROAD	DT-01R-1	DT-05	CONSTRUCTION DETAILS
WM-02R-2	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 900' EAST OF EAST FRONTAGE ROAD TO: 1900' EAST OF EAST FRONTAGE ROAD			
WM-03R-2	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 1900' EAST OF EAST FRONTAGE ROAD TO: 2900' EAST OF EAST FRONTAGE ROAD			
WM-04R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 2900' EAST OF EAST FRONTAGE ROAD TO: 3900' EAST OF EAST FRONTAGE ROAD			
WM-05R-3	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 3900' EAST OF EAST FRONTAGE ROAD TO: 1000' WEST OF WHEATON LANE			
WM-06	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 1000' EAST OF WHEATON LANE TO: WHEATON LANE			
WM-07	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: WHEATON LANE TO: 1000' EAST OF WHEATON LANE			
WM-08R-3	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 1000' EAST WHEATON LANE TO: 2000' EAST OF WHEATON LANE			
WM-09R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 2000' EAST OF WHEATON LANE TO: 1350' WEST OF CTH "H" / 105TH STREET			
WM-10	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 1350' WEST OF CTH "H" / 105TH STREET TO: 350' WEST OF CTH "H" / 105TH STREET			
WM-11R-2	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 350' WEST OF CTH "H" / 105TH STREET TO: 650' EAST OF CTH "H" / 105TH STREET			
WM-12R-2	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 650' EAST OF CTH "H" / 105TH STREET TO: 1650' EAST OF CTH "H" / 105TH STREET			
WM-13R-5	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 1650' EAST OF CTH "H" / 105TH STREET TO: 2650' EAST OF CTH "H" / 105TH STREET			
WM-14R-2	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 2650' EAST OF CTH "H" / 105TH STREET TO: 3650' EAST OF CTH "H" / 105TH STREET			
WM-15R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 3650' EAST OF CTH "H" / 105TH STREET TO: 750' WEST OF 90TH STREET			
WM-16R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 750' WEST OF 90TH STREET TO: 350' EAST OF 90TH STREET			
WM-17R-2	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 350' EAST OF 90TH STREET TO: 250' EAST OF CITADEL TERRACE			
WM-18R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 250' EAST OF CITADEL TERRACE TO: 1250' EAST OF CITADEL TERRACE			
WM-19R-3	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 1250' EAST OF CITADEL TERRACE TO: 100' WEST OF WILLOW ROAD			
WM-20R-3	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 100' WEST OF WILLOW ROAD TO: 900' EAST OF WILLOW ROAD			
WM-21R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 900' EAST OF WILLOW ROAD TO: 1900' EAST OF WILLOW ROAD			
WM-22R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 1900' EAST OF WILLOW ROAD TO: 2900' EAST OF WILLOW ROAD			
WM-23R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 2900' EAST OF WILLOW ROAD TO: 2300' WEST OF S GREEN BAY ROAD			
WM-24R-1	IN: BRAUN ROAD PROPOSED WATER MAIN	FROM: 2300' WEST OF S GREEN BAY ROAD TO: 1300' WEST OF S GREEN BAY ROAD			

	TOWN:	RANGE:	SECTION(s):
1	08-18-18	ADDED SHEETS INDEX-02 & OH-01	
2	12-14-18	UPDATED FOR SHEET REVISIONS	
3	02-25-19	REVISED ALIGNMENT DUE TO WSDOT RECONSTRUCTION.	
4	03-19-19	PIPE PROFILE ADJUSTED TO REVISED ALIGNMENT	
5	.	.	
6	.	.	
7	.	.	
8	.	.	

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BRAUN ROAD TRANSMISSION MAIN

INDEX SHEET

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RACINE COUNTY, WISCONSIN

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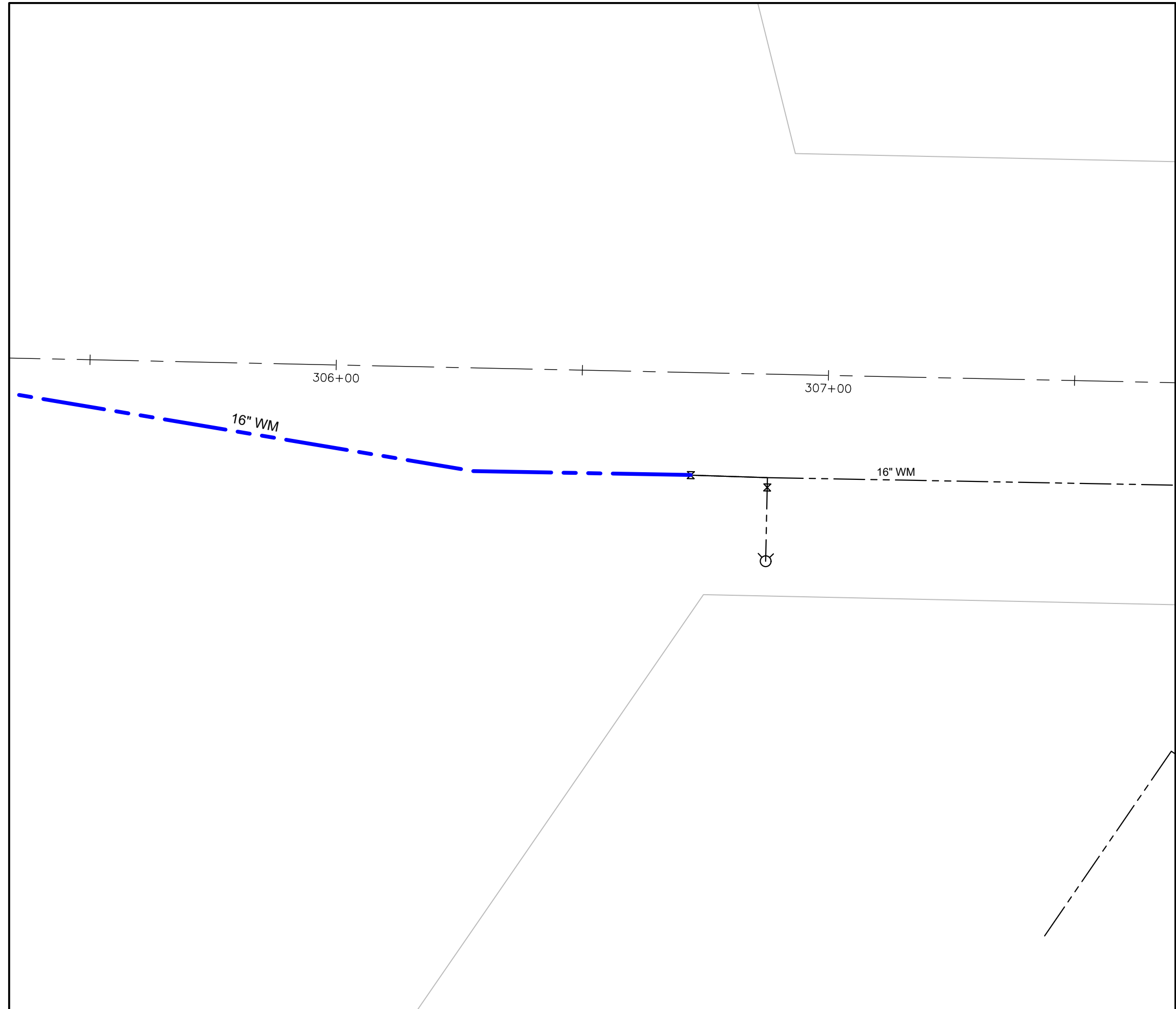
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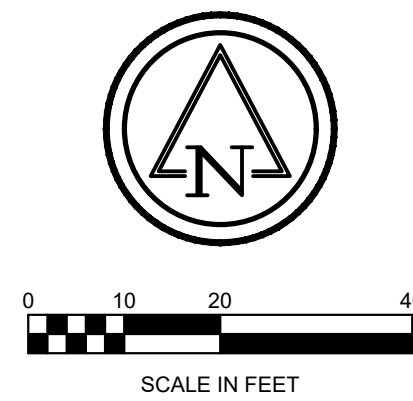
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SHEET NO.
INDEX-01R-4

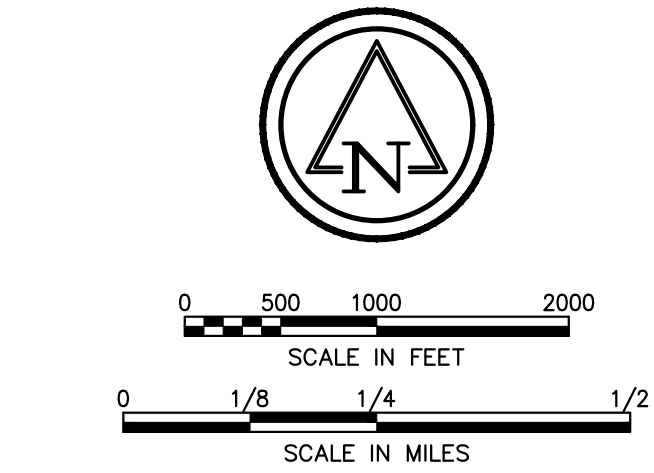
WATER MAIN
CONNECTION 2
SHEET WM-26
STATION 306+75



 PROPOSED WATER MAIN
 EXISTING WATER MAIN
 EXISTING HYDRANT
 EXISTING VALVE



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1. USE LOCALIZED FLAGMAN CONTROL ON ALL ACTIVE OPERATIONS.
2. FOLLOW ALL WISDOT AND MUTCD GUIDELINES.
3. COVER ALL SIGNS WHEN NOT APPLICABLE.

	PERMANENT SIGN ON SUPPORT
	WATER MAIN STUB TO SOUTH ACROSS BRAUN ROAD
SHEET # 	LANE CLOSURE
SHEET # 	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT ON HAUL ROAD
	VEHICLE ENTRANCE/EXIT ON HAUL ROAD - FOLLOW
	LANE CLOSURE - FOLLOW



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SHEET NO. WM-01

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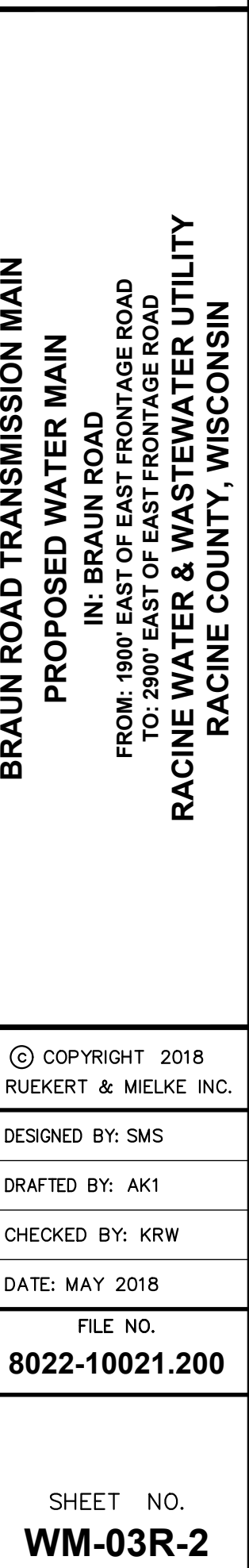
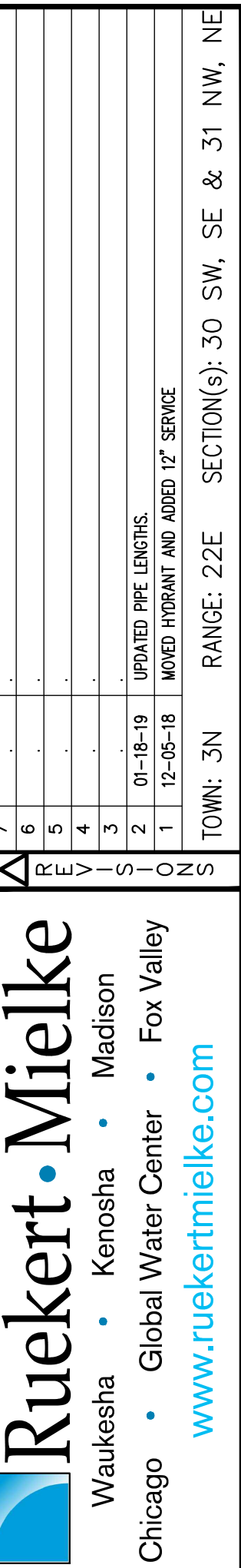


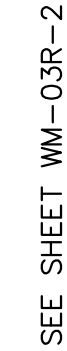
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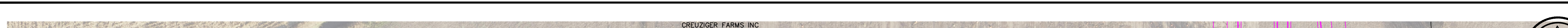
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7	-	-
6	-	-
5	-	-
4	-	-
3	-	-
2	12-14-18	ADJUSTED HYDRANT INVERTS
1	08-08-18	ADDED VALVES PER MONR COMMENTS AND ADJUSTED WATER PER WYW ALIGNMENT
TOWN: 3N RANGE: 22E SECTION(s): 30 SW & 31NW		





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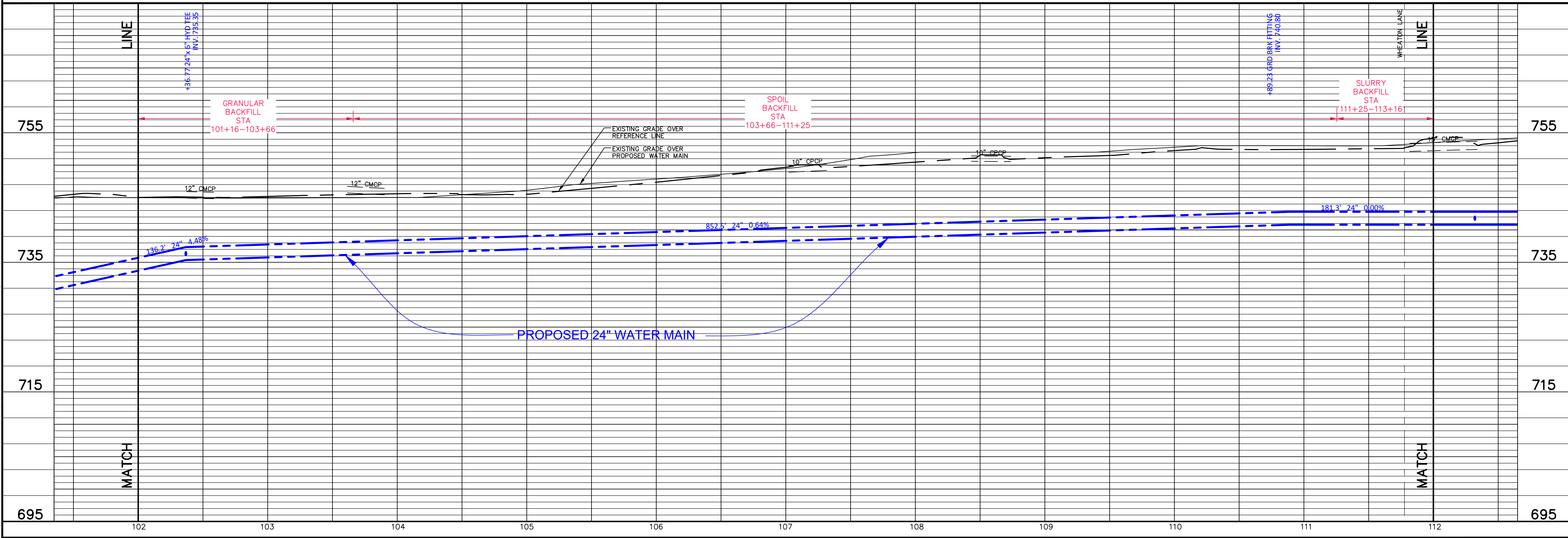
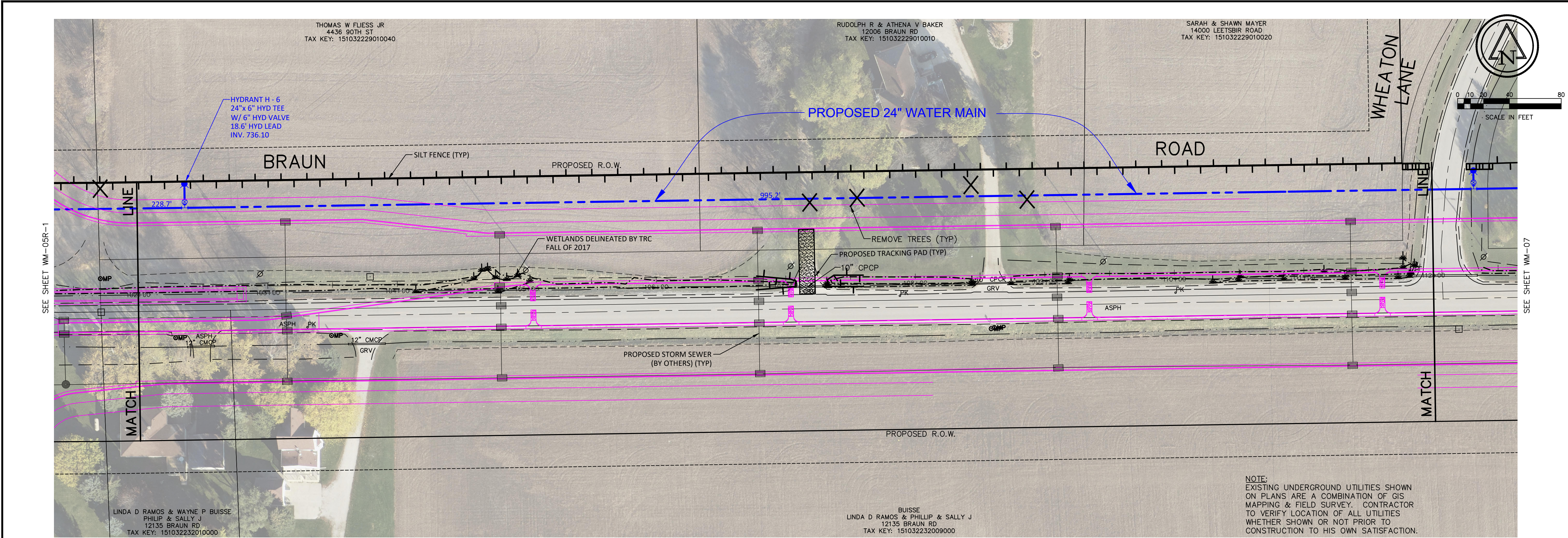
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**BRAUN ROAD TRANSMISSION MAIN
PROPOSED WATER MAIN
IN: BRAUN ROAD
FROM: 3900' EAST OF EAST FRONTAGE ROAD
TO: 1000' WEST OF WHEATON LANE
RACINE WATER & WASTEWATER UTILITY
RACINE COUNTY, WISCONSIN**

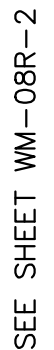
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RUEKERT & MIELKE INC. 8022-10021.200



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TOWN: 3N RANGE: 22E SECTION(S): 29 SW & 32 NW	
BRAUN ROAD TRANSMISSION MAIN	
PROPOSED WATER MAIN	
IN: BRAUN ROAD	
FROM: 100' EAST OF WHEATON LANE	
TO: WHEATON LANE	
RACINE WATER & WASTEWATER UTILITY	
RACINE COUNTY, WISCONSIN	
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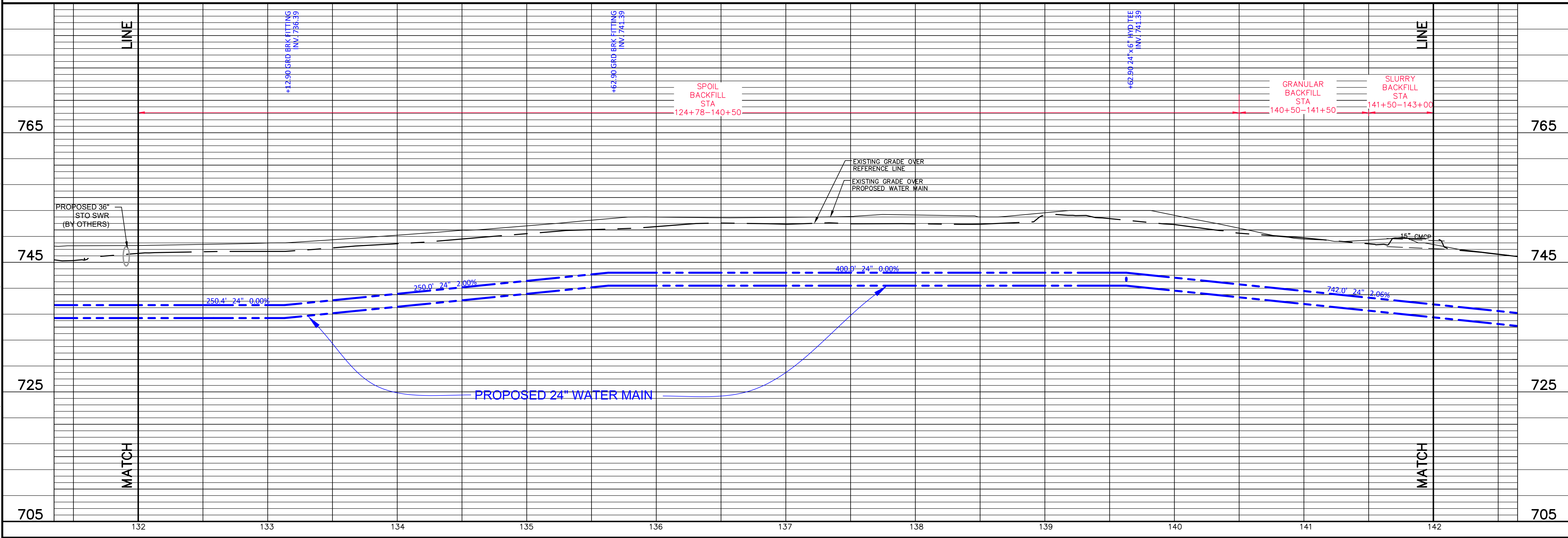
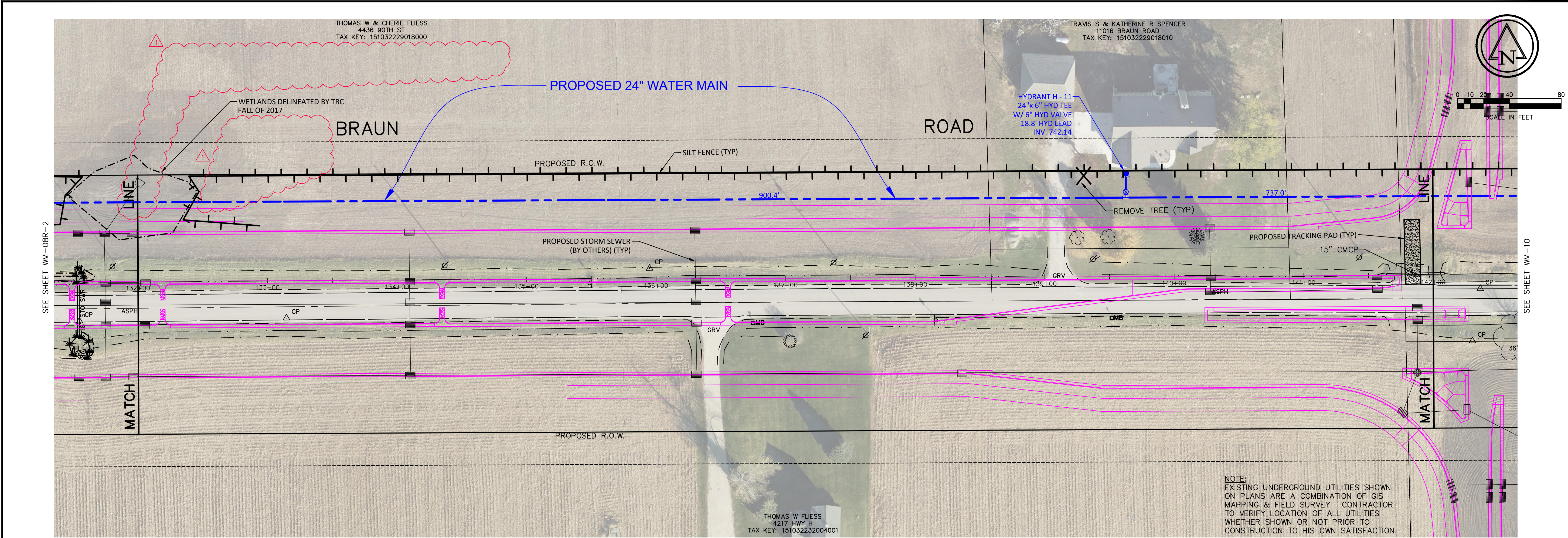
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SECTION(S): 29 SE & 32 NE	
RANGE: 22E	
TOWN: 3N	
ADDITION # 2	
5/24/18	
2	
3	
4	
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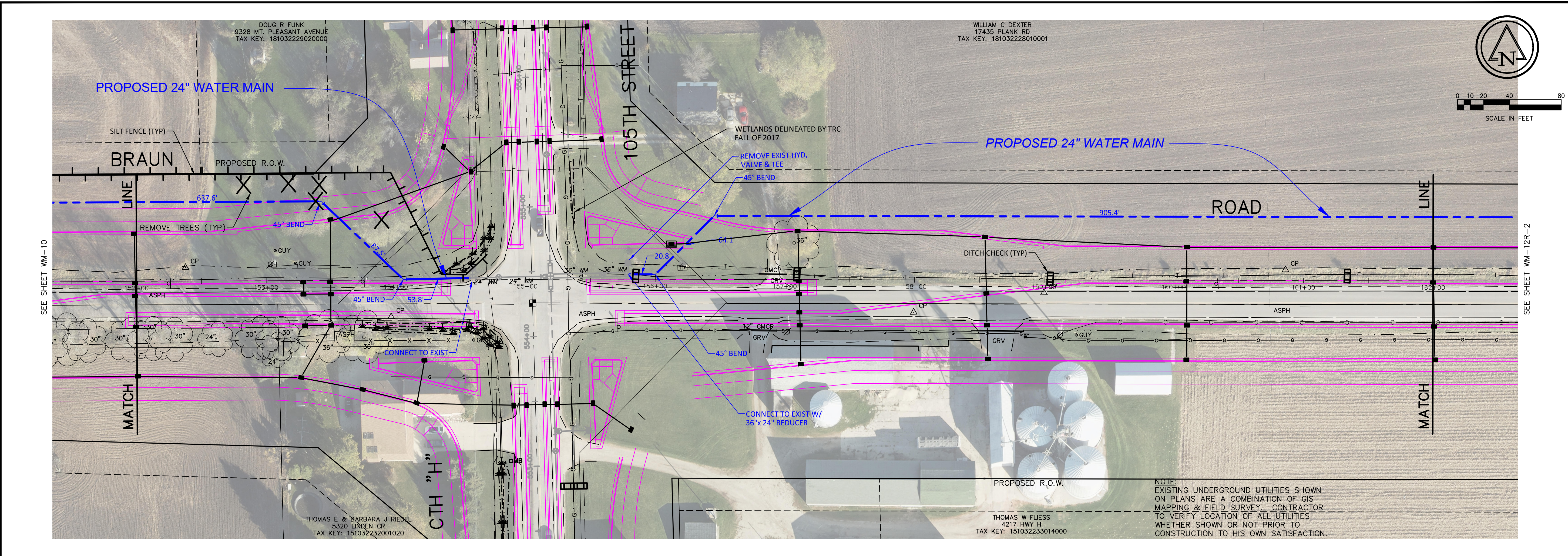
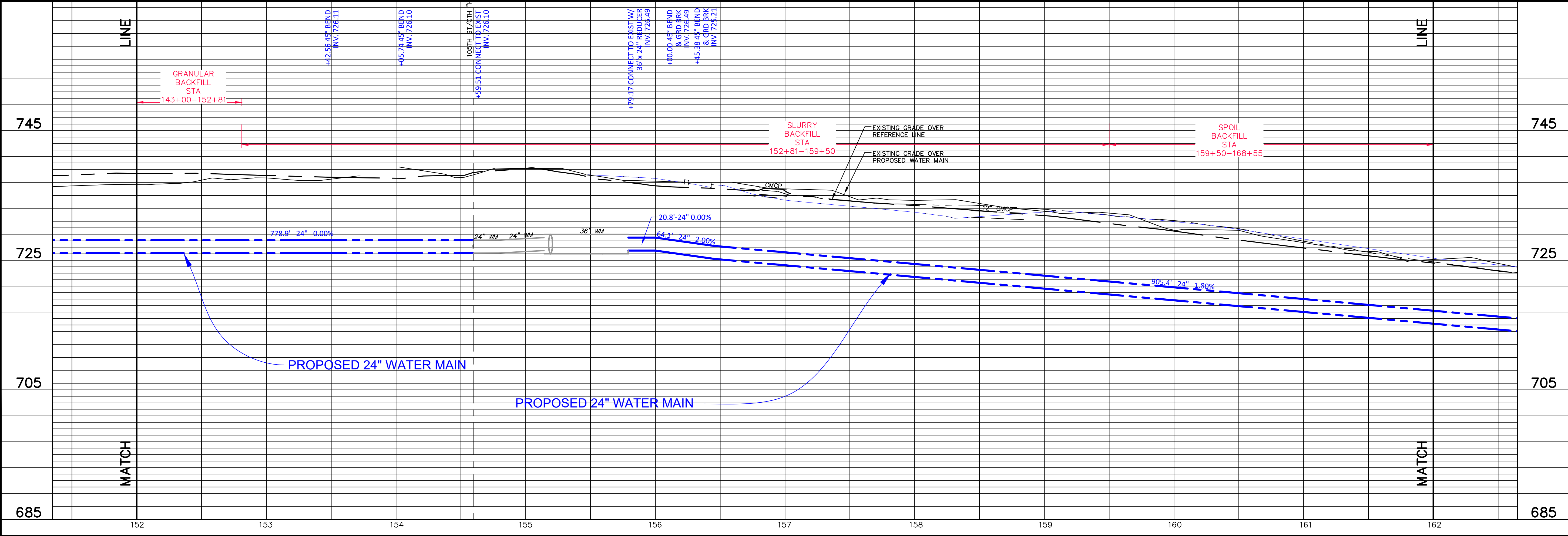
BRAUN ROAD TRANSMISSION MAIN	
PROPOSED WATER MAIN	
IN: BRAUN ROAD	
FROM: 2000' EAST OF WHEATON LANE	
TO: 1350' WEST OF CTH "H" / 105TH STREET	
RACINE WATER & WASTEWATER UTILITY	
RACINE COUNTY, WISCONSIN	
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SHEET NO.
WM-11R-2

BRAUN ROAD TRANSMISSION MAIN
PROPOSED WATER MAIN
IN: BRAUN ROAD
FROM: 350' WEST OF CTH "H" / 105TH STREET
TO: 650' EAST OF CTH "H" / 105TH STREET
RACINE WATER & WASTEWATER UTILITY
RACINE COUNTY, WISCONSIN

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7

6

5

4

3

2

1

REVISED TO SHOW MANDATORY ALT BID IN PROFILE

ADDED GRADE OVER ALTERNATE WATER MAIN

TOWN: 3N

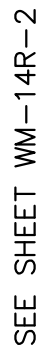
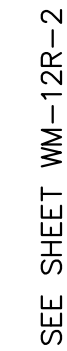
RANGE: 22E

SECTION(S): 29SE, 28SW, 32NE, 33NW

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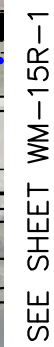
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FILE NO. 8022-10021.200	
SHEET NO. WM-13R-5	

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7	.	.	.
6	.	.	.
5	03-13-19	PIPE PROFILE ADJUSTED TO REVISED ALIGNMENT	
4	02-25-19	REVISED ALIGNMENT DUE TO MISDOT ROADWAY RECONSTRUCTION	
3	05-31-18	ADDENDUM 2	
2	08-08-18	ADDED VALVES PER WMAIR COMMENTS	
1	08-30-18	UPDATED TEE LOCATIONS.	
TOWN: 3N			RANGE: 22E SECTION(s): 28SW & 33NW



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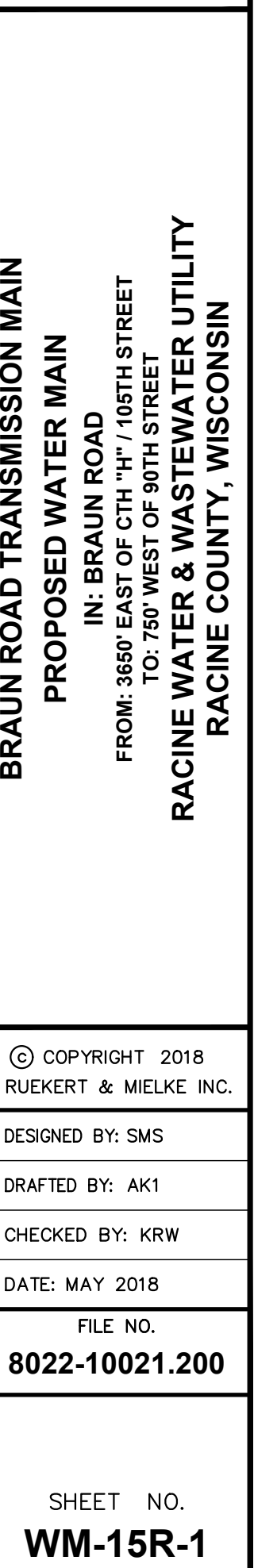
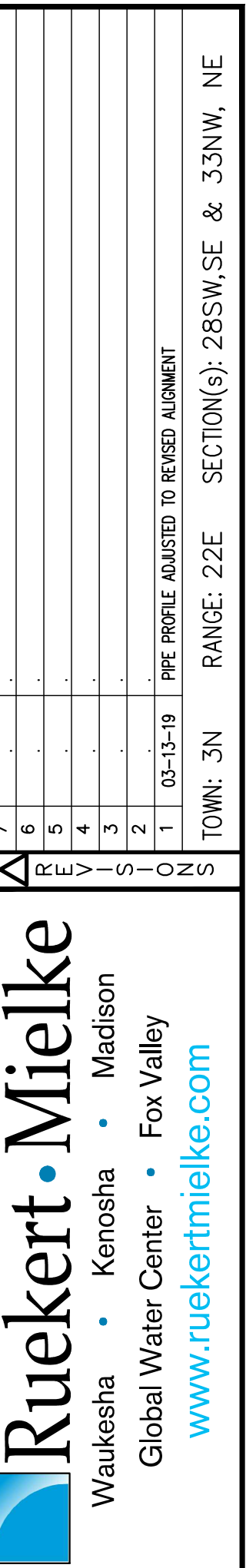
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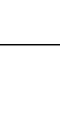
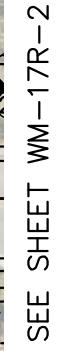
DATE: MAY 2018

FILE NO.
8022-10021.200

SHEET NO.
WM-14R-2

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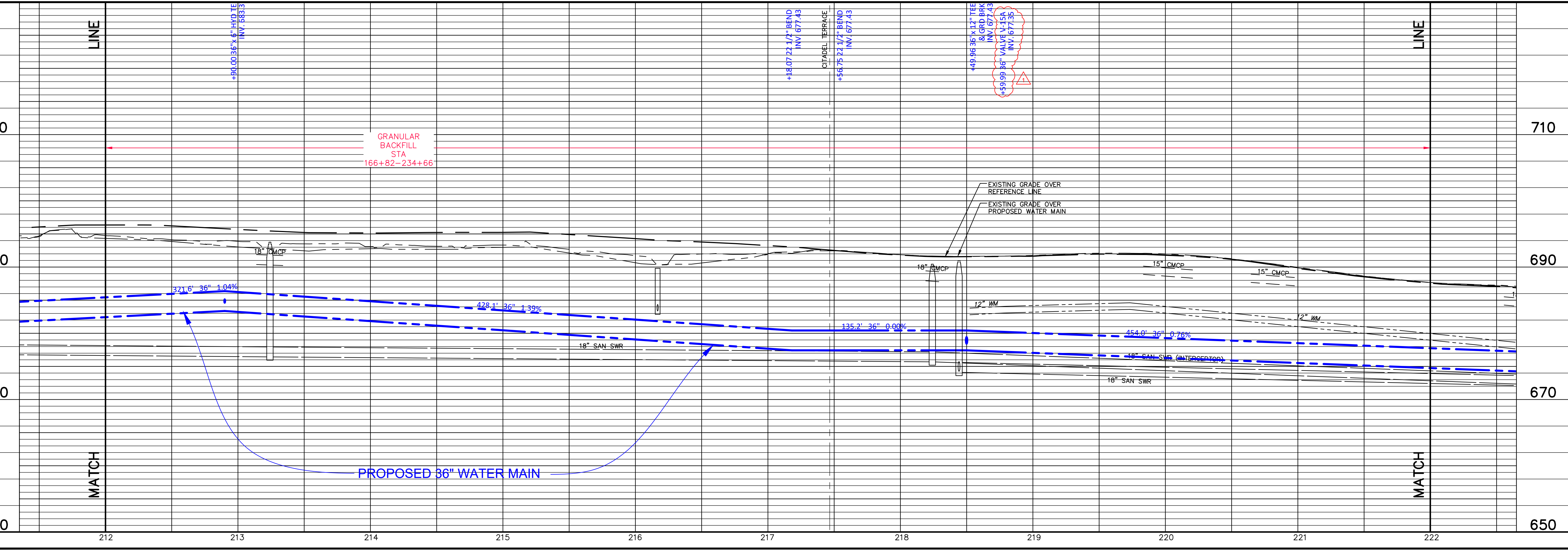
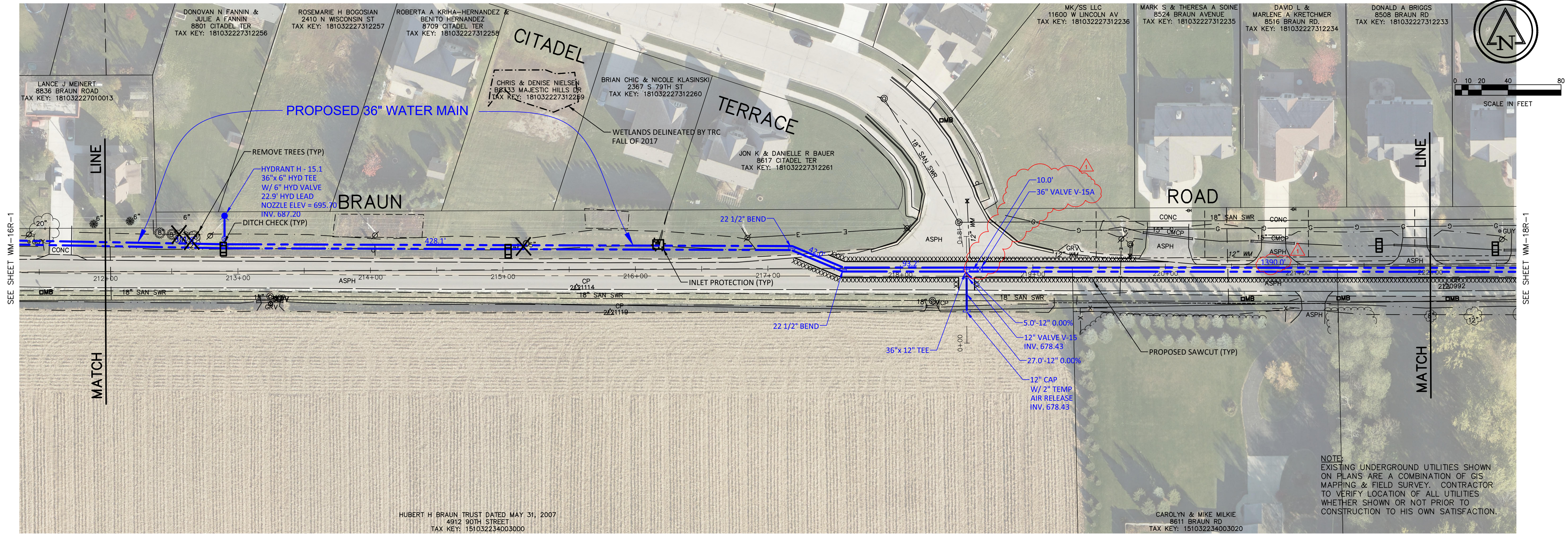




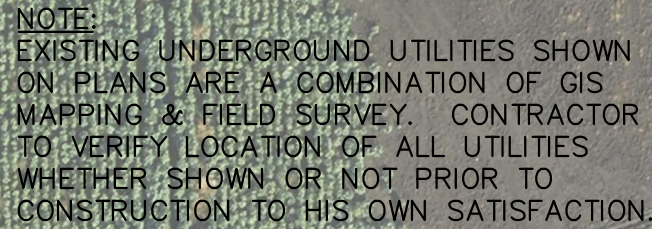
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FILE NO. 8022-10021.200
SHEET NO. WM-16R-1

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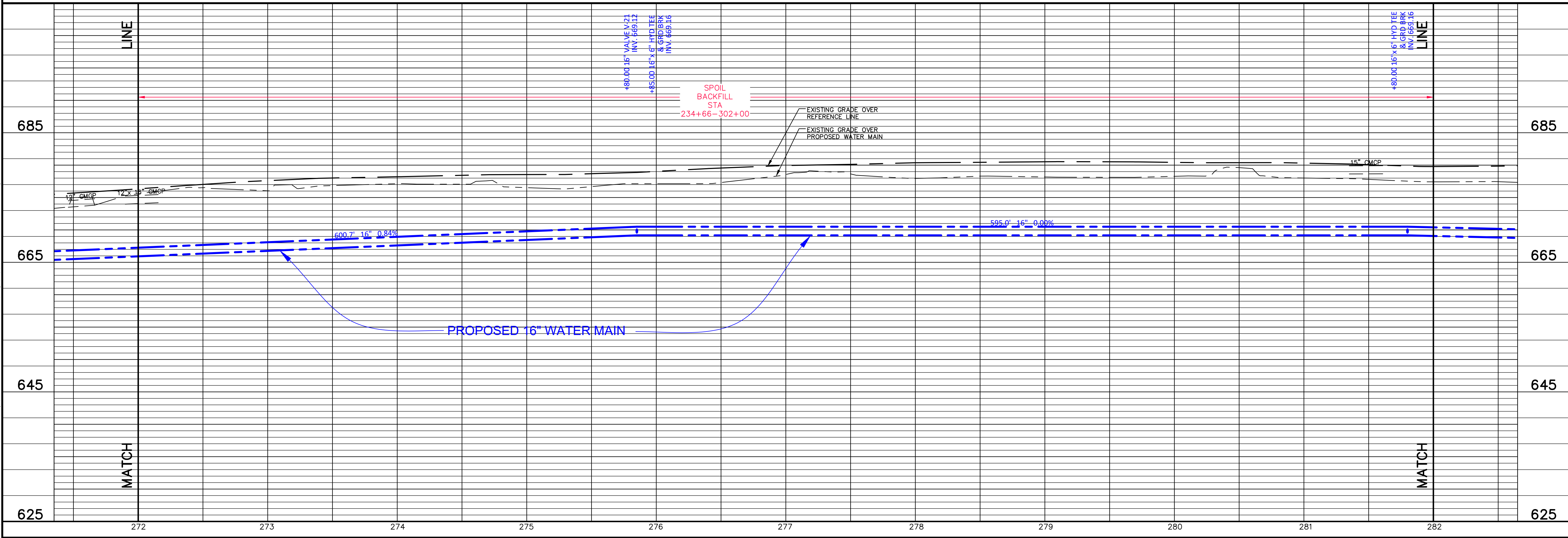
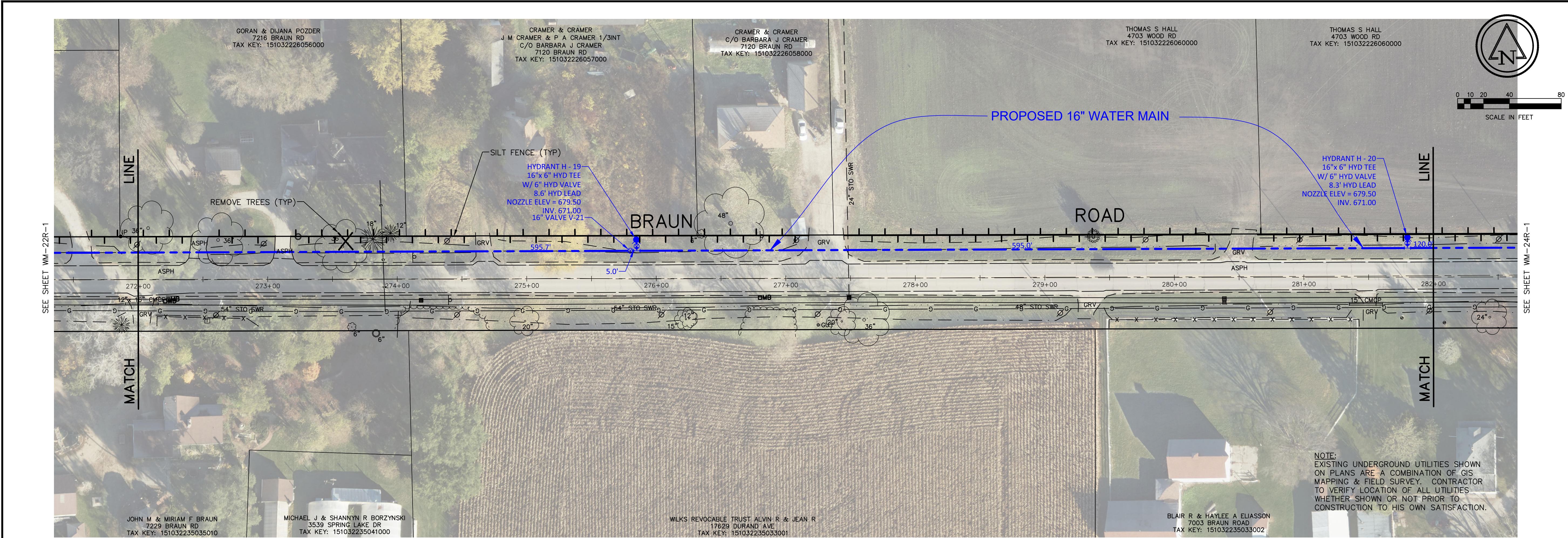
BRAUN ROAD TRANSMISSION MAIN PROPOSED WATER MAIN IN: BRAUN ROAD FROM: 350' EAST OF 90TH STREET TO: 250' EAST OF CITADEL TERRACE RACINE WATER & WASTEWATER UTILITY RACINE COUNTY, WISCONSIN		 Ruekert • Mielke Waukesha • Kenosha • Madison Global Water Center • Fox Valley www.ruekertmielke.com	
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DRAFTED BY: AK1		CHECKED BY: KRW	
DATE: MAY 2018		FILE NO. 8022-10021.200	
SHEET NO. WM-17R-2		TOWN: 3N RANGE: 22E SECTION(s): 27SW, 34NW	



SHEET NO.
WM-18R-1

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Mar 19, 2019 10:22am PLOTTED BY:DKlemm SAVED BY:akreuser
IMAGES: 248; RM SQUARE_Full Color=Print; OFFICES: RM_Pbnt; Basemap, Utsahr, Proposed ROW, Kapp, Wetlands=TPC; Wetlands=Cardno; Ecoa_Braun Rd
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R0223440



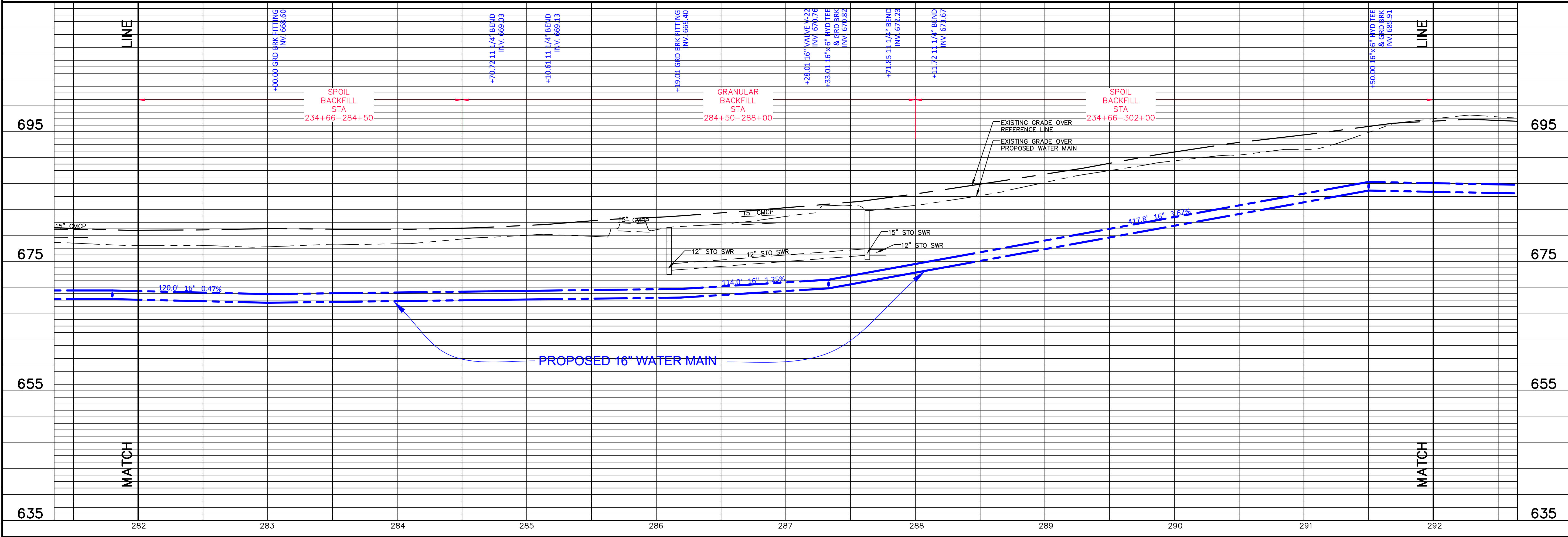
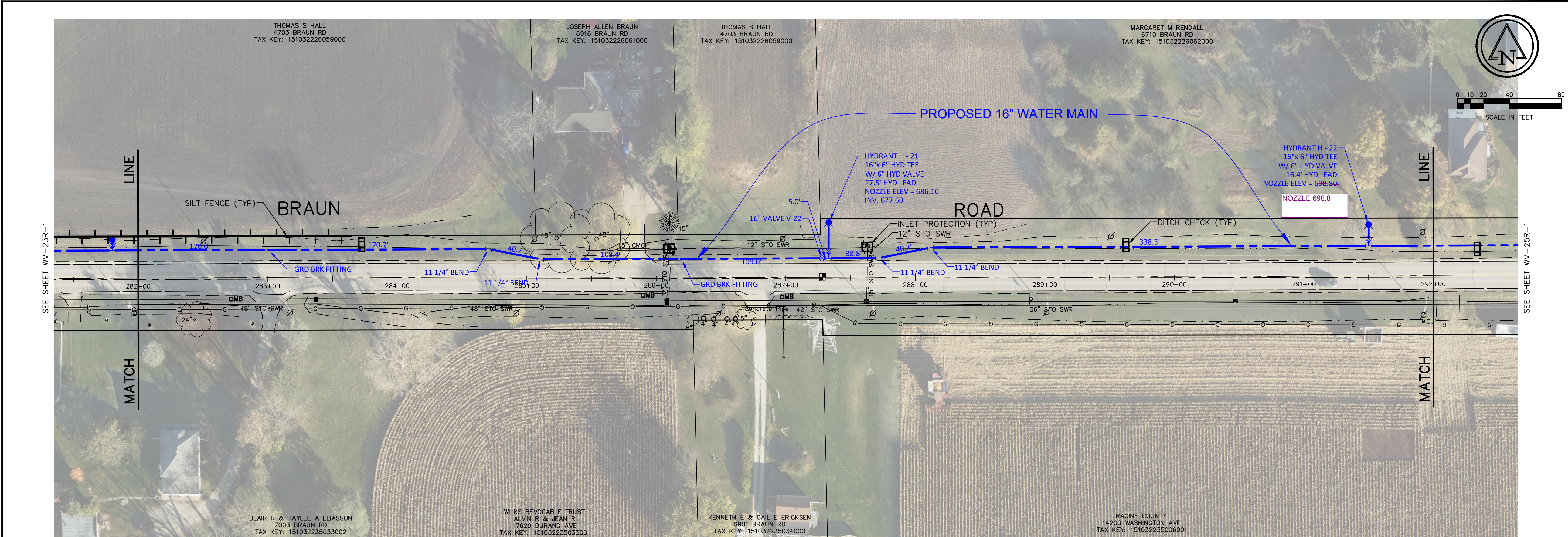
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DESIGNED BY: SMS	
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CHECKED BY: KRW	
DATE: MAY 2018	
FILE NO. 8022-10021.200	
SHEET NO. WM-23R-1	

7	6	5	4	3	2	1
PPE PROFILE ADJUSTED TO REVISION ALIGNMENT						
TOWN: 3N						
RANGE: 22E						
SECTION(S): 27SE, 26SW, 34NE, 35NW						

BRAUN ROAD TRANSMISSION MAIN
PROPOSED WATER MAIN
IN: BRAUN ROAD
FROM: 2900' EAST OF WILLOW ROAD
TO: 2300' WEST OF S GREEN BAY ROAD
RACINE WATER & WASTEWATER UTILITY
RACINE COUNTY, WISCONSIN

www.ruekertmielke.com

Mar 19, 2019 10:24am PLOTTED BY:DKlemm SAVED BY:akreuser
IMAGES: 248; 249; RM SQUARE_Full Color-Print; 00-BRANCH OFFICES; RM_Pmto; Bearnaps; Ubbahr; Proposed ROW_Kapur; Ecoa_Braun Rd; Wetlands-TRC
G:\00-2019\0022-Source Water Utility\10021_Braun Road Water Main\00-248.dwg
RUEKERT & MIELKE INC. 2018



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Global Water Center • Fox Valley	
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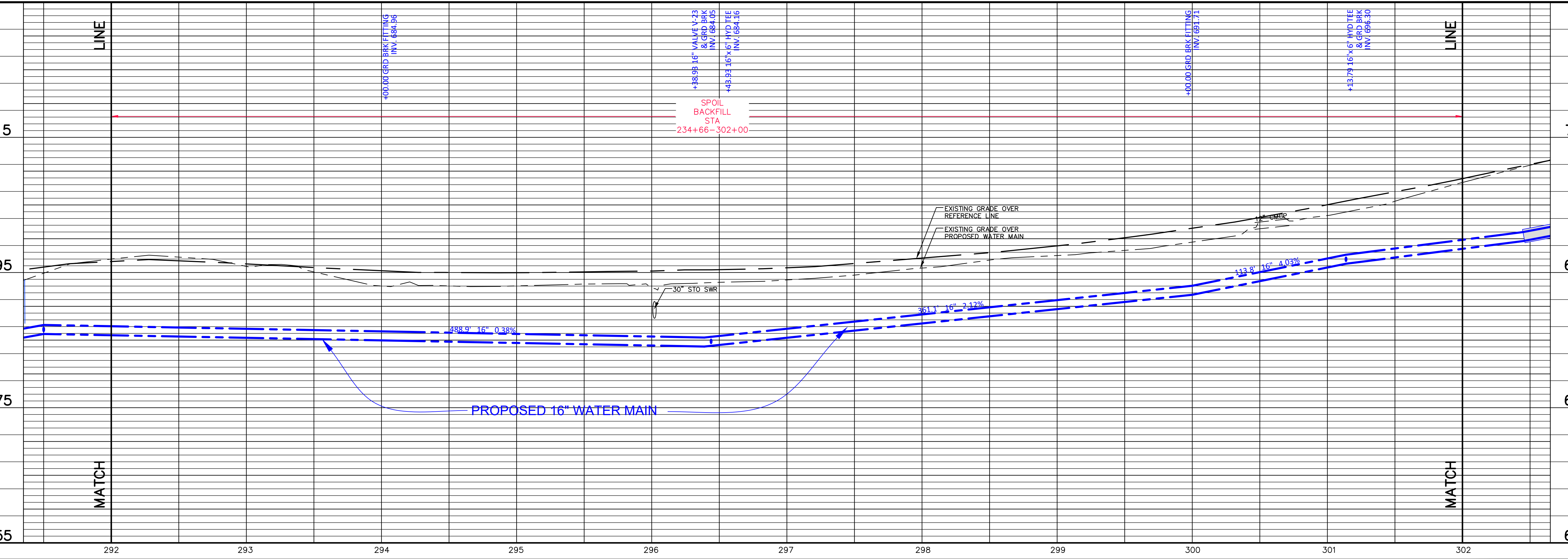
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TOWN: 3N RANGE: 22E SECTION(S): 26SW, 35NW						

BRAUN ROAD TRANSMISSION MAIN	
PROPOSED WATER MAIN	
IN: BRAUN ROAD	
FROM: 2300' WEST OF S GREEN BAY ROAD	
TO: 1300' WEST OF S GREEN BAY ROAD	
RACINE WATER & WASTEWATER UTILITY	
RACINE COUNTY, WISCONSIN	

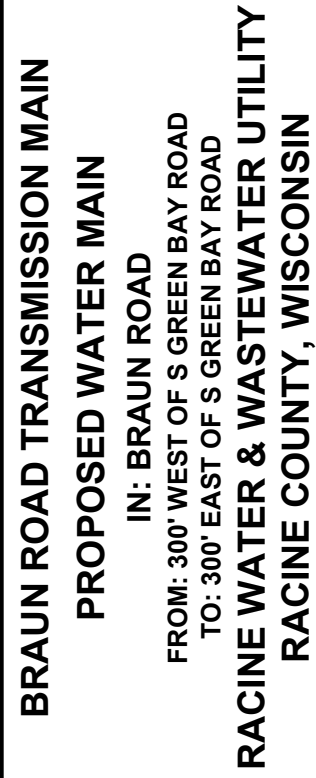
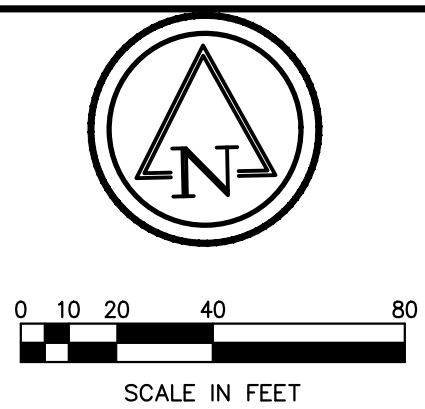
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DRAFTED BY: AKI	
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DATE: MAY 2018	
FILE NO. 8022-10021.200	

SHEET NO. WM-24R-1	
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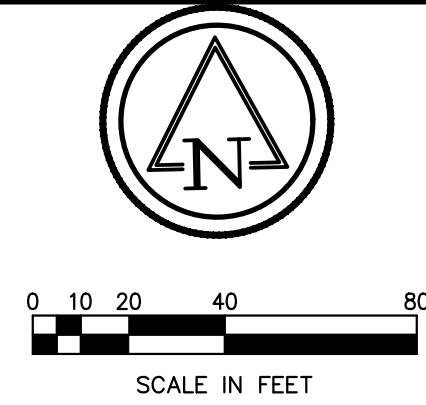
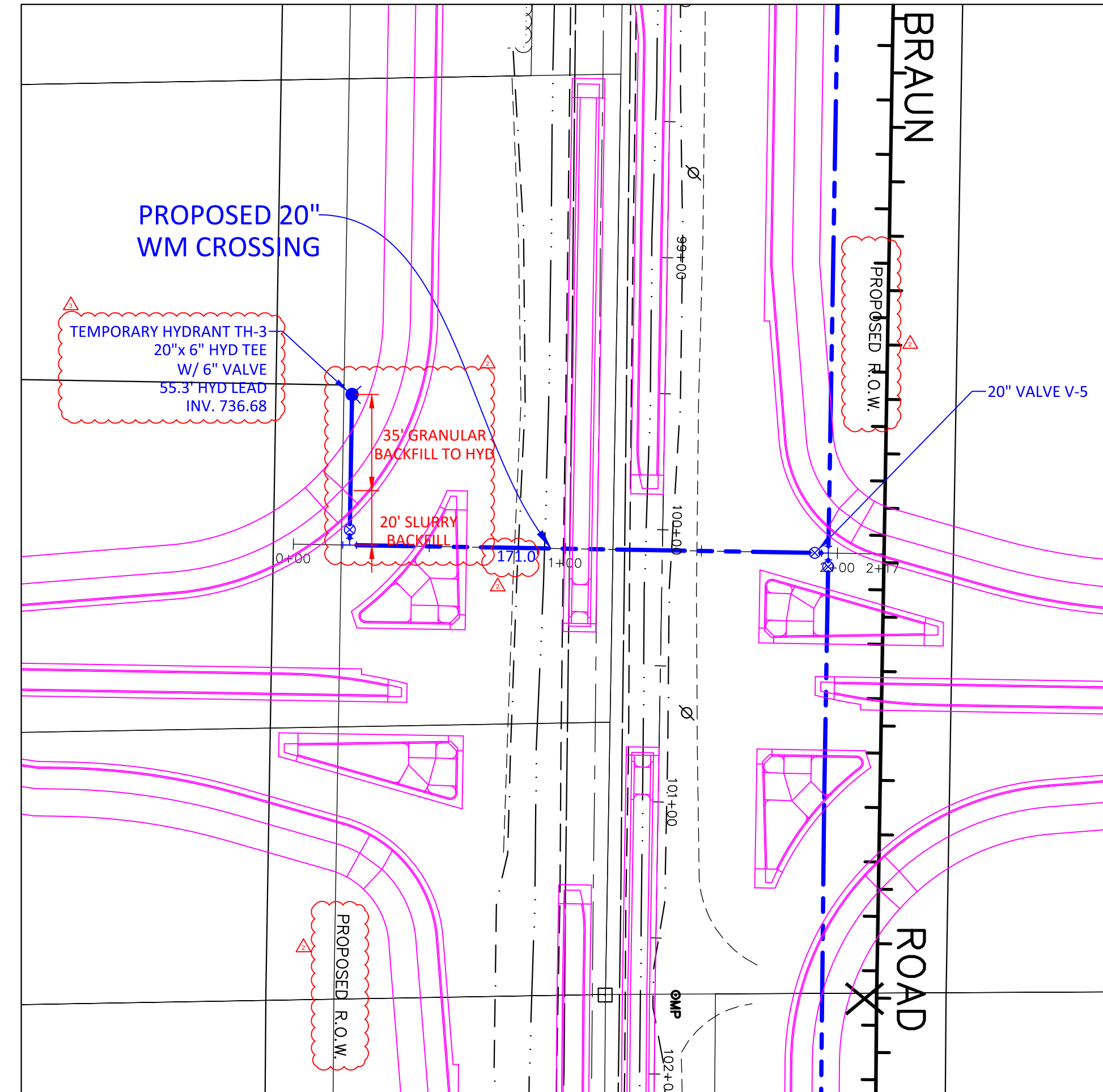
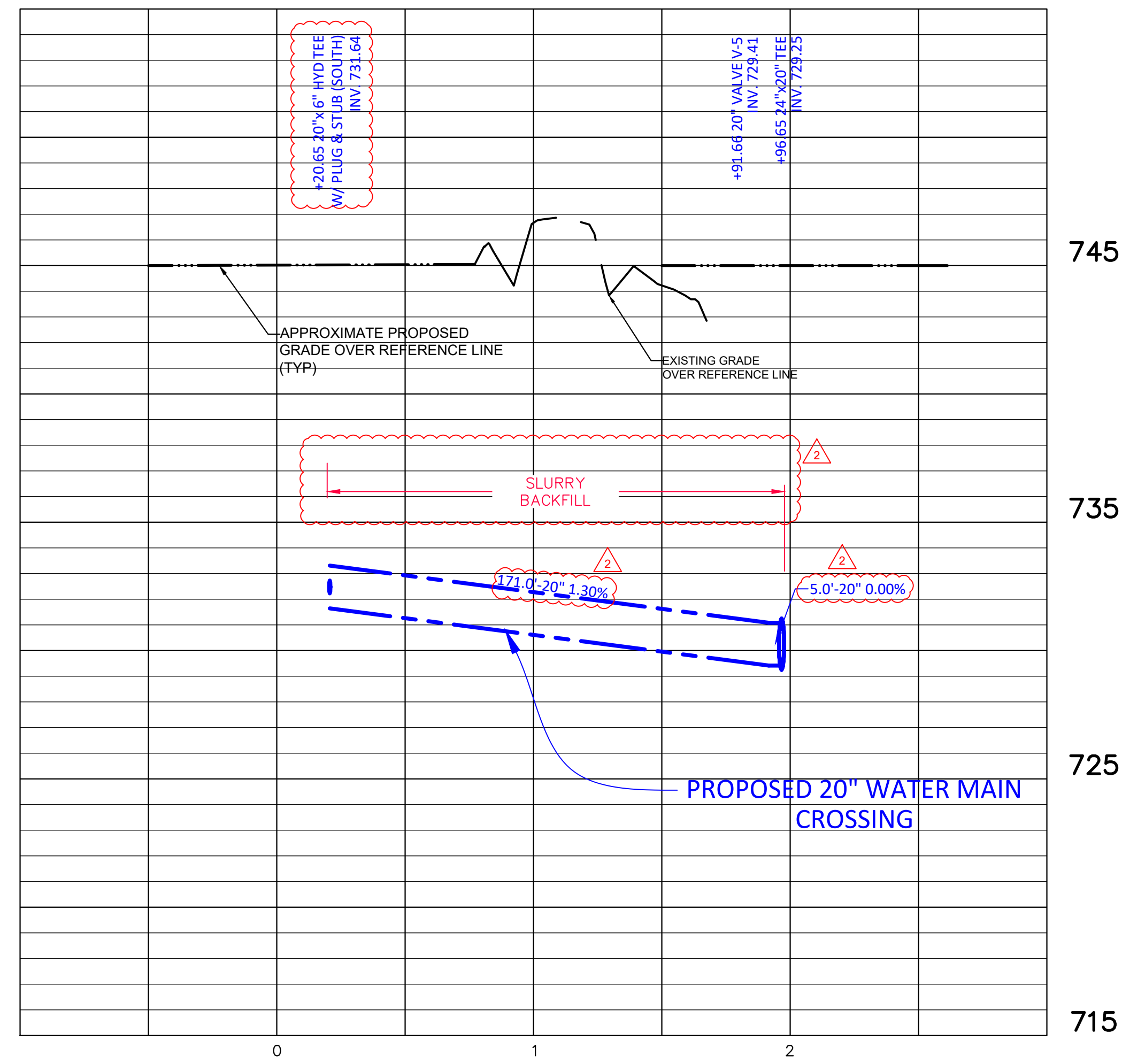
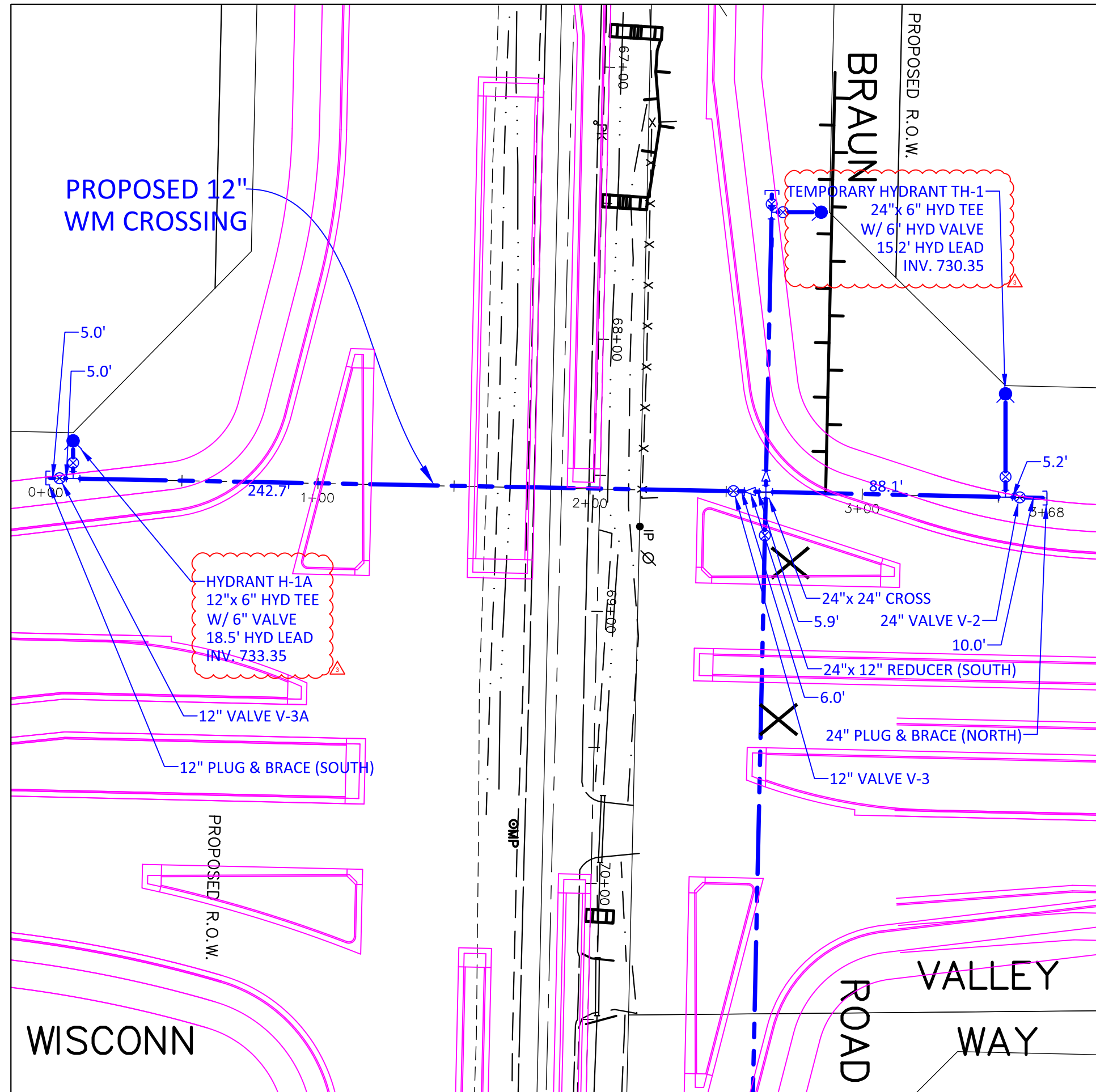
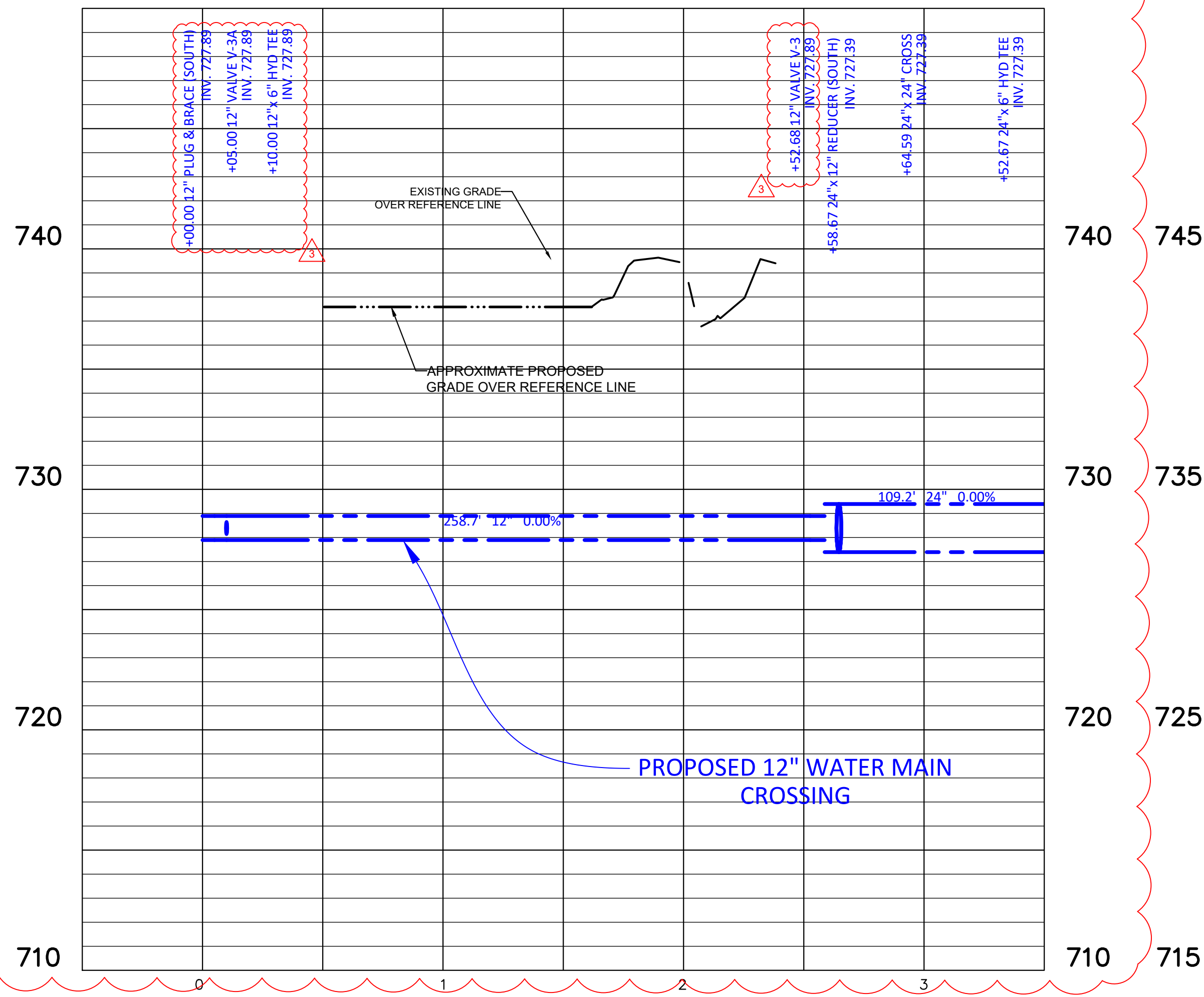
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DATE:	MAY 2018
FILE NO. 8022-10021.200	
SHEET NO. WM-25R-1	

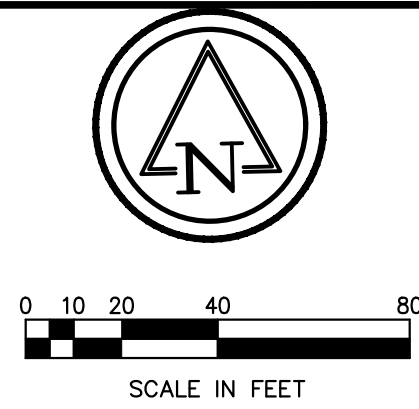
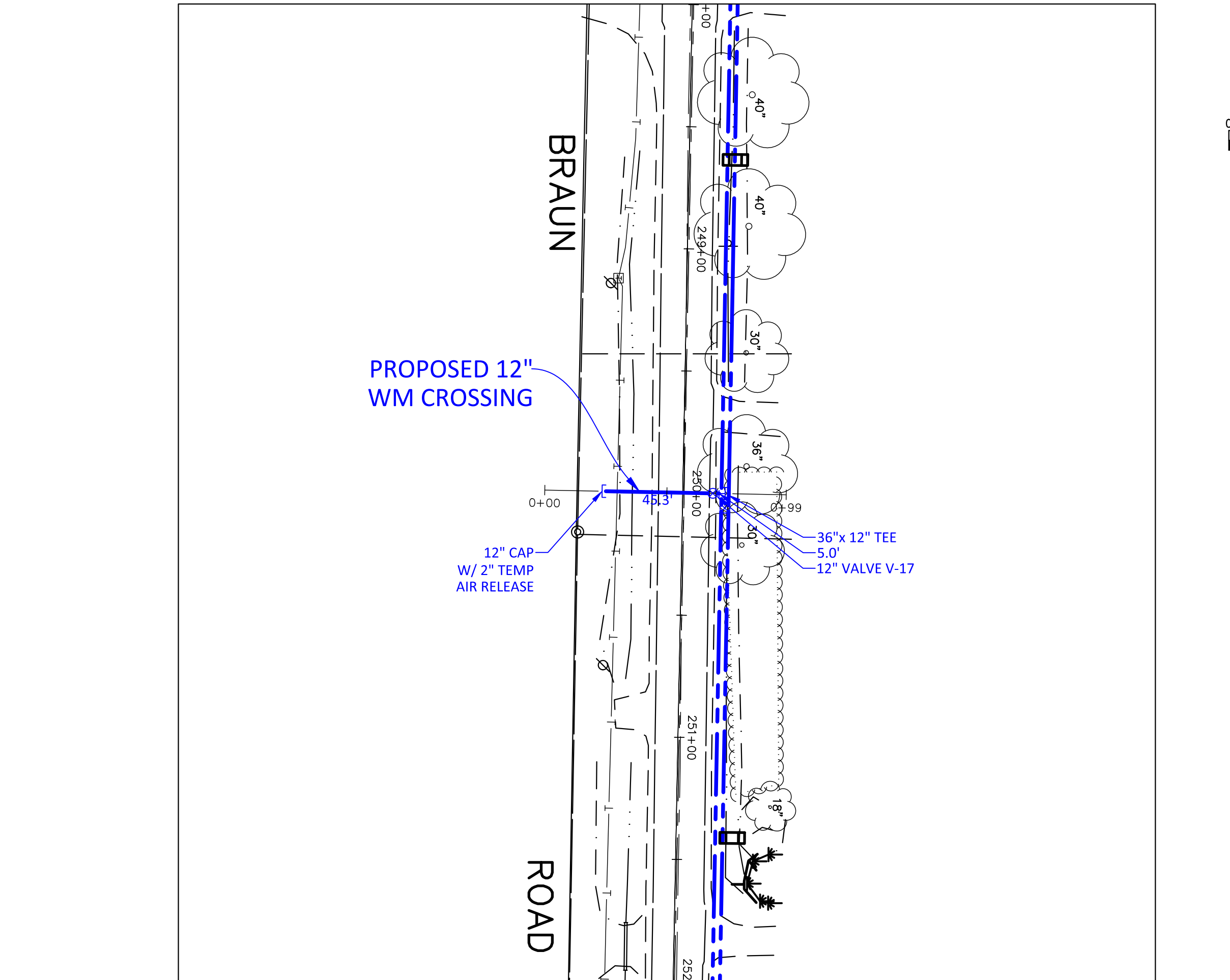
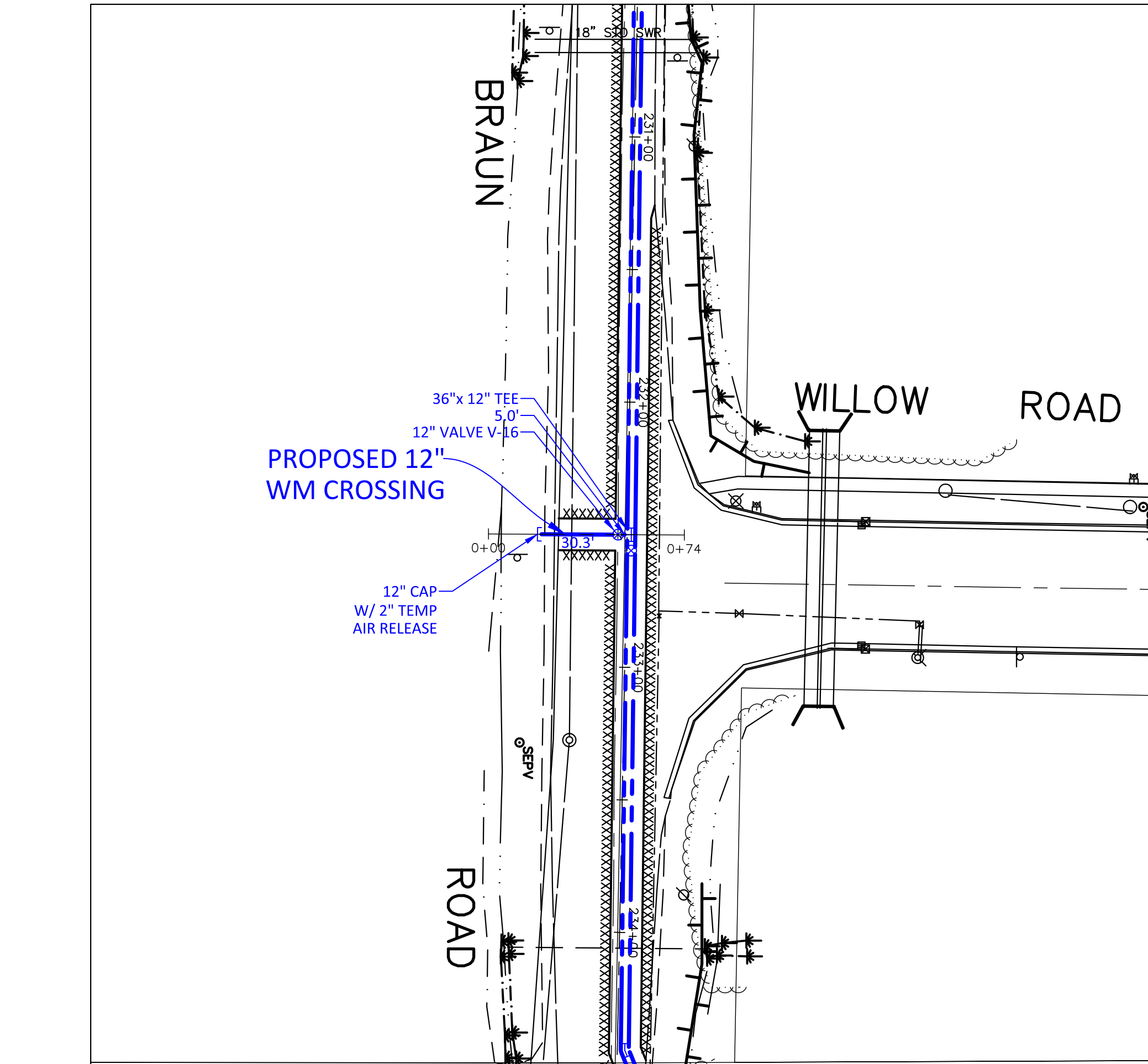


SHEET NO.
WM-26R-1

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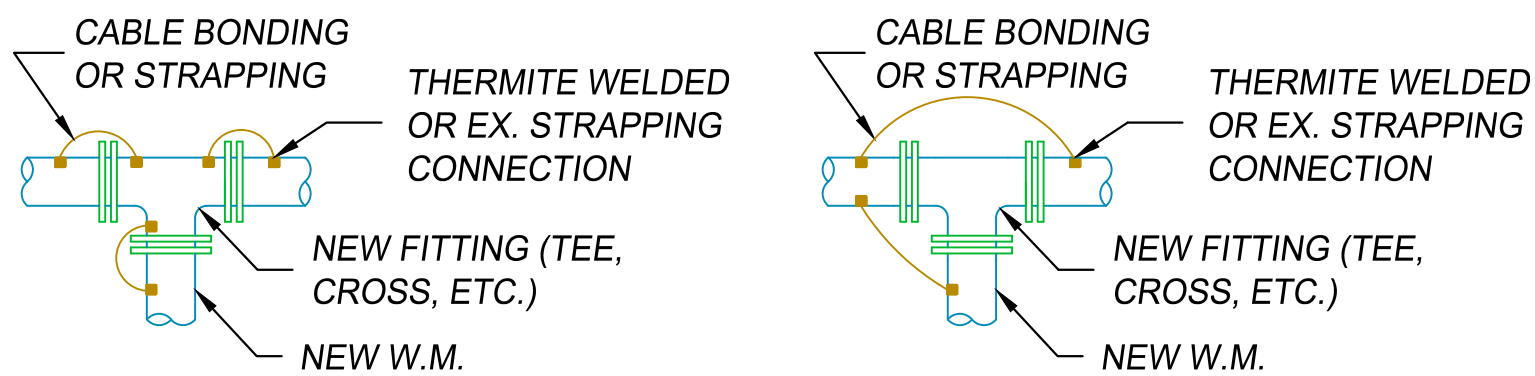
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ADRIUM 2			
1	05-31-18		
TOWN:	3N	RANGE:	22E
SECTION(s):	26SE, 35NE		





BRAUN ROAD TRANSMISSION MAIN PROPOSED CROSSINGS RACINE WATER & WASTEWATER UTILITY RACINE COUNTY, WISCONSIN		 Ruekert • Mielke Waukesha • Kenosha • Madison Chicago • Global Water Center • Fox Valley www.ruekertmielke.com	
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DRAFTED BY: AK1		CHECKED BY: KRW	
DATE: MAY 2018		FILE NO. 8022-10021.200	
SHEET NO. WM-29		TOWN: RANGE: SECTION(s):	

RM2246



METHOD 1

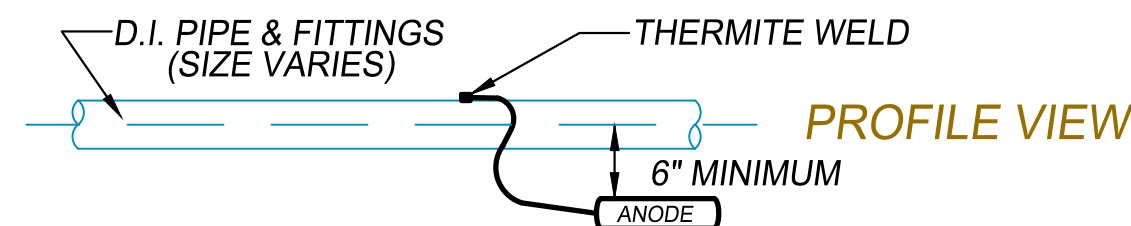
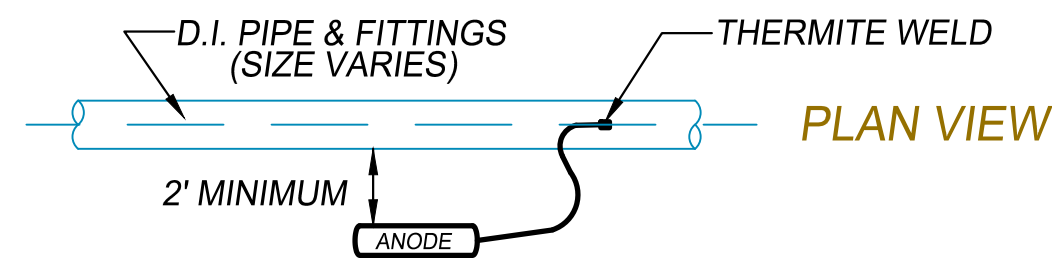
METHOD 2

NOTE

1. AT VALVE LOCATIONS, CABLE BONDING OR STRAPPING SHALL GO AROUND VALVE.
2. THERMITE WELDED CONNECTIONS SHALL BE COMPLETELY COATED WITH AN APPROVED BITUMASTIC COATING (KOPPERS 50, 505, OR EQUAL)

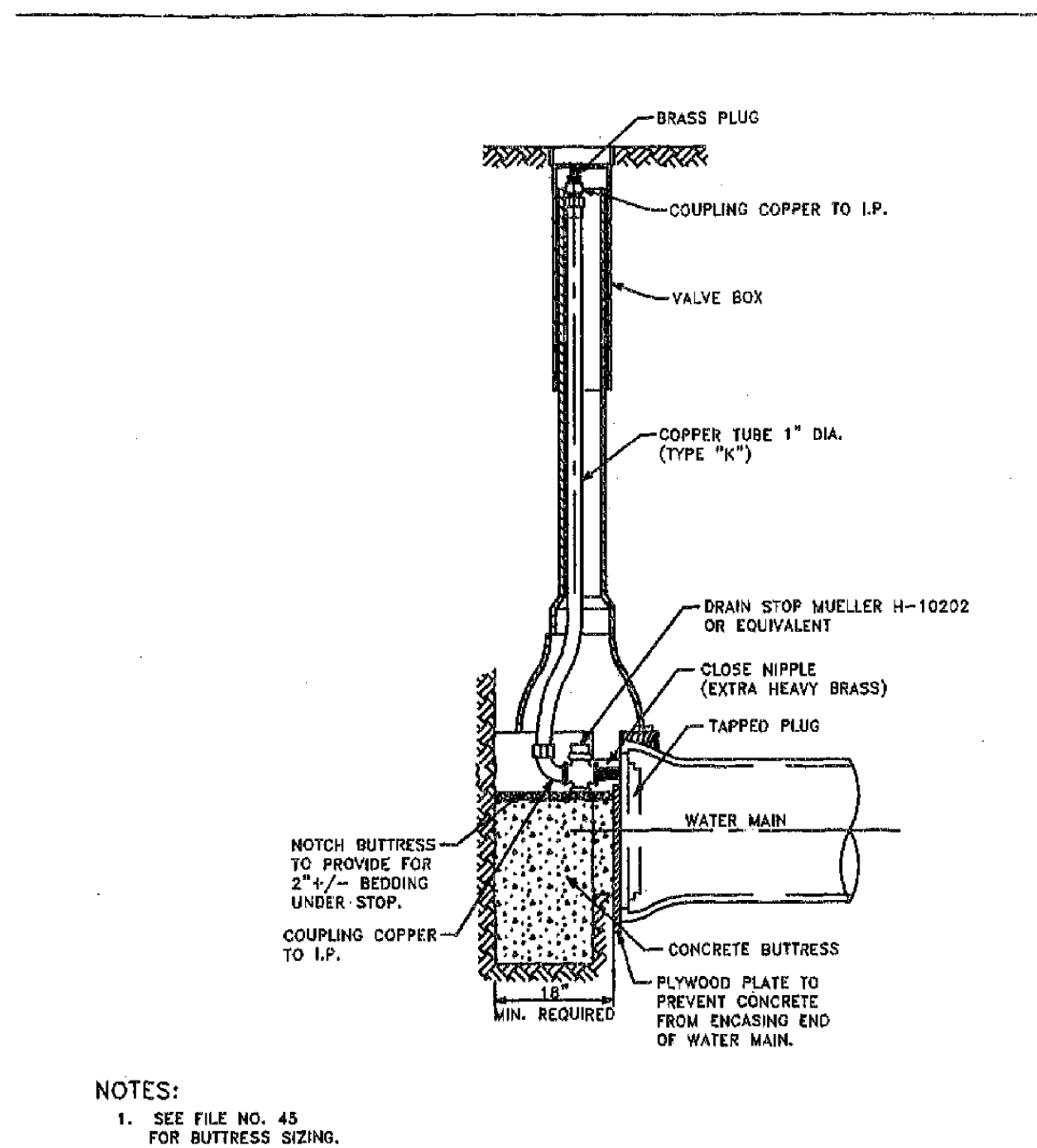
CABLE BONDING OR STRAPPING DETAIL FOR DUCTILE IRON PIPE

N.T.S.



ANNODE CONNECTION DETAIL

N.T.S.



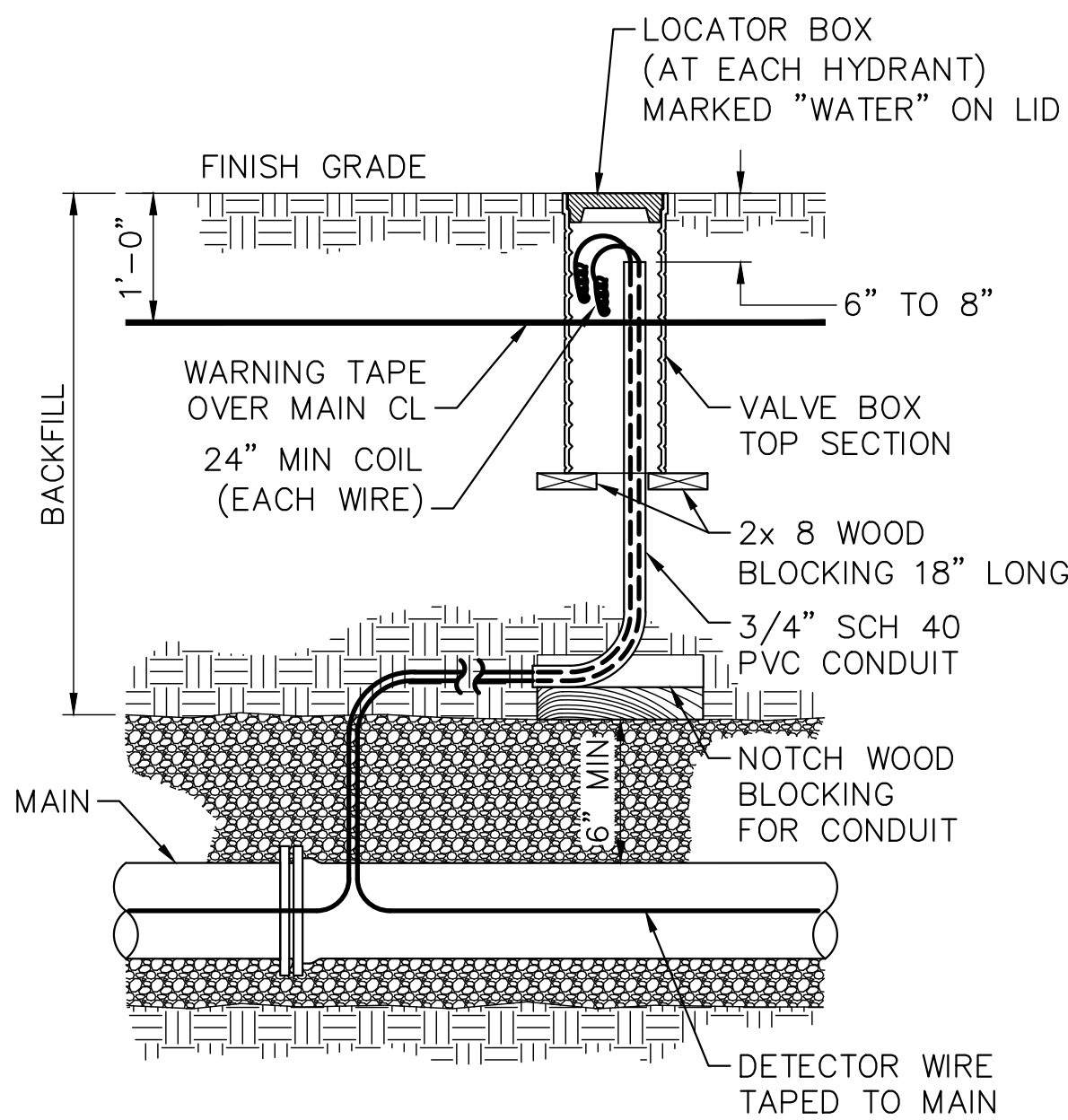
- NOTES:
1. SEE FILE NO. 45 FOR BUTRESS SIZING.

REF. SEC. 4.3.1.3.

CONCRETE BUTRESS FOR PLUG WITH AIR VENT FOR 20" & SMALLER

NOT TO SCALE
DECEMBER 2003

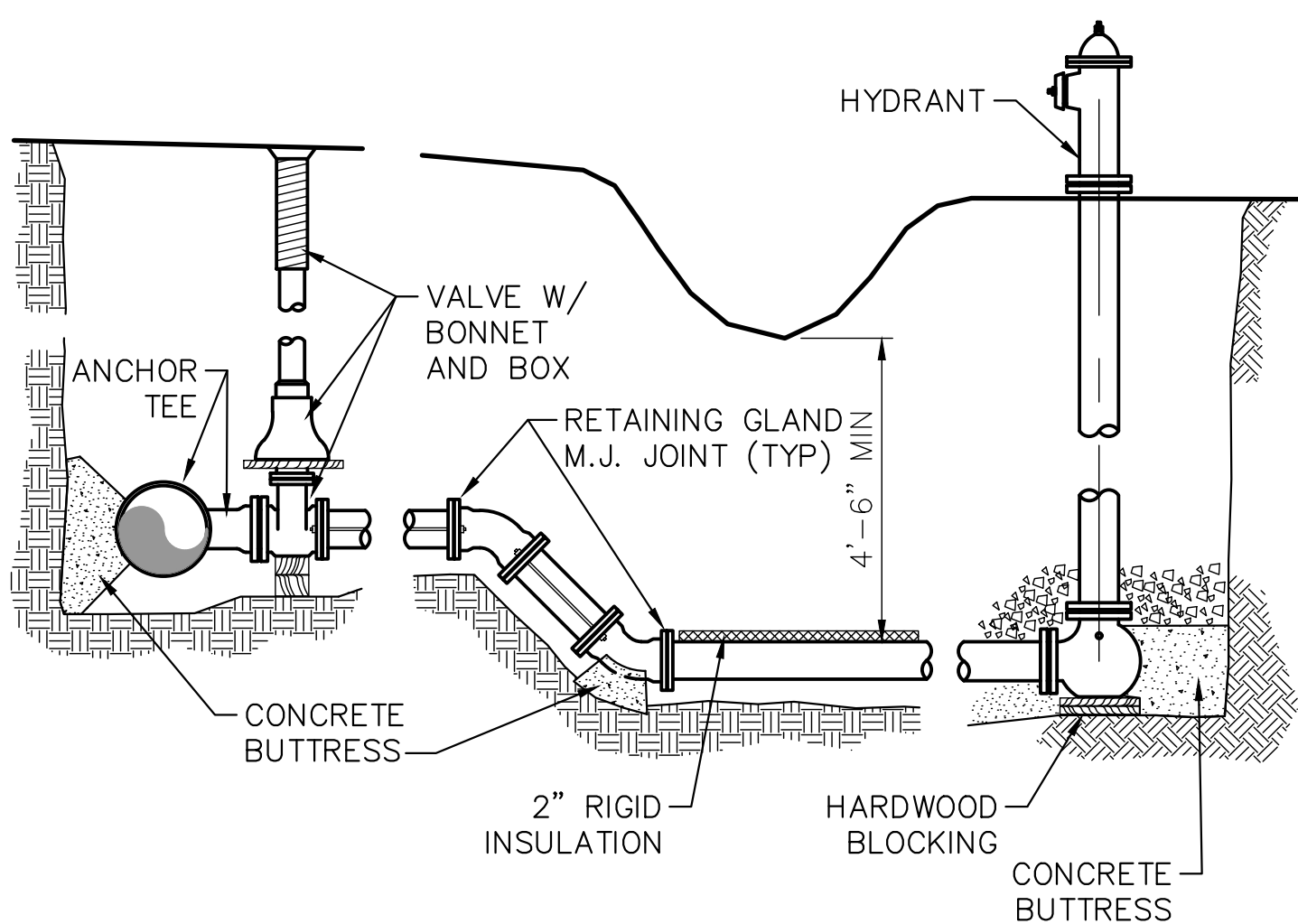
FILE NO. 43



DETECTOR WIRE AND LOCATION BOX AT EACH HYDRANT

WT-TW-01 16

NO SCALE

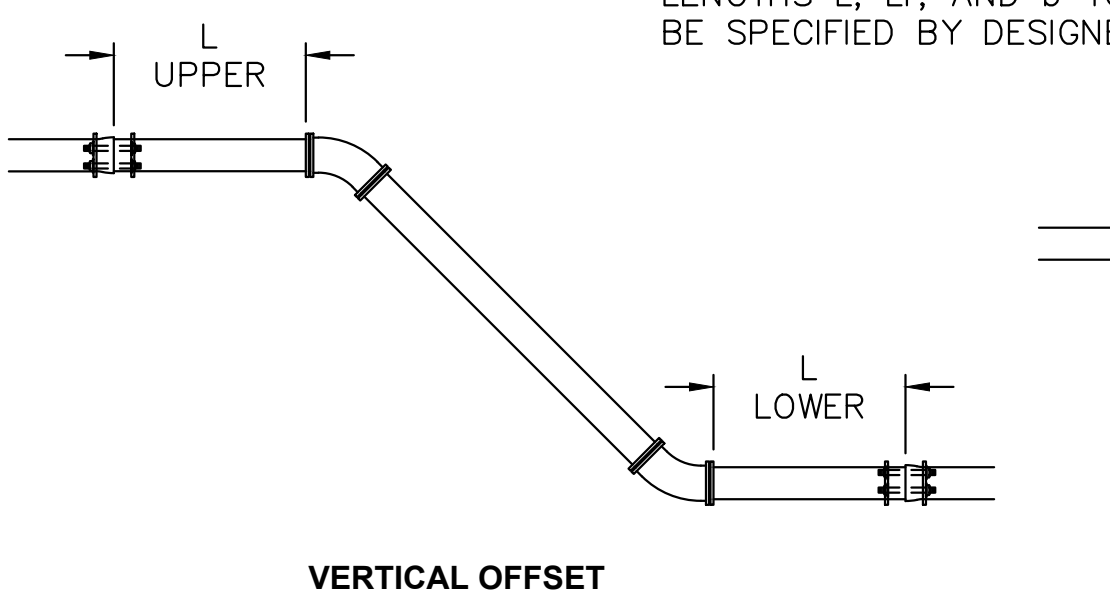
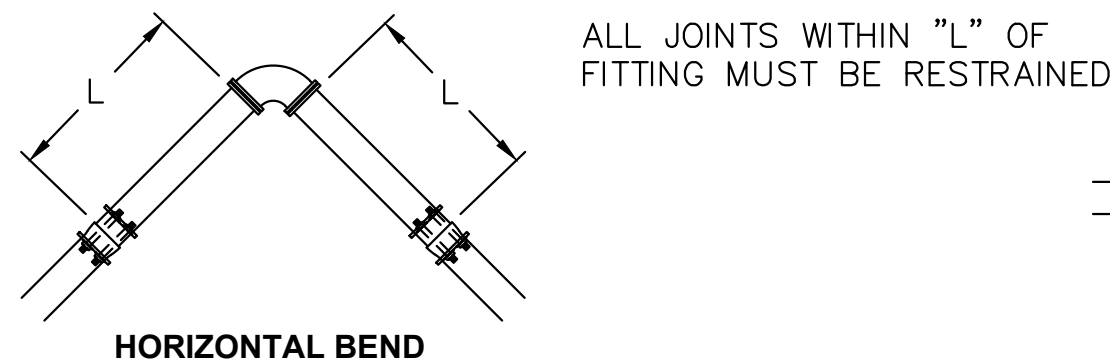


- NOTE :
1. TOP BEND TO HAVE RETAINING GLANDS AND STRAPPING.

TYPICAL OFFSET FOR HYDRANTS

WT-HYD-OFFSET 32

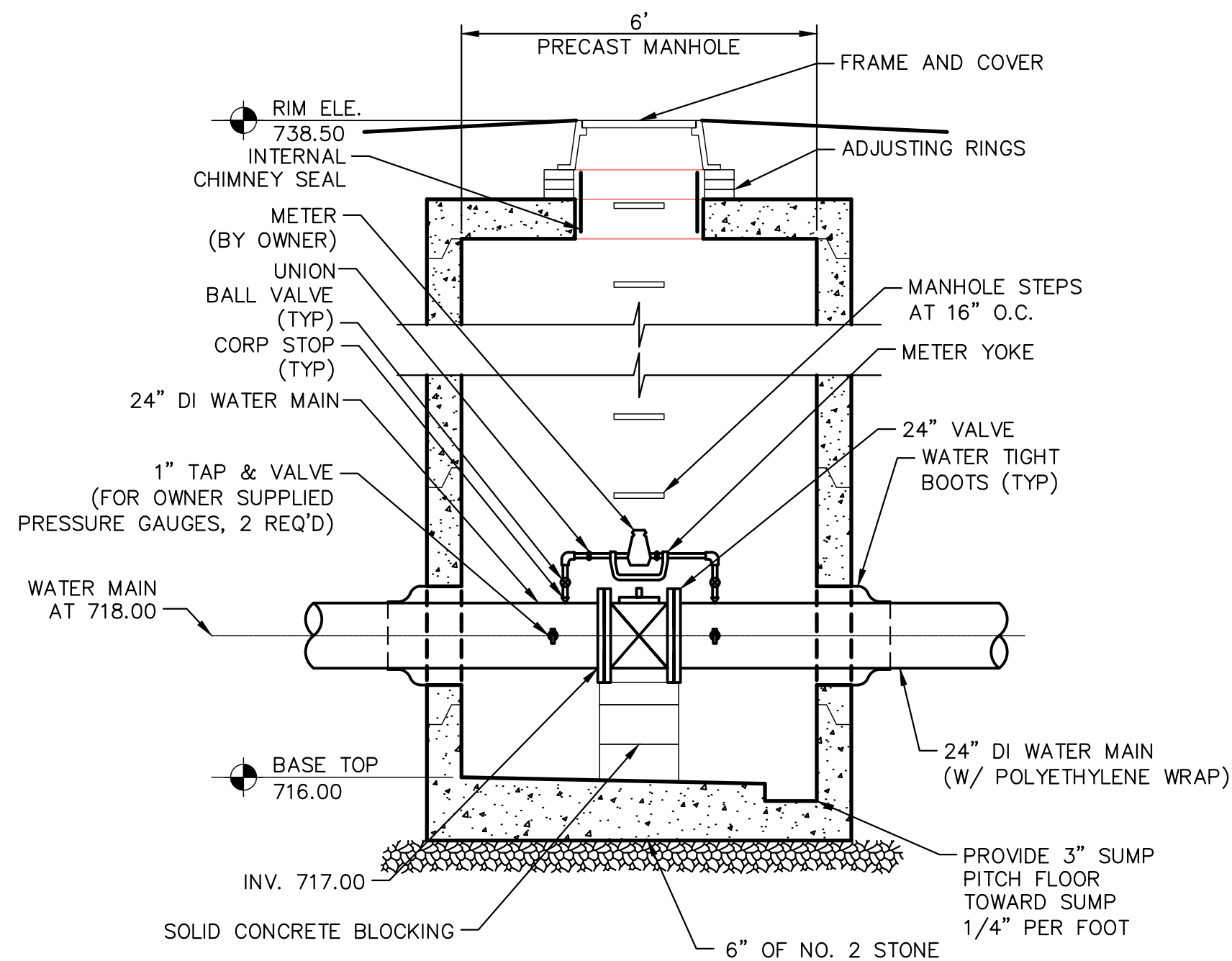
NO SCALE



JOINT RESTRAINT DETAIL

WT-BR-03 4

NO SCALE



VALVE VAULT MANHOLE-SECTION

WT-Vault

24

NO SCALE

JOINT RESTRAINT DISTANCE (FT) PER FITTING

FITTING TYPE	4"	6"	8"	12"	16"	20"	24"	30"	36"
Horizontal Bend - 45°	10	10	12	16	20	26	31	37	44
Horizontal Bend - 11.25°	5	5	5	5	8	8	8	10	12
Horizontal Bend - 22.5°	8	8	8	10	10	15	16	20	23
Horizontal Bend - 90°	16	20	25	32	40	52	63	77	90

*Restrained LARGER sized pipe

Reducer - Diameter x 4"	-	25	50	60	80	130	164	204	244
Reducer - Diameter x 6"	-	-	25	60	100	125	158	199	240
Reducer - Diameter x 8"	-	-	-	50	80	120	149	192	234
Reducer - Diameter x 12"	-	-	-	-	50	100	126	173	219
Reducer - Diameter x 16"	-	-	-	-	-	50	93	147	197
Reducer - Diameter x 20"	-	-	-	-	-	-	51	114	169
Reducer - Diameter x 24"	-	-	-	-	-	-	-	73	136
Reducer - Diameter x 30"	-	-	-	-	-	-	-	-	75

Dead End	40	40	60	90	120	150	170	209	248
Tee or Cross - Run	10	10	10	20	30	40	50	60	70
Tee - 4" Branch	8	6	6	6	6	6	6	6	6
Tee - 6" Branch	-	8	6	6	6	6	6	6	6
Tee - 8" Branch	-	-	10	6	6	6	6	6	6
Tee - 12" Branch	-	-	-	12	6	6	6	6	6
Tee - 16" Branch	-	-	-	-	30	10	6	6	6
Tee - 20" Branch	-	-	-	-	-	50	36	22	8
Tee - 24" Branch	-	-	-	-	-	-	62	50	38
Tee - 30" Branch	-	-	-	-	-	-	95	86	76
Tee - 36" Branch	-	-	-	-	-	-	126	118	110

Vertical Bend - 45° - Upper	12	20	26	40	50	60	73	89	105
Vertical Bend - 45° - Lower	5	5	6	10	12	14	17	20	24
Vertical Bend - 22.5° - Upper	8	10	14	18	24	28	35	43	51
Vertical Bend - 22.5° - Lower	4	5	5	8	8	8	9	11	13
Vertical Bend - 11.25° - Upper	6	6	8	10	12	14	18	21	25
Vertical Bend - 11.25° - Lower	4	4	4	4	4	6	6	6	8

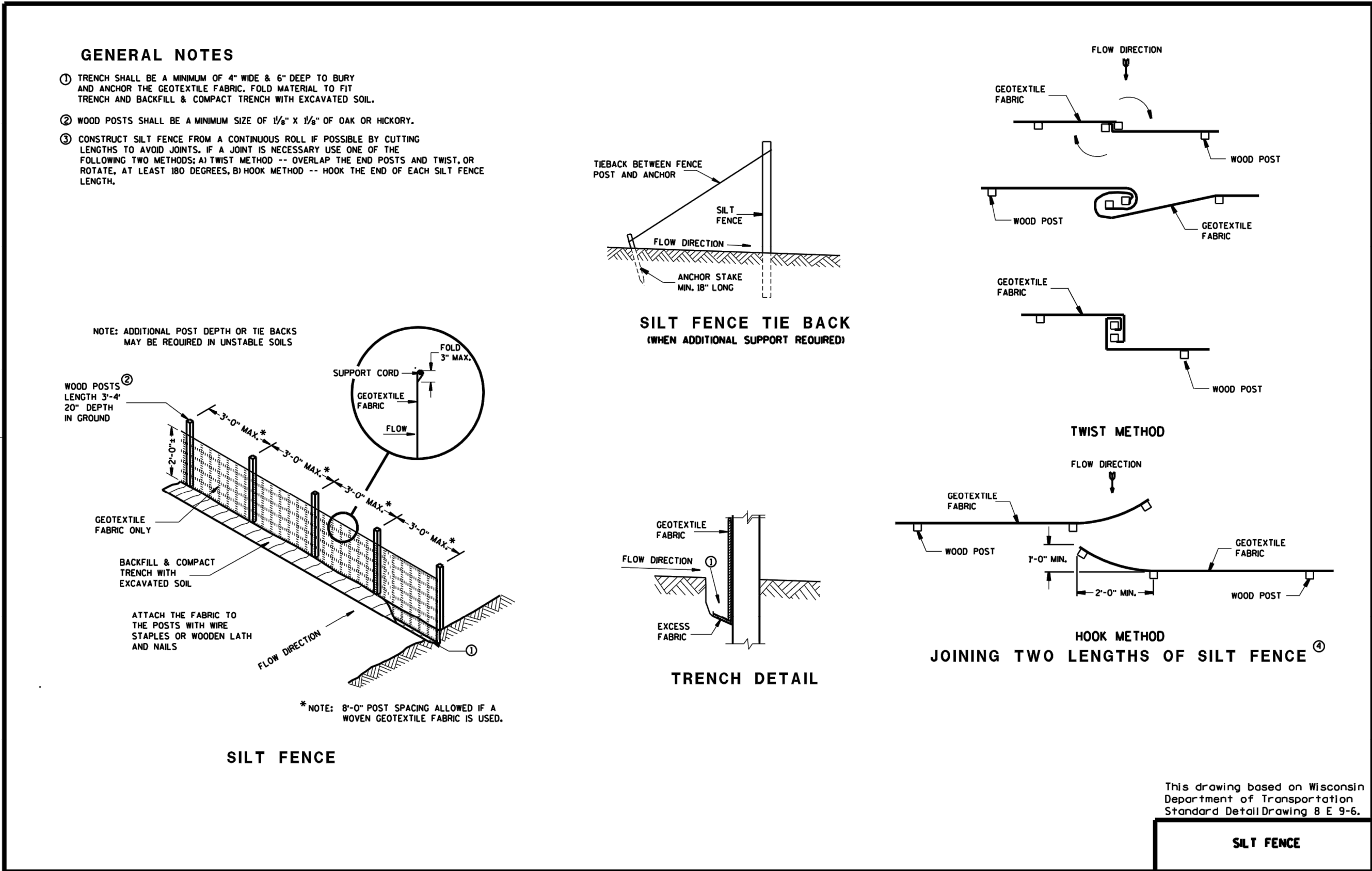
*Un-restrained sleeve fittings not allowed within the above distances

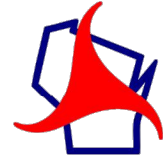
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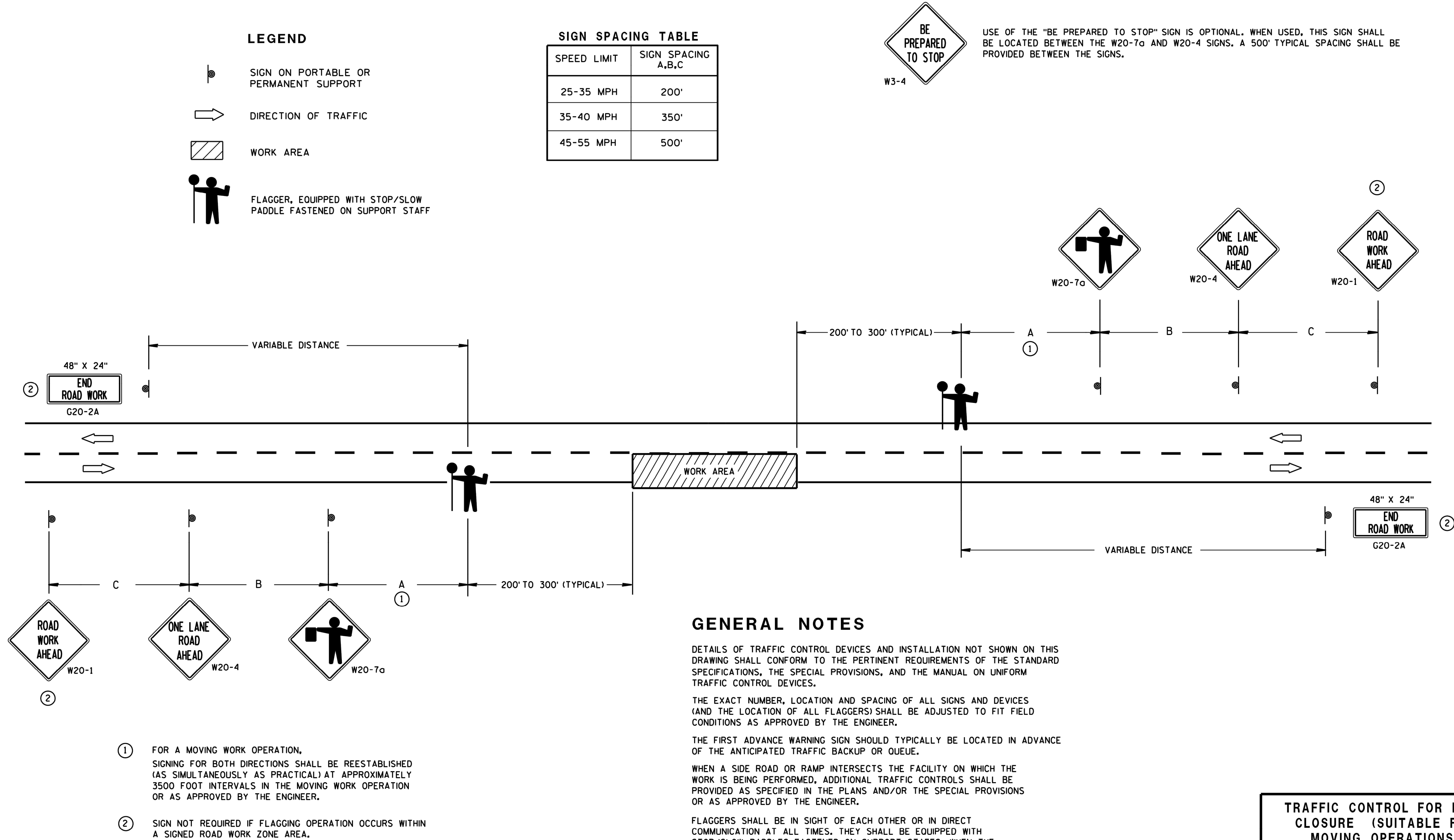
BRAUN ROAD TRANSMISSION MAIN
CONSTRUCTION DETAILS
RACINE WATER & WASTEWATER UTILITY
RACINE COUNTY, WISCONSIN

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DRAFTED BY: AK1
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DATE: MAY 2018
FILE NO.
8022-10021.200
SHEET NO.
DT-01R-1





15C12: Traffic Control for Lane Closure (Suitable for Moving Operations)



GENERAL NOTES

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
8/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

7	.	.
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BRAUN ROAD TRANSMISSION MAIN

CONSTRUCTION DETAILS

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RACINE COUNTY, WISCONSIN

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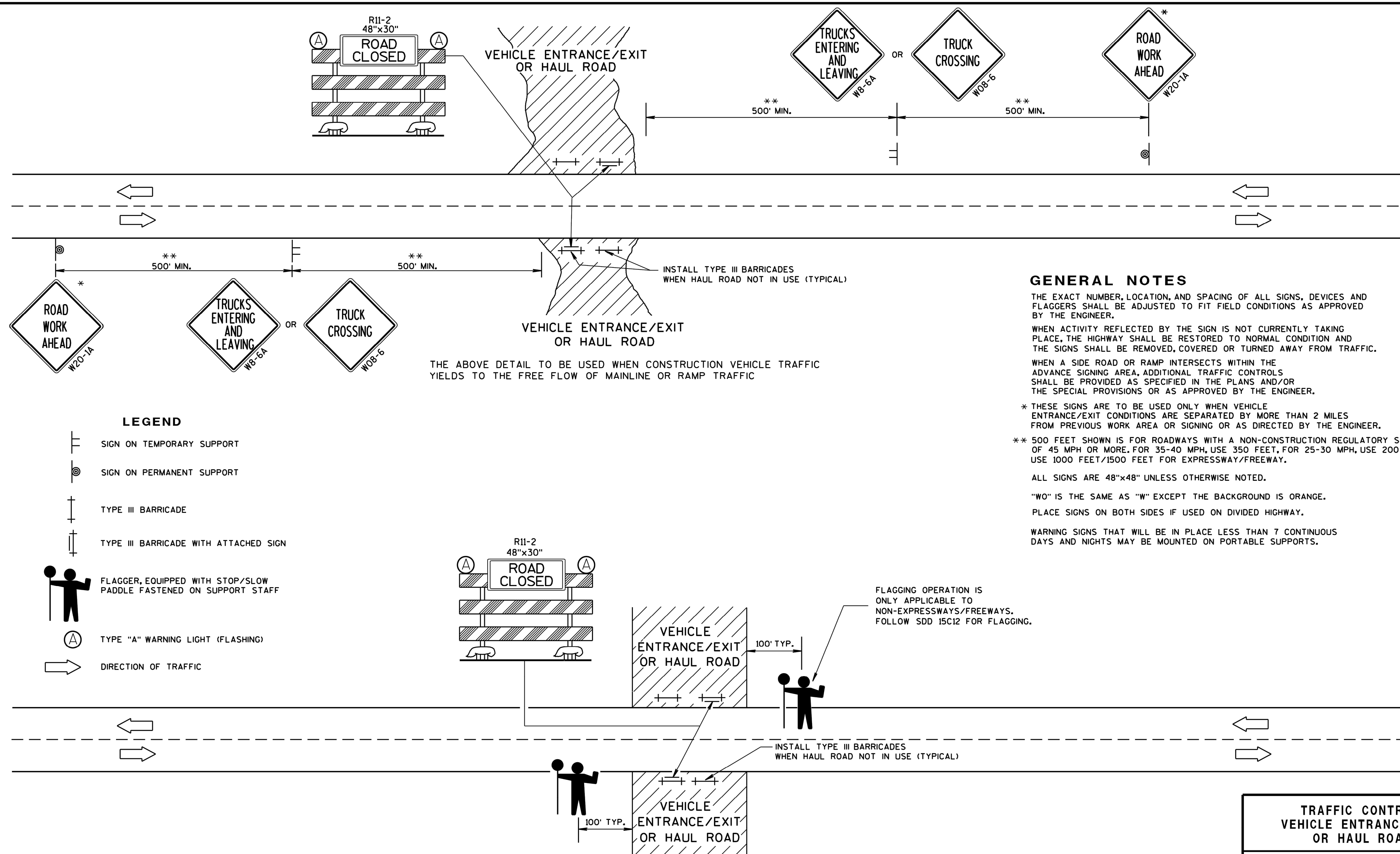
CHECKED BY: KRW
DATE: MAY 2018

SHEET NO.
DT-04

www.ruekertmielke.com



15D29: Traffic Control, Vehicle Entrance/Exit or Haul Road



GENERAL NOTES

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

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE
ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS
SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR
THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE
ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES
FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET, FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

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

FLAGGING OPERATION IS
ONLY APPLICABLE TO
NON-EXPRESSWAYS/FREEWAYS.
FOLLOW SDD 15C12 FOR FLAGGING.

THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY
REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH
DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL,
VEHICLE ENTRANCE/EXIT
OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Andrew Heidtke
WORK ZONE ENGINEER