

# CONSTRUCTION PLANS FOR DRESDEN STREET - WATER AND SEWER REPLACEMENT, & STREET IMPROVEMENTS

VILLAGE OF KALKASKA, KALKASKA COUNTY, MICHIGAN



PROJECT LOCATION

VICINITY MAP  
SCALE

### OWNER

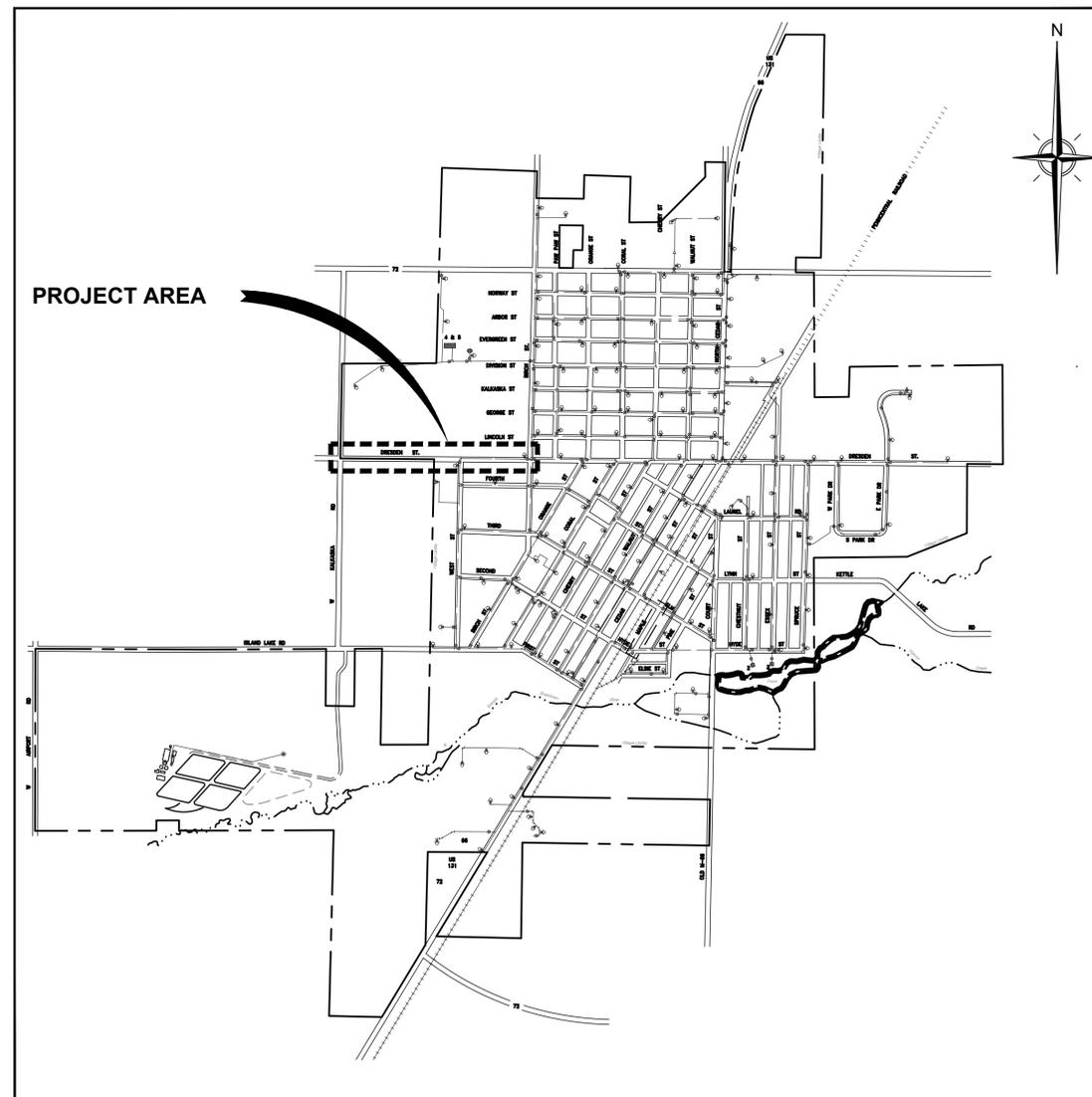
VILLAGE OF KALKASKA  
201 MAIN ST.  
200 HYDE STREET, KALKASKA, MI 49646  
AARON POPA, VILLAGE MANAGER  
CONTACT: 231-258-9191

### ENGINEER

GOSLING CZUBAK ENGINEERING SCIENCES, INC.  
1280 BUSINESS PARK DRIVE  
TRAVERSE CITY, MICHIGAN, 49686-8607  
231.946.9191 - 800.968.1062  
www.goslingczubak.com info@goslingczubak.com

### UTILITY CONTACTS

NAME OF OWNER	TYPE OF UTILITY
DTE ENERGY Mr. Matthew Logan 1250 Michcom Lane, SW P.O. Box 279 Kalkaska, MI 49646 231.492.7479	GAS
CONSUMER'S ENERGY Ms. Megan Cogswell 1125 W. Green St. Hastings, MI 49058 269-948-3503	ELECTRIC
CHARTER COMMUNICATIONS Mr. Steve Thinel 408 W. 4th St. Gaylord, MI 49735 231.932.8117	CABLE TV
AT&T Mr. Ron Ouellette 1151 US 31 N Petoskey, MI 49770 231.349.8013	TELEPHONE
VILLAGE OF KALKASKA Mr. Loyd Harrell 200 Hyde St. Kalkaska, MI 49646 231.258.9191	WATER & SEWER



LOCATION MAP  
NOT TO SCALE

### SHEET NUMBER

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

### SHEET LIST

SHEET NUMBER	SHEET TITLE
1	COVER
2	GENERAL AND SESC NOTES
3	TYPICAL CROSS-SECTION AND STREET DETAILS
4	STREET - STA. 0+00 TO STA. 16+50
5	STREET - STA. 16+50 TO STA. 27+50
6	WATER AND SEWER - STA. 16+50 TO STA. 22+50
7	WATER AND SEWER - STA. 22+00 TO STA. 27+50
8	SEWER DETAILS
9	WATERMAIN DETAILS



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ORIGINAL SHEET SIZE IS 22x34 - HALF SCALE SHEET IS 11x17

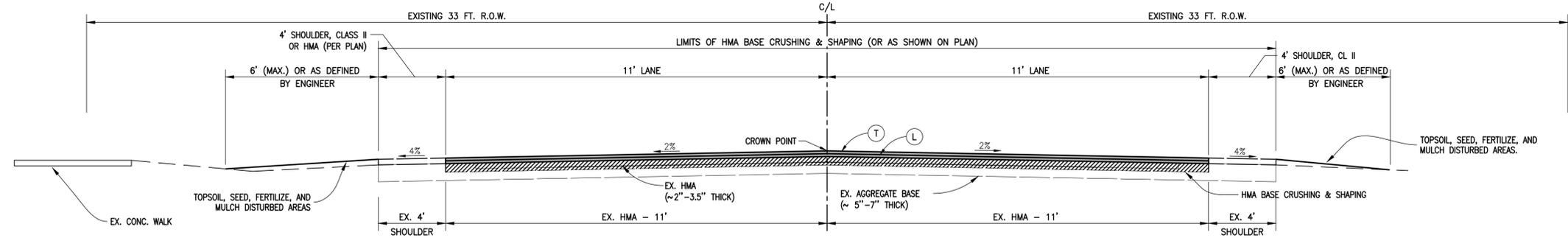
DRESDEN ST - WTR AND SWR REPLACE & ST IMP

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Issue Date  
2/23/26  
Project No.  
202222002  
Sheet  
1





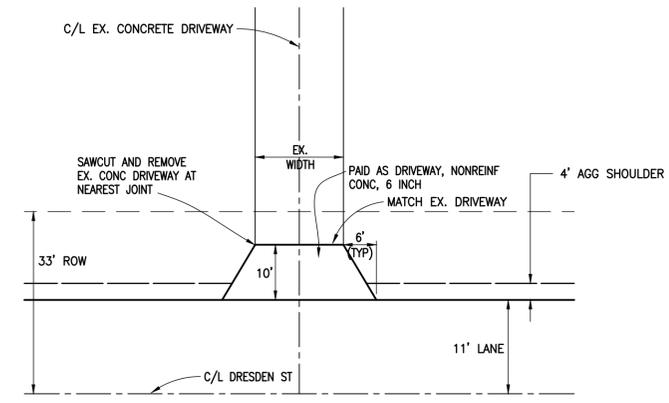
**TYPICAL CROSS SECTION**

NOT TO SCALE  
 STATIONS TO APPLY: 0+89 (POB) TO 36+10 (POE)

NOTE:  
 FOR WORK ON THE EXISTING LANES, CRUSH AND SHAPE ONE SIDE OF THE PAVEMENT WHILE MAINTAINING TRAFFIC WITH TRAFFIC REGULATOR CONTROL. CRUSH AND SHAPE THE REMAINING SIDE OF THE PAVEMENT WHILE MAINTAINING TRAFFIC WITH TRAFFIC REGULATOR CONTROL. WHERE NECESSARY, PLACE ADDITIONAL AGGREGATE OR EXCESS CRUSHED MATERIAL TO PROPOSED CROSS SECTION. MIX, SHAPE, AND COMPACT AS REQUIRED IN THE 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO USE EXCESS CRUSHED MATERIAL TO CONSTRUCT THE PROPOSED CROSS SECTION, INCLUDING SHOULDER AREAS AND APPROACHES. COSTS FOR LOADING, HAULING, PLACING AND COMPACTING EXCESS CRUSHED MATERIAL THROUGHOUT THE PROJECT LIMITS WILL BE INCLUDED IN THE ITEM OF HMA BASE CRUSHING AND SHAPING AND WILL NOT BE PAID FOR SEPARATELY. DISPOSAL OF SURPLUS OR UNSUITABLE EXCESS CRUSHED MATERIAL WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE ITEM OF HMA CRUSHING AND SHAPING. ALL CRUSHED MATERIAL SHALL BE SHAPED AND SURFACED WITH LEVELING COURSE PRIOR TO WEEKENDS OR HOLIDAYS.

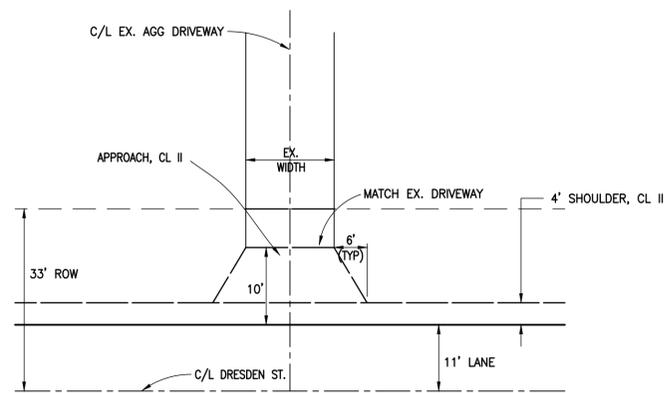
**HMA APPLICATION ESTIMATE**

IDENT. NO.	ITEM	RATE PER SYD	PG-GRADE	REMARKS	AWI (MIN.)
L	HMA, 4EL	165 LB	58-28	LEVELING COURSE	N/A
T	HMA, 4EL	165 LB	58-28	TOP COURSE	220
BA	HMA APPROACHES	330 LB	58-28	2 COURSES, PAID AS HMA, 4EL	N/A
	BOND COAT	0.05-0.15 GAL		FOR INFORMATION ONLY	



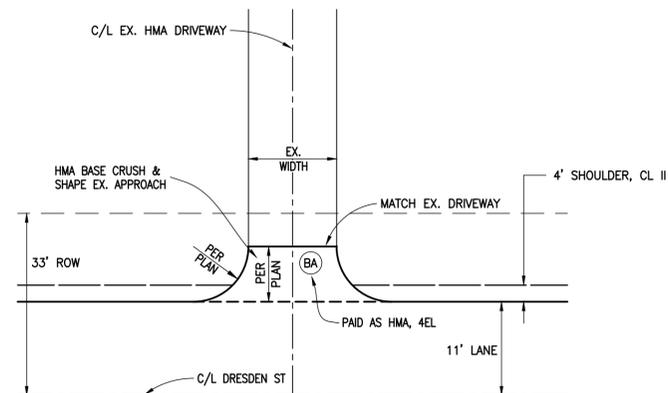
**CONCRETE DRIVEWAY APPROACH DETAIL**

NOT TO SCALE



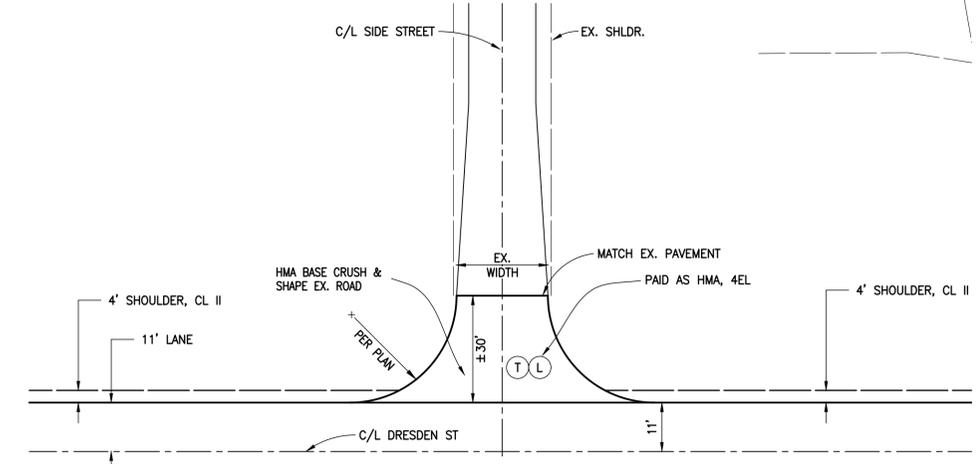
**AGGREGATE DRIVEWAY APPROACH DETAIL**

NOT TO SCALE



**HMA DRIVEWAY APPROACH DETAIL**

NOT TO SCALE



**TYPICAL INTERSECTION DETAIL**

NOT TO SCALE

**WATERMAIN DETAILS**  
**DRESDEN ST - WTR AND SWR REPLACE & ST IMP**  
**VILLAGE OF KALKASKA**

Date Issued: 2/23/26  
 Date Surveyed: MARCH 2022  
 Designed By: MAG  
 Drawn By: MAG  
 Checked By: MJH  
 Scale: AS NOTED  
 Original sheet size is 22x34

Location:  
 SECTION 17  
 T27 N, R07W  
 VILLAGE OF KALKASKA  
 KALKASKA COUNTY  
 MICHIGAN

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 2022222002

Sheet:  
**3**

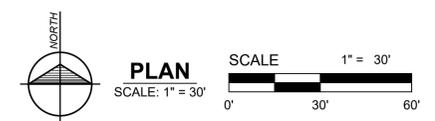
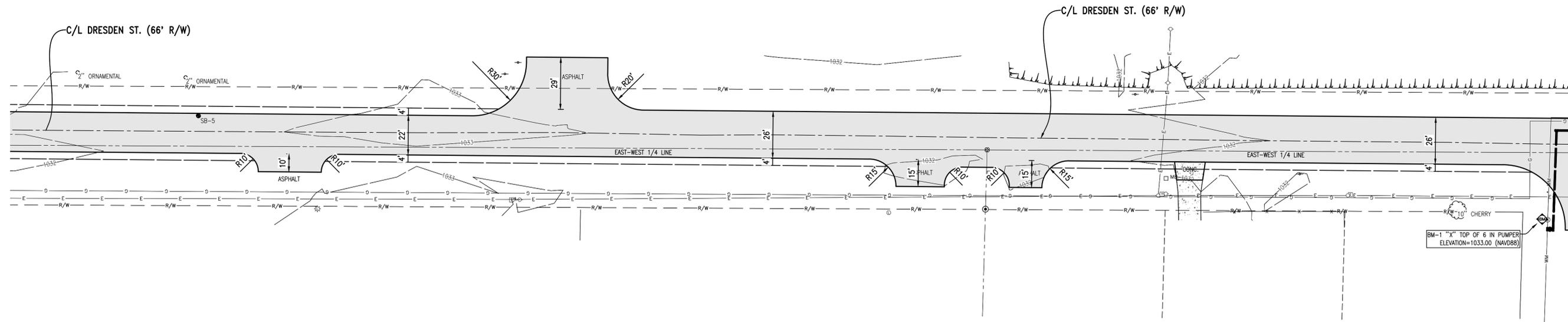
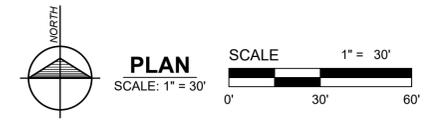
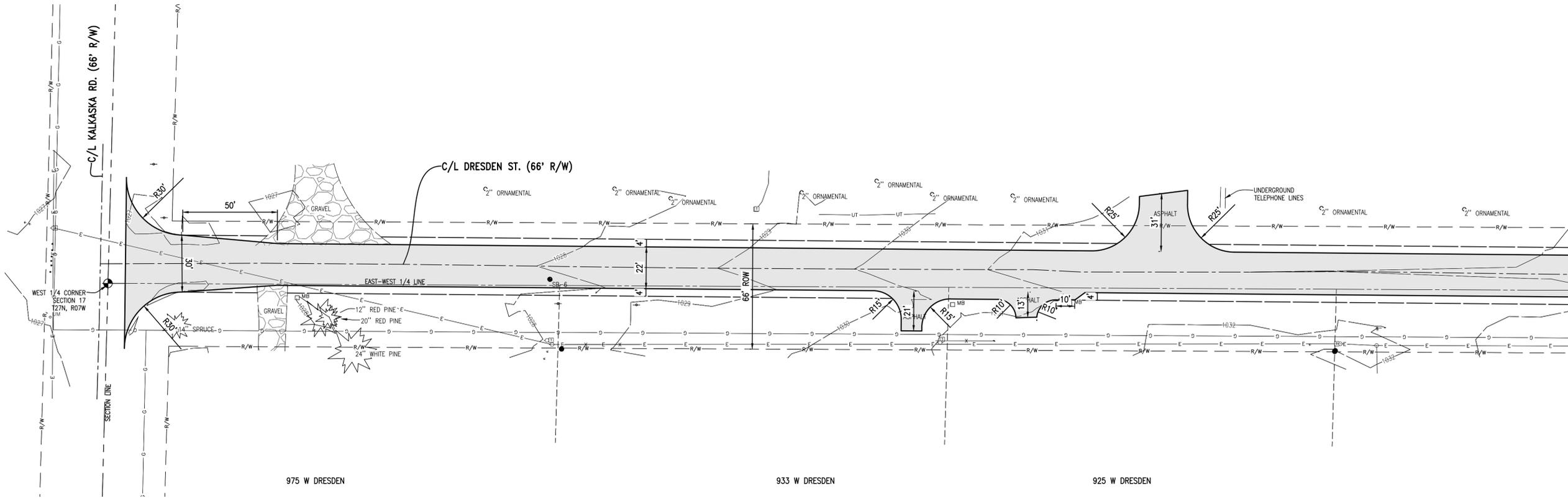
No.	Date	Revision	By
1	02/22/22	SUBMITTED FOR ACT 399 PERMITTING	TNK

**STREET - STA. 0+00 TO STA. 16+50  
 DRESDEN ST - WTR AND SWR REPLACE & ST IMP  
 VILLAGE OF KALKASKA**

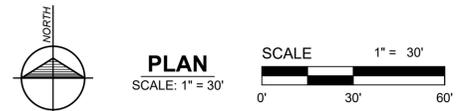
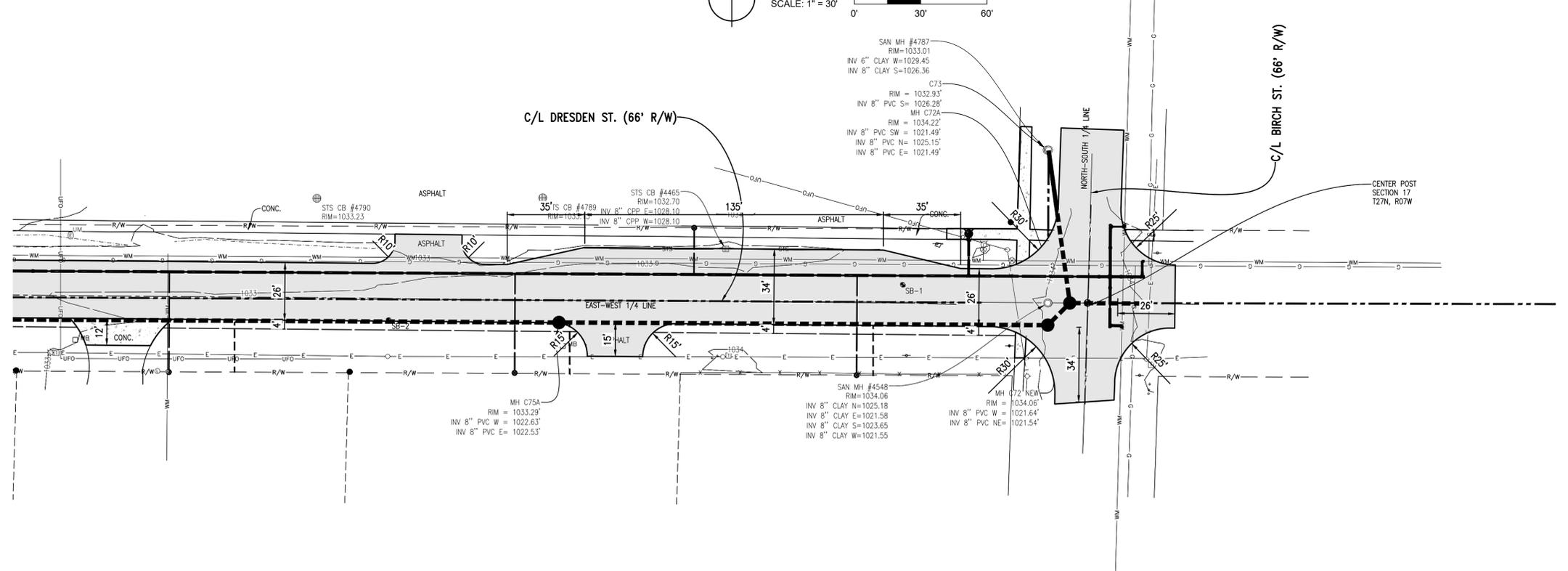
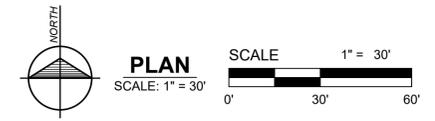
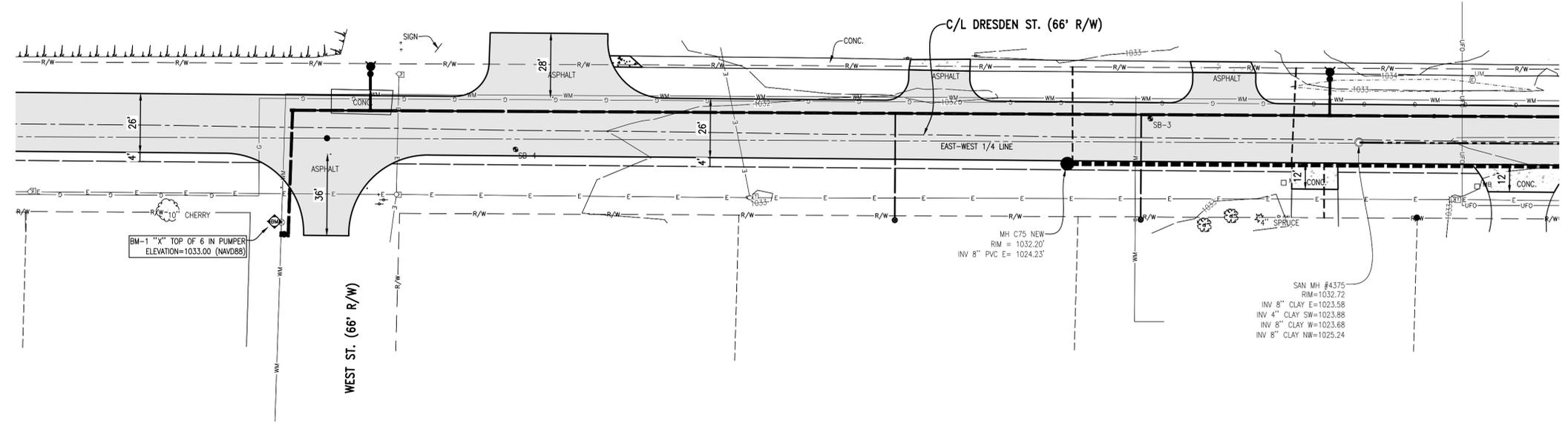
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**PROFILE**  
 HORIZONTAL SCALE: 1" = 30'  
 VERTICAL SCALE: 1" = 3'

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**STREET - STA. 0+00 TO STA. 16+50  
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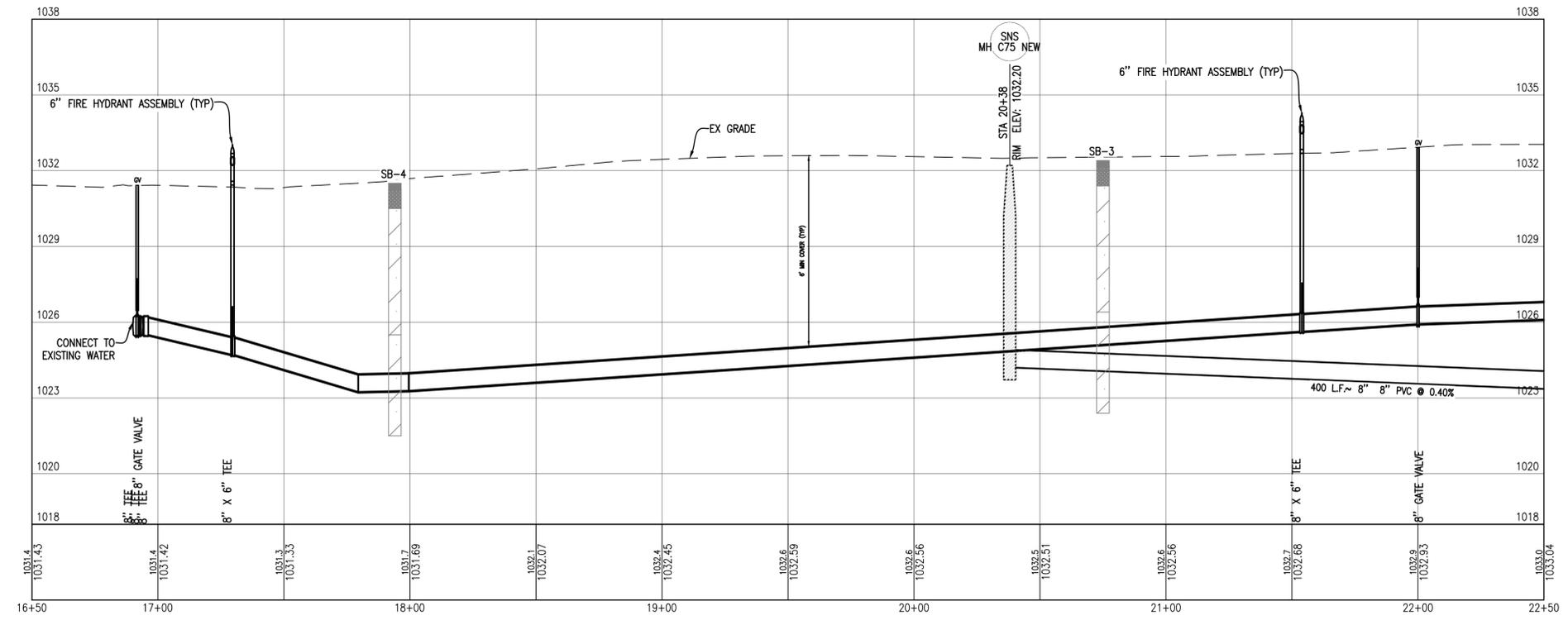
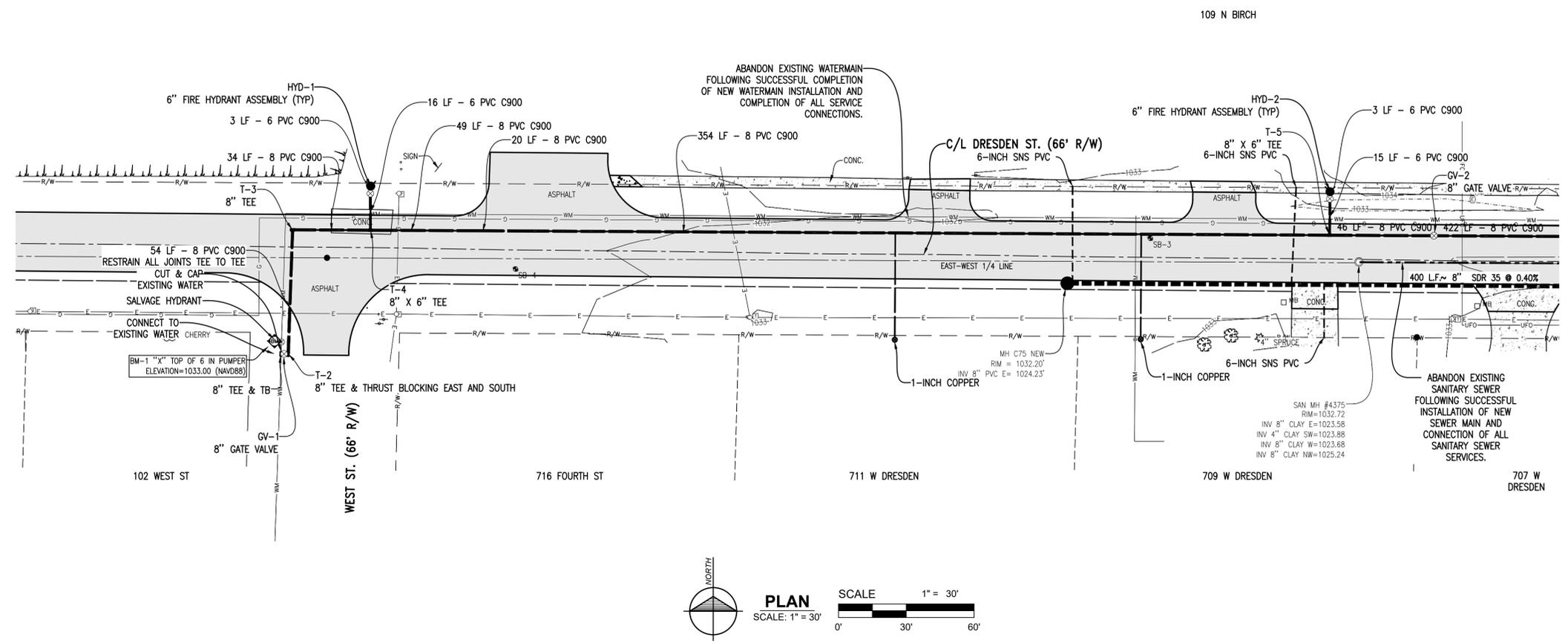
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**WATER AND SEWER - STA. 16+50 TO STA. 22+50  
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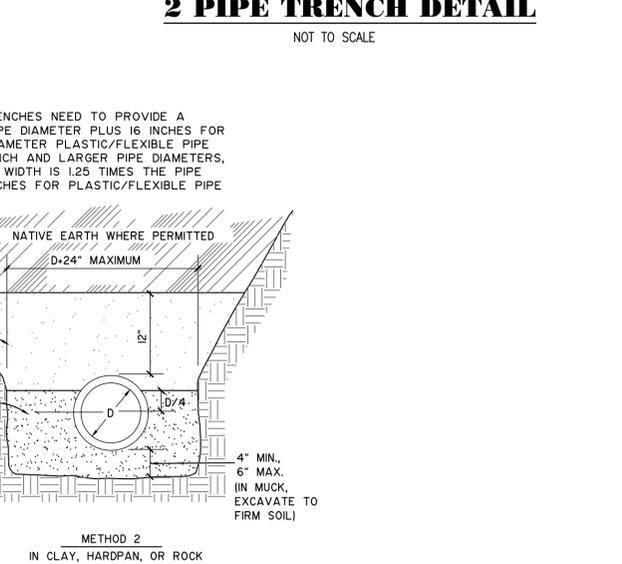
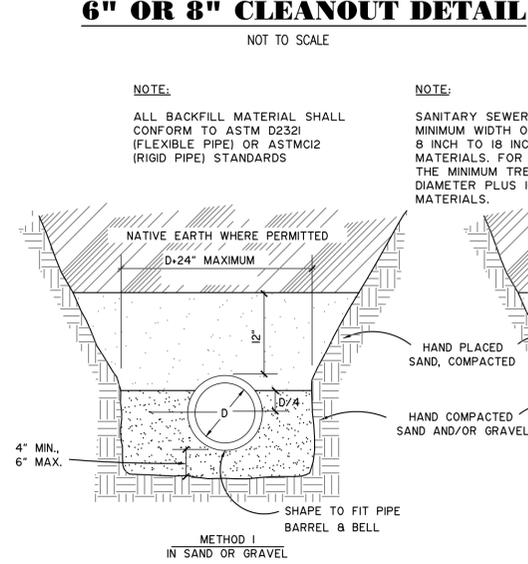
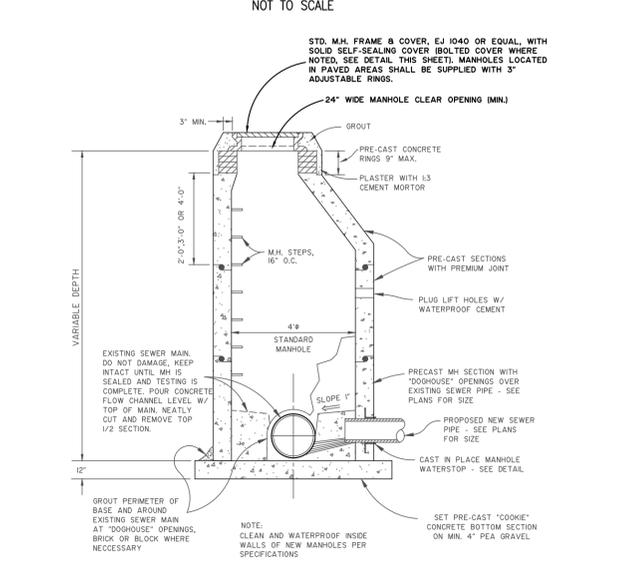
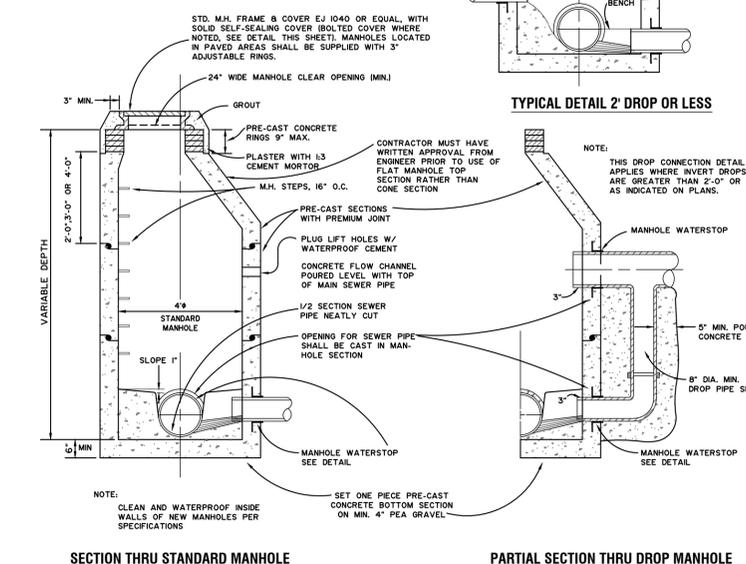
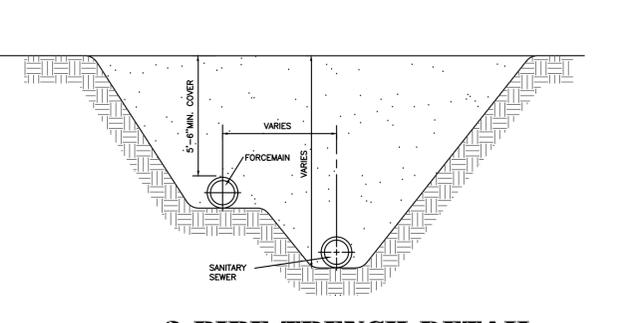
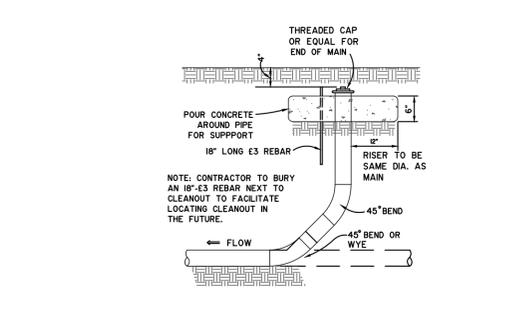
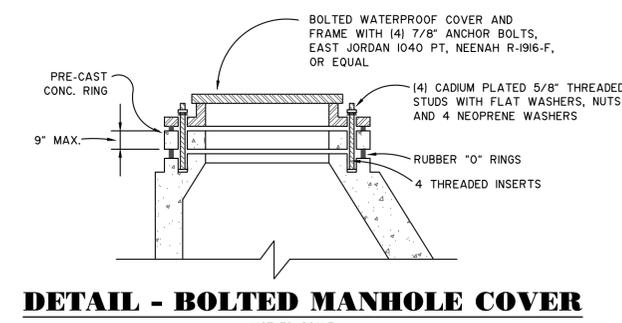
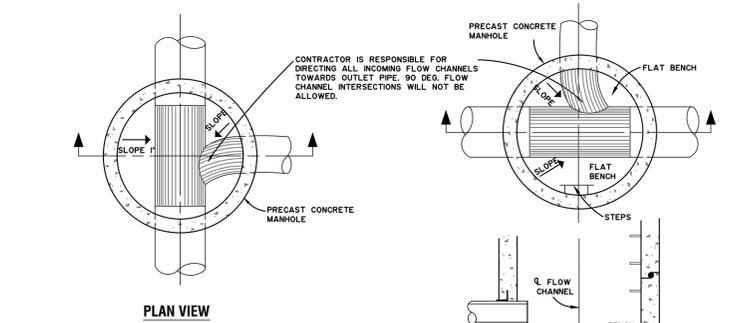
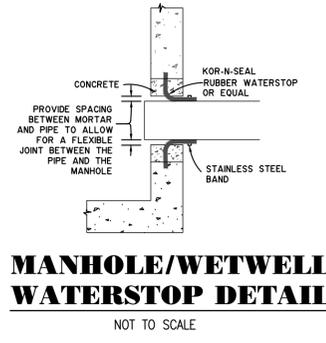
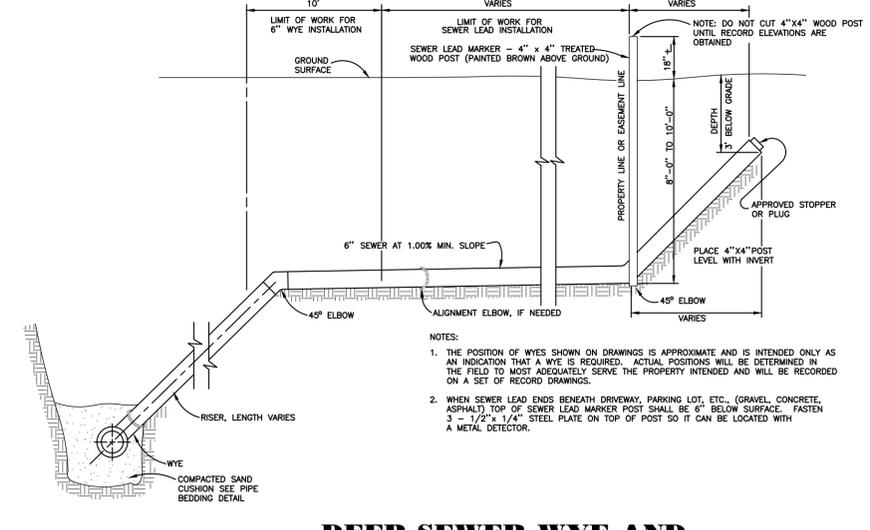
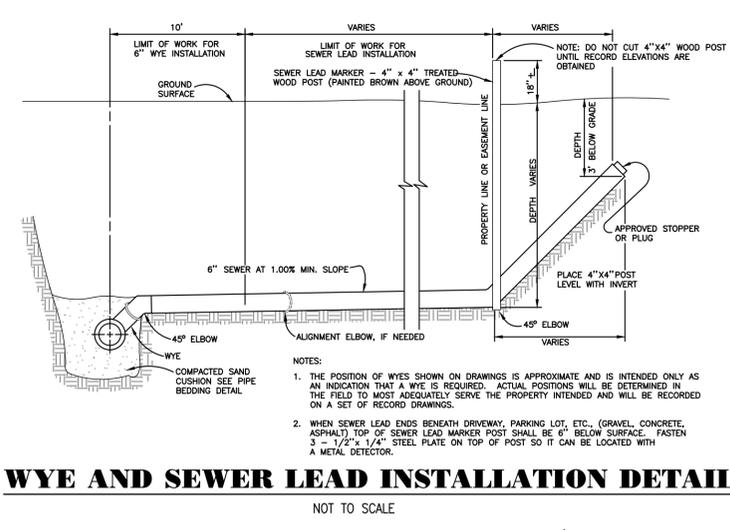
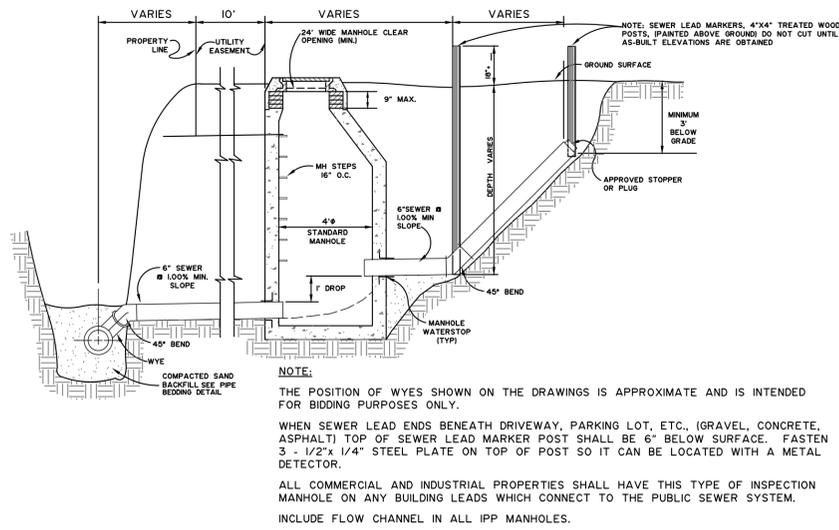
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CIVIL ENGINEERING SURVEYING  
ENVIRONMENTAL SERVICES  
GEO TECHNICAL CONSTRUCTION SERVICES  
DRILLING  
LANDSCAPE ARCHITECTURE

1	02/22/22	SUBMITTED FOR ACT 269 PERMITTING	TNK	By
				Revision

**SEWER DETAILS  
DRESDEN ST - WTR AND SWR REPLACE & ST IMP  
VILLAGE OF KALKASKA**

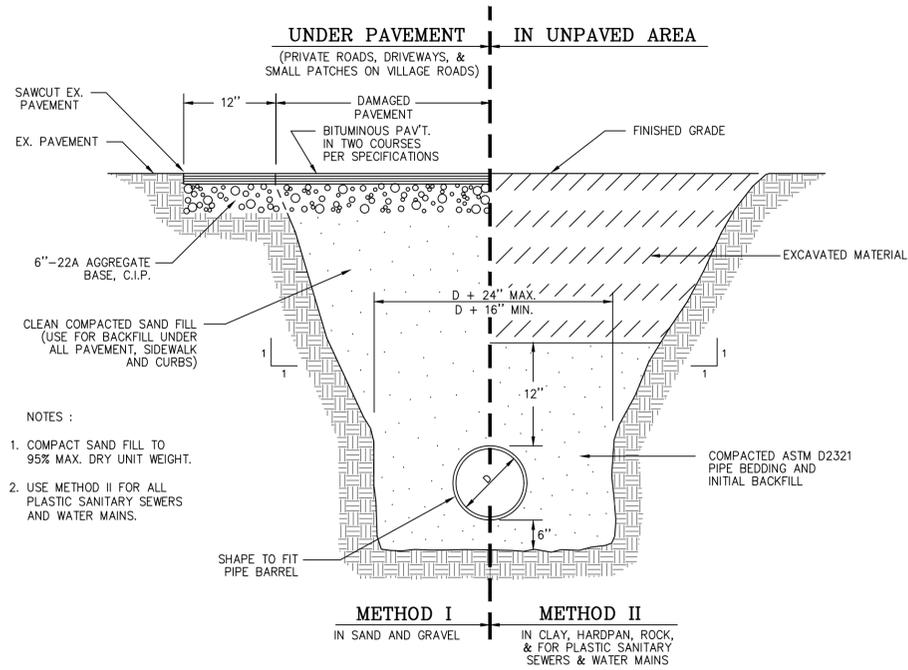
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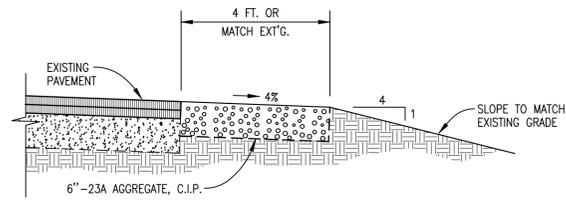
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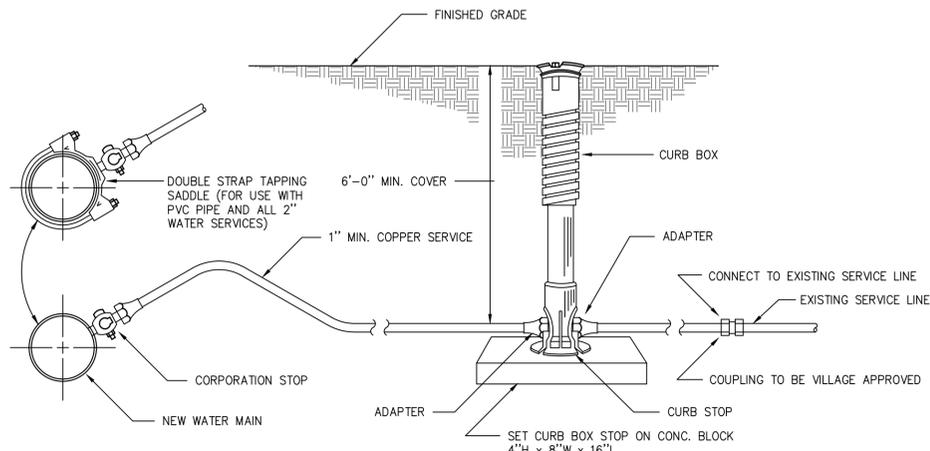
**TRENCH DETAIL**

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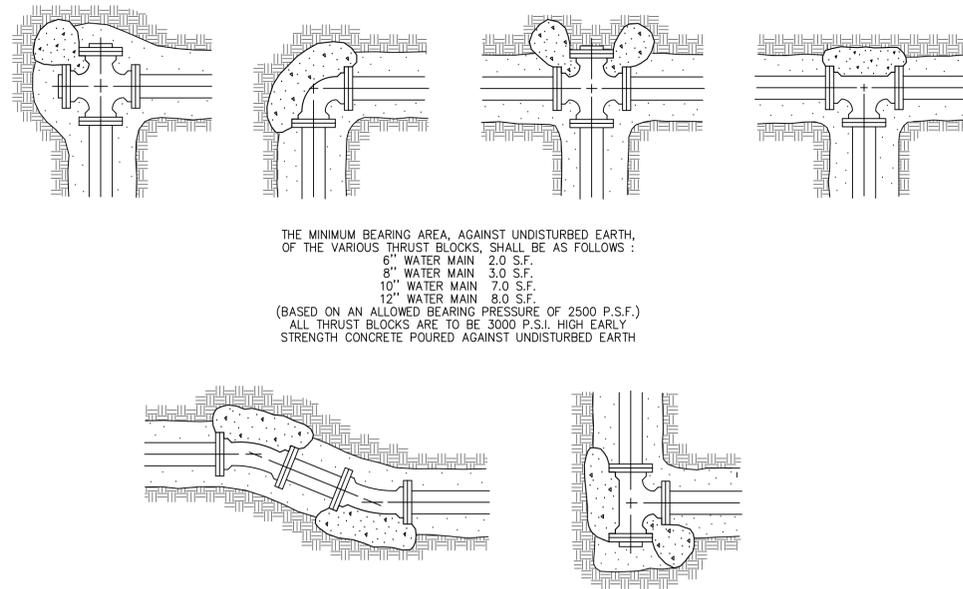
**ROAD SHOULDER RESTORATION**

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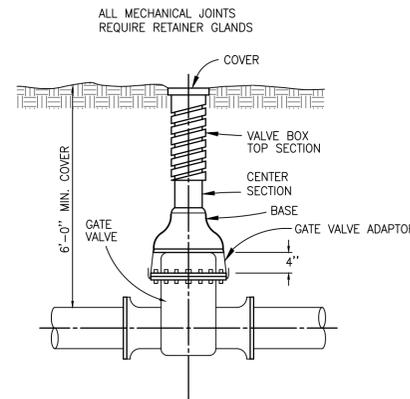
**WATER MAIN SERVICE CONNECTIONS**

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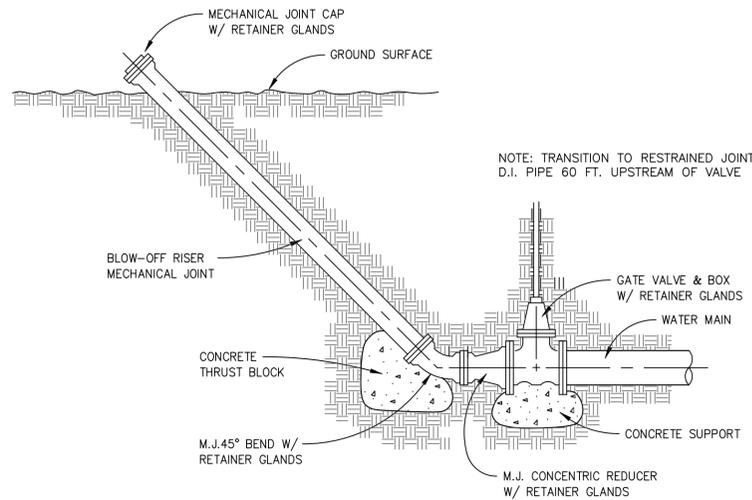
**TYPICAL THRUST BLOCK DETAILS**

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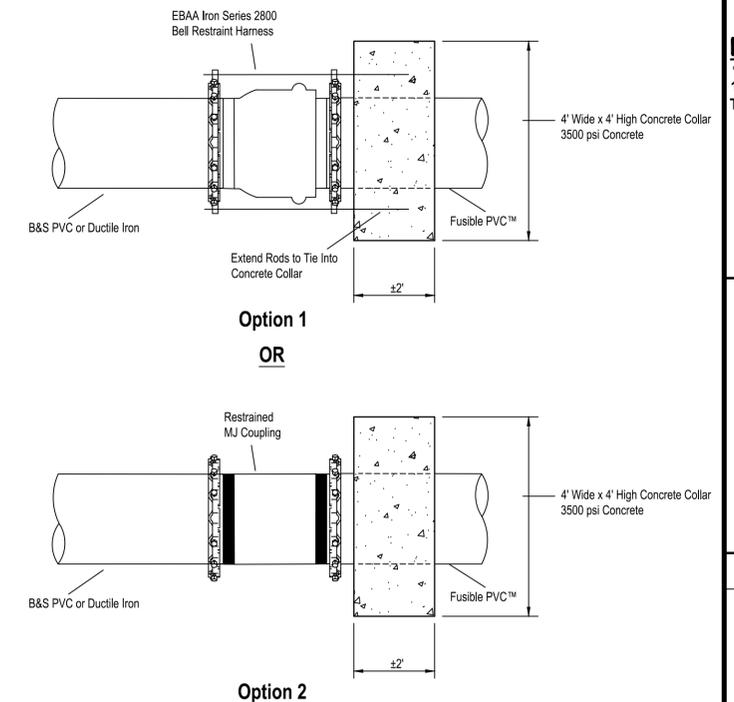
**VALVE BOX DETAIL**

NOT TO SCALE



**BLOW-OFF DETAIL**

NOT TO SCALE

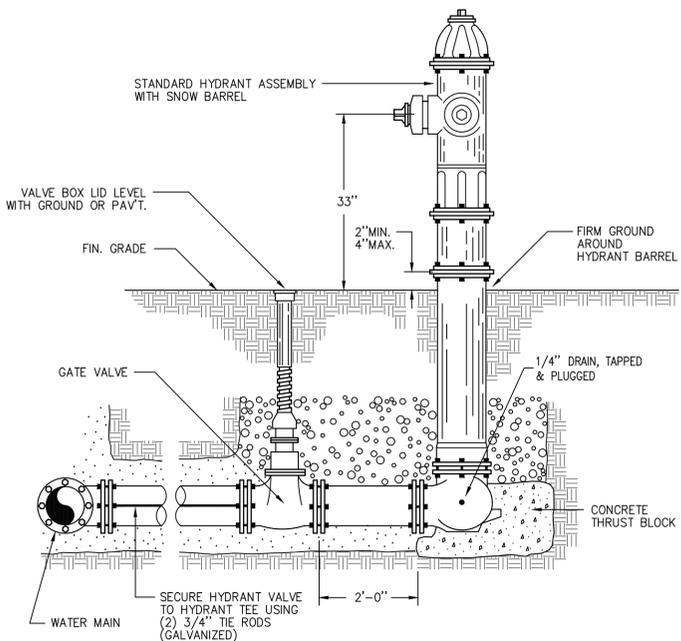


**FUSIBLE PVC CONNECTIONS**

NOT TO SCALE

**GENERAL NOTES:**

1. ALL DISTURBED AREAS ARE TO BE RESTORED TO EQUAL OR BETTER CONDITION.
2. MAINTAIN 18" VERTICAL & 10" HORIZONTAL SEPARATION BETWEEN WATERMANS & SANITARY AND/OR STORM SEWERS.
3. WATERMAIN CROSSING SANITARY SEWER LEAD SHALL MAINTAIN 18" SEPARATION & MINIMUM 6" COVER ON WATERMAIN. CONTRACTOR SHALL EITHER DEFLECT WATERMAIN TO MAINTAIN SEPARATION OR RELOCATE SEWER LEAD PER DETAIL. ALL INCIDENTAL.
4. UTILITIES & RIGHT OF WAY SHOWN AS APPROXIMATE, BASED ON EXISTING PLANS, UTILITY COMPANY PLANS & PLATS.



**DETAIL-HYDRANT INSTALLATION**

NOT TO SCALE

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**WATERMAIN DETAILS  
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