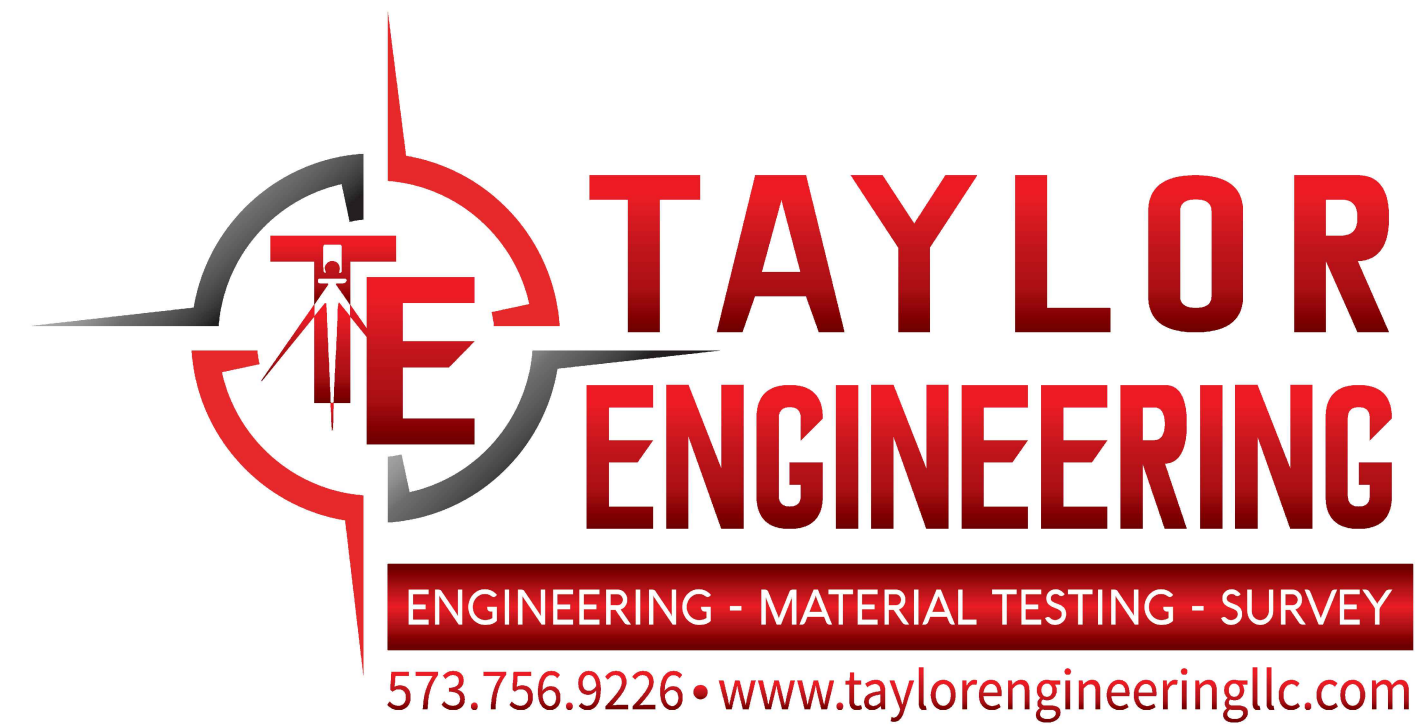


# WATER & SEWER IMPROVEMENTS Farmington Correctional Center FARMINGTON, MISSOURI

---



OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR  
DEPARTMENT OF CORRECTIONS

PROJECT  
MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER: TAYLOR ENGINEERING, LLC  
109 EAST COLUMBIA STREET,  
FARMINGTON, MISSOURI, 63640

PROJECT NUMBER: C2318-02

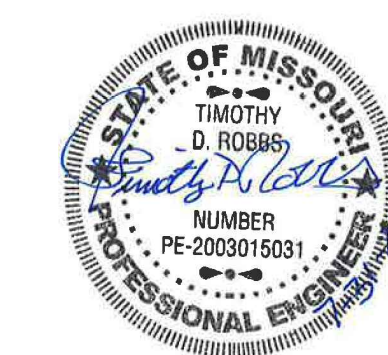
SITE NUMBER: 7008  
FACILITY NUMBER: 9327008150

SHEET NUMBER:

**G-1**

SHEET 1 OF 16  
DATE: 7/31/2024





NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2010019542  
EXPIRATION DATE: 12/31/25

P.O. BOX 674 109 E COLUMBIA  
FARMINGTON, MISSOURI 63640  
P 573.756.9226  
F 573.756.9230  
www.taylorengineeringllc.com



Designer: 4 CADD Support, LLC  
7756 Marvin Chapel Rd  
Boone Terre, MO 63628  
(573) 701-3669  
bmattingly@taylorcad.com

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

WATER & SEWER  
IMPROVEMENTS  
1430 DOUBET ROAD  
FARMINGTON, MO 63640

PROJECT # C2318-02  
SITE # 7008  
FACILITY # 9327008150

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

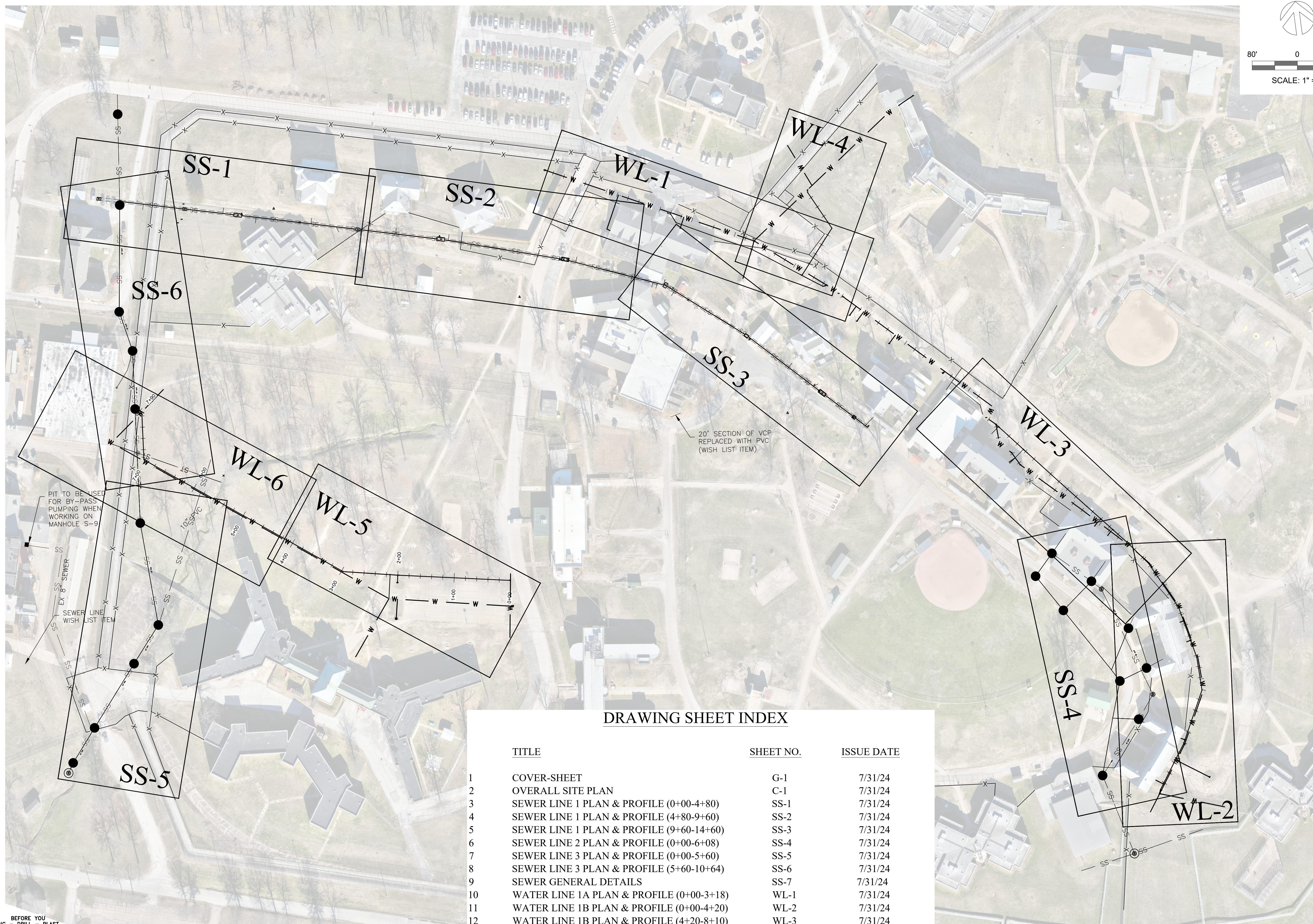
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DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
OVERALL SITE PLAN

SHEET NUMBER:

C-1

SHEET 2 OF 16  
DATE: 7/31/2024



DRAWING SHEET INDEX

TITLE	SHEET NO.	ISSUE DATE
1 COVER-SHEET	G-1	7/31/24
2 OVERALL SITE PLAN	C-1	7/31/24
3 SEWER LINE 1 PLAN & PROFILE (0+00-4+80)	SS-1	7/31/24
4 SEWER LINE 1 PLAN & PROFILE (4+80-9+60)	SS-2	7/31/24
5 SEWER LINE 1 PLAN & PROFILE (9+60-14+60)	SS-3	7/31/24
6 SEWER LINE 2 PLAN & PROFILE (0+00-6+08)	SS-4	7/31/24
7 SEWER LINE 3 PLAN & PROFILE (0+00-5+60)	SS-5	7/31/24
8 SEWER LINE 3 PLAN & PROFILE (5+60-10+64)	SS-6	7/31/24
9 SEWER GENERAL DETAILS	SS-7	7/31/24
10 WATER LINE 1A PLAN & PROFILE (0+00-3+18)	WL-1	7/31/24
11 WATER LINE 1B PLAN & PROFILE (0+00-4+20)	WL-2	7/31/24
12 WATER LINE 1B PLAN & PROFILE (4+20-8+10)	WL-3	7/31/24
13 WATER LINE 2 PLAN & PROFILE (0+00-1+83)	WL-4	7/31/24
14 WATER LINE 3A PLAN & PROFILE (0+00-4+00)	WL-5	7/31/24
15 WATER LINE 3B PLAN & PROFILE (4+00-7+90)	WL-6	7/31/24
16 WATER GENERAL DETAILS	WL-7	7/31/24

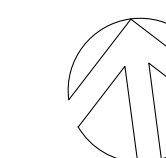
1 EXISTING SITE PLAN  
C-1 SCALE: 1" = 60'

BEFORE YOU DIG - DRILL - BLAST



THE UTILITIES AS SHOWN ON THIS DRAWING WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THIS IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE.





20' 0 10' 20'  
SCALE: 1" = 20'



NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2010019542  
EXPIRATION DATE: 12/31/25

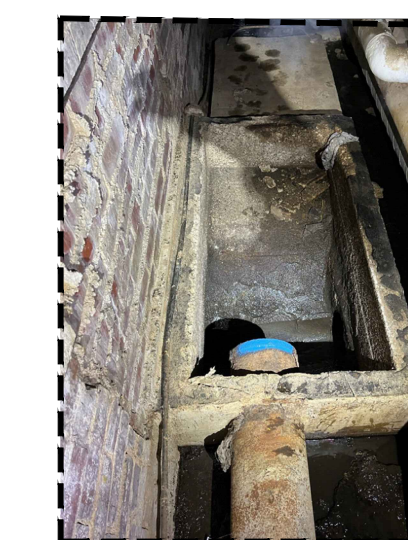


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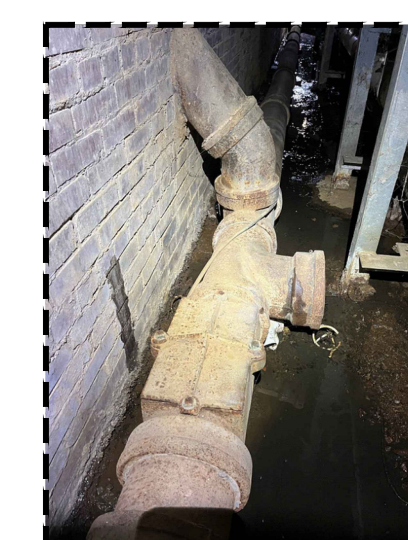
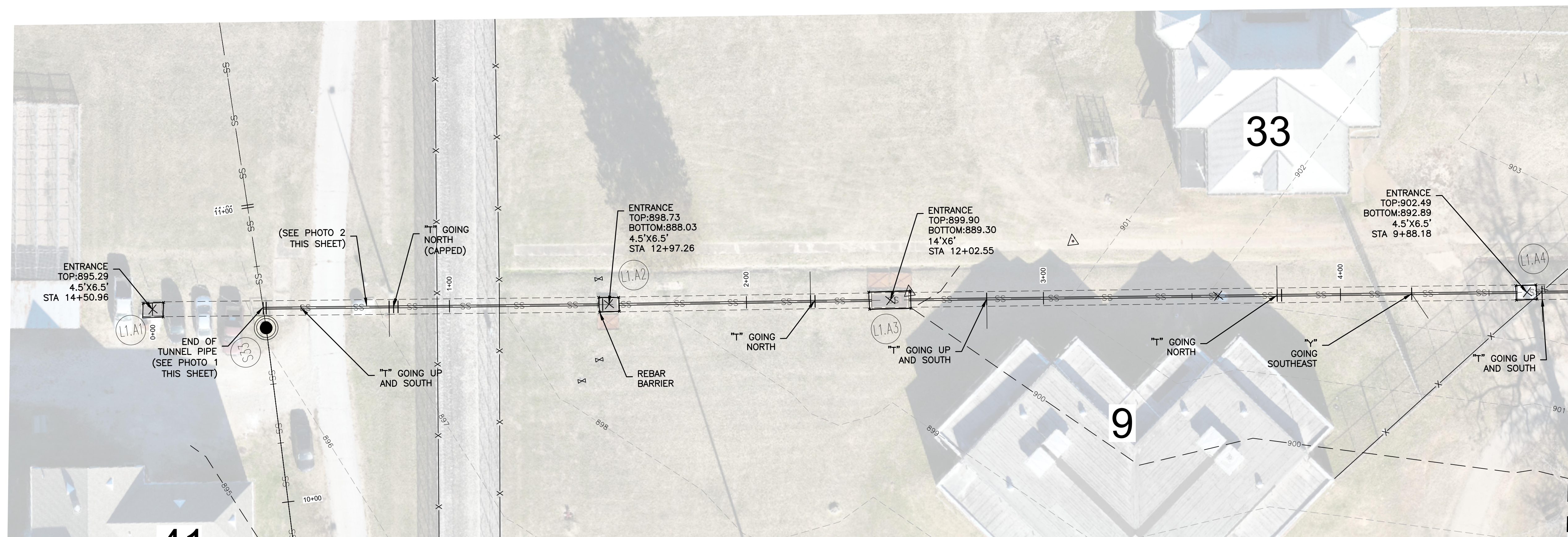
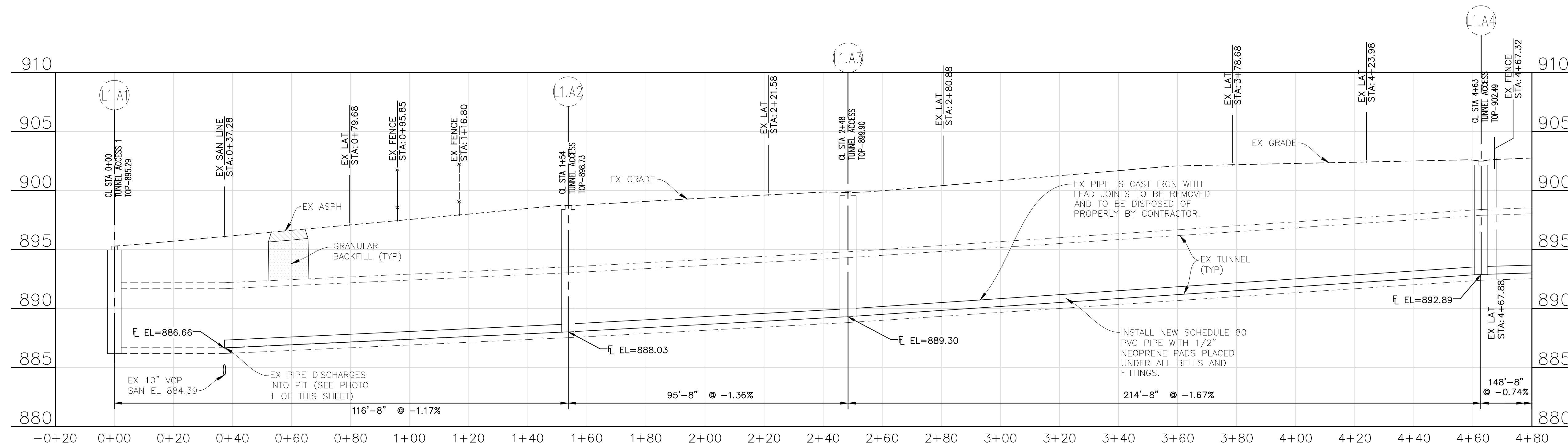


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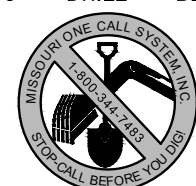


MATCHLINE STA 4+80 (SEE SHEET C-2)



**NOTE:**  
CONTRACTOR TO INSTALL CLEANOUTS AT EACH ENTRANCE;  
HOWEVER, THERE SHALL BE NO MORE THAN 150' BETWEEN  
CLEANOUTS. ADDITIONAL CLEANOUTS TO BE ADDED AS  
NEEDED.

BEFORE YOU  
DIG - DRILL - BLAST



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**NOTE:**  
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LOCATING ALL STATE OWNED UTILITIES.

**PROFILE**  
SCALE: 1" = 20' HORIZ.  
1" = 5' VERT.

**NOTE:**  
CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY BY-PASS PUMPING  
WHICH INCLUDES ALL EQUIPMENT AND CONNECTIONS TO THE SEWER LINES.  
BY-PASS PUMPING EQUIPMENT SHALL BE TORN DOWN AND REMOVED AFTER  
EACH DAYS WORK. CONTRACTOR SHALL ENSURE THAT SEWER CAN GRAVITY  
FLOW WITHOUT BY-PASS PUMING AFTER EACH DAYS WORK AS WELL.

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

WATER & SEWER  
IMPROVEMENTS  
1430 DOUBET ROAD  
FARMINGTON, MO 63640

PROJECT # C2318-02  
SITE # 7008  
FACILITY # 9327008150

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
SEWER LINE 1 PLAN &  
PROFILE (0+00-4+80)

SHEET NUMBER:

**SS-1**

SHEET 3 OF 16  
DATE: 7/31/2024



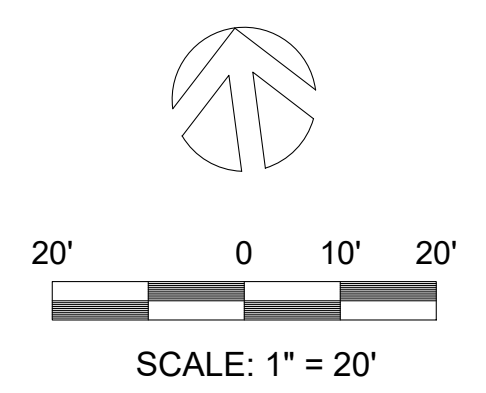
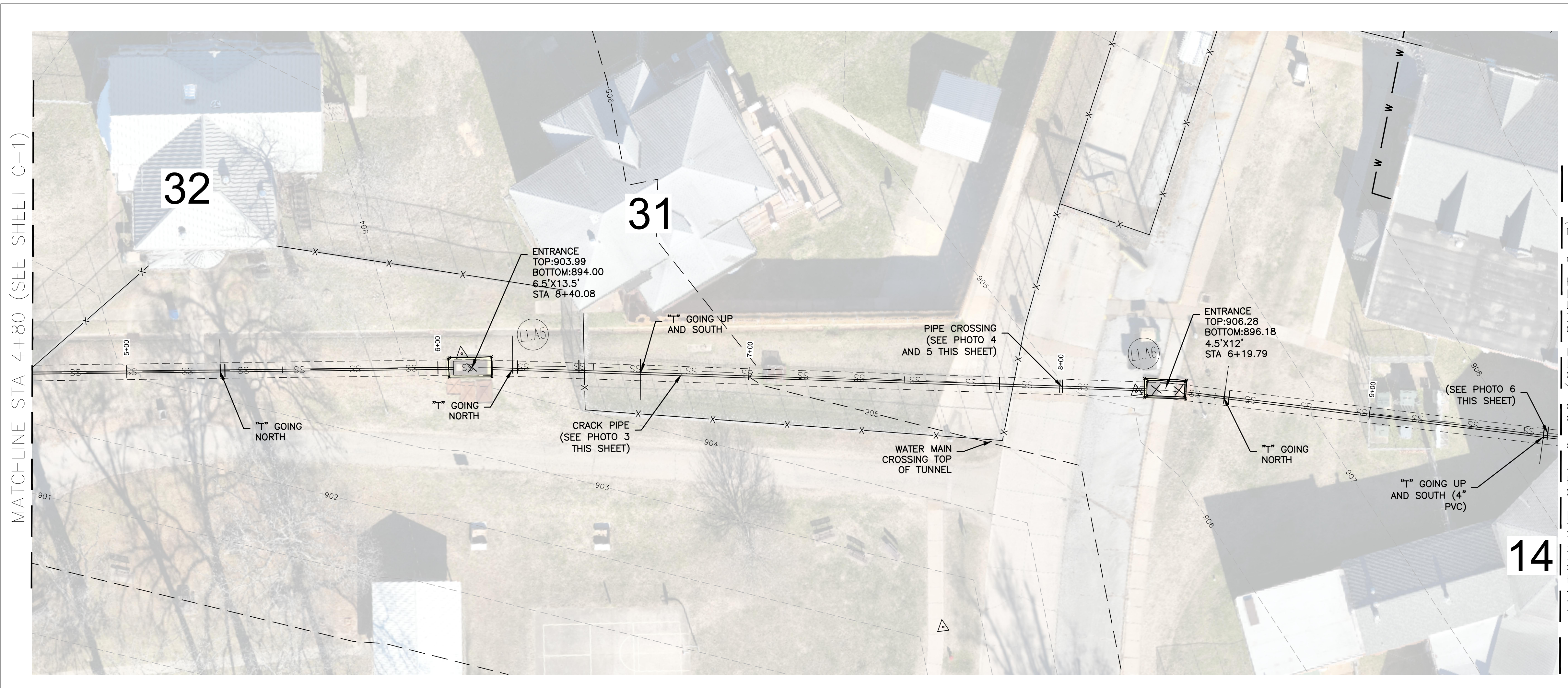


PHOTO "3"



PHOTO "4"



PHOTO "5"

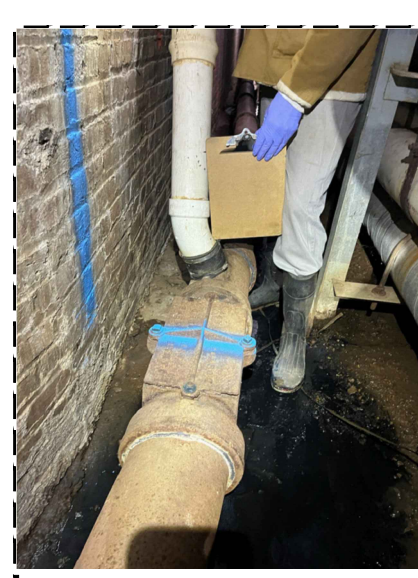


PHOTO "6"

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2003015031  
EXPIRATION DATE: 12/31/25

**TAYLOR ENGINEERING**  
ENGINEERING - MATERIAL TESTING - SURVEY

P.O. BOX 674 · 109 E. COLUMBIA  
FARMINGTON, MISSOURI 63640  
P: 313.756.9226  
F: 313.756.9230  
www.taylor-engineering.com

DESIGNER: 4 CADD Support, LLC  
7756 Marvin Chapel Rd  
Bonnie Terre, MO 63628  
(573) 701-3669  
bmattingly@cdcadvis.biz

OFFICE OF ADMINISTRATION  
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PROJECT # C2318-02  
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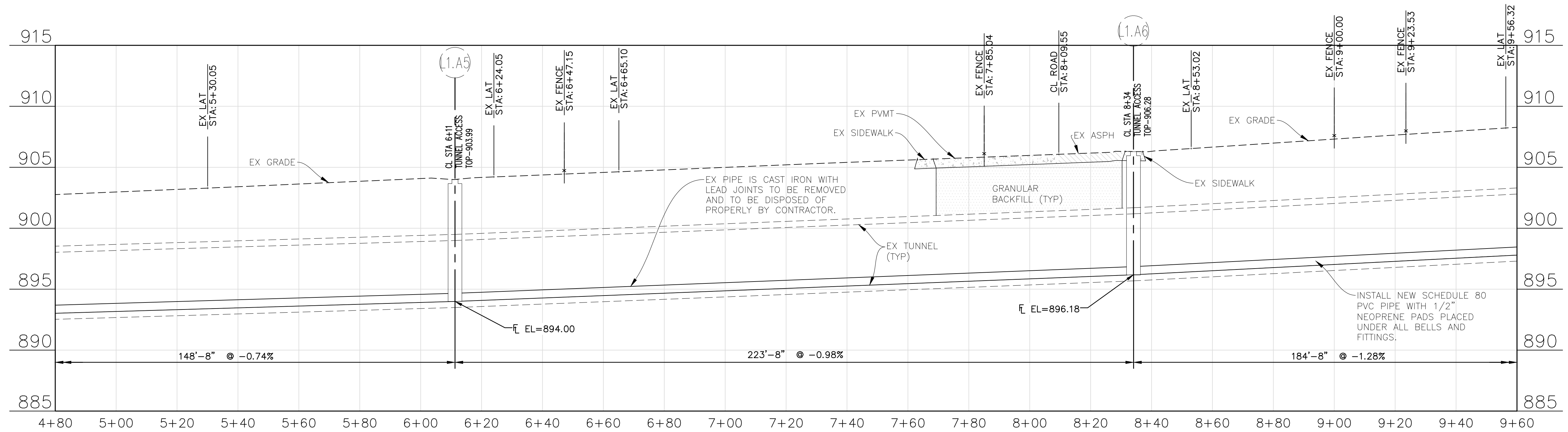
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DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
**SEWER LINE 1 PLAN &  
PROFILE (4+80-9+60)**

SHEET NUMBER:  
**SS-2**

SHEET 4 OF 16  
DATE: 7/31/2024



**NOTE:**  
CONTRACTOR TO INSTALL CLEANOUTS AT EACH ENTRANCE;  
HOWEVER, THERE SHALL BE NO MORE THAN 150' BETWEEN  
CLEANOUTS. ADDITIONAL CLEANOUTS TO BE ADDED AS  
NEEDED.

**PROFILE**  
SCALE: 1" = 20' HORZ.  
1" = 5' VERT.

**NOTE:**  
CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY BY-PASS PUMPING  
WHICH INCLUDES ALL EQUIPMENT AND CONNECTIONS TO THE SEWER LINES.  
BY-PASS PUMPING EQUIPMENT SHALL BE TORN DOWN AND REMOVED AFTER  
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FLOW WITHOUT BY-PASS PUMING AFTER EACH DAYS WORK AS WELL.

**NOTE:**  
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LOCATING ALL STATE OWNED UTILITIES.

**BEFORE YOU  
DIG - DRILL - BLAST**

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PROTECT SAID UTILITIES FROM ANY DAMAGE.

1-800-344-7483 (MISSOURI)

**"TUNNEL SEWER REPLACEMENT LINE 1"**





NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2010019542  
EXPIRATION DATE: 12/31/25

P.O. BOX 674 · 109 E COLUMBIA  
FARMINGTON, MISSOURI 63640  
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F: 573.756.7330  
www.taylorengineeringllc.com



Designer: 4 CADD Support, LLC  
7756 Marvin Chapel Rd  
Bonne Terre, MO 63628  
(573) 701-3669  
bmattingly@tdcadis.biz

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

WATER & SEWER  
IMPROVEMENTS  
1430 DOUBET ROAD  
FARMINGTON, MO 63640

PROJECT # C2318-02  
SITE # 7008  
FACILITY # 9327008150

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

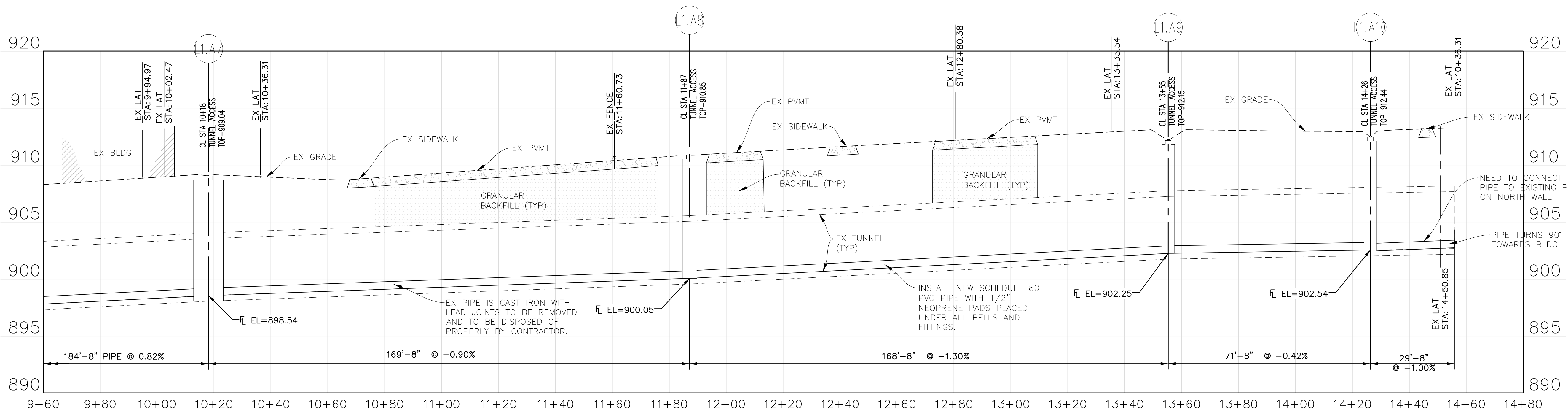
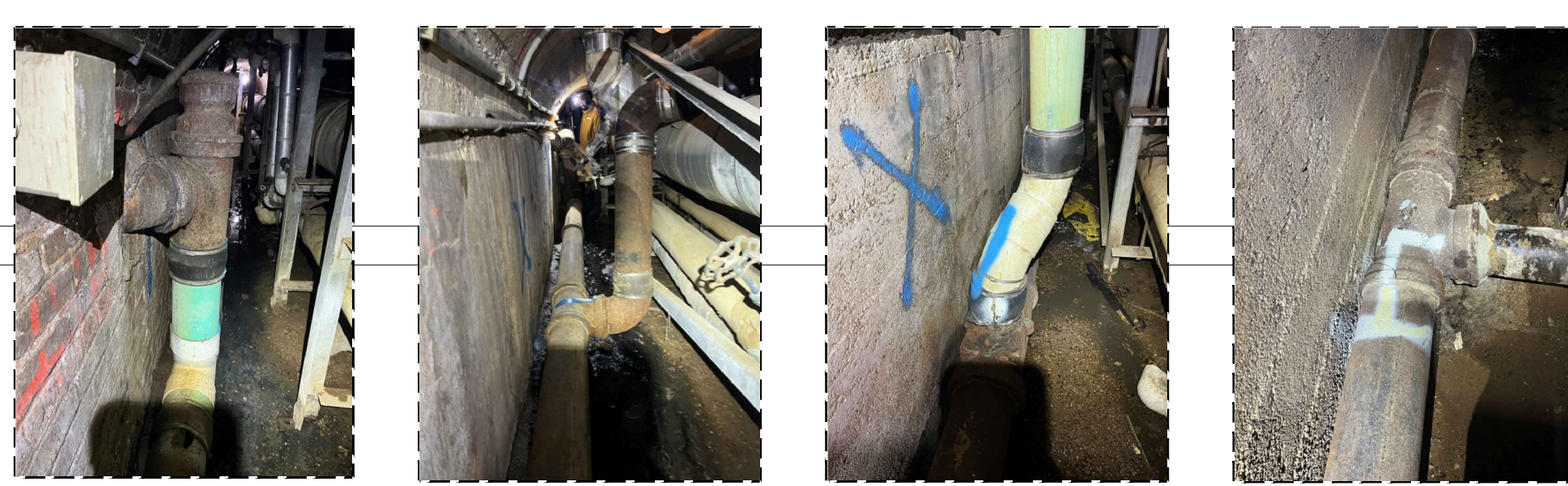
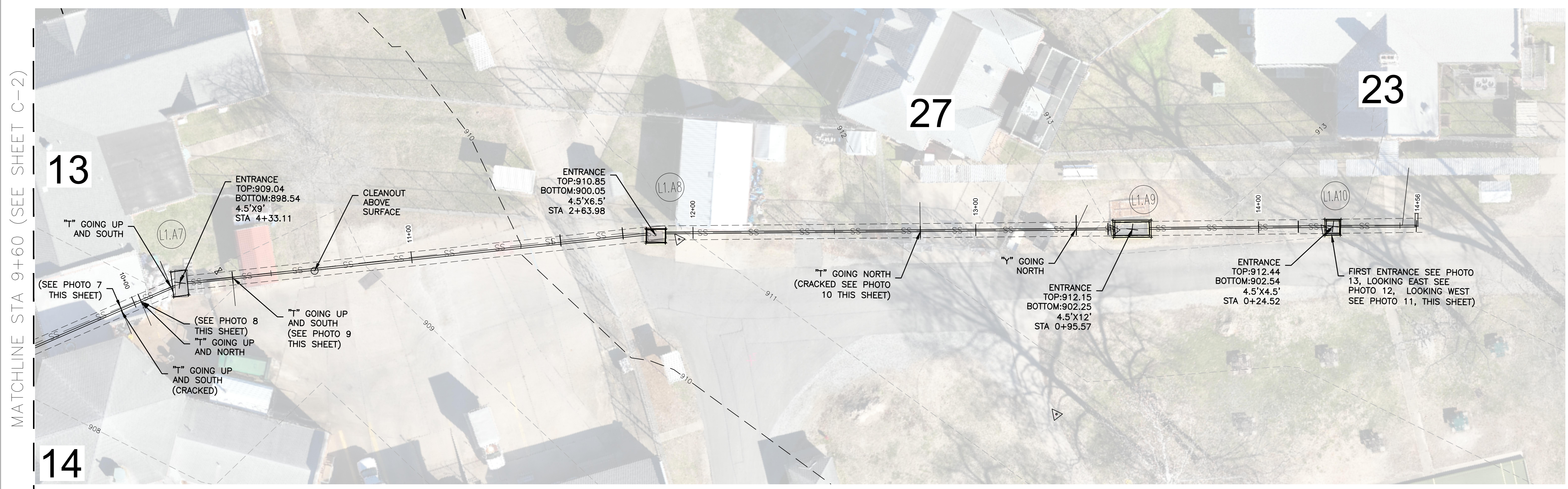
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DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
SEWER LINE 1 PLAN &  
PROFILE (9+60-14+60)

SHEET NUMBER:

**SS-3**

SHEET 5 OF 16  
DATE: 7/31/2024



**NOTE:**  
CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL STATE OWNED UTILITIES.

BEFORE YOU DIG - DRILL - BLAST

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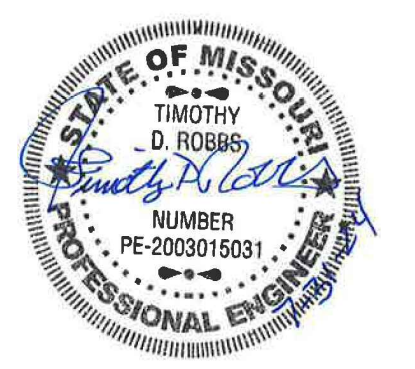
**NOTE:**  
CONTRACTOR TO INSTALL CLEANOUTS AT EACH ENTRANCE; HOWEVER, THERE SHALL BE NO MORE THAN 150' BETWEEN CLEANOUTS. ADDITIONAL CLEANOUTS TO BE ADDED AS NEEDED.

**PROFILE**  
SCALE: 1" = 20' HORIZ.  
1" = 5' VERT.

**"TUNNEL SEWER REPLACEMENT LINE 1"**

**NOTE:**  
CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY BY-PASS PUMPING WHICH INCLUDES ALL EQUIPMENT AND CONNECTIONS TO THE SEWER LINES. BY-PASS PUMPING EQUIPMENT SHALL BE TORN DOWN AND REMOVED AFTER EACH DAYS WORK. CONTRACTOR SHALL ENSURE THAT SEWER CAN GRAVITY FLOW WITHOUT BY-PASS PUMING AFTER EACH DAYS WORK AS WELL.





NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2010019542  
EXPIRATION DATE: 12/31/25

P.O. BOX 674 109 E COLUMBIA  
FARMINGTON, MISSOURI 63640  
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Bonnie Terre, MO 63628  
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bmattingly@tdcadis.biz

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

WATER & SEWER  
IMPROVEMENTS  
1430 DOUBET ROAD  
FARMINGTON, MO 63640

PROJECT # C2318-02  
SITE # 7008  
FACILITY # 9327008150

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

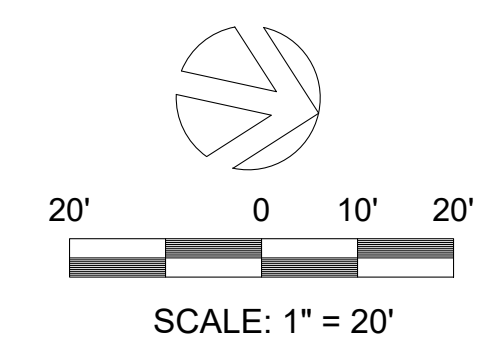
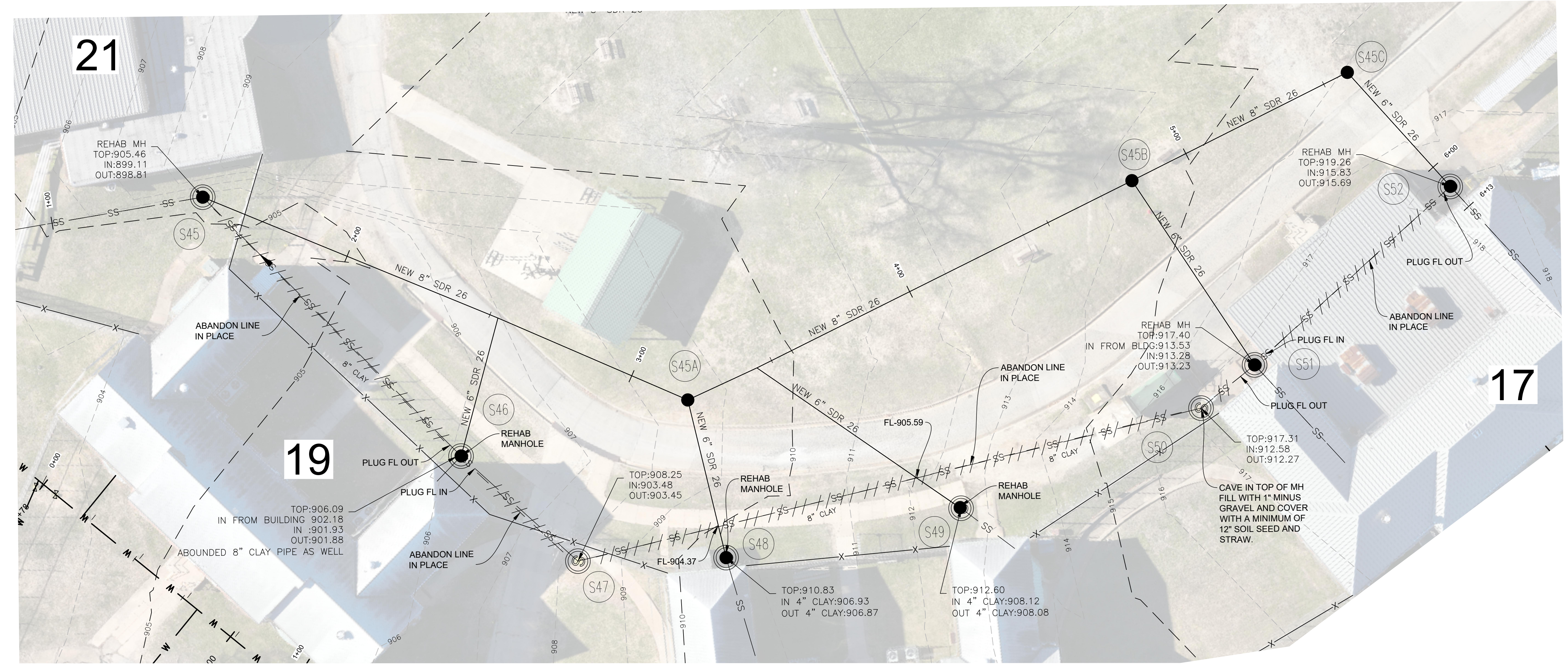
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CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
SEWER LINE 2 PLAN &  
PROFILE (0+00-6+08)

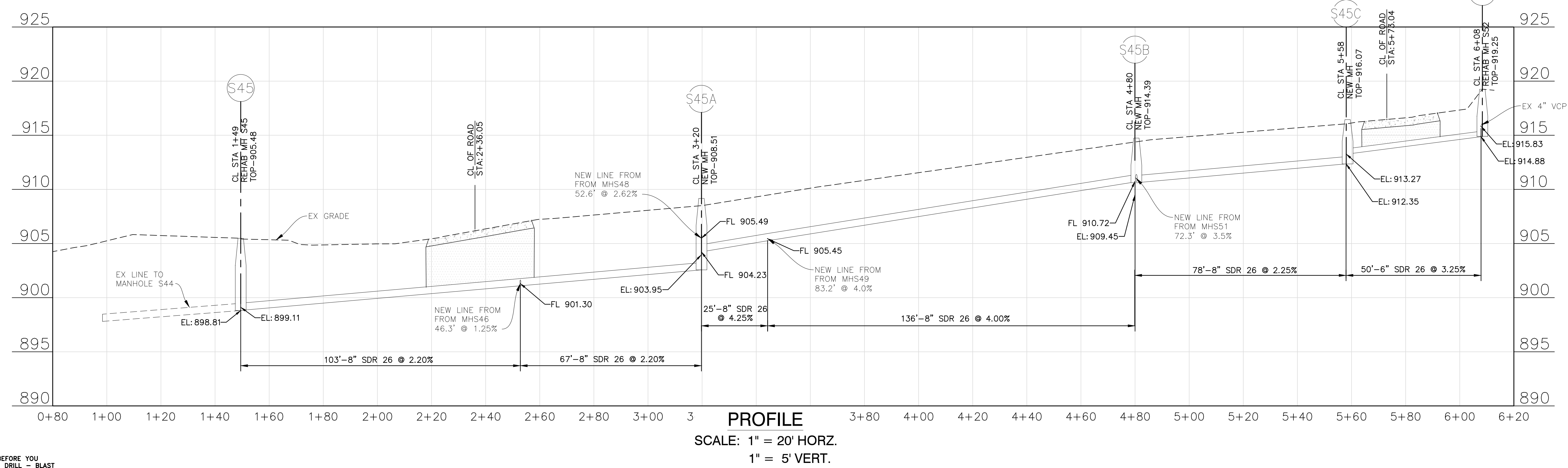
SHEET NUMBER:

SS-4

SHEET 6 OF 16  
DATE: 7/31/2024



**BYPASS PUMPING, CONSTRUCTION SEQUENCING**  
NEED TO MAKE SURE THAT END OF EACH DAY THAT SEWER CAN FLOW WITHOUT  
BY-PASS PUMPING.



PROFILE  
SCALE: 1" = 20' HORIZ.  
1" = 5' VERT.

**NOTE:**  
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LOCATING ALL STATE OWNED UTILITIES.

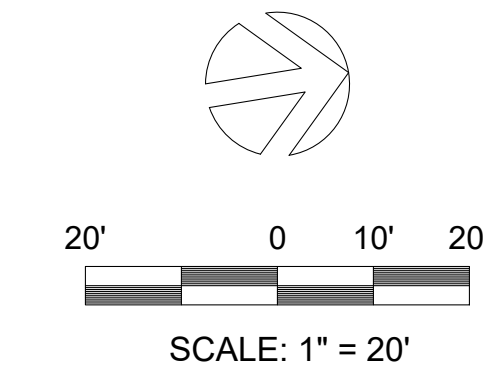
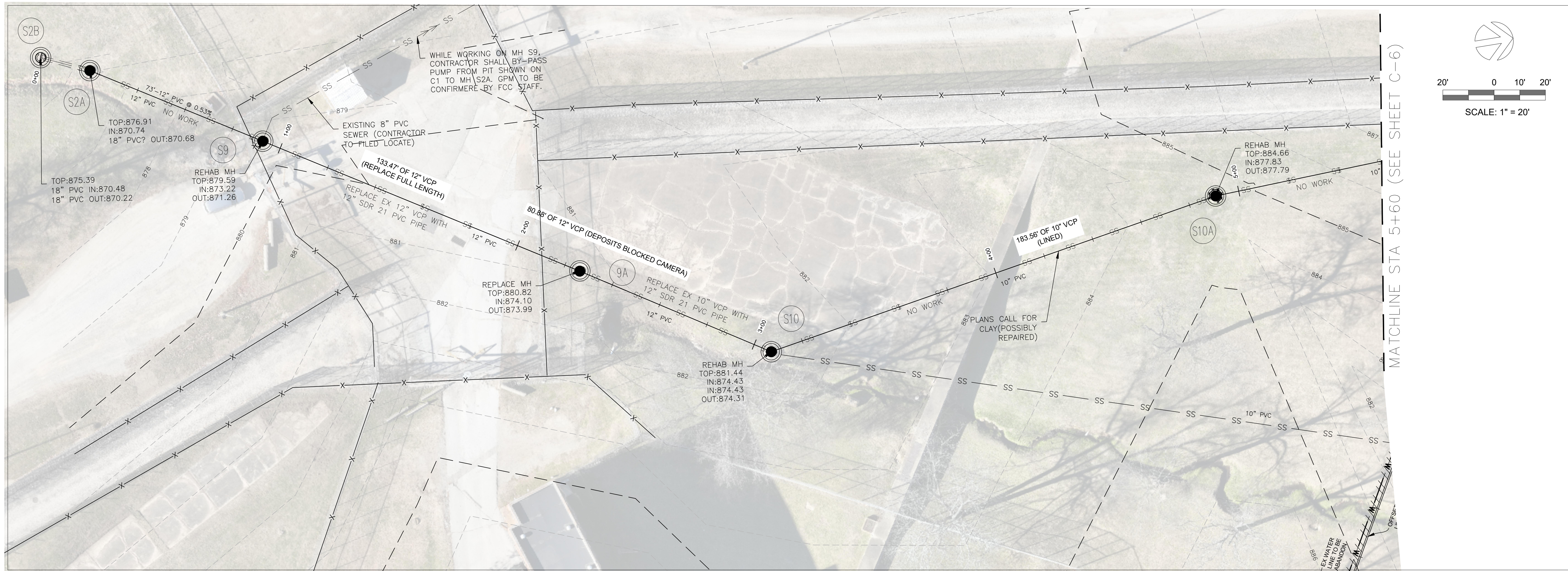
"SEWER REPLACEMENT LINE 2"



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1-800-344-7483 (MISSOURI)





MATCHLINE STA 5+60 (SEE SHEET C-6)

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2010019542  
EXPIRATION DATE: 12/31/25

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PROJECT # C2318-02  
SITE # 7008  
FACILITY # 9327008150

REVISION: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
SEWER LINE 3 PLAN &  
PROFILE (0+00-5+60)

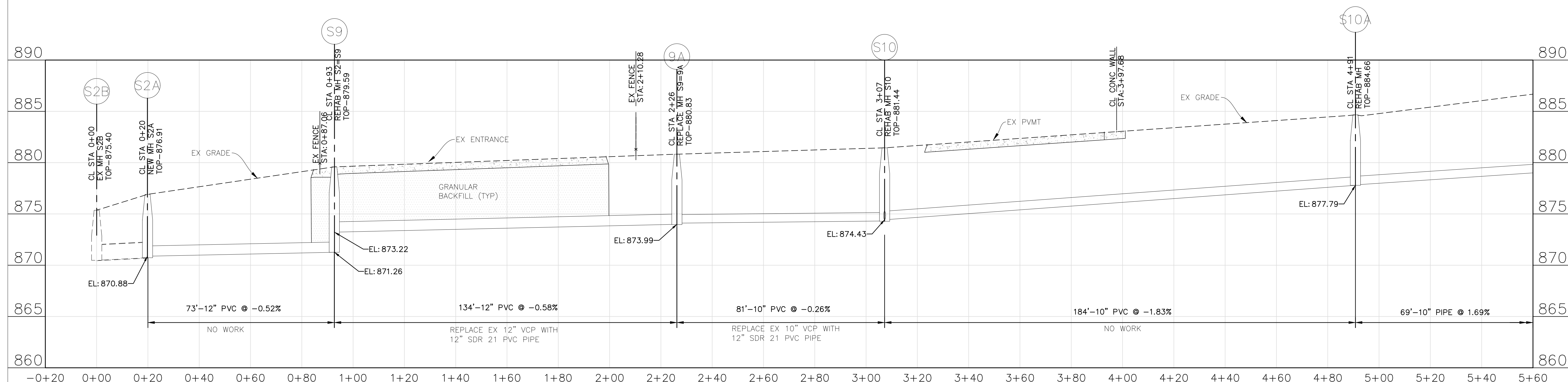
SHEET NUMBER:

**SS-5**

SHEET 7 OF 16  
DATE: 7/31/2024

**BYPASS PUMPING, CONSTRUCTION SEQUENCING**

NEED TO MAKE SURE THAT END OF EACH DAY THAT SEWER CAN FLOW WITHOUT BY-PASS PUMPING.



**PROFILE**

SCALE: 1" = 20' HORIZ.  
1" = 5' VERT.

**"SEWER REHABILITATION LINE 3"**



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1-800-344-7483 (MISSOURI)





NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2003015031  
EXPIRATION DATE: 12/31/25

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PROJECT # C2318-02  
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DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

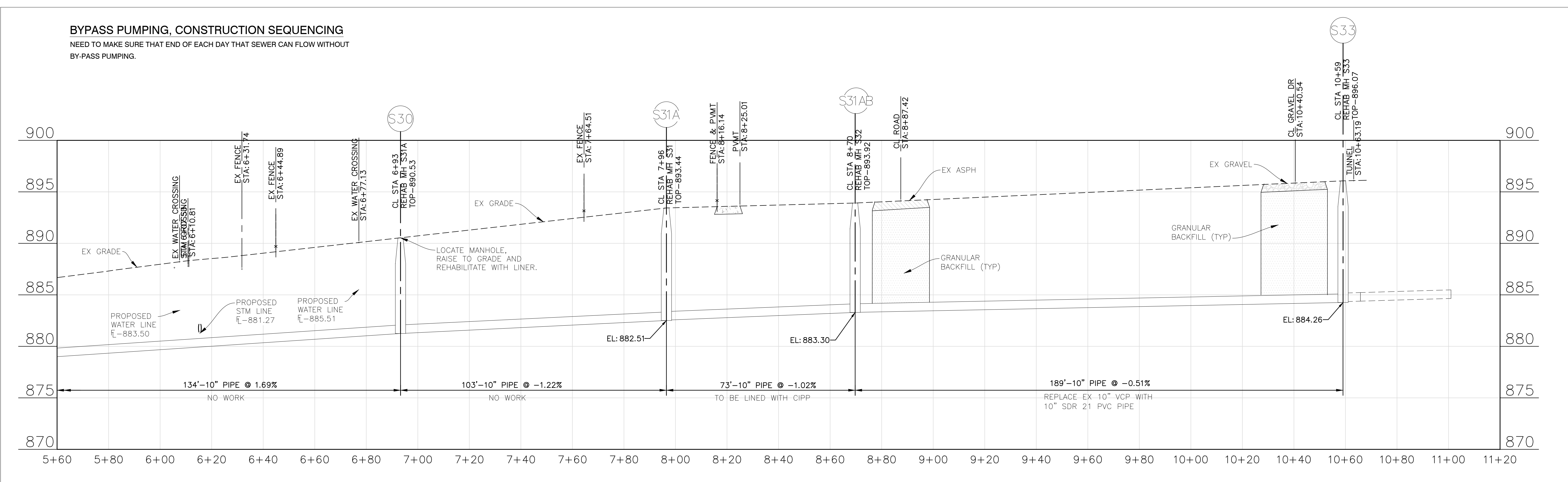
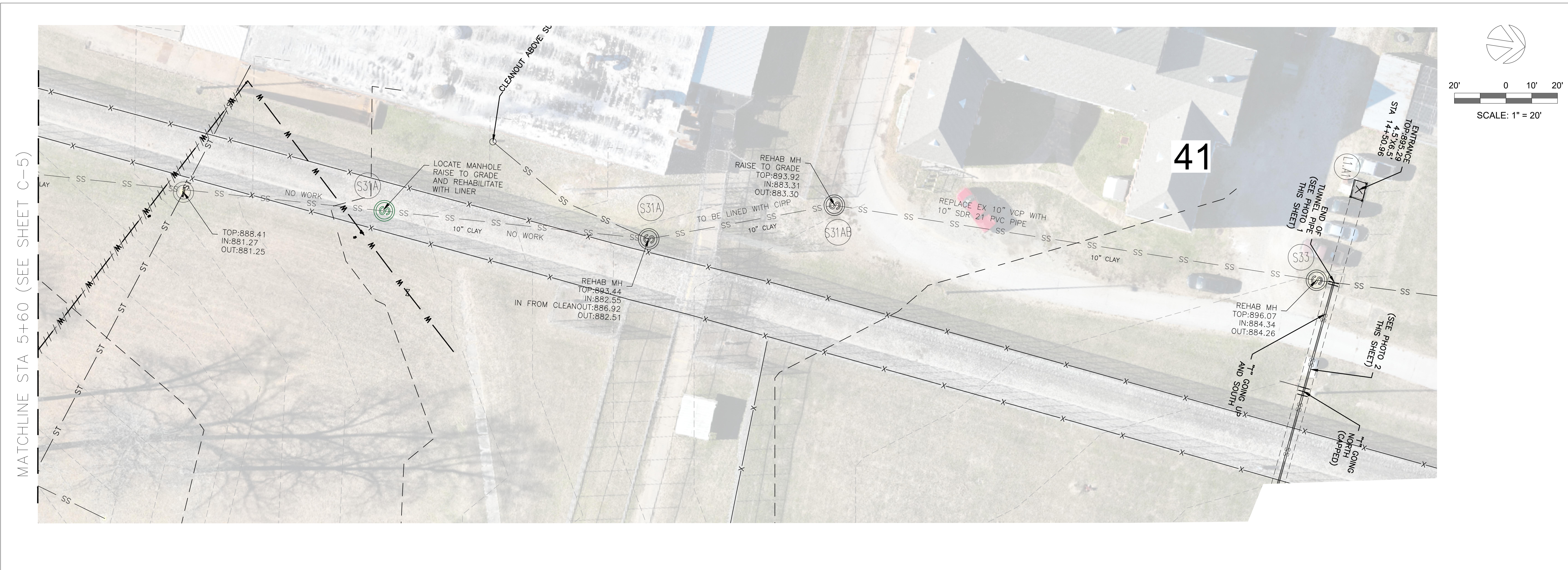
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DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
SEWER LINE 3 PLAN &  
PROFILE (5+60-10+64)

SHEET NUMBER:

SS-6

SHEET 8 OF 16  
DATE: 7/31/2024



BEFORE YOU  
DIG - DRILL - BLAST

1-800-344-7483 (MISSOURI)

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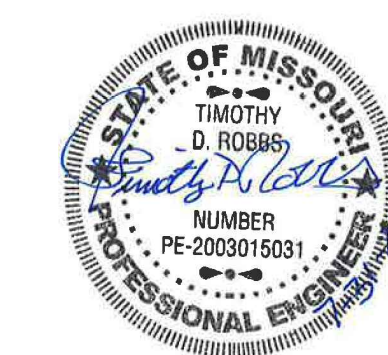
**NOTE:**  
CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL STATE OWNED UTILITIES.

**PROFILE**  
SCALE: 1" = 20' HORZ.  
1" = 5' VERT.

**"SEWER REHABILITATION LINE 3"**

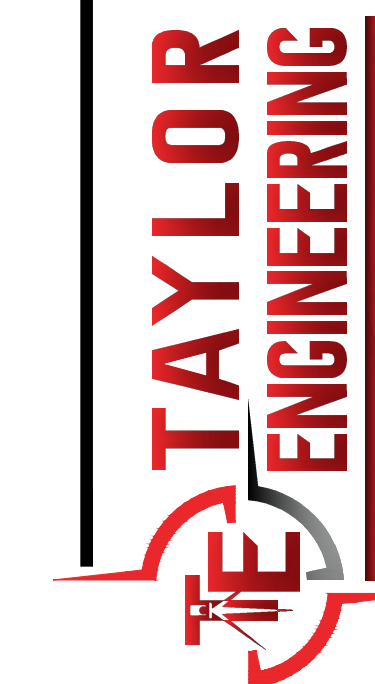
**NOTE:**  
CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY BY-PASS PUMPING WHICH INCLUDES ALL EQUIPMENT AND CONNECTIONS TO THE SEWER LINES. BY-PASS PUMPING EQUIPMENT SHALL BE TORN DOWN AND REMOVED AFTER EACH DAYS WORK. CONTRACTOR SHALL ENSURE THAT SEWER CAN GRAVITY FLOW WITHOUT BY-PASS PUMING AFTER EACH DAYS WORK AS WELL.





NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2010019542  
EXPIRATION DATE: 12/31/25

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DESIGNER: PROFESSIONAL ENGINEERING  
CERTIFICATE OF AUTHORITY: 200014629  
EXPIRATION DATE: DECEMBER 31, 2024



Designer: 4 CADD Support, LLC  
7756 Marvin Chapel Rd  
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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
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DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

WATER & SEWER  
IMPROVEMENTS  
1430 DOUBET ROAD  
FARMINGTON, MO 63640

PROJECT # C2318-02  
SITE # 7008  
FACILITY # 9327008150

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

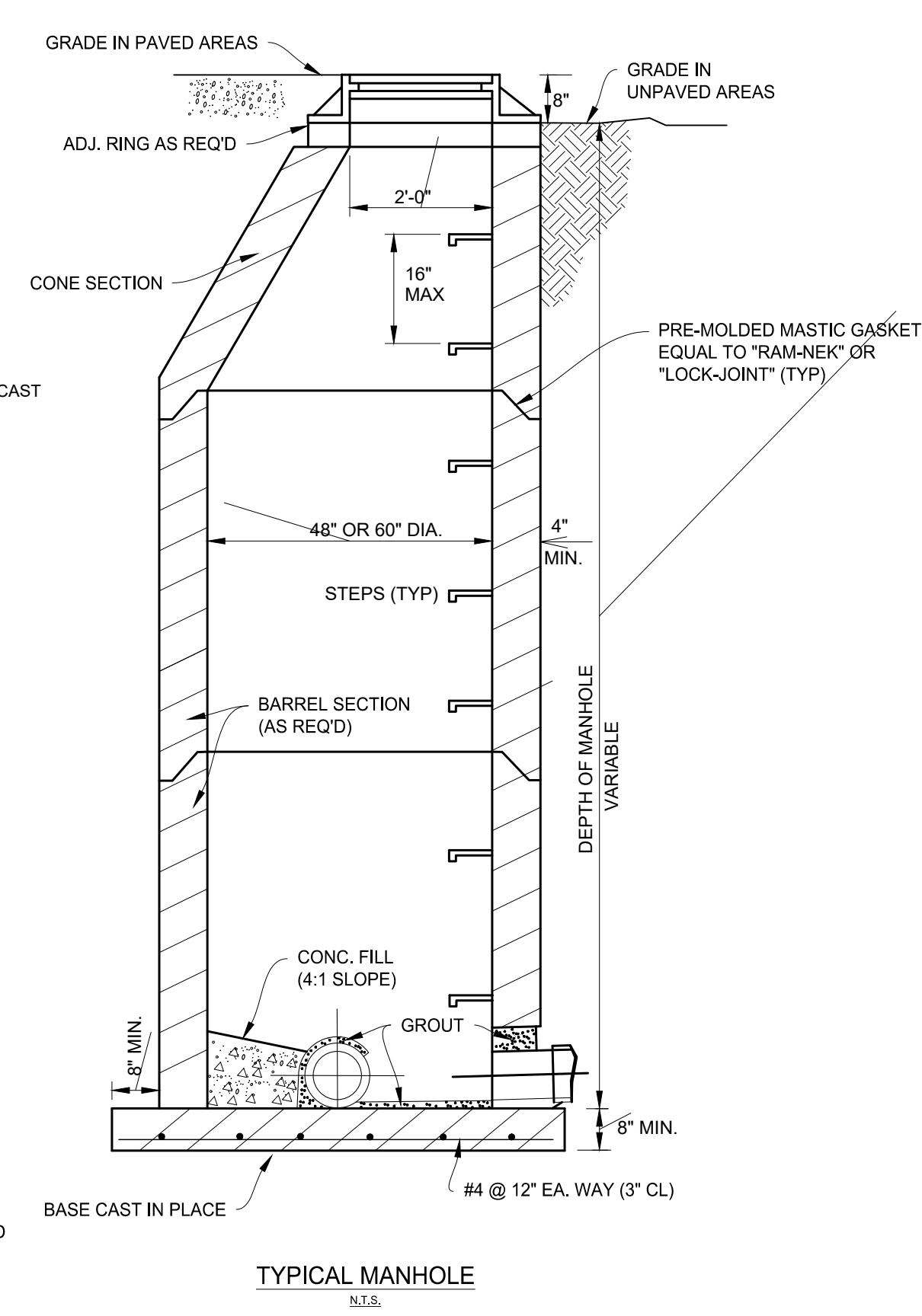
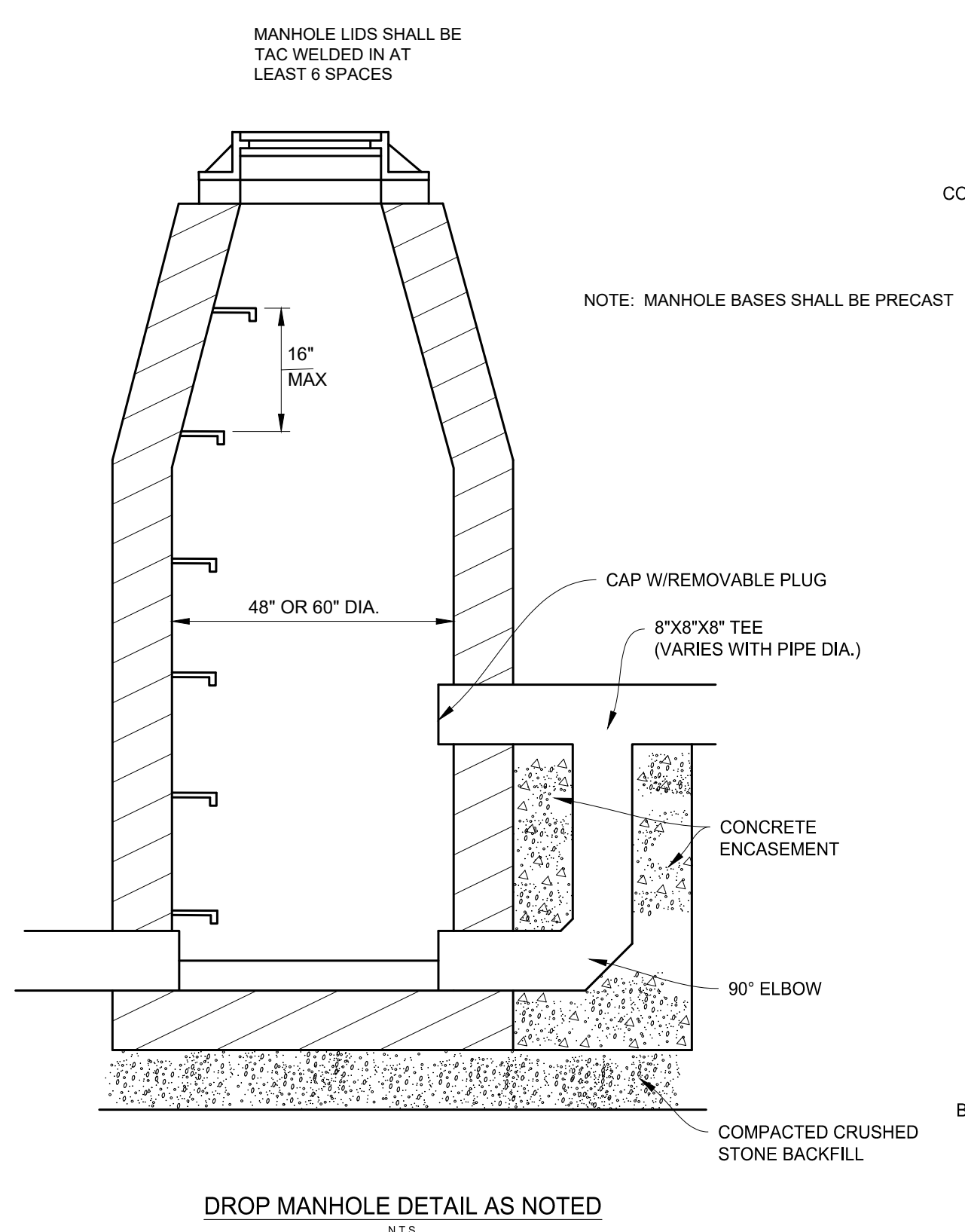
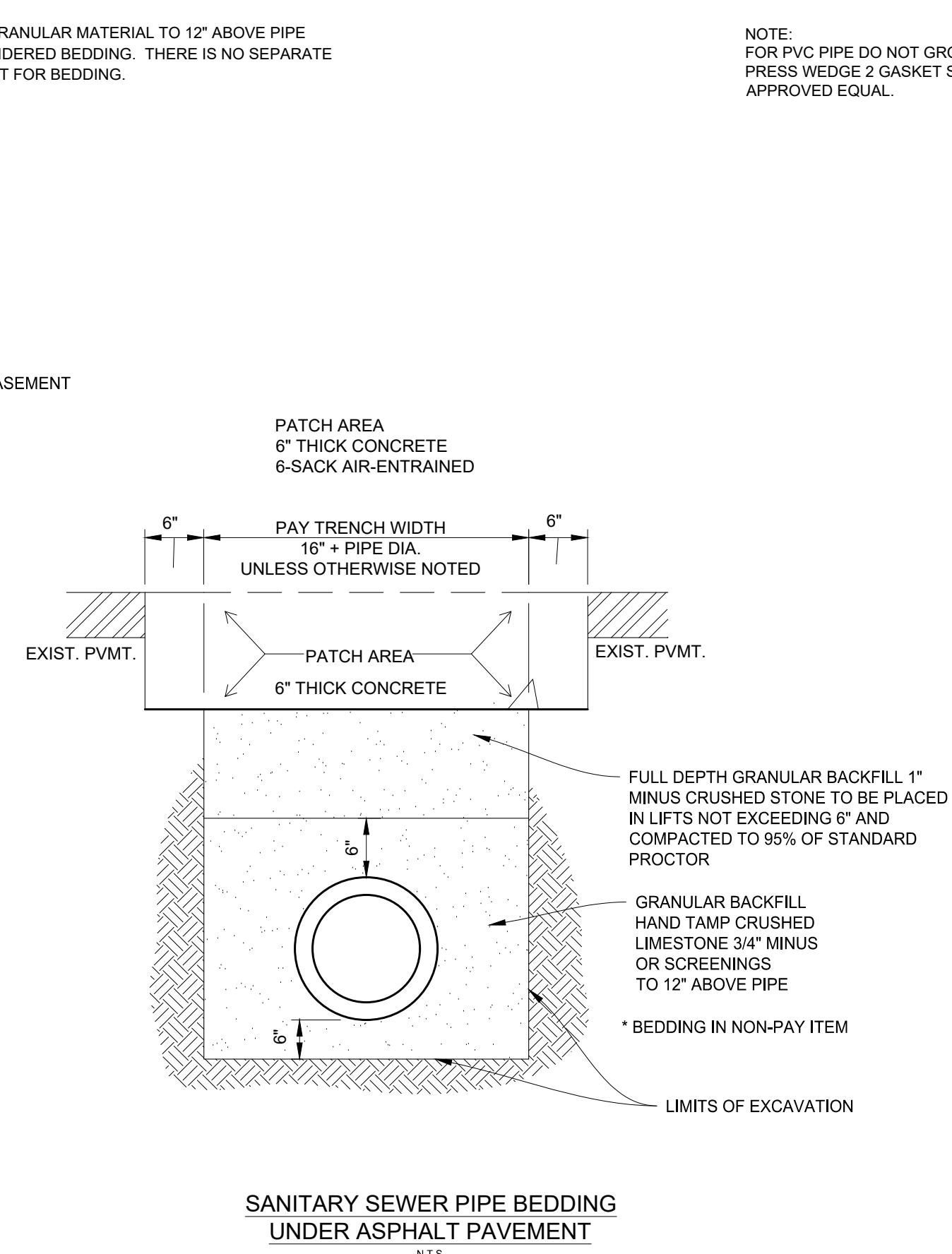
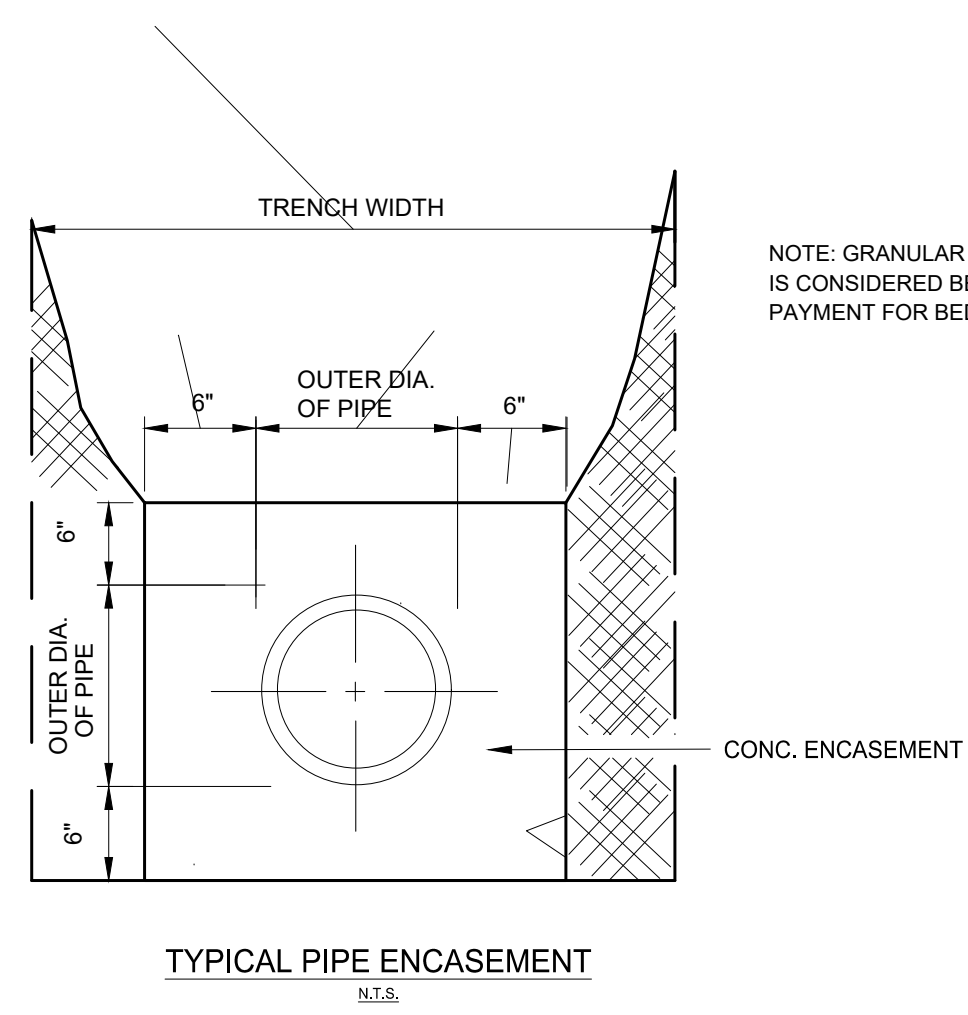
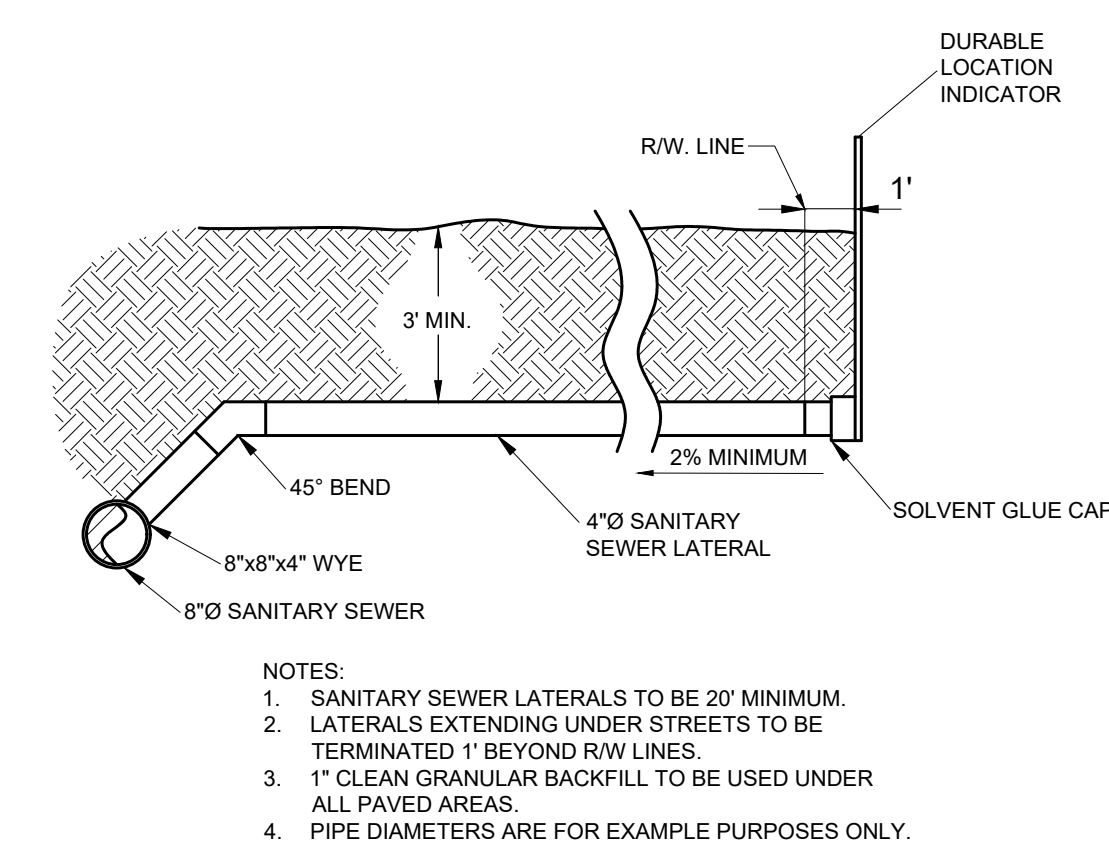
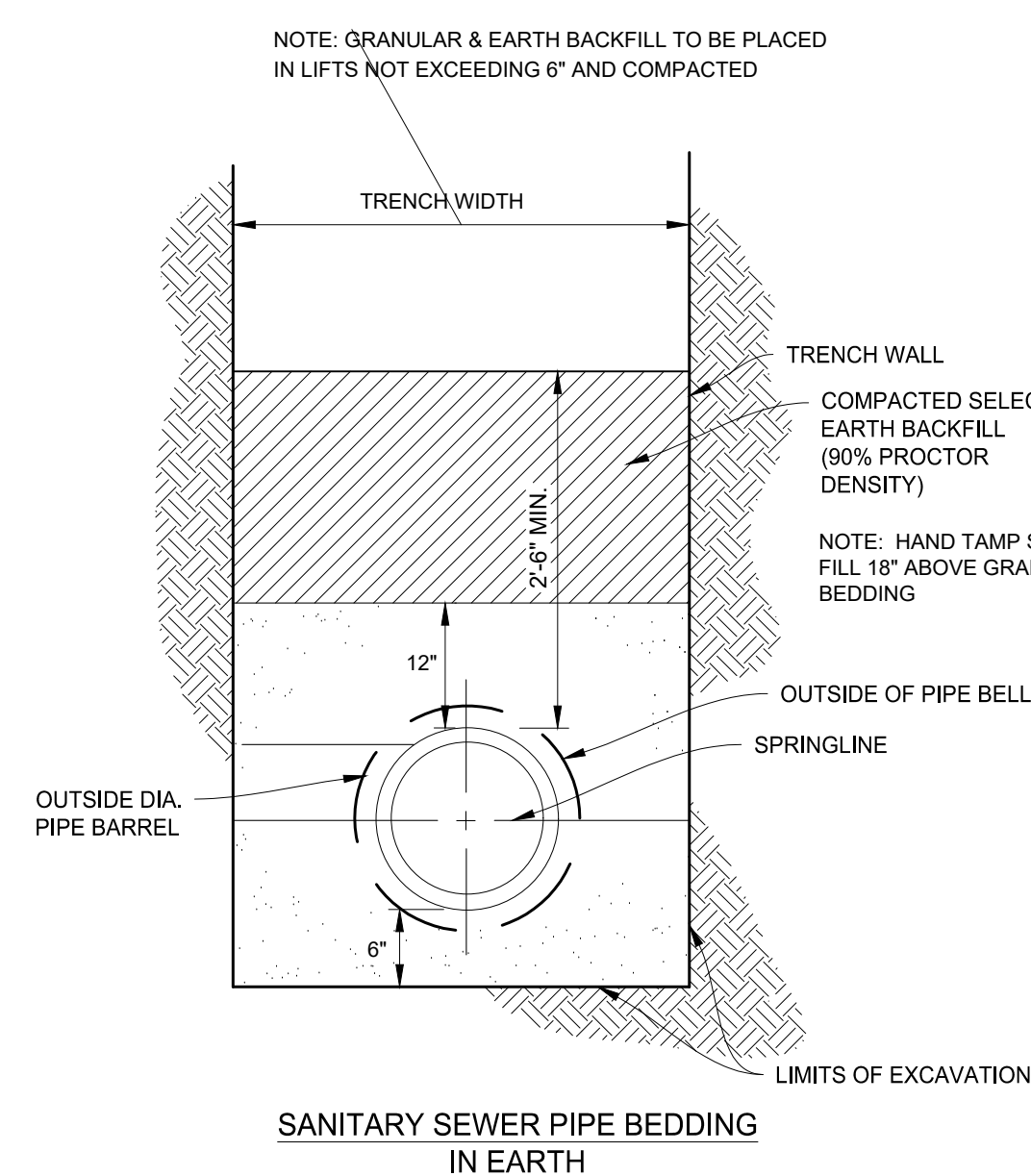
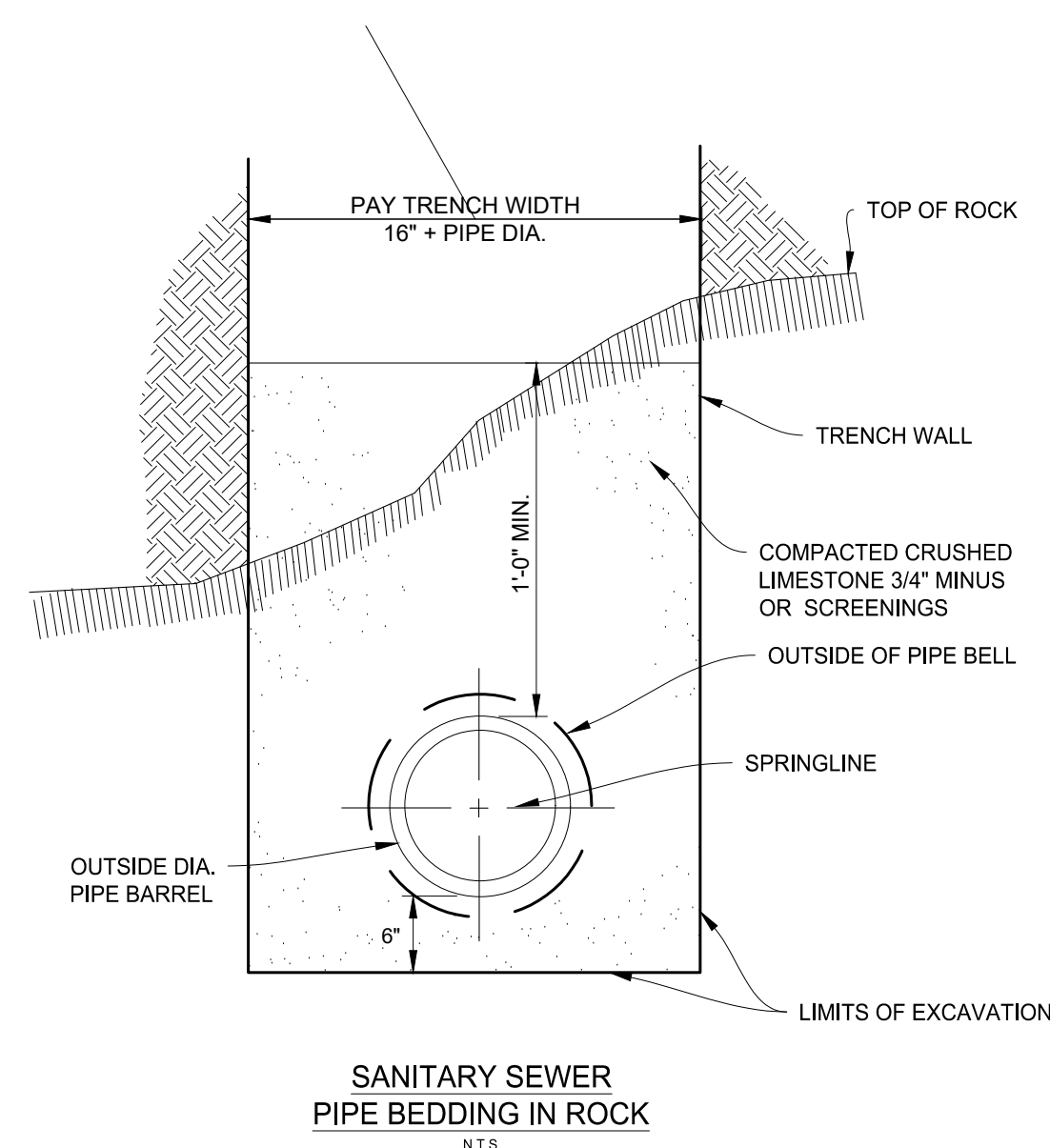
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DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE: **SEWER  
GENERAL DETAILS**

SHEET NUMBER:

**SS-7**

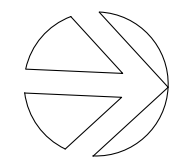
SHEET 9 OF 16  
DATE: 7/31/2024



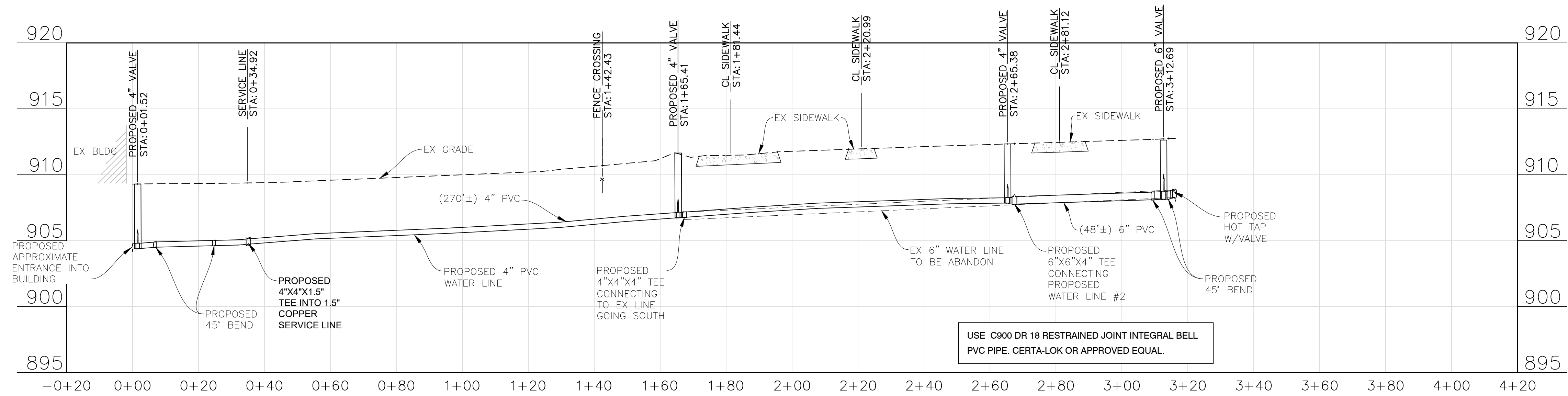
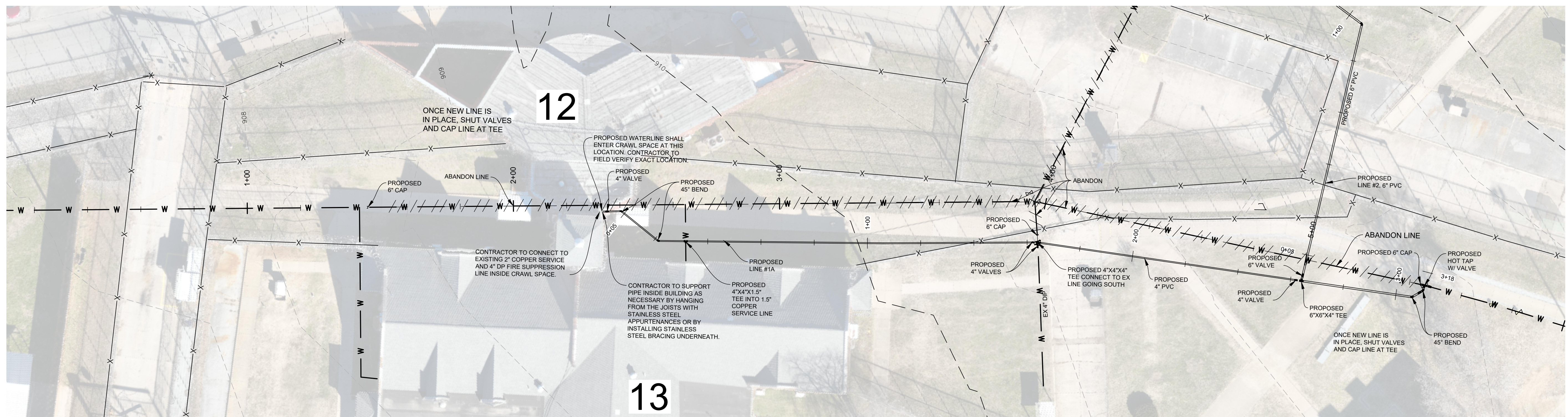
- SANITARY SEWER NOTES:**
- SANITARY SEWER PIPING SHALL BE SDR-26 PVC.
  - SANITARY SEWER MANHOLE FRAME AND COVERS SHALL BE "NEENAH R-1642" WITH "T" GASKET SELF SEALING LIDS AND "SANITARY SEWER" LETTERED ON TOP.
  - TESTING OF THE SEWER MAIN SHALL BE COMPLETED IN ACCORDANCE WITH THE MISSOURI DEPT. OF NATURAL RESOURCES REQUIREMENTS, INCLUDING LAMP TESTING, MANDREL TESTING, AIR PRESSURE TESTING OF SEWER LINES, AND VACUUM TESTING OF THE MANHOLES. THE APPROPRIATE CITY INSPECTOR MUST BE PRESENT TO OBSERVE APPROVE ALL TESTING.
  - ALL MANHOLES SHALL BE CONSTRUCTED WITH PAVED INVERTS AND "A-LOCK" GASKETS FOR PIPE CONNECTIONS.
  - PRIOR TO CONSTRUCTION, THE DEVELOPER MUST OBTAIN A CONSTRUCTION PERMIT FROM THE MISSOURI DEPT. OF NATURAL RESOURCES FOR THE SEWER MAIN EXTENSION.

**"SEWER GENERAL DETAILS"**





20' 0 10' 20'  
SCALE: 1" = 20'



**NOTE:**  
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**PROFILE**  
SCALE: 1" = 20' HORIZ.  
1" = 5' VERT.

**"WATER LINE 1A"**

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**BEFORE YOU DIG - DRILL - BLAST**

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1-800-344-7483 (MISSOURI)

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2010019542  
EXPIRATION DATE: 12/31/25

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FACILITY # 9327008150

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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

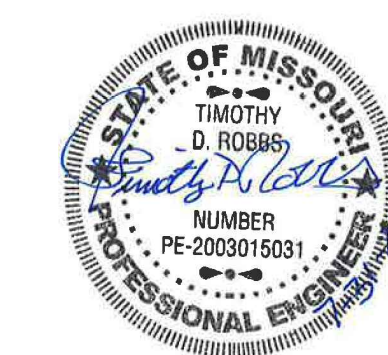
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WATER LINE 1A PLAN  
& PROFILE (0+00-3+18)

SHEET NUMBER:

**WL-1**

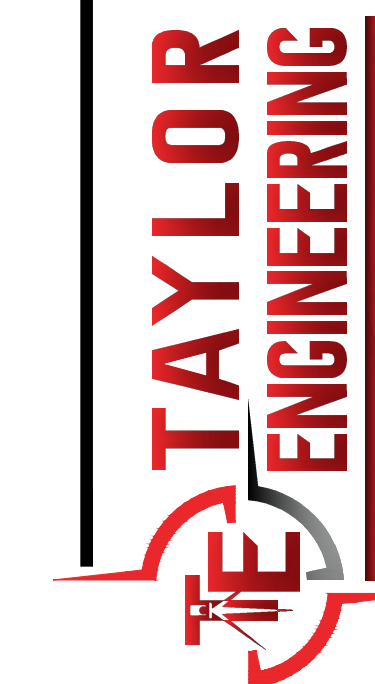
SHEET 10 OF 16  
DATE: 7/31/2024



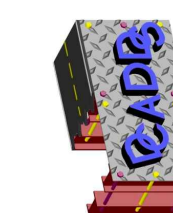


NAME: TIMOTHY D. ROBBS  
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LICENSE NO: PE-2003015031  
EXPIRATION DATE: 12/31/25

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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

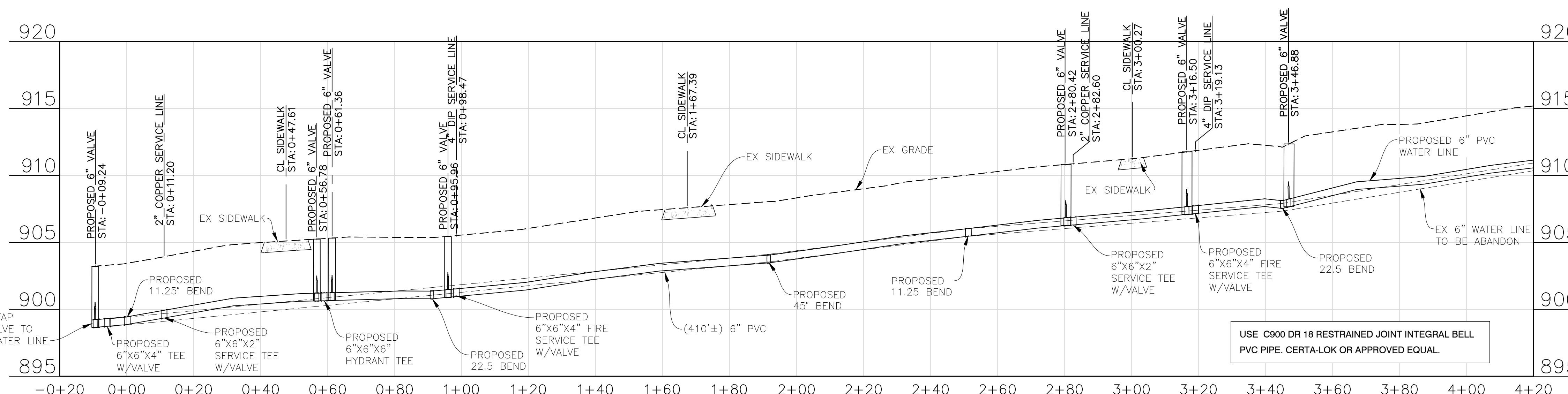
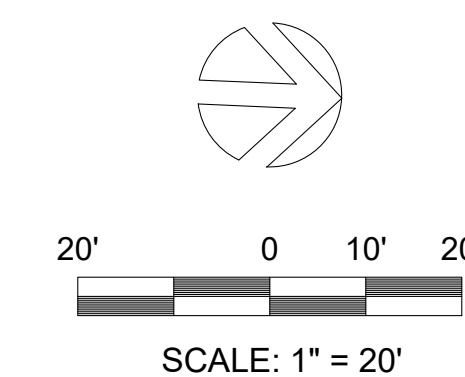
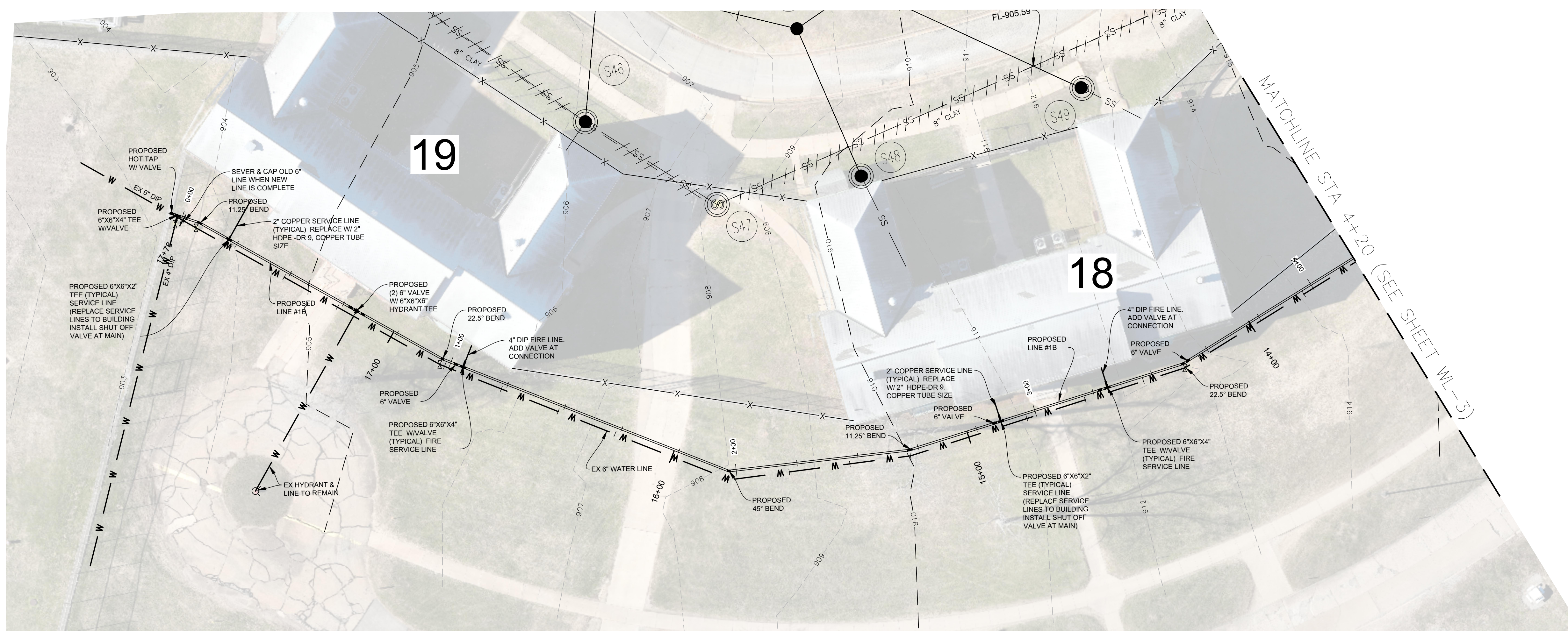
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DRAWN BY: \_\_\_\_\_  
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DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
WATER LINE 1B PLAN  
& PROFILE (0+00-4+20)

SHEET NUMBER:

WL-2

SHEET 11 OF 16  
DATE: 7/31/2024



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**PROFILE**  
SCALE: 1" = 20' HORIZ.  
1" = 5' VERT.

"WATER LINE 1B"

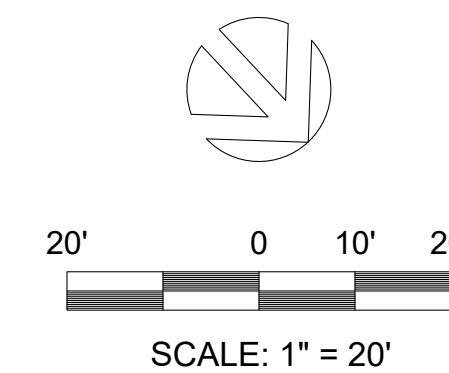
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BEFORE YOU  
DIG - DRILL - BLAST



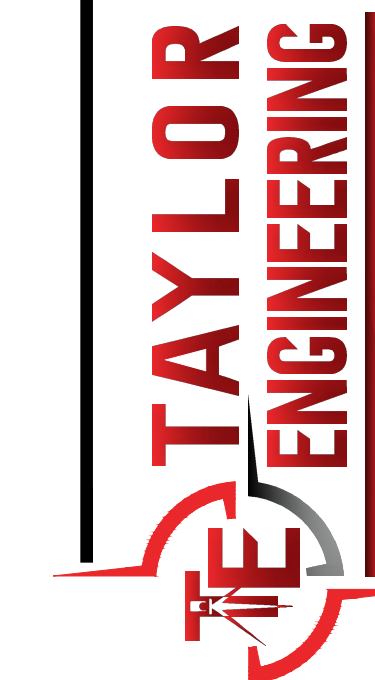
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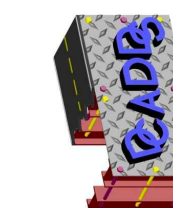


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LICENSE NO: PE-2010019542  
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ISSUE DATE: \_\_\_\_\_

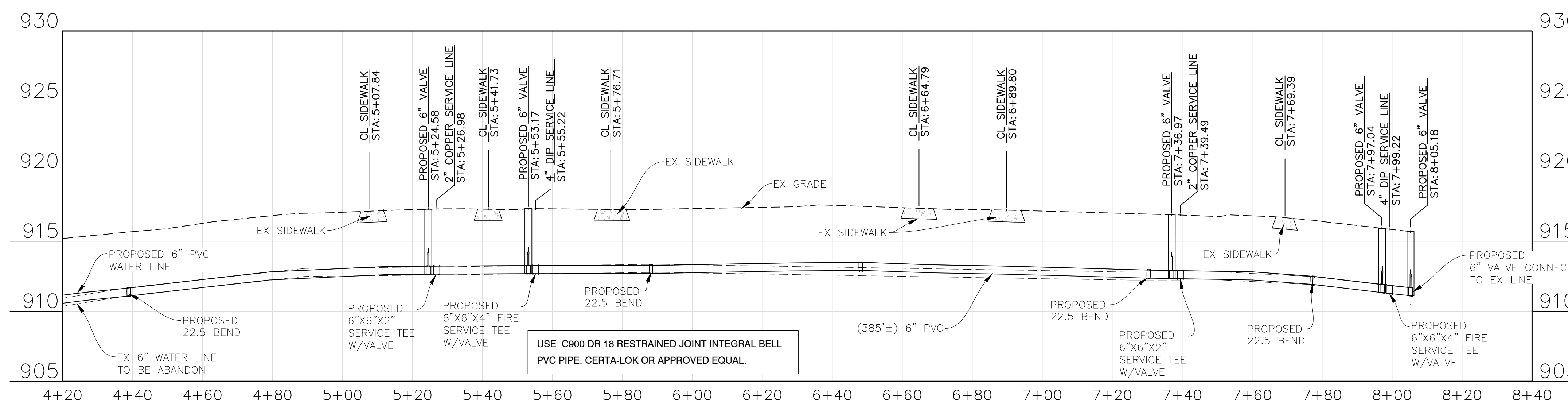
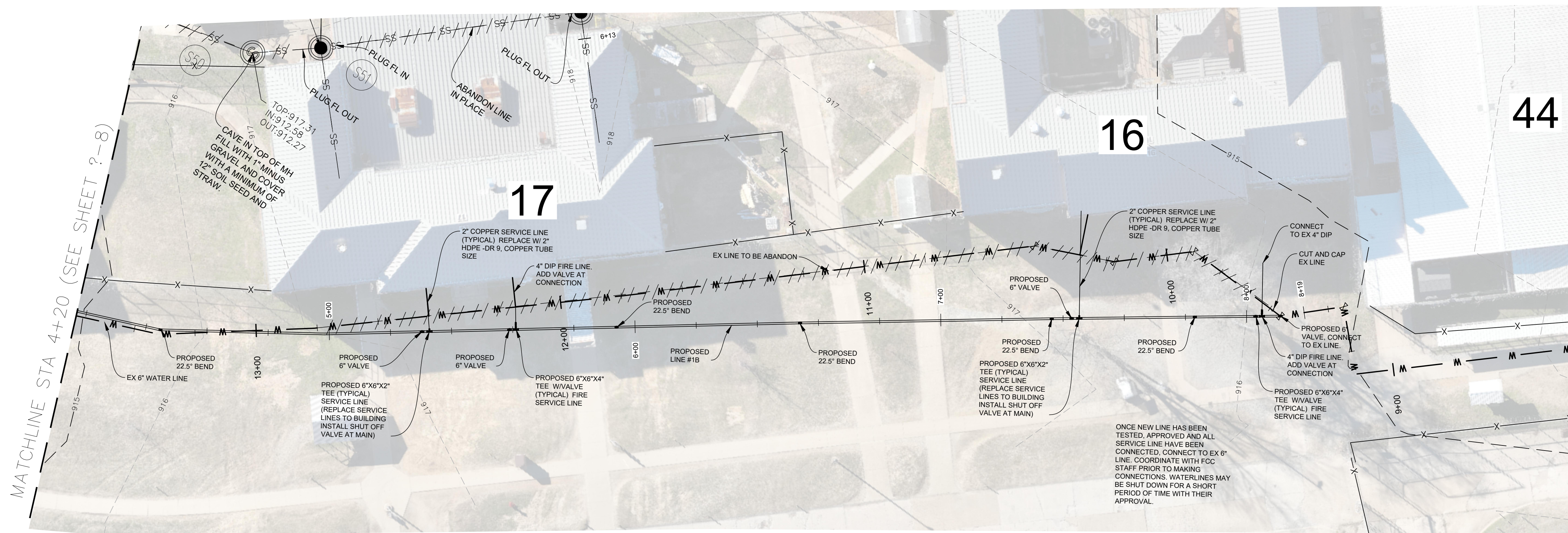
CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
WATER LINE 1B PLAN  
& PROFILE (4+20-8+10)

SHEET NUMBER:

**WL-3**

SHEET 12 OF 16  
DATE: 7/31/2024



**NOTE:**  
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**PROFILE**  
SCALE: 1" = 20' HORZ.  
1" = 5' VERT.

**"WATER LINE 1B"**

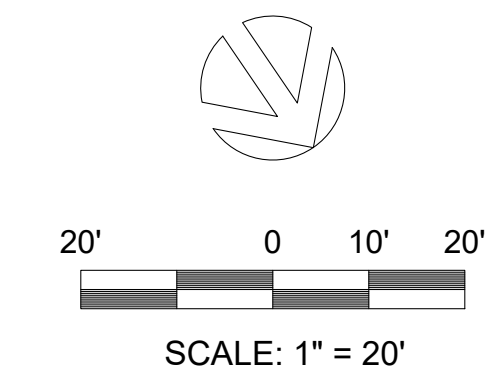
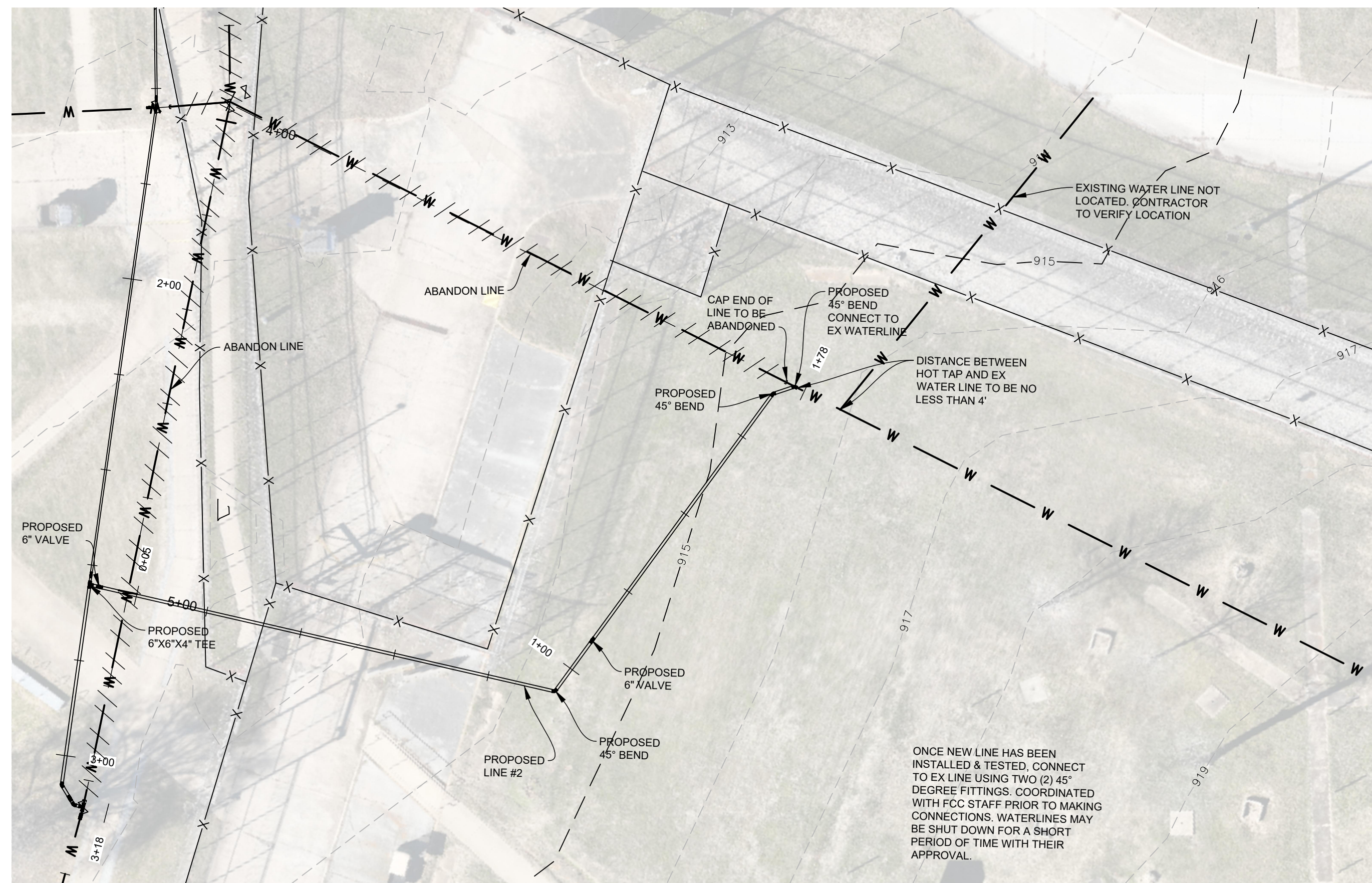
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BEFORE YOU DIG - DRILL - BLAST

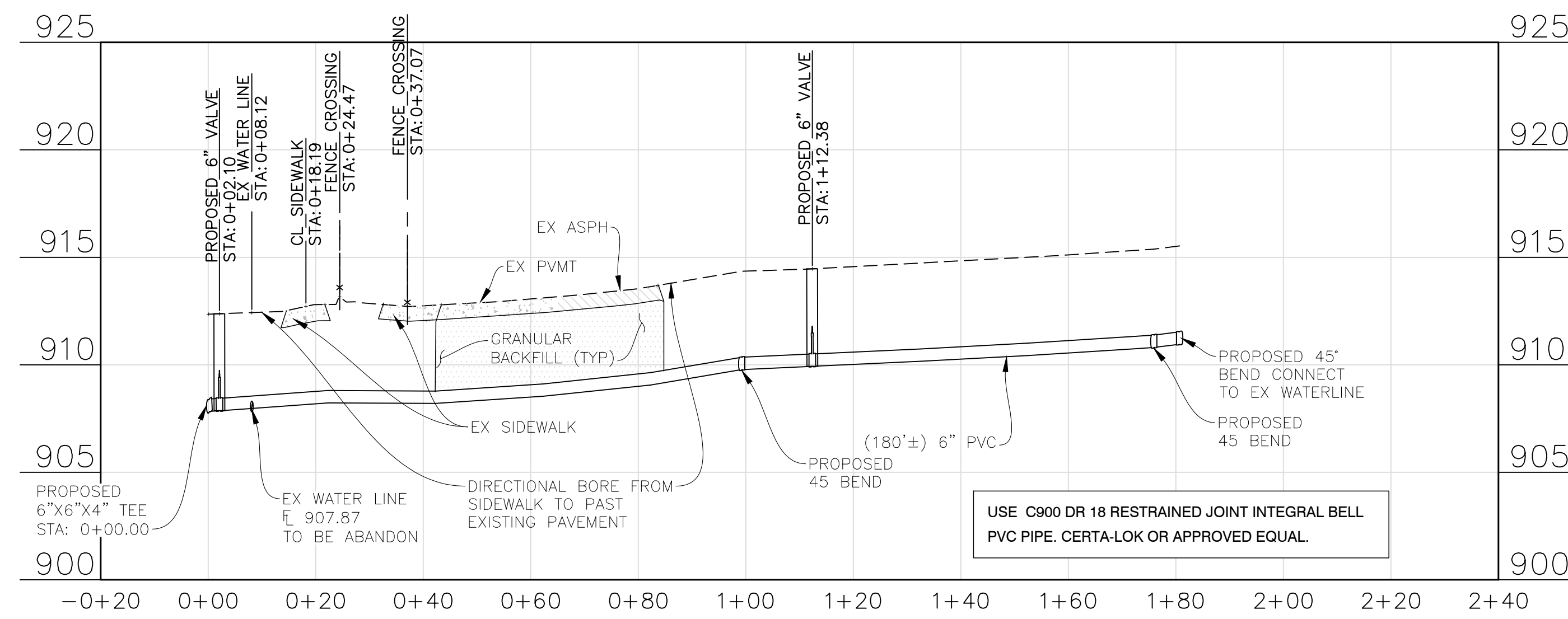


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ONCE NEW LINE HAS BEEN INSTALLED & TESTED, CONNECT TO EX LINE USING TWO (2) 45° DEGREE FITTINGS. COORDINATED WITH FCC STAFF PRIOR TO MAKING CONNECTIONS. WATERLINES MAY BE SHUT DOWN FOR A SHORT PERIOD OF TIME WITH THEIR APPROVAL.




**PROFILE**  
SCALE: 1" = 20' HORZ.  
1" = 5' VERT.

**"WATER LINE 2"**

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STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-20010019542  
EXPIRATION DATE: 12/31/25

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PROJECT # C2318-02  
SITE # 7008  
FACILITY # 9327008150

REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
**WATER LINE 2 PLAN  
& PROFILE (0+00-1+83)**

SHEET NUMBER:

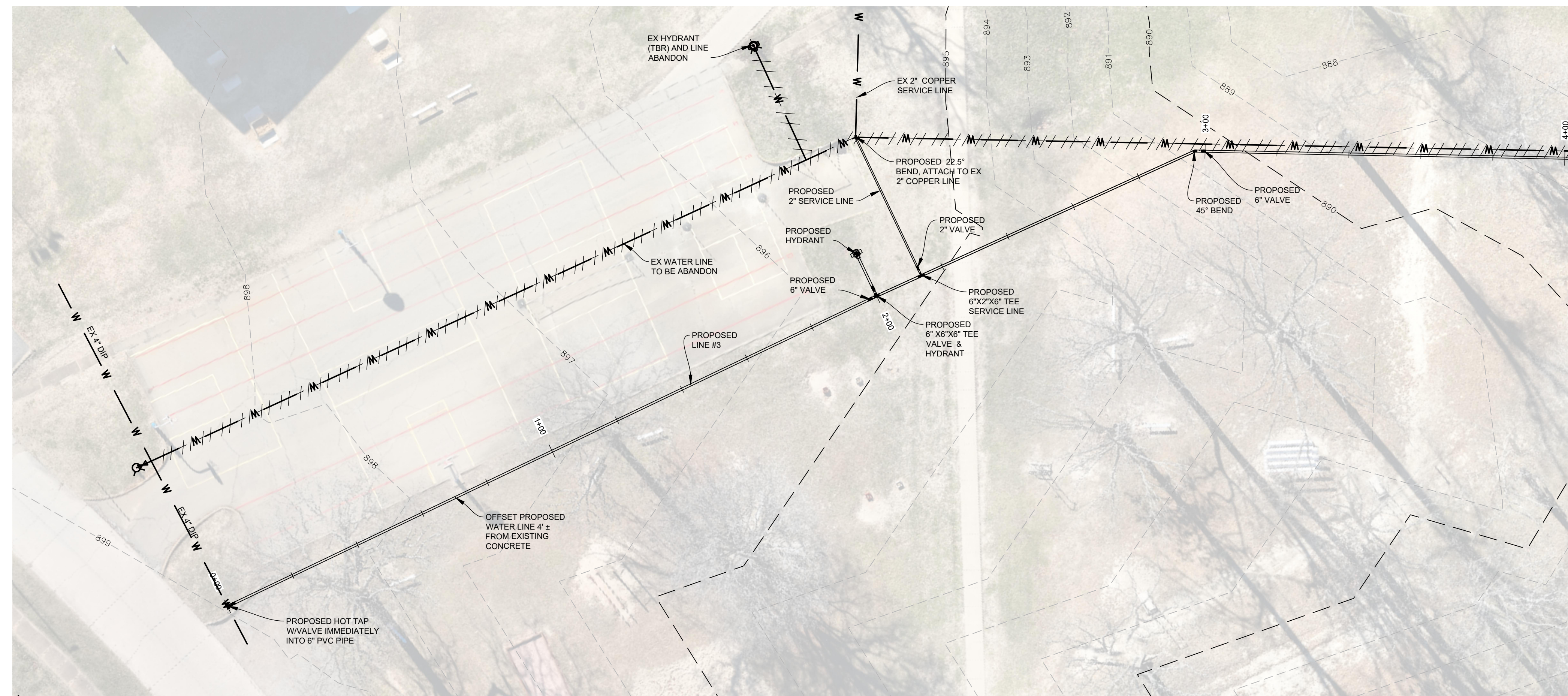
**WL-4**

SHEET 13 OF 16  
DATE: 7/31/2024





20' 0 10' 20'  
SCALE: 1" = 20'



MATCHLINE STA 4+00 (SEE SHEET WL-6)



NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-2003015031  
EXPIRATION DATE: 12/31/25

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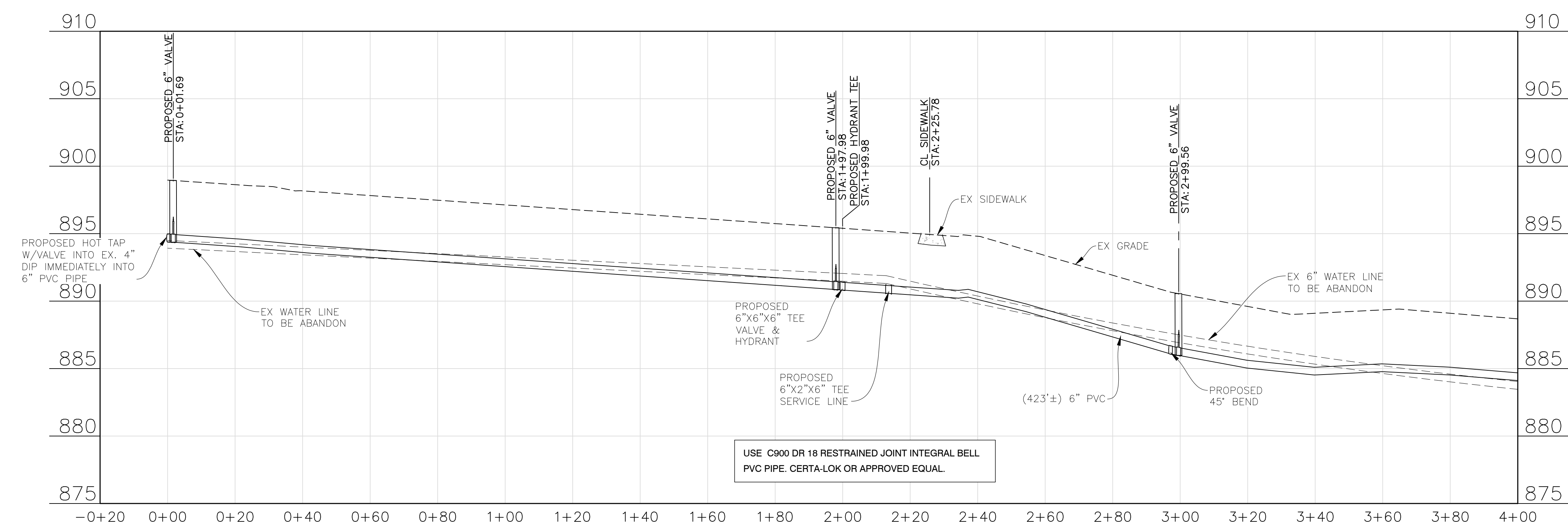
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DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
WATER LINE 3A PLAN  
& PROFILE (0+00-4+00)

SHEET NUMBER:

**WL-5**

SHEET 14 OF 16  
DATE: 7/31/2024



**PROFILE**  
SCALE: 1" = 20' HORZ.  
1" = 5' VERT.

"WATER LINE 3"

USE C900 DR 18 RESTRAINED JOINT INTEGRAL BELL  
PVC PIPE, CERTA-LOK OR APPROVED EQUAL.

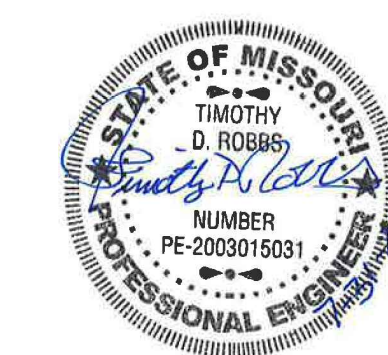
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BEFORE YOU  
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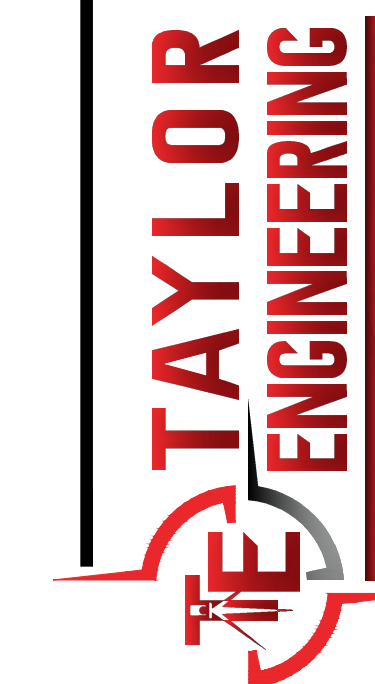
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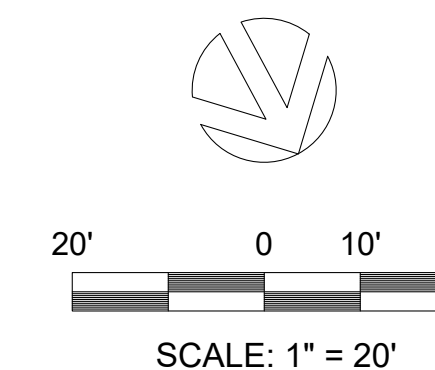
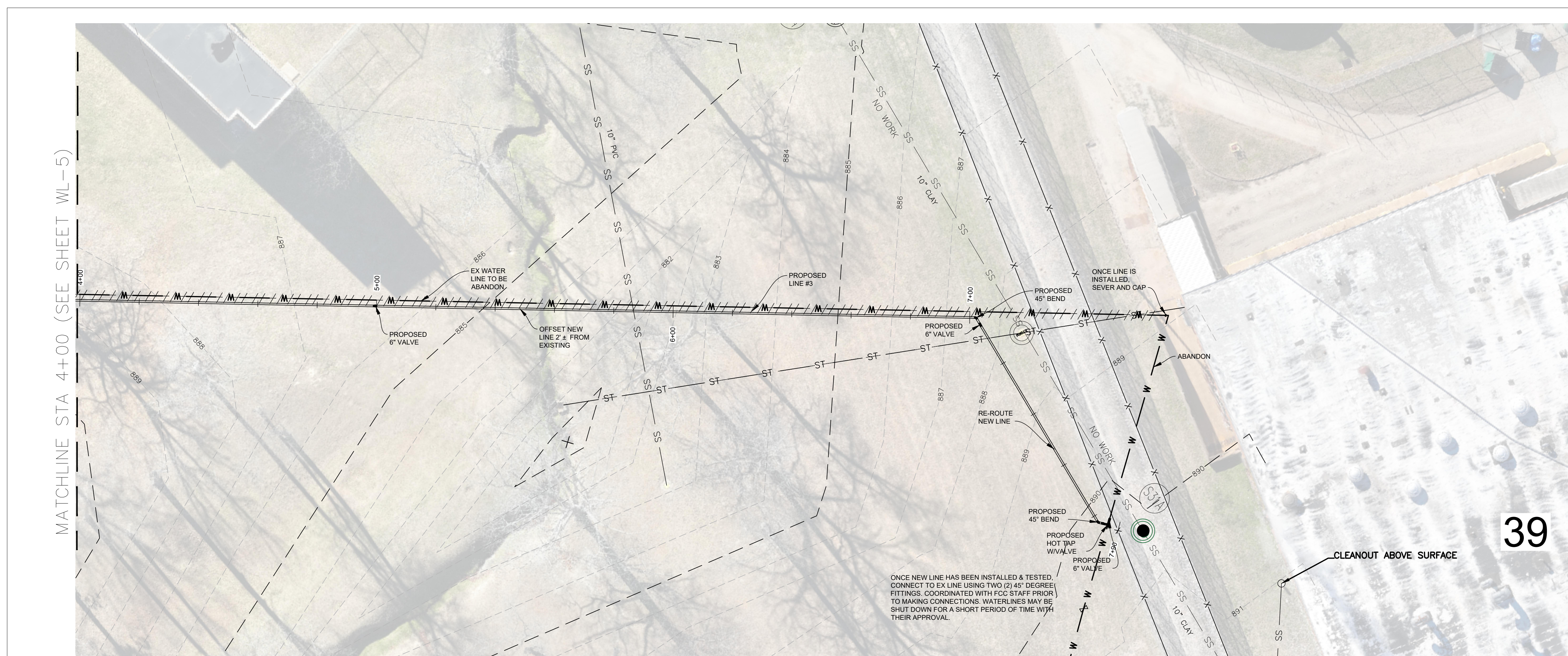
CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
WATER LINE 3B PLAN  
& PROFILE (4+00-7+90)

SHEET NUMBER:

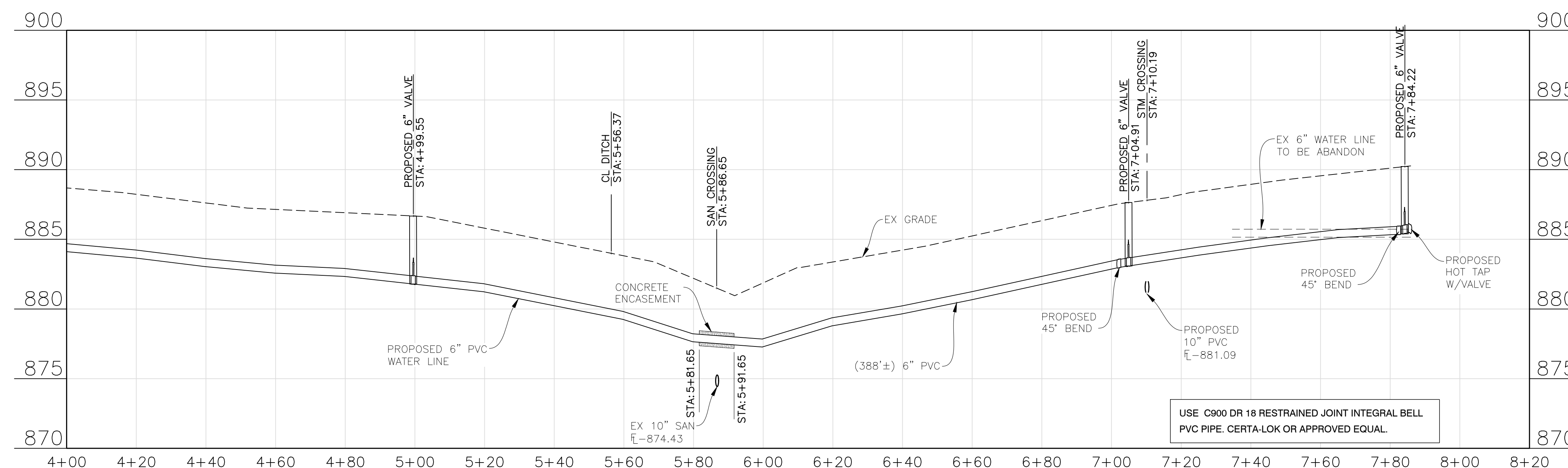
**WL-6**

SHEET 15 OF 16  
DATE: 7/31/2024



MATCHLINE STA 4+00 (SEE SHEET WL-5)

39



**PROFILE**  
SCALE: 1" = 20' HORIZ.  
1" = 5' VERT.

**"WATER LINE 3"**

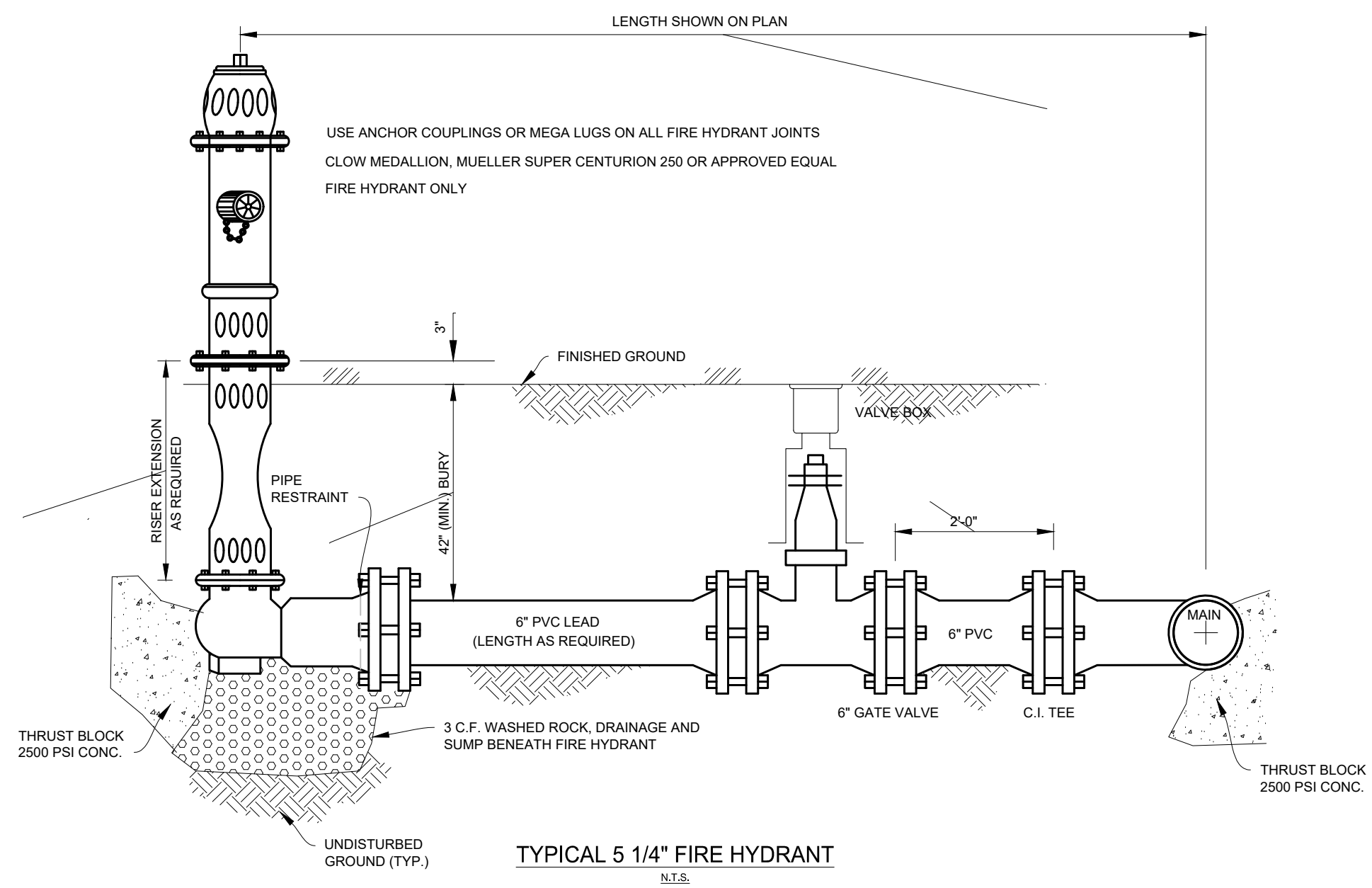
**NOTE:**  
A WATER LINE LOCATIONS WERE DETERMINED USING STAFF KNOWLEDGE AND EXISTING DRAWINGS. AS A RESULT, ACTUAL WATER LINE LOCATIONS MAY VARY FROM SHOWN LOCATIONS.

**BEFORE YOU DIG - DRILL - BLAST**

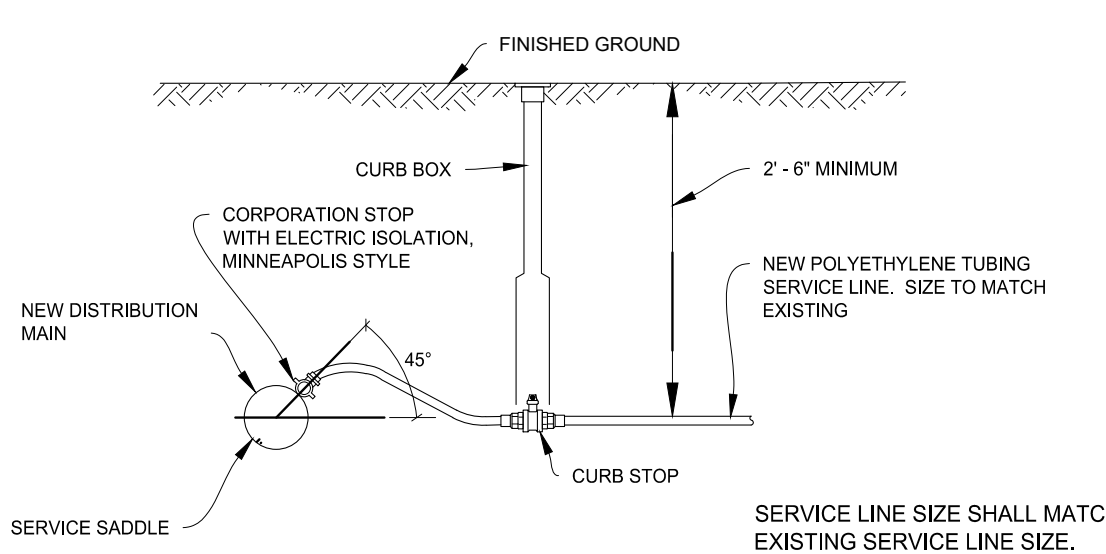
THE UTILITIES AS SHOWN ON THIS DRAWING WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THIS IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE.

**NOTE:**  
CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL STATE OWNED UTILITIES.

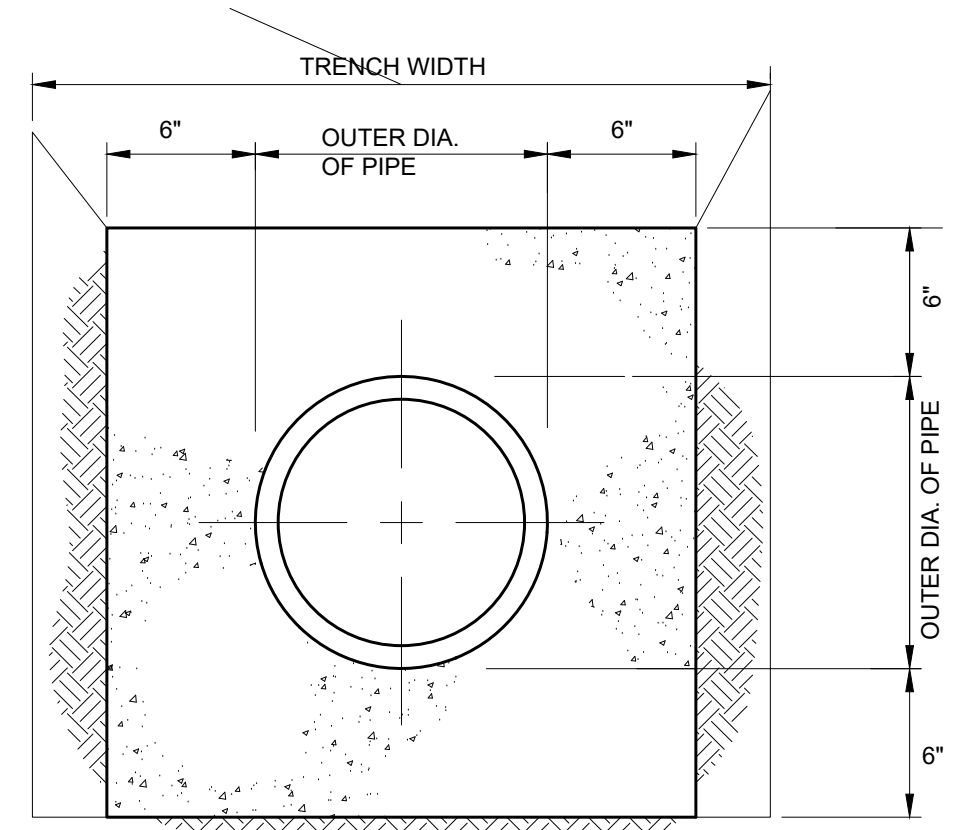




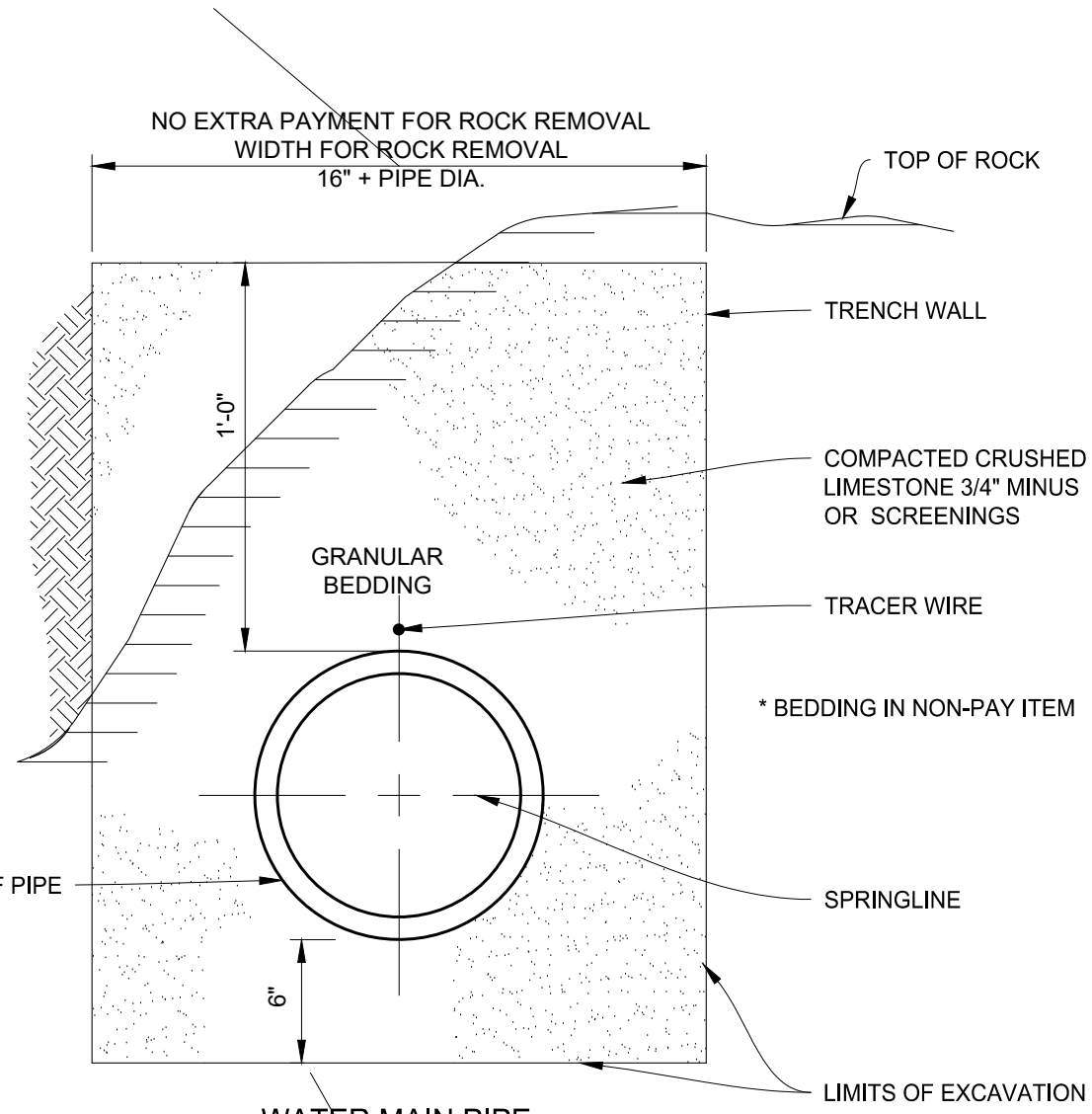
TYPICAL 5 1/4" FIRE HYDRANT  
N.T.S.



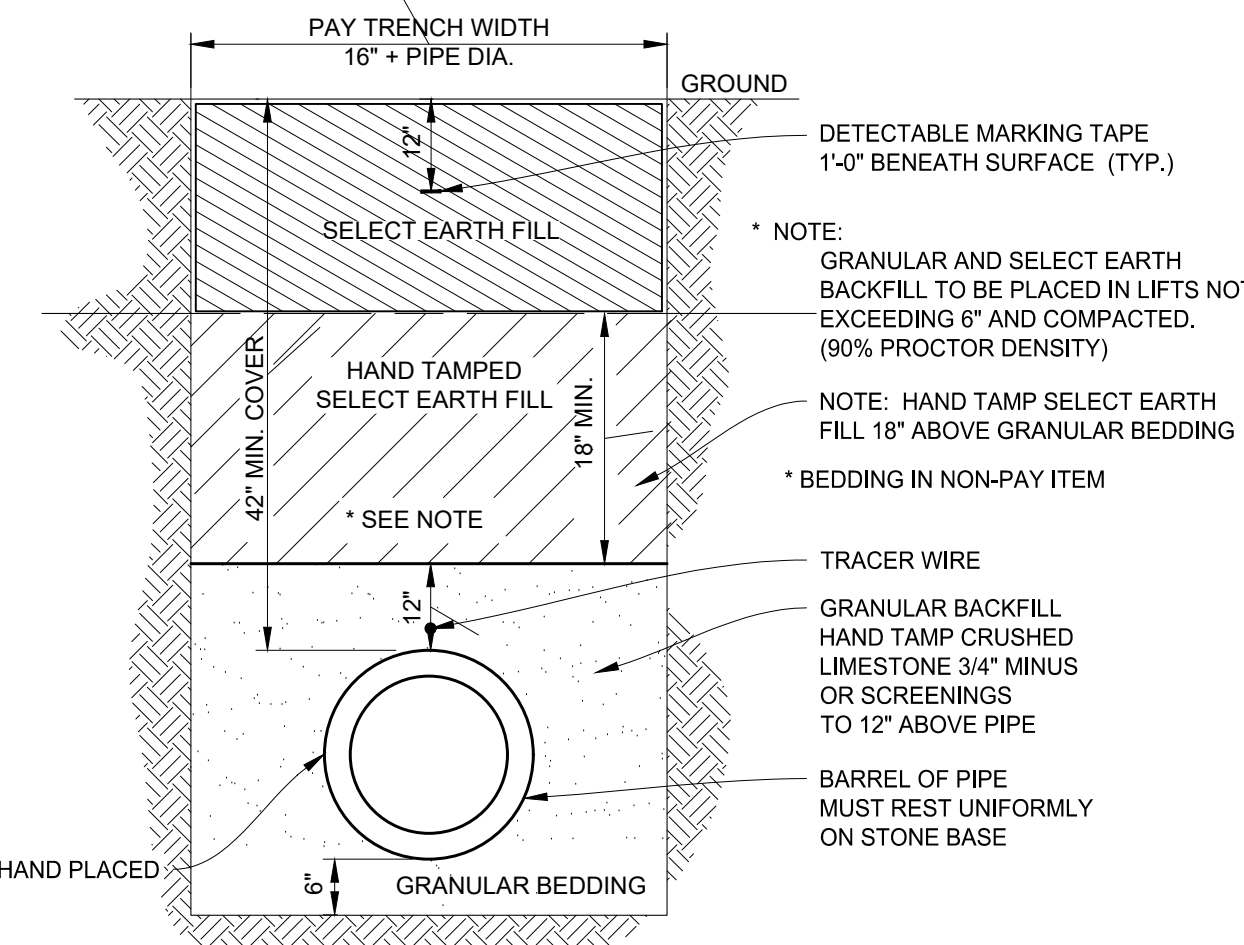
SERVICE LINE INSTALLATION LAYOUT DETAIL  
N.T.S.



TYPICAL PIPE ENCASEMENT  
N.T.S.  
NOTE: CONTRACTOR MAY PLACE ENCASEMENT TO TRENCH WALL. NO EXTRA PAYMENT FOR THIS OPTION. EXTRA DEPTH OF EXCAVATION SHOULD BE INCLUDED IN PRICE BID FOR CONCRETE ENCASEMENT.



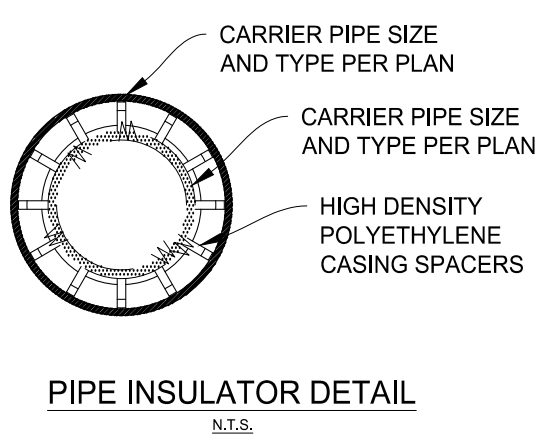
WATER MAIN PIPE BEDDING IN ROCK  
N.T.S.



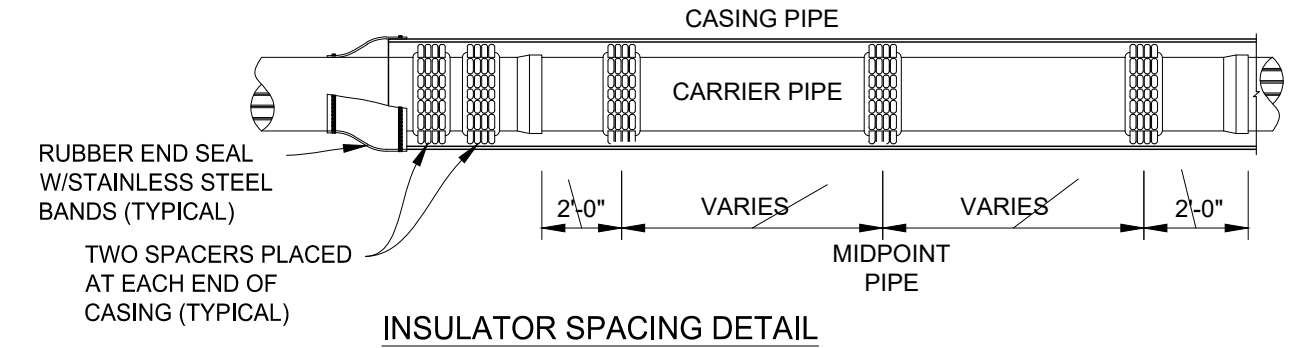
PIPE BEDDING IN EARTH WATER MAIN ONLY  
N.T.S.

TABLE OF MINIMUM WALL THICKNESS FOR STEEL CASING PIPE

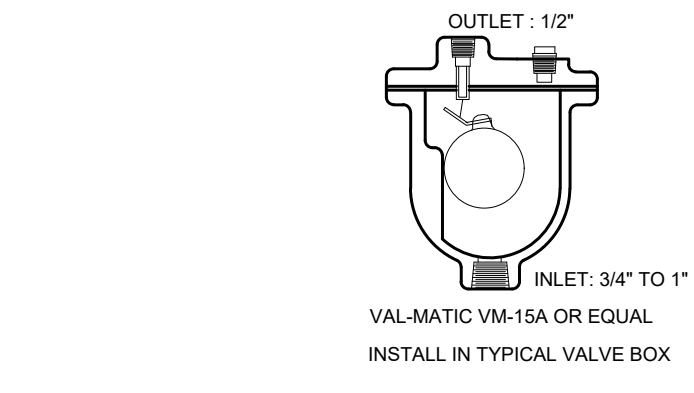
CARRIER PIPE	CASING PIPE	NOMINAL THICKNESS
4	8	0.188 INCH
6	12	0.188 INCH
8	16	0.188 INCH
10	20	0.250 INCH
12	24	0.281 INCH
14	27	0.312 INCH
16	30	0.312 INCH
18	30	0.312 INCH
20	36	0.344 INCH
24	36	0.344 INCH



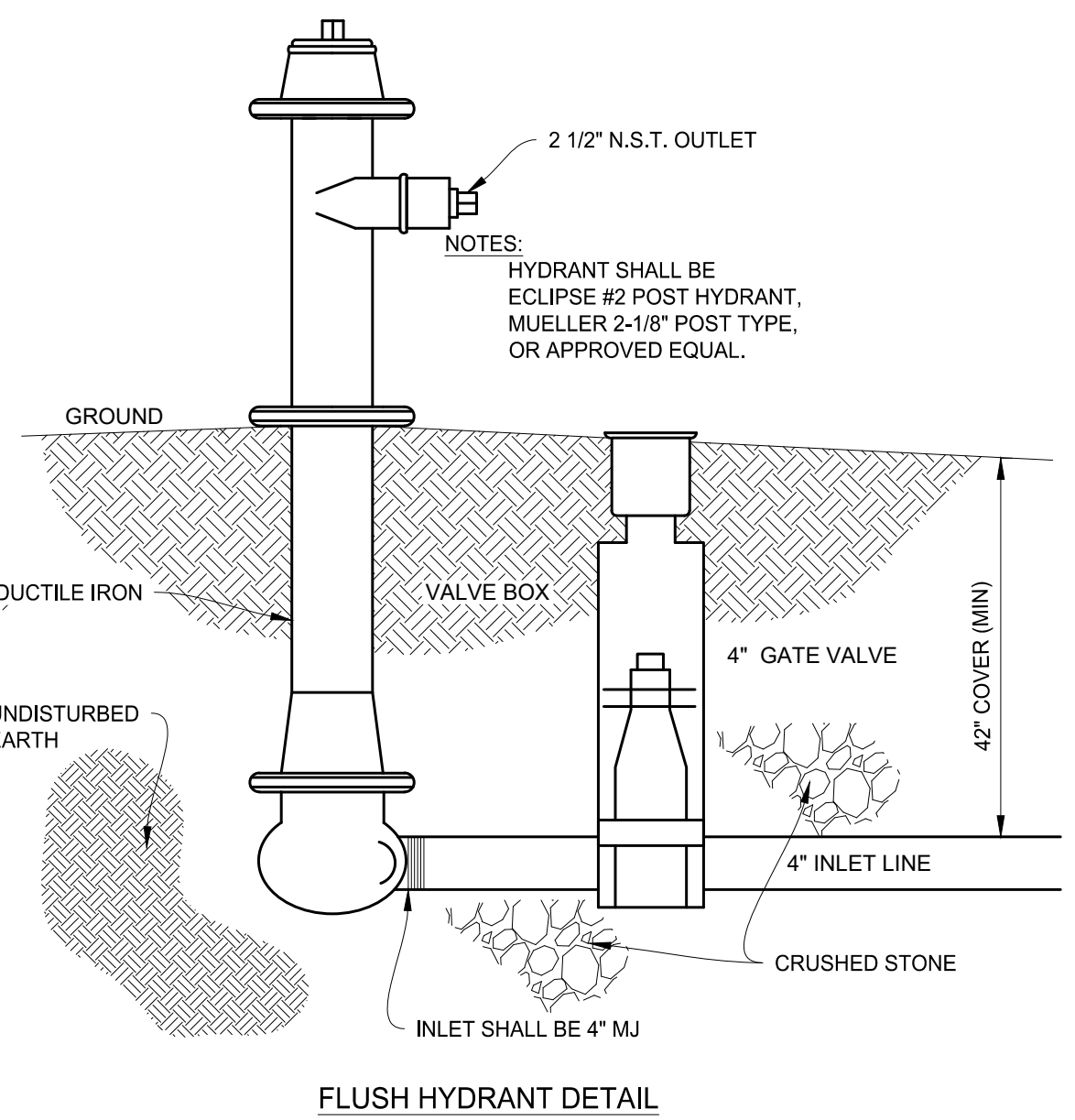
PIPE INSULATOR DETAIL  
N.T.S.



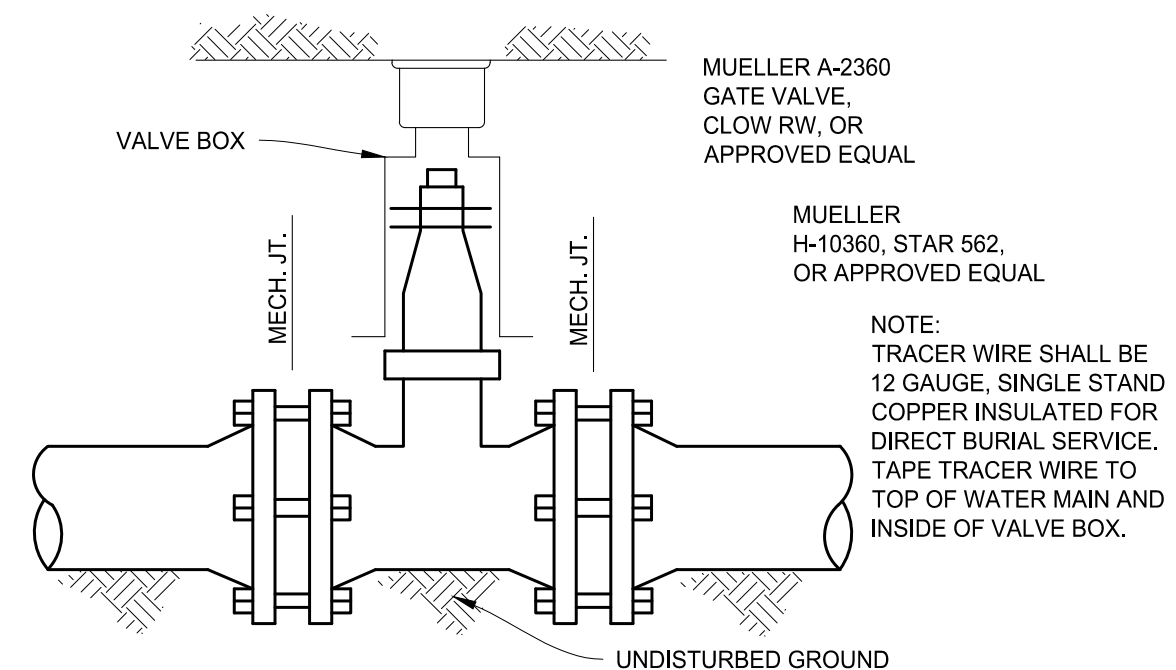
INSULATOR SPACING DETAIL  
N.T.S.



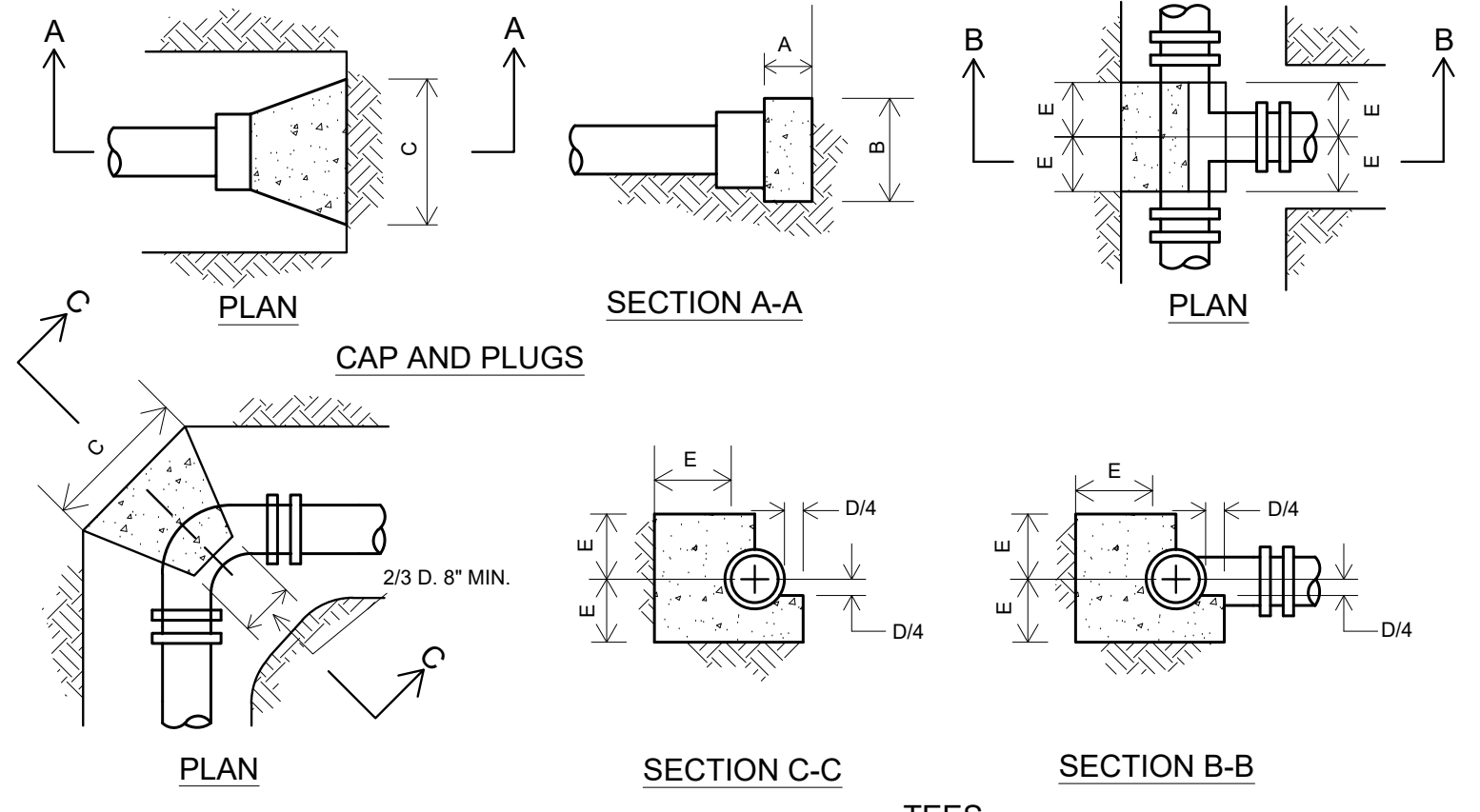
AUTOMATIC AIR RELEASE BALL TYPE VALVE  
N.T.S.



FLUSH HYDRANT DETAIL  
N.T.S.



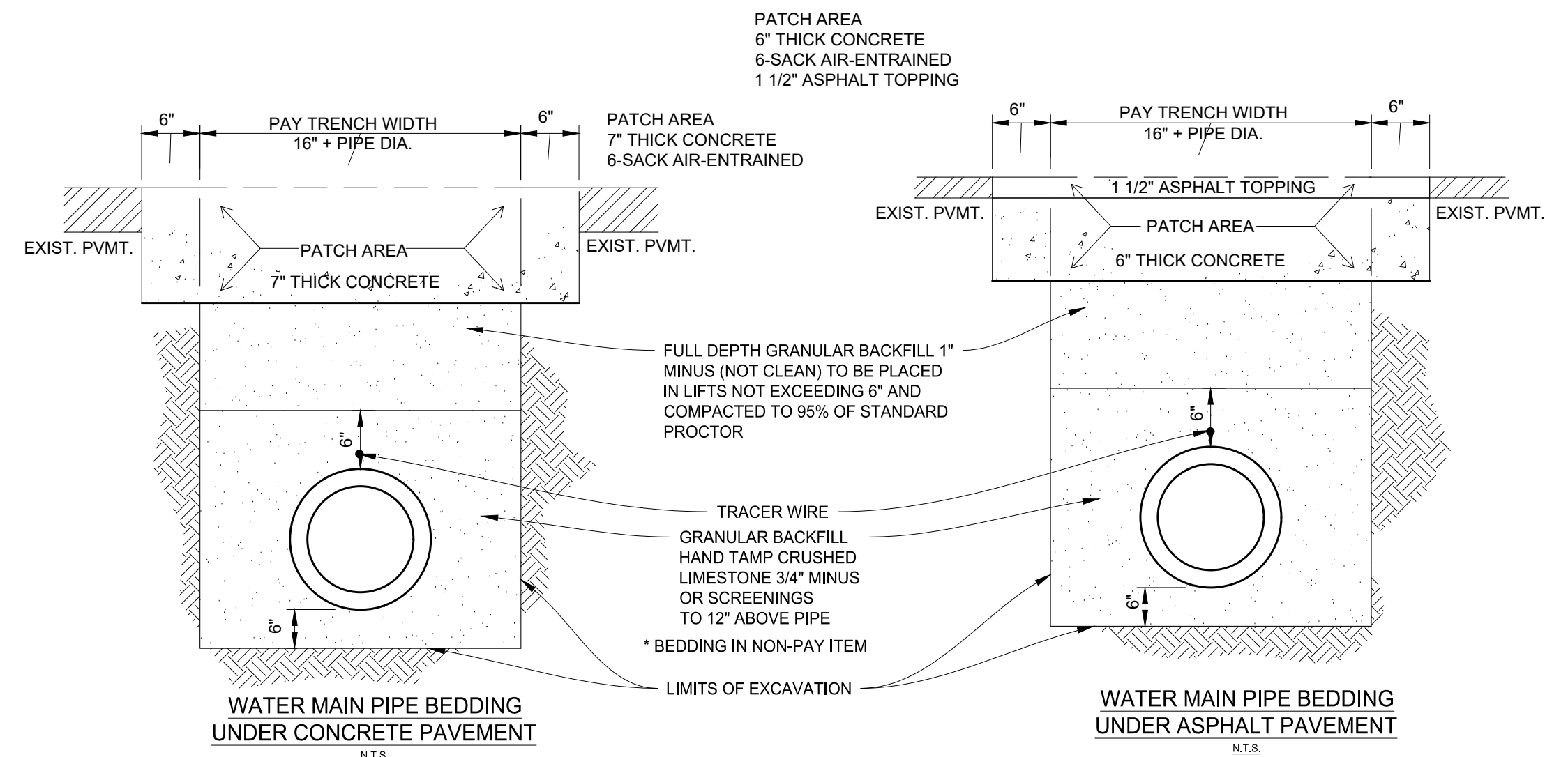
TYPICAL GATE VALVE  
N.T.S.



THRUST BLOCK DETAILS  
N.T.S.

D	A	B	C	E
4" & 6"	8"	11"	1'-3"	8"
8"	9"	1'-2"	1'-8"	9"
10"	10"	1'-6"	2'-1"	10"

- WATERLINE NOTES:
- USE MEGA LUG/ANCHOR COUPLINGS ON ALL FITTINGS AND CONCRETE THRUST BLOCKS. NO BUILDINGS CAN BE TIED INTO WATER MAIN UNTIL ALL WATER MAIN IS INSTALLED AND TESTED.
  - WATER MAINS TO HAVE MINIMUM COVER OF 42 INCHES
  - TRACER WIRE SHALL BE 12 GAUGE, SINGLE STRAND COPPER INSULATED FOR DIRECT BURIAL SERVICE. TAPE TRACER WIRE TO TOP OF WATER MAIN, VALVES, FITTINGS, FIRE HYDRANTS AND APPURTENANCES FOR FUTURE LOCATION OF THE WATER MAIN. THE TRACER WIRE SHALL BE BROUGHT TO THE TOP OF ALL VALVE BOXES ALONG THE OUTSIDE OF THE VALVE BOX AND THREADED THROUGH A HOLE DRILLED THROUGH THE SIDEWALL OF THE VALVE BOX TO ACCESS THE WIRE FROM THE INSIDE AT THE TOP OF THE VALVE BOX.
  - TAPPING SLEEVES SHALL BE FORD GRADE 18-8 TYPE 304 STAINLESS STEEL.
  - UPON COMPLETION OF INSTALLATION WATER MAIN MUST BE PRESSURIZED TO 150 PSI AND HELD FOR 2 HOURS. TESTING MUST BE WITNESSED BY TAYLOR ENGINEERING.
  - SERVICE LINES SHALL BE A 3/4" CORP STOP WITH BLUE POLY WITH VIRGIN RESIN LINING OR SIZED ACCORDING TO EXISTING SERVICE LINE SIZE. WATER PIPE SHALL BE AWWA RESTRAINED JOINT C-900, DR-18 PVC, CLASS 200. ALL SERVICE LINES CROSSING STREETS SHALL BE ENCASED IN SCHEDULE 40 PVC 3 TIMES THE OD OF THE WATER MAIN PIPE WITHIN THE ROAD RIGHT-OF-WAY.
  - THE WATER MAIN SHALL BE DISINFECTED, HYDROSTATIC PRESSURE TESTED, AND WATER SAMPLES TESTED FOR BACTERIA IN ACCORDANCE WITH THE MISSOURI DEPT. OF NATURAL RESOURCES REQUIREMENTS. THE APPROPRIATE CITY INSPECTOR MUST BE PRESENT TO OBSERVE AND APPROVE ALL TESTING.
  - FIRE HYDRANT SHALL BE INSTALLED WITH ANCHOR COUPLINGS OR FOSTER ADAPTERS IN ACCORDANCE WITH THE STATE OF MISSOURI SPECIFICATIONS. (CONTRACTOR SHALL VERIFY STATE REQUIREMENTS PRIOR TO ORDERING MATERIAL.) GATE VALVES, VALVE BOX RISER, AND FIRE HYDRANTS TYPE AND MANUFACTURER SHALL BE IN ACCORDANCE WITH THE STATE OF MISSOURI SPECIFICATIONS.



WATER MAIN PIPE BEDDING UNDER CONCRETE PAVEMENT  
N.T.S.

WATER MAIN PIPE BEDDING UNDER ASPHALT PAVEMENT  
N.T.S.



NAME: TIMOTHY D. ROBBS  
DISCIPLINE: CIVIL  
LICENSE NO: PE-20010019542  
EXPIRATION DATE: 12/31/25

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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

WATER & SEWER  
IMPROVEMENTS  
1430 DOUBET ROAD  
FARMINGTON, MO 63640

PROJECT # C2318-02  
SITE # 7008  
FACILITY # 9327008150

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_

SHEET TITLE:  
**WATER  
GENERAL DETAILS**

SHEET NUMBER:

**WL-7**

SHEET 16 OF 16  
DATE: 7/31/2024