



NO.	DATE	REVISIONS			DATE	APPR'D

PROJECT: 467		DATE: 3/26/2020	
SCALE: 1" = 50'			
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			

CT

CANN-TECH, LLC
Engineers · Planners · Managers
1100 Glensboro Road
Lawrenceburg, KY 40342
Phone (502) 859-0907
Fax (502) 859-0668

LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

LEAFDALE ROAD
STATION 0+00 TO STATION 4+53

SHEET 21
OF 44



NOTES:
1. STATION 0+00 STARTS AT THE INTERSECTION OF HWY 31E AND AIRLINE ROAD. STATIONING RUNS LEFT AWAY FROM HWY 31E.
2. STATION MARKS ARE EVERY 100 FEET ALONG THE CENTER LINE OF THE ROAD.

RECORD DRAWINGS	
DATE:	2/17/2021
REVISED BY:	JH
DATE REVISED:	2/17/2021

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT:	467	DATE:	3/26/2020
SCALE:	1" = 50'		
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			

CT

CANN-TECH, LLC

Engineers · Planners · Managers

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Lawrenceburg, KY 40342

Phone (502) 859-0907

Fax (502) 859-0668

LCDW 2020 WATER IMPROVEMENTS

LARUE COUNTY WATER DISTRICT

LARUE COUNTY, KENTUCKY

AIRLINE ROAD

STATION 0+00 TO STATION 14+00



NOTES:
1. STATION 0+00 STARTS AT THE INTERSECTION OF HWY 31E AND AIRLINE ROAD. STATIONING RUNS LEFT AWAY FROM HWY 31E.
2. STATION MARKS ARE EVERY 100 FEET ALONG THE CENTER LINE OF THE ROAD.

RECORD DRAWINGS	
DATE:	2/17/2021
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DATE REVISED:	2/17/2021

NO.	DATE	REVISIONS		DATE	APPR'D

PROJECT: 467		DATE: 3/26/2020	
SCALE: 1" = 50'			
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			

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Lawrenceburg, KY 40342

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LCWD 2020 WATER IMPROVEMENTS

LARUE COUNTY WATER DISTRICT

LARUE COUNTY, KENTUCKY

AIRLINE ROAD

STATION 14+00 TO STATION 28+00

SHEET 23

OF 44



NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467	DATE: 3/26/2020
SCALE: 1" = 50'	
DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	

CT

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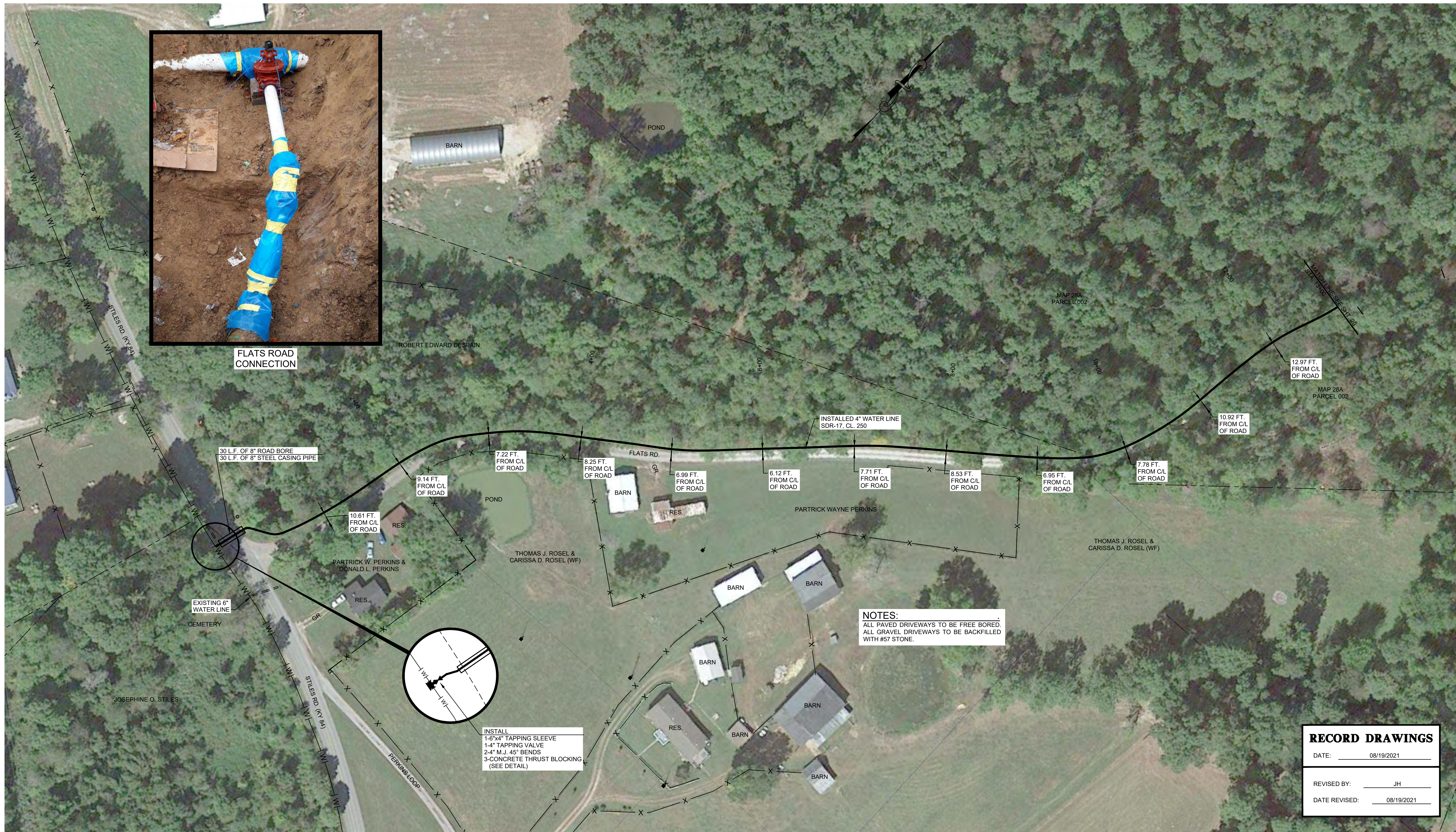
1100 Glensboro Road
Lawrenceburg, KY 40342

Phone (502) 859-0907
Fax (502) 859-0668

LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

AIRLINE ROAD
STATION 28+00 TO STATION 37+40

SHEET 24
OF 44



NO.	DATE	REVISIONS			DATE	APPR'D

PROJECT: 467			DATE: 3/26/2020		
SCALE: 1" = 50'					
DESIGNED BY:	MAB				
DRAWN BY:	JH				
CHECKED BY:	MAB				
RECORD DRAWINGS					

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LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

FLATS ROAD
STATION 0+00 TO STATION 13+00

SHEET
28
OF
44



NO.	DATE	REVISIONS		DATE	APPR'D

PROJECT: 467			DATE: 3/26/2020		
SCALE: 1" = 50'					
DESIGNED BY:	MAB				
DRAWN BY:	JH				
CHECKED BY:	MAB				
RECORD DRAWINGS					

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LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

FLATS ROAD
STATION 13+00 TO STATION 26+00



NOTES:
ALL PAVED DRIVEWAYS TO BE FREE BORED.
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED
WITH #57 STONE.

RECORD DRAWINGS	
DATE:	08/19/2021
REVISED BY:	JH
DATE REVISED:	08/19/2021

NO.	DATE	REVISIONS		DATE	APPR'D

PROJECT: 467		DATE: 3/26/2020	
SCALE: 1" = 50'			
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			

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Lawrenceburg, KY 40342

Phone (502) 859-0907
Fax (502) 859-0668

LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

FLATS ROAD
STATION 26+00 TO STATION 39+00

SHEET
30
OF
44



NO.	DATE	REVISIONS		DATE	APPR'D

PROJECT: 467		DATE: 3/26/2020	
SCALE: 1" = 50'			
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			

CT

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Engineers · Planners · Managers

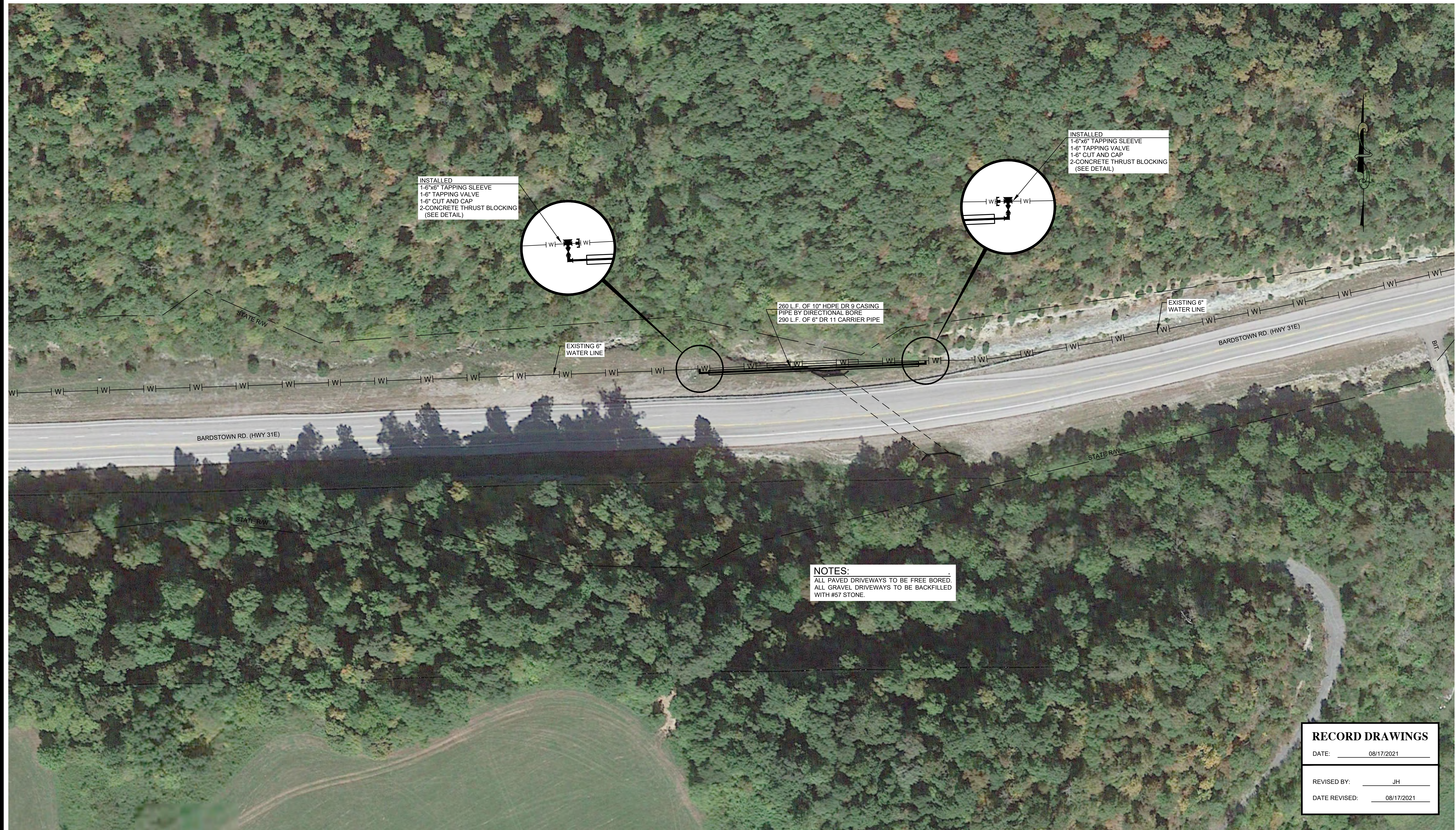
1100 Glensboro Road
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Fax (502) 859-0668

LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

FLATS ROAD
STATION 39+00 TO STATION 52+24

SHEET
31
OF
44



INSTALLED
1-6"x6" TAPPING SLEEVE
1-6" TAPPING VALVE
1-6" CUT AND CAP
2-CONCRETE THRUST BLOCKING
(SEE DETAIL)

INSTALLED
1-6"x6" TAPPING SLEEVE
1-6" TAPPING VALVE
1-6" CUT AND CAP
2-CONCRETE THRUST BLOCKING
(SEE DETAIL)

260 L.F. OF 10" HDPE DR 9 CASING
PIPE BY DIRECTIONAL BORE
290 L.F. OF 6" DR 11 CARRIER PIPE

EXISTING 6"
WATER LINE

EXISTING 6"
WATER LINE

BARDSTOWN RD. (HWY 31E)

NOTES:
ALL PAVED DRIVEWAYS TO BE FREE BORED.
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED
WITH #57 STONE.

RECORD DRAWINGS	
DATE:	08/17/2021
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DATE REVISED:	08/17/2021

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT:	467	DATE:	3/26/2020
SCALE:	1" = 50'		
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			

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Lawrenceburg, KY 40342

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LCWD 2020 WATER IMPROVEMENTS

LARUE COUNTY WATER DISTRICT

LARUE COUNTY, KENTUCKY

BARDSTOWN ROAD (HWY 31E)

STATION 0+00 TO STATION 2+90



						PROJECT: 467	DATE: 3/26/2020	
						SCALE: 1" = 50'		
						DESIGNED BY:	MAB	
						DRAWN BY:	JH	
						CHECKED BY:	MAB	
NO.	DATE	REVISIONS	DATE	APPR'D	DATE	RECORD DRAWINGS		

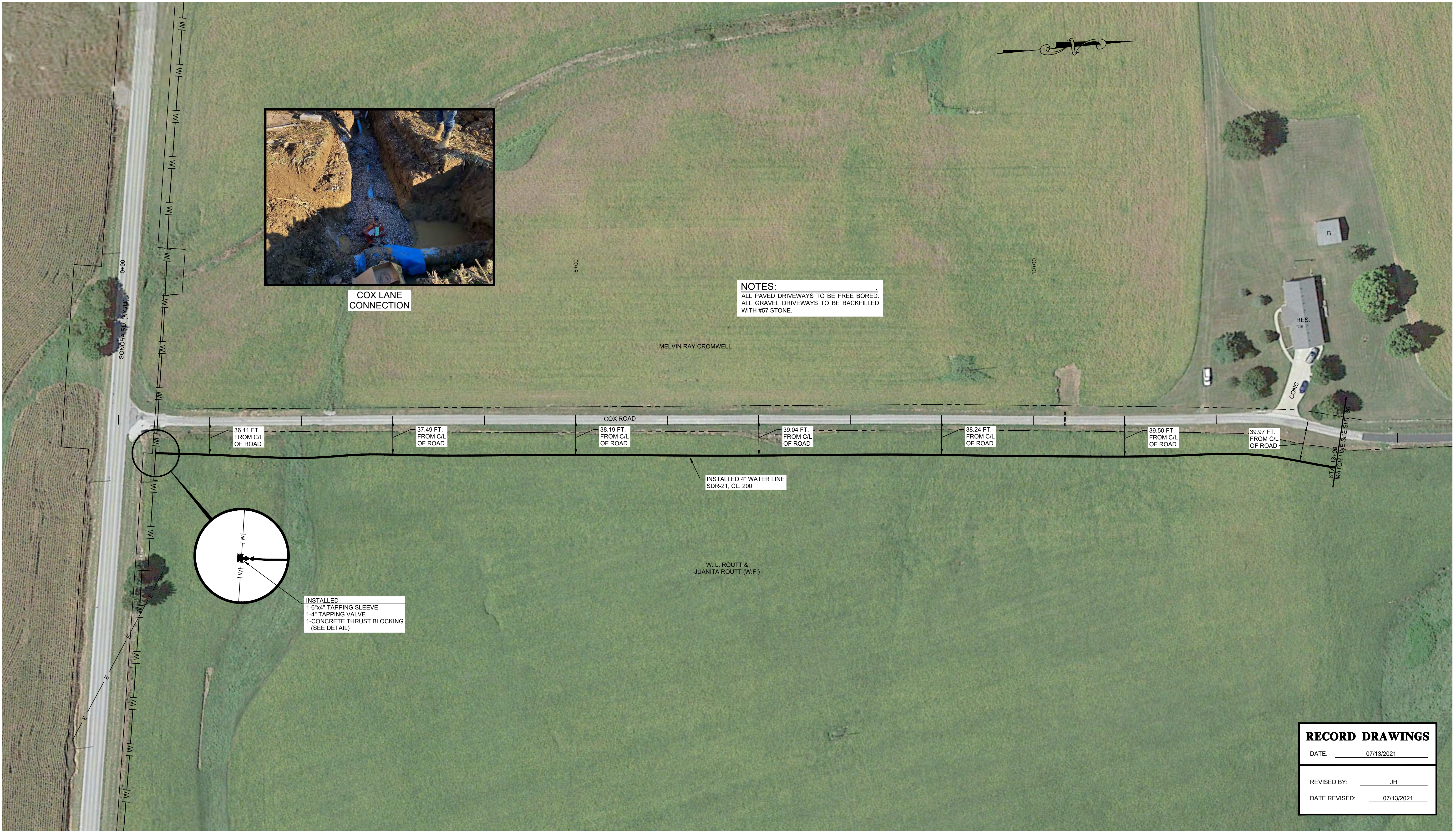
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Fax (502) 859-0668

**LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY**

SHEET
34
OF
44



NOTES:
ALL PAVED DRIVEWAYS TO BE FREE BORED.
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED
WITH #57 STONE.

COX LANE
CONNECTION

36.11 FT.
FROM C/L
OF ROAD

37.49 FT.
FROM C/L
OF ROAD

38.19 FT.
FROM C/L
OF ROAD

39.04 FT.
FROM C/L
OF ROAD

38.24 FT.
FROM C/L
OF ROAD

39.50 FT.
FROM C/L
OF ROAD

39.97 FT.
FROM C/L
OF ROAD

INSTALLED 4" WATER LINE
SDR-21, CL. 200

W. L. ROUTT &
JUANITA ROUTT (W.F.)

INSTALLED
1-6"x4" TAPPING SLEEVE
1-4" TAPPING VALVE
1-CONCRETE THRUST BLOCKING
(SEE DETAIL)

RECORD DRAWINGS

DATE: 07/13/2021

REVISED BY: JH

DATE REVISED: 07/13/2021

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467 DATE: 3/26/2020
SCALE: 1" = 50'

DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	

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LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

COX ROAD
STATION 0+00 TO STATION 13+00

SHEET
35
OF
44



NOTES:
ALL PAVED DRIVEWAYS TO BE FREE BORED.
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED
WITH #57 STONE.

RECORD DRAWINGS	
DATE:	08/17/2021
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PROJECT:	467	DATE:	3/26/2020
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RECORD DRAWINGS			

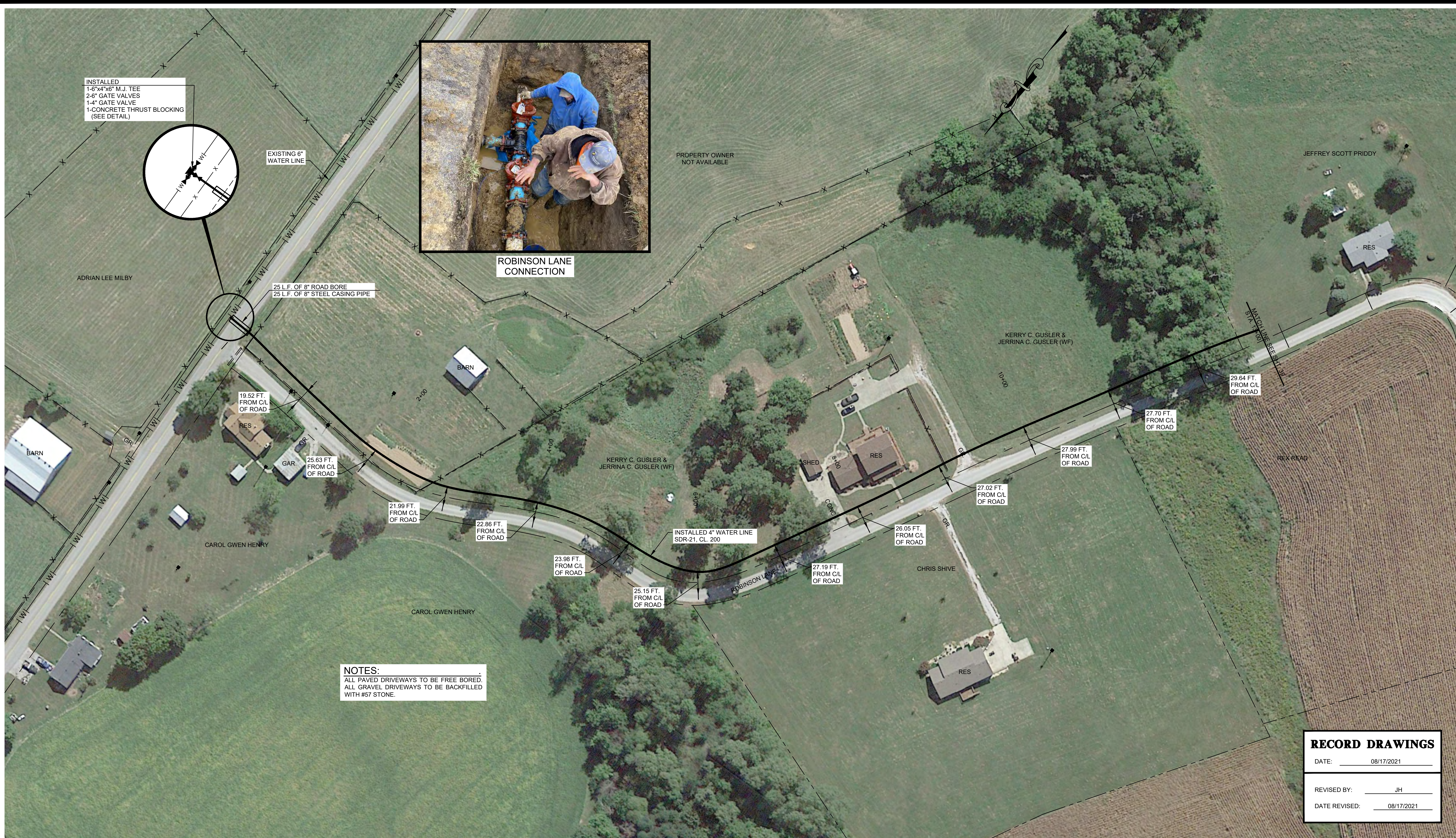
CT

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LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

COX ROAD
STATION 13+00 TO STATION 22+80

SHEET
36
OF
44




NOTES:
ALL PAVED DRIVEWAYS TO BE FREE BORED
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED
WITH #57 STONE.

RECORD DRAWINGS	
DATE:	08/17/2021
REVISED BY:	JH
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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT:	467	DATE:	3/26/2020
SCALE:	1" = 50'		
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			



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LCWD 2020 WATER IMPROVEMENTS LARUE COUNTY WATER DISTRICT LARUE COUNTY, KENTUCKY		SHEET 37 OF 44
ROBINSON LANE STATION 0+00 TO STATION 13+00		



NOTES:
ALL PAVED DRIVEWAYS TO BE FREE BORED.
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED
WITH #57 STONE.

RECORD DRAWINGS	
DATE:	08/17/2021
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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467		DATE: 3/26/2020	
SCALE: 1" = 50'			
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			

CT

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Lawrenceburg, KY 40342

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LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

ROBINSON LANE
STATION 13+00 TO STATION 21+90

SHEET
38
OF
44



						PROJECT: 467	DATE: 3/26/2020
						SCALE: 1" = 50'	
						DESIGNED BY:	MAB
						DRAWN BY:	JH
						CHECKED BY:	MAB
NO.	DATE	REVISIONS	DATE	APPR'D	DATE	RECORD DRAWINGS	

PROJECT: 467 DATE: 3/26/2020
SCALE: 1" = 50'

DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	

CT **CANN-TECH, LLC**
Engineers · Planners · Managers

1100 Glensboro Road **Phone (502) 859-0907**
Lawrenceburg, KY 40342 **Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY**

CHESTNUT FORK
STATION 0+00 TO STATION 12+00

SHEET
39
OF
44



NOTES:
ALL PAVED DRIVEWAYS TO BE FREE BORED.
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED
WITH #57 STONE.

RECORD DRAWINGS	
DATE:	07/13/2021
REVISED BY:	JH
DATE REVISED:	07/13/2021

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467	DATE: 3/26/2020
SCALE: 1" = 50'	
DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	

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1100 Glensboro Road
Lawrenceburg, KY 40342

CANN-TECH, LLC

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LCWD 2020 WATER IMPROVEMENTS LARUE COUNTY WATER DISTRICT LARUE COUNTY, KENTUCKY	
CHESTNUT FORK STATION 12+00 TO STATION 25+00	
SHEET 40	OF 44



NO.	DATE	REVISIONS		DATE	APPR'D

PROJECT: 467		DATE: 3/26/2020	
SCALE: 1" = 50'			
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			

CT

CANN-TECH, LLC
Engineers · Planners · Managers
1100 Glensboro Road
Lawrenceburg, KY 40342

Phone (502) 859-0907
Fax (502) 859-0668

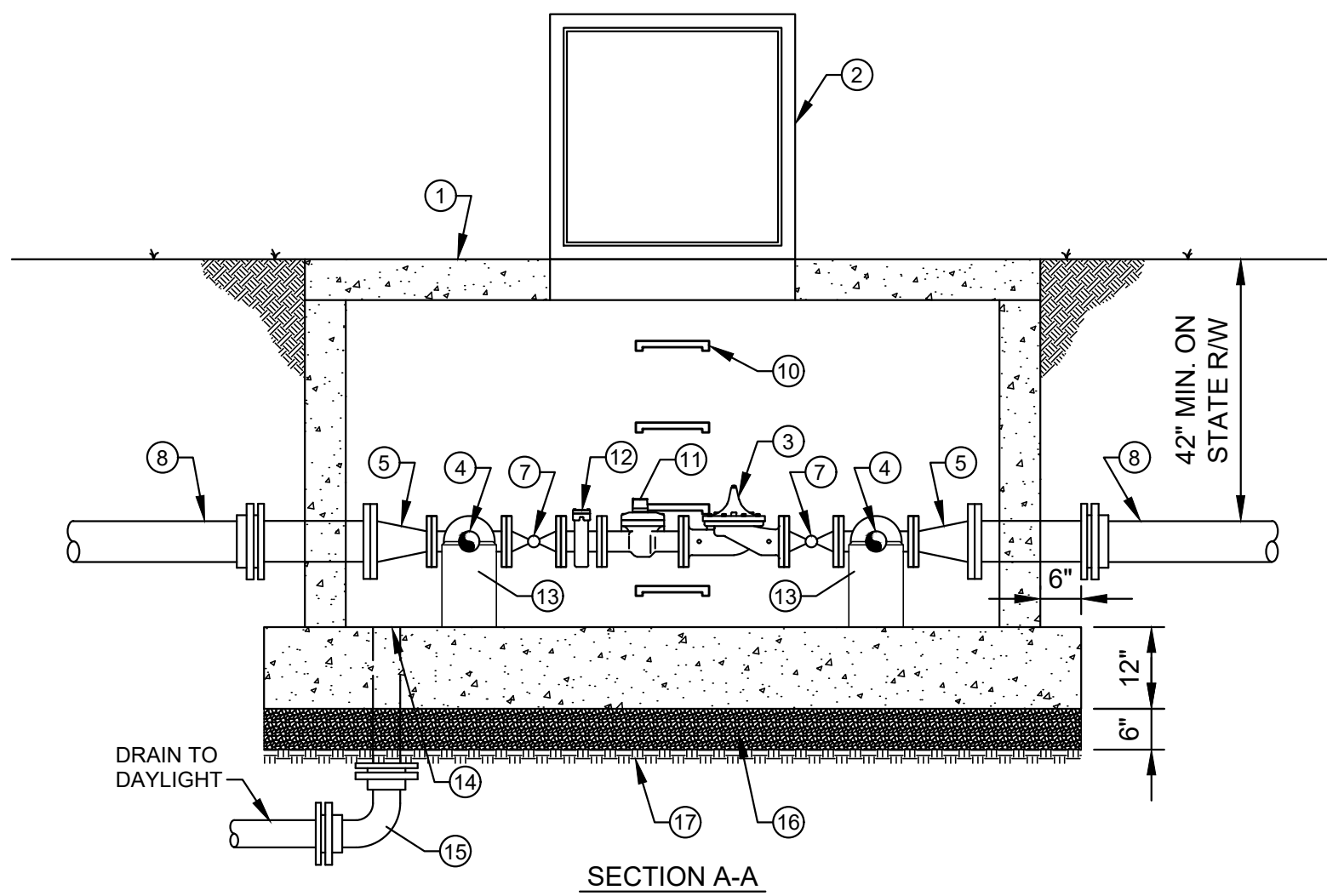
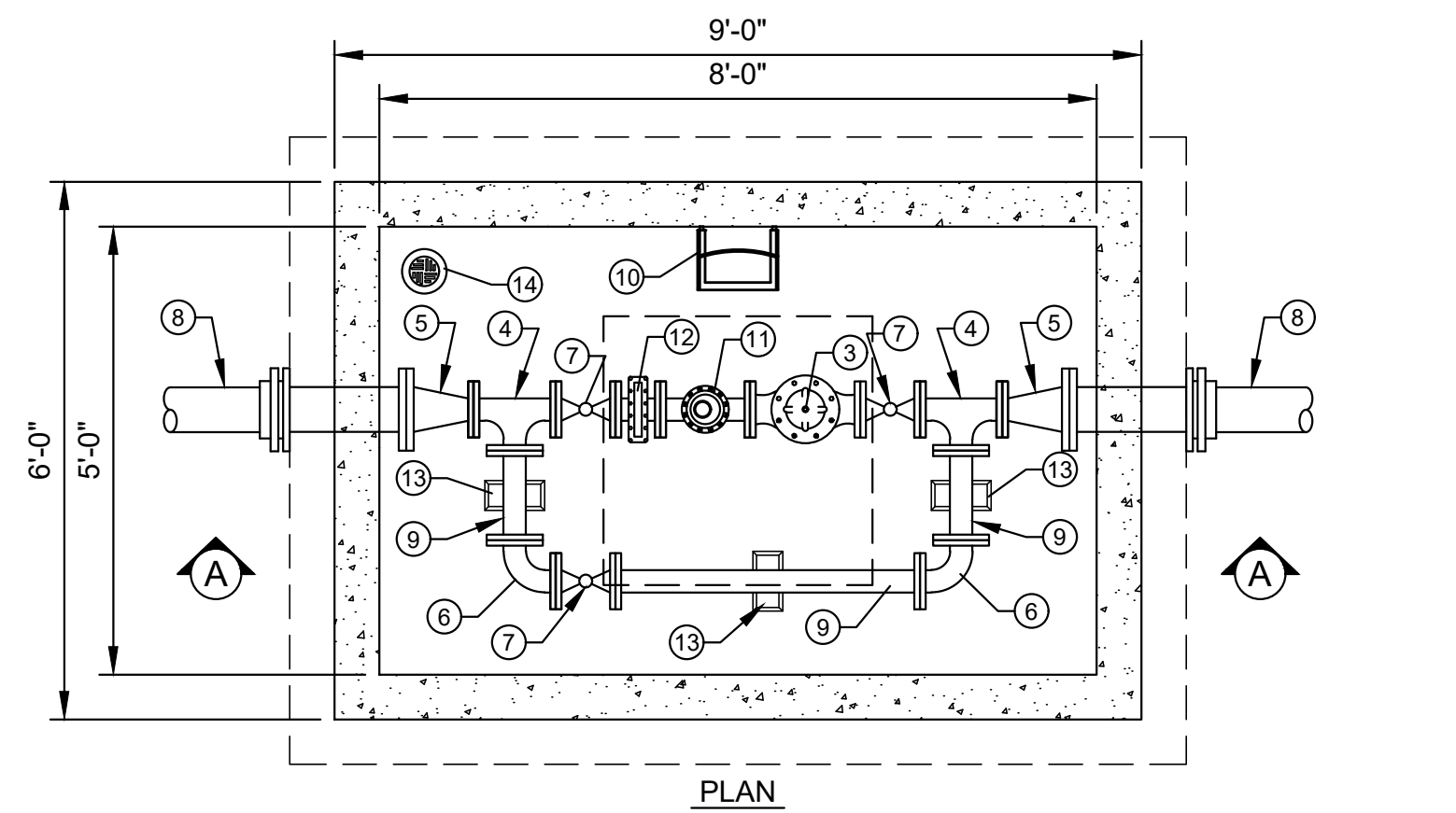
LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

CHESTNUT FORK
STATION 25+00 TO STATION 31+20

SHEET
41
OF
44



NOTES:
ALL PAVED DRIVEWAYS TO BE FREE BORED.
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED
WITH #57 STONE.



CHECK VALVE AND VAULT DETAIL

SCALE: N.T.S.

LEGEND

- ① PRECAST CONCRETE VALVE VAULT
- ② 36"x36" ALUMINUM ACCESS HATCH
- ③ 3" CLA-VAL PRESSURE REDUCING VALVE
- ④ 6"x3" FL. REDUCER
- ⑤ 3"x3"x3" FL. TEE
- ⑥ 3" 90° FL. BEND
- ⑦ 3" GATE VALVE
- ⑧ 6" WATER MAIN
- ⑨ 3" SPOOL PIECE
- ⑩ MANHOLE STEP
- ⑪ 3" BADGER MASTER METER
- ⑫ 3" BADGER STRAINER
- ⑬ CONCRETE SUPPORT BLOCK
- ⑭ 4" FLOOR DRAIN
- ⑮ 4" M.J. 90° BEND
- ⑯ COMPACTED #57 D.G.A
- ⑰ UNDISTURBED EARTH

RECORD DRAWINGS

DATE: 07/19/2021


REVISED BY: JH

DATE REVISED: 07/19/2021

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467 DATE: 3/26/2020
SCALE: 1" = 50'

DESIGNED BY: MAB
DRAWN BY: JH
CHECKED BY: MAB
RECORD DRAWINGS



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Engineers · Planners · Managers

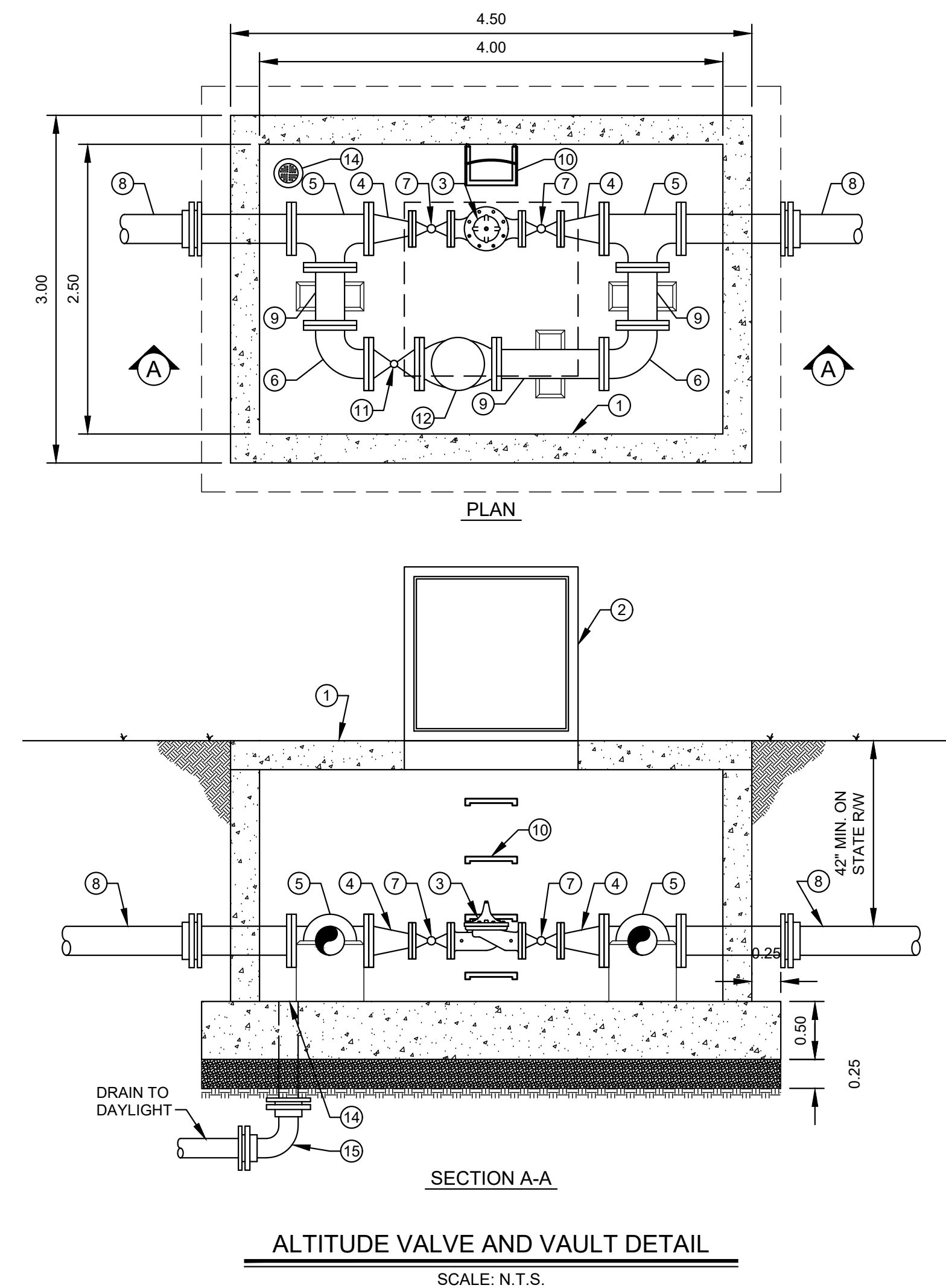
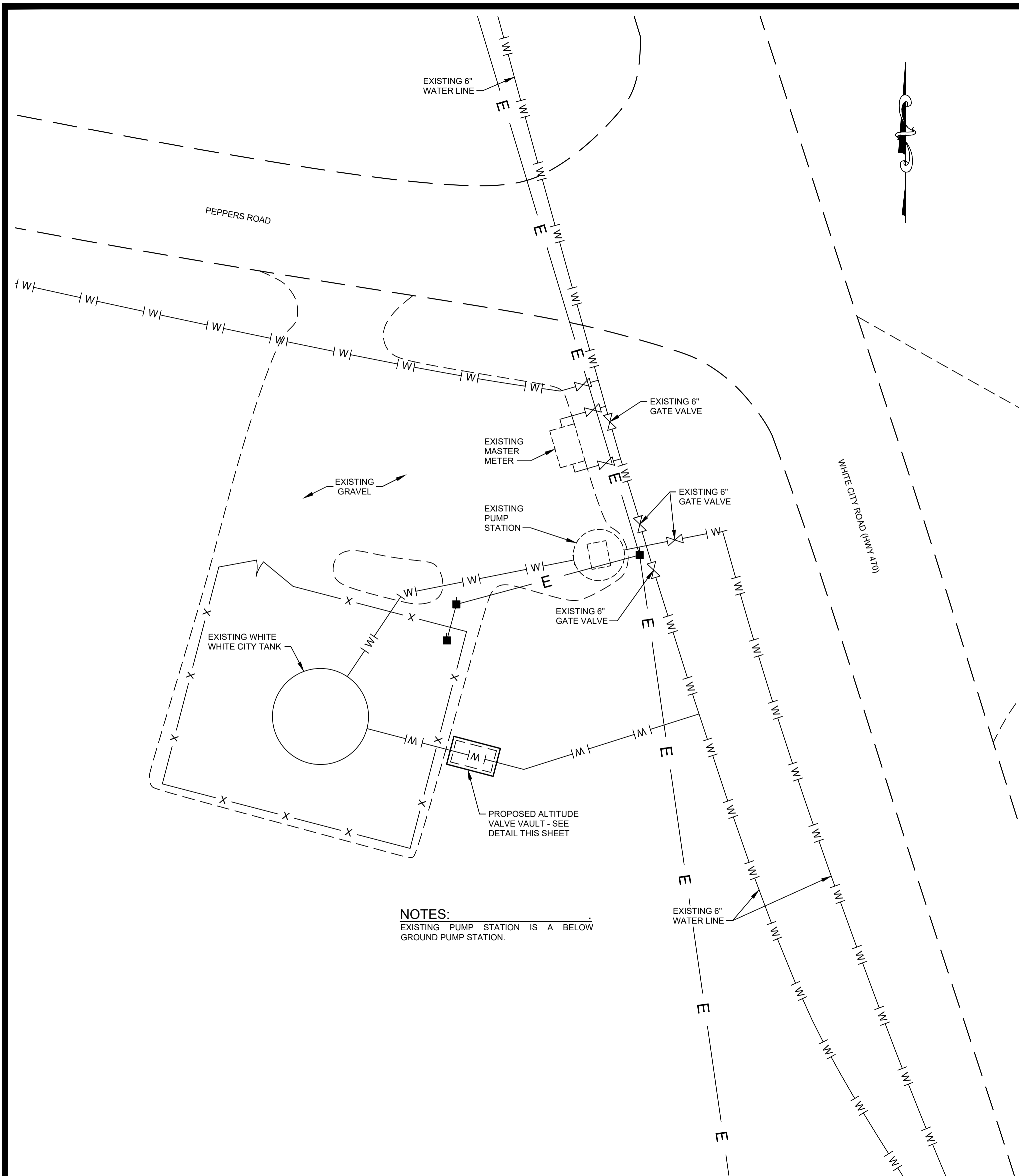
1100 Glensboro Road
Lawrenceburg, KY 40342

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LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

NORTH L & N TURNPIKE RD. (HWY 470)
CHECK VALVE AND VAULT

SHEET 43
OF 44



- LEGEND**
- ① PRECAST CONCRETE VALVE VAULT
 - ② 36"x36" ALUMINUM ACCESS HATCH
 - ③ 3" CLA-VAL ALTITUDE VALVE
 - ④ 6"x3" FL. REDUCER
 - ⑤ 6"x6"x6" FL. TEE
 - ⑥ 6" 90° FL. BEND
 - ⑦ 3" GATE VALVE
 - ⑧ 6" WATER MAIN
 - ⑨ 6" SPOOL PIECE
 - ⑩ MANHOLE STEP
 - ⑪ 6" GATE VALVE
 - ⑫ 6" CHECK VALVE
 - ⑬ CONCRETE SUPPORT BLOCK
 - ⑭ 4" FLOOR DRAIN
 - ⑮ 4" M.J. 90° BEND
 - ⑯ COMPACTED #57 D.G.A
 - ⑰ UNDISTURBED EARTH

RECORD DRAWINGS	
DATE:	07/19/2021
REVISED BY:	JH
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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467	DATE: 3/26/2020
SCALE: 1" = 10'	
DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	

CANN-TECH, LLC
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LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

WHITE CITY TANK PUMP STATION AND
ALTITUDE VALVE AND VAULT



NOTES:
1. STATION 0+00 STARTS AT THE INTERSECTION OF HWY 31E AND MILLER ROAD. STATIONING RUNS LEFT AWAY FROM HWY 31E.
2. STATION MARKS ARE EVERY 100 FEET ALONG THE CENTER LINE OF THE ROAD.

RECORD DRAWINGS	
DATE:	2/19/2021
REVISED BY:	JH
DATE REVISED:	2/19/2021

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467	DATE: 3/12/2020
SCALE: 1" = 50'	
DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	

CT

1100 Glensboro Road
Lawrenceburg, KY 40342

CANN-TECH, LLC

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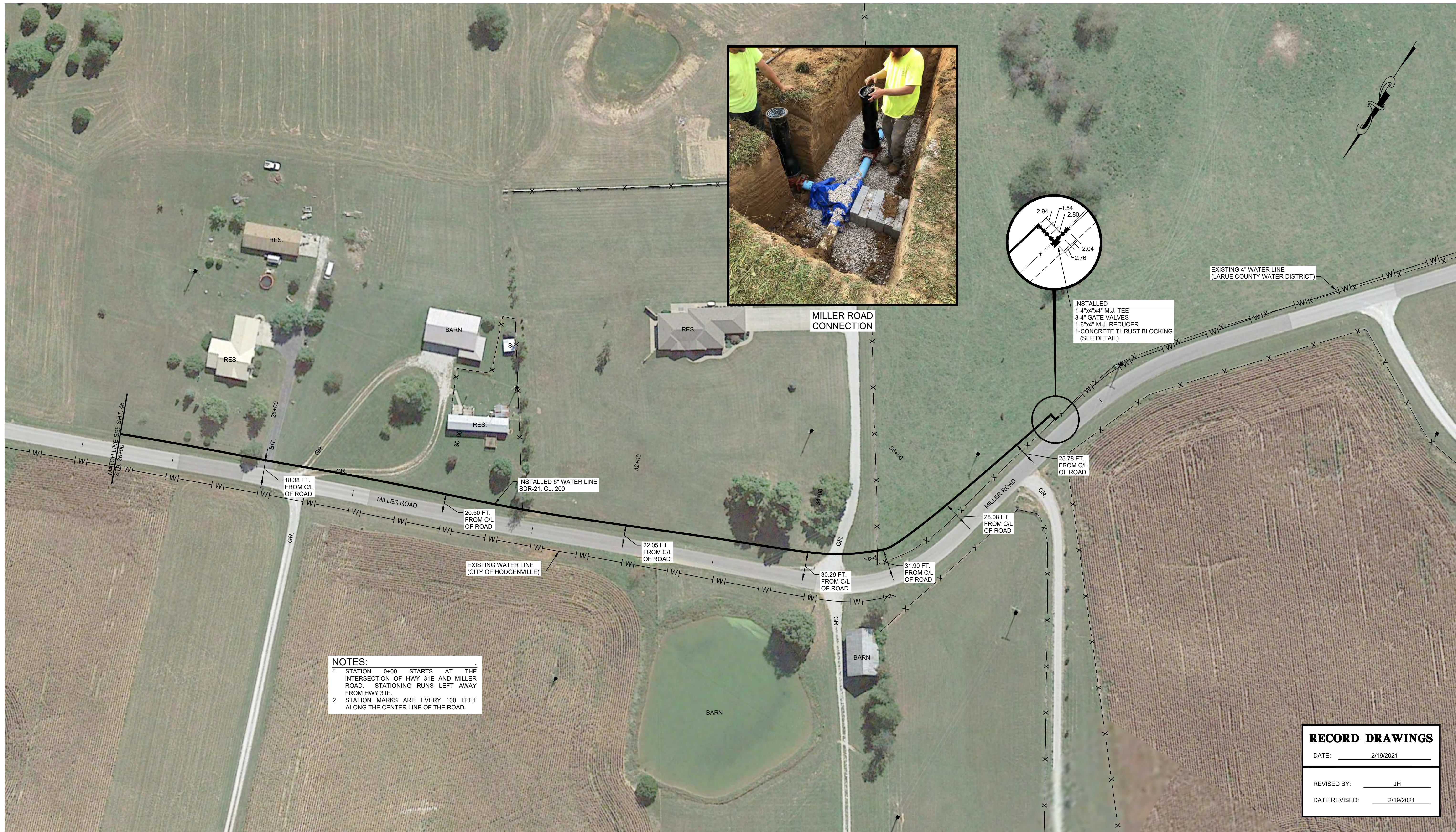
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LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY

MILLER ROAD
STATION 12+00 TO STATION 26+00

SHEET
46

OF
47




NOTES:
1. STATION 0+00 STARTS AT THE INTERSECTION OF HWY 31E AND MILLER ROAD. STATIONING RUNS LEFT AWAY FROM HWY 31E.
2. STATION MARKS ARE EVERY 100 FEET ALONG THE CENTER LINE OF THE ROAD.

RECORD DRAWINGS	
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Engineers · Planners · Managers
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Lawrenceburg, KY 40342

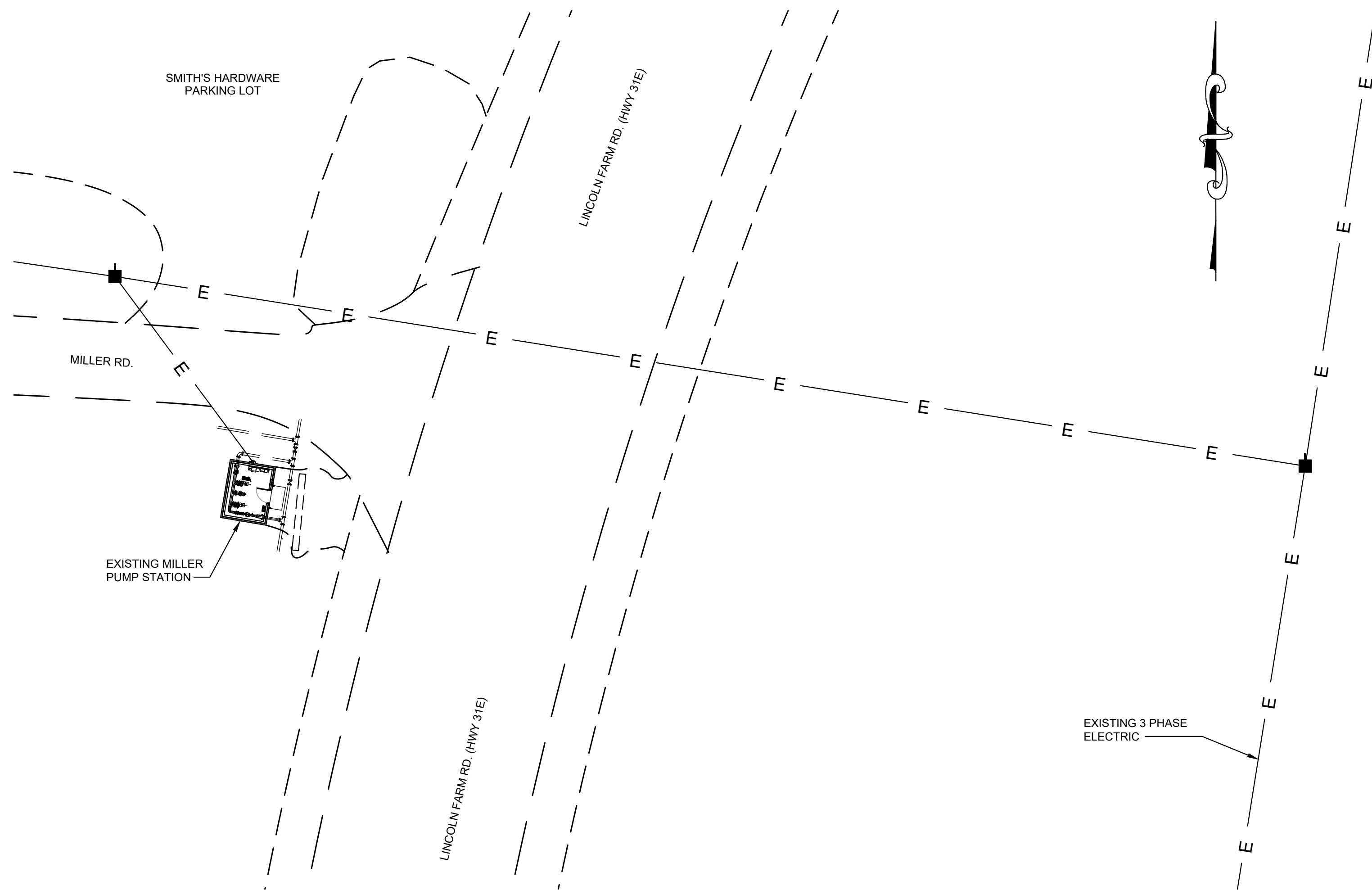
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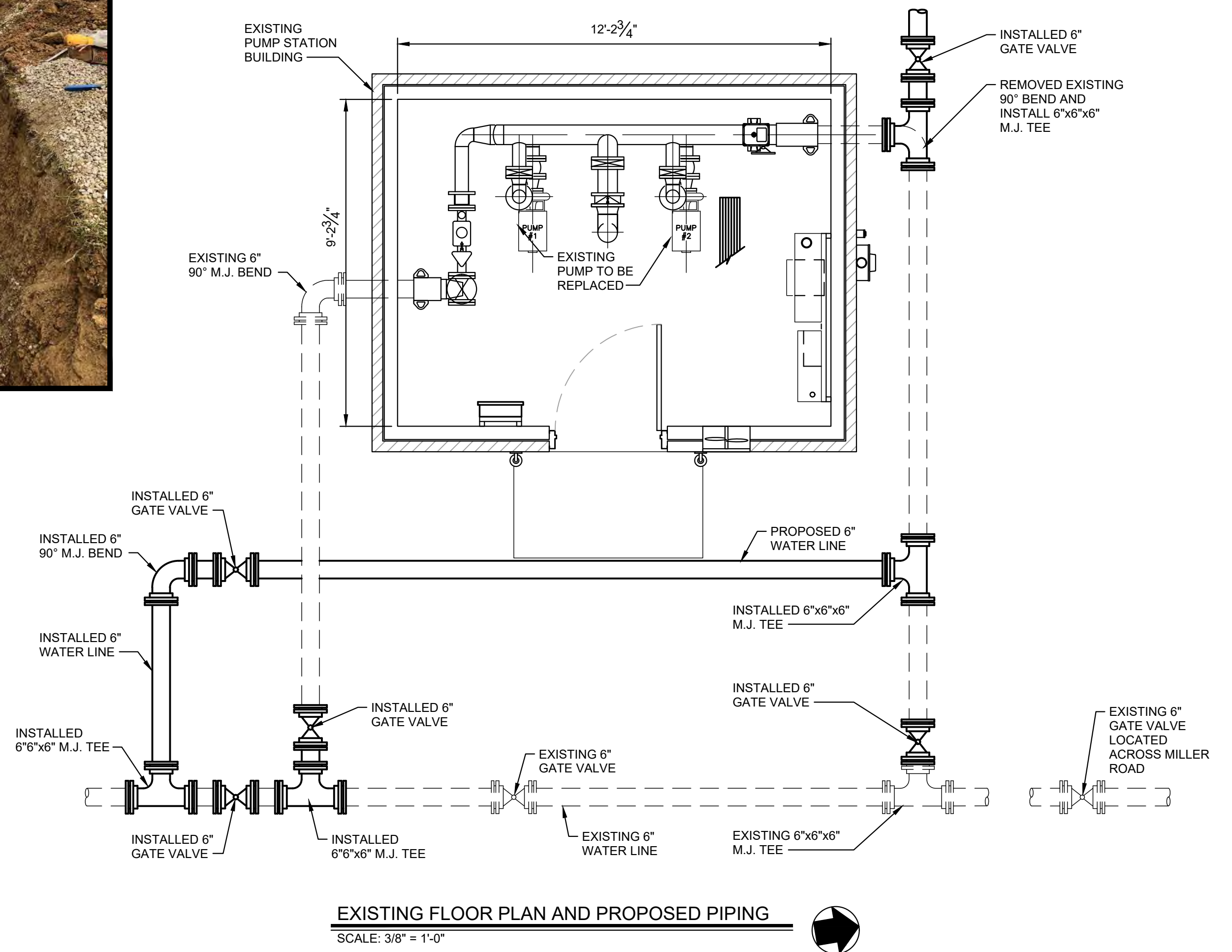
LCWD 2020 WATER IMPROVEMENTS LARUE COUNTY WATER DISTRICT LARUE COUNTY, KENTUCKY	
MILLER ROAD STATION 26+00 TO STATION 34+65	
SHEET 47	OF 47



MILLER ROAD CONNECTION
AT PUMP STATION



EXISTING MILLER PUMP STATION SITE
SCALE: 1" = 20'




EXISTING FLOOR PLAN AND PROPOSED PIPING
SCALE: 3/8" = 1'-0"

RECORD DRAWINGS	
DATE:	07/19/2021
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DATE REVISED:	07/19/2021

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467	DATE: 1/9/2020
SCALE: AS NOTED	
DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	



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Lawrenceburg, KY 40342

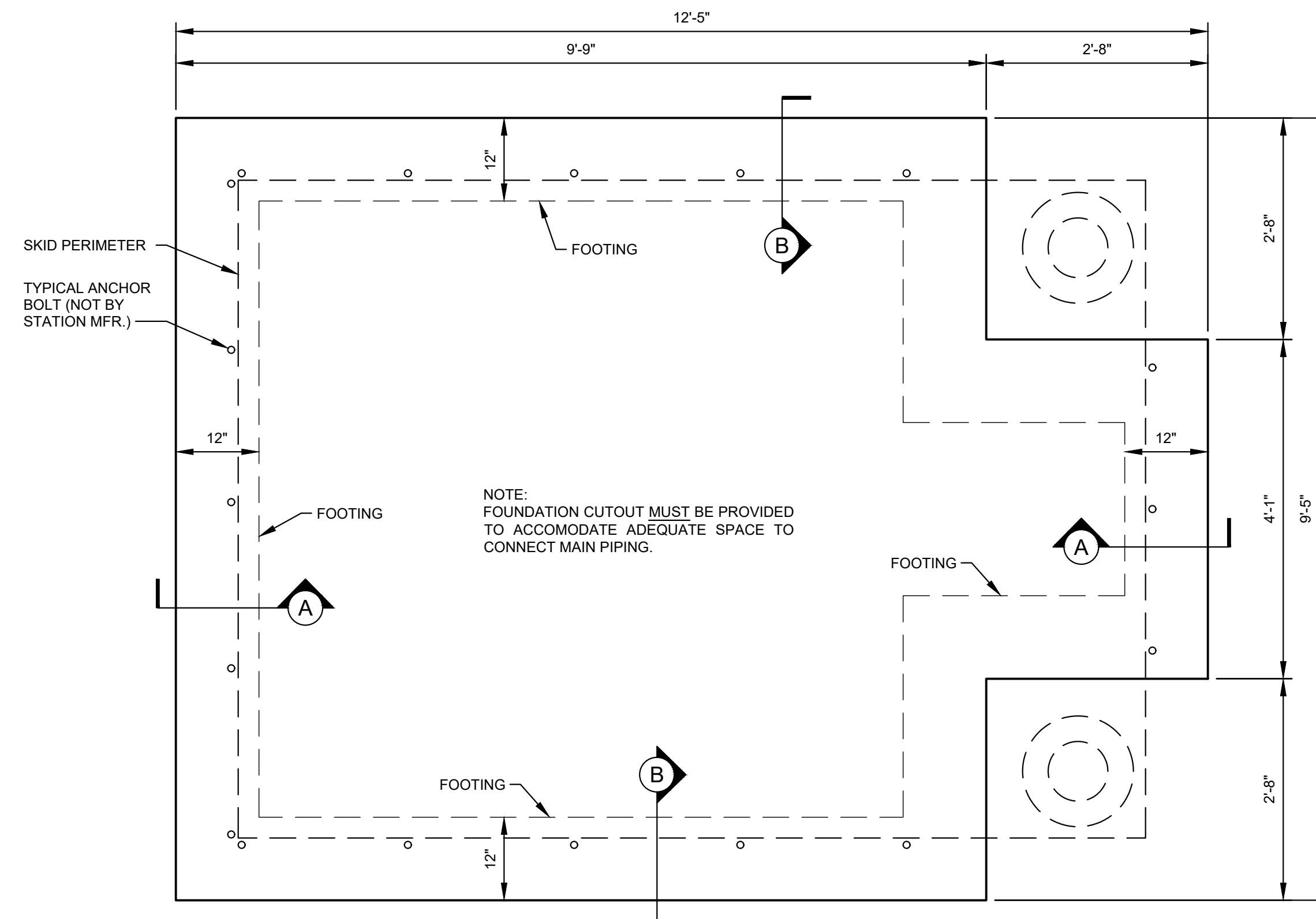
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LCWD 2020 WATER IMPROVEMENTS

LARUE COUNTY WATER DISTRICT

LARUE COUNTY, KENTUCKY

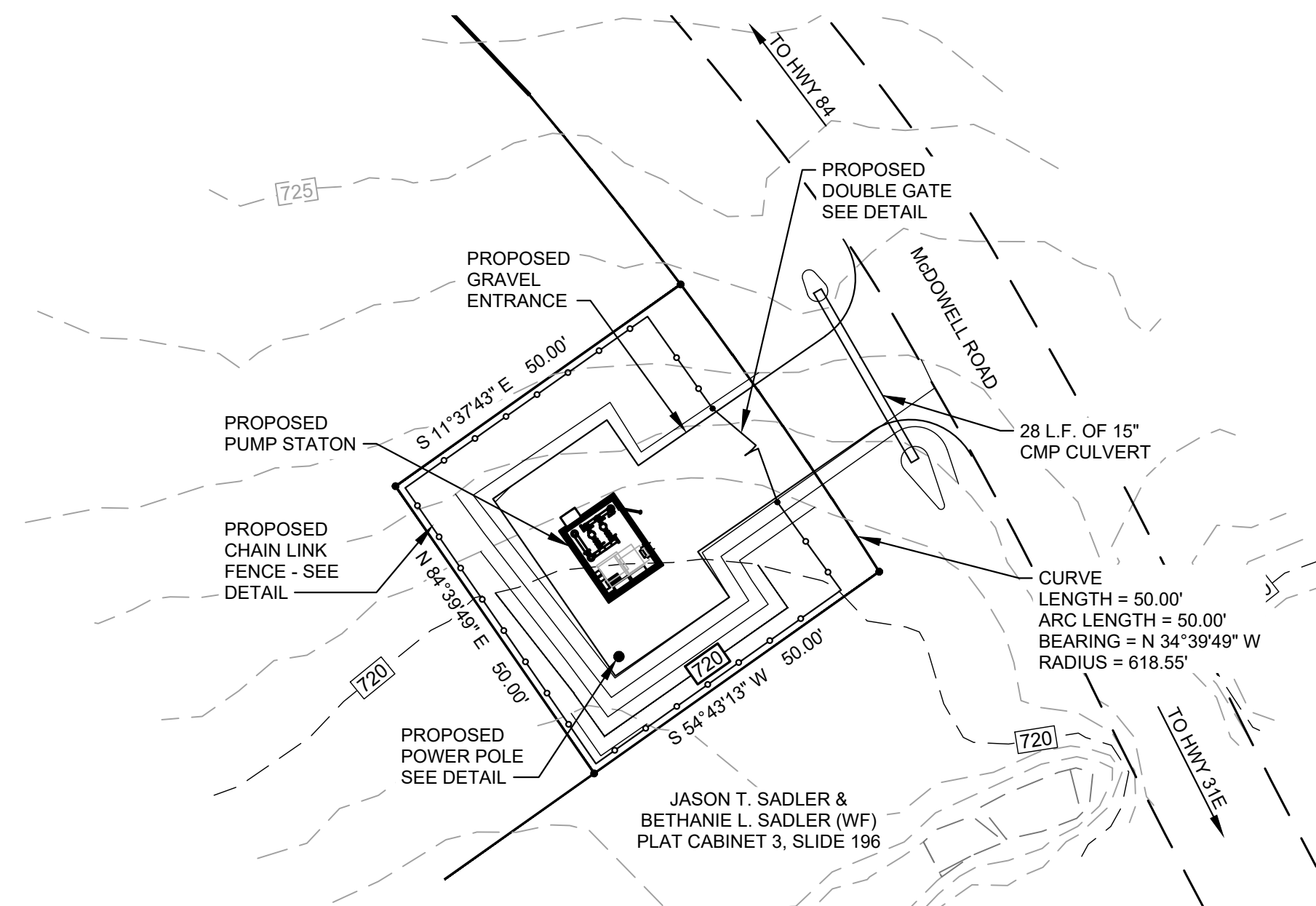
EXISTING MILLERS ROAD PUMP STATION
AND FLOOR PLAN



TYPICAL FOUNDATION LAYOUT

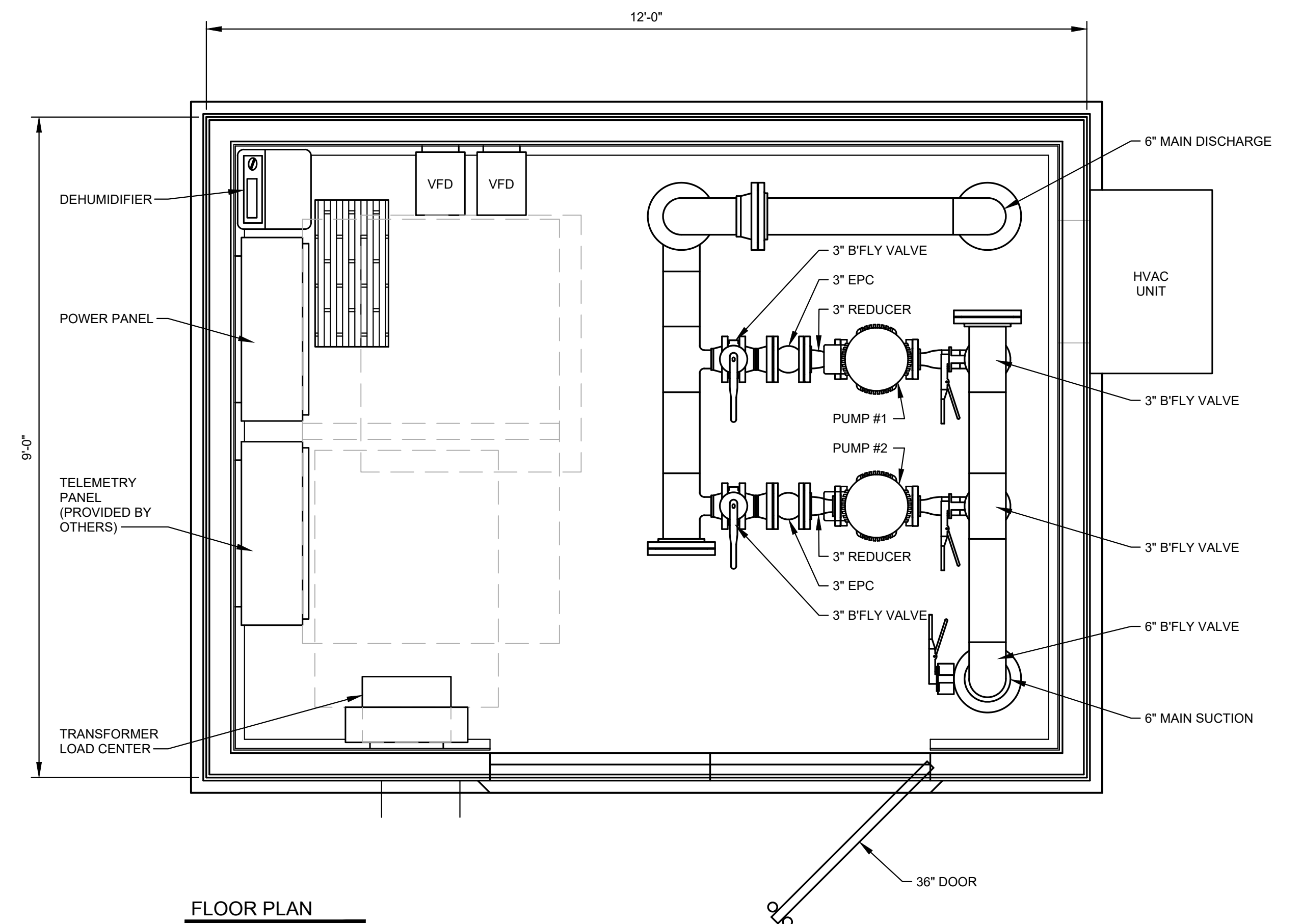
SCALE: N.T.S.

NOTE: NOT FOR CONSTRUCTION PURPOSES



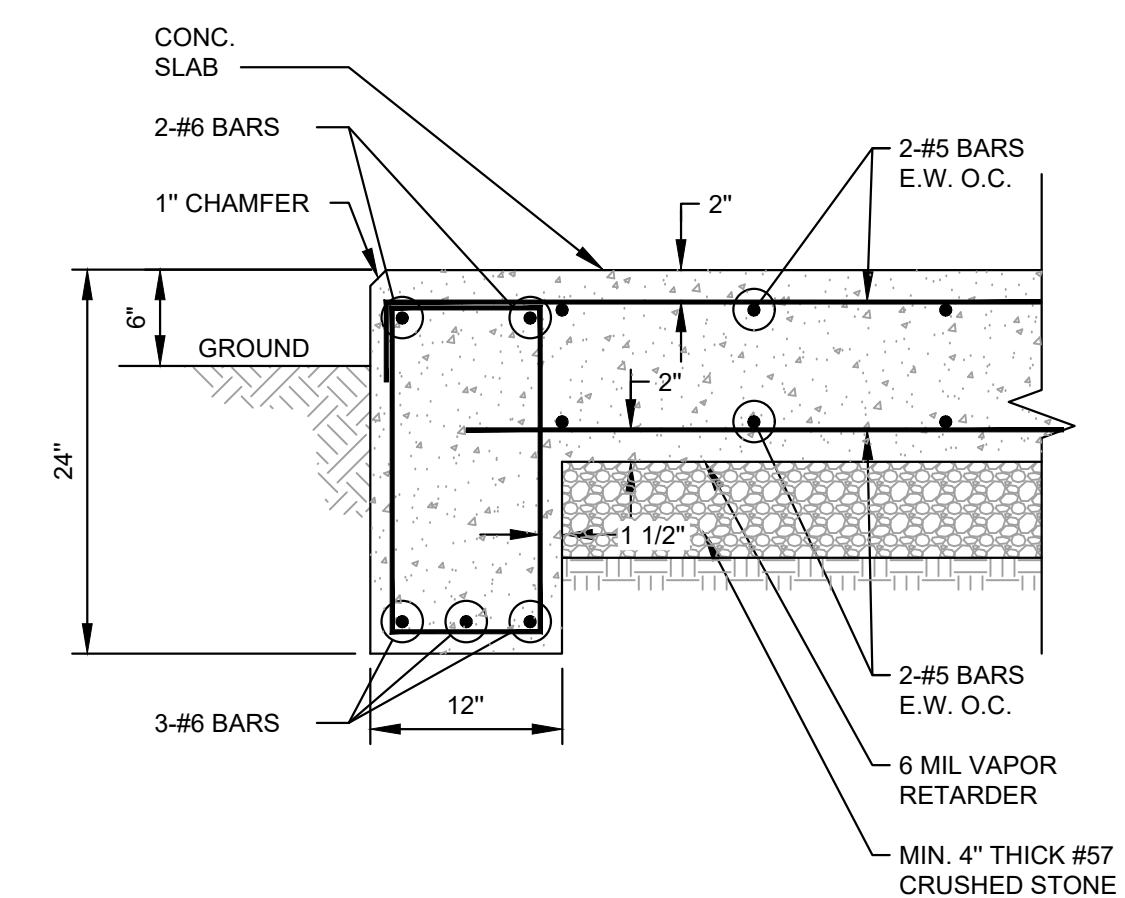
PUMP STATION SITE

SCALE: N.T.S.



FLOOR PLAN

SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.

RECORD DRAWINGS	
DATE:	07/19/2021
REVISED BY: JH	
DATE REVISED:	07/19/2021

[illegible]

PROJECT: 467 DATE: 3/26/2020
SCALE: AS NOTED

DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	

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Engineers · Planners · Managers

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Lawrenceburg, KY 40342 **Fax (502) 859-0668**

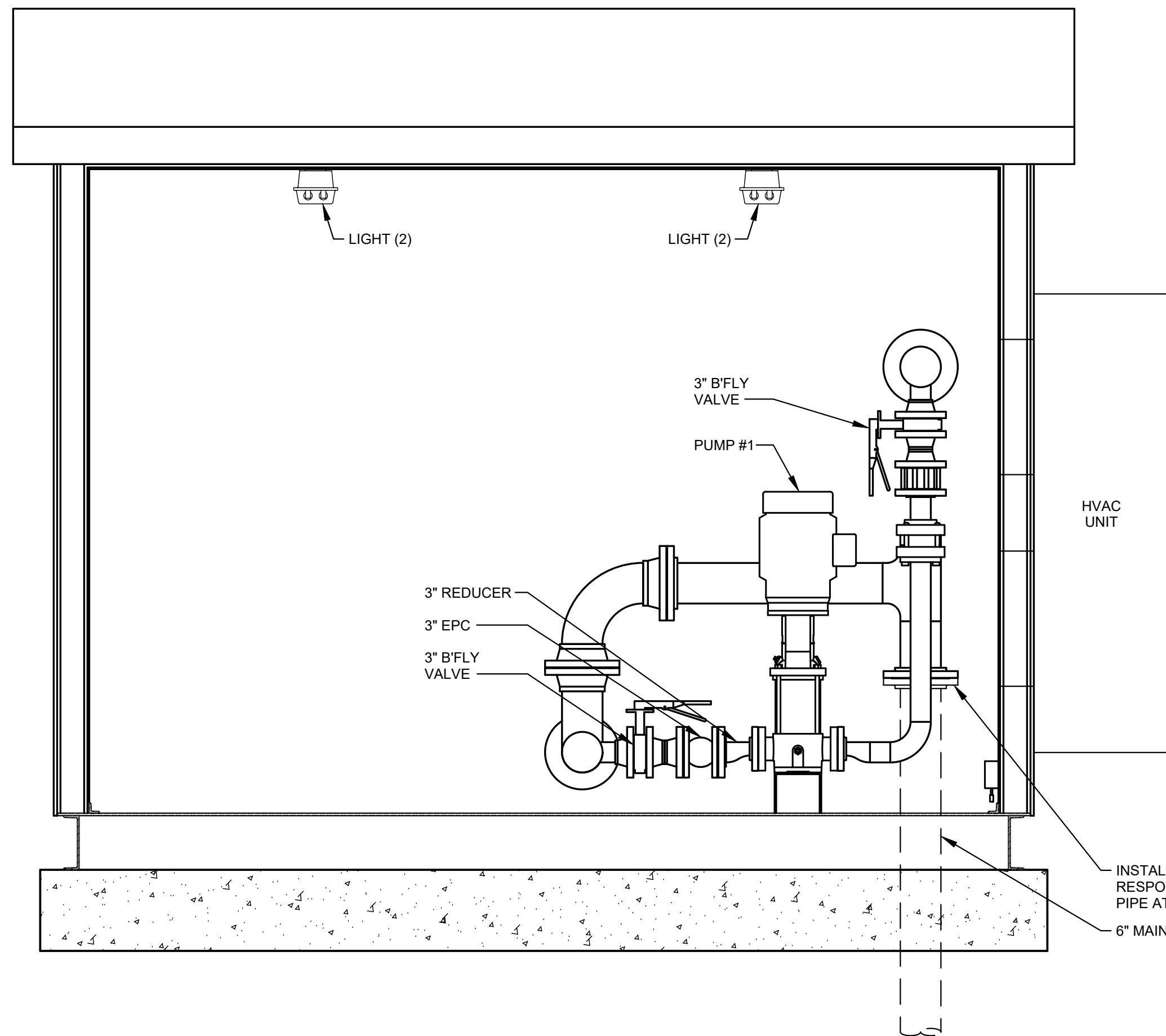
**LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY**

**MCDOWELL PUMP STATION FLOOR/SKID PLANS &
TYPICAL FOUNDATION LAYOUT**

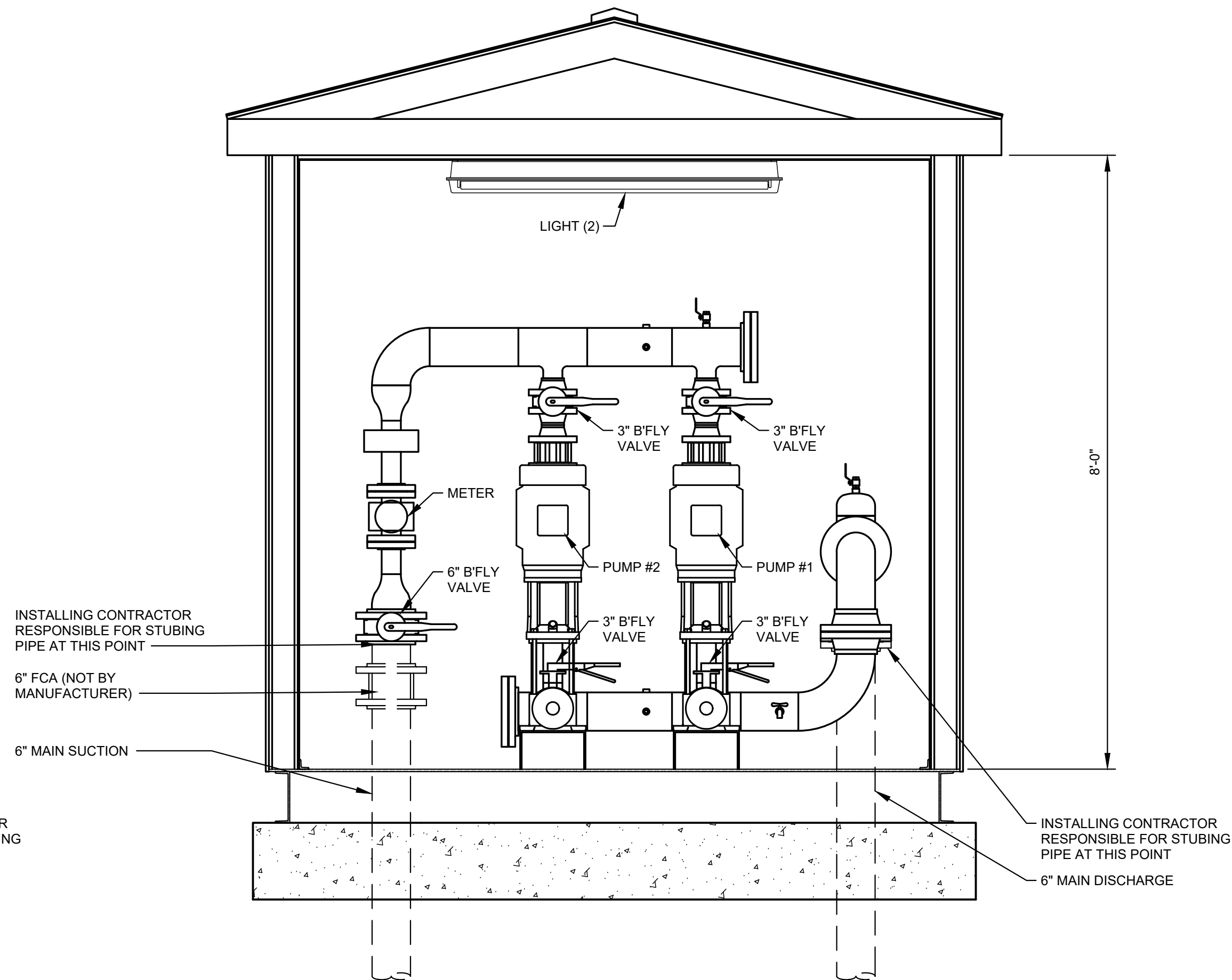
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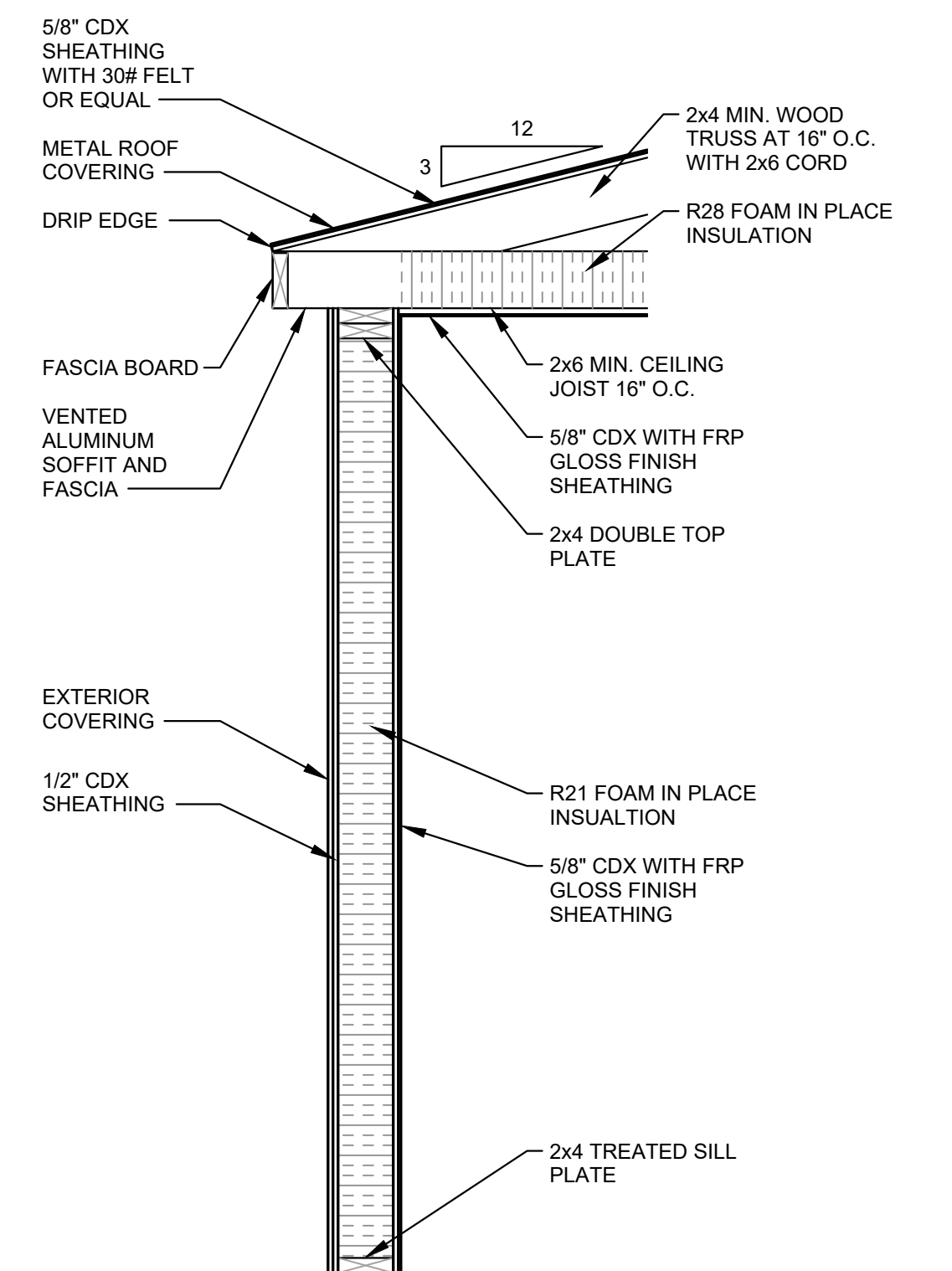
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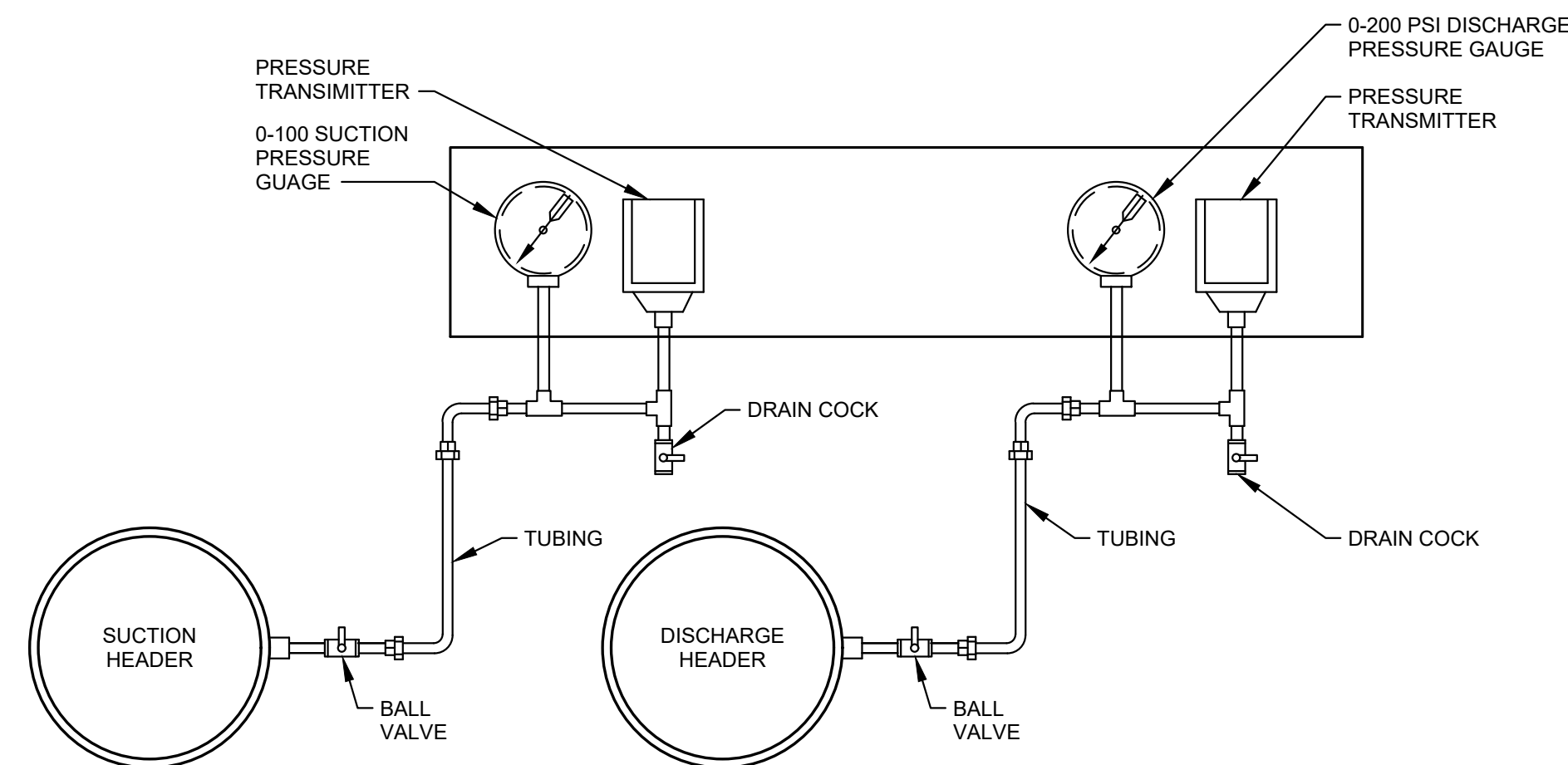
SECTION B-B
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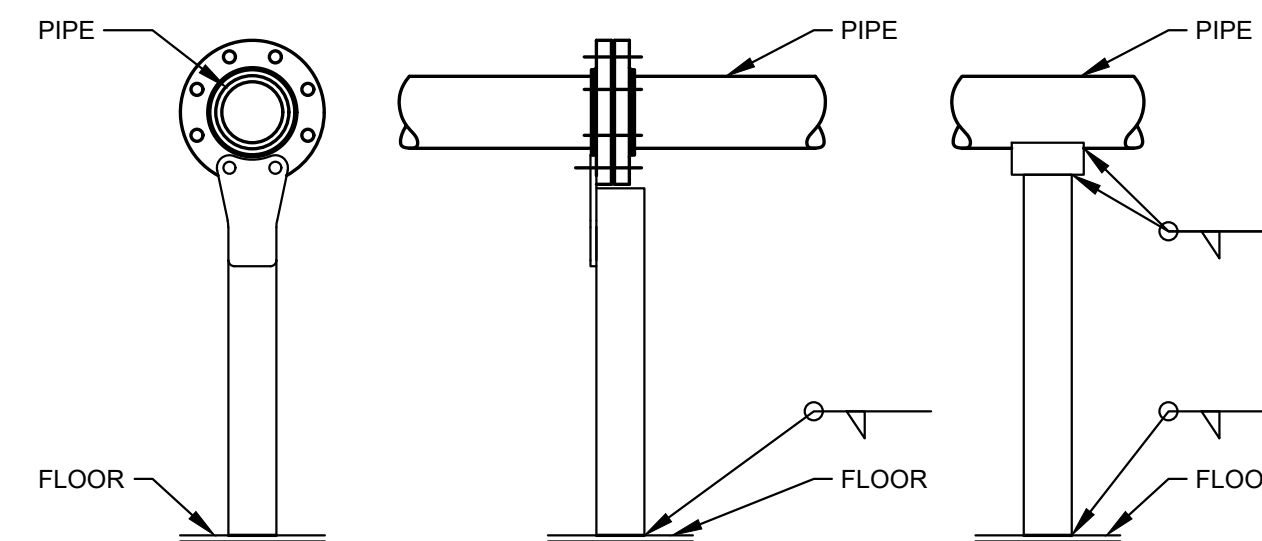
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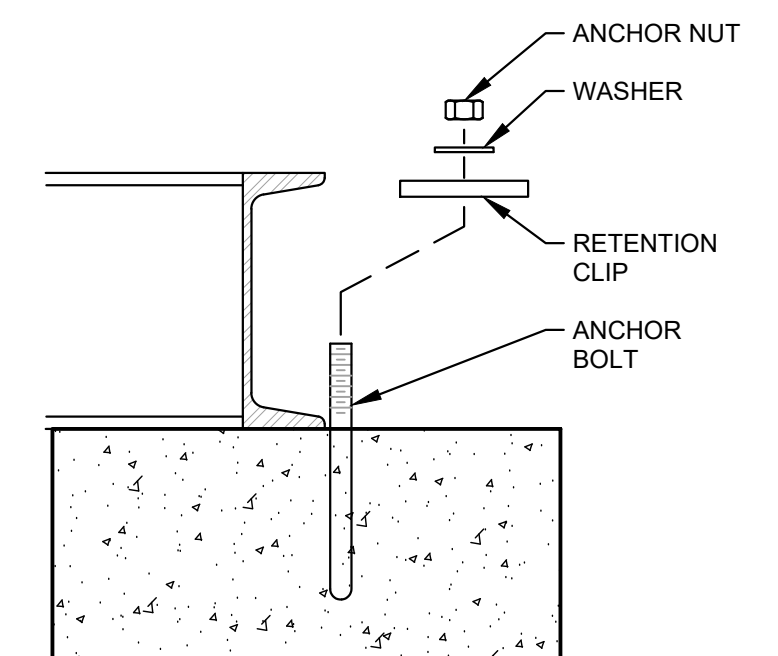
TYPICAL WALL SECTION
SCALE: N.T.S.



**SUCTION / DISCHARGE PRESSURE
GUAGE / TRANSMITTER DETAIL**
SCALE: N.T.S.



PIPE SUPPORT DETAIL
SCALE: N.T.S.




RETENTION DETAIL
SCALE: N.T.S.

RECORD DRAWINGS	
DATE:	07/19/2021
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DATE REVISED:	07/19/2021

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467		DATE: 3/26/2020	
SCALE: AS NOTED			
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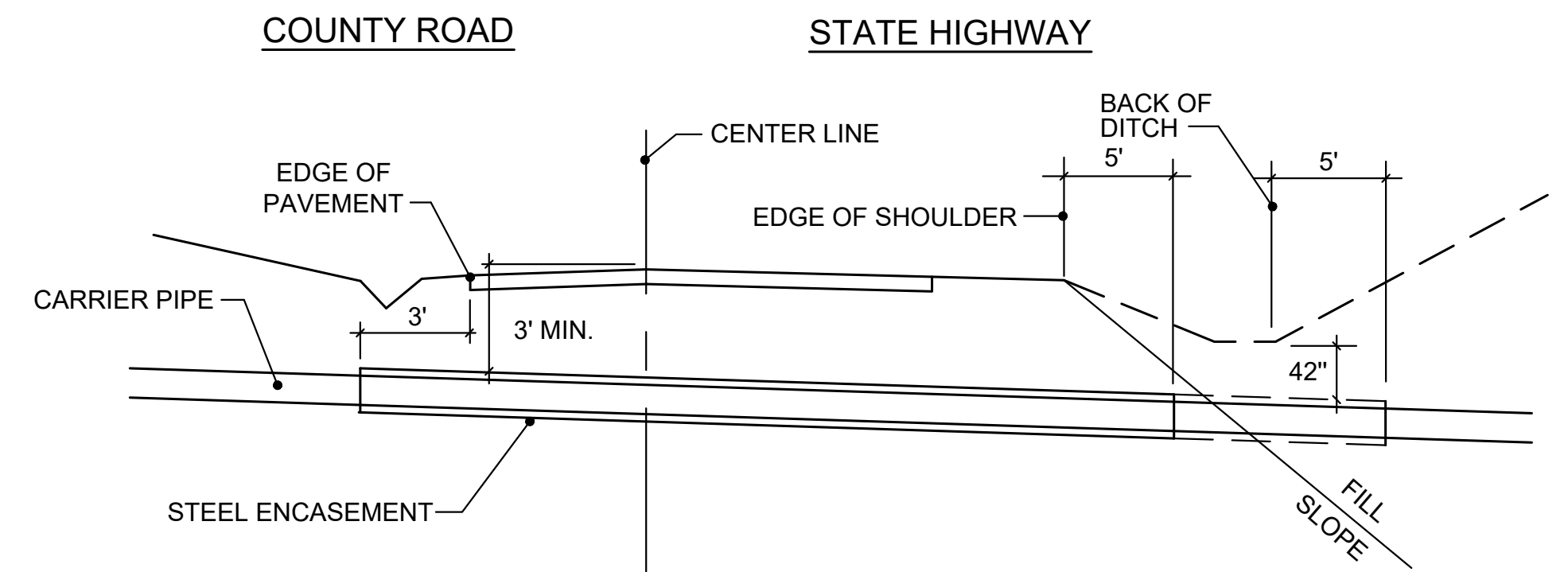


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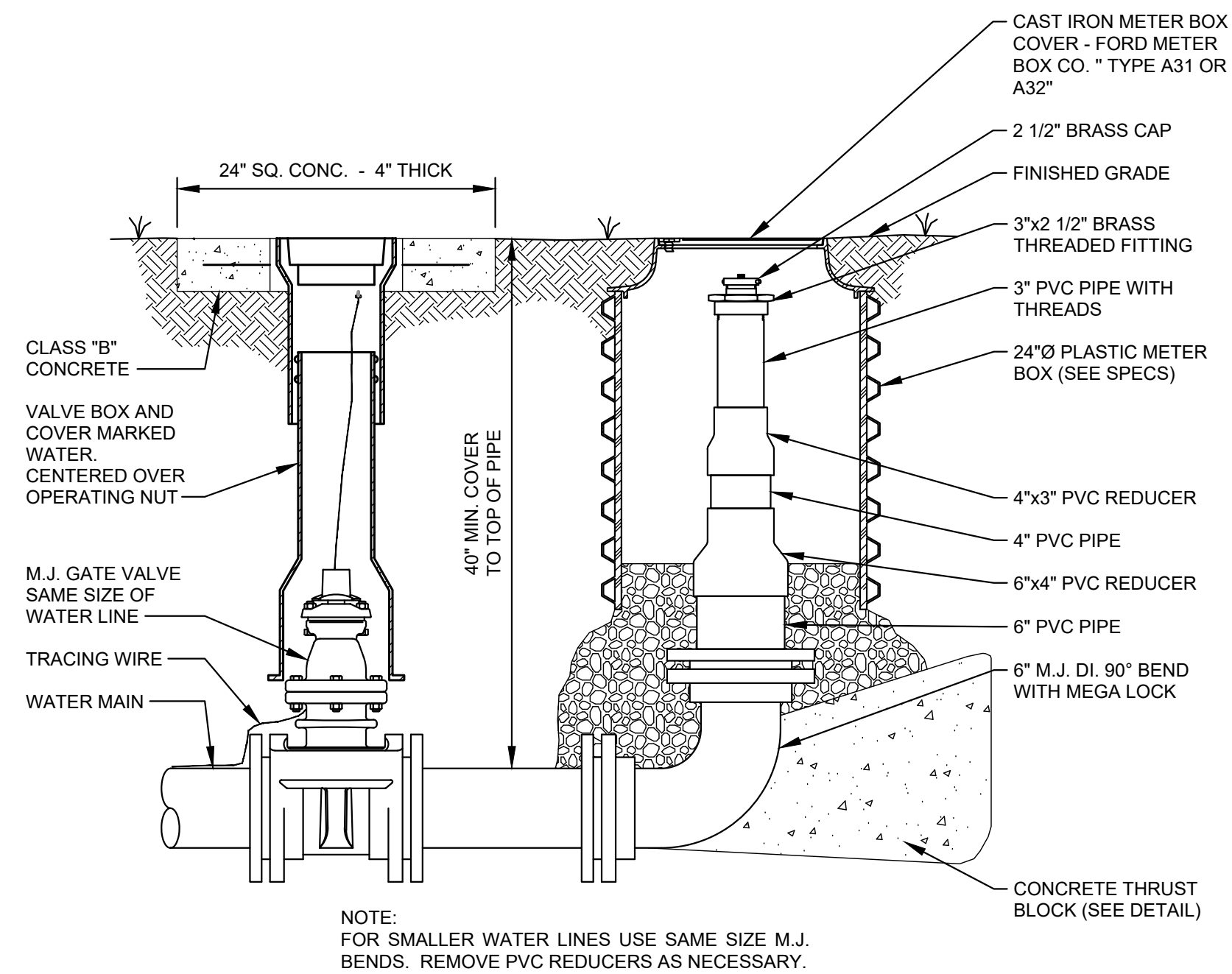
**LCWD 2020 WATER IMPROVEMENTS
LARUE COUNTY WATER DISTRICT
LARUE COUNTY, KENTUCKY**

MCDOWELL PUMP STATION
SECTIONS AND DETAILS

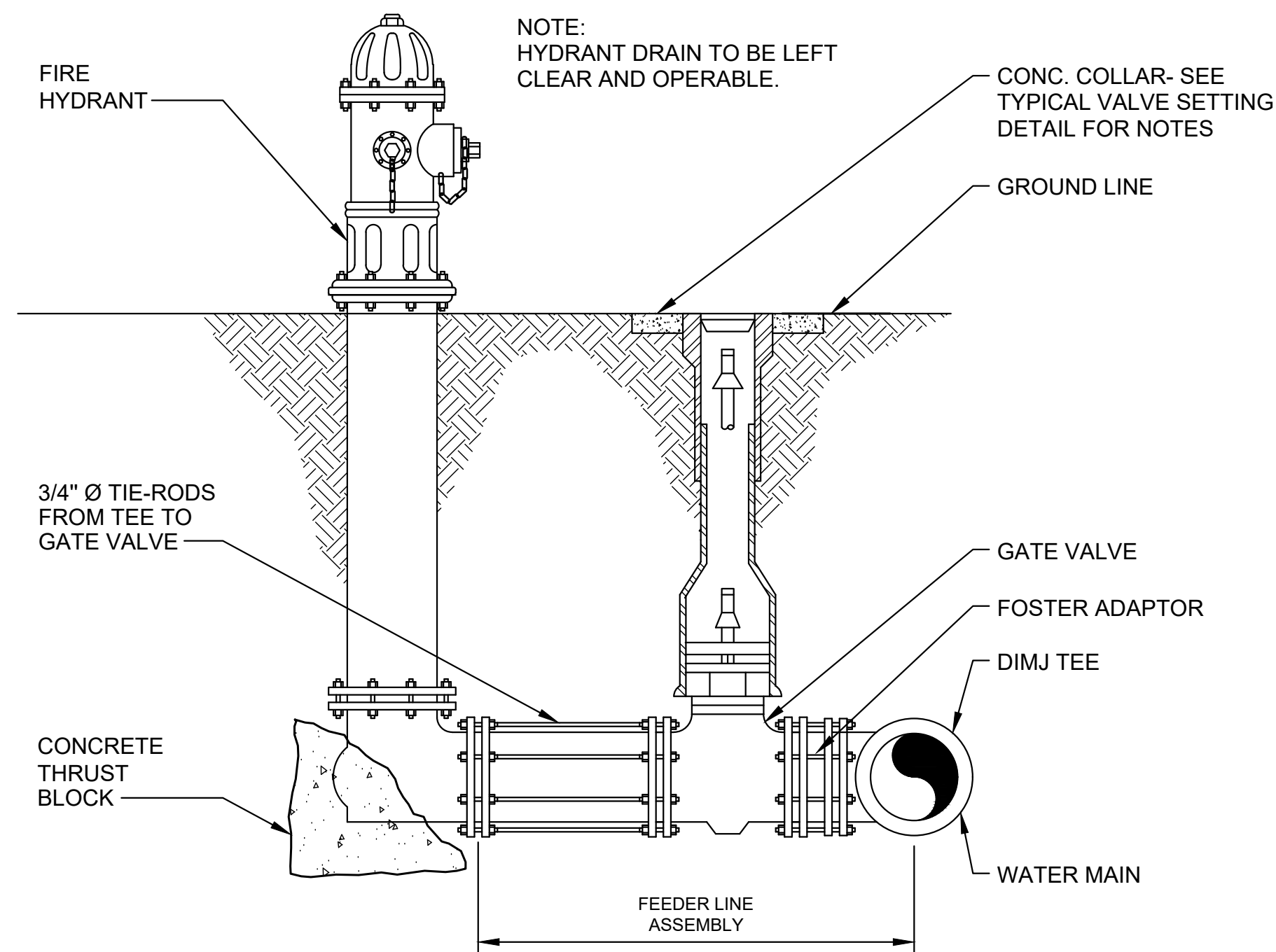
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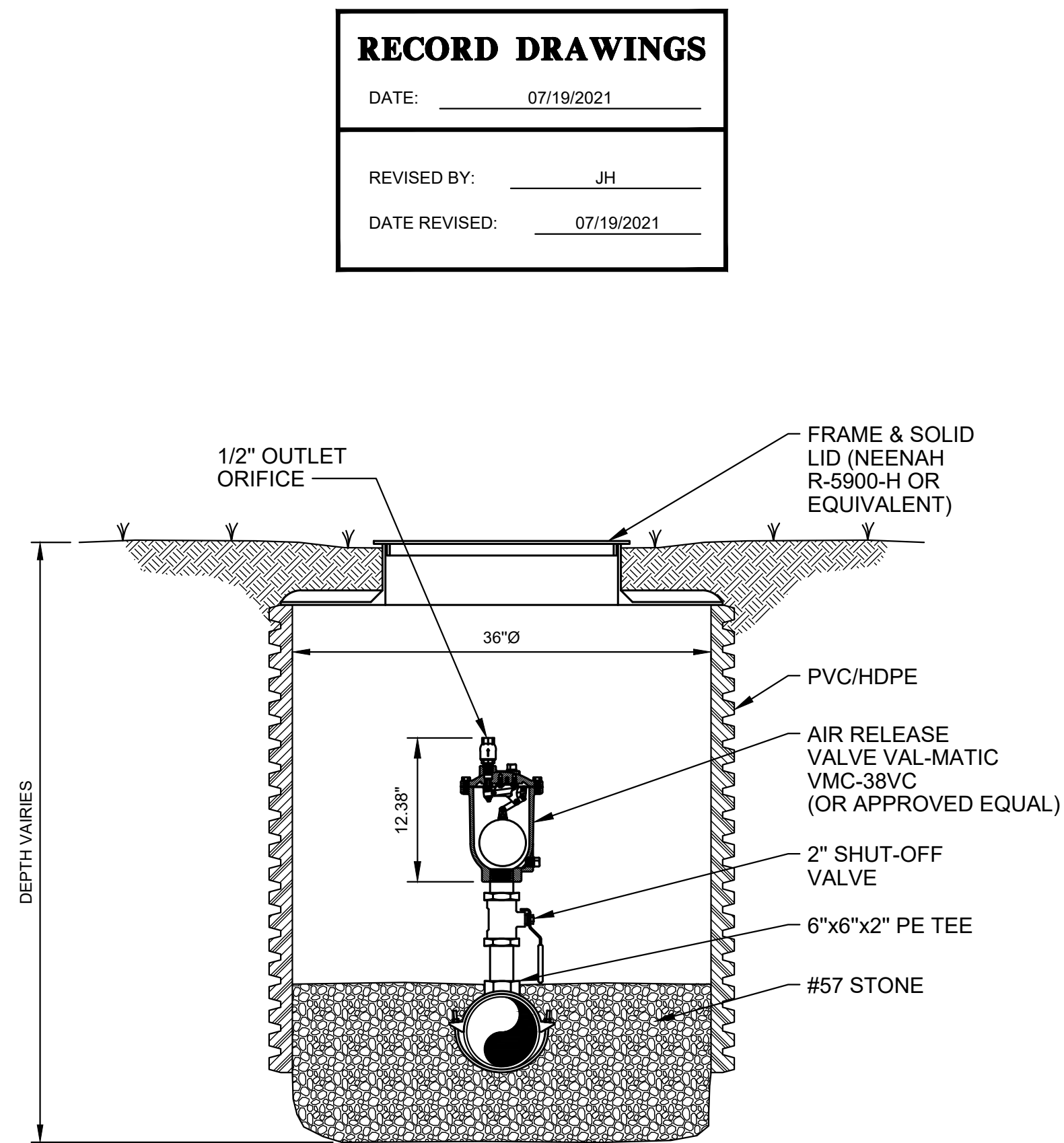
SHEET
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 SD5



BLOWOFF ASSEMBLY
SCALE: N.T.S.

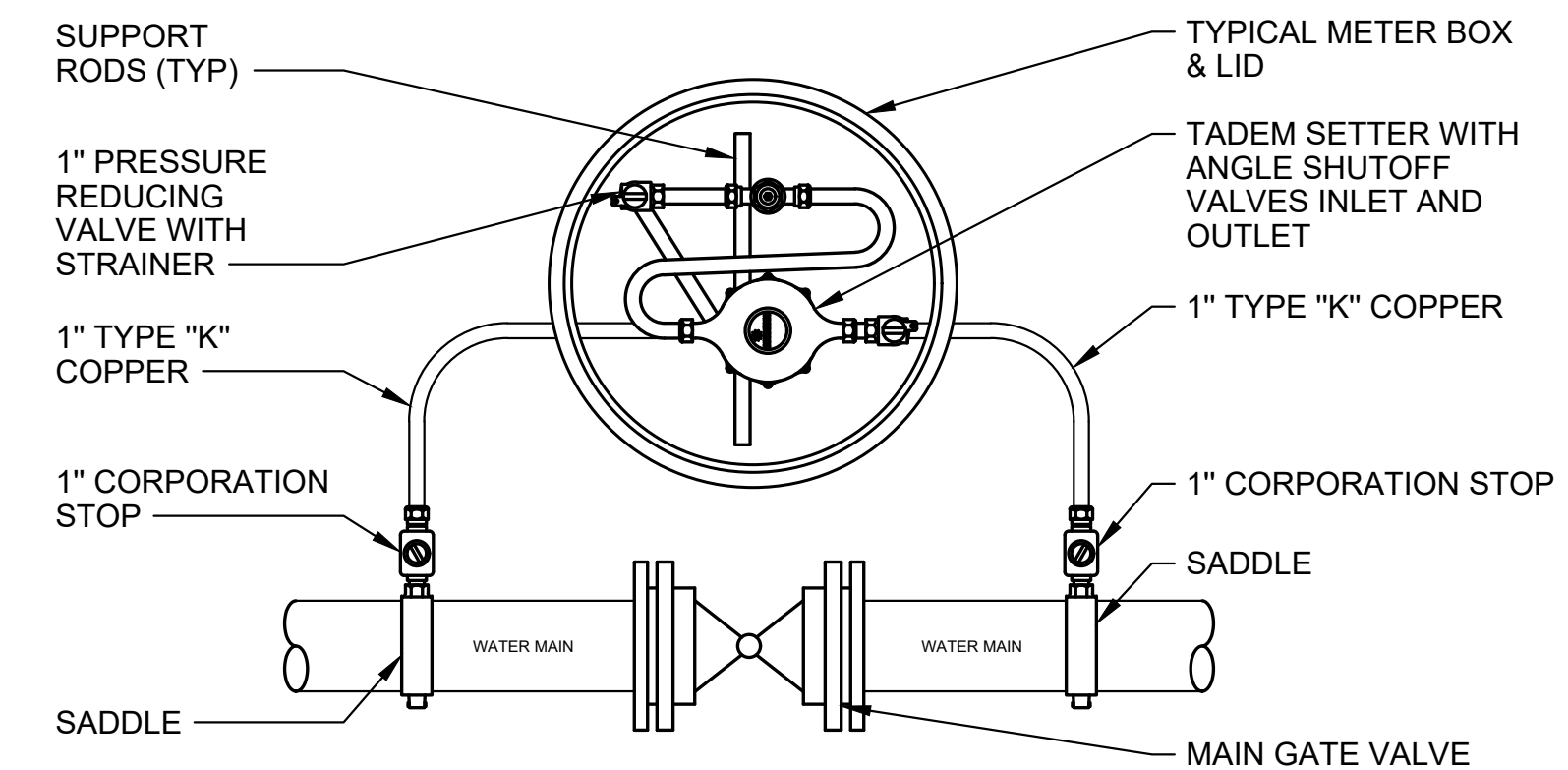


**FIRE HYDRANT (3 NOZZLE) OR
SINGLE NOZZLE BLOW-OFF HYDRANT (1 NOZZLE)**
SCALE: N.T.S.



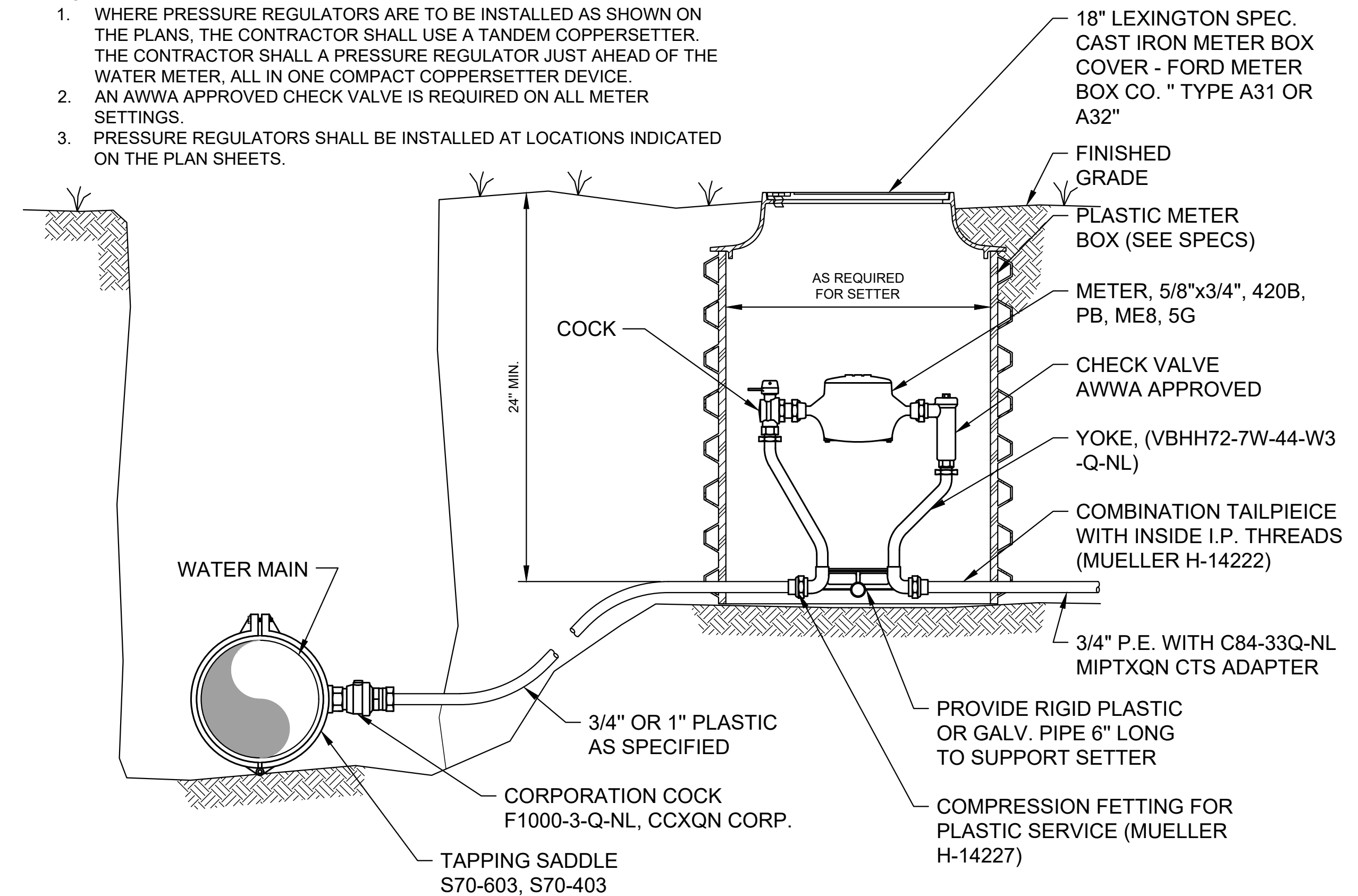
AIR/VACUUM VALVE
SCALE: N.T.S.

- NOTES:
1. BOX AND SETTER TO BE PRE-FABRICATED.
2. A TOTAL OF TWO (2) 1" METERS TO BE SUPPLIED AND DELIVERED TO THE WATER DISTRICT FOR USE WHERE METER SETTERS ARE INSTALLED AT THE GATE VALVES.



TEST METER AT GATE VALVE
SCALE: N.T.S.

- NOTES:
1. WHERE PRESSURE REGULATORS ARE TO BE INSTALLED AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE A TANDEM COPPERSETTER. THE CONTRACTOR SHALL A PRESSURE REGULATOR JUST AHEAD OF THE WATER METER, ALL IN ONE COMPACT COPPERSETTER DEVICE.
2. AN AWWA APPROVED CHECK VALVE IS REQUIRED ON ALL METER SETTINGS.
3. PRESSURE REGULATORS SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE PLAN SHEETS.



**TYPICAL METER SETTING
5/8" x 3/4" & 1" SERVICES**
SCALE: N.T.S.

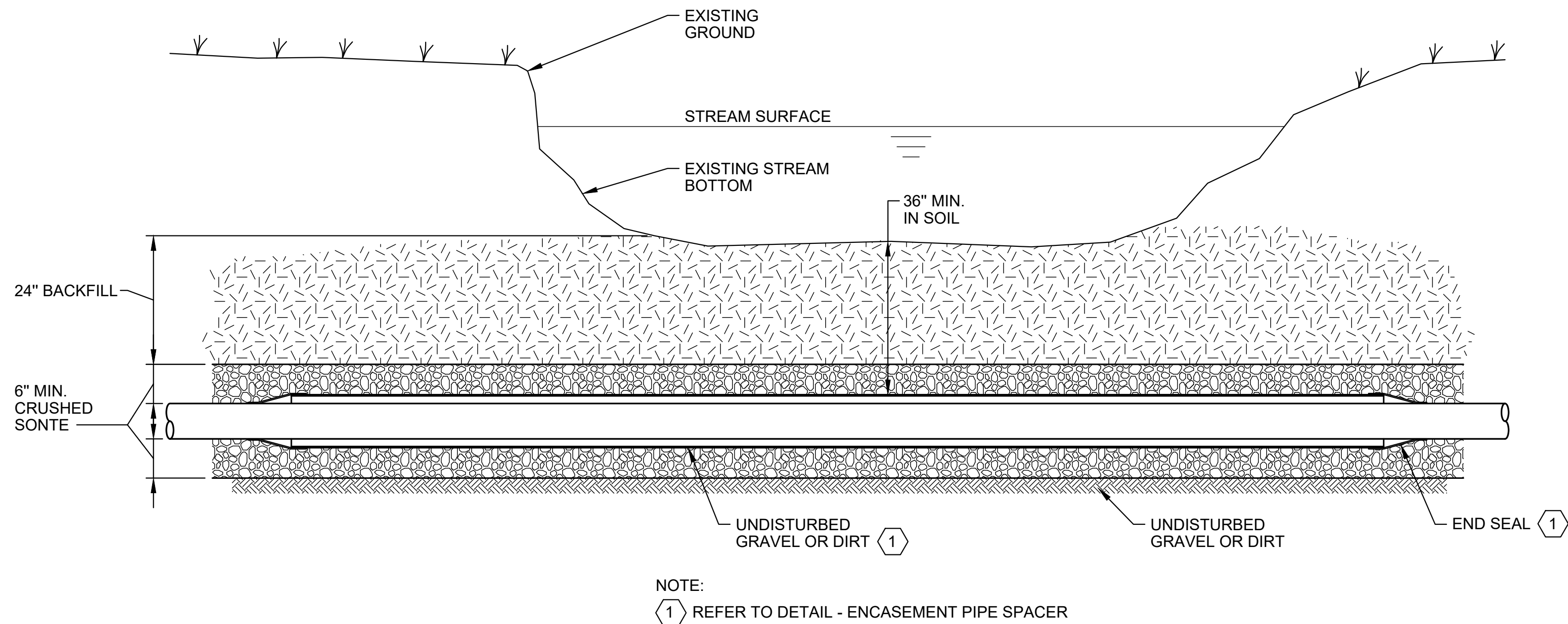
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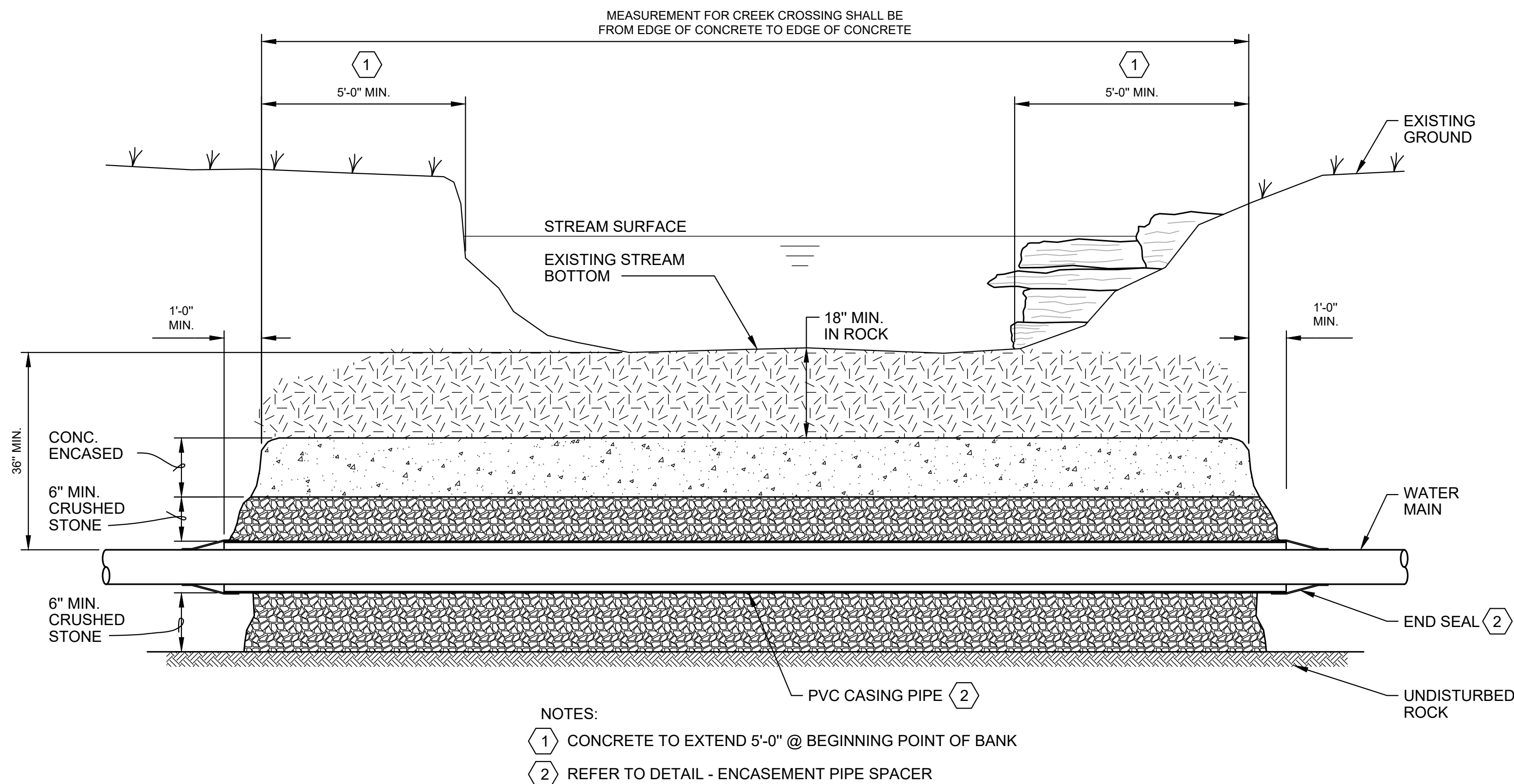


**2020 WATER LINE IMPROVEMENTS
LARUE COUNTY #1 WATER DISTRICT
LARUE COUNTY, KENTUCKY**
STANDARD DETAILS
SHEET SD2 OF SD5



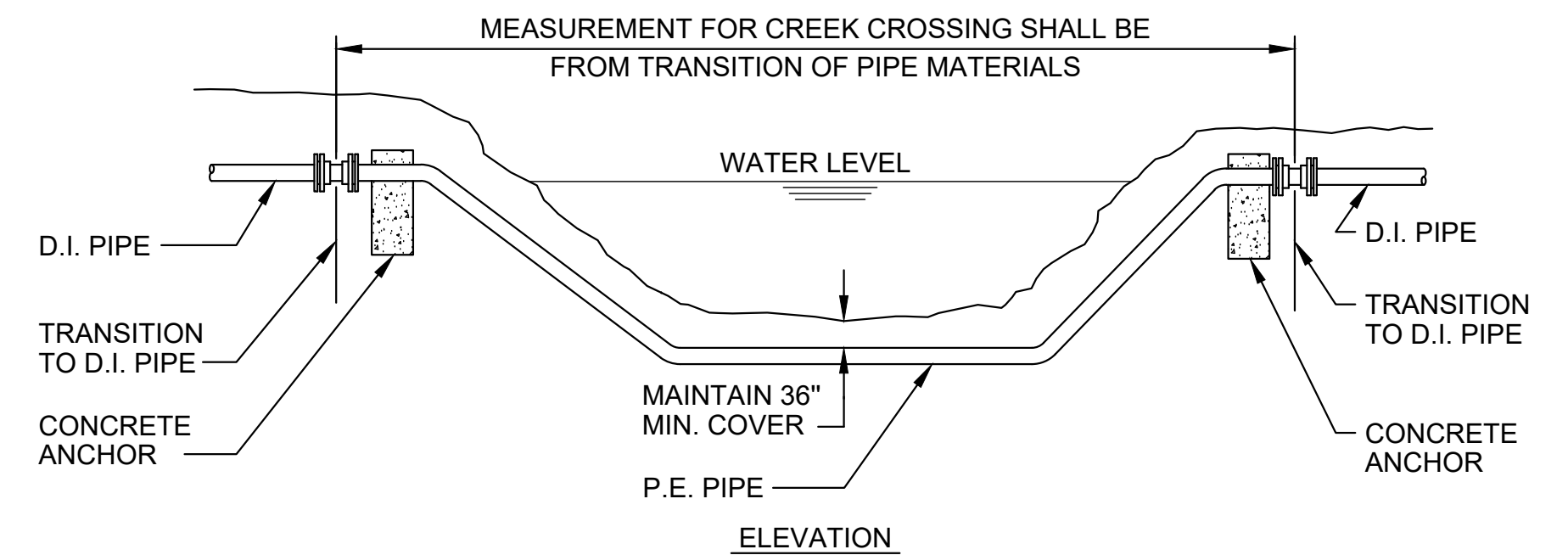
TYPE "A" STREAM CROSSING

GRAVEL OR DIRT BOTTOM W/ GRAVEL CAP
 SCALE: N.T.S.



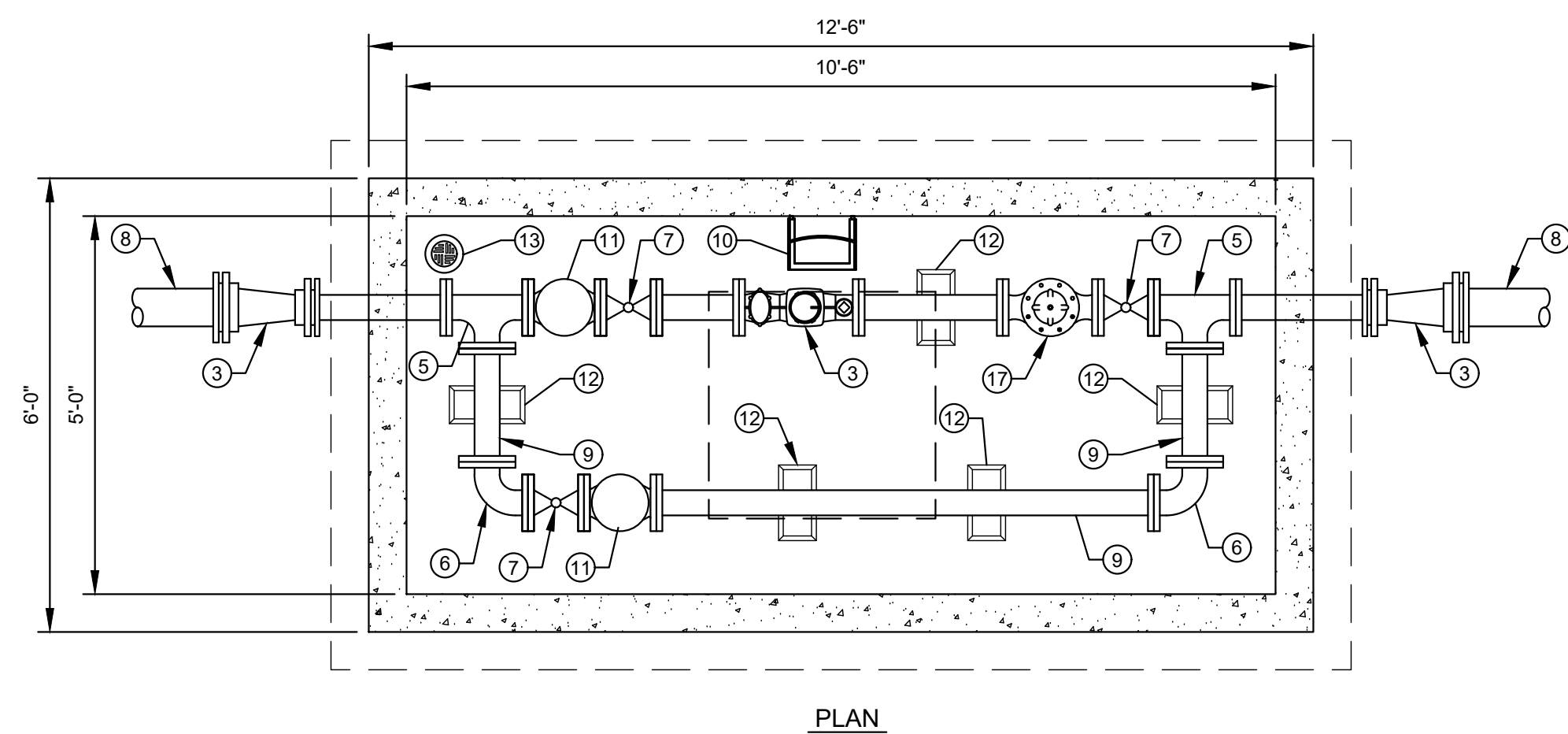
TYPE "B" STREAM CROSSING

SOLID ROCK BOTTOM WITH CONCRETE CAP.
 SCALE: N.T.S.

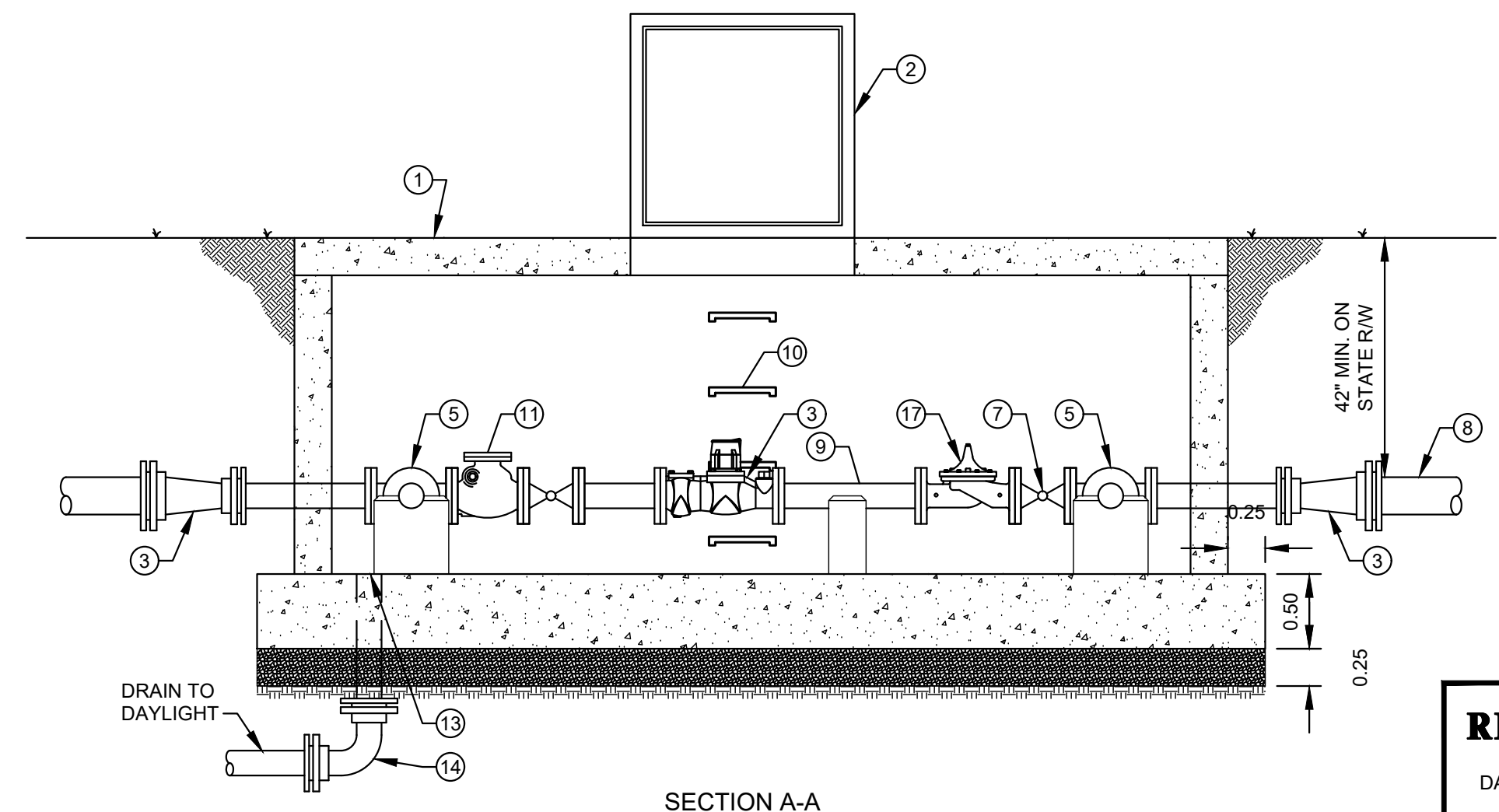


DIRECTIONAL BORE CREEK CROSSING

SCALE: N.T.S.



- LEGEND**
- ① PRECAST CONCRETE VALVE VAULT
 - ② 36"x36" ALUMINUM ACCESS HATCH
 - ③ 4" RECORDALL TURBO METER WITH INTEGRAL STRAINER
 - ④ 6"x4" M.J. REDUCER
 - ⑤ 4"x4"x4" FL. TEE
 - ⑥ 4" 90° FL. BEND
 - ⑦ 4" GATE VALVE
 - ⑧ 6" WATER MAIN
 - ⑨ 4" SPOOL PIECE
 - ⑩ MANHOLE STEP
 - ⑪ 4" CHECK VALVE
 - ⑫ CONCRETE SUPPORT BLOCK
 - ⑬ 4" FLOOR DRAIN
 - ⑭ 4" M.J. 90° BEND
 - ⑮ COMPACTED #57 D.G.A.
 - ⑯ UNDISTURBED EARTH
 - ⑰ 4" CLA-VAL PRESSURE REDUCING VALVE



MASTER METER

SCALE: N.T.S.

RECORD DRAWINGS

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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467 DATE: 3/26/2020
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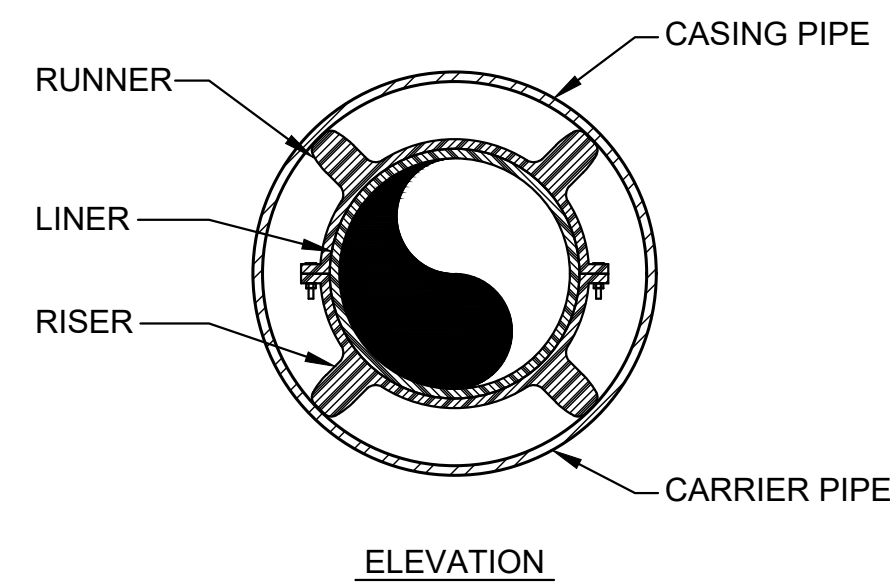
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2020 WATER LINE IMPROVEMENTS
LARUE COUNTY #1 WATER DISTRICT
LARUE COUNTY, KENTUCKY

STANDARD DETAILS

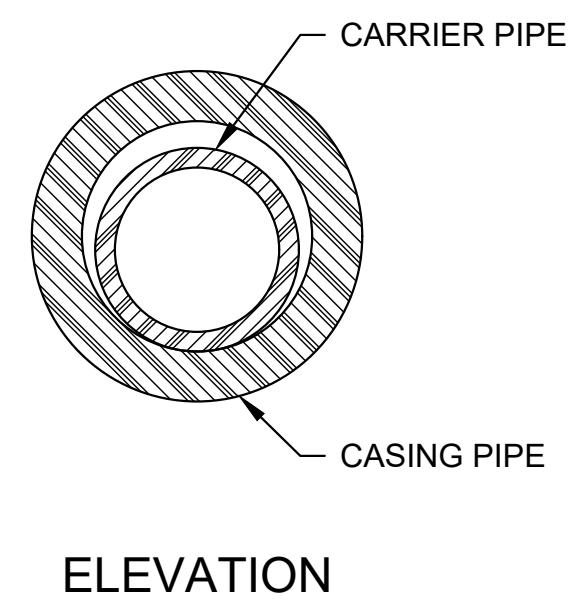
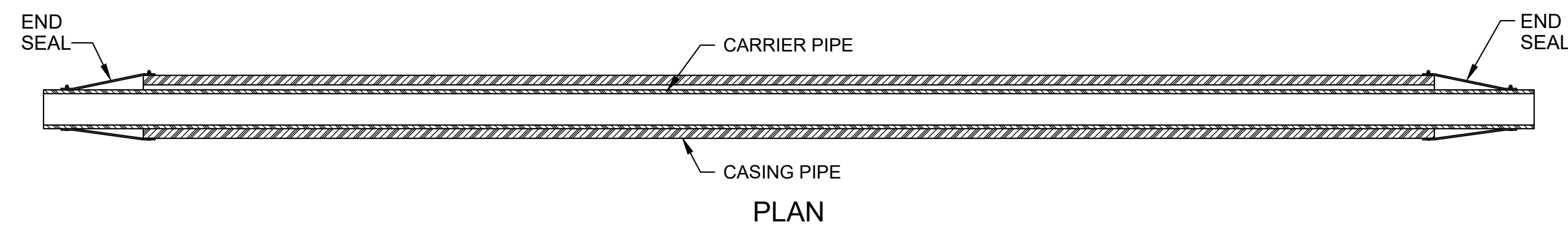
SHEET
 SD3
 OF
 SD5



1. ALL JOINTS SHALL BE SOLIDLY WELDED. END CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
2. MINIMUM DEPTHS MAY INCREASE IN AREA WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
3. OPEN TRENCH NO CLOSER THAN THE DITCH LINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY STATE, COUNTY OR MUNICIPAL SPECIFICATIONS.
4. HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES 4" AND LESS SHALL BE NEW SCHEDULE 40. STEEL CASING PIPES LARGER THE 4" SHALL HAVE MINIMUM WALL THICKNESS OF 0.25". ALL BORED AND JACKED ENCASEMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THAN THE OUTSIDE DIAMETER OF THE ENCASEMENT PIPE.

1. END CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
2. CONCRETE CAP SHALL END A MINIMUM OF ONE FOOT FROM EDGE OF CASING PIPE.
3. STREAM CROSSINGS SHALL UTILIZE PVC SDR-35 CASING PIPE.

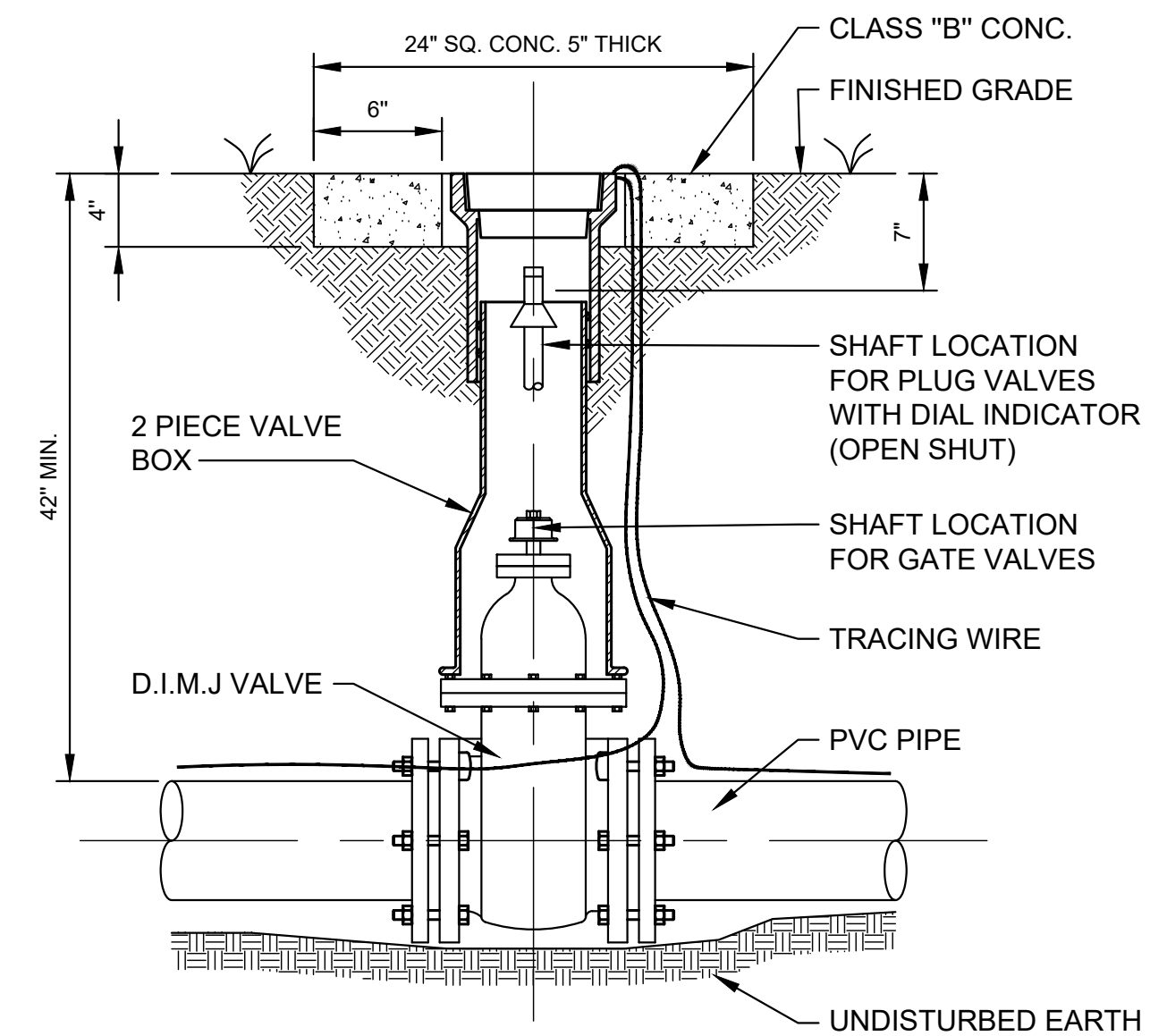
SCALE: N.T.S.



1. ALL JOINTS SHALL BE SOLIDLY WELDED. END CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
2. MINIMUM DEPTHS MAY INCREASE IN AREA WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
3. OPEN TRENCH NO CLOSER THAN THE DITCH LINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY STATE, COUNTY OR MUNICIPAL SPECIFICATIONS.
4. HIGHWAY CROSSINGS SHALL UTILIZE HDPE CASING PIPE. HDPE CASING PIPE CLASSIFICATION SHALL BE DETERMINED BY THE ENGINEER. ALL DIRECTIONAL BORE ENCASEMENT SHALL BE INSTALLED IN BORE HOLES NO LARGER THAN THE OUTSIDE DIAMETER OF THE HDPE ENCASEMENT PIPE.

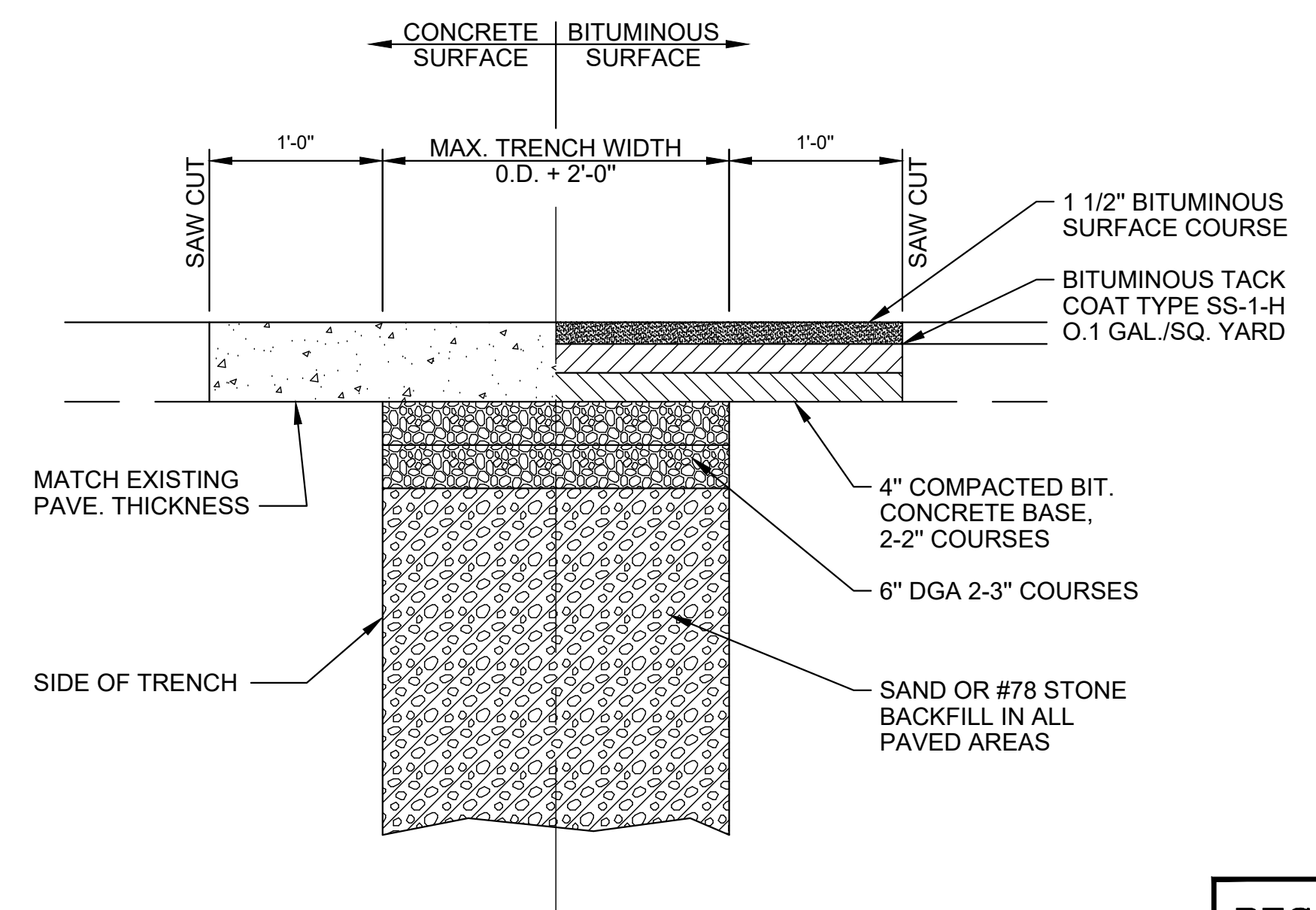
1. ALL JOINTS SHALL BE SOLIDLY WELDED. END CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
2. CONCRETE ANCHORS SHALL BE INSTALLED AS SHOWN ON DIRECTIONAL BORE DETAIL.
3. STREAM CROSSINGS SHALL UTILIZE HDPE CASING PIPE. CLASSIFICATION SHALL BE DETERMINED BY THE ENGINEER.

SCALE: N.T.S.



1. NO EXTRA PAY ALLOWED FOR CONCRETE COLLAR
2. CONCRETE PAD SHALL BE SQUARE
3. CONCRETE PAD REQUIRED ON ALL VALVES

SCALE: N.T.S.



SCALE: N.T.S.

RECORD DRAWINGS

DATE: 07/19/2021

REVISED BY: JH

DATE REVISED: 07/19/2021

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PROJECT: 467 DATE: 3/26/2020
SCALE: AS NOTED

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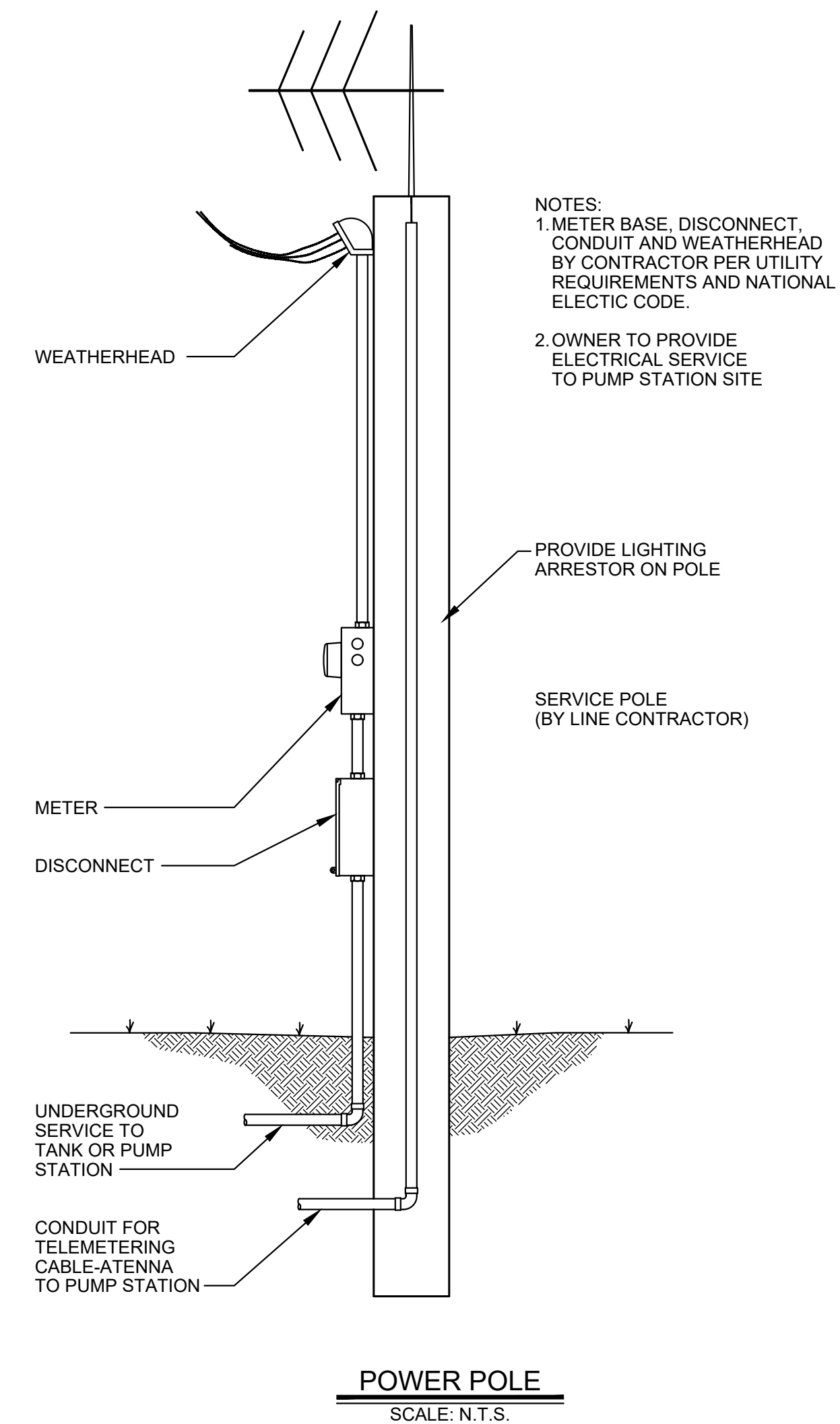
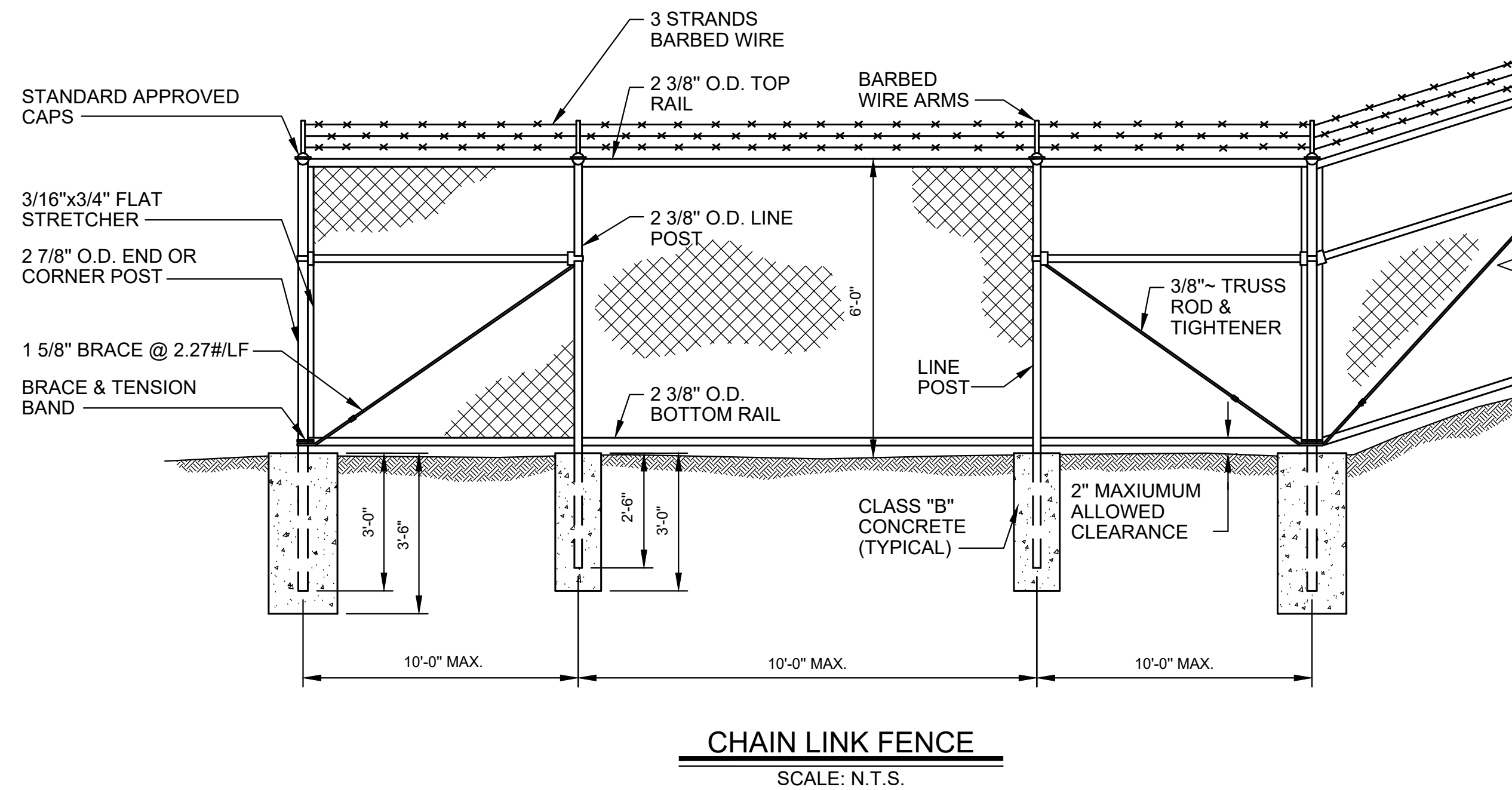
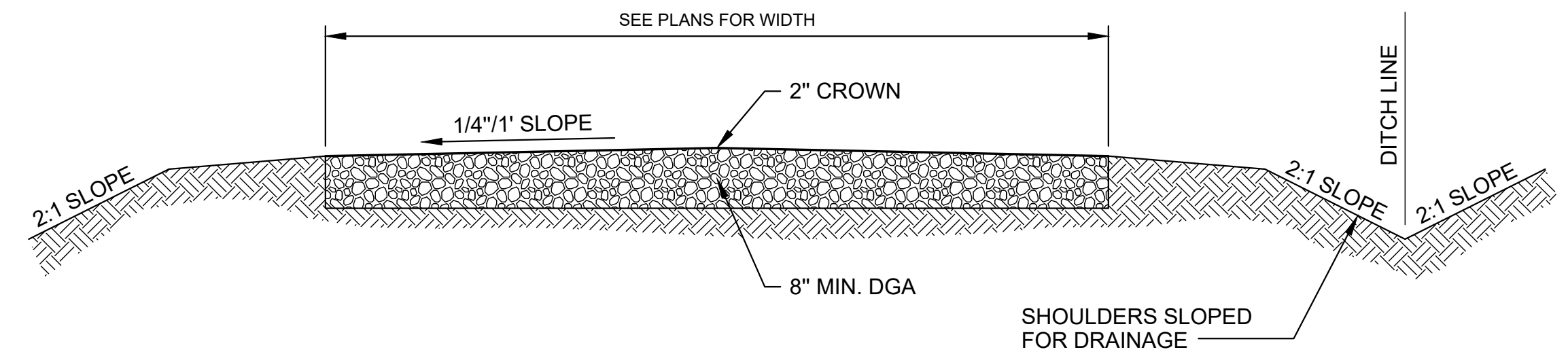
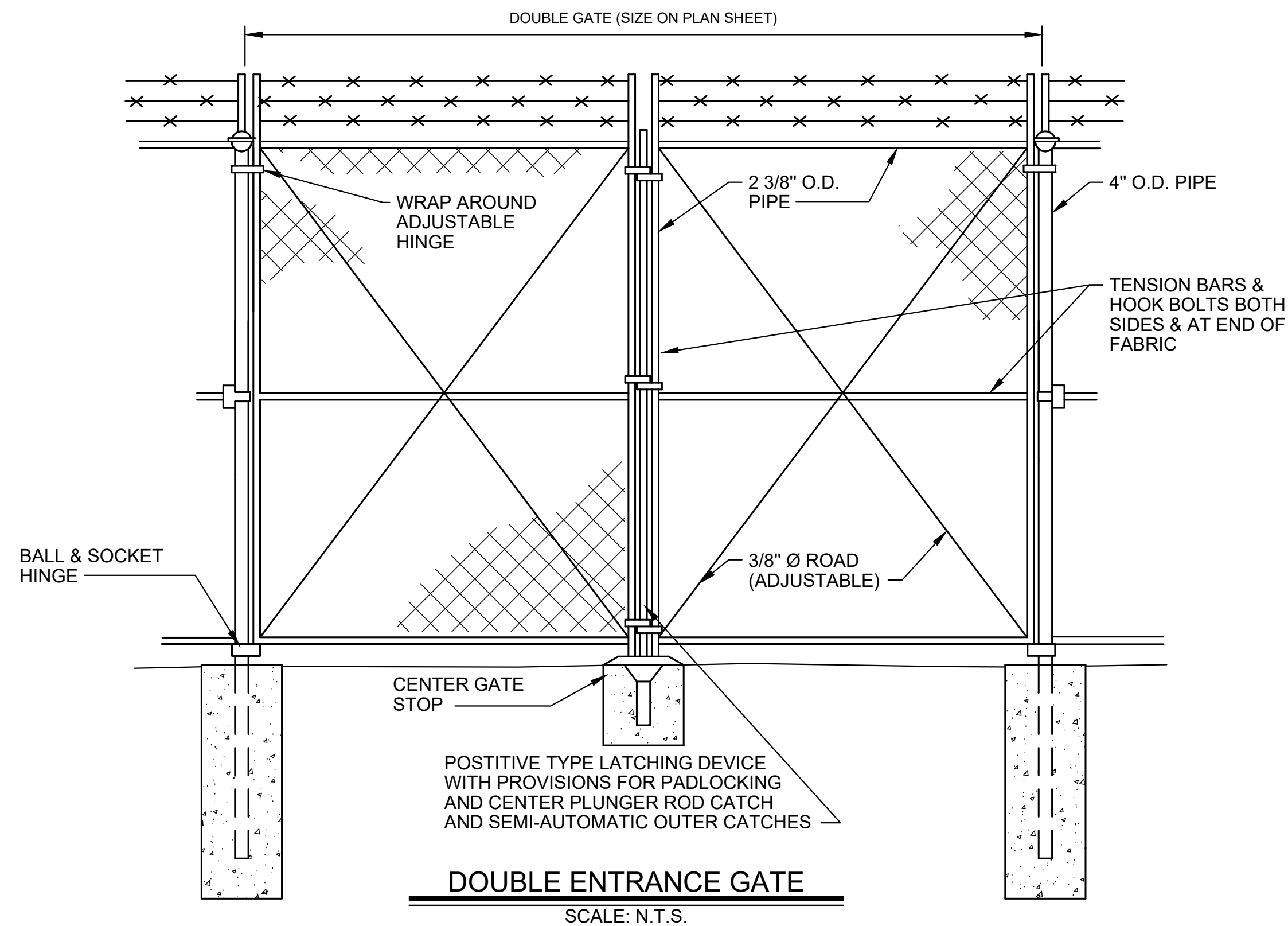
**2020 WATER LINE IMPROVEMENTS
LARUE COUNTY #1 WATER DISTRICT
LARUE COUNTY, KENTUCKY**

STANDARD DETAILS

SD4

OF


SD5



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STANDARD DETAILS