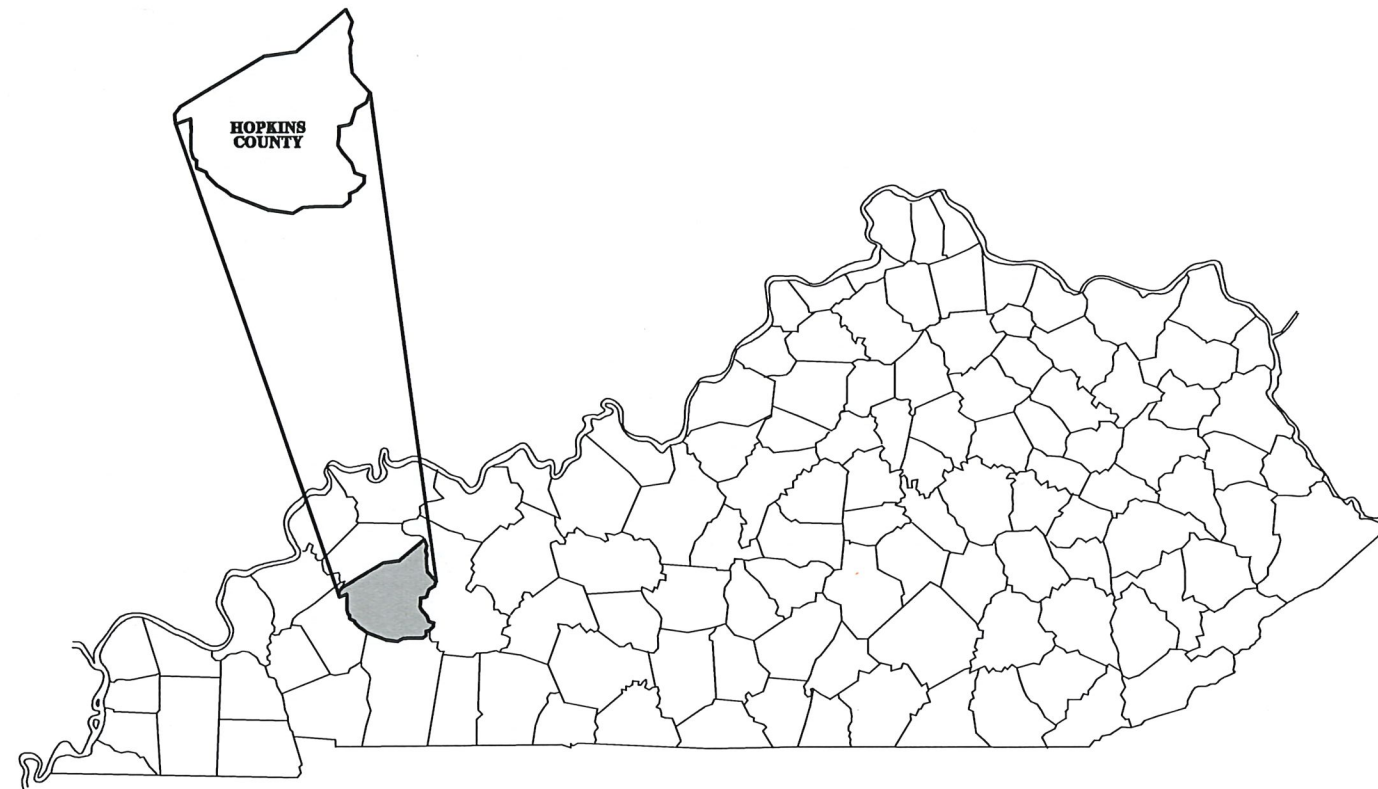

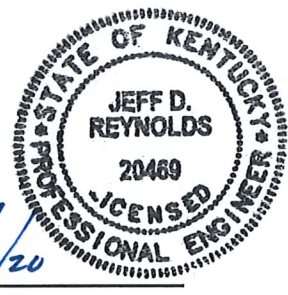


# WATER SYSTEM IMPROVEMENTS PROJECT NORTH HOPKINS WATER DISTRICT HOPKINS COUNTY, KENTUCKY CONTRACT I - WATER LINE & PUMP STATION

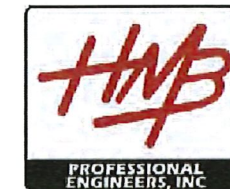


**MARCH 2020**

  
JEFF D. REYNOLDS, P.E.  
KENTUCKY REGISTRATION NO. 20,469



Plans Prepared By:



3 HMB Circle (502)895-9800  
Frankfort, Kentucky Fax (502)895-9810

## GENERAL NOTES

UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INVOLVED, BUT NOT LIMITED TO, TEES, BENDS, PLUGS, REDUCERS, SADDLES, CROSSES, COUPLINGS, ETC. CONTRACTOR SHALL INCLUDE THE COST OF THESE ITEMS IN THE UNIT PRICE FOR THE PIPE.

NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN SET UP. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS UNIT PRICE WHEN THE WATER PIPE CROSSES UNDER AN EXISTING UTILITY, CULVERT OR DRAINAGE DITCH.

FINAL LOCATION OF SERVICES, GATE VALVES AND OTHER APPURTENANCES ARE TO BE FIELD LOCATED DURING CONSTRUCTION AND APPROVED BY THE ENGINEER.

EXISTING UTILITIES, ESPECIALLY GAS LINES AND OIL LINES, MAY BE CATHODICALLY PROTECTED, THEREFORE, DUCTILE IRON PIPE, FITTINGS GATE VALVES, AND/OR BOXES LAID WITHIN 100' OF THESE LINES WITH CATHODIC PROTECTION SHALL MEET THE REQUIREMENTS OF AWWA C-105, LATEST REVISION. A SEPARATE PAY ITEM HAS NOT BEEN ESTABLISHED. ALL COSTS FOR LABOR AND MATERIALS MUST BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.

ALL DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN THE EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.

THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THE LOCATIONS OF ANY AND ALL UTILITIES ENCOUNTERED BY THE FINAL ALIGNMENT OF WATERLINE. THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THE EXISTING UTILITIES TO KEEP THEM IN SERVICE. IF UTILITIES ARE SHOWN, THE INFORMATION IS GENERAL IN NATURE AND NOT TO BE TAKEN AS AS-BUILTS. CONTRACTOR SHALL CONTACT REPRESENTATIVES OF LOCAL UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING WORK ON THE PROJECT.

ALL WATER MAINS SHALL BE PVC CLASS 200 SDR 21 UNLESS OTHERWISE NOTED ON THE PLANS.

AT THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUBSTITUTED FOR ANY PIPE PARTICULARLY SPECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.

PROVIDE 40" MINIMUM COVER FOR ALL WATER MAINS PLACED WITHIN UNPAVED COUNTY ROADS OR IN DITCH LINES.

REASONABLE CARE SHALL BE TAKEN BY THE CONTRACTOR DURING CONSTRUCTION TO AVOID DAMAGE TO EXISTING VEGETATION. ORNAMENTAL SHRUBBERY AND TREE BRANCHES SHALL BE TEMPORARILY TIED BACK, WHERE APPROPRIATE, TO MINIMIZE DAMAGE. TREES THAT RECEIVE DAMAGE TO BRANCHES SHALL BE TRIMMED OF THOSE BRANCHES TO IMPROVE THE APPEARANCE OF THE TREE. TREE TRUNKS RECEIVING DAMAGE FROM EQUIPMENT SHALL BE TREATED WITH A TREE DRESSING. PROPERTY OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY ALTERATION TO EXISTING TREES AND/OR LANDSCAPING ON THEIR PROPERTY.

THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS PRIOR TO PERFORMING DRIVEWAY CUTS IN ORDER TO PROVIDE PROPERTY OWNER ACCESS TO THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL INSTALL THESE DRIVEWAY CROSSINGS WITH EXPEDIENCE AND SHALL RESTORE THE DRIVEWAY AS SOON AS POSSIBLE.

ALL PAVED AND CONCRETE SURFACES, INCLUDING DRIVEWAYS, CROSSED BY THE PROPOSED WATER MAINS SHALL BE BORED AND JACKED (UNCASED).

ALL TEES AND BENDS SHALL BE THRUST BLOCKED AS DETAILED ON THE THRUST BLOCK DETAIL SHEET. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.

SEPTIC SYSTEMS NOTED WHERE PROPERTY OWNER NOTIFIED US. ALL MAY NOT BE SHOWN. CONTRACTOR TO USE CAUTION IN THESE AREAS. WATER MAIN TO BE ENCASED IN CONCRETE WHEN LAID WITHIN 10' OF DRAIN LINES OR FIELD. SEE DETAIL AND NOTE ON STANDARD DETAIL SHEET.

UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR CONNECTIONS TO EXISTING SYSTEM. CONTRACTOR SHALL INCLUDE COST OF CONNECTIONS TO EXISTING SYSTEM IN THE UNIT PRICE FOR THE PIPE.

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN IMMEDIATELY AFTER INSTALLING WATER LINE WHERE MAIN IS TO BE LAID ON STATE RIGHT-OF-WAY.

GRIP RING RESTRAINTS SHALL BE USED ON ALL M.J. FITTINGS.

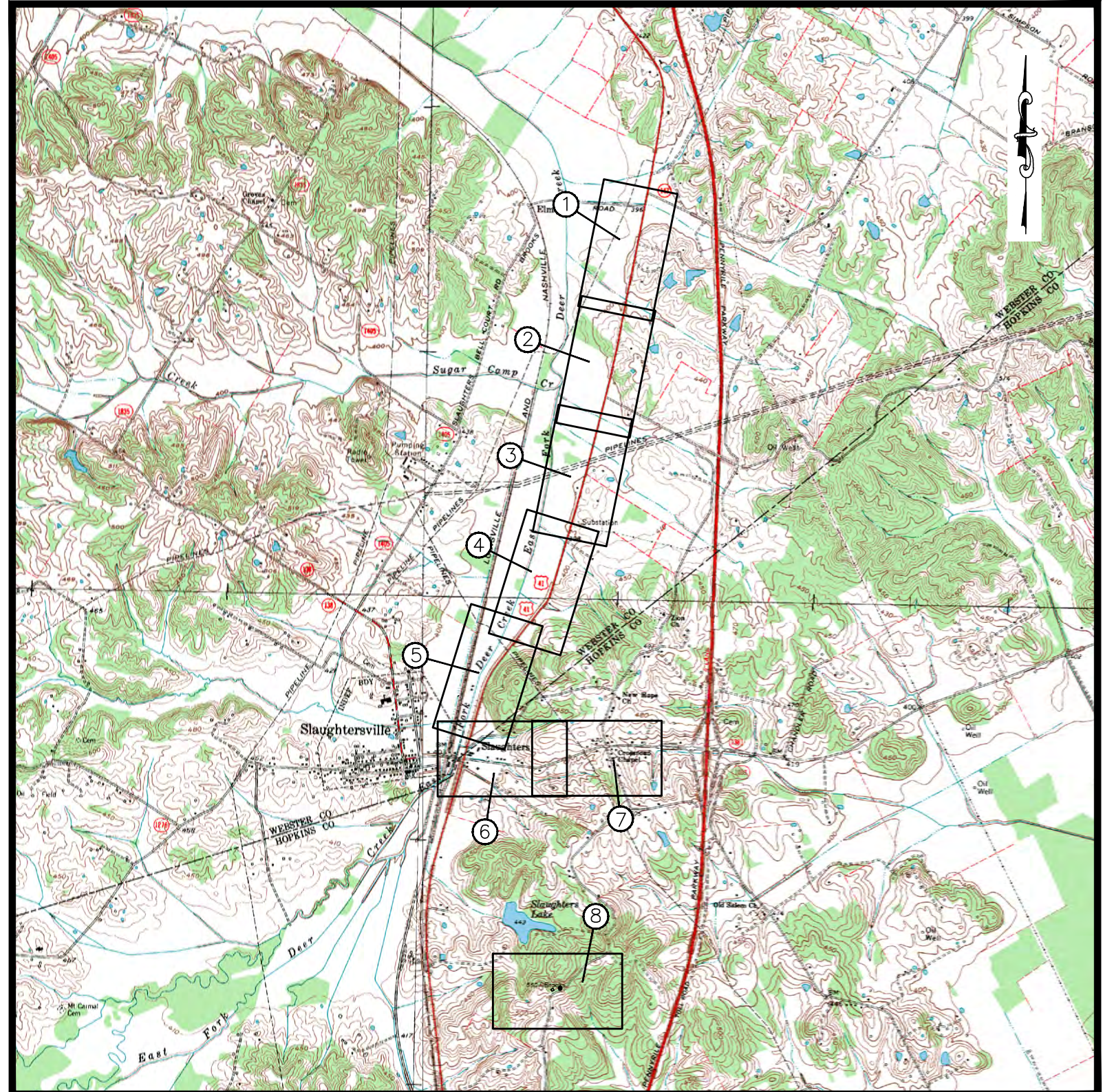
THE FOLLOWING GENERAL NOTES ARE REQUIREMENTS OF THE COMMONWEALTH OF KENTUCKY TRANSPORTATION CABINET PERMIT ENGINEERS. THESE NOTES APPLY WHEN LAYING WATER LINE IN STATE RIGHT-OF-WAY:

ALL WATER LINES BEING PLACED ABOVE CROSS DRAINS NEED TO HAVE AT LEAST ONE (1) FOOT OF SOIL MATERIAL AS A CUSHION BETWEEN LINE AND THE CROSS DRAIN CULVERT. SEE UTILITY CROSSING DETAIL.

ALL PROPOSED WATER LINES TO BE PLACED BEHIND ALL PRIVATE AND COMMERCIAL ENTRANCE CULVERTS.

ALL PROPOSED WATER LINES TO BE PLACED AT BACK OF DITCH LINE IN TIGHT AREAS.

BORE PITS AND TRENCHES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.



**TOPOGRAPHIC MAP**

SCALE : N.T.S.

### SHEET INDEX

GN1	GENERAL NOTES
1 - 8	HIGHWAY 41
9	SURVEY PLAT
10	SITE PLAN
11	BOOSTER PUMP STATION
SD1 - SD3	STANDARD DETAILS

### LEGEND

PROPOSED WATER LINE	
EXISTING WATER LINE	
PROPOSED GATE VALVE	
EXISTING GATE VALVE	
AUTOMATIC AIR RELEASE VALVE	
FIRE HYDRANT	
PROPERTY LINE	
BLOWOFF ASSEMBLY	
FENCE	

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01 DATE: FEB. 2018  
SCALE: N.T.S.

DESIGNED BY	NAME	DATE
JDR	JDR	
SAB	SAB	
JDR	JDR	
RECORD DWGS.		

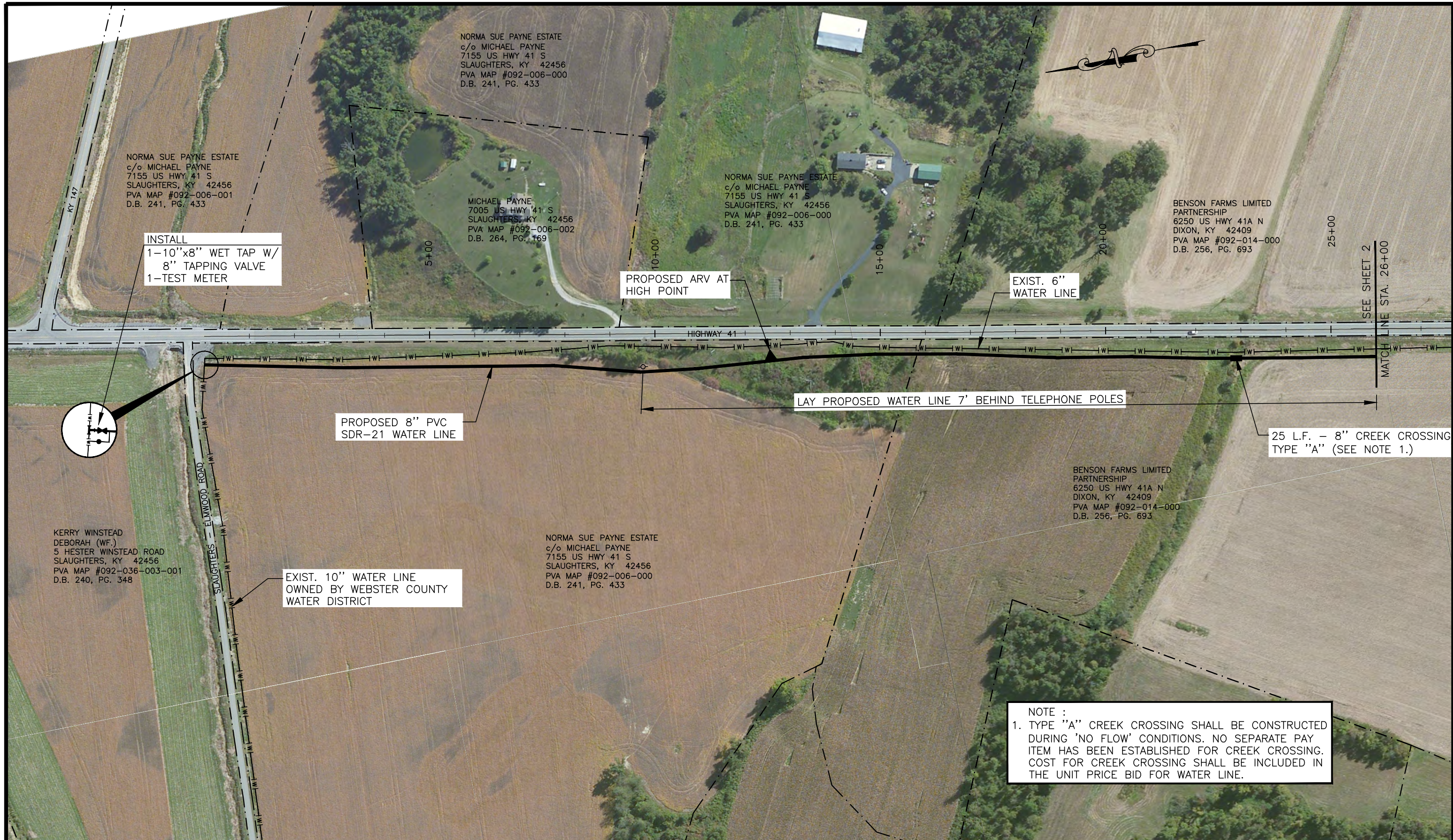


3 HMB CIRCLE  
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(502) 695-9810 FAX

**WATER SYSTEM IMPROVEMENTS PROJECT  
NORTH HOPKINS WATER DISTRICT  
HOPKINS COUNTY, KENTUCKY**

**GENERAL NOTES / LEGEND / SHEET INDEX /  
TOPOGRAPHIC MAP**

SHEET  
GN1



INSTALL  
 1-10"x8" WET TAP W/  
 8" TAPPING VALVE  
 1-TEST METER

PROPOSED ARV AT  
 HIGH POINT

EXIST. 6"  
 WATER LINE

LAY PROPOSED WATER LINE 7' BEHIND TELEPHONE POLES

PROPOSED 8" PVC  
 SDR-21 WATER LINE

25 L.F. - 8" CREEK CROSSING  
 TYPE "A" (SEE NOTE 1.)

EXIST. 10" WATER LINE  
 OWNED BY WEBSTER COUNTY  
 WATER DISTRICT

NOTE :  
 1. TYPE "A" CREEK CROSSING SHALL BE CONSTRUCTED  
 DURING 'NO FLOW' CONDITIONS. NO SEPARATE PAY  
 ITEM HAS BEEN ESTABLISHED FOR CREEK CROSSING.  
 COST FOR CREEK CROSSING SHALL BE INCLUDED IN  
 THE UNIT PRICE BID FOR WATER LINE.

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01 DATE: FEB. 2018  
 SCALE: 1" = 200'

DESIGNED BY	NAME	DATE
JDR	JDR	
DRAWN BY	SAB	
CHECKED BY	JDR	
RECORD DWGS.		



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**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

---

**HIGHWAY 41 - STA. 0+00 TO STA. 26+00**

SHEET  
 1



BENSON FARMS LIMITED PARTNERSHIP  
 6250 US HWY 41A N  
 DIXON, KY 42409  
 PVA MAP #092-014-000  
 D.B. 256, PG. 693

BRUCE ALLEN BENSON  
 P.O. BOX 54  
 SLAUGHTERS, KY 42456  
 PVA MAP #092-015-000  
 D.B. 272, PG. 054

BENSON FARMS LIMITED PARTNERSHIP  
 6250 US HWY 41A N  
 DIXON, KY 42409  
 PVA MAP #092-017-000  
 D.B. 256, PG. 693

BRUCE BENSON  
 TERESA DAME  
 P.O. BOX 54  
 SLAUGHTERS, KY 42456  
 PVA MAP #092-020-000  
 D.B. 162, PG. 599

BENSON FARMS LIMITED PARTNERSHIP  
 6250 US HWY 41A N  
 DIXON, KY 42409  
 PVA MAP #092-014-000  
 D.B. 256, PG. 693

BRUCE ALLEN BENSON  
 P.O. BOX 54  
 SLAUGHTERS, KY 42456  
 PVA MAP #092-015-000  
 D.B. 272, PG. 054

BENSON FARMS LIMITED PARTNERSHIP  
 6250 US HWY 41A N  
 DIXON, KY 42409  
 PVA MAP #092-017-000  
 D.B. 256, PG. 693

BRUCE BENSON  
 TERESA DAME  
 P.O. BOX 54  
 SLAUGHTERS, KY 42456  
 PVA MAP #092-020-000  
 D.B. 162, PG. 599

NOTE :  
 1. TYPE "A" CREEK CROSSING SHALL BE CONSTRUCTED DURING 'NO FLOW' CONDITIONS. NO SEPARATE PAY ITEM HAS BEEN ESTABLISHED FOR CREEK CROSSING. COST FOR CREEK CROSSING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER LINE.

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01	DATE: FEB. 2018				
SCALE: 1" = 200'					
DESIGNED BY	JDR	NAME	JDR	DATE	
DRAWN BY	SAB	NAME	SAB	DATE	
CHECKED BY	JDR	NAME	JDR	DATE	
RECORD DWGS.		NAME		DATE	

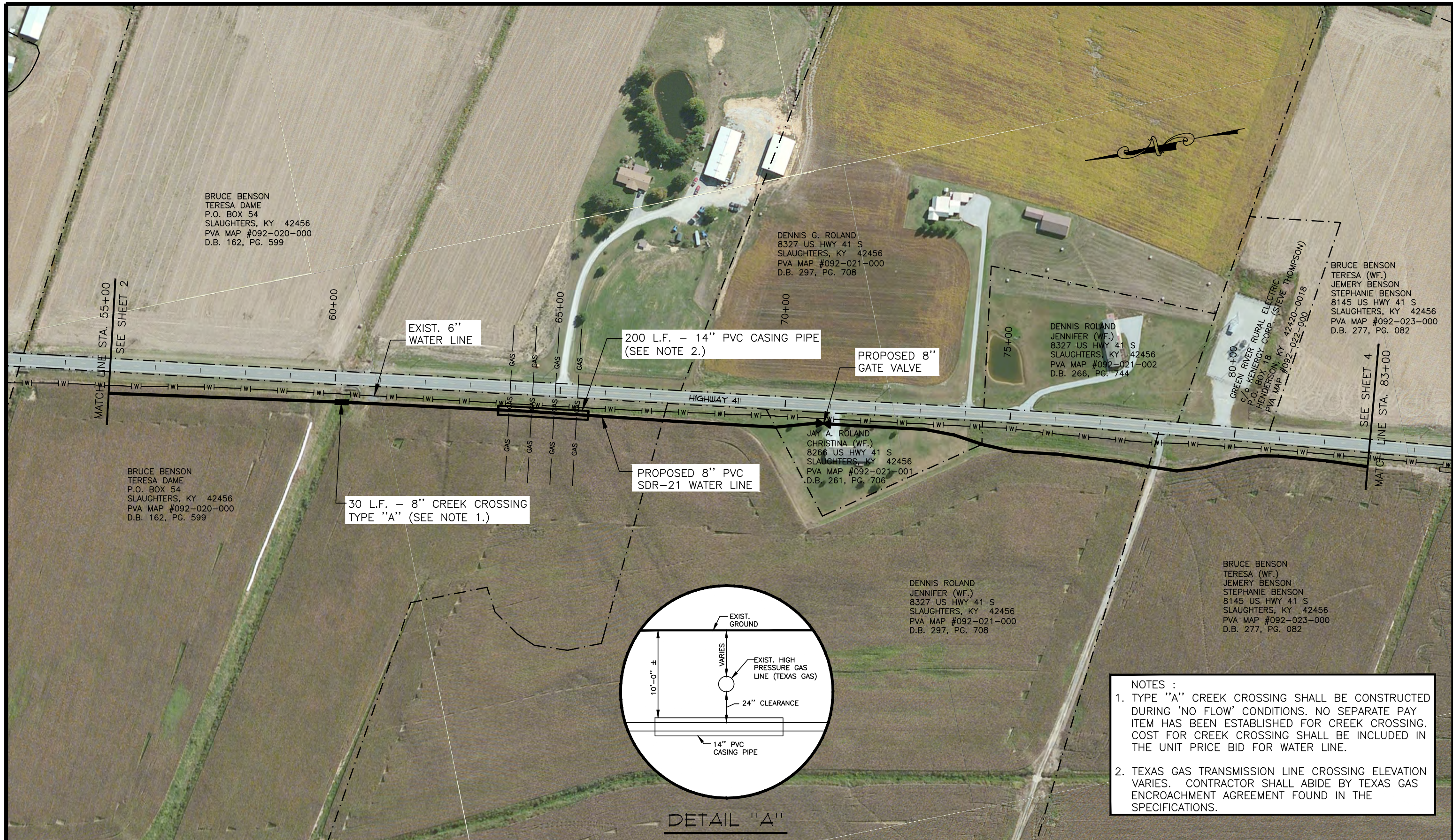


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 (502) 695-9810 FAX

**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

---

**HIGHWAY 41 - STA. 26+00 TO STA. 55+00**



BRUCE BENSON  
TERESA DAME  
P.O. BOX 54  
SLAUGHTERS, KY 42456  
PVA MAP #092-020-000  
D.B. 162, PG. 599

DENNIS G. ROLAND  
8327 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-021-000  
D.B. 297, PG. 708

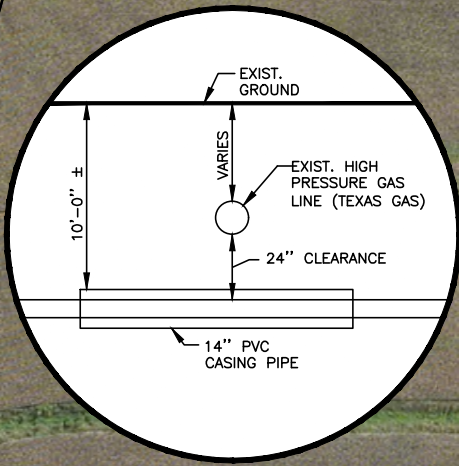
BRUCE BENSON  
TERESA (WF.)  
JEMERY BENSON  
STEPHANIE BENSON  
8145 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-023-000  
D.B. 277, PG. 082

DENNIS ROLAND  
JENNIFER (WF.)  
8327 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-021-002  
D.B. 266, PG. 744

JAY A. ROLAND  
CHRISTINA (WF.)  
8266 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-021-001  
D.B. 261, PG. 706

DENNIS ROLAND  
JENNIFER (WF.)  
8327 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-021-000  
D.B. 297, PG. 708

BRUCE BENSON  
TERESA (WF.)  
JEMERY BENSON  
STEPHANIE BENSON  
8145 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-023-000  
D.B. 277, PG. 082



DETAIL "A"

NOTES :

- TYPE "A" CREEK CROSSING SHALL BE CONSTRUCTED DURING 'NO FLOW' CONDITIONS. NO SEPARATE PAY ITEM HAS BEEN ESTABLISHED FOR CREEK CROSSING. COST FOR CREEK CROSSING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER LINE.
- TEXAS GAS TRANSMISSION LINE CROSSING ELEVATION VARIES. CONTRACTOR SHALL ABIDE BY TEXAS GAS ENCROACHMENT AGREEMENT FOUND IN THE SPECIFICATIONS.

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01	DATE: FEB. 2018
SCALE: 1" = 200'	
DESIGNED BY	JDR
DRAWN BY	SAB
CHECKED BY	JDR
RECORD DWGS.	



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
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**WATER SYSTEM IMPROVEMENTS PROJECT  
NORTH HOPKINS WATER DISTRICT  
HOPKINS COUNTY, KENTUCKY**

**HIGHWAY 41 - STA. 55+00 TO STA. 83+00**



BRUCE BENSON  
TERESA (WF.)  
JEMERY BENSON  
STEPHANIE BENSON  
8145 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-023-000  
D.B. 277, PG. 082

ROBERT NEWMAN  
CHERI (WF.)  
8645 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-024-000  
D.B. 205, PG. 267

WILLIAM DALE DENT TRUST  
c/o D WILSON/A GLAHN TRUSTEES  
1525 DEAN AVENUE  
OWENSBORO, KY 42301  
PVA MAP #092-025-000  
D.B. 274, PG. 433

RITA MAJOR DENT  
736 NEW HOPE ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #092-028-000  
D.B. 156, PG. 174

BRUCE BENSON  
TERESA (WF.)  
JEMERY BENSON  
STEPHANIE BENSON  
8145 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-023-000  
D.B. 277, PG. 082

ELBERT E. ASHBY FAMILY TRUST  
EDWARD T. ASHBY  
c/o EDWARD T. ASHBY  
758 HESMER ROAD  
EVANSVILLE, IN 47711  
PVA MAP #092-025-001  
D.B. 286, PG. 210

RITA MAJOR DENT  
736 NEW HOPE ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #092-028-000  
D.B. 156, PG. 174

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01		DATE: FEB. 2018	
SCALE: 1" = 200'			
DESIGNED BY	JDR	NAME	DATE
DRAWN BY	SAB		
CHECKED BY	JDR		
RECORD DWGS.			

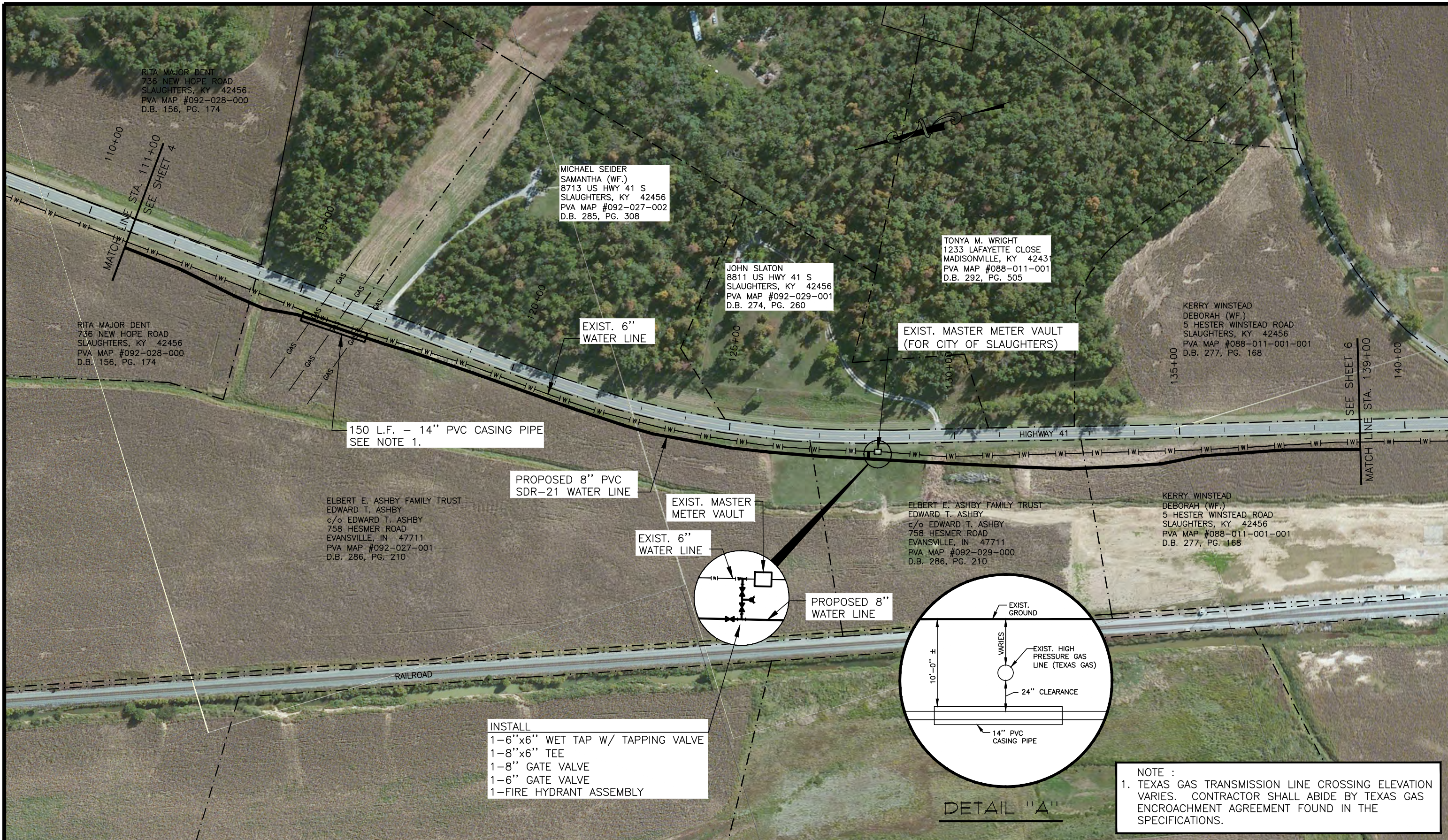


3 HMB CIRCLE  
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(502) 695-9810 FAX

**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

---

**HIGHWAY 41 - STA. 83+00 TO STA. 111+00**



RITA MAJOR DENT  
736 NEW HOPE ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #092-028-000  
D.B. 156, PG. 174

MICHAEL SEIDER  
SAMANTHA (WF.)  
8713 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-027-002  
D.B. 285, PG. 308

JOHN SLATON  
8811 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #092-029-001  
D.B. 274, PG. 260

TONYA M. WRIGHT  
1233 LAFAYETTE CLOSE  
MADISONVILLE, KY 42431  
PVA MAP #088-011-001  
D.B. 292, PG. 505

KERRY WINSTEAD  
DEBORAH (WF.)  
5 HESTER WINSTEAD ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #088-011-001-001  
D.B. 277, PG. 168

RITA MAJOR DENT  
736 NEW HOPE ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #092-028-000  
D.B. 156, PG. 174

ELBERT E. ASHBY FAMILY TRUST  
EDWARD T. ASHBY  
c/o EDWARD T. ASHBY  
758 HESMER ROAD  
EVANSVILLE, IN 47711  
PVA MAP #092-027-001  
D.B. 286, PG. 210

ELBERT E. ASHBY FAMILY TRUST  
EDWARD T. ASHBY  
c/o EDWARD T. ASHBY  
758 HESMER ROAD  
EVANSVILLE, IN 47711  
PVA MAP #092-029-000  
D.B. 286, PG. 210

KERRY WINSTEAD  
DEBORAH (WF.)  
5 HESTER WINSTEAD ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #088-011-001-001  
D.B. 277, PG. 168

150 L.F. - 14" PVC CASING PIPE  
SEE NOTE 1.

PROPOSED 8" PVC  
SDR-21 WATER LINE

EXIST. 6" WATER LINE

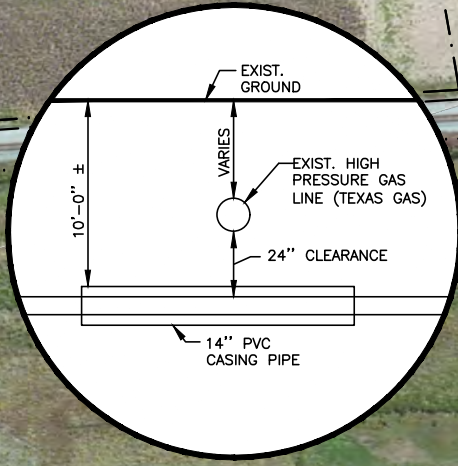
EXIST. MASTER METER VAULT

EXIST. 6" WATER LINE

PROPOSED 8" WATER LINE

EXIST. MASTER METER VAULT  
(FOR CITY OF SLAUGHTERS)

INSTALL  
1-6"x6" WET TAP W/ TAPPING VALVE  
1-8"x6" TEE  
1-8" GATE VALVE  
1-6" GATE VALVE  
1-FIRE HYDRANT ASSEMBLY



NOTE :  
1. TEXAS GAS TRANSMISSION LINE CROSSING ELEVATION VARIES. CONTRACTOR SHALL ABIDE BY TEXAS GAS ENCROACHMENT AGREEMENT FOUND IN THE SPECIFICATIONS.

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01	DATE: FEB. 2018
SCALE: 1" = 200'	
DESIGNED BY:	JDR
DRAWN BY:	SAB
CHECKED BY:	JDR
RECORD DWGS.	

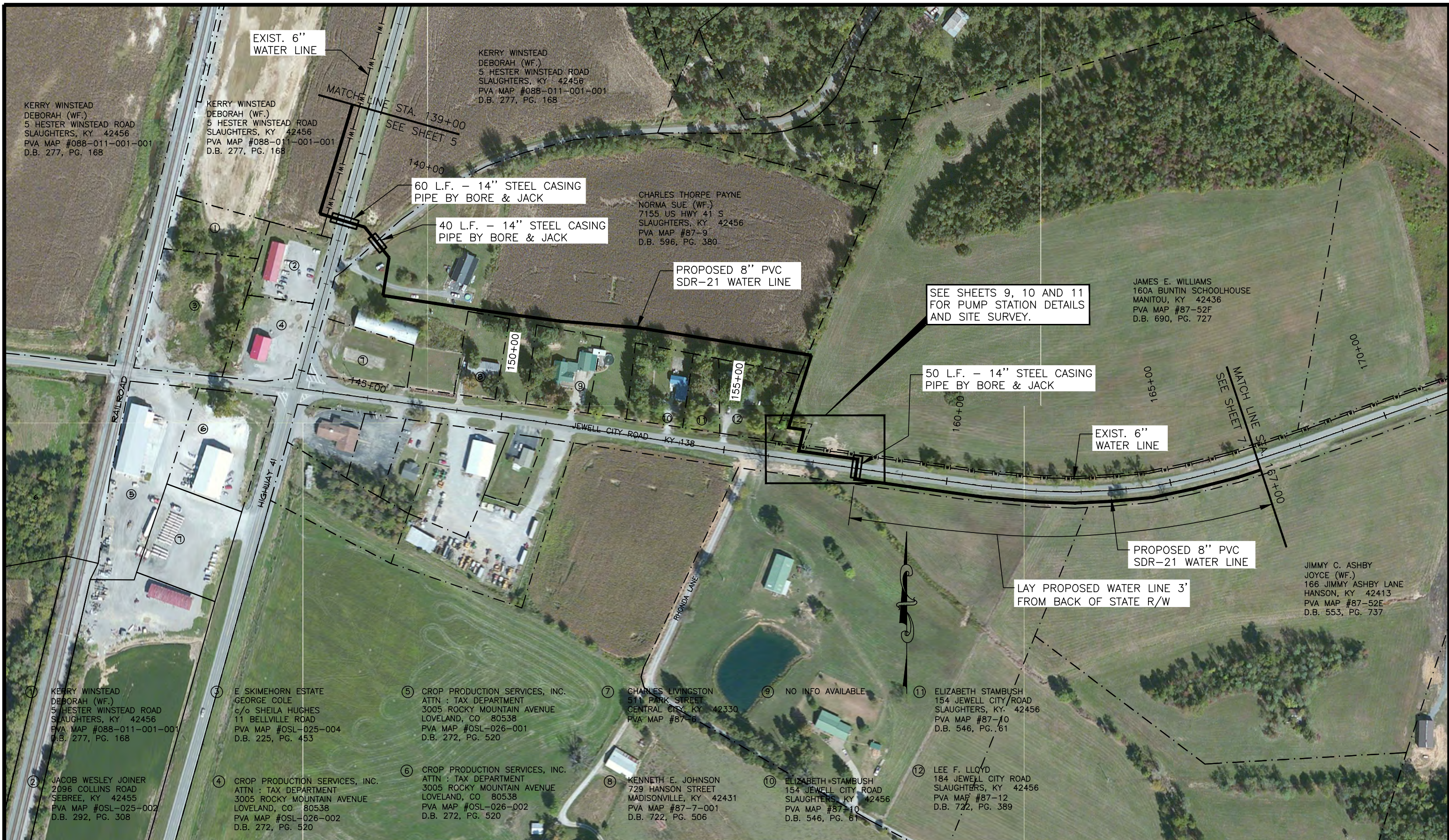


3 HMB CIRCLE  
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**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

**HIGHWAY 41 - STA. 111+00 TO STA. 139+00**

SHEET 5



KERRY WINSTEAD  
DEBORAH (WF.)  
5 HESTER WINSTEAD ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #088-011-001-001  
D.B. 277, PG. 168

KERRY WINSTEAD  
DEBORAH (WF.)  
5 HESTER WINSTEAD ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #088-011-001-001  
D.B. 277, PG. 168

KERRY WINSTEAD  
DEBORAH (WF.)  
5 HESTER WINSTEAD ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #088-011-001-001  
D.B. 277, PG. 168

CHARLES THORPE PAYNE  
NORMA SUE (WF.)  
7155 US HWY 41 S  
SLAUGHTERS, KY 42456  
PVA MAP #87-9  
D.B. 596, PG. 380

JAMES E. WILLIAMS  
160A BUNTIN SCHOOLHOUSE  
MANITOU, KY 42436  
PVA MAP #87-52F  
D.B. 690, PG. 727

JIMMY C. ASHBY  
JOYCE (WF.)  
166 JIMMY ASHBY LANE  
HANSON, KY 42413  
PVA MAP #87-52E  
D.B. 553, PG. 737

1 KERRY WINSTEAD  
DEBORAH (WF.)  
5 HESTER WINSTEAD ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #088-011-001-001  
D.B. 277, PG. 168

3 E SKIMEHORN ESTATE  
GEORGE COLE  
c/o SHEILA HUGHES  
11 BELLVILLE ROAD  
PVA MAP #OSL-025-004  
D.B. 225, PG. 453

5 CROP PRODUCTION SERVICES, INC.  
ATTN : TAX DEPARTMENT  
3005 ROCKY MOUNTAIN AVENUE  
LOVELAND, CO 80538  
PVA MAP #OSL-026-001  
D.B. 272, PG. 520

7 CHARLES LIVINGSTON  
511 PARK STREET  
CENTRAL KY, KY 42330  
PVA MAP #87-6

11 ELIZABETH STAMBUSH  
154 JEWELL CITY ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #87-10  
D.B. 546, PG. 61

2 JACOB WESLEY JOINER  
2096 COLLINS ROAD  
SEBREE, KY 42455  
PVA MAP #OSL-025-002  
D.B. 292, PG. 308

4 CROP PRODUCTION SERVICES, INC.  
ATTN : TAX DEPARTMENT  
3005 ROCKY MOUNTAIN AVENUE  
LOVELAND, CO 80538  
PVA MAP #OSL-026-002  
D.B. 272, PG. 520

6 CROP PRODUCTION SERVICES, INC.  
ATTN : TAX DEPARTMENT  
3005 ROCKY MOUNTAIN AVENUE  
LOVELAND, CO 80538  
PVA MAP #OSL-026-002  
D.B. 272, PG. 520

8 KENNETH E. JOHNSON  
729 HANSON STREET  
MADISONVILLE, KY 42431  
PVA MAP #87-7-001  
D.B. 722, PG. 506

10 ELIZABETH STAMBUSH  
154 JEWELL CITY ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #87-10  
D.B. 546, PG. 61

12 LEE F. LLOYD  
184 JEWELL CITY ROAD  
SLAUGHTERS, KY 42456  
PVA MAP #87-12  
D.B. 722, PG. 389

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01 DATE: FEB. 2018  
SCALE: 1" = 200'

DESIGNED BY	NAME	DATE
JDR	JDR	
SAB	SAB	
JDR	JDR	
RECORD DWGS.		

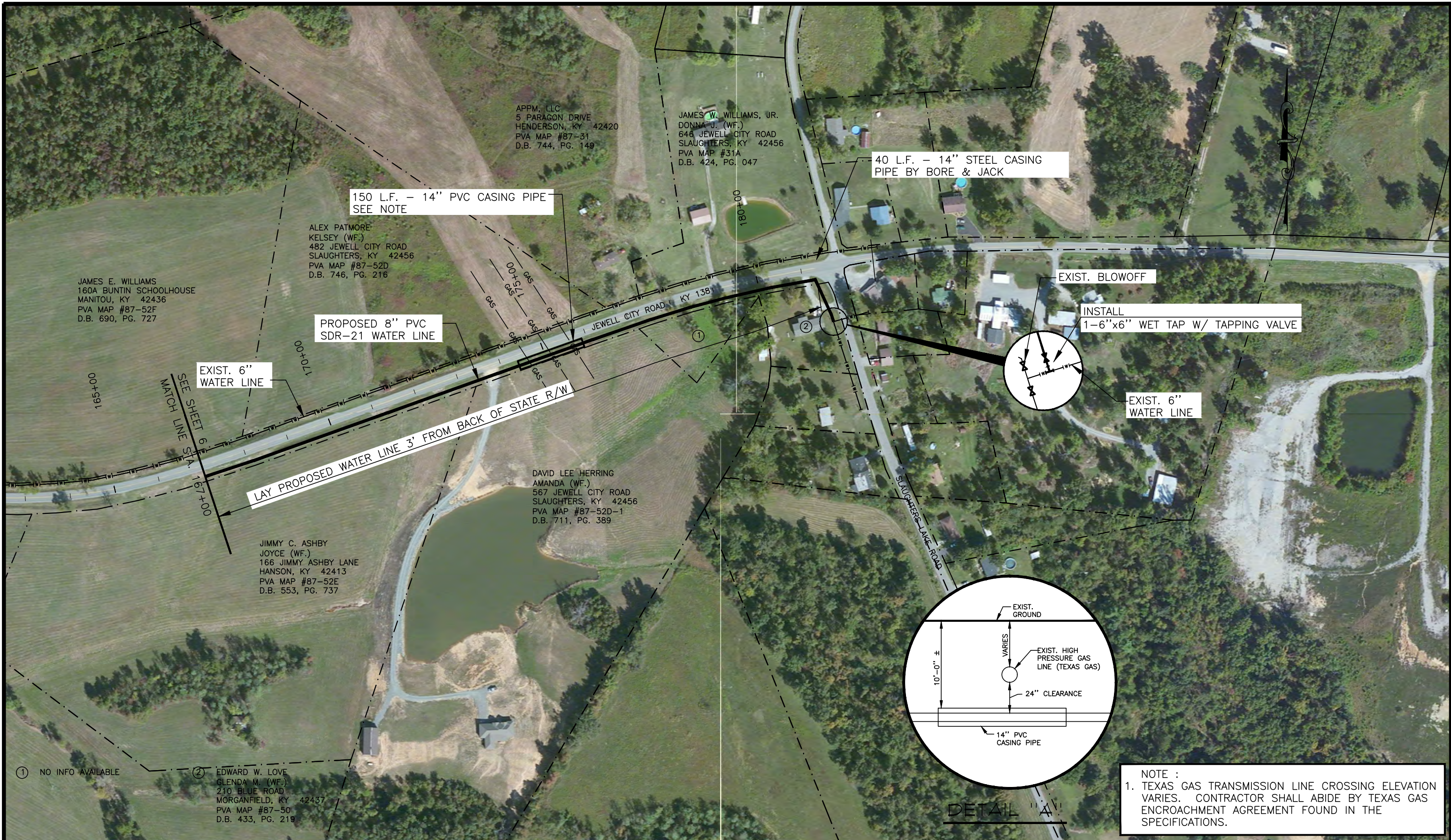


**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

**HIGHWAY 41 - STA. 139+00 TO STA. 167+00**

SHEET  
6





NOTE :  
 1. TEXAS GAS TRANSMISSION LINE CROSSING ELEVATION VARIES. CONTRACTOR SHALL ABIDE BY TEXAS GAS ENCROACHMENT AGREEMENT FOUND IN THE SPECIFICATIONS.

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01	DATE: DEC. 2017		
SCALE: 1" = 200'			
DESIGNED BY	JDR	NAME	DATE
DRAWN BY	SAB		
CHECKED BY	JDR		
RECORD DWGS.			



3 HMB CIRCLE  
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 (502) 695-9800  
 (502) 695-9810 FAX

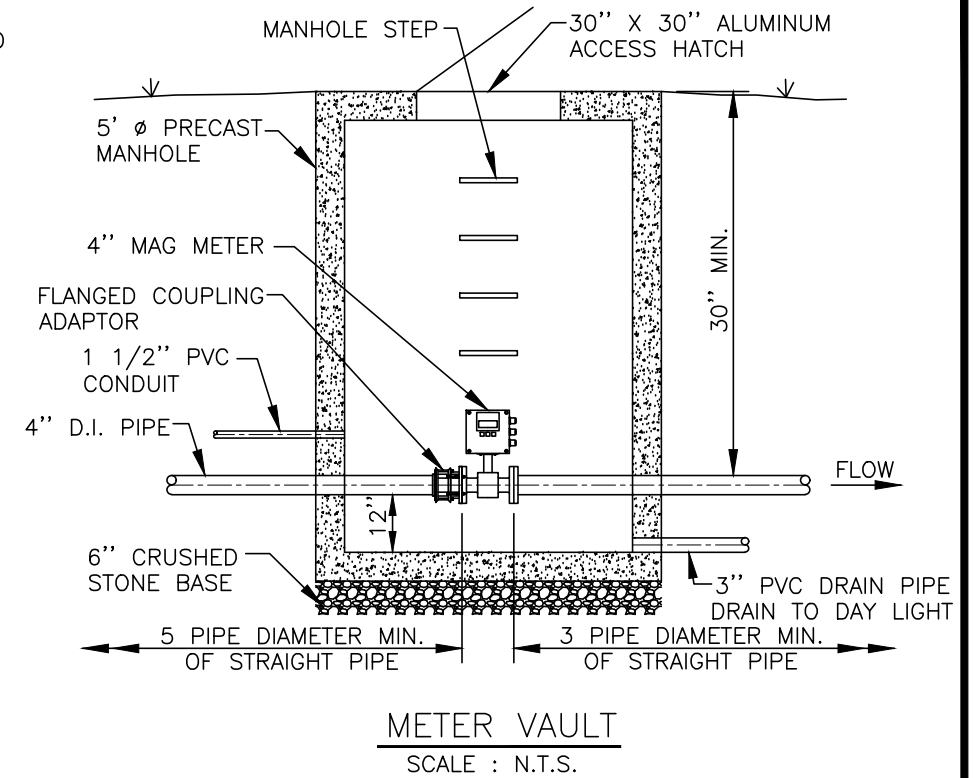
**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

**HIGHWAY 41 - STA. 167+00 TO STA. 181+29**

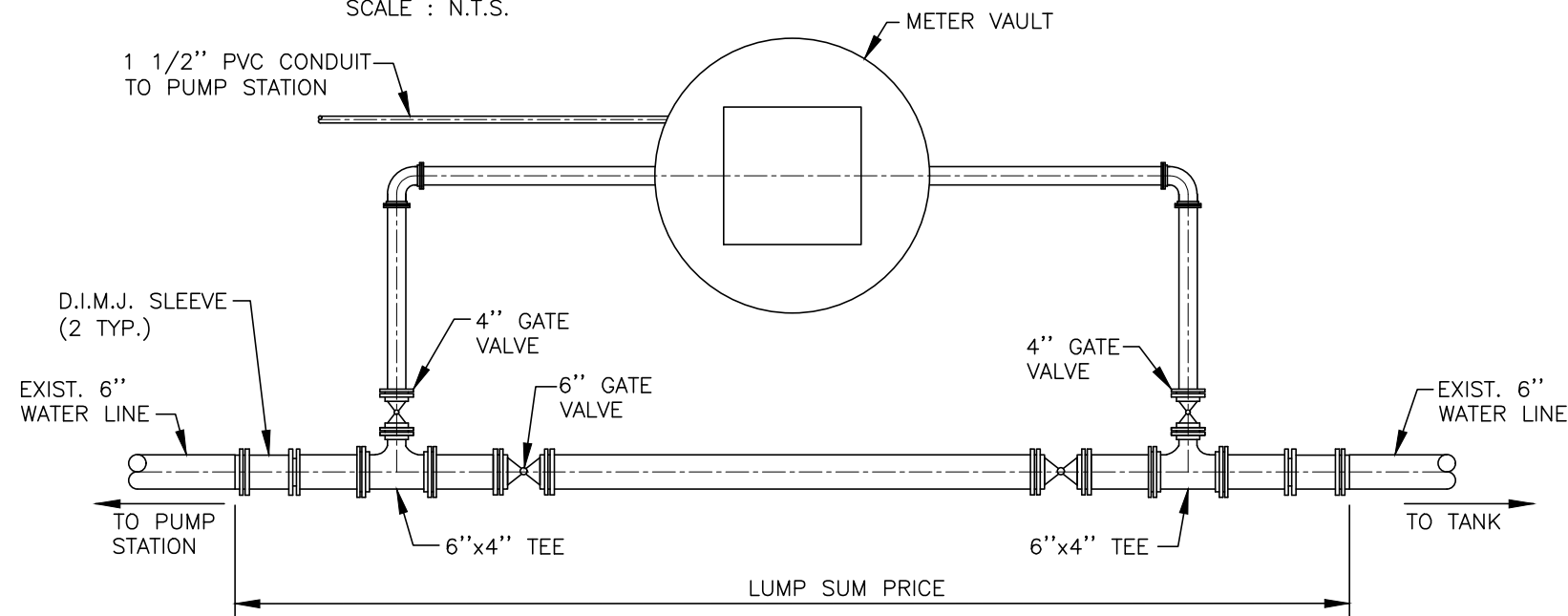


NOTES :

1. ALL PIPING AND FITTINGS INSIDE VAULT SHALL BE FLANGED DUCTILE IRON.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRIC TO FLOW METER.
3. ALL ELECTRIC MUST MEET STATE AND LOCAL CODES.
4. MAG METERS SHALL BE A M-SERIES M2000 WITH REMOTE AMPLIFIER AS MANUFACTURED BY BADGER METER OR APPROVED EQUAL. DISPLAY PANEL SHALL BE LOCATED IN PUMP STATION BUILDING.



**LOCATION MAP**  
SCALE : N.T.S.



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01		DATE: JUNE 2018
SCALE: AS NOTED		
DESIGNED BY	JDR	NAME
DRAWN BY	SAB	DATE
CHECKED BY	JDR	
RECORD DWGS.		



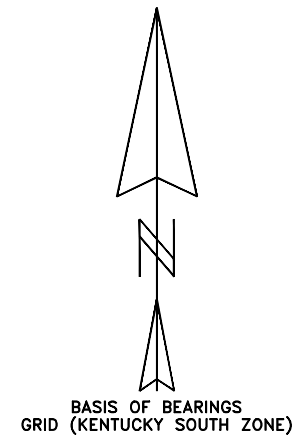
3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
(502) 695-9810 FAX

**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

**SLAUGHTER'S METER VAULT**

SHEET  
8

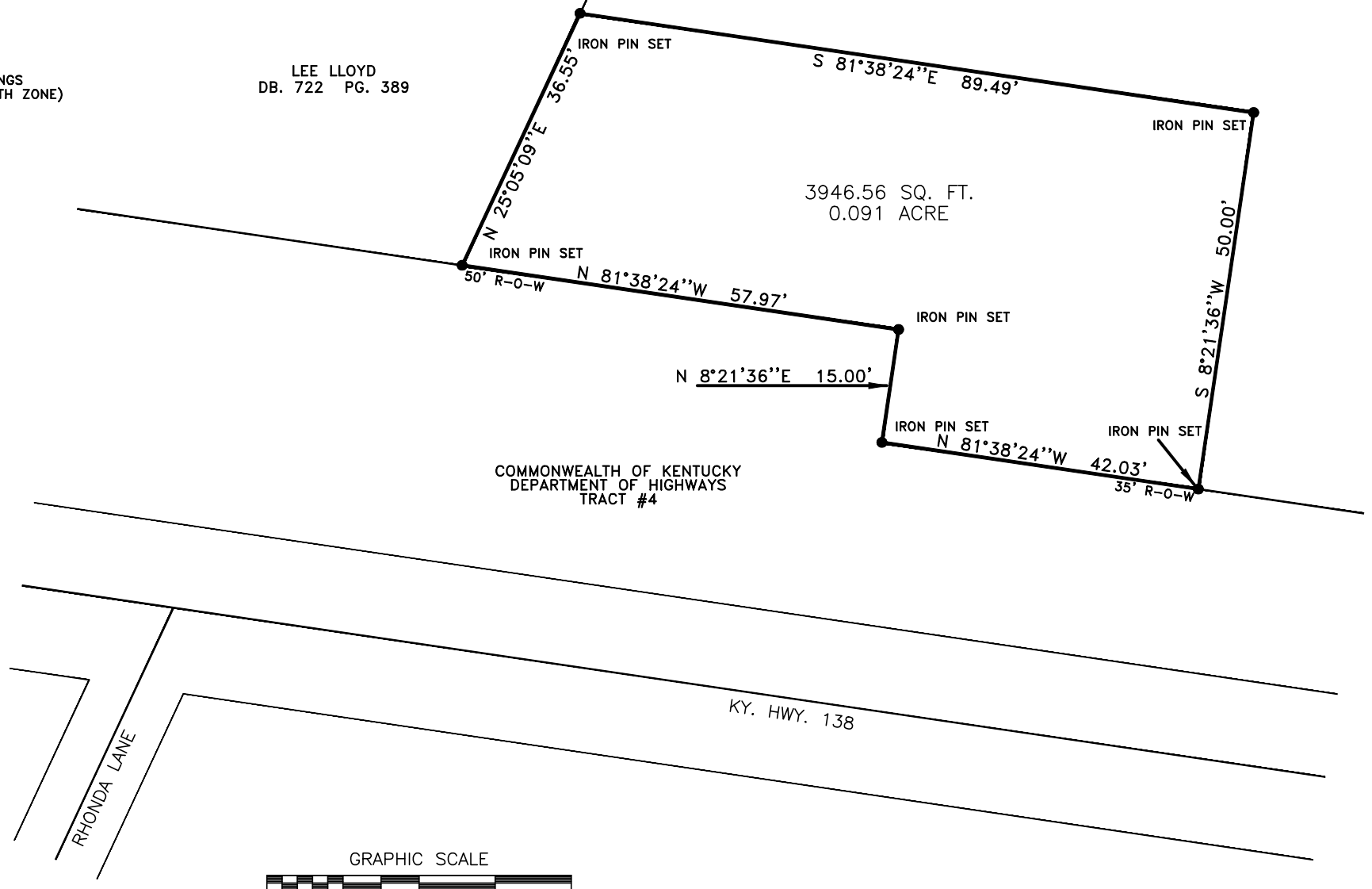
C:\Users\Keith\Documents\Area Maps\NHWD.bmp



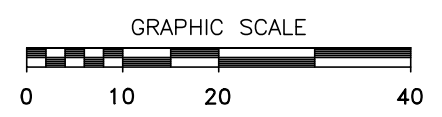
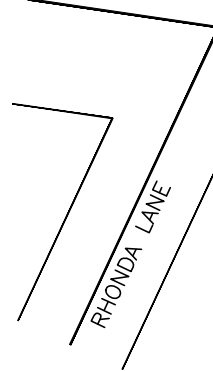
Division of the James Williams Property  
 Db. 690 Pg. 727  
 3946.56 Sq. Ft. - 0.091 Acre Divided

JAMES WILLIAMS  
 REMAINDER  
 DB. 690 PG. 727

LEE LLOYD  
 DB. 722 PG. 389



COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 TRACT #4



STATE of KENTUCKY  
 K.A.  
 WHITLEDGE  
 3399  
 LICENSED  
 PROFESSIONAL  
 LAND SURVEYOR

**SURVEYORS CERTIFICATION** AREA MAP N.T.S.  
 I hereby certify that this plat depicts an urban survey made by me, or under my direction by method of GPS Network Adjusted RTK (Sokkia GHX2, dual frequency) with a relative positional accuracy that meets the standard for an urban survey of ±0.05'+100 ppm. Horizontal datum NAD 83 and geoid model GEOID12A. The bearings and distances have not been adjusted for closure. All monuments identified as set are 1/2" rebar 20" in length, with identification cap marked Whitledge #3399. This survey and plat meets or exceeds the minimum standards of governing authorities.

KEITH WHITLEDGE \_\_\_\_\_ DATE \_\_\_\_\_

**OWNERS CERTIFICATION**  
 I do hereby certify that I am the owner of record of the property shown hereon, as recorded in DB. 690 PG. 727 in the Hopkins County Clerk's office, and do hereby adopt this survey.

JAMES WILLIAMS \_\_\_\_\_ DATE \_\_\_\_\_

**DESCRIPTION:** A certain tract of ground located in Hopkins County on the north side of Ky. Hwy. 138, at the intersection of Ky. Hwy. 138 and Rhonda Lane, said tract being a part of the James Williams property (Db.690 Pg.727), and described by metes and bounds as follows.

Beginning at an iron pin set on the north side of Ky. Hwy. 138, 50 feet from the center, at the intersection of Ky. Hwy. 138 and Rhonda Lane, a corner to Lee Lloyd (Db.722 Pg.389), said point being the Point of Beginning; thence with Lloyd, N 25° 05' 09" E, a distance of 36.55 feet to an iron pin set, a new corner to Williams; thence severing Williams the following two courses and distances, S 81° 38' 24" E, a distance of 89.49 feet to an iron pin set; thence S 8° 21' 36" W, a distance of 50.00 feet to an iron pin set on the north side of Ky. Hwy. 138, 35 feet from the center; thence with the north right-of-way of Ky. Hwy. 138 the following three courses and distances, N 81° 38' 24" W, a distance of 42.03 feet to an iron pin set; thence N 8° 21' 36" E, a distance of 15.00 feet to an iron pin set; thence N 81° 38' 24" W, a distance of 57.97 feet to the Point of Beginning; said described tract containing 0.091 acre (3,946.56square feet), more or less, subject to any legal right-of-ways, easements, or restrictions of record. Description prepared from a physical survey performed by Keith Whitledge PLS #3399 on April 12, 2018.

SURVEY PLAT  
 DIVISION OF THE JAMES WILLIAMS PROPERTY  
 KY. HWY. 138  
 HOPKINS COUNTY, KY.

SURVEYOR: KEITH WHITLEDGE  
 203 ST. RT. 132 W  
 DIXON, KY. 42409

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

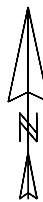
PROJECT: 4254.01	DATE: DEC. 2017
SCALE: 1" = 200'	
DESIGNED BY:	JDR
DRAWN BY:	SAB
CHECKED BY:	JDR
RECORD DWGS.	

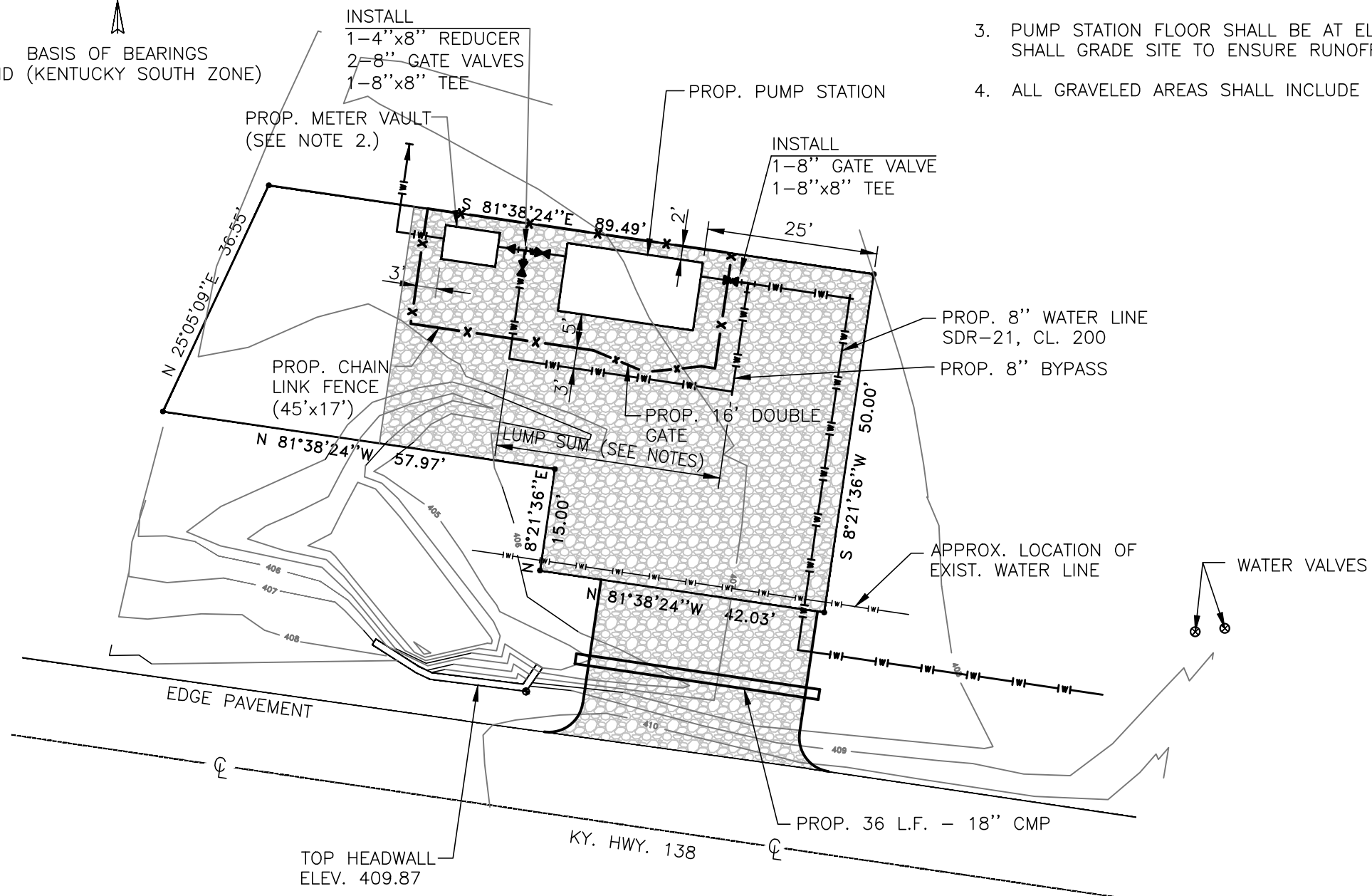


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 (502) 695-9800  
 (502) 695-9810 FAX

SHEET  
 9

SCALE: 1" = 20'	DRAWN BY: K.A.W.
DATE OF SURVEY: 4 - 12 - 18	CHECKED BY: K.A.W.
OWNER: James Williams 160A Buntin Schoolhouse Road Manitou, Ky. 42436	CLIENTS: North Hopkins Water District, David Adams, Chairman 316 Liberty Church Loop Madisonville, Ky. 42431

  
 BASIS OF BEARINGS  
 GRID (KENTUCKY SOUTH ZONE)



NOTES :

1. ALL PIPING BETWEEN 8" TEES, INCLUDING 8" BYPASS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR THE PUMP STATION. GATE VALVES SHALL BE PAID FOR SEPARATELY.
2. PROPOSED METER VAULT SHALL BE FURNISHED BY WEBSTER COUNTY WATER DISTRICT, REFER TO MASTER METER VAULT DETAIL.
3. PUMP STATION FLOOR SHALL BE AT ELEV. 408.50. CONTRACTOR SHALL GRADE SITE TO ENSURE RUNOFF AWAY FROM PUMP STATION.
4. ALL GRAVELED AREAS SHALL INCLUDE 8 oz. FILTER FABRIC.

LEGEND

 GRAVELED AREA

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01 DATE: DEC. 2011  
 SCALE: 1" = 20'

DESIGNED BY	NAME	DATE
JDR	JDR	
SAB	SAB	
JDR	JDR	

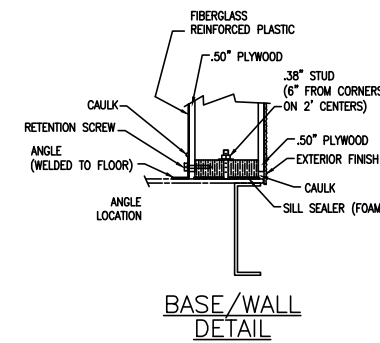
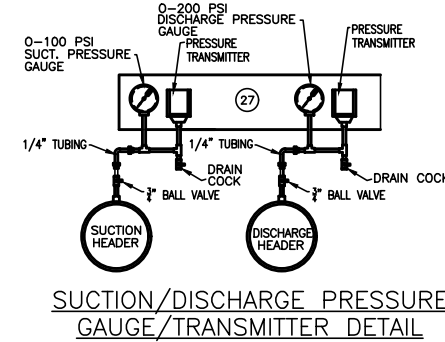
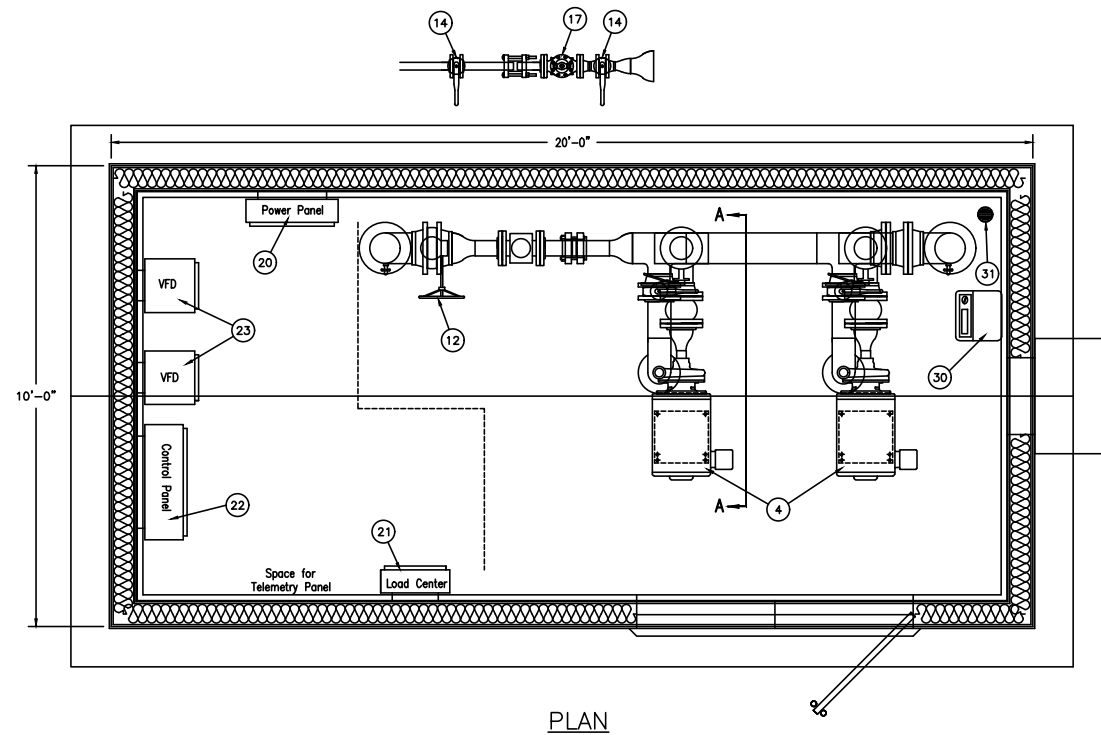


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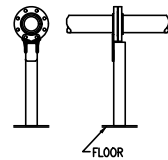
**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

**SITE PLAN**

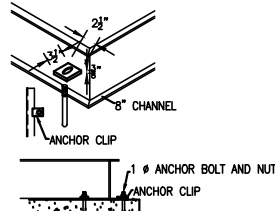
SHEET 10



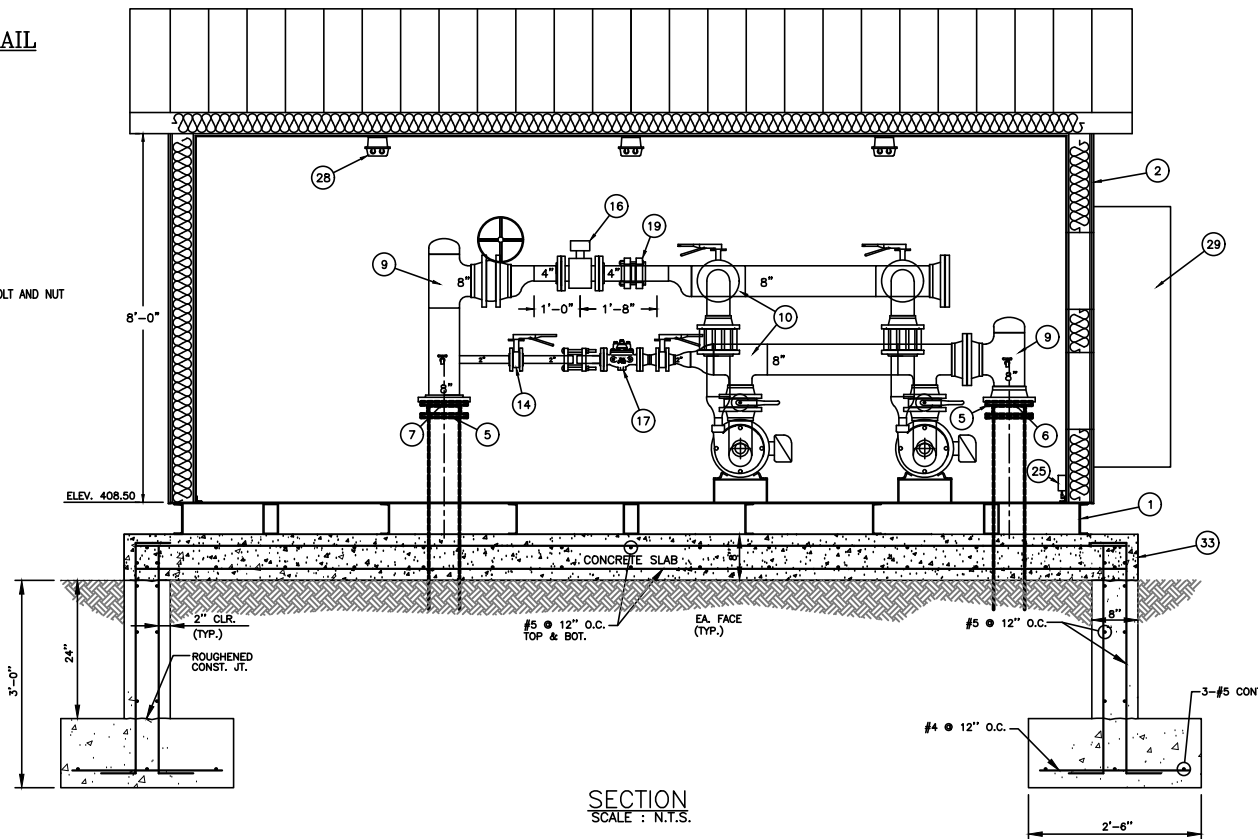
ITEM	QUANTITY	DESCRIPTION
1		STEEL BASE - 3/8" PLATE WITH 8" STRUCTURAL REINFORCEMENT
2	1	DAKOTA PUMP MODULAR BUILDING
3	-	DEVOE PAINT COATINGS
4	2	PUMPS/MOTORS - AMERICAN MARSH REC 2X2.5-8, 30 HP, 3500 RPM, 480/240V/3PH/60HZ CONDITIONS - 300 GPM @ 200' TDH
5		FLANGED COUPLING ADAPTOR
6	1	8" FLANGED SUCTION CONNECTION
7	1	8" FLANGED DISCHARGE CONNECTION
8	4	6" ELBOWS
9	2	8" WELD TEES
10	4	8"x8"x4" REDUCING WELD TEES
11	-	REQUIRED REDUCERS
12	1	8" BUTTERFLY VALVE W/ GEAR OP
13	4	6" BUTTERFLY VALVES W/ LEVER OP
14	2	2" BUTTERFLY VALVES W/ LEVER OP
15	2	6" CHECK VALVES
16	1	4" FLOW METER
17	1	2" RELIEF VALVE
18	2	RUBBER COUPLINGS
19	2	DRESSER 38 COUPLINGS
20	1	480 VOLT POWER PANEL
21	1	SINGLE PHASE LOAD CENTER
22	1	CONTROL PANEL WITH PCL EQUIPMENT
23	2	VARIABLE SPEED DRIVES
24	1	SINGLE PHASE TRANSFORMER
25	1	BUILDING FLOOD SENSOR
26	1	LOW TEMPERATURE THERMOSTAT
27	2	PRESSURE TRANSMITTERS / GAUGES
28	3	LED INTERNAL LIGHTS
29	1	HVAC UNIT
30	1	DEHUMIDIFIER
31	1	FLOOR OPENING FOR CONTRACTOR SUPPLIED FLOOR DRAIN
32	1	FUSION BONDED INTERNAL PIPE COATINGS
33	1	CONCRETE SLAB (SEE NOTES)



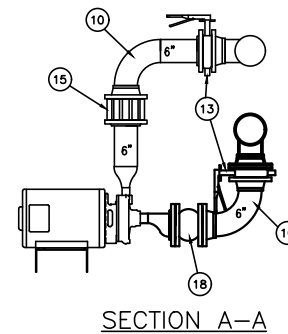
PIPE SUPPORT DETAIL



TYPICAL ANCHOR DETAIL

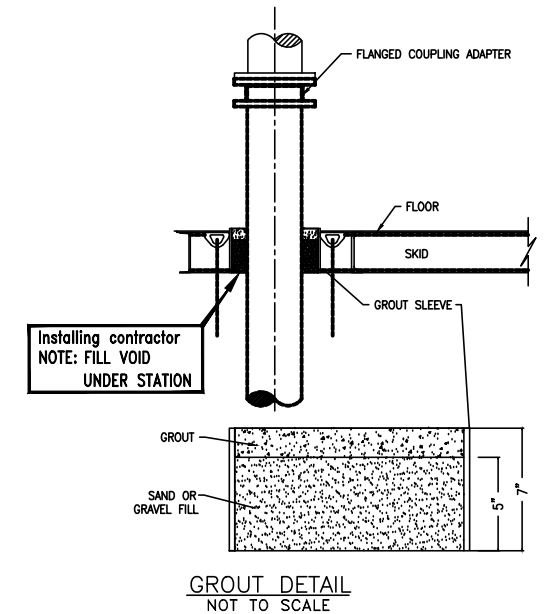


SECTION SCALE : N.T.S.



SECTION A-A

- NOTE:
- ANCHOR CLIPS FURNISHED BY MANUFACTURER.
  - SHIMS MAY BE REQUIRED AROUND PERIMETER OF BASE FRAME FOR LEVELNESS AND PROPER DOOR ALIGNMENT IN FRAME.
  - PUMP STATION SHALL BE ANCHORED TO THE FOUNDATION AS RECOMMENDED BY THE MANUFACTURER.
  - CONNECTION BETWEEN PUMP STATION PIPING AND THE MAIN PIPING SHALL BE RESTRAINED.
  - FOUNDATION SHALL BE 11'x21' AND 12" THICK WITH #5 REBAR E.W., E.F. 12" ON CENTER



GROUT DETAIL NOT TO SCALE

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01	DATE: DEC. 2011
SCALE: N.T.S.	
DESIGNED BY	JDR
DRAWN BY	SAB
CHECKED BY	JDR
RECORD DWG.	



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**WATER SYSTEM IMPROVEMENTS PROJECT  
NORTH HOPKINS WATER DISTRICT  
HOPKINS COUNTY, KENTUCKY**

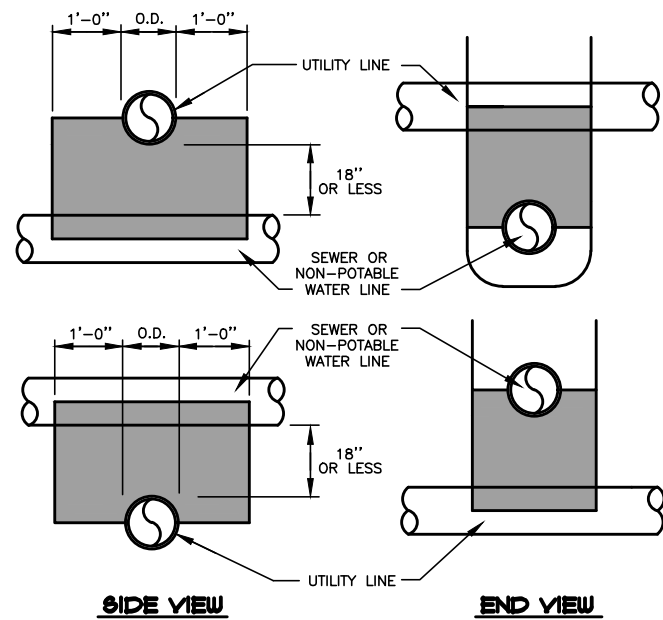
**BOOSTER PUMP STATION**

SHEET

11

NOTES :

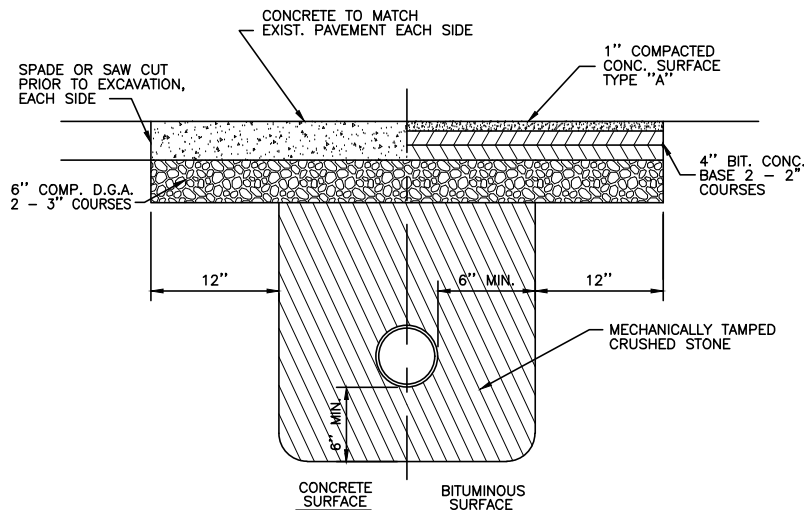
1. CONCRETE ENCASEMENT SHALL BE USED WHEN CLEARANCE BETWEEN SEWER OR NON-POTABLE WATER LINE AND UTILITY LINE IS 18" OR LESS.
2. WHEN ENCOUNTERING UTILITY LINE WITH SEPARATION LESS THAN 18" VERTICAL OR 10'-0" HORIZONTAL, CONCRETE ENCASEMENT SHALL BE USED. FULL SECTION OF PIPE SHALL BE CENTERED ABOVE OR BELOW UTILITY LINE TO ACHIEVE MAXIMUM JOINT DISPLACEMENT.
3. CONCRETE ENCASEMENT IS NOT A SEPARATE PAY ITEM.



**UTILITY CROSSING / ENCASEMENT**

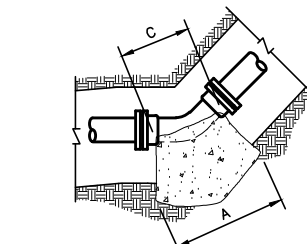
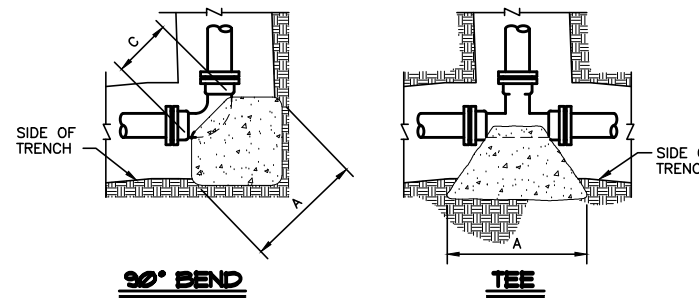
SCALE : N.T.S.

ALL MANUFACTURED BRAND NAMES CALLED OUT ON DETAIL SHEETS ARE FOR EXAMPLE ONLY, OTHER MANUFACTURERS BRANDS CAN BE USED IF APPROVED AS EQUALS.



**PAVEMENT REPLACEMENT**

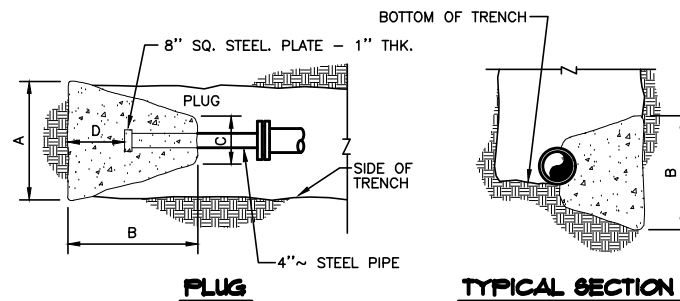
SCALE : N.T.S.



**45°-22 1/2°-11 1/4° BEND**

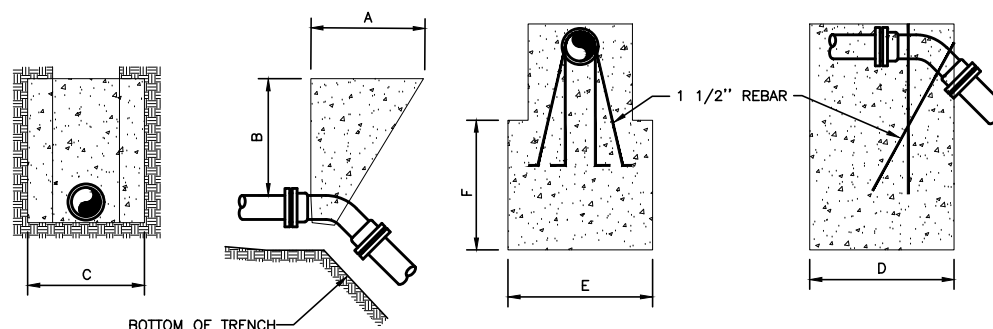
NOTES:

1. THRUST BLOCKS DESIGNED FOR 100 PSI PRESSURE AND 1000 PSF SOIL BEARING. FOR GREATER PRESSURE OR LESS SOIL BEARING, QUANTITIES WILL HAVE TO BE RECALCULATED.
2. THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
3. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
4. THRUST BLOCKING TO BE POURED IN PLACE CLASS B CONC.



**PLUG**

**TYPICAL SECTION**



**45° VERTICAL BEND**

**45° VERTICAL BEND**

**THRUST BLOCKING**

SCALE : N.T.S.

90° BEND										
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"
A	88	80	72	64	50	40	33	26	16	16
B	88	80	72	64	50	40	33	24	16	16
C	45	38	32	30	16	15	12	12	9	9
D	48	40	36	32	25	20	16	12	8	9

45° BEND										
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"
A	72	60	54	48	37	31	24	18	12	12
B	72	60	54	48	37	31	24	18	12	12
C	22	20	16	18	16	14	12	12	8	8
D	32	28	25	22	18	15	12	9	6	6

45° VERTICAL BEND										
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"
A	72	60	60	45	36	36	36	36	24	24
B	60	48	48	45	36	36	36	36	24	24
C	96	84	84	72	60	60	60	60	48	48
D	84	72	72	60	48	48	48	48	36	36
E	84	72	72	60	48	48	48	48	36	36
F	84	72	72	60	48	48	48	48	36	36

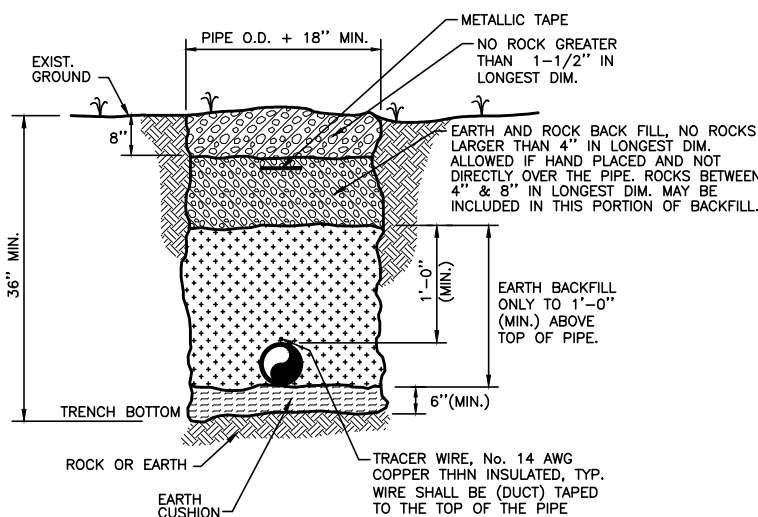
22 1/2° BEND										
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"
A	50	42	38	34	26	23	18	13	9	9
B	50	42	38	34	26	23	18	13	9	9
C	22	20	16	18	16	14	12	10	8	8
D	26	22	18	16	13	11	9	6	4	4

11 1/4° BEND										
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"
A	36	30	27	24	18	16	13	11	9	9
B	36	30	27	24	18	16	13	11	9	9
C	22	20	16	18	16	14	12	10	8	8
D	22	18	14	12	9	8	6	5	4	4

PLUG										
SIZE	24"	20"	18"	16"	12"	10"	8"	6"	4"	2"
A	80	66	60	54	52	43	34	26	26	26
B	80	66	60	54	52	43	34	26	26	26
C	12	12	12	12	12	12	12	12	12	12
D	72	60	54	44	32	22	15	11	11	11

TEE											
SIZE	MAIN BRANCH	24"	20"	18"	16"	12"	12"	12"	8"-10"	8"-12"	2"-6"
A	24"	80	66	60	54	52	42	26	43	26	26
B	20"	80	66	60	54	52	43	26	43	26	26
C	18"	45	36	32	30	12	12	12	12	12	12
D	16"	48	40	36	30	26	21	13	21	13	13

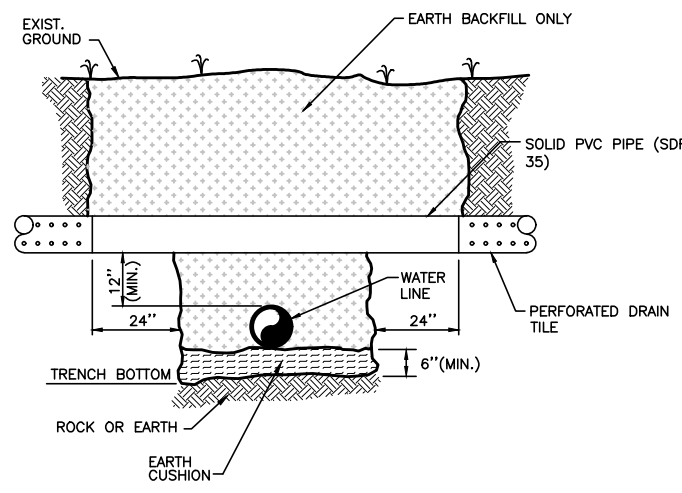
DIMENSIONS ARE IN INCHES



**BEDDING/BACKFILL**

SCALE : N.T.S.

NOTE : TRACER WIRE SHALL BE SPLICED WITH GEL FILLED WIRE CONNECTORS.



**DRAIN TILE DETAIL**

SCALE : N.T.S.

NOTES :

- CONTRACTOR SHALL REPAIR DRAIN TILE WITH SOLID PIECE OF PVC PIPE.
- PVC PIPE SHALL EXTEND 24" PAST WATER LINE DITCH TO PREVENT ANY SAGGING OF PIPE.
- PVC PIPE SHALL BE SAME DIAMETER AS DRAIN TILE.

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4254.01 DATE: FEB. 2018  
SCALE: N.T.S.

DESIGNED BY	NAME	DATE
JDR	JDR	
SAB	SAB	
JDR	JDR	
RECORD DWGS.		

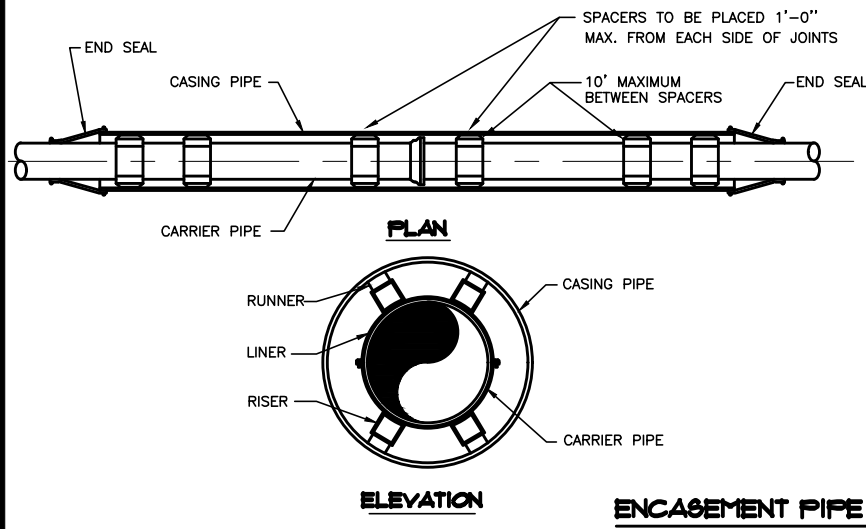


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**WATER SYSTEM IMPROVEMENTS PROJECT  
NORTH HOPKINS WATER DISTRICT  
HOPKINS COUNTY, KENTUCKY**

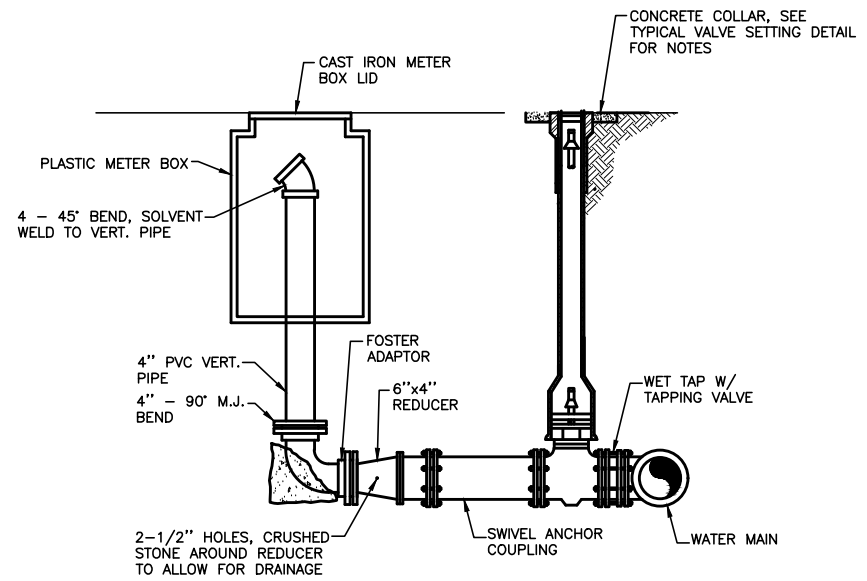
SHEET  
SD1

**STANDARD DETAILS**

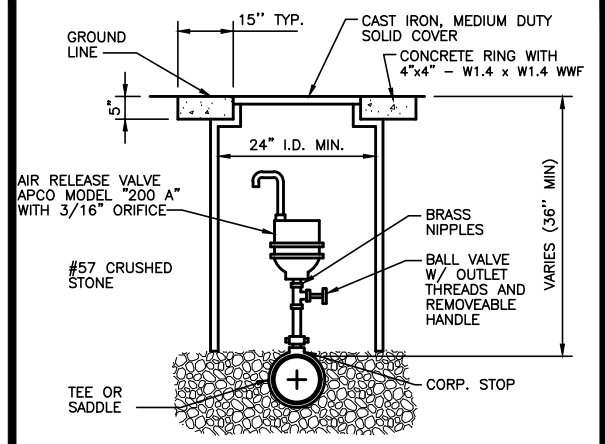


**ENCASUREMENT PIPE SPACER**  
SCALE : N.T.S.

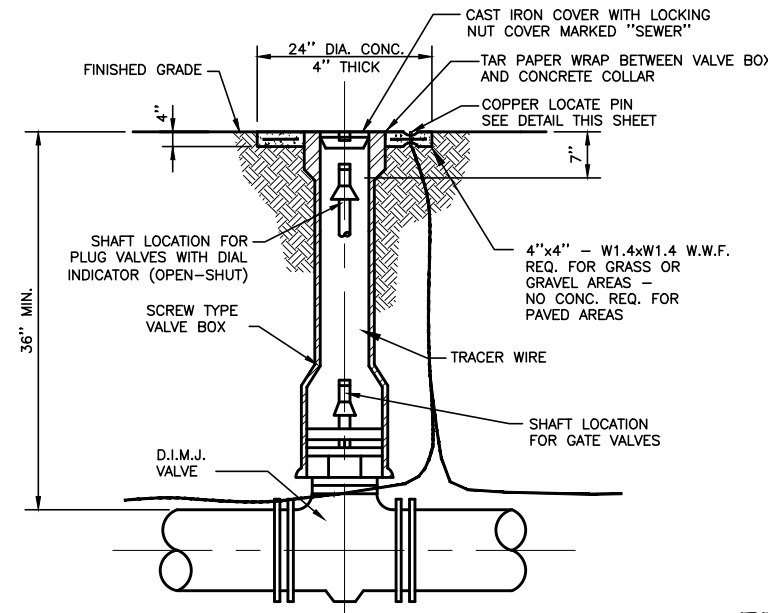
- TYPICAL ROAD CROSSING NOTES:
- ALL JOINTS SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
  - MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
  - OPEN TRENCH NO CLOSER THAN THE DITCH LINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY STATE, COUNTY OR MUNICIPAL SPECIFICATIONS.
  - HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES 4" AND LESS SHALL BE NEW SCHEDULE 40. STEEL CASING PIPES LARGER THAN 4" SHALL HAVE MINIMUM WALL THICKNESS OF 0.25". ALL BORED AND JACKED ENCASUREMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THAN THE OUTSIDE DIAMETER OF THE ENCASUREMENT PIPE.
  - SDR-21 SHALL BE USED FOR PVC CASING FOR COUNTY ROADS, WHERE PVC CASING PIPE IS REQUIRED.
- TYPICAL STREAM CROSSING NOTES:
- END CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
  - CONCRETE CAP SHALL END A MINIMUM OF ONE FOOT FROM EDGE OF CASING PIPE.
  - STREAM CROSSINGS SHALL UTILIZE PVC SDR 35 CASING PIPE.



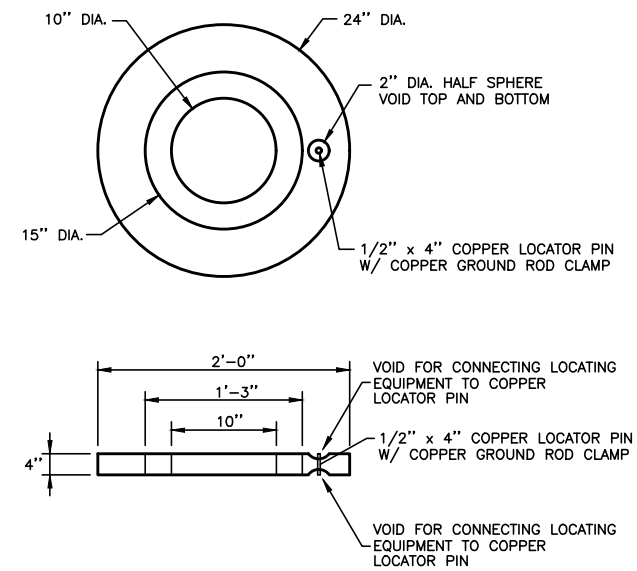
**BLOWOFF DETAIL**  
SCALE : N.T.S.



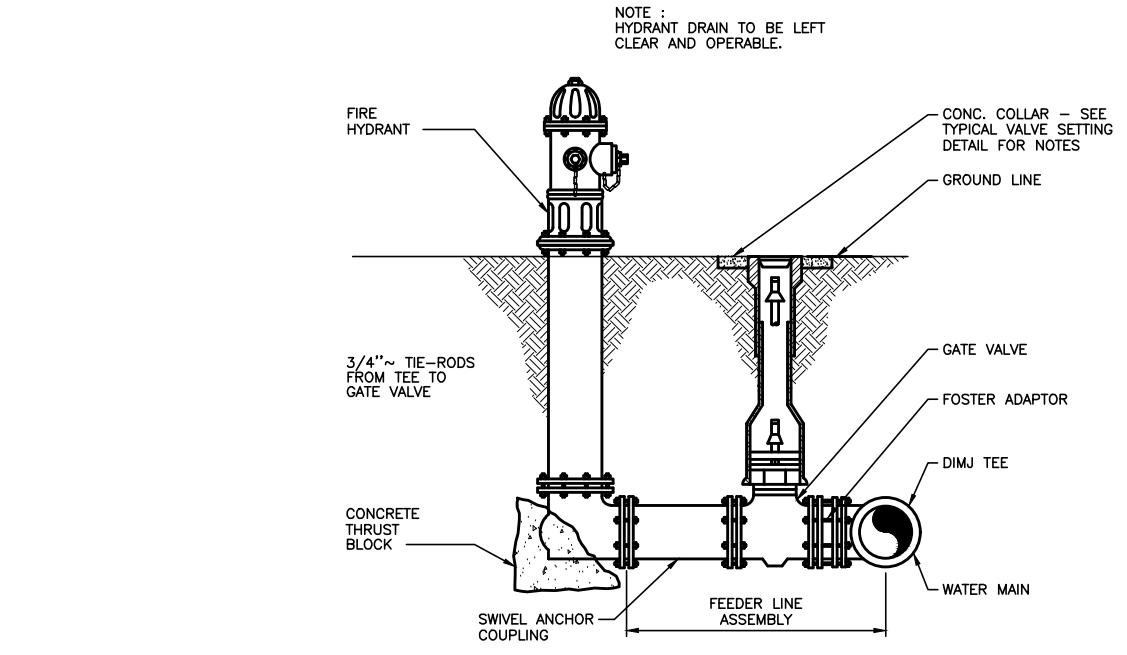
**AUTOMATIC AIR RELEASE VALVE**  
SCALE : N.T.S.



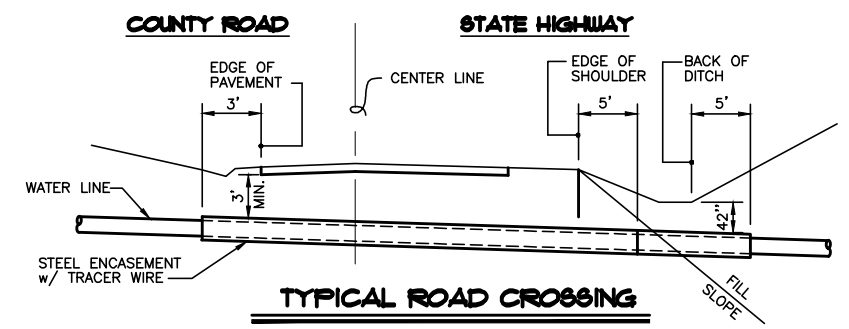
**VALVE & VALVE BOX**  
SCALE : N.T.S.



**24" DIAMETER CONCRETE VALVE BOX  
PROTECTOR RING W/ COPPER LOCATOR PIN**  
SCALE : N.T.S.



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



**TYPICAL ROAD CROSSING**  
SCALE : N.T.S.

NOTE : THIS DETAIL SHALL ALSO APPLY TO SERVICE LINE BORES WITH PVC CASING.

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT:	4254.01	DATE:	AUG. 2016
SCALE:	AS NOTED	DESIGNED BY:	JDR
		DRAWN BY:	SAB
		CHECKED BY:	JDR
		RECORD DWGS.	

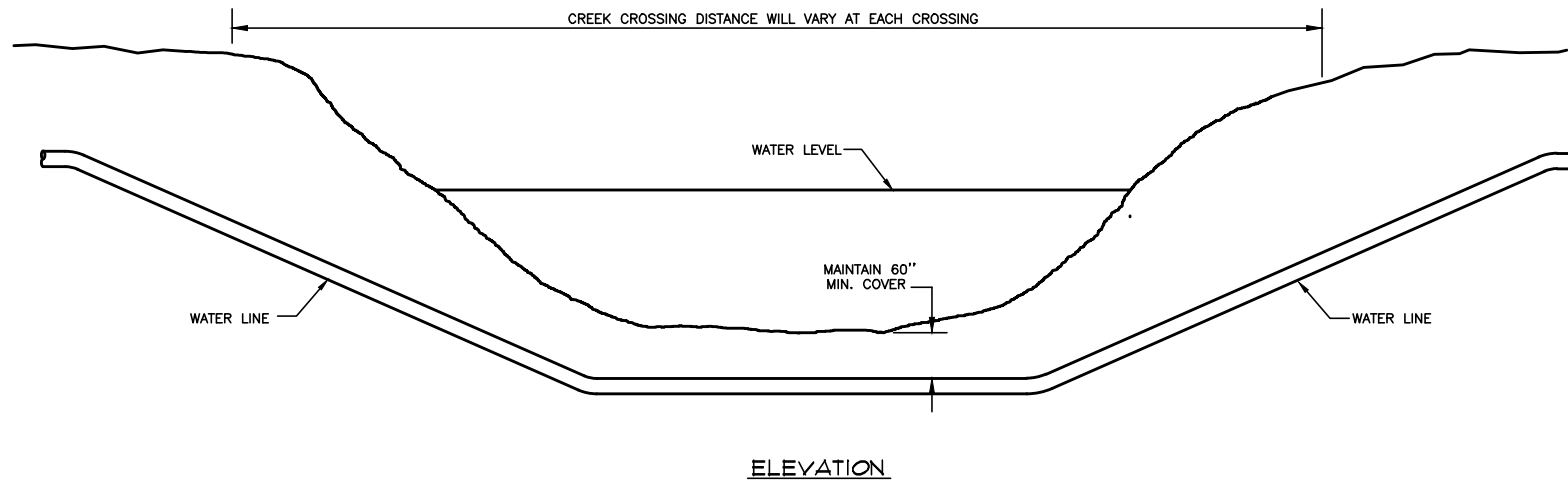


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(502) 695-9800  
(502) 695-9810 FAX

**WATER SYSTEM IMPROVEMENTS PROJECT  
NORTH HOPKINS WATER DISTRICT  
HOPKINS COUNTY, KENTUCKY**

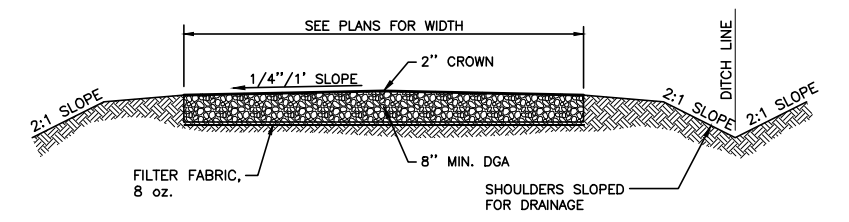
**STANDARD DETAILS**

SHEET  
SD2

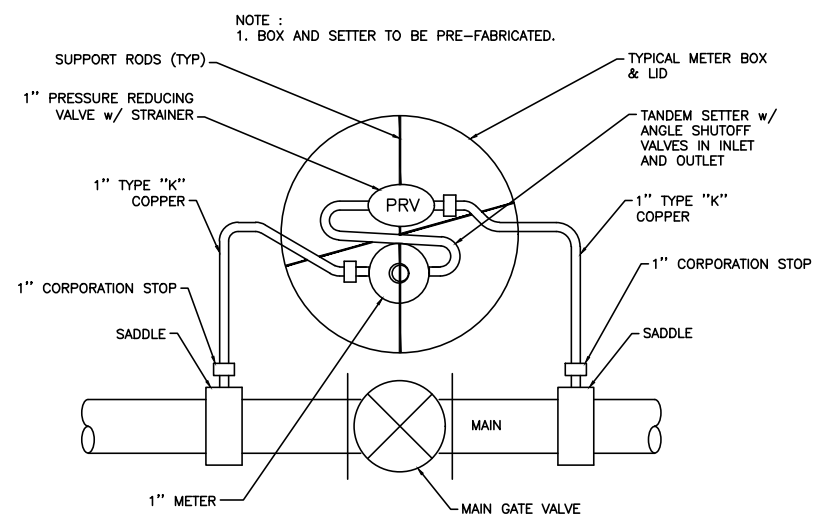


- NOTES:
1. DEPTH OF WATER LINE SHALL BE GRADUALLY INCREASED WITHOUT FITTINGS TO REQUIRED DEPTH.
  2. CROSSING SHALL BE ACCOMPLISHED SUCH THAT MANUFACTURER'S RECOMMENDATIONS FOR PIPE DEFLECTION ARE NOT EXCEEDED. COMPLIANCE AND VERIFICATION ARE CONTRACTORS RESPONSIBILITY.
  3. NO SEPARATE PAY ITEM HAS BEEN ESTABLISHED FOR TYPE "A" CREEK CROSSING. COST FOR CREEK CROSSING SHALL BE INCLUDED IN UNIT PRICE BID FOR WATER LINE.

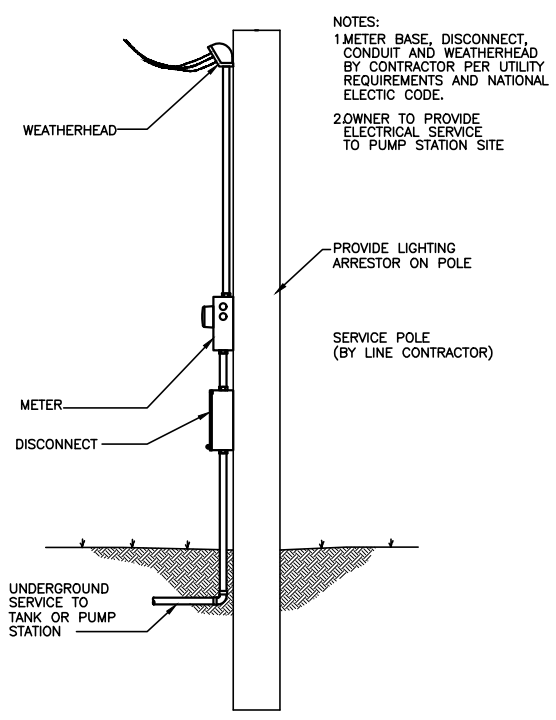
**TYPE "A" STREAM CROSSING**  
SCALE : N.T.S.



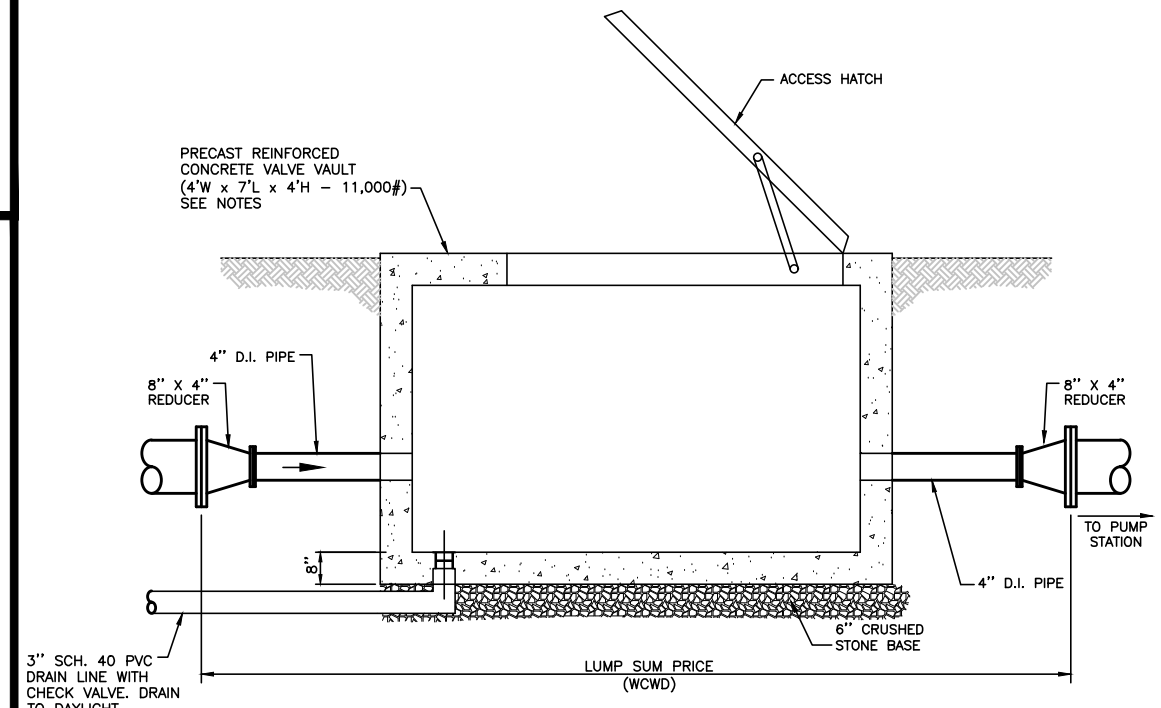
**GRAVEL ACCESS ROAD**  
SCALE : N.T.S.



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



**POWER POLE**  
SCALE : N.T.S.



- NOTES :
1. MASTER METER VAULT SHALL BE PURCHASED AND FURNISHED BY THE WEBSTER COUNTY WATER DISTRICT (WCWD). THERE IS AN APPROXIMATE LEAD TIME OF 8 WEEKS ON THE VAULT. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH WCWD AS TO WHEN THE VAULT SHALL BE ORDERED AND DELIVERED.
  2. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING THE VAULT AND CONNECTING TO THE 4" D.I. PIPE THAT WILL BE STUBBED OUT OF THE VAULT.
  3. MAINTAIN A MAXIMUM OF 5 STRAIGHT PIPE DIAMETERS IN FRONT OF METER AND 2 STRAIGHT PIPE DIAMETERS BEHIND METER.
  4. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLATION OF 3" PVC DRAIN LINE. COST TO BE INCLUDED IN LUMP SUM COST FOR INSTALLATION OF VALVE VAULT.

**MASTER METER VAULT**  
SCALE : N.T.S.

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 424101 DATE: AUG. 2016  
SCALE: AS NOTED

	NAME	DATE
DESIGNED BY	JDR	
DRAWN BY	SAB	
CHECKED BY	JDR	
RECORD DWGS.		



3 HMB CIRCLE  
FRANKFORT, KENTUCKY  
(502) 695-9800  
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**WATER SYSTEM IMPROVEMENTS PROJECT**  
**NORTH HOPKINS WATER DISTRICT**  
**HOPKINS COUNTY, KENTUCKY**

**STANDARD DETAILS**

SHEET  
SD3