

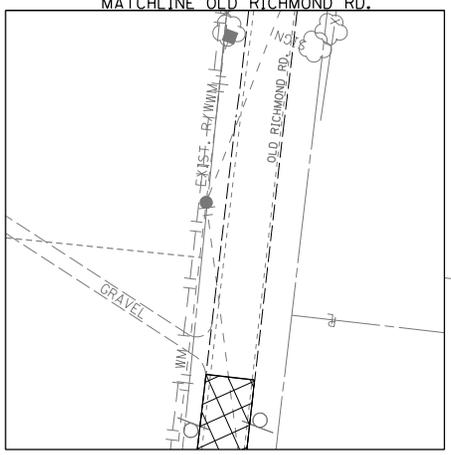
FILE NAME: C:\PWORKING\EASTON\03592249\7-9012.50 - UI UTIL\_PLAN.1.DGN  
 USER: ACAUDILL  
 DATE PLOTTED: February 18, 2025  
 MicroStation v8.11.9.919

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	07-9012.50	UI

MATCHLINE OLD RICHMOND RD.

PI STA 52+77.69  
 D= 45°24'43.59"  
 C= 28°38'52.40"  
 T=83.69  
 L=158.52  
 R=200.00  
 E=16.80

PI STA 59+30.46  
 D= 95°55'08.29"  
 C= 16°51'06.12"  
 T=377.07  
 L=569.19  
 R=340.00  
 E=167.72



**P**  
36  
GREEN PROPERTY HOLDINGS, LLC

STA. 54+00 - 28' LT  
 1 - 10" DIMJ 11.25" BEND  
 W/THRUST BLOCK

STA. 53+50 - 37.37' LT  
 1 - TIE-INTO EXIST. 10" FM  
 1 - 10" DIMJ 11.25" BEND  
 W/THRUST BLOCK  
 1 - AIR RELEASE VALVE ASSEMBLY

STA. 50+00.00 APHIDS WAY =  
 STA. 12+03.96 KY 418

STA. 54+50 - 28' LT  
 10" FM

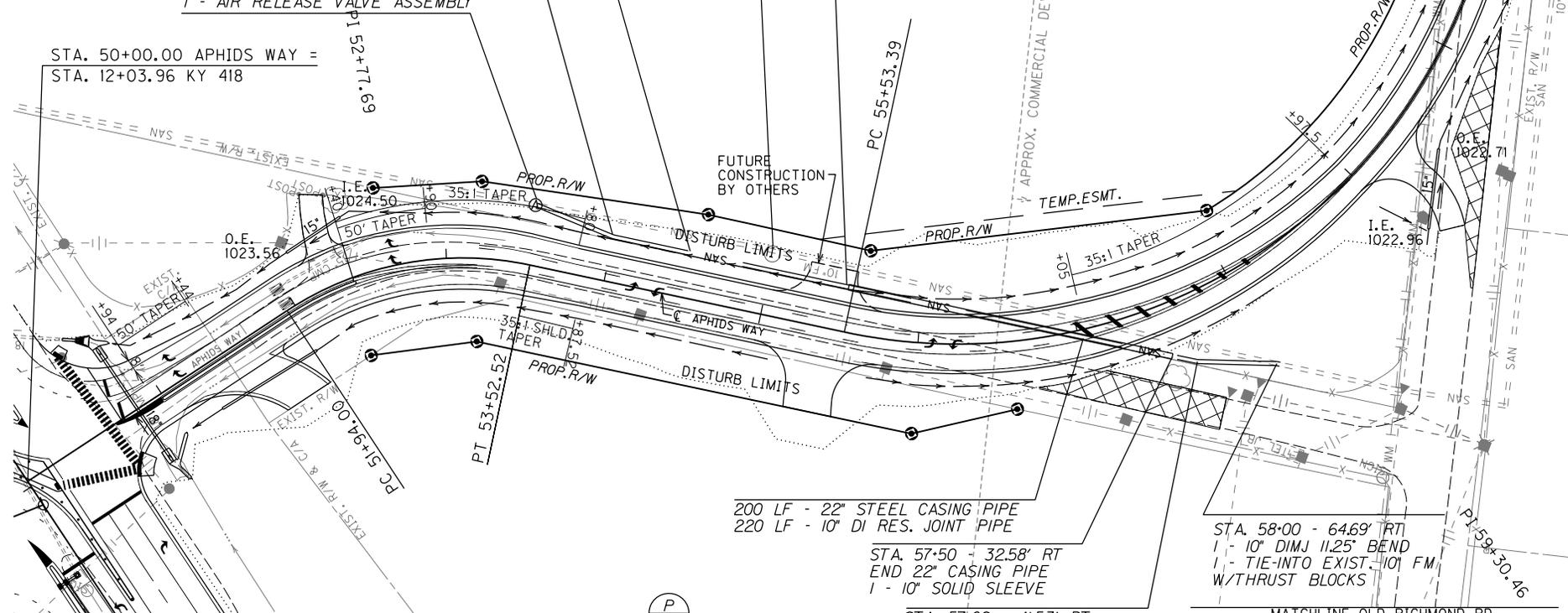
STA. 55+00 - 28' LT 10" FM  
 REMOVE EXISTING ARV

55+00  
 STA. 55+50 - 28' LT  
 BEGIN 22" CASING PIPE

60+09

PT 61+22.58

PT 62+50.00  
 50' SHLD.  
 TAPER LT. & RT.



200 LF - 22" STEEL CASING PIPE  
 220 LF - 10" DI RES. JOINT PIPE

STA. 57+50 - 32.58' RT  
 END 22" CASING PIPE  
 1 - 10" SOLID SLEEVE

STA. 57+62 - 41.53' RT  
 1 - 10" DIMJ 11.25" BEND  
 W/THRUST BLOCKS

STA. 58+00 - 64.69' RT  
 1 - 10" DIMJ 11.25" BEND  
 1 - TIE-INTO EXIST. 10" FM  
 W/THRUST BLOCKS

MATCHLINE OLD RICHMOND RD.

**P**  
37  
ANDERSON ACQUISITIONS LLC

APHIDS WAY  
 SANITARY SEWER PLAN  
 STA. 51+00 TO STA. 62+50

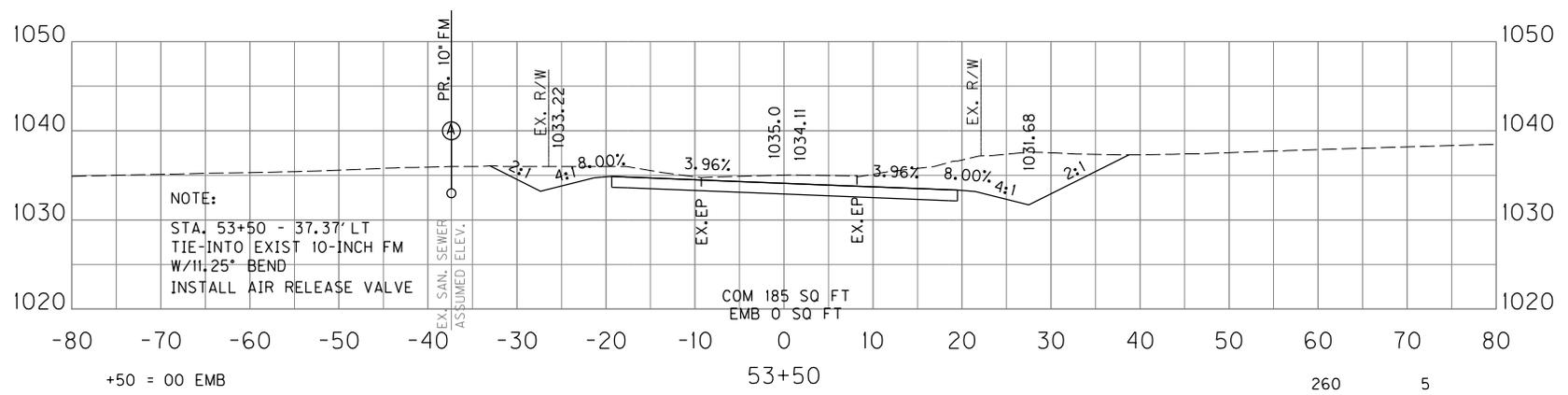
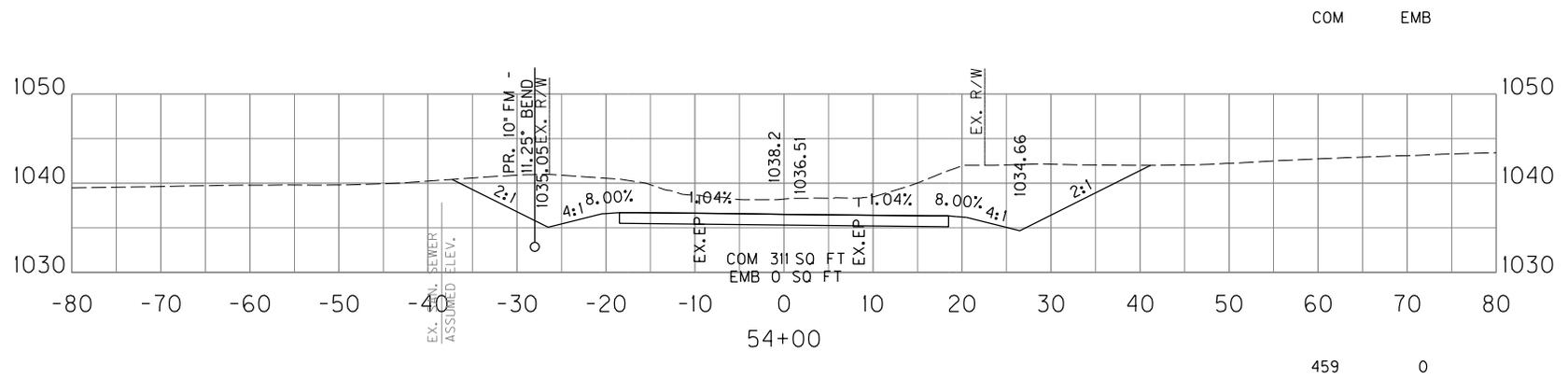
SCALE: 1" = 100'

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	07-9012.50	U2

FILE NAME: C:\PWORKING\EASTON\1641094\APHIDS XS.DGN

USER: ACAUDILL  
DATE PLOTTED: January 16, 2025

MicroStation v8.11.9.919



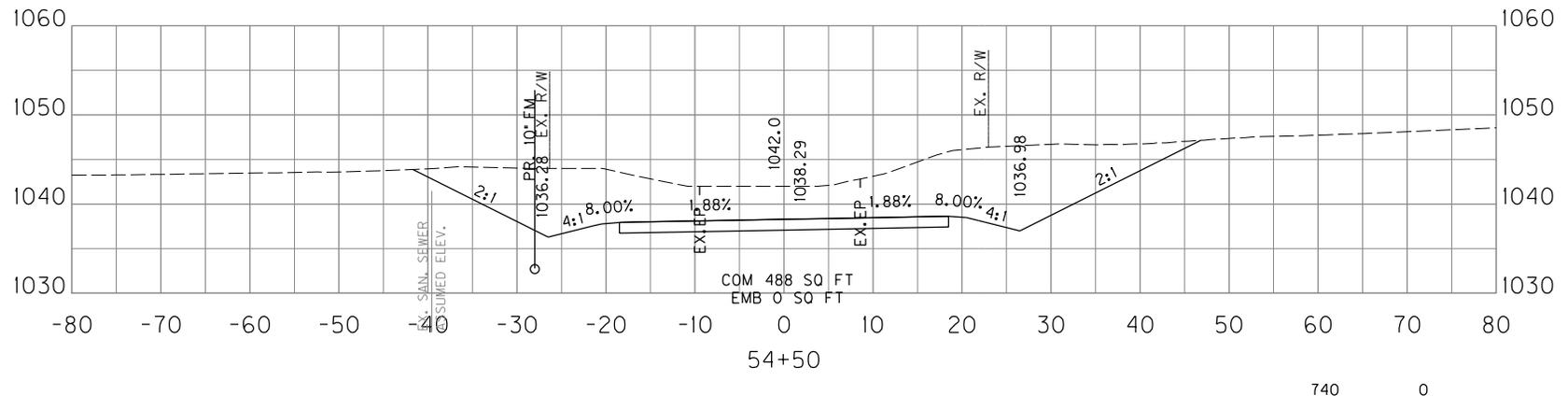
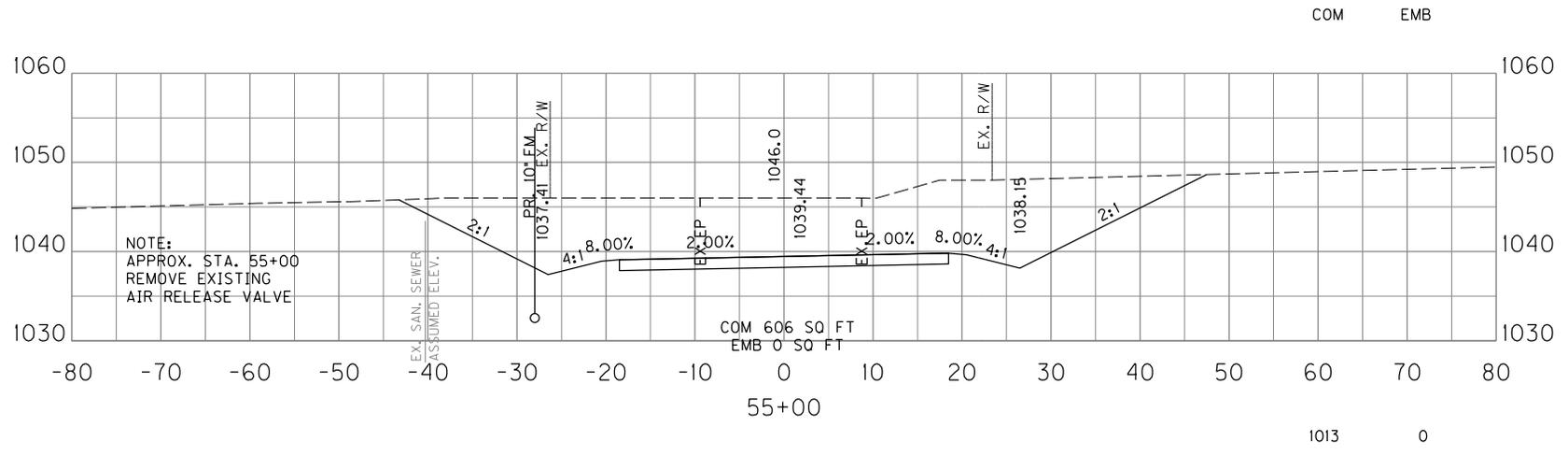
NOTE:  
STA. 53+50 - 37.37' LT  
TIE-INTO EXIST 10-INCH FM  
W/11.25° BEND  
INSTALL AIR RELEASE VALVE

SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

APHIDS WAY  
CROSS SECTION SHEET  
STA. 53+50 TO STA. 54+00

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	07-9012.50	U3

STA. 55+44 - 28' LT  
BEGIN DI RES. JOINT PIPE



NOTE:  
APPROX. STA. 55+00  
REMOVE EXISTING  
AIR RELEASE VALVE

SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

APHIDS WAY  
CROSS SECTION SHEET  
STA. 54+50 TO STA. 55+00

FILE NAME: C:\PWORKING\EASTO\1D1641094\APHIDS XS.DGN

USER: ACAUDILL  
DATE PLOTTED: January 16, 2025

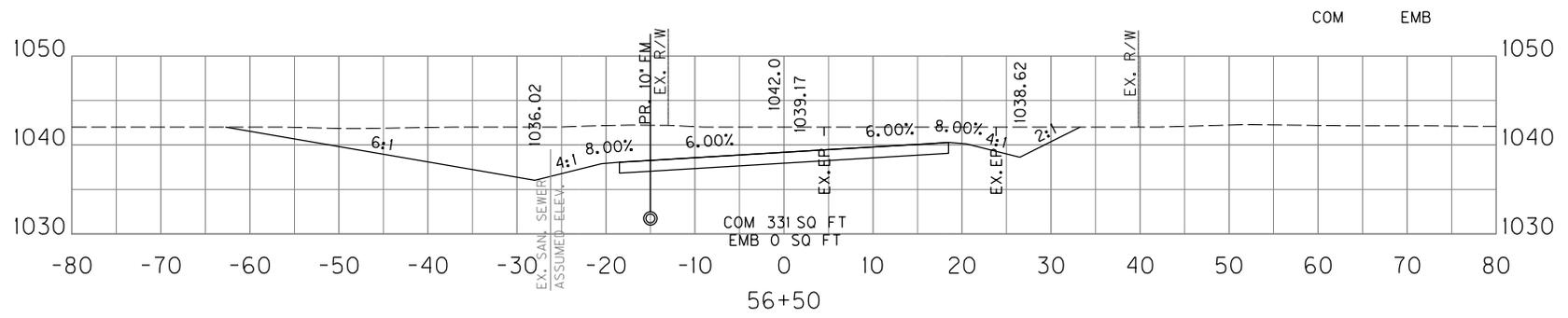
MicroStation v8.11.9.919

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	07-9012.50	U4

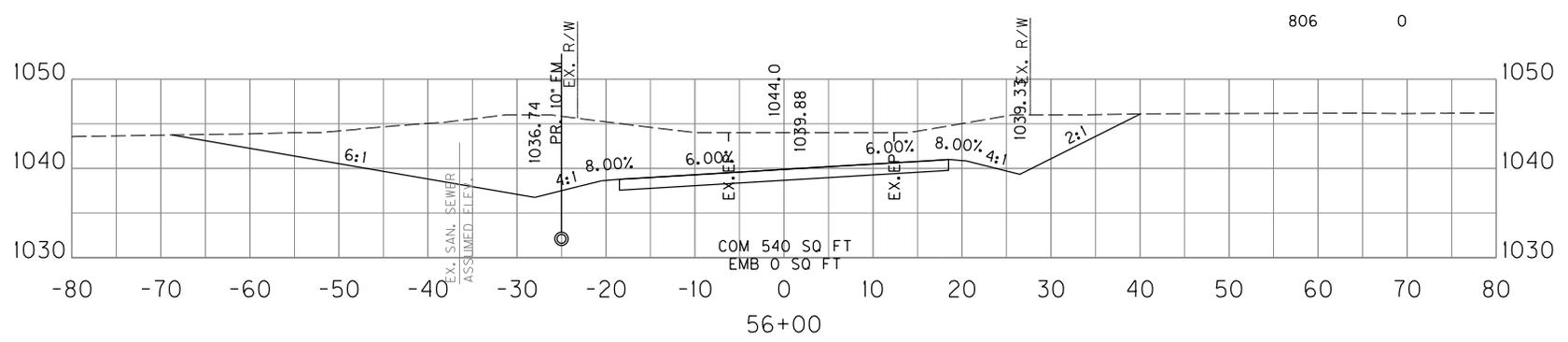
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USER: ACAUDILL  
DATE PLOTTED: January 16, 2025

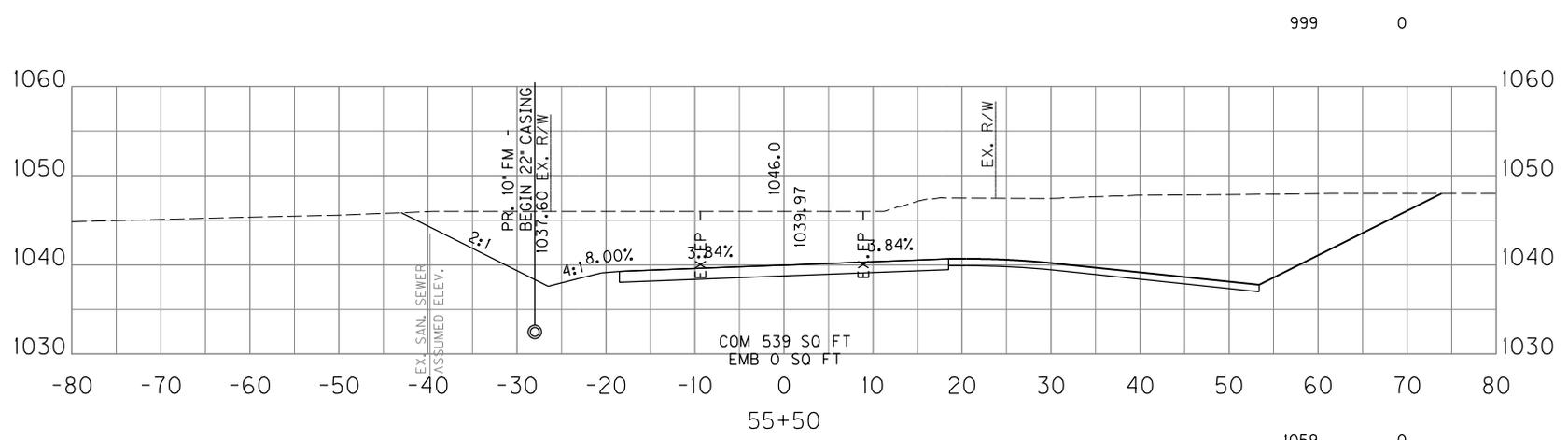
MicroStation v8.11.9.919



COM EMB



806 0



999 0

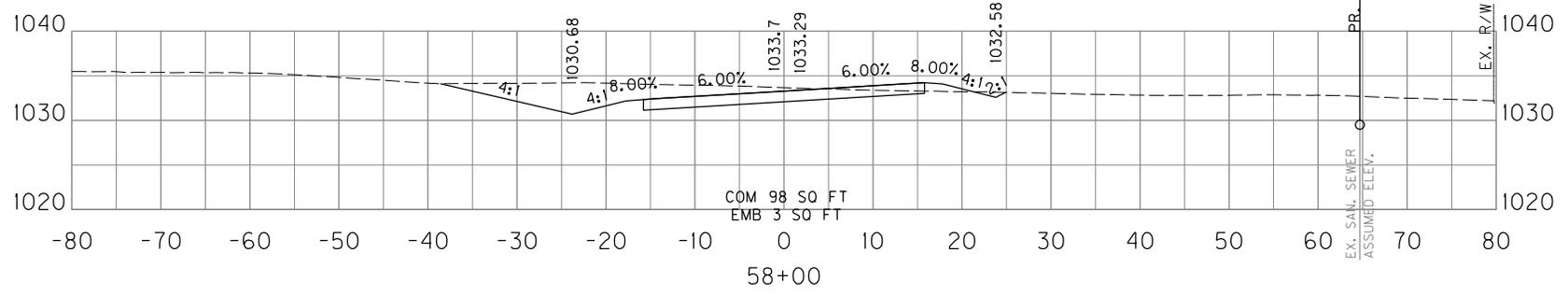
1059 0

SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

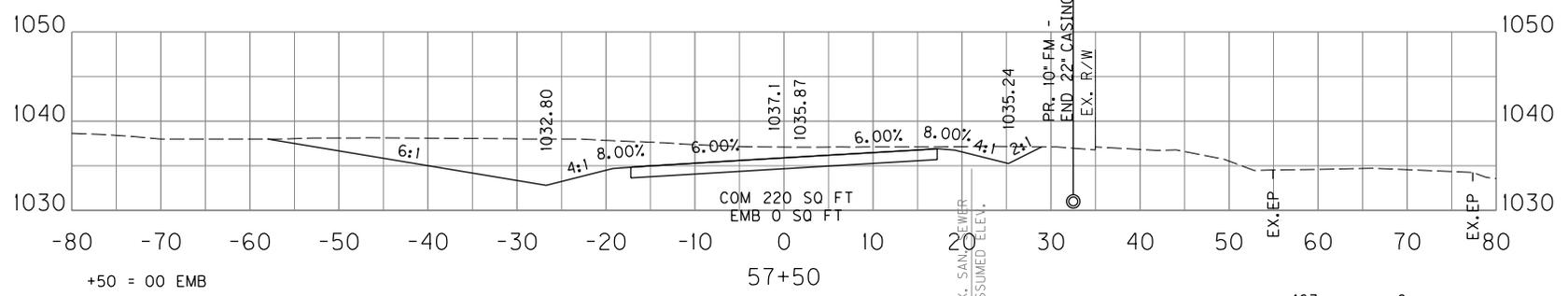
APHIDS WAY  
CROSS SECTION SHEET  
STA. 55+50 TO STA. 56+50

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	07-9012.50	U5

NOTE:  
 STA. 58+00 - 64.69' RT  
 TIE-INTO EXIST 10-INCH FM  
 11.25' BENDS

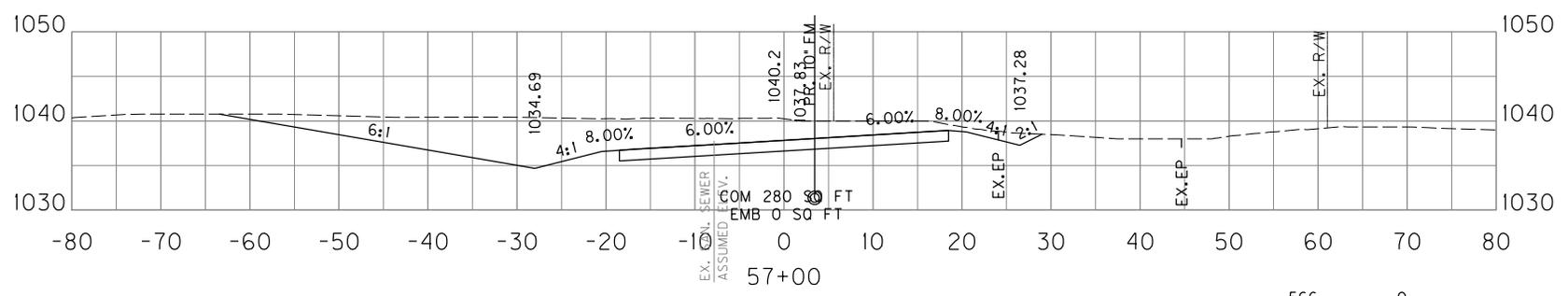


294 3



+50 = 00 EMB

463 0



566 0

SCALE: 1" = 20' HORIZONTAL  
 1" = 20' VERTICAL

APHIDS WAY  
 CROSS SECTION SHEET  
 STA. 57+00 TO STA. 58+00

FILE NAME: C:\PWORKING\EASTON\DI641094\APHIDS XS.DGN

USER: ACAUDILL  
 DATE PLOTTED: January 16, 2025

MicroStation v8.11.9.919

DATUM

SCALE: 1" = 100 HORIZONTAL  
1" = 10 VERTICAL

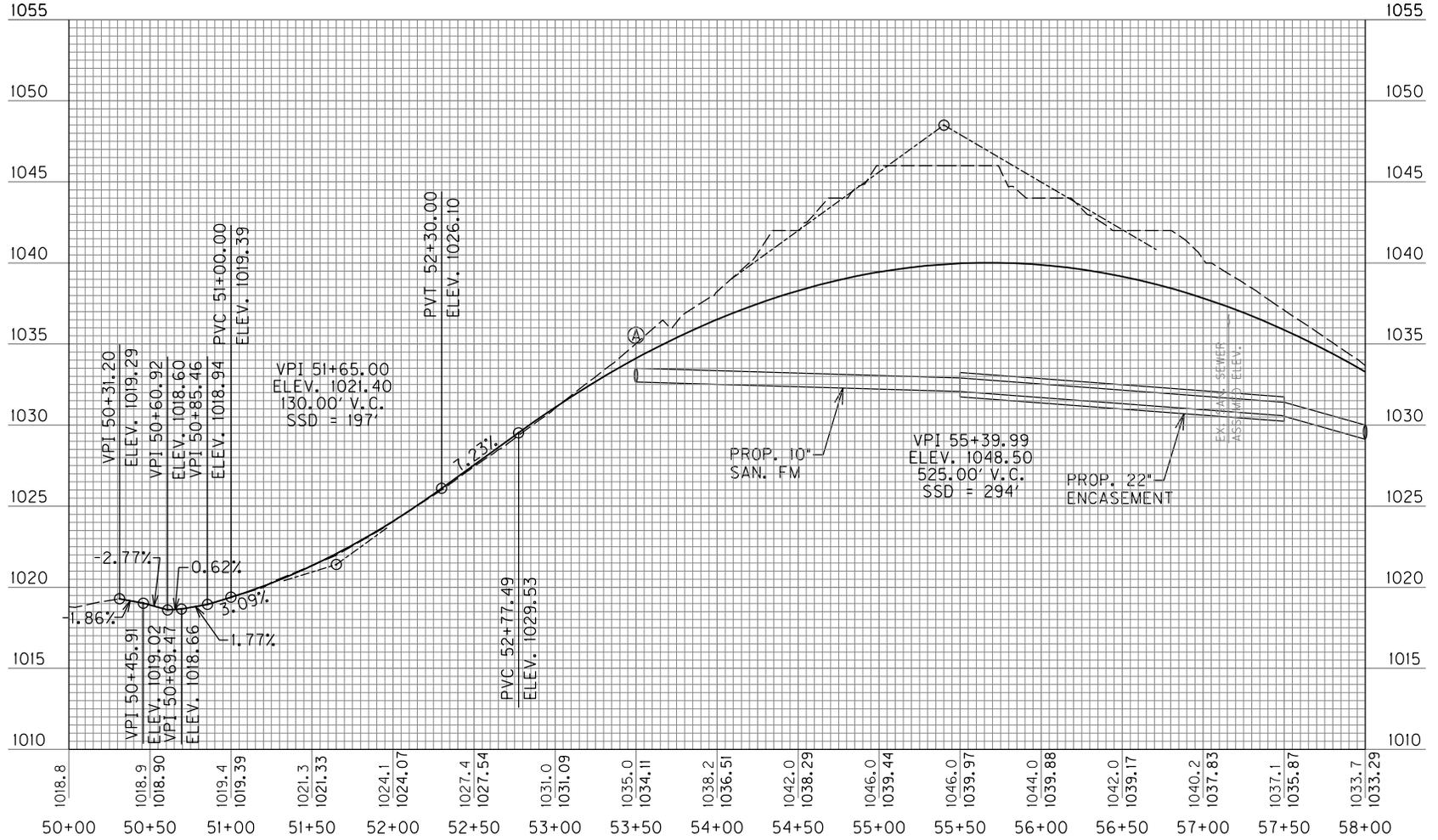
COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	07-9012.50	U6

DATUM

FILE NAME: C:\PWORKING\EAST\10\3592249\7-9012.50 - U6 -APHIDS PROFILE.DGN

USER: ACAUDILL  
DATE PLOTTED: February 18, 2025

MicroStation v8.11.9.919



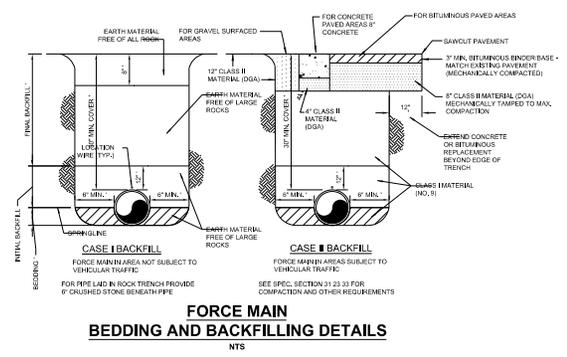
APHIDS WAY  
PROFILE SHEET  
STA. 50+00 TO STA. 58+00



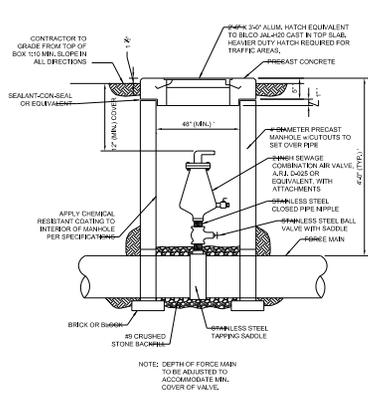
COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.50	U8

FILE NAME: C:\PWORKING\EASTON\D3592249\7-9012.50 - U8 - 05C-01.DGN  
 USER: ACAUDILL  
 DATE PLOTTED: February 18, 2025  
 MicroStation v8.11.9.919

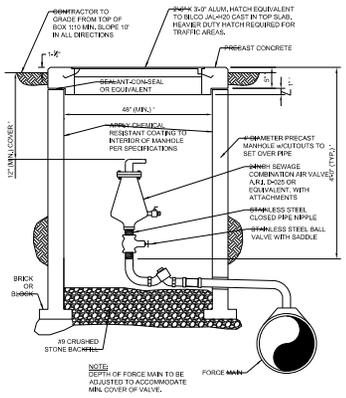
- NOTES (APPLY TO GRAVITY SEWER AND FORCE MAIN TRENCHING AND BACKFILL DETAIL):
1. FOR PIPE LAID IN ROCK TRENCH PROVIDE 6" CLASS I CRUSHED STONE BENEATH PIPE.
  2. TRENCH WIDTH SHALL BE OD OF PIPE + 16 INCHES.
  3. BEDDING UNDER THE SEWER AT THE BELL SHALL BE A MIN. OF 4".
  4. SEE SPEC SECTION 31 23 33 FOR COMPACTION AND OTHER REQUIREMENTS.
  5. TEMPORARY DGA MAY BE PLACED IN TRENCH TO ALLOW SETTLING IF ANY.



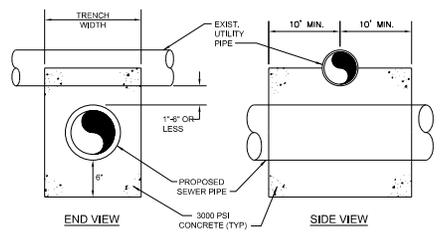
**FORCE MAIN  
BEDDING AND BACKFILLING DETAILS**  
NTS



**SEWERAGE COMBINATION AIR VALVE & VAULT**  
NOT TO SCALE



**OFFSET SEWERAGE COMBINATION AIR VALVE & VAULT**  
NOT TO SCALE



- NOTES:
1. CONCRETE ENCASEMENT SHALL BE USED WHEN CLEARANCE BETWEEN SEWER AND UTILITY PIPE IS 1'-6" OR LESS. CONCRETE SHALL BE CLASS "B" MEETING THE REQUIREMENTS OF SECTION 801 OF THE KOCH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
  2. "UTILITY PIPE" INCLUDES UNDERGROUND WATER, NATURAL GAS, TELEPHONE, ELECTRICAL CONDUITS, STORM SEWER OR TYPICALLY NON-CONTAMINATING FACILITIES.
  3. PROPOSED SEWER TO BE FULLY ENCASED WHETHER ABOVE OR BELOW EXISTING UTILITY PIPE, IF ABOVE EXISTING UTILITY PIPE, PROTECT UTILITY PIPE WITH PIPE SADDLE BEFORE PLACING CONCRETE.

**UTILITY CROSSING FOR SEWER INSTALLATION  
CONCRETE ENCASEMENT**  
NTS

SCALE: N/A

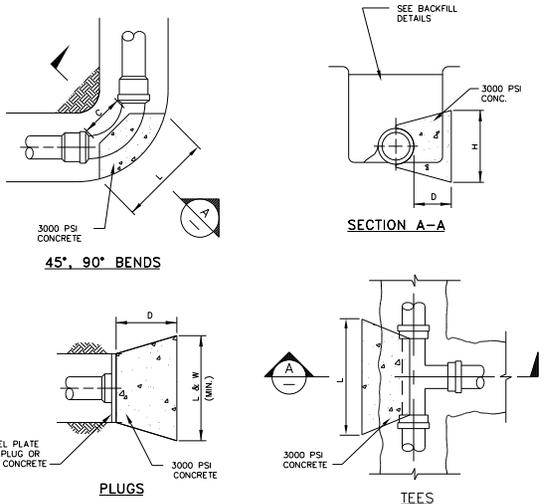
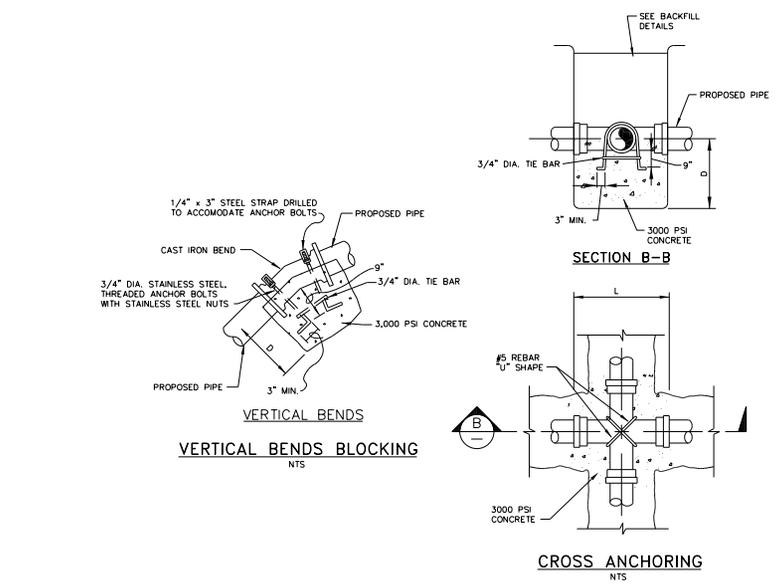
APHIDS WAY SANITARY SEWER  
DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.50	U9

FILE NAME: C:\PWORKING\EAST\IND3592249\7-9012.50 - U9 - 05C-02.DGN

USER: ACAUDILL DATE PLOTTED: February 18, 2025

MicroStation v8.11.9.919



**CONCRETE THRUST BLOCKS**  
NTS

PLUGS						
SIZE	3"	4"	6"	8"	10"	12"
D	7"	9"	12"	16"	20"	23"
L & W	14"	17"	24"	32"	39"	45"

TEES						
SIZE	3"	4"	6"	8"	10"	12"
D	5"	5"	6"	9"	11"	14"
L	20"	22"	28"	36"	44"	52"
H	7"	10"	15"	20"	25"	30"
C (Max.)	11"	13"	16"	18"	22"	24"

90-Elig. (Quarter Bends)						
SIZE	3"	4"	6"	8"	10"	12"
D	7"	8"	12"	17"	20"	25"
L	24"	28"	40"	52"	62"	74"
H	11"	16"	20"	26"	32"	38"
C (Max.)	11"	13"	16"	18"	22"	24"

45-Elig. (Eighth Bends)						
SIZE	3"	4"	6"	8"	10"	12"
D	5"	6"	9"	13"	16"	19"
L	15"	20"	28"	36"	44"	52"
H	9"	12"	15"	20"	25"	30"
C (Max.)	6"	8"	10"	11"	13"	15"

22 1/2-Elig. (Sixteenth Bends)						
SIZE	3"	4"	6"	8"	10"	12"
D	3"	4"	5"	7"	9"	11"
L	12"	16"	20"	24"	30"	36"
H	6"	7"	11"	16"	20"	22"
C (Max.)	6"	8"	10"	11"	13"	15"

11 1/4-Elig. (Thirty-Second Bends)						
SIZE	3"	4"	6"	8"	10"	12"
D	3"	4"	5"	6"	7"	8"
L	12"	16"	20"	22"	26"	30"
H	6"	6"	7"	9"	12"	15"
C (Max.)	6"	8"	10"	11"	13"	15"

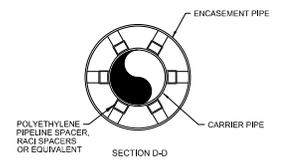
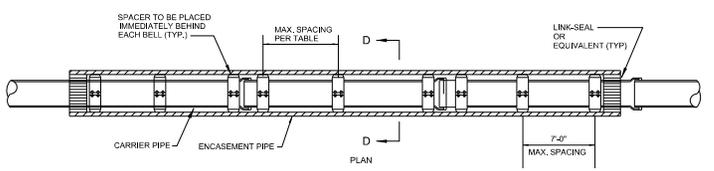
Crosses						
SIZE	3"	4"	6"	8"	10"	12"
D	15"	15"	15"	15"	18"	18"
L	18"	20"	23"	25"	29"	31"

Vertical Bends (45-Elig. or less)						
SIZE	3"	4"	6"	8"	10"	12"
D	18"	18"	24"	30"	36"	42"
Volume (Cu. Ft.)	13	19	38	66	99	139

NOTES: 1. TABLES ARE BASED ON A SOIL BEARING CAPACITY OF 2000 POUNDS/SQUARE FOOT (PSF)  
 2. IF SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, OR PIPE IS LAID IN FILL, CONSULT ENGINEER.  
 3. ALL FIGURES ARE MINIMUM UNLESS OTHERWISE STATED.  
 4. BLOCKS MUST BE PLACED AGAINST UNDISTURBED EARTH.

**THRUST BLOCK SCHEDULE**



- ENCASEMENT PIPE NOTES:**
- ENCASEMENT PIPE SHALL BE NEW GRADE B STEEL PIPE, INSTALLED WITHOUT BENDS.
  - ALL JOINTS IN ENCASEMENT PIPE SHALL BE WELDED, WELDS SHALL BE SOLID BUTT-WELDS WITH A SMOOTH NON-OBSTRUCTING JOINT INSIDE AND SHALL CONFORM TO AMERICAN WELDING SOCIETY SPECIFICATIONS.
  - MINIMUM ENCASEMENT PIPE WALL THICKNESS IS SPECIFIED IN SECTION 33 05 23.
  - PIPELINE SPACERS SHALL BE SELECTED AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

**TYPICAL ENCASEMENT PIPE INSTALLATION**  
NTS.

SCALE: N/A

APHIDS WAY SANITARY SEWER  
DETAIL SHEET