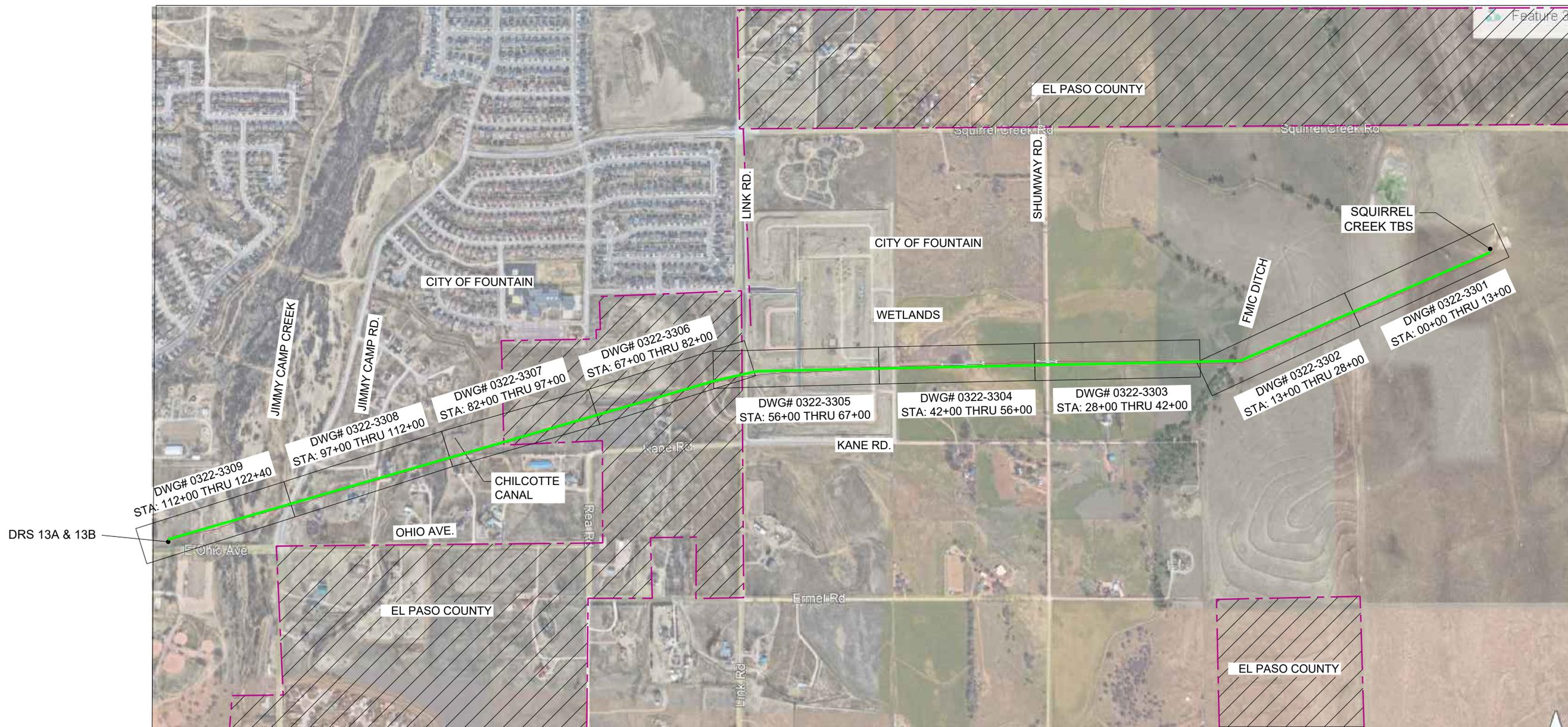
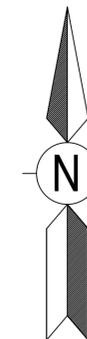


BLACK HILLS ENERGY SQUIRREL CREEK 8" STEEL PIPELINE FOUNTAIN, CO



KEY MAP
NOT TO SCALE



BILL OF MATERIALS	

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPR'D	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

 Black Hills Energy	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIRREL CREEK KEY MAP	
	WO: 10083285	EL PASO COUNTY	COLORADO
2024 CONSTRUCTION	DWS. TYPE PRELIM. BID FINAL ✓	DRAWN: SKS CHK. DR.: DJ	SCALE AS SHOWN SHEET NO.
DESIGNED IN ACCORDANCE WITH TITLE 49—PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.		DRAWING NUMBER: 0322-3000	DATE 9/9/2023 SHEET NO. 2 of 21

ADDITIONAL INFORMATION



OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

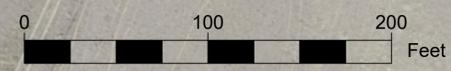
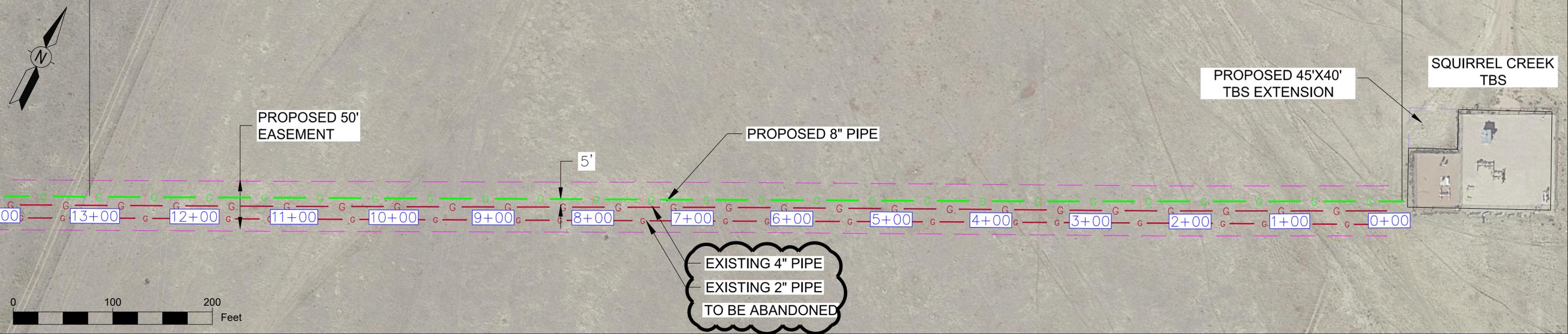
	G	GAS PIPELINE (EXISTING)		SS	SEWER PIPELINE		R.O.W. PIPELINE
	C	COMMUNICATION LINE		OH	OVERHEAD ELECTRIC LINE		WATER LINE
	G	GAS PIPELINE (PROPOSED)		E	ELECTRIC LINE		GAS PIPELINE--BORE (PROPOSED)

HORIZONTAL STATIONING

MATCH LINE
STA: 13+00
E:3241201.3471
N:1312994.9304
SEE DWG. 0322-3302

LINE START
STA: 0+00
E:3242389.9278
N:1313521.4672

ALIGNMENT SCALE: 1" = 100'



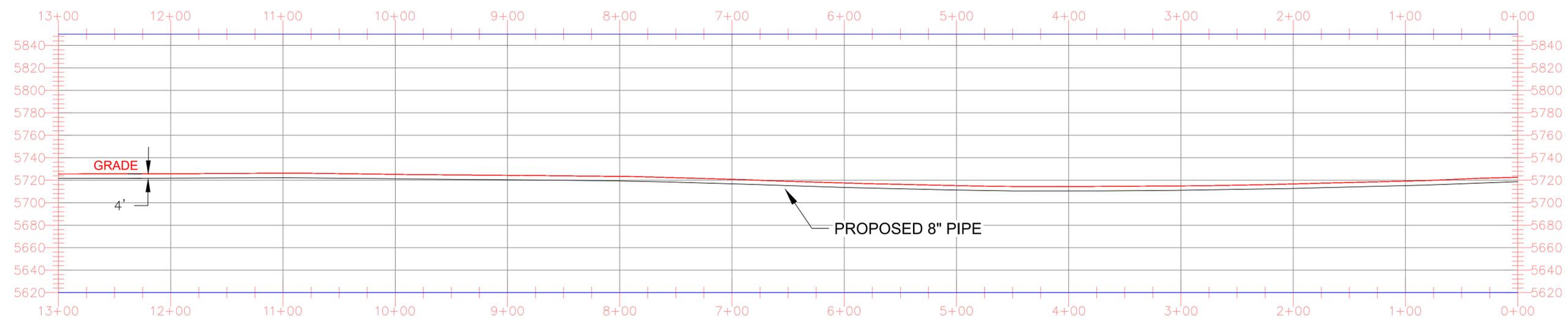
MATERIAL

STA. 13+00

1300'
①

STA. 0+00

PROFILE SCALE: 1" = 4'



NOTES

- STATIONING IS BASED ON HORIZONTAL DISTANCES.
- ALL GAS, WATER AND UTILITY LINES SHALL BE LOCATED PRIOR TO ANY EXCAVATING, DIGGING, OR TRENCHING ANYWHERE ON OR NEAR THIS SITE.
- BHE ASSUMES NO RESPONSIBILITY FOR THE SPECIFIC LOCATION OF ANY BURIED GAS, WATER, OR UTILITY LINES THAT MAY BE PRESENT ON OR NEAR THIS SITE, NOR IS ANY LIABILITY ASSUMED FOR ANY LEGAL ACTION WHICH RESULTS FROM A DISCOVERY OF A GAS, WATER, OR UTILITY LINE IN ADDITION TO OR IN A DIFFERENT LOCATION THAN SHOW ON THIS PLAN.
- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.

BILL OF MATERIALS

NO.	DESCRIPTION	QUANTITY
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	1300'

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD



ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

SQUIRREL CREEK
ALIGNMENT & BORE PROFILE SHEET
0+00 TO 13+00

2024 CONSTRUCTION
DWG. TYPE: PRELIM. BID FINAL ✓

WO: 10083285
DESIGNED IN ACCORDANCE WITH TITLE 49--PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.

EL PASO COUNTY COLORADO
DRAWN: SKS CHK. DR. DJ SCALE AS SHOWN DATE 9/8/23
SHEET NO. 3 of 21

DRAWING NUMBER: 0322-3301

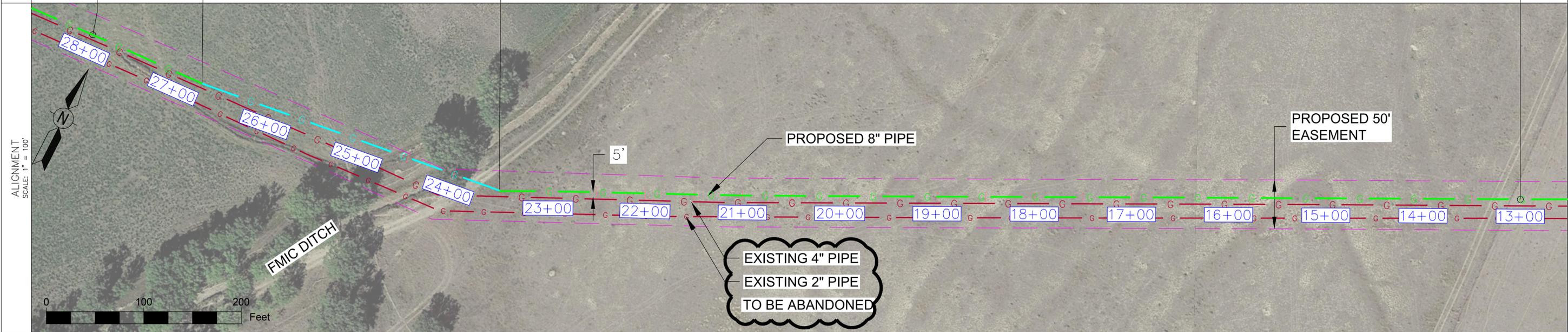
ADDITIONAL INFORMATION	OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
	ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
	JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
	DEPTH OF COVER	4 FT. MIN.	OPERATING PRESSURE	465 PSIG



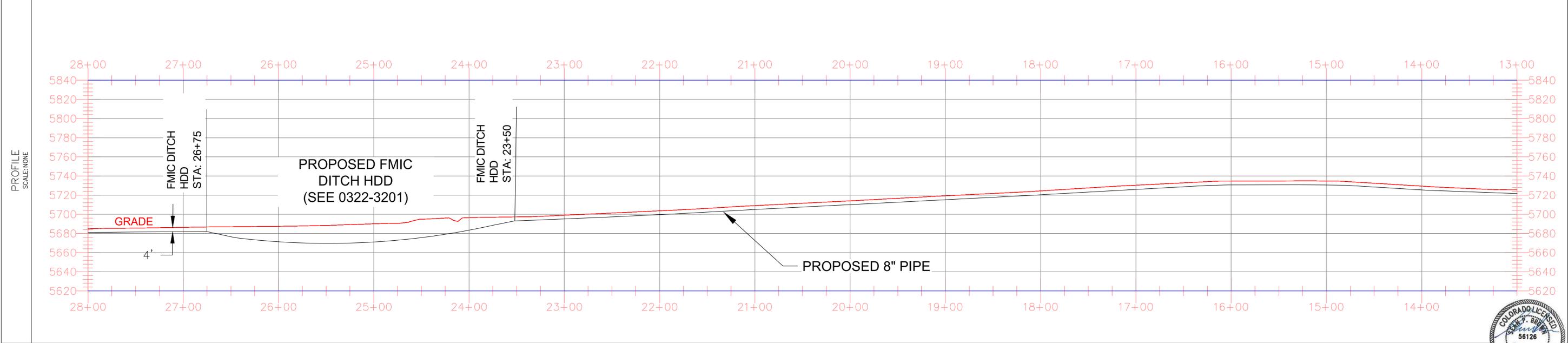
LEGEND:

	G	GAS PIPELINE (EXISTING)		SS	SEWER		R.O.W. PIPELINE
	C	COMMUNICATION LINE		OH	OVERHEAD ELECTRIC LINE		WATER LINE
	G	GAS PIPELINE (PROPOSED)		E	ELECTRIC LINE		GAS PIPELINE-BORE (PROPOSED)

HORIZONTAL STATIONING	MATCH LINE	STA: 28+00 E:3240285.1332 N:1312594.3242 SEE DWG. 0322-3303	FIMC DITCH HDD	STA: 26+75	FIMC DITCH HDD	STA: 23+50	MATCH LINE	STA: 13+00 E:3241201.3471 N:1312994.9304 SEE DWG. 0322-3301
	ALIGNMENT SCALE: 1" = 100'							



MATERIAL	STA. 28+00	450'	②	STA. 23+50	1050'	①	STA. 13+00
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- NOTES
- STATIONING IS BASED ON HORIZONTAL DISTANCES.
 - ALL GAS, WATER AND UTILITY LINES SHALL BE LOCATED PRIOR TO ANY EXCAVATING, DIGGING, OR TRENCHING ANYWHERE ON OR NEAR THIS SITE.
 - BHE ASSUMES NO RESPONSIBILITY FOR THE SPECIFIC LOCATION OF ANY BURIED GAS, WATER, OR UTILITY LINES THAT MAY BE PRESENT ON OR NEAR THIS SITE, NOR IS ANY LIABILITY ASSUMED FOR ANY LEGAL ACTION WHICH RESULTS FROM A DISCOVERY OF A GAS, WATER, OR UTILITY LINE IN ADDITION TO OR IN A DIFFERENT LOCATION THAN SHOW ON THIS PLAN.
 - GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
 - HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.



BILL OF MATERIALS		
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	1050'
2	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	450'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPRYD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIREL CREEK ALIGNMENT & BORE PROFILE SHEET 13+00 TO 28+00	
	2024 CONSTRUCTION DWG. TYPE: PRELIM. BID FINAL ✓	WO:10083285 DESIGNED IN ACCORDANCE WITH TITLE 48-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	ELPASO COUNTY COLORADO DRAWN: SKS CHK. DR.: DJ SCALE: AS SHOWN DATE: 9/8/23



OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

	G	GAS PIPELINE (EXISTING)		SS	SEWER PIPELINE		R.O.W. PIPELINE
	C	COMMUNICATION LINE		W	WATER LINE		WATER LINE
	OH	OVERHEAD ELECTRIC LINE		G	GAS PIPELINE--BORE (PROPOSED)		GAS PIPELINE--BORE (PROPOSED)
	E	ELECTRIC LINE					

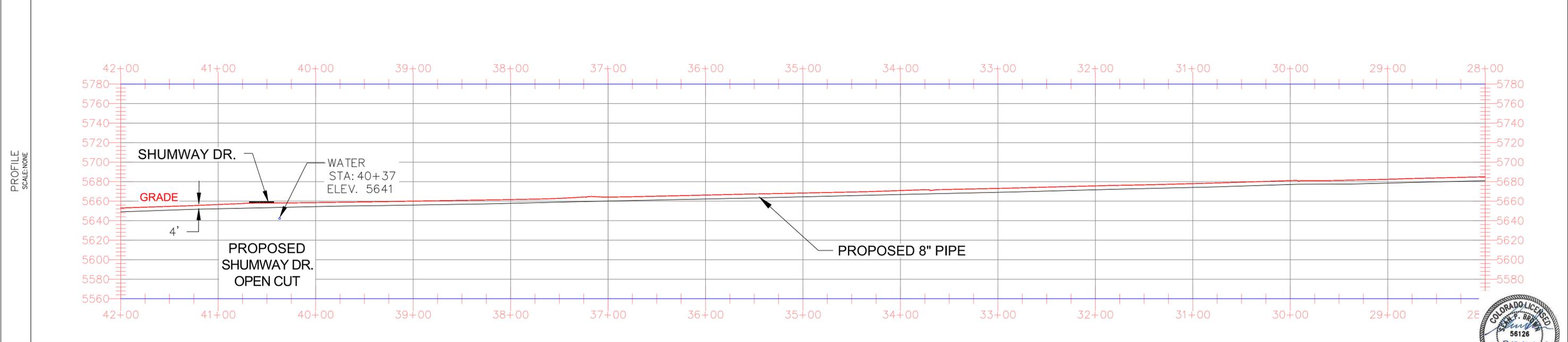
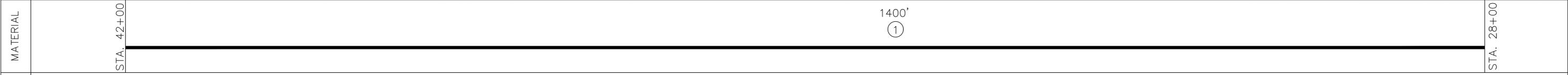
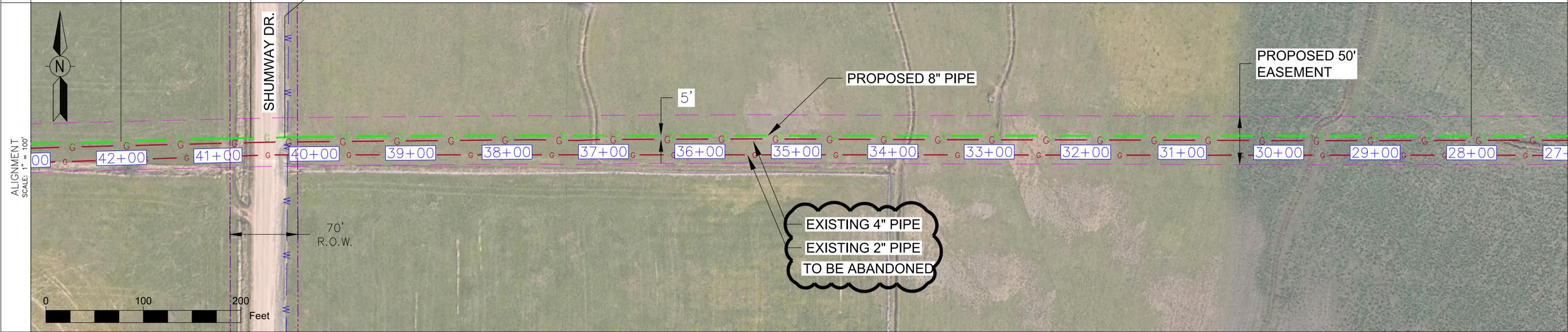
HORIZONTAL STATIONING

MATCH LINE
STA: 42+00
E:3238390.3774
N:1312533.1978
SEE DWG. 0322-3304

SHUMWAY RD. EDGE OF ROAD STA: 40+65

SHUMWAY RD. EDGE OF ROAD STA: 40+35

MATCH LINE
STA: 28+00
E:3240285.1332
N:1312594.3242
SEE DWG. 0322-3302



NOTES

- STATIONING IS BASED ON HORIZONTAL DISTANCES.
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- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.



BILL OF MATERIALS

1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	1400'
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REVISIONS

NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD

ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

WO: 10083285

EL PASO COUNTY COLORADO

2024 CONSTRUCTION

DWG. TYPE: PRELIM. BID FINAL ✓

DESIGNED IN ACCORDANCE WITH TITLE 49--PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.

EL PASO COUNTY COLORADO

DRAWN: SKS CHK. DR. DJ SCALE AS SHOWN DATE 9/8/23

DRAWING NUMBER: 0322-3303 SHEET NO. 5 of 21

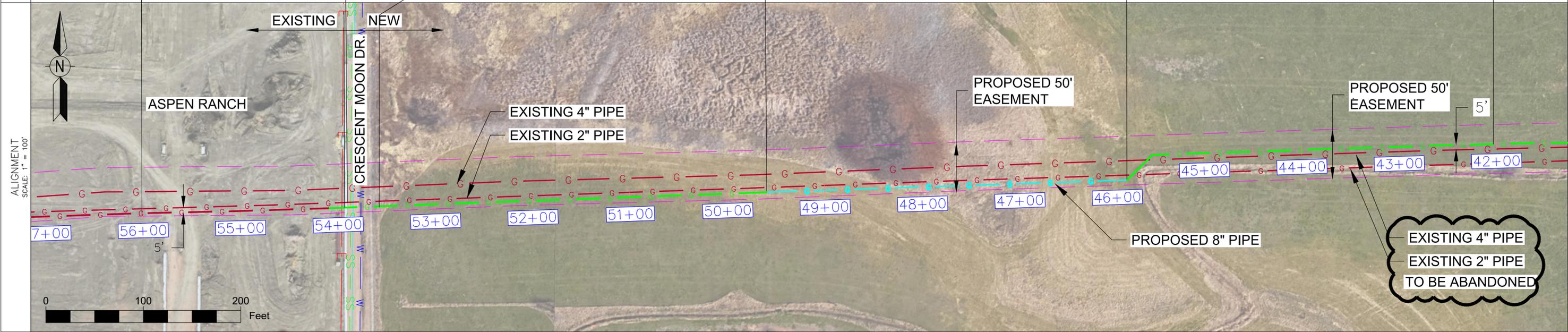


OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

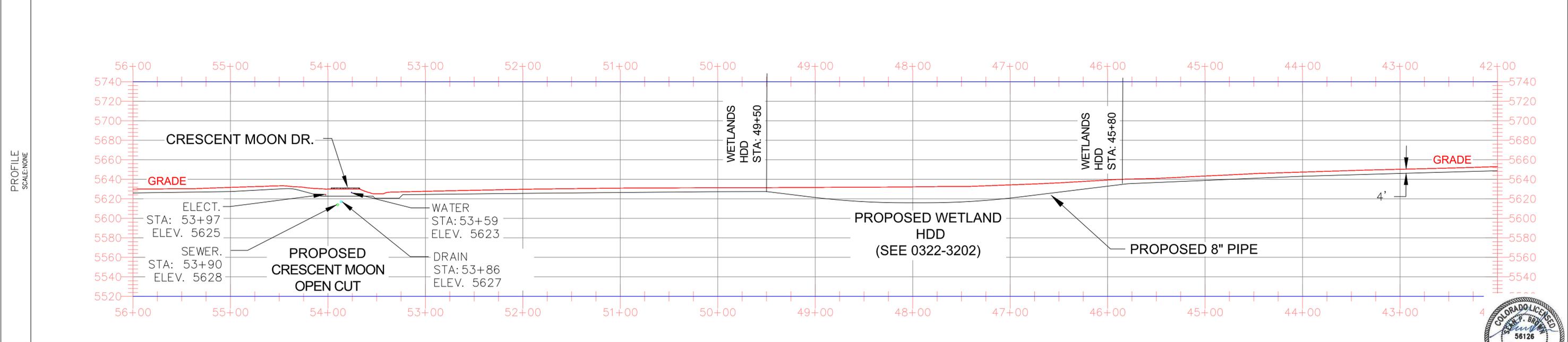
LEGEND:

	G	GAS PIPELINE (EXISTING)		SS	SEWER		W	WATER LINE		R.O.W. PIPELINE
	G	GAS PIPELINE (PROPOSED)		C	COMMUNICATION LINE		OH	OVERHEAD ELECTRIC LINE		WATER LINE
	E	ELECTRIC LINE		G	GAS PIPELINE-BORE (PROPOSED)					

HORIZONTAL STATIONING	MATCH LINE STA: 56+00 E:3237002.2567 N:1312451.8342 SEE DWG. 0322-3304A	CRESCENT MOON DRIVE EDGE OF ROAD STA: 53+90	CRESCENT MOON DRIVE EDGE OF ROAD STA: 53+63	WETLANDS HDD STA: 49+50	WETLANDS HDD STA: 45+80	MATCH LINE STA: 42+00 E:3238390.3774 N:1312533.1978 SEE DWG. 0322-3303



MATERIAL	STA. 54+13	463' ①	STA. 49+50	370' ②	STA. 45+80	380' ①	STA. 42+00
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NOTES

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- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.



BILL OF MATERIALS		
NO.	DESCRIPTION	QUANTITY
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	843'
2	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	370'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPROVD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIRREL CREEK ALIGNMENT & BORE PROFILE SHEET 42+00 TO 56+00	
	2024 CONSTRUCTION Dwg. Type: PRELIM, BID, FINAL ✓	WO: 10083285 DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	EL PASO COUNTY COLORADO DRAWN: SKS CHK. DR.: DJ SCALE: AS SHOWN DATE: 9/8/23 SHEET NO.: 6 of 21

ADDITIONAL INFORMATION

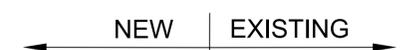


OWNERSHIP	EL PASO COUNTY	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

	G	GAS PIPELINE (EXISTING)		SS	SEWER PIPELINE		R.O.W. PIPELINE
	C	COMMUNICATION LINE		W	WATER LINE		OVERHEAD ELECTRIC LINE
	G	GAS PIPELINE (PROPOSED)		G	GAS PIPELINE--BORE (PROPOSED)		ELECTRIC LINE

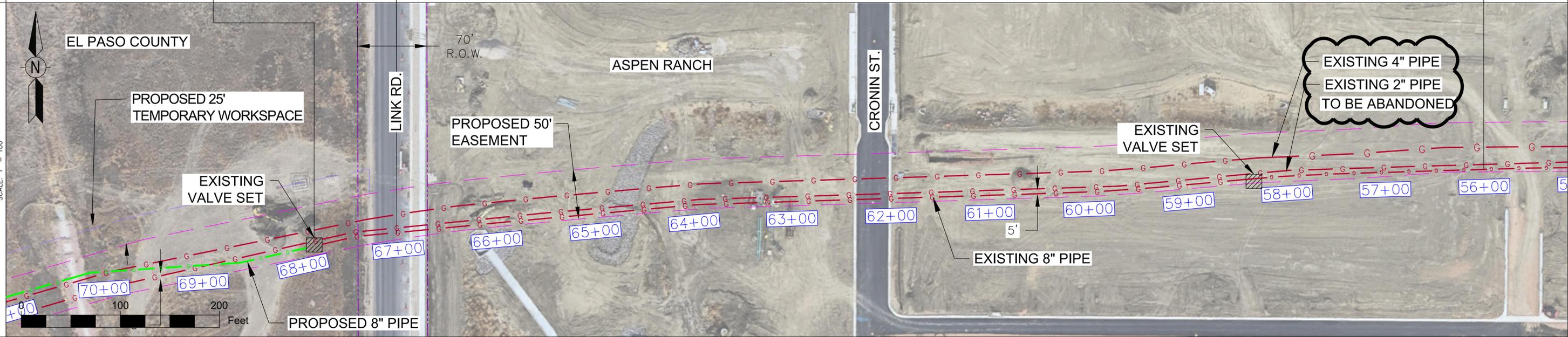
HORIZONTAL STATIONING



MATCH LINE
STA: 67+00
E: 3235906.0715
N: 1312380.1100
SEE DWG. 0322-3305

MATCH LINE
STA: 56+00
E: 3237002.2567
N: 1312451.8342
SEE DWG. 0322-3304

ALIGNMENT SCALE: 1" = 100'



MATERIAL

PROFILE SCALE: NONE

NOTES

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- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.

BILL OF MATERIALS

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHK.	APPR'D
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD

NO.	DESCRIPTION	DATE	BY	CHK.	APPR'D
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD



ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

SQUIREL CREEK
ALIGNMENT & BORE PROFILE SHEET
56+00 TO 67+00

2024 CONSTRUCTION
DWG. TYPE: PRELIM, BID, FINAL

WO: 10083285
DESIGNED IN ACCORDANCE WITH TITLE 49--PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.

EL PASO COUNTY COLORADO
DRAWN: SKS, CHK. DR.: DJ, DATE: 9/8/23
SCALE: AS SHOWN, SHEET NO.: 7 of 21

DRAWING NUMBER: 0322-3304A

ADDITIONAL INFORMATION



OWNERSHIP	EL PASO COUNTY	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

- G (Red line) GAS PIPELINE (EXISTING)
- G (Green line) GAS PIPELINE (PROPOSED)
- SS (Green line) SEWER
- C (Orange line) COMMUNICATION LINE
- OH (Red line) OVERHEAD ELECTRIC LINE
- E (Red line) ELECTRIC LINE
- W (Blue line) WATER LINE
- G (Cyan line) GAS PIPELINE--BORE (PROPOSED)
- Pipeline symbols R.O.W. PIPELINE, PIPELINE, OVERHEAD ELECTRIC LINE, WATER LINE, GAS PIPELINE--BORE (PROPOSED)

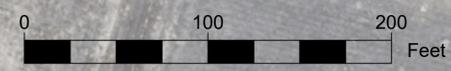
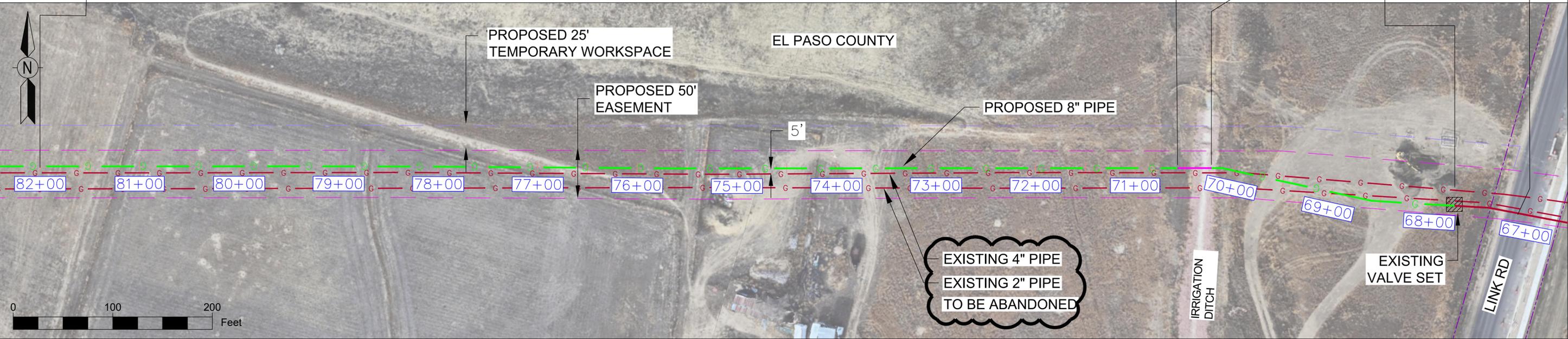
HORIZONTAL STATIONING

MATCH LINE
STA: 82+00
E:3234457.8599
N:1311999.9685
SEE DWG. 0322-3306

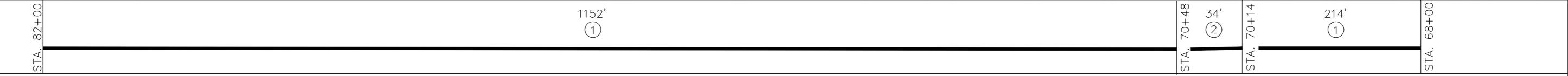
IRRIGATION DITCH WEST SHOULDER STA: 53+90
IRRIGATION DITCH EAST SHOULDER STA: 53+90

NEW EXISTING
MATCH LINE
STA: 67+00
E:3235905.0715
N:1312380.1100
SEE DWG. 0322-3304A

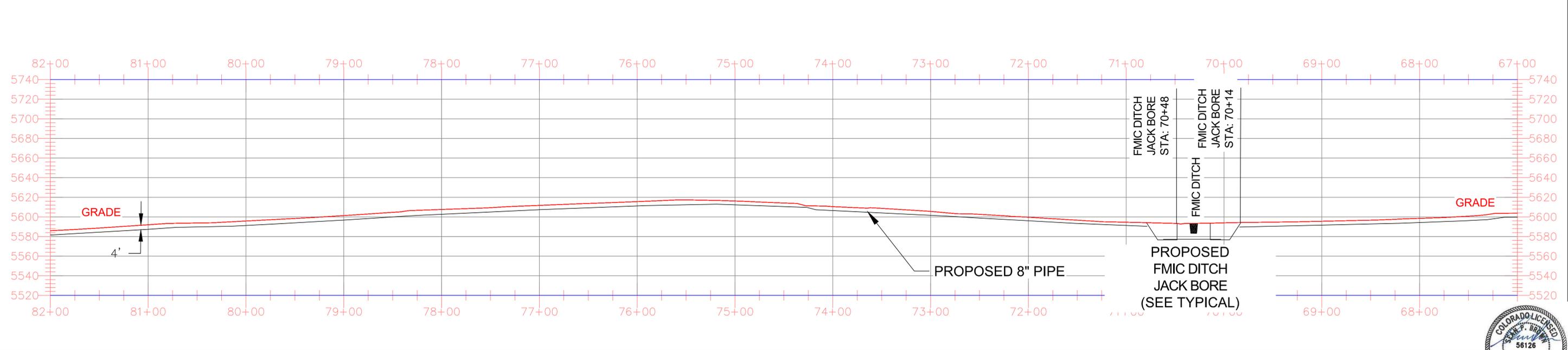
ALIGNMENT SCALE: 1" = 100'



MATERIAL



PROFILE SCALE: NONE



NOTES

- STATIONING IS BASED ON HORIZONTAL DISTANCES.
- ALL GAS, WATER AND UTILITY LINES SHALL BE LOCATED PRIOR TO ANY EXCAVATING, DIGGING, OR TRENCHING ANYWHERE ON OR NEAR THIS SITE.
- BHE ASSUMES NO RESPONSIBILITY FOR THE SPECIFIC LOCATION OF ANY BURIED GAS, WATER, OR UTILITY LINES THAT MAY BE PRESENT ON OR NEAR THIS SITE, NOR IS ANY LIABILITY ASSUMED FOR ANY LEGAL ACTION WHICH RESULTS FROM A DISCOVERY OF A GAS, WATER, OR UTILITY LINE IN ADDITION TO OR IN A DIFFERENT LOCATION THAN SHOW ON THIS PLAN.
- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.



1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	1366'
2	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	34'

NO.	DESCRIPTION	DATE	BY	CHKD	APPV'D
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD

2024 CONSTRUCTION
DWG. TYPE: PRELIM, BID, FINAL
PREF. BID FINAL

ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

WO: 10083285

DESIGNED IN ACCORDANCE WITH TITLE 49--PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.

SQUIREL CREEK
ALIGNMENT & BORE PROFILE SHEET
67+00 TO 82+00

EL PASO COUNTY COLORADO
DRAWN: SKS CHK. DR.: DJ SCALE: AS SHOWN DATE: 9/8/23
SHEET NO. 8 of 21



OWNERSHIP	CITY OF FOUNTAIN/EL PASO COUNTY	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

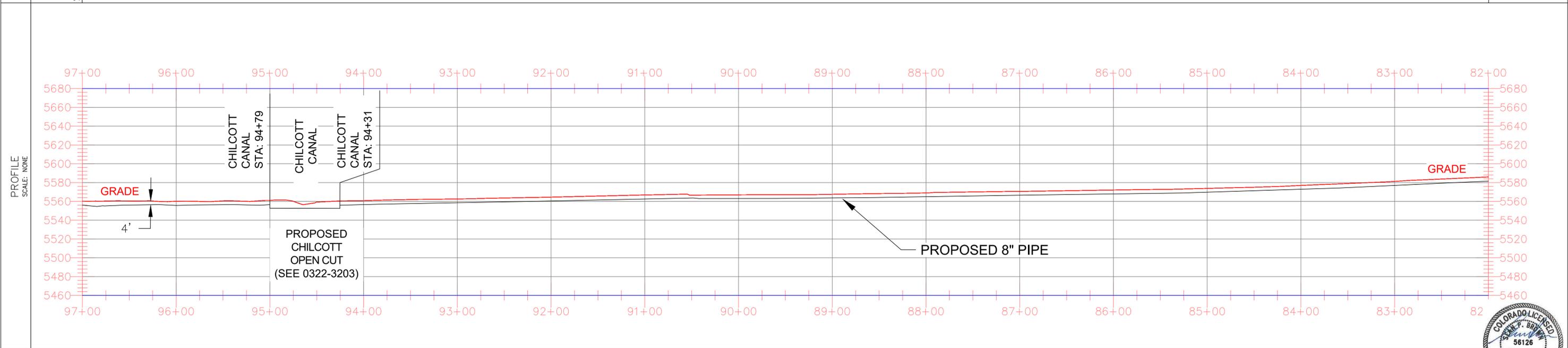
LEGEND:

	G	GAS PIPELINE (EXISTING)		SS	SEWER PIPELINE		R.O.W. PIPELINE
	C	COMMUNICATION LINE		OH	OVERHEAD ELECTRIC LINE		WATER LINE
	G	GAS PIPELINE (PROPOSED)		E	ELECTRIC LINE		GAS PIPELINE--BORE (PROPOSED)

HORIZONTAL STAIONING	MATCH LINE STA: 97+00 E:3233033.2019 N:1311797.7657 SEE DWG. 0322-3307	CHILCOTT CANAL OPEN CUT STA: 94+79	CHILCOTT CANAL OPEN CUT STA: 94+31	MATCH LINE STA: 82+00 E:3234457.8599 N:1311999.9685 SEE DWG. 0322-3305
	ALIGNMENT SCALE: 1" = 100'			



MATERIAL	STA. 97+00	1500'	STA. 82+00
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NOTES:

- STATIONING IS BASED ON HORIZONTAL DISTANCES.
- ALL GAS, WATER AND UTILITY LINES SHALL BE LOCATED PRIOR TO ANY EXCAVATING, DIGGING, OR TRENCHING ANYWHERE ON OR NEAR THIS SITE.
- BHE ASSUMES NO RESPONSIBILITY FOR THE SPECIFIC LOCATION OF ANY BURIED GAS, WATER, OR UTILITY LINES THAT MAY BE PRESENT ON OR NEAR THIS SITE, NOR IS ANY LIABILITY ASSUMED FOR ANY LEGAL ACTION WHICH RESULTS FROM A DISCOVERY OF A GAS, WATER, OR UTILITY LINE IN ADDITION TO OR IN A DIFFERENT LOCATION THAN SHOW ON THIS PLAN.
- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.



BILL OF MATERIALS		
NO.	DESCRIPTION	QUANTITY
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	1500'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIREL CREEK ALIGNMENT & BORE PROFILE SHEET 82+00 TO 97+00	
	2024 CONSTRUCTION DWG. TYPE: PRELIM, BID, FINAL ✓	WO: 10083285 DESIGNED IN ACCORDANCE WITH TITLE 49--PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	EL PASO COUNTY COLORADO

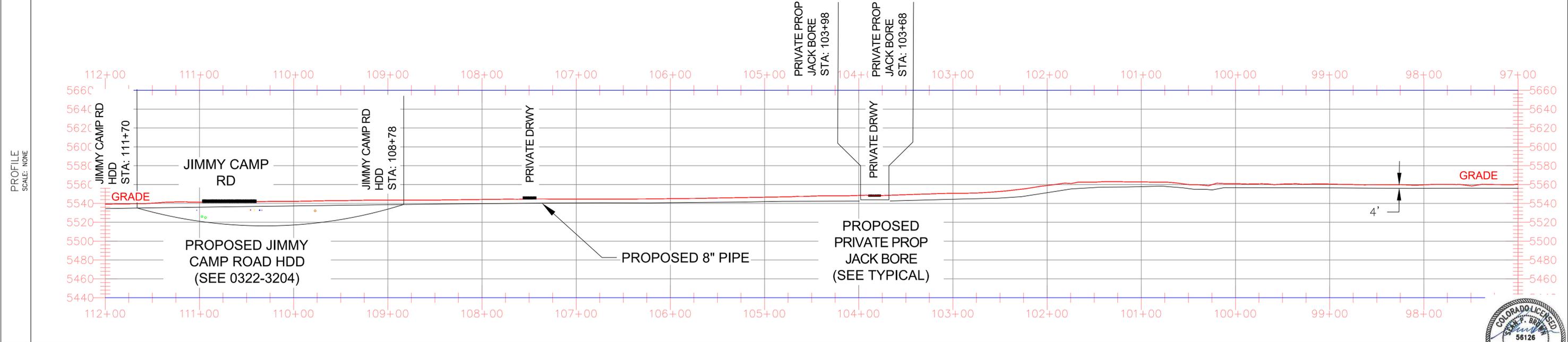
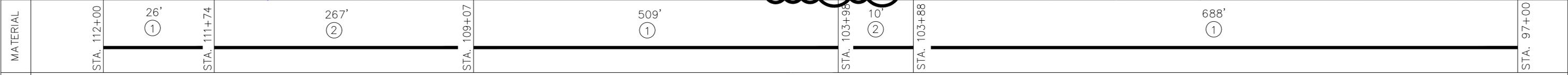
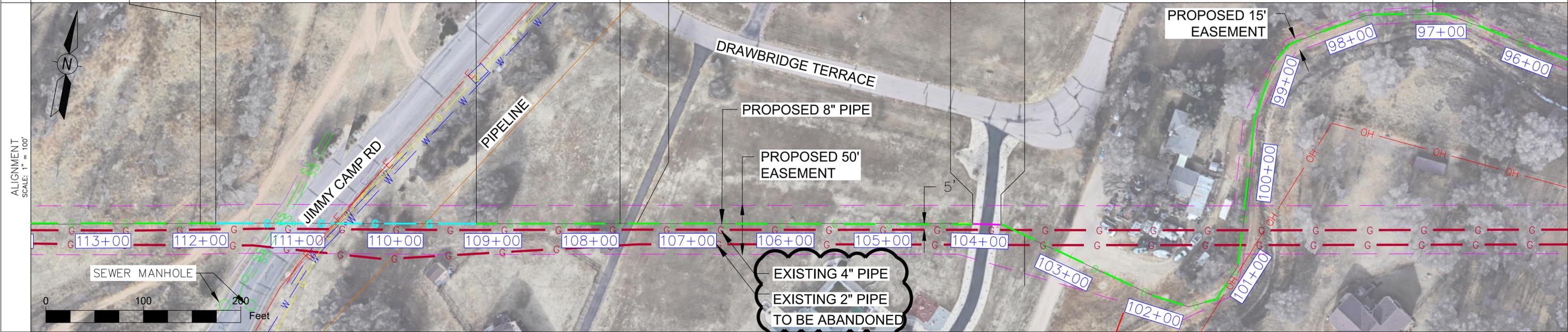


OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

	G	GAS PIPELINE (EXISTING)		SS	SEWER		R.O.W. PIPELINE	
	C	COMMUNICATION LINE		OH	OVERHEAD ELECTRIC LINE		W	WATER LINE
	G	GAS PIPELINE (PROPOSED)		E	ELECTRIC LINE		G	GAS PIPELINE--BORE (PROPOSED)

HORIZONTAL STATIONING	MATCH LINE STA: 112+00 E:3231874.3885 N:1311229.6015 SEE DWG. 0322-3308	JIMMY CAMP RD HDD STA: 111+74	JIMMY CAMP RD HDD STA: 109+07	PRIVATE DRWY STA: 107+35	PRIVATE DRWY STA: 107+18	PRIVATE PROP JACK BORE STA: 103+98	PRIVATE PROP JACK BORE STA: 103+68	MATCH LINE STA: 97+00 E:3233033.2019 N:1311797.7657 SEE DWG. 0322-3306
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- NOTES
- STATIONING IS BASED ON HORIZONTAL DISTANCES.
 - ALL GAS, WATER AND UTILITY LINES SHALL BE LOCATED PRIOR TO ANY EXCAVATING, DIGGING, OR TRENCHING ANYWHERE ON OR NEAR THIS SITE.
 - BHE ASSUMES NO RESPONSIBILITY FOR THE SPECIFIC LOCATION OF ANY BURIED GAS, WATER, OR UTILITY LINES THAT MAY BE PRESENT ON OR NEAR THIS SITE, NOR IS ANY LIABILITY ASSUMED FOR ANY LEGAL ACTION WHICH RESULTS FROM A DISCOVERY OF A GAS, WATER, OR UTILITY LINE IN ADDITION TO OR IN A DIFFERENT LOCATION THAN SHOW ON THIS PLAN.
 - GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
 - HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.



NO.	DESCRIPTION	LENGTH
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	1223'
2	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	277'

NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD

	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIREL CREEK ALIGNMENT SHEET 97+00 TO 112+00	
	EL PASO COUNTY COLORADO DRAWN: SKS CHK. DR.: DJ SCALE: AS SHOWN DATE: 9/8/23	WO: 10083285 2024 CONSTRUCTION PRELIM. BID FINAL ✓	SHEET NO. 10 of 21

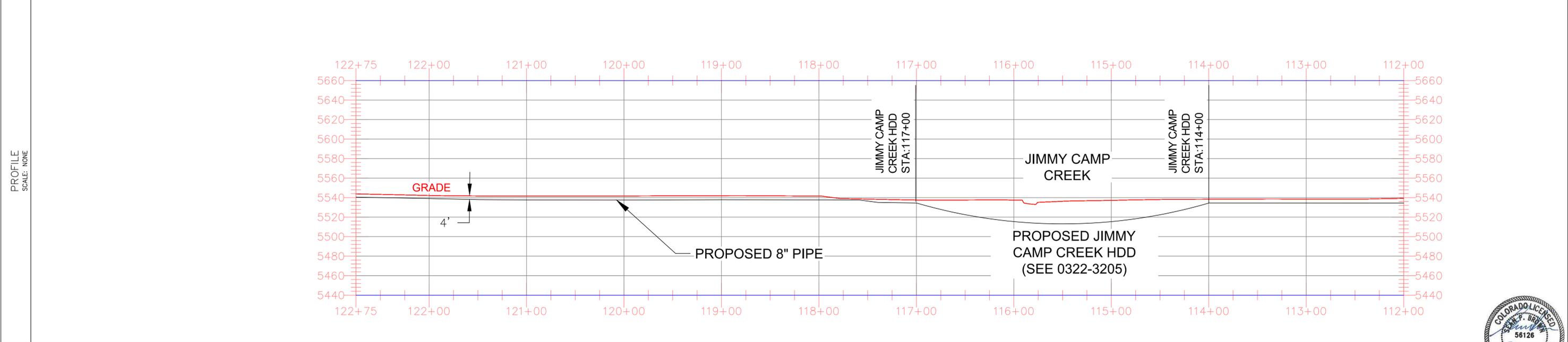
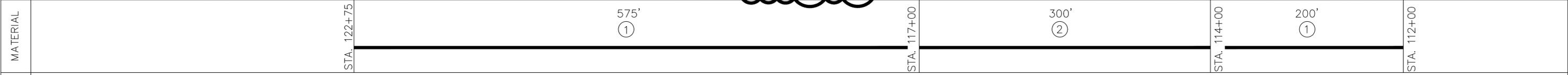
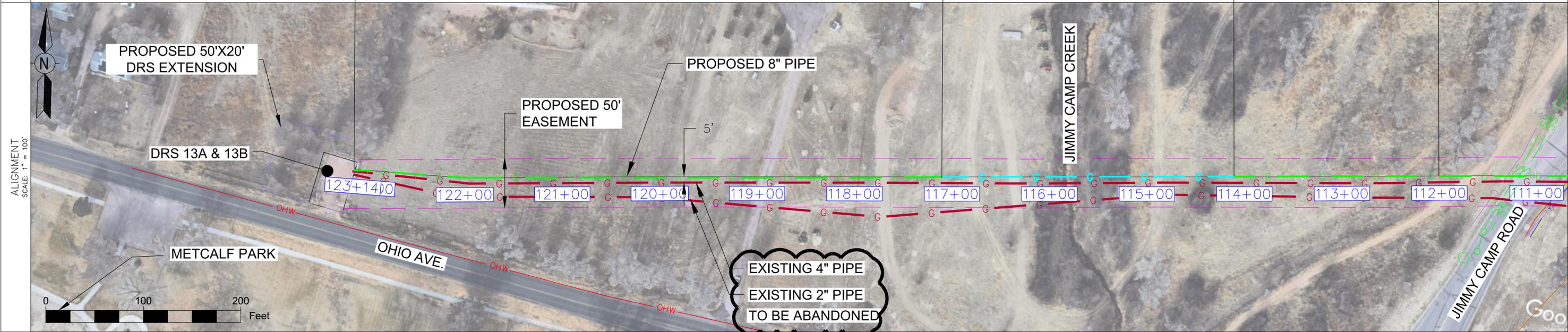


OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

	G	GAS PIPELINE (EXISTING)		SS	SEWER		R.O.W. PIPELINE	
	C	COMMUNICATION LINE		OH	OVERHEAD ELECTRIC LINE		W	WATER LINE
	G	GAS PIPELINE (PROPOSED)		E	ELECTRIC LINE		G	GAS PIPELINE--BORE (PROPOSED)

LINE END STA: 122+75 E:3230805.3346 N:1310918.1468	JIMMY CAMP CREEK HDD STA: 117+00	JIMMY CAMP CREEK HDD STA: 114+00	MATCH LINE STA: 112+00 E:3231874.3885 N:1311229.6015 SEE DWG. 0322-3307
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- NOTES
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 - GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
 - HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.



1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	775'
2	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	300'

NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD

	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIREL CREEK ALIGNMENT & BORE PROFILE SHEET 112+00 TO 122+40	
	2024 CONSTRUCTION Dwg. Type: PRELIM, BID, FINAL ✓	WO: 10083285 DESIGNED IN ACCORDANCE WITH TITLE 49--PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	EL PASO COUNTY COLORADO DRAWN: SKS CHK. DR.: DJ SCALE: AS SHOWN DATE: 9/8/23



OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

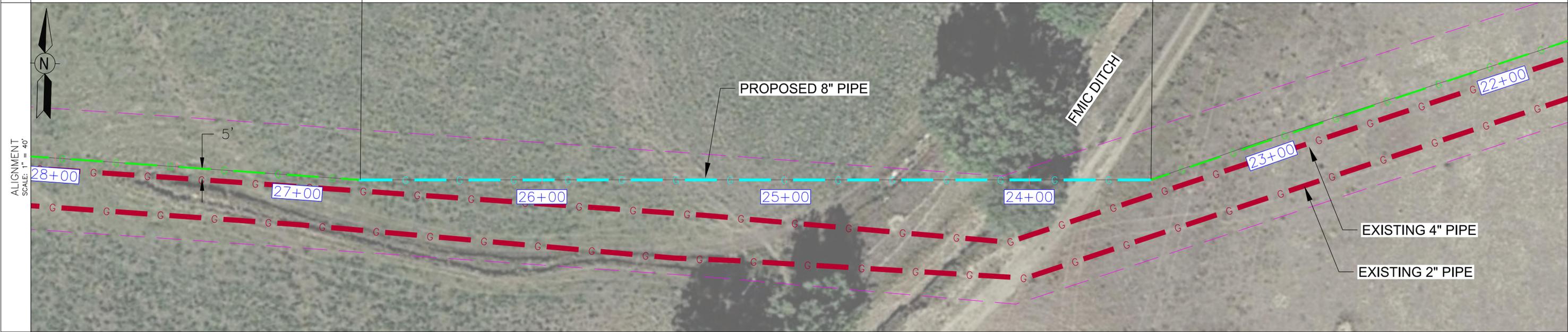
	G	GAS PIPELINE (EXISTING)		SS	SEWER		R.O.W. PIPELINE
	C	COMMUNICATION LINE		OH	OVERHEAD ELECTRIC LINE		WATER LINE
	G	GAS PIPELINE (PROPOSED)		E	ELECTRIC LINE		GAS PIPELINE-BORE (PROPOSED)

TEST STATION

HORIZONTAL STATIONING

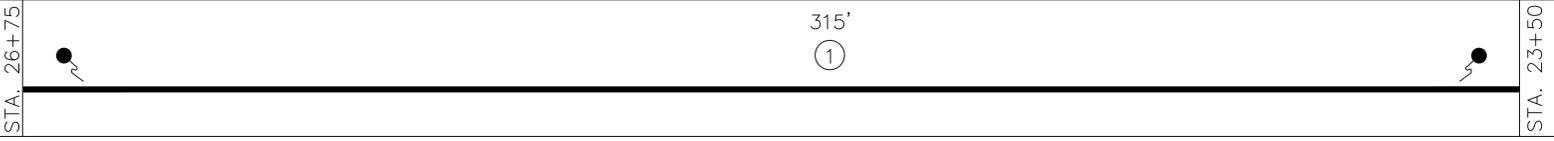
FMIC DITCH
HDD
STA: 26+75

FMIC DITCH
HDD
STA: 23+50

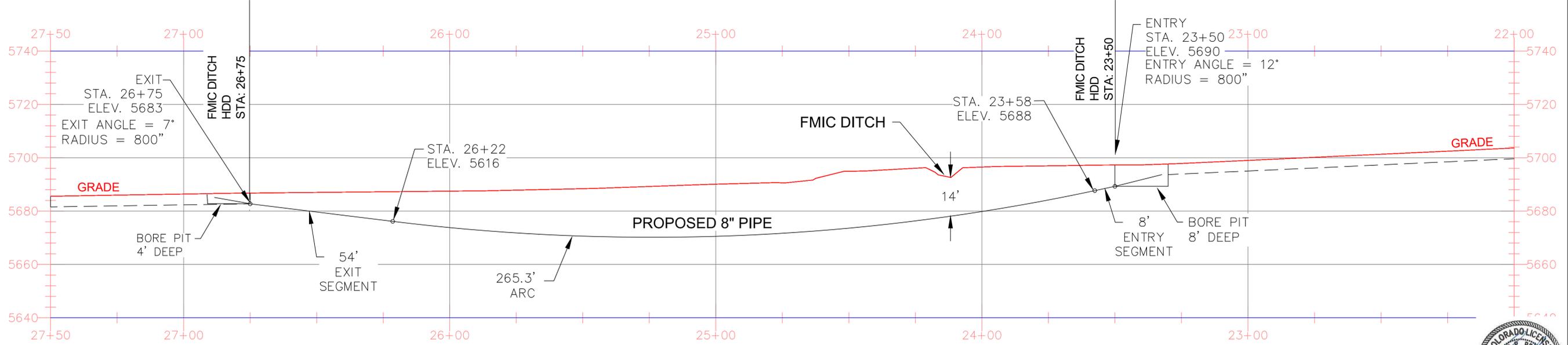


ALIGNMENT
SCALE: 1" = 40'

MATERIAL



PROFILE
SCALE: NONE



NOTES

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- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.
- FOR BORE DEPTH OF COVER PLEASE SEE DWG#0322-3601



BILL OF MATERIALS		
NO.	DESCRIPTION	QUANTITY
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	315'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIREL CREEK BORE PROFILE SHEET FMIC DITCH	
	WO: 10083285 EL PASO COUNTY COLORADO DRAWN SKS CHK. DR. DJ SCALE AS SHOWN DATE 9/8/23 SHEET NO. 12 of 21	2024 CONSTRUCTION Dwg. Type: PRELIM, BID, FINAL ✓ DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	



OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

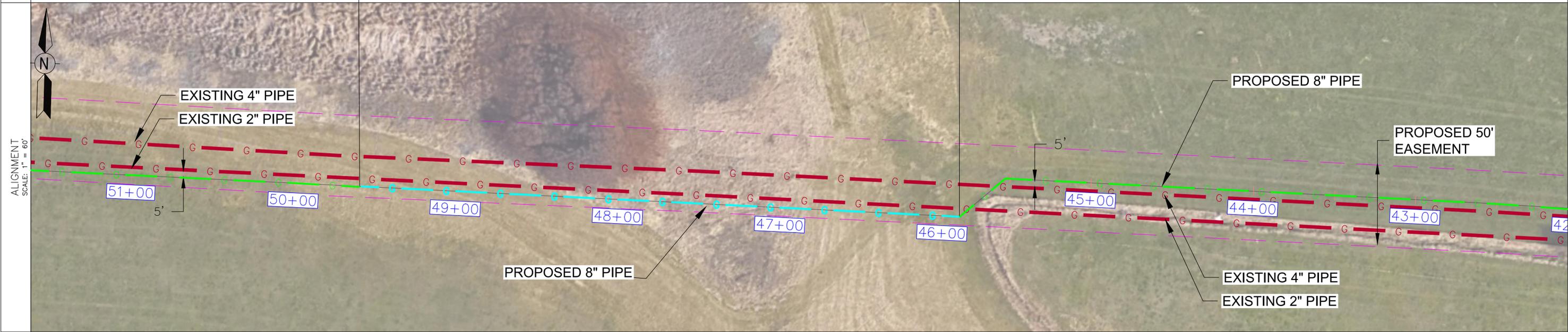
LEGEND:

	G	GAS PIPELINE (EXISTING)		SS	SEWER		C	COMMUNICATION LINE		W	WATER LINE		TEST STATION
	G	GAS PIPELINE (PROPOSED)		OH	OVERHEAD ELECTRIC LINE		G	GAS PIPELINE -BORE (PROPOSED)		E	ELECTRIC LINE		

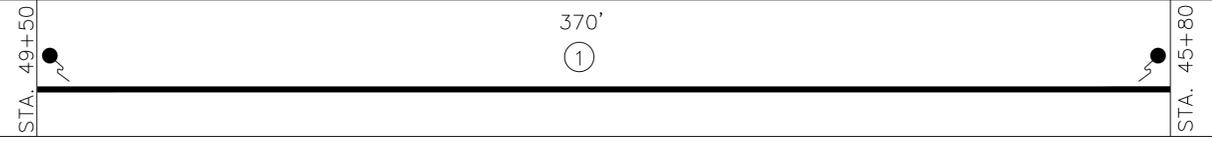
HORIZONTAL STATIONING

WETLANDS
HDD
STA: 49+50

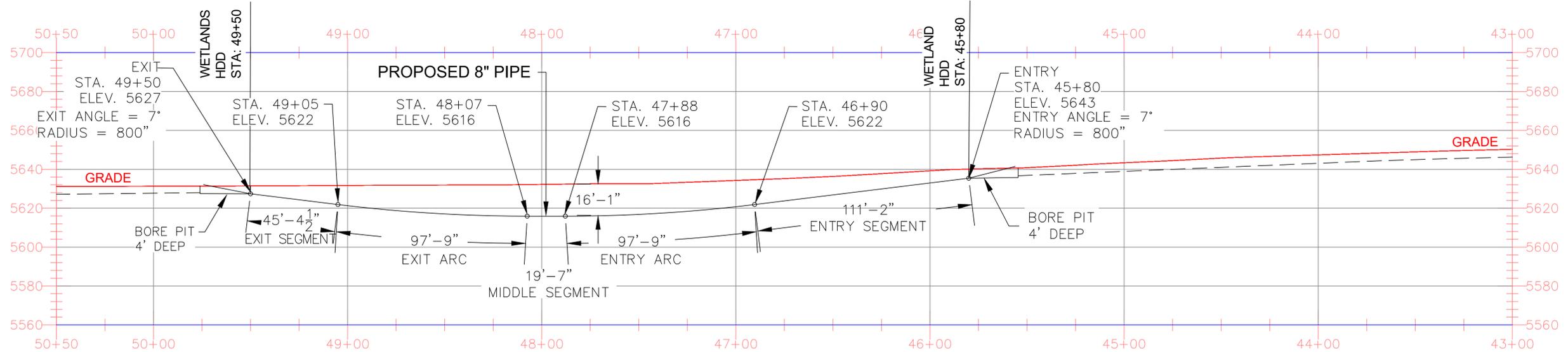
WETLANDS
HDD
STA: 45+80



MATERIAL



PROFILE
SCALE: HORIZONTAL 1"=100' VERTICAL 1"=60'



NOTES

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- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.
- FOR BORE DEPTH OF COVER PLEASE SEE DWG#0322-3601



BILL OF MATERIALS		
NO.	DESCRIPTION	QUANTITY
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	600'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIRREL CREEK BORE PROFILE SHEET WETLANDS HDD	
	WO: 10083285 EL PASO COUNTY COLORADO	DRAWN: SKS CHK. DR.: DJ SCALE: AS SHOWN DATE: 9/8/23	SHEET NO. 13 of 21

ADDITIONAL INFORMATION

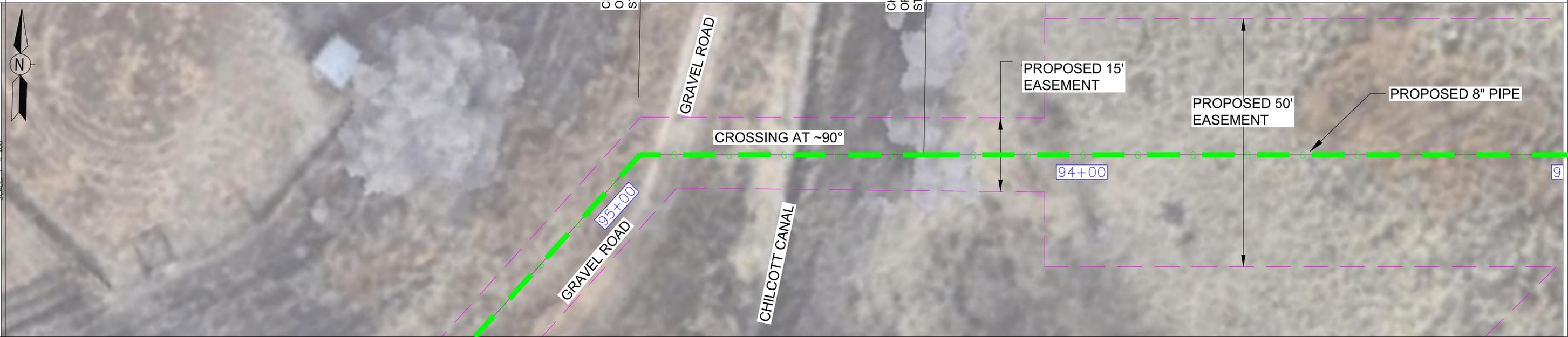


OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	6 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

- G (red line) GAS PIPELINE (EXISTING)
- G (green line) GAS PIPELINE (PROPOSED)
- SS (green line) SEWER
- C (orange line) COMMUNICATION LINE
- OH (red line) OVERHEAD ELECTRIC LINE
- E (red line) ELECTRIC LINE
- W (blue line) WATER LINE
- G (cyan line) GAS PIPELINE -BORE (PROPOSED)
- (dashed purple line) R.O.W. PIPELINE
- (dashed orange line) PIPELINE
- (dashed blue line) WATER LINE
- (dashed cyan line) GAS PIPELINE -BORE (PROPOSED)
- (black circle) TEST STATION

HORIZONTAL STATIONING

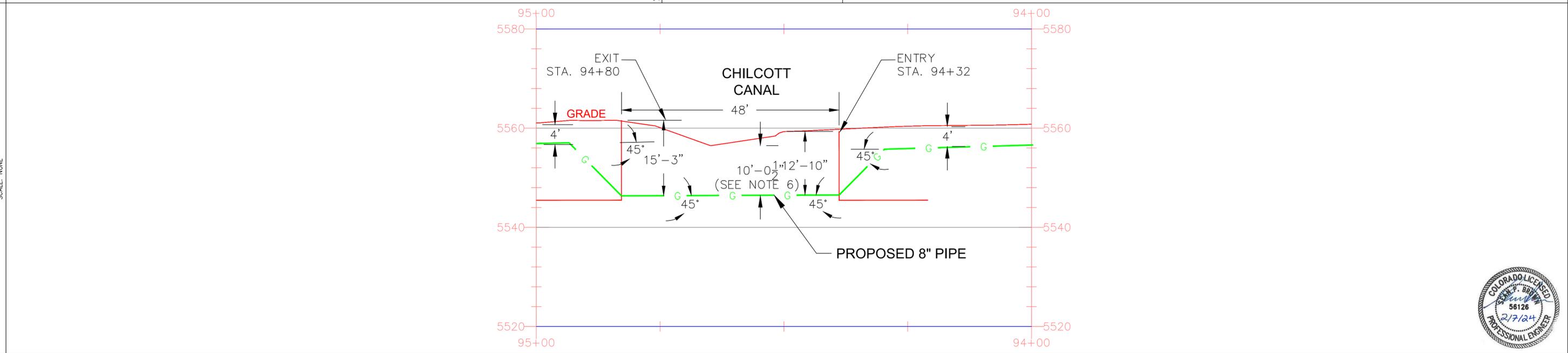


ALIGNMENT SCALE: 1" = 100'

MATERIAL



PROFILE SCALE: NONE



NOTES

- STATIONING IS BASED ON HORIZONTAL DISTANCES.
- ALL GAS, WATER AND UTILITY LINES SHALL BE LOCATED PRIOR TO ANY EXCAVATING, DIGGING, OR TRENCHING ANYWHERE ON OR NEAR THIS SITE.
- BHE ASSUMES NO RESPONSIBILITY FOR THE SPECIFIC LOCATION OF ANY BURIED GAS, WATER, OR UTILITY LINES THAT MAY BE PRESENT ON OR NEAR THIS SITE, NOR IS ANY LIABILITY ASSUMED FOR ANY LEGAL ACTION WHICH RESULTS FROM A DISCOVERY OF A GAS, WATER, OR UTILITY LINE IN ADDITION TO OR IN A DIFFERENT LOCATION THAN SHOWN ON THIS PLAN.
- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.
- FLOW-FILL SHALL BE USED TO BACKFILL THE TRENCH AT THE DITCH CROSSING.

BILL OF MATERIALS		
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING	48'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

**SQUIRREL CREEK
DETAIL PROFILE SHEET
CHILCOTT CANAL
OPEN CUT**

2024 CONSTRUCTION		WO: 10083285	EL PASO COUNTY	COLORADO
DWG. TYPE	PRELIM. BID FINAL ✓	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	DRAWN	SCALE AS SHOWN
CHK. DR.	DJ		DATE	9/8/23
DRAWING NUMBER:	0322-3203		SHEET NO.	14 of 21



OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

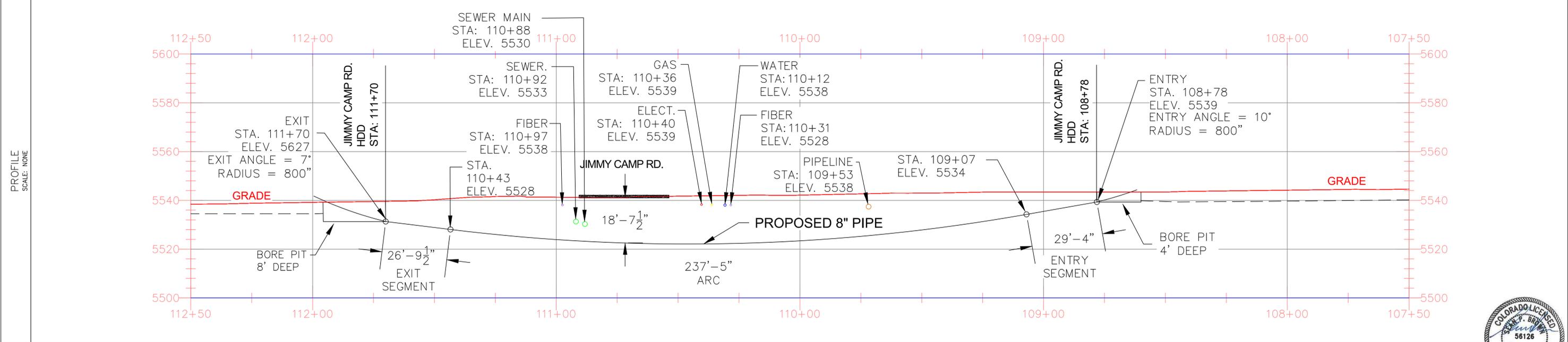
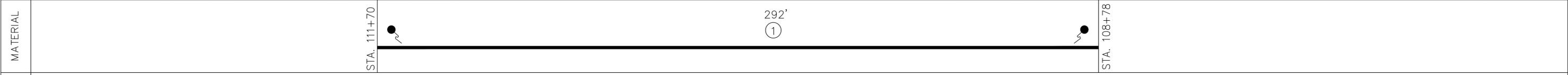
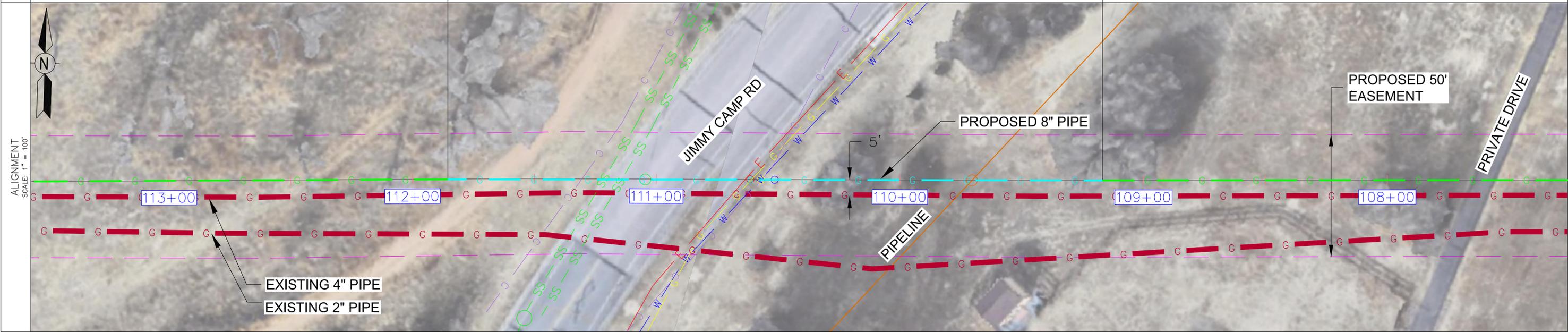
LEGEND:

- G (Red dashed line) GAS PIPELINE (EXISTING)
- G (Green dashed line) GAS PIPELINE (PROPOSED)
- SS (Green solid line) SEWER
- C (Orange solid line) COMMUNICATION LINE
- OH (Red solid line) OVERHEAD ELECTRIC LINE
- E (Blue solid line) ELECTRIC LINE
- W (Blue solid line) WATER LINE
- G (Cyan solid line) GAS PIPELINE-BORE (PROPOSED)
- (Purple dashed line) R.O.W. PIPELINE
- (Orange dashed line) OVERHEAD ELECTRIC LINE
- W (Blue dashed line) WATER LINE
- G (Cyan dashed line) GAS PIPELINE-BORE (PROPOSED)
- (Black circle) TEST STATION

HORIZONTAL STATIONING

JIMMY CAMP RD HDD STA: 111+70

JIMMY CAMP RD HDD STA: 108+78



- NOTES
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 - GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
 - HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.
 - FOR BORE DEPTH OF COVER PLEASE SEE DWG#0322-3601



BILL OF MATERIALS		
NO.	DESCRIPTION	QUANTITY
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	292'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

**SQUIREL CREEK
BORE PROFILE
JIMMY CAMP ROAD**

2024 CONSTRUCTION		WO: 10083285	EL PASO COUNTY	COLORADO
DWG. TYPE	PRELIM. BID FINAL ✓	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	DRAWN	SKS
CHK. DR.	DJ	SCALE AS SHOWN	DATE	9/8/23
DRAWING NUMBER:	0322-3204	SHEET NO.	15 of 21	



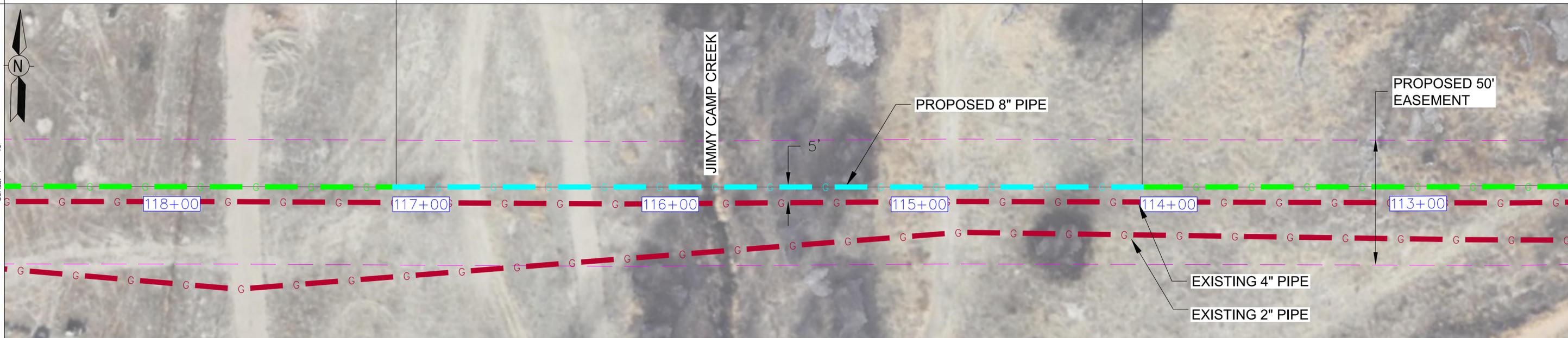
OWNERSHIP	CITY OF FOUNTAIN	MAOP	900 PSIG
ENVIRONMENTAL	--	CLASS LOCATION	CLASS 3 / DF = 0.5
JURISDICTION	--	TEST PRESSURE	1350 PSIG (MIN.) / 1658 PSIG (MAX)
DEPTH OF COVER	4 FT MIN.	OPERATING PRESSURE	465 PSIG

LEGEND:

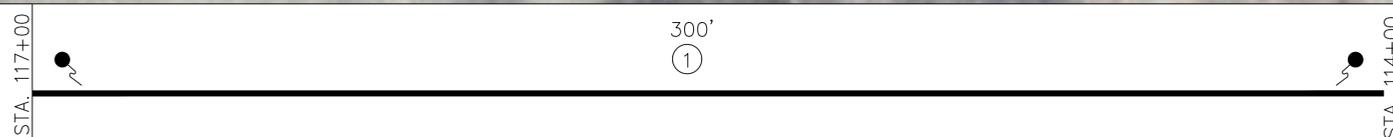
	G	GAS PIPELINE (EXISTING)		SS	SEWER		R.O.W. PIPELINE		TEST STATION
	C	COMMUNICATION LINE		OH	OVERHEAD ELECTRIC LINE		W	WATER LINE	
	G	GAS PIPELINE (PROPOSED)		E	ELECTRIC LINE		G	GAS PIPELINE-BORE (PROPOSED)	

HORIZONTAL STATIONING

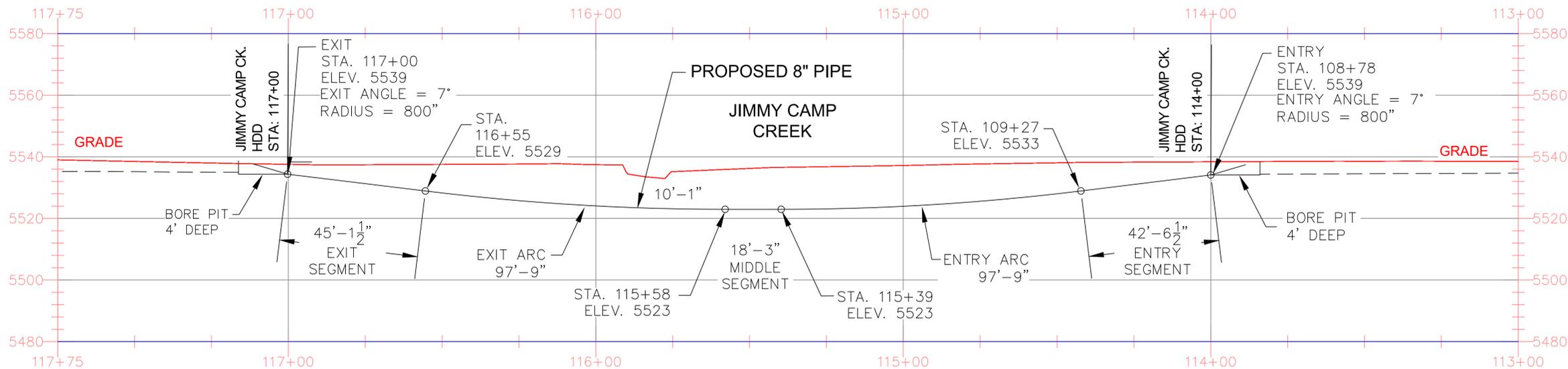
ALIGNMENT SCALE: 1" = 40'



MATERIAL



PROFILE SCALE: NONE



NOTES

- STATIONING IS BASED ON HORIZONTAL DISTANCES.
- ALL GAS, WATER AND UTILITY LINES SHALL BE LOCATED PRIOR TO ANY EXCAVATING, DIGGING, OR TRENCHING ANYWHERE ON OR NEAR THIS SITE.
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- GROUND SURVEY PROVIDED BY ENCOMPASS SERVICES, OCTOBER, 2023.
- HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE CENTRAL ZONE.
- FOR BORE DEPTH OF COVER PLEASE SEE DWG#0322-3601



BILL OF MATERIALS		
NO.	DESCRIPTION	QUANTITY
1	8.625" OD 0.250" WT API 5LS X52 W14-16 MILLS FBE COATING AND 40 MILS ARO	300'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

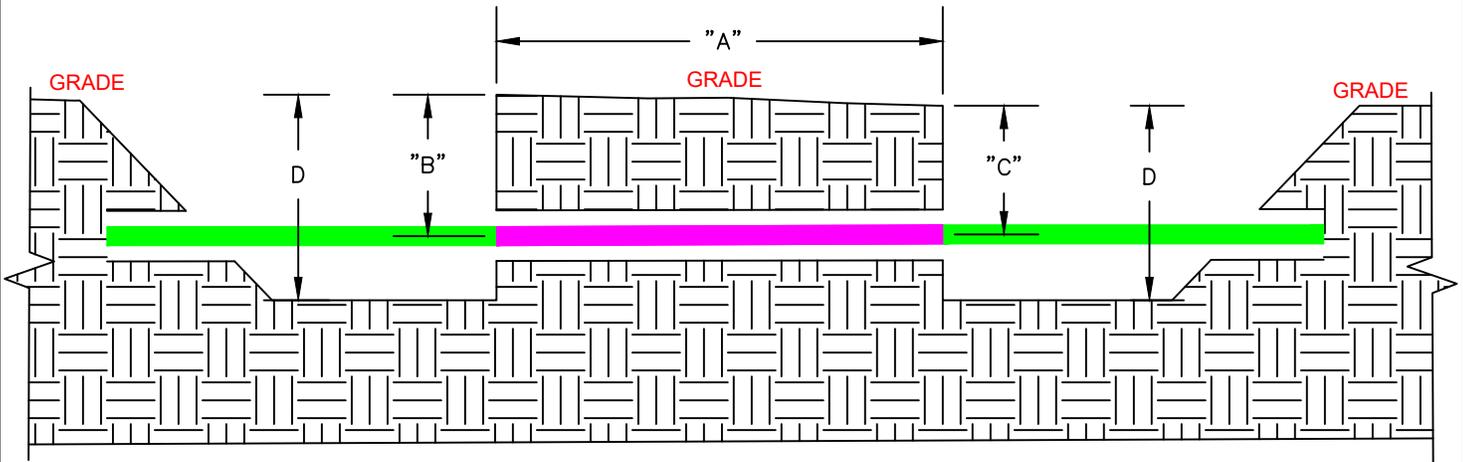
	ENGINEERING DESIGN 760 ALEGRE DR. FOUNTAIN, CO 80817	SQUIREL CREEK BORE PROFILE SHEET JIMMY CAMP CREEK	
	2024 CONSTRUCTION Dwg. Type: PRELIM, BID, FINAL ✓	WO: 10083285 DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	EL PASO COUNTY COLORADO

DATA TABLE

DESCRIPTION	SHEET	LENGTH "A"	DEPTH "B"	DEPTH "C"	DEPTH BELOW OBSTACLE
FMIC DITCH	7	34'-0"	16'-3"	16'-3"	6'-0"
PRIVATE PROP	9	30'-0"	4'-4"	4'-5"	4'-0"

* DIMENSION "D" IS TO BE DETERMINED BY CONTRACTOR.

- BORE PIPE
- INTERCONNECTION PIPE



JACK AND BORE TYPICAL DETAIL
SCALE=NONE



Know what's below.
Call before you dig.

DRAWING REVISIONS					
NO.	DESCRIPTION	DATE	BY	CK.	APPRYD
0	ISSUED FOR CONSTRUCTION	12/14	SKS	SB	CD
B	REVISED	12/10	SKS	DJ	CD
A	FOR REVIEW	11/10	SKS	DJ	CD

DRAWING APPROVALS		
TYPE	DATE	BY
MECHANICAL		
ELECTRICAL		
PROJECT	11/10/2023	DEZMOND JEANS
PIPELINE		
DRAFTING	11/10/2023	SCOTT SHEPERD
MEASUREMENT		
FIELD		

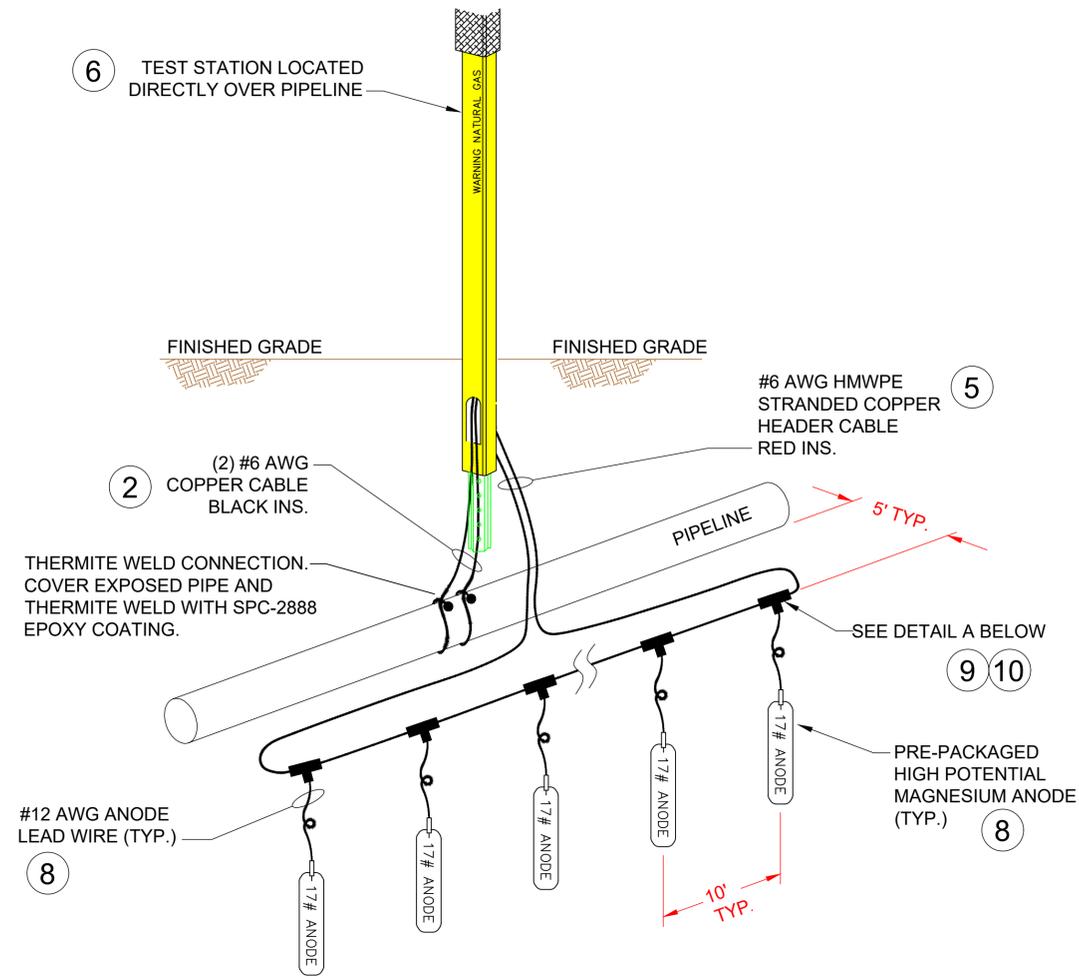


Natural Gas
Engineering Services
1102 E 1st Street
Papillion, NE 68046

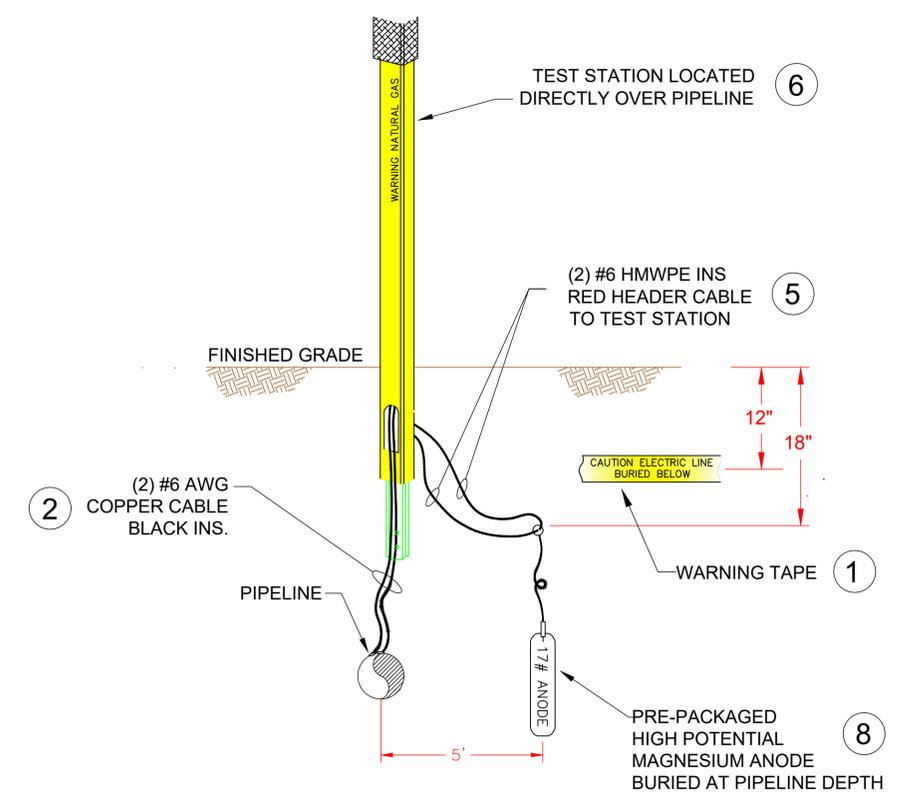
JACK AND BORE TYPICAL

PIPING
STANDARDS

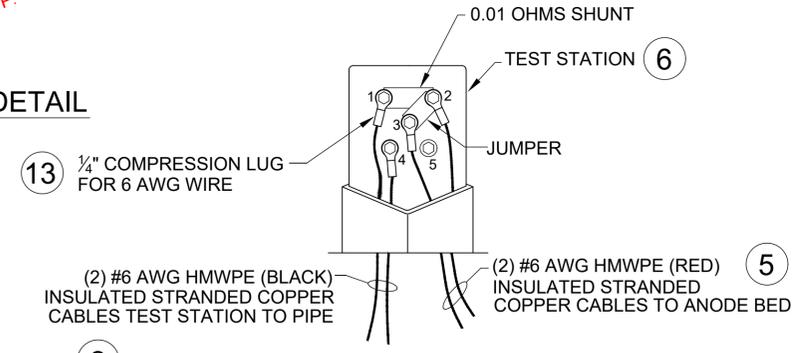
DRAWN BY SKS	DATE 11/10/2023	STANDRAD DRAWING
SCALE AS-NOTED	CHECKED DJ	DWG. TYPE PRELIM. BID FINAL X
CADD FILE TBD		W.O. NO. 10083285
P.N. TBD		SHEET NO. 17 of 21



MAGNESIUM ANODE INSTALLATION DETAIL



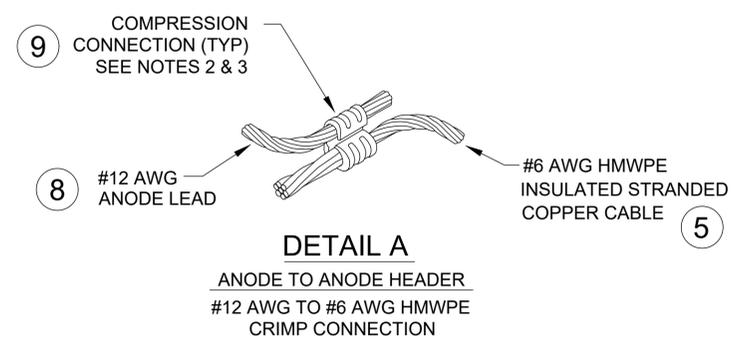
**SIDE VIEW
MAGNESIUM ANODE
INSTALLATION**



**ANODE TEST STATION
WIRING DETAIL
(SHOWN WITHOUT COVER)**

ANODE TEST STATION WIRING DETAIL

ANODE TEST STATION WIRING			
CONNECTIONS TO:		QUANTITY	TAPE OR WIRE COLOR
TERMINAL	PIPE/DEVICE		
1	PIPELINE	1	#6 AWG (BLACK)
2	ANODE BED	1	#6 AWG (RED)
3	ANODE BED	1	#6 AWG (RED)
4	PIPELINE	1	#6 AWG (BLACK)
5	UNUSED	-	-



**DETAIL A
ANODE TO ANODE HEADER
#12 AWG TO #6 AWG HMWPE
CRIMP CONNECTION**

NOTES:

1. INSTALL MAGNESIUM ANODE BEDS AT LOCATIONS ALONG PIPELINE ACCORDING TO CP TECHNICIAN INSTRUCTIONS.
2. INSTALL MAGNESIUM ANODE A MINIMUM OF 5' AWAY FROM PIPELINE.
3. ANODE CAN BE INSTALLED IN HORIZONTAL OR VERTICAL CONFIGURATIONS.
4. ANODE BED TO BE CENTERED AT LOCATION INDICATED BY CP TECHNICIAN .
5. INSTALL WARNING TAPE (ITEM 1) APPROXIMATELY 1 FT BELOW GRADE OVERALL ANODE BED.
6. THE MAGNESIUM ANODES WILL BE INSTALLED AT LEAST AS DEEP AS THE BOTTOM OF THE PIPE.
7. USE RESIN SPLICE KIT TO SEAL CRIMP CONNECTIONS.
8. COMPRESS CRIMP CONNECTOR USING CORRECT HAND OPERATED OR HYDRAULIC CRIMPING TOOL WITH CORRECT DIE FOR THE GIVEN CRIMP CONNECTOR.

NOTES

1. STATIONING IS BASED ON HORIZONTAL DISTANCES.
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4. GROUND SURVEY PROVIDED BY (SURVEYOR), (MONTH), 20XX.
5. HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE SOUTH ZONE (0503). VERTICAL DATUM IS NAVD88 AND BASED ON AN OPUS SOLUTION UTILIZING GEOID 12B.

BILL OF MATERIALS

SEE MATERIAL LIST ON DRAWING 0322-5993
--

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
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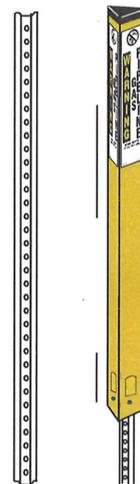
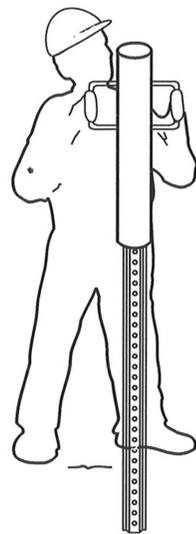


ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

**SQUIRREL CREEK
CATHODIC PROTECTION TEST STATION
DETAILS 1**

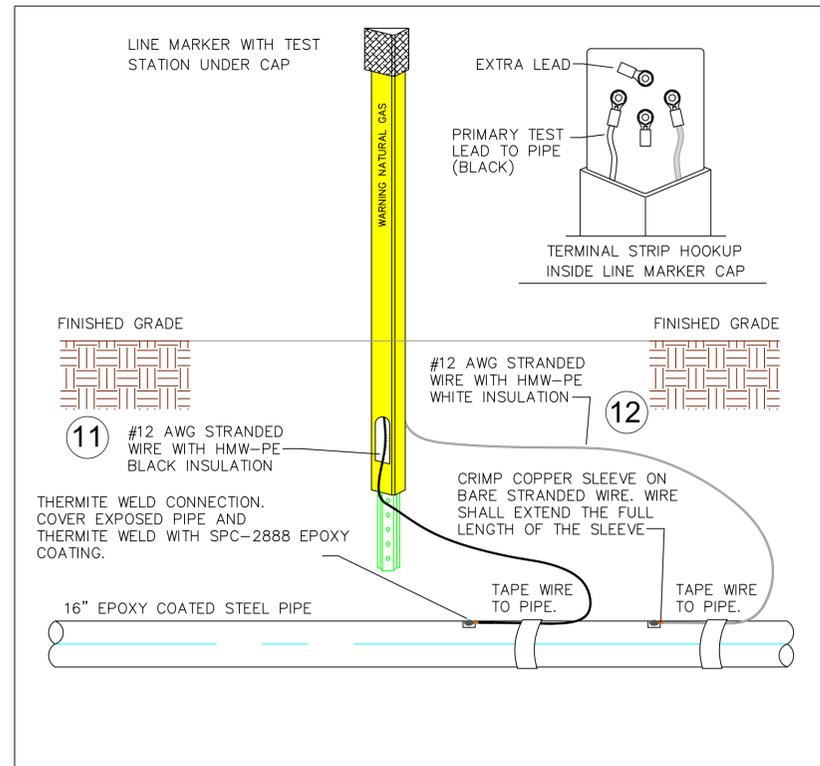
2024 CONSTRUCTION	WO: 10083285	EL PASO COUNTY	COLORADO
DWG. TYPE PRELIM. BID FINAL ✓	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND OPTIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	DRAWN SKS	SCALE AS SHOWN
		CHK. DR. DJ	DATE 9/8/23
		DRAWING NUMBER: 0322-5990	SHEET NO. 18 of 21

New Installation With U-Channel Posts



1. Drive u-channel 18"-24" into ground.
2. Slide TriView over the u-channel post.
3. Fasten TriView to u-channel post with the TriView Fastener or bolts.

TriView fasteners.
One hit with a hammer locks the TriView onto a 1.12 lb. u-channel post.



PART	QUANTITY	UNIT	SIZE	ITEM DESCRIPTION	M.S. No.	CLASS	ITEM
11	TBD FT		#12 AWG	HMWPE (BLACK) INSULATED STRANDED COPPER CABLE, SOFT-DRAWN, COMMERCIALY PURE COPPER, ASTM B8, CLASS B STD.		N/A	
12	TBD FT		#12 AWG	HMWPE (WHITE) INSULATED STRANDED COPPER CABLE, SOFT-DRAWN, COMMERCIALY PURE COPPER, ASTM B8, CLASS B STD.		N/A	

LINE MARKER/CATHODIC TEST STATION DETAIL

NO SCALE

NOTES

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4. GROUND SURVEY PROVIDED BY (SURVEYOR), (MONTH), 20XX.
5. HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE SOUTH ZONE (0503). VERTICAL DATUM IS NAVD88 AND BASED ON AN OPUS SOLUTION UTILIZING GEOID 12B.

BILL OF MATERIALS

NO.	DESCRIPTION	QUANTITY
1	8" API 5LS X52 W/14-16 MILLS FBE COATING AND 40 MILS ARO	750'
2	8" API 5LS X52 W/14-16 MILLS FBE COATING AND 40 MILS ARO, WT-0.250"	225'

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD



ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

SQUIRREL CREEK
CATHODIC PROTECTION TEST STATION
DETAILS 2

2024 CONSTRUCTION

WO: 10083285

ELPASO COUNTY COLORADO

DWG. TYPE

DRAWN SKS CHK. DR. DJ SCALE AS SHOWN DATE 9/8/23

PRELIM. BID FINAL ✓

DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPIC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.

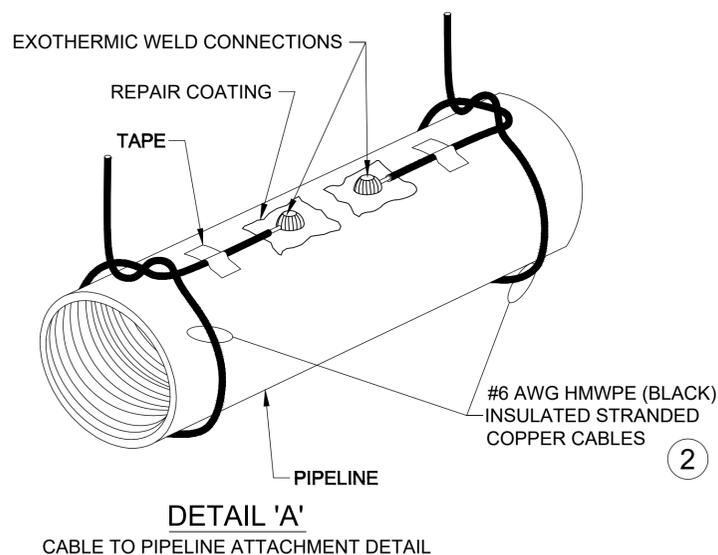
DRAWING NUMBER: 0322-5991 SHEET NO. 19 of 21

EXOTHERMIC WELD INSTRUCTIONS:

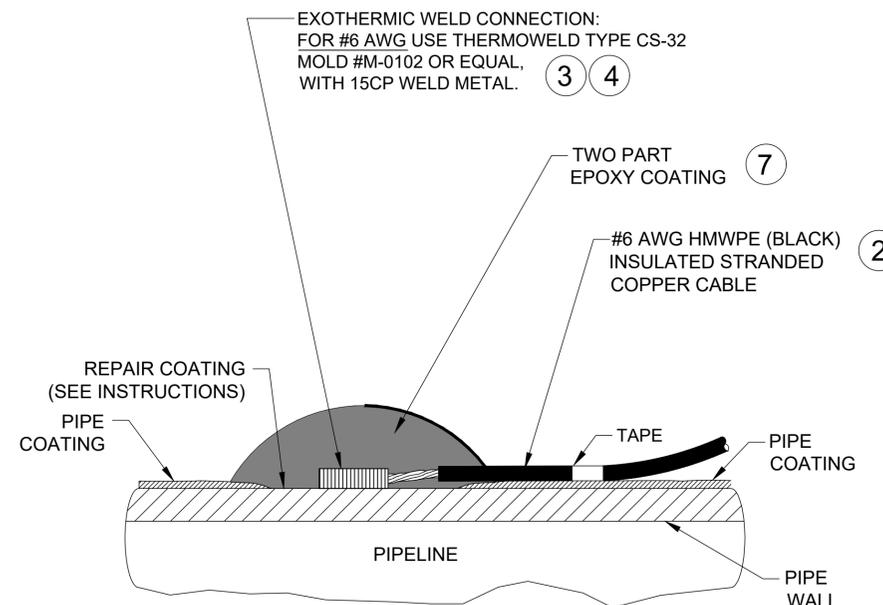
1. FIRST DETERMINE IF THE PIPELINE IS SUITABLE FOR EXOTHERMIC WELDING BY CONDUCTING THE FOLLOWING TESTS:
 - A) DETERMINE THAT THE PIPELINE SMYS (SPECIFIED MINIMUM YIELD STRENGTH) IS <80,000 PSI.
 - B) DETERMINE THAT PIPELINE WALL THICKNESS IS 1/8" (0.125") OR GREATER.
 - C) PERFORM ULTRASONIC TESTING TO PIPELINE TO DETERMINE THAT NO SURFACE OR INTERNAL DEFECTS EXIST.
2. FOR EACH CABLE TO PIPELINE CONNECTION (EXOTHERMIC WELD), REMOVE A 3"x3" MAX AREA OF PIPELINE COATING AT THE 12:00 O'CLOCK POSITION ON THE PIPELINE AND BRUSH UNTIL BRIGHT-CLEAN. ANY ADJACENT CABLE CONNECTIONS SHALL BE A MINIMUM OF 12" APART.
3. PREPARE PIPELINE SURFACE AS SPECIFIED BY COATING MANUFACTURER.
4. DETAIL 'A' SHOWS POSSIBLE METHOD OF CABLE STRAIN RELIEF FOR NEW PIPELINE INSTALLATIONS. THIS METHOD IS NOT A REQUIREMENT. OTHER MEANS OF STRAIN RELIEF MAY BE USED.
5. STRIP BACK ANY CABLE INSULATION 1"-2" AND TAPE CABLE TO PIPE. CRUCIBLE TIGHT TO PIPELINE.

6. ENSURE THAT THE PIPELINE WELD AREA AND CABLE ARE CLEAN AND DRY PRIOR TO WELDING.
7. USE SPECIFIC WELD MOLD AND WELD METAL AS INDICATED IN DRAWING MATERIAL LIST.
8. IF INDICATED, USE COPPER HEAT SLEEVE ON CABLE END TO BE WELDED.
9. USE ONLY A 15 GRAM WELDING CHARGE. DO NOT EXCEED.
10. PLACE THE METAL RETAINER DISK IN THE SPECIFIED WELD MOLD AND DUMP (DO NOT POUR) WELD METAL POWDER ONTO THE DISK. MAKE SURE THAT ALL OF THE FINE STARTING POWDER IS IN THE MOLD. IF ANY POWDER REMAINS IN THE CARTRIDGE BOTTOM, SQUEEZE OUT INTO MOLD AND BREAK UP.
11. CLOSE MOLD LID.
12. REPLACE CAP ON EMPTY WELD METAL CARTRIDGE AND PLACE BACK INTO CARTRIDGE PACK BOX UPSIDE DOWN TO KEEP THE REMAINING CARTRIDGES UPRIGHT.
13. LAY THE CABLE END ON THE PREPARED PIPE HOLDING

14. USING EYE AND HAND PROTECTION, STAND ON THE OPPOSITE SIDE OF THE CRUCIBLE FROM THE TOUCH HOLE AND IGNITE POWDER WITH SPARK FROM FLINT GUN. *CAUTION: POWDER WILL FLASH WHEN IGNITED*
15. WHEN WELD HAS SET, REMOVE WELD MOLD AND TEST CONNECTION BY RAPPING SHARPLY WITH A SLAG HAMMER. IF THERE IS ANY INDICATION THAT A COMPLETE WELD HAS NOT BEEN ACHIEVED, REMOVE THE WELD AND RE-APPLY.
16. IF WELD IS GOOD, REMOVE ANY SLAG WITH HAMMER AND CLEAN USING A WIRE BRUSH.
17. ONCE THE WELD CONNECTION AND AREA HAVE BEEN CLEANED, REPAIR COATING USING TWO-PART EPOXY COATING REPAIR KIT AS SPECIFIED IN THE DRAWING MATERIALS LIST (OR APPROVED COATING AS SPECIFIED BY BLACK HILLS ENERGY).
18. REFER TO BLACK HILLS ENERGY REPAIR SPECIFICATIONS AND PRODUCT DATA SHEET TO DETERMINE IF REPAIR IS ACCEPTABLE.
19. AFTER REPAIR COATING HAS CURED ACCORDING TO MANUFACTURER'S SPECIFICATIONS, HOLIDAY DETECTION MUST BE PERFORMED.



DETAIL 'A'
CABLE TO PIPELINE ATTACHMENT DETAIL



DETAIL 'B'
EXOTHERMIC WELD CONNECTION & CORROSION PROTECTION SEAL

PART	QUANTITY	UNIT	SIZE	ITEM DESCRIPTION	M.S. No.	CLASS	ITEM
2	TBD FT		#6 AWG	HMWPE (BLACK) INSULATED STRANDED COPPER CABLE, SOFT-DRAWN, COMMERCIALY PURE COPPER, ASTM B8, CLASS B STD. (ANODE TEST STATIONS)		N/A	
3	1 EA			EXOTHERMIC WELD MOLD, THERMOWELD P/N M-0102 OR EQUAL W/ HANDLE & FLINT IGNITOR		N/A	
4	1 BOX			EXOTHERMIC WELD METAL, THERMOWELD P/N 15CP OR EQUAL		N/A	
7	TBD TUBE(S)			SPC-2888 TWO PART EPOXY (APPLY 20 MILS THICKNESS MIN. 50 ML TUBE WILL REPAIR TWO CONNECTIONS TO PIPE)		N/A	

EXOTHERMIC WELD-CATHODIC TEST STATION DETAIL

NO SCALE

NOTES

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4. GROUND SURVEY PROVIDED BY (SURVEYOR), (MONTH), 20XX.
5. HORIZONTAL CONTROL IS BASED ON NAD83 COLORADO STATE PLANE SOUTH ZONE (0503). VERTICAL DATUM IS NAVD88 AND BASED ON AN OPUS SOLUTION UTILIZING GEOID 12B.

BILL OF MATERIALS		
SEE ABOVE		750'
		225'

REVISIONS						
NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD	
A	FOR REVIEW	9/21/23	SKS	DJ	CD	
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD	
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD	
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD	

Black Hills Energy

ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

2024 CONSTRUCTION		WO: 10083285	EL PASO COUNTY	COLORADO
DWG. TYPE	PRELIM. BID FINAL ✓	---	DRAWN	SKS
			CHK. DR.	DJ
			SCALE	AS SHOWN
			DATE	9/8/23
			DRAWING NUMBER:	0322-5992
			SHEET NO.	20 of 21

PART	QUANTITY	UNIT	SIZE	ITEM DESCRIPTION	M.S. No.	CLASS	ITEM
1	1	ROLL	3" WIDE	PANDUIT CORP., UNDERGROUND WARNING TAPE, PART #HTU3Y-E, YELLOW TAPE WITH BLACK LETTERS, READS "CAUTION ELECTRICAL LINE BURIED BELOW", 1 ROLL = 1000 FEET, GRAYBAR ELECTRICAL COMPANY, OMAHA, NE, PHONE 402-592-7676		N/A	
2	TBD	FT	#6 AWG	HMWPE (BLACK) INSULATED STRANDED COPPER CABLE, SOFT-DRAWN, COMMERCIALY PURE COPPER, ASTM B8, CLASS B STD. (ANODE TEST STATIONS		N/A	
3	1	EA		EXOTHERMIC WELD MOLD, THERMOWELD P/N M-0102 OR EQUAL W/ HANDLE & FLINT IGNITOR		N/A	
4	1	BOX		EXOTHERMIC WELD METAL, THERMOWELD P/N 15CP OR EQUAL		N/A	
5	TBD	FT	#6 AWG	HMWPE (RED) INSULATED STRANDED COPPER CABLE, SOFT-DRAWN, COMMERCIALY PURE COPPER, ASTM B8, CLASS B STD. (ANODE TEST STATIONS CONNECTIONS TO		N/A	
6	TBD	EA	6'	RHINO TRVIEW TEST STATION, YELLOW POST WITH WHITE CAP & LOCK, 72" LENGTH, 5 - 1/4" BRASS TERMINALS, TO INCLUDE (1 EA.) 0.01 OHM SHUNT & (1 EA.) JUMPER		N/A	
7	TBD	TUBE(S)		SPC-2888 TWO PART EPOXY (APPLY 20 MILS THICKNESS MIN. 50 ML TUBE WILL REPAIR TWO CONNECTIONS TO PIPE)		N/A	
8	TBD	EA	17#	MAGNESIUM ANODE, 17 LB SIZE, PREPACKAGED WITH LEAD WIRE	44.01	044	0143
9	TBD	EA		CRIMP CONNECTOR, COPPER, #6 AWG STRANDED RUN, #12 AWG TAP, BURNDY P/N YC6L12		N/A	
10	TBD	EA		RESIN SPLICE KIT, 3M SCOTCHCAST 90-B1 (FOR PROTECTION OF CRIMPED CABLE		N/A	
11	TBD	FT	#12 AWG	HMWPE (BLACK) INSULATED STRANDED COPPER CABLE, SOFT-DRAWN, COMMERCIALY PURE COPPER, ASTM B8, CLASS B STD.		N/A	
12	TBD	FT	#12 AWG	HMWPE (WHITE) INSULATED STRANDED COPPER CABLE, SOFT-DRAWN, COMMERCIALY PURE COPPER, ASTM B8, CLASS B STD.		N/A	
13	4	PER POST	#6	COMPRESSION LUG - 1/4" STUD HOLE, BURNDY PT. #YA6C OR EQUAL		N/A	

MATERIAL LIST-CATHODIC TEST STATION

NO SCALE

NOTES

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REVISONS		ELPASO COUNTY		COLORADO	
NO.	DESCRIPTION	DATE	BY	CHK.	APPRVD
A	FOR REVIEW	9/21/23	SKS	DJ	CD
B	FOR REVIEW (REVISED)	10/24/23	SKS	DJ	CD
C	ISSUED FOR BID	12/1/23	SKS	DJ	CD
D	ISSUED FOR CONSTRUCTION	12/14/23	SKS	SB	CD



Black Hills Energy

ENGINEERING DESIGN
760 ALEGRE DR.
FOUNTAIN, CO 80817

**SQUIRREL CREEK
CATHODIC PROTECTION TEST STATION
DETAILS 4**

2024 CONSTRUCTION	WO: 10083285	ELPASO COUNTY	COLORADO
DWG. TYPE PRELIM. BID FINAL ✓	DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPTC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.	DRAWN SKS	CHK. DR. DJ
DRAWING NUMBER: 0322-5993		SCALE AS SHOWN DATE 9/8/23	
		SHEET NO. 21 of 21	