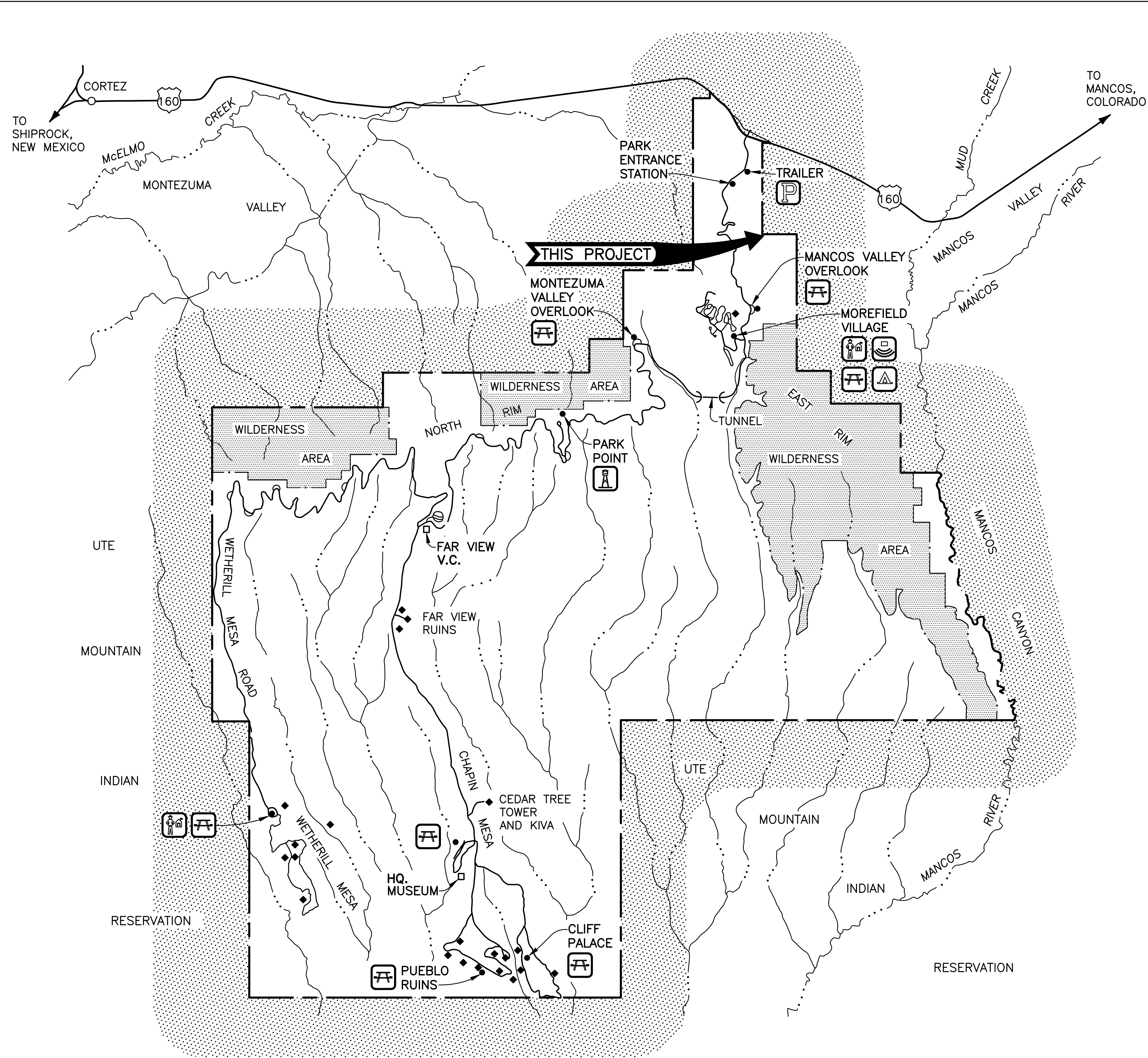


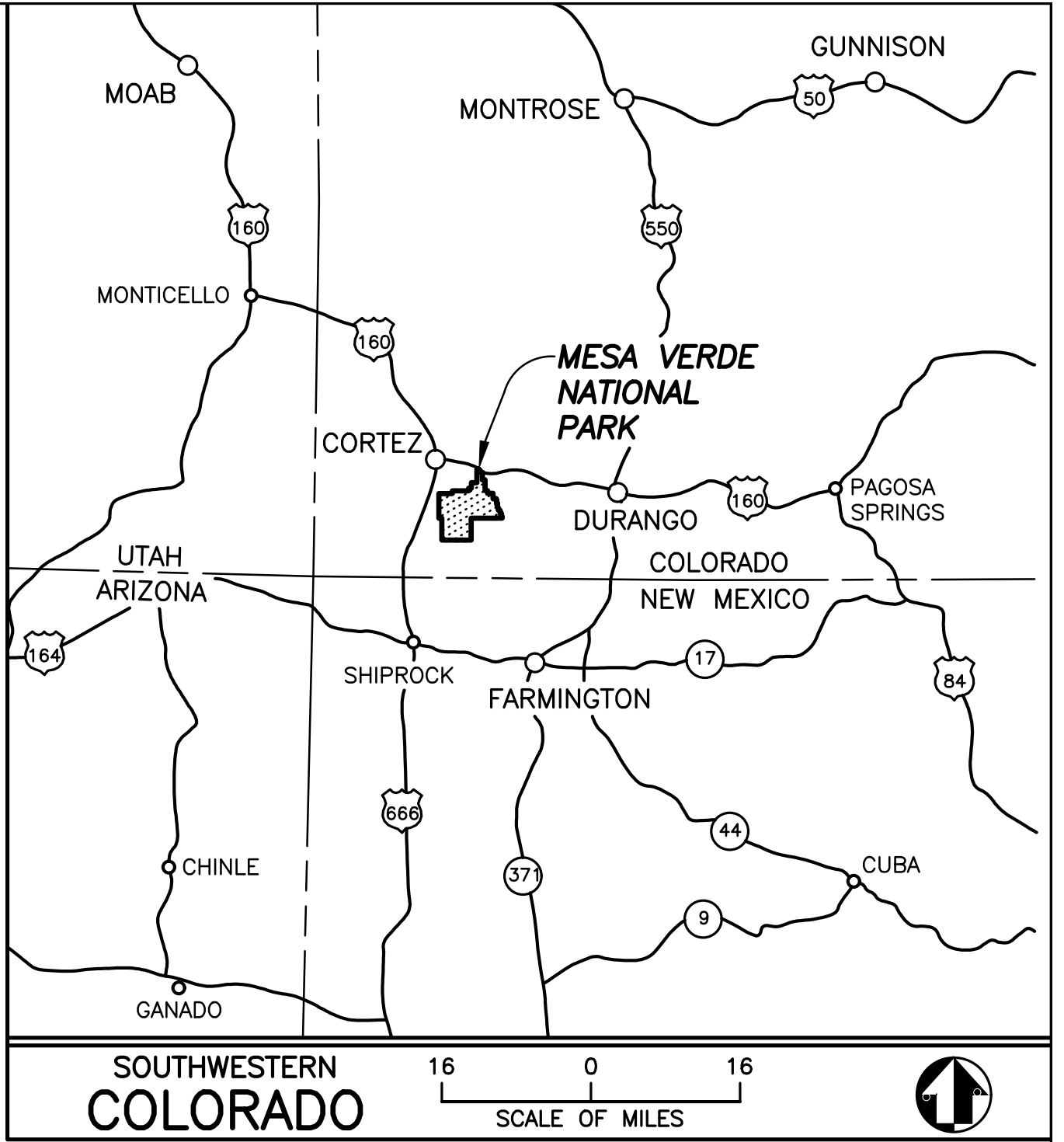


LEGEND

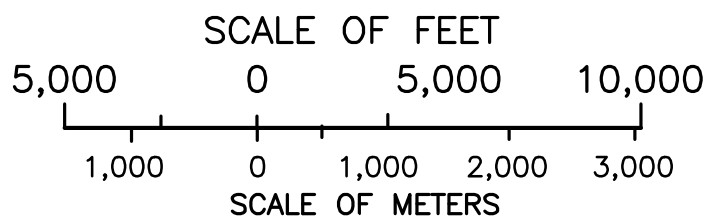
- PARK BOUNDARY
- WILDERNESS AREA
- STATE LINE
- RIVER OR CREEK
- PULLOUT
- CLIFF DWELLING
- V.C. VISITOR CENTER
- HQ. PARK HEADQUARTERS
- RANGER STATION
- PICNIC AREA
- CAMPGROUND
- AMPHITHEATER
- LOOKOUT TOWER

INDEX

SHEET	SUB SHEET	TITLE OF SHEET
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MESA VERDE NATIONAL PARK
WORLD HERITAGE SITE



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
DENVER SERVICE CENTER

TITLE OF DRAWING
COVER SHEET
LOCATION WITHIN PARK
MOREFIELD VILLAGE
NAME OF PARK
MESA VERDE NATIONAL PARK
REGION INTERMOUNTAIN COUNTY MONTEZUMA STATE COLORADO

DRAWING NO.
307
176605
PKG. NO.
SHEET
1
OF 55

CIVIL DRAWINGS LEGEND

APPROXIMATE PARK BOUNDARY

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

EXISTING ROAD - (GRAVEL/DIRT)

EXISTING EDGE OF ROAD - (ASPHALT)

EXISTING SIDEWALK - (ASPHALT)

EXISTING TRAIL

EXISTING CONCRETE

EXISTING FENCE - BARB WIRE

EXISTING FENCE - BOARD

EXISTING FENCE - CHAINLINK

EXISTING UNDERGROUND WATER (LOCATED)

EXISTING UNDERGROUND WATER (DRAFTED FROM 1991 AS-BUILTS ONLY)

EXISTING SANITARY SEWER

EXISTING TELEPHONE - COMM

EXISTING OVERHEAD POWER

EXISTING RETAINING WALL

EXISTING CULVERT

EXISTING CURB AND GUTTER

EXISTING BUILDING WALL AND ROOF OVERHANG LINE

SENSITIVE RESOURCE AREA (RARE PLANT)



MEVE PARK BOUNDARY

NEW WATER LINE ALIGNMENT

POTENTIAL CONSTRUCTION STAGING AREA



+ 8280.5 EXISTING GROUND SPOT ELEVATION

CONTROL POINT

SYMBOLS

EXISTING ELECTRIC METER

EXISTING ELECTRIC MANHOLE

EXISTING ELECTRIC PEDESTAL OR JUNCTION BOX

EXISTING ELECTRIC TRANSFORMER

EXISTING ELECTRIC MISC - OUTLET OR OTHER MISC. ELECTRIC

EXISTING TELEPHONE PEDESTAL

EXISTING STORM CURB INLET - OPEN INFLOW LID

EXISTING SANITARY SEWER MANHOLE

EXISTING SANITARY SEWER CLEANOUT ACCESS OR TANK RISER

EXISTING WATER VALVE

EXISTING WATER HYDRANT

EXISTING WATER SERVICE VALVE

EXISTING WATER METER

EXISTING WATER MANHOLE OR WATER TANK LID

EXISTING WATER HOSEBIB, FAUCET, OR SPIGOT OUTLET

EXISTING MISCELLANEOUS MANHOLE

EXISTING ADA DESIGNATED PARKING SPOT

EXISTING FLAGPOLE

EXISTING SIGN (SINGLE POST)

EXISTING BORE HOLE OR SOIL PROFILE TEST LOCATION

EXISTING MISCELLANEOUS FEATURE (SEE NOTE)

EXISTING TOWER (CENTER) OR ANTENNA

HYDRANT

PLUG

TEE

VALVE

REDUCER

ABBREVIATIONS

BC BLUE CAP

CMP CORRUGATED METAL PIPE

CO SEWER CLEANOUT

CP CONTROL POINT

DI DUCTILE IRON

DIA. DIAMETER

E EASTING

EG EXISTING GROUND

ELEV ELEVATION

ETC ET CETERA

FND FOUND

GPS GLOBAL POSITIONING SYSTEM

IE INVERT ELEVATION

MH MANHOLE

N NORTHING

NAD83 NORTH AMERICAN DATUM OF 1983

NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988

NPS NATIONAL PARK SERVICE

PVC POLYVINYL CHLORIDE

STA STATION

T.O.P TOP OF PIPE

TYP TYPICAL

HDD HORIZONTAL DIRECTIONAL DRILLING

EWA EXISTING WATER APPROXIMATE

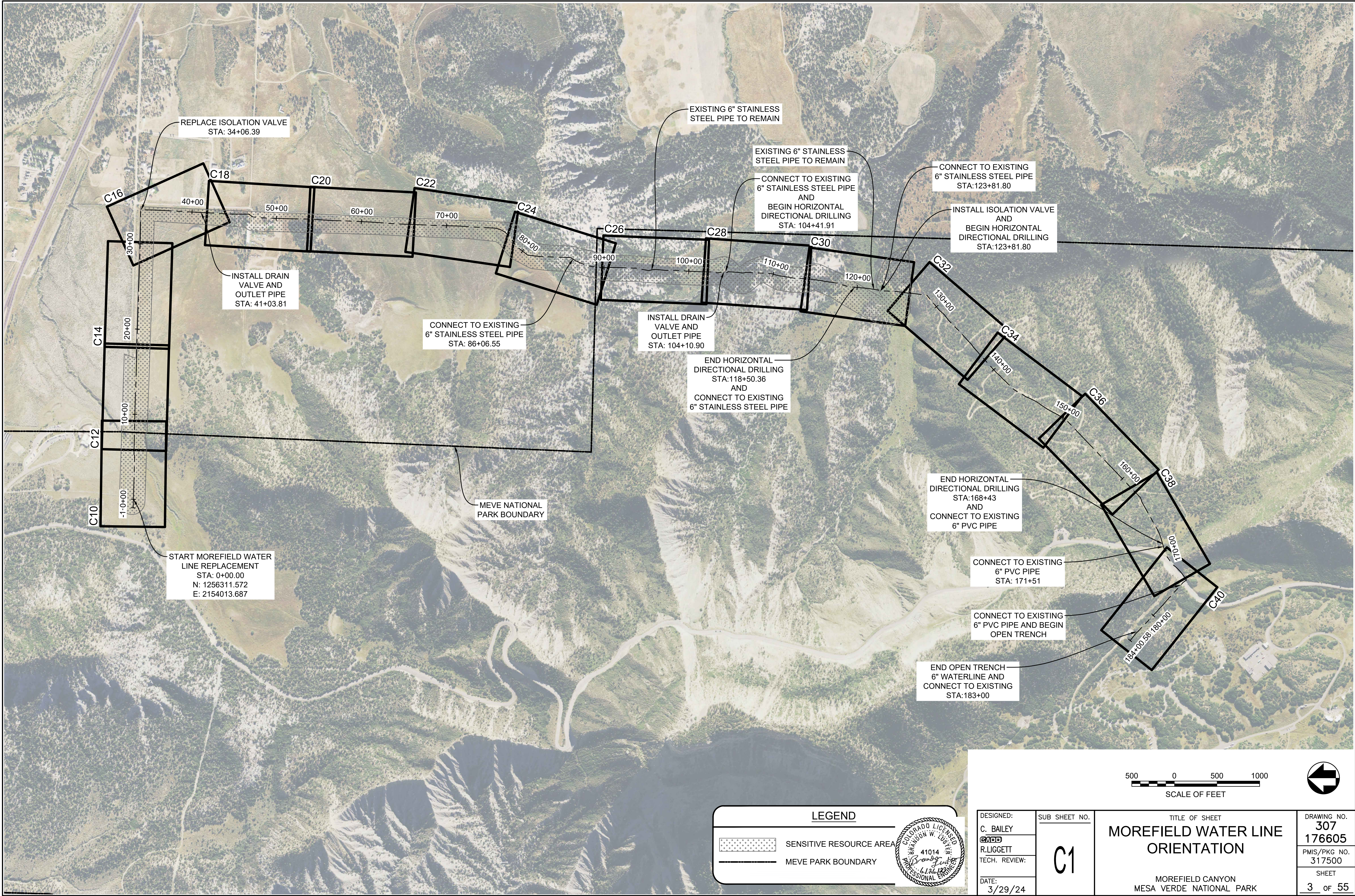
NOTES.

- PROPOSED COMPOSITE WATERLINE SHALL BE OFFSET HORIZONTALLY AT LEAST 8 FEET FROM THE EXISTING STEEL WATERLINE FOR THE MOREFIELD ALIGNMENT.
- PROPOSED WATERLINES SHALL HAVE AT LEAST 4 FEET OF COVER DEPTH.
- TRENCHES SHALL BE CUT NO WIDER THAN NECESSARY FOR WATER LINE INSTALLATION AND BACKFILL.
- EXISTING UTILITIES SHALL BE PROTECTED, INCLUDING EXISTING RAW AND FINISHED WATER LINES, MANCOS RURAL WATER LINES, PHONE LINES, COMMUNICATION LINES, CATHODIC PROTECTION LINES, AND OVERHEAD & BURIED ELECTRICAL LINES.
- EXISTING WATERLINES SHALL BE ABANDONED IN PLACE EXCEPT WHERE THEY CONFLICT WITH THE NEW WATERLINE. EXISTING WATERLINES SHALL BE REMOVED AND DISPOSED OFF SITE IN THESE LOCATIONS.
- MOREFIELD WATERLINE WILL REMAIN ACTIVE DURING CONSTRUCTION, **NOTE THIS WATERLINE HAS VERY HIGH PRESSURES IN THE LOWER ELEVATIONS UP TO 800 PSI.** PERIODIC SHUTDOWNS IN THE OFF SEASON MAY BE POSSIBLE WHEN COORDINATED IN ADVANCE WITH THE COR, SEE SPECIFICATIONS FOR FURTHER DETAILS.
- ALL SERVICE LINES CONNECTED TO THE EXISTING WATER MAIN SHALL BE RECONNECTED. PLANS IDENTIFY KNOWN SERVICE LINES, BUT IF ADDITIONAL SERVICES ARE FOUND THE CONTRACTOR SHALL RECONNECT THOSE TO THE NEW WATER MAIN.
- CONSTRUCTION FENCING SHALL BE ORANGE PLASTIC FENCE PER SPEC SECTION 01 50 00 2.1(C).
- ANY SURFACING DISTURBANCE FOR WATER LINE INSTALLATION SHALL BE REPLACE PER PLANS AND SPECIFICATIONS.

MESA VERDE MOREFIELD SITE - CONTROL TABLE							
				NAD 83 (2011)(EPOCH:2010.0000)		GEOID 18	
POINT	NAD 83 (2011)(EPOCH:2010.0000)		ELLIPSOID	COLORADO STATE PLANE		NA VD 88 ELEV.	DESCRIPTION
	LA TITUDE	LONGITUDE	HEIGHT	SOUTH ZONE (0503)			
			US FEET	NORTHING	EASTING		
				US SURVEY FEET	US SURVEY FEET	US SURVEY FEET	
CP- 121	N37°20'03.70432"	W108°23'55.27871"	6820.19	1256196.44	2157359.34	6883.14	SET 3/4"X30" REBAR WITH 2" ALUMINUM CAP
CP-122	N37°20'12.34198"	W108°24'29.97292"	6891.53	1257156.73	2154585.91	6954.53	SET 3/4"X30" REBAR WITH 2" ALUMINUM CAP
CP-125	N37°18'15.84176"	W108°24'39.06647"	7790.33	1245402.18	2153484.75	7853.48	SET 3/4"X30" REBAR WITH 2" ALUMINUM CAP
CP-126	N37°18'07.86554"	W108°24'53.25280"	7865.78	1244631.57	2152313.95	7928.96	SET 3/4"X30" REBAR WITH 2" ALUMINUM CAP
CP-127	N37°18'07.41975"	W108°24'39.67933"	7818.41	1244552.31	2153408.71	7881.57	SET 3/4"X30" REBAR WITH 2" ALUMINUM CAP



DESIGNED: C. BAILEY	SUB SHEET NO. G1	TITLE OF SHEET GENERAL LEGEND AND CONTROL POINTS	DRAWING NO. 307 176605
R.LIGGETT			
TECH. REVIEW:			
DATE: 3/29/24		MOREFIELD CANYON MESA VERDE NATIONAL PARK	PMIS/PKG NO. 317500
			SHEET 2 OF 55



LEGEND

SENSITIVE RESOURCE AREA

MEVE PARK BOUNDARY

COLORADO LICENSED
BRANDON W. LIGGETT
41014
Professional Engineer

DESIGNED: C. BAILEY	SUB SHEET NO. C1	TITLE OF SHEET MOREFIELD WATER LINE ORIENTATION	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT		MOREFIELD CANYON MESA VERDE NATIONAL PARK	PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 3 OF 55

MOREFIELD WATER LINE CL				
NUMBER	PI/START STA	LENGTH	RADIUS	LINE/CHORD DIRECTION
L-1	-1+00.00	102.56'	NA	S88°21'29"E
L-2	0+02.56	505.89'	NA	S88°22'11"E
L-3	5+08.45	22.78'	NA	N68°12'42"E
L-4	5+31.23	506.90'	NA	S88°35'59"E
L-5	10+38.14	504.45'	NA	S88°14'44"E
L-6	15+42.59	314.01'	NA	S88°22'55"E
L-7	18+56.60	430.13'	NA	S88°16'16"E
L-8	22+86.73	259.55'	NA	S88°00'21"E
L-9	25+46.28	278.04'	NA	S88°07'51"E
L-10	28+24.32	253.31'	NA	S88°19'15"E
L-11	30+77.63	167.57'	NA	S88°55'45"E
L-12	32+45.19	98.05'	NA	N89°44'30"E
L-13	33+43.25	49.09'	NA	S88°13'06"E
L-14	33+92.34	9.43'	NA	S56°38'48"E
L-15	34+01.77	138.06'	NA	S00°45'24"W
L-16	35+39.83	931.46'	NA	S02°57'33"W
L-17	44+71.29	192.73'	NA	S00°08'22"W
L-18	46+64.02	60.63'	NA	S33°14'10"W
L-19	47+24.65	87.67'	NA	S06°00'27"W
L-20	48+12.32	322.57'	NA	S02°06'16"W
L-21	51+34.88	270.40'	NA	S00°58'47"W
L-22	54+05.29	269.33'	NA	S03°49'50"W
L-23	56+74.62	123.30'	NA	S01°06'16"W
L-24	57+97.92	164.21'	NA	S02°40'20"W
L-25	59+62.13	135.31'	NA	S02°14'05"W
L-26	60+97.44	137.68'	NA	S04°03'54"W
L-27	62+35.12	174.10'	NA	S04°09'13"W
L-28	64+09.22	201.21'	NA	S02°15'13"W
L-29	66+10.43	144.97'	NA	S01°55'09"W
L-30	67+55.39	70.32'	NA	S03°40'49"W
L-31	68+25.72	316.96'	NA	S01°29'23"W
L-32	71+42.68	328.81'	NA	S03°29'56"W
L-33	74+71.49	63.37'	NA	S02°10'32"W
C-244	76+36.94	194.47'	259.04'	S21°54'52"W
L-34	77+29.33	151.76'	NA	S52°03'18"W
L-35	78+81.09	69.96'	NA	S46°42'27"W
L-36	79+51.05	128.64'	NA	S37°38'27"W
L-37	80+79.70	127.98'	NA	S05°58'23"W
L-38	82+07.68	149.41'	NA	S02°22'44"W
L-39	83+57.09	115.78'	NA	S02°11'19"W

MOREFIELD WATER LINE CL				
NUMBER	PI/START STA	LENGTH	RADIUS	LINE/CHORD DIRECTION
L-40	84+72.86	110.42'	NA	S01°37'04"W
L-41	85+83.28	67.98'	NA	S33°49'47"W
L-42	86+51.26	67.11'	NA	S24°08'10"W
L-43	87+18.37	74.26'	NA	S21°04'25"W
L-44	87+92.62	69.73'	NA	S12°05'23"W
L-45	88+62.35	63.73'	NA	S01°50'09"W
L-46	89+26.08	43.12'	NA	S15°11'59"W
L-47	89+69.20	48.15'	NA	S00°10'23"E
L-48	90+17.35	51.56'	NA	S02°27'11"E
L-49	90+68.91	77.25'	NA	S01°03'35"E
L-50	91+46.16	84.96'	NA	S02°43'53"W
L-51	92+31.12	77.76'	NA	S02°19'22"W
L-52	93+08.88	71.36'	NA	S01°01'36"W
L-53	93+80.24	73.93'	NA	S12°02'10"W
L-54	94+54.17	73.93'	NA	S10°02'36"W
L-55	95+28.10	67.07'	NA	S12°26'51"E
L-56	95+95.17	70.15'	NA	S04°44'34"W
L-57	96+65.31	72.39'	NA	S06°18'01"W
L-58	97+37.71	76.05'	NA	S01°23'43"E
L-59	98+13.75	76.96'	NA	S00°49'36"W
L-60	98+90.72	82.97'	NA	S05°18'38"W
L-61	99+73.68	72.17'	NA	S02°53'16"W
L-62	100+45.86	68.93'	NA	S02°06'45"W
L-63	101+14.78	77.05'	NA	S02°08'33"W
L-64	101+91.83	80.74'	NA	S00°20'34"W
L-65	102+72.57	60.33'	NA	S11°21'49"W
L-66	103+32.90	71.60'	NA	S09°10'48"E
L-67	104+04.50	46.85'	NA	S08°26'05"W
L-68	104+51.36	15.73'	NA	S37°51'20"E
L-117	104+67.09	21.56'	NA	S04°33'43"W
L-118	104+88.65	85.50'	NA	S03°07'25"W
L-69	105+74.15	61.17'	NA	S08°39'46"W
L-70	106+35.32	46.26'	NA	S08°50'20"E
L-71	106+81.58	4.63'	NA	S01°35'56"W
L-72	106+86.21	48.55'	NA	S01°35'56"W
C-258	107+35.83	2.15'	14.00'	S05°59'35"W
L-73	107+36.91	12.20'	NA	S10°23'13"W
L-74	107+49.11	134.47'	NA	S01°46'13"W
C-279	108+83.92	0.68'	14.00'	S03°09'53"W
L-75	108+84.26	101.10'	NA	S04°33'32"W

MOREFIELD WATER LINE CL				
NUMBER	PI/START STA	LENGTH	RADIUS	LINE/CHORD DIRECTION
C-280	109+86.89	3.06'	14.00'	S10°49'02"W
L-76	109+88.41	60.63'	NA	S17°04'31"W
L-77	110+49.05	162.11'	NA	S09°34'31"W
L-78	112+11.15	67.95'	NA	S07°34'45"W
C-260	113+72.87	187.28'	1474.28'	S03°51'40"W
C-259	113+72.87	187.28'	1474.28'	S03°51'40"W
C-264	115+47.53	162.02'	1127.83'	S08°49'54"W
L-79	116+28.40	65.89'	NA	S05°51'32"W
L-80	116+94.29	70.82'	NA	S10°29'31"W
C-265	118+40.91	151.17'	817.66'	S15°58'07"W
L-81	119+16.28	208.30'	NA	S04°59'56"W
C-281	121+25.06	0.96'	14.00'	S06°57'56"W
L-82	121+25.54	141.53'	NA	S08°55'57"W
L-83	122+67.07	37.05'	NA	S11°58'52"W
L-84	123+04.12	53.28'	NA	S01°05'29"W
C-268	124+11.52	108.09'	880.85'	S03°17'07"W
C-269	124+66.46	1.93'	14.00'	S03°42'57"W
L-85	124+67.42	131.23'	NA	S07°39'42"W
C-270	126+81.63	165.85'	2027.94'	S06°34'59"W
C-250	126+81.63	165.85'	2027.94'	S06°34'59"W
L-86	127+64.51	47.39'	NA	S01°45'37"W
C-282	128+18.20	11.85'	14.00'	S26°00'28"W
L-87	128+23.74	227.07'	NA	S50°15'19"W
L-88	130+50.81	79.65'	NA	S41°43'28"W
L-89	131+30.46	78.83'	NA	S53°27'20"W
L-90	132+09.29	196.78'	NA	S45°16'21"W
L-91	134+06.07	144.17'	NA	S48°04'25"W
L-92	135+50.24	55.77'	NA	S44°29'53"W
C-271	136+31.54	50.70'	173.40'	S55°41'21"W
L-93	136+56.71	349.48'	NA	S48°06'52"W
C-272	140+61.32	110.12'	907.10'	S43°35'46"W
L-94	141+16.31	33.48'	NA	S49°45'11"W
C-253	142+25.21	150.71'	1513.56'	S44°18'59"W
C-273	142+25.21	150.71'	1513.56'	S44°18'59"W
L-95	143+00.50	36.40'	NA	S39°59'34"W
C-274	144+01.78	129.53'	884.62'	S29°54'31"W
L-96	144+66.43	23.89'	NA	S40°15'12"W
C-275	145+72.56	164.00'	885.72'	S25°39'23"W
C-276	146+55.11	1.57'	14.00'	S34°10'59"W
C-277	147+29.11	146.31'	1444.80'	S34°30'14"W

MOREFIELD WATER LINE CL				
NUMBER	PI/START STA	LENGTH	RADIUS	LINE/CHORD DIRECTION
L-97	148+02.20	121.01'	NA	S27°59'00"W
C-283	149+23.77	1.10'	14.00'	S30°14'34"W
L-98	149+24.32	27.08'	NA	S32°30'08"W
L-99	149+51.40	77.43'	NA	S27°47'50"W
L-100	150+28.83	1278.33'	NA	S46°20'23"W
L-101	163+07.16	60.32'	NA	S70°15'53"W
L-102	163+67.48	388.09'	NA	S60°40'36"W
L-103	167+55.56	80.20'	NA	S69°11'39"W
L-119	168+35.76	216.21'	NA	S73°37'36"W
L-120	170+51.97	31.21'	NA	S53°01'19"W
L-121	170+83.18	44.47'	NA	S53°52'22"W
L-122	171+27.65	37.19'	NA	S58°29'29"W
L-123	171+64.84	28.93'	NA	S42°21'52"W
L-124	171+93.77	30.90'	NA	S39°06'50"W
L-116	172+24.67	32.50'	NA	S42°11'13"W
L-125	172+57.17	39.91'	NA	S46°08'13"W
L-126	172+97.09	35.03'	NA	S49°45'00"W
L-127	173+32.11	47.66'	NA	S53°01'39"W
L-128	173+79.77	49.82'	NA	S57°16'14"W
L-104	174+29.59	33.30'	NA	N35°02'56"W
L-105	174+62.89	13.62'	NA	N33°18'22"W
L-106	174+76.51	69.79'	NA	N48°49'14"W
L-107	175+46.30	59.32'	NA	N47°33'36"W
L-108	176+05.62	39.53'	NA	N48°05'39"W
L-109	176+45.16	45.13'	NA	N47°02'28"W
L-110	176+90.29	116.12'	NA	N48°05'09"W
L-130	178+06.41	35.24'	NA	N51°11'05"W
L-131	178+41.65	20.24'	NA	N42°28'02"W
L-129	178+61.89	27.27'	NA	N45°38'54"W
L-132	178+89.16	16.93'	NA	N53°38'25"W
L-133	179+06.09	37.23'	NA	N47°18'57"W
L-134	179+43.32	133.16'	NA	N46°13'05"W
L-135	180+76.47	26.05'	NA	N51°12'02"W
L-136	181+02.52	150.35'	NA	N45°57'01"W
L-111	182+52.87	12.11'	NA	N45°11'31"W
L-112	182+64.98	35.54'	NA	N44°01'56"W
L-113	183+00.52	19.84'	NA	N56°51'26"W
L-114	183+20.36	3.08'	NA	N42°10'04"W
L-115	183+23.43	77.15'	NA	N50°22'02"W



DESIGNED:	SUB SHEET NO. C2	TITLE OF SHEET MOREFIELD WATER LINE ALIGNMENT MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
C. BAILEY			PMIS/PKG. NO. 317500
CADD			
R.LIGGETT			SHEET
TECH. REVIEW:			4 OF 55
DATE: 3/29/24			

A

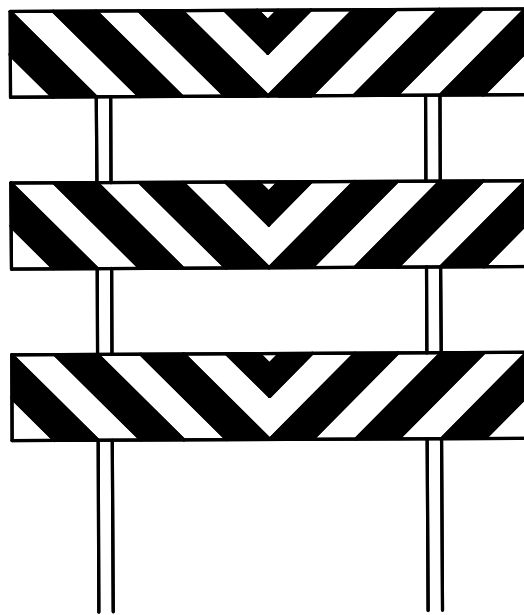


B



R11-2
48x30
(MOUNT ON TSS)

C



TYPE 3 BARRICADE

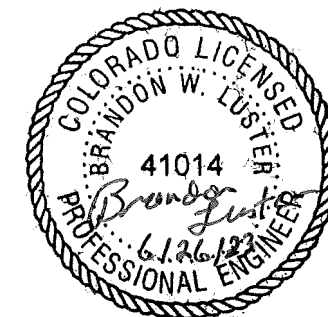
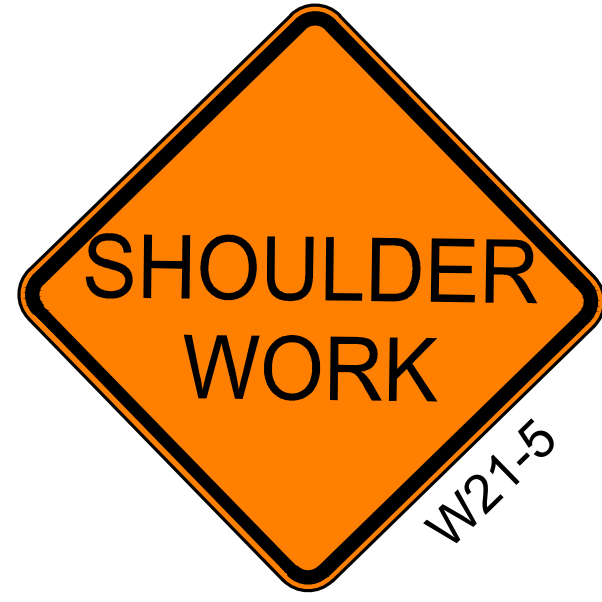
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E



F



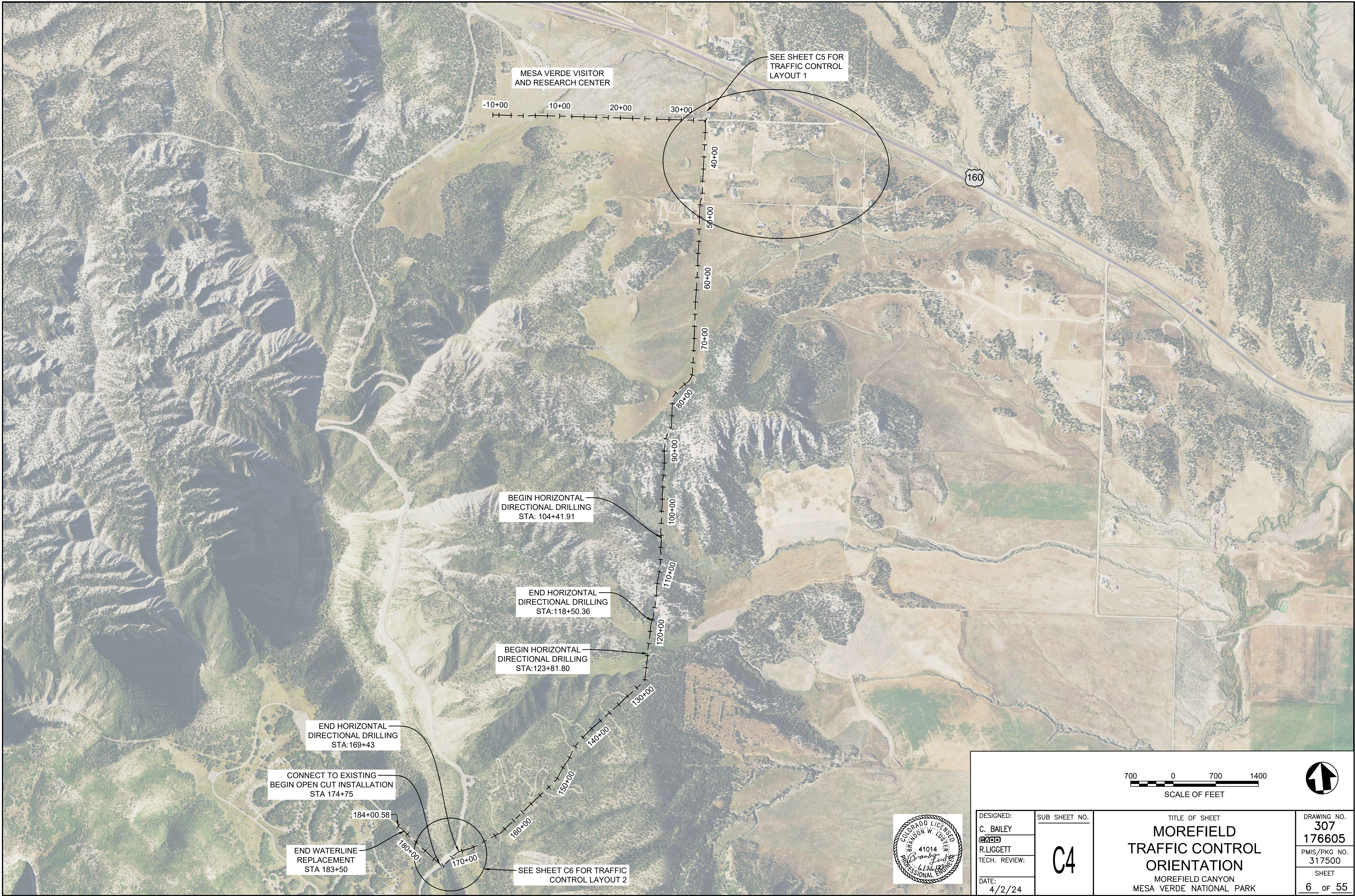
DESIGNED:
C. BAILEY
R. LIGGETT
TECH. REVIEW:
DATE:
3/29/24

SUB SHEET NO.

C3

TITLE OF SHEET
**MOREFIELD
TRAFFIC CONTROL
SIGN SUMARY**
MOREFIELD CANYON
MESA VERDE NATIONAL PARK

DRAWING NO.
**307
176605**
PMIS/PKG NO.
317500
SHEET
5 OF **55**



MESA VERDE VISITOR
AND RESEARCH CENTER

SEE SHEET C5 FOR
TRAFFIC CONTROL
LAYOUT 1

160

-10+00 10+00 20+00 30+00 40+00 50+00 60+00 70+00 80+00 90+00 100+00 110+00 120+00 130+00 140+00 150+00 160+00 170+00 180+00 184+00.58

BEGIN HORIZONTAL
DIRECTIONAL DRILLING
STA: 104+41.91

END HORIZONTAL
DIRECTIONAL DRILLING
STA: 118+50.36

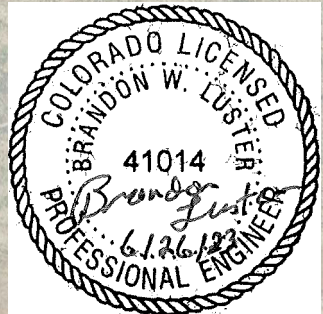
BEGIN HORIZONTAL
DIRECTIONAL DRILLING
STA: 123+81.80

END HORIZONTAL
DIRECTIONAL DRILLING
STA: 169+43

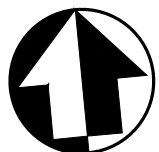
CONNECT TO EXISTING
BEGIN OPEN CUT INSTALLATION
STA 174+75

END WATERLINE
REPLACEMENT
STA 183+50

SEE SHEET C6 FOR TRAFFIC
CONTROL LAYOUT 2



700 0 700 1400
SCALE OF FEET



DESIGNED:
C. BAILEY
R. LIGGETT
TECH. REVIEW:
DATE:
4/2/24

SUB SHEET NO.
C4

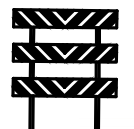
TITLE OF SHEET
**MOREFIELD
TRAFFIC CONTROL
ORIENTATION**
MOREFIELD CANYON
MESA VERDE NATIONAL PARK

DRAWING NO.
**307
176605**
PMIS/PKG NO.
317500
SHEET
6 OF **55**



LEGEND

SIGN ON POST

TYPE 3 BARRICADE



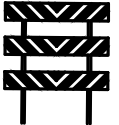
DESIGNED: C. BAILEY	SUB SHEET NO. C5	TITLE OF SHEET MOREFIELD TRAFFIC CONTROL LAYOUT 1 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 7 OF 55



LEGEND

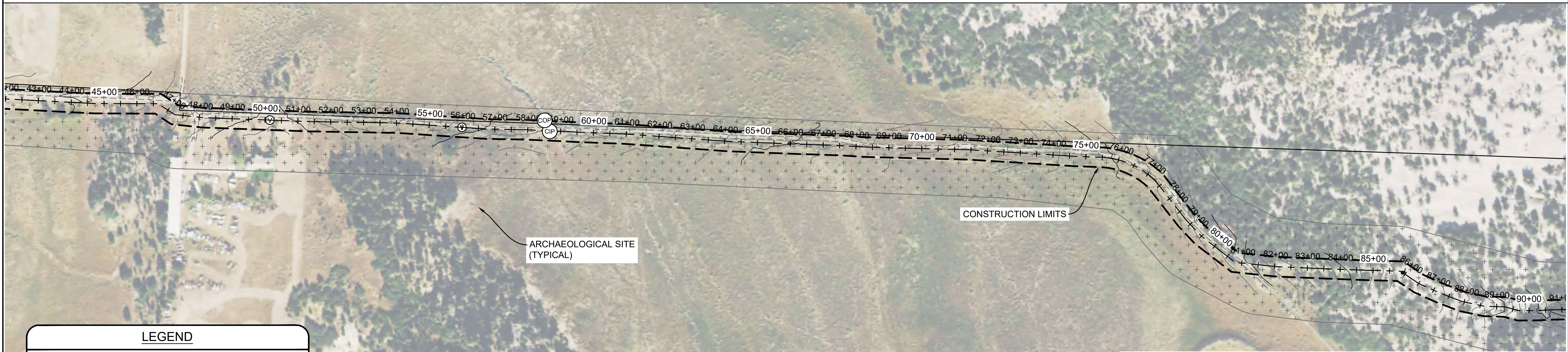


SIGN ON POST



TYPE 3 BARRICADE

DESIGNED: C. BAILEY	SUB SHEET NO. C6	TITLE OF SHEET MOREFIELD TRAFFIC CONTROL LAYOUT 2 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 8 OF 55



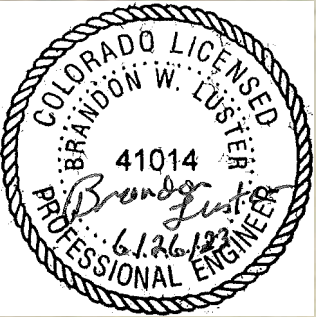
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SILT FENCE

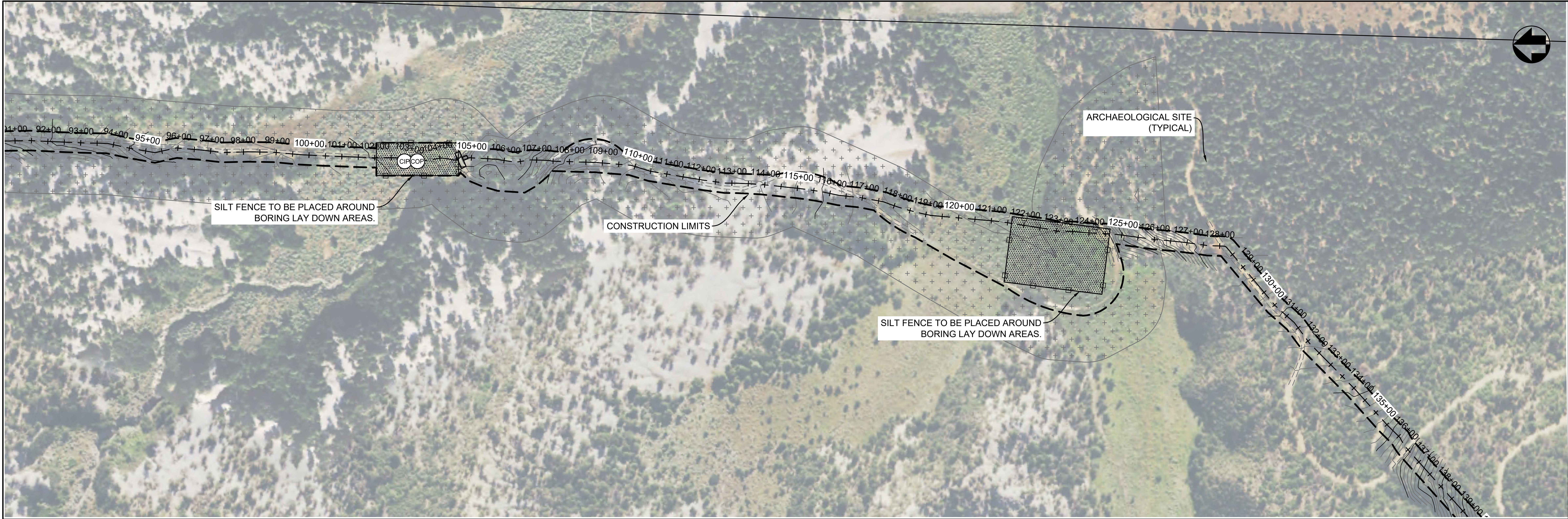
CULVERT OUTLET PROTECTION

CULVERT INLET PROTECTION

DROP INLET PROTECTION



DESIGNED: C. BAILEY	SUB SHEET NO. C7	TITLE OF SHEET MOREFIELD WATER LINE EROSION CONTROL	DRAWING NO. 307 176605	
CHAD R.LIGGETT			PMIS/PKG NO. 317500	
TECH. REVIEW:			SHEET	
DATE: 4/2/24			MOREFIELD CANYON MESA VERDE NATIONAL PARK	9 OF 55



LEGEND

—□—

SILT FENCE

COP

CULVERT OUTLET PROTECTION

CIP

CULVERT INLET PROTECTION

DIP

DROP INLET PROTECTION

MANCOS VALLEY OVERLOOK

DESIGNED:
C. BAILEY

CH
R. LIGGETT

TECH. REVIEW:

DATE:
4/2/24

SUB SHEET NO.

C8

TITLE OF SHEET
MOREFIELD WATER LINE
EROSION CONTROL

MOREFIELD CANYON
MESA VERDE NATIONAL PARK

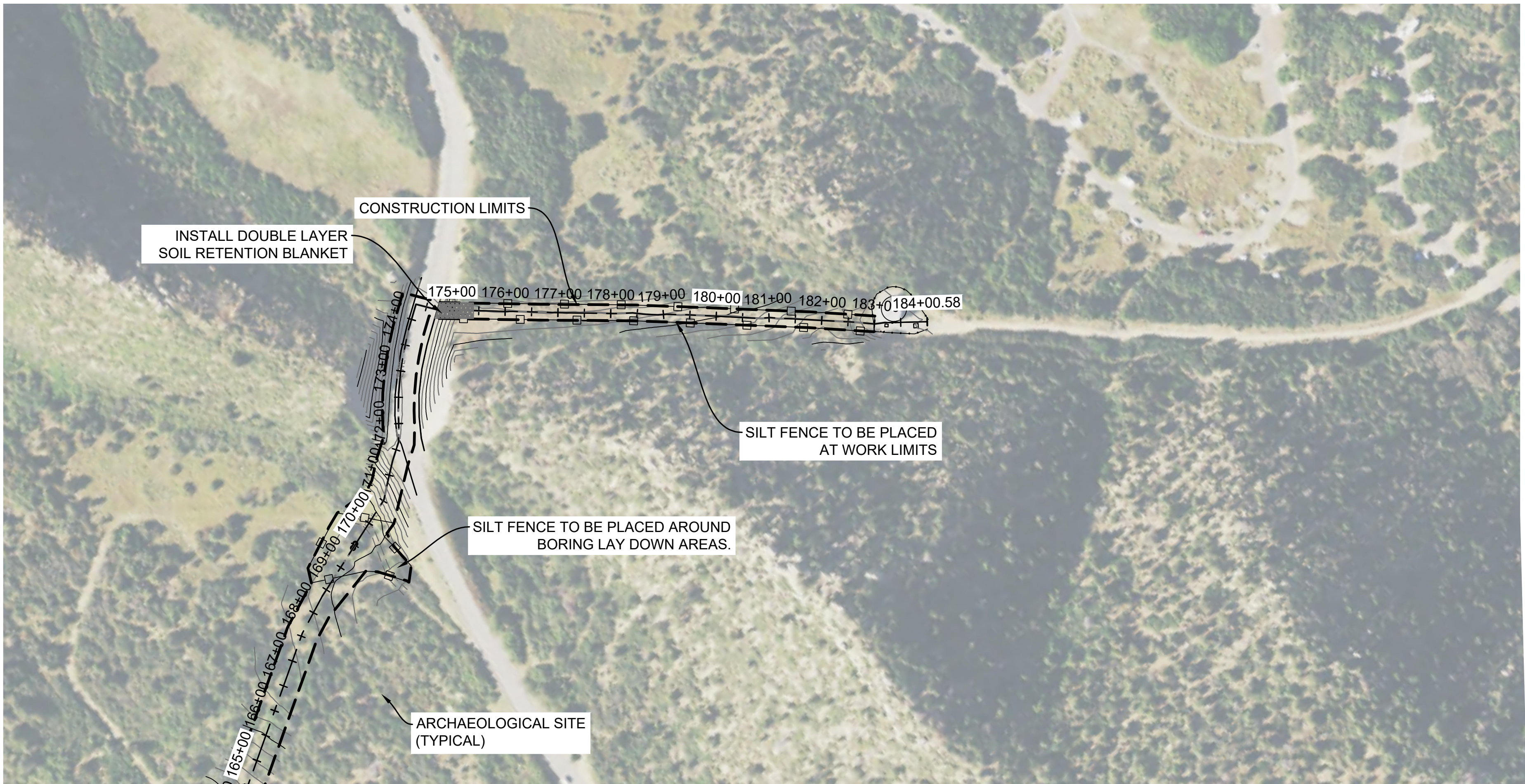
DRAWING NO.
307
176605

PMIS/PKG NO.
317500

SHEET
10 OF 55

150 0 150 300
SCALE OF FEET

COLORADO LICENSED
41014
R. LIGGETT
PROFESSIONAL ENGINEER



SWPPP NOTES:

- ALL CONTRACTORS/SUBCONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT MINIMIZES EROSION AND PREVENTS SEDIMENTS FROM LEAVING THE LIMITS OF CONSTRUCTION. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT, IMPLEMENTATION AND COMPLIANCE WITH THE REQUIREMENTS OF THE PERMIT OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THE SWPPP. SEE DIVISION 01 SPECIFICATIONS FOR VEHICLE CLEANING REQUIREMENTS.
- CLEAN VEHICLES AND CONSTRUCTION EQUIPMENT PRIOR TO ENTRY INTO THE PARK TO MINIMIZE THE POTENTIAL FOR INTRODUCTION AND/OR PROLIFERATION OF INVASIVE NON-NATIVE WEEDS THROUGH PROJECT ACTIONS. THE CONTRACTOR IS REQUIRED TO WASH EQUIPMENT, WITH EMPHASIS ON UNDERCARRIAGES, WITH A HIGH-PRESSURE SPRAY PRIOR TO TRANSPORTING SUCH EQUIPMENT TO MESA VERDE NATIONAL PARK.
- ALL VEHICLES AND CONSTRUCTION EQUIPMENT ENTERING MESA VERDE NATIONAL PARK SHALL BE INSPECTED AND APPROVED BY THE CONTRACTING OFFICER REPRESENTATIVE PRIOR TO ENTERING THE PARK.
- EQUIPMENT NOT DEEMED CLEAN BY THE CONTRACTING OFFICER WILL NOT BE ALLOWED TO ENTER THE PARK. THE CONTRACTOR REMAINS LIABLE FOR ADDITIONAL TRANSPORTATION FEES INCURRED WHEN EQUIPMENT FAILS INSPECTION.
- USE APPROVED NATIVE SEED AND/OR PLANTS AND REVEGETATE AREAS DISTURBED BY CONSTRUCTION.
- PRIOR TO BEGINNING GRADING, EXCAVATION, OR CLEARING AND GRUBBING OPERATIONS, WATTLES SHALL BE PLACED ALONG THE PERIMETER OF THE AREAS TO BE DISTURBED AT LOCATIONS WHERE RUNOFF CAN MOVE OFFSITE. VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION SHALL BE PRESERVED. AS AREAS REACH THEIR FINAL GRADE, ADDITIONAL WATTLES SHALL BE INSTALLED AS SPECIFIED IN THE PLANS AND/OR AS REQUIRED BY THE CONTRACTING OFFICER REPRESENTATIVE. THIS WILL INCLUDE USING WATTLES AS DITCH CHECKS AND TO PROTECT EXISTING CULVERTS. THIS WORK SHALL BE DONE IN ACCORDANCE WITH DIVISION 01 OF THE SPECIFICATIONS. AS THE WORK PROGRESSES, ADDITIONAL EROSION CONTROL ITEMS SHALL BE INSTALLED BY THE EROSION CONTROL CONTRACTOR AS DETERMINED BY THE CONTRACTING OFFICER REPRESENTATIVE AFTER FIELD INVESTIGATION. THE CONSTRUCTION WILL BE COMPLETED WITH ESTABLISHMENT OF PERMANENT PERENNIAL VEGETATION OF ALL DISTURBED AREAS BY THE EROSION CONTROL CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ON SITE DUST CONTROL. DUST MAY BE CONTROLLED BY WETTING DENUDED SOIL OR BY USING WIND BARRIERS.
- CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND CONSTRUCTION MATERIAL WASTES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL REGULATIONS. IN THE EVENT OF A CONFLICT WITH OTHER GOVERNMENTAL LAWS, RULES AND REGULATIONS, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES IN PROPER WORKING ORDER, INCLUDING CLEANING, REPAIRING, OR REPLACING THEM THROUGHOUT THE CONTRACT PERIOD. CLEANING OF SILT CONTROL DEVICES SHALL BEGIN WHEN THE FEATURES HAVE LOST 50% OF THEIR CAPACITY.
- PERMITTEES MUST INSPECT DESIGNATED AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF 0.5 INCHES OR GREATER. COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT ALSO RECOMMENDS THAT PERMITTEES PERFORM A "WALK THROUGH" INSPECTION OF THE CONSTRUCTION SITE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF EVENTS SUCH AS INTERMITTENT SHOWERS OVER A PERIOD OF DAYS) THAT COULD POTENTIALLY YIELD A SIGNIFICANT AMOUNT OF RUNOFF. INSPECTIONS MUST BE PERFORMED BY QUALIFIED PERSONNEL WITH EITHER THE OPERATOR'S OWN PERSONNEL OR CONSULTANTS HIRED TO PERFORM THE INSPECTIONS. THE INSPECTORS MUST BE KNOWLEDGEABLE AND POSSESS THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND ASSESS THE EFFECTIVENESS OF CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND ASSESS THE EFFECTIVENESS OF SEDIMENTATION AND EROSION CONTROL MEASURE CHOSEN TO CONTROL THE QUALITY OF THE SITES STORM WATER DISCHARGES.
- THE CONTRACTOR SHALL PROTECT SPOILS PILES, IF LONGER THAN 7 DAYS.
- INSTALL DOUBLE LAYER SOIL RETENTION BLANKET ON DISTURBED AREAS STEEPER THAN 3:1. ONE KNOWN LOCATION IS SHOWN IN THE PLANS BUT OTHERS MAY BE FOUND DURING CONSTRUCTION THAT WILL REQUIRE THIS INSTALLATION.

SEEDING NOTES:

- AFTER FINAL GRADING AND TOPSOIL PLACEMENT, SEED AND MULCH ALL AREAS WITHIN THE LIMITS OF CONSTRUCTION NOT INDICATED FOR OTHER SURFACING.
- ALL SEEDING WORK SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION SECTION 32 92 00.

LEGEND

COP

CIP

DIP

SILT FENCE

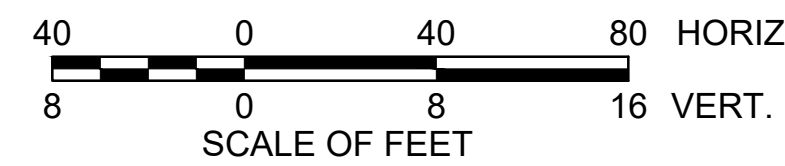
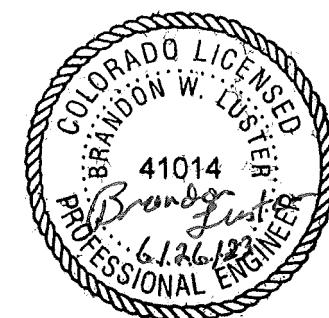
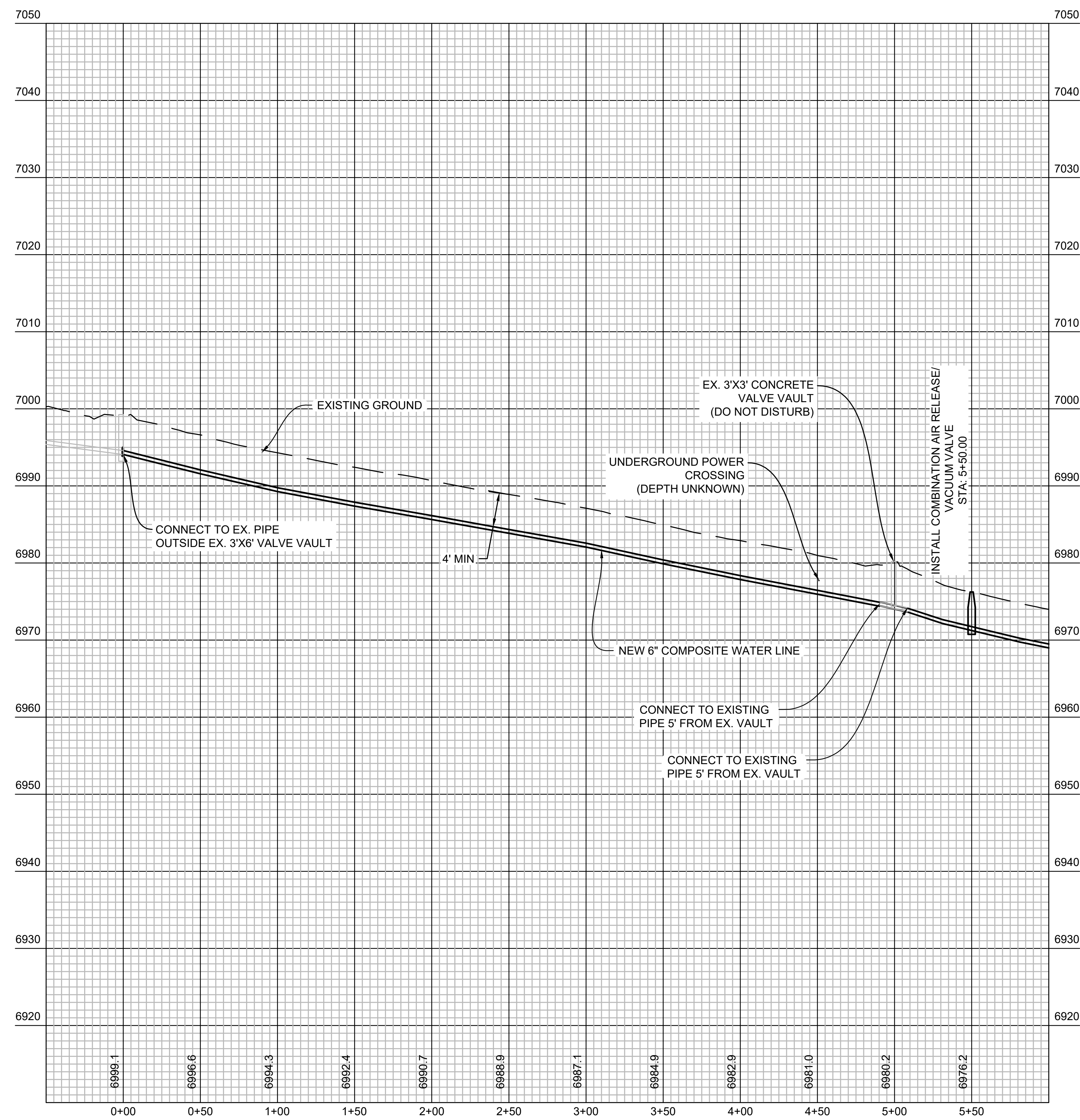
CULVERT OUTLET PROTECTION

CULVERT INLET PROTECTION

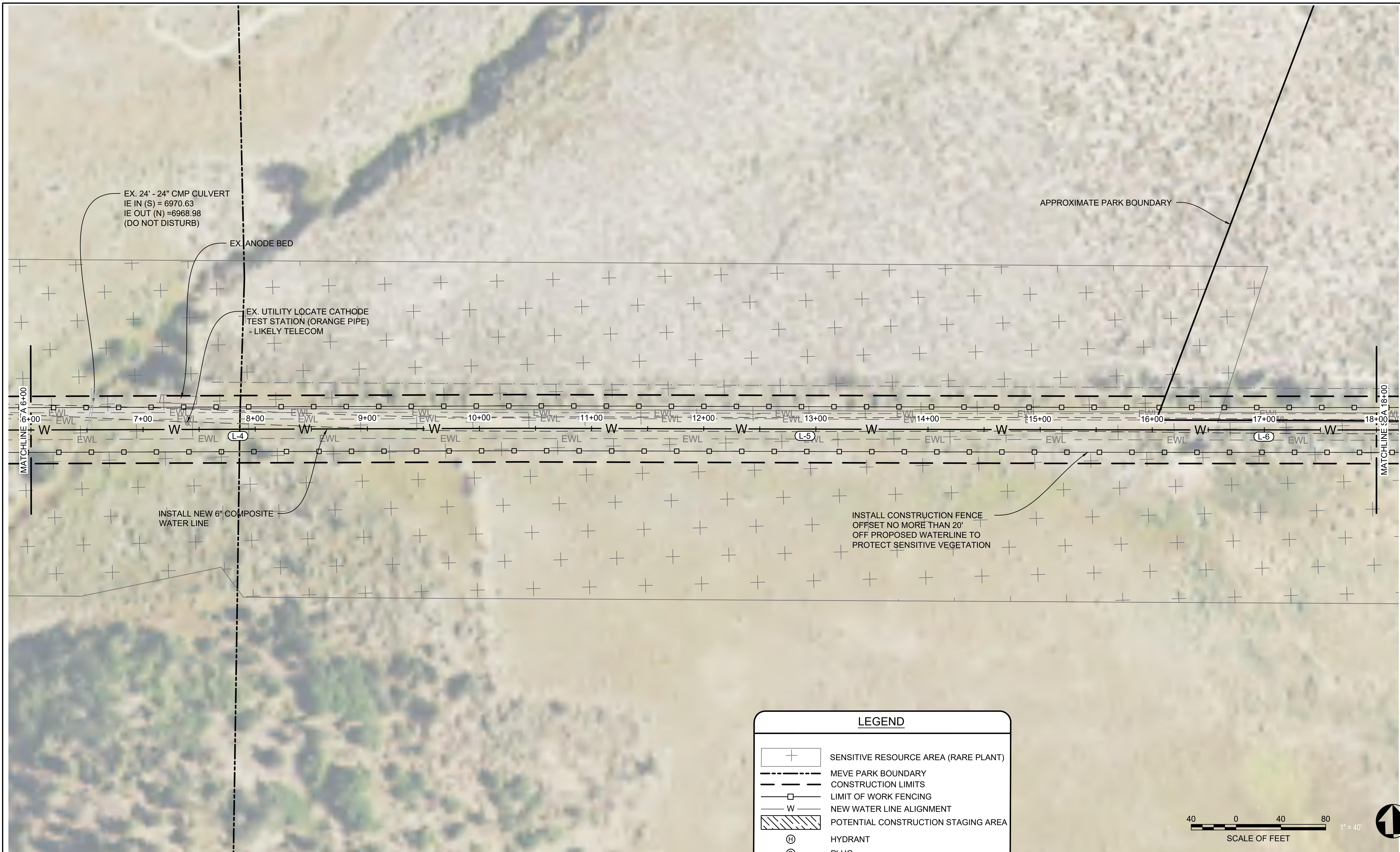
DROP INLET PROTECTION



DESIGNED: C. BAILEY CADD	SUB SHEET NO. C9	TITLE OF SHEET MOREFIELD WATER LINE EROSION CONTROL MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R.LIGGETT			PMIS/PKG NO. 317500
DATE: 4/2/24			SHEET 11 of 55



DESIGNED: C. BAILEY	SUB SHEET NO. C11	TITLE OF SHEET WATER LINE PROFILE STA 0+00 TO STA 6+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 13 OF 55



LEGEND

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W

SENSITIVE RESOURCE AREA (RARE PLANT)

MOVE PARK BOUNDARY

CONSTRUCTION LIMITS

LIMIT OF WORK FENCING

NEW WATER LINE ALIGNMENT

POTENTIAL CONSTRUCTION STAGING AREA

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HYDRANT

PLUG

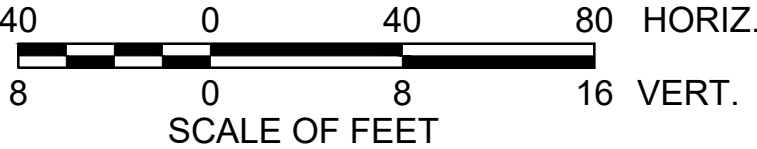
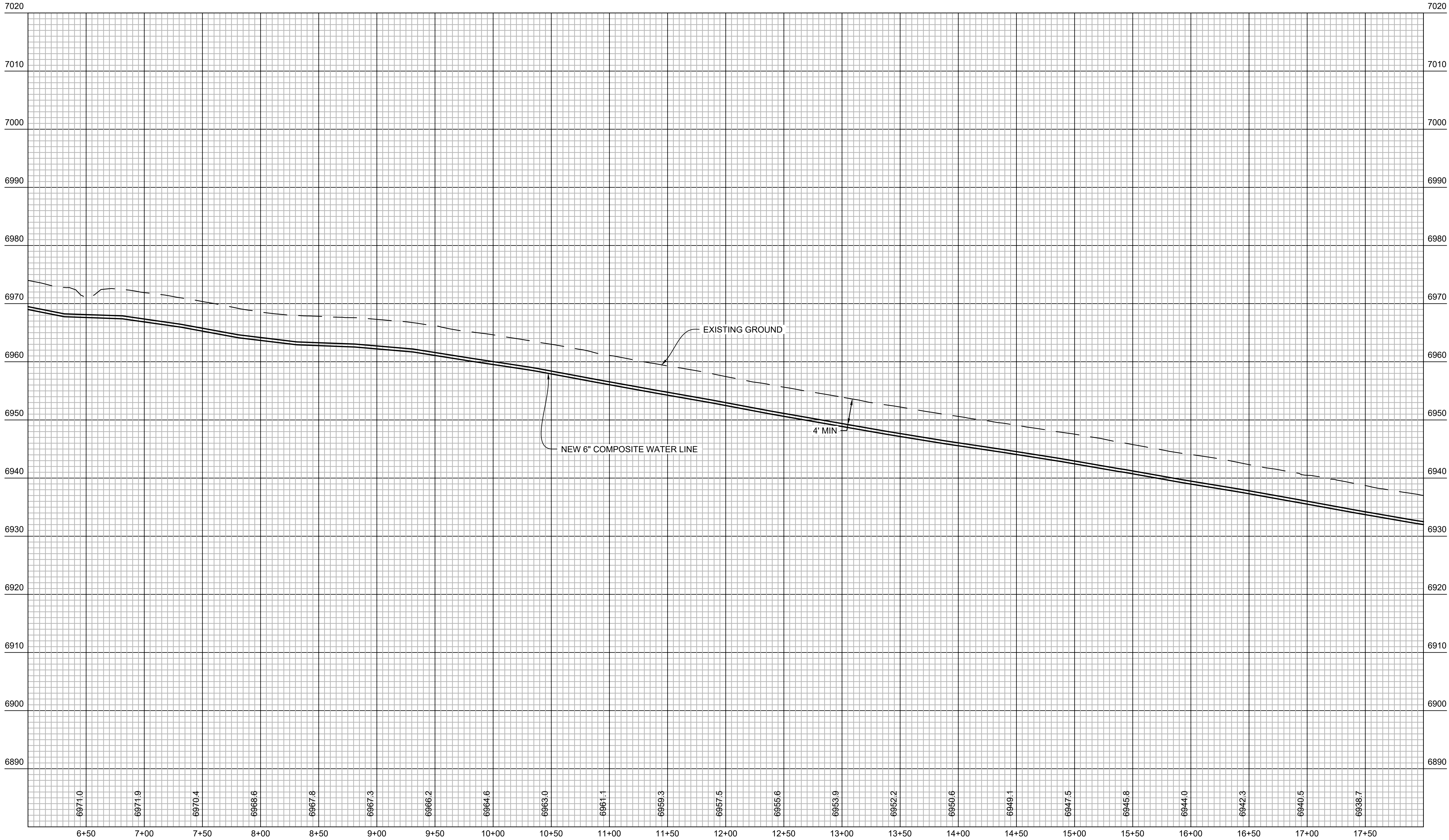
TEE

VALVE

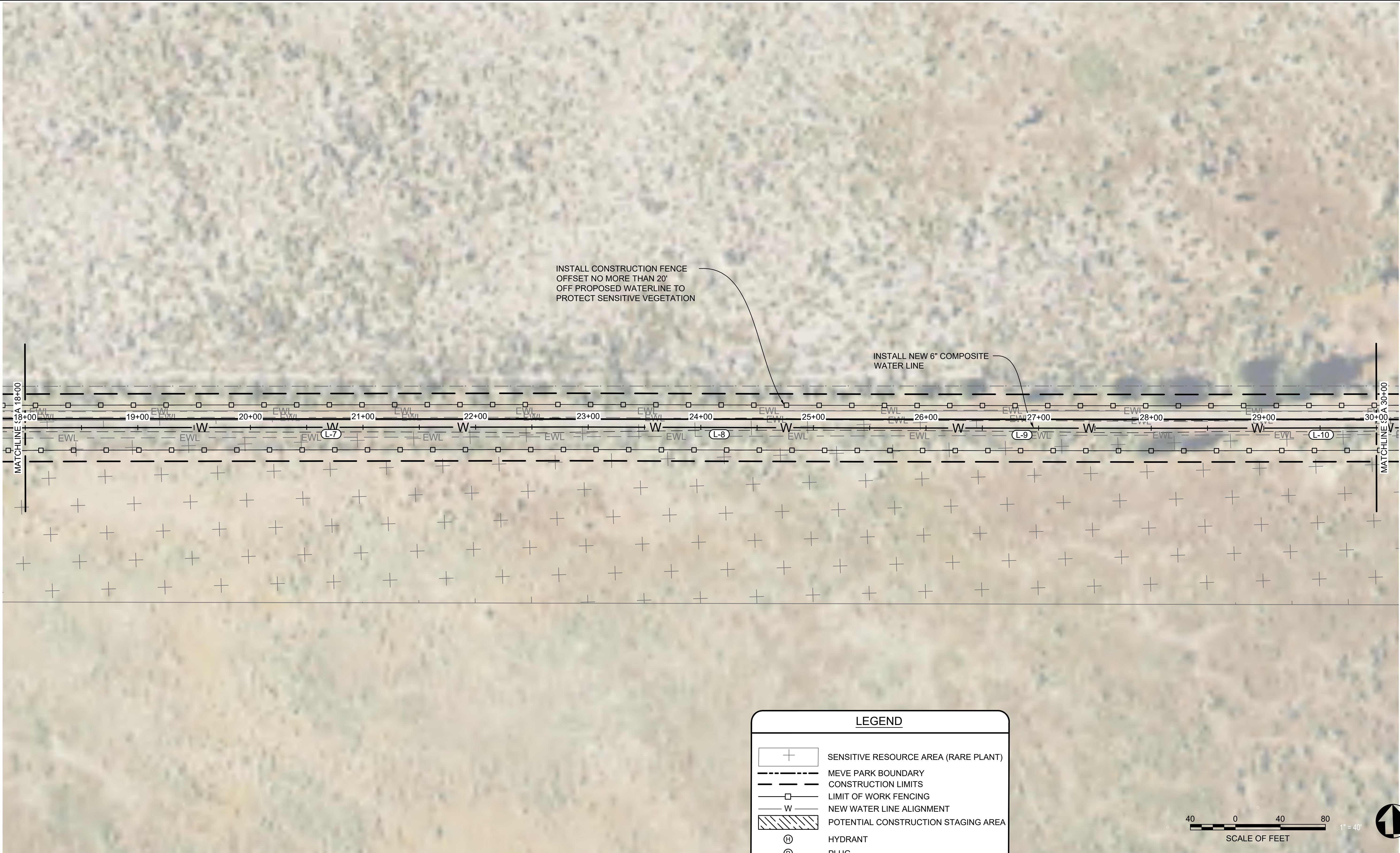
REDUCER

CONTROL POINT

DESIGNED: C. BAILEY	SUB SHEET NO. C12	TITLE OF SHEET WATER LINE PLAN STA 6+00 TO STA 18+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 14 OF 55
TECH. REVIEW: R. LIGGETT			
DATE: 3/29/24			



DESIGNED: C. BAILEY CADD R. LIGGETT TECH. REVIEW:	SUB SHEET NO. C13	TITLE OF SHEET WATER LINE PROFILE STA 6+00 TO STA18+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMS/PKG NO. 317500 SHEET 15 OF 55
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LEGEND

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W

SENSITIVE RESOURCE AREA (RARE PLANT)

MEVE PARK BOUNDARY

CONSTRUCTION LIMITS

LIMIT OF WORK FENCING

NEW WATER LINE ALIGNMENT

POTENTIAL CONSTRUCTION STAGING AREA

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HYDRANT

PLUG

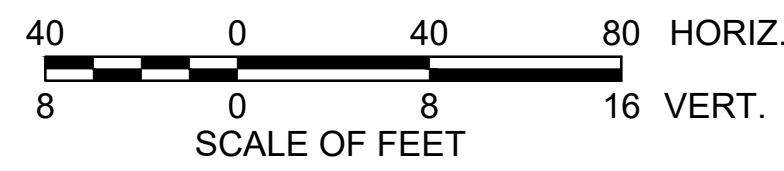
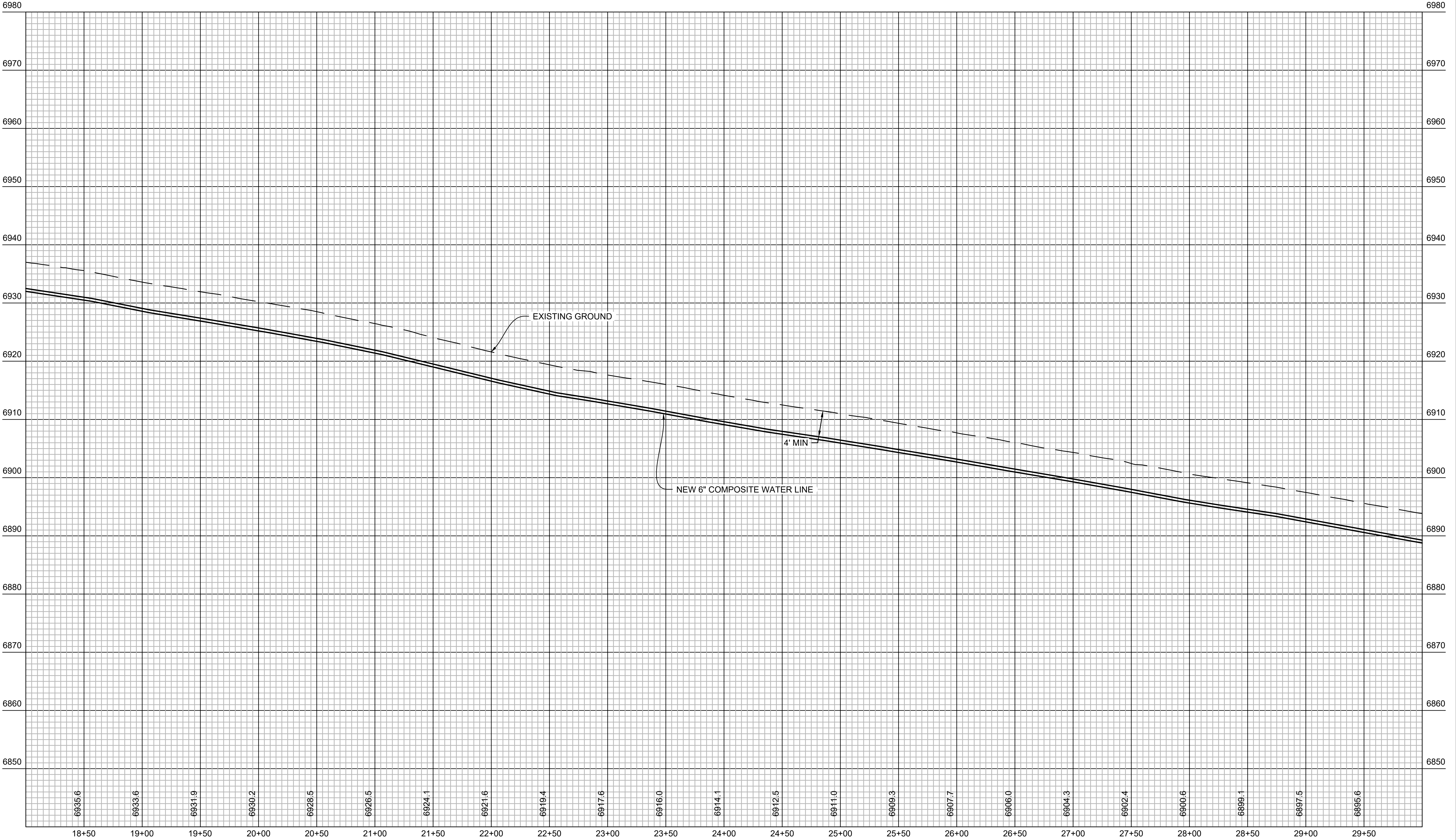
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VALVE

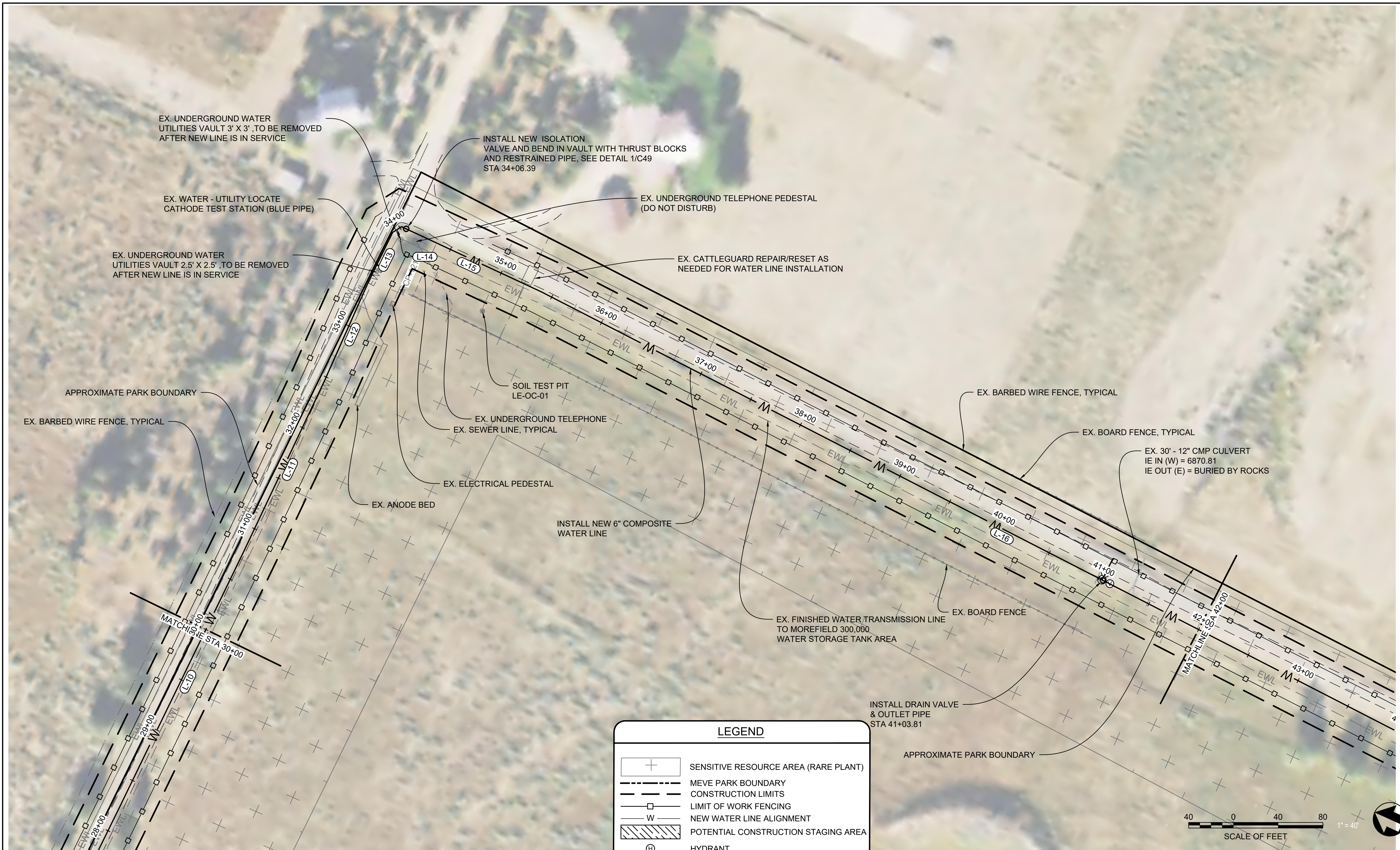
REDUCER

CONTROL POINT

DESIGNED: C. BAILEY	SUB SHEET NO. C14	TITLE OF SHEET WATER LINE PLAN STA 18+00 TO STA 30+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 16 OF 55



DESIGNED: C. BAILEY CADD R. LIGGETT TECH. REVIEW:	SUB SHEET NO. C15	TITLE OF SHEET WATER LINE PROFILE STA 18+00 TO STA 30+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 17 OF 55
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LEGEND

SENSITIVE RESOURCE AREA (RARE PLANT)

MEVE PARK BOUNDARY

CONSTRUCTION LIMITS

LIMIT OF WORK FENCING

NEW WATER LINE ALIGNMENT

POTENTIAL CONSTRUCTION STAGING AREA

HYDRANT

PLUG

TEE

VALVE

REDUCER

CONTROL POINT

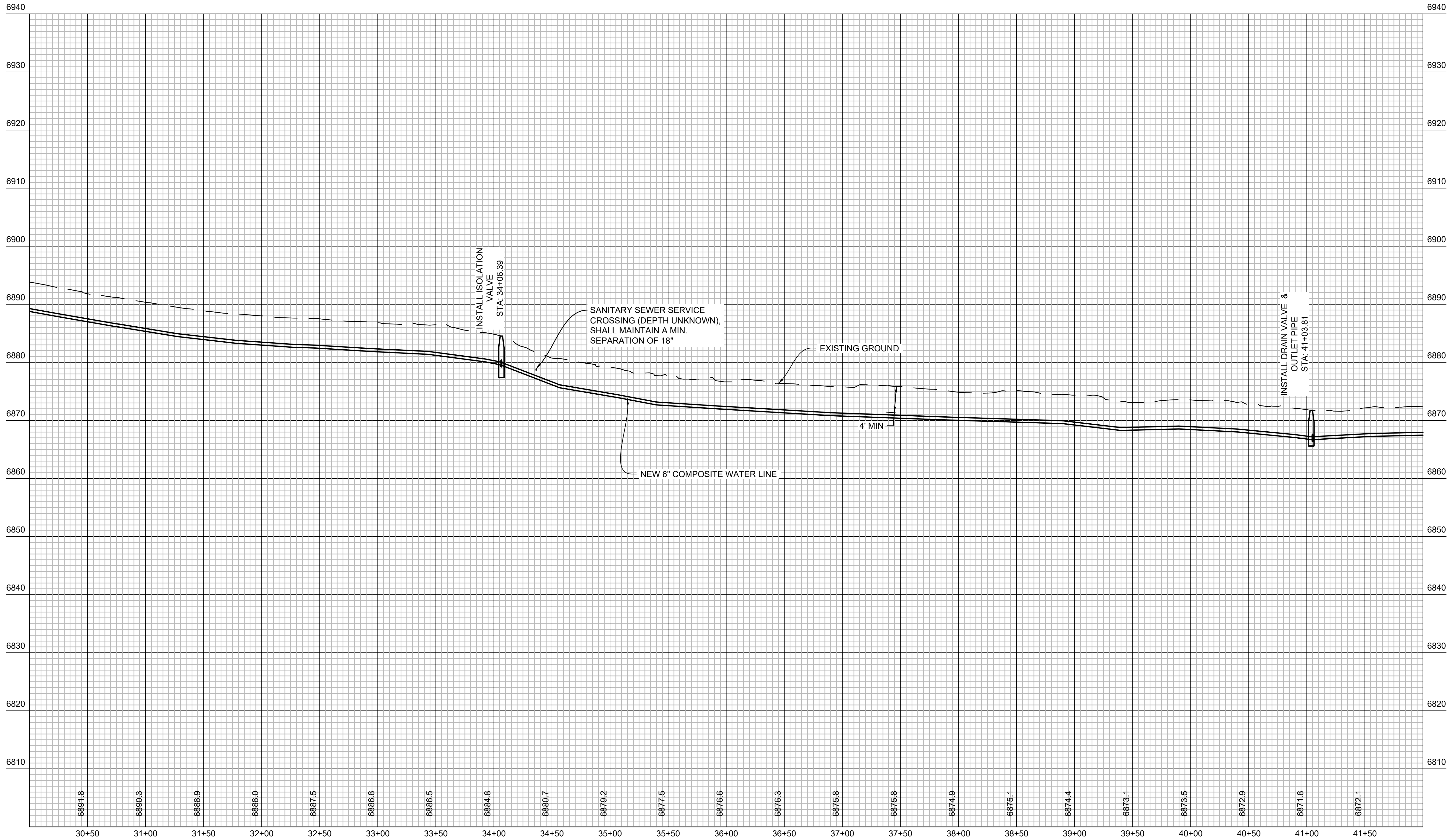


DESIGNED:	C. BAILEY
TECH. REVIEW:	R. LIGGETT
DATE:	3/29/24

SUB SHEET NO.
C16

TITLE OF SHEET
WATER LINE PLAN
STA 30+00 TO STA 42+00
MOREFIELD CANYON
MESA VERDE NATIONAL PARK

DRAWING NO.
307
176605
PMIS/PKG NO.
317500
SHEET
18 OF 55



6891.8

6890.3

6888.9

6888.0

6887.5

6886.8

6886.5

6884.8

6880.7

6879.2

6877.5

6876.6

6876.3

6875.8

6875.8

6874.9

6875.1

6874.4

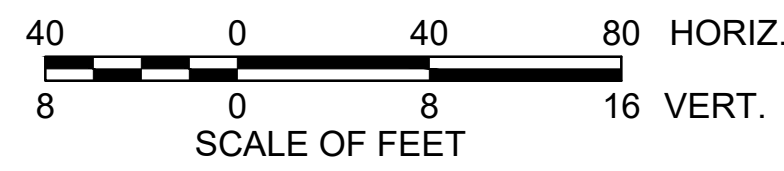
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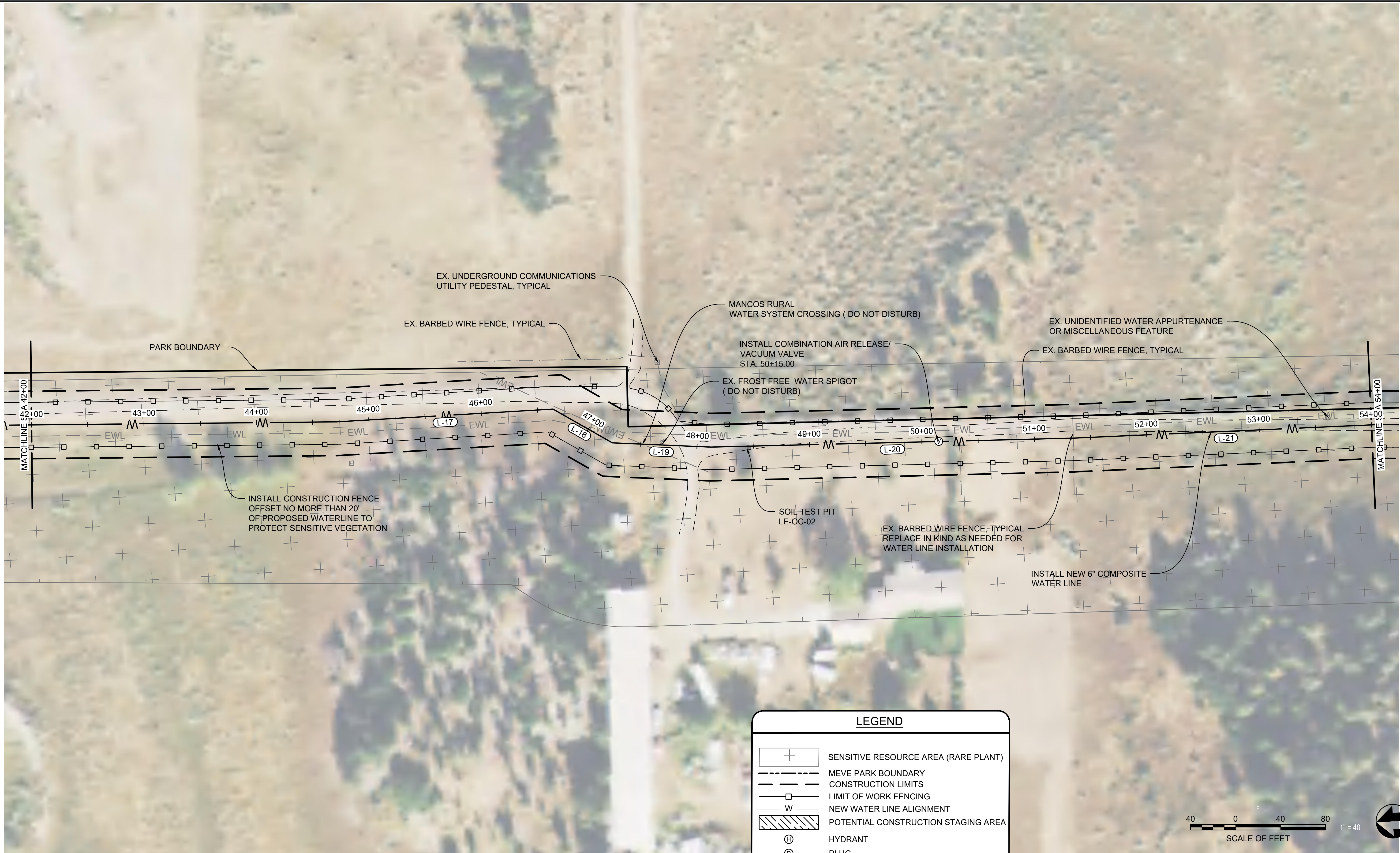
6872.9

6871.8

6872.1



DESIGNED: C. BAILEY	SUB SHEET NO. C17	TITLE OF SHEET WATER LINE PROFILE STA 30+00 TO STA 42+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 19 OF 55

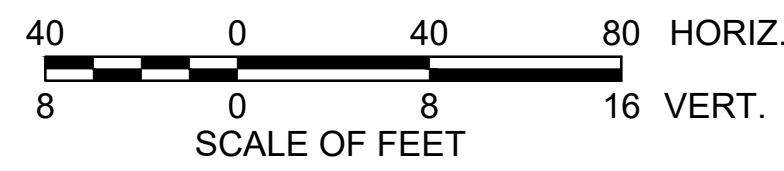
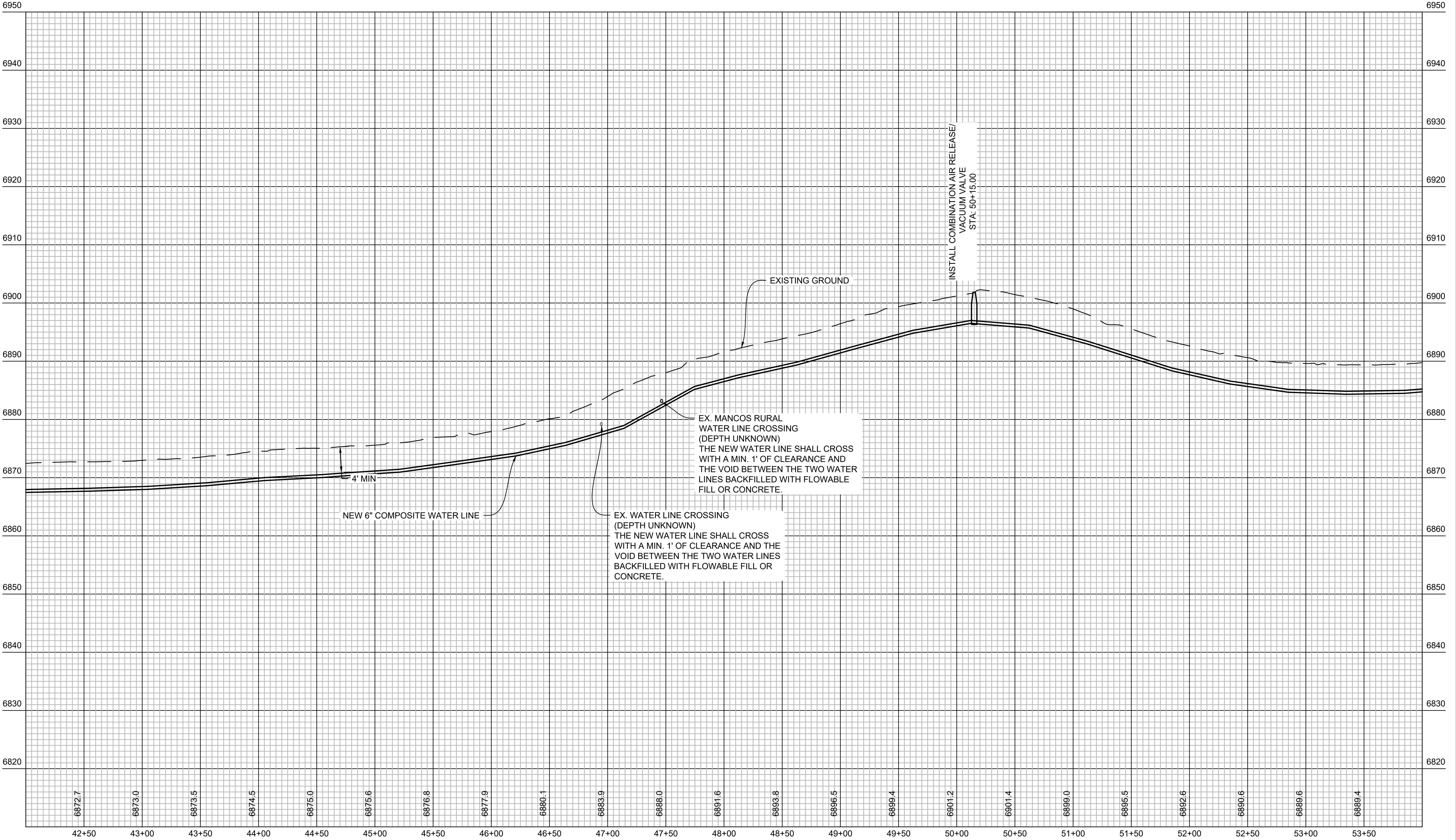


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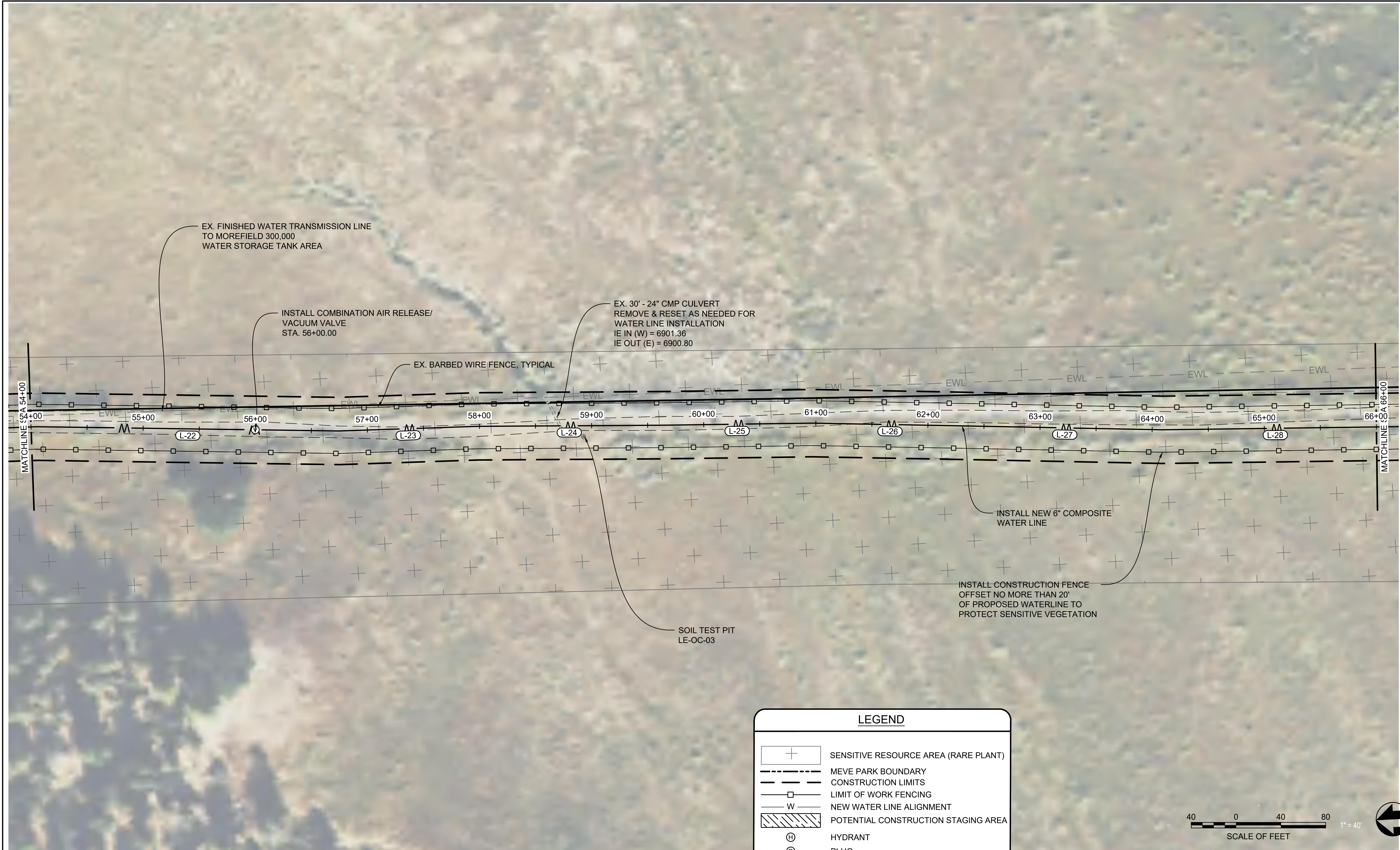
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	MOVE PARK BOUNDARY
	CONSTRUCTION LIMITS
	LIMIT OF WORK FENCING
	NEW WATER LINE ALIGNMENT
	POTENTIAL CONSTRUCTION STAGING AREA
	HYDRANT
	PLUG
	TEE
	VALVE
	REDUCER
	CONTROL POINT



DESIGNED: C. BAILEY	SUB SHEET NO. C18	TITLE OF SHEET WATER LINE PLAN STA 42+00 TO STA 54+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 20 OF 55



DESIGNED: C. BAILEY CADD R. LIGGETT TECH. REVIEW:	SUB SHEET NO. C19	TITLE OF SHEET WATER LINE PROFILE STA 42+00 TO STA 54+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 21 OF 55
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LEGEND

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SENSITIVE RESOURCE AREA (RARE PLANT)

MEVE PARK BOUNDARY

CONSTRUCTION LIMITS

LIMIT OF WORK FENCING

NEW WATER LINE ALIGNMENT

POTENTIAL CONSTRUCTION STAGING AREA

HYDRANT

PLUG

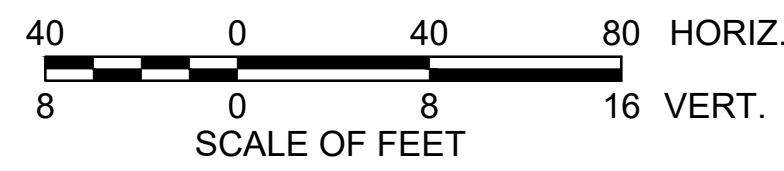
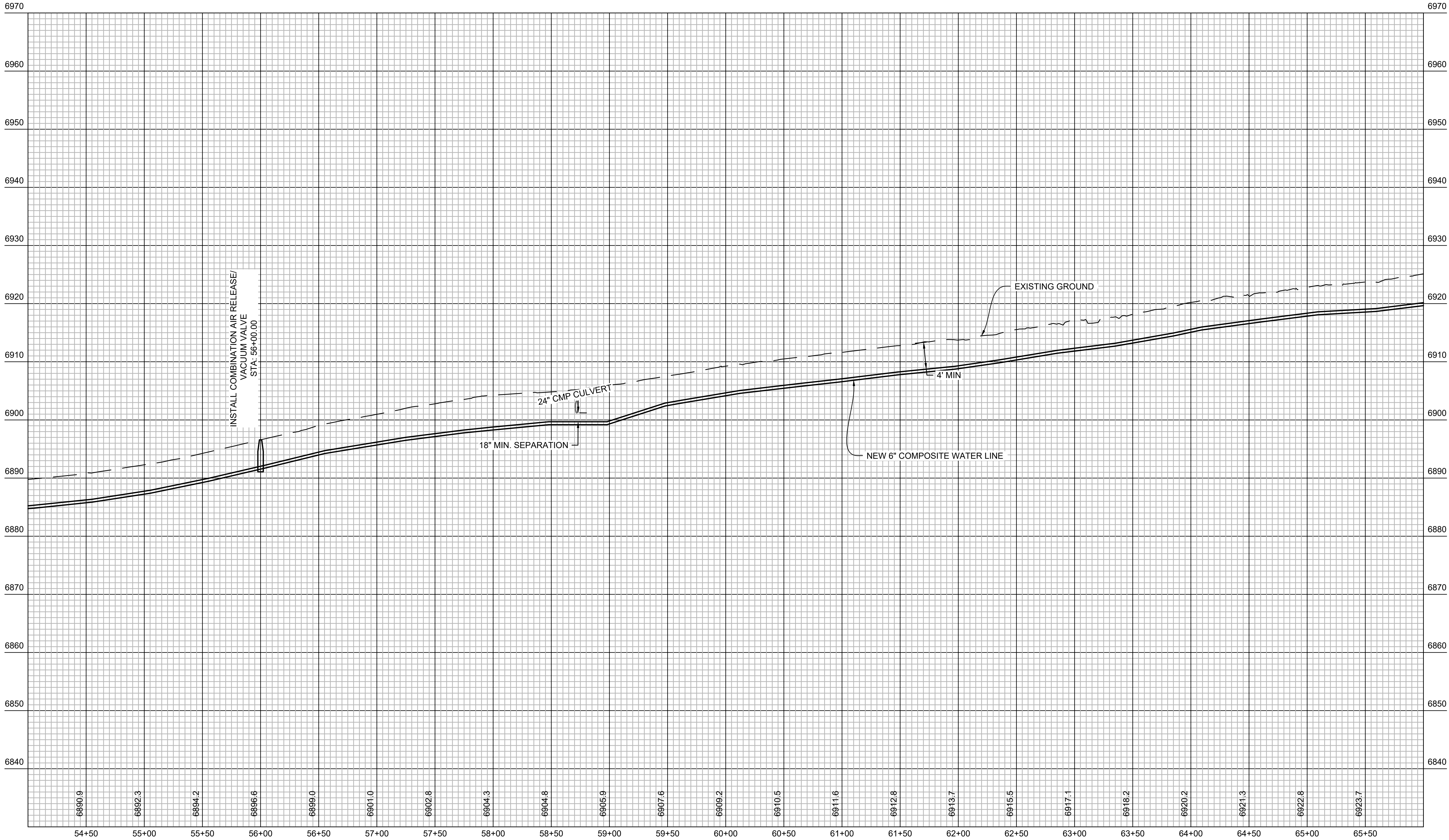
TEE

VALVE

REDUCER

CONTROL POINT

DESIGNED: C. BAILEY	SUB SHEET NO. C20	TITLE OF SHEET WATER LINE PLAN STA 54+00 TO STA 66+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
R. LIGGETT			PMIS/PKG NO. 317500
TECH. REVIEW:			SHEET
DATE: 3/29/24			22 OF 55



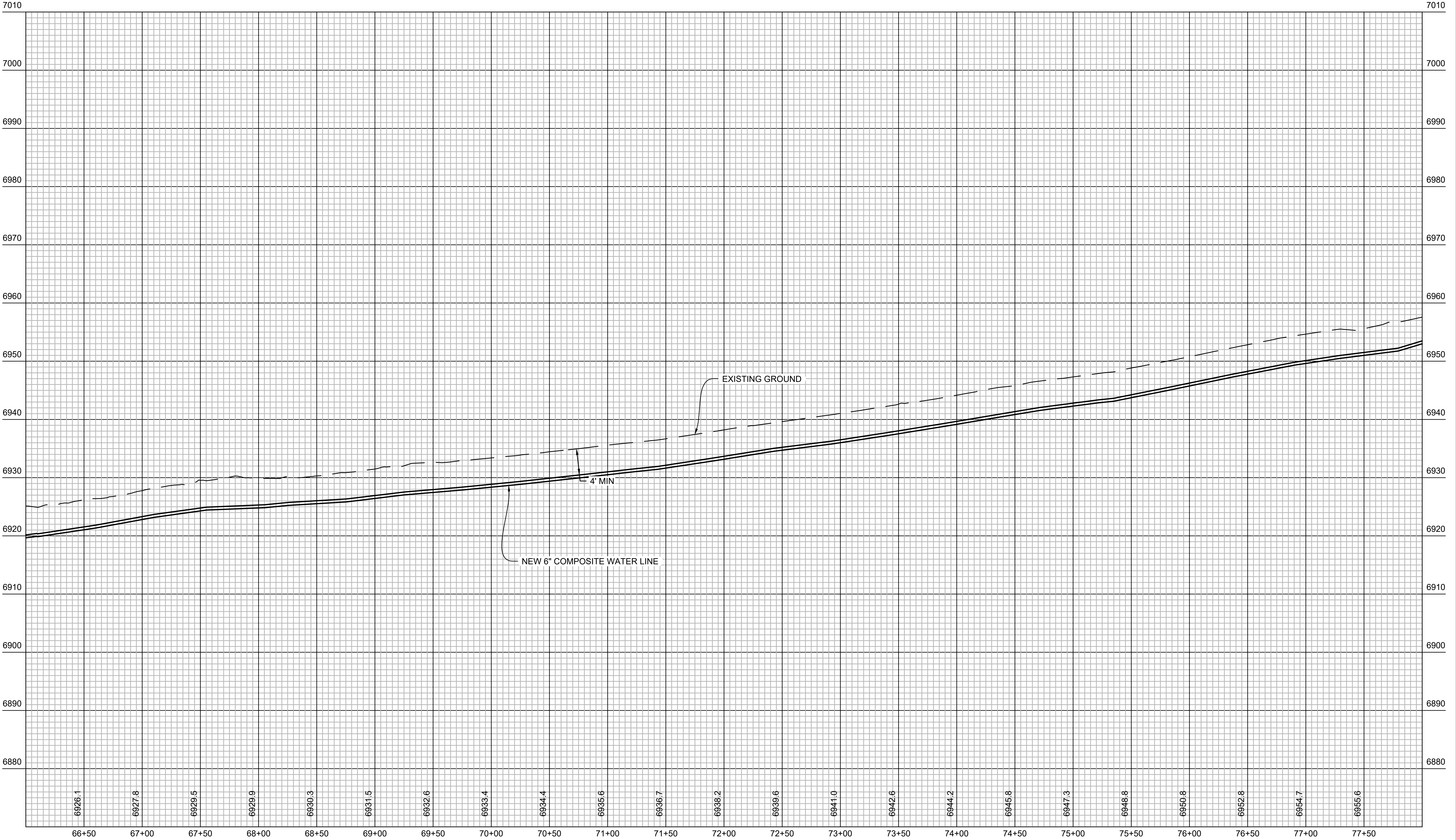
DESIGNED: C. BAILEY CADD R. LIGGETT TECH. REVIEW:	SUB SHEET NO. C21	TITLE OF SHEET WATER LINE PROFILE STA 54+00 TO STA 66+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 23 OF 55
DATE: 3/29/24			



LEGEND	
	SENSITIVE RESOURCE AREA (RARE PLANT)
	MEVE PARK BOUNDARY
	CONSTRUCTION LIMITS
	LIMIT OF WORK FENCING
	NEW WATER LINE ALIGNMENT
	POTENTIAL CONSTRUCTION STAGING AREA
	HYDRANT
	PLUG
	TEE
	VALVE
	REDUCER
	CONTROL POINT



DESIGNED: C. BAILEY	SUB SHEET NO. C22	TITLE OF SHEET WATER LINE PLAN STA 66+00 TO STA 78+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 24 OF 55



7010

7000

6990

6980

6970

6960

6950

6940

6930

6920

6910

6900

6890

6880

7010

7000

6990

6980

6970

6960

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6900

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6880

6926.1

6927.8

6929.5

6929.9

6930.3

6931.5

6932.6

6933.4

6934.4

6935.6

6936.7

6938.2

6939.6

6941.0

6942.6

6944.2

6945.8

6947.3

6948.8

6950.8

6952.8

6954.7

6955.6

66+50

67+00

67+50

68+00

68+50

69+00

69+50

70+00

70+50

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72+00

72+50

73+00

73+50

74+00

74+50

75+00

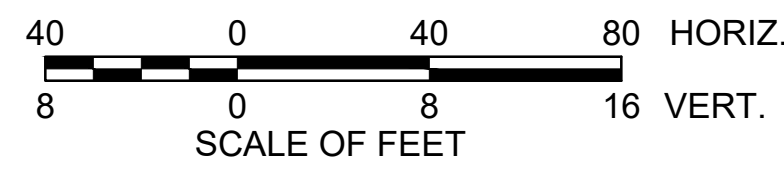
75+50

76+00

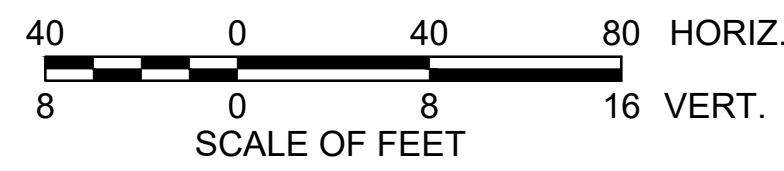
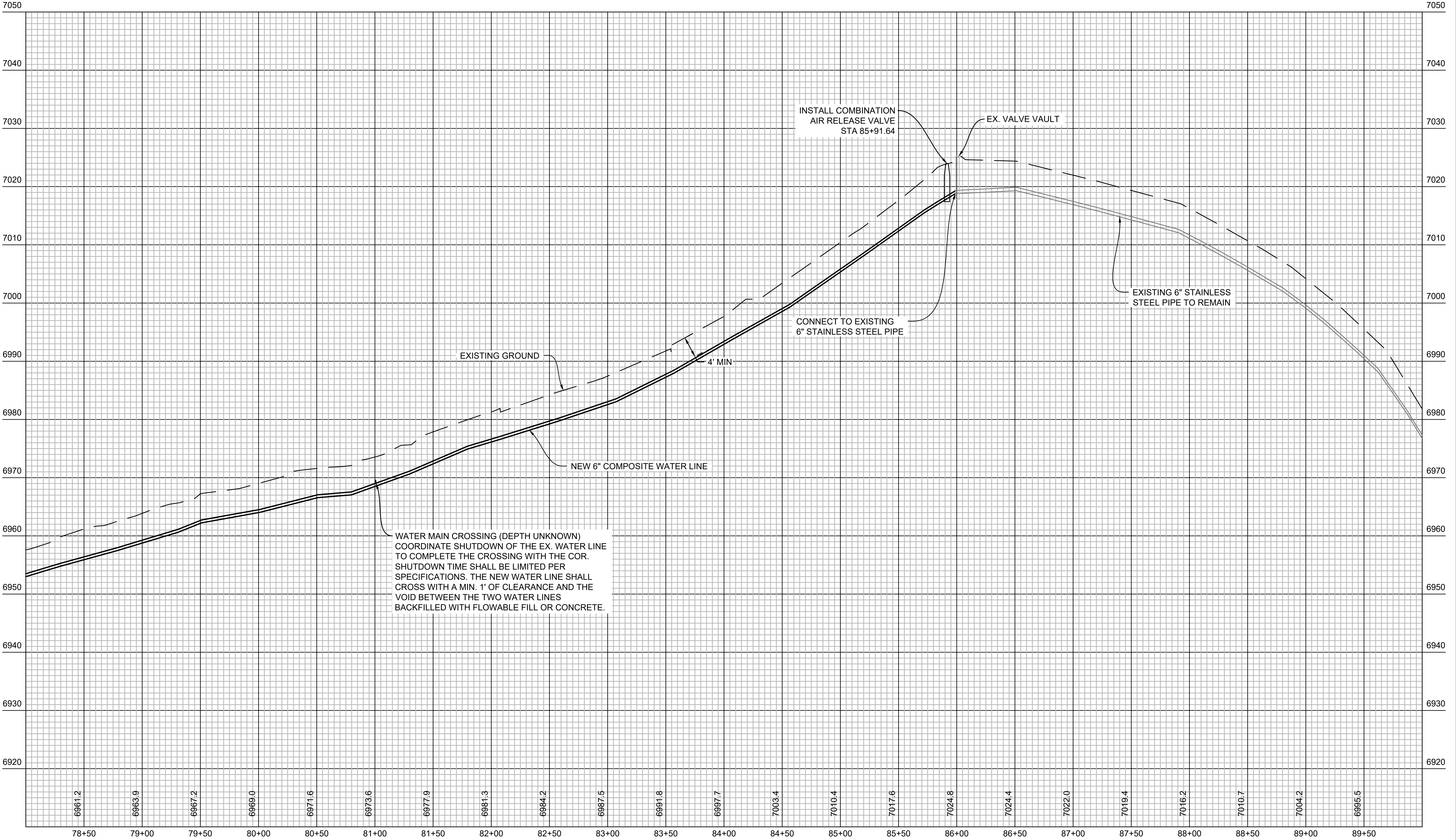
76+50

77+00

77+50



DESIGNED: C. BAILEY R. LIGGETT TECH. REVIEW: DATE: 3/29/24	SUB SHEET NO. C23	TITLE OF SHEET WATER LINE PROFILE STA 66+00 TO STA 78+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 25 OF 55
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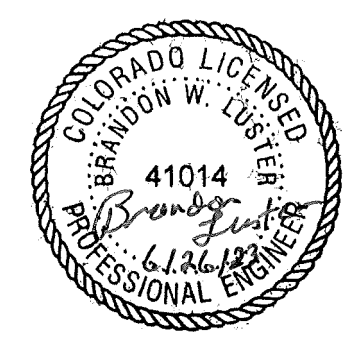


DESIGNED: C. BAILEY	SUB SHEET NO. C25	TITLE OF SHEET WATER LINE PROFILE STA 78+00 TO STA 90+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 27 OF 55

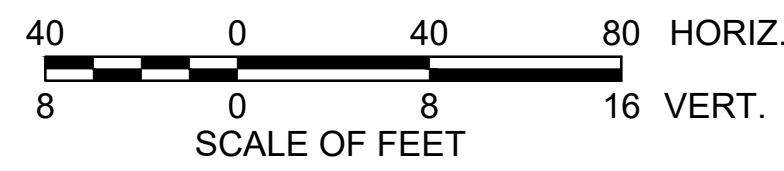
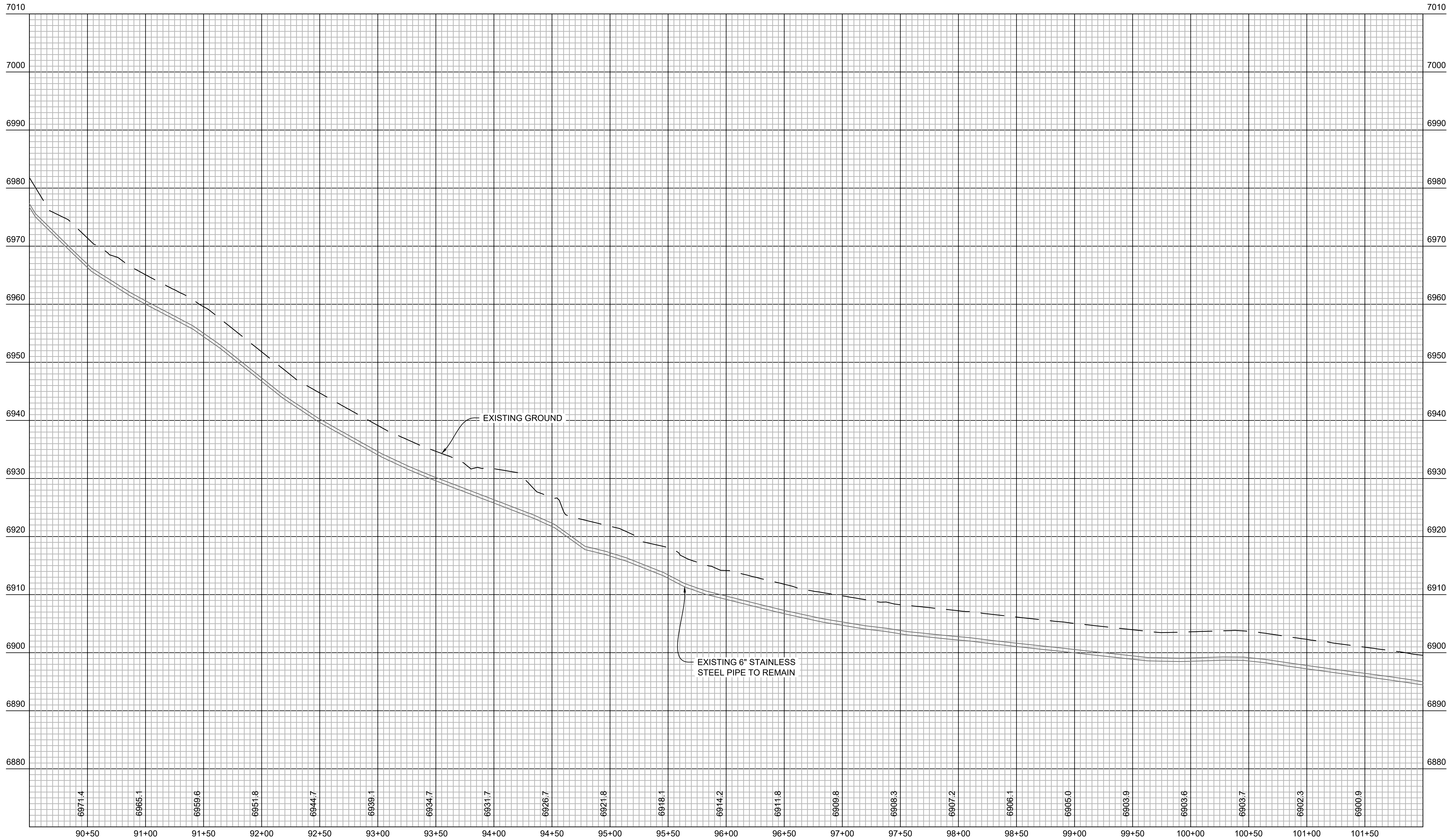


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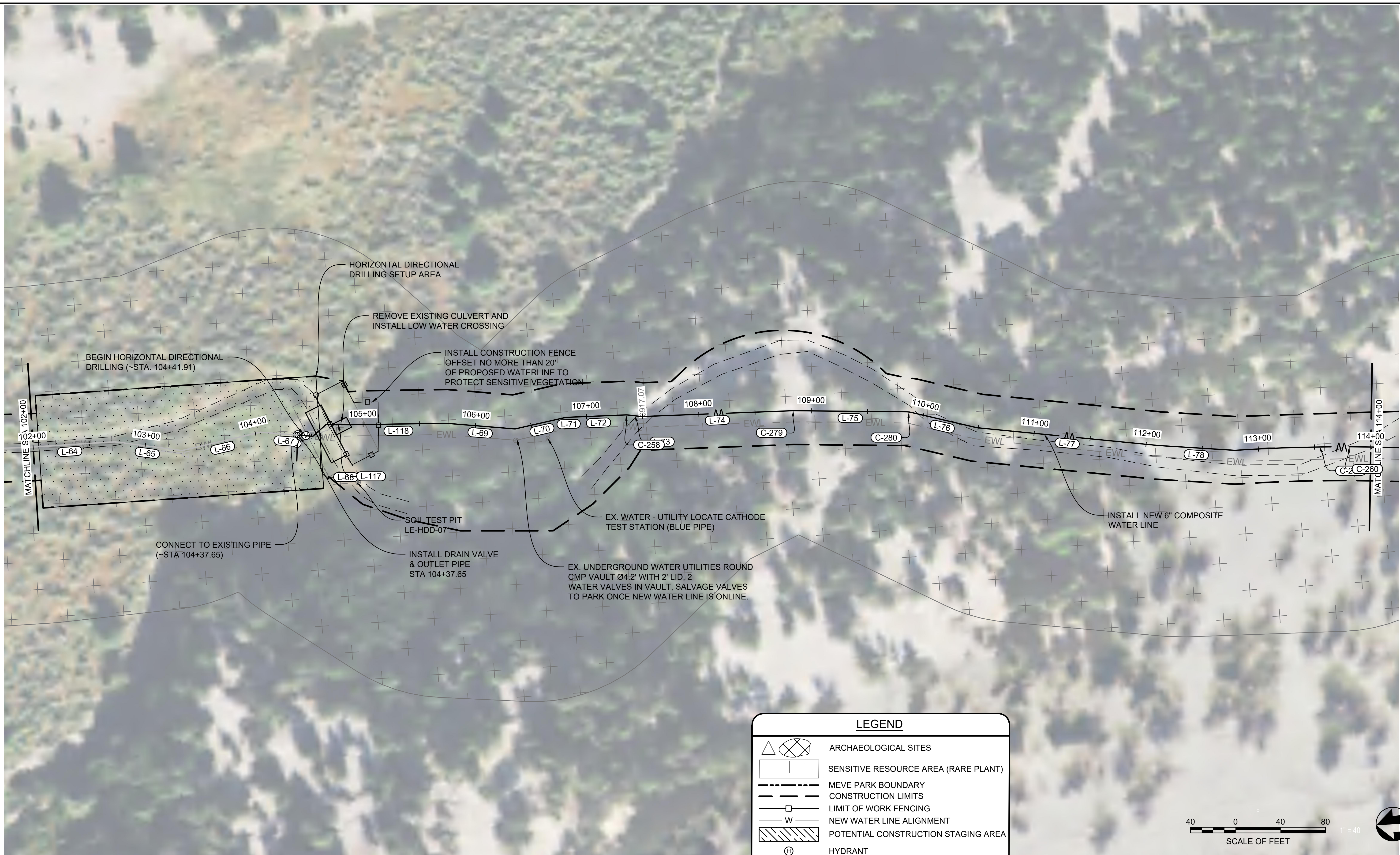
- SENSITIVE RESOURCE AREA (RARE PLANT)
- MEVE PARK BOUNDARY
- CONSTRUCTION LIMITS
- LIMIT OF WORK FENCING
- NEW WATER LINE ALIGNMENT
- POTENTIAL CONSTRUCTION STAGING AREA
- HYDRANT
- PLUG
- TEE
- VALVE
- REDUCER
- CONTROL POINT



DESIGNED: C. BAILEY	SUB SHEET NO. C26	TITLE OF SHEET WATER LINE PLAN STA 90+00 TO STA 102+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307
BY: R. LIGGETT			176605
TECH. REVIEW:			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 28 OF 55

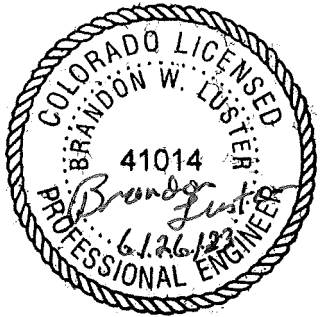


DESIGNED: C. BAILEY	SUB SHEET NO. C27	TITLE OF SHEET WATER LINE PROFILE STA 90+00 TO STA 102+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 29 OF 55

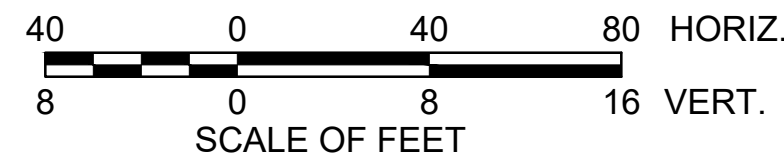
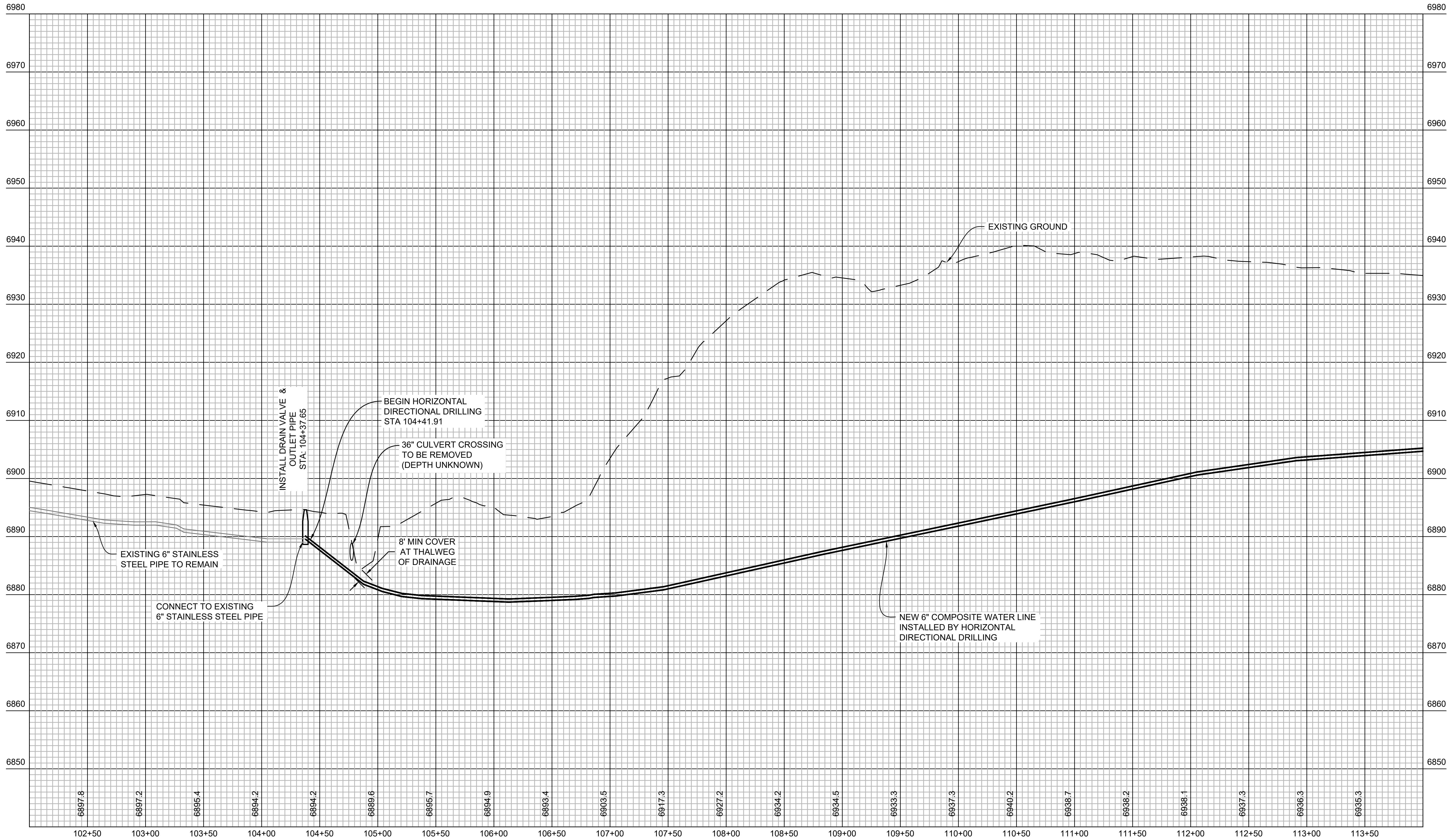


LEGEND

	ARCHAEOLOGICAL SITES
	SENSITIVE RESOURCE AREA (RARE PLANT)
	MEVE PARK BOUNDARY
	CONSTRUCTION LIMITS
	LIMIT OF WORK FENCING
	NEW WATER LINE ALIGNMENT
	POTENTIAL CONSTRUCTION STAGING AREA
	HYDRANT
	PLUG
	TEE
	VALVE
	REDUCER
	CONTROL POINT



DESIGNED: C. BAILEY	SUB SHEET NO. C28	TITLE OF SHEET WATER LINE PLAN STA 102+00 TO STA 114+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 30 OF 55
TECH. REVIEW: R. LIGGETT	DATE: 4/2/24		

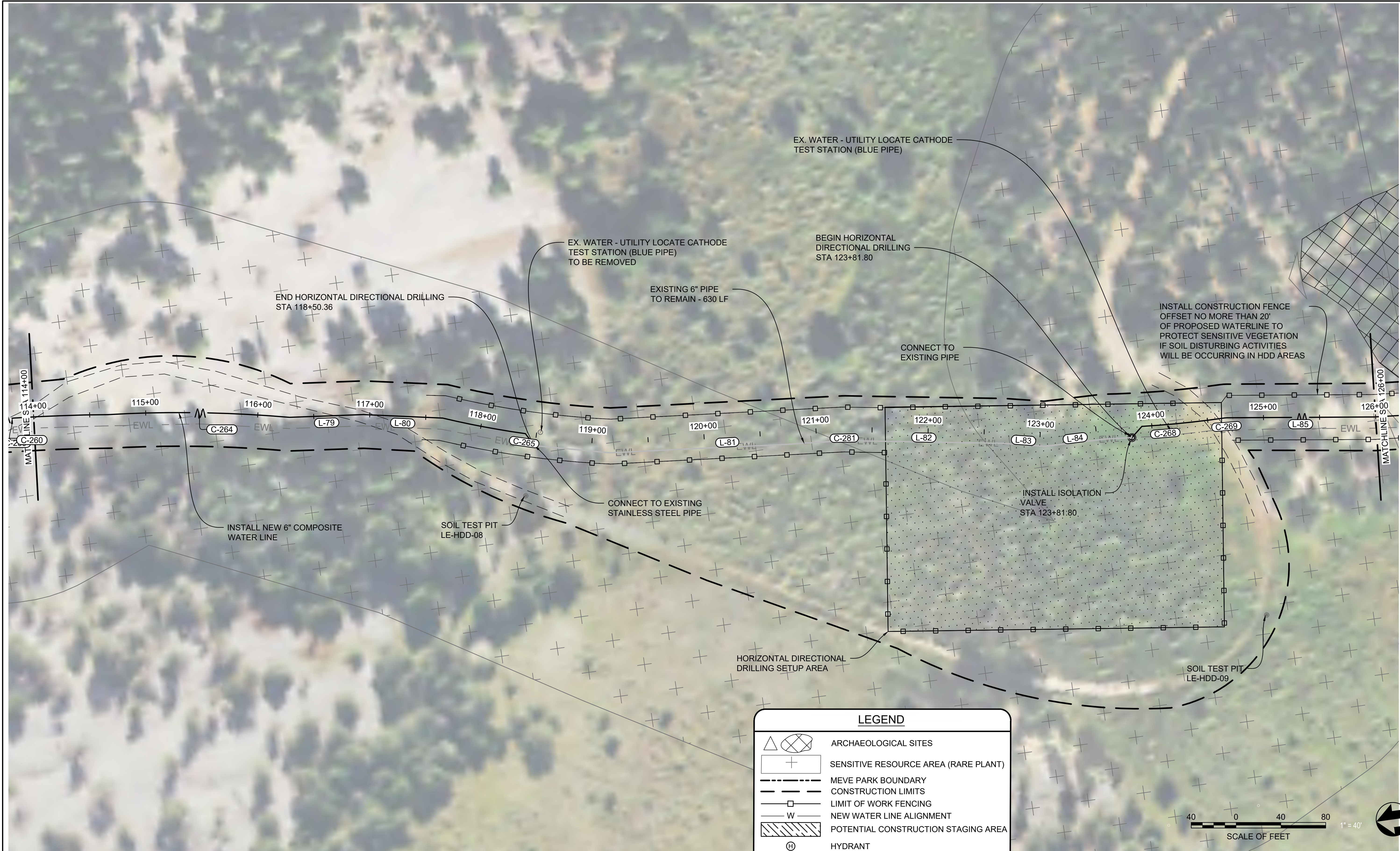


DESIGNED:
C. BAILEY
R. LIGGETT
TECH. REVIEW:
DATE:
3/29/24

SUB SHEET NO.
C29

TITLE OF SHEET
**WATER LINE
PROFILE
STA 102+00 TO STA 114+00**
MOREFIELD CANYON
MESA VERDE NATIONAL PARK

DRAWING NO.
**307
176605**
PMS/PKG NO.
317500
SHEET
31 OF 55

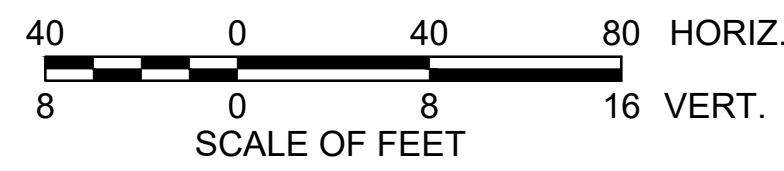
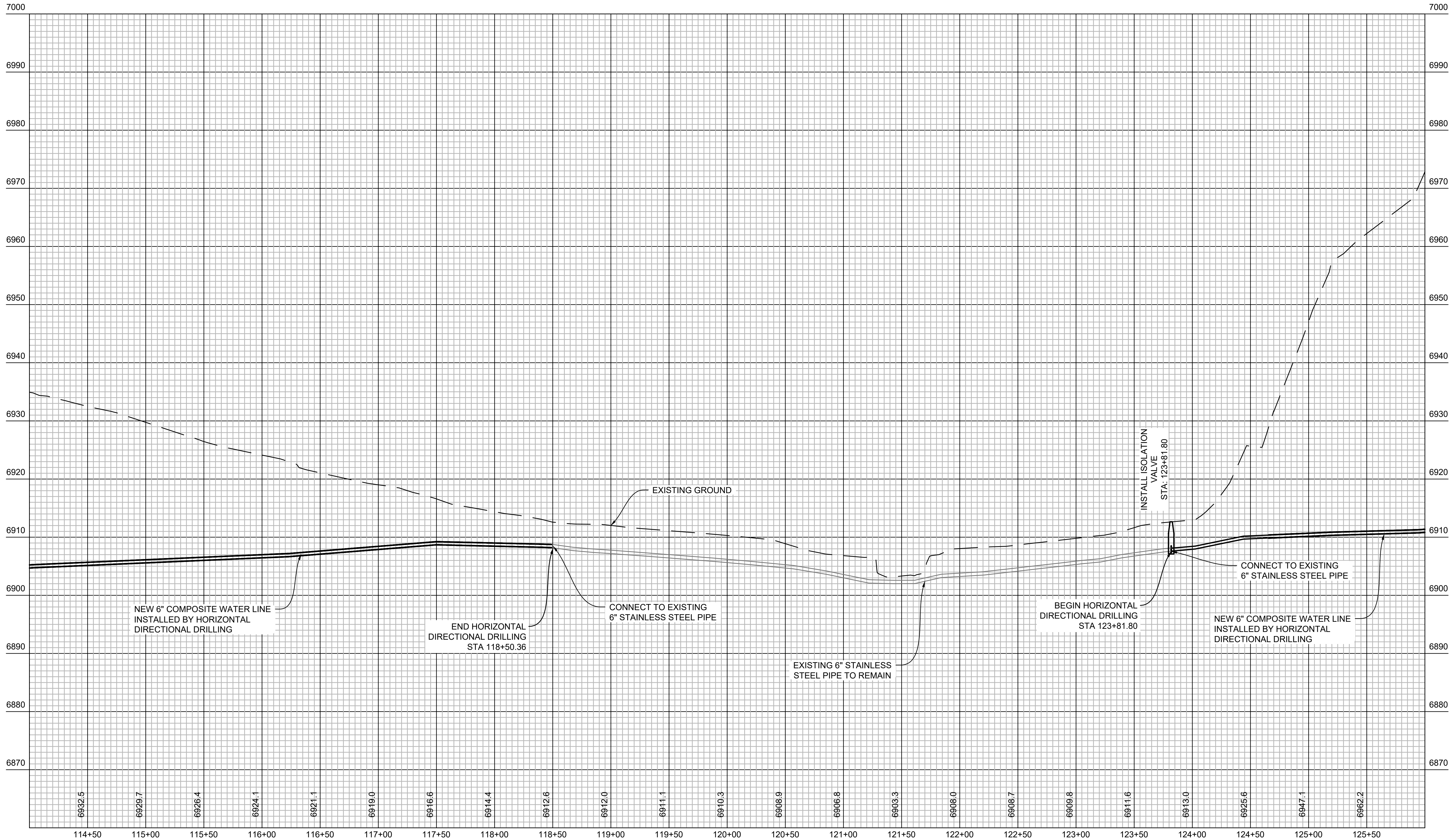


LEGEND

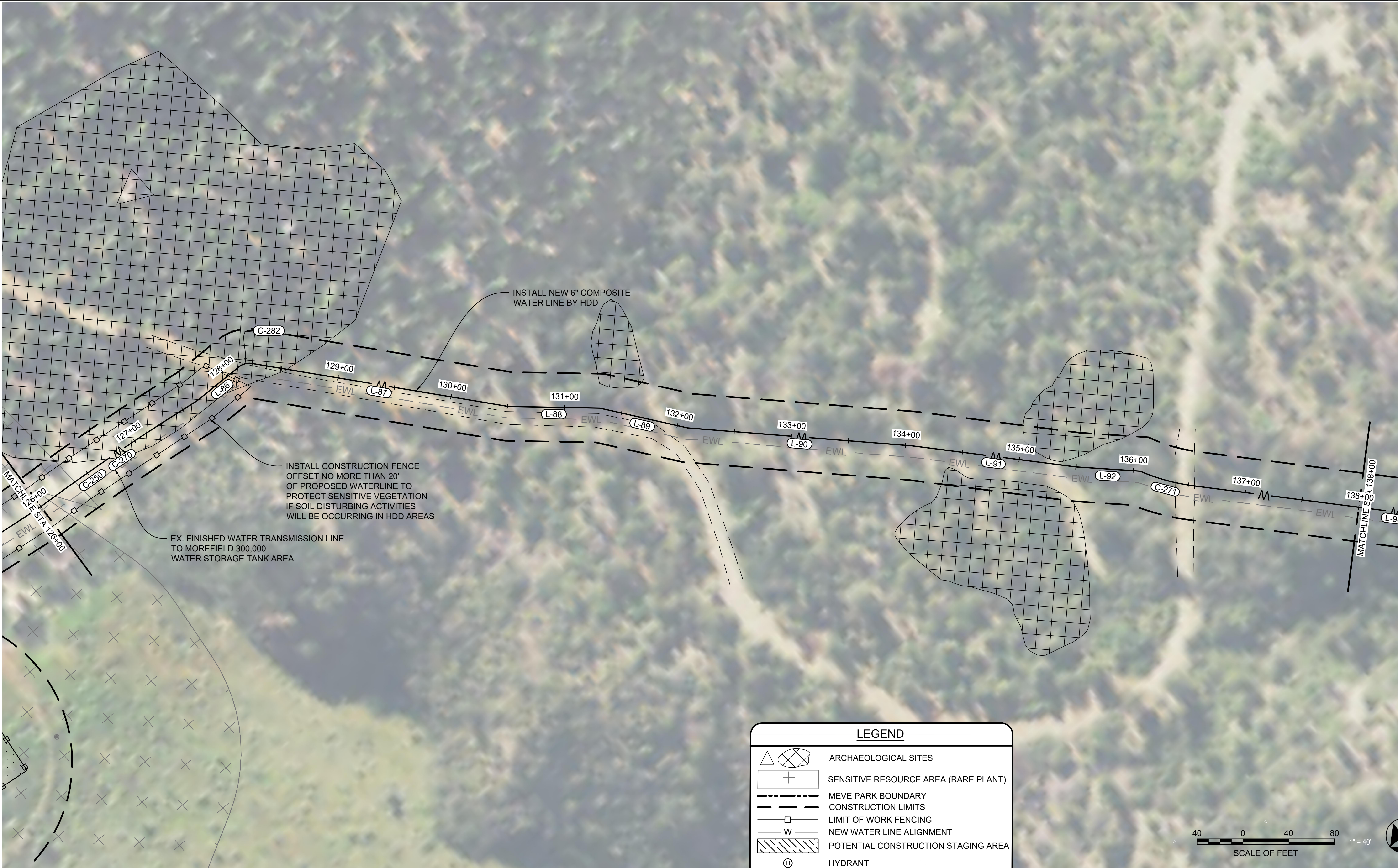
	ARCHAEOLOGICAL SITES
	SENSITIVE RESOURCE AREA (RARE PLANT)
	MEVE PARK BOUNDARY
	CONSTRUCTION LIMITS
	LIMIT OF WORK FENCING
	NEW WATER LINE ALIGNMENT
	POTENTIAL CONSTRUCTION STAGING AREA
	HYDRANT
	PLUG
	TEE
	VALVE
	REDUCER
	CONTROL POINT



DESIGNED: C. BAILEY	SUB SHEET NO. C30	TITLE OF SHEET WATER LINE PLAN STA 114+00 TO STA 126+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 4/2/24			SHEET 32 OF 55



DESIGNED: C. BAILEY	SUB SHEET NO. C31	TITLE OF SHEET WATER LINE PROFILE STA 114+00 TO STA 126+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
ADD R. LIGGETT			PMIS/PKG NO. 317500
TECH. REVIEW:			SHEET 33 OF 55
DATE: 3/29/24			

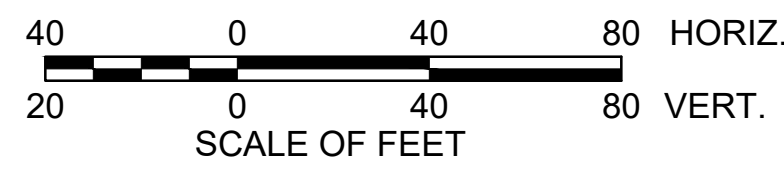
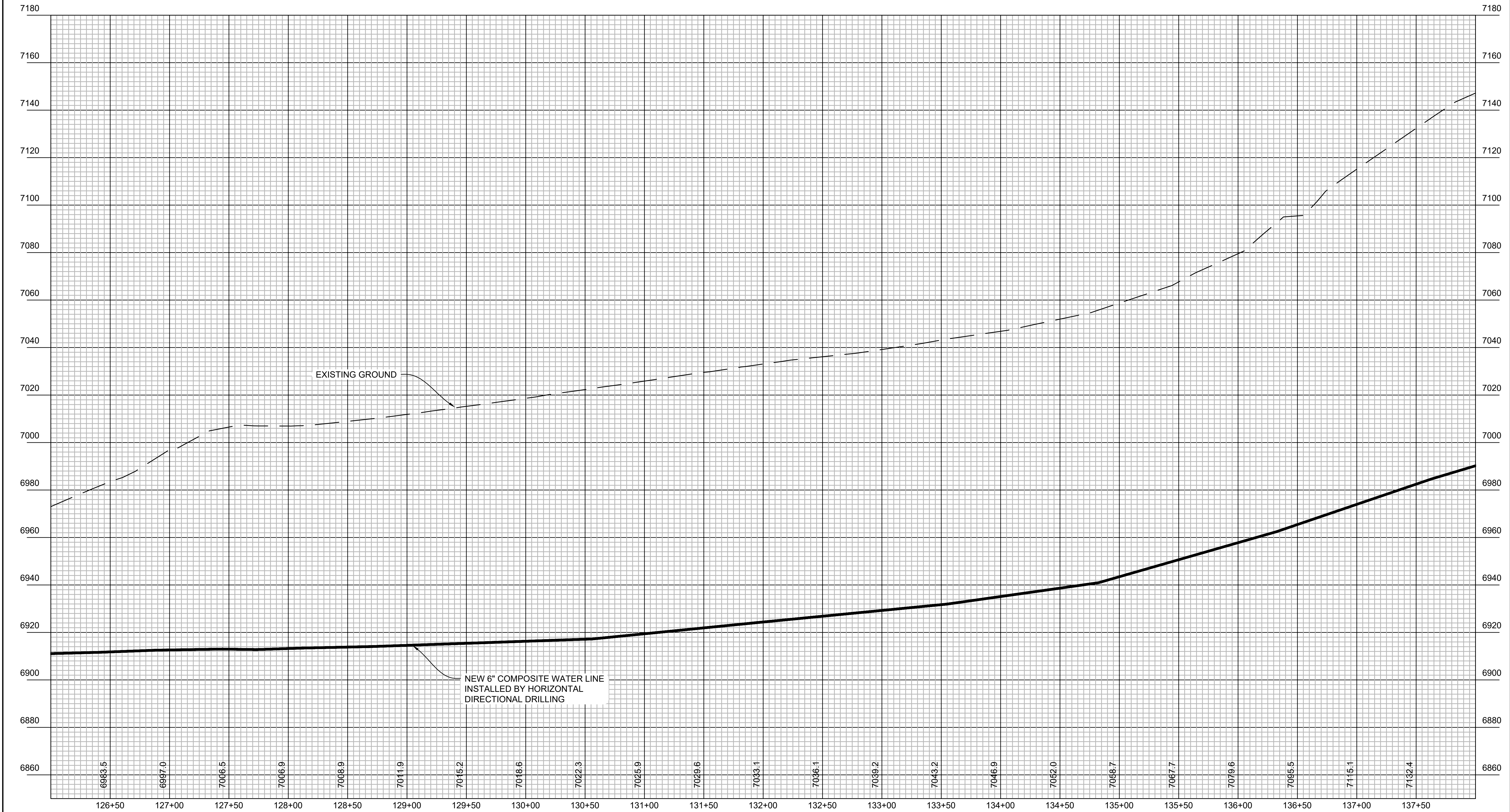


LEGEND

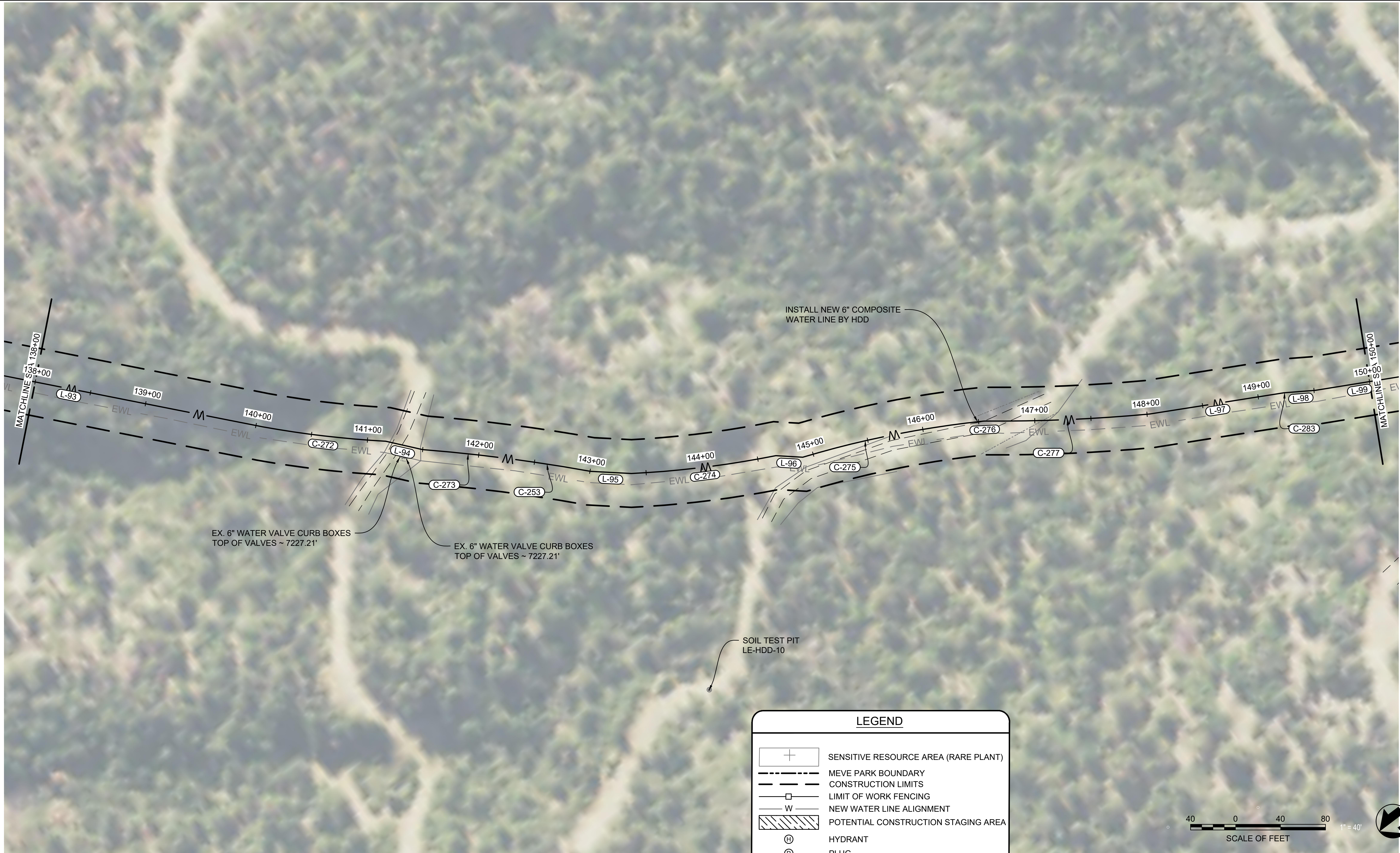
	ARCHAEOLOGICAL SITES
	SENSITIVE RESOURCE AREA (RARE PLANT)
	MEVE PARK BOUNDARY
	CONSTRUCTION LIMITS
	LIMIT OF WORK FENCING
	NEW WATER LINE ALIGNMENT
	POTENTIAL CONSTRUCTION STAGING AREA
	HYDRANT
	PLUG
	TEE
	VALVE
	REDUCER
	CONTROL POINT



DESIGNED: C. BAILEY	SUB SHEET NO. C32	TITLE OF SHEET WATER LINE PLAN STA 126+00 TO STA 138+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 4/2/24			SHEET 34 OF 55



DESIGNED: C. BAILEY	SUB SHEET NO. C33	TITLE OF SHEET WATER LINE PROFILE STA 126+00 TO STA 138+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 35 OF 55



LEGEND

+

SENSITIVE RESOURCE AREA (RARE PLANT)

MEVE PARK BOUNDARY

CONSTRUCTION LIMITS

LIMIT OF WORK FENCING

NEW WATER LINE ALIGNMENT

POTENTIAL CONSTRUCTION STAGING AREA

Ⓜ

Ⓟ

Ⓣ

Ⓥ

Ⓡ

⚠

HYDRANT

PLUG

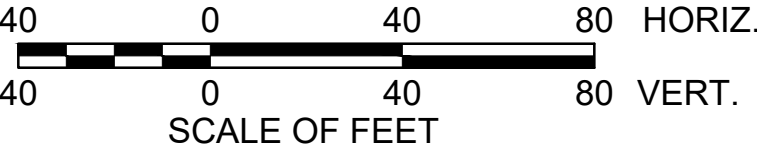
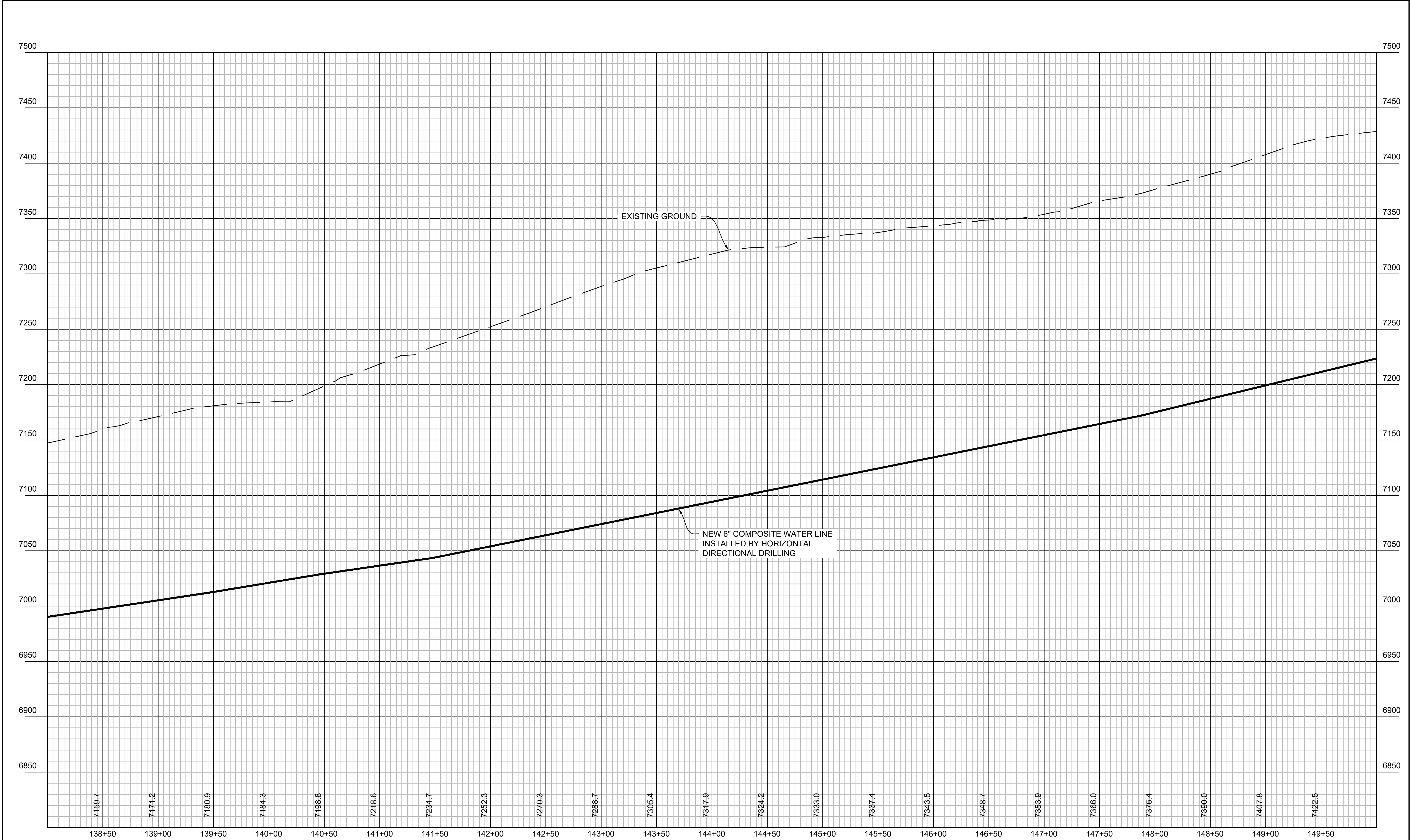
TEE

VALVE

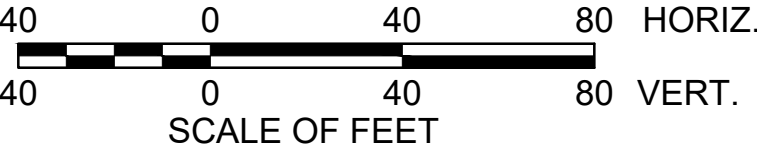
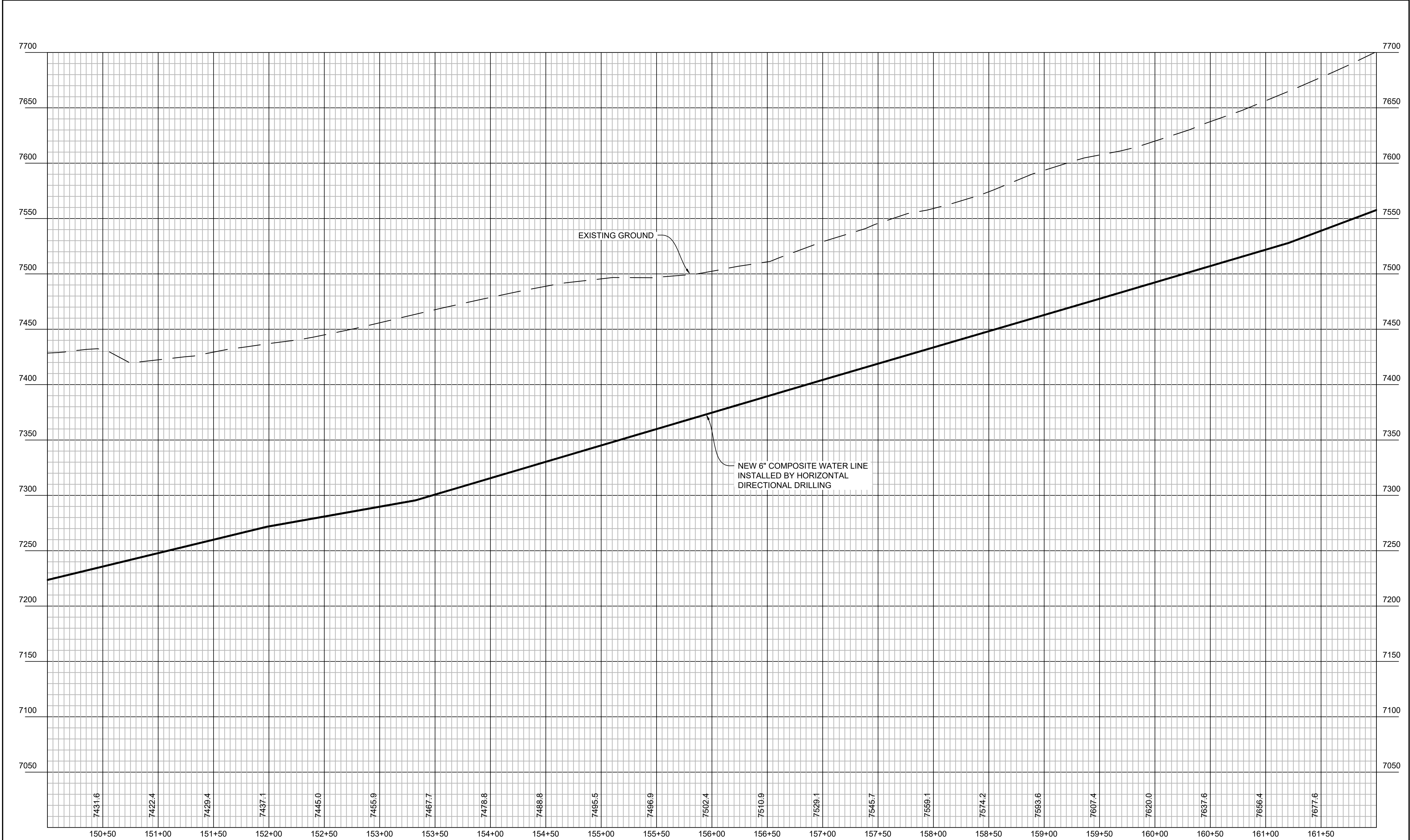
REDUCER

CONTROL POINT

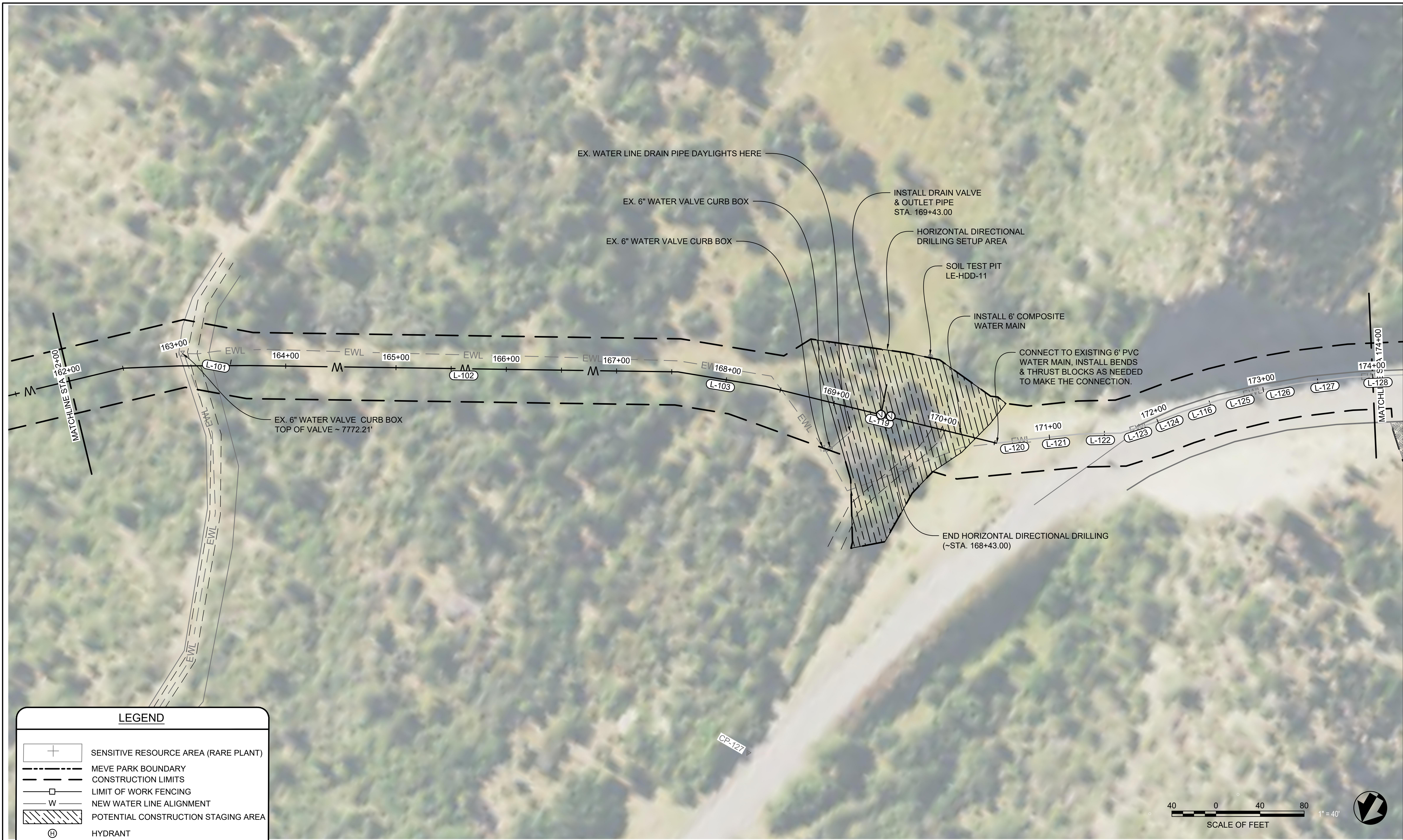
DESIGNED: C. BAILEY	SUB SHEET NO. C34	TITLE OF SHEET WATER LINE PLAN STA 138+00 TO STA 150+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 36 OF 55
TECH. REVIEW: R. LIGGETT			
DATE: 3/29/24			



DESIGNED: C. BAILEY CADD R. LIGGETT TECH. REVIEW:	SUB SHEET NO. C35	TITLE OF SHEET WATER LINE PROFILE STA 138+00 TO STA 150+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 37 OF 55
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DESIGNED: C. BAILEY CADD R. LIGGETT TECH. REVIEW: DATE: 3/29/24	SUB SHEET NO. C37	TITLE OF SHEET WATER LINE PROFILE STA 150+00 TO STA 162+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 39 OF 55
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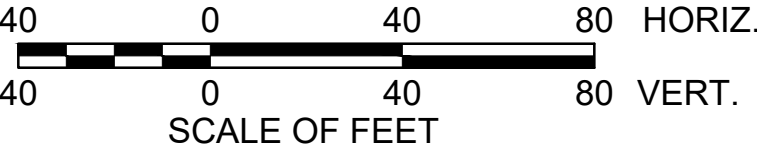
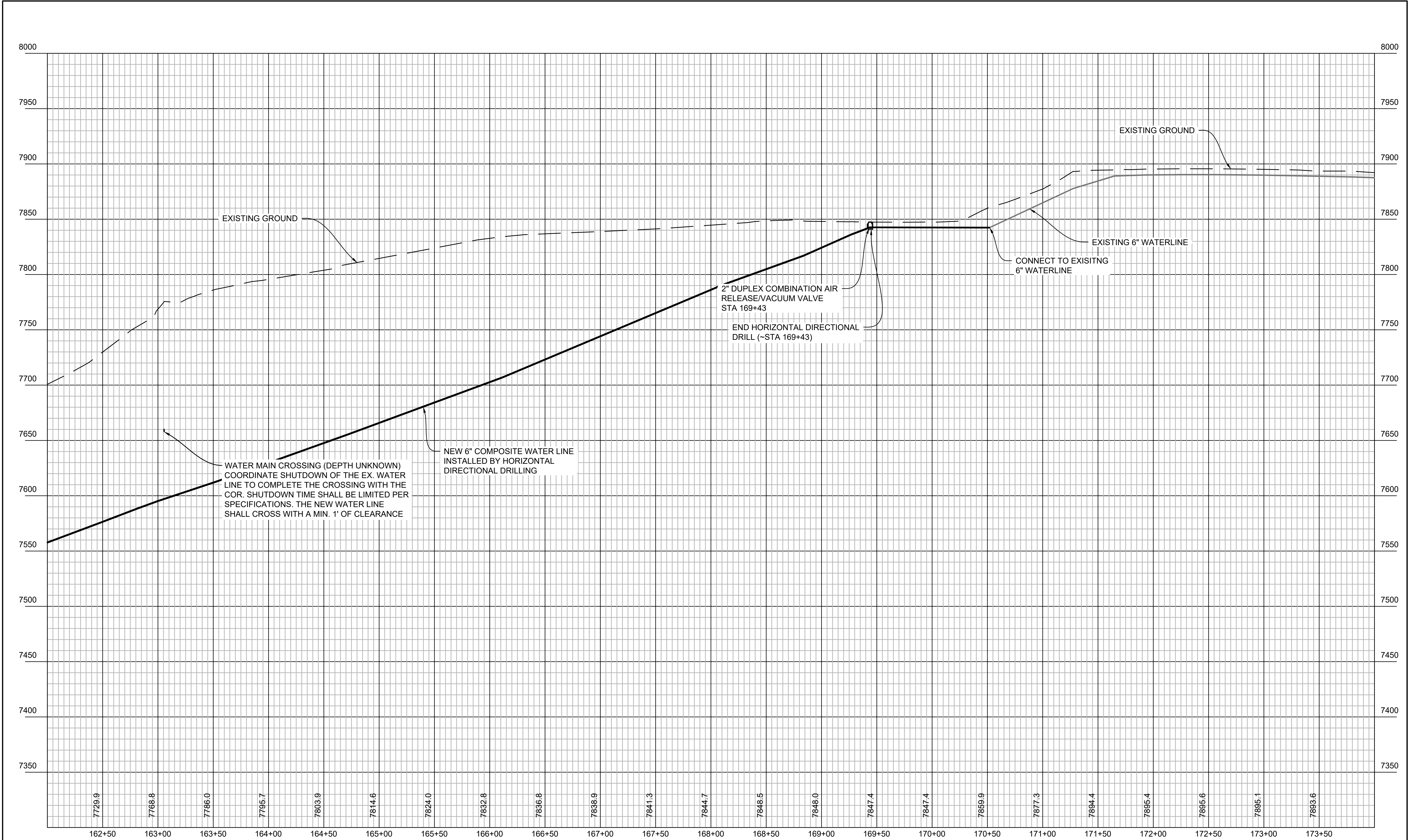


LEGEND

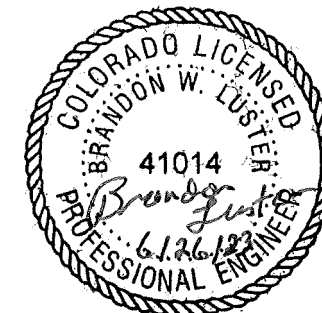
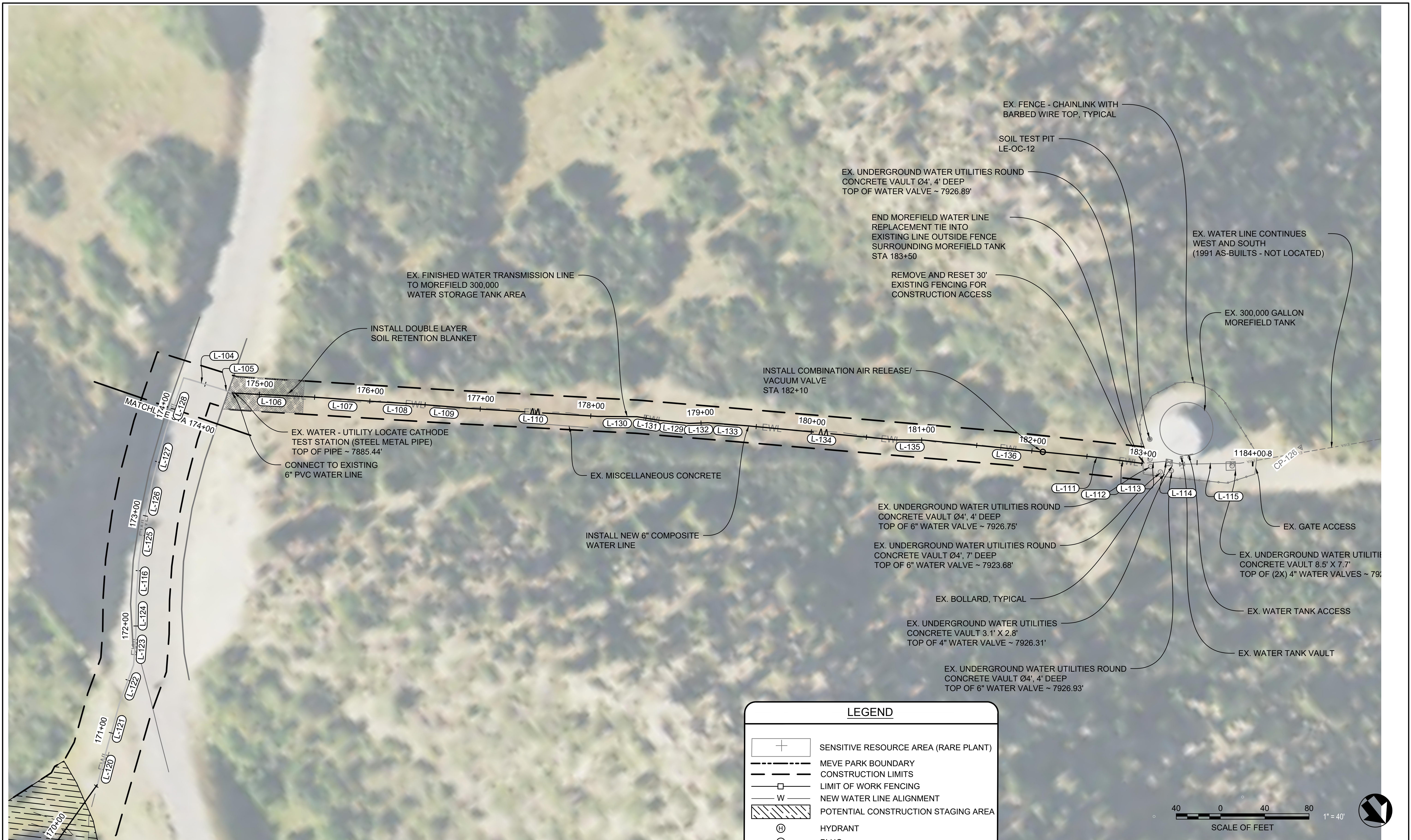
- | | |
|--|--------------------------------------|
| | SENSITIVE RESOURCE AREA (RARE PLANT) |
| | MEVE PARK BOUNDARY |
| | CONSTRUCTION LIMITS |
| | LIMIT OF WORK FENCING |
| | NEW WATER LINE ALIGNMENT |
| | POTENTIAL CONSTRUCTION STAGING AREA |
| | HYDRANT |
| | PLUG |
| | TEE |
| | VALVE |
| | REDUCER |
| | CONTROL POINT |



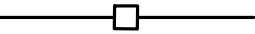
DESIGNED: C. BAILEY	SUB SHEET NO. C38	TITLE OF SHEET WATER LINE PLAN STA 162+00 TO STA 174+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 40 OF 55



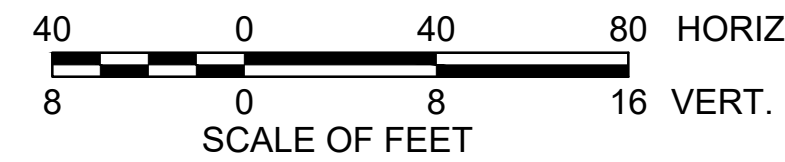
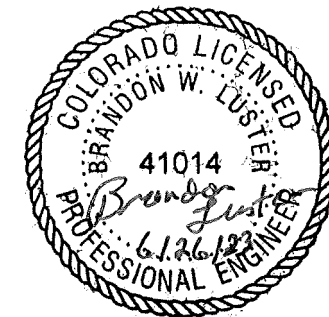
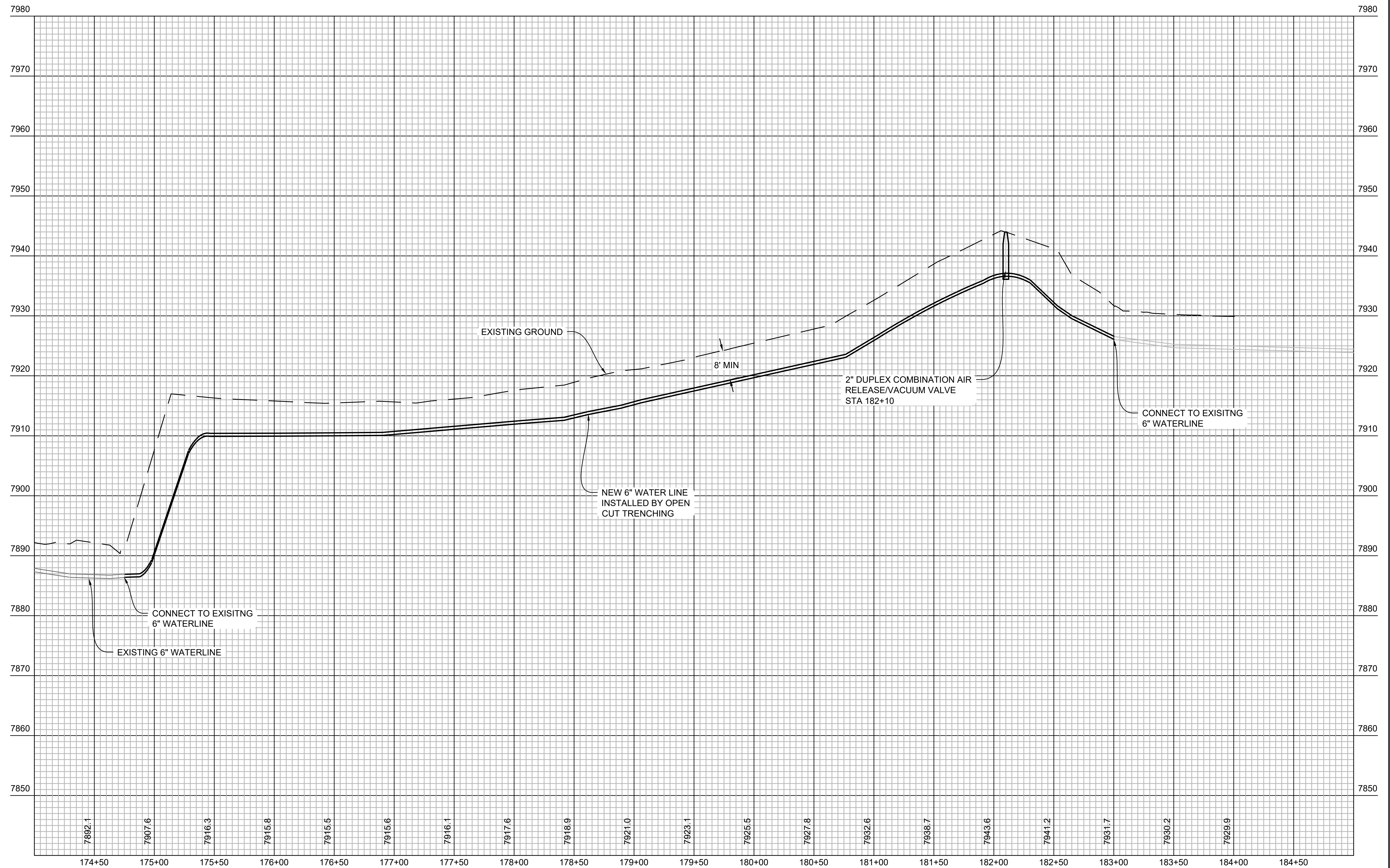
DESIGNED: C. BAILEY R. LIGGETT TECH. REVIEW: DATE: 3/29/24	SUB SHEET NO. C39	TITLE OF SHEET WATER LINE PROFILE STA 162+00 TO STA 174+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 41 OF 55
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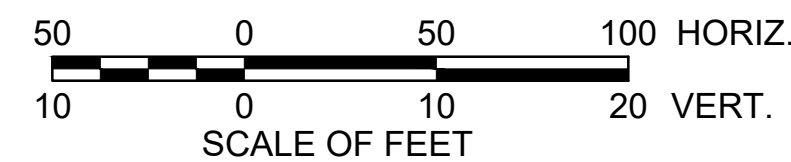
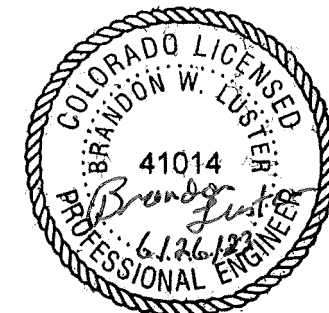
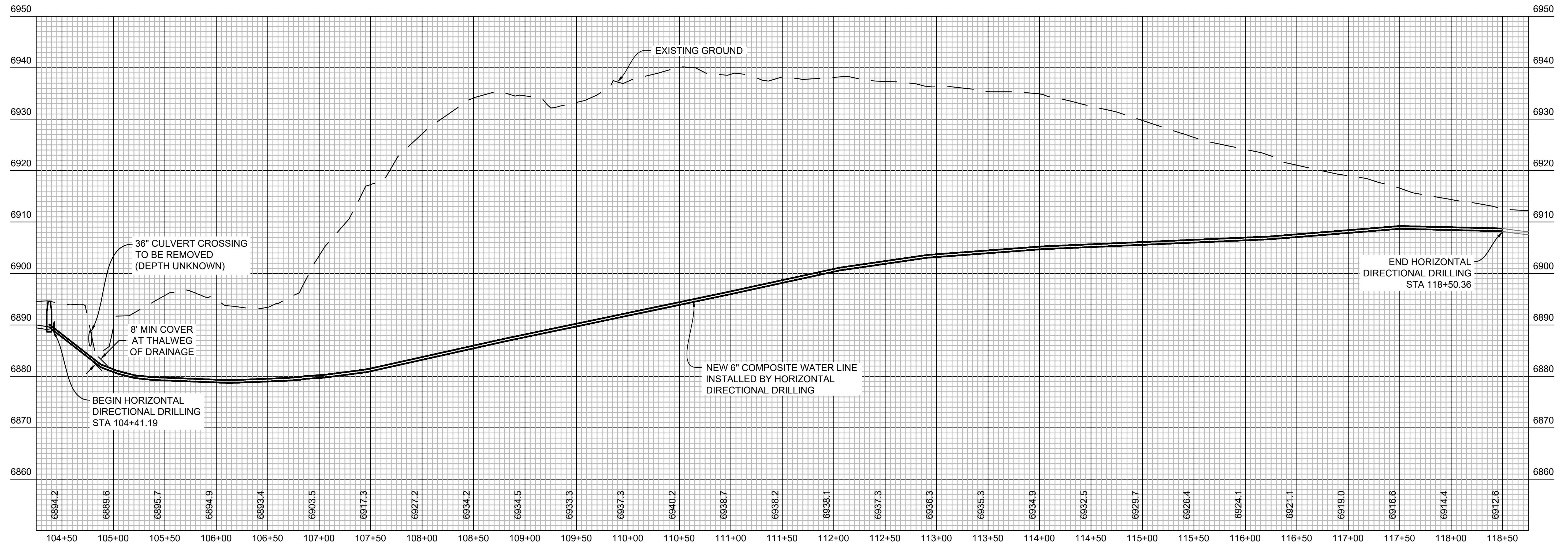
LEGEND

	SENSITIVE RESOURCE AREA (RARE PLANT)
	MEVE PARK BOUNDARY
	CONSTRUCTION LIMITS
	LIMIT OF WORK FENCING
	NEW WATER LINE ALIGNMENT
	POTENTIAL CONSTRUCTION STAGING AREA
	HYDRANT
	PLUG
	TEE
	VALVE
	REDUCER
	CONTROL POINT

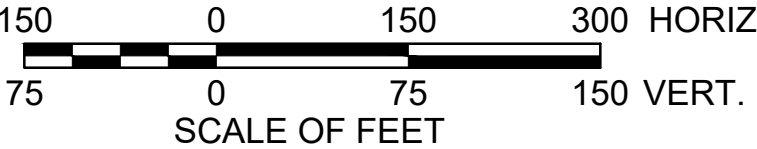
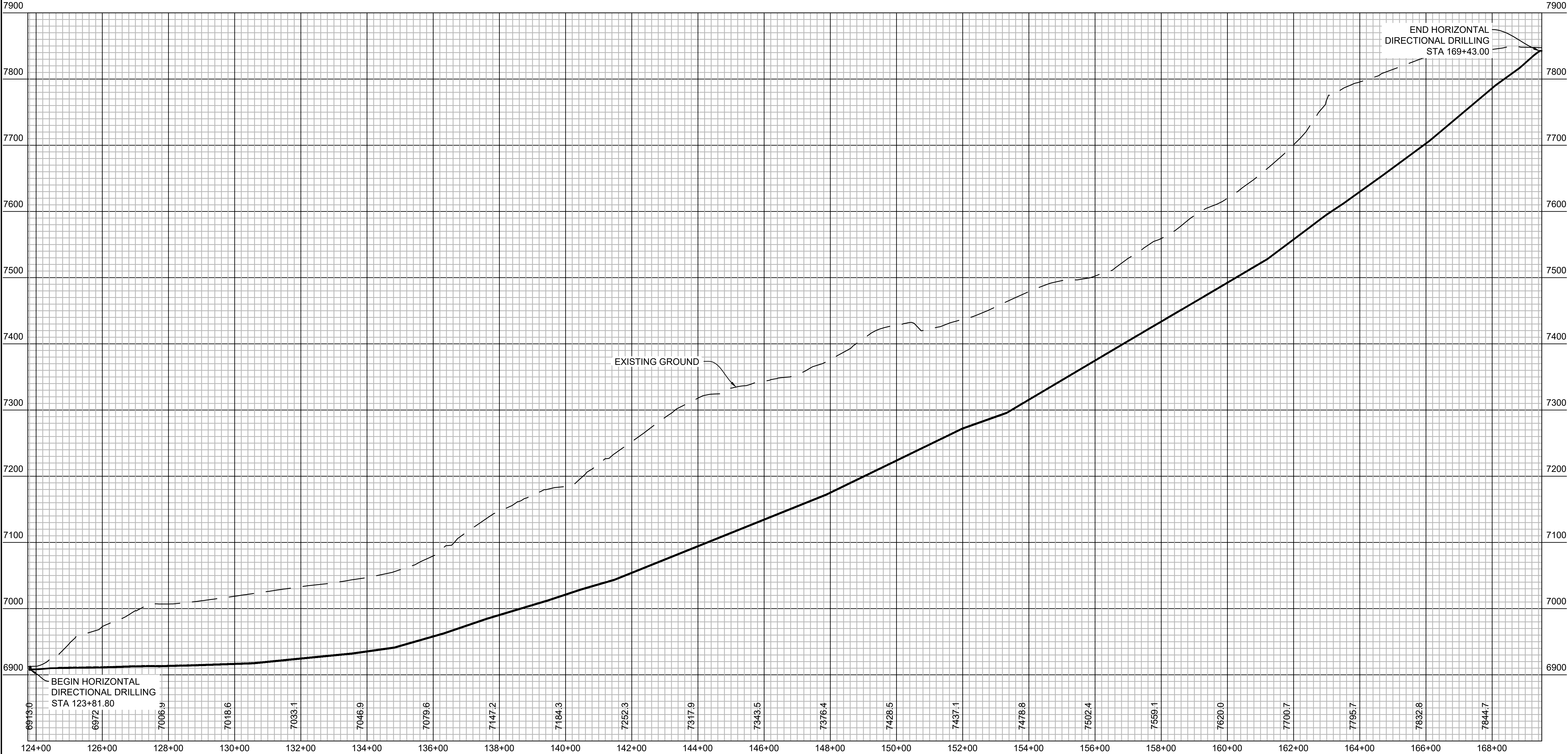
DESIGNED:	SUB SHEET NO. C40	TITLE OF SHEET	DRAWING NO.
C. BAILEY		WATER LINE PLAN STA 174+00 TO STA 184+42 MOREFIELD CANYON MESA VERDE NATIONAL PARK	307
CADD			176605
R. LIGGETT			PMIS/PKG NO. 317500
TECH. REVIEW:		SHEET	
DATE: 3/29/24			42 OF 55



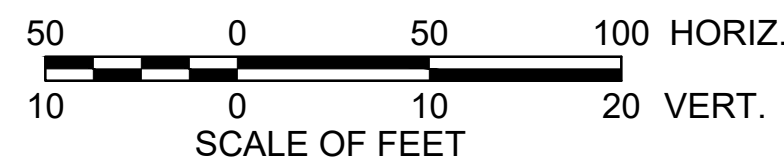
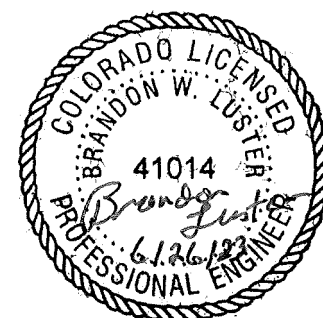
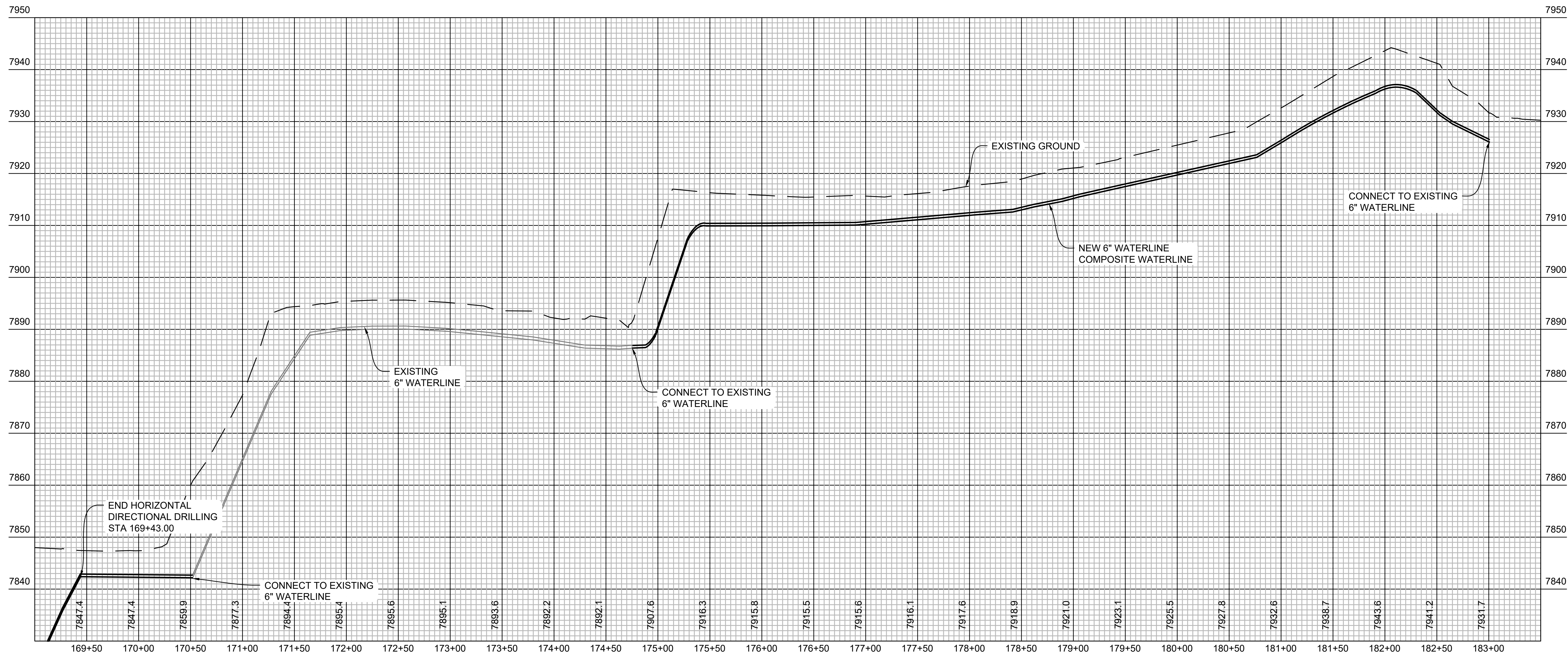
DESIGNED: C. BAILEY R. LIGGETT TECH. REVIEW: DATE: 3/29/24	SUB SHEET NO. C41	TITLE OF SHEET WATER LINE PROFILE STA 174+00 TO STA 185+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 43 OF 55
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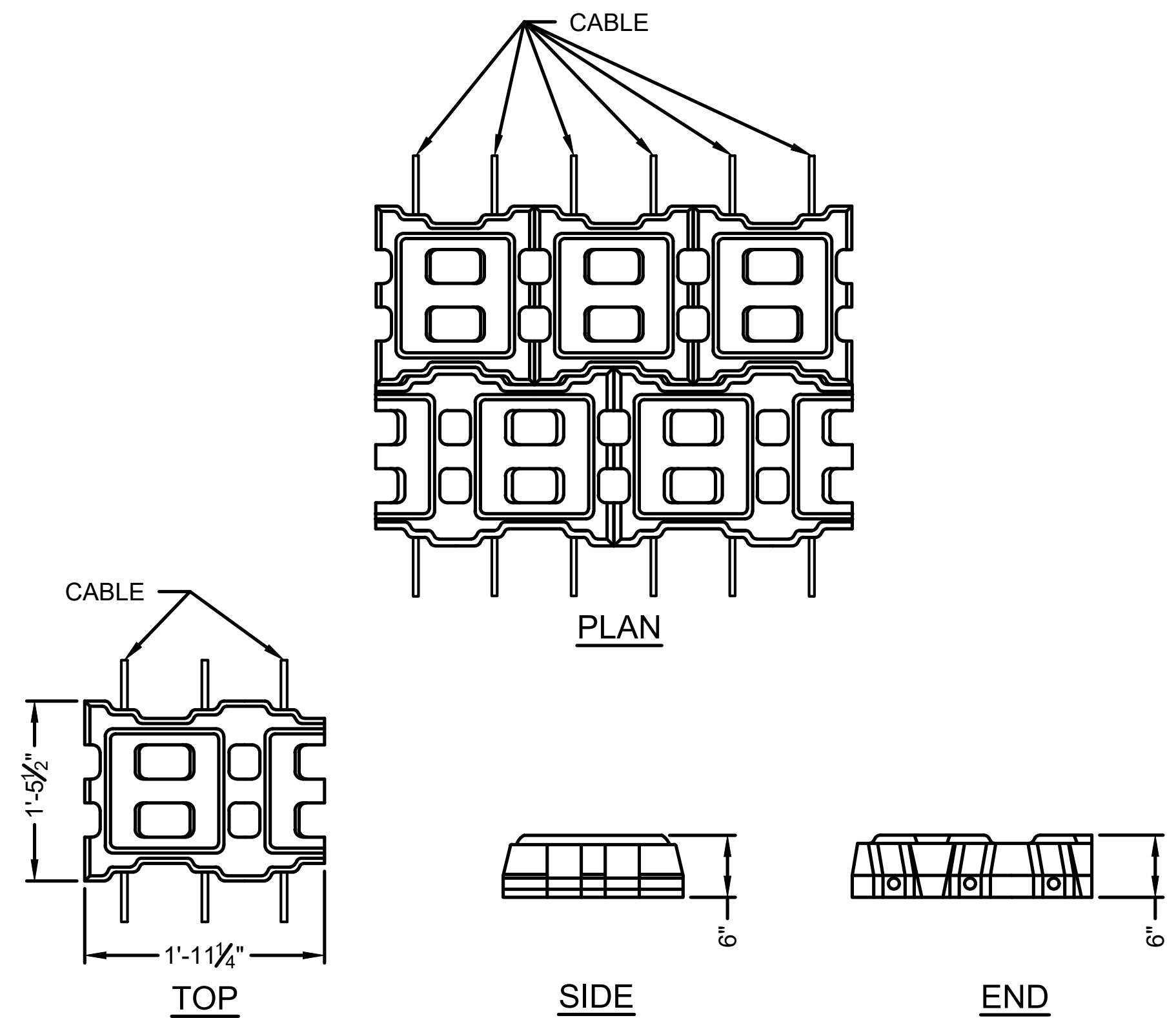
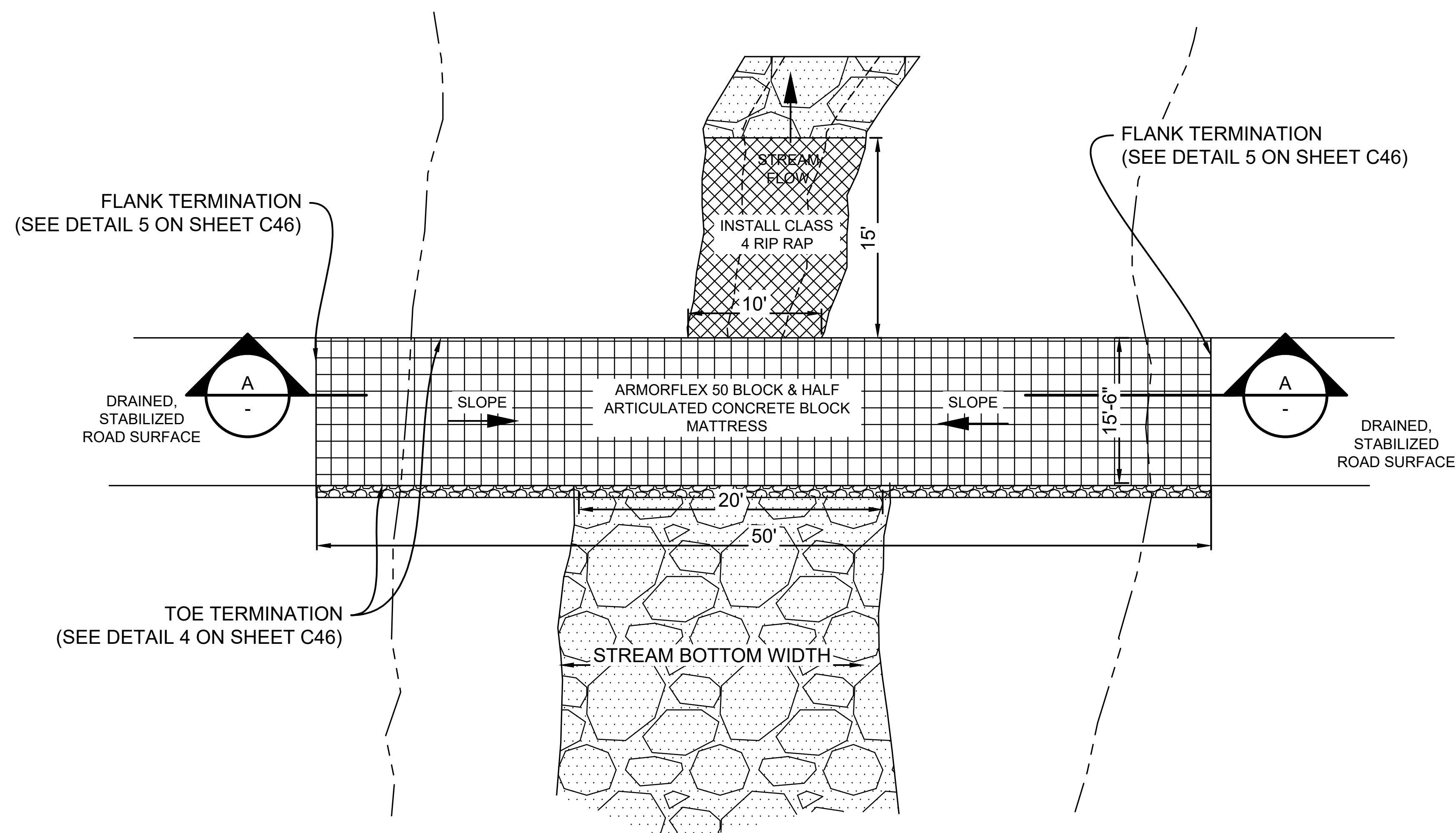
DESIGNED: C. BAILEY	SUB SHEET NO. C42	TITLE OF SHEET HDD WATER LINE PROFILE STA 104+41.19 TO STA 118+50.36 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
CHDD R. LIGGETT			PMIS/PKG NO. 317500
TECH. REVIEW:			SHEET
DATE: 3/29/24			44 OF 55



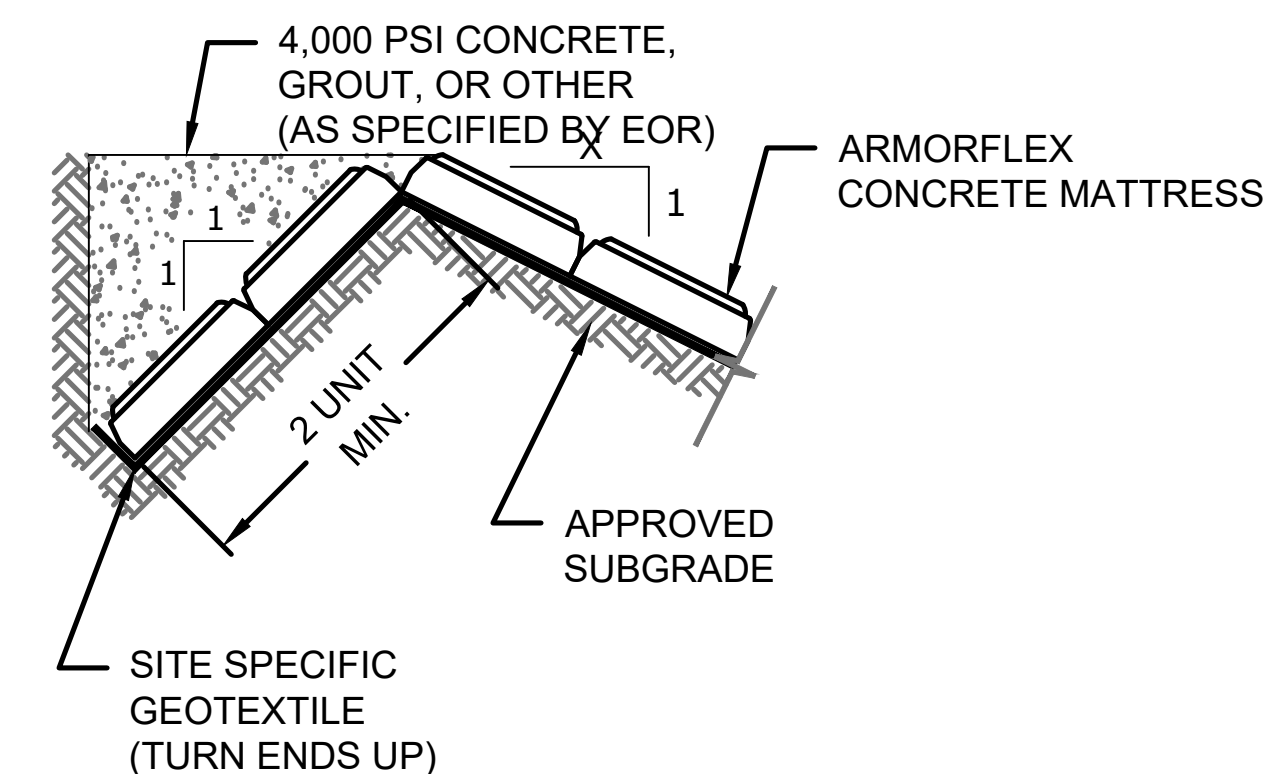
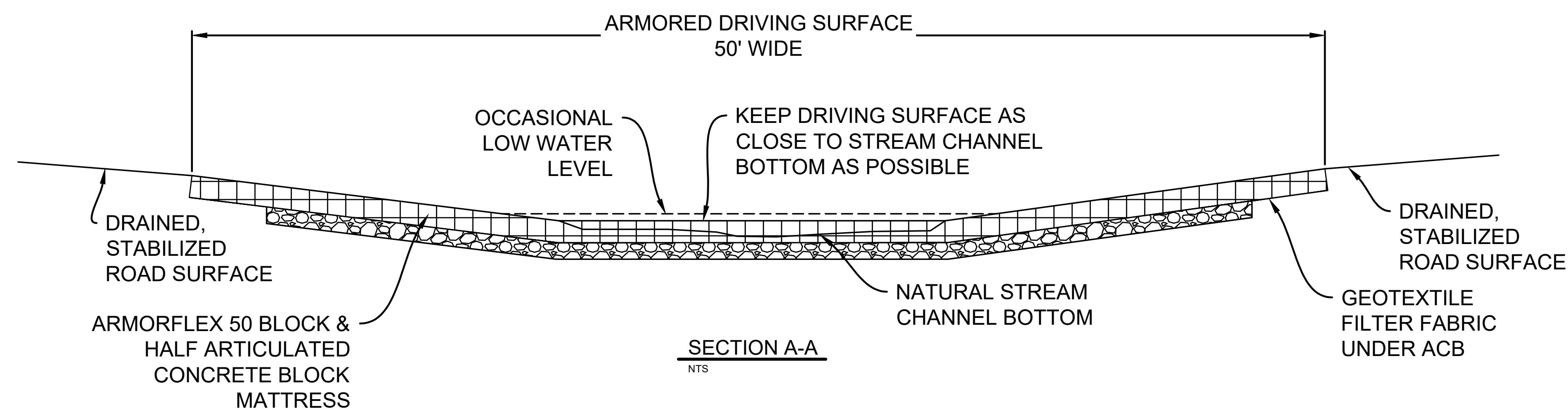
DESIGNED: C. BAILEY CADD R. LIGGETT TECH. REVIEW:	SUB SHEET NO. C43	TITLE OF SHEET HDD WATER LINE PROFILE STA 123+81.80 TO STA 169+50.00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 45 OF 55
DATE: 3/29/24			



DESIGNED: C. BAILEY R. LIGGETT TECH. REVIEW: DATE: 3/29/24	SUB SHEET NO. C44	TITLE OF SHEET WATER LINE PROFILE STA 169+00 TO STA 183+00 MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMS/PKG NO. 317500 SHEET 46 OF 55
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2 TYP. 50 - 1.5 BLOCK
NO SCALE

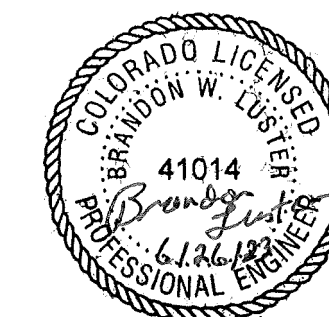


3 TOP TERMINATION
NO SCALE

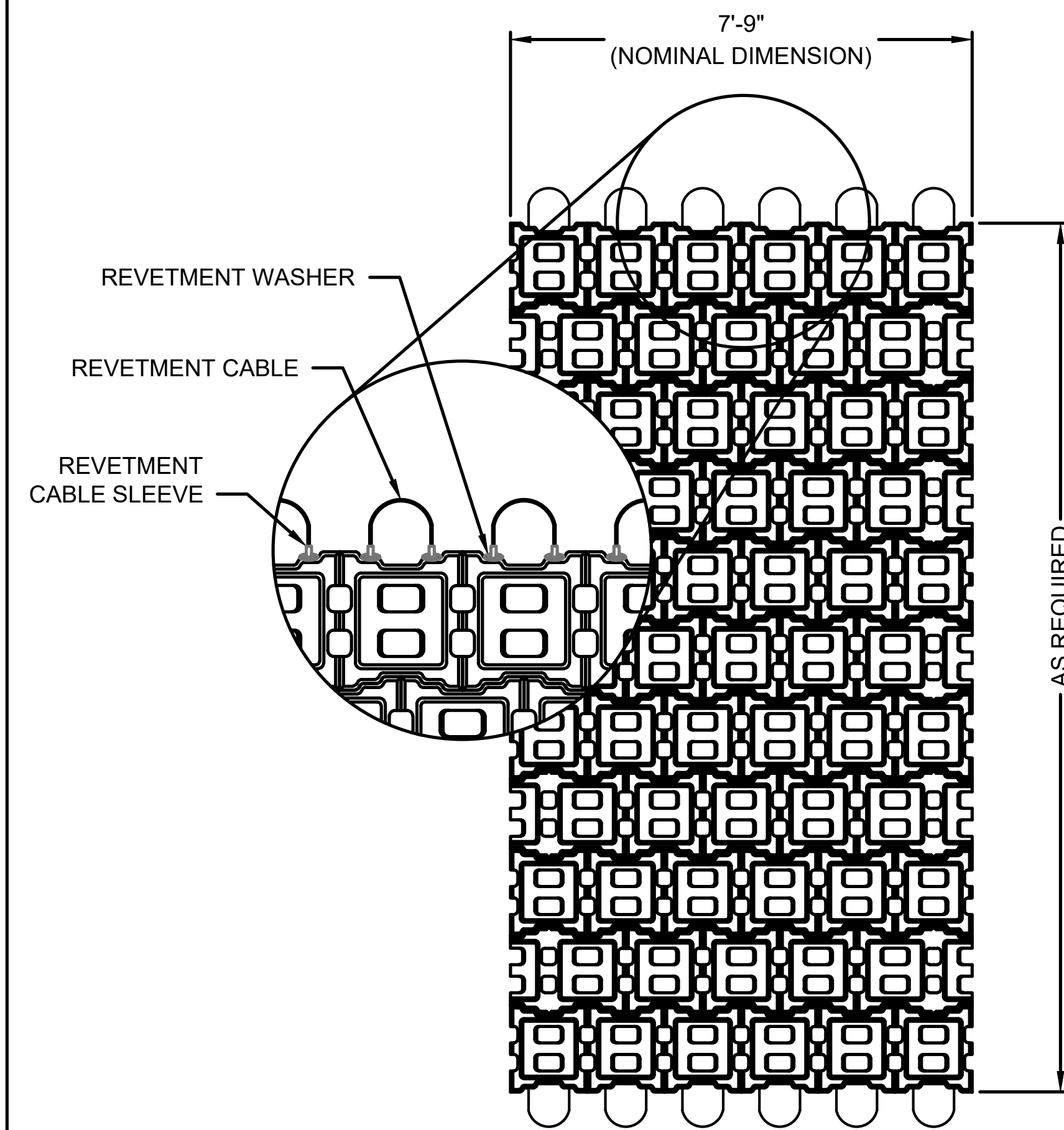
NOTES:

1. THERE IS A NATURAL SPRING/SEEP APPROXIMATELY 20' DOWNSTREAM OF THE CROSSING THAT MUST BE PROTECTED AND AVOIDED DURING CONSTRUCTION.
2. ARMORED SURFACE SHALL BE ARMORFLEX 50 BLOCK & HALF CONCRETE BLOCK (ACB) OR APPROVED EQUAL. INSTALLATION SHALL BE PER MANUFACTURER AND SUPPLIER RECOMMENDATIONS.
3. GEOTEXTILE FILTER FABRIC (CDOT CLASS 3 DRAINAGE GEOTEXTILE) SHALL BE INSTALLED UNDER THE ACB.

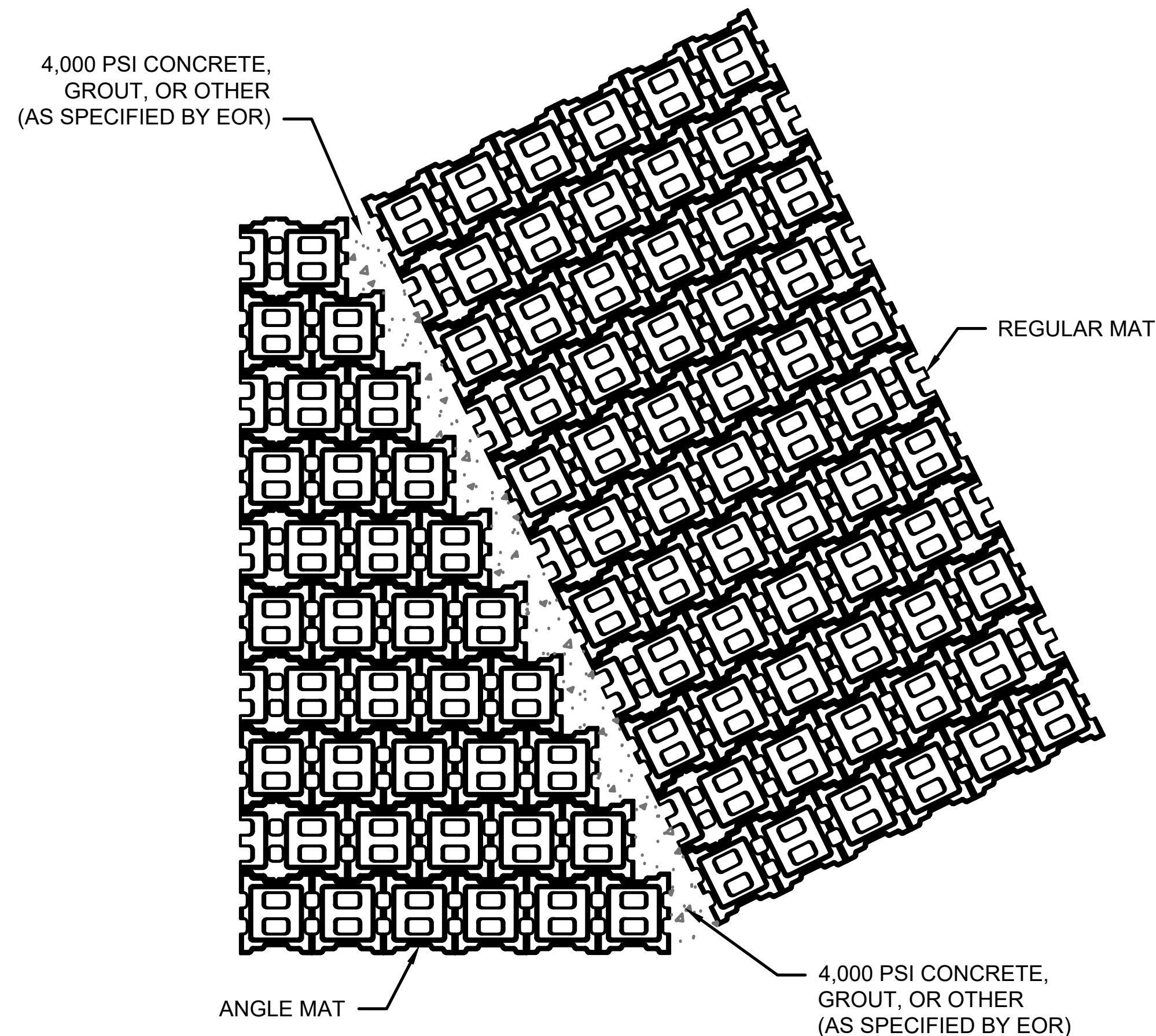
1 LOW WATER CROSSING DETAIL
NO SCALE



DESIGNED: C. BAILEY	SUB SHEET NO. C45	TITLE OF SHEET LOW WATER CROSSING DETAIL	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT		MOREFIELD CANYON MESA VERDE NATIONAL PARK	PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 47 OF 55

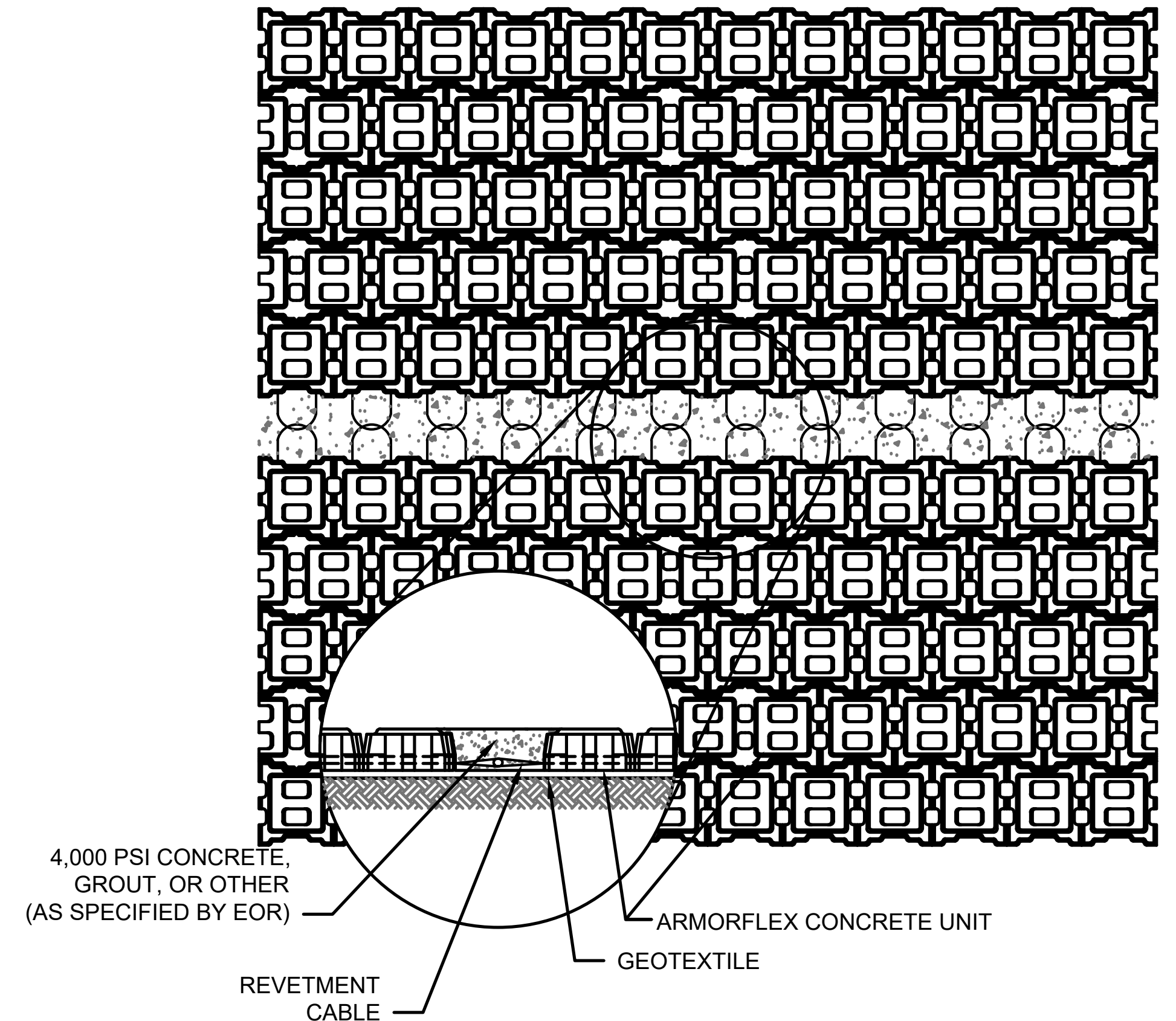


1 TYP. 50 - 1.5 MAT
NO SCALE

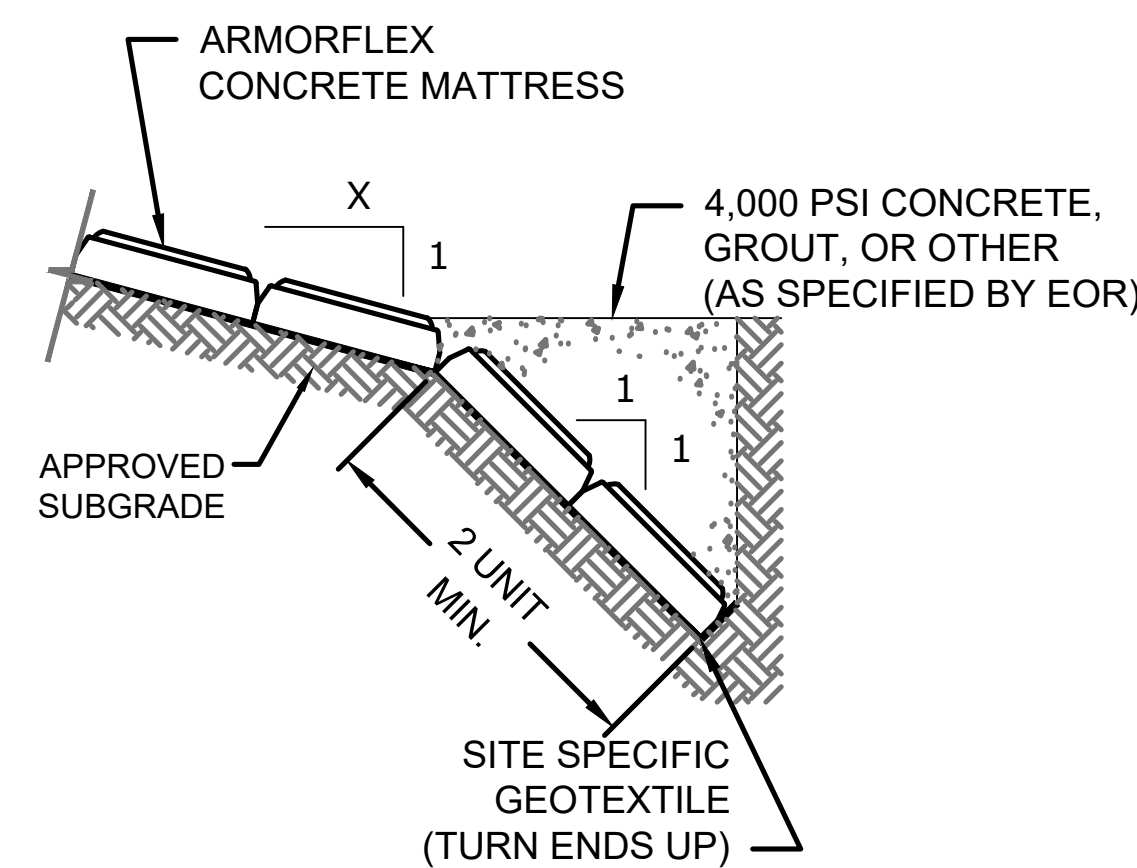


NOTE:
ANGLE MATS WILL BE CONSTRUCTED BY OMITTING THE REQUIRED UNITS SO THE REQUIRED MAT DIMENSIONS CAN BE OBTAINED.

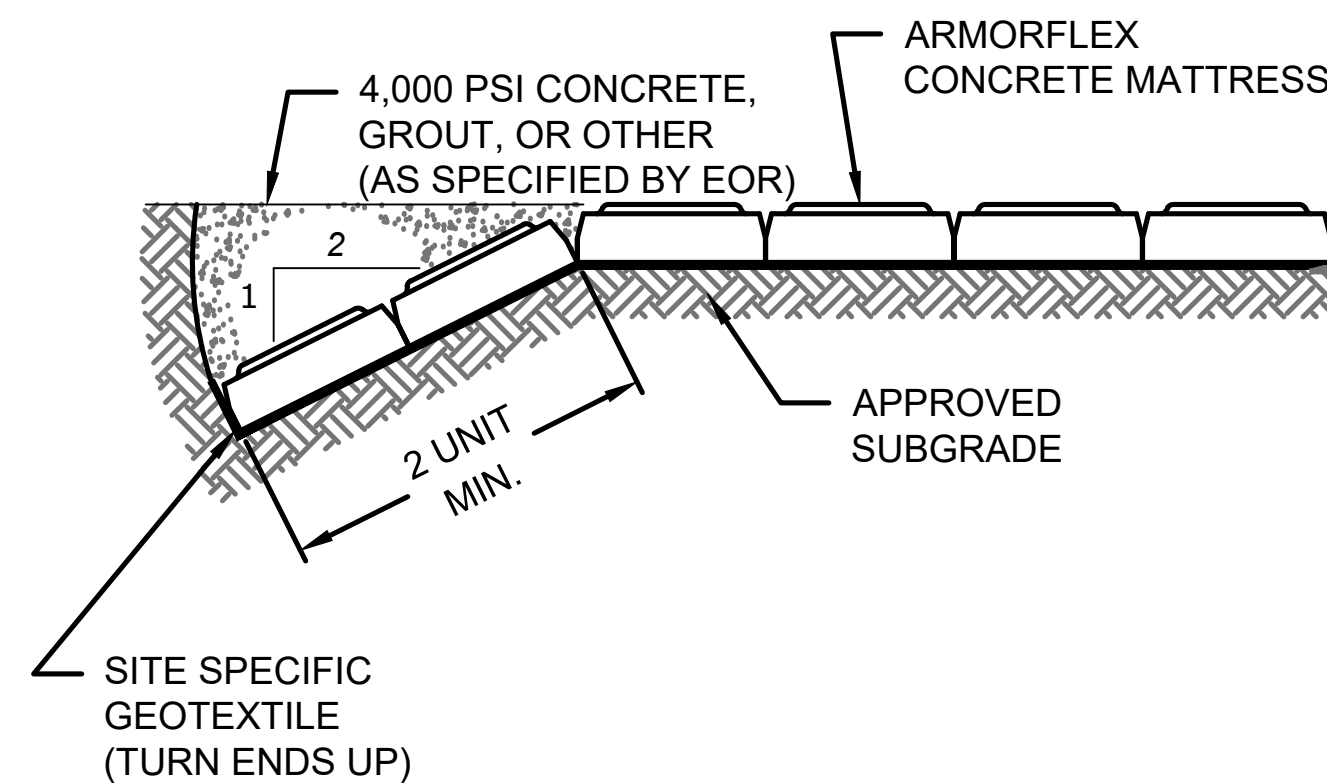
2 TYP. ANGLE MAT
NO SCALE



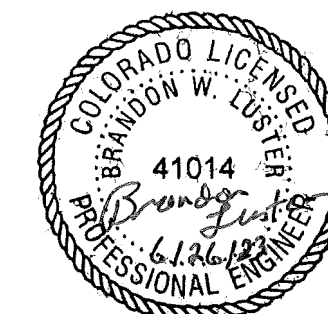
3 TYP. MAT TO MAT
NO SCALE



4 TOE TERMINATION
NO SCALE



5 FLANK TERMINATION
NO SCALE



DESIGNED: C. BAILEY	SUB SHEET NO. C46	TITLE OF SHEET LOW WATER CROSSING DETAILS	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT		MOREFIELD CANYON MESA VERDE NATIONAL PARK	PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 48 OF 55

- NOTE:
1. PIPES AND FITTINGS IN VAULTS SHALL BE FULLY RESTRAINED FOR DIFFERENTIAL PRESSURES.
 2. THE CONTRACTOR CAN PROPOSE A NOTCHED BOX SYSTEM WITH PRECAST BASE SECTION AND BARREL SECTIONS NOTCHED TO ALLOW FOR EASIER INSTALLATION OF THE PIPE SEGMENTS. ANY NOTCHES SHALL BE FILLED WITH 4500 PSI CONCRETE AND HAVE A WATERTIGHT SEALER APPLIED TO THE FINAL PENETRATION.
 3. 2" BYPASS VALVES SHALL BE CAPABLE OF OPERATION WITH THE HIGH PRESSURE IN THE WATER MAIN.

6" PRECAST CONCRETE COVER & CASTING SET IN MORTAR TO FORM LEAKPROOF SEAL.

6 OR 4 INCH LAPPED FLANGE END FITTING

6" X 2" TEE

2" 90° BEND

2" BYPASS LINE

2" BYPASS VALVE

DRAIN VALVE

6" ISOLATION VALVE

6" X 2" TEE

2" 90° BEND

6 OR 4 INCH LAPPED FLANGE END FITTING

DRAIN

9'-0"

PLAN VIEW

6" PRECAST CONCRETE COVER & CASTING SET IN MORTAR TO FORM LEAKPROOF SEAL.

VALVE BOXES INSTALLED IN LID

ROAD SURFACE

PRECAST CONCRETE JUNCTION BOX SECTION

SLOPE OF EMBANKMENT

TYPICAL ALL JOINTS SEALED WITH RUBBER O-RING GASKET IN ACCORDANCE WITH ASTM SPECIFICATION C-443 AND EXTERNAL JOINT SEALS BY NPC OR EQUAL

FLEXIBLE RUBBER BOOT W/ TWO (2) STAINLESS STEEL PIPE CLAMPS TO PROVIDE A WATER TIGHT CONNECTION.

SLOPE 0.1FT/FT

STAINLESS STEEL PIPE SUPPORT, MINIMUM 18" TO BOTTOM OF PIPE

EXTEND DRAIN PIPE AS NEEDED TO DRAIN

ALL DRAINS SHALL HAVE WEIGHTED ANGLED FLAPPER VALVES INSTALLED TO MEET USPHS RECOMMENDATIONS. (TIDEFLEX OR TROY VALVE.)

3' WIDE X 6' LONG X 1' DEEP RIP RAP (D50 OF 6") WITH DRAINAGE FABRIC AT EACH OUTLET.

18" X 18" SUMP
18" MIN DEPTH
1" CLEAN ROCK

SECTION

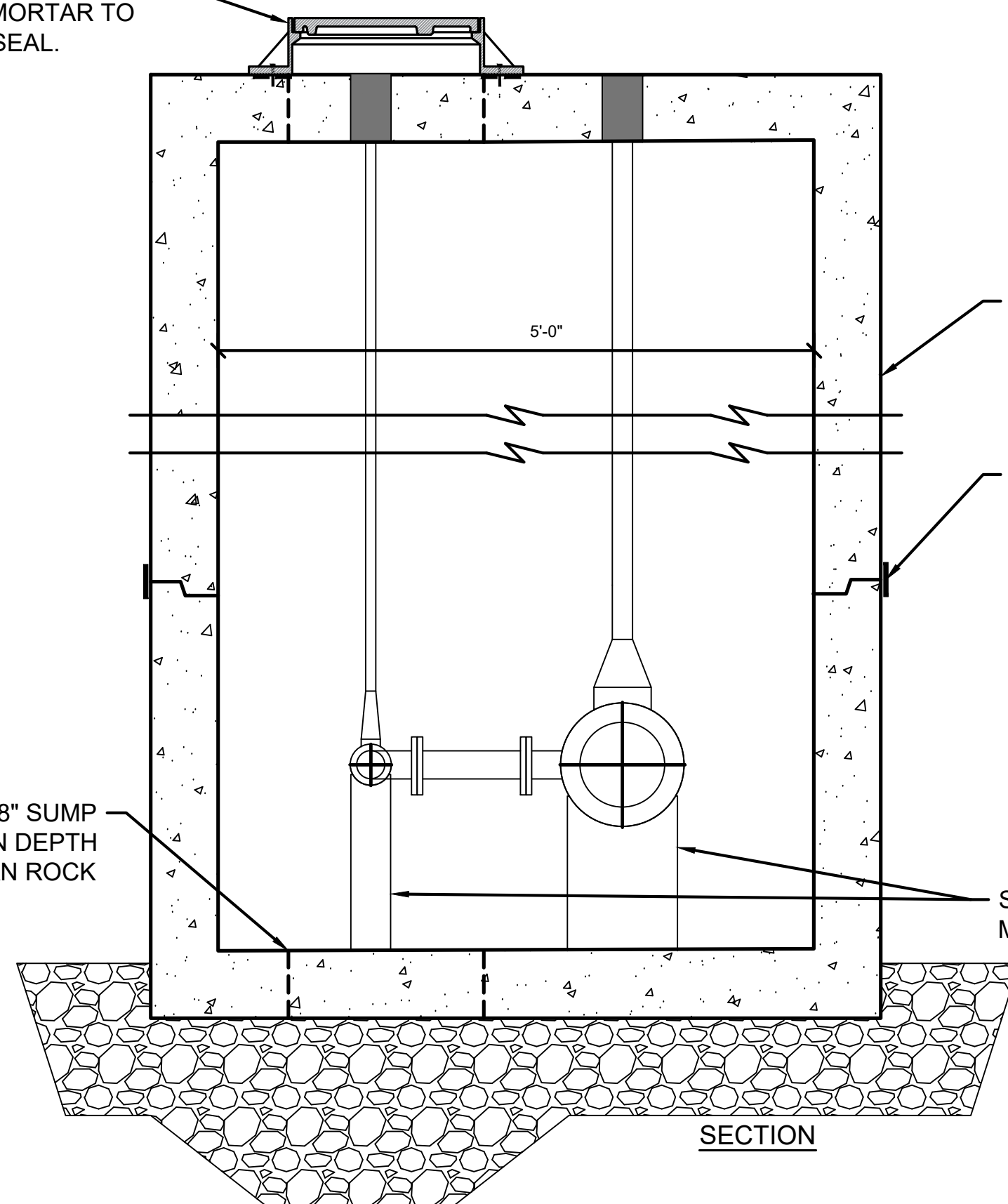
ISOLATION & DRAIN VALVE VAULT DETAIL
NOT TO SCALE



DESIGNED: C. BAILEY R. LIGGETT TECH. REVIEW:	SUB SHEET NO. C47	TITLE OF SHEET ISOLATION & DRAIN VALVE VAULT DETAIL MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605 PMIS/PKG NO. 317500 SHEET 49 OF 55
DATE: 3/29/24			

6" PRECAST CONCRETE COVER & CASTING SET IN MORTAR TO FORM LEAKPROOF SEAL.

18" X 18" SUMP
18" MIN DEPTH
1" CLEAN ROCK



PRECAST CONCRETE
JUNCTION BOX SECTION

TYPICAL ALL JOINTS SEALED WITH RUBBER O-RING
GASKET IN ACCORDANCE WITH ASTM
SPECIFICATION C-443 AND EXTERNAL JOINT SEALS
BY NPC OR EQUAL

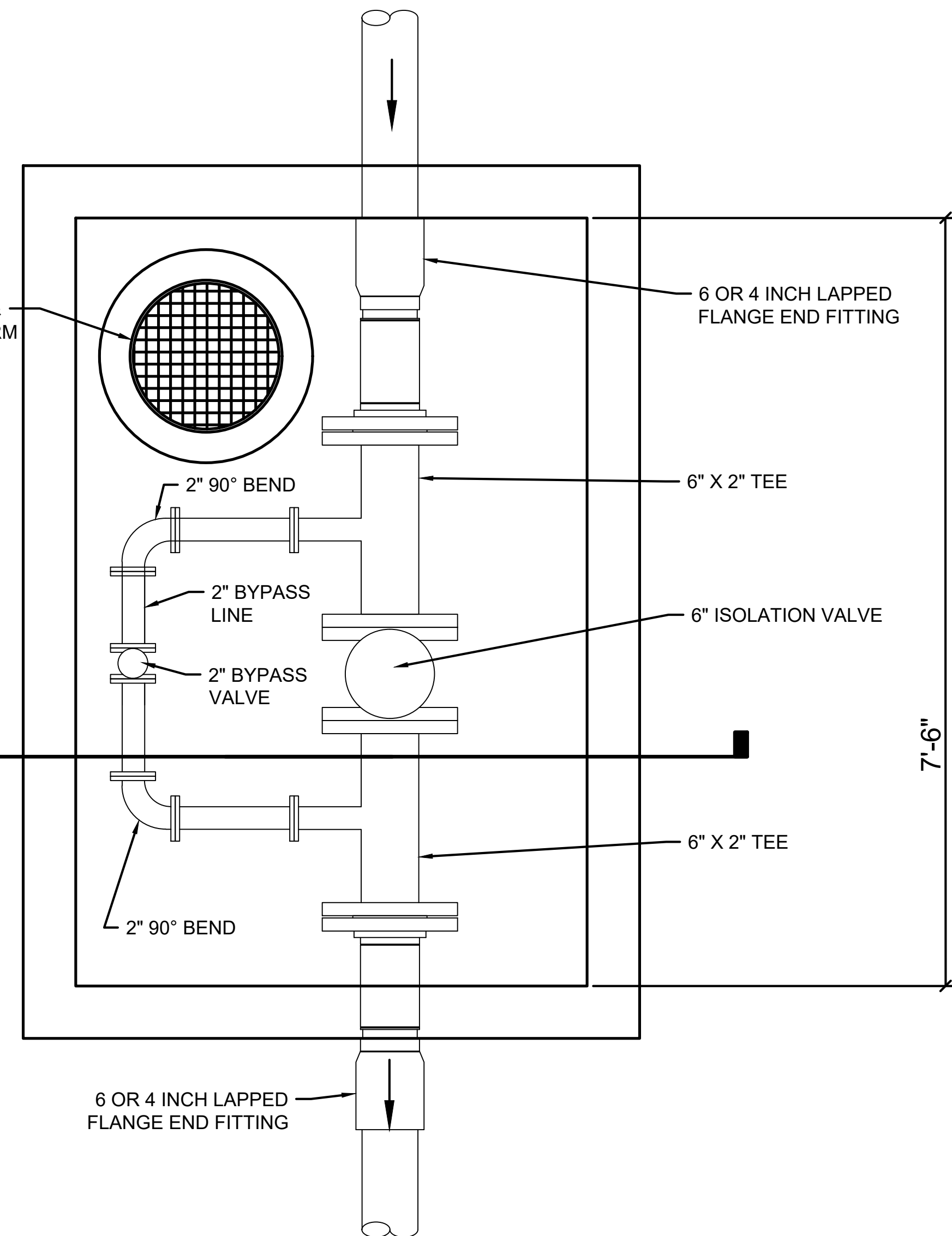
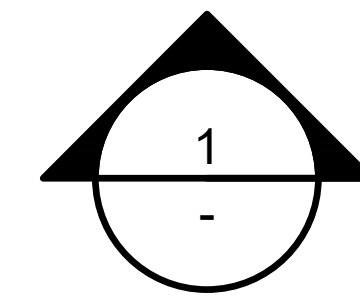
STAINLESS STEEL PIPE SUPPORT,
MINIMUM 18" TO BOTTOM OF PIPE

SECTION

NOTE:

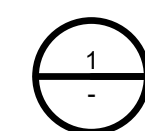
1. PIPES AND FITTINGS IN VAULTS SHALL BE FULLY RESTRAINED FOR DIFFERENTIAL PRESSURES.
2. VALVE VAULTS CAN BE EITHER RECTANGULAR/SQUARE AS SHOWN OR 72" ROUND MANHOLES PENDING APPROVED SHOP DRAWINGS.
3. THE CONTRACTOR CAN PROPOSE A NOTCHED BOX SYSTEM WITH PRECAST BASE SECTION AND BARREL SECTIONS NOTCHED TO ALLOW FOR EASIER INSTALLATION OF THE PIPE SEGMENTS. ANY NOTCHES SHALL BE FILLED WITH 4500 PSI CONCRETE AND HAVE A WATERTIGHT SEALER APPLIED TO THE FINAL PENETRATION.

6" PRECAST CONCRETE COVER & CASTING SET IN MORTAR TO FORM LEAKPROOF SEAL.

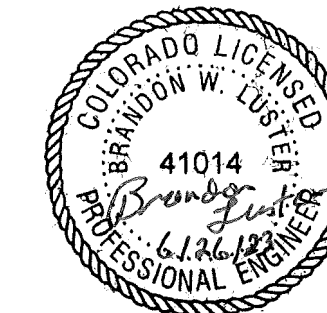


6 OR 4 INCH LAPPED
FLANGE END FITTING

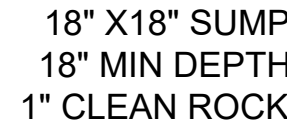
PLAN VIEW



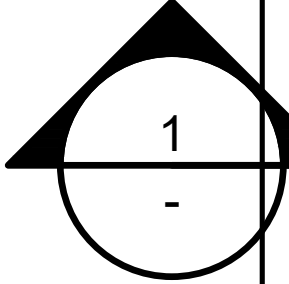
ISOLATION VALVE VAULT DETAIL
NOT TO SCALE



DESIGNED: C. BAILEY	SUB SHEET NO. C48	TITLE OF SHEET ISOLATION VALVE VAULT DETAIL	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT		MOREFIELD CANYON MESA VERDE NATIONAL PARK	PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 50 OF 55



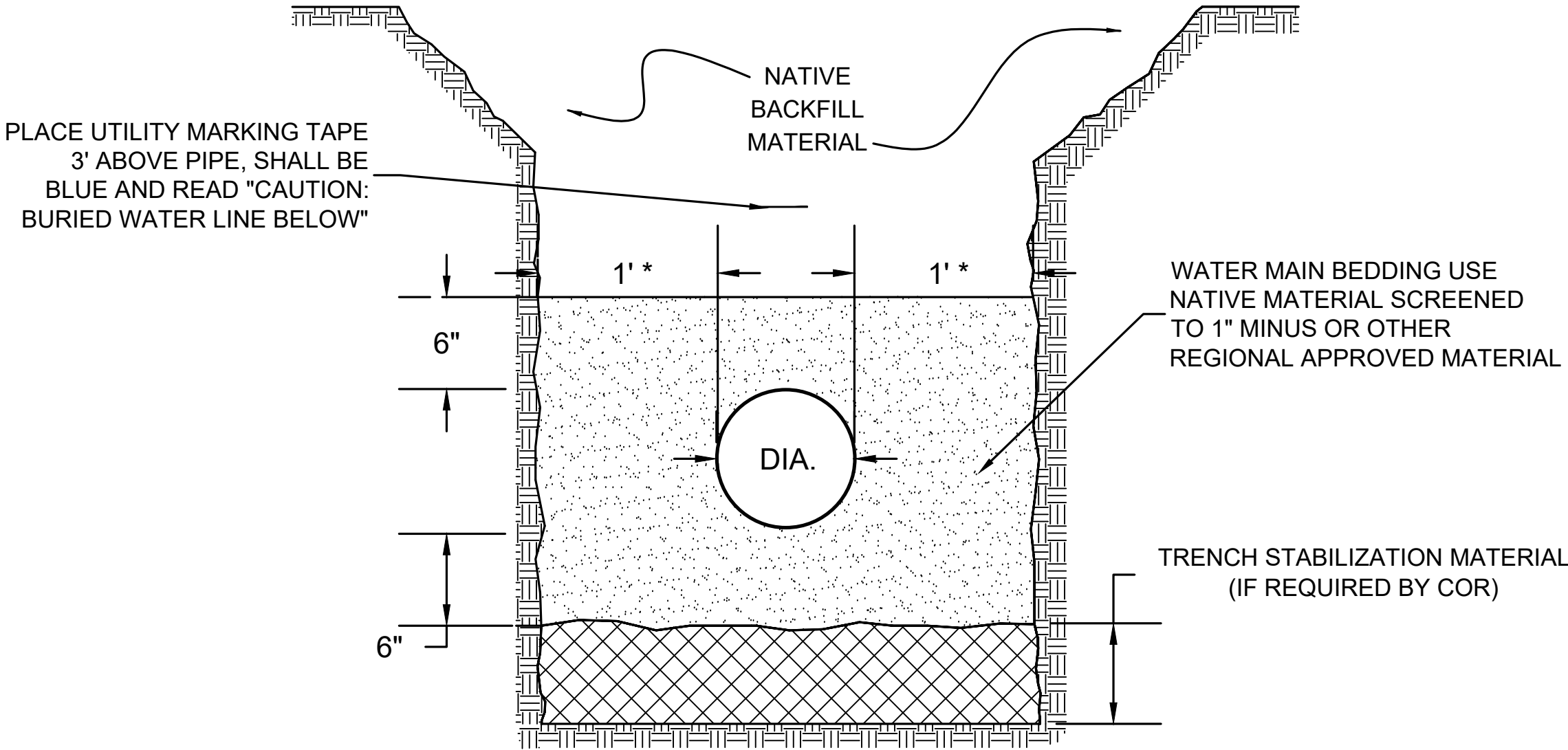
1. PIPES AND FITTINGS IN VAULTS SHALL BE FULLY RESTRAINED FOR DIFFERENTIAL PRESSURES.
2. VALVE VAULTS CAN BE EITHER RECTANGULAR/SQUARE AS SHOWN OR 72" ROUND MANHOLES PENDING APPROVED SHOP DRAWINGS.
3. THE CONTRACTOR CAN PROPOSE A NOTCHED BOX SYSTEM WITH PRECAST BASE SECTION AND BARREL SECTIONS NOTCHED TO ALLOW FOR EASIER INSTALLATION OF THE PIPE SEGMENTS. ANY NOTCHES SHALL BE FILLED WITH 4500 PSI CONCRETE AND HAVE A WATERTIGHT SEALER APPLIED TO THE FINAL PENETRATION.



ISOLATION VALVE & 90° BEND VAULT



DESIGNED:	SUB SHEET NO. C49	TITLE OF SHEET WATER LINE DETAILS MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO.
C. BAILEY			307
CADD			176605
R.LIGGETT			PMIS/PKG NO.
TECH. REVIEW:			317500
DATE:			SHEET
3/29/24			51 of 55



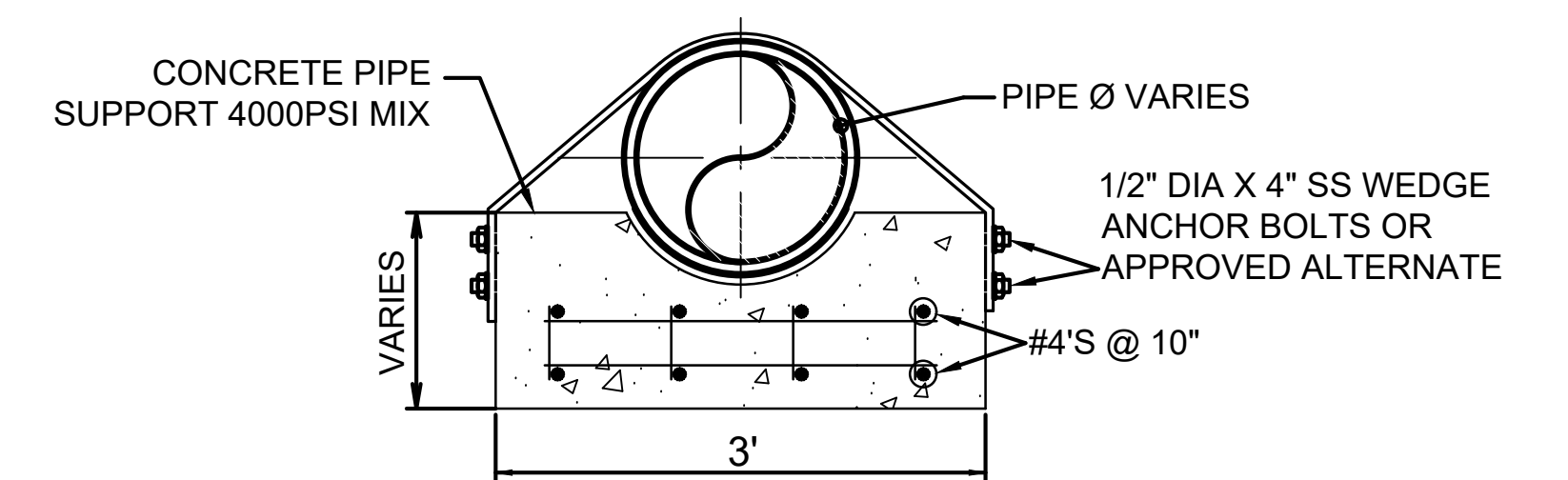
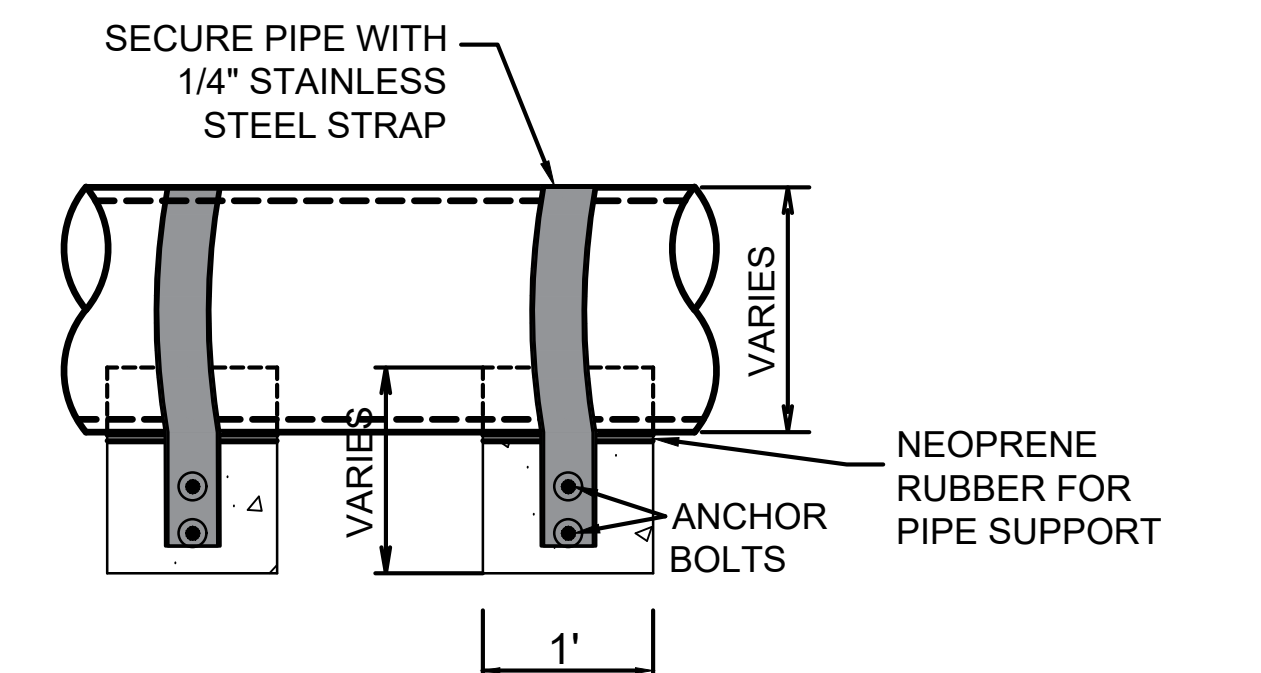
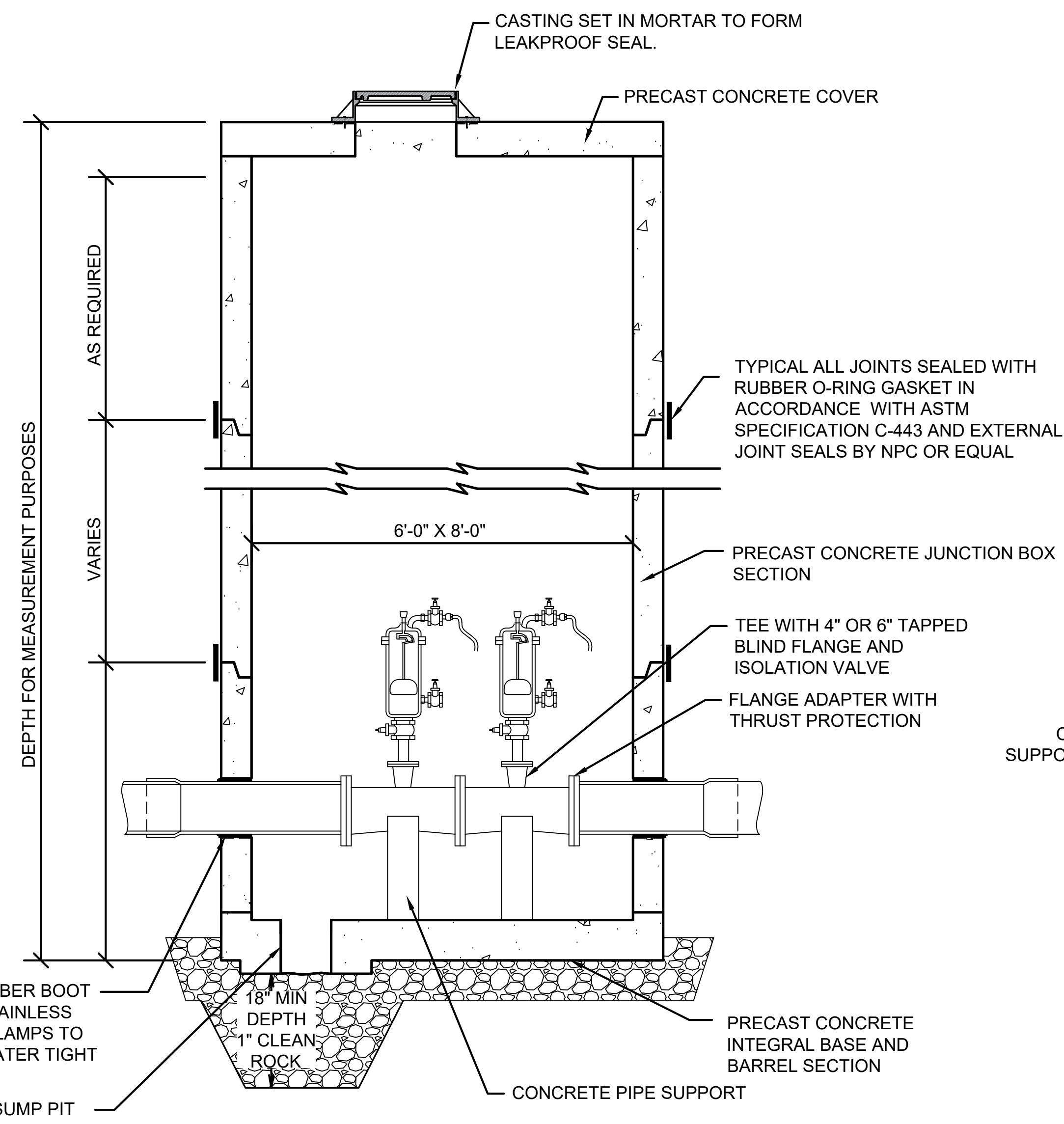
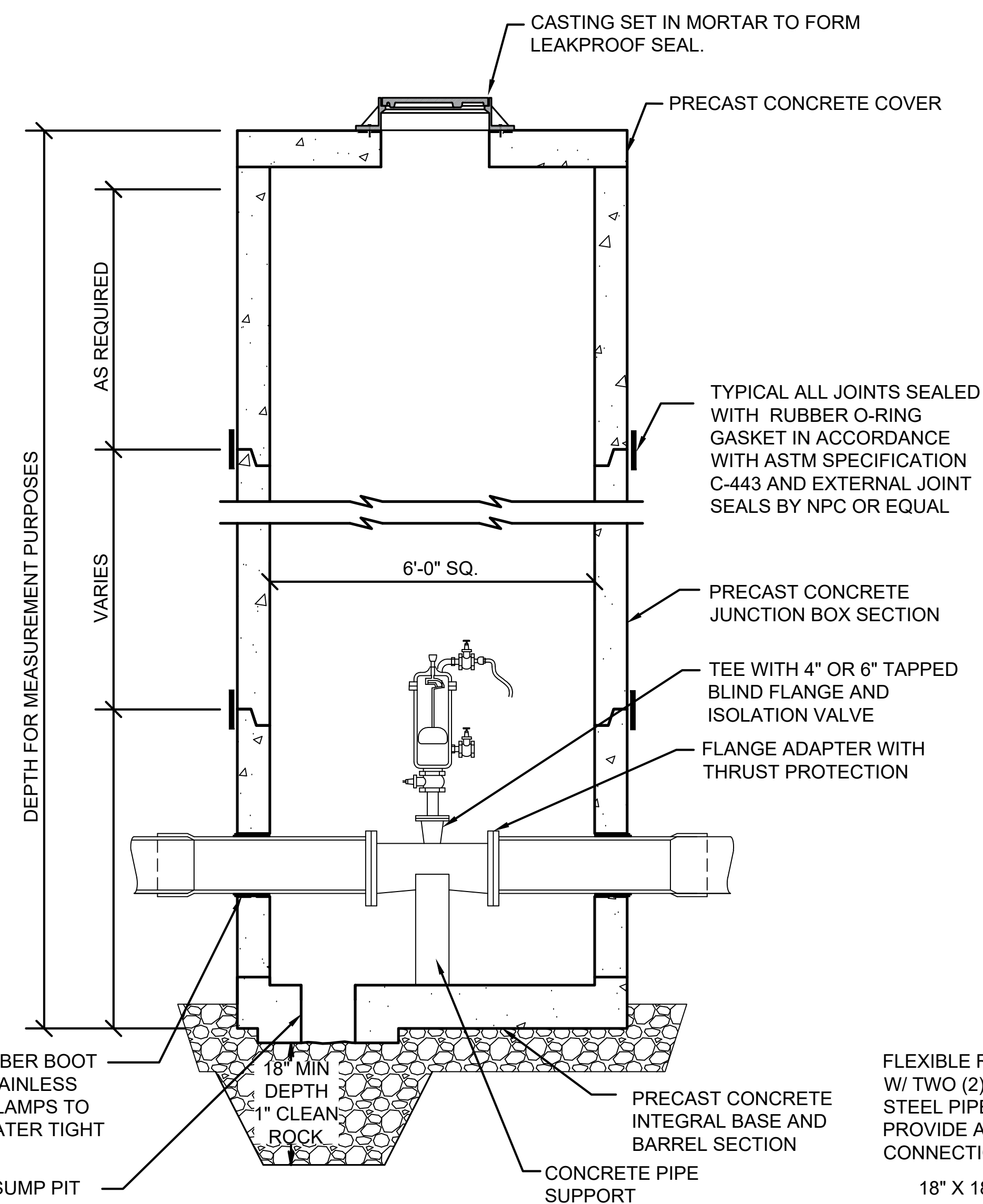
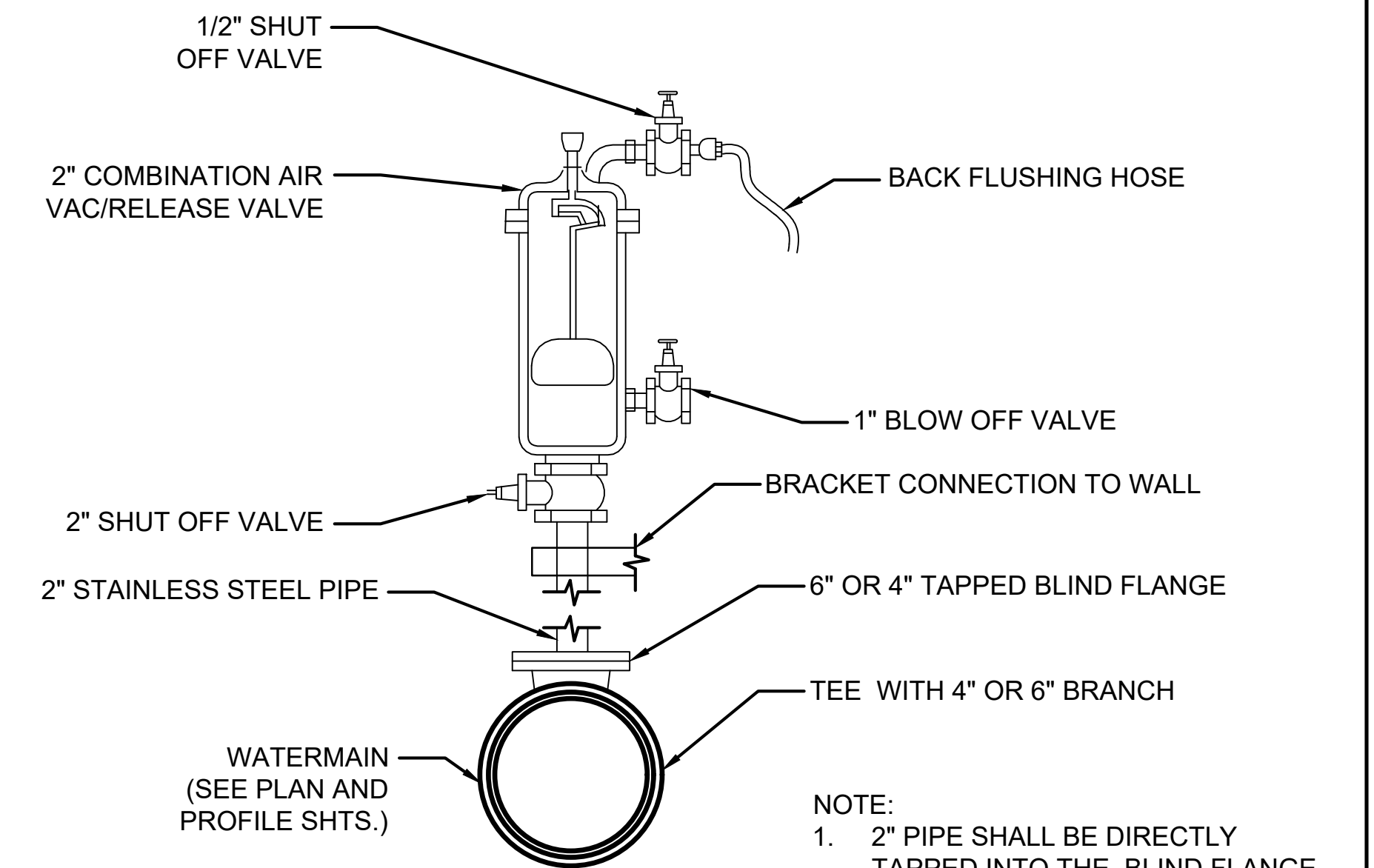
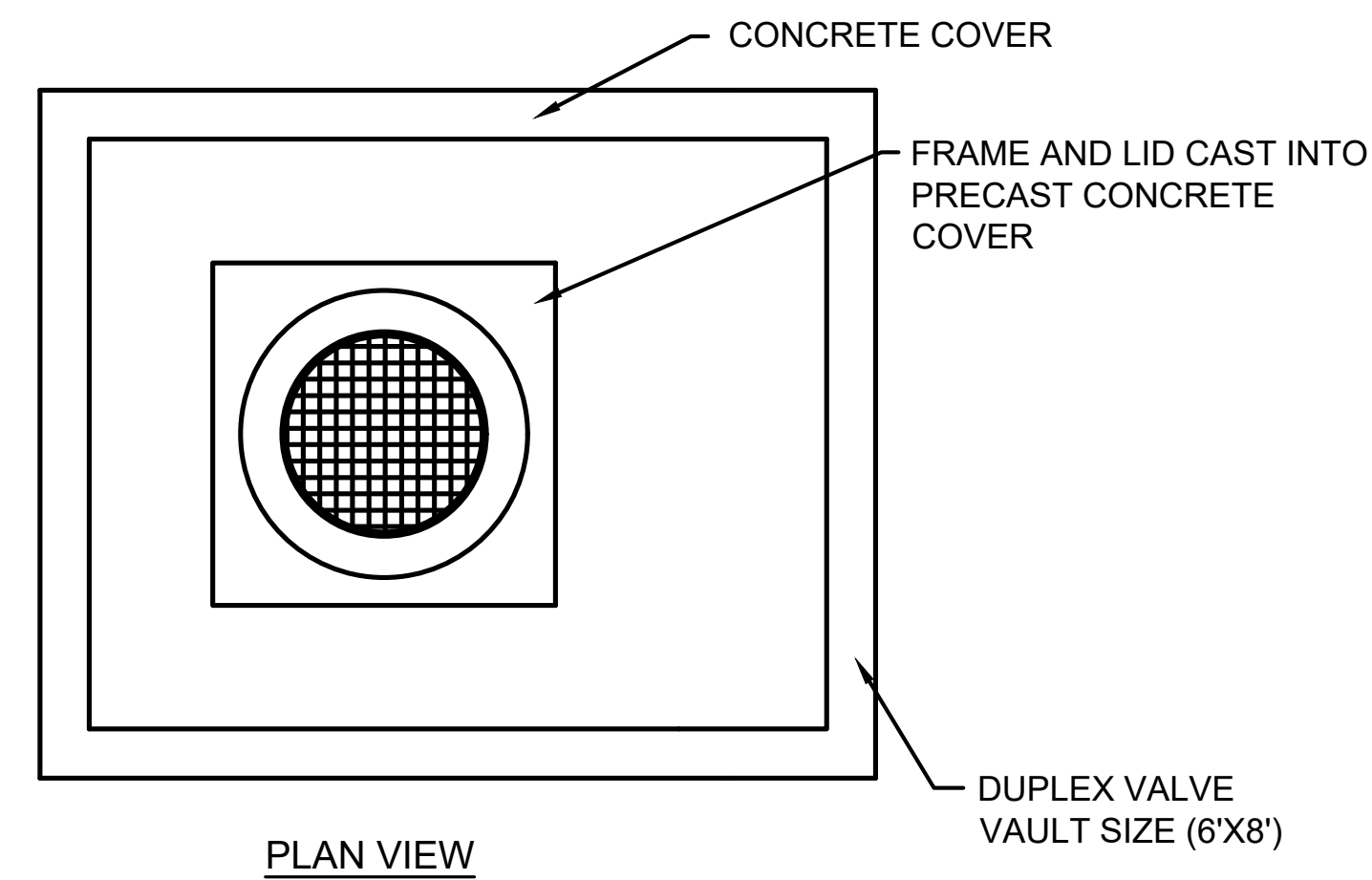
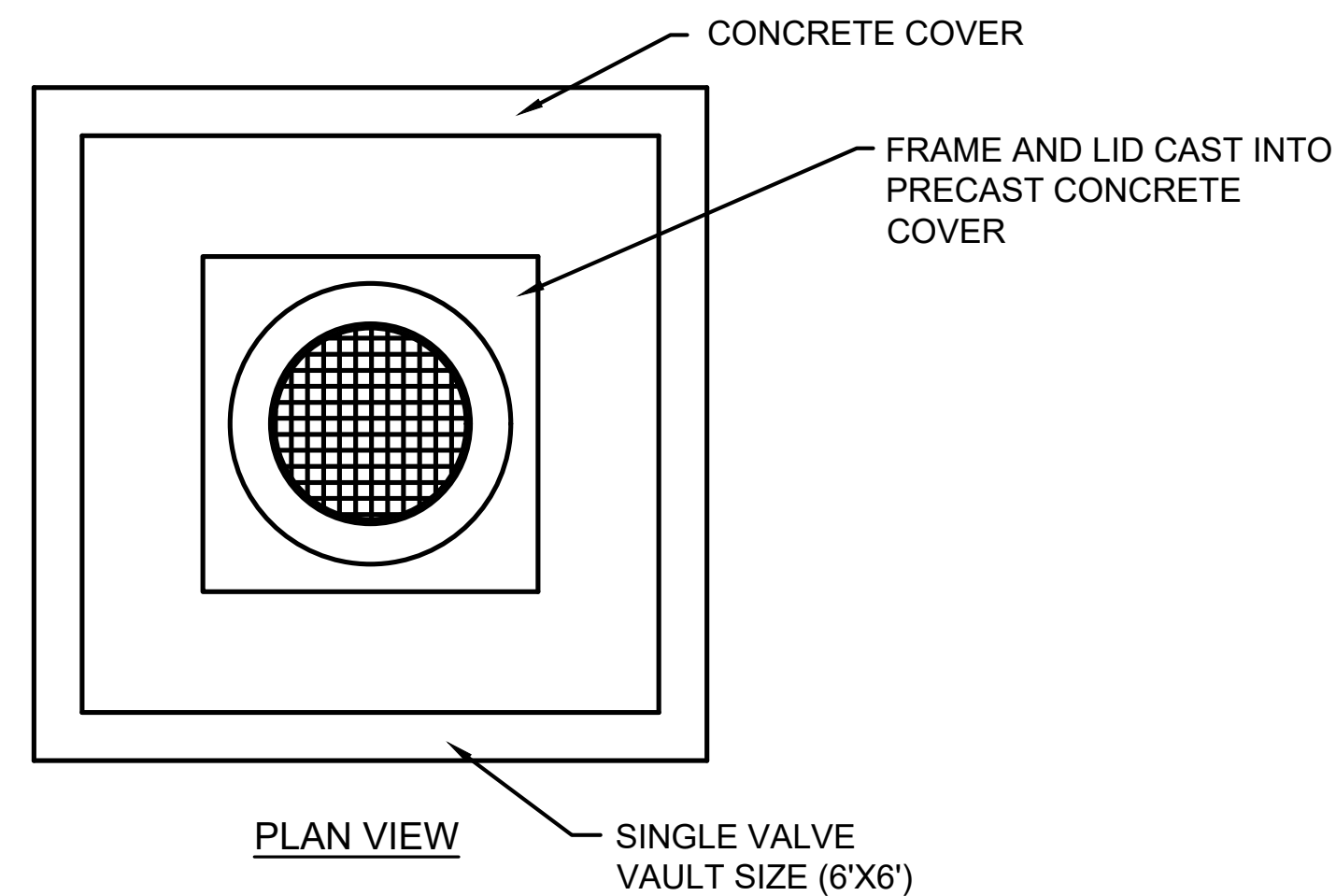
WORK IS LIMITED TO 30' ON EITHER SIDE OF THE PROPOSED WATERLINE, WITHIN 5' OF NEW PAVEMENT, OR AT THE EDGE OF EXISTING GRAVEL ROAD. SEE PLANS FOR SPECIFIC LOCATIONS. CONTRACTOR SHALL KEEP ALL SOIL FROM TRENCH EXCAVATION WITHIN THE WORK LIMITS.

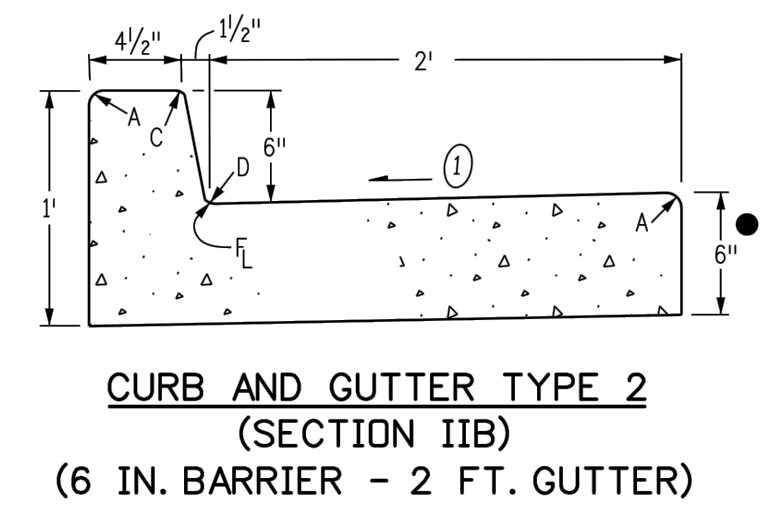
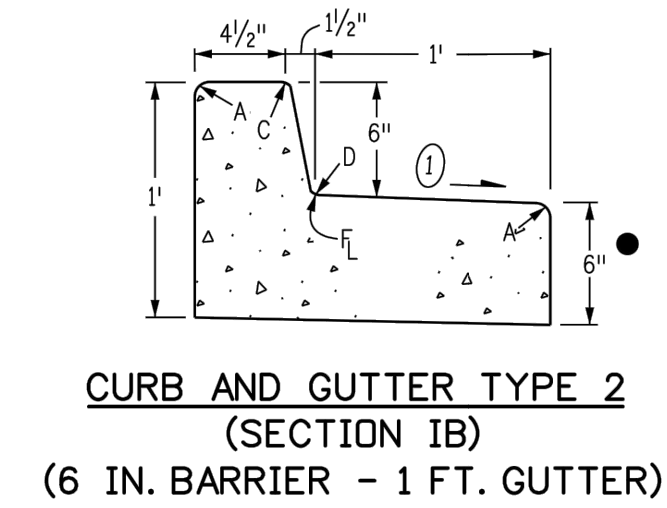
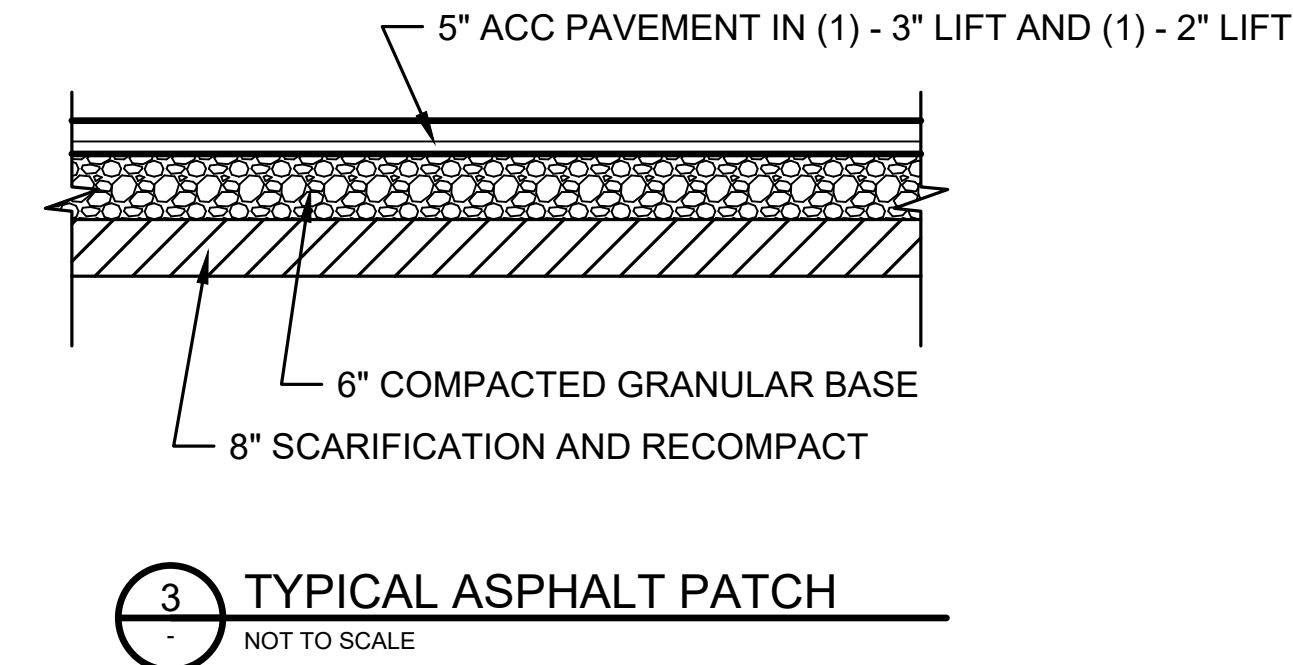
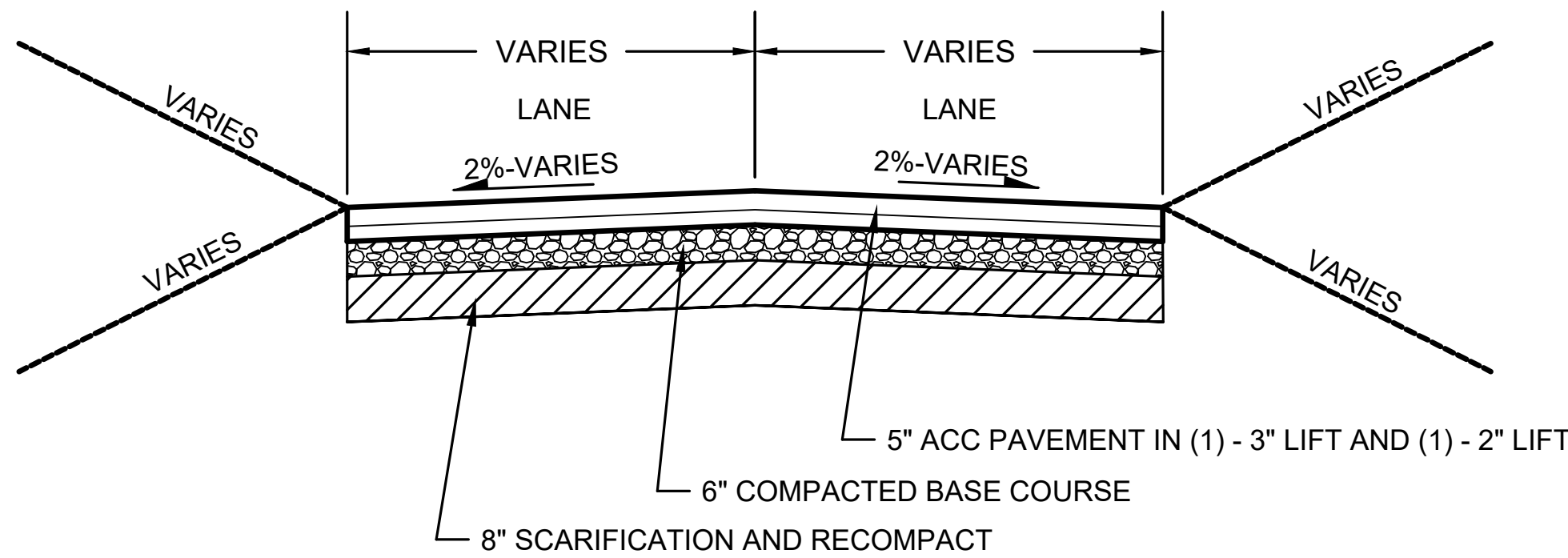
PIPE SIZE DIAMETER	TRENCH WIDTH	TRENCH HEIGHT	TRENCH AREA	PIPE AREA	WATER MAIN BEDDING MAT. AREA	WATER MAIN BEDDING MAT. TONS/LF
4"	28"	16"	3.11 Sq.Ft.	.09 Sq.Ft.	3.02 Sq.Ft.	0.21
6"	30"	18"	3.75 Sq.Ft.	.20 Sq.Ft.	3.55 Sq.Ft.	0.25

* LENGTH BASED ON ONE (1) FOOT OF MAIN.

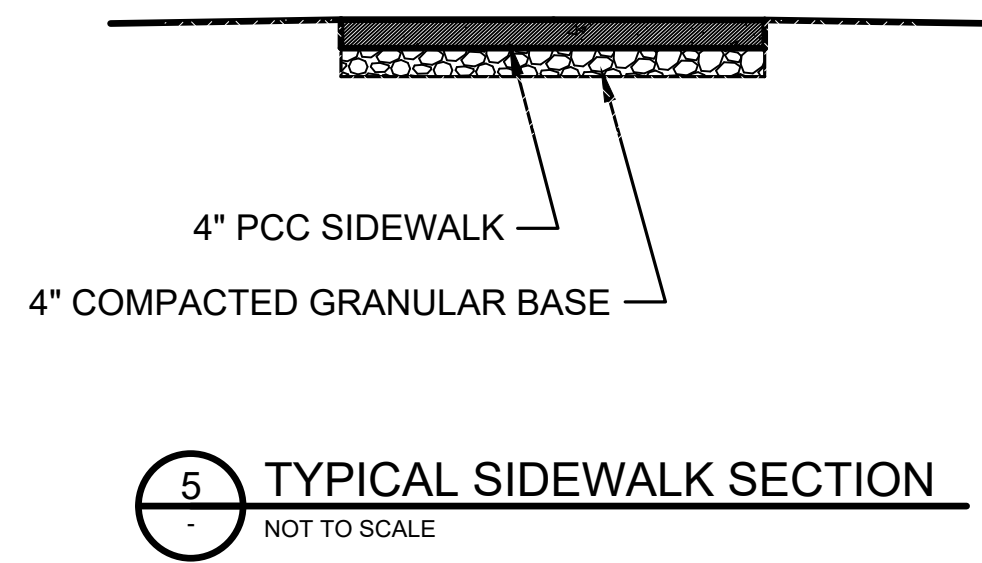
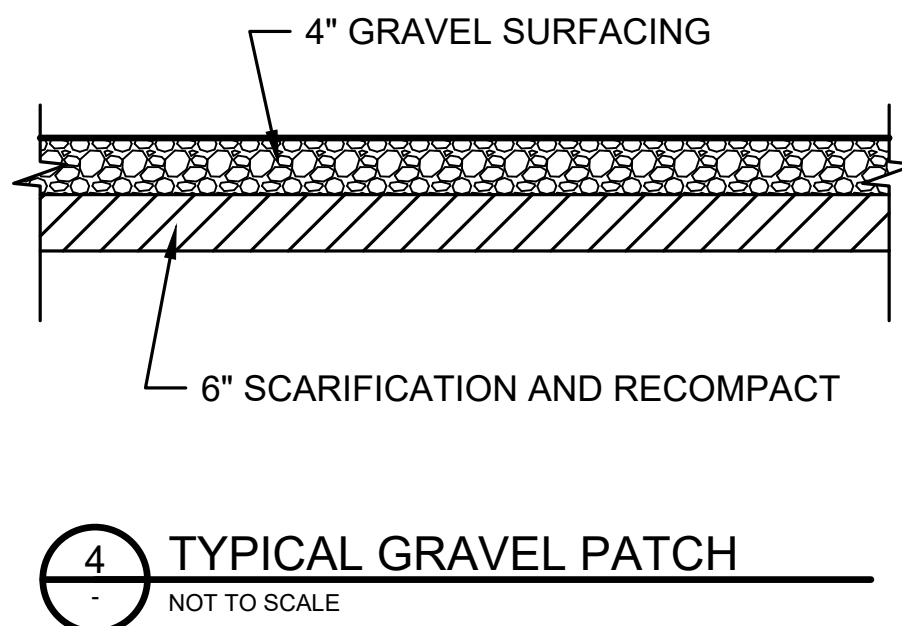
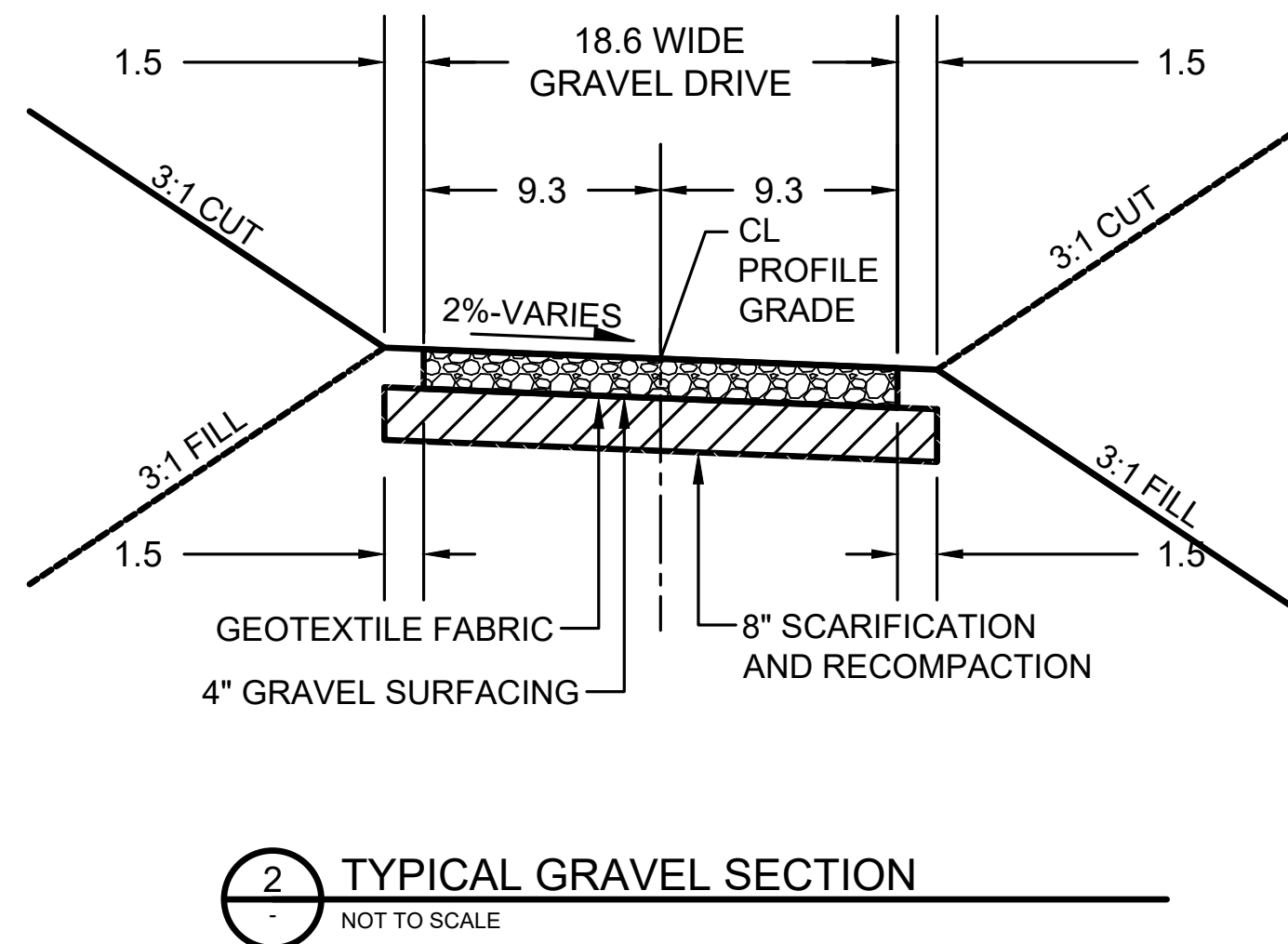
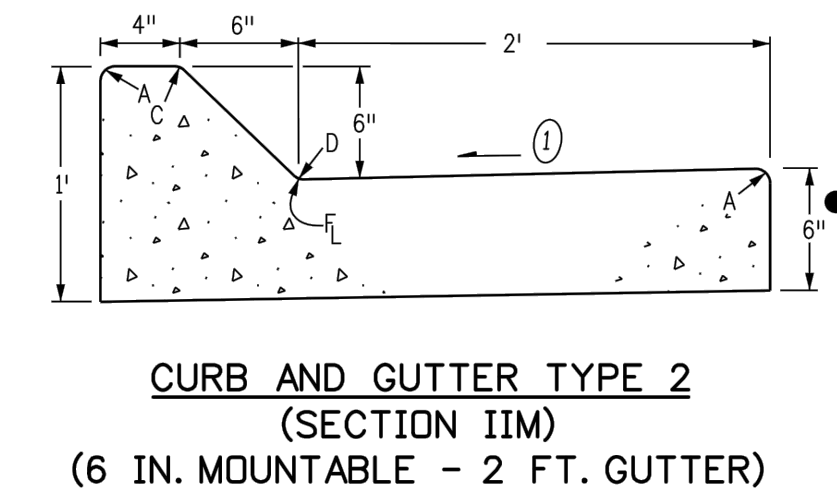
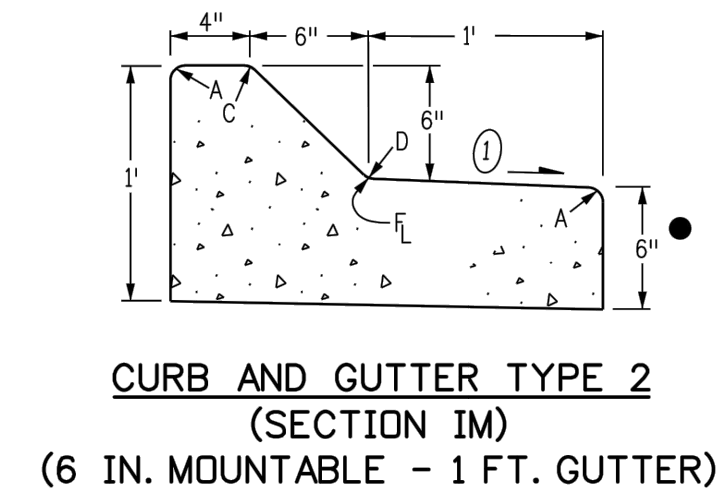


DESIGNED: C. BAILEY	SUB SHEET NO. C50	TITLE OF SHEET WATER LINE DETAILS MOREFIELD CANYON MESA VERDE NATIONAL PARK	DRAWING NO. 307 176605
TECH. REVIEW: R.LIGGETT			PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 52 OF 55

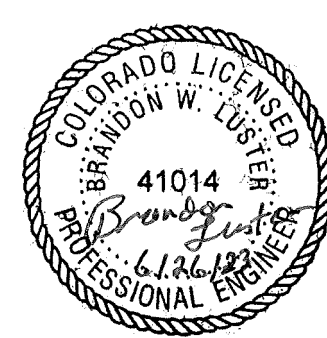
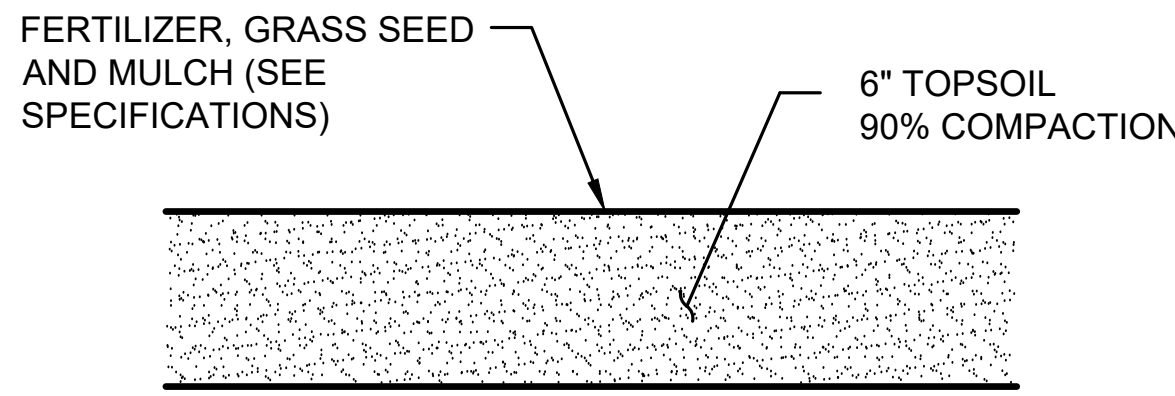




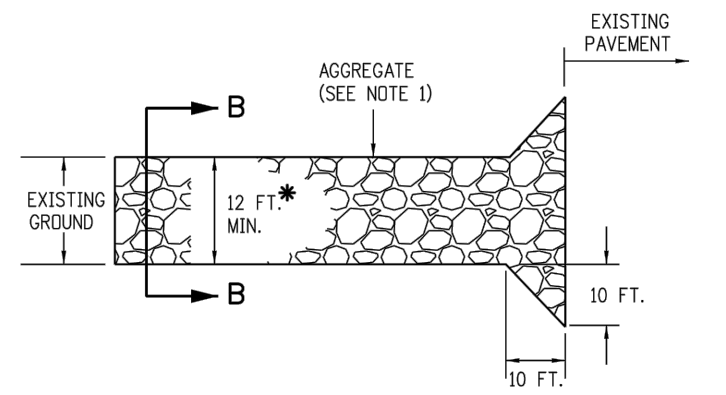
LEGEND FOR RADII	
A	= 5/8" TO 1/4"
B	= 1"
C	= 1 1/2"
D	= 1 1/2" TO 2"



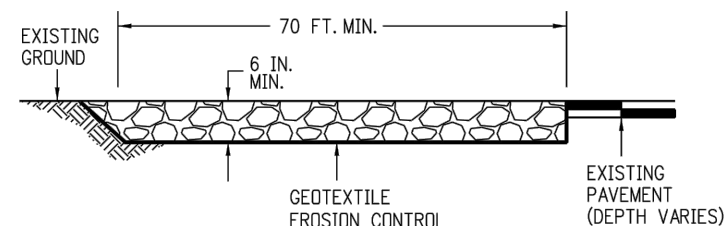
- GENERAL NOTES
- ON ROADWAY CURVES WI A RADIUS OF 1,900 FT. OR LESS, CURBS AND GUTTERS ARE TO BE PLACED ON T HE ARC OF THE CURE, UNLESS OTHERWISE NOTED ON THE PLANS. A MAXIMUM CHORD LENGTH OF 10 FT. MAY BE USED WHEN THE CURVE RADIUS IS GREATER THAN 1,900 FT.
 - CONCRETE SHALL BE CLASS B.
 - PROFILE GRADE OF CURBS AND GUTTERS SHALL BE LOCATED AT THE FLOW LINE.
 - CURB TYPE 4 (KEY-WAY) MAY BE USED IN LIEU OF CURB AND GUTTER TYPE 2 (SECTIONS IB AND IM) UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 - GUTTER CROSS SLOPES MAY BE ADJUSTED TO FACILITATE DRAINAGE FOR PROFILE GRADES AS SHOWN ON THE PLANS.
 - THICKNESS OF CURB AND GUTTER SECTION SHALL MATCH CONCRETE PAVEMENT THICKNESS IF SHOWN ON THE PLANS, CURB AND GUTTER SHALL BE CLASS P CONCRETE IF PLACED MONOLITHICALLY WITH CONCRETE PAVEMENT.
 - INCREASE SIDEWALK THICKNESS TO 6 IN. AT LOCATIONS SHOWN IN THE PLANS.
 - MINIMUM SIDEWALK WIDTH IS 4 FT.
- GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB (WITH EXCEPTION TO IMMEDIATELY ADJACENT TO CURB RAMPS - SEE STANDARD PLAN M-608-1 FOR SLOPE REQUIREMENTS.
- ⑦ WHEN TIE BARS ARE REQUIRED, THE GUTTER THICKNESS SHALL BE INCREASED TO THE PAVEMENT THICKNESS (T). BARS SHALL BE EPOXY-COATED #4 CONFORMING TO AASHTO M 248 AND SPACED AT 3 FT. INTERVALS. THEY SHALL BE INSERTED T/2 AND 1/2 LENGTH INTO THE GUTTER.



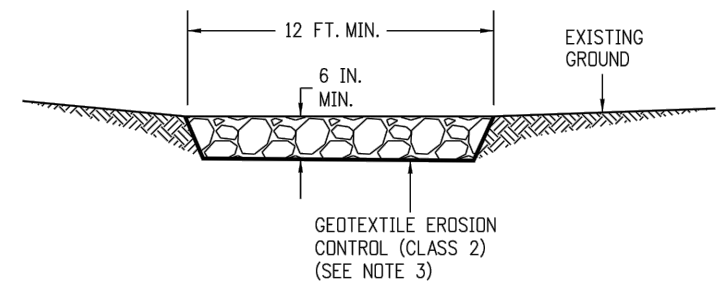
DESIGNED: C. BAILEY	SUB SHEET NO. C52	TITLE OF SHEET TYPICAL SECTIONS	DRAWING NO. 307 176605
TECH. REVIEW: R. LIGGETT		MOREFIELD CANYON MESA VERDE NATIONAL PARK	PMIS/PKG NO. 317500
DATE: 3/29/24			SHEET 54 OF 55



PLAN VIEW



ELEVATION SECTION



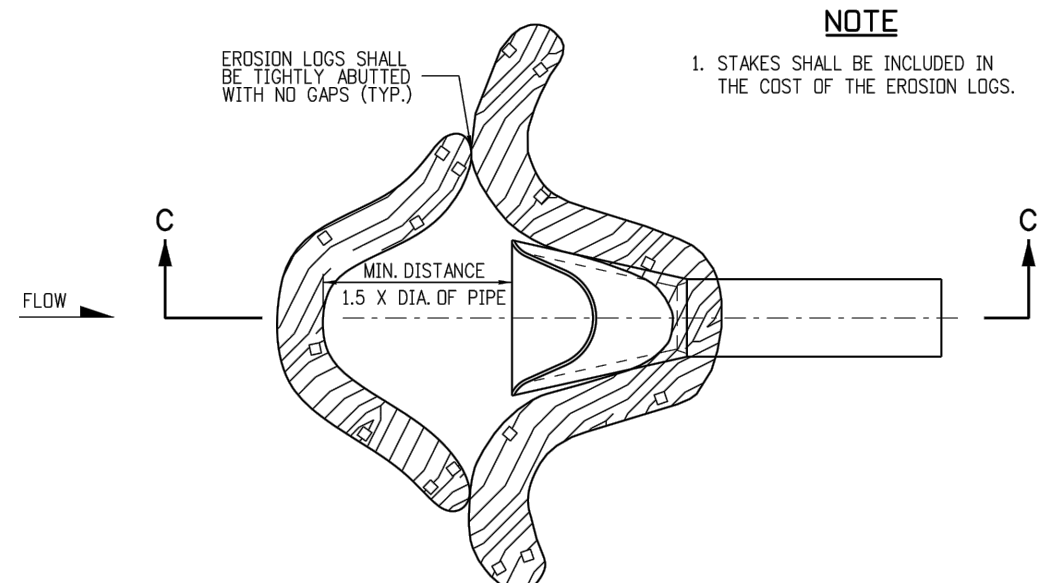
SECTION B-B

- NOTES:
1. AGGREGATE SHALL CONFORM TO SUBSECTION 208.02 (I).
 2. THE CONTRACTOR SHALL PROTECT CURB AND GUTTER THAT CROSSES THE ENTRANCE FROM DAMAGE, WHILE NOT BLOCKING FLOW OF WATER THRU STRUCTURE. PROTECTION OF THE CURB AND GUTTER SHALL BE INCLUDED IN THE COST OF WORK AND NOT PAID FOR SEPARATELY.
 3. GEOTEXTILE SHALL CONFORM TO SUBSECTION 712.08.
 4. ALL MATERIALS AND LABOR TO COMPLETE THE VEHICLE TRACKING PAD SHALL BE INCLUDED IN THE COST OF WORK AND NOT PAID FOR SEPARATELY.
 5. THE PAY ITEM NUMBER FOR VEHICLE TRACKING PAD (EACH) IS 208-00070.

1

VEHICLE TRACKING PAD

NO SCALE



PLAN VIEW

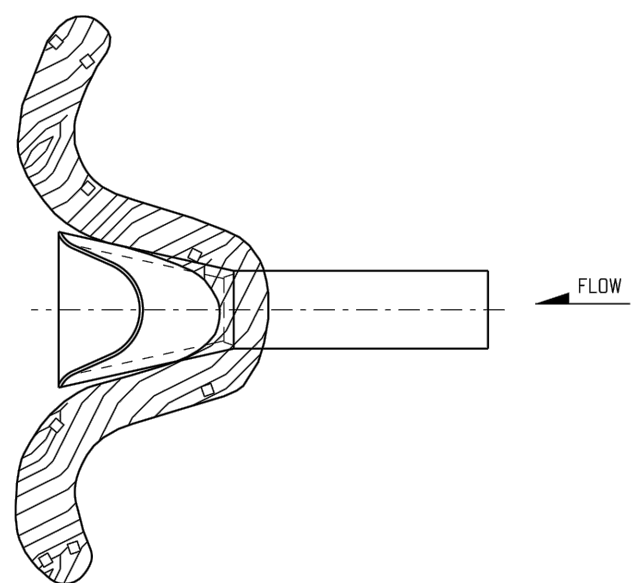


SECTION C-C

2

CULVERT INLET PROTECTION

NO SCALE

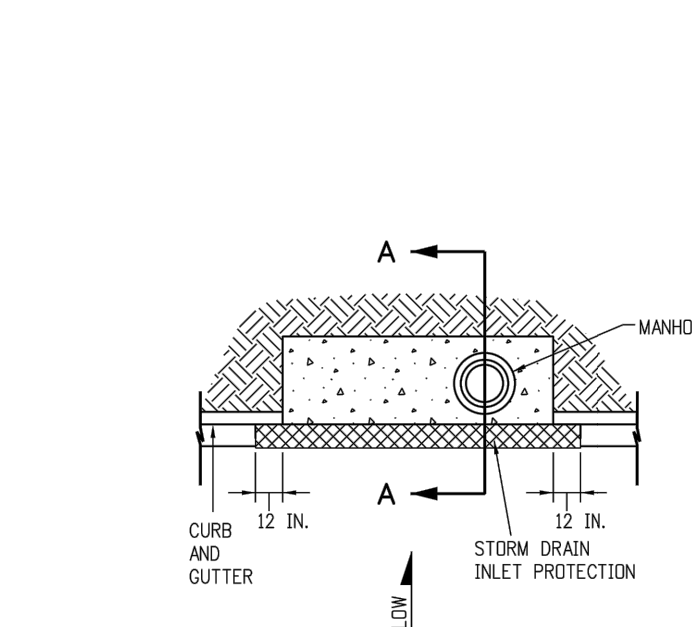


EROSION LOG CULVERT OUTLET PROTECTION

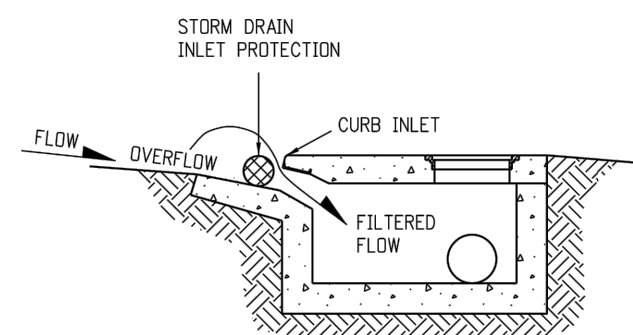
3

CULVERT OUTLET PROTECTION

NO SCALE



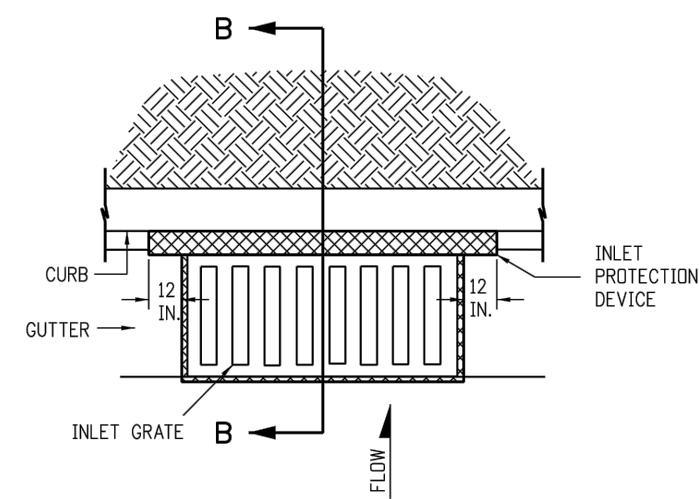
PLAN VIEW



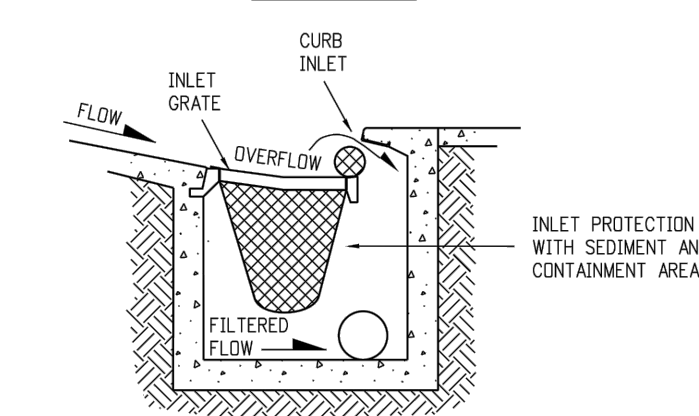
SECTION A-A

STORM DRAIN INLET PROTECTION (TYPE I)

- NOTES:
1. INLET PROTECTION DEVICE SHALL EXTEND 12 INCHES PAST EACH END OF THE INLET.
 2. THE PAY ITEM NUMBERS FOR STORM DRAIN INLET PROTECTION (TYPE I) ARE 208-0005 (LF), 208-00053 84 INCHES (EACH), 208-00057 144 INCHES (EACH), AND 208-00058 204 INCHES (EACH).
 3. FOR STORM DRAIN INLET TYPES I AND II, IF THERE IS A MINIMUM CLEARANCE OF 3 FEET FROM THE EDGE OF THE TRAVELED WAY TO THE FACE OF CURB, USE THE AGGREGATE BAGS AT STORM DRAIN INLET (TYPE I) DETAIL ON SHEET 4 INSTEAD.

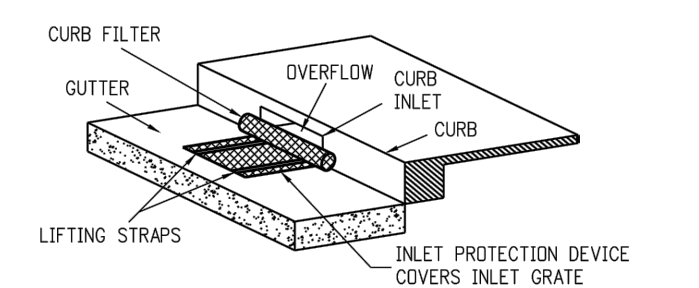


PLAN VIEW



SECTION B-B

STORM DRAIN INLET PROTECTION (TYPE II)



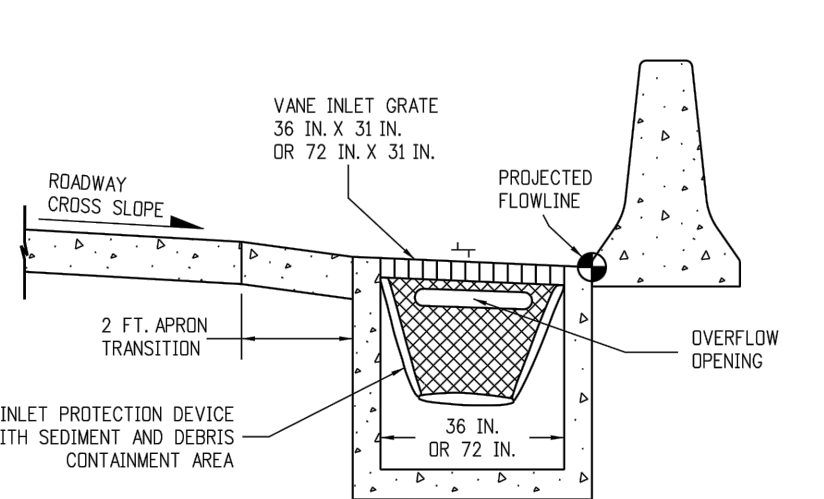
ISOMETRIC VIEW
OPTION B

STORM DRAIN INLET PROTECTION (TYPE II)

5

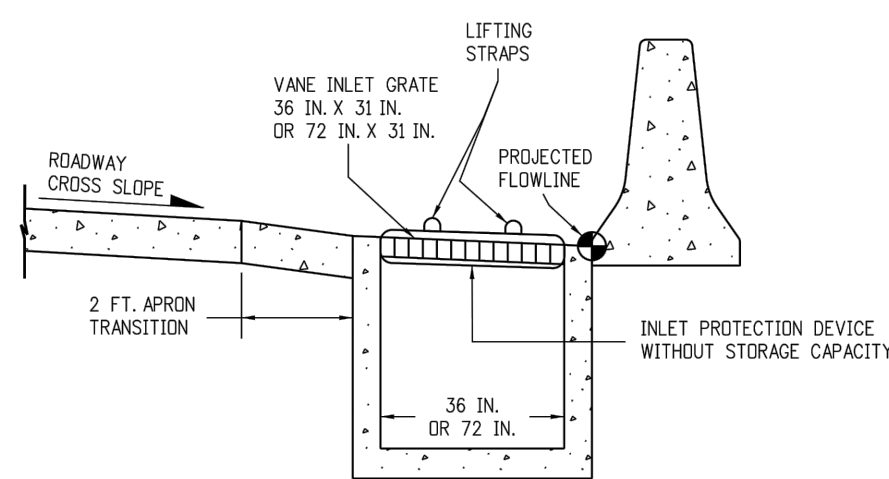
STORM DRAIN INLET PROTECTION TYPES

NO SCALE



OPTION A

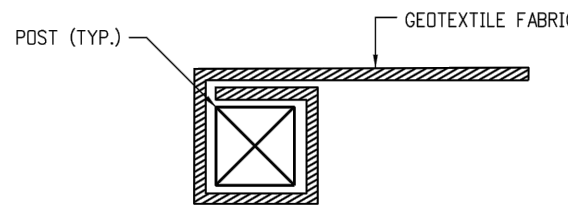
STORM DRAIN INLET PROTECTION (TYPE III)



OPTION B

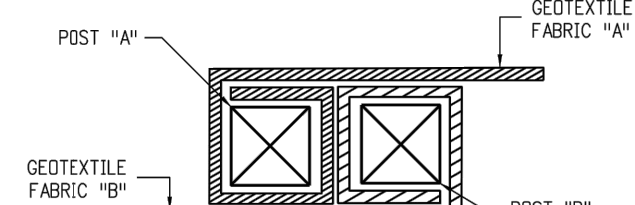
STORM DRAIN INLET PROTECTION (TYPE III)

NOTE: THE PAY ITEM NUMBER FOR STORM DRAIN INLET PROTECTION (TYPE III) (EACH) IS 208-00056.



END SECTION DETAIL (PLAN VIEW)

- NOTE:
1. THE END OF THE SILT FENCE FABRIC SHALL BE WRAPPED APPROX. 6 INCHES AROUND A WOODEN POST ONE FULL TURN, THEN SECURED ALONG THE POST WITH 6 HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG.



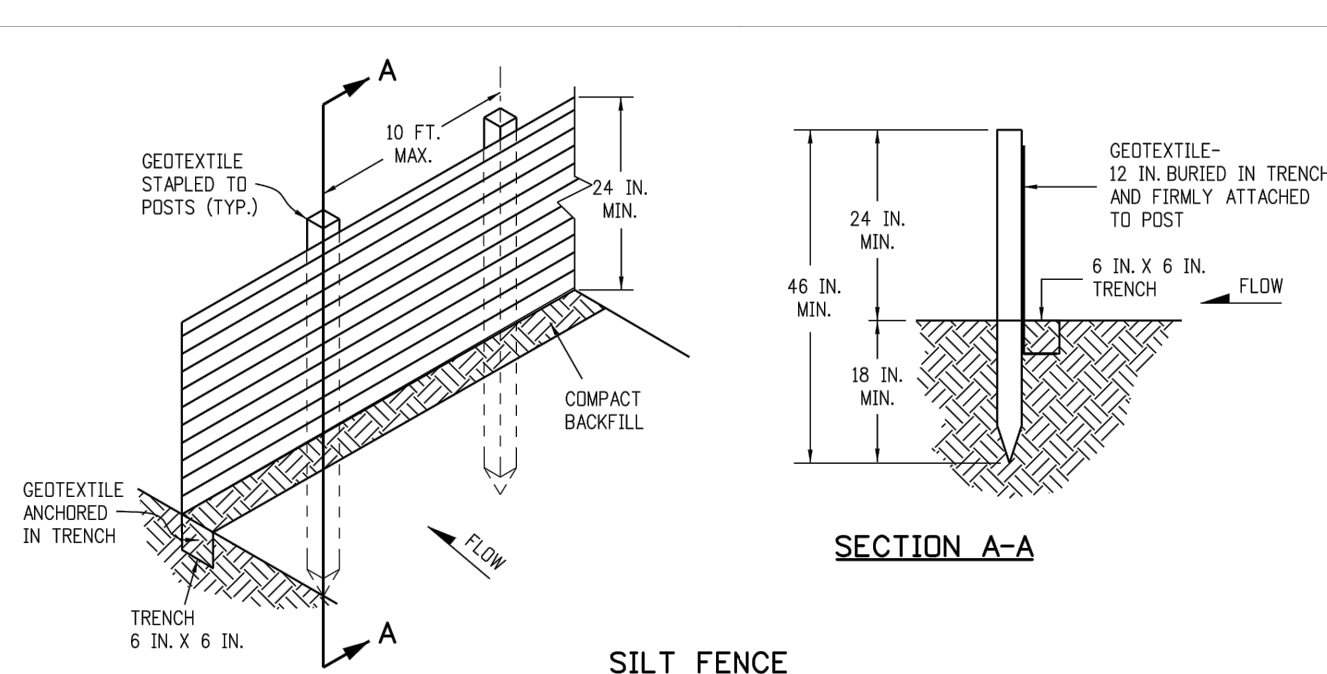
JOINING SECTION DETAIL (PLAN VIEW)

- NOTES:
1. THE ENDS OF THE SILT FENCE FABRIC SHALL BE JOINED TOGETHER BY WRAPPING APPROX. 6 INCHES OF EACH END AROUND A WOODEN POST ONE FULL TURN, THEN SECURED ALONG THE POST WITH 6 HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG.
 2. POSTS SHALL BE TIGHTLY ABUTTED WITH NO GAPS TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT.

4

SILT FENCE APPLICATIONS

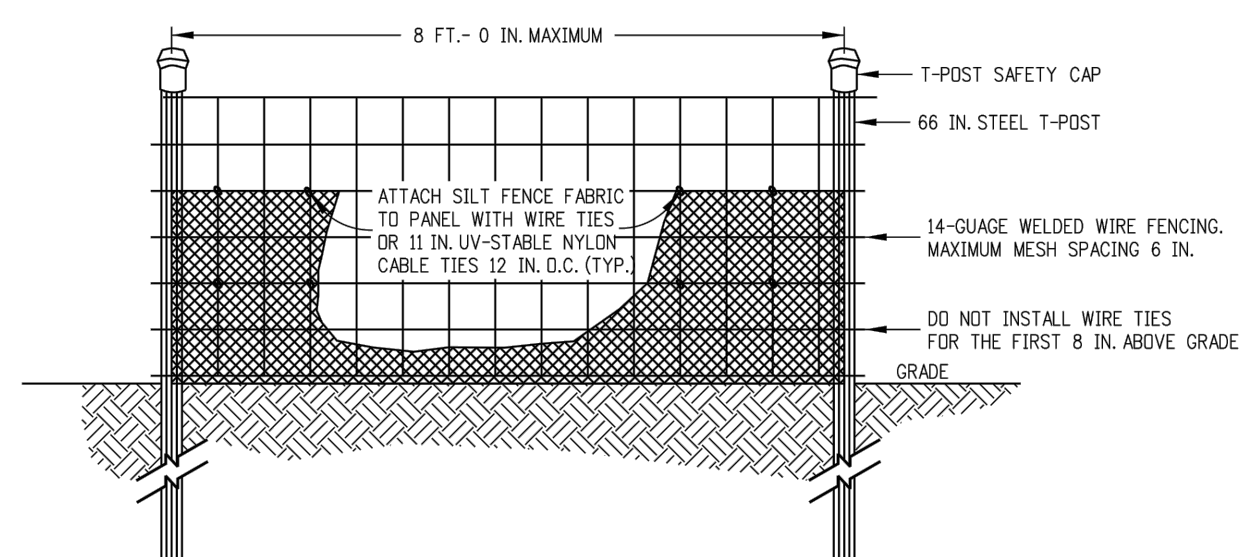
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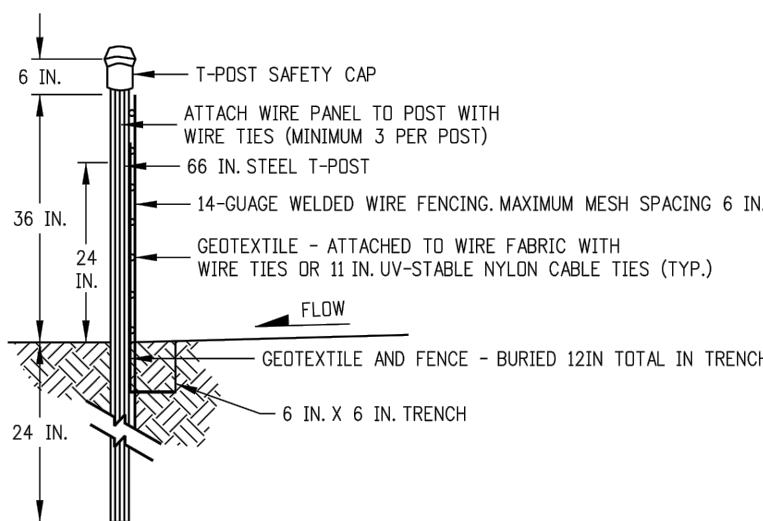
SECTION A-A

SILT FENCE

- NOTES:
1. GEOTEXTILE SHALL BE ATTACHED TO WOOD POSTS WITH THREE OR MORE STAPLES PER POST. STAPLES SHALL BE HEAVY DUTY WIRE AND AT LEAST 1 INCH LONG.
 2. WOOD POST SHALL BE 1 IN. X 1 IN. NOMINAL.
 3. THE PAY ITEM NUMBER FOR SILT FENCE (LF) IS 208-00020.
 4. THE SILT FENCE SHALL BE PLACED ON THE CONTOUR (AT THE SAME ELEVATION ± 6 IN.). THE ENDS SHALL BE FLARED UP SLOPE (MINIMUM ELEVATION GAIN OF 18 IN.).



ELEVATION VIEW



SIDE VIEW

- NOTES:
1. THE ENDS OF THE SILT FENCE FABRIC SHALL BE JOINED TOGETHER BY WRAPPING APPROX. 6 INCHES OF EACH END AROUND A STEEL T-POST, THEN SECURED ALONG THE POST WITH WIRE TIES (MINIMUM 3 PER POST).
 2. POSTS SHALL BE TIGHTLY ABUTTED WITH NO GAPS TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT.
 3. SILT FENCES SHALL NOT BE USED FOR CHECK DAMS.
 4. THE PAY ITEM NUMBER FOR SILT FENCE (REINFORCED) (LF) IS 208-00021.

SILT FENCE (REINFORCED)



DESIGNED:
C. BAILEY
R. LIGGETT
TECH. REVIEW:

DATE:
3/29/24

SUB SHEET NO.

C53

TITLE OF SHEET
EROSION CONTROL
DETAILS

MOREFIELD CANYON
MESA VERDE NATIONAL PARK

DRAWING NO.
307
176605
PMIS/PKG NO.
317500
SHEET
55 OF 55