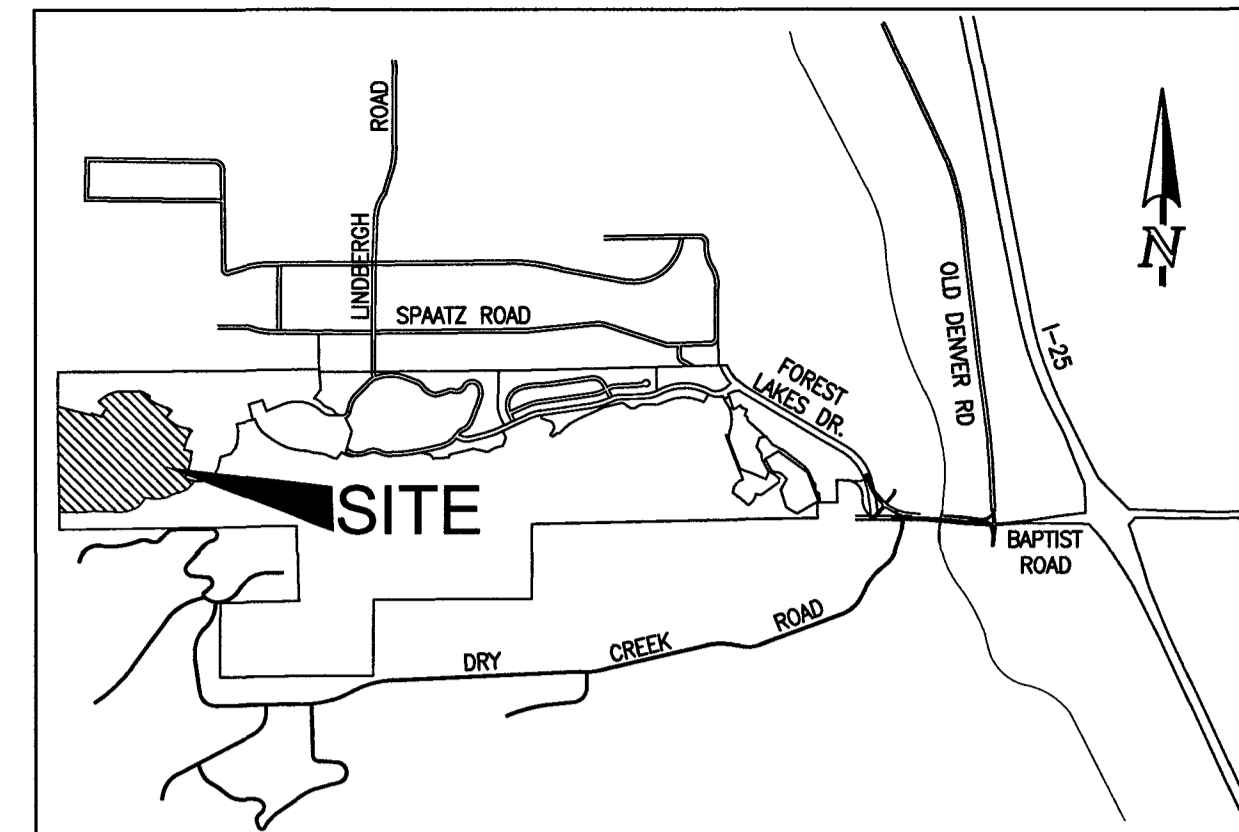


# FOREST LAKES FILING NO. 7

## COUNTY OF EL PASO, STATE OF COLORADO

# UTILITY CONSTRUCTION PLANS

MAY 2021  
(SECTIONS 27 AND 28, TOWNSHIP 11 SOUTH, RANGE 67 WEST)



### WASTEWATER GENERAL NOTES:

- ALL D.I.P. SHALL BE CATHODICALLY PROTECTED BY BONDING ALL JOINTS, POLY-WRAPPING, AND INSTALLING 17LB MAGNESIUM ANODES AT THE LOCATIONS SHOWN ON THE DRAWINGS. THE COST OF ALL CATHODIC PROTECTION SHALL BE INCLUDED IN THE PROJECT.
- ALL PVC PIPE SHALL BE INSTALLED PER THE TOWN OF MONUMENT SANITARY SEWER COLLECTION SYSTEMS SPECIFICATIONS. ALL TOWN STANDARDS ARE AVAILABLE AT [WWW.TOWNOFMONUMENT.ORG](http://WWW.TOWNOFMONUMENT.ORG)
- IF A BYPASS PUMPING PLAN OR FLOW MANAGEMENT PLAN IS NEEDED, IT SHALL BE REVIEWED AND APPROVED BY THE TOWN AND TRIVIEW METRO DISTRICT PRIOR TO DESIGN APPROVAL. THE CONTRACTOR SHALL HAVE 100% REDUNDANT PUMPING CAPACITY WITH 24 HOUR SUPERVISION DURING ALL PUMPING OPERATIONS.
- THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METRO DISTRICT OFFICE (719-498-8888) 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO OUTLINE METHODS OF CONSTRUCTION, MATERIALS TO BE USED, AND CONSTRUCTION STAKING.
- ALL MANHOLES LOCATED WITHIN THE PROJECT LIMITS SHALL BE LOCATED AND RAISED BY THE CONTRACTOR. IF THE MANHOLE IS IN POOR CONDITION OR IF THE DISTANCE BETWEEN THE RING/COVER AND CONE OF THE MANHOLE EXCEEDS THE WASTEWATER STANDARDS, THE CONTRACTOR MAY BE REQUIRED TO REPLACE PART OR ALL OF THE EXISTING MANHOLE. (SEE SECTION 5-4)
- ALL MANHOLES TO BE ABANDONED SHALL HAVE THE "IN" AND "OUT" INVERTS PLUGGED WITH A WATERTIGHT MECHANICAL PLUG AND GROUTED, THE CONE SECTION SHALL BE REMOVED AND DISPOSED, THE RING AND COVER REMOVED, AND THE MANHOLE FILLED WITH COMPACTED FILL.
- IF AN ABANDONED SEWER LINE FALLS UNDER A PROPOSED STRUCTURE IT SHALL BE REMOVED OR GROUTED FULL.
- IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS THE CONTRACTOR SHALL NOTIFY THE TOWN INSPECTOR IMMEDIATELY SO THAT APPROPRIATE ACTION CAN BE TAKEN BY THE OWNER/DEVELOPER.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE WASTEWATER PIPELINES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF THE TOWN INSPECTOR.
- ALL PIPELINES SHALL HAVE "AS-BUILT" RECORD DRAWINGS INCLUDING PLAN AND PROFILE SHEETS, ON MYLAR, AND CD-ROM SUBMITTED TO THE TOWN INSPECTOR PRIOR TO THE COMMENCEMENT OF THE TWO YEAR WARRANTY PERIOD.
- ALL SEPTIC TANKS TO BE ABANDONED SHALL HAVE THE INVERTS PLUGGED, THE LID REMOVED, AND THE TANK FILLED WITH APPROVED (GRANULAR) COMPACTED FILL. THE EL PASO COUNTY DEPARTMENT OF HEALTH SHALL BE NOTIFIED WHEN ANY SEPTIC TANK IS ABANDONED. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF HEALTH AND PAY ALL NECESSARY FEES AND PERMITS.
- THE CONTRACTOR WILL BE REQUIRED TO REPLACE EXISTING MANHOLES THAT, IN THE TOWN/TRIVIEW INSPECTOR'S VIEW, ARE FOUND TO BE IN POOR CONDITION AND CAN NO LONGER BE MODIFIED OR USED.
- THE CONTRACTOR WILL VERIFY AND RECONNECT ALL EXISTING SERVICE CONNECTIONS WITH THE APPROVAL OF THE TOWN/TRIVIEW INSPECTOR. THE CONTRACTOR SHALL NOTE THAT SERVICES OTHER THAN THOSE FROM ADJACENT STRUCTURES MAY BE ENCOUNTERED.
- SANITARY SEWER SERVICE LINES SHALL BE STUBBED AS SHOWN AND MARKED WITH A 2X4 POST.

### WATER GENERAL NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN COMPLIANCE WITH THE TOWN OF MONUMENT & TRIVIEW METRO DISTRICT STANDARD SPECIFICATIONS AND SHALL BE SUBJECT TO INSPECTION BY THE DISTRICT INSPECTOR AND THE TOWN OF MONUMENT INSPECTOR.
- ALL WATER MAINS SHOWN ON THESE PLANS SHALL BE P.V.C. UNLESS OTHERWISE NOTED. THE DEPTH OF COVER SHALL BE NO LESS THAN 5.0 FEET AND NO GREATER THAN 6 FEET UNLESS OTHERWISE NOTED. THE VERTICAL CLEARANCE WITH OTHER UTILITIES AND IMPROVEMENTS SHALL BE A MINIMUM OF 18 INCHES.
- ALL FIRE HYDRANTS AND FUTURE SERVICE STUBS HAVE BEEN LOCATED BY THE ENGINEER. THE ENGINEER SHALL BE NOTIFIED OF ANY REQUIRED REALIGNMENT, EITHER VERTICAL OR HORIZONTAL.
- WATER SERVICE LINES SHALL BE STUBBED AS SHOWN AND MARKED WITH A 2X4 POST PRIOR TO EXTENSION TO HOME. (SEE DETAIL 8)
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE TOWN OF MONUMENT INSPECTOR AT 499-3375 A MINIMUM OF 2 WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- PRIOR TO CONSTRUCTION, TESTS FOR CORROSIVE SOIL CONDITIONS ARE REQUIRED. IF CORROSION PROTECTION IS REQUIRED, THEN THE METHOD OF PROTECTION SHALL BE APPROVED BY THE TOWN/TRIVIEW.
- ANY STUBS AND APPURTENANCES NOT USED AS PROPOSED SHALL BE REMOVED AND REPLACED WITH AN ACCEPTABLE SECTION OF PIPE AT THE DEVELOPER'S EXPENSE.
- ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION. ANY INTERRUPTION OF EXISTING SERVICES MUST BE COORDINATED BY THE CONTRACTOR. ALL NEW 8" PUBLIC MAINS THAT ARE REPLACING EXISTING WATER MAINS TO BE ABANDONED MUST BE INSTALLED PRIOR TO ABANDONMENT SO AS TO MINIMIZE THE INTERRUPTION OF EXISTING SERVICE.

### FOR PIPELINES 1.04% OR LESS GRADE THE FOLLOWING ADDITIONAL INSTALLATION PRACTICES SHALL BE USED.

- THE BOTTOM OF THE PIPE TRENCH SHALL BE PLATE TAMPED PRIOR TO THE INSTALLATION OF ANY PIPE OR BEDDING MATERIAL.
- SELECT BEDDING MATERIAL SHALL BE INSTALLED PER CHAPTER 2 OF THE "COLORADO SPRINGS UTILITIES, WASTEWATER STANDARDS".
- TRENCH BACKFILL MATERIAL SHALL BE INSTALLED PER CHAPTER 2 OF THE "COLORADO SPRINGS UTILITIES, WASTEWATER STANDARDS".
- PIPELINES FOR LESS THAN 1.04% SHALL BE "AS CONSTRUCTED" BY A LICENSED SURVEYOR OR A APPOINTED REPRESENTATIVE UNDER HIS DIRECT SUPERVISION. THE "AS CONSTRUCTED" MANHOLE INVERTS SHALL BE RECORDED ON THE RECORD DRAWING(S) SUBMITTED TO TRIVIEW METRO DISTRICT'S RECORDS MANAGEMENT.

### BASIS OF BEARINGS:

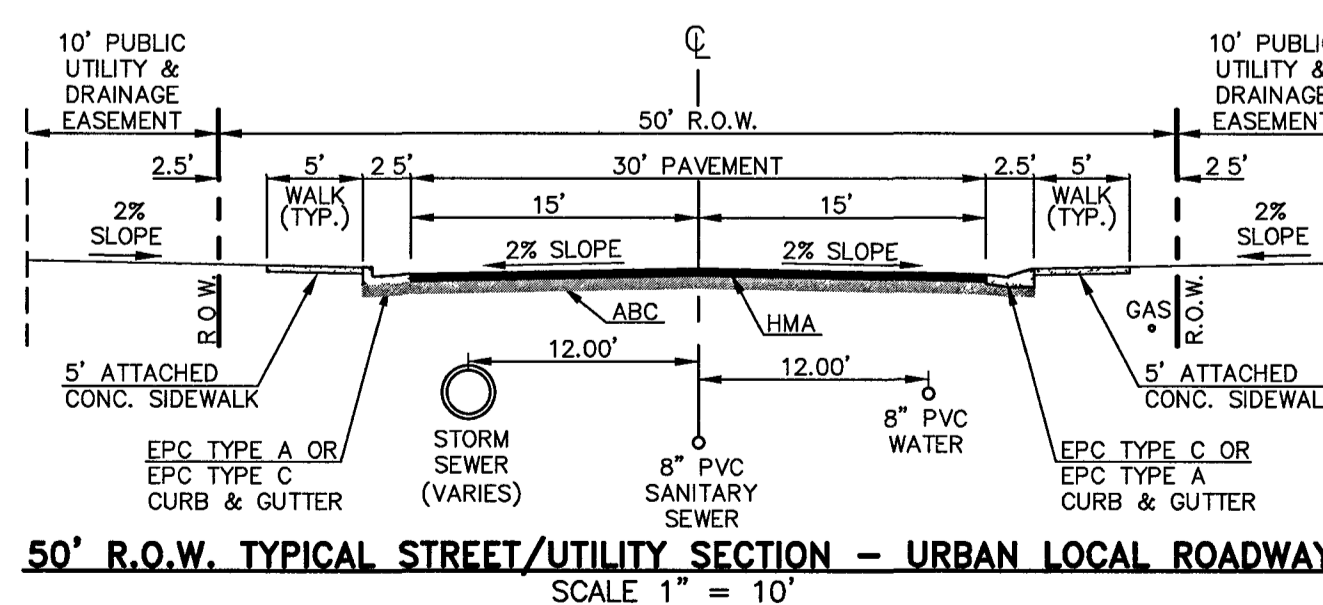
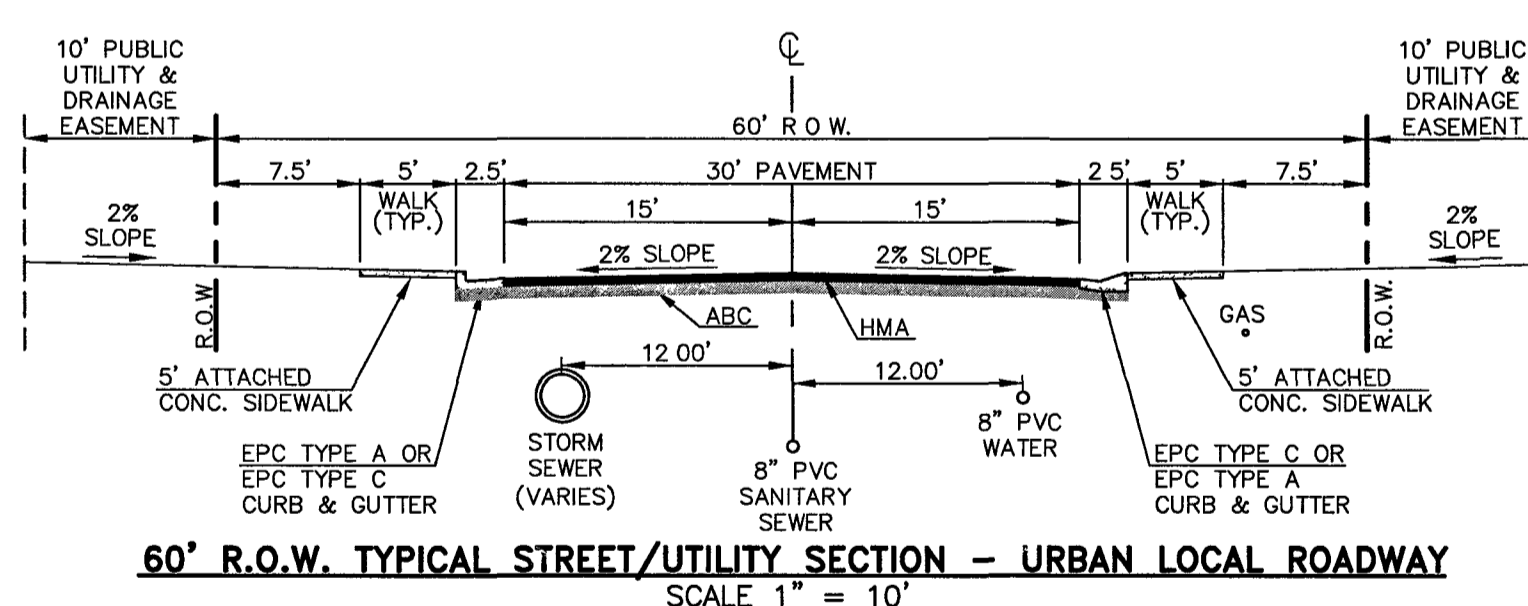
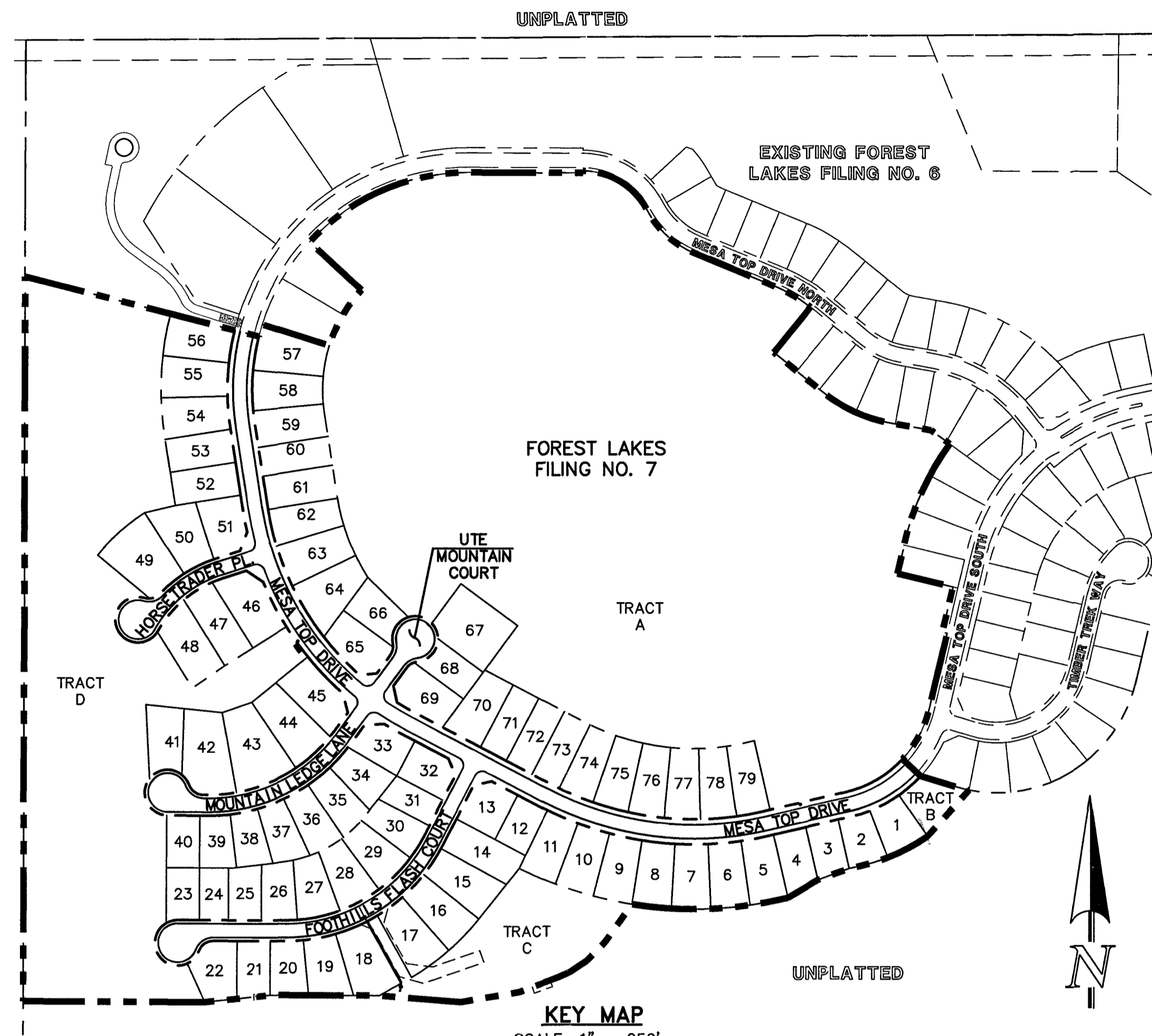
A PARCEL OF LAND LYING WITHIN THE SOUTH HALF OF THE SECTION 27 AND THE SOUTH HALF OF SECTION 28, TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
BEARINGS ARE BASED ON THE NORTHEAST RIGHT-OF-WAY LINE OF FOREST LAKES DRIVE SHOWN IN FOREST LAKES FILING NO. 1, MONUMENTED WITH A #4 REBAR AND YELLOW PLASTIC CAP, LS 4842 AND ASSUMED TO BEAR S59°33'25"E.

### BENCHMARKS:

- THE SOUTHWESTERLY CORNER OF 15 AS PLATTED IN FOREST LAKES FILING NO. 1 BEING MONUMENTED BY A NO. 4 REBAR AND RED PLASTIC SURVEYORS CAP STAMPED "ROCKWELL PLS 19586" ELEVATION = 7039.42
- THE NORTHEASTERLY CORNER OF 2 AS PLATTED IN FOREST LAKES FILING NO. 1 BEING MONUMENTED BY A NO. 4 REBAR AND RED PLASTIC SURVEYORS CAP STAMPED "ROCKWELL PLS 19586" ELEVATION = 6966.24

### SHEET INDEX

TITLE SHEET	SHEET 1 OF 11
SANITARY SEWER PLAN - MESA TOP DR. STA: 1+00.00 - 12+50.00	SHEET 2 OF 11
SANITARY SEWER PLAN - MESA TOP DR. STA: 12+50.00 - END	SHEET 3 OF 11
SANITARY SEWER PLAN - HORSE TRADER PL. & MOUNTAIN LEDGE LN.	SHEET 4 OF 11
SANITARY SEWER PLAN - Foothills PLASH CT. STA: 1+00.00 - END	SHEET 5 OF 11
PUBLIC 8" PVC WATER SYSTEM PLAN	SHEETS 6-9 OF 11
UTILITY SERVICE PLAN	SHEET 10 OF 11
UTILITY SERVICE PLAN/DETAILS	SHEET 11 OF 11



### EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH E.C.M. SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

Approved  
by Jennifer Irvine, P.E.  
El Paso County Planning and Community Development  
on behalf of Elizabeth Hilyard, Engineering Division Manager  
03/11/2022 9:32:02 AM

JENNIFER IRVINE, P.E.  
COUNTY ENGINEER/ECM ADMINISTRATOR

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UTILITY NOTIFICATION CENTER OF COLORADO  
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NO. REVISION	DATE

REVIEW:  
PREPARED UNDER THE DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS, LLC

KYLE R. CAMPBELL, P.E. #29794  
DATE: 02/22/22

**CLASSIC CONSULTING**

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0799 (Fax)

FOREST LAKES FILING NO. 7 UTILITY CONSTRUCTION PLANS TITLE SHEET			
DESIGNED BY	MES	SCALE	DATE
DRAWN BY	BB	(H) 1" = N/A	SHEET 1 OF 11
CHECKED BY		(V) 1" = N/A	JOB NO. 1175.70

- ### AGENCIES:
- DEVELOPER:** FOREST LAKES RESIDENTIAL DEVELOPMENT, LLC  
6389 CORPORATE DRIVE, SUITE 200  
COLORADO SPRINGS, CO 80919  
MR. JIM BOUTON (719) 592-3259
- CIVIL ENGINEER:** CLASSIC CONSULTING ENGINEERS & SURVEYORS  
619 N. CASCADE AVENUE, SUITE 200  
COLORADO SPRINGS, CO 80903  
MR. KYLE R. CAMPBELL, P.E. (719) 785-2800
- COUNTY ENGINEERING:** DEVELOPMENT SERVICES DEPARTMENT  
2880 INTERNATIONAL CIRCLE  
COLORADO SPRINGS, CO 80910  
MR. GILBERT LOFORCE, (719) 520-7945
- WATER & SANITATION DISTRICT:** FOREST LAKES METROPOLITAN DISTRICT  
2 N. CASCADE AVENUE, SUITE 1280  
COLORADO SPRINGS, CO 80903  
MS. ANN NICHOLS, (719) 633-9500
- FIRE DISTRICT:** TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT  
16055 OLD FOREST POINT, SUITE 102  
MONUMENT, COLORADO 80132  
MR. JAMEY BUMGARDNER, (719) 484-0911
- GAS COMPANY:** BLACK HILLS ENERGY  
18965 BASE CAMP ROAD, A-7  
MONUMENT, CO 80132  
(888) 890-5554
- ELECTRIC COMPANY:** MOUNTAIN VIEW ELECTRIC  
11140 E. WOODMEN ROAD  
FALCON, COLORADO 80831  
(719) 495-2283
- TELEPHONE COMPANY:** CENTURY LINK COMMUNICATIONS  
(LOCATORS) (800)-922-1987  
A.T.&T. (LOCATORS) (719) 635-3674

### APPROVALS:

#### DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS, OR OMISSIONS THAT MAY BE PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

KYLE R. CAMPBELL, P.E. #29794  
FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS  
DATE: 02/22/22

#### OWNER/DEVELOPER STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

JIM BOUTON  
FOREST LAKES RESIDENTIAL DEVELOPMENT, LLC  
6389 CORPORATE DRIVE, SUITE 200  
COLORADO SPRINGS, CO 80919  
DATE: 2-22-22

#### FOREST LAKES METROPOLITAN DISTRICT:

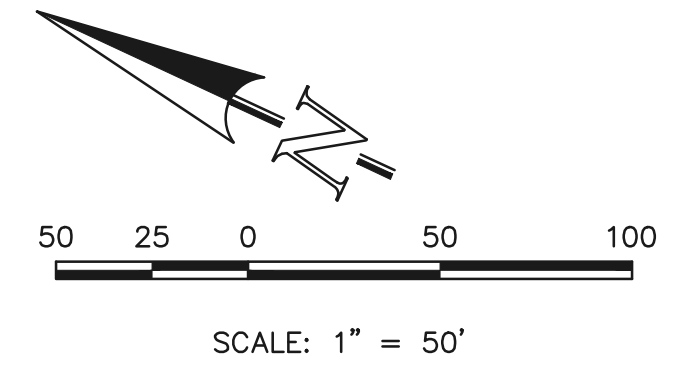
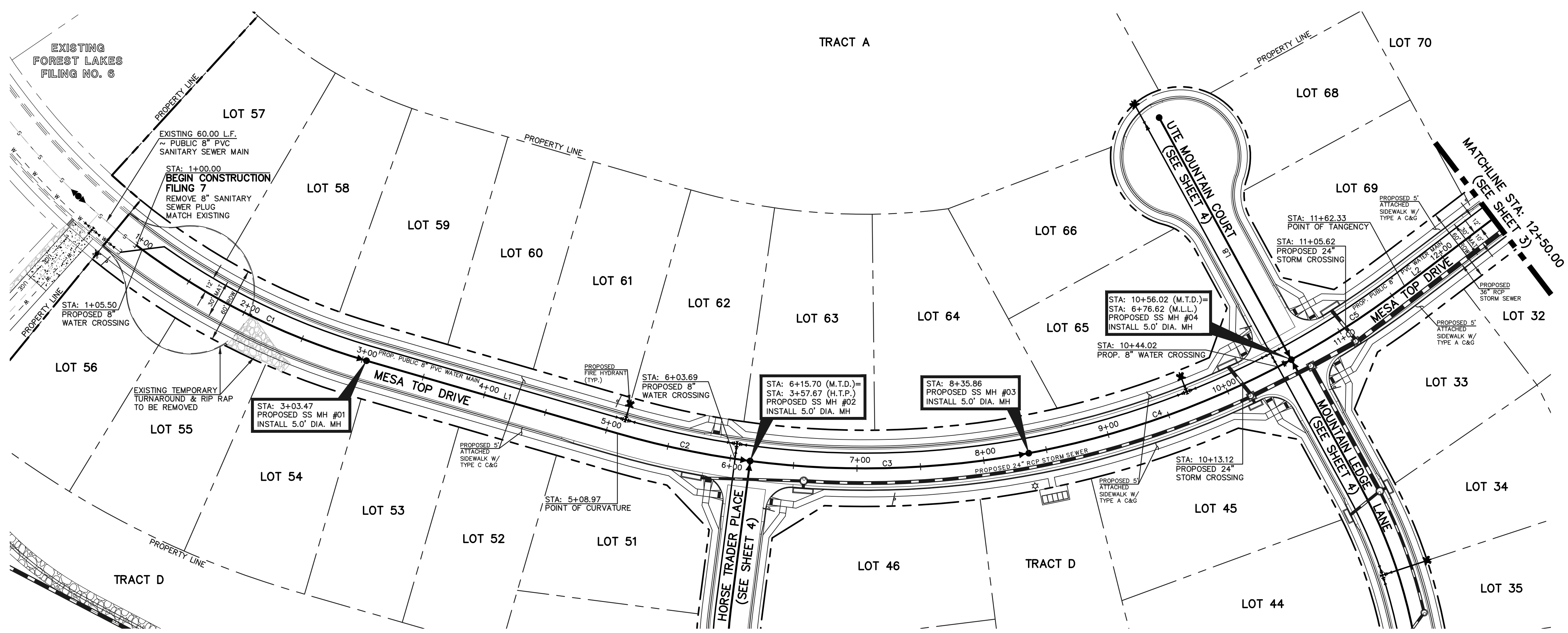
THESE CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED AND APPROVED FOR WATER MAIN, SANITARY SEWER MAIN AND UTILITY SERVICE CONSTRUCTION.

Ann Nichols  
FOR AND ON BEHALF OF THE FOREST LAKES METRO. DISTRICT  
DATE: 2-24-22

#### TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT:

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO THE TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT SPECIFICATIONS. THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS AS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT.

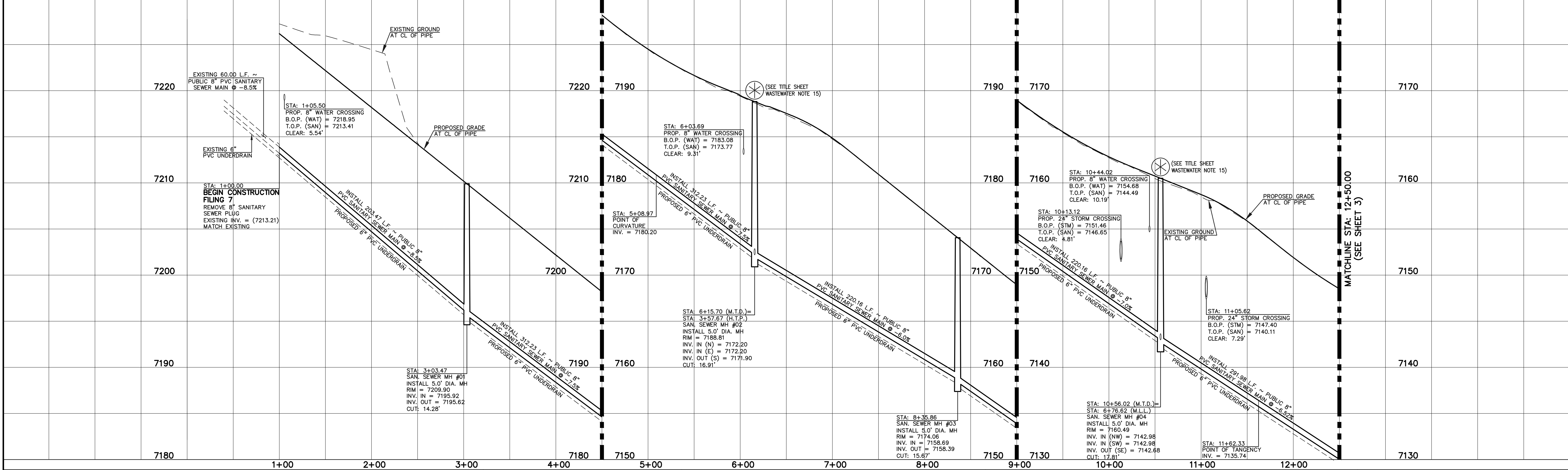
Joe Bumgardner  
FOR AND ON BEHALF OF TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT  
DATE: 2/21/2022



SANITARY LINE TABLE		
LINE	LENGTH	DIRECTION
L1	205.50	S08°51'14"E
L2	185.67	S62°19'54"E

SANITARY CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	203.47	555.00	21°00'20"
C2	106.72	700.00	8°44'08"
C3	220.16	700.00	18°01'14"
C4	220.16	700.00	18°01'14"
C5	106.31	700.00	8°42'04"

**PUBLIC 8" PVC SANITARY SEWER MAIN - MESA TOP DRIVE**



**LEGEND**

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

REVIEW:

PREPARED UNDER THE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CANFIELD, P.E. #29794

02/22/22

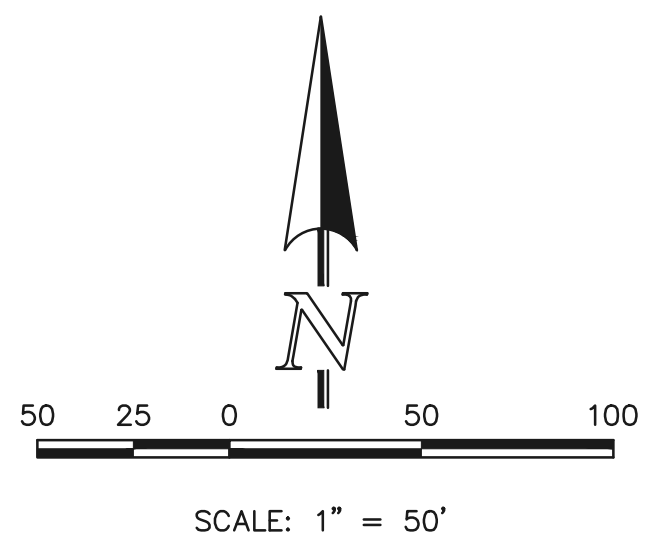
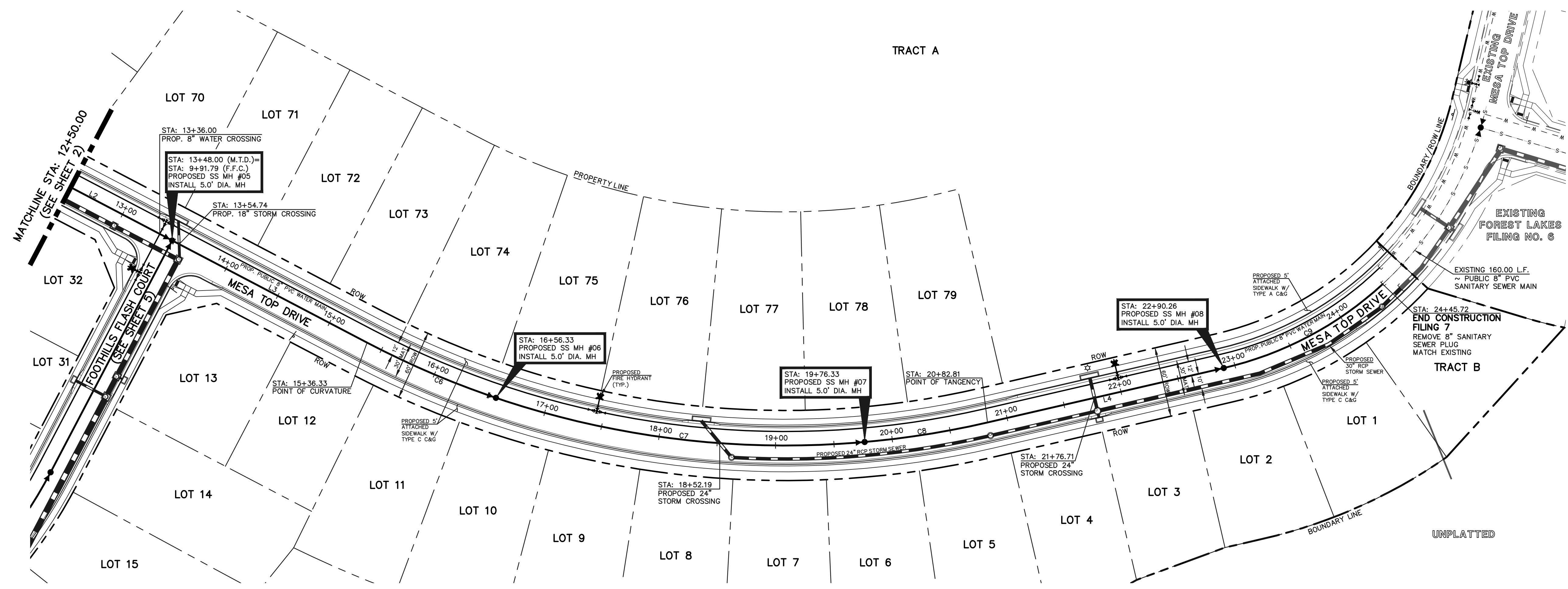
**CLASSIC CONSULTING**

FOREST LAKES FILING NO. 7  
PUBLIC 8" PVC SANITARY SEWER PLAN  
MESA TOP DRIVE  
STA: 1+00.00 - 12+50.00

DESIGNED BY: MES SCALE: DATE: 05/21/21  
DRAWN BY: MES (H) 1" = 50' SHEET 2 OF 11  
CHECKED BY: (V) 1" = 5' JOB NO. 1175.70

619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 785-0790 (719) 785-0799(Fax)

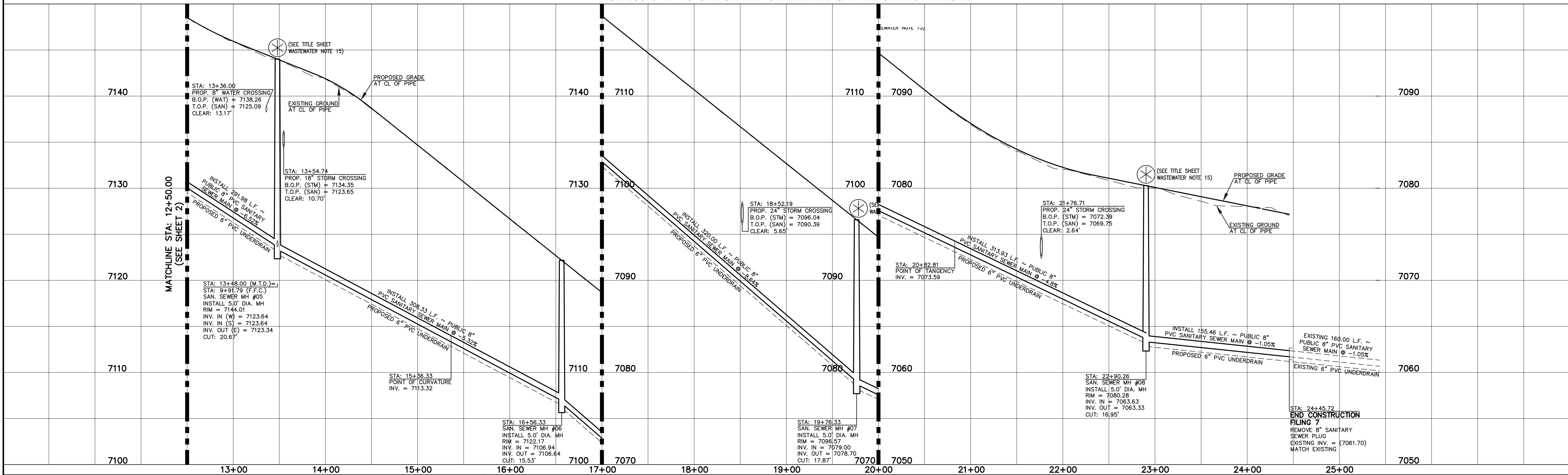
N:\117570\DRAWINGS\CONSTRUCTION UTILITIES\02-117570-SAN.dwg, 2/22/2022, 1:54:09 PM, 1:1



LINE	LENGTH	DIRECTION
L2	185.67	S62°19'54"E
L3	188.33	S62°19'54"E
L4	207.45	N77°00'16"E

CURVE	LENGTH	RADIUS	DELTA
C6	120.00	770.00	8°55'45"
C7	320.00	770.00	23°48'40"
C8	106.48	770.00	7°55'24"
C9	155.46	300.00	29°41'28"

**PUBLIC 8" PVC SANITARY SEWER MAIN - MESA TOP DRIVE**



**LEGEND**

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

REVIEW:

PREPARED UNDER THE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

*(Signature)*  
KYLE R. CANNON, P.E. #29794

02/22/22  
DATE

**CLASSIC CONSULTING**

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

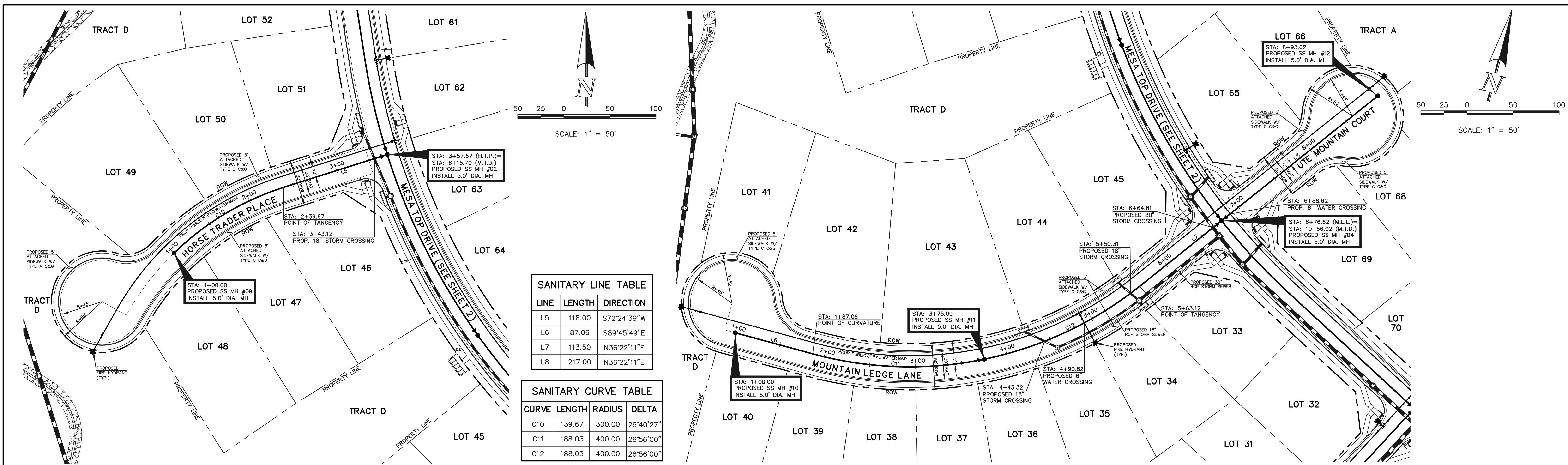
(719) 785-0790  
(719) 785-0799 (Fax)

**FOREST LAKES FILING NO. 7  
PUBLIC 8" PVC SANITARY SEWER PLAN**

MESA TOP DRIVE  
STA: 12+50.00 - END

DESIGNED BY	MES	SCALE	DATE	05/21/21
DRAWN BY	MES	(H) 1" = 50'	SHEET	3 OF 11
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.70	

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**SANITARY LINE TABLE**

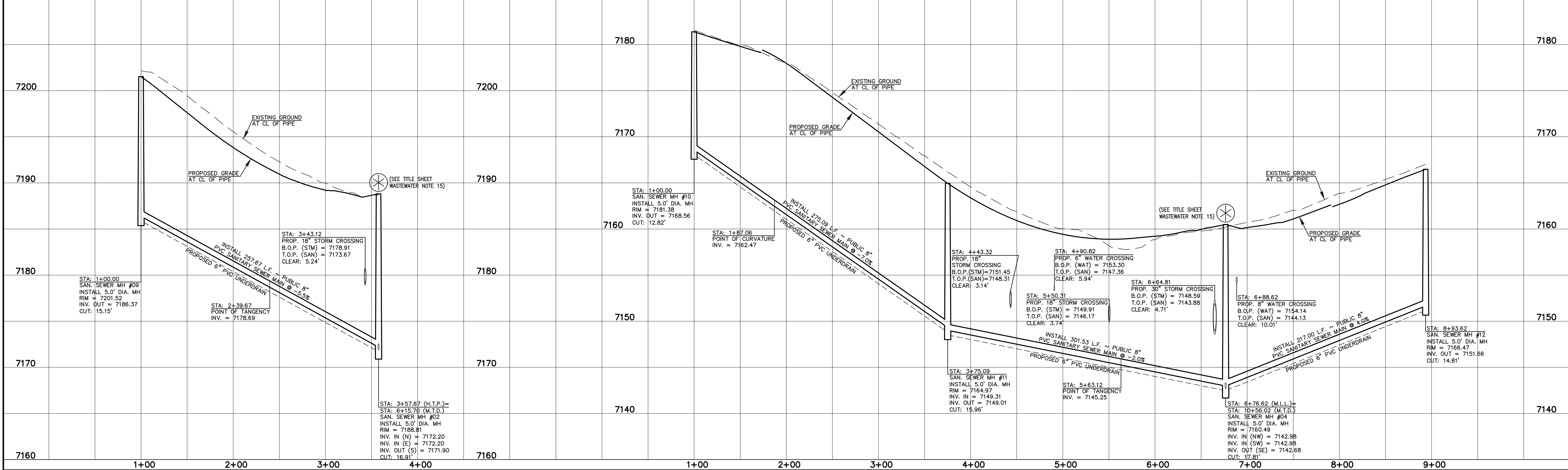
LINE	LENGTH	DIRECTION
L5	118.00	S72°24'39"W
L6	87.06	S89°45'49"E
L7	113.50	N36°22'11"E
L8	217.00	N36°22'11"E

**SANITARY CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA
C10	139.67	300.00	26°40'27"
C11	188.03	400.00	26°56'00"
C12	188.03	400.00	26°56'00"

**PUBLIC 8" PVC SANITARY SEWER MAIN - HORSE TRADER PLACE**

**PUBLIC 8" PVC SANITARY SEWER MAIN - MOUNTAIN LEDGE LANE**



**LEGEND**

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

REVIEW:

PREPARED UNDER THE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING AND SURVEYORS, LLC

KYLE R. CANFIELD, P.E. #29794

DATE: 02/22/22

**CLASSIC CONSULTING**

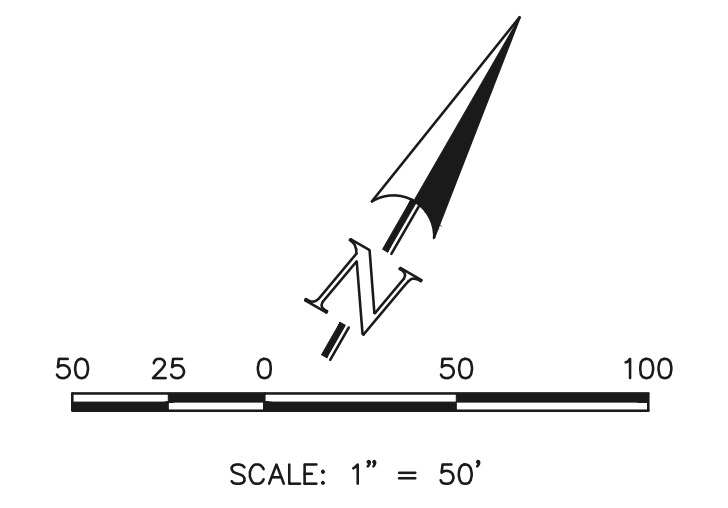
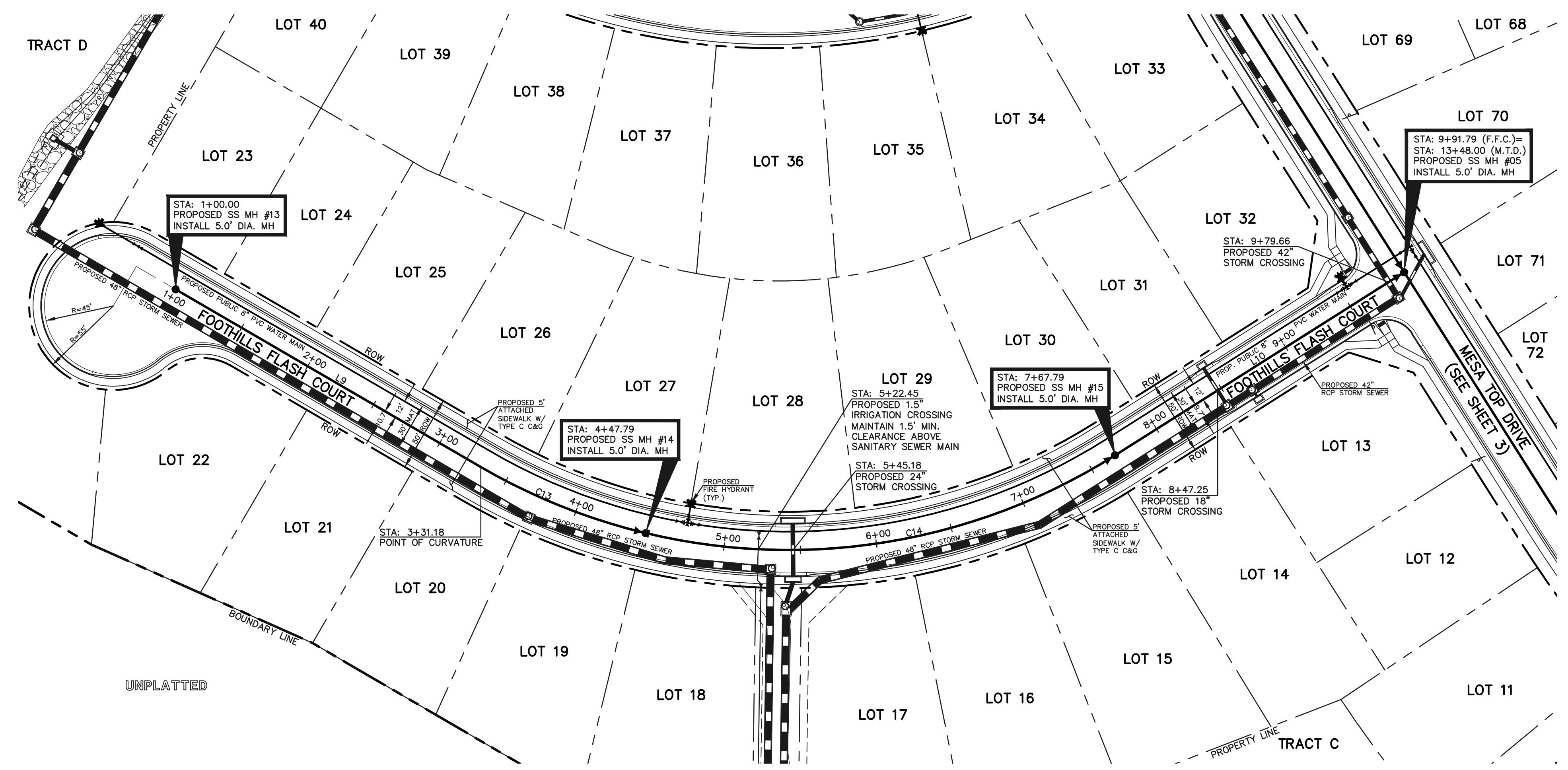
FOREST LAKES FILING NO. 7  
PUBLIC 8" PVC SANITARY SEWER PLAN  
HORSE TRADER PLACE & MOUNTAIN LEDGE LANE

DESIGNED BY	MES	SCALE	DATE	05/21/21
DRAWN BY	MES	(H) 1" = 50'	SHEET	4 OF 11
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.70	

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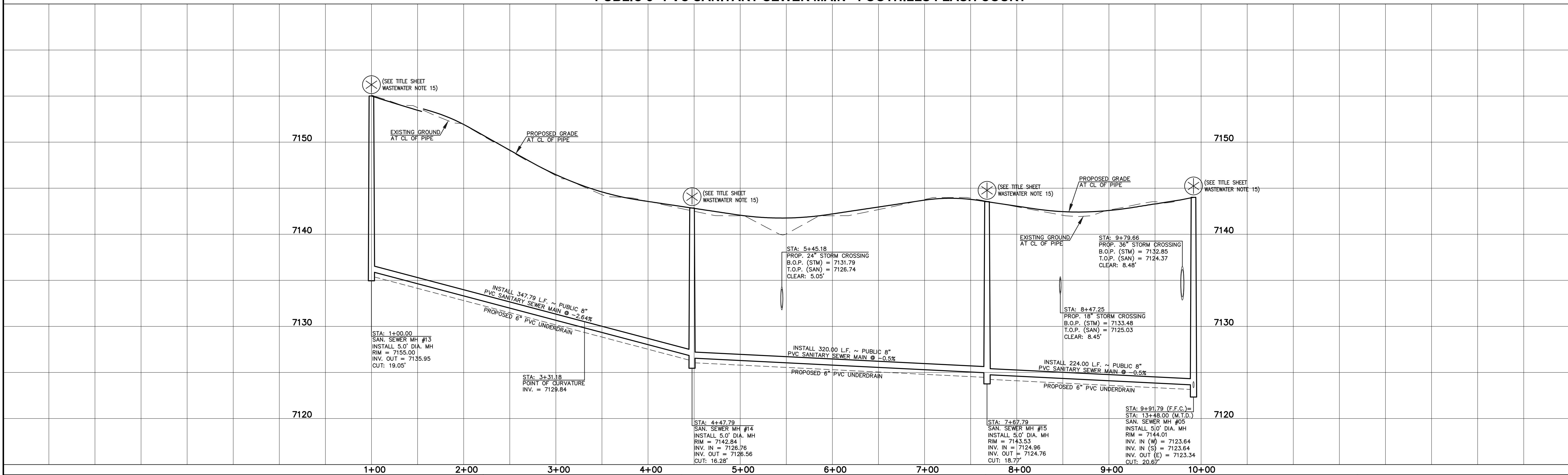
N:\117570\DRAWINGS\CONSTRUCTION UTILITIES\04-117570-SAN.dwg, 2/22/2022, 1:57:26 PM, 1:1



SANITARY LINE TABLE		
LINE	LENGTH	DIRECTION
L9	231.18	S89°47'34"E
L10	224.00	N27°40'06"E

SANITARY CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C13	116.60	400.00	16°42'08"
C14	320.00	400.00	45°50'12"

**PUBLIC 8" PVC SANITARY SEWER MAIN - FOOTHILLS FLASH COURT**



**LEGEND**

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

48 HOURS BEFORE YOU DIG,  
CALL UTILITY LOCATORS  
**811**  
UTILITY NOTIFICATION CENTER OF COLORADO  
IT'S THE LAW

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NO. REVISION	DATE

REVIEW:

PREPARED UNDER THE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CANFIELD P.E. #29794

02/22/22  
DATE

**CLASSIC CONSULTING**

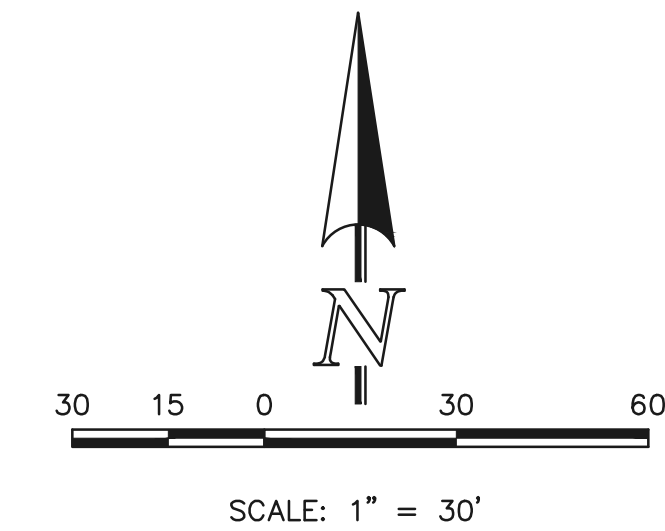
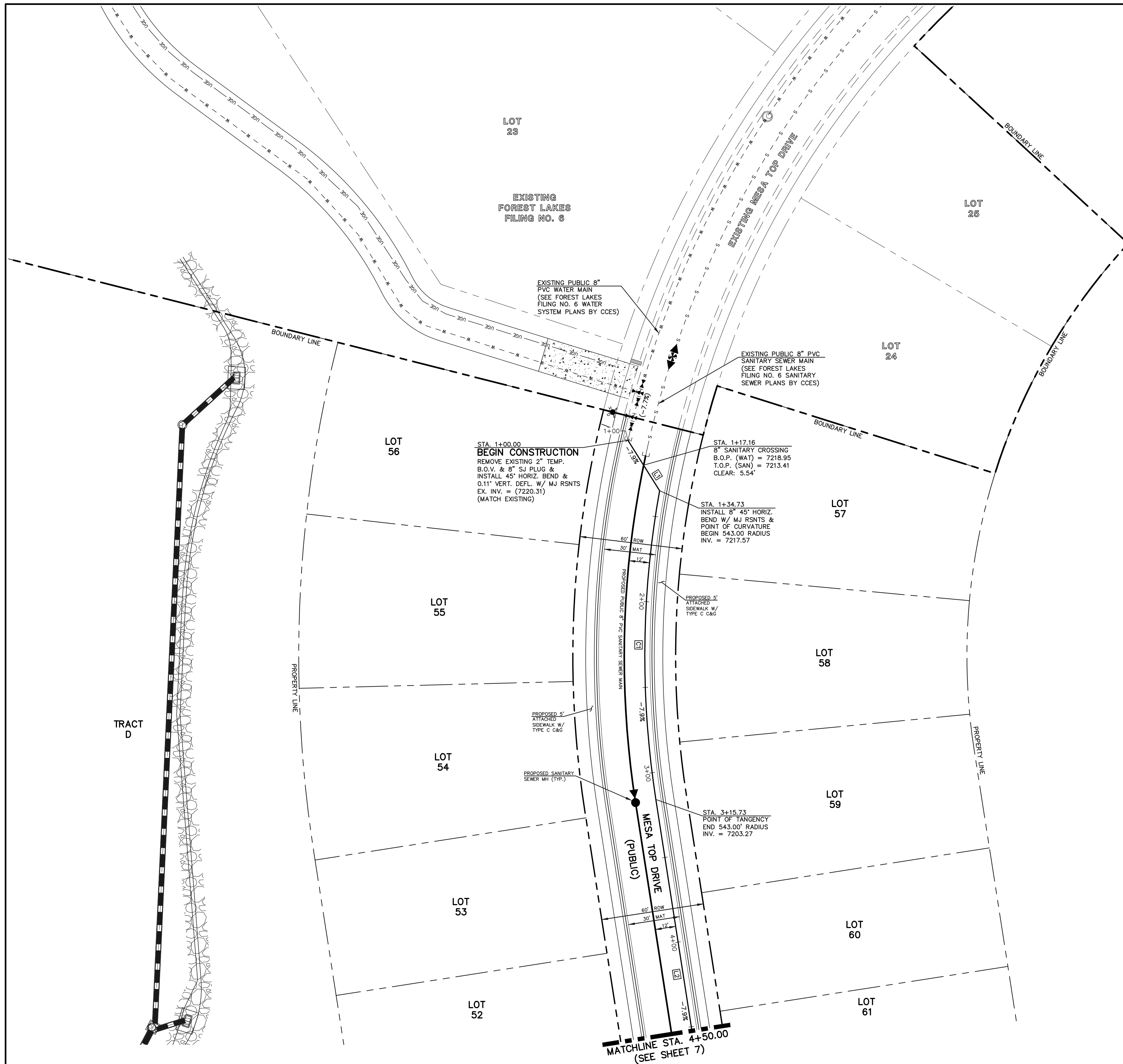
FOREST LAKES FILING NO. 7  
PUBLIC 8" PVC SANITARY SEWER PLAN  
FOOTHILLS FLASH COURT

DESIGNED BY	MES	SCALE	DATE	05/21/21
DRAWN BY	MES	(H) 1" = 50'	SHEET	5 OF 11
CHECKED BY		(V) 1" = 5'	JOB NO.	1175.70

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

(719) 785-0790  
(719) 785-0799 (Fax)

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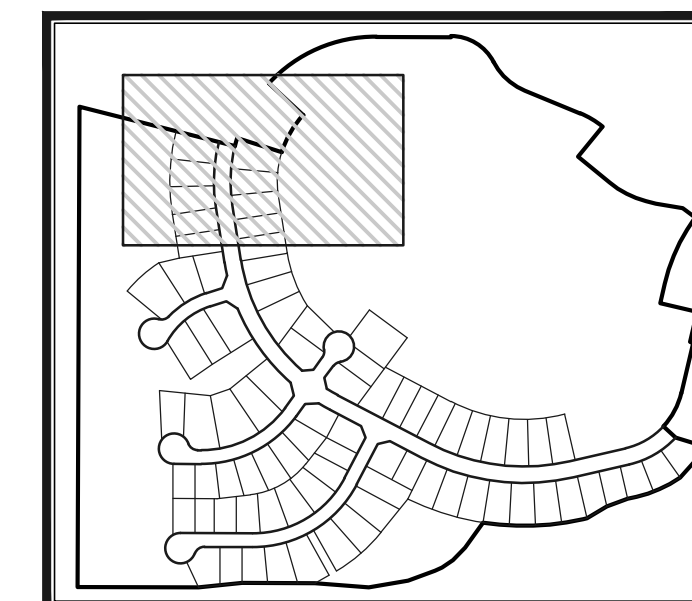


WATER LINE TABLE		
	LENGTH	BEARING
L1	34.73	N32°09'48"W
L2	205.50	N08°51'14"W

WATER CURVE TABLE			
	DELTA	LENGTH	RADIUS
C1	19°05'55"	181.00	543.00

**NOTE:**  
NO TREES WILL BE ALLOWED WITHIN 15' OF ANY PUBLIC WATER/WASTEWATER MAINLINES.

**NOTE:**  
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**KEY MAP**  
NOT TO SCALE

**WATER NOTES:**  
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LEGEND			
	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

REVIEW:  
PREPARED UNDER THE DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CANFIELD P.E. #29794

DATE 02/22/22

**CLASSIC CONSULTING**

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

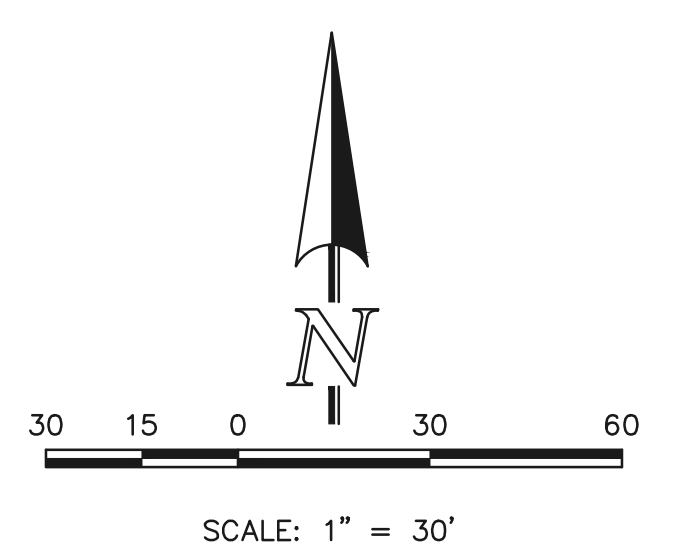
(719) 785-0790  
(719) 785-0799 (Fax)

FOREST LAKES FILING NO. 7 PUBLIC 8" PVC WATER SYSTEM PLAN			
DESIGNED BY	BB	SCALE	DATE 05/21/21
DRAWN BY	BB	(H) 1" = 30'	SHEET 6 OF 11
CHECKED BY		(V) 1" = N/A	JOB NO. 1175.70



N:\117570\DRAWINGS\CONSTRUCTION\UTILITIES\06-117570-WAT.dwg, 2/26/2022 4:22:39 PM, 1:1

MATCHLINE STA. 4+50.00 (SEE SHEET 6)



**NOTE:**  
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**STREET ABBREVIATION INDEX:**

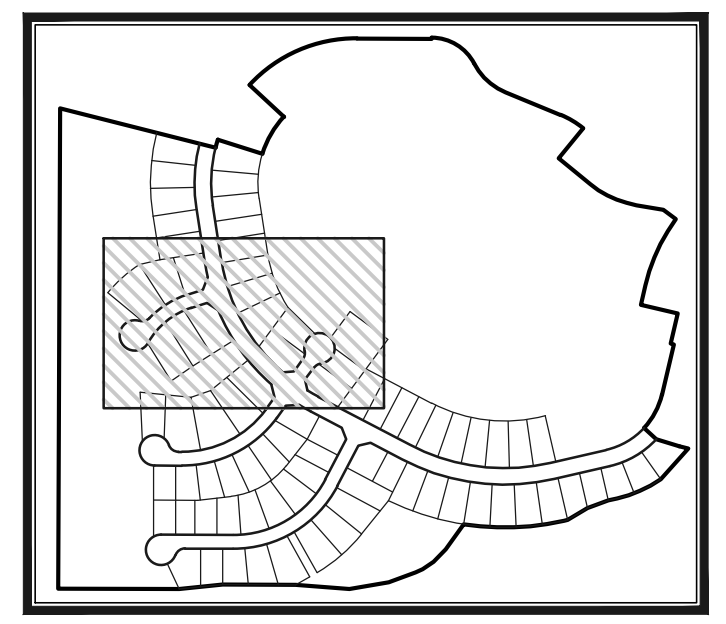
FOOTHILLS FLASH COURT	F.F.C.
HORSE TRADER PLACE	H.T.P.
MESA TOP DRIVE	M.T.D.
MOUNTAIN LEDGE LANE	M.L.L.

**WATER CURVE TABLE**

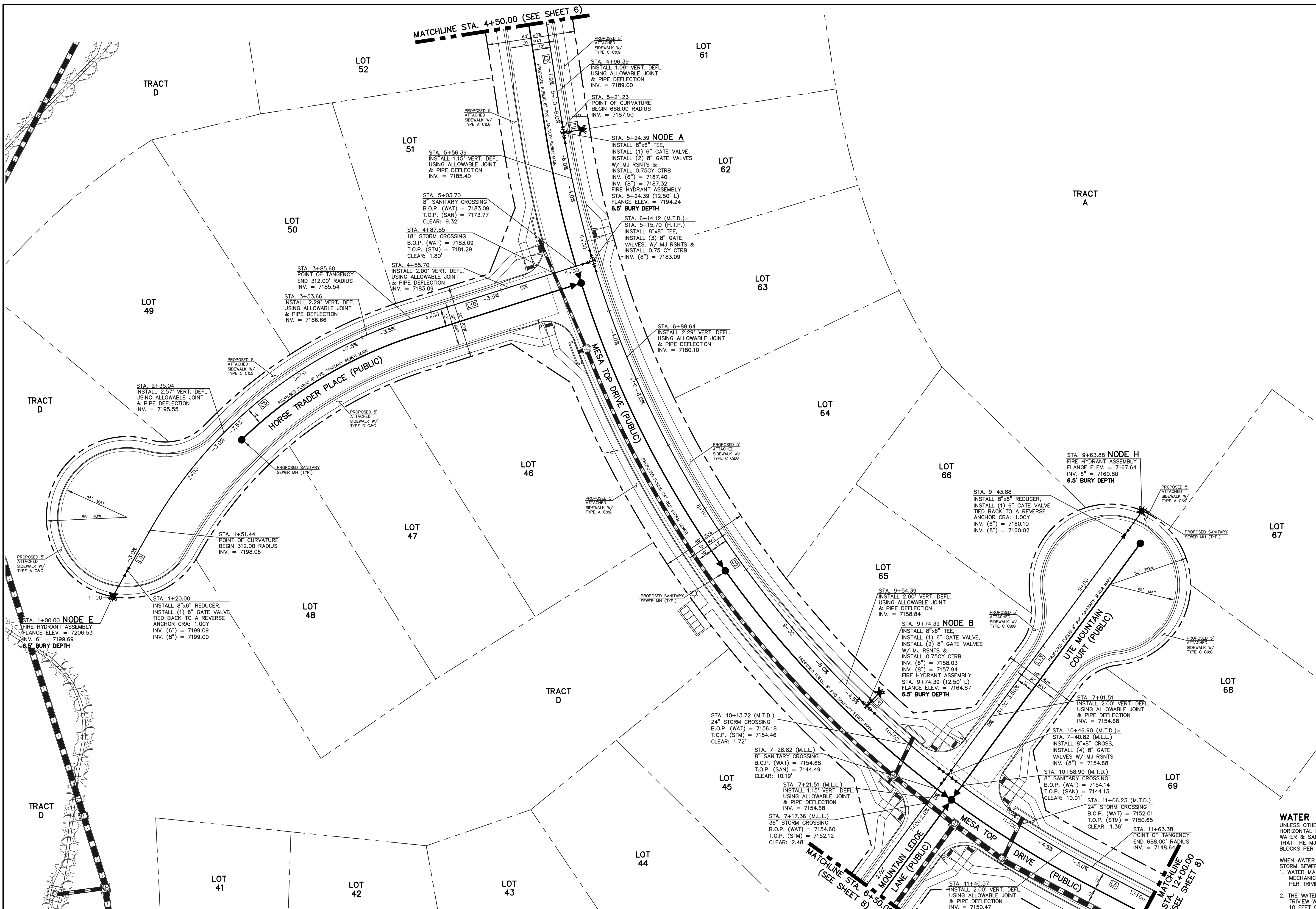
DELTA	LENGTH	RADIUS
C2	53'28.40"	642.15
C5	43'00.00"	234.15
		688.00
		312.00

**WATER LINE TABLE**

	LENGTH	BEARING
L2	205.50	N08°51'14"W
L3	12.50	S80°52'58"W
L4	12.50	N43°24'26"E
L5	374.00	N62°19'54"W
L9	51.44	S29°24'39"W
L10	130.10	S72°24'39"W
L13	348.66	N36°22'11"E



**WATER NOTES:**  
UNLESS OTHERWISE INDICATED, MJ RESTRAINTS WILL BE USED ON ALL HORIZONTAL BENDS. MJ RESTRAINED PIPE LENGTHS ARE BASED ON TRIVEAU WATER & SANITATION DISTRICT SPECIFICATIONS. IF DETERMINED IN THE FIELD THAT THE MJ RESTRAINTS WILL NOT WORK THEN USE CONCRETE THRUST BLOCKS PER TRIVEAU WATER & SANITATION DISTRICT SPECIFICATIONS.  
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**LEGEND**

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
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	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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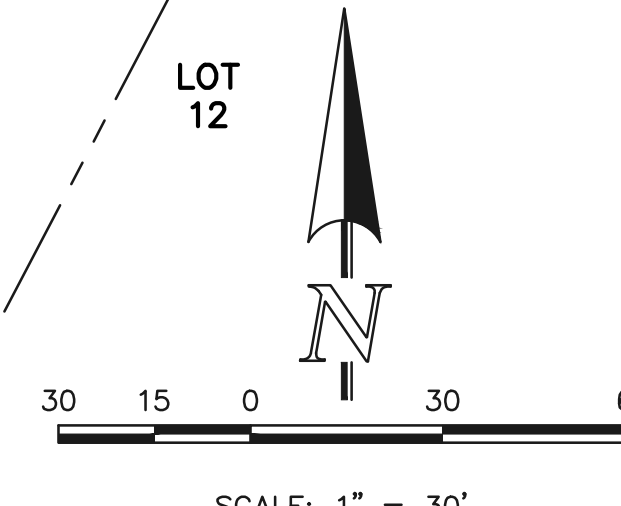
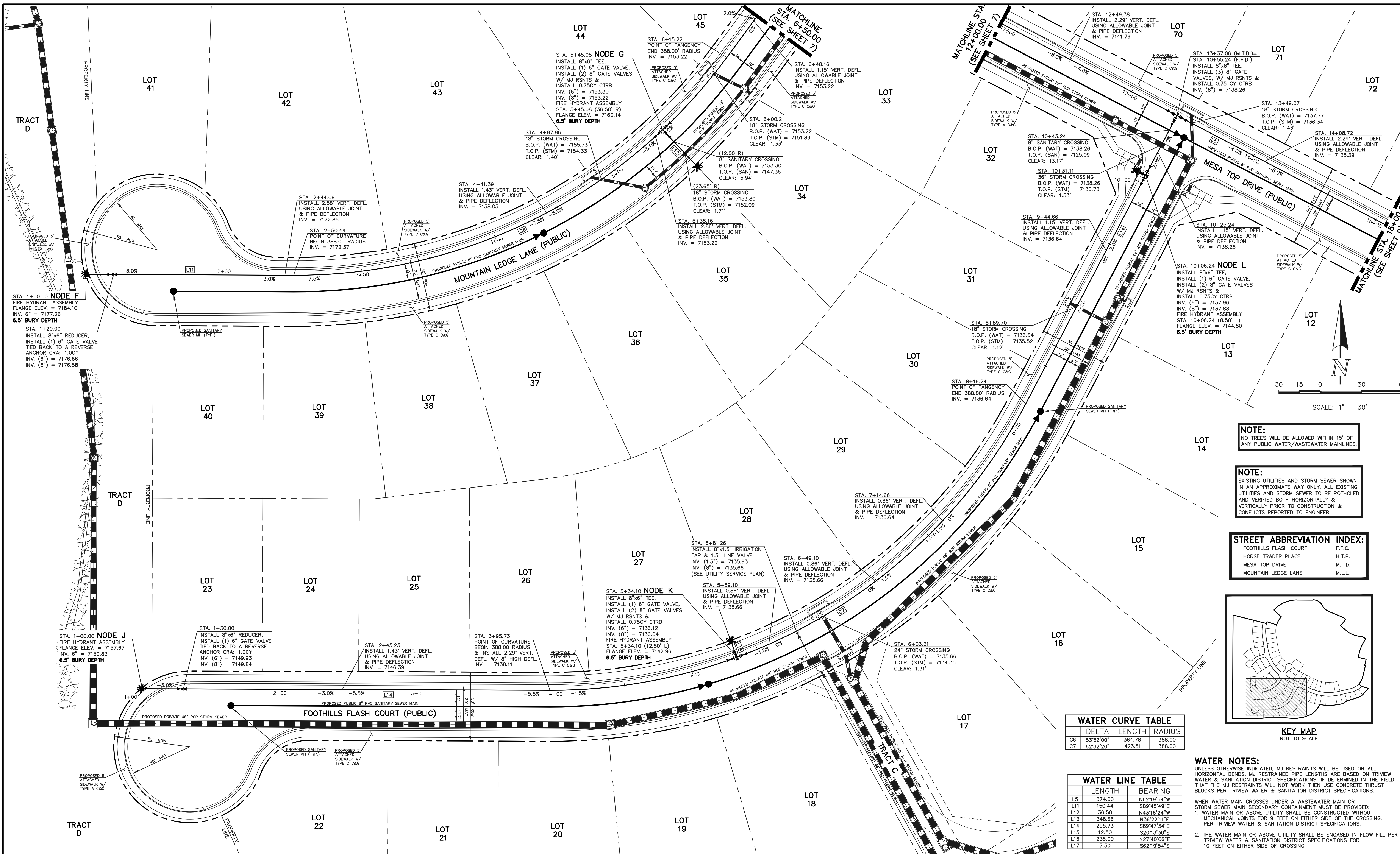
REVIEW:  
PREPARED UNDER THE SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC  
  
KYLE R. CANFIELD, P.E. #29794  
02/22/22  
DATE

**CLASSIC CONSULTING**  
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0799 (Fax)

FOREST LAKES FILING NO. 7  
PUBLIC 8" PVC WATER SYSTEM PLAN

DESIGNED BY	BB	SCALE	DATE	05/21/21
DRAWN BY	BB	(H) 1" = 30'	SHEET	7 OF 11
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70	

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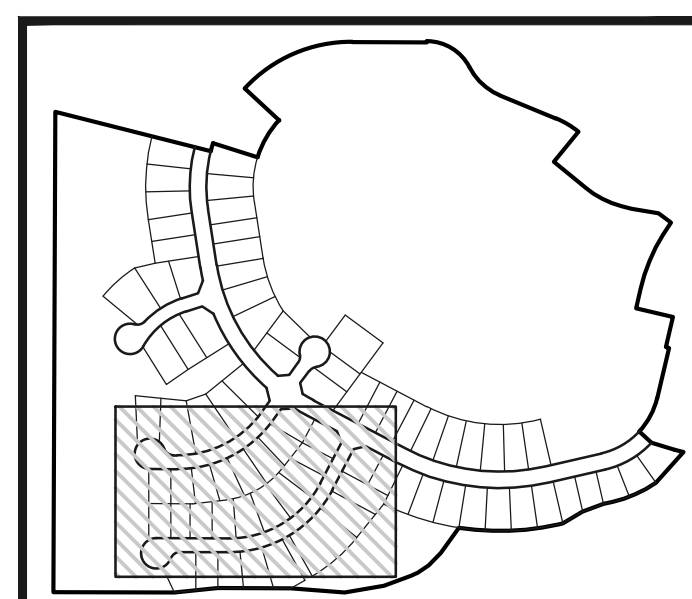


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**STREET ABBREVIATION INDEX:**

FOOTHILLS FLASH COURT	F.F.C.
HORSE TRADER PLACE	H.T.P.
MESA TOP DRIVE	M.T.D.
MOUNTAIN LEDGE LANE	M.L.L.



**WATER CURVE TABLE**

DELTA	LENGTH	RADIUS
C6	53°52'00"	364.78 388.00
C7	62°32'20"	423.51 388.00

**WATER LINE TABLE**

LENGTH	BEARING
L5	374.00 N62°19'54"W
L11	150.44 S89°45'49"E
L12	36.50 N43°16'24"W
L13	348.66 N36°22'11"E
L14	295.73 S89°47'34"E
L15	12.50 S20°13'30"E
L16	236.00 N27°40'06"E
L17	7.50 S62°19'54"E

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**LEGEND**

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
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	PROPOSED STORM INLET		EXISTING STORM INLET
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KYLE R. CANFIELD, P.E. #29794

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Colorado Springs, Colorado 80903

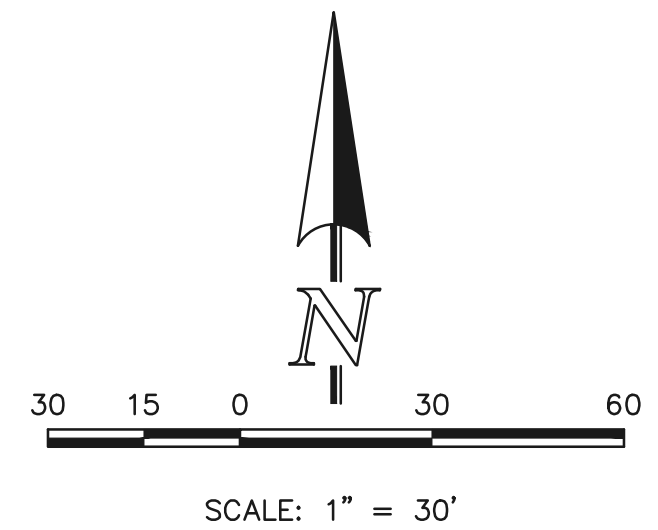
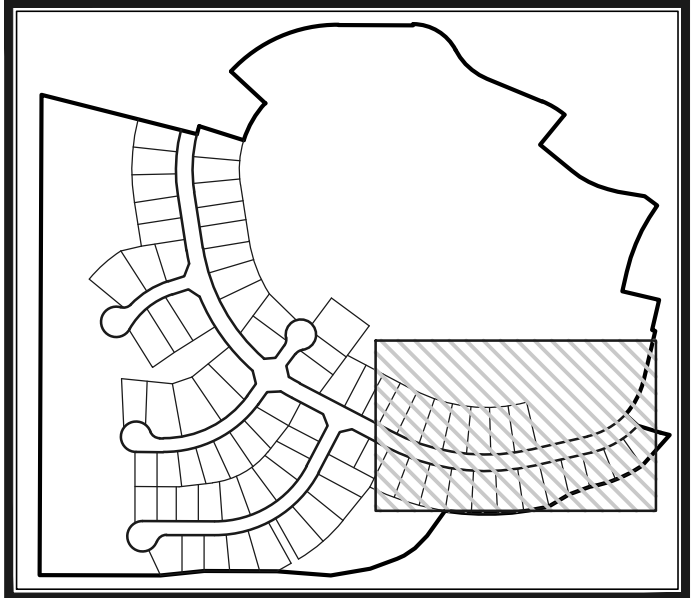
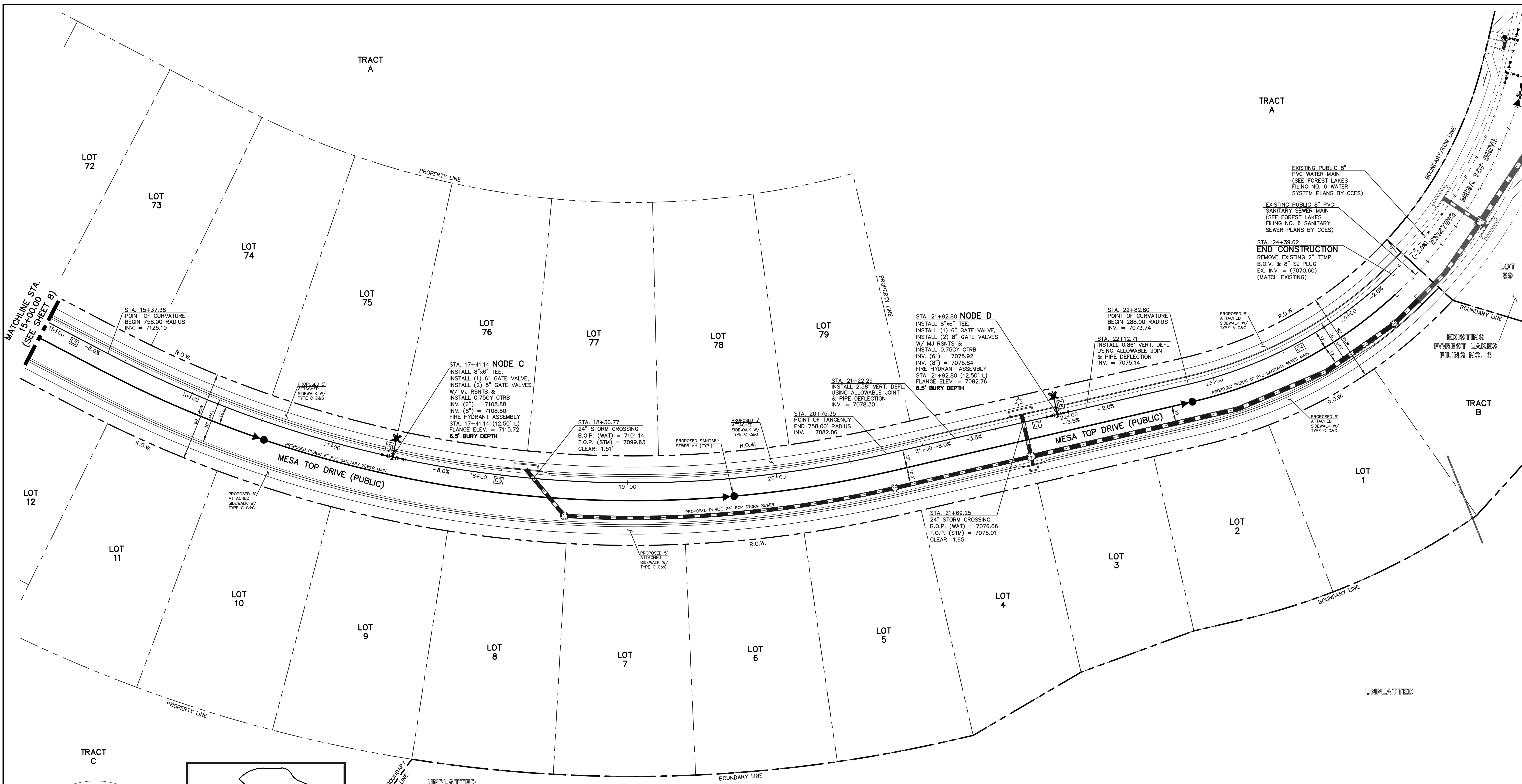
(719)785-0790  
(719)785-0799(Fax)

FOREST LAKES FILING NO. 7  
PUBLIC 8" PVC WATER SYSTEM PLAN

DESIGNED BY	BB	SCALE	DATE	05/21/21
DRAWN BY	BB	(H) 1" = 30'	SHEET	8 OF 11
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70	

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WATER CURVE TABLE			
	DELTA	LENGTH	RADIUS
C3	40°39'50"	537.97	758.00
C4	31°11'58"	156.83	288.00

WATER LINE TABLE		
	LENGTH	BEARING
L5	374.00	N62°19'54"W
L6	12.50	S12°16'00"W
L7	207.45	S77°00'16"W
L8	12.50	N12°59'44"W

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**LEGEND**

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	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
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KYLE R. CANFIELD P.E. #29794

02/22/22 DATE

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DESIGNED BY	BB	SCALE	DATE	05/21/21
DRAWN BY	BB	(H) 1" = 30'	SHEET	9 OF 11
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70	

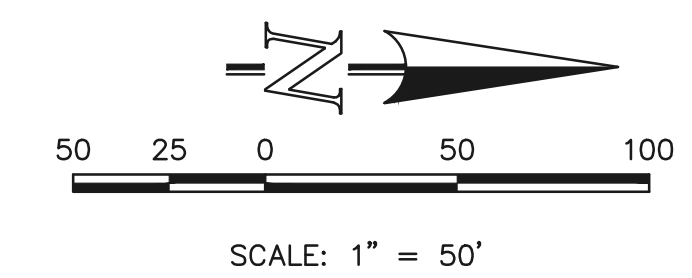
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EXISTING FOREST LAKES FILING NO. 6

EXISTING FOREST LAKES FILING NO. 6

UNPLATTED



**LEGEND**

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
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KYLE R. CAMPBELL P.E. #29794

DATE 02/22/22

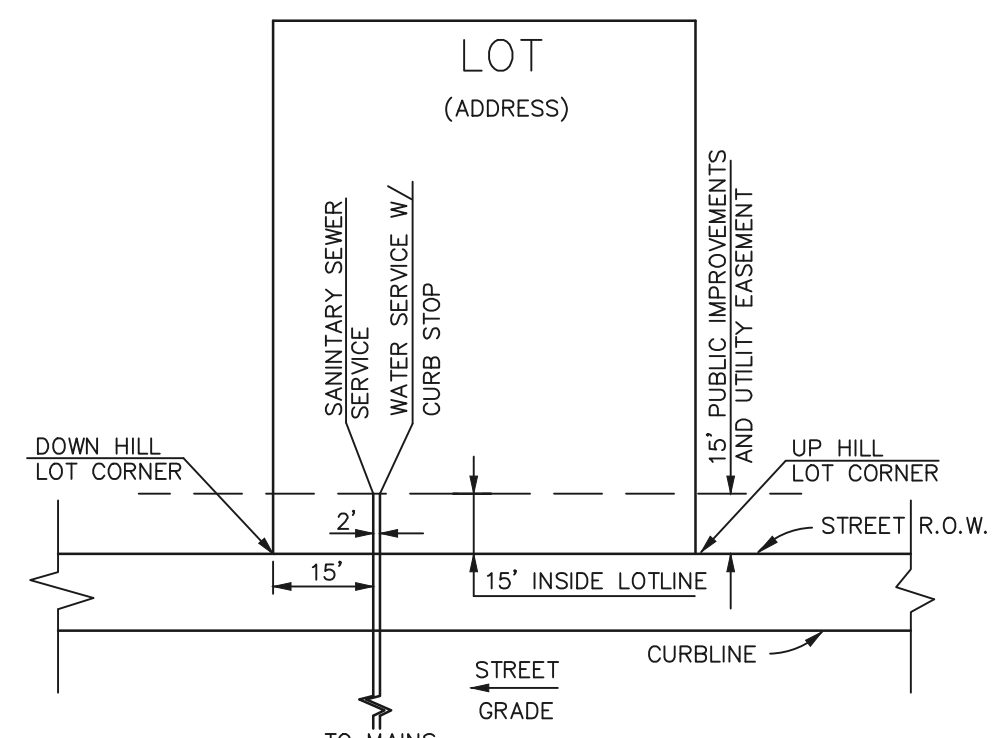
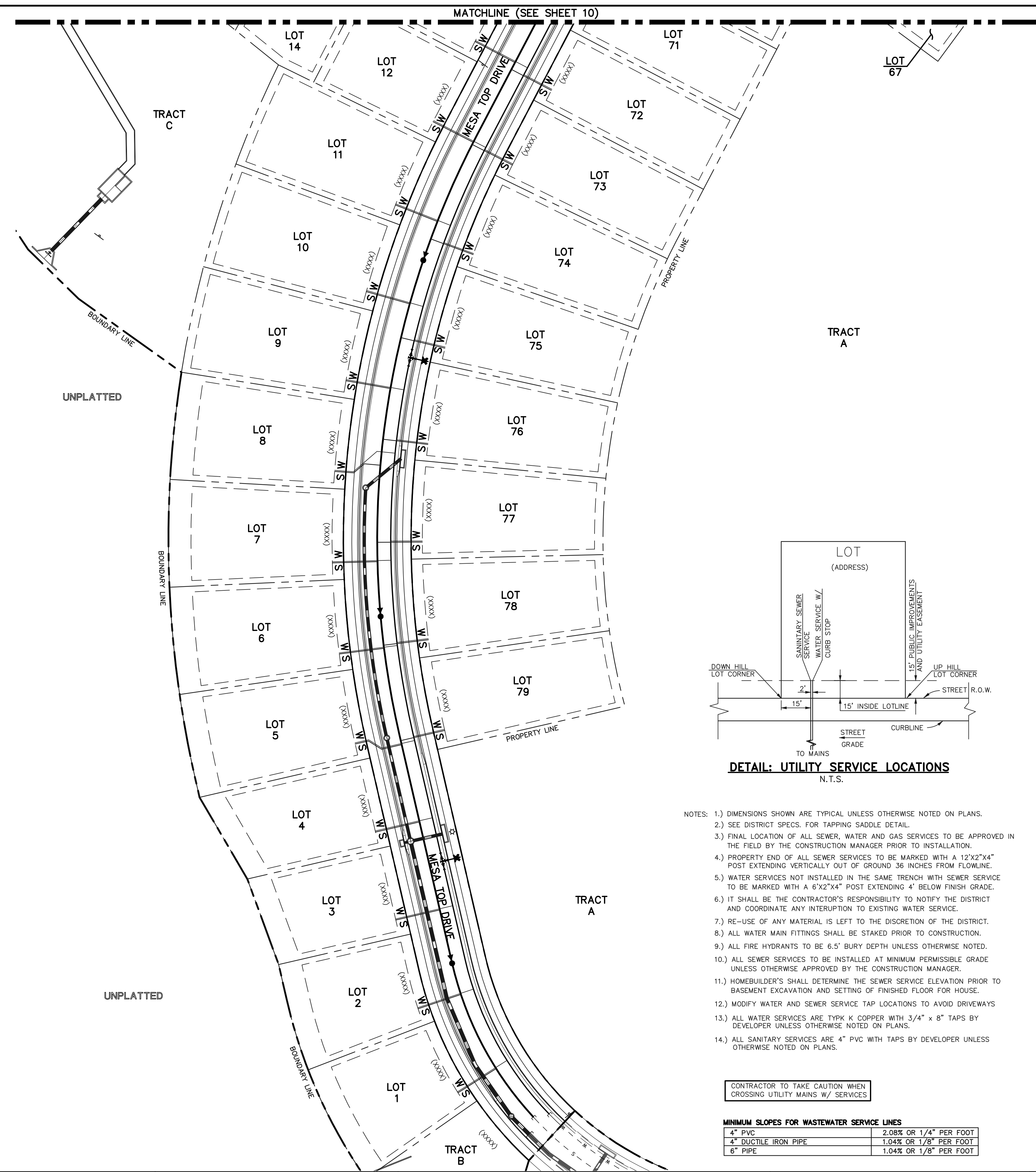
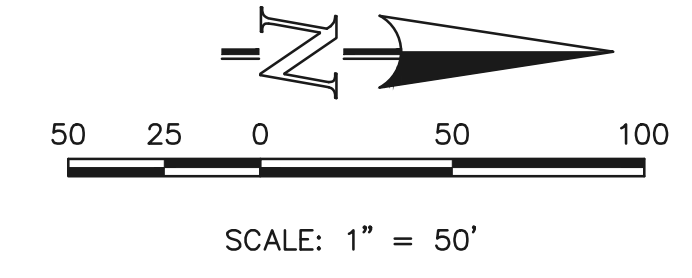
**CLASSIC CONSULTING**

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(719) 785-0799 (Fax)

FOREST LAKES FILING NO. 7 UTILITY SERVICE PLAN			
DESIGNED BY	BB	SCALE	DATE 05/21/21
DRAWN BY	BB	(H) 1" = 50'	SHEET 10 OF 11
CHECKED BY	(V)	1" = N/A	JOB NO. 1175.70

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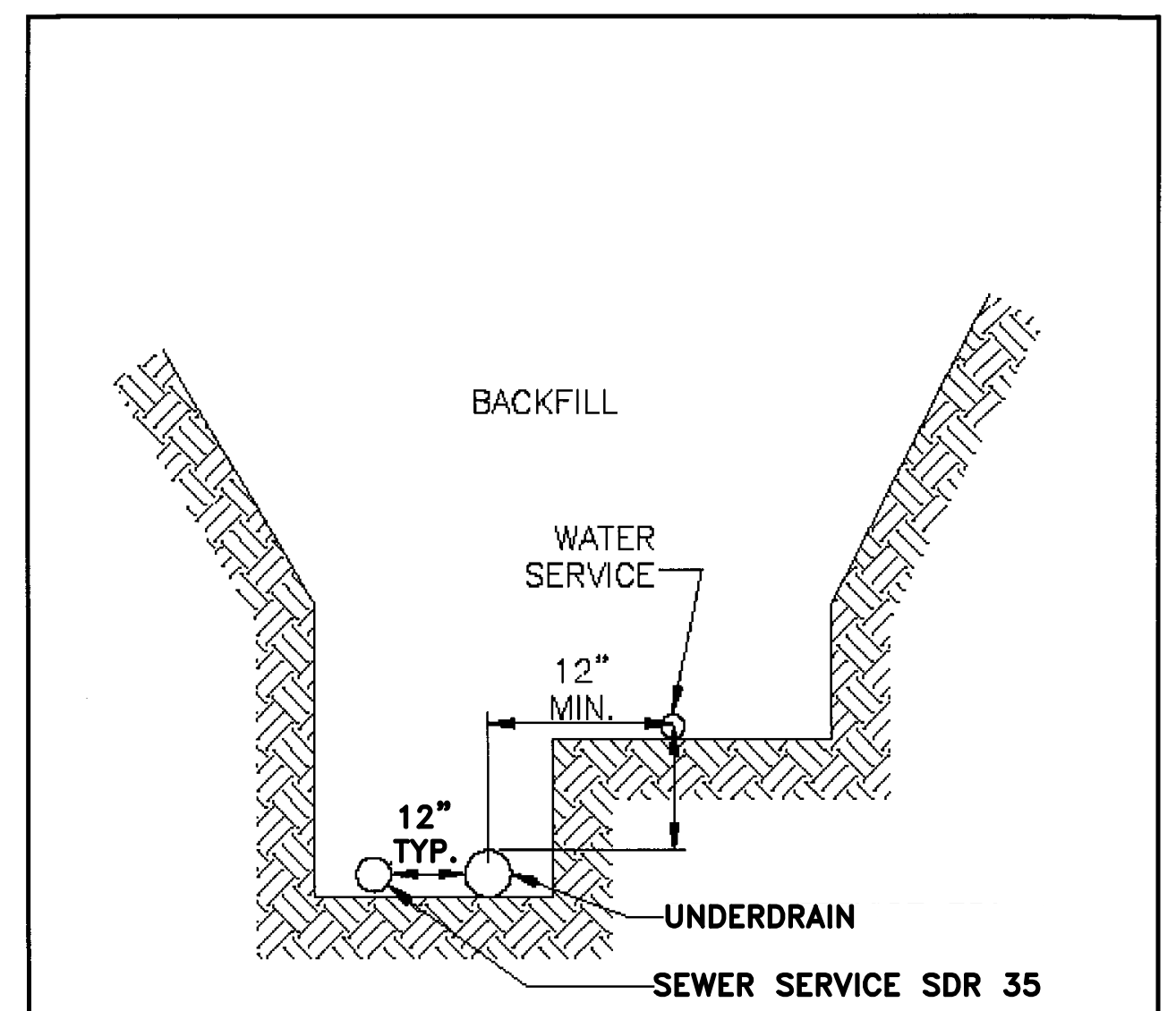
**DETAIL: UTILITY SERVICE LOCATIONS**  
N.T.S.

- NOTES:
- 1.) DIMENSIONS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
  - 2.) SEE DISTRICT SPECS. FOR TAPPING SADDLE DETAIL.
  - 3.) FINAL LOCATION OF ALL SEWER, WATER AND GAS SERVICES TO BE APPROVED IN THE FIELD BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
  - 4.) PROPERTY END OF ALL SEWER SERVICES TO BE MARKED WITH A 12"x2"x4" POST EXTENDING VERTICALLY OUT OF GROUND 36 INCHES FROM FLOWLINE.
  - 5.) WATER SERVICES NOT INSTALLED IN THE SAME TRENCH WITH SEWER SERVICE TO BE MARKED WITH A 6"x2"x4" POST EXTENDING 4" BELOW FINISH GRADE.
  - 6.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DISTRICT AND COORDINATE ANY INTERRUPTION TO EXISTING WATER SERVICE.
  - 7.) RE-USE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DISTRICT.
  - 8.) ALL WATER MAIN FITTINGS SHALL BE STAKED PRIOR TO CONSTRUCTION.
  - 9.) ALL FIRE HYDRANTS TO BE 6.5' BURY DEPTH UNLESS OTHERWISE NOTED.
  - 10.) ALL SEWER SERVICES TO BE INSTALLED AT MINIMUM PERMISSIBLE GRADE UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
  - 11.) HOMEBUILDER'S SHALL DETERMINE THE SEWER SERVICE ELEVATION PRIOR TO BASEMENT EXCAVATION AND SETTING OF FINISHED FLOOR FOR HOUSE.
  - 12.) MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS
  - 13.) ALL WATER SERVICES ARE TYPK K COPPER WITH 3/4" x 8" TAPS BY DEVELOPER UNLESS OTHERWISE NOTED ON PLANS.
  - 14.) ALL SANITARY SERVICES ARE 4" PVC WITH TAPS BY DEVELOPER UNLESS OTHERWISE NOTED ON PLANS.

CONTRACTOR TO TAKE CAUTION WHEN CROSSING UTILITY MAINS W/ SERVICES

MINIMUM SLOPES FOR WASTEWATER SERVICE LINES

4" PVC	2.08% OR 1/4" PER FOOT
4" DUCTILE IRON PIPE	1.04% OR 1/8" PER FOOT
6" PIPE	1.04% OR 1/8" PER FOOT



**TYPICAL COMMON SERVICE TRENCH SECTION**

DATE FEBRUARY 2011	SCALE NONE
<b>DETAIL 19</b>	



**LEGEND**

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

**48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811**

UTILITY NOTIFICATION CENTER OF COLORADO  
IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW:

PREPARED UNDER THE DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CANFIELD P.E. #29794

DATE 02/22/22



FOREST LAKES FILING NO. 7  
UTILITY SERVICE PLAN

DESIGNED BY	BB	SCALE	DATE	05/21/21
DRAWN BY	BB	(H) 1" = 50'	SHEET	11 OF 11
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70	



N:\117570\DRAWINGS\CONSTRUCTION\UTILITIES\1-117570-ISP.dwg, 2/24/2022, 10:45:38 AM, 1:1