

# STERLING RANCH EAST FILING NO. 3

COUNTY OF EL PASO, STATE OF COLORADO

## UTILITY CONSTRUCTION PLANS

JULY 2024

(SECTION 33, TOWNSHIP 12 SOUTH, RANGE 65 WEST)

### NOTES:

- ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT FALCON AREA WATER AND WASTEWATER AUTHORITY (FAWWA) THE AUTHORITY SPECIFICATIONS.
- ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE AUTHORITY AND THE AUTHORITY'S ENGINEER. ANY REVISION TO THE PLANS SHALL BE SO NOTED WITH THE OLD DRAWING MARKED NOT VALID.
- ALL STATIONING IS CENTER LINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTER LINE UNLESS OTHERWISE NOTED.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE AUTHORITY. THE AUTHORITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- ALL OVER-LOT GRADING MUST BE COMPLETED TO WITHIN ONE (1) FOOT OF FINAL GRADE PRIOR TO INSTALLATION OF WATER AND WASTEWATER INFRASTRUCTURE.
- ALL WATER AND SEWER SERVICE LOCATIONS SHALL BE CLEARLY MARKED ON EITHER THE CURB HEAD OR THE FACE OF THE CURB, WITH AN "S" FOR SEWER AND A "W" FOR WATER.
- DUCTILE IRON AND CARBON STEEL PIPES, INCLUDING FITTINGS, VALVES AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.
- ALL DUCTILE IRON AND CARBON STEEL PIPE LESS THAN 12 INCHES AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON AND CARBON STEEL PIPE 12 INCHES AND GREATER AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
- ALL PIPE MATERIAL, BACKFILL AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES AND THE GEOTECHNICAL ENGINEER.
- COMPACTION TESTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE AUTHORITY OR HIGHER STANDARD AS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE AUTHORITY FOR REVIEW AND APPROVAL.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE AUTHORITY SHALL BE NOTIFIED OF ANY DEVIATIONS TO THE LINE AND/OR GRADE AS DEPICTED ON THE PLANS. CONTRACTOR SHALL SUBMIT TO THE AUTHORITY AND THE ENGINEER OF RECORD A REPORT OF THE FIELD VERIFIED INFORMATION PRIOR TO THE START OF CONSTRUCTION.
- ALL BENDS SHALL BE FIELD STAKED PRIOR TO THE START OF CONSTRUCTION.
- BENDS, DEFLECTION & CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5" FROM THE DESIGNED ALIGNMENT. CONSTRUCTION STAKES TO BE AT 25' INTERVALS ALONG CURVES TO SURE LOCATION OF PIPE LINE CONSTRUCTION.
- AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS.
- ALL UNUSED SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE AUTHORITY AS REQUESTED.
- AT THE CONTRACTORS EXPENSE, ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY SHALL FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTORS OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR BY THE AUTHORITY AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
- PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY BOTH THE AUTHORITY AND THE AUTHORITY ENGINEER PRIOR TO EXECUTION.
- THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND GUTTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
- ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE AUTHORITY AS AN ADDITIONAL INSURED AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE AUTHORITY NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE AUTHORITY'S OFFICE.
- THE CONTRACTOR SHALL NOTIFY THE AUTHORITY AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, AUTHORITY ENGINEER AND ALL OTHER PARTIES AS DEEMED NECESSARY BY THE DISTRICT.
- COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN FAWWA:
  - PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING IS REQUIRED A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR AND DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE AUTHORITY TO SCHEDULE THE PRE-CONSTRUCTION MEETING. NO PRE-CONSTRUCTION MEETING CAN BE SCHEDULED PRIOR TO FOUR (4) SIGNED/APPROVED PLAN SETS BE RECEIVED BY THE AUTHORITY.
  - THE CONTRACTOR IS REQUIRED TO NOTIFY THE AUTHORITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
- TESTING OF FACILITIES:
  - THE CONTRACTOR SHALL NOTIFY THE AUTHORITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
  - ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS
    - TEST 100% OF ALL LINES
    - MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS).
  - ALL SANITARY SEWER FACILITIES ARE TO MEET THE FOLLOWING TESTING REQUIREMENTS
    - ALL LINES SHALL BE JET CLEANED PRIOR TO VACUUM OR PRESSURE TESTING
    - ALL MANHOLES SHALL BE VACUUM TESTED WITH AUTHORITY STAFF PRESENT PRIOR TO CCTV INSPECTION.
    - SEWER MAINS TO BE PRESSURE TEST PRIOR TO CCTV INSPECTION
    - ALL LINES SHALL BE CCTV INSPECTED AND VIDEO SHALL TO BE SUBMITTED TO THE AUTHORITY FOR REVIEW AND APPROVAL.
- PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN THE TIME THAT AUTHORITY ACCEPTS THE FACILITY FOR USE. ALL SURFACE IMPROVEMENTS AND RESTORATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMMENCEMENT OF SERVICE. THE AUTHORITY, AT THEIR DISCRETION, MAY ELECT TO COMPLETE THE IMPROVEMENTS AT THE CONTRACTORS COST.
- FINAL ACCEPTANCE BY THE AUTHORITY OF ANY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS THE WARRANTY PERIOD FOR ALL FACILITIES PRIOR TO FINAL ACCEPTANCE SHALL BE 24 MONTHS COMMENCING AFTER PRELIMINARY ACCEPTANCE.
- ACCEPTANCE:
  - THE AUTHORITY MAY GIVE PRELIMINARY ACCEPTANCE ONCE ALL OF THE TESTS ON ALL THE LINES HAVE BEEN COMPLETED AND A WALK-THRU HAS OCCURRED.
  - A SECOND ACCEPTANCE MAY OCCUR ONCE FIRST LIFT OF ASPHALT GOES DOWN AND A SECOND WALK-THRU OF THE SYSTEM OCCURS. IF ALL FACILITIES ARE CLEAN AND ACCESSIBLE, A FINAL ACCEPTANCE MAY OCCUR (THE AUTHORITY MAY REQUIRE CLEANING AND RE-VIDEO OF THE SYSTEM, DEPENDING ON THE SEVERITY OF THE CONTAMINATION).
- ALL WATER AND SEWER MAINS, INCLUDING SERVICES LINES, SHALL HAVE "AS-BUILT" DRAWINGS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE AUTHORITY.
- ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE AN EIGHT INCH (MIN.) WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS THE PROPERTY LINE. AN EIGHT INCH SEWER MAIN SHALL BE INSTALLED FOR SERVICE TO COMMERCIAL/BUSINESS DEVELOPMENTS, AND A MANHOLE SHALL BE LOCATED WHERE THE MAIN ENTERS THE PROPERTY. THE END OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATE COLORED CARBONITE MARKER WITH TRACER WIRE.
- AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES AND/OR SERVICES, CONSTRUCTION MUST BE COMMENCED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS.

### WATER SYSTEM INSTALLATION NOTES:

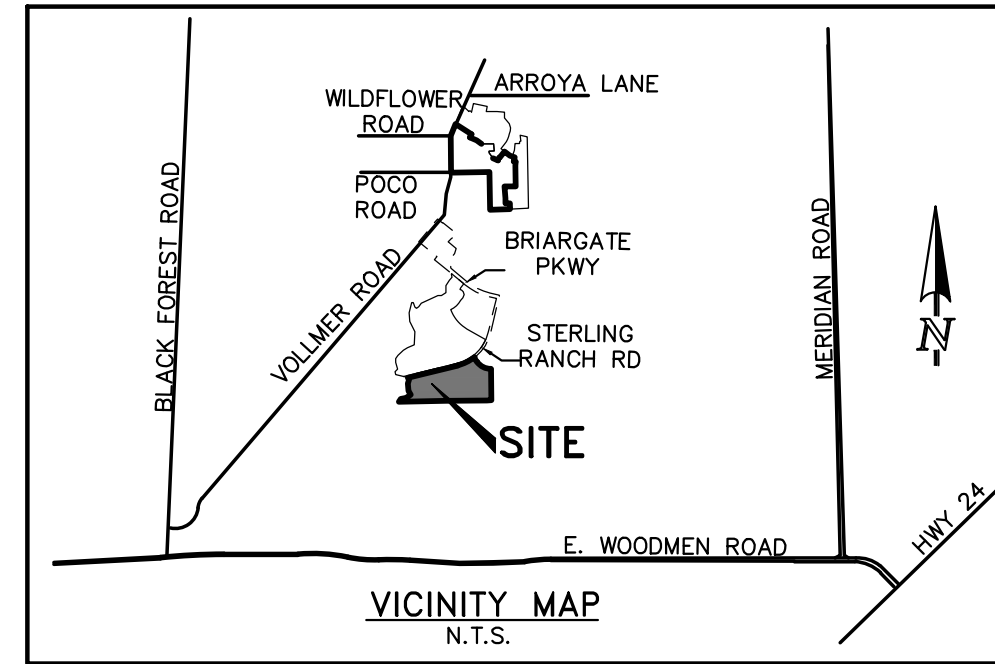
- ALL WATER AND FORCE MAIN PIPE SHALL BE AWWA C900 PVC, OR EQUAL, PRESSURE CLASS 200. ALL WATER AND FORCE MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER AND FORCE MAIN PIPE SHALL HAVE A MINIMUM COVER DEPTH OF FIVE AND ONE-HALF (5.5) FEET.
- ALL WATER VALVES ASSOCIATED WITH THE POTABLE WATER SYSTEM SHALL BE OPEN CLOCKWISE. ALL VALVES INSTALLED IN LANDSCAPED AREAS AND/OR NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARBONITE MARKERS. ALL VALVES ASSOCIATED WITH THE RAW WATER SYSTEM SHALL BE OPEN COUNTERCLOCKWISE AND MARKED WITH CARBONITE MARKERS AS APPLICABLE.
- THE DEVELOPER OR HIS ENGINEER SHALL LOCATE ALL FIRE HYDRANTS AND SERVICE STUB OUTS FOR FUTURE DEVELOPMENTS. ANY REQUIRED REALIGNMENT (HORIZONTAL OR VERTICAL), SHALL BE AT THE EXPENSE OF THE DEVELOPER. FIRE HYDRANT LOCATION SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE AUTHORITY.
- FIRE HYDRANTS SHALL BE OPEN RIGHT WITH 7/8" X 7/8" SQUARE TAPERED ALONG WITH SERVICE CAPS. LUBRICATION TYPE: (GREASE). ACCEPTABLE BRANDS ARE AMERICAN AVK SERIES 2700 (MODERN) AND KENNEDY HYDRANT. EACH FIRE HYDRANT SHALL ALSO BE USED AS TEST STATION.
- ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED #12 TRACER WIRE WITH TEST STATIONS AT INTERVALS NO GREATER THAN 500 FT (VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
- CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER LINE WITHOUT SHUTDOWN, OR ELSE NOTIFY THE AUTHORITY OF ANY SERVICE SHUTDOWNS NECESSARY TO CONNECT TO EXISTING LINES.
- IRRIGATION SERVICES SHALL HAVE A STOP AND WASTE CURB STOP VALVE INSTALLED ALONG WITH TRACER WIRE EXTENDING BACK TO THE MAIN LINE.
- COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:
  - NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, BAG-T TESTING, COMPACTION TESTING AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE AUTHORITY.
  - NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
  - ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE AUTHORITY AND RECORDED.

### BASIS OF BEARINGS:

CORNER OF SECTION 28, TOWNSHIP 12 EAST 1/16TH SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPLE MERIDIAN LOCATED AT SOUTHEAST CORNER OF VOLLMER ROAD AND POCO ROAD APPROXIMATELY 50 FEET SOUTH OF THE CENTERLINE OF POCO ROAD. ELEVATION = 7211.95

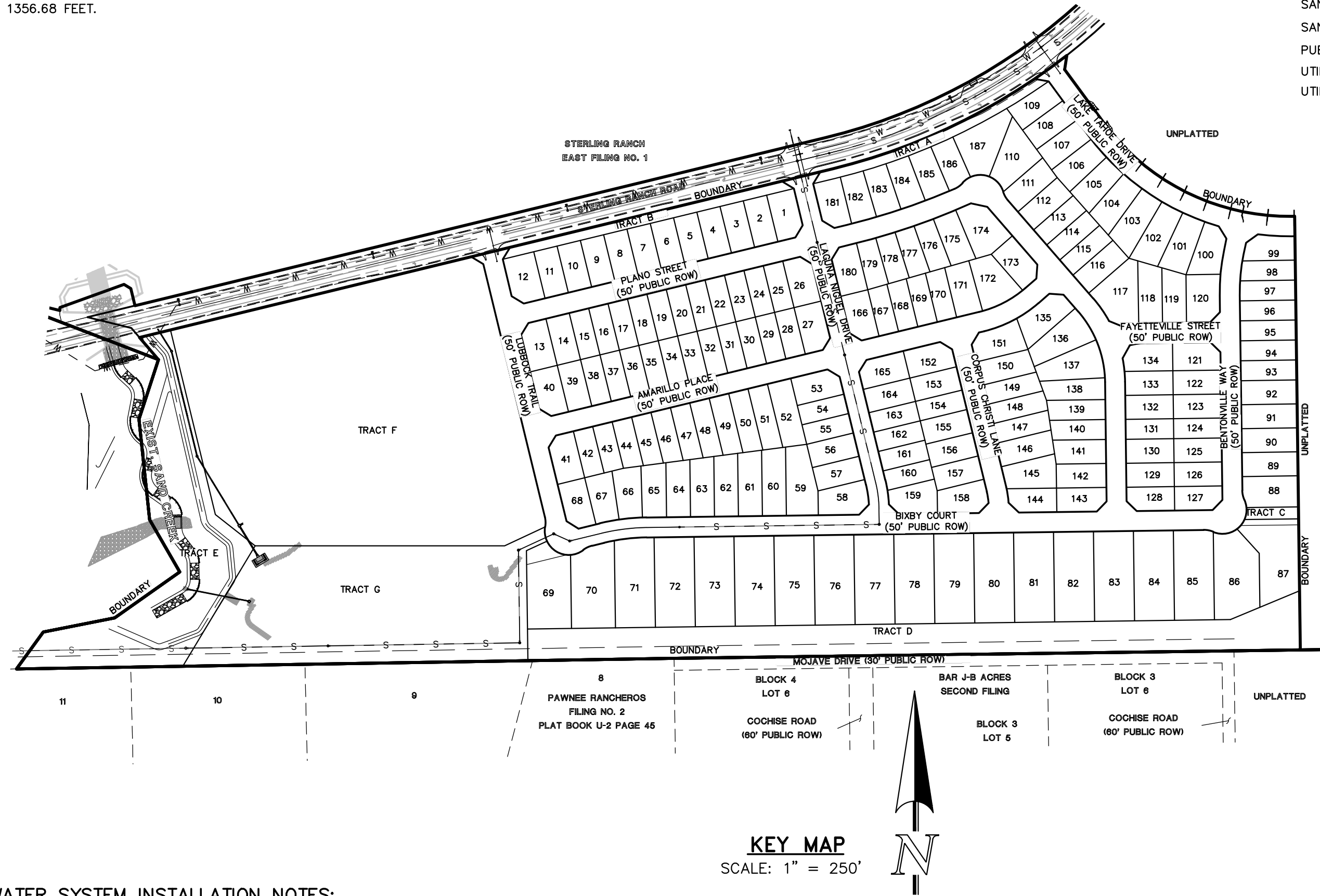
### BENCHMARKS:

THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE WEST END WHICH IS THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI PLS 10376, 2006" AND AT THE EAST END, WHICH IS A 30' WITNESS CORNER TO THE EAST OF THE EAST QUARTER CORNER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI 10376, 2006", IS ASSUMED TO BEAR N89°08'28"E, A DISTANCE OF 1356.68 FEET.



### NOTE:

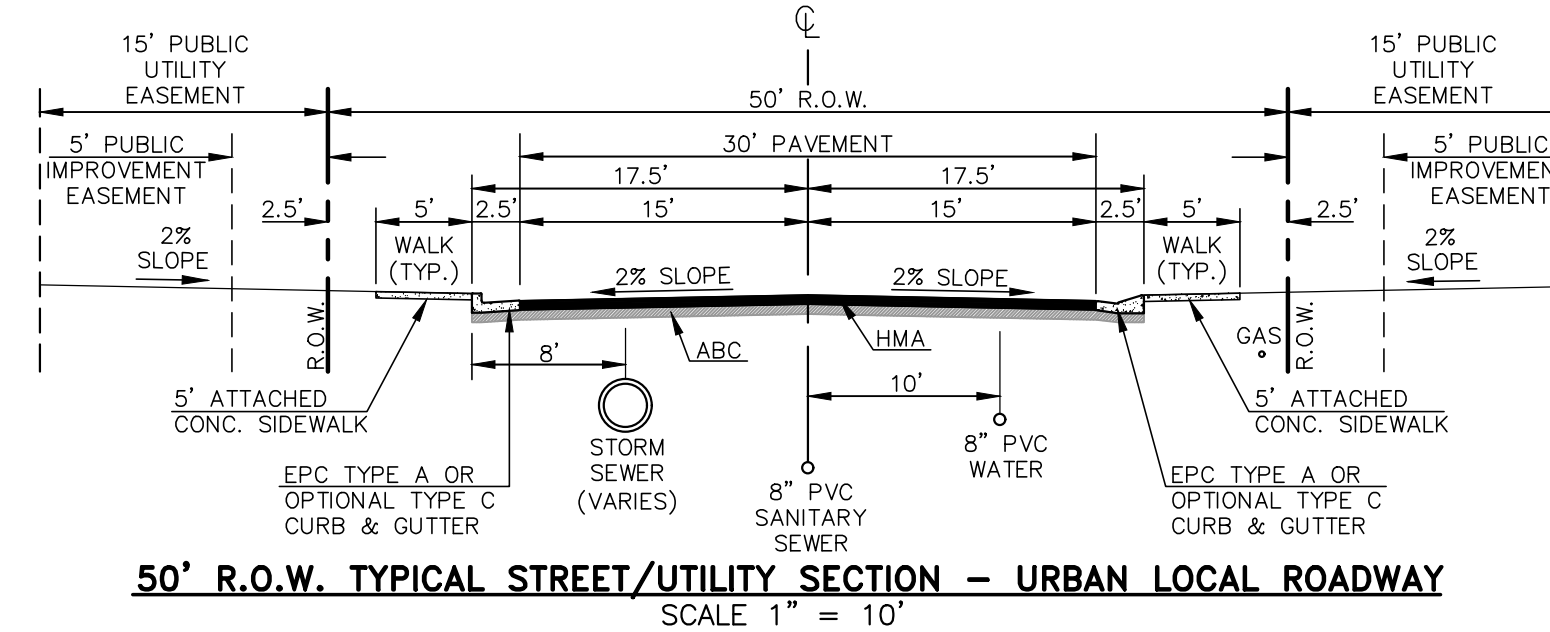
EL PASO COUNTY DOES NOT OWN AND IS NOT RESPONSIBLE FOR THE UNDERDRAINS OR GROUNDWATER DISCHARGE SYSTEMS SHOWN ON THESE PLANS AND ASSUMES NO LIABILITY FOR WATER RIGHTS ADMINISTRATION BY APPROVING THESE PLANS. MAINTENANCE AND WATER RIGHTS ARE THE RESPONSIBILITY OF THE DEVELOPER AND THE FALCON AREA WATER AND WASTEWATER AUTHORITY.



### WASTEWATER SYSTEM INSTALLATION NOTES:

- SANITARY SEWER LENGTHS ARE MH CENTER-MH CENTER. ALL SANITARY SEWER PIPES SHALL BE SDR 35 PVC OR EQUAL. SEWER LINES MAY NOT EXCEED 7% GRADE FOR ANY SIZE WITHOUT PRIOR APPROVAL OF THE AUTHORITY. ALL NEWLY CONSTRUCTED RESIDENTIAL SANITARY SEWER TAPS SHALL USE PRE-MANUFACTURED IN-LINE PVC PUSH-ON WYES. TAPPING SADDLES MAY ONLY BE USED FOR TAPPING PRE-EXISTING MAINS.
- ALL SANITARY SEWER MANHOLES SHALL BE WRAPPED WITH RU116 - RUBR-NEK JOINT WRAP OR EQUIVALENT AND COATED.
- COMMENCEMENT OF USE OF SEWER LINES AND/OR SYSTEMS:
  - NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL THE COMPLETION OF ALL JET CLEANING, PRESSURE TESTING, VACUUM TESTING, CCTV INSPECTION, COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE AUTHORITY.
  - NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, ANY REQUIRED SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
  - ALL NECESSARY EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE AUTHORITY, AND RECORDED.
  - DOWNSTREAM PLUG CAN BE REMOVED ONCE FIRST LIFT OF ASPHALT IS DOWN AND THE ABOVE REQUIREMENTS ARE MET.

THE ABOVE GUIDELINES ARE SUBJECT TO CHANGE AT ANY TIME.



### AGENCIES:

- DEVELOPER: CLASSIC SRJ LAND, LLC  
2138 FLYING HORSE CLUB DR.  
COLORADO SPRINGS, CO 80921  
MR. LOREN J. MORELAND (719) 592-9333
- CIVIL ENGINEER: CLASSIC CONSULTING ENGINEERS & SURVEYORS  
619 N. CASCADE AVENUE, SUITE 200  
COLORADO SPRINGS, CO 80903  
MR. MARC A. WHORTON, P.E. (719) 785-2802
- COUNTY ENGINEERING: EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT  
2880 INTERNATIONAL CIRCLE, SUITE 110  
COLORADO SPRINGS, CO 80910  
MS. CHARLENE DURHAM, (719) 520-7951
- WATER & SANITATION DISTRICT: FALCON AREA WATER AND WASTEWATER AUTHORITY
- FIRE DISTRICT: BLACK FOREST FIRE PROTECTION DISTRICT  
11445 TEACHOUT ROAD  
COLORADO SPRINGS, CO 80908  
CHIEF BRYAN JACK, (719) 495-4300
- GAS COMPANY: BLACK HILLS ENERGY  
37 WIDEFIELD BOULEVARD  
WIDEFIELD, COLORADO 80911  
MR. GEORGE M. PETERSON, (719) 392-3491
- ELECTRIC COMPANY: MOUNTAIN VIEW ELECTRIC  
P.O. BOX 1600  
LIMON, COLORADO 80828  
MR. LES ULFERS, (719) 495-2283
- TELEPHONE COMPANY: CENTURY LINK COMMUNICATIONS  
(LOCATORS) (800)-922-1987  
A.T.&T. (LOCATORS) (719) 635-3674

### TITLE SHEET

- |   |                    |
|---|--------------------|
| SANITARY SEWER PLAN - LUBBOCK TRAIL/PLANO STREET              | SHEET 1 OF 16      |
| SANITARY SEWER PLAN - PLANO STREET                            | SHEET 2 OF 16      |
| SANITARY SEWER PLAN - AMARILLO PLACE                          | SHEET 3 OF 16      |
| SANITARY SEWER PLAN - BIXBY COURT/BENTONVILLE WAY             | SHEET 4 OF 16      |
| SANITARY SEWER PLAN - BENTONVILLE WAY/ LAKE TAHOE DRIVE       | SHEET 5 OF 16      |
| SANITARY SEWER PLAN - CORPUS CHRISTI LANE/FAYETTEVILLE STREET | SHEET 6 OF 16      |
| PUBLIC 8" PVC WATER SYSTEM PLAN                               | SHEET 7 OF 16      |
| UTILITY SERVICE PLAN AND DETAILS                              | SHEETS 8-12 OF 16  |
| UTILITY SERVICE PLAN  | SHEETS 13-16 OF 16 |

### 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 CONFORMANCE 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 ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

MARC A. WHORTON, COLORADO P.E. #37155  
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

DATE

#### OWNER/DEVELOPER STATEMENT:

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

LOREN J. MORELAND  
CLASSIC SRJ LAND, LLC  
2138 FLYING HORSE CLUB DR.  
COLORADO SPRINGS, CO 80921

DATE

#### BLACK FOREST FIRE PROTECTION DISTRICT:

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO THE BLACK FOREST 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.

FOR AND ON BEHALF OF BLACK FOREST FIRE PROTECTION DISTRICT

DATE

#### 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.

JOSHUA PALMER, P.E. COUNTY ENGINEER / EGM ADMINISTRATOR

DATE

#### ENGINEERING APPROVALS

THE FALCON AREA WATER AND WASTEWATER AUTHORITY RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

#### FALCON AREA WATER AND WASTEWATER AUTHORITY WATER AND WASTEWATER DESIGN APPROVAL

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER AND/OR WASTEWATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "GENERAL NOTES" SHALL RULE.

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 MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155

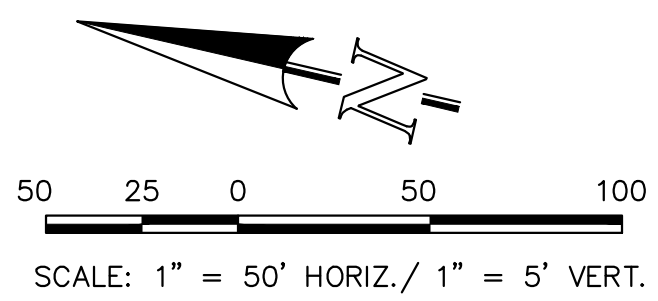
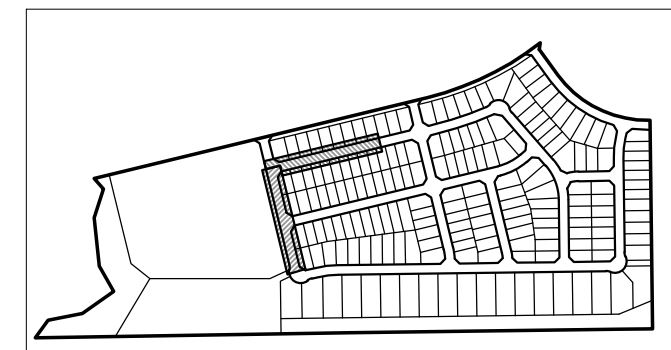
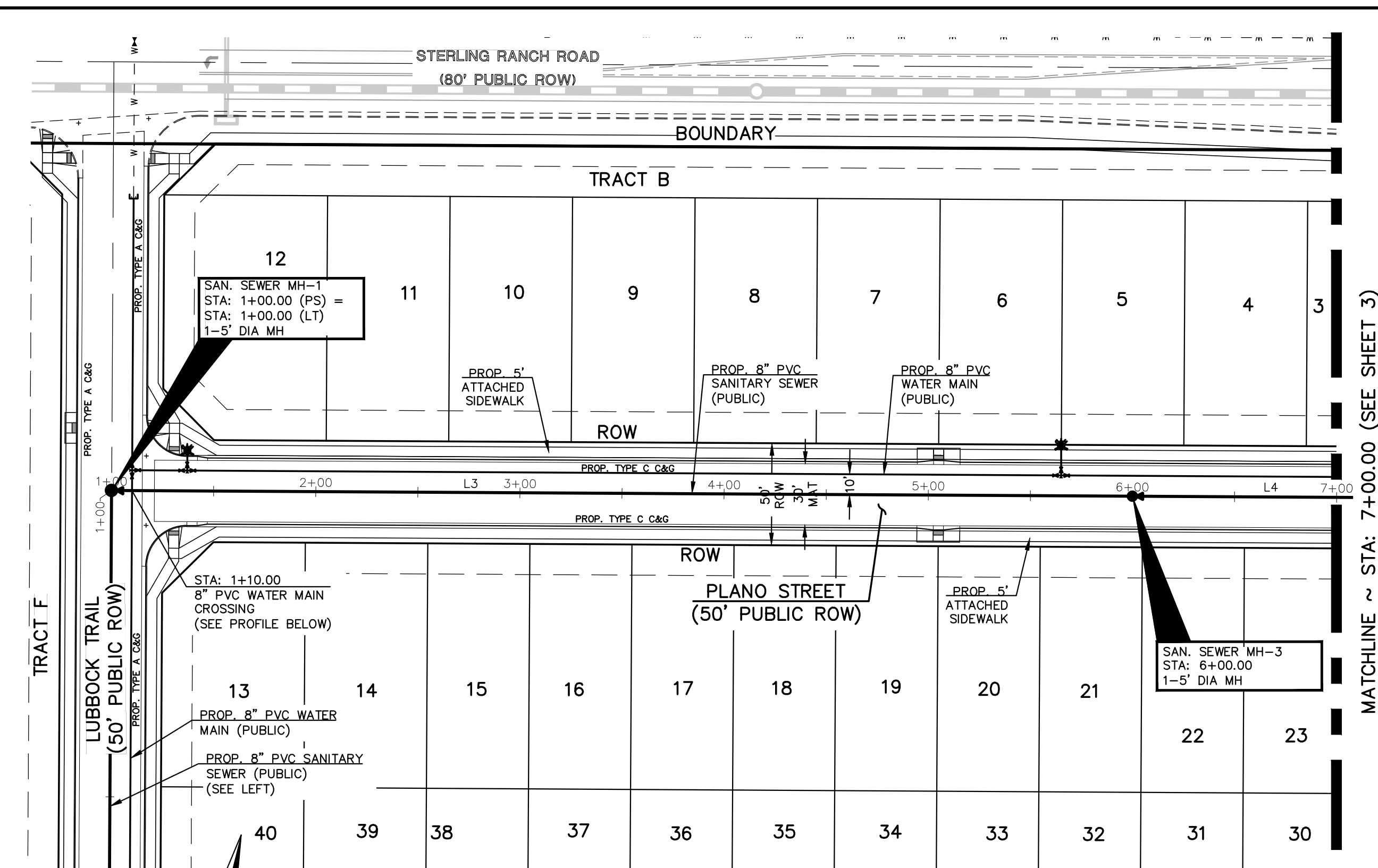
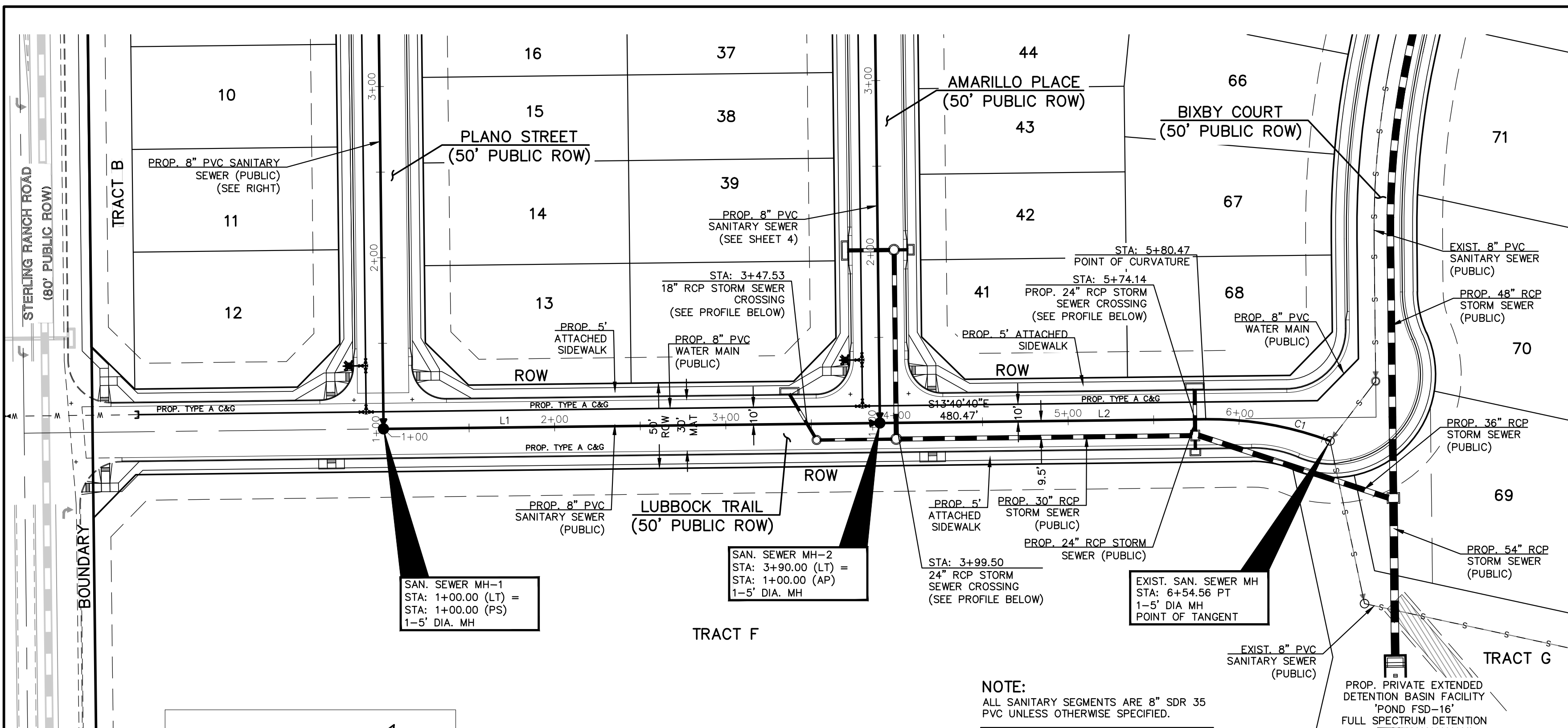
DATE



STERLING RANCH EAST  
FILING NO. 3  
UTILITY CONSTRUCTION PLANS  
TITLE SHEET

DESIGNED BY	ESO	SCALE	DATE	3/22/2024
DRAWN BY	ESO	(H) 1" = N/A	SHEET	1 OF 16
CHECKED BY	(V) 1" = N/A	JOB NO.	1183.33	



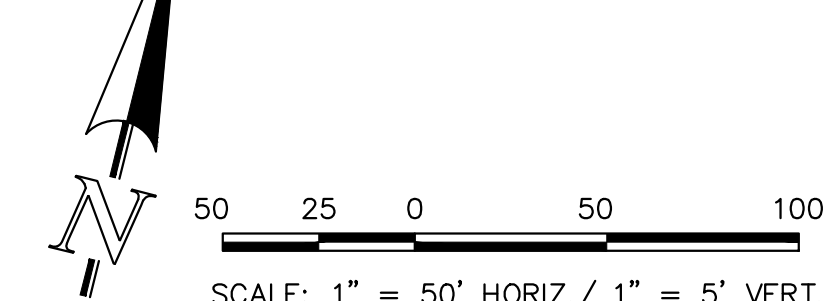


**NOTE:**  
ALL SANITARY SEGMENTS ARE 8" SDR 35 PVC UNLESS OTHERWISE SPECIFIED.

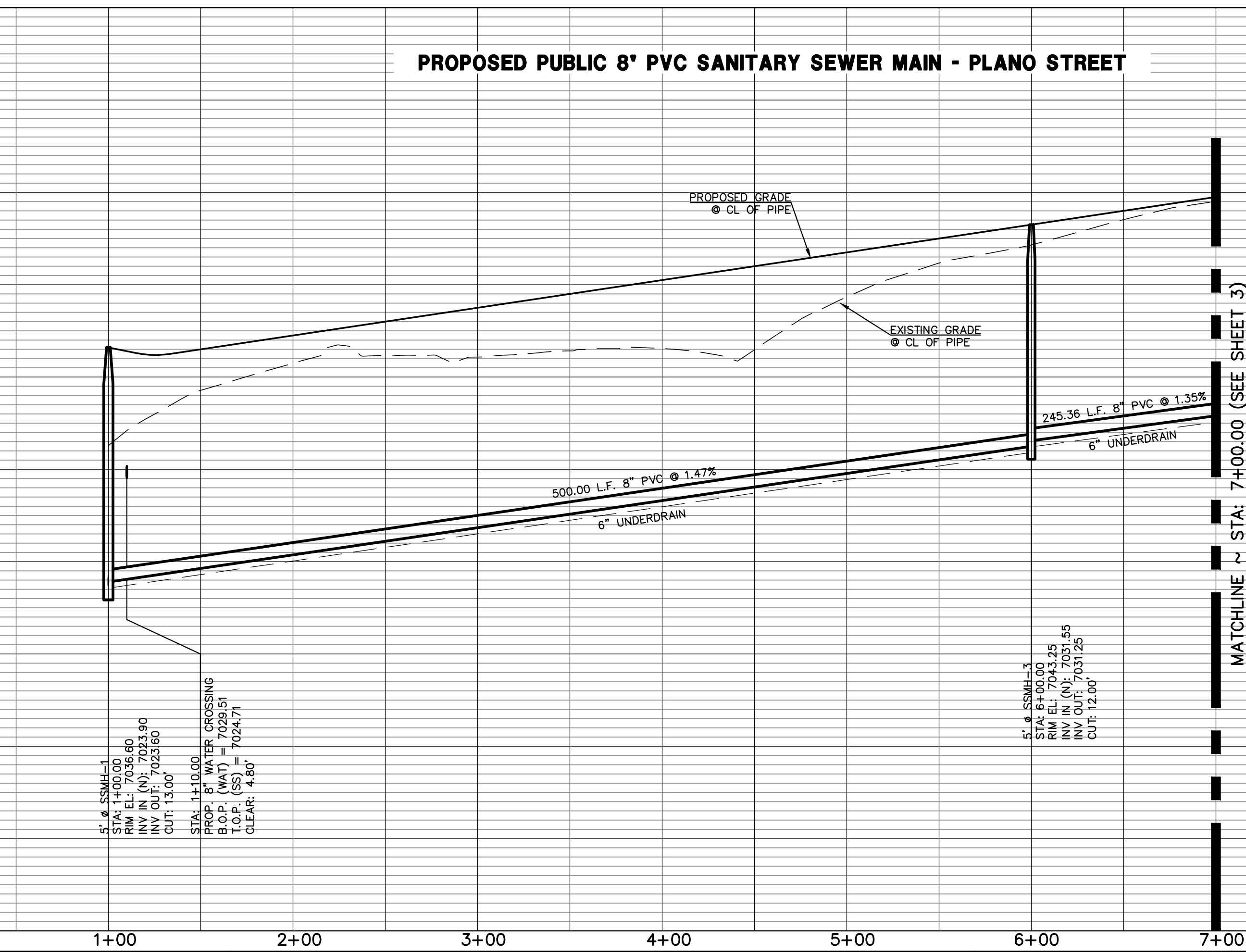
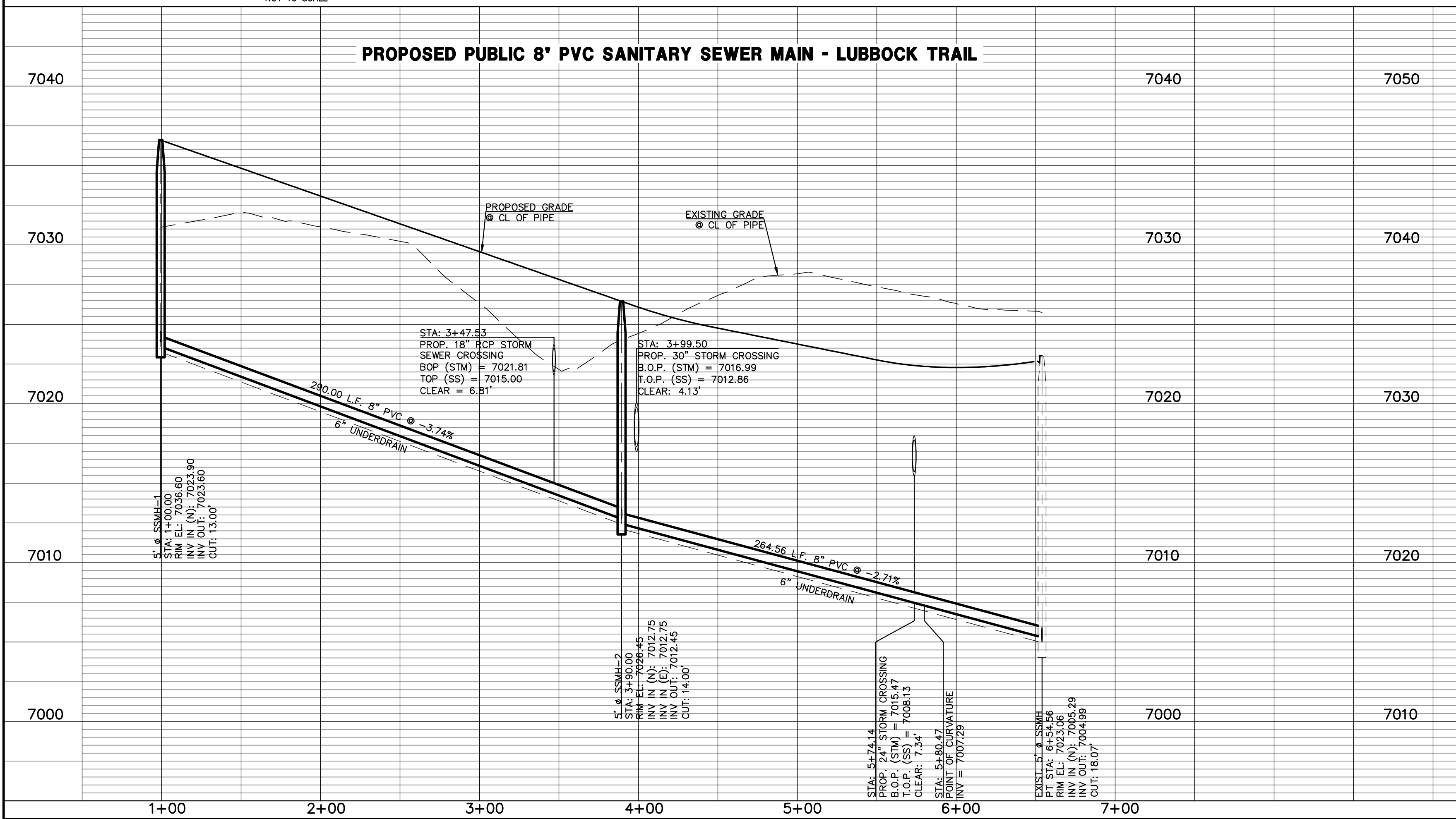
LINE	LENGTH	BEARING
L1	290.00	S13°40'40"E
L2	190.47	S13°40'40"E
L3	500.00	N76°19'20"E
L4	245.36	N76°19'20"E

SANITARY CURVE	DELTA	LENGTH	RADIUS
C1	21°13'32"	74.09	200.00



**NOTE:**  
EXISTING UTILITIES AND STORM SEWER SHOWN IN AN APPROXIMATE WAY ONLY. ALL EXISTING UTILITIES AND STORM SEWER TO BE POTHOLED AND VERIFIED BOTH HORIZONTALLY & VERTICALLY PRIOR TO CONSTRUCTION & CONFLICTS REPORTED TO ENGINEER.



**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 MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

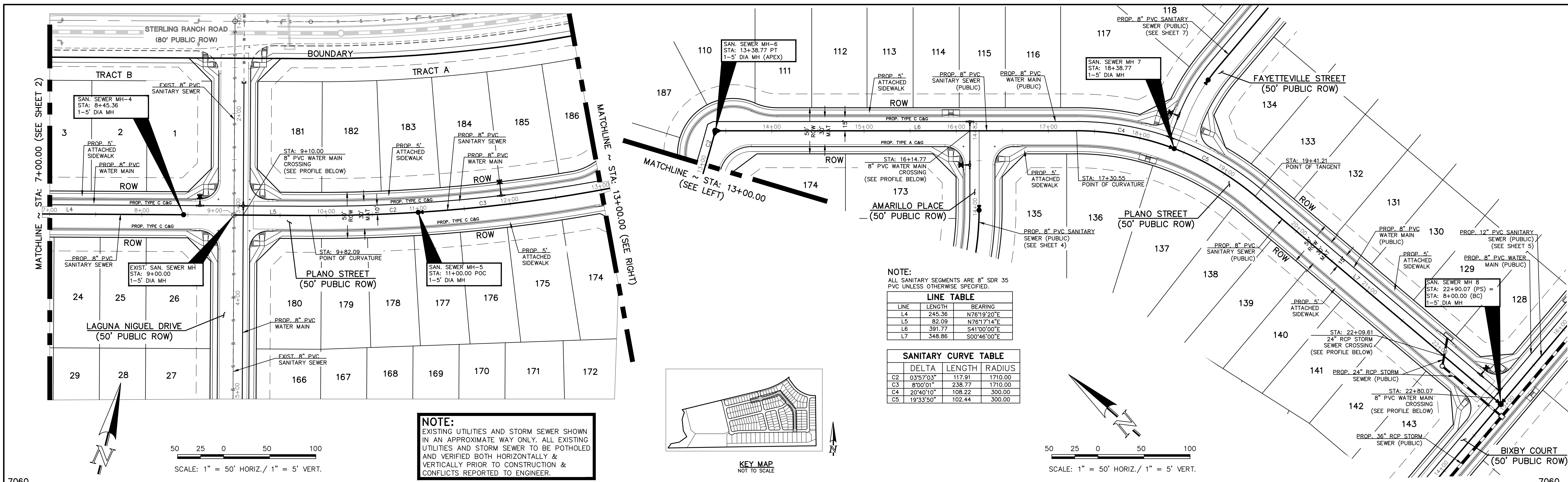
MARC A. WHORTON, COLORADO P.E. #37155      DATE

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

STERLING RANCH EAST  
FILING NO. 3

SANITARY SEWER PLAN

DESIGNED BY	ESO	SCALE	DATE	3/22/2024
DRAWN BY	ESO	(H) 1" = 50'	SHEET	2 OF 16
CHECKED BY	(V) 1" = 5'	JOB NO.	1183.33	



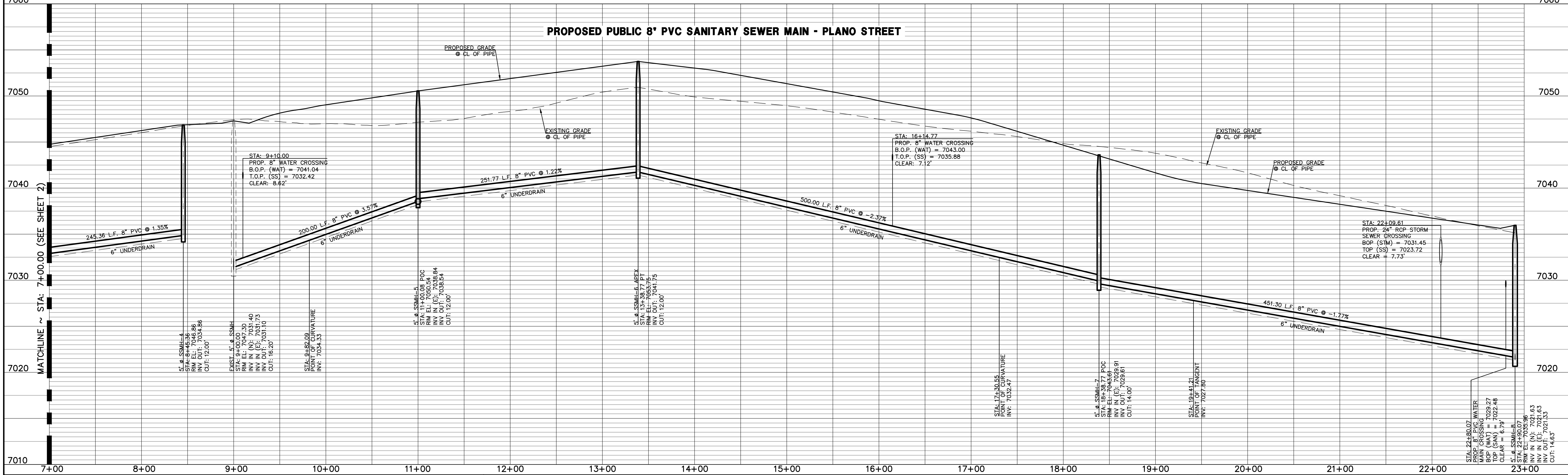
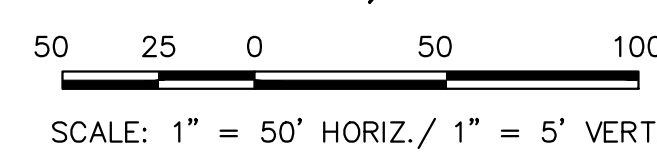
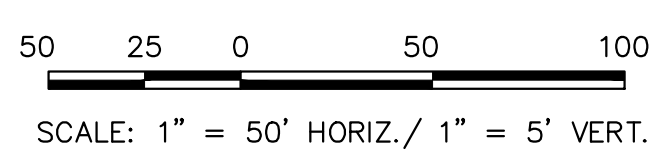
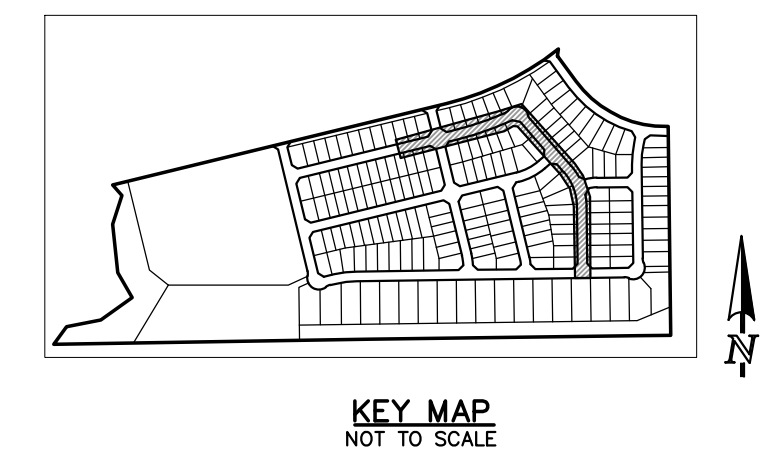
NOTE:  
ALL SANITARY SEGMENTS ARE 8" SDR 35 PVC UNLESS OTHERWISE SPECIFIED.

LINE	LENGTH	BEARING
L4	245.36	N76°19'20"E
L5	82.09	N76°17'14"E
L6	391.77	S41°00'00"E
L7	348.86	S00°46'00"E

SANITARY CURVE	DELTA	LENGTH	RADIUS
C2	03°57'03"	117.91	1710.00
C3	8°00'01"	238.77	1710.00
C4	20°40'10"	108.22	300.00
C5	19°33'50"	102.44	300.00

**NOTE:**  
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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

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

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NO.	REVISION	DATE

REVIEW:

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

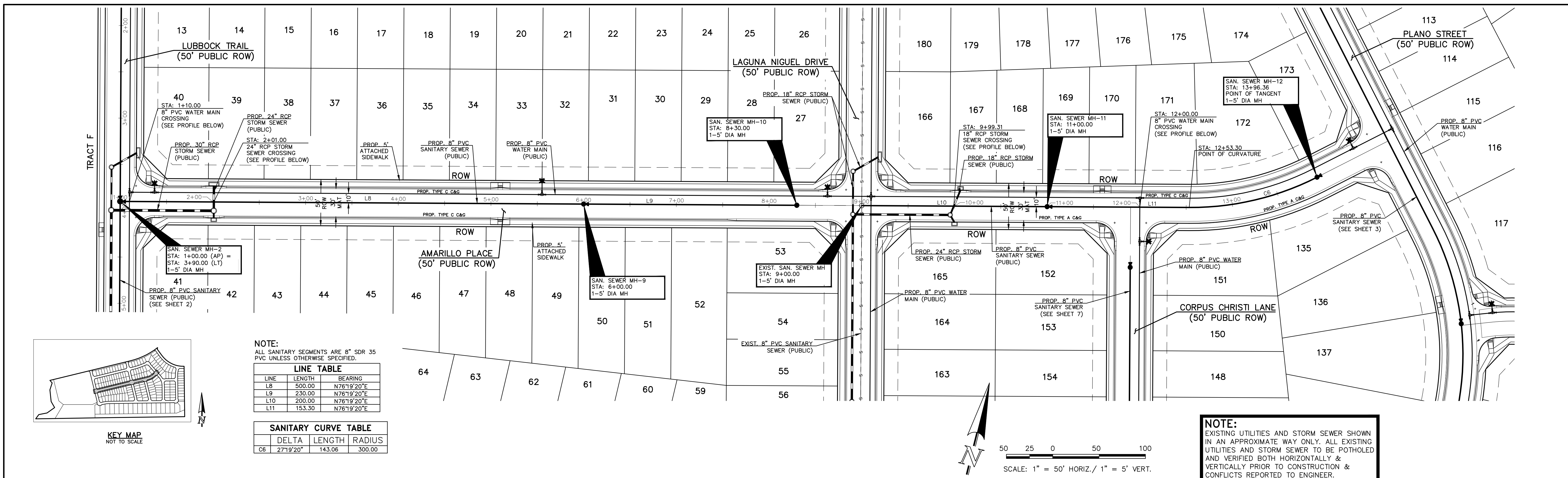
MARC A. WHORTON, COLORADO P.E. #37155      DATE

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

STERLING RANCH EAST  
FILING NO. 3

SANITARY SEWER PLAN

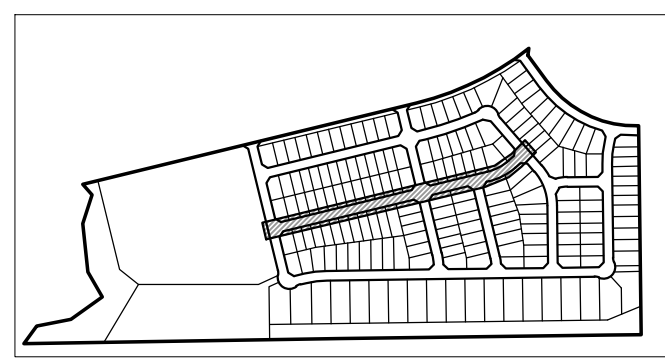
DESIGNED BY	ESO	SCALE	DATE	3/22/2024
DRAWN BY	ESO	(H) 1" = 50'	SHEET	3 OF 16
CHECKED BY	(V) 1" = 5'	JOB NO.	1183.33	



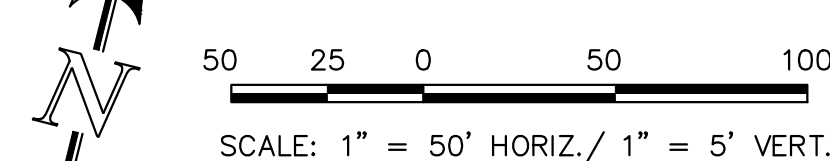
NOTE:  
ALL SANITARY SEGMENTS ARE 8" SDR 35  
PVC UNLESS OTHERWISE SPECIFIED.

LINE	LENGTH	BEARING
L8	500.00	N76°19'20"E
L9	230.00	N76°19'20"E
L10	200.00	N76°19'20"E
L11	153.30	N76°19'20"E

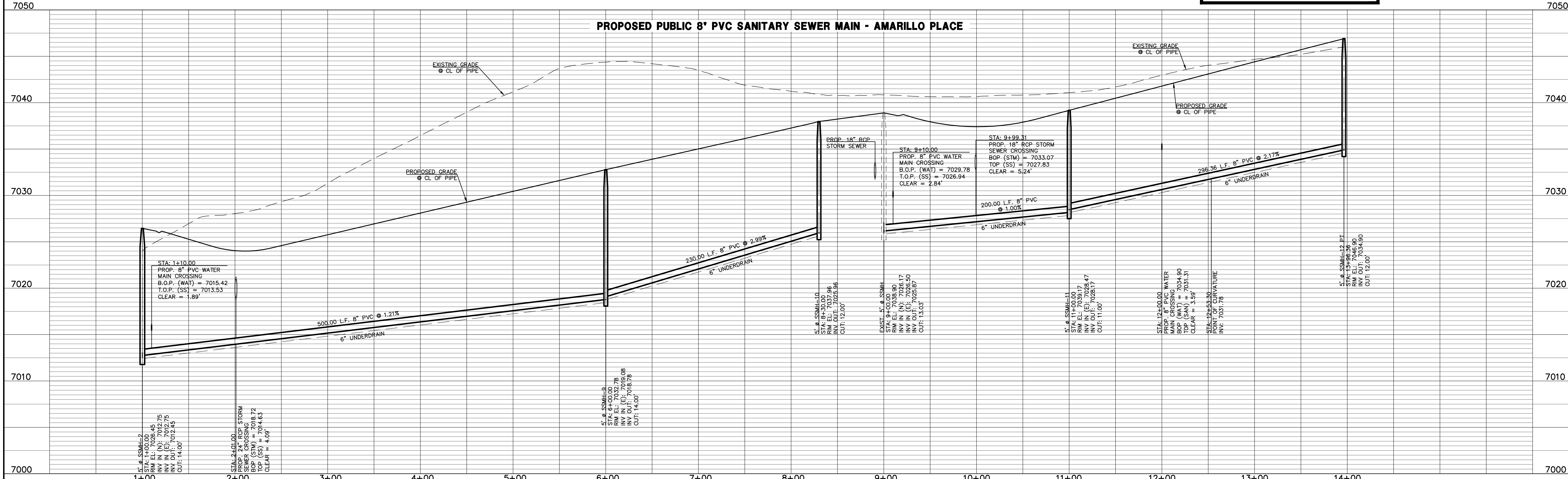
SANITARY CURVE TABLE		
DELTA	LENGTH	RADIUS
C6	27°19'20"	143.06
		300.00



KEY MAP  
NOT TO SCALE



NOTE:  
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IN AN APPROXIMATE WAY ONLY. ALL EXISTING  
UTILITIES AND STORM SEWER TO BE POTHOLED  
AND VERIFIED BOTH HORIZONTALLY &  
VERTICALLY PRIOR TO CONSTRUCTION &  
CONFLICTS REPORTED TO ENGINEER.



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

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NO.	REVISION	DATE

REVIEW:

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

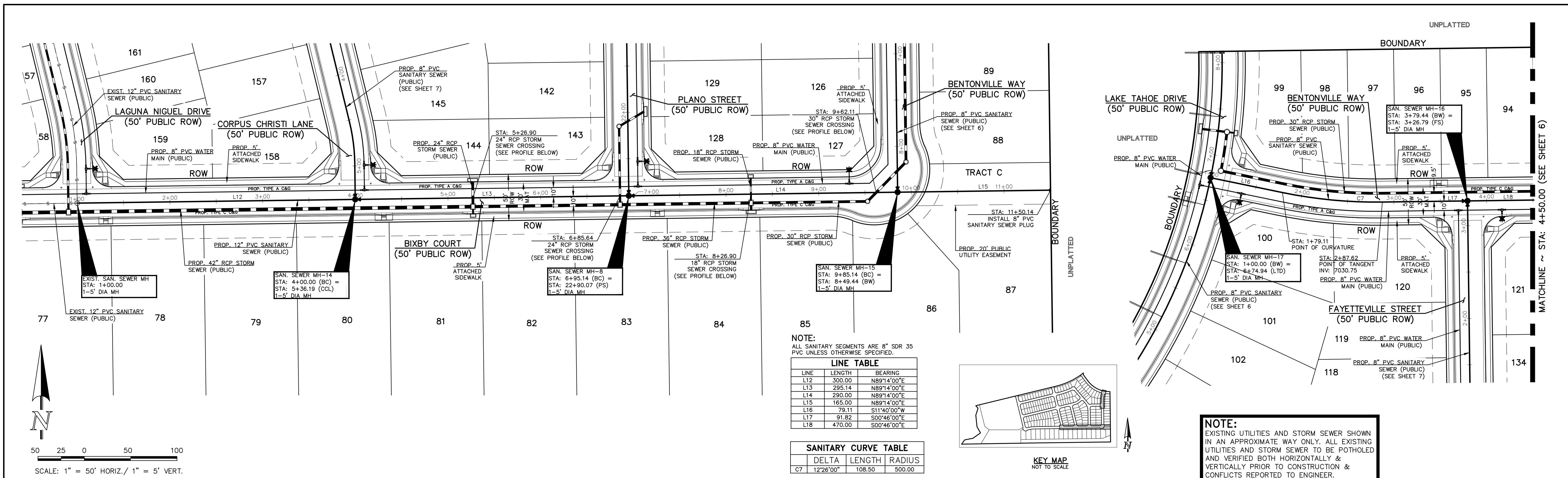
MARC A. WHORTON, COLORADO P.E. #37155      DATE



STERLING RANCH EAST  
FILING NO. 3

SANITARY SEWER PLAN

DESIGNED BY	ESO	SCALE	DATE	3/22/2023
DRAWN BY	ESO	(H) 1" = 50'	SHEET	4 OF 16
CHECKED BY	(V) 1" = 5'	JOB NO.	1183.33	

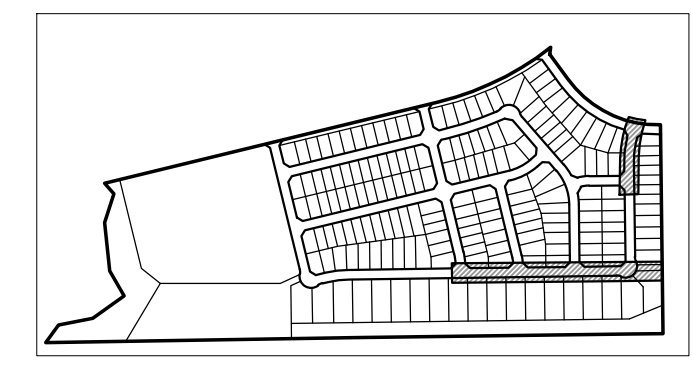


**NOTE:**  
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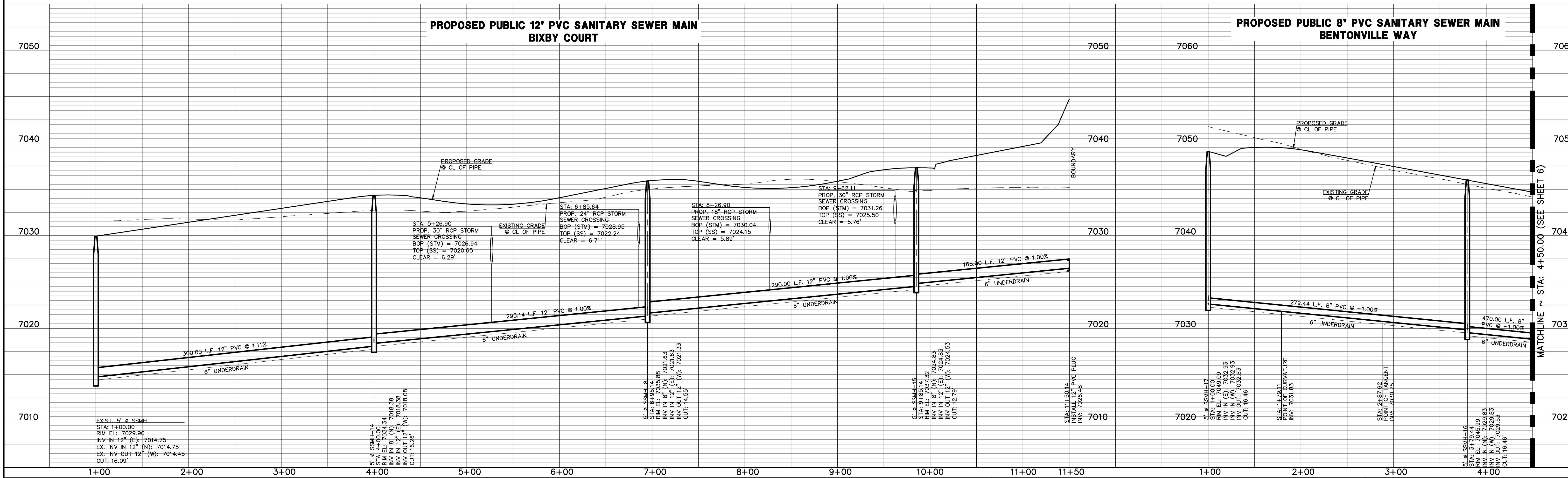
LINE	LENGTH	BEARING
L12	300.00	N89°14'00"E
L13	295.14	N89°14'00"E
L14	290.00	N89°14'00"E
L15	165.00	N89°14'00"E
L16	79.11	S11°40'00"W
L17	91.82	S00°46'00"E
L18	470.00	S00°46'00"E

SANITARY CURVE TABLE	DELTA	LENGTH	RADIUS
C7	12°26'00"	108.50	500.00



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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 MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155      DATE

STERLING RANCH EAST  
FILING NO. 3

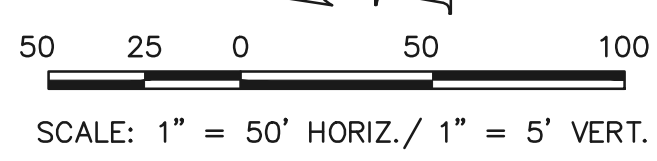
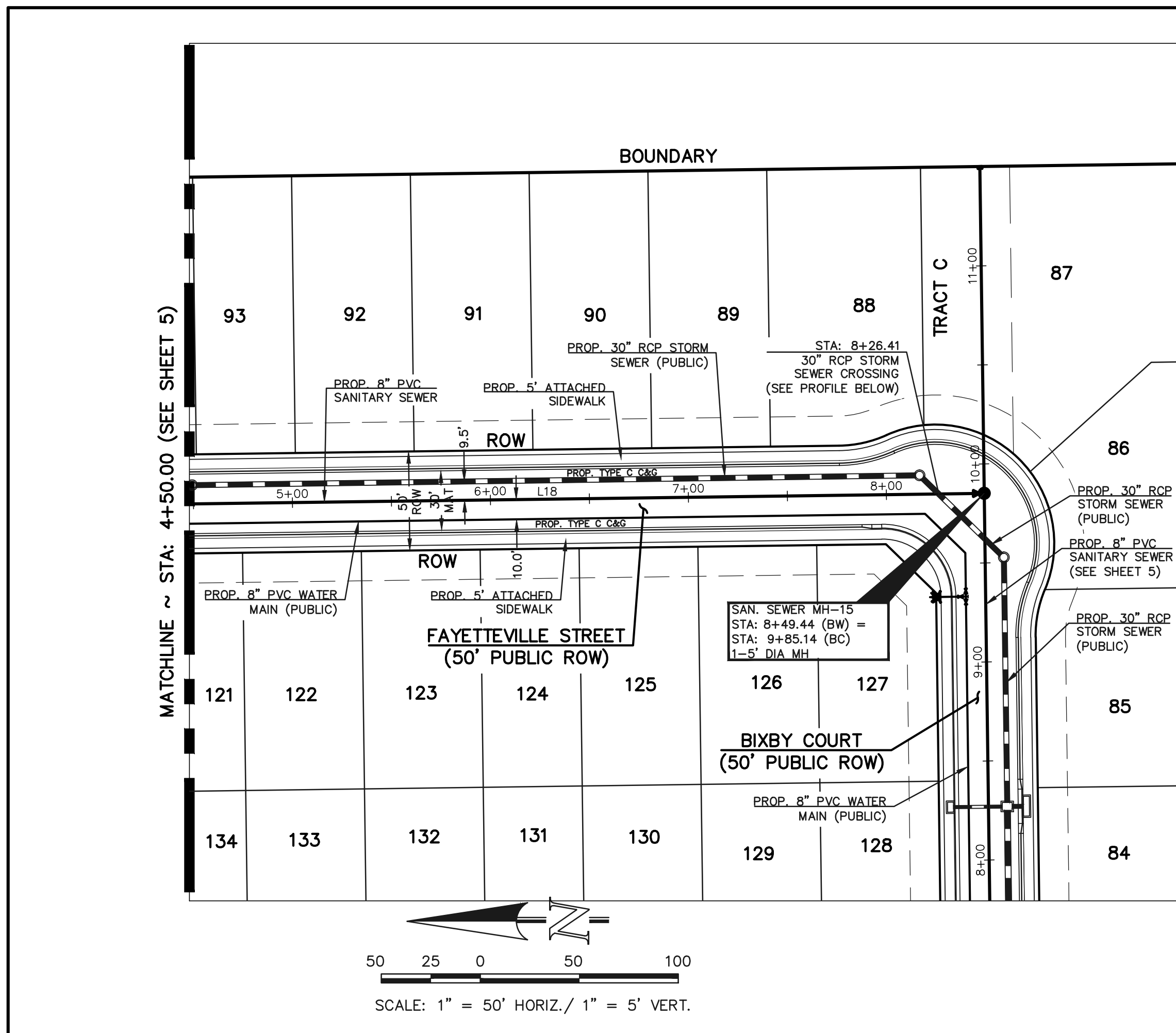
SANITARY SEWER PLAN

DESIGNED BY: ESO      SCALE: DATE: 3/22/2024

DRAWN BY: ESO      (H) 1" = 50'      SHEET 5 OF 16

CHECKED BY: (V) 1" = 5'      JOB NO. 1183.33

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

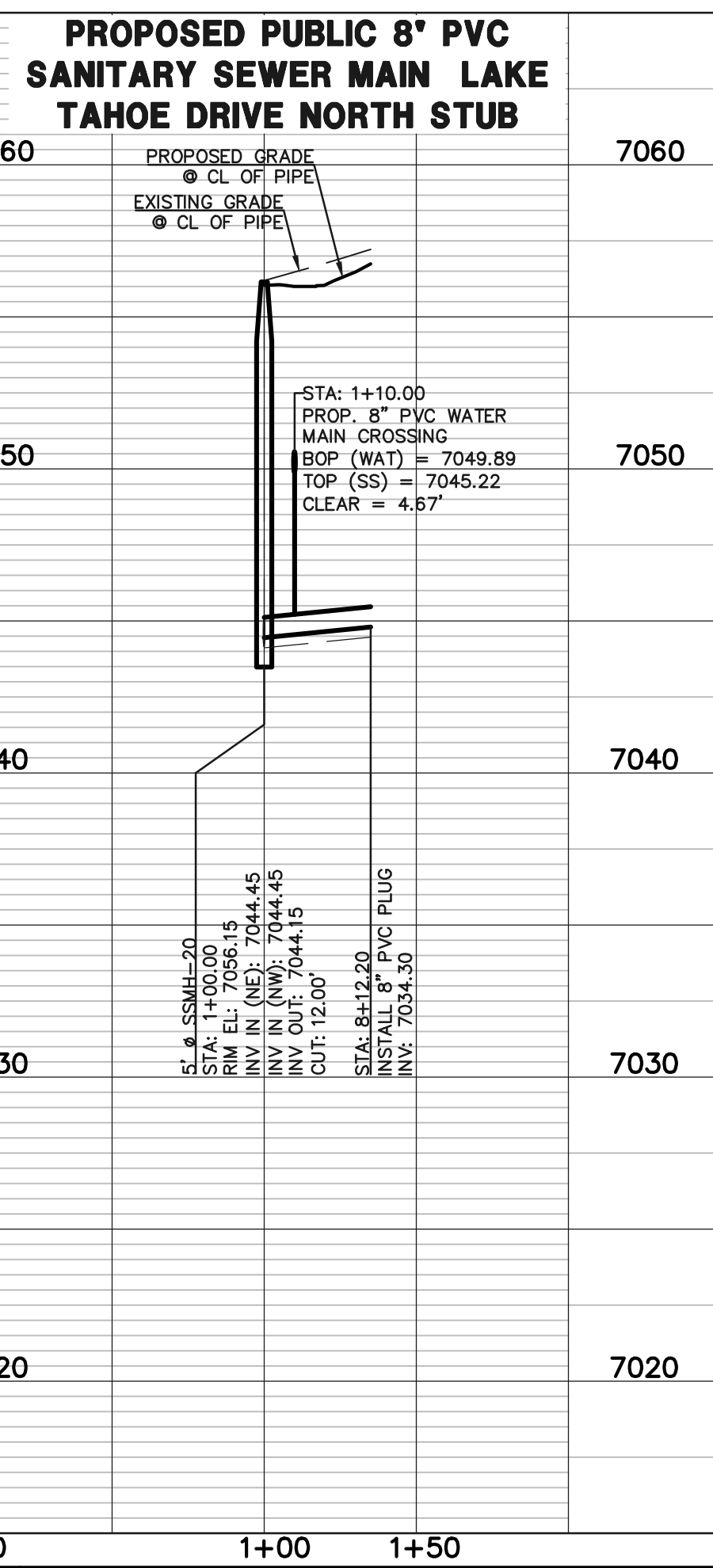
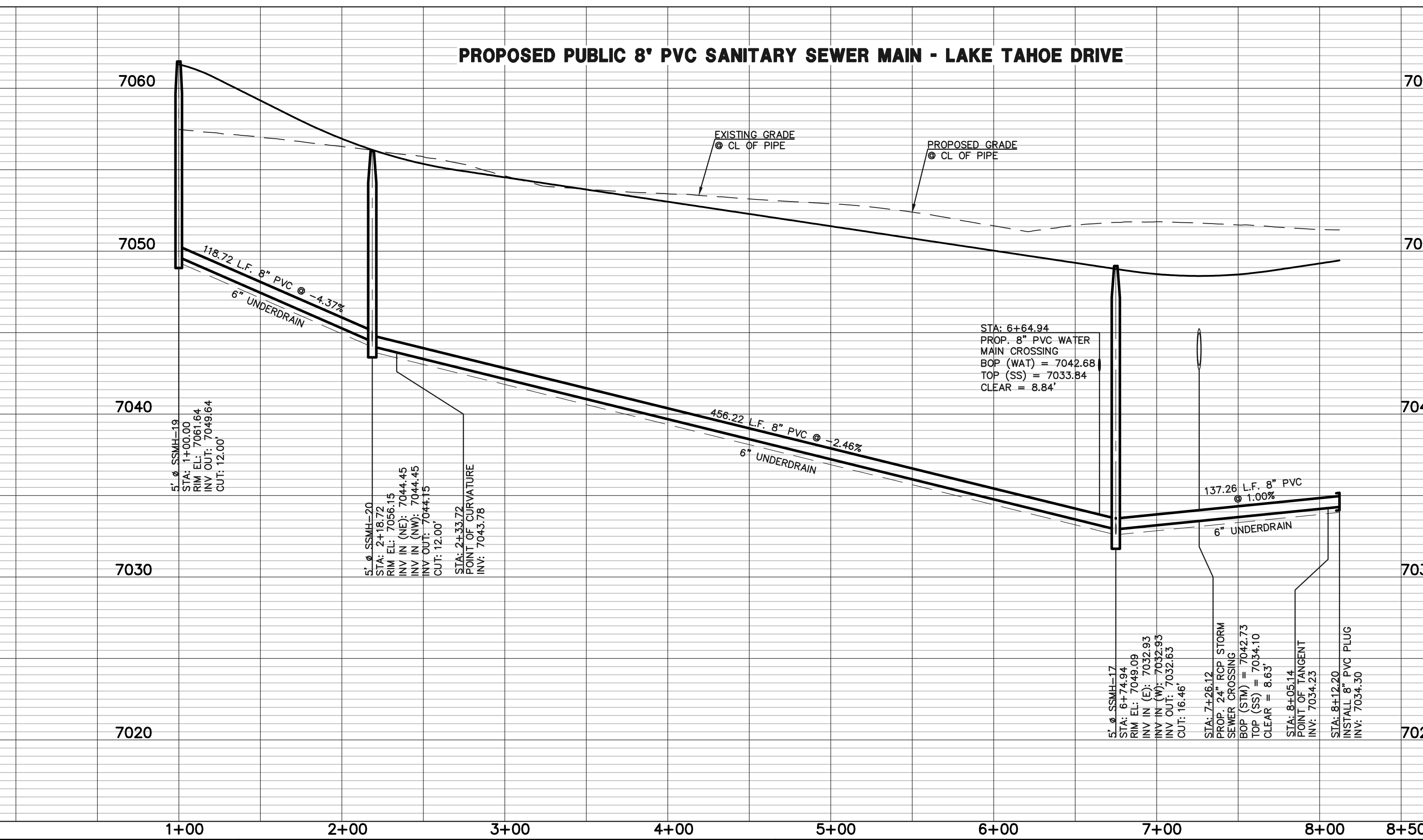
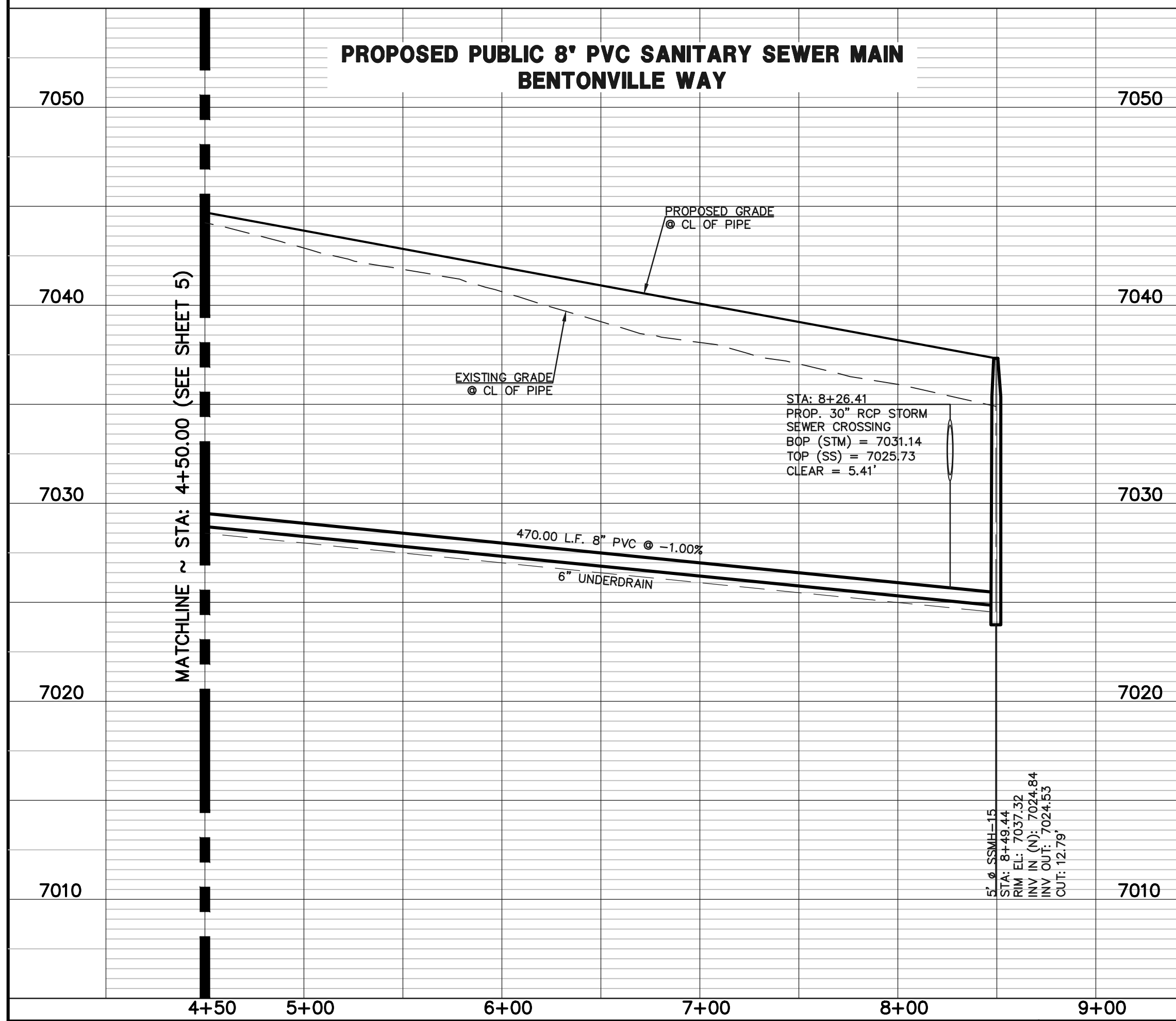
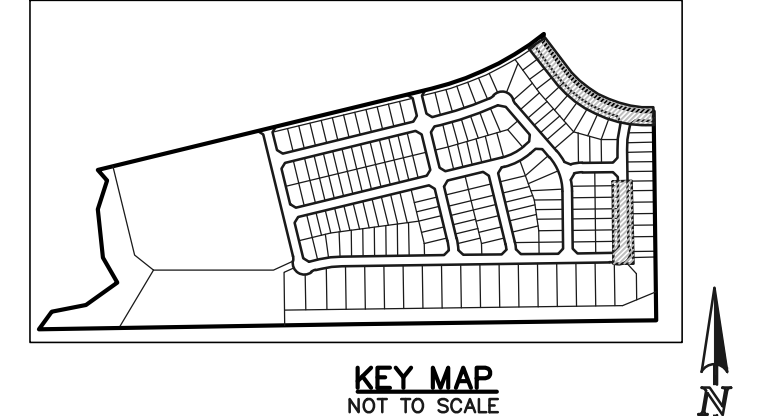
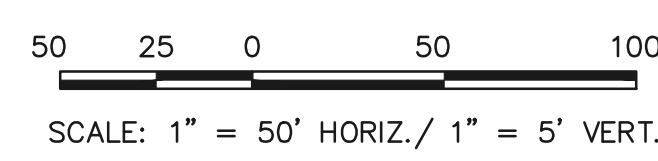
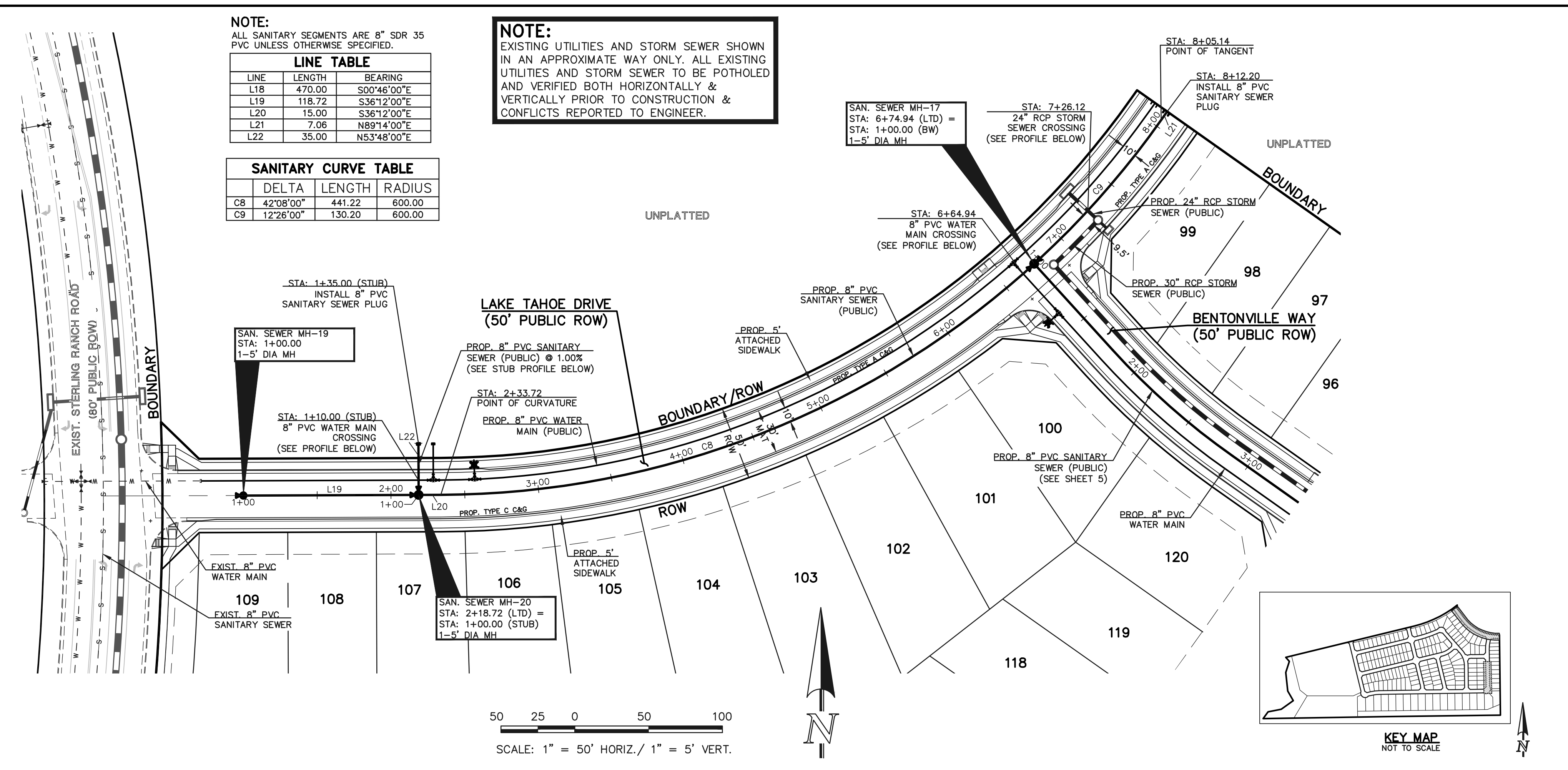


**NOTE:**  
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LINE	LENGTH	BEARING
L18	470.00	S00°46'00"E
L19	118.72	S36°12'00"E
L20	15.00	S36°12'00"E
L21	7.06	N89°14'00"E
L22	35.00	N53°48'00"E

DELTA	LENGTH	RADIUS
C8	42°08'00"	441.22
C9	12°26'00"	130.20

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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 MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

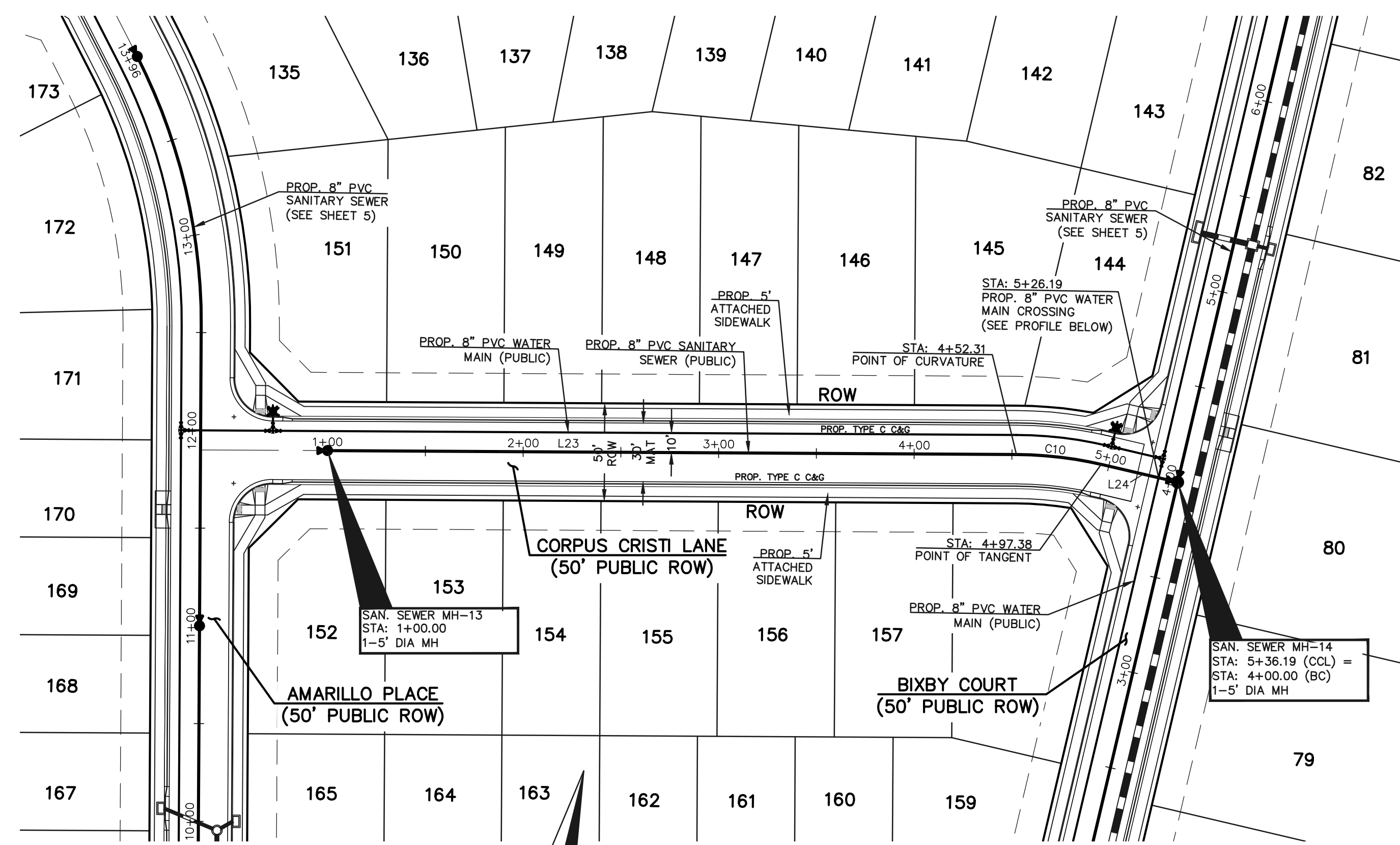
MARC A. WHORTON, COLORADO P.E. #37155      DATE

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

STERLING RANCH EAST  
FILING NO. 3

SANITARY SEWER PLAN

DESIGNED BY	ESO	SCALE	DATE	3/22/2024
DRAWN BY	ESO	(H) 1" = 50'	SHEET	6 OF 16
CHECKED BY	(V) 1" = 5'	JOB NO.	1183.33	

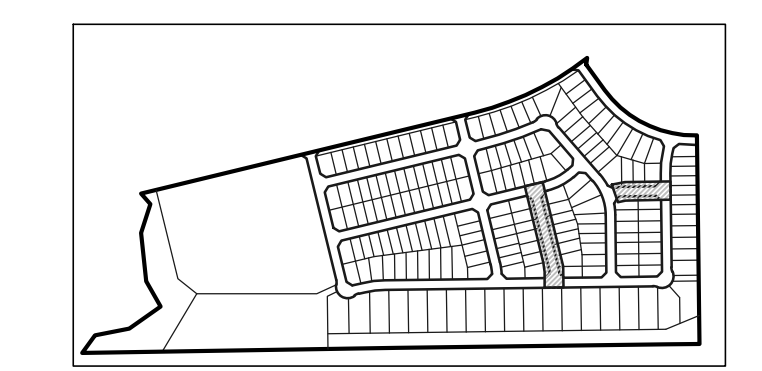
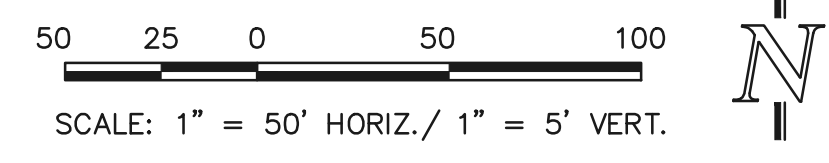
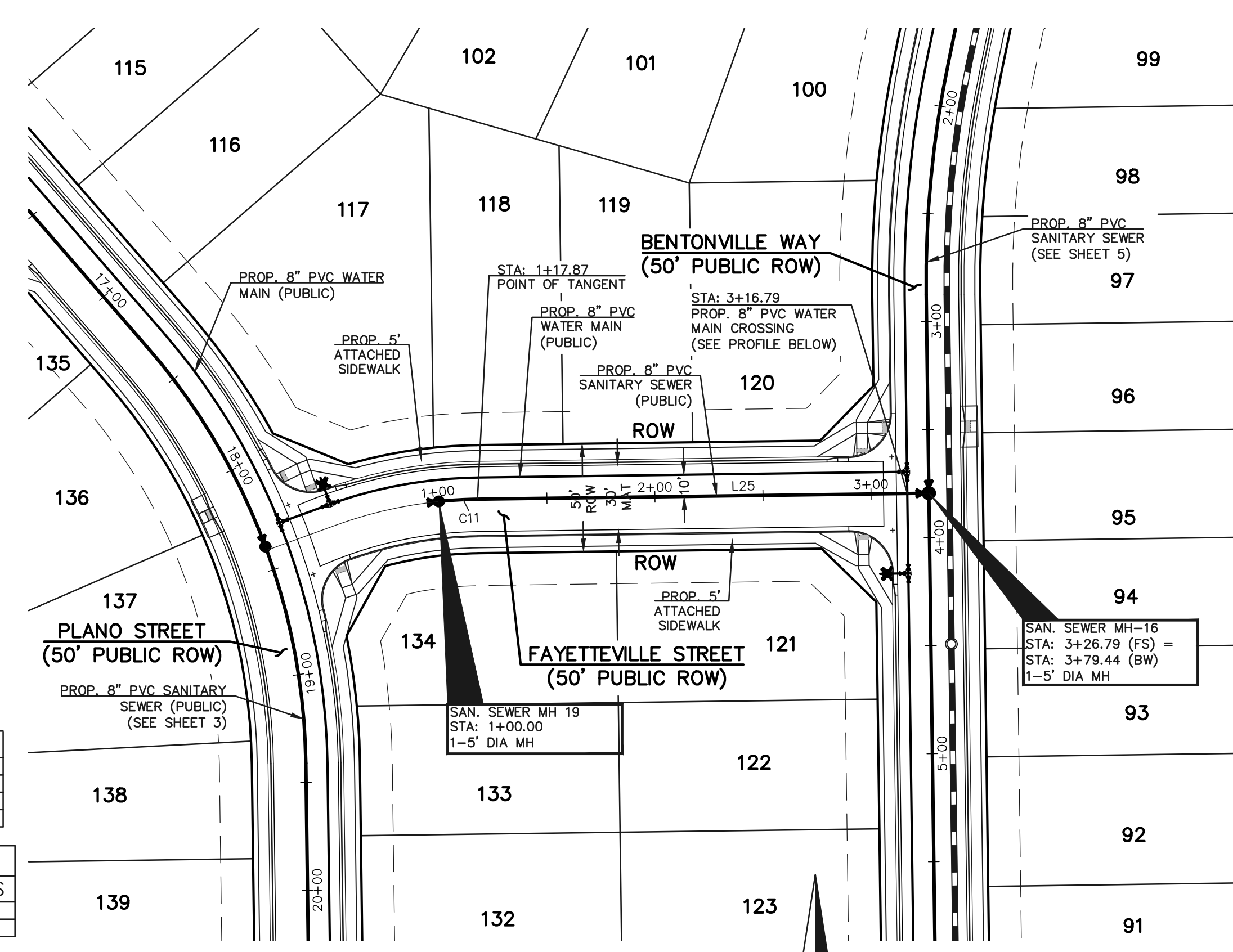
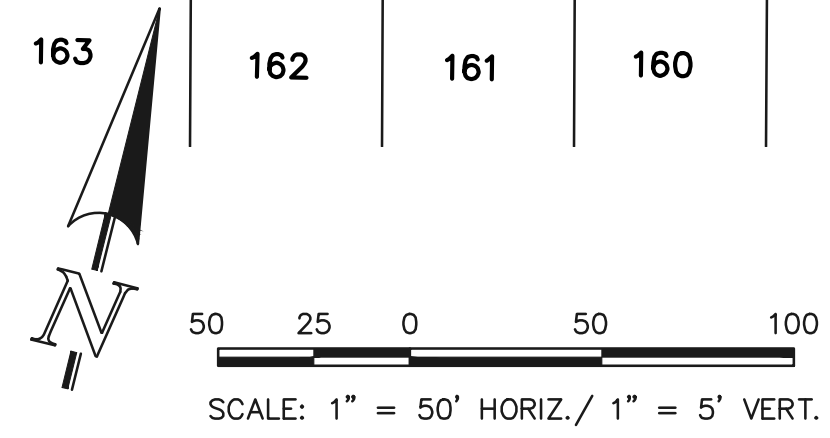


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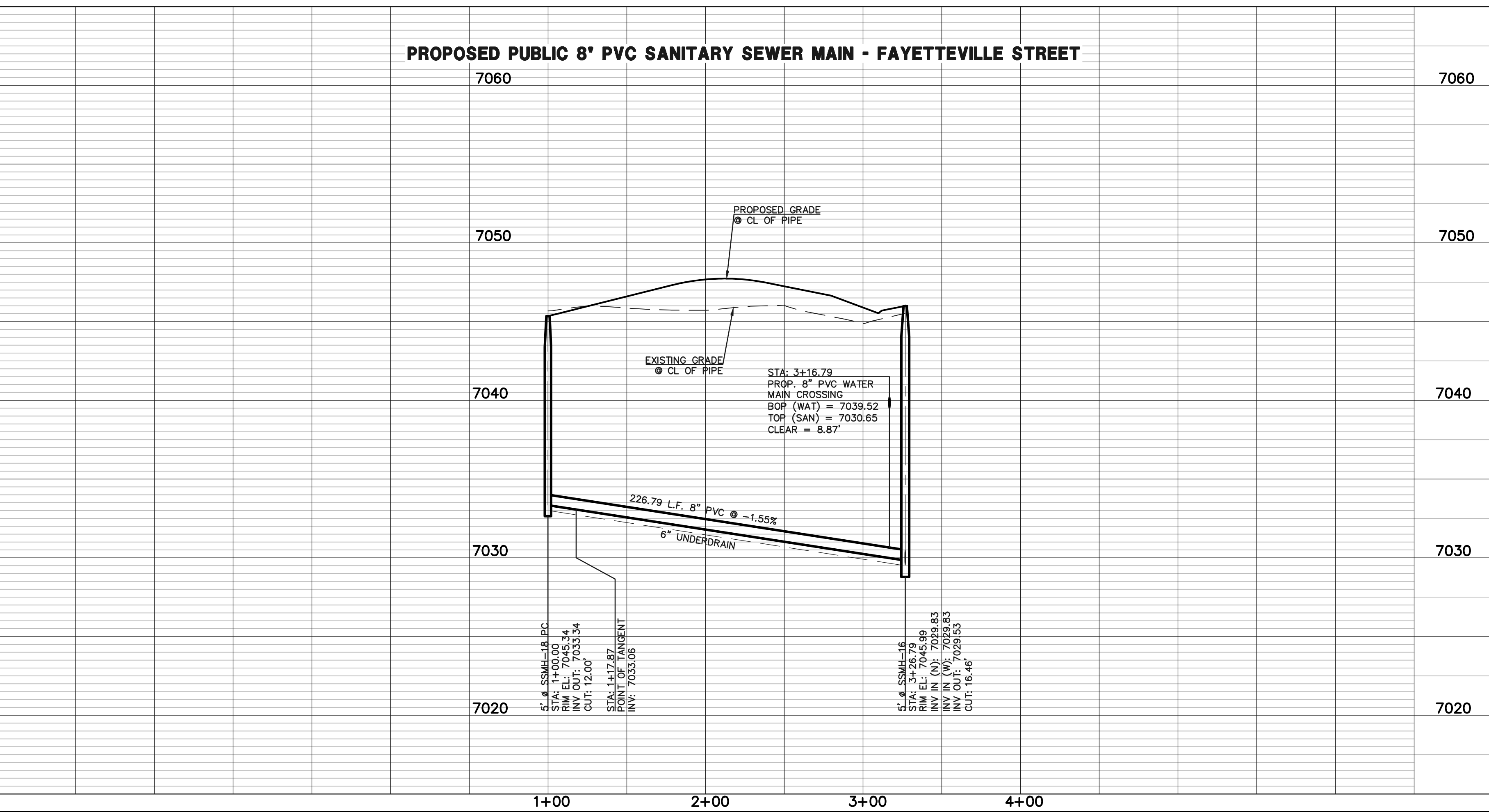
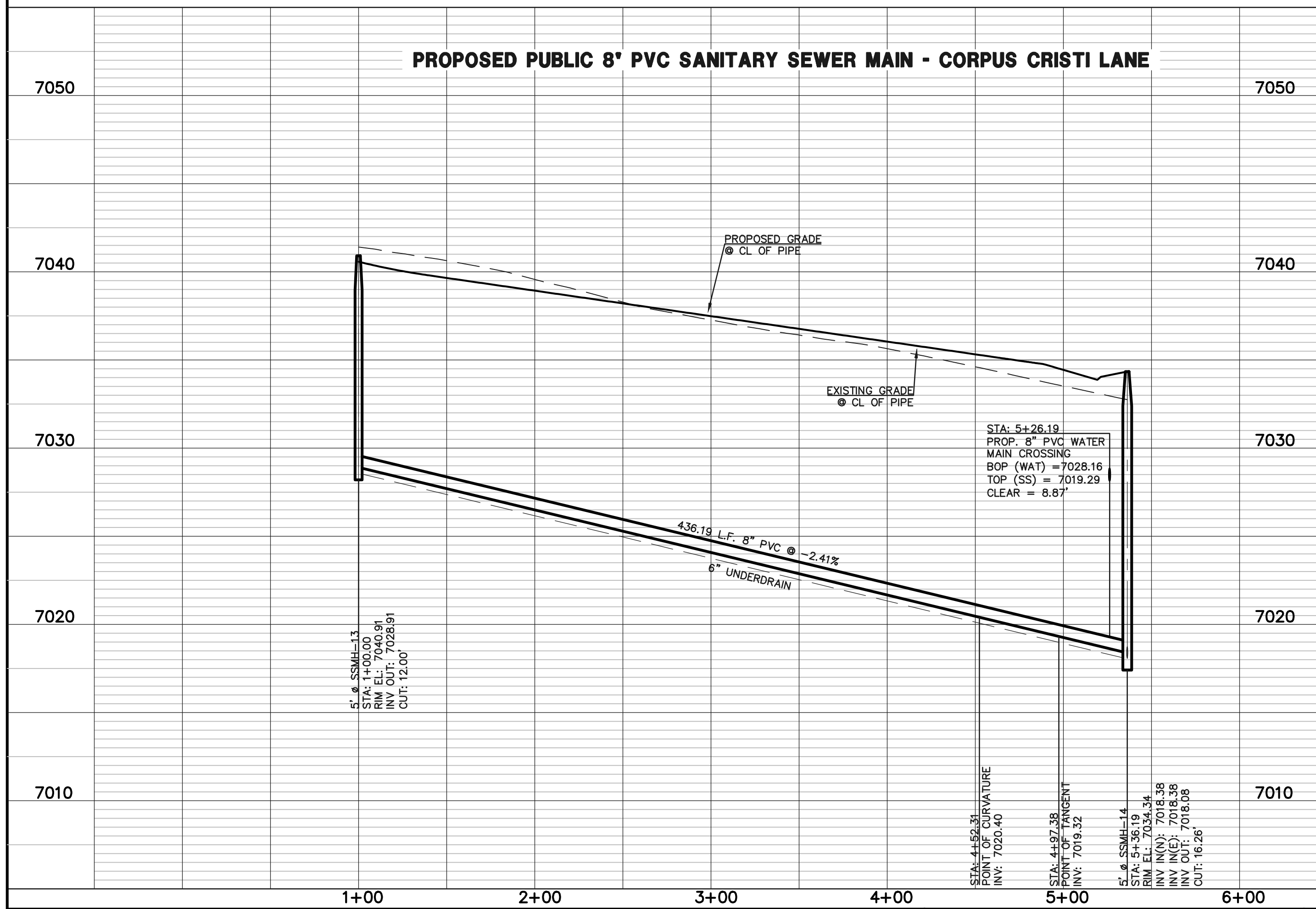
SANITARY LINE TABLE		
LINE	LENGTH	BEARING
L23	352.31	S13°40'40"E
L24	38.81	S00°46'00"E
L25	208.91	N89°14'00"E

SANITARY CURVE TABLE		
DELTA	LENGTH	RADIUS
C10	12°54'40"	45.07 200.00
C11	5°07'13"	17.87 200.00



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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 MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

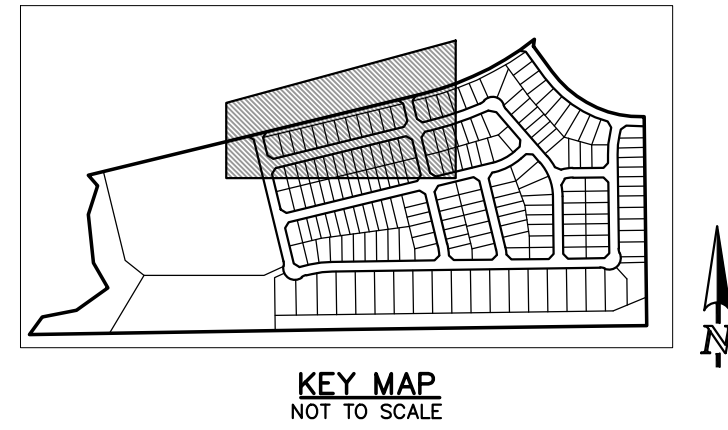
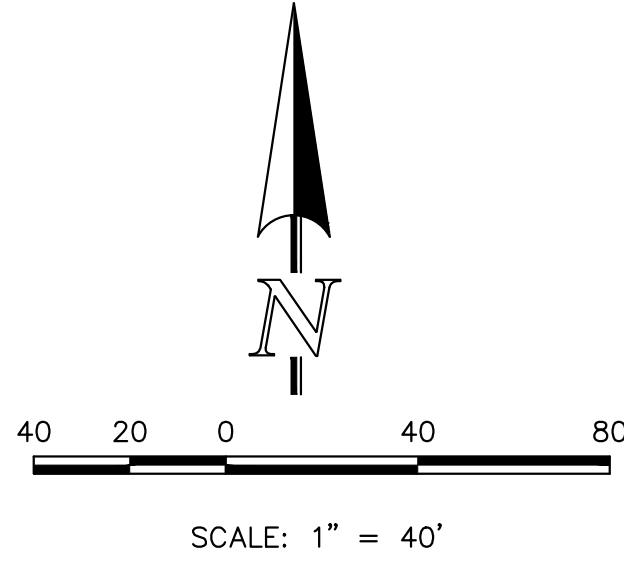
MARC A. WHORTON, COLORADO P.E. #37155      DATE

**CLASSIC**  
CONSULTING  
ENGINEERS & SURVEYORS

STERLING RANCH EAST  
FILING NO. 3

SANITARY SEWER PLAN

DESIGNED BY	ESO	SCALE	DATE	3/22/2024
DRAWN BY	ESO	(H) 1" = 50'	SHEET	7 OF 16
CHECKED BY	(V) 1" = 5'	JOB NO.	1183.33	



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

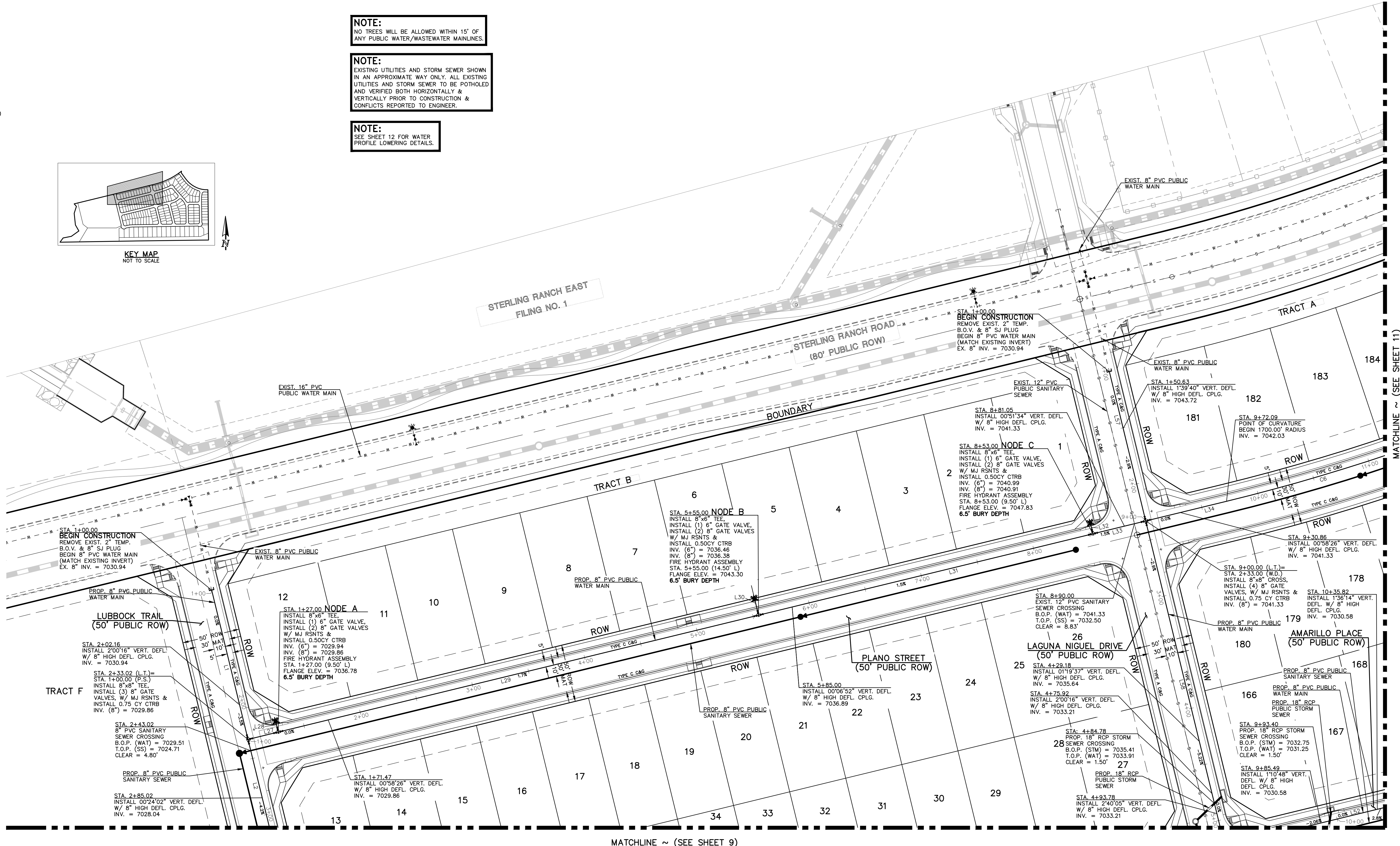
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**NOTE:**  
SEE SHEET 12 FOR WATER PROFILE LOWERING DETAILS.

**NOTE:**  
ALL WATER SEGMENTS ARE PVC

WATER LINE TABLE	
LENGTH	BEARING
L1	133.02 S13°40'40"E
L2	290.00 S13°40'40"E
L27	27.00 N76°19'20"E
L28	9.50 N13°40'40"W
L29	428.00 N76°19'20"E
L30	14.50 N13°40'40"W
L31	298.00 N76°19'20"E
L32	9.50 N13°40'40"W
L33	47.00 N76°19'20"E
L34	72.09 N76°19'20"E
L52	290.00 N76°19'20"E
L57	133.02 S13°40'40"E
L58	290.00 S13°40'40"E

WATER CURVE TABLE		
DELTA	LENGTH	RADIUS
C6	07°00'55"	208.14 1700.00



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

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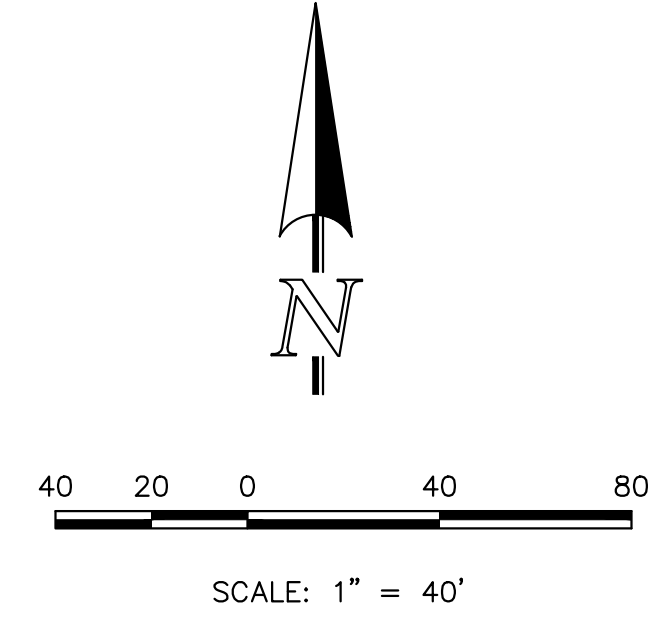
MARC A. WHORTON, COLORADO P.E. #37155 DATE

STERLING RANCH EAST FILING NO. 3			
PUBLIC WATER SYSTEM PLAN			
DESIGNED BY	ESO	SCALE	DATE 3/22/2024
DRAWN BY	ESO	(H) 1" = 40'	SHEET 8 OF 16
CHECKED BY	(V) 1" = N/A	JOB NO.	1183.33

N:\11833\DRAWINGS\CONSTRUCTION\UTILITIES\11833-3-WAT-08.dwg, 9/25/2024, 5:10:13 PM, 1:1



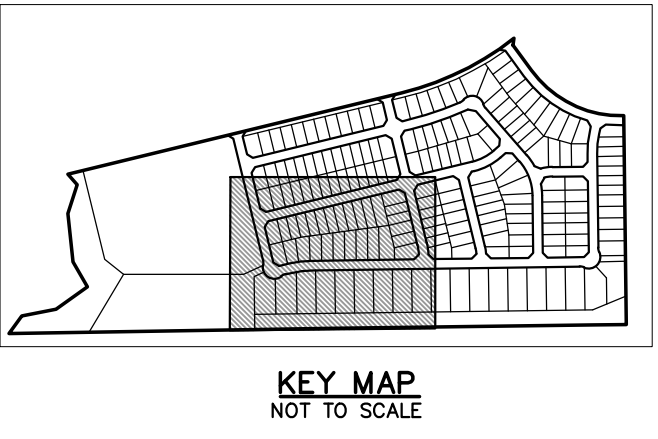
MATCHLINE ~ (SEE SHEET 8)



NOTE: ALL WATER SEGMENTS ARE PVC

WATER LINE TABLE		
LENGTH	BEARING	
L2	290.00	S13°40'40"E
L3	265.86	S13°40'40"E
L4	34.14	S68°40'40"E
L5	70.20	N76°19'20"E
L6	170.61	N89°14'00"E
L7	14.50	N00°46'00"W
L8	421.92	N89°14'00"E
L9	300.00	N89°14'00"E
L45	27.00	N76°19'20"E
L46	9.50	N13°40'40"W
L47	418.00	N76°19'20"E
L48	14.50	N13°40'40"W
L49	308.00	N76°19'20"E
L50	9.50	N13°40'40"W
L51	47.00	N76°19'20"E
L52	290.00	N76°19'20"E
L58	290.00	S13°40'40"E
L59	338.43	S13°40'40"E
L60	1.31	S00°46'00"E
L61	9.50	N89°14'00"E
L62	27.00	S00°46'00"E

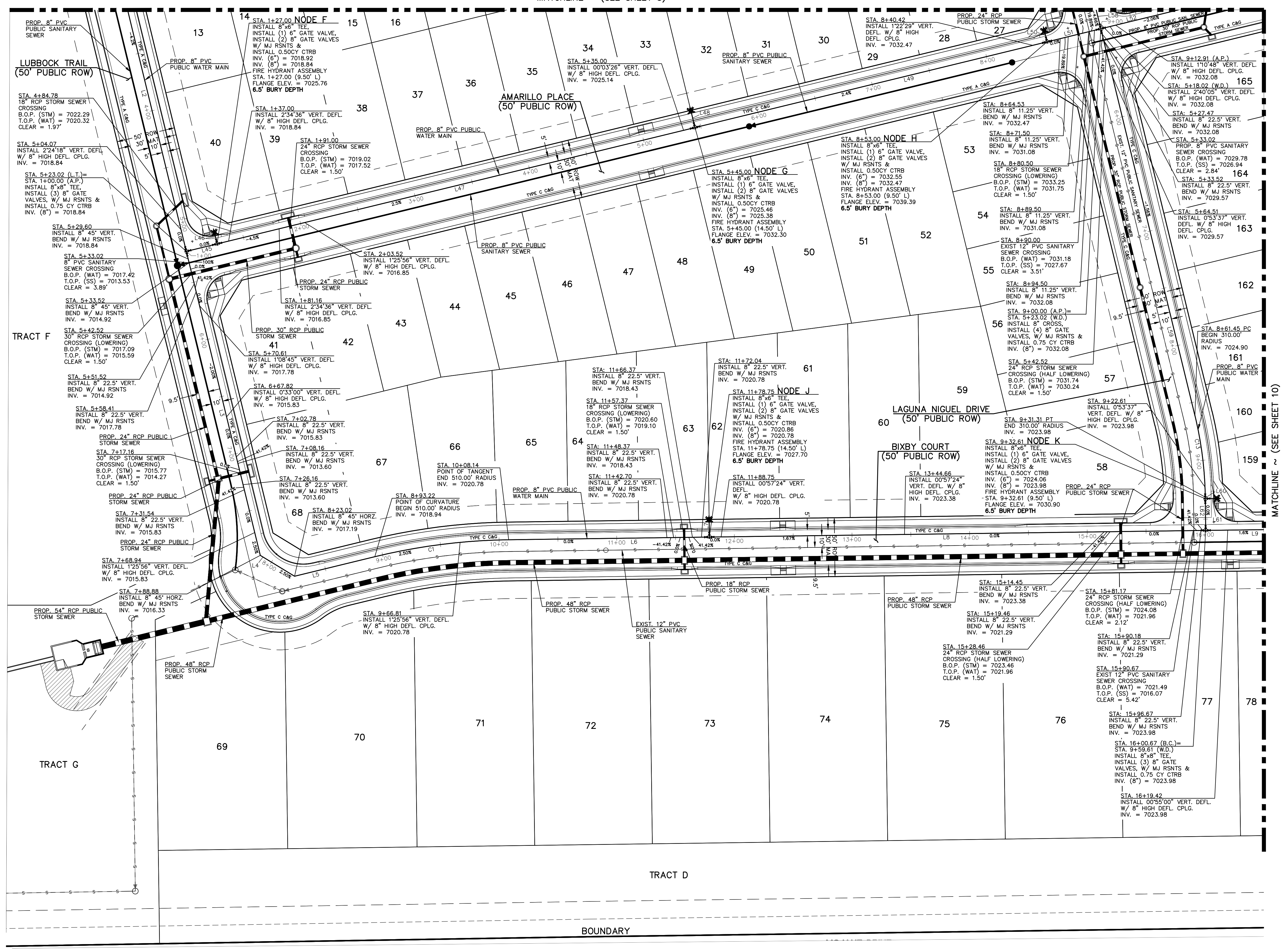
WATER CURVE TABLE		
DELTA	LENGTH	RADIUS
C1	12°54'40"	114.92
C13	12°54'40"	69.86



**NOTE:**  
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**NOTE:**  
SEE SHEET 12 FOR WATER PROFILE LOWERING DETAILS.



**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
	EXISTING GAS MAIN		EXISTING ELECTRIC

48 HOURS BEFORE YOU DIG,  
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NO.	REVISION	DATE

REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155

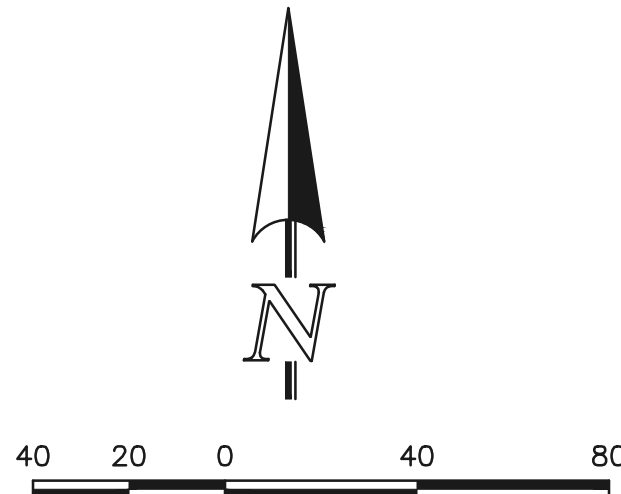
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(Fax)

STERLING RANCH EAST  
FILING NO. 3

PUBLIC WATER SYSTEM PLAN

DESIGNED BY	ESO	SCALE	DATE	3/22/2024
DRAWN BY	ESO	(H) 1" = 40'	SHEET	9 OF 16
CHECKED BY	(V) 1" = N/A	JOB NO.	1183.33	

N:\118333\DRAWINGS\CONSTRUCTION\UTILITIES\118333-WAT-03.dwg, 9/25/2024, 5:08:51 PM, 1:1

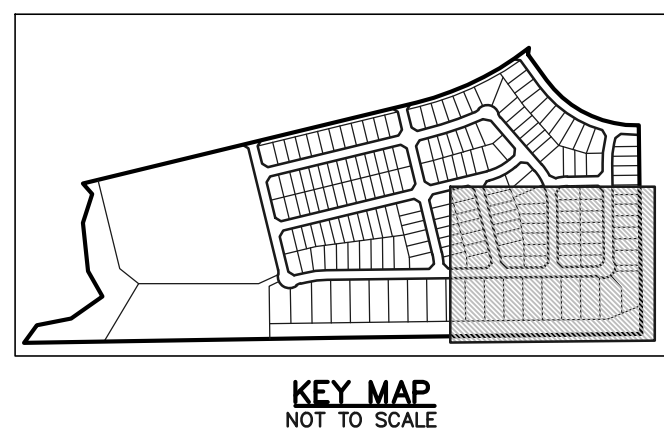


SCALE: 1" = 40'

NOTE: ALL WATER SEGMENTS ARE PVC

WATER LINE TABLE		
LENGTH	BEARING	
L9	300.00	N89°14'00"E
L10	295.14	N89°14'00"E
L11	228.00	N89°14'00"E
L12	14.50	S00°46'00"E
L13	22.00	N89°14'00"E
L14	28.28	N44°14'00"E
L15	403.00	N00°46'00"W
L16	9.50	N89°14'00"E
L17	47.00	N00°46'00"W
L39	311.87	S00°46'00"E
L40	9.50	N89°14'00"E
L41	27.00	S00°46'00"E
L65	380.31	S13°40'40"E
L66	1.81	S00°46'00"E
L67	9.50	N89°14'00"E
L68	27.00	S00°46'00"E

WATER CURVE TABLE		
DELTA	LENGTH	RADIUS
C9	21°04'55"	114.06
C14	12°54'40"	47.32



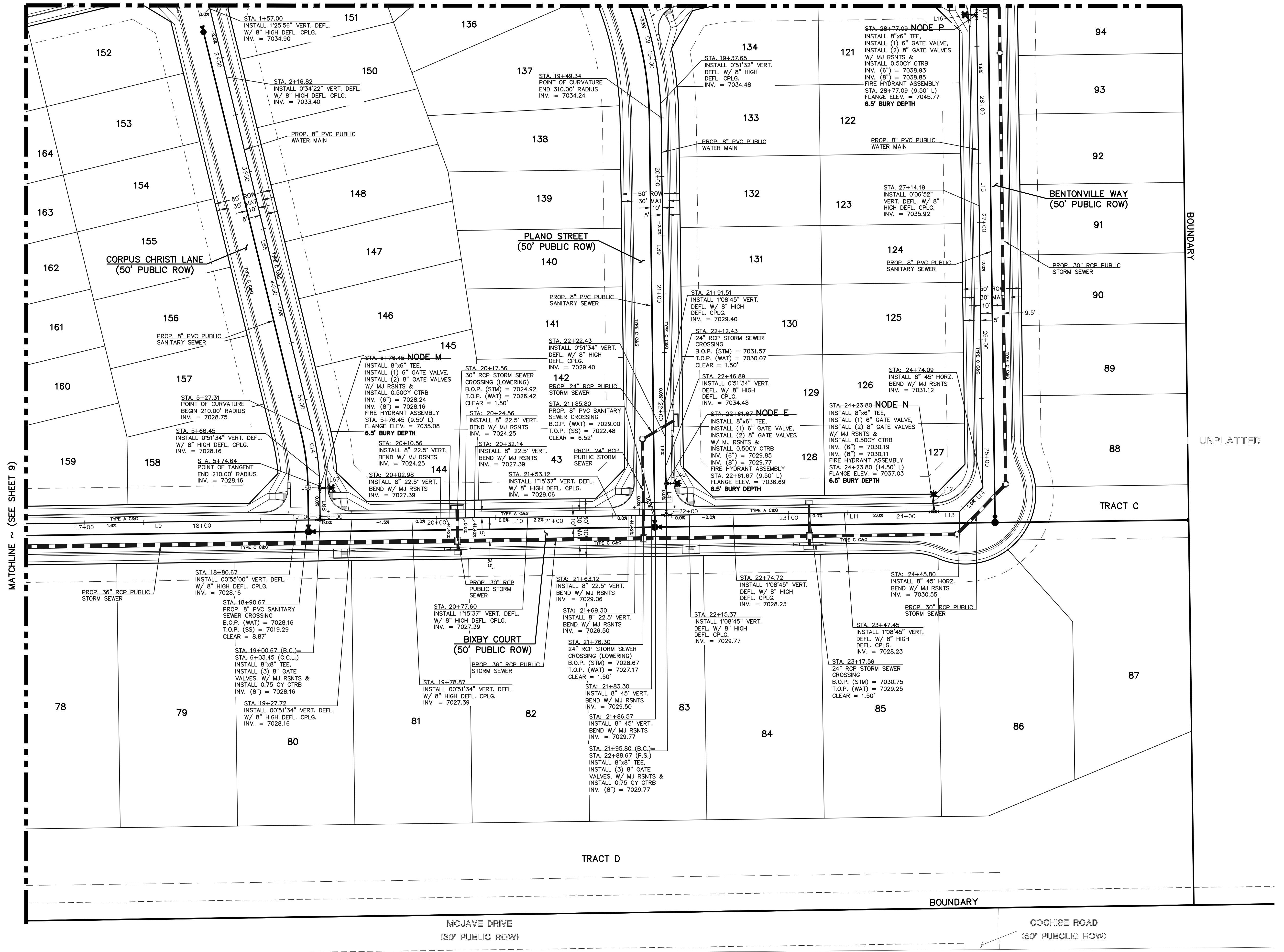
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- WHEN WATER MAIN CROSSES UNDER A WASTEWATER MAIN OR STORM SEWER MAIN SECONDARY CONTAINMENT MUST BE PROVIDED:
1. WATER MAIN OR ABOVE UTILITY SHALL BE CONSTRUCTED WITHOUT MECHANICAL JOINTS FOR 9 FEET ON EITHER SIDE OF THE CROSSING. PER FALCON AREA WATER AND WASTEWATER AUTHORITY SPECIFICATIONS.
  2. THE WATER MAIN OR ABOVE UTILITY SHALL BE ENCASED IN FLOW FILL PER FALCON AREA WATER AND WASTEWATER AUTHORITY SPECIFICATIONS FOR 10 FEET ON EITHER SIDE OF CROSSING.

**NOTE:**  
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**NOTE:**  
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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 MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155      DATE

**CLASSIC**  
CONSULTING ENGINEERS & SURVEYORS

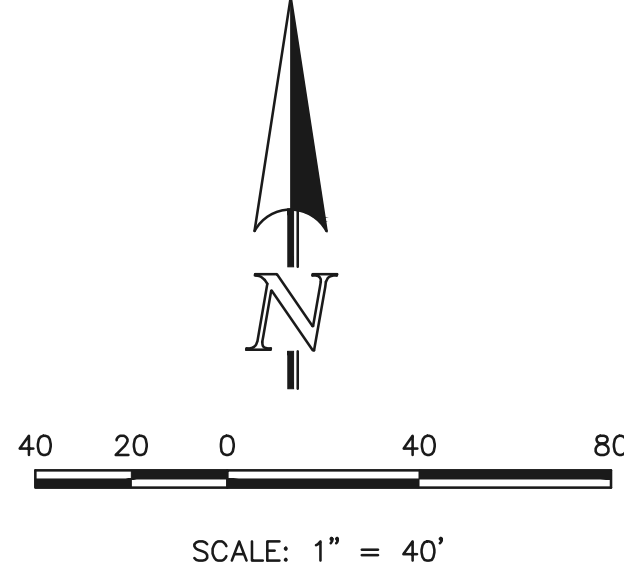
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
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STERLING RANCH EAST  
FILING NO. 3

PUBLIC WATER SYSTEM PLAN

DESIGNED BY	ESO	SCALE	DATE	3/22/2024
DRAWN BY	ESO	(H) 1" = 50'	SHEET	10 OF 16
CHECKED BY	(V) 1" = 5'	JOB NO.	1183.33	





NOTE:  
ALL WATER SEGMENTS ARE PVC

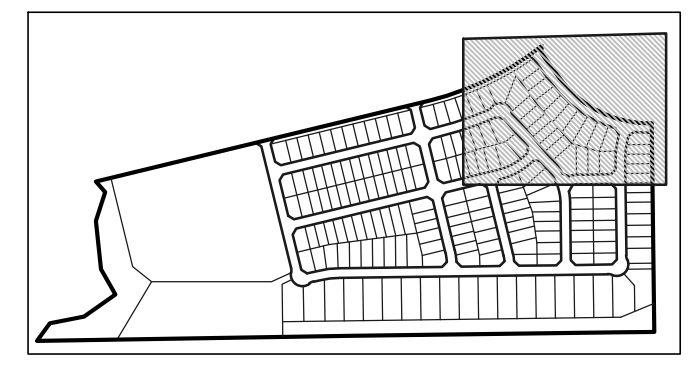
WATER LINE TABLE		
LENGTH	BEARING	
L17	47.00	N00°46'00"W
L18	81.92	N00°46'00"W
L19	43.19	N11°40'00"E
L20	9.50	N78°20'00"W
L21	46.01	N11°40'00"E
L22	157.10	S36°12'00"E
L23	25.00	N53°48'00"E
L24	5.00	S36°12'00"E
L25	9.50	N51°33'38"E
L26	7.06	N89°14'00"E
L27	14.50	S20°41'35"E
L28	6.83	S67°00'00"E
L29	278.32	S41°00'00"E
L30	115.77	S41°00'00"E
L31	311.87	S00°46'00"E
L32	9.50	N89°14'00"E
L33	27.00	S00°46'00"E
L34	24.00	N70°00'00"E
L35	9.50	N19°43'39"W
L36	198.91	N89°14'00"E
L37	290.00	N76°19'20"E
L38	53.30	N76°19'20"E
L39	49.06	N49°00'00"E
L40	9.50	N41°00'00"W
L41	47.00	N49°00'00"E
L42	47.00	S13°40'40"E
L43	9.50	N76°19'20"E
L44	380.31	S13°40'40"E

WATER CURVE TABLE			
DELTA	LENGTH	RADIUS	
C2	12°26'00"	110.67	510.00
C3	2°14'22"	23.06	590.00
C4	38°55'22"	400.80	590.00
C5	13°24'16"	138.03	590.00
C6	7°00'55"	208.14	1700.00
C7	5°05'17"	150.97	1700.00
C8	19°09'05"	103.62	310.00
C9	2°10'55"	114.06	310.00
C10	0°16'21"	1.00	210.00
C11	18°57'39"	210.00	69.50
C12	27°19'20"	290.00	138.29

NOTE:  
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NOTE:  
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KEY MAP  
NOT TO SCALE

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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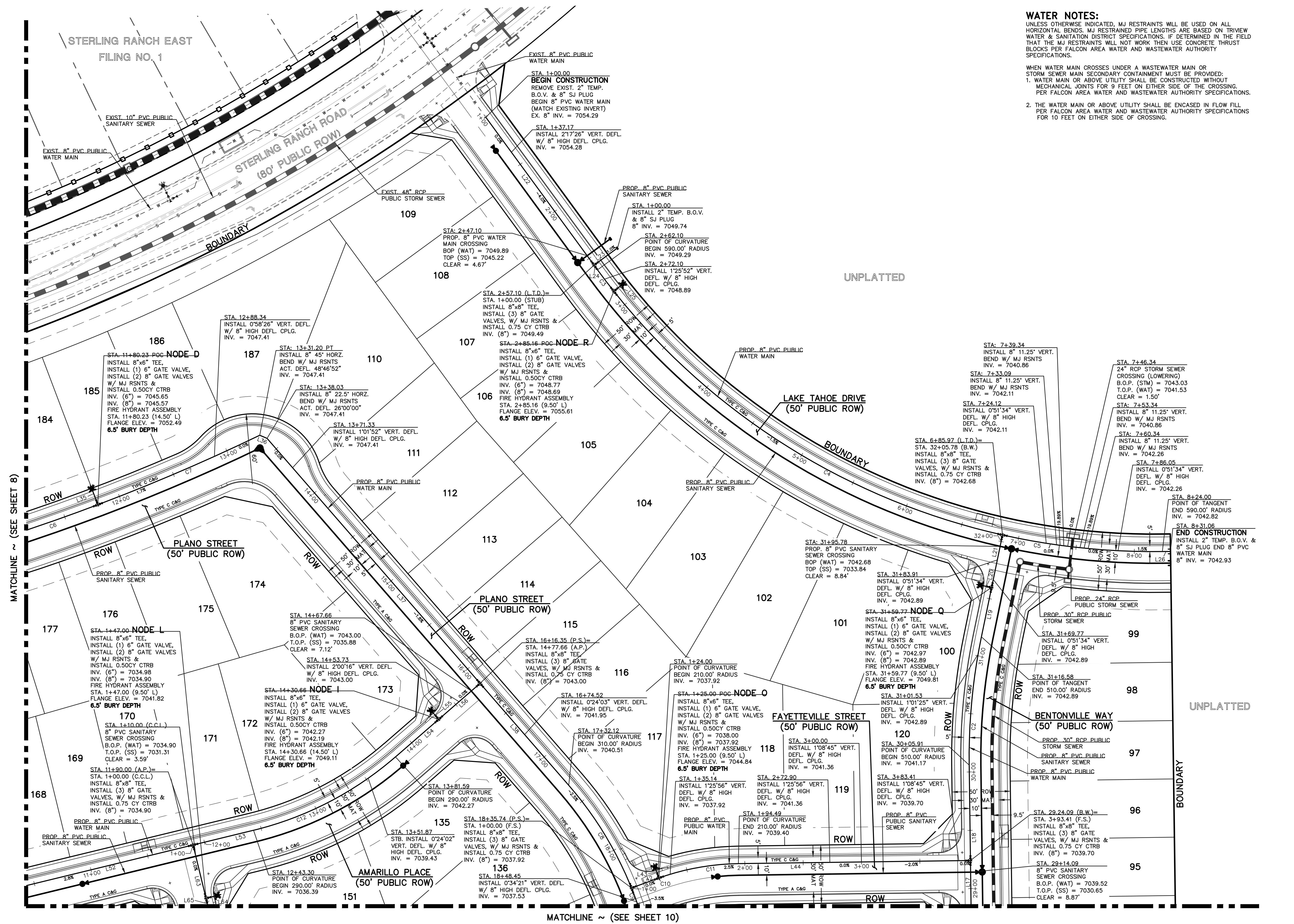
NO. REVISION	DATE	REVIEW:

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

MARC A. WHORTON, COLORADO P.E. #37155 DATE

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(719)785-0790  
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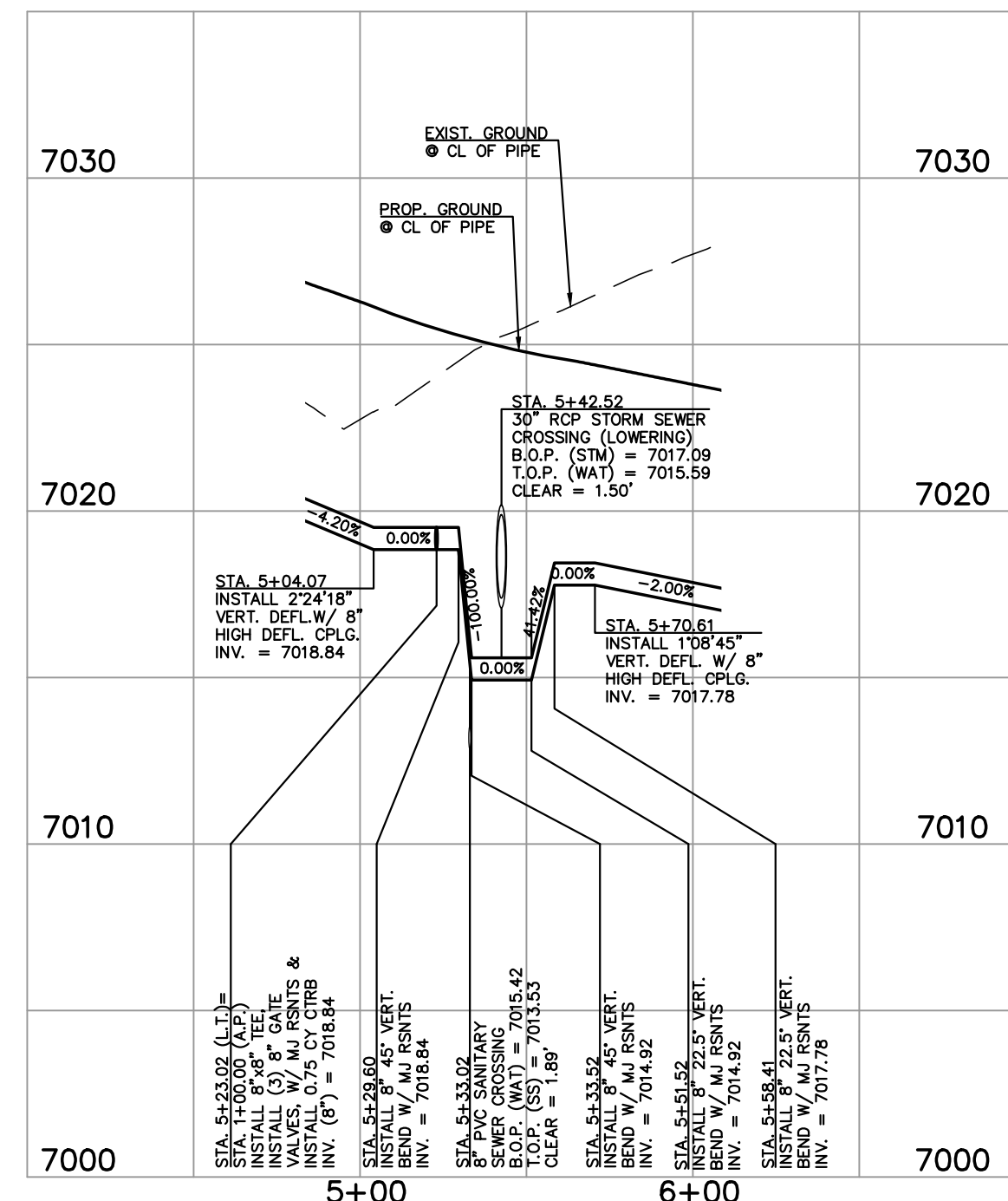
STERLING RANCH EAST FILING NO. 3			
PUBLIC WATER SYSTEM PLAN			
DESIGNED BY	ESO	SCALE	DATE 3/22/2024
DRAWN BY	ESO	(H) 1" = 40'	SHEET 11 OF 16
CHECKED BY	(V) 1" = N/A	JOB NO.	1183.33



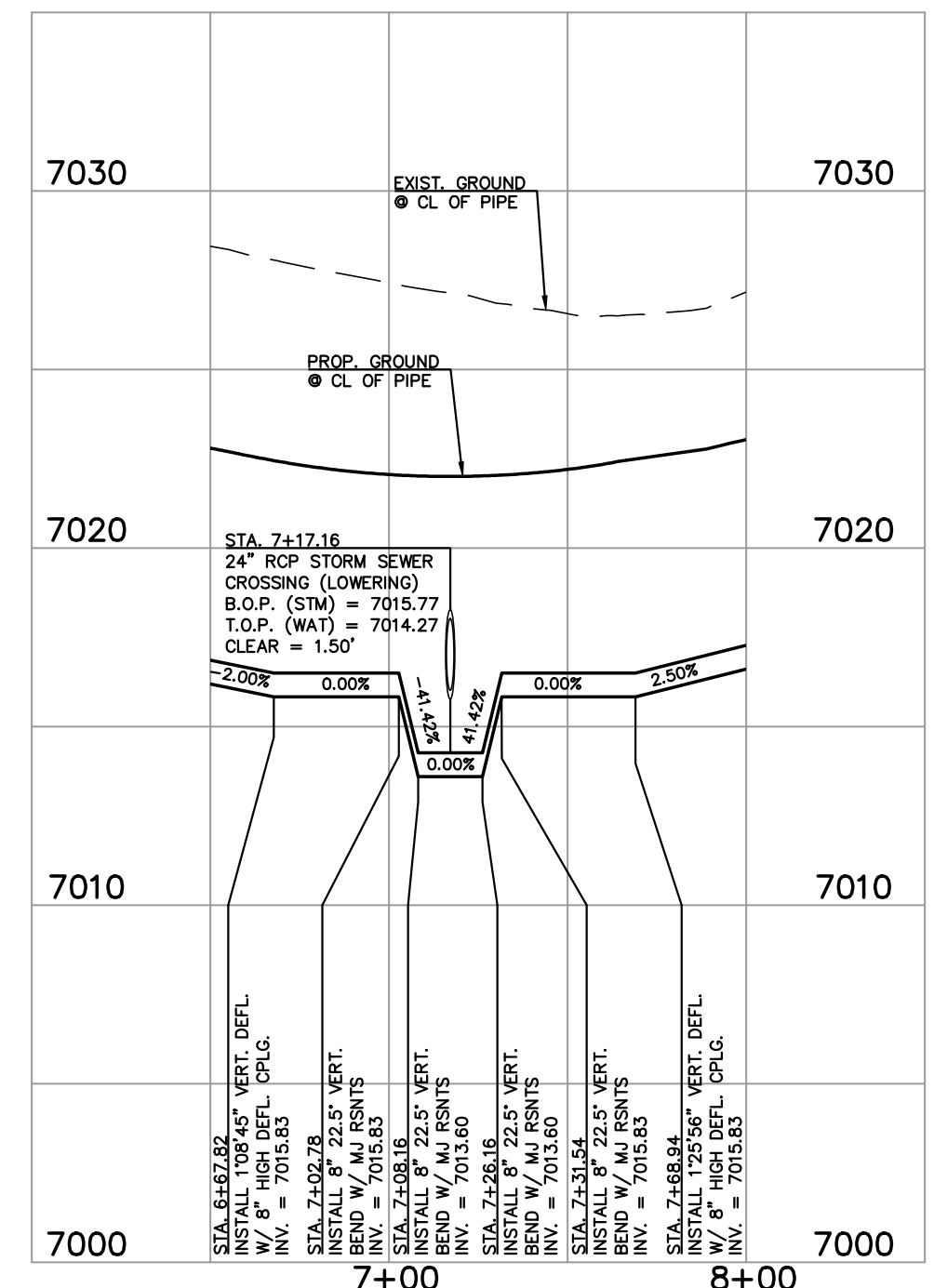
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WHEN WATER MAIN CROSSES UNDER A WASTEWATER MAIN OR STORM SEWER MAIN SECONDARY CONTAINMENT MUST BE PROVIDED:

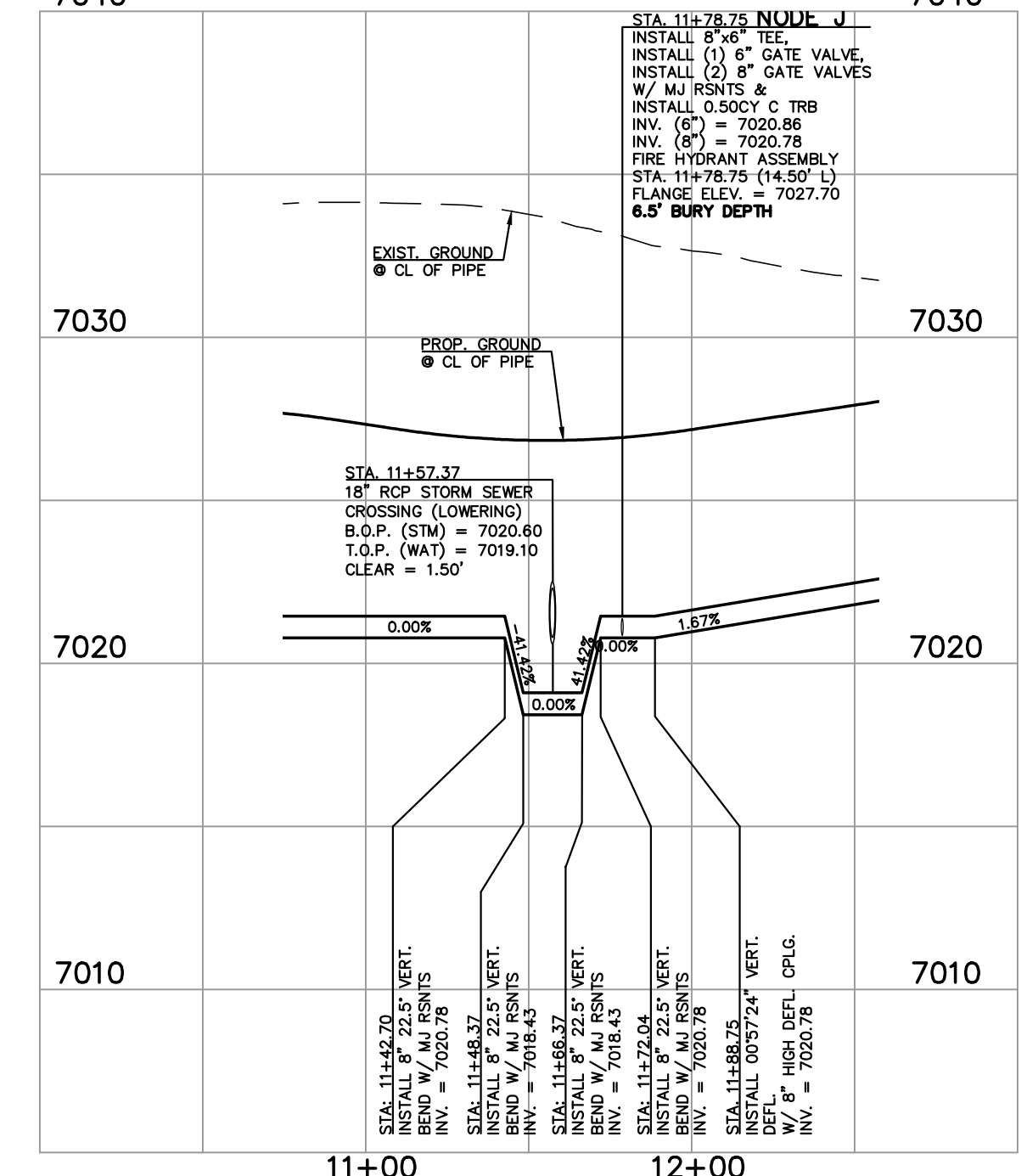
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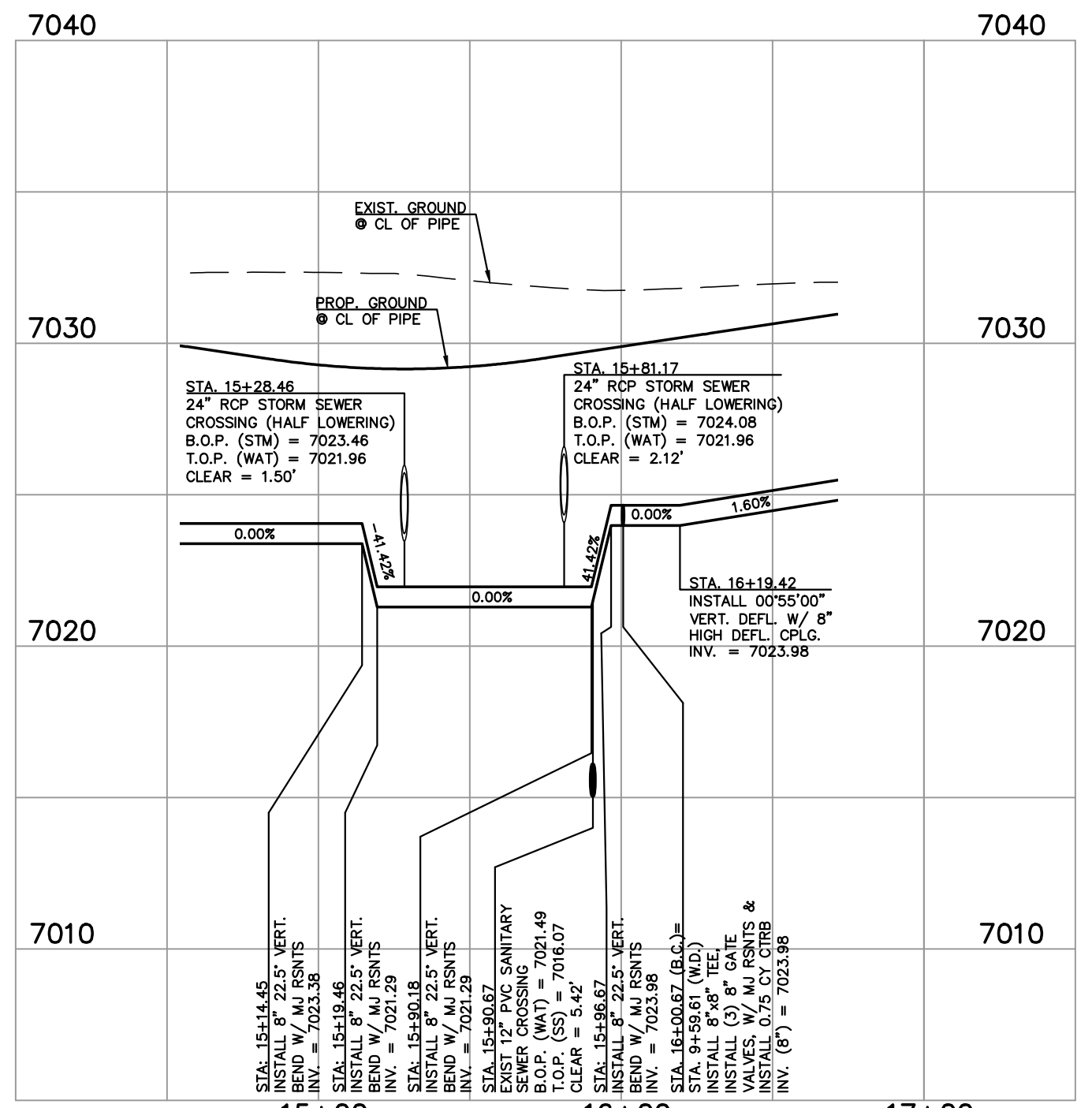
**WATER LOOP 1  
WATER LOWERING  
STA: 5+42.52**  
SCALE 1" = 50' HORIZ.  
1" = 5' VERT.



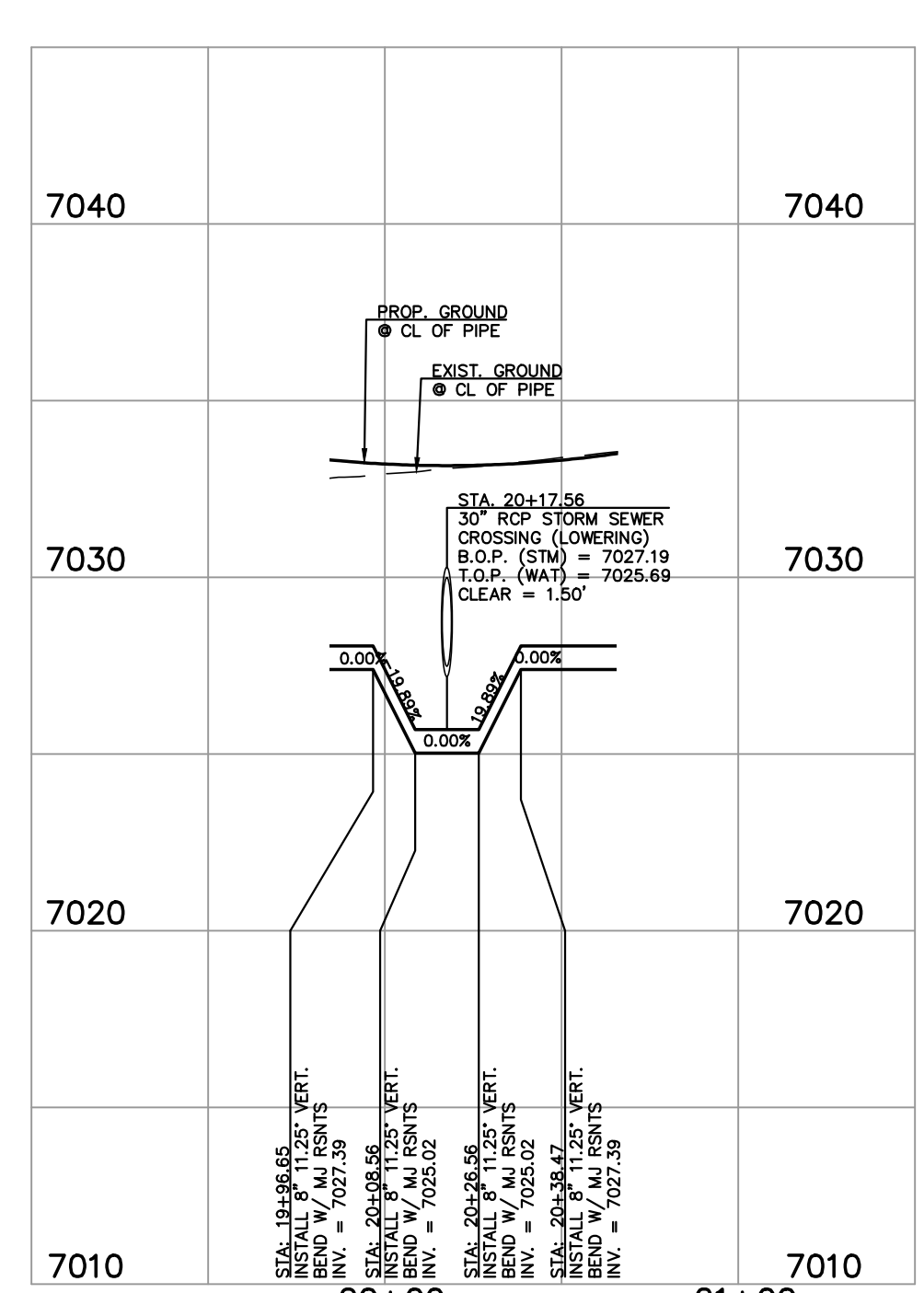
**WATER LOOP 1  
WATER LOWERING  
STA: 7+17.16**  
SCALE 1" = 50' HORIZ.  
1" = 5' VERT.



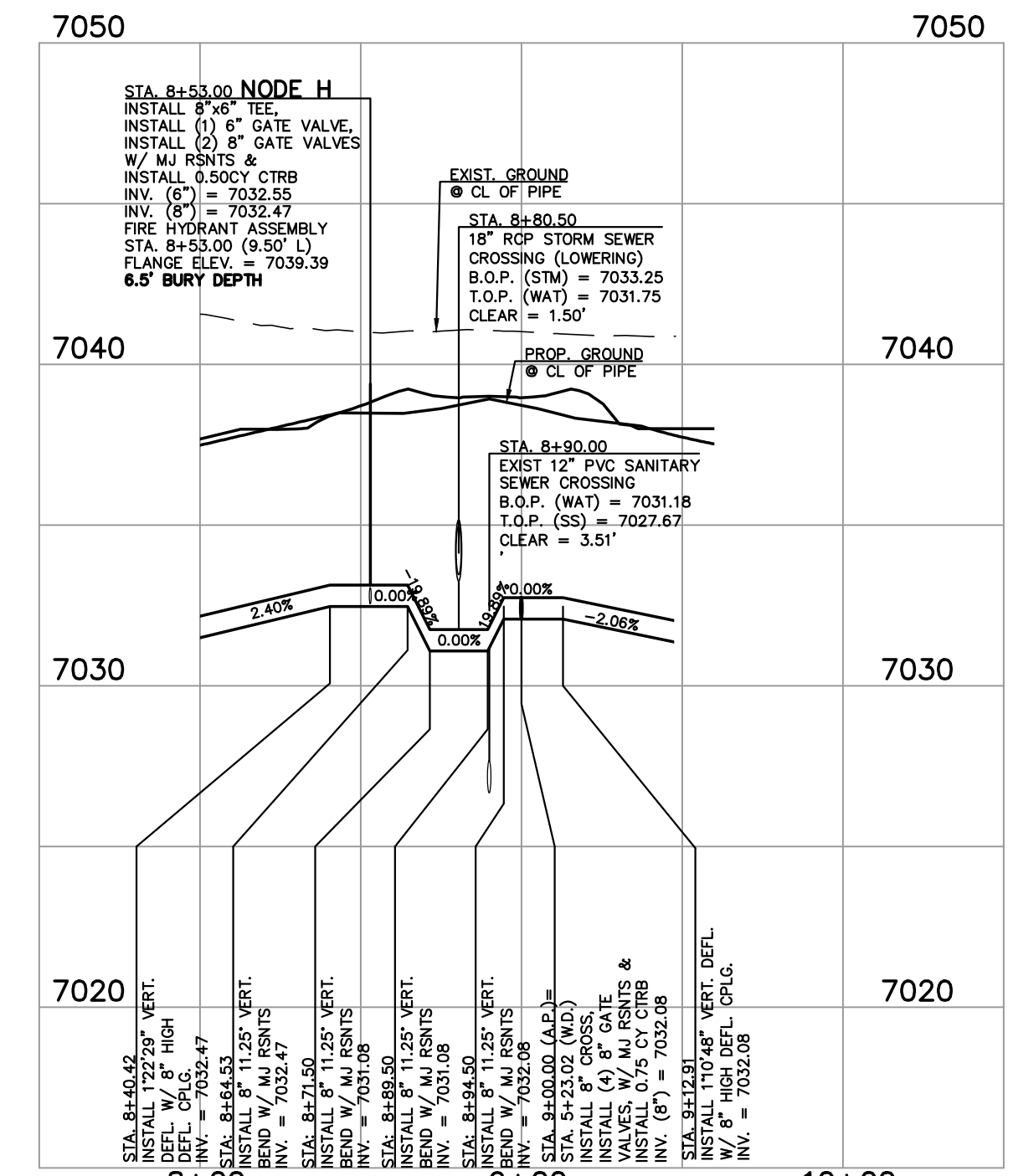
**WATER LOOP 1  
WATER LOWERING  
STA: 11+57.37**  
SCALE 1" = 50' HORIZ.  
1" = 5' VERT.



**WATER LOOP 1  
WATER LOWERING  
STA: 15+28.46-15+81.17**  
SCALE 1" = 50' HORIZ.  
1" = 5' VERT.



**WATER LOOP 1  
WATER LOWERING  
STA: 20+17.56**  
SCALE 1" = 50' HORIZ.  
1" = 5' VERT.



**AMARILLO PLACE  
WATER LOWERING  
STA: 8+50.00**  
SCALE 1" = 50' HORIZ.  
1" = 5' VERT.

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NO.	REVISION	DATE

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CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155 DATE

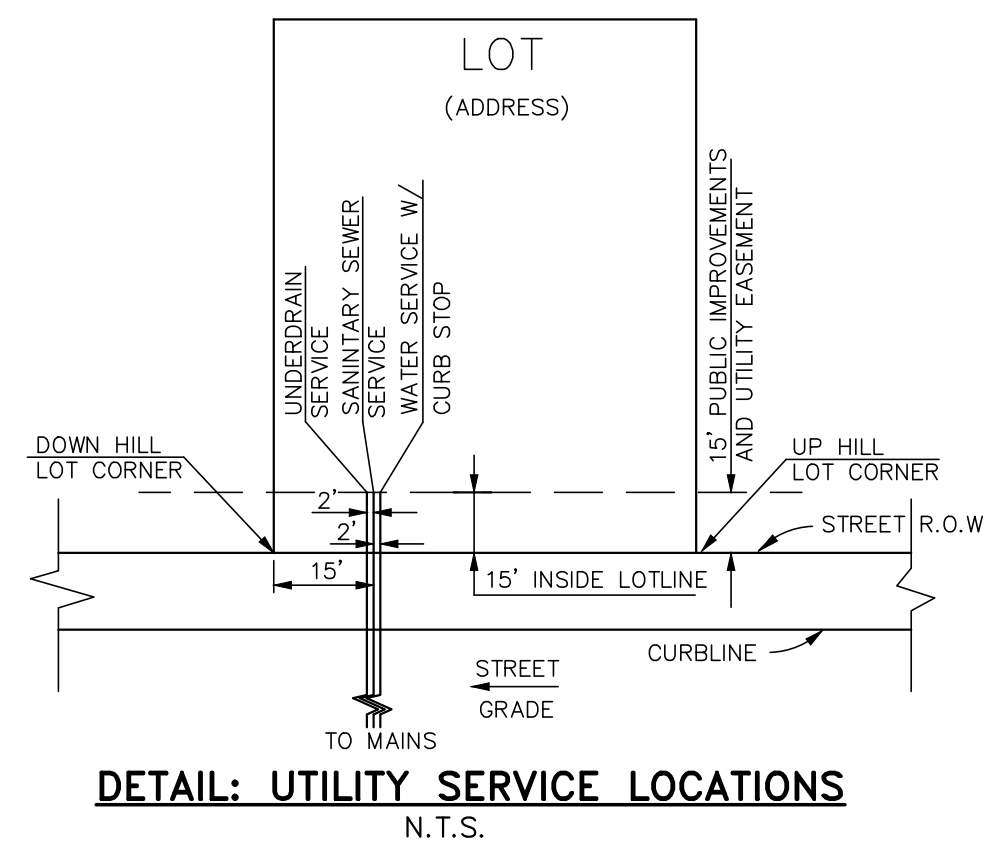


STERLING RANCH EAST  
FILING NO. 3

PUBLIC WATER LOWERINGS

DESIGNED BY	ESO	SCALE	DATE	3/22/2024
DRAWN BY	ESO	(H) 1" = N/A	SHEET	12 OF 16
CHECKED BY	(V) 1" = 5'	JOB NO.	1183.33	

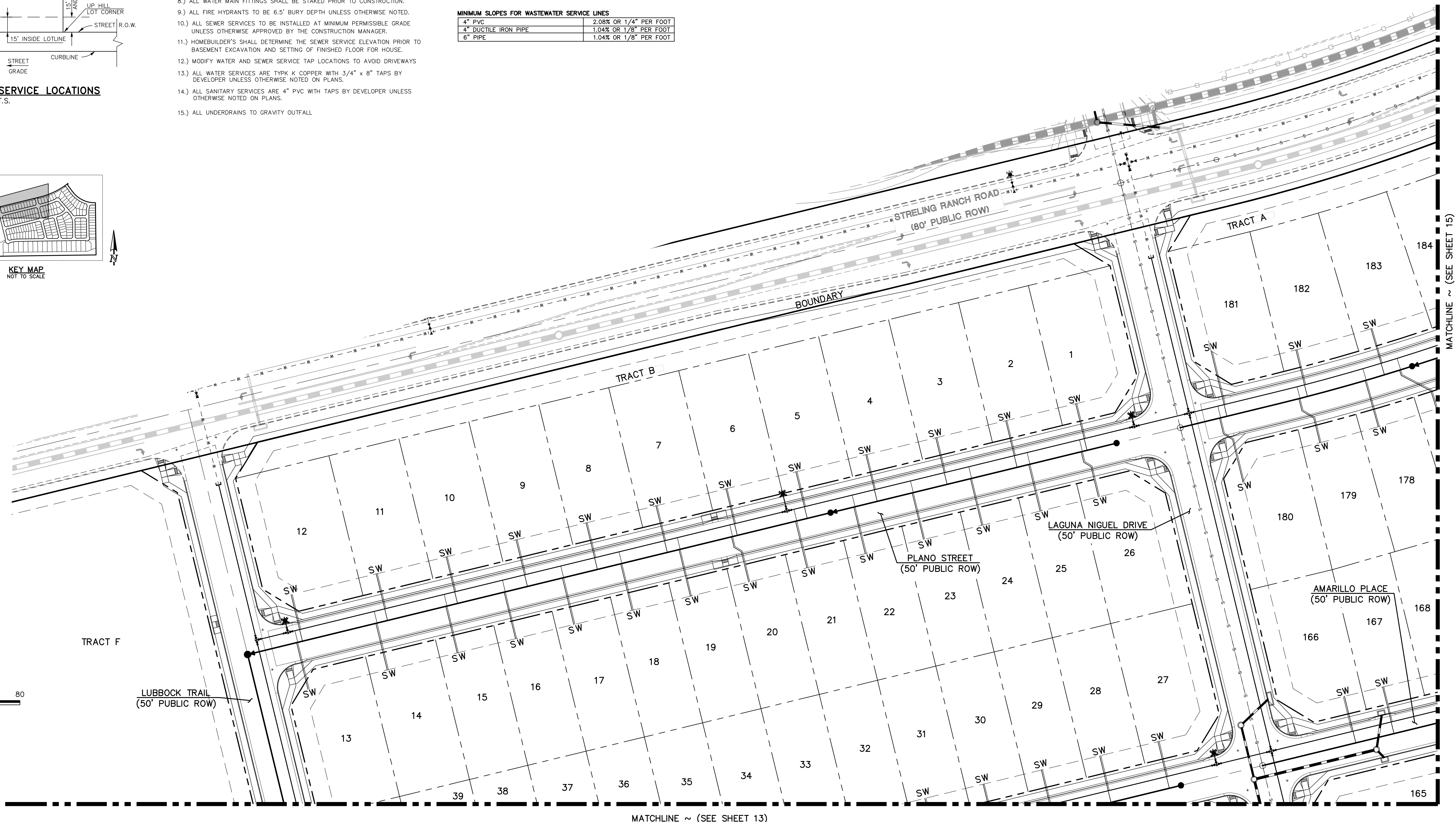
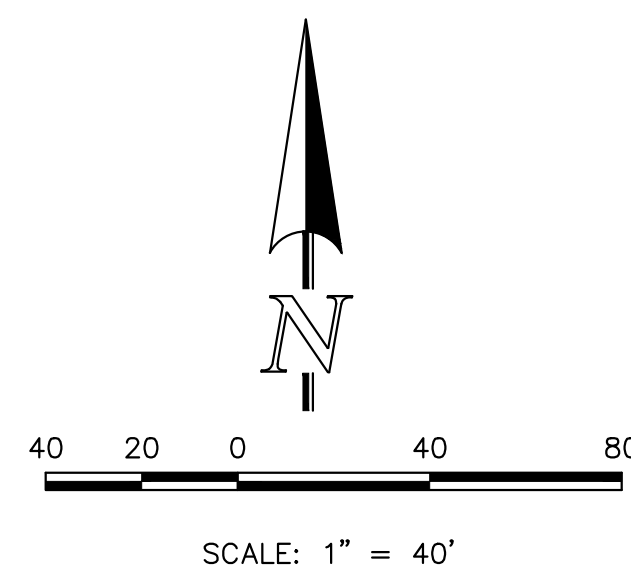
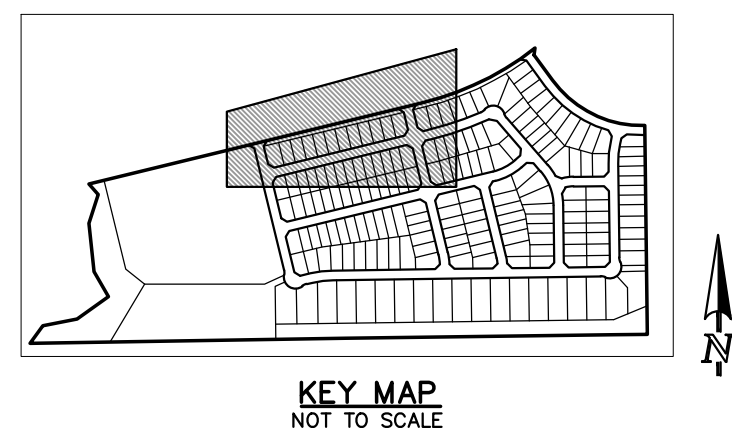




- NOTES:
- 1.) DIMENSIONS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
  - 2.) SEE DISTRICT SPECS. FOR TAPPING SADDLE DETAIL.
  - 3.) FINAL LOCATION OF ALL SEWER, WATER AND GAS SERVICES TO BE APPROVED IN THE FIELD BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
  - 4.) PROPERTY END OF ALL SEWER 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.) HOMEOWNER'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.
  - 15.) ALL UNDERDRAINS TO GRAVITY OUTFALL.

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



LEGEND	
	PROPOSED FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER MAIN
	PROPOSED STORM SEWER
	PROPOSED STORM INLET
	ROW/BOUNDARY LINE
	EXISTING FIRE HYDRANT
	EXISTING WATER MAIN
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MARC A. WHORTON, COLORADO P.E. #37155      DATE

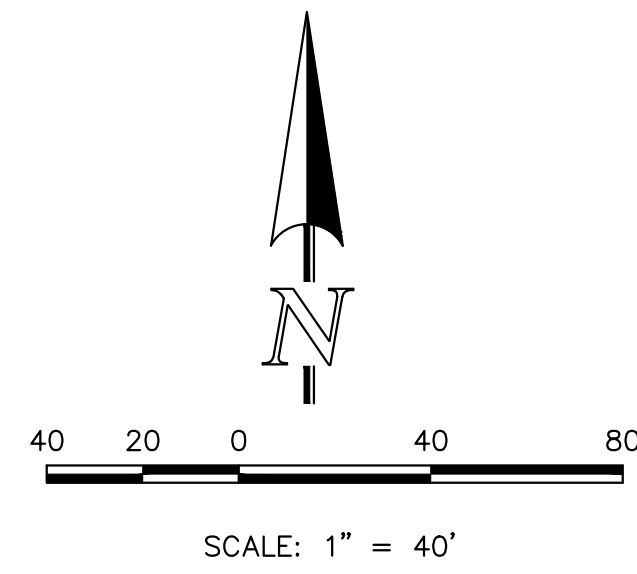
619 N. Cascade Avenue, Suite 200  
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(719) 785-0790  
(719) 785-0799 (Fax)

STERLING RANCH EAST FILING NO. 3			
UTILITY SERVICE PLAN			
DESIGNED BY	ESO	SCALE	DATE 3/22/2024
DRAWN BY	ESO	(H) 1" = 40'	SHEET 13 OF 16
CHECKED BY	(V) 1" = N/A	JOB NO.	1183.33

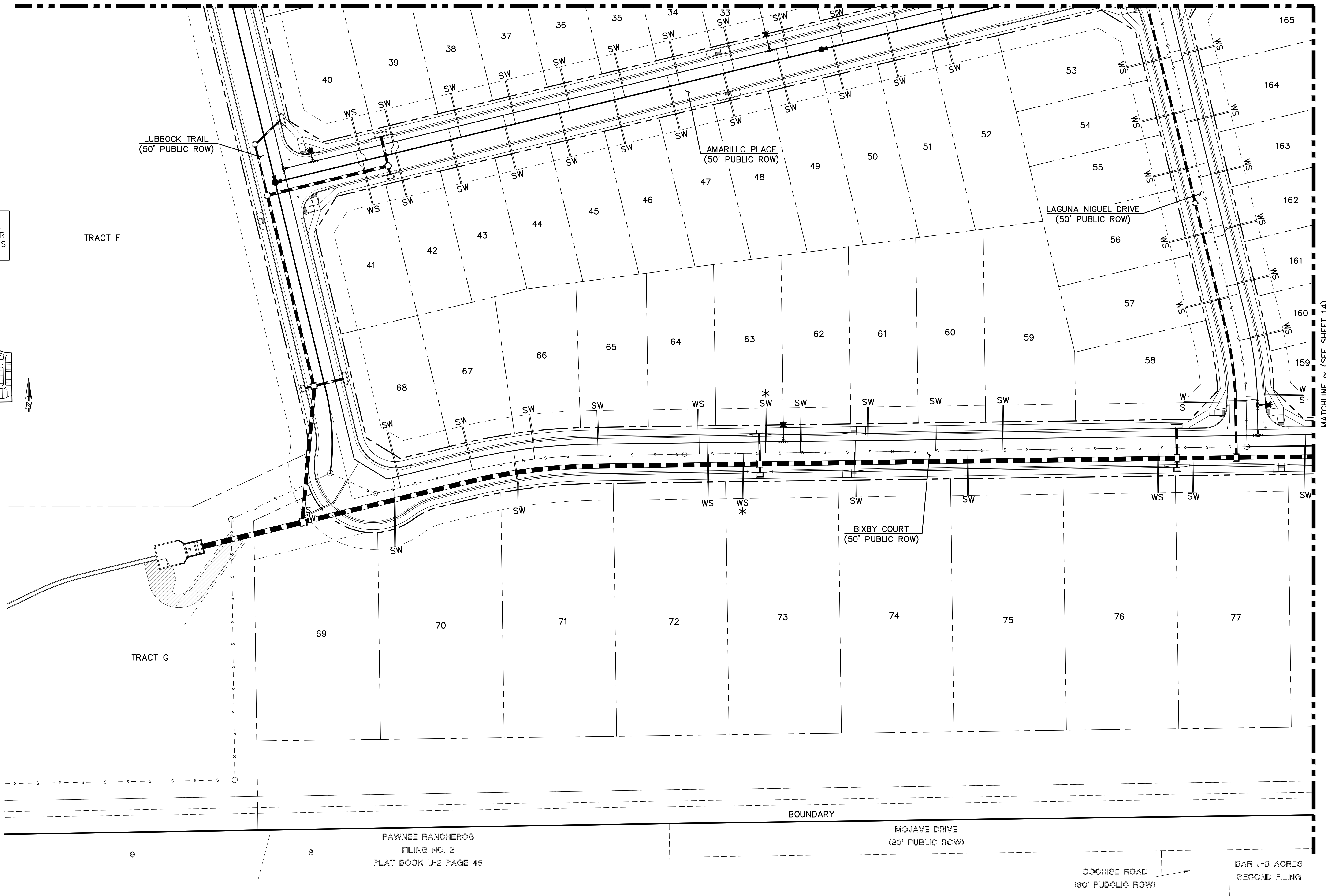
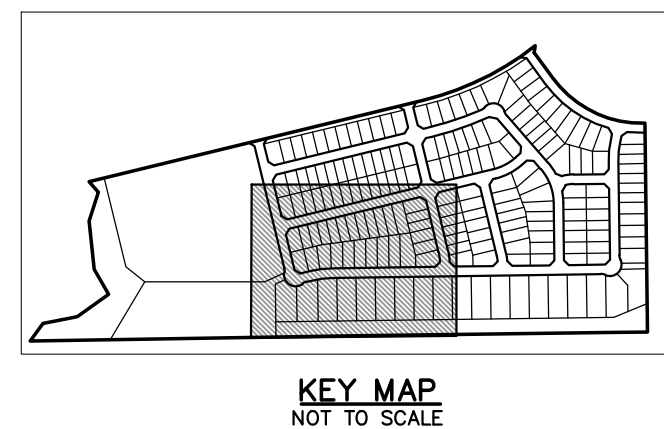
MATCHLINE ~ (SEE SHEET 15)

MATCHLINE ~ (SEE SHEET 13)

MATCHLINE ~ (SEE SHEET 12)



\* SERVICE LINE LOCATIONS ARE NOT STANDARD PER DETAIL ON SHEET 12. WATER SERVICE AND SANITARY SEWER SERVICE LINES ARE TO BE PLACED AS SHOWN ON THIS PLAN.



MATCHLINE ~ (SEE SHEET 14)

TRACT G

TRACT F

PAWNEE RANCHEROS  
 FILING NO. 2  
 PLAT BOOK U-2 PAGE 45

BOUNDARY

MOJAVE DRIVE  
 (30' PUBLIC ROW)

COCHISE ROAD  
 (60' PUBLIC ROW)

BAR J-B ACRES  
 SECOND FILING

LEGEND	
	PROPOSED FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER MAIN
	PROPOSED STORM SEWER
	PROPOSED STORM INLET
	ROW/BOUNDARY LINE
	EXISTING FIRE HYDRANT
	EXISTING WATER MAIN
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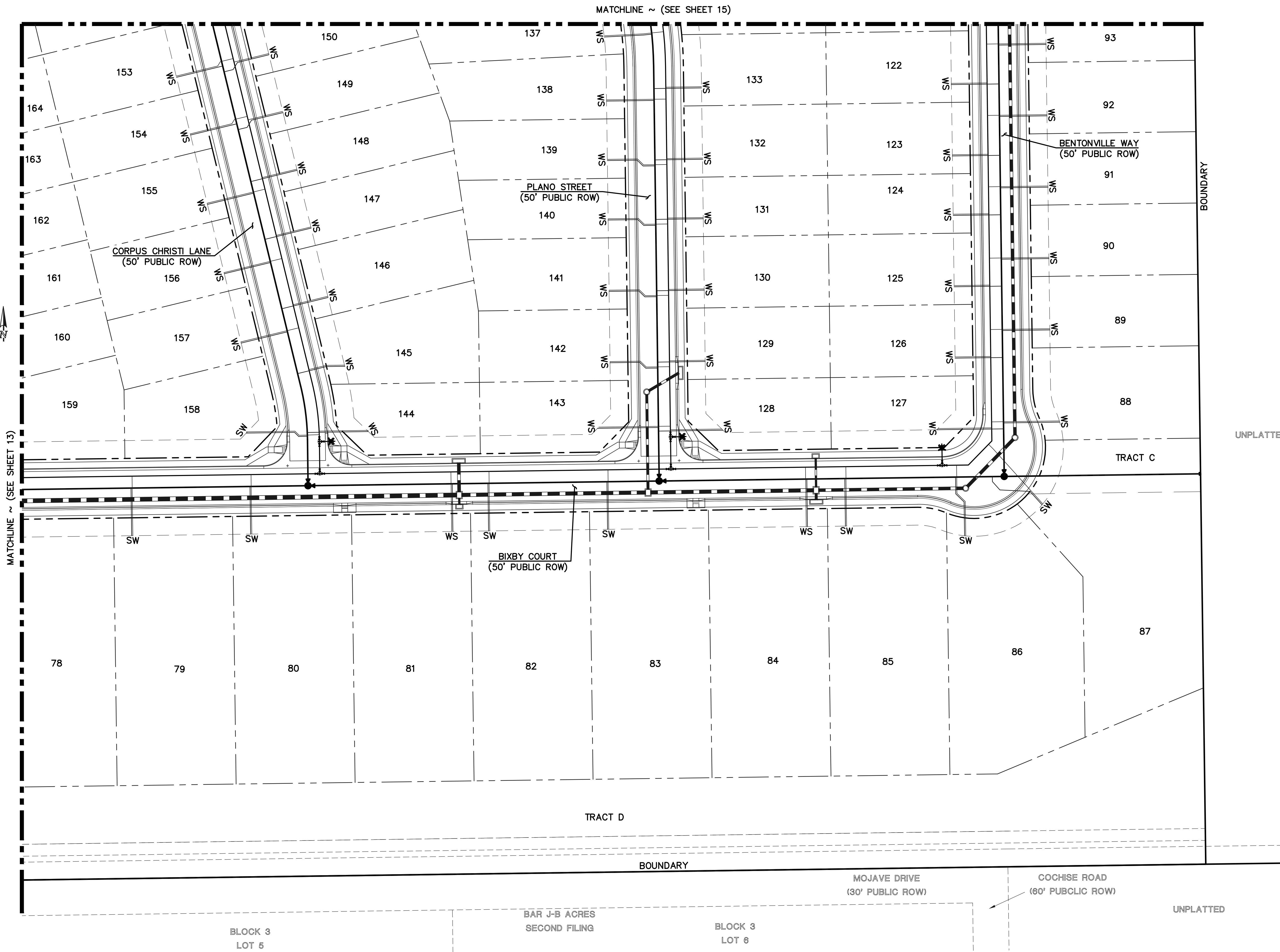
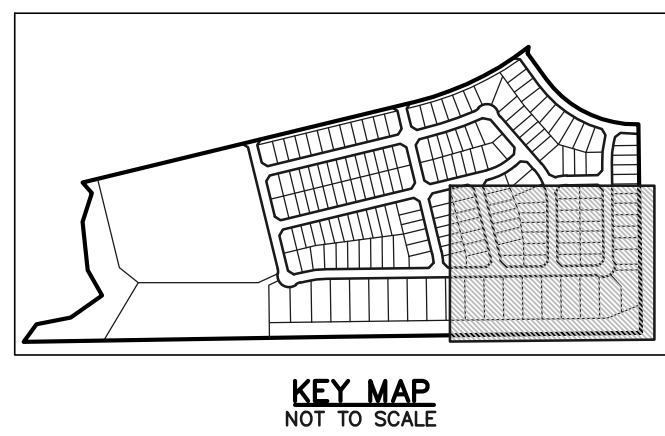
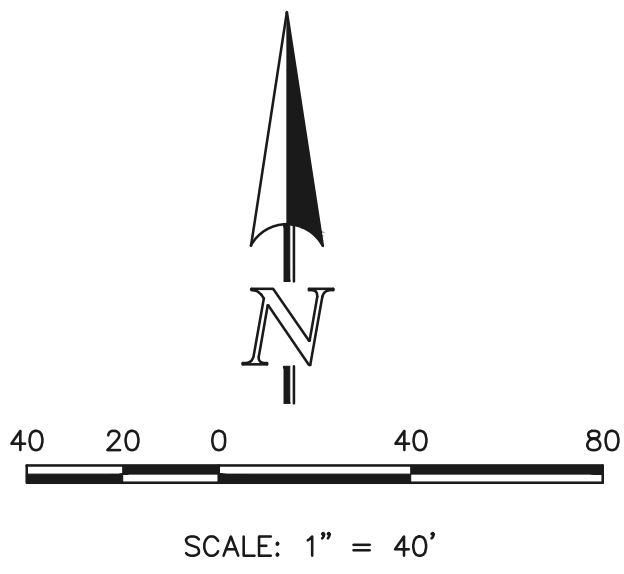
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DRAWN BY	ESO	(H) 1" = 40'	SHEET 14 OF 16
CHECKED BY	(V) 1" = N/A	JOB NO.	1183.33

CLASSIC CONSULTING ENGINEERS & SURVEYORS



MATCHLINE ~ (SEE SHEET 13)

MATCHLINE ~ (SEE SHEET 15)

BOUNDARY

UNPLATTED

TRACT C

TRACT D

BOUNDARY

MOJAVE DRIVE  
(30' PUBLIC ROW)

COCHISE ROAD  
(60' PUBLIC ROW)

UNPLATTED

BLOCK 3  
LOT 5

BAR J-B ACRES  
SECOND FILING

BLOCK 3  
LOT 6

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

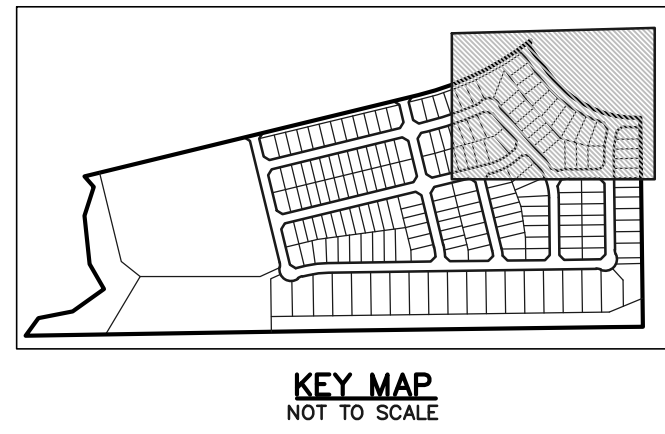
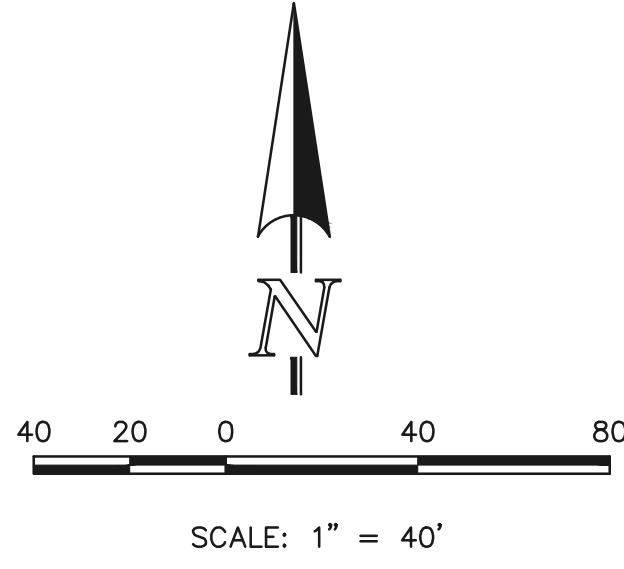
REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155      DATE

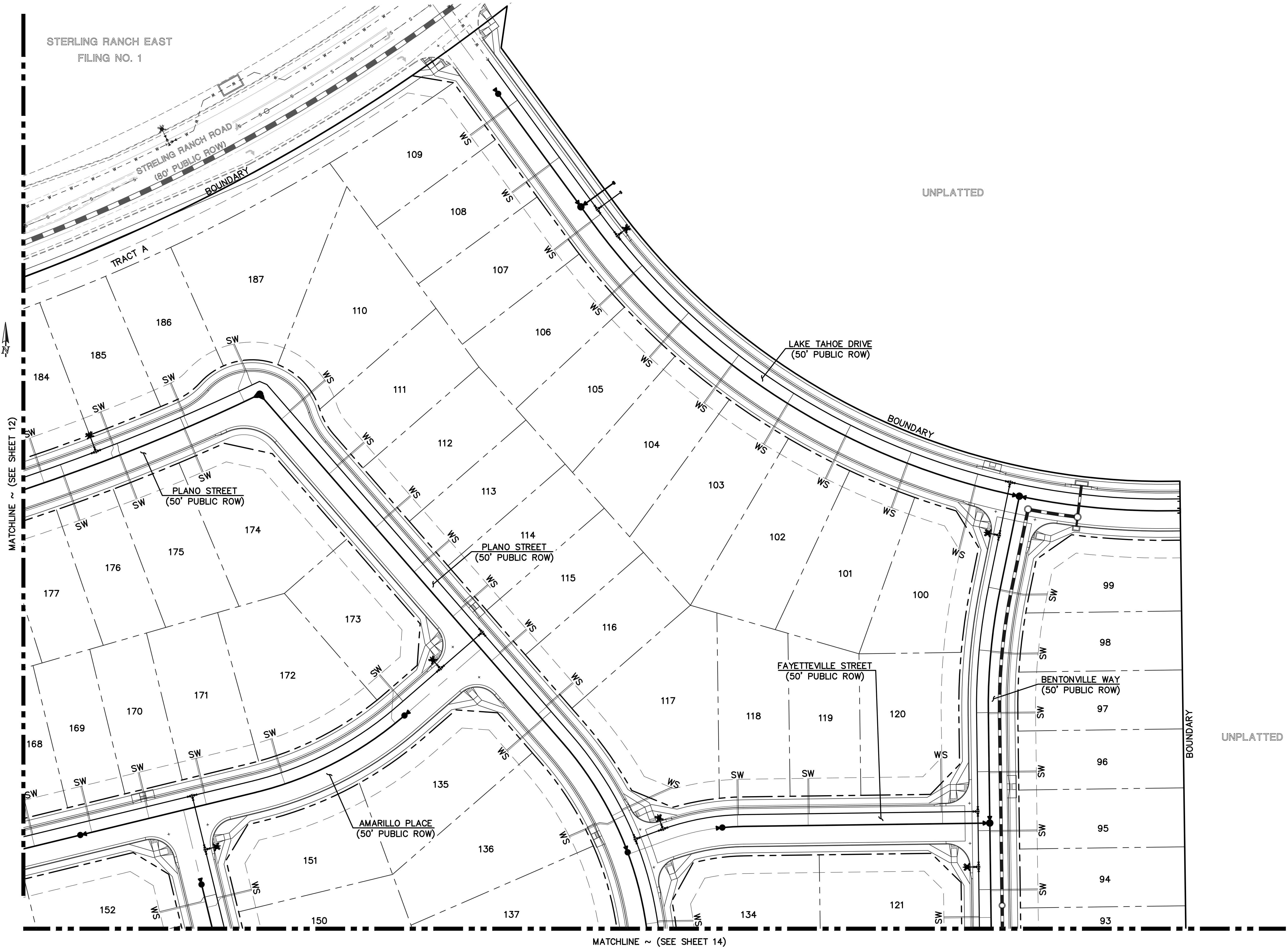
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(Fax)

STERLING RANCH EAST FILING NO. 3			
UTILITY SERVICE PLAN			
DESIGNED BY	ESO	SCALE	DATE 3/22/2024
DRAWN BY	ESO	(H) 1" = 40'	SHEET 15 OF 16
CHECKED BY	(V) 1" = N/A	JOB NO.	1183.33

CLASSIC CONSULTING ENGINEERS & SURVEYORS



STERLING RANCH EAST  
FILING NO. 1



UNPLATTED

UNPLATTED

LEGEND	
	PROPOSED FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER MAIN
	PROPOSED STORM SEWER
	PROPOSED STORM INLET
	ROW/BOUNDARY LINE
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