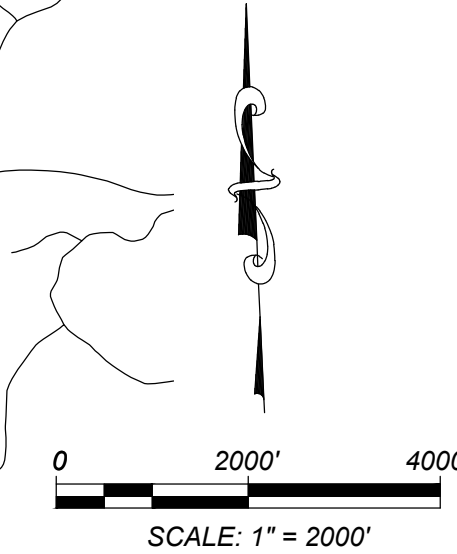
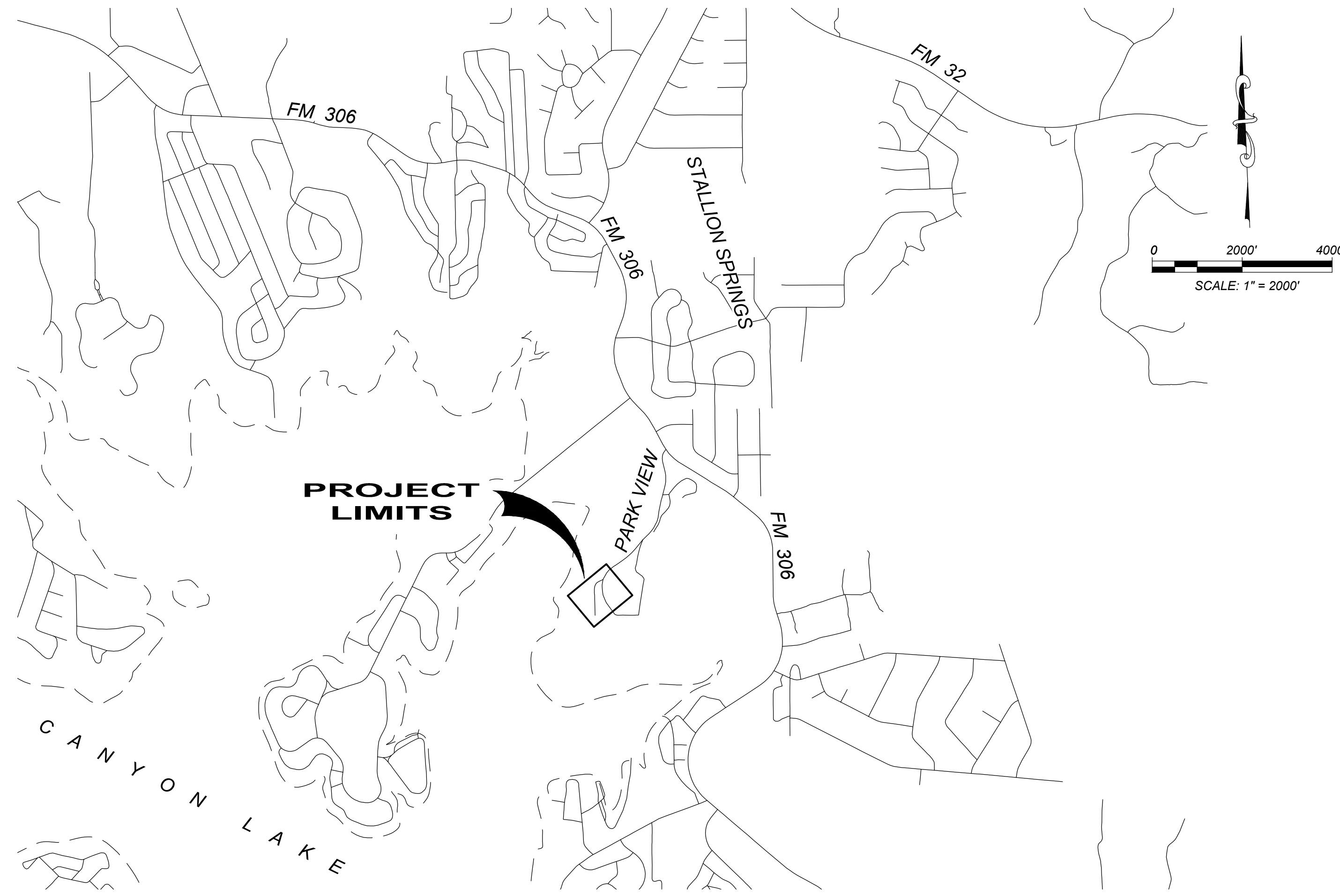
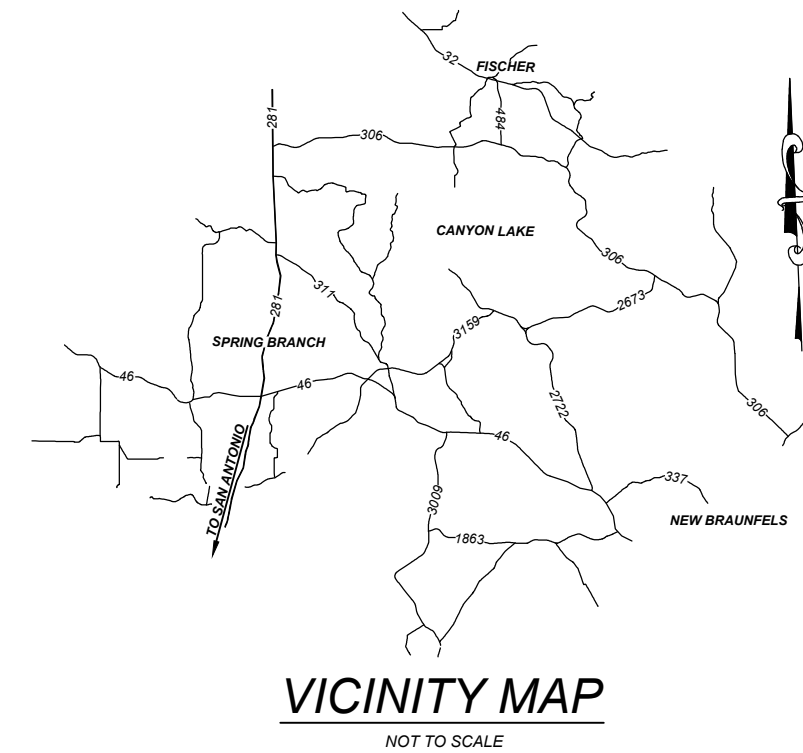


CANYON LAKE WATER SERVICE COMPANY

THE VILLAS - 6" WATER MAIN H91063



ABBREVIATIONS

NOTE: ABBREVIATIONS SHOWN HEREON MAY OR MAY NOT BE EVIDENT ON PLANS.

AB	AGGREGATE BASE	L	LEFT
AC	ASPHALTIC CONCRETE	LG	LIP OF GUTTER
ADA	AMERICAN'S WITH DISABILITIES ACT	LP	LOW POINT
AVE	AVENUE	LVC	LENGTH OF VERTICAL CURVE
BEG.	BEGINNING	N	NORTH
BOT.	BOTTOM	(N)	NEW
BVCE	BEGIN VERTICAL CURVE ELEVATION	OHU	OVER HEAD UTILITY
BVCS	BEGIN VERTICAL CURVE STATION	OS	OFFSET
BW	BACK OF WALK	(P)	PROPOSED
CBMH	CATCH BASIN MANHOLE	PB	PULL BOX
CL	CENTERLINE	PGL	PROFILE GRADE LINE
CLF	CHAIN LINK FENCE	POL	POINT ON LINE
CMP	CORRUGATED METAL PIPE	PVI	POINT OF VERTICAL INTERSECTION
CONC.	CONCRETE	RCP	REINFORCED CONCRETE PIPE
DCV	DOUBLE CHECK VALVE	RD	ROAD
DEMO	DEMOLITION	ROW	RIGHT OF WAY
DI	DROP INLET	S	SLOPE
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
DWY	DRIVEWAY	SDMH	STORM DRAIN MANHOLE
E	EAST	SGN	SIGN
(E)	EXISTING	SL	STREET LIGHT
ELEV.	ELEVATION	SS	SANITARY SEWER
ELEC.	ELECTRICAL	SSCO	SANITARY SEWER CLEAN OUT
ELEV.	ELEVATION	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	STA	STATION
EVCE	END VERTICAL CURVE ELEVATION	STD	STANDARD
EVCS	END VERTICAL CURVE STATION	SW	SIDEWALK
(E)	EXISTING	TBR	TO BE REMOVED
FC	FACE OF CURB	TC	TOP OF CURB
FD	FOUND	TCE	TEMPORARY CONSTRUCTION EASEMENT
FH	FIRE HYDRANT	TEL	TELEPHONE
FL	FLOWLINE	TFL	TOP OF FLOWLINE
FS	FINISHED SURFACE	TG	TOP OF GRATE
GB	GRADE BREAK	TV	TELEVISION
GM	GAS METER	(TYP)	TYPICAL
GV	GAS VALVE	VLT	VAULT
HB	HOSE BIB	W	WATER
HP	HIGH POINT	WM	WATER METER
ICV	IRRIGATION CONTROL VALVE	WV	WATER VALVE
INV	INVERT		

CAUTION!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCK BANKS, LANDSCAPE IRRIGATION FACILITIES AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION, ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTORS SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND / OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRIC/UTILITY COMPANY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH LOCAL ELECTRIC/UTILITY COMPANY.

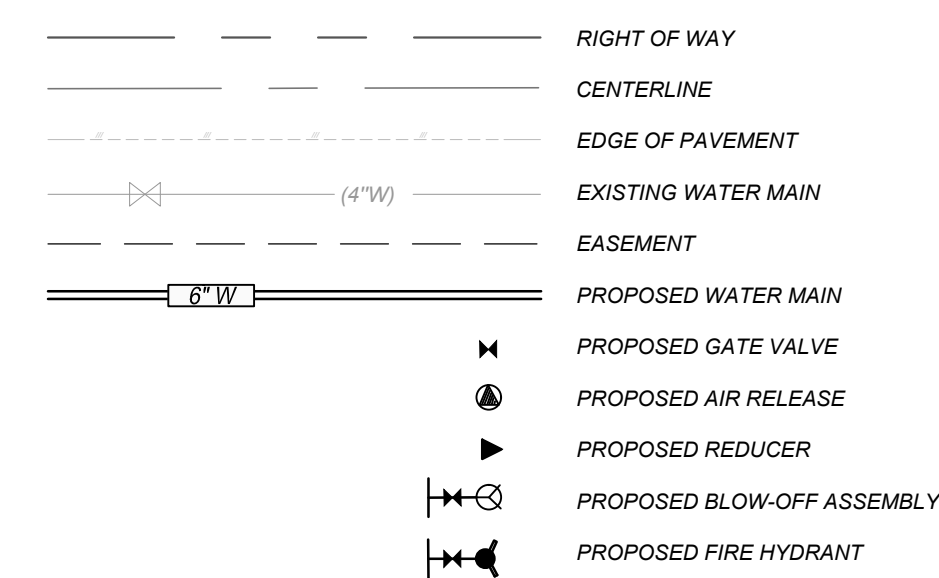
TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTORS IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM AND ACTIVITIES WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES, INCLUDING SERVICE LATERALS AND DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT, AND TO PROTECT THE SAME DURING CONSTRUCTION.

CABLE (GVTC COMMUNICATIONS) (830) 885-4411 TOLL FREE (800) 367-4882

THE TRACT SHOWN HEREON LIES WITHIN ZONE X (AREAS TO BE DETERMINED TO BE OUTSIDE 100-YEAR FLOODPLAIN) AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, AS SHOWN ON MAP NO. 48091C0105F, DATED SEPTEMBER 2, 2009, FOR COMAL COUNTY, TEXAS AND INCORPORATED AREAS.

LEGEND



CANYON LAKE WATER SERVICE COMPANY

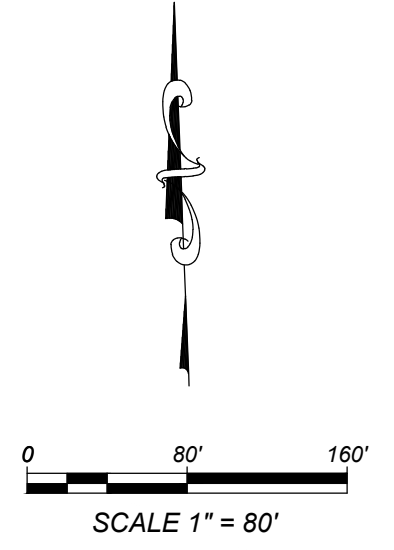
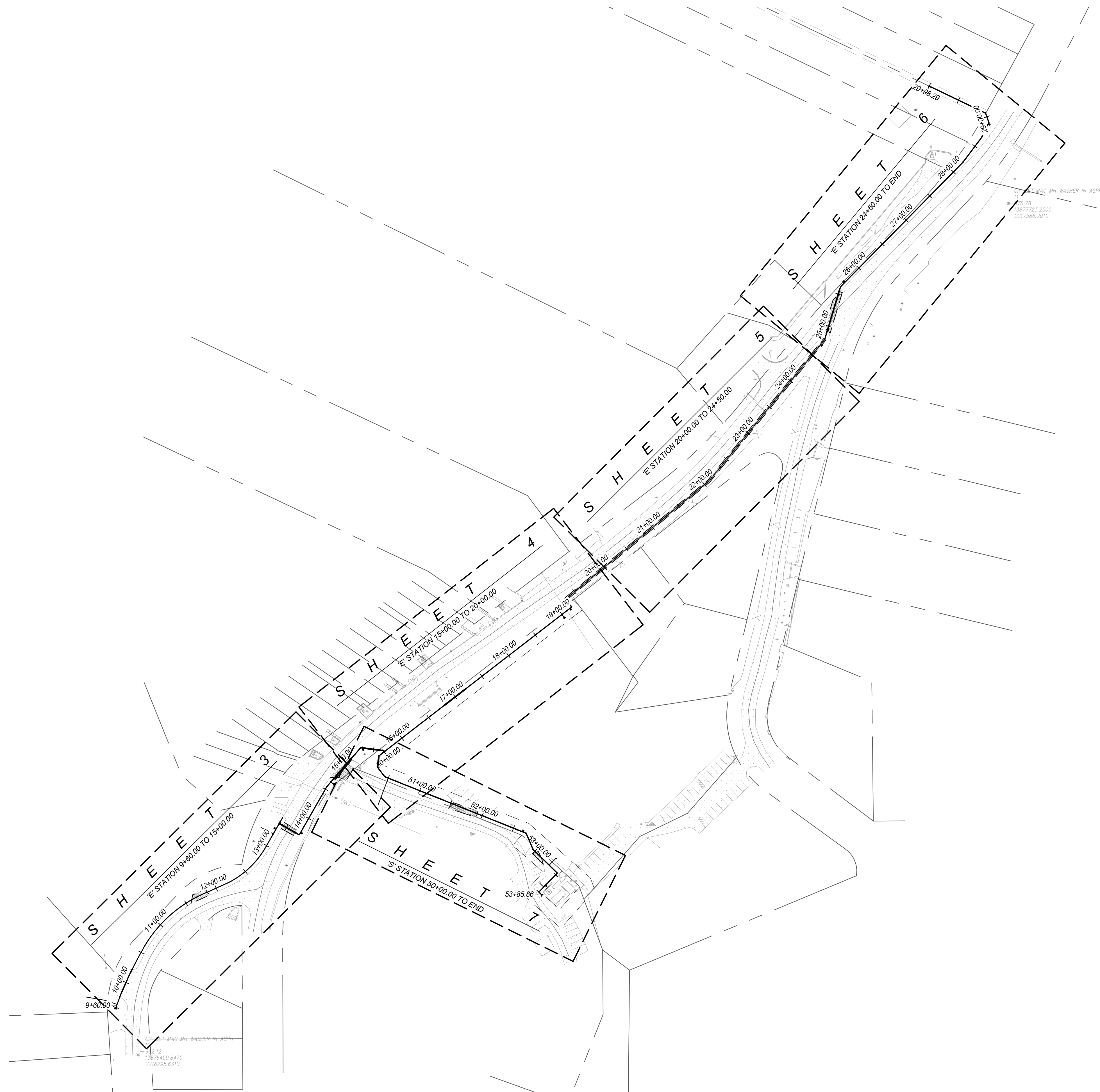
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(830) 964-3854

SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES AND SHEET LAYOUT
3	PLAN AND PROFILE
4	PLAN AND PROFILE
5	PLAN AND PROFILE
6	PLAN AND PROFILE
7	PLAN AND PROFILE
8	DETAILS

CLWSC- WATER NOTES:

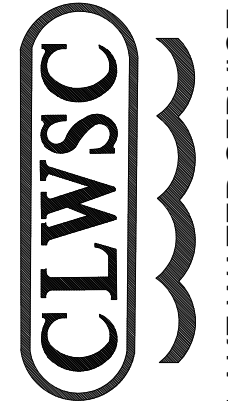
1. NO CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL A PRECONSTRUCTION MEETING HAS BEEN HELD BETWEEN THE CONTRACTOR, ENGINEER OF RECORD, AND A REPRESENTATIVE OF CLWSC.
2. IT IS THE INTENT OF THESE PLANS TO SHOW THE LOCATION OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH EXISTING RECORDS. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND FACILITIES PRIOR TO EXCAVATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES TO EXISTING FACILITIES.
3. BOUNDARY FENCES OR OTHER IMPROVEMENTS REMOVED TO PERMIT CONSTRUCTION SHALL BE REPLACED IN THE SAME LOCATION AND IN SAME CONDITION AS GOOD OR BETTER THAN IN WHICH THEY WERE FOUND. NO COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR REMOVAL AND REPLACEMENT OF FENCES.
4. CONTRACTOR SHALL NOTIFY THE CLWSC (830 964 3854) AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION.
6. CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRIVATE PROPERTY WITHOUT PRIOR WRITTEN AGREEMENT WITH THE PROPERTY OWNER. A COPY OF ANY WRITTEN AGREEMENT BETWEEN PROPERTY OWNER AND CONTRACTOR SHALL BE FURNISHED TO CLWSC.
7. NO EXCESS EXCAVATION MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
8. ALL VEGETATED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITIONS THAN FOUND PRIOR TO THE BEGINNING OF CONSTRUCTION.
9. BEFORE FINAL COMPLETION OF THE PROPOSED WORK, ALL ROADWAY, SLOPES, DITCHES AND BERMS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
10. REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, VEGETATION, LOGS, RUBBISH AND OTHER OBJECTIONABLE MATTER WITHIN THE LIMITS OF AREA AFFECTED BY THE WORK, INCLUDING ALL AREAS TO BE RE GRADED. PROTECT TREES, SHRUBS, AND OTHER LANDSCAPE FEATURES SPECIFICALLY DESIGNATED FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
11. CONTRACTOR TO CONFIRM ACTUAL HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES, PIPING, PAVING, FENCING AND ALL OTHER EXISTING FACILITIES PRIOR TO CONSTRUCTION.
12. CONTRACTOR SHALL COORDINATE FOR ALL NECESSARY UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
13. CONTRACTOR SHALL NOTIFY TEXAS DEPARTMENT OF TRANSPORTATION AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE STATE RIGHT OF WAY.
14. CONTRACTOR SHALL NOT OPEN CUT ANY IMPROVED DRIVEWAY IN STATE RIGHT OF WAY WITHOUT PRIOR WRITTEN APPROVAL OF PROPERTY OWNER.
15. FINE GRADE AREAS TO ACHIEVE FINAL CONTOURS INDICATED OR RESTORE EXISTING GRADES. REMOVE RUBBISH VEGETATION AND ROCKS OVER 1 1/2" IN DIAMETER. ADJUST CONTOURS TO ACHIEVE POSITIVE DRAINAGE AWAY FROM STRUCTURES. PROVIDE UNIFORM ROUNDING AT TOP AND BOTTOM OF SLOPES AND OTHER BREAKS IN GRADE. CORRECT IRREGULARITIES AND AREAS WHERE WATER WILL STAND.
16. NO UTILITY TRENCHES OR PITS ARE TO BE LEFT OPEN OVERNIGHT. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE SAFETY MEASURES ARE IN PLACE FOR BOTH HUMANS AND LIVESTOCK FOR ANY TRENCH LEFT OPEN OVERNIGHT. BACKFILLING WILL OCCUR DAILY AND AS SOON AS PRACTICAL FOLLOWING CONSTRUCTION OPERATIONS.
17. THE MOST RECENT CLWSC STANDARDS AND SPECIFICATIONS SHALL APPLY TO ALL CONSTRUCTION REGARDLESS OF INFORMATION PROVIDED ON PLANS. CONTRACTORS ARE ENCOURAGED TO VERIFY CURRENT INFORMATION WITH CLWSC STAFF PRIOR TO THE BEGINNING OF CONSTRUCTION.
18. ALL ROAD CROSSING UNDER COMAL COUNTY ROADWAYS SHALL REQUIRE A SEPARATE PERMIT FROM THE COMAL COUNTY ENGINEER. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS AND SHALL CONSTRUCT ALL CROSSINGS IN ACCORDANCE WITH COMAL COUNTY STANDARDS.
19. FOLLOW METHODS AND PROCEDURES OF SHUTDOWN AS DIRECTED BY THE CLWSC STAFF.
20. NOTIFY CONSUMERS OF, AND COORDINATE ALL SHUTDOWNS WITH CLWSC, PER CLWSC GUIDELINES.
21. ESTABLISH PIPE GRADES USING TOP OF FINISHED GRADE UNLESS OTHERWISE INDICATED ON PLANS.
22. GRADE MAIN TO AVOID USE OF AIR VALVES.
23. MAINTAIN MINIMUM 10 FEET CLEARANCE BETWEEN MAINS AND SANITARY SEWERS.
24. CONSTRUCT ALL CROSSINGS WITH SANITARY SEWER FACILITIES IN ACCORDANCE WITH THE MOST RECENT VERSION OF APPLICABLE TCEQ STANDARDS.
25. MAINTAIN MINIMUM 10 FEET CLEARANCE BETWEEN HYDRANTS AND DRIVEWAYS.
26. INSTALL SERVICES SUCH THAT CONSUMER'S LINES DO NOT CROSS DRIVEWAYS.
27. SHALL PROVIDE A CLEAN NEAT AS BUILT DRAWING WITHIN 30 DAYS OF JOB COMPLETION IN BOTH PAPER AND ELECTRONIC (.PDF) FORMAT.
28. USE DUCTILE IRON FITTING WITH MECHANICAL JOINT AND MEGALUG PER CLWSC STANDARD SPECIFICATIONS ON ALL PIPE REGARDLESS OF PIPE MATERIAL UNLESS OTHERWISE INDICATED ON PLANS.
29. INSTALL ALL APPURTENANCES ON WATER MAIN IN ACCORDANCE WITH APPLICABLE CLWSC STANDARD DETAILS.
30. INSTALL TRACER WIRE ON ALL WATER MAINS LOCATED IN COMMERCIAL SUBDIVISIONS AND RESIDENTIAL SUBDIVISIONS WITH URBAN STREET CROSS SECTIONS.
31. MAINTAIN A COPY OF THE STAMPED SET OF PLANS "APPROVED FOR CONSTRUCTION" ON THE JOB SITE AT ALL TIMES.



PRELIMINARY PLANS
...NOT FOR CONSTRUCTION...
CLWSC

THE VILLAS 6" WATER MAIN

GENERAL NOTES AND
SHEET LAYOUT



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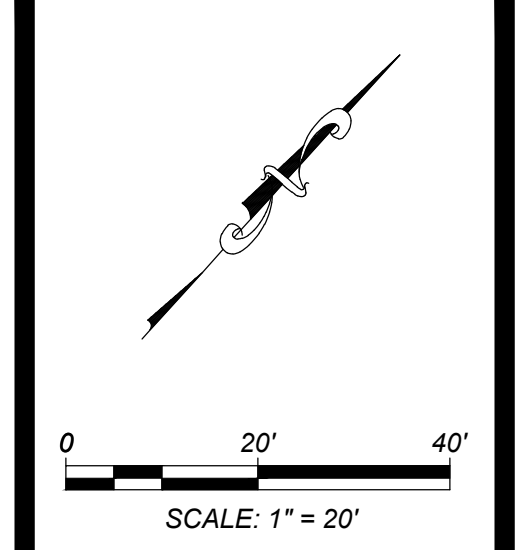
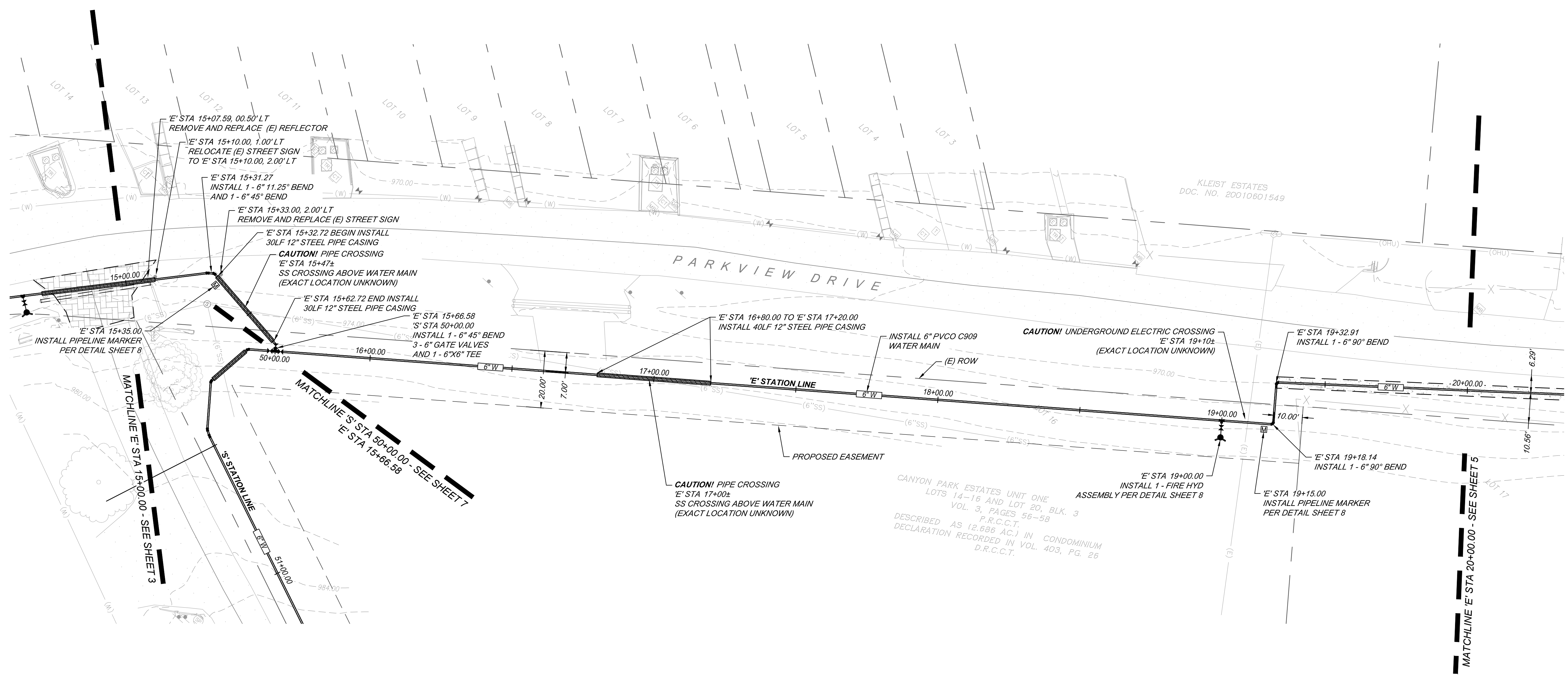
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DESIGNED BY: GP
DRAFTED BY: TB
CHECKED BY: HW

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February 13, 2020

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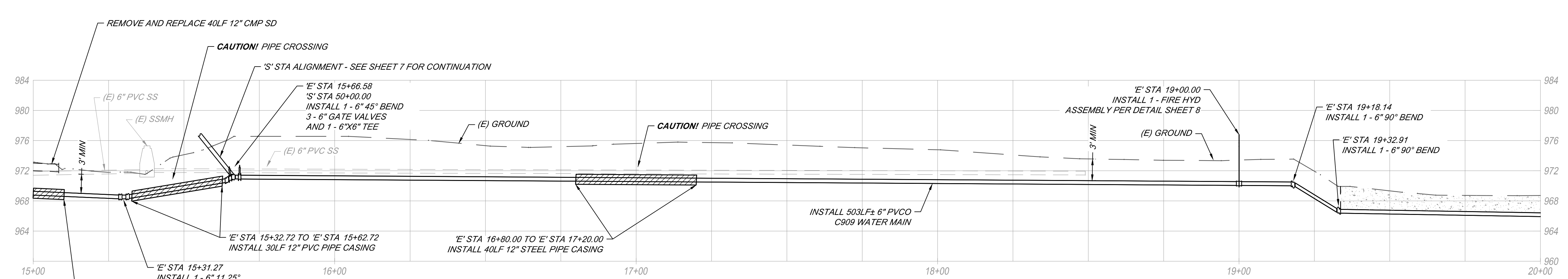


PRELIMINARY PLANS
...NOT FOR CONSTRUCTION...

THE VILLAS 6" WATER MAIN

PLAN AND PROFILE

CLWSC
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PROFILE STA 15+00.00 TO STA 20+00.00
SCALE H: 1" = 20' V: 1" = 8'

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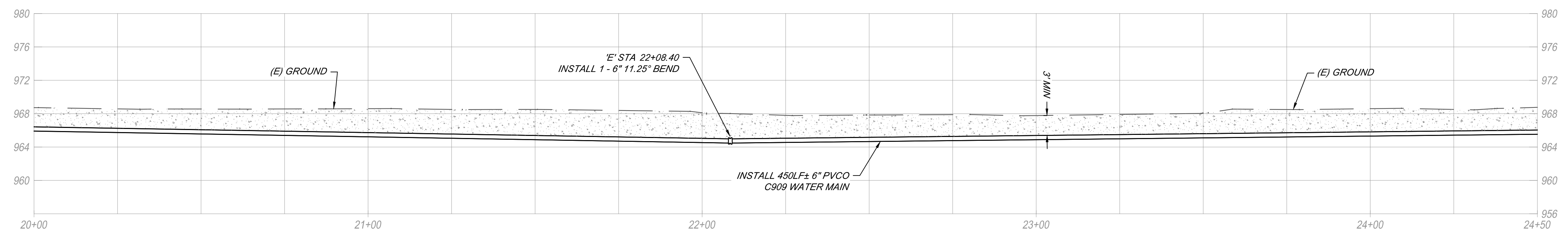
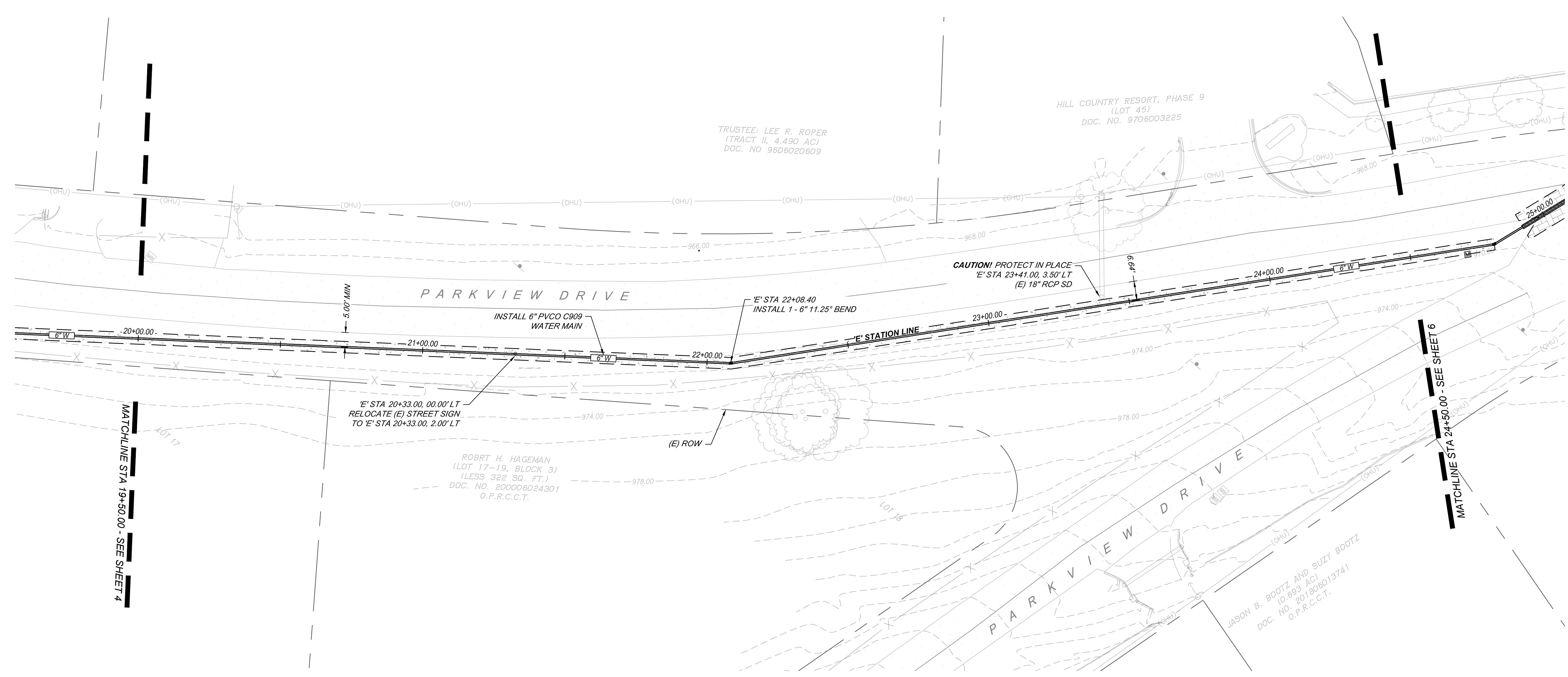
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SHEET
4 OF 8

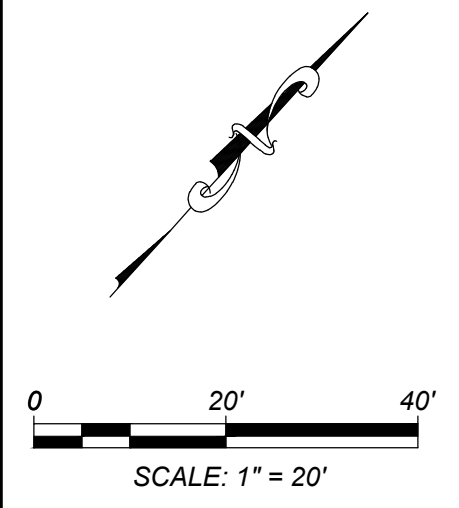
February 13, 2020

Date: Feb 14, 2020, 10:24am User: G. Bryant
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Date: Feb 14, 2020, 10:24am User: G. Bryant
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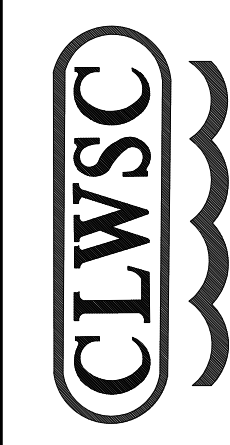
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PRELIMINARY PLANS
 ...NOT FOR CONSTRUCTION...
 CLWSC

THE VILLAS 6" WATER MAIN

PLAN AND PROFILE

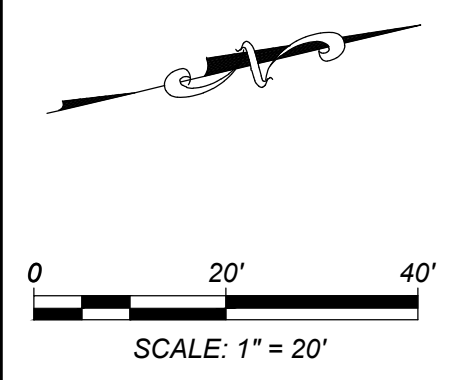
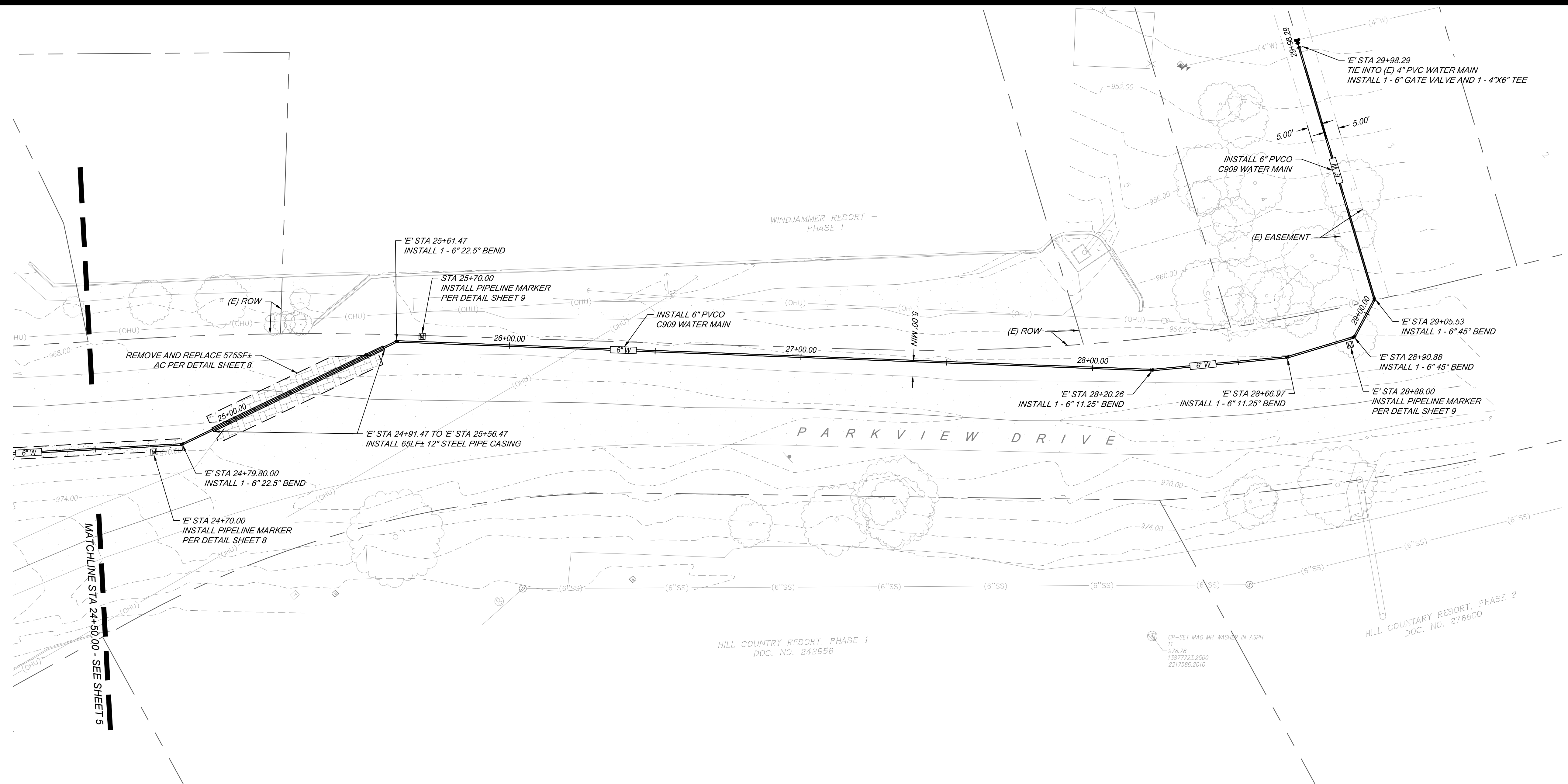


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SHEET
 5 OF 8
 February 13, 2020

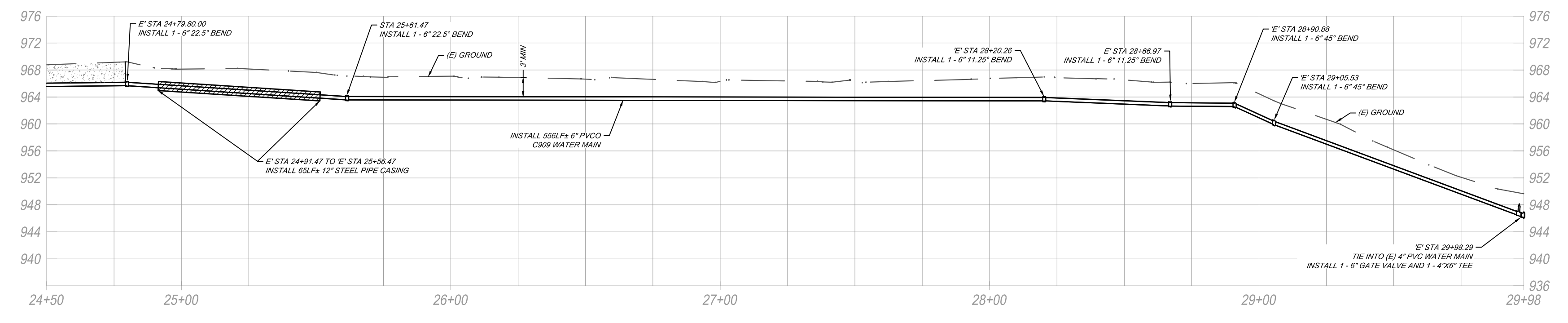


PRELIMINARY PLANS
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THE VILLAS 6" WATER MAIN

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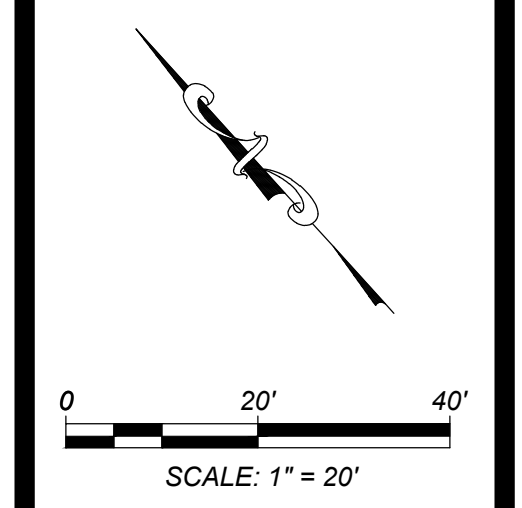
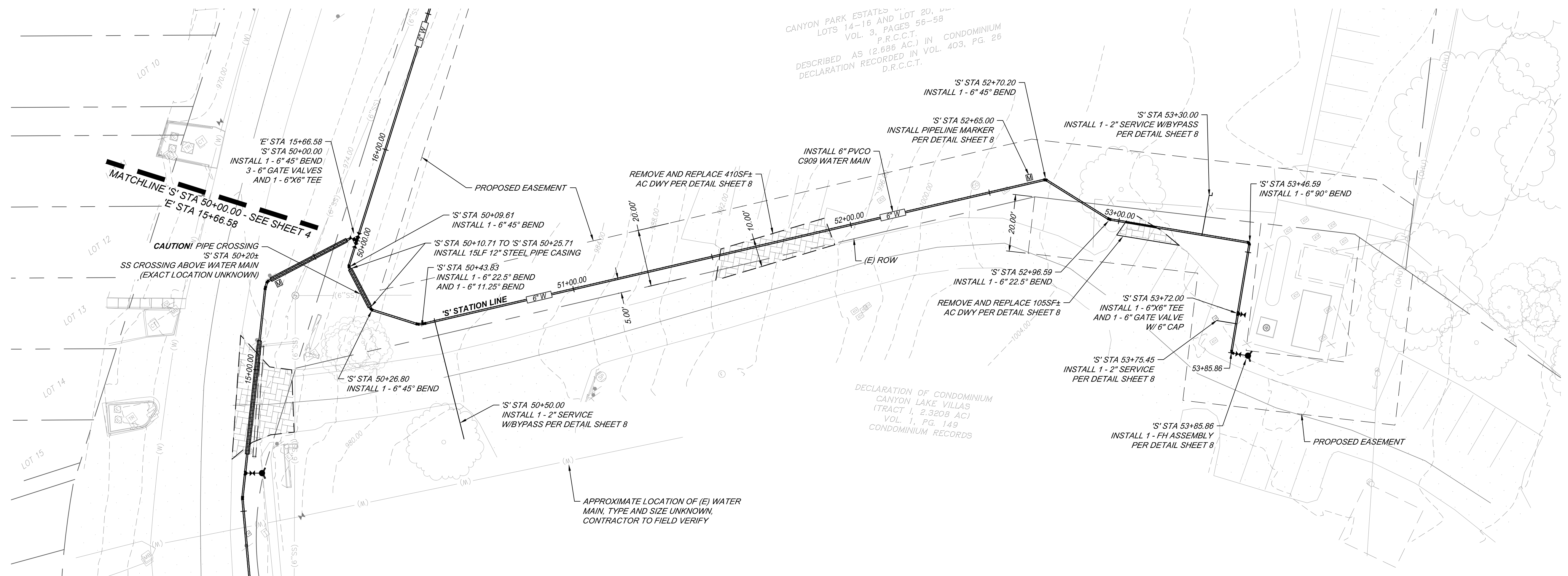
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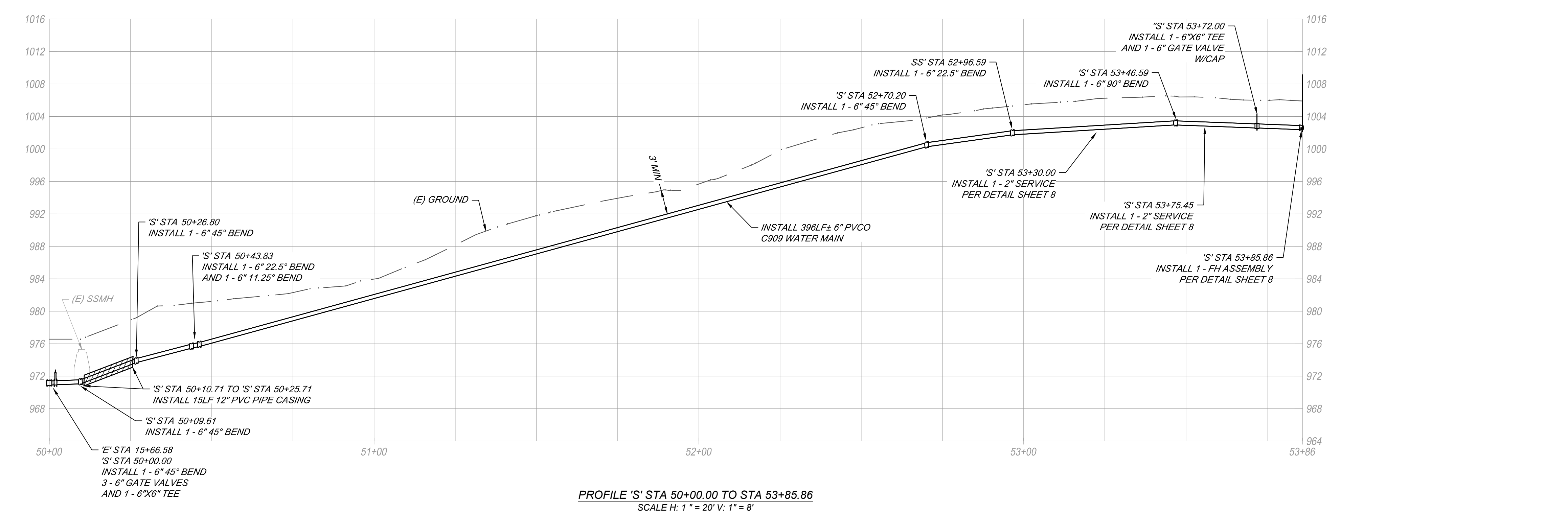
SHEET
6 OF 8
February 13, 2020

Date: Feb 14, 2020, 10:26am User: G. Bryant
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PRELIMINARY PLANS
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THE VILLAS 6" WATER MAIN
PLAN AND PROFILE



PROFILE 'S' STA 50+00.00 TO STA 53+85.86
SCALE H: 1" = 20' V: 1" = 8'

Date: Feb 14, 2020, 10:26am User: G. Bryant
File: 2: Engineering (PROJ) 2019 Projects Canyon Park Estates 2019 W/10007 The Villas CL Design Sheet 3-B Plan View

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