



## CITY OF SUNSET VALLEY 2021-2022 CIP PROJECTS

### Sheet List Table

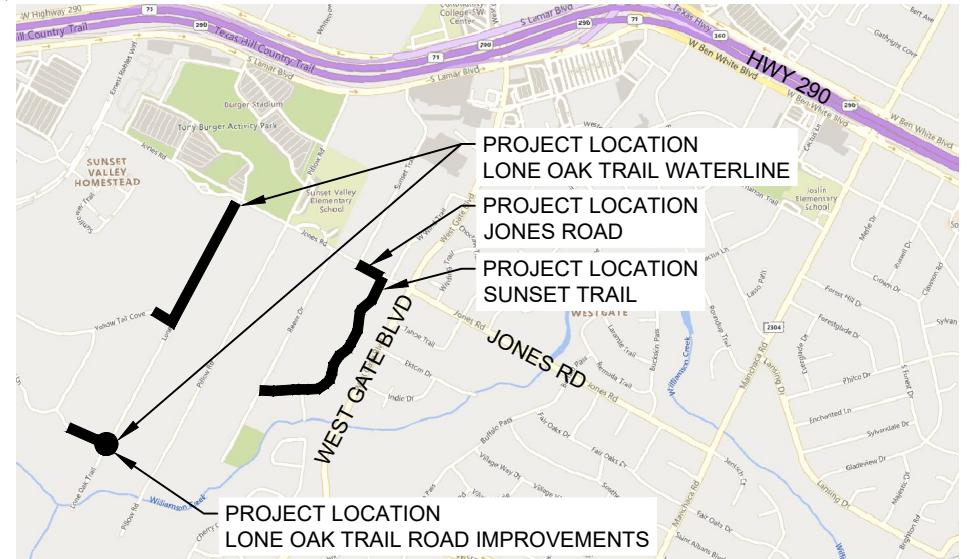
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**MAYOR**  
MARC BRUNER

**CITY COUNCIL**  
KAREN MEDICUS  
ROBERT JOHNSON  
CHARLES YOUNG  
WANDA REETZ  
RUDI ROSENGARTEN

**CITY ADMINISTRATOR**  
MATT LINGAFELTER

**DIRECTOR OF PUBLIC WORKS**  
CAROLYN MEREDITH



**VICINITY MAP**  
SCALE: 1" = 2000'



THE LOCATION 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. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH RESULT FROM THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

APPROVAL	DATE: 01/13/2023	NO.
REVISION	DATE: 01/13/2023	NO.
 <b>Freeland &amp; Turk</b> <b>Engineering Group</b>		
COVER	2021-2022 CIP PROJECTS	CITY OF SUNSET VALLEY, TEXAS
PLOTTING SCALE: AS SHOWN FILE: C0.0 COVER.dwg DRAWN BY: BAM DESIGNED BY: BAM REVIEWED BY: GFTT PROJECT NO.: 120-108		
<b>SHEET</b>		<b>C0.0</b>

## **GENERAL NOTES:**

1. CONTRACTORS SHALL NOTIFY THE ENGINEER AND PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO STARTING CONSTRUCTION OR CLEARING OPERATIONS.
2. THE STANDARD SPECIFICATIONS ORIGINATING FROM THE CITY OF AUSTIN AND ADOPTED BY THE CITY OF SUNSET VALLEY FOR THIS PROJECT CURRENT AT THE TIME OF ADVERTISEMENT OF BIDS SHALL GOVERN MATERIALS AND METHODS USED TO PERFORM THIS WORK. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATE STATUTES AND U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE OBTAINED FROM O.S.H.A. AT 1033 LA POSADA DR., SUITE 375, AUSTIN, TEXAS 78752-3832.
3. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER AND HIS EMPLOYEES, PARTNERS, OFFICERS, DIRECTORS, OR CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
4. OFF-SITE DISPOSAL: THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATION MATERIAL FROM THE SITE WITHOUT NOTIFYING THE CITY OF SUNSET VALLEY AT 512-891-9103 AT LEAST 48 HOURS PRIOR TO THE REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL, INCLUDING ASPHALT AND CONCRETE.
5. CONTRACTOR TO CONTACT ENGINEER FOR ANY FIELD CHANGES. ANY REVISIONS OR CHANGES TO THE APPROVED CONSTRUCTION PLANS WILL REQUIRE ADDITIONAL APPROVAL BY THE CITY OF SUNSET VALLEY IN WRITING.
6. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER.
7. BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL BE LOCATED TO PROVIDE MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT WHILE PROVIDING CONTINUOUS TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL DEVICES DURING CONSTRUCTION.
8. TEMPORARY EROSION CONTROLS TO BE INSPECTED AND MAINTAINED BY THE CONTRACTOR WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS AND AFTER ALL RAINFALL EVENTS AS NEEDED.
9. ANY WORK INDICATED IN THE CONTRACT DRAWINGS OR CONTRACT DOCUMENT WITHOUT A BID ITEM SHALL BE COMPLETED BY THE CONTRACTOR AS WORK INCIDENTAL TO THE CONTRACT.
10. CONTRACTOR SHALL CALL THE ONE CALL CENTER (811) AND THE CITY OF SUNSET VALLEY FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET RIGHT-OF-WAY.
11. THE CONTRACTOR SHALL LOCATE ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES PRIOR TO STARTING ANY ONSITE UTILITY WORK.
12. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS, THE ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS ONCE A FINAL INSPECTION HAS BEEN MADE BY THE CITY, A LETTER OF ACCEPTANCE WILL BE GIVEN.
13. THE CONTRACTOR SHALL PROVIDE CONTINUOUS ACCESS FOR EMERGENCY SERVICE VEHICLES 24 HOURS PER DAY. THE CONTRACTOR SHALL CONTACT THE LOCAL EMS COORDINATOR PRIOR TO CONSTRUCTION TO ENSURE AN UNDERSTANDING OF ACCESS REQUIREMENTS TO STREETS AND HOUSES.
14. CONTRACTOR SHALL PROVIDE UNINTERRUPTED UTILITY SERVICES TO ALL RESIDENTS DURING THE PROJECT. HE IS RESPONSIBLE TO COORDINATE ANY DISCONNECTIONS OR RELOCATIONS WHETHER INTENTIONAL OR ACCIDENTAL WITH THE APPROPRIATE UTILITY PROVIDER AND KEEP EMERGENCY UTILITY CONTACTS READILY AVAILABLE 24 HOURS PER DAY.
15. ALL DAMAGE CAUSED DIRECTLY OR IN DIRECTLY TO THE STREET SURFACE OR SUBSURFACE OUTSIDE OF THE LIMITS OF PAVEMENT CUT AREA SHALL BE REGARDED AS PART OF THE STREET CUT REPAIR. THIS INCLUDES ANY SCRAPES, GOUGES, CUTS, CRACKING, DEPRESSIONS, AND/OR ANY OTHER DAMAGE CAUSED BY THE CONTRACTOR DURING THE EXECUTION OF THE WORK. THESE AREAS WILL BE INCLUDED IN THE TOTAL AREA OF REPAIR. ALL REPAIRS SHALL BE AT THE CONTRACTORS EXPENSE AND SHALL MEET ALL CITY TESTING REQUIREMENTS.
16. ALL EXISTING SIDEWALKS, CURB AND GUTTER, DRIVEWAYS, LANDSCAPING, OR DRAINAGE FACILITIES TO REMAIN THAT ARE DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND RESTORED WITH MATERIALS EQUAL TO OR BETTER THAN THE ORIGINAL AND SHALL BE AT THE CONTRACTOR'S EXPENSE.
17. CONTRACTOR WILL MINIMIZE USE OF STREET PARKING BY CONTRACTOR EMPLOYEES IN THE VICINITY OF THE CONSTRUCTION AREA.
18. ALL SITE WORK MUST COMPLY WITH ENVIRONMENTAL REQUIREMENTS.
19. ALL VEGETATION OUTSIDE THE LIMIT OF CONSTRUCTION IN APPROVED PROJECT PLANS IS TO REMAIN.
20. ALL MATERIAL, EQUIPMENT, STAGING, AND TEMPORARY SPOILS ARE TO BE WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE APPROVED PLANS.

## **SURVEY NOTES**

HORIZONTAL DATUM: UNITED STATES/STATE PLANE 1983, TEXAS CENTRAL 4203, U.S. SURVEY FEET  
UTILIZING TRIMBLE R10 GNSS RECEIVERS AND TRIMBLE BUSINESS CENTER SOFTWARE.

VERTICAL DATUM: NAVD 88, GEOID 12B, U.S. SURVEY FEET

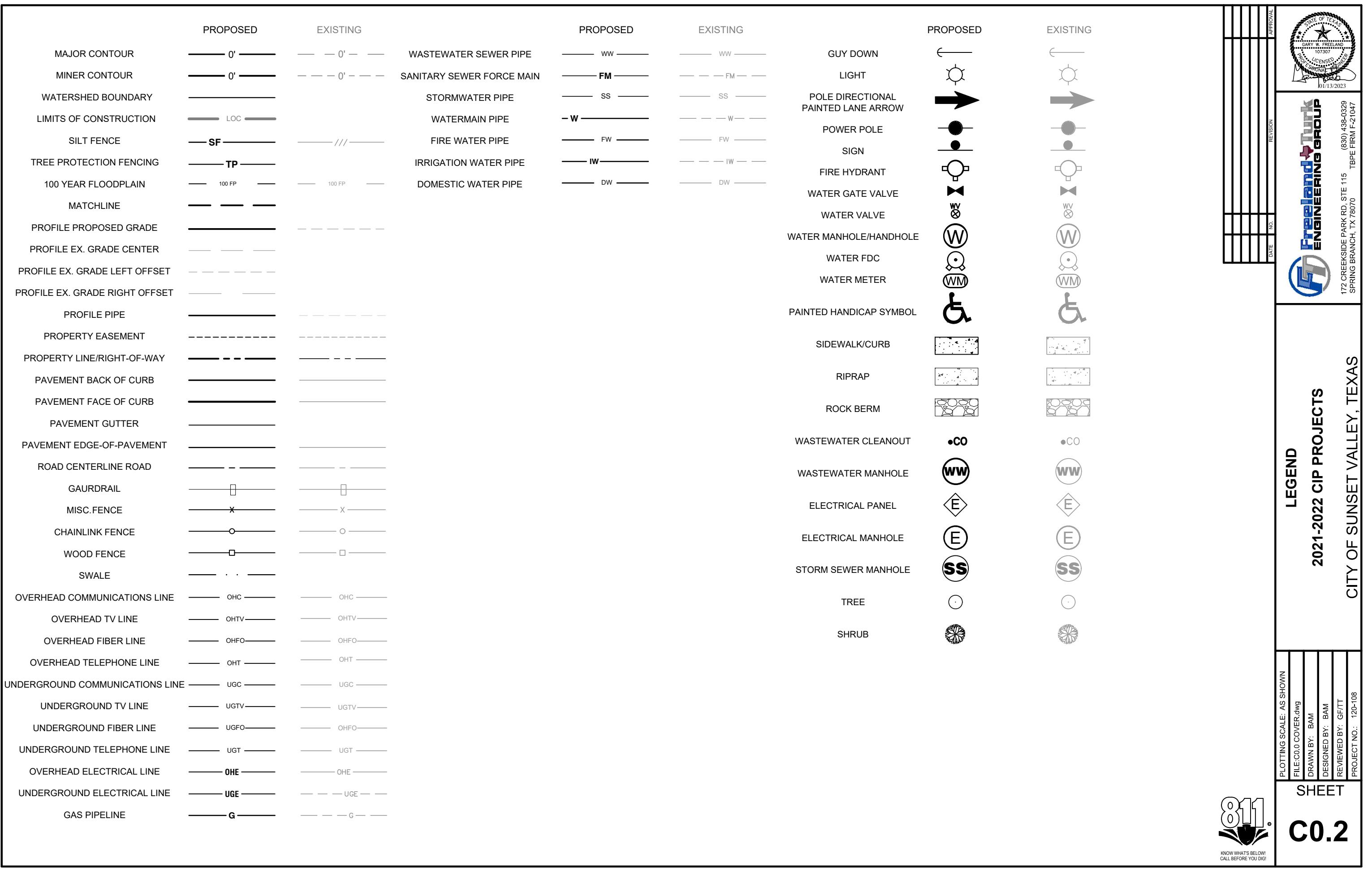
DATA COLLECTION WAS DERIVED FROM GPS OBSERVATIONS

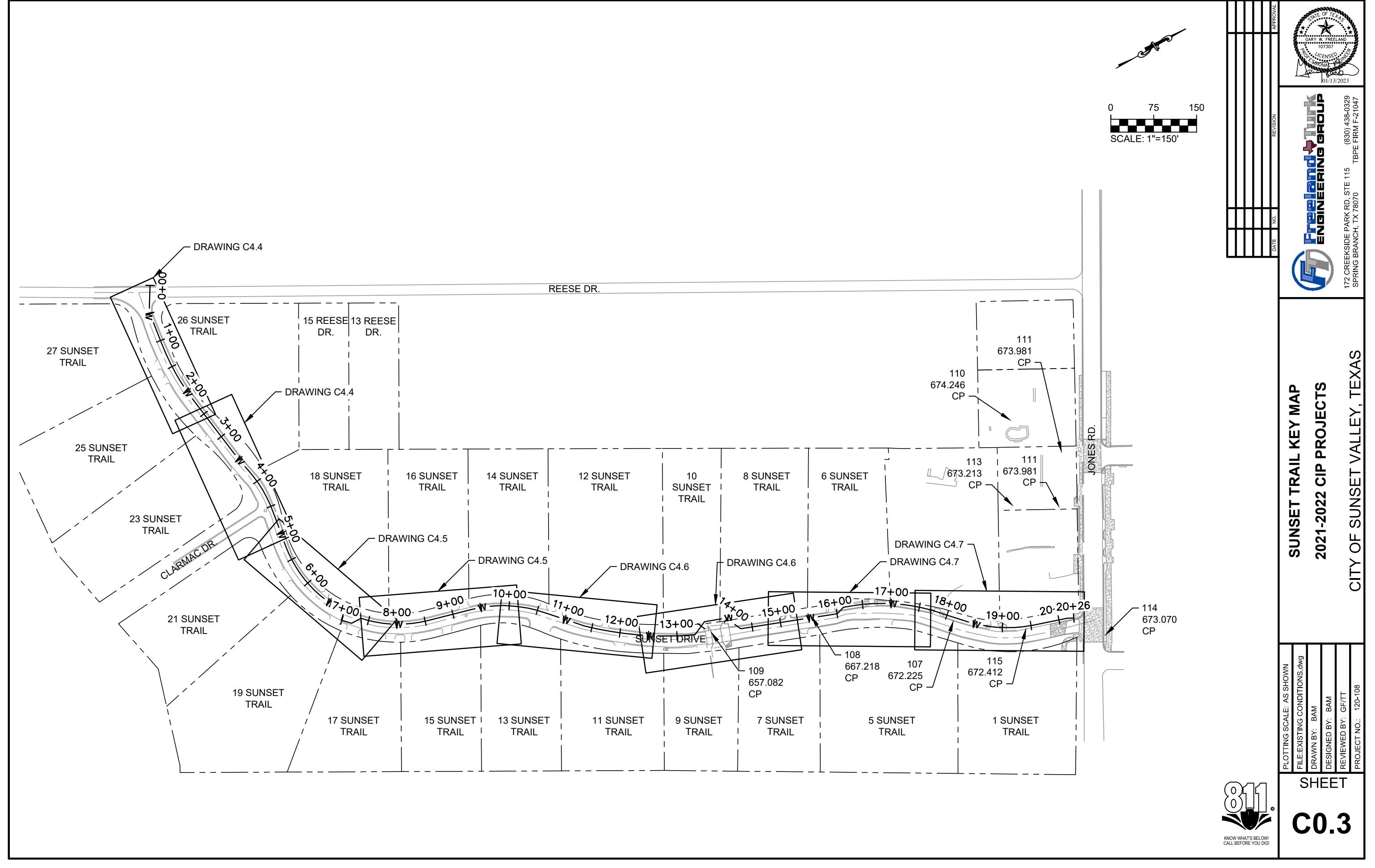
#### CONTROL POINT LOCATIONS:

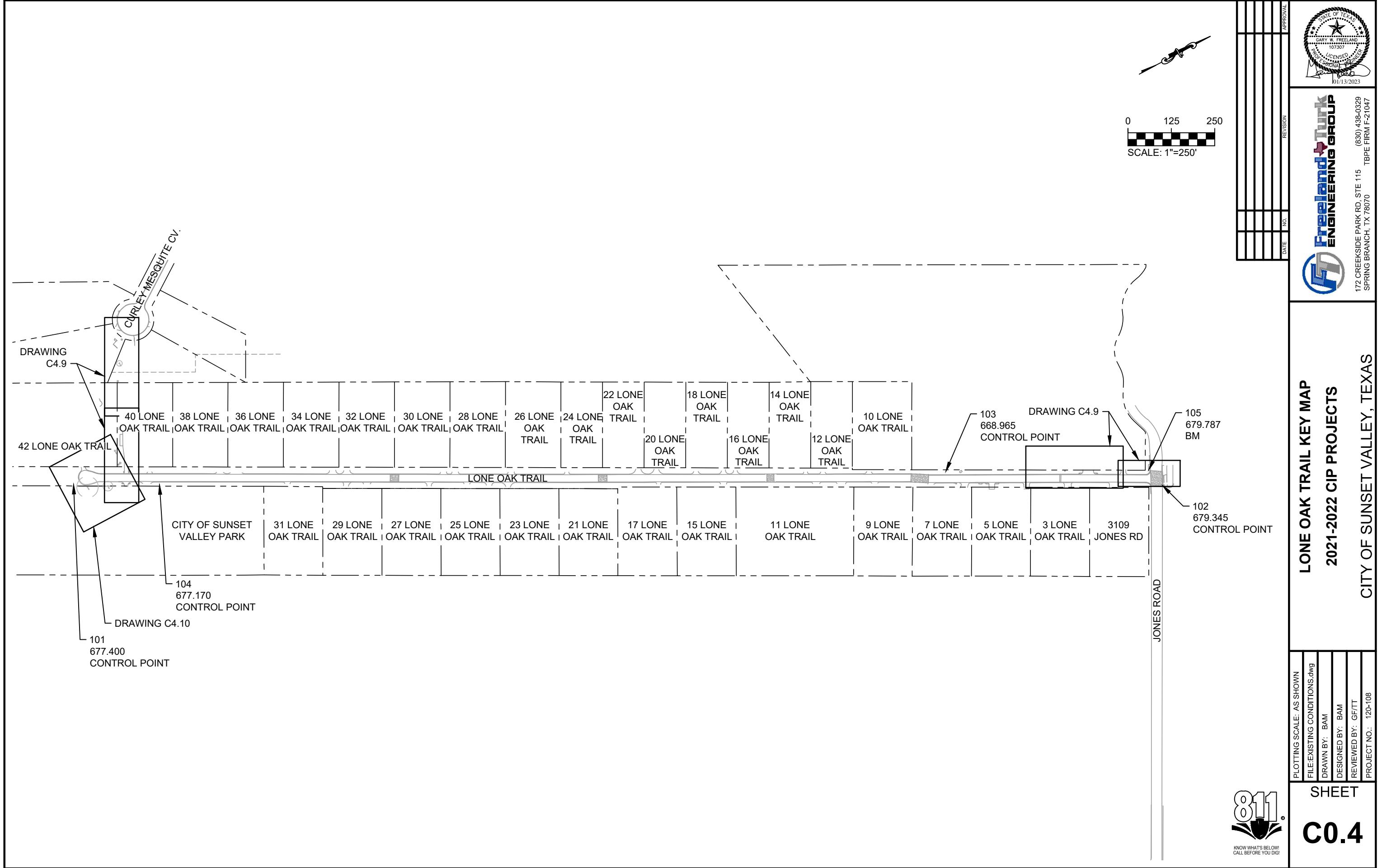
CONTROL POINTS				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
101	CONTROL POINT SIR58	677.40	10053050.7200	3092158.3570
102	CONTROL POINT SIR58	679.34	10055828.6300	3093623.5940
103	CONTROL POINT SIR58	668.96	10055284.8900	3093308.2370
104	CONTROL POINT SIR58	677.17	10053268.8100	3092275.4940
105	BM	679.79	10055803.4590	3093578.9300
106	BM	674.66	10055582.0320	3094147.9180
107	CP	672.22	10054796.5430	3095004.5700
108	CP	667.22	10054581.7990	3094880.1700
109	CP	657.08	10054414.1340	3094821.5340
110	CP	674.25	10055050.4900	3094741.8440
111	CP	673.98	10055103.0100	3094833.1430
112	CP	673.20	10055053.9400	3094915.6340
113	CP	673.21	10054983.4100	3094875.2910
114	CP	673.07	10055019.7400	3095151.5650
115	CP	672.41	10054902.0010	3095076.5070

## TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEM'S PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATION. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



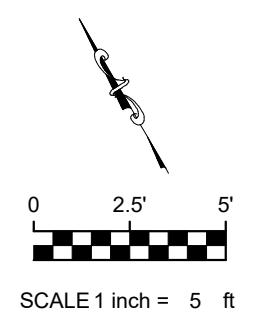
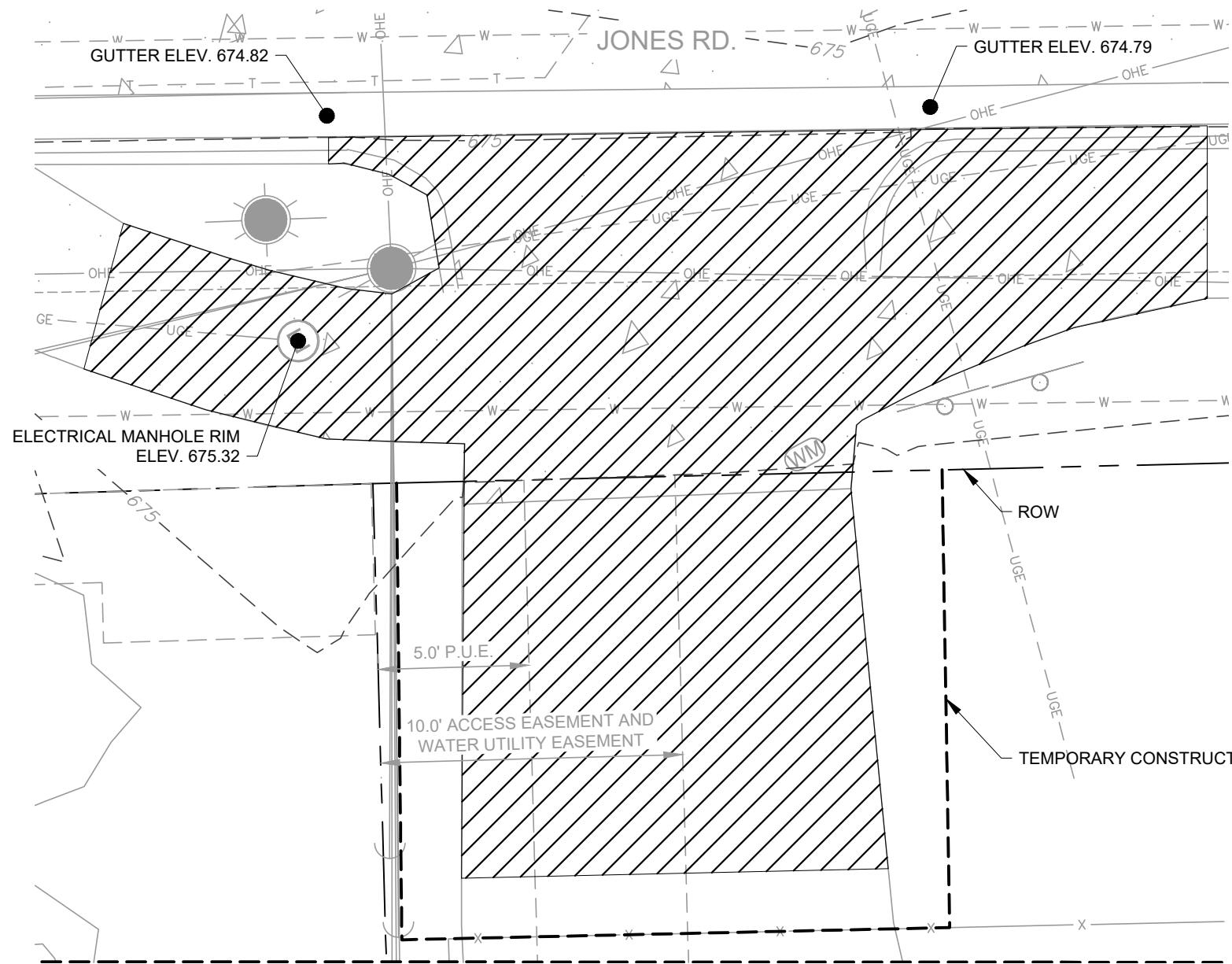








APPROVAL		
DATE	NO.	REVISION
01/13/2023		
FREELAND & TURK GROUP		
172 GREEKSIDE PARK RD, STE 115 (830) 438-0329 SPRING BRANCH, TX 77070 TBPE FIRM F-21047		



**NOTES:**

1. CONTRACTOR TO COORDINATE DRIVEWAY CLOSURE WITH LAND OWNER.

**LEGEND:**

AREA TO BE REMOVED -



**SHEET**  
**C1.1**

STATE OF TEXAS  
 GARY W. FREELAND  
 107307  
 LICENSED PROFESSIONAL ENGINEER  
 01/13/2023

(830) 438-0329  
 SPRING BRANCH, TX 77070  
 TBPE FIRM F-21047

CITY OF SUNSET VALLEY, TEXAS

PLOTTING SCALE: AS SHOWN  
 FILE: C4.0 SITE PLAN.dwg  
 DRAWN BY: BAM  
 DESIGNED BY: BAM  
 REVIEWED BY: GF/TT  
 PROJECT NO.: 120-108



REMOVE RAILING, CUT AT BASE OF  
 POSTS, CONTRACTOR TO REINSTALL  
 REMOVE SIDEWALK TO THIS JOINT



REMOVE STONE WITHIN LIMITS OF INLET  $\pm 12'$

DEMO SIDEWALK TO THIS JOINT  
 DEMO CURB TO THIS JOINT

NOTES:

1. CONTRACTOR TO COORDINATE DRIVEWAY CLOSURE WITH LAND OWNER.

LEGEND:

AREA TO BE REMOVED -



24" STORM PIPE TO BE  
 REMOVED AS NEEDED FOR NEW  
 WORK. PIPE THAT DOES NOT  
 INTERFERE WITH NEW WORK  
 MAY BE ABANDONED IN PLACE

GUTTER  
 673.82

BOC  
 674.29

TRENCH GRATE TO  
 BE REMOVED  
 GUTTER  
 673.85  
 BOC  
 674.31

0 2.5' 5'  
 SCALE 1 inch = 5 ft

ROW

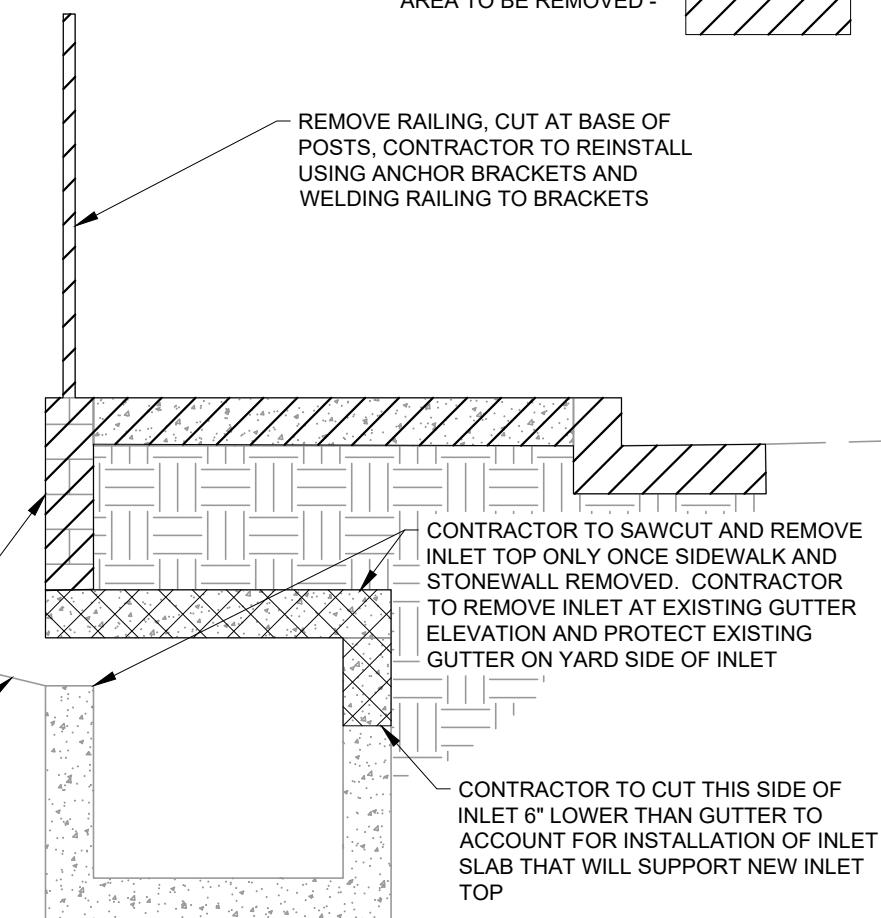
REMOVE STONE WALL,  
 ONLY INLET TO REMAIN

PROTECT EXISTING GUTTER

SIDEWALK  
 674.04  
 SIDEWALK  
 674.21

STORM SEWER MANHOLE  
 RIM=674.23'

REMOVE STONE WALL, ONLY  
 INLET TO REMAIN



SECTION VIEW  
 SCALE: NTS



**Freeland & Turk**  
 ENGINEERING GROUP

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 SPRING BRANCH, TX 78070 TBPE FIRM F-21047

811  
 SHEET  
**C1.3**



**JONES ROAD ENLARGED  
 DEMOLITION PLAN EAST DRIVEWAY  
 2021-2022 CIP PROJECTS**

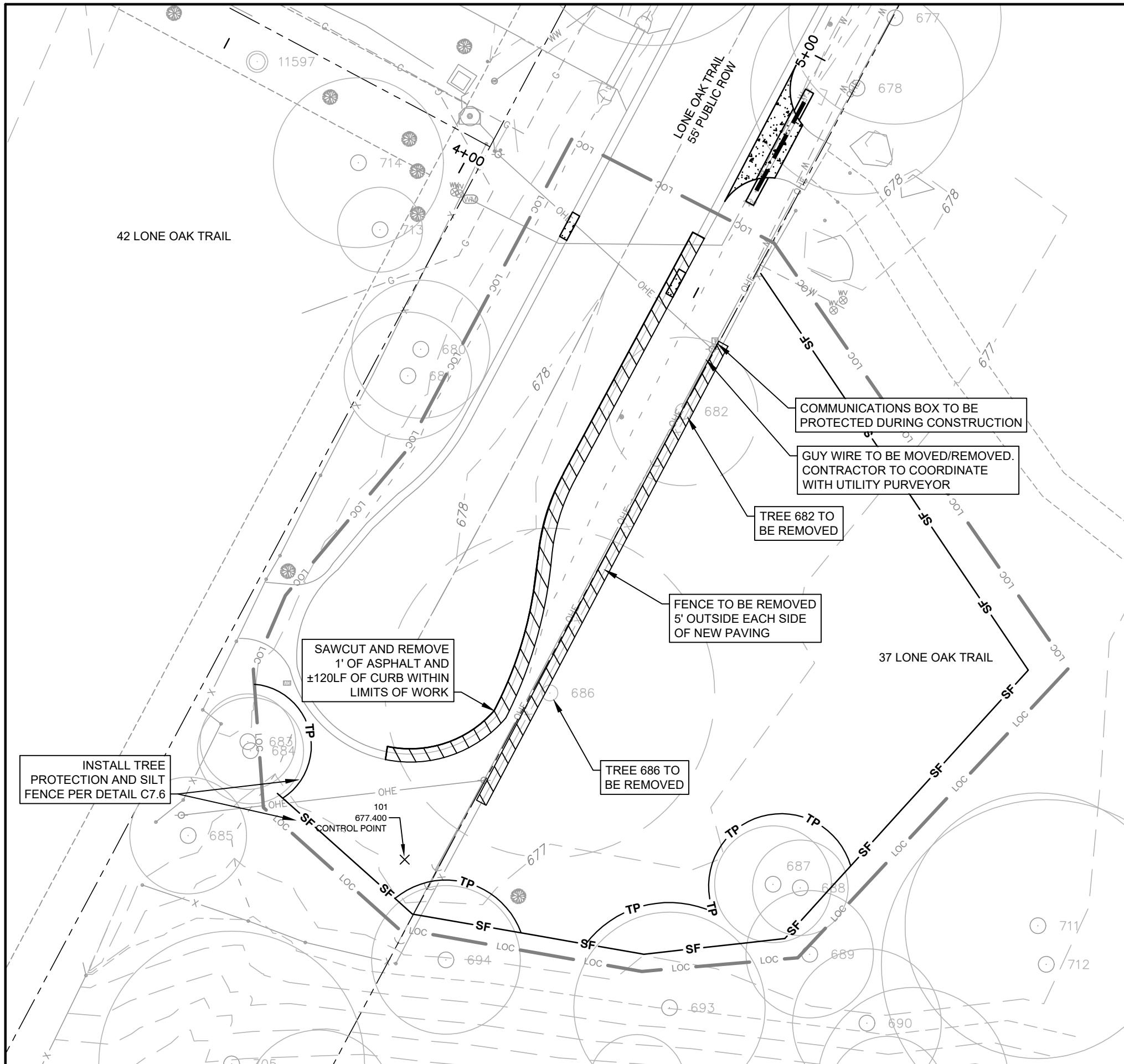
CITY OF SUNSET VALLEY, TEXAS

APPROVAL  
 DATE: NO. REVISION

PLOTTING SCALE: AS SHOWN  
 FILE: C4.0 SITE PLAN.dwg  
 DRAWN BY: BAM  
 DESIGNED BY: BAM  
 REVIEWED BY: GFTT  
 PROJECT NO: 120-108

Date: Jan 12, 2023, 3:02am User ID: torya  
File: Z:\eng-prd\120 city of sunset valley\108 - taslk order 10 - sunset trail and lone oak trail improvements\CAD\14.0 SITE PLAN.dwg

Date: Jan 12, 2023, 3:02am User ID: tbrfya File: Z:\eng-pra\120\city of sunset\valley\

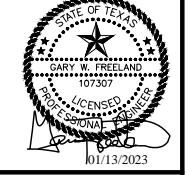


TREE TABLE	
TAG NO.	DESCRIPTION
470	26' CHINESE ELM (11-9-9-6-6")
471	12' UNKNOWN TREE
472	31' LIVE OAK
671	10' ARIZONA CYPRESS
672	22' LIVE OAK
673	16' LIVE OAK
674	18' CEDAR ELM (12-12")
675	14' LIVE OAK
676	23' LIVE OAK (16-14")
677	20' HACKBERRY
678	20' HICKBERRY
679	24" MESQUITE
680	13' CEDAR ELM
681	12' CEDAR ELM
682	14" MESQUITE
683	9' CEDAR ELM
684	10' CEDAR ELM
685	11' LIVE OAK
686	31" MESQUITE (21-20")
687	11' CEDAR ELM

TREE TABLE	
TAG NO.	DESCRIPTION
688	9' CEDAR ELM
689	12' PECAN
690	14' CEDAR ELM
691	18' CEDAR ELM
692	11' PECAN
693	16' CEDAR ELM (15-6')
694	14' HACKBERRY
695	9' CEDAR ELM
696	12' CEDAR ELM
697	12' CEDAR ELM
698	17' CEDAR ELM
699	13' CEDAR ELM
700	13' CEDAR ELM
701	16' CEDAR ELM (12-7')
702	9' CEDAR ELM
703	13' CEDAR ELM
704	14' CEDAR ELM
705	25' CEDAR ELM (17-16')
706	20' CEDAR ELM (14-12')
707	12' CEDAR ELM

TREE TABLE	
TAG NO.	DESCRIPTION
708	11" CEDAR ELM
709	11" CEDAR ELM
710	13" CEDAR ELM (9-8")
711	25" PECAN (17-16")
712	31" LIVE OAK
713	8" LIVE OAK
714	16" LIVE OAK
715	12" PECAN
716	17" RED OAK
717	8" LIVE OAK
718	7" HACKBERRY
719	17" TREE (8-7-6-4)
720	11" CEDAR ELM
721	11" CEDAR
722	12" CEDAR
723	12" CEDAR
724	9" CEDAR
725	8" CEDAR
726	12" LIVE OAK
727	8" RED OAK

TREE TABLE	
TAG NO.	DESCRIPTION
728	12" CEDAR (10-4")
729	16" CEDAR (13-6")
730	13" CEDAR
731	12" CEDAR
732	17" PECAN
733	22" LIVE OAK
734	16" LIVE OAK
735	12" MESQUITE
736	10" MESQUITE



**Freeland Turk**  
ENGINEERING GROUP

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SPRING BRANCH, TX 78070 TBPE FIRM F-21047

1

# UNE OAK I RAIL I URNAROUND EXISTING CONDITIONS AND DEMO PLAN 2021-2022 CIP PROJECTS

WOE SINSET VALLEY TEXAS

## SUNSET VALLEY, TEXAS

KNOW WHAT'S BELOW!  
CALL BEFORE YOU DIG!

P F D D R P

**SHEET**

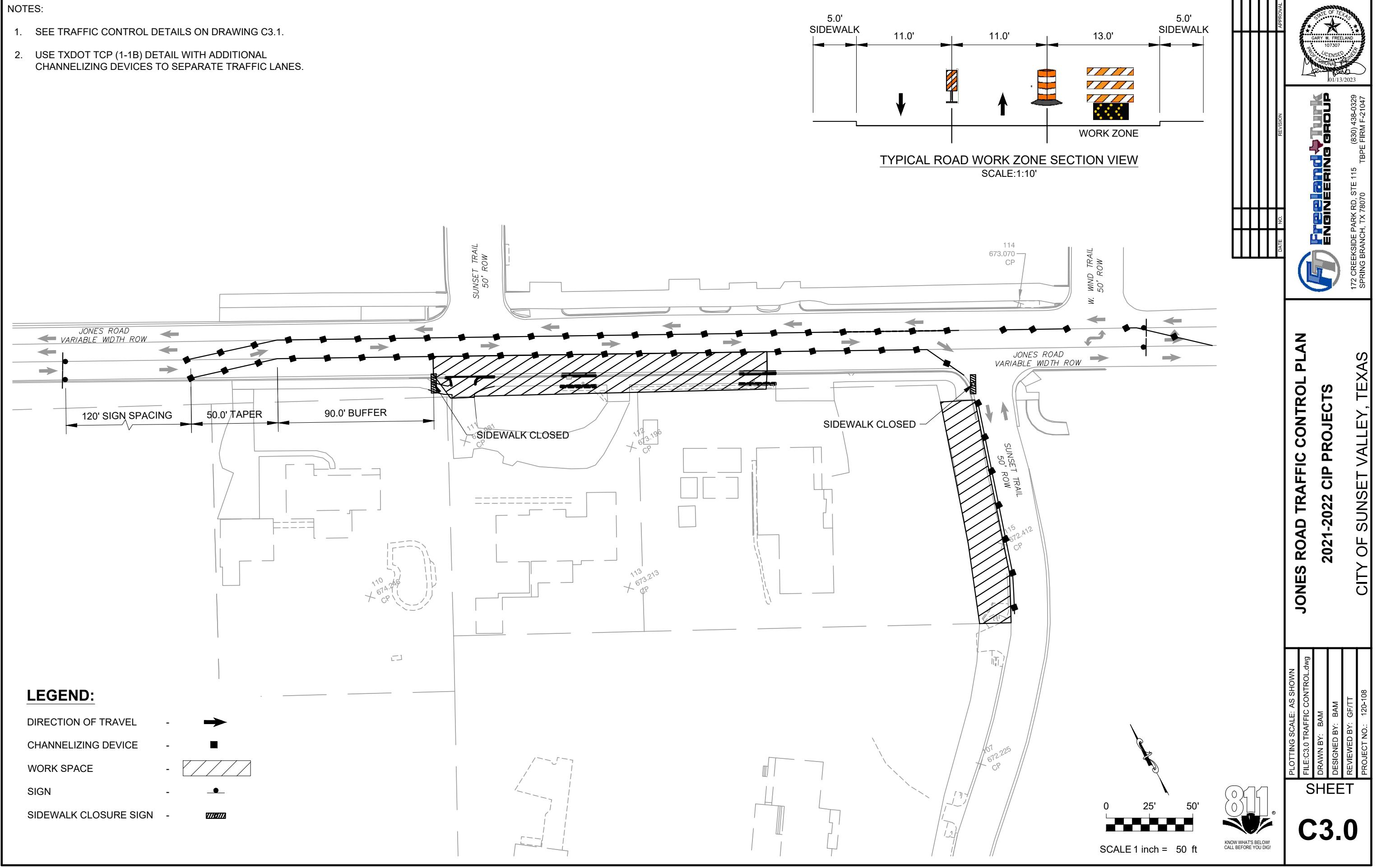
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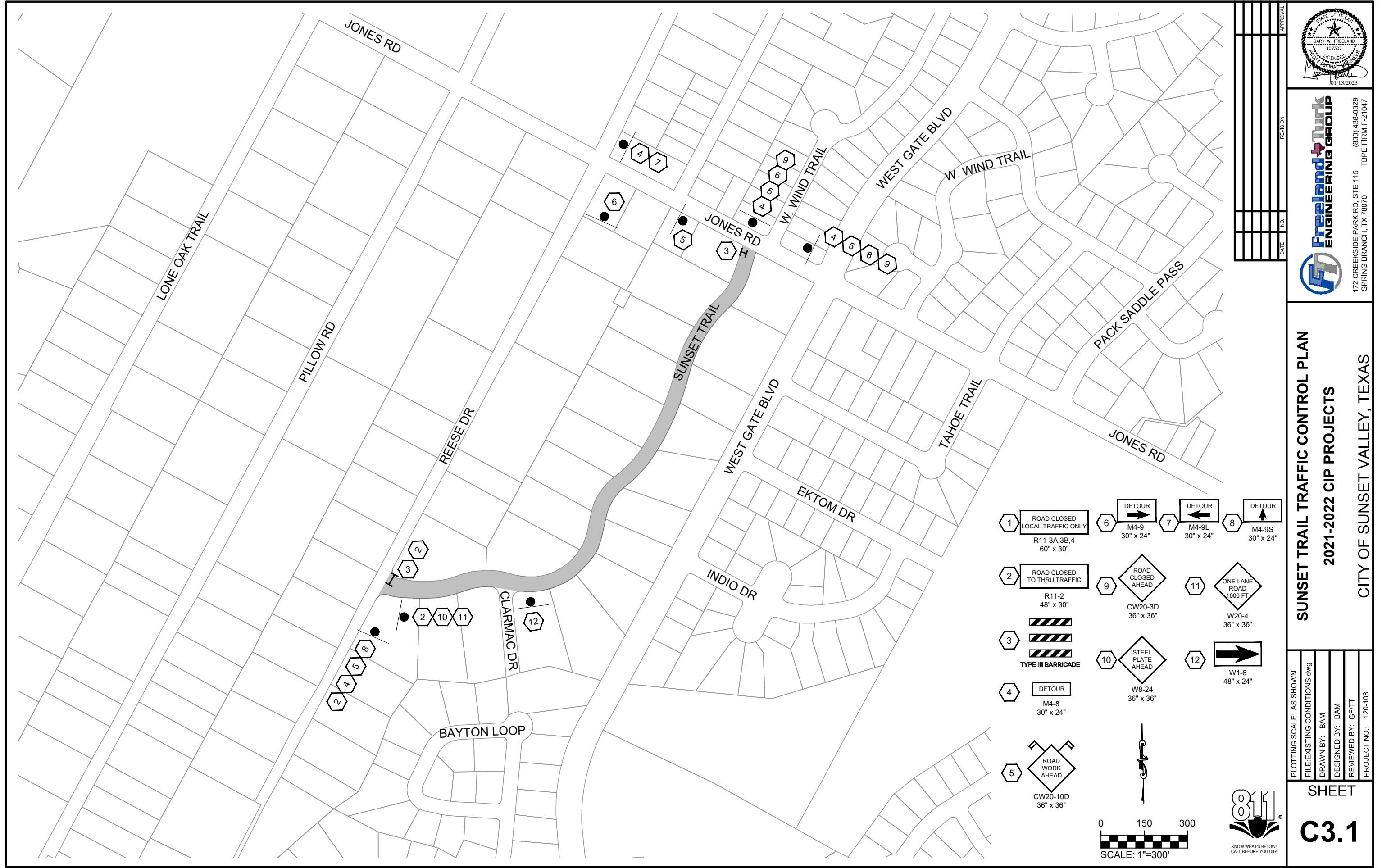
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## C1.4

Page 1 of 1

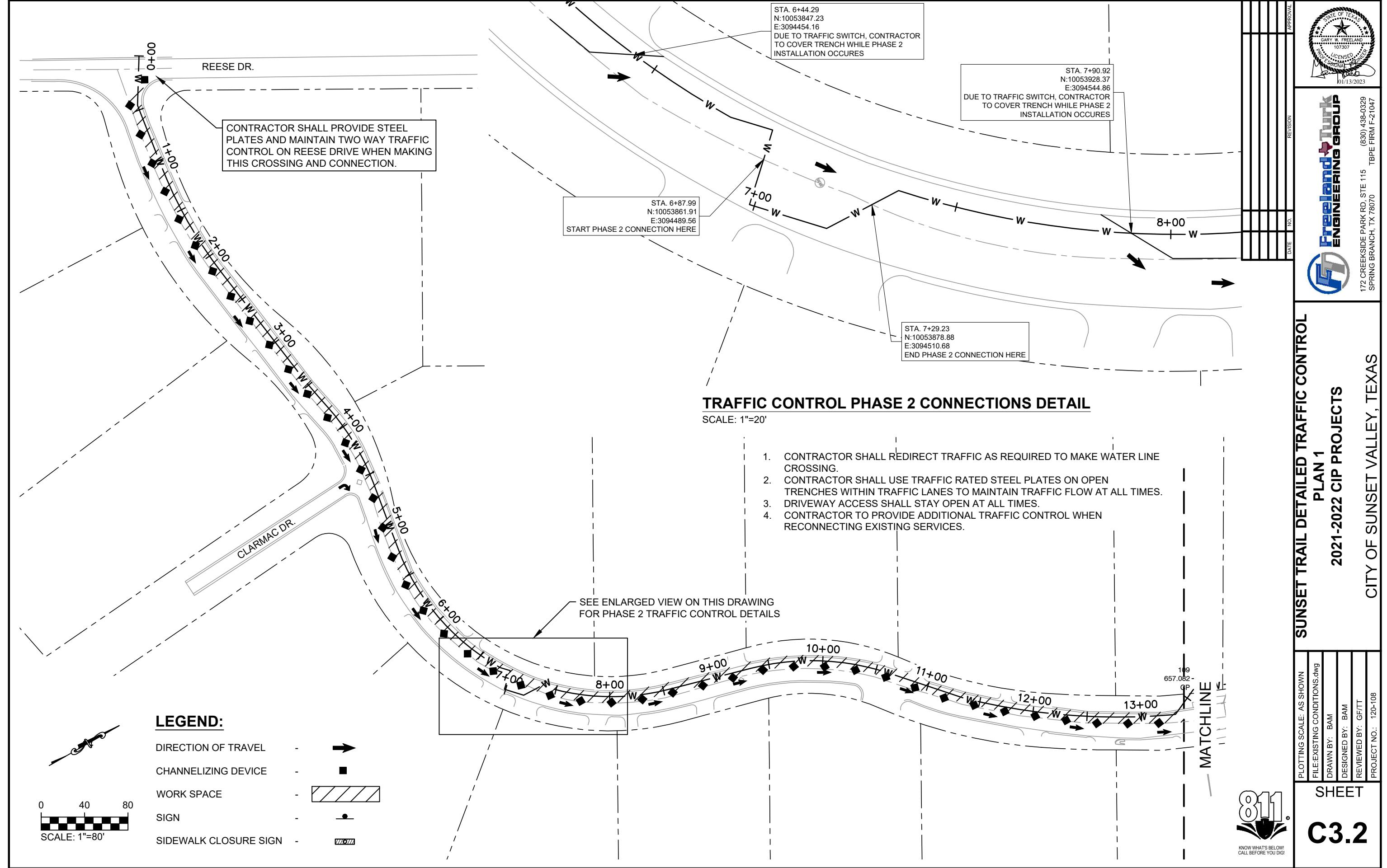
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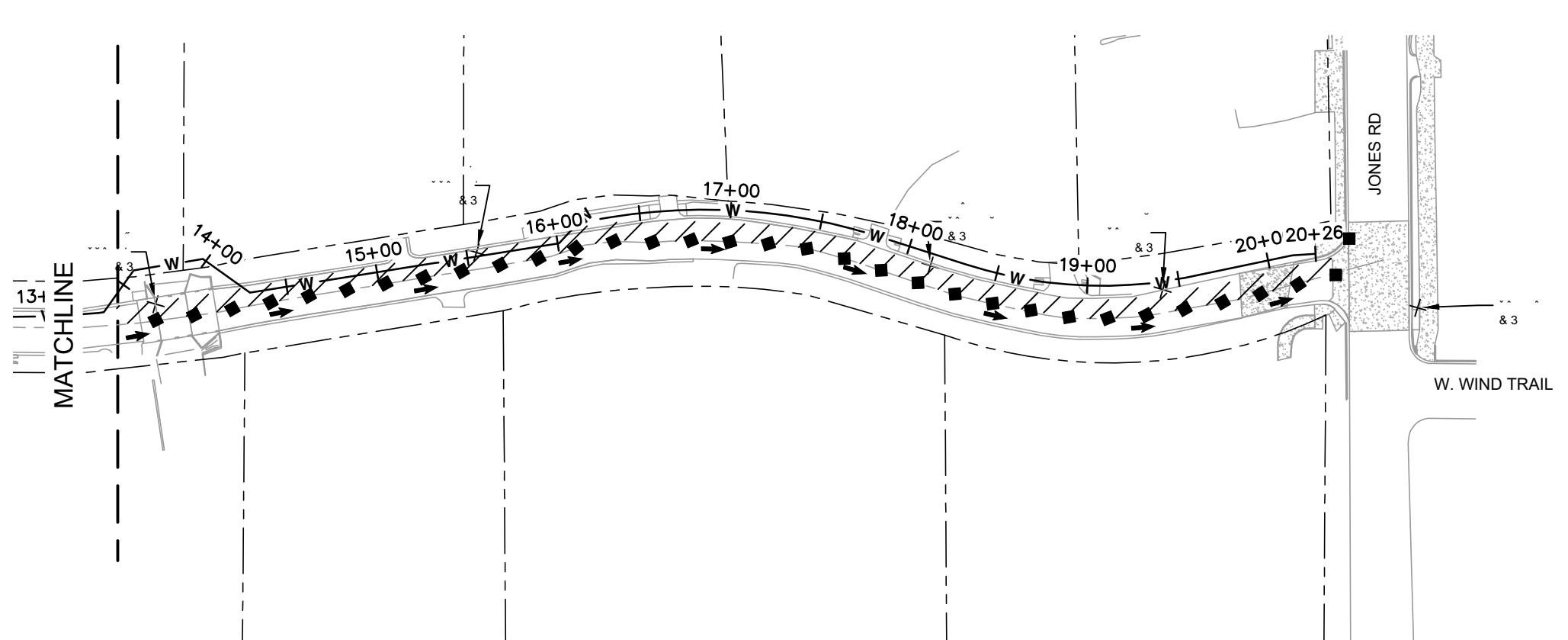




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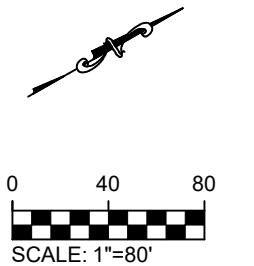
*asset trail and lone oak trail improvements \\_CAD \EXISTING CONDITIONS.dwg*





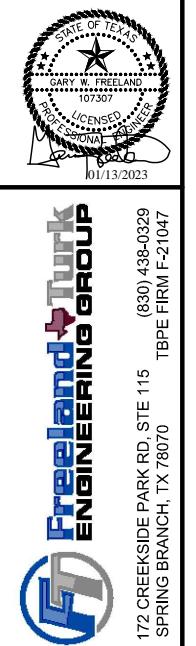
#### LEGEND:

DIRECTION OF TRAVEL	-	→
CHANNELIZING DEVICE	-	■
WORK SPACE	-	▨▨▨
SIGN	-	●
SIDEWALK CLOSURE SIGN	-	■■■



**C3.3**

**SUNSET TRAIL DETAILED TRAFFIC CONTROL**  
**PLAN 2**  
**2021-2022 CIP PROJECTS**  
**CITY OF SUNSET VALLEY, TEXAS**



APPROVAL  
DATE: NO. REVISION  
01/13/2023

172 CREEKSIDE PARK RD, STE 115 (830) 438-0329  
SPRING BRANCH, TX 78070 TBPE FIRM F-21047

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GO TEXAN

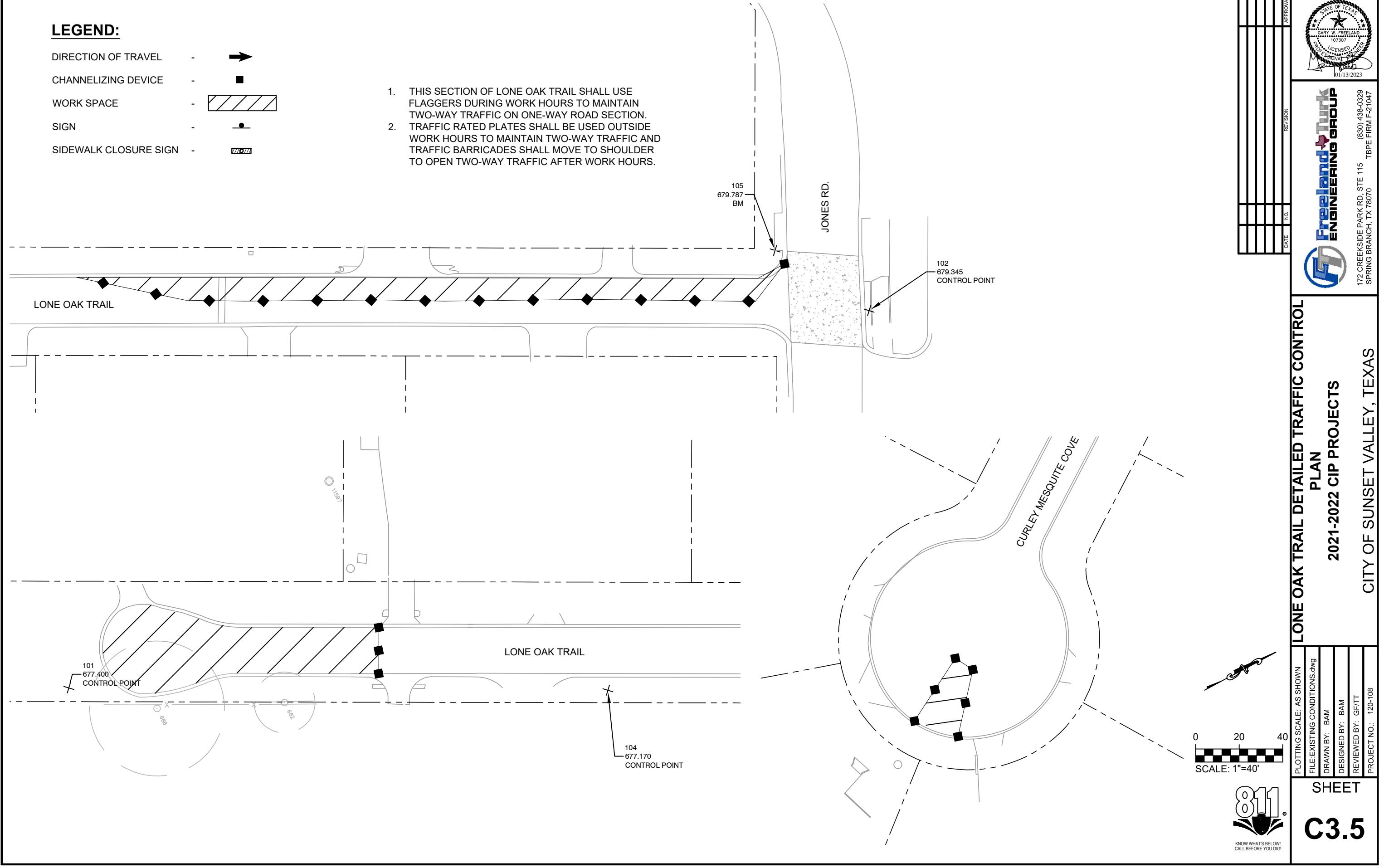
GO GREEN!



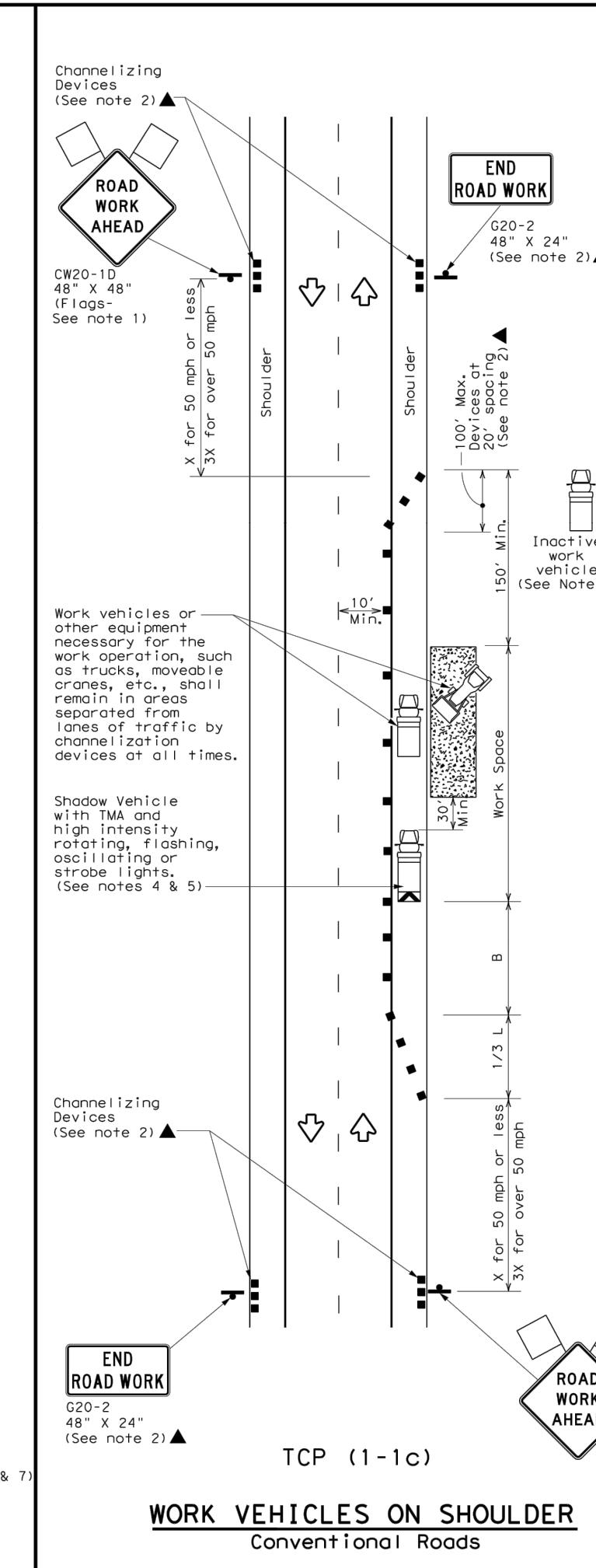
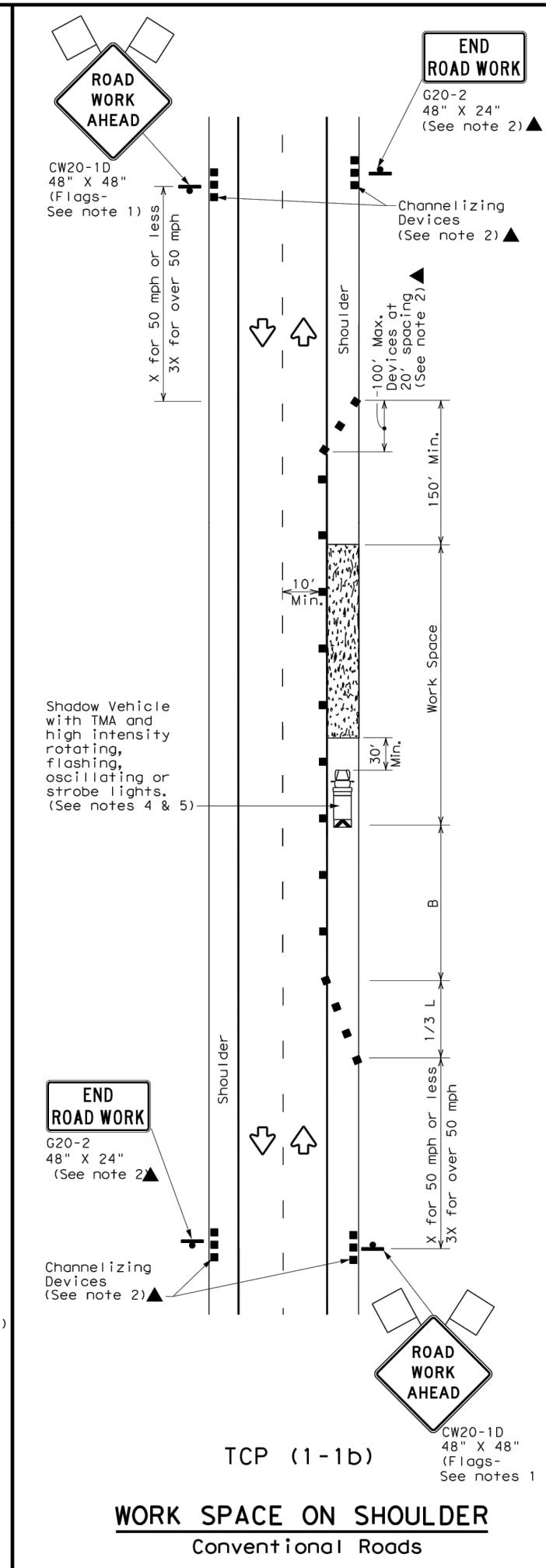
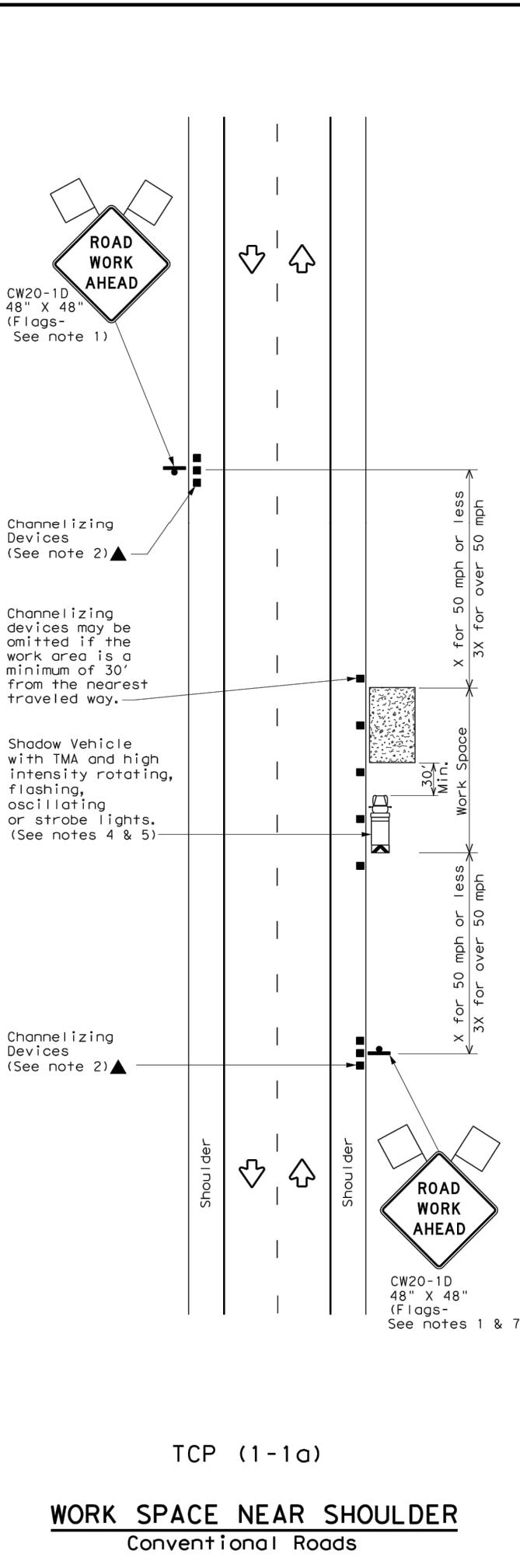
**LEGEND:**

DIRECTION OF TRAVEL	-
CHANNELIZING DEVICE	-
WORK SPACE	-
SIGN	-
SIDEWALK CLOSURE SIGN	-

1. THIS SECTION OF LONE OAK TRAIL SHALL USE FLAGGERS DURING WORK HOURS TO MAINTAIN TWO-WAY TRAFFIC ON ONE-WAY ROAD SECTION.
2. TRAFFIC RATED PLATES SHALL BE USED OUTSIDE WORK HOURS TO MAINTAIN TWO-WAY TRAFFIC AND TRAFFIC BARRICADES SHALL MOVE TO SHOULDER TO OPEN TWO-WAY TRAFFIC AFTER WORK HOURS.



**DISCLAIMER:** The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for incorrect results or damages resulting from its use.



**LEGEND**

Type 3 Barricade	Channelizing Devices
Heavy Work Vehicle	Truck Mounted Attenuator (TMA)
Trailer Mounted Flashing Arrow Board	Portable Changeable Message Sign (PCMS)
Sign	Traffic Flow
Flag	Flagger

**MINIMUM DESIRABLE TAPER LENGTHS**

Posted Speed *	Formula	Minimum Desirable Taper Lengths			Suggested Maximum Spacing of Channelizing Devices	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	
		10' Offset	11' Offset	12' Offset				
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35	$L = \frac{WS^2}{60}$	205'	225'	245'	35'	70'	160'	120'
40	$L = \frac{WS^2}{60}$	265'	295'	320'	40'	80'	240'	155'
45	$L = WS$	450'	495'	540'	45'	90'	320'	195'
50	$L = WS$	500'	550'	600'	50'	100'	400'	240'
55	$L = WS$	550'	605'	660'	55'	110'	500'	295'
60	$L = WS$	600'	660'	720'	60'	120'	600'	350'
65	$L = WS$	650'	715'	780'	65'	130'	700'	410'
70	$L = WS$	700'	770'	840'	70'	140'	800'	475'
75	$L = WS$	750'	825'	900'	75'	150'	900'	540'

\* Conventional Roads Only  
\*\* Taper lengths have been rounded off.  
L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

**TYPICAL USAGE**

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

**GENERAL NOTES**

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
- See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
- CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.



KNOW WHAT'S BELOW!  
CALL BEFORE YOU DIG!

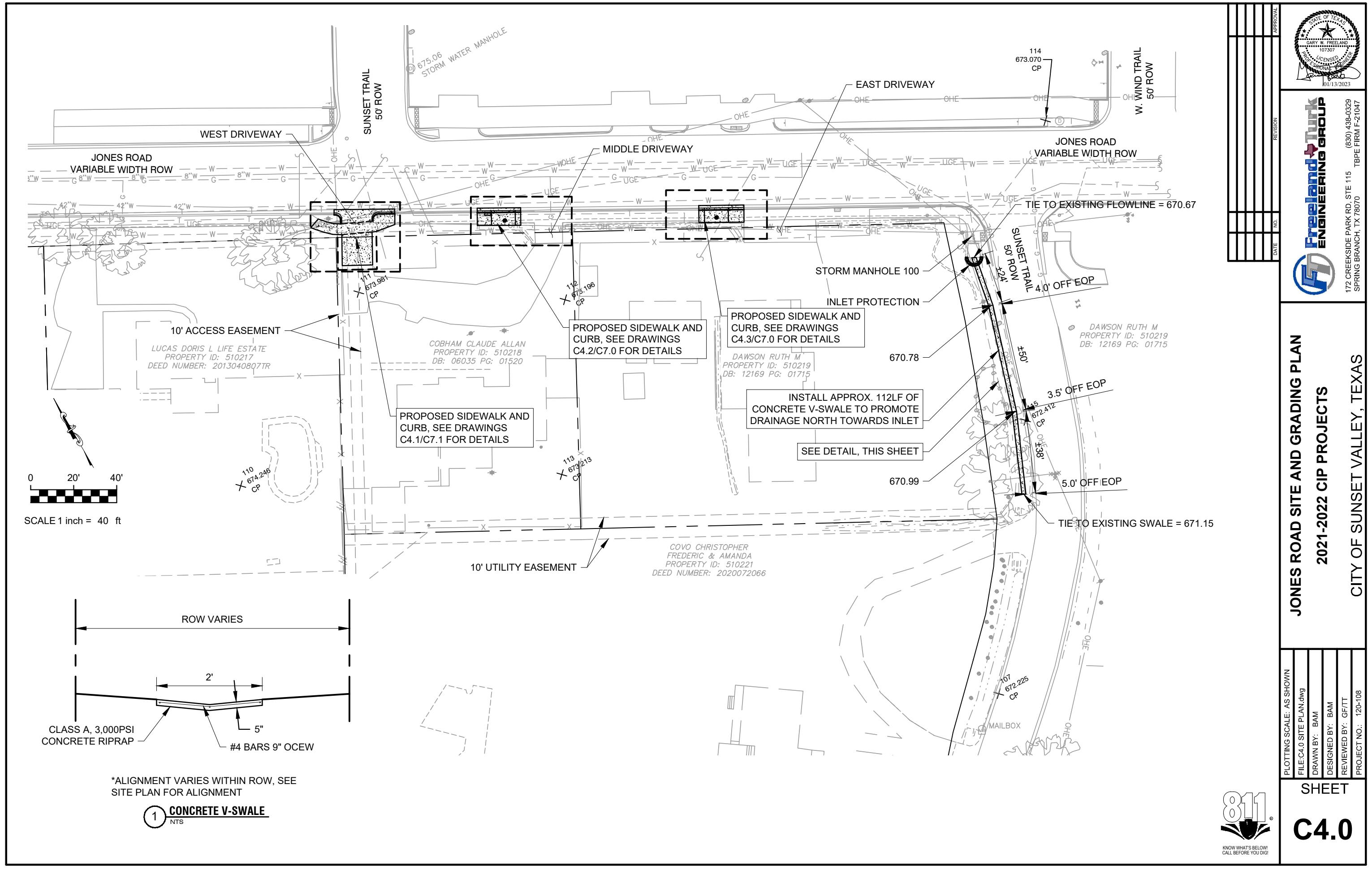
**C3.6**

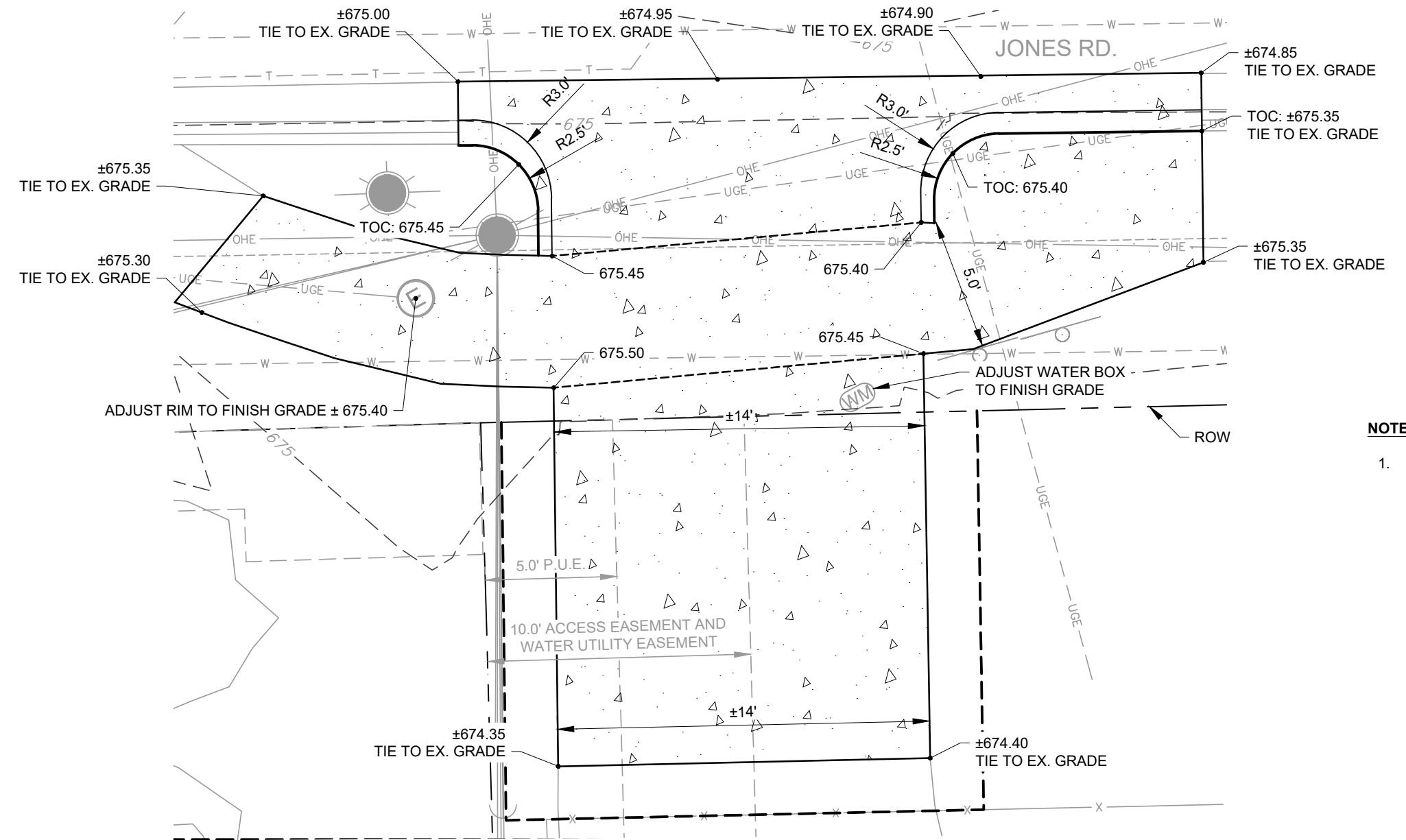
**Texas Department of Transportation** **Traffic Operations Division Standard**

## TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

**TCP (1-1) - 18**

FILE: tcp1-1-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS				
2-94 4-98				
8-95 2-12				
1-97 2-18				
	DIST	COUNTY		SHEET NO.





NOTES:

1. SEE DRAWING C7.1 FOR PAVING AND DRIVEWAY DETAILS.



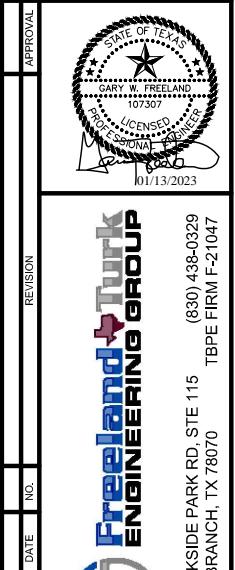
**C4.1**

**JONES ROAD ENLARGED SITE AND  
GRADING PLAN WEST DRIVEWAY  
2021-2022 CIP PROJECTS**

CITY OF SUNSET VALLEY, TEXAS

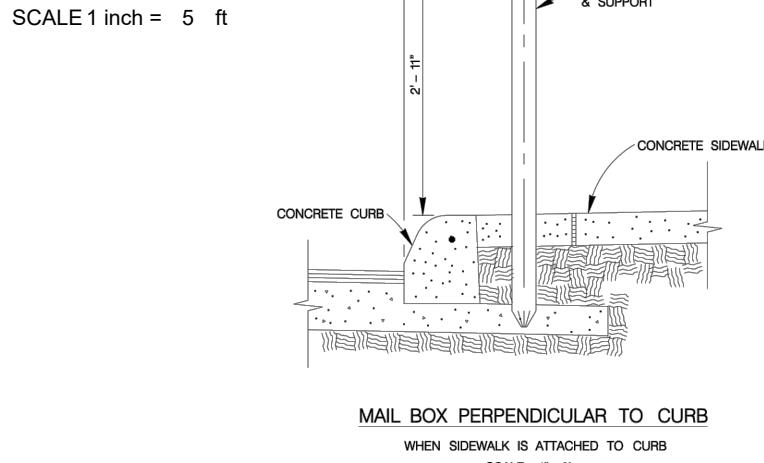
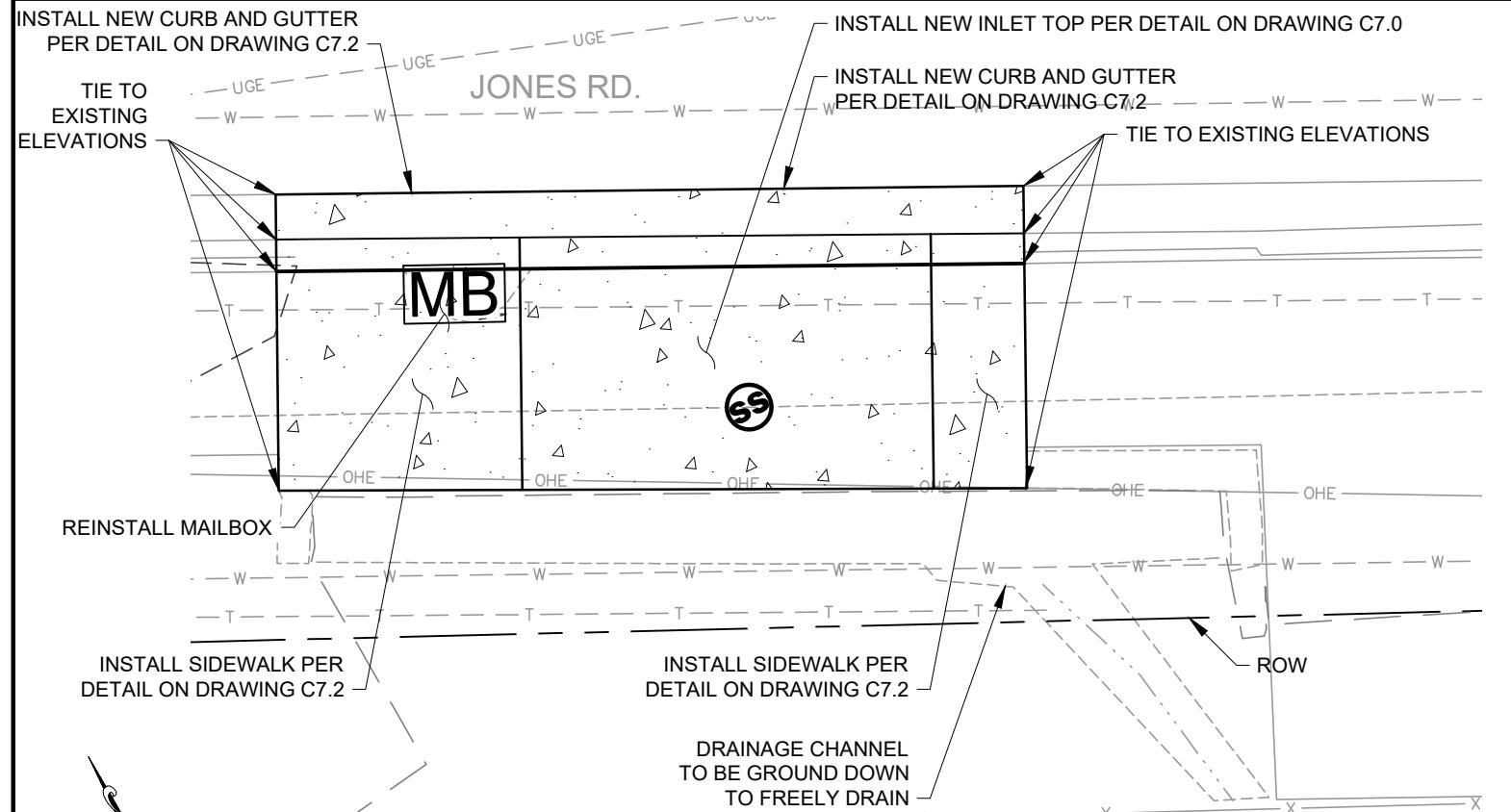


172 CREEKSIDE PARK RD, STE 115 (830) 438-0329  
SPRING BRANCH, TX 78070 TBPE FIRM F-21047



APPROVAL  
DATE: NO. REVISION

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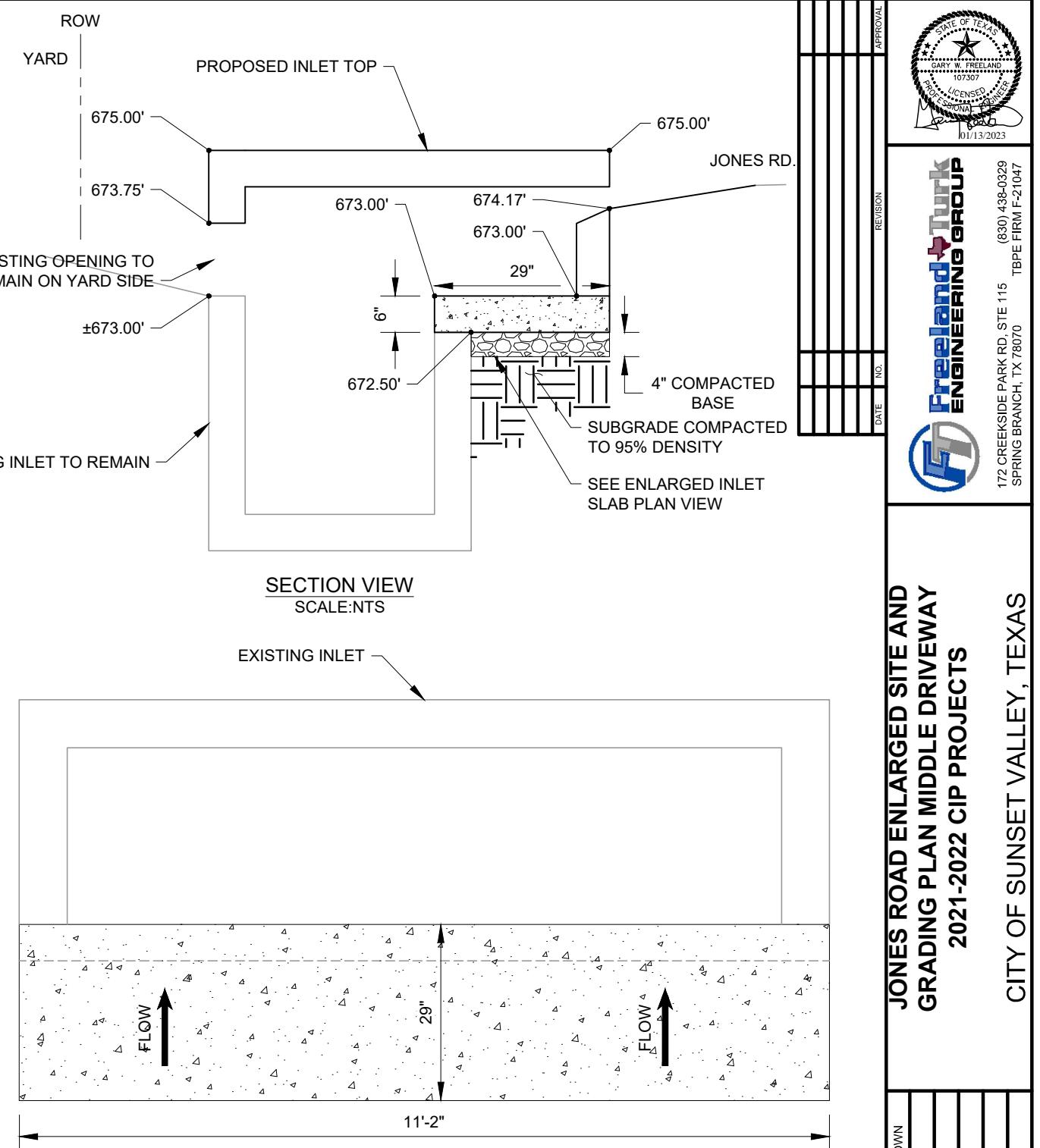
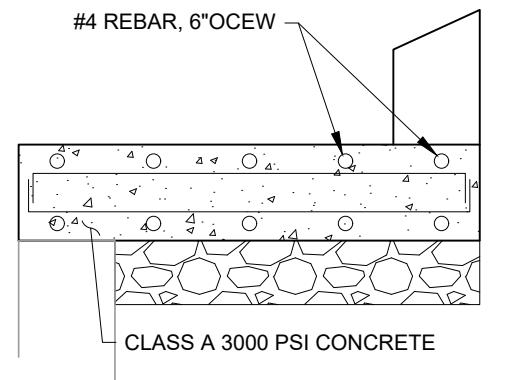


MAILBOX RELOCATION  
SCALE:NTS

**NOTES:**

1. DOWEL PROPOSED INLET TOP TO EXISTING INLET BOX AND INLET SLAB EVERY 12".
2. DOWEL PROPOSED INLET SLAB INTO EXISTING INLET EVERY 12".
3. DIMENSIONS ARE APPROXIMATE BASED ON INFORMATION AVAILABLE. CONTRACTOR TO FIELD CONFIRM.
4. SEE DRAWING C7.1 FOR PAVING AND DRIVEWAY DETAILS.

ENLARGED INLET SLAB SECTION VIEW  
SCALE:NTS



ENLARGED PLAN VIEW  
SCALE:NTS



**SHEET**  
**C4.2**

PLOTTING SCALE: AS SHOWN  
 FILE: C4.0 SITE PLAN.dwg  
 DRAWN BY: BAM  
 DESIGNED BY: BAM  
 REVIEWED BY: GFTT  
 PROJECT NO.: 120-108

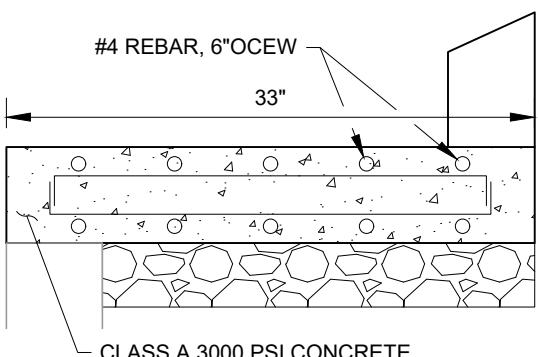
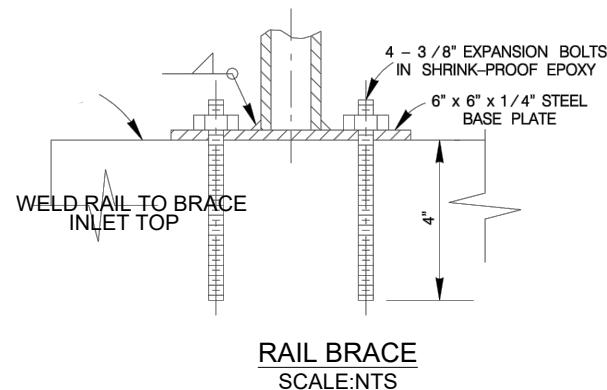
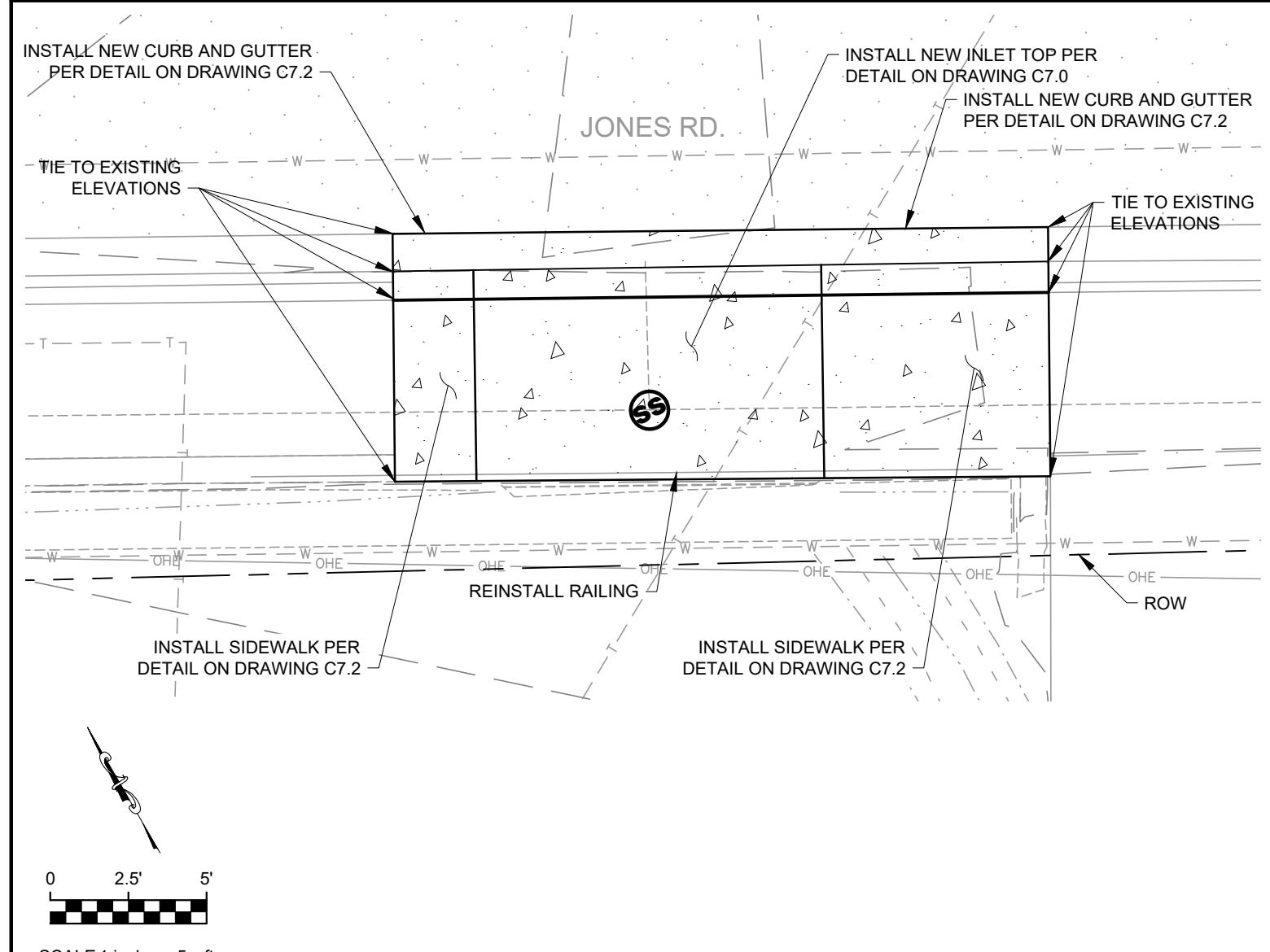
172 CREEKSIDE PARK RD, STE 115 (830) 438-0329  
 SPRING BRANCH, TX 78070 TBPE FIRM F-21047



172 CREEKSIDE PARK RD, STE 115 (830) 438-0329  
 SPRING BRANCH, TX 78070 TBPE FIRM F-21047

**JONES ROAD ENLARGED SITE AND  
GRADING PLAN MIDDLE DRIVEWAY  
2021-2022 CIP PROJECTS**

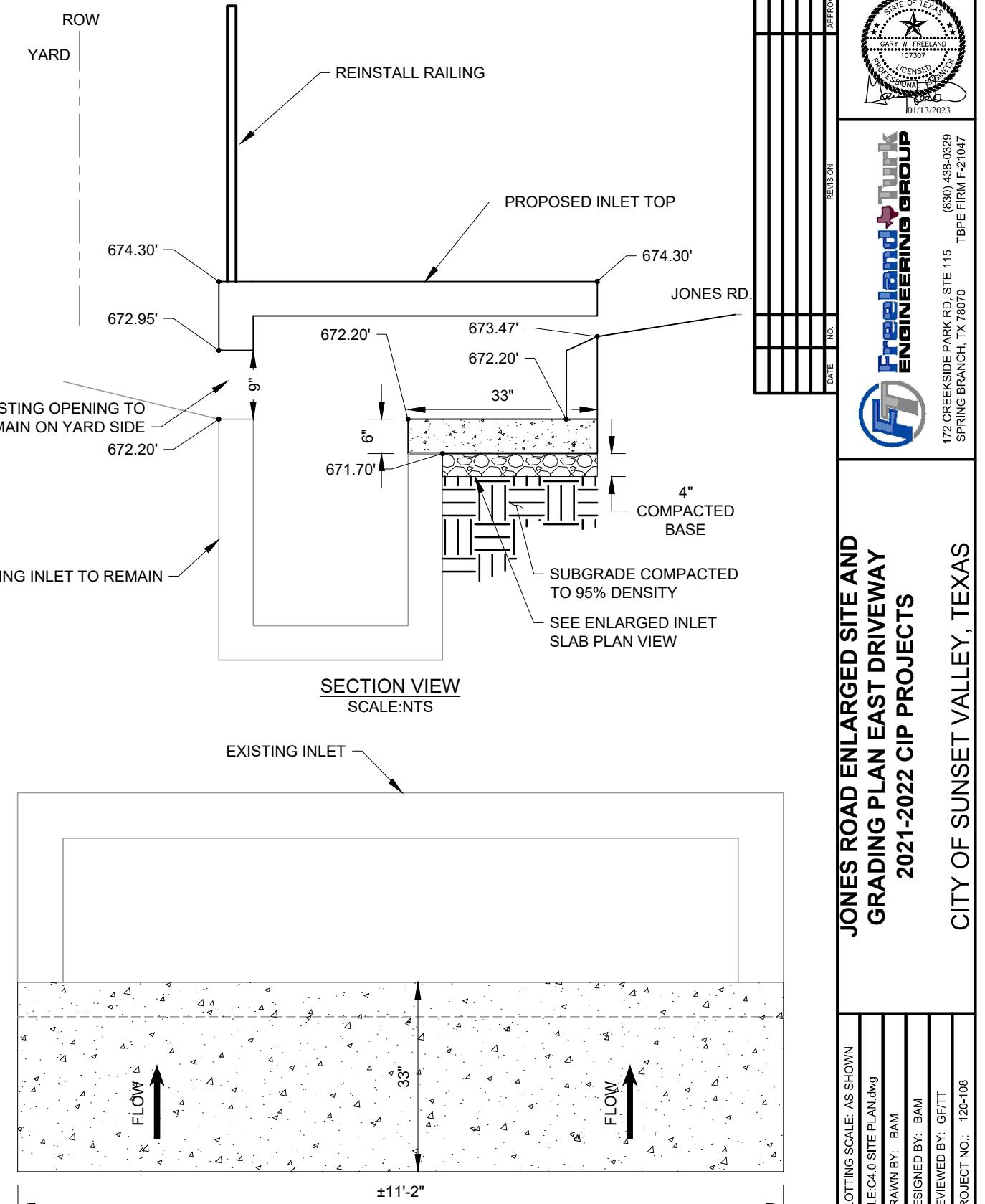
**CITY OF SUNSET VALLEY, TEXAS**



ENLARGED INLET SLAB SECTION VIEW  
SCALE:NTS

**NOTES:**

1. DOWEL PROPOSED INLET TOP TO EXISTING INLET BOX AND INLET SLAB EVERY 12".
2. DOWEL PROPOSED INLET SLAB INTO EXISTING INLET EVERY 12".
3. DIMENSIONS ARE APPROXIMATE BASED ON INFORMATION AVAILABLE. CONTRACTOR TO FIELD CONFIRM.



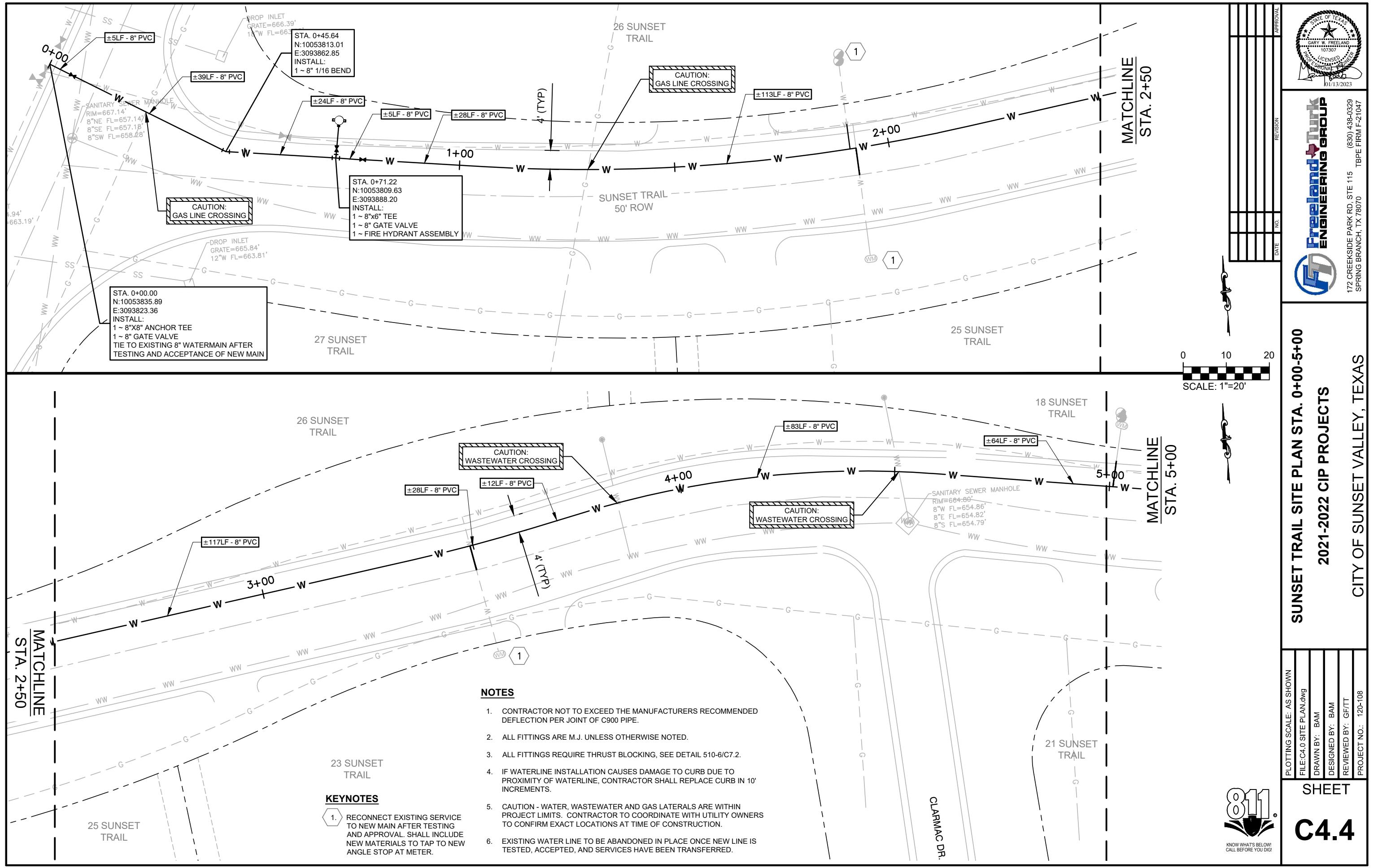
**JONES ROAD ENLARGED SITE AND  
GRADING PLAN EAST DRIVEWAY  
2021-2022 CIP PROJECTS**

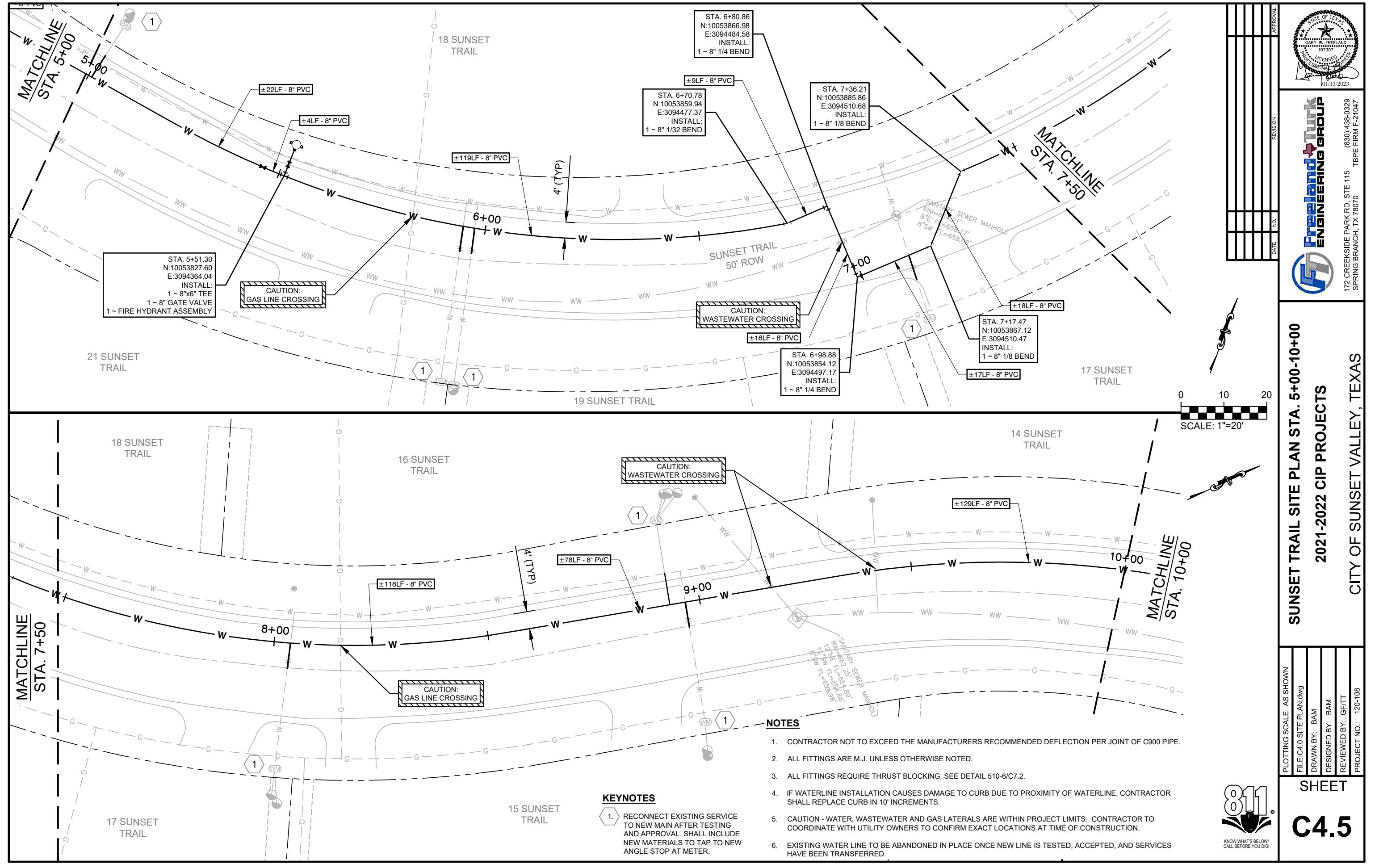
CITY OF SUNSET VALLEY, TEXAS

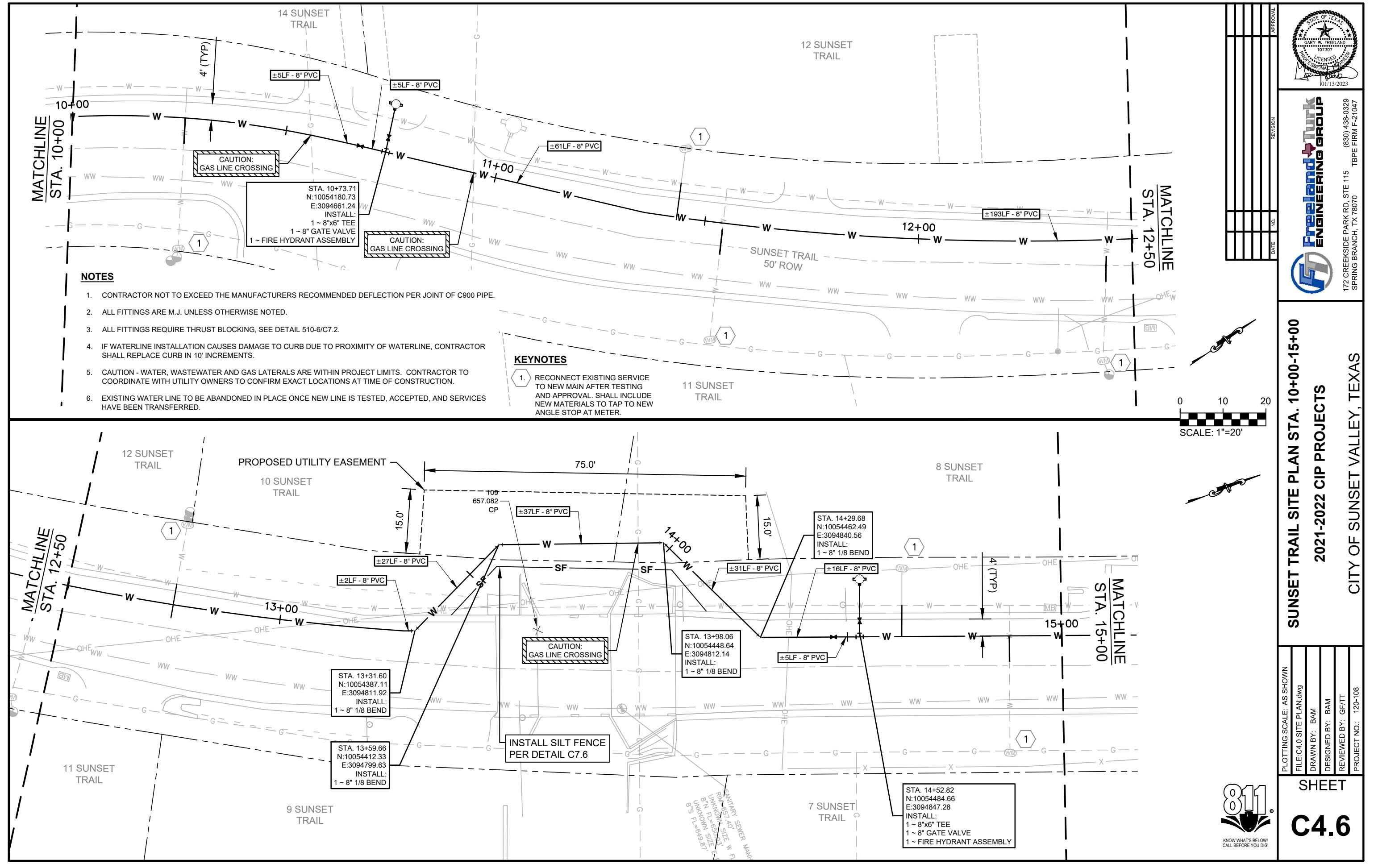


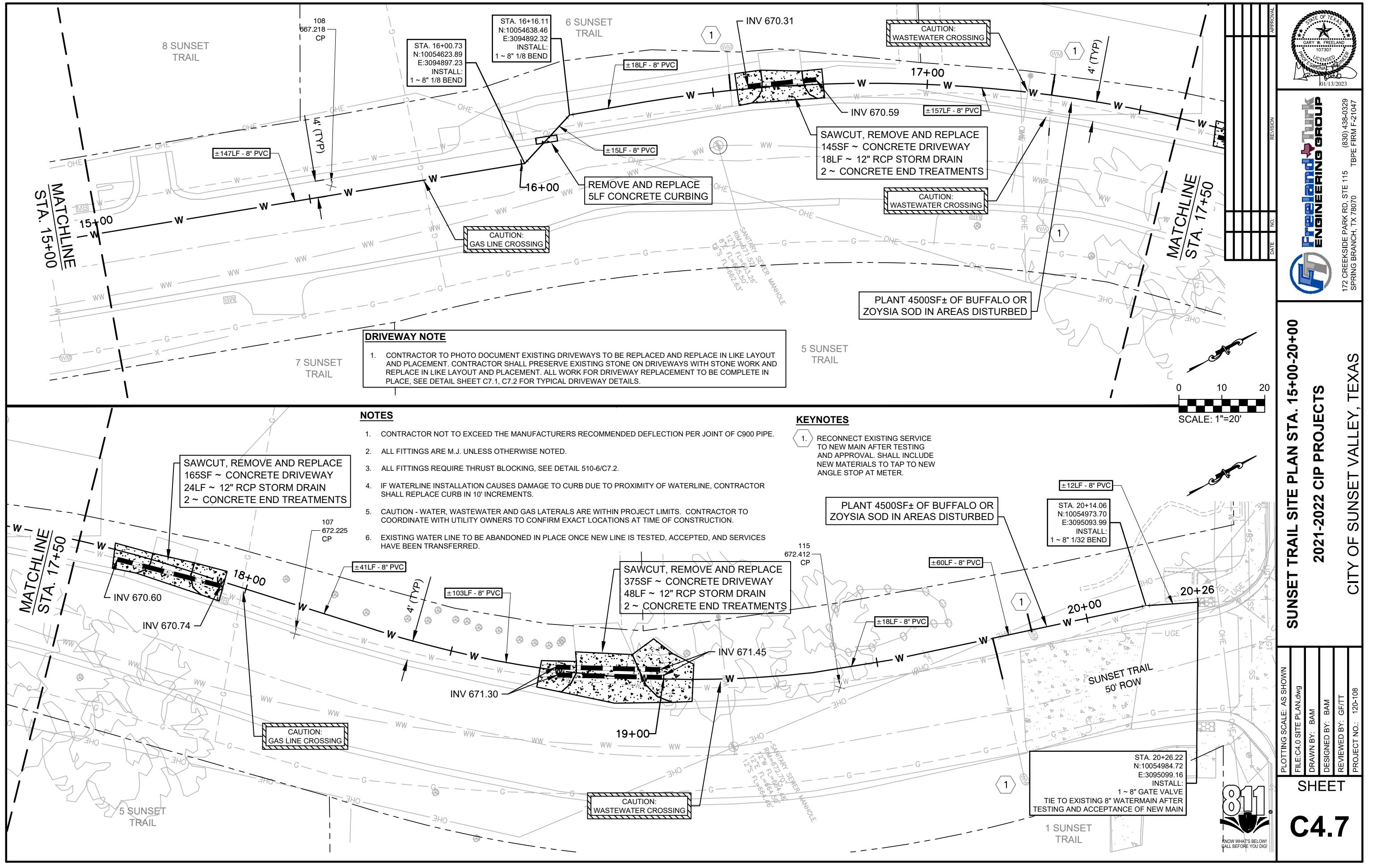
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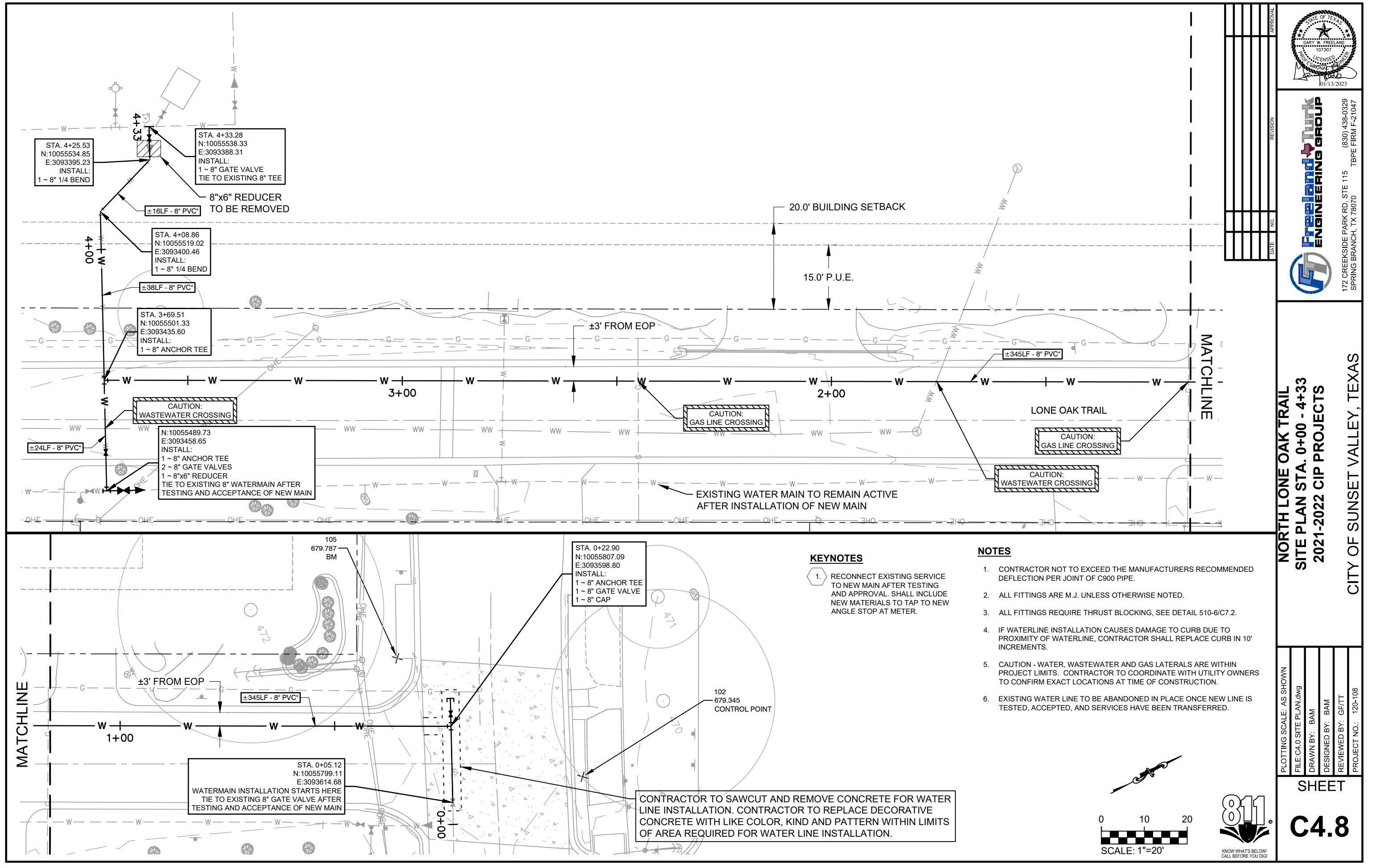
at trail and lone oak trail improvements | CDR\CDR SITE B\AN





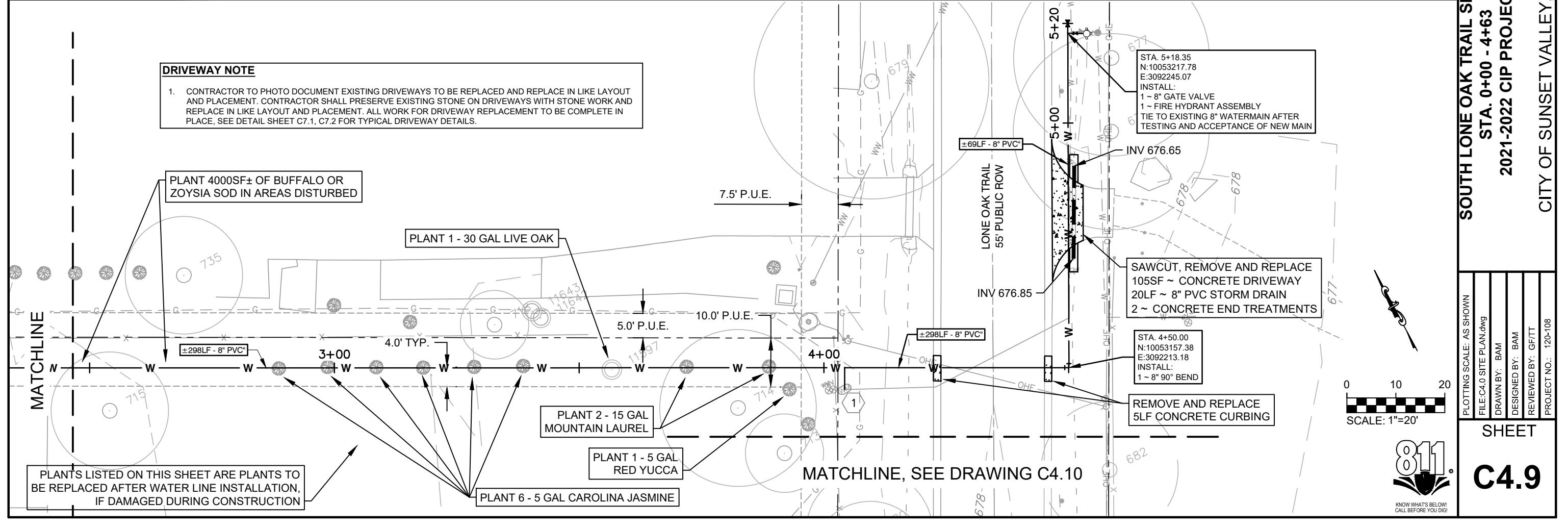
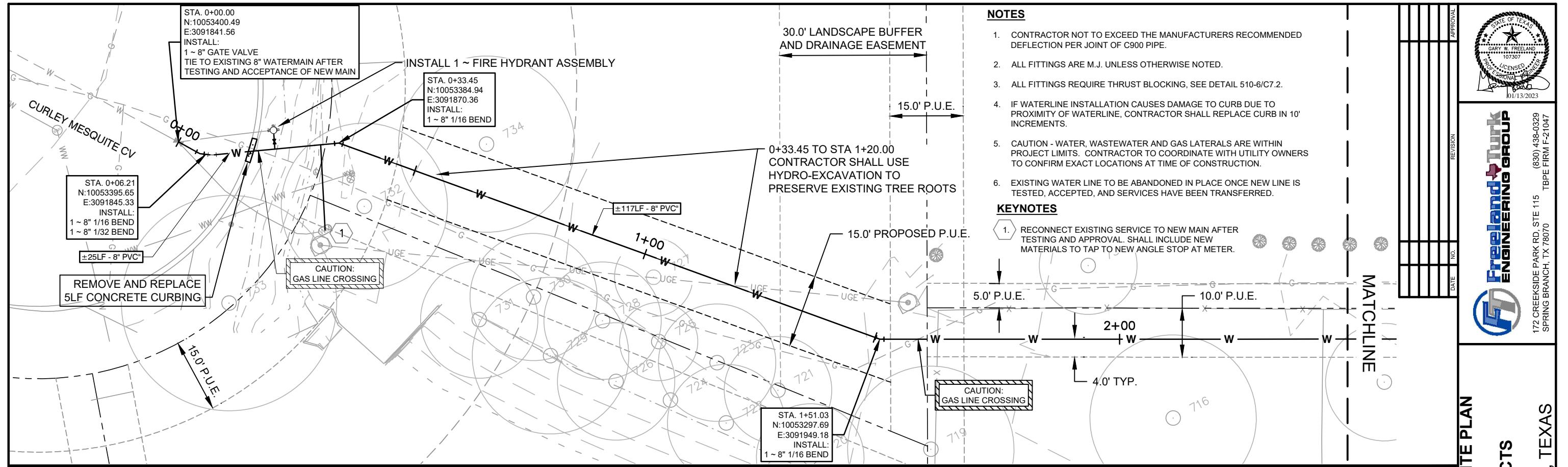






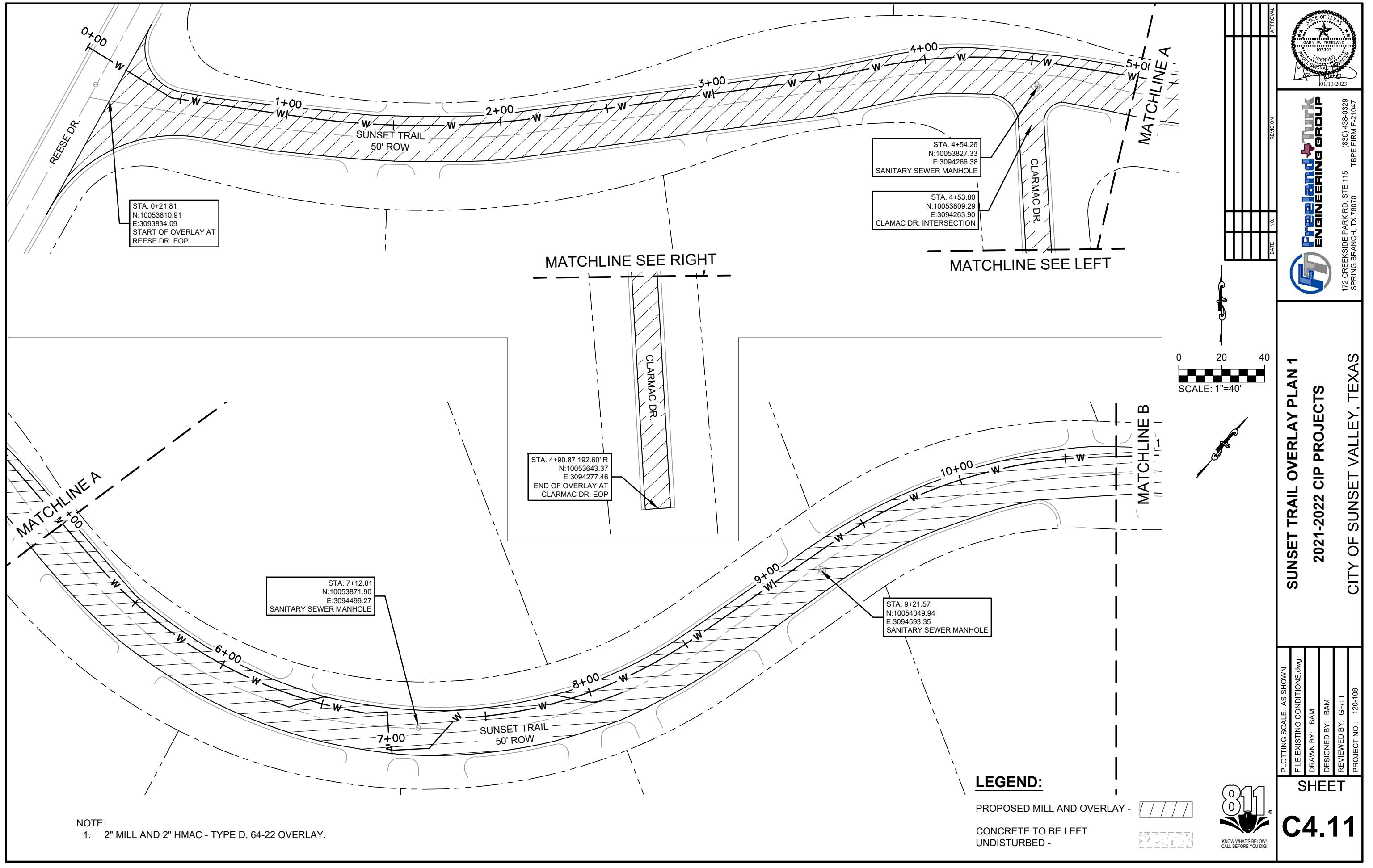
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trail improvements \ -CAD \ -Lone Oak Trail CAD \ C4.0 SITE PLAN.dwg

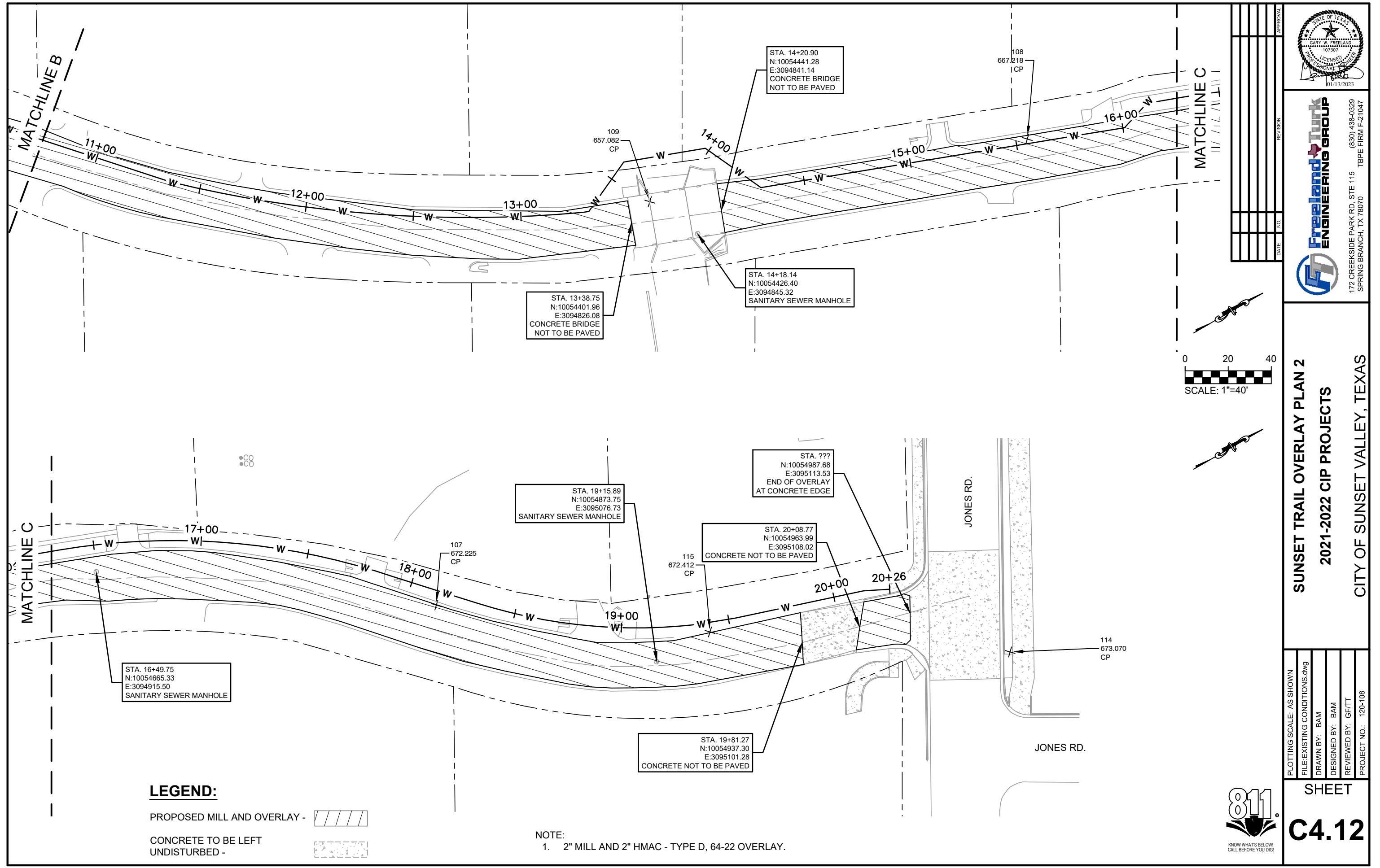


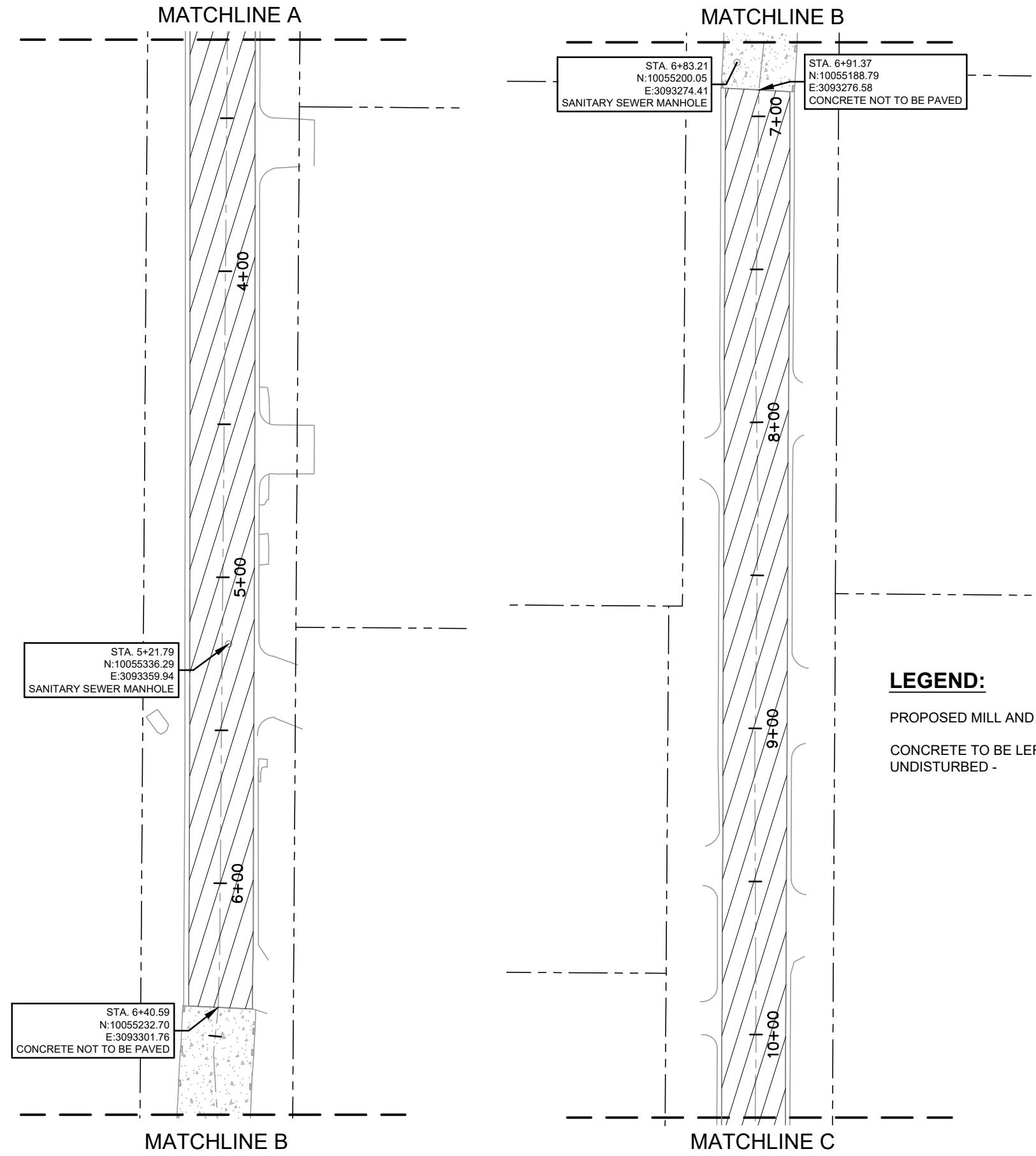
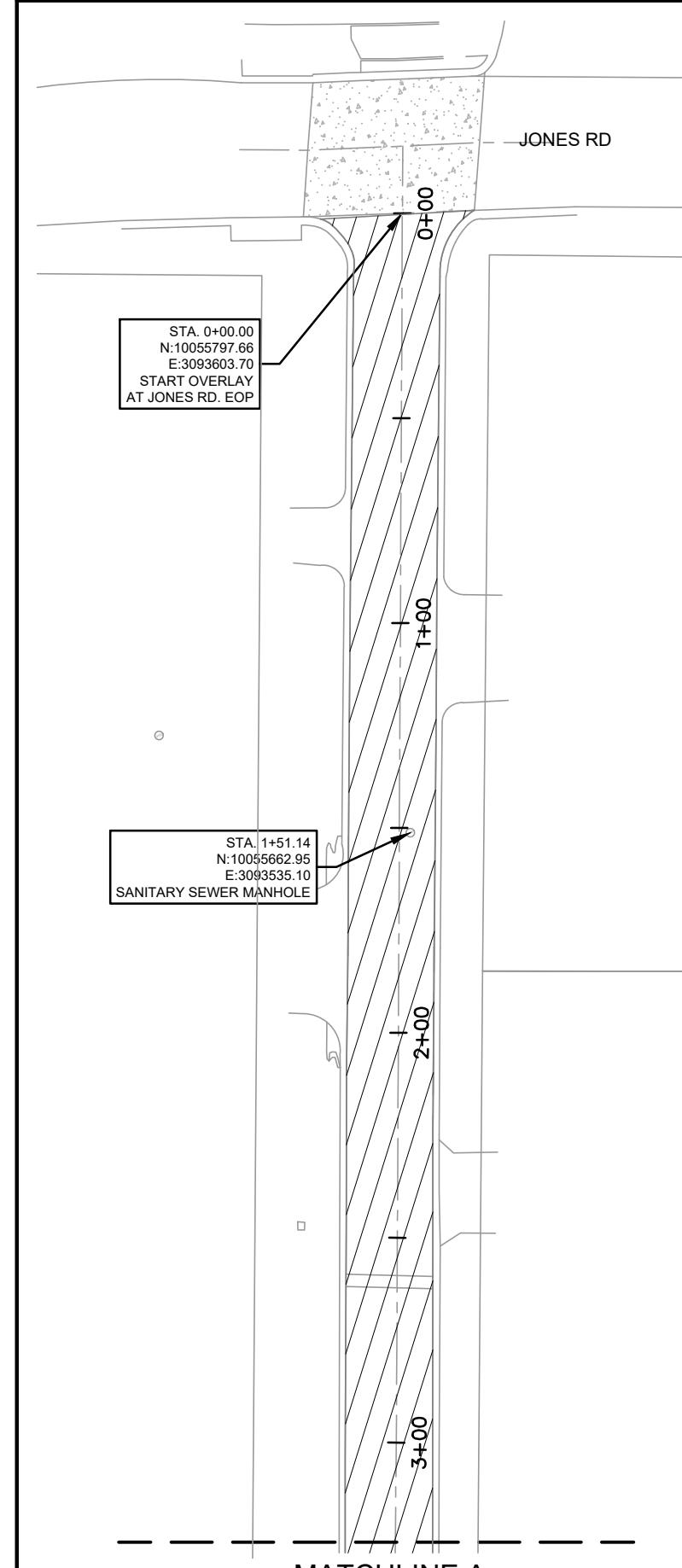


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Date: Jan 12, 2023, 9:06am User ID: tbrya  
File: Z:\eng-prd\120 city of sunset valley\108 - taslik order 10 - sunset trail and lone oak trail improvements\\_CAD\EXISTING CONDITIONS.dwg





NOTE:  
1. 2" MILL AND 2" HMAC - TYPE D, 64-22 OVERLAY.

#### LEGEND:

PROPOSED MILL AND OVERLAY -

CONCRETE TO BE LEFT UNDISTURBED -

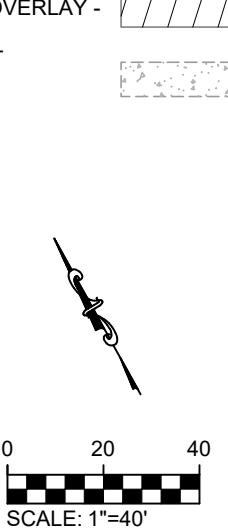
LONE OAK TRAIL OVERLAY PLAN 1  
2021-2022 CIP PROJECTS  
CITY OF SUNSET VALLEY, TEXAS

172 CREEKSIDE PARK RD, STE 115 (830) 438-0329  
SPRING BRANCH, TX 76070 TBPE FIRM F-21047

STATE OF TEXAS  
GARY W. FREELAND  
LICENCED PROFESSIONAL ENGINEER  
01/13/2023

APPROVAL  
DATE / NO. /  
REVISION /

Engineering Group  
F T

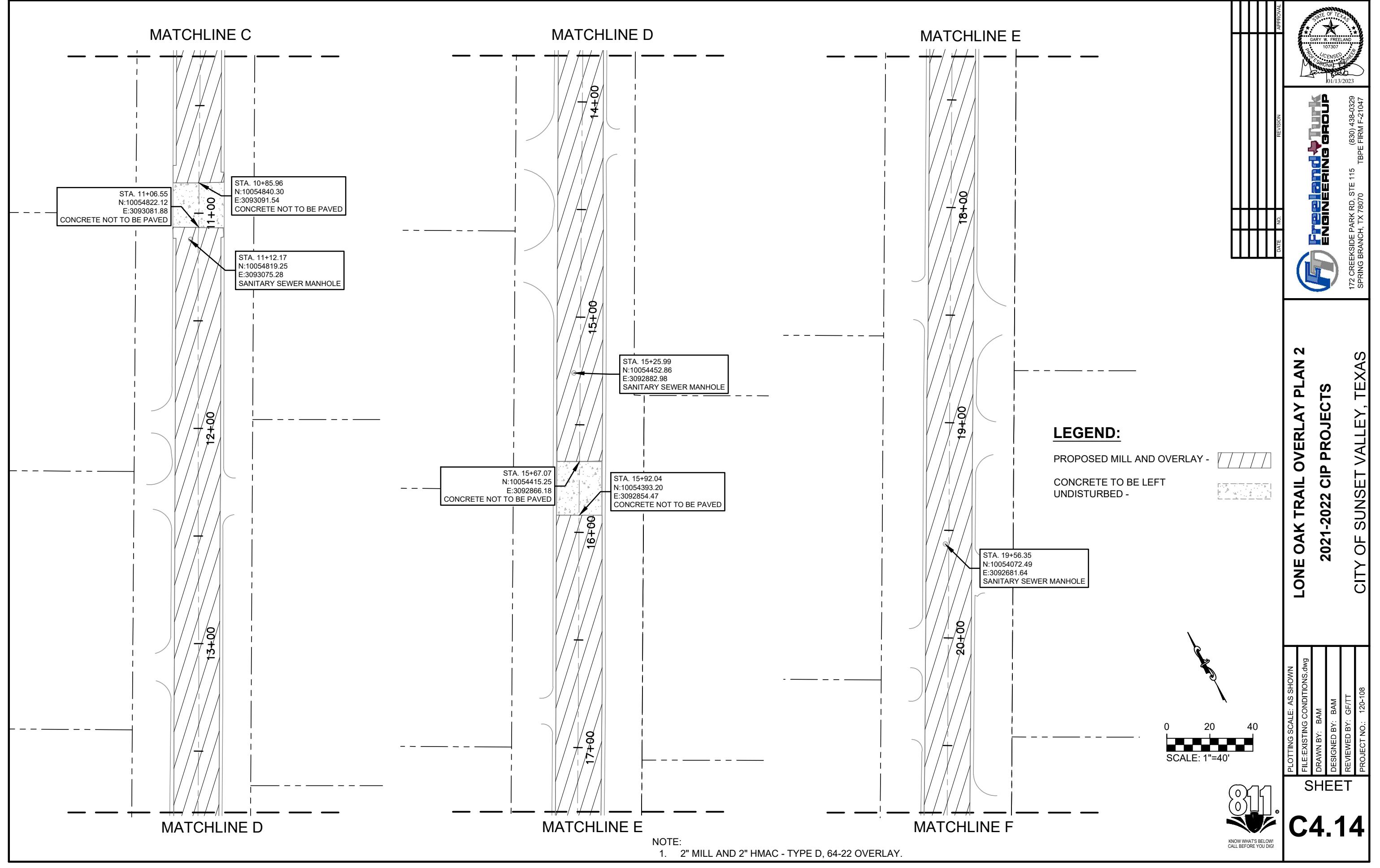


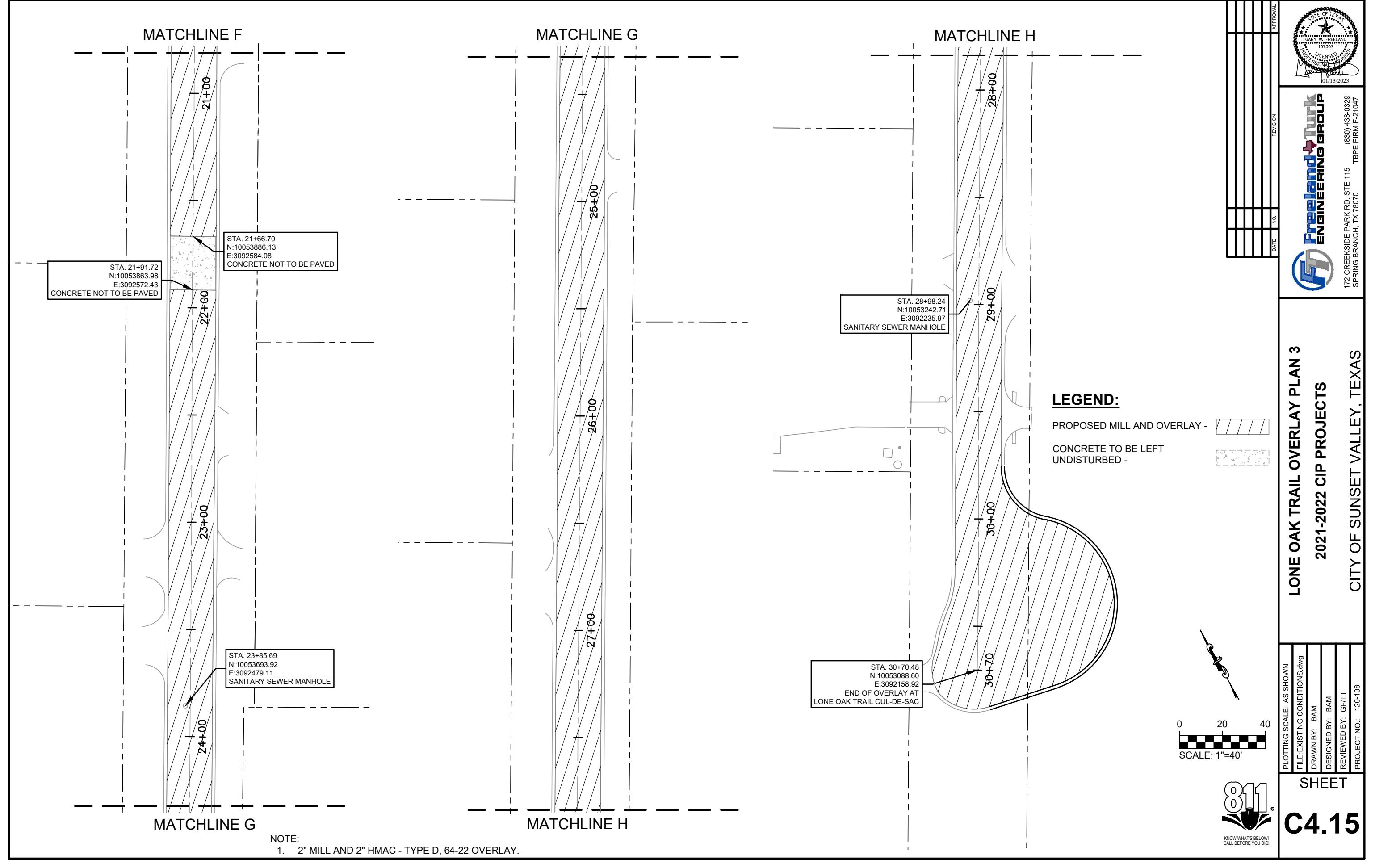
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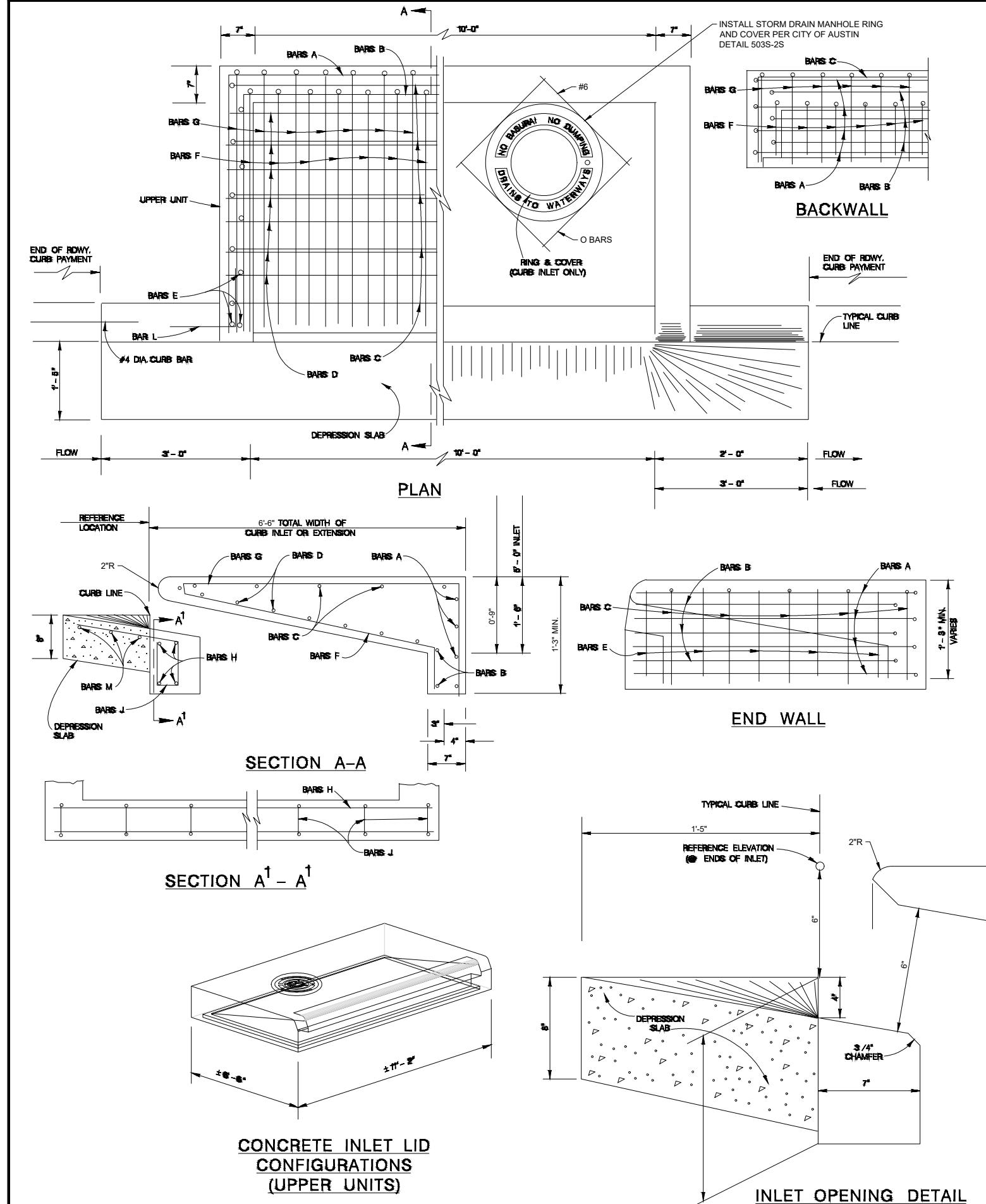
SHEET

C4.13

KNOW WHAT'S BELOW!  
CALL BEFORE YOU DIG!





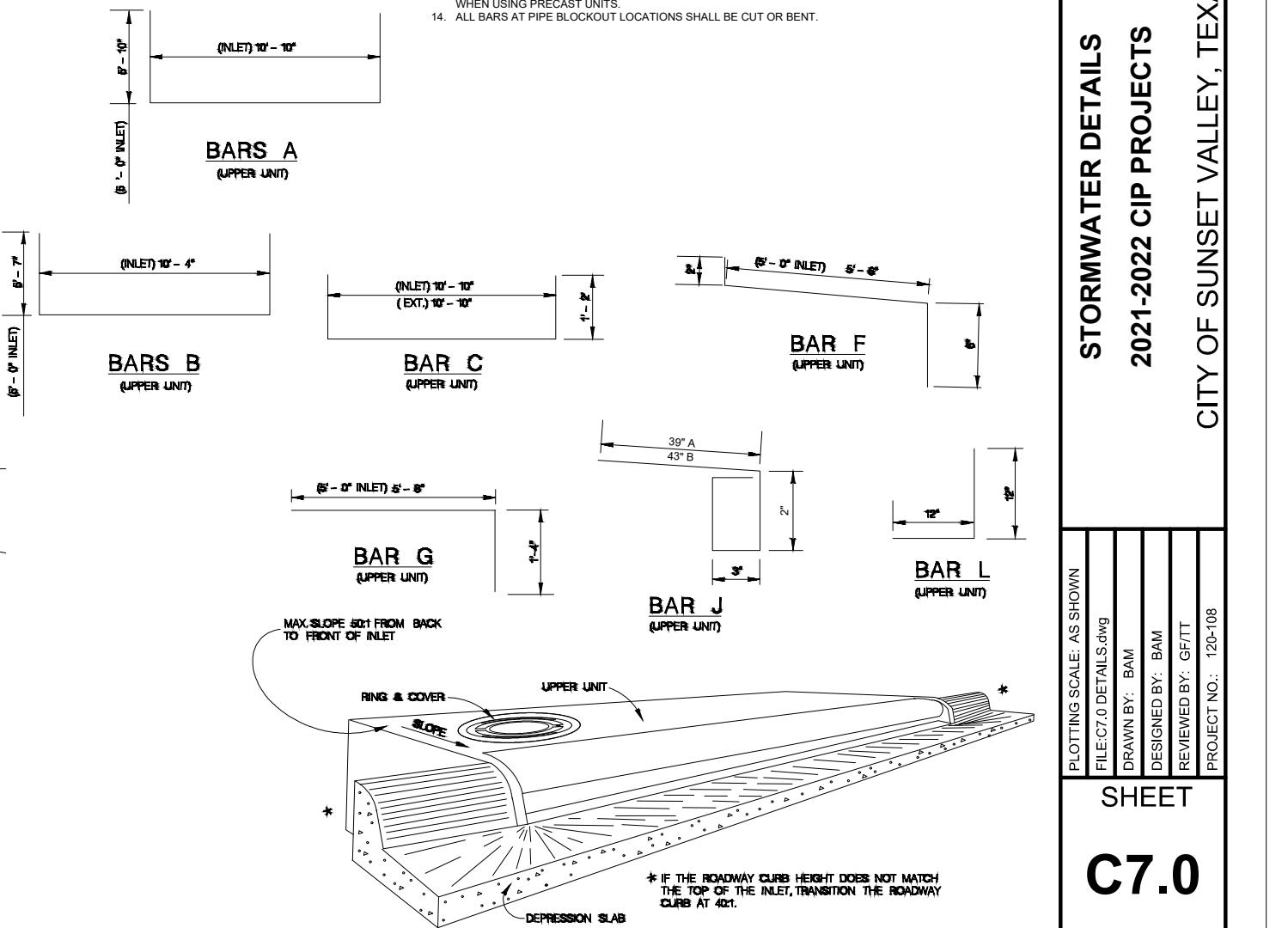


## REINFORCING STEEL (FOR $H_u = 11"$ )

UPPER UNIT 10' X 5' (TYPE II)				
BAR NO.	SIZE	SPAC.	LENGTH	
A	#4	—	22'-6"	
B	#6	—	21'-6"	
C	#4	11"	13'-2"	
D	#4	6"	10'-10"	
E	#4	11"	1'-2"	
F	#6	6"	5'-6"	
G	#6	6"	7'-0"	
H	#4	—	10'-10"	
J	#4	12"	3'-6"	
L	#4	12"	2'-0"	
M	#4	—	14'-6"	
O	#6	—	26"	

### GENERAL NOTES

1. QUANTITIES SHOWN ARE FOR CONTRACTORS INFORMATION ONLY.
2. CONCRETE FOR STRUCTURES SHALL BE CLASS "A", 3000 PSI IN 28 DAYS.
3. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
4. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 1 1/2".
5. ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. A-615, GRADE 60 REQUIREMENTS.
6. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
7. DEPRESSION SLAB SHALL RECEIVE A WOOD FLOAT FINISH.
8. FACE OF INLET TO CONFORM TO FACE OF CURB LINE.
9. ALL BARS INTERCEPTING MANHOLE RING AND COVER SHALL BE CUT R BENT.
10. PAYMENT FOR ALL EXCAVATION, BACKFILLING, CONCRETE, REINFORCING STEEL, RING AND COVER, AND STEPS SHALL BE INCLUDED IN THE UNIT COST.
11. CAST IRON MANHOLE RING AND COVER TO BE PLACED NEXT TO OUTLET PIPE, EXCEPT FOR VERTICAL OUTLET PIPE IN WHICH CASE MANHOLE RING AND COVER WILL BE OFFSET.
12. GALVANIZED BOLTS, NUTS, WASHERS, PLATES, AND GASKETS ARE SUBSIDIARY TO INLETS.
13. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MEANS TO LIFT AND PLACE THE INLETS, WHEN USING PRECAST UNITS.
14. ALL BARS AT PIPE BLOCKOUT LOCATIONS SHALL BE CUT OR BENT.



## STORMWATER DETAILS

### 2021-2022 CIP PROJECTS

CITY OF SUNSET VALLEY, TEXAS



Engineering Group



SHEET

C7.0

STATE OF TEXAS  
 GARY W. FREELAND  
 107307  
 LICENSED PROFESSIONAL ENGINEER  
 01/13/2023

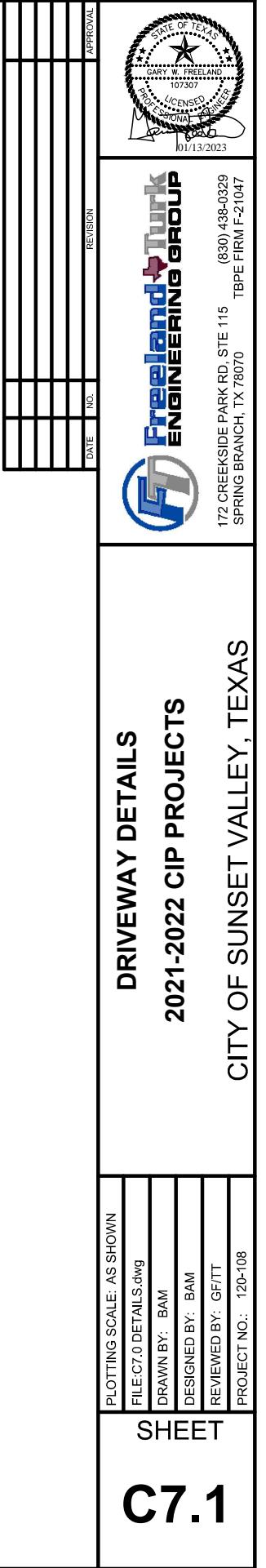
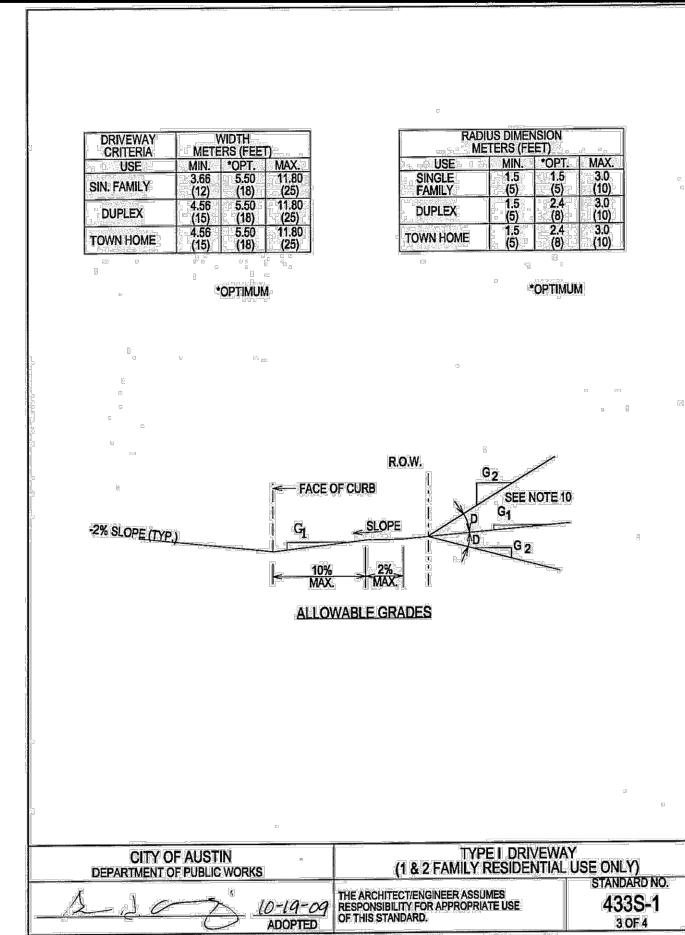
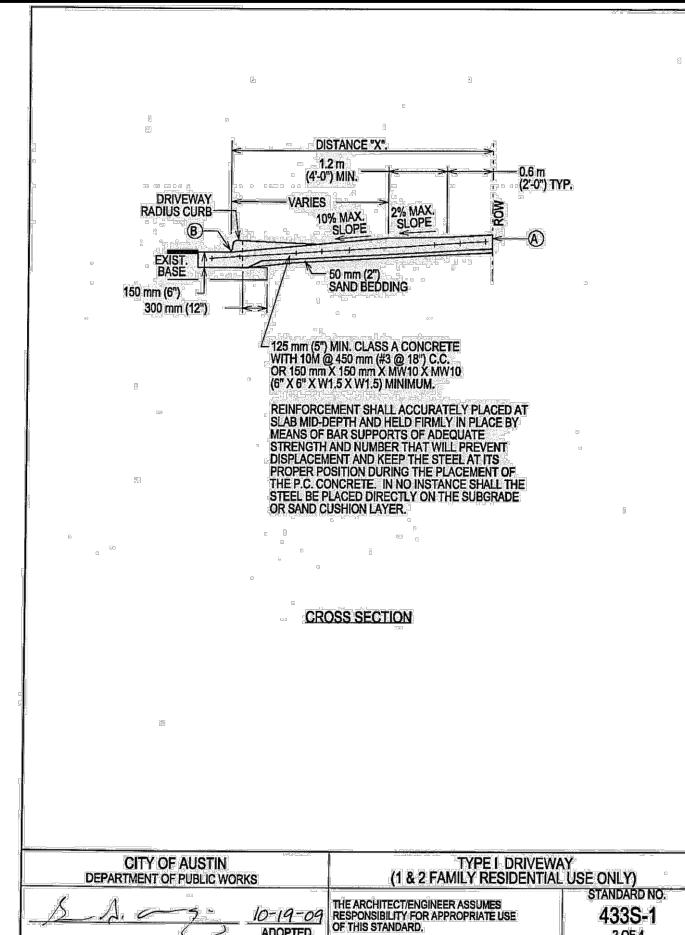
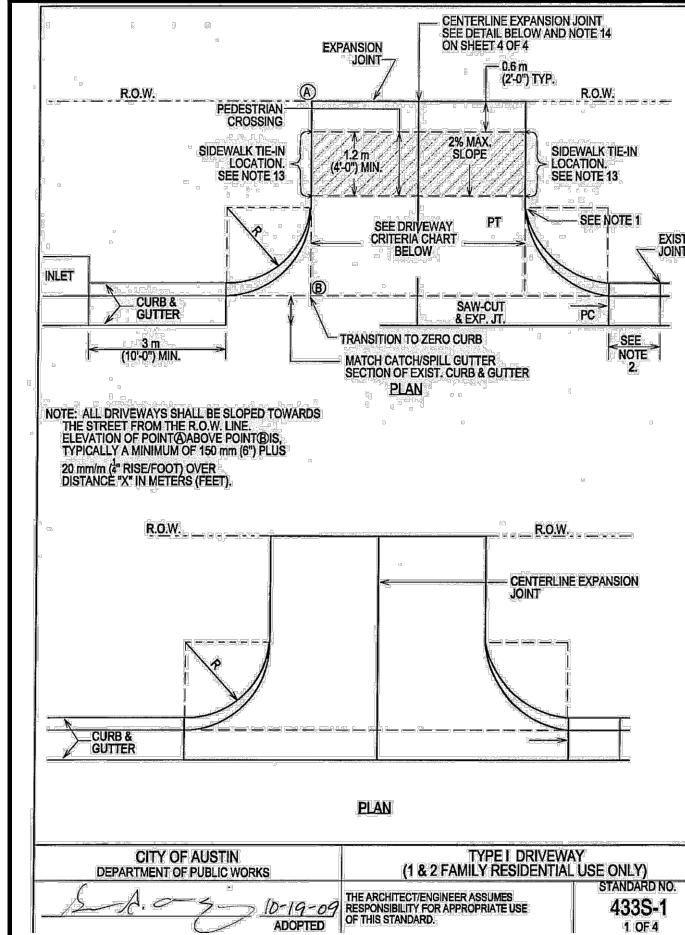
APPROVAL  
 DATE / NO. /  
 REVISION /

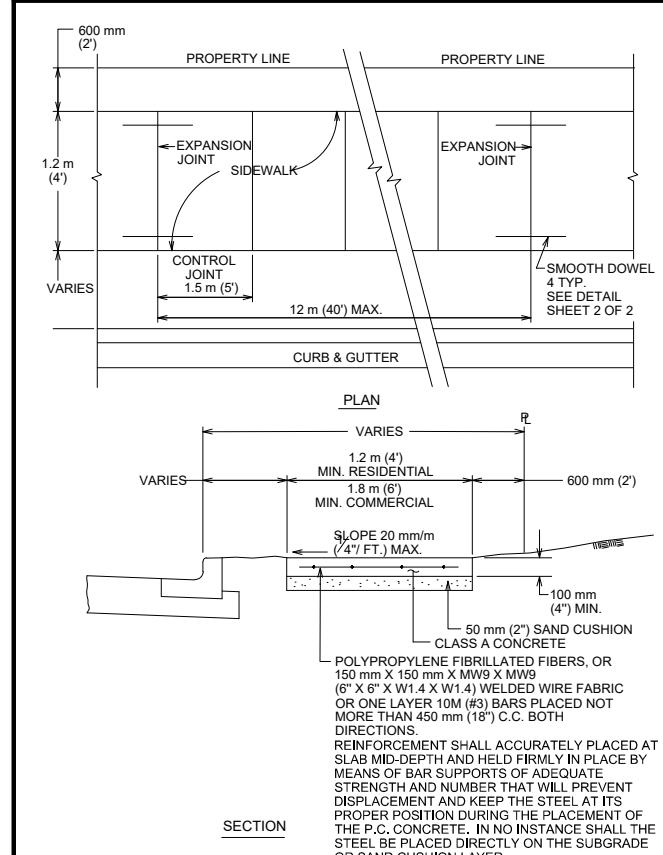
172 GREEKSIDE PARK RD, STE 115 (830) 438-0329  
 SPRING BRANCH, TX 78070 TBPE FIRM F-21047

PLOTTING SCALE: AS SHOWN  
 FILE: C7.0 DETAILS.dwg  
 DRAWN BY: BAM  
 DESIGNED BY: BAM  
 REVIEWED BY: GFTT  
 PROJECT NO.: 120-108

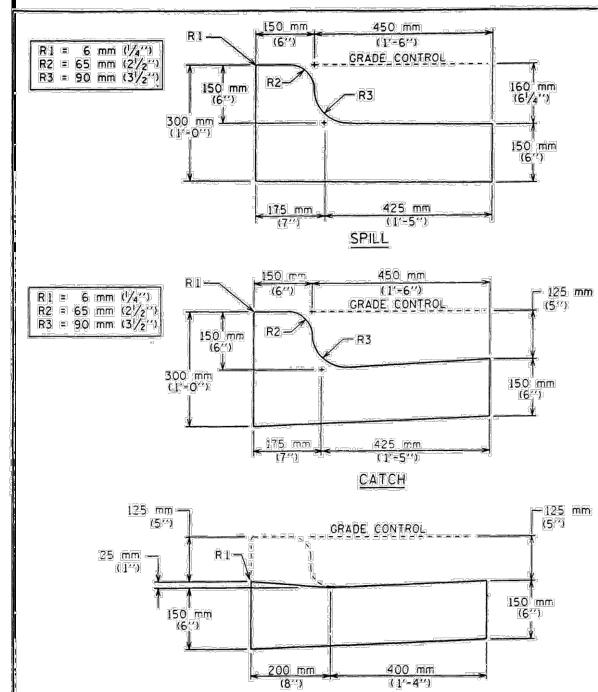
Date: Jan 12, 2023, g: 0.8m User ID: brya  
File: Z:\ena = ord\120 city of sunset valley\

5 - *Ones Rd and Sunset Trail BEP = Task Order No 3\CAN\C70 DETAIL Sdwa*

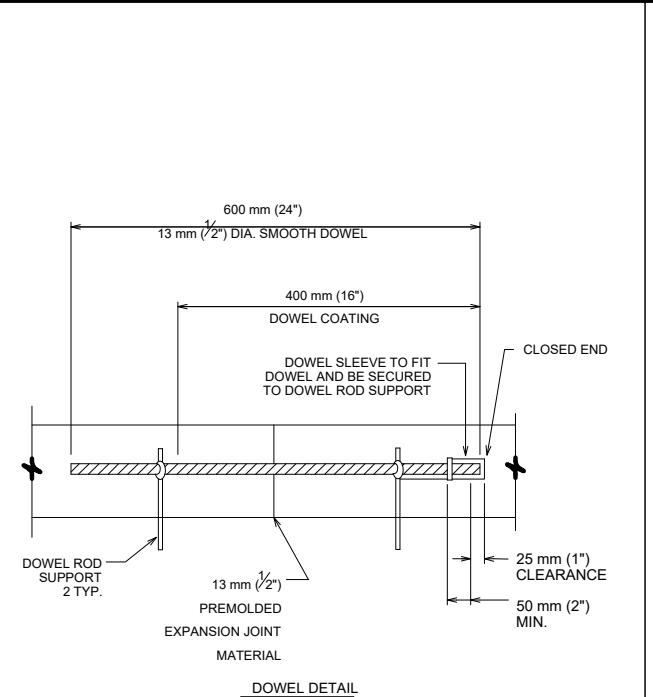




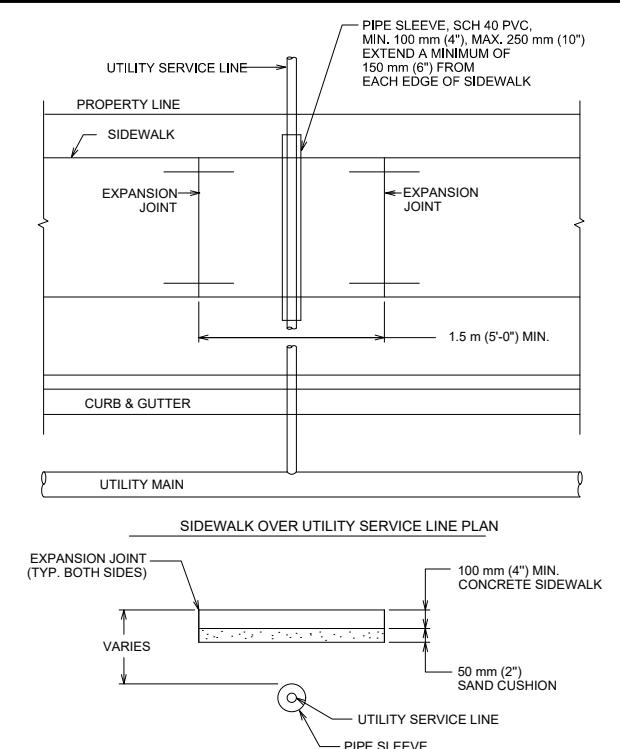
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK
RECORD COPY SIGNED BY BILL GARDNER 03/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	<b>432S-1</b> 1 OF 3	RECORD COPY SIGNED BY BILL GARDNER 03/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	<b>432S-1</b> 2 OF 3



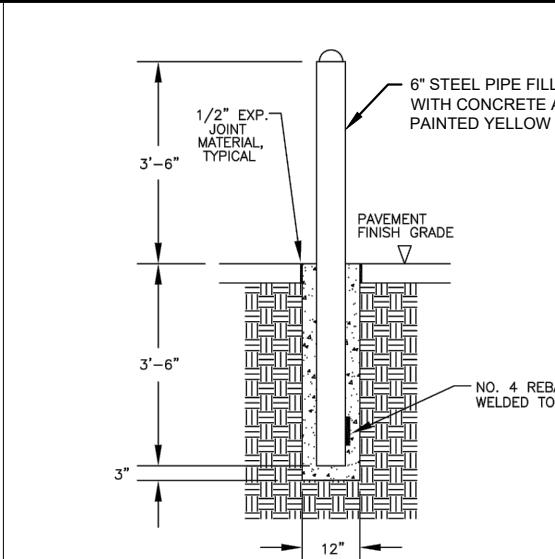
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	CURB AND GUTTER SECTION	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	RECORD COPY SIGNED BY JAMES E. THOMPSON 2/11/86 APPROVED	STANDARD NO. 430S-1
<i>John Lewis</i> 9/29/99				



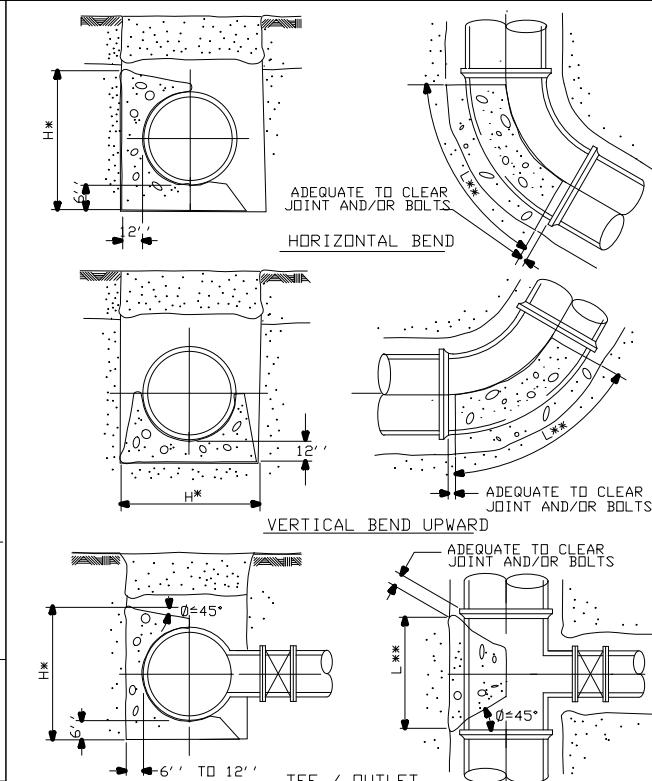
DOWEL DETAIL



NOTES:  
 1. THIS STANDARD APPLIES TO THE INSTALLATION OF NEW UTILITIES OR UTILITIES BEING REPLACED BY A NEW LINE.  
 2. NO JOINTS IN UTILITY SERVICE PIPE TO BE LOCATED INSIDE PVC PIPE SLEEVE.

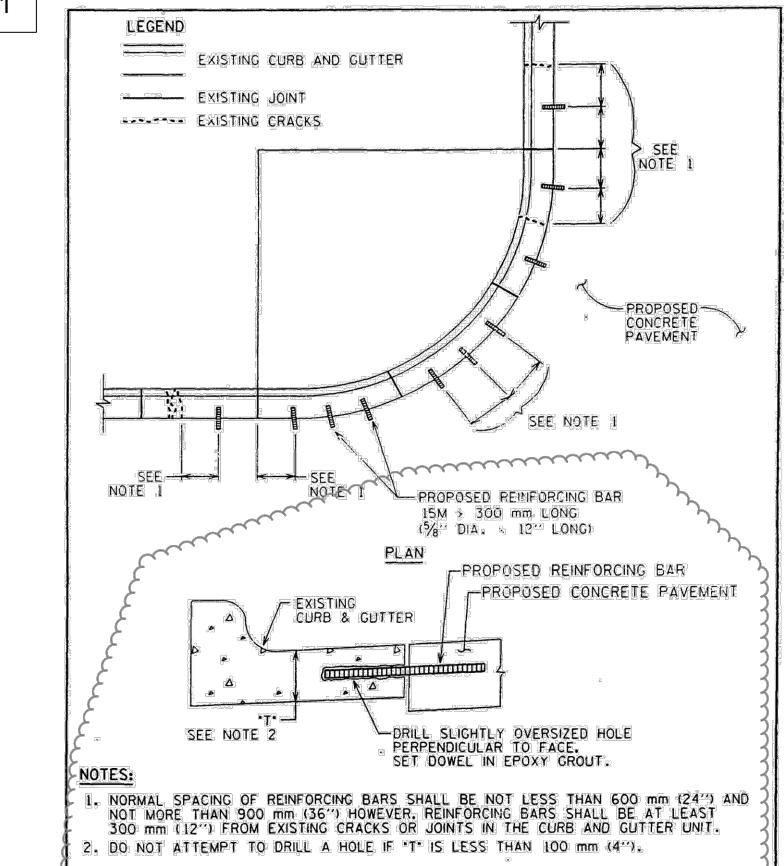


1 N.T.S.

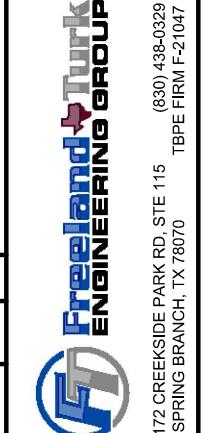
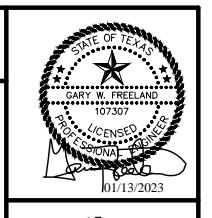


\* THE DIMENSION FOR 'H' MUST BE GREATER THAN DIAMETER OF THE PIPE  
 \*\* LENGTH 'L' ALONG THE BEND MUST BE GREATER THAN 'H' AND LESS THAN 2 TIMES 'H'

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	CONCRETE THRUST BLOCKING	CITY OF AUSTIN WATER AND WASTEWATER UTILITY	CONCRETE THRUST BLOCKING
RECORD COPY SIGNED BY JAMES E. THOMPSON 2/11/86 APPROVED	ADOPTED: 2/11/86 STANDARD NO. 510-6 INITIAL: 1 OF 2	RECORD COPY SIGNED BY JAMES E. THOMPSON 2/11/86 APPROVED	ADOPTED: 2/11/86 STANDARD NO. 510-6 INITIAL: 2 OF 2



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	REINFORCING BAR DETAIL AT EXISTING CURB AND GUTTER	STANDARD NO. 430S-5
<i>John Lewis</i> 9/15/99	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	ADOPTED

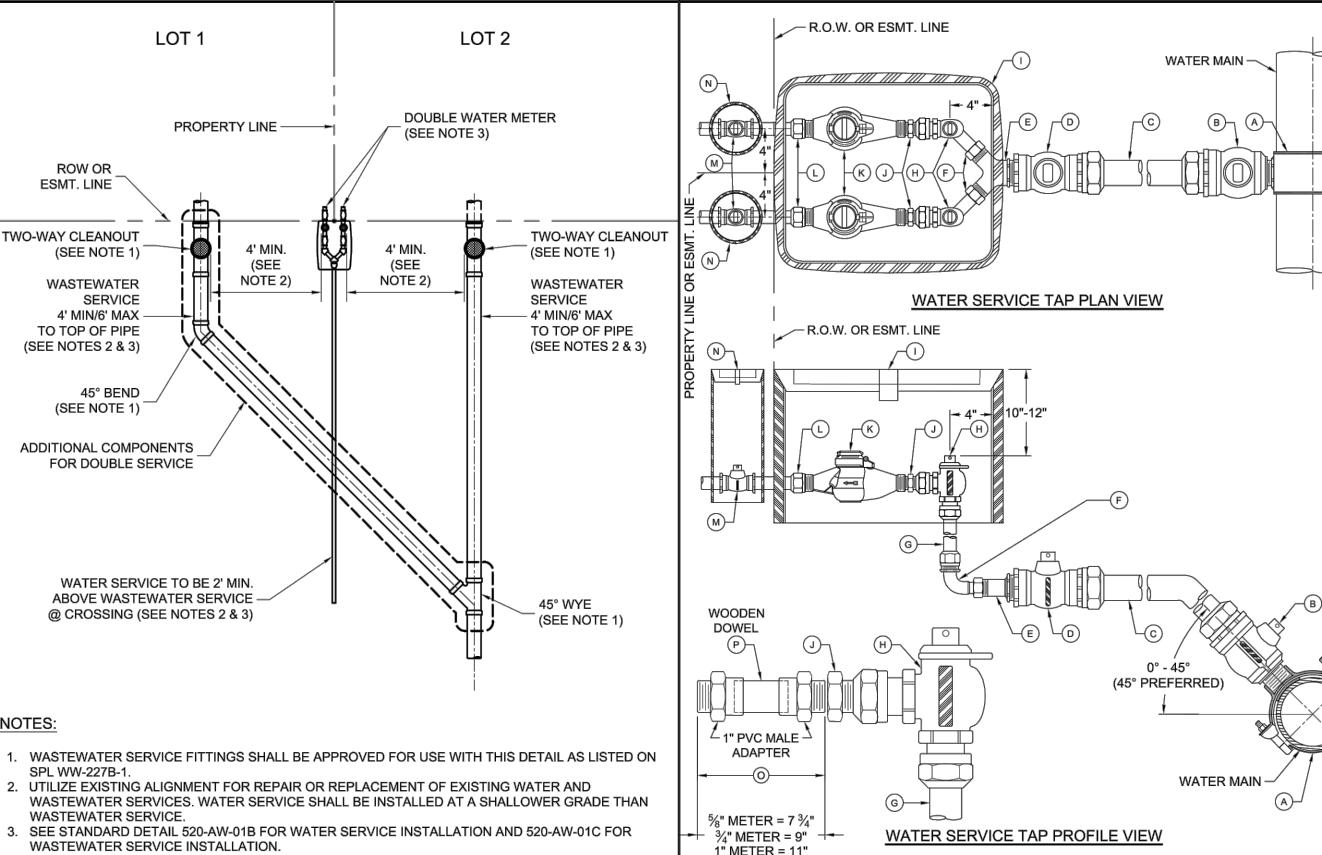


GENERAL CONCRETE DETAILS  
 2021-2022 CIP PROJECTS  
 CITY OF SUNSET VALLEY, TEXAS

PLOTTING SCALE: AS SHOWN  
 FILE: C7.0 DETAILS.dwg  
 DRAWN BY: BAM  
 DESIGNED BY: BAM  
 REVIEWED BY: GFTT  
 PROJECT NO.: 120-108

SHEET  
 C7.2

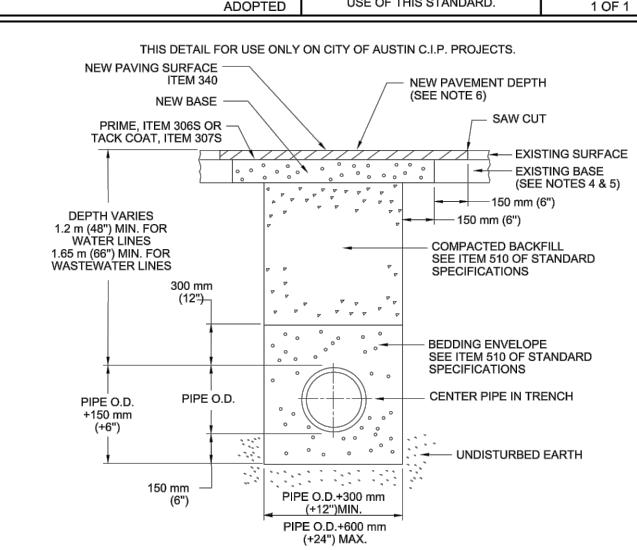




**NOTES:**

- WASTEWATER SERVICE FITTINGS SHALL BE APPROVED FOR USE WITH THIS DETAIL AS LISTED ON SPL WW-227B-1.
- UTILIZE EXISTING ALIGNMENT FOR REPAIR OR REPLACEMENT OF EXISTING WATER AND WASTEWATER SERVICES. WATER SERVICE SHALL BE INSTALLED AT A SHALLOWER GRADE THAN WASTEWATER SERVICES.
- SEE STANDARD DETAIL 520-AW-01B FOR WATER SERVICE INSTALLATION AND 520-AW-01C FOR WASTEWATER SERVICE INSTALLATION.

CITY OF AUSTIN AUSTIN WATER	WATER / WASTEWATER SERVICE ON COMMON LOT LINE
RECORD COPY SIGNED JEFF A. KYLE 11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
STANDARD NO. 520-AW-01A 1 OF 1	

**NOTES:**

- THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM OF 300 mm (12") WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
- ANY CONCRETE PAVING SHALL BE SAW CUT 150 mm (6") WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
- IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR TEMPORARY HOT MIX ASPHALTIC CONCRETE.
- ROAD BASE AND SURFACE MATERIALS IN THE TRENCH CUT SHALL BE REPLACED IN KIND OF EQUAL THICKNESS, OR MINIMUM BASE THICKNESS OF 250 mm (10"), WHICHEVER IS GREATER.
- ALL DAMAGED AREAS OF PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH MINIMUM OF 200 mm (8") OF BASE OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.
- SURFACE PAVEMENT SHALL BE OF THE KIND AND THICKNESS AS EXISTING, OR MINIMUM 50 mm (2"), WHICHEVER IS GREATER.

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	TYPICAL TRENCH WITH PAVED SURFACE
RECORD COPY SIGNED BY LEON BARBA 8/19/02 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
STANDARD NO. 510S-3 1 OF 1	

**MATERIALS LIST:**

- A. 2" SERVICE CLAMP, SPL WW-264
- B. 2" CORPORATION STOP, SPL WW-68
- C. 2" HDPE WATER SERVICE TUBING, SPL WW-65
- D. 2" BALL VALVE, SPL WW-68
- E. SINGLE SERVICE: 2" MIP X 1" COPPER FLARE FITTING, SPL WW-68 OR DOUBLE SERVICE: 2" MIP X 1" COPPER FLARE WYE, SPL WW-68
- F. 1" SWIVEL NUT x 1" COMPRESSION 90° BEND, SPL WW-68
- G. 1" HDPE WATER SERVICE TUBING, SPL WW-65
- H. 1" ANGLE METER STOP, SPL WW-68
- I. METER BOX AND LID, SPL WW-145A; FOR DUAL 1" METERS: USE TWO SINGLE METER BOXES

**MATERIALS TO BE INSTALLED BY PLUMBER:**

- J. BRASS METER BUSHING - SIZE AS NEEDED TO CONNECT ANGLE METER STOP TO METER
- K. WATER METER PURCHASED FROM AUSTIN WATER
- L. BRASS WATER METER COUPLING MALE IPT x SWIVEL COUPLING NUT:  $\frac{5}{8}$ " AND  $\frac{3}{4}$ " METERS: 8  $\frac{1}{2}$ " LONG x  $\frac{3}{4}$ " DIA.
- M. PROPERTY OWNER'S CUT OFF VALVE, SPL WW-278
- N. PROPERTY OWNER'S CUT OFF VALVE BOX AND LID
- O. TEMPORARY METER SPACER (REQUIRED TO ASSURE METER WILL FIT APPROPRIATELY)
- P. 1" WOODEN DOWEL (SHOW ADDRESS ON DOWEL USING WATERPROOF MARKER)

**NOTES:**

- SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM, SPL WW-27D.
- BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
- TOP OF METER BOXES SHOULD BE 4" ABOVE GROUND.
- PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
- METER BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
- BALL VALVE "D" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 36" BELOW FINAL GRADE.
- METER SIZES TO BE SHOWN ON PLANS.
- METER BOX CUT OUTS SHALL NOT EXCEED TWO TIMES THE PIPE DIAMETER.
- INSTALL METALLIC TRACER TAPE, SPL WW-597, MINIMUM 1' ABOVE TUBING FROM SERVICE CLAMP "A" TO BALL VALVE "D".
- TUBING SHALL BE PLACED IN A STRAIGHT ALIGNMENT AND ALLOWED TO RELAX AND "SNAKE" LOOSELY IN THE TRENCH. TUBING BEHIND CURB AND GUTTER SHALL BE INSTALLED WITH A MINIMUM 2' DEPTH OF COVER.
- 1" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 3'. 2" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 5'. BRASS FITTINGS SHALL NOT BE CONNECTED TO A BENT SECTION OF TUBING.
- SOLID, TUBULAR STAINLESS STEEL INSERT STIFFENERS FOR HDPE TUBING SHALL BE USED AT ALL COMPRESSION FITTINGS. INSERT STIFFENERS SHALL BE FROM THE SAME MANUFACTURER AS THE COMPRESSION FITTING USED.
- FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED SOLID PURPLE, SPL WW-65A. ALL APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL METER BOX LIDS SHALL BE PURPLE AND HAVE "RECLAIMED WATER" CAST INTO THEM, SPL WW-145A.

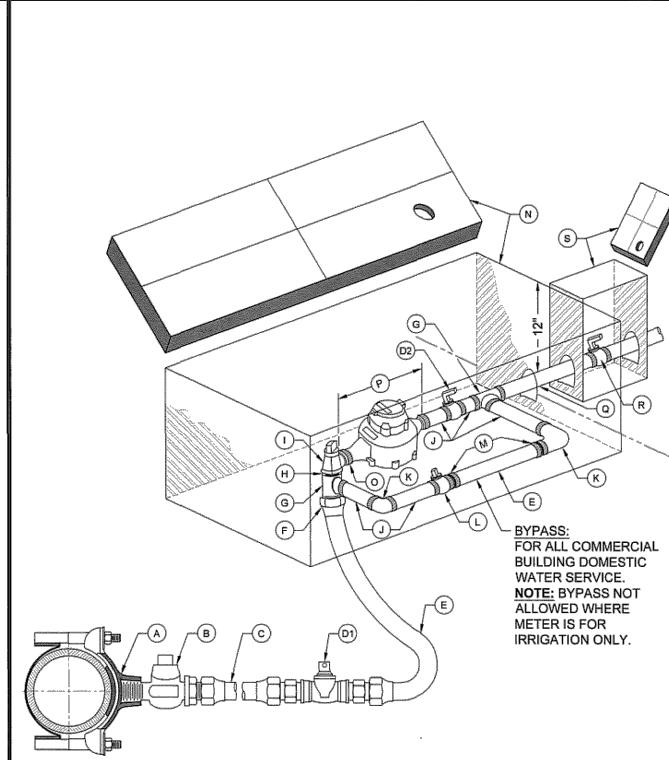
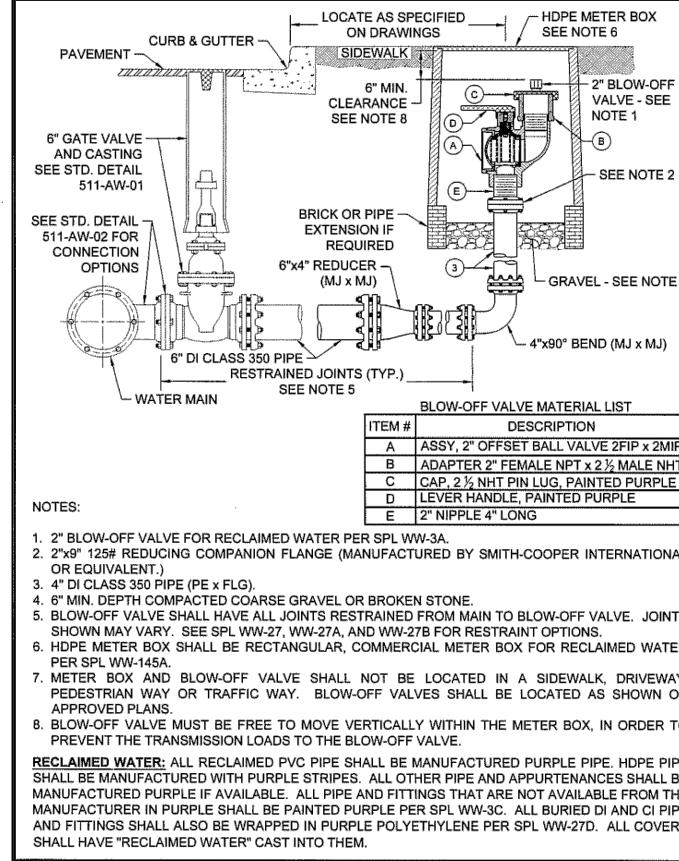
**WATERMAIN DETAILS 2**

CITY OF AUSTIN AUSTIN WATER	WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS
RECORD COPY SIGNED JEFF A. KYLE 08/16/2019 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
STANDARD NO. 520-AW-01B 1 OF 2	

**2021-2022 CIP PROJECTS**

CITY OF SUNSET VALLEY, TEXAS	CITY OF SUNSET VALLEY, TEXAS
PLOTTING SCALE: AS SHOWN FILE: C7.0 DETAILS.dwg DRAWN BY: BAM DESIGNED BY: BAM REVIEWED BY: GF/TT PROJECT NO.: 120-108	

**SHEET** **C7.4**



**MATERIALS LIST:**

- A. 2" SERVICE CLAMP
- B. 2" CORPORATION STOP MALE THREAD INLET BY COMPRESSION OUTLET
- C. 2" COPPER WATER SERVICE TUBING EXTENDED BEYOND PAVEMENT
- D1. 2" BALL VALVE, SPL WW-275
- D2. 2" BALL VALVE, SPL WW-275
- E. 2" COPPER SERVICE TUBING
- F. 2" BRASS COUPLING - COMPRESSION TO MALE IPT
- G. 2" BRASS TEE
- H. 2" BRASS CLOSE-NIPPLE
- I. 2" ANGLE METER STOP; SERVICE TUBING INLET x FLANGED OUTLET
- J. 2" BRASS NIPPLE
- K. 2" BRASS ELBOW
- L. 2" LOCKABLE CURB STOP - FEMALE IPT INLET BY COMPRESSION OUTLET
- M. 2" BRASS COUPLING - SERVICE TUBING TO MALE IPT
- N. RECTANGULAR METER BOX AND COVER, SPL WW-145A
- O. BRASS ADAPTER (2" x 1 1/2") FOR 1 1/2" METER ONLY
- P. WATER METER. LENGTH 13". (PURCHASED FROM AUSTIN WATER)
- Q. 2" COPPER SERVICE TUBING (PRIVATE PLUMBING PER CODE)
- R. CUSTOMER CUT-OFF VALVE
- S. CUSTOMER VALVE BOX AND LID

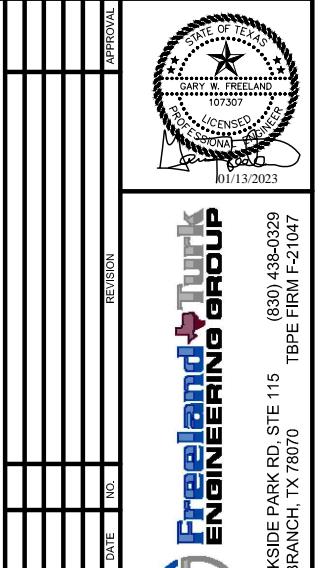
**NOTES:**

1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
3. TOP OF BOXES SHOULD BE 1" ABOVE GROUND.
4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
5. BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
6. BALL VALVE "D1" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 24" HORIZONTALLY FROM METER BOX OR 36" BELOW FINAL GRADE.
7. COPPER SERVICE SHALL BE COPPER TUBING SIZE ANNEALED SEAMLESS TYPE "K" MEETING ASTM B88 WITH NO SWEAT OR SOLDERED JOINTS.

### **RECLAIMED WATER:**

FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED PURPLE TUBING. ALL OTHER TUBING AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL TUBING AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER	2" NON - TRAFFIC RATED, RECLAIMED BLOW-OFF VALVE	CITY OF AUSTIN AUSTIN WATER	1 1/2" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS	CITY OF AUSTIN AUSTIN WATER	1 1/2" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS			
<u>Kathi L. Flowers</u> 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. 1 OF 1	STANDARD NO. 511-AW-06	<u>Kathi L. Flowers</u> 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. 1 OF 2	STANDARD NO. 520-AW-04	<u>Kathi L. Flowers</u> 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-04 2 OF 2



WATERMAIN DETAILS 3

2021-2022 CIP PROJECTS

1172 CREEKSIDE PARK RD, STE 115 (830) 438-0329  
SPRING BRANCH, TX 78070 TBPE FIRM F-21047

A circular seal for the State of Texas. The outer ring contains the words "STATE OF TEXAS" at the top and "PROFESSIONAL ENGINEER" at the bottom. The center features a five-pointed star. The name "GARY W. FREELAND" is written in the upper half of the circle, and the number "107307" is in the lower half. At the bottom, the word "LICENSED" is written within a dashed circle, and the date "01/13/2023" is at the very bottom. A handwritten signature of "Gary W. Freeland" is written across the bottom of the seal.

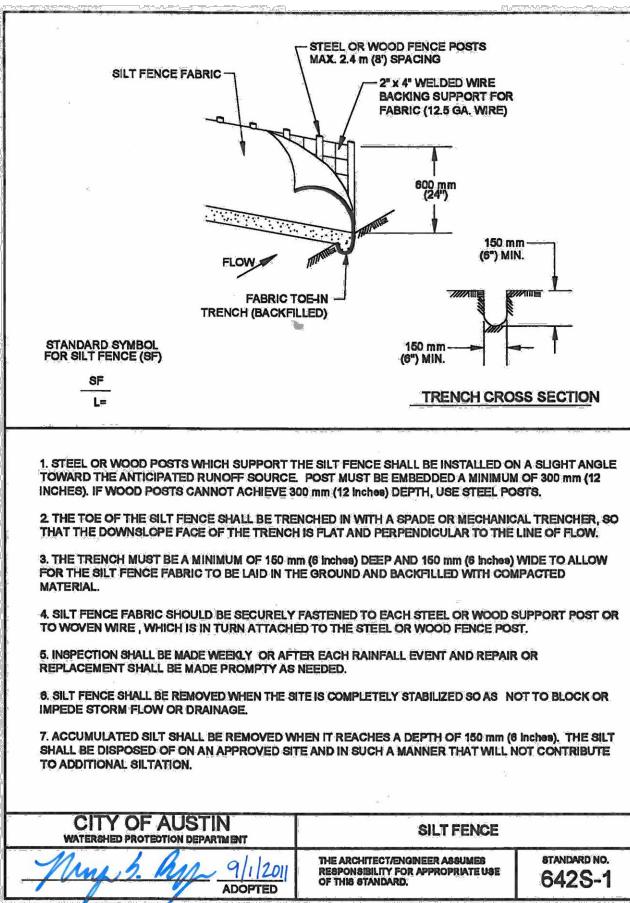
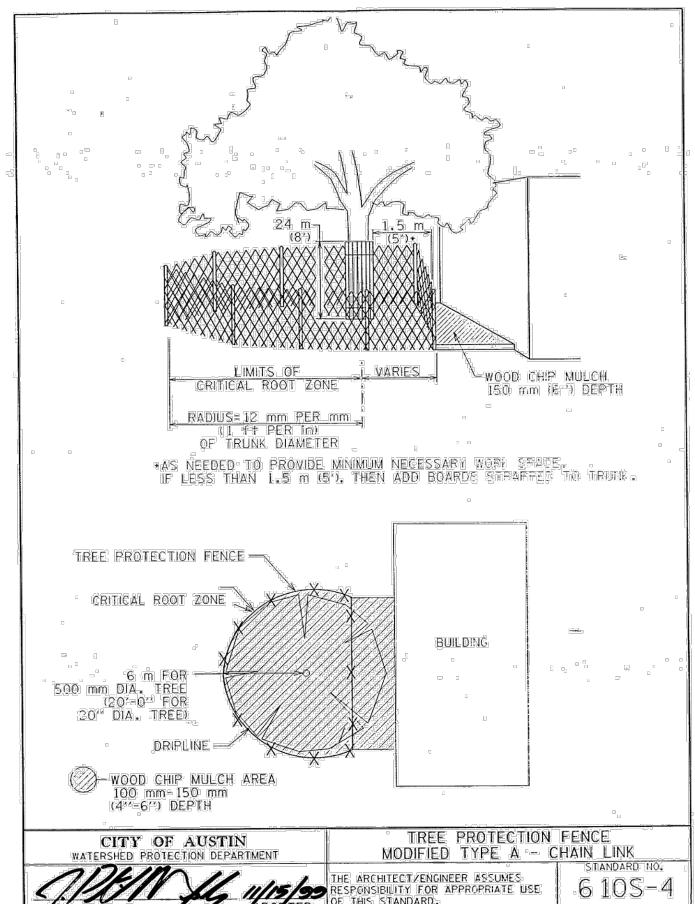
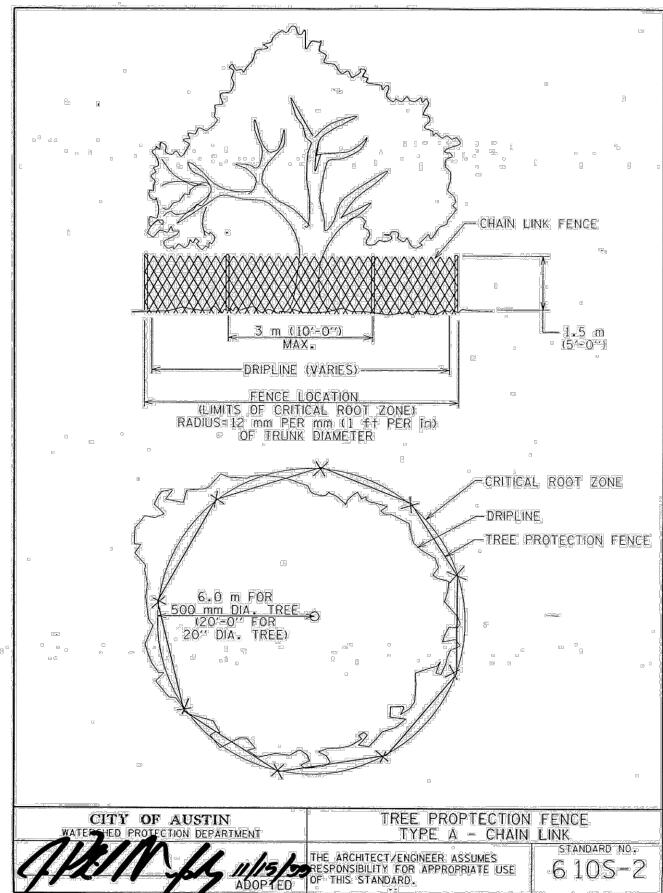
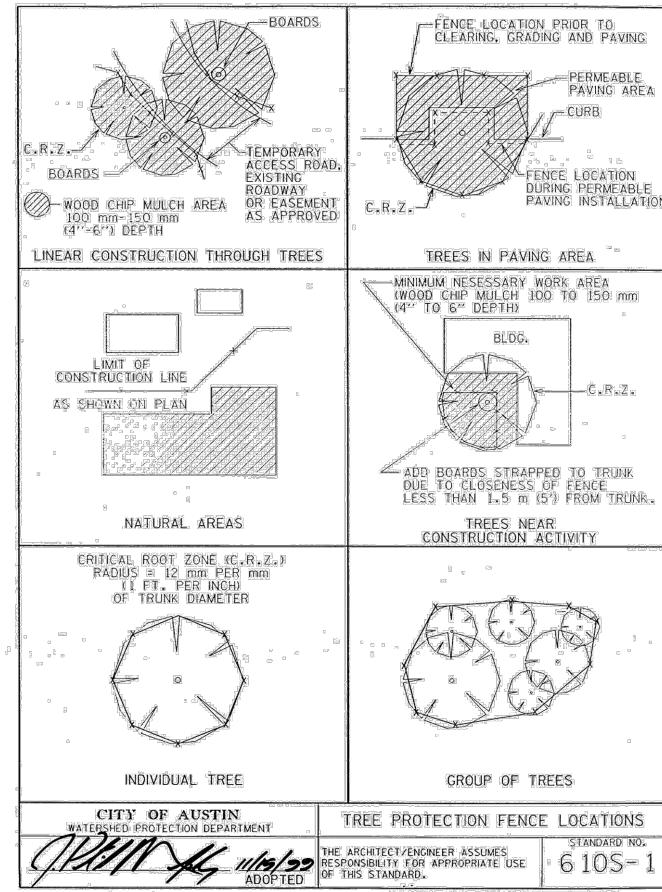
**SHEET**

**C7.5**

4667

7-5

7.5



PLOTTING SCALE: AS SHOWN	FILE: C7.0 DETAIL.S.dwg	APPROVAL	
DRAWN BY: BAM	DESIGNED BY: BAM	REVIEWED BY: GFTT	PROJECT NO.: 120-108
C7.6		SHEET	
2021-2022 CIP PROJECTS			
CITY OF SUNSET VALLEY, TEXAS			

**Freeland & Tuck**  
**ENGINEERING GROUP**

172 GREEKSIDE PARK RD, STE 115 (830) 438-0329  
 SPRING BRANCH, TX 78070 TBPE FIRM F-21047

STATE OF TEXAS  
 GARY W. FREELAND  
 107307  
 LICENSED PROFESSIONAL ENGINEER  
 01/13/2023