

Date: Jan 12, 2023, 9:00am User ID: tbrya  
File: Z: \eng - prd\120 city of sunset valley\108 - task order 10 - sunset trail and lone oak trail improvements\CAD\C0.0 COVER.dwg

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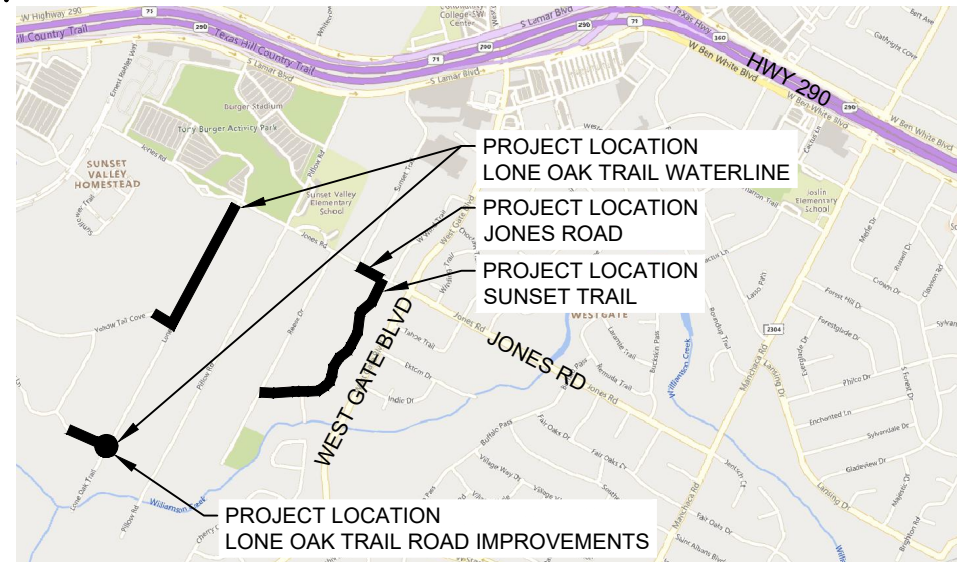
## CITY OF SUNSET VALLEY 2021-2022 CIP PROJECTS

MAYOR  
MARC BRUNER

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

CITY ADMINISTRATOR  
MATT LINGAFELTER

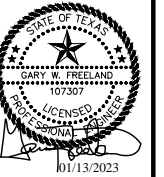
DIRECTOR OF PUBLIC WORKS  
CAROLYN MEREDITH



**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.



**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: GF/TT  
PROJECT NO.: 120-108

**SHEET**  
**C0.0**

Date: Jan 12, 2023, 9:00am User ID: tbrja  
File: Z:\eng - prd\120 city of sunset valley\108 - task order 10 - sunset trail and lone oak trail improvements\CAD\C0.0 COVER.dwg

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 STATUES 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

SPECIAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CONTACT 811 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181. GAS UTILITY PROVIDER MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
3. THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION. CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL CONTACT CITY 48 HOURS PRIOR TO EXCAVATION IN THE IMMEDIATE AREA OF WATER LINE.
5. DAMAGE TO ANY UNDERGROUND DRAINAGE SYSTEM SHALL BE REPORTED TO THE CITY PUBLIC WORKS DEPARTMENT. THE DIRECTOR OR HIS STAFF WILL INSTRUCT THE DAMAGING PARTY (CONTRACTOR) ON HOW TO REPAIR THE LINE AT THE CONTRACTORS COST.
6. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF THE POWER POLES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED AT THEIR EXPENSE TO PROVIDE ACCEPTABLE BRACING OF SPECIFIC ELECTRIC POWER POLES DURING THE CONSTRUCTION OF THIS PROJECT AND/OR PROVIDE AT THEIR EXPENSE FOR THE ELECTRIC COMPANY TO PROVIDE BRACING. IN ADDITION IT IS CRITICAL THE CONTRACTOR WORK CLOSELY WITH THE ELECTRIC COMPANY FOREMAN FOR THE SAKE OF SAFETY TO ISOLATE AND/OR PROTECT CONTRACTOR FROM ENERGIZED ELECTRIC CONDUCTORS ABOVE AREAS OF PROPOSED EXCAVATION.
7. FEMA NOTE - VARIOUS PARTS OF THE CIP PROJECTS HEREON LIE WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND ZONE "AE" AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, AS SHOWN ON MAP NO. 48453C0585H AND 48453C0580H, DATED SEPTEMBER 26, 2008. NO PORTION OF OF THIS SITE IS WITHIN A SPECIAL FLOOD HAZARD ZONE.
8. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE TEXAS ADMINISTRATIVE CODE, TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, AND ANY OTHER GOVERNING ENTITY ORDINANCES OR CODES.
9. CONTRACTOR SHALL FIELD VERIFY NUMBER AND ANGLE OF D.I. BENDS TO BE INSTALLED. ADDITIONAL BENDS MAY BE REQUIRED AND ARE SUBSIDIARY TO THE WORK.
10. CONTRACTOR IS RESPONSIBLE FOR DEWATERING EXISTING PIPES PRIOR TO MAKING TIE-INS.
11. CONTRACTOR TO PROVIDE TWO (2) PROJECT SIGN PER CITY STANDARDS. SIGNS INSTALLATION SHALL BE COORDINATED DURING THE PRE-CONSTRUCTION MEETING. SUBMIT SIGNS AS SHOP DRAWINGS.
12. THE CONTRACTOR SHALL REMOVE FROM THE PROJECT AREA ALL SURPLUS MATERIAL AND SPOILS AND IS INCIDENTAL TO THE PROJECT, IT IS A NOT A SEPERATE PAY ITEM. SURPLUS MATERIALS INCLUDE ANYTHING LEFT OVER AS A RESULT OF THIS PROJECT TO INCLUDE TRASH, DIRT, CONCRETE, ASPHALT, ETC. AND SHALL BE PROPERLY DISPOSED OF.
13. CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PROTECTION AND NOTIFICATIONS TO TCEQ, IF APPLICABLE.
14. ACCESS TO ALL ROADWAYS SHALL BE KEPT OPEN AT ALL TIMES, AT LEAST ONE WAY, TO ALL EMERGENCY VEHICLES, SCHOOL BUSES, POSTAL SERVICES. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, FLAGGERS, BARRICADES NECESSARY TO MAINTAIN THIS CONDITION.
15. CONTRACTOR SHALL KEEP ALL UTILITIES IN SERVICE, EXCEPT FOR THE TIMES WHEN SERVICES ARE RECONNECTED AND SHALL BE DONE WITH APPROVAL FROM THE CITY AND UNDER THE SUPERVISION OF THE INSPECTOR.
16. CONTRACTOR SHALL VIDEO AND PHOTO PROJECT LIMITS PRIOR TO START OF CONSTRUCTION AND IS SUBSIDIARY TO THE WORK.
17. WORKING HOURS ARE MONDAY THROUGH FRIDAY FROM 7:00AM TO 6PM LOCAL TIME - NO WEEKEND OR HOLIDAY WORK IS ALLOWED UNLESS APPROVED BY THE CITY.

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.

GENERAL NOTES

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: GF/TT
PROJECT NO.: 120-108

SHEET

C0.1



172 CREEKSIDE PARK RD, STE 115  
SPRING BRANCH, TX 78070

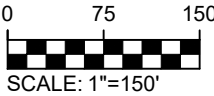
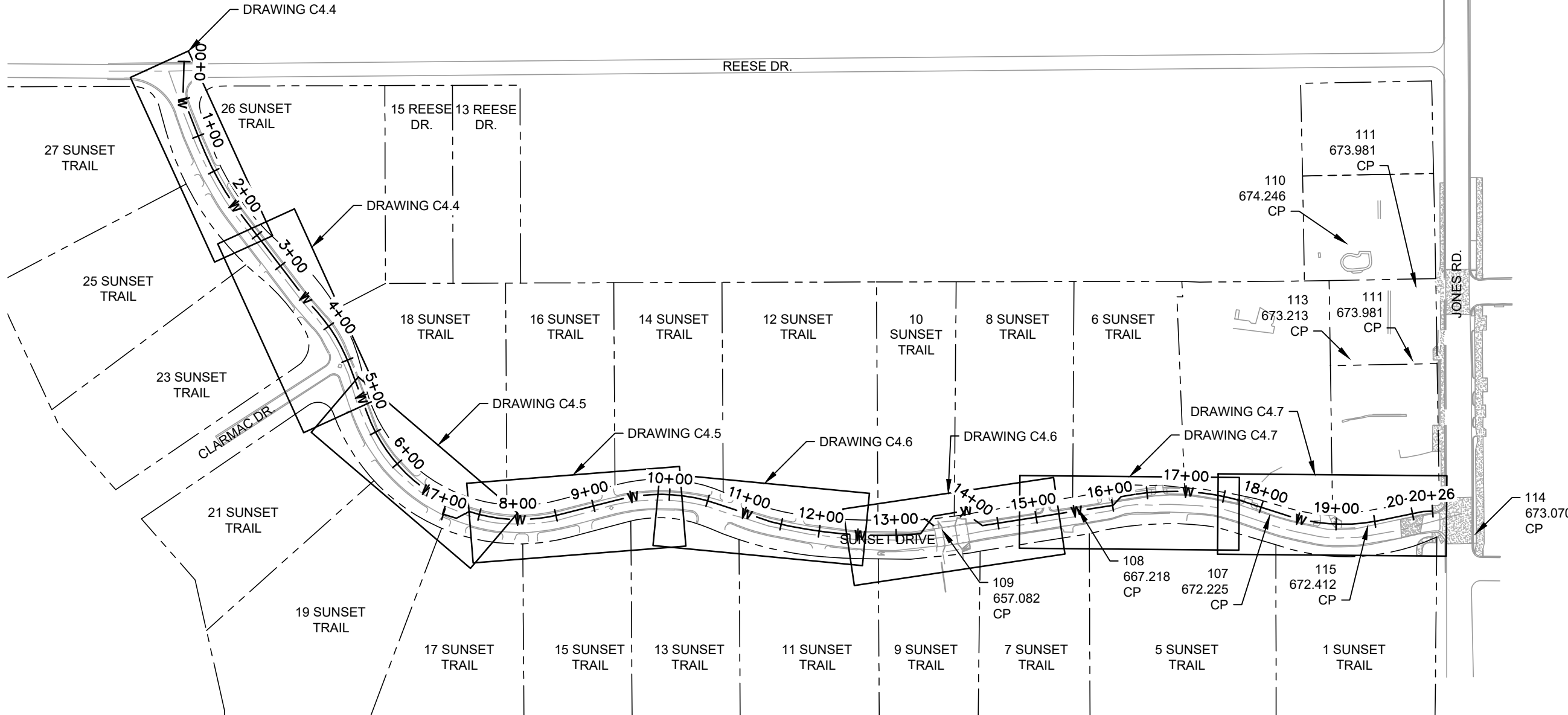
(830) 438-0329

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**Freeland+Turk**  
**ENGINEERING GROUP**

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

# SUNSET TRAIL KEY MAP

## 2021-2022 CIP PROJECTS

PLOTTING SCALE: AS SHOWN FILE:EXISTING CONDITIONS.dwg DRAWN BY: BAM DESIGNED BY: BAM REVIEWED BY: GF/IT PROJECT NO.: 470, 409
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SHEET

# C0.3







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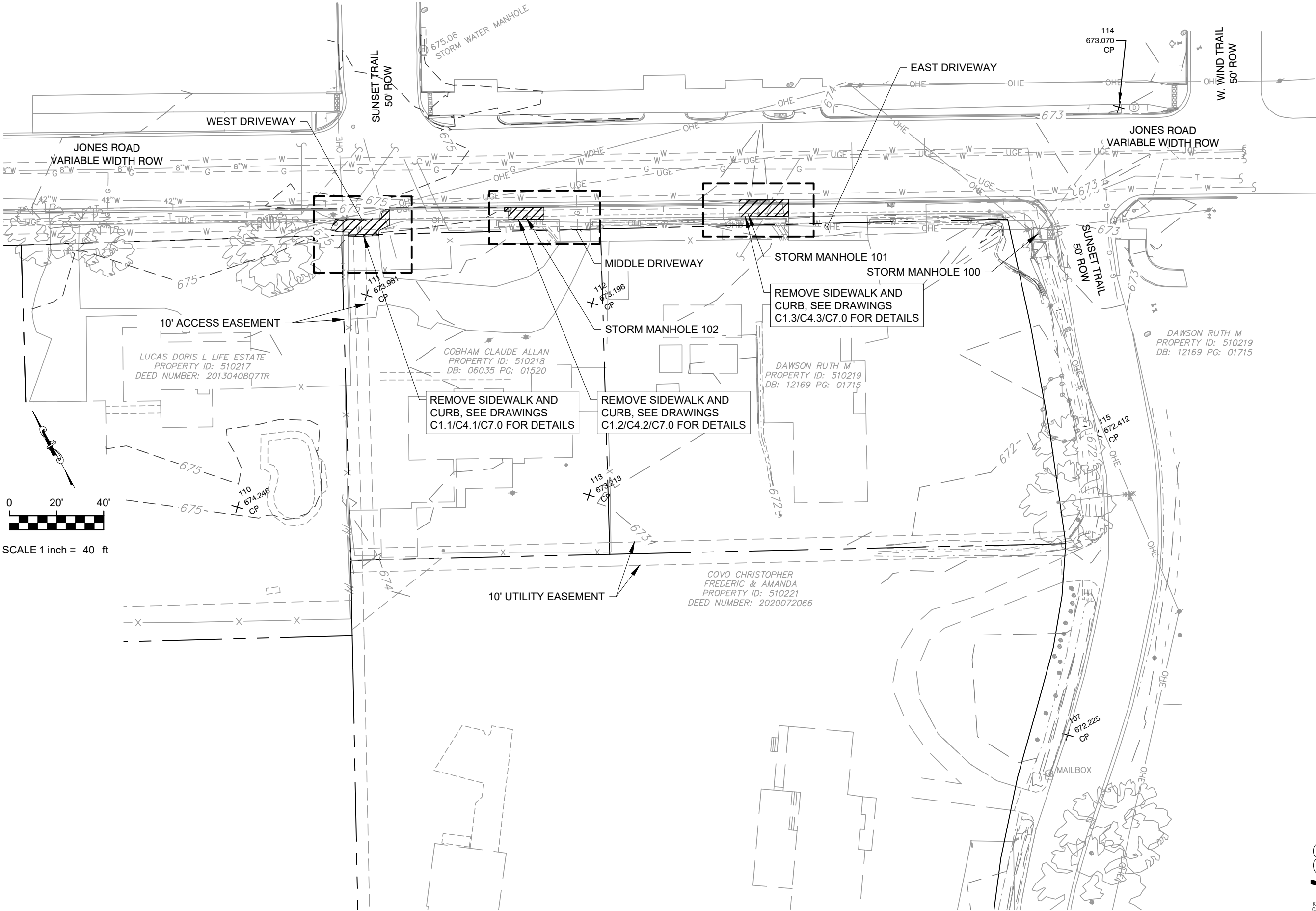
## CITY OF SUNSET VALLEY, TEXAS

SHEET

**C0.4**

## C0.4

Date: Jan 12, 2023, 9:01am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\105 - Jones Rd and Sunset Trail PER - Task Order No. 3\CAD\C4.0 SITE PLAN.dwg



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

SHEET

C1.0

JONES ROAD EXISTING CONDITIONS AND  
DEMOLITION PLAN  
2021-2022 CIP PROJECTS  
CITY OF SUNSET VALLEY, TEXAS



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File: Z:\eng - prd\120 city of sunset valley

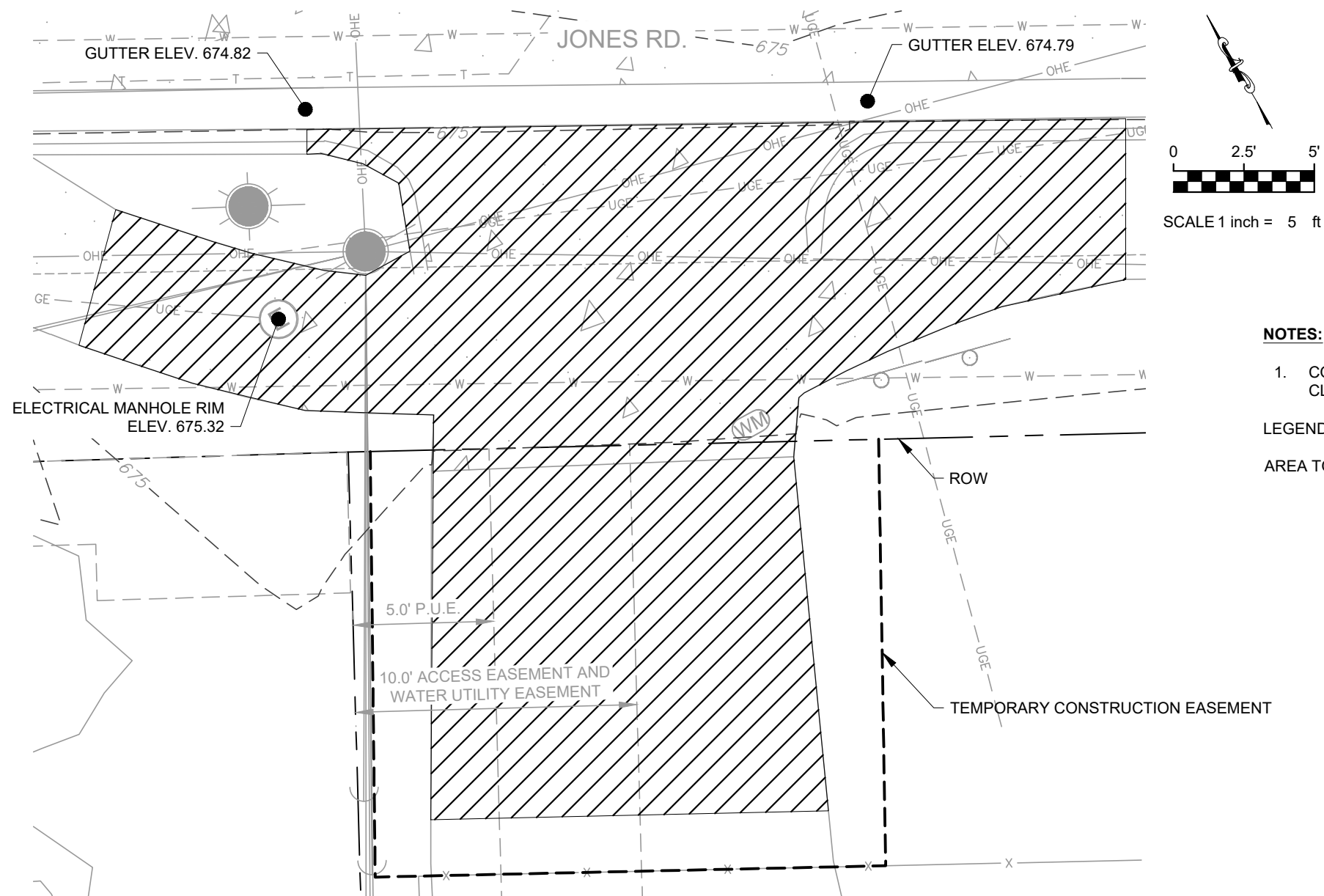
REMOVE DRIVEWAY/SIDEWALK/CURB TO THIS JOINT



- ELECTRICAL MANHOLE TO REMAIN
- ELECTRICAL POLES TO REMAIN AND BE PROTECTED
- DEMO SIDEWALK TO THIS JOINT

- DEMO CURB TO THIS JOINT
- REMOVE DRIVEWAY TO PAVEMENT EDGE

CONTRACTOR TO PROTECT DECORATIVE PAVING  
IN ROADWAY, ANY DISTURBED DECORATIVE  
PAVING SHALL BE REPAIRED AND REPLACED IN  
KIND BY CONTRACTOR AT THEIR EXPENSE



1. CONTRACTOR TO COORDINATE DRIVEWAY CLOSURE WITH LAND OWNER.

AREA TO BE REMOVED -



KNOW WHAT'S BELOW  
CALL BEFORE YOU DIG

[illegible]

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

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

SHEET

## C1.1



Date: Jan 12, 2023, 9:01am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\105 - Jones Rd and Sunset Trail PER - Task Order No. 3\CAD\C4.0 SITE PLAN.dwg

REMOVE STONE WALL WITHIN LIMITS OF INLET ±12'

REMOVE DRIVEWAY/SIDEWALK/CURB TO THIS JOINT



STORM SEWER MANHOLE TO BE REPLACED, SEE DETAIL C7.0

MAILBOX TO BE MAINTAINED ON  
TEMPORARY STAND OUTSIDE WORK AREA,  
MAILBOX TO BE RETURNED TO ORIGINAL  
POSITION AFTER CONSTRUCTION  
DEMO SIDEWALK AND CURB TO THIS JOINT

#### NOTES:

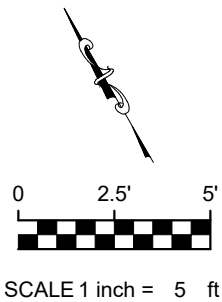
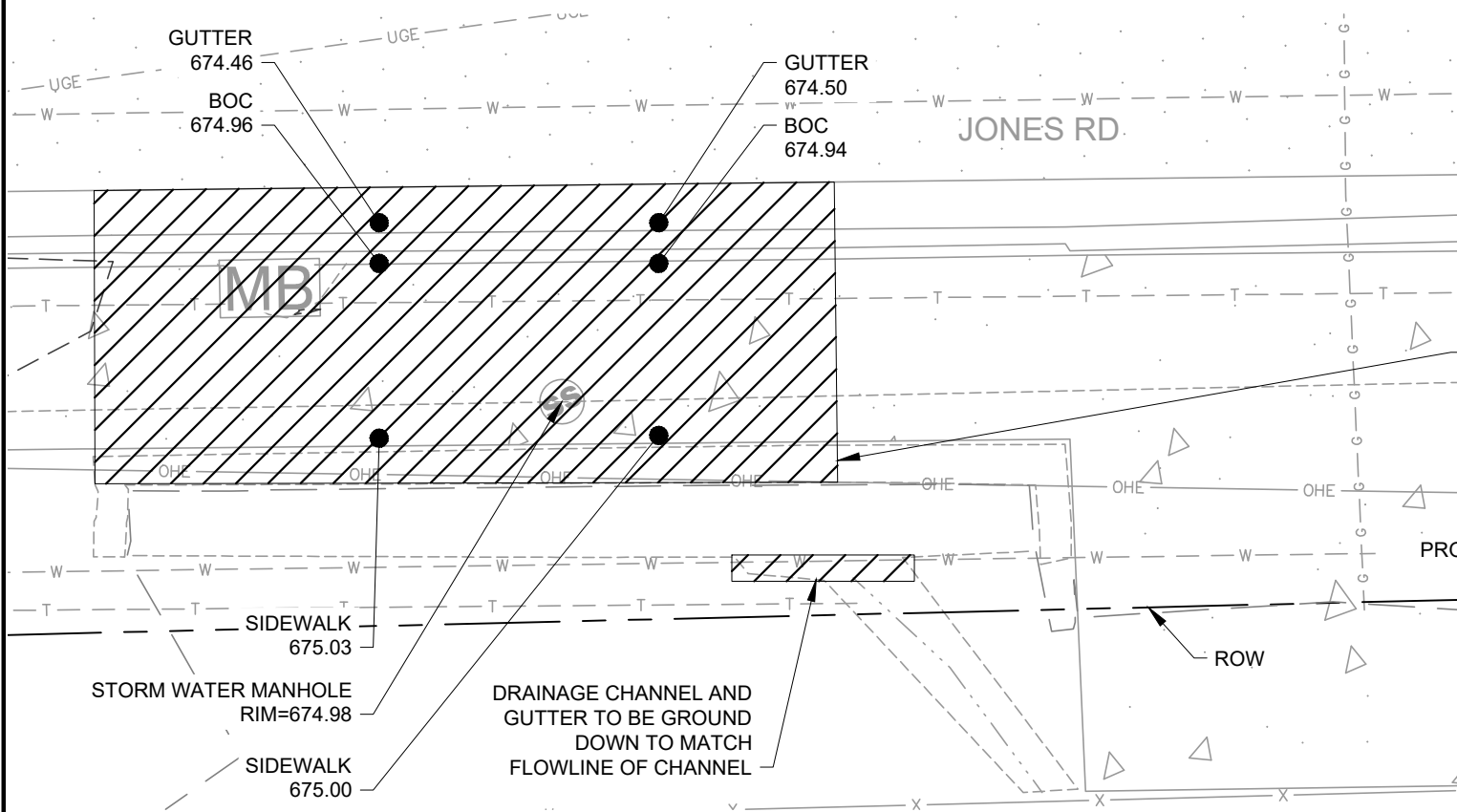
- ALL DEMO JOINTS SHALL BE SAWCUT TO  
ENSURE SMOOTH TIE IN FOR PROPOSED WORK.

#### NOTES:

- CONTRACTOR TO COORDINATE DRIVEWAY  
CLOSURE WITH LAND OWNER.

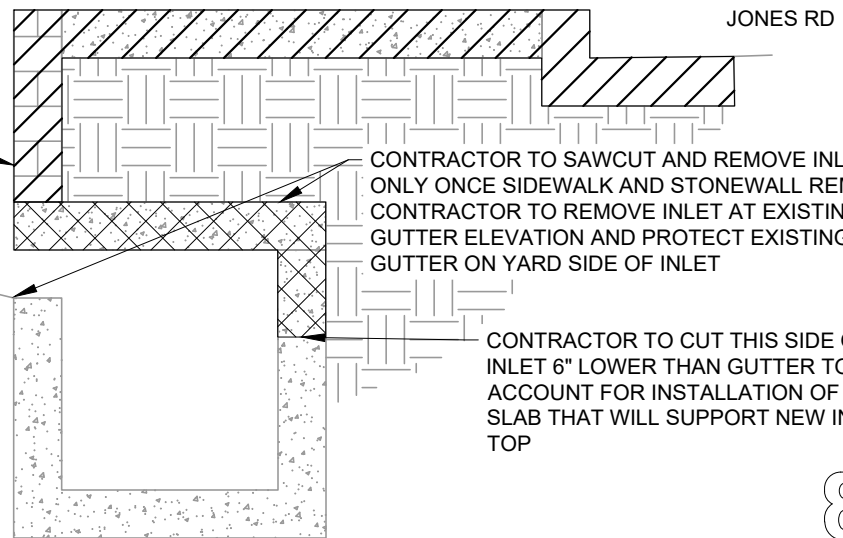
#### LEGEND:

AREA TO BE REMOVED -



REMOVE STONE WALL,  
ONLY INLET TO REMAIN

PROTECT EXISTING GUTTER



CONTRACTOR TO SAWCUT AND REMOVE INLET TOP  
ONLY ONCE SIDEWALK AND STONEWALL REMOVED.  
CONTRACTOR TO REMOVE INLET AT EXISTING  
GUTTER ELEVATION AND PROTECT EXISTING  
GUTTER ON YARD SIDE OF INLET

CONTRACTOR TO CUT THIS SIDE OF  
INLET 6" LOWER THAN GUTTER TO  
ACCOUNT FOR INSTALLATION OF INLET  
SLAB THAT WILL SUPPORT NEW INLET  
TOP

SECTION VIEW  
SCALE:NTS



APPROVAL	NO.	DATE
REVISION	NO.	DATE

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**JONES ROAD ENLARGED DEMOLITION**  
**PLAN MIDDLE DRIVEWAY**  
**2021-2022 CIP PROJECTS**  
**CITY OF SUNSET VALLEY, TEXAS**

FILE: C4.0 SITE PLAN.dwg
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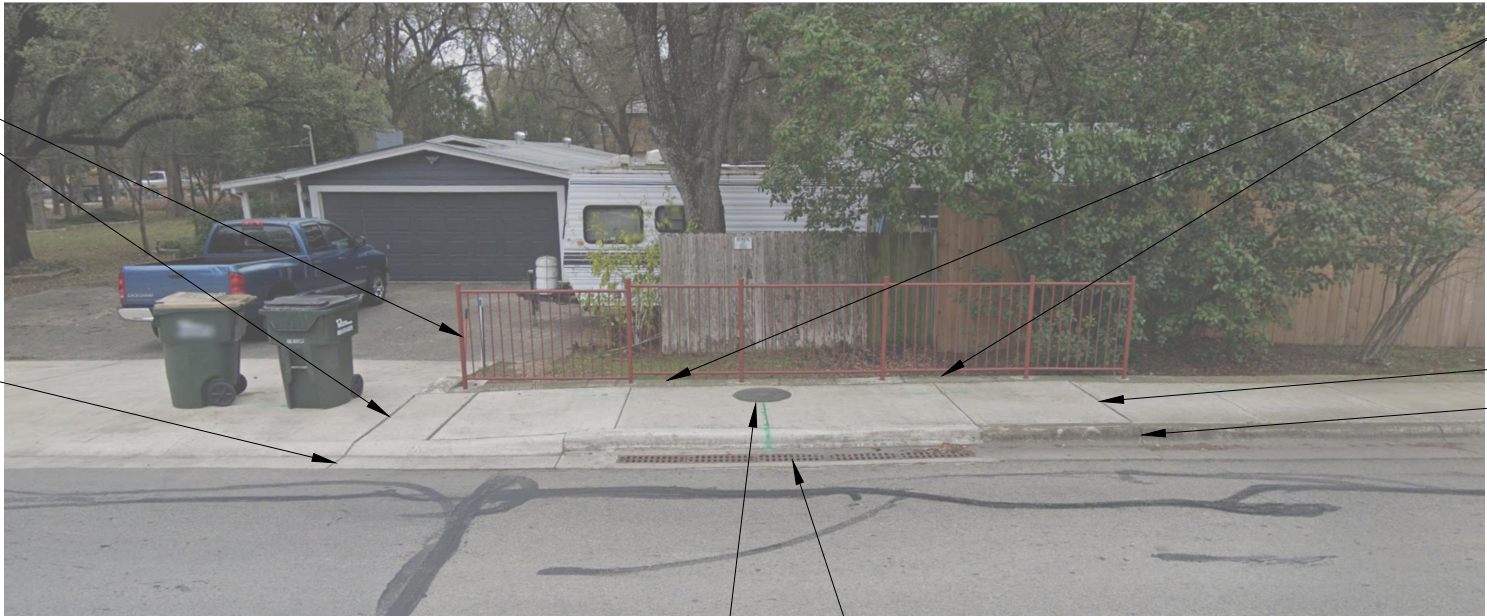
**SHEET**  
**C1.2**



Date: Jan 12, 2023, 9:02am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\105 - Jones Rd and Sunset Trail PER - Task Order No. 3\CAD\C4.0 SITE PLAN.dwg

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

DEMO CURB TO THIS JOINT



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

DEMO SIDEWALK TO THIS JOINT

DEMO CURB TO THIS JOINT

STORM SEWER MANHOLE TO BE REPLACED, SEE DETAIL ON DRAWING C7.0

REMOVE GRATE INLET STRUCTURE

**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



SCALE 1 inch = 5 ft

REMOVE STONE WALL,  
ONLY INLET TO REMAIN

PROTECT EXISTING GUTTER

SIDEWALK  
674.04  
SIDEWALK  
674.21

REMOVE RAILING, CUT AT BASE OF  
POSTS, CONTRACTOR TO REINSTALL  
USING ANCHOR BRACKETS AND  
WELDING RAILING TO BRACKETS

CONTRACTOR TO SAWCUT AND REMOVE  
INLET TOP ONLY ONCE SIDEWALK AND  
STONEWALL REMOVED. CONTRACTOR  
TO REMOVE INLET AT EXISTING GUTTER  
ELEVATION AND PROTECT EXISTING  
GUTTER ON YARD SIDE OF INLET

CONTRACTOR TO CUT THIS SIDE OF  
INLET 6" LOWER THAN GUTTER TO  
ACCOUNT FOR INSTALLATION OF INLET  
SLAB THAT WILL SUPPORT NEW INLET  
TOP

**SECTION VIEW**  
SCALE:NTS



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

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

**SHEET**

**C1.3**

APPROVAL

REVISION

NO.

DATE

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STATE OF TEXAS

107381

PROFESSIONAL ENGINEER

01/13/2023

Freeland+Turk

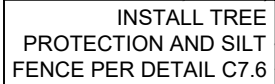
ENGINEERING GROUP

172 CREEKSIDE PARK RD. STE 115

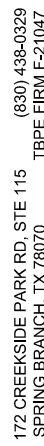
SPRING BRANCH, TX 78070

(830) 438-0329

TBPE FIRM F-21047



<b>TAG NO.</b>	<b>DESCRIPTION</b>
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



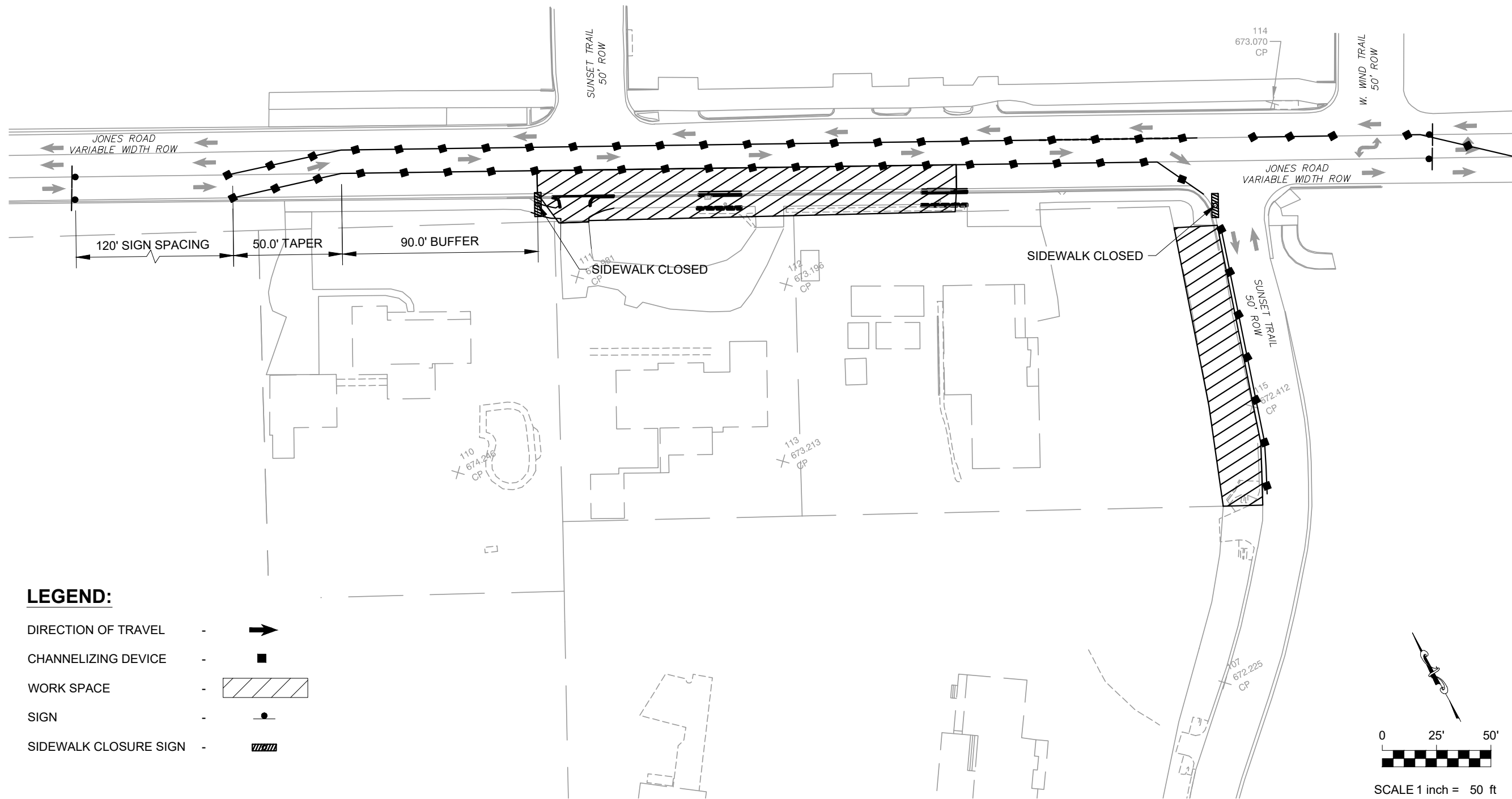
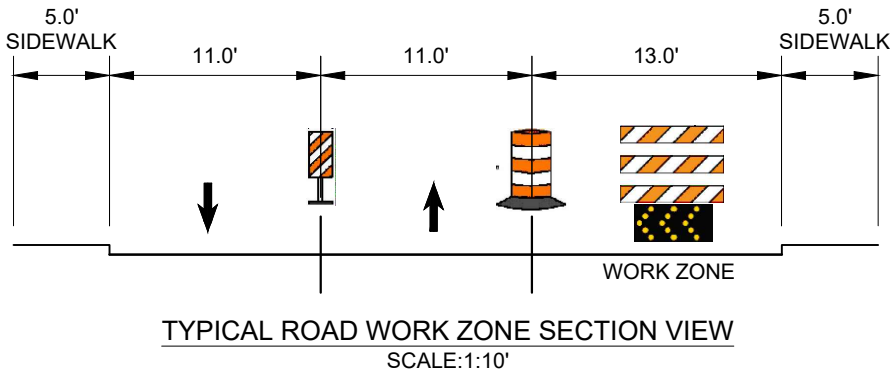
## CITY OF SUNSET VALLEY, TEXAS

## C1.4

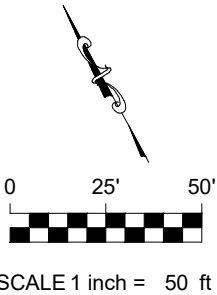


Date: Jan 12, 2023, 9:02am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\105 - Jones Rd and Sunset Trail PER - Task Order No. 3\CAD\C3.0 TRAFFIC CONTROL.dwg

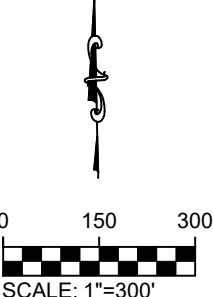
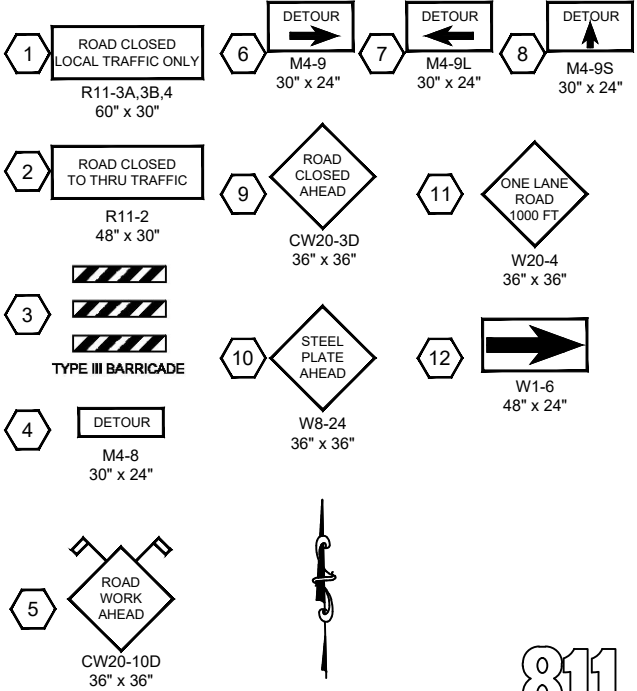
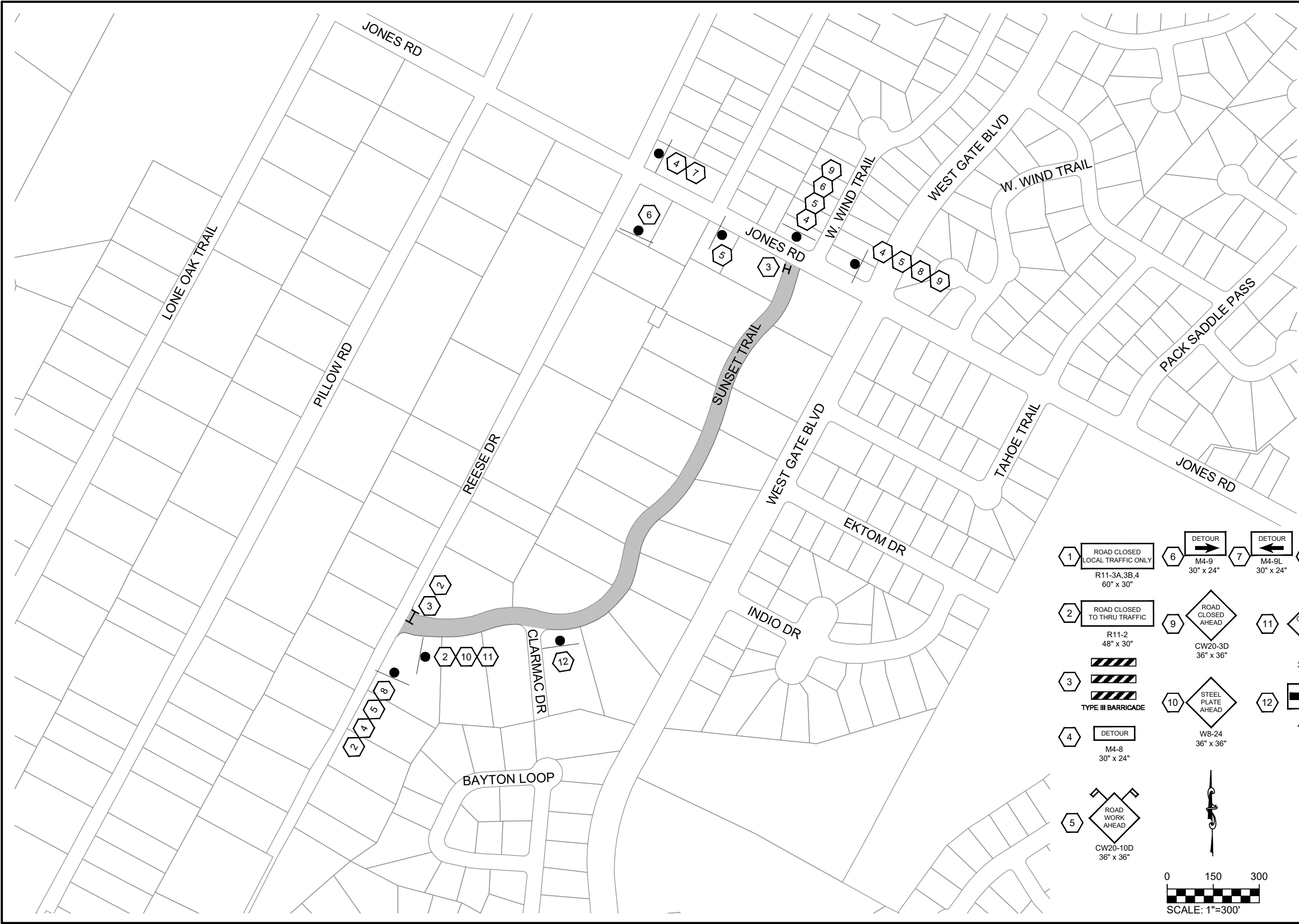
- NOTES:
- SEE TRAFFIC CONTROL DETAILS ON DRAWING C3.1.
  - USE TXDOT TCP (1-1B) DETAIL WITH ADDITIONAL CHANNELIZING DEVICES TO SEPARATE TRAFFIC LANES.



- LEGEND:**
- DIRECTION OF TRAVEL -
  - CHANNELIZING DEVICE -
  - WORK SPACE -
  - SIGN -
  - SIDEWALK CLOSURE SIGN -



<b>Freeland &amp; Turk</b> ENGINEERING GROUP	
172 CREEKSIDE PARK RD, STE 115 SPRING BRANCH, TX 78070 (830) 438-0329 TBPE FIRM F-21047	
<b>JONES ROAD TRAFFIC CONTROL PLAN</b> <b>2021-2022 CIP PROJECTS</b> <b>CITY OF SUNSET VALLEY, TEXAS</b>	
PLOTING SCALE: AS SHOWN FILE: C3.0 TRAFFIC CONTROL.dwg DRAWN BY: BAM DESIGNED BY: BAM REVIEWED BY: GF/TT PROJECT NO.: 120-108	
<b>SHEET</b> <b>C3.0</b>	



DATE	NO.	REVISION	APPROVAL



01/13/2023



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

SUNSET TRAIL TRAFFIC CONTROL PLAN

2021-2022 CIP PROJECTS

CITY OF SUNSET VALLEY, TEXAS

PLOTTING SCALE: AS SHOWN

FILE: EXISTING CONDITIONS.dwg

DRAWN BY: BAM

DESIGNED BY: BAM

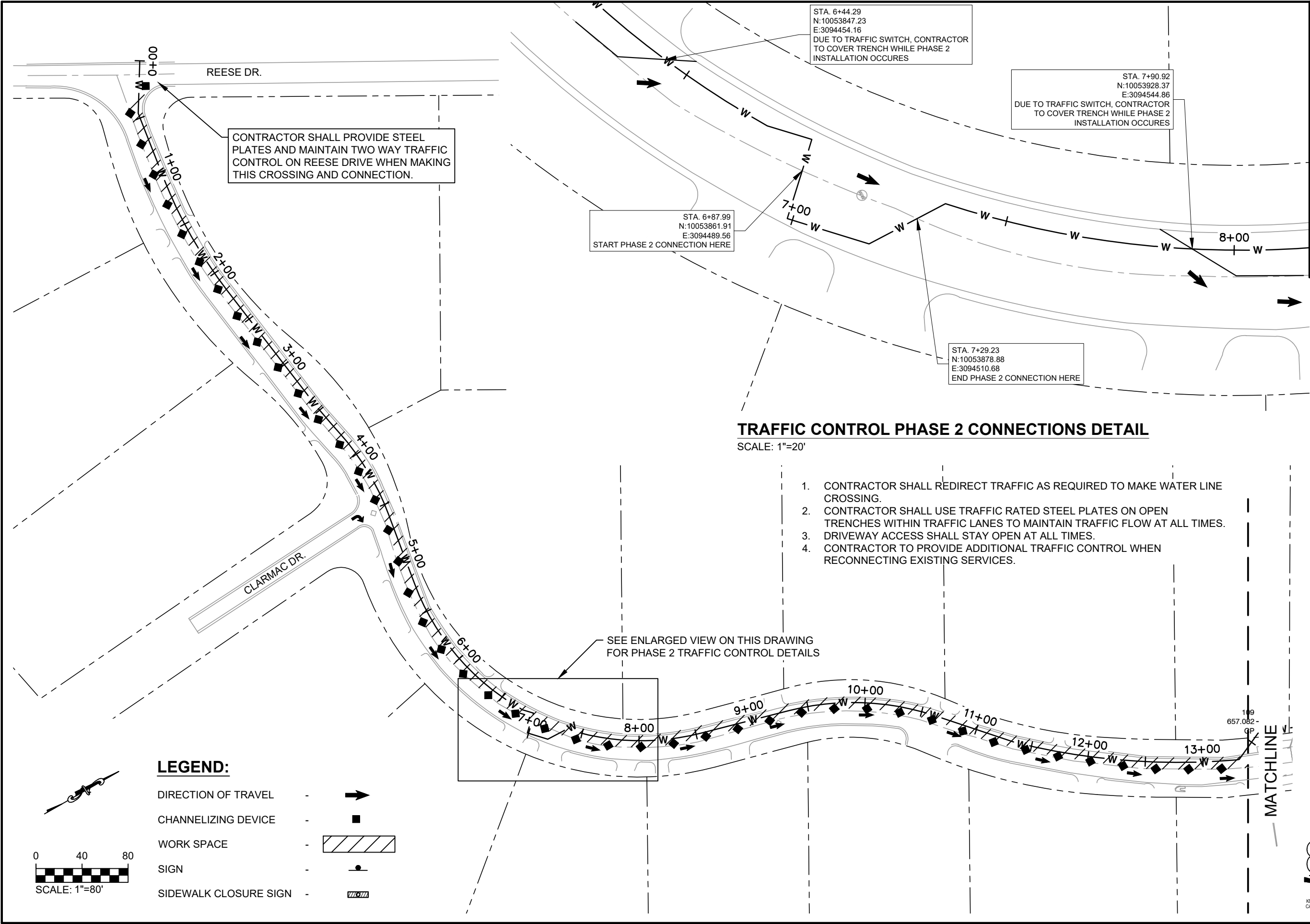
REVIEWED BY: GF/TT

PROJECT NO.: 120-108

SHEET

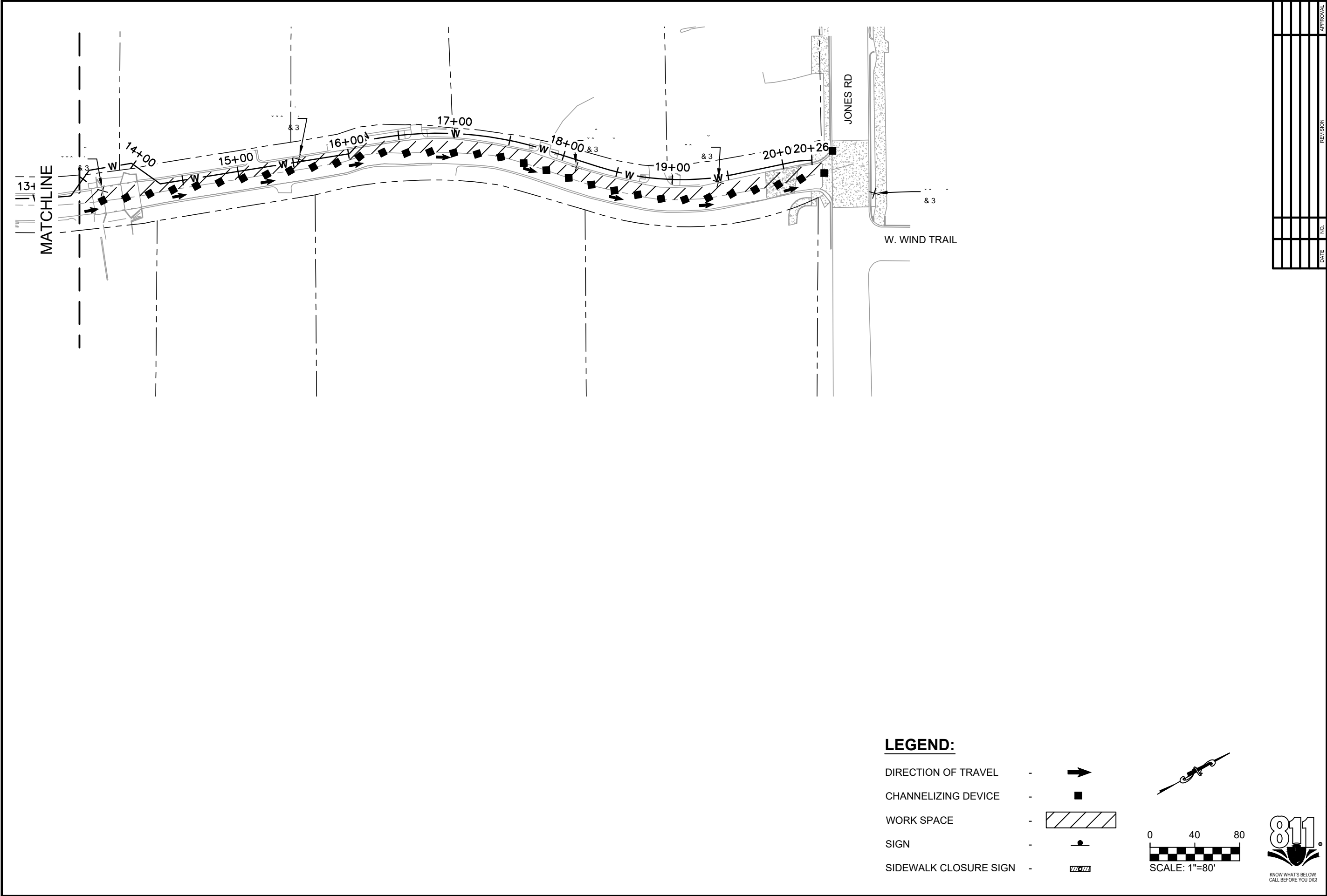
C3.1

Date: Jan 12, 2023, 9:03am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\108 - task order 10 - sunset trail and lone oak trail improvements\CAD\EXISTING CONDITIONS.dwg



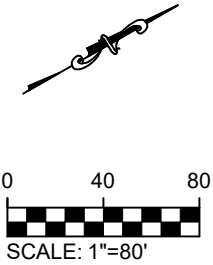
<b>Freeland+Turk ENGINEERING GROUP</b>	
172 CREEKSIDE PARK RD. STE 115 (830) 438-0329 SPRING BRANCH, TX 78070 TBPE FIRM F-21047	
<b>SUNSET TRAIL DETAILED TRAFFIC CONTROL PLAN 1</b>	
<b>2021-2022 CIP PROJECTS</b>	
<b>CITY OF SUNSET VALLEY, TEXAS</b>	
PLOTTING SCALE: AS SHOWN	FILE: EXISTING CONDITIONS.dwg
DRAWN BY: BAM	DESIGNED BY: BAM
REVIEWED BY: GF/TT	PROJECT NO.: 120-108
<b>SHEET</b>	
<b>C3.2</b>	





**LEGEND:**

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



DATE	NO.	REVISION	APPROVAL

FILE: EXISTING CONDITIONS.dwg

DRAWN BY: BAM

DESIGNED BY: BAM

REVIEWED BY: GF/TT

PROJECT NO.: 120-108

SUNSET TRAIL DETAILED TRAFFIC CONTROL

PLAN 2

2021-2022 CIP PROJECTS

CITY OF SUNSET VALLEY, TEXAS

SHEET

C3.3

172 CREEKSIDE PARK RD, STE 115

SPRING BRANCH, TX 78070

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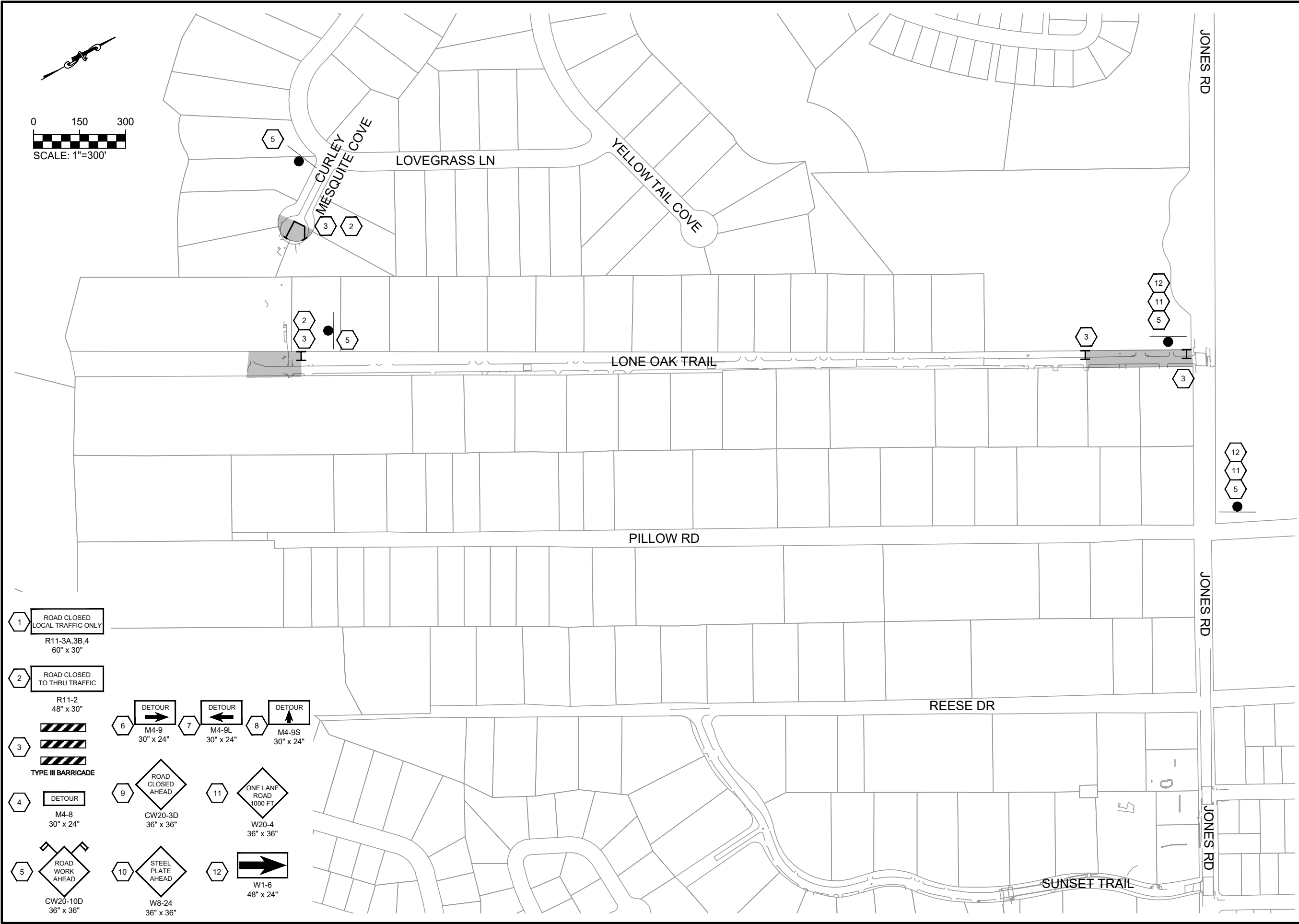
TBPE FIRM F-21047

DATE

NO.

REVISION

APPROVAL



1

ROAD CLOSED  
LOCAL TRAFFIC ONLY  
R11-3A,3B,4  
60" x 30"

2

ROAD CLOSED  
TO THRU TRAFFIC  
R11-2  
48" x 30"

3

TYPE III BARRICADE

4

DETOUR  
M4-8  
30" x 24"

5

ROAD WORK AHEAD  
CW20-10D  
36" x 36"

6

DETOUR  
M4-9  
30" x 24"

7

DETOUR  
M4-9L  
30" x 24"

8

DETOUR  
M4-9S  
30" x 24"

9

ROAD CLOSED  
AHEAD  
CW20-3D  
36" x 36"

10

STEEL  
PLATE  
AHEAD  
W8-24  
36" x 36"

11

ONE LANE  
ROAD  
1000 FT  
W20-4  
36" x 36"

12

W1-6  
48" x 24"



DATE

NO.

REVISION

APPROVAL

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

LONE OAK TRAIL TRAFFIC CONTROL PLAN

2021-2022 CIP PROJECTS

CITY OF SUNSET VALLEY, TEXAS

PLOTTING SCALE: AS SHOWN

FILE: EXISTING CONDITIONS.dwg

DRAWN BY: BAM

DESIGNED BY: BAM

REVIEWED BY: GF/TT

PROJECT NO.: 120-108

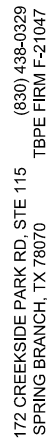
SHEET

C3.4

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.



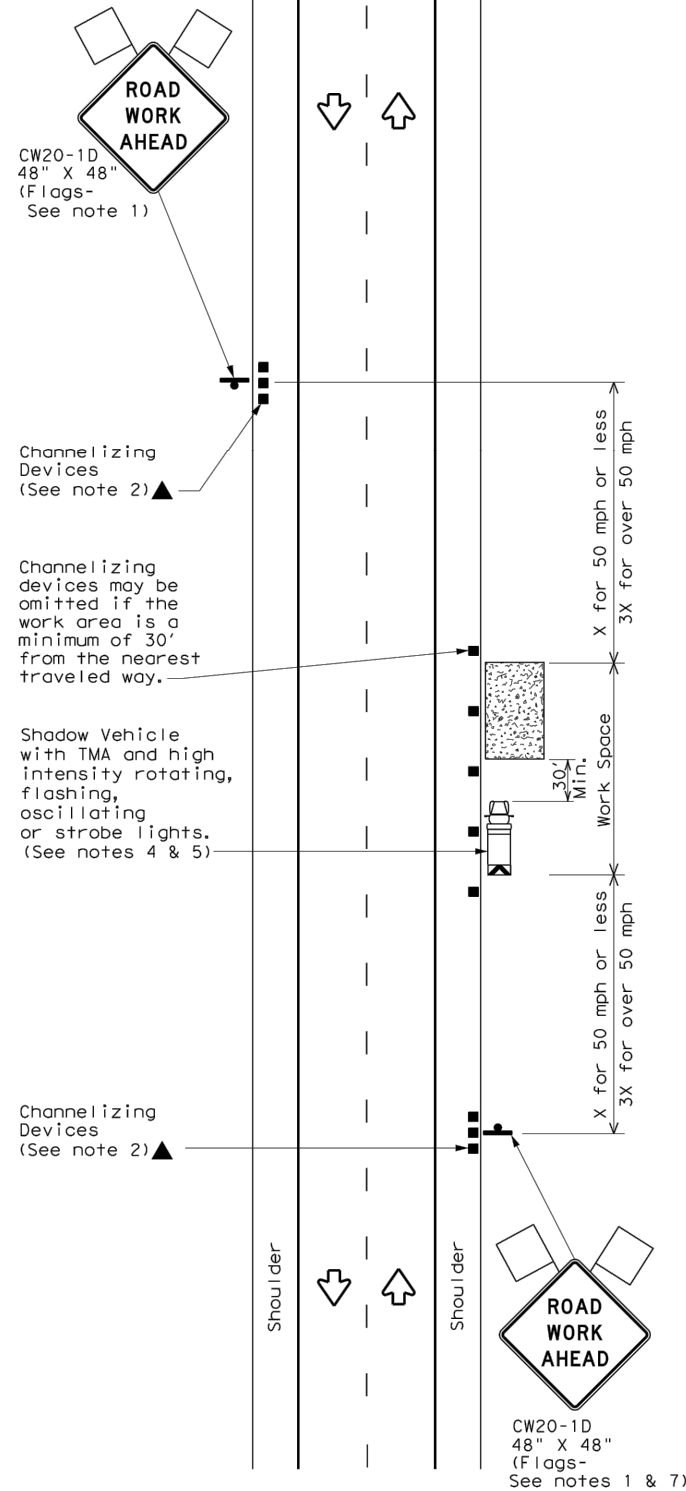
DATE	NO	REVISION	APPROVAL



## CITY OF SUNSET VALLEY, TEXAS

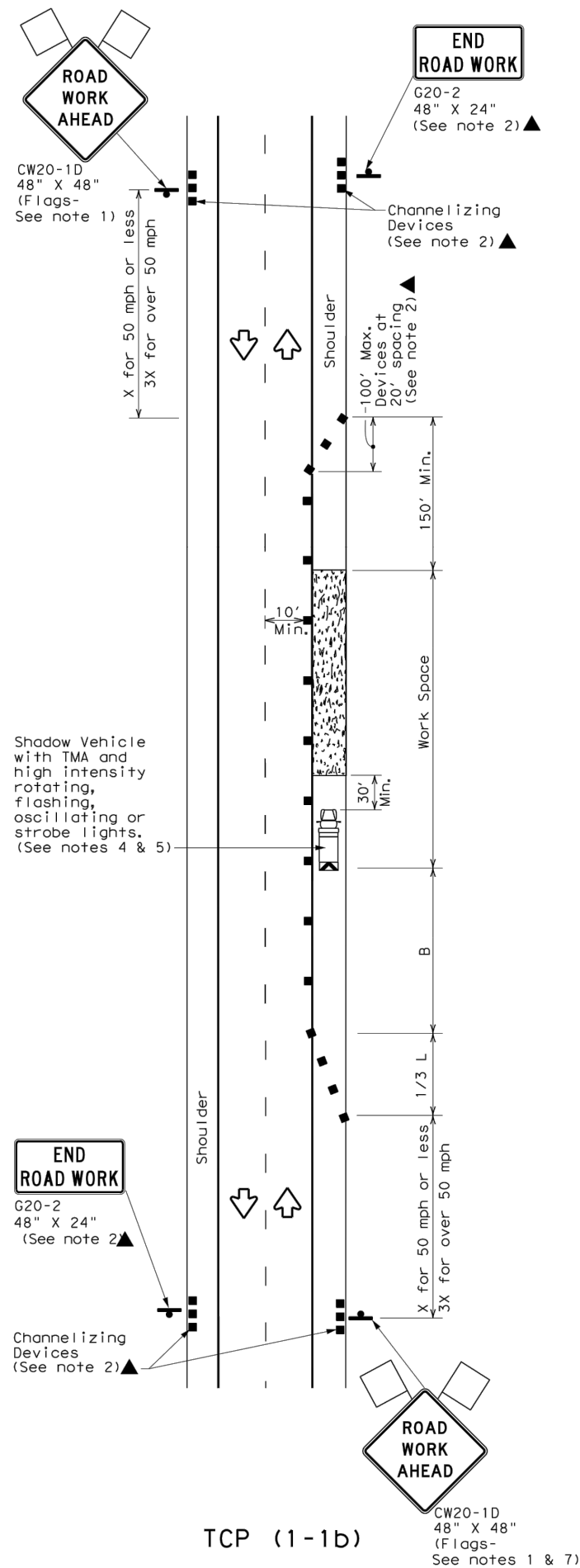
## C3.5

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 the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



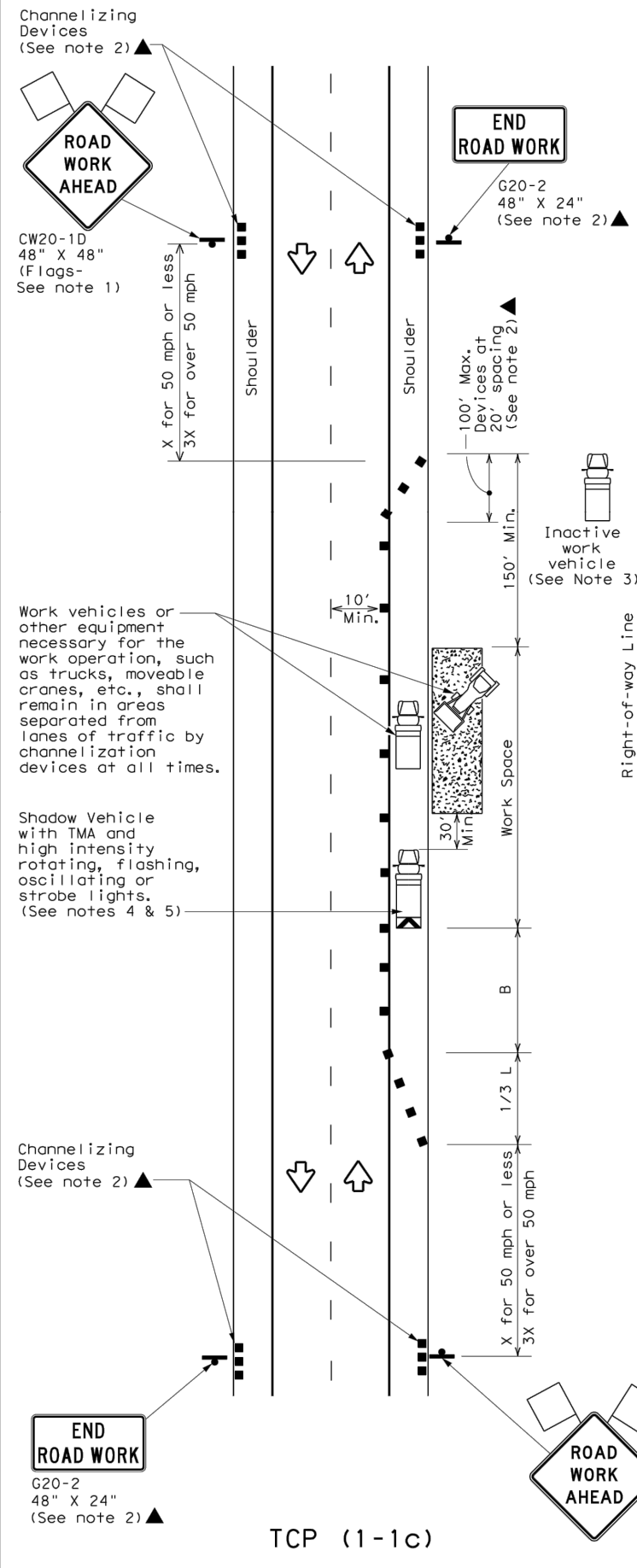
TCP (1-1a)

**WORK SPACE NEAR SHOULDER**  
Conventional Roads



TCP (1-1b)

**WORK SPACE ON SHOULDER**  
Conventional Roads



TCP (1-1c)

**WORK VEHICLES ON SHOULDER**  
Conventional Roads

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

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	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		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.



C3.6



**TRAFFIC CONTROL PLAN  
CONVENTIONAL ROAD  
SHOULDER WORK**

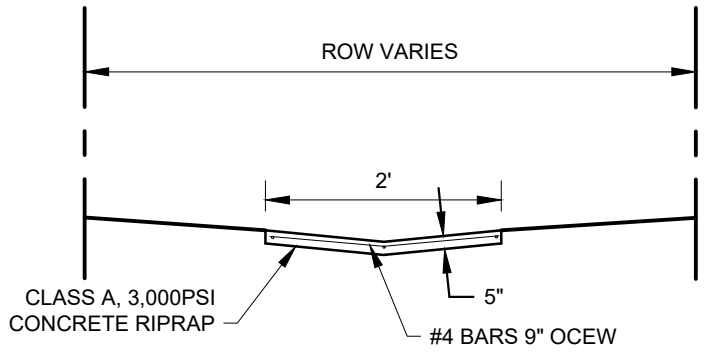
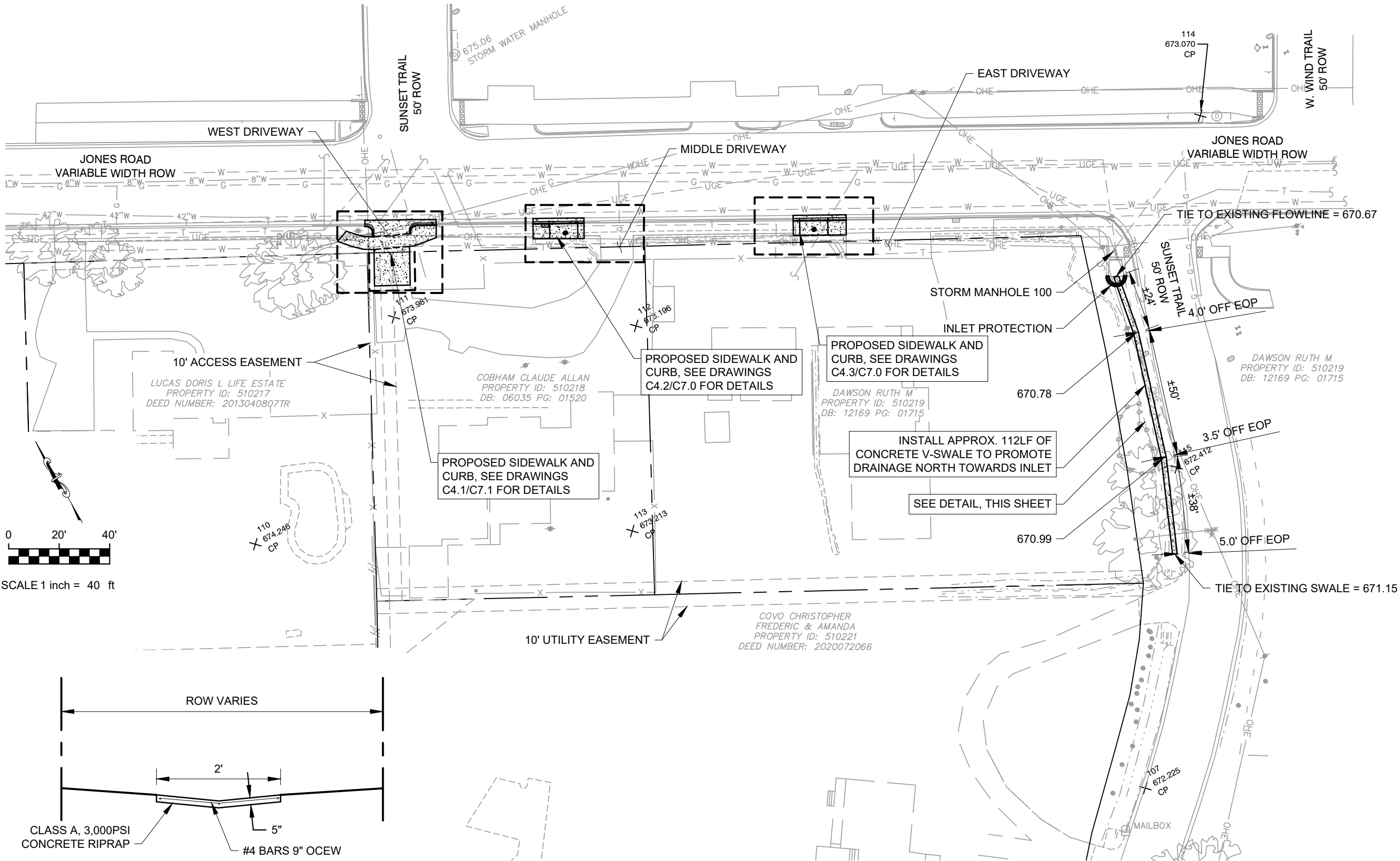
**TCP (1-1) - 18**

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.	

DATE:  
FILE:



Date: Jan 12, 2023, 9:04am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\105 - Jones Rd and Sunset Trail PER - Task Order No. 3\CAD\C4.0 SITE PLAN.dwg



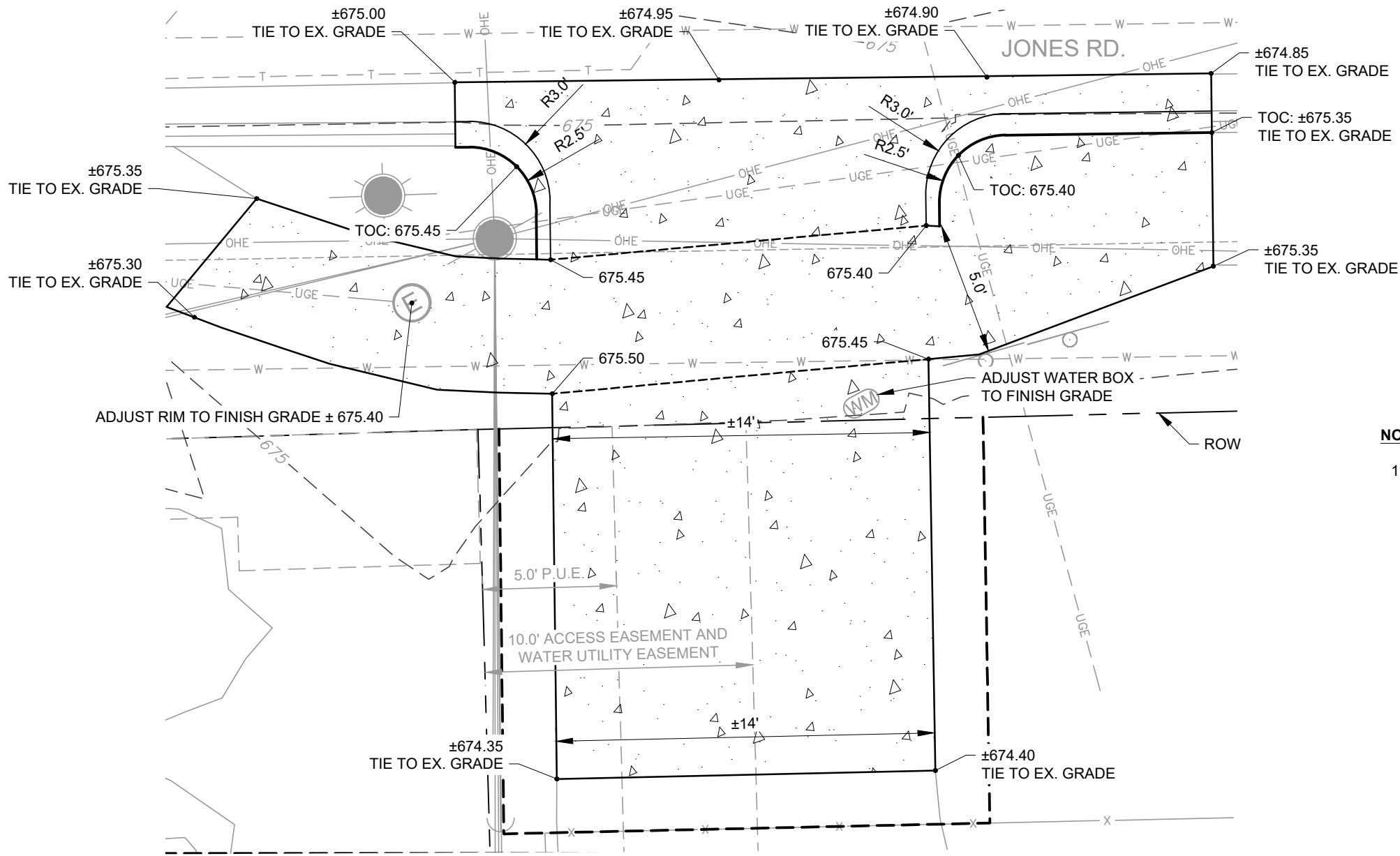
\*ALIGNMENT VARIES WITHIN ROW, SEE SITE PLAN FOR ALIGNMENT

1 CONCRETE V-SWALE  
NTS



<b>Freeland+Turk</b> ENGINEERING GROUP	
172 CREEKSIDE PARK RD. STE 115 SPRING BRANCH, TX 78070 (830) 438-0329 TBPE FIRM F-21047	
<b>JONES ROAD SITE AND GRADING PLAN</b> <b>2021-2022 CIP PROJECTS</b> <b>CITY OF SUNSET VALLEY, TEXAS</b>	
PLOTTING SCALE: AS SHOWN	FILE: C4.0 SITE PLAN.dwg
DRAWN BY: BAM	DESIGNED BY: BAM
REVIEWED BY: GF/TT	PROJECT NO.: 120-108
<b>SHEET</b> <b>C4.0</b>	

Date: Jan 12, 2023, 9:04am User ID: tbrya  
File: Z: \eng - prd\120 city of sunset valley\105 - Jones Rd and Sunset Trail PER - Task Order No. 3\CAD\C4.0 SITE PLAN.dwg



**NOTES:**

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



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

**SHEET**  
**C4.1**

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

**CITY OF SUNSET VALLEY, TEXAS**



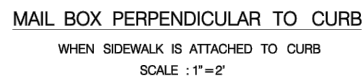
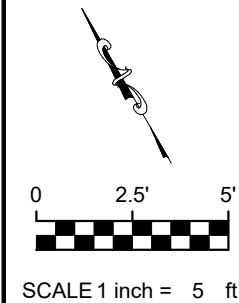
**Freeland+Turk  
ENGINEERING GROUP**

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SPRING BRANCH, TX 78070

(830) 438-0329  
TBPE FIRM F-21047



Date: Jan 12, 2023, 9:04am User ID: tbrya  
File: Z: \eng - prd\120 city of sunset valley

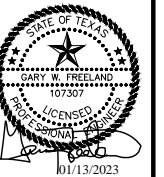


NOTES:

- 
- #4 REBAR, 6" OCEW
- CLASS A 3000 PSI CONCRETE
- This diagram shows a cross-section of a concrete slab. The top layer is labeled "CLASS A 3000 PSI CONCRETE". Below this layer, there is a layer of "CLASS A 3000 PSI CONCRETE" with a pattern of small circles representing aggregate. The bottom layer is labeled "#4 REBAR, 6" OCEW". Arrows point from the labels to the corresponding parts of the diagram.

SECTION VIEW  
SCALE: NTS

Diagram illustrating a cross-section of a concrete slab on ground. The slab is 11'-2" wide and 29" thick. Two footings are shown, each with a "FLOW" arrow pointing upwards. A dashed line separates the slab from the ground below.



**Freeland & Turk**  
**ENGINEERING GROUP**

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SPRING BRANCH, TX 78070

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

CITY OF SUNBELT VALLEY, TEXAS

PLOTTING SCALE: AS SHOWN

FILE: C4.0 SITE PLAN.dwg

DRAWN BY: BAM

DESIGNED BY: BAM

REVIEWED BY: GF/TT

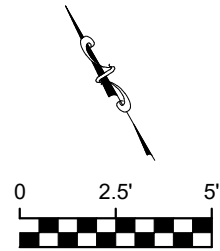
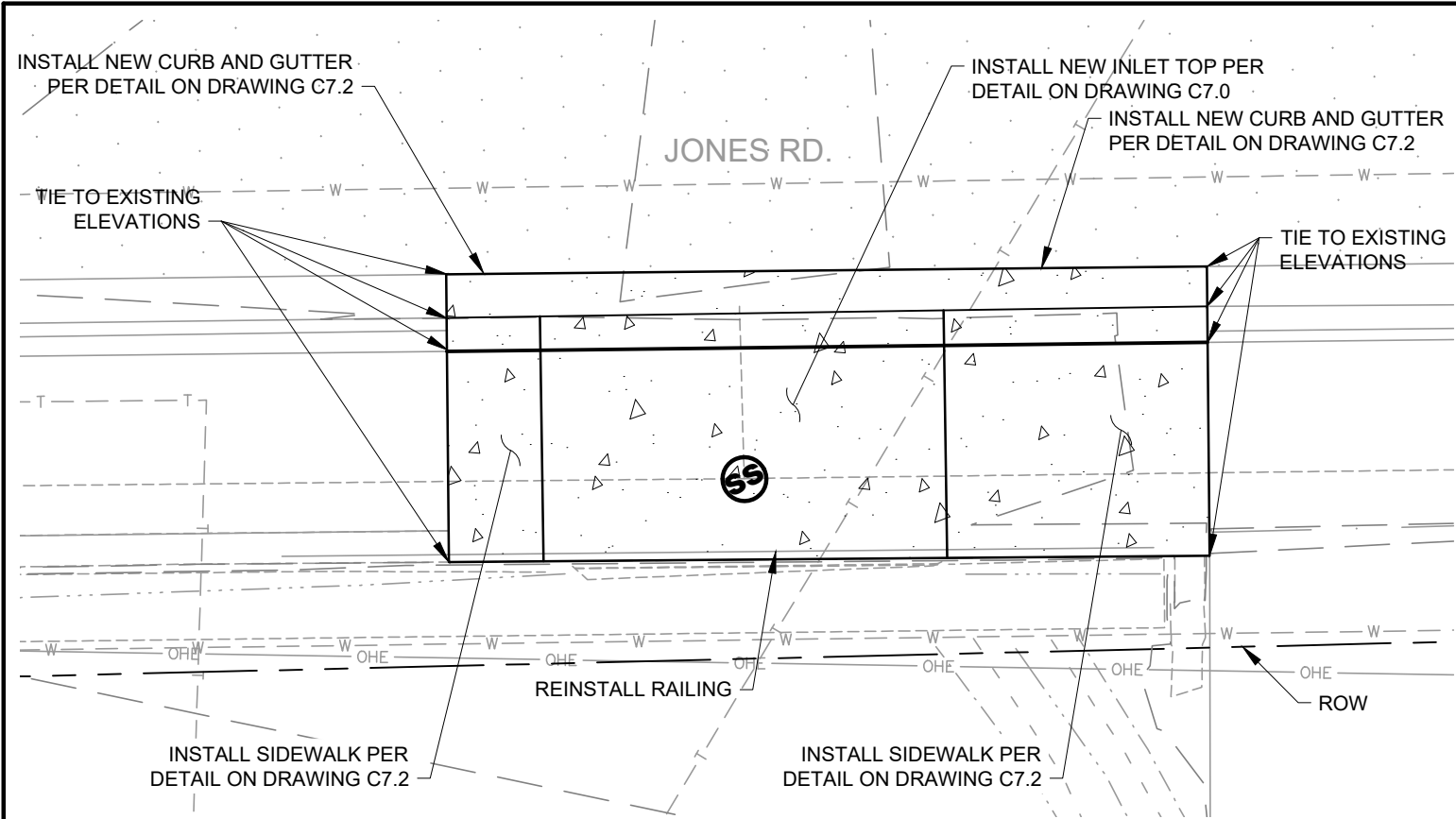
PROJECT NO.: 120-108

SHEET

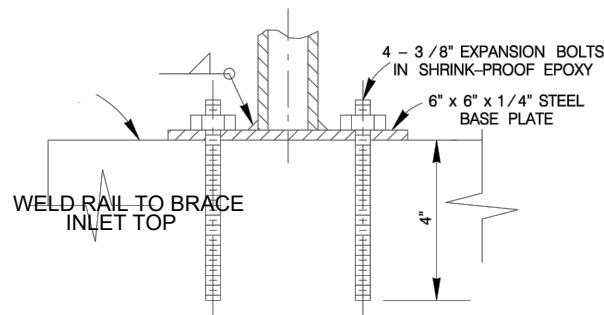
## C4.2



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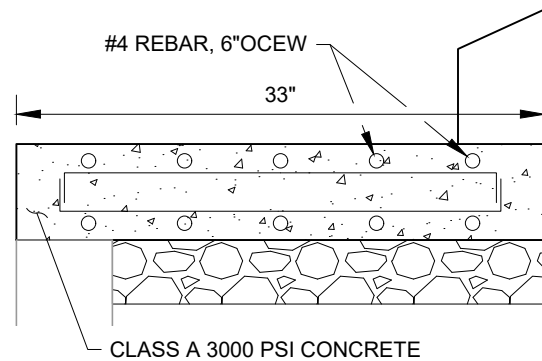
SCALE 1 inch = 5 ft



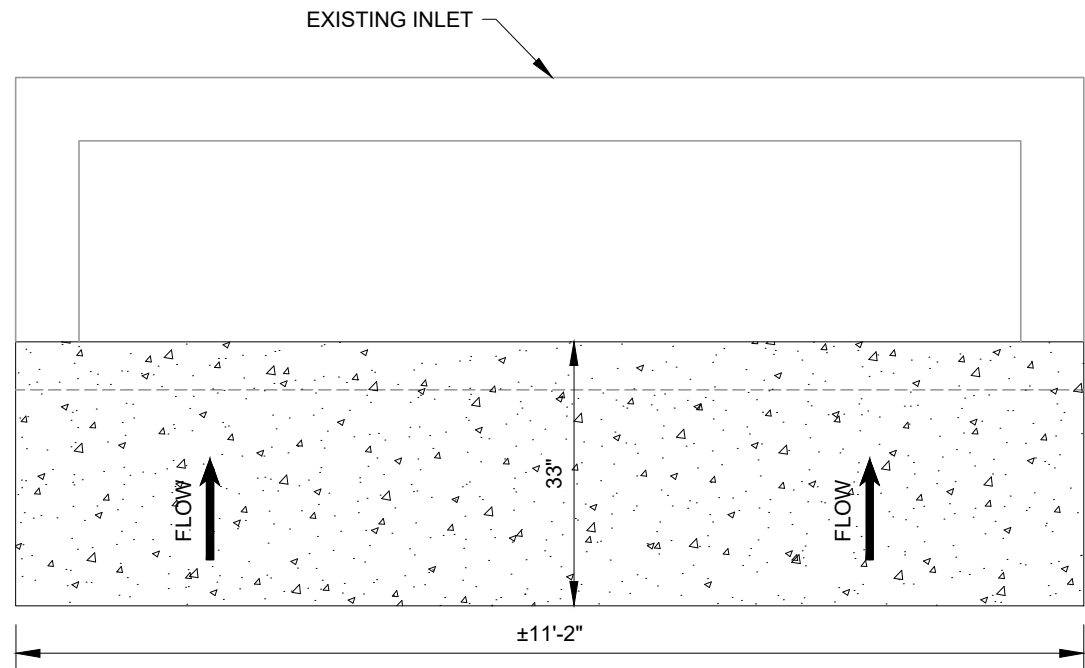
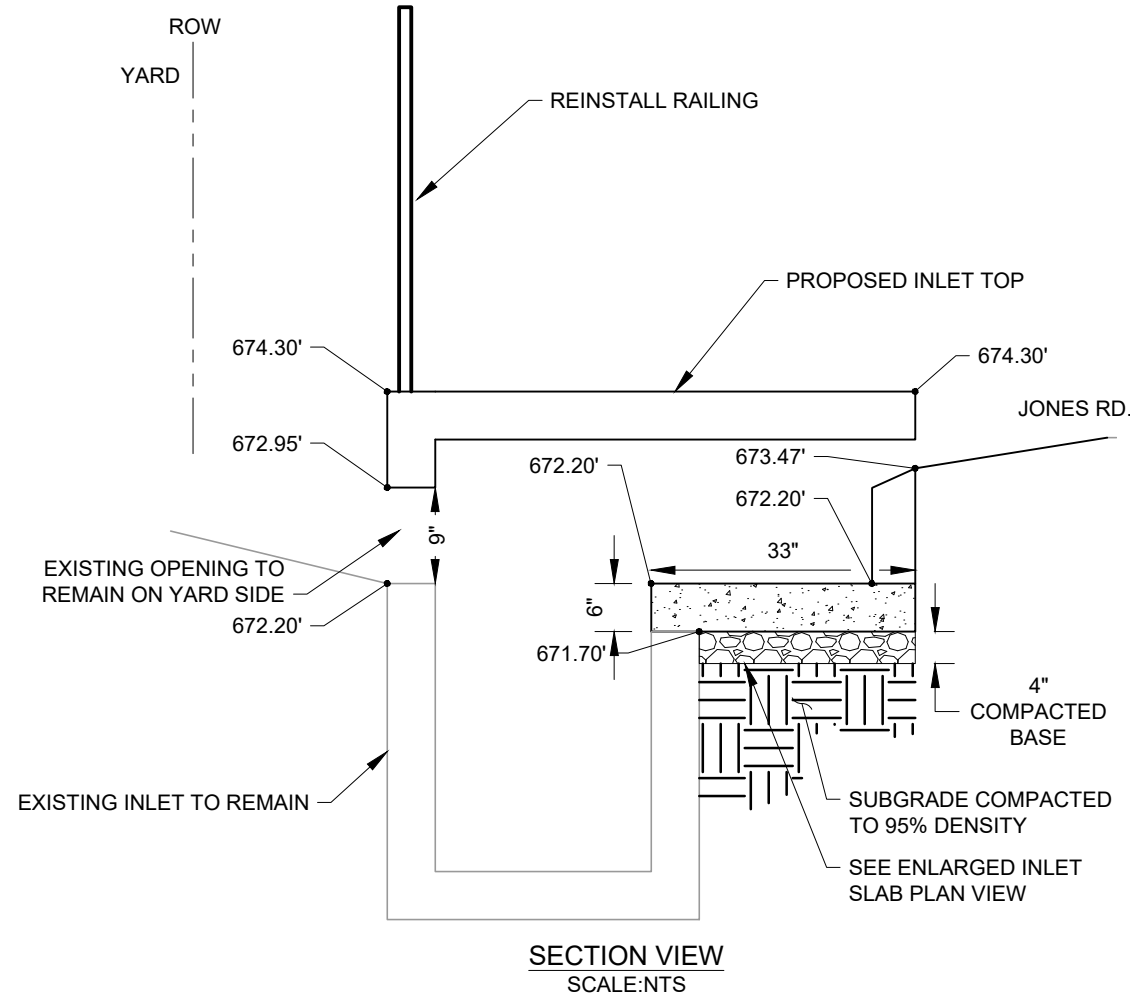
RAIL BRACE  
SCALE:NTS

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.



ENLARGED INLET SLAB SECTION VIEW  
SCALE:NTS



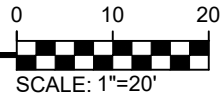
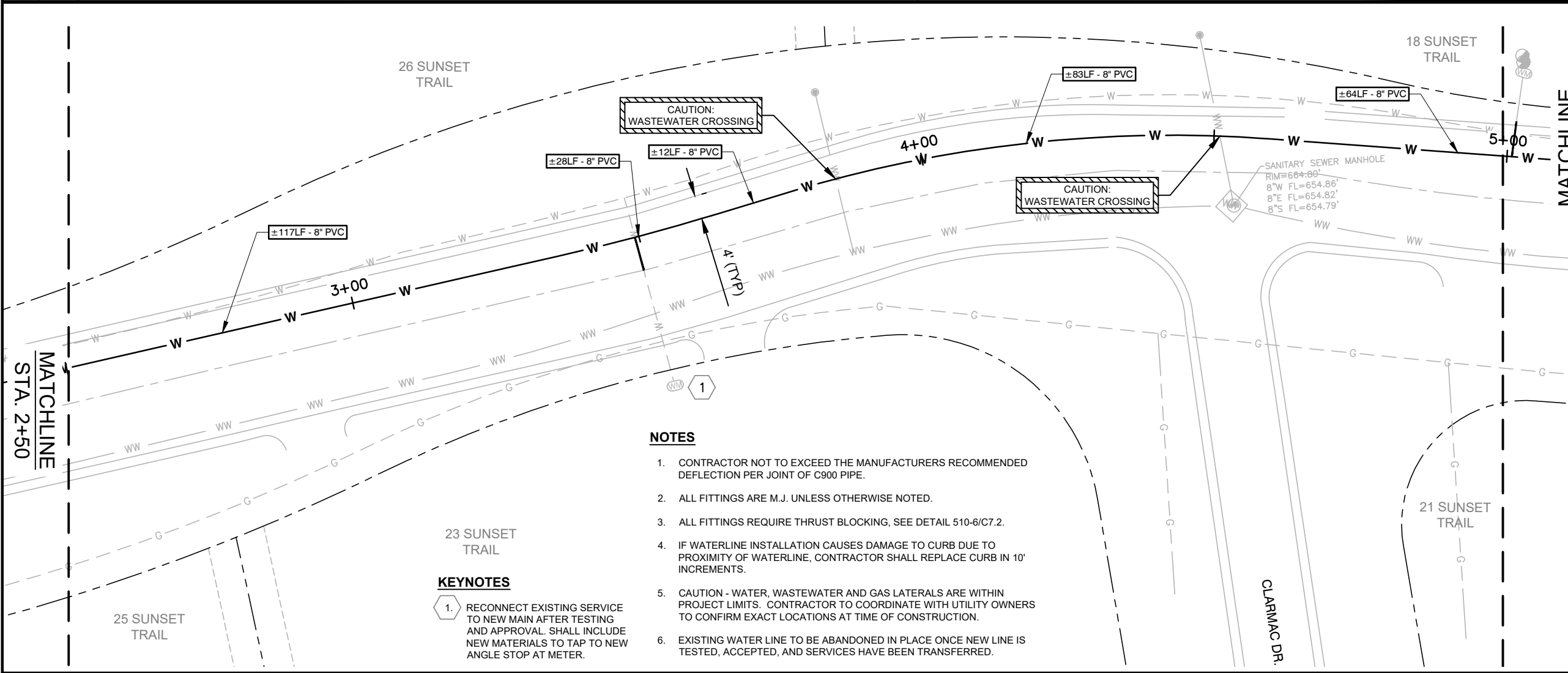
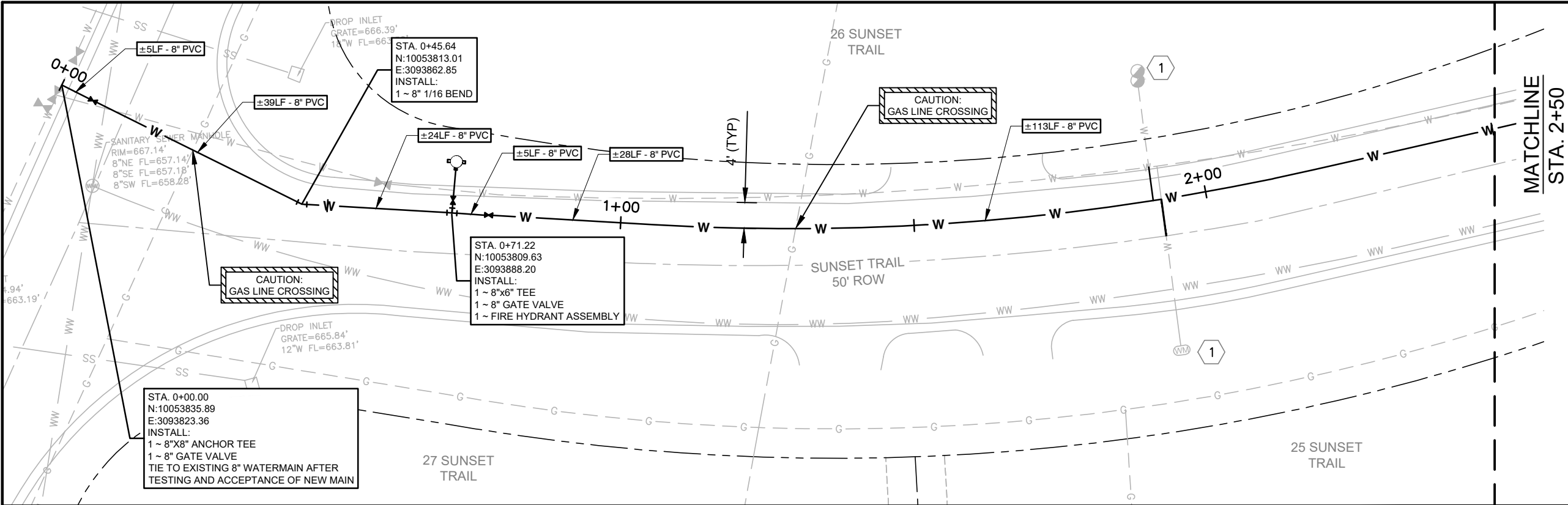
JONES ROAD ENLARGED SITE AND  
GRADING PLAN EAST DRIVEWAY  
2021-2022 CIP PROJECTS  
CITY OF SUNSET VALLEY, TEXAS

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

SHEET

C4.3

Date: Jan 12, 2023, 9:04am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\108 - task order 10 - sunset trail and lone oak trail improvements\CAD\C4.0 SITE PLAN.dwg



- NOTES**
1. CONTRACTOR NOT TO EXCEED THE MANUFACTURERS RECOMMENDED DEFLECTION PER JOINT OF C900 PIPE.
  2. ALL FITTINGS ARE M.J. UNLESS OTHERWISE NOTED.
  3. ALL FITTINGS REQUIRE THRUST BLOCKING, SEE DETAIL 510-6/C7.2.
  4. IF WATERLINE INSTALLATION CAUSES DAMAGE TO CURB DUE TO PROXIMITY OF WATERLINE, CONTRACTOR SHALL REPLACE CURB IN 10' INCREMENTS.
  5. CAUTION - WATER, WASTEWATER AND GAS LATERALS ARE WITHIN PROJECT LIMITS. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS TO CONFIRM EXACT LOCATIONS AT TIME OF CONSTRUCTION.
  6. EXISTING WATER LINE TO BE ABANDONED IN PLACE ONCE NEW LINE IS TESTED, ACCEPTED, AND SERVICES HAVE BEEN TRANSFERRED.

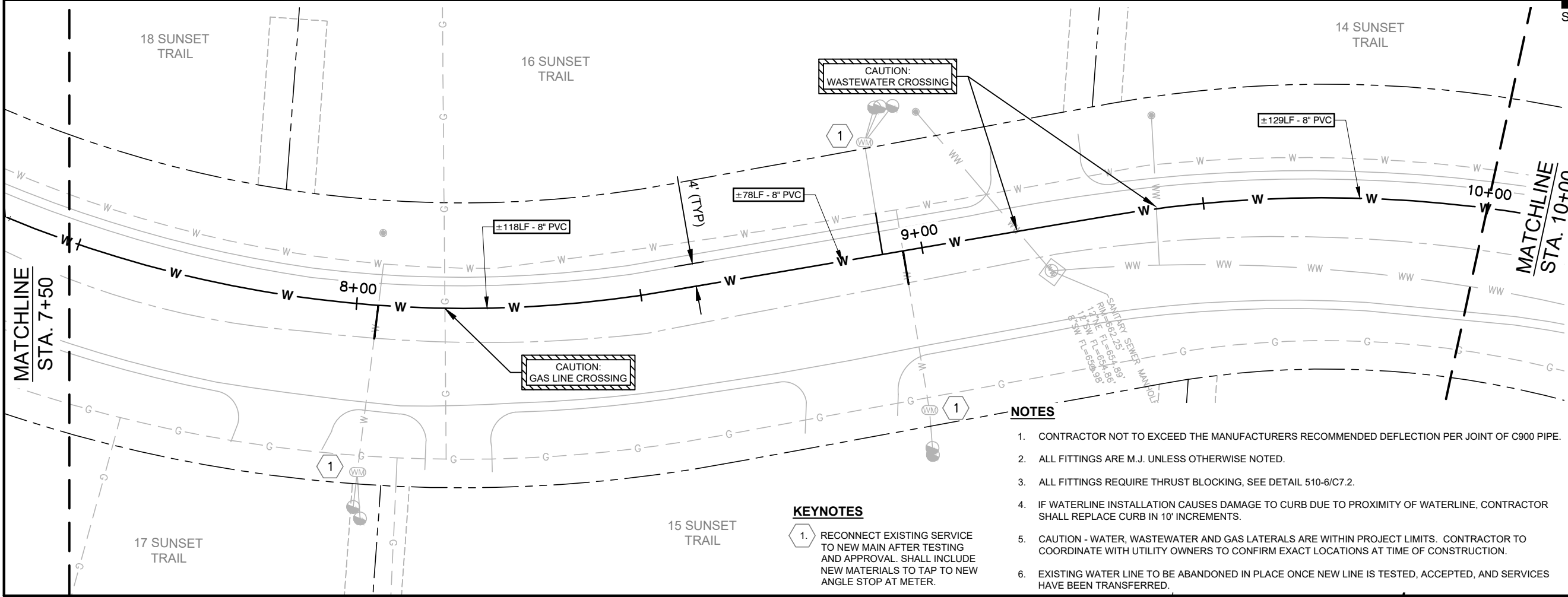
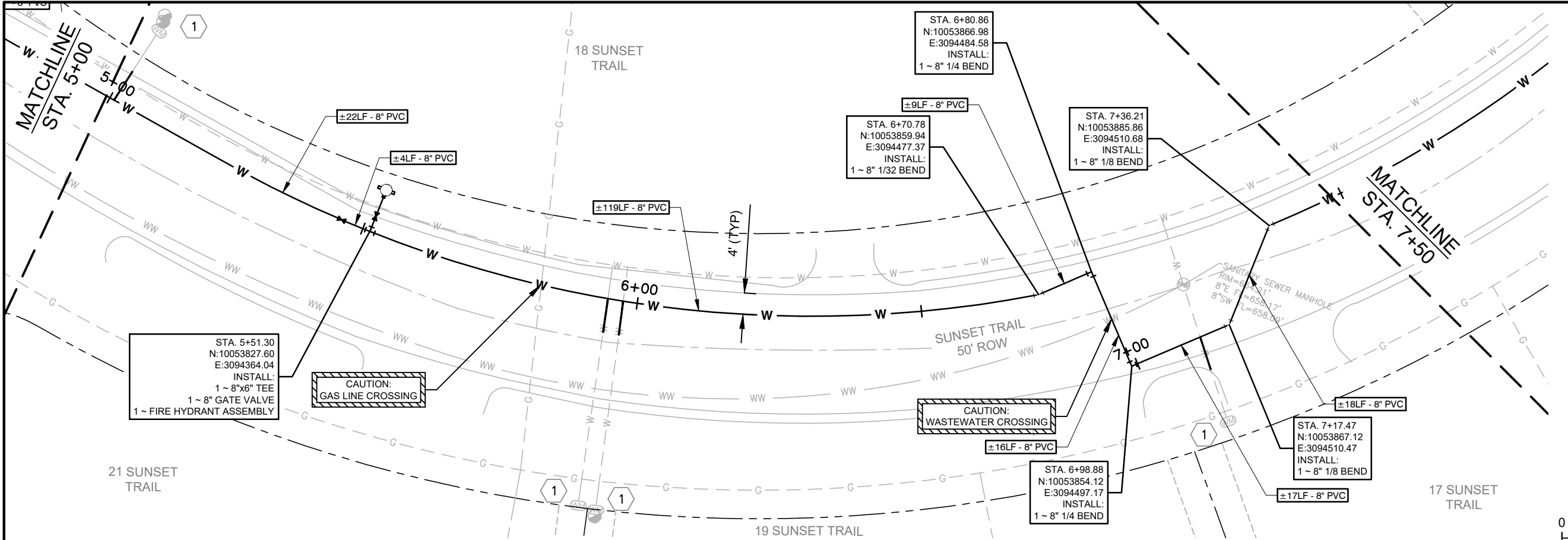
- KEYNOTES**
1. RECONNECT EXISTING SERVICE TO NEW MAIN AFTER TESTING AND APPROVAL. SHALL INCLUDE NEW MATERIALS TO TAP TO NEW ANGLE STOP AT METER.



<b>SUNSET TRAIL SITE PLAN STA. 0+00-5+00</b>		<b>2021-2022 CIP PROJECTS</b>		<b>CITY OF SUNSET VALLEY, TEXAS</b>	
PLOTING SCALE: AS SHOWN		FILE: C4.0 SITE PLAN.dwg		DRAWN BY: BAM	
DESIGNED BY: BAM		REVIEWED BY: GF/TT		PROJECT NO.: 120-108	
SHEET		<b>C4.4</b>			
Freeland+Turk ENGINEERING GROUP		172 CREEKSIDE PARK RD. STE 115 SPRING BRANCH, TX 78070		(830) 438-0329 TBPE FIRM F-21047	
STATE OF TEXAS LICENSED PROFESSIONAL ENGINEER 107380 01/13/2023					

Date: Jan 12, 2023, 9:05am User ID: tbrya

File: Z:\eng - prd\120 city of sunset valley\108 - task order 10 - sunset trail and lone oak trail improvements\CAD\C4.0 SITE PLAN.dwg



STATE OF TEXAS

SEAL

10/13/2023

Freeland+Turk

ENGINEERING GROUP

172 CREEKSIDE PARK RD, STE 115

SPRING BRANCH, TX 78070

(830) 438-0329

TBPE FIRM F-21047

SUNSET TRAIL SITE PLAN STA. 5+00-10+00

2021-2022 CIP PROJECTS

CITY OF SUNSET VALLEY, TEXAS

PLOTTING SCALE: AS SHOWN

FILE: C4.0 SITE PLAN.dwg

DRAWN BY: B.A.M.

DESIGNED BY: B.A.M.

REVIEWED BY: G.F.T.T.

PROJECT NO.: 120-108

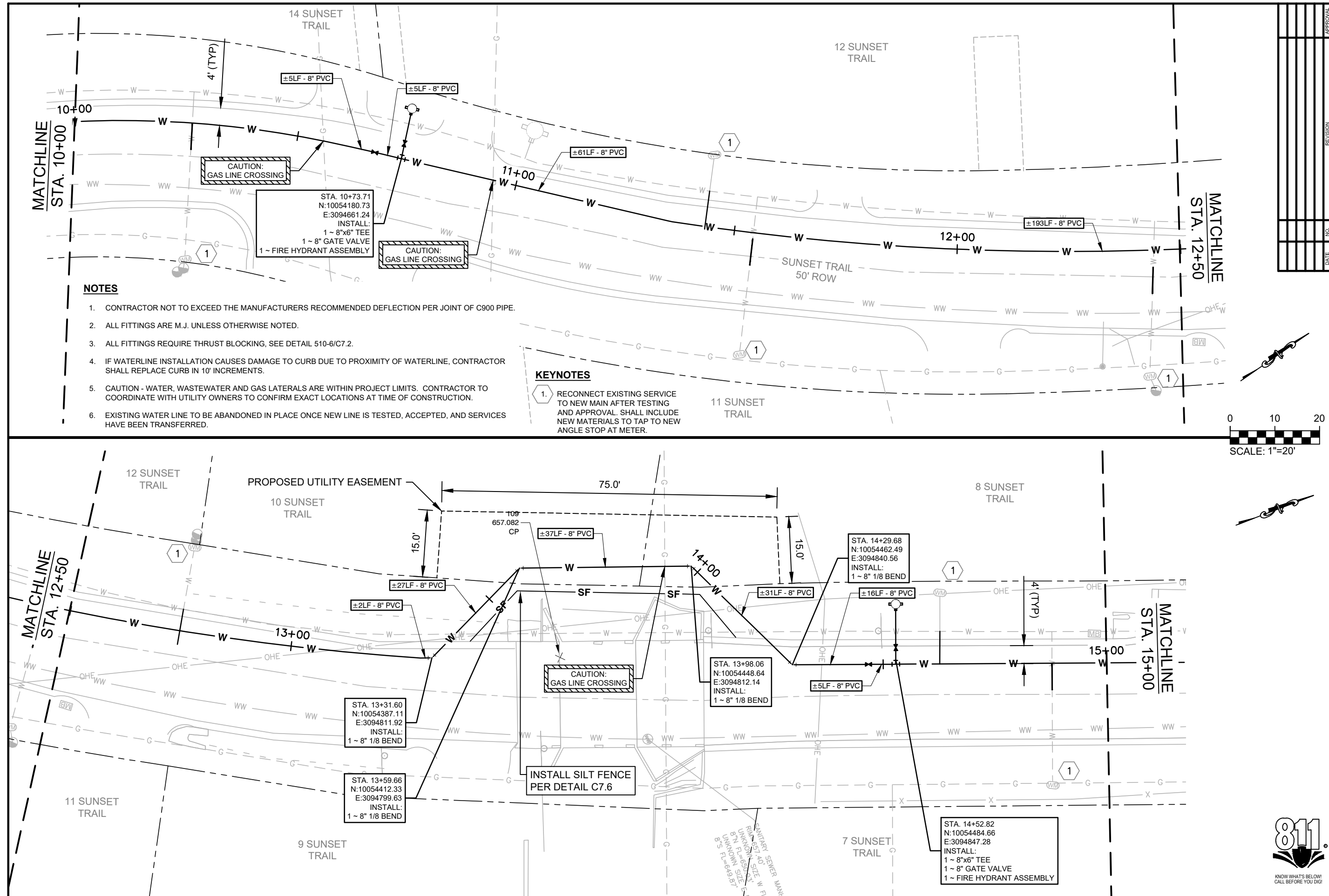
811

KNOW WHAT'S BELOW!  
CALL BEFORE YOU DIG!

SHEET

C4.5



[illegible]

**Freeland Turk**  
**ENGINEERING GROUP**

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

**SUNSET TRAIL SITE PLAN STA. 10+00-15+00**

## 2021-2022 CIP PROJECTS

CITY OF SUNSET VALLEY, TEXAS

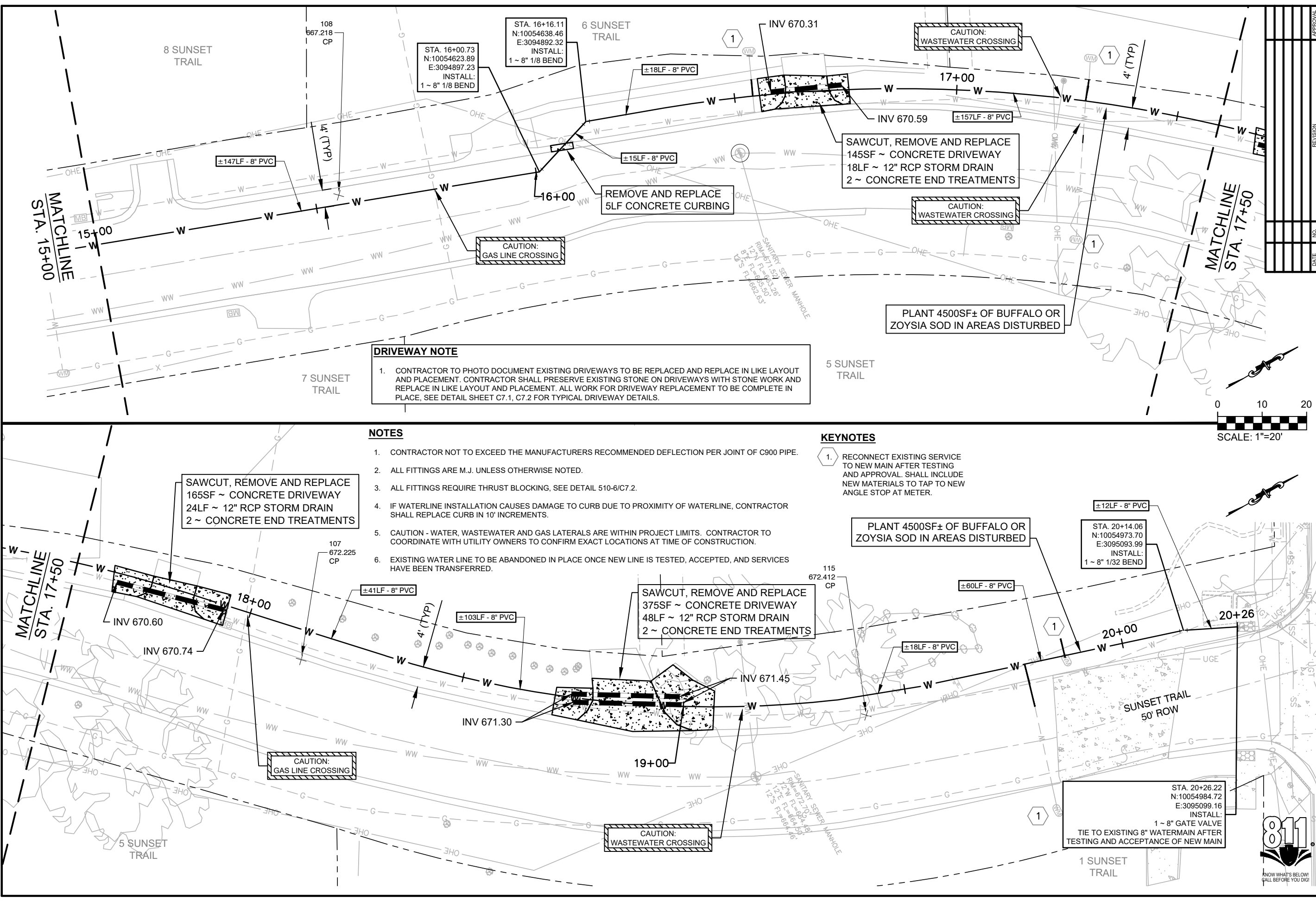
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FILE:C4.0 SITE PLAN.dwg
DRAWN BY: BAM
DESIGNED BY: BAM
REVIEWED BY: GF/TT
PROJECT NO.: 120-108

SHEET

## C4.6



Date: Jan 12, 2023, 9:05am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\108 - task order 10 - sunset trail and lone oak trail improvements\CAD\C4.0 SITE PLAN.dwg



**DRIVEWAY NOTE**

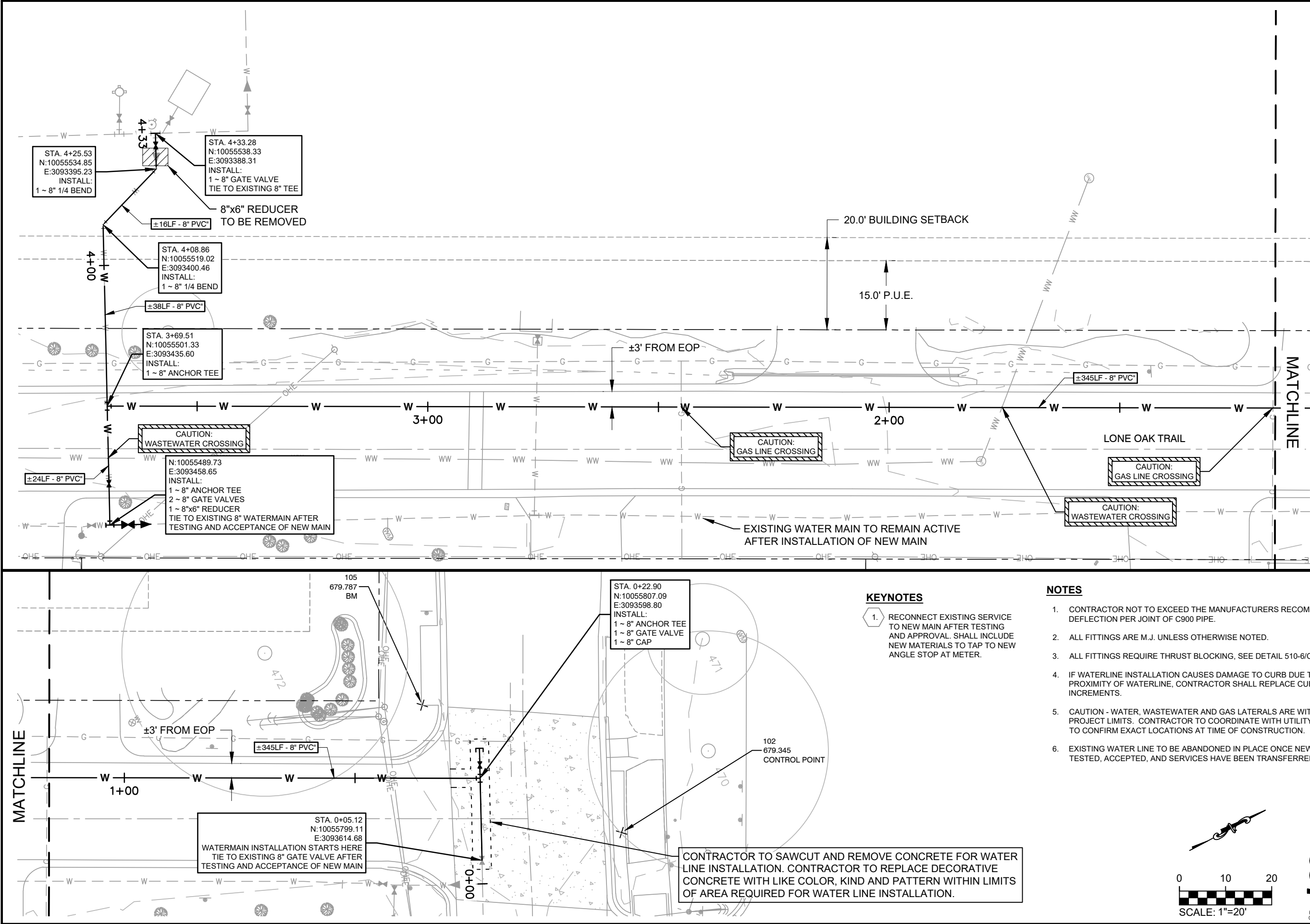
1. CONTRACTOR TO PHOTO DOCUMENT EXISTING DRIVEWAYS TO BE REPLACED AND REPLACE IN LIKE LAYOUT AND PLACEMENT. CONTRACTOR SHALL PRESERVE EXISTING STONE ON DRIVEWAYS WITH STONE WORK AND REPLACE IN LIKE LAYOUT AND PLACEMENT. ALL WORK FOR DRIVEWAY REPLACEMENT TO BE COMPLETE IN PLACE, SEE DETAIL SHEET C7.1, C7.2 FOR TYPICAL DRIVEWAY DETAILS.

- NOTES**
1. CONTRACTOR NOT TO EXCEED THE MANUFACTURERS RECOMMENDED DEFLECTION PER JOINT OF C900 PIPE.
  2. ALL FITTINGS ARE M.J. UNLESS OTHERWISE NOTED.
  3. ALL FITTINGS REQUIRE THRUST BLOCKING, SEE DETAIL 510-6/C7.2.
  4. IF WATERLINE INSTALLATION CAUSES DAMAGE TO CURB DUE TO PROXIMITY OF WATERLINE, CONTRACTOR SHALL REPLACE CURB IN 10' INCREMENTS.
  5. CAUTION - WATER, WASTEWATER AND GAS LATERALS ARE WITHIN PROJECT LIMITS. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS TO CONFIRM EXACT LOCATIONS AT TIME OF CONSTRUCTION.
  6. EXISTING WATER LINE TO BE ABANDONED IN PLACE ONCE NEW LINE IS TESTED, ACCEPTED, AND SERVICES HAVE BEEN TRANSFERRED.

- KEYNOTES**
1. RECONNECT EXISTING SERVICE TO NEW MAIN AFTER TESTING AND APPROVAL. SHALL INCLUDE NEW MATERIALS TO TAP TO NEW ANGLE STOP AT METER.

<b>Freeland+Turk</b> ENGINEERING GROUP	
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<b>SUNSET TRAIL SITE PLAN STA. 15+00-20+00</b>	
<b>2021-2022 CIP PROJECTS</b>	
<b>CITY OF SUNSET VALLEY, TEXAS</b>	
PLOTTING SCALE: AS SHOWN	FILE: C4.0 SITE PLAN.dwg
DRAWN BY: BAM	DESIGNED BY: BAM
REVIEWED BY: GF/TT	PROJECT NO.: 120-108
<b>SHEET</b>	
<b>C4.7</b>	

Date: Jan 12, 2023, 9:05am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\108 - task order 10 - sunset trail and lone oak trail improvements\CAD\Lone Oak Trail CAD\C4.0 SITE PLAN.dwg

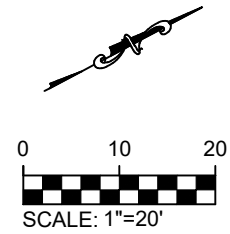


KEYNOTES

- 1. RECONNECT EXISTING SERVICE TO NEW MAIN AFTER TESTING AND APPROVAL. SHALL INCLUDE NEW MATERIALS TO TAP TO NEW ANGLE STOP AT METER.

NOTES

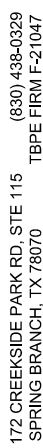
- 1. CONTRACTOR NOT TO EXCEED THE MANUFACTURERS RECOMMENDED DEFLECTION PER JOINT OF C900 PIPE.
- 2. ALL FITTINGS ARE M.J. UNLESS OTHERWISE NOTED.
- 3. ALL FITTINGS REQUIRE THRUST BLOCKING, SEE DETAIL 510-6/C7.2.
- 4. IF WATERLINE INSTALLATION CAUSES DAMAGE TO CURB DUE TO PROXIMITY OF WATERLINE, CONTRACTOR SHALL REPLACE CURB IN 10' INCREMENTS.
- 5. CAUTION - WATER, WASTEWATER AND GAS LATERALS ARE WITHIN PROJECT LIMITS. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS TO CONFIRM EXACT LOCATIONS AT TIME OF CONSTRUCTION.
- 6. EXISTING WATER LINE TO BE ABANDONED IN PLACE ONCE NEW LINE IS TESTED, ACCEPTED, AND SERVICES HAVE BEEN TRANSFERRED.

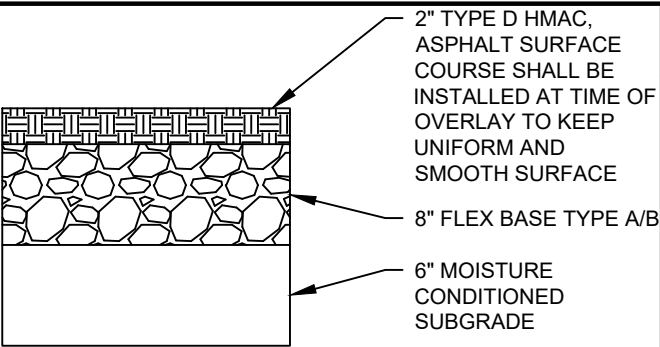
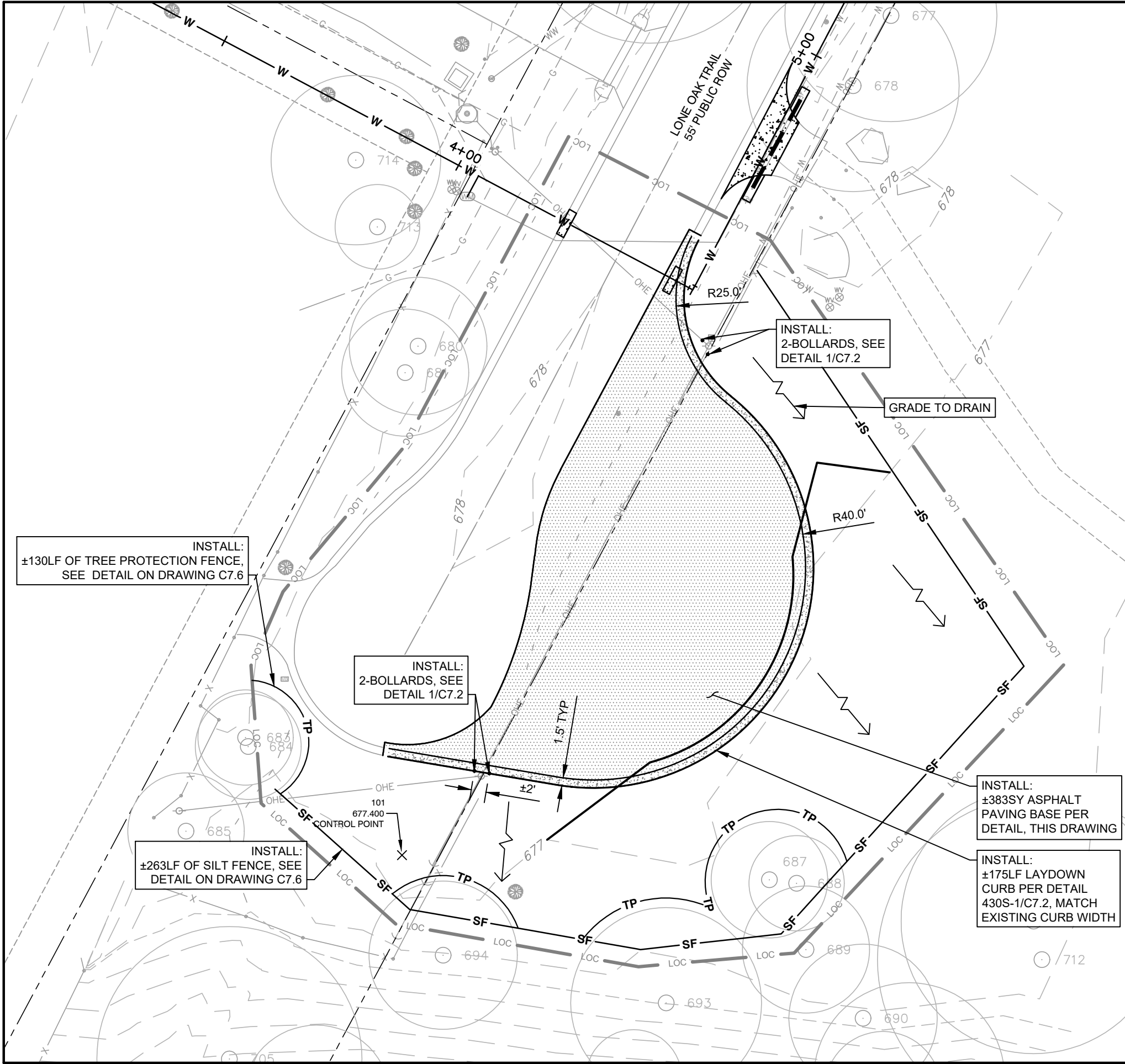


NORTH LONE OAK TRAIL SITE PLAN STA. 0+00 - 4+33 2021-2022 CIP PROJECTS		CITY OF SUNSET VALLEY, TEXAS	
PLOTTING SCALE: AS SHOWN	FILE: C4.0 SITE PLAN.dwg	DRAWN BY: BAM	DESIGNED BY: BAM
REVIEWED BY: GF/TT		PROJECT NO.: 120-108	
SHEET		C4.8	

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ENGINEERING GROUP  
172 CREEKSIDE PARK RD. STE 115  
SPRING BRANCH, TX 78070  
(830) 438-0329  
TBP# FIRM F-21047







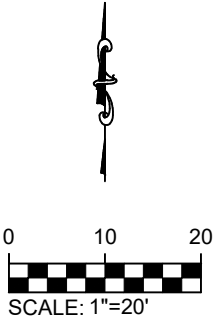
1 TYPICAL PAVEMENT SECTION  
N.T.S.

TREE TABLE	
TAG NO.	DESCRIPTION
470	26" CHINESE ELM (11-9-6-6')
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" HACKBERRY
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	18" 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



APPROVAL

REVISION

DATE

NO.

FILE: C4.0 SITE PLAN.dwg

DRAWN BY: BAM

DESIGNED BY: BAM

REVIEWED BY: GF/TT

PROJECT NO.: 120-108

172 CREEKSIDE PARK RD, STE 115  
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TBPE FIRM F-21047

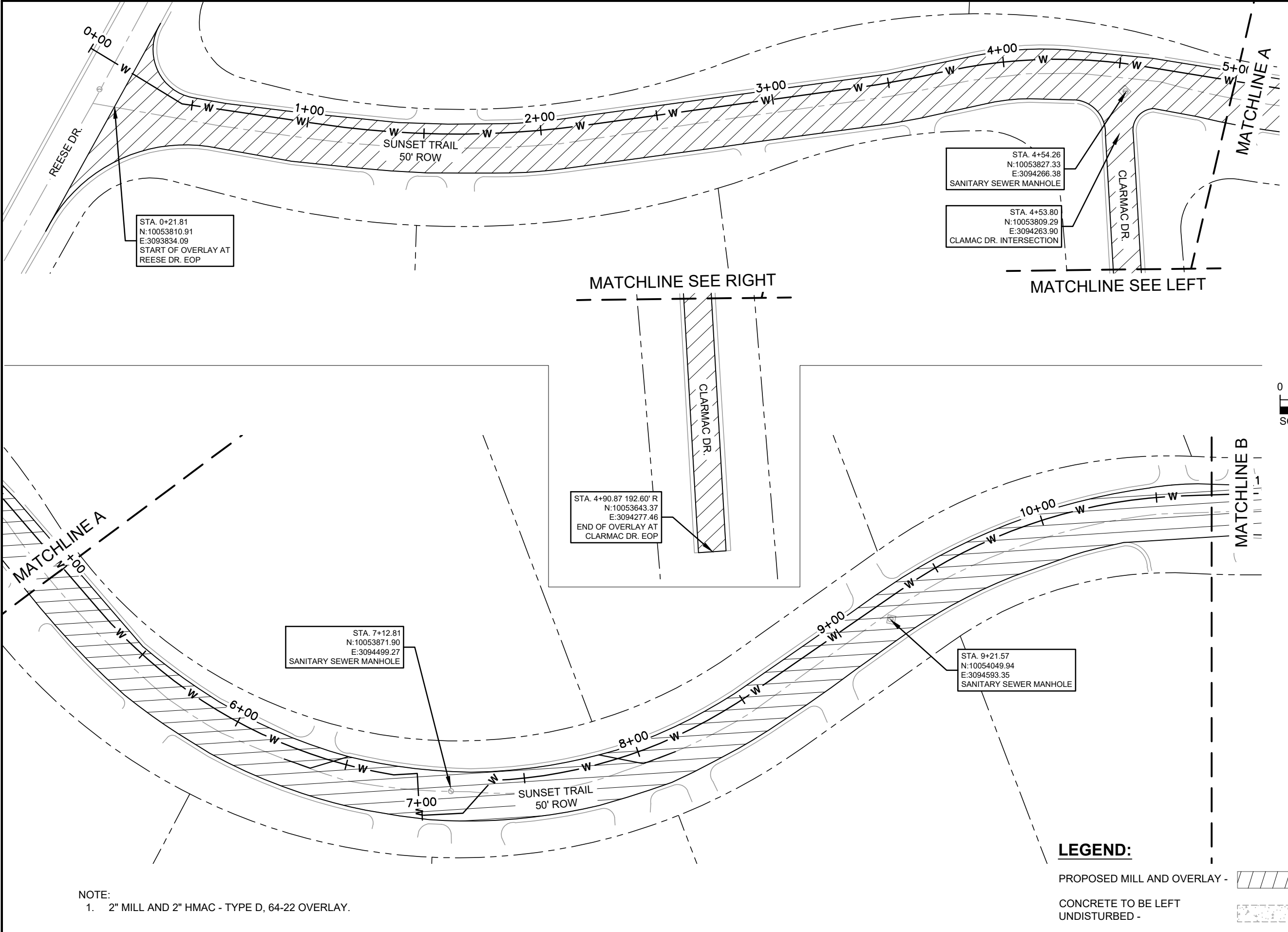
LOVE OAK TRAIL ROAD IMPROVEMENTS  
ENLARGED SITE PLAN  
2021-2022 CIP PROJECTS

CITY OF SUNSET VALLEY, TEXAS

SHEET

C4.10

File: Z:\eng - prd\120 city of sunset valley\108 - task 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 -

[illegible]

**Freeland & Turk**  
**ENGINEERING GROUP**

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## SUNSET TRAIL OVERLAY PLAN 1

### 2021-2022 CIP PROJECTS

CITY OF SUNSET VALLEY, TEXAS

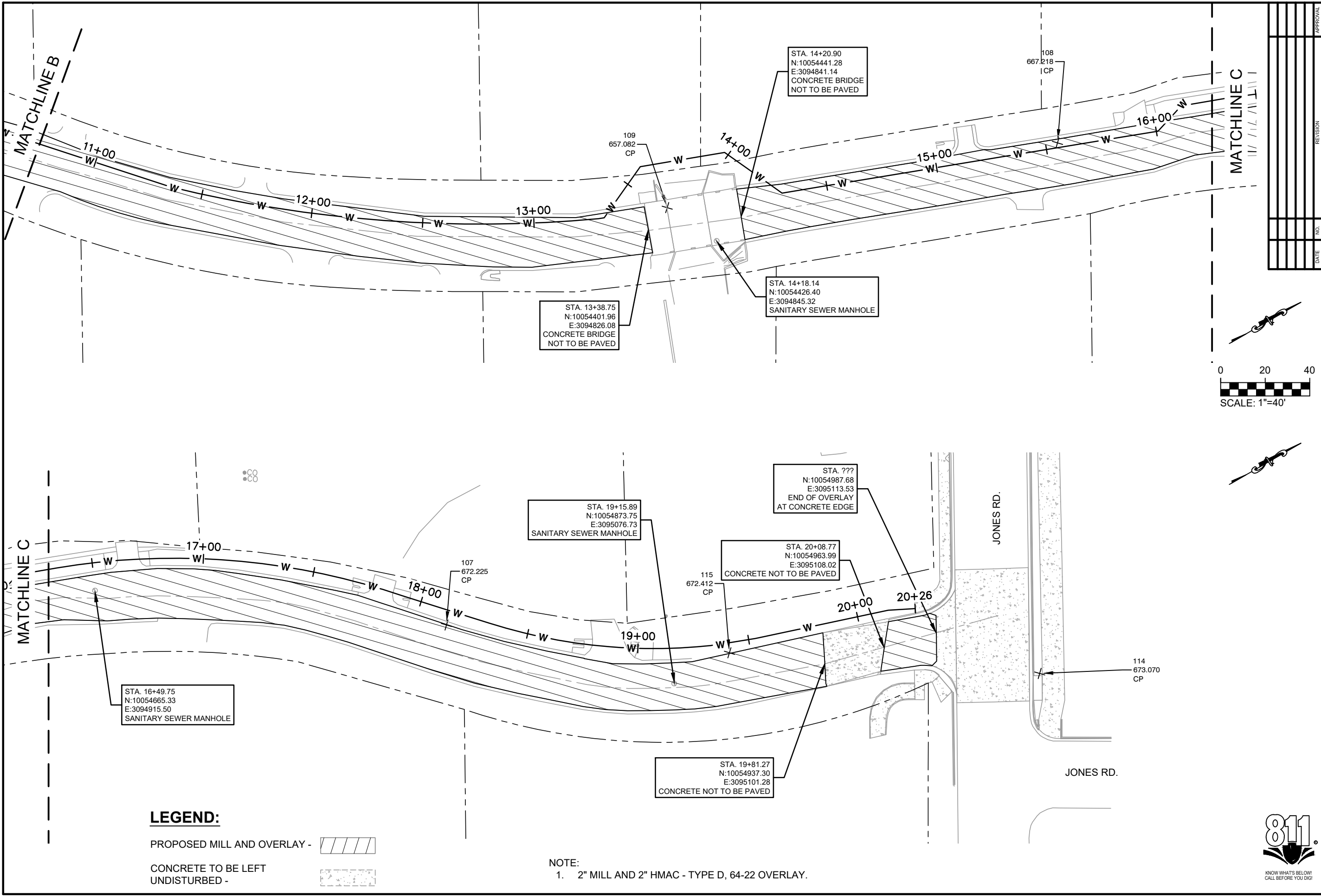
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FILE:EXISTING CONDITIONS.dwg
DRAWN BY: BAM
DESIGNED BY: BAM
REVIEWED BY: GF/TT
PROJECT NO.: 120-108

SHEET



# C4.11



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



**LEGEND:**

PROPOSED MILL AND OVERLAY -   
CONCRETE TO BE LEFT  
UNDISTURBED - 

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



PLOTING SCALE: AS SHOWN		FILE: EXISTING CONDITIONS.dwg	
DRAWN BY: BAM		DESIGNED BY: BAM	
REVIEWED BY: GF/TT		PROJECT NO.: 120-108	
SHEET			
C4.12			

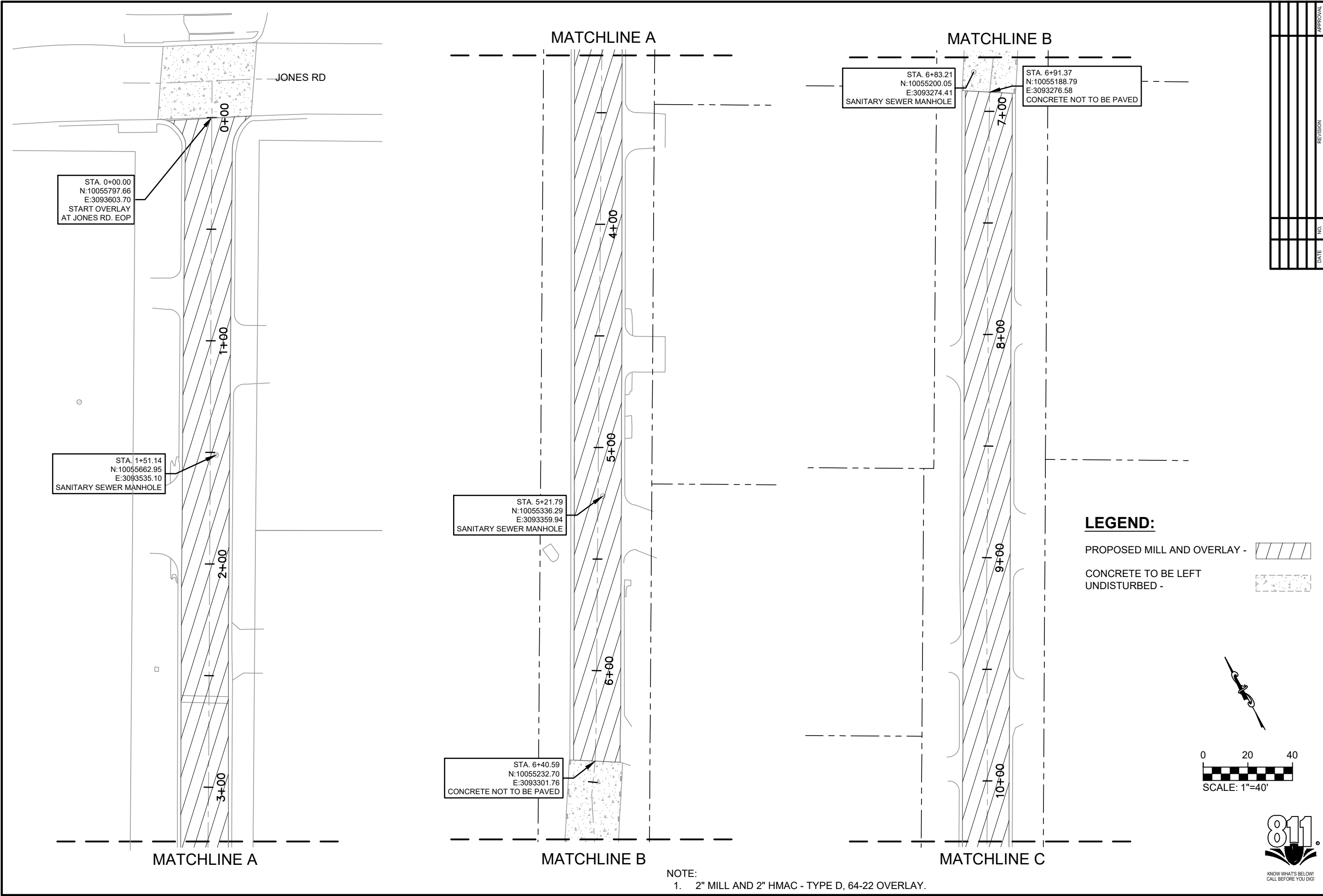
**SUNSET TRAIL OVERLAY PLAN 2**  
**2021-2022 CIP PROJECTS**  
**CITY OF SUNSET VALLEY, TEXAS**

**Freeland+Turk**  
**ENGINEERING GROUP**

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01/13/2023

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



APPROVAL		
DATE	NO.	
REVISION		

**Freeland & Turk**  
ENGINEERING GROUP

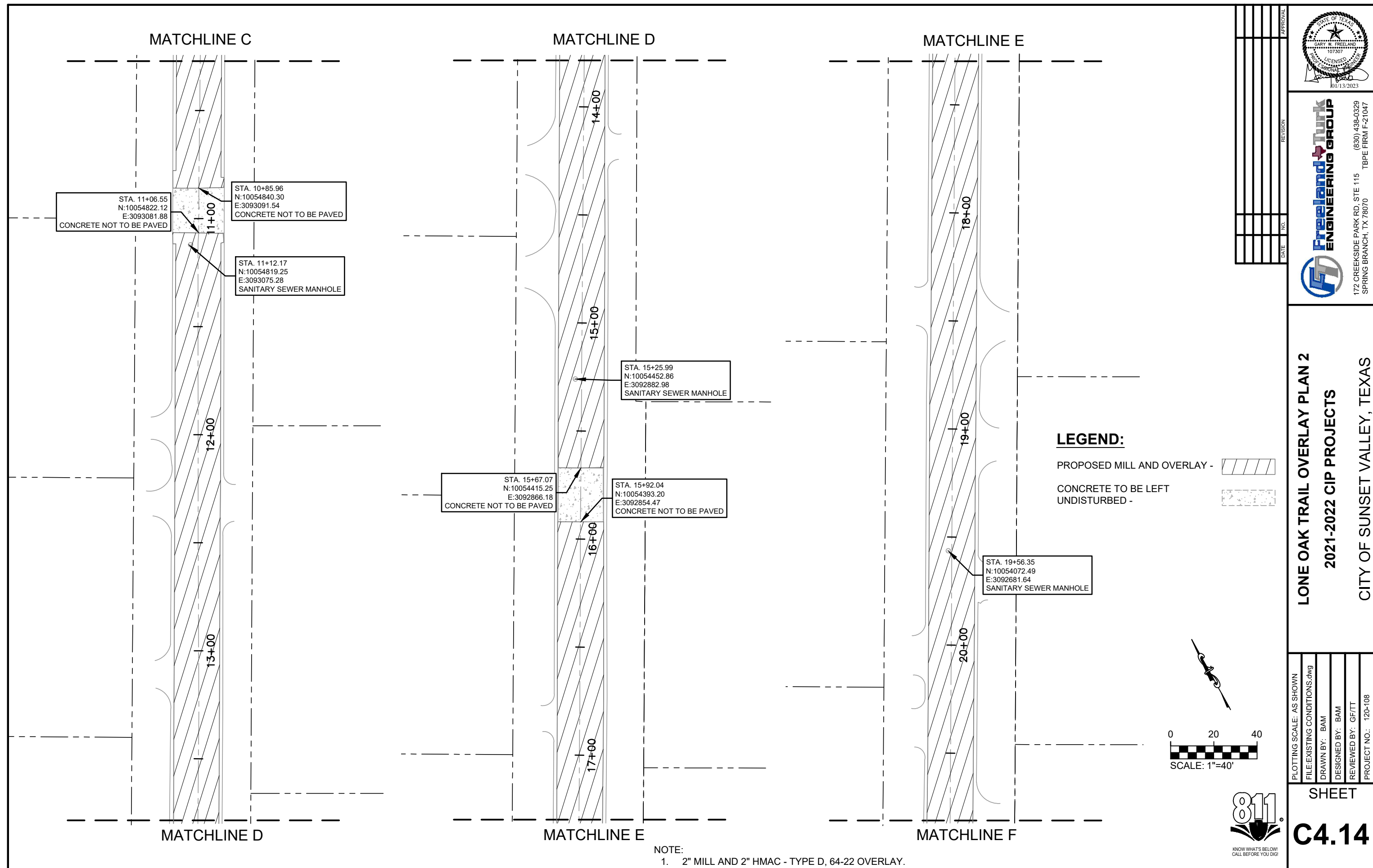
172 CREEKSIDE PARK RD, STE 115  
SPRING BRANCH, TX 78070  
(830) 438-0329  
TBPE FIRM F-21047

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

PLOTTING SCALE: AS SHOWN
FILE: EXISTING CONDITIONS.dwg
DRAWN BY: BAM
DESIGNED BY: BAM
REVIEWED BY: GF/TT
PROJECT NO.: 120-108

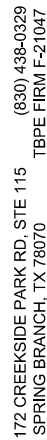
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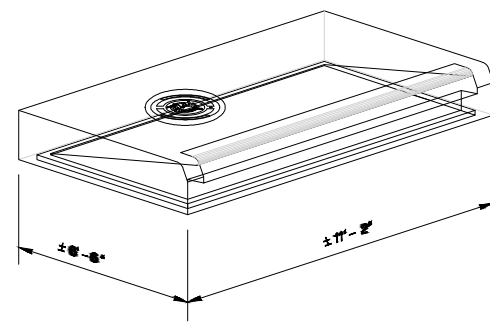
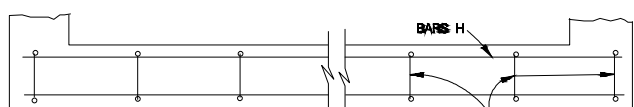
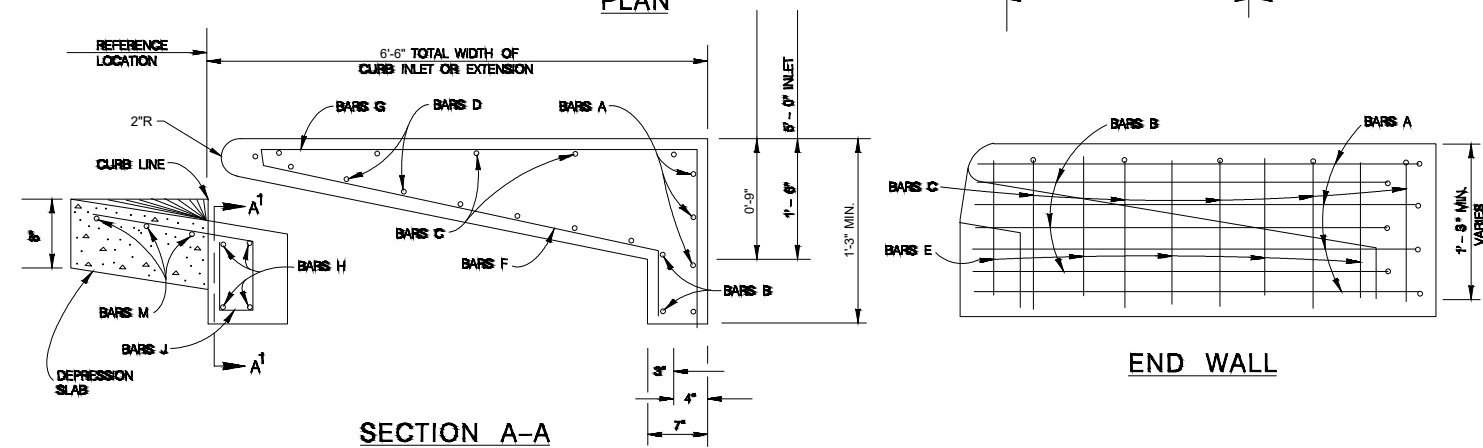
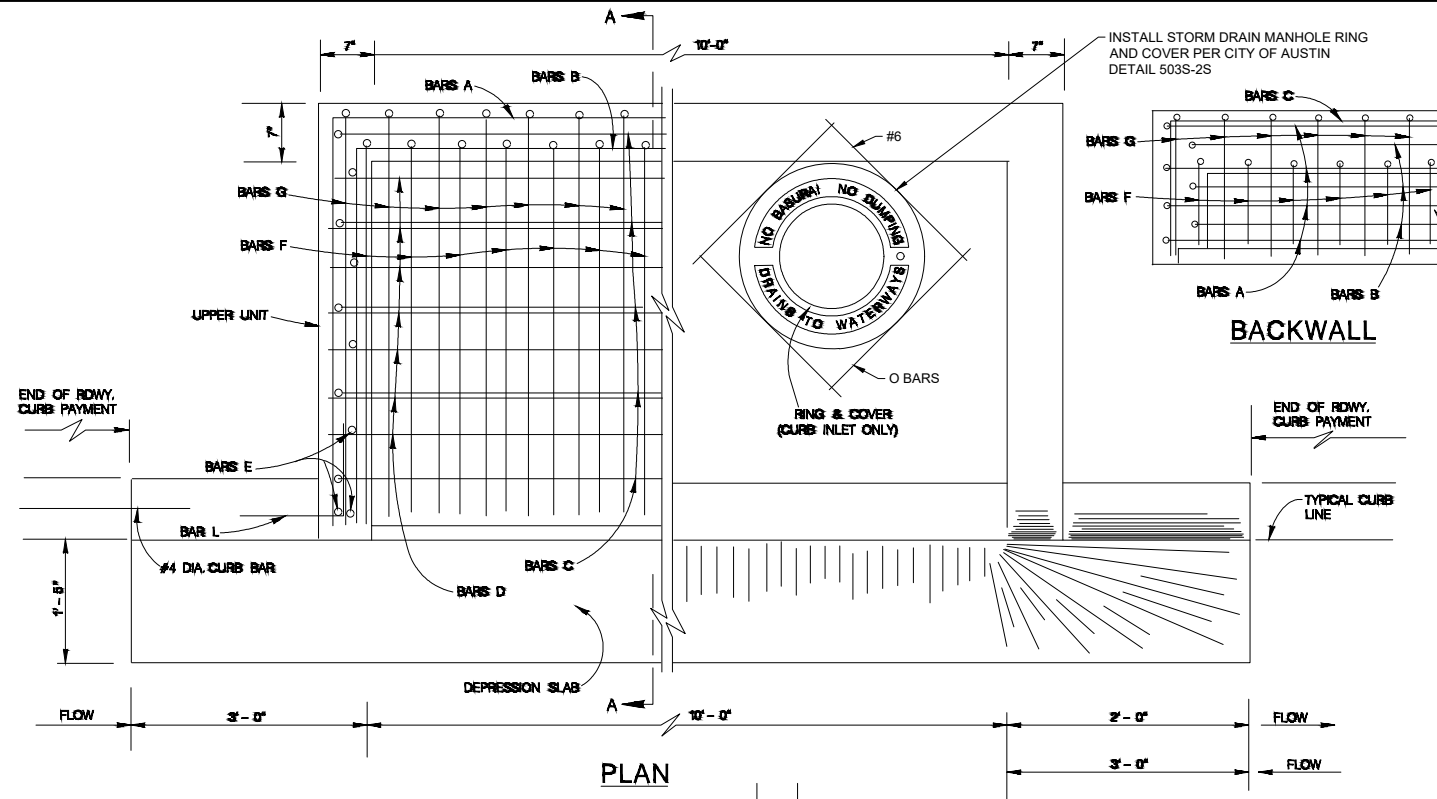
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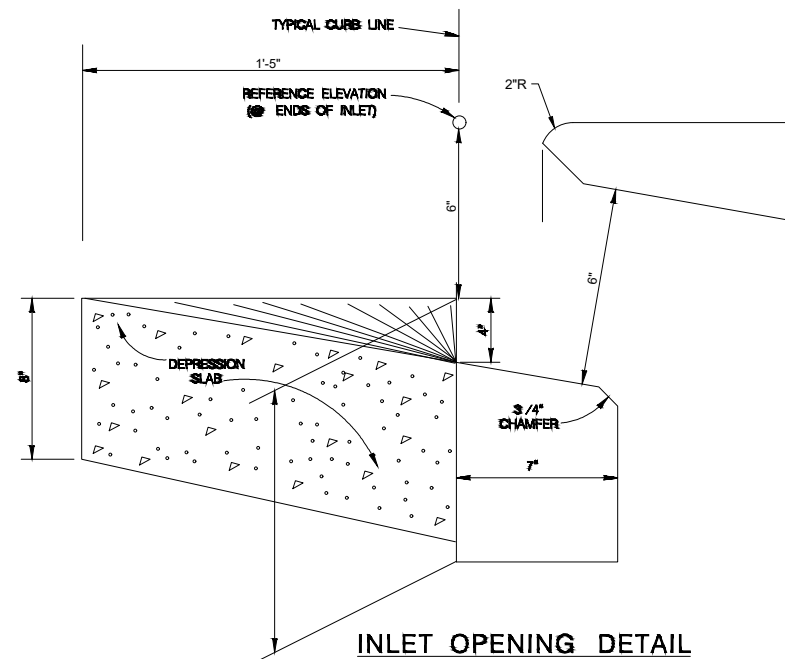
## CITY OF SUNSET VALLEY, TEXAS

PROJECT NO: 120-108

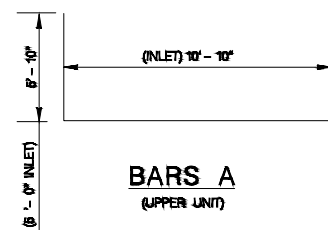
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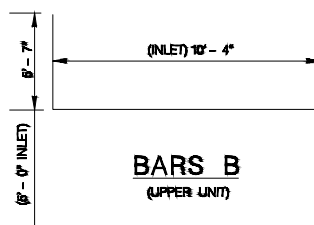
### CONCRETE INLET LID CONFIGURATIONS (UPPER UNITS)



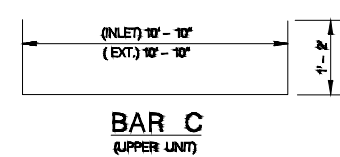
### INLET OPENING DETAIL



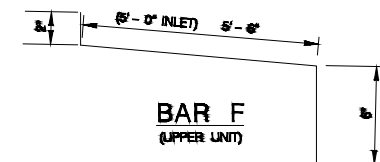
**BARS A**  
(UPPER UNIT)



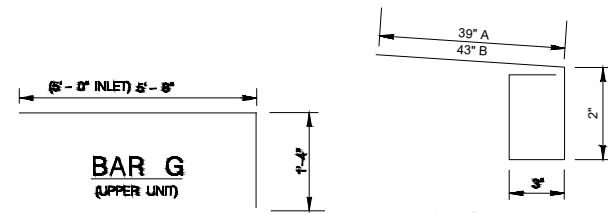
**BARS B**  
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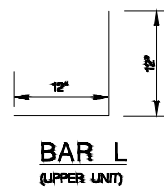
**BAR C**  
**(UPPER UNIT)**



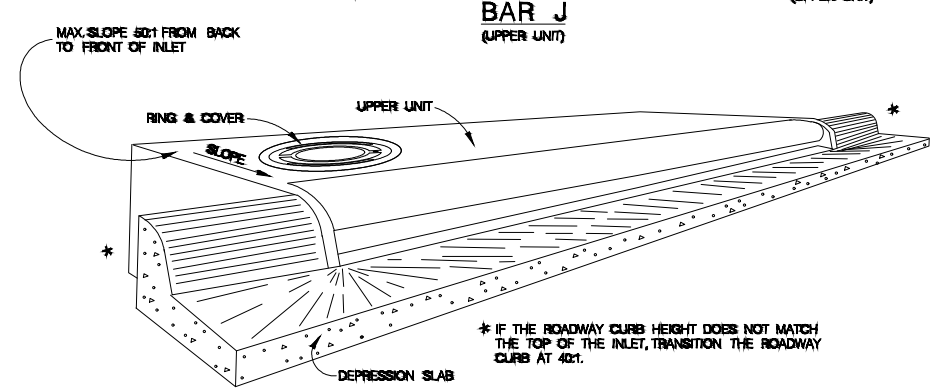
**BAR F**  
(UPPER UNIT)



**BAR G**  
(UPPER UNIT)



BAR L  
(UPPER UNIT)

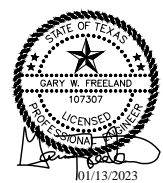


\* IF THE ROADWAY CURB HEIGHT DOES NOT MATCH THE TOP OF THE INLET, TRANSITION THE ROADWAY CURB AT 40:1.

REINFORCING STEEL (FOR  $H_u=11"$ )

UPPER UNIT 10' X 5' (TYPE I)				
BAR	NO.	SIZE	SPAC.	LENGTH
A	4	#4	—	22'-6"
B	2	#6	—	21'-6"
C	7	#4	11"	13'-2"
D	11	#4	6"	10'-10"
E	16	#4	11"	1'-2"
F	21	#6	6"	5'-6"
G	22	#6	6"	7'-0"
H	10	#4	—	10'-10"
J	12	#4	12"	3'-6"
L	4	#4	—	2'-0"
M	3	#4	—	14'-6"
O	4	#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.



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**STORMWATER DETAILS**  
**2021-2022 CIP PROJECTS**  
**CITY OF SUNSET VALLEY, TEXAS**

PLOTTING SCALE: AS SHOWN

FILE:C7.0 DETAILS.dwg

DRAWN BY: BAM

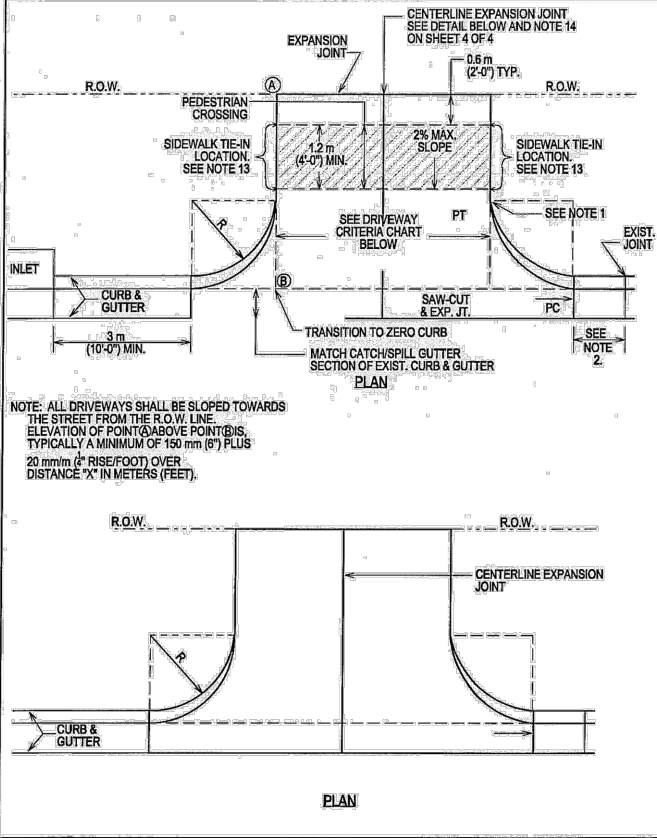
DESIGNED BY: BAM

REVIEWED BY: GF/TT

PROJECT NO.: 120-108

SHEET

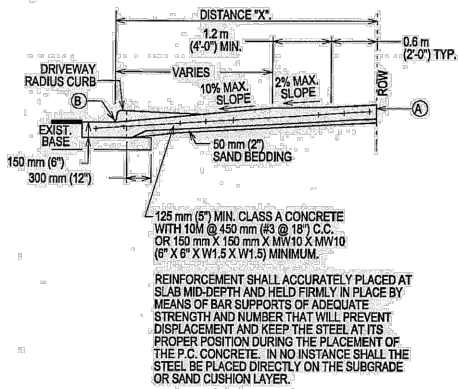
## C7.0



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE I DRIVEWAY (1 & 2 FAMILY RESIDENTIAL USE ONLY)	STANDARD NO. 433S-1 1 OF 4
<i>[Signature]</i> 10-19-09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	

- NOTES:
1. "ZERO" CURB AT PT OR SIDEWALK EDGE, WHICHEVER IS ENCOUNTERED FIRST. THE DRIVEWAY EDGE SHALL BE SMOOTHLY TRANSITIONED INTO THE SIDEWALK BEGINNING AT THE RADIUS PC LINE.
  2. IF DIMENSION IS LESS THAN 1.5 METERS (5 FEET), REMOVE CURB AND GUTTER TO EXISTING JOINT AND POUR MONOLITHICALLY WITH THE DRIVEWAY.
  3. IF THE BASE IS OVER EXCAVATED WHERE THE CURB AND GUTTER WAS REMOVED, BACKFILL WITH CONCRETE MONOLITHICALLY WITH THE DRIVEWAY.
  4. ALL DRIVEWAYS MUST BE CONSTRUCTED WITHIN THE STREET FRONTAGE OF THE SUBJECT PROPERTY AS DETERMINED BY EXTENDING THE SIDE PROPERTY LINES TO THE CURB.
  5. DRIVEWAYS SHALL NOT EXCEED 70% OF A LOT'S STREET FRONTAGE.
  6. TYPE I DRIVEWAYS ARE TO BE LOCATED NO CLOSER TO THE CORNER OF INTERSECTING RIGHTS-OF-WAY THAN 60% OF PARCEL FRONTAGE OR 15 METERS (50 FEET); WHICHEVER IS LESS.
  7. DRIVEWAYS SHALL NOT BE CONSTRUCTED WITHIN THE CURB RETURN OF A STREET INTERSECTION.
  8. SINGLE FAMILY LOTS LIMITED TO ONE DRIVEWAY EXCEPT FOR APPROVED SEMICIRCULAR DRIVES.
  9. WHEN TWO DRIVEWAYS ARE USED (ONE PER UNIT, TWO MAXIMUM) FOR DUPLEXES AND TOWN HOMES, SINGLE FAMILY STANDARDS SHALL APPLY.
  10. WHILE THE PROPERTY OWNER REMAINS RESPONSIBLE FOR GRADE BREAKS WITHIN PRIVATE PROPERTY, THE FIRE DEPARTMENT SHOULD BE CONSULTED WHERE THE DRIVEWAY IS ESSENTIAL TO EMERGENCY VEHICLE ACCESS AND "G2" IS GREATER THAN 15%. "G1" PLUS "D" SHOULD NOT EXCEED 15%.
  11. SEE TRANSPORTATION MANUAL SECTION 5 FOR OTHER DRIVEWAY REQUIREMENTS.
  12. USE 12 mm (1/2") ASPHALT BOARD, OR OTHER APPROVED MATERIAL, FOR CURB AND GUTTER EXPANSION JOINTS.
  13. THE SIDEWALK, REGARDLESS OF ITS LOCATION WITH RESPECT TO THE CURB OR PROPERTY LINE, SHALL BE CONNECTED TO THE DRIVEWAY AT THESE LOCATIONS.
  14. PLACE AN EXPANSION JOINT DOWN THE CENTER OF ALL DRIVEWAYS.
  15. WATER METER BOXES AND WASTEWATER CLEAN OUTS ARE PROHIBITED FROM BEING LOCATED IN DRIVEWAY AREAS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE I DRIVEWAY (1 & 2 FAMILY RESIDENTIAL USE ONLY)	STANDARD NO. 433S-1 4 OF 4
<i>[Signature]</i> 10-19-09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



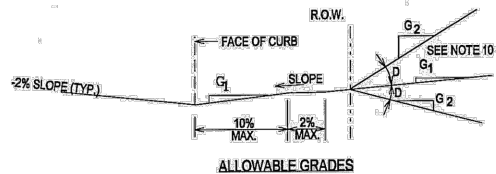
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE I DRIVEWAY (1 & 2 FAMILY RESIDENTIAL USE ONLY)	STANDARD NO. 433S-1 2 OF 4
<i>[Signature]</i> 10-19-09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	

DRIVEWAY CRITERIA	USE	MIN.	OPT.	MAX.
SIN. FAMILY	(12)	3.66 (12)	5.50 (18)	11.80 (25)
DUPLEX	(15)	4.56 (15)	5.50 (18)	11.80 (25)
TOWN HOME	(15)	4.56 (15)	5.50 (18)	11.80 (25)

\*OPTIMUM

RADIUS DIMENSION METERS (FEET)	USE	MIN.	OPT.	MAX.
SINGLE FAMILY	(5)	1.5 (5)	1.5 (5)	3.0 (10)
DUPLEX	(5)	1.5 (5)	2.4 (8)	3.0 (10)
TOWN HOME	(5)	1.5 (5)	2.4 (8)	3.0 (10)

\*OPTIMUM



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE I DRIVEWAY (1 & 2 FAMILY RESIDENTIAL USE ONLY)	STANDARD NO. 433S-1 3 OF 4
<i>[Signature]</i> 10-19-09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	

DRIVEWAY 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: GF/TT  
PROJECT NO.: 120-108

SHEET

C7.1

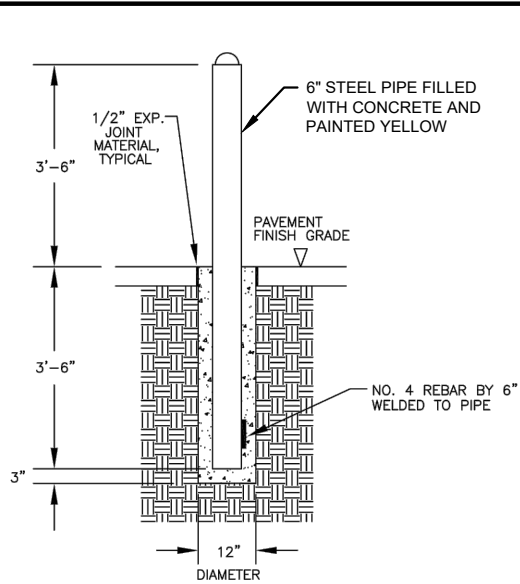
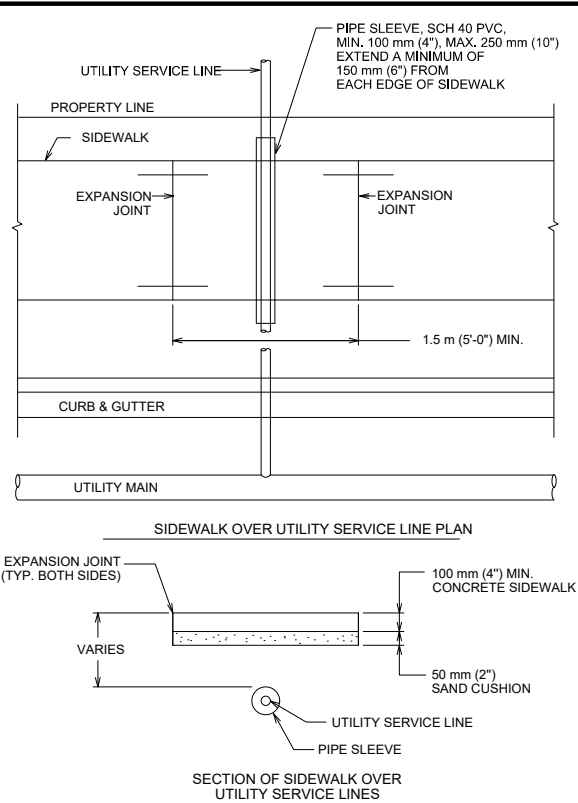
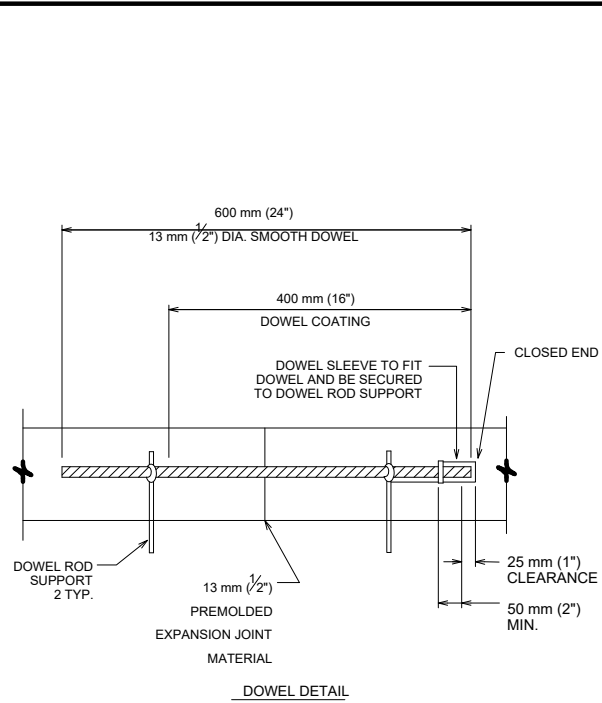
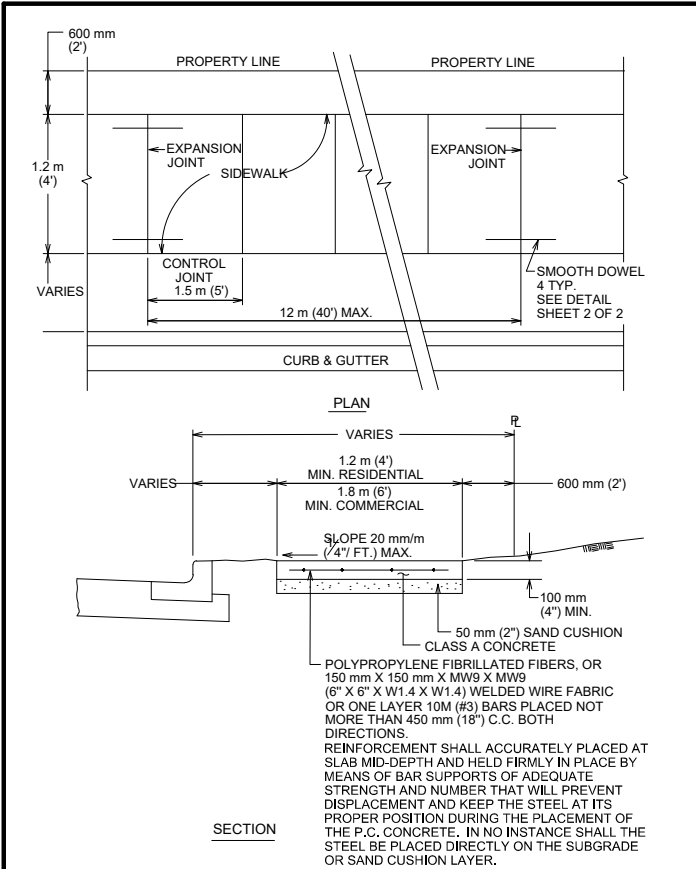


Freeland & Turk  
ENGINEERING GROUP

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



Date: Jan 12, 2023, 9:07am User ID: tbrya  
File: Z:\eng - prd\120 city of sunset valley\108 - task order 10 - sunset trail and lone oak trail improvements\CAD\C7.0 DETAILS.dwg



1 PERMANENT BOLLARD  
N.T.S.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	STANDARD NO.
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
432S-1	1 OF 3	

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	STANDARD NO.
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
432S-1	2 OF 3	

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	STANDARD NO.
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
432S-1	3 OF 3	

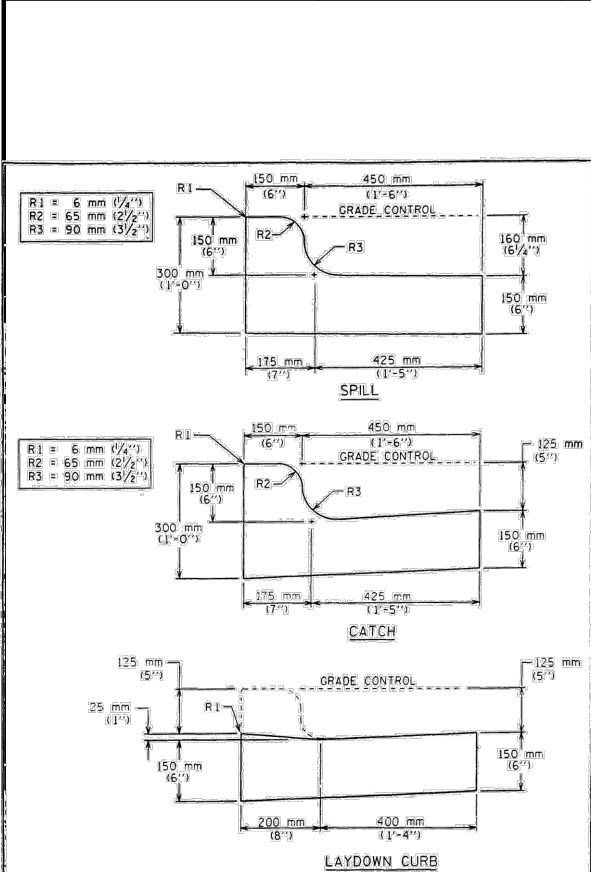
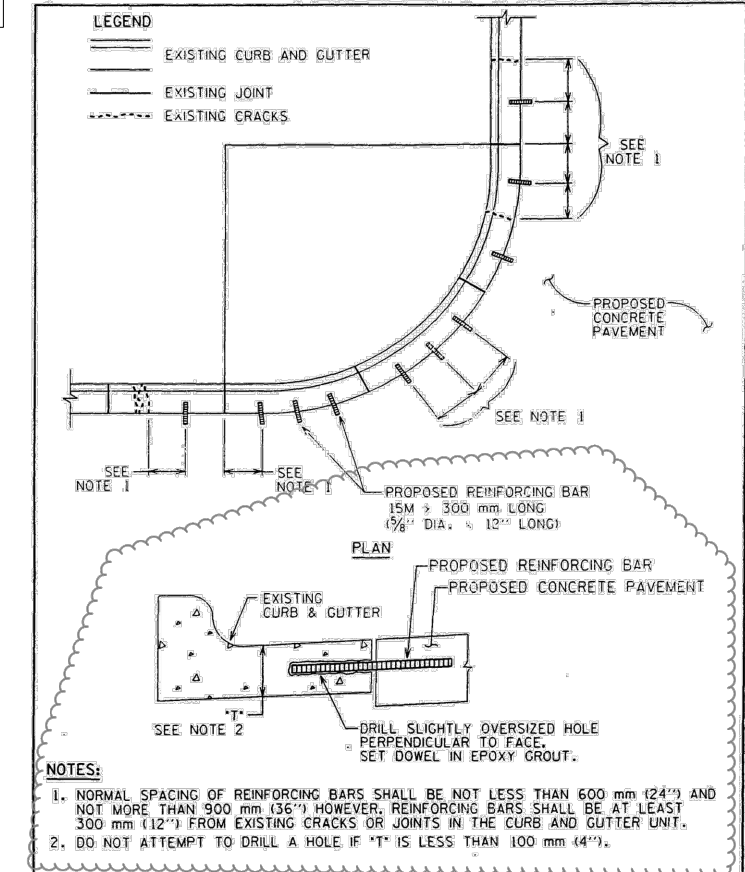
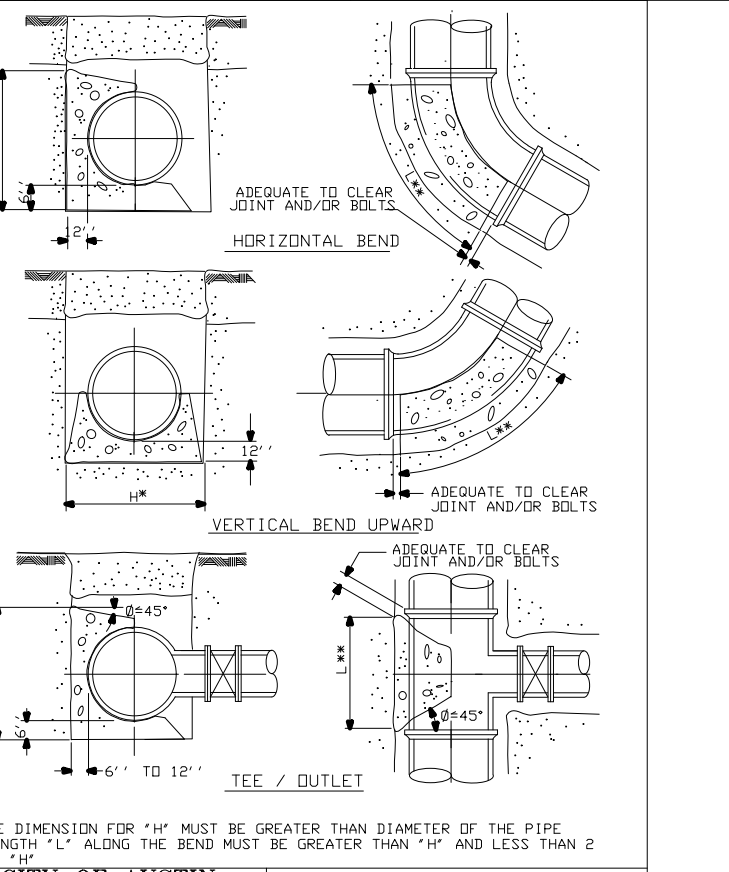


TABLE A UPWARD THRUST GRAVITY BLOCKS	NOTES:
PIPE DIA. MIN. TOP WIDTH W1 ANGLE (degrees) BOTTOM WIDTH W2 (in)	1- FOR ANGLES GREATER THAN THOSE INDICATED RESTRAINED JOINTS SHALL BE INSTALLED
6"	0-5 NOTE 2 5-15 24 15-25 48 25 NOTE 1
8"	0-5 NOTE 2 5-9 30 9-15 36 15 NOTE 1
12"	0-5 NOTE 2 5-15 48 15 NOTE 1
16"	0-5 NOTE 2 5-10 60 10-15 96 15 NOTE 1
24" THRU 36" DIA.	5-10 NOTE 1
42" THRU 48" DIA.	10-15 NOTE 1
THRUST BLOCK DESIGN AS FOLLOWS A. PRESSURE OF 150 P. S. I. (ACTUAL IF HIGHER) + 50 % SURGE ALLOWANCE B. MAXIMUM SOIL BEARING SEE TABLE BELOW	
SOIL TYPES	PRESSURE
LOOSE OR SPONGY SOIL	1500 Lb/Sq. Ft.
UNDISTURBED SOIL, CALICHE	2000 Lb/Sq. Ft.
LIMESTONE ROCK	4000 Lb/Sq. Ft.



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

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	CONCRETE THRUST BLOCKING	STANDARD NO.
RECORD COPY SIGNED BY JAMES E. THOMPSON	2/11/86 APPROVED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
510-6	1 OF 2	

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	CONCRETE THRUST BLOCKING	STANDARD NO.
RECORD COPY SIGNED BY JAMES E. THOMPSON	2/11/86 APPROVED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
510-6	2 OF 2	

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	REINFORCING BAR DETAIL AT EXISTING CURB AND GUTTER	STANDARD NO.
RECORD COPY SIGNED BY JAMES E. THOMPSON	2/11/86 APPROVED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
430S-5	1 OF 1	

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: GF/TT	PROJECT NO.: 120-108
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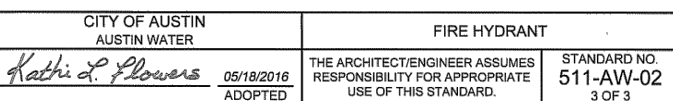
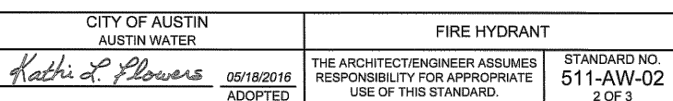
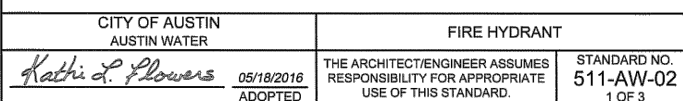
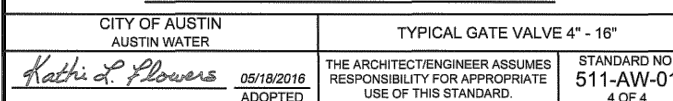
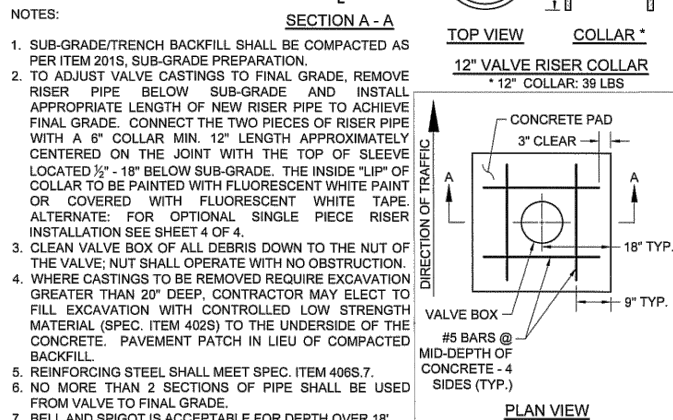
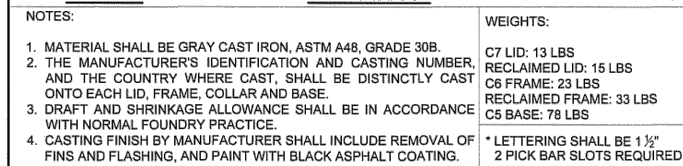
C7.2

STATE OF TEXAS  
REGISTERED PROFESSIONAL ENGINEER  
1017330  
01/13/2023  
Freeland & Turk  
ENGINEERING GROUP  
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SPRING BRANCH, TX 78070  
(830) 438-0329  
TBPE FIRM F-21047





CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
<i>Kathi L. Flowers</i>	05/18/2016 ADOPTED	STANDARD NO. 511-AW-C 1 OF 4



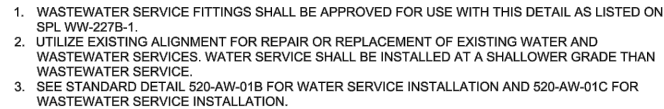
**WATERMAIN DETAILS 1**  
**2021-2022 CIP PROJECTS**  
**CITY OF SUNSET VALLEY, TEXAS**

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

SHEET

**C7.3**





THIS DETAIL FOR USE ONLY ON CITY OF AUSTIN C.I.P. PROJECTS.

NEW PAVING SURFACE  
ITEM 340

NEW BASE

PRIME, ITEM 306S OR  
TACK COAT, ITEM 307S

NEW PAVEMENT DEPTH  
(SEE NOTE 6)

SAW CUT

EXISTING SURFACE

EXISTING BASE  
(SEE NOTES 4 & 5)

150 mm (6'')

150 mm (6'')

DEPTH VARIES  
1.2 m (48'') MIN. FOR  
WATER LINES  
1.05 m (68'') MIN. FOR  
WASTEWATER LINES

300 mm  
(12'')

PIPE O.D.  
+150 mm  
(+6'')

PIPE O.D.

150 mm  
(6'')

BEDDING ENVELOPE  
SEE ITEM 510 OF STANDARD  
SPECIFICATIONS

CENTER PIPE IN TRENCH

UNDISTURBED EARTH

PIPE O.D.+300 mm  
(+12'') MIN.

PIPE O.D.+600 mm  
(+24'') MAX.

NOTES:

1. 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.
2. ANY CONCRETE PAVING SHALL BE SAW CUT 150 mm (6'') WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
3. 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 CRETE.
4. 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.
5. 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.
6. 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. <b>510S-3</b> 1 OF 1



Diagram illustrating a typical trench detail with unfinished surface. The diagram shows a cross-section of a trench with a pipe installed. Key components and dimensions are labeled:

- MULCH OR SOD**: Material on the sides of the trench.
- NATURAL GROUND**: The original ground surface.
- SUBGRADE**: The base of the trench.
- MINIMUM COVER AS DEFINED IN UCM SECTION 3.4.3 AND ITEM 510, SECTION 510.3(6)**: The required depth of cover above the pipe.
- COMPACTED BACKFILL ITEM 510, SECTION 510.3(6)**: The material filling the trench.
- BEDDING ENVELOPE ITEM 510, SECTION 510.3(6)**: The layer surrounding the pipe.
- CENTER PIPE IN TRENCH**: The pipe being installed.
- UNDISTURBED EARTH**: The ground below the trench.
- PIPE O.D. = 300 mm (+12") MIN.**: Minimum pipe outer diameter.
- PIPE O.D. = 600 mm (+24") MAX.**: Maximum pipe outer diameter.
- PIPE O.D. = 150 mm (+6")**: Minimum pipe outer diameter.
- PIPE O.D. = 300 mm (+12")**: Maximum pipe outer diameter.

**REFERENCES:**

- UTILITY CRITERIA MANUAL SECTION 3.4.3, "FINAL DESIGN"
- STANDARD SPECIFICATION MANUAL ITEM 510, SECTION 510.2(6), "SELECT BACKFILL OR BORROW"; SECTION 510.3(6), "TRENCH DEPTH AND DEPTH OF COVER"; SECTION 510.3(14), "PIPE BEDDING ENVELOPE"

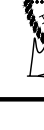
<p>CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS</p> <p><i>Joe Anderson</i> 3/13/00 ADOPTED</p>	<p>TYPICAL TRENCH DETAIL WITH UNFINISHED SURFACE</p> <p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> <p>STANDARD 510</p>
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- 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" MIX X 1" COPPER FLARE FITTING, SPL WW-68 OR 69
- F. 1" COPPER FLARE FITTING, SPL WW-68
- G. 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

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:  
     $\frac{3}{8}$ " AND  $\frac{1}{2}$ " METERS:  $8 \frac{1}{2}$ " LONG x  $\frac{1}{4}$ " DIA.  
    1" METERS:  $8 \frac{1}{2}$ " LONG x 1" DIA.  
M. PROPERTY OWNER'S CUT OFF VALVE, SPL. WW-276  
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)

1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM, SPL WW-27D.
2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
3. TOP OF METER BOXES SHOULD BE 4" ABOVE GROUND.
4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (4) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
5. METER BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
6. BALL VALVE "D" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 36" BELOW FINAL GRADE.
7. METER SIZES TO BE SHOWN ON PLANS.
8. METER BOX CUT OUTS SHALL NOT EXCEED TWO TIMES THE PIPE DIAMETER.
9. INSTALL METALLIC TRACER TAPE, SPL WW-597, MINIMUM 1" ABOVE TUBING FROM SERVICE CLAMP "A" TO BALL VALVE "D".
10. 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.
11. 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.
12. 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.
13. 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.

2(6)	
3(14)	
H	
RD NO.	
S-5	

DATE	NO.	REVISION	APPROVAL
			



**Freeland & Turk**  
ENGINEERING GROUP

172 CREEKSIDE PARK RD., STE 115  
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## 2021-2022 CIP PROJECTS

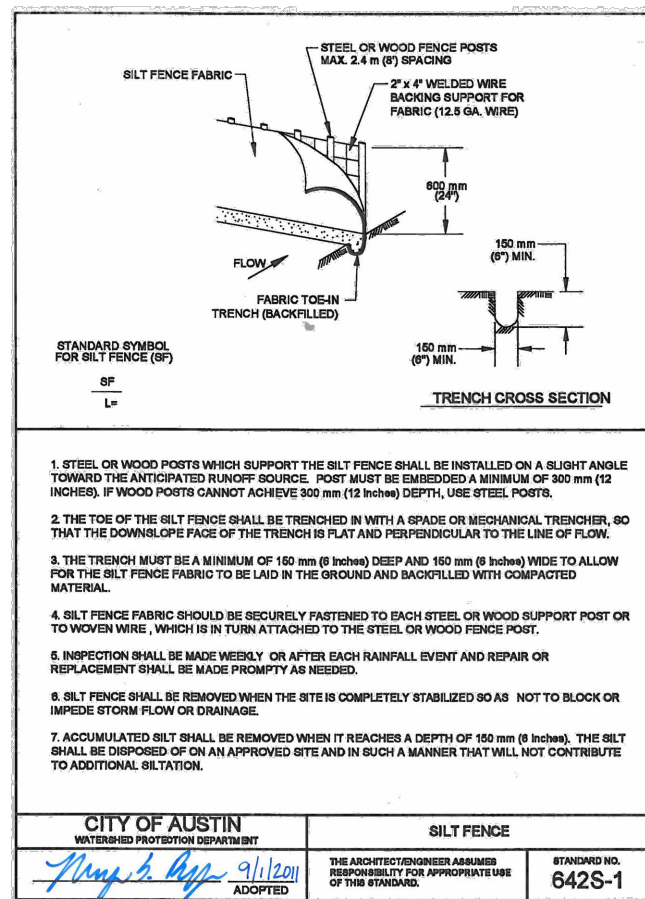
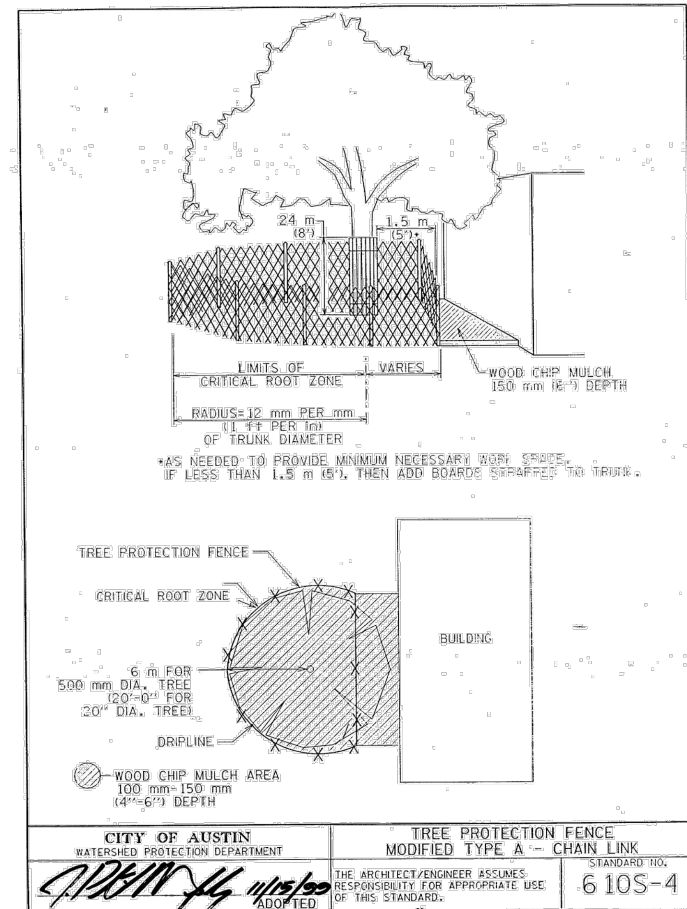
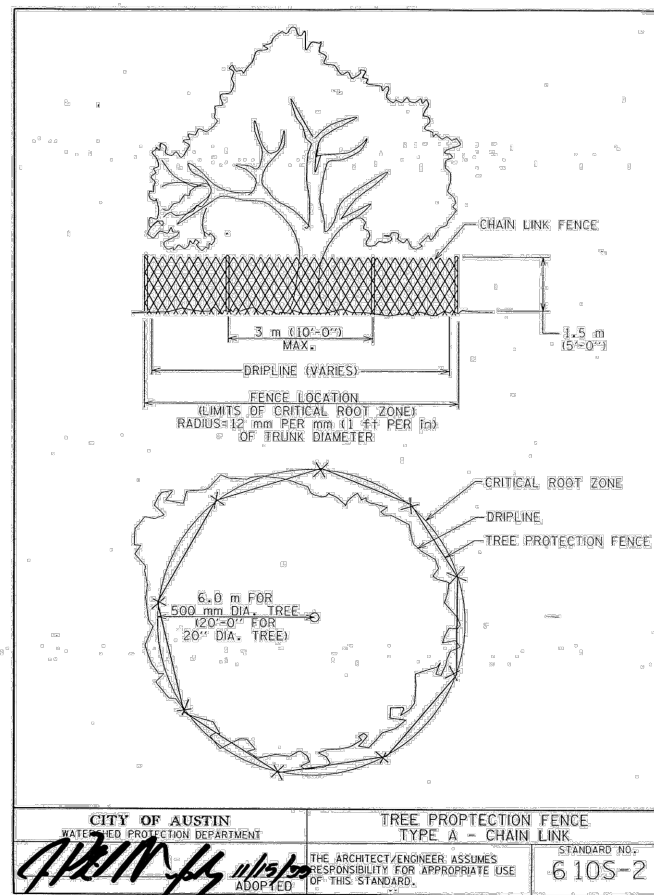
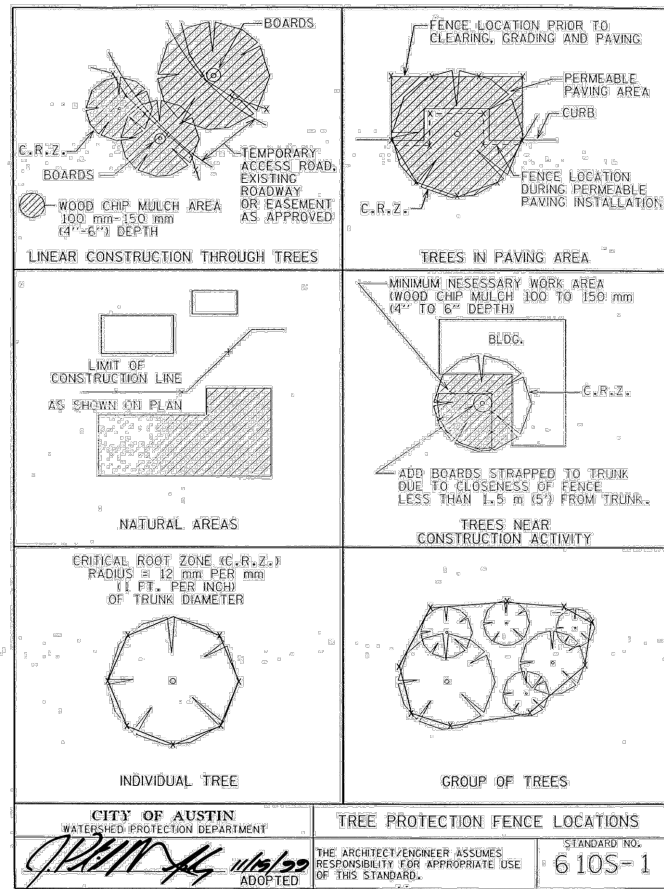
CITY OF SUNSET VALLEY, TEXAS

SHEET

## C7.4





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**Freeland+Turk**  
**ENGINEERING GROUP**

1772 CREEKSIDE PARK RD, STE 115 (830) 438-0329  
SPRING BRANCH, TX 78070 TBPE FIRM F-21047

## EROSION AND SEDIMENT CONTROL 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: G/TT
PROJECT NO.: 120-108

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## C7.6