

WPM Project No: C02-23011-00

Date: June 10, 2024

TCEQ - EDWARD'S AQUIFER RECHARGE ZONE EXCEPTION REQUEST**WEST LAKE HILLS STREET REHABILITATION & DRAINAGE IMPROVEMENTS**

Prepared For:
City Of West Lake Hills



Submitted To
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

Submitted By
Susan Turrieta, P.E.
Managing Director
Walter P. Moore and Associates, Inc.
(TBPE Firm Registration No. 1856)

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Edward’s Aquifer Application Cover Page (TCEQ Form 20705)

Tab 1

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with [30 TAC 213](#).

Administrative Review

1. [Edwards Aquifer applications](#) must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <http://www.tceq.texas.gov/field/eapp>.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited.**
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a “Mid-Review Modification”. Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ’s Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ’s San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: City of West Lake Hills 2024 Street and Drainage Improvements					2. Regulated Entity No.:				
3. Customer Name: City of West Lake Hills					4. Customer No.:CN600685515				
5. Project Type: (Please circle/check one)	New	Modification			Extension	Exception			
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-residential			8. Site (acres):			1.70	
9. Application Fee:	\$500		10. Permanent BMP(s):			N/A			
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):			N/A			
13. County:	Travis		14. Watershed:			Eanes Creek, Lady Bird Lake			

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the “Texas Groundwater Conservation Districts within the EAPP Boundaries” map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	<u> X </u>	—
Region (1 req.)	—	<u> X </u>	—
County(ies)	—	<u> X </u>	—
Groundwater Conservation District(s)	<u> </u> Edwards Aquifer Authority <u> </u> Barton Springs/ Edwards Aquifer <u> </u> Hays Trinity <u> </u> Plum Creek	<u> X </u> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<u> </u> Austin <u> </u> Buda <u> </u> Dripping Springs <u> </u> Kyle <u> </u> Mountain City <u> </u> San Marcos <u> </u> Wimberley <u> </u> Woodcreek	<u> </u> Austin <u> </u> Bee Cave <u> </u> Pflugerville <u> </u> Rollingwood <u> </u> Round Rock <u> </u> Sunset Valley <u> X </u> West Lake Hills	<u> </u> Austin <u> </u> Cedar Park <u> </u> Florence <u> </u> Georgetown <u> </u> Jerrell <u> </u> Leander <u> </u> Liberty Hill <u> </u> Pflugerville <u> </u> Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<u> </u> Edwards Aquifer Authority <u> </u> Trinity-Glen Rose	<u> </u> Edwards Aquifer Authority	<u> </u> Kinney	<u> </u> EAA <u> </u> Medina	<u> </u> EAA <u> </u> Uvalde
City(ies) Jurisdiction	<u> </u> Castle Hills <u> </u> Fair Oaks Ranch <u> </u> Helotes <u> </u> Hill Country Village <u> </u> Hollywood Park <u> </u> San Antonio (SAWS) <u> </u> Shavano Park	<u> </u> Bulverde <u> </u> Fair Oaks Ranch <u> </u> Garden Ridge <u> </u> New Braunfels <u> </u> Schertz	NA	<u> </u> San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Print Name of Customer/Authorized Agent

Susan Turrieta

Signature of Customer/Authorized Agent *Susan Turrieta* Date 6/10/2024

****FOR TCEQ INTERNAL USE ONLY****

Date(s) Reviewed:		Date Administratively Complete:	
Received From:		Correct Number of Copies:	
Received By:		Distribution Date:	
EAPP File Number:		Complex:	
Admin. Review(s) (No.):		No. AR Rounds:	
Delinquent Fees (Y/N):		Review Time Spent:	
Lat./Long. Verified:		SOS Customer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):
Core Data Form Complete (Y/N):			Signed (Y/N):
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):

General Information (TCEQ Form 0587)

Tab 2

Attachment A
Attachment B
Attachment C

Road Map
USGS/Edwards Recharge Zone Map
Project Description

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Susan Turrieta, PE

Date: 6/10/2024

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: _____
2. County: Travis
3. Stream Basin: Eanes Creek, Lady Bird Lake
4. Groundwater Conservation District (If applicable): N/A
5. Edwards Aquifer Zone:
 Recharge Zone
 Transition Zone
6. Plan Type:
 WPAP
 SCS
 Modification
 AST
 UST
 Exception Request

7. Customer (Applicant):

Contact Person: Trey Fletcher

Entity: City of West Lake Hills

Mailing Address: 911 Westlake Dr

City, State: West Lake Hills, Texas

Zip: 78746

Telephone: 512-327-3628

FAX: _____

Email Address: tfletcher@westlakehills.gov

8. Agent/Representative (If any):

Contact Person: Susan Turrieta

Entity: Walter P Moore

Mailing Address: 401 S 1st St., Ste 600

City, State: Austin, TX

Zip: 78704

Telephone: 512-330-1292

FAX: _____

Email Address: sturrieta@walterpmoore.com; zscott@walterpmoore.com

9. Project Location:

The project site is located inside the city limits of West Lake Hills.

The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.

The project site is not located within any city's limits or ETJ.

10. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

Project is part of the West Lake Hills Street Rehabilitation Improvements, it includes two projects in the City of Westlake Hills, Texas, all located in the Edwards Aquifer recharge zone. The first, located adjacent & North-West to the intersection of Las Lomas Drive and Rollingwood Drive (Eanes Creek Water Shed). The second, on North Peak Rd with limits from Rollingwood Dr to Gentry Dr (Lady Bird Lake & Eanes Creek Watershed).

11. **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

Project site boundaries.

USGS Quadrangle Name(s).

Boundaries of the Recharge Zone (and Transition Zone, if applicable).

Drainage path from the project site to the boundary of the Recharge Zone.

13. **The TCEQ must be able to inspect the project site or the application will be returned.**
Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

Survey staking will be completed by this date: 10/2024

14. **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

- Area of the site
- Offsite areas
- Impervious cover
- Permanent BMP(s)
- Proposed site use
- Site history
- Previous development
- Area(s) to be demolished

15. Existing project site conditions are noted below:

- Existing commercial site
- Existing industrial site
- Existing residential site
- Existing paved and/or unpaved roads
- Undeveloped (Cleared)
- Undeveloped (Undisturbed/Uncleared)
- Other: _____

Prohibited Activities

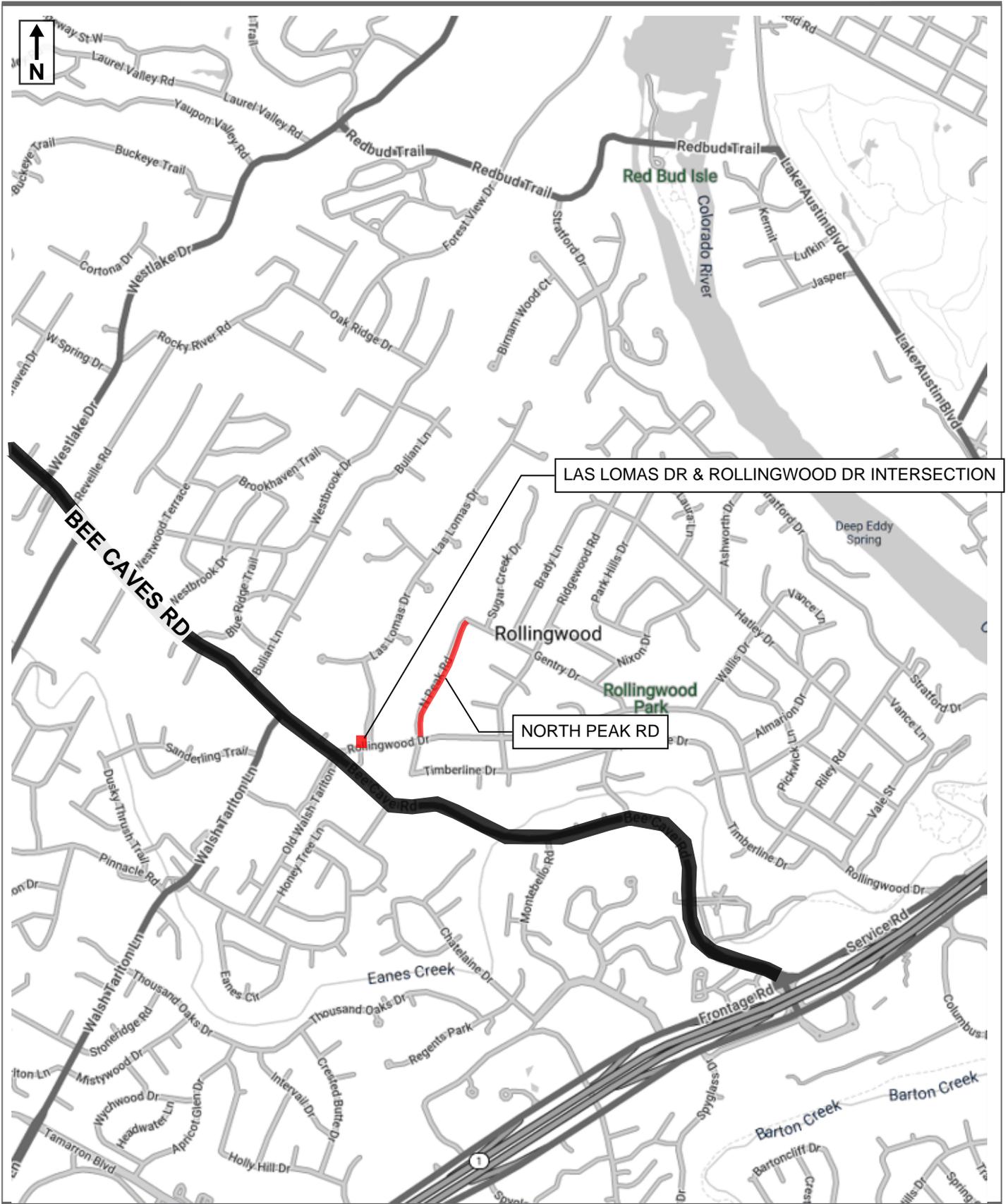
16. I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
- (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
- (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
- (4) The use of sewage holding tanks as parts of organized collection systems; and
- (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
- (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:
- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
 - (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
 - (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

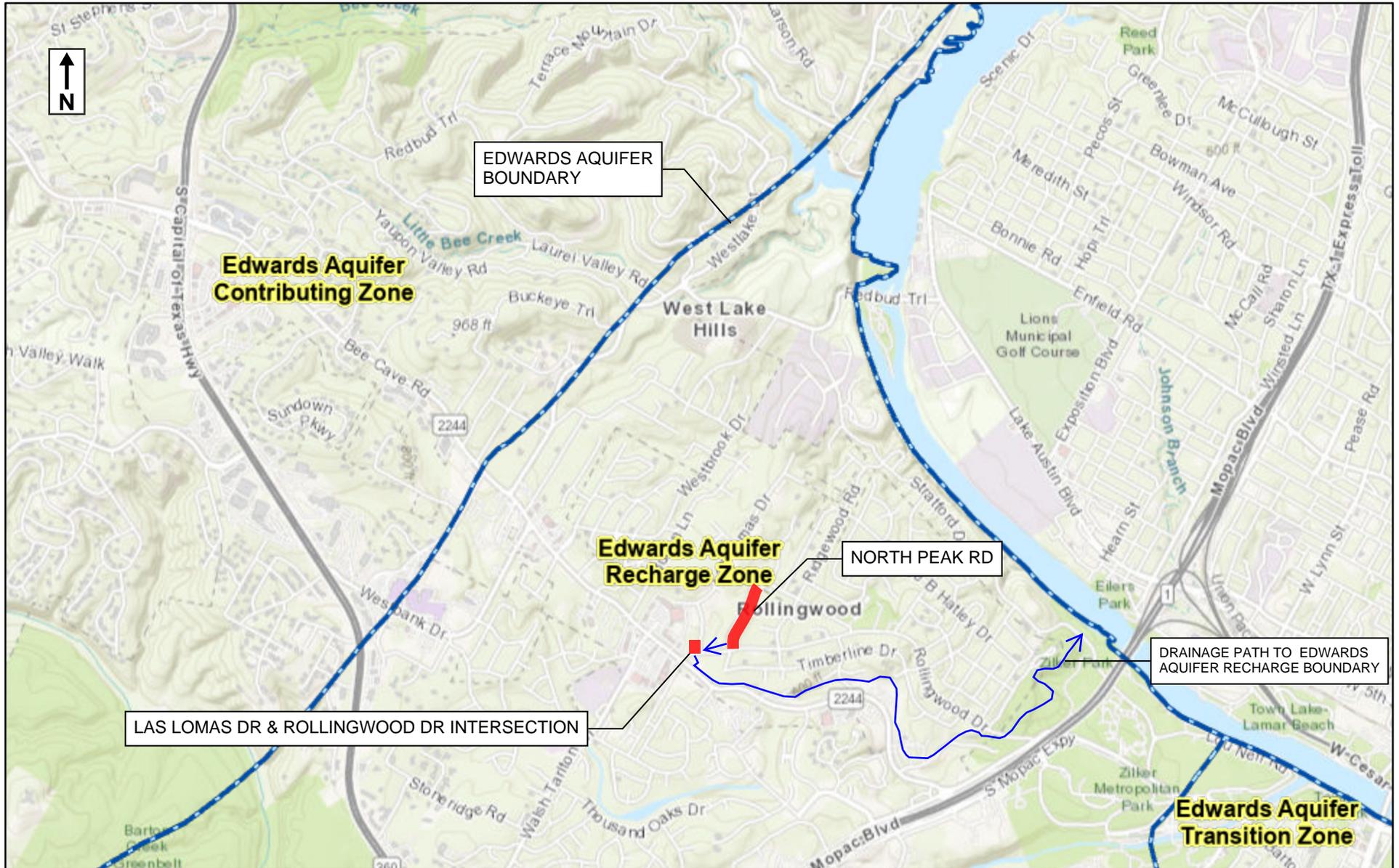
Administrative Information

18. The fee for the plan(s) is based on:
- For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
 - For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
 - For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
 - A request for an exception to any substantive portion of the regulations related to the protection of water quality.
 - A request for an extension to a previously approved plan.
19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:
- TCEQ cashier
 - Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
 - San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
20. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
21. No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.



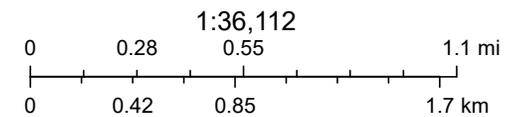
ATTACHMENT B - USGS EDWARDS' RECHARGE ZONE MAP - GENERAL INFORMATION FORM (TCEQ-0587)

EDWARDS AQUIFER VIEWER 7.5 MIN GRID MAP



4/10/2024, 4:24:29 PM

- TX Counties
- TCEQ_EDWARDS_OFFICIAL_MAPS
- DRAINAGE IMPROVEMENT SITE LOCATIONS
- Edwards Aquifer Boundary
- Edwards Aquifer Boundary central line
- 7.5 Minute Quad Grid



Austin Community College, City of Austin, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, TCEQ

Web AppBuilder for ArcGIS

Attachment C – Project Description

West Lake Hills Street Rehabilitation & Drainage Improvements proposes routine maintenance & improvements of existing streets & street drainage infrastructure. Drainage improvements include grading of the channel at (1) Rollingwood Dr & Las Lomas Dr intersection to improve stormwater conveyance into the existing culvert and minimize existing overflow into the roadway, and the addition of a roadside swale, driveway culverts, and valley gutters along the east side of (3) North Peak Dr to convey drainage, eliminate ponding and reduce erosion. Street Rehabilitations propose the routine maintenance of various sections of street located on the Edwards Aquifer Contributing Zone and Recharge Zone by Full Depth Repair, Mill & Overlay, Crack Seal, and surface preservation. Please Refer to *Form-0587 Attachment C.1 Construction Plans (Tab 2)* for street maintenance rehabilitation & drainage improvement plans.

Two non-routine street maintenance activities proposed are located on the Edwards Aquifer Recharge zone and are described in further detail below:

(1) DRAINAGE IMPROVEMENT: Rollingwood Dr & Las Lomas Dr Intersection - Regrade

- a. **DESCRIPTION:** Flow from Westbank Market discharges into a gravel bottom drainage channel towards the intersection of Las Lomas Drive and Rollingwood Drive. Just before the culvert under Rollingwood Drive, the flow becomes un-channelized and spreads out. A vegetated berm along Rollingwood Drive and Las Lomas Drive attempts to funnel the flow into the culvert entrance; however, the erosion of the berm along Las Lomas Drive allows flow to pass over the berm flooding the intersection with Rollingwood Drive. Grading improvements to the grass area immediately upstream of the existing culvert inlet to convey drainage at the intersection are proposed.
- b. **DETAILS:** Project site is located in the West Lake Hills Full Purpose Jurisdiction. The LOC include .32 acres (13,889 SF) located entirely within the Eanes Creek Watershed and designated Zone A, special flood hazard area with a 1% annual risk of a major flood. Furthermore, LOC are entirely within Westbank Market LP (1484007) privately owned property, the site and drainage improvement conveys a portion of Westbank Market Business and the Las Lomas residential community stormwater runoff and has been previously developed. The zoning district for the property the project lies on is B-1 Business 1 as classified by the City of West Lake Hills, . The site has an impervious cover area of 273SF and a pervious cover area of 13,617SF. no additional impervious cover is proposed. There is no demolition proposed.

(2) DRAINAGE IMPROVEMENT: North Peak Rd – Swale & Driveway Culverts

- a. **DESCRIPTION:** North Peak Road generally slopes from west to east with the lots on the west side lying on a local high point. The lack of roadside swales is causing ponding in the front yards of the properties on the east side of the roadway. In addition, the driveways do not provide conveyance causing the water to flow down the driveways. Construction of roadside swales to eliminate ponding in front residence yards on the east side of the roadway & the installation of driveway culverts or dips to convey flow. Mill & overlay is proposed for the entire street as maintenance.
- b. **DETAILS:** North Peak Road is located in the West Lake Hills Full Purpose Jurisdiction. The LOC consists of 1.37 acres, of which 58% within the Lady Bird Lake Watershed and 42% within the Eanes Creek Watershed. Project is entirely contained within the public right-of-way, the site is

previously developed, serving residential homes. The site does not lie within FEMA special flood hazard designations. 93 SY of additional impervious cover is proposed consisting of the additional concrete flume swale. The site has an impervious cover area of .89 acres, of which .77 are the street and .12 acres from driveways/ The pervious cover area of the site are .60 acres.

There are no permanent water quality BMPs proposed for this project & the scope includes maintenance activities in areas previously disturbed, the overall impervious cover will increase by 93 SY (.0193 ac).

Attachment C.1 - Construction Plans (Next Page)



WALTER P. MOORE AND ASSOCIATES, INC.
401 S 1ST ST., SUITE 600
AUSTIN, TEXAS 78704
512.330.1270

CONSTRUCTION PLANS FOR CITY OF WEST LAKE HILLS STREET REHABILITATION & DRAINAGE IMPROVEMENTS



Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



ENGINEER'S CERTIFICATION:

I, THE UNDERSIGNED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, THAT ALL REQUIRED DOCUMENTS ENCLOSED ARE ACCURATE AND COMPLETE AND THAT THE PROVISIONS CONTAINED ON THIS PLAN COMPLY WITH THE DEVELOPMENT OF ORDINANCES AND DRAINAGE POLICIES ADOPTED BY THE CITY OF WEST LAKE HILLS AND OTHER FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS IN EFFECT ON THIS DATE.

SUBMITTED FOR APPROVAL BY: *Susan Smith-Turrieta* 06-11-2024

SUSAN TURRIETA, PE DATE
WALTER P MOORE

APPROVED BY: _____ DATE

CITY OF WEST LAKE HILLS, TEXAS DATE

PROPERTY OWNER

911 WESTLAKE DRIVE,
WEST LAKE HILLS, TX 78746

CIVIL ENGINEER

WALTER P MOORE
401 S ST, SUITE 600,
AUSTIN, TX 78704

SURVEYOR

4 WARD LAND SURVEYING 4120
FREIDRICH LANE
SUITE 200, AUSTIN, TX 78744

GEOTECHNICAL ENGINEER

ROCK ENGINEERING & TESTING LABORATORY INC.
7 ROUNDVILLE LANE, ROUND ROCK,
TX 78664

**CITY OF WEST LAKE HILLS
POLICE DEPARTMENT**

911 WESTLAKE DR, WEST LAKE HILLS
TX 78746

WATERSHED

BEE CREEK
LITTLE BEE CREEK
LADY BIRD LAKE
EANES CREEK

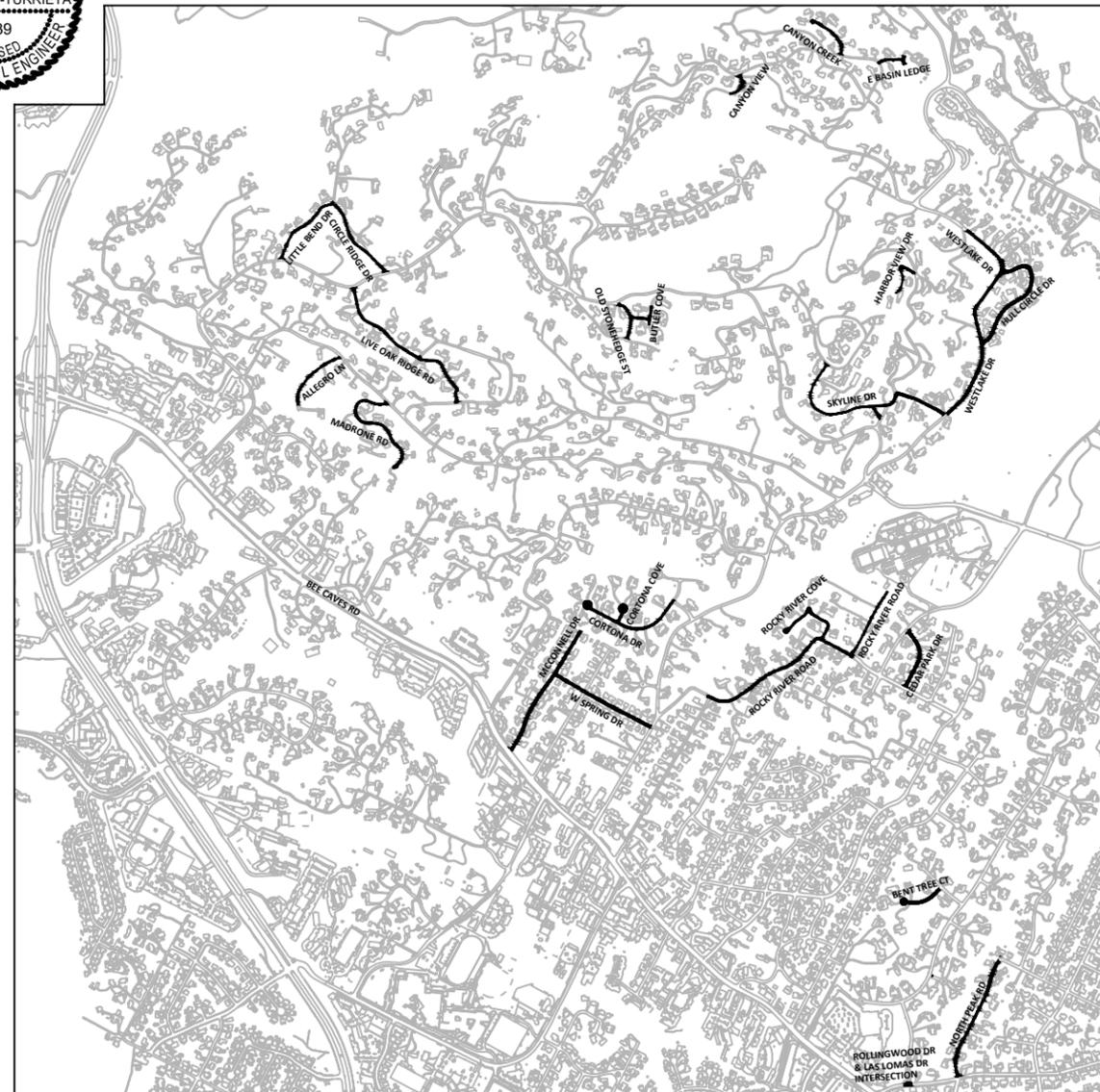
100-YR FLOODPLAIN

FIRM PANEL 48453C0440J &
48453C0445K,
DATED 01/22/2020

TRAFFIC CONTROL/PUBLIC SAFETY AND CONVENIENCE:

THIS PLAN SET DOES NOT INCLUDE A TEMPORARY TRAFFIC CONTROL STRATEGY FOR THE STREET REHABILITATION SCOPE WITH THE FULL UNDERSTANDING THAT, AT A MINIMUM OF 6 WEEKS PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CITY OF WEST LAKE HILLS.
THE FOLLOWING MUST BE TAKEN INTO CONSIDERATION WHEN DEVELOPING TEMPORARY TRAFFIC CONTROL STRATEGIES:

- AT A MINIMUM, ROADWAY SHALL BE PLATED EVERY EVENING
- NO LONG-TERM LANE CLOSURES WILL BE AUTHORIZED, UNLESS THE CITY OF WEST LAKE HILLS DETERMINES THAT ADEQUATE ACCOMMODATIONS HAVE BEEN MADE TO MINIMIZE TRAFFIC IMPACT.
- CONTRACTOR SHALL NOTIFY RESIDENTS IN THE VICINITY OF WORK TWO WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFICATION SHALL INCLUDE INFORMATION ABOUT CONSTRUCTION SCHEDULE AND ROAD CLOSURES.
- TO MINIMIZE IMPACTS TO RESIDENTS CONTRACTOR SHALL LIMIT THE NUMBER OF VEHICLES, EQUIPMENT, AND MATERIALS ON SITE AT ALL TIMES.



VICINITY MAP

NOT TO SCALE

JUNE 2024

**STREET
REHABILITATION/MAINTENANCE
SHEETS**

INDEX OF SHEETS	
Sheet Number	Sheet Title
C1.0	COVER
C2.0	GENERAL NOTES
C2.1	GENERAL NOTES
C3.0	OVERALL LAYOUT & KEY MAP
C4.0	OLD STONEHEDGE
C5.0	CEDAR PARK DR
C5.1	CEDAR PARK DR
C6.0	ALLEGRO LN
C6.1	ALLEGRO LN
C7.0	BASIN LEDGE EAST
C8.0	CANYON VIEW
C9.0	ROCKY RIVER ROAD
C9.1	ROCKY RIVER ROAD
C9.2	ROCKY RIVER ROAD
C9.3	ROCKY RIVER ROAD
C10.0	BUTLER COVE
C11.0	HARBOR VIEW DR
C12.0	HULL CIRCLE DR
C12.1	HULL CIRCLE DR
C13.0	LIVE OAK RIDGE ROAD
C13.1	LIVE OAK RIDGE ROAD
C13.2	LIVE OAK RIDGE ROAD
C14.0	MADRONE RD
C14.1	MADRONE RD
C15.0	PARKWOOD COURT
C16.0	ROCKY RIVER COVE
C16.1	ROCKY RIVER COVE
C17.0	WESTLAKE DRIVE
C17.1	WESTLAKE DRIVE
C17.2	WESTLAKE DRIVE
C17.3	WESTLAKE DRIVE
C18.0	CANYON CREEK
C19.0	CIRCLE RIDGE DR
C19.1	CIRCLE RIDGE DR
C20.0	CORTONA COVE
C21.0	CORTONA DR
C21.1	CORTONA DR
C22.0	LITTLE BEND RD
C22.1	LITTLE BEND RD
C23.0	MCCONNELL DR
C23.1	MCCONNELL DR
C24.0	SKYLINE DR
C24.1	SKYLINE DR
C24.2	SKYLINE DR
C25.0	WEST SPRING DR
C25.1	WEST SPRING DR
C26.0	DETAILS
C26.1	DETAILS
C26.2	DETAILS
C26.3	EROSION CONTROL DETAIL
C26.4	TRAFFIC CONTROL DETAIL
C26.5	TRAFFIC CONTROL DETAIL
C26.6	PAVEMENT STRIPING DETAIL
C26.7	PAVEMENT STRIPING DETAIL
C26.8	PAVEMENT STRIPING DETAIL
C26.9	PAVEMENT STRIPING DETAIL

C27.0	BENT TREE CT - SURVEY PLAN
C27.1	BENT TREE CT - DEMOLITION PLAN
C27.2	BENT TREE CT - EROSION CONTROL PLAN
C27.3	BENT TREE CT - PAVEMENT PLAN
C27.4	BENT TREE CT - DRAINAGE PLAN
C27.5	BENT TREE CT - TRAFFIC CONTROL PLAN
C28.0	ROLLINGWOOD DR - SURVEY PLAN
C28.1	ROLLINGWOOD DR - GRADING & DRAINAGE PLAN
C28.2	ROLLINGWOOD DR - EROSION CONTROL PLAN
C29.0	NORTH PEAK RD - SURVEY PLAN
C29.1	NORTH PEAK RD - SURVEY PLAN
C29.2	NORTH PEAK RD - DEMOLITION PLAN
C29.3	NORTH PEAK RD - DEMOLITION PLAN
C29.4	NORTH PEAK RD - GRADING PLAN
C29.5	NORTH PEAK RD - GRADING PLAN
C29.6	NORTH PEAK RD - PAVING PLAN
C29.7	NORTH PEAK RD - PAVING PLAN
C29.8	NORTH PEAK RD - EXISTING DRAINAGE AREA MAP
C29.9	NORTH PEAK RD - PROPOSED DRAINAGE AREA MAP
C30.0	NORTH PEAK RD - EROSION CONTROL PLAN
C30.1	NORTH PEAK RD - EROSION CONTROL PLAN
C30.2	NORTH PEAK RD - TRAFFIC CONTROL PLAN
C30.3	NORTH PEAK RD - TRAFFIC CONTROL PLAN

TCEQ:

C28.0-C28.2 SHEETS FOR ROLLINGWOOD & LAS LOMAS INTERSECTION DRAINAGE IMPROVEMENT

C29.1-C30.3 SHEETS FOR NORTH PEAK RD DRAINAGE IMPROVEMENT



Know what's below.
Call before you dig.

COVER

C1.0

GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION METHODS FOR SITE GRADING, PAVING, SITEMWORK, AND DRAINAGE SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF AUSTIN STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH THE BUILDING CODES, ORDINANCES, SAFETY CODES, AND RULES AND PROCEDURES OF THE CITY OF WEST LAKE HILLS.
- ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF WEST LAKE HILLS MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
- BLASTING OR BURNING SHALL NOT BE PERMITTED ON THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER IMMEDIATELY. THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR REVISING THE PLANS AS APPROPRIATE AND SUBMITTING A REVISION TO THE CITY.
- CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL, SEDIMENT, AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL, SEDIMENT, OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER, ONLY SHOVELING AND SWEEPING WILL BE ALLOWED. CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE.
- ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., NOT PLANNED FOR DESTRUCTION OR REMOVAL OR OTHER PUBLIC INFRASTRUCTURE DAMAGED OR REMOVED WILL BE BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE PROJECT.
- AFTER THE CONSTRUCTION PERMIT HAS BEEN ISSUED AND PRIOR TO THE BEGINNING CONSTRUCTION, THE OWNER OR HIS REPRESENTATIVE SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY OF WEST LAKE HILLS, DESIGN ENGINEER, CONTRACTOR(S), OTHER UTILITY COMPANIES, AND ANY OTHER AFFECTED PARTIES. THE CITY OF WEST LAKE HILLS SHALL BE CONTACTED TO SET UP THE MEETING AT LEAST 48 HOURS PRIOR TO THE PROPOSED MEETING TIME.
- ANY CHANGES OR REVISIONS TO THESE APPROVED PLANS MUST BE SUBMITTED BY THE DESIGN ENGINEER AND APPROVED BY THE CITY OF WEST LAKE HILLS PRIOR TO CONSTRUCTION OF THE REVISION.

TRENCH SAFETY NOTES

- IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT WILL BE PROVIDED BY THE CONTRACTOR.
- IN ACCORDANCE WITH THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN PERSONS ARE IN TRENCHES 4-FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.

STREET AND DRAINAGE NOTES

- ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS. TESTING SHALL BE COORDINATED WITH THE CITY INSPECTOR AND HE SHALL BE GIVEN A MINIMUM OF 24-HOUR NOTICE PRIOR TO ANY TESTING.
- BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 85% MAXIMUM DENSITY TO WITHIN 3 INCHES OF THE TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 3 INCHES IN THE GREATEST DIMENSION. THE REMAINING 3 INCHES SHALL BE CLEAN TOPSOIL FREE FROM ALL CLOUDS AND SUITABLE FOR SUSTAINING PLANT LIFE.
- ALL RCP SHALL BE MINIMUM CLASS III.
- THE SUBGRADE MATERIAL FOR THE STREETS SHOWN HEREIN WAS TESTED BY ROCK ENGINEERING AND TESTING LABORATORY, LLC THE PAVING SECTIONS WERE DESIGNED ROCK ENGINEERING AND TESTING LABORATORY, LLC IN ACCORDANCE WITH THE CURRENT CITY OF WEST LAKE HILLS DESIGN CRITERIA.
- THE FEMA MAPS FOR THE CITY OF WEST LAKE HILLS, TEXAS, INDICATE THAT THE PROPERTY SHOWN HEREON DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY FIRM PANEL 48453C0440J & 48453C0445K, DATED 01/22/2020 .

TRAFFIC MARKING NOTES

- BARRICADES BUILT TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
- ANY METHODS, STREET MARKINGS, AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS, OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
- ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS, AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

EROSION CONTROL NOTES

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION). THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE CURRENT CITY WEST LAKE HILLS DRAINAGE AND EROSION CONTROL MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES, OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
- ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE ENGINEER. MAJOR REVISIONS MUST BE APPROVED BY THE CITY. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE CITY INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER ANY RAINFALL EVENT TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION AND APPROVAL OF THE PROJECT BY THE CITY INSPECTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE EACH STRUCTURE AS APPROVED BY THE CITY INSPECTOR.
- PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 SEEDING DOES NOT CONSTITUTE AS STABILIZATION.
- STRIPPING OF VEGETATION FROM PROJECT SITES SHALL BE PHASED SO AS TO EXPOSE THE MINIMUM AMOUNT OF AREA TO SOIL EROSION FOR THE SHORTEST POSSIBLE PERIOD OF TIME PER THE DRAINAGE AND EROSION CONTROL DESIGN MANUAL SEC.7.1(L).
- PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.

GRADING NOTES

- STRIP AND REMOVE ALL SURFACE ORGANIC, TOPSOIL AND UNSUITABLE MATERIALS FROM ALL BUILDING AND PAVING AREAS. TREE STUMPS INCLUDING THE ROOT SYSTEM SHOULD BE REMOVED.
- ESTABLISH POSITIVE SITE DRAINAGE.
- COMPACT THE SUBGRADE TO A MINIMUM OF NINETY FIVE (95) PERCENT OF ITS MAX. DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698). REFER TO GEOTECH REPORT FOR SITE PREPARATION RECOMMENDATIONS.
- ALL SPOT GRADES SHOWN ARE FOR TOP (TP) OF PAVEMENT UNLESS OTHERWISE NOTED.

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- TOPOGRAPHIC INFORMATION IS TAKEN FROM A COMBINATION OF EXISTING CITY OF AUSTIN GIS DATA AND TOPOGRAPHIC SURVEYS FROM 4WARD LAND SURVEYING DATED 3/12/2024 (N PEAK DR), 2/29/2024 (LAS LOMAS DR), AND 2/28/2024 (BENT TREE CT). IF THE CONTRACTOR DOES NOT ACCEPT THE TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- REFER TO GEOTECHNICAL REPORT BY CORSAIR CONSULTING LLC, DATED: MAY 2, 2017 FOR SITE PREPARATION AND RECOMMENDATIONS.



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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
 TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO.		
C02-23011-00		
DESIGNED BY	REVIEWED BY	DRAWN BY
ZS/ESM	SST	AC
ORIGINAL ISSUE	DATE	
	06-10-2024	

GENERAL NOTES

X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-GN.dwg Jun 11, 2024 - 11:15am

CONSTRUCTION SEQUENCING:

1. INSTALL TRAFFIC CONTROL MESSAGE BOARDS WITHIN TWO WEEKS OF CONSTRUCTION ACTIVITIES WITH MESSAGE APPROVED BY THE CITY OF WEST LAKE HILLS.
2. INSTALL TRAFFIC CONTROL.
3. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL.
4. THE CONTRACTOR SHALL ARRANGE AND COORDINATE ACCEPTABLE MEETING TIMES FOR AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE OWNER, PROJECT ENGINEER, RELEVANT CONTRACTORS, RELEVANT UTILITY REPRESENTATIVES, AND THE CITY ENGINEER. AT THIS MEETING, THE CITY SHALL VERIFY THAT ALL EROSION AND SEDIMENT CONTROLS ARE IN PLACE, THAT CONSTRUCTION DRAWINGS ARE LOCATED ON SITE, THE CITY MAY THEN ISSUE THE SUBDIVISION IMPROVEMENT PERMIT.
5. CONTRACTOR TO CONDUCT PRECONSTRUCTION SITE SURVEY PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL SUBMIT PROJECT SCHEDULE TO BE APPROVED BY THE PROJECT MANAGER. INSTALLATION AND REMOVAL OF TEMPORARY AND PERMANENT EROSION & SEDIMENTATION CONTROLS MUST BE REFLECTED IN THE SCHEDULE, BY STATION NUMBER.INSPECTOR MUST BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
7. PROTECT OR REMOVE TRAFFIC SIGNS AND STORE. REMOVE SPEED BUMPS AND STORE.
8. CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF ACCESS IS LIMITED.
9. COMMENCE CONSTRUCTION OF DRAINAGE IMPROVEMENTS & STREET REHABILITATIONS. COMPLETE DRAINAGE IMPROVEMENTS BEFORE COMMENCING STREET REHABILITATIONS ON DRAINAGE IMPROVEMENT SITES.
10. COMMENCE PAVEMENT MILLING. PAVEMENT TO BE MILLED TO DEPTH SPECIFIED BY BID ITEM.
11. PLACE AND STABILIZE THE 10" FLEXIBLE BASE.
12. RAISE MANHOLE RINGS AND VALVE COVERS TO GRADE AND INSTALL CONCRETE DIAMOND.
13. PLACE 2" HMAC TYPE "C".
14. OBTAIN CITY APPROVAL FOR TOPSOIL.
15. REHAB SHOULDERS WITH COMPACTED TOPSOIL.
16. REHAB ROADSIDE DRAINAGE SWALES.
17. REINSTALL TRAFFIC SIGNS.
18. RESTORE AND REVEGETATE ALL DISTURBED AREAS.
19. PLACE PAVEMENT STRIPPING AND MARKINGS, REINSTALL REMOVED TRAFFIC SPEED BUMP.
20. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.
21. COMPLETE ANY NECESSARY FINAL DRESS UP OF ALL DISTURBED AREAS.
22. REMOVE TRAFFIC CONTROL.
23. PROJECT ENGINEER SHALL INSPECT PROJECT SITE AND ISSUE PUNCH LIST AS NECESSARY AND ISSUE A LETTER OF CONCURRENCE ONCE PROJECT IS IN CONFORMANCE WITH PROJECT PLANS AND SPECIFICATIONS.
24. CITY SHALL VISIT SITE AND ISSUES CERTIFICATE OF ACCEPTANCE ONLY IF ALL CONSTRUCTION IS IN SUBSTANTIAL CONFORMANCE TO THE PLANS.



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06-11-2024

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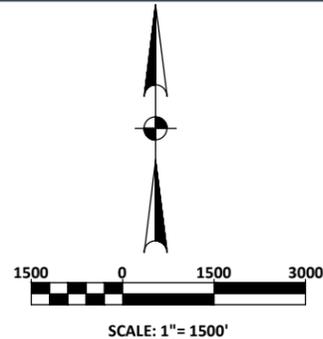
GENERAL NOTES

C2.1



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NOTES:

1. PAVEMENT SHAPES AND RIGHT OF WAY ARE ESTIMATED BASED UPON CITY OF AUSTIN GIS DATA.
2. PAVEMENT RESURFACING QUANTITIES, FULL DEPTH REPAIR, SURFACE PRESERVATION, CRACK SEALING & ASPHALT OVERLAY AND CRACK SEALING LOCATIONS ARE APPROXIMATE AND ARE BASED ON CITY OF AUSTIN GIS DATA.
3. THE FINAL LIMITS OF PAVEMENT REPAIR WILL BE IDENTIFIED DURING THE PROJECT WALK THROUGH AS DIRECTED BY THE CITY AND THE ENGINEER.
4. EXISTING SIGNS SHALL REMAIN.
5. CONTRACTOR TO ENSURE PAVEMENT IS MILLED TO DEPTH SPECIFIED BY BID ITEM.
6. DRIVEWAY LOCATIONS ARE ESTIMATED BASED UPON AUSTIN GIS DATA.
7. CITY OF WEST LAKE HILL CONSTRUCTION HOURS ARE 7AM-6PM. CONSTRUCTION WORK ON SUNDAYS AND CITY HOLIDAYS IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY ADMINISTRATOR.

SHEET NUMBERS	STREET	PROJECT LIMITS
C4.0	OLD STONEHEDGE	REDBUD TRL - BUTLER CV
C5.0-C5.1	CEDAR PARK DR	OAK RIDGE DR - FOREST VIEW DR
C6.0-C6.1	ALLEGRO LN	YAUPON VALLEY - END
C7.0	BASIN LEDGE EAST	BASIN LEDGE - END
C8.0	CANYON VIEW	TERRACE MTN - END
C9.0-C9.3	ROCKY RIVER ROAD	REVEILLE RD - END
C10.0	BUTLER CV	OLD STONEHEDGE - END
C11.0	HARBOR VIEW DR	WILDCAT HOLLOW - END
C12.0-C12.1	HULL CIR	WESTLAKE DR - WESTLAKE DR
C13.0-C13.2	LIVE OAK RIDGE RD	REDBUD TRL - LIVE OAK CIRCLE
C14.0-C14.1	MADRONE RD	YAUPON VALLEY - END
C15.0	PARKWOOD CT	LAS LOMAS DR - END
C16.0-C16.1	ROCKY RIVER CV	ROCKY RIVER RD - END
C17.0-C17.3	WESTLAKE DRIVE	SKYLINE DR - HARBOR VIEW
C18.0	CANYON CREEK	BASIN LDG - END
C19.0-C19.1	CIRCLE RIDGE DR	LITTLE BEND RD - REDBUD TRL
C20.0	CORTONA CV	CORTONA DR - END
C21.0-C21.1	CORTONA DR	CARRARA - END
C22.0-C22.1	LITTLE BEND RD	REDBUD TRL - CIRCLE RIDGE DR
C23.0-C23.1	MC CONNELL DR	BEE CAVE RD - END
C24.0-C24.2	SKYLINE DR	NOB HILL CIR - WESTLAKE DR
C25.0-C25.1	WEST SPRING DR	MC CONNELL - WESTLAKE DR
C27.0-C27.5	BENT TREE CT	HILLCREST CT - END
C28.0-C28.2	LAS LOMAS & ROLLINGWOOD DR	WESTBANK MARKET - ROLLINGWOOD DR & LAS LOMAS INTERSECTION
C29.0-C30.3	NORTH PEAK RD	ROLLINGWOOD DR - GENTRY DR

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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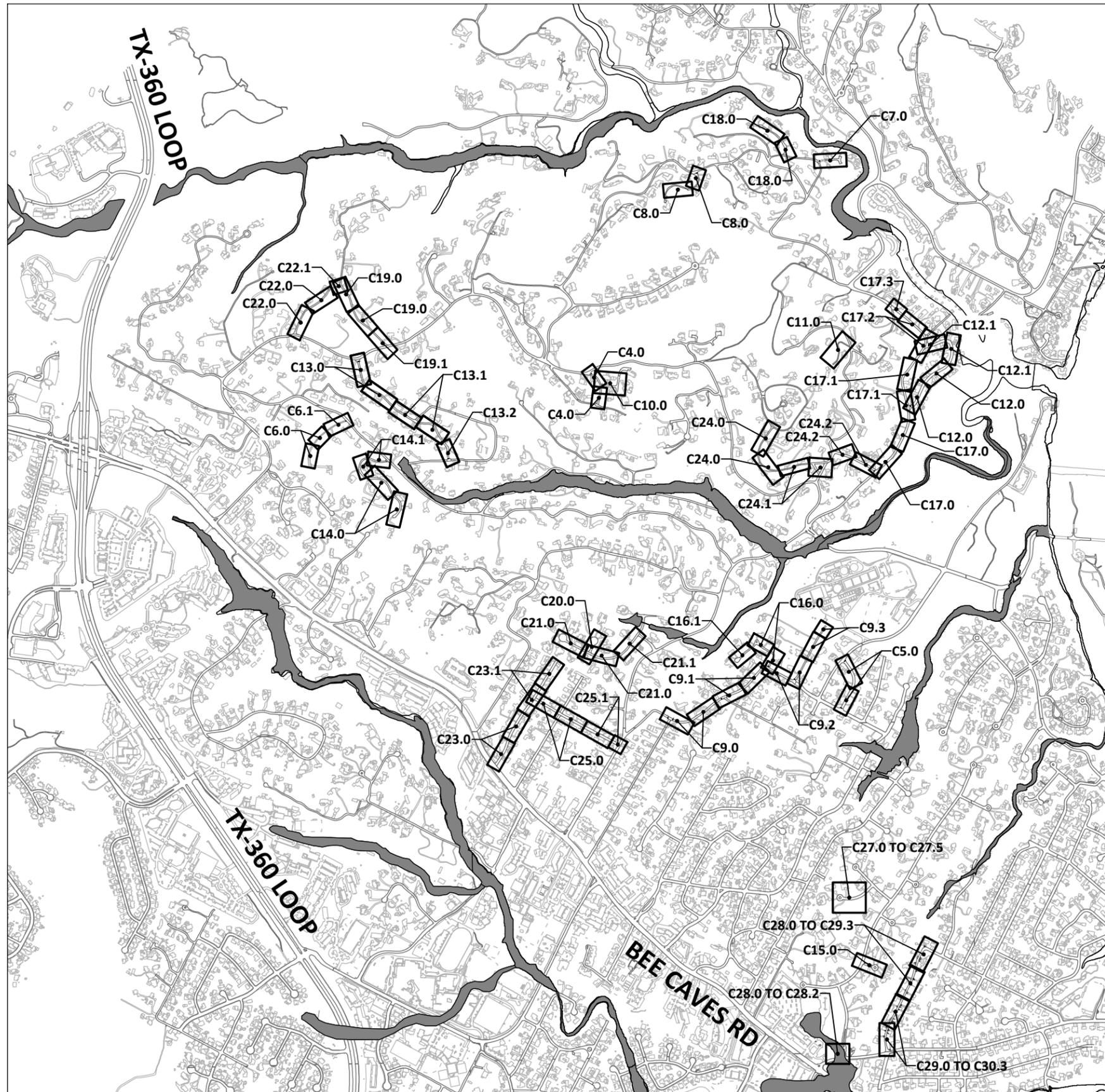
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OVERALL LAYOUT & KEY MAP

C3.0

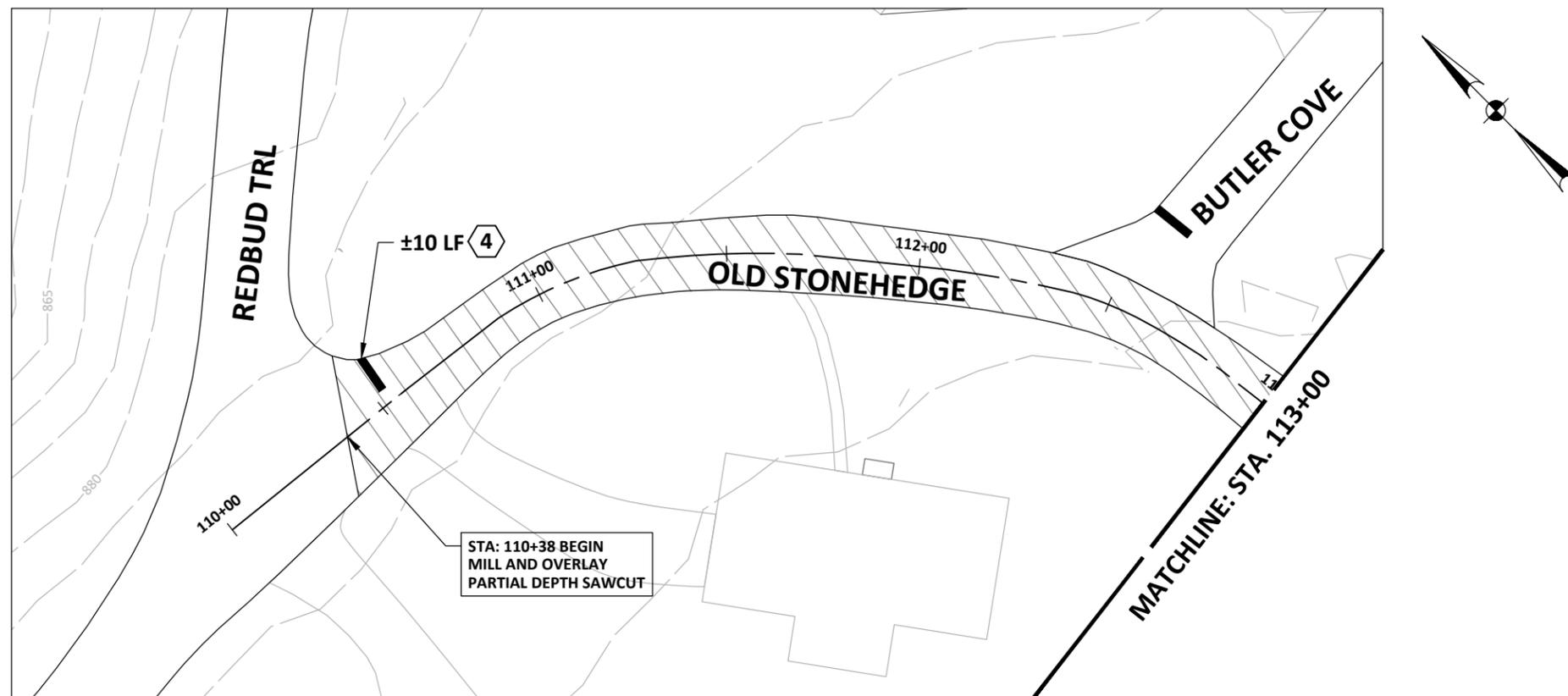
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LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

SHEET NOTES

- PAVEMENT SHAPES AND RIGHT-OF-WAY ARE ESTIMATED BASED ON SURVEY DATA SUPPLEMENTED WITH CITY OF AUSTIN GIS DATA. ACTUAL WIDTHS MAY VARY FROM DIMENSIONS SHOWN ON PLANS.
- PAVEMENT RESURFACING QUANTITIES, PATCH REPAIR, AND CRACK SEALING LOCATIONS ARE APPROXIMATE. FINAL LIMITS WILL BE IDENTIFIED DURING THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.
- STRIPING TO MATCH EXISTING STRIPING.
- CONTRACTOR TO PROVIDE ADEQUATE TRAFFIC CONTROL TO ENSURE SAFETY OF VEHICLES AND MAINTAIN ACCESS TO ROADWAY FOR LOCAL TRAFFIC.

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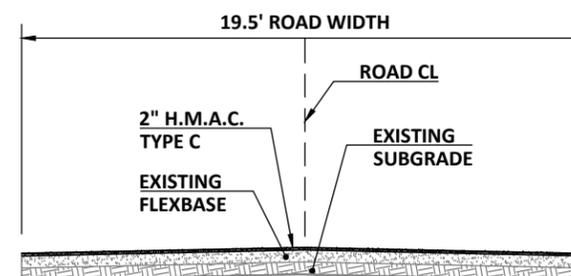
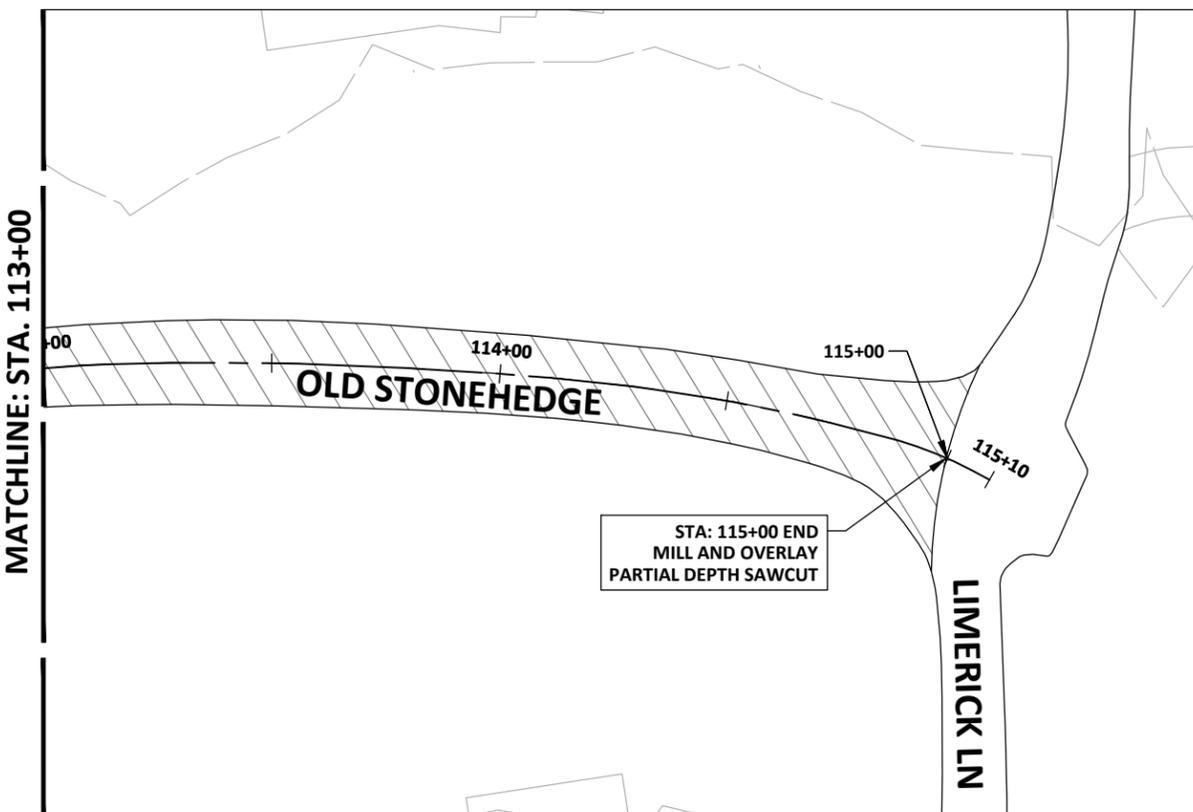
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STRIPING KEY NOTES

- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- ③ 4" SOLID WHITE EDGE LINE
- ④ 24" SOLID WHITE STOP LINE



- NOTES:
- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
 - MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - OLD STONEHEDGE

NTS

OLD STONEHEDGE

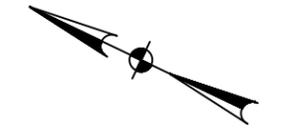
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SCALE: 1" = 40'

LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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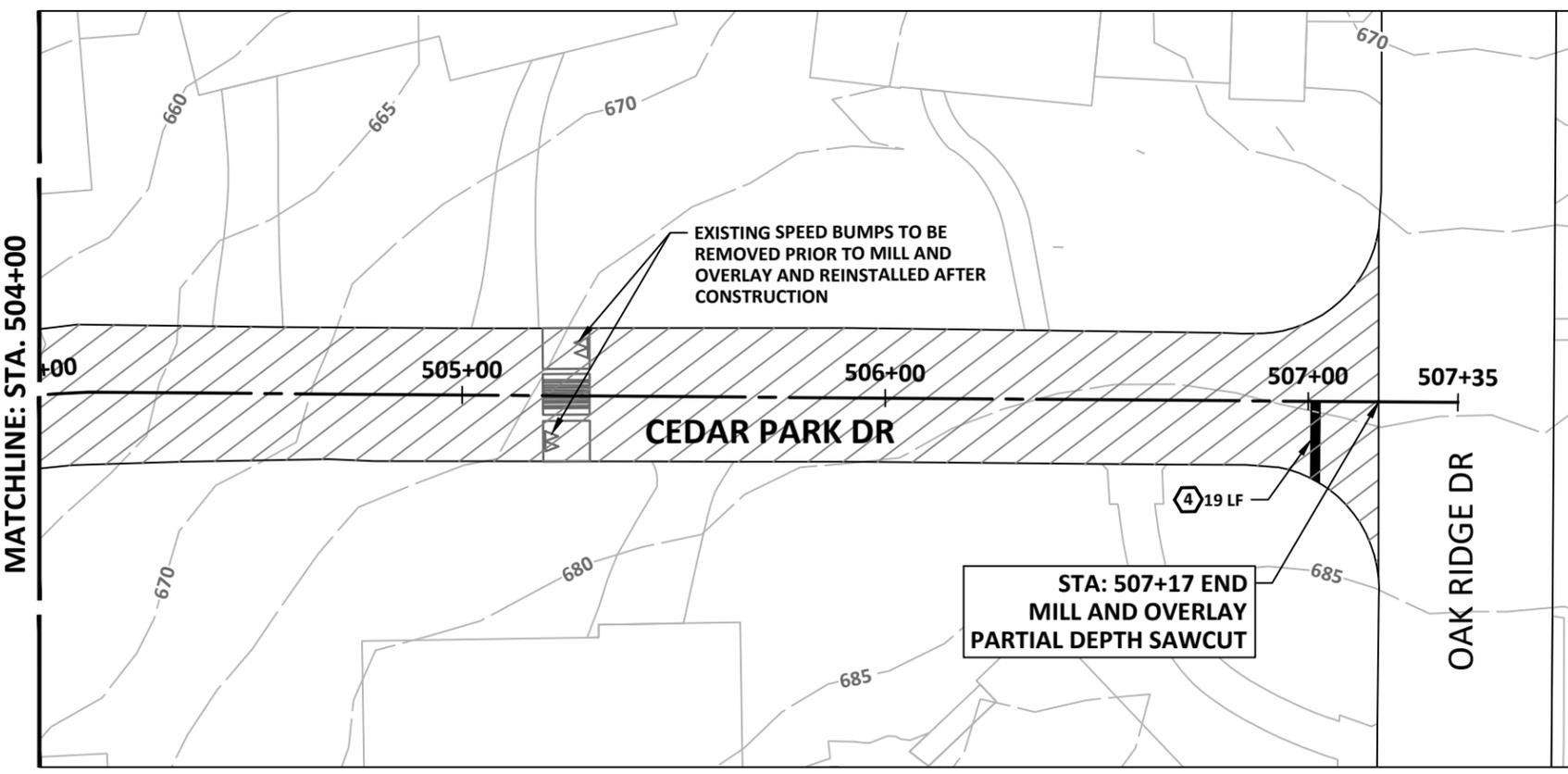
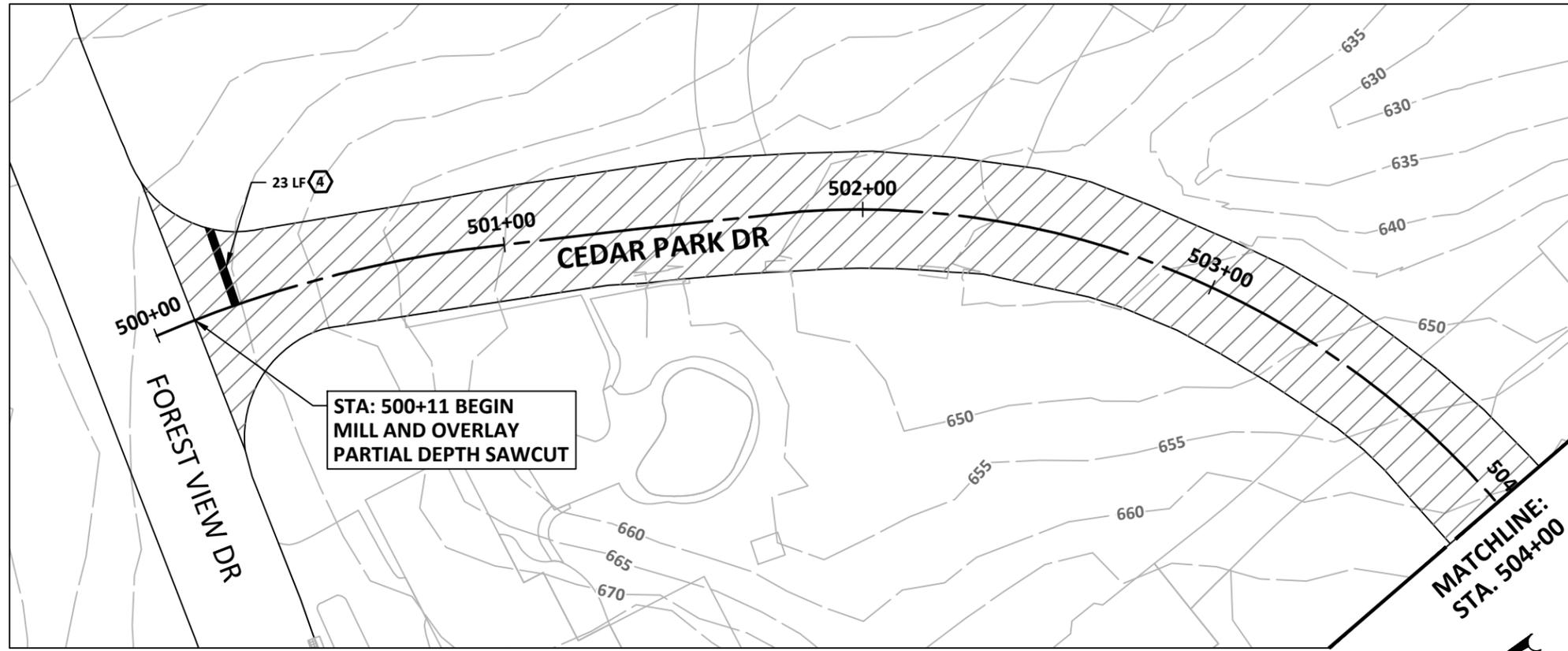
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- ### STRIPING KEY NOTES
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 - 4" SOLID WHITE EDGE LINE
 - 24" SOLID WHITE STOP LINE

CEDAR PARK DR

C5.0

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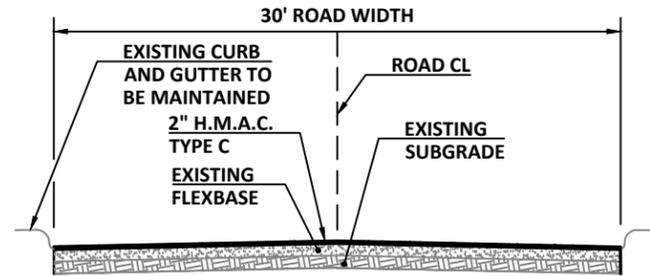


Jun 11, 2024 - 11:17am X:\C02\2023\23011-00_2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\C02-23011-00-DRNG - CEDAR PARK - PAV.dwg



Walter P. Moore and Associates, Inc.
 401 S 1st St., Suite 600
 Austin, Texas 78704

512.330.1270



NOTES:

1. EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
2. MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - CEDAR PARK DR

NTS

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
 TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO.		
C02-23011-00		
DESIGNED BY	REVIEWED BY	DRAWN BY
ZS/ESM	SST	AC
ORIGINAL ISSUE	DATE	
	06-10-2024	

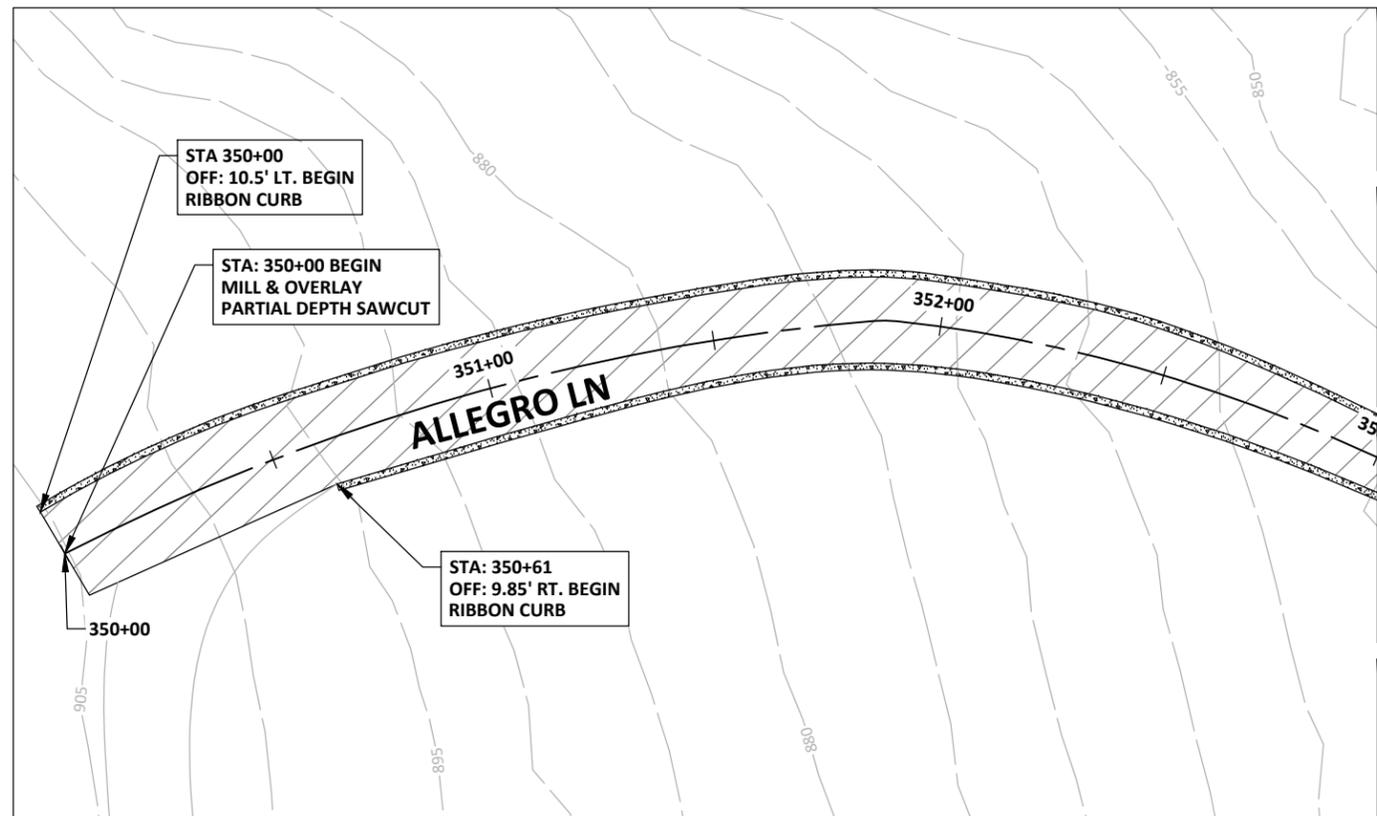
CEDAR PARK DR

C5.1



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Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

SHEET NOTES

- PAVEMENT SHAPES AND RIGHT-OF-WAY ARE ESTIMATED BASED ON SURVEY DATA SUPPLEMENTED WITH CITY OF AUSTIN GIS DATA. ACTUAL WIDTHS MAY VARY FROM DIMENSIONS SHOWN ON PLANS.
- PAVEMENT RESURFACING QUANTITIES, PATCH REPAIR, AND CRACK SEALING LOCATIONS ARE APPROXIMATE. FINAL LIMITS WILL BE IDENTIFIED DURING THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.
- STRIPING TO MATCH EXISTING STRIPING.
- ALTERNATE BID LAYDOWN CURB

STRIPING KEY NOTES

- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- ③ 4" SOLID WHITE EDGE LINE
- ④ 24" SOLID WHITE STOP LINE

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TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

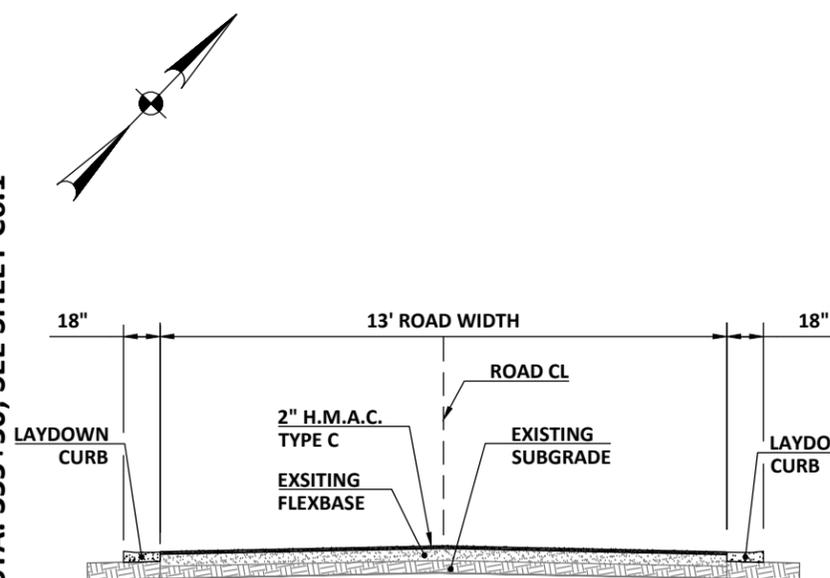
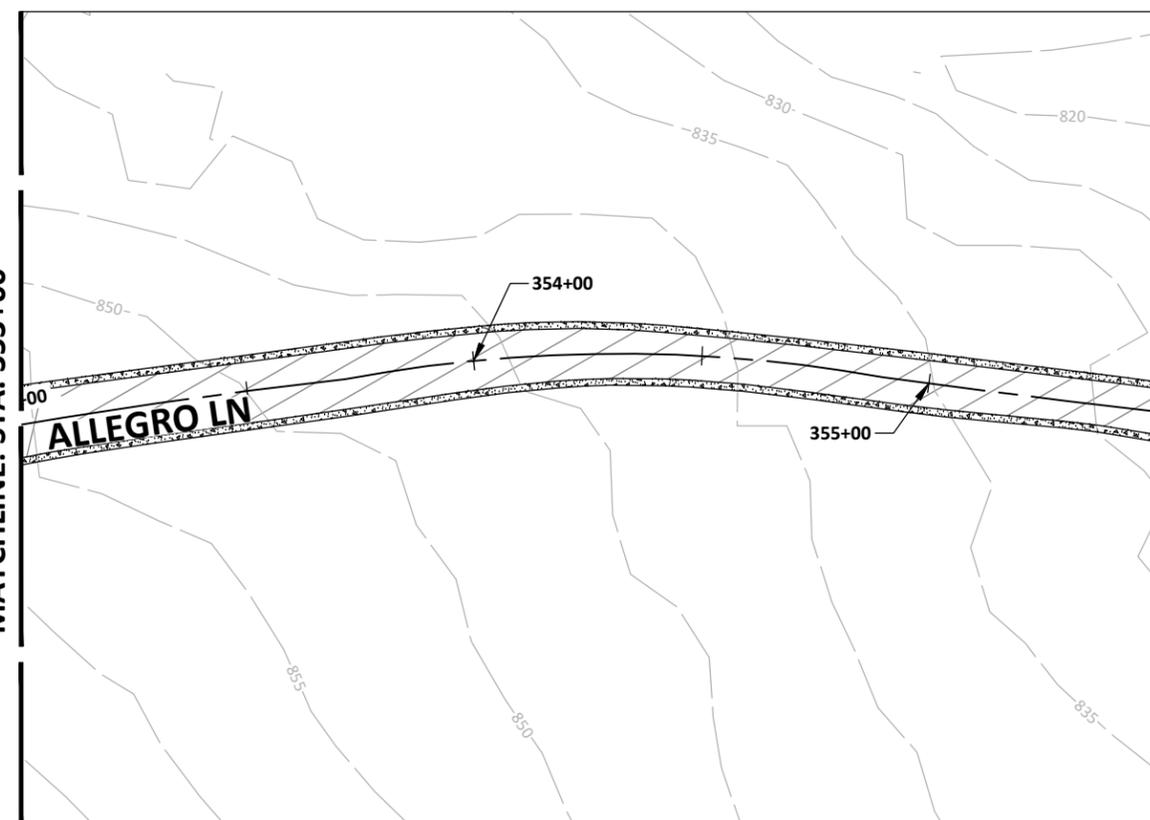
NO.	DATE	REVISION

PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE	06-10-2024

ALLEGRO LN

C6.0

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- NOTES:
- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
 - MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - ALLEGRO LN
NTS

MATCHLINE: STA. 355+50; SEE SHEET C6.1

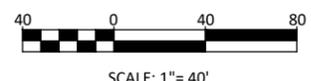
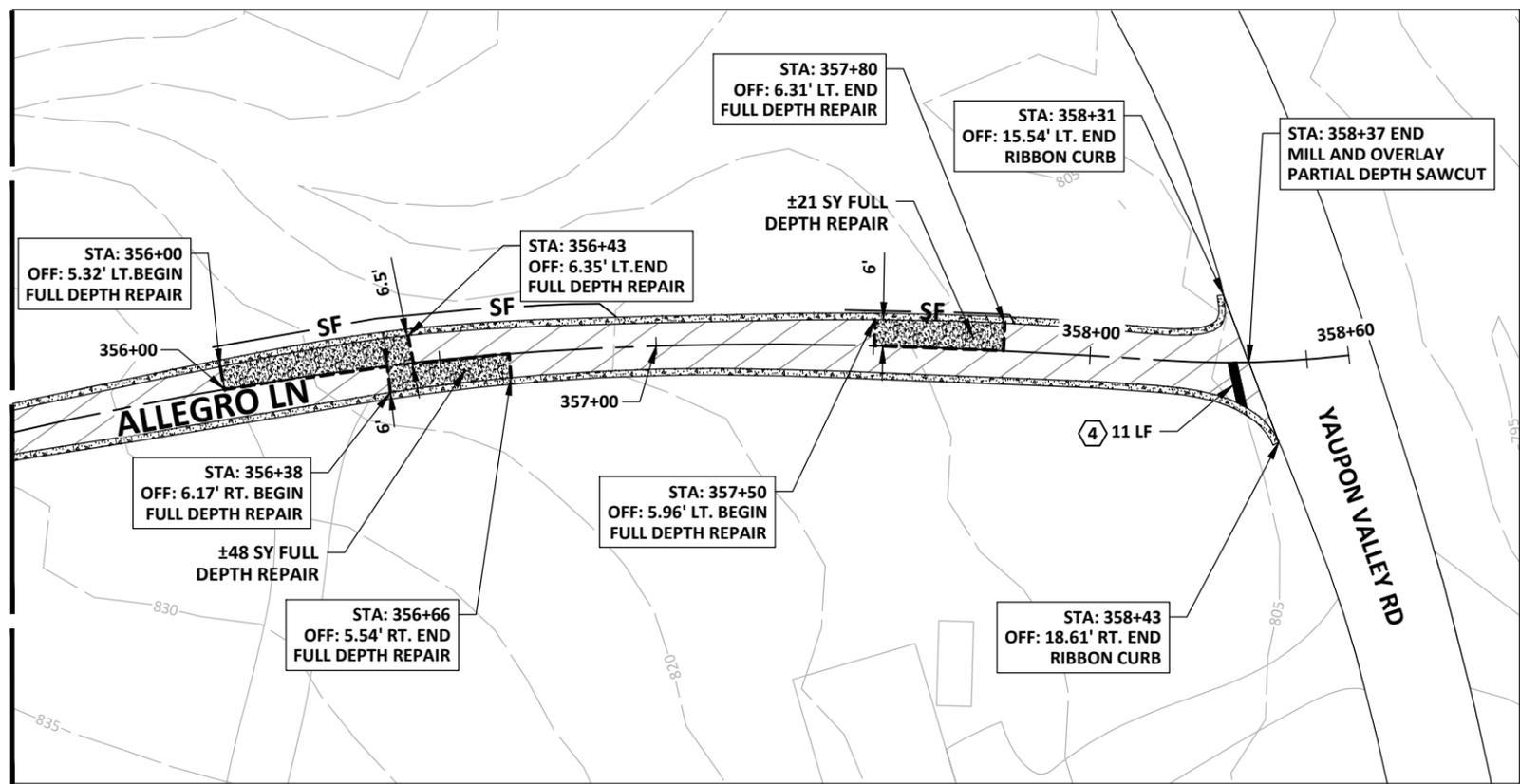
MATCHLINE: STA. 353+00



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270

MATCHLINE: STA. 355+50; SEE SHEET C6.0



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

SHEET NOTES

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- ALTERNATE BID LAYDOWN CURB

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TBPE Firm Registration No. 1856



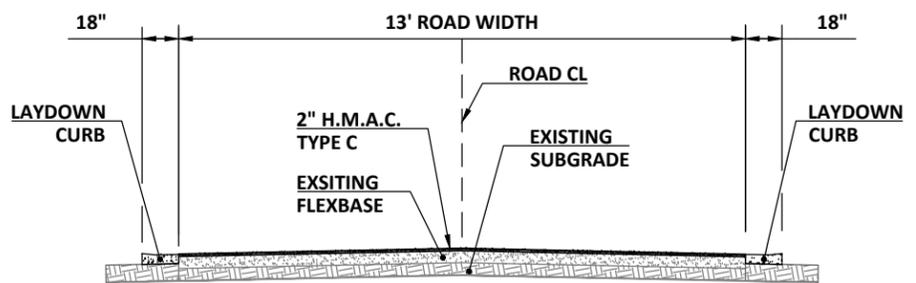
06-11-2024
Susan Smith-Turrieta

NO.	DATE	REVISION

STRIPING KEY NOTES

- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- ③ 4" SOLID WHITE EDGE LINE
- ④ 24" SOLID WHITE STOP LINE

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		



- NOTES:
- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
 - MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - ALLEGRO LN
NTS

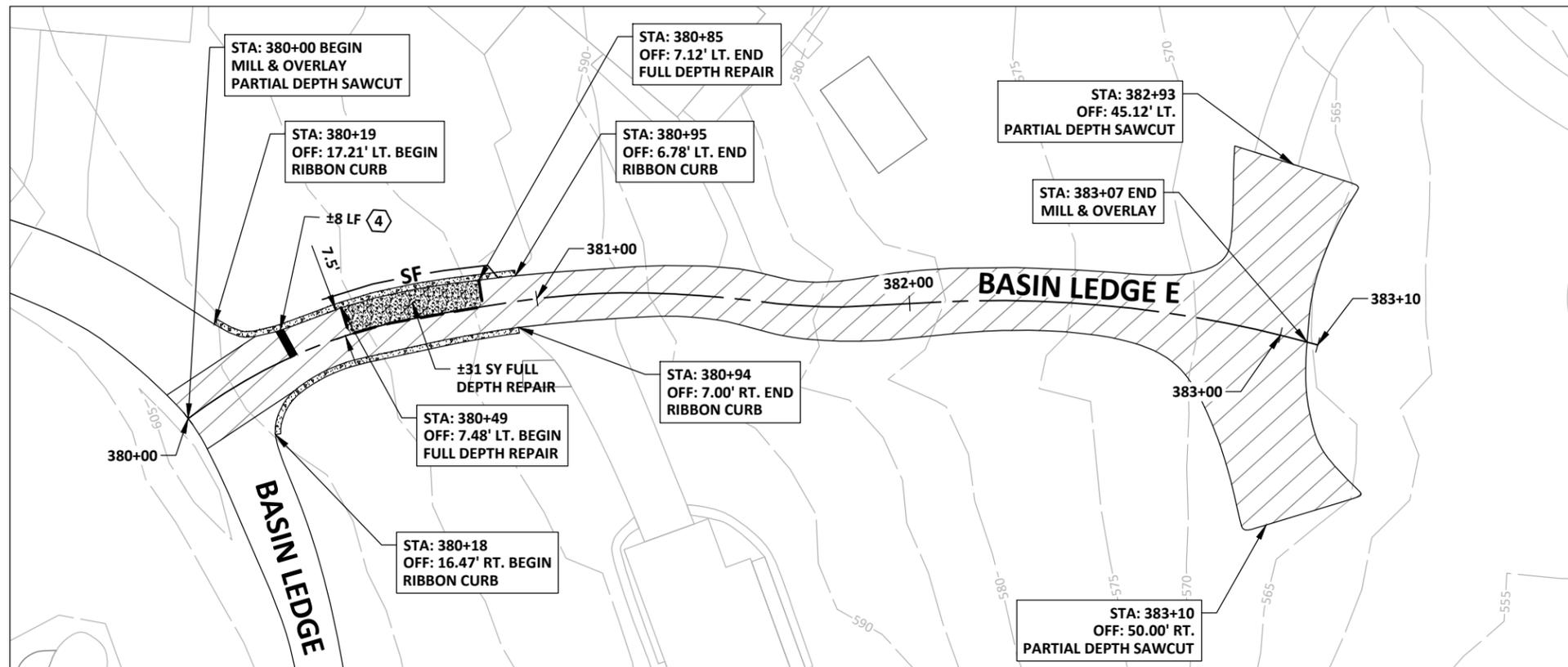
ALLEGRO LN

C6.1



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Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

SHEET NOTES

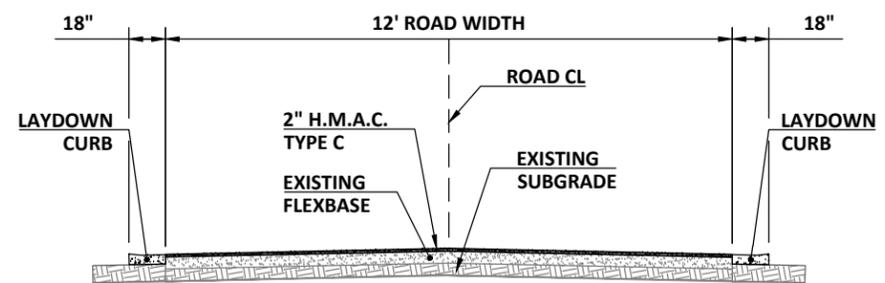
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- STRIPING TO MATCH EXISTING STRIPING
- ALTERNATE BID LAYDOWN CURB

NO.	DATE	REVISION

STRIPING KEY NOTES

- 4" SOLID DOUBLE YELLOW LINE
- 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- 4" SOLID WHITE EDGE LINE
- 24" SOLID WHITE STOP LINE

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		



- NOTES:
- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
 - MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - BASIN LEDGE EAST NTS

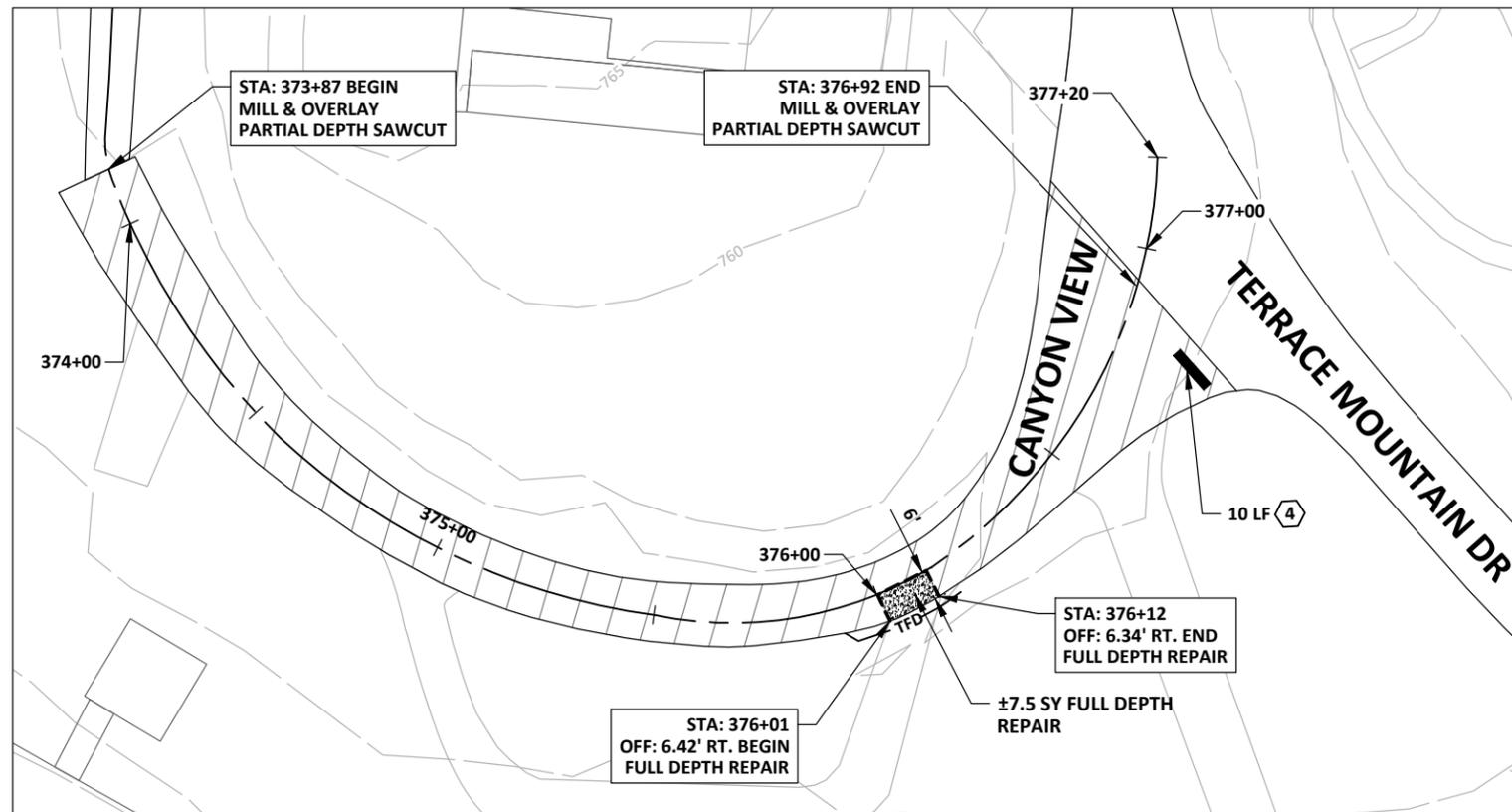
BASIN LEDGE EAST

C7.0



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Austin, Texas 78704

512.330.1270



LEGEND	
---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND	
[Stippled pattern]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal lines]	2" MILL AND OVERLAY
[Horizontal lines]	CRACK SEAL
[Dotted pattern]	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

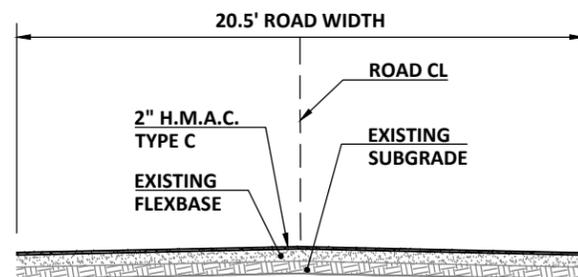
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STRIPING KEY NOTES

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- 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
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PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
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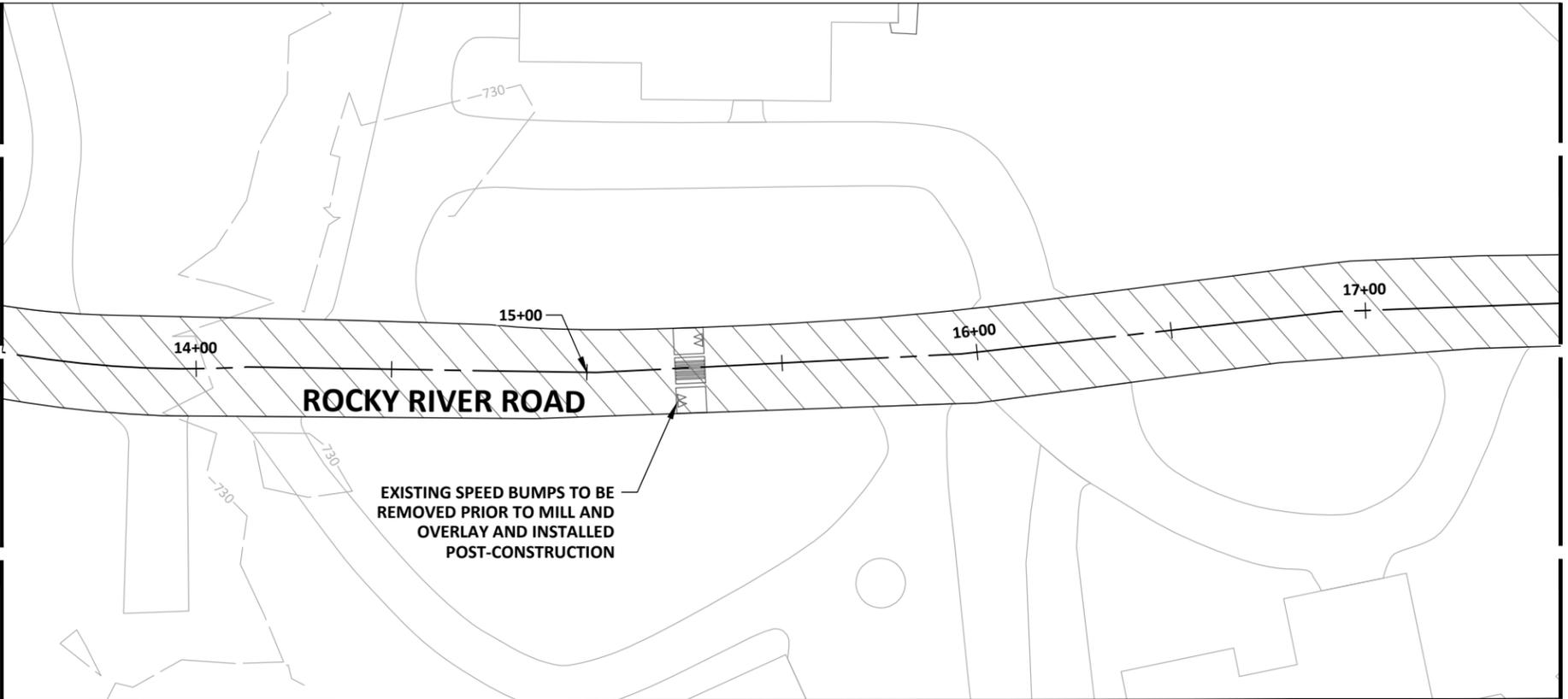
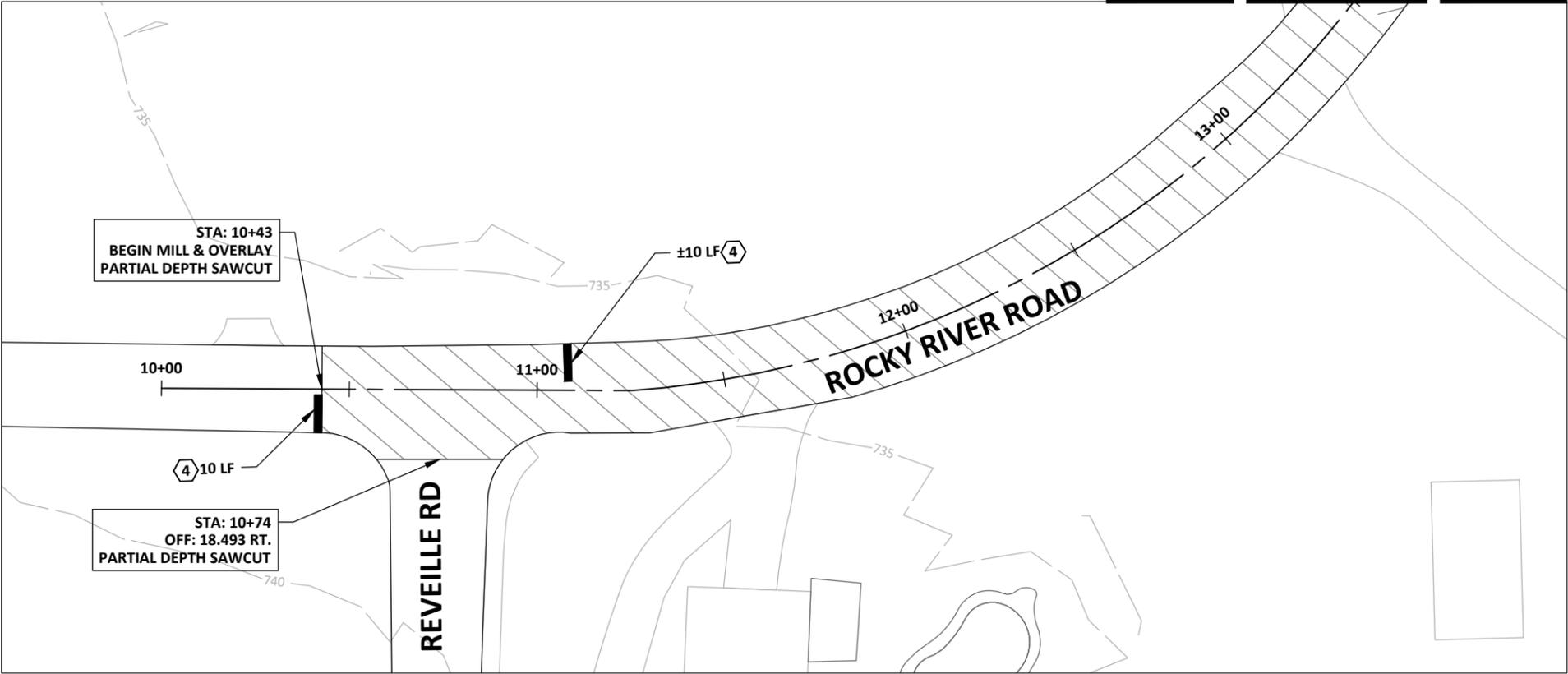
- NOTES:
- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
 - MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - CANYON VIEW
NTS

CANYON VIEW

C8.0

MATCHLINE: STA. 13+50



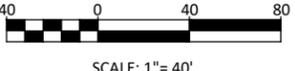
Jun 11, 2024 - 11:18am X:\02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\02-23011-00-PWMT - ROCKY RIVER ROAD.dwg

MATCHLINE: STA. 13+50

MATCHLINE: STA. 17+50; SEE SHEET C9.1



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Austin, Texas 78704
512.330.1270



LEGEND

---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND

[Diagonal Hatching]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Cross-hatching]	2" MILL AND OVERLAY
[Grid Hatching]	CRACK SEAL
[Dotted Hatching]	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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STRIPING KEY NOTES

- 4" SOLID DOUBLE YELLOW LINE
- 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
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- 24" SOLID WHITE STOP LINE

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE		DATE 06-10-2024	

ROCKY RIVER ROAD

C9.0



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Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

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**CITY OF WEST LAKE
HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



NO.	DATE	REVISION

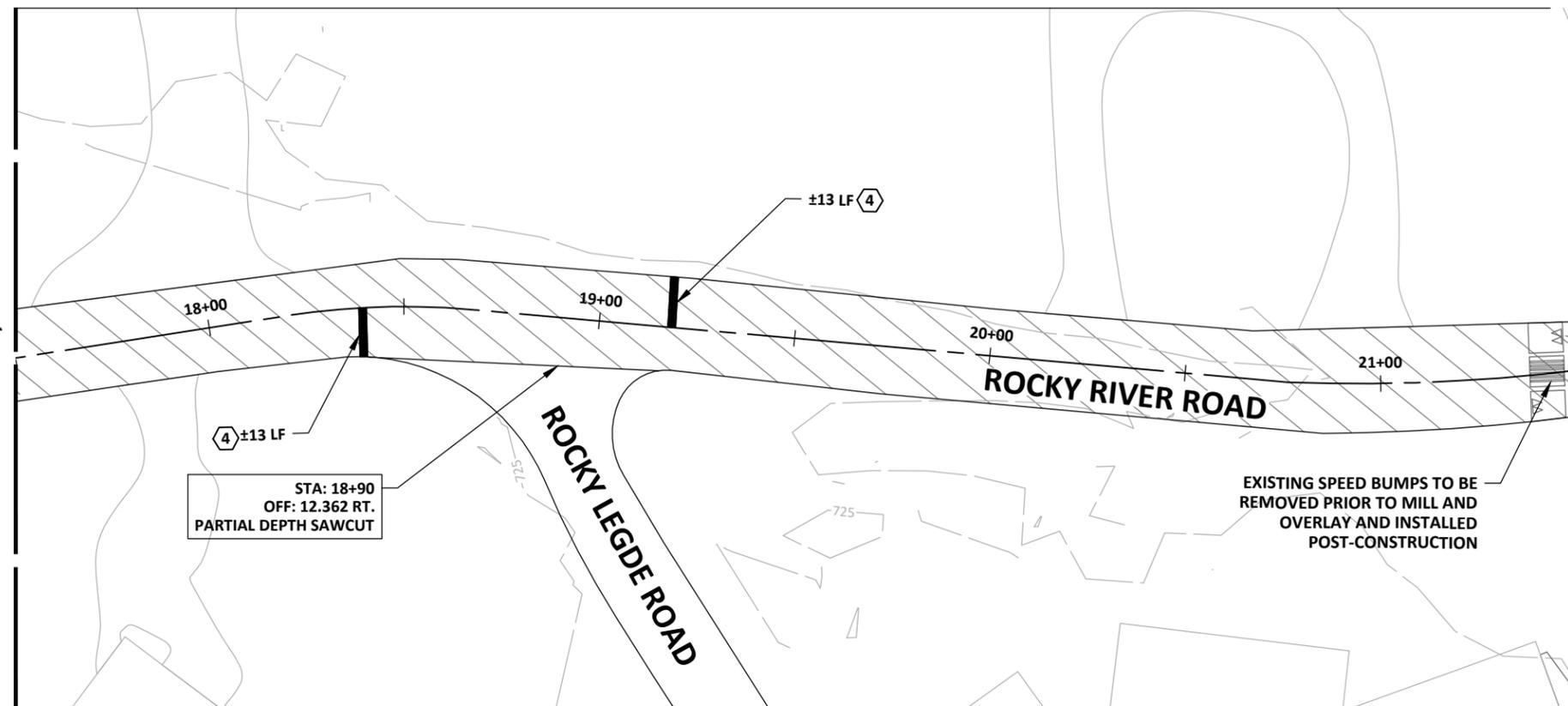
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	ORIGINAL ISSUE	DATE 06-10-2024	

ROCKY RIVER ROAD

C9.1

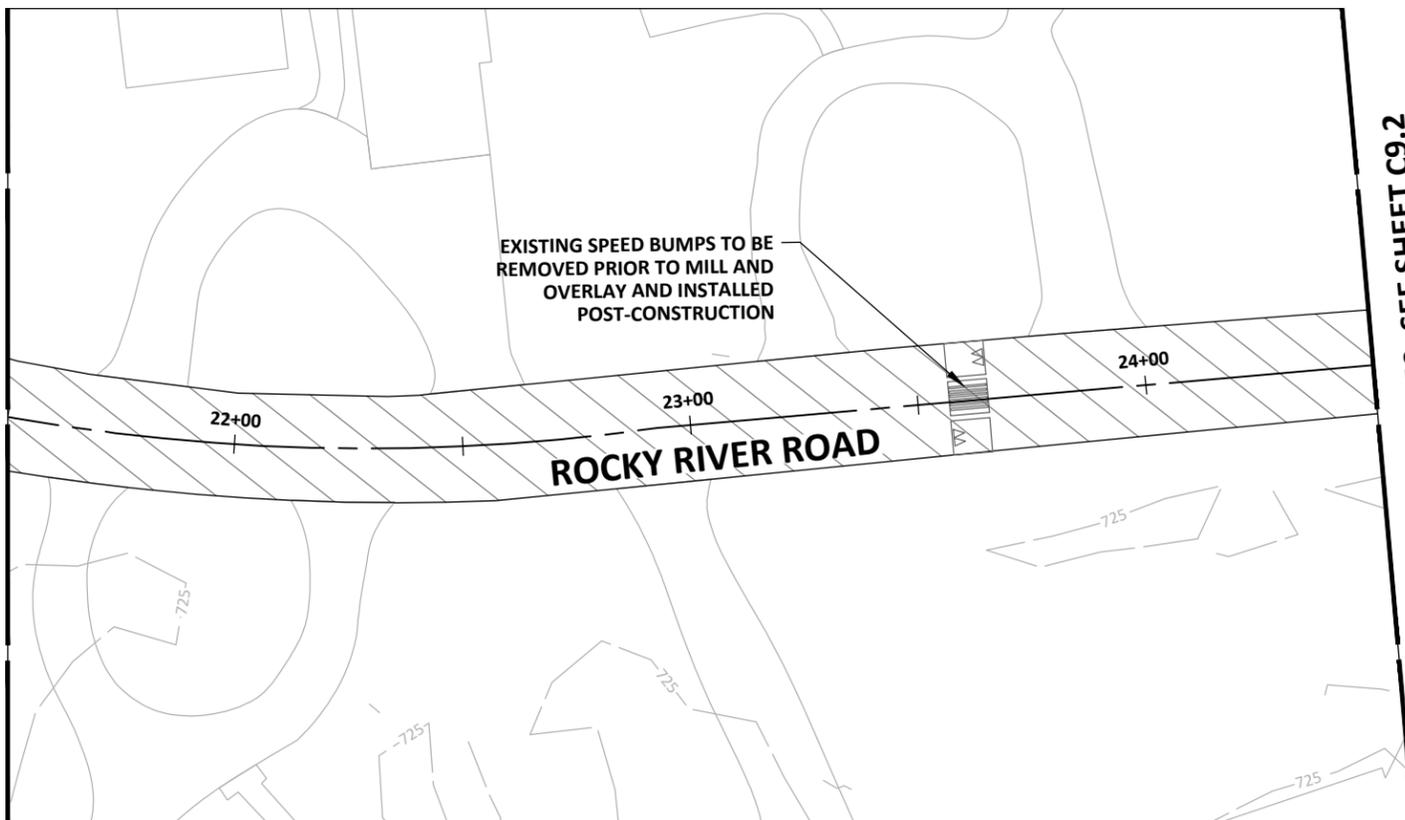
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MATCHLINE: STA. 17+50; SEE SHEET C9.0



MATCHLINE: STA. 21+50

MATCHLINE: STA. 21+50



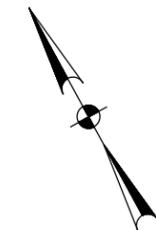
MATCHLINE: STA. 24+50; SEE SHEET C9.2

Jun 11, 2024 - 11:18am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - ROCKY RIVER ROAD.dwg



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Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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STRIPING KEY NOTES

- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- ③ 4" SOLID WHITE EDGE LINE
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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

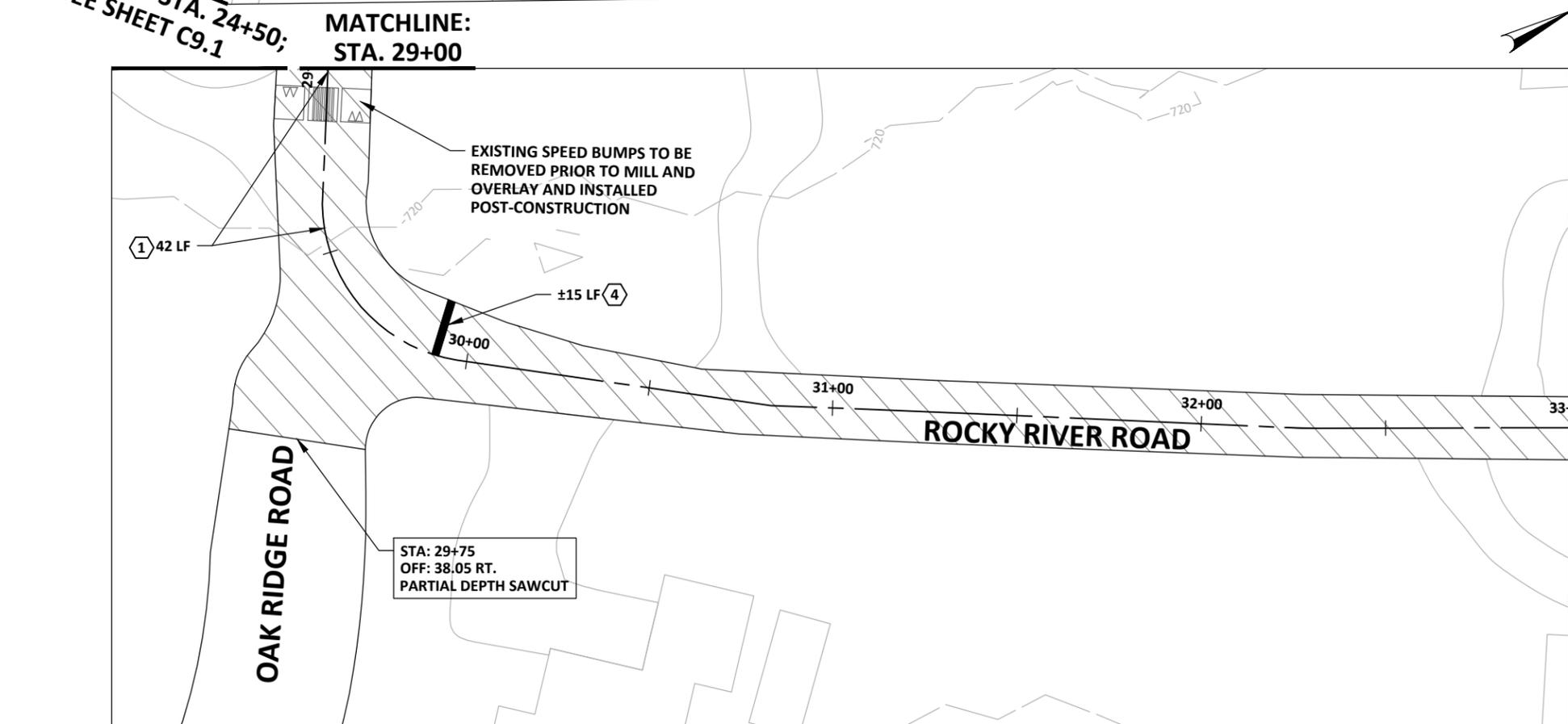
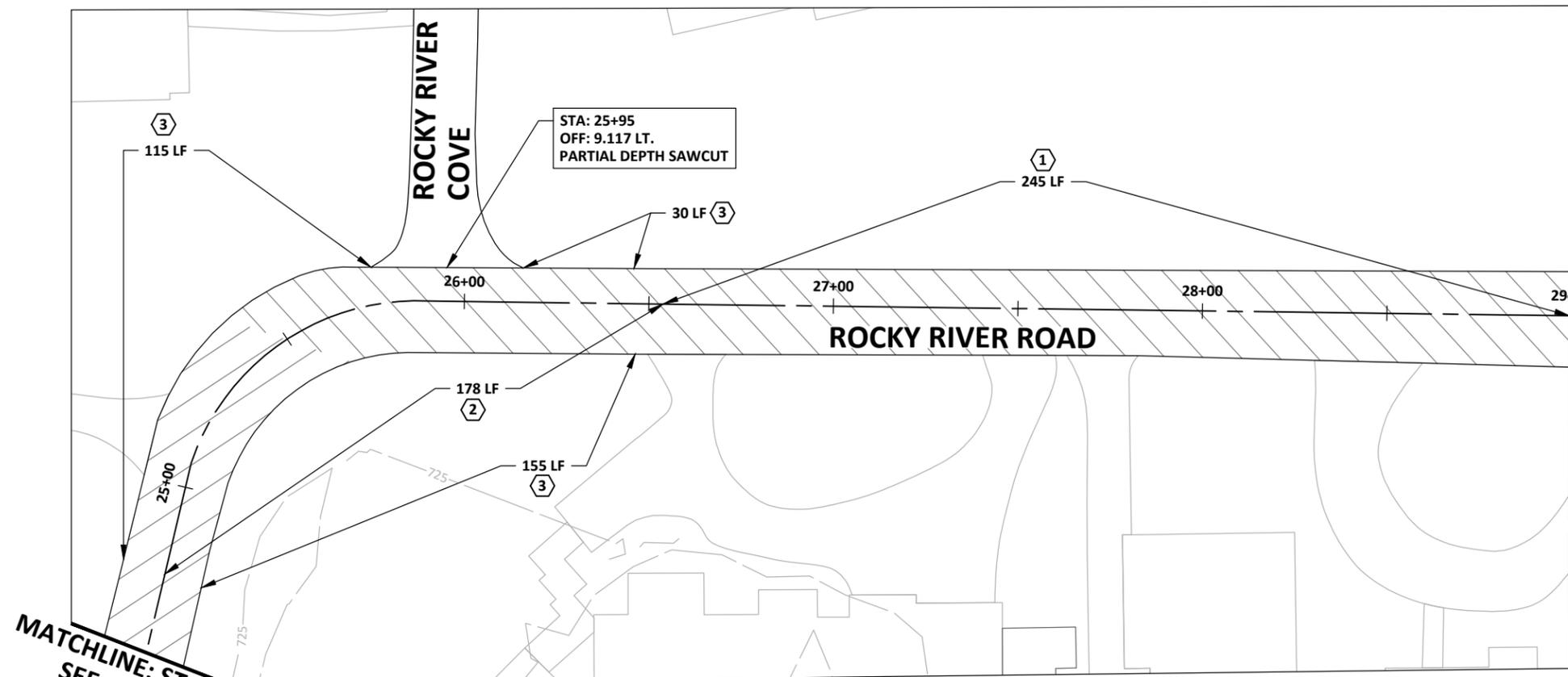
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ROCKY RIVER ROAD

C9.2

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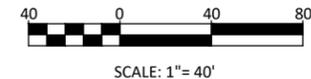


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Austin, Texas 78704

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LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
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	CRACK SEAL AND SURFACE PRESERVATION

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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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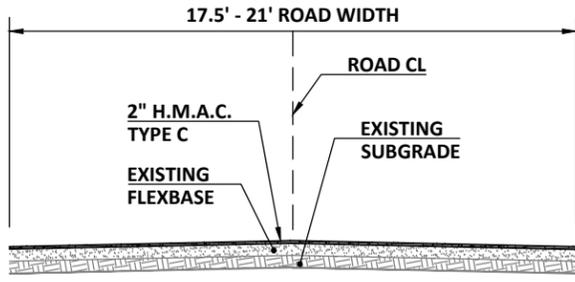
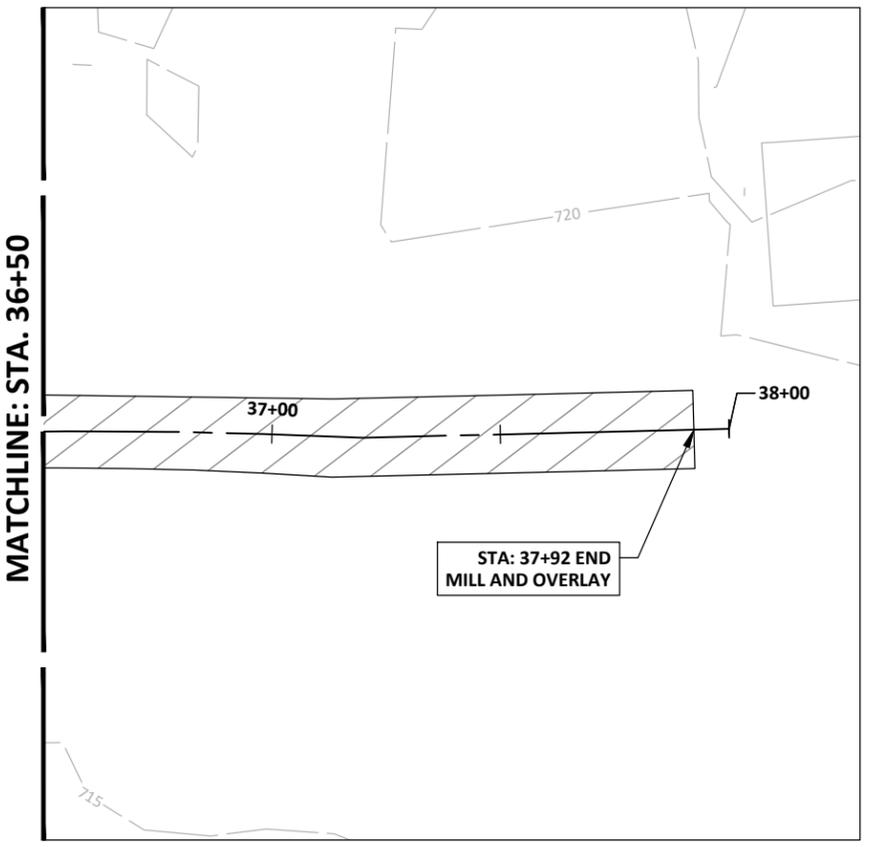
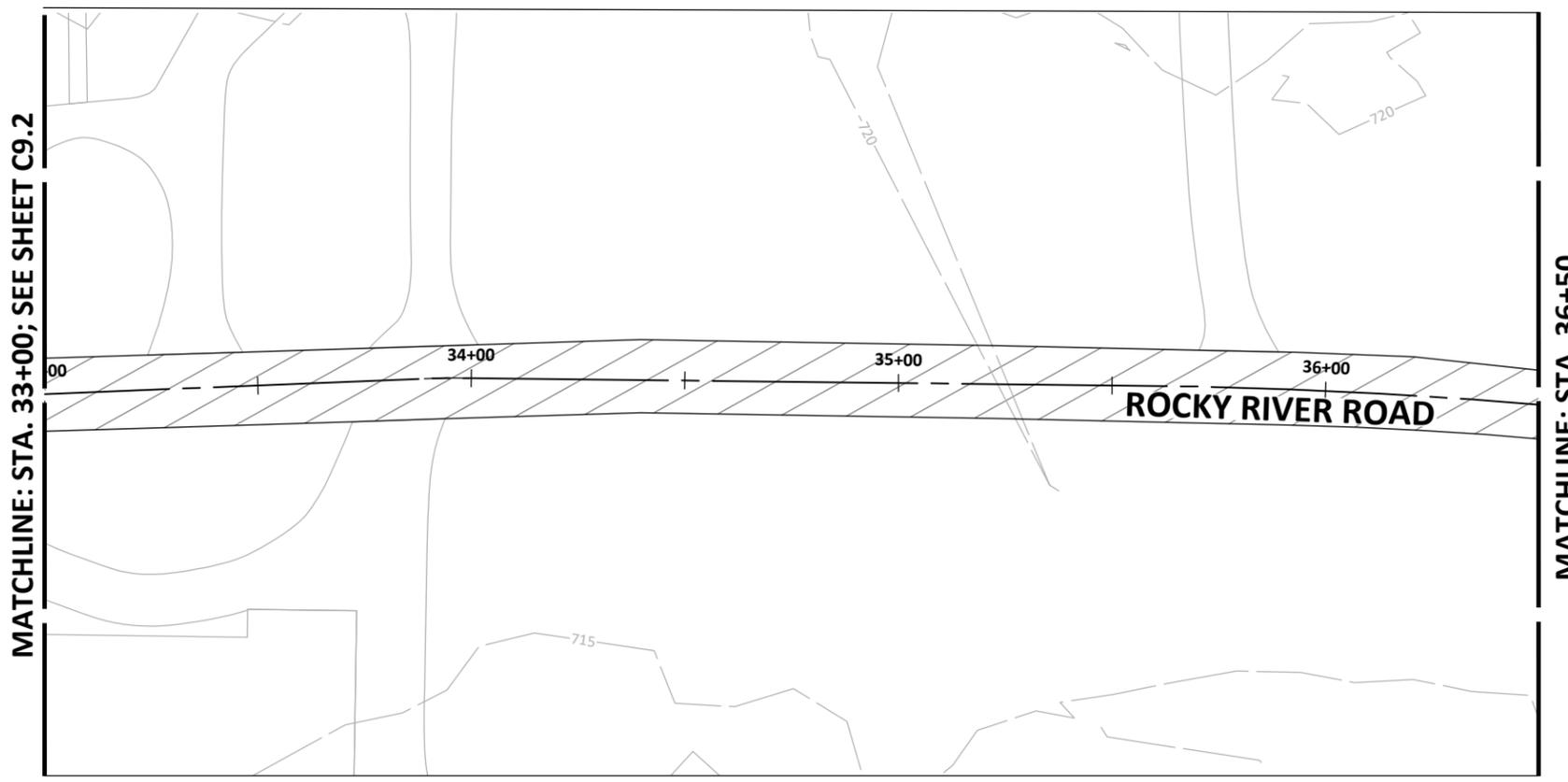


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ROCKY RIVER ROAD

C9.3



- NOTES:**
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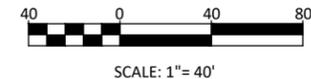
TYPICAL SECTION - ROCKY RIVER ROAD
NTS

Jun 11, 2024 - 11:19am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - ROCKY RIVER ROAD.dwg



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Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

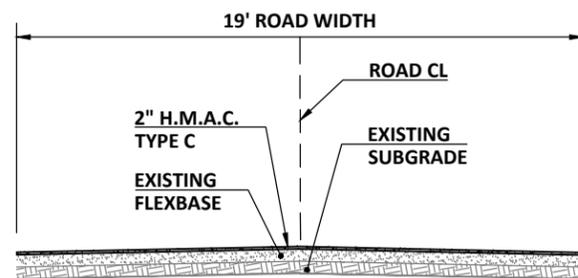
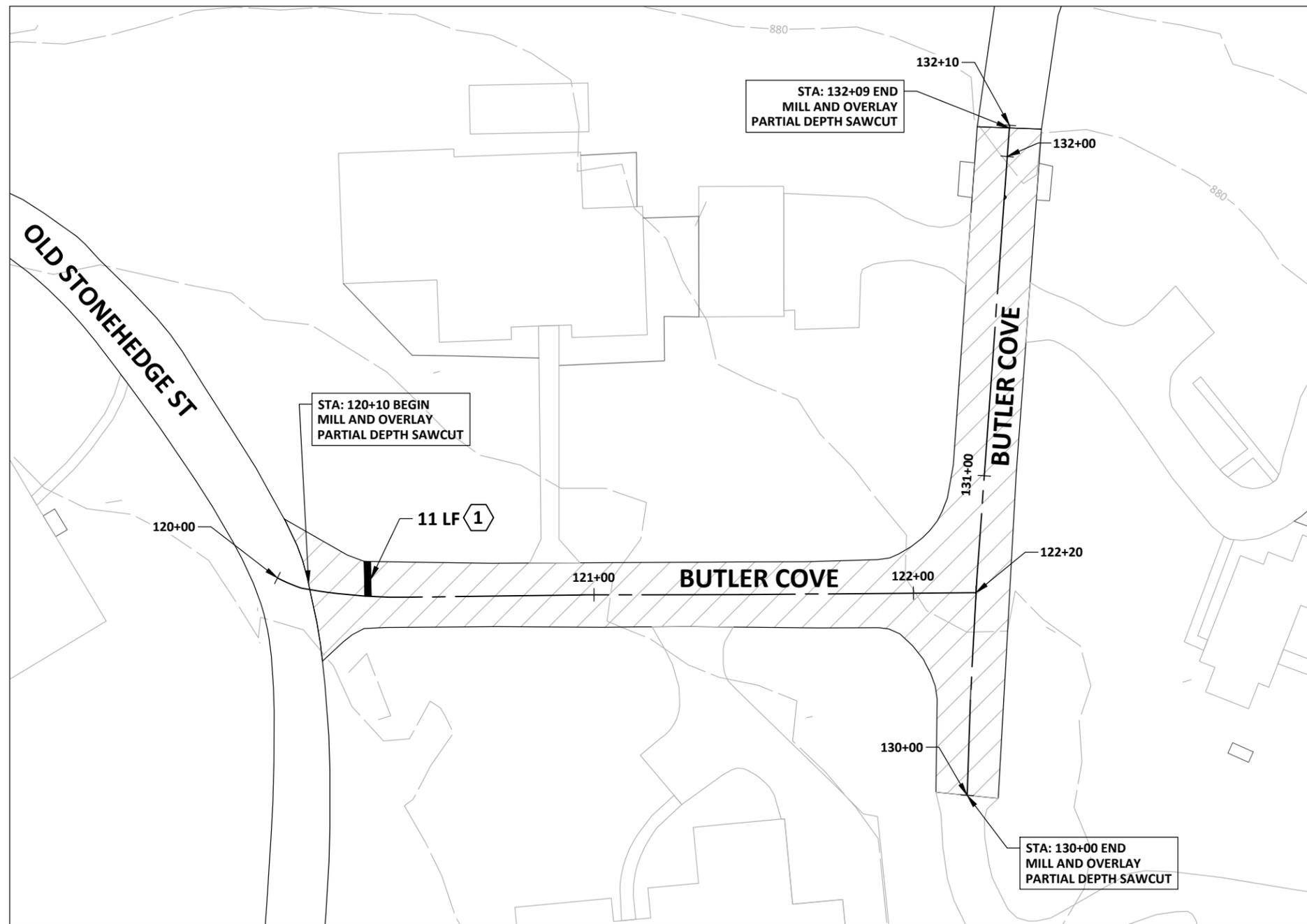
HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
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STRIPING KEY NOTES

- ① 24" SOLID WHITE STOP LINE



TYPICAL SECTION - CANYON VIEW
NTS

NOTES:

- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
- MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

**CITY OF WEST LAKE
HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024	

BUTLER COVE

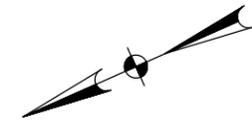
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Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



SCALE: 1" = 40'

LEGEND

---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND

[Stippled Hatch]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal Hatch]	2" MILL AND OVERLAY
[Cross-hatch]	CRACK SEAL
[Dotted Hatch]	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

- PAVEMENT SHAPES AND RIGHT-OF-WAY ARE ESTIMATED BASED ON SURVEY DATA SUPPLEMENTED WITH CITY OF AUSTIN GIS DATA. ACTUAL WIDTHS MAY VARY FROM DIMENSIONS SHOWN ON PLANS.
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- SURFACE PRESERVATION TO BE PERFORMED USING SEALMASTER LIQUID ROAD ULTRA & SPECIFICATIONS OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS.

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

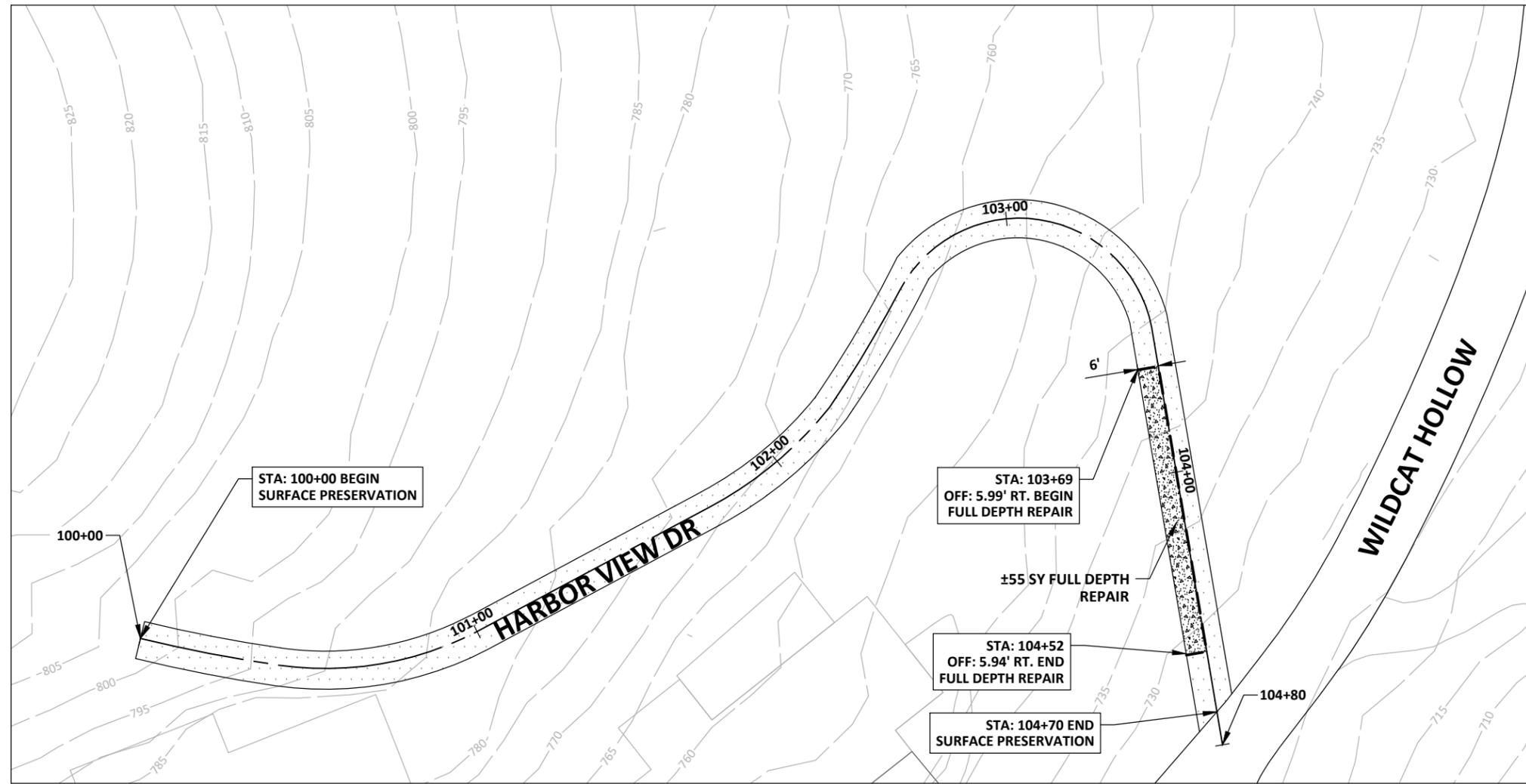
NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE	06-10-2024

HARBOR VIEW DR

C11.0

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Jun 11, 2024 - 11:19am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - HARBOR VIEW DR.dwg



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



SCALE: 1" = 40'

LEGEND

- SAWCUT
- MS --- MULCH SOCK
- TFD --- TRIANGULAR FILTER DIKE
- SF --- SILT FENCE

HATCH LEGEND

- FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
- 2" MILL AND OVERLAY
- CRACK SEAL
- CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

1. PAVEMENT SHAPES AND RIGHT-OF-WAY ARE ESTIMATED BASED ON SURVEY DATA SUPPLEMENTED WITH CITY OF AUSTIN GIS DATA. ACTUAL WIDTHS MAY VARY FROM DIMENSIONS SHOWN ON PLANS.
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4. STRIPING TO MATCH EXISTING STRIPING.
5. SURFACE PRESERVATION TO BE PERFORMED USING SEALMASTER LIQUID ROAD ULTRA & SPECIFICATIONS OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS.

STRIPING KEY NOTES

- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10' C-C
- ③ 4" SOLID WHITE EDGE LINE
- ④ 24" SOLID WHITE STOP LINE

**CITY OF WEST LAKE
HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

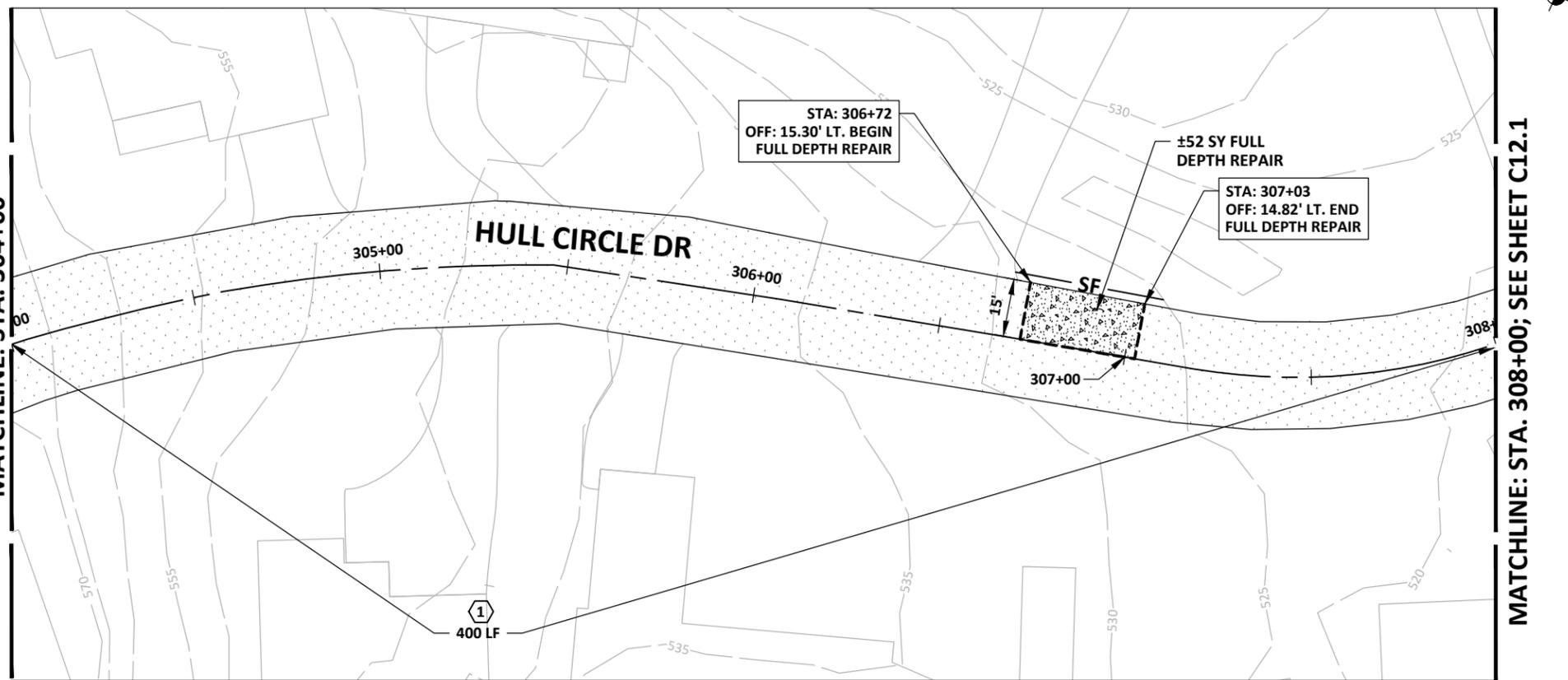
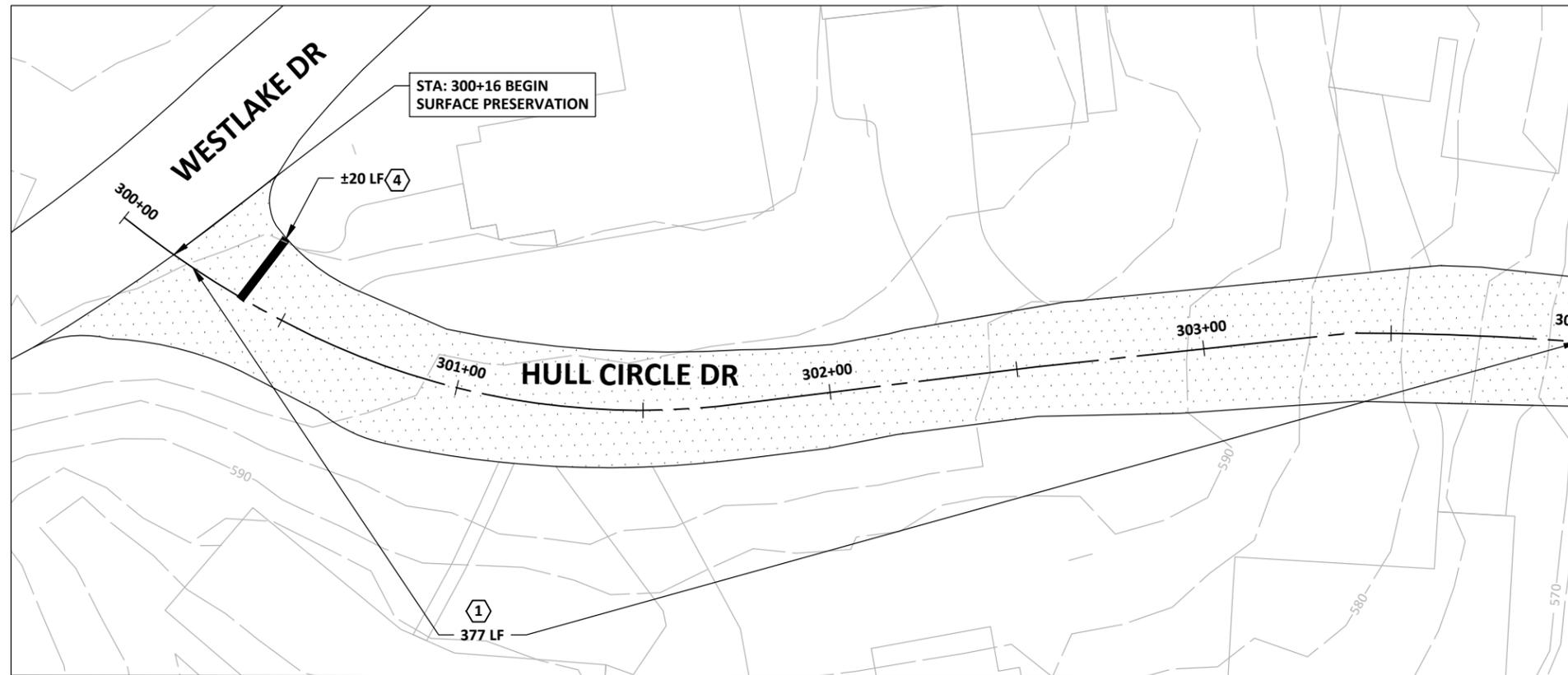
Susan Smith-Turrieta

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PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE 06-10-2024	

HULL CIRCLE DR

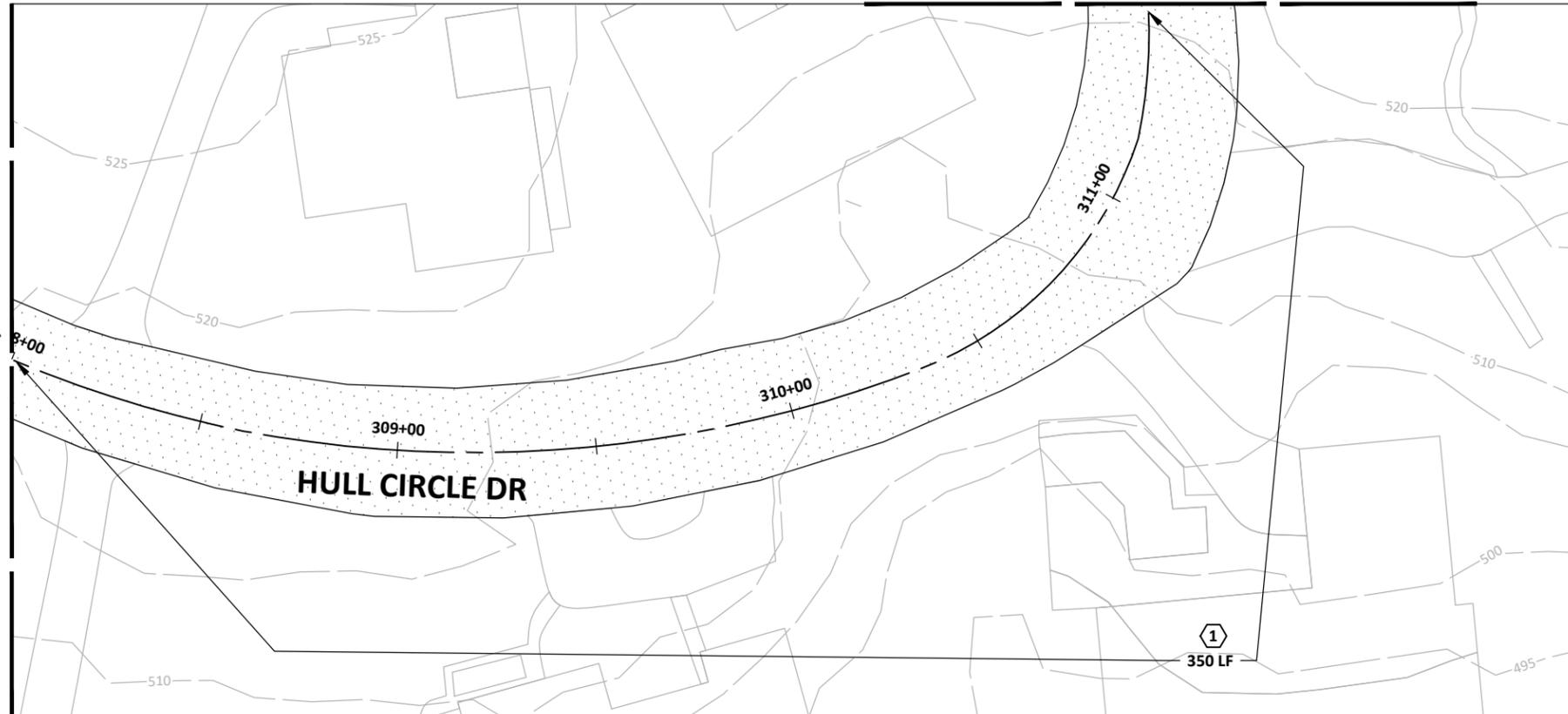
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Jun 11, 2024 - 11:20am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - HULL CIR.dwg

MATCHLINE: STA. 321+50

MATCHLINE: STA. 308+00; SEE SHEET C12.0



LEGEND	
---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND	
[Hatched pattern]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal lines]	2" MILL AND OVERLAY
[Brick pattern]	CRACK SEAL
[Dotted pattern]	CRACK SEAL AND SURFACE PRESERVATION



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401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

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PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

STRIPING KEY NOTES

- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10' C-C
- ③ 4" SOLID WHITE EDGE LINE
- ④ 24" SOLID WHITE STOP LINE

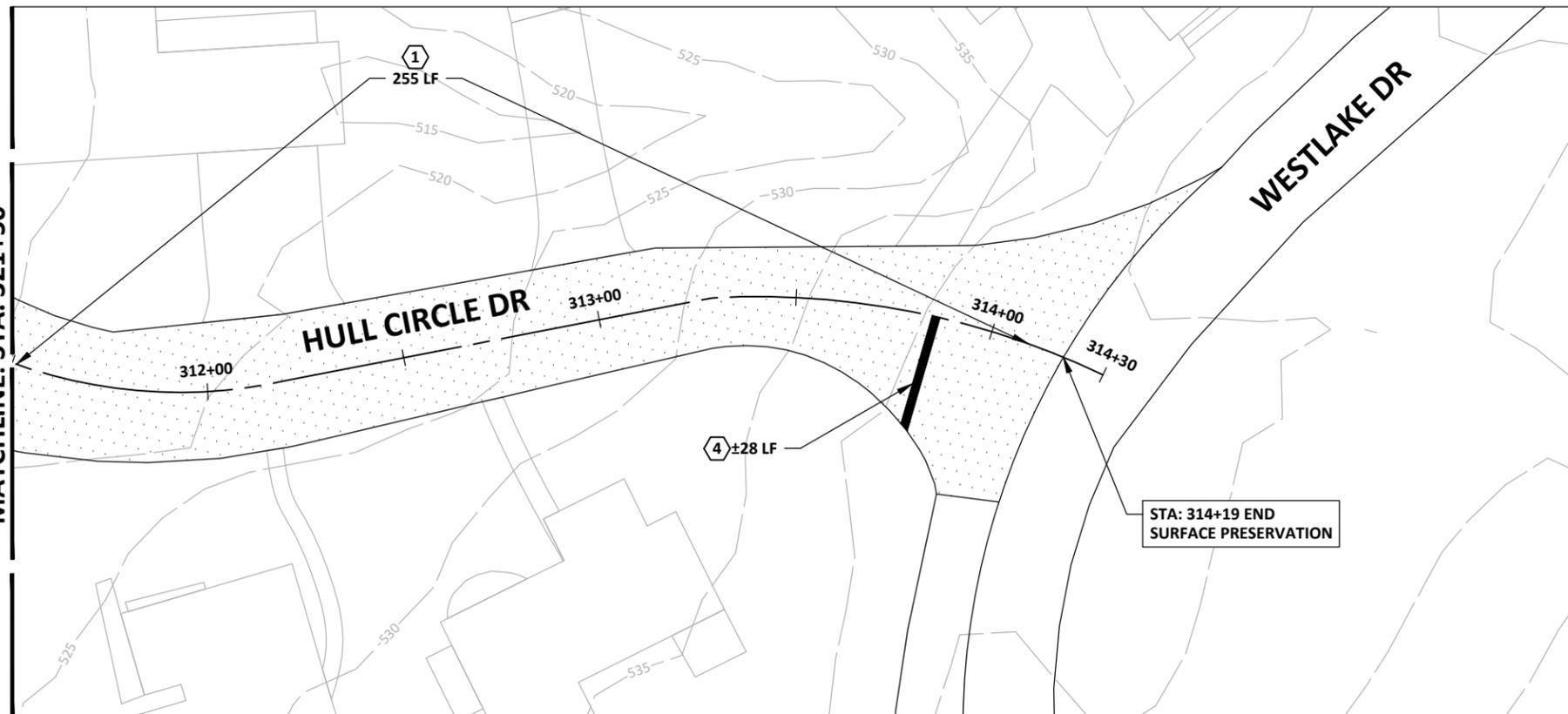
HULL CIRCLE DR

C12.1

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MATCHLINE: STA. 321+50



STA: 314+19 END
SURFACE PRESERVATION



Walter P. Moore and Associates,
Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



SCALE: 1" = 40'

LEGEND

---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND

[Stippled Hatch]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal Hatch]	2" MILL AND OVERLAY
[Brick Hatch]	CRACK SEAL
[Dotted Hatch]	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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STRIPING KEY NOTES

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- ④ 24" SOLID WHITE STOP LINE

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

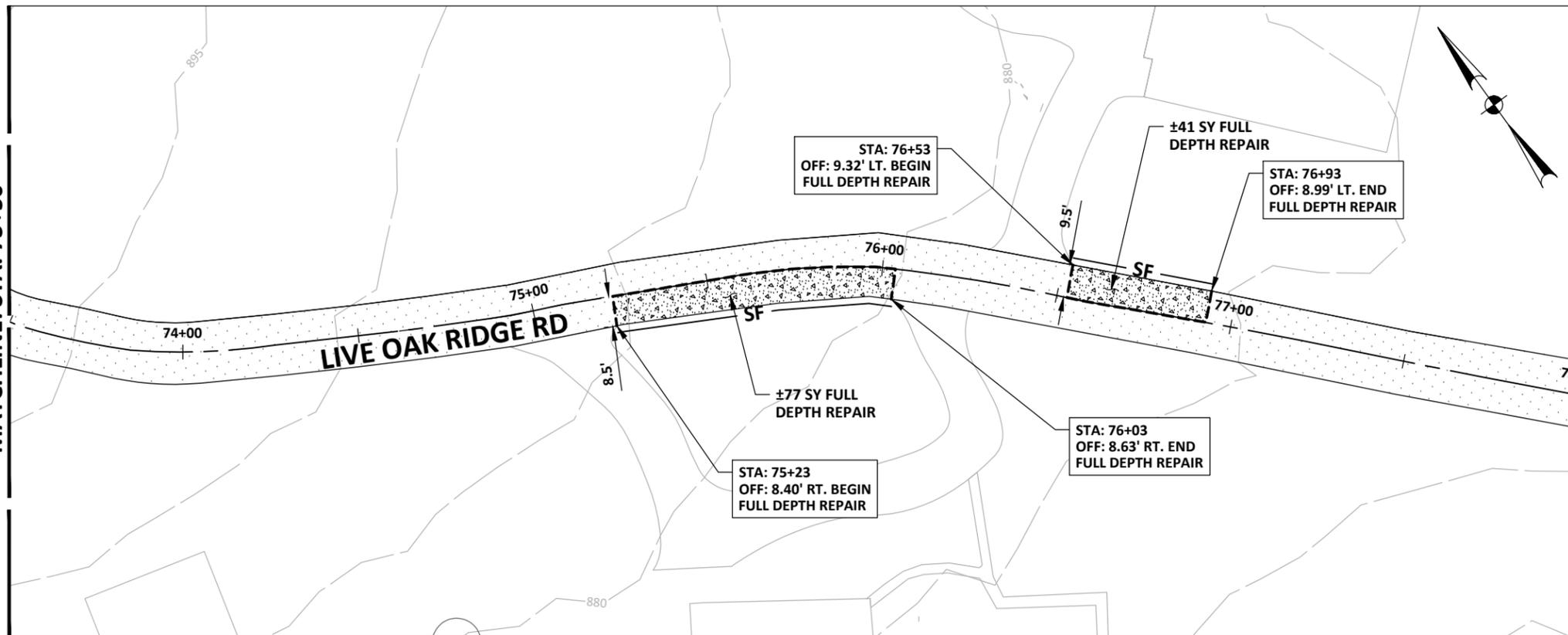
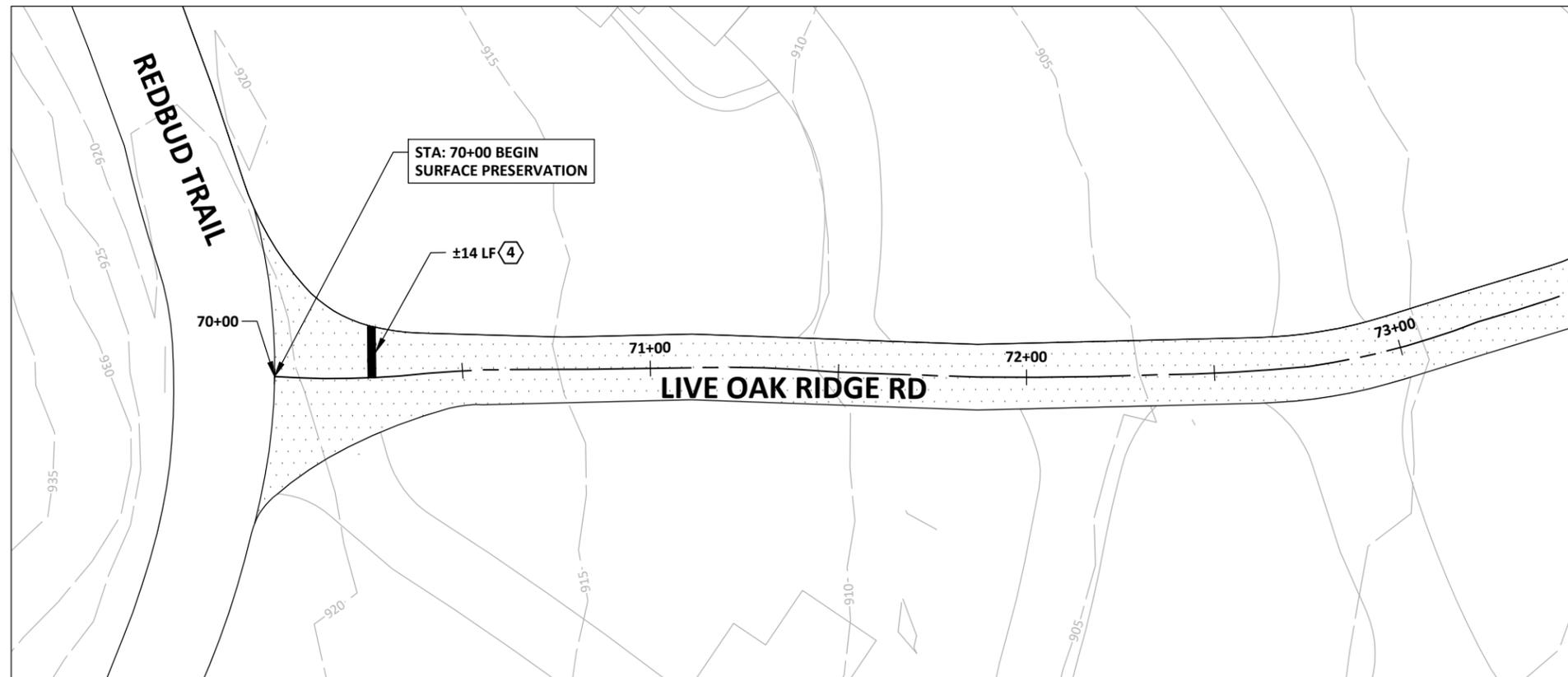
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PROJECT NO.	C02-23011-00	
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ORIGINAL ISSUE	DATE	DATE
		06-10-2024

LIVE OAK RIDGE ROAD

C13.0

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Jun 11, 2024 - 11:20am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - LIVE OAK RIDGE ROAD.dwg
 MATCHLINE: STA. 73+50

MATCHLINE: STA. 78+00; SEE SHEET C13.1



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401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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- ④ 24" SOLID WHITE STOP LINE

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

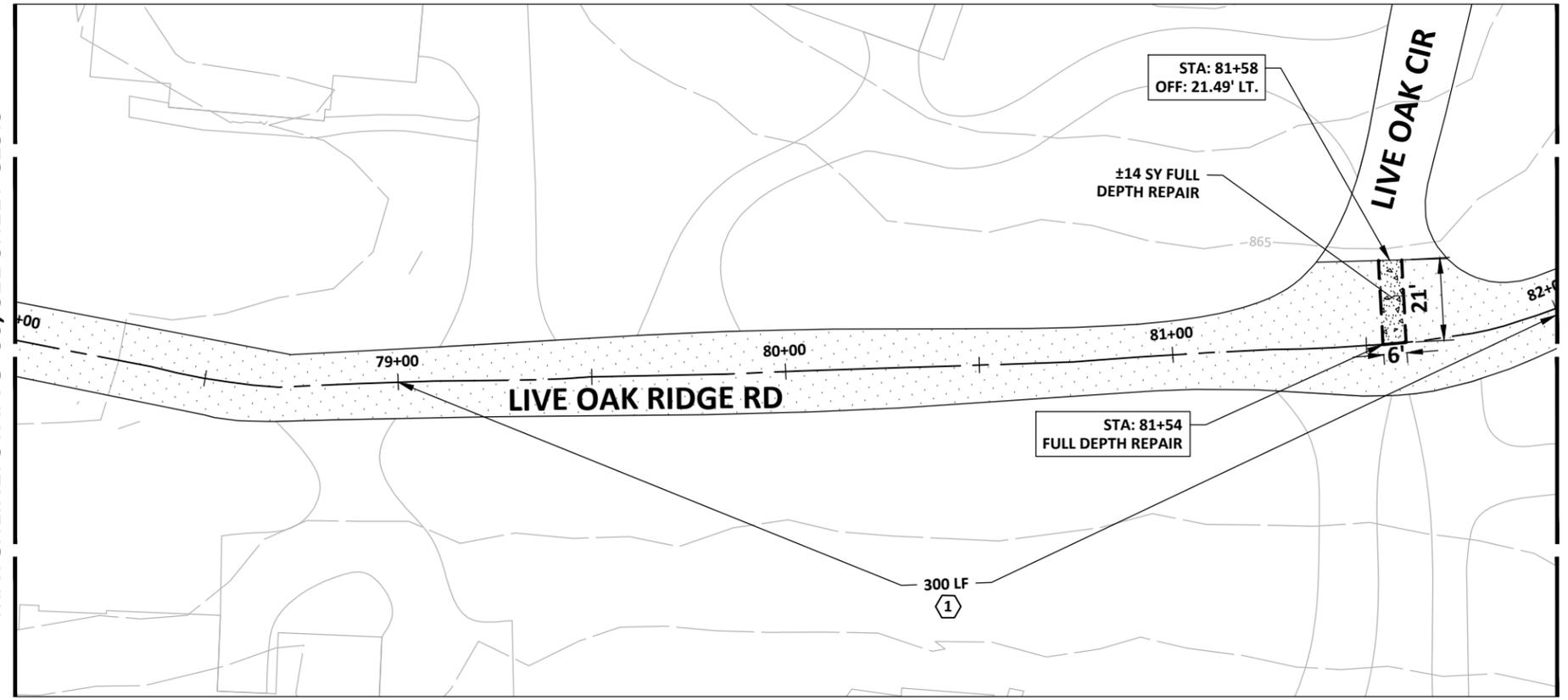
PROJECT NO.	C02-23011-00	
DESIGNED BY	REVIEWED BY	DRAWN BY
ZS/ESM	SST	AC
ORIGINAL ISSUE	DATE	DATE
		06-10-2024

LIVE OAK RIDGE ROAD

C13.1

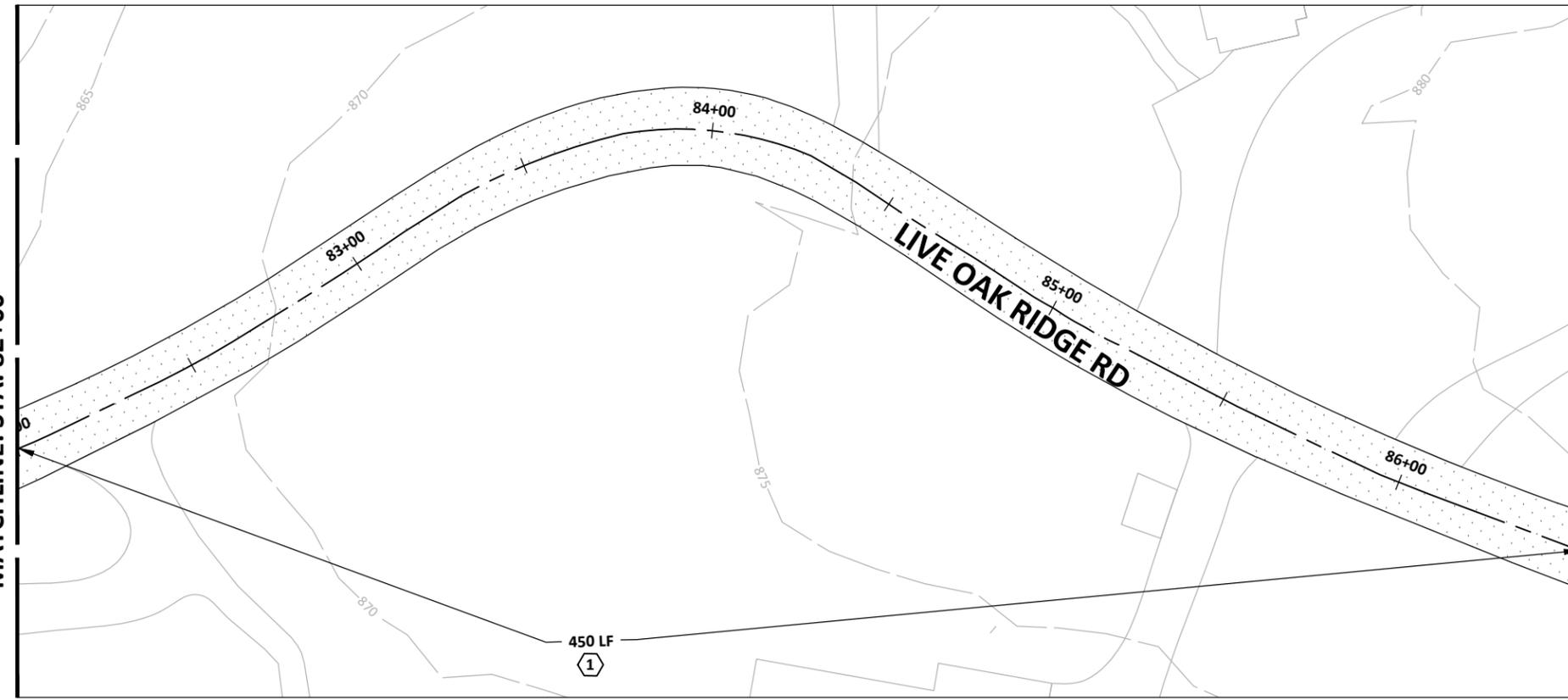
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MATCHLINE: STA. 78+00; SEE SHEET C13.0



MATCHLINE: STA. 82+00

MATCHLINE: STA. 82+00



MATCHLINE: STA 86+50; SEE SHEET C13.2

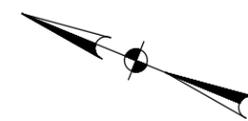
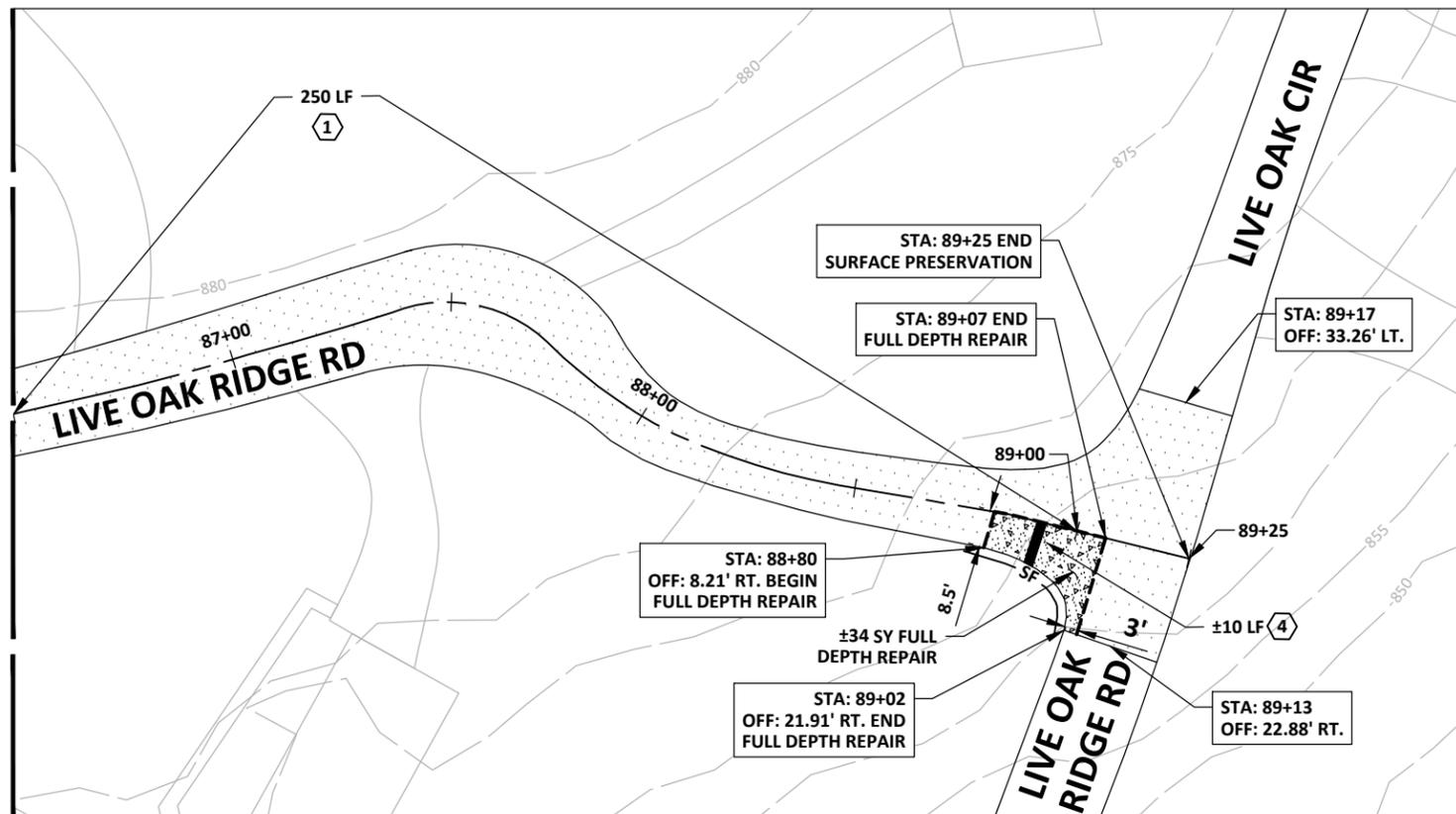
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Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270

MATCHLINE: STA. 86+50; SEE SHEET C13.1



LEGEND	
---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND	
[Stippled pattern]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal lines]	2" MILL AND OVERLAY
[Horizontal lines]	CRACK SEAL
[Dotted pattern]	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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STRIPING KEY NOTES

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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

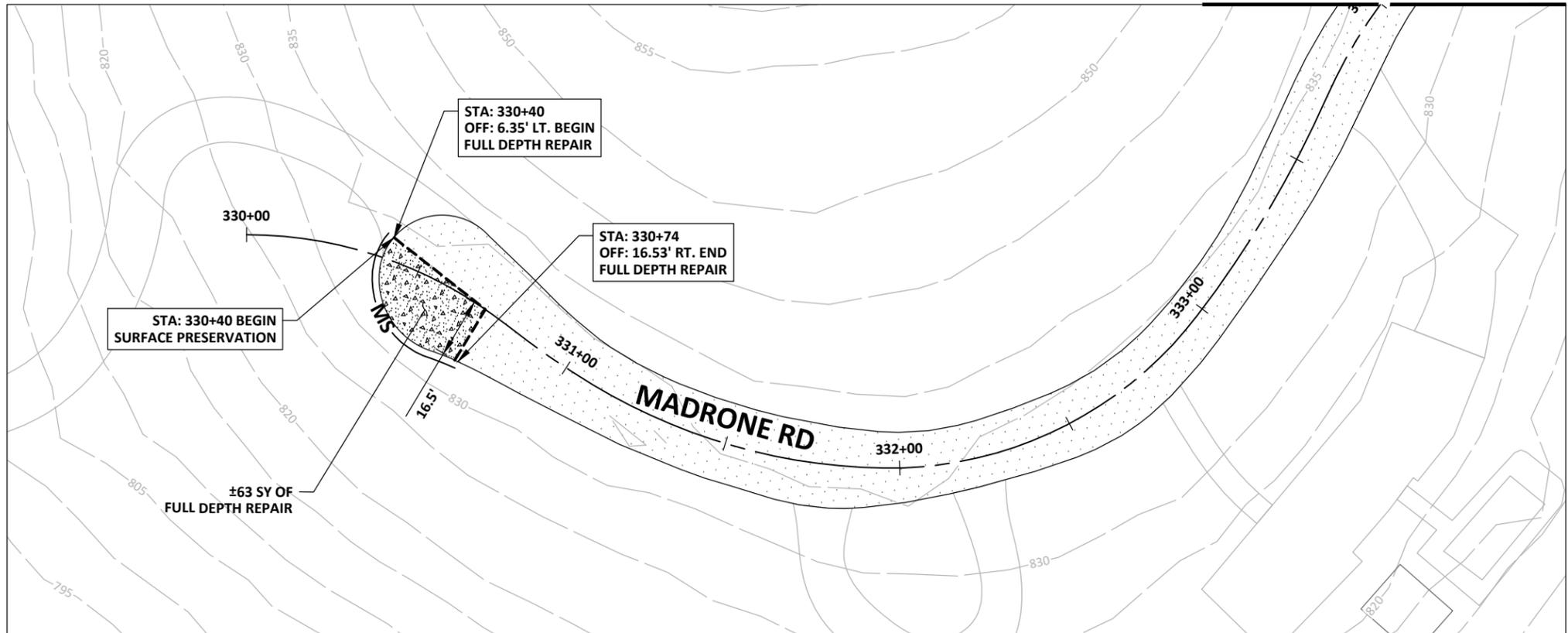
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ZS/ESM	SST	AC
ORIGINAL ISSUE	DATE	
	06-10-2024	

LIVE OAK RIDGE ROAD

C13.2

MATCHLINE: STA. 334+00



LEGEND

---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND

[Stippled pattern]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal lines]	2" MILL AND OVERLAY
[Brick pattern]	CRACK SEAL
[Dotted pattern]	CRACK SEAL AND SURFACE PRESERVATION



walter p moore
 Walter P. Moore and Associates, Inc.
 401 S 1st St., Suite 600
 Austin, Texas 78704
 512.330.1270

**CITY OF WEST LAKE
 HILLS STREET REHAB
 & DRAINAGE
 IMPROVEMENTS**

MATCHLINE: STA. 338+50; SEE SHEET C14.1



SHEET NOTES

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MADRONE RD

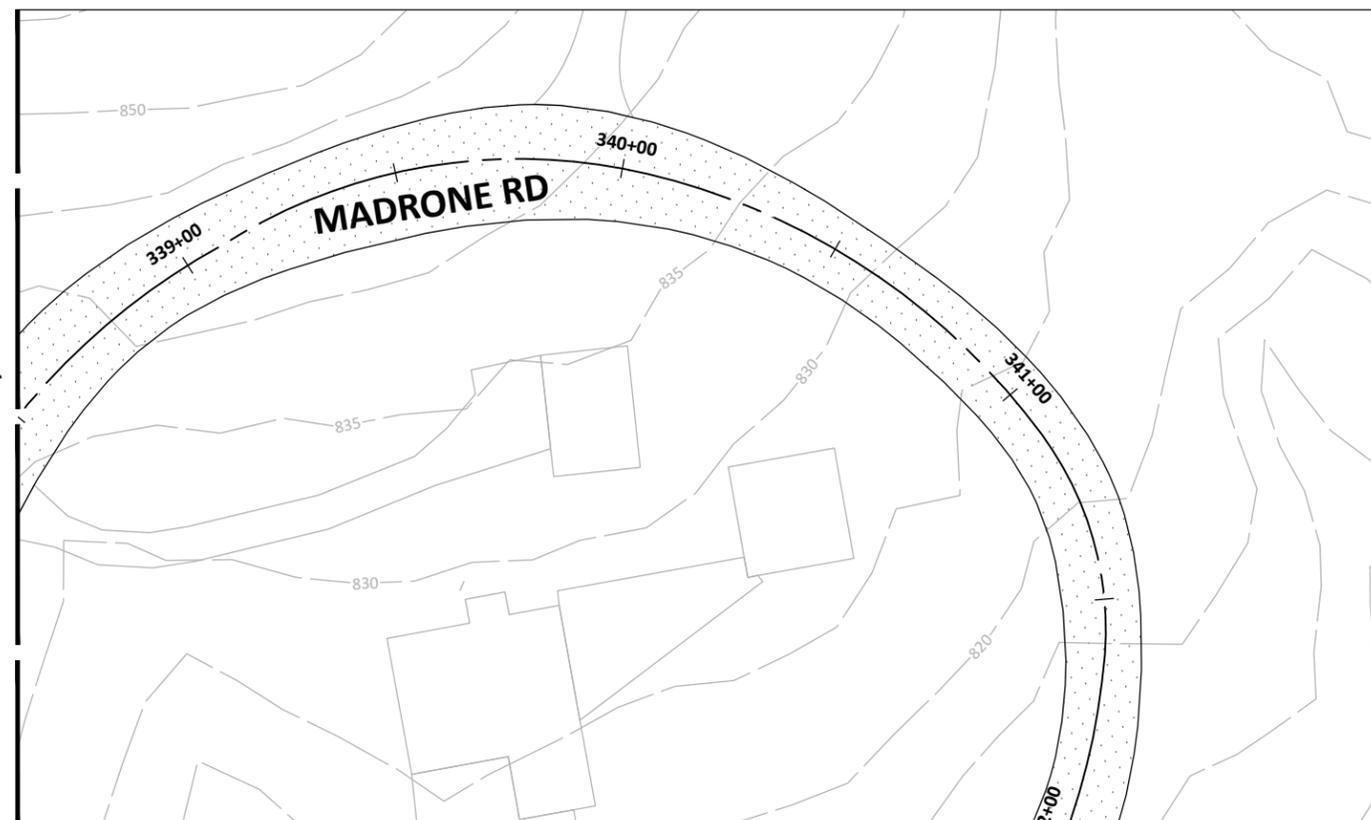
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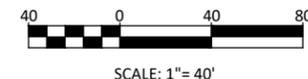
Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270

MATCHLINE: STA. 338+50; SEE SHEET C14.0



MATCHLINE: STA. 342+00



SCALE: 1" = 40'

LEGEND

[Symbol: Sawcut]	SAWCUT
[Symbol: Mulch Sock]	MULCH SOCK
[Symbol: Triangular Filter Dike]	TRIANGULAR FILTER DIKE
[Symbol: Silt Fence]	SILT FENCE

HATCH LEGEND

[Symbol: Full Depth Repair]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Symbol: 2" Mill and Overlay]	2" MILL AND OVERLAY
[Symbol: Crack Seal]	CRACK SEAL
[Symbol: Crack Seal and Surface Preservation]	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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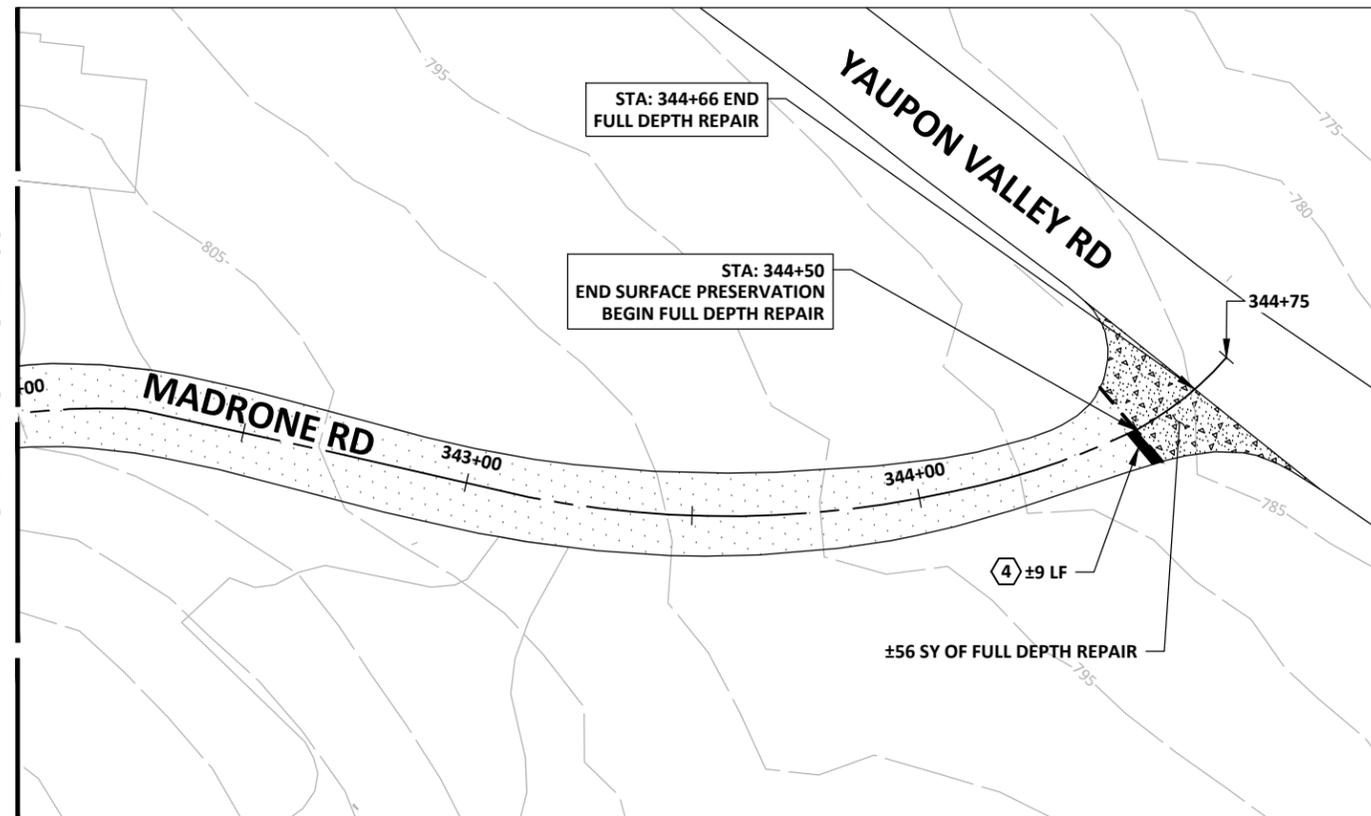
MADRONE RD

C14.1

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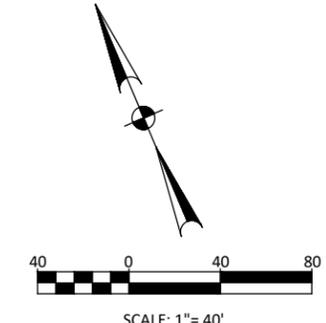
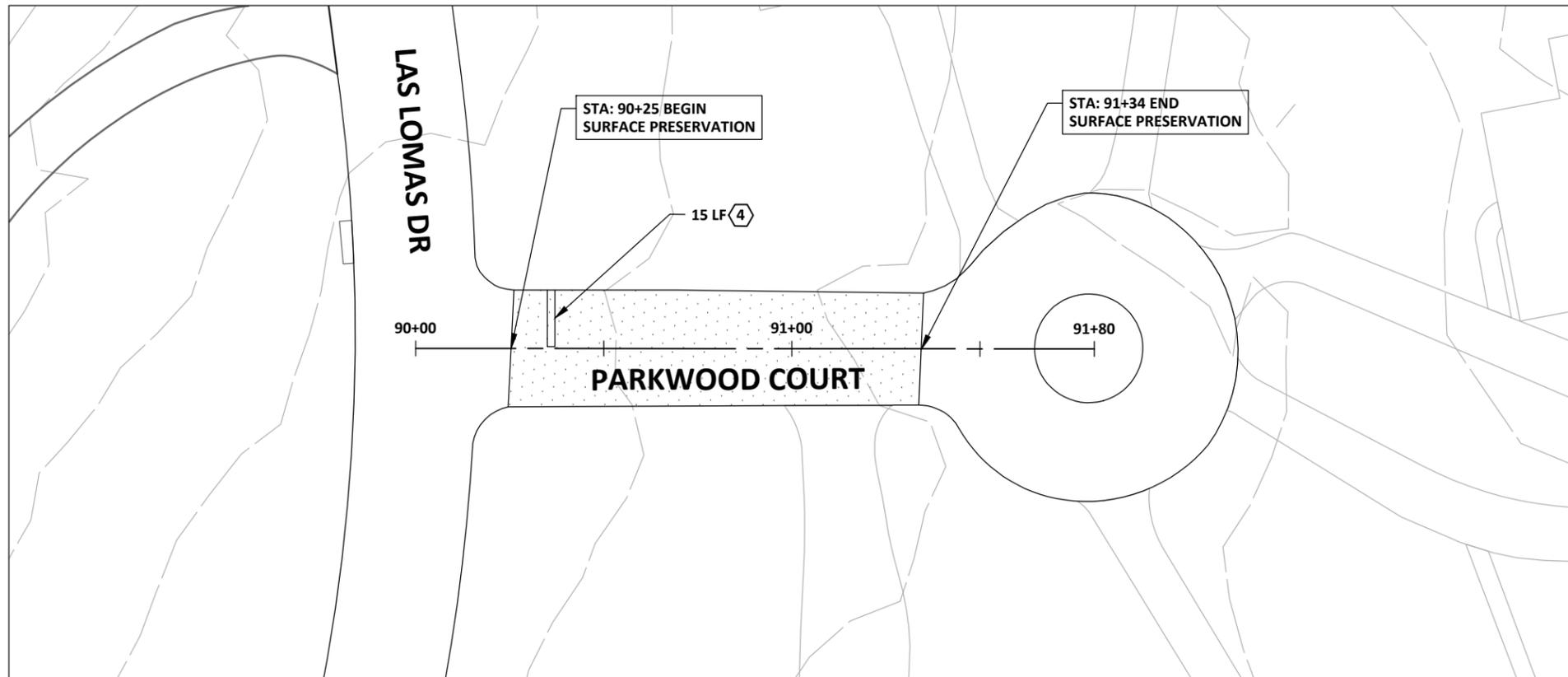
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MATCHLINE: STA. 342+00



±56 SY OF FULL DEPTH REPAIR

Jun 11, 2024 - 11:22am X:\02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\02-23011-00-PWMT - PARKWOOD CT.dwg



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704
512.330.1270

LEGEND	
---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND	
[Dotted Hatch]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal Hatch]	2" MILL AND OVERLAY
[Horizontal Hatch]	CRACK SEAL
[Vertical Hatch]	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
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06-11-2024

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NO.	DATE	REVISION

STRIPING KEY NOTES

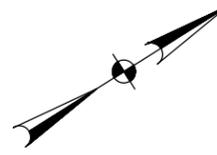
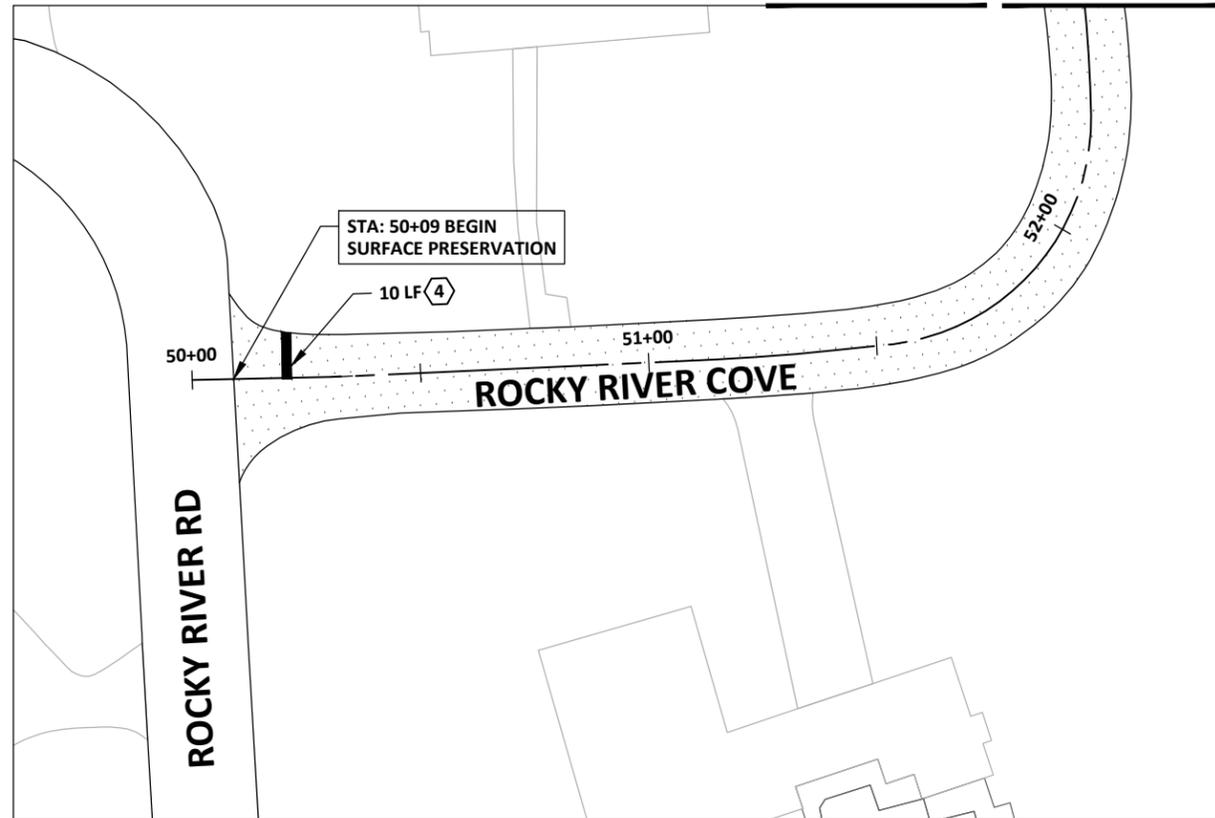
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- 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- 4" SOLID WHITE EDGE LINE
- 24" SOLID WHITE STOP LINE

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	ORIGINAL ISSUE	DATE 06-10-2024	

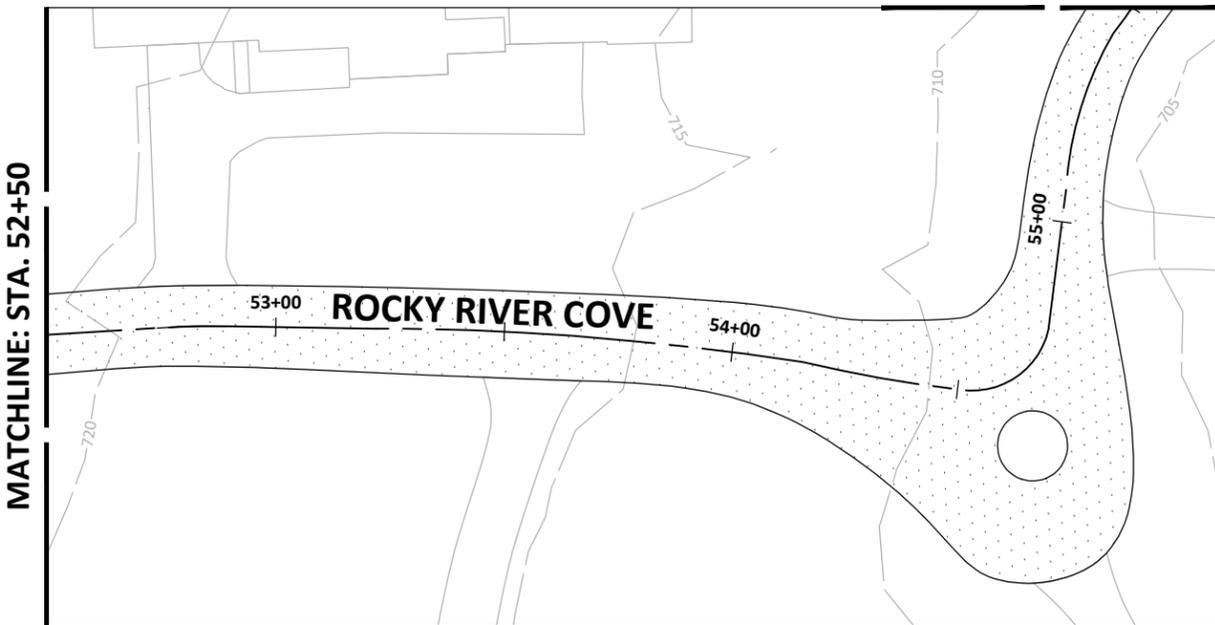
PARKWOOD COURT

C15.0

MATCHLINE: STA. 52+50



MATCHLINE: STA. 55+50; SEE SHEET C16.1



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



SCALE: 1" = 40'

LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

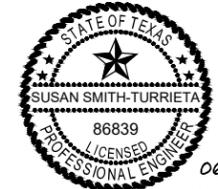
- PAVEMENT SHAPES AND RIGHT-OF-WAY ARE ESTIMATED BASED ON SURVEY DATA SUPPLEMENTED WITH CITY OF AUSTIN GIS DATA. ACTUAL WIDTHS MAY VARY FROM DIMENSIONS SHOWN ON PLANS.
- PAVEMENT RESURFACING QUANTITIES, PATCH REPAIR, AND CRACK SEALING LOCATIONS ARE APPROXIMATE. FINAL LIMITS WILL BE IDENTIFIED DURING THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.
- STRIPING TO MATCH EXISTING STRIPING.
- SURFACE PRESERVATION TO BE PERFORMED USING SEALMASTER LIQUID ROAD ULTRA & SPECIFICATION OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS.

STRIPING KEY NOTES

- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- ③ 4" SOLID WHITE EDGE LINE
- ④ 24" SOLID WHITE STOP LINE

**CITY OF WEST LAKE
HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

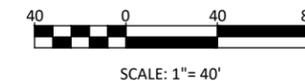
ROCKY RIVER COVE

C16.0



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



LEGEND	
---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND	
[Dotted Hatch]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal Hatch]	2" MILL AND OVERLAY
[Grid Hatch]	CRACK SEAL
[Stippled Hatch]	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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STRIPING KEY NOTES

- 4" SOLID DOUBLE YELLOW LINE
- 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- 4" SOLID WHITE EDGE LINE
- 24" SOLID WHITE STOP LINE

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

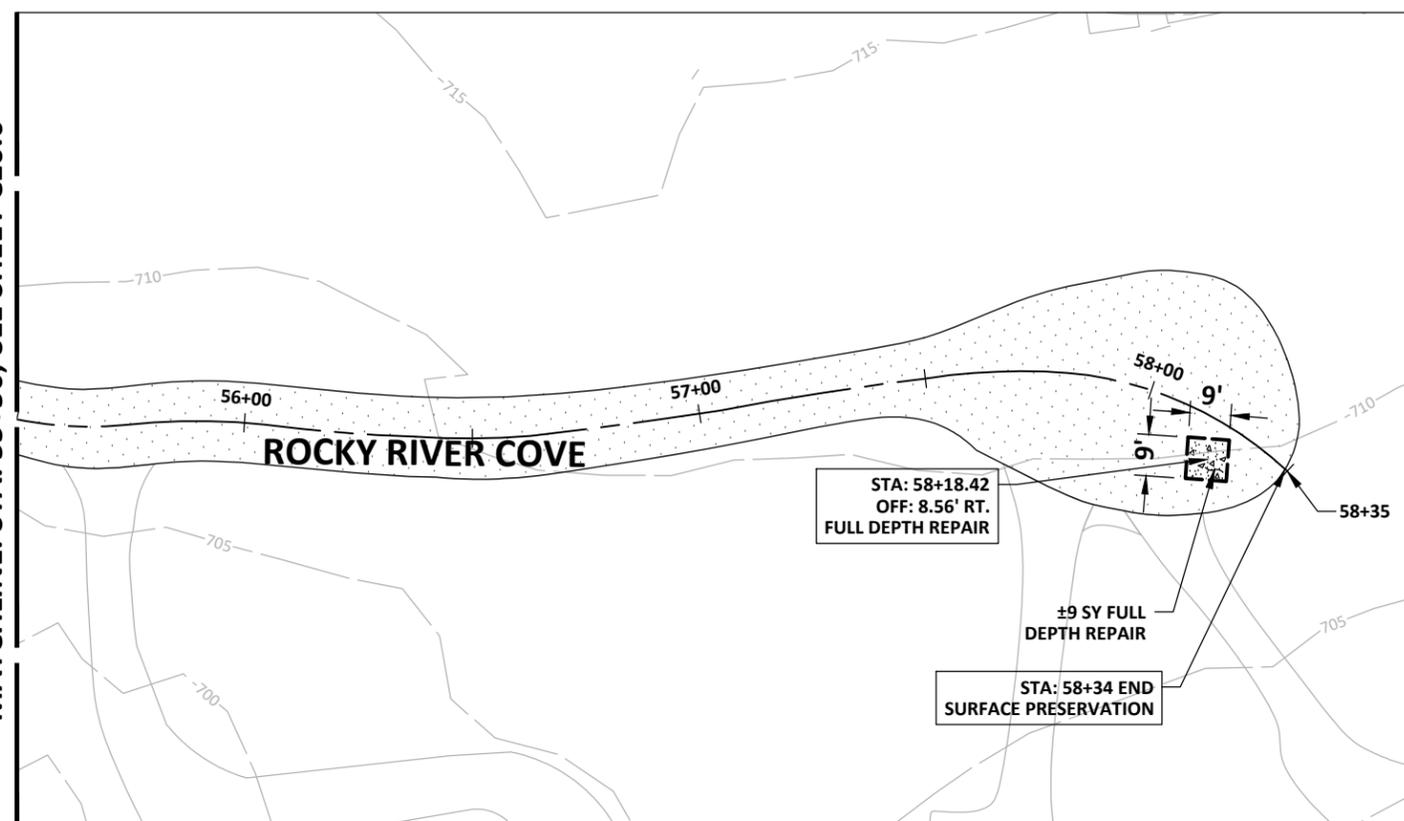
PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE	DATE
		06-10-2024

ROCKY RIVER COVE

C16.1

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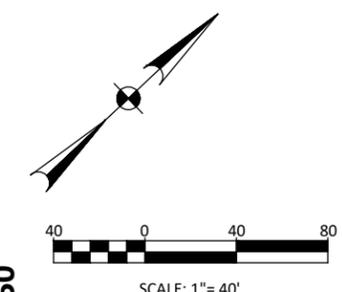
MATCHLINE: STA. 55+50; SEE SHEET C16.0





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401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



LEGEND

---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND

[Dotted Hatch]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal Hatch]	2" MILL AND OVERLAY
[Cross-hatch]	CRACK SEAL
[Stippled Hatch]	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
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Susan Smith-Turrieta

NO.	DATE	REVISION

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- SURFACE PRESERVATION TO FOLLOW CITY OF AUSTIN SPECIFICATION S312 - SEAL COAT FOR THE SURFACE PRESERVATION ON WESTLAKE DRIVE.

STRIPING KEY NOTES:

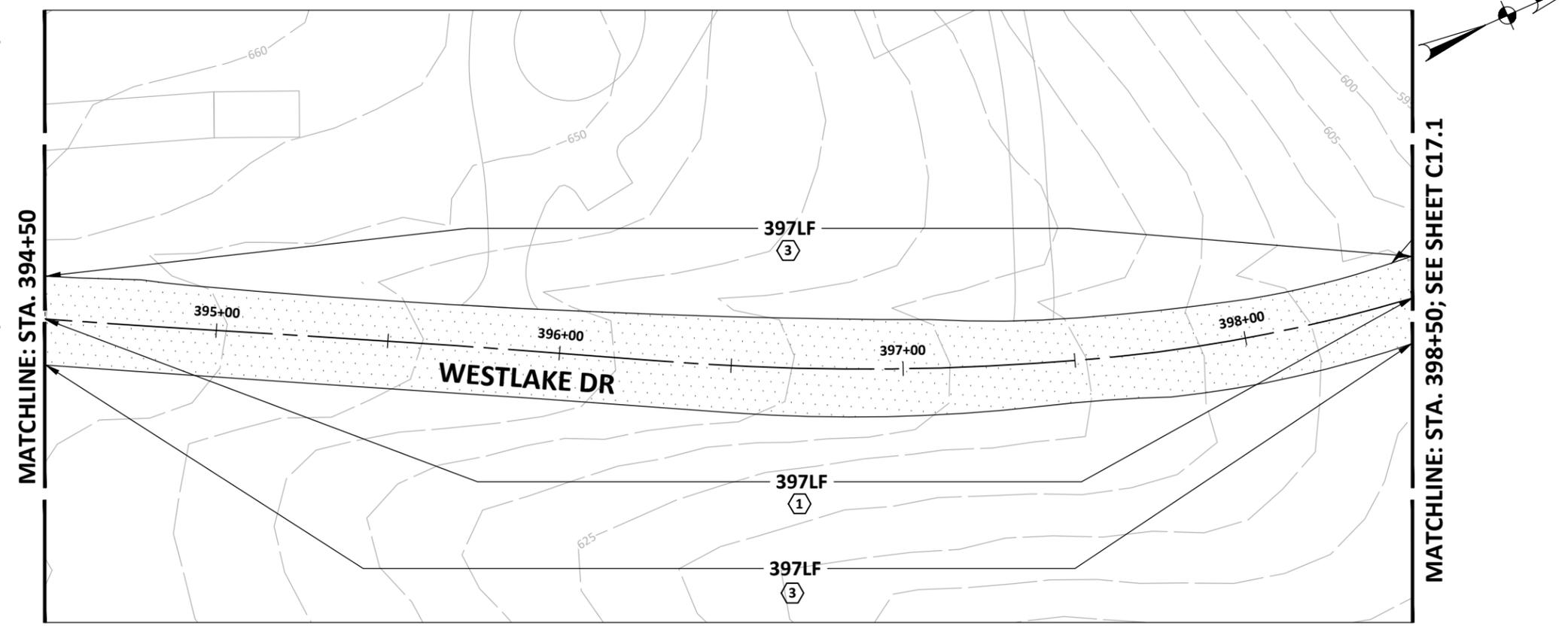
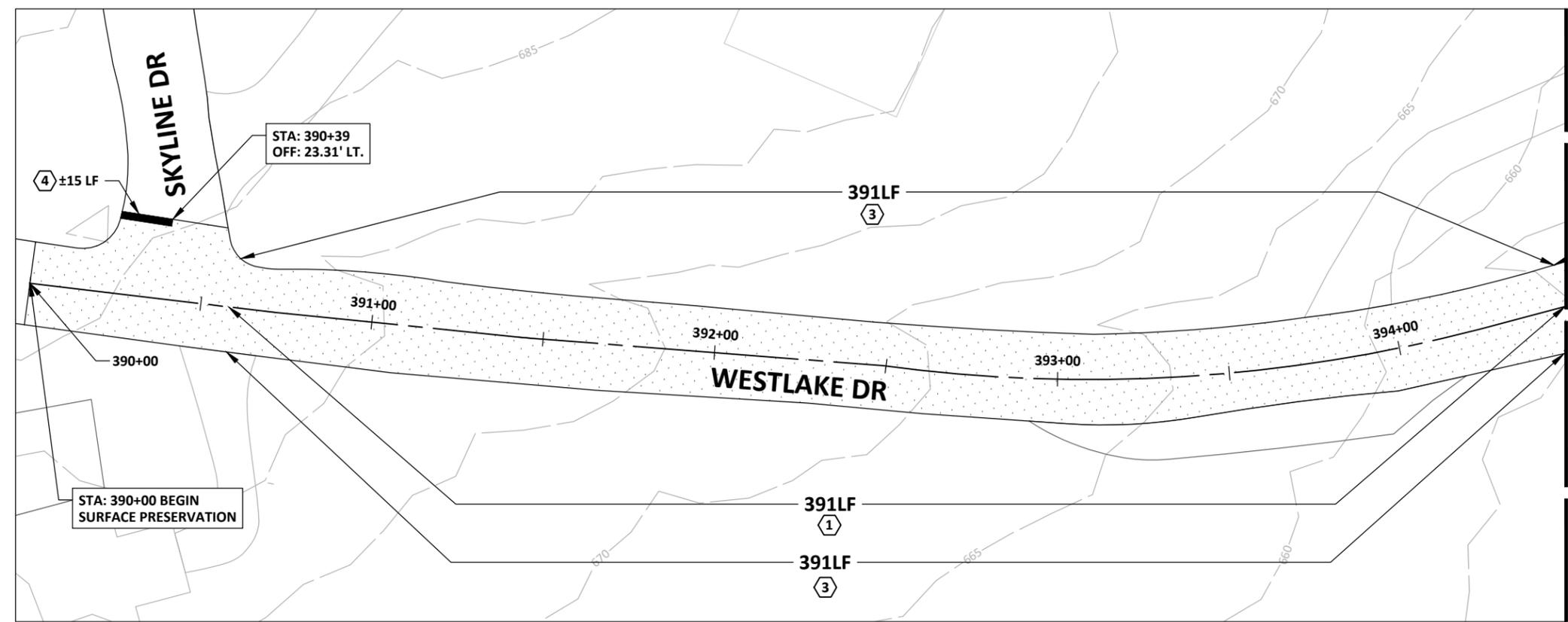
- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- ③ 4" SOLID WHITE EDGE LINE
- ④ 24" SOLID WHITE STOP LINE

PROJECT NO. C02-23011-00

DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE	06-10-2024

WESTLAKE DRIVE

C17.0



Jun 11, 2024 - 11:22am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - WESTLAKE DRIVE.dwg



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401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

SHEET NOTES

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STRIPING KEY NOTES:

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- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
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- ④ 24" SOLID WHITE STOP LINE

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

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ORIGINAL ISSUE	DATE 06-10-2024		

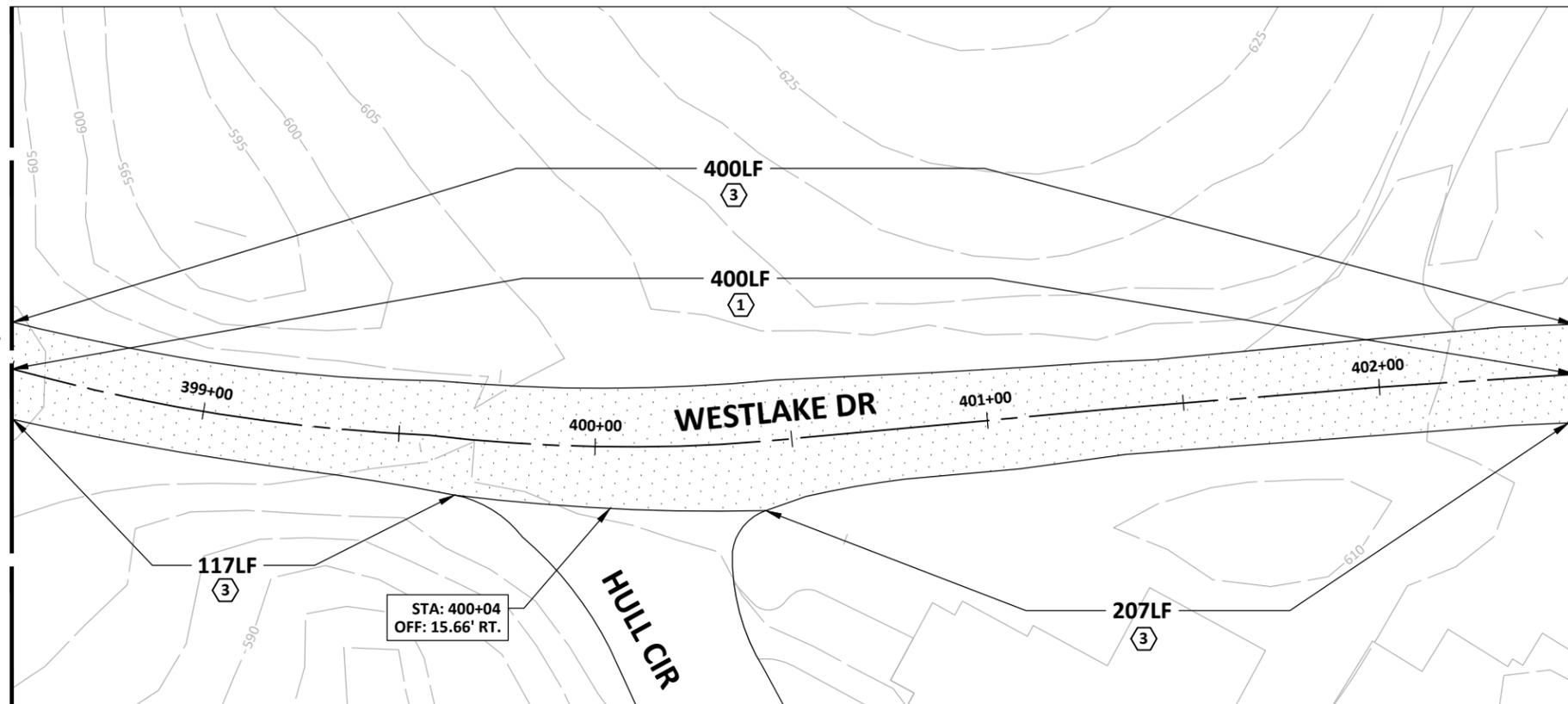
WESTLAKE DRIVE

C17.1

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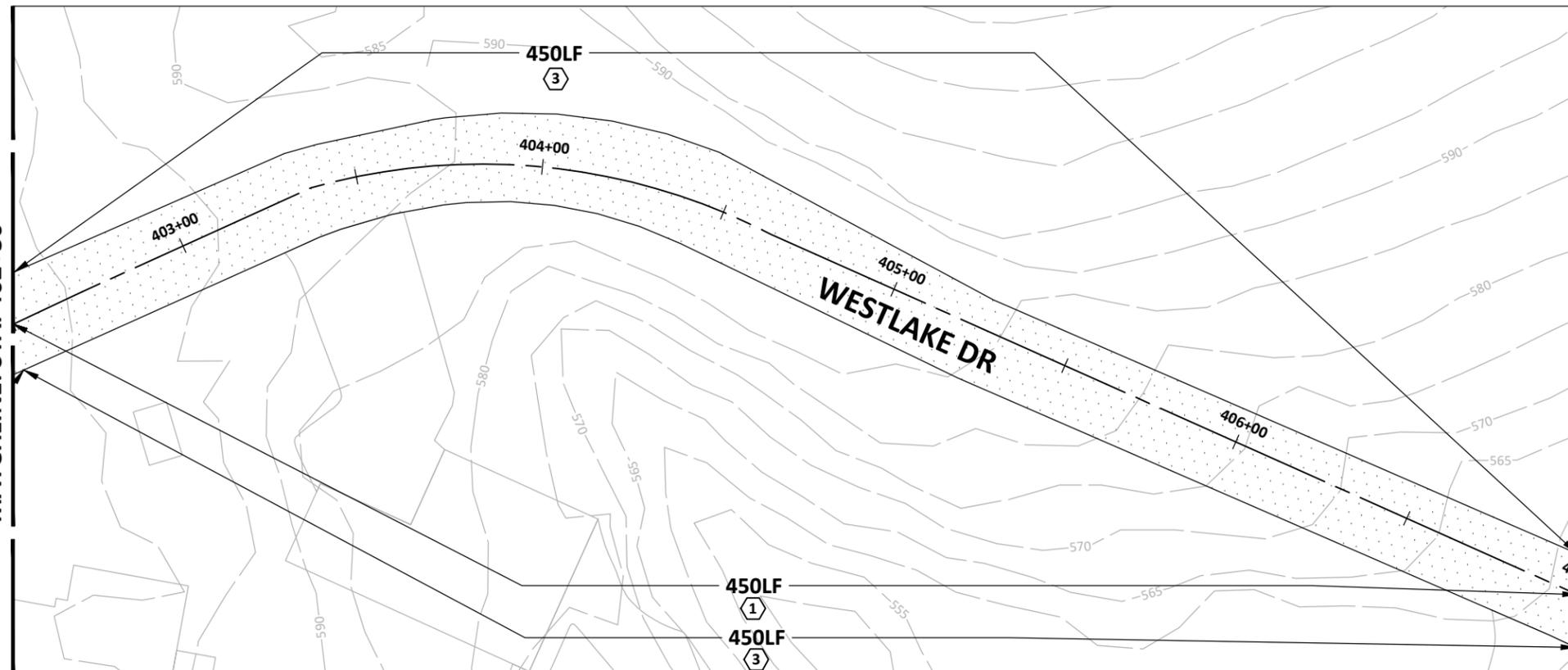
MATCHLINE: STA. 398+50; SEE SHEET C17.0

MATCHLINE: STA. 402+50

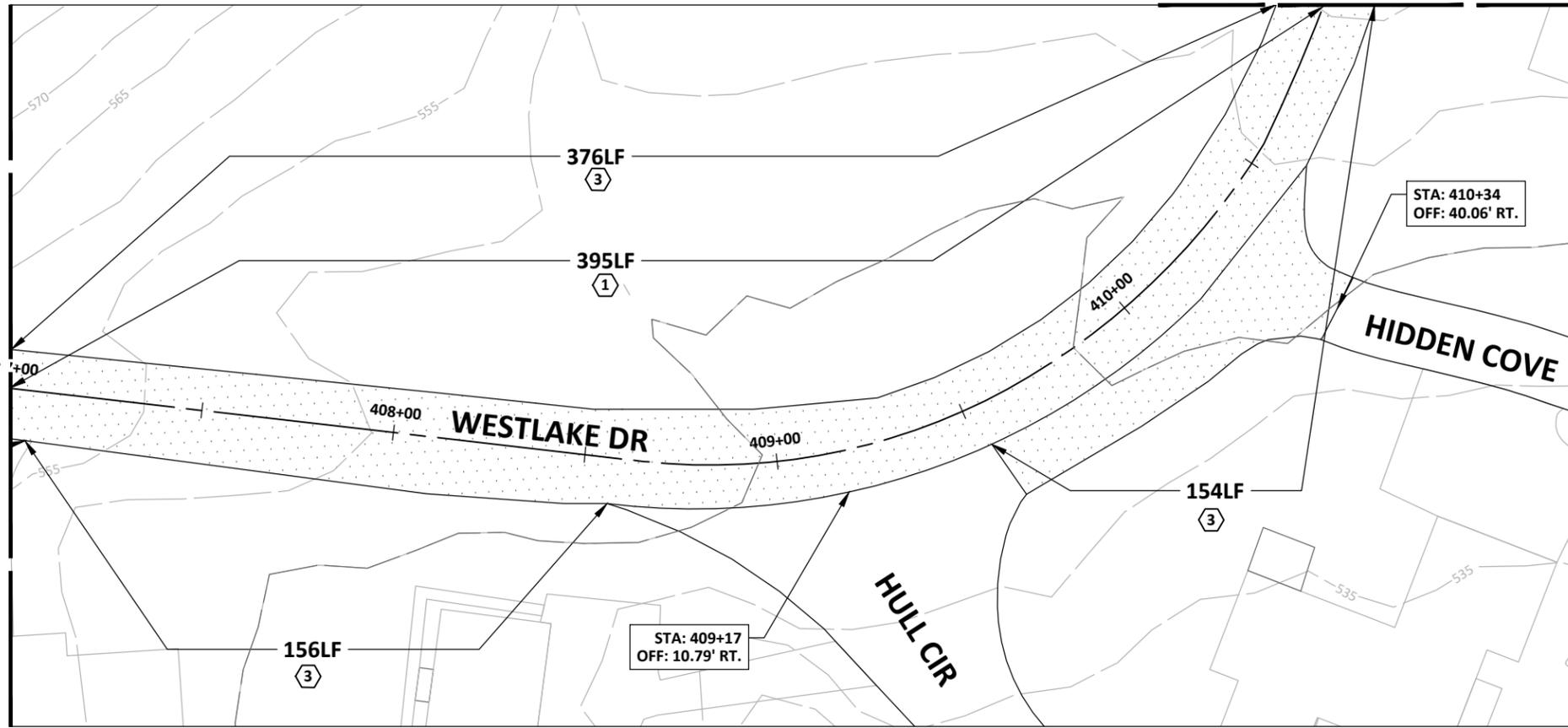


MATCHLINE: STA. 402+50

MATCHLINE: STA. 407+00; SEE SHEET C17.2



MATCHLINE: STA. 411+00



MATCHLINE: STA. 407+00; SEE SHEET C17.1



LEGEND

---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND

[Dotted Pattern]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal Hatching]	2" MILL AND OVERLAY
[Cross-hatching]	CRACK SEAL
[Stippled Pattern]	CRACK SEAL AND SURFACE PRESERVATION



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Austin, Texas 78704

512.330.1270

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

SHEET NOTES

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- SURFACE PRESERVATION TO FOLLOW CITY OF AUSTIN SPECIFICATION S312 - SEAL COAT FOR THE SURFACE PRESERVATION ON WESTLAKE DRIVE.

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

STRIPING KEY NOTES:

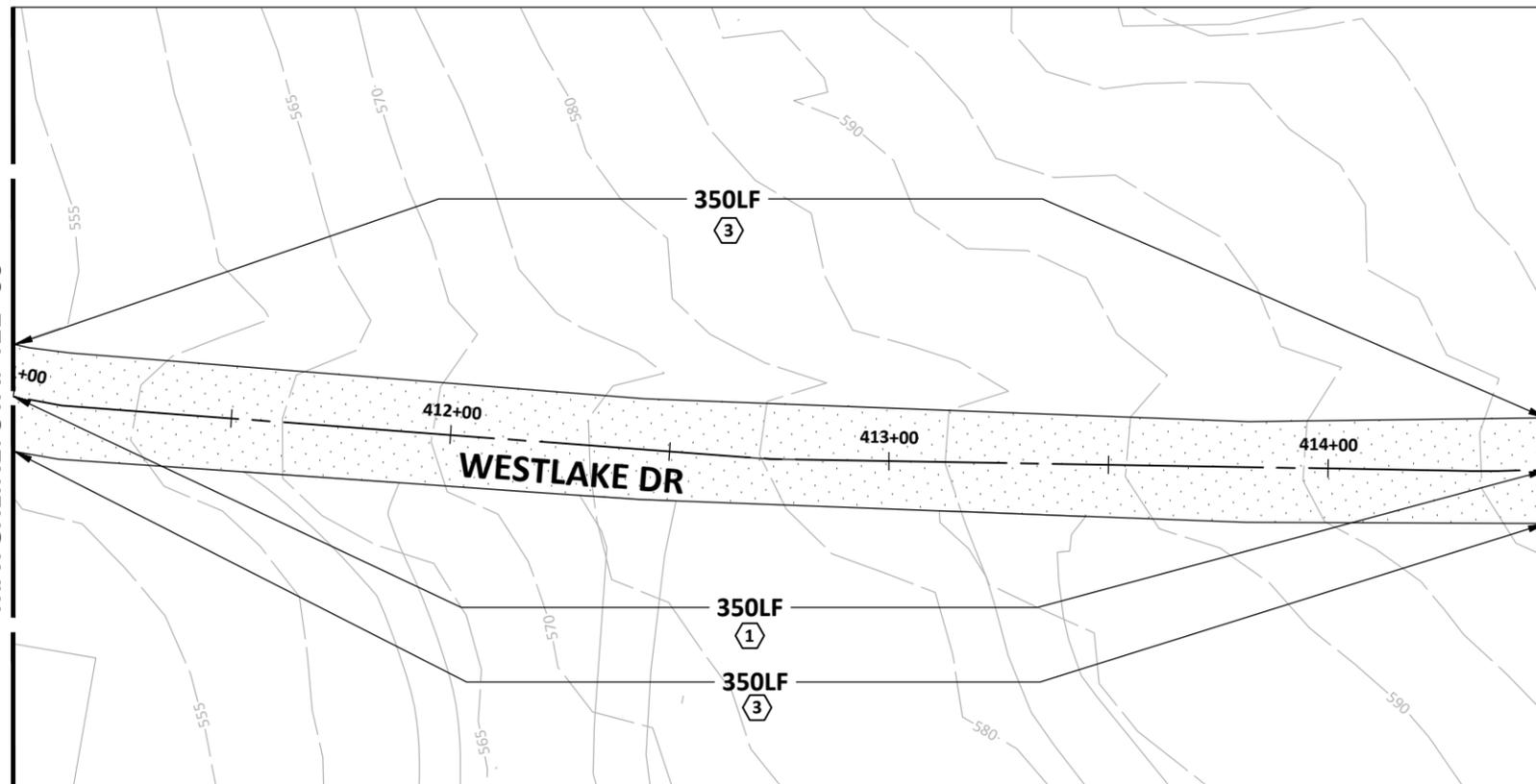
- ① 4" SOLID DOUBLE YELLOW LINE
- ② 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- ③ 4" SOLID WHITE EDGE LINE
- ④ 24" SOLID WHITE STOP LINE

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

WESTLAKE DRIVE

C17.2

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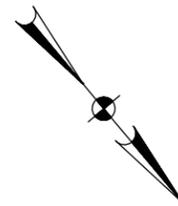
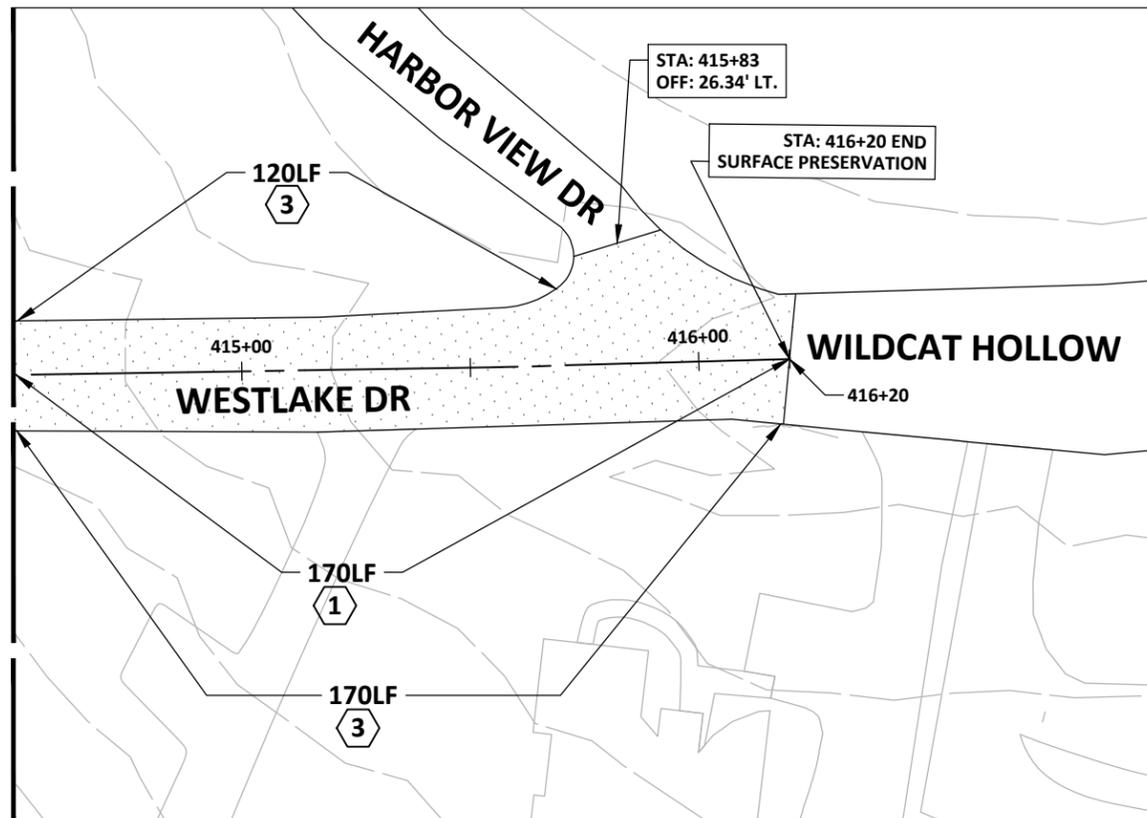


MATCHLINE: STA. 414+50; SEE SHEET C17.3

MATCHLINE: STA. 411+00

Jun 11, 2024 - 11:23am X:\GD\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\02-23011-00-PWMT - WESTLAKE DRIVE.dwg

MATCHLINE: STA. 414+50; SEE SHEET C17.2



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401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



LEGEND

	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND

	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



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- SURFACE PRESERVATION TO FOLLOW CITY OF AUSTIN SPECIFICATION S312 - SEAL COAT FOR THE SURFACE PRESERVATION ON WESTLAKE DRIVE.

NO.	DATE	REVISION

STRIPING KEY NOTES:

- 4" SOLID DOUBLE YELLOW LINE
- 4" SOLID DOUBLE YELLOW LINE WITH REFLECTORS @10'C-C
- 4" SOLID WHITE EGDE LINE
- 24" SOLID WHITE STOP LINE

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE	06-10-2024

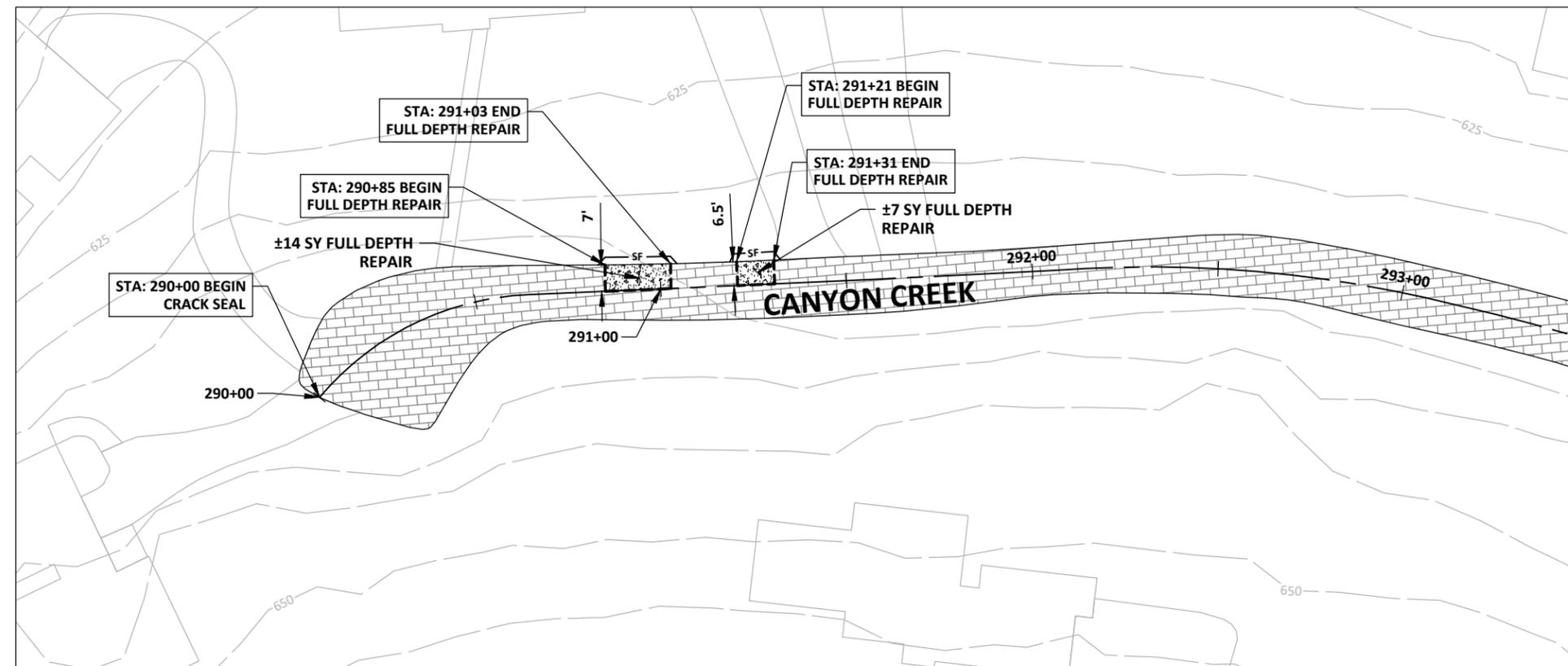
WESTLAKE DRIVE

C17.3



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

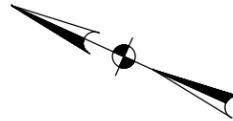
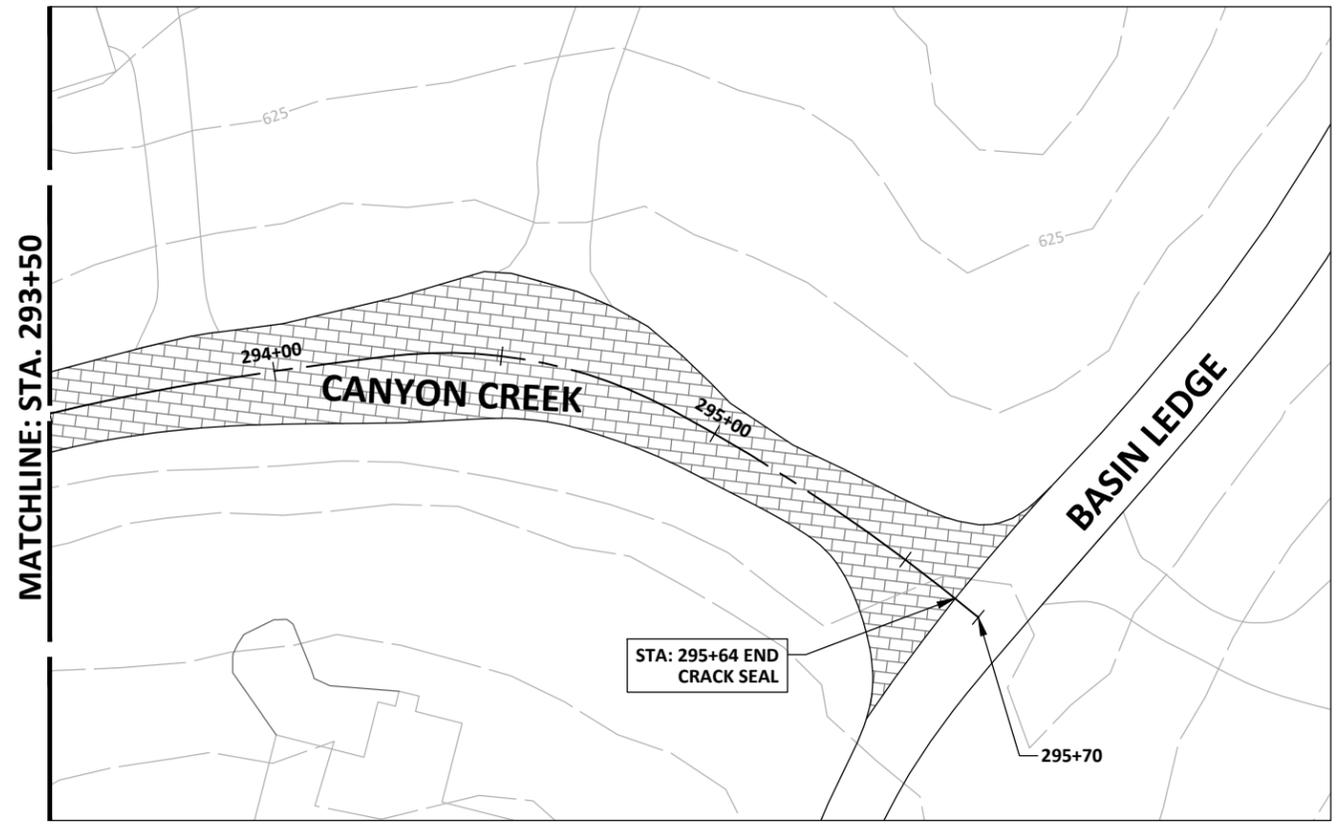
Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE	06-10-2024



Jun 11, 2024 - 11:24am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - CANYON CREEK.dwg

CANYON CREEK

C18.0

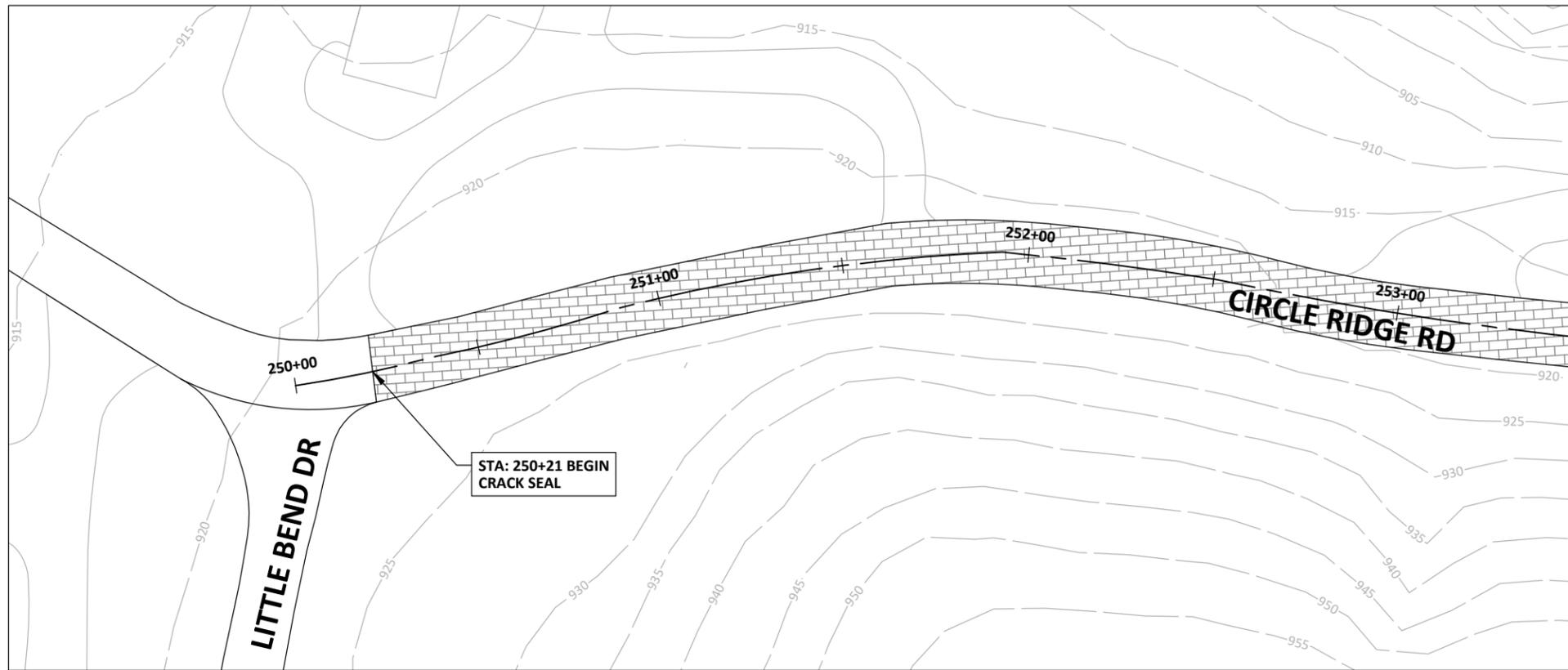


Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



SCALE: 1" = 40'



MATCHLINE: STA. 253+50

LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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Susan Smith-Turrieta

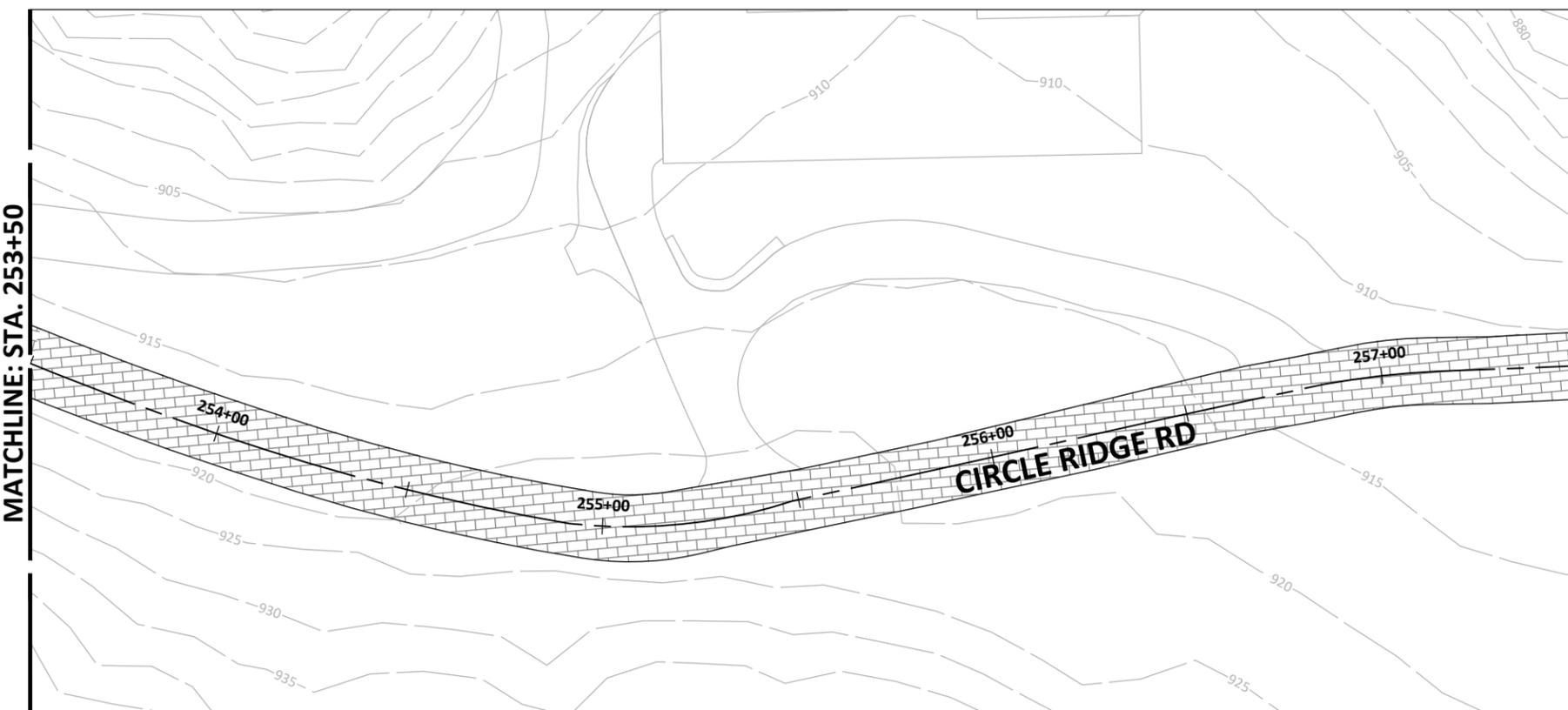
NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE 06-10-2024	

CIRCLE RIDGE DR

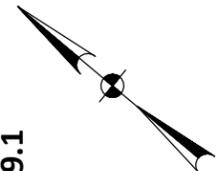
C19.0

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MATCHLINE: STA. 253+50

MATCHLINE: STA. 257+50; SEE SHEET C19.1





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Austin, Texas 78704

512.330.1270



SCALE: 1" = 40'

LEGEND

	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND

	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

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06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

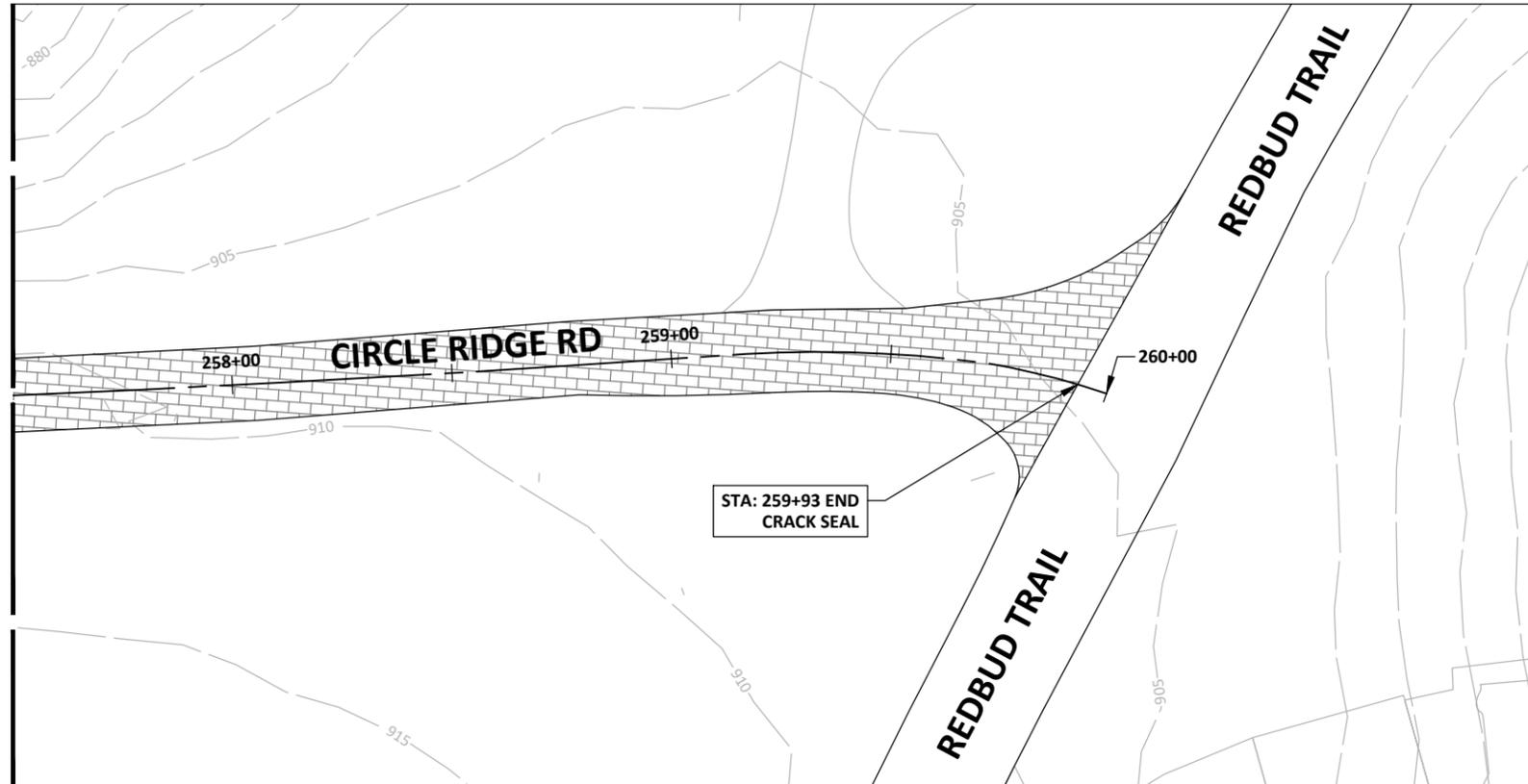
PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE	DATE 06-10-2024

CIRCLE RIDGE DR

C19.1

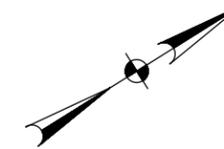
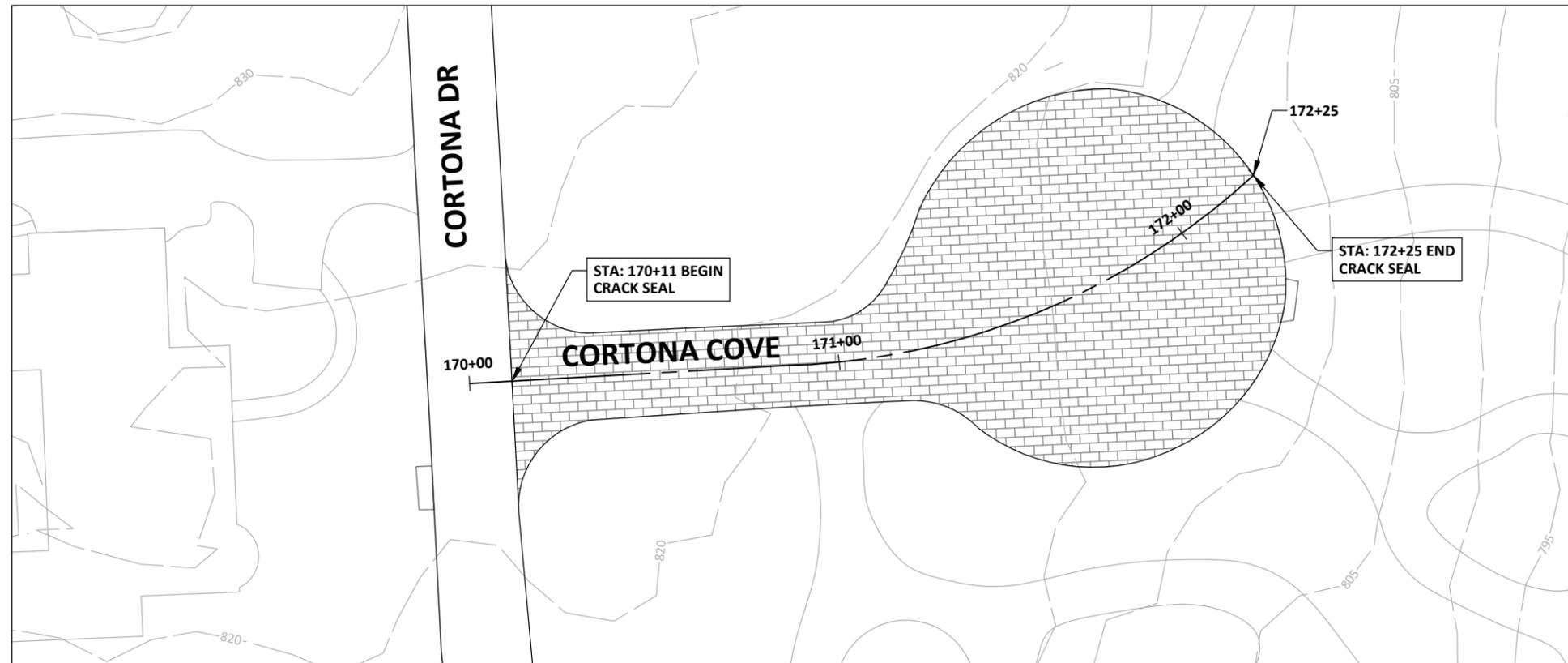
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MATCHLINE: STA. 257+50; SEE SHEET C19.0



STA: 259+93 END
CRACK SEAL

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SCALE: 1" = 40'

LEGEND

---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND

[Brick Hatching]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal Hatching]	2" MILL AND OVERLAY
[Brick Hatching]	CRACK SEAL
[Dotted Hatching]	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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& DRAINAGE
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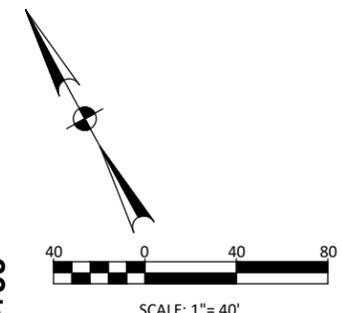
CORTONA COVE

C20.0



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401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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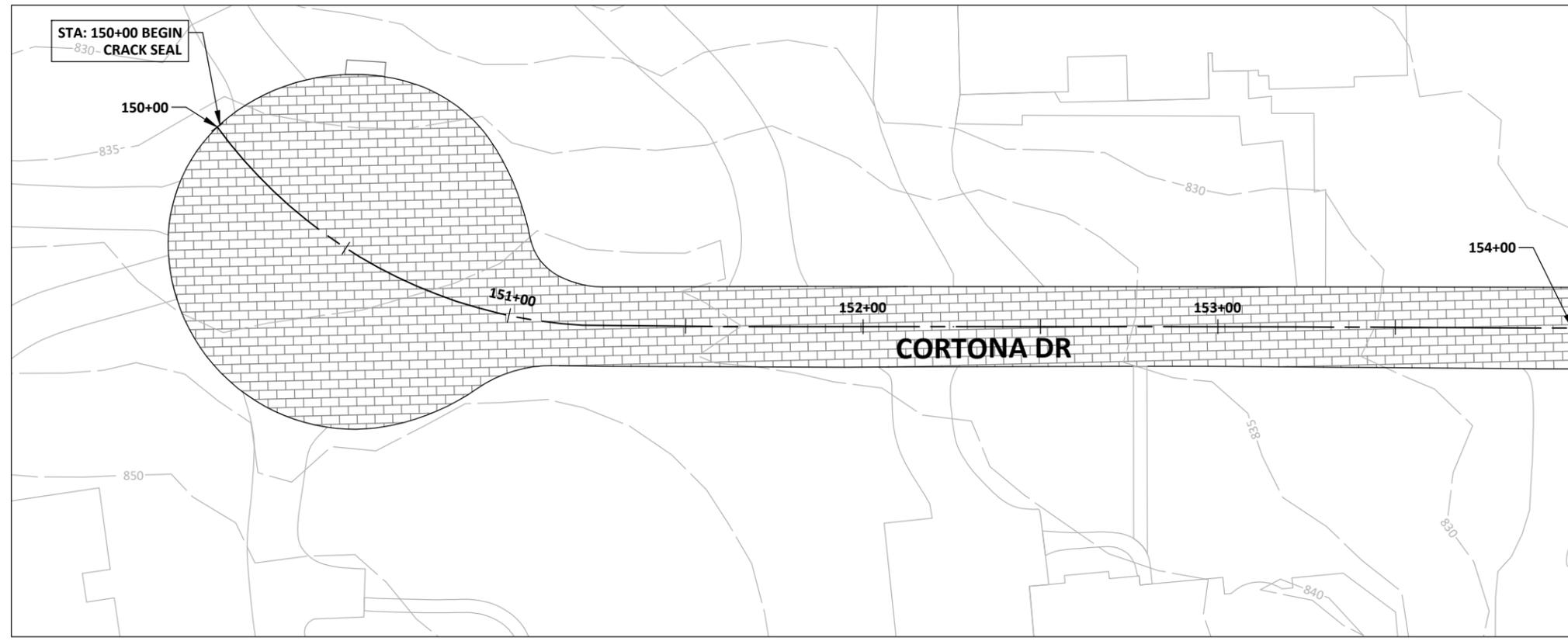
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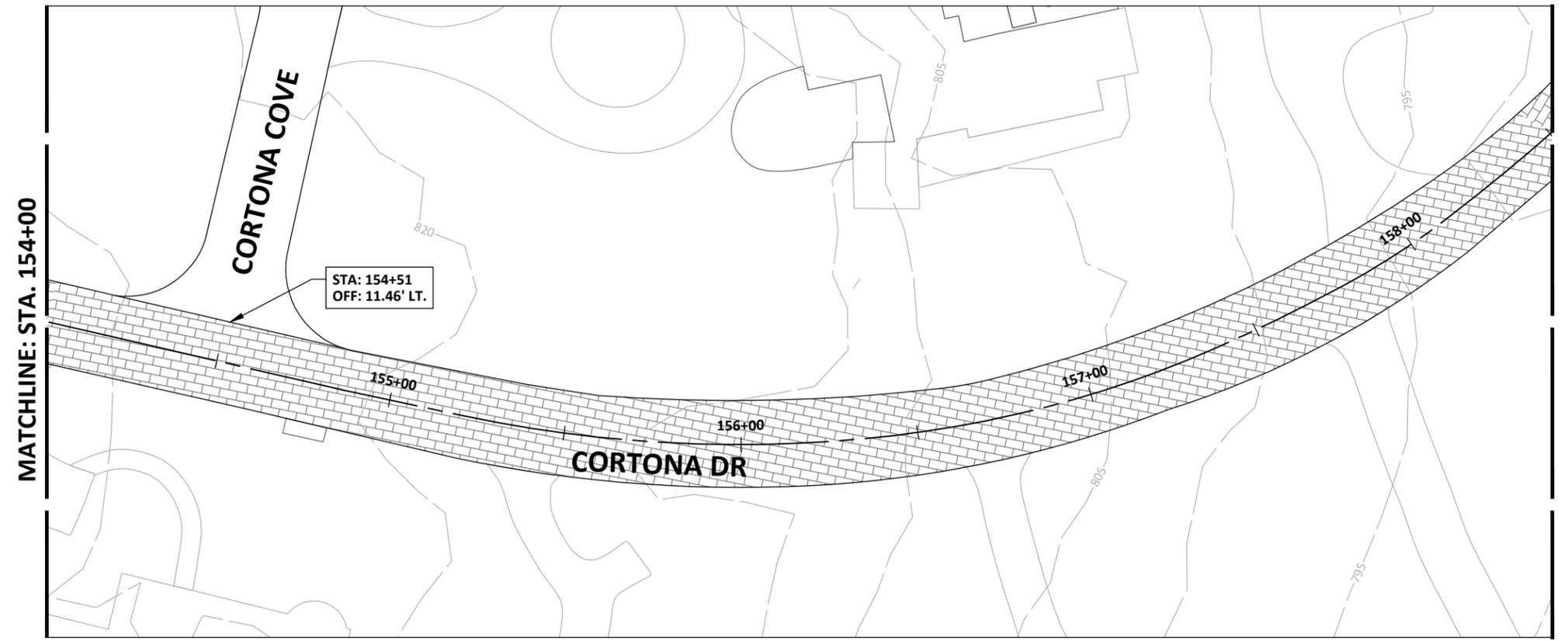
CORTONA DR

C21.0

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MATCHLINE: STA. 154+00

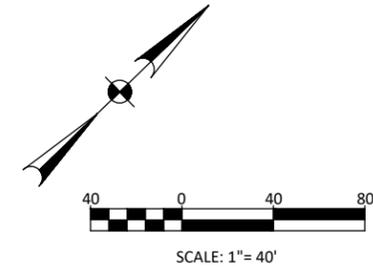
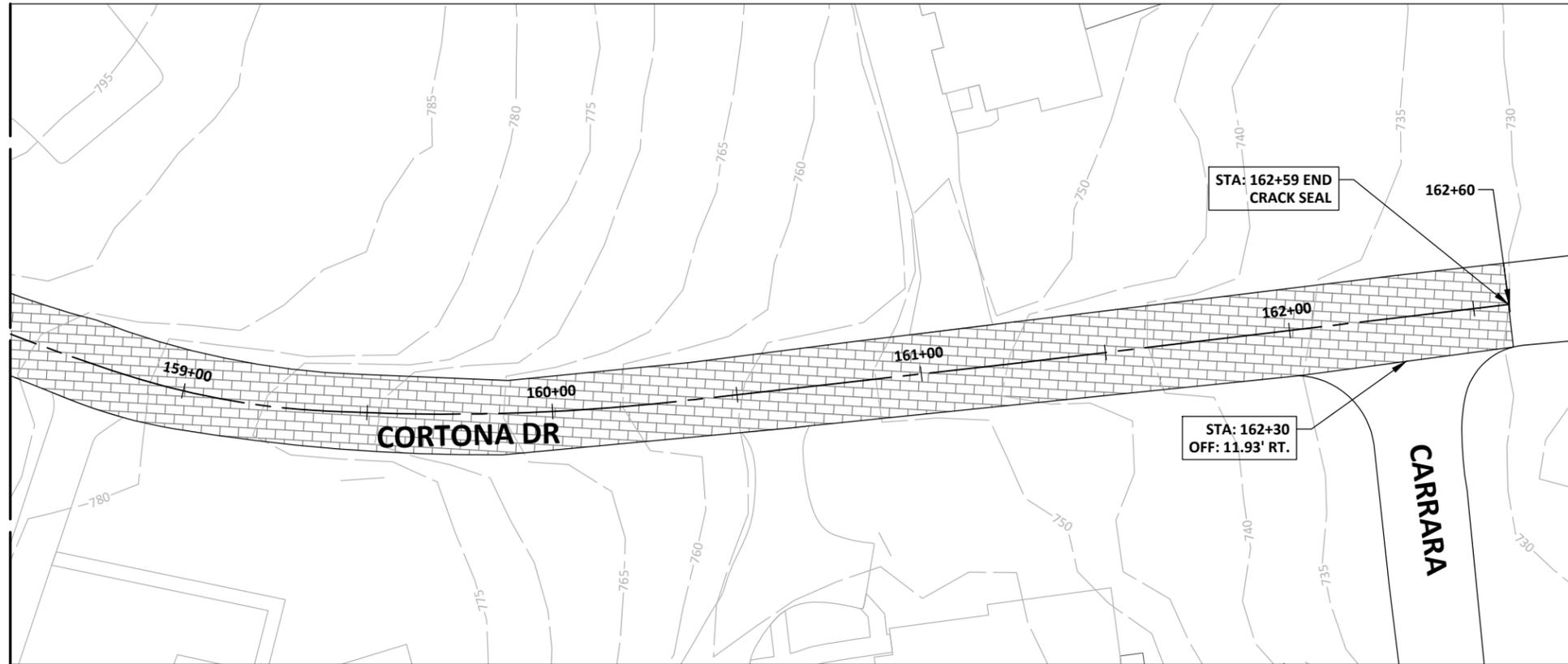


MATCHLINE: STA. 158+50; SEE SHEET C21.1

SHEET NOTES

- PAVEMENT SHAPES AND RIGHT-OF-WAY ARE ESTIMATED BASED ON SURVEY DATA SUPPLEMENTED WITH CITY OF AUSTIN GIS DATA. ACTUAL WIDTHS MAY VARY FROM DIMENSIONS SHOWN ON PLANS.
- PAVEMENT RESURFACING QUANTITIES, PATCH REPAIR, AND CRACK SEALING LOCATIONS ARE APPROXIMATE. FINAL LIMITS WILL BE IDENTIFIED DURING THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.

MATCHLINE: STA. 158+50; SEE SHEET C21.0



LEGEND	
---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND	
[Stippled Hatch]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Diagonal Hatch]	2" MILL AND OVERLAY
[Brick Hatch]	CRACK SEAL
[Dotted Hatch]	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

- PAVEMENT SHAPES AND RIGHT-OF-WAY ARE ESTIMATED BASED ON SURVEY DATA SUPPLEMENTED WITH CITY OF AUSTIN GIS DATA. ACTUAL WIDTHS MAY VARY FROM DIMENSIONS SHOWN ON PLANS.
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 401 S 1st St., Suite 600
 Austin, Texas 78704
 512.330.1270

**CITY OF WEST LAKE
 HILLS STREET REHAB
 & DRAINAGE
 IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
 TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE	06-10-2024

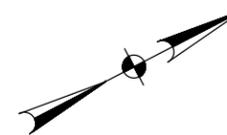
CORTONA DR

C21.1



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Austin, Texas 78704

512.330.1270



LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

1. PAVEMENT SHAPES AND RIGHT-OF-WAY ARE ESTIMATED BASED ON SURVEY DATA SUPPLEMENTED WITH CITY OF AUSTIN GIS DATA. ACTUAL WIDTHS MAY VARY FROM DIMENSIONS SHOWN ON PLANS.
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HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024
Susan Smith-Turrieta

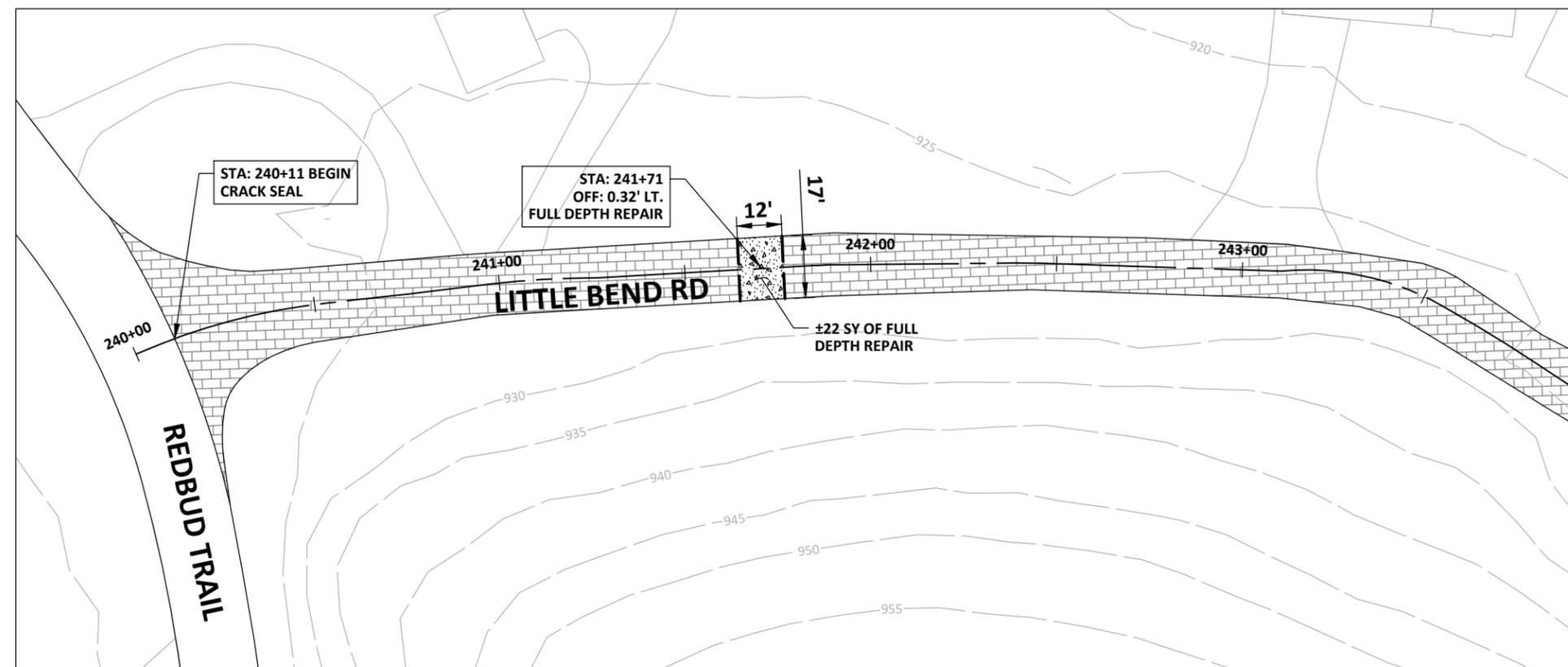
NO.	DATE	REVISION

PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE	06-10-2024

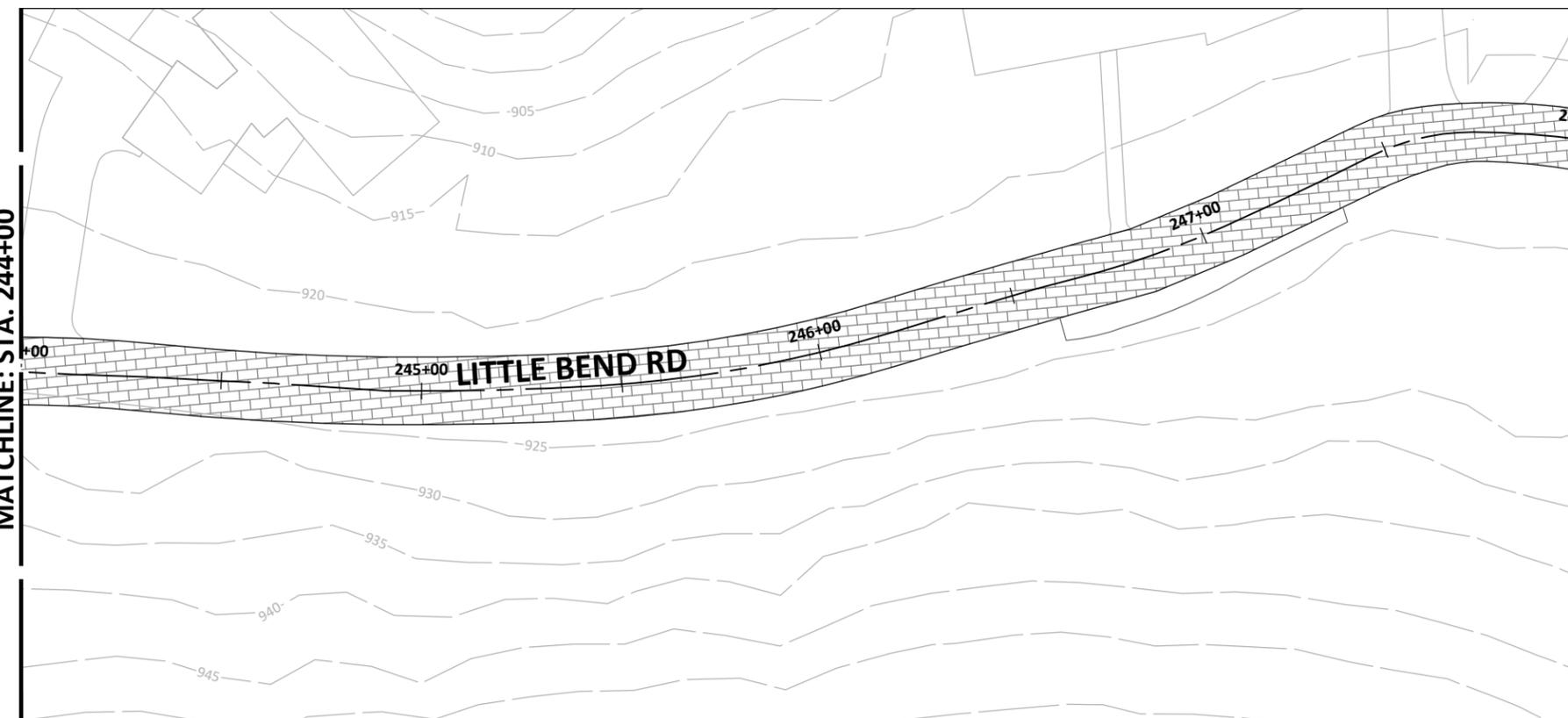
LITTLE BEND RD

C22.0

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MATCHLINE: STA. 244+00



MATCHLINE: STA. 248+00; SEE SHEET C22.1

Jun 11, 2024 - 11:25am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - LITTLE BEND RD.dwg



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Austin, Texas 78704

512.330.1270



SCALE: 1" = 40'

LEGEND

	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND

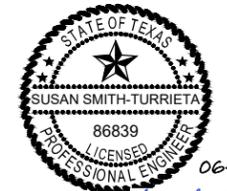
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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& DRAINAGE
IMPROVEMENTS**

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TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

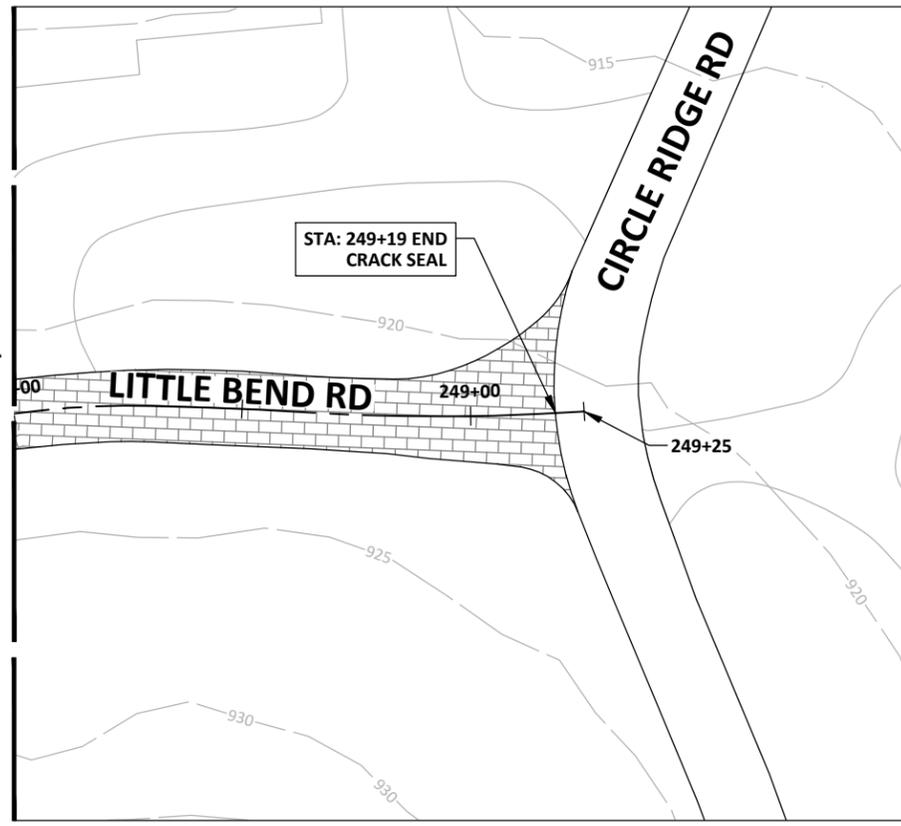
NO.	DATE	REVISION

PROJECT NO.	C02-23011-00	
DESIGNED BY	REVIEWED BY	DRAWN BY
ZS/ESM	SST	AC
ORIGINAL ISSUE	DATE	
	06-10-2024	

LITTLE BEND RD

C22.1

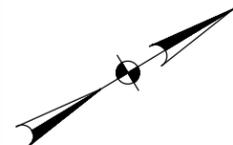
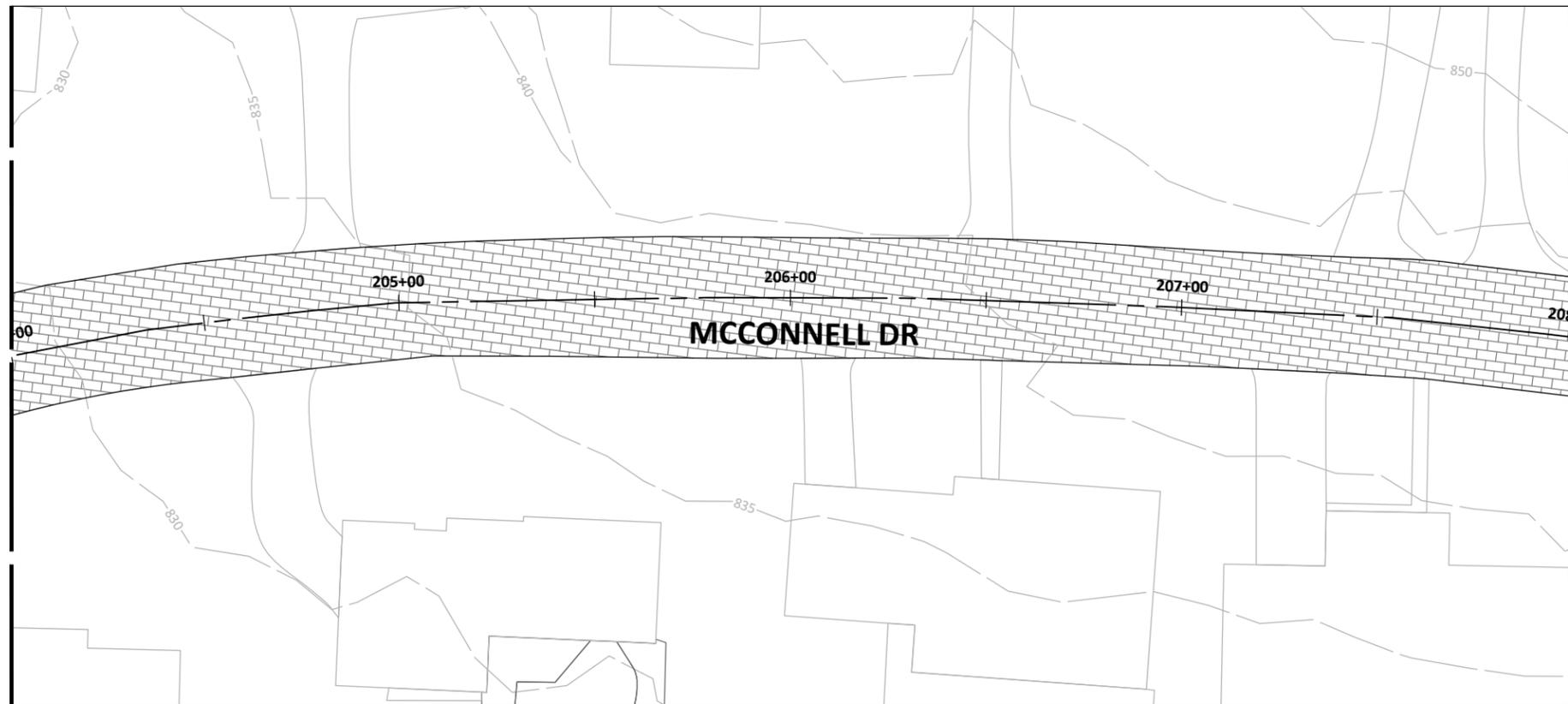
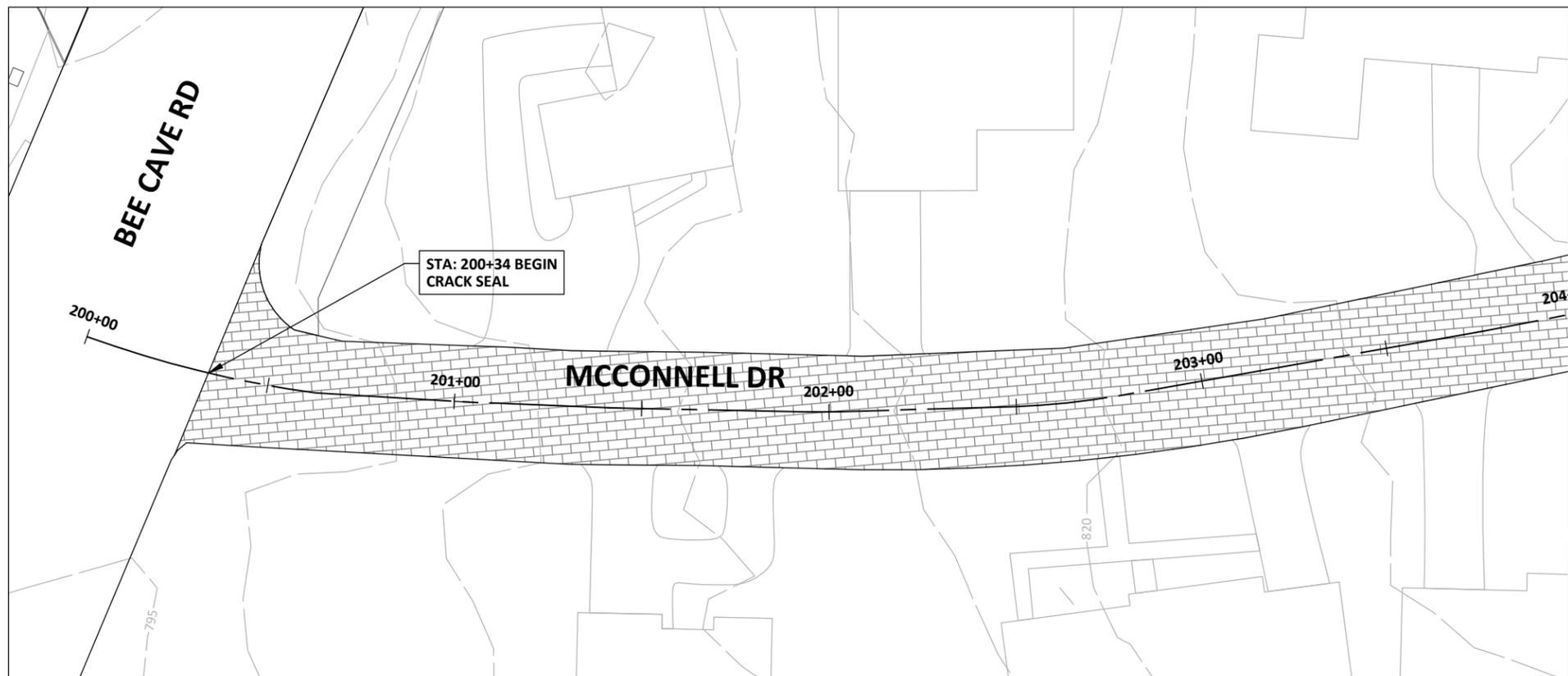
MATCHLINE: STA. 258+00; SEE SHEET C22.0





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Austin, Texas 78704

512.330.1270



LEGEND	
---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE 06-10-2024	

MCCONNELL DR

C23.0

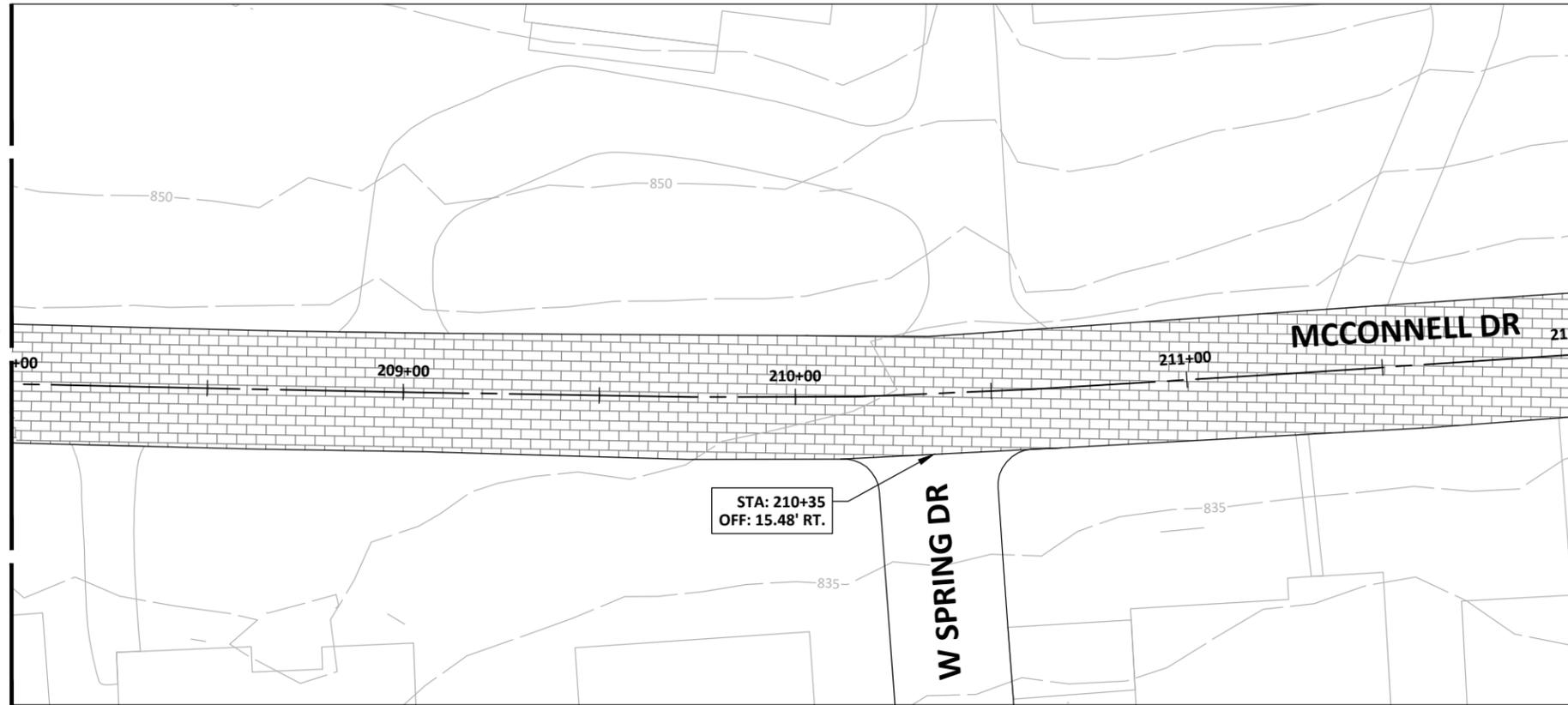
Jun 11, 2024 - 11:26am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - MC CONNELL DR.dwg



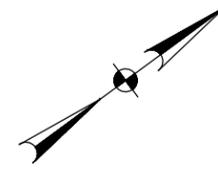
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Austin, Texas 78704

512.330.1270

MATCHLINE: STA. 208+00; SEE SHEET C23.0



MATCHLINE: STA. 212+00



SCALE: 1" = 40'

LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

SHEET NOTES

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06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

MATCHLINE: STA. 212+00



Jun 11, 2024 - 11:26am X:\02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PWMT - MC CONNELL DR.dwg

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

MCCONNELL DR

C23.1



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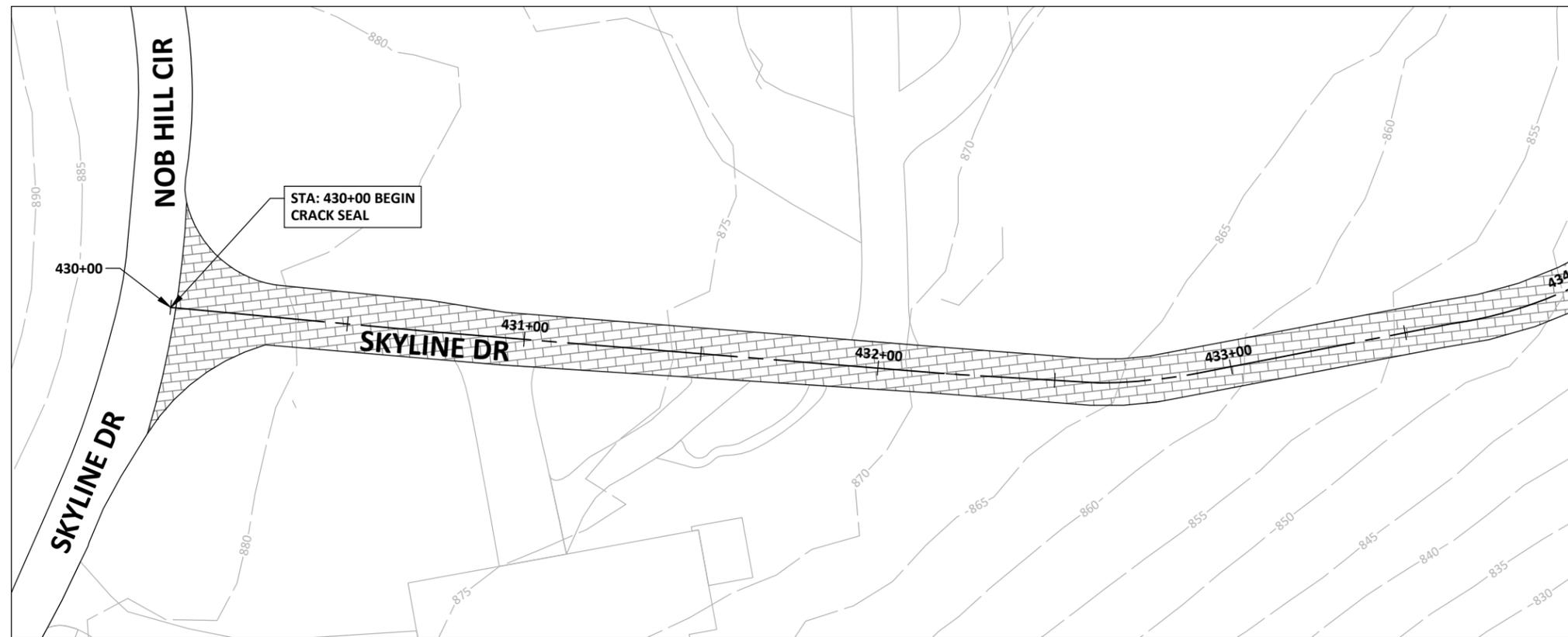
SCALE: 1" = 40'

LEGEND

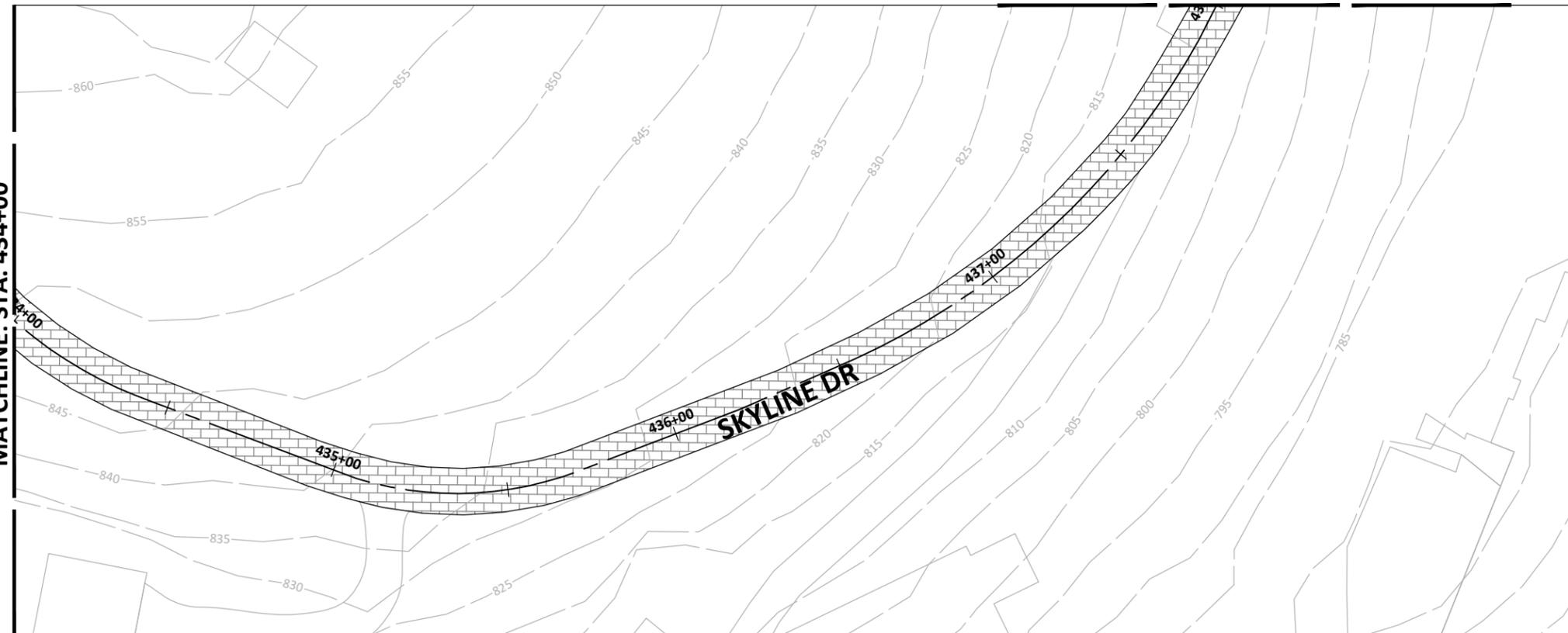
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND

	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION



MATCHLINE: STA. 438+00; SEE SHEET C24.1



SHEET NOTES

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06-11-2024

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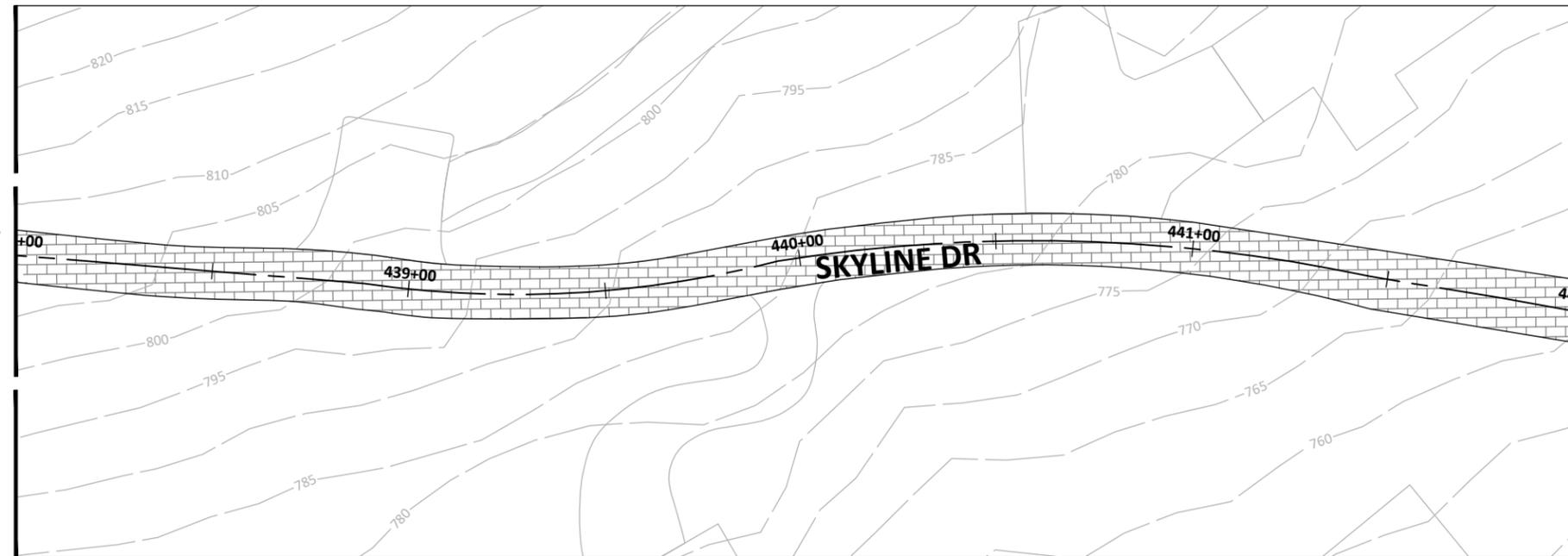
SKYLINE DR

C24.0

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Jun 11, 2024 - 11:27am X:\02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\02-23011-00-PWMT - SKYLINE DR.dwg

MATCHLINE: STA. 438+00; SEE SHEET C24.0



MATCHLINE: STA. 442+00

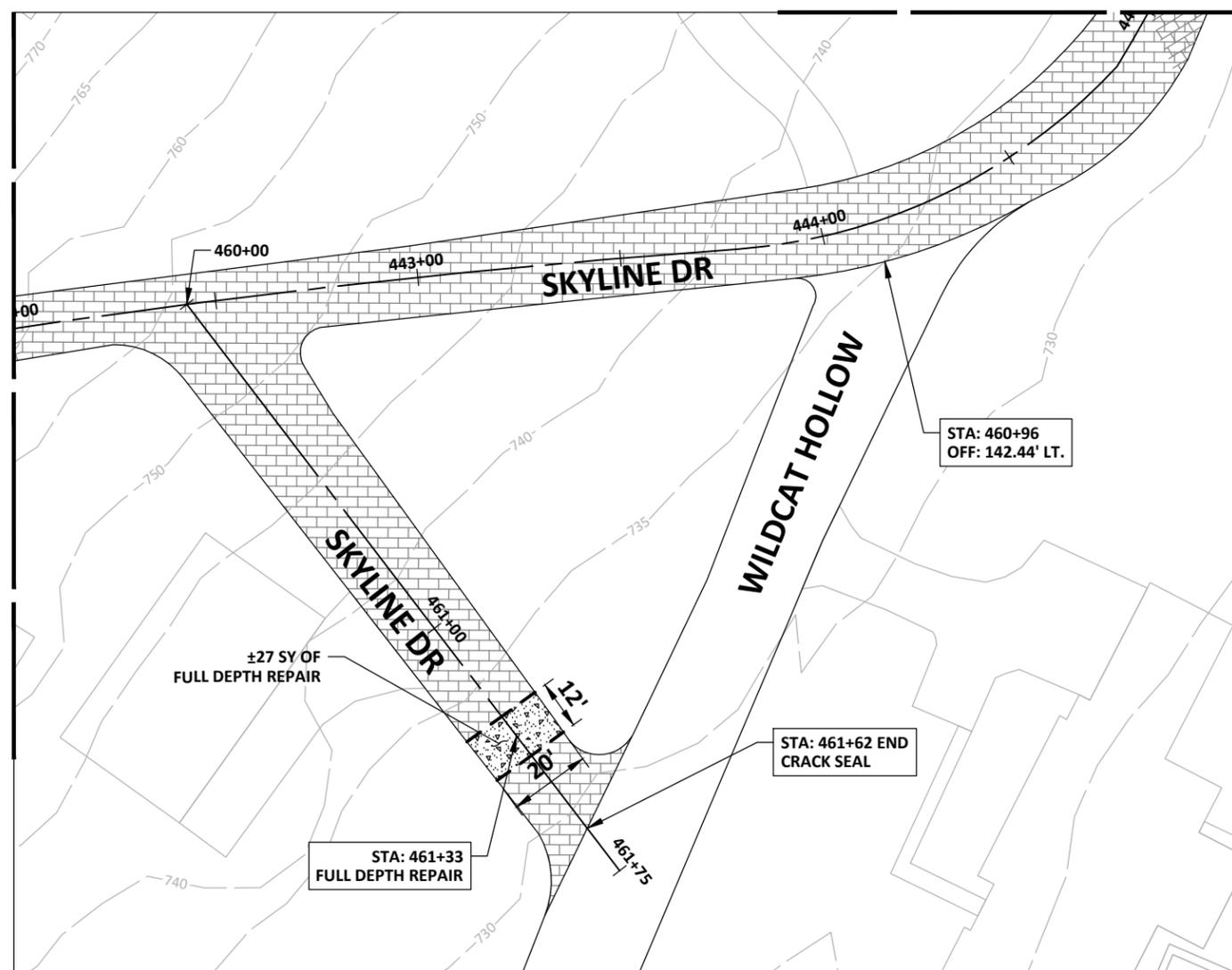


LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

MATCHLINE: STA. 445+00; SEE SHEET C24.2

MATCHLINE: STA. 442+00



SHEET NOTES

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**CITY OF WEST LAKE
HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
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06-11-2024

Susan Smith-Turrieta

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DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE	06-10-2024

SKYLINE DR

C24.1



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LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

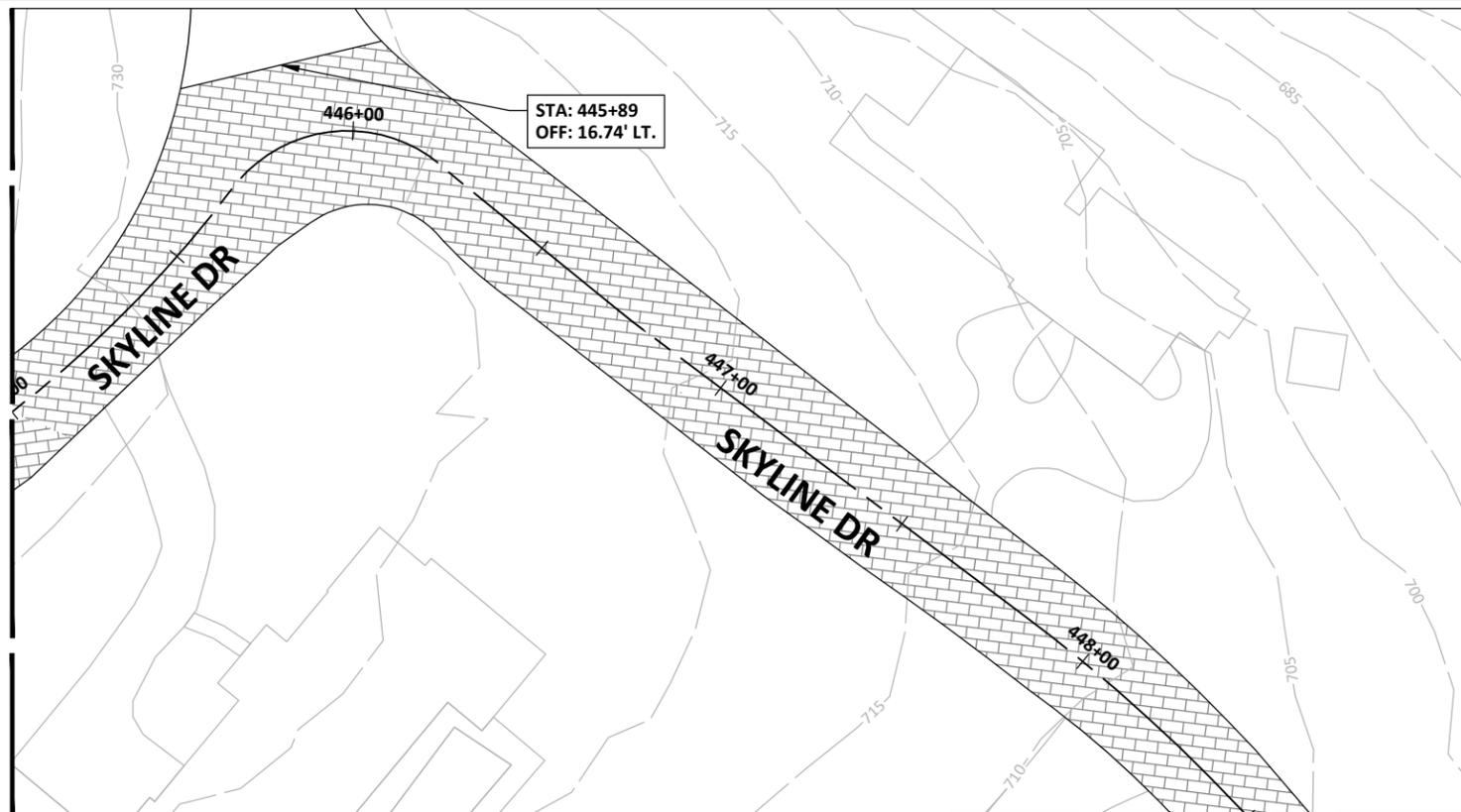
NO.	DATE	REVISION

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	ORIGINAL ISSUE	DATE 06-10-2024	

SKYLINE DR

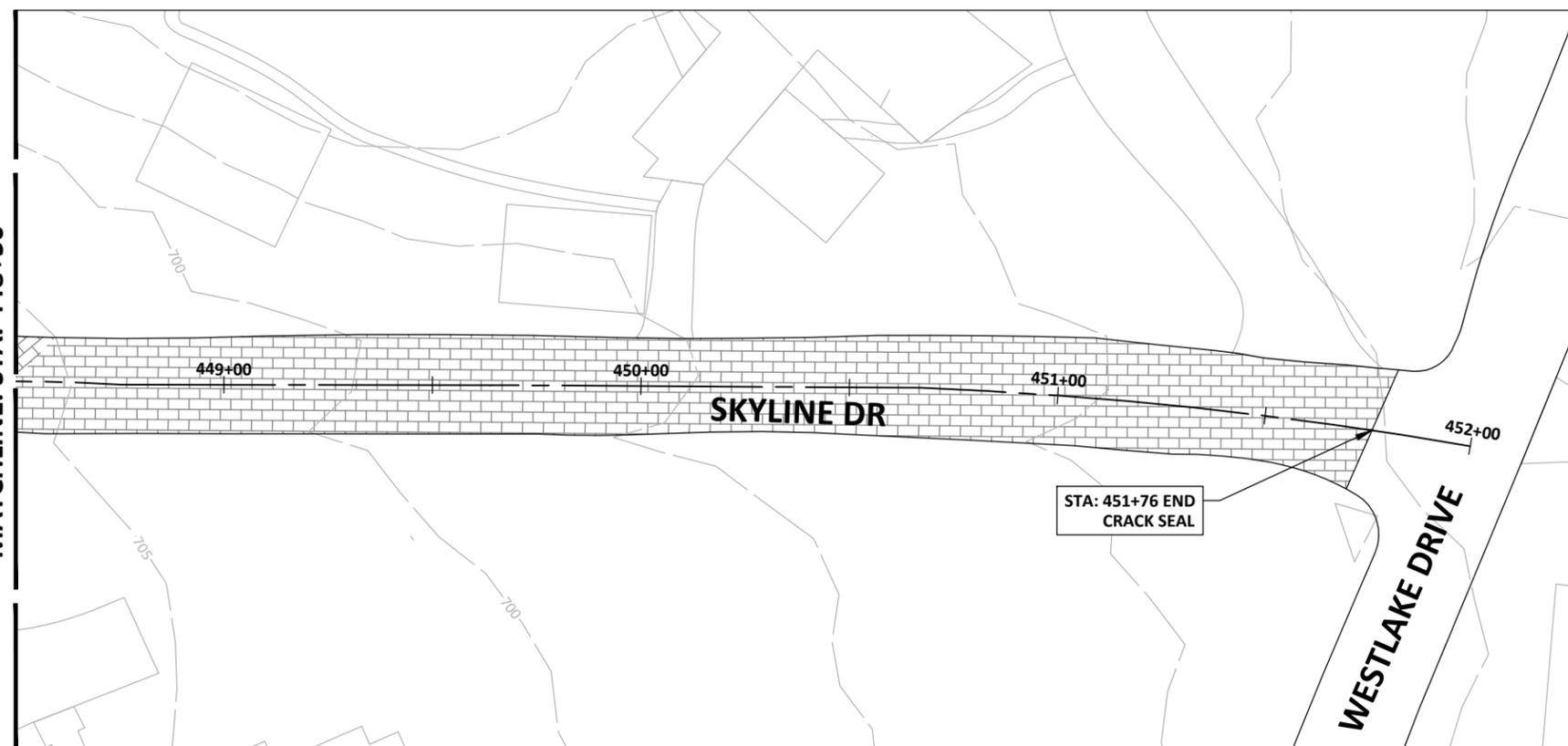
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MATCHLINE: STA. 445+00; SEE SHEET C24.1



MATCHLINE: STA. 448+50

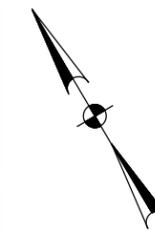
MATCHLINE: STA. 448+50





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401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270



SCALE: 1" = 40'

LEGEND

---	SAWCUT
MS	MULCH SOCK
TFD	TRIANGULAR FILTER DIKE
SF	SILT FENCE

HATCH LEGEND

[Hatch pattern]	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
[Hatch pattern]	2" MILL AND OVERLAY
[Hatch pattern]	CRACK SEAL
[Hatch pattern]	CRACK SEAL AND SURFACE PRESERVATION

SHEET NOTES

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HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
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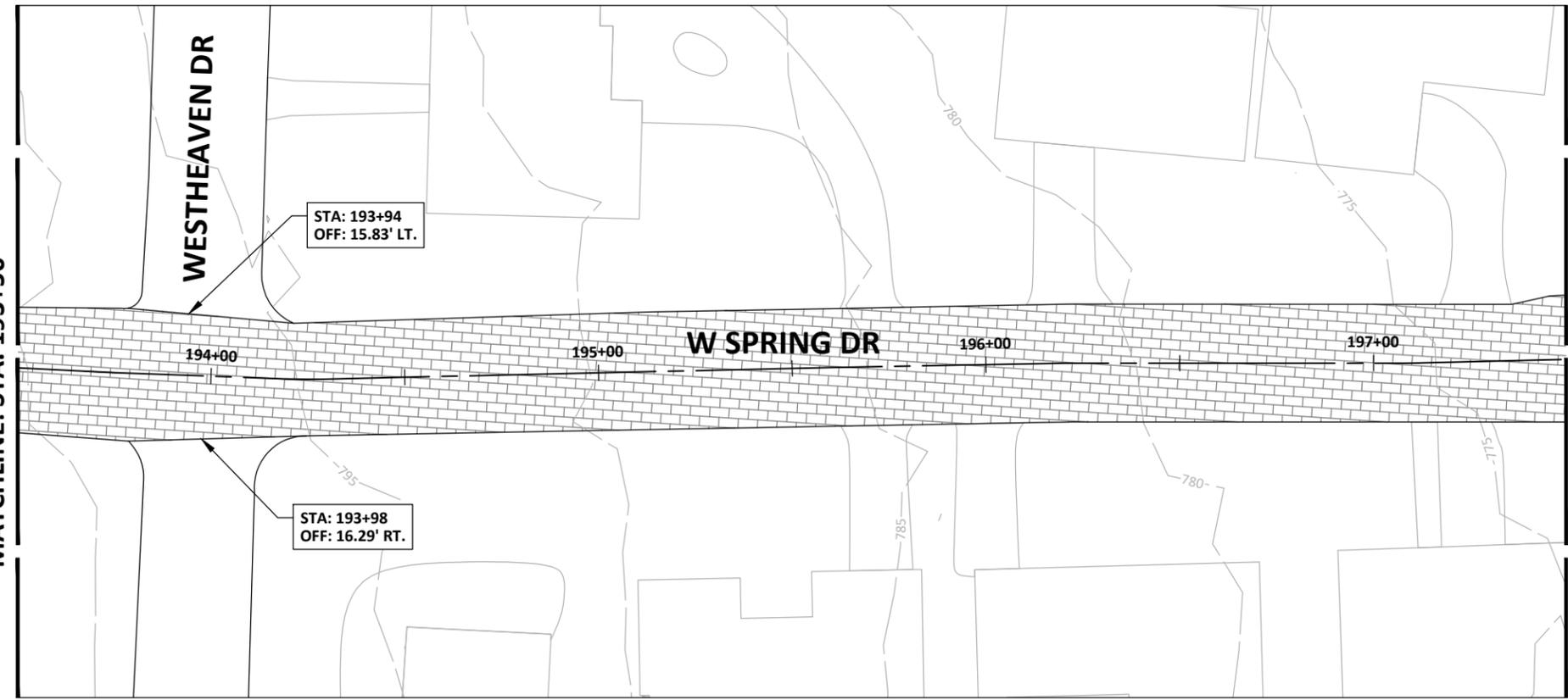
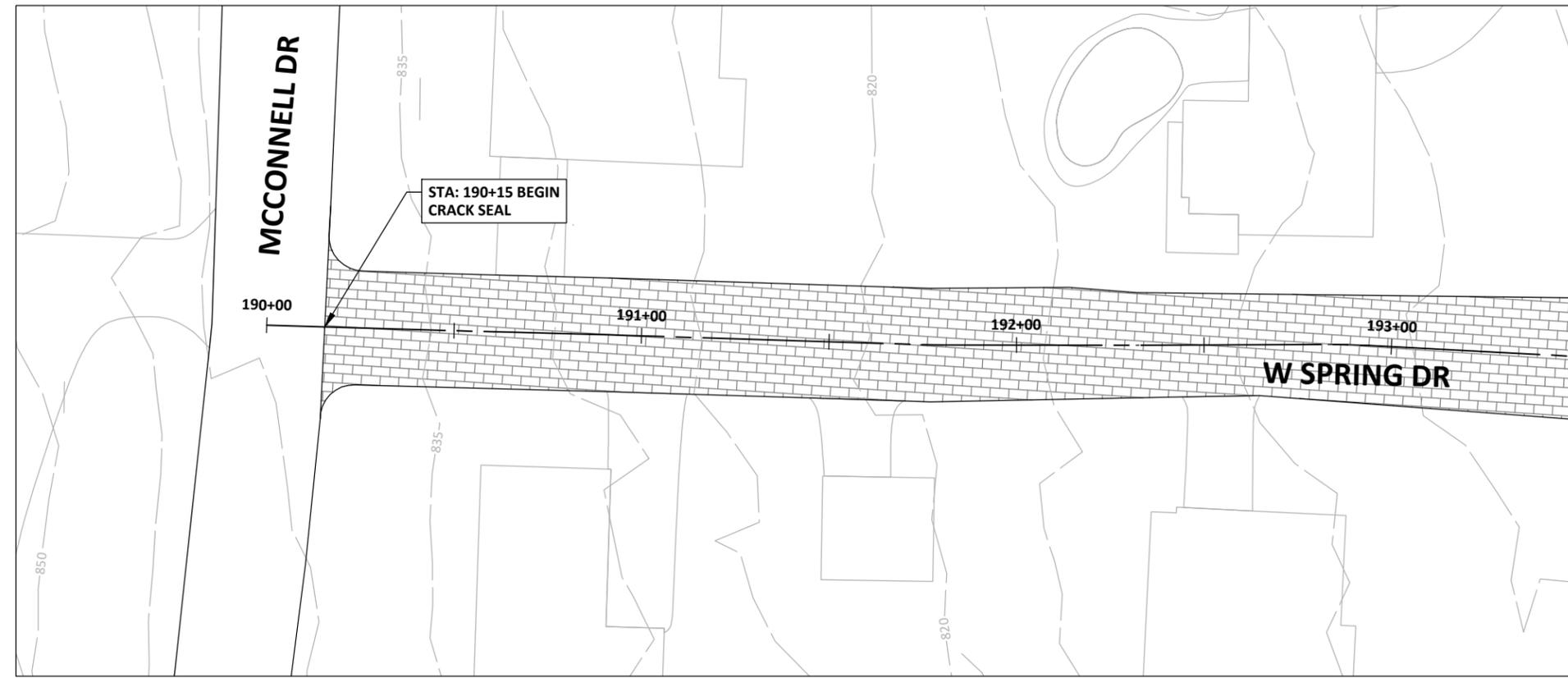
Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE 06-10-2024	

WEST SPRING DR

C25.0

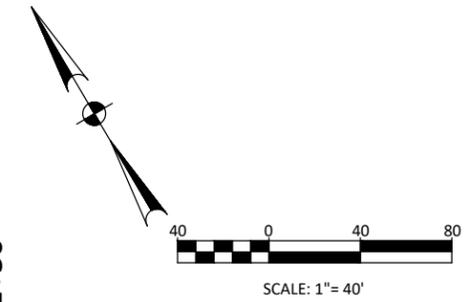


Jun 11, 2024 - 11:28am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-PVMT - WEST SPRING DR.dwg



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LEGEND	
	SAWCUT
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE

HATCH LEGEND	
	FULL DEPTH REPAIR. REFER DETAIL 1 ON SHEET C25.0
	2" MILL AND OVERLAY
	CRACK SEAL
	CRACK SEAL AND SURFACE PRESERVATION

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HILLS STREET REHAB
& DRAINAGE
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TBPE Firm Registration No. 1856



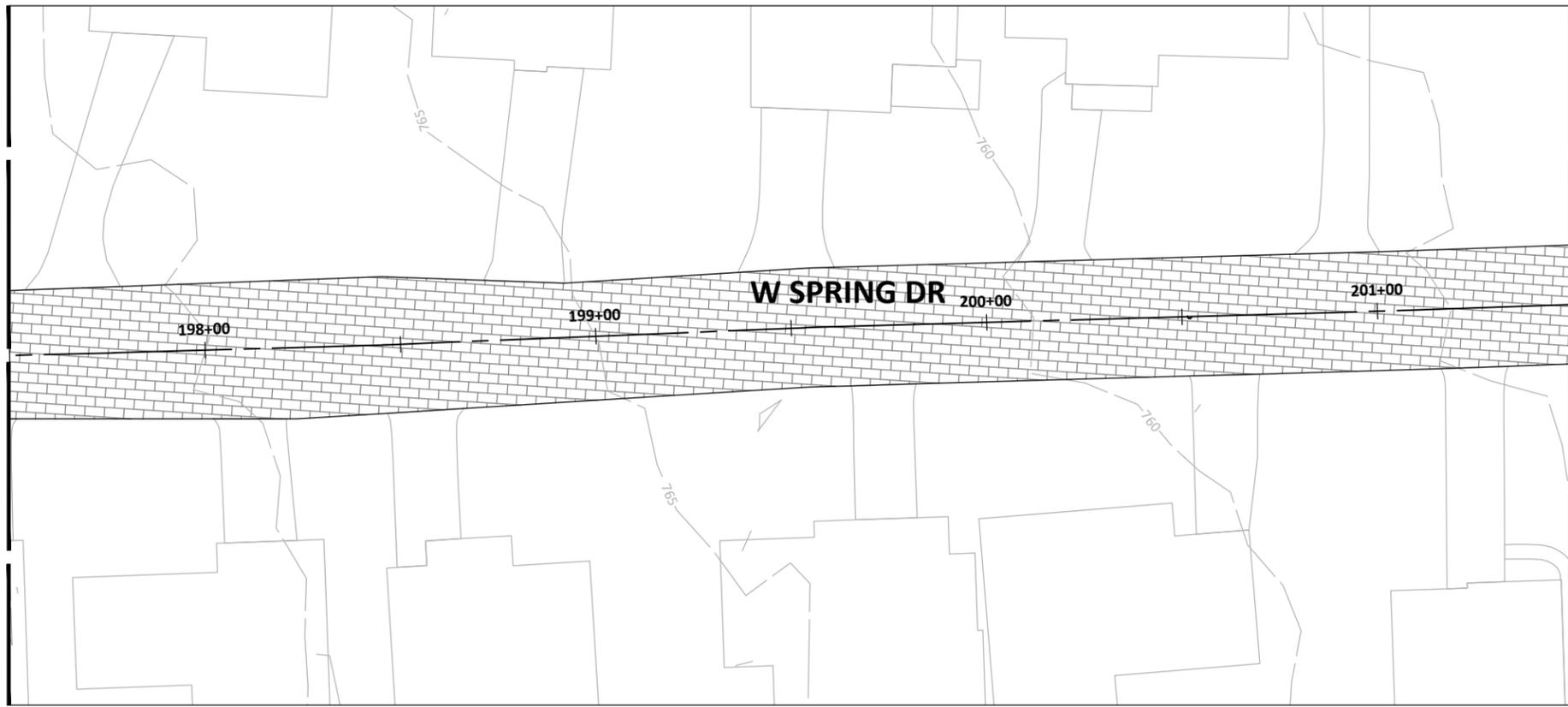
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PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE 06-10-2024	

WEST SPRING DR

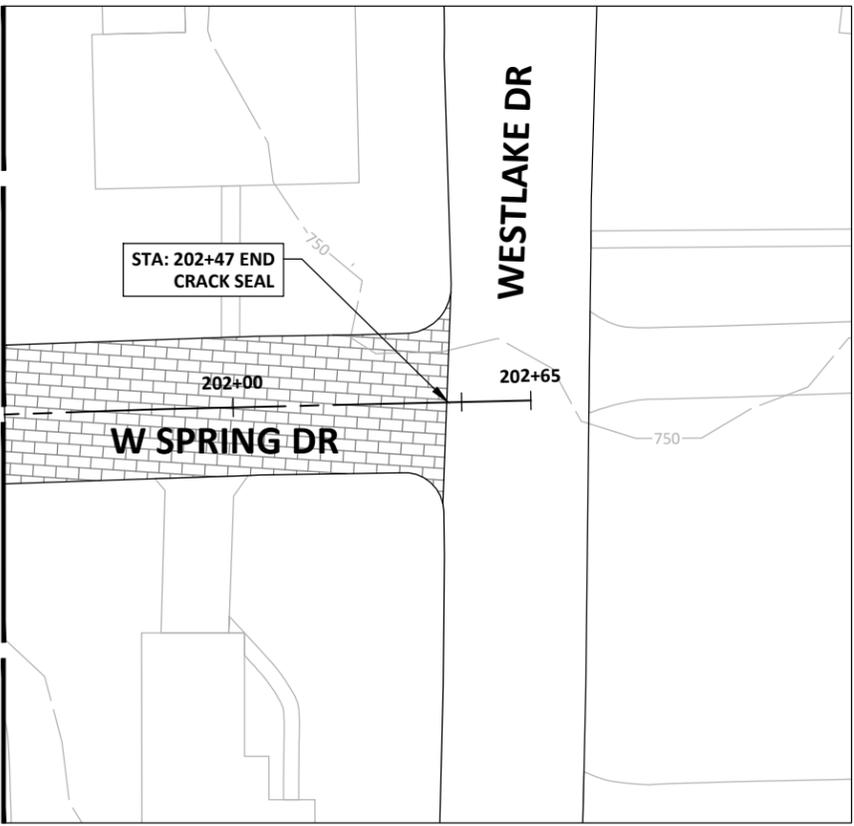
C25.1

MATCHLINE: STA. 197+50; SEE SHEET C25.0



MATCHLINE: STA. 201+50

MATCHLINE: STA. 201+50





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 Austin, Texas 78704
 512.330.1270

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
 TBPE Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

NO.	DATE	REVISION

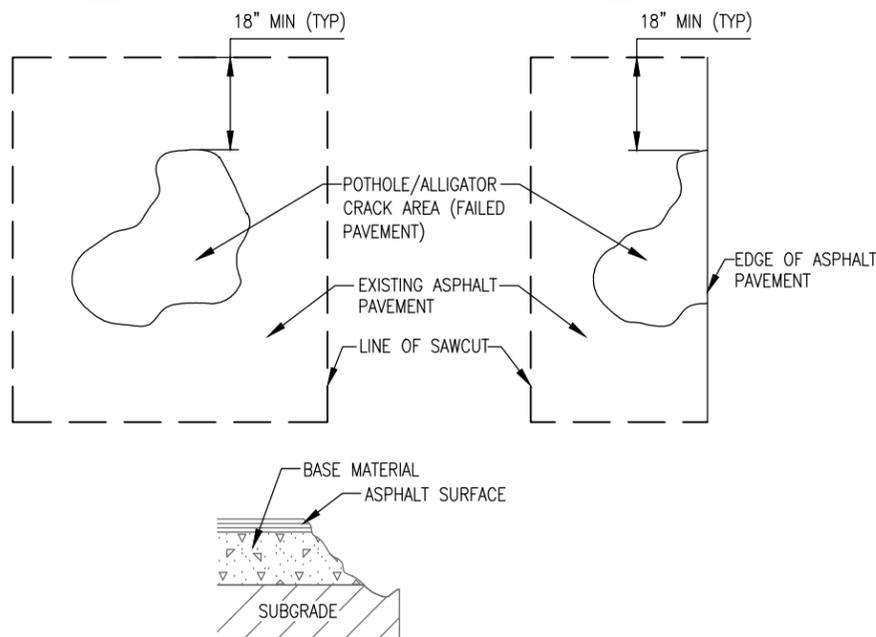
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DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024	

DETAILS

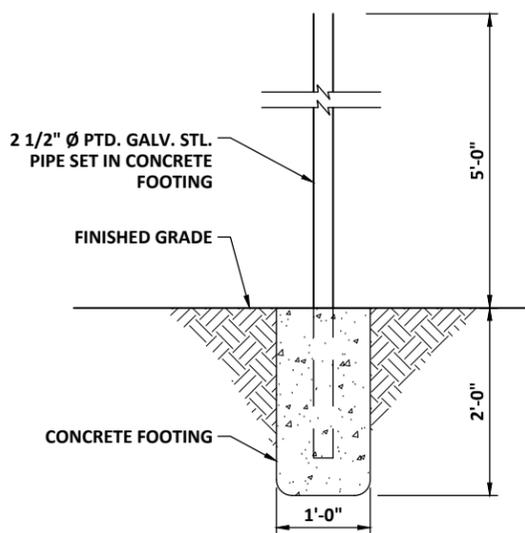
C26.0

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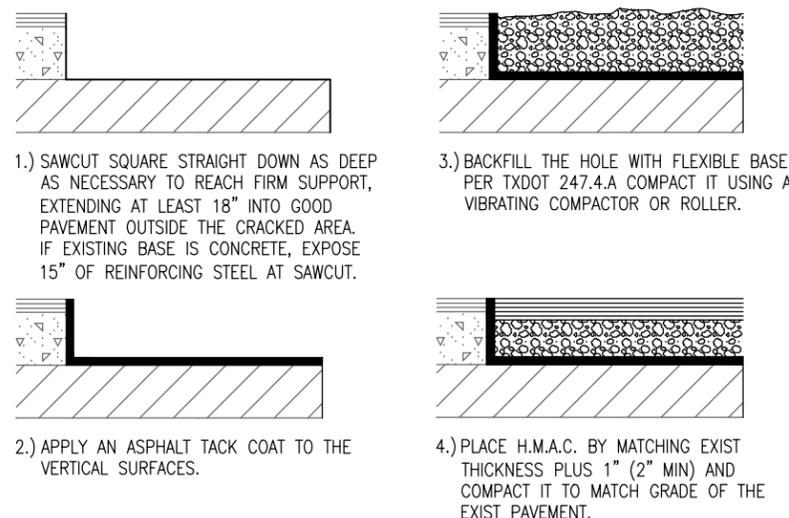
POTHOLE / ALLIGATOR CRACK



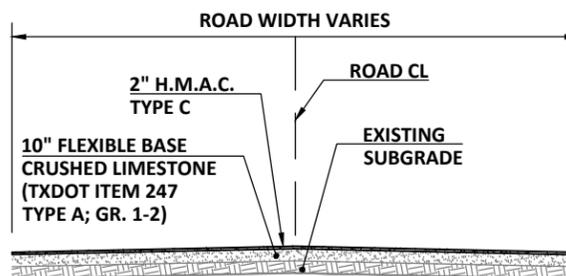
EDGE POTHOLE / CRACK



2 SPEED LIMIT SIGN BASE
 NOT TO SCALE

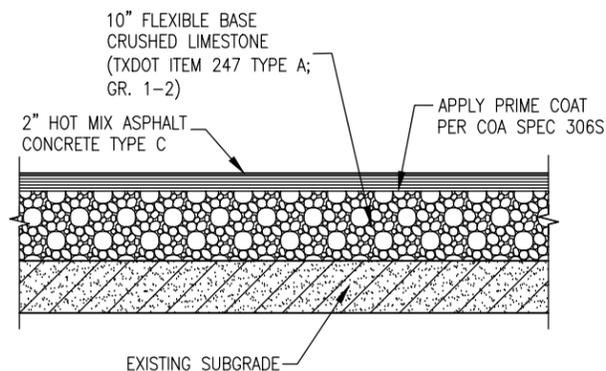


- 1.) SAWCUT SQUARE STRAIGHT DOWN AS DEEP AS NECESSARY TO REACH FIRM SUPPORT, EXTENDING AT LEAST 18" INTO GOOD PAVEMENT OUTSIDE THE CRACKED AREA. IF EXISTING BASE IS CONCRETE, EXPOSE 15" OF REINFORCING STEEL AT SAWCUT.
- 2.) APPLY AN ASPHALT TACK COAT TO THE VERTICAL SURFACES.
- 3.) BACKFILL THE HOLE WITH FLEXIBLE BASE PER TXDOT 247.4.A COMPACT IT USING A VIBRATING COMPACTOR OR ROLLER.
- 4.) PLACE H.M.A.C. BY MATCHING EXIST THICKNESS PLUS 1" (2" MIN) AND COMPACT IT TO MATCH GRADE OF THE EXIST PAVEMENT.



- NOTES:
 1. EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.

3 TYPICAL STREET SECTION
 NOT TO SCALE



1 2" H.M.A.C. PAVEMENT SPOT FULL DEPTH REPAIR
 NOT TO SCALE

Jun 11, 2024 - 11:28am X:\C02\23011\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\C02-23011-00-GN.dwg



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 401 S 1st St., Suite 600
 Austin, Texas 78704

512.330.1270

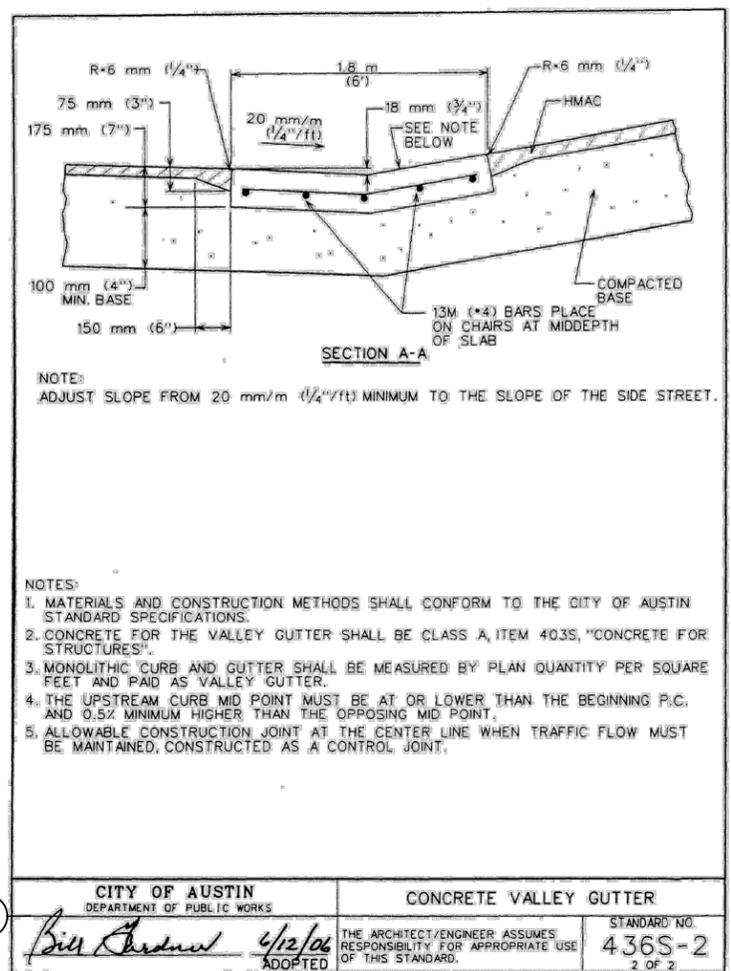
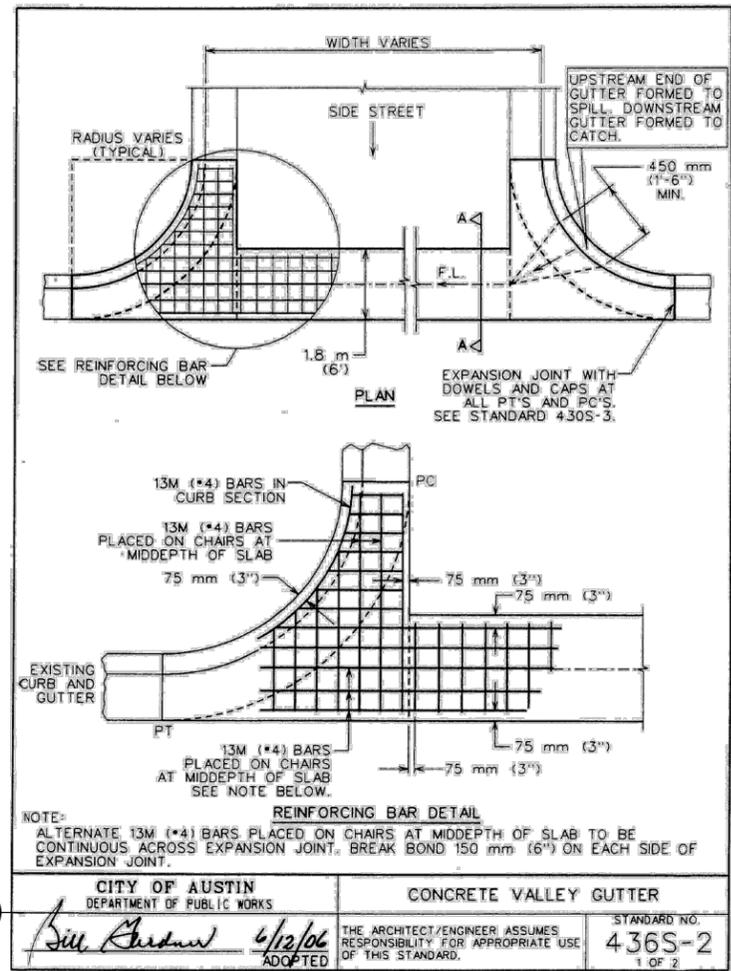
CITY OF WEST LAKE
 HILLS STREET REHAB
 & DRAINAGE
 IMPROVEMENTS

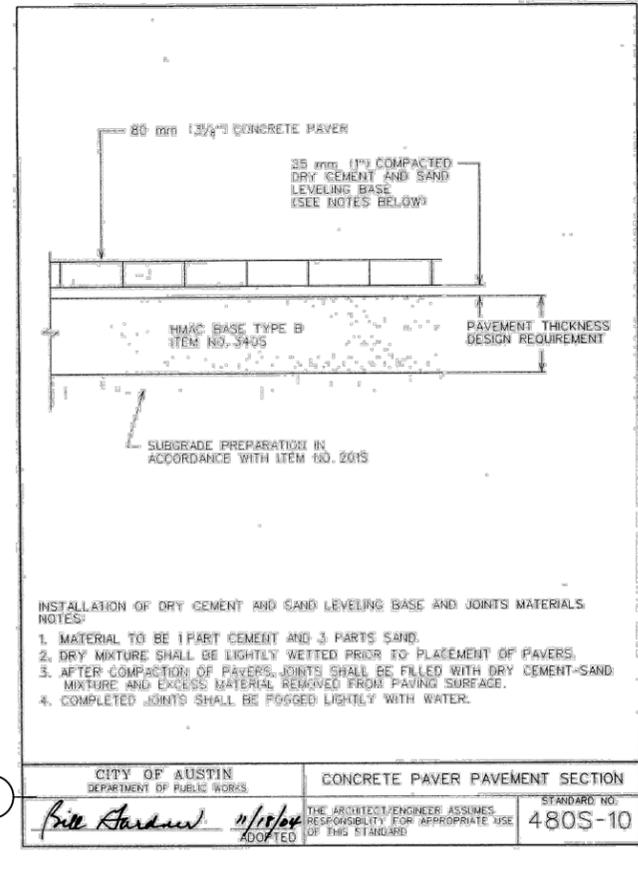
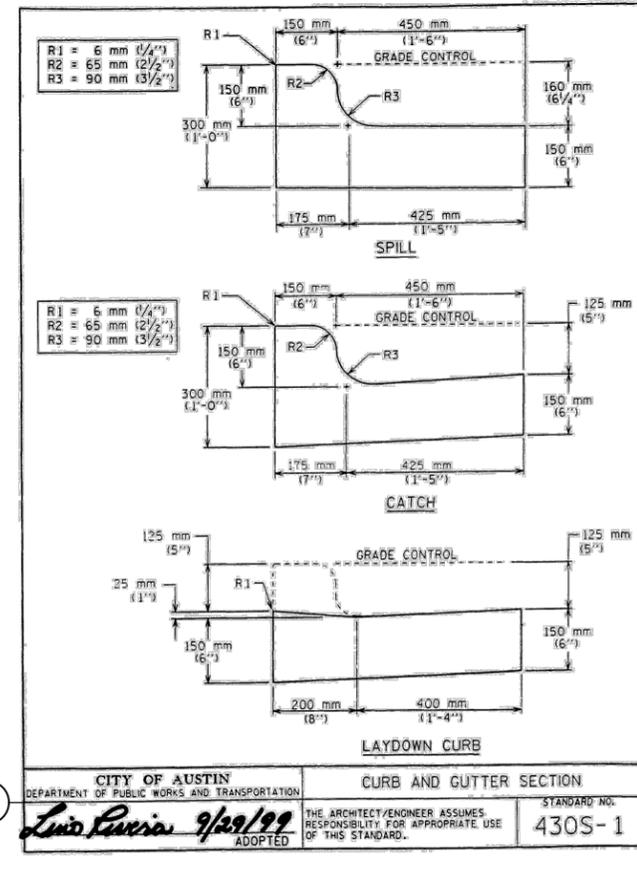
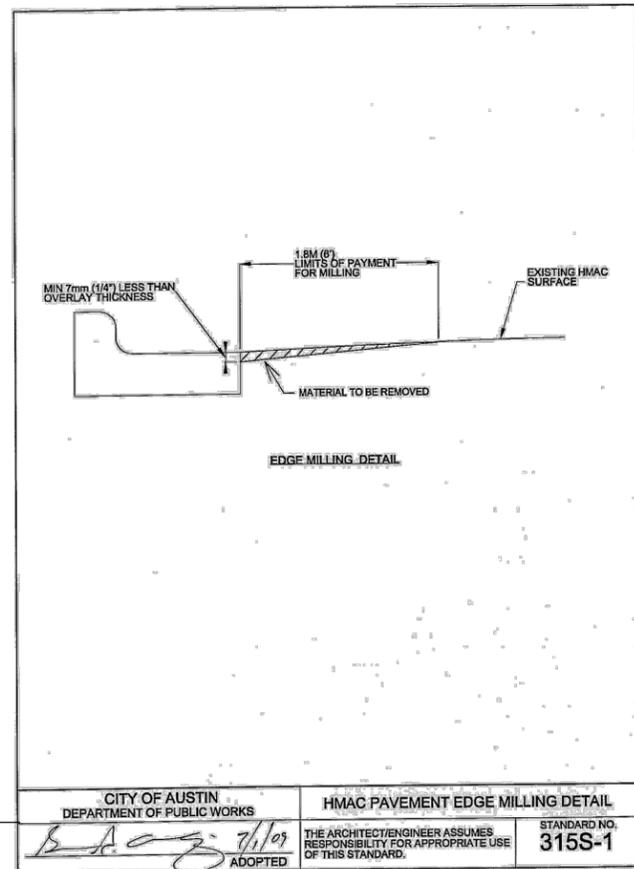
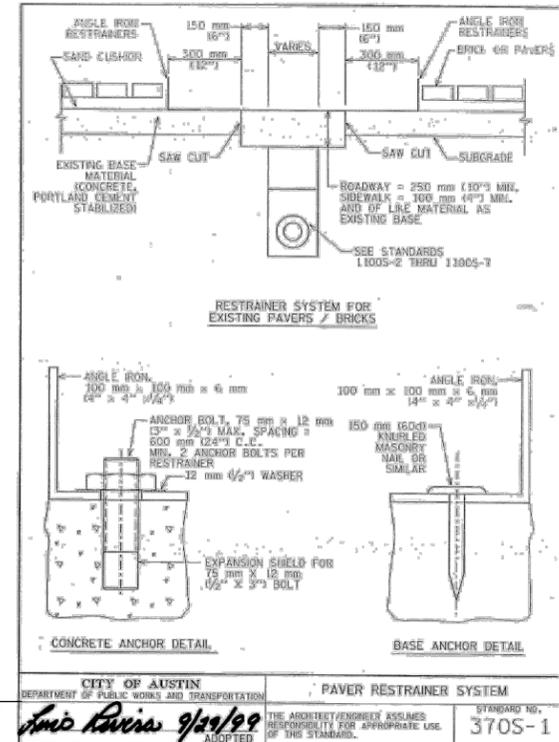
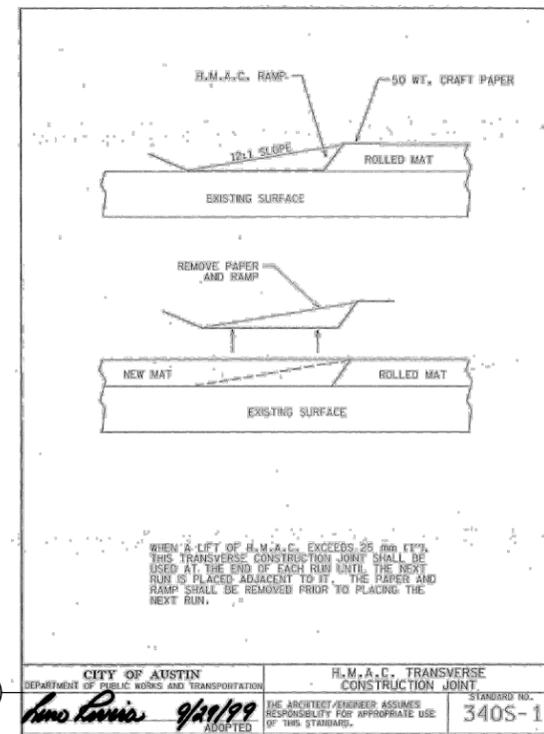
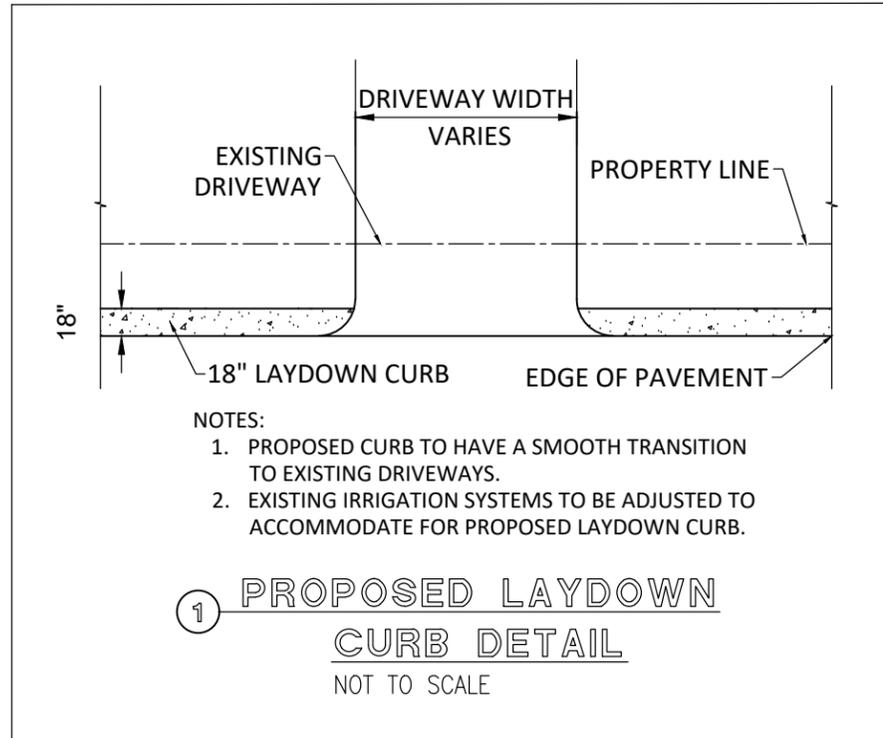
NO.	DATE	REVISION

PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE		DATE 06-10-2024

DETAILS

C26.1





CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

NO.	DATE	REVISION

PROJECT NO. C02-23011-00
DESIGNED BY ZS/ESM REVIEWED BY SST DRAWN BY AC
ORIGINAL ISSUE DATE 06-10-2024

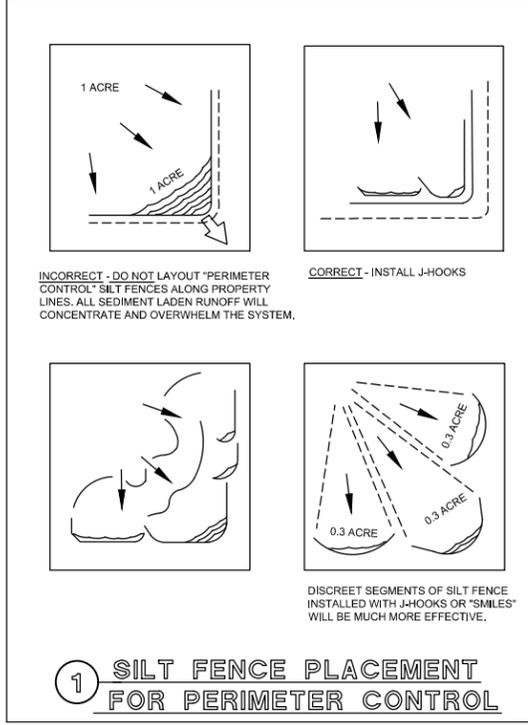
CITY OF WEST LAKE
HILLS STREET REHAB
& DRAINAGE
IMPROVEMENTS

NO.	DATE	REVISION

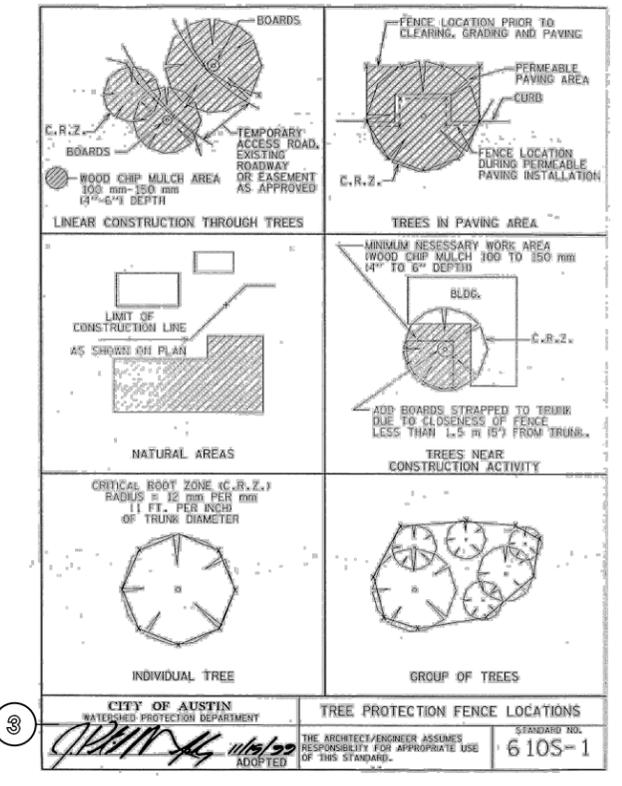
PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

EROSION CONTROL
DETAIL

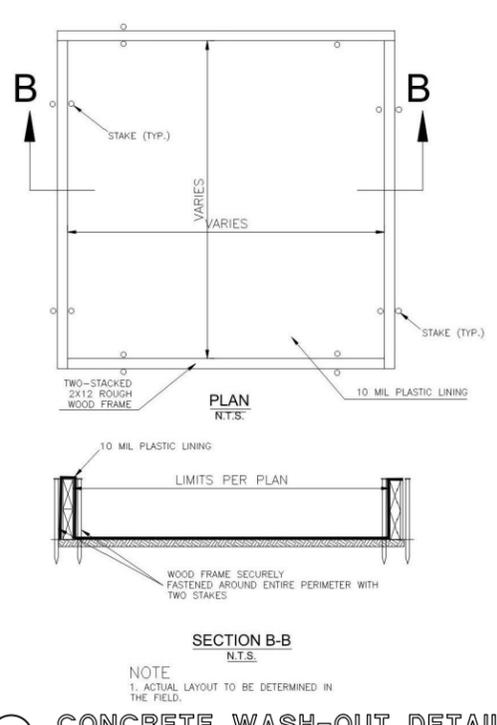
C26.3



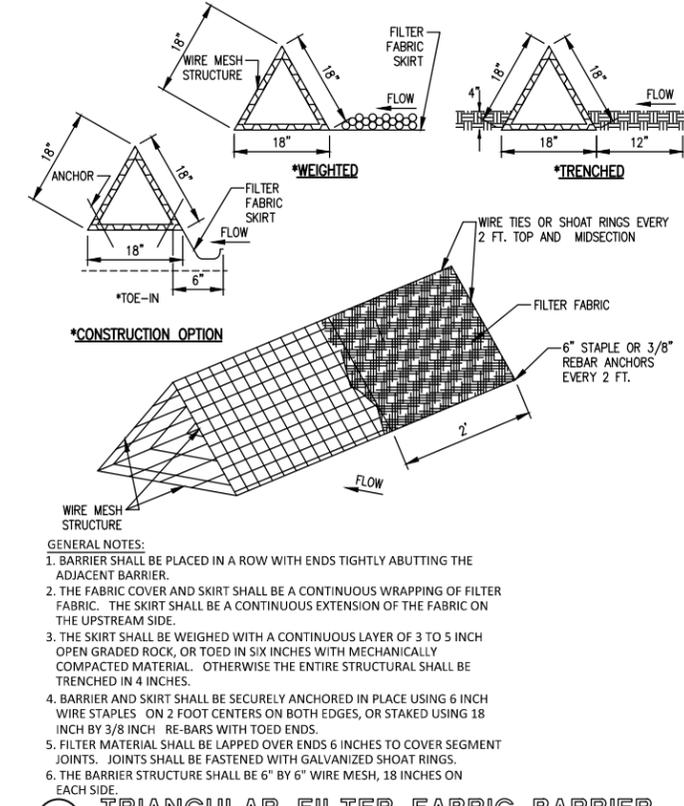
1 SILT FENCE PLACEMENT FOR PERIMETER CONTROL



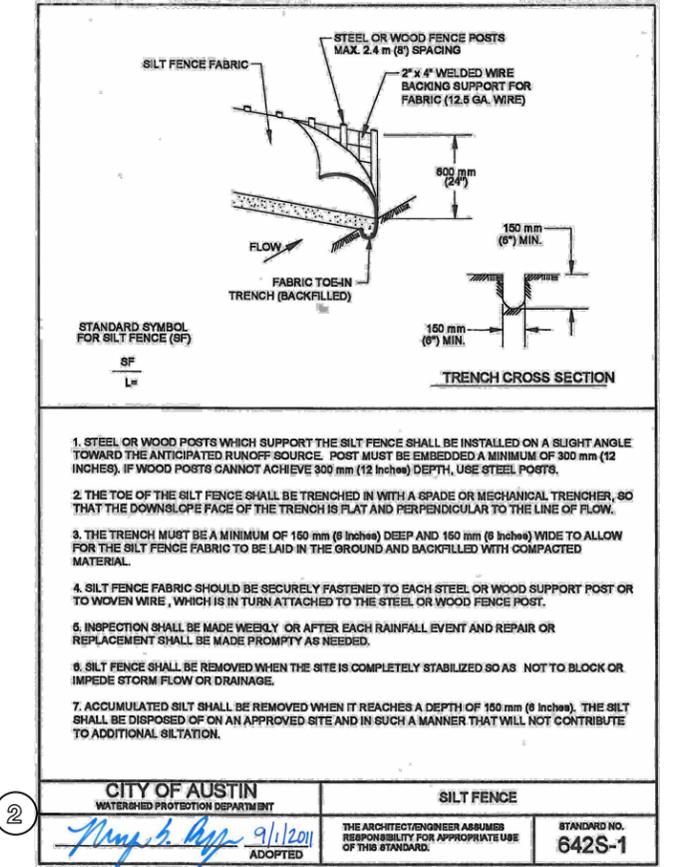
2 CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT TREE PROTECTION FENCE LOCATIONS STANDARD NO. 610S-1



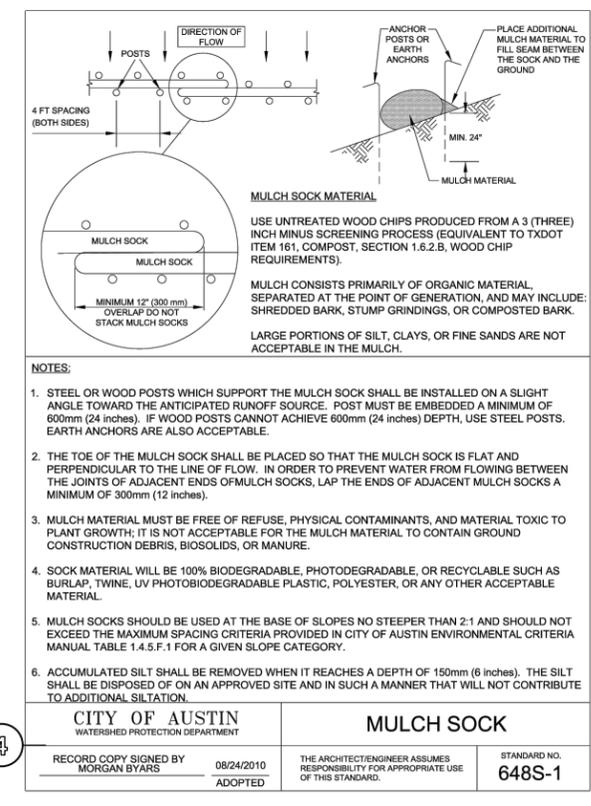
3 CONCRETE WASH-OUT DETAIL NOT TO SCALE



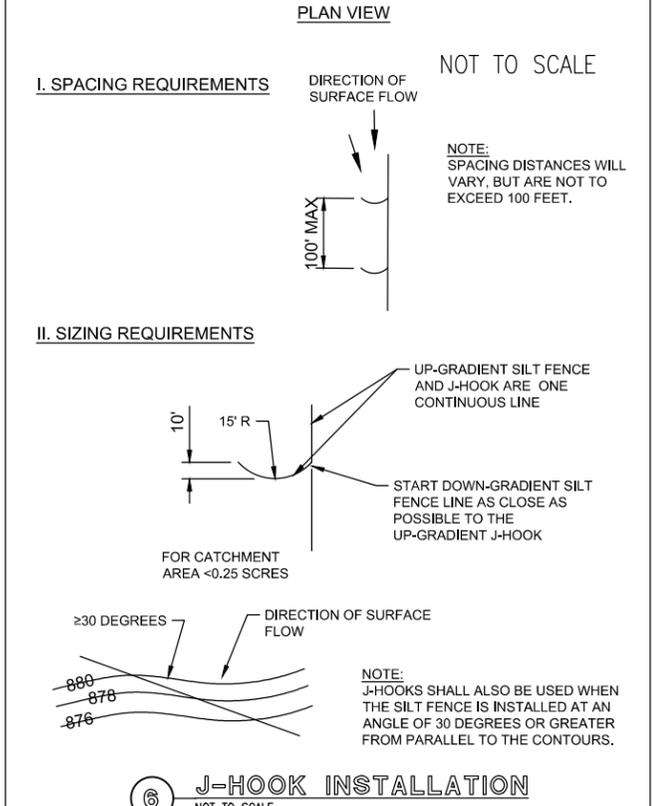
4 TRIANGULAR FILTER FABRIC BARRIER NOT TO SCALE



5 TRENCH CROSS SECTION CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT SILT FENCE STANDARD NO. 642S-1



6 MULCH SOCK CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT MULCH SOCK STANDARD NO. 648S-1



7 J-HOOK INSTALLATION NOT TO SCALE

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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

1 CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
Bill Anderson 3/13/06 ADOPTED
STANDARD NO. 804S-2
1 OF 8

2 CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
Bill Anderson 3/13/06 ADOPTED
STANDARD NO. 804S-2
2 OF 8

SPEED (kmph)	SPEED* (mph)	LENGTH (meters)	LENGTH (feet)
30	20	11	35
40	25	17	55
50	30	26	85
55	35	36	120
65	40	51	170
70	45	66	220
80	50	84	280
90	55	101	335
95	60	125	415
105	65	146	485

*POSTED SPEED

3 CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
Bill Anderson 3/13/06 ADOPTED
STANDARD NO. 804S-2
3 OF 8

4 CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
Bill Anderson 3/13/06 ADOPTED
STANDARD NO. 804S-2
4 OF 8

5 CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
Bill Anderson 3/13/06 ADOPTED
STANDARD NO. 804S-2
5 OF 8

6 CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS
Bill Anderson 3/13/06 ADOPTED
STANDARD NO. 804S-2
7 OF 8

NO.	DATE	REVISION

PROJECT NO. C02-23011-00
DESIGNED BY ZS/ESM REVIEWED BY SST DRAWN BY AC
ORIGINAL ISSUE DATE 06-10-2024

TRAFFIC CONTROL DETAIL
C26.4
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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

**Typical Transition Lengths and
Suggested Maximum Spacing of Devices**

Speed KMPH	Posted Speed MPH	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet)		Suggested Max. Device Spacing Meters (Feet)	Suggested Sign Spacing Meters (Feet)
			3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)		
50	30	L-WS 60	45 (150)	50 (165)	9 (30)	15-20 (60-75)
55	35		65 (205)	70 (225)	10 (35)	25-25 (70-90)
65	40	L-WS	80 (265)	90 (295)	12 (40)	25-30 (80-100)
70	45		135 (450)	150 (495)	13 (45)	25-30 (90-110)
80	50		150 (500)	165 (550)	15 (50)	30-35 (100-125)
90	55	L-WS	165 (550)	185 (605)	16 (55)	35-40 (110-140)
95	60		180 (600)	200 (660)	18 (60)	40-45 (120-150)
105	65		195 (650)	215 (715)	19 (65)	40-50 (130-165)
115	70		215 (700)	235 (770)	21 (70)	45-55 (140-175)

LEGEND

- Channelizing devices
- Trailer mounted flashing arrow board
- Flagger

TRAFFIC DETOUR NOTES:

- "STREET CLOSED" AND "STREET CLOSED TO THRU TRAFFIC" MAY BE USED IN PLACE OF "ROAD CLOSED" AND "ROAD CLOSED TO THRU TRAFFIC".
- THE USE OF A STREET SIGN NAME MOUNTED WITH THE M4-9 DETOUR SIGN IS REQUIRED. THE STREET NAME PLATE SHOULD BE PLACED ABOVE THE DETOUR SIGN. THE PLATE MAY HAVE EITHER A WHITE-ON-GREEN OR A BLACK-ON-ORANGE LEGEND.
- ADDITIONAL "DO NOT ENTER" SIGNS MAY BE DESIRABLE AT INTERSECTIONS WITH INTERVENING STREETS.
- A M4-9 DETOUR SIGN WITH AN ADVANCE TURN ARROW MAY BE USED IN ADVANCE OF A TURN. ON MULTI-LANE STREETS, SUCH SIGNS SHOULD BE USED.
- M4-9 DETOUR SIGNS MAY BE LOCATED ON THE FAR SIDE OF INTERSECTIONS.

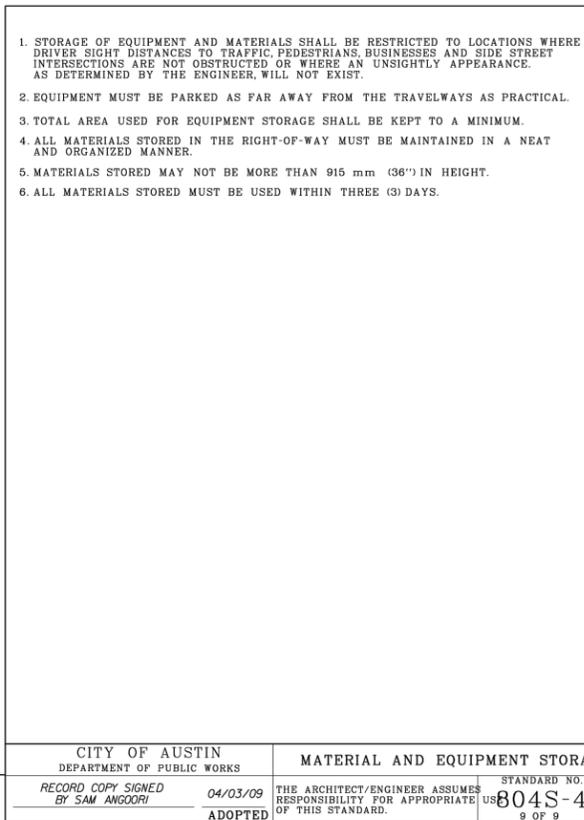
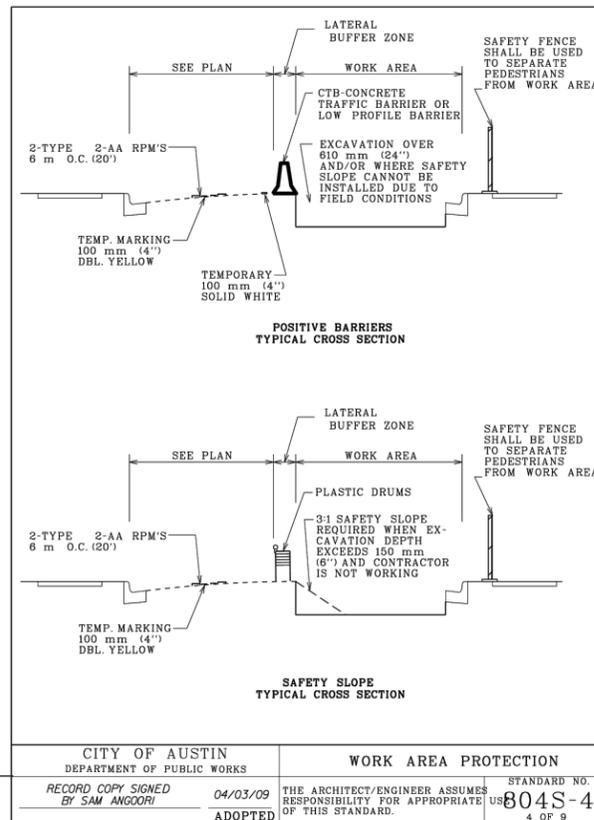
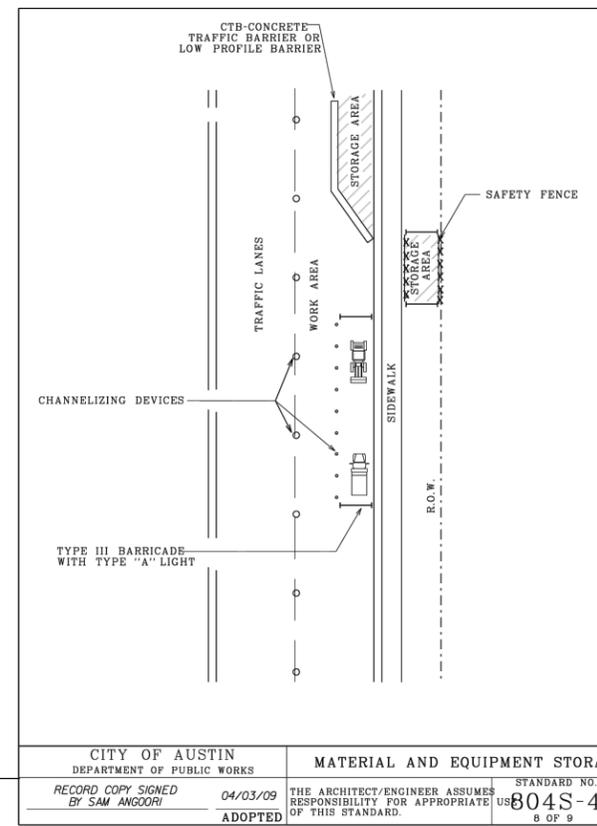
** TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

**CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS**

Bojo Anderson 7/13/06
ADOPTED

THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.

STANDARD NO.
804S-2
8 OF 8



NO.	DATE	REVISION

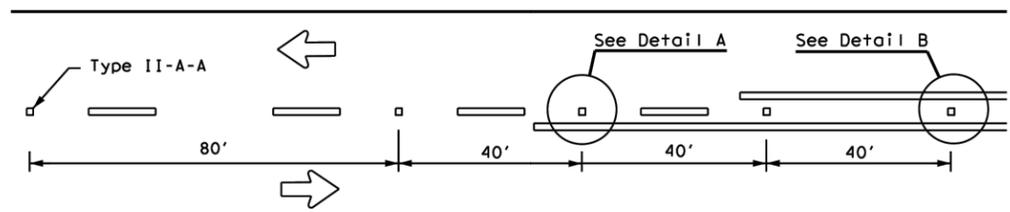
PROJECT NO.	C02-23011-00	
DESIGNED BY	REVIEWED BY	DRAWN BY
ZS/ESM	SST	AC
ORIGINAL ISSUE	DATE	
		06-10-2024

TRAFFIC CONTROL DETAIL

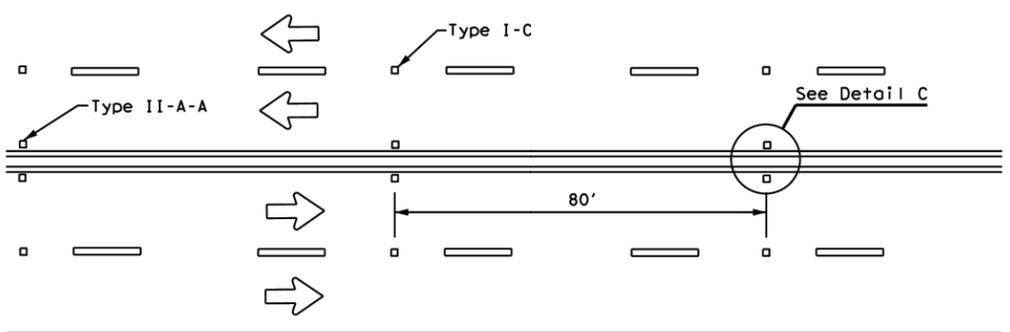
C26.5

REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE

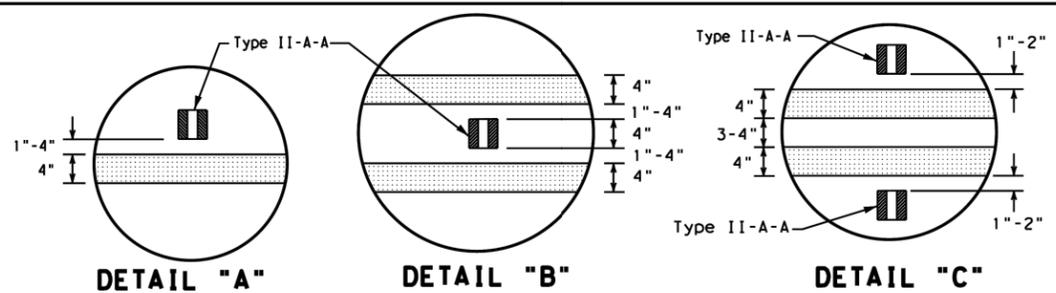
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CENTERLINE FOR ALL TWO LANE ROADWAYS



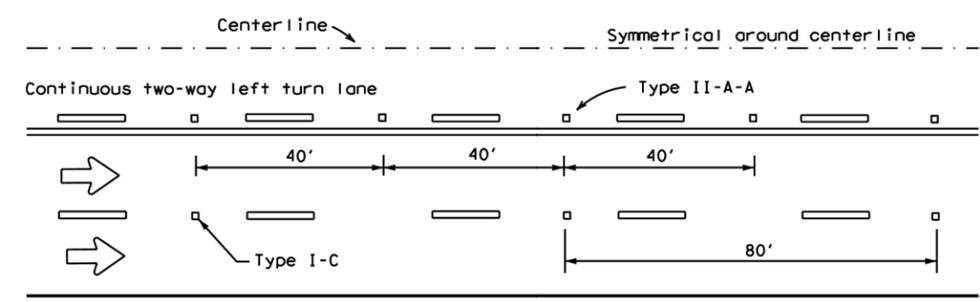
**CENTERLINE & LANE LINES
FOR FOUR LANE TWO-WAY HIGHWAYS**



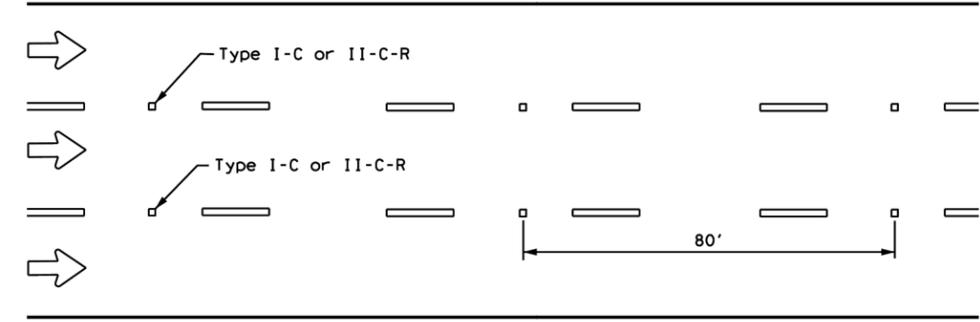
DETAIL "A"

DETAIL "B"

DETAIL "C"

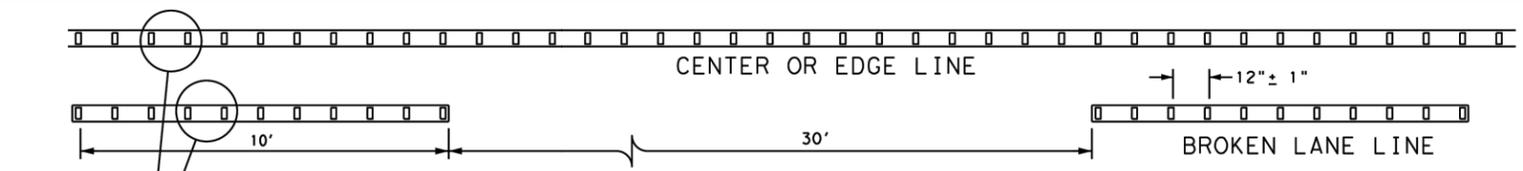


CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



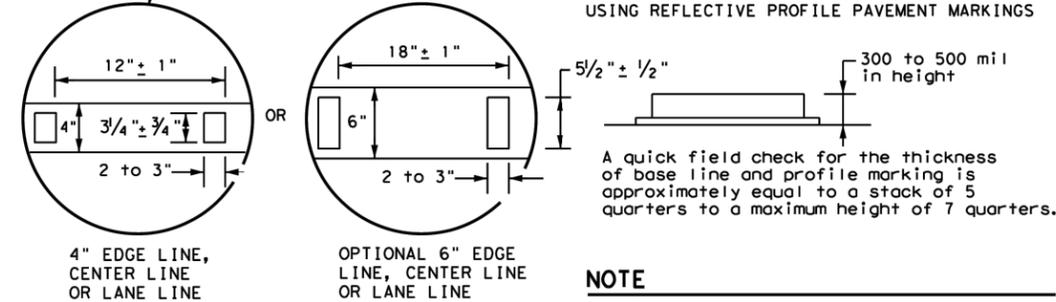
LANE LINES FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)

Raised pavement markers Type II-C-R shall have clear face toward normal traffic and red face toward wrong-way traffic.



**REFLECTORIZED PROFILE
PATTERN DETAIL**

USING REFLECTIVE PROFILE PAVEMENT MARKINGS



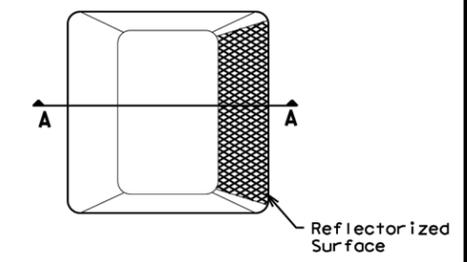
NOTE
Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.

GENERAL NOTES

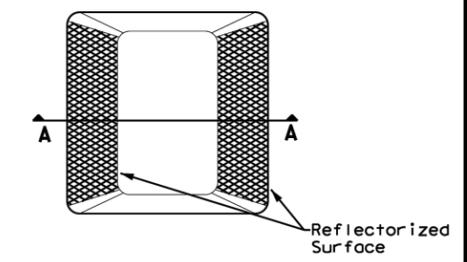
1. All raised pavement markers placed in broken lines shall be placed in line with and midway between the stripes.
2. On concrete pavements the raised pavement markers should be placed to one side of the longitudinal joints.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

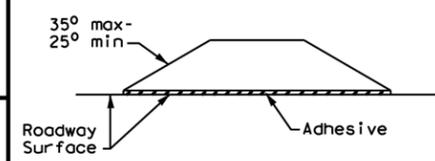
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



Type I (Top View)



Type II (Top View)



SECTION A

RAISED PAVEMENT MARKERS

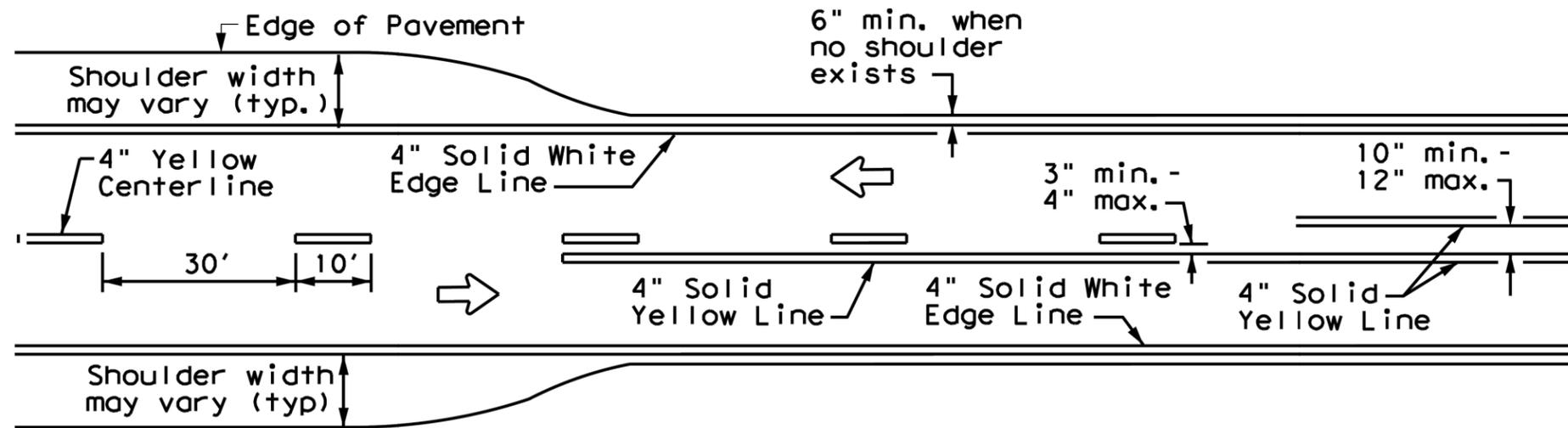


**POSITION GUIDANCE USING
RAISED MARKERS
REFLECTORIZED PROFILE
MARKINGS
PM(2) - 20**

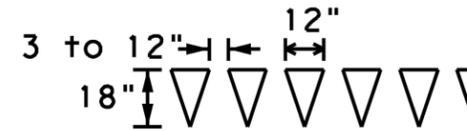
FILE: pm2-20.dgn	DN:	CK:	DW:	CK:
© TxDOT April 1977	CONT	SECT	JOB	HIGHWAY
4-92 2-10	REVISIONS			
5-00 2-12	DIST	COUNTY	SHEET NO.	
8-00 6-20				

C26.6

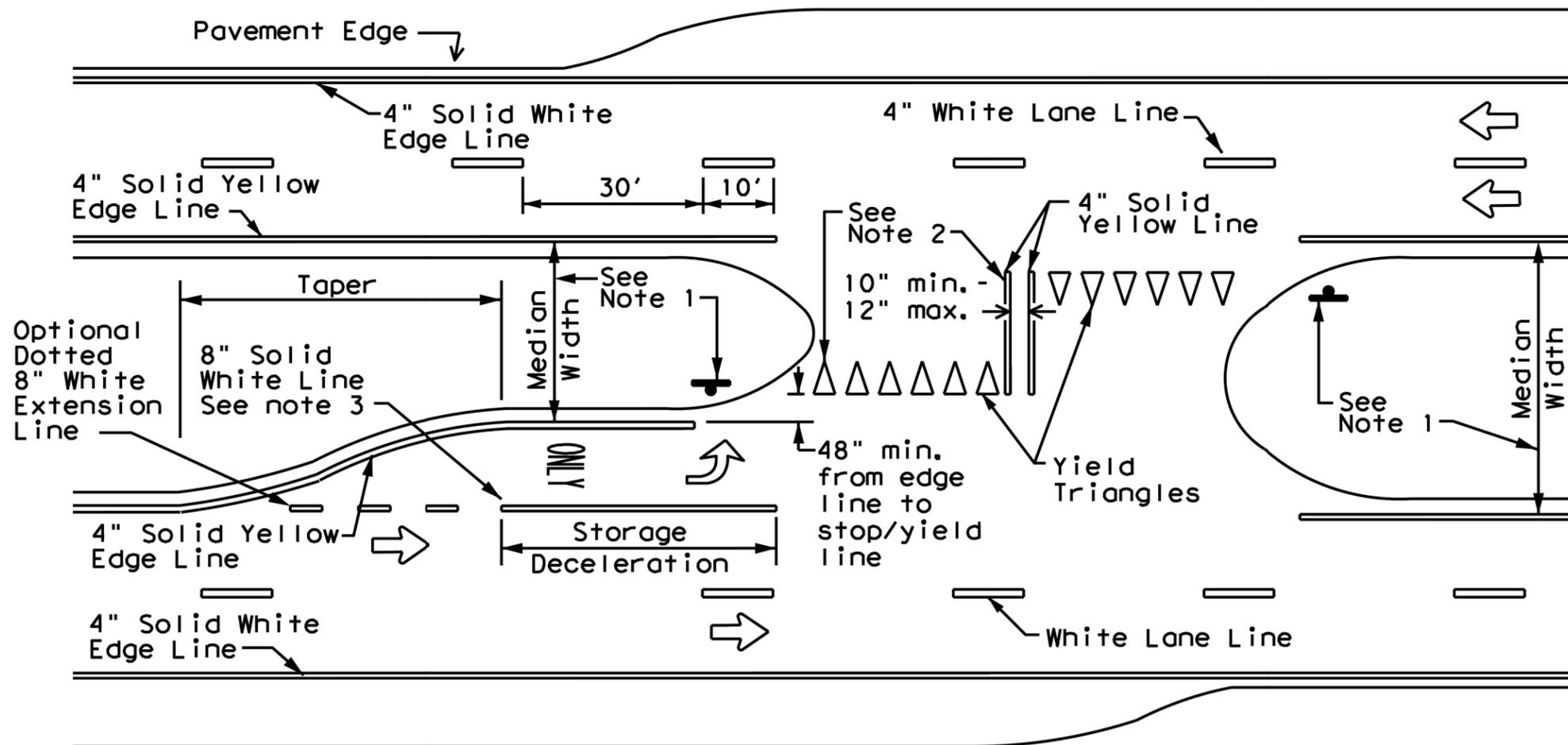
DISCLAIMER:
The use of this standard
kind is made by TxDOT
of this standard to



TWO LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDER



For posted speed on road
being marked equal to
less than 40 MPH.



NOTES

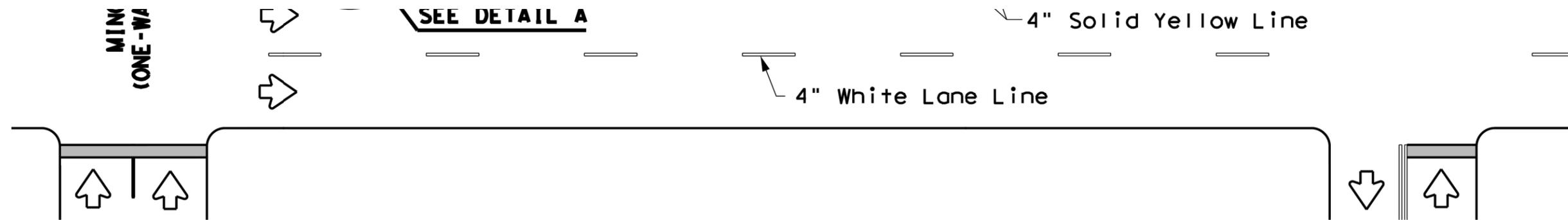
1. Where divided highway at the median openings shall be... Each median opening measurement for... be the controlling... Yield signs are optional as...
2. Install median stop bars/yield centerline can be with stop signs yield signs.
3. Length of turn storage lengths directed by the

DATE:
FILE:

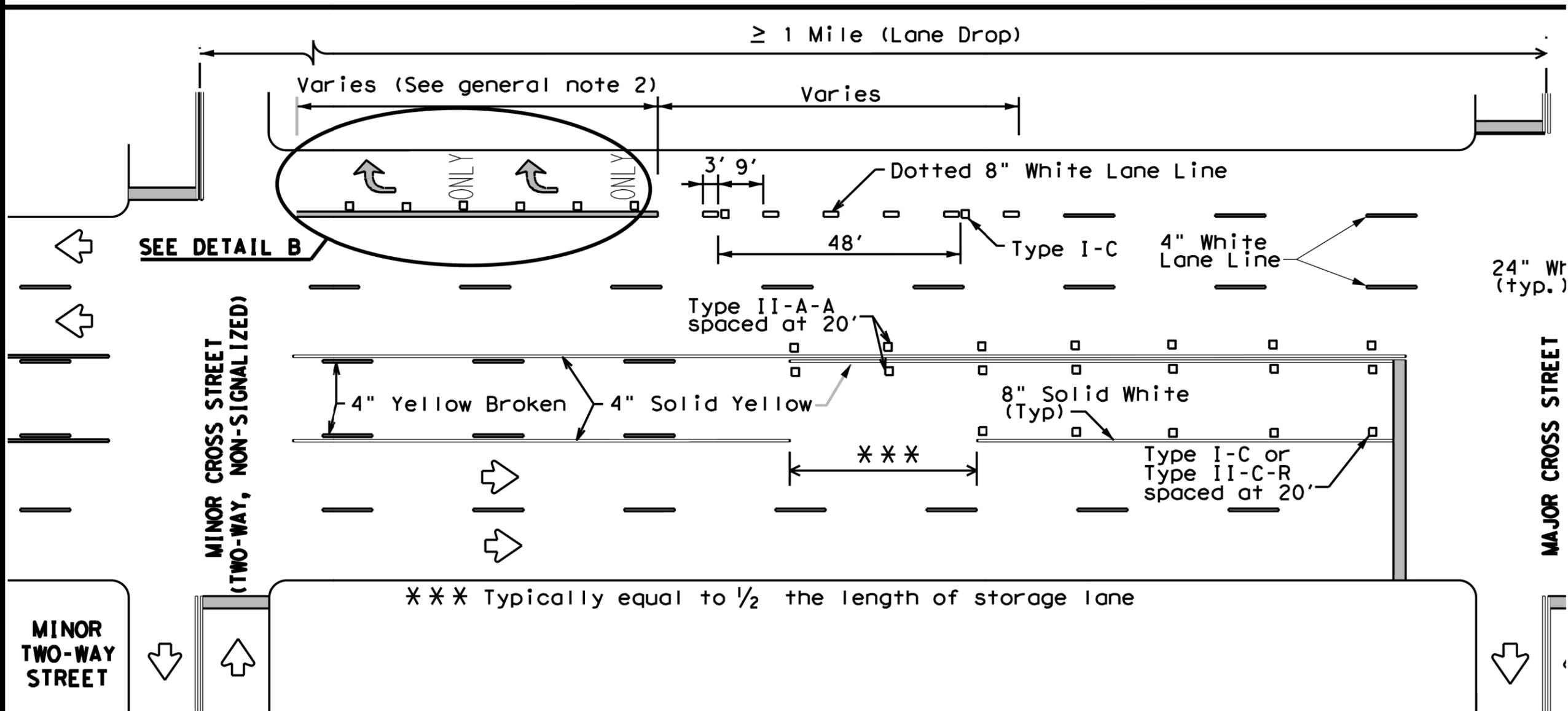
FOUR LANE DIVIDED ROADWAY CROSSOVERS

C26.7

DISCLAIMER:
The use of
kind is made b;
of this standa



TYPICAL TWLTL AT ONE-WAY STREET AND RIGHT TURN AUXILIARY LANE

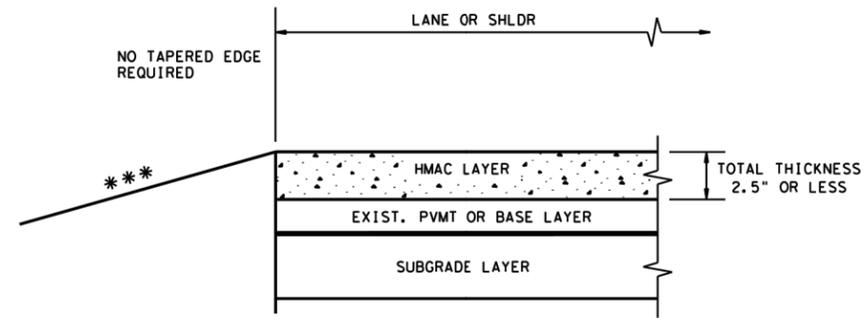


TYPICAL TWLTL AT TWO-WAY CROSS STREET AND RIGHT TURN LANE DROP

DATE:
FILE:

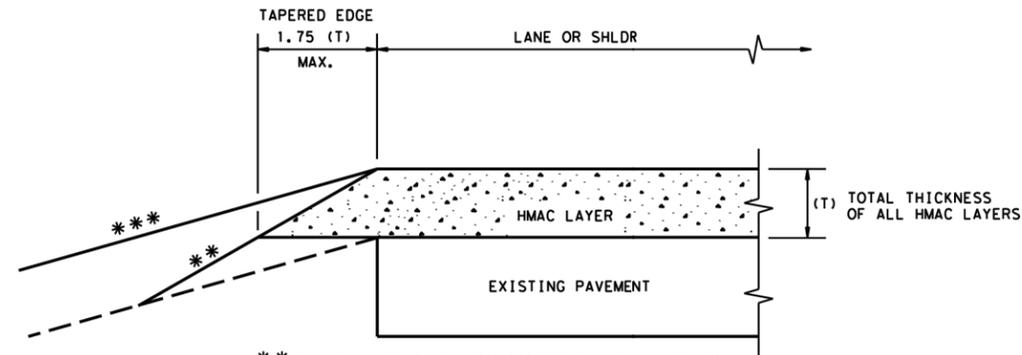
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DATE:
FILE:



*** SEE TYPICAL SECTION FOR ROADSIDE DETAILS

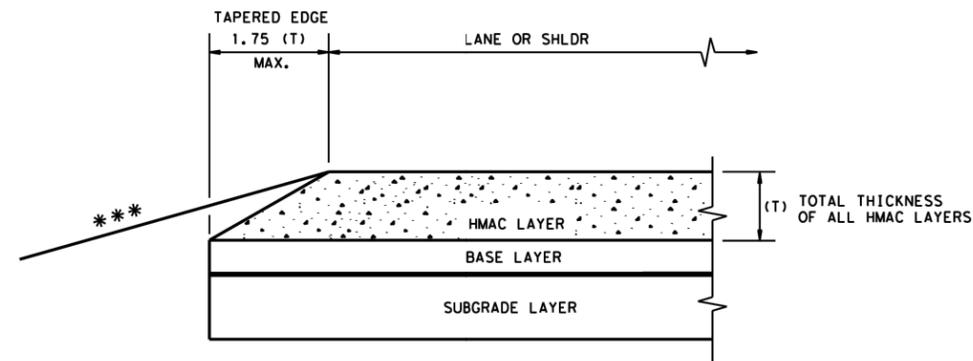
CONDITION - 1
THIN HMAC SURFACES OR HMAC OVERLAY
WITH THICKNESS OF 2.5" OR LESS



** EXISTING ROADSIDE EMBANKMENT TO BE GRADED TO PRODUCE A SMOOTH LEVEL SURFACE FOR PLACEMENT OF TAPERED EDGE. THIS WORK IS SUBSIDIARY TO THE VARIOUS BID ITEMS.

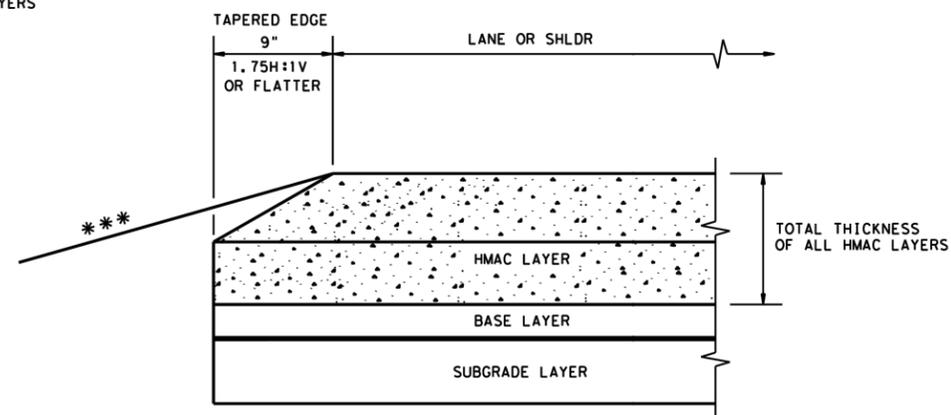
*** SEE TYPICAL SECTION FOR ROADSIDE DETAILS

CONDITION - 2
OVERLAY OF EXISTING PAVEMENT
HMAC THICKNESS 2.5" TO 5"



*** SEE TYPICAL SECTION FOR ROADSIDE DETAILS

CONDITION - 3
NEW OR RECONSTRUCTED PAVEMENT
HMAC THICKNESS 2.5" TO 5"



*** SEE TYPICAL SECTION FOR ROADSIDE DETAILS

CONDITION - 4
NEW OR RECONSTRUCTED PAVEMENT
HMAC THICKNESS 5" OR GREATER

GENERAL NOTES

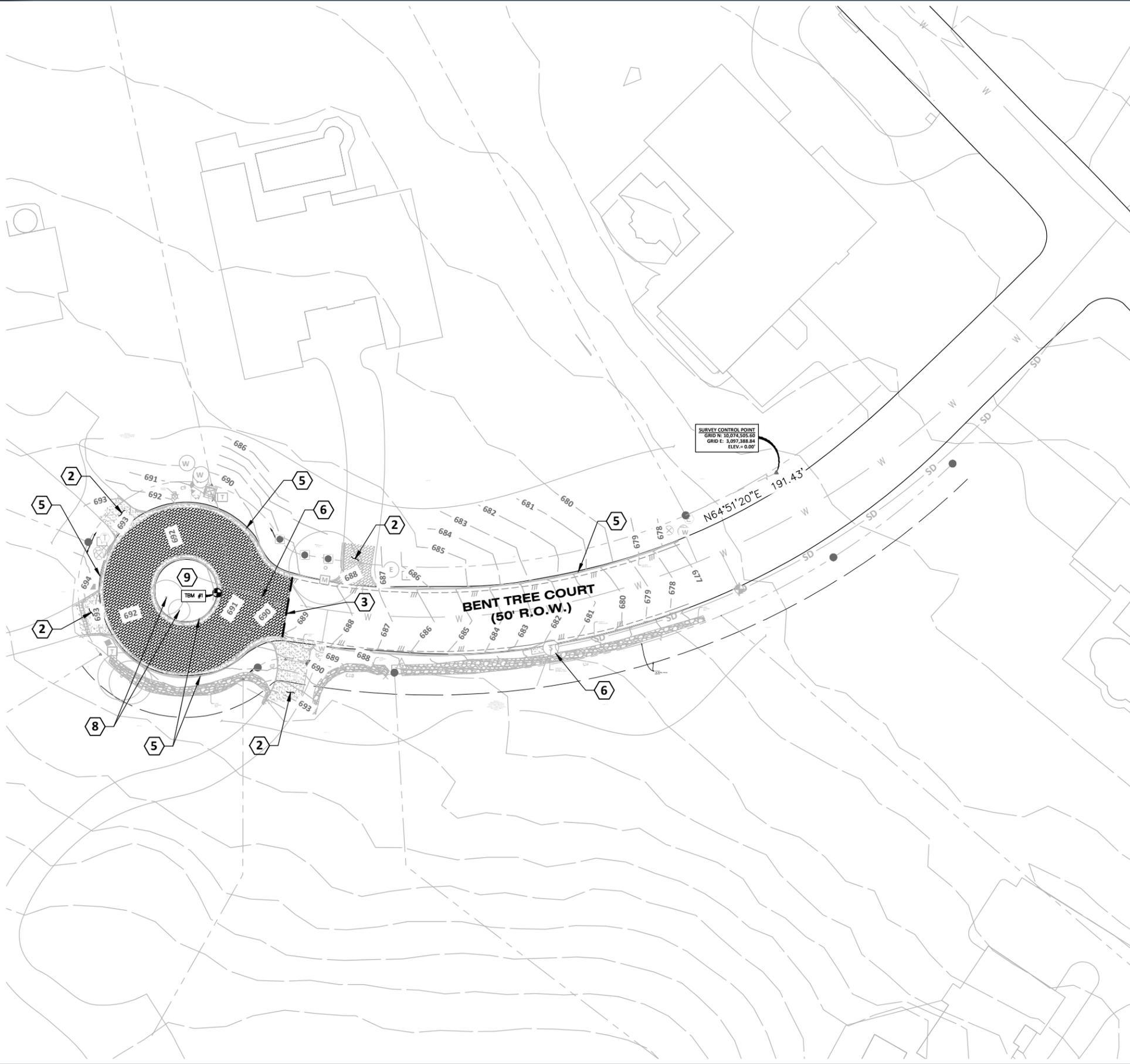
1. UNLESS OTHERWISE SHOWN IN THE PLANS, A VERTICAL EDGE IS PERMISSIBLE FOR HMAC PLACED GREATER THAN 5" BELOW THE EDGE OF PAVEMENT AND FOR THICKNESS OF HMAC LESS THAN 2.5".
2. FOR FURTHER INFORMATION REGARDING THE ROADSIDE AND PAVEMENT DETAILS, SEE TYPICAL SECTIONS.
3. PAYMENT FOR TAPERED EDGE WILL BE IN ACCORDANCE WITH APPLICABLE ITEMS IN THE CONTRACT.
4. THE SLOPE OF THE TAPERED EDGE SHALL BE 1.75H:1V OR FLATTER.
5. THE TAPERED EDGE SHALL BE PRODUCED BY USE OF A SCREED ATTACHMENT CAPABLE OF PRODUCING A SMOOTH COMPACTED SURFACE. ADDITIONAL COMPACTING EFFORT BEHIND THE SCREED IS NOT REQUIRED.

(NOT TO SCALE)

C26.9

		Design Division Standard	
TAPERED EDGE DETAILS HMAC PAVEMENT			
TE (HMAC) - 11			
FILE: tehmac11.dgn	DN: TxDOT	CK: RL	DW: KB
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REVISIONS			
DIST	COUNTY	SHEET NO.	

Jun 11, 2024 - 11:29am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\BENT TREE CT\C02-23011-00-DRNG - BENT TREE - DM.dwg

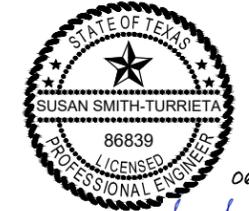


Walter P. Moore and Associates, Inc.
 401 S 1st St., Suite 600
 Austin, Texas 78704
 512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		⊙
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	x	x
Contour	-90	-90
Easement	---	---
Slope		1%
Top of Pavement	*TP@L.SPT	TP 42.25
Top of Wall	*TW@L.SPT	TW 42.25
Finished Grade	*FG@L.SPT	FG 42.25
Top of Grate	*TG@L.SPT	TG 42.25
Flow Line		FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign		---
TYPE III BARRICADE		---
DIRECTION OF TRAFFIC FLOW		---
CHANNELIZING DEVICE		---

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
 TBPELS Firm Registration No. 1856



HATCH LEGEND

REMOVE EXISTING PAVERS AND FLEXBASE

SHEET NOTES

- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.

KEY NOTES

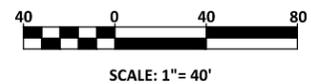
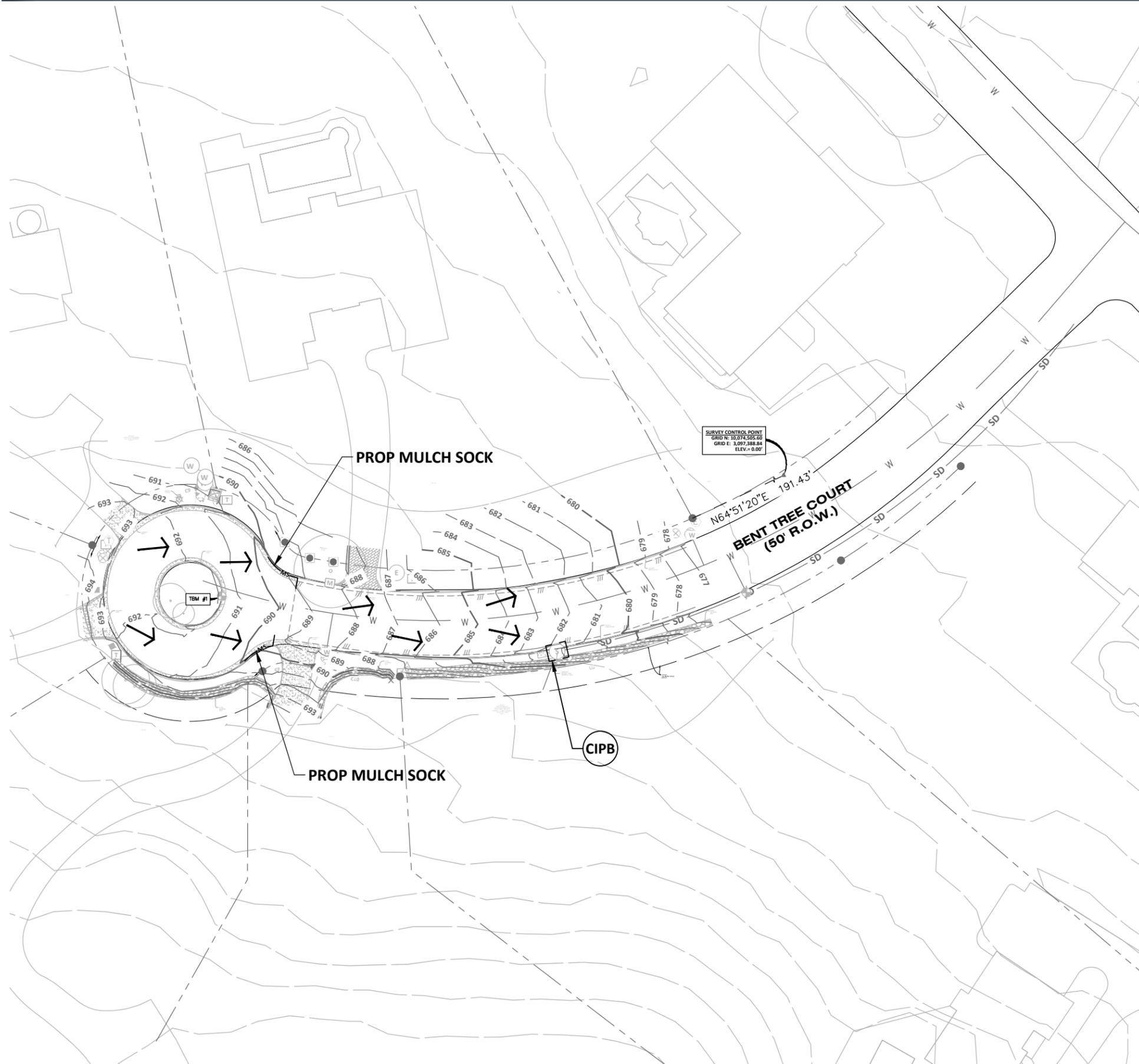
- EXISTING CURB TO BE DEMOLISHED
- PROTECT IN PLACE EXISTING DRIVEWAY
- FULL-DEPTH SAWCUT
- CONTRACTOR TO PROTECT EXISTING PAVEMENT AND TO REPLACE DAMAGED PAVEMENT TO ORIGINAL CONDITIONS
- PROTECT IN PLACE EXISTING CURB AND GUTTER
- PROTECT IN PLACE EXISTING UTILITY
- CAP AND PLUG EXISTING UTILITY
- PROTECT IN PLACE EXISTING TREE
- PROTECT IN PLACE EXISTING LANDSCAPE ISLAND

NO.	DATE	REVISION

PROJECT NO.		
C02-23011-00		
DESIGNED BY	REVIEWED BY	DRAWN BY
ZS/ESM	SST	AC
ORIGINAL ISSUE	DATE	DATE
		06-10-2024

BENT TREE CT - DEMOLITION PLAN

Jun 11, 2024 - 11:30am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\BENT TREE CT\02-23011-00-DRNG - BENT TREE - ECS.dwg



Walter P. Moore and Associates, Inc.
 401 S 1st St., Suite 600
 Austin, Texas 78704
 512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		CI
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement	---	---
Slope		1%
Top of Pavement	*TP(1.0)	TP 42.25
Top of Wall	*TW(1.0)	TW 42.25
Finished Grade	*FG(1.0)	FG 42.25
Top of Grate	*TG(1.0)	TG 42.25
Flow Line		FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain		
Sawcut		
Proposed Swale		
Drum		
Sign		
TYPE III BARRICADE		
DIRECTION OF TRAFFIC FLOW		
CHANNELIZING DEVICE		

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
 TBPELS Firm Registration No. 1856



EROSION CONTROL LEGEND

- CIPB CURB INLET PROTECTION BARRIER
- RFB REINFORCED FILTER FABRIC BARRIER
- SC STABILIZED CONSTRUCTION EXIT
- MS MULCH SOCK
- TFD TRIANGULAR FILTER DIKE
- SF SILT FENCE

NOTES:

- ALL AFFECTED INLETS SHALL BE PROTECTED BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- SEDIMENT AND EROSION CONTROLS INCLUDING NON-STORMWATER DISCHARGES SHALL BE AS PER THE SPECIFICATIONS.

SHEET NOTES

- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.

EROSION CONTROL NOTES

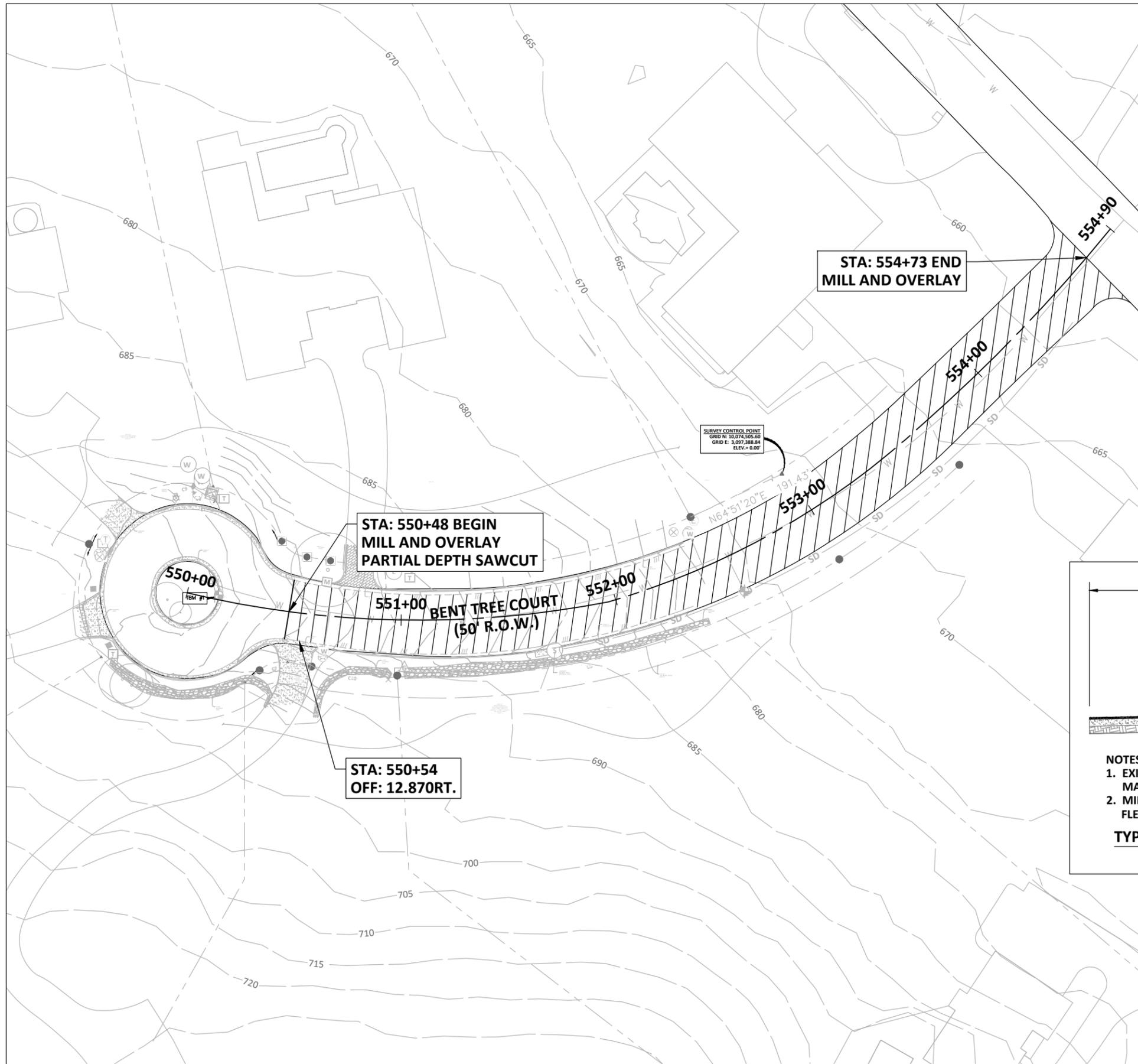
- THIS PROJECT IS SUBJECT TO ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO EXECUTE A NOTICE OF INTENT AND IMPLEMENT THE POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS AND COMPLY WITH ALL REPORTING AND INSPECTION REQUIREMENTS SET FORTH IN THE NPDES REGULATIONS.
- REINFORCED SILT FENCES AND INLET PROTECTION TO BE PROVIDED DURING CONSTRUCTION OF THIS PROJECT, AND REMOVED UPON CONSTRUCTION COMPLETION (SEE SPECS. AND DETAILS).
- CONTRACTOR TO PROVIDE STABILIZED CONSTRUCTION EXIT PER DETAIL AT ALL POINTS OF EGRESS DURING CONSTRUCTION.

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

BENT TREE CT - EROSION CONTROL PLAN

Jun 11, 2024 - 11:30am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\BENT TREE CT\C02-23011-00-DRNG - BENT TREE - PAV.dwg

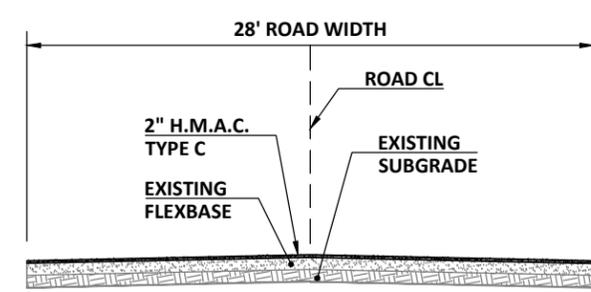


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Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		⊙
Storm Sewer/MH	STM	⊙
Large Diam Storm Sewer/MH	STM	⊙
Curb Inlet/Grate Inlet	STM	⊙
Sanitary Sewer/MH/Cleanout	WW	⊙
Large Diam Sanitary Sewer/MH	WW	⊙
Water Line/Fire Hydrant/Valve	W	⊙
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	x	x
Contour	-90	-90
Easement	---	---
Slope		1%
Top of Pavement	*TPAL.07	TP 42.25
Top of Wall	*TWAL.07	TW 42.25
Finished Grade	*FGAL.07	FG 42.25
Top of Grate	*TGPL.07	TG 42.25
Flow Line	*FLAL.07	FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign		
TYPE III BARRICADE		
DIRECTION OF TRAFFIC FLOW		
CHANNELIZING DEVICE		

HATCH LEGEND
 2" MILL AND OVERLAY

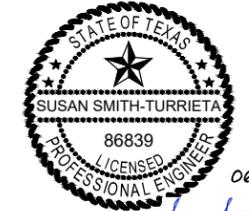


- NOTES:**
- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
 - MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - BENT TREE CT
NTS

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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TBPELS Firm Registration No. 1856

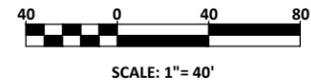
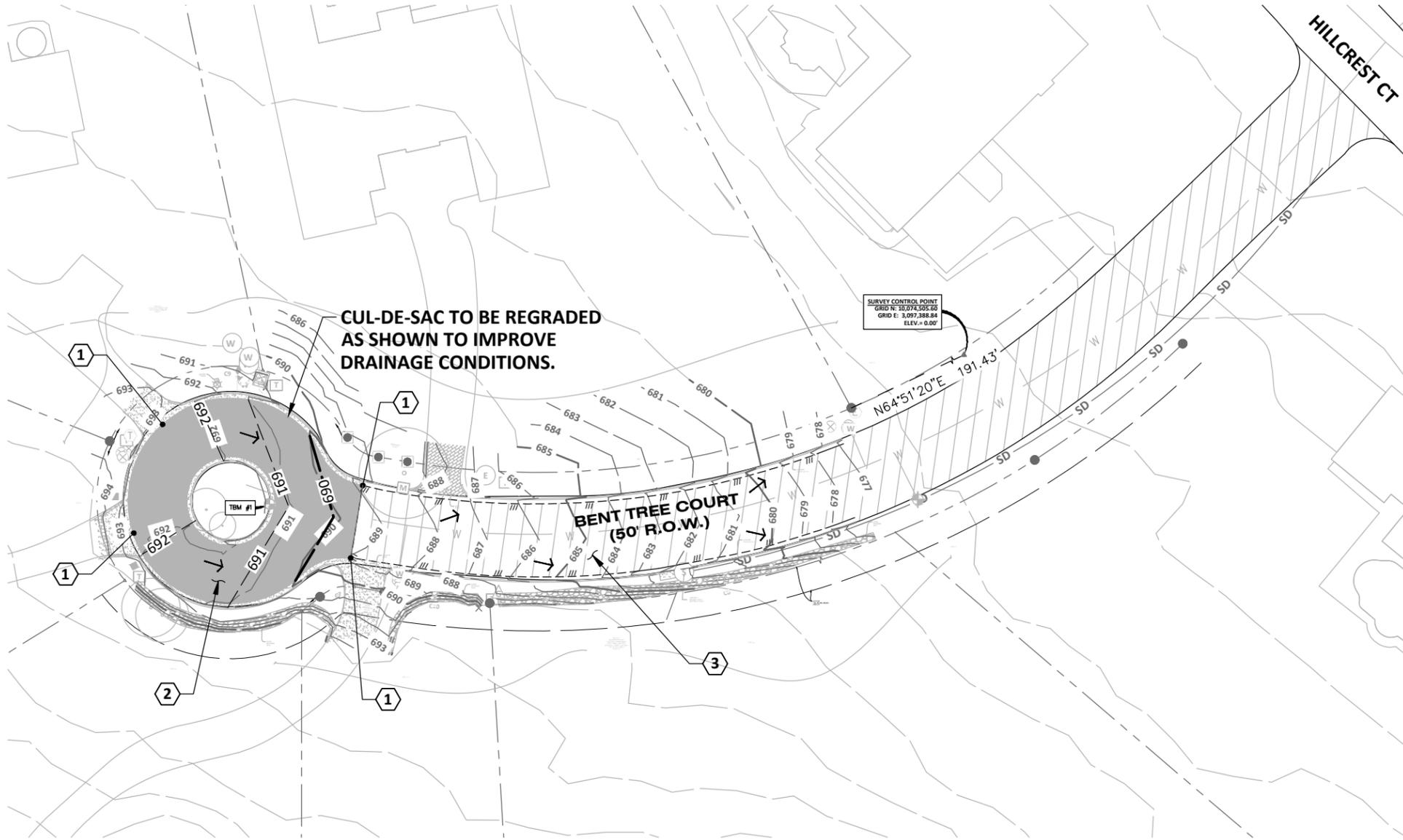


NO.	DATE	REVISION

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ORIGINAL ISSUE	DATE	DATE	DATE
			06-10-2024

BENT TREE CT - PAVEMENT PLAN

Jun 11, 2024 - 11:30am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\9-Production\9-Sheets\BENT TREE CT\C02-23011-00-DRNG - BENT TREE - DA.dwg



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401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		(C1)
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement	---	---
Slope	1%	1%
Top of Pavement	TP 42.25	TP 42.25
Top of Wall	TW 42.25	TW 42.25
Finished Grade	FG 42.25	FG 42.25
Top of Grate	TG 42.25	TG 42.25
Flow Line	FL 42.25	FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain		
Sawcut		
Proposed Swale		
Drum		
Sign		
TYPE III BARRICADE		
DIRECTION OF TRAFFIC FLOW		
CHANNELIZING DEVICE		

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPELS Firm Registration No. 1856



06-11-2024
Susan Smith-Turrieta

NO.	DATE	REVISION

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ORIGINAL ISSUE	DATE 06-10-2024		

BENT TREE CT - DRAINAGE
PLAN

C27.4

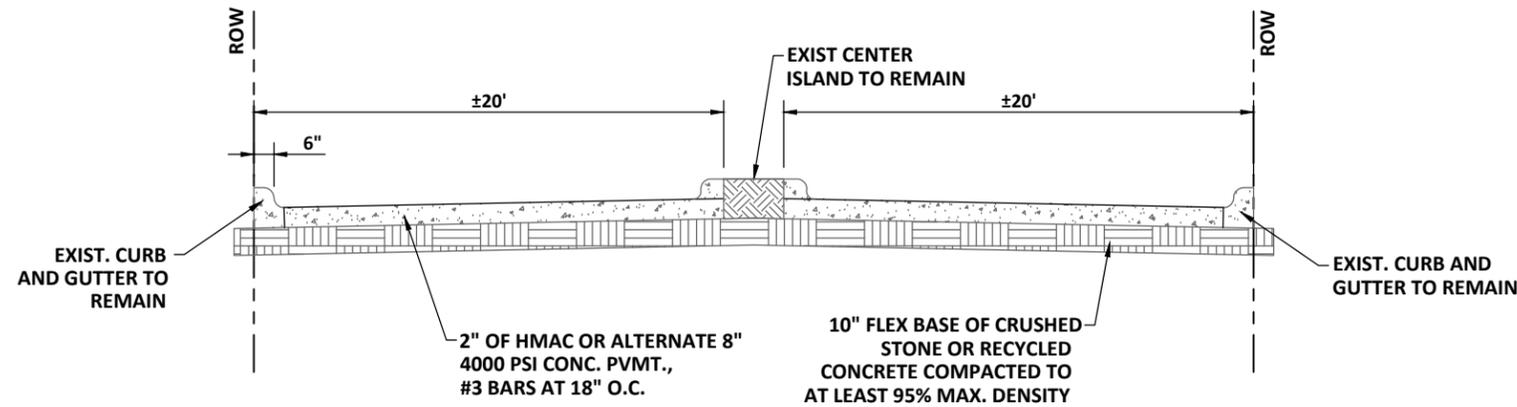
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SHEET NOTES

- NO CHANGES ARE PROPOSED TO THE IMPERVIOUS COVER OF THE ROADWAY AND NO CHANGES WILL BE MADE TO THE EXISTING DRAINAGE PATTERN

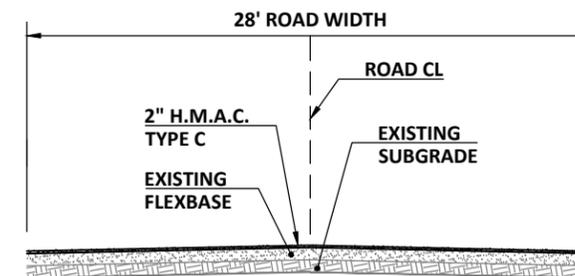
KEY NOTES

- MATCH EXISTING GRADE
- HMAC OR ALTERNATE STAMPED AND STAINED CONCRETE
- 2" MILL AND OVERLAY



BENT TREE CT CUL-DE-SAC PAVING SECTION

NTS



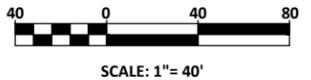
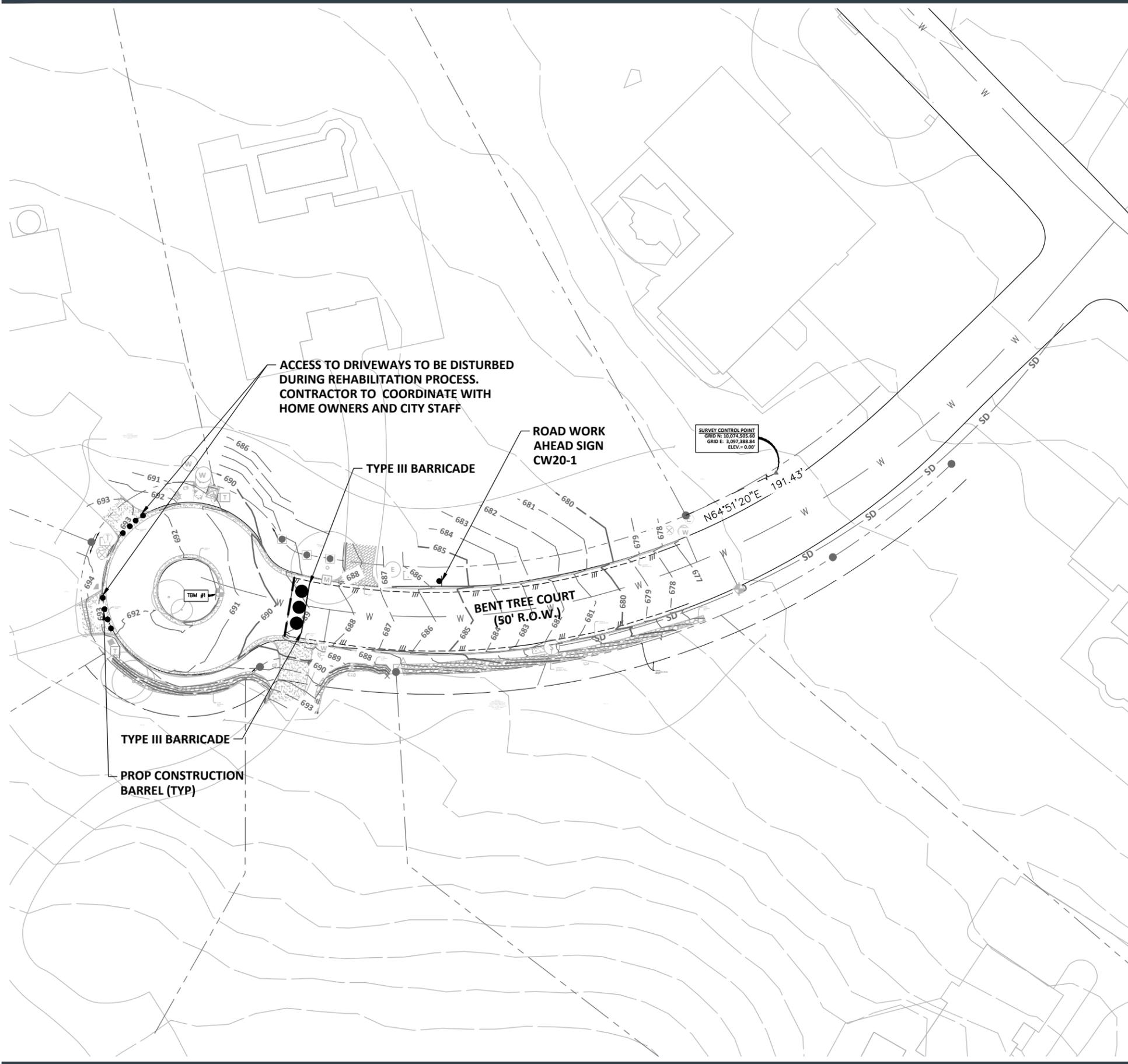
NOTES:

- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
- MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - BENT TREE CT

NTS

Jun 11, 2024 - 11:31am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\9-Production\9-Sheets\BENT TREE CT\02-23011-00-DRNG - BENT TREE - TRF.dwg



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 401 S 1st St., Suite 600
 Austin, Texas 78704
 512.330.1270

LEGEND	
EXISTING	PROPOSED
Curb	
Edge of Pavement	
R.O.W.	
Curve Number	
Storm Sewer/MH	
Large Diam Storm Sewer/MH	
Curb Inlet/Grate Inlet	
Sanitary Sewer/MH/Cleanout	
Large Diam Sanitary Sewer/MH	
Water Line/Fire Hydrant/Valve	
Gas	
Electric	
Phone	
Fence	
Contour	
Easement	
Slope	
Top of Pavement	
Top of Wall	
Finished Grade	
Top of Grate	
Flow Line	
Detail Number	
Detail Sheet Number	
Limits of Construction	
Approx Limits of Floodplain	
Sawcut	
Proposed Swale	
Drum	
Sign	
TYPE III BARRICADE	
DIRECTION OF TRAFFIC FLOW	
CHANNELIZING DEVICE	

TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL PLAN IS ONLY PROVIDED FOR THE DRAINAGE PORTION OF THE SCOPE (CUL-DE-SAC RE-PAVEMENT). MILL AND OVERLAY STREET REHAB TRAFFIC CONTROL TO BE SUPPLIED BY CONTRACTOR PER GENERAL NOTE ON THE COVER PAGE.

**CITY OF WEST LAKE
 HILLS STREET REHAB
 & DRAINAGE
 IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
 TBPELS Firm Registration No. 1856



06-11-2024
Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024	

**BENT TREE CT - TRAFFIC
 CONTROL PLAN**



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

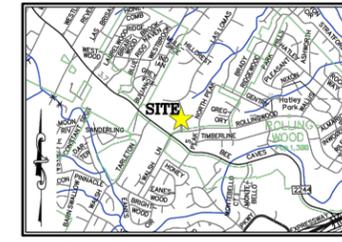
NO.	DATE	REVISION

PROJECT NO. C02-23011-00		
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ROLLINGWOOD DR - SURVEY PLAN

C28.0

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BEARING BASIS:
ALL BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, GRID NORTH, CENTRAL ZONE, (4203), NAD83, ALL DISTANCES WERE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.000068516681.

SURVEY CONTROL:
CONTROL FOR THIS SURVEY IS BASED ON A MAG NAIL WITH "ANWARD CONTROL" WASHER SET, GRID COORDINATES (STATE PLANE TEXAS CENTRAL - 4203) AND ELEVATIONS (NAVD88) SHOWN HEREON DERIVED FROM THE TEXAS COORDINATE NETWORK.

UTILITY NOTE:
THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED (UTILITIES SHOWN HEREON MAY BE EXAGGERATED FOR GRAPHIC REPRESENTATION ONLY) ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES ONLY THE VISIBLE ABOVE GROUND UTILITY STRUCTURES.

FLOODPLAIN NOTE:
THIS PROPERTY IS LOCATED WITHIN ZONE "A", SPECIAL FLOOD HAZARD AREA WITHOUT BASE FLOOD ELEVATIONS DETERMINED, AND ZONE "X" (UNSHADED) AREAS OF MINIMAL FLOOD HAZARD, AS SHOWN ON F.I.R.M. MAP NO. 48453C0449K, TRAVIS COUNTY, TEXAS AND INCORPORATED AREAS, MAP REVISED JANUARY 22, 2020.

THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

BENCHMARK NOTE:
BIM # - SQUARE CUT ON TOP OF CONCRETE DRAINAGE INLET, NORTH OF ROLLINGWOOD DRIVE, AND IN THE WEST MARGIN OF LAS LOMAS DRIVE, 222' NORTHEAST OF AN ELECTRIC MANHOLE, AND ±53' NORTHEAST OF A WASTEWATER MANHOLE.
ELEVATION = 615.67.

GENERAL NOTES:

- PROPERTY ADDRESS: LAS LOMAS DRIVE, WEST LAKE HILLS, TX 78746
- THE LOCATION OF FENCES AND THE SIZE AND LOCATION OF UTILITY STRUCTURES (IF SHOWN), MAY BE EXAGGERATED FOR GRAPHICAL CLARITY.
- ADDITIONAL NUMBERS (IF SHOWN) IN THE TREE LIST AT THE END OF THE TREE DESCRIPTION, REPRESENT THE SIZES AND NUMBER OF MULTI-TRUNK TREES.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON UTILITY MAPS PROVIDED BY THE VARIOUS UTILITY COMPANIES.
- THIS SURVEY WAS DONE FOR THE PURPOSE OF GATHERING TOPOGRAPHIC INFORMATION/ MINIMAL BOUNDARY WAS LOCATED FOR THIS SURVEY.
- THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND WOULD BE SUBJECT TO ANY AND ALL EASEMENTS, CONDITIONS OR RESTRICTIONS THAT A CURRENT TITLE COMMITMENT MAY DISCLOSE.

CURVE TABLE					
CURVE #	RADIUS	LENGTH	DELTA	BEARING	DISTANCE
C1	20.00'	32.05'	91°48'11"	N48°43'14"W	28.73'
C2	370.00'	45.98'	7°07'12"	N00°17'17"E	45.95'

RECORD CURVE TABLE					
CURVE #	RADIUS	LENGTH	DELTA	BEARING	DISTANCE
[C1]	20.00'	31.95'	91°31'57"	N47°17'15"W	28.68'
[C2]	370.00'	45.78'	7°05'21"	N02°00'58"E	45.75'

PARTIAL BOUNDARY, TOPOGRAPHIC, TREE, AND IMPROVEMENT, SURVEY OF A PORTION OF ROLLINGWOOD DRIVE & LAS LOMAS DRIVE
City of West Lake Hills,
Travis County, Texas

Date: 2/29/2024
Project: 01802
Scale: 1" = 20'
Reviewer: DV
Tech: TE
Field Crew: 06/25
Survey Date: FEB. 2024
Sheet: 1 OF 1
DWG: V01802.dwg

LEGEND

---	EXISTING PROPERTY LINES
---	CONTIGUOUS LINE
●	1/2" IRON ROD FOUND (UNLESS NOTED)
●	IRON ROD & CAP FOUND (UNLESS NOTED)
○	SURVEY CONTROL POINT
⊕	BENCHMARK
⊕	BOLLARD POST (UNLESS NOTED)
⊕	ELECTRIC MANHOLE
⊕	MISCELLANEOUS MANHOLE
⊕	WASTEWATER MANHOLE (UNLESS NOTED)
⊕	SEWER (AS NOTED)
—○—	EDGE OF ASPHALT
---	OVERHEAD UTILITY
---	STORM SEWER LINE
---	WASTEWATER LINE
---	WATER LINE
---	GUARD RAIL
---	HAND RAIL
---	WATER VALVE
---	GUY ANCHOR
---	POWER/UTILITY POLE
---	WATER METER
---	IRRIGATION CONTROL VALVE
---	CONCRETE
---	PAVERS
---	PVC
---	POLYVINYL CHLORIDE PIPE
---	FLOW LINE ELEVATION
---	VOL./PG.
---	VOLUME, PAGE
---	DOC. NO.
---	DOCUMENT NUMBER
---	R.O.W.
---	RIGHT-OF-WAY
---	P.L.T.C.T.
---	PLAT RECORDS,
---	TRAVIS COUNTY, TEXAS
---	O.P.R.T.C.T.
---	OFFICIAL PUBLIC RECORDS,
---	TRAVIS COUNTY, TEXAS
---	RECORD INFORMATION FOR ADJACENT PROPERTIES

TREE LIST

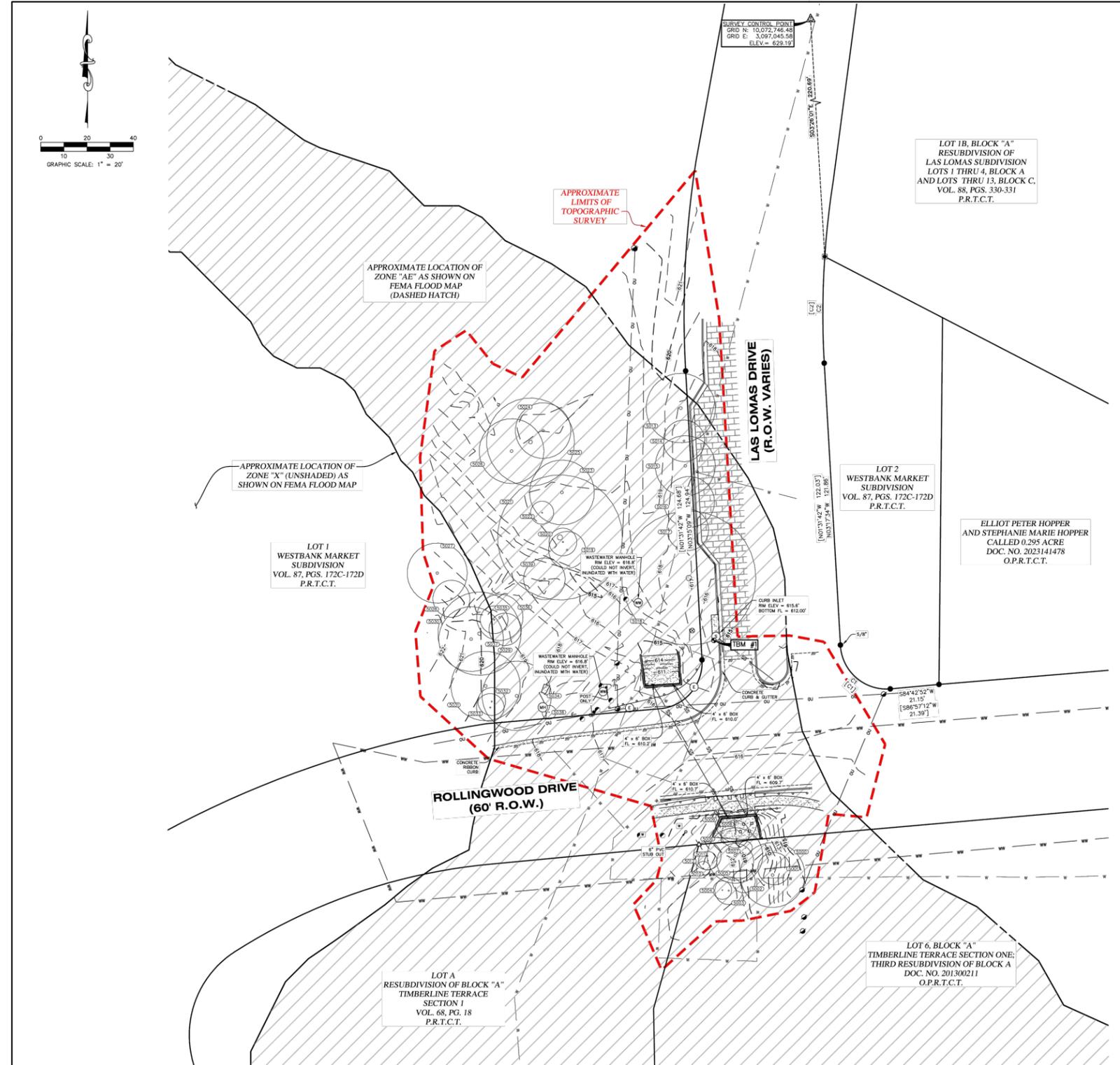
NUMBER	DESCRIPTION
5000	14" HACKBERRY 9-5-4
5001	15" LIQUSTRUM 3-3
5002	5" CEDAR ELM
5003	6" CEDAR ELM
5004	4" CEDAR ELM
5005	8" LIQUSTRUM 5-5
5006	12" CEDAR ELM
5007	3" MULBERRY
5008	5" CEDAR ELM AD
5009	7" MULBERRY 5-4
5010	3" CEDAR ELM
5011	4" CEDAR ELM
5012	8" HACKBERRY
5013	15" GRAPE MYRTLE 6-5-4-4-4
5014	9" GRAPE MYRTLE 6-5
5015	13" GRAPE MYRTLE 5-4-4-4-4
5016	11" GRAPE MYRTLE 5-4-4-4
5017	9" GRAPE MYRTLE 3-3-3-3
5018	29" LIVE OAK
5019	8" HACKBERRY
5020	5" CEDAR ELM
5021	27" CEDAR
5022	5" HACKBERRY
5023	14" CEDAR ELM
5024	12" CEDAR ELM
5025	21" CEDAR ELM 16-10
5026	14" CEDAR ELM
5027	15" RED OAK
5028	8" LIVE OAK
5029	14" RED OAK
5030	18" CEDAR 7-4-4-4-4
5031	15" CEDAR 9-8-4
5032	5" CEDAR
5033	6" CEDAR
5034	15" LIQUSTRUM 10-10
5035	8" LIVE OAK
5036	10" CEDAR
5037	7" LIVE OAK
5038	3" HACKBERRY
5039	9" CEDAR ELM

NOTE: AD* (TREE APPEARS TO BE DEAD)

SURVEYOR'S CERTIFICATE:
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WAS ACTUALLY MADE UPON THE GROUND UNDER MY DIRECTION AND SUPERVISION ON THE DATE SHOWN.

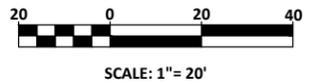
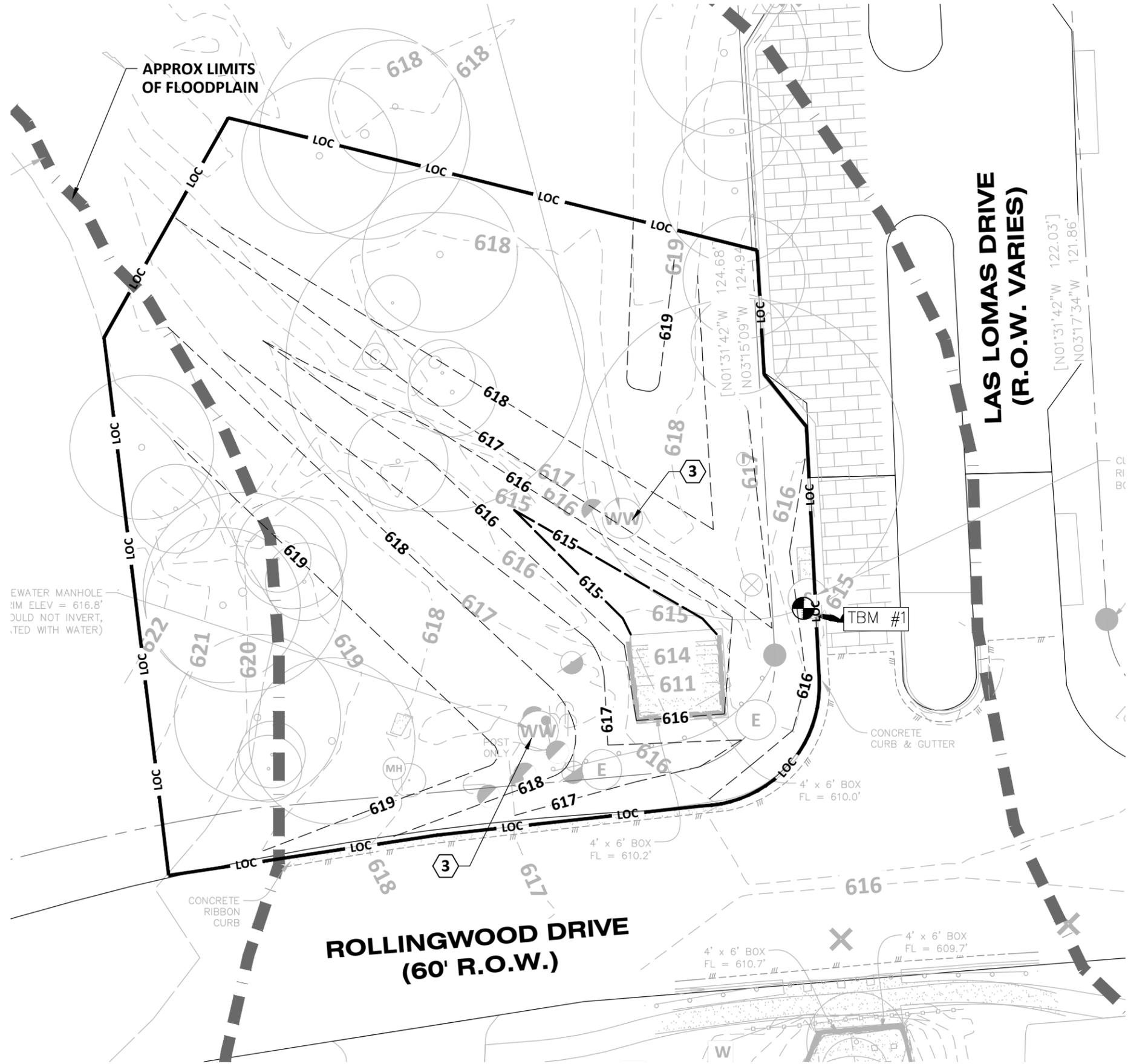
2/29/2024 DATE

JASON WARD, R.L.S.
TEXAS REGISTRATION NO. 5811
JWARD@WARDLS.COM



FOR REFERENCE ONLY

Jun 11, 2024 - 11:31am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Sheets\ROLLINGWOOD DR\C02-23011-00-DRNG - ROLLINGWOOD - PAI.dwg



LEGEND

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		(C1)
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
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Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain		
Sawcut		
Proposed Swale		
Drum		
Sign		
TYPE III BARRICADE		
DIRECTION OF TRAFFIC FLOW		
CHANNELIZING DEVICE		

- KEY NOTES**
- ① MATCH EXISTING GRADE
 - ② 2% MAX SLOPE
 - ③ EXISTING UTILITY TO BE PROTECTED IN PLACE



Walter P. Moore and Associates, Inc.
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**CITY OF WEST LAKE
 HILLS STREET REHAB
 & DRAINAGE
 IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
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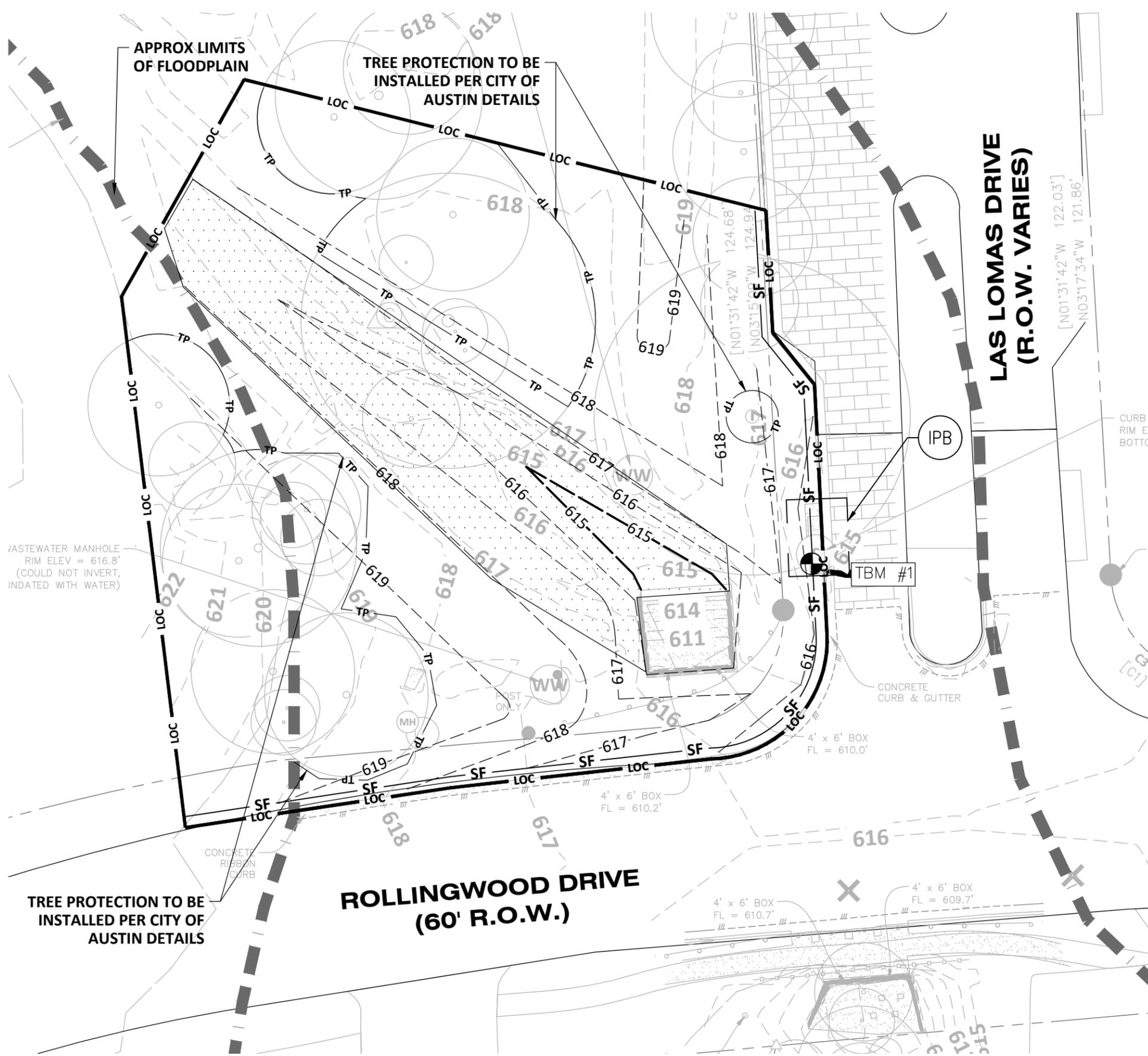
06-11-2024

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
	ORIGINAL ISSUE	DATE	06-10-2024

**ROLLINGWOOD DR -
 GRADING & DRAINAGE PLAN**

Jun 11, 2024 - 11:31am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\ROLLINGWOOD DR\C02-23011-00-DRNG - ROLLINGWOOD - ECS.dwg



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 Austin, Texas 78704
 512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number	---	---
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement	---	---
Slope	---	1%
Top of Pavement	TP	TP 42.25
Top of Wall	TW	TW 42.25
Finished Grade	FG	FG 42.25
Top of Grate	TG	TG 42.25
Flow Line	FL	FL 42.25
Detail Number	5	5
Detail Sheet Number	CS.0	CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---

EROSION CONTROL LEGEND

- INLET PROTECTION BARRIER
- SILT FENCE
- TREE PROTECTION

- NOTES:**
- ALL AFFECTED INLETS SHALL BE PROTECTED BEFORE CONSTRUCTION ACTIVITIES BEGIN.
 - SEDIMENT AND EROSION CONTROLS INCLUDING NON-STORMWATER DISCHARGES SHALL BE AS PER THE SPECIFICATIONS.

HATCH LEGEND

- TURF REINFORCING MAT

SHEET NOTES

- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.

EROSION CONTROL NOTES

- THIS PROJECT IS SUBJECT TO ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTION DISCHARGE ELIMINATIONAL SYSTEM (NPDES) CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO EXECUTE A NOTICE OF INTENT AND IMPLEMENT THE POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS AND COMPLY WITH ALL REPORTING AND INSPECTION REQUIREMENTS SET FORTH IN THE NPDES REGULATIONS.
- REINFORCED SILT FENCES AND INLET PROTECTION TO BE PROVIDED DURING CONSTRUCTION OF THIS PROJECT, AND REMOVED UPON CONSTRUCTION COMPLETION (SEE SPECS. AND DETAILS).
- CONTRACTOR TO PROVIDE STABILIZED CONSTRUCTION EXIT PER DETAIL AT ALL POINTS OF EGRESS DURING CONSTRUCTION.
- PRIOR TO REMOVAL OF EROSION CONTROL DEVICES, ALL AREAS DISTURBED ARE TO BE HYDRO-MULCH SEEDED.

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
 TBPELS Firm Registration No. 1856



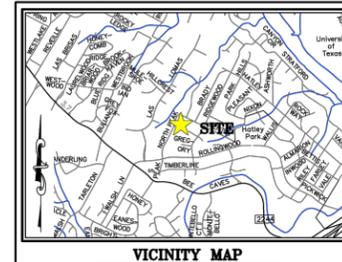
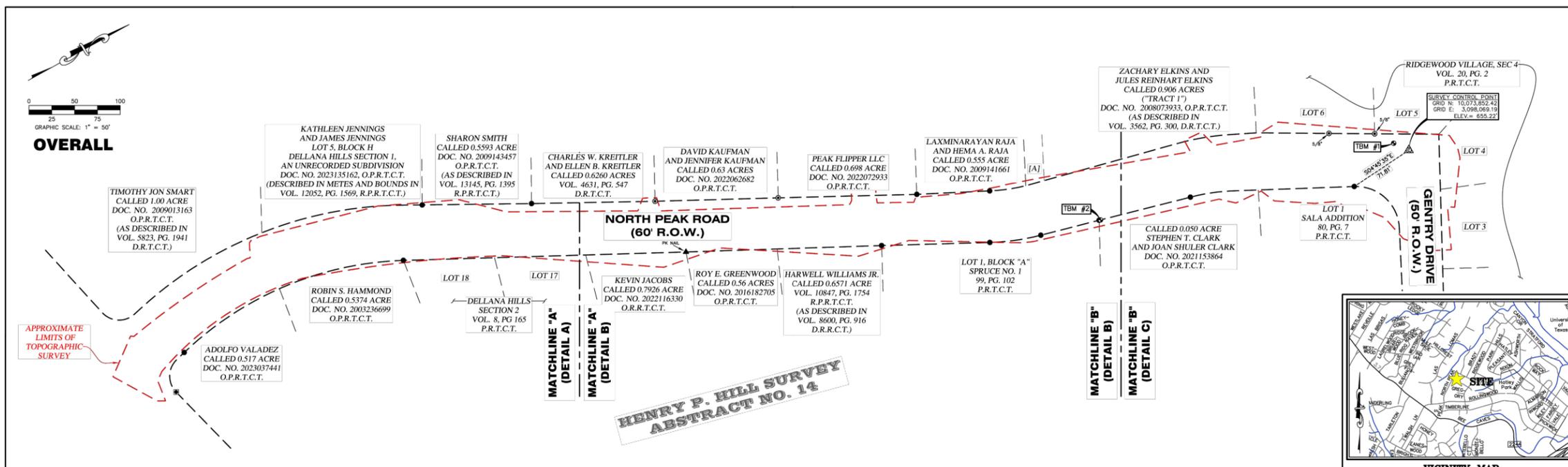
NO.	DATE	REVISION

PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024	

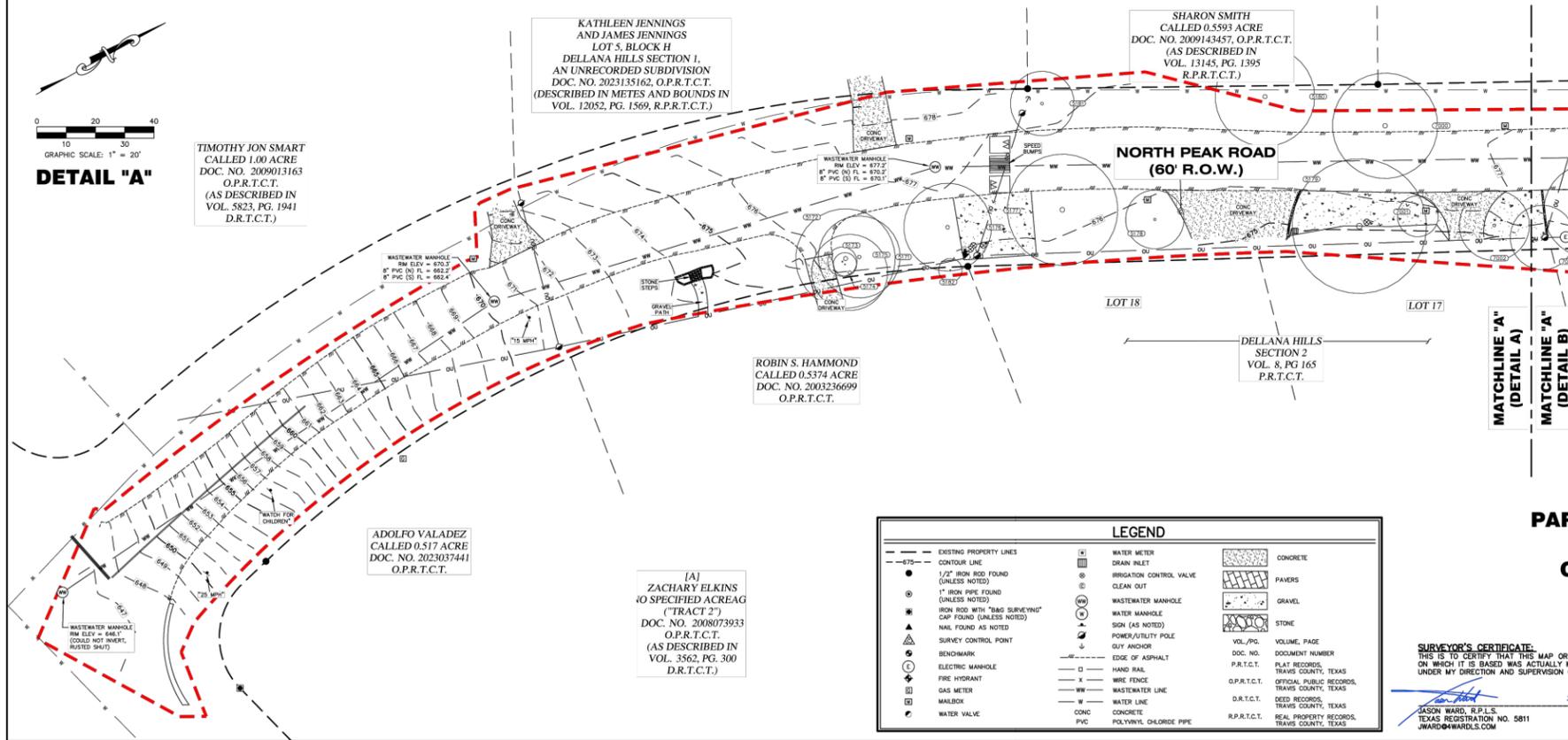
ROLLINGWOOD DR - EROSION CONTROL PLAN



Walter P. Moore and Associates, Inc.
 401 S 1st St., Suite 600
 Austin, Texas 78704
 512.330.1270



CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS



BEARING BASIS:
ALL BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, GRID NORTH, CENTRAL ZONE, (4203), NADESS. ALL DISTANCES WERE ADJUSTED TO SURFACE USING A COMBINED SCALE FACTOR OF 1.000070343937.

SURVEY CONTROL:
CONTROL FOR THIS SURVEY IS BASED ON A MAG NAIL WITH "AWARD CONTROL" WASHER SET, GRID COORDINATES (STATE PLANE TEXAS CENTRAL - 4203) AND ELEVATIONS (NAVD88) SHOWN HEREON WERE COMPUTED FROM NGS O.P.A.S. SOLUTION REPORT DERIVED FROM AWARD STATIC DATA COLLECTED JANUARY 25, 2024.

UTILITY NOTE:
THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED (UTILITIES SHOWN HEREON MAY BE EXAGGERATED FOR GRAPHIC REPRESENTATION ONLY) ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES ONLY THE VISIBLE ABOVE GROUND UTILITY STRUCTURES.

FLOODPLAIN NOTE:
THIS PROPERTY IS LOCATED WITHIN ZONE 'X' (UNSHADED), AREAS OF MINIMAL FLOOD HAZARD, AS SHOWN ON THE F.I.E.M. MAP NO. 48452048K, TRAVIS COUNTY, TEXAS AND INCORPORATED AREAS, MAP REVISED JANUARY 22, 2020.
THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.

BENCHMARK NOTE:
TBM #1 - SQUARE CUT ON TOP OF CONCRETE CURB IN THE NORTHWEST MARGIN OF N PEAK ROAD, ±53 NORTHWEST OF A FIRE HYDRANT IN THE SOUTH MARGIN OF GENTRY DRIVE, AND ±54 SOUTHWEST OF A WASTEWATER MANHOLE IN THE NORTH MARGIN OF GENTRY DRIVE.
ELEVATION = 655.64'.
TBM #2 - COTTON OIL SPINDLE SET IN POWER POLE IN THE EAST MARGIN OF N PEAK ROAD, ±55 SOUTHWEST OF A WATER MANHOLE WITHIN N PEAK ROAD, AND ±4 SOUTHWEST OF A FIRE HYDRANT IN THE EAST MARGIN OF N PEAK ROAD, ±57.
ELEVATION = 674.52'.

GENERAL NOTES:
1. PROPERTY ADDRESS: NORTH PEAK RD, WEST LAKE HILLS, TX 78746
2. THE LOCATION OF FENCES AND THE SIZE AND LOCATION OF UTILITY STRUCTURES, (IF SHOWN), MAY BE EXAGGERATED FOR GRAPHICAL CLARITY.
3. ADDITIONAL NUMBERS (IF SHOWN) IN THE TREE LIST AT THE END OF THE TREE DESCRIPTION, REPRESENT THE SIZES AND NUMBER OF MULTI-TRUNK TREES.
4. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON UTILITY MAPS PROVIDED BY THE VARIOUS UTILITY COMPANIES.
5. THIS SURVEY WAS DONE FOR THE PURPOSE OF GATHERING TOPOGRAPHIC INFORMATION/ MINIMAL BOUNDARY WAS LOCATED FOR THIS SURVEY.
6. THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND WOULD BE SUBJECT TO ANY AND ALL EASEMENTS, CONDITIONS OR RESTRICTIONS THAT A CURRENT TITLE COMMITMENT MAY DISCLOSE.

LEGEND

---	EXISTING PROPERTY LINES	[Symbol]	WATER METER	[Symbol]	CONCRETE
---	CONTOUR LINE	[Symbol]	DRAIN INLET	[Symbol]	PAVERS
•	1/2" IRON ROD FOUND (UNLESS NOTED)	[Symbol]	CLEAN OUT	[Symbol]	GRAVEL
○	1" IRON PIPE FOUND (UNLESS NOTED)	[Symbol]	WASTEWATER MANHOLE	[Symbol]	STONE
○	IRON ROD WITH "BAG SURVEYING" CAP FOUND (UNLESS NOTED)	[Symbol]	WATER MANHOLE	[Symbol]	VOL./PG. VOLUME, PAGE
•	NAI FOUND AS NOTED	[Symbol]	SON (AS NOTED)	[Symbol]	DOC. NO. DOCUMENT NUMBER
▲	SURVEY CONTROL POINT	[Symbol]	POWER/UTILITY POLE	[Symbol]	P.L.T.C.T. PLAT RECORDS, TRAVIS COUNTY, TEXAS
○	BENCHMARK	[Symbol]	GUY ANCHOR	[Symbol]	O.P.A.T.C.T. OFFICIAL PUBLIC RECORDS, TRAVIS COUNTY, TEXAS
○	ELECTRIC MANHOLE	[Symbol]	EDGE OF ASPHALT	[Symbol]	D.A.T.C.T. DEED RECORDS, TRAVIS COUNTY, TEXAS
+	FIRE HYDRANT	[Symbol]	HAND RAIL	[Symbol]	R.P.R.T.C.T. REAL PROPERTY RECORDS, TRAVIS COUNTY, TEXAS
+	GAS METER	[Symbol]	WIRE FENCE	[Symbol]	
+	MALIBOX	[Symbol]	WASTE-WATER LINE	[Symbol]	
+	WATER VALVE	[Symbol]	WATER LINE	[Symbol]	
		[Symbol]	CONG CONCRETE	[Symbol]	
		[Symbol]	PVC POLYVINYL CHLORIDE PIPE	[Symbol]	

PARTIAL BOUNDARY, TOPOGRAPHIC, TREE AND IMPROVEMENT SURVEY OF A PORTION OF NORTH PEAK ROAD City of West Lake Hills, Travis County, Texas

SURVEYOR'S CERTIFICATE:
 THIS IS TO CERTIFY THAT THIS MAP OR PLAT OR PLAN AND THE SURVEY ON WHICH IT IS BASED WAS ACTUALLY MADE UPON THE GROUND UNDER MY DIRECTION AND SUPERVISION ON THE DATE SHOWN.
 JASON WARD, R.P.L.S. DATE: 3/12/2024
 TEXAS REGISTRATION NO. 5811
 JWARD@WARDL.S.COM



Date:	3/12/2024
Project:	01801
Scale:	1" = 20/50'
Maker:	DV
Team:	TE
Field Crew:	CS/JS
Survey Date:	MAR. 2024
Sheet:	1 OF 2

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE		DATE 06-10-2024	

NORTH PEAK RD - SURVEY PLAN

C29.0
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FOR REFERENCE ONLY



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704

512.330.1270

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPELS Firm Registration No. 1856



06-11-2024
Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO.	C02-23011-00
DESIGNED BY	ZS/ESM
REVIEWED BY	SST
DRAWN BY	AC
ORIGINAL ISSUE	DATE
	06-10-2024

NORTH PEAK RD - DEMOLITION PLAN

C29.2

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LEGEND

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number	C1	C1
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement	---	---
Slope	1%	1%
Top of Pavement	TP 42.25	TP 42.25
Top of Wall	TW 42.25	TW 42.25
Finished Grade	FG 42.25	FG 42.25
Top of Grate	TG 42.25	TG 42.25
Flow Line	FL 42.25	FL 42.25
Detail Number	5	5
Detail Sheet Number	CS.0	CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---

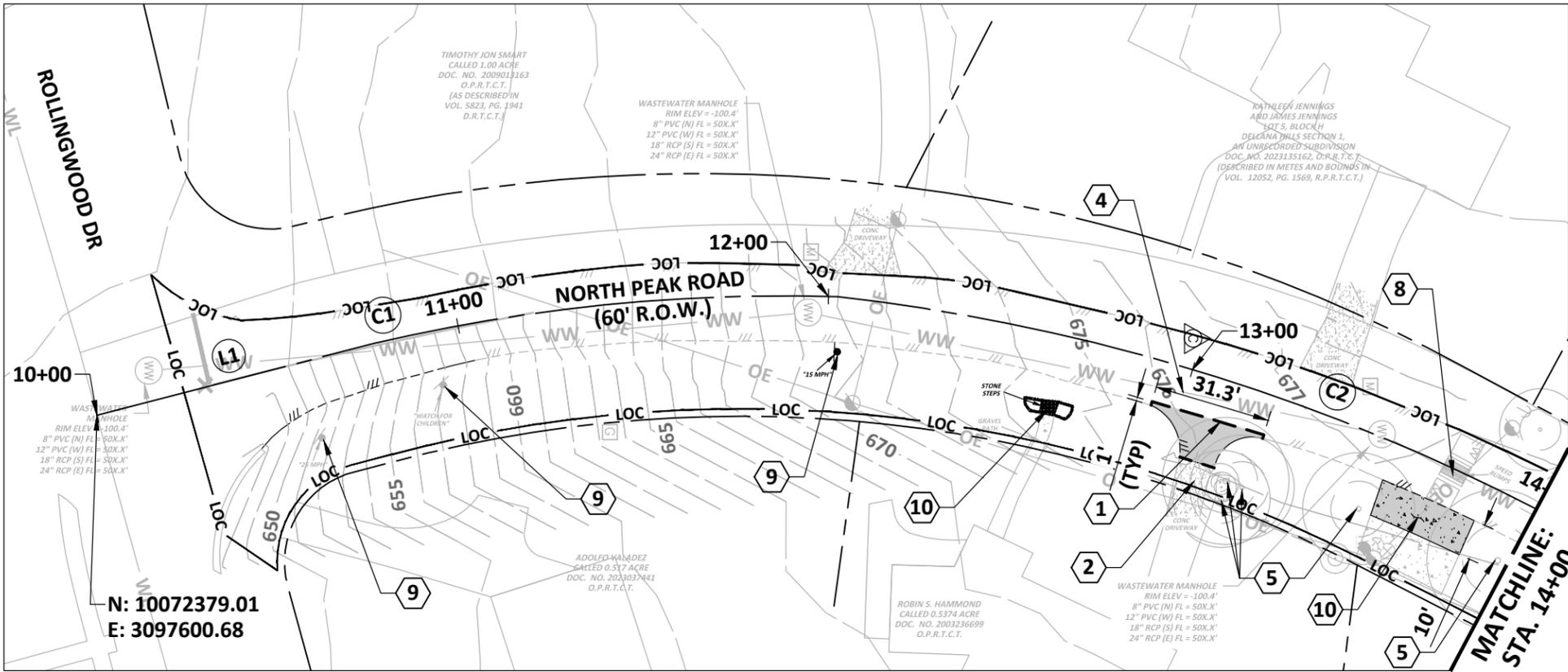
HATCH LEGEND

- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED
- GRAVEL TO BE REMOVED
- BRICK PAVERS TO BE REMOVED

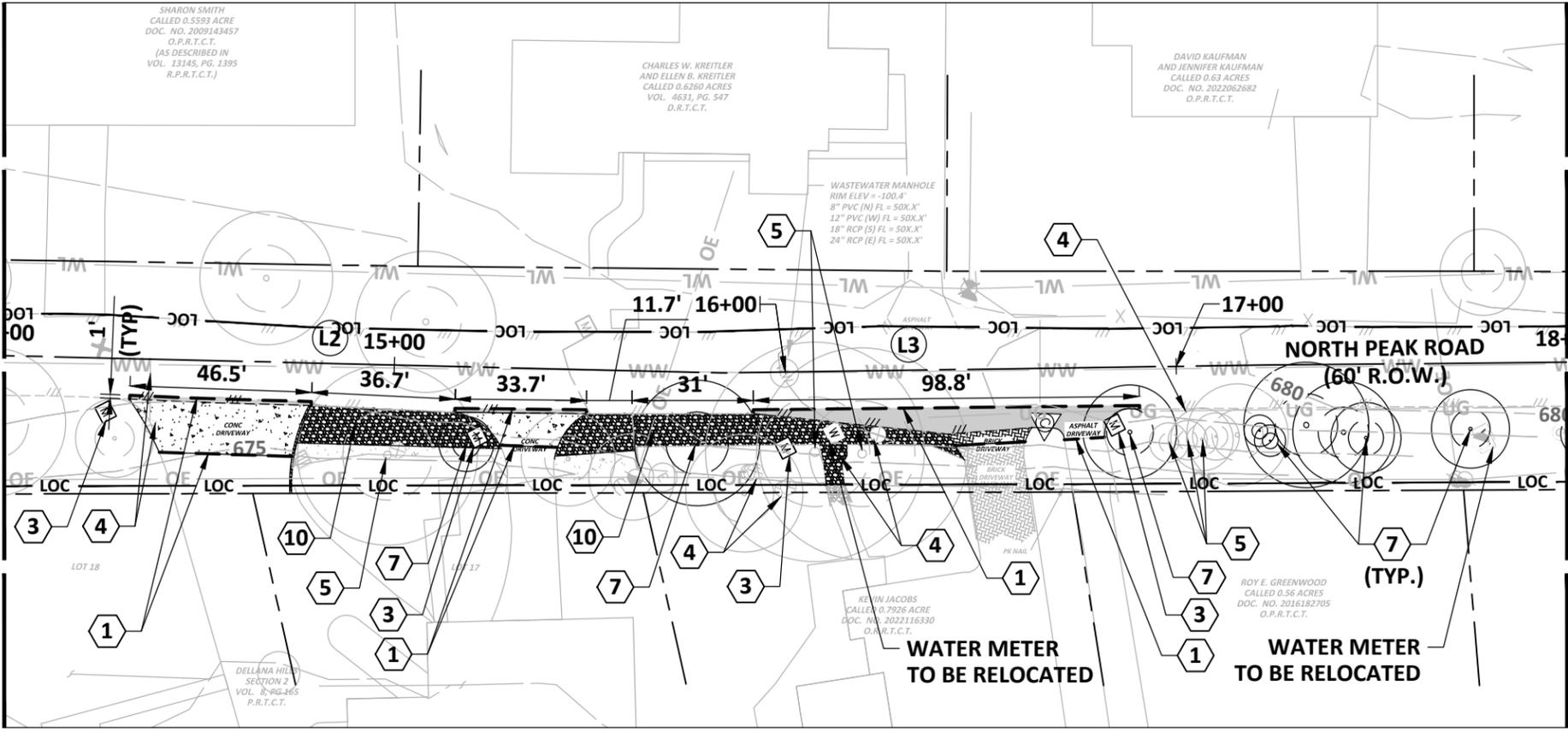
- ### SHEET NOTES
- CONTRACTOR TO COORDINATE CONSTRUCTION WITH THE CITY AND HOMEOWNERS AS ACCESS TO HOMES WILL BE IMPACTED
 - ALL PROPOSED WORK TO REMAIN WITHIN THE CITY RIGHT OF WAY
 - CONTRACTOR TO CLEAR & GRUB IN THE ROW AS NEEDED FOR CONSTRUCTION BUT SHALL CONTACT CITY AND ENGINEER BEFORE REMOVING PROTECTED TREES (>10" DIA)

- ### KEY NOTES
- FULL-DEPTH SAWCUT
 - CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING PAVEMENT/STRUCTURE. ANY DAMAGE TO BE REPAIRED AT THEIR EXPENSE TO ORIGINAL OR BETTER CONDITION
 - PROTECT IN PLACE EXISTING MAILBOX OR REMOVE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE
 - PROTECT IN PLACE EXISTING UTILITY
 - PROTECT IN PLACE EXISTING TREE
 - PROTECT IN PLACE EXISTING POWER POLE
 - REMOVE EXISTING TREE
 - REMOVE AND REINSTALL SPEED BUMP
 - CONTRACTOR TO PROTECT OR REMOVE, STORE AND REINSTALL EXISTING TRAFFIC SIGN
 - REMOVE LANDSCAPING IN THE ROW AS NEEDED FOR CONSTRUCTION

MATCHLINE: STA. 18+00;
SEE SHEET C29.3



N: 10072379.01
E: 3097600.68



MATCHLINE: STA. 14+00

Line Table: Alignments

Line #	Length	Direction
L1	76.616	N14° 31' 14.32"W
L2	184.193	N28° 39' 47.36"E
L3	138.627	N26° 27' 55.86"E
L4	251.089	N26° 44' 17.47"E
L5	60.136	N25° 15' 02.01"E
L6	134.068	N15° 04' 24.61"E
L7	74.820	N21° 08' 12.69"E
L8	93.278	N28° 43' 40.35"E
L9	72.242	S63° 58' 48.97"E

Curve Table: Alignments

Curve #	Radius	Length	Chord Direction
C1	482.760	125.873	N05° 45' 35.14"W
C2	539.456	197.368	N16° 53' 04.08"E
C3	511.253	99.710	N17° 59' 45.38"E
C4	46.190	59.943	N62° 42' 07.65"E
C5	25.000	7.042	S72° 03' 00.71"E



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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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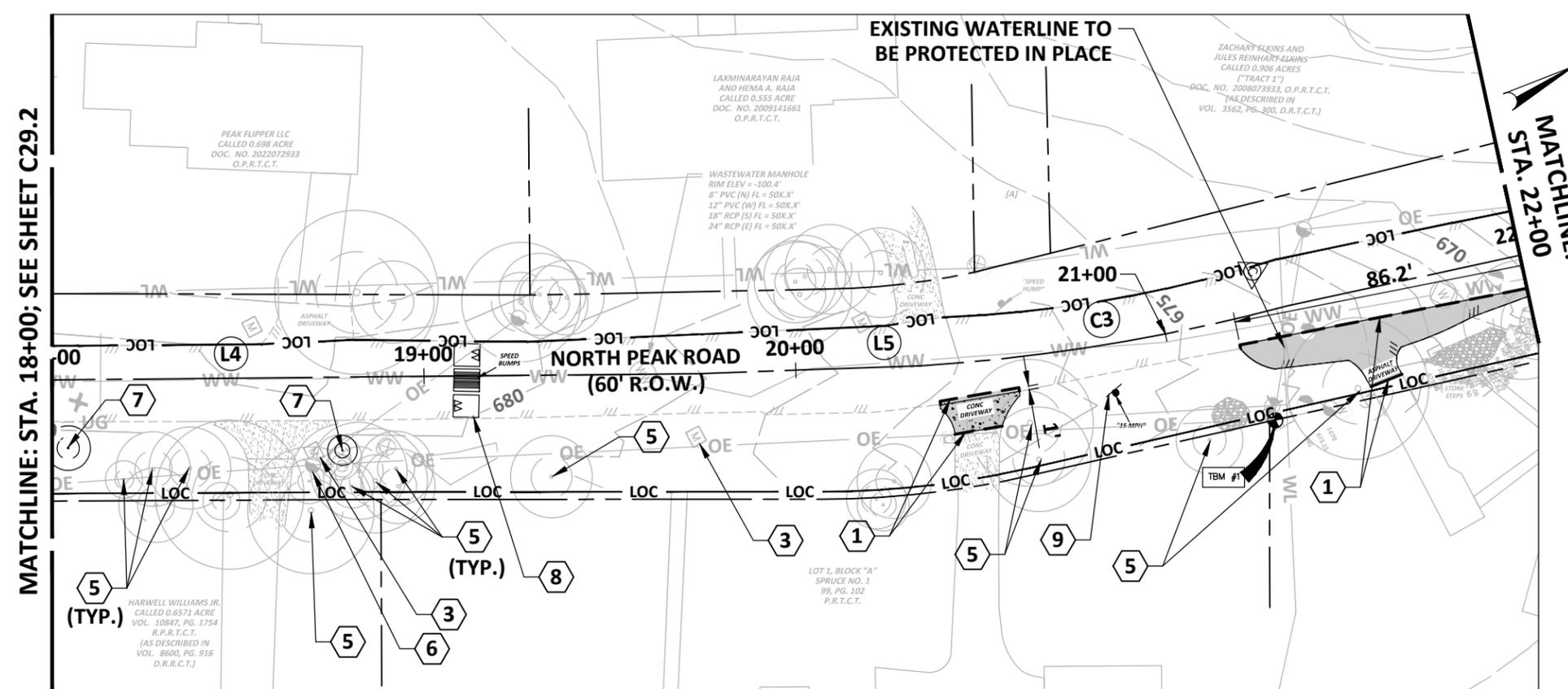


06-11-2024
Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

NORTH PEAK RD - DEMOLITION PLAN



MATCHLINE: STA. 18+00; SEE SHEET C29.2



LEGEND

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number	---	---
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement	---	---
Slope	1%	1%
Top of Pavement	TP 42.25	TP 42.25
Top of Wall	TW 42.25	TW 42.25
Finished Grade	FG 42.25	FG 42.25
Top of Grade	TG 42.25	TG 42.25
Flow Line	FL 42.25	FL 42.25
Detail Number	5	5
Detail Sheet Number	CS.0	CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---

HATCH LEGEND

- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED

SHEET NOTES

- CONTRACTOR TO COORDINATE CONSTRUCTION WITH THE CITY AND HOMEOWNERS AS ACCESS TO HOMES WILL BE IMPACTED
- ALL PROPOSED WORK TO REMAIN WITHIN THE CITY RIGHT OF WAY
- CONTRACTOR TO CLEAR & GRUB ROW AS NEEDED FOR CONSTRUCTION BUT SHALL CONTACT CITY AND ENGINEER BEFORE REMOVING PROTECTED TREES (>10")

KEY NOTES

- FULL-DEPTH SAWCUT
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- PROTECT IN PLACE EXISTING MAILBOX OR REMOVE AND RE-INSTALL AFTER CONSTRUCTION IS COMPLETE
- PROTECT IN PLACE EXISTING UTILITY
- PROTECT IN PLACE EXISTING TREE
- PROTECT IN PLACE EXISTING POWER POLE
- REMOVE EXISTING TREE
- REMOVE AND REINSTALL SPEED BUMP
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L6	134.068	N15° 04' 24.61"E
L7	74.820	N21° 08' 12.69"E
L8	93.278	N28° 43' 40.35"E
L9	72.242	S63° 58' 48.97"E

Curve #	Radius	Length	Chord Direction
C1	482.760	125.873	N05° 45' 35.14"W
C2	539.456	197.368	N16° 53' 04.08"E
C3	511.253	99.710	N17° 59' 45.38"E
C4	46.190	59.943	N62° 42' 07.65"E
C5	25.000	7.042	S72° 03' 00.71"E

Jun 11, 2024 - 11:33am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage 19-Production\05-Sheets\NORTH PEAK RD\C02-23011-00-DRNG - NORTH PEAK RD - DM.dwg



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06-11-2024

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NORTH PEAK RD - GRADING PLAN

C29.4

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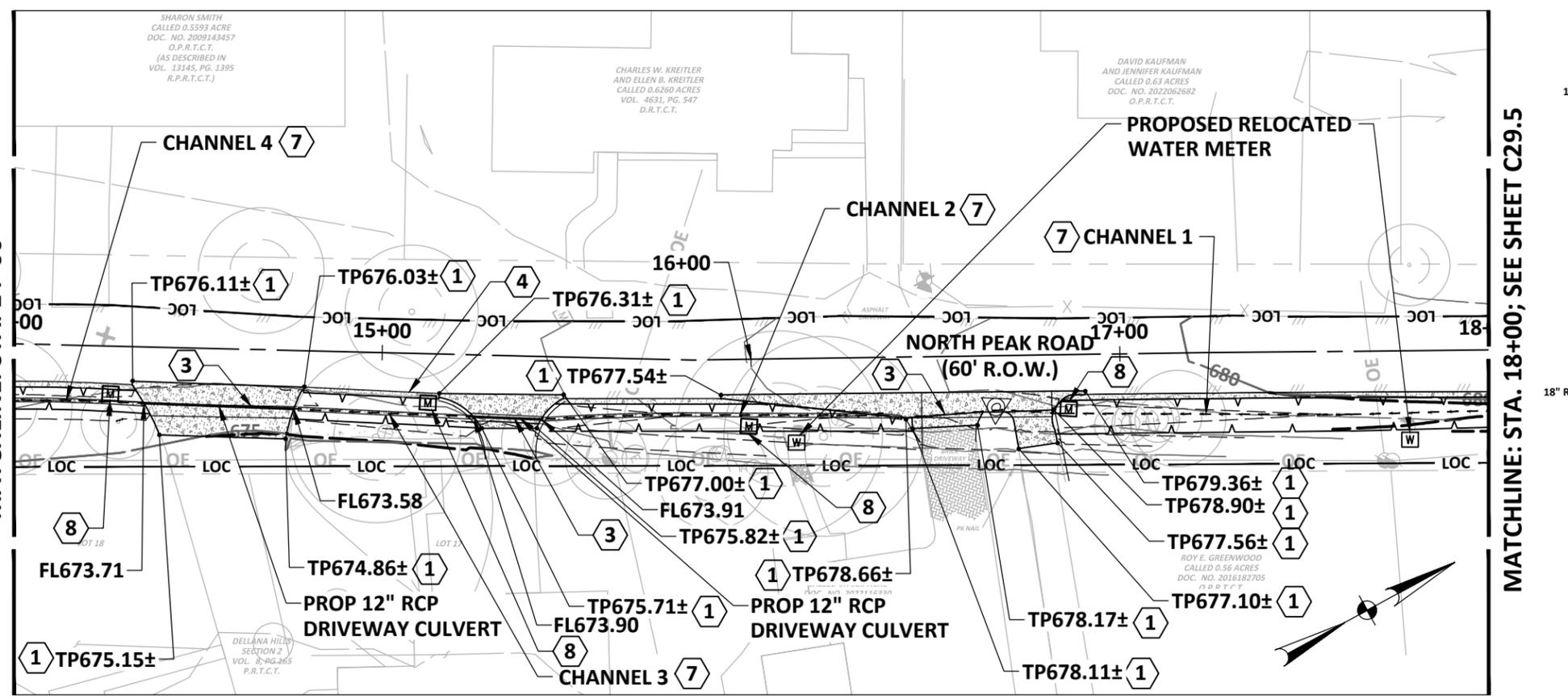
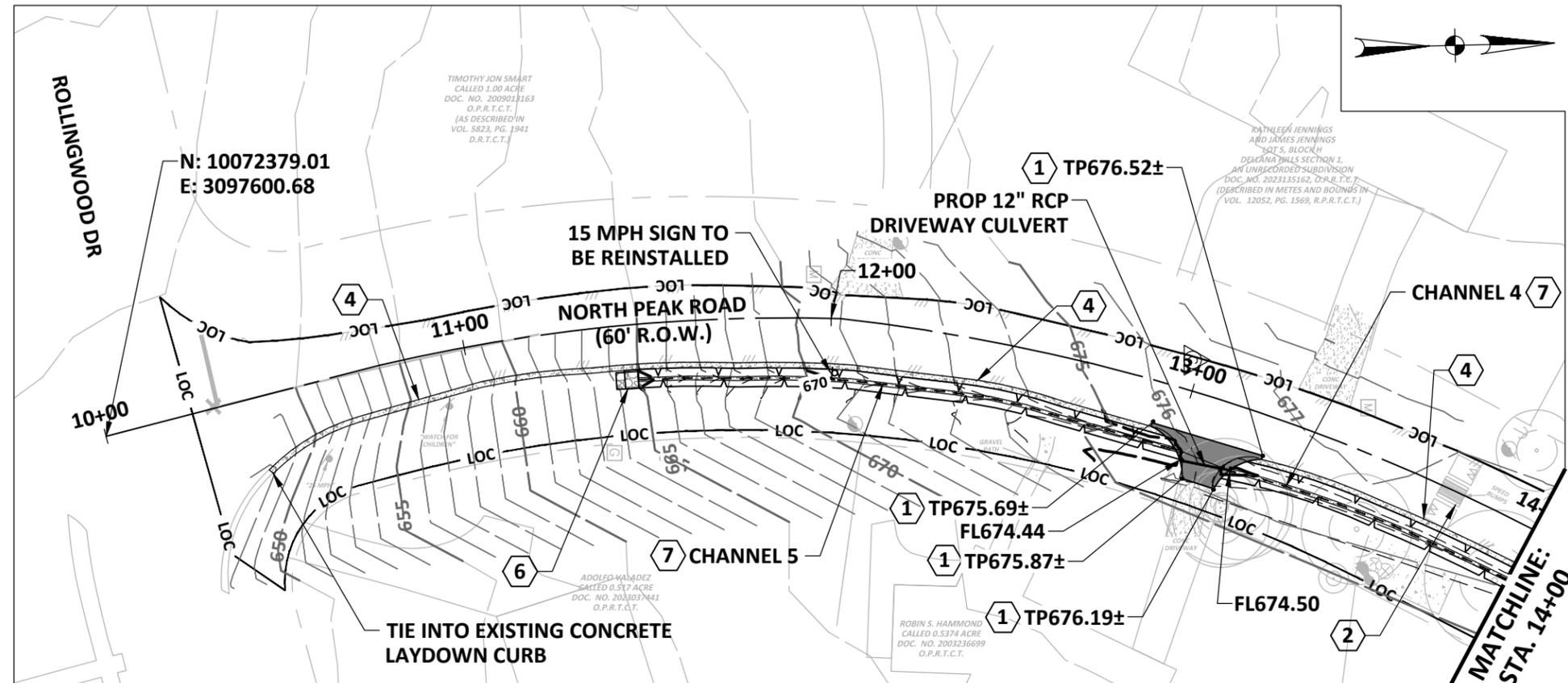
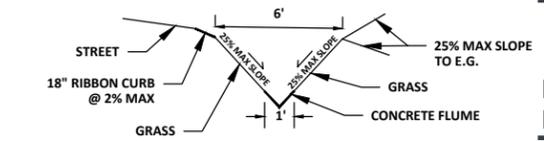
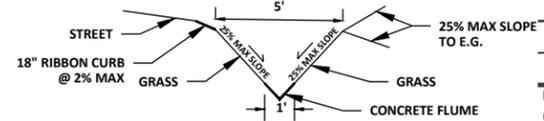
LEGEND

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number	---	---
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	---	---
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement	---	---
Slope	---	1%
Top of Pavement	TP 42.25	TP 42.25
Top of Wall	TW 42.25	TW 42.25
Finished Grade	FG 42.25	FG 42.25
Top of Grade	TG 42.25	TG 42.25
Flow Line	FL 42.25	FL 42.25
Detail Number	5	5
Detail Sheet Number	CS.0	CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---

HATCH LEGEND

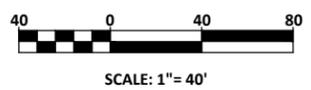
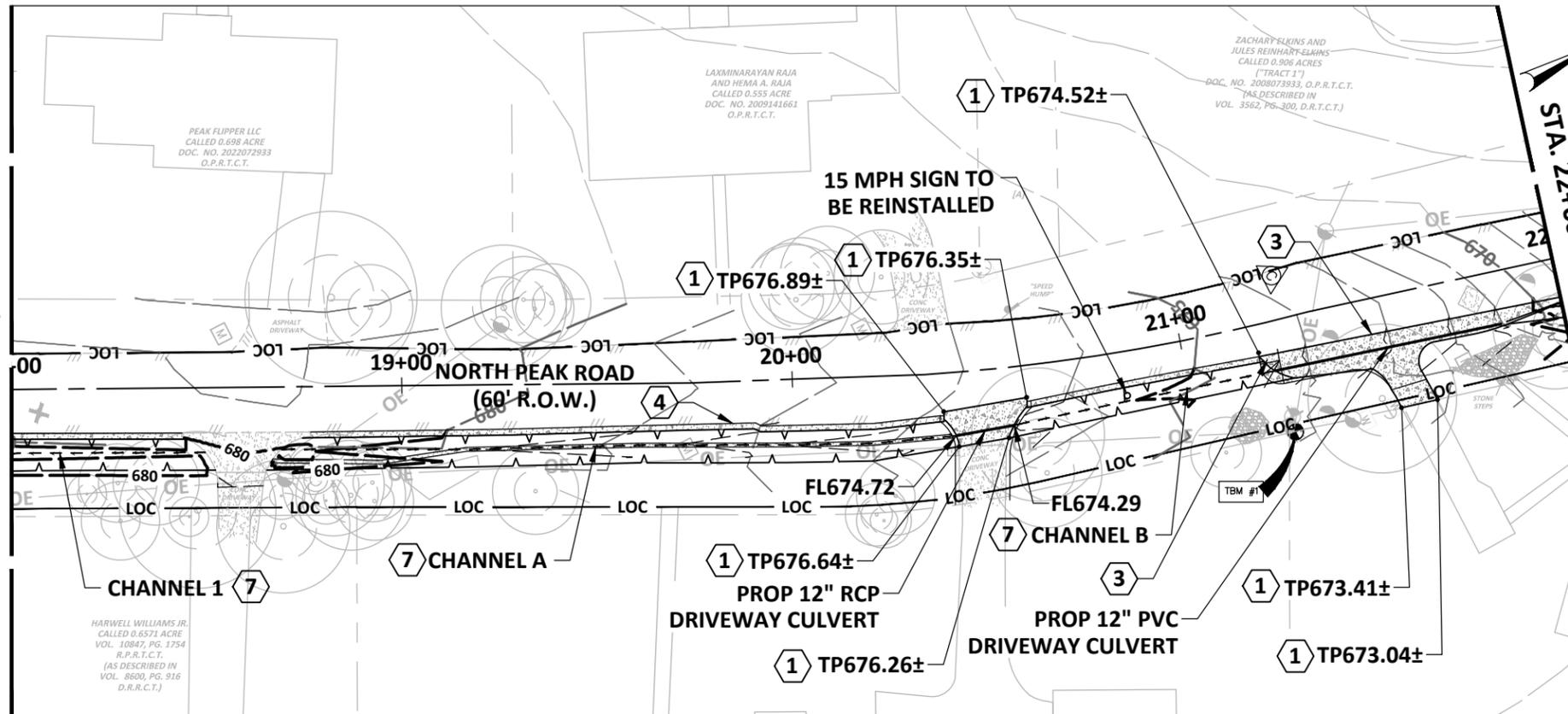
- HMMA PAVEMENT
- CONCRETE PAVEMENT
- RIP RAP

- ### SHEET NOTES
- CONTRACTOR TO GRADE LANDSCAPED AREA AT MINIMUM OF 5% SLOPE AWAY FROM BUILDING FOR AT LEAST 10 FEET BEYOND PERIMETER OF BUILDING
- ### KEY NOTES
- MATCH EXISTING GRADE
 - SPEED BUMPS TO BE REPLACED AFTER REPAVEMENT OF ROADWAY
 - PROP CONC VALLEY GUTTER PER CITY OF AUSTIN DETAIL 436S-2. REFER DRIVEWAY 2 GRADING DETAIL
 - PROP CONCRETE LAYDOWN CURB
 - PROP 12" RCP STM CULVERT
 - RIP RAP TO BE 1" D50 GRADATION
 - SEE CHANNEL TYPICAL SECTION FOR DETAILS
 - REINSTALL MAILBOX



Jun 11, 2024 - 11:34am X:\C02\23011-00 2023-2024 Street Rehab and Drainage\Production\03-Sheets\NORTH PEAK RD\C02-23011-00-DRNG - NORTH PEAK RD - GR.dwg

MATCHLINE: STA. 18+00; SEE SHEET C29.4



	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number	---	(CN)
Storm Sewer/MH	STM ---	STM ---
Large Diam Storm Sewer/MH	STM ---	STM ---
Curb Inlet/Grate Inlet	---	---
Sanitary Sewer/MH/Cleanout	WW ---	WW ---
Large Diam Sanitary Sewer/MH	WW ---	WW ---
Water Line/Fire Hydrant/Valve	W ---	W ---
Gas	G ---	G ---
Electric	OE ---	OE ---
Phone	UT ---	UT ---
Fence	x	x
Contour	-90	-90
Easement	---	---
Slope	---	1%
Top of Pavement	---	TP 42.25
Top of Wall	---	TW 42.25
Finished Grade	---	FG 42.25
Top of Grate	---	TG 42.25
Flow Line	---	FL 42.25
Detail Number	---	5
Detail Sheet Number	---	CS.0
Limits of Construction	---	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---



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CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

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HATCH LEGEND

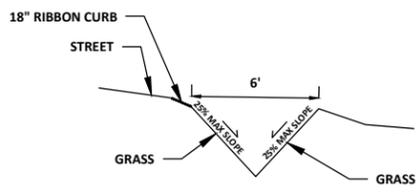
- HMAC PAVEMENT
- CONCRETE PAVEMENT
- RIP RAP

SHEET NOTES

1. CONTRACTOR TO GRADE LANDSCAPED AREA AT MINIMUM OF 5% SLOPE AWAY FROM BUILDING FOR AT LEAST 10 FEET BEYOND PERIMETER OF BUILDING

KEY NOTES

- ① MATCH EXISTING GRADE
- ② SPEED BUMPS TO BE REPLACED AFTER REPAVEMENT OF ROADWAY
- ③ PROP CONC VALLEY GUTTER PER CITY OF AUSTIN DETAIL 4365-2. REFER DRIVEWAY 2 GRADING DETAIL
- ④ PROP CONCRETE LAYDOWN CURB
- ⑤ PROP 12" RCP STM CULVERT
- ⑥ RIP RAP TO BE 1" D50 GRADATION
- ⑦ SEE CHANNEL TYPICAL SECTION FOR DETAILS
- ⑧ REINSTALL MAILBOX



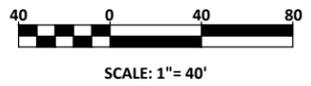
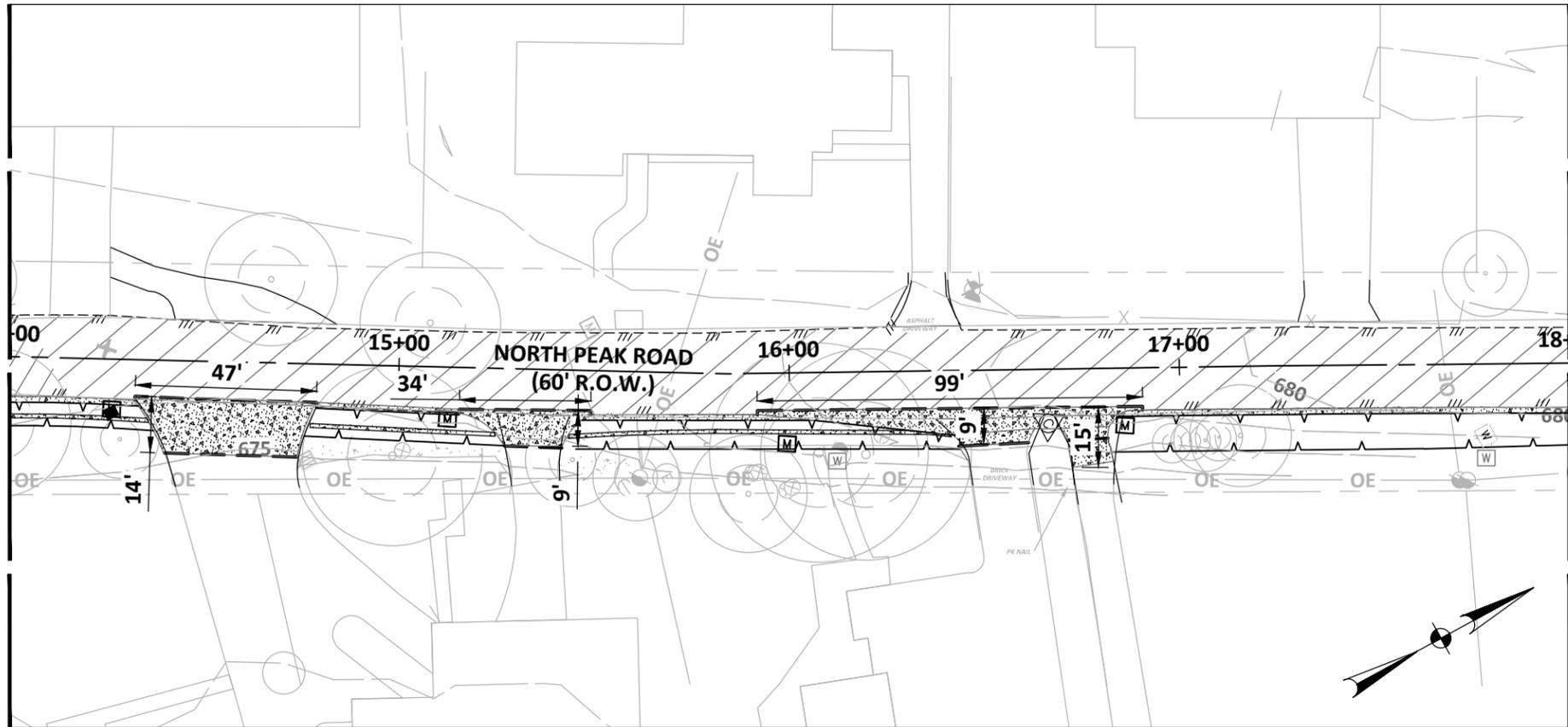
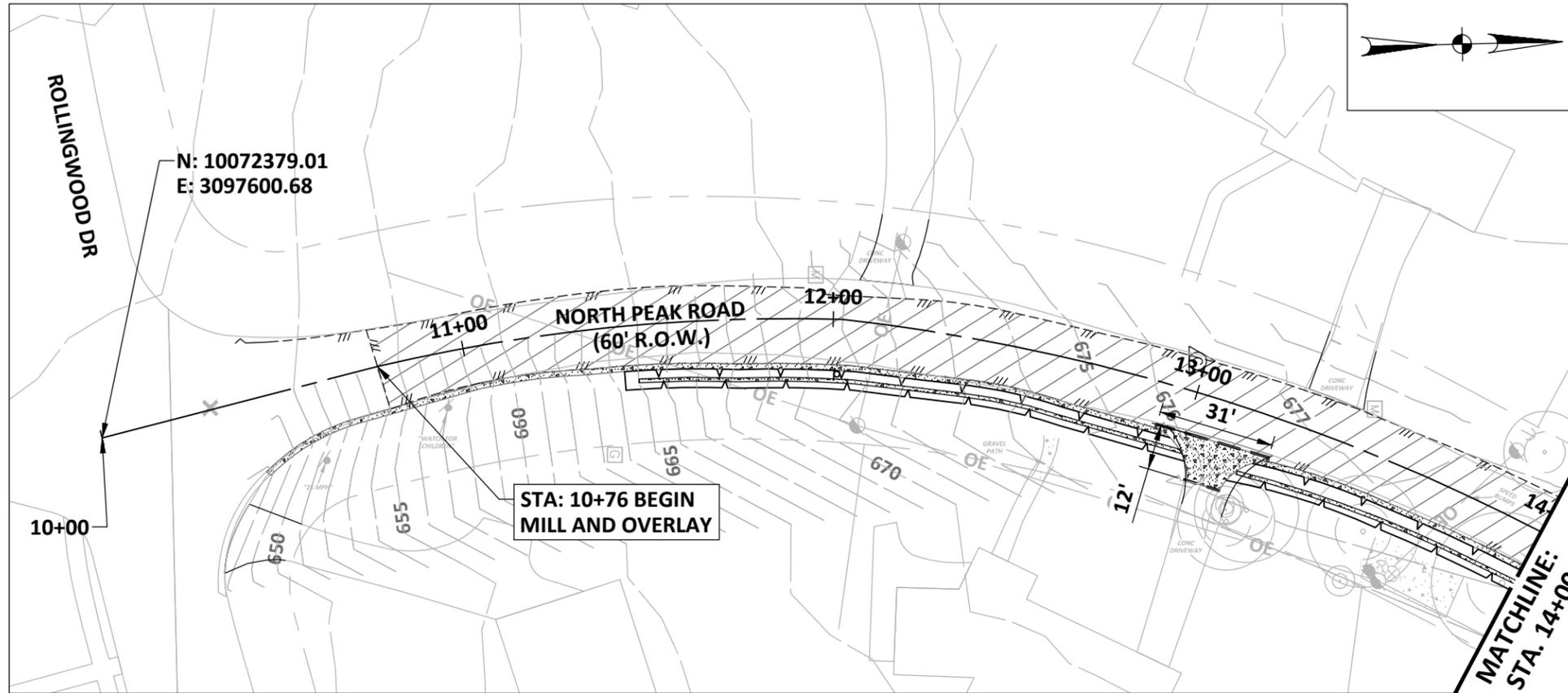
TYPICAL SECTION FOR CHANNEL: 1, B, C
1: STA. 16+83 TO STA. 17+62
B: STA. 20+57 TO STA. 21+82
C: STA. 21+82 TO STA. 22+79
NOT TO SCALE

NO.	DATE	REVISION

PROJECT NO. C02-23011-00		
DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024	

NORTH PEAK RD - GRADING PLAN

Jun 11, 2024 - 11:35am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\3-Production\03-Sheets\NORTH PEAK RD\CD2-23011-00-DRNG - NORTH PEAK RD - PAV.dwg



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704
512.330.1270

LEGEND	
EXISTING	PROPOSED
Curb	---
Edge of Pavement	---
R.O.W.	---
Curve Number	(C1)
Storm Sewer/MH	STM
Large Diam Storm Sewer/MH	STM
Curb Inlet/Grate Inlet	STM
Sanitary Sewer/MH/Cleanout	WW
Large Diam Sanitary Sewer/MH	WW
Water Line/Fire Hydrant/Valve	WW
Gas	G
Electric	OE
Phone	UF
Fence	X
Contour	-90
Easement	---
Slope	1%
Top of Pavement	TP 42.25
Top of Wall	TW 42.25
Finished Grade	FG 42.25
Top of Grate	TG 42.25
Flow Line	FL 42.25
Detail Number	5
Detail Sheet Number	CS.0
Limits of Construction	LOC
Approx Limits of Floodplain	I
Sawcut	---
Proposed Swale	---
Drum	---
Sign	---
TYPE III BARRICADE	---
DIRECTION OF TRAFFIC FLOW	---
CHANNELIZING DEVICE	---

HATCH LEGEND

- 2" MILL AND OVERLAY
- CONCRETE PAVEMENT
- HMAC PAVEMENT

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPELS Firm Registration No. 1856



06-11-2024
Susan Smith-Turrieta

NO.	DATE	REVISION

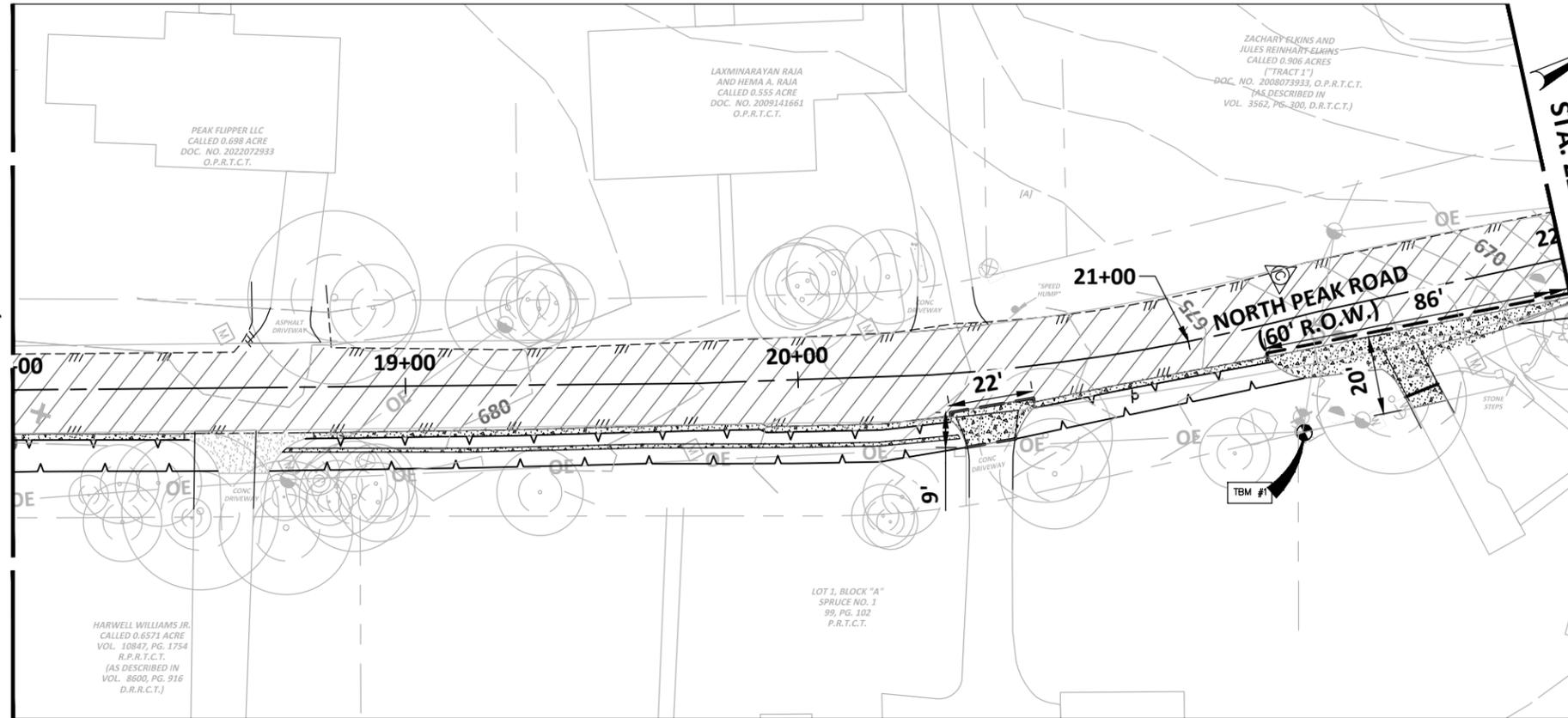
PROJECT NO.	C02-23011-00
DESIGNED BY	ZS/ESM
REVIEWED BY	SST
DRAWN BY	AC
ORIGINAL ISSUE	DATE
	06-10-2024

NORTH PEAK RD - PAVING PLAN

C29.6

Jun 11, 2024 - 11:35am X:\C02\23011\23011-00 2023-2024 Street Rehab and Drainage\9-Production\05-Sheets\NORTH PEAK RD\C02-23011-00-DRNG - NORTH PEAK RD - PAV.dwg

MATCHLINE: STA. 18+00; SEE SHEET C29.6



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704
512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		CL
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	WW	WW
Gas	---	---
Electric	OE	OE
Phone	---	---
Fence	x	x
Contour	-90	-90
Easement	---	---
Slope		1%
Top of Pavement	TP 42.25	TP 42.25
Top of Wall	TW 42.25	TW 42.25
Finished Grade	FG 42.25	FG 42.25
Top of Grate	TG 42.25	TG 42.25
Flow Line	FL 42.25	FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPELS Firm Registration No. 1856



06-11-2024

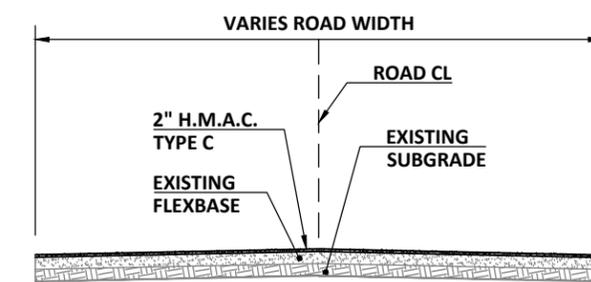
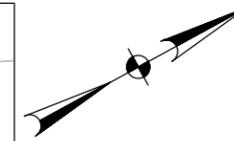
Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

HATCH LEGEND

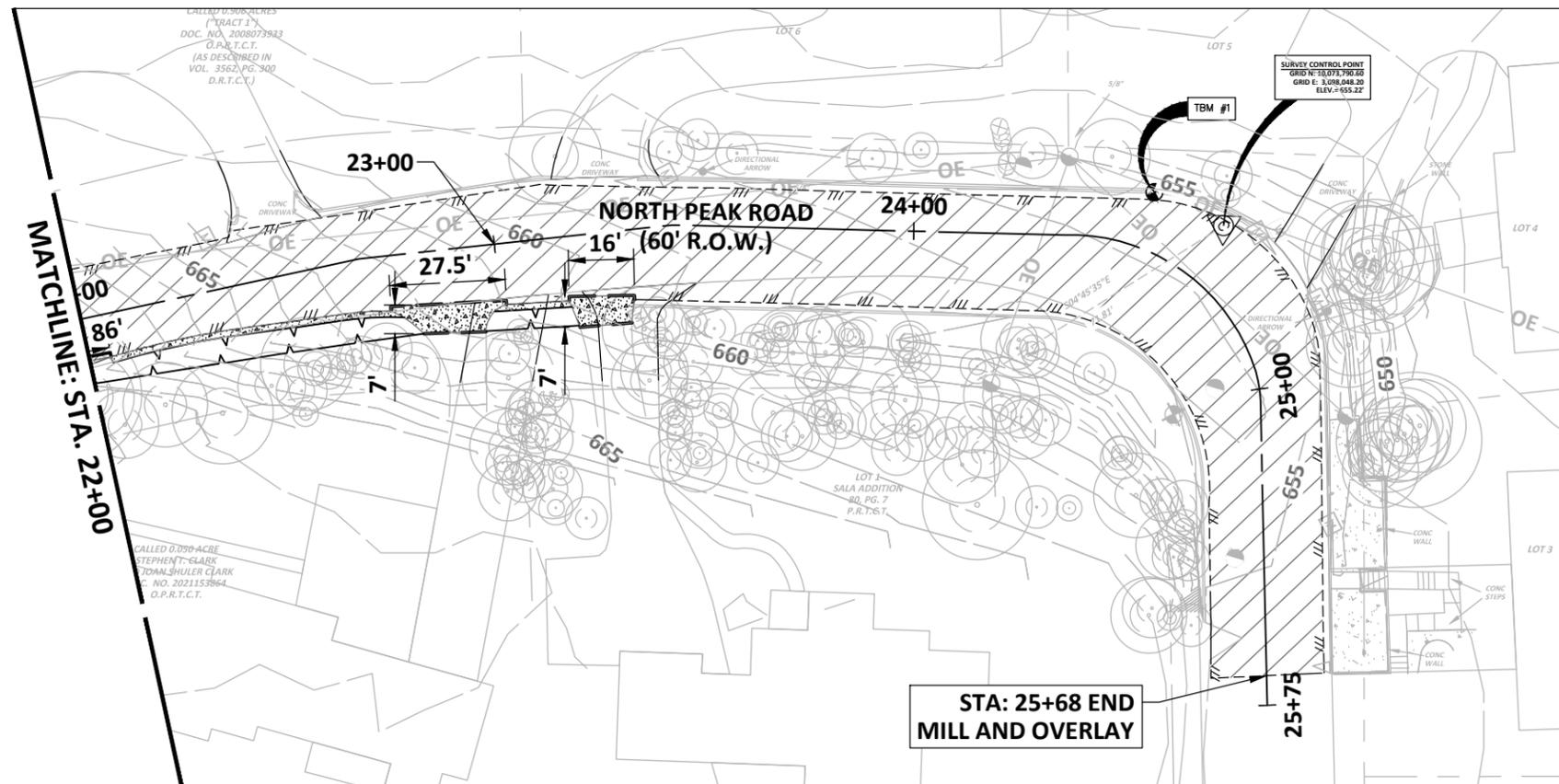
- 2" MILL AND OVERLAY
- CONCRETE PAVEMENT
- HMAc PAVEMENT



- NOTES:**
- EXISTING ROADWAY WIDTHS, GRADE AND CROWN TO BE MAINTAINED.
 - MILL AND OVERLAY SECTIONS TO USE EXISTING FLEXBASE & SUBGRADE.

TYPICAL SECTION - NORTH PEAK RD

NTS

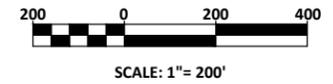
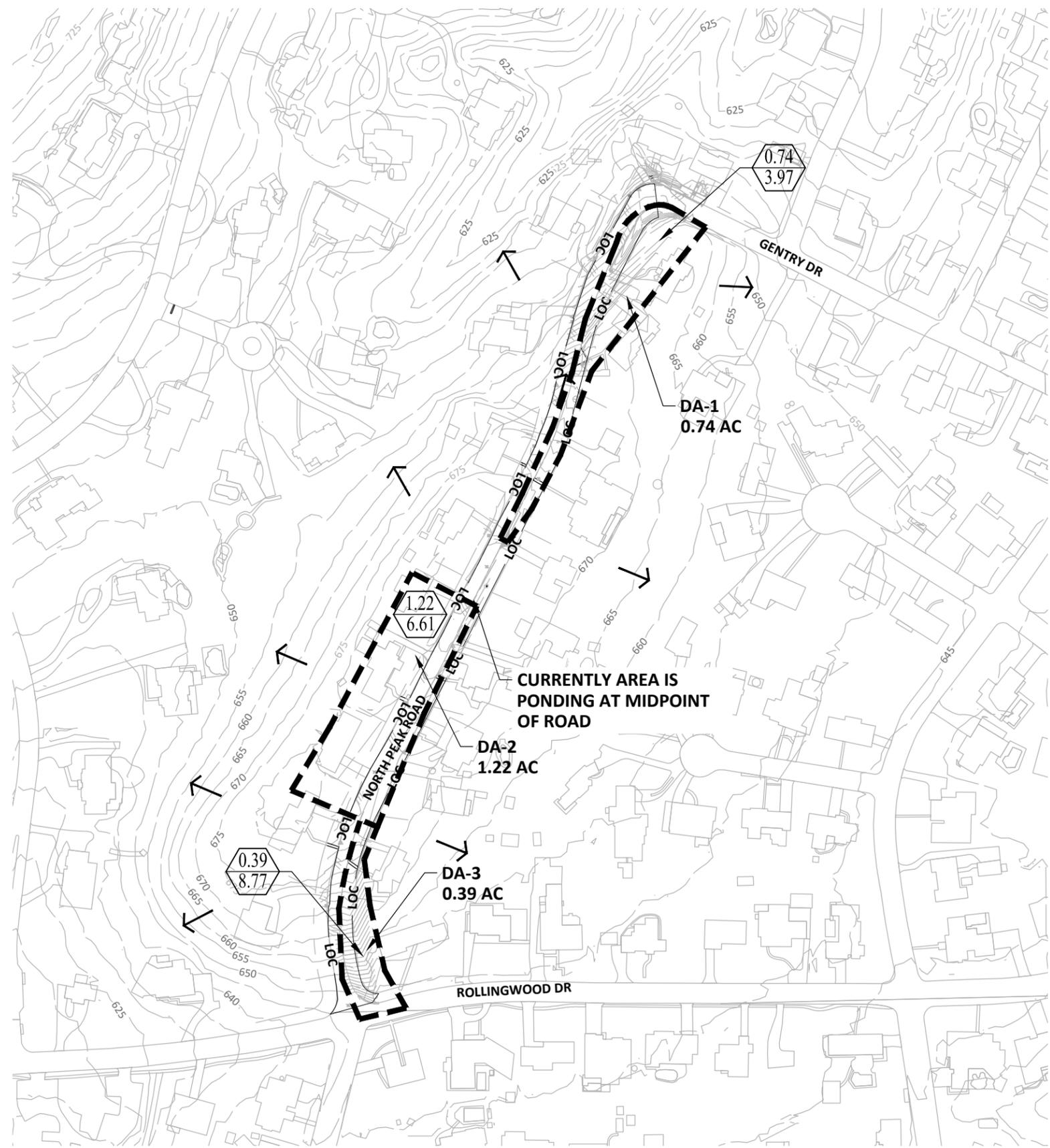


**STA: 25+68 END
MILL AND OVERLAY**

NORTH PEAK RD - PAVING PLAN

C29.7

Jun 11, 2024 - 11:35am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\NORTH PEAK RD\C02-23011-00-DRNG - NORTH PEAK RD - EDA.dwg



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401 S 1st St., Suite 600
Austin, Texas 78704
512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		(C1)
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	x	x
Contour	-90	-90
Easement	---	---
Slope		1%
Top of Pavement	*TP@L.SY	TP 42.25
Top of Wall	*TW@L.SY	TW 42.25
Finished Grade	*FG@L.SY	FG 42.25
Top of Grate	*TG@L.SY	TG 42.25
Flow Line		FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain		
Sawcut		
Proposed Swale		
Drum		
Sign		
TYPE III BARRICADE		
DIRECTION OF TRAFFIC FLOW		
CHANNELIZING DEVICE		

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPELS Firm Registration No. 1856



06-11-2024

Susan Smith-Turrieta

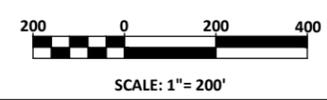
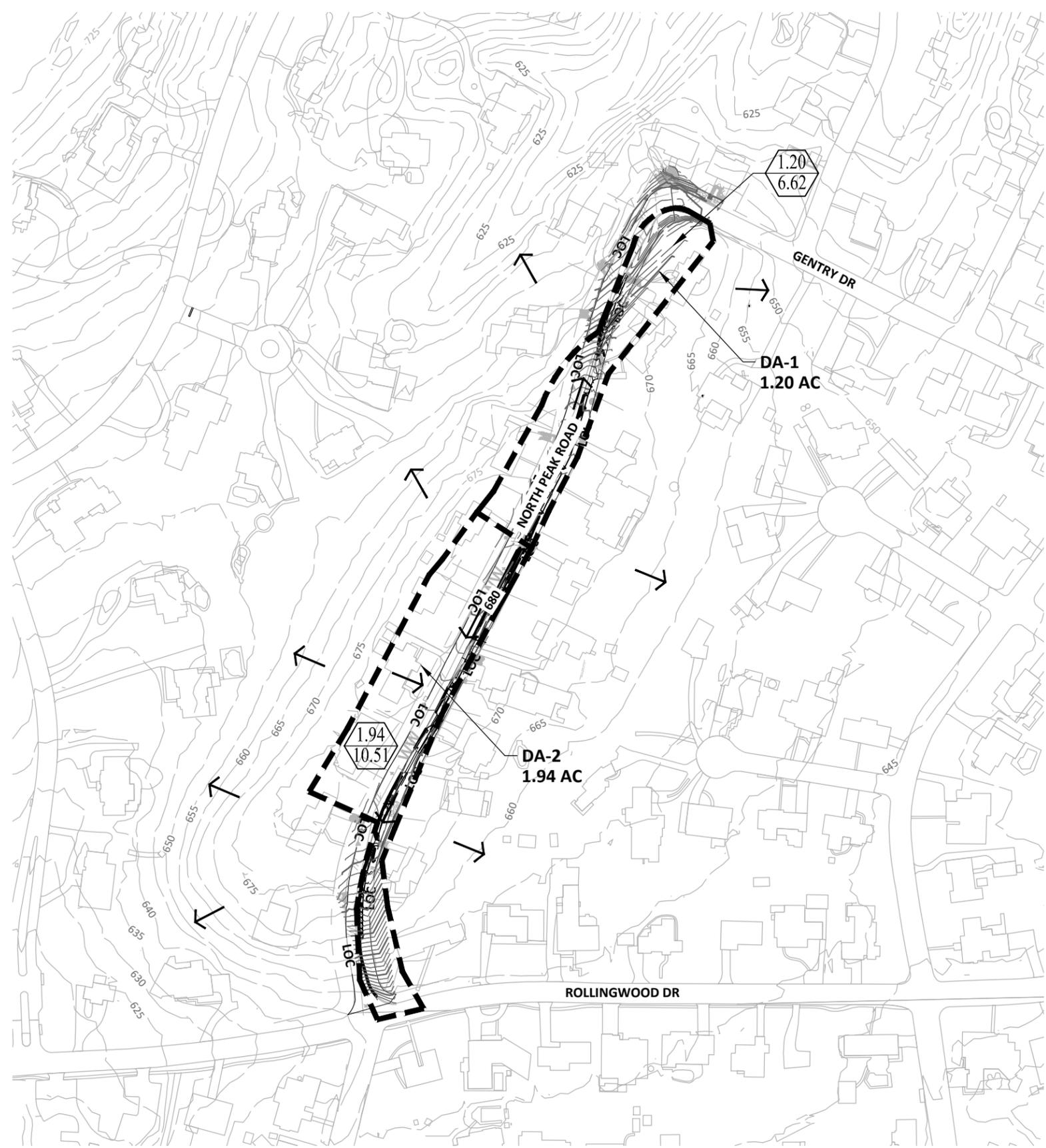
SITE DRAINAGE LEGEND	
Drainage Area Number	IV
Drainage Area Acres	0.24 AC.
Outfall Number	3
Drainage Area Boundary	---
Cumulative Area In Acres	0.21
Cumulative Flow In cfs	0.72

NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

NORTH PEAK RD - EXISTING DRAINAGE AREA MAP

Jun 11, 2024 - 11:36am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\NORTH PEAK RD\C02-23011-00-DRNG - NORTH PEAK RD - PDA.dwg



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	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		Ⓢ
Storm Sewer/MH	— STM —	— STM —
Large Diam Storm Sewer/MH	— STM —	— STM —
Curb Inlet/Grate Inlet	— STM —	— STM —
Sanitary Sewer/MH/Cleanout	— WW —	— WW —
Large Diam Sanitary Sewer/MH	— WW —	— WW —
Water Line/Fire Hydrant/Valve	— W —	— W —
Gas	— G —	— G —
Electric	— OE —	— OE —
Phone	— UT —	— UT —
Fence	— X —	— X —
Contour	— 90 —	— 90 —
Easement	---	---
Slope		1%
Top of Pavement	*TP 42.25	TP 42.25
Top of Wall	*TW 42.25	TW 42.25
Finished Grade	*FG 42.25	FG 42.25
Top of Grate	*TG 42.25	TG 42.25
Flow Line		FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	---	---
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---

SITE DRAINAGE LEGEND

Drainage Area Number	IV
Drainage Area Acres	0.24 AC.
Outfall Number	3
Drainage Area Boundary	---
Cumulative Area In Acres	0.21
Cumulative Flow In cfs	0.72

**CITY OF WEST LAKE
 HILLS STREET REHAB
 & DRAINAGE
 IMPROVEMENTS**

Walter P. Moore and Associates, Inc.
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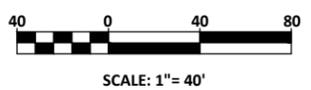
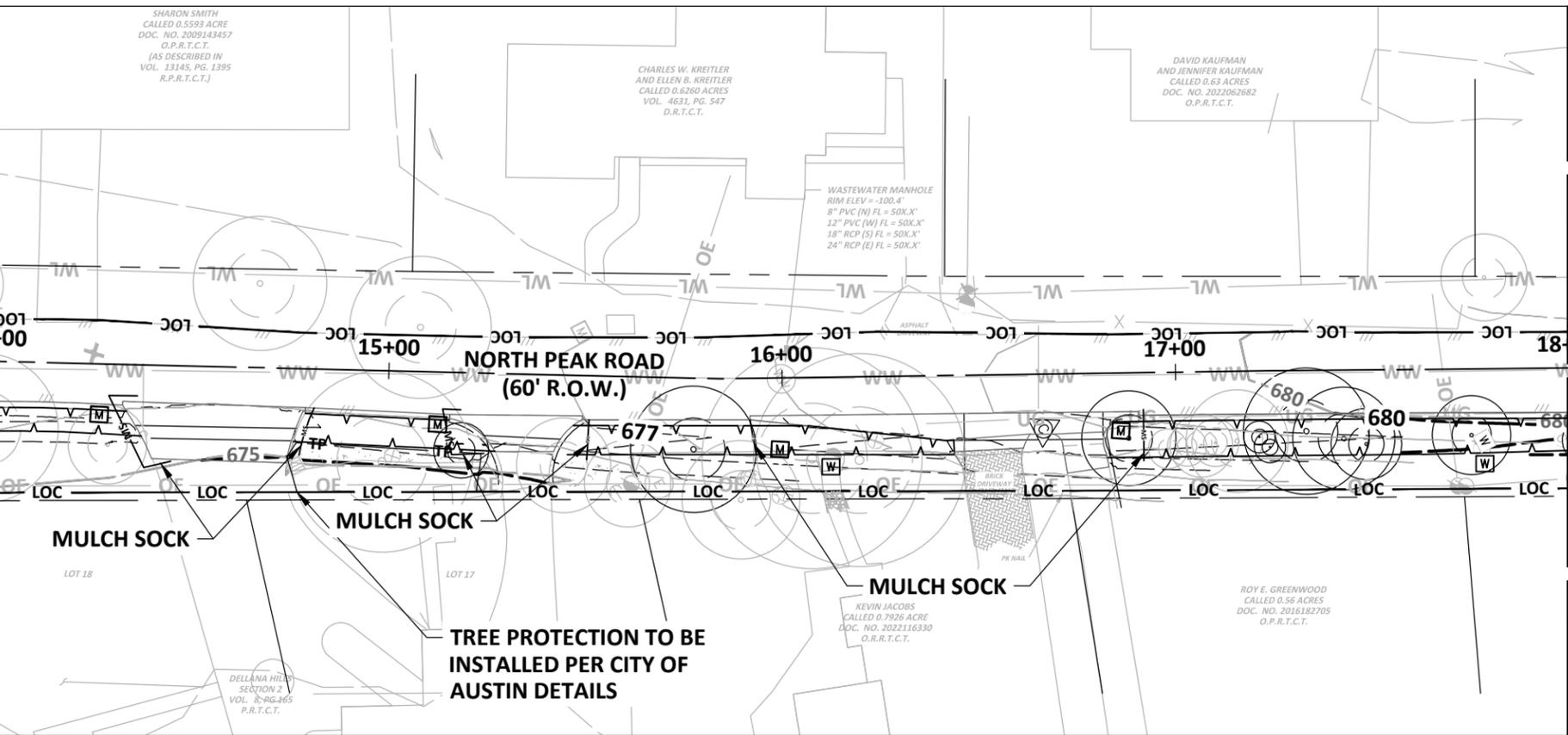
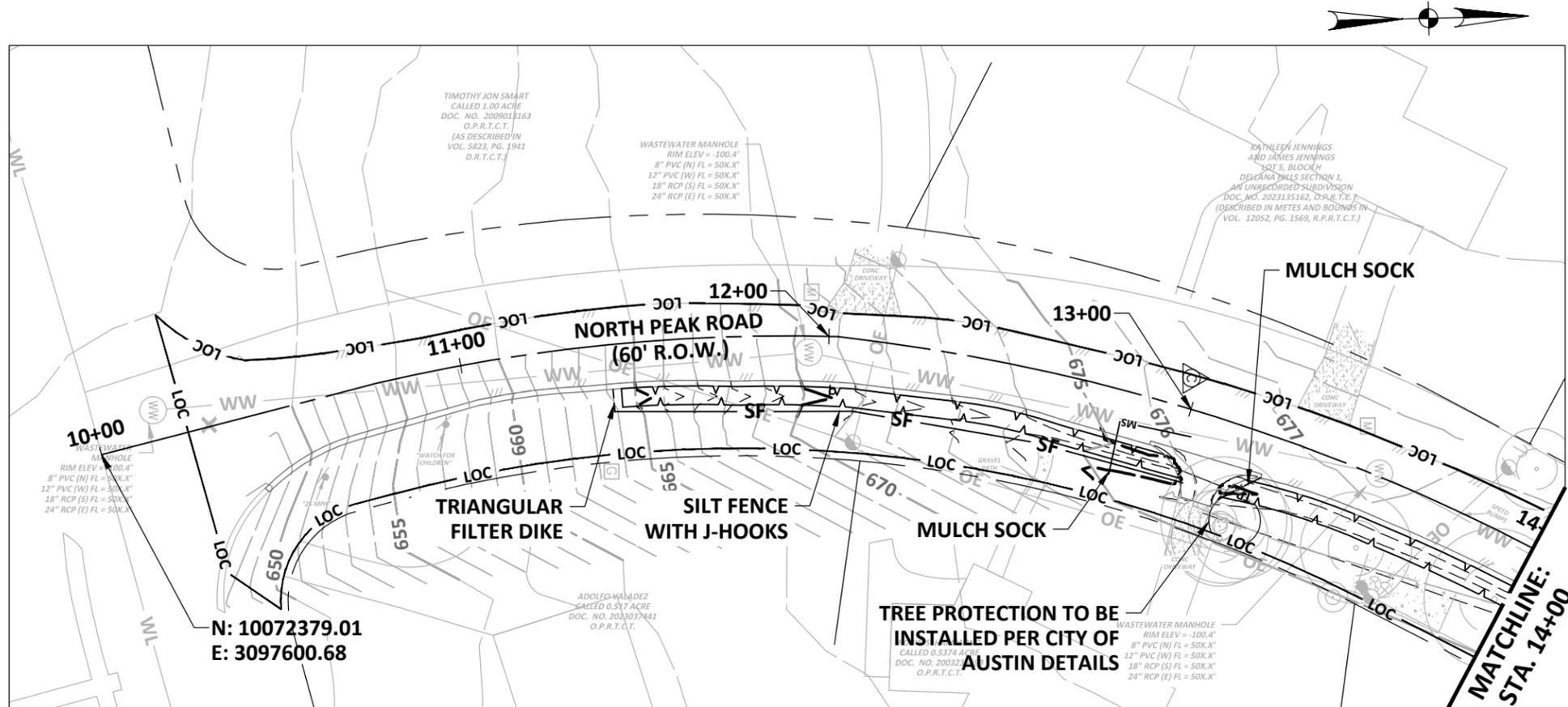
06-11-2024
 Susan Smith-Turrieta

NO.	DATE	REVISION

PROJECT NO.	C02-23011-00	
DESIGNED BY	REVIEWED BY	DRAWN BY
ZS/ESM	SST	AC
ORIGINAL ISSUE	DATE	
	06-10-2024	

**NORTH PEAK RD -
 PROPOSED DRAINAGE AREA
 MAP**

Jun 11, 2024 - 11:36am X:\C02\2023\23011-00\2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\NORTH PEAK RD\C02-23011-00-DRNG - NORTH PEAK RD - ECS.dwg



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 Austin, Texas 78704
 512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		(C1)
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement		
Slope		1%
Top of Pavement		TP 42.25
Top of Wall		TW 42.25
Finished Grade		FG 42.25
Top of Grate		TG 42.25
Flow Line		FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain		
Sawcut		
Proposed Swale		
Drum		
Sign		
TYPE III BARRICADE		
DIRECTION OF TRAFFIC FLOW		
CHANNELIZING DEVICE		

HATCH LEGEND:

	CONSTRUCTION ENTRANCE
	STAGING AND SPOILS AREA
	CONCRETE WASHOUT

EROSION CONTROL LEGEND

	REINFORCED FILTER FABRIC BARRIER
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE
	TREE PROTECTION

SHEET NOTES

- ALL AFFECTED INLETS SHALL BE PROTECTED BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- SEDIMENT AND EROSION CONTROLS INCLUDING NON-STORMWATER DISCHARGES SHALL BE AS PER THE SPECIFICATIONS.

EROSION CONTROL NOTES

- THIS PROJECT IS SUBJECT TO ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTION DISCHARGE ELIMINATIONAL SYSTEM (NPDES) CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO EXECUTE A NOTICE OF INTENT AND IMPLEMENT THE POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS AND COMPLY WITH ALL REPORTING AND INSPECTION REQUIREMENTS SET FORTH IN THE NPDES REGULATIONS.
- REINFORCED SILT FENCES AND INLET PROTECTION TO BE PROVIDED DURING CONSTRUCTION OF THIS PROJECT, AND REMOVED UPON CONSTRUCTION COMPLETION (SEE SPECS. AND DETAILS).
- CONTRACTOR TO PROVIDE STABILIZED CONSTRUCTION EXIT PER DETAIL AT ALL POINTS OF EGRESS DURING CONSTRUCTION.
- PRIOR TO REMOVAL OF EROSION CONTROL DEVICES, ALL AREAS DISTURBED ARE TO BE HYDRO-MULCH SEEDED.
- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
 TBPELS Firm Registration No. 1856



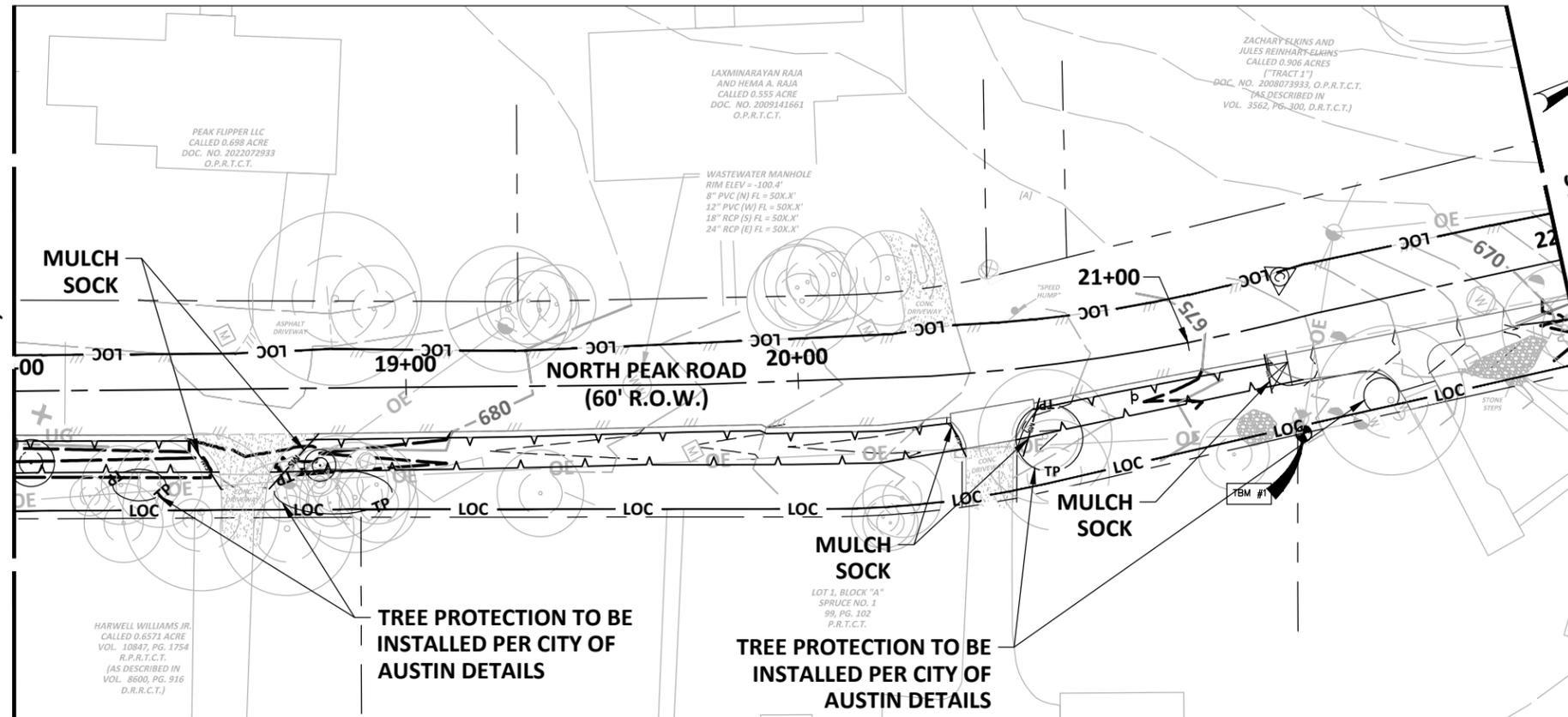
NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE		DATE 06-10-2024	

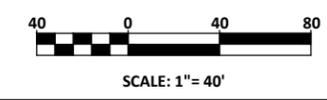
NORTH PEAK RD - EROSION CONTROL PLAN

C30.0

MATCHLINE: STA. 18+00; SEE SHEET C30.0



MATCHLINE:
STA. 22+00



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704
512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number	---	---
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	---	---
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement	---	---
Slope	---	1%
Top of Pavement	TP	TP 42.25
Top of Wall	TW	TW 42.25
Finished Grade	FG	FG 42.25
Top of Grate	TG	TG 42.25
Flow Line	FL	FL 42.25
Detail Number	---	5
Detail Sheet Number	---	C5.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPELS Firm Registration No. 1856



NO.	DATE	REVISION

HATCH LEGEND:

	CONSTRUCTION ENTRANCE
	STAGING AND SPOILS AREA
	CONCRETE WASHOUT

EROSION CONTROL LEGEND

	REINFORCED FILTER FABRIC BARRIER
	MULCH SOCK
	TRIANGULAR FILTER DIKE
	SILT FENCE
	TREE PROTECTION

SHEET NOTES

- ALL AFFECTED INLETS SHALL BE PROTECTED BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- SEDIMENT AND EROSION CONTROLS INCLUDING NON-STORMWATER DISCHARGES SHALL BE AS PER THE ECIFICATIONS.

EROSION CONTROL NOTES

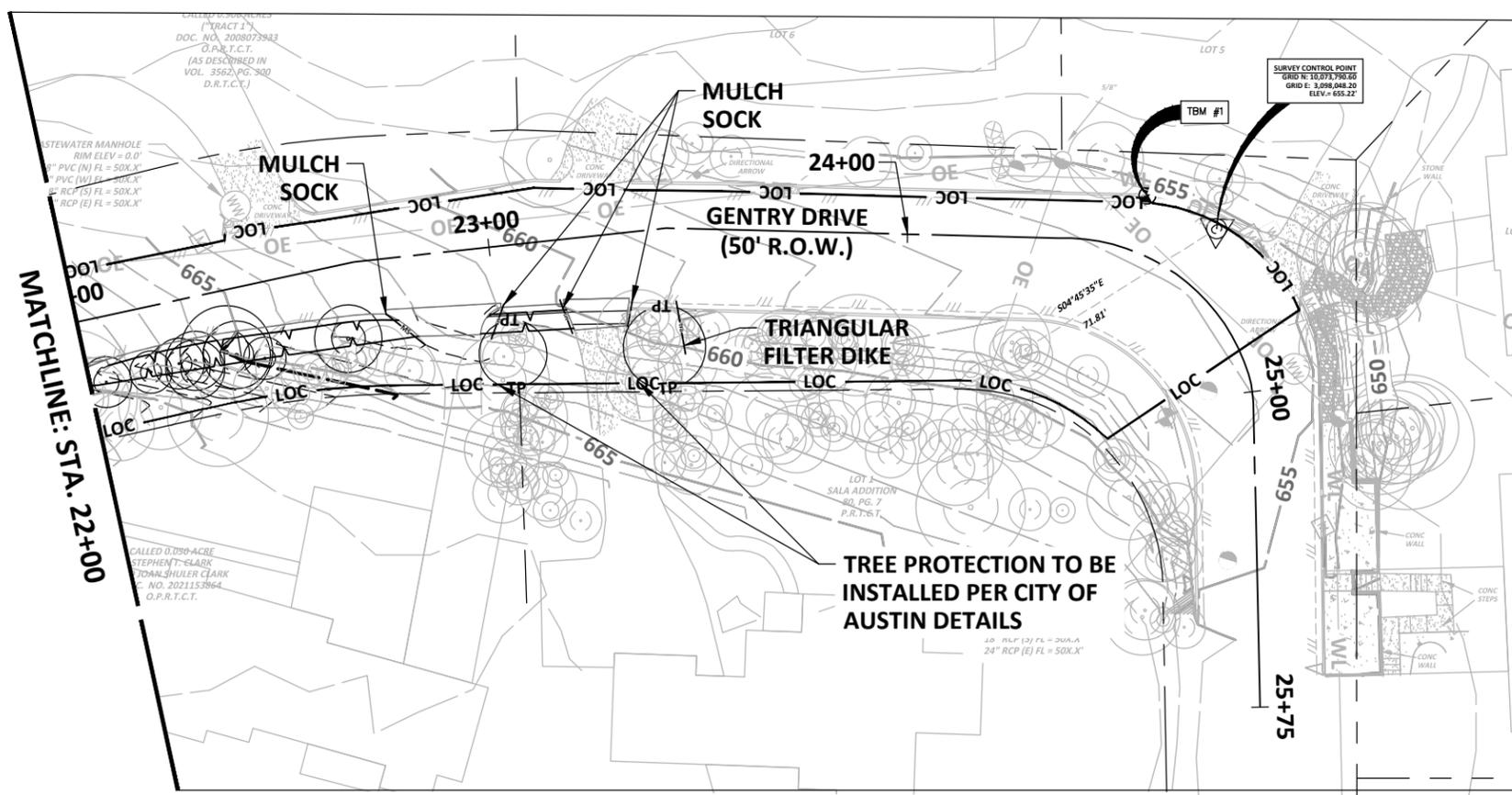
- THIS PROJECT IS SUBJECT TO ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTION DISCHARGE ELIMINATIONAL SYSTEM (NPDES) CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO EXECUTE A NOTICE OF INTENT AND IMPLEMENT THE POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS AND COMPLY WITH ALL REPORTING AND INSPECTION REQUIREMENTS SET FORTH IN THE NPDES REGULATIONS.
- REINFORCED SILT FENCES AND INLET PROTECTION TO BE PROVIDED DURING CONSTRUCTION OF THIS PROJECT, AND REMOVED UPON CONSTRUCTION COMPLETION (SEE SPECS. AND DETAILS).
- CONTRACTOR TO PROVIDE STABILIZED CONSTRUCTION EXIT PER DETAIL AT ALL POINTS OF EGRESS DURING CONSTRUCTION.
- PRIOR TO REMOVAL OF EROSION CONTROL DEVICES, ALL AREAS DISTURBED ARE TO BE HYDRO-MULCH SEEDED.
- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND/OR TENANTS IF PROPERTY ACCESS WILL BE LIMITED.

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

NORTH PEAK RD - EROSION CONTROL PLAN

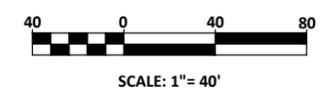
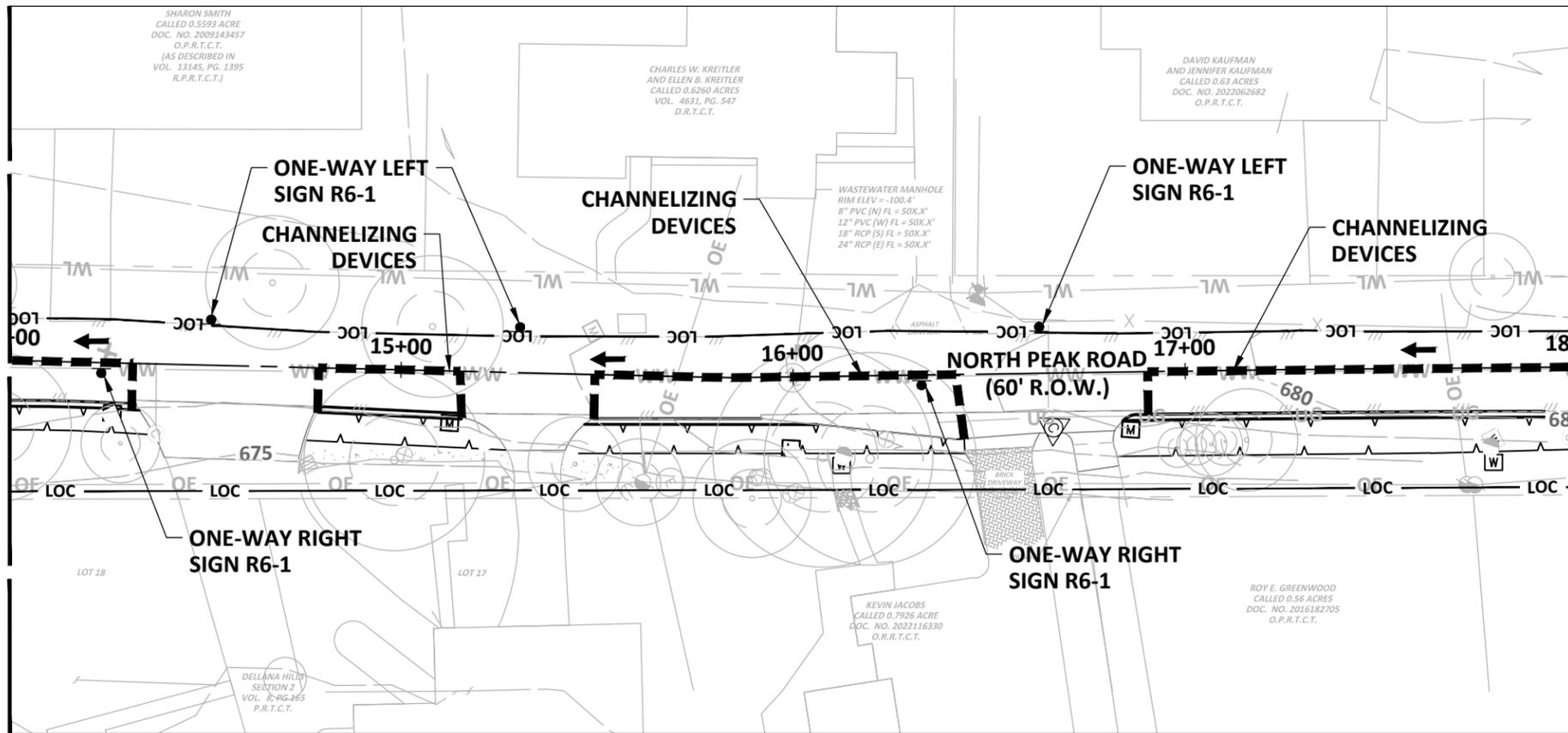
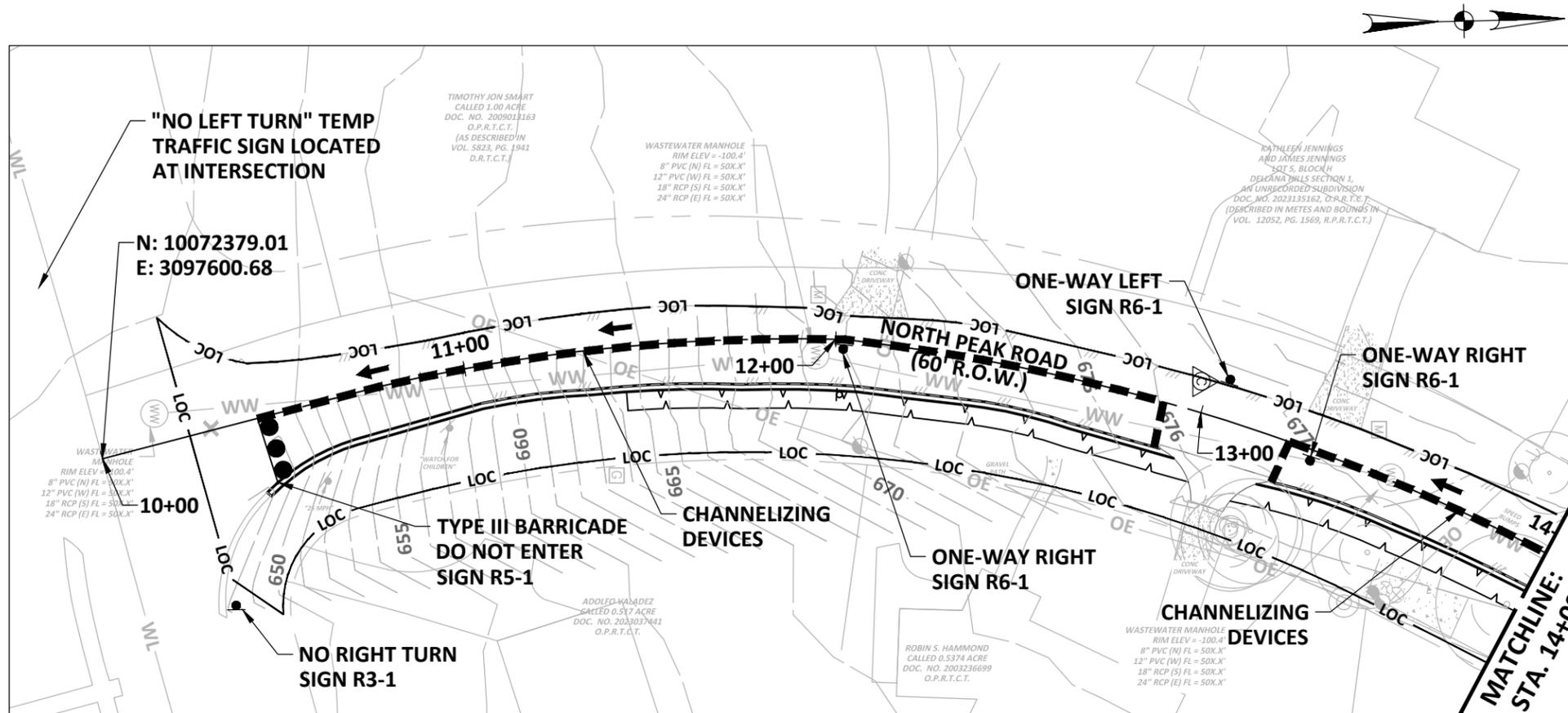
C30.1

MATCHLINE: STA. 22+00



MATCHLINE:
STA. 25+75

Jun 11, 2024 - 11:37am X:\C02\2023\23011-00 2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\NORTH PEAK RD\C02-23011-00-DRNG - NORTH PEAK RD - TRF.dwg



Walter P. Moore and Associates, Inc.
401 S 1st St., Suite 600
Austin, Texas 78704
512.330.1270

	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number		(C1)
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	STM	STM
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	X	X
Contour	-90	-90
Easement		
Slope		1%
Top of Pavement		TP 42.25
Top of Wall		TW 42.25
Finished Grade		FG 42.25
Top of Grate		TG 42.25
Flow Line		FL 42.25
Detail Number		5
Detail Sheet Number		CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain		
Sawcut		
Proposed Swale		
Drum		
Sign		
TYPE III BARRICADE		
DIRECTION OF TRAFFIC FLOW		
CHANNELIZING DEVICE		

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

Walter P. Moore and Associates, Inc.
TBPELS Firm Registration No. 1856



TRAFFIC MARKING NOTES

- BARRICADES BUILT TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
- ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION.
- ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREET AND BRIDGES AND THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITIONS.

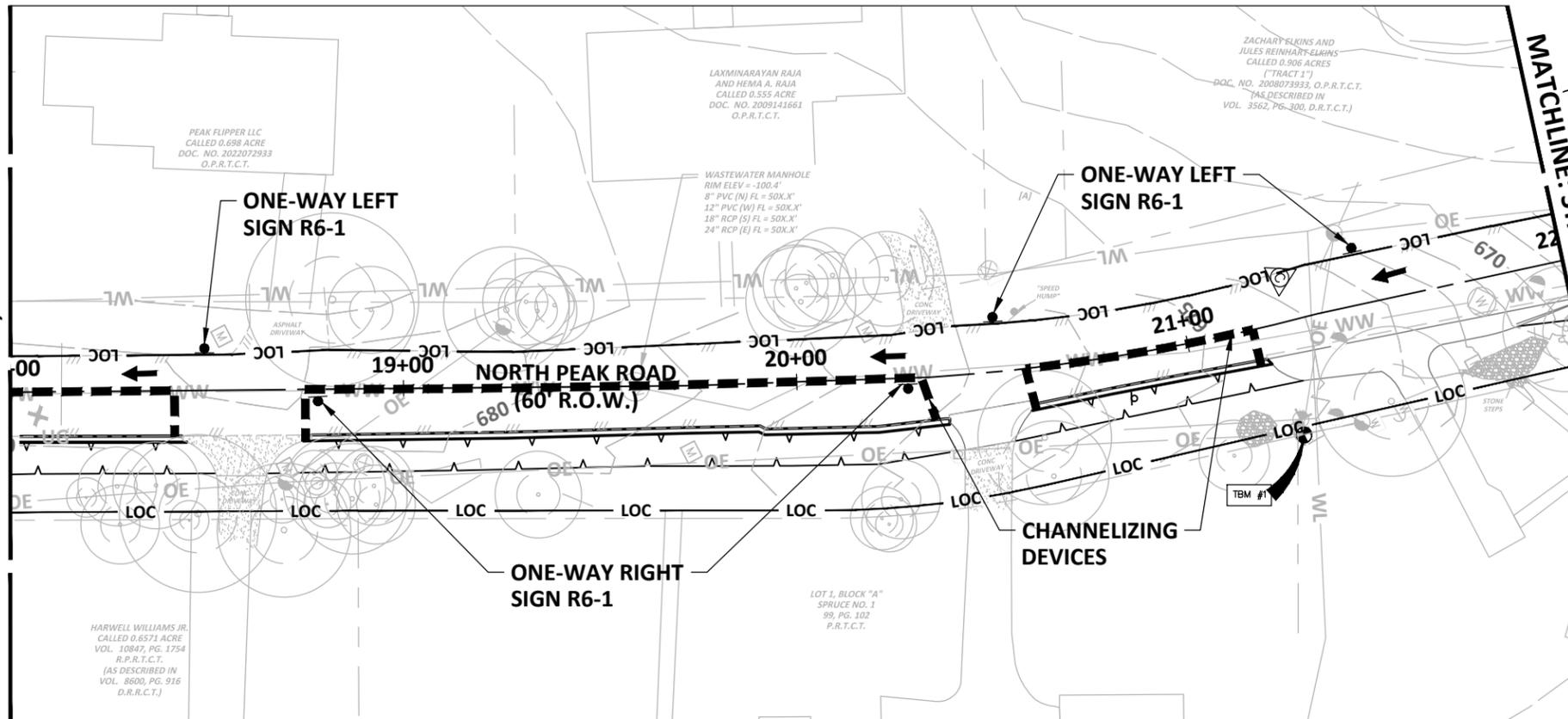
NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

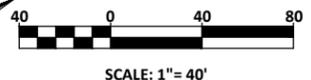
NORTH PEAK RD - TRAFFIC CONTROL PLAN

Jun 11, 2024 - 11:37am X:\C02\2023\23011-00\2023-2024 Street Rehab and Drainage\9-Production\03-Sheets\NORTH PEAK RD\C02-23011-00-DRNG - NORTH PEAK RD - TRF.dwg

MATCHLINE: STA. 18+00; SEE SHEET C30.2



MATCHLINE: STA. 22+00



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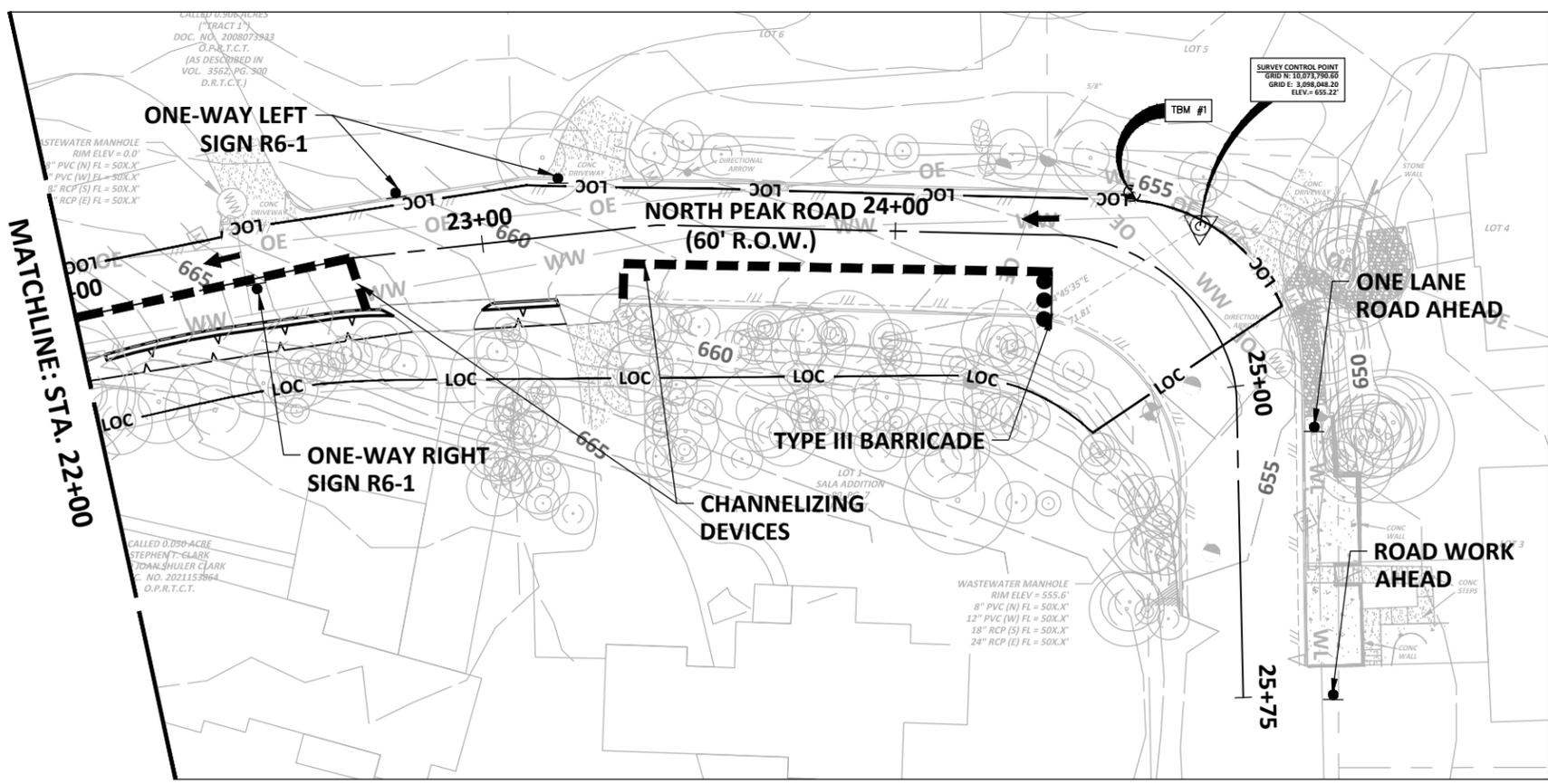
	EXISTING	PROPOSED
Curb	---	---
Edge of Pavement	---	---
R.O.W.	---	---
Curve Number	---	---
Storm Sewer/MH	STM	STM
Large Diam Storm Sewer/MH	STM	STM
Curb Inlet/Grate Inlet	---	---
Sanitary Sewer/MH/Cleanout	WW	WW
Large Diam Sanitary Sewer/MH	WW	WW
Water Line/Fire Hydrant/Valve	W	W
Gas	G	G
Electric	OE	OE
Phone	UT	UT
Fence	x	x
Contour	-90	-90
Easement	---	---
Slope	---	1%
Top of Pavement	TP 42.25	TP 42.25
Top of Wall	TW 42.25	TW 42.25
Finished Grade	FG 42.25	FG 42.25
Top of Grate	TG 42.25	TG 42.25
Flow Line	FL 42.25	FL 42.25
Detail Number	5	5
Detail Sheet Number	CS.0	CS.0
Limits of Construction	LOC	LOC
Approx Limits of Floodplain	---	---
Sawcut	---	---
Proposed Swale	---	---
Drum	---	---
Sign	---	---
TYPE III BARRICADE	---	---
DIRECTION OF TRAFFIC FLOW	---	---
CHANNELIZING DEVICE	---	---

CITY OF WEST LAKE HILLS STREET REHAB & DRAINAGE IMPROVEMENTS

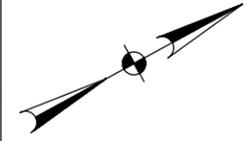
TRAFFIC MARKING NOTES

- BARRICADES BUILT TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
- ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION.
- ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREET AND BRIDGES AND THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITIONS.

Walter P. Moore and Associates, Inc.
TBPELS Firm Registration No. 1856



MATCHLINE: STA. 22+00



NO.	DATE	REVISION

PROJECT NO. C02-23011-00	DESIGNED BY ZS/ESM	REVIEWED BY SST	DRAWN BY AC
ORIGINAL ISSUE	DATE 06-10-2024		

NORTH PEAK RD - TRAFFIC CONTROL PLAN

Geologic Assessment (TCEQ Form 0585)

Tab 3

Attachment A
Attachment B
Attachment C
Attachment D

Geologic Assessment Table
Stratigraphic Colum
Site Geology
Site Geology Map(s)

GEOLOGIC ASSESSMENT

FOUR RIGHT-OF-WAY AREAS
WEST LAKE HILLS, TEXAS 78746

Prepared for:



Rock Engineering & Testing Laboratory - A UES Company
7 Roundville Lane
Round Rock, TX 78664

16 February 2024



Quintin McNulty, P.E.
Principal

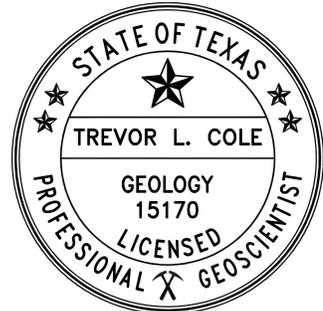


Trevor L. Cole, P.G.
Project Geologist
Texas P.G. No. 15170, F-50464
Signed electronically on 2/16/2024

PN: 1228.001.001



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Trevor Cole

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APPENDICES

APPENDIX A GEOLOGIC ASSESSMENT APPLICATION FORM
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1 OBJECTIVES AND PURPOSE

SQ Environmental, LLC (SQE) conducted a Geologic Assessment of four right-of-way (ROW) areas located in West Lake Hills, Travis County, Texas. The four ROW areas (subject property) evaluated as part of this Geologic Assessment totaled approximately 4.2-acres and were located near the intersections of:

- Rollingwood Drive (Dr) and Las Lomas Dr,
- Rollingwood Dr and North (N) Peak Road (Rd),
- Hillcrest Court (Ct) and Bent Tree Ct, and
- Oak Ridge Dr and Cedar Park Dr.

The ROW areas are being considered for infrastructure improvement activities. Each area was evaluated by a registered Texas Professional Geologist in accordance with the Edwards Aquifer Rules described in Texas Administrative Code (TAC) Chapter 213 and Texas Commission on Environmental Quality (TCEQ) Guidance Document TCEQ-0585, *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (TCEQ, 2004). As such, information collected during the site visit performed on 7 February 2024 is included in the Geologic Assessment form and summarized in the Geologic Assessment Table which are included as **Appendix A** and **Attachment A**, respectively.

1.1 PROPERTY LOCATION AND DESCRIPTION

The subject property consists of four discontinuous ROW areas which are located approximately 3.0 miles west of downtown Austin, Texas and approximately 1.0 miles west of the Colorado River. More specifically, the ROW areas are located north of Bee Cave Road, south of the Ulrich Water Treatment Plant and are within a 0.5-mile radius of each other. Each ROW area has been designated as Areas A through Area D and the location of each area is shown on **Figure 1**.

The four areas are generally located in residential sections of West Lake Hills and are being considered for infrastructure improvement activities. The layout of Areas A, B, and C are shown on **Attachment D.1** and Area D is shown on **Attachment D.2**. These areas are described in more detail below.

- **Area A:** This approximate 0.79-acre area commences at the intersection of Rollingwood Dr and Las Lomas Dr and terminates north on Las Lomas Dr after approximately 275 feet. The ROW area measured approximately 125 feet by 275 feet and consisted primarily of two, two-lane roadways, roadway shoulders, stormwater inlets (denoted as MB-1 and MB-2) and stormwater box culverts (MB-3 and MB-4). Additionally, a creek was located on the western side of Las Lomas Dr (denoted as O-1) and discharged south of Rollingwood Dr, through a concrete stormwater box culvert. The channel and banks of the northern section of the creek (west of Las Lomas Dr) were infilled with limestone cobbles and clay and the discharge rate of the creek was relatively slow. As mentioned, the creek flowed south into a concrete lined stormwater box culvert underneath Rollingwood Dr. The southern discharge area was observed infilled with limestone cobbles, boulders, leaf litter, and vegetation and the water appeared stagnant and ponded.
- **Area B:** This approximate 2.4-acre area is located wholly on N Peak Rd and commences near the intersection of Rollingwood Dr and N Peak Rd and terminates approximately 1,400 feet near Gentry Dr. The area measured approximately 75 feet by 1,400 feet and consisted primarily of a two-lane asphalt roadway with minimal roadway shoulder. Colluvium consisting of limestone cobbles and boulders were exposed on sections of the roadway shoulder. In-situ geologic formations were not observed. Manmade utilities such as sanitary sewer manholes were observed and denoted as MB-5 through MB-8 on Attachment D.1.

- Area C: This approximate 0.52-acre area is located on Bent Tree Ct and commences near the intersection of Hillcrest Ct and terminates at the cul-de-sac on the western extent of Bent Tree Ct. The area measured approximately 75 feet by 300 feet and consisted primarily of a residential “No Outlet” asphalt street with stormwater drainage infrastructure (MB-9), a retaining wall and roadway shoulder. An approximately 3-foot-tall stone retaining wall was observed on the southern side of Bent Tree Ct. In-situ geologic features were not observed.
- Area D: This approximate 0.52-acre area is located south of the intersection of Forest View Dr and Cedar Park Dr and measures approximately 75 feet by 300 feet. This area consisted of a residential road (Cedar Park Dr) with minimal roadway shoulder. Adjacent west to Cedar Park Dr was a concrete drainage channel, stormwater inlet (MB-10), and culvert (MB-12). Adjacent east to Cedar Park Dr was a stormwater inlet (MB-11), culvert, dry ditch (O-2) and in-situ limestone bedrock (O-3). The ditch was infilled with boulder sized limestone and leaf litter. As such, in-situ geologic features within the stream channel were not ascertained. The limestone bedrock outcropping upstream of the ditch was observed honeycombed in areas. However, no significant porosity was observed which could represent a conduit from the surface to sub surface.

The subject property is located within the Edwards Aquifer Recharge Zone (EA RZ), which is an approximately 1,250 square mile area comprised of highly faulted and fractured Edwards Limestone bedrock. The Recharge Zone is defined by areas where surface water is likely to enter the subsurface through conduits of exposed Edwards Limestone bedrock containing faults, fractures, sinkholes, swallow holes, solution cavities, or man-made features. The location of the Recharge Zone in relation to the subject property, within Travis County is presented in **Figure 2**.

1.2 REGULATORY FRAMEWORK

Regulated activities such as construction or installation of buildings, utility stations, utility lines or underground storage systems within the boundaries of the Edwards Aquifer Recharge Zone requires compliance with the Edwards Aquifer Rules as described in 30 TAC Chapter 213 Subchapter A (§213.3). These rules are intended to protect the Edwards Aquifer and hydraulically connected surface streams. In general, regulated activities do not include clearing of vegetation, agricultural activities, routine maintenance of existing structures, resurfacing of paved roads, parking lots, sidewalks, or other impervious surfaces, building of single-family homes, or building fences. Specific regulated activities that are considered exempt include installation of natural gas lines, telephone lines, electric lines, and water lines. It should be noted that temporary erosion and sedimentation controls are still required for exempted activities.

It is SQE’s understanding that planned infrastructure improvement activities will involve resurfacing of existing paved roads and potential replacement of stormwater culverts. If the planned activities have the potential to alter the topographic, geologic, or recharge characteristics of the site, these activities would not be considered exempt, and an Edwards Aquifer Protection Plan (EAPP) and Water Pollution Abatement Plan (WPAP) would be required in accordance with 30 TAC 213. This Geologic Assessment would satisfy portions of WPAP.

2 GEOLOGIC DESCRIPTION

2.1 SITE TOPOGRAPHY AND GEOLOGY

The topographic surface of the subject property varies across each area. Generally, Areas A and Area B are sloped towards the south and Areas C and Area D are sloped towards the east with elevations ranging from 630 to 695 ft above mean seal level. For the purposes of this Geologic Assessment, the topography of Areas A and Area B is considered “drainage” and “hilltop,” respectively. The topography of Areas C and Area D is considered “hillside.” The location of the subject property is depicted on a United States Geological Survey (USGS) 7.5-minute topographic map on **Figure 1**. Based on this map, the closest surface water feature to the subject property is a small lake located approximately 500 feet northwest of Area A. The lake appears to discharge into a creek which runs through Area A towards the south, and ultimately into the Colorado River located approximately 1.0 miles east to southeast. No additional surface water features were identified near the subject property.

According to the Geologic Atlas of Texas Digital GIS Quadrangle – Southeast Texas, the surface at each ROW area is located within the Edwards Limestone formation (Ked) of Early Cretaceous age. The USGS describes the Edwards Limestone as an important aquifer where chemical weathering zones have created “honeycombed” and cavernous features. Additionally, the USGS describes the Edwards Limestone as fine-grained dolostone to limestone with chert nodules with a thickness ranging from 60 to 350 feet. The next closest geologic unit is the Georgetown Limestone and Del Rio Clay and (Kdg; undivided) located approximately 1,000 feet south of Area A. The Bureau of Economic Geology at The University of Texas at Austin (Bureau) describes the Georgetown Limestone as thin interbeds of gray to tan, fossiliferous fine-grained limestone, marly limestone and marl. The Bureau describes the Del Rio Clay as composed of dark olive or blueish gray, gypsiferous clay and marl of approximately 75 feet thickness.

Based on the Environmental Geology of the Austin Area Geologic Map published by the Bureau in 1976, the Mount Bonnell normal fault is located approximately one mile west of the subject property. The Mount Bonnell fault is a prominent fault in the Austin area and trends approximately 15 miles north-northeast and is located approximately 1.25 miles west of the subject property. This fault is part of the larger Balcones Fault Zone which extends from Dallas/Fort Worth to Del Rio, Texas. The downthrown block/ hanging wall of the Mount Bonnell fault is on the east side and has a documented vertical throw of approximately 600 feet. According to the 1976 Geologic Map, smaller synthetic normal faults pass through the subject property in Areas A and B.

A stratigraphic column of the bedrock within the subject property and surrounding areas is provided in **Attachment B**. The Ked geologic unit and relevant faults are depicted in **Attachment D.3** and **Attachment D.4**.

2.2 SITE HYDROLOGY

The Texas Parks and Wildlife Department Texas Watershed Viewer indicates that each of the ROW areas are located within the Lake Austin – Town Lake watershed. Based on topographic contours shown on **Figure 1**, precipitation falling on Area A is expected to flow south and west towards a creek located on the west side of Las Lomas Dr. The creek ultimately flows south and then east towards the Colorado River. Precipitation falling on Areas B and Area C is expected to flow by sheet flow towards the south and east, respectively. Precipitation falling on Area D is expected to flow south into a concrete drainage ditch and then south to southeast into a natural creek. The Area A property is located within Zone A of the Federal Emergency Management Agency (FEMA) Flood Plain Map, which indicates an area with a 1% risk of annual

flooding (i.e., 100-year floodplain). No additional areas of flood risk were identified on the FEMA Flood Plain Map (FEMA, 2020).

2.3 SOIL ASSESSMENT

A review of soils data from the United States Department of Agriculture Natural Resources Conservation Service (USDA NRCS) web soil survey indicates that five soil map units are present on the subject property, as depicted on **Attachments D.5** and **Attachments D.6**. A description of the soil map units per Area is described below:

- Area A – The Urban Land and Brackett soils (UuE; 1 to 12% slopes) is located throughout Area A covering approximately 100% of the area. The UuE is described as “gravelly clay loam” and is considered a weathering product of the Edwards Limestone and is classified as being well-drained, having a profile thickness ranging from 0 to 60-inches, having a moderately low to high ability to transmit water (0.06 to 1.98 in/hour) and is grouped in the hydrologic soil group “D.” Generally hydrologic group “D” consists of soils with a very low infiltration rate and high runoff potential and is often associated with clayey soils.
- Area B – The Eckrant soils and Urban Land (TeA; 0 to 2% slopes) is located throughout the majority of Area B covering an area of approximately 95%. The TeA is described as “very stony clay” and is considered a byproduct of incongruent weathering of limestone and is classified as being well-drained, having a profile thickness ranging from 0 to 30-inches, having a moderately low to moderately high ability to transmit water (0.06 to 0.57 in/hour) and is grouped in the hydrologic soil group “D.”
- Area C – The Urban land and Ferris soils (UvE; 10 to 15% slopes) and Volente soils and Urban land (VuD; 1 to 8% slopes) cover an approximate equal area of 50%. The UvE is described as “clay” and is considered a byproduct of incongruent weathering of marl formations of Cretaceous age. This soil unit is classified as being well-drained with a thickness ranging from 0 to 60-inches, having a very low to moderately low ability to transmit water (0.00 to 0.06 in/hour) and is grouped in the hydrologic soil group “D.” The VuD is described as “silty clay loam” and is considered colluvium/ alluvium derived from limestone. This soil unit is classified as being well-drained with a thickness ranging from 0 to 59-inches, having a moderately low to moderately high ability to transmit water (0.06 to 0.57 in/hour) and is grouped in the hydrologic soil group “C.” Generally group “C” consists of soils with low infiltration rates and consist of soil that impedes downward movement of water.
- Area D – The Eckrant soils and Urban land (TeE; 5 to 18% slopes) is located throughout Area D covering approximately 100% of the area. The TeE is described as “very stony clay” and is considered residuum weathered from limestone. This soil unit is classified as being well drained with a thickness ranging from 0 to 30-inches, having a moderately low to moderately high ability to transmit water (0.06 to 0.57 in/hour), and is grouped in the hydrologic soil group “D.”

2.4 GEOLOGIC ASSESSMENT

The site visit was performed on 7 February 2024 by Quintin McNulty with SQE. The assessment was completed by walking each ROW Area on foot. The goal of the assessment was to evaluate the presence of potential geologic and manmade features, and to identify potential sensitive pathways for surface water movement to the Edwards Aquifer. A photographic log is included in **Appendix B** and the results from these areas are described in more detail below.

- Area A – Based on the topography of this area, it is classified as “drainage.” The primary geologic feature observed included a surface stream located on both the western (west of Las Lomas Dr.)

and southern (south of Rollingwood Dr.) portions of the ROW. The stream is labeled as feature “O-1” on Attachment D.1. The bed of the O-1 stream appeared to be infilled with loose, unconsolidated limestone cobbles and boulders which is characteristic of alluvium. No in-situ limestone bedrock was observed within the creek. Additionally, the discharge rate of the stream was considered stagnant and ponded water was observed on the southern portion of the area near the stormwater culvert.

The primary manmade features in this area included two stormwater inlets / grates (MB-1 and MW-2) and one concrete box culvert (MB-3 and MB-4). The stormwater inlets appeared to discharge west into the box culvert, and then south into the surface stream. Overall, this area is considered non-sensitive.

- Area 2 – No geologic features were observed in this area. Four manmade sanitary sewer manhole covers were observed in the center of N Peak Rd and denoted as MB-5 through MB-8. Overall this area is classified as a “hilltop” and does not represent a significant risk for rapid infilling from the surface to the subsurface.
- Area 3 – No geologic features were observed in this area. One stormwater inlet / grate (MB-9) was observed and appears to discharge east. Based on the topography of the area, it is classified as “hillside” and does not represent a significant risk for rapid infilling from the surface to the subsurface.
- Area 4 – Based on the topography of this area, it is classified as “hillside.” The primary geologic features included a surface stream and in-situ limestone bedrock located on the eastern portions of the ROW. The stream is labeled as feature O-2 and the limestone outcrop as O-3. Similar to the stream in Area A, this surface stream was observed infilled with loose, unconsolidated limestone cobbles and boulders, as well as a significant amount of leaf litter and vegetative detritus. Additionally, the surface expression of the stream was relatively steep. As such, no surface water was observed in the stream or within the concrete culvert which discharged into the stream. A surface exposure of limestone bedrock was observed outside of the ROW area, but very nearby. The outcrop was observed with “honeycombed” dissolution features. However, no karst features such as solution enlarged fractures, solution cavities, sinkholes, depressions or caves which could represent a hydrologically connected conduit from the surface to subsurface was observed. Based on these observations neither the surface stream or limestone outcrop represent significant risk for rapid infilling and is considered non-sensitive.

The primary manmade features observed in this area included a concrete lined stormwater ditch on the west side of the ROW which fed into a stormwater inlet / grate (MB-10) which discharged underneath Cedar Park Dr and into the aforementioned surface stream.

Overall, the ground surface of exposed sections of the roadway shoulder in Areas A through Area D consisted of loose unconsolidated, well-graded limestone (coarse grained sand to cobble and occasionally boulder size fractions) comingled with a clay like soil which in areas appeared to be approximately 12-inches thick. This description is consistent with the soil descriptions provided in **Section 2.3** and provided by the USDA NRCS.

A desktop review of the structural geology of the subject property identified synthetic normal faults near and crossing through Area A and Area B. As mentioned in **Section 2.1**, these minor faults are likely associated with the Mount Bonnell fault located approximately 1.25 miles west of the subject property. No exposed faults, or evidence of faulting was observed during the site visit. The fault is presumed to be buried underneath the ground surface.

As mentioned, several manmade utility conduits were observed during the Geologic Assessment. These utilities were generally associated with connections associated with residential structures (e.g., water, electric, wastewater, etc.) and stormwater mitigation. These manmade features appeared to be non-sensitive to the Edwards Aquifer.

Based on information collected during the Geologic Assessment performed on 7 February 2024, SQE prepared a Geologic Assessment form and Geologic Assessment Table, which is included in **Appendix A**.

2.5 RESULTS AND CONCLUSIONS

A Geologic Assessment was performed of four right-of-way areas located in West Lake Hills, Texas. The ROW areas are being considered for infrastructure improvements which may include resurfacing of the existing roadways and/or culvert replacement / maintenance. Based on observations made during the 7 February 2024 Geologic Assessment, 16 features, including 12 manmade utilities (e.g., stormwater culverts, stormwater grates, and sewer covers), two creeks, one limestone outcropping and one normal fault were identified as potential sensitive features to the Edwards Aquifer. However, after further investigation and completion of the Geologic Assessment Table (**Attachment A**) none of these features were identified as sensitive. The planned infrastructure improvement activities are not anticipated to have a significant impact to the Edwards Aquifer. However, if subsurface geologic features are encountered during planned activities which could represent a conduit from the surface to subsurface, work should be stopped and TCEQ notified.

Prior to any disturbance of the current surface topography, either through resurfacing the existing roadway or improvements to existing stormwater infrastructure, stormwater control measures and Best Management Practices (BMPs) may be necessary. As discussed in Section 1.2, temporary erosion and sedimentation controls are required for any construction on the Edwards Aquifer Recharge Zone, regardless of whether the planned activities are considered exempt from the Edwards Aquifer rules. At a minimum, stormwater BMPs involving sedimentation and erosion controls will be required. BMPs including the use of structure and non-structural control devices (i.e., properly installed silt fencing, mulch socks, sediment filters, and temporary diversion berms) are recommended to be utilized as part of planned infrastructure improvements. These BMPs should be placed to minimize erosion and suspended sediments in stormwater runoff, particularly in Areas A and D where overland flow to nearby surface water features is instantaneous. Disturbed areas should be immediately re-vegetated and maintained until the construction area is stabilized. Stormwater controls and BMPs should be documented and maintained in accordance with City and State requirements (i.e., a construction SWPPP, WPAP, or technical equivalent) and should be identified in Site Plans in accordance with City and State requirements.

3 REFERENCES

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FEMA (Federal Emergency Management Agency). 2020. *FIRM, Flood Insurance Rate Map, Travis County and City of West Lake Hills, Texas, Map Number 48453C0445K*.

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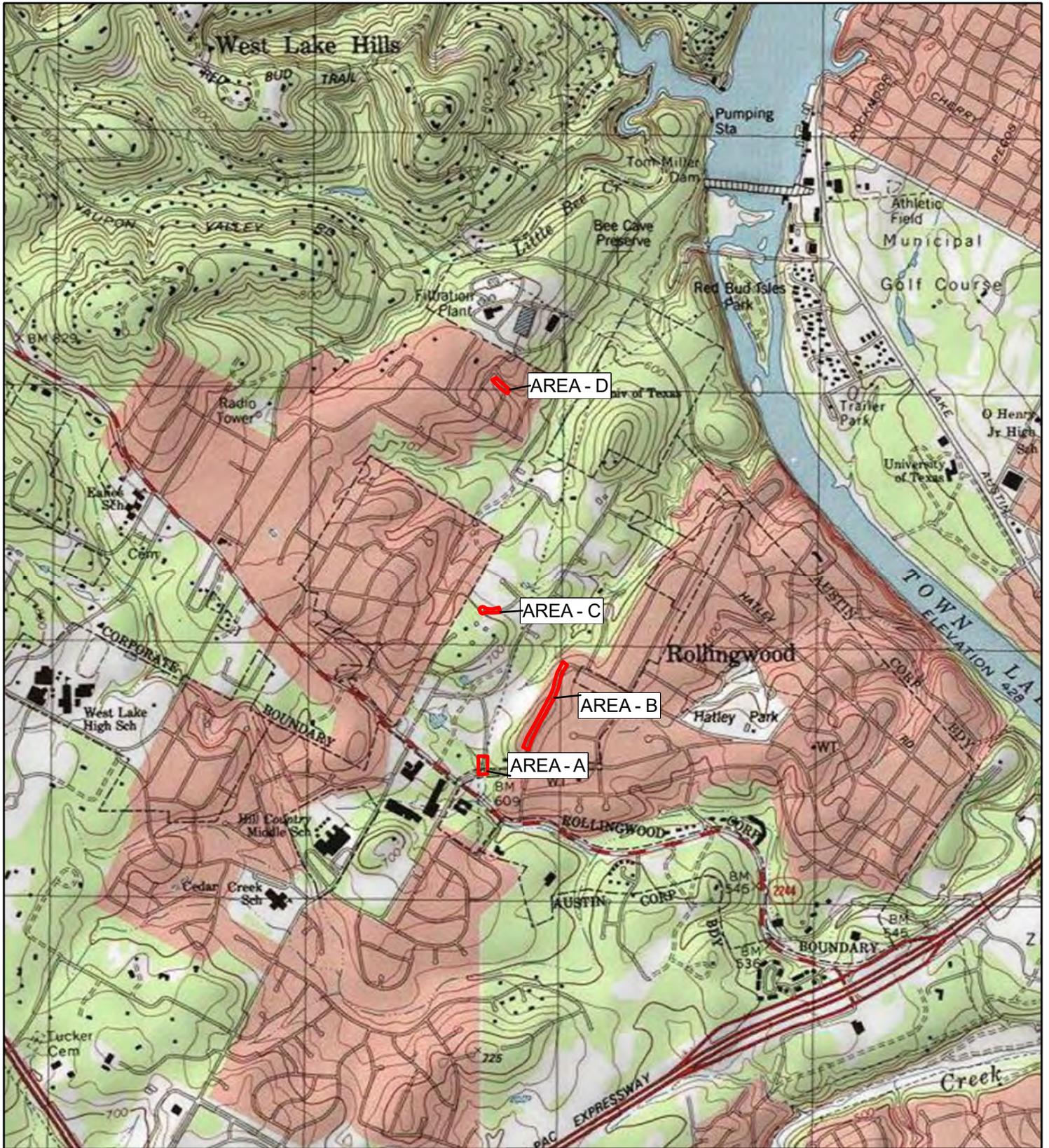
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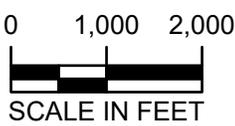
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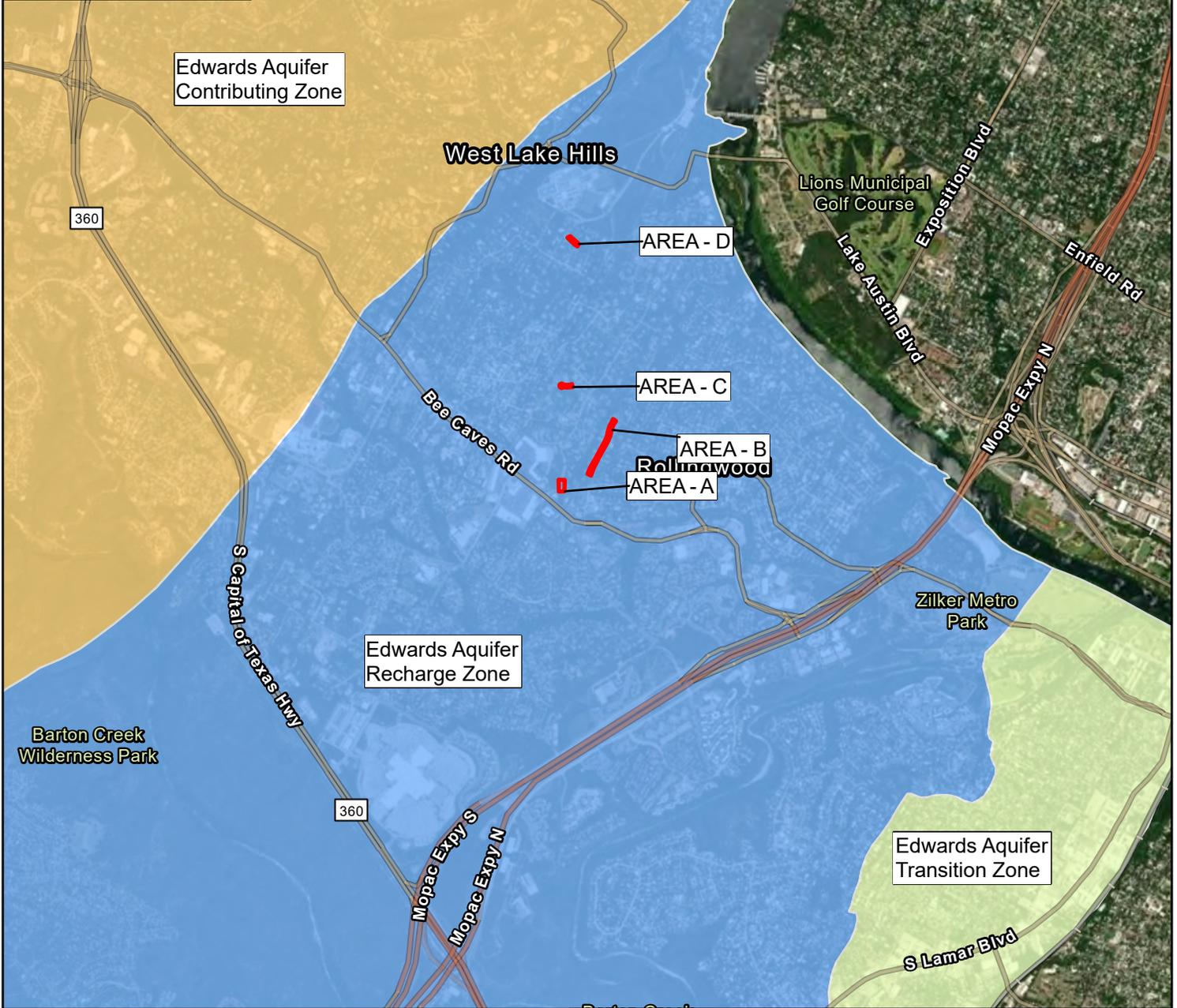
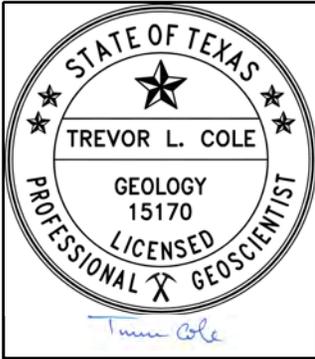
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LEGEND  SUBJECT PROPERTY, APPROXIMATE		 SQ Environmental, LLC	FIGURE 1	
			PROPERTY LOCATION MAP FOUR RIGHT-OF-WAY AREAS WEST LAKE HILLS, TEXAS, 78746	
 SCALE IN FEET	SCALE: 1" = 2,000 FEET	DATE: FEBRUARY 2024	PN: 1228.001.001	

SOURCE: 7.5 MINUTE TOPOGRAPHIC MAP PROVIDED BY ESRI AND SOURCED FROM THE UNITED STATES GEOLOGICAL SURVEY.



<p>LEGEND</p> <p> SUBJECT PROPERTY, APPROXIMATE</p> <p>EDWARDS AQUIFER</p> <p> RECHARGE ZONE</p> <p> TRANSITION ZONE</p> <p> CONTRIBUTING ZONE</p> <p style="text-align: center;">0 1,750 3,500</p> <p style="text-align: center;">SCALE IN FEET</p>	<p>N</p> <p>SQ</p> <p>SQ Environmental, LLC</p>	<p style="text-align: center;">FIGURE 2</p> <p style="text-align: center;">AQUIFER BOUNDARY MAP</p> <p style="text-align: center;">FOUR RIGHT-OF-WAY AREAS WEST LAKE HILLS, TEXAS, 78746</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">SCALE: 1" = 3,500 FEET</td> <td style="width: 33%;">DATE: FEBRUARY 2024</td> <td style="width: 33%;">PN: 1228.001.001</td> </tr> </table>	SCALE: 1" = 3,500 FEET	DATE: FEBRUARY 2024	PN: 1228.001.001
SCALE: 1" = 3,500 FEET	DATE: FEBRUARY 2024	PN: 1228.001.001			

SOURCE: IMAGE COURTESY OF MAXAR DATED 28 SEPTEMBER 2022.
 NOTE: P.G. FIRM NO. 50464; SIGNED ELECTRONICALLY ON 16 FEBRUARY 2024 BY TREVOR L. COLE P.G. NO. 15170.

APPENDIX A

GEOLOGIC ASSESSMENT APPLICATION FORM

Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Trevor L. Cole

Telephone: 850-408-1817

Date: 16 February 2024

Fax: _____

Representing: SQ Environmental, LLC FIRM TBPG No. 50464; TX PG No. 15170 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

Trevor Cole

Regulated Entity Name: _____

Project Information

1. Date(s) Geologic Assessment was performed: 7 February 2024

2. Type of Project:

WPAP
 SCS

AST
 UST

3. Location of Project:

Recharge Zone
 Transition Zone
 Contributing Zone within the Transition Zone



Trevor Cole
Signed electronically on 16 February 2024

4. **Attachment A - Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
5. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
TeA	D	2.5
TeE	D	2.5
UuE	D	5.0
UvE	D	5.0
VuD	C	5.0

** Soil Group Definitions (Abbreviated)*

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted.

6. **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
 Applicant's Site Plan Scale: 1" = 400'
 Site Geologic Map Scale: 1" = 400'
 Site Soils Map Scale (if more than 1 soil type): 1" = 400'
9. Method of collecting positional data:
 - Global Positioning System (GPS) technology.
 - Other method(s). Please describe method of data collection: _____
10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. Surface geologic units are shown and labeled on the Site Geologic Map.

12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- Geologic or manmade features were not discovered on the project site during the field investigation.
13. The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- The wells are not in use and have been properly abandoned.
- The wells are not in use and will be properly abandoned.
- The wells are in use and comply with 16 TAC Chapter 76.
- There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

15. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

ATTACHMENT A
GEOLOGIC ASSESSMENT TABLE

ATTACHMENT A GEOLOGIC ASSESSMENT TABLE PROJECT NAME: Four Right-of-Way Areas, West Lake Hills, Texas

LOCATION			FEATURE CHARACTERISTICS											EVALUATION		PHYSICAL SETTING			
1A	1B *	1C *	2A	2B	3	4			5	5A	6	7	8A	8B	9	10	11	12	
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DOME	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY	CATCHMENT AREA (ACRES)	TOPOGRAPHY	
						X	Y	Z		10						<40	≥40	<1.6	≥1.6
MB-1	30.27357	-97.797509	MB	30	Ked	6'	2'	0	--	--	--	--	V	5	35	x		x	Drainage
MB-2	30.27358	-97.797415	MB	30	Ked	6'	2'	0	--	--	--	--	V	5	35	x		x	Drainage
MB-3	30.27354	-97.797561	MB	30	Ked	--	--	0	--	--	--	--	V	5	35	x		x	Drainage
MB-4	30.27339	-97.797516	MB	30	Ked	--	--	0	--	--	--	--	V	5	35	x		x	Drainage
MB-5	30.27453	-97.795581	MB	30	Ked	24"	24"	0	--	--	--	--	V	5	35	x		x	Hilltop
MB-6	30.27512	-97.795243	MB	30	Ked	24"	24"	0	--	--	--	--	V	5	35	x		x	Hilltop
MB-7	30.27600	-97.794654	MB	30	Ked	24"	24"	0	--	--	--	--	V	5	35	x		x	Hilltop
MB-8	30.27675	-97.794335	MB	30	Ked	24"	24"	0	--	--	--	--	V	5	35	x		x	Hilltop
MB-9	30.27907	-97.796877	MB	30	Ked	6'	2'	0	--	--	--	--	V	5	35	x		x	Hillside
MB-10	30.28796	-97.796734	MB	30	Ked	6'	2'	0	--	--	--	--	V	5	35	x		x	Hillside
MB-11	30.28701	-97.796650	MB	30	Ked	6'	2'	0	--	--	--	--	V	5	35	x		x	Hillside
MB-12	30.28700	-97.796596	MB	30	Ked	18"	18"	0	--	--	--	--	V	5	35	x		x	Hillside
O-1	30.27360	-97.797624	O	5	Ked	6'	20'	0	--	--	--	--	C,O,F	20	25	x		x	Drainage
O-2	30.28689	-97.796421	O	5	Ked	4'	10'	0	--	--	--	--	C, O	30	35	x		x	Hillside
O-3	30.28739	-97.796735	F	20	Ked	20'	3'	4'	--	--	--	--	N, V	15	35	x		x	Hillside
F-1	30.27538	-97.795013	F	20	Ked	100'	--	--	NE35°	--	--	--	C,O,F,N	15	35	x		x	Hilltop

* DATUM WGS 1984

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
V	Concrete, manmade utility

12 TOPOGRAPHY	
	Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Trevor Cole

Date 16 February 2024

Sheet ___ of ___

TCEQ-0585-Table (Rev. 10-01-04)



Trevor Cole

signed electronically on 16 February 2024.

ATTACHMENT B
STRATIGRAPHIC COLUMN

ATTACHMENT B
GENERAL STRATIGRAPHIC COLUMN
FOUR RIGHT-OF-WAY AREAS
WEST LAKE HILLS, TEXAS, 78746

Quaternary	Alluvium	Fluvatile Terrace Deposits; 25-80 feet thick
Upper Cretaceous	Upper Confining Units	Navarro and Taylor Groups, undivided, 600 feet thick
		Austin Group; 325 - 420 feet thick
		Eagle Ford Group; 25 - 65 feet thick
		Del Rio Clay; 40 - 70 feet thick
Lower Cretaceous	Edwards Aquifer	Georgetown Formation; 30 - 80 feet thick
		Edwards Formation; ~200 feet thick
	Lower Confining Units	Comanche Peak Formation; 80 feet thick
		Walnut Foration; ~ 120 feet thick
		Upper member of Glen Rose Limestone; 500 feet thick

NOTES:

Stratigraphy sourced from Collins, E.W., 2005. Geologic Map of the West half of the Taylor, Texas, 30 x 60 Minute Quadrangle:

Central Texas Urban Corridor Encompassing Round Rock, Georgetown, Salado, Briggs, Liberty Hill, and Leander.

National Geologic Map Database.

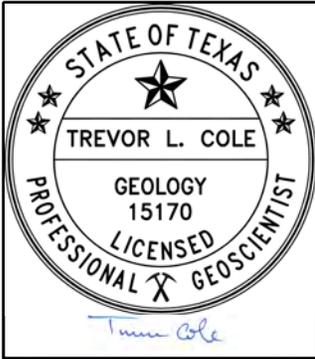
Shaded blue cells represents the observed geology on the subject property.

Shaded gray cells represents the geology in the area near the subject property.

ATTACHMENT C
NARRATIVE DESCRIPTION OF SITE GEOLOGY

Please refer to sections 2.1 through 2.3.

ATTACHMENT D.1
PROPERTY LAYOUT MAP



LEGEND

- SUBJECT PROPERTY, APPROXIMATE
- ▲ CONCRETE STORMWATER CULVERT
- NATURAL GEOLOGIC FEATURE
- - - CREEK AND FLOW DIRECTION
- SEWER MANHOLE
- STORMWATER GRATE



SQ Environmental, LLC

SCALE: 1" = 400 FEET

ATTACHMENT D.1

PROPERTY LAYOUT MAP

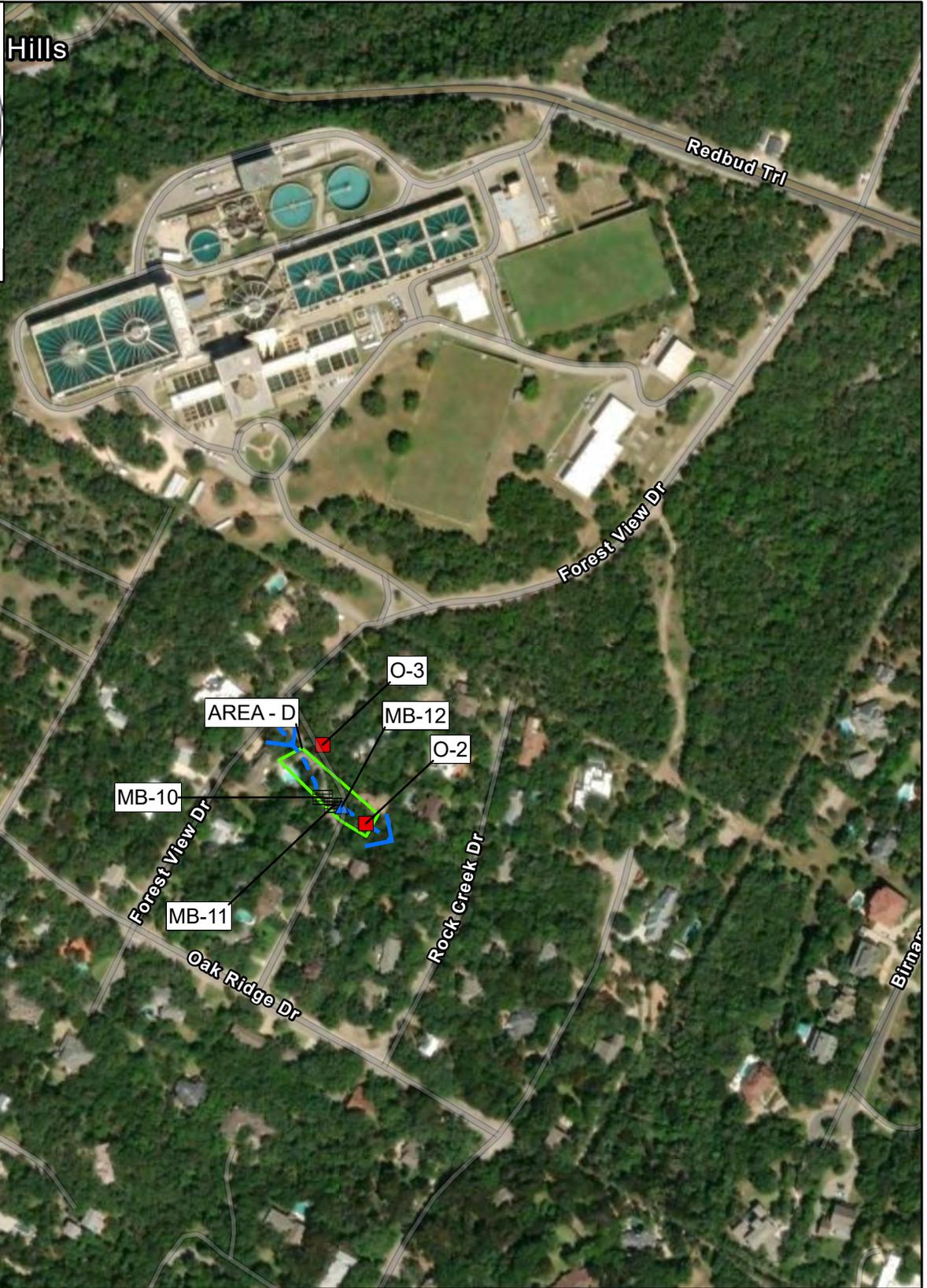
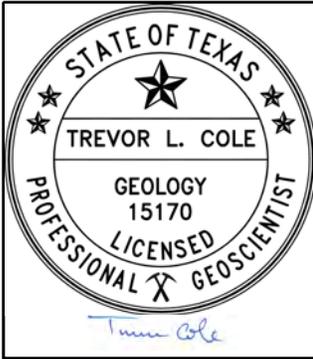
FOUR RIGHT-OF-WAY AREAS
WEST LAKE HILLS, TEXAS, 78746

DATE: FEBRUARY 2024

PN: 1228.001.001

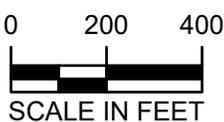
SOURCE: IMAGE COURTESY OF MAXAR DATED 28 SEPTEMBER 2022.
NOTE: P.G. FIRM NO. 50464; SIGNED ELECTRONICALLY ON 16 FEBRUARY 2024 BY TREVOR L. COLE P.G. NO. 15170.

ATTACHMENT D.2
PROPERTY LAYOUT MAP



LEGEND

- SUBJECT PROPERTY, APPROXIMATE
- ▲ CONCRETE STORMWATER CULVERT
- NATURAL GEOLOGIC FEATURE
- CREEK AND FLOW DIRECTION
- SEWER MANHOLE
- STORMWATER GRATE



SQ Environmental, LLC

SCALE: 1" = 400 FEET

ATTACHMENT D.2

PROPERTY LAYOUT MAP

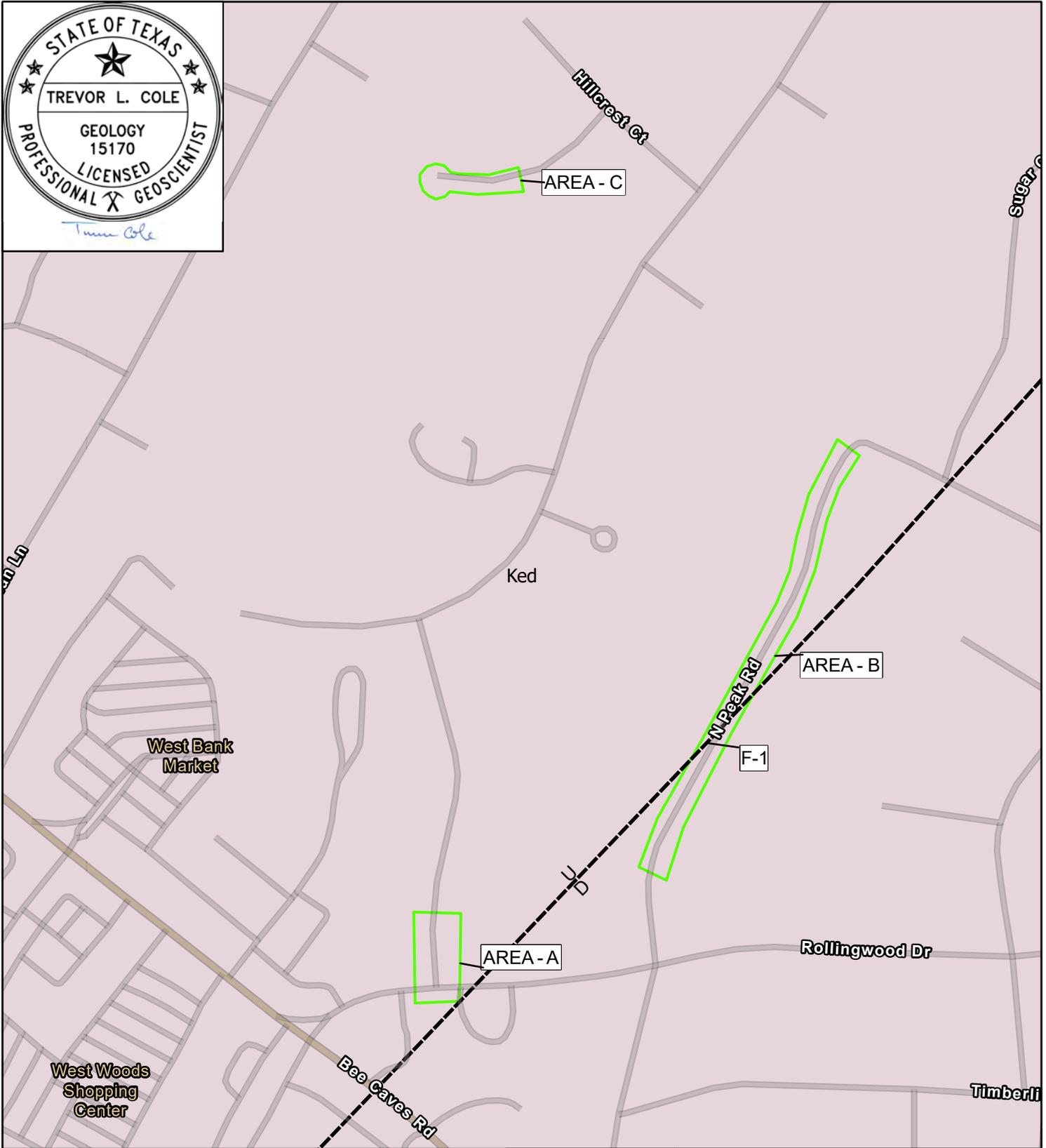
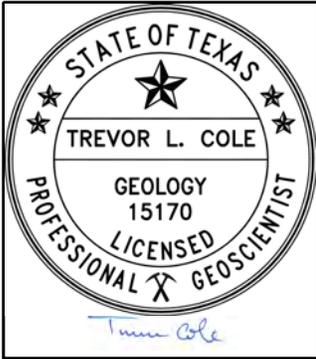
FOUR RIGHT-OF-WAY AREAS
WEST LAKE HILLS, TEXAS, 78746

DATE: FEBRUARY 2024

PN: 1228.001.001

SOURCE: IMAGE COURTESY OF MAXAR DATED 28 SEPTEMBER 2022.
NOTE: P.G. FIRM NO. 50464; SIGNED ELECTRONICALLY ON 16 FEBRUARY 2024 BY TREVOR L. COLE P.G. NO. 15170.

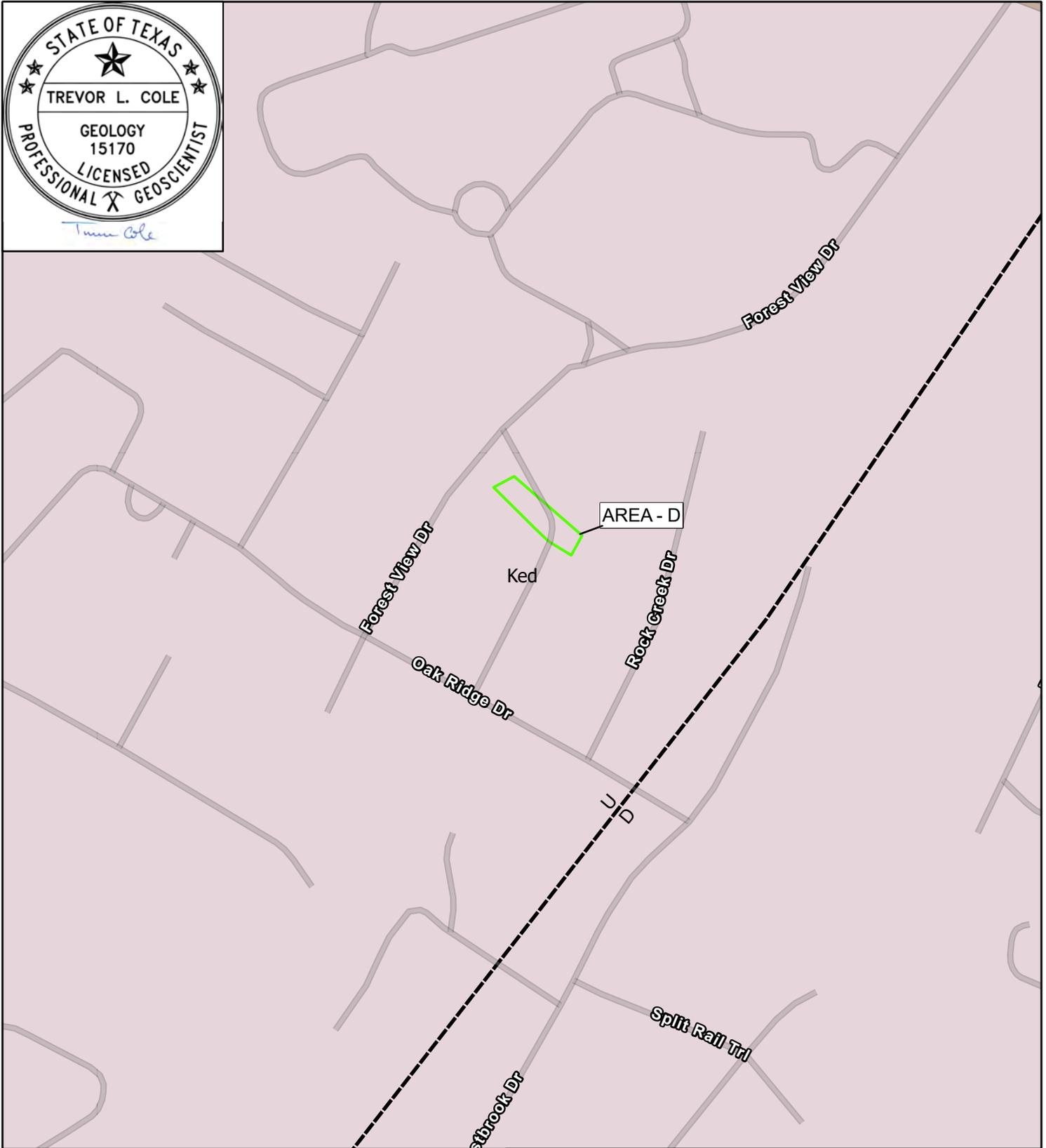
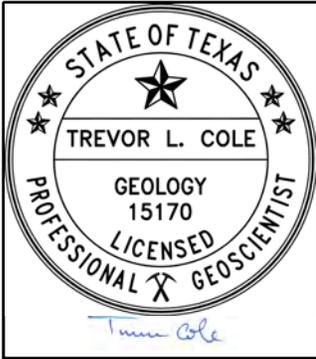
ATTACHMENT D.3
GEOLOGIC MAP



LEGEND SUBJECT PROPERTY, APPROXIMATE Ked - EDWARDS LIMESTONE NORMAL FAULT		 SQ Environmental, LLC	ATTACHMENT D.3	
 SCALE IN FEET			GEOLOGIC MAP FOUR RIGHT-OF-WAY AREAS WEST LAKE HILLS, TEXAS, 78746	
SCALE: 1" = 400 FEET		DATE: FEBRUARY 2024	PN: 1228.001.001	

SOURCE: MAPPED GEOLOGICAL UNIT COURTESY OF GEOLOGIC ATLAS OF TEXAS.
 NOTE: P.G. FIRM NO. 50464; SIGNED ELECTRONICALLY ON 16 FEBRUARY 2024 BY
 TREVOR L. COLE P.G. NO. 15170.

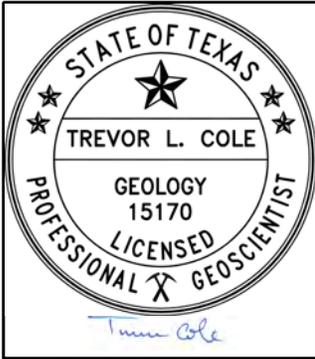
ATTACHMENT D.4
GEOLOGIC MAP



LEGEND				ATTACHMENT D.4	
SUBJECT PROPERTY, APPROXIMATE	Ked - EDWARDS LIMESTONE			GEOLOGIC MAP	
NORMAL FAULT		SCALE: 1" = 400 FEET	DATE: FEBRUARY 2024	PN: 1228.001.001	

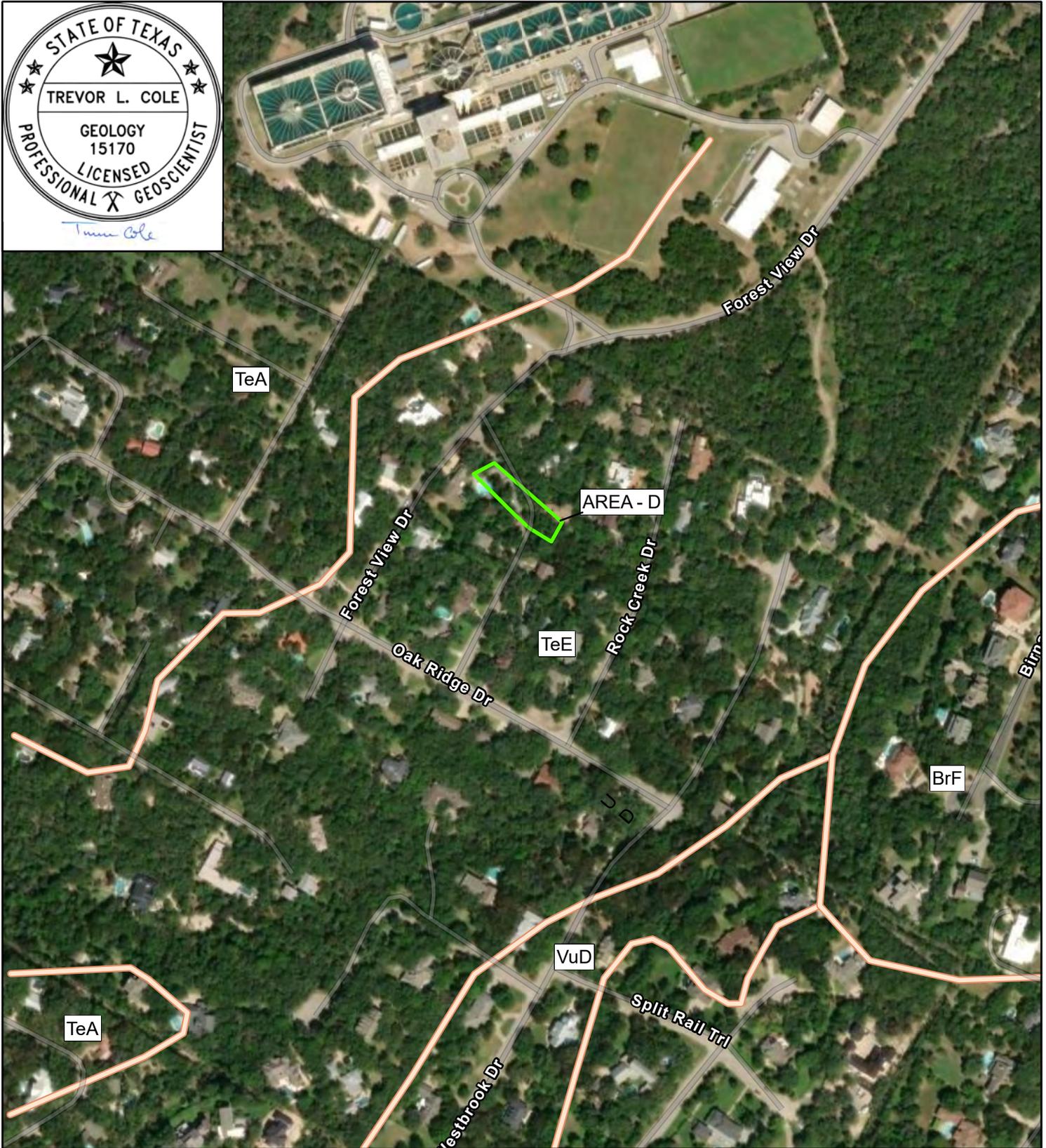
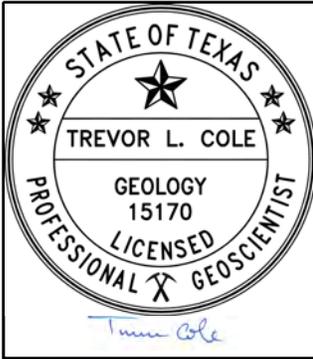
SOURCE: MAPPED GEOLOGICAL UNIT COURTESY OF GEOLOGIC ATLAS OF TEXAS.
 NOTE: P.G. FIRM NO. 50464; SIGNED ELECTRONICALLY ON 16 FEBRUARY 2024 BY
 TREVOR L. COLE P.G. NO. 15170.

ATTACHMENT D.5
SOILS MAP



LEGEND SUBJECT PROPERTY, APPROXIMATE SOIL BOUNDARY, APPROXIMATE	 SCALE IN FEET 0 200 400	 SQ Environmental, LLC	ATTACHMENT D.5	
			SOILS MAP FOUR RIGHT-OF-WAY AREAS WEST LAKE HILLS, TEXAS, 78746	
SOURCE: IMAGE COURTESY OF MAXAR DATED 28 SEPTEMBER 2022. SOIL BOUNDARIES PROVIDED BY USDA NRCS WEB SOIL SURVEY. NOTE: P.G. FIRM NO. 50464; SIGNED ELECTRONICALLY ON 16 FEBRUARY 2024 BY TREVOR L. COLE P.G. NO. 15170.		SCALE: 1" = 400 FEET	DATE: FEBRUARY 2024	PN: 1228.001.001

ATTACHMENT D.6
SOILS MAP



LEGEND SUBJECT PROPERTY, APPROXIMATE SOIL BOUNDARY, APPROXIMATE	 SCALE IN FEET 0 200 400 	 SQ Environmental, LLC	ATTACHMENT D.6	
			SOILS MAP FOUR RIGHT-OF-WAY AREAS WEST LAKE HILLS, TEXAS, 78746	
SCALE: 1" = 400 FEET		DATE: FEBRUARY 2024	PN: 1228.001.001	

SOURCE: IMAGE COURTESY OF MAXAR DATED 28 SEPTEMBER 2022. SOIL BOUNDARIES PROVIDED BY USDA NRCS WEB SOIL SURVEY.
 NOTE: P.G. FIRM NO. 50464; SIGNED ELECTRONICALLY ON 16 FEBRUARY 2024 BY TREVOR L. COLE P.G. NO. 15170.

APPENDIX B

PHOTOGRAPHIC LOG

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 1. View looking north along N. Peak Rd at southern end of project area.



Photo 2. View at southern end of N. Peak Rd. Right of way area (east side).

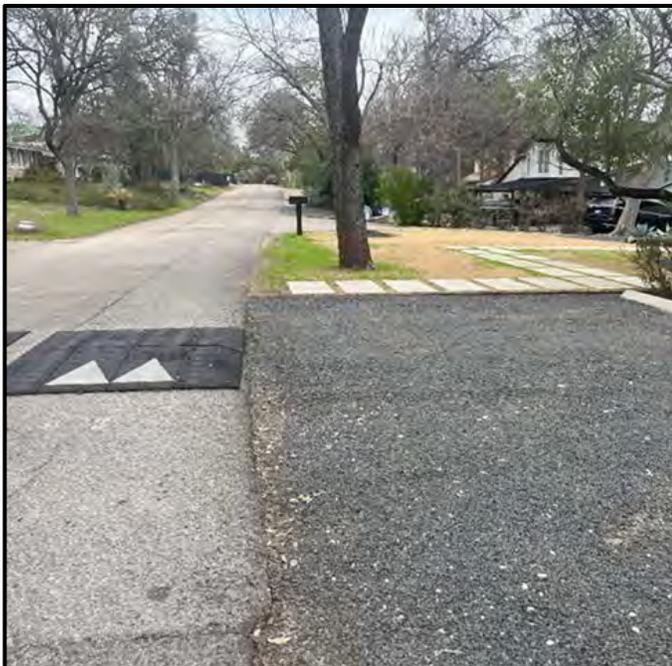


Photo 3. East right-of-way along North Peak Road. Parking for adjacent residence. Looking north.



Photo 4. Sanitary sewer manhole in centerline of N. Peak Road.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 5. 9 N. Peak Road right-of-way, Looking north.



Photo 6. 10 N Peak Rd. Looking west.



Photo 7. Utility poles in west ROW of N. Peak Rd. Looking west.



Photo 8. Residential excavation in front lawn near 12 N. Peak Rd. Top of limestone visible in places. Looking north.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 9. Power poles in ROW of N. Peak Rd. East side of road. Looking northeast.



Photo 10. Approaching end of construction area. Looking north.



Photo 11. West ROW of N. Peak Rd. Looking north.



Photo 12. End of construction area along N. Peak Road. Looking north.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 13. Intersection of Las Lomas and Rollingwood. Looking northeast.



Photo 14. Looking north at entrance to Las Lomas Dr. Landscaped median dividing north and south lanes.



Photo 15. Concrete culvert on west side of Las Lomas Dr. Looking south.



Photo 16. Drainage swale that enters concrete culvert on west side of Las Lomas Dr. Looking north.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 17. Electric utility manhole in west ROW of Las Lomas Dr.



Photo 18. Stormwater inlet on east side of Las Lomas Dr. Looking east.



Photo 19. Stormwater inlet on west side of Las Lomas Dr. Looking west.



Photo 20. South side of Rollingwood Drive at culvert. Looking east.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 21. Culvert on south side of Rollingwood Drive. Looking northwest.



Photo 22. Drainage swale exiting culvert south of Rollingwood Dr. Looking south.



Photo 23. Utilities on south ROW of Rollingwood Drive.



Photo 24. Utilities on south ROW of Rollingwood Dr. Looking west.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 25. View of beginning of construction area on Bent Tree Ct. Looking west.



Photo 26. South ROW near construction beginning on Bent Tree Ct. Utilities visible on south side of ROW.



Photo 27. Limestone rock retaining wall along southern project area of Bent Tree Ct.



Photo 28. Stormwater inlet on southern ROW along Bent Tree Ct.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 29. View of southern side of Bent Tree Ct. along retaining wall. Looking west.



Photo 30. Utilities in cul-de-sac area of Bent Tree Ct. Looking north.



Photo 31. Cul-de-sac at end of Bent Tree Ct. Looking west.



Photo 32. Utilities in ROW in cul-de-sac of Bent Tree Ct.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 33. View of Cedar Park Dr. looking north.



Photo 34. Utilities near 805 Cedar Park Dr. Culvert visible just to north. Looking north.



Photo 35. Culvert effluent pipes on east side of Cedar Park Dr. Looking east.



Photo 36. Effluent culvert pipes on east side of Cedar Park Dr. Looking west.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 37. Boulders on south bank of culvert area. Looking south.



Photo 38. Stormwater inlet and street utilities along Cedar Park Dr. where culvert runs under road. Looking west.



Photo 39. Concrete channel on west side of Cedar Park Drive that runs into stormwater inlet. Looking west.



Photo 40. North end of concrete channel on west side of Cedar Park Dr. just south of Forest View Dr.

APPENDIX B
PHOTOGRAPHIC LOG



Photographs were taken on 2/7/2024 by Q. McNulty of SQE.



Photo 41. Limestone rock on east side of Cedar Park just north of 809 Cedar Park Dr. Looking east.



Photo 42. Limestone rock on east side of Cedar Park just north of 809 Cedar Park Dr. Looking east.



Photo 43. East ROW along Cedar Park Dr. Looking south.



Photo 44. East ROW along Cedar Park Dr. near 807 Cedar Park. Looking east.

Recharge and Transition Zone Exemption Request Form (TCEQ Form-0628)

Tab 4

Attachment A
Attachment B

Nature of Exception
Documentation of Equivalent Water Quality Protection

Recharge and Transition Zone Exception Request Form

Texas Commission on Environmental Quality

30 TAC §213.9 Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Susan Turrieta

Date: 6/10/2024

Signature of Customer/Agent:



Regulated Entity Name: City of West Lake Hill Street Rehabilitation & Drainage Improvements

Exception Request

- Attachment A - Nature of Exception.** A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
- Attachment B - Documentation of Equivalent Water Quality Protection.** Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

- Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
- The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

Attachment A – Nature of Exception

The West Lake Hills 2024 Street Rehabilitation & Drainage Improvements Project is an exception to the requirements for a Water Pollution Abatement Plan (WPAP) for the following reasons:

- 1) The work proposed includes the maintenance of existing infrastructure facilities that consist only of stormwater drainage conveyance and roadway.
- 2) Minimal soil disturbance will be required, minimal soil regrading and stabilization will be performed to address the rehabilitation & improvements.
- 3) All work will be performed in previously disturbed & currently developed areas.

Attachment B – Equivalent Water Quality Protection

The implementation of the street rehabilitation & drainage improvements will enhance the existing water quality protection to the Edwards Aquifer. The proposed improvements will control stormwater conveyance, reduce local erosion, and lessen downstream deposition of eroded sediment. In addition, revegetation will be performed on all disturbed areas after the completion of the project further improving the water quality in the areas. Proposed work at Rollingwood and Las Lomas will direct water away from the roadway where water could be polluted, and instead funnels in back into its intended channel. The proposed work at North Peak Dr will reduce erosion and sediment movement improving stormwater conveyance.

Temporary Storm-water Section (TCEQ Form 0602)

Tab 5

Attachment A	Spill Response Actions
Attachment B	Potential Sources of Contamination
Attachment C	Sequence of Major Activities
Attachment D	Temporary Best Management Practices and Measures
Attachment E	Request to Temporarily Seal a Feature, if requested
Attachment F	Structural Practices
Attachment G	Drainage Area Map
Attachment H	Temporary Sediment Pond(s) Plans and Calculations
Attachment I	Inspection and Maintenance for BMPs
Attachment J	Schedule of Interim and Permanent Soil Stabilization Practices

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Susan Turrieta

Date: 6/10/2024

Signature of Customer/Agent:



Regulated Entity Name: City of West Lake Hills Street Rehabilitation & Drainage Improvements

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

The following fuels and/or hazardous substances will be stored on the site: Gasoline, asphalt products & chemical additives

These fuels and/or hazardous substances will be stored in:

- Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

- Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
 - Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
 - Fuels and hazardous substances will not be stored on the site.
2. **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
 4. **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: _____

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

7. **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 - There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- N/A
12. **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
21. If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
22. Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

Attachment A

Spill Response Actions

The most likely instances of a spill of hydrocarbons or hazardous substances are:

1. Refueling construction equipment (i.e. diesel, gasoline).
2. Performing operator-level maintenance, including adding petroleum, oils, or lubricants to equipment.
3. Unscheduled or emergency repairs, such as hydraulic fluid leaks.

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill as defined by 30 TAC 327

(https://texreg.sos.state.tx.us/public/readtac%24ext.ViewTAC?tac_view=4&ti=30&pt=1&ch=327&rl=Y).

Steps on who to notify, how to clean and when to report can be found on the Texas Environmental Quality's (TCEQ) website under:

<https://www.tceq.texas.gov/response/spills>

During business hours report spills to the TCEQ's Austin Regional Office at **(512) 239-1000**.

After business hours report spills to the Environmental Response Hotline at **1-800-832-8224**, or to the TCEQ Spill Reporting Hotline at **(512) 463-7727**, which is also answered 24 hours a day.

The contractor is required to clean up the spill and notify TCEQ as required including a **30-day follow-up**.

Additional information can be found on the TCEQ website (www.tceq.texas.gov). Helpful guidelines and pages are included in this section.

For small spills that do not require reporting to state (TCEQ or Texas General Land Office) or federal (Environmental Protection Agency) entities:

- 1) Notify the responsible person or response personnel hired by the responsible person at the site of the discharge or spill;
- 2) Initiate efforts to stop the discharge or spill;
- 3) Minimize the impact to the public health and the environment;
- 4) Neutralize the effects of the incident;
- 5) Properly remove the discharged or spilled substances; and
- 6) Dispose managing the waste(s) in accordance with local and state regulations at designated waste collection facilities;
- 7) Document spill volume, location, remediation efforts and disposal method(s) with the project city inspector;
- 8) Provide required documentation to city officials upon request

Attachment B

Potential Sources of Contamination

Potential sources of contamination can be found on the site in the form of fossil fuels for construction vehicles and equipment, dispenser systems for fuels/lubricants as well as asphalt/concrete pavement for the rehabilitation of the street & drainage improvements being performed. Disrupted sediment is also a potential source of contamination downstream of the construction site from activities including clearing & grubbing, excavation, filling, grading, the placement of port-a-potty bathrooms, and other litter that may be generated during the construction sequence. The contractor will take full responsibility for the immediate clean-up of any asphalt, emulsion, coatings, sealants, concrete and/or any damage to the erosion and sedimentation control BMPs onsite. The owner will be responsible for cleaning up any of the potential sources of contamination and restoring the site to the original condition. Erosion and sedimentation during the construction phase will be managed and contained by the temporary BMPs including the installation of silt fences, mulch socks, inlet protection barriers, triangular filter dikes, and other cautionary measures that are outlined in the construction sequencing for the project. Please refer to *Form-0587 Attachment C.1 Construction Plans (Tab 2)* for the street maintenance rehabilitation & drainage improvement plans outlining the temporary BMPs to be implemented during the construction of the project. In case a spill or break occurs during installation of concrete, or any asphalt pavement, stand-by personnel and equipment will be readily available during the pouring and/or curing time.

Attachment C

Sequence of Major Activities

The general sequence of major activities is found on *Form-0587 Attachment C.1 Construction Plans (Tab 2)*. The temporary BMP measures include silt fence, mulch socks, rip rap

1. Install temporary erosion/sedimentation control, install tree protection. (1.09 acres)
2. Clearing and grubbing of site, demolition & excavation (.63 acres)
3. Driveway reconstruction and regrading. (.39 acres) IF WE ADD CONC CHANNEL ADD HERE (AND ACRES)
4. Restore site. (.63 acres)
5. Native seeding and revegetation. (.63 acres)
6. Remove temporary erosion/sedimentation control.

Attachment D

Temporary Best Management Practices and Measures

1. Temporary Erosion and Sedimentation controls utilized in this project include (but are not limited to): silt fence, rock berms, tree protection, mulch socks, inlet protection barriers, and triangular filter dikes. Refer to *Form-0587 Attachment C.1 Construction Plans (Tab 2)* for the proposed erosion and sedimentation control for this project and their locations. Temporary BMPs will be installed prior to construction activities and are to be removed after construction has been finalized and all sites have been revegetated and restored. Erosion & sedimentations for on site stormwater discharge will minimize surface water pollution by removal and filtration of sediment and pollutants in water. After the construction has been completed and topsoil is placed for revegetation, native seeding will stabilize all areas disturbed.

Attachment E

Request to Temporarily Seal a Feature, if requested

NO FEATURES are within the project limits. NO TEMPORARY SEAL request is made.

Attachment F

Structural Practices

During construction of the site improvements temporary structural practices will be implemented to reduce and limit surface runoff & pollutants. This includes the use of inlet protection barriers, mulch sock, silt fencing, & a rock berm/rip-rap feature. TCEQ Edwards Aquifer: Rules and Technical Guidance, "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices" (RG-348), Chapter 1, section 1.1, 1.2, 1.3 & 1.4 which includes guidance on the rules that apply specifically to the Edwards Aquifer regarding temporary structural BMPs, must be followed through any and all implementation of BMPs for the proposed project. In addition, *Form-0587 Attachment C.1 Construction Plans (Tab 2* for the proposed erosion and sedimentation control construction plan sheets depicting the types of BMPs and location of to be implemented during the construction of proposed improvements.

Attachment G

Drainage Area Map

Drainage Area Maps for existing and developed conditions are included in Refer to *Form-0587 Attachment C.1 Construction Plans (Tab 2)* sheet C29.8 & C29.9 for the drainage improvement on North Peak Rd. No additional Impervious cover is proposed on the drainage improvements on the intersection of Rollingwood Drive and Las Lomas.

Attachment H

Temporary Sediment Pond(s) Plans and Calculations

NO TEMPORARY SEDIMENT POND(S) is proposed nor included within the project scope & limits. Attachment H is not Applicable to this project.

Attachment I

Inspection and Maintenance for BMPs

Inspections

Each contractor will designate a qualified person (or persons) to perform the following inspections:

1. Disturbed areas and areas used for storage of materials that are exposed to precipitation will be inspected for evidence of, or the potential for pollutants entering the drainage system.
2. Erosion and sediment control measures identified in the plan will be observed to ensure that they are operating correctly and their integrity is maintained.
3. Where discharge locations or points are accessible, they will be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.
4. Location where vehicles enter or exit the site will be inspected for evidence of off-site sediment tracking.
5. Permanent seeding and planting will be inspected for bare spots, washouts and unhealthy growth.

The inspection shall be conducted by the responsible person at least once week and after any rainfall. The contractor is responsible for maintaining the adequacy and integrity of temporary erosion and sediment control measured to filter silt and other runoff material until construction has completed and stabilization and revegetation has been performed all in accordance to the contract specifications and the City of West Lake Hills Drainage and Erosion Control Manual, as well as Part 2, Section F.6 of TPDES Gen. Permit #TXR150000.

The information required within an inspection and maintenance report is as follows.

1. Summary of the scope of the inspection.
2. Name(s) and qualifications of personnel making the inspection.
3. The dates of the inspections & a tracking log to be updated after each **inspection date.**
4. Major observations relating to the implementation of the storm-water pollution prevention plan.
5. Changes required correcting damages or deficiencies in the control measures.

In addition to the required routine inspections, the following record of information will also be maintained:

1. The dates when major grading activities occur.
2. The dates when construction activities temporarily or permanently cease on a portion of the site.
3. The dates when stabilization measures are initiated.

Inspection and maintenance report, all records required, & erosion/sediment control BMP measures will meet the requirements & maintenance outline in RG-348. And outlined by this storm-water pollution prevention exemption.

Attachment J

Schedule of Interim and Permanent Soil Stabilization Practices

The purpose of soil stabilization is to prevent soil from leaving the site. The soil in the portion of the site that is to be left in the natural condition will be stabilized by native vegetation. The soil in the developed portion of the project will be stabilized by grass, pavement, or buildings.

Interim soil stabilization practices consist of temporary seeding. Within 14 days after the construction activity ceases on any particular area, all disturbed ground where there will not be construction for longer than 21 days must be seeded with fast-germinating temporary seed and protected with mulch.

Permanent soil stabilization practices for pervious areas of the site consist of permanent seeding. All areas at final grade must be seeded within 14 days after completion of the major construction activity. Except for small level spots, seeded areas should be protected with mulch. Final site stabilization is achieved when grass cover provides permanent stabilization for at least 70 percent of the disturbed soil surface, exclusive of areas that have been paved. Record of dates when major grading activities and construction activities end, as well as when stabilization measures are started.

- 1) Install temporary sedimentation & erosion control BMPs
 - a. Notice of Intent
 - b. Install BMPs following TCEQ Edward's Aquifer in accordance to in RG-348
- 2) Clearing & Grubbing
 - a. Begin clearing & grubbing at location where drainage improvements are proposed.
- 3) Drainage Improvements Construction
 - a. Regrade proposed areas
 - b. Regrade culvert entrance area, create swale.
- 4) Restore Site
 - a. Revegetate & seed disturbed areas
- 5) Removal of ESC
 - a. Remove all temporary BMP.

Permanent Stormwater Section (TCEQ Form 0600)

Tab 6

Attachment A	20% or Less Impervious Cover Waiver
Attachment B	BMPs for Upgradient Stormwater
Attachment C	BMPs for On-site Stormwater
Attachment D	BMPs for Surface Streams
Attachment E	Request to Seal a Feature (If sealing a feature)
Attachment F	Construction Plans
Attachment G	Inspection, Maintenance, Repair & Retrofit Plan
Attachment H	Pilot-Scale Field Testing Plan (if proposed)
Attachment I	Measures for Minimizing Surface Stream Contamination

**NO PERMANENT STORMWATER BMPS PROPOSED FOR
WLH STREET REHAB & DRAINAGE IMPROVEMENTS**

Agent Authorization (TCEQ Form 0599)

Tab 7

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Jennifer C. Bills,
Print Name
Director of Building and Development Services,
Title - Owner/President/Other
of City of West Lake Hills,
Corporation/Partnership/Entity Name
have authorized Susan Turreita
Print Name of Agent/Engineer
of Walter P Moore
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Jessica C. Bills
Applicant's Signature

6/10/24
Date

THE STATE OF Texas §

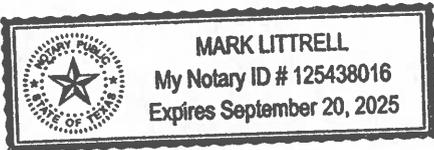
County of Tarrant §

BEFORE ME, the undersigned authority, on this day personally appeared Jessica C. Bills known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 10 day of June, 2024.

Mark Littrell
NOTARY PUBLIC

MARK LITRELL
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 9/20/25

Fee Application (TCEQ Form 0574)

Tab 8

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: _____

Regulated Entity Location: City of West Lake Hills

Name of Customer: City of West Lake Hills

Contact Person: Trey Fletcher

Phone: 512-327-3628

Customer Reference Number (if issued): CN 600685515

Regulated Entity Reference Number (if issued): RN _____

Austin Regional Office (3373)

Hays

Travis

Williamson

San Antonio Regional Office (3362)

Bexar

Medina

Uvalde

Comal

Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment.** This payment is being submitted to:

Austin Regional Office

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

Recharge Zone

Contributing Zone

Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	1 Each	\$ 500
Extension of Time	Each	\$

Signature: *Susan Turrietta*

Date: 6/10/2024

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

<i>Project</i>	<i>Project Area in Acres</i>	<i>Fee</i>
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

<i>Project</i>	<i>Cost per Linear Foot</i>	<i>Minimum Fee- Maximum Fee</i>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

<i>Project</i>	<i>Cost per Tank or Piping System</i>	<i>Minimum Fee- Maximum Fee</i>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

<i>Project</i>	<i>Fee</i>
Exception Request	\$500

Extension of Time Requests

<i>Project</i>	<i>Fee</i>
Extension of Time Request	\$150

Core Data (TCEQ Form 10400)

Tab 9



TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600685515		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)				
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>				
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)			<i>If new Customer, enter previous Customer below:</i>	
City of West Lake Hills				
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:		<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees			13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher			<input type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following				
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant				
15. Mailing Address:	City of West Lake Hills			
	911 Westlake Drive			
	City	West Lake Hills	State	TX
	ZIP	78746	ZIP + 4	
16. Country Mailing Information (if outside USA)			17. E-Mail Address (if applicable)	
			Tfletcher@westlakehills.gov	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)

SECTION III: Regulated Entity Information**21. General Regulated Entity Information** *(If 'New Regulated Entity' is selected, a new permit application is also required.)*
 New Regulated Entity
 Update to Regulated Entity Name
 Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

City of West Lake Hills Street Rehabilitation & Drainage Improvements

23. Street Address of the Regulated Entity:*(No PO Boxes)*

City

State

ZIP

ZIP + 4

24. County

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:

Northwest grass swale area immediately upstream of culvert inlet crossing Rollingwood Dr at Las Lomas Dr & Rollingwood Dr intersection. North Peak Rd from Rollingwood Dr to Gentry Dr.

26. Nearest City

State

Nearest ZIP Code

West Lake Hills

TX

78746

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:

30.2910

28. Longitude (W) In Decimal:

97.7997

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

30

17

27.60

97

47

58.87

29. Primary SIC Code**30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

1611

237310

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

City Roadway

34. Mailing Address:

City of Westlake Hills

911 Westlake Dr

City

West Lake Hills

State

TX

ZIP

78746

ZIP + 4

35. E-Mail Address:

tfletcher@westlakehills.gov

36. Telephone Number**37. Extension or Code****38. Fax Number** *(if applicable)*

(512) 327-3628

() -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input checked="" type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Susan Turrieta	41. Title:	Managing Director
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 330-1292		() -	sturrieta@walterpmoore.com/zscott@walterpmoore.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Walter P Moore	Job Title:	Associate
Name (In Print):	Susan Turrieta	Phone:	(512) 330- 1292
Signature:		Date:	6/10/2024