Docusign Envelope ID: 0838E718-4D25-4C6E-867C-A28FA33EC46F

FINAL PLANS

NAME OF CONTRACTOR: _____

DATE OF LETTING: _____

DATE WORK BEGAN: _____

DATE WORK COMPLETED: _____

DATE WORK ACCEPTED: _____

SUMMARY OF CHANGE ORDERS:

CITY OF ROCKWALL

PLANS OF PROPOSED
MEDIAN LANDSCAPE IMPROVEMENT

FEDERAL AID PROJECT F 2026(971)

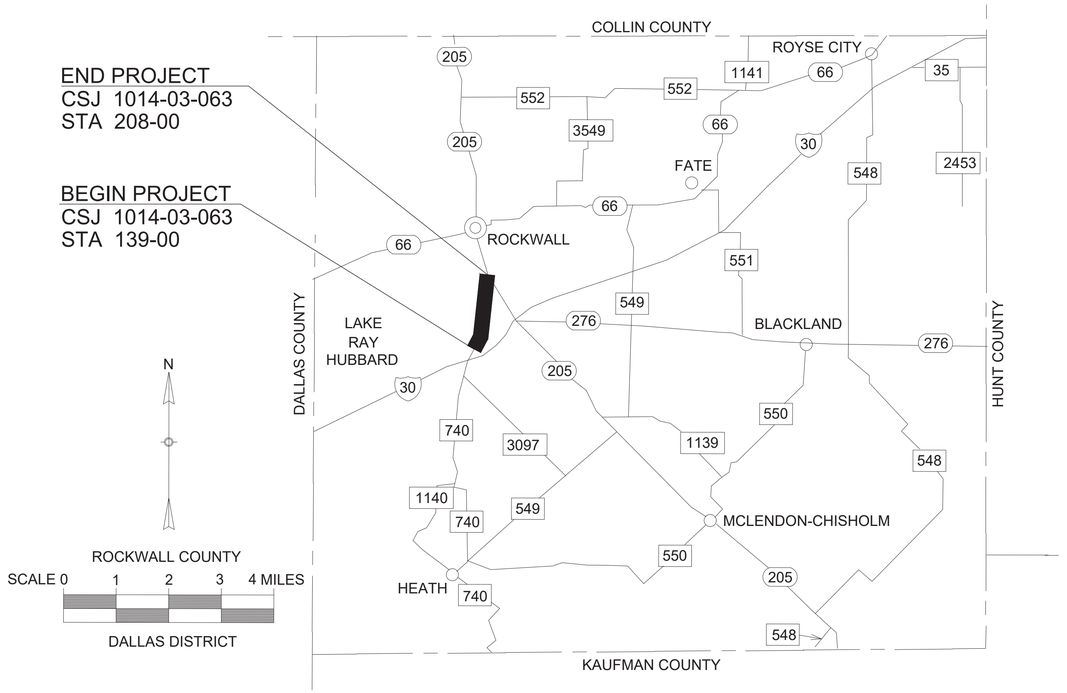
NO. C 1014-03-063
CSJ: 1014-03-063

FM 740 RIDGE RD
ROCKWALL COUNTY

LIMITS: FROM STATE HIGHWAY 205
TO I30 FRONTAGE ROAD

ROADWAY = 9,483 FT. = 1.796 MI.

TYPE OF WORK: THE SCOPE OF WORK CONSISTS OF THE CONSTRUCTION OF LANDSCAPING ACTIVITIES TO INCLUDE LANDSCAPING AND SCENIC ENHANCEMENTS INCLUDING TREES, SHRUBS, GROUND COVERS, AND IRRIGATION ON FM 740 FROM IH 30 TO SH 205.



DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT		HIGHWAY NO.
	6	F 2026(971)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	1
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

DESIGN SPEEDS = N/A
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
ADT = N/A

NOTE:

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, SEPTEMBER 1, 2024, AND THE CONTRACT PROVISIONS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, OCTOBER 23, 2023)

MESA

T.B.A.E. REGISTRATION # BR138

SUBMITTED FOR LETTING 04/15/2026

CONSULTANT LANDSCAPE ARCHITECT

City of Rockwall
The New Horizon

RECOMMENDED FOR LETTING 4/16/26

DIRECTOR PARKS, RECREATION ANIMAL SERVICES
CITY OF ROCKWALL

Texas Department of Transportation

RECOMMENDED FOR LETTING 4/15/2026
Signed by: LANE SELMAN , P.E.
DIRECTOR OF MAINTENANCE
29F92BAFC501498...

RECOMMENDED FOR LETTING 4/17/2026
Signed by: James P. Campbell , P.E.
DIRECTOR OF TRANSPORTATION PLANNING & DEVELOPMENT
9867C1C1098BAFC...

RECOMMENDED: FOR LETTING 4/16/2026
Signed by: Nicholas Wadlington , P.E.
AREA ENGINEER
4908C4BE0B87413...

APPROVED FOR LETTING 4/17/2026
DocuSigned by: Ceason Clemens , P.E.
DISTRICT ENGINEER
A879E0D10CD6464...

WORK WAS COMPLETED ACCORDING TO THE PLANS AND CONTRACT.

FINAL PLANS ONLY P. E
SIGNATURE OF REGISTRANT DATE

EQUATIONS: NONE
EXCEPTIONS: NONE
RAILROAD CROSSINGS:
UNION PACIFIC DALLAS GARLAND & NORTHEASTERN RAILROAD
STA 167+24

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3B	ADD ALT EXISTING STREET VIEWS
3C	SITE CONTEXT - 1
3D	SITE CONTEXT - 2
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6	ESTIMATE AND QUANTITY SHEETS
7	QUANTITY SUMMARY SHEETS
II.	**TRAFFIC CONTROL PLAN**
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9	BARRICADE AND CONSTRUCTION PROJECT LIMIT
10	BARRICADE AND CONSTRUCTION WORK SPEED LIMIT
11	BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES
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13	BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
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19	TREATMENT FOR VARIOUS EDGE CONDITIONS
20	TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL
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SHEET #	DESCRIPTION
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SHEET #	DESCRIPTION
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94	MEDIAN - 13 IRRIGATION PLAN
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	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

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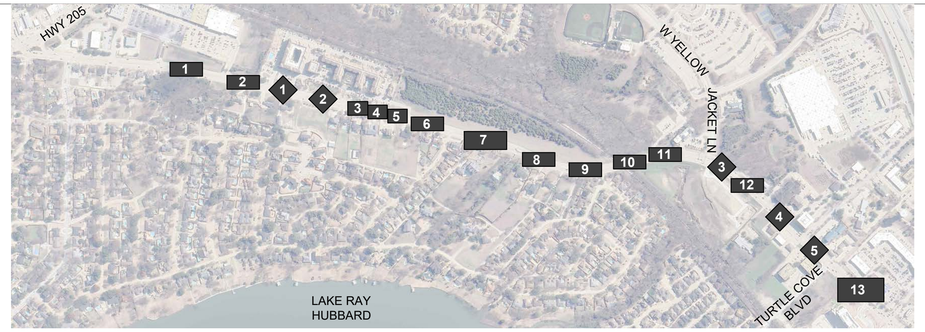
INDEX OF SHEETS

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	2
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

LEGEND

BASE BID

ADD ALT



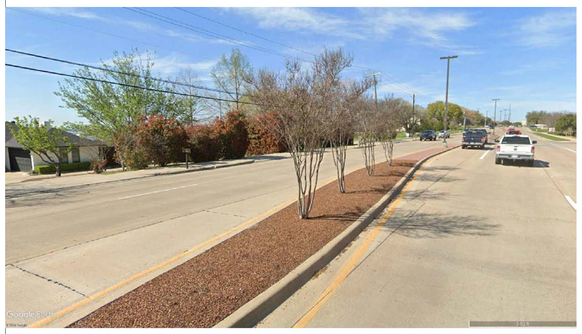
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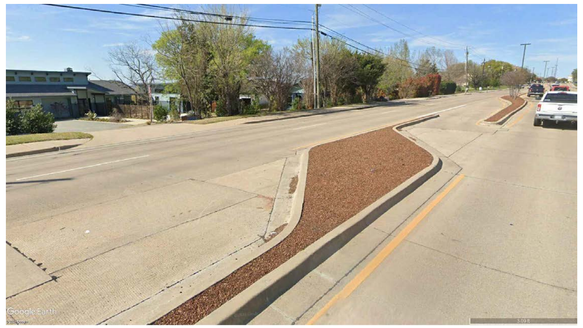
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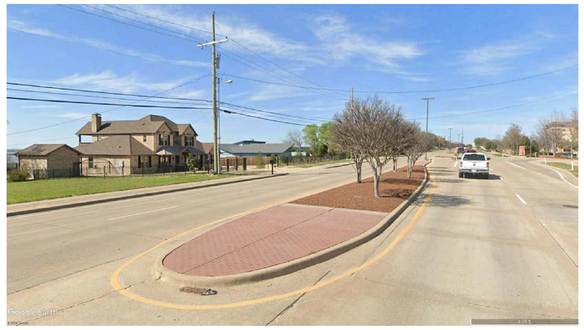
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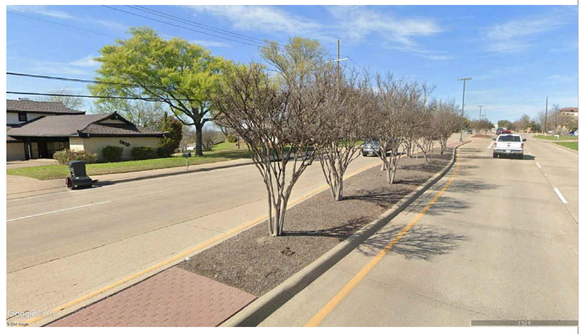
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4 MEDIAN INCLUDED BASE BID



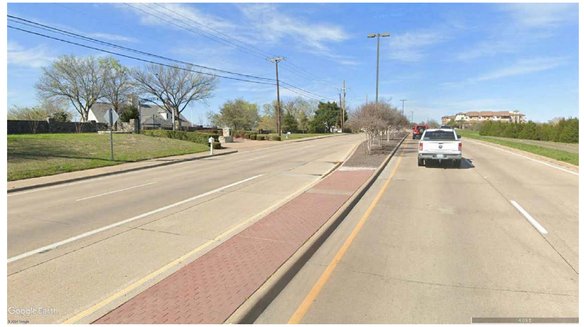
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6 MEDIAN INCLUDED BASE BID



7 MEDIAN INCLUDED BASE BID



8 MEDIAN INCLUDED BASE BID



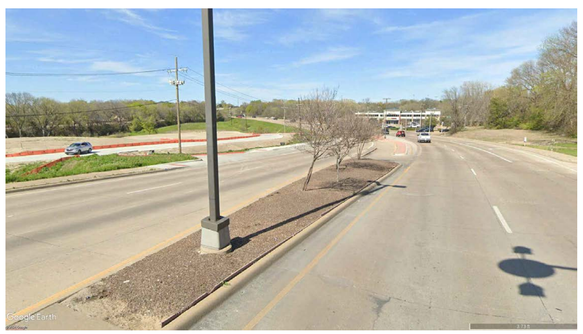
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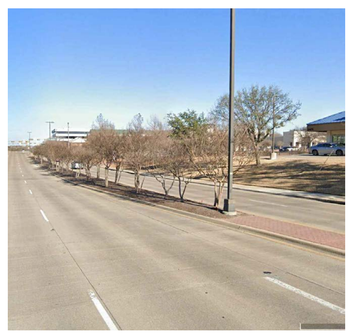
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11 MEDIAN INCLUDED BASE BID



12 MEDIAN INCLUDED BASE BID



13 MEDIAN INCLUDED BASE BID

	Date	Description



06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

NORTH

0 300 600 1200

SCALE: 1" = 600'-0"

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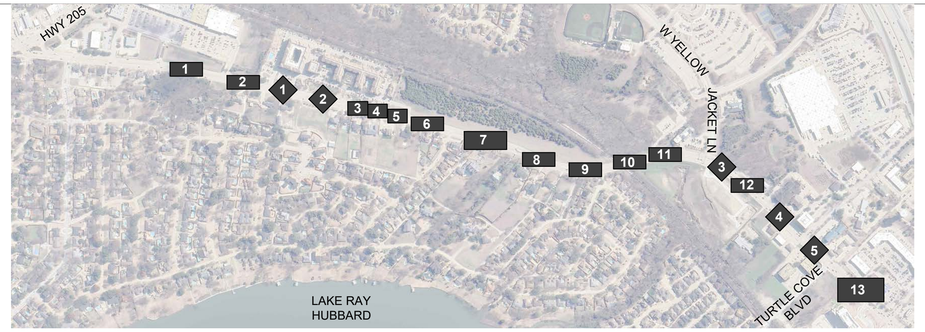
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DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	3A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

LEGEND

BASE BID

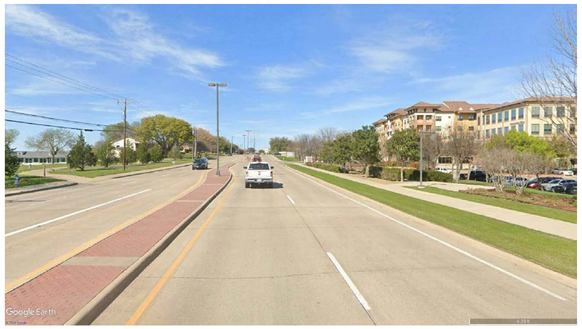
ADD ALT



KEY MAP



1 ADD ALT MEDIAN # 1



2 ADD ALT MEDIAN # 2



3 ADD ALT MEDIAN # 3



4 ADD ALT MEDIAN # 4



5 ADD ALT MEDIAN # 5

	Date	Description



06/12/2026

Signature of Registrant & Date

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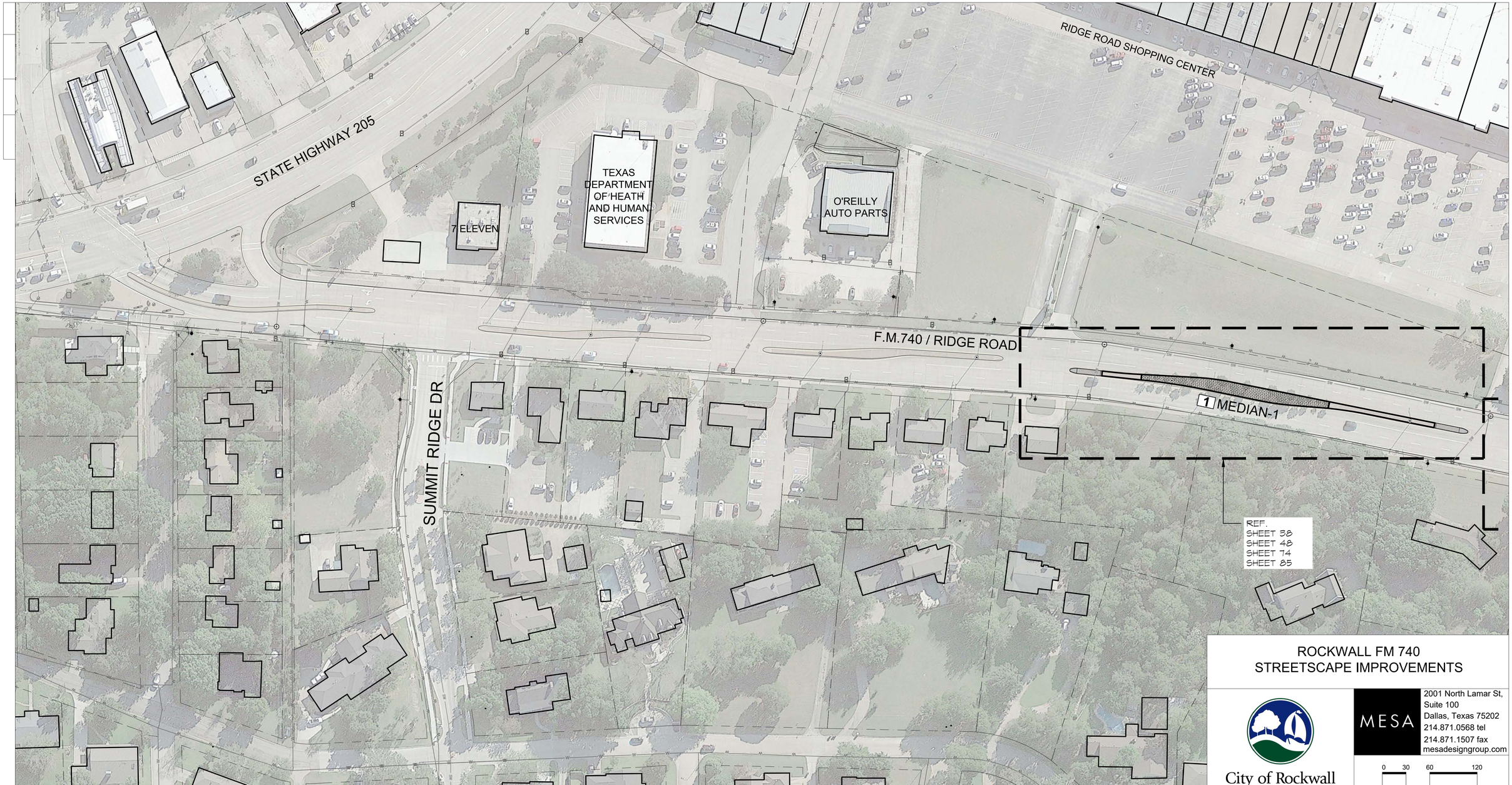
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SCALE: 1" = 600'-0"

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ADD ALT EXISTING STREET VIEWS

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	3B
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



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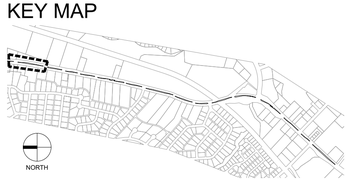
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- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Site Context Plan - 1 | A

Scale - 1"= 60'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

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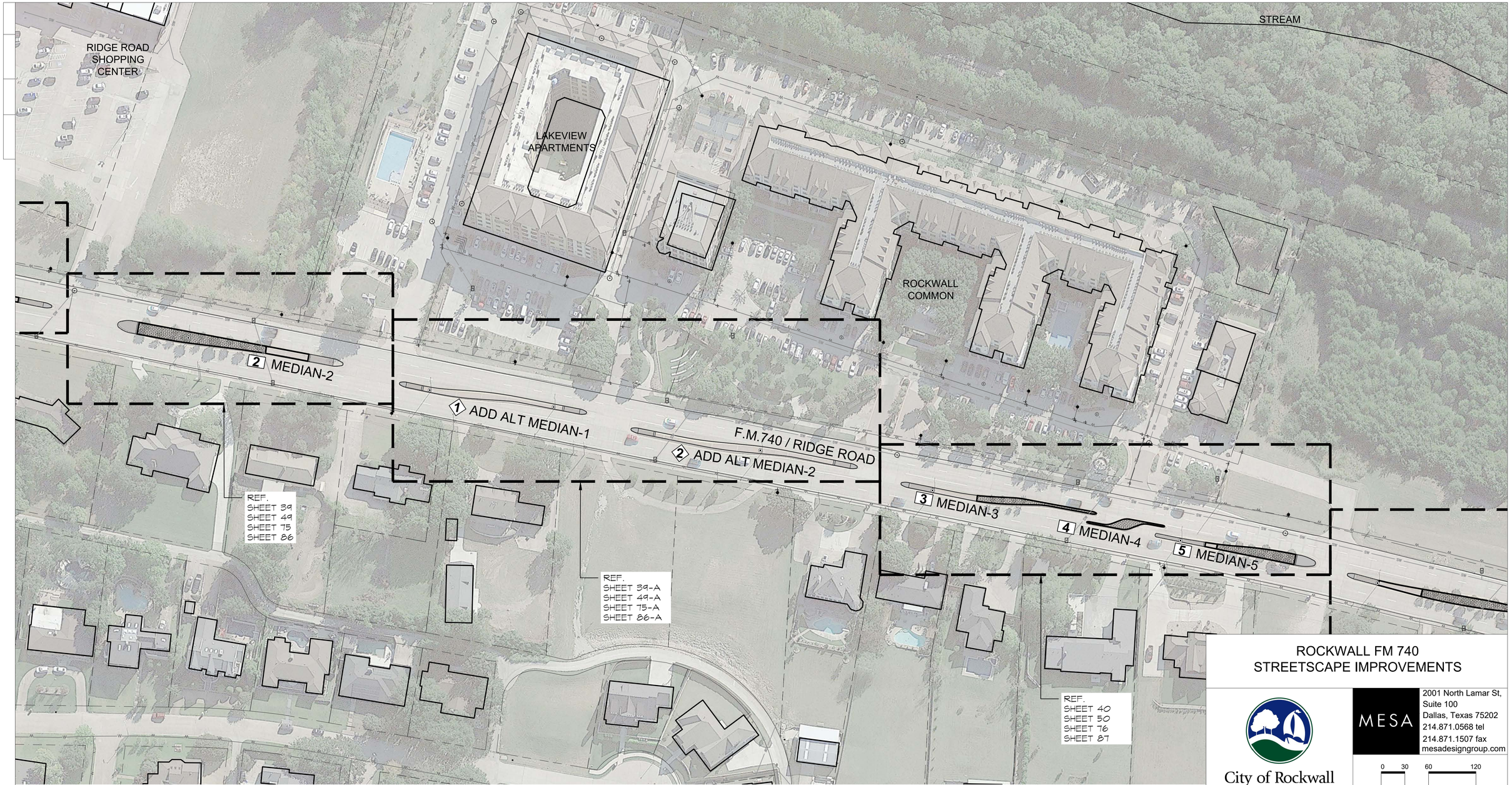
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SITE CONTEXT - 1

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	3C
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



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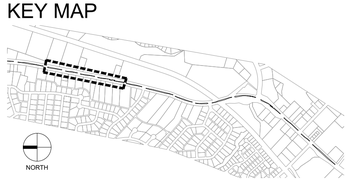
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Site Context Plan - 2 | A

Scale - 1"= 60'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

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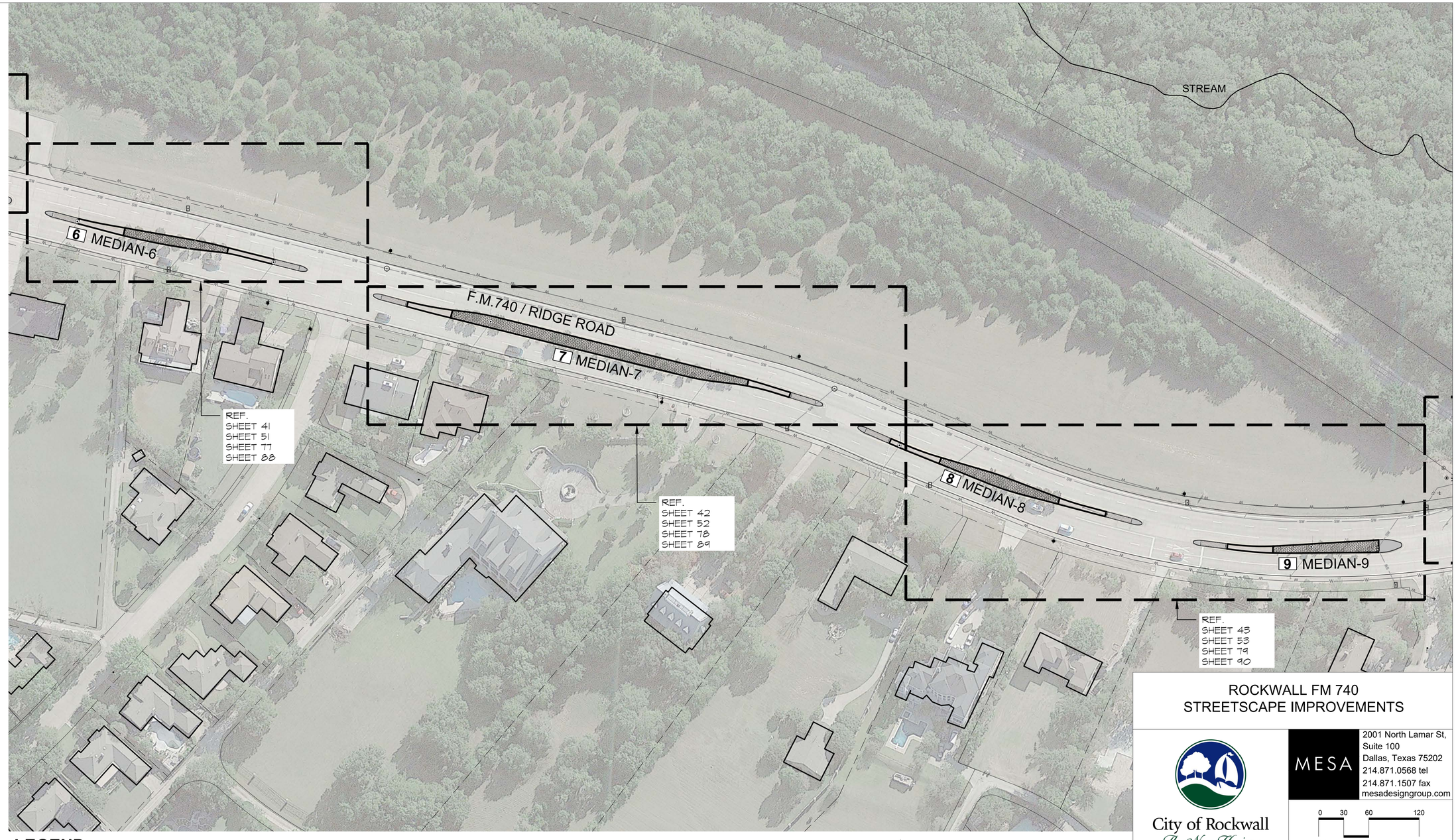
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SCALE: 1" = 60'-0"

Texas Department of Transportation

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SITE CONTEXT - 2

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	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	3D
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



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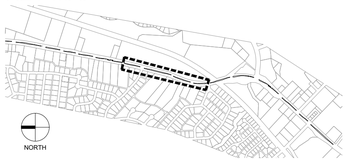
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Site Context Plan - 3 | A

Scale - 1"=60'-0"

NORTH

KEY MAP



	Date	Description

STATE OF TEXAS · REGISTERED LANDSCAPE ARCHITECT · STAN R. COMAN · 2119

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 30 60 120

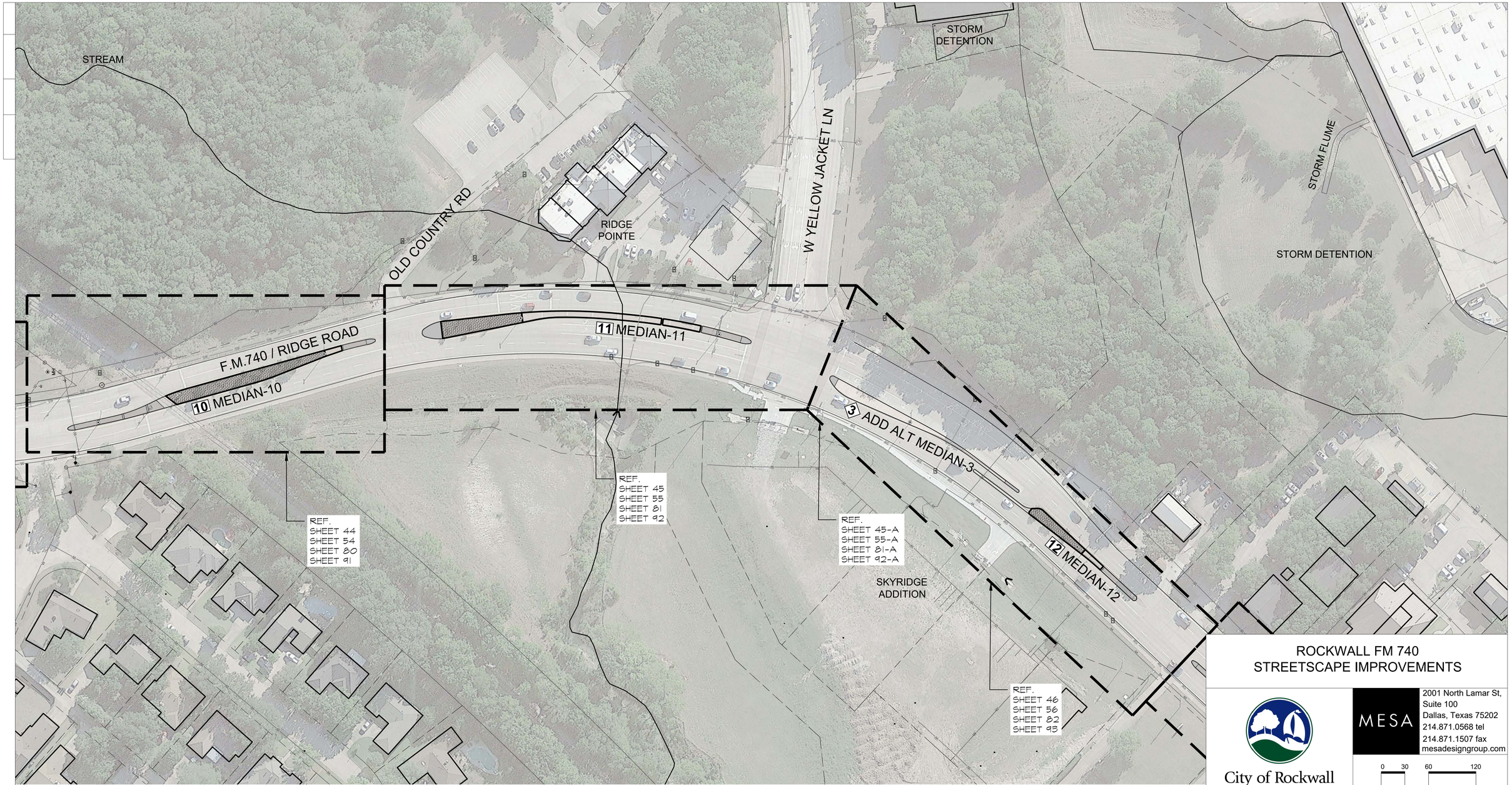
SCALE: 1" = 60'-0"

Texas Department of Transportation

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SITE CONTEXT - 3

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	3E
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



LEGEND:

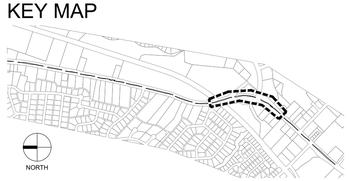
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- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Site Context Plan - 4 | A

Scale - 1"= 60'-0"

NORTH

KEY MAP



	Date	Description



06/12/2026

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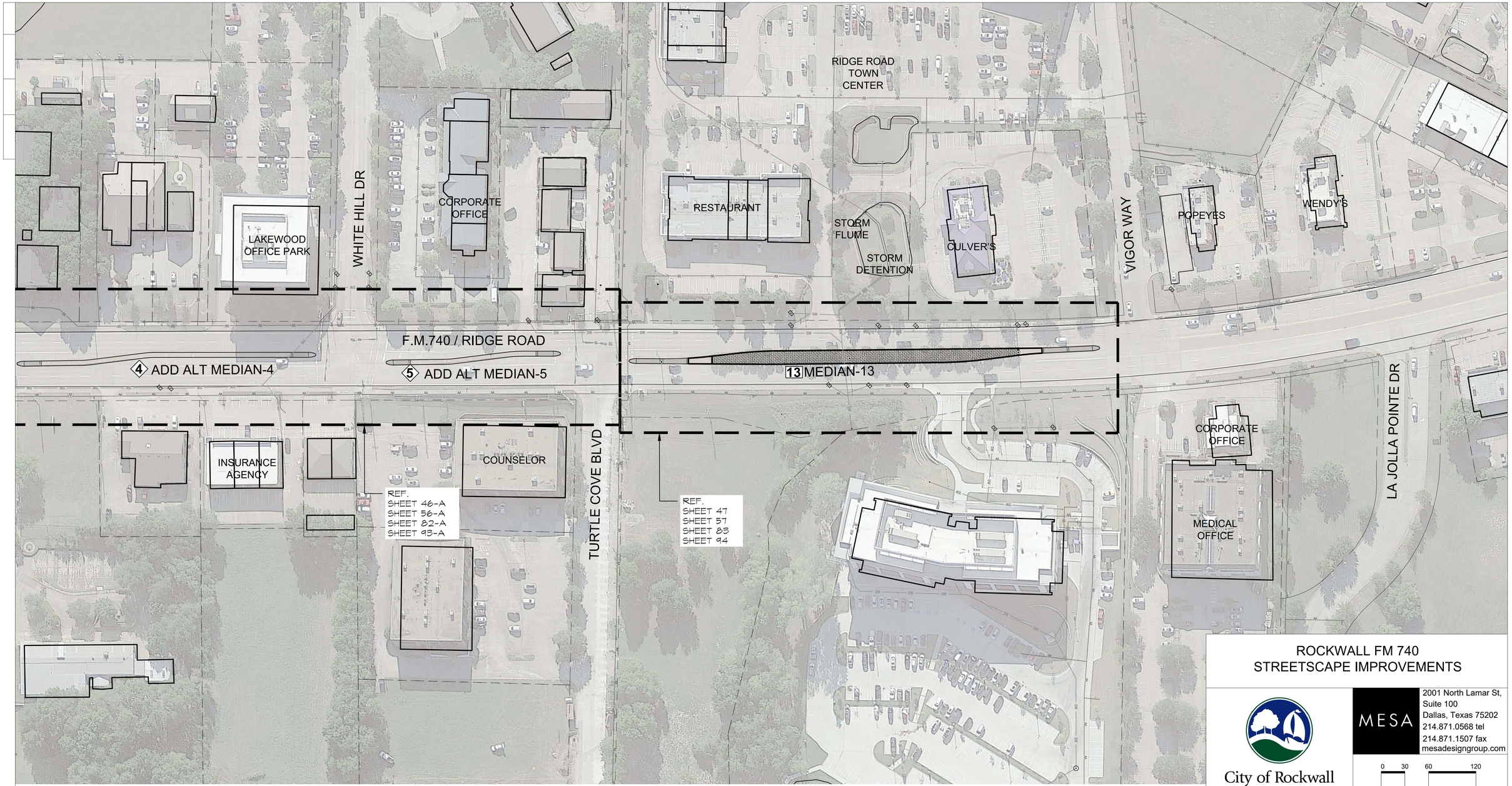
SCALE: 1" = 60'-0"

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SITE CONTEXT - 4

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	3F
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



LEGEND:

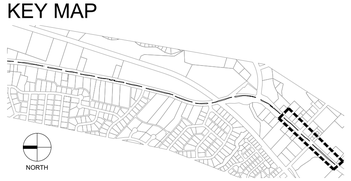
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Site Context Plan - 5 | A

Scale - 1"=60'-0"

NORTH

KEY MAP



	Date	Description

06/12/2026

Signature of Registrant & Date

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SCALE: 1" = 60'-0"

Texas Department of Transportation

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SITE CONTEXT - 5

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	3G
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

GENERAL

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is 1.00 acres. However, the Total Disturbed Area (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

This project required no formal consultation or permitting with environmental resources agencies. There is a high probability that an environmentally sensitive area could be encountered on the contractor designated Project-Specific Locations (PSL) for this project (haul roads, equipment staging areas, borrow pits, disposal sites, field offices, storage areas, parking areas, etc.). Item 7.6 “Project-Specific Locations”, provides a listing of regulatory agencies that may need to be contacted regarding this project.

Install traffic marking signs prior to sealcoat application and remove within three days after placement of traffic markings.

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

Contractor questions on this project are to be addressed to the following individual(s):

Travis Sales - City of Rockwall
Director of Parks Recreation and Animal Services
TSales@rockwall.com
972-772-6467

Contractor questions will be accepted through email, phone, and in person by the above individuals.

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to City of Rockwall’s Public FTP at the following Address:
https://www.rockwall.com/finance.asp

CSJ: 1014-03-063 **Sheet**

County: Rockwall

Highway: FM 740

All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

Paper copies of cross-sections may be produced by using the provided .pdf file located on the above FTP Website at the bidders’ expense and at copying companies. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

Item 5:
Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communications & control maintained by TxDOT, call the TxDOT Traffic Signal Office (214-320-6682) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Landscape Office (214-320-6205) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages when utilities are damaged due to Contractor’s negligence including, but not limited to, repair or replacement at the Contractor’s expense.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Place construction stakes/station markings at intervals of no more than 100 feet or as directed by the Engineer. Place stakes and markings so as not to interfere with normal construction operations.

Submit all shop drawings, working drawings, or other documents which require review sufficiently in advance of scheduled construction to allow no less than thirty (30) calendar days for review and response.

When a precast or cast-in-place concrete element is included in the plans, a precast concrete alternate may be submitted in accordance with “Standard Operating Procedure for Alternate Precast Proposal Submission” found online at https://www.txdot.gov/inside-txdot/forms-publications/consultants-contractors/publications/bridge.html#design. Acceptance or denial of an alternate is at the sole discretion of the Engineer. Impacts to the project schedule and any additional costs resulting from the use of alternates are the sole responsibility of the Contractor.

Item 7:
Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

Perform all electrical work in accordance with the National Electrical Code and Texas Department of Transportation Specifications.

Consult with appropriate electric company representatives according to their respective area to coordinate electrical services installations.

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS 2118 RYAN R. COWAN

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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GENERAL NOTES - 1

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	4A
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

No significant traffic generator events identified.

Item 8:
This Project will be a Standard work week in accordance with Article 8.3.1.1.

Meet weekly with the engineer to notify him or her of planned work for the upcoming week.

Item 100:
Remove the existing roadway small signs, delineators and object markers as shown on the plans, or as directed, during construction within the right of way. Small sign, delineator and object marker removals are subsidiary to this Item.

The limits of preparing right of way will be measured from Sta. 139+00 to Sta. 208+00 along the centerline of construction.

Item 160:
Sequence construction operations to salvage topsoil from one location and spread on areas ready to receive topsoil. Keep stockpiling of topsoil to a minimum.

Use fertile clay or loam from the project site not more than six inches below natural grade as topsoil.

Item 161:
Provide tickets representing quantity of compost delivered to site.

Item 192:
No planting shall occur between June 1st and September 15th without written approval from the Engineer.

Perform soil percolation test at least 24 hours prior to planting trees in plant pits. Excavate plant pit and fill entirely with water. Inspect planting pit within 24 hours to verify water has percolated into surrounding soil. In the event the water is present after 24 hours, contact Engineer before continuing tree planting in pits.

Prior to installing any plant material, ensure the irrigation system (if included in project) is pressurized up to the valves.

Begin the 90-day maintenance period only after all live plant material and functional irrigation systems have been installed as shown on plans.

Item 427:
Finish concrete structures surface area I with an opaque sealer of the color(s) shown elsewhere in the plans in accordance Item 427.

CSJ: 1014-03-063 Sheet

County: Rockwall

Highway: FM 740

Apply a 4-SF sample of each color on the project surfaces for approval. Adjust color as required by Engineer to compensate for surroundings and natural lighting conditions on the project site.

Ensure that surfaces are free of weak surface material, curing compounds and other surface contaminants prior to coating.

FORM LINER FINISHES: Place architectural concrete treatments as shown. Placement is subsidiary to this item.

Where used, provide fractured fin/ribs/striations that are continuous with no apparent curves or discontinuities. Variations of the fractured ribs from true vertical exceeding ¼" for each 4'-0" of panel height are not acceptable.

Provide form liners that release without leaving pieces of liner material on the concrete and without pulling or breaking concrete from the textured surface. Provide form release agents as recommended by the manufacturer. Replace form liners as directed that have become damaged or worn. Replacement of form liners is considered incidental to the work and no additional compensation is provided.

No horizontal splices in the form liner are permitted. Vertical splices may occur only in valleys between fractured ribs.

Provide sample panels a minimum of ten days in advance of starting construction of the textured concrete surfaces. Construct sample panel(s) in accordance with Item 427.4.3.5 “Form Liner Finish” using each type of approved form liner. Sample panels must meet the requirements of the plans and specifications and be approved before any construction form liners may be ordered, obtained or used. Provide panels having a textured portion at least 5'-0" by 5'-0" with a representative un-textured surrounding surface. If directed, construct and finish additional test panels until a satisfactory concrete surface texture is obtained.

The approved sample panel is the standard of comparison for the production concrete surface texture. If directed, build a new test panel to demonstrate acceptability of any proposed change in construction method.

Tool or replace areas requiring surface treatment that do not match their associated sample panels. Upon completion, tooled or replaced panels must match the associated sample panel. Tooling or replacement is at the contractor's expense.

For proper placement of the expansion joint behind the rail, omit surface finish from the top of T551 (RW) (DAL) rail to bottom of panel as directed.

Joint reveal details and location may vary slightly from what is shown to match the adjacent MSE walls as directed. No additional compensation will be allowed.

Item 500:
Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
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GENERAL NOTES - 2

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	4B
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

Item 502:
The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Access will be provided to all business and residences at all times. Where turning radii are limited during phased construction at intersections, provide all weather surfaces such as RAP or base in turning movements to accommodate and to protect the traffic from edge drop-offs. Materials, labor, maintenance and removal for these temporary accesses and radii will not be paid for directly but will be considered subsidiary to the various bid items.
Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

Do not commence work on the road before sunrise. Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the engineer.
When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

As approved by the Engineer, provide uniformed off duty police officers and squad cars during lane or ramp closures, night time work or other situations that indicate a need for additional traffic control to protect the traveling public or the construction workforce. Provide documentation such as payroll, log sheets with signatures and badge number, or invoices from the government entity providing the officers for reimbursement. Complete the weekly tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided. Reimbursement will not be made for coordination fees charged by any party.

Holiday restrictions – The Engineer may decide that no lane closures or construction operations shall be allowed during the restricted periods listed in the following holiday schedule. TxDOT has the right to lengthen, shorten, or otherwise modify these restricted periods as actual, or expected, traffic conditions may warrant. Working days will not be charged for these restricted periods. No additional compensation will be allowed for these closures (i.e., overhead, delays, stand-by, barricades or any other associated cost impacts).

- New Year's Eve and Day (5 am on December 31 thru 10:00 pm January 1)
- Easter Holiday weekend (5 am on Friday thru 10:00 pm Sunday)
- Memorial Day weekend (5 am on Friday thru 10:00pm Monday)
- Independence Day (5 am on July 3 thru 10:00 pm on July 5)
- Labor Day weekend (5 am on Friday thru 10:00 pm Monday)
- Thanksgiving Holiday (5 am on Wednesday thru 10:00 pm Sunday)
- Christmas Holiday (5 am on December 23 thru 10:00 pm December 26)

CSJ: 1014-03-063 Sheet

County: Rockwall

Highway: FM 740

Item 506:
Take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

Concrete Washouts are required per the CGP. The Concrete Washout Area(s) structural controls must consist of temporary berms, temporary shallow pits, and/or temporary storage tanks to prevent contaminated runoff and must be lined as to prevent contamination of underlying soil. Ensure pits properly maintained including removal of concrete as not to allow over flow. The location(s) of washout area will be approved by the Engineer. When washout pits are no longer needed, they will be removed and area will be restored to original condition. This work, materials and labor will not be measured or paid for directly but will be subsidiary to Item 506, "Temporary Erosion, Sedimentation, and Environmental Controls."

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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GENERAL NOTES - 3

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GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	4C
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

GENERAL NOTES:

1. WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING UTILITIES ARE TO BE REPAIRED IMMEDIATELY AT NO ADDITIONAL EXPENSE TO THE OWNER. MESA ASSUMES NO RESPONSIBILITY FOR ANY UTITILITES NOT SHOWN ON PLANS.
3. ALL PROPOSED AND FINISHED GRADES ARE BASED ON INFORMATION PROVIDED BY THE OWNER'S SURVEY AND/OR CIVIL ENGINEER. ANY DISCREPANCIES IN ACTUAL FIELD MEASUREMENTS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
4. PRIOR TO COMMENCEMENT OF HARDSCAPE CONSTRUCTION, ALL PIERS, FOOTINGS, AND WALLS ARE TO BE SURVEYED, LAID OUT, AND STAKED IN THE FIELD FOR REVIEW BY LANDSCAPE ARCHITECT. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEMOLITION, ADJUSTMENTS, OR RECONSTRUCTION OF HARDSCAPE CONSTRUCTION RESULTING FROM UNAUTHORIZED CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL ALL ITEMS PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED BY MESA ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTORS ARE TO BID PER THEIR OWN VERIFIED QUANTITIES AND PER THE INTENT OF THE DRAWINGS. NOTIFY LANDSCAPE ARCHITECT OF ANY MAJOR DISCREPANCIES.

PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL STAKE OUT LOCATIONS OF ALL TREES TO BE PLANTED FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLING. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST TREE LOCATIONS IN THE FIELD AS NECESSARY.
2. SHRUB/GROUNDCOVER BEDS SHALL BE STAKED FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATION AND OR BED PREPARATION.
3. LANDSCAPE CONTRACTOR TO INSTALL LANDSCAPE EDGING BETWEEN PLANTING BEDS, LAWNS, NATIVE GRASS AREAS AND GRAVEL AREAS.
4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE LANDSCAPE ARCHITECT OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THE DRAWINGS.
6. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH OTHER CONTRACTORS ON SITE AS REQUIRED TO ACCOMPLISH ALL PLANTING OPERATIONS.
7. ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION AND MUST BE REPLACED WITH PLANT MATERIAL OF SAME VARIETY AND SIZE IF DAMAGED, DESTROYED, DEAD AND/OR REMOVED.
8. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND REMOVAL OF DEBRIS PRIOR TO PLANTING IN ALL AREAS.
9. FINAL FINISHED GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TOPSOIL REQUIRED TO CREATE A SMOOTH CONDITION SUITABLE FOR PLANTING.
10. ALL QUANTITIES LISTED IN THE DRAWINGS ARE FOR INFORMATION ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL QUANTITIES AND TO PROVIDE ALL MATERIALS NECESSARY FOR FULL COVERAGE IN ALL PLANTING AREAS AS SPECIFIED ON THE DRAWINGS.
11. A FULLY AUTOMATED IRRIGATION SYSTEM SHALL BE PROVIDED FOR ALL PLANTING AREAS AND IN OPERATION PRIOR TO INSTALLATION OF ANY PLANT MATERIAL OTHER THAN CANOPY TREES.
12. PLANT MATERIAL SHALL BE MEASURED AND SIZED ACCORDING TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS APPROVED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE, INC. CALIPER SIZE OF CANOPY TREES ARE TO BE MEASURED PER LOCAL CITY LANDSCAPE ORDINANCE.
13. ALL PLANT MATERIAL SHALL CONFORM TO THE SIZE SPECIFICATIONS (CALIPER, HEIGHT AND SPREAD) GIVEN IN THE PLANT SCHEDULE AND SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTING TO BE IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. ANY PLANT SUBSTITUTION SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE.
14. TREES OVERHANGING INTO THE PUBLIC R.O.W. SHALL HAVE A MINIMUM CLEAR TRUNK HEIGHT OF FOURTEEN (14) FEET OVER STREETS, DRIVE AISLES, ALLEYS AND FIRE LANES.
15. LANDSCAPE CONTRACTOR IS RESPONSIBLE TO REVIEW SITE ENVIRONMENTAL CONDITIONS PRIOR TO AND DURING INSTALLATION OF PLANT MATERIAL. ANY DISCREPANCIES OR CONCERNS BETWEEN THE ENVIRONMENTAL SITE CONDITIONS (IE., SOIL TYPE, WATER, CLIMATE, WIND, SUN EXPOSURE ETC.) AND THE PLANT MATERIAL SPECIFIED WITHIN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND/OR OWNER AND SHALL BE DONE SO IN WRITING. AT THIS TIME, CONTRACTOR CAN PROVIDE SUGGESTIVE SOLUTIONS OR ALTERNATIVE PLANT MATERIAL FOR SUBSTITUTION. LANDSCAPE ARCHITECT TO REVIEW CONDITIONS AND INFORMATION SUBMITTED BY CONTRACTOR AND WILL ISSUE A DIRECTIVE.. SHOULD PLANT MATERIAL DIE BECAUSE OF ENVIRONMENTAL CONDITIONS DESCRIBED ABOVE THE LANDSCAPE CONTRACTOR ASSUMES ALL WARRANTY AND GUARANTY OF THE PLANT MATERIAL INSTALLED.

IRRIGATION NOTES

1. ALL LANDSCAPE PLANTING AREAS ARE TO BE IRRIGATED BY A FULLY AUTOMATED IRRIGATION SYSTEM.
2. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE PLANTINGS.
3. SHRUB AND GROUNDCOVER AREAS TO BE IRRIGATED WITH EITHER 12" SPRAY POP-UPS AND/ OR A LANDSCAPE DRIPLINE SYSTEM.
4. REFER TO IRRIGATION SYSTEM DRAWINGS AND SPECIFICATIONS. IF IRRIGATION SYSTEM DRAWINGS AND SPECIFICATIONS ARE NOT INCLUDED, LANDSCAPE CONTRACTOR TO PROVIDE DESIGN BUILD IRRIGATION SYSTEM PLANS.

GRADING NOTES

1. WRITTEN DIMENSIONS AND GRADES PREVAIL OVER SCALED DIMENSIONS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES AND LINE RUNS.
3. MESA DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION OR GRADING SHOWN ON SURVEY`S OR CIVIL ENGINEER`S PLANS. ALL PROPOSED AND FINISHED GRADES ARE BASED ON INFORMATION PROVIDED BY THE OWNERS SURVEY AND/OR CIVIL ENGINEER. ANY DISCREPANCIES IN FIELD MEASUREMENTS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER IMMEDIATELY.
4. CONTRACTOR IS RESPONSIBLE FOR ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED BY MESA DESIGN GROUP ARE PROVIDED FOR CONVENIENCE ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE. LANDSCAPE ARCHITECT SHOULD BE NOTIFIED OF ANY GRADING DISCREPANCIES. CONTRACTORS ARE TO BID THEIR OWN VERIFIED QUANTITIES.

ALTERNATES

ADD ALT 1

1. (ADD BID ITEM #100 DESCRIPTION CODE 7001), TO ADD (19) STATION OF PREPARING RIGHT OF WAY FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
2. (ADD BID ITEM #192 DESCRIPTION CODE 7007), TO AMEND AN ADDITIONAL (2,123) SQUARE YARDS OF SOIL FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
3. (ADD BID ITEM #556 DESCRIPTION CODE 7009), TO ADD (1,133) FEET OF 6" PIPE UNDERDRAINS (TY 9) FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
4. (ADD BID ITEM #194 DESCRIPTION CODE 7011), TO ADD (810) SQUARE FEET OF STONE SLABS ACTING AS ROADSIDE AMENITY FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
5. (ADD BID ITEM #192 DESCRIPTION CODE 7059), TO ADD (23) MIN 3" CALIPER TREES, COMPLETE AS SHOWN.
6. (ADD BID ITEM #192 DESCRIPTION CODE 7009), TO ADD (624) SQUARE YARDS PF PLANT BED PREP FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
7. (ADD BID ITEM #192 DESCRIPTION CODE 7016), TO ADD (169) FEET OF LANDSCAPE EDGING, COMPLETE AS SHOWN.
8. (ADD BID ITEM #192 DESCRIPTION CODE 7022), TO ADD (91) SQUARE YARDS OF LOOSE AGGREGATE GROUNDCOVER FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
9. (ADD BID ITEM #192 DESCRIPTION CODE 7026), TO ADD (6,990) 4" FLAT SIZED PLANTERS FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
10. (ADD BID ITEM #192 DESCRIPTION CODE 7026), TO ADD (9,169) 14/16 SIZED BULB PLANTERS FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
11. (ADD BID ITEM #192 DESCRIPTION CODE 7028), TO ADD (24) 3 GALLON SIZED PLANTERS FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
12. (ADD BID ITEM #192 DESCRIPTION CODE 7002), TO ADD (624) SQUARE YARDS OF MULCH FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
13. (ADD BID ITEM #192 DESCRIPTION CODE 7003), TO ADD (341) CUBIC YARDS OF PLANTING SOIL MIX FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
14. (ADD BID ITEM #170 DESCRIPTION CODE 7001), TO ADD ADDITIONAL IRRIGATION FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
15. (ADD BID ITEM #618 DESCRIPTION CODE 7035), TO ADD (165) LINEAR FEET OF BORING FOR 6" PVC CONDUIT (SCH40) FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.
16. (ADD BID ITEM #618 DESCRIPTION CODE 7045), TO ADD (145) LINEAR FEET OF BORING FOR 6" PVC CONDUIT (SCH40) FOR (5) ADD ALT MEDIANS, COMPLETE AS SHOWN.

ADD ALT 2

17. (ADD BID ITEM #506 DESCRIPTION CODE 7026) ALTERNATE, TO INCREASE SPACING OF TEXAS SEDGE TO 12 INCHES ON CENTER, COMPLETE AS SHOWN.

REQUIRED SUBMITTALS

SHOP DRAWINGS:

1. STONE BLOCKS

PRODUCT SUBMITTALS

1. CUT SHEETS FOR ALL IRRIGATION SYSTEM COMPONENTS AS PER SPECIFICATIONS.
2. CUT SHEETS, ANALYSIS, TEST REPORTS AND PRODUCT SAMPLES FOR ALL BEDDING SOIL MIXES, MULCH AND FERTILIZERS AS PER SPECIFICATIONS.
3. 1 GALLON BAG PRODUCT SAMPLE FOR DECORATIVE GRAVEL SAMPLES OF CANOPY TREES AND SHRUBS. CONTRACTOR TO FIRST SUBMIT PHOTOS OF TREES, SHRUBS AND SOURCE NURSERY INFORMATION AS PER SPECIFICATIONS.
4. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR ALL STONE.
5. STONE QUARRY BLOCKS AND NOSING.
6. SUBMIT 36" WIDE X 14" DEEP X 36" LENGTH PRODUCT SAMPLES OF QUARRY BLOCKS AND STONE NOSING SLABS COLOR RANGE.
7. PROVIDE 1 SAMPLE FOR EACH COLOR AS REQUIRED TO DEMONSTRATE FULL COLOR RANGE OF MATERIAL A. SUBMIT CLEAN, WASHED 10 LB BAGS OF DECORATIVE STONE AGGREGATES.

MOCK-UPS:

1. STONE QUARRY BLOCKS:
   1.1. PROVIDE A MOCKUP OF WALL WITH JOINTS COMPLETE AT QUARRY, DEMONSTRATING THE RANGE OF COLOR, TEXTURE, AND WORKMANSHIP TO BE EXPECTED IN THE COMPLETED WORK USING STONE AND JOINTING AS SHOWN AND SPECIFIED IN PLANS, MOCKUP TO BE PROVIDED WITHIN 2 WEEKS OF AWARD OF CONTRACT. UPON APPROVAL MATERIAL WILL BE UTILIZED AT CONTRACT PROJECT SITE.
2. STONE NOSINGS:
   2.1. PROVIDE A MOCKUP OF STONE NOSING 18 FEET IN LENGTH AT QUARRY, DEMONSTRATING THE RANGE OF COLOR, TEXTURE, AND WORKMANSHIP TO BE EXPECTED IN THE COMPLETED WORK USING STONE AND JOINTING AS SHOWN AND SPECIFIED IN PLANS, MOCKUP TO BE PROVIDED WITHIN 2 WEEKS OF AWARD OF CONTRACT. UPON APPROVAL, MATERIAL WILL BE UTILIZED AT CONTRACT PROJECT SITE.

MATERIAL LEGEND:

STONE

S-1 QUARRY BLOCK

SUPPLIER: QUARRY STONE SUPPLY OR OTHER APPROVED SUPPLIER
CONTACT: MARK ALLEN
PHONE: 214-802-6608
EMAIL: MARKQSS@AOL.COM

PRODUCT: LUEDERS BUFF LIMESTONE QUARRY BLOCK; SOURCED FROM +/- 20" AND +/- 28" LEDGE AS NOTED IN DRAWINGS; CUT (4) SIDES; TOP AND BOTTOM TO BE NATURAL ROUGHBACK; COLOR RANGE TO BE CONSISTENT; CONTRACTOR TO PROVIDE SAMPLES OF FULL COLOR RANGE AND MOCK UP FOR APPROVAL BY CITY AND LANDSCAPE ARCHITECT PRIOR TO ORDERING MATERIAL; REFER TO DRAWINGS FOR SIZES, SHAPES, LAYOUT AND DETAILS.

S-2 MEDIAN STONE NOSING SLABS

SUPPLIER: QUARRY STONE SUPPLY OR OTHER APPROVED SUPPLIER
CONTACT: MARK ALLEN
PHONE: 214-802-6608
EMAIL: MARKQSS@AOL.COM

PRODUCT: LUEDERS BUFF LIMESTONE SLABS; SOURCED FROM +/-11" AND +/-14" LEDGE AS NOTED IN DRAWINGS; TOP AND BOTTOM TO BE NATURAL ROUGHBACK; COLOR RANGE TO BE CONSISTENT; CONTRACTOR TO PROVIDE SAMPLES OF FULL COLOR RANGE AND MOCK UP FOR APPROVAL BY CITY AND LANDSCAPE ARCHITECT PRIOR TO ORDERING MATERIAL; REFER TO DRAWINGS FOR SIZES, SHAPES, LAYOUT AND DETAILS.

SOIL

SO-1 SOIL MIX

SUPPLIER: SOIL BUILDING SYSTEMS MAYER MATERIALS OR LIVING EARTH
CONTACT: BARON ABLON

TELE:972-831-8181

EXISTING SOIL TO BE AMENDED WITH SPECIFIED SOIL MIX PER SPECIFICATION SECTION 329310 AND AS NOTED ON SHEET 5.

SOIL TO BE INSTALLED PER MANUFACTURES SPECIFICATIONS. CONTRACTOR TO PROVIDE SUBMITTAL FOR REVIEW.

GRAVEL/COBBLE

G-1 DECORATIVE GRANITE GRAVEL

SUPPLIER: CACTUS CANYON QUARRIES OR APPROVED EQUAL
TELE:1-800-759-8165

PRODUCT: STABILIZED CRUSHED GRANITE GRAVEL: (3" DEPTH) ¾ - MINUS, (1" DEPTH) #2 TOPPING; COLOR- DARK CEDAR. MIX WITH STABILIZER. REFER TO LANDSCAPE PLANS FOR LAYOUT AND DETAILS

STABILIZER BY STABILIZER SOLUTIONS INC. (602-225-5900) OR APPROVED EQUAL; CONTRACTOR TO PROVIDE SUBMITTAL AND MOCK UP FOR REVIEW BY CITY AND LANDSCAPE ARCHITECT.

EDGING

E-1 LANDSCAPE EDGING

SUPPLIER: COLMET
TELE: 1-972-494-3900
EMAIL: SALES@COLMET.COM

PRODUCT: COLMET CLASSIC STEEL EDGING REFER TO LANDSCAPE PLANS FOR LAYOUT AND DETAILS. 1/4" THICK, 6" HEIGHT, 16' LENGTH. COLOR +FINISH: BROWN TEXTURE.

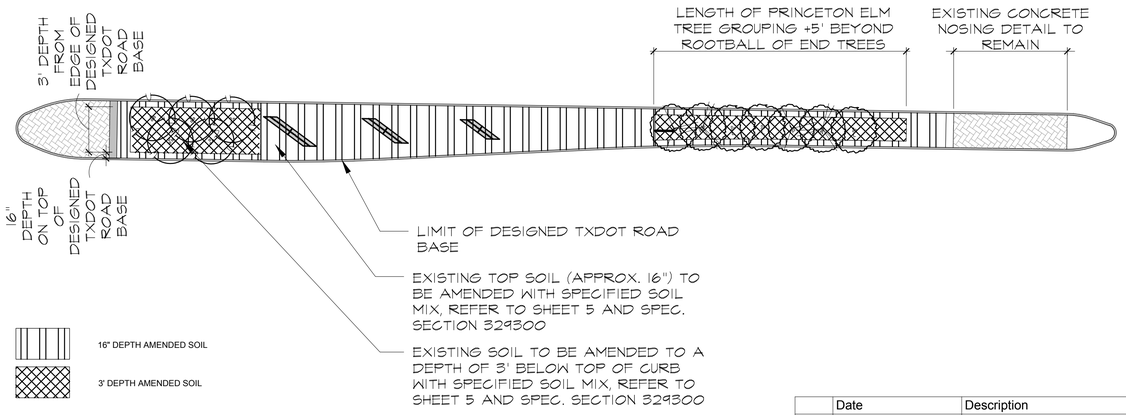
CONTRACTOR TO SHAPE AND BEND THE FORM TO MATCH THE PLAN LAYOUT ON SITE; CONTRACTOR TO PROVIDE SUBMITTAL AND MOCK UP FOR REVIEW BY CITY AND LANDSCAPE ARCHITECT.

EXISTING LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- W — WATER LINE
- SV — STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- SCF — SCF — TEMPORARY SEDIMENT CONTROL FENCE
- ECL — ECL — EROSION CONTROL LOG AT CURB CUT
- ECI — ECI — EROSION CONTROL LOG AT CURB & GRADE INLET
- ECS — ECS — EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- RFD — RFD — TYPE 1 ROCK FILTER DAM

SYMBOLS LEGEND:

- ℄ CENTER LINE
- LIMIT OF WORK
- MATCHLINE
- X/L4.00 — ENLARGEMENT REFERENCE
- DETAIL NUMBER / X/L4.00 / SHEET NUMBER — DETAIL REFERENCE
- X-# — MATERIAL REFERENCE
- X/L4.00 — ELEVATION REFERENCE
- X/L4.00 — SECTION REFERENCE
- P.O.B. — POINT OF BEGINNING/ WORK POINT
- S-00 — COORDINATE POINT
- T-00 — TANGENT POINT
- TW 500.5 — WALL ELEVATION MARKER



	Date	Description



06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

Texas Department of Transportation
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MATERIAL LEGEND

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	
CHECK	CONTROL	SECTION	JOB	5
	1014	03	063	

CSJ: 1014-03-063: FM 740 RIDGE ROAD MEDIAN LANDSCAPE IMPROVEMENT COST ESTIMATE

Item No.	Description Code	Description	Unit	Quantity (Base Bid)	Unit Price	Amount (Base Bid)	Quantity (Add Alt 1)	Amount (Add Alt 1)	Quantity (Add Alt 2)	Amount (Add Alt 2)
		LANDSCAPE								
0100	7001	PREPARING ROW	STA	50.00	$400.00	$20,000.00	19.00	$7,600.00		
0100	7003	PREP ROW (TREE REMOVE) (0"-12" DIA)	EA	138	$500.00	$69,000.00	0	$0.00		
0192	7007	SOIL AMEND	SY	9,833	$1.10	$10,815.82	2,123	$2,335.67		
0556	7009	PIPE UNDERDRAINS (TY 9) (6")	LF	3,245	$32.00	$103,840.00	1,133	$36,256.00		
0194	7010	RDSIDE AMENITY (BOULDER)	EA	39	$2,200.00	$85,800.00	0	$0.00		
0194	7011	RDSIDE AMENITY (STONE SLAB)	SF	5,541	$42.00	$232,710.24	810	$34,020.00		
0192	7052	PLANT MATERIAL (MIN 3" CAL)	EA	121	$1,000.00	$121,000.00	23	$23,000.00		
0192	7009	PLANT BED PREP	SY	2,889	$9.50	$27,444.45	624	$5,926.94		
0192	7016	LANDSCAPE EDGING	LF	764	$12.00	$9,168.00	169	$2,028.00		
0192	7022	LOOSE AGGR GRND COVER	SY	1000	$23.00	$22,997.44	91	$2,095.56		
0192	7026	PLANT MATERIAL (4" FLAT)	EA	14,602	$1.80	$26,283.60	6,990	$12,582.11		
0192	7026	PLANT MATERIAL (14/16 BULBS)	EA	23,959	$1.80	$43,127.03	9,171	$16,507.01		
0192	7026	PLANT MATERIAL (1 GAL)	EA	16,594	$10.00	$165,944.60	3,098	$30,975.00	-5,056	-$50,559.60
0192	7028	PLANT MATERIAL (3 GAL)	EA	239	$30.00	$7,170.00	24	$720.00		
0192	7002	MULCH	SY	2,889	$8.00	$23,111.12	624	$4,991.11		
0192	7003	PLANTING SOIL MIX	CY	1,340	$80.00	$107,221.52	341	$27,290.37		
0170	7001	IRRIGATION SYSTEM	LS	1.0	$160,000.00	$160,000.00	1.0	$40,000.00		
0618	7035	CONDT (PVC) (SCH 40) (2 1/2") (BORE)	LF	0	$52.00	$0.00	165	$8,580.00		
0618	7045	CONDT (PVC) (SCH 40) (6") (BORE)	LF	117	$81.00	$9,477.00	145	$11,745.00		
					Sub-Total	**$1,245,111**		**$266,653**		**-$50,560**
		TRAFFIC CONTROL		**1**						
0502	7001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	12.2	$2,000.00	$24,400.00				
0503	7001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	375	$125.00	$46,875.00				
		EROSION CONTROL								
0506	7039	TEMP SEDMT CONT FENCE (INSTALL)	LF	1,186	$5.00	$5,930.00				
0506	7040	TEMP SDMT CONT FENCE (INLET PROTECTION)	LF	527	$1.50	$790.50				
0506	7041	TEMP SEDMT CONT FENCE (REMOVE)	LF	1,713	$1.00	$1,713.00				
0506	7044	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	400	$5.00	$2,000.00				
0506	7046	BIODEG EROSN CONT LOGS (REMOVE)	LF	400	$1.50	$600.00				
0506	7001	ROCK FILTER DAMS (INSTL) (TY1)	LF	97	$40.00	$3,880.00				
0506	7011	ROCK FILTER DAMS (REMOVE)	LF	97	$15.00	$1,455.00				
0500	**7001**	**MOBILIZATION**	**LS**	**1**	**$100,000.00**	**$100,000.00**				
		CONSTRUCTION CONTINGENCY	**of construction cost**	**5%**	**$62,255.54**	**$62,255.54**		**$13,332.64**		**-$2,527.98**
					Sub-Total	**$249,899.04**		**$13,332.64**		**-$2,527.98**
					TOTAL:	**$1,495,010**		**$279,985**		**-$53,088**
						GRAND TOTAL (BASE BID + ADD ALTS)				**$1,721,908**

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STEVEN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

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ESTIMATE AND QUANTITY SHEETS

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	6
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

CSJ: 1014-03-063: FM 740 RIDGE ROAD MEDIAN LANDSCAPE IMPROVEMENT COST ESTIMATE

Item No.	Description Code	Description	Unit	Quantity (Base Bid)	Quantity (Add Alt 1)	Quantity (Add Alt 2)
		LANDSCAPE				
0100	7001	PREPARING ROW	STA	50.00	19.00	
0100	7003	PREP ROW (TREE REMOVE) (0"-12" DIA)	EA	138	0	
0192	7007	SOIL AMEND	SY	9,833	2,123	
0556	7009	PIPE UNDERDRAINS (TY 9) (6")	LF	3,245	1,133	
0194	7010	RDSIDE AMENITY (BOULDER)	EA	39	0	
0194	7011	RDSIDE AMENITY (STONE SLAB)	SF	5,541	810	
0192	7052	PLANT MATERIAL (MIN 3" CAL)	EA	121	23	
0192	7009	PLANT BED PREP	SY	2,889	624	
0192	7016	LANDSCAPE EDGING	LF	764	169	
0192	7022	LOOSE AGGR GRND COVER	SY	1000	91	
0192	7026	PLANT MATERIAL (4" FLAT)	EA	14,602	6,990	
0192	7026	PLANT MATERIAL (14/16 BULBS)	EA	23,959	9,171	
0192	7026	PLANT MATERIAL (1 GAL)	EA	16,594	3,098	-5,056
0192	7028	PLANT MATERIAL (3 GAL)	EA	239	24	
0192	7002	MULCH	SY	2,889	624	
0192	7003	PLANTING SOIL MIX	CY	1,340	341	
0170	7001	IRRIGATION SYSTEM	LS	1.0	1.0	
0618	7035	CONDT (PVC) (SCH 40) (2 1/2") (BORE)	LF	0	165	
0618	7045	CONDT (PVC) (SCH 40) (6") (BORE)	LF	117	145	
		TRAFFIC CONTROL		**1**		
0502	7001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	12.2		
0503	7001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	375		
		EROSION CONTROL				
0506	7039	TEMP SEDMT CONT FENCE (INSTALL)	LF	1,186		
0506	7040	TEMP SDMT CONT FENCE (INLET PROTECTION)	LF	527		
0506	7041	TEMP SEDMT CONT FENCE (REMOVE)	LF	1,713		
0506	7044	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	400		
0506	7046	BIODEG EROSN CONT LOGS (REMOVE)	LF	400		
0506	7001	ROCK FILTER DAMS (INSTL) (TY1)	LF	97		
0506	7011	ROCK FILTER DAMS (REMOVE)	LF	97		
0500	**7001**	**MOBILIZATION**	**LS**	**1**		
		CONSTRUCTION CONTINGENCY	**of construction cost**	**5%**		

	Date	Description



06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
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2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
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QUANTITY SUMMARY SHEETS

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	7
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

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DATE:
FILE:

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).

2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.

3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.

4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.

5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.

6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.

7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.

8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.

9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.

10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.

11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.

12. The Engineer has the final decision on the location of all traffic control devices.

13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.

2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.

2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

Texas Department of Transportation

Traffic Safety Division Standard

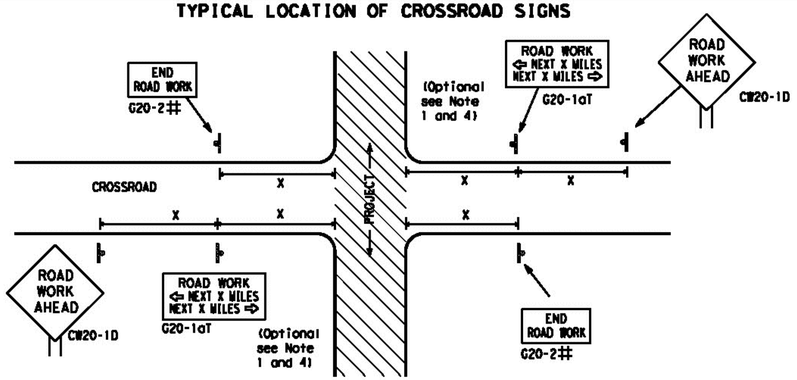
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS

BC(1)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
4-03 7-13	DIST	COUNTY		SHEET NO.
9-07 8-14	18	ROCKWALL		8
5-10 5-21				

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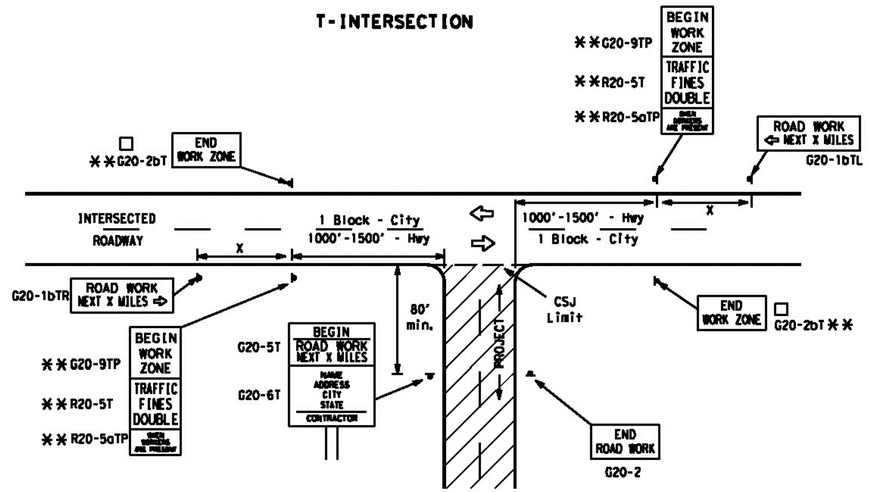
TYPICAL LOCATION OF CROSSROAD SIGNS



May be mounted on back of "ROAD WORK AHEAD"(CW20-1D) sign with approval of Engineer. (See note 2 below)

1. The typical minimum signing on a crossroad approach should be a "ROAD WORK AHEAD" (CW20-1D)sign and a (G20-2) "END ROAD WORK" sign, unless noted otherwise in plans.
2. The Engineer may use the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 36" x 18" "END ROAD WORK"(G20-2) sign on low volume crossroads (see Note 4 under "Typical Construction Warning Sign Size and Spacing"). See the "Standard Highway Sign Designs for Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume as per TMUTCD Part 5. This information shall be shown in the plans.
3. Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered part of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
4. The "ROAD WORK NEXT X MILES"(G20-1aT)sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
5. Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
6. When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

T-INTERSECTION



CSJ LIMITS AT T-INTERSECTION

1. The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
2. If construction closes the road at a T-intersection, the Contractor shall place the "CONTRACTOR NAME"(G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow(G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR)" signs shall be replaced by the detour signing called for in the plans.

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING[1,5,6]

SIZE

Sign Number or Series	Conventional Road	Expressway/ Freeway
CW20[4] CW21 CW22 CW23 CW25	48" x 48"	48" x 48"
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"

SPACING

Posted Speed	Sign △ Spacing "X"
MPH	Feet (Apprx.)
30	120
35	160
40	240
45	320
50	400
55	500[2]
60	600[2]
65	700[2]
70	800[2]
75	900[2]
80	1000[2]
*	*[3]

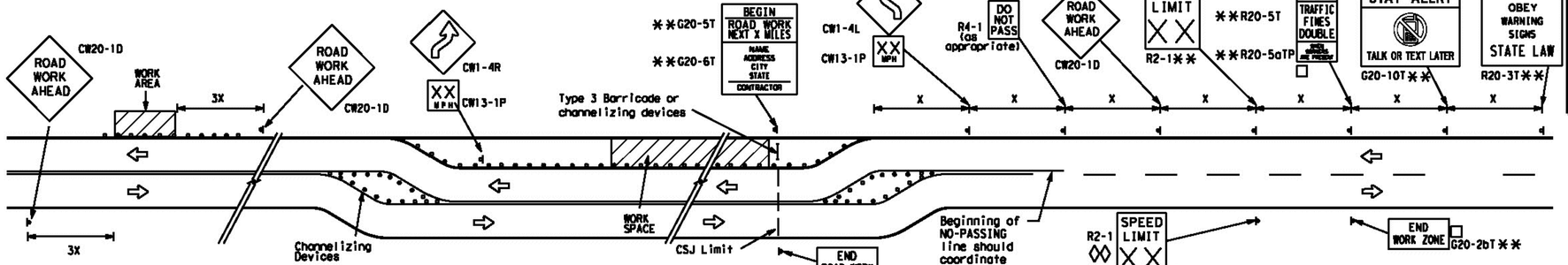
* For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

△ Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

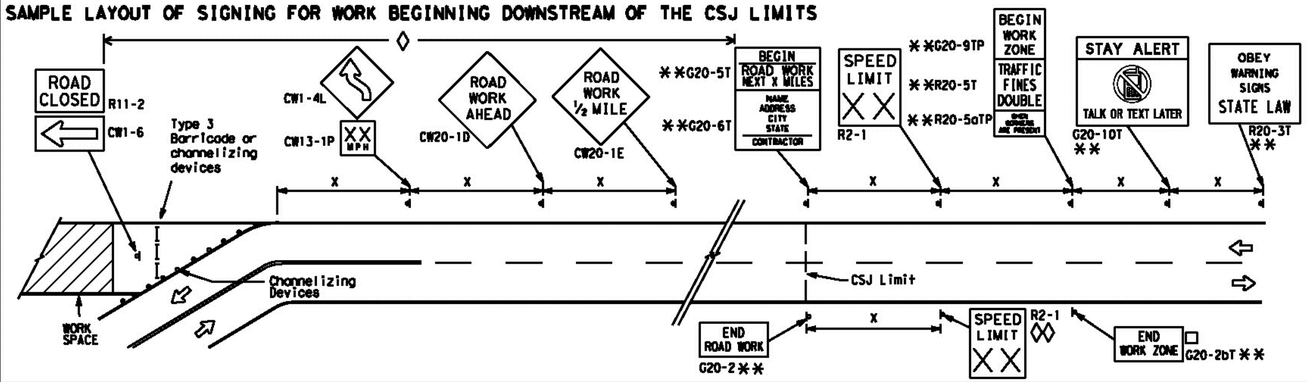
1. Special or larger size signs may be used as necessary.
2. Distance between signs should be increased as required to have 1500 feet advance warning.
3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D)signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs".
5. Only diamond shaped warning sign sizes are indicated.
6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS



When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD"(CW20-1D)signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizing devices.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS

NOTES

The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES"(G20-5T)sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.

□ The "BEGIN WORK ZONE"(G20-9TP) and "END WORK ZONE" (G20-2bT) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.

** CSJ limit signing is required for highway construction and maintenance work, with the exception of mobile operations.

◊ Area for placement of "ROAD WORK AHEAD" (CW20-1D)sign and other signs or devices as called for on the Traffic Control Plan.

◊◊ Contractor will install a regulatory speed limit sign at the end of the work zone.

LEGEND	
⊢⊣	Type 3 Barricade
○○○	Channelizing Devices
▬	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	18	ROCKWALL		9

DATE:
FILE:

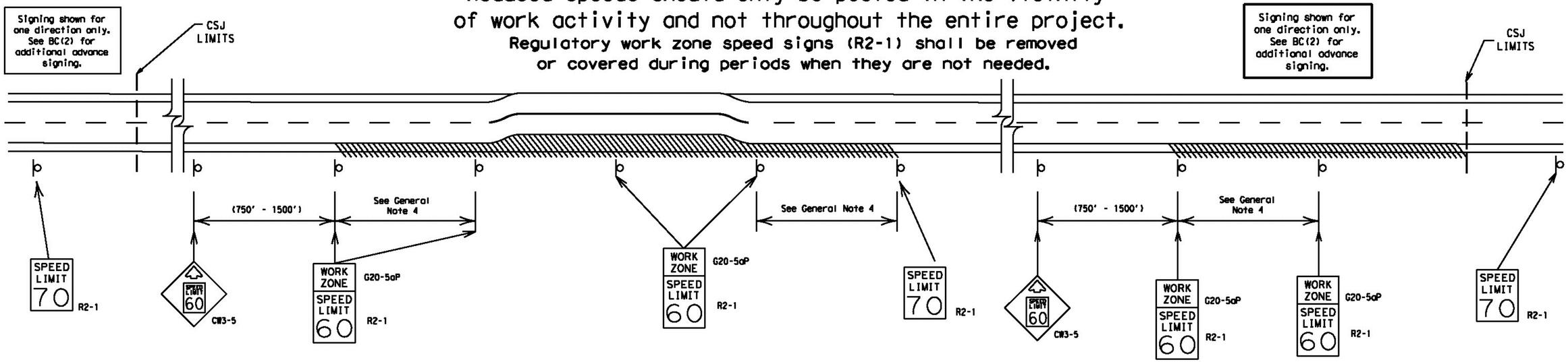
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TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project.

Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

a) rough road or damaged pavement surface
b) substantial alteration of roadway geometrics (diversions)
c) construction detours
d) grade
e) width
f) other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered.
(See Removing or Covering on BC(4)).

GENERAL NOTES

1. Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
2. Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
3. Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
4. Frequency of work zone speed limit signs should be:
   40 mph and greater 0.2 to 2 miles
   35 mph and less 0.2 to 1 mile
5. Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
6. Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CW3-5) sign, "WORK ZONE" (G20-5aP) plaque and the "SPEED LIMIT" (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
7. Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
8. Techniques that may help reduce traffic speeds include but are not limited to:
   A. Law enforcement.
   B. Flagger stationed next to sign.
   C. Portable changeable message sign (PCMS).
   D. Low-power (drone) radar transmitter.
   E. Speed monitor trailers or signs.
9. Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

DATE:
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Texas Department of Transportation | Traffic Safety Division Standard

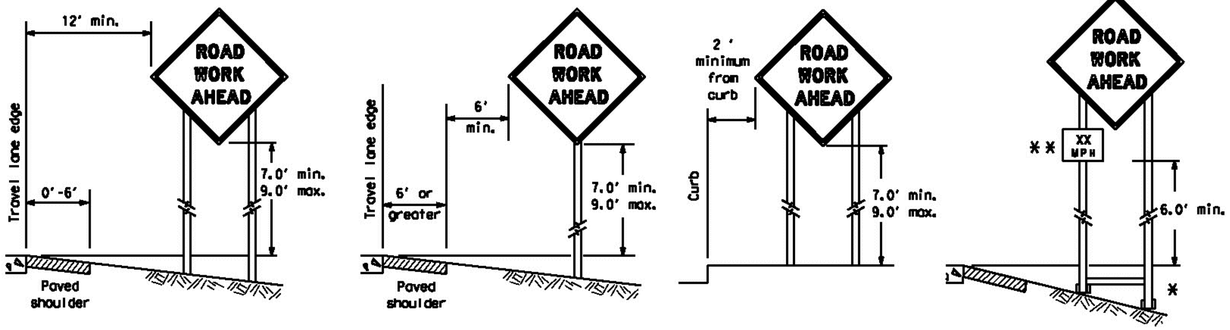
BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
9-07 8-14	DIST	COUNTY		SHEET NO.
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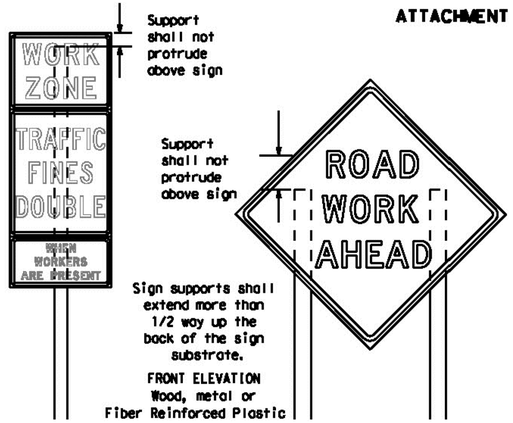
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS

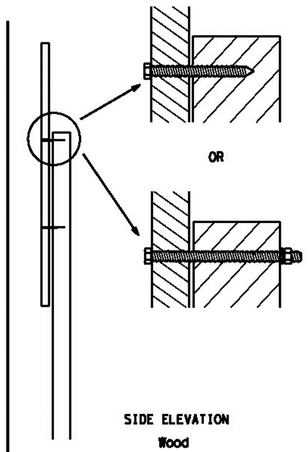


* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

** When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS





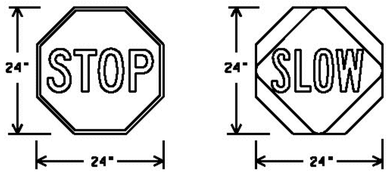
Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the spice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24".
2. STOP/SLOW paddles shall be retroreflectorized when used at night.
3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6' to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



Background - Red
Legend & Border - White

Background - Orange
Legend & Border - Black

SHEETING REQUIREMENTS (WHEN USED AT NIGHT)		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	ORANGE	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND & BORDER	WHITE	TYPE B OR C SHEETING
LEGEND & BORDER	BLACK	ACRYLIC NON-REFLECTIVE FILM

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, specific service (LOGO), or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
2. When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition. For details for covering large guide signs see the TS-CD standard.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
5. If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC standard sheets, TLRS standard sheets or the CWZTCD list. The signs shall meet the required mounting heights shown on the BC, or the SMD standard sheets during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
6. Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
6. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD) for small roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
7. The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
8. Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)

1. The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
   a. Long-term stationary - work that occupies a location more than 3 days.
   b. Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
   c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
   d. Short, duration - work that occupies a location up to 1 hour.
   e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

1. The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
7. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used, the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

Texas Department of Transportation

Traffic Safety Division Standard

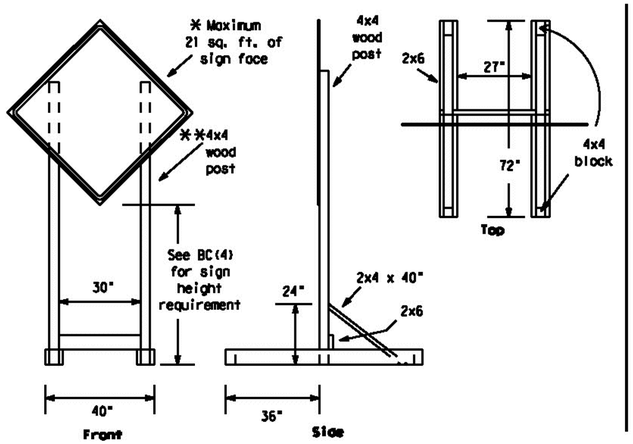
BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

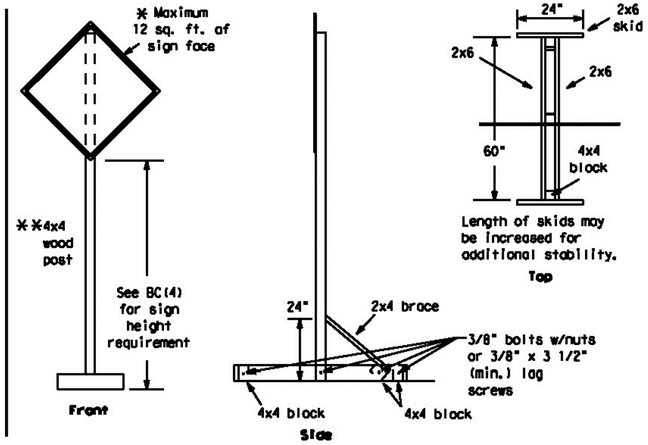
BC(4)-21

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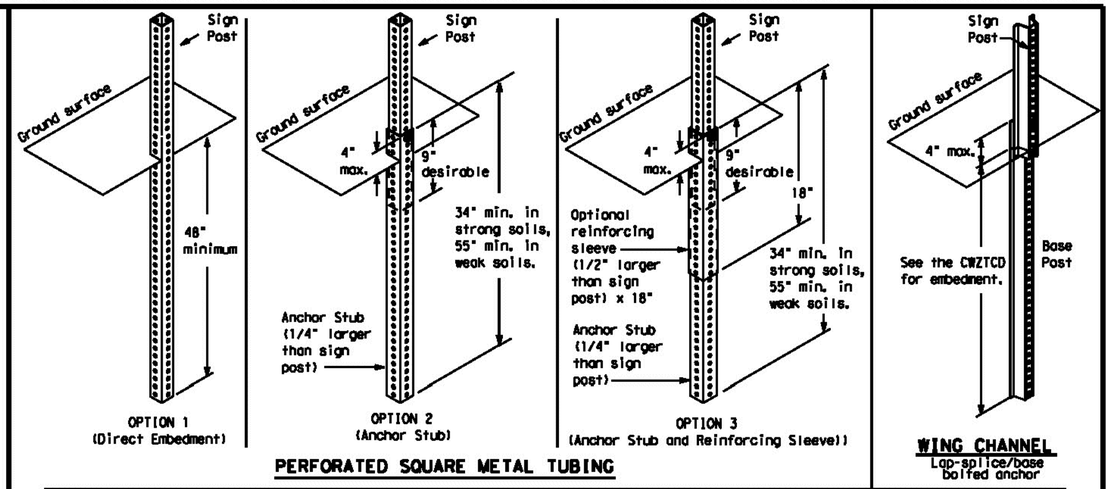
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SKID MOUNTED WOOD SIGN SUPPORTS

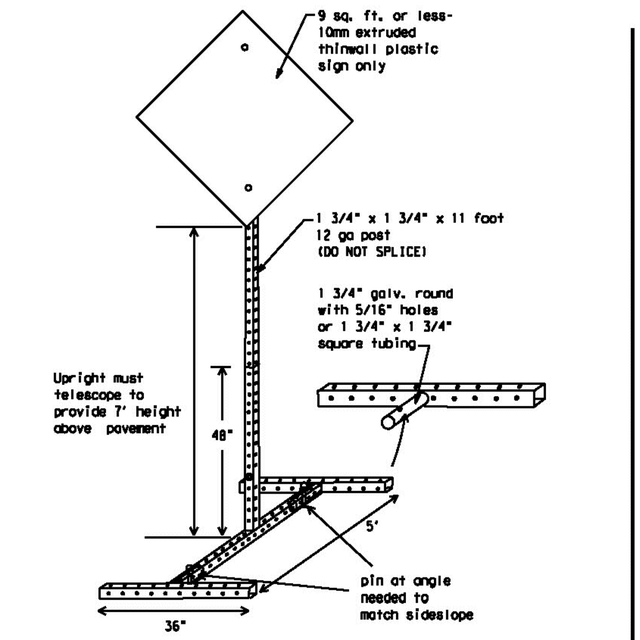
*** LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS**

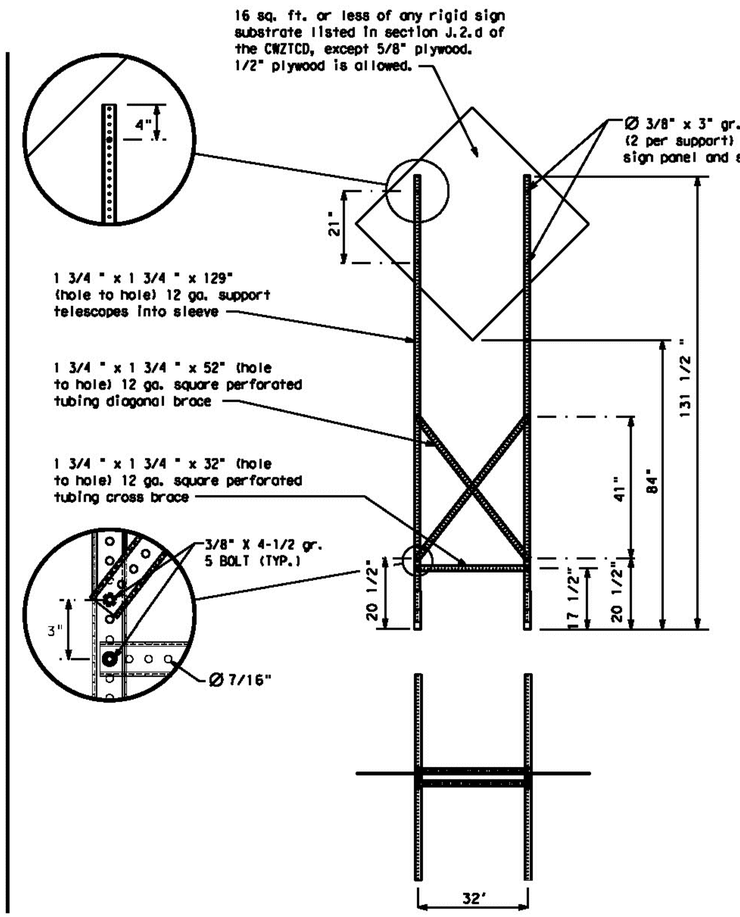


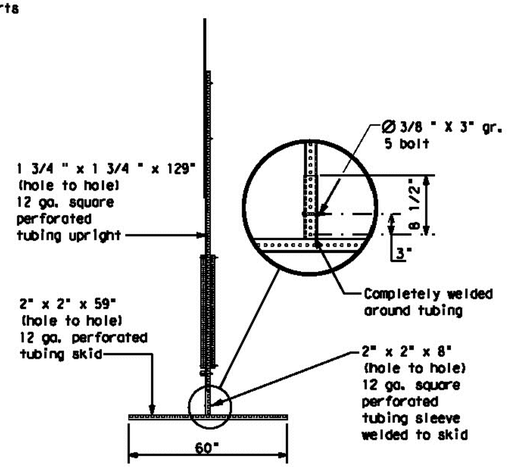
PERFORATED SQUARE METAL TUBING

GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support.
The maximum sign square footage shall adhere to the manufacturer's recommendation.
Two post installations can be used for larger signs.







SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS

*** LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS**

WEDGE ANCHORS

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

GENERAL NOTES

1. Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
2. No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
3. When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

* See BC(4) for definition of "Work Duration."

** Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.

☐ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

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Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGNS

1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
2. Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
5. Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
6. When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
7. The message term "WEEKEND" should be used only if the work is to start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
8. The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
9. Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
10. Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
11. Do not use the word "Danger" in message.
12. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
13. Do not display messages that scroll horizontally or vertically across the face of the sign.
14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
16. Each line of text should be centered on the message board rather than left or right justified.
17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD
Alternate	ALT
Avenue	AVE
Best Route	BEST RTE
Boulevard	BLVD
Bridge	BRDG
Cannot	CANT
Center	CTR
Construction Ahead	CONST AHD
CROSSING	XING
Detour Route	DETOUR RTE
Do Not	DONT
East	E
Eastbound	(route) E
Emergency	EMER
Emergency Vehicle	EMER VEH
Entrance, Enter	ENT
Express Lane	EXP LN
Expressway	EXPWY
XXXX Feet	XXXX FT
Fog Ahead	FOG AHD
Freeway	FRWY, FWY
Freeway Blocked	FWY BLKD
Friday	FRI
Hazardous Driving	HAZ DRIVING
Hazardous Material	HAZMAT
High-Occupancy	HOV
Vehicle Highway	HWY
Hour(s)	HR, HRS
Information	INFO
It Is	ITS
Junction	JCT
Left	LFT
Left Lane	LFT LN
Lane Closed	LN CLOSED
Lower Level	LWR LEVEL
Maintenance	MAINT

WORD OR PHRASE	ABBREVIATION
Major	MAJ
Miles	MI
Miles Per Hour	MPH
Minor	MNR
Monday	MON
Normal	NORM
North	N
Northbound	(route) N
Parking	PKING
Road	RD
Right Lane	RT LN
Saturday	SAT
Service Road	SERV RD
Shoulder	SHLDR
Slippery	SLIP
South	S
Southbound	(route) S
Speed	SPD
Street	ST
Sunday	SUN
Telephone	PHONE
Temporary	TEMP
Thursday	THURS
To Downtown	TO DWNTN
Traffic	TRAF
Travelers	TRVLRS
Tuesday	TUES
Time Minutes	TIME MIN
Upper Level	UPR LEVEL
Vehicles (s)	VEH, VEHS
Warning	WARN
Wednesday	WED
Weight Limit	WT LIMIT
West	W
Westbound	(route) W
Wet Pavement	WET PVMT
Will Not	WONT

Roadway designation = IH-number, US-number, SH-number, FM-number

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

- FREEWAY CLOSED X MILE
- ROAD CLOSED AT SH XXX
- ROAD CLSD AT FM XXXX
- RIGHT X LANES CLOSED
- CENTER LANE CLOSED
- NIGHT LANE CLOSURES
- VARIOUS LANES CLOSED
- EXIT CLOSED
- MALL DRIVEWAY CLOSED
- XXXXXXXX BLVD CLOSED
- FRONTAGE ROAD CLOSED
- SHOULDER CLOSED XXX FT
- RIGHT LN CLOSED XXX FT
- RIGHT X LANES OPEN
- DAYTIME LANE CLOSURES
- I-XX SOUTH EXIT CLOSED
- EXIT XXX CLOSED X MILE
- RIGHT LN TO BE CLOSED
- X LANES CLOSED TUE - FRI

Other Condition List

- ROADWORK XXX FT
- FLAGGER XXXX FT
- RIGHT LN NARROWS XXXX FT
- MERGING TRAFFIC XXXX FT
- LOOSE GRAVEL XXXX FT
- DETOUR X MILE
- ROADWORK PAST SH XXXX
- BUMP XXXX FT
- TRAFFIC SIGNAL XXXX FT
- ROAD REPAIRS XXXX FT
- LANE NARROWS XXXX FT
- TWO-WAY TRAFFIC XX MILE
- CONST TRAFFIC XXX FT
- UNEVEN LANES XXXX FT
- ROUGH ROAD XXXX FT
- ROADWORK NEXT FRI-SUN
- US XXX EXIT X MILES
- LANES SHIFT *

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

- MERGE RIGHT
- DETOUR NEXT X EXITS
- USE EXIT XXX
- STAY ON US XXX SOUTH
- TRUCKS USE US XXX N
- WATCH FOR TRUCKS
- EXPECT DELAYS
- PREPARE TO STOP
- REDUCE SPEED XXX FT
- USE OTHER ROUTES
- STAY IN LANE *
- FORM X LINES RIGHT
- USE XXXXX RD EXIT
- USE EXIT I-XX NORTH
- USE I-XX E TO I-XX N
- WATCH FOR TRUCKS
- EXPECT DELAYS
- PREPARE TO STOP
- END SHOULDER USE
- WATCH FOR WORKERS

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Location List

- AT FM XXXX
- BEFORE RAILROAD CROSSING
- NEXT X MILES
- PAST US XXX EXIT
- XXXXXXX TO XXXXXXX
- US XXX TO FM XXXX

Warning List

- SPEED LIMIT XX MPH
- MAXIMUM SPEED XX MPH
- MINIMUM SPEED XX MPH
- ADVISORY SPEED XX MPH
- RIGHT LANE EXIT
- USE CAUTION
- DRIVE SAFELY
- DRIVE WITH CARE

** Advance Notice List

- TUE-FRI XX AM- X PM
- APR XX-XX X PM-X AM
- BEGINS MONDAY
- BEGINS MAY XX
- MAY X-X XX PM - XX AM
- NEXT FRI-SUN
- XX AM TO XX PM
- NEXT TUE AUG XX
- TONIGHT XX PM- XX AM

** See Application Guidelines Note 6.

APPLICATION GUIDELINES

1. Only 1 or 2 phases are to be used on a PCMS.
2. The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
6. For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
2. Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
4. Highway names and numbers replaced as appropriate.
5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
6. AHEAD may be used instead of distances if necessary.
7. FT and MI, MILE and MILES interchanged as appropriate.
8. AT, BEFORE and PAST interchanged as needed.
9. Distances or AHEAD can be eliminated from the message if a location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

FULL MATRIX PCMS SIGNS

1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
2. When symbol signs, such as the "Flagger Symbol"(CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above.
3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the same size arrow.

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

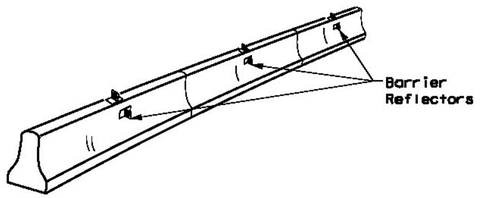
BC(6)-21

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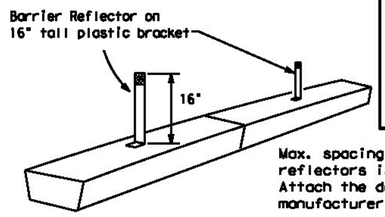
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1. Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
2. Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.



CONCRETE TRAFFIC BARRIER (CTB)

3. Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
4. Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional)while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
5. When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
6. Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
7. Maximum spacing of Barrier Reflectors is forty (40) feet.
8. Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
9. Attachment of Barrier Reflectors to CTB shall be per manufacturer's recommendations.
10. Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer.
11. Single slope barriers shall be delineated as shown on the above detail.

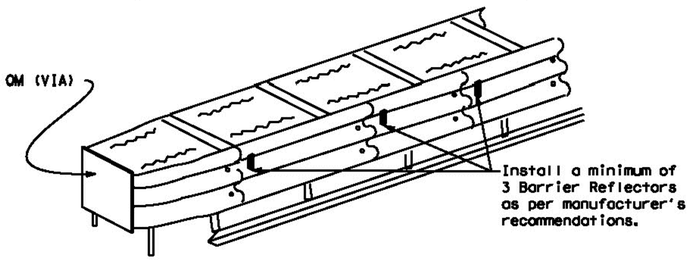


Max. spacing of barrier reflectors is 20 feet. Attach the delineators as per manufacturer's recommendations.

LOW PROFILE CONCRETE BARRIER (LPCB) USED IN WORK ZONES

LPCB is approved for use in work zone locations, where the posted speed is 45mph, or less. See Roadway Standard Sheet LPCB.

LOW PROFILE CONCRETE BARRIER (LPCB)

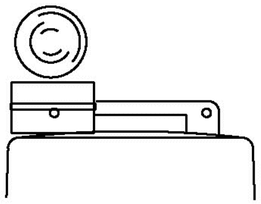


DELINEATION OF END TREATMENTS

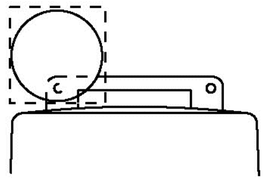
END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet the appropriate crashworthy standards as defined in the Manual for Assessing Safety Hardware (MASH). Refer to the CWZTCD List for approved end treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



Warning reflector may be round or square. Must have a yellow reflective surface area of at least 30 square inches

WARNING LIGHTS

1. Warning lights shall meet the requirements of the TMUTCD.
2. Warning lights shall NOT be installed on barricades.
3. Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type B_{FL} or C_{FL} Sheeting meeting the requirements of Departmental Material Specification DMS-8300.
4. Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "SB".
5. The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
6. When required by the Engineer, the Contractor shall furnish a copy of the warning lights certification. The warning light manufacturer will certify the warning lights meet the requirements of the latest ITE Purchase Specifications for Flashing and Steady-Burn Warning Lights.
7. When used to delineate curves, Type-C and Type D Steady Burn Lights should only be placed on the outside of the curve, not the inside.
8. The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

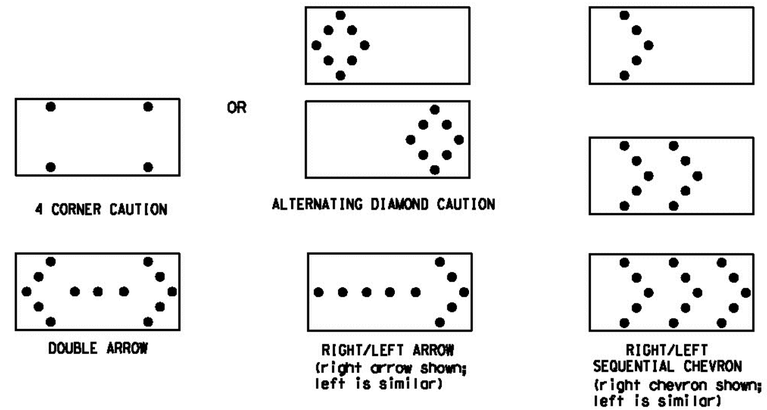
1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
3. A series of sequential flashing warning lights placed on channelizing devices to form a merging taper may be used for delineation. If used, the successive flashing of the sequential warning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle path. The rate of flashing for each light shall be 65 flashes per minute, plus or minus 10 flashes.
4. Type C and D steady-burn warning lights are intended to be used in a series to delineate the edge of the travel lane on detours, on lane changes, on lane closures, and on other similar conditions.
5. Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
6. Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
7. The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
2. The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed on the CWZTCD.
3. The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
4. Round reflectors shall be fully reflectorized, including the area where attached to the drum.
5. Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it attaches to the drum.
6. The side of the warning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.
7. When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
8. The warning reflector should be mounted on the side of the handle nearest approaching traffic.
9. The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

1. The Flashing Arrow Board should be used for all lane closures on multi-lane roadways, or slow moving maintenance or construction activities on the travel lanes.
2. Flashing Arrow Boards should not be used on two-lane, two-way roadways, detours, diversions or work on shoulders unless the "CAUTION" display (see detail below) is used.
3. The Engineer/Inspector shall choose all appropriate signs, barricades and/or other traffic control devices that should be used in conjunction with the Flashing Arrow Board.
4. The Flashing Arrow Board should be able to display the following symbols:



5. The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
6. The straight line caution display is NOT ALLOWED.
7. The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage. The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
8. Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal intervals of 25 percent for each sequential phase of the flashing chevron.
9. The sequential arrow display is NOT ALLOWED.
10. The flashing arrow display is the TxDOT standard; however, the sequential chevron display may be used during daylight operations.
11. The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
12. A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
13. A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility, flash rate and dimming requirements on this sheet for the same size arrow.
14. Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

REQUIREMENTS			
TYPE	MINIMUM SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE
B	30 x 60	13	3/4 mile
C	48 x 96	15	1 mile

ATTENTION

Flashing Arrow Boards shall be equipped with automatic dimming devices.

WHEN NOT IN USE, REMOVE THE ARROW BOARD FROM THE RIGHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE TRAFFIC BARRIER OR GUARDRAIL.

FLASHING ARROW BOARDS

TRUCK-MOUNTED ATTENUATORS

1. Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the Manual for Assessing Safety Hardware (MASH).
2. Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
3. Refer to the CWZTCD for a list of approved TMAs.
4. TMAs are required on freeways unless otherwise noted in the plans.
5. A TMA should be used anytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
6. The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR

BC(7)-21

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GENERAL NOTES

1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
5. Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

Pre-qualified plastic drums shall meet the following requirements:

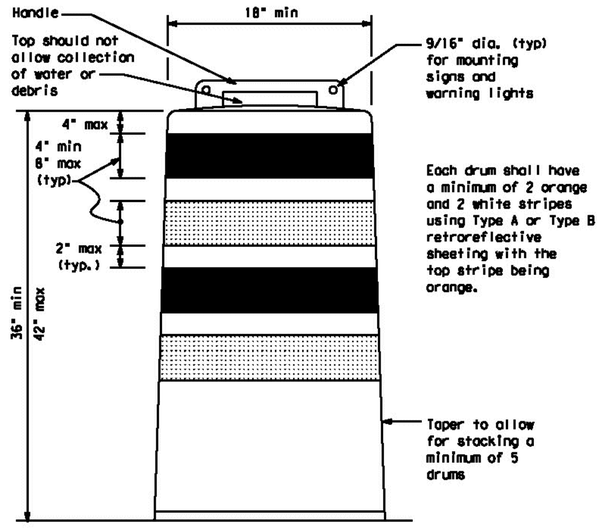
1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
3. Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
8. Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
9. Drum body shall have a maximum unballasted weight of 11 lbs.
10. Drum and base shall be marked with manufacturer's name and model number.

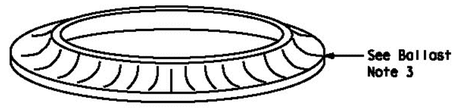
RETROREFLECTIVE SHEETING

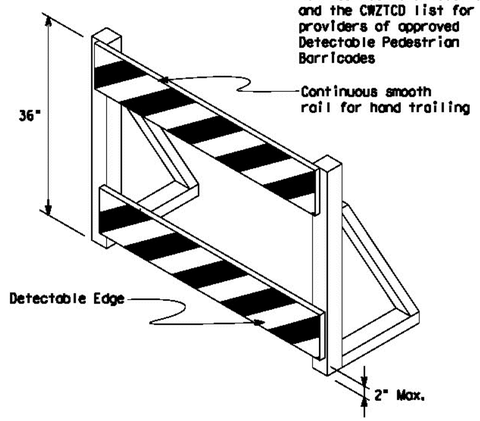
1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
2. Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
3. Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
4. The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
6. Ballast shall not be placed on top of drums.
7. Adhesives may be used to secure base of drums to pavement.

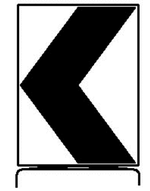




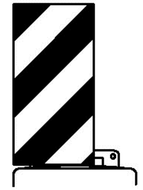


DETECTABLE PEDESTRIAN BARRICADES

1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures.
2. Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
3. Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
5. Warning lights shall not be attached to detectable pedestrian barricades.
6. Detectable pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



18" x 24" Sign
(Maximum Sign Dimension)
Chevron CW1-8, Opposing Traffic Lane Divider, Driveway sign D70a, Keep Right R4 series or other signs as approved by Engineer



12" x 24" Vertical Panel mount with diagonals sloping down towards travel way

Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

1. Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
2. Chevrons and other work zone signs with an orange background shall be manufactured with Type B_{FL} or Type C_{FL} Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
3. Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A or Type B. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
5. Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
6. Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
7. Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

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Traffic Safety Division Standard

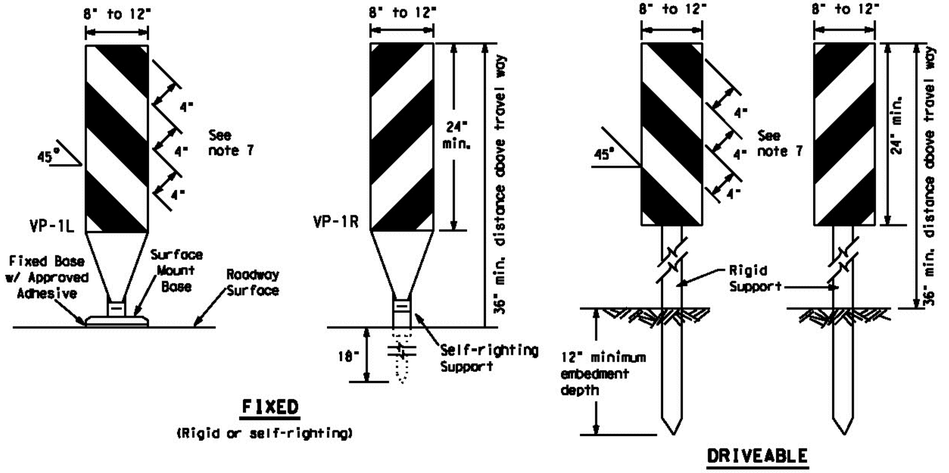
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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4-03 8-14	DIST	COUNTY		SHEET NO.
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7-13				

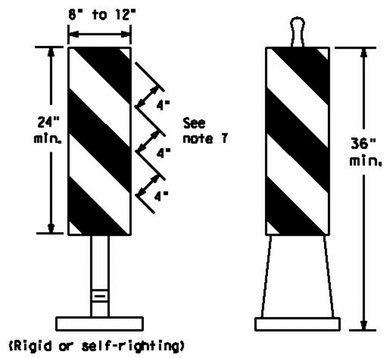
102

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FIXED
(Rigid or self-righting)

DRIVEABLE

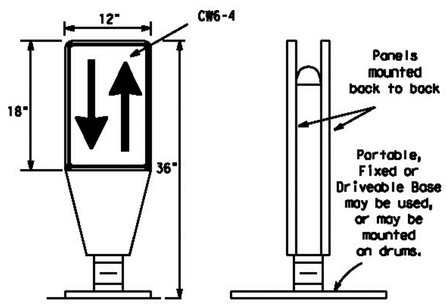


(Rigid or self-righting)

PORTABLE

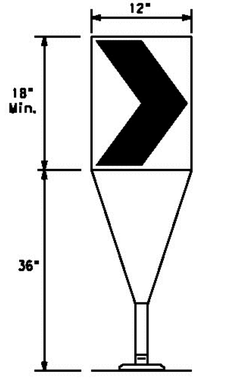
1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Manual for additional requirements on the use VP's for drop-offs.
3. VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
4. VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
5. Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
6. Sheeting for the VP's shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
7. Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.

VERTICAL PANELS (VPs)



1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
2. The OTLD may be used in combination with 42" cones or VPs.
3. Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
4. The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



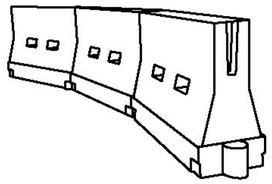
Fixed Base w/ Approved Adhesive (Driveable Base, or Flexible Support can be used)

1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
4. To be effective, the chevron should be visible for at least 500 feet.
5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
6. For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS

GENERAL NOTES

1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
2. Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
3. Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
6. Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.



LONGITUDINAL CHANNELIZING DEVICES (LCD)

1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.
2. LCDs may be used instead of a line of cones or drums.
3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10). Place reflective sheeting near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

1. Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requirements based on roadway speed and barrier application.
2. Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
4. Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH) urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.
5. When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

If used to channelize pedestrians, longitudinal channelizing devices or water ballasted systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

Posted Speed	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'
35		205'	225'	245'	35'	70'
40		265'	295'	320'	40'	80'
45	L=WS	450'	495'	540'	45'	90'
50		500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60		600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70		700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80		800'	880'	960'	80'	160'

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

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

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BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-21

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7-13 5-21	18	ROCKWALL		15B

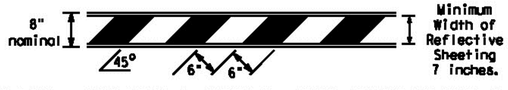
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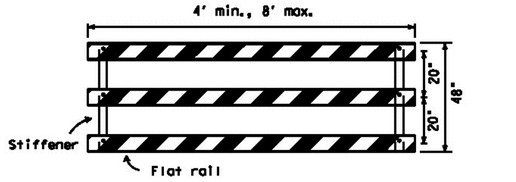
TYPE 3 BARRICADES

1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
2. Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
3. Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road, striping should slope downward in both directions toward the center of roadway.
4. Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
5. Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
7. Warning lights shall NOT be installed on barricades.
8. Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
9. Sheeting for barricades shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

Barricades shall NOT be used as a sign support.



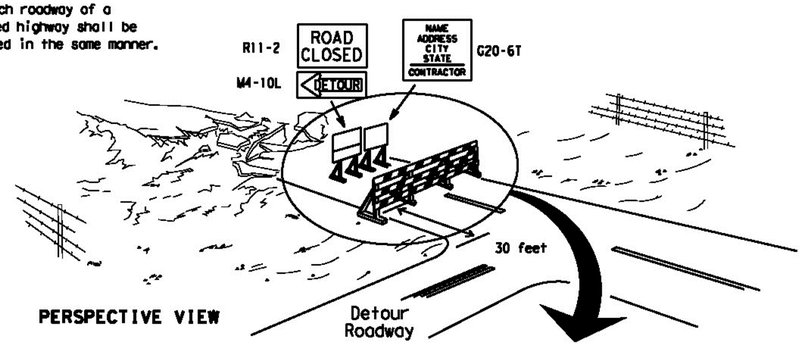
TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



Stiffener may be inside or outside of support, but no more than 2 stiffeners shall be allowed on one barricade.

TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

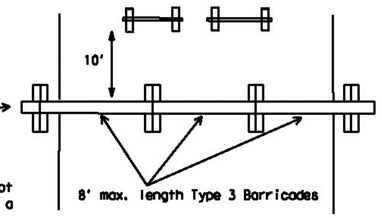
Each roadway of a divided highway shall be barricaded in the same manner.



PERSPECTIVE VIEW

The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic.

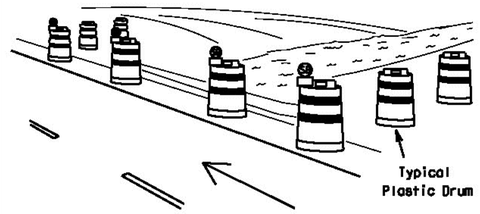
Barricade striping should slant downward in the direction of detour.



PLAN VIEW

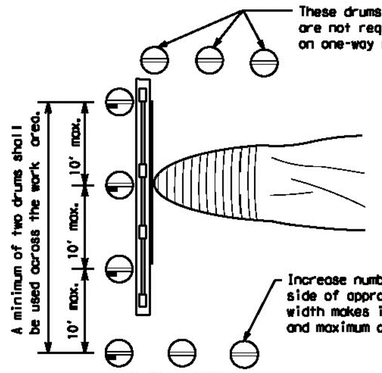
1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



PERSPECTIVE VIEW

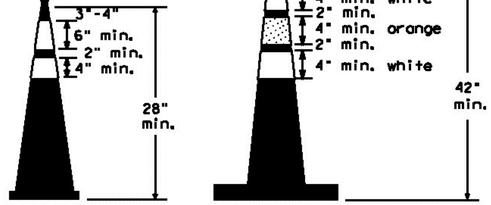
1. Where positive redirectional capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.



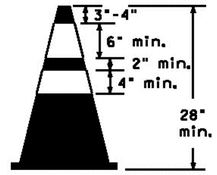
LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
SB	Steady burn warning light or yellow warning reflector

PLAN VIEW

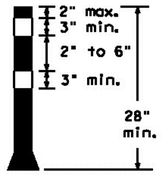
CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS



Two-Piece cones



One-Piece cones

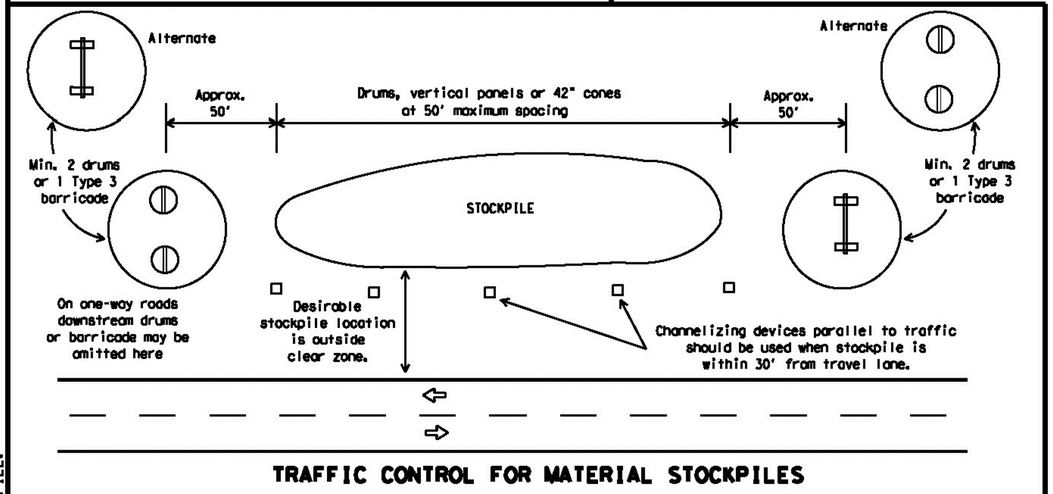


Tubular Marker

28" Cones shall have a minimum weight of 9 1/2 lbs.

42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

1. Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
4. Cones or tubular markers shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A or Type B.
5. 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
6. 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
7. Cones or tubular markers used on each project should be of the same size and shape.



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

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Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-21

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WORK ZONE PAVEMENT MARKINGS

GENERAL

1. The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
3. Additional supplemental pavement marking details may be found in the plans or specifications.
4. Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
7. All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

1. Raised pavement markers are to be placed according to the patterns on BC(12).
2. All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

1. Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

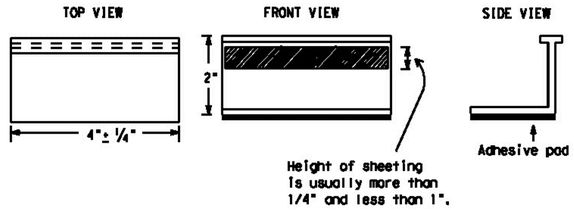
MAINTAINING WORK ZONE PAVEMENT MARKINGS

1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
2. Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
4. Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

REMOVAL OF PAVEMENT MARKINGS

1. Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
2. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
3. Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
6. Blast cleaning may be used but will not be required unless specifically shown in the plans.
7. Over-painting of the markings SHALL NOT BE permitted.
8. Removal of raised pavement markers shall be as directed by the Engineer.
9. Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
10. Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE

1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the roadway.
   A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
   B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.
3. Small design variances may be noted between tab manufacturers.
4. See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

1. Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
3. Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designated as:
YELLOW - (two amber reflective surfaces with yellow body).
WHITE - (one silver reflective surface with white body).

DEPARTMENTAL MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

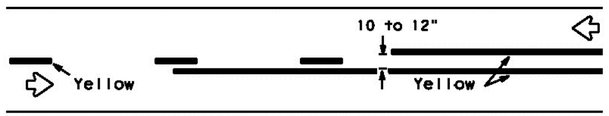
BC(11)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
2-98 9-07 5-21	DIST	COUNTY		SHEET NO.
1-02 7-13	18	ROCKWALL		16
11-02 8-14				

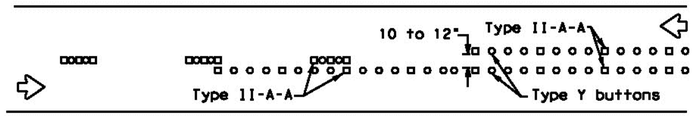
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DATE:
FILE:

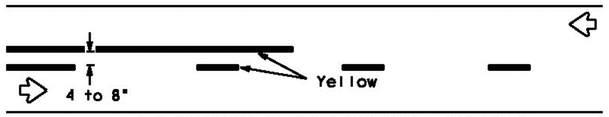
PAVEMENT MARKING PATTERNS



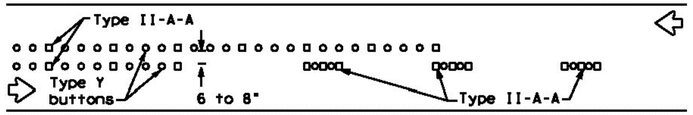
REFLECTORIZED PAVEMENT MARKINGS - PATTERN A



RAISED PAVEMENT MARKERS - PATTERN A



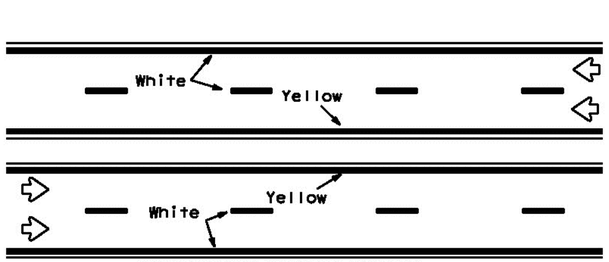
REFLECTORIZED PAVEMENT MARKINGS - PATTERN B



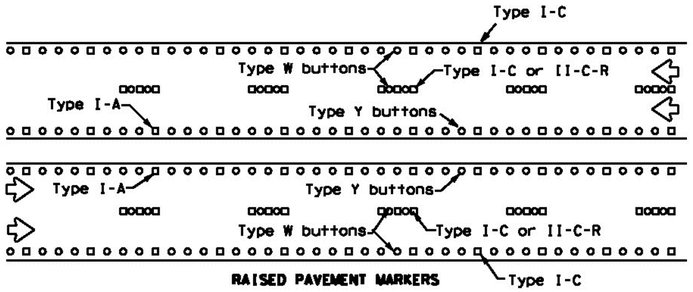
RAISED PAVEMENT MARKERS - PATTERN B

Pattern A is the TXDOT Standard, however Pattern B may be used if approved by the Engineer.
Prefabricated markings may be substituted for reflectorized pavement markings.

CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO-LANE, TWO-WAY HIGHWAYS



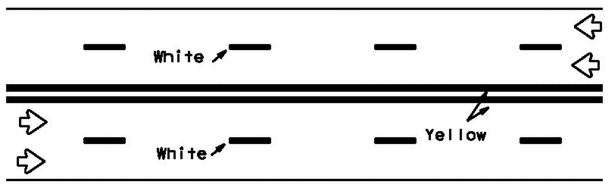
REFLECTORIZED PAVEMENT MARKINGS



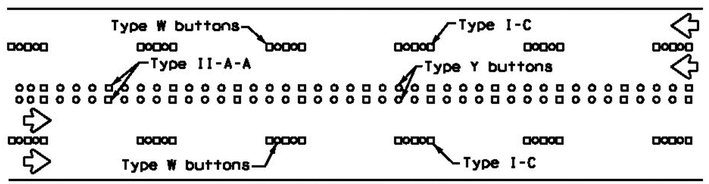
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

EDGE & LANE LINES FOR DIVIDED HIGHWAY



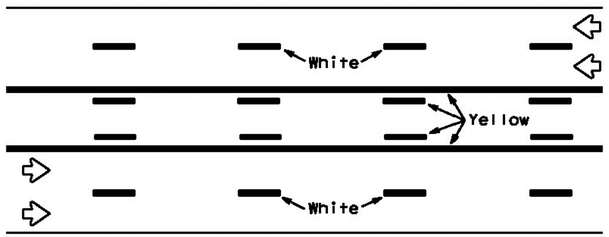
REFLECTORIZED PAVEMENT MARKINGS



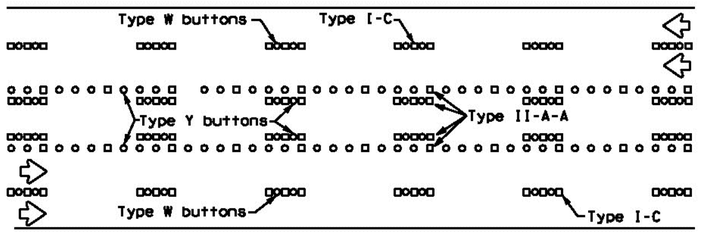
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



REFLECTORIZED PAVEMENT MARKINGS



RAISED PAVEMENT MARKERS

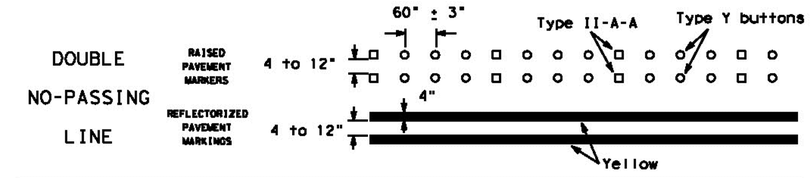
Prefabricated markings may be substituted for reflectorized pavement markings.

TWO-WAY LEFT TURN LANE

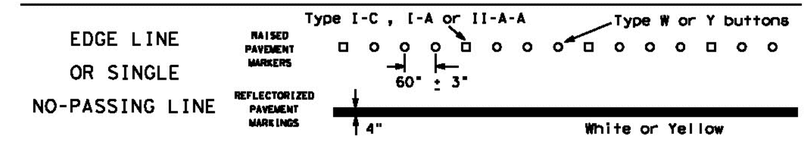
STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS

SOLID LINES

DOUBLE NO-PASSING LINE

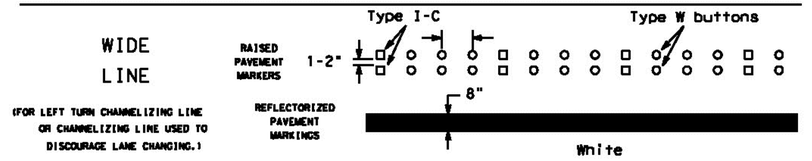


EDGE LINE OR SINGLE NO-PASSING LINE



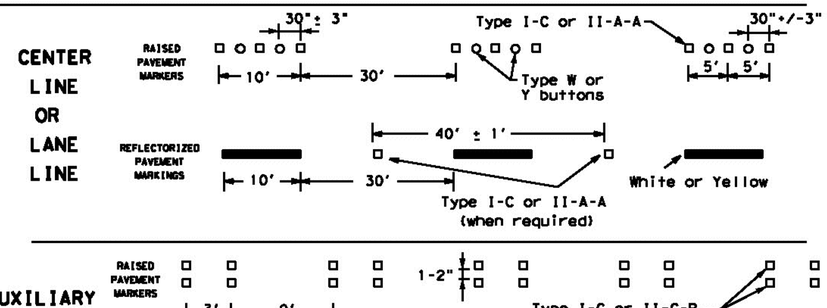
WIDE LINE

(FOR LEFT TURN CHANNELIZING LINE OR CHANNELIZING LINE USED TO DISCOURAGE LANE CHANGING.)

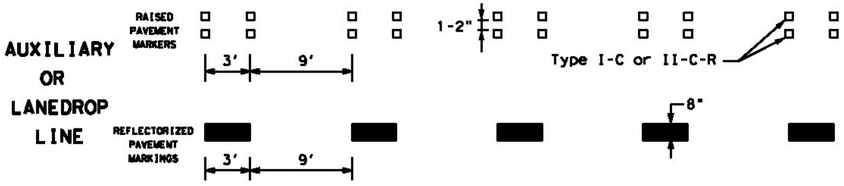


BROKEN LINES

CENTER LINE OR LANE LINE

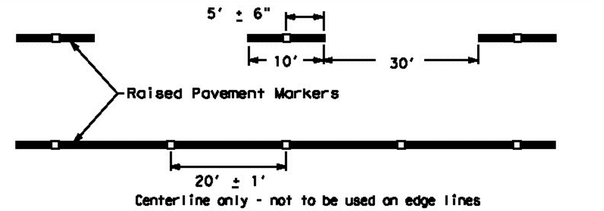


AUXILIARY OR LANEDROP LINE



REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

If raised pavement markers are used to supplement REMOVABLE markings, the markers shall be applied to the top of the tape at the approximate mid length of tape used for broken lines or at 20 foot spacing for solid lines. This allows an easier removal of raised pavement markers and tape.



Centerline only - not to be used on edge lines

Raised pavement markers used as standard pavement markings shall be from the approved products list and meet the requirements of Item 672 "RAISED PAVEMENT MARKERS."

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS 1-97 9-07 5-21	1014	03	063	FM 740
2-98 7-13	DIST	COUNTY		SHEET NO.
11-02 8-14	18	ROCKWALL		17

TRAFFIC CONTROL NOTES:

CONTRACTOR TO PROVIDE TRAFFIC CONTROL PLAN IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) STANDARD FOR REVIEW BY THE CITY OF ROCKWALL AND REVIEW AND APPROVAL BY TXDOT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

THE CONTRACTOR SHALL MAINTAIN PROPER BARRICADES AND SAFETY MEASURES FOR THE PROTECTION OF THE TRAVELING PUBLIC DURING THE CONSTRUCTION OF THIS PROJECT. THE WORK HOURS ON FM740 ARE AS FOLLOWS: MONDAY THROUGH FRIDAY 9AM TO 3PM, NO WORK ON WEEK ENDS, NO WORK ON HOLIDAYS, FULL AND TRAFFIC CONTROL PLAN IN PLACE DURING WORKING HOURS. UNLESS APPROVED OTHERWISE BY TXDOT

ALL BARRICADES, WARNING SIGNS, LIGHTS, RUMBLE STRIPS, CRASH TRUCKS, DEVICES ETC., FOR GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE INSTALLATION SHOWN IN THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), AS CURRENTLY AMENDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION (2024 SPECIFICATIONS).

THE CONTRACTOR SHALL DEVELOP A SEQUENCE OF CONSTRUCTION, PREPARE DETAILED TRAFFIC CONTROL PLANS SHOWING ALL SIGNS AND DETOUR ROUTES IN ACCORDANCE WITH TXDOT TRAFFIC CONTROL STANDARDS AND TMUTCD, AND SUBMIT THEM TO REVIEW BY THE CITY OF ROCKWALL AND REVIEW AND APPROVAL BY TXDOT PRIOR TO SETTING UP FOR CONSTRUCTION

TRAFFIC CONTROL SHALL INCLUDE REMOVAL, INSTALLATION AND MAINTENANCE OF ALL TEMPORARY TRAFFIC CONTROL DEVICES (RUMBLE STRIPS, CRASH TRUCKS, WARNING SIGNS, BARRICADES, ELECTRICAL ARROW BOARD FLAGMEN, TEMPORARY PAVEMENT MARKINGS FOR DETOUR (IF APPLICABLE) AND ANY OTHER TEMPORARY TRAFFIC CONTROL MEASURES) IMPLEMENTED, AS DIRECTED BY THE ENGINEER TO MAINTAIN THE NECESSARY TRAFFIC THROUGH THE PROJECT.

TWO WAY, TWO LANE IN EACH DIRECTION TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON THIS PROJECT UNLESS SPECIFIED OTHERWISE IN THE PLANS AND SPECIFICATIONS.

B 2.4 DETOURS AND BARRICADES
THE CONTRACTOR SHALL SUBMIT TO THE INSPECTOR TWO (2) COPIES OF A TRAFFIC CONTROL PLAN DESIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER TWO (2) WEEKS PRIOR TO CLOSING ANY STREET OR CAUSING ANY OBSTRUCTION TO TRAFFIC ON ANY STREET. THE CONTRACTOR SHALL NOT PROCEED WITH THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN UNTIL NOTIFIED BY THE INSPECTOR THAT THE PLAN HAS BEEN ACCEPTED. THE TRAFFIC CONTROL PLAN SHALL BE DRAWN AT A SCALE NOT LESS THAN 1"=200' UNLESS APPROVED BY THE INSPECTOR AND SUCH THAT IT IS LEGIBLE AND SHALL INCLUDE PROPOSED STREET CLOSINGS, DETOURS, BARRICADE PLACEMENTS, AND SIGN PLACEMENT, INCLUDING ADVANCE WARNING SIGNS, TEMPORARY SIGNALS AND PAVEMENT MARKINGS IF NECESSARY. THE CONTRACTOR SHALL FURNISH AND ERECT SUITABLE BARRICADES, SIGNS, SIGNALS AND APPROPRIATE PAVEMENT MARKINGS TO PROTECT MOTORISTS AND PEDESTRIANS, AS SET FORTH IN THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE BARRICADES, SIGNS, SIGNALS AND PAVEMENT MARKINGS SHALL BE CONSTRUCTED, PLACED, AND ADEQUATELY MAINTAINED AS SET FORTH IN THE TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE. ALL BARRICADES, SIGNS, SIGNALS, PAVEMENT MARKINGS, AND HOURS OF RESTRICTIONS SHALL CONFORM TO AND BE SET IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. UNLESS OTHERWISE APPROVED BY THE ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE, TWO-WAY TRAFFIC SHALL BE MAINTAINED ON ALL ROADWAYS UNDER CONSTRUCTION AT ALL TIMES. IF IT BECOMES NECESSARY TO DETOUR TRAFFIC OFF THE EXISTING PAVED ROADWAY FOR MORE THAN SEVEN (7) DAYS, A HARD SURFACE DRIVING LANE, SUCH AS ASPHALT, SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE DETOUR. ALL TEMPORARY TIE-INS SHALL BE CONSTRUCTED OF 4-INCH TYPE B ASPHALT OVER A COMPACTED SUBGRADE (STANDARD COMPACTION). SUBSEQUENT MAINTENANCE OF ALL DETOURS AND TIE-INS SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID FOR TEMPORARY ASPHALT. CUTTING, REMOVING, AND REPLACING THE ASPHALT FOR UTILITY INSTALLATIONS, EXCAVATION, AND/OR LIMING OPERATIONS SHALL BE CONSIDERED SUBSIDIARY TO THE INITIAL PLACEMENT OF ASPHALT AND WILL NOT BE PAID FOR EACH RE-INSTALLATION. ASPHALT SHALL BE REPLACED WITHIN SEVEN (7) DAYS OF REMOVAL FOR THESE ACTIVITIES. A BID ITEM SHALL BE INCLUDED FOR FURNISHING, INSTALLING, MAINTAINING AND FINAL REMOVAL OF THE ASPHALT.

CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TEMPORARY TIE INS.

WHERE PAVEMENT DROP-OFFS OCCUR, TRAFFIC CONTROL PLANS SHALL BE AS OUTLINED IN THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THESE GUIDELINES ARE APPLICABLE TO CONSTRUCTION WORK WHERE CONTINUOUS PAVEMENT EDGES OR DROP-OFFS EXIST PARALLEL AND ADJACENT TO A LANE USED FOR TRAFFIC.

WHEN PERFORMING MAINTENANCE ON MAJOR ARTERIALS, CONTRACTOR SHALL USE PORTABLE MESSAGE BOARDS TO INFORM THE PUBLIC OF THE CONSTRUCTION DATE, LENGTH OF PROJECT, AND TO EXPECT DELAYS. THE SIGNS SHALL BE OPERATIONAL 24 HOURS A DAY. PORTABLE MESSAGE BOARDS SHALL BE ERECTED SEVEN (7) CALENDAR DAYS PRIOR TO BEGINNING WORK, AND ALL VERBIAGE SHALL BE APPROVED BY THE CITY ENGINEER.

NO DIRECT COMPENSATION (UNLESS BID ITEM INCLUDED) WILL BE MADE TO THE CONTRACTOR FOR FURNISHING, INSTALLING, AND MAINTAINING ANY TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO MESSAGE BOARDS, BARRICADES, WARNING SIGNS, SIGNALS, PAVEMENT MARKINGS, AND DETOURS AND THEIR SUBSEQUENT MAINTENANCE AND REMOVAL. THE CITY OF GRAPEVI DUE TO THE DYNAMIC NATURE OF TRAFFIC CONTROL REQUESTS 1 ITEM LUMP SUM FOR TRAFFIC CONTROL OF WHICH ALL WORK SIGNS EQUIPMENT IS SUBSIDIARY. SHOULD IT BE NECESSARY FOR THE CITY TO PROVIDE AND/OR MAINTAIN SIGNS, BARRICADES, SIGNALS, AND
MARKINGS THE COST OF SUCH SHALL BE DEDUCTED FROM THE MONTHLY ESTIMATE.

B 2.5 ACCESS TO PRIVATE PROPERTIES
THE CONTRACTOR SHALL MAINTAIN ALL PRIVATE DRIVES IN AN ACCESSIBLE CONDITION TO ALLOW RESIDENTS INGRESS AND EGRESS BEFORE LEAVING THE JOB SITE, EXCEPT DURING THE PLACING AND CURING OF DRIVE APPROACHES. ALL COMMERCIAL DRIVES AND OTHER LOCATIONS WITH HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER, SHALL BE MAINTAINED WITH 4-INCH TYPE B ASPHALT OVER A COMPACTED SUBGRADE (STANDARD COMPACTION). SUBSEQUENT MAINTENANCE OF DRIVES SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICES BID. CUTTING, REMOVING, AND REPLACING THE ASPHALT FOR UTILITY INSTALLATIONS, EXCAVATION, AND/OR LIMING OPERATIONS SHALL BE CONSIDERED SUBSIDIARY TO THE INITIAL PLACEMENT OF ASPHALT AND WILL NOT BE PAID FOR EACH RE-INSTALLATION. ASPHALT SHALL BE REPLACED WITHIN SEVEN (7) DAYS OF REMOVAL FOR THESE ACTIVITIES.

THE CONTRACTOR WILL LEAVE WITH THE ENGINEER THE PHONE NUMBERS OF RESPONSIBLE PERSONS AVAILABLE TWENTY- FOUR (24) HOURS A DAY TO HANDLE EMERGENCIES CONCERNING EGRESS AND INGRESS. IF A VEHICLE BECOMES STRANDED DUE TO AN INACCESSIBLE CONDITION, ANY LEGITIMATE CLAIMS ARISING FROM SUCH CONDITIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, IF SUCH CLAIMS ARE NOT SETTLED PRIOR TO THE MONTHLY PAY ESTIMATE, THEY SHALL
BE DEDUCTED FROM THAT ESTIMATE.

	Date	Description

REGISTERED LANDSCAPE ARCHITECT
STAN R. COWAN
2118
STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

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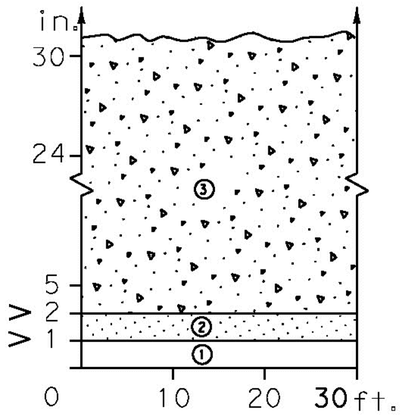
TRAFFIC CONTROL NOTES

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	18
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

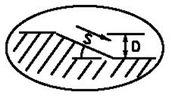
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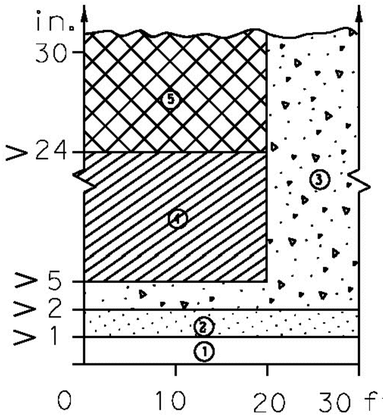
DEFINITION OF TREATMENT ZONES FOR VARIOUS EDGE CONDITIONS

Edge Height (D) in Inches versus Lateral Clearance (Y) in Feet

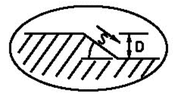


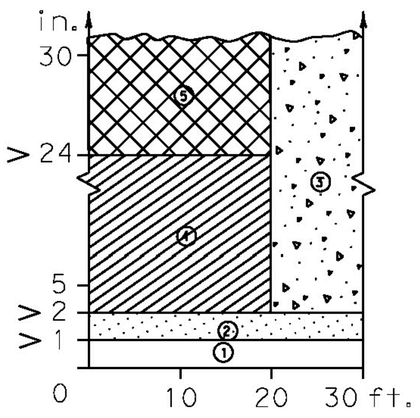
Edge Condition I
S = (3:1) (or flatter)



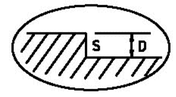


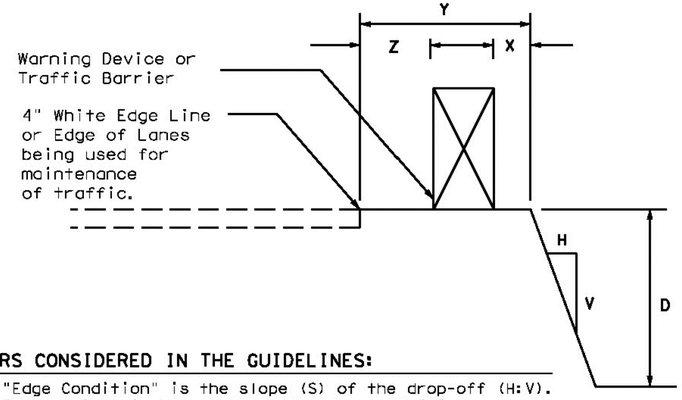
Edge Condition II
S = ((2.99):1) to (1:1)





Edge Condition III
S is steeper than (1:1)





FACTORS CONSIDERED IN THE GUIDELINES:

1. The "Edge Condition" is the slope (S) of the drop-off (H:V). The "Edge Height is the depth of the drop-off "D".

2. Distance "X" is to be the maximum practical under job conditions. Two feet minimum for high speed conditions. Distance "Y" is the lateral clearance from edge of travel lane to edge of dropoff. Distance "Z" does not have a minimum.

3. In addition to the factors considered in the guidelines, each construction zone drop-off situation should be analyzed individually, taking into account other variables, such as: traffic mix, posted speed in the construction zone, horizontal curvature, and the practicality of the treatment options.

4. The conditions for indicating the use of positive or protective barriers are given by Zone-5 and Figure-1. Traffic barriers are primarily applicable for high speed conditions. Urban areas with speeds of 30 mph or less may have a lesser need for signing, delineation, and barriers. Right-angled edges, however, with "D" greater than 2 inches and located within a lateral offset of 6 feet, may indicate a higher level of treatment.

5. If the distance "Y" must be less than 3 feet, the use of a positive barrier may not be feasible. In such a case, consider either: 1) narrowing the lanes to a desired 11 to 12 feet or 10 foot minimum (see CW20-8 sign), or 2) provide an edge slope such as Edge Condition I.

Zone	Treatment Types Guidelines:
①	No treatment
②	CW 8-11 "Uneven Lanes" signs.
③	CW 8-9a Shoulder Drop-Off" or CW 8-11 signs plus vertical panels.
④	CW8-9a or CW 8-11, signs plus drums. Where restricted space precludes the use of drums, use vertical panels. An edge slope to that of the profered Edge Condition I.
⑤	Check indications (Figure-1) for possitive barrier. Where positive barrier is not indicated, the treatment shown above for Zone-4 may be used after consideration of other applicable factors.

Edge Condition Notes:

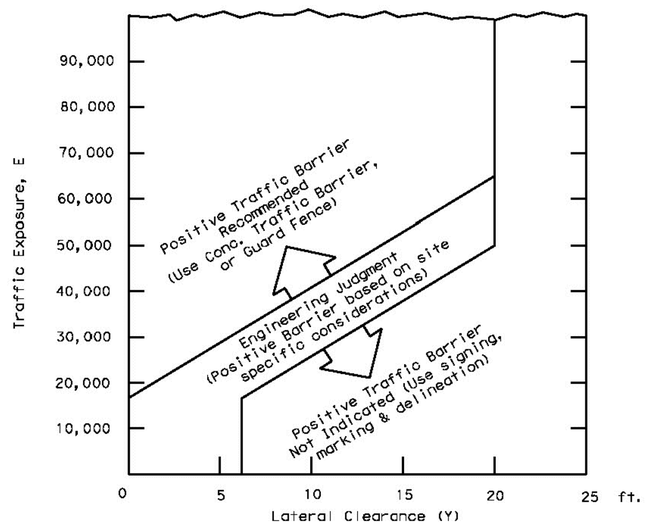
1. Edge Condition I: Most vehicles are able to traverse an edge condition with a slope rate of (3 to 1) or flatter. The slope must be constructed with a compacted material capable of supporting vehicles.

2. Edge Condition II: Most vehicles are able to traverse an edge condition with a slope between (2.99 to 1) and (1 to 1) so long as "D" does not exceed 5 inches. Under-carriage drag on most automobiles will occur when "D" exceeds 6 inches. As "D" exeeds 24 inches, the possibility for rollover is greater in most vehicles.

3. Edge Condition III: When slopes are greater than (1 to 1) and where "D" is greater than 2 inches, a more difficult control factor may exist for some vehicles, if not properly treated. For example, where "D" is greater than 2 inches and up to 24 inches different types of vehicles may experience different steering control at different edge heights. Automobiles might experience more steering control differential when "D" is greater than 2 inches and up to 5 inches. Trucks, particularly those with high loads, have more steering control differential when "D" is greater than 5 inches and up to 24 inches. When "D" exceeds 24 inches, the possibility of rollover is greater for most vehicles.

4. Milling or overlay operations that result in Edge Condition III should not be in place without appropriate warning treatments, and these conditions should not be left in place for extended periods of time.

FIGURE-1: CONDITIONS INDICATING USE OF POSITIVE BARRIER FOR ZONE 5 (▩)



1. E = ADT x T
Where ADT is that portion of the average daily traffic volume traveling within 20 feet (generally two adjacent lanes) of the edge dropoff condition; and, T is the duration time in years of the dropoff condition.

2. Figure-1 provides a practical approach to the use of positive barriers for the protection of vehicles from pavement drop-offs. Other factors, such as the presence of heavy machinery, construction workers, or the mix and volume of traffic may make the use of positive barriers appropriate, even when the edge condition alone may not justify the use of a barrier.

3. An approved end treatment should be provided for any positive barrier end located within the clear zone.

These guidelines apply to temporary traffic control areas or work zones where continuous pavement edges or drop-offs exists parallel and adjacent to a lane used by traffic. The edge conditions may be present between shoulders and travel lanes, between adjacent or opposing travel lanes, or at intermediate points across the width of the paved surface. Due to the variability in construction operations, tolerances in the variables may be allowed by the engineer. These guidelines do not apply to short term operations. These guidelines do not constitute a rigid standard or policy; rather, they are guidance to be used in conjunction with engineering judgement. These guidelines may be updated on the Design Division's on-line manuals.

Engineer's Seal

Date _____

Texas Department of Transportation

Traffic Safety Division Standard

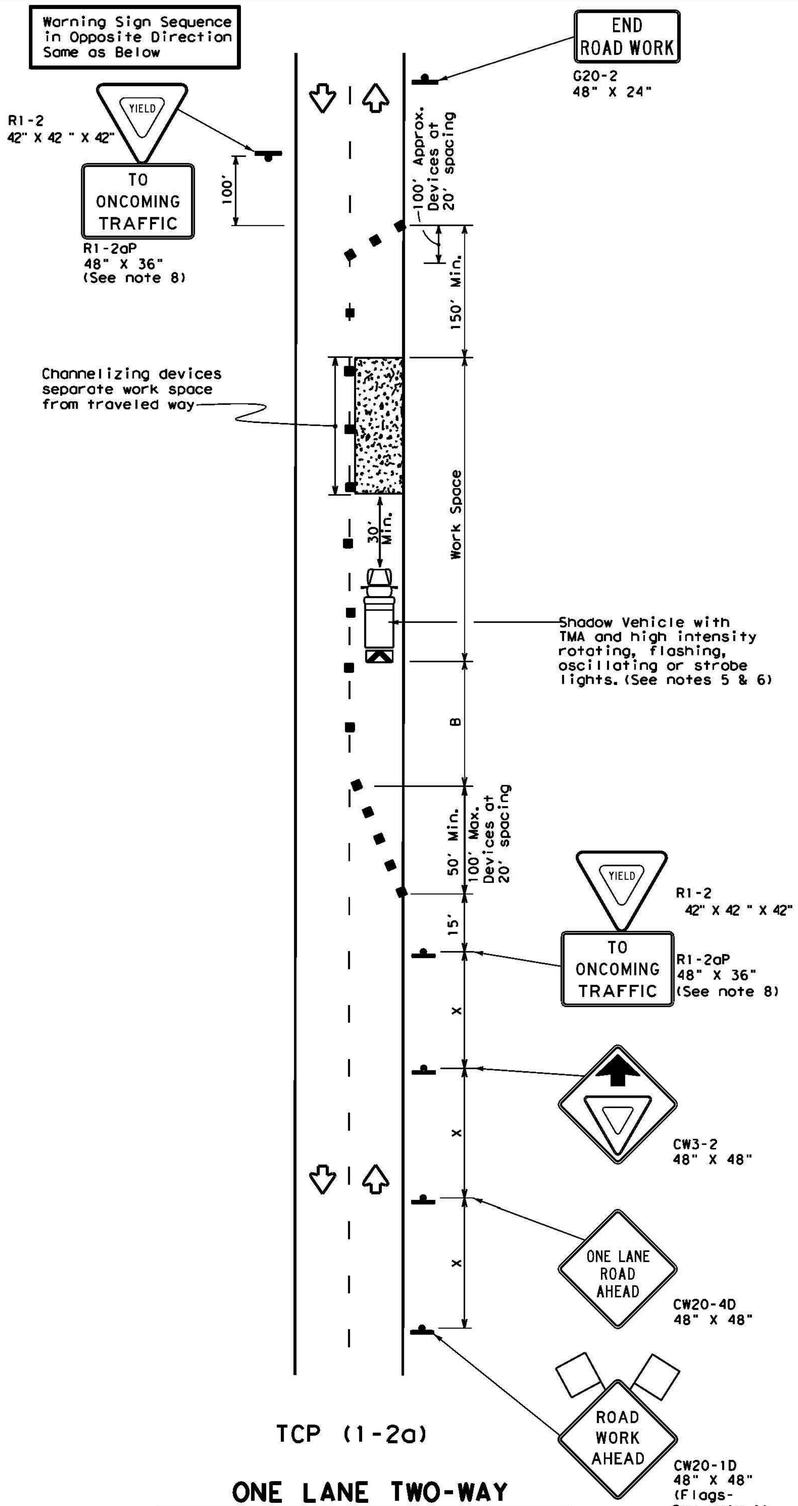
TREATMENT FOR VARIOUS EDGE CONDITIONS

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©TxDOT	August 2000	CONT	SECT	JOB	HIGHWAY
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08-01		18	ROCKWALL		19
9-21					

DATE:
FILE:

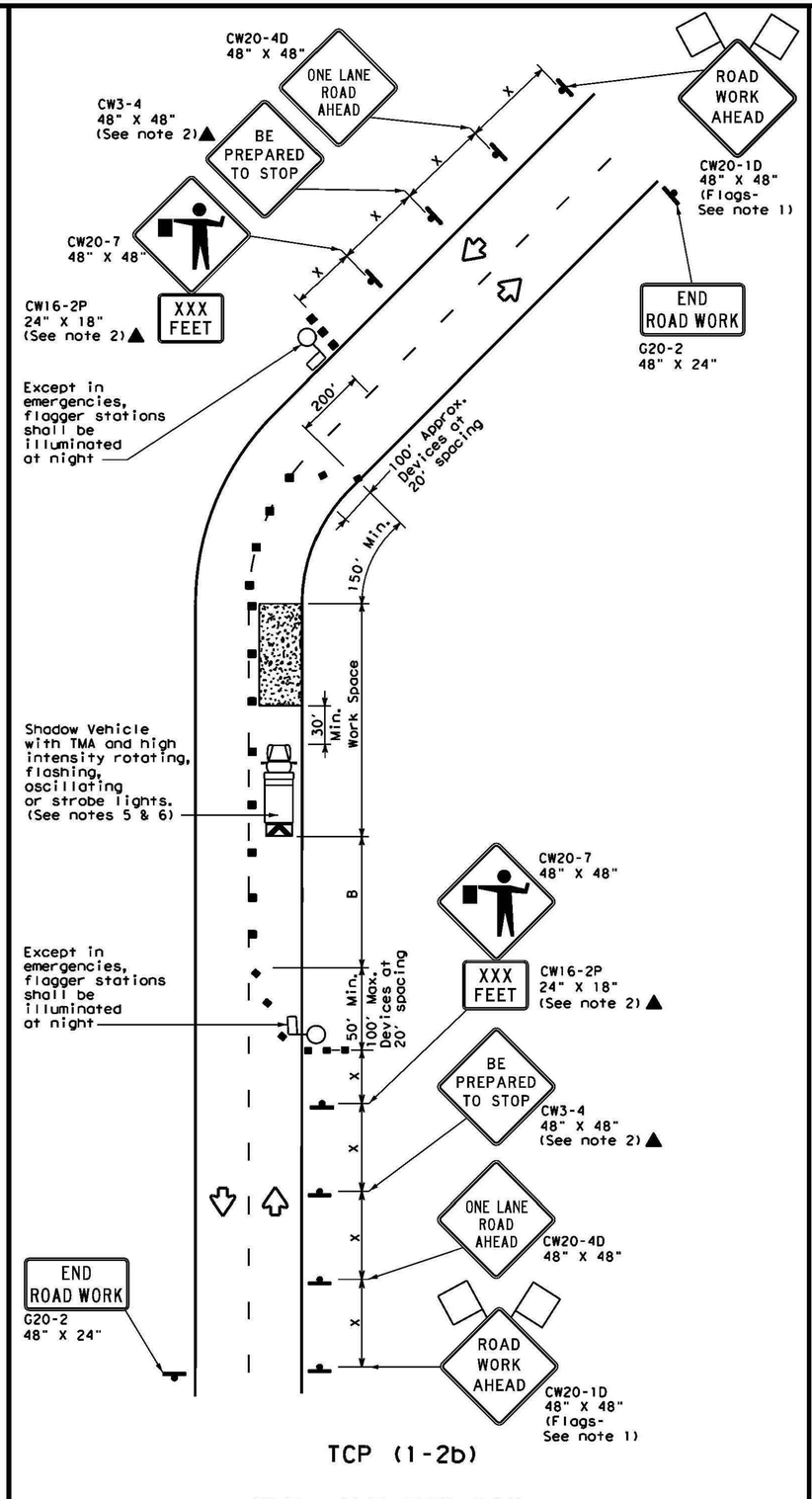
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TCP (1-2a)

ONE LANE TWO-WAY
CONTROL WITH YIELD SIGNS
(Less than 2000 ADT - See note 7)



TCP (1-2b)

ONE LANE TWO-WAY
CONTROL WITH FLAGGERS

LEGEND

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

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

TYPICAL USAGE

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

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
4. Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
5. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
6. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-2a)

7. R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 400 feet.
8. R1-2 "YIELD" sign with R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.

TCP (1-2b)

9. Flaggers should use two-way radios or other methods of communication to control traffic.
10. Length of work space should be based on the ability of flaggers to communicate.
11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
12. Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.
13. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

Texas Department of Transportation

Traffic Operations Division Standard

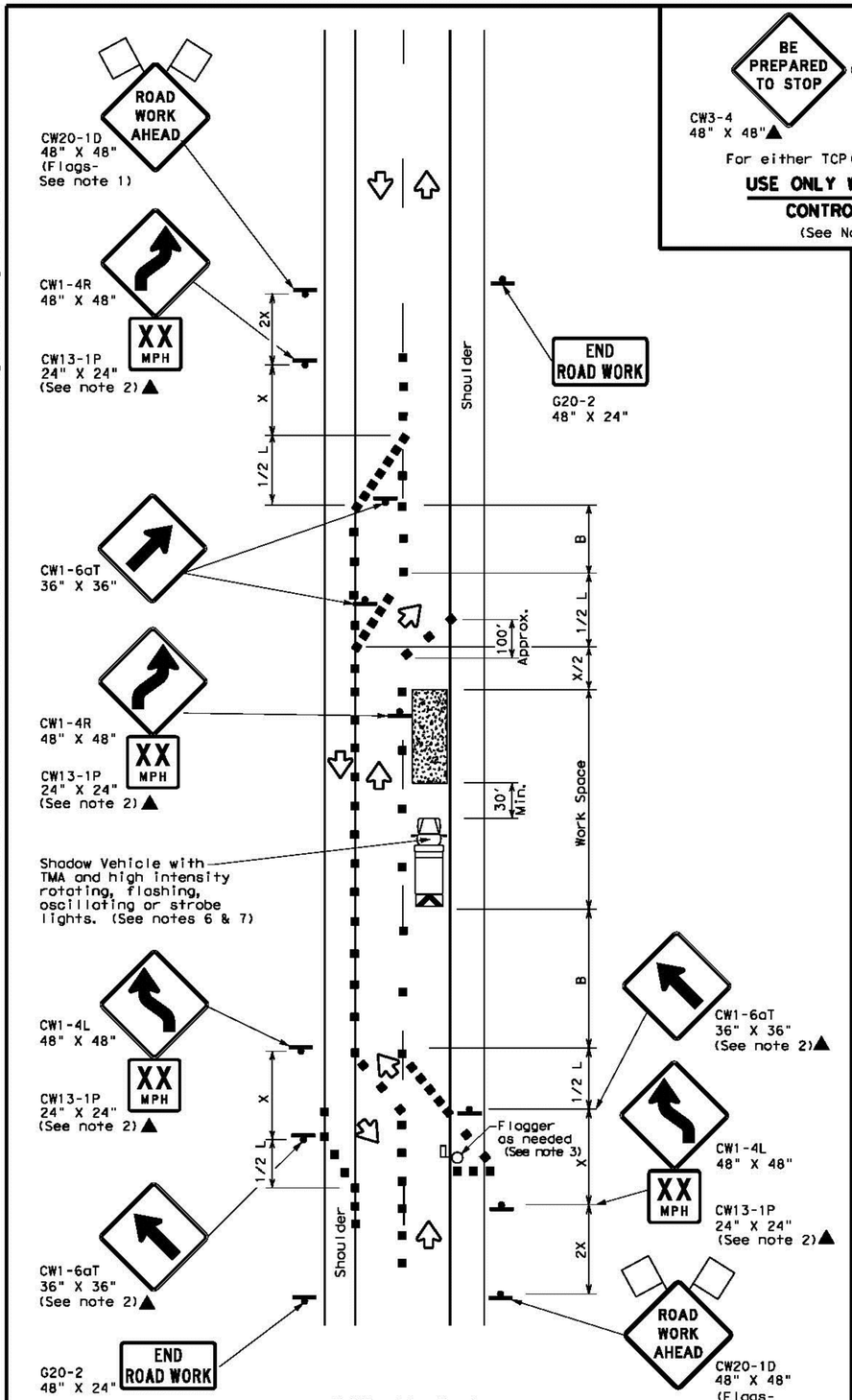
TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY TRAFFIC CONTROL

TCP(1-2)-18

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©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
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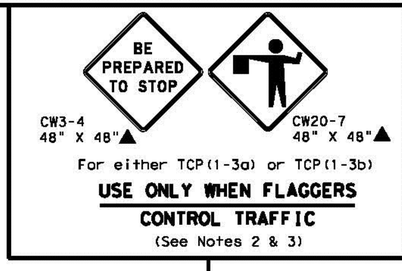
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TCP (1-3a)
2-LANE ROADWAY WITH PAVED SHOULDERS

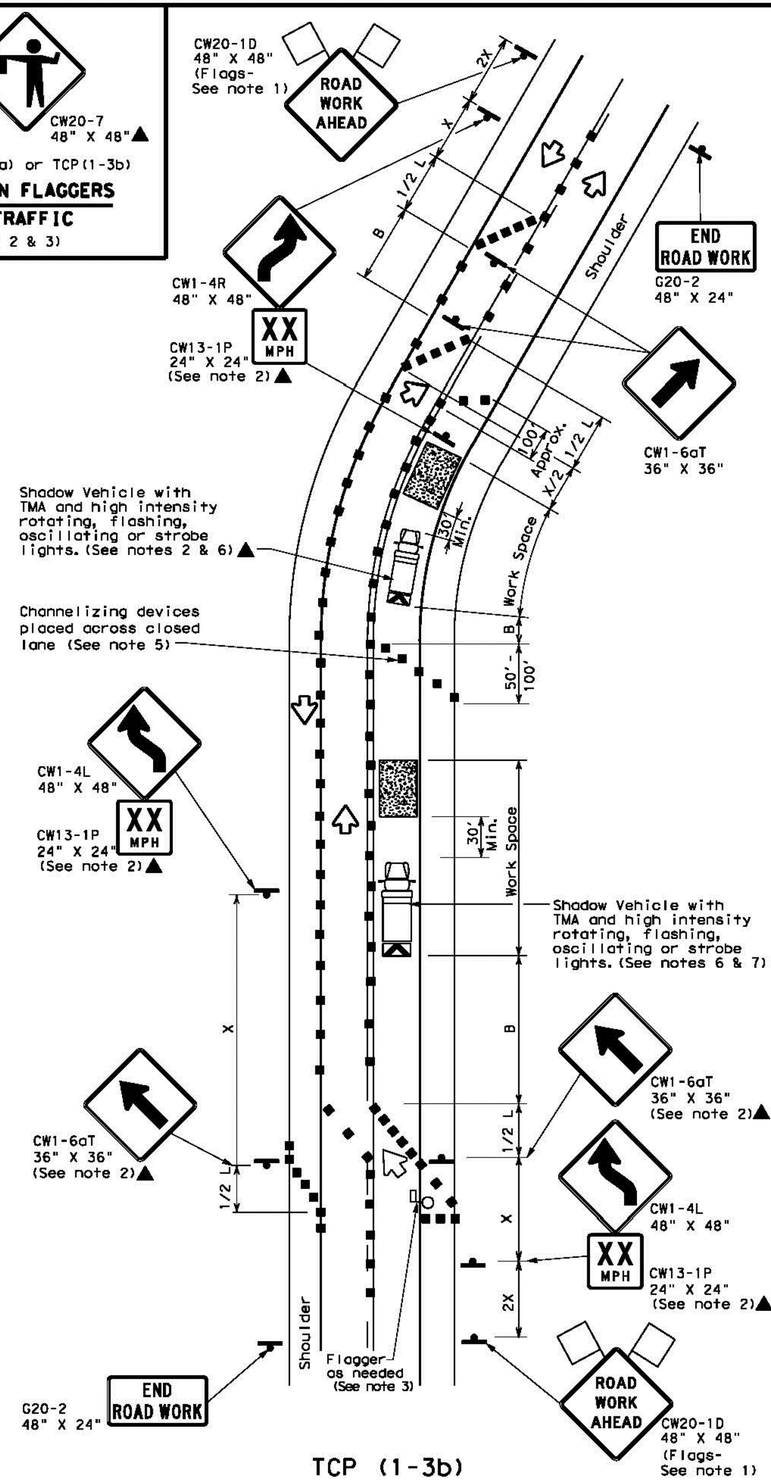
ONE LANE CLOSED
ADEQUATE FIELD OF VIEW



For either TCP(1-3a) or TCP(1-3b)

USE ONLY WHEN FLAGGERS CONTROL TRAFFIC

(See Notes 2 & 3)



TCP (1-3b)
2-LANE ROADWAY WITH PAVED SHOULDERS

ONE LANE CLOSED
INADEQUATE FIELD OF VIEW

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

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

* Conventional Roads Only

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

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

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Additional flaggers may be positioned in advance of traffic queues to alert traffic to reduce speed.
4. DO NOT PASS, PASS WITH CARE and construction regulatory speed zone signs may be installed downstream of the ROAD WORK AHEAD signs.
5. When the work zone is made up of several work spaces, channelizing devices should be placed laterally across the closed lane to re-emphasize closure. Laterally placed channelizing devices should be repeated every 500 to 1000 feet in urban areas and every 1/4 to 1/2 mile in rural areas.
6. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
8. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20', or 15' if posted speed are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the area of conflicting markings not the entire work zone.

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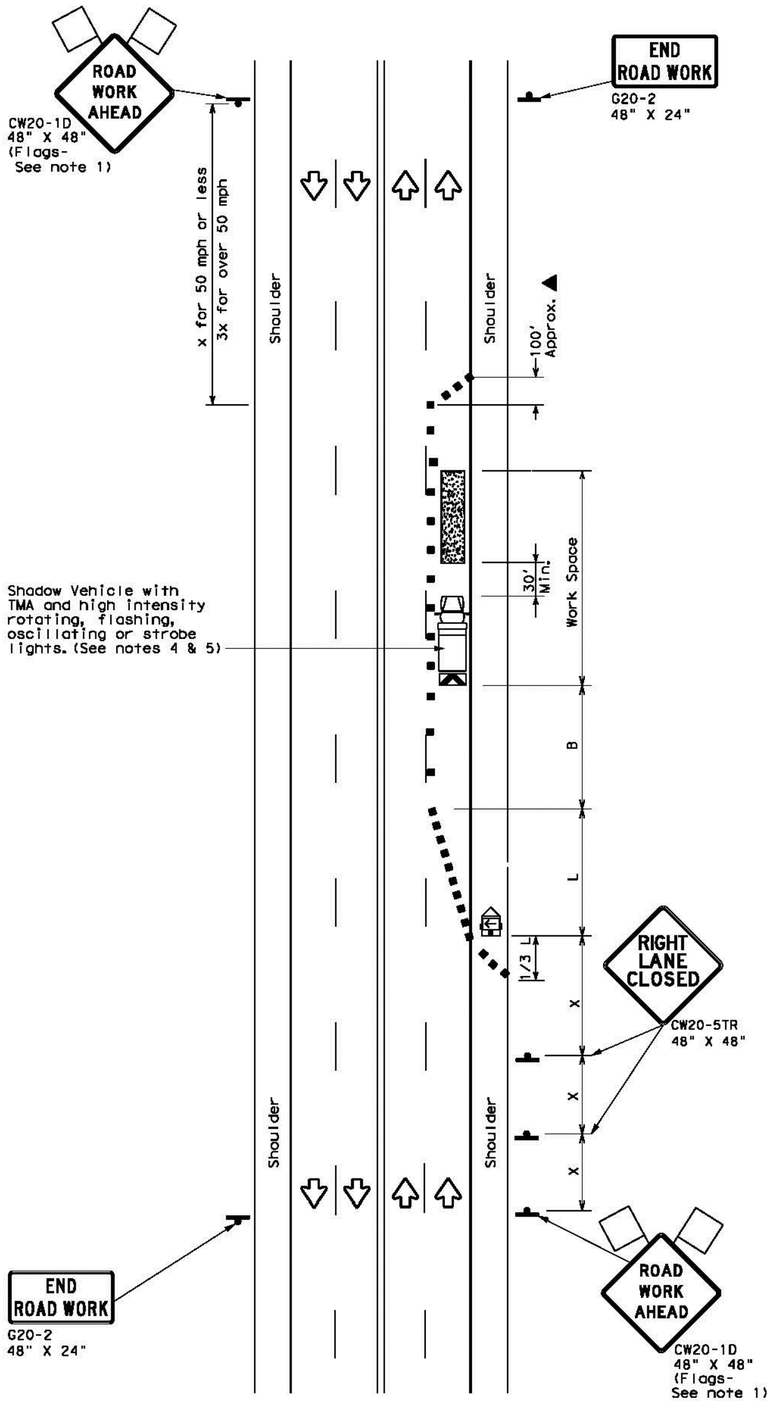
TRAFFIC CONTROL PLAN
TRAFFIC SHIFTS ON TWO LANE ROADS

TCP(1-3)-18

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©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
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	18	ROCKWALL		21

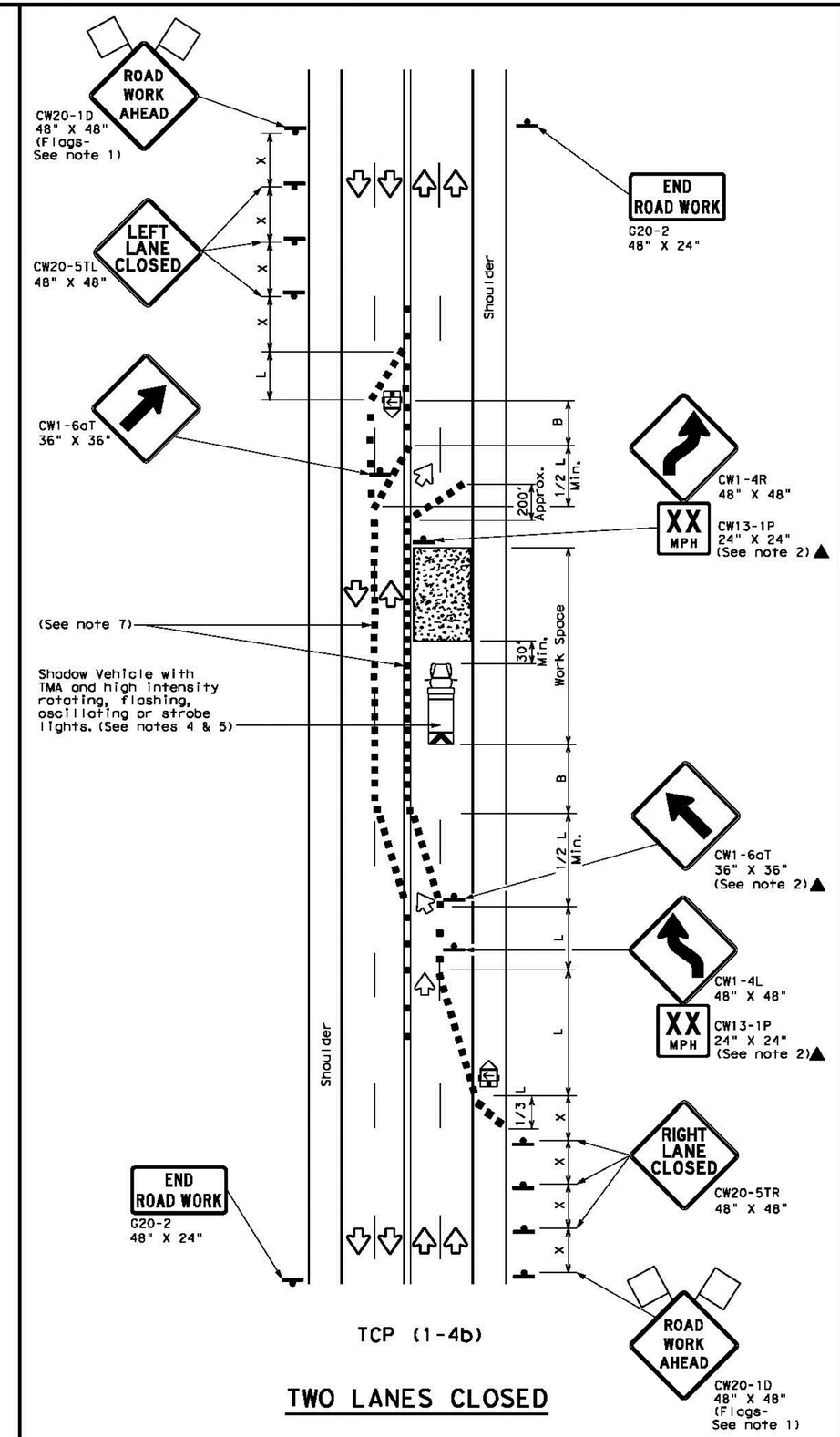
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TCP (1-4a)

ONE LANE CLOSED



TCP (1-4b)

TWO LANES CLOSED

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

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

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

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

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the visibility of the work zone is less than 1500 feet.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-4a)

6. If this TCP is used for a left lane closure , CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed lane near the end of the merging taper.

TCP (1-4b)

7. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

Texas Department of Transportation

Traffic Operations Division Standard

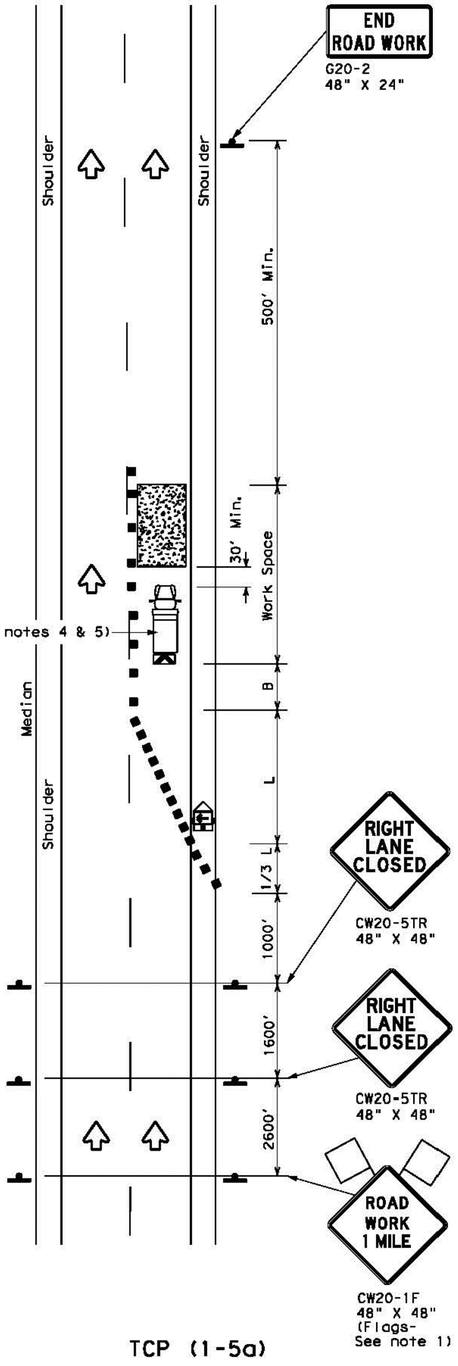
TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP(1-4)-18

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©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-94 4-98 8-95 2-12 1-97 2-18	1014	03	063	FM 740
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	18	ROCKWALL		22

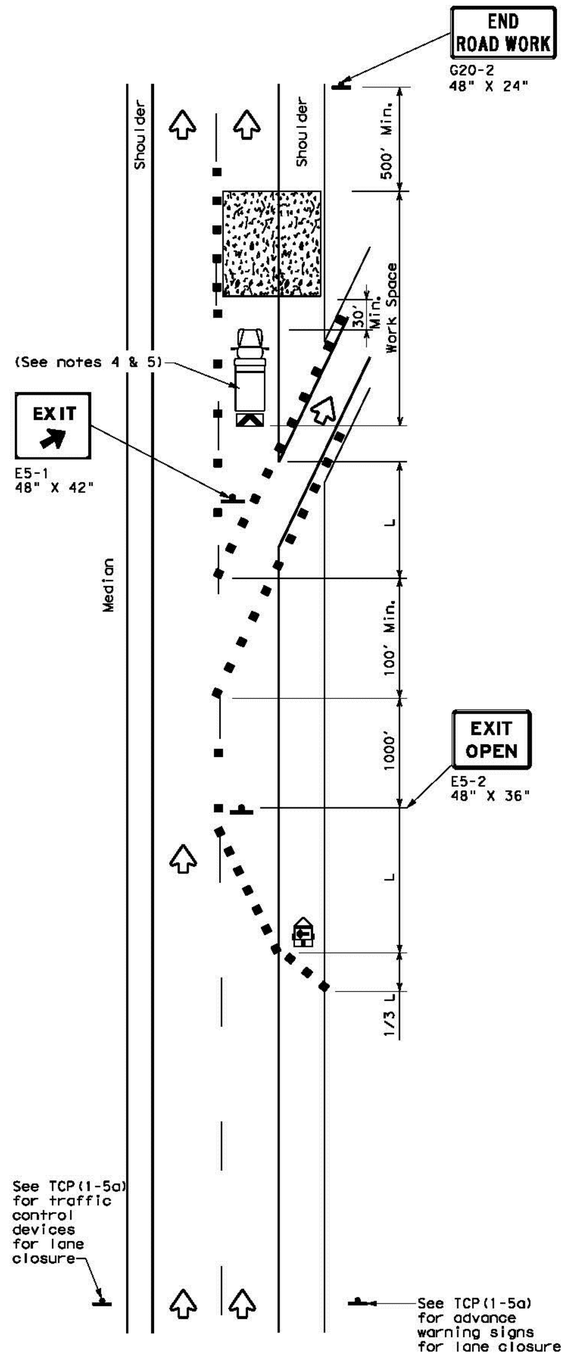
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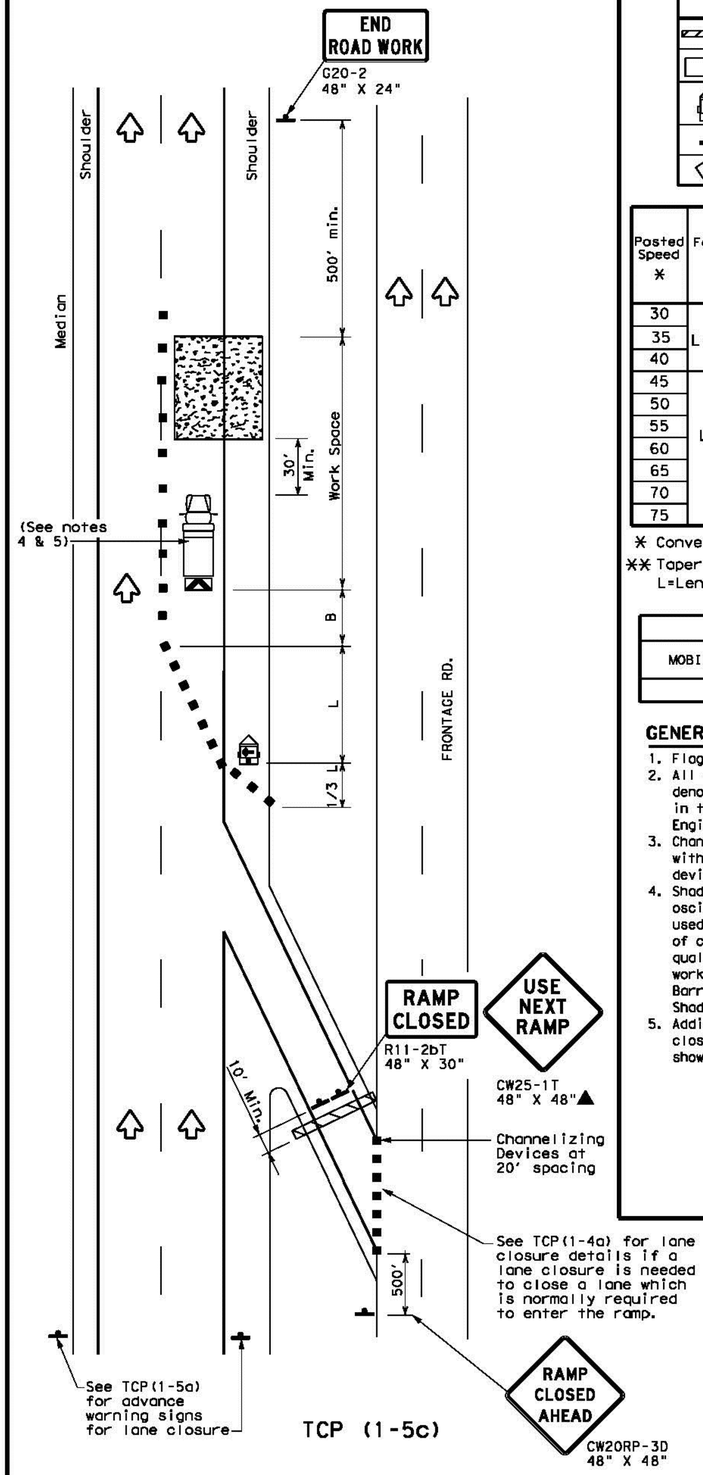
TCP (1-5a)

ONE LANE CLOSURE



TCP (1-5b)

LANE CLOSURE NEAR EXIT RAMPS



TCP (1-5c)

LANE CLOSURE NEAR ENTRANCE RAMPS

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

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

* Conventional Roads Only

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

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

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
4. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

Texas Department of Transportation

Traffic Operations Division Standard

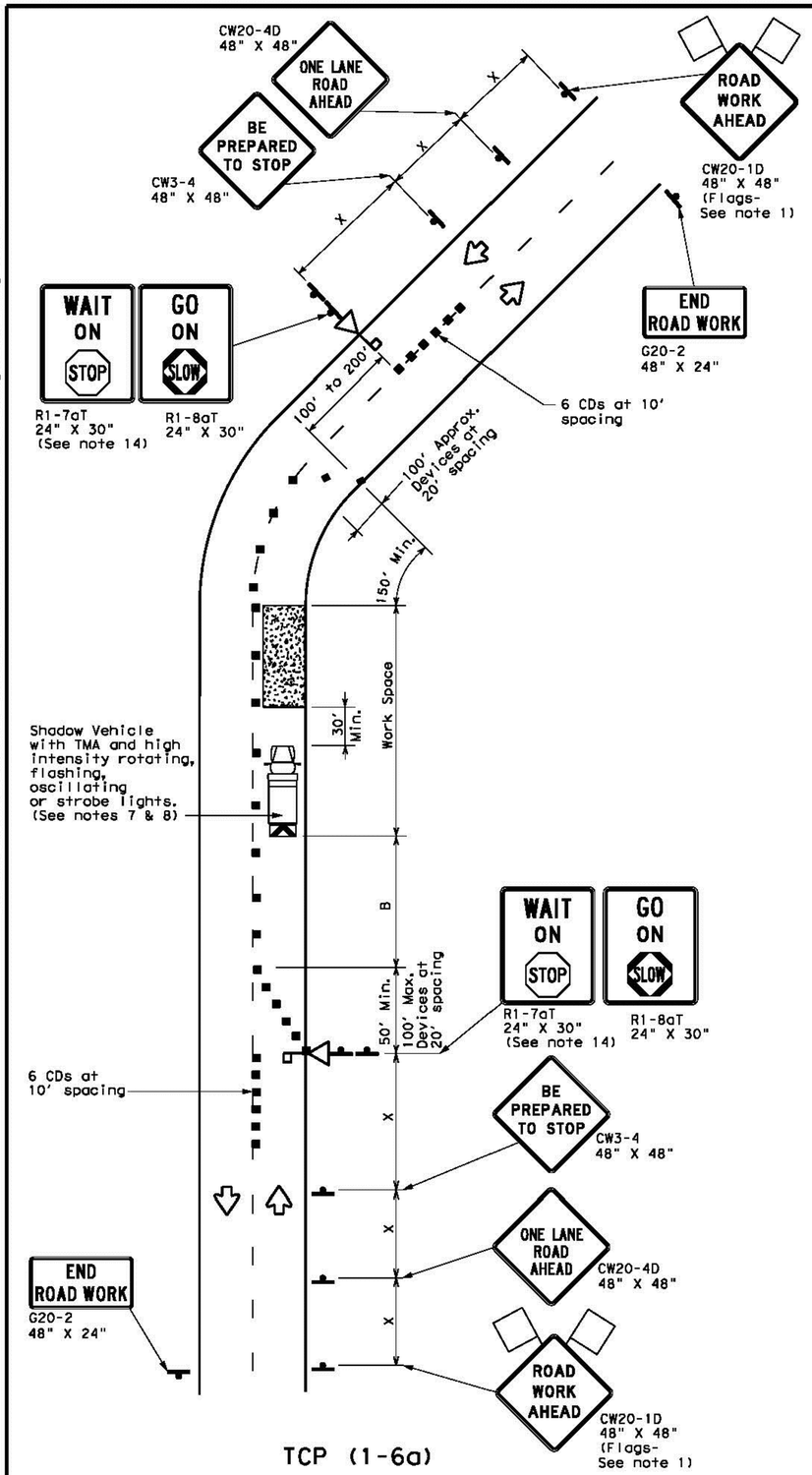
TRAFFIC CONTROL PLAN LANE CLOSURES FOR DIVIDED HIGHWAYS

TCP(1-5)-18

FILE: tcp1-5-18.dgn	DN:	CK:	DW:	CK:
©TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-18	1014	03	063	FM 740
	DIST	COUNTY		SHEET NO.
	18	ROCKWALL		23

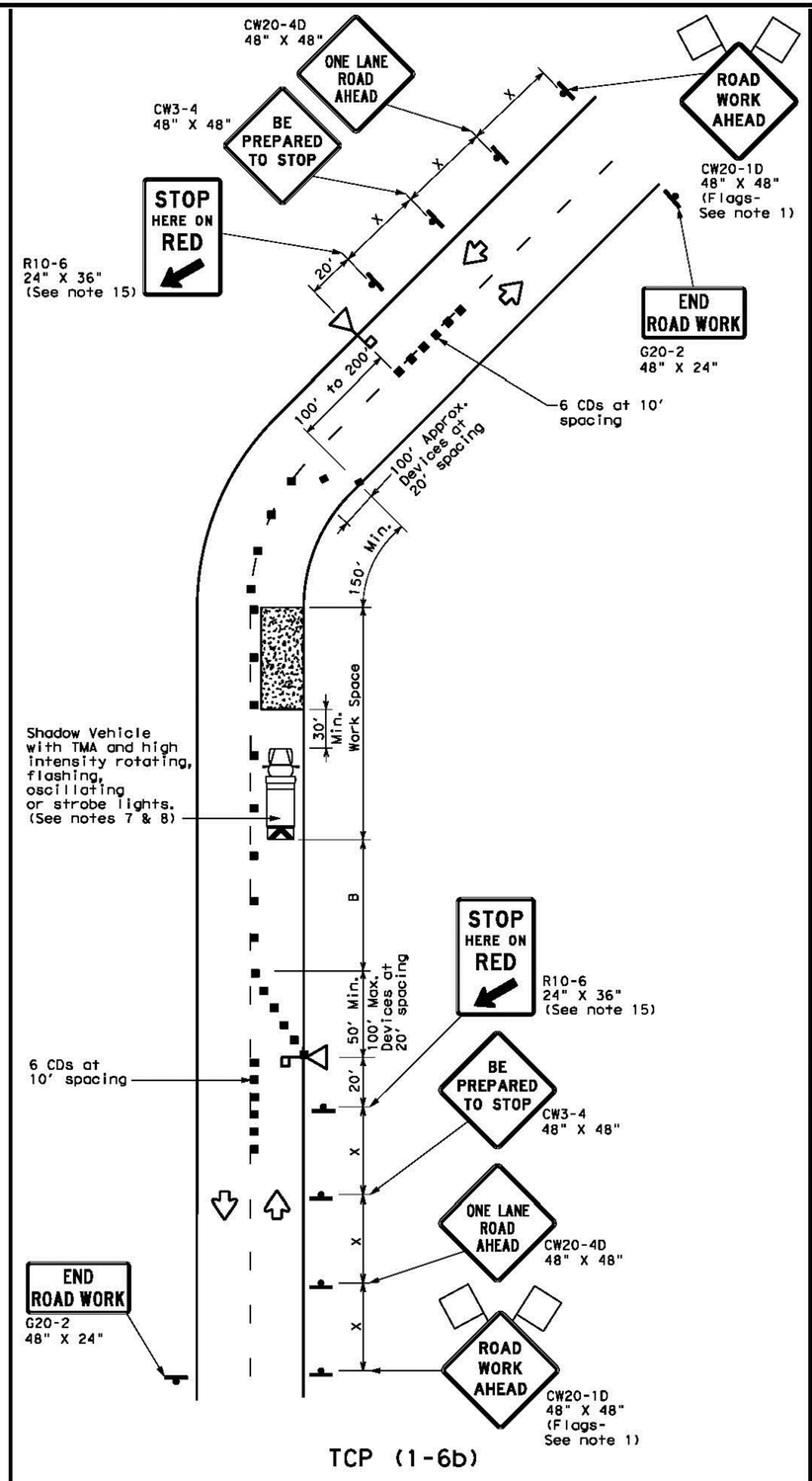
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TCP (1-6a)

ONE LANE TWO-WAY CONTROL WITH STOP/SLOW AFADs



TCP (1-6b)

ONE LANE TWO-WAY CONTROL WITH RED/YELLOW LENS AFADs

LEGEND			
	Type 3 Barricade	■ ■	Channelizing Devices (CDs)
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Automated Flagger Assistance Device (AFAD)	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

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

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

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. AFADs shall only be used in situations where there is one lane of approaching traffic in the direction to be controlled.
3. Adequate stopping sight distance must be provided to each AFAD location for approaching traffic. (See table above).
4. Each AFAD shall be operated by a qualified/certified flagger. Flaggers operating AFADs shall not leave them unattended while they are in use.
5. One flagger may operate two AFADs only when the flagger has an unobstructed view of both AFADs and of the approaching traffic in both directions.
6. When pilot cars are used, a flagger controlling traffic shall be located on each approach. AFADs shall not be operated by the pilot car operator.
7. All AFADs shall be equipped with gate arms with an orange or fluorescent red-orange flag attached to the end of the gate arm. The flag shall be a minimum of 16" square.
8. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
9. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
10. Flaggers should use two-way radios or other methods of communication to control traffic.
11. Length of work space should be based on the ability of flaggers to communicate.
12. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the AFAD.
13. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
14. The R1-7aT "WAIT ON STOP" sign and the R1-8aT "GO ON SLOW" sign shall be installed at the AFAD location on separate supports or they may be fabricated as one 48" x 30" sign. They shall not obscure the face of the STOP/SLOW AFAD.
15. The R10-6 "STOP HERE ON RED" arrow sign shall be offset so as not to obscure the lenses of the AFAD.

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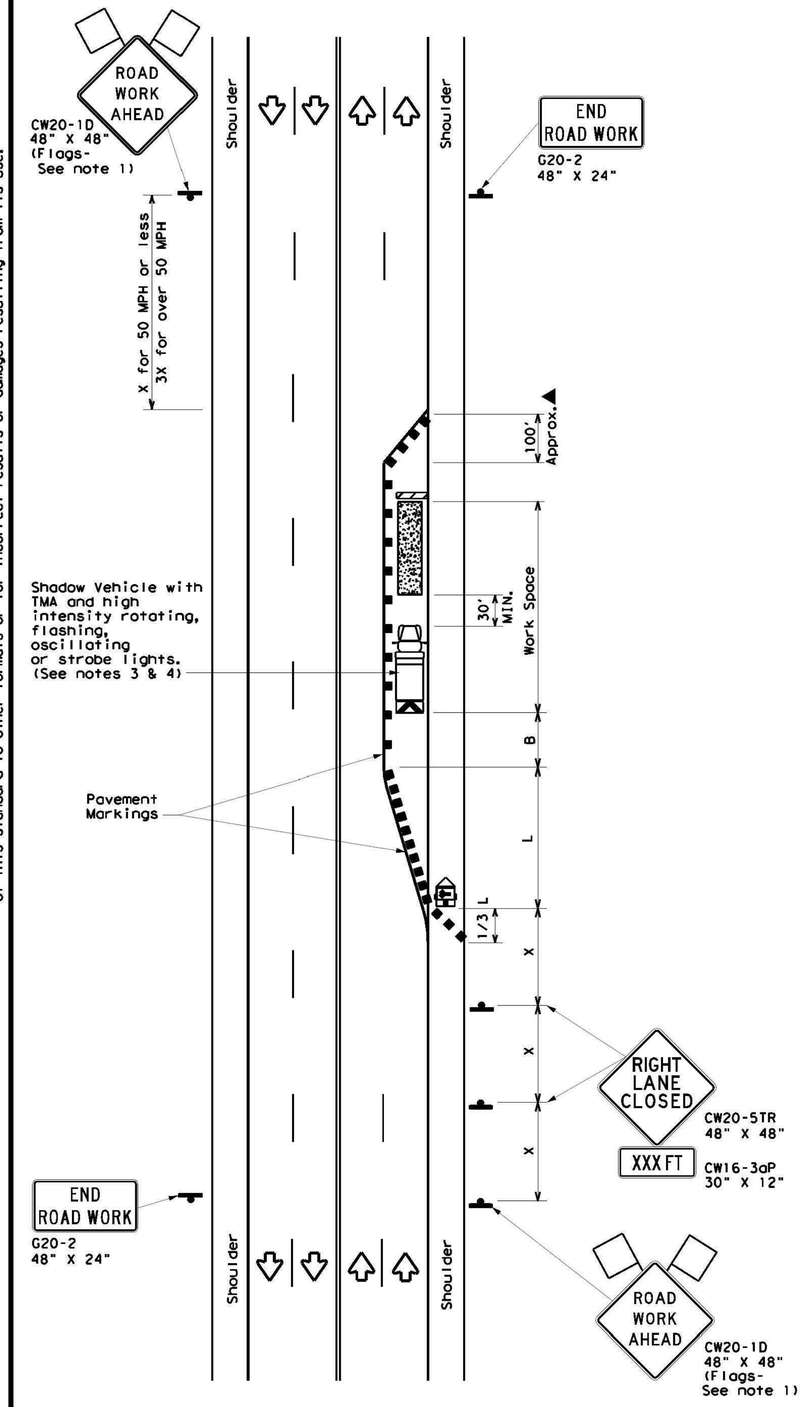
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS)
TCP(1-6)-18

FILE: tcp1-6-18.dgn	DN:	CK:	DW:	CK:
©TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
2-18	DIST	COUNTY		SHEET NO.
	18	ROCKWALL		24

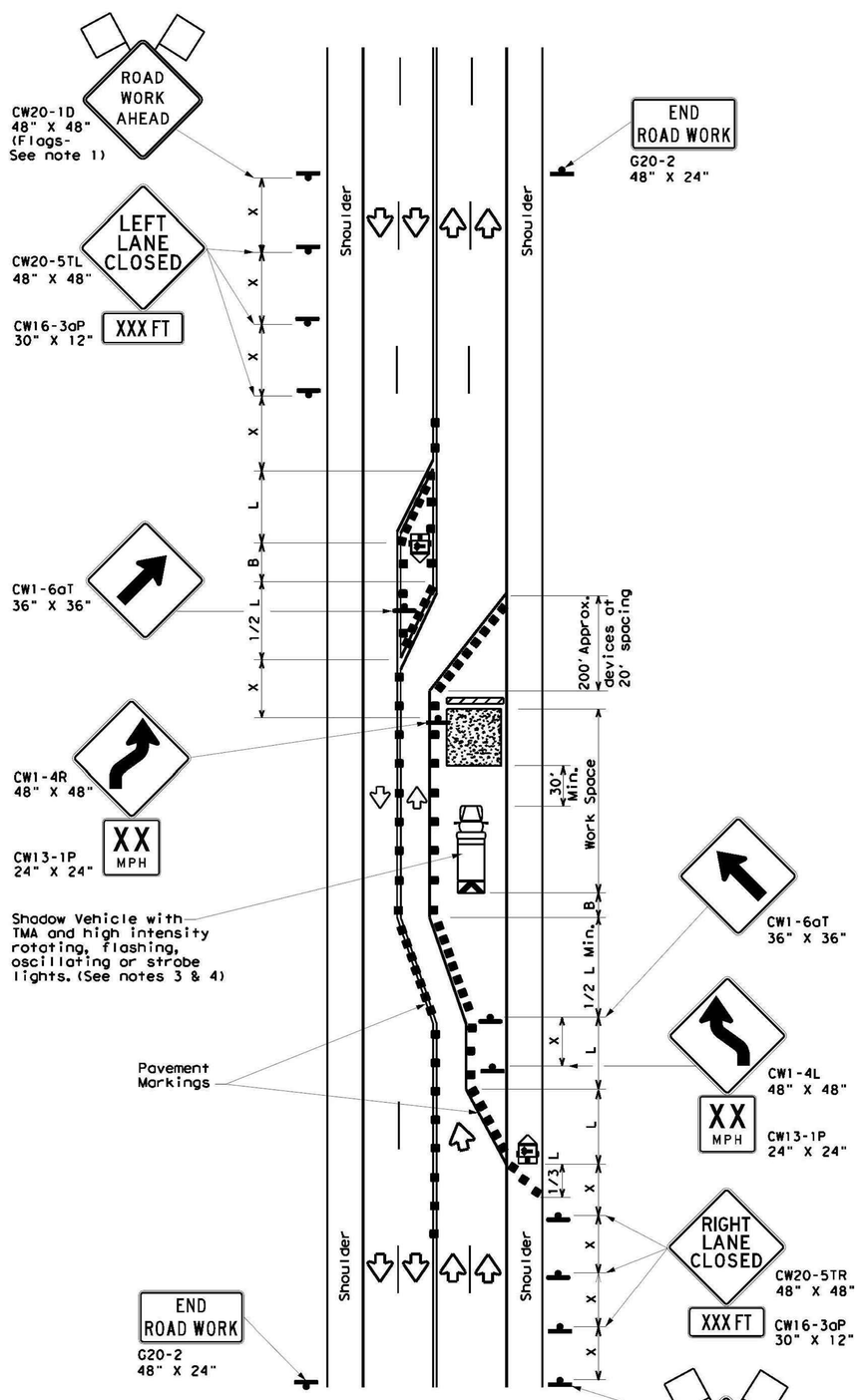
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TCP (2-5a)

ONE LANE CLOSED



TCP (2-5b)

TWO LANES CLOSED

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

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

* Conventional Roads Only

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

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

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew eposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substitutued for the Shadow Vehicle and TMA.
4. Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.
5. The downstream taper is optional. When used, it should be 100 feet approximately per lane, with channelizing devices spaced at 20 feet.

TCP (2-5a)

6. If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline to protect the work space from opposing traffic, with the arrow board placed in the closed lane near the end of the merging taper.

TCP (2-5b)

7. Conflicting pavement markings shall be removed for long-term projects.

Texas Department of Transportation

Traffic Operations Division Standard

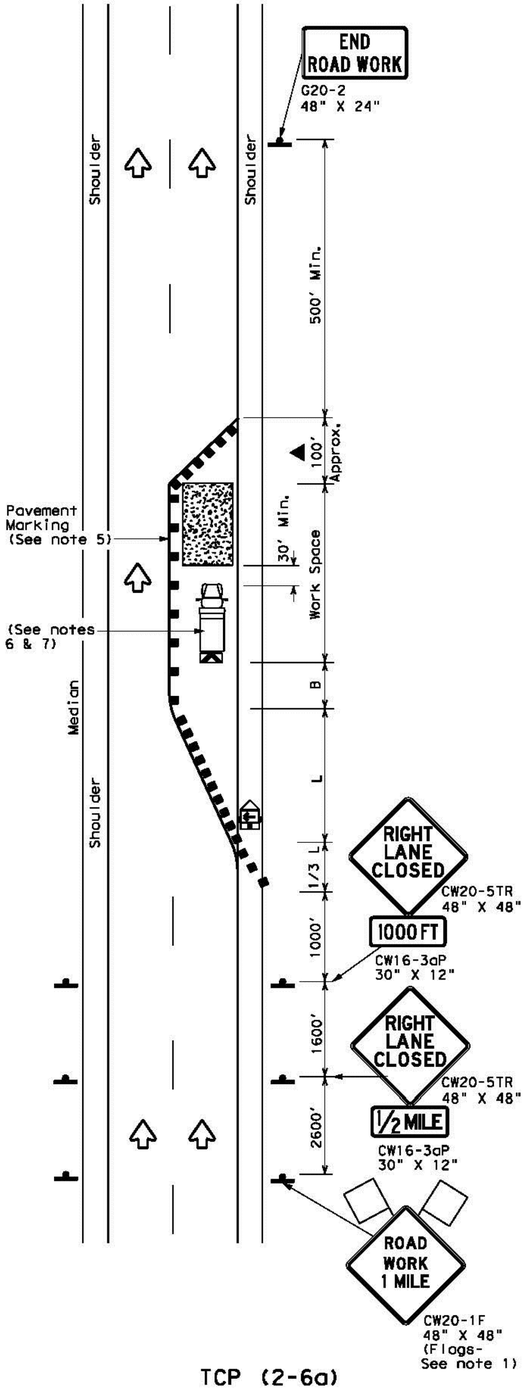
TRAFFIC CONTROL PLAN LONG TERM LANE CLOSURES MULTILANE CONVENTIONAL RDS.

TCP(2-5)-18

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©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
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8-95 2-12	DIST	COUNTY		SHEET NO.
1-97 3-03	18	ROCKWALL		25
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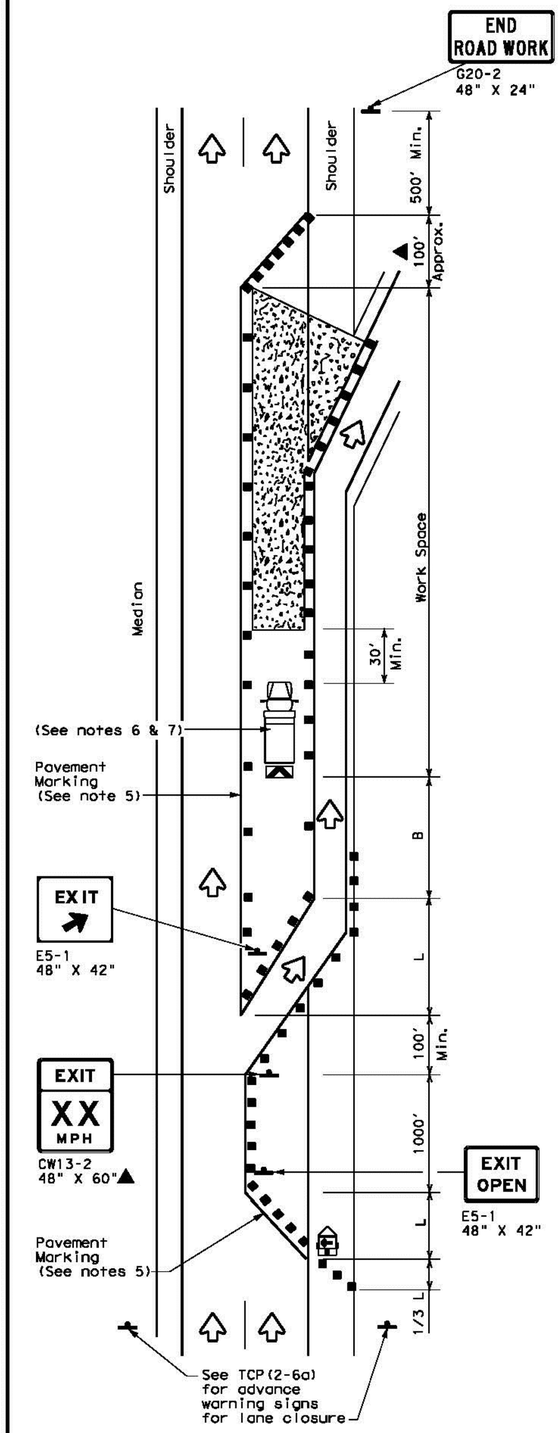
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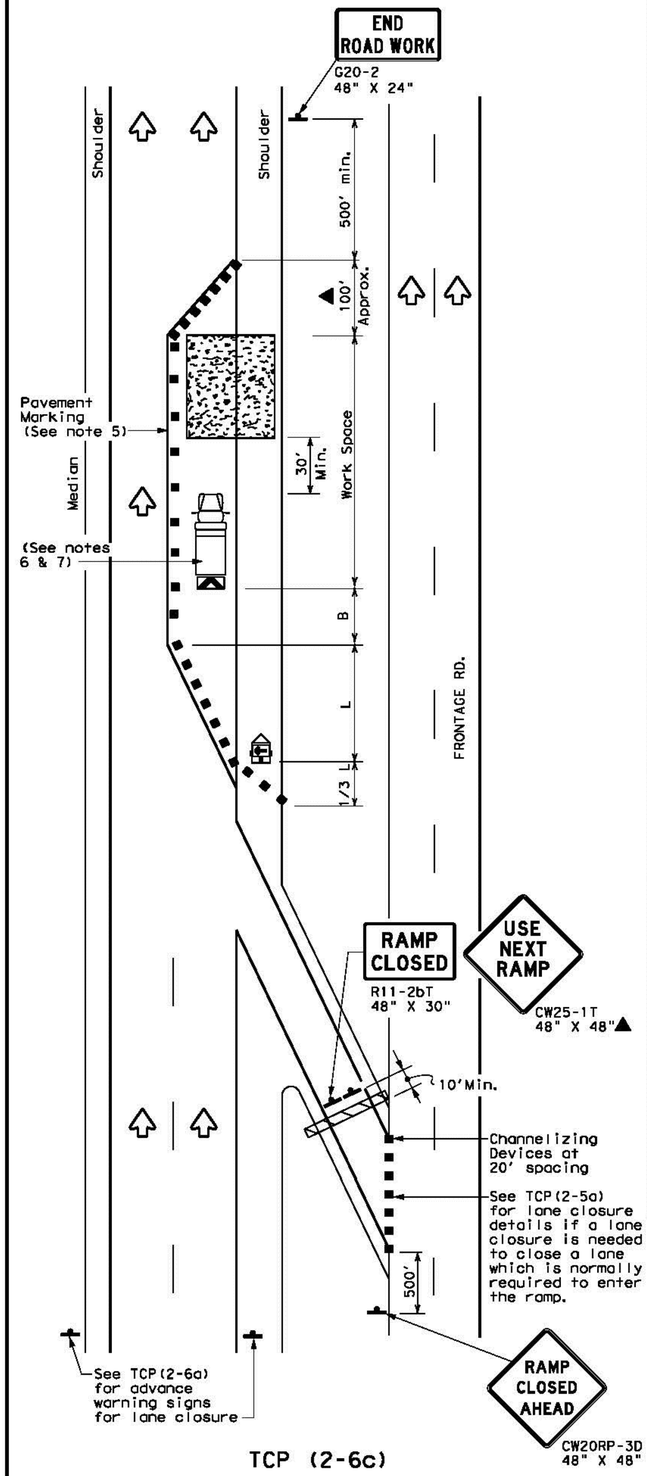
TCP (2-6a)

ONE LANE CLOSURE



TCP (2-6b)

LANE CLOSURE NEAR EXIT RAMPS



TCP (2-6c)

LANE CLOSURE NEAR ENTRANCE RAMPS

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
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40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

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

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

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
4. Channelizing devices used along the work space or along tangent sections may be supplemented with vertical panels (VP) placed on everyother channelizing device. If night time conditions make it difficult to see at least two VPs, the VPs may be placed on each channelizing device.
5. The placement of pavement markings may be omitted on intermediate-term stationary work zones with the approval of the Engineer.
6. Shadow Vehicle with TMA and high intensity rotating, flashing,oscillating or strobe lights. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
7. Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

Texas Department of Transportation

Traffic Operations Division Standard

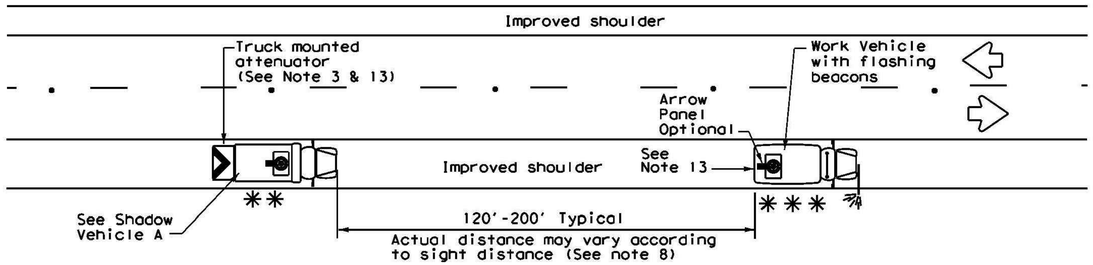
TRAFFIC CONTROL PLAN LANE CLOSURES ON DIVIDED HIGHWAYS

TCP(2-6)-18

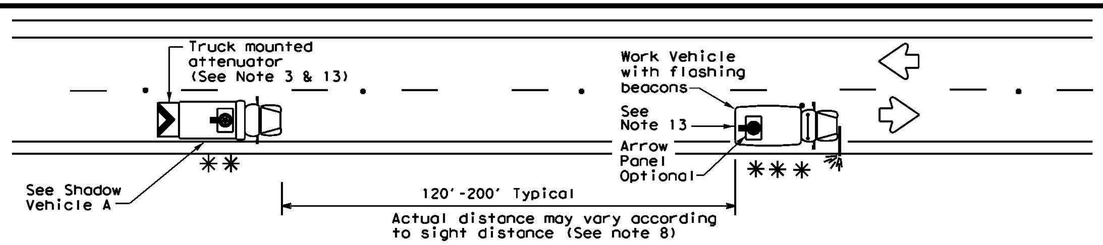
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© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
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2-94 4-98	DIST	COUNTY		SHEET NO.
8-95 2-12	18	ROCKWALL		26
1-97 2-18				

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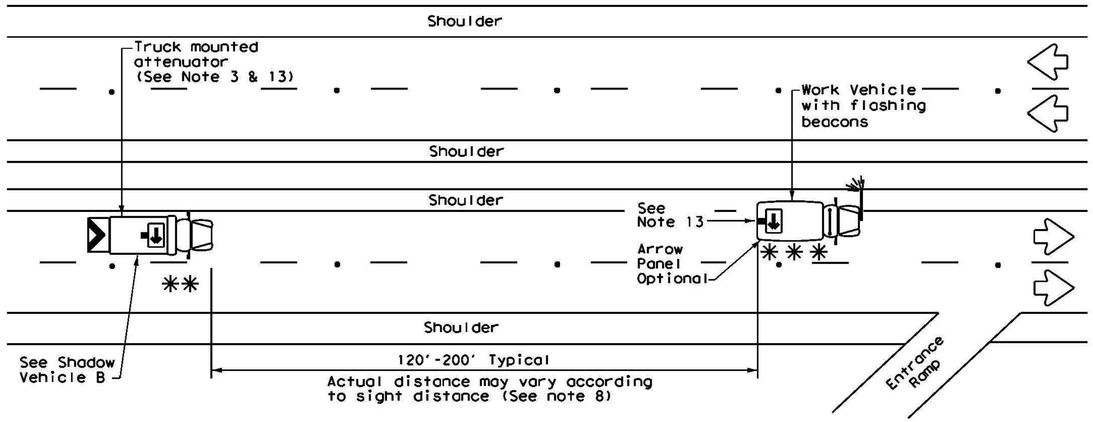
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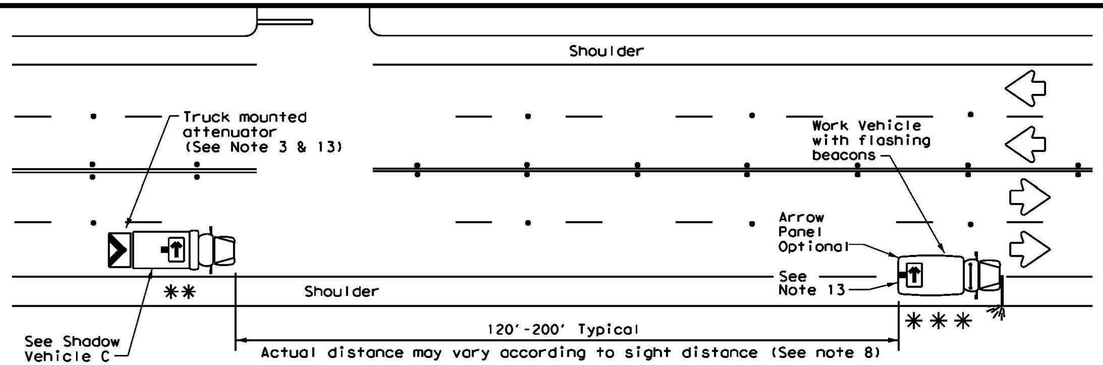
TWO LANE HIGHWAY WITH PAVED SHOULDERS MINIMUM 8'



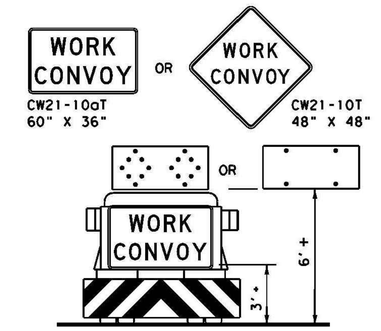
TWO LANE HIGHWAY WITH NO SHOULDER OR NARROW SHOULDER



MULTILANE HIGHWAY

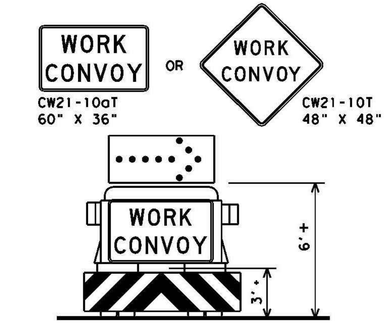


MULTILANE HIGHWAY



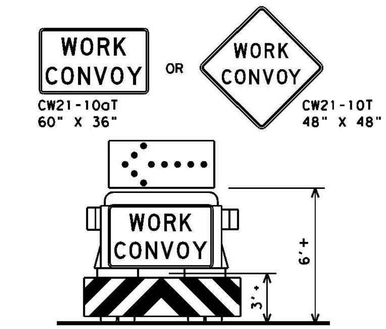
SHADOW VEHICLE A

with Flashing Arrow Board in Caution Mode



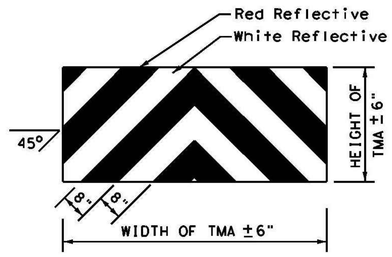
TYPICAL SHADOW VEHICLE B

with RIGHT Directional display Flashing Arrow Board



TYPICAL SHADOW VEHICLE C

with LEFT Directional display Flashing Arrow Board



STRIPING FOR TMA

LEGEND			
**	Shadow Vehicle	ARROW BOARD DISPLAY	
***	Work Vehicle		
	Sign		RIGHT Directional
	Heavy Work Vehicle		LEFT Directional
	Traffic Flow		Double Arrow
	Truck Mounted Attenuator (TMA) or Trailer Attenuator (TA)		CAUTION (Alternating Diamond or 4 Corner Flash)

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

GENERAL NOTES

1. All traffic control devices shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD), latest edition.
2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
3. The use of truck mounted attenuators (TMA) on the Shadow Vehicle is required.
4. Striping on the back panel of all TMAs shall be 8" red reflective sheeting with white background, placed in an inverted "V" design. Reflective sheeting shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DMS-8300, TYPE A.
5. Flashing Arrow Panels shall be Type B or Type C as per BC Standards. The panel operation shall be controlled from inside the vehicle.
6. Each vehicle shall have two-way radio communication capability.
7. When the work convoy must change lanes, the Shadow Vehicle should change lanes first to protect the Work Vehicle.
8. Spacing between Shadow and Work Vehicle will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the Shadow Vehicle in time to slow down and/or change lanes as they approach the Work Convoy.
9. Use of an arrow panel on the Work Vehicle is optional except as provided in note 13, but may be required by the Engineer. If an arrow panel is not used, dual flashing beacons, mounted as high and as widely separated as practicable at the rear of the Work Vehicle shall be required.
10. On two-lane two-way roadways, the Work and Shadow Vehicles should pull over periodically to allow motor vehicle traffic to pass.
11. Work and Shadow Vehicles should stay on the shoulder of highways having 8' or wider shoulders when possible.
12. A Trail Vehicle may be added to the operation when approved by the Engineer. See TCP(3) series standards.
13. The shadow vehicle may be omitted on conventional roadways when a TMA or TA and arrow panel is mounted to the herbicide vehicle. A separate shadow vehicle will be required on expressways and Freeways.

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Traffic Operations Division Standard

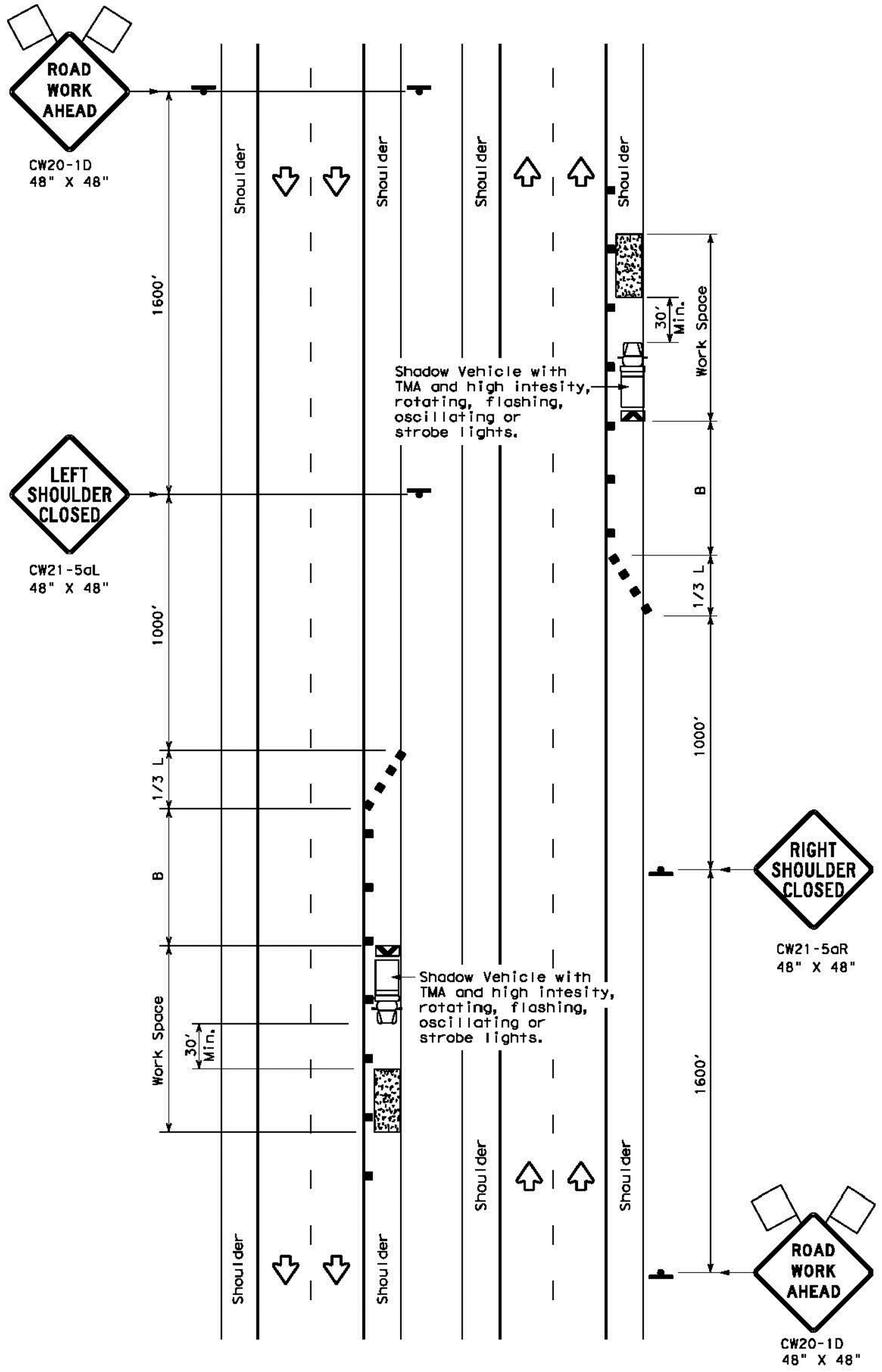
TRAFFIC CONTROL PLAN MOBILE OPERATIONS HERBICIDE TRUCK OPERATIONS

TCP(3-5)-18

FILE: tcp3-5.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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	18	ROCKWALL		27

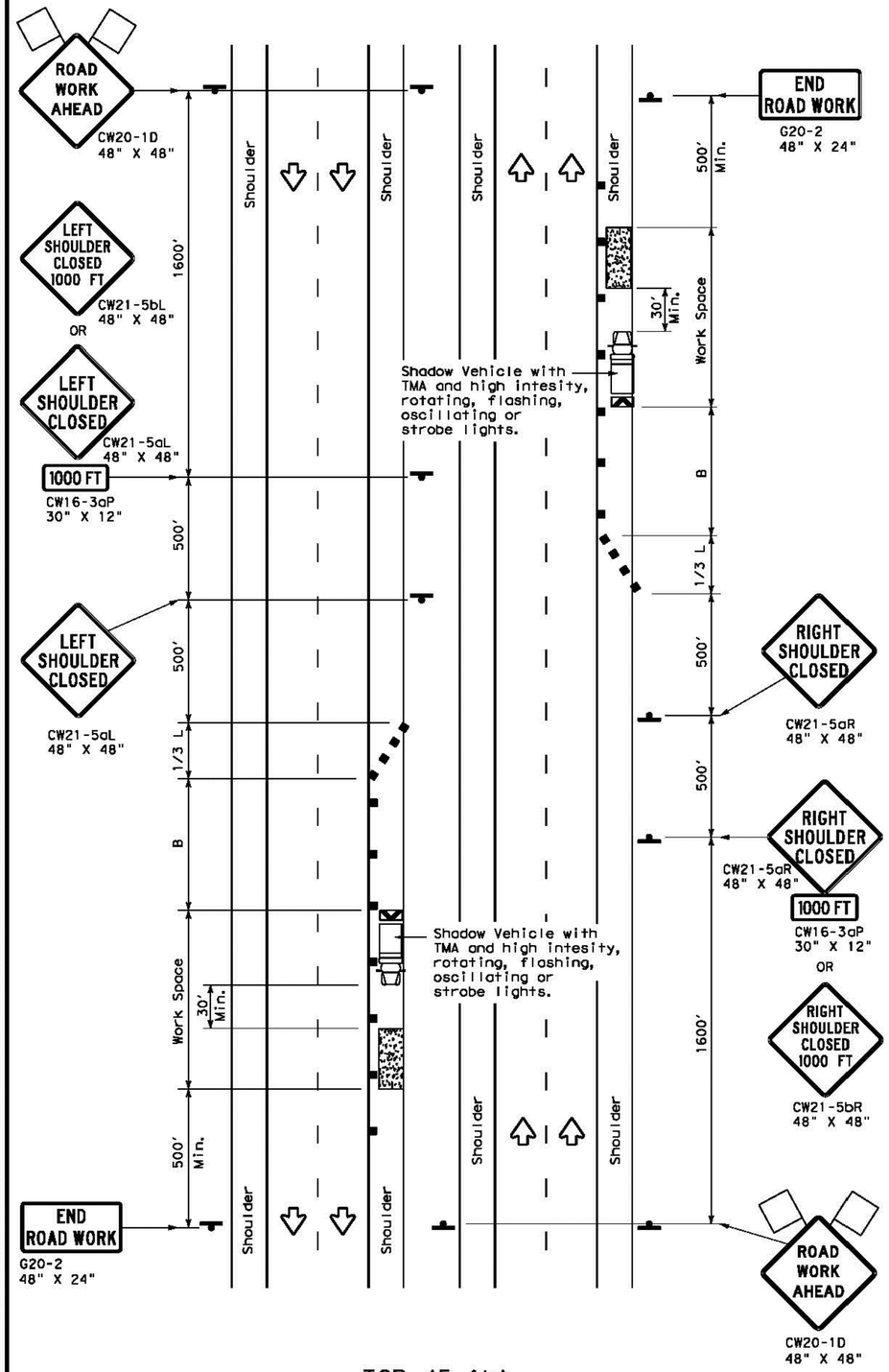
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TCP (5-1a)

WORK AREA ON SHOULDER



TCP (5-1b)

WORK AREA ON SHOULDER

LEGEND

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Suggested Longitudinal Buffer Space "B"
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60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

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

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	TCP(5-1a)	TCP(5-1b)	TCP(5-1b)	

GENERAL NOTES

1. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30' to 100' in advance of the area of crew exposure without adversely effecting the performance or quality of the work. Type 3 barricades or drums may be substituted when workers on foot are no longer present when approved by the Engineer.
2. 28" tall or taller one-piece cones will be allowed only for Short Duration or Short Term stationary operations when workers are present to maintain the devices upright and in proper location. Intermediate Term stationary work areas should use Drums, Vertical Panels or 42" tall two-piece cones.

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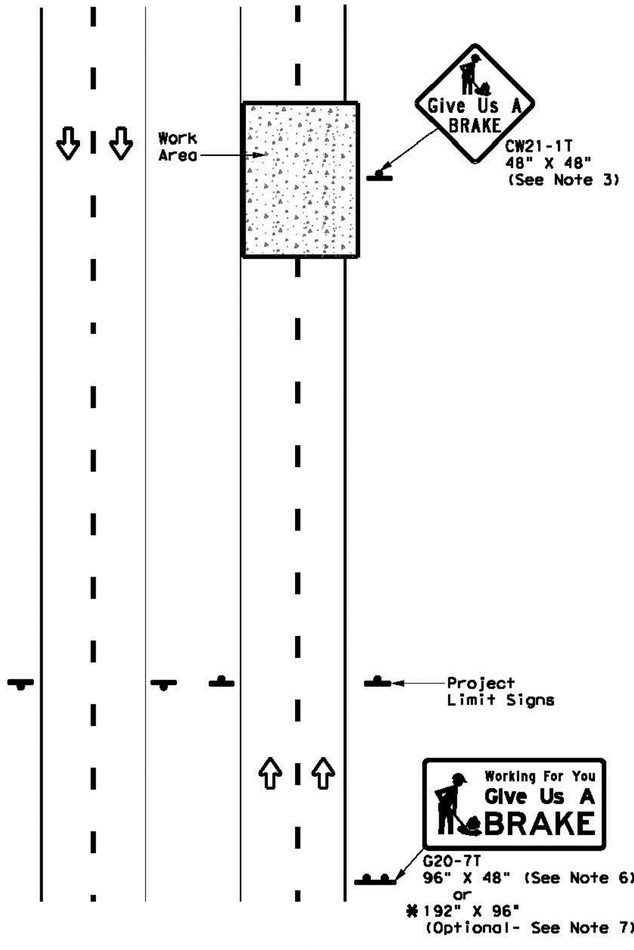
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN SHOULDER WORK FOR FREEWAYS / EXPRESSWAYS

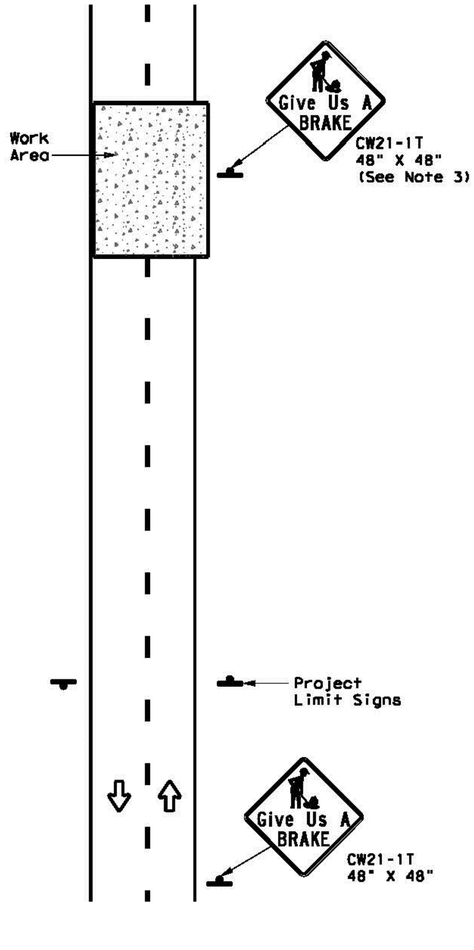
TCP(5-1)-18

FILE: tcp5-1-18.dgn	DN:	CK:	DW:	CK:
©TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-18	1014	03	063	FM 740
	DIST	COUNTY		SHEET NO.
	18	ROCKWALL		28

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DIVIDED HIGHWAY



UNDIVIDED HIGHWAY

SIGNS ARE SHOWN FOR ONE DIRECTION OF TRAVEL

* When the optional larger WORKING FOR YOU GIVE US A BRAKE (G20-7T) 192" x 96" sign is required, the locations shall be noted elsewhere in the plans.

DATE:
FILE:

SUMMARY OF LARGE SIGNS

BACKGROUND COLOR	SIGN DESIGNATION	SIGN	SIGN DIMENSIONS	REFLECTIVE SHEETING	SQ FT	GALVANIZED STRUCTURAL STEEL			DRILLED SHAFT 24" DIA. (LF)
						Size	(LF) ①	(LF) ②	
Orange	G20-7T	Working For You Give Us A BRAKE	96" X 48"	Type B_{FL} or C_{FL}	32	▲	▲	▲	▲
Orange	G20-7T	Working For You Give Us A BRAKE	192" X 96"	Type B_{FL} or C_{FL}	128	W8x18	16	17	12

▲ See Note 6 Below

LEGEND	
	Sign
	Large Sign
	Traffic Flow

DEPARTMENTAL MATERIAL SPECIFICATIONS	
PLYWOOD SIGN BLANKS	DMS-7100
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

COLOR	USAGE	SHEETING MATERIAL
ORANGE	BACKGROUND	TYPE B_{FL} OR TYPE C_{FL}
BLACK	LEGEND & BORDERS	NON-REFLECTIVE ACRYLIC FILM

GENERAL NOTES

1. See BC and SMD sheets for additional sign support details.
2. Sign locations shall be approved by the Engineer.
3. For projects more than two miles in length, Give Us a BRAKE signs should be repeated halfway through the project. The Give Us a Brake (CW21-1T) may be used for this purpose.
4. Work zone speed limits are sometimes used in conjunction with GIVE US A BRAKE signing. See BC(3) for location and spacing of construction speed zone signing when required.
5. Give Us a Brake (CW21-1T) signs and supports shall be considered subsidiary to Item 502, "Barricades, Signs and Traffic Handling."
6. The 96" X 48" Working For You Give Us A BRAKE (G20-7T) may use a 1/2" or 5/8" plywood substrate or 0.125" aluminum sheeting substrate and may be supported by two 4" x 6" wood posts with drilled holes for breakaway as per BC(5) and will be subsidiary to Item 502.
7. The Working For You Give Us A BRAKE (G20-7T) 192" X 96" sign shall be paid for under the following specification items:
   Item 636 - Aluminum Signs
   Item 647 - Large Roadside Sign Supports and Assemblies.
   Item 416 - Drilled Shaft Foundations
8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.

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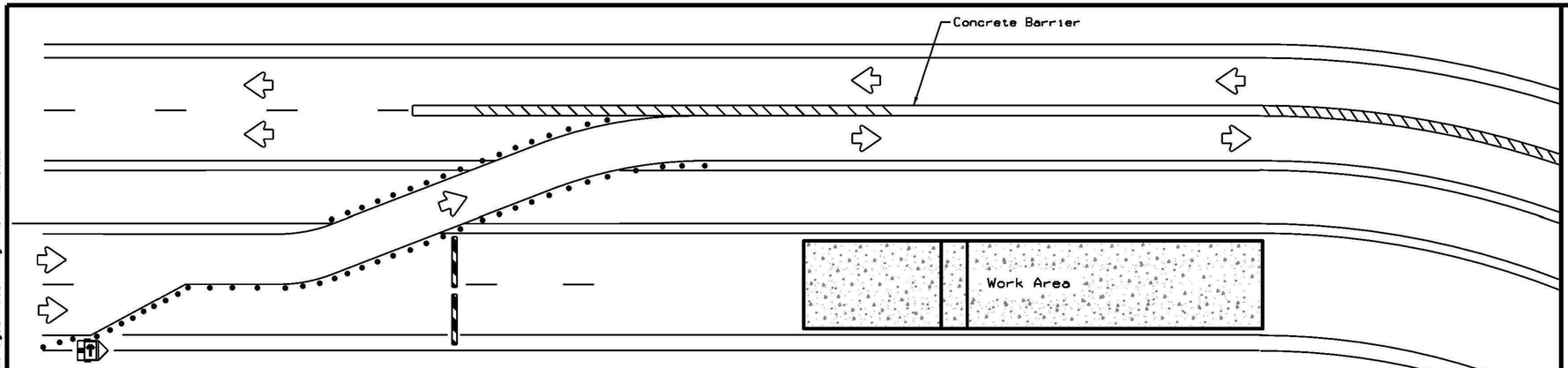
Traffic Operations Division Standard

WORK ZONE "GIVE US A BRAKE" SIGNS

WZ(BRK)-13

FILE: wzbrk-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT August 1995	CONT	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
6-96 5-98 7-13	DIST	COUNTY		SHEET NO.
8-96 3-03	18	ROCKWALL		29

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NOTES:

1. Length of Safety Glare screen will be specified elsewhere in the plans.
2. The cumulative nominal length of the modular safety glare screen units shall equal the length of the individual sections of temporary concrete traffic barrier on which they are installed so the joint between barrier sections will not be spanned by any one safety glare screen unit.
3. Screen Panel/blades will be designed such that reflective sheeting conforming with Departmental Material Specification DMS-8300, Sign Face Materials, Type B or C Yellow, minimum size of 2 inches by 12 inches can be attached to the edge of the panel/blade. The sheeting shall be attached to one glare screen panel/blade per section of concrete barrier not to exceed a spacing of 30 feet. Barrier reflectors are not necessary when panel/blades are installed with reflective sheeting as described.
4. Payment for these devices will be under statewide Special Specification "Modular Glare Screens for Headlight Barrier."
5. This detail is only intended to show types of locations where Glare Screens would be appropriate. Required signing and other devices shall be as shown elsewhere in the plans.

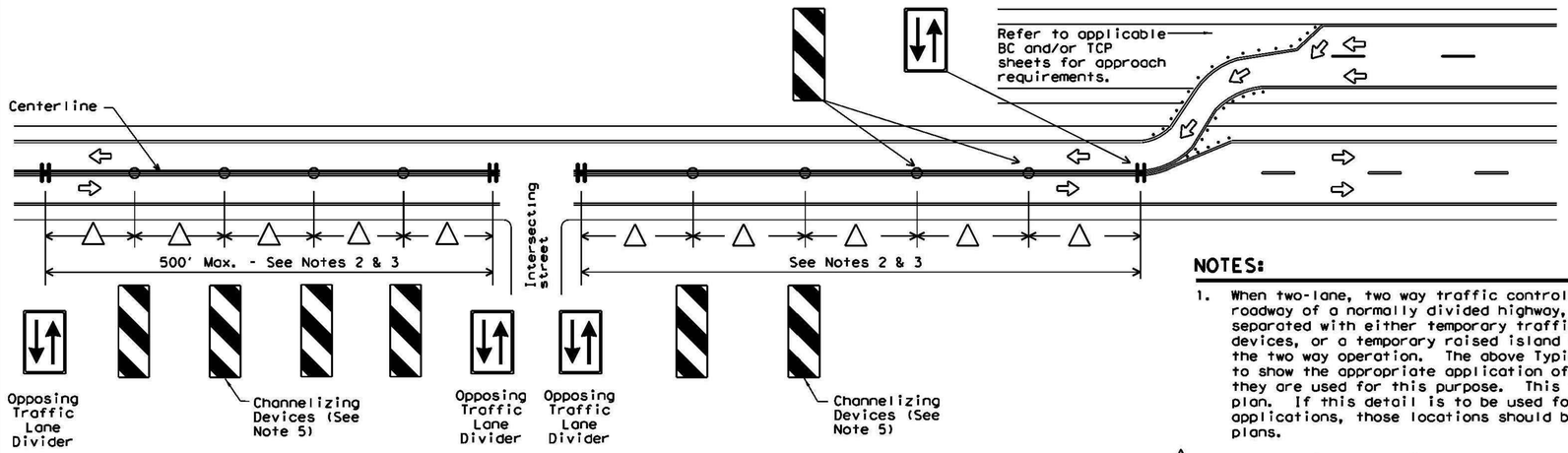
BARRIER DELINEATION WITH MODULAR GLARE SCREENS

LEGEND	
	Type 3 Barricade
• • •	Channelizing Devices
	Trailer Mounted Flashing Arrow Board
	Sign
\\\\	Safety glare screen

DEPARTMENTAL MATERIAL SPECIFICATIONS	
SIGN FACE MATERIALS	DMS-8300
DELINEATORS AND OBJECT MARKERS	DMS-8600
MODULAR GLARE SCREENS FOR HEADLIGHT BARRIER	DMS-8610

Only pre-qualified products shall be used. A copy of the Compliant Work Zone Traffic Control Devices List" CWZTCD)describes pre-qualified products and their sources and may be found at the following web address:

http://www.txdot.gov/business/resources/producer-list.html



VERTICAL PANELS & OPPOSING TRAFFIC LANE DIVIDERS (OTLD) SEPARATING TWO-WAY TRAFFIC ON NORMALLY DIVIDED HIGHWAYS

NOTES:

1. When two-lane, two way traffic control must be maintained on one roadway of a normally divided highway, opposing traffic shall be separated with either temporary traffic barriers, channelizing devices, or a temporary raised island throughout the length of the two way operation. The above Typical Application is intended to show the appropriate application of channelizing devices when they are used for this purpose. This is not a traffic control plan. If this detail is to be used for other types of roads or applications, those locations should be stated elsewhere in the plans.

△2. Space devices according to the Tangent Spacing shown on the Device Spacing table on BC(9) but not exceeding 100'.

3. Every fifth device should be an OTLD except when spaced closer to accommodate an intersection. An OTLD should be the first device on each side of intersecting streets or roads.
4. Locations where surface mount bases with adhesives or self-righting devices will be required in order to maintain them in their proper position should be noted elsewhere in the plans.
5. Channelizing devices are to be vertical panels, 42" cones or tubular markers that are at least 36" tall. Tubular markers used to separate traffic should have a rubber base weighing at least 30 pounds. Tubular markers that are 42" tall or more shall have four bands of reflective material as detailed for 42" cones on BC(10). Tubular markers less than 42" but at least 36" tall shall have three bands of 3" wide white reflective material spaced 2" apart. Reflective material shall meet DMS-8300, Type A.

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN TYPICAL DETAILS

WZ(TD)-17

FILE: wztd-17.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS 4-98 2-17 3-03 7-13	1014	03	063	FM 740
	DIST	COUNTY		SHEET NO.
	18	ROCKWALL		30

DATE:
FILE:

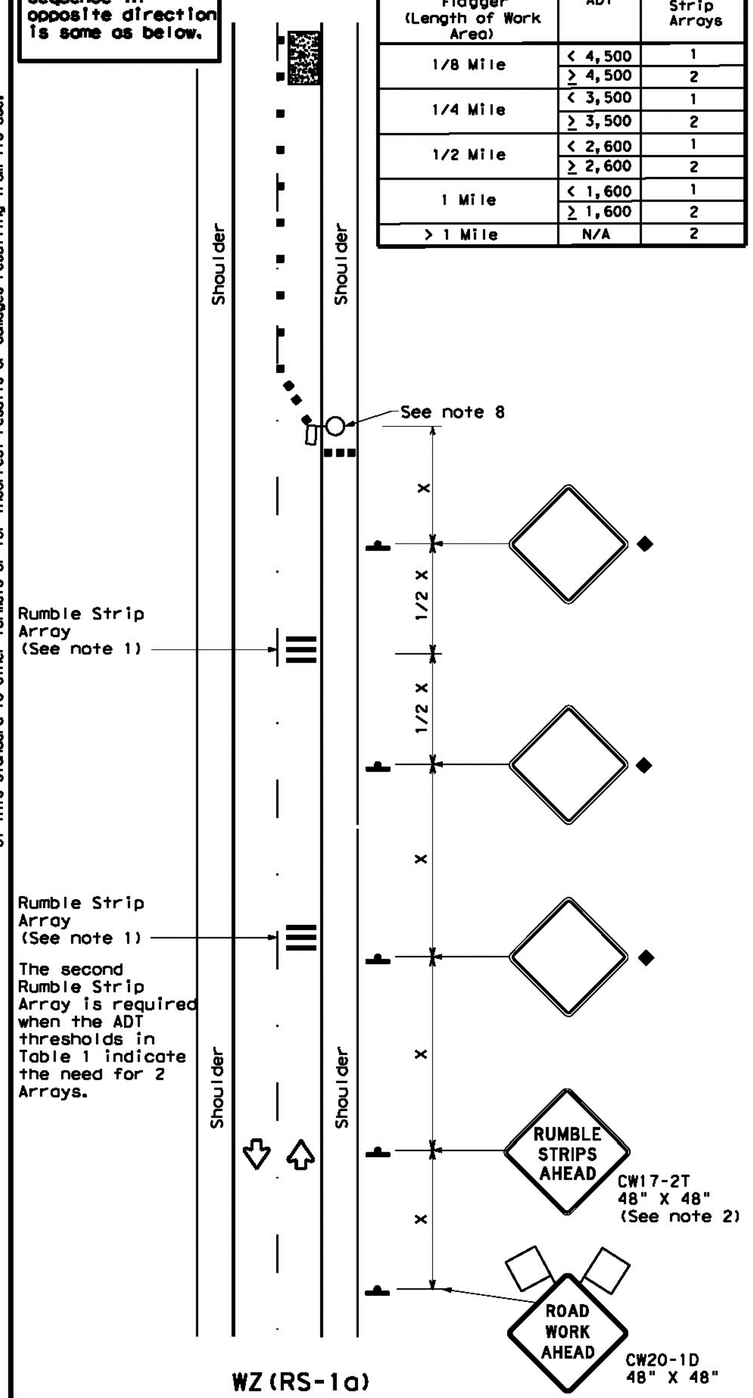
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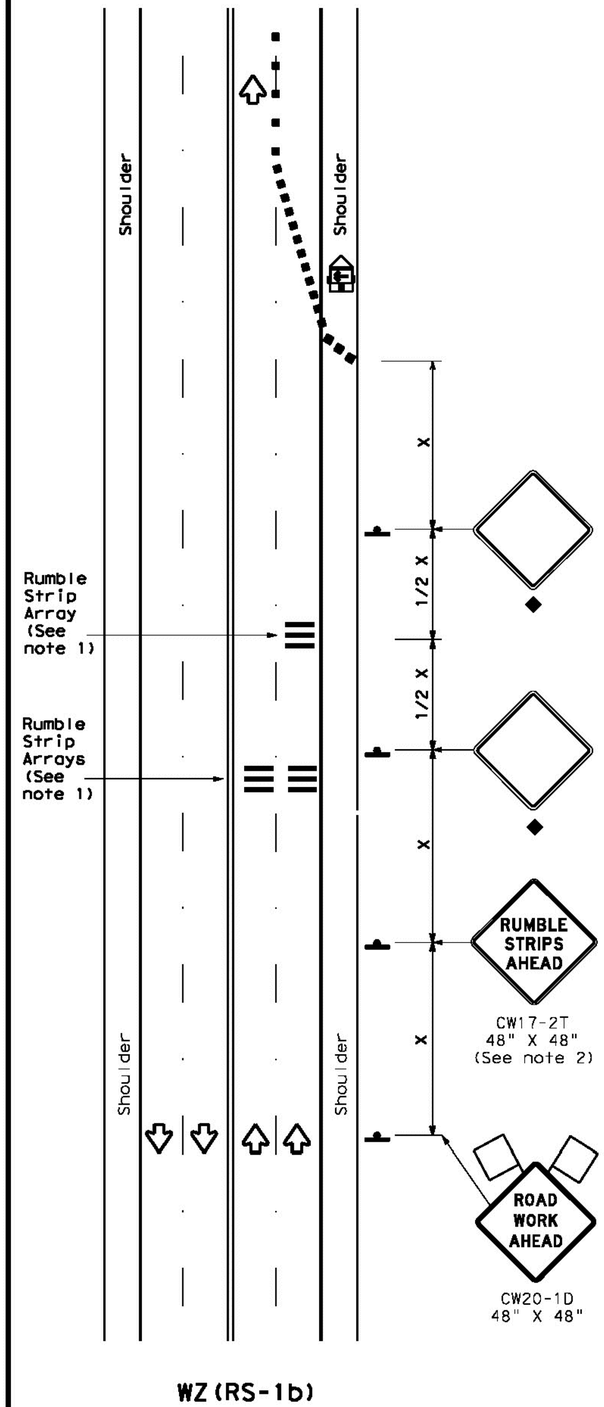
Warning sign and rumble strip sequence in opposite direction is same as below.

TABLE 1		
Flagger to Flagger (Length of Work Area)	ADT	# of Rumble Strip Arrays
1/8 Mile	< 4,500	1
	≥ 4,500	2
1/4 Mile	< 3,500	1
	≥ 3,500	2
1/2 Mile	< 2,600	1
	≥ 2,600	2
1 Mile	< 1,600	1
	≥ 1,600	2
> 1 Mile	N/A	2



WZ(RS-1a)

RUMBLE STRIPS ON ONE-LANE TWO-WAY APPLICATION



WZ(RS-1b)

RUMBLE STRIPS FOR LANE CLOSURE ON CONVENTIONAL ROADWAY

GENERAL NOTES

1. Each Rumble Strip Array should consist of three rumble strips spaced center to center at the spacing shown in Table 2, placed transverse across the lane at locations shown.
2. The CW17-2T "RUMBLE STRIPS AHEAD" sign should be located after the CW20-1D "ROAD WORK AHEAD sign and spaced as shown. If traffic is observed to be queuing, or is expected to queue beyond the Rumble Strips, the CW17-2T sign and the first Rumble Strip Array may be located upstream of the CW20-1D sign as necessary to provide needed warning.
3. Temporary Rumble Strips will be considered subsidiary to Item 502, and shall be a product listed on the Compliant Work Zone Traffic Control Devices.
4. Remove Temporary Rumble Strips before removing the advanced warning signs.
5. Temporary Rumble Strips should not be used on horizontal curves, loose gravel, soft or bleeding asphalt, heavily rutted pavements or unpaved surfaces.
6. Temporary Rumble Strips shall be installed and maintained as per manufacturer's recommendations.
7. This standard sheet shall be used in conjunction with other appropriate TCP standard, TMUTCD typical application or project specific detail for the project.
8. The one-lane two-way application may utilize a flagger, an Automated Flagger Assistance Device (AFAD) or a Portable Traffic Signal (PTS).
9. Replace defective Temporary Rumble Strips as directed by the Engineer.
10. Temporary Rumble Strips may be used on freeways or expressways based on engineering judgment and written direction from the Engineer.

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

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

* Conventional Roads Only

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

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

◆ Signs are for illustrative purposes only. Signs required may vary depending on the TCP, TMUTCD Typical Application, or project specific details for the project.

* For posted speeds in excess of 65 MPH, it is recommended that spacing is increased as speed limits increase. Increasing space between rumble strips will improve effectiveness.

TABLE 2	
Speed	Approximate distance between strips in an array
≤ 40 MPH	10'
> 40 MPH & ≤ 55 MPH	15'
= 60 MPH	20'
≥ 65 MPH	* 35'+

Texas Department of Transportation

Traffic Safety Division Standard

TEMPORARY RUMBLE STRIPS

WZ(RS)-22

FILE: wzrs22.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2012	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-14 1-22 4-16	1014	03	063	FM 740
	DIST	COUNTY		SHEET NO.
	18	ROCKWALL		31

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USER ID

SURFACE PREPARATION ITEM 160* FURN & PLACE TOPSOIL / ITEM 161* COMPOST MANUF TOPSOIL (4") SY

SURFACE PREPARATION

Prepare planting area surface BEFORE placing Topsoil, Compost, Fertilizer, Seed and/or Sod.
Once project area has been completed to final lines, grade and compaction, remove objectionable materials from planting area surface and scarify existing surface to a depth of 4-inches, unless otherwise specified or directed.

Refer to Items 160 and 161 of TxDOT 2024 Standard Specifications* for specifications, dimensions, volumes, and measurements that have been modified or not shown in plans. Materials and construction shall meet all specifications.

TOPSOIL NOTES:
1. When Topsoil is specified under Item 160, use suitable material salvaged from the project ROW in accordance with Item 160 specifications, and/or secure additional good material from approved sources.
2. Topsoil shall include only the top 6-inches of its native surface, and be easily cultivated, fertile, erosion-resistant and free of objectionable materials. Topsoil obtained from sites outside of the ROW must come from approved sources and have a pH between 5.5 and 8.5 su.
3. Place Topsoil on pre-scarified surface, spread to a uniform loose cover at thickness specified, and shape per plans.
4. Water and roll the finished surface with a light roller or other suitable equipment per Item 160.3; do not over-compact.

COMPOST NOTES:
1. When Compost Manufactured Topsoil (4") is specified under Item 161, use compost meeting all requirements of Item 161.2 and Table 1. Provide quality control (QC) documentation and obtain Engineer approval prior to compost delivery.
2. Contractor shall provide tickets/invoices that document material type, quantity and placement for all compost delivered.
3. Additional topsoil may be required to be imported to achieve the compost/topsoil mix ratio. Topsoil must meet Item 160 specifications.

APPLICATION OF COMPOST MANUFACTURED TOPSOIL (4")

AFTER Surface Preparation, uniformly spread a 1-inch layer of compost on-grade with 3-inches topsoil over pre-scarified planting area.
(25% compost and 75% topsoil = 1" compost and 3" topsoil.)
Then mix compost and topsoil together by cultivating the compost into the topsoil (by till or disk) to a 4-inch (4") depth.
Roll the finished surface with a light corrugated drum; do not over-compact.

FERTILIZER ITEM 166* FERTILIZER TON

SOIL ANALYSIS FOR FERTILIZER APPLICATION RATE

Unless otherwise stated in the plans, Contractor shall perform at least one soil analysis on each project before fertilization, and submit results to Engineer with recommended fertilizer rates based on soil analysis. Engineer may direct sample location(s).
Soil analysis may be waived if both compost and sod are used on entire project.

FERTILIZER NOTES:
1. Refer to Item 166 of TxDOT 2024 Standard Specifications* for specifications, dimensions, volumes, and measurements that have been modified or not shown in plans. Materials and construction shall meet all specifications.
2. Apply fertilizer BEFORE seeding, or AFTER placing sod.
3. Use fertilizer containing nitrogen (N), phosphoric acid (P) and potash (K) nutrients, unless otherwise specified. At least 50% of the Nitrogen component shall be a slow-release sulfur-coated urea as described in Item 166.3. Do not apply more than 60-pounds (lbs) Nitrogen per acre without Engineer concurrence.
4. Deliver fertilizer in bags, clearly labeled to show contents, unless otherwise specified or approved prior to delivery. When non-bagged, loose fertilizer is approved, provide documentation for each load of material delivered, to validate authenticity of the material.
5. Apply fertilizer uniformly, as a dry, granular material, essentially dust-free, and do not mix with water for application as a slurry.
6. When both temporary and permanent seeding are specified for the same area, apply half of the required fertilizer before the temporary seeding operation and the other half before the permanent seeding operation.

SODDING FOR EROSION CONTROL ITEM 162* BLOCK SODDING SY

BLOCK OR ROLL SOD	COMMON NAME	BOT-NIC-L N-ME
	Common Bermuda Grass	Cynodon dactylon

SODDING NOTES:
1. Refer to Item 162 of TxDOT 2024 Standard Specifications* for specifications, dimensions, volumes, and measurements that have been modified or not shown in plans. Materials and construction shall meet all specifications.
2. Place sod between the average date of the last freeze in the Spring and 6 weeks before the average date of the first freeze in the Fall, per the Texas Almanac for the project area.
3. Place sod only AFTER soil surface preparation is complete as detailed in this sheet. Dry soil may require pre-watering.
4. Place all sod (blocks or rolls) within 24-hours of delivery to the site, and keep moist from the time it is dug up until it is planted. Sod with dried roots will not be accepted.
5. Place sod with joints alternating on each row to prevent all joints from lining up, and place blocks firmly against adjacent blocks. Roll, tamp and trim sod per Item 162.3.
6. Place fertilizer promptly AFTER sodding operation is complete in each area.
7. Water sod immediately following placement, and continue Vegetative Watering per Item 168.

VEGETATIVE WATERING FOR ESTABLISHING SEED AND SOD ITEM 168* VEGETATIVE WATERING TGL

WATERING SCHEDULE

SEASON (Usual Months)	RATE	TIME SCHEDULE	TOTAL W-TER ESTIMATE
SPRING & FALL (March, -pril, May, and October)	7,000 gallons/acre per working day	Vegetative watering for seed shall begin on the day after rainfall described below and continue for 60-consecutive working days. Vegetative watering for sod shall begin on the day sod is placed and continue for a minimum of 15-consecutive working days.	420,000 gallons/acre (60 working days)
SUMMER (June through September)	12,000 gallons/acre per working day		720,000 gallons/acre (60 working days)
WINTER (November through February)	1,000 gallons/acre per working day	Vegetative watering for seed and/or sod shall begin on the day after placement and continue for 15-consecutive working days	15,000 gallons/acre (15 working days)

Notes: Watering rate and frequency may be adjusted, with the approval of the Engineer, to meet site conditions (especially with sod).
For informational purposes only: 1,000-gallons equals 1 TGL

VEGETATIVE WATERING NOTES:
1. Refer to Item 168 of TxDOT 2024 Standard Specifications* for specifications, dimensions, volumes, and measurements that have been modified or not shown in plans. Materials and construction shall meet all specifications.
2. Use clean water, free of industrial waste and other substances harmful to vegetation growth, per Item 168.2.
3. For seeding, use Vegetative Watering to keep the seed bed moist during germination; not to provide initial watering. [After drill seeding, postpone watering operations until site receives at least 1/2-inch of natural rainfall in a single day. Also delay watering operations for warm season grasses until soil temperature exceeds 70 degrees F.]
4. For sod, water immediately.
5. All water distribution equipment shall be furnished and operated to provide water at a uniform and controllable rate. Use a metering device on all watering equipment.
6. Evenly distribute water over entire area designated for seeding and/or sodding, using even spray patterns that do not disturb seed bed and/or dislodge seed from seed bed.
7. Do not water between the hours of 12:00 p.m. and 6:00 p.m. when daytime temperatures exceed 95 degrees F.
8. After initial establishment period, continue intermittent watering of newly established seed or sod at a rate of approximately 1-inch water/week, during summer months until end of contract.
9. If 1/4-inch or more of rainfall occurs on site on any given working day, no vegetative watering will be needed on that working day. (Note: 1/4-inch of rain equals 7,000 gallons of water per acre.)
10. Should the Contractor fail to apply the specified amount of water within the time allowed, any seed or sod in poor condition shall be replaced, fertilized, and watered at Contractor's expense.

SEEDING FOR EROSION CONTROL ITEM 164* DRILL SEED SY

PERMANENT SEEDING MIXES (ADD FLOWER SEEDING MIX TO PERMANENT SEED, ALL SOILS) PERMANENT SEED PLANTING SEASON: FEB. 1 TO MAY 15

			Pure Live Seed Rate **
RURAL CLAY SOILS (PERM_RURAL_CLAY)	Sideoats Grama (Haskell)	15%	1.5 lbs PLS per acre
	Hooded Windmillgrass (Burnet)	15%	0.3 lbs PLS per acre
	White Tridens (Guadalupe)	15%	0.3 lbs PLS per acre
	Little Bluestem (OK Select)	15%	1.05 lbs PLS per acre
	Buffalograss (Texoka)***	10%	1.5 lbs PLS per acre
	Silver Bluestem (Santiago)	05%	0.2 lbs PLS per acre
	Green Sprangletop (Van Horn)	05%	0.2 lbs PLS per acre
	Shortspike Windmillgrass (Welder)	05%	0.1 lbs PLS per acre
	Canada Wildrye (Lavaca)	10%	2.0 lbs PLS per acre
	Sand Dropseed (Taylor)	05%	0.1 lbs PLS per acre
URBAN CLAY SOILS (PERM_URBAN_CLAY)	Green Sprangletop		0.3 lbs PLS per acre
	Sideoats Grama (El Reno)		3.6 lbs PLS per acre
	Buffalograss (Texoka)***		1.6 lbs PLS per acre
	Bermudagrass		2.4 lbs PLS per acre

			Pure Live Seed Rate **
RURAL SANDY SOILS (PERM_RURAL_SAND)	Shortspike Windmillgrass (Welder)	10%	0.2 lbs PLS per acre
	Hairy Grama (Chaparral)	15%	0.6 lbs PLS per acre
	Sand Dropseed (Taylor)	10%	0.2 lbs PLS per acre
	Little Bluestem (OK Select)	15%	1.05 lbs PLS per acre
	Sideoats Grama (Haskell)	10%	1.0 lbs PLS per acre
	Green Sprangletop (Van Horn)	10%	0.4 lbs PLS per acre
	Hooded Windmillgrass (Burnet)	10%	0.2 lbs PLS per acre
	Sand Lovegrass (Mason)	10%	0.4 lbs PLS per acre
	Silver Bluestem (Santiago)	10%	0.4 lbs PLS per acre
URBAN SANDY SOILS (PERM_URBAN_SAND)	Green Sprangletop		0.3 lbs PLS per acre
	Buffalograss (Texoka)***		1.6 lbs PLS per acre
	Bermudagrass		3.6 lbs PLS per acre
	Sand Dropseed (Borden Co.)		0.4 lbs PLS per acre

SEEDING NOTES:
1. When seeding is specified under Item 164, refer to TxDOT 2024 Standard Specifications* for specifications, dimensions, volumes, and measurements that have been modified or not shown. Materials and construction shall meet all specifications.
2. Conduct seeding upon completion of each applicable construction stage (dependent upon planting season requirements), without compensation for additional move-ins.
3. Place seed AFTER preparing planting area surface. Refer to Surface Preparation detail this sheet, as well as Topsoil Item 160 and Compost Manufactured Topsoil Item 161 when specified. Apply fertilizer per Item 166 BEFORE seeding, per specifications and this sheet, to help drill the fertilizer into the soil.
4. When temporary grasses are well-established and more than 2-inches tall, mow planting area before seeding permanent grasses; mowing for this purpose will be subsidiary. When vegetation is not already well-established, scarify planting area to a depth as described in Item 164.3, before temporary seeding and before permanent seeding.
5. Seed material must be appropriate to the location, soil type and season. Use the seed mix species and pure live seed rates designated in Tables 1-5 of the TxDOT 2024 Standard Specifications* for Item 164, unless otherwise specified.
6. All seed shall meet labeling, delivery, analysis, and testing requirements described in Item 164.2.1. Deliver seed in labeled, unopened bags or containers to Engineer prior to planting.
7. Uniformly plant seed over the designated planting area, along the contour of slopes, and drill seed to a depth as described in Item 164.3.5.
8. Hydroseeding per Item 164.2.5.2 and 164.3.4 may be allowed, when specified or Engineer concurs. For hydroseeding, increase PLS rate by 25% and avoid microplastics.
9. Implement and continue Vegetative Watering per the schedule, rate and volume specified under Item 168.

TEMPORARY SEEDING MIX DRILL SEED (TEMP_WARM_COOL) REV.1

		Pure Live Seed Rate **
WARM SEASON (Feb.1 to -ug.30)	Brownton Millet	20.0 lbs PLS per acre
COOL SEASON (Sept.1 to Jan.31)	Oats	30.0 lbs PLS per acre
	Wheat	30.0 lbs PLS per acre
	Little Barley	5.0 lbs PLS per acre
	Western Wheatgrass	5.0 lbs PLS per acre

FLOWER SEEDING MIX (INCLUDE WITH PERMANENT SEED, ALL SOILS)

Engelmann Daisy (Eldorado)	1.5 lbs PLS per acre
Awnless Bushsunflower (Plateau)	1.5 lbs PLS per acre
Partridge Pea	1.5 lbs PLS per acre
Illinois Bundleflower (Sabine)	1.5 lbs PLS per acre
Rio Grande Clammyweed (Zapata)	2.0 lbs PLS per acre

** Note: The amount of Pure Live Seed (PLS) in one-pound (1 lb) of bulk seed is based on three factors: % Purity, % Germination, and % Dormant. Use the following formula to calculate PLS in bulk seed: PLS = % Purity X (% Germination + % Dormant) Ensure that the specified amount of pure live seed is placed.
*** Note: When Buffalograss is specified, use seed that is treated with potassium nitrate to overcome dormancy.

ROADSIDE MOWING ITEM 730* AC

MOWING NOTES:
1. During project construction, once seed is established, use mowing to promote permanent grasses by mowing any remaining temporary grasses.
2. Also mow established turf and ROW grasses in designated areas of project limits as specified or directed by Engineer.
3. Remove litter and debris prior to mowing.
4. Do not mow on wet ground when soil rutting can occur.
5. Hand-trim around obstructions and stormwater control devices as needed.
6. Maintain paved surfaces free of tracked soils and clipped vegetation.

SEQUENCE OF WORK:

- SCARIFY SURFACE SOIL.
- PREPARE / PLACE TOPSOIL, OR
- PREPARE / PLACE COMPOST MANUFACTURED TOPSOIL.
- APPLY FERTILIZER AND THEN PLACE SEEDING, OR
- PLACE SOD AND THEN APPLY FERTILIZER.
- CONDUCT VEGETATIVE WATERING.
- CONDUCT ROADSIDE MOWING, AS DIRECTED.

TXDOT REFERENCE MATERIALS:

- "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES" 2024
- "A GUIDANCE TO ROADSIDE VEGETATION ESTABLISHMENT" 2004
- ONLINE TRAINING COURSE: MNT415 REVEGETATION DURING CONSTRUCTION
- DALLAS DISTRICT "VEGETATION ESTABLISHMENT GUIDELINES"

Texas Department of Transportation
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VEGETATION ESTABLISHMENT SHEET

(DALLAS DISTRICT)

TEMPLATE REVISION DATE: 11/19/25

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
RAD	6	(See Title Sheet)		FM 740
GRAPHICS XXX	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK XXX	TEXAS	DALLAS	ROCKWALL	32
CHECK XXX	CONTROL	SECTION	JOB	
	1014	03	063	

DATE

STORMWATER POLLUTION PREVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with the TPDES Construction General Permit TXR150000 (CGP). The Texas Department of Transportation (TxDOT) ensures that project specifications include adequate best management practices (BMPs) for this project.

For all projects with soil disturbing activity and for projects that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans and the projects environmental permits, issues, and commitments (EPICs). A copy of the CGP is included in Attachment 2.12 of the SWP3 binder.

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
CSJ: 101403063 (FM 740)

1.2 PROJECT LIMITS:
From: SH 205

To: IH 30 FRONTAGE ROAD

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 32.9174° (N) ,(Long) 96.4609° (W)

END: (Lat) 32.9003° (N) ,(Long) 96.4679° (W)

1.4 TOTAL PROJECT AREA (Acres): 11.47 ACRE

1.5 TOTAL AREA TO BE DISTURBED (Acres): 1.00 ACRE

1.6 NATURE OF CONSTRUCTION ACTIVITY:
THE SCOPE OF WORK CONSISTS OF THE CONSTRUCTION OF LANDSCAPING ACTIVITIES TO INCLUDE LANDSCAPING AND SCENIC ENHANCEMENTS INCLUDING TREES, SHRUBS, GROUND COVERS, AND IRRIGATION ON FM 740 FROM IH 30 TO SH 205.

1.7 MAJOR SOIL TYPES:

Soil Type	Description
Altoga Silty Clay, 3 to 12 percent slopes	Sta 208 to Sta 170, Sta 139 to Sta 160, very deep, well drained, moderately permeable soils, eroded.
Lewisville Silty Clay, 3 to 8 percent slopes	Sta 170 to Sta 160, very deep, well drained, moderately permeable soils, eroded.

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

☐ PSLs determined during preconstruction meeting
☒ PSLs determined during construction
☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.5.)

☒ Mobilization
☒ Install sediment and erosion controls
☒ Blade existing topsoil into windrows, prep ROW, clear and grub
☒ Remove existing pavement
☒ Grading operations, excavation, and embankment
☐ Excavate and prepare subgrade for proposed pavement widening
☐ Remove existing culverts, safety end treatments (SETs)
☐ Remove existing metal beam guard fence (MBGF), bridge rail
☐ Install proposed pavement per plans
☐ Install culverts, culvert extensions, SETs
☐ Install mow strip, MBGF, bridge rail
☒ Place flex base
☐ Rework slopes, grade ditches
☐ Blade windrowed material back across slopes
☒ Revegetation of unpaved areas
☒ Achieve site stabilization and remove sediment and erosion control measures
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

☒ Sediment laden stormwater from stormwater conveyance over disturbed area
☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
☒ Solvents, paints, adhesives, etc. from various construction activities
☒ Transported soils from offsite vehicle tracking
☒ Construction debris and waste from various construction activities
☒ Contaminated water from excavation or dewatering pump-out water
☒ Sanitary waste from onsite restroom facilities
☒ Trash from various construction activities/receptacles
☐ Long-term stockpiles of material and waste
☒ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities.
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
STREAM NO. 5	LAKE RAY HUBBARD (0820; NO WATER QUALITY IMPAIRMENTS)

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: CITY OF ROCKWALL

☒ Development of plans and specifications
☒ Submit Notice of Intent (NOI) to TCEQ (≥5 acres)
☒ Post Construction Site Notice
☒ Submit NOI/CSN to local MS4
☒ Perform SWP3 inspections
☒ Maintain SWP3 records and update to reflect daily operations
☒ Complete and submit Notice of Termination to TCEQ
☒ Maintain SWP3 records for 3 years
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

☒ Day To Day Operational Control
☒ Submit Notice of Intent (NOI) to TCEQ (≥5 acres)
☒ Post Construction Site Notice
☒ Submit NOI/CSN to local MS4
☒ Maintain schedule of major construction activities
☒ Install, maintain and modify BMPs
☒ Complete and submit Notice of Termination to TCEQ
☒ Maintain SWP3 records for 3 years
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.14 LOCAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) OPERATOR COORDINATION:

MS4 Entity

STORMWATER POLLUTION PREVENTION PLAN (SWP3)

© 2823 July 2023 Sheet 1 of 2

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	(SEE TITLE SHEET)		33A
STATE	STATE DIST.	COUNTY	
TEXAS	DALLAS	ROCKWALL	
CONT.	SECT.	JOB	HIGHWAY NO.
1014	03	063	FM 740

STORMWATER POLLUTION PREVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- ☒ ☐ Protection of Existing Vegetation
- ☒ ☒ Vegetated Buffer Zones
- ☐ ☐ Soil Retention Blankets
- ☐ ☒ Geotextiles
- ☐ ☒ Mulching/ Hydromulching
- ☐ ☒ Soil Surface Treatments
- ☐ ☐ Temporary Seeding
- ☐ ☒ Permanent Planting, Sodding or Seeding
- ☒ ☐ Biodegradable Erosion Control Logs
- ☐ ☐ Rock Filter Dams/ Rock Check Dams
- ☐ ☐ Vertical Tracking
- ☐ ☐ Interceptor Swale
- ☐ ☐ Riprap
- ☐ ☐ Diversion Dike
- ☐ ☐ Temporary Pipe Slope Drain
- ☐ ☐ Embankment for Erosion Control
- ☐ ☐ Paved Flumes
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- ☒ ☐ Biodegradable Erosion Control Logs
- ☒ ☐ Dewatering Controls
- ☒ ☐ Inlet Protection
- ☒ ☐ Rock Filter Dams/ Rock Check Dams
- ☐ ☐ Sandbag Berms
- ☒ ☐ Sediment Control Fence
- ☐ ☐ Stabilized Construction Exit
- ☐ ☐ Floating Turbidity Barrier
- ☒ ☒ Vegetated Buffer Zones
- ☐ ☐ Vegetated Filter Strips
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

Sediment control BMPs requiring design capacity calculations (See SWP3 Attachment 1.3.):

T / P

- ☐ ☐ Sediment Trap
  - ☐ Calculated volume runoff from 2-year, 24-hour storm for each acre of disturbed area
  - ☐ 3,600 cubic feet of storage per acre drained
- ☐ ☐ Sedimentation Basin
  - ☐ Not required (<10 acres disturbed)
  - ☐ Required (>10 acres) and implemented.
    - ☐ Calculated volume runoff from 2-year, 24-hour storm for each acre of disturbed area
    - ☐ 3,600 cubic feet of storage per acre drained
  - ☐ Required (>10 acres), but not feasible due to:
    - ☐ Available area/Site geometry
    - ☐ Site slope/Drainage patterns
    - ☐ Site soils/Geotechnical factors
    - ☐ Public safety
    - ☐ Other: _____

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To
GROUNDCOVER	139+00	208+00
SHRUBS	139+00	208+00
TREES	139+00	208+00

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- ☒ Excess dirt/mud on road removed daily
- ☒ Haul roads dampened for dust control
- ☒ Loaded haul trucks to be covered with tarpaulin
- ☐ Stabilized construction exit
- ☐ Daily street sweeping
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

2.5 POLLUTION PREVENTION MEASURES:

- ☒ Chemical Management
- ☒ Concrete and Materials Waste Management
- ☒ Debris and Trash Management
- ☒ Dust Control
- ☒ Sanitary Facilities
- ☒ Other: Avoid storing portable sanitary units, concrete washouts or chemicals within 50 feet upgradient of a receiving water or drainage conveyance without adequate pollution controls
- ☒ Other: Capture saw-cutting debris and concrete slurry for proper disposal.
- ☒ Other: Maintain paved surfaces free of project sedimentation and debris.
  * Maintain project area and adjacent properties free from nuisance dust.
- ☐ Other: _____
- ☐ Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To
VEGETATIVE BUFFER NEXT TO STREAM NO.5	160+00	170+00

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- ☒ Fire hydrant flushings
- ☒ Irrigation drainage
- ☒ Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- ☒ Potable water sources
- ☒ Springs
- ☒ Uncontaminated groundwater
- ☒ Water used to wash vehicles or control dust
- ☒ Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.5 of this SWP3.

When dewatering activities are present, a daily inspection will be conducted once per day during those activities and documented in accordance with CGP and TxDOT requirements.

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.5 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3)

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July 2023 Sheet 2 of 2

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	(SEE TITLE SHEET)		33B
STATE	STATE DIST.	COUNTY	
TEXAS	DALLAS	ROCKWALL	
CONT.	SECT.	JOB	HIGHWAY NO.
1014	03	063	FM 740

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

1. ☐ It is not anticipated that any erosion, sedimentation, or environmental control devices will be needed on this project. The Contractor must still implement appropriate practices to prevent pollution from construction activities from reaching waters of the state. If it becomes necessary to implement control devices, payment for that work must be in accordance with Item 506 Article 4.4, "Change in the Work".

2. ☒ The project will disturb less than 1 acre of soil and has EPICs that require the implementation of erosion, sedimentation, or environmental control devices. The SWP3 summary sheet and associated plan information has been developed and included in the plans. Additional documentation must be maintained during construction in accordance with Department policy.

3. ☐ The project will disturb 1 acres or more of soil, and therefore requires the implementation of erosion, sedimentation, or environmental control devices. The SWP3 summary sheet and associated plan information has been developed and included in the plans. Additional documentation must be maintained during construction in accordance with Department policy and Texas Commission on Environmental Quality Construction General Permit (TXR150000) requirements.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

1. ☒ No Permit Required

2. ☐ USACE Permit required for filling, dredging, excavating, or other work in any water bodies, rivers, creeks, streams, wetlands, or wet areas. The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

   ☐ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)

   ☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)

   ☐ Other Nationwide Permit Required: NWP*

   ☐ Individual Standard Permit Required

The SWP3 describes the BMPs planned to control erosion, sedimentation, and post-project TSS.

The following lists the impacted water, its stationing, planned disturbed acreage, and additional notes:

1. N/A

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

☐ Additional Required Actions:

1. N/A

IV. VEGETATION RESOURCES

The Contractor must preserve native vegetation to the extent practical. Follow vegetative buffers defined in the SWP3 for work adjacent to water bodies. Contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.

☐ Additional Required Actions:

1. N/A

V. PROTECTED SPECIES AND MIGRATORY BIRDS

The work must not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediate area and contact the Engineer immediately. Do not disturb or handle bats found under bridges and other structures. Do not harm or kill wildlife that enters the project area, including rattlesnakes. Implement measures to avoid infesting water bodies with zebra mussels, including inspecting equipment prior to placing in water and Clean, Drain, Dry practices.

If any listed species are observed, cease work in the immediate area, do not disturb the species or habitat, and contact the Engineer immediately.

☐ Additional Required Actions:

1. N/A

LIST OF ABBREVIATIONS

BMP: Best Management Practice
CGP: Construction General Permit
DSHS: Texas Department of State Health Services
FHWA: Federal Highway Administration
MBTA: Migratory Bird Treaty Act
MOA: Memorandum of Agreement
MOU: Memorandum of Understanding
MS4: Municipal Separate Stormwater Sewer System
NOI: Notice of Intent
NOT: Notice of Termination
NWP: Nationwide Permit
OHWM: Ordinaty High Water Mark
OSHA: Occupational Safety and Health Administration
PCN: Pre-Construction Notification
PSL: Project Specific Location
SDS: Safety Data Sheet
SPCC: Spill Prevention Control and Countermeasure
SW3P: Stormwater Pollution Prevention Plan
TCEQ: Texas Commission on Environmental Quality
TPDES: Texas Pollutant Discharge Elimination System
TPWD: Texas Parks and Wildlife Department
TxDOT: Texas Department of Transportation
TSS: Total Suspended Solids
USACE: U.S. Army Corps of Engineers
USFWS: U.S. Fish and Wildlife Service

Texas Department of Transportation

Design Division Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

EPIC

FILE: epic.dgn				
© TxDOT: October 2025	CONTROL	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
	DIST	COUNTY		SHEET NO.
	DAL	ROCKWALL		34A

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

For all projects the Contractor will comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Safety Data Sheets (SDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bareground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Pollutant housekeeping is also required in accordance with items listed in Section I of this EPIC sheet.

Maintain an adequate supply of on-site spill response materials, as indicated in the SDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Responsibility for Hazardous Materials: Except in cases where the generation of hazardous materials are introduced by the Contractor on any work done by the Contractor on State-owned or controlled sites, the Contractor is not the generator of hazardous materials indentified in the ROW as shown in the plans or as discovered during construction.

Contact the Engineer if any of the following are detected:

- Dead or distressed vegetation (not identified as normal)
- Trash piles, drums, canister, barrels, etc.
- Undesirable smells or odors
- Evidence of leaching or seepage of substances

The following list identifies non-asbestos/lead contamination or waste issues (location, contamination/waste type, if a soil and groundwater management plan applies, and any additional notes)

1. N/A

Demolition Activities - Does the project involve the demolition of any bridge class structure (not including buried culverts) for the purpose of replacement or permanent removal?

1. ☒ No - no further action required for demolition activities
2. ☐ Yes - the Contractor must provide the dates for demolition to the Engineer at least 30 days in advance, to allow the Department sufficient time to prepare and submit the pre-demolition notification to the DSHS at least 10 working days prior to the scheduled demolition.

Asbestos Concerns:

1. ☒ The project does not involve any bridge rehabilitation or replacements. No further action required for bridge asbestos concerns.
2. ☐ The project involves bridge rehabilitation or replacements. The asbestos inspection results are negative. No abatement action is required.
3. ☐ The project involves bridge rehabilitation or replacements. The asbestos inspection results are positive and asbestos abatement is required.
   The asbestos is located at the following (structure ID and station): N/A

For positive asbestos results, the following action will apply:

☐ The Department has retained a DSHS licensed asbestos abatement contractor under a separate contract to perform the abatement, provide DSHS abatement notification, and perform asbestos management activities. This work must occur prior to the Contractor commencing any work that might disturb asbestos.

☐ The Department has included the work to perform the abatement, provide DSHS abatement notification, and perform asbestos management activities in this contract under Item 6.10 and related Special Provision and Special Specification. The Contractor must perform abatement work prior to commencing any work that might disturb asbestos.

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES (cont.)

Lead Paint Concerns - The project involves demolition or repair work that could require cutting, torch cutting, welding, or abrasive blasting of painted steel.

1. ☒ No - no further action required for lead paint concerns
2. ☐ Yes - the lead paint inspection results are negative. No action required for lead paint concerns.
3. ☐ Yes - the lead paint inspection results are positive. Lead is at the following locations and concentrations:

Location (location/structure ID)	Concentration (ppm)

For positive lead results, the following action will apply:

☐ The work is under Item 446 (Field Cleaning & Painting Steel), management of hazardous materials is addressed in the specification and additional mitigation is not required.

☐ The lead concentration of the coating is known to be less than 90 ppm (Consumer Product Safety Commission threshold for paint to be designated as lead-containing), additional mitigation is not required.

☐ Mitigation for lead hazards is required in accordance with OSHA. The Contractor must provide mitigation as part of this contract. Mitigation may include stripping back of paint from steel at cut points or other areas where paint will be disturbed. The Contractor may select other OSHA-compliant controls or work practices instead of paint stripping to mitigate lead hazards. Manage painted steel in accordance with Standard Specification Item 6.10, Painted Steel Requirements.

☐ Mitigation for lead hazards is required in accordance with OSHA. The Department will provide lead paint removal. The Contractor must notify the Engineer of locations where paint-disturbing activities will occur at least 90 days prior to the work, to allow sufficient time for the Department to remove the paint. Manage painted steel in accordance with Standard Specification Item 6.10, Painted Steel Requirements.

VII. OTHER ENVIRONMENTAL ISSUES

(includes program areas such as Air, Noise, Edwards Aquifer Protection Program, etc.)

☐ Additional Required Actions:

1. N/A

LIST OF ABBREVIATIONS

BMP: Best Management Practice
CGP: Construction General Permit
DSHS: Texas Department of State Health Services
FHWA: Federal Highway Administration
MBTA: Migratory Bird Treaty Act
MOA: Memorandum of Agreement
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TCEQ: Texas Commission on Environmental Quality
TPDES: Texas Pollutant Discharge Elimination System
TPWD: Texas Parks and Wildlife Department
TxDOT: Texas Department of Transportation
TSS: Total Suspended Solids
USACE: U.S. Army Corps of Engineers
USFWS: U.S. Fish and Wildlife Service

Texas Department of Transportation

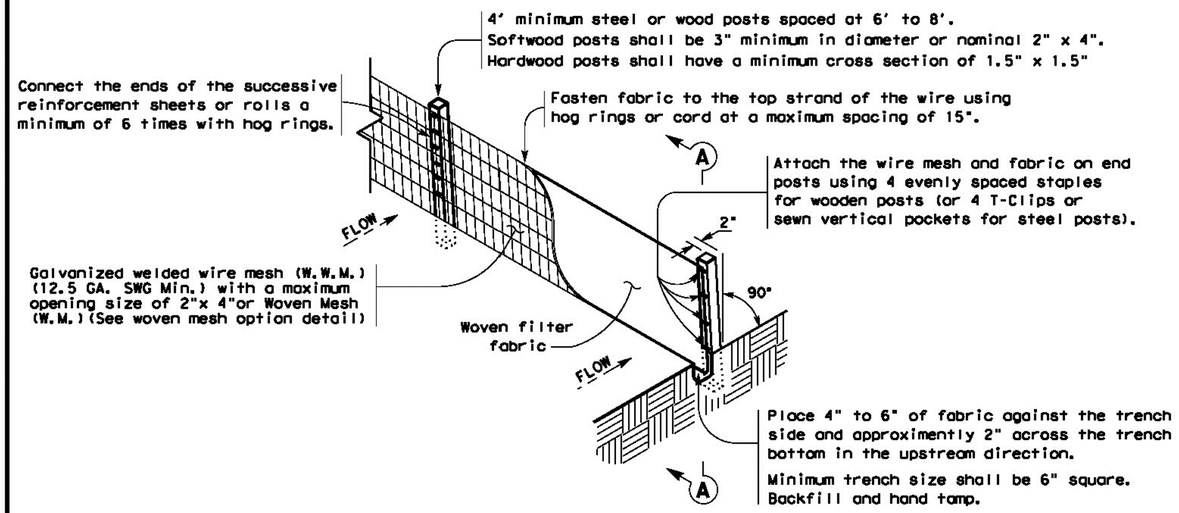
Design Division Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

EPIC

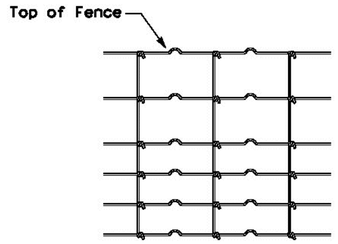
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© TxDOT: October 2025 REVISIONS	CONTROL	SECT	JOB	HIGHWAY
	1014	03	063	FM 740
	DIST	COUNTY		SHEET NO.
	DAL	ROCKWALL		34B

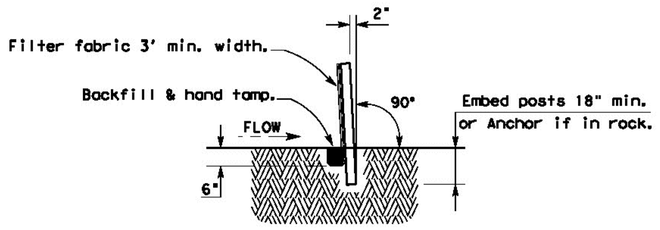
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TEMPORARY SEDIMENT CONTROL FENCE

SCF





SECTION A-A

HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA. SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

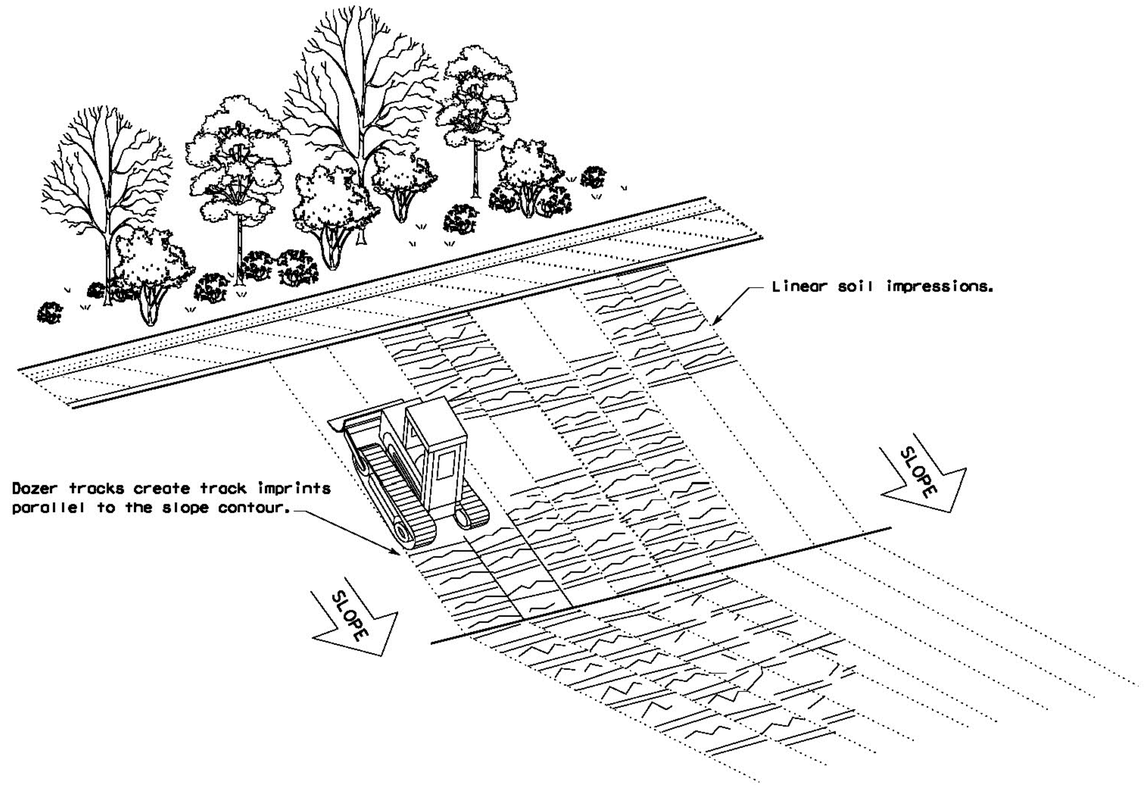
LEGEND

Sediment Control Fence

SCF

GENERAL NOTES

1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
2. Perform vertical tracking on slopes to temporarily stabilize soil.
3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
4. Do not exceed 12" between track impressions.
5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCE & VERTICAL TRACKING

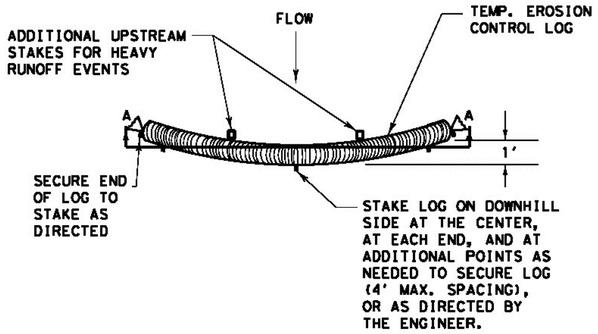
EC(1)-16

FILE: ec116	DN: TxDOT		CK: KM		DW: VP		DN/CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY		
REVISIONS	1014	03	063		FM 740		
	DIST	COUNTY			SHEET NO.		
	18	ROCKWALL			35		

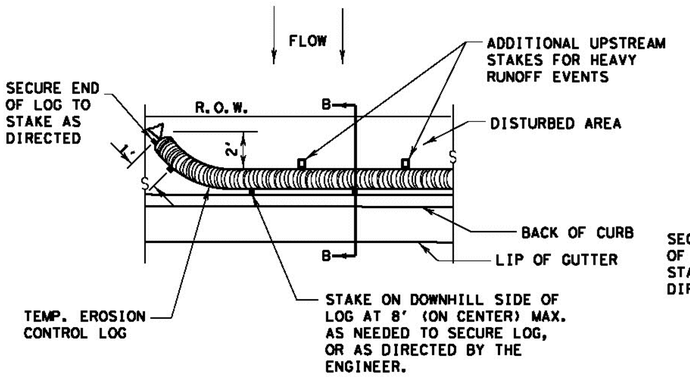
DATE
FILE

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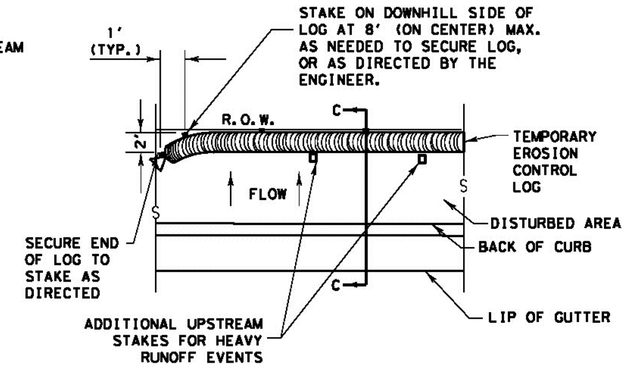
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FILE:



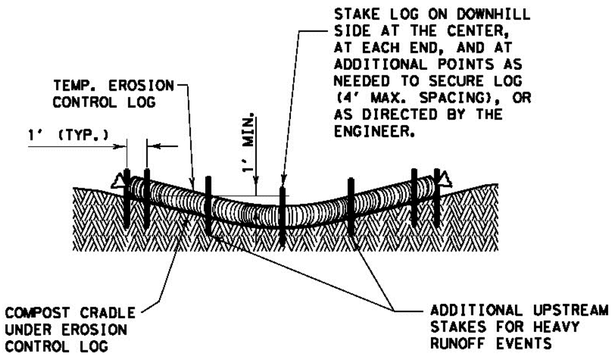
PLAN VIEW



PLAN VIEW



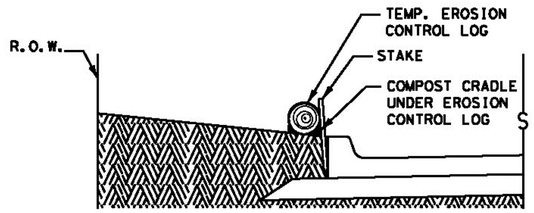
PLAN VIEW



SECTION A-A

EROSION CONTROL LOG DAM

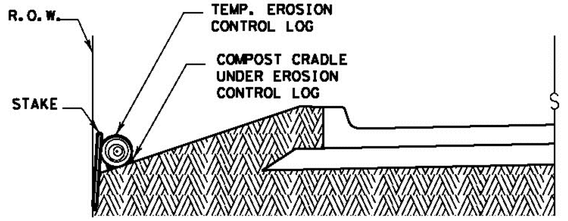
CL-D



SECTION B-B

EROSION CONTROL LOG AT BACK OF CURB

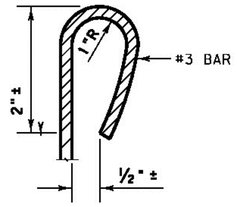
CL-BOC



SECTION C-C

EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY

CL-ROW



REBAR STAKE DETAIL

LEGEND

- CL-D — EROSION CONTROL LOG DAM
- CL-BOC — EROSION CONTROL LOG AT BACK OF CURB
- CL-ROW — EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY
- CL-SST — EROSION CONTROL LOGS ON SLOPES STAKE AND TRENCHING ANCHORING
- CL-SSL — EROSION CONTROL LOGS ON SLOPES STAKE AND LASHING ANCHORING
- CL-DI — EROSION CONTROL LOG AT DROP INLET
- CL-CI — EROSION CONTROL LOG AT CURB INLET
- CL-GI — EROSION CONTROL LOG AT CURB & GRATE INLET

GENERAL NOTES:

1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE ENGINEER.
2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
3. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
7. COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
8. SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT SIZE TO HOLD LOGS IN PLACE.
9. TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.

SEDIMENT BASIN & TRAP USAGE GUIDELINES

An erosion control log sediment trap may be used to filter sediment out of runoff draining from an unstabilized area.

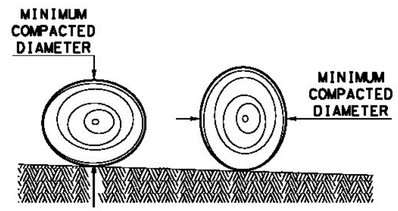
Log Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Control logs should be placed in the following locations:

1. Within drainage ditches spaced as needed or min. 500' on center
2. Immediately preceding ditch inlets or drain inlets
3. Just before the drainage enters a water course
4. Just before the drainage leaves the right of way
5. Just before the drainage leaves the construction limits where drainage flows away from the project.

The logs should be cleaned when the sediment has accumulated to a depth of 1/2 the log diameter.

Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.



DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

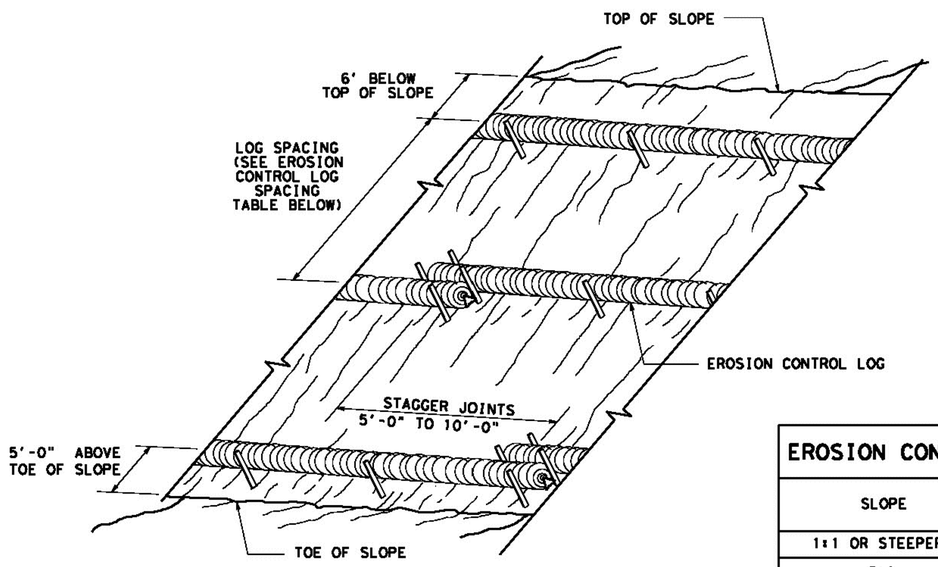
EROSION CONTROL LOG

EC(9)-16

FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
	DIST	COUNTY		SHEET NO.
	18	ROCKWALL		36A

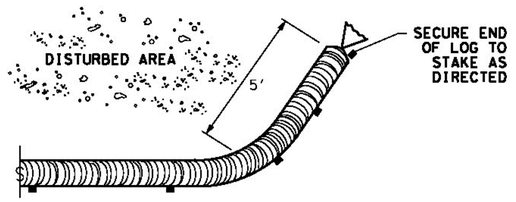
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FILE:



EROSION CONTROL LOGS ON SLOPES
STAKE AND TRENCHING ANCHORING

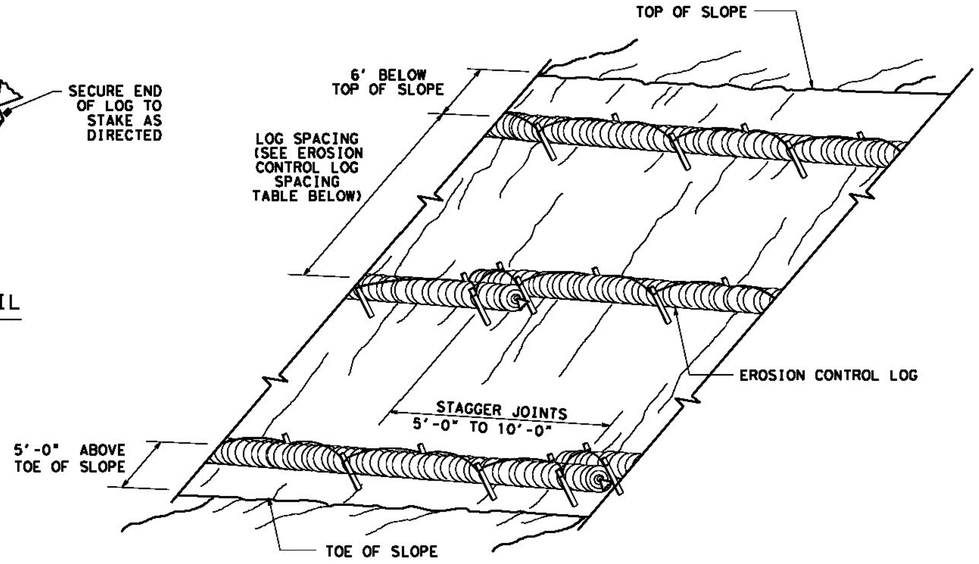
CL-SST



END SECTION RAP DETAIL

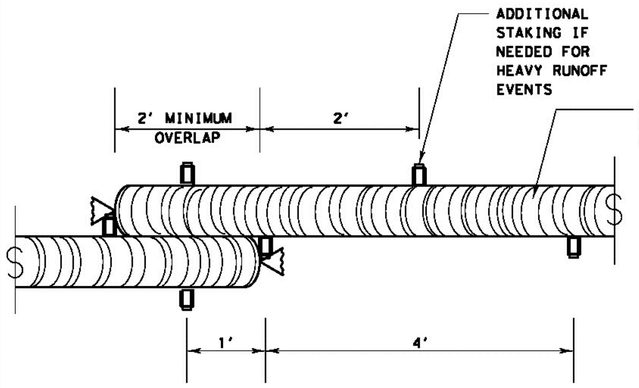
EROSION CONTROL LOG SPACING TABLE				
SLOPE	LOG DIAMETER			
	6"	8"	12"	18"
1:1 OR STEEPER	5'	10'	15'	20'
2:1	10'	20'	30'	40'
3:1	15'	30'	45'	60'
4:1 OR FLATTER	20'	40'	60'	80'

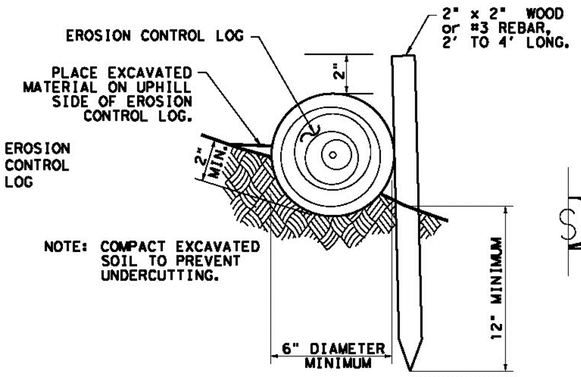
* ADJUSTMENTS CAN BE MADE FOR SOIL TYPE:
SOFT, LOAMY SOILS-ADJUST ROWS CLOSER TOGETHER;
HARD, ROCKY SOILS- ADJUST ROWS FARTHER APART



EROSION CONTROL LOGS ON SLOPES
STAKE AND LASHING ANCHORING

CL-SSL

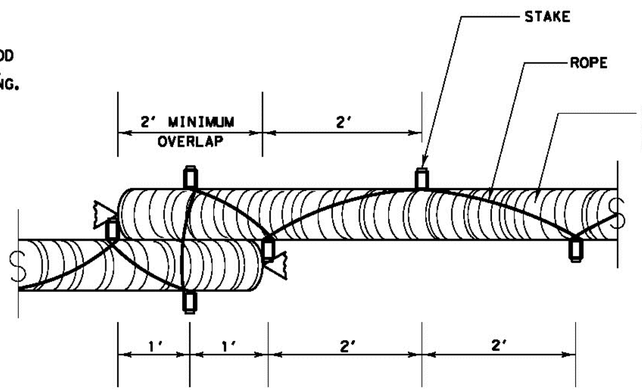


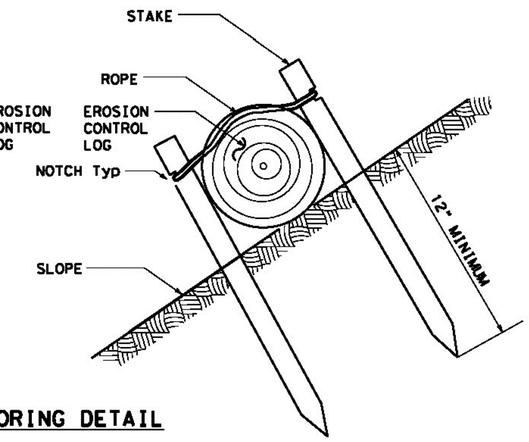


STAKE AND TRENCHING ANCHORING DETAIL

CL-SST

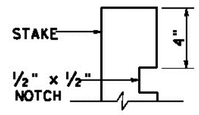
TRENCH DEPTH TABLE	
LOG DIAMETER	DEPTH
6"	2"
8"	3"
12"	4"
18"	5"





STAKE AND LASHING ANCHORING DETAIL

CL-SSL



STAKE NOTCH DETAIL

Texas Department of Transportation

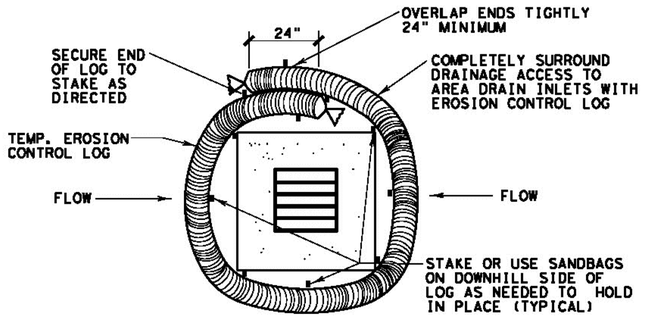
Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
EROSION CONTROL LOG
EC(9)-16

FILE: ec116	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	1014	03	063	FM 740
	DIST	COUNTY		SHEET NO.
	18	ROCKWALL		36B

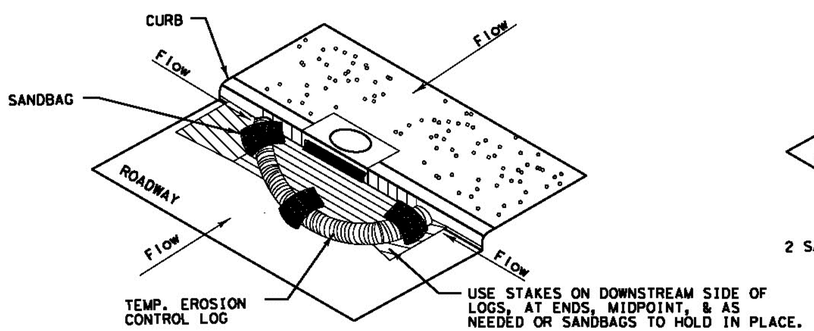
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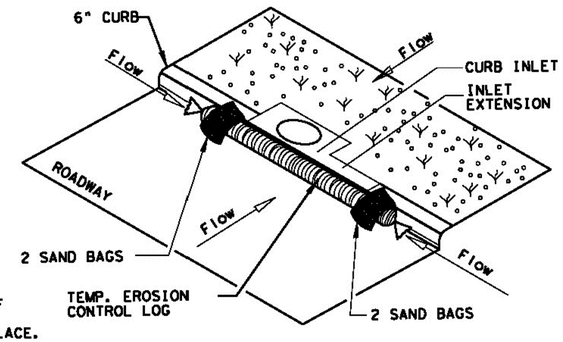
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

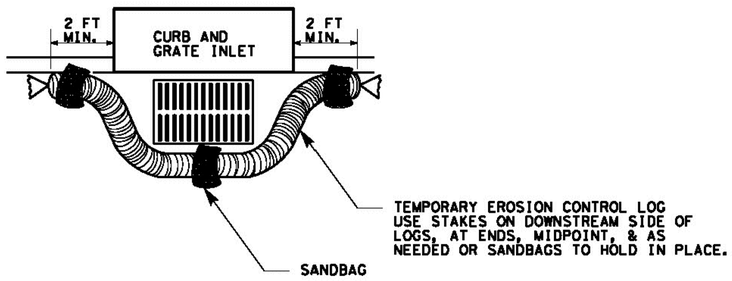
CL-CI



EROSION CONTROL LOG AT CURB INLET

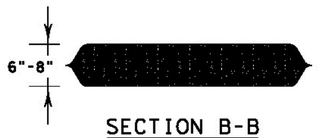
CL-CI

NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.

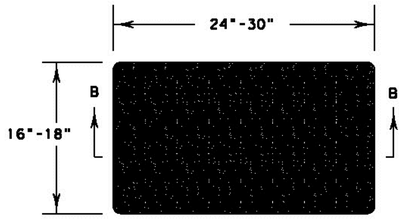


EROSION CONTROL LOG AT CURB & GRADE INLET

CL-GI



SECTION B-B



SANDBAG DETAIL

SHEET 3 OF 3

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

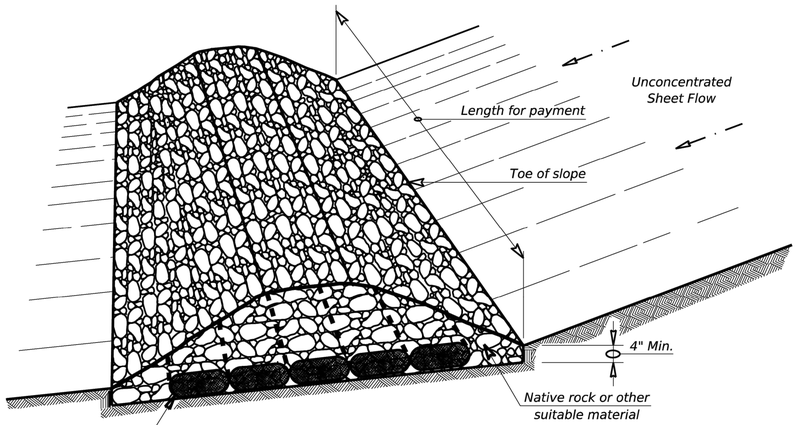
EROSION CONTROL LOG

EC(9)-16

FILE: ec916	DN: TxDOT		CK: KM	DW: LS/PT		CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY	
REVISIONS	1014	03	063		FM 740	
	DIST	COUNTY				SHEET NO.
	18	ROCKWALL				36C

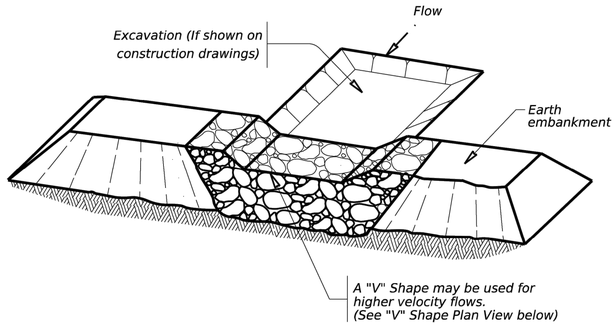
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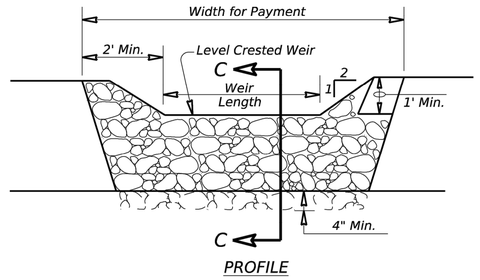
FILTER DAM AT TOE OF SLOPE

RFD1

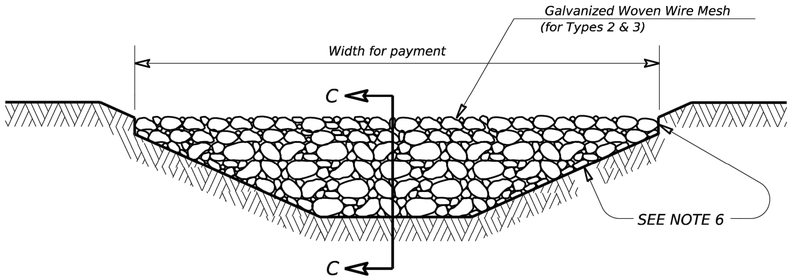


FILTER DAM AT SEDIMENT TRAP

RFD1 OR RFD2

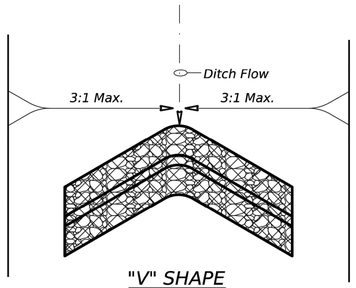


PROFILE

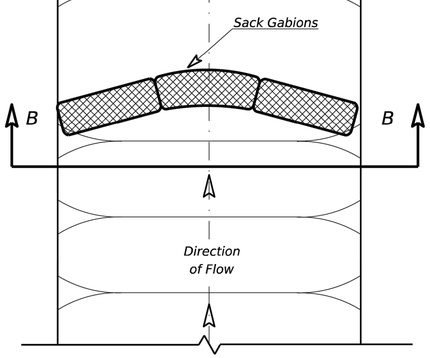


FILTER DAM AT CHANNEL SECTIONS

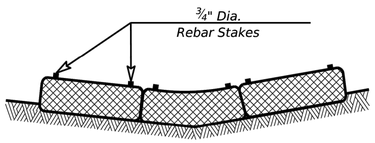
RFD1 OR RFD2 OR RFD3



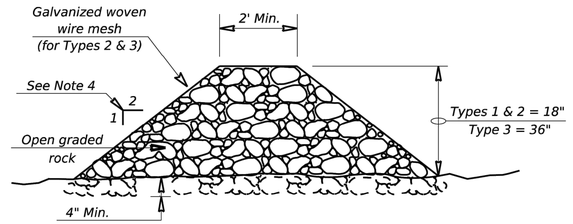
"V" SHAPE
PLAN VIEW



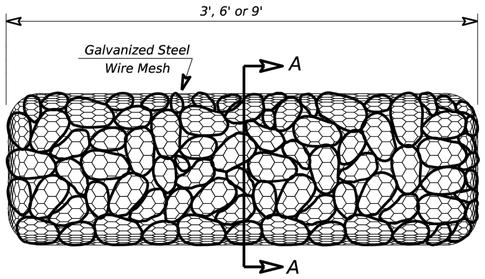
PLAN VIEW



SECTION B-B

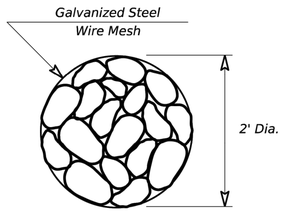


SECTION C-C



TYPE 4 (SACK GABIONS)

RFD4



SECTION A-A

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with ¾" dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of 2 ½" x 3 ¼"
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT^2 of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh) (3" to 6" aggregate): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approximently 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh) (3" to 6" aggregate): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh) (4" to 8" aggregate): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions) (3" to 6" aggregate): Type 4 May be used in ditches and smaller channels to form an erosion control dam.

Type 5: Provide rock filter dams as shown on plans.

PLAN SHEET LEGEND

Type 1 Rock Filter Dam	RFD1
Type 2 Rock Filter Dam	RFD2
Type 3 Rock Filter Dam	RFD3
Type 4 Rock Filter Dam	RFD4

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

ROCK FILTER DAMS

EC(2)-16

FILE: ec216	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS	
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY	
REVISIONS	1014	03	063	FM 740	
	DIST	COUNTY		SHEET NO.	
	18	ROCKWALL		37	

EXISTING CONCRETE NOSING TO REMAIN AND BE PROTECTED, TYP.

EXISTING INFILL ACCENT STAMPED CONCRETE TO REMAIN AND BE PROTECTED, TYP.

EXISTING CONCRETE ACCENT BAND TO REMAIN AND BE PROTECTED, TYP.

EXISTING LIGHT POLE TO REMAIN AND BE PROTECTED, TYP.

EXISTING STAMPED CONCRETE TO BE REMOVED, TYP. (311) S.F.

PROPOSED INLET PROTECTION, TYP. 36C

EXISTING SIDEWALK

MEDIAN-1

F.M.740 / RIDGE ROAD

R.O.W.

B.O.C.

B.O.C.

R.O.W.

EXISTING PLANTING AREA TO BE REMOVED, (3,096) S.F.

EXISTING ORNAMENTAL TREES TO BE REMOVED, (18)

EXISTING LIGHT POLE, TYP.

EXISTING STAMPED CONCRETE TO BE REMOVED, TYP. (857) S.F.

MATCHLINE SHEET 39

IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP

NORTH

Demolition Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

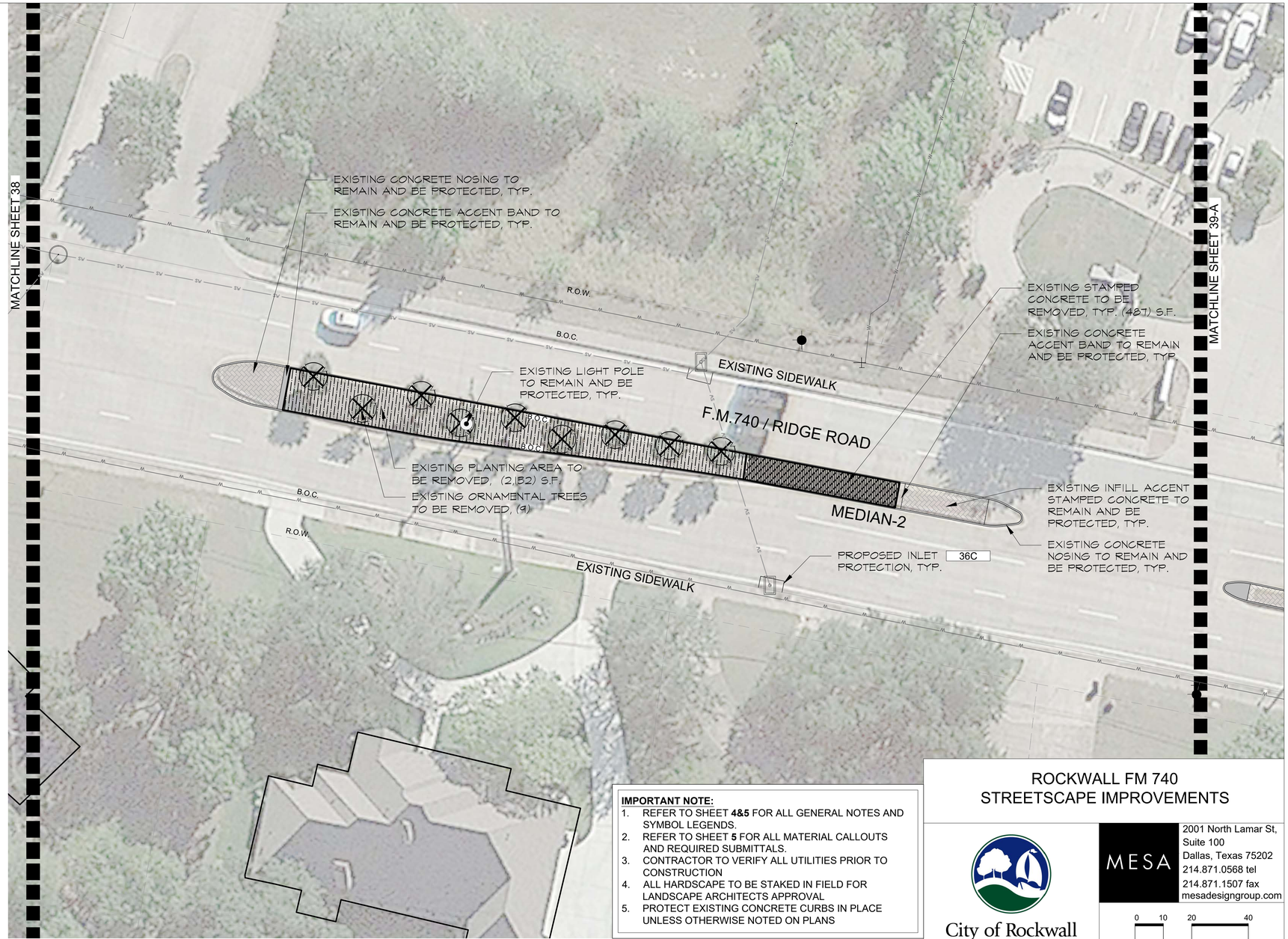
MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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MEDIAN - 1 DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	38
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
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4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

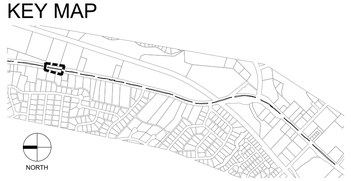
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Demolition Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS 2118

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

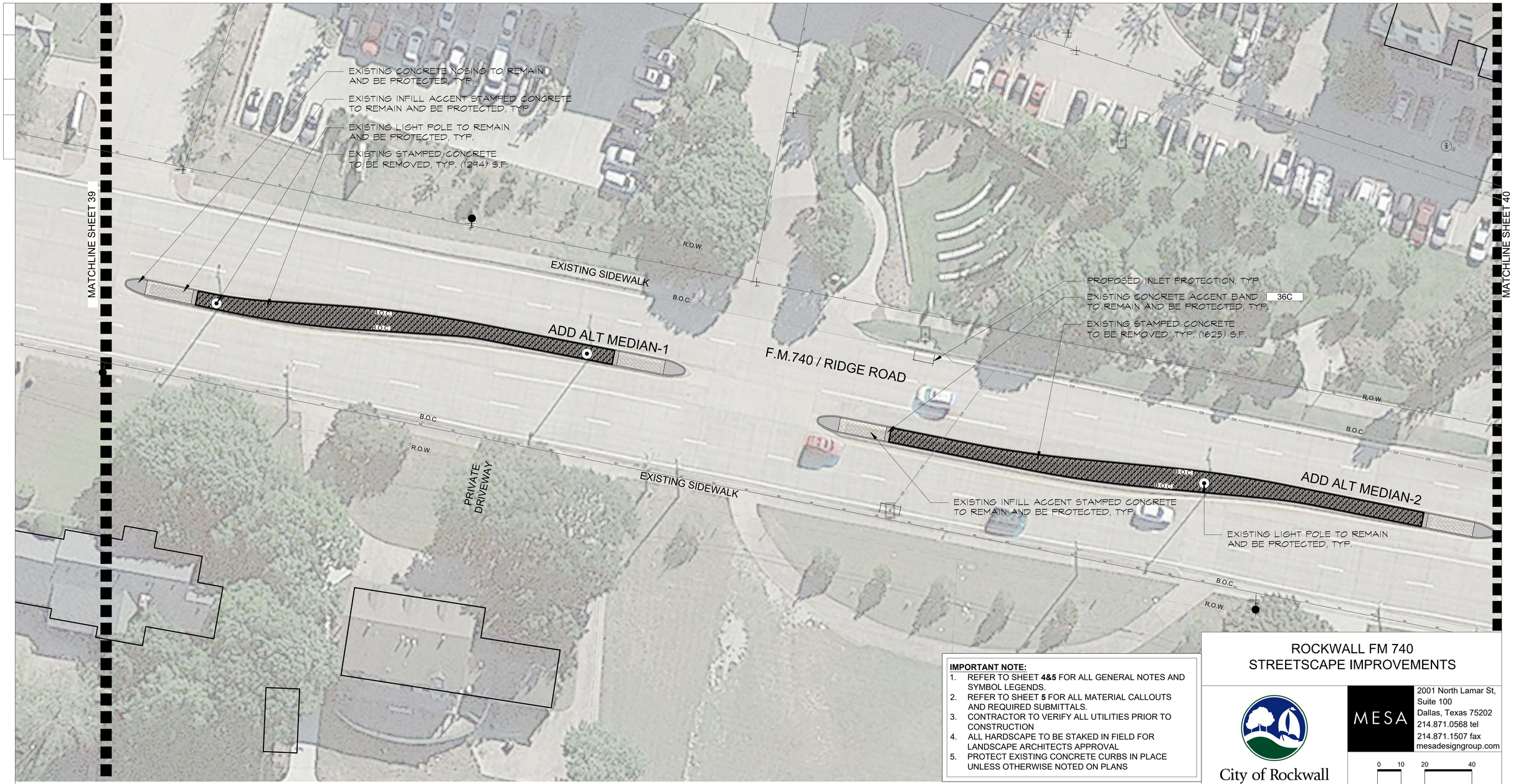
MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

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MEDIAN - 2
DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	39
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
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4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

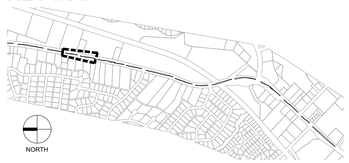
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

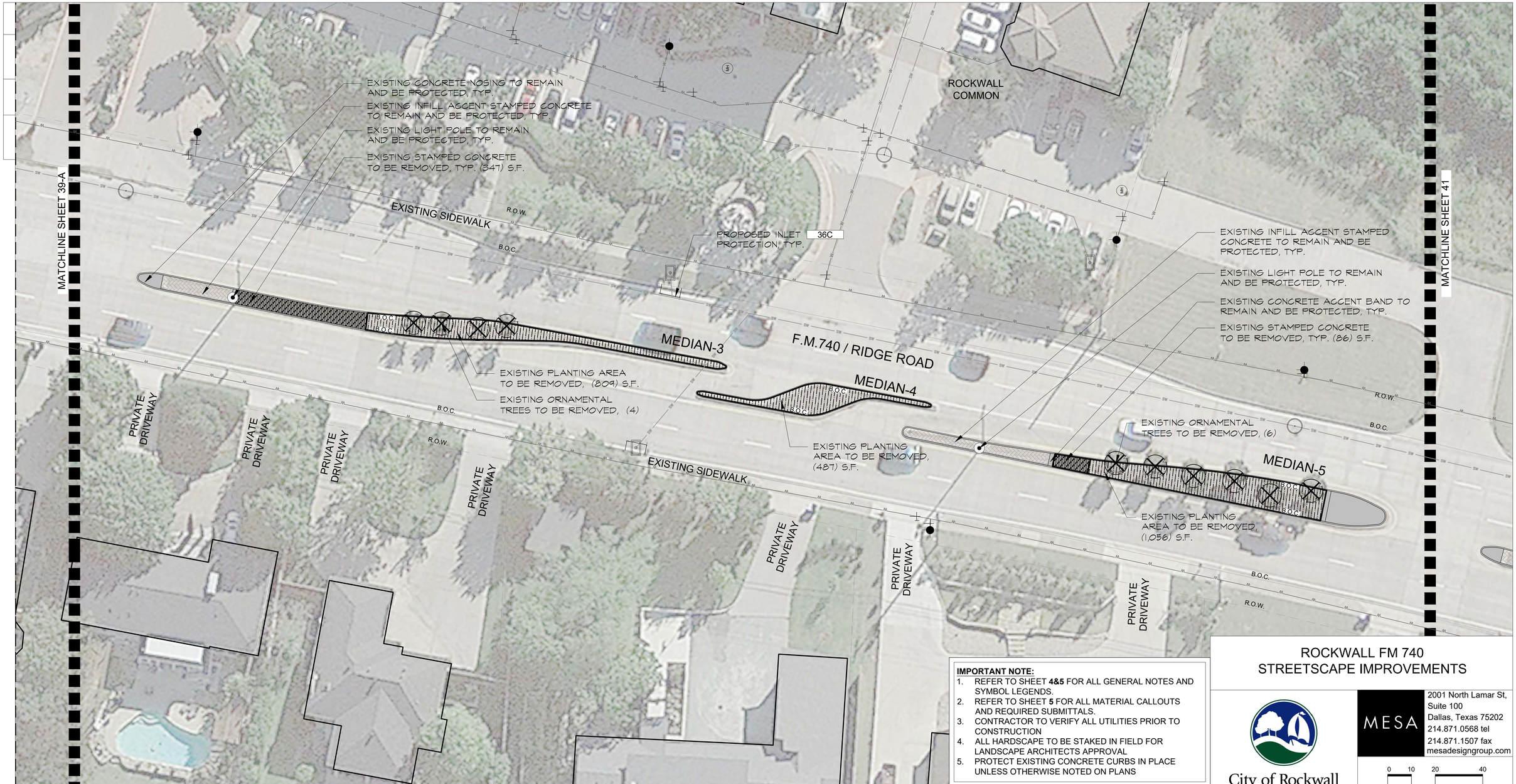
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2001 North Lamar St, Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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ADD ALT MEDIAN - 1&2 DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	39-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

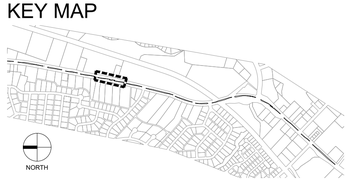
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
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- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2116 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

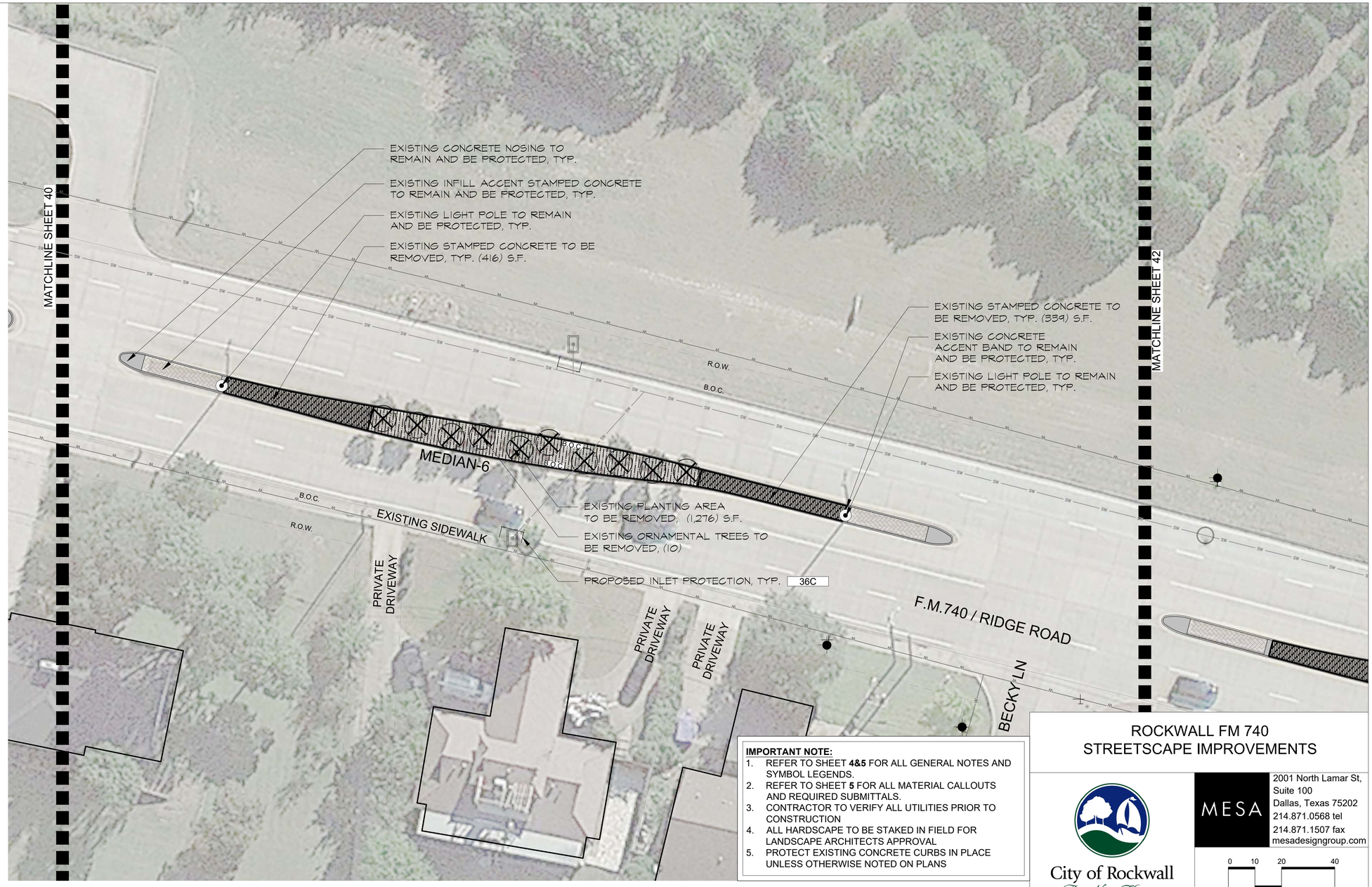
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2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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MEDIAN - 3,4&5
DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	40
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

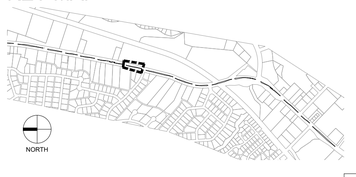
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
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- WATER LINE
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STEVAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

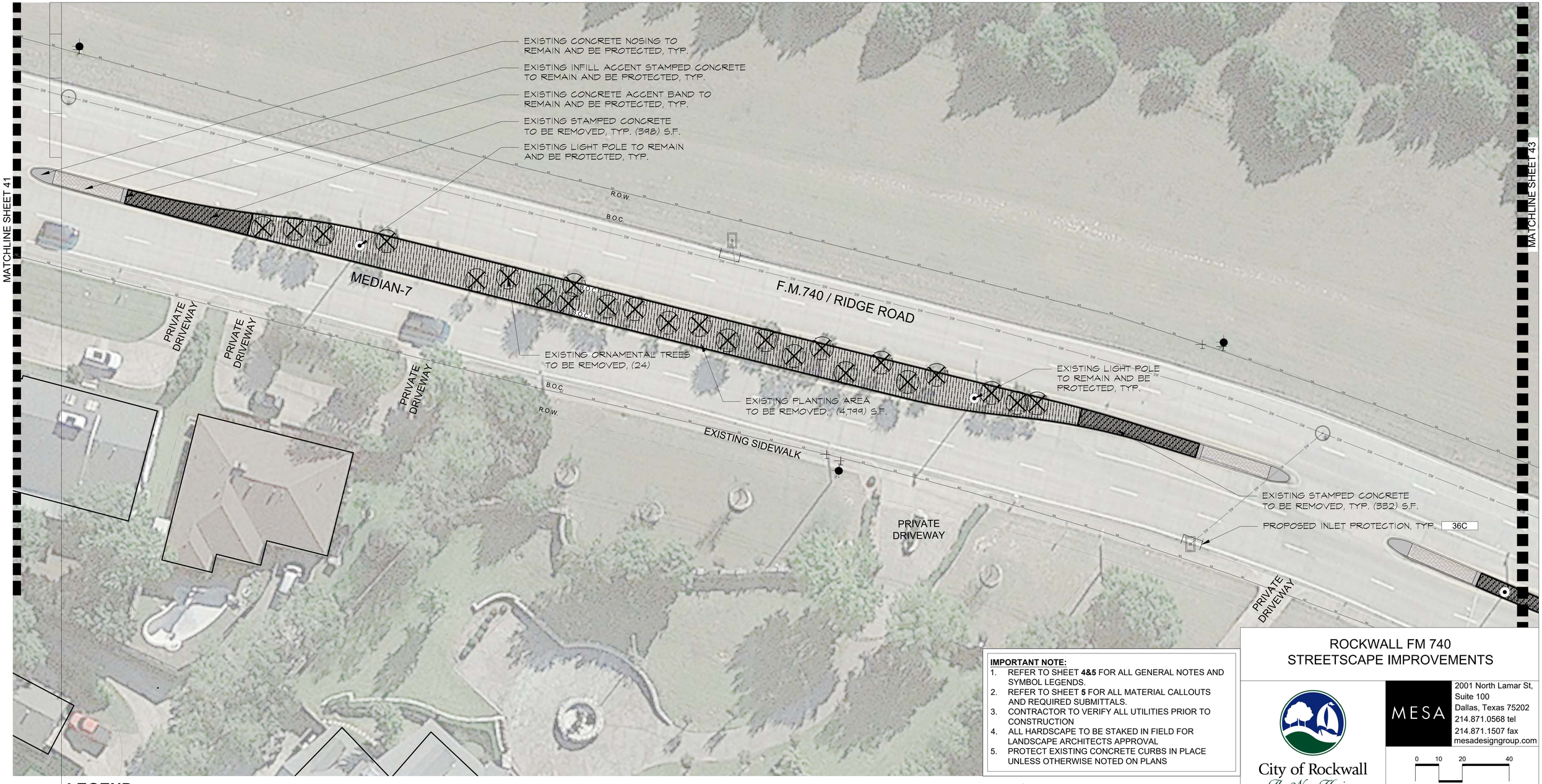
MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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MEDIAN - 6
DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	41
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



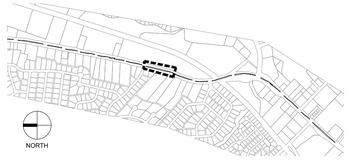
IMPORTANT NOTE:

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2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
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LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
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- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

	Date	Description

STANLEY R. COMAN 2119 REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

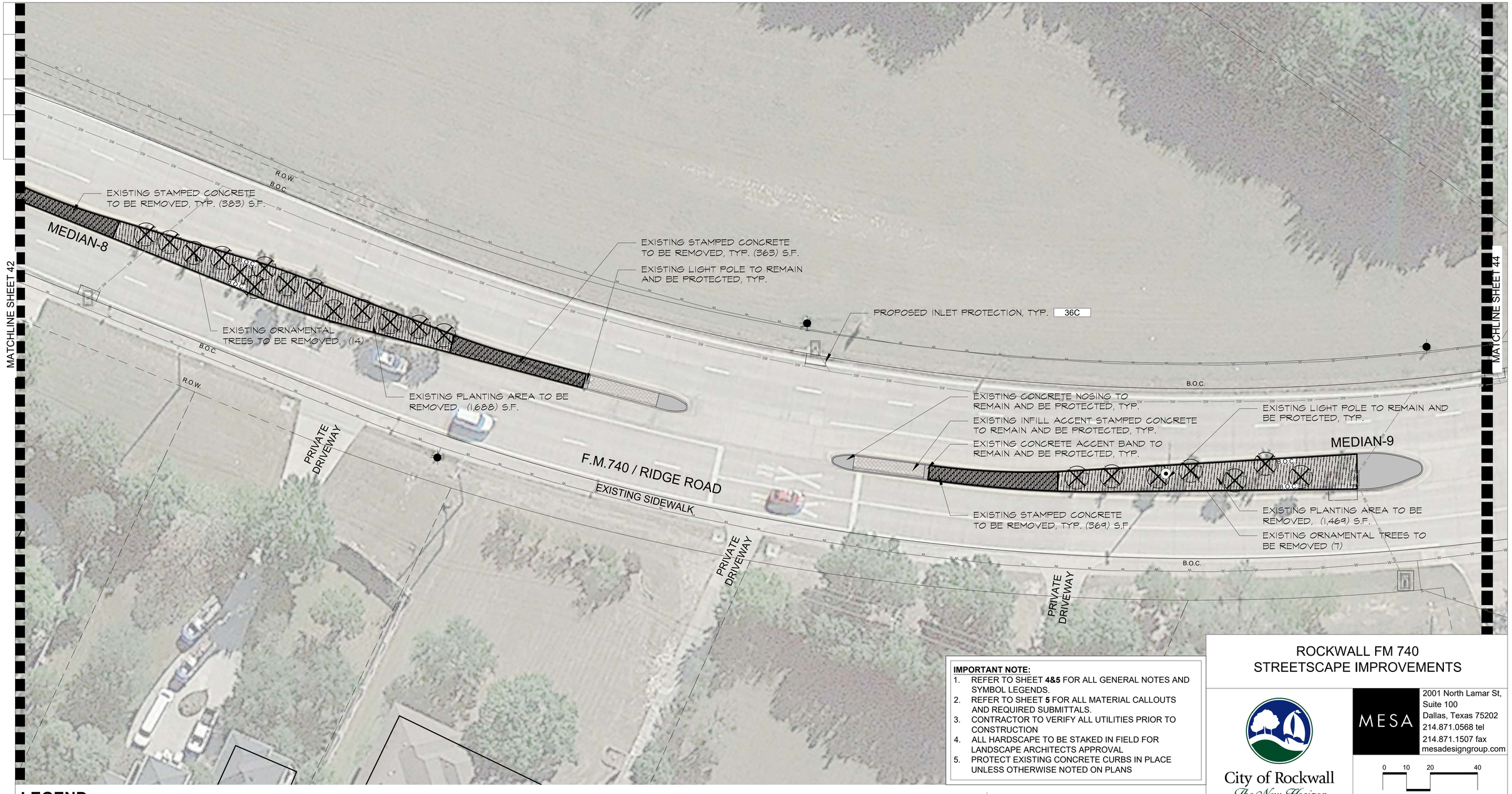
MESA
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Dallas, Texas 75202
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214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

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MEDIAN - 7 DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	42
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

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LEGEND:

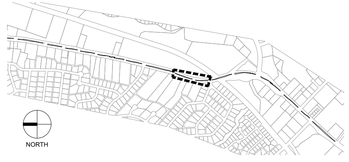
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
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- TYPE 1 ROCK FILTER DAM

Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

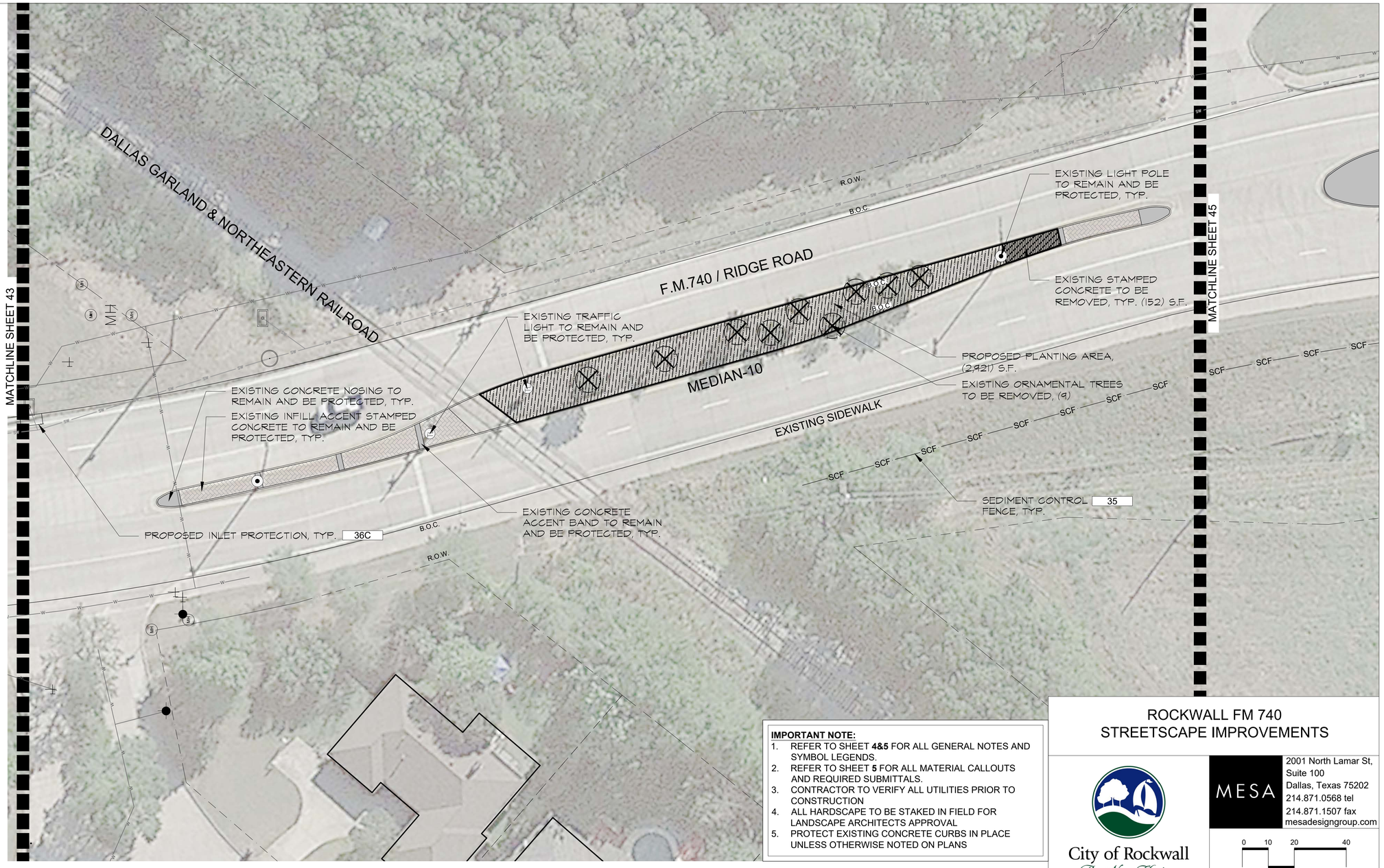
MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
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mesadesigngroup.com

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SCALE: 1" = 20'-0"

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MEDIAN - 8 & 9
DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	43
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



IMPORTANT NOTE:

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LEGEND:

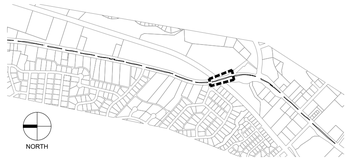
- TRAFFIC LIGHT
- STREET LIGHT POLE
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- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
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- TYPE 1 ROCK FILTER DAM

Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT
STEVAN R. COWAN
2118
STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

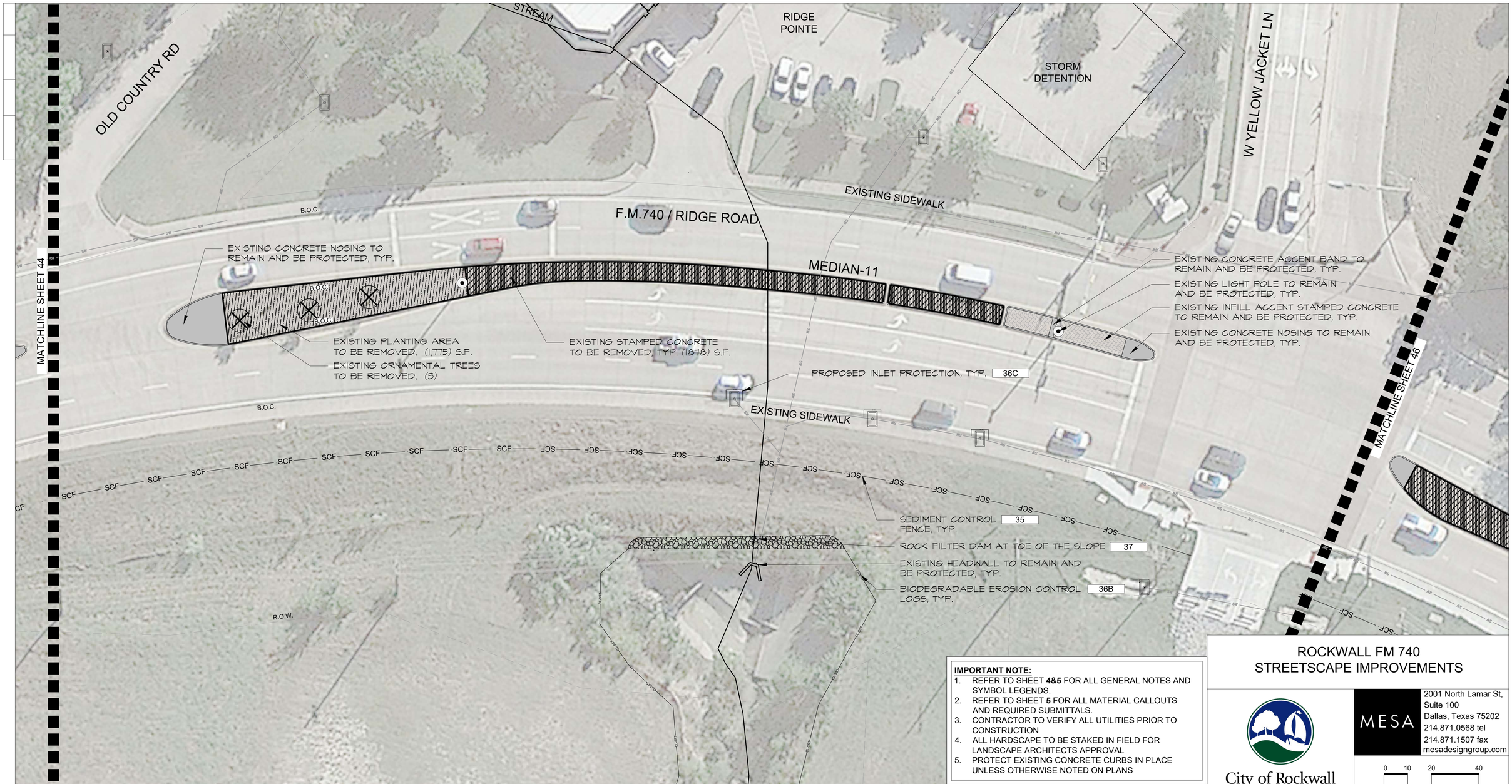
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Dallas, Texas 75202
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mesadesigngroup.com

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SCALE: 1" = 20'-0"

Texas Department of Transportation
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MEDIAN - 10
DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	44
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



IMPORTANT NOTE:

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3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

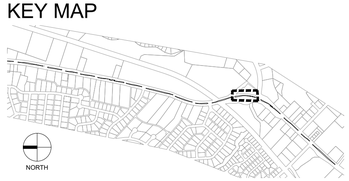
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2116 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

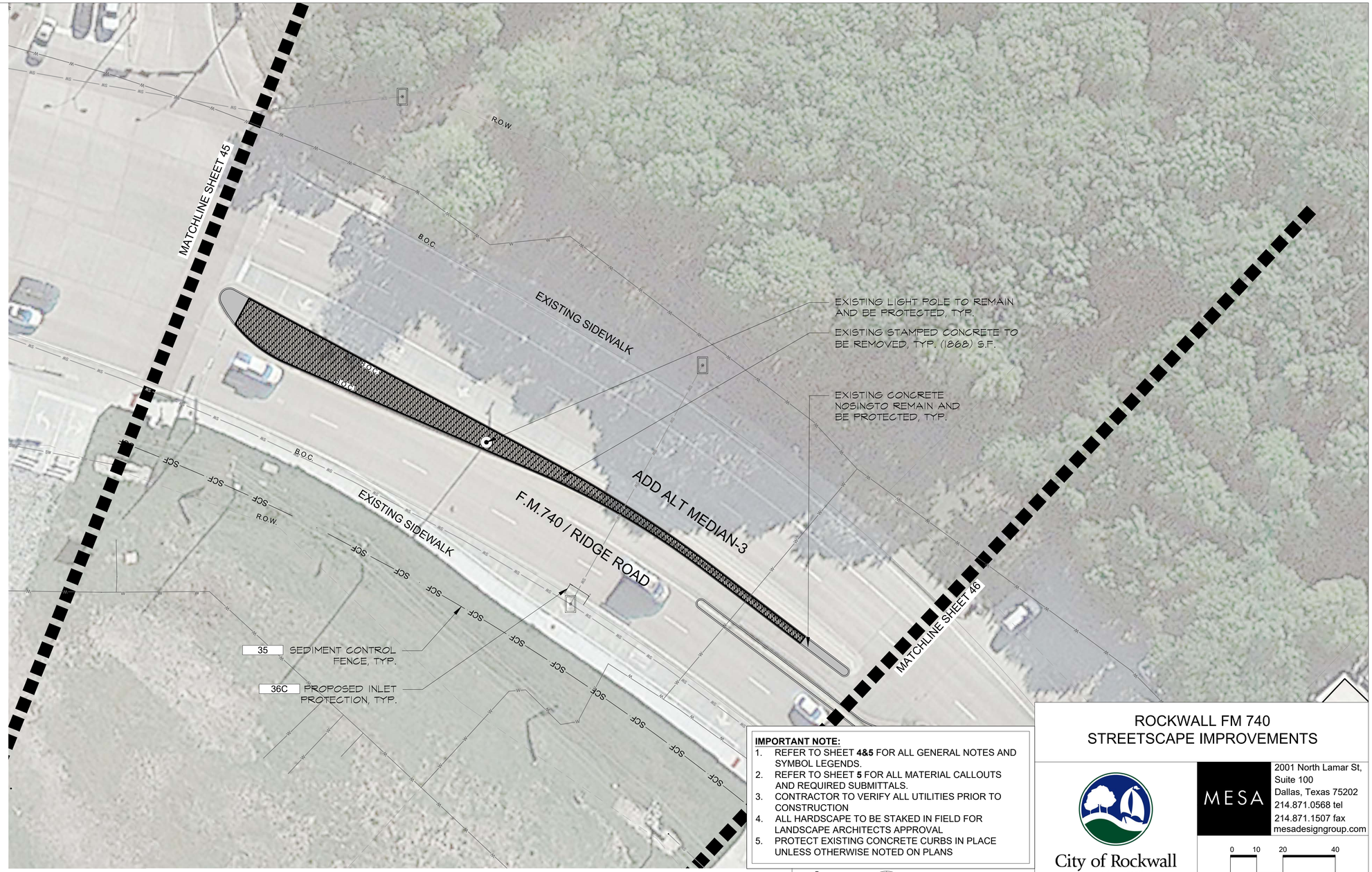
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SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 11
DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	45
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

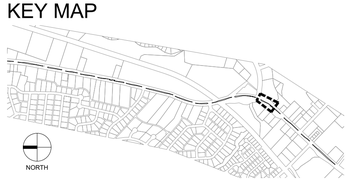
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Demolition Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

STAN R. COWAN
REGISTERED LANDSCAPE ARCHITECT
2118
STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

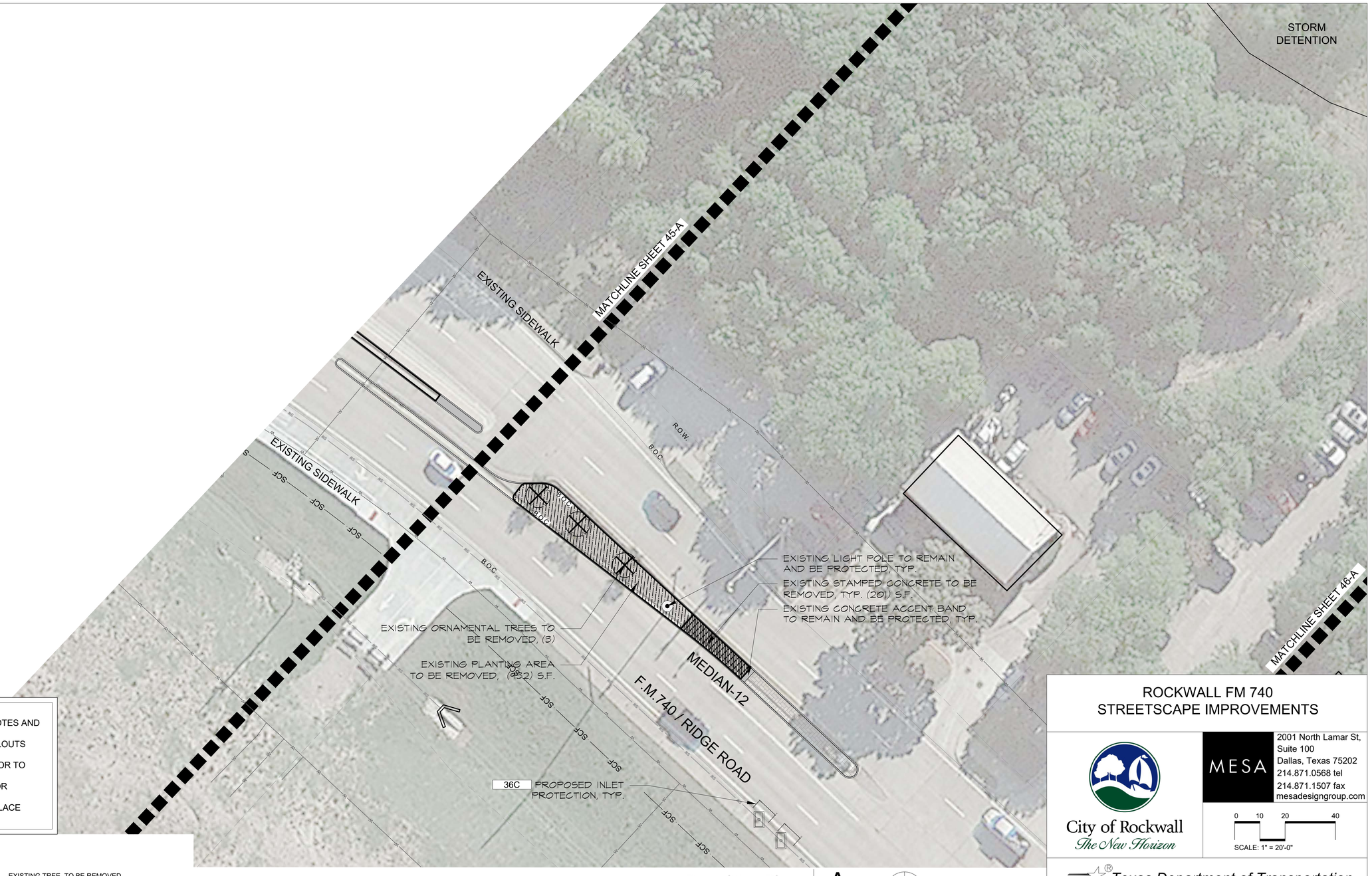
MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

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ADD ALT MEDIAN - 3
DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	45-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



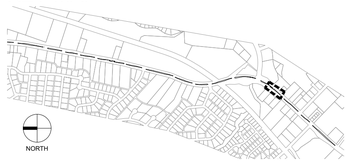
IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

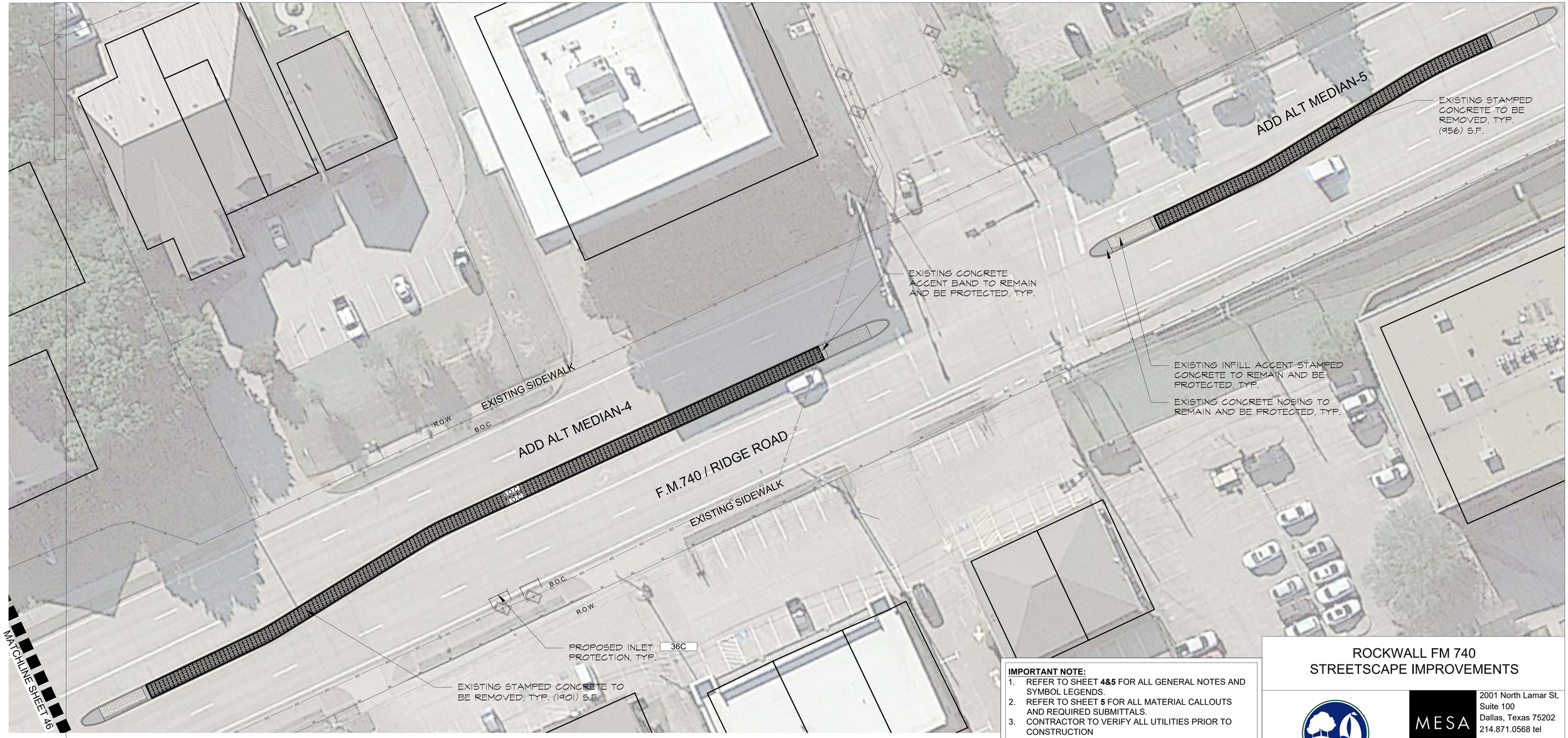
MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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MEDIAN - 12 DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	46
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



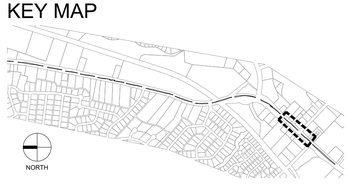
IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
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- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT
STAN R. COWAN
2118
STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

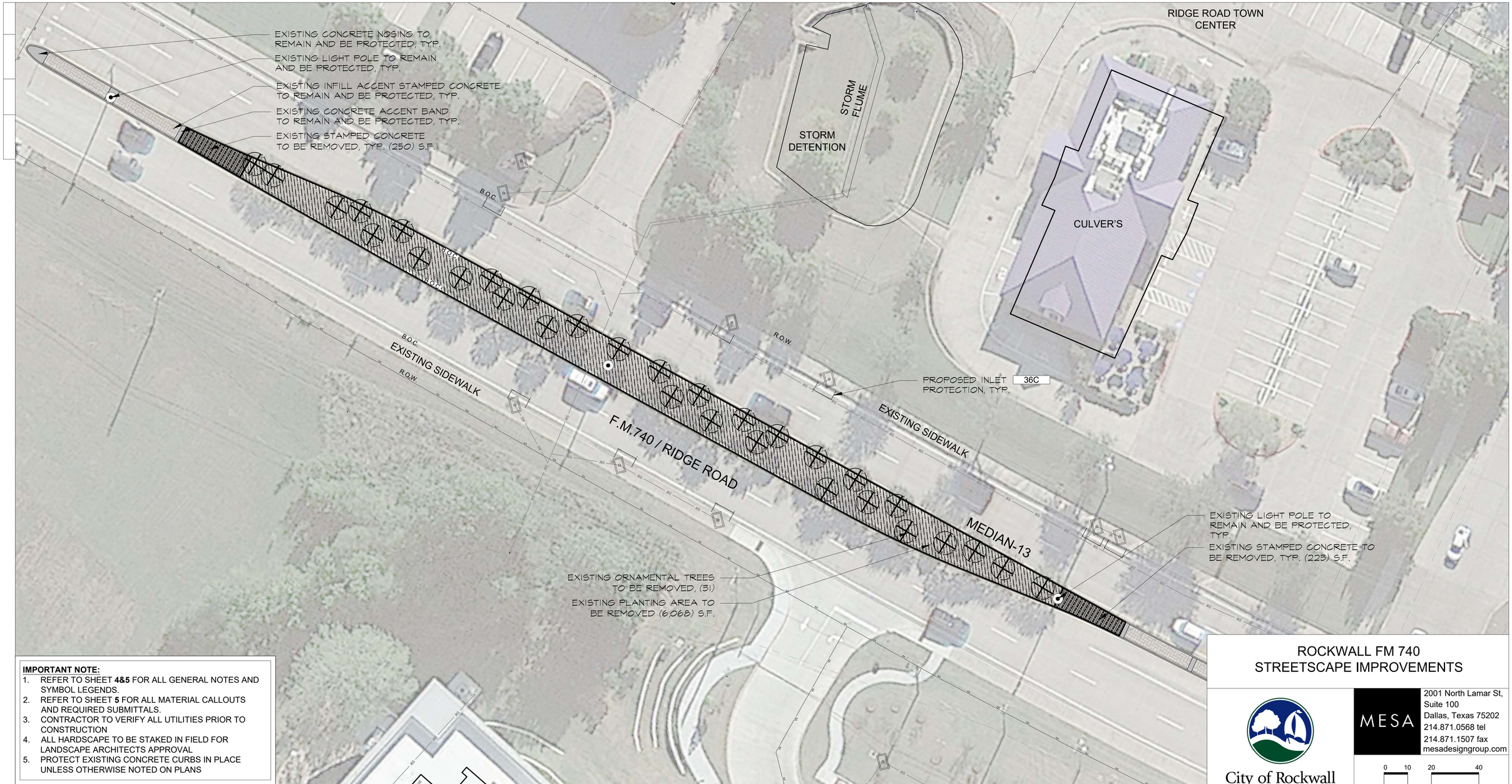
MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

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ADD ALT MEDIAN - 4&5 DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	46-A
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

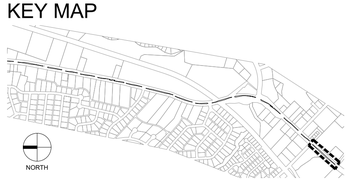
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
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- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Demolition Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
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Dallas, Texas 75202
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0 10 20 40
SCALE: 1" = 20'-0"

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MEDIAN - 13
DEMOLITION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	47
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

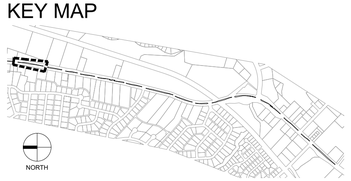
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
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- EXISTING CONCRETE ACCENT BAND
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT RYAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

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SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 1 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	48
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
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LEGEND:

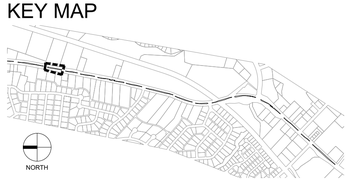
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS STAN R. COWAN 2118

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40

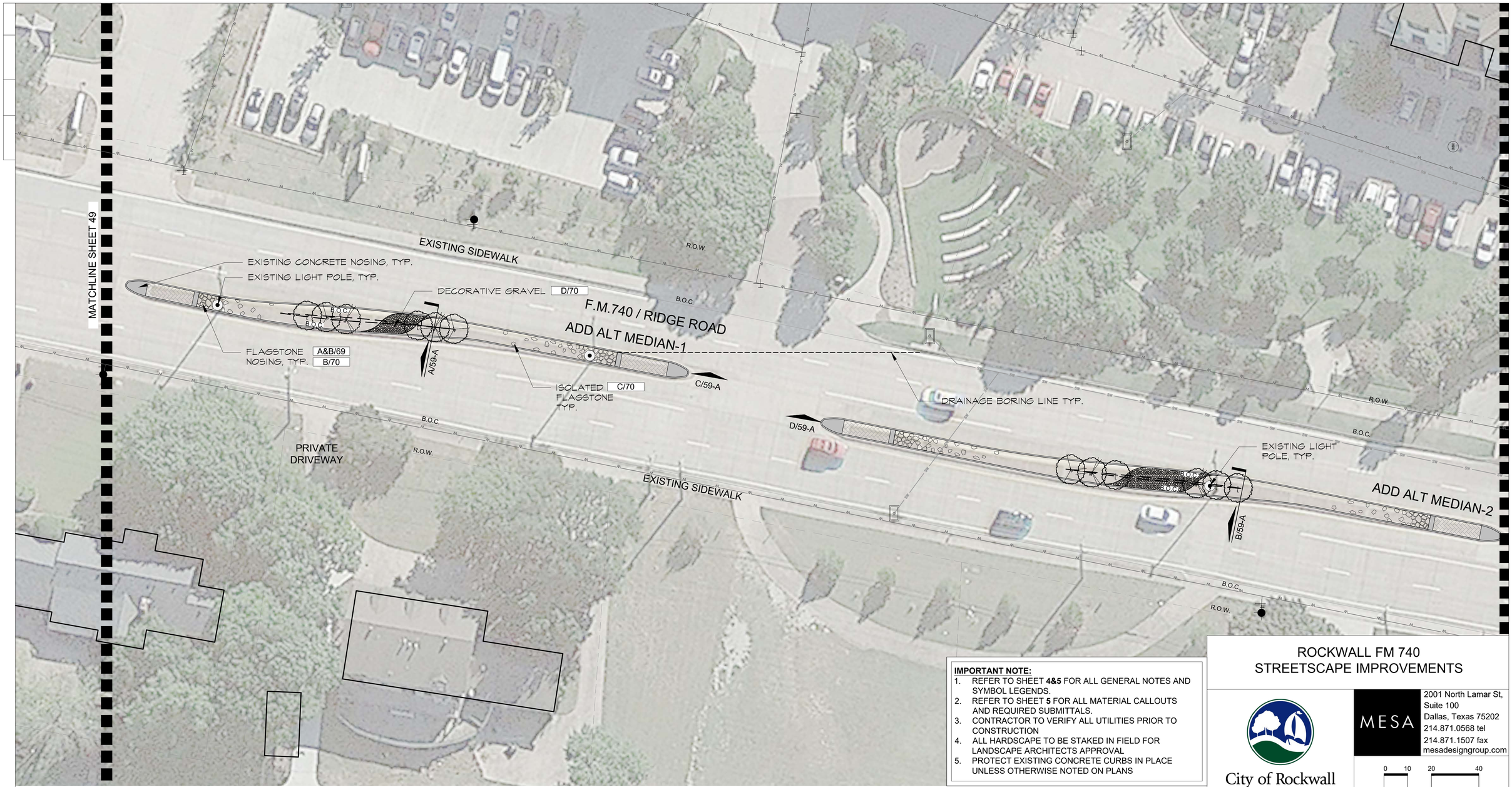
SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 2 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	49
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



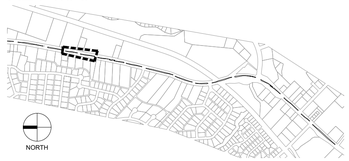
IMPORTANT NOTE:

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LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
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- EXISTING CONCRETE ACCENT BAND
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- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

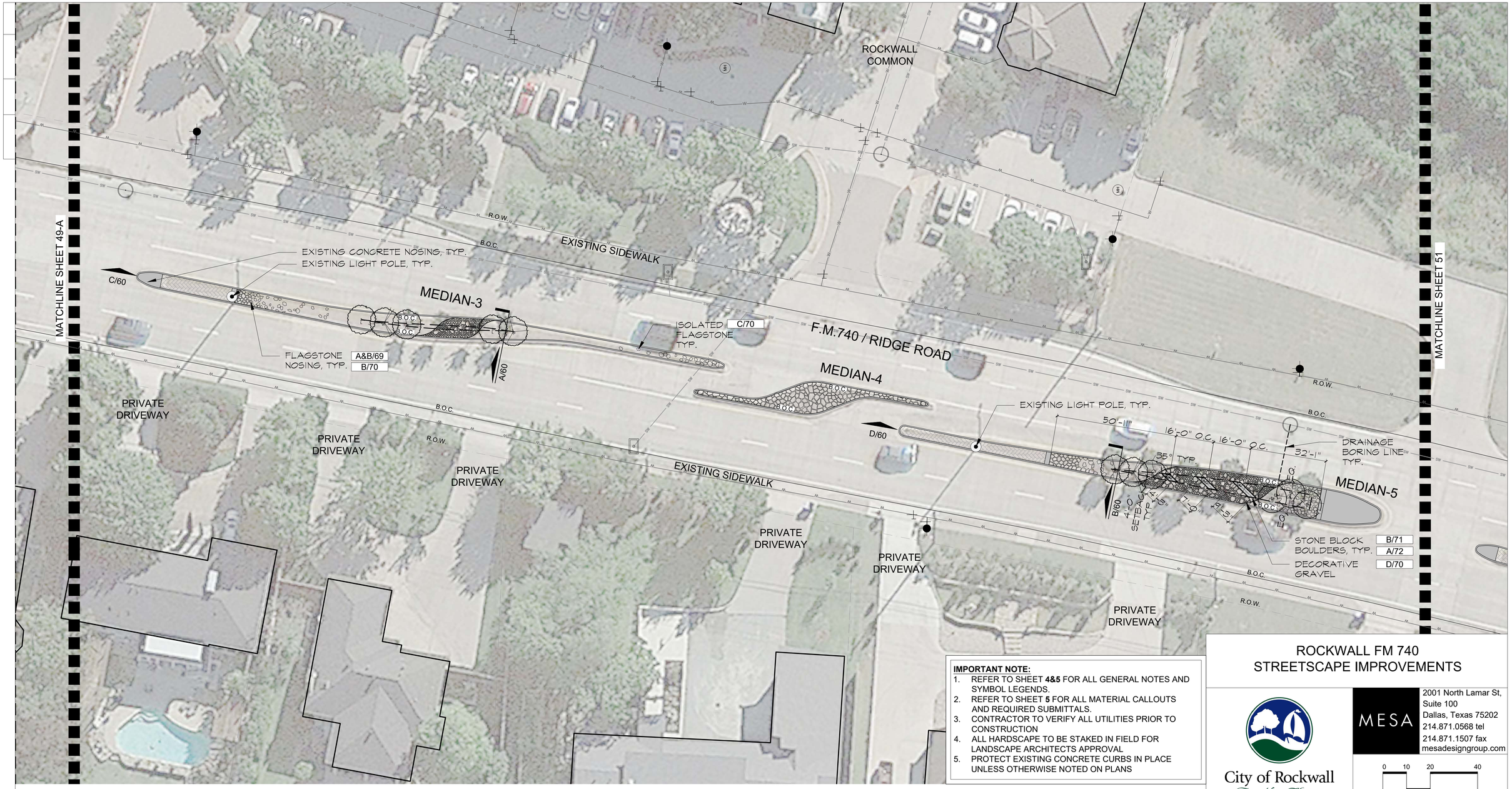
MESA
2001 North Lamar St, Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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ADD ALT MEDIAN - 1&2 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	49-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

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LEGEND:

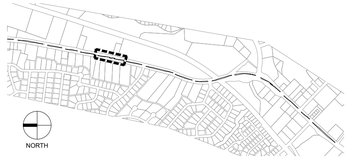
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
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- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COMAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40

SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 3,4&5 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	50
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



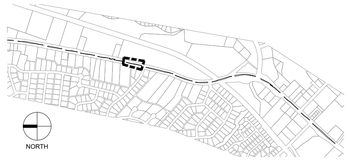
IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
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- EXISTING STAMPED CONCRETE TO BE REMOVED
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STEVEN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

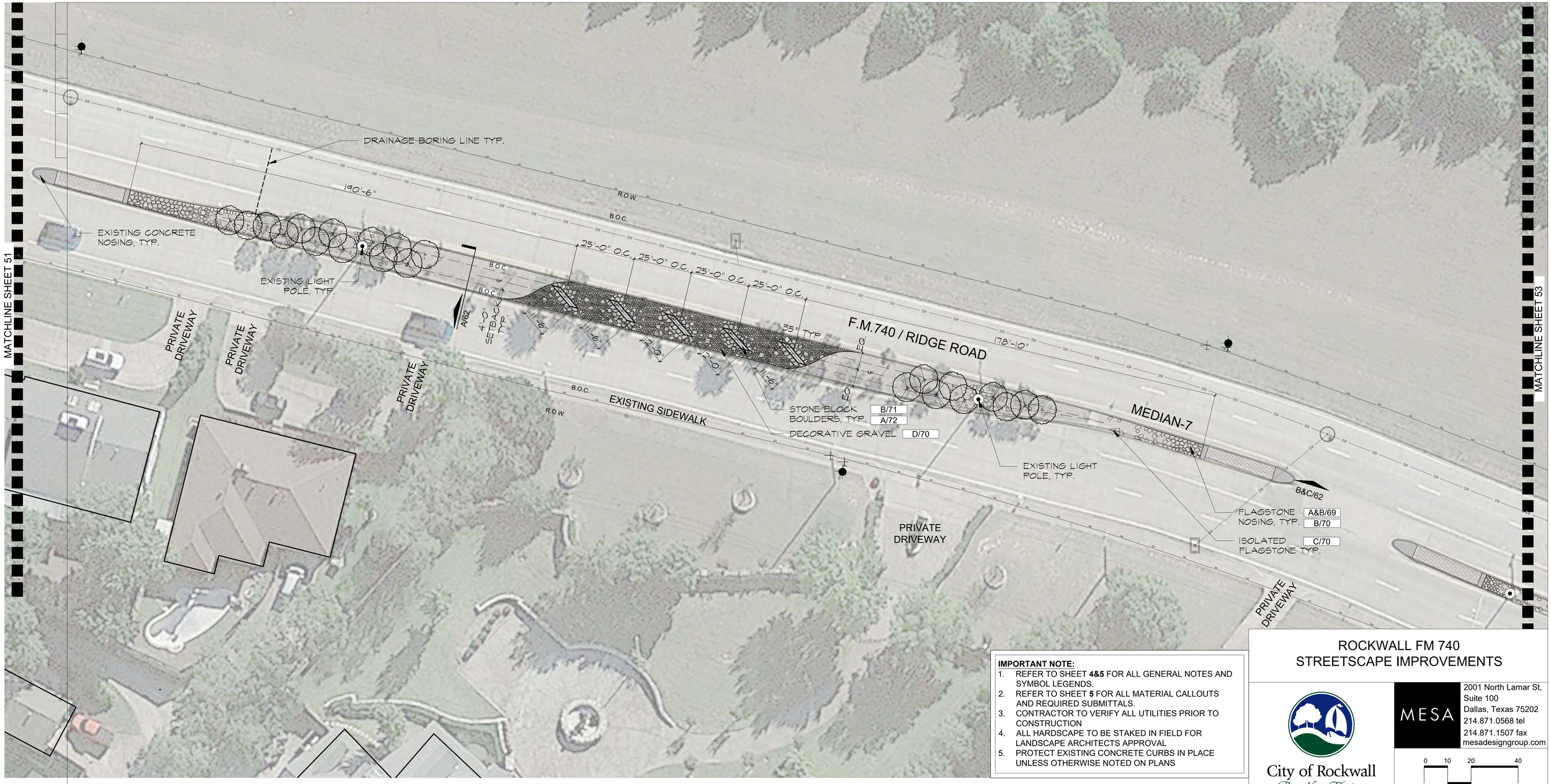
MESA
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Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

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MEDIAN - 6 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	51
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



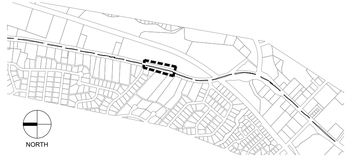
IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
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- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STEVEN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

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MEDIAN - 7 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	52
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

MATCHLINE SHEET 52

MATCHLINE SHEET 54

R.O.W.
B.O.C.
90'-2"
16'-0" O.C.
16'-0" O.C.
4'-0" SETBACK TYP.
B/63
B.O.C.
30'-0"
10'-6"
12'-3"
11'-0"
35° TYP.
E.O.
11'-8"
DRAINAGE BORING LINE TYP.
ISOLATED FLAGSTONE TYP. C/70
FLAGSTONE NOSING, TYP. A&B/69 B/70
MEDIAN-8
EXISTING LIGHT POLE, TYP.
EXISTING CONCRETE NOSING, TYP.
STONE BLOCK BOULDERS B/71 A/72
DECORATIVE GRAVEL D/70
C/63
B.O.C.
R.O.W.
PRIVATE DRIVEWAY
EXISTING SIDEWALK
PRIVATE DRIVEWAY
PRIVATE DRIVEWAY
F.M.740 / RIDGE ROAD
MEDIAN-9
D/63
107'-8"
15'-0" O.C.
15'-0" O.C.
43'-1"
35° TYP.
E.O.
B.O.C.
E.O.
A/63
11'-8"
10'-3"
10'-3"
FLAGSTONE NOSING, TYP. A&B/69 B/70
DECORATIVE GRAVEL D/70
EXISTING LIGHT POLE, TYP.
STONE BLOCK BOULDERS B/71 A/72
B.O.C.
B.O.C.

IMPORTANT NOTE:

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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
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- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP

NORTH

Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

City of Rockwall
The New Horizon

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2001 North Lamar St,
Suite 100
Dallas, Texas 75202
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214.871.1507 fax
mesadesigngroup.com

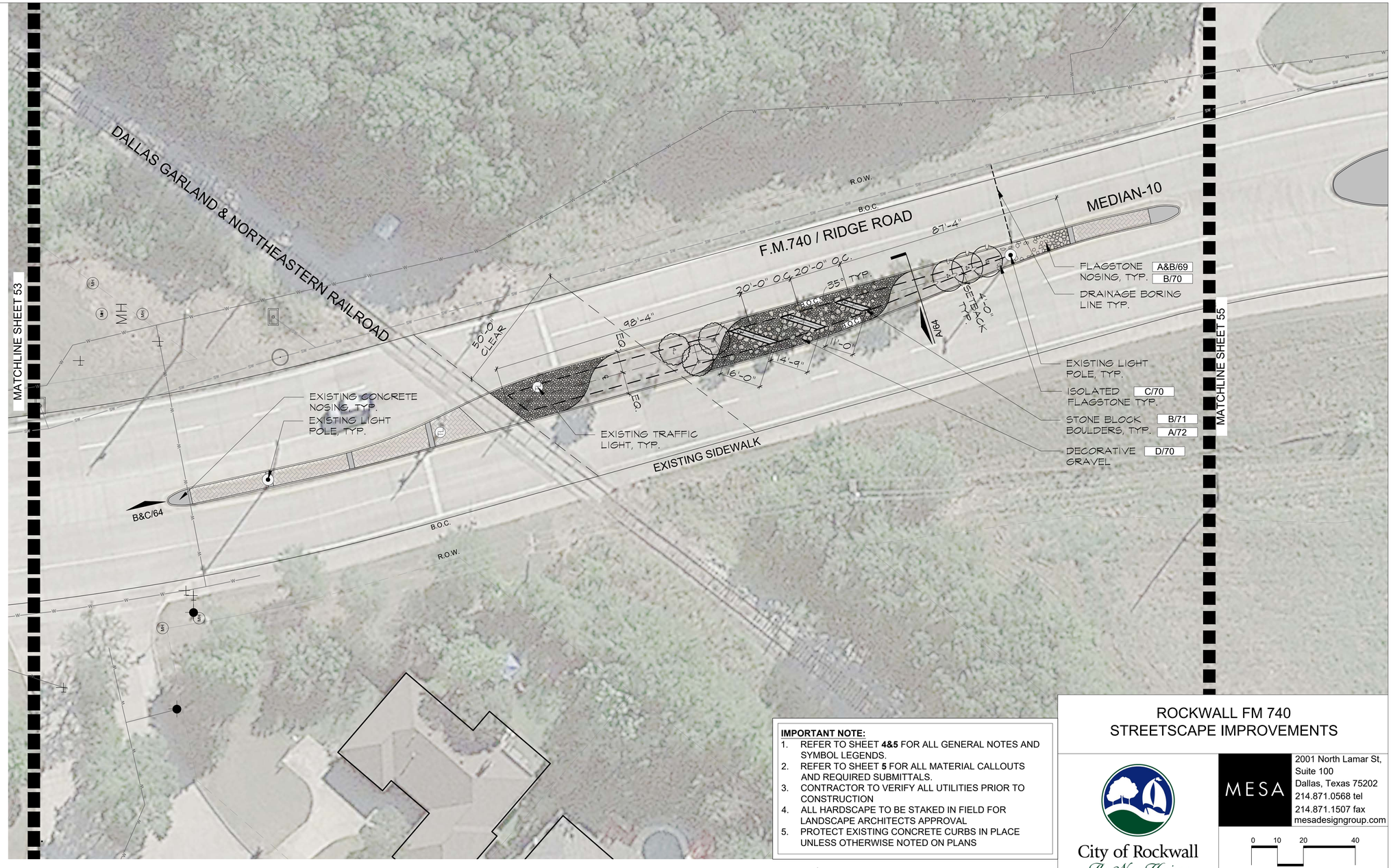
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SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 8&9
LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	53
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

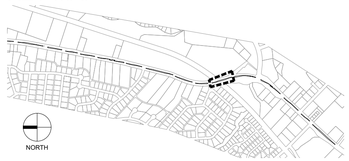
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
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- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COMAN 2119 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

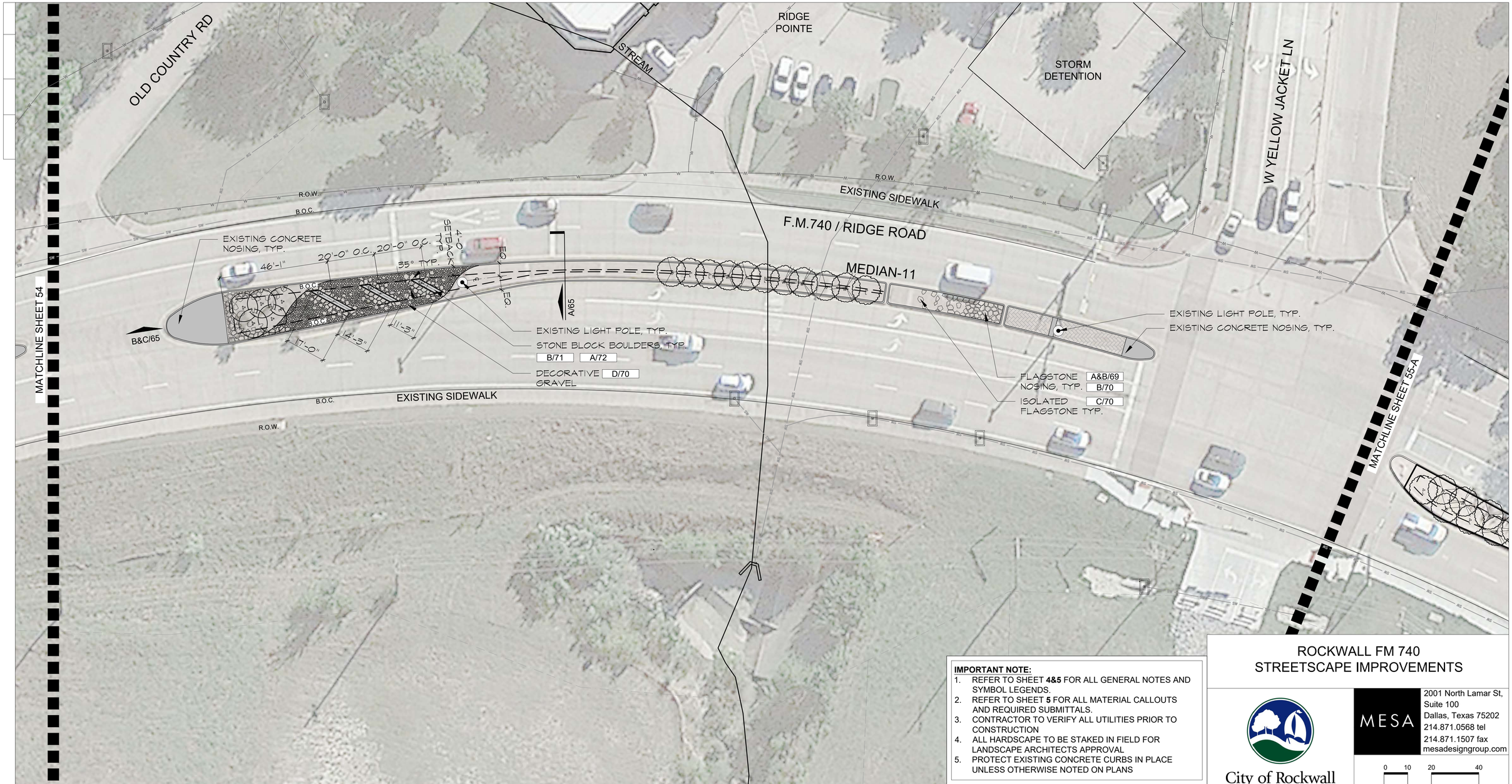
MESA
2001 North Lamar St,
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Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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MEDIAN - 10 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	54
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

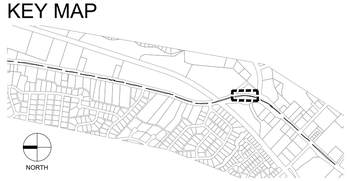
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
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- EXISTING PLANTING AREA TO BE REMOVED
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- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

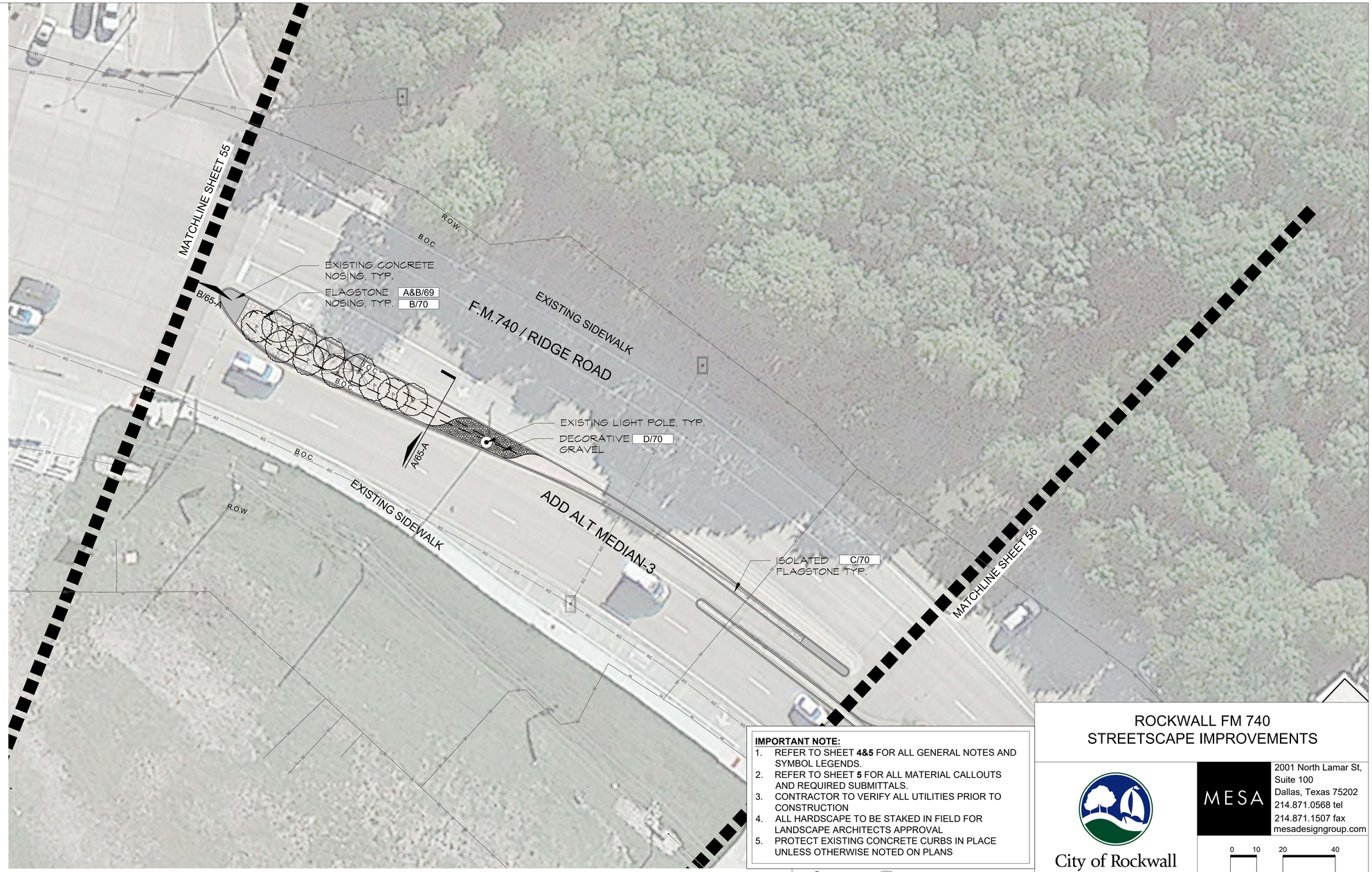
0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 11 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	55
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

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LEGEND:

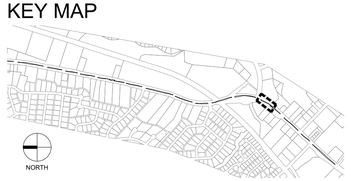
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
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- STORM INLET
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- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
© 2026

ADD ALT MEDIAN - 3
LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	55-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IMPORTANT NOTE:

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LEGEND:

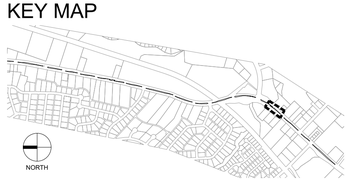
- TRAFFIC LIGHT
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2116 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

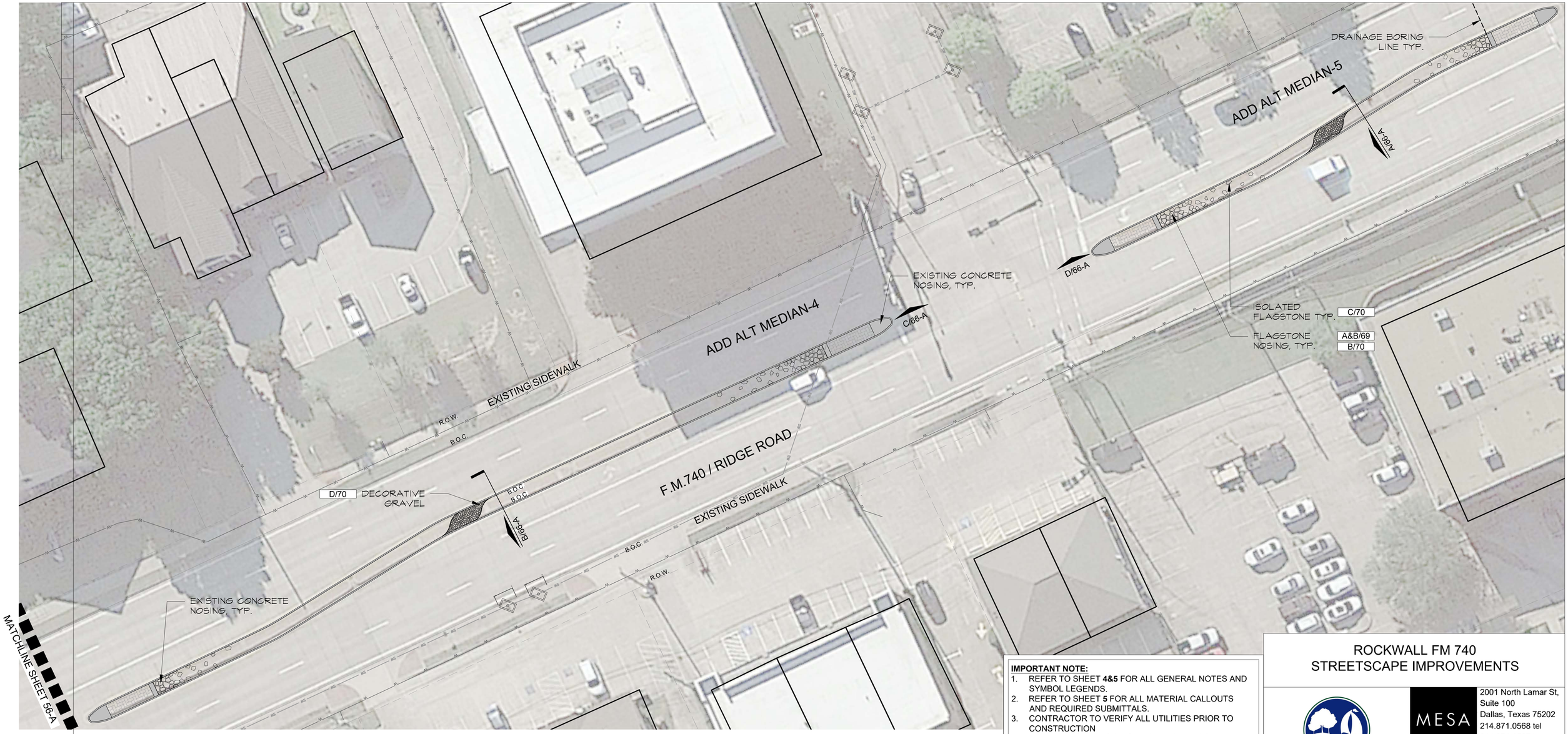
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Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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MEDIAN - 12
LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	56
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



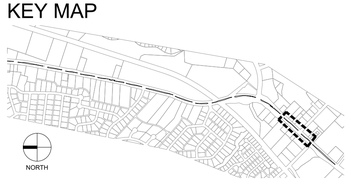
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LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
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- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS RYAN R. COWAN 2118

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

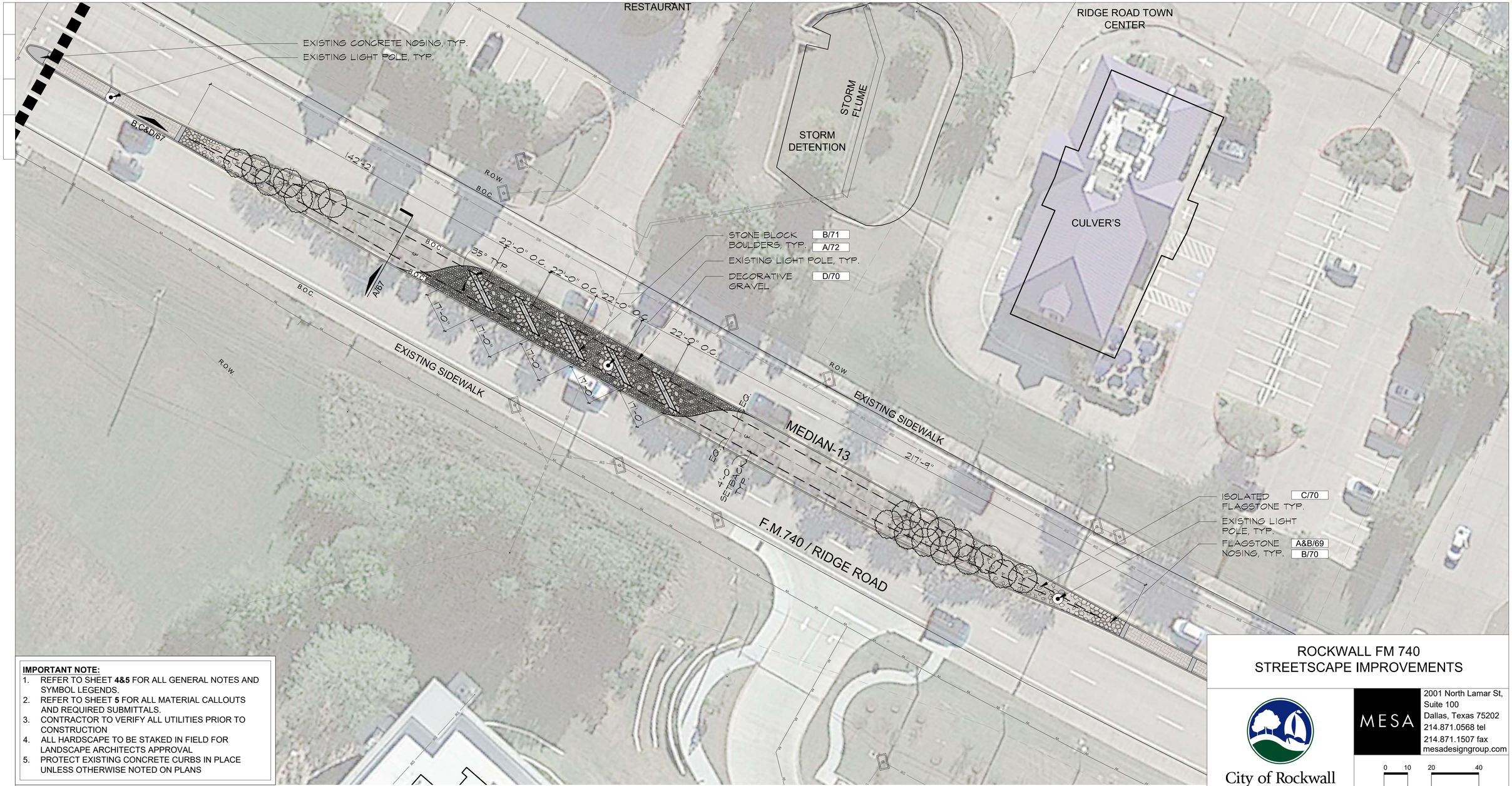
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2001 North Lamar St,
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Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

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ADD ALT MEDIAN - 4&5 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	56-A
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

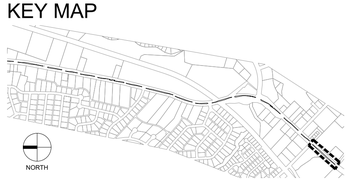
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COMAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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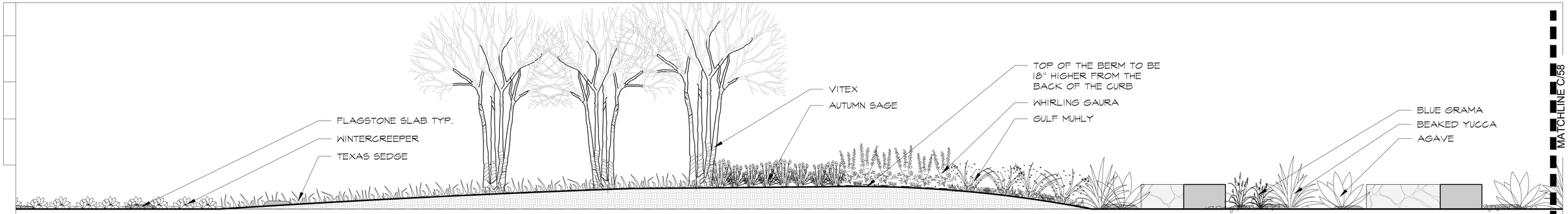
SCALE: 1" = 20'-0"

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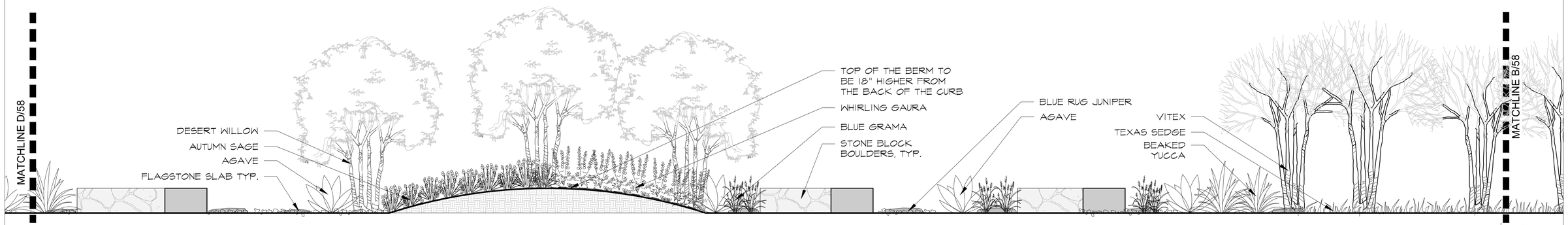
MEDIAN - 13 LAYOUT PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	57
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



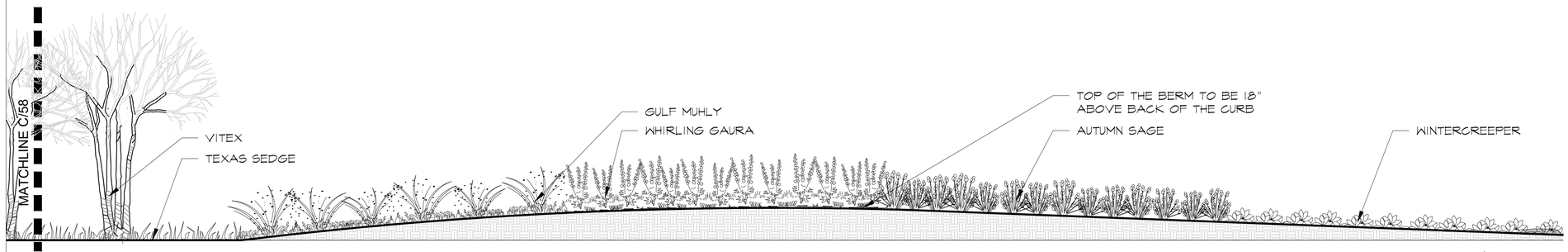
Median - 1 North Profile | D

Scale: 1/4"= 1'-0"



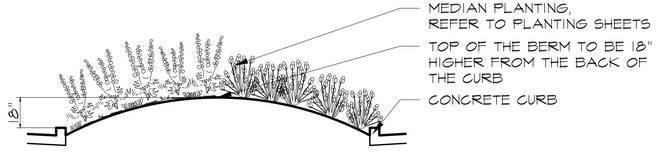
Median - 1 Center Profile | C

Scale: 1/4"= 1'-0"



Median - 1 South Profile | B

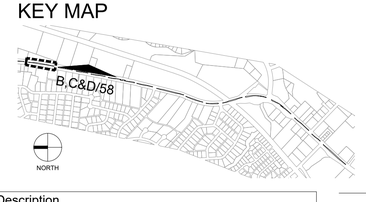
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Median - 1 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

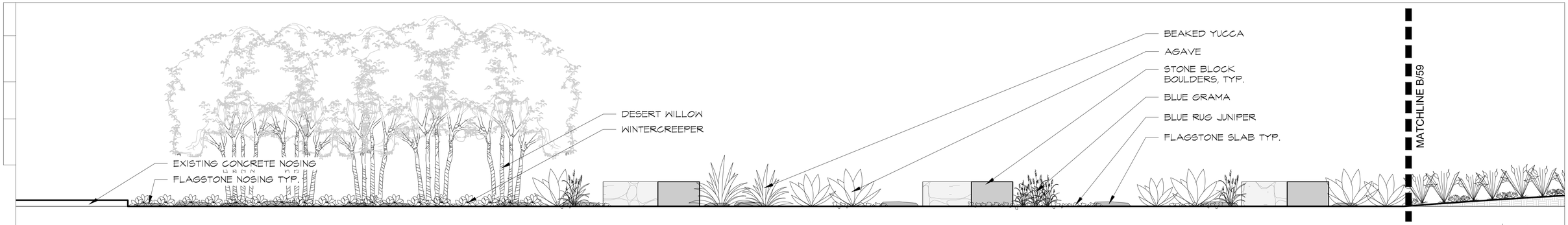
MESA
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214.871.1507 fax
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SCALE: 1" = 20'-0"

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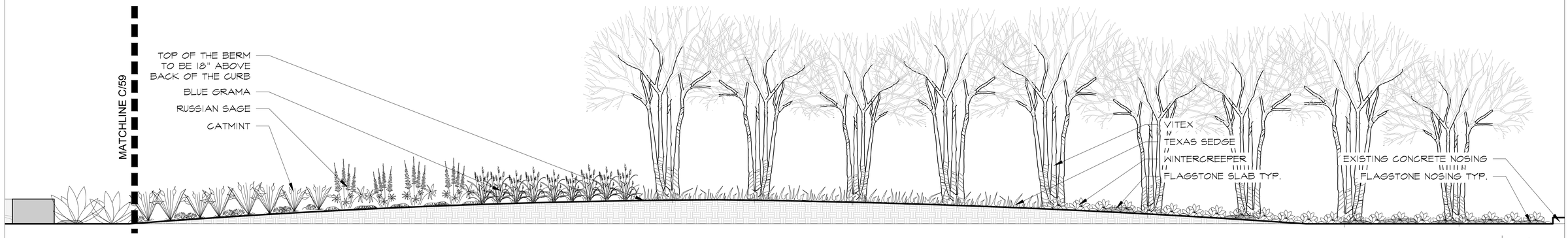
MEDIAN - 1 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	58
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



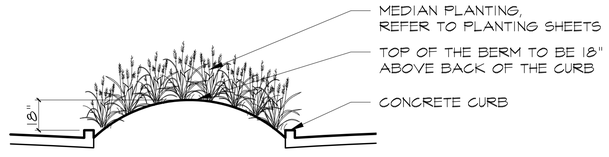
Median - 2 North Profile | C

Scale: 1/4"= 1'-0"



Median - 2 South Profile | B

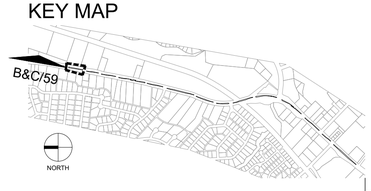
Scale: 1/4"= 1'-0"



Median - 2 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
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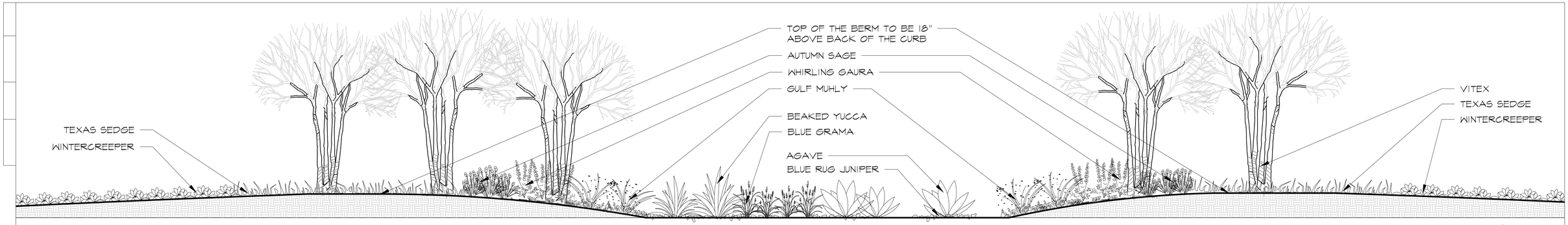
0 10 20 40
SCALE: 1" = 20'-0"

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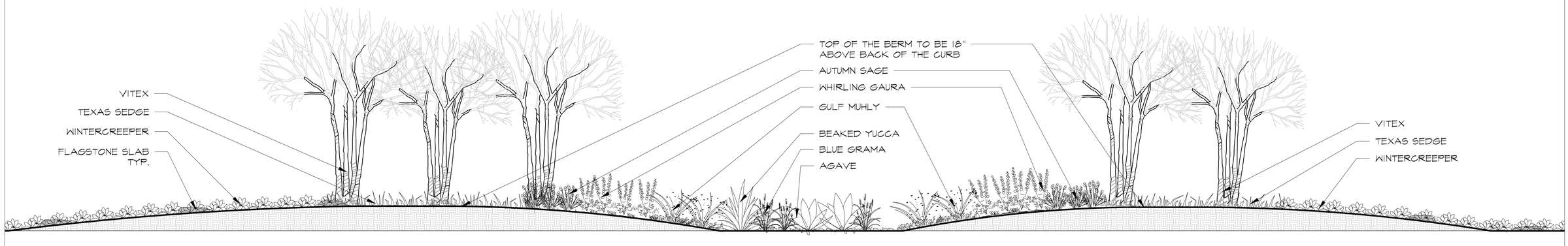
MEDIAN - 2 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	59
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



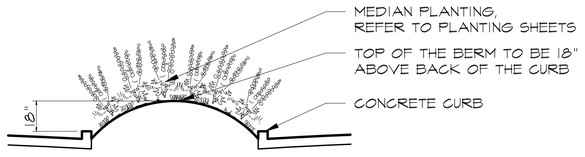
Add Alt Median - 2 Profile | D

Scale: 1/4"= 1'-0"



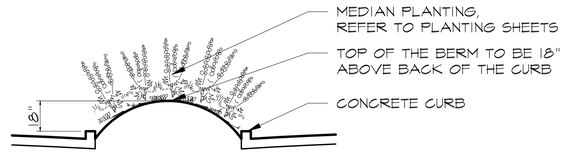
Add Alt Median - 1 Profile | C

Scale: 1/4"= 1'-0"



Add Alt Median - 2 Cross Section | B

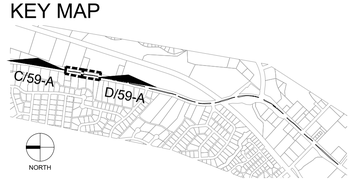
Scale: 1/4"= 1'-0"



Add Alt Median - 1 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

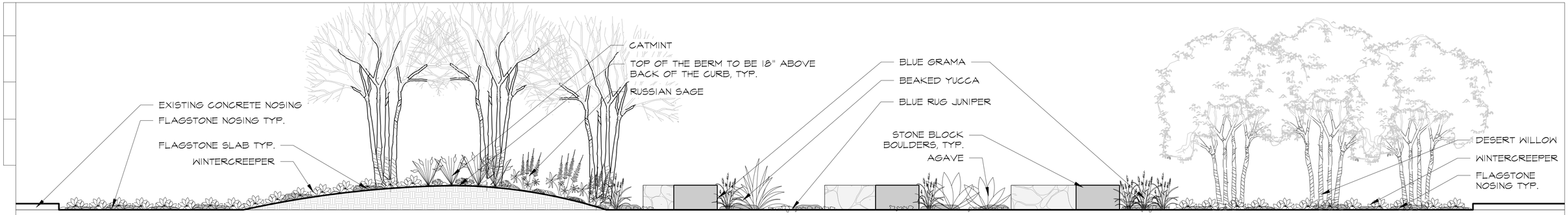
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214.871.1507 fax
mesadesigngroup.com

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SCALE: 1" = 20'-0"

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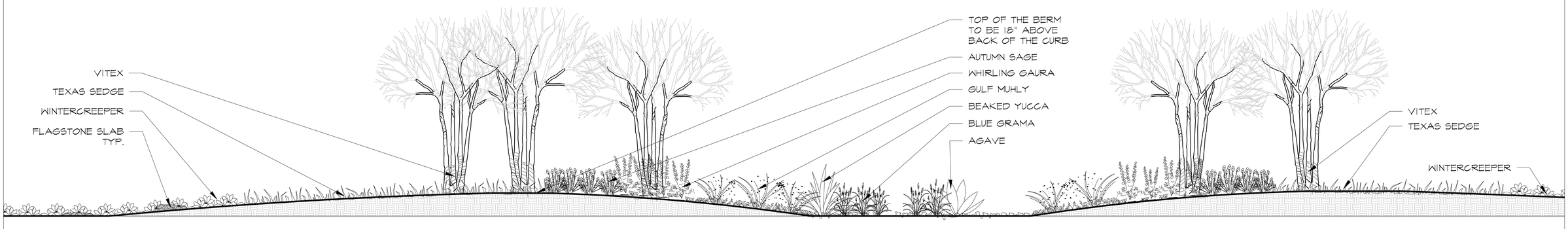
ADD ALT MEDIAN - 1 & 2 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	59-A
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



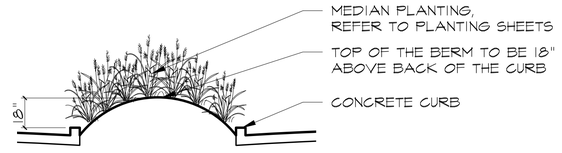
Median - 5 Profile | D

Scale: 1/4"= 1'-0"



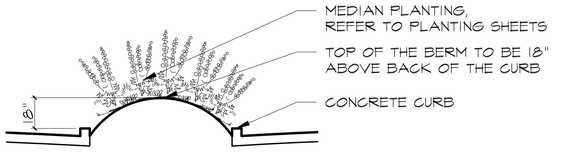
Median - 3 Profile | C

Scale: 1/4"= 1'-0"



Median - 5 Cross Section | B

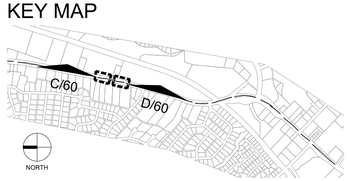
Scale: 1/4"= 1'-0"



Median - 3 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

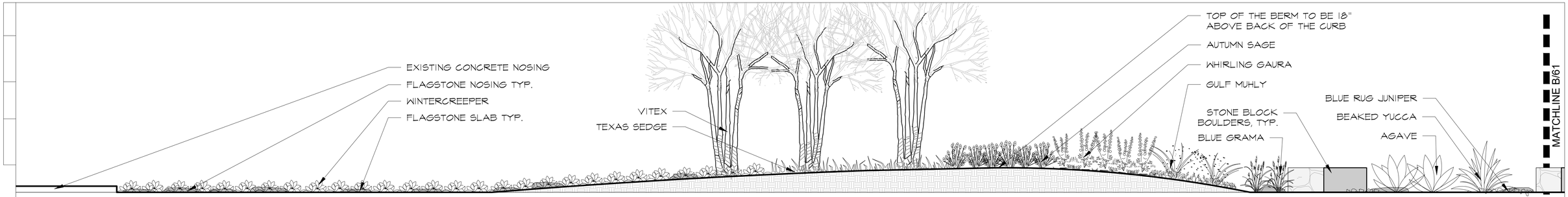
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SCALE: 1" = 20'-0"

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MEDIAN - 3 & 5 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	60
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



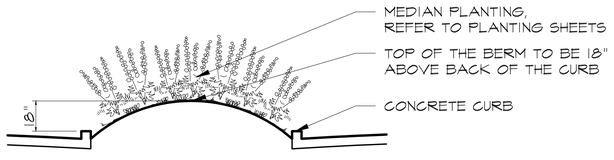
Median - 6 North Profile | C

Scale: 1/4"= 1'-0"



Median - 6 South Profile | B

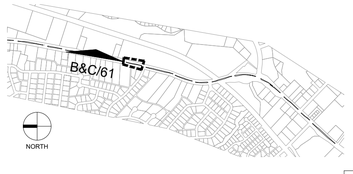
Scale: 1/4"= 1'-0"



Median - 6 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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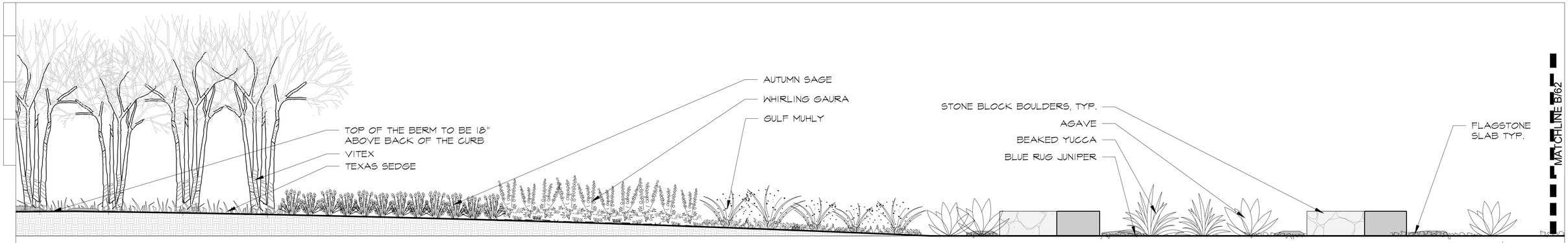
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SCALE: 1" = 20'-0"

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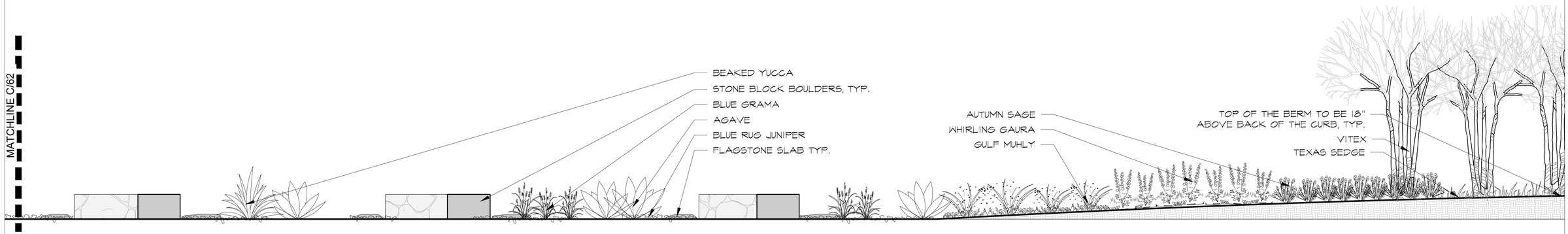
MEDIAN - 6 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	61
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



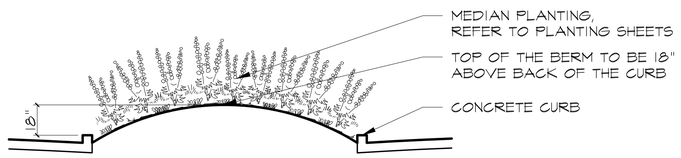
Median - 7 North Profile | C

Scale: 1/4"= 1'-0"



Median - 7 South Profile | B

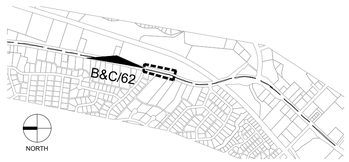
Scale: 1/4"= 1'-0"



Median - 7 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

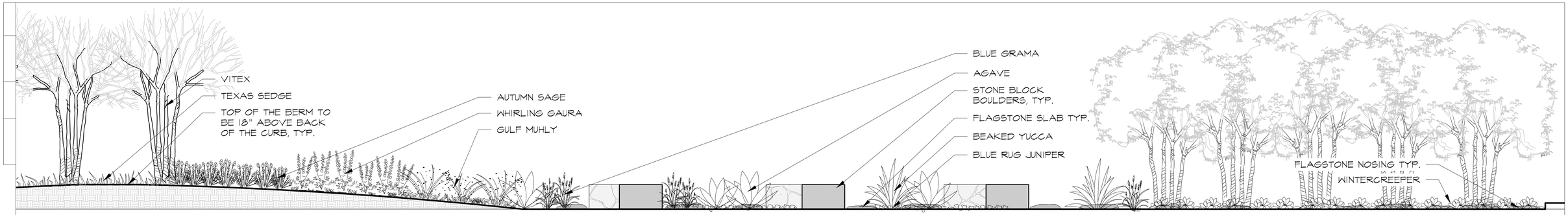
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214.871.1507 fax
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SCALE: 1" = 20'-0"

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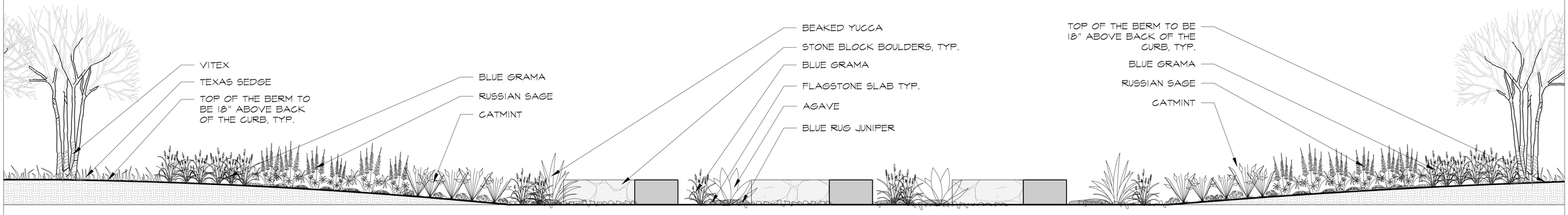
MEDIAN - 7 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	62
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



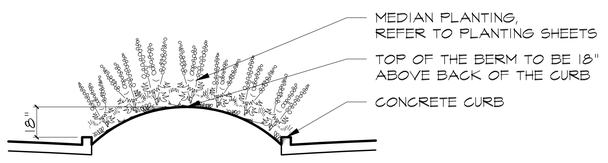
Median - 9 Profile | D

Scale: 1/4"= 1'-0"



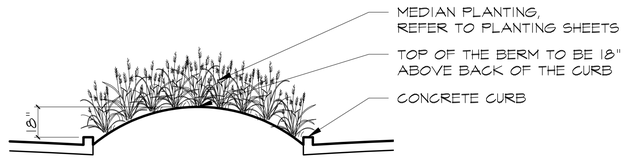
Median - 8 Profile | C

Scale: 1/4"= 1'-0"



Median - 9 Cross Section | B

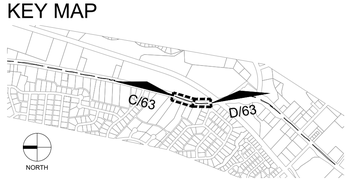
Scale: 1/4"= 1'-0"



Median - 8 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

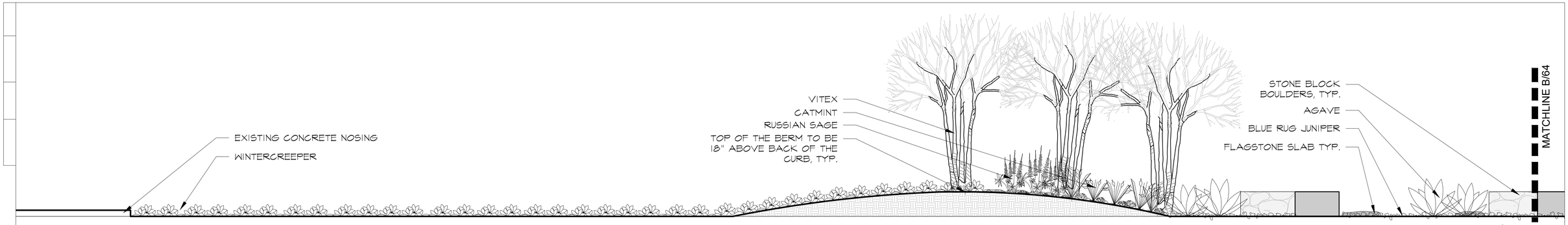
MESA
2001 North Lamar St,
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214.871.0568 tel
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mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

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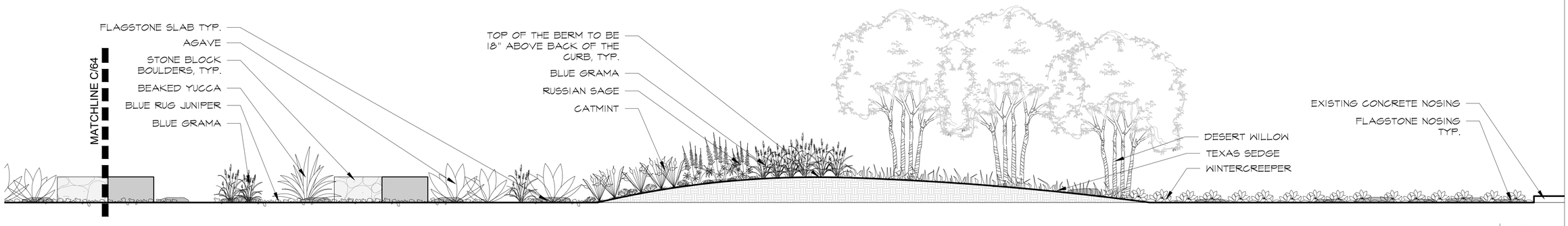
MEDIAN - 8 & 9 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	63
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



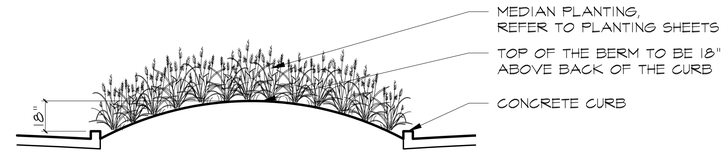
Median - 10 North Profile | C

Scale: 1/4"= 1'-0"



Median - 10 South Profile | B

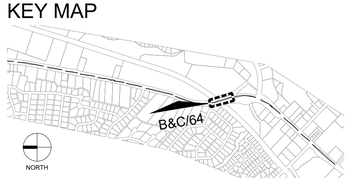
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Median - 10 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

Signature of Registrant & Date

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STREETSCAPE IMPROVEMENTS

City of Rockwall
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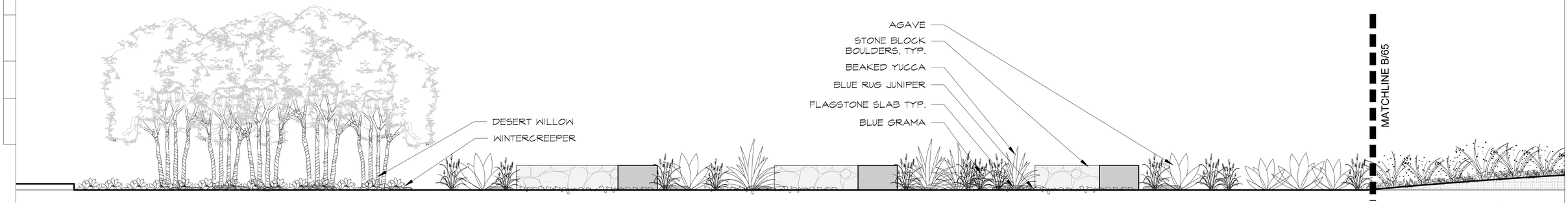
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SCALE: 1" = 20'-0"

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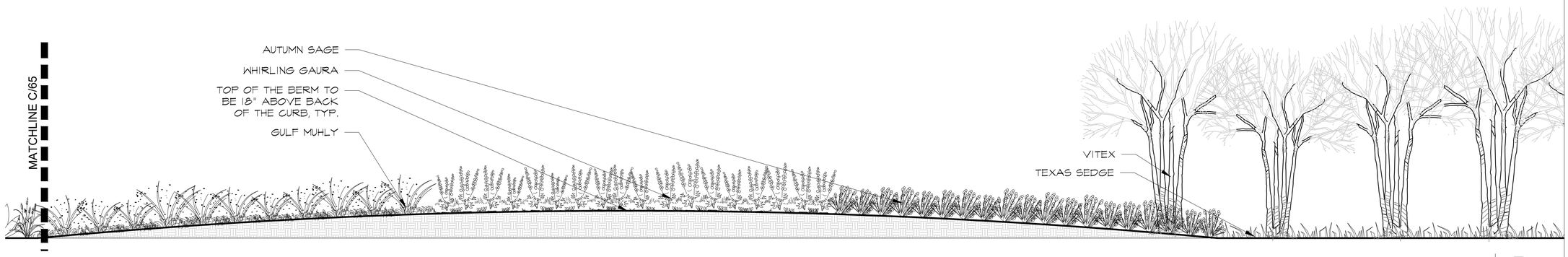
MEDIAN - 10 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	64
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



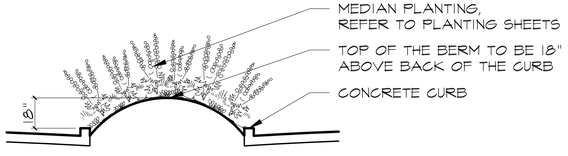
Median -11 North Profile | C

Scale: 1/4"= 1'-0"



Median - 11 South Profile | B

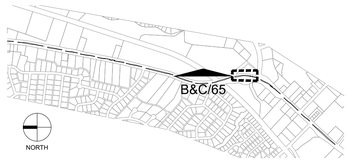
Scale: 1/4"= 1'-0"



Median - 11 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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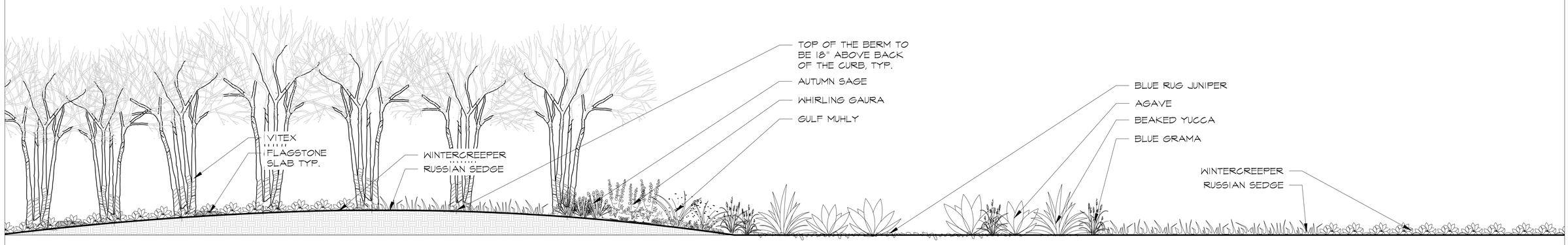
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SCALE: 1" = 20'-0"

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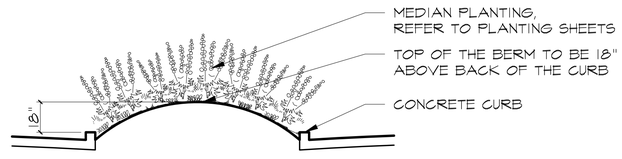
MEDIAN - 11 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	65
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



Add Alt Median - 3 Profile | B

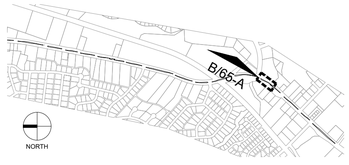
Scale: 1/4"= 1'-0"



Add Alt Median - 3 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

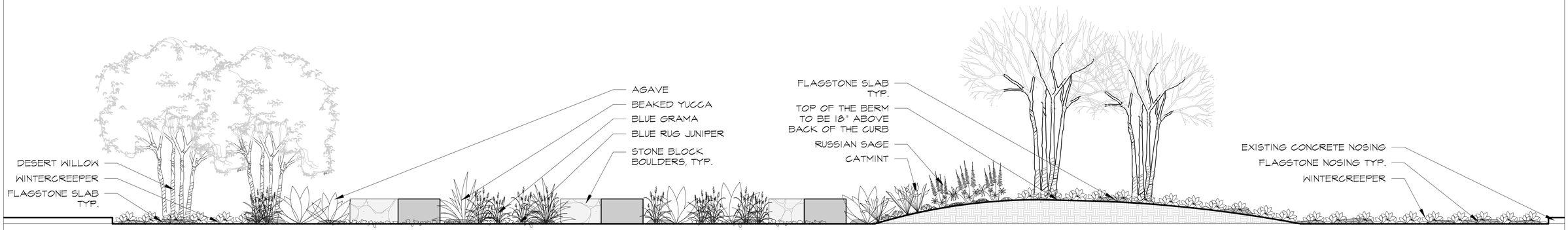
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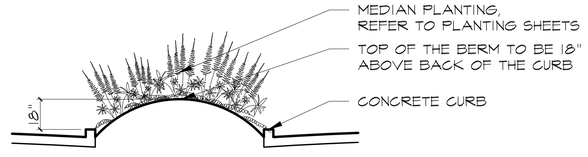
ADD ALT MEDIAN - 3 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	65-A
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



Median - 12 Profile | B

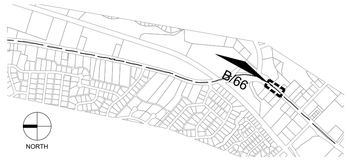
Scale: 1/4"= 1'-0"



Median - 12 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

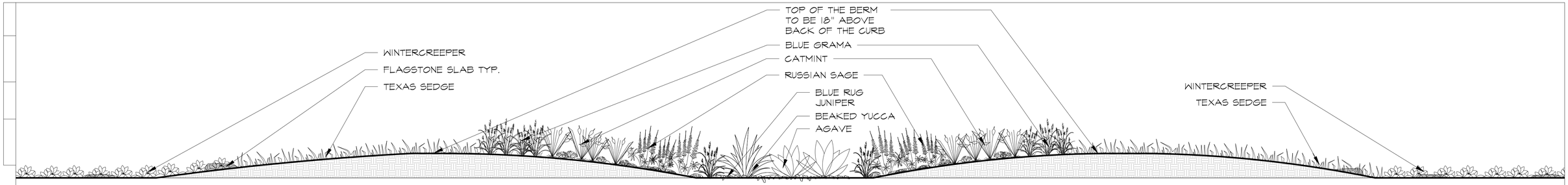
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SCALE: 1" = 20'-0"

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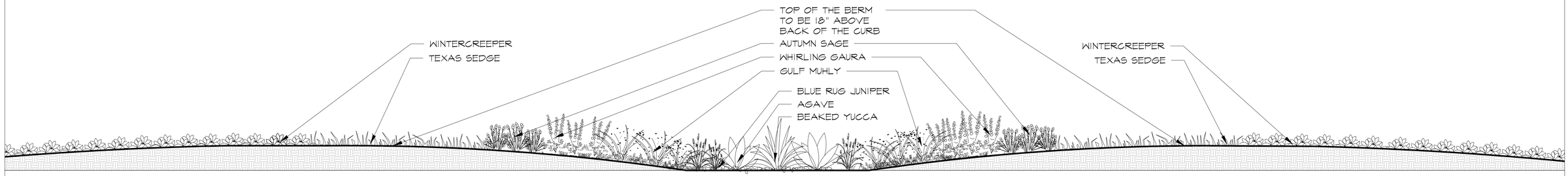
MEDIAN - 12 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	66
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



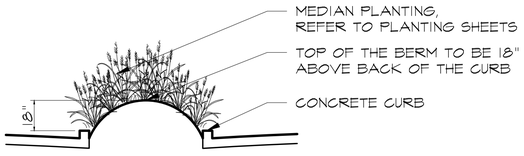
Add Alt Median - 5 Profile | D

Scale: 1/4"= 1'-0"



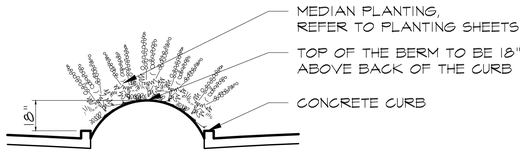
Add Alt Median - 4 Profile | C

Scale: 1/4"= 1'-0"



Add Alt Median - 5 Cross Section | B

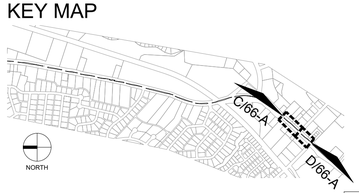
Scale: 1/4"= 1'-0"



Add Alt Median - 4 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

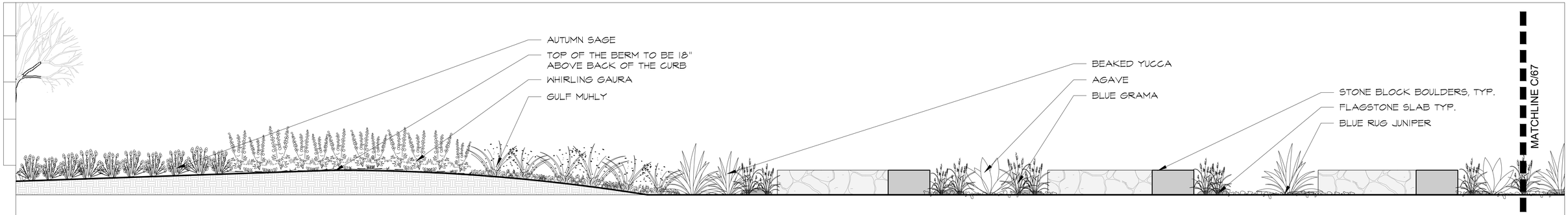
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SCALE: 1" = 20'-0"

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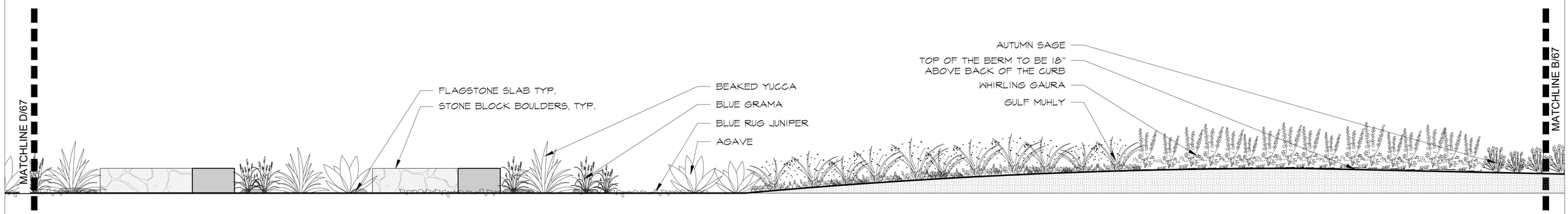
ADD ALT MEDIAN - 4 & 5 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	66-A
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



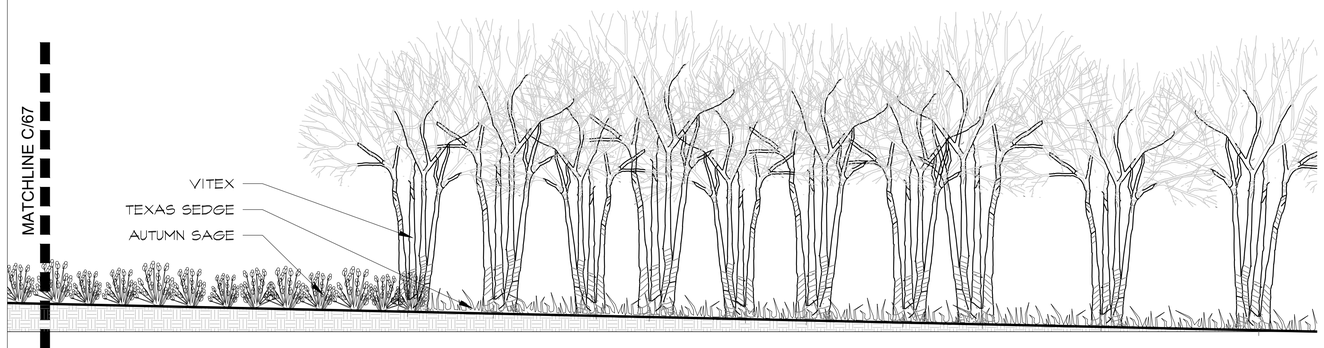
Median - 13 North Profile | D

Scale: 1/4"= 1'-0"



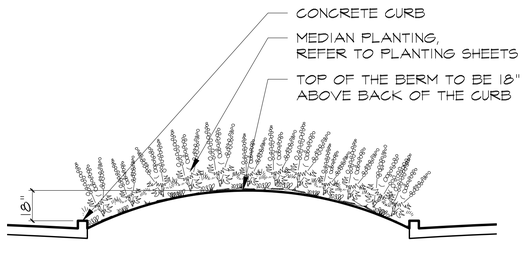
Median - 13 Center Profile | C

Scale: 1/4"= 1'-0"



Median - 13 South Profile | B

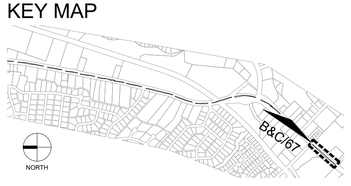
Scale: 1/4"= 1'-0"



Median - 13 Cross Section | A

Scale: 1/4"= 1'-0"

KEY MAP



	Date	Description



06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

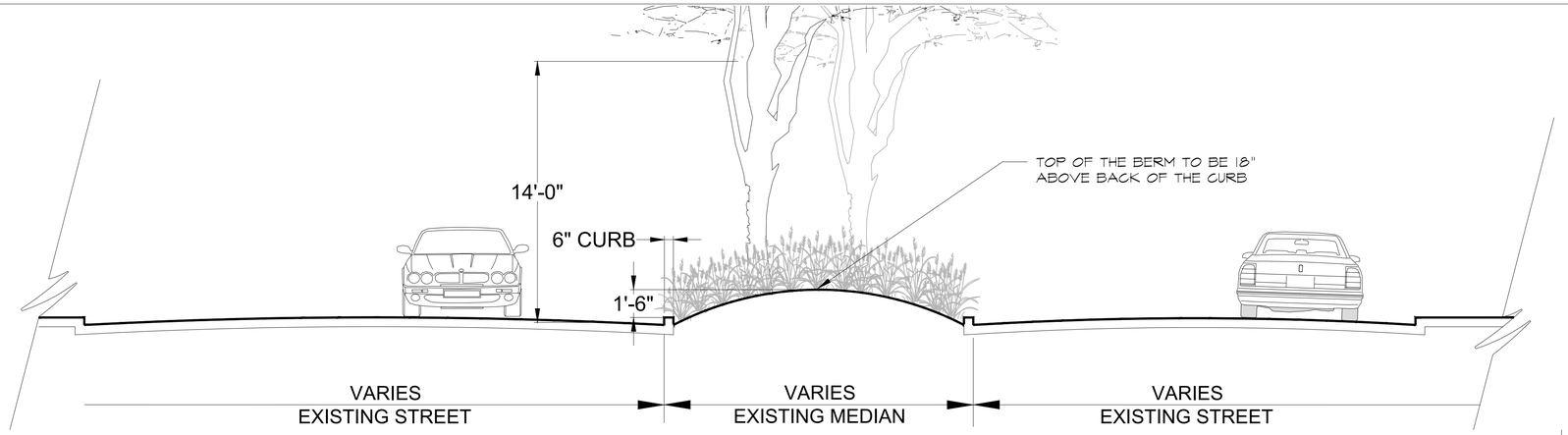
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SCALE: 1" = 20'-0"

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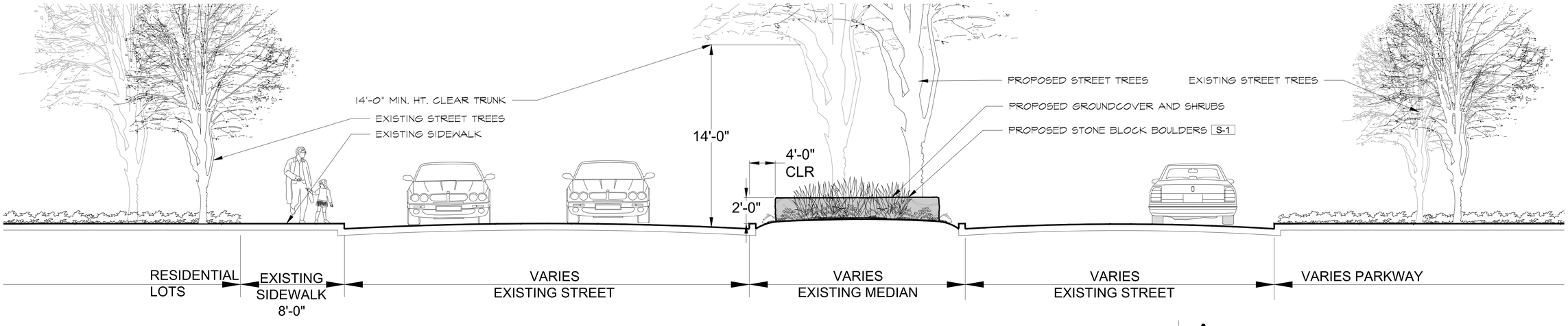
MEDIAN - 13 GRADING

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	67
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



Proposed Median at Ornamental Grass Berm | B

Full Size Scale: 1/4" = 1'-0"
Half Size Scale: 1/8" = 1'-0"



Proposed Median at Gravel Area | A

Full Size Scale: 1/4" = 1'-0"
Half Size Scale: 1/8" = 1'-0"

	Date	Description

REGISTERED LANDSCAPE ARCHITECT
STEVAN R. COWAN
2118
STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

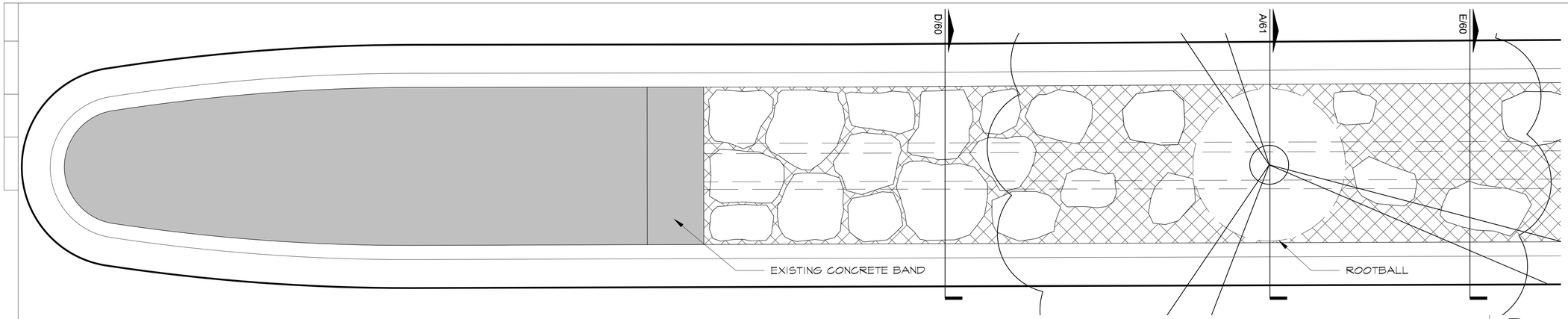
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0 1 2 4 8
Scale: 1/4" = 1'-0"

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MEDIAN CONCEPTUAL SECTIONS

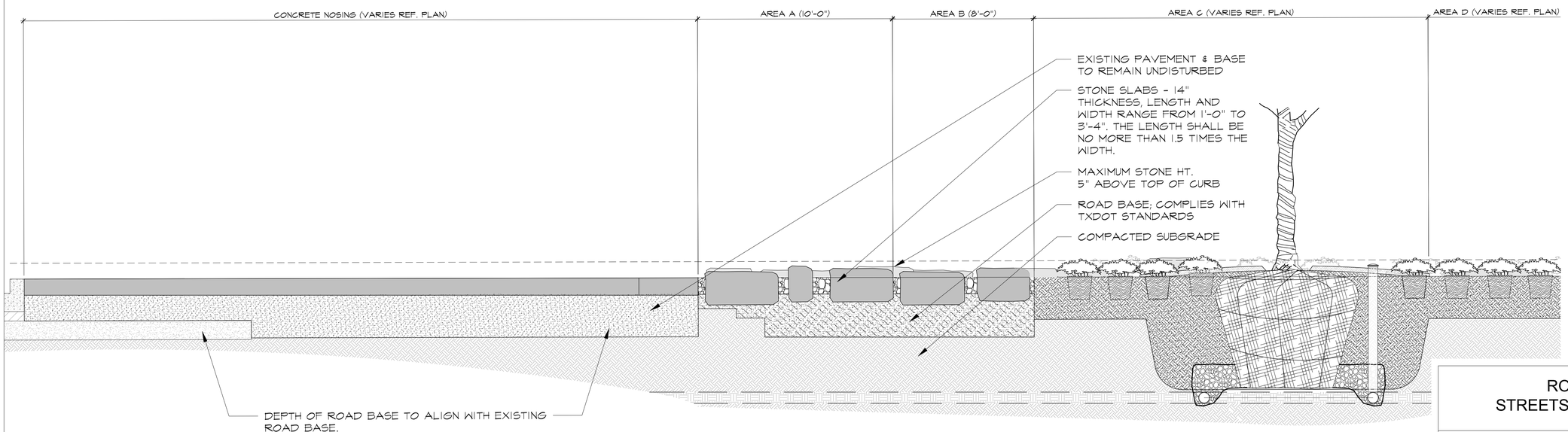
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GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	68
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	



Median Plan | B

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"

ARRANGE STONE SLABS TO GRADUALLY MERGE INTO GRAVEL OR GROUNDCOVER AREA.
1. ARRANGE STONE SLABS TO GRADUALLY "FADE" INTO ADJACENT GRAVEL OR GROUNDCOVER AREAS
2. STONE SLABS - 14" THICKNESS, LENGTH AND WIDTH RANGE FROM 1'-0" TO 3'-4". THE LENGTH SHALL BE NO MORE THAN 1.5 TIMES THE WIDTH.
3. SET NO MORE THAN 3 SLABS TRANSVERSELY ACROSS THE WIDTH OF THE MEDIAN
4. SET ADJACENT SLABS AT DIFFERENT HEIGHTS. SET SLABS BETWEEN 1" AND 5" ABOVE TOP OF CURB. VARY HEIGHT OF ADJACENT SLABS WITHIN A RANGE OF 2" TO 4".
5. AVOID TRIANGULAR AND RECTANGULAR SHAPED SLABS.
6. SET SLABS 2" FROM BACK OF CURB.
7. VARY PLACEMENT OF SLABS HAVING SIMILAR SIZES AND SHAPES.
8. JOINT SPACING BETWEEN SLABS SHALL RANGE FROM 2" TO 8".
9. SET SLABS TO AVOID HAVING 4 COMMON CORNERS.



Median Section | A

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"

AREA A
1. 80% STONE AND 20% GRAVEL
2. JOINT WIDTH VARIES BUT LIMIT IN 2" - 5" RANGE
3. ROAD BASE WITH COMPACTED SUBGRADE BELOW

AREA B
1. 65% STONE AND 35% GRAVEL
2. JOINT WIDTH VARIES BUT LIMIT IN 2" - 7" RANGE
3. ROAD BASE WITH COMPACTED SUBGRADE BELOW

AREA C
1. NO STONE INSIDE TREE ROOT BALL AREA
2. OUTSIDE TREE ROOT BALL AREA , 40% STONE AND 60% GRAVEL
3. JOINT WIDTH VARIES 6" - 10" RANGE
4. STONE SLABS DIRECTLY SET ON ROAD BASE

AREA D
1. 4 - 5 TOTAL PIECES OF STONE SLABS SET ON GRAVEL
2. STONE SLABS DIRECTLY SET ON ROAD BASE

NOTE:
TRUNK OF TREE TO BE LOCATED MIN. 4' FROM FACE OF CURB, SHEETING ONLY REQUIRED WHERE ROOTBALL IS LOCATED LESS THAN 30" FROM BACK OF CURB

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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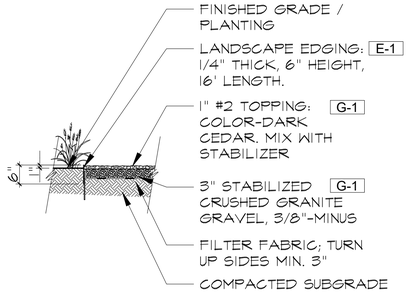
0 1 2 4
Scale: 1/2" = 1'-0"

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MEDIAN DETAIL SECTION

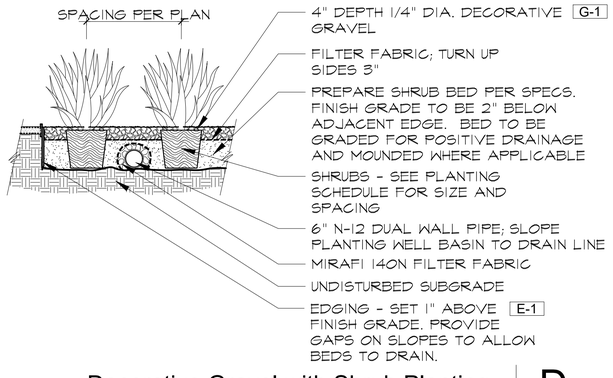
DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	69
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

NOTE:
TRUNK OF TREE TO BE LOCATED MIN. 4'-0" FROM FACE OF CURB, SHEETING ONLY REQUIRED WHERE ROOTBALL IS LOCATED LESS THAN 30" FROM BACK OF CURB



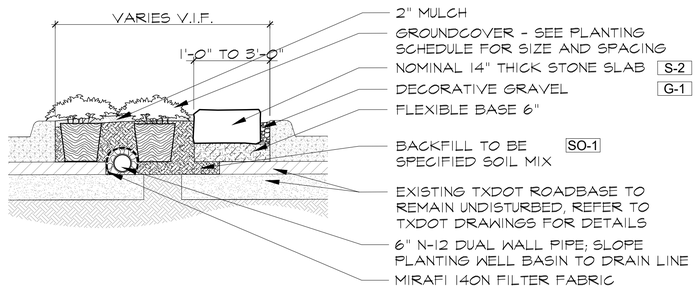
Landscape Edging Detail | E

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"



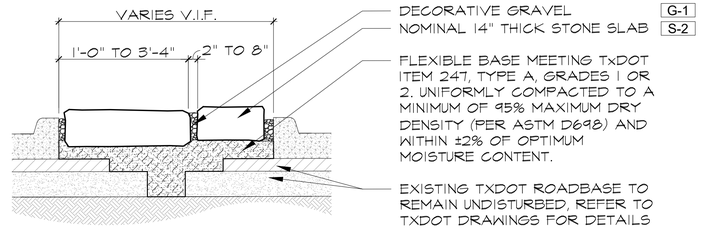
Decorative Gravel with Shrub Planting | D

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"



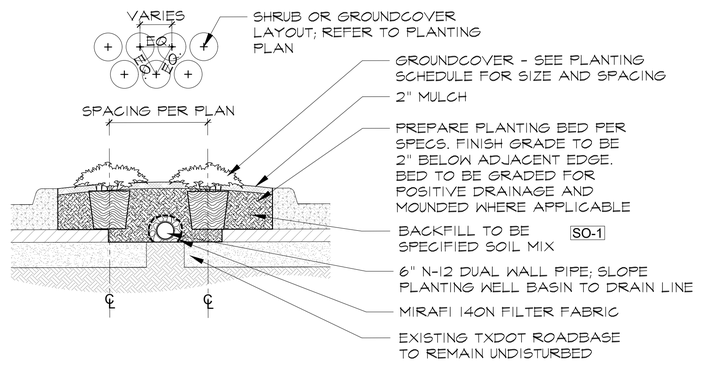
Isolated Flagstone Slab | C

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"



Flagstone Nosing Paving | B

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"



Median Planting Detail | A

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"

	Date	Description

REGISTERED LANDSCAPE ARCHITECT
STAN R. COWAN
2118
STATE OF TEXAS

06/12/2026
Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

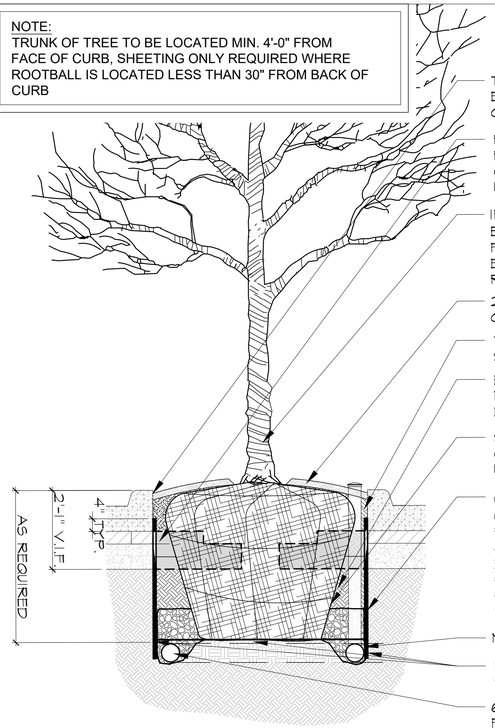
0 1 2 4
Scale: 1/2" = 1'-0"

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MEDIAN PLANTING DETAILS

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	70
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

NOTE:
TRUNK OF TREE TO BE LOCATED MIN. 4'-0" FROM FACE OF CURB, SHEETING ONLY REQUIRED WHERE ROOTBALL IS LOCATED LESS THAN 30" FROM BACK OF CURB



TREE SAUCER SHALL BE GRADED FROM EDGE OF TREE PIT OUTWARD TO BACK OF CURB TO GET A SMOOTH TRANSITION

REMOVE ROAD BASE ONLY TO THE EXTENT REQUIRED FOR INSTALLATION OF SHEETING, CONTRACTOR TO ENSURE BASE LAYERS UNDER ROAD REMAIN UNDISTURBED

IF B&B GROWN TREE, REMOVE TOP 1/3 OF BINDING (WIRE OR TWINE/ROPE) AND BURLAP FROM ROOT BALL, ROOT FLARE TO BE EXPOSED AND GRIDDLING ROOTS TO BE REMOVED

2" MULCH; TO BE 6" CLEAR FROM BASE OF ROOT FLARE

TOP 1/3 OF BACKFILL TO BE SPECIFIED SOIL MIX SO-1

BOTTOM 2/3 OF BACKFILL TO BE 100% NATIVE SOIL, UNLESS OTHERWISE DETERMINED BY SOIL ANALYSIS SO-1

SCARIFY SIDES & BOTTOM OF PIT, CONTRACTOR TO ENSURE BASE LAYERS UNDER ROAD REMAIN UNDISTURBED

(2) GALVANIZED METAL DECK SIDE BY SIDE, (1.0C20) X 3'-0" WIDE COAT CUT ENDS W/ZINC PRIMER (TYP.), DEPTH OF PANEL VARIES, SET 4" ABOVE EXISTING ASPHALT SUB BASE AND EXTEND TO BOTTOM OF ROOTBALL AS REQUIRED. ANCHOR PANEL WITH (3) HOT ROLLED STUDDED T-POSTS, REFER TO PLAN TO LOCATION

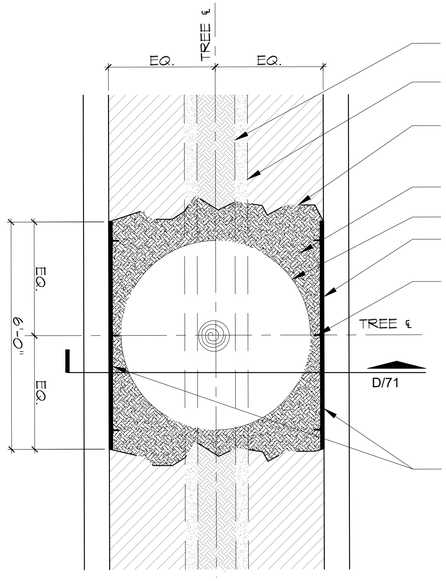
MIRAFI 140N FILTER FABRIC

EXTEND TO BOTTOM OF ROOTBALL AS REQUIRED

6" ADS N-12 DUAL WALL PIPE WITH FILTER FABRIC SOCK SURROUNDING FULL CIRCUMFERENCE OF ROOT BALL; SLOPE TO BE NO LESS THAN 1% TOWARD SUMP LOCATION; PROVIDE CONNECTIONS TO DRAINAGE SYSTEM AND 4" VERTICAL OBSERVATION TUBE

Median Tree Planting Plan | D

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"



LIMIT OF EXISTING STABILIZED BASE, V.I.F.

LIMIT OF EXISTING ASPHALT BASE, V.I.F.

REMOVE ROAD BASE ONLY TO THE EXTENT REQUIRED FOR INSTALLATION OF ROOTBALL

AMENDED SOIL

ROOTBALL

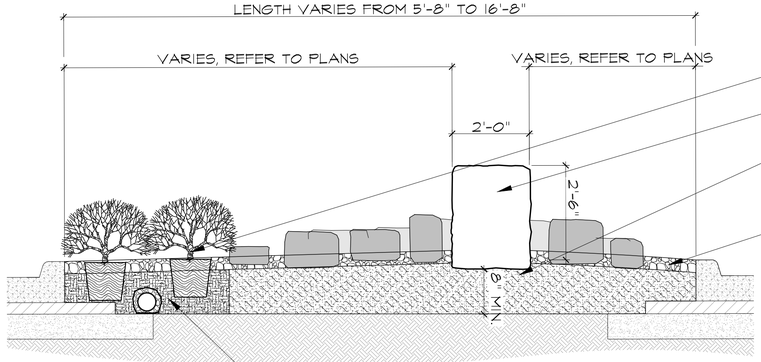
EXISTING CURB TO REMAIN UNDISTURBED

(3) HOT ROLLED STUDDED T-POSTS, REFER TO PLAN TO LOCATION

(2) GALVANIZED METAL DECK SIDE BY SIDE, (1.0C20) X 3'-0" WIDE COAT CUT ENDS W/ZINC PRIMER (TYP.), REFER TO LANDSCAPE PLANS FOR LOCATION

Median Tree Planting Detail | C

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"



SHRUBS - SEE PLANTING SCHEDULE FOR SIZE AND SPACING

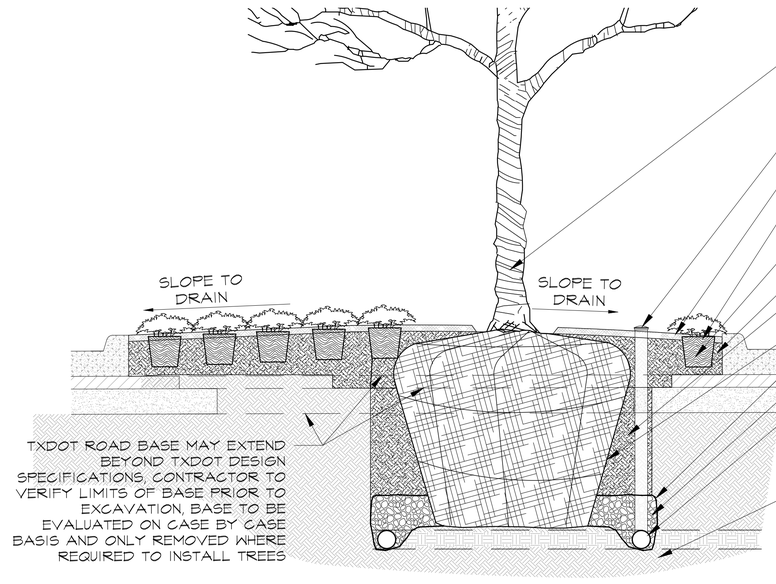
STONE BLOCK BOULDERS (TYP.); LENGTH VARIES REFER TO ENLARGE WALL LAYOUTS S-1

FLEXIBLE BASE MEETING TxDOT ITEM 247, TYPE A, GRADES 1 OR 2, UNIFORMLY COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY (PER ASTM D698) AND WITHIN ±2% OF OPTIMUM MOISTURE CONTENT.

4" DEPTH 1/4" DIA. DECORATIVE GRAVEL

Wide Median Stone Planter Detail | B

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"



IF B&B GROWN TREE, REMOVE TOP 1/3 OF BINDING (WIRE OR TWINE/ROPE) AND BURLAP FROM ROOT BALL, ROOT FLARE TO BE EXPOSED AND GRIDDLING ROOTS TO BE REMOVED

4" OBSERVATION PIPE W/ PAINTED/SLOTTED DRAIN CAP (EARTH TONE)

2" MULCH; TO BE 6" CLEAR FROM BASE OF ROOT FLARE

PREPARE PLANTING BED PER SPECS. FINISH GRADE TO BE 2" BELOW ADJACENT EDGE. BED TO BE GRADED FOR POSITIVE DRAINAGE AND MOUNDED WHERE APPLICABLE

GROUNDCOVER - SEE PLANTING SCHEDULE FOR SIZE AND SPACING

TOP 1/3 OF BACKFILL TO BE SPECIFIED SOIL MIX SO-1

BOTTOM 2/3 OF BACKFILL TO BE 100% NATIVE SOIL, UNLESS OTHERWISE DETERMINED BY SOIL ANALYSIS

SCARIFY SIDES & BOTTOM OF PIT

MIRAFI 140N FILTER FABRIC

COMPACTED GRAVEL

6" ADS N-12 DUAL WALL PIPE WITH FILTER FABRIC SOCK SURROUNDING FULL CIRCUMFERENCE OF ROOT BALL; SLOPE TO BE NO LESS THAN 1% TOWARD SUMP LOCATION; PROVIDE CONNECTIONS TO DRAINAGE SYSTEM AND 4" VERTICAL OBSERVATION TUBE

UNDISTURBED SUB-GRADE

Wide Median Stone Block And Planting Detail | A

Full Size Scale: 1/2" = 1'-0"
Half Size Scale: 1/4" = 1'-0"

	Date	Description

REGISTERED LANDSCAPE ARCHITECT
STAN R. COWAN
2118
STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

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Scale: 1/2" = 1'-0"

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MEDIAN PLANTING DETAILS

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	71
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

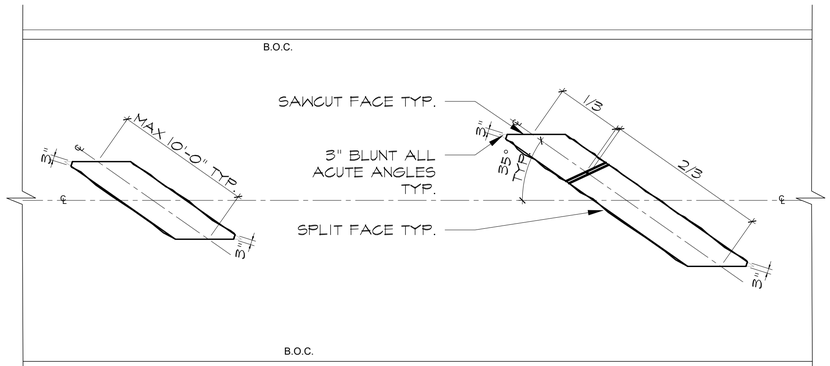
NOTE:
STONE BLOCK BOULDER TO BE LOCATED MIN. 4'-0" FROM FACE OF CURB.





Stone Block Boulders Precedent | B

Full Size Scale: N.T.S.



Typical Stone Block Boulders Layout Plan | A

Full Size Scale: 1/4" = 1'-0"
Half Size Scale: 1/8" = 1'-0"

	Date	Description



06/12/2026

Signature of Registrant & Date

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STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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SCALE: 1" = 20'-0"

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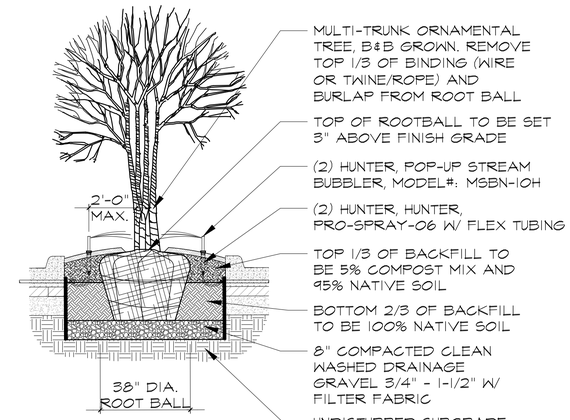
STONE BLOCK BOULDERS DETAILS

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	72
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

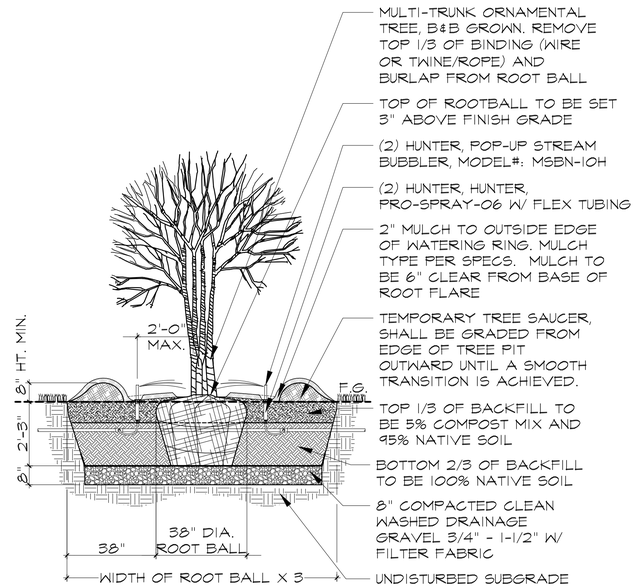
TREE SIZE:	ROOT BALL DIA.:	ROOT BALL DEPTH:	BOOT TYPE:	NOZZLE TYPE:	QTY	DIST. TO TRUNK
ORNAMENTAL	< 40" DIA.	30" DEPTH	HUNTER: Pro-Spray®, 6"	HUNTER: MSBN-10H	2	24" MAX.

Irrigation Bubbler Schedule | B

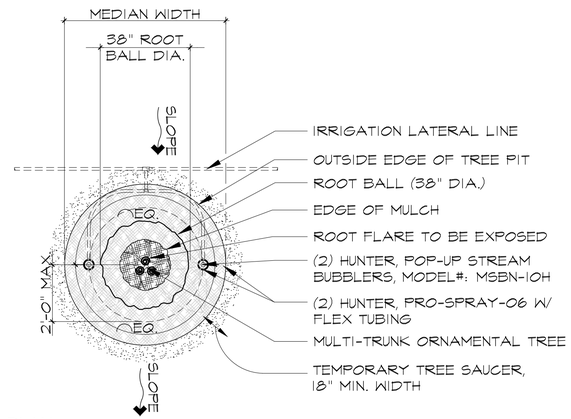
Scale: N.T.S.



SECTION



SECTION

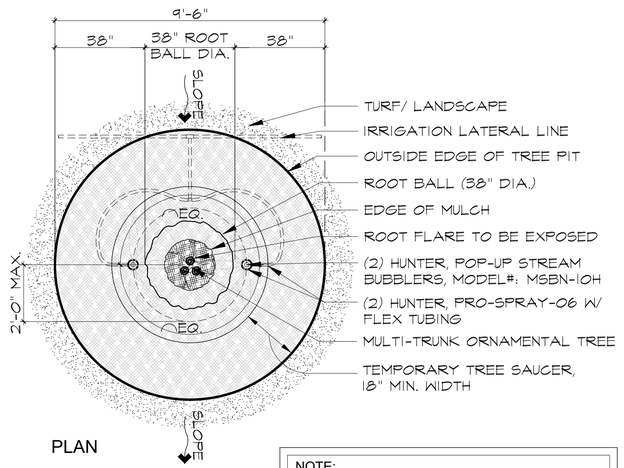


PLAN

NOTE:
LAYOUT OF POP-UP STREAM BUBBLERS BASED ON SLOPE OF FINISH GRADE. PLACEMENT CONTINGENT ON ALIGNMENT WITH LOW POINT

4" Cal. Tree in Narrow Median Irrigation Detail | B

Scale: 3/8"=1'-0"



PLAN

NOTE:
LAYOUT OF POP-UP STREAM BUBBLERS BASED ON SLOPE OF FINISH GRADE. PLACEMENT CONTINGENT ON ALIGNMENT WITH LOW POINT

4" Cal. Tree in Wide Median Irrigation Detail | A

Scale: 3/8"=1'-0"

	Date	Description

REGISTERED LANDSCAPE ARCHITECT
RYAN R. COWAN
2118
STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 1 2 4
Scale: 3/8" = 1'-0"

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TREE IRRIGATION DETAILS

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	73
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN I PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
V	3	DESERT WILLOW / CHILOPSIS LINEARIS	8' O.C.
C	3	VITEX - LAVENDER	8' O.C.
P	2	VITEX - PINK	8' O.C.
W	3	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
	90	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
	81	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
	200	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
	469	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
	11	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
	24	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	2405	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
	159	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	1216	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1189	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

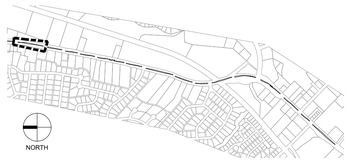
IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Landscape Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT BRYAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

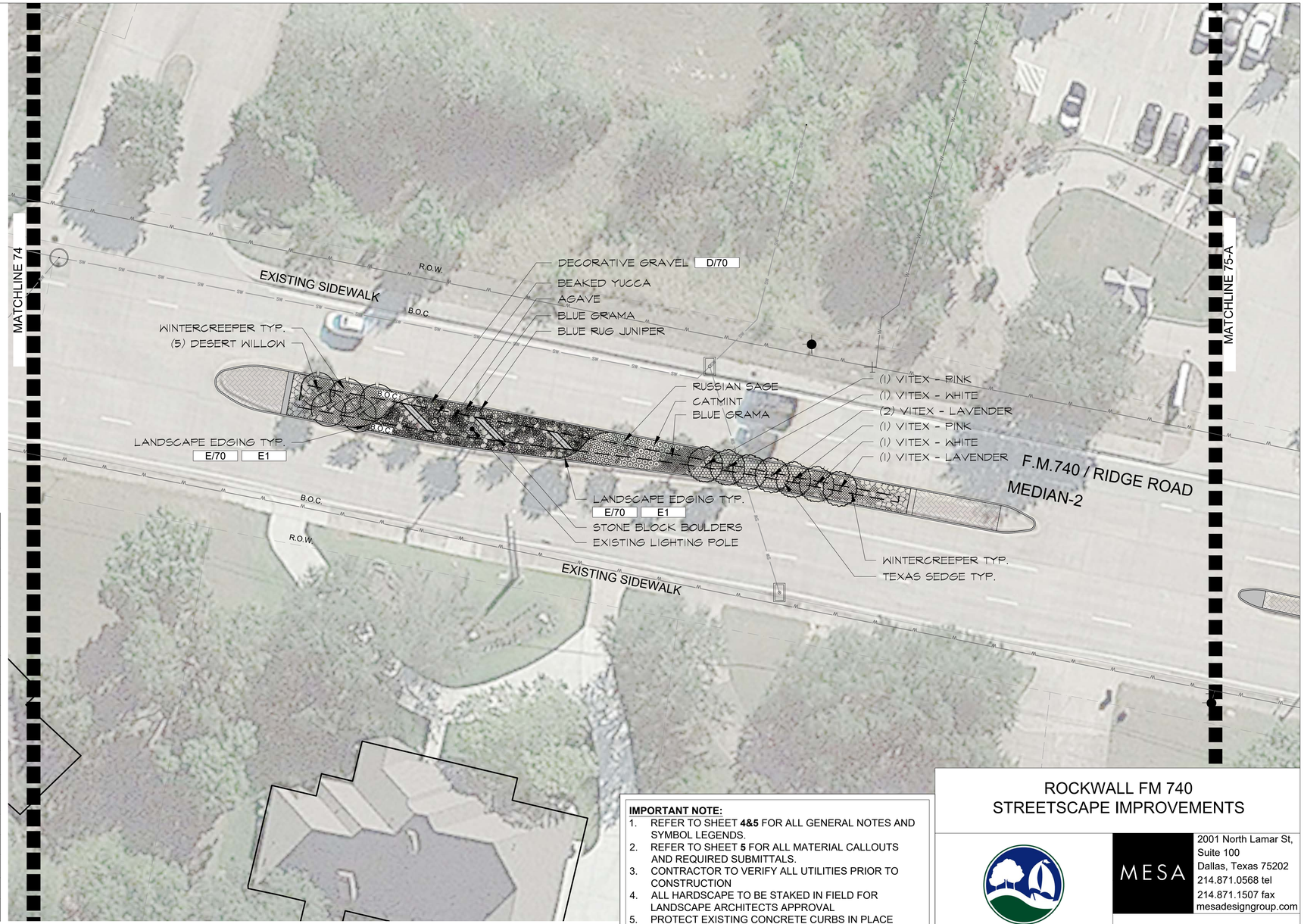
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2001 North Lamar St,
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Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
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SCALE: 1" = 20'-0"

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MEDIAN - 1 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
CHECK	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	74
	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN 2 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
V	5	DESERT WILLOW / CHILOPSIS LINEARIS	8' O.C.
P	3	VITEX - LAVENDER	8' O.C.
W	2	VITEX - PINK	8' O.C.
W	2	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
+	180	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
△	94	CATMINT / NEPETA X FAASSENII	18" O.C.
○	36	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA	24" O.C.
•	6	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
✳	13	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	1684	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
	89	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	545	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1139	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

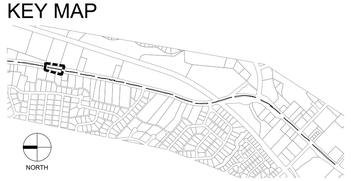
IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Landscape Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
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Dallas, Texas 75202
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SCALE: 1" = 20'-0"

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MEDIAN - 2 LANDSCAPE PLAN

	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
DESIGN	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	75
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



ADD ALT MEDIANS 1 & 2 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
(C)	5	VITEX - LAVENDER	8' O.C.
(P)	3	VITEX - PINK	8' O.C.
(W)	4	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
+	46	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
□	59	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
⊕	92	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
⊠	196	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
•	4	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
✱	6	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	3042	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
✳	52	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	931	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	2111	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

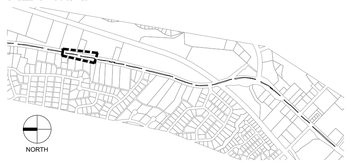
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Landscape Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

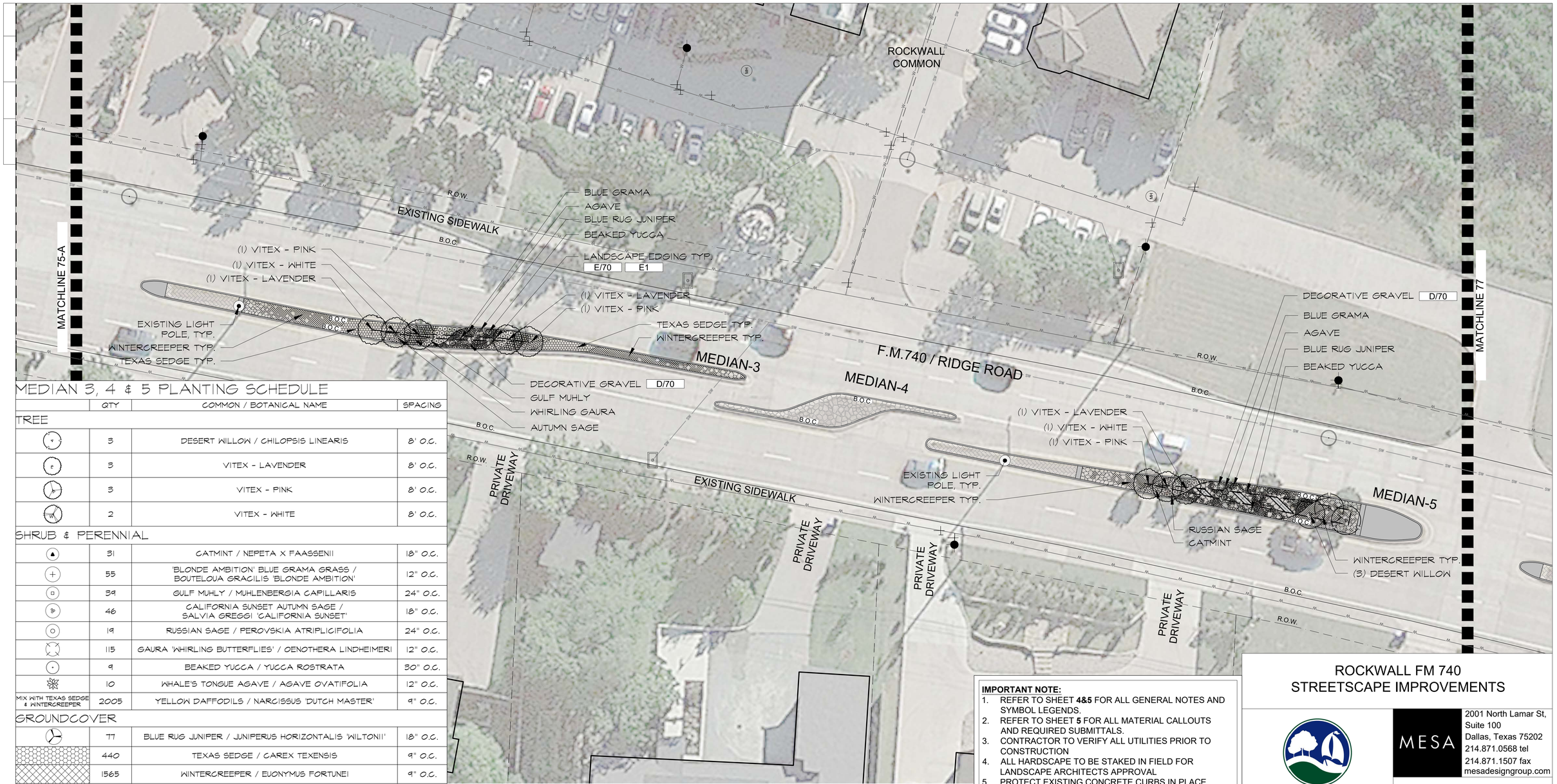
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Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
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SCALE: 1" = 20'-0"

Texas Department of Transportation
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ADD ALT MEDIAN - 1&2 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	75-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN 3, 4 & 5 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
V	3	DESERT WILLOW / CHILOPSIS LINEARIS	8' O.C.
C	3	VITEX - LAVENDER	8' O.C.
P	3	VITEX - PINK	8' O.C.
W	2	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
▲	31	CATMINT / NEPETA X FAASSENII	18" O.C.
+	55	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
□	39	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
❋	46	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
○	19	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA	24" O.C.
⊗	115	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
⊙	9	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
✱	10	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	2005	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
	77	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	440	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1565	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

IMPORTANT NOTE:

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LEGEND:

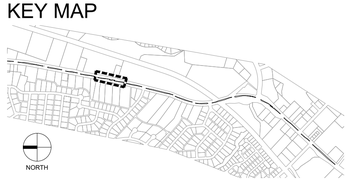
- TRAFFIC LIGHT
- STREET LIGHT POLE
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- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
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- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Landscape Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2116 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

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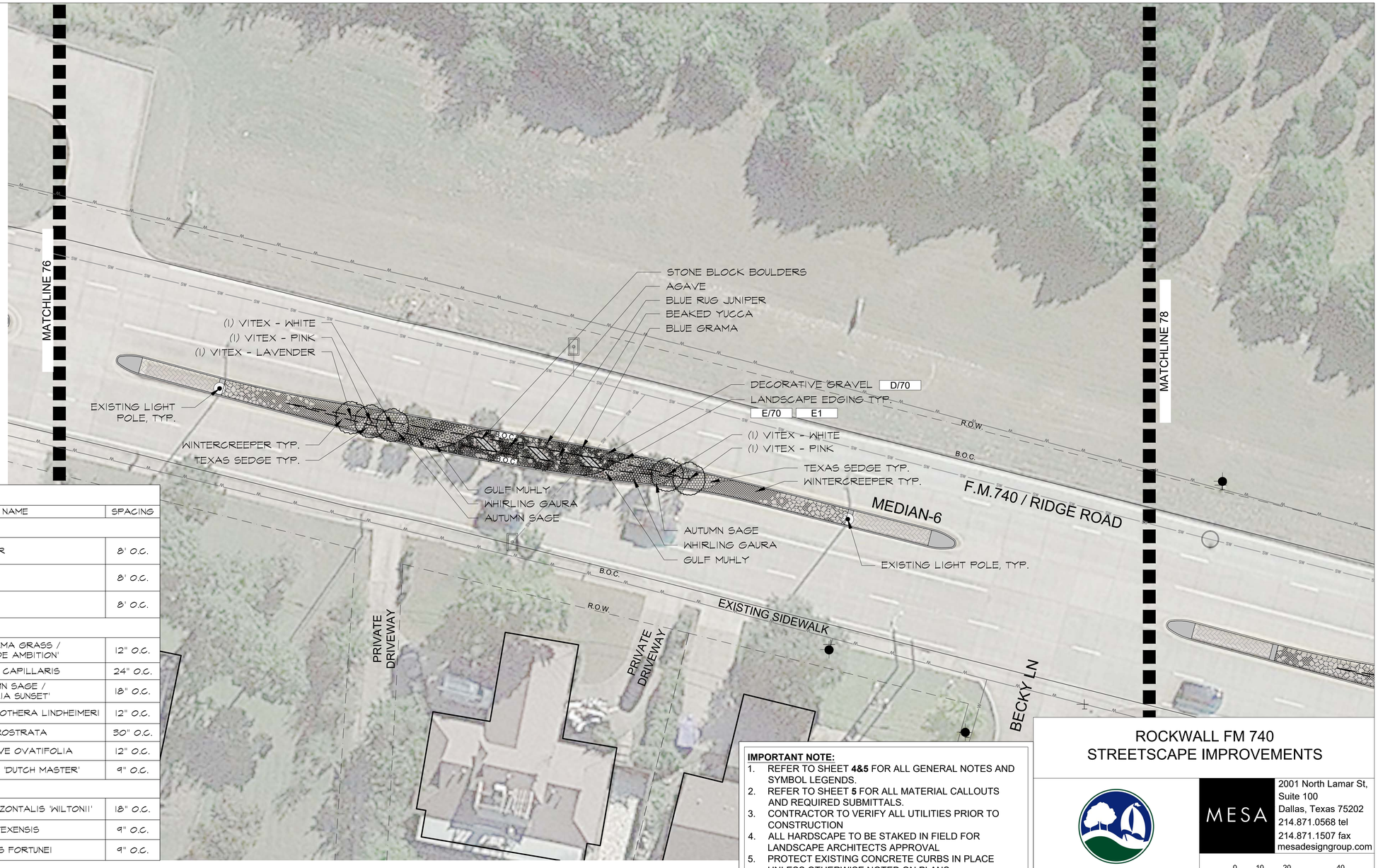
SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 3, 4 & 5 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	76
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN 6 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
	1	VITEX - LAVENDER	8' O.C.
	2	VITEX - PINK	8' O.C.
	2	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
	42	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
	60	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
	77	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
	168	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
	6	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
	10	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	1497	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
	65	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	422	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1075	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

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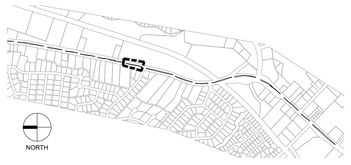
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- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
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- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Landscape Plan A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT
SYLVAN R. COWAN
2118
STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

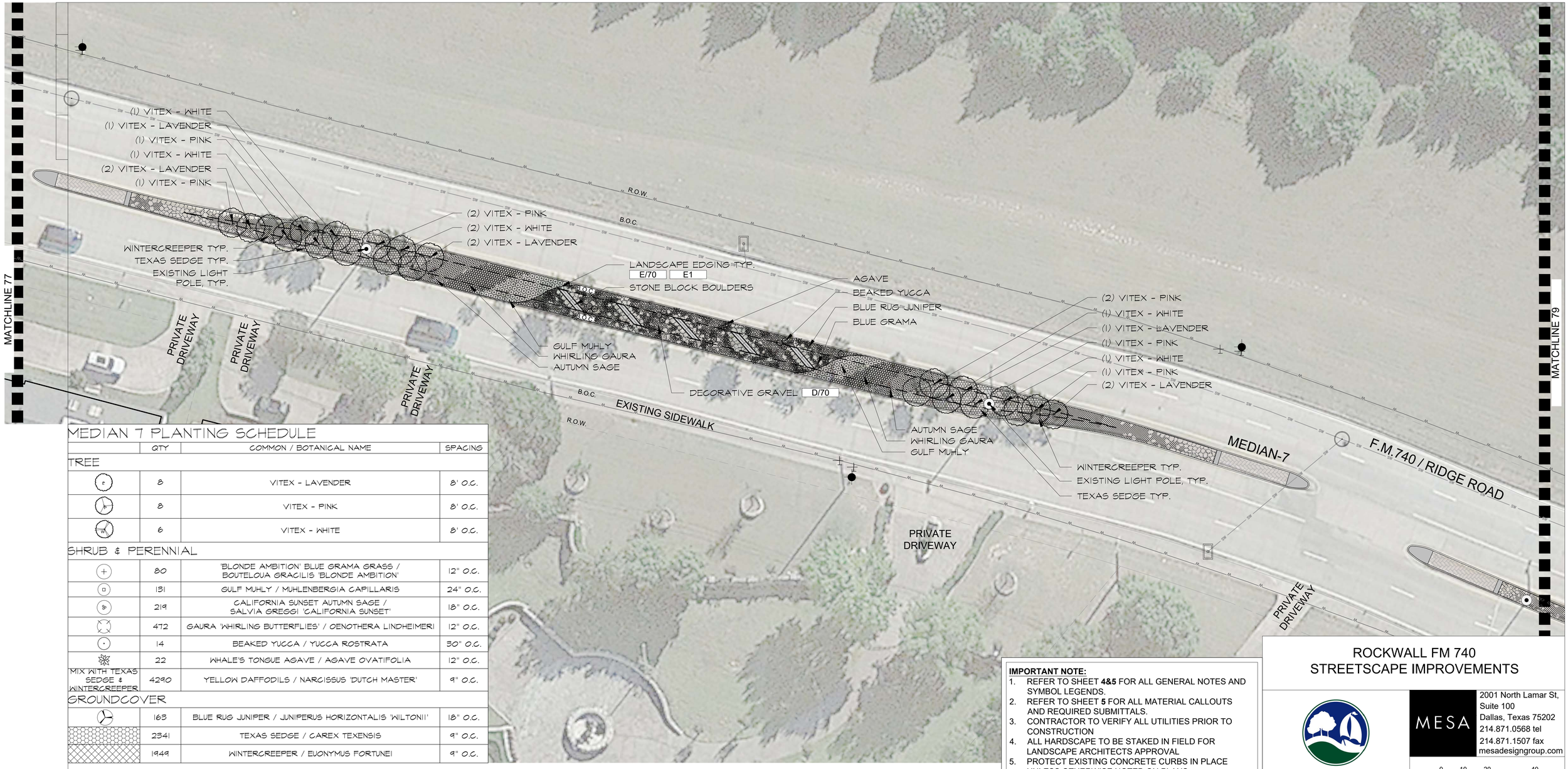
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214.871.1507 fax
mesadesigngroup.com

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SCALE: 1" = 20'-0"

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MEDIAN - 6 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	77
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN 7 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
	8	VITEX - LAVENDER	8' O.C.
	8	VITEX - PINK	8' O.C.
	6	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
	80	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
	131	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
	219	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
	472	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
	14	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
	22	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	4290	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
	163	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	2341	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1949	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

IMPORTANT NOTE:

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3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
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- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Landscape Plan | A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COMAN 2119 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

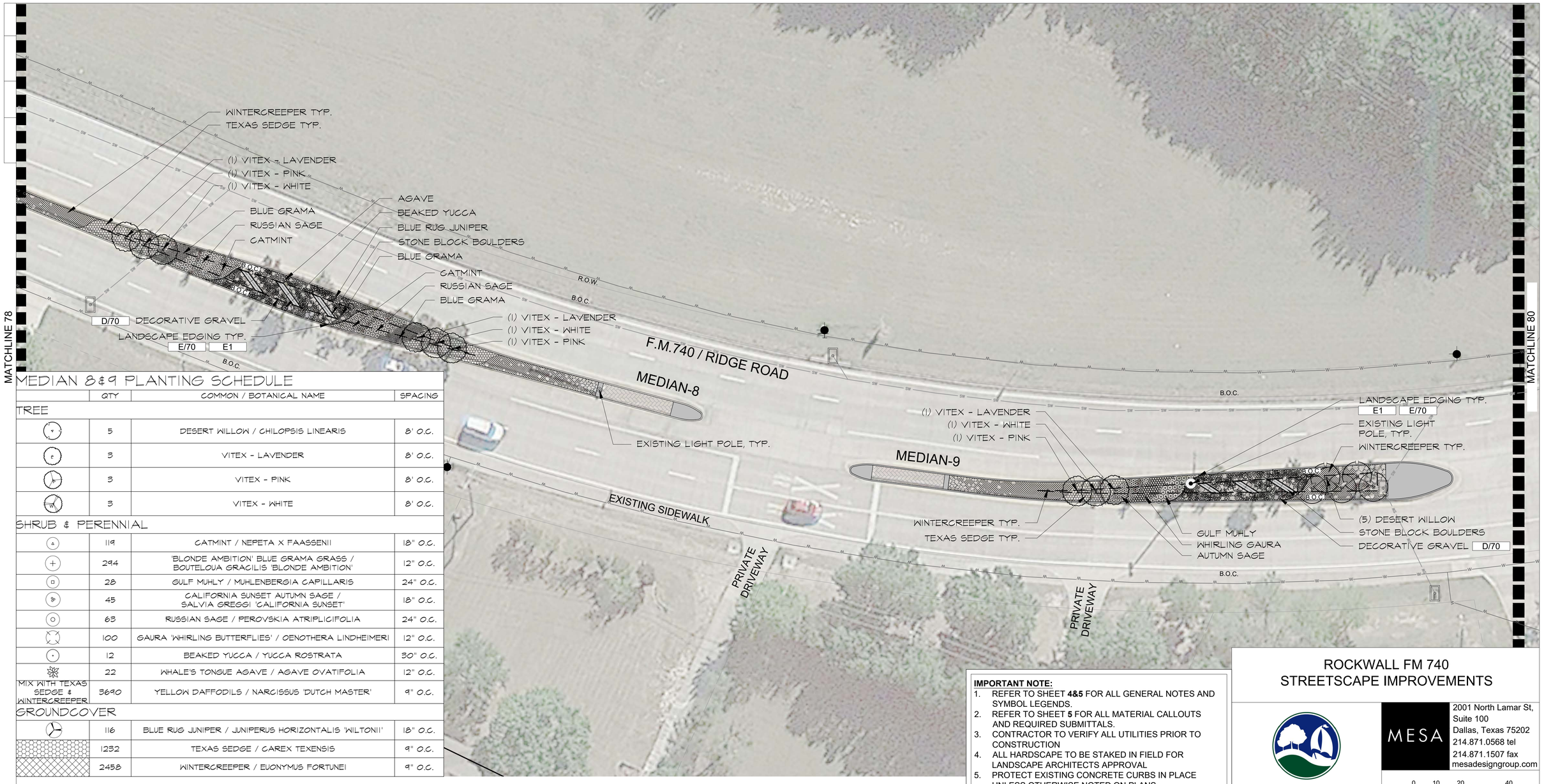
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MEDIAN - 7 LANDSCAPE PLAN

	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
DESIGN	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	78
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN 8&9 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
V	5	DESERT WILLOW / CHILOPSIS LINEARIS	8' O.C.
E	3	VITEX - LAVENDER	8' O.C.
P	3	VITEX - PINK	8' O.C.
W	3	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
A	119	CATMINT / NEPETA X FAASSENII	18" O.C.
+	294	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
M	28	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
SP	45	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
O	63	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA	24" O.C.
	100	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
	12	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
	22	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	3690	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
	116	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	1232	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	2458	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

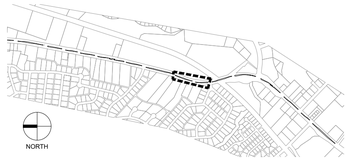
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LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
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- TYPE 1 ROCK FILTER DAM

KEY MAP



Landscape Plan | A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COMAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

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ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

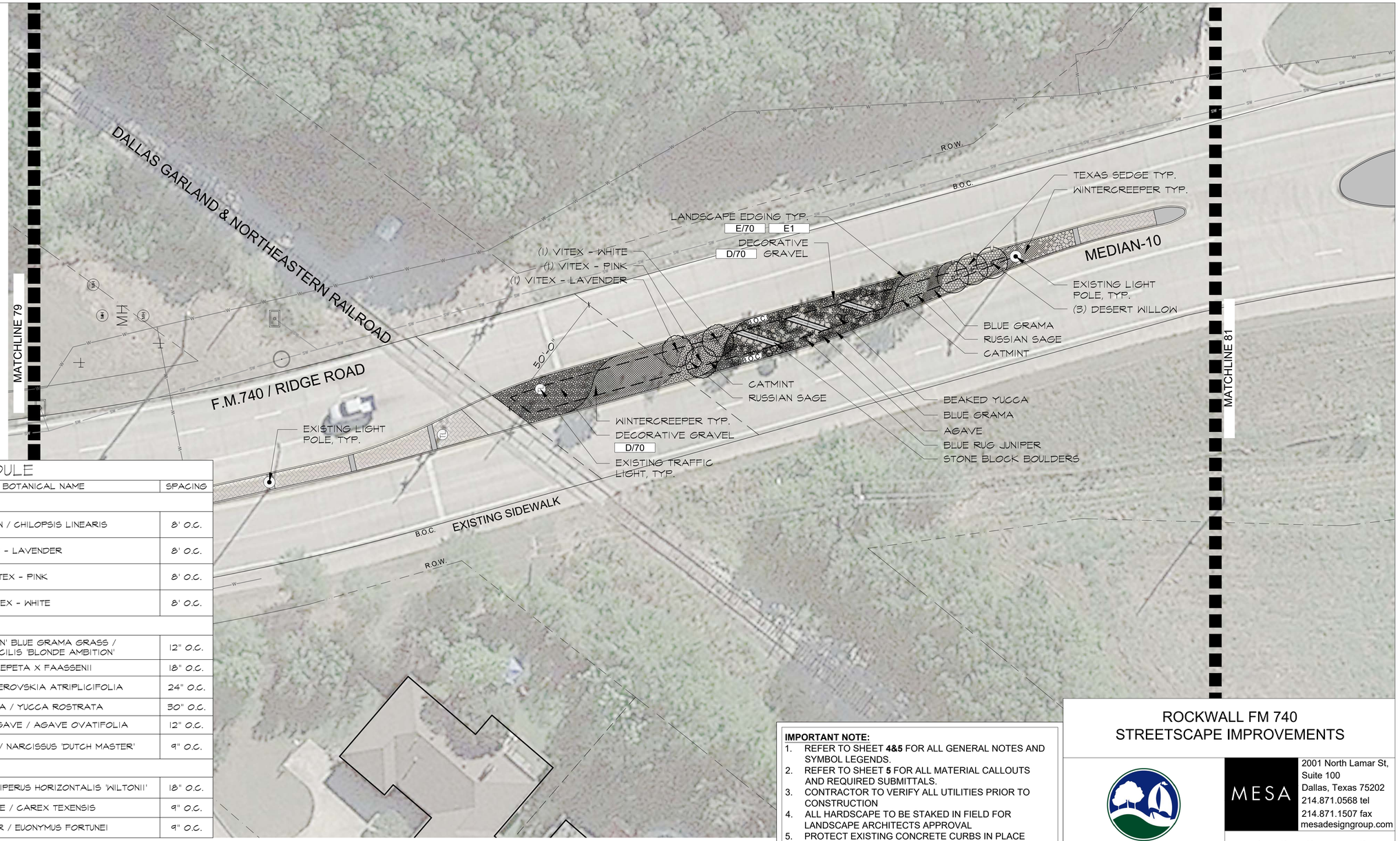
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Dallas, Texas 75202
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SCALE: 1" = 20'-0"

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MEDIAN - 8&9 LANDSCAPE PLAN

	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
DESIGN	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	79
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN 10 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
	3	DESERT WILLOW / CHILOPSIS LINEARIS	8' O.C.
	1	VITEX - LAVENDER	8' O.C.
	1	VITEX - PINK	8' O.C.
	1	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
	139	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
	107	CATMINT / NEPETA X FAASSENII	18" O.C.
	67	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA	24" O.C.
	7	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
	13	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	1749	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
	99	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	384	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1365	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

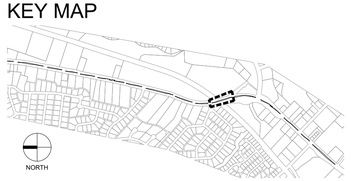
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LEGEND:

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- TYPE 1 ROCK FILTER DAM

KEY MAP



Landscape Plan | A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

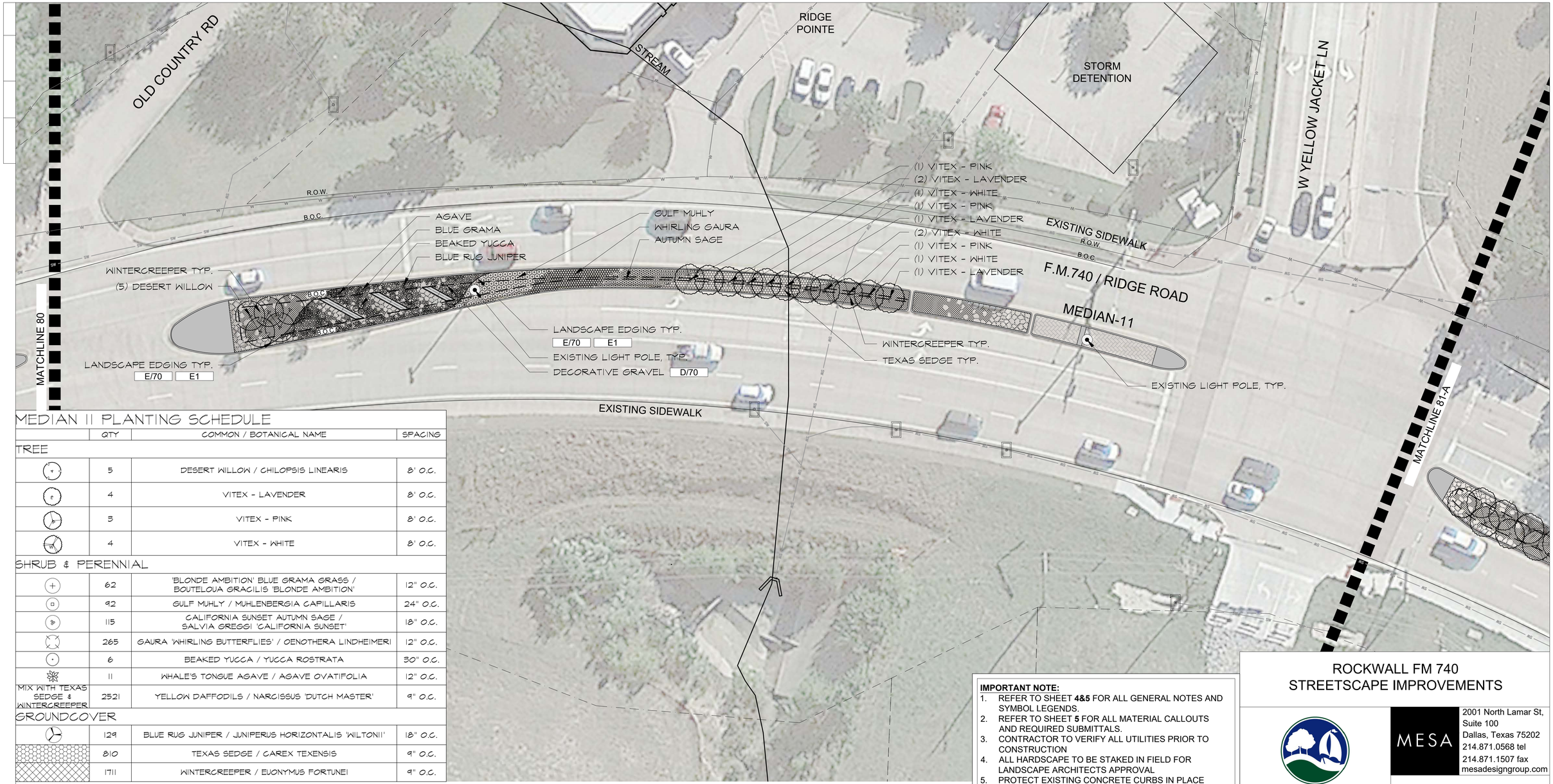
MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

Texas Department of Transportation
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MEDIAN - 10 LANDSCAPE PLAN

	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
DESIGN	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	80
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN II PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
	5	DESERT WILLOW / CHILOPSIS LINEARIS	8' O.C.
	4	VITEX - LAVENDER	8' O.C.
	3	VITEX - PINK	8' O.C.
	4	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
	62	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
	92	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
	115	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
	265	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
	6	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
	11	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	2521	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
	129	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	810	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1711	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

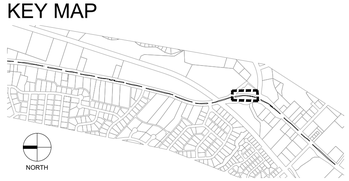
IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
- EXISTING STAMPED CONCRETE TO BE REMOVED
- TEMPORARY SEDIMENT CONTROL FENCE
- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Landscape Plan A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2116 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

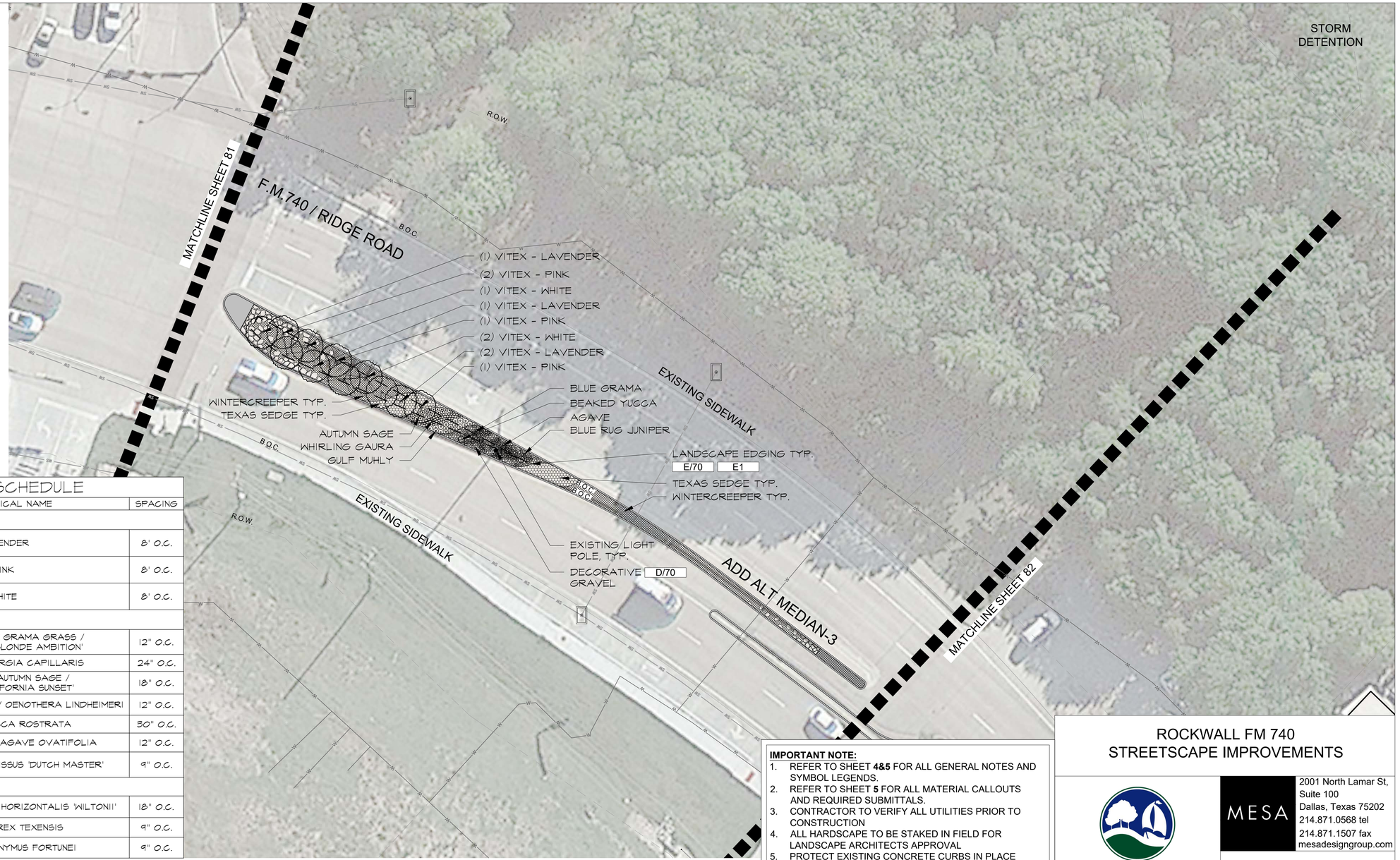
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Dallas, Texas 75202
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SCALE: 1" = 20'-0"

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MEDIAN - 11 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	81
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



ADD ALT MEDIAN 3 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
(c)	4	VITEX - LAVENDER	8' O.C.
(p)	4	VITEX - PINK	8' O.C.
(w)	3	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
+	25	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
□	20	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
(sg)	28	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
⊗	54	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
·	2	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
✳	5	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	2293	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
(j)	34	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	433	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1860	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

IMPORTANT NOTE:

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2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

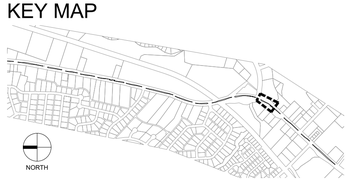
- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
- EXISTING INFILL ACCENT STAMPED CONCRETE
- EXISTING CONCRETE ACCENT BAND
- EXISTING PLANTING AREA TO BE REMOVED
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- EROSION CONTROL LOG AT CURB CUT
- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

Landscape Plan | A

Scale - 1"= 20'-0"

NORTH

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St, Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

0 10 20 40
SCALE: 1" = 20'-0"

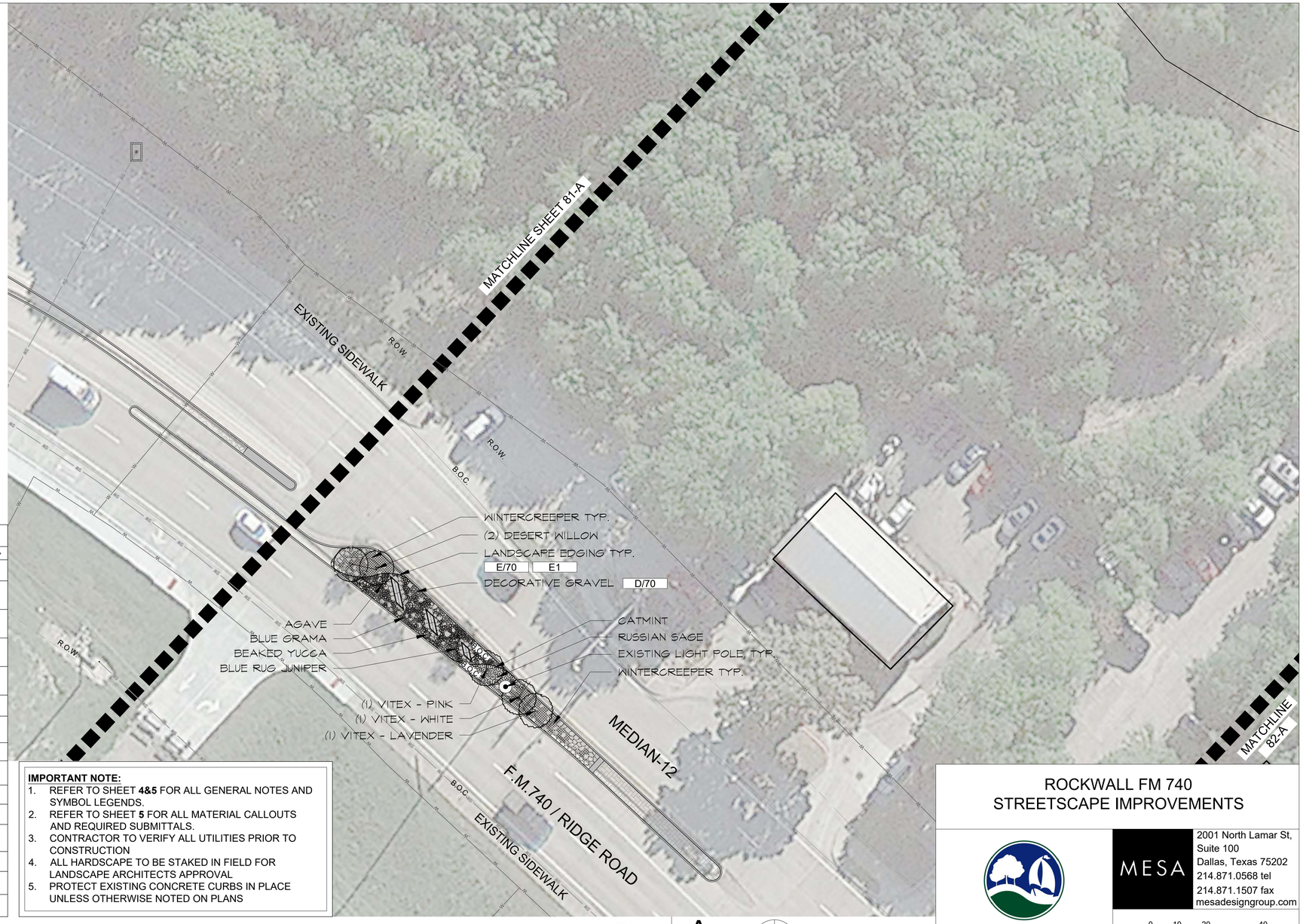
Texas Department of Transportation
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ADD ALT MEDIAN - 3 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	81-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

MEDIAN 12 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
V	2	DESERT WILLOW / CHILOPSIS LINEARIS	8' O.C.
P	1	VITEX - LAVENDER	8' O.C.
P	1	VITEX - PINK	8' O.C.
W	1	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
+	52	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
△	27	CATMINT / NEPETA X FAASSENII	18" O.C.
○	16	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA	24" O.C.
·	4	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
✳	6	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	666	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
⁘	71	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
▨	666	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.



IMPORTANT NOTE:

1. REFER TO SHEET **4&5** FOR ALL GENERAL NOTES AND SYMBOL LEGENDS.
2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
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5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

Landscape Plan **A**

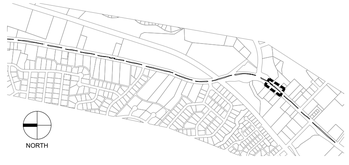
Scale - 1"= 20'-0"

NORTH

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2119 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
mesadesigngroup.com

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SCALE: 1" = 20'-0"

Texas Department of Transportation

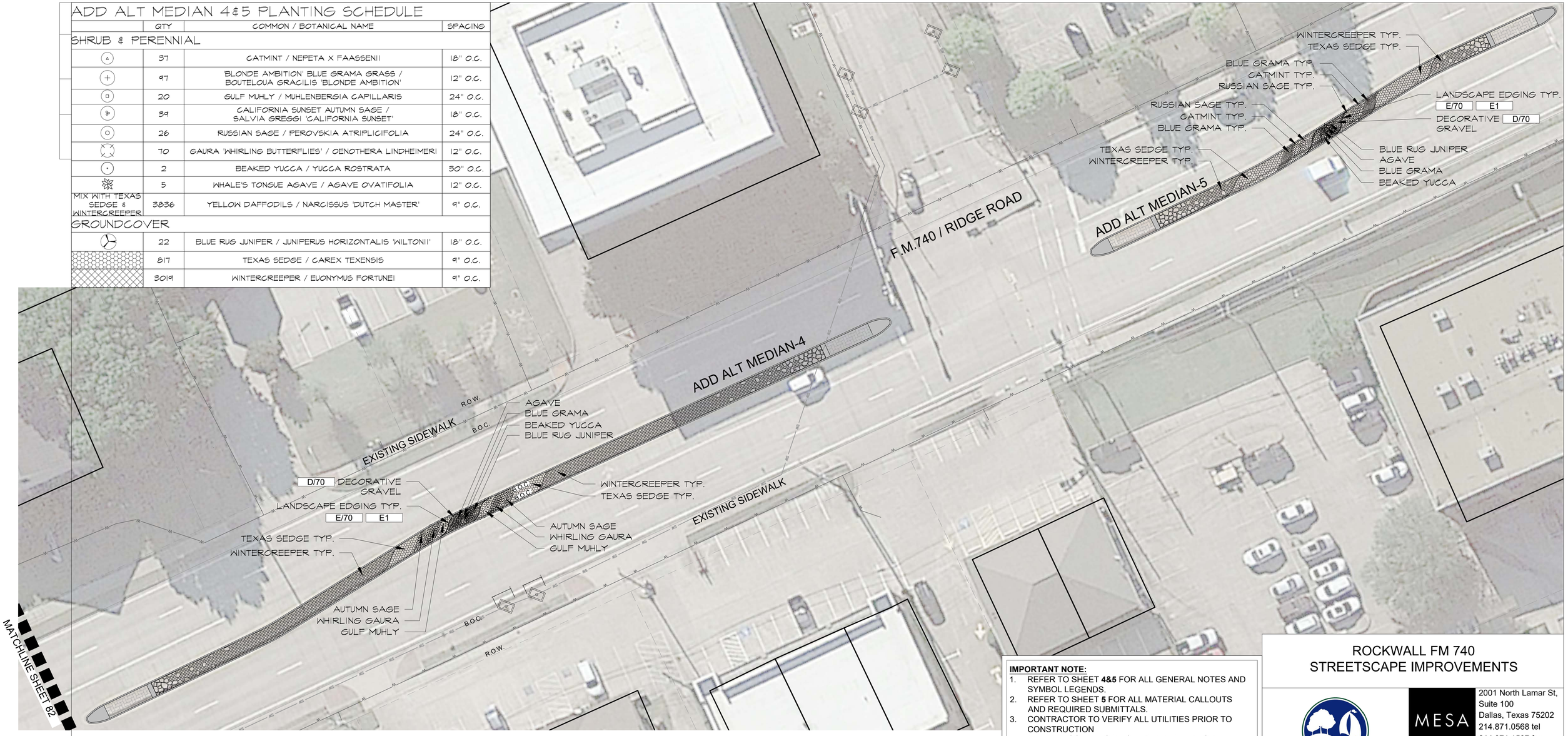
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MEDIAN - 12 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	82
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

ADD ALT MEDIAN 4&5 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
SHRUB & PERENNIAL			
△	37	CATMINT / NEPETA X FAASSENII	18" O.C.
+	97	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
□	20	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
✱	39	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGII 'CALIFORNIA SUNSET'	18" O.C.
○	26	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA	24" O.C.
⊠	70	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
·	2	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
❋	5	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	3836	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
⊛	22	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	817	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	3019	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.



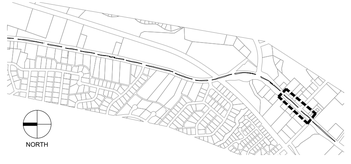
IMPORTANT NOTE:

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2. REFER TO SHEET **5** FOR ALL MATERIAL CALLOUTS AND REQUIRED SUBMITTALS.
3. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
4. ALL HARDSCAPE TO BE STAKED IN FIELD FOR LANDSCAPE ARCHITECTS APPROVAL
5. PROTECT EXISTING CONCRETE CURBS IN PLACE UNLESS OTHERWISE NOTED ON PLANS

LEGEND:

- TRAFFIC LIGHT
- STREET LIGHT POLE
- SIGNAGE
- UTILITY BOX
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- STORM INLET
- WATER VALVES
- WATER LINE
- STORM LINE
- EXISTING TREE TO BE REMOVED
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- EROSION CONTROL LOG AT CURB & GRADE INLET
- EROSION CONTROL LOG ON SLOPES STAKE AND TRENCHING ANCHORING
- TYPE 1 ROCK FILTER DAM

KEY MAP



Landscape Plan | A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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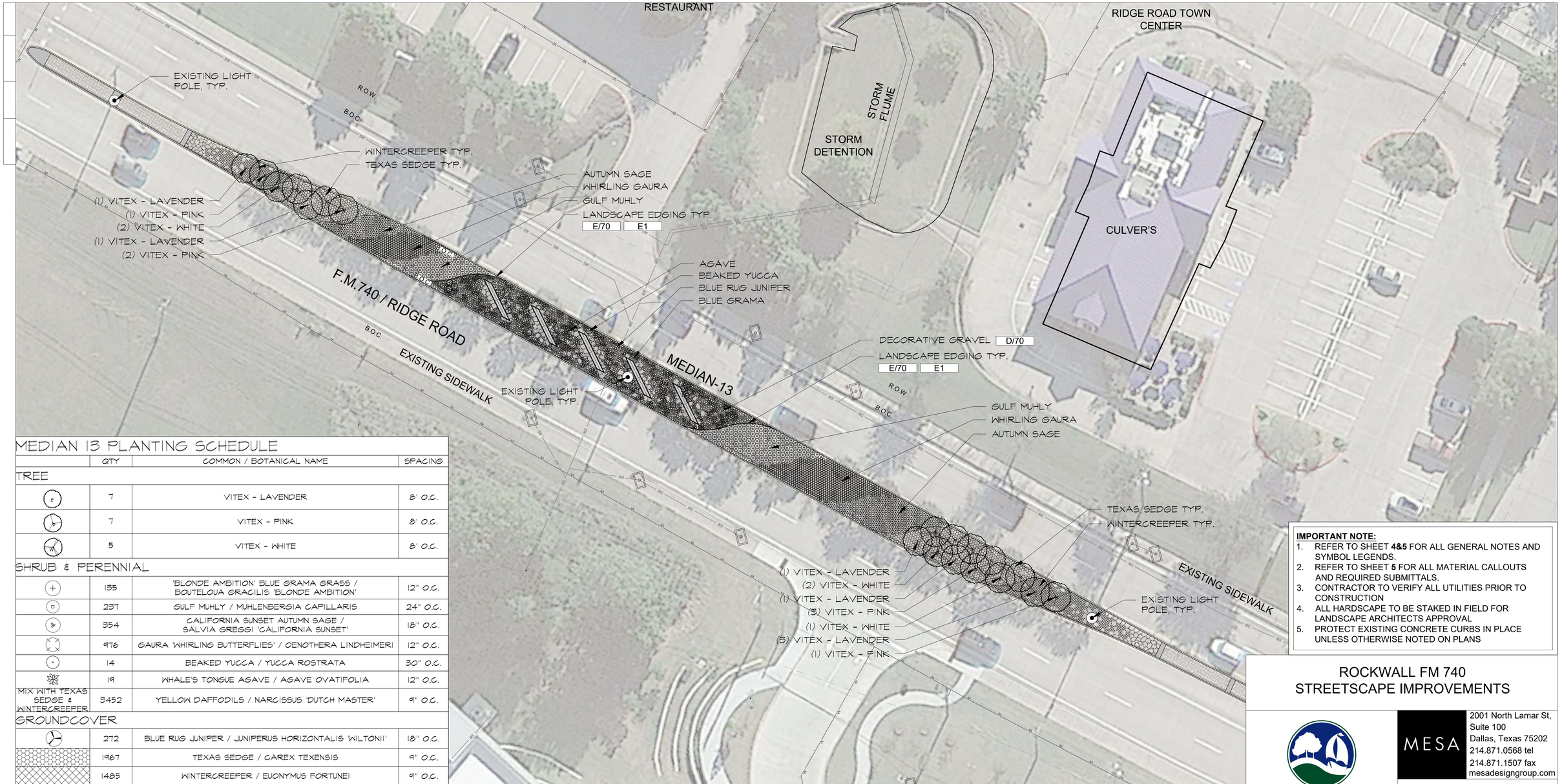
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SCALE: 1" = 20'-0"

Texas Department of Transportation

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ADD ALT MEDIAN - 4&5 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	82-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



MEDIAN 13 PLANTING SCHEDULE

	QTY	COMMON / BOTANICAL NAME	SPACING
TREE			
(c)	7	VITEX - LAVENDER	8' O.C.
(p)	7	VITEX - PINK	8' O.C.
(w)	5	VITEX - WHITE	8' O.C.
SHRUB & PERENNIAL			
+	135	'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	12" O.C.
□	237	GULF MUHLY / MUHLENBERGIA CAPILLARIS	24" O.C.
⊕	354	CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	18" O.C.
⊗	976	GAURA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	12" O.C.
•	14	BEAKED YUCCA / YUCCA ROSTRATA	30" O.C.
✲	19	WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	12" O.C.
MIX WITH TEXAS SEDGE & WINTERCREEPER	3452	YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	9" O.C.
GROUNDCOVER			
⊕	272	BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	18" O.C.
	1967	TEXAS SEDGE / CAREX TEXENSIS	9" O.C.
	1485	WINTERCREEPER / EUONYMUS FORTUNEI	9" O.C.

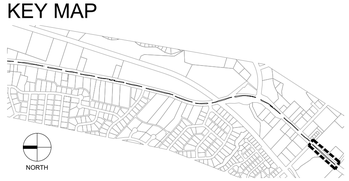
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LEGEND:

- TRAFFIC LIGHT
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- TYPE 1 ROCK FILTER DAM

KEY MAP



Landscape Plan | A

Scale - 1"= 20'-0"

NORTH

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2118 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St,
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Dallas, Texas 75202
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mesadesigngroup.com

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SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 13 LANDSCAPE PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	83
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

PLANTING SCHEDULE

	QTY (BASE BID)	QTY (ADD ALT 1)	QTY (ADD ALT 2)	COMMON / BOTANICAL NAME	SIZE MIN.	HEIGHT MIN.	SPREAD	SPACING	COMMENTS
TREE									
	26	0		DESERT WILLOW / CHILOPSIS LINEARIS	3" CAL MULTI-STEM	10'-14'	8'-12'	8' O.C.	B&B, NURSERY OR FIELD GROWN, FULL WITH UNIFORM BRANCHING STRUCTURE
	36	9		LAVENDER VITEX / VITEX AGNUS-CASTUS 'SHOAL CREEK'	3" CAL MULTI-STEM	10'-12'	6'-10'	8' O.C.	B&B, NURSERY OR FIELD GROWN, FULL WITH UNIFORM BRANCHING STRUCTURE
P	31	6		PINK VITEX / VITEX AGNUS-CASTUS 'PINK PINNACLE'	3" CAL MULTI-STEM	10'-12'	6'-10'	8' O.C.	B&B, NURSERY OR FIELD GROWN, FULL WITH UNIFORM BRANCHING STRUCTURE
W	28	8		WHITE VITEX / VITEX AGNUS-CASTUS 'WHITE'	3" CAL MULTI-STEM	10'-12'	6'-10'	8' O.C.	B&B, NURSERY OR FIELD GROWN, FULL WITH UNIFORM BRANCHING STRUCTURE
SHRUB & PERENNIAL									
△	378	37		CATMINT / NEPETA X FAASSENII	1 GAL	10"-12"	9"-12"	18" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
+	1,129	168		'BLONDE AMBITION' BLUE GRAMA GRASS / BOUTELOUA GRACILIS 'BLONDE AMBITION'	1 GAL	12"-18"	12"-18"	12" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
□	668	99		GULF MUHLY / MUHLENBERGIA CAPILLARIS	1 GAL	12"-18"	12"-18"	24" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
	1,056	159		CALIFORNIA SUNSET AUTUMN SAGE / SALVIA GREGGI 'CALIFORNIA SUNSET'	1 GAL	12"-18"	10"-14"	18" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
○	201	26		RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA	1 GAL	12"-15"	12"-18"	24" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
	2,565	320		GUARA 'WHIRLING BUTTERFLIES' / OENOTHERA LINDHEIMERI	1 GAL	10"-12"	8"-10"	12" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
	89	8		BEAKED YUCCA / YUCCA ROSTRATA	3 GAL	18"-24"	12"-18"	30" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
	150	16		WHALE'S TONGUE AGAVE / AGAVE OVATIFOLIA	3 GAL	10"-12"	10"-12"	12" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
MIX WITH TEXAS SEDGE & WINTERCREEPER	23,959	9171		YELLOW DAFFODILS / NARCISSUS 'DUTCH MASTER'	14/16 BULBS	TBD	TBD	9" O.C.	NURSERY GROWN, FIRM AND PLUMP, NOT WITHERED AND OVERLY DRY, CONTRACT GROWN, TRIANGULAR SPACING, MIXED WITH TEXAS SEDGE AND WINTERCREEPER AT EQUAL SPACING
GROUNDCOVER									
	1,240	108		BLUE RUG JUNIPER / JUNIPERUS HORIZONTALIS 'WILTONII'	1 GAL	3"-6"	9"-12"	18" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING
	9,357	2,181	-5,065	TEXAS SEDGE / CAREX TEXENSIS	1 GAL	8"-10"	8"-10"	9" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING, PROVIDE ALTERNATE PRICE FOR 12" O.C. SPACING
	14,602	6,990		WINTERCREEPER / EUONYMUS FORTUNEI	4" POT	6"-12"	6"-12"	9" O.C.	NURSERY GROWN, FULLY ROOTED, DENSE, MATCHED, FULL, CONTRACT GROWN, TRIANGULAR SPACING

Planting Schedule | A

	Date	Description

REGISTERED LANDSCAPE ARCHITECT STAN R. COWAN 2116 STATE OF TEXAS

06/12/2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

MESA
2001 North Lamar St, Suite 100
Dallas, Texas 75202
214.871.0568 tel
214.871.1507 fax
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PLANTING SCHEDULE

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	84
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

RIDGE ROAD SHOPPING CENTER

MATCHLINE 86

R.O.W.

B.O.C.

B.O.C.

EXISTING SIDEWALK

B.O.C.

R.O.W.

A1
1" DV
3/4
502 SF

A2
1" DV
3/4
2115 SF

A3
1" DV
1/2
251 SF

A4
1" V
2 1/2
1 NEES

A5
1" DV
1/2
2115 SF

A6
1" DV
1/2
339 SF

A1
1" DV
3/4
458 SF

I-1/2"

WEATHER MONITOR POLE LOCATION
WEATHERMATIC SLW SERIES 12 STATION PEDESTAL MOUNTED CONTROLLER (A) WITH WIRED SLW-R WEATHER MONITOR ON A POLE. IRRIGATION CONTROLLER TO BE CONNECTED TO EXISTING ELECTRICAL SERVICE IN MEDIAN.

EXISTING 4" SLEEVE

EXISTING 1" WATER METER TO REMAIN.
NEW 1" ISOLATION VALVE BY LIC.
NEW 1-1/2" SYE STRAINER BY LIC.
NEW 1" DOUBLE CHECK ASSEMBLY BY LIC.
NEW 1" MASTER VALVE BY LIC.
NEW 1" FLOW SENSOR BY LIC.

MEDIAN-1
F.M.740 / RIDGE ROAD

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
A	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
B	XERI-BUG EMITTER		
C	XERI-BUG EMITTER	W	EXISTING WATER METER
	XERI-BIRD & MULTI-OUTLET	I	ISOLATION VALVE
		Y	WYE STRAINER
	REMOTE CONTROL VALVE		BACKFLOW PREVENTER (DCA)
	CONTROLLER	M	MASTER VALVE
	MAINLINE PIPING	F	FLOW METER
	LATERAL PIPING		
	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is: www.tceq.state.tx.us

IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
848
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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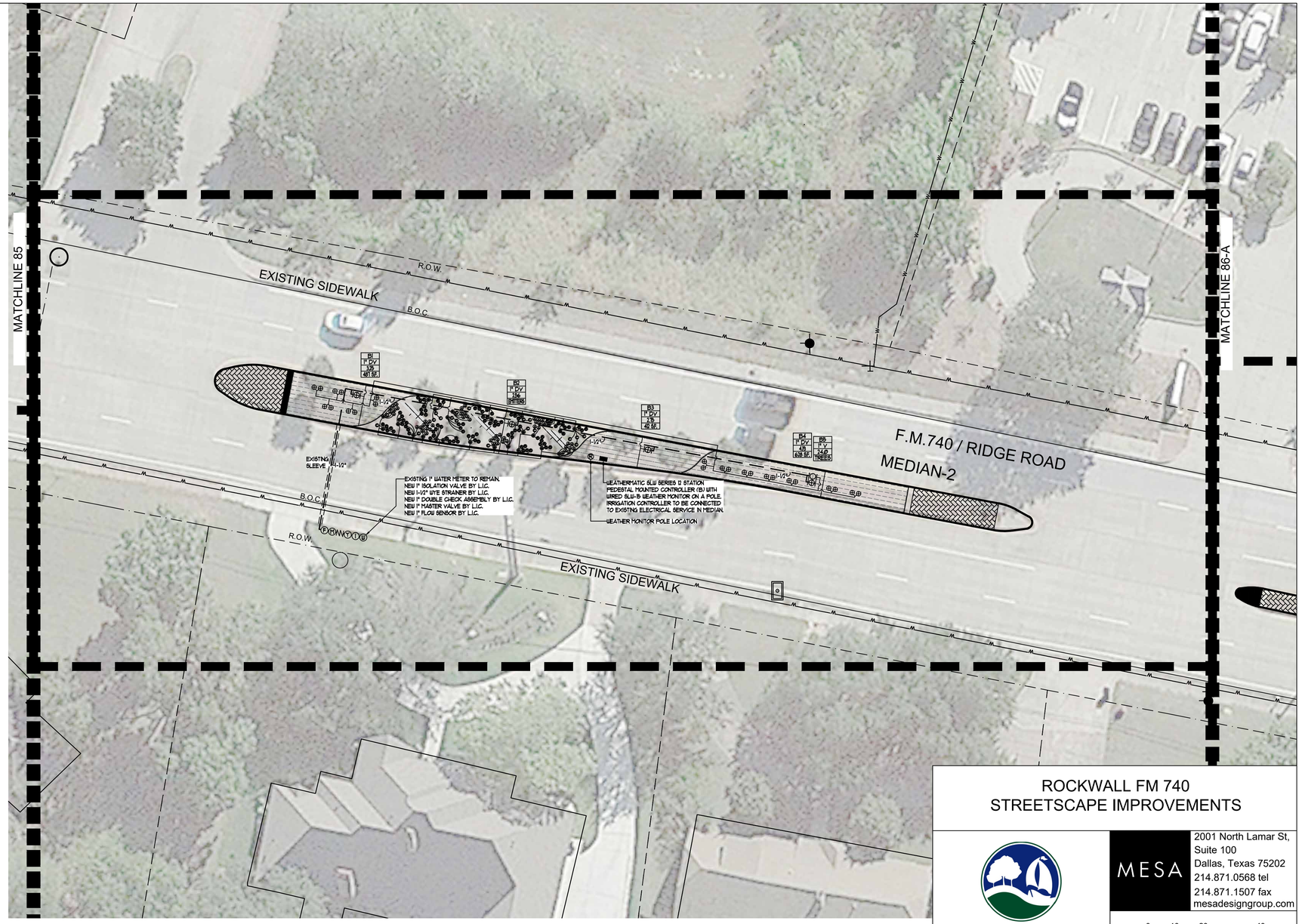
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SCALE: 1" = 20'-0"

Texas Department of Transportation

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MEDIAN - 1
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	85
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
Ⓐ	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
Ⓑ	XERI-BUG EMITTER		
Ⓒ	XERI-BUG EMITTER	Ⓦ	EXISTING WATER METER
	XERI-BIRD 8 MULTI-OUTLET	Ⓘ	ISOLATION VALVE
		Ⓨ	WYE STRAINER
	REMOTE CONTROL VALVE		BACKFLOW PREVENTER (DCA)
	CONTROLLER	Ⓜ	MASTER VALVE
	MAINLINE PIPING	Ⓕ	FLOW METER
	LATERAL PIPING		
	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT
06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

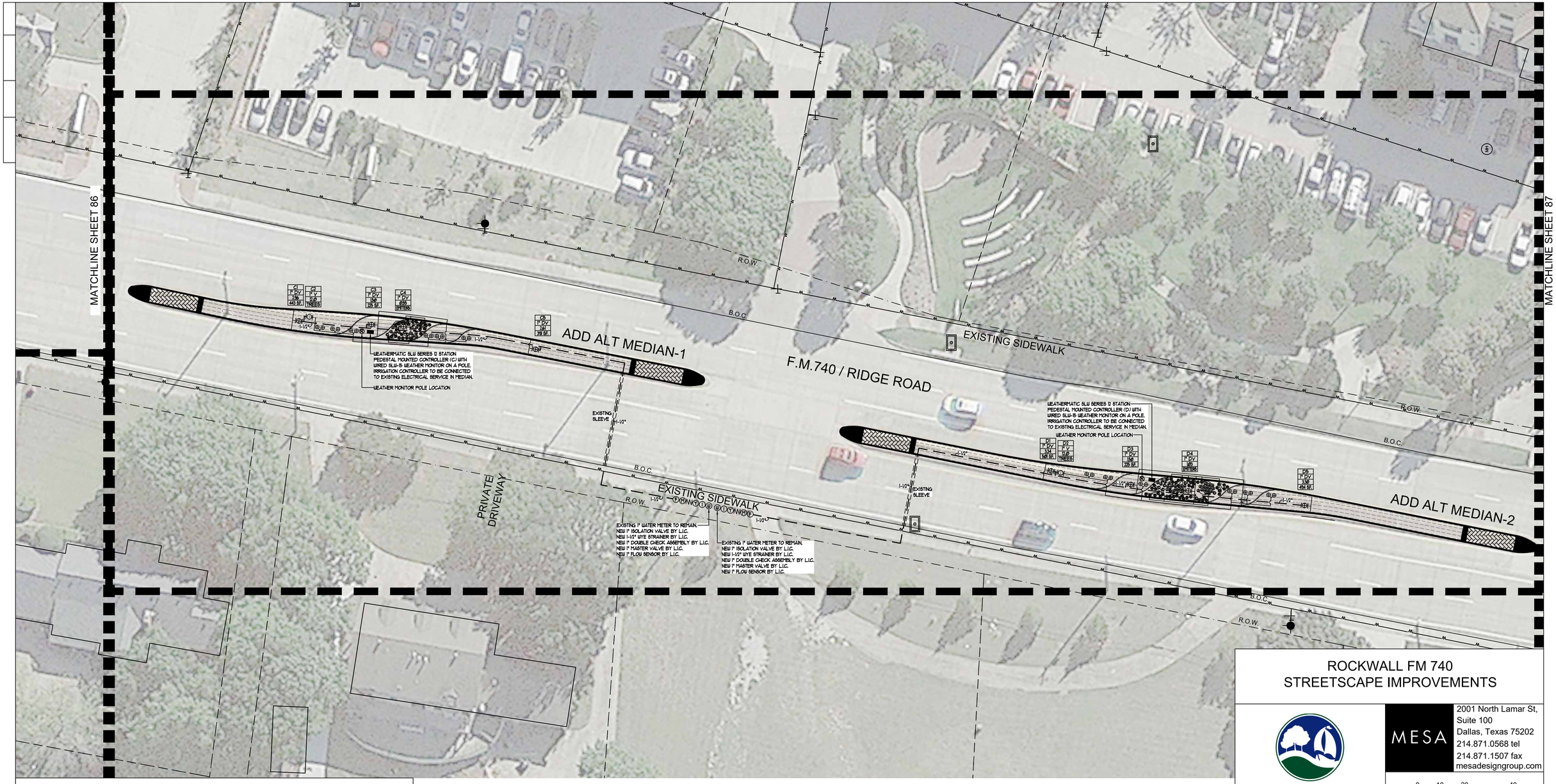
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SCALE: 1" = 20'-0"

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MEDIAN - 2
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	86
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
A	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
B	XERI-BUG EMITTER		
C	XERI-BUG EMITTER	W	EXISTING WATER METER
D	XERI-BIRD & MULTI-OUTLET	I	ISOLATION VALVE
	REMOTE CONTROL VALVE	Y	WYE STRAINER
	CONTROLLER	NN	BACKFLOW PREVENTER (DCA)
	MAINLINE PIPING	M	MASTER VALVE
	LATERAL PIPING	F	FLOW METER
	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED IRRIGATOR

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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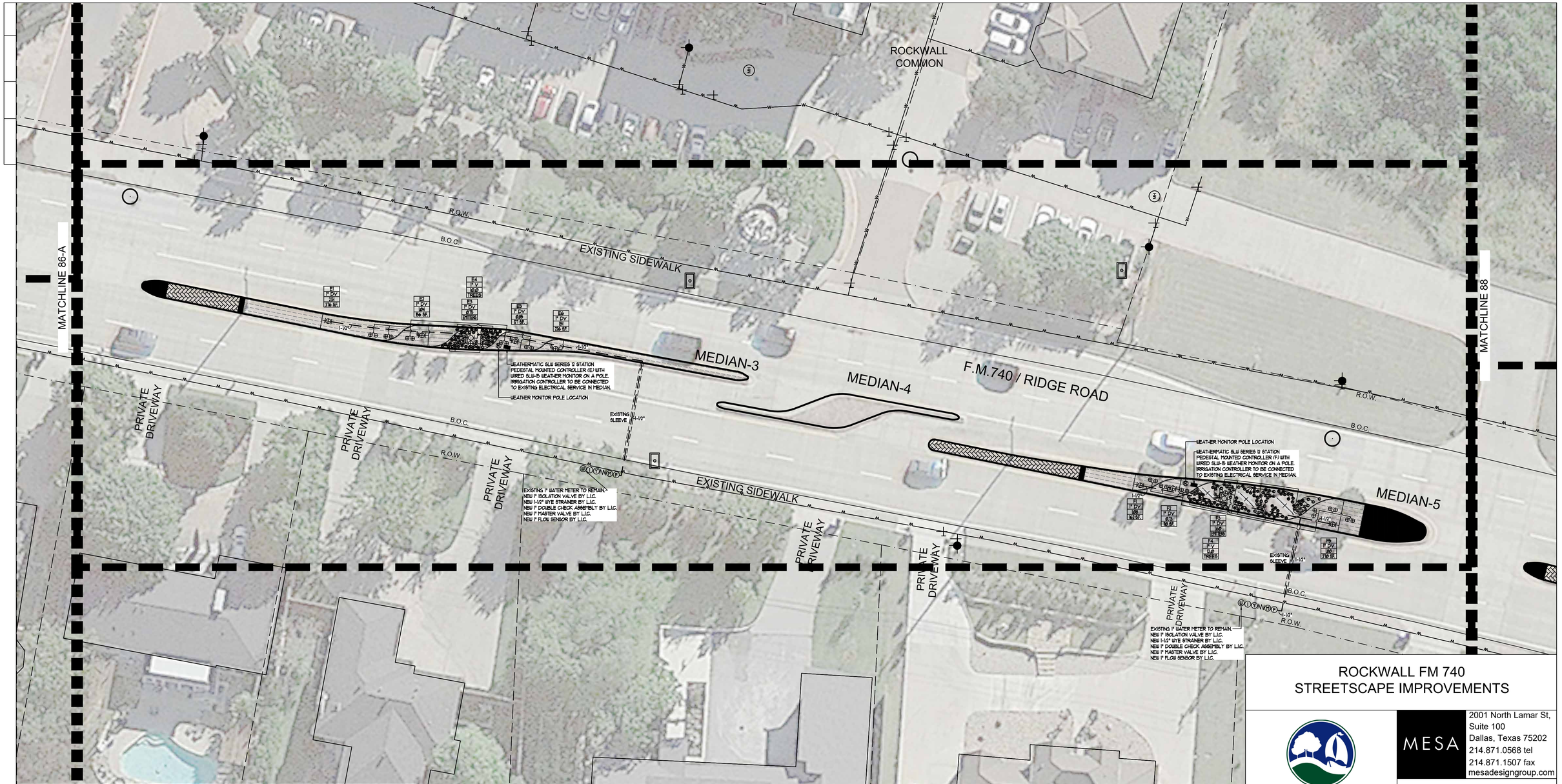
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SCALE: 1" = 20'-0"

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ADD ALT MEDIAN - 1 & 2 IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	86-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
A	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
B	XERI-BUG EMITTER		
C	XERI-BUG EMITTER	W	EXISTING WATER METER
D	XERI-BIRD & MULTI-OUTLET	I	ISOLATION VALVE
	REMOTE CONTROL VALVE	Y	WYE STRAINER
	CONTROLLER	NN	BACKFLOW PREVENTER (DCA)
	MAINLINE PIPING	M	MASTER VALVE
	LATERAL PIPING	F	FLOW METER
	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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MEDIAN - 3, 4 & 5
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	87
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
A	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
B	XERI-BUG EMITTER		
C	XERI-BUG EMITTER	W	EXISTING WATER METER
	XERI-BIRD & MULTI-OUTLET	I	ISOLATION VALVE
		Y	WYE STRAINER
	REMOTE CONTROL VALVE		BACKFLOW PREVENTER (DCA)
	CONTROLLER	M	MASTER VALVE
	MAINLINE PIPING	F	FLOW METER
	LATERAL PIPING		
	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

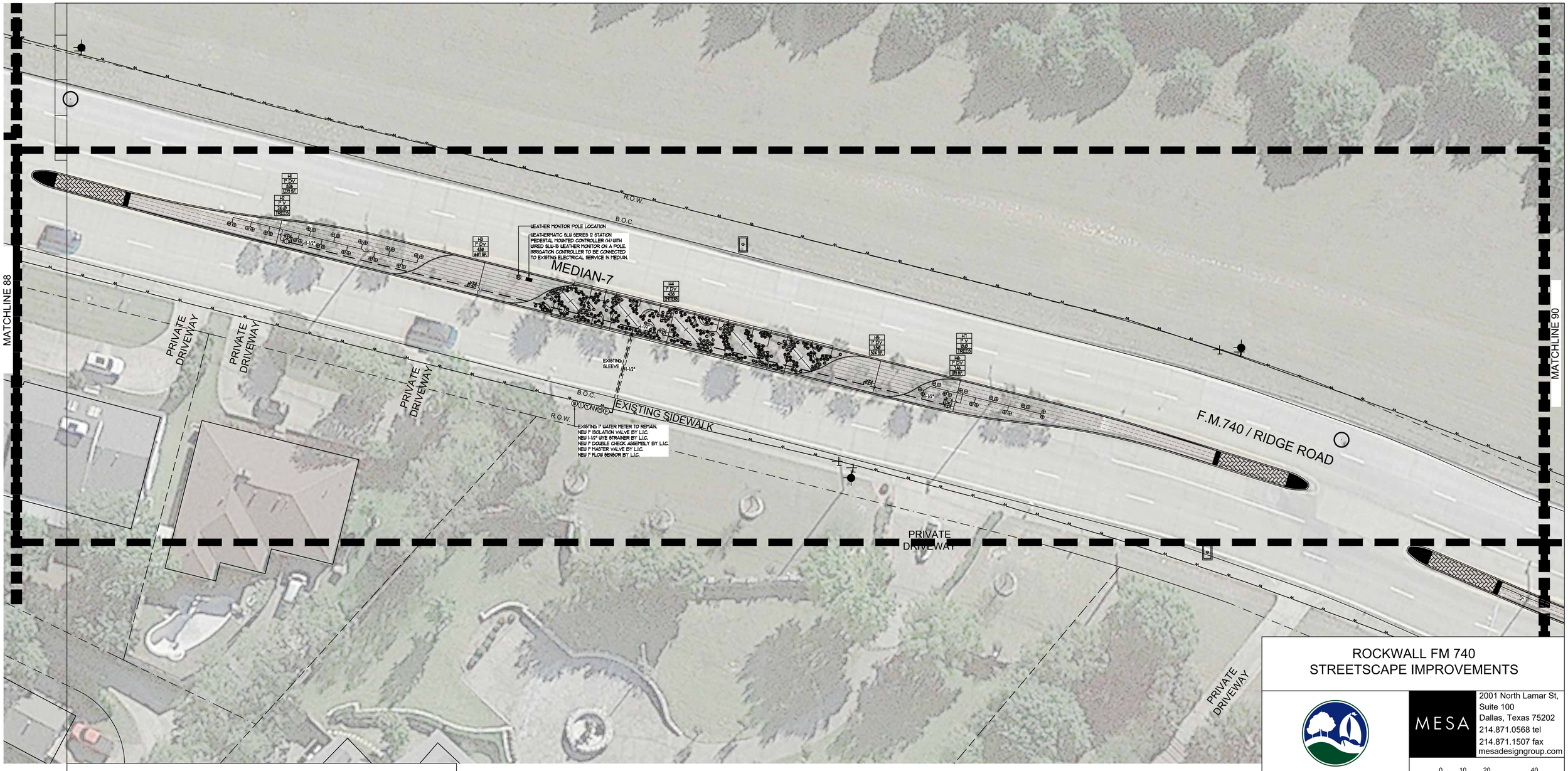
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MEDIAN - 6
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	88
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
●	TREE BUBBLER	———	DISTRIBUTION TUBING
Ⓐ	XERI-BUG EMITTER	⋿⋿⋿⋿⋿⋿⋿	PLANTING BED TECHLINE TUBING
Ⓑ	XERI-BUG EMITTER		
Ⓒ	XERI-BUG EMITTER	Ⓦ	EXISTING WATER METER
◉	XERI-BIRD & MULTI-OUTLET	Ⓘ	ISOLATION VALVE
		Ⓨ	WYE STRAINER
⋈	REMOTE CONTROL VALVE	⋈	BACKFLOW PREVENTER (DCA)
▬	CONTROLLER	Ⓜ	MASTER VALVE
— —	MAINLINE PIPING	Ⓕ	FLOW METER
———	LATERAL PIPING		
⋈	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

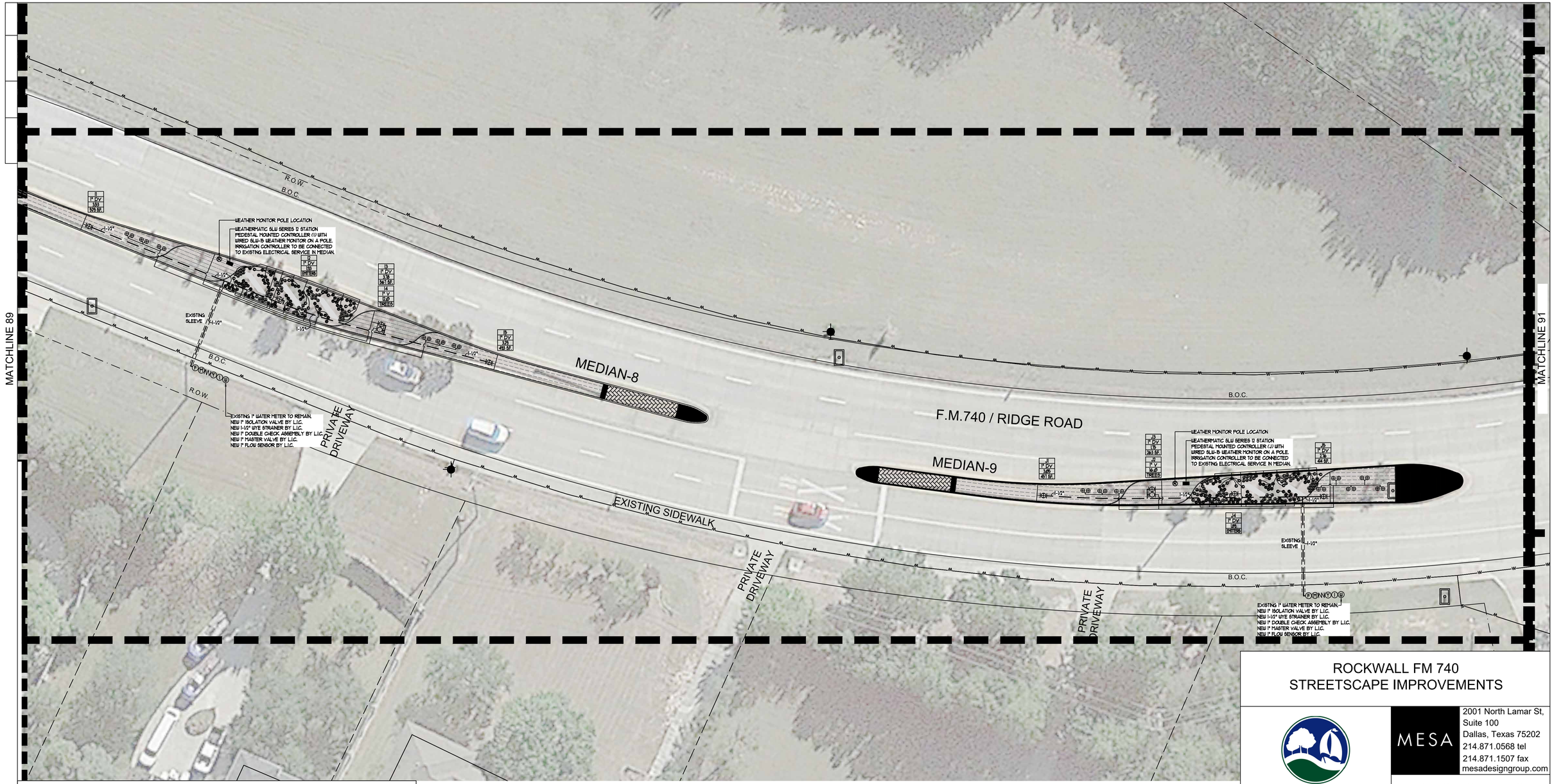
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MEDIAN - 7
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	89
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
A	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
B	XERI-BUG EMITTER	W	EXISTING WATER METER
C	XERI-BUG EMITTER	I	ISOLATION VALVE
D	XERI-BIRD 8 MULTI-OUTLET	Y	WYE STRAINER
IOI	REMOTE CONTROL VALVE	NN	BACKFLOW PREVENTER (DCA)
	CONTROLLER	M	MASTER VALVE
	MAINLINE PIPING	F	FLOW METER
	LATERAL PIPING		STATION NUMBER VALVE SIZE GPM (APPROX.)
KDI	REMOTE CONTROL DRIP VALVE		

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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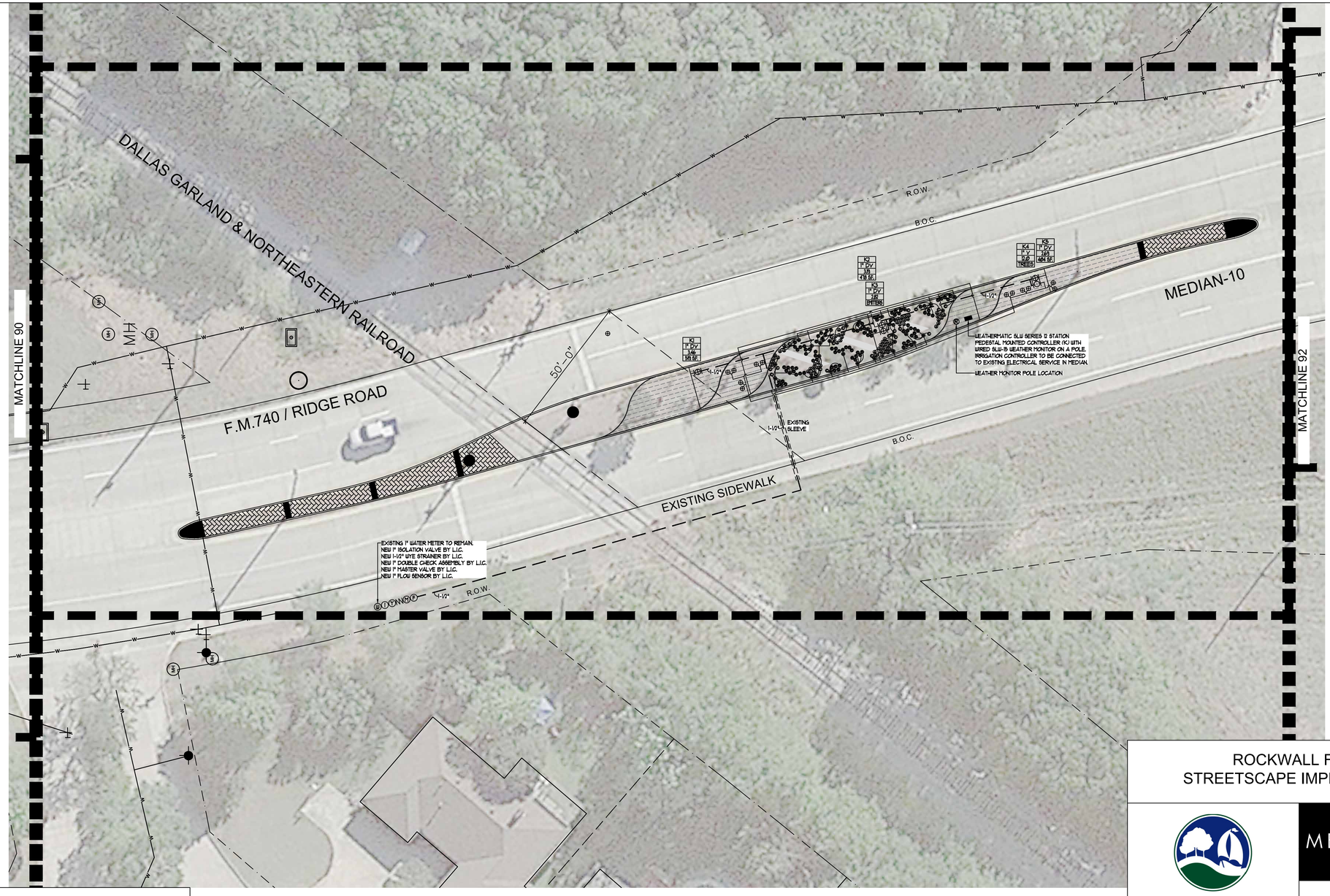
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MEDIAN - 8 & 9 IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	90
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
●	TREE BUBBLER		DISTRIBUTION TUBING
Ⓐ	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
Ⓑ	XERI-BUG EMITTER		
Ⓒ	XERI-BUG EMITTER	Ⓦ	EXISTING WATER METER
◉	XERI-BIRD & MULTI-OUTLET	Ⓘ	ISOLATION VALVE
		Ⓨ	WYE STRAINER
IOI	REMOTE CONTROL VALVE	NN	BACKFLOW PREVENTER (DCA)
▬	CONTROLLER	Ⓜ	MASTER VALVE
— —	MAINLINE PIPING	Ⓕ	FLOW METER
——	LATERAL PIPING		
IOI	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is: www.tceq.state.tx.us

IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

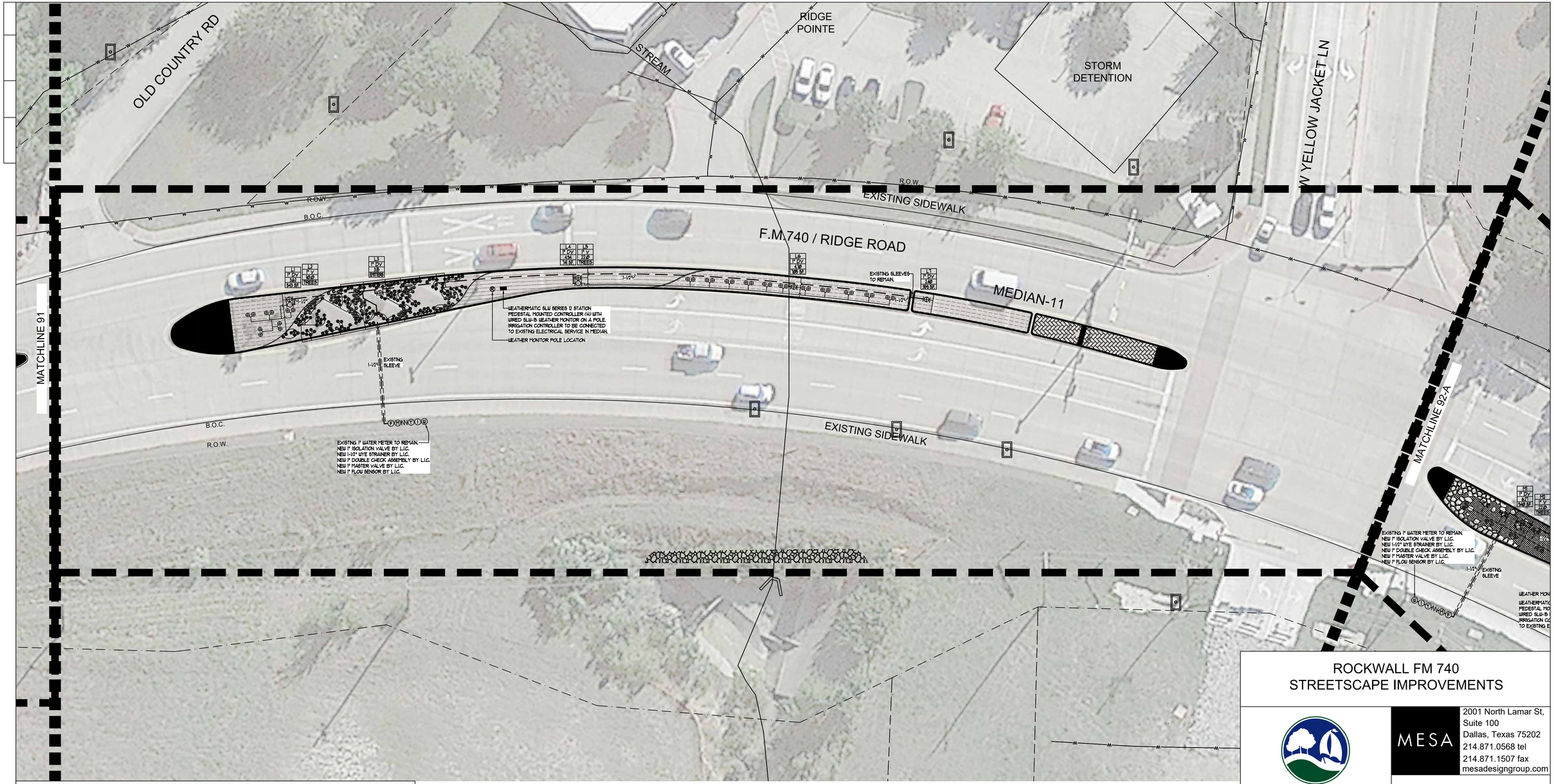
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SCALE: 1" = 20'-0"

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MEDIAN - 10
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	91
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
A	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
B	XERI-BUG EMITTER	W	EXISTING WATER METER
C	XERI-BUG EMITTER	I	ISOLATION VALVE
D	XERI-BIRD & MULTI-OUTLET	Y	WYE STRAINER
	REMOTE CONTROL VALVE	NN	BACKFLOW PREVENTER (DCA)
	CONTROLLER	M	MASTER VALVE
	MAINLINE PIPING	F	FLOW METER
	LATERAL PIPING		STATION NUMBER VALVE SIZE GPM (APPROX.)
	REMOTE CONTROL DRIP VALVE		

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED IRRIGATOR

06-12-2026

Signature of Registrant & Date

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ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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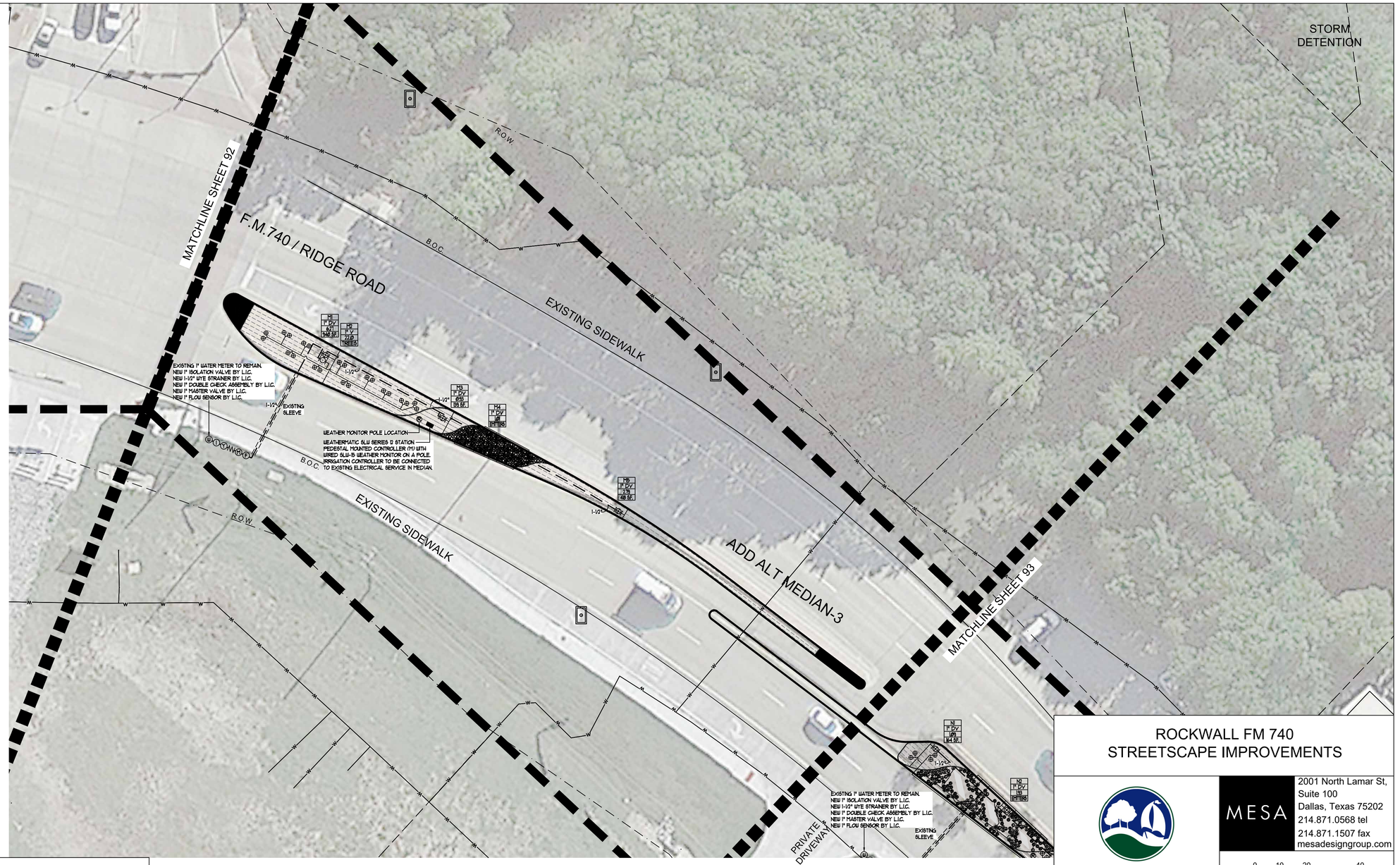
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MEDIAN - 11
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	92
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
Ⓐ	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
Ⓑ	XERI-BUG EMITTER		
Ⓒ	XERI-BUG EMITTER	Ⓦ	EXISTING WATER METER
	XERI-BIRD & MULTI-OUTLET	Ⓘ	ISOLATION VALVE
		Ⓨ	WYE STRAINER
	REMOTE CONTROL VALVE		BACKFLOW PREVENTER (DCA)
	CONTROLLER	Ⓜ	MASTER VALVE
	MAINLINE PIPING	Ⓕ	FLOW METER
	LATERAL PIPING		
	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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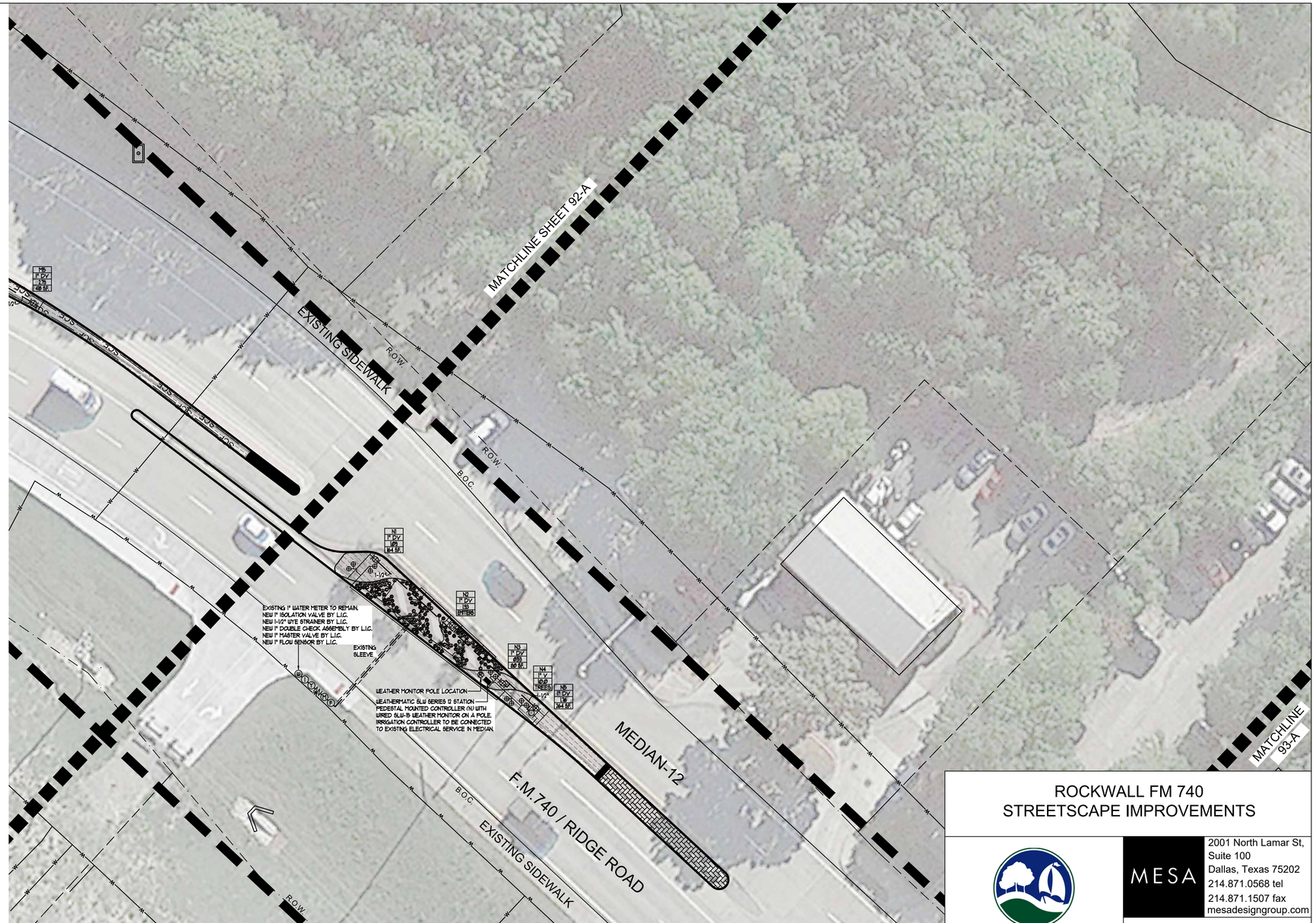
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Texas Department of Transportation

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ADD ALT MEDIAN - 3
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	92-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
A	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
B	XERI-BUG EMITTER		
C	XERI-BUG EMITTER	W	EXISTING WATER METER
	XERI-BIRD & MULTI-OUTLET	I	ISOLATION VALVE
		Y	WYE STRAINER
1O1	REMOTE CONTROL VALVE	NN	BACKFLOW PREVENTER (DCA)
	CONTROLLER	M	MASTER VALVE
	MAINLINE PIPING	F	FLOW METER
	LATERAL PIPING		STATION NUMBER VALVE SIZE GPM (APPROX.)
KBI	REMOTE CONTROL DRIP VALVE		

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

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IT JOB NO.: 26040

DALLAS, TEXAS 75243
FAX: (972) 231-5172

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

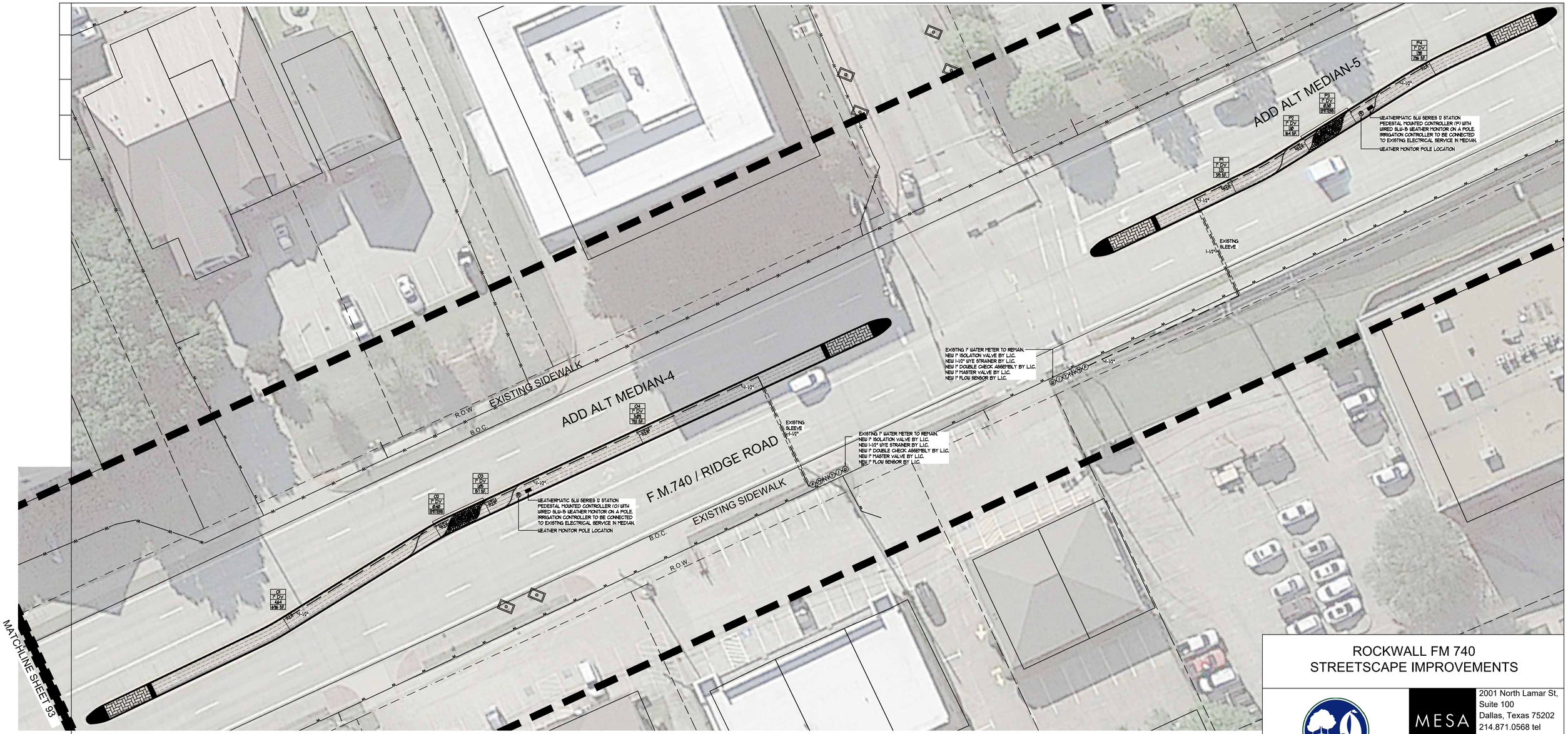
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MEDIAN - 12
IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	93
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
	XERI-BUG EMITTER		
	XERI-BUG EMITTER	W	EXISTING WATER METER
	XERI-BIRD 8 MULTI-OUTLET	I	ISOLATION VALVE
	REMOTE CONTROL VALVE	Y	WYE STRAINER
	CONTROLLER	NN	BACKFLOW PREVENTER (DCA)
	MAINLINE PIPING	M	MASTER VALVE
	LATERAL PIPING	F	FLOW METER
	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is: www.tceq.state.tx.us

IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
848
LICENSED IRRIGATOR

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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ADD ALT MEDIAN - 4 & 5 IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	93-A
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	

RESTAURANT

RIDGE ROAD TOWN CENTER

STORM FLUME

STORM DETENTION

CULVER'S

R.O.W.

B.O.C.

F.M.740 / RIDGE ROAD

MEDIAN-13

EXISTING SIDEWALK

EXISTING SIDEWALK

Q2 1" DV 45 135 SF

Q3 1" DV 30 180 SF

Q4 1" DV 153 (HTHS)

Q5 1" DV 19 (HTHS)

Q6 1" DV 383 1061 SF

Q7 1" DV 24@ (HTHS)

Q8 1" DV 8@ (HTHS)

Q1 1" DV 14@ (HTHS)

1-1/2"

EXISTING SLEEVE

EXISTING 1" WATER METER TO REMAIN.
NEW 1" ISOLATION VALVE BY LIC.
NEW 1-1/2" WYE STRAINER BY LIC.
NEW 1" DOUBLE CHECK ASSEMBLY BY LIC.
NEW 1" MASTER VALVE BY LIC.
NEW 1" FLOW SENSOR BY LIC.

WEATHER MONITOR POLE LOCATION
WEATHERMATIC SLW SERIES 12 STATION PEDESTAL MOUNTED CONTROLLER (Q) WITH WIRED SLW-15 WEATHER MONITOR ON A POLE. IRRIGATION CONTROLLER TO BE CONNECTED TO EXISTING ELECTRICAL SERVICE IN MEDIAN.

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TREE BUBBLER		DISTRIBUTION TUBING
Ⓐ	XERI-BUG EMITTER		PLANTING BED TECHLINE TUBING
Ⓑ	XERI-BUG EMITTER		
Ⓒ	XERI-BUG EMITTER	Ⓦ	EXISTING WATER METER
Ⓓ	XERI-BIRD & MULTI-OUTLET	Ⓘ	ISOLATION VALVE
		Ⓨ	WYE STRAINER
	REMOTE CONTROL VALVE		BACKFLOW PREVENTER (DCA)
	CONTROLLER	Ⓜ	MASTER VALVE
	MAINLINE PIPING	Ⓕ	FLOW METER
	LATERAL PIPING		
	REMOTE CONTROL DRIP VALVE		STATION NUMBER VALVE SIZE GPM (APPROX.)

Irrigation Plan | A

Scale - 1"= 20'-0"

NORTH

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

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Irrigation Technology

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740 STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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MEDIAN - 13 IRRIGATION PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
	6	(SEE TITLE SHEET)		FM 740
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	94
	CONTROL	SECTION	JOB	
CHECK	1014	03	063	

NOTES:

1. MAINLINE SHALL BE INSTALLED AND PRESSURE TESTED FOR 24 HOURS PRIOR TO BACKFILLING AROUND ALL FITTINGS.
2. INSTALL VALVE WIRE DIRECTLY UNDER THE MAINLINE AND TAPE EVERY 100'-0". WIRES SHALL HAVE EXPANSION CURLS AT ALL TURNS IN THE PIPING AND INSIDE VALVE BOXES.
3. ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE 3M-DBY PERMANENT AND WATERPROOF PER THE SPECIFICATIONS. ALL VALVE STATION WIRES ARE TO BE RED AND ALL VALVE COMMON WIRES ARE TO BE WHITE. INSTALL ONE (1) BLUE EXTRA WIRE TO EACH END OF ALL ZONES.
4. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
5. LATERAL PIPING SHALL HAVE A MINIMUM OF 18" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER. USE WELD-ON #705 SOLVENT AND #P-68 PRIMER FOR PVC CONNECTIONS PER THE SPECIFICATIONS.
6. PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED OR LAWN AREA.
7. THIS PROJECT WILL NOT ALLOW ANY PVC PUSH FITTINGS, SOLVENT LESS PVC FITTINGS, FLEXIBLE PVC COUPLINGS, ETC.. NO FOUR WAY CROSS CONNECTIONS ARE ALLOWED.
8. INSTALL REMOTE CONTROL VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH NDS VALVE BOXES PER DETAIL SHOWN.
9. INSTALL REMOTE CONTROL DRIP VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH NDS VALVE BOXES PER DETAIL SHOWN.
10. INSTALL ALL WIRE SPLICES IN TEN (10") INCH ROUND NDS VALVE BOXES.
11. SLEEVES MARKED AS EXISTING HAVE BEEN INSTALLED BY OTHERS. ALL OTHER SLEEVES SHALL BE PROVIDED AND INSTALLED BY THE IRRIGATION CONTRACTOR.IRRIGATION CONTRACTOR TO PROVIDE AND INSTALL SLEEVES WHETHER OR NOT SLEEVES ARE SHOWN ON THE PLANS.
12. ROUTE COMMON WIRE FROM CONTROLLER TO REMOTE SENSORS IN SERIES PRIOR TO CONNECTING TO REMOTE CONTROL VALVES.
13. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN 65.0 PSI, DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER. DESIGN PRESSURE IS 58.0 PSI.
14. MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE 18".
15. MINIMUM HORIZONTAL DISTANCE OF 36" TO BE MAINTAINED BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
16. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO STAKE TREE BUBBLER LOCATIONS AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
17. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO STAKE DRIPLINE AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
18. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO USE XF DRIPLINE INSERT BARBED FITTINGS PER MANUFACTURER'S RECOMMENDATIONS.
19. ALL PLANTING BED DRIPLINE AND DISTRIBUTION TUBING TO BE INSTALLED AT FINISH GRADE AND BELOW MULCH LAYER. ALL DRIPLINE TO BE INSTALLED ON 1'-0" ROW SPACING UNLESS INSTRUCTED OTHERWISE. L.I.C. IS RESPONSIBLE TO VERIFY THE EXACT EMITTER FLOW, EMITTER SPACING, AND ROW SPACING WITH MANUFACTURER PRIOR TO INSTALLING TO PROVIDE PROPER PRECIPITATION RATE BASED ON PLANT MATERIAL AND SOIL TYPE. TUBING TO BE STAKED WITH RAINBIRD TDS-050 DSA WITH BEND GALVANIZED TIE DOWN STAKES. INSTALL STAKES AT 3'-0" ON CENTER ALONG LENGTH OF TUBING AND A MINIMUM OF 24" FROM ANY FITTINGS. CONTRACTOR TO PROVIDE AND INSTALL PVC HEADERS BELOW GRADE PER DETAILS.
20. AIR RELIEF VALVE TO BE NETAFIM TLA-VRV INSTALLED IN A SIX-INCH (6") ROUND NDS VALVE BOX WITH GREEN LID AND GRAVEL SUMP.
21. FLUSH VALVES TO BE NETAFIM TLFV-1 ON IPS FLEXIBLE PIPE AND 1/2" SCHEDULE 80 FITTINGS INSTALLED IN A SIX-INCH (6") ROUND NDS VALVE BOX WITH GREEN LID AND GRAVEL SUMP.
22. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT QUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS. ALLOW FOR APPROXIMATELY (2) TWO AIR RELIEF VALVES AND APPROXIMATELY (2) TWO FLUSH VALVES PER DRIP ZONE FOR THIS PROJECT.
23. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO PROVIDE ONE NETAFIM TECHFLAG FOR EACH DRIP ZONE TO VERIFY ZONE IS OPERATING. L.I.C. IS RESPONSIBLE TO COORDINATE AND RECEIVE APPROVAL OF THESE LOCATIONS PRIOR TO INSTALLING.
24. IF ANY NOTES ON THE PLANS INDICATE THAT THE CONTRACTOR IS TO CONNECT TO EXISTING IRRIGATION MAINLINE, WIRING, AND / OR LATERAL LINES, ETC., IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS PRICING ANY ALLOWANCES HE DETERMINES IS REQUIRED TO LOCATE THE CONNECTION POINT OR CONNECTION POINTS. THIS ALLOWANCE SHOULD INCLUDE ANY COST THE CONTRACTOR DETERMINES HE NEEDS AS THERE WILL BE NO ADDITIONAL ALLOWANCES ALLOWED BY THE OWNER FOR LOCATING THESE CONNECTION POINTS. THIS MEANS ANY WIRE TRACING, TRENCHING, HAND EXCAVATIONS, ETC. NECESSARY ARE TO BE PART OF THIS PRICE. ANY COST TO REPAIR DAMAGE TO EXISTING SITE CONDITIONS (IRRIGATION, LANDSCAPING, PAVING, GRADING, ELECTRICAL, ETC.) SHOULD BE INCLUDED IN THIS ALLOWANCE.
24. ANY CONNECTION LOCATIONS SHOWN ON THE PLANS ARE GENERAL IN NATURE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THESE POINTS AT HIS COST AS PART OF THIS WORK. NEITHER IRRI-TECH LLC, THE CONTRACTOR WHO INSTALLED THE PREVIOUS SYSTEM, OR ASBUILT PLANS CAN BE RELIED ON OR BE AVAILABLE TO HELP WITH ANY LOCATION OF THE EXISTING CONNECTION POINTS. AS PART OF THE PRICING FOR THIS PROJECT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND TO INCLUDE WHATEVER ALLOWANCE HE DETERMINES IS REQUIRED TO LOCATE THESE CONNECTION POINTS AND MAKE REPAIRS AT HIS EXPENSE. THERE WILL BE NO HELP IN LOCATING THESE POINTS AND NO ADD CHANGE ORDERS ISSUED FOR LOCATING THESE CONNECTION POINTS OR FOR REPAIRS TO ANY EXISTING IMPROVEMENTS DAMAGED BY LOCATING OR EXCAVATING FOR THESE CONNECTION POINTS.
25. ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES ARE MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS CAUTIONED THAT HE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS OR LOCAL CODES CONCERNING LANDSCAPE IRRIGATION.
26. A LICENSED IRRIGATOR OR LICENSED IRRIGATION TECHNICIAN SHALL BE ON-SITE AT ALL TIMES WHILE THE LANDSCAPE IRRIGATION SYSTEM IS BEING INSTALLED.
27. CONTRACTOR TO CONFIRM SIZE AND LOCATION OF ALL WATER METERS PRIOR TO BIDDING OF THIS PROJECT.
28. CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND EXPOSING THE EXISTING SLEEVES INDER RIDGE ROAD AT HIS EXPENSE AS PART OF THIS WORK. THERE ARE NO KNOWN ASBUILTS AVAILABLE TO LOCATE THESE SLEEVES.
29. A PART OF THIS WORK IS TO INCLUDE THE REMOVAL AND PROPER DISPOSAL OF ANY EXISTING IRRIGATION WITHIN THESE MEDIANS. NONE OF THE EXISTING IRRIGATION SYSTEM MATERIALS AND/OR PIPING ARE TO BE USED WITH THIS PROJECT OTHER THAN THE EXISTING WATER METERS AND THE EXISTING SLEEVES SHOWN ON THESE PLANS.

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
	TREE BUBBLER	HUNTER (30 PSI)	PROS-06 WITH HUNTER #1SBN-10H NOZZLE UNLESS OTHERWISE NOTED, INSTALL (2) PER TREE PER THE LANDSCAPE ARCHITECT'S DIRECTION.
A	XERI-BUG EMITTER	RAINBIRD (25 PSI)	XB-05-PC (BLUE)
B	XERI-BUG EMITTER	RAINBIRD (25 PSI)	XB-10-PC (BLACK)
C	XERI-BUG EMITTER	RAINBIRD (25 PSI)	XB-20-PC (RED)
	XERI-BIRD 8 MULTI-OUTLET	RAINBIRD	XB-80 SERIES
	REMOTE CONTROL VALVE	RAINBIRD	PEB SERIES WITH BALL VALVE, REFER TO PLANS FOR SIZE
	CONTROLLER	WEATHERMATIC	SMARTLINE SERIES CONTROLLER WITH STAINLESS STEEL PEDESTAL, AIR CARD W/ 10 YEAR BUNDLE, WEATHER STATION, AND FLOW SENSOR
	MAINLINE PIPING	REFER TO SPEC.	CLASS 200 PVC
	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
	REMOTE CONTROL DRIP VALVE	NETAFIM	#LVCZ100075-HFHP LOW VOLUME CONTROL ZONE KIT WITH BALL VALVE, REFER TO PLAN FOR SIZE
	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TL66 SOIL STAPLES
	PLANTING BED TECHLINE TUBING	NETAFIM	CVXR-4-12 WITH TECHLINE BARBED FITTINGS, TL66 SOIL STAPLES, AND 10-F-01 TECHLINE FLAGS
	SHRUB BED TECHLINE TUBING	NETAFIM	CVXR-4-12 WITH TECHLINE BARBED FITTINGS, TL66 SOIL STAPLES, AND 10-F-01 TECHLINE FLAGS
W	EXISTING WATER METER		
I	ISOLATION VALVE	NIBCO	#T1-8, REFER TO PLAN FOR SIZE
Y	WYE STRAINER	FEBCO	#650, REFER TO PLAN FOR SIZE
	BACKFLOW PREVENTER (DCA)	FEBCO	#850BV, REFER TO PLAN FOR SIZE
M	MASTER VALVE	RAINBIRD	PEB SERIES, REFER TO PLAN FOR SIZE
F	FLOW METER	WEATHERMATIC	#SLF-1, REFER TO PLAN FOR SIZE
	STATION NUMBER VALVE SIZE GPM (APPROX.)		

PIPE SIZE CHART

FLOW/GPM:	PIPE SIZE:
0 - 4.9	1/2"
5.0 - 8.9	3/4"
9.0 - 14.9	1"
15.0 - 24.9	1-1/4"
25.0 - 37.9	1-1/2"
38.0 - 60.0	2"
60.1 - 75.0	2-1/2"

Irrigation Legend & Notes | A

NOTE:

1.) CONTRACTOR TO VERIFY EXISTING IRRIGATION SLEEVES PRIOR TO CONSTRUCTION. BORE AS REQUIRED TO AVOID DISTURBANCE TO EXISTING VEHICULAR PAVEMENT.

IRRI TECH LLC
Irrigation Technology

12650 SCHROEDER RD. DALLAS, TEXAS 75243
TEL: (972) 231-5151 FAX: (972) 231-5172
IT JOB NO.: 26040

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IRRI TECH LLC
Casey Morris LI 0021519

	Date	Description

STATE OF TEXAS
MARVIN W. PRESTRIDGE III
846
LICENSED LANDSCAPE ARCHITECT

06-12-2026

Signature of Registrant & Date

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

ROCKWALL FM 740
STREETSCAPE IMPROVEMENTS

City of Rockwall
The New Horizon

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2001 North Lamar St,
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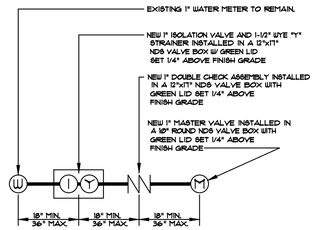
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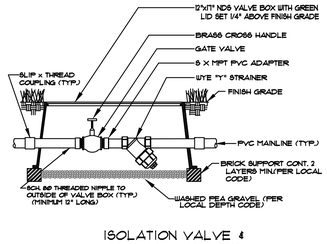
IRRIGATION LEGEND & NOTES PLAN

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT.		HIGHWAY NO.
GRAPHICS	6	(SEE TITLE SHEET)		FM 740
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	ROCKWALL	95
CHECK	CONTROL	SECTION	JOB	
	1014	03	063	



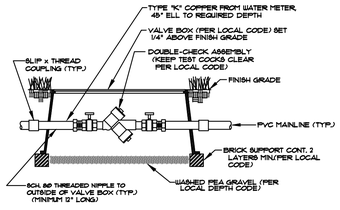
1" WATER SOURCE LAYOUT

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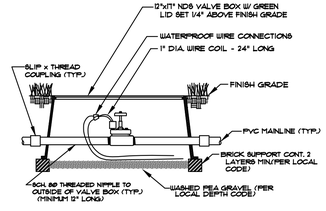
ISOLATION VALVE & WYE "Y" STRAINER

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DOUBLE CHECK ASSEMBLY

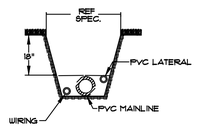
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MASTER VALVE

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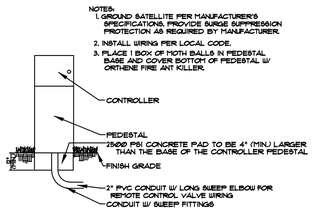
MAINLINE, LATERAL, AND WIRING



1. TAPE 4 BUNDLE WIRING AT 10'-0" INTERVALS.

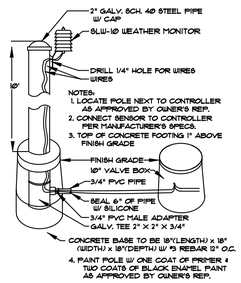
TRENCHING DETAIL

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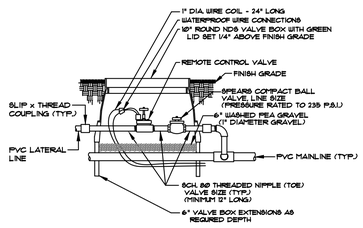
CONTROLLER WITH PEDESTAL

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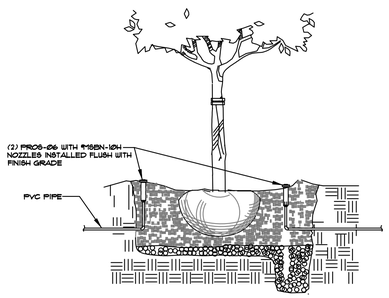
WEATHER MONITOR

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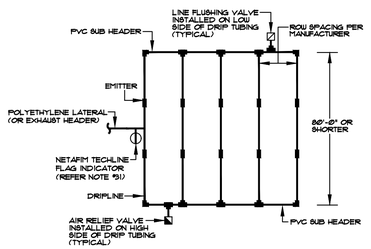
REMOTE CONTROL VALVE

NOT TO SCALE © TTC



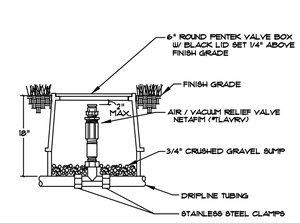
ORNAMENTAL TREE BUBBLER SYSTEM

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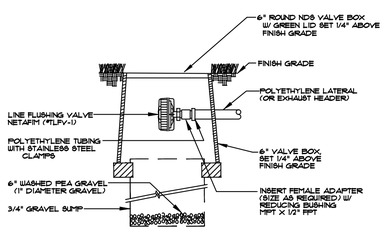
TYPICAL DRIPLINE LAYOUT

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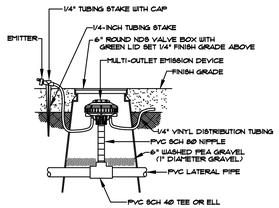
NETAFIM AIR RELIEF VALVE

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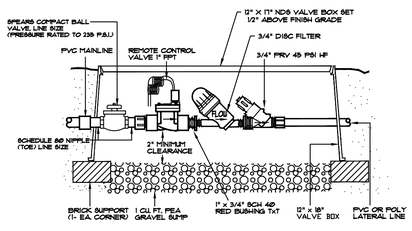
NETAFIM FLUSH VALVE

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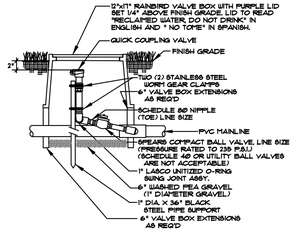
XERI-BIRD

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LOW VOLUME CONTROL ZONE ASSEMBLY

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QUICK COUPLING VALVE W/ BALL VALVE

NOT TO SCALE © TTC

Irrigation Details | A

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STREETSCAPE IMPROVEMENTS

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0 10 20 40
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	1014	03	063	