CITY OF MESQUITE, TEXAS
NORTHWEST DRIVE SCREENING WALL RECONSTRUCTION
CITY CONTRACT NO. 2025-153

MESQUITE
TEXAS
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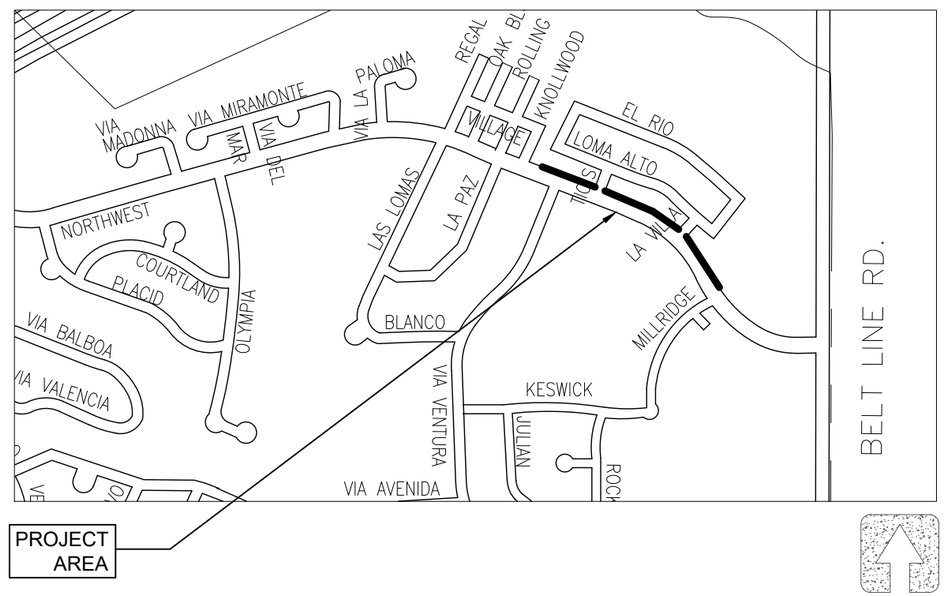

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CITY OFFICIALS

DANIEL ALEMAN, JR.	MAYOR
JEFF CASPER	DISTRICT 1
KENNY GREEN	DISTRICT 2
ELIZABETH RODIGUEZ-ROSS	DISTRICT 3
TANDY BOROUGHS	DISTRICT 4
B.W. SMITH	DISTRICT 5
BRANDON MURDEN	DISTRICT 6
CLIFF KEHELEY	CITY MANAGER
ERIC GALLT P.E.	PUBLIC WORKS DIRECTOR

CITY OF MESQUITE
Public Works Department - Engineering Division
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STATE OF TEXAS
LUIS F. CARDOZA
141809
LICENSED
PROFESSIONAL ENGINEER

6/16/2025

Texas811

June 2025

GENERAL CONSTRUCTION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY COMPANIES (811) & MESQUITE UTILITIES DISPATCH OFFICE (972-216-6973) TO ARRANGE FOR EXACT LOCATIONS AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM THE FIELD SURVEY, AS-BUILTS PROVIDED BY THE CITY AND INFORMATION PROVIDED BY THE UTILITY COMPANIES. THE COMPLETENESS AND THE ACCURACY OF THIS DATA IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES AND PROTECTING THEM FROM DAMAGE DURING CONSTRUCTION.

2. STANDARD DETAILS FOR THIS PROJECT SHALL FIRST APPLY TO CITY OF MESQUITE STANDARD DETAILS AND THEN THOSE SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS.

3. CONTRACTOR SHALL COORDINATE WITH THE CITY'S CONSTRUCTION INSPECTOR TO DESIGNATE TREES WITHIN THE CITY AND/OR TXDOT RIGHT OF WAY THAT WILL INTERFERE WITH CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND/OR TRIMMING THE DESIGNATED TREES. IN ADDITION, CONTRACTOR SHALL COORDINATE WITH THE CITY'S CONSTRUCTION INSPECTOR TO DESIGNATE TREES ON PRIVATE PROPERTY THAT WILL INTERFERE WITH CONSTRUCTION. TREES ON PRIVATE PROPERTY SHALL EITHER BE REMOVED OR TRIMMED BY THE CONTRACTOR TO ALLOW FOR CONSTRUCTION AFTER COORDINATION WITH PROPERTY OWNERS.

4. LANDSCAPING PLACED IN THE CITY RIGHT OF WAY BY THE PROPERTY OWNERS WHICH WILL INTERFERE WITH THE CONSTRUCTION DESIGNATED IN THESE PLANS, SHALL BE REMOVED BY THE CITY, ONLY AFTER THE PROPERTY OWNER HAS BEEN NOTIFIED AND GIVEN THE OPPORTUNITY TO RELOCATE THE LANDSCAPING.

5. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING HOMEOWNER LAWNS, FENCES, FRENCH DRAINS, SHRUBBERY, IRRIGATION SYSTEMS, SHEDS, AC UNITS, AND POOLS CAUSED BY CONSTRUCTION AT HIS EXPENSE. ALL DAMAGED GRASS AREAS ARE TO BE REPLACED WITH SOD OF LIKE KIND.

6. ALL COSTS FOR LABOR AND MATERIALS REQUIRED FOR CONSTRUCTION JOINTS, EXPANSION JOINTS, DOWELED PAVEMENT JOINTS, AND SAWCUT ARE INCIDENTAL TO ALL OTHER BID ITEMS. ALL SAWCUTS OF EXISTING PAVEMENT ARE TO BE FULL-DEPTH.

7. CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING. CONTRACTOR IS RESPONSIBLE FOR HORIZONTAL AND VERTICAL CONTROL AND GRADES. CONTRACTOR MUST SET STRING LINES FOR SCREENING WALL CONSTRUCTION AND OBTAIN CITY INSPECTOR APPROVAL OF GRADE PRIOR TO SETTING FORMS. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT STORMWATER RUNOFF IS NOT TRAPPED IN YARDS BY THE CONSTRUCTION OF THE SCREENING WALLS.

8. RIGHT-OF-WAY STAKING SHALL BE PERFORMED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF TEXAS IN ORDER TO DETERMINE RIGHT-OF-WAY ALONG THE WALL CONSTRUCTION LIMITS. PAYMENT SHALL BE ON A UNIT-PRICE BASIS OF PER LINEAR FOOT OF SCREENING WALL STAKED.

9. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE SCHEDULE. THE CONSTRUCTION SCHEDULE IS TO BE SUBMITTED TO THE CITY FOR APPROVAL.

10. TRAFFIC CONTROL DEVICE NOTE: CONTACT TRAFFIC ENGINEERING DIVISION, 972-216-6917, AT LEAST 48 HOURS PRIOR TO WORK REQUIRING THE REMOVAL OR RELOCATION OF TRAFFIC SIGNS, TRAFFIC CONTROL EQUIPMENT, OR OTHER TRAFFIC CONTROL APPURTENANCES. CITY WILL REMOVE SIGNS.

11. THE CONTRACTOR SHALL PROVIDE THE CITY ENGINEER WITH A TRAFFIC CONTROL PLAN AT LEAST 48 HOURS BEFORE ANY WORK IN A CITY STREET. TRAFFIC CONTROL MEASURES SHALL CONFORM TO PART VI OF THE 'TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND THE CITY OF MESQUITE 'WORK ZONE TRAFFIC CONTROL MANUAL'.

12. THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A PRE-CONSTRUCTION VIDEO OF THE PROJECT LIMITS CLEARLY SHOWING THE LOCATION OF ALL IMPROVEMENTS WITHIN AND ADJACENT TO THE PROJECT AREA. FAILURE TO DOCUMENT THE CONDITION OF EXISTING IMPROVEMENTS MAY RESULT IN THE CONTRACTOR BEING REQUIRED TO REPAIR OR REPLACE DAMAGED PROPERTY OR FACILITIES.

13. CONTRACTOR TO MATCH REMOVED CONNECTING FENCE MATERIAL. BID ITEMS FOR FENCE INCLUDE TOTAL FENCE REPLACEMENT.

14. MATERIAL TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY THE CONTRACTOR, WITH RESULTS FORWARDED TO THE CITY.

15. NO WATER, RAIN SPOTS, WASH, POLY COVERING OR SURFACE MARKING DAMAGE OF ANY KIND WILL BE ACCEPTED. ANY CONCRETE PLACED LATE IN THE DAY MUST BE MANNED AND PROTECTED FROM DAMAGE.

16. ALL EXCESS MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

17. EXISTING R.O.W. SHOWN GRAPHICALLY ON THE PLANS IS FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE USED FOR DETERMINATION OF PROPERTY LINES.

18. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL THROUGHOUT CONSTRUCTION. THE FOLLOWING ARE NOT REQUIRED; STABILIZED CONSTRUCTION EXITS, SILT FENCE FOR THE ENTIRE PROJECT LIMITS, AN SWPPP, AN NOI, A CSN, AND A GENERAL PERMIT.

19. ALL AREAS DISTURBED DURING CONSTRUCTION WILL BE SODDED WITH GRASS THAT MATCHES EXISTING LAWN. SODDING AND FERTILIZING SHALL BE DONE IN ACCORDANCE WITH THE N.C.T.C.OG. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ITEM 202.5). THE CONTRACTOR SHALL MAINTAIN SODDED AREAS FOR A TWO (2) WEEK PERIOD FOLLOWING PLANTING AND/OR UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE CITY.

TABLE OF QUANTITIES

Item	Description	Units	Sheet			Plan QTY	Bid QTY
			3	4	5		
1	Mobilization (Max 5% of Bid)	LS				1	1
2	Traffic Control and Barricades	LS				1	1
3	Implementation of Erosion Control Devices	LS				1	1
4	Remove Existing Screening Wall including Grade Beam , Mow Strip, Columns & Piers	LF	425	435	290	1150	1200
5	Remove Existing Concrete Sidewalk	SY	230	225	35	490	520
6	Remove Decorative Concrete Footing/Grade Beam & Brick	LS				1	1
7	Remove Tree, 12" Diameter or Greater	EA			1	1	2
8	Trim Existing Trees/Clear Shrubs	LS				1	1
9	Remove, Store & Remount Cast Stone Sign in New Wall	EA	1	1		2	2
10	Remove & Replace Existing Fence (Wood)	LF	60	60	60	180	180
11	Remove & Replace Existing Fence (Metal)	LF			20	20	20
12	Construct 4" Thick Reinforced Concrete Sidewalk	SY	230	225	35	490	520
13	Construct ADA Ramp, Including Limits of Pay Item as Shown on Details and Including Removal and Disposal of Existing Concrete (TYPE D)	EA	1	2	1	4	4
14	Install 6-foot Tall Screening Wall (RHINOROCK)	LF	425	435	290	1150	1200
15	Construct Variable Height Concrete Mow Strip	LF	425	435	290	1150	1200
16	Installation of Sod to Match Existing Turf	SY	370	385	260	1015	1150
17	Right-of-Way & Construction Staking	LS				1	1
18	Install, Maintain and Remove Temp. Const. Chain Link Fence (6-foot Tall) with Privacy Netting	LF	425	415	270	1110	1110
19	Irrigation Repair Allowance	ALW				1	1

NORTHWEST DRIVE SCREENING WALL RECONSTRUCTION
CONTRACT# 2025-153

MESQUITE TEXAS
Real. Texas. Flavor.

STATE OF TEXAS
LUIS F. CARDOZA
141809
LICENSED
PROFESSIONAL ENGINEER

GENERAL NOTES FOR CONSTRUCTION ACTIVITIES:

1. ALL WORK SHALL CONFORM TO THE CITY OF MESQUITE'S GENERAL DESIGN STANDARDS. IN THE EVENT AN ITEM OF WORK IS NOT COVERED IN THE PLANS OR THE CITY OF MESQUITE GENERAL DESIGN STANDARDS, THE MOST CURRENT NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE MOST CURRENT VERSION OF TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES SHALL APPLY WITH CONCURRING NOTIFICATION TO THE CITY ENGINEER AND THE PROJECT ENGINEER. THE CITY ENGINEER SHALL HAVE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS, AND PROCEDURES.

2. ALL CONTRACTORS AND DEVELOPERS, WITH THEIR EMPLOYEES AND AGENTS, SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ORDINANCES RULES, REGULATIONS AND ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY TO PROTECT THEM FROM DEATH, INJURY, DAMAGE OR LOSS.

3. ALL COMMUNICATION BETWEEN THE CITY AND THE CONTRACTOR SHALL BE THROUGH THE ENGINEERING CONSTRUCTION INSPECTOR AND CITY ENGINEER ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE DEPARTMENT FOR INSPECTIONS OF WORK NOT FALLING UNDER THE ENGINEERING CONSTRUCTION PERMIT.

4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL HAVE IN THEIR POSSESSION ALL NECESSARY PERMITS, PLANS, LICENSES, ETC. CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY COMPANIES TO ARRANGE FOR EXACT LOCATIONS AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE COMPLETENESS AND ACCURACY OF THE UTILITY DATA SHOWN ON THE PLANS IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING, TRENCHING, OR DRILLING AND SHALL BE REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND / OR ANY OTHER UNDERGROUND UTILITIES NOT ON RECORD OR NOT SHOWN ON THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO UTILITIES IF THE DAMAGE IS CAUSED BY NEGLIGENCE OR FAILURE TO HAVE LOCATES PERFORMED.

   i. TEXAS 811 — 811
   ii. CITY OF MESQUITE UTILITIES — 972-216-6940
   iii. CITY OF MESQUITE TRAFFIC — 972-216-6278

6. VERIFICATION OF THE CONDITION OF EXISTING CITY UTILITIES PRIOR TO CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REQUEST FOR LINE LOCATES AS DIRECTED IN ITEM #5.

7. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS. DAMAGE TO EXISTING IRRIGATION SYSTEMS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION BY A LICENSED IRRIGATOR AT THE CONTRACTOR'S EXPENSE.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES OR ADJACENT PROPERTIES DURING CONSTRUCTION. ANY REMOVAL OR DAMAGE TO EXISTING FACILITIES OR ADJACENT PROPERTIES SHALL BE REPLACED OR REPAIRED TO EQUAL OR BETTER CONDITION BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE ALL REPAIRS TO PRIVATE PROPERTY WITH THE PROPERTY OWNER. CONTRACTOR SHALL PAY AND/OR SETTLE WITH PRIVATE PROPERTY OWNER FOR ALL COSTS RELATED TO ANY DAMAGE. FOR MORE DETAIL, REFER TO **NCTCOG 107.24.**

9. TESTING AND INSPECTION OF MATERIALS SHALL BE PERFORMED BY A COMMERCIAL TESTING LABORATORY APPROVED BY THE CITY. CONTRACTOR SHALL FURNISH MATERIALS OR SPECIMENS FOR TESTING, AND SHALL FURNISH SUITABLE EVIDENCE THAT THE MATERIALS PROPOSED TO BE INCORPORATED INTO THE WORK ARE IN ACCORDANCE WITH THE SPECIFICATIONS. ALL TESTING AND RE-TESTING COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FOR MORE DETAIL, REFER TO **NCTCOG 106.5.**

10. CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.

11. ALL SHOP DRAWINGS, WORKING DRAWINGS OR OTHER DOCUMENTS WHICH REQUIRE REVIEW BY THE CITY SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF SCHEDULED CONSTRUCTION TO ALLOW NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE BY THE CITY.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING AND STAKING AND SHALL NOTIFY THE CITY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH ANY WORK. FOR MORE DETAIL, REFER TO **NCTCOG 105.4.**

13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SURVEY MARKERS INCLUDING IRON RODS, PROPERTY CORNERS, OR SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE RIGHT-OF-WAY DURING CONSTRUCTION. ANY SURVEY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.

14. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHT-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND THE CITY. THE PROJECT SHALL NOT BE ACCEPTED UNTIL THE CONTRACTOR PROVIDES A LETTER FROM THE PROPERTY OWNER STATING THEY ARE SATISFIED WITH THE CONDITION OF THE PROPERTY.

15. UNUSABLE EXCAVATED MATERIAL OR CONSTRUCTION DEBRIS SHALL BE REMOVED AND DISPOSED OF OFFSITE AT AN APPROVED DISPOSAL FACILITY BY THE CONTRACTOR.

16. ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).

GENERAL NOTES FOR EROSION CONTROL/STORM WATER POLLUTION PREVENTION:

17. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF MESQUITE'S STORM WATER ORDINANCE, THE TDPES GENERAL CONSTRUCTION PERMIT TXR150000 AND ANY OTHER STATE AND/OR LOCAL REGULATIONS.

18. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND DRIVEWAYS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS AT ALL TIMES. CONTRACTOR SHALL CLEAN UP AND REMOVE ALL LOOSE MATERIAL RESULTING FROM CONSTRUCTION OPERATIONS. STOCKPILING OR STAGING OF MATERIALS WILL NOT BE ALLOWED IN RIGHT-OF-WAY WITHOUT PRIOR AUTHORIZATION. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. ANY DIRT, MUD OR DEBRIS TRACKED OFFSITE SHALL BE CLEANED UP BY THE CONTRACTOR IMMEDIATELY.

19. ALL EROSION CONTROL DEVICES SHOWN ON THE PLANS RELEASED FOR CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE SWPPP SEQUENCING PRIOR TO COMMENCING ANY EARTH DISTURBING ACTIVITIES. FAILURE TO INSTALL THE EROSION CONTROL DEVICES BEFORE STARTING THE EARTH DISTURBING ACTIVITIES MAY RESULT IN SANCTIONS INCLUDING, BUT NOT LIMITED TO, WITHHOLDING OF RELEASE OF CONSTRUCTION PERMITS, INSPECTIONS, PAYMENT OF CITY FUNDED PORTIONS OF THE PROJECT, SUSPENSION OF CONSTRUCTION ACTIVITIES, OR CITATIONS. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH THE PROJECT PLANS, CITY STORMWATER ORDINANCE AND/OR SWPPP AND CONSTRUCTION GENERAL PERMIT. THE CONTRACTOR SHALL INSPECT THE SITE DAILY AND KEEP THE SITE FREE OF TRASH AND CONSTRUCTION DEBRIS.

20. CONTRACTOR MUST EXECUTE AND KEEP A COPY OF THE CONSTRUCTION SITE NOTICE (CSN) FOR THOSE ACTIVITIES DISTURBING MORE THAN 1 ACRE AND A NOTICE OF INTENT (NOI) FOR THOSE ACTIVITIES DISTURBING 5 ACRES OR MORE.

GENERAL NOTES FOR TRAFFIC CONTROL:

21. CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH A TRAFFIC CONTROL PLAN AT LEAST 10 BUSINESS DAYS BEFORE ANY WORK ON A CITY STREET. TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)

22. CONTACT TRAFFIC ENGINEERING DIVISION, 972-216-6917, AT LEAST 48 HOURS PRIOR TO WORK REQUIRING THE REMOVAL OR RELOCATION OF TRAFFIC SIGNS, TRAFFIC CONTROL EQUIPMENT OR OTHER TRAFFIC CONTROL APPURTENANCES. ONLY CITY TRAFFIC PERSONNEL SHALL REMOVE TRAFFIC SIGNS.

23. IN THE EVENT THE CONSTRUCTION WORK REQUIRES THE CLOSURE OF AN EXISTING STREET, ALLEY, OR FIRE LANE, THE CONTRACTOR SHALL REQUEST THE ROAD CLOSURE THROUGH THE CITY INSPECTOR A MINIMUM OF 48 HOURS IN ADVANCE OF THE REQUESTED CLOSURE. CLOSURES WILL NOT BE ALLOWED PRIOR TO 9:00 A.M. OR AFTER 3:30 P.M. MONDAY THROUGH FRIDAY UNLESS OTHERWISE APPROVED BY THE CITY. IN THE EVENT A DRIVEWAY(S) NEEDS TO BE CLOSED, THE CONTRACTOR SHALL REQUEST THE DRIVEWAY CLOSURE THROUGH THE CITY INSPECTOR, WHO WILL IN TURN NOTIFY DISPATCH AND OTHER PERTINENT CITY DEPARTMENTS. CLOSURES ARE PROHIBITED DURING SCHOOL ZONES TIMES IN AND AROUND SCHOOLS.

24. IF THE CONSTRUCTION ZONE AFFECTS THE MOVEMENTS OF PEDESTRIANS, ADEQUATE PEDESTRIAN ACCESS AND WALKWAYS SHALL BE PROVIDED IN ACCORDANCE WITH THE DISABILITIES ACT ACCESSIBILITY GUIDELINES, PROWAG, TAS AND THE TMUTCD. WHERE DEVELOPMENTS OCCUR WITHIN 0.5 MILES OF A SCHOOL SITE, TEMPORARY SIDEWALKS MUST BE CONSTRUCTED CONNECTING THE DEVELOPMENT TO THE SCHOOL SITE. THE ROUTE SHALL BE APPROVED BY THE CITY ENGINEER. TEMPORARY SIDEWALKS MAY BE CONSTRUCTED WITH MATERIALS OTHER THAN CONCRETE. THE MATERIAL SHALL BE APPROVED BY THE CITY ENGINEER AND BE AN ALL-WEATHER MATERIAL OF A COLOR AND TEXTURE DISTINCTLY DIFFERENT FROM THE PERMANENT SIDEWALK.

25. OVERNIGHT LANE CLOSURES SHALL BE APPROVED BY CITY PRIOR TO CLOSING THE LANE. ANY LANE OR SHOULDER CLOSURE ON AN ARTERIAL ROAD THAT EXTENDS INTO THE NIGHT SHALL REQUIRE THE MANDATORY USE OF ARROW BOARDS.

GENERAL NOTES FOR PAVING

26. ABSOLUTELY NO EARTHWORK, LIME APPLICATION, OR OTHER PREPARATION OF THE SUBGRADE FOR PAVING OF STREETS, ALLEYS, SIDEWALKS, TRAILS, FIRE LANES OR OTHER TRANSPORTATION RELATED FLATWORK SHALL BE INITIATED WITHOUT AUTHORIZATION FROM THE CITY. THE CITY WILL AUTHORIZE THE SUBGRADE WORK IN PREPARATION FOR PAVING AFTER UTILITY TRENCH BACKFILL TESTING HAS BEEN COMPLETED AND VERIFIED TO MEET THE CITY REQUIREMENTS.

27. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE TEXAS ARCHITECTURAL BARRIERS ACT. THE CITY OF MESQUITE HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, TEXAS ARCHITECTURAL BARRIERS ACT, OR ANY OTHER ACCESSIBILITY LEGISLATION, AND DOES NOT WARRANTY OR APPROVE THESE PLANS FOR ANY ACCESSIBILITY STANDARDS. PRIOR TO PROJECT ACCEPTANCE, THE CONTRACTOR SHALL SUBMIT TO THE CITY DOCUMENTATION THAT THE PROJECT WAS INSPECTED BY A REGISTERED ACCESSIBILITY SPECIALIST, REGISTERED WITH THE TEXAS DEPARTMENT OF LICENSING AND REGULATION CERTIFYING THE PROJECT IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE TEXAS ARCHITECTURAL BARRIERS ACT.

28. ALL CONCRETE PAVING (STREETS, ALLEYS, SIDEWALKS, DRIVEWAYS) WITHIN CITY ROW SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI, CONTAINING A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD , WITH A SLUMP RANGE OF 1" TO 3" SLUMP FOR MACHINE POURS AND 3" TO 5" SLUMP FOR HAND POURS UNLESS OTHERWISE NOTED IN THE GENERAL DESIGN STANDARDS. ALL MATERIALS AND REQUIREMENTS FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT NCTCOG ITEM "PORTLAND CEMENT CONCRETE PAVEMENT" WITH THE EXCEPTION THAT FLY ASH MAY BE SUBSTITUTED FOR UP TO 20% OF THE CEMENT CONTENT REQUIREMENT AT 1 TO 1.25 CEMENT TO FLY ASH SUBSTITUTION RATE.

29. ALL CONCRETE MUST BE MECHANICALLY VIBRATED. THE FORMING OF NEW STREET AND ALLEY PAVEMENT IS BY USING THE SLIP FORM METHOD. CONCRETE SHALL BE HAND PLACED AT INTERSECTIONS AND MISCELLANEOUS AREAS.

30. TEMPERATURE DURING CONCRETE PLACEMENT:
   a. THE TEMPERATURE OF CONCRETE AS PLACED SHALL NOT EXCEED 95°F.
   b. NO CONCRETE SHALL BE PLACED ON A FROZEN SUBGRADE.
   c. IF THE AMBIENT AIR TEMPERATURE IS LESS THAN 40°F AND DROPPING CONCRETE SHALL NOT BE PLACED.
   d. IF CONCRETE IS PLACED AND THERE IS AN ANTICIPATED LOW TEMPERATURE OF LESS THAN 40°F WITHIN 5 DAYS AFTER PLACEMENT THE CONCRETE MUST BE COVERED AND KEPT AT A TEMPERATURE OF NOT LESS THAN 50°F.
   e. IN ALL CASES, CONCRETE SHOULD NOT BE KEPT AT A TEMPERATURE OF LESS THAN 50°F FOR A PERIOD OF 5 DAYS MINIMUM.

31. REINFORCING SHALL CONFORM TO ASTM A 615 AND BE A MINIMUM GRADE OF 60 PER ASTM A 370. REINFORCING STEEL BAR LAPS ARE TO BE 30 BAR DIAMETERS OR 15" PER ACI 318, WHICHEVER IS GREATER. A MINIMUM OF 50% OF REBAR INTERSECTIONS ARE TO BE SECURED WITH TIE WIRE AND SUPPORTED WITH CHAIRS. ALL REINFORCEMENT SHALL BE FREE FROM RUST, SCALE, OIL, PAINT AND OTHER SUBSTANCES WHICH PREVENT BONDING TO THE CONCRETE. UNLESS OTHERWISE SPECIFIED, STEEL SHALL BE PLACED AT HALF THE PAVEMENT DEPTH.

32. WHITE CURING COMPOUND IS TO BE APPLIED, PER MANUFACTURER'S RECOMMENDATIONS, TO ALL EXPOSED CONCRETE SURFACES (INCLUDING BACKS OF CURBS) IMMEDIATELY AFTER COMPLETION OF FINISHING OPERATIONS, PER ASTM C-309, TYPE 2, NCTCOG SECTION 303.2.13.1.1.

33. NO VEHICLE TRAFFIC SHALL BE PERMITTED ON NEWLY PAVED AREAS FOR SEVEN DAYS AFTER CONCRETE POUR OR UNTIL 3,000 PSI IS ACHIEVED.

34. ALL FILL AND LIME SUBGRADES SHALL BE PLACED IN MAXIMUM 8" COMPACTED LIFTS AND BE COMPACTED TO 95% STANDARD PROCTOR AT A MOISTURE RANGE OF 0% TO 6% OF OPTIMUM MOISTURE. MOISTURE LEVEL MUST BE MAINTAINED, BY WETTING OR APPLICATION OF ASPHALT EMULSION PRIME COAT (0.25 TO 0.50 GAL/SY) IF NECESSARY, UNTIL PLACING OF CONCRETE PAVING.

REQUIRED TESTING

MATERIAL	DESIGNATION	TEST	FREQUENCY	REQUIREMENTS	NOTES
SUBGRADE	ASTM D-6938	IN-PLACE DENSITY AND WATER CONTENT	EVERY 300 LINEAR FEET (1)	MOISTURE CONTENT: 0% - 6% OF OPTIMUM; DENSITY: 95% OF STANDARD PROCTOR	EVERY 8" LIFT
		LIME STABILIZED SUBGRADE - DEPTH CHECK		DEPTH OF STABILIZATION AS SPECIFIED PER PLANS	
		LIME STABILIZED SUBGRADE - SIEVE ANALYSIS		1.75" SIEVE: 100% PASSING; NO. 4 SIEVE: 60%	
	ASTM D-698	PROCTOR	EVERY NEW MATERIAL SOURCE		
CONCRETE PAVING	ASTM C- 143	SLUMP OF PORTLAND CEMENT	FIRST TRUCK EACH DAY + 1 EVERY 150 CY	1" - 3" MACHINE POURS; 3" - 5" HAND POURS	
	ASTM C-231	CONCRETE AIR CONTENT BY PRESSURE METHOD (FOR FRESH CONCRETE)		MINIMUM 3%	
	ASTM C- 1064	TEMPERATURE OF FRESHLY MIXED PORTLAND CEMENT CONCRETE	EVERY TRUCK	95 F MAX (HOT WEATHER) AND 50 F MIN (COLD WEATHER)	
	ASTM C-39	COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS	3 CYLCINDERS TAKEN FROM FIRST TRUCK EVERY DAY + 3 EVERY 150 CY	3,000 PSI MINIMUM FOR TRAFFIC; 4,000 PSI MINIMUM AT 28 DAYS	1 BROKEN AT 7 DAYS AND THE OTHER 2 BROKEN AT 28 DAYS; IF NEEDING TO GET TRAFFIC ON PAVEMENT FASTER THEN ADDITIONAL CYLINDER BROKEN AT 3 DAYS
	ASTM C-42	OBTAINING AND TESTING OF DRILLED CORES OF CONCRETE	EVERY 300 LINEAR FEET (1)	4,000 PSI COMPRESSIVE AT 28 DAYS	4" DIAMETER TAKEN 28 DAYS AFTER POUR
	ASTM C-174	MEASURING LENGTH OF DRILLED CONCRETE CORES		DEPTH OF PAVEMENT AS SPECIFIED PER PLANS	

NOTES: (1) PER LANE, TRENCH, ALLEY OR SIDEWALK

GENERAL NOTES FOR TRENCHING AND CONFINED SPACE

35. ALL EXCAVATION AND TRENCH OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH 29 CODE OF FEDERAL REGULATIONS (CFR), PART 1926, SUBPART P AND ALL OTHER APPLICABLE STATE AND CITY REGULATIONS. PRIOR TO COMMENCING ANY EXCAVATION OR TRENCHING OPERATION, THE CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A PLAN SEALED BY A TEXAS LICENSED PROFESSIONAL ENGINEER INDICATING THE INTENDED PROCEDURES TO BE USED BY THE CONTRACTOR TO COMPLY WITH OSHA REQUIREMENTS. SUCH PLAN SHALL FURTHER IDENTIFY THE "COMPETENT PERSON" AS REQUIRED BY PARAGRAPH 1926.651(K)(1) THAT WILL WORK WITH EACH CREW. AN AFFIDAVIT FROM THE CONTRACTOR INDICATING THE COMPETENT PERSON MUST BE SUBMITTED WITH THE TRENCH SAFETY PLAN TO THE CITY ENGINEER. A COPY OF THE TRENCH SAFETY PLAN MUST BE ON THE JOB AT ALL TIMES. THE CITY RESERVES THE RIGHT TO DENY PAYMENT FOR ANY CONSTRUCTION ACTIVITIES IN EXCAVATIONS OR TRENCHES THAT ARE NOT IN ACCORDANCE WITH THE SUBMITTED PLAN. THE CITY DOES NOT APPROVE OR DISAPPROVE TRENCH SAFETY PLANS, BUT WILL RETAIN A FILE COPY.

36. IMPLEMENTATION OF TRENCH SAFETY SHALL COMPLY WITH SUBMITTED TRENCH SAFETY DESIGN PLAN. SUBMIT DESIGNATED COMPETENT PERSON WHO WILL BE ON-SITE FULL TIME AND IS CAPABLE OF IDENTIFYING EXISTING AND PREDICTABLE HAZARDS IN SURROUNDING OR WORK CONDITIONS WHICH ARE UNSANITARY, HAZARDOUS, OR DANGEROUS TO EMPLOYEES AND WHO HAS THE AUTHORIZATION TO TAKE PROMPT CORRECTIVE MEASURES TO ELIMINATE THEM. INSTALL, OPERATE, MAINTAIN, ADJUST, AND REMOVE TRENCH SAFETY EQUIPMENT, AND PRECAUTIONS IN ACCORDANCE WITH TRENCH SAFETY DESIGN.

37. ALL ENTRY INTO CONFINED SPACES SHALL BE CONDUCTED IN ACCORDANCE WITH 29 CODE OF FEDERAL REGULATIONS (CFR), PART 1910.147 P AND ALL OTHER APPLICABLE STATE AND CITY REGULATIONS. PRIOR TO COMMENCING ANY CONFINED SPACE ENTRY, THE CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A COPY OF THE CONFINED SPACE ENTRY PLAN WITH A COMPLETED PERMIT.

GENERAL NOTES FOR UTILITIES

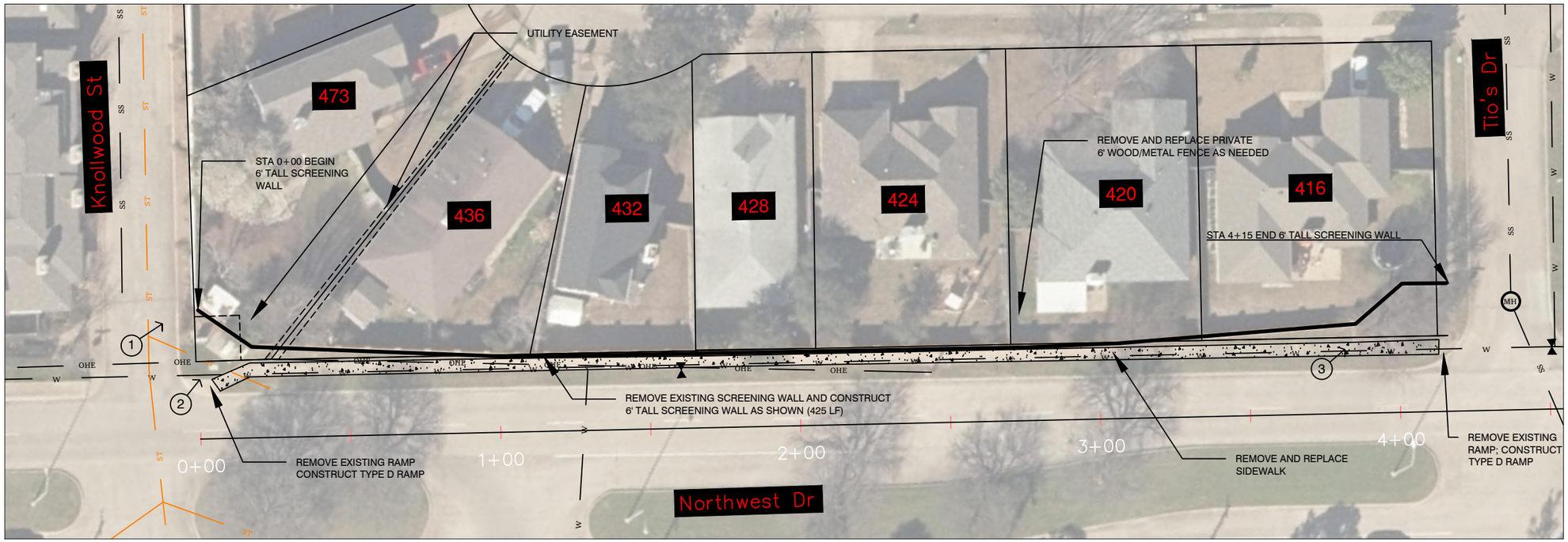
38. ALL WATER AND WASTEWATER MAINS THAT ARE PROPOSED TO BE ABANDONED WITHIN STREET ROW AND LESS THAN 10 FEET IN DEPTH, UNDER ANY MAJOR INTERSECTIONS, OR IN AREAS THAT COULD IMPACT MAJOR INFRASTRUCTURE, SHALL BE ABANDONED BY DRAINING THE EXISTING MAIN AND CUTTING AND FILLING THE EXISTING MAIN WITH GROUT.

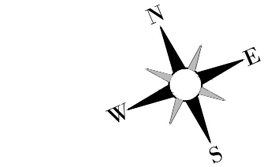
CITY OF MESQUITE, TEXAS
PUBLIC WORKS DEPARTMENT
STANDARD DETAILS

MESQUITE TEXAS Real. Texas. Service.

GENERAL DESIGN STANDARDS
STANDARD DETAILS

SCALE: N.T.S
REVISION DATE: 05/17/2022
SHEET: G-GN





1" = 40 FT

0 40 80

Proposed Sidewalk

Proposed Screen Wall

Photo & Direction

Water Meter

Sewer Manhole

Reducer

Fire Hydrant

Existing Valve

SS Existing Sewer Line

W Existing Water Line

OHE Existing Overhead Electricity

ST Storm Line

1

WALL TO REMAIN IN PLACE

2

STRUCTURES TO BE REMOVED BY PROPERTY OWNER

CAUTION - AT&T BOXES

3

CONTRACTOR SHALL REMOVE AND SALVAGE EX. ENTRANCE SIGN AND RECESS MOUNT ON PROPOSED WALL. (EXACT LOCATION TO BE COORDINATED WITH CITY CONSTRUCTION INSPECTOR

REMOVE
DECORATIVE
FOOTING & BRICK

1. ALL SCREENING WALLS SHALL COMPLY WITH CITY OF MESQUITE GENERAL DESIGN STANDARDS FOR SCREENING WALLS.
2. STATIONING IS ALONG NORTHWEST DRIVE.
3. CONTRACTOR SHALL TRIM OR REMOVE EXIST TREES THAT ARE ADJACENT TO PROPOSED WALL & IN CONFLICT WITH CONSTRUCTION. CONTACT CITY INSPECTOR PRIOR TO REMOVING/TRIMMING TREES/SHRUBS
4. CONTRACTOR SHALL IDENTIFY LOCATIONS OF EXISTING DRILL SHAFTS TO AVOID THEM WHEN SETTING NEW PIER LOCATIONS AND ADJUST ACCORDINGLY.
5. CONTRACTOR SHALL REMOVE & SALVAGE EX. ENTRANCE SIGN & RECESS MOUNT IT ON PROPOSED WALL. LOCATION SHALL BE COORDINATED WITH CITY CONSTRUCTION INSPECTOR.

CAUTION EXISTING UTILITIES!

CONTRACTOR TO CALL FOR LOCATES 48 HRS. PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING UTILITIES DAMAGED DURING CONSTRUCTION

MESQUITE TEXAS
Real. Texas. Flavor.

PUBLIC WORKS DEPARTMENT

EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE THE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

NORTHWEST DRIVE SCREENING WALL RECONSTRUCTION
CONTRACT# 2025-153

SCREENING WALL PLAN - 1

REVISIONS

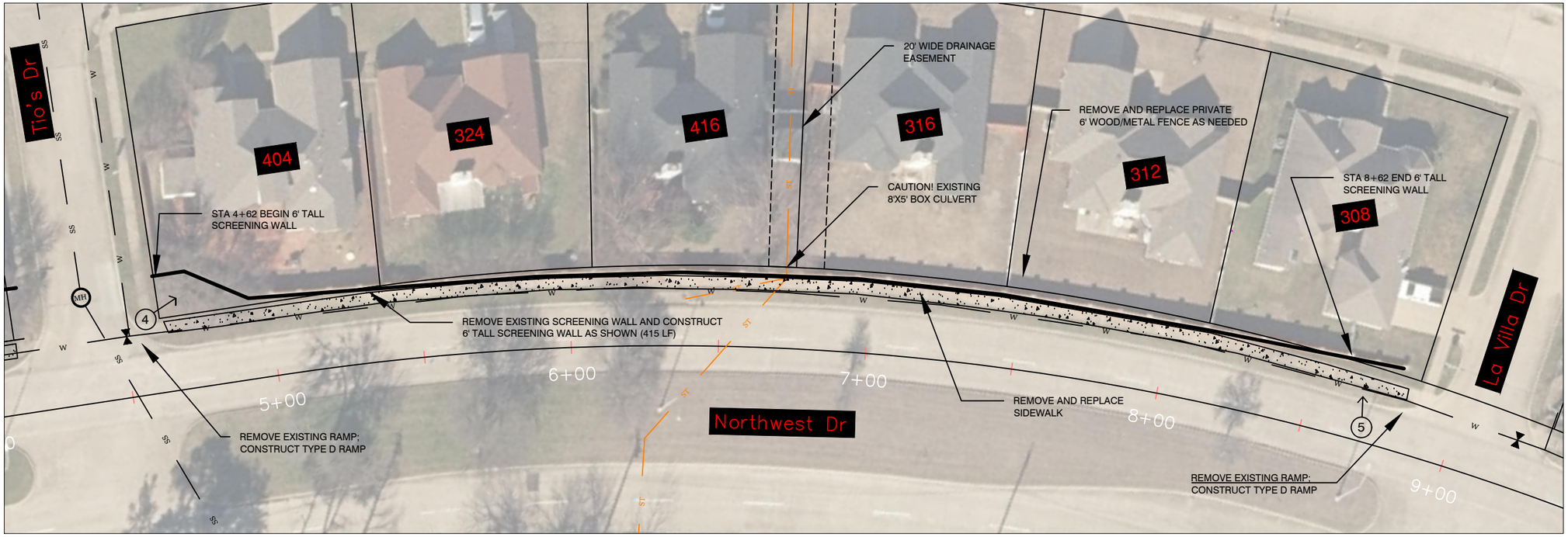
SCALE 1" = 40'

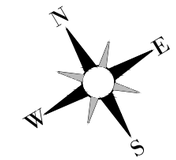
DRAWN BY: LC

DATE: 6/10/2025

SHEET: 3

STATE OF TEXAS
LUIS F. CARDOZA
141809
LICENSED
PROFESSIONAL ENGINEER





1" = 40 FT

0 40 80

Proposed Sidewalk

Proposed Screen Wall

Photo & Direction Taken

Water Meter

Sewer Manhole

Reducer

Fire Hydrant

Existing Valve

SS Existing Sewer Line

W Existing Water Line

OHE Existing Overhead Electricity

ST Storm Line

4

5

1. ALL SCREENING WALLS SHALL COMPLY WITH CITY OF MESQUITE GENERAL DESIGN STANDARDS FOR SCREENING WALLS.
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CAUTION EXISTING UTILITIES!

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MESQUITE TEXAS
Real. Texas. Flavor.

PUBLIC WORKS DEPARTMENT

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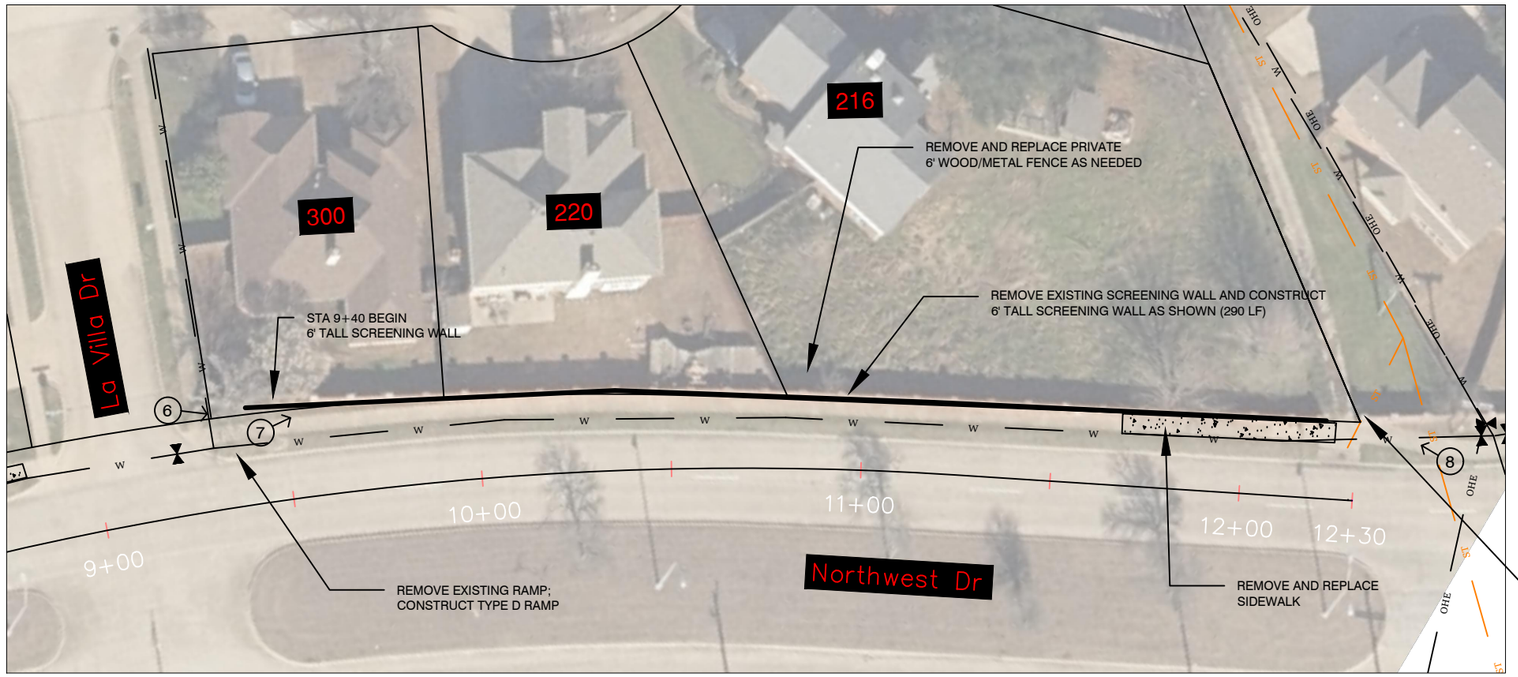
NORTHWEST DRIVE SCREENING WALL RECONSTRUCTION
CONTRACT# 2025-153

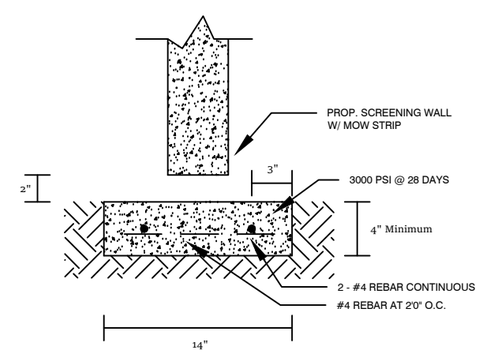
SCREENING WALL PLAN - 2

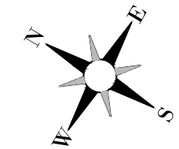
REVISIONS	
SCALE 1" = 40'	DRAWN BY: LC
DATE: 6/10/2025	SHEET: 4

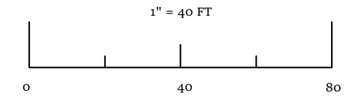
STATE OF TEXAS
LUIS F. CARDOZA
141809
LICENSED
PROFESSIONAL ENGINEER



MOWSTRIP DETAIL

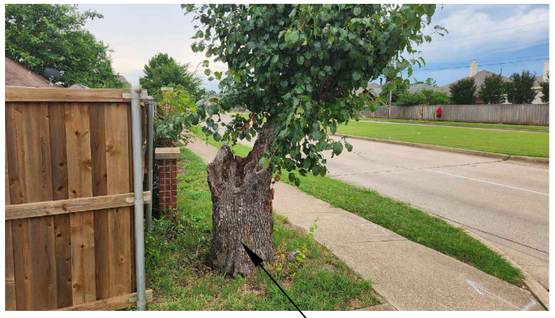






	Proposed Sidewalk
	Proposed Screen Wall
1	Photo & Direction
WM	Water Meter
MH	Sewer Manhole
	Reducer
	Fire Hydrant
	Existing Valve
SS	Existing Sewer Line
W	Existing Water Line
OHE	Existing Overhead Electricity
ST	Storm Line

6



7

8

1. ALL SCREENING WALLS SHALL COMPLY WITH CITY OF MESQUITE GENERAL DESIGN STANDARDS FOR SCREENING WALLS.
2. STATIONING IS ALONG NORTHWEST DRIVE.
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CAUTION EXISTING UTILITIES!
CONTRACTOR TO CALL FOR LOCATES 48 HRS. PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING UTILITIES DAMAGED DURING CONSTRUCTION

MESQUITE TEXAS
Real. Texas. Flavor.

PUBLIC WORKS DEPARTMENT

EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE THE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

NORTHWEST DRIVE SCREENING WALL RECONSTRUCTION
CONTRACT# 2025-153

SCREENING WALL PLAN - 3

REVISIONS

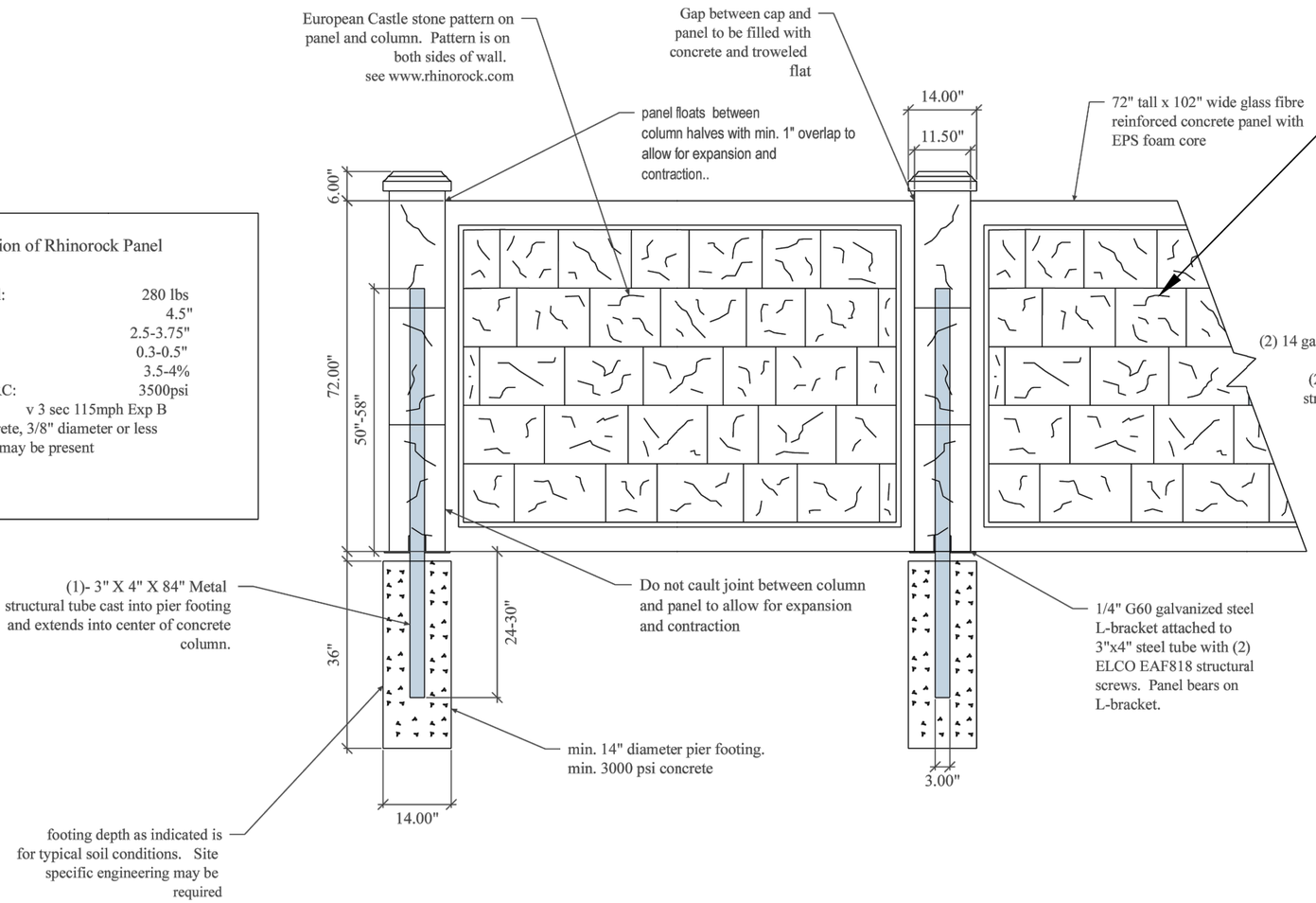
SCALE 1" = 40'
DRAWN BY: LC
DATE: 6/10/2025
SHEET: 5

STATE OF TEXAS
LUIS F. CARDOZA
141809
LICENSED
PROFESSIONAL ENGINEER

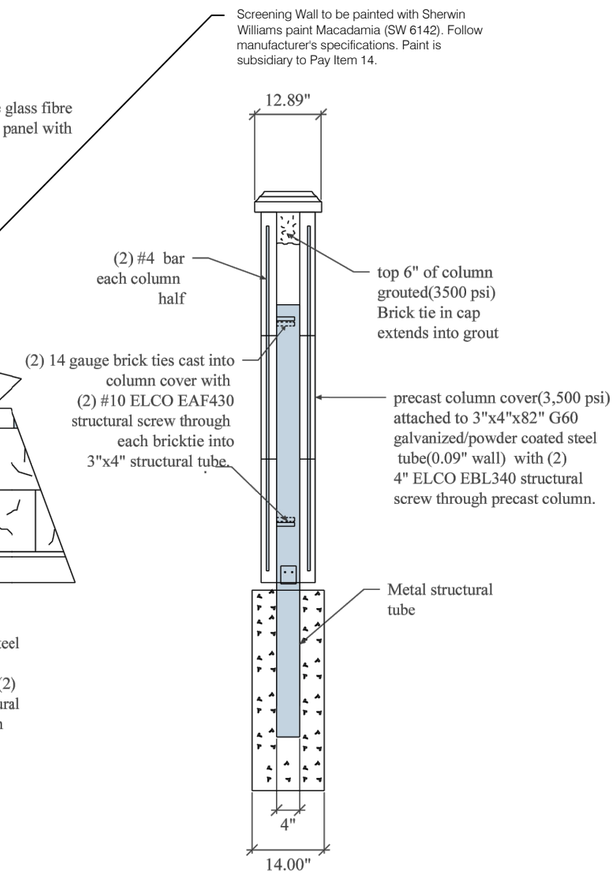
Technical Specification of Rhinorock Panel

-Weight of 72"x102" panel:	280 lbs
-Thickness of panel:	4.5"
-EPS foam core thickness:	2.5-3.75"
-GFRC Shell thickness:	0.3-0.5"
-% glass fibre:	3.5-4%
-compressive strength GFRC:	3500psi
-wind load design of panel:	v 3 sec 115mph Exp B

-due to nature of cast concrete, 3/8" diameter or less imperfections or bug holes may be present



A RHINOROCK WALL ELEVATION



B RHINOROCK COLUMN DETAIL

Rhinorock™
(801) 735-8877

MESQUITE TEXAS
Real. Texas. Flavor.

PUBLIC WORKS DEPARTMENT

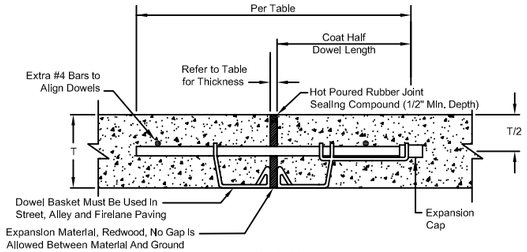
EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE THE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

NORTHWEST DRIVE SCREENING WALL RECONSTRUCTION
CONTRACT# 2025-153

RHINOROCK WALL DETAILS

REVISIONS	
SCALE 1" = 40'	DRAWN BY: LC
DATE: 6/10/2025	SHEET: 6

STATE OF TEXAS
LUIS F. CARDOZA
141809
LICENSED
PROFESSIONAL ENGINEER

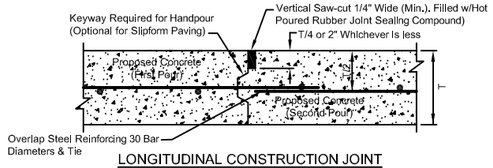


EXPANSION JOINT

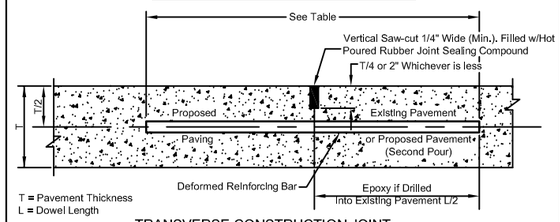
SMOOTH DOWEL BARS				
COMMERCIAL DRIVEWAY, STREET, ALLEY & FIRE LANE PAVING THICKNESS (IN.)	DIAMETER (IN.)	LENGTH (IN.)	SPACING (IN.)	EXPANSION JOINT THICKNESS (IN.)
< 6"	#4 (1/2")	24	12	1/2"
6" TO < 8"	#5 (5/8")	30	18	3/4"
8" TO < 10"	#6 (3/4")	30	18	3/4"
> 10"	#8 (1")	30	18	3/4"
SIDEWALK, RESIDENTIAL DRIVEWAY AND TRAIL THICKNESS (IN.)	DIAMETER (IN.)	LENGTH (IN.)	SPACING (IN.)	EXPANSION JOINT THICKNESS (IN.)
4" TO 6"	#4 (1/2")	24	12	1/2"

NOTES:
1. EXPANSION CAP FOR DOWELS SHALL HAVE AN INSIDE DIAMETER OF 1/16" GREATER THAN THAT OF THE DOWEL AND BE DESIGNED TO PROVIDE FREE MOVEMENT OF THE DOWEL BAR.
2. EXPANSION CAP TO FIT DOWEL MIN. 2" EMBEDMENT AND MIN. 1-1/4" CLEARANCE FROM THE CLOSED END OF THE SLEEVE TO THE DOWEL.
3. EXPANSION JOINTS SHALL BE INSTALLED AT A MAXIMUM DISTANCE OF 600 FEET, AND AT STREET INTERSECTIONS RADII, PC'S AND PT'S OR AS OTHERWISE DIRECTED. NO EXPANSION JOINT SHALL FALL IN A DRIVEWAY APPROACH OR INLET.
4. EXPANSION MATERIAL SHALL BE REDWOOD MATERIAL UNLESS OTHERWISE APPROVED.
5. DOWEL BARS TO BE PLACED PARALLEL TO PAVEMENT AT SPACING AND LENGTHS PER TABLE. CENTERED ON EXPANSION MATERIAL. ONE SIDE OF DOWEL BAR SHALL BE COATED IN THIN FILM OF GREASE OR OTHER APPROVED DE-BONDING MATERIAL. WHERE DRILLING OF DOWEL BARS IS REQUIRED, IT SHALL BE DONE BY AN APPROVED MECHANICAL RIG.
6. EXPANSION JOINTS SHALL NOT BE PLACED AT PAVEMENT GRADE BREAKS.

MESQUITE TEXAS Real. Texas. Service. Public Works | EXPANSION JOINTS | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/17/2022 | SHEET: P-1



LONGITUDINAL CONSTRUCTION JOINT

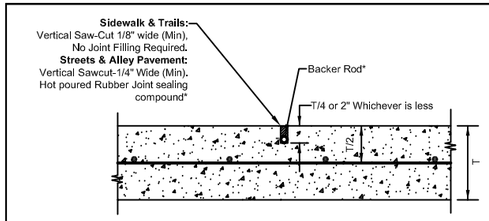


TRANSVERSE CONSTRUCTION JOINT

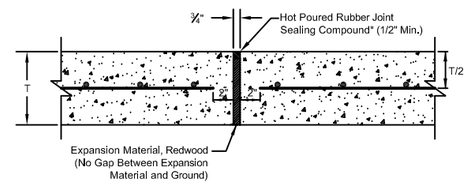
DEFORMED REINFORCING BARS			
COMMERCIAL DRIVEWAY, STREET, ALLEY & FIRE LANE PAVING THICKNESS (IN.)	DIAMETER (IN.)	LENGTH (IN.)	SPACING (IN.)
< 6"	#4 (1/2")	24	12
6" TO < 8"	#5 (5/8")	30	18
8" TO < 10"	#6 (3/4")	30	18
> 10"	#8 (1")	30	18
SIDEWALK, RESIDENTIAL DRIVEWAY AND TRAIL THICKNESS (IN.)	DIAMETER (IN.)	LENGTH (IN.)	SPACING (IN.)
4" TO 6"	#4 (1/2")	24	12

NOTES:
1. DOWEL BARS TO BE PLACED PARALLEL TO PAVEMENT AT SPACING AND LENGTHS PER TABLE. WHERE DRILLING OF DOWEL BARS IS REQUIRED, IT SHALL BE DONE BY AN APPROVED MECHANICAL RIG.
2. TRANSVERSE CONSTRUCTION JOINT CAN BE USED AS LONGITUDINAL CONSTRUCTION JOINT IN APPLICATIONS WHERE NEW PAVEMENT IS TO BE CONSTRUCTED OR RECONSTRUCTED NEXT TO OLD PAVEMENT.
3. IF DOWELING INTO EXISTING PAVEMENT THAT IS 6" OR LESS IN THICKNESS, USE TRANSVERSE CONSTRUCTION JOINT DETAIL.

MESQUITE TEXAS Real. Texas. Service. Public Works | CONSTRUCTION JOINTS | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/17/2022 | SHEET: P-2

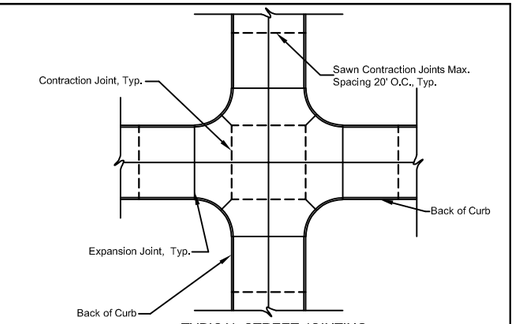


SAWED CONTRACTION JOINT



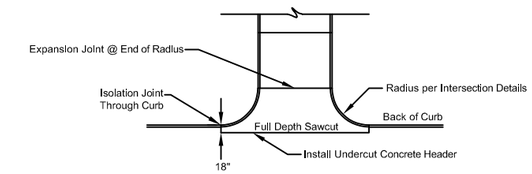
ISOLATION JOINT

MESQUITE TEXAS Real. Texas. Service. Public Works | SAWED CONTRACTION & ISOLATION JOINT | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/20/2019 | SHEET: P-3



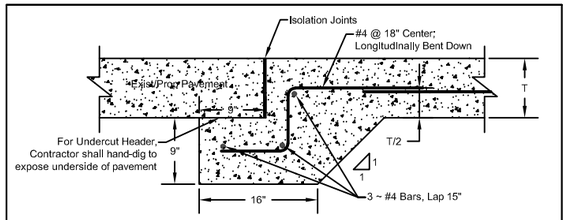
TYPICAL STREET JOINTING

NOTE:
1. ALL CONCRETE PLACEMENT SHALL END IN A JOINT, AN EXPANSION JOINT OR A CONCRETE HEADER
2. SAWED CONTRACTION JOINTS ARE REQUIRED AT CENTER LINE AND LANE LINE IN ANY STREET PAVEMENT WIDTH GREATER THAN 22.5 FEET (BACK TO BACK OF CURB).
3. EXPANSION JOINTS SHALL BE AT A MAXIMUM DISTANCE OF 600 FEET AND STREET INTERSECTION, PC'S AND PT'S OR AS OTHERWISE DIRECTED. NO EXPANSION JOINT SHALL FALL IN AN APPROACH OR INLET.



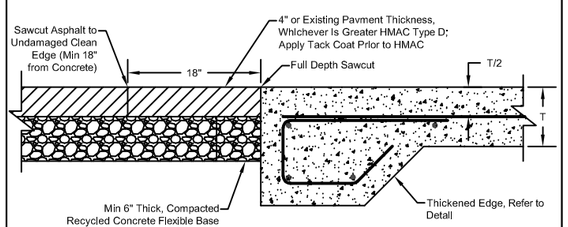
EXISTING CONCRETE STREET TO NEW CONCRETE STREET TEE INTERSECTION

MESQUITE TEXAS Real. Texas. Service. Public Works | STREET JOINTING | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/20/2019 | SHEET: P-4



CONCRETE HEADER

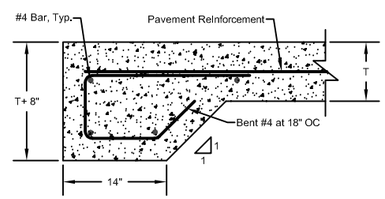
T = Pavement Thickness, Not Less than Street Pavement Depth or 8", whichever is greater



CONCRETE TO ASPHALT HEADER

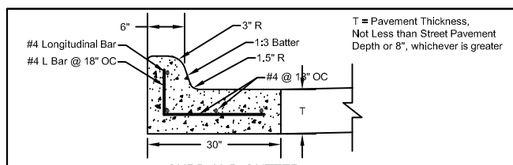
NOTES:
1. CONCRETE HEADERS SHALL BE CONTINUOUS ALONG EXISTING OR PHASED PAVEMENT WHEN ADJACENT TO THE NEW PAVEMENT. ADDITIONAL LOCATIONS CAN BE SHOWN ON THE PLANS OR AT THE DISCRETION OF THE CITY ENGINEER.

MESQUITE TEXAS Real. Texas. Service. Public Works | TYPICAL HEADERS | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/20/2019 | SHEET: P-5

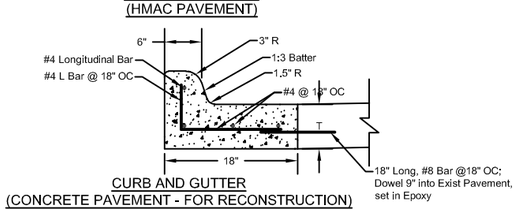


T = PAVEMENT THICKNESS, NOT LESS THAN STREET PAVEMENT DEPTH OR 8", WHICHEVER IS GREATER.

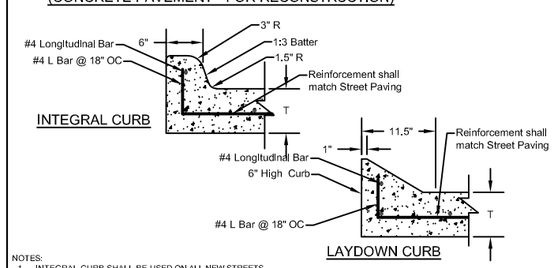
MESQUITE TEXAS Real. Texas. Service. Public Works | THICKENED CONCRETE EDGE | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/20/2019 | SHEET: P-6



CURB AND GUTTER (HMAC PAVEMENT)



CURB AND GUTTER (CONCRETE PAVEMENT - FOR RECONSTRUCTION)

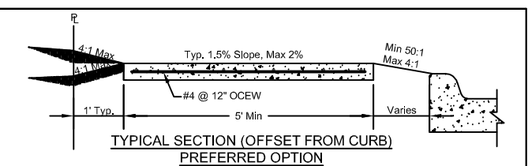


INTEGRAL CURB

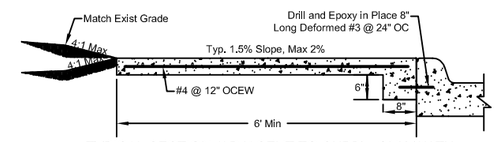
LAYDOWN CURB

NOTES:
1. INTEGRAL CURB SHALL BE USED ON ALL NEW STREETS.
2. ANY HONEYCOMB PRESENT ON BACKSIDE OF CURB SHALL BE FILLED IN.

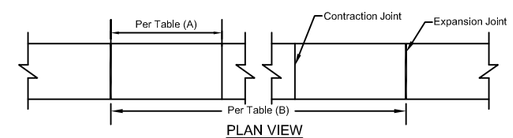
MESQUITE TEXAS Real. Texas. Service. Public Works | TYPICAL CURB & GUTTER | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 07/22/2019 | SHEET: P-7



TYPICAL SECTION (OFFSET FROM CURB) PREFERRED OPTION



TYPICAL SECTION (ADJACENT TO CURB) - ONLY WITH PERMISSION OF CITY ENGINEER



PLAN VIEW

Type	Width	Thickness	Contraction Joint (A)	Expansion Joint (B)
Sidewalk	Min. 5' < 8	4"	10' Spacing Tooled Joint	120' Max.
Trail - Hike & Bike	≥ 8'	6"	15' Spacing Sawcut	300' Max

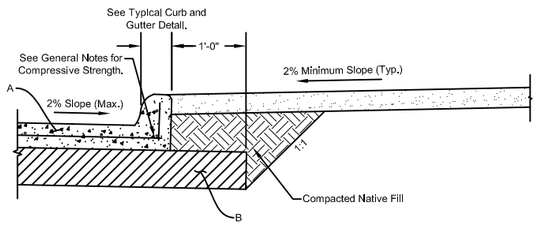
NOTES:
1. EXPANSION JOINTS SHALL BE PLACED AT MAXIMUM INTERVALS PER TABLE AND SHALL ALSO BE PLACED AT EACH LOT LINE.
2. EXPANSION JOINTS REQUIRED BETWEEN AND ABUTTING CONCRETE PAVEMENT. NO EXPANSION JOINT IS REQUIRED BETWEEN SIDEWALK AND ADJACENT STREET CURB. FOR EXPANSION JOINTS ON DRIVEWAYS, REFER TO P-26 THROUGH P-29.
3. ALL SIDEWALKS SHALL HAVE POSITIVE DRAINAGE.

MESQUITE TEXAS Real. Texas. Service. Public Works | PEDESTRIAN FACILITIES | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/17/2022 | SHEET: P-8

PAVING - 1

CITY OF MESQUITE, TEXAS
PUBLIC WORKS DEPARTMENT
STANDARD DETAILS

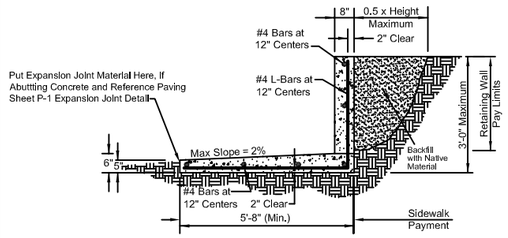
MESQUITE TEXAS Real. Texas. Service.



Classification	Minimum Pavement Thickness (A)	Minimum Subgrade Thickness (B)	Minimum Bar: Maximum Spacing Reinforcing Steel
Local	6"	6" Lime Stabilized at 8% (Or 6" Crushed Concrete)	#4 @ 18" C.C.
Collector	8"	8" Lime Stabilized at 8% (Or 8" Crushed Concrete)	#4 @ 18" C.C.
Fire Lane	Per Fire Lane Detail		
Alleys	Per Typical Alley Detail		
Arterials	Per Engineering Design Manual Section 2.11		#4 @ 18" C.C.

NOTE:
CRUSHED CONCRETE SHALL MEET TXDOT SPECIFICATIONS, ITEM 247, TYPE D, GRADE 1 OR 2 WITH TRIAX TX 140 GEOGRID (OR APPROVED EQUAL.

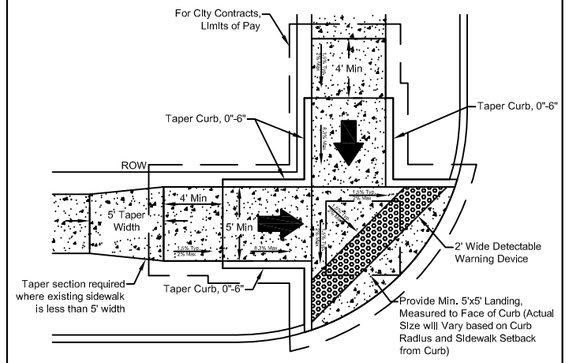
MESQUITE TEXAS Real. Texas. Service. | Public Works | CONCRETE PAVEMENT DETAIL TYPICAL SECTION | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/20/2019 | SHEET: P-14



SECTIONAL ELEVATION

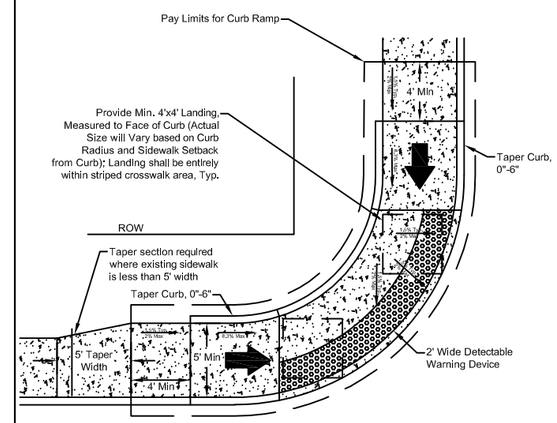
NOTES:
1. EXPOSED FACE OR WALL SHALL HAVE FORM LINER SIKA GREENSTREAK #439, SIERRA DRYSTACK OR SYMONS #F3170575, #3170503 STANDARD DRY STACK OR AS DIRECTED BY THE CITY ENGINEER. FORM LINER IS REQUIRED FOR WALL 6" (SIX INCHES) IN HEIGHT AND OVER.
2. MINIMUM COMPRESSIVE DESIG STRENGTH OF THE CONCRETE SHALL BE 4,000 PSI AT 28 DAYS, 6 SACK MINIMUM CEMENT CONTENT.
3. MINIMUM GRADE OF REINFORCING STEEL IS TO BE ASTM A-615,GRADE 60.
4. ALL DISTANCES TO REINFORCING STEEL REFER TO CLEAR CONCRETE COVER OVER REINFORCING STEEL UNLESS NOTED OTHERWISE.
5. MAXIMUM REINFORCING STEEL LAP IS TO BE THIRTY (30) BAR DIAMETERS.
6. MAXIMUM SPACING OF EXPANSION JOINTS SHALL BE 120- FEET. AN EXPANSION JOINT SHALL BE PLACED AT EACH PROPERTY LINE. EXPANSION JOINTS SHALL BE CONTINUOUS THROUGH WALL AND ASSOCIATED SIDEWALK.
7. ALL EXPOSED EDGES SHALL HAVE A ¾" INCH CHAMFER.
8. SIDEWALK WIDTH SHOWN IS MINIMUM WIDTH. CONSULT PAVING PLANS FOR THE CLEAR SIDEWALK WIDTH.

MESQUITE TEXAS Real. Texas. Service. | Public Works | CONCRETE SIDEWALK WITH RETAINING WALL | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/20/2019 | SHEET: P-15



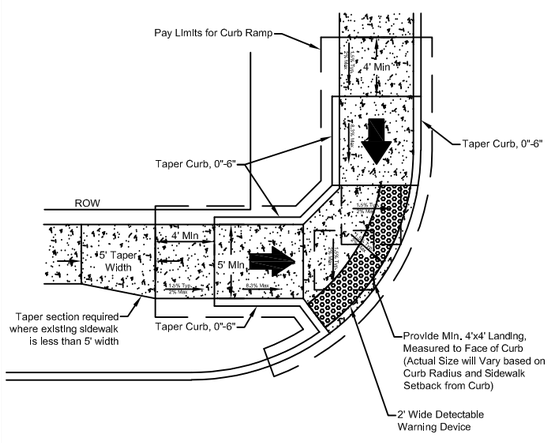
NOTES:
1. ALL PEDESTRIAN ELEMENTS, INCLUDING CURB RAMPS, SHALL COMPLY WITH THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG), PUBLISHED BY THE ARCHITECTURAL AND TRANSPORTATION COMPLIANCE BAORD ON JULY 16, 2011, 36 CFR PART 1190 OR ITS FINAL ADOPTED GUIDELINES.
2. ALL PEDESTRIAN PATHS SHALL HAVE TYPICAL 1.5% (PERCENT), MAXIMUM 2% (PERCENT) CROSS SLOPE.
3. DETAILS ARE REPRESENTATION OF INFORMATION FROM PROWAG AND ARE INTENDED TO PROVIDE GUIDANCE. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL AND THE CONTRACTOR TO ENSURE THAT ALL RAMPS CONSTRUCTED MEET THE REQUIREMENTS OF PROWAG.

MESQUITE TEXAS Real. Texas. Service. | Public Works | CURB RAMP TYPE A | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 09/08/2020 | SHEET: P-16



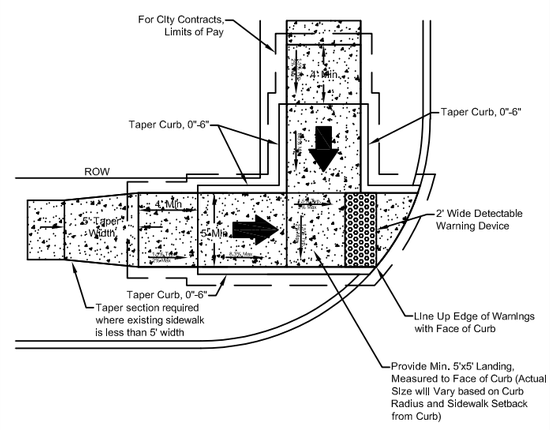
NOTES:
1. ALL PEDESTRIAN ELEMENTS, INCLUDING CURB RAMPS, SHALL COMPLY WITH THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG), PUBLISHED BY THE ARCHITECTURAL AND TRANSPORTATION COMPLIANCE BAORD ON JULY 16, 2011, 36 CFR PART 1190 OR ITS FINAL ADOPTED GUIDELINES.
2. ALL PEDESTRIAN PATHS SHALL HAVE TYPICAL 1.5% (PERCENT), MAXIMUM 2% (PERCENT) CROSS SLOPE.
3. DETAILS ARE REPRESENTATION OF INFORMATION FROM PROWAG AND ARE INTENDED TO PROVIDE GUIDANCE. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL AND THE CONTRACTOR TO ENSURE THAT ALL RAMPS CONSTRUCTED MEET THE REQUIREMENTS OF PROWAG.

MESQUITE TEXAS Real. Texas. Service. | Public Works | CURB RAMP TYPE B | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 09/08/2020 | SHEET: P-17



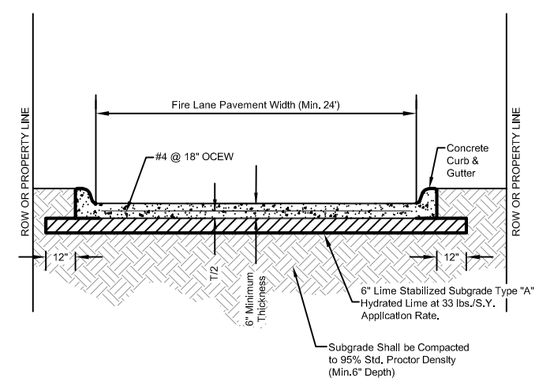
NOTES:
1. ALL PEDESTRIAN ELEMENTS, INCLUDING CURB RAMPS, SHALL COMPLY WITH THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG), PUBLISHED BY THE ARCHITECTURAL AND TRANSPORTATION COMPLIANCE BAORD ON JULY 16, 2011, 36 CFR PART 1190 OR ITS FINAL ADOPTED GUIDELINES.
2. ALL PEDESTRIAN PATHS SHALL HAVE TYPICAL 1.5% (PERCENT), MAXIMUM 2% (PERCENT) CROSS SLOPE.
3. DETAILS ARE REPRESENTATION OF INFORMATION FROM PROWAG AND ARE INTENDED TO PROVIDE GUIDANCE. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL AND THE CONTRACTOR TO ENSURE THAT ALL RAMPS CONSTRUCTED MEET THE REQUIREMENTS OF PROWAG.

MESQUITE TEXAS Real. Texas. Service. | Public Works | CURB RAMP TYPE C | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 09/08/2020 | SHEET: P-18



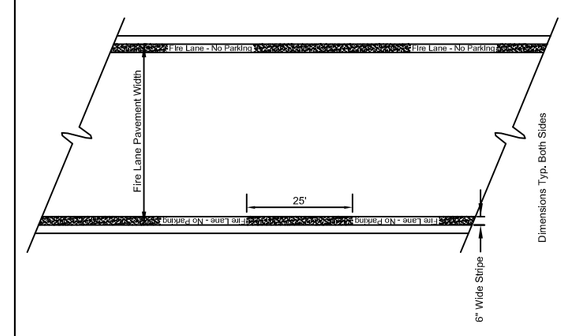
NOTES:
1. ALL PEDESTRIAN ELEMENTS, INCLUDING CURB RAMPS, SHALL COMPLY WITH THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG), PUBLISHED BY THE ARCHITECTURAL AND TRANSPORTATION COMPLIANCE BAORD ON JULY 16, 2011, 36 CFR PART 1190 OR ITS FINAL ADOPTED GUIDELINES.
2. ALL PEDESTRIAN PATHS SHALL HAVE TYPICAL 1.5% (PERCENT), MAXIMUM 2% (PERCENT) CROSS SLOPE.
3. DETAILS ARE REPRESENTATION OF INFORMATION FROM PROWAG AND ARE INTENDED TO PROVIDE GUIDANCE. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL AND THE CONTRACTOR TO ENSURE THAT ALL RAMPS CONSTRUCTED MEET THE REQUIREMENTS OF PROWAG.

MESQUITE TEXAS Real. Texas. Service. | Public Works | CURB RAMP TYPE D | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 09/08/2020 | SHEET: P-19



NOTES:
1. REFER TO DETAIL FOR EXPANSION JOINT AND CONTRACTION JOINT, FOR SPACING, ETC. OF JOINTS.
2. WHERE A CURB IS USED, THE REQUIRED CLEARANCE SHALL BE MEASURED FROM THE CURB FACE TO ANY PERMANENT TRAFFIC OBSTACLE.
3. CONCRETE SHALL BE 4,000 PSI AT 28 DAYS, 6 (SIX) SACK MIX MINIMUM. REFER TO PAVING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
4. 6" (SIX INCH) LIME STABILIZED SUBGRADE MAY BE SUBSTITUTED BY EITHER ADDITIONAL 2" (TWO INCHES) OF CONCRETE PAVING OR 6" (SIX INCHES) RECYCLED CONCRETE FLEXIBLE BASE (PER TXDOT ITEM NO. 247, TYPE 1, GRADE D).
5. ALL DIMINSIONS ARE FACE TO FACE OF CURB. WHERE A FIRE LANE DEAD ENDS AND EXCEEDS 150' (FEET) LENGTH, A HAMMERHEAD OR CUL-DE-SAC PER DETAIL P14-B MUST BE PROVIDED FOR THE FIRE TRUCK TO TURN AROUND.
6. FOR FIRE LINE PAVEMENT WIDTH, REFER TO 2015 INTERNATIONAL FIRE CODE APPENDIX D 103 AND CITY ORDINANCES 4486 AND 4499 FOR AMENDMENTS.

MESQUITE TEXAS Real. Texas. Service. | Public Works | FIRE LANE PAVING | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/20/2019 | SHEET: P-20



NOTES:
1. LETTERING SHALL BE **"FIRE LANE - NO PARKING"** OR **"NO PARKING - FIRE LANE"** WITH 4' (FOUR INCH) WHITE LETTERS.
2. WHERE CURB IS AVAILABLE, THE STRIPINGS SHALL BE ON THE VERTICAL FACE OF CURB.

MESQUITE TEXAS Real. Texas. Service. | Public Works | FIRE LANE STRIPING | GENERAL DESIGN STANDARDS STANDARD DETAILS | SCALE: N.T.S | REVISION DATE: 05/20/2019 | SHEET: P-21

PAVING - 3

MESQUITE TEXAS Real. Texas. Service.
CITY OF MESQUITE, TEXAS
PUBLIC WORKS DEPARTMENT
STANDARD DETAILS