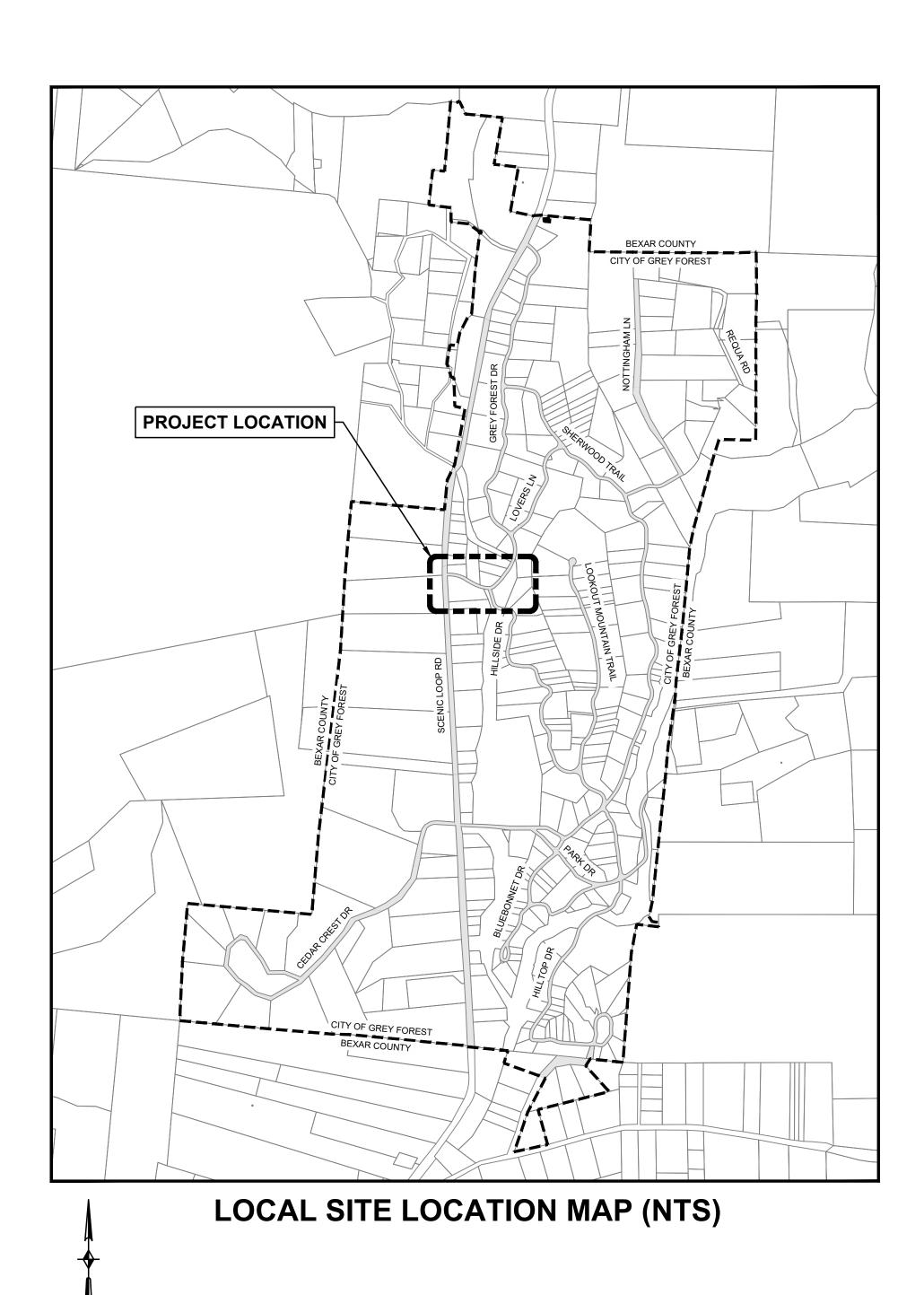
DETAILED DESIGN PLANS CITY OF GREY FOREST ROADWAY REPAIRS ON GREY FOREST DR. & HILLSIDE DR.

PROJECT NO. GFORST-002B



NORTH

MAYOR

MITCH THORNTON

COUNCIL PERSONS

KIMBERLY VERITY
JEN NOTTINGHAM
GERI POSS
SUSAN DARST
SEAN SKAGGS

POLICE CHIEF

RENE RODRIGUEZ

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	06	OF	06	DETAILS	06/16/2020

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SHEET **01 OF 06**

)02B - ROADWAY REPAIRS ON GREY FOREST DR & HILLSIDE DR - DETAILED DESIGN 06/16/

GENERAL NOTES

A. MISCELLANEOUS

- PERFORM ALL WORK REQUIRED BY THE PLANS AND CONTRACT IN CONFORMANCE WITH THE ACCOMPANYING SPECIFICATIONS. THE ENGINEER SHALL MAKE ALL FINAL DECISIONS AND JUDGMENTS ON APPARENT CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS AND ON MATTERS NOT SPECIFICALLY COVERED BY THE PLANS AND SPECIFICATIONS.
- FOR SITE VISIT REQUESTS. NOTIFY ENGINEER 24 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION. SUBGRADE PREPARATION, BASE PLACEMENT, CONCRETE PLACEMENT, AND ALL TESTING.
- "TXDOT" INDICATES THE TEXAS DEPARTMENT OF TRANSPORTATION 2014 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES.
- 4. COMPLY WITH APPLICABLE REGULATIONS INCLUDING. BUT NOT LIMITED TO. BUILDING CODES. SAFETY CODES. AND INSPECTION REQUIREMENTS
- 5. SECURE REQUIRED PERMITS.
- 6. PROVIDE ON-SITE RESTROOM FACILITIES FOR CONTRACTOR'S EMPLOYEES PRIOR TO COMMENCING
- REMOVE AND DISPOSE OF ALL EXCESS MATERIALS.
- 8. NO BLASTING WILL BE PERMITTED FOR THIS PROJECT.
- 9. THERE WILL BE NO SEPARATE PAY FOR ROCK EXCAVATION.
- 10. REPAIR OR REPLACE ALL ITEMS DAMAGED BY CONTRACTOR, INCLUDING ITEMS NOT SHOWN ON PLANS. REPAIR TO SATISFACTION OF ENGINEER AND OWNER OF DAMAGED ITEM.
- 11. REPAIR OR REPLACE ALL PORTIONS OF IRRIGATION SYSTEMS DAMAGED BY CONSTRUCTION.
- 12. DIGITAL VIDEOS AND/OR PHOTOS DOCUMENTING THE EXISTING CONDITIONS OF THE PROJECT AREA SHALL BE SUBMITTED TO THE CITY AT THE PRE-CONSTRUCTION CONFERENCE.
- 13. PROVIDE 1 COPY OF SUBMITTAL DATA AND OBTAIN ENGINEER'S APPROVAL BEFORE BEGINNING WORK, WHERE REQUIRED.
- 14. PROVIDE TESTING BY APPROVED INDEPENDENT TESTING LABORATORY (NO SEPARATE PAY ITEM). TEST ASPHALT PAVED AREAS FOR COMPACTION OF FLEXIBLE BASE AND TYPE "D" ASPHALT. TEST CONCRETE FOR PAVED ROADWAY AND CURBS. TEST FILL TO EVALUATE COMPACTION OF SOIL MEETS PROJECT REQUIREMENTS.
- 15. DUE TO THE RESIDENTIAL ENVIRONMENT OF THE PROJECT AREA, WORK HOURS AT THE SITE ARE LIMITED. THE CONTRACTOR WILL COMPLY WITH ALL APPLICABLE CITY OF GREY FOREST ORDINANCES INCLUDING LIMITING WORK HOURS FROM 7:00 A.M. TO 6:00 P.M. ON WEEKDAYS AND 9:00 A.M. TO 5:00 P.M. ON SATURDAY. EXCEPTIONS SHALL OCCUR ONLY BY SPECIAL REQUEST AND WITH PERMISSION BY THE OWNER. ALL WORK IN PROGRESS MUST BE SUITABLY COVERED AND BARRICADED TO TRAFFIC WITH ACCESS PROVIDED TO ALL RESIDENCES IN THE PROJECT AREA DURING THAT TIME.
- 16. STAGING OF EQUIPMENT, AND OFFICE LOCATIONS WILL NOT BE ALLOWED WITHIN THE CITY OF GREY FOREST CITY LIMITS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CITY MANAGER.
- 17. STOCKPILING OF MATERIALS MORE THAN 24 HOURS IS PROHIBITED WITHIN THE CITY OF GREY FOREST CITY LIMITS.
- 18. TO THE FULLEST EXTENT PERMITTED BY LAW, HOLD OWNER AND ENGINEER HARMLESS FROM ALL DAMAGES, LOSSES OR EXPENSES, INCLUDING ATTORNEYS' FEES, FROM ANY CLAIMS OR DAMAGES FOR BODILY INJURY, SICKNESS, DISEASE OR DEATH OR FROM CLAIMS FOR DAMAGE TO TANGIBLE PROPERTY, OTHER THAN THE WORK ITSELF. THIS INDEMNIFICATION SHALL EXTEND TO THOSE CLAIMS RESULTING FROM PERFORMANCE OF THIS CONTRACT AND SHALL APPLY ONLY TO THE EXTENT SUCH CLAIM OR LOSS IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF CONTRACTOR OR ANY OF ITS AGENTS, EMPLOYEES OR SUBCONTRACTORS. THIS INDEMNITY SHALL BE EFFECTIVE REGARDLESS OF WHETHER THE CLAIM OR LOSS IS CAUSED IN SOME PART BY A PARTY TO BE INDEMNIFIED HEREUNDER; SAVE AND EXCEPT ONLY THAT CONTRACTOR SHALL NOT INDEMNIFY OR HOLD ENGINEER HARMLESS FOR DAMAGES CAUSED BY: (A) DEFECTS IN PLANS OR SPECIFICATIONS PREPARED BY ENGINEER FOR THIS PROJECT; OR (B) NEGLIGENCE OF ENGINEER IN THE RENDITION OF PROFESSIONAL DUTIES FOR THIS CONSTRUCTION CONTRACT.

B. TRAFFIC MAINTENANCE AND PROTECTION

- MAINTAIN TRAFFIC, PROTECT TRAFFIC AND PROVIDE ACCESS FOR LOCAL TRAFFIC THROUGHOUT THE DURATION OF THE PROJECT. ALL PROJECT BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. LOCATE ALL PROJECT BARRICADES AND WARNING SIGNS SO AS TO PROVIDE MAXIMUM PROTECTION TO THE PUBLIC, CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS FLOW OF TRAFFIC THROUGHOUT THE DURATION OF THE PROJECT. COORDINATE SIGNS AND BARRICADES WITH THE SEQUENCE OF CONSTRUCTION AND DETOUR PLAN.
- MINIMIZE DRIVEWAY BLOCKAGE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SAFE DRIVEWAY ACCESS FOR HOMEOWNERS. NOTIFY HOMEOWNERS 24 HOURS IN ADVANCE OF BLOCKING DRIVEWAYS. DO NOT BLOCK DRIVEWAYS ON WEEKENDS. PROVIDE ACCESS FOR MAIL DELIVERY.
- 3. REMOVE AND RELOCATE TRAFFIC SIGNS AS NEEDED (NO SEPARATE PAY ITEM
- C. ELEVATIONS AND DIMENSIONS
- 1. PROVIDE SURVEY AND GRADE STAKING.
- 2. VERIFY PROJECT ELEVATIONS AND DIMENSIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- 3. ALL DIMENSIONAL TIES TO CURB LINES ARE TO THE FACE OF CURB.
- 4. "MATCH" REQUIRES VERTICAL AND HORIZONTAL ALIGNMENT UNLESS APPROVED OTHERWISE BY
- 5. OBTAIN THE EXTENTS FOR CURB REPAIR & PAVEMENT REPAIR FROM ENGINEER PRIOR TO CURB OR PAVEMENT REMOVAL
- D. EARTHWORK, EXCAVATION, AND TOPSOIL
- OBTAIN APPROVAL FOR ALL SUBMITTALS FROM ENGINEER BEFORE COMMENCING PLACEMENT
- 2. FILL BEHIND EXPOSED CURBS AND WALLS TO TOP OF CURB OR WALL AT A SLOPE NOT TO EXCEED 3 TO 1 AND WITH A MINIMUM OF 4 INCHES OF TOPSOIL. ADD SOD TO MATCH EXISTING CONDITIONS.
- 3. COMPACT OUTSIDE THE ROAD AREA TO A DENSITY OF NOT LESS THAN 90% OF MAXIMUM DENSITY AS DETERMINED PER ASTM D-698.
- 4. PERFORM EXCAVATION WORK IN A SAFE MANNER. COMPLY WITH SUBPART "P" OF OSHA SAFETY AND
- HEALTH REGULATIONS. 5. ALL EXCAVATION IS UNCLASSIFIED WITH NO SEPARATE PAYMENT FOR VARYING MATERIALS.
- E. ACCESS

1. TEMPORARY CONSTRUCTION EASEMENTS ARE NOT PROVIDED IN THIS PROJECT. ACCESS IS LIMITED TO THE CITY OF GREY FOREST RIGHT-OF-WAY AND EXISTING CITY AND UTILITY EASEMENTS.

F. SUBGRADE PREPARATION

- 1. STEPS FOR PAVEMENT SUBGRADE PREPARATION.
- a. STRIP UNSUITABLE SOILS CONSISTING OF TOPSOIL, ORGANIC SOILS, PEAT, AND VEGETATION FROM THE PLANNED FOUNDATION AREAS
- b. CONTRACTOR SHALL RETAIN A GEOTECHNICAL REPRESENTATIVE TO OBSERVE THE EXCAVATED
- SUBGRADE TO EVALUATE IF ADDITIONAL SUBGRADE IMPROVEMENTS ARE NECESSARY. c. SLOPE SUBGRADE SOILS SO THAT RUNOFF IS CHANNELED AWAY FROM THE PAVEMENT AREAS.
- WATER SHOULD NOT BE ALLOWED TO ACCUMULATE IN SUBGRADE SOILS. d. PROOFROLL THE SUBGRADE AS DESCRIBED IN SECTION H.
- e. PLACE FILL AND COMPACT IN ACCORDANCE WITH SECTION I. PROOFROLL THE FILL AS DESCRIBED IN SECTION H.

G. EXCAVATION DEWATERING

1. CONTRACTOR SHALL REMOVE ANY ACCUMULATION OF GROUNDWATER WITHIN THE EXCAVATION USING SUMPS AND PUMPS. DEWATERING OF EXCAVATIONS IS CONSIDERED MEANS AND METHODS AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

H. SUBGRADE PROOFROLL

1. AFTER PREPARING THE SUBGRADE AS DESCRIBED ABOVE AND PRIOR TO THE PLACEMENT OF SELECT FILL, WE RECOMMEND PROOFROLLING THE SUBGRADE SOILS IN ACCORDANCE WITH TXDOT ITEM 216. A GEOTECHNICAL REPRESENTATIVE SHALL OBSERVE THE PROOFROLL. AREAS THAT FAIL THE

- PROOFROLL LIKELY INDICATE SOFT OR WEAK AREAS THAT WILL REQUIRE ADDITIONAL SOIL CORRECTION WORK TO SUPPORT THE PAVEMENTS. THE CONTRACTOR SHOULD CORRECT AREAS THAT DISPLAY YIELDING OR RUTTING. POSSIBLE OPTIONS FOR SUBGRADE CORRECTION INCLUDE MOISTURE CONDITIONING AND RE-COMPACTION, EXCAVATION (UNDERCUTTING) AND REPLACEMENT WITH RE-COMPACTED SOIL OR CRUSHED AGGREGATE, CHEMICAL STABILIZATION AND/OR GEOTEXTILES.
- 2. CONTRACTOR SHALL PERFORM A SECOND PROOFROLL AFTER THE SELECT FILL MATERIAL OR AGGREGATE BASE MATERIAL IS IN PLACE, AND PRIOR TO CONSTRUCTING THE PAVEMENTS.

I. FILL MATERIALS AND COMPACTION

1. SEE TABLE 1 BELOW FOR FILL MATERIAL SPECIFICATIONS.

TABLE 1. FILL MATERIALS

	LOCATIONS TO BE USED	FILL CLASSIFICATION	POSSIBLE SOIL TYPE	GRADITION	ADDITIONAL REQUIREMENTS
	GENERAL FILL TO RAISE SITE GRADES	SELECT FILL	SC, CL	1. 100% PASSING 3-INCH SIEVE 2. 60% MAXIMUM PASSING NO. 200 SIEVE	1. LIQUID LIMIT <35 2. PLASTICITY INDEX BETWEEN 7 AND 18 < 2% ORGANIC CONTENT (OC)
	PAVEMENT SUBGRADE	CRUSHED AGGREGATE BASE		GRADES 1, 2 OR 5 AS SPECIFIED BY TXDOT ITEM 247	TYPE A AS SPECIFIED BY TxDOT ITEM 247
-	BELOW LANDSCAPED SURFACES, WHERE SUBSIDENCE IS NOT A CONCERN	NON-SELECT FILL		100% PASSING 6-INCH SIEVE	< 10% OC

- 2. SPREAD FILL IN LOOSE LIFTS OF APPROXIMATELY 8 INCHES THICK. COMPACT FILL IN ACCORDANCE WITH THE CRITERIA PRESENTED BELOW IN TABLE 2.
- 3. SEE TABLE 2 FOR COMPACTION REQUIREMENTS.

TABLE 2. COMPACTION SPECIFICATIONS

REFERENCE	COMPACTION PERCENT (ASTM D698 - STANDARD PROCTOR)	MOISTURE CONTENT VARIANCE FROM OPTIMUM, PERCENTAGE POINTS	
LIMESTONE BEDROCK	PROOFROLL TO CONFIRM CLAYS HAVE BEEN REMOVED		
NATIVE SOILS BELOW PAVEMENT AND OVERSIZING ZONES	95	0 TO +4	
SELECT FILL SOILS BELOW PAVEMENT AND OVERSIZING ZONES	98	-1 TO +3	
BELOW LANDSCAPED SURFACES	90	±4	

4. CONTRACTOR SHALL PERFORM DENSITY TESTS IN THE FILL TO EVALUATE COMPACTION OF SOIL MEETS THE PROJECT REQUIREMENTS.

J. ASPHALT PAVEMENT

TABLE 3. SECTIONS FOR ASPHALT OPTIONS

DAVEMENT LAVED	DESIGN THICKNESS, INCHES		
PAVEMENT LAYER	FLEXIBLE BASE COURSE	HMA BASE COURSE	
HMA SURFACE COURSE - TYPE "D"	2.5	3	
HMA BASE COURSE - TYPE "B"		5	
FLEXIBLE BASE. TxDOT ITEM 247, TYPE "A", GRADE 1, 2, OR 5	10	-	

- 1. FLEXIBLE BASE MATERIAL USED FOR THE ROADWAY SHALL COMPLY WITH TXDOT TYPE A GRADE 1, 2 OR 5. THE FLEXIBLE BASE SHOULD BE COMPACTED IN MAXIMUM 8-INCH LOOSE LIFTS TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS EVALUATED BY TEX-113-E WITHIN PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
- 2. THE HOT-MIX ASPHALT SHOULD COMPLY WITH TXDOT ITEM 340, "DENSE-GRADED HOT-MIX ASPHALT". TYPE B SHALL BE USED FOR THE BASE COURSE LAYERS AND TYPE D BE USED FOR THE SURFACE COURSE. THE COMPACTED HMA SHOULD CONTAIN BETWEEN 5% AND 9% AIR VOIDS AS DETERMINED USING THEORETICAL LABORATORY DENSITY METHOD (TEX-207-F). TESTING SHOULD BE PROVIDED ON THE DAILY BASIS TO VERIFY THE OIL CONTENT, GRADATION, AND STABILITY COMPLY WITH THE JOB MIX FORMULA APPROVED FOR USE ON THE PROJECT.
- ASPHALT FOR THE TACK COAT SHALL CONFORM TO TXDOT ITEM 300 AND APPLIED AT A RATE OF 0.1 GAL./S.Y. A TACK COAT SHALL BE APPLIED TO ALL EXISTING EDGES INCLUDING CURBS AND TRANSITIONS IMMEDIATELY PRIOR TO LAYING THE ASPHALT SURFACE TO MINIMIZE CONTAMINATING THE BOND POTENTIAL BETWEEN THE NEW ASPHALT SURFACE AND THE EXISTING EDGE.
- 4. SAW CUT ALL EDGES OF EXCAVATION AND PATCHES IN EXISTING PAVEMENT.

K. CONCRETE PAVEMENT

1. SEE TABLE 4 FOR CONCRETE PAVEMENT SECTION DIMENSIONS

TABLE 4. CONCRETE PAVEMENT SECTION

PAVEMENT LAYER	DESIGN THICKNESS, INCHES
PORTLAND CEMENT CONCRETE	5
FLEXIBLE BASE, TxDOT ITEM 247, TYPE "A", GRADE 1, 2, OR 5	4

- 2. CRUSHED AGGREGATE BASE MUST FORM TO TXDOT ITEM 247. THE AGGREGATE BASE LAYER IS INTENDED AS A LEVELING SURFACE TO PLACEMENT OF THE REINFORCEMENT.
- 3. PLACE AGGREGATE BASE BELOW THE PAVEMENT TO PROVIDE A SUITABLE SUBGRADE FOR CONCRETE PLACEMENT, REDUCE FAULTING AND HELP DISSIPATE LOADS. APPROPRIATE MIX DESIGNS, PANEL SIZING, JOINTING, DOWELING AND EDGE REINFORCEMENT ARE CRITICAL TO PERFORMANCE OF RIGID
- 4. THE CONCRETE SHOULD HAVE 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. CONCRETE SHOULD BE CAST AND PLACED WITHIN THE GUIDELINES SET FORTH BY THE AMERICAN CONCRETE INSTITUTE (ACI).
- 5. REINFORCE THE CONCRETE PAVEMENT USING NO. 4 REINFORCING BARS, PLACED AT 18-INCH CENTERS, EACH WAY. ARRANGE SPACE AND SECURELY TIE BARS AND BAR SUPPORTS (CHAIRS) TO HOLD REINFORCEMENT IN POSITION DURING CONCRETE PLACEMENT OPERATIONS.
- 6. CHAIRS SHOULD BE CONSTRUCTED OF PLASTIC MATERIAL. THE CHAIRS SHOULD SUPPORT THE REINFORCING STEEL TO ACHIEVE A MINIMUM OF 2 INCHES OF CONCRETE COVER. IDEALLY, THE REINFORCEMENT SHOULD BE LOCATED 2 INCHES ABOVE THE BOTTOM OF THE CONCRETE SLAB

7. TEST A MINIMUM OF ONE SET OF CYLINDERS FOR EACH 9 CY OF CONCRETE, INCLUDING ONE SET OF

- CYLINDERS FOR EACH SEPARATE PAY ITEM.
- 8. NEW CONCRETE ITEMS SHALL ALIGN WITH ADJACENT CURB HORIZONTALLY AND VERTICALLY. CONTACT ENGINEER IF EXISTING CONDITIONS PREVENT PROPER ALIGNMENT.

L. JOINTS AND FINISHING

1. SAW JOINTS ON 15-FT SPACING, CUT TO A DEPTH OF AT LEAST ONE-THIRD OF THE PAVEMENT THICKNESS

- 2. JOINTS SHOULD BE SAWED WITHIN 18 HOURS OF CONCRETE PLACEMENT.
- 3. SEAL JOINTS WITH RUBBERIZED ASPHALT OR SILICATE SEALER.
- 4. AT A MINIMUM, EXPANSION JOINTS SHOULD BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT SUBJECT TO A DIFFERENT MAGNITUDE OF MOVEMENT, SUCH AS: LIGHT POLES, RETAINING WALL, OR MANHOLES.
- 5. AFTER CONSTRUCTION, EXPANSION AND CONSTRUCTION JOINTS SHOULD BE INSPECTED BY THE CONTRACTOR AND RESEALED, IF NECESSARY.

- 1. CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT POSITIVE DRAINAGE IS OBTAINED.
- 2. DOWNTURN CURB EDGES EXTENDING 18 INCHES BELOW ADJACENT GRADE FOR THE CONCRETE PAVEMENTS LOCATED IN THE AREAS SUBJECT TO HIGH VELOCITY FLOWS DURING FLOOD EVENT. THE DEEPENED EDGES WILL REDUCE THE POTENTIAL FOR UNDERMINING OF THE PAVEMENTS AND LOSS OF SUBGRADE SUPPORT DUE TO EROSION.

N. UTILITIES

- 1. UTILITY LOCATIONS ARE NOT SHOWN COMPLETELY OR PRECISELY ON THESE PLANS. AT LEAST 48 HOURS PRIOR TO BEGINNING WORK, NOTIFY ALL UTILITY COMPANIES THROUGH THE TEXAS EXCAVATION SAFETY SYSTEM (TESS) AT (800) 344-8377 AND HTTP://WWW.SAWS.ORG/SERVICE/LOCATES/ TO VERIFY THE EXACT LOCATION OF UTILITIES, AND COORDINATE AVOIDANCE OF UTILITIES WITH THE PROPER UTILITY REPRESENTATIVES. NOTIFY SAWS EMERGENCY OPERATIONS CENTER AT 210-704-SAWS WITH ANY ISSUES THAT MAY ARISE CONCERNING SAWS FACILITIES.
- 2. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS AND GREY FOREST UTILITIES MUST MAINTAIN ACCESS TO GAS VALVES THAT ARE IN THE PROJECT AREA. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- 3. ADJUST MANHOLES AND VALVE BOXES TO PROJECT GRADES (NO SEPARATE PAY ITEM).
- 4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING UTILITY FACILITIES. SHOULD THESE FACILITIES BE DAMAGED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL BE REQUIRED TO REIMBURSE THE OWNER OF THE UTILITY FOR THE TOTAL COST TO REPAIR OR REPLACE THE DAMAGED FACILITIES.

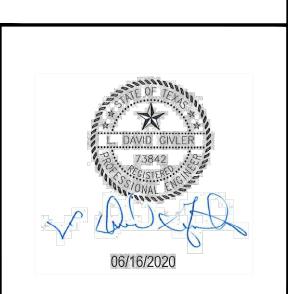
O. VEGETATION

- TREAT CUT TREE ROOTS WHICH ARE AT LEAST 1.5 INCHES IN DIAMETER WITH AN EMULSIFIED ASPHALT FORMULATED FOR USE ON DAMAGED PLANT TISSUES. MAKE CUTS NEAT AND TEMPORARILY COVER EXPOSED ROOTS WITH WET BURLAP TO MAINTAIN MOISTURE. COVER WITH EARTH AS SOON AS
- PROTECT TREES AND OTHER VEGETATION FROM UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS; SKINNING AND BRUISING OF BARK; STOCKPILING OF CONSTRUCTION MATERIALS WITHIN DRIPLINES: EXCESS FOOT OR VEHICULAR TRAFFIC AND PARKING OF VEHICLES WITHIN THE DRIP LINE.

P. REQUIRED SUBMITTALS

- 1. PHOTO DOCUMENTATION OF PRE-EXISTING CONDITIONS
- 2. ASPHALT PAVEMENT SECTION a. HMA SURFACE COURSE - TYPE "D" MIX DESIGN
- b. HMA BASE COURSE TYPE "B" MIX DESIGN
- c. FLEXIBLE BASE LAB TEST RESULT REPORT 3. CONCRETE PAVEMENT SECTION
- a. CONCRETE MIX DESIGN FOR CONCRETE PAVEMENT
- STEEL REINFORCEMENT SPECIFICATION SHEET
- d. CHAIR FOR STEEL REINFORCEMENT SPECIFICATION SHEET e. FLEXIBLE BASE LAB TEST RESULT REPORT

- 1. COORDINATE WITH PRIVATE PROPERTY OWNER AND CONFIRM ENTRY PERMISSION PRIOR TO ENTERING OR WORKING ON PRIVATE PROPERTY
- 2. ALL EXCAVATION DEPTHS ARE APPROXIMATE AND WILL BE ADJUSTED FOR FINAL GRADING AND DRAINAGE.



DETAILED DESIGN	06/16/2020
REVISION	DATE



AG LDG

TX Registration #F-002573

515 Busby Drive

San Antonio, Texas 78209 Phone: (210) 342-3991

CITY OF GREY FOREST

ROADWAY REPAIRS ON GREY FOREST DR. & HILLSIDE DR.

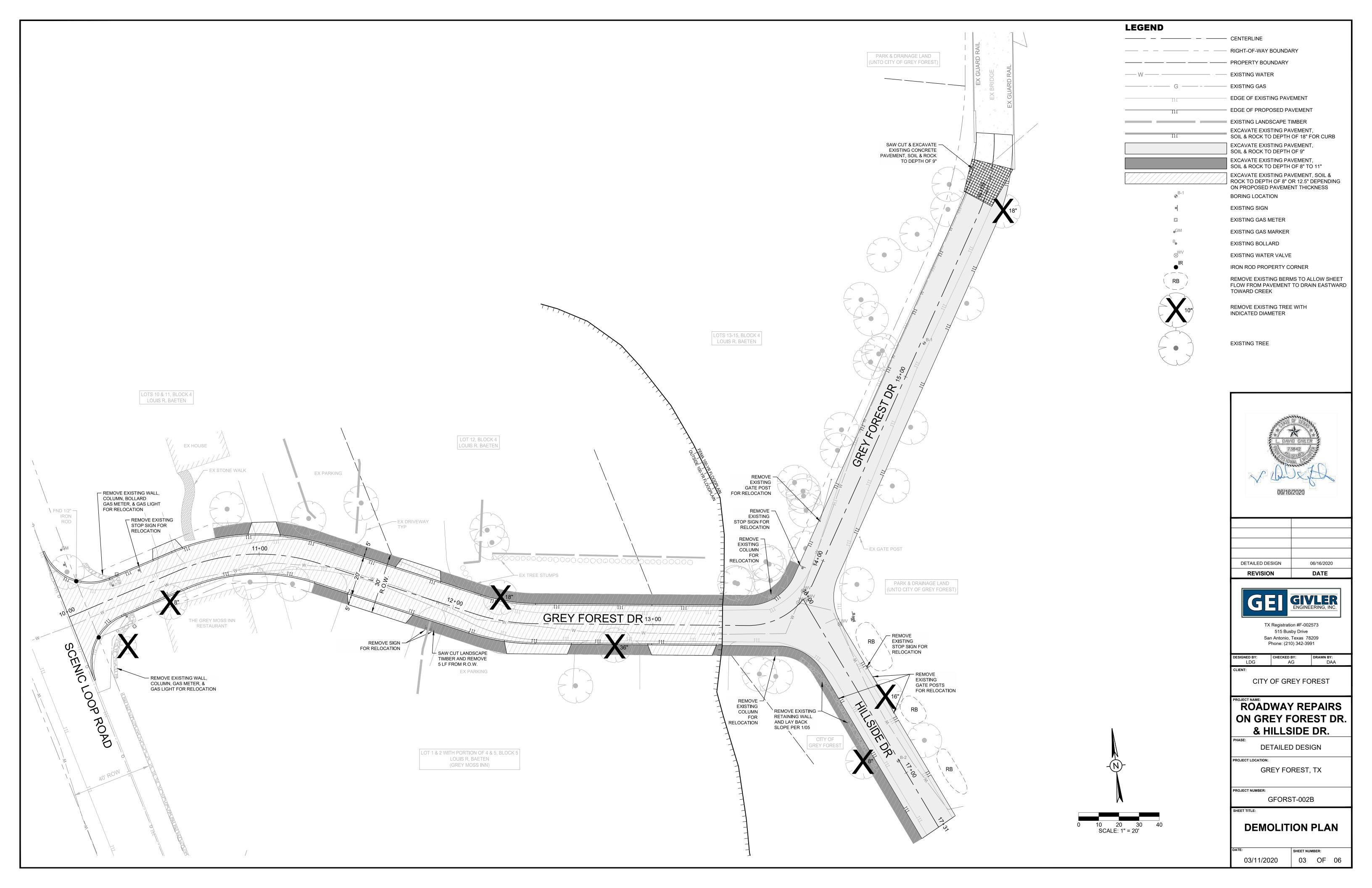
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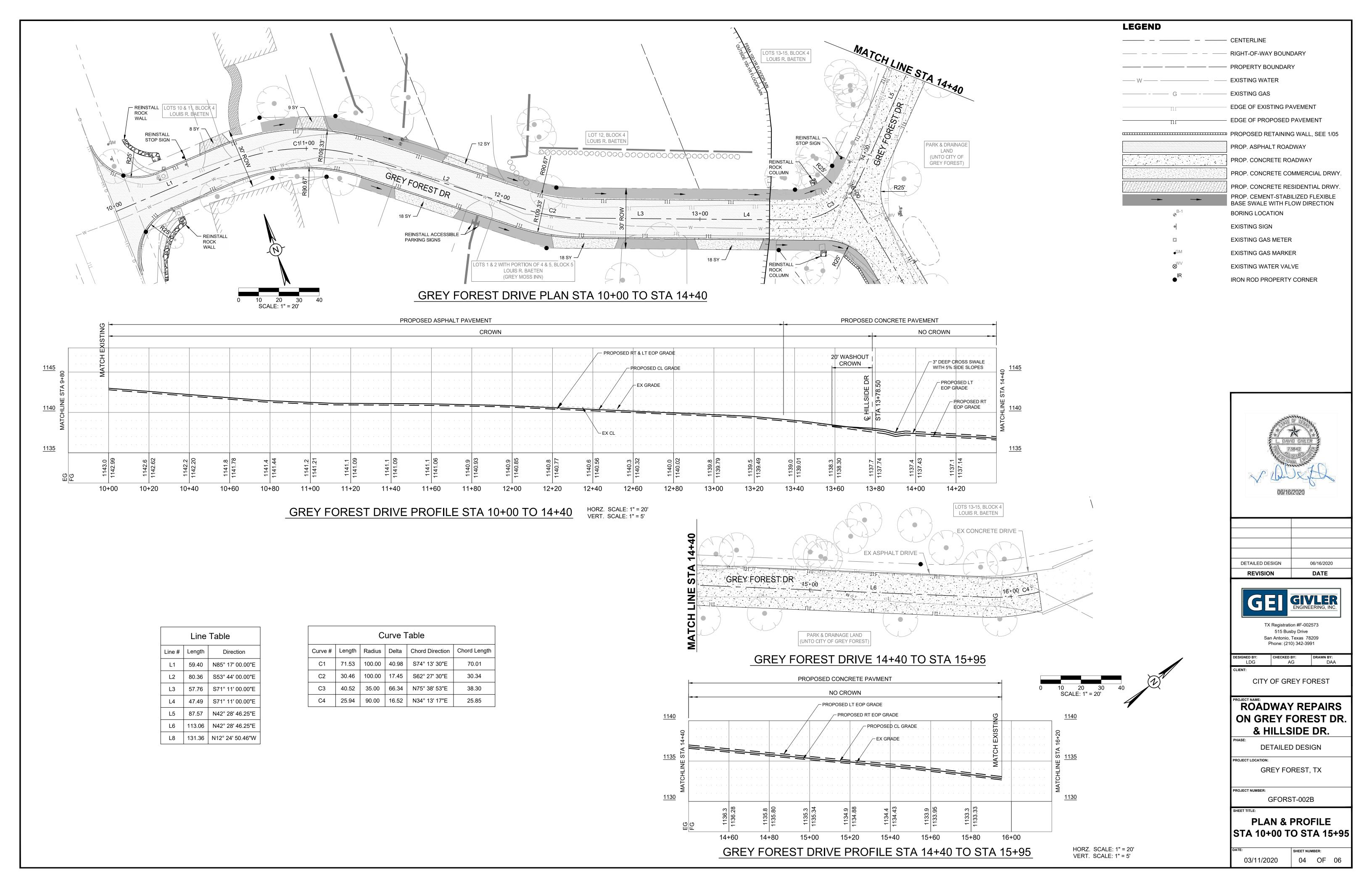
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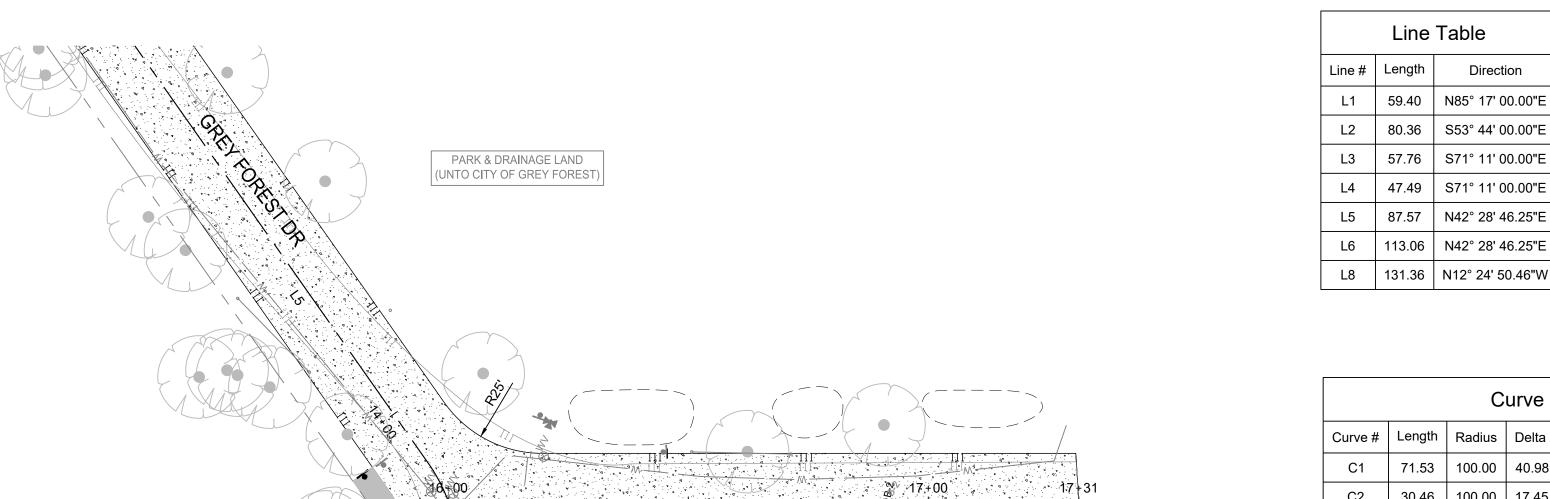
GENERAL NOTES

GREY FOREST, TX

03/11/2020 02 OF 06







LOTS 1 & 2 WITH PORTION OF 4 & 5, BLOCK 5 LOUIS R. BAETEN (GREY MOSS INN)

HILLSIDE DRIVE PLAN STA 16+00 TO STA 17+31

PROPOSED RT & LT EOP GRADE

– EX GRADE

16+20

16+40

HILLSIDE DRIVE PROFILE STA 16+00 TO STA 17+31

CROWN

PROPOSED CL GRADE

16+80

17+00

17+20

10 20 30 SCALE: 1" = 20'

<u>1145</u>

<u>1130</u>

HORZ. SCALE: 1" = 20' VERT. SCALE: 1" = 5'

LOTS 13-15, BLOCK 4 LOUIS R. BAETEN

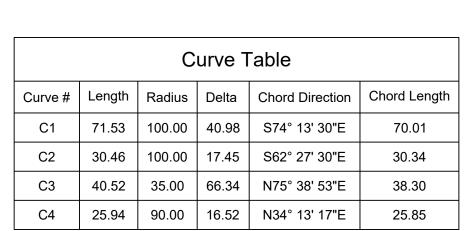
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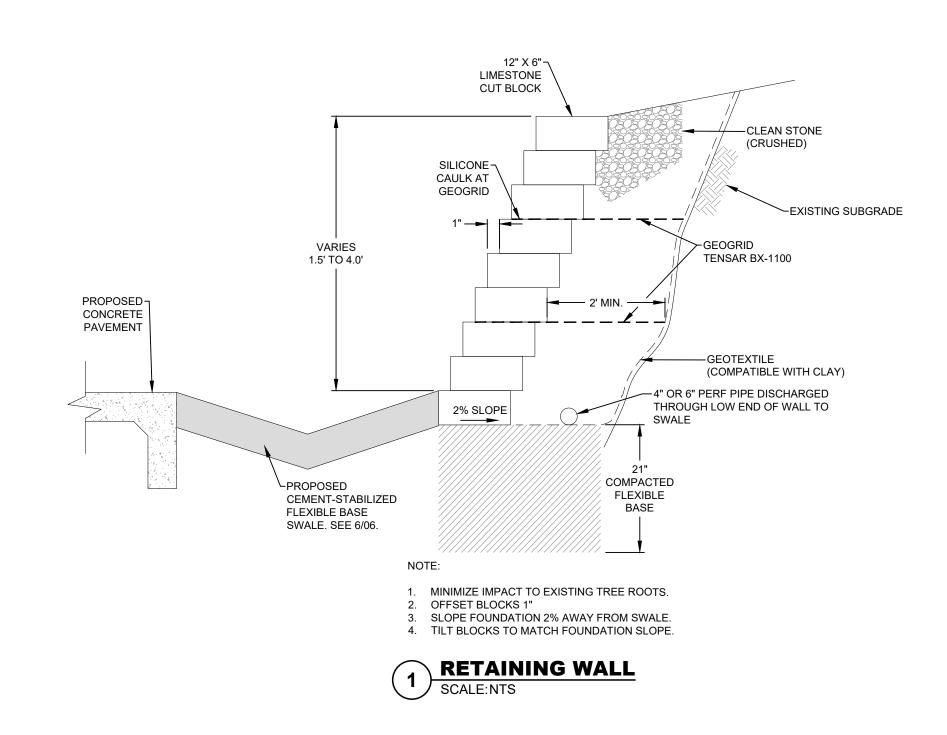
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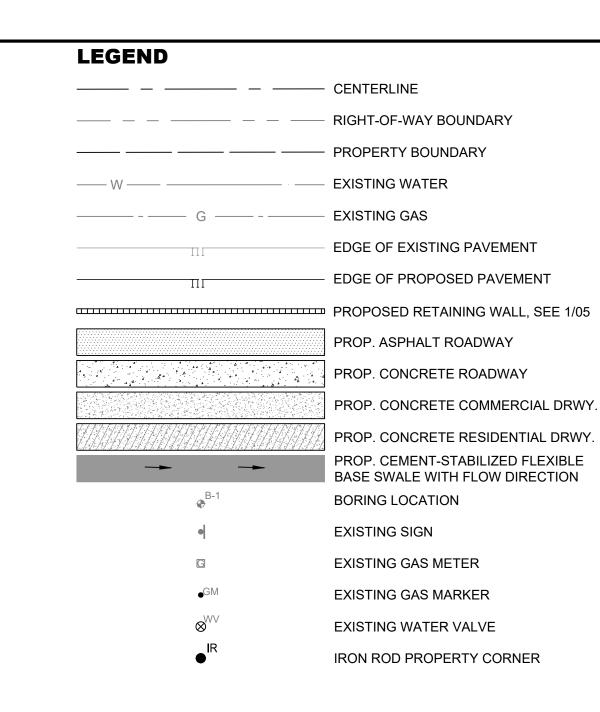
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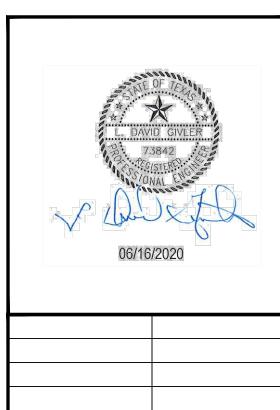
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FEMA 100-YR FLOODPLAIN
OUTSIDE 100-YR FLOODPLAIN









DETAILED DESIGN 06/16/2020

REVISION DATE



TX Registration #F-002573 515 Busby Drive San Antonio, Texas 78209 Phone: (210) 342-3991

LDG AG DAA

CITY OF GREY FOREST

ROADWAY REPAIRS ON GREY FOREST DR. & HILLSIDE DR.

DETAILED DESIGN

PROJECT LOCATIO

GREY FOREST, TX

PROJECT NUMBER

GFORST-002B

PLAN & PROFILE

TE: SHEET NUMBER: 03/11/2020 05 OF 06

STA 16+00 TO STA 17+31

