

CITY OF LUCAS CONSTRUCTION PLANS FOR

STINSON ROAD PAVING AND DRAINAGE IMPROVEMENTS

MAYOR
JIM OLK
CITY COUNCIL

KATHLEEN PEELE STEVE DUKE
WAYNE MILLSAP PHILIP LAWRENCE
TIM BANEY DEBBIE FISHER

CITY MANAGER
JONI CLARKE, CPM

CITY ENGINEER
STANTON FOERSTER, P.E.



OWNER
CITY OF LUCAS
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

ENGINEER OF RECORD:

**LAKES
ENGINEERING, INC.**

CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE #405
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-15243
WWW.LAKESENG.COM



END PROJECT
STA. 54+15.19



BEGIN PROJECT
STA. 1+00.73

VICINITY MAP

| KEY SHEET REVISIONS | |
|---------------------|-------------|
| DATE | DESCRIPTION |
| | |

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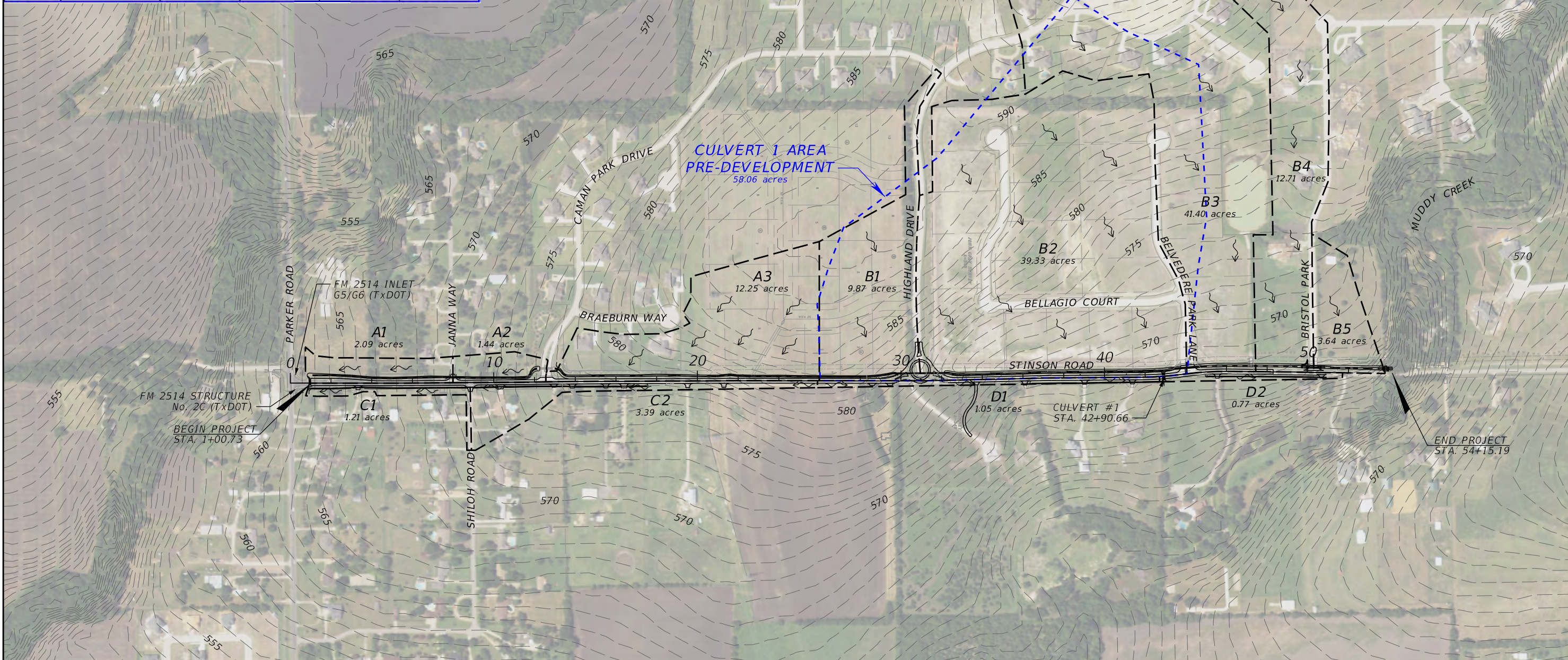
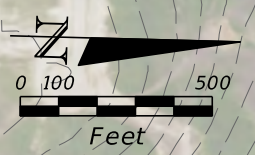
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|--------------|--|
| BC(1-12)-14 | BARRICADE AND CONSTRUCTION |
| CCCG12 | CONCRETE CURB AND CURB AND GUTTER |
| CHF000SE | CONCRETE HEADWALLS W/ FLARED WINGS (0° SKEW) |
| CRCP(1)-17 | CONTINUOUSLY REINFORCED CONCRETE PAVEMENT |
| EC(2)-16 | ROCK FILTER DAMS |
| EC(3)-16 | CONSTRUCTION EXITS |
| JS-14 | CONCRETE PAVING DETAILS JOINT SEALS |
| MB-15(1) | MAILBOX MOUNTING AND SPACING |
| PM(1-2)-12 | TYPICAL STANDARD PAVEMENT MARKINGS |
| PSET-SP | PRECAST SAFETY END TREATMENT (TYPE II) PARALLEL DRAINAGE |
| PSET-RR | PRECAST SAFETY END TREATMENT (TYPE II) RIPRAP DETAILS |
| SETB-PD | SAFETY END TREATMENT (FOR BOX CULVERTS) TYPE I - PARALLEL DRAINAGE |
| SETP-CD-A | SAFETY END TREATMENT (FOR ARCH PIPE CULVERTS) TYPE II - CROSS DRAINAGE |
| SETP-FW-A-0 | SAFETY END TREATMENT W/ FLARED WINGS (FOR ARCH PIPE) TYPE I - CROSS DRAINAGE |
| SETP-PD-A | SAFETY END TREATMENT (FOR ARCH PIPE CULVERTS) TYPE II - PARALLEL DRAINAGE |
| SMD(GEN)-08 | SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS |
| SMD(TWT)-08 | GENERAL NOTES AND DETAILS WEDGE & UNIVERSAL ANCHOR W/ THIN WALL TUBING POST |
| TCP(2-8a)-18 | ONE LANE TWO-WAY TRAFFIC CONTROL WITH YIELD SIGNS |
| TCP(3-1)-13 | TRAFFIC CONTROL PLAN MOBILE OPERATIONS UNDIVIDED HIGHWAYS |
| WZ(RCD)-13 | WORK ZONE ROAD CLOSURE DETAILS |

CALL BEFORE YOU DIG
TEXAS ONE CALL PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG, DRILL,
OR BLAST - STOP CALL
TEXAS ONE CALL SYSTEM
1-800-DIG-1155

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PLOT DATE: 1/11/2019
LAST SAVED: 2:06:56 PM
LOCATION: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\KEYSRD01.DGN

| Basin | Impervious Area (ac) | Pervious Area (ac) | Total Area (A) (ac) | Runoff Coefficient (C) | **Peak Discharge Flow Cf x (Q100) (cfs) |
|-------|-------------------------|-----------------------|---------------------------|---------------------------|---|
| A1 | 0.370 | 1.720 | 2.09 | 0.514 | 7.72 |
| A2 | 0.200 | 1.240 | 1.44 | 0.494 | 5.98 |
| A3 | 2.680 | 9.570 | 12.25 | 0.536 | 23.64 |
| B1 | 2.480 | 7.390 | 9.87 | 0.553 | 47.02 |
| B2 | 7.570 | 31.760 | 39.33 | 0.522 | 113.69 |
| B3 | 7.040 | 34.360 | 41.40 | 0.510 | 99.00 |
| B4 | 2.670 | 10.040 | 12.71 | 0.531 | 40.60 |
| B5 | 0.832 | 2.808 | 3.64 | 0.541 | 23.46 |
| C1 | 0.310 | 0.900 | 1.21 | 0.556 | 6.61 |
| C2 | 1.050 | 2.340 | 3.39 | 0.584 | 15.40 |
| D1 | 0.460 | 0.590 | 1.05 | 0.652 | 5.73 |
| D2 | 0.260 | 0.510 | 0.77 | 0.599 | 4.06 |
| Cvt#1 | | 58.060 | 58.06 | 0.420 | 102.72 |

STATE OF TEXAS
 CHRISTOPHER P. MESZLER
 112052
 LICENSED PROFESSIONAL ENGINEER
 01-11-2019



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 TBPE REG. F-15243



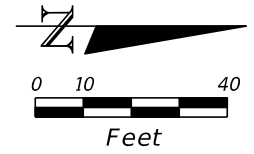
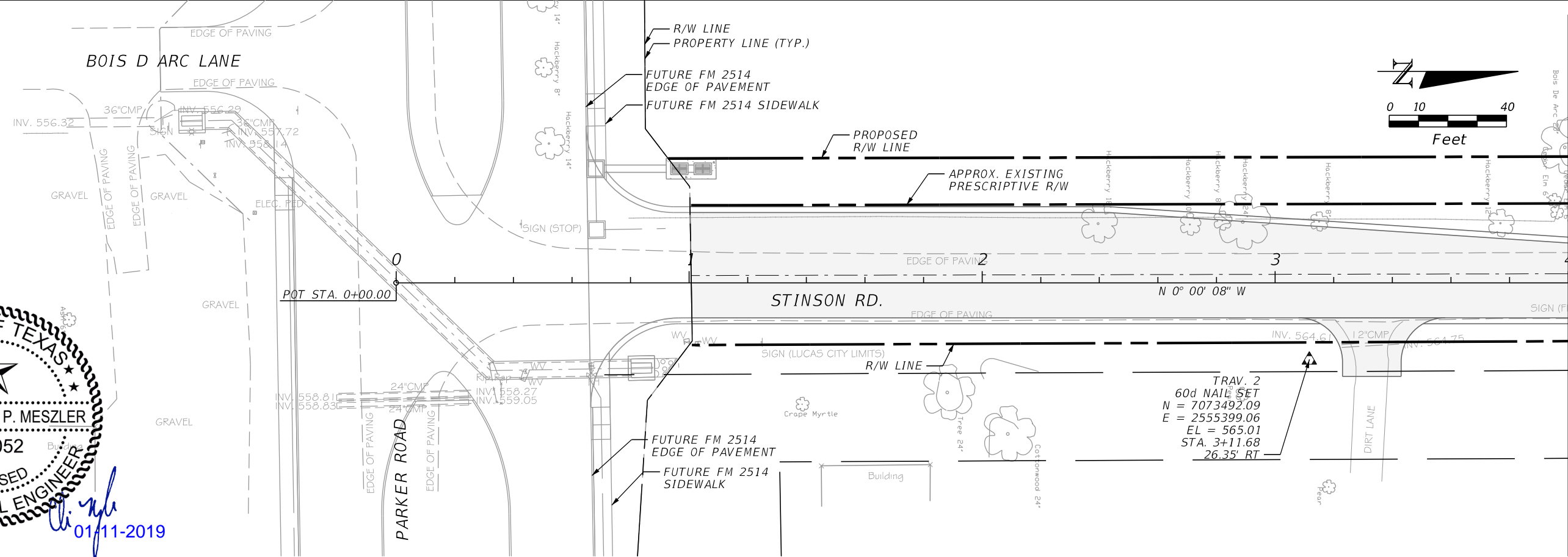
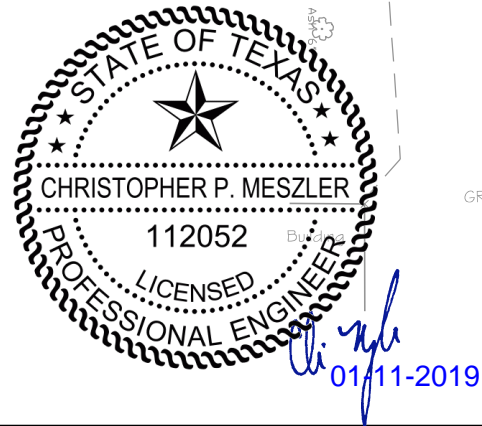
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

DRAINAGE AREA MAP

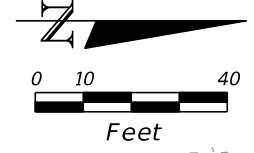
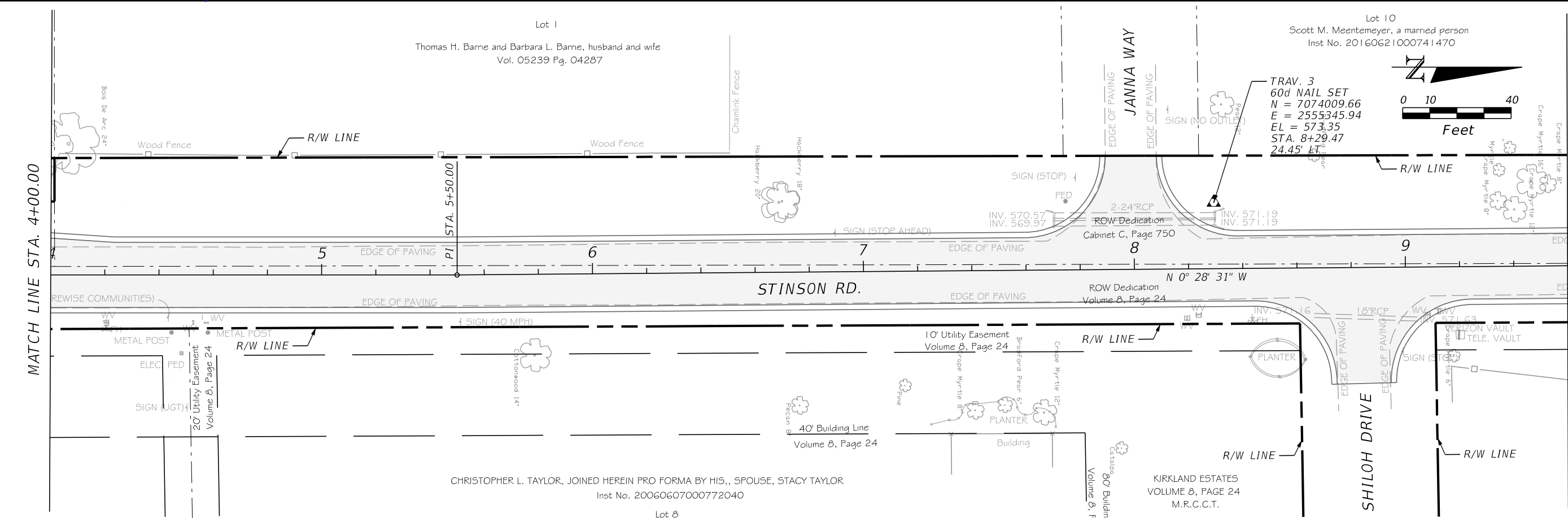
SHEET NO.
 2

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 TEXAS ONE CALL SYSTEM
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MATCH LINE STA. 4+00.00



MATCH LINE STA. 9+60.00

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PROJECT CONTROL

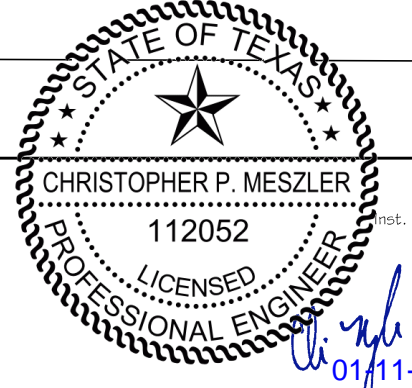
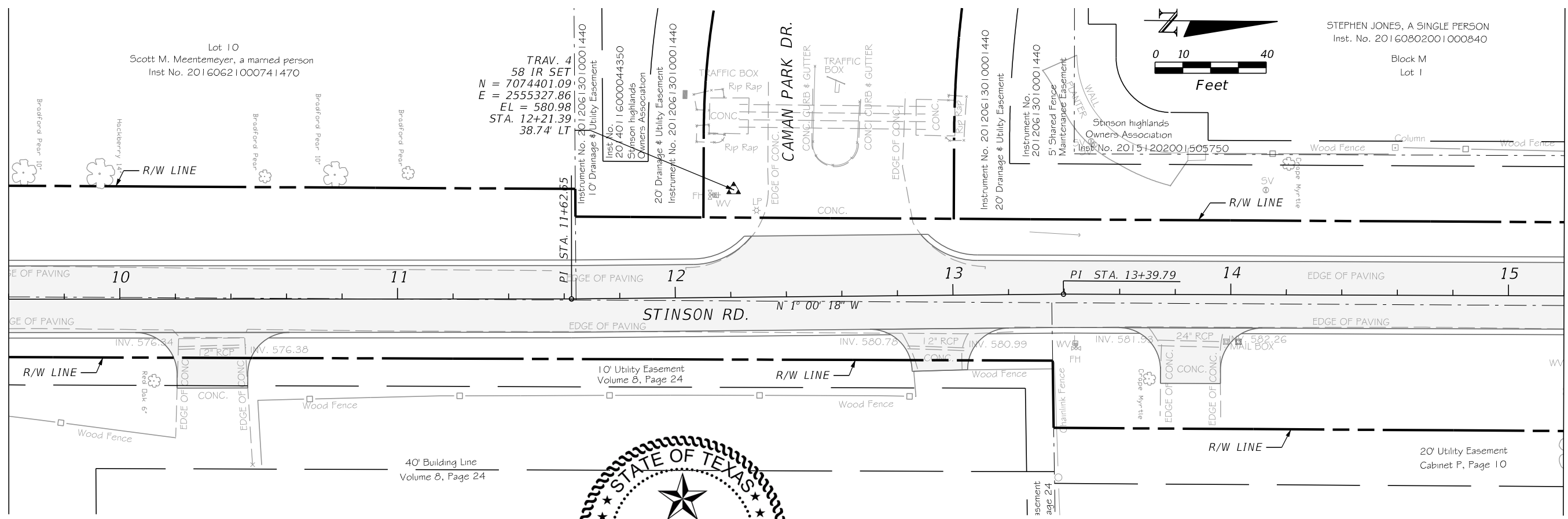
SHEET NO.
 3

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-555

PLOTTED BY: hremmenteria
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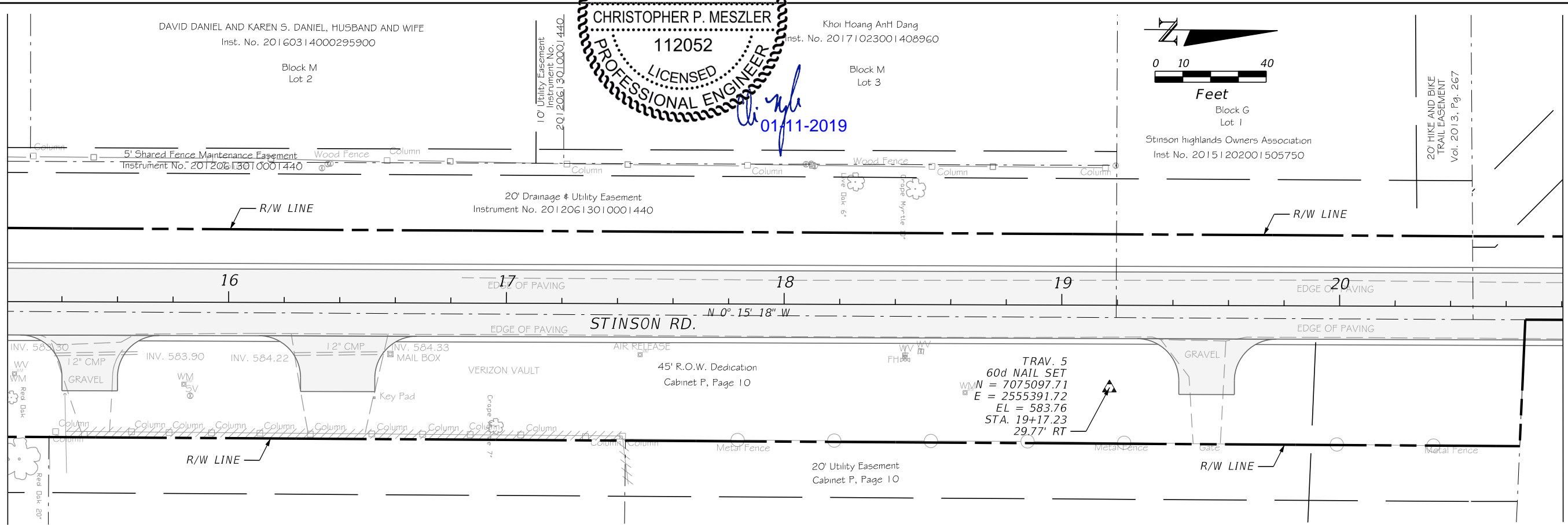
MATCH LINE STA. 9+60.00

MATCH LINE STA. 15+20.00



MATCH LINE STA. 15+20.00

MATCH LINE STA. 20+80.00



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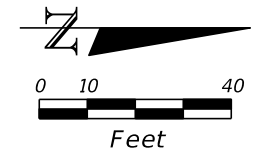


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 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

PROJECT CONTROL

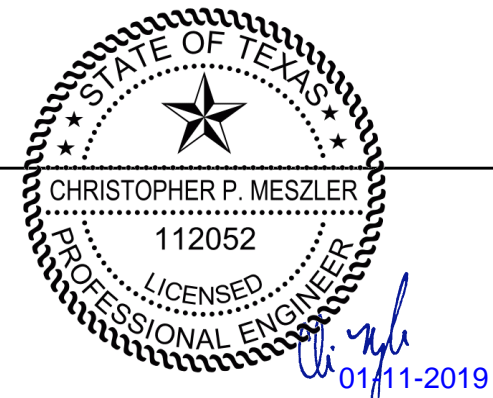
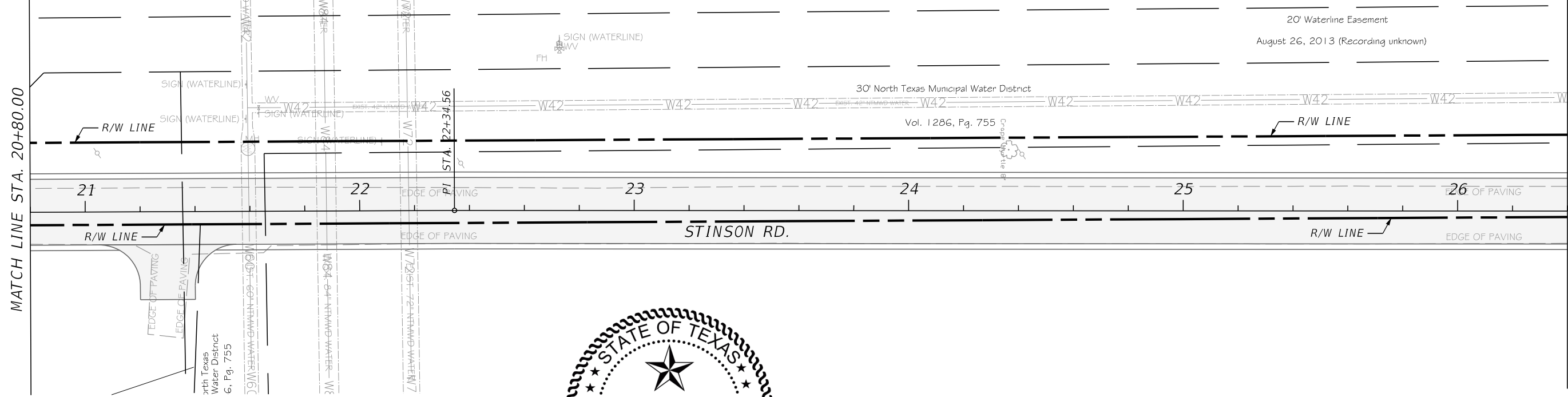
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CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
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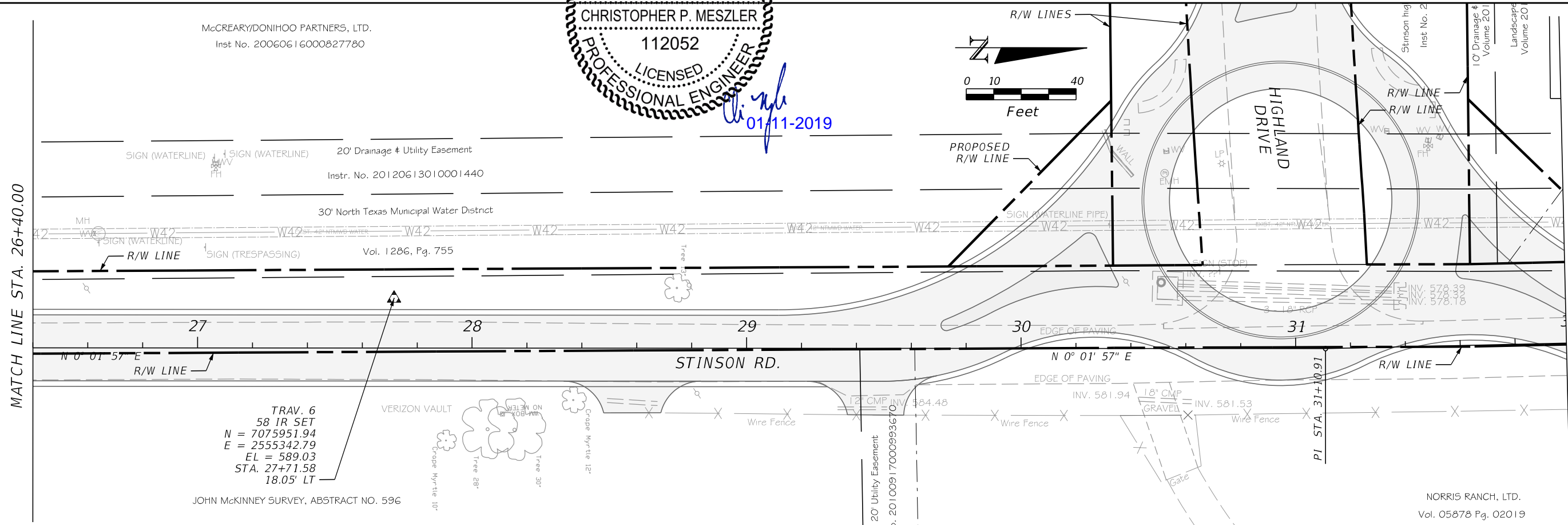
MATCH LINE STA. 20+80.00

MATCH LINE STA. 26+40.00



MATCH LINE STA. 26+40.00

MATCH LINE STA. 32+00.00



TRAV. 6
58 IR SET
N = 7075951.94
E = 2555342.79
EL = 589.03
STA. 27+71.58
18.05' LT

JOHN MCKINNEY SURVEY, ABSTRACT NO. 596

NORRIS RANCH, LTD.
Vol. 05878 Pg. 02019

Plotted by: hrementeria
Plot Date: 1/11/2019
Last Saved: 12:19:07 PM
Location: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\PLAYRD03.DGN

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STINSON ROAD IMPROVEMENTS
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

PROJECT CONTROL

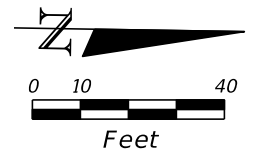
SHEET NO.
5

CALL BEFORE YOU DIG
TEXAS ONE CALL SYSTEM
1-800-DIG-1-555
OR BLAST - STOP CALL

Bristol Lucas Development, LLC,
Texas limited liability company
Instr. No. 20170818001106410

Bristol Lucas Development, LLC, a Texas limited liability company
Instr. No. 20170818001106410

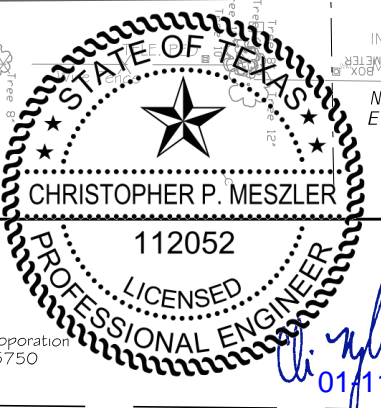
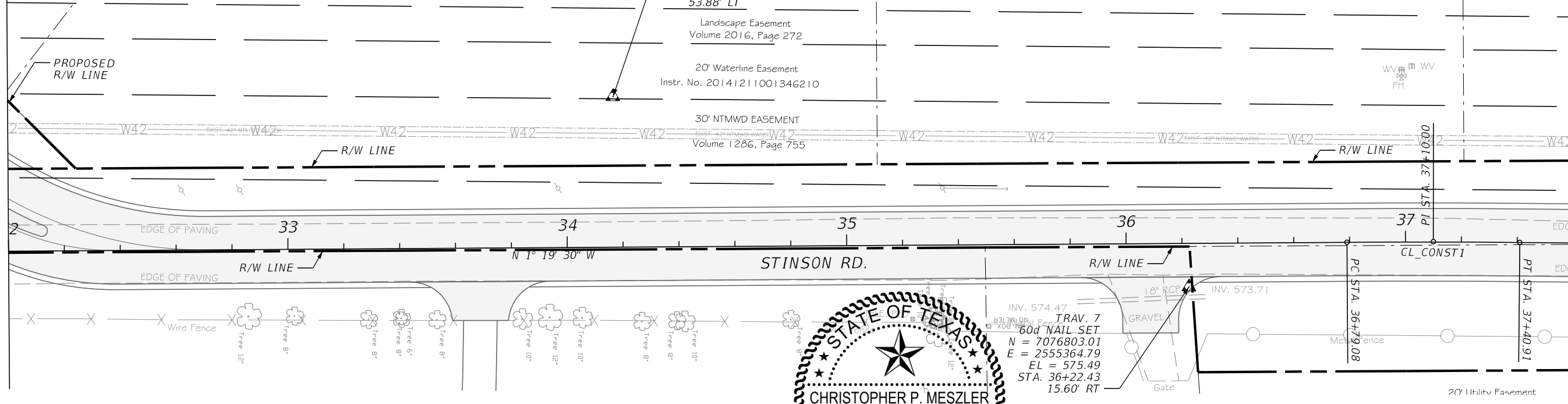
Bristol Lucas Development, LLC, a Texas limited liability company
Instr. No. 20170818001106410



TRAV. 11
60d NAIL SET
N = 7076595.74
E = 2555300.10
EL = 577.80
STA. 34+16.71
53.88' LT

MATCH LINE STA. 32+00.00

MATCH LINE STA. 37+60.00

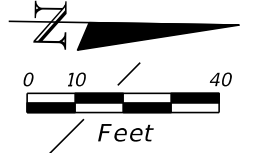


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Bristol Lucas Development, LLC, a Texas limited liability company
Instr. No. 20170818001106410
Lot 24

REIG INCORPORATED, a Texas Corporation
Instr. No. 20171005001335750
Lot 25

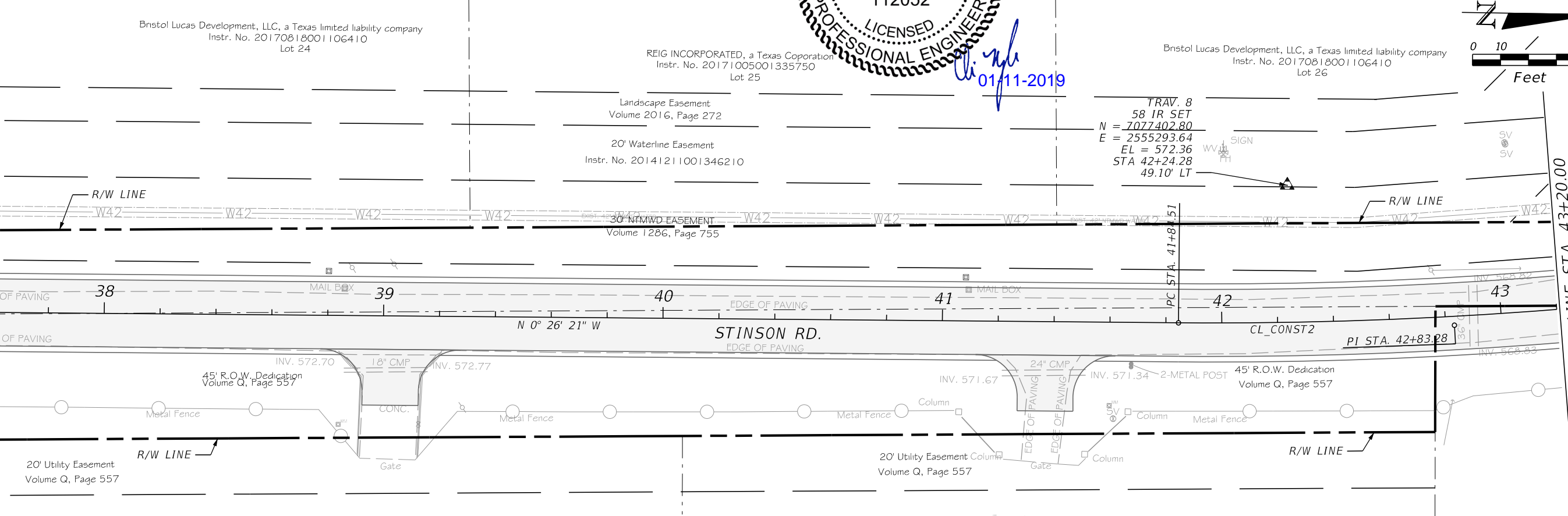
Bristol Lucas Development, LLC, a Texas limited liability company
Instr. No. 20170818001106410
Lot 26



TRAV. 8
58 IR SET
N = 7077402.80
E = 2555293.64
EL = 572.36
STA. 42+24.28
49.10' LT

MATCH LINE STA. 37+60.00

MATCH LINE STA. 43+20.00



| DATE | REVISIONS DESCRIPTION |
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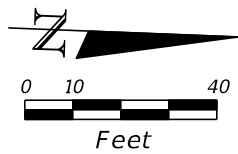
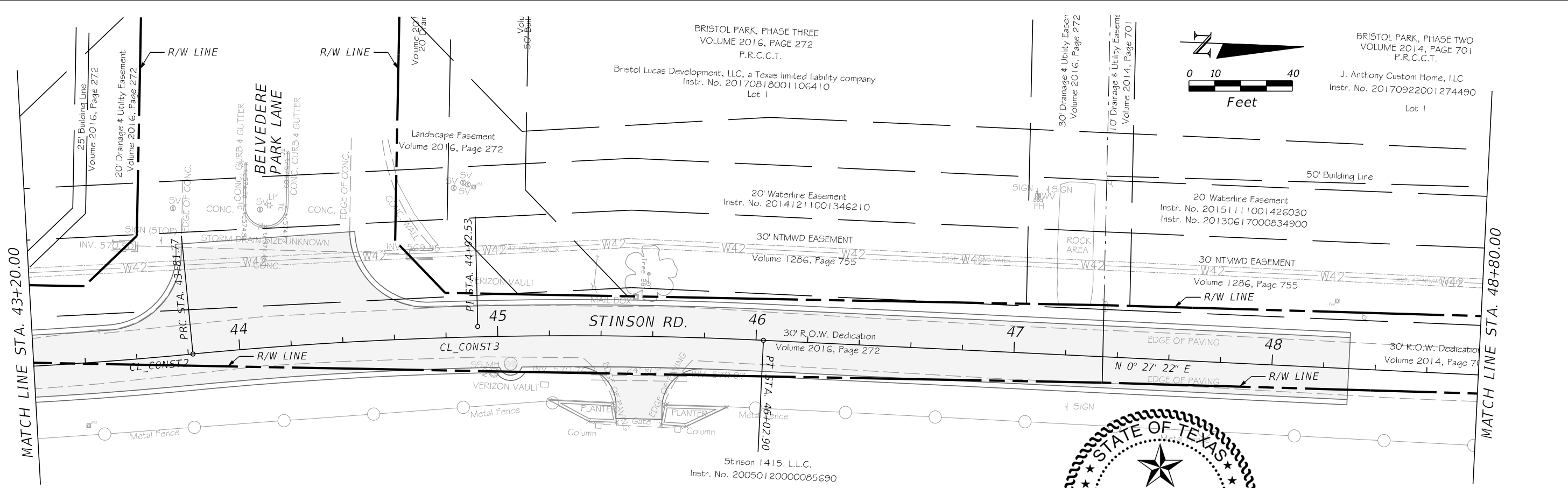
STINSON ROAD IMPROVEMENTS
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

PROJECT CONTROL

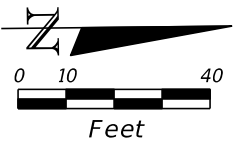
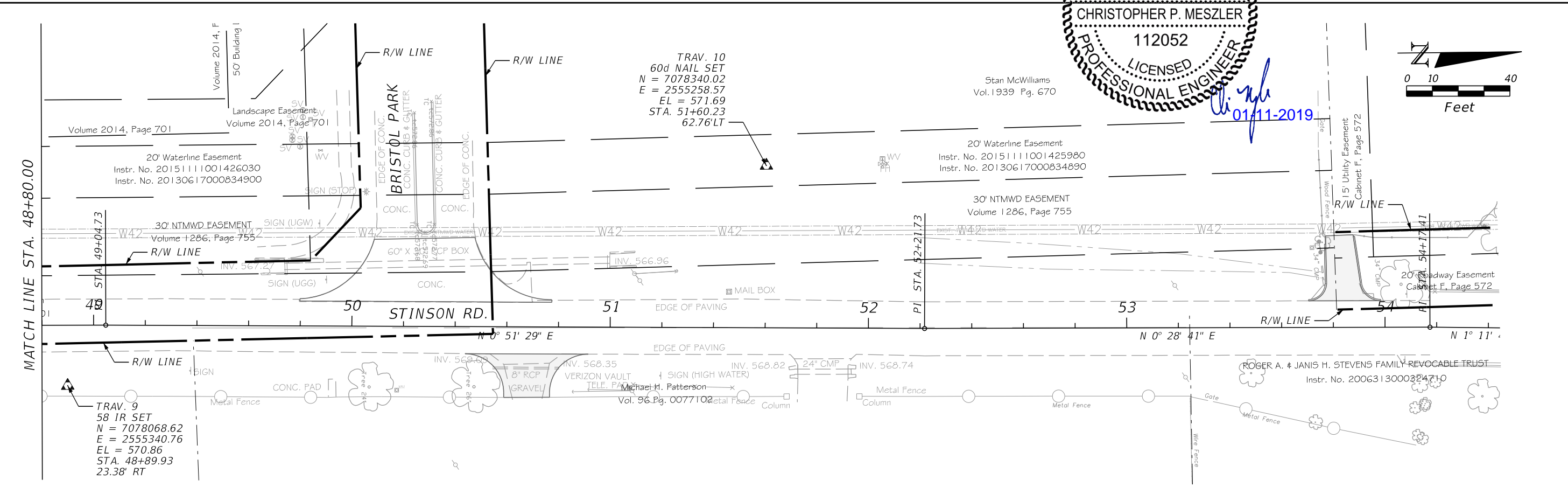
SHEET NO.
6

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS
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 OR BLAST - STOP CALL

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01/11-2019
 Christopher P. Meszler



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 TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

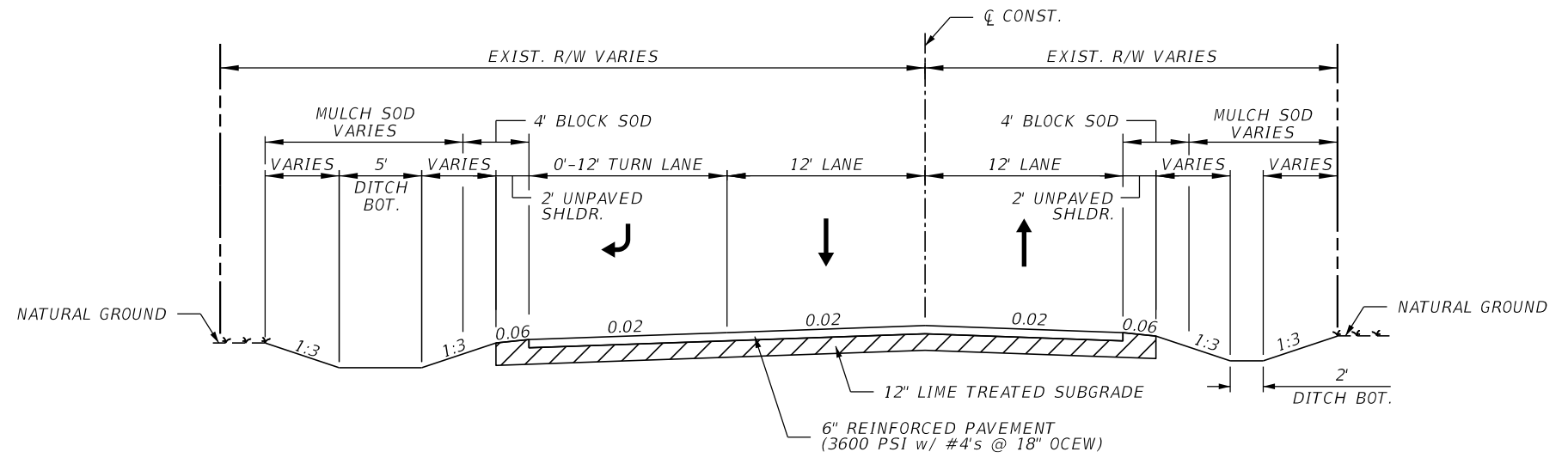
PROJECT CONTROL

SHEET NO.
 7

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1155

NOTES

1. ALL SUBGRADE COMPACTION UNDER PAVEMENT SHALL BE 98% STANDARD PROCTOR DENSITY AT +2% OF OPTIMUM MOISTURE.
2. CONSTRUCTION, EXPANSION, LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE IN ACCORDANCE WITH TXDOT STANDARDS. SEE TXDOT STANDARD CRCP(1)-17 AND JS-14 FOR DETAILS.
3. ALL THE REINFORCING STEEL AND TIE BARS SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A 615 (GRADE 60) OR ASTM A 996 (GRADE 60) OR ABOVE. CUTTING BARS WITH THE USE OF A TORCH IS NOT PERMITTED. FIELD-BENDING OF BARS WITH THE USE OF A TORCH IS NOT PERMITTED.
4. STEEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1 IN. HORIZONTALLY AND +/- 0.5 IN. VERTICALLY.
5. REPLACE MISSING OR DAMAGED TIE BARS WITHOUT ADDITIONAL COMPENSATION BY DRILLING MIN. 10 IN. DEEP AND GROUTING TIE BARS WITH TYPE III, CLASS C EPOXY. MEET THE PULL-OUT TEST REQUIREMENTS IN ITEM 361.
6. LONGITUDINAL REINFORCING STEEL SPLICES SHALL BE A MINIMUM OF 25 IN. STAGGER THE LAP LOCATIONS SO THAT NO MORE THAN 1/3 OF THE LONGITUDINAL STEEL IS SPLICED IN ANY GIVEN 12-FT. WIDTH AND 2-FT. LENGTH OF THE PAVEMENT.



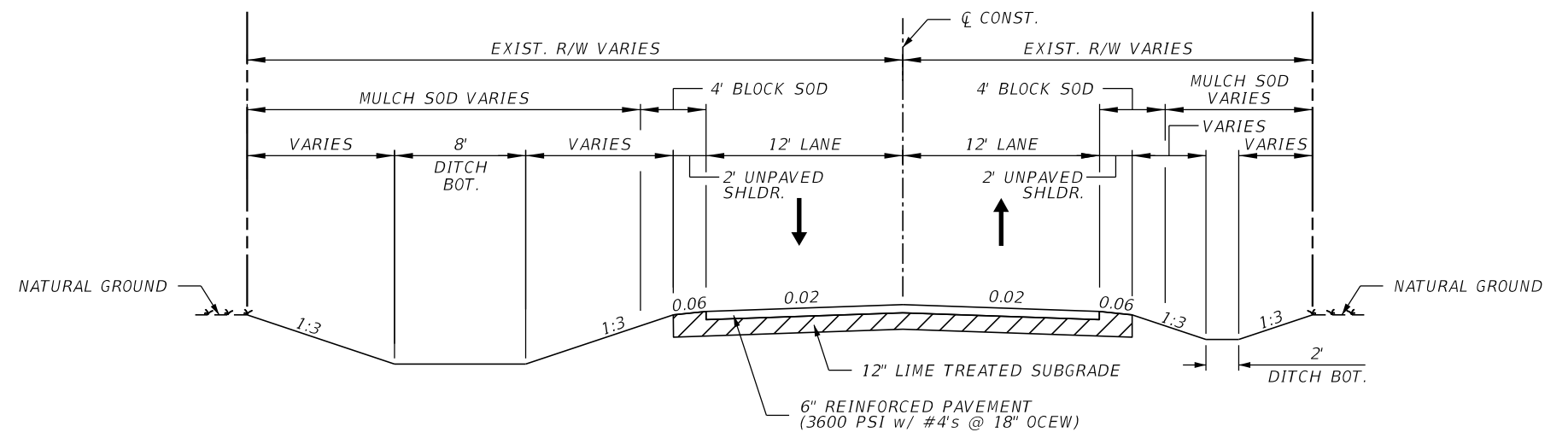
STINSON ROAD TYPICAL SECTION

STA. 1+00.73 TO 4+23.54

RECONSTRUCTION

6" REINFORCED CONC. PAVEMENT (3600 PSI w/ #4's @ 18" OCEW)
12" LIME TREATED SUBGRADE

DESIGN SPEED 45 MPH
POSTED SPEED 40 MPH



STINSON ROAD TYPICAL SECTION

STA. 4+23.54 TO 48+29.76

RECONSTRUCTION

6" REINFORCED CONC. PAVEMENT (3600 PSI w/ #4's @ 18" OCEW)
12" LIME TREATED SUBGRADE

DESIGN SPEED 45 MPH
POSTED SPEED 40 MPH



Signature
01-11-2019

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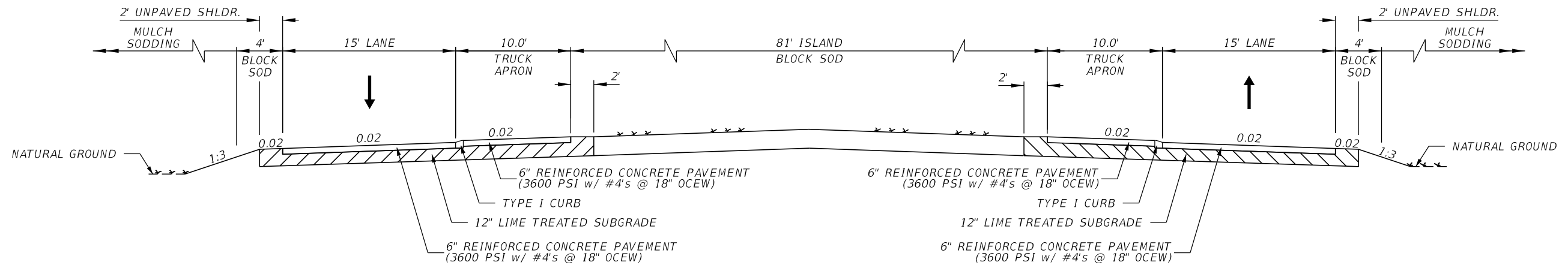
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

TYPICAL SECTIONS

SHEET NO.

8

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1155



STINSON ROAD ROUNDABOUT TYPICAL SECTION

STA. 29+14.65 TO 32+70.61

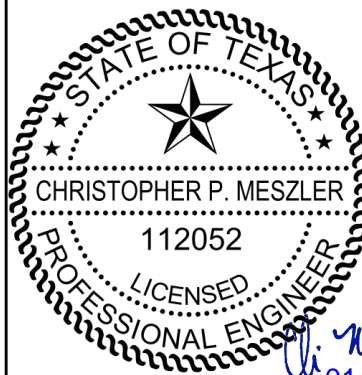
NEW CONSTRUCTION

6" REINFORCED CONC. PAVEMENT (3600 PSI w/ #4's @ 18" OCEW)
12" LIME TREATED SUBGRADE

DESIGN SPEED 45 MPH
POSTED SPEED 40 MPH
ROUNDABOUT ENTRY DESIGN SPEED 25 MPH

NOTES

1. ALL SUBGRADE COMPACTION UNDER PAVEMENT SHALL BE 98% STANDARD PROCTOR DENSITY AT +2% OF OPTIMUM MOISTURE.
2. FOR TYPE I CURB, SEE TXDOT STANDARD CCCG-12.
2. CONSTRUCTION, EXPANSION, LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE IN ACCORDANCE WITH TXDOT STANDARDS. SEE TXDOT STANDARD CRCP(1)-17 AND JS-14 FOR DETAILS.
3. ALL THE REINFORCING STEEL AND TIE BARS SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A 615 (GRADE 60) OR ASTM A 996 (GRADE 60) OR ABOVE. CUTTING BARS WITH THE USE OF A TORCH IS NOT PERMITTED. FIELD-BENDING OF BARS WITH THE USE OF A TORCH IS NOT PERMITTED.
4. STEEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1 IN. HORIZONTALLY AND +/- 0.5 IN. VERTICALLY.
5. REPLACE MISSING OR DAMAGED TIE BARS WITHOUT ADDITIONAL COMPENSATION BY DRILLING MIN. 10 IN. DEEP AND GROUTING TIE BARS WITH TYPE III, CLASS C EPOXY. MEET THE PULL-OUT TEST REQUIREMENTS IN ITEM 361.
6. LONGITUDINAL REINFORCING STEEL SPLICES SHALL BE A MINIMUM OF 25 IN. STAGGER THE LAP LOCATIONS SO THAT NO MORE THAN 1/3 OF THE LONGITUDINAL STEEL IS SPLICED IN ANY GIVEN 12-FT. WIDTH AND 2-FT. LENGTH OF THE PAVEMENT.



01/11-2019

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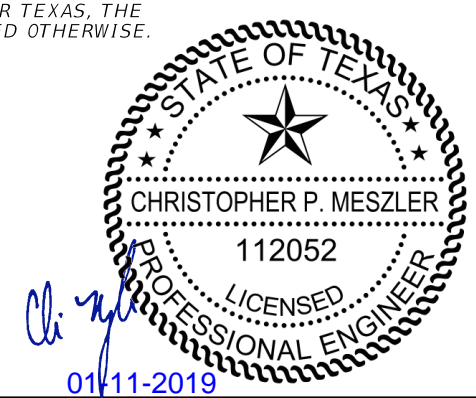
TYPICAL SECTIONS

SHEET NO.

9

CALL BEFORE YOU DIG
TEXAS ONE CALL PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG, DRILL,
OR BLAST - STOP CALL
TEXAS ONE CALL SYSTEM
1-800-DIG-1155

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, NOVEMBER 2014 EDITION, REFERRED TO AS "THE STANDARD SPECIFICATIONS".
2. IN THE EVENT AN ITEM IS NOT COVERED WITHIN THESE PLANS AND SPECIFICATIONS, THE TXDOT STANDARD SPECIFICATIONS SHALL APPLY.
3. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS BEFORE ANY WORK MAY BEGIN. ALL PERMIT FEES SHALL BE CONSIDERED INCIDENTAL TO PAY ITEMS PROVIDED.
4. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE UPDATE TO THE ENGINEER AND THE CONSTRUCTION INSPECTOR WITH THE MONTHLY PAY ESTIMATE.
5. THE CONTRACTOR WILL BE PAID ONLY FOR THE WORK WHICH IS COMPLETED IN STRICT CONFORMANCE TO THE PLANS AND CONSTRUCTION DETAILS.
6. FINAL PAYMENT TO CONTRACTOR SHALL BE RELEASED AFTER THE ACCEPTANCE OF THE FINAL INSPECTION BY AUTHORIZED PERSONNEL OF THE PUBLIC WORKS DEPARTMENT.
7. THE CONTRACTOR SHALL CONTACT THE ENGINEER SHOULD ANY DISCREPANCIES BE FOUND IN THE CONSTRUCTION PLANS AND/OR THE SPECIAL PROVISIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL NOT BE COMPENSATED FOR ANY WORK NOT AUTHORIZED BY THE ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONSTRUCTION STAKING BY A TEXAS REGISTERED PROFESSIONAL LAND SURVEYOR. WORK IS NOT PERMITTED OUTSIDE OF THE RIGHT OF WAY OR EASEMENTS WITHOUT PRIOR PERMISSION AND COORDINATION WITH THE CITY.
9. CONSTRUCTION OBSERVATION AND ADDITIONAL MATERIALS TESTING WILL BE PERFORMED BY REPRESENTATIVES OF THE OWNER, ENGINEER AND REVIEW AUTHORITIES AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THESE REPRESENTATIVES AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING THE REQUIRED INSPECTIONS AND ALLOWING FOR THEM IN HIS SCHEDULE OF OPERATIONS. CONTRACTOR WILL NOT BE ALLOWED ANY ADDITIONAL CONTRACT DAYS OR COMPENSATION AS A RESULT OF HIS FAILURE TO ADEQUATELY PROVIDE FOR AUTHORIZED INSPECTIONS.
10. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AND THE ENGINEER TWO WORKING DAYS BEFORE STARTING WORK.
11. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AND THE ENGINEER TWO WORKING DAYS IN ADVANCE OF ANY CONCRETE PLACING OR ASPHALT LAYING OPERATION.
12. THE CONTRACTOR MUST FURNISH AT LEAST TWO PHONE NUMBERS WHERE RESPONSIBLE PERSONNEL CAN BE REACHED IN CASE OF EMERGENCY DURING WORKING AND NONWORKING HOURS. IF THERE ARE ANY CHANGES, THE INFORMATION MUST BE UPDATED IMMEDIATELY FOR THE DURATION OF THE PROJECT.
13. IF CULTURAL RESOURCES (ARCHAEOLOGICAL FINDINGS UNEARTHED) ARE LOCATED DURING CONSTRUCTION, WORK SHALL STOP IMMEDIATELY IN THAT AREA. IMMEDIATELY NOTIFY THE ENGINEER.
14. THE ENGINEER/INSPECTOR WILL NOT SUPERVISE, DIRECT OR HAVE CONTROL OVER THE CONTRACTOR'S WORK; NOR WILL THE ENGINEER/INSPECTOR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION; FOR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT TO THE WORK OF CONTRACTOR; OR FOR ANY FAILURE OF CONTRACTOR TO COMPLY WITH LAWS, RULES, REGULATIONS, ORDINANCES, CODES OR ORDERS APPLICABLE TO CONTRACTOR FURNISHING AND PERFORMING THE WORK.
15. THE CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR RESETTING OR ESTABLISHING NEW BENCHMARKS AFFECTED BY THE CONSTRUCTION (NO SEPARATE PAY ITEM).
16. ALL CONCRETE SHALL BE IN COMPLIANCE WITH THE SPECIFIED CLASSES OF CONCRETE PER TXDOT SPECIFICATIONS.
17. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF TXDOT ITEM 360, CONCRETE PAVEMENT.
18. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE COMPLETE CONCRETE MIX (BATCH) DESIGN AT THE PRE- CONSTRUCTION CONFERENCE AND/OR AT LEAST TEN WORKING DAYS PRIOR TO THE START OF ANY CONCRETE PLACING OPERATIONS. VOLUMETRIC CONCRETE IS NOT APPROVED FOR THIS PROJECT.
19. CONTRACTOR SHALL SUBMIT PAVING CONSTRUCTION PLAN AS DESCRIBED IN TXDOT ITEM 360, CONCRETE PAVEMENT.
20. CONTRACTOR SHALL EMPLOY A CERTIFIED TESTING LABORATORY TO PERFORM DENSITY TESTING IN ACCORDANCE WITH TXDOT PROCEDURE TEX-115-E.
21. CONTRACTOR SHALL EMPLOY A CERTIFIED TESTING LABORATORY FOR CONCRETE SAMPLING AND TESTING IN ACCORDANCE WITH ASTM C31-75 AND ASTM C39-79 AND TEMPERATURE. ONE SET OF FIVE (6IN X 12IN) CONCRETE CYLINDERS (TEST 1@3, 1@7, 2@28 DAYS) FOR EACH DAY'S PRODUCTION. IF THE TWO 28 DAYS TEST FAIL TO MEET REQUIRED STRENGTH, TEST THE 5TH CYLINDER AT 48 DAYS. COST OF CONCRETE TESTING SHALL BE INCLUDED IN CONCRETE POUR OPERATIONS AT NO ADDITIONAL COST. ALL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER. TEST LOCATIONS SHALL BE MARKED IN THE PLANS AND SUBMITTED WITH THE RESULTS. CONCRETE SHALL BE SAMPLED AT POINT OF DISCHARGE AND INDICATED AS SUCH ON REPORT.
22. CONTRACTOR SHALL EMPLOY A CERTIFIED TESTING SUBCONSULTANT TO PERFORM PRESSURE TESTING REQUIRED ON ALL WATERWORKS.
23. ALL INSPECTION AND TESTING LABORATORIES MUST BE APPROVED BY THE CITY PRIOR TO PERFORMING ANY WORK. SUBMIT INSPECTION AND TESTING CERTIFICATIONS A MINIMUM OF TWO WEEKS PRIOR TO BEGINNING RELATED WORK.
24. WHEN AIR TEMPERATURE IS BETWEEN 85 DEG. F (30 DEG. C) AND 90 DEG F (32 DEG. C), REDUCE MIXING AND DELIVERY TIME FROM 1 1/2 HOURS TO 75 MINUTES, AND WHEN AIR TEMPERATURE IS ABOVE 90 DEG. F (32 DEG. C), REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES. NO ADMIXTURE SHALL BE PERMITTED IN THE CONCRETE MIX WITHOUT WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER. NO WATER SHALL BE ADDED TO THE CONCRETE MIX AT THE JOB SITE.
25. CONCRETE WASHOUT WILL NOT BE PERMITTED ON SITE AND MUST BE CONDUCTED AT A FACILITY DESIGNATED FOR SUCH PURPOSES.
26. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
27. THE USE OF WOOD FORMS FOR PAVEMENT CONSTRUCTION WILL BE PERMITTED ONLY FOR LEAVE-OUTS, ALLEYS, SIDEWALKS, DRIVEWAYS, BARRIER FREE RAMPS AND INTERSECTIONS. WOOD FORMS MAY BE PERMITTED FOR OTHER USES, BUT ONLY ON A CASE-BY-CASE BASIS, AND MUST BE EXPLICITLY AUTHORIZED BY THE ENGINEER.
28. DRIVEWAY APPROACHES DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED TO MATCH THE EXISTING CONDITIONS, AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE CITY OF LUCAS. DRAINAGE PIPE UNDER DRIVEWAY APPROACHES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED OR REPAIRED TO EQUAL OR BETTER THAN EXISTING CONDITION, AT THE CONTRACTOR'S EXPENSE.
29. THE CONTRACTOR SHALL PROTECT ALL EXISTING FENCES (TO REMAIN). ANY DAMAGES DUE TO CONTRACTOR'S ACTION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE CITY.
30. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THE CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE BUT NOT LIMITED TO TRENCH BACKFILL, SIDE SLOPES, FENCES, IRRIGATION SYSTEMS, DRIVEWAYS, PRIVATE YARDS, SIGNS AND ROADWAYS.
31. DISTURBED AREAS SHALL BE HYDRO MULCHED, WATERED & ESTABLISHED. DISTURBED CHANNEL SIDE SLOPES SHALL BE RESTORED WITH SOLID BLOCK SOD, WATERED, FERTILIZED & ESTABLISHED. THE ESTABLISHMENT OF GRASS IN DISTURBED AREAS SHALL BE DETERMINED BY THE CITY.
32. THE CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRIVATE PROPERTY WITHOUT A WRITTEN AGREEMENT WITH THE PROPERTY OWNER AND APPROVAL BY CITY. A COPY OF THIS AGREEMENT SHALL BE PROVIDED TO THE CITY. LETTERS OF FINAL APPROVAL AND RELEASE FROM THE AFFECTED PROPERTY OWNER(S) MUST BE SUBMITTED TO THE CITY BEFORE FINAL PAYMENT WILL BE AUTHORIZED ON THIS PROJECT.
33. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG ANY NATURAL DRAINAGE WAY, WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND HE SHALL REMOVE THE MATERIAL AT HIS OWN COST IF THE CITY SO DIRECTS.
34. THE CONTRACTOR SHALL PROTECT THE EXISTING TREES, BUSHES, LANDSCAPING PLANTS, SPRINKLERS, AND LAWNS UNLESS SHOWN OTHERWISE ON THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE EXISTING TREES, BUSHES, LANDSCAPING PLANTS, SPRINKLERS, AND LAWNS CAUSED BY THE CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER AND THE CITY AT THE CONTRACTOR'S SOLE EXPENSE.
35. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND IRRIGATION SYSTEMS. ADJUSTMENT OR RELOCATION OF IRRIGATION SYSTEM SHALL BE INSTALLED BY AN IRRIGATOR LICENSED IN THE STATE OF TEXAS AND, IF REQUIRED, SHALL BE INCIDENTAL TO RIGHT OF WAY PREPARATION.
36. NO TREES SHALL BE CUT EXCEPT ON SPECIFIC AUTHORITY OF THE ENGINEER. TREES 6-INCH OR LESS IN DIAMETER ARE SUBSIDIARY TO PROJECT (NO SEPARATE PAY ITEM).
37. SHOULD ANY TREE ROOTS BE FOUND IN CONFLICT WITH PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL HAVE A PROFESSIONAL ARBORIST PRUNE THE ROOTS TO PREVENT DAMAGE TO THE TREE. CONTRACTOR SHALL NOTIFY ENGINEER A LEAST 2 DAYS PRIOR TO ANY ROOT PRUNING ACTIVITIES.
38. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS, DRIVEWAYS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION AT ALL TIMES.
39. MAIL BOXES WILL BE RESET AS DIRECTED IN THE PLANS OR BY THE ENGINEER. ALL MAIL BOXES TO BE REMOVED SHALL BE TEMPORARILY LOCATED AS TO NOT INTERRUPT MAIL SERVICE AND RESET AS SOON AS ALLOWED BY CONSTRUCTION ACTIVITIES. ALL MAIL BOXES DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITH MAILBOXES OF EQUAL OR BETTER QUALITY, AND OF A SIMILAR STYLE TO THOSE BEING REPLACED.
40. ADJUSTMENT OF UNPAVED DRIVEWAYS BEHIND PROPERTY LINE AND RESTORATION OF THE SURFACE TO EQUAL OR BETTER THAN THE ORIGINAL IS INCIDENTAL WORK ON THIS PROJECT. CONTRACTOR MUST COORDINATE WITH THE ENGINEER AND PROPERTY OWNER PRIOR TO ACCESSING OR WORKING ON PRIVATE PROPERTY. HARMONIZATION IS INCIDENTAL TO THE RELATED WORK. NO ADDITIONAL PAYMENT WILL BE MADE.
41. EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS AND DEPTHS BASED ON BEST AVAILABLE RECORDS AND LIMITED FIELD DATA. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGES TO UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
42. CALL 1-800-DIG-TESS (1-800-344-8377) AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, SO THAT THE LOCATION OF UTILITIES CAN BE MARKED. IF NECESSARY, TEST DITCHES SHALL BE DUG TO VERIFY/DETERMINE ACTUAL FIELD LOCATIONS AND CONDITIONS.
43. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN. THIS DOCUMENT SHALL BE SUBMITTED TO THE CITY OF LUCAS AT THE PRE CONSTRUCTION CONFERENCE OR PRIOR TO THE START OF CONSTRUCTION.
44. ALL PAVEMENT MARKINGS, SIGN MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST ADDITIONS OF THE STANDARD HIGHWAY DEPARTMENT SIGN DESIGN FOR TEXAS, THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) UNLESS NOTED OTHERWISE.
45. SIGN LOCATIONS SHOWN ON THE PLANS ARE DIAGRAMMATIC. SIGNS SHALL BE PLACED IN CONFORMANCE WITH THE LATEST EDITION OF TMUTCD.
46. PAYMENT FOR EACH SIGN SHALL INCLUDE ALL MOUNTING HARDWARE, THE SIGN POLE AND WEDGE BASE SYSTEM. (TXDOT SMD (TWT)-08).
47. REFLECTORIZED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, PER TXDOT STANDARD SPECIFICATIONS, ITEM 666. PAVEMENT MARKERS SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS, ITEM 672.
48. ALL EXISTING SIGNS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE PROTECTED FOR REINSTALLATION BY THE CONTRACTOR. ALL EXISTING SIGNS PERMANENTLY REMOVED SHALL BE SALVAGED.



PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:11 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\GNWTRD01.DGN

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

GENERAL NOTES

| |
|-----------|
| SHEET NO. |
| 10 |

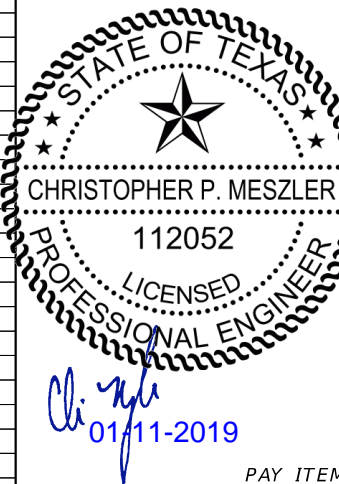
CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-TESS

| ITEM-CODE | | | DESCRIPTION | UNIT | TOTAL | |
|-----------|------------|-------|---|------|-------|-------|
| ITEM NO. | DESC. CODE | SP NO | | | EST. | FINAL |
| 100 | 6001 | | PREPARING ROW | AC | | 7 |
| 105 | 6011 | | REMOVING STAB BASE AND ASPH PAV (2"-6") | SY | 12634 | |
| 110 | 6001 | | EXCAVATION (ROADWAY) | CY | 5472 | |
| 132 | 6001 | | EMBANKMENT (FINAL)(ORDINARY COMPACTION)(TY A) | CY | 2196 | |
| 134 | 6003 | | BACKFILLING (TYPE C) | STA | 89 | |
| 160 | 6003 | | FURNISHING AND PLACING TOPSOIL (4") | SY | 21893 | |
| 162 | 6002 | | BLOCK SODDING | SY | 4333 | |
| 162 | 6004 | | MULCH SODDING | SY | 15891 | |
| 166 | 6001 | | FERTILIZER | AC | 4.523 | |
| 247 | 6449 | | FL BS (CIP)(TY D GR-1-2,3 OR 5)(FNL POS) | CY | 30 | |
| 260 | 6079 | | LIME TREATED (SUBGRADE)(6") | SY | 16763 | |
| 340 | 6011 | | D-GR HMA(SQ) TY-B PG64-22 | TN | 23 | |
| 344 | 6066 | | SUPERPAVE MIXTURES SP-C PG76-22 (OVERBUILD) | TN | 45 | |
| 344 | 6138 | | SUPERPAVE MIXTURES SP-D PG76-22 | TN | 78 | |
| 354 | 6189 | | PLANE ASHP CONC PAV (1.25") | SY | 1361 | |
| 360 | 6000 | | CONC PVMT (CONT REINF - CRCP) (6") | SY | 14550 | |
| 431 | 6001 | | PNEUMATICALLY PLACED CONCRETE | CF | 3813 | |
| 432 | 6058 | | BEDDING MATERIAL (VARIABLE) | CY | 86 | |
| 462 | 6003 | | CONC BOX CULVERT (4X2) | LF | 237 | |
| 462 | 6007 | | CONC BOX CULVERT (5X3) | LF | 142 | |
| 462 | 6010 | | CONC BOX CULVERT (6X3) | LF | 60 | |
| 464 | 6003 | | RC PIPE (CL III)(18 IN) | LF | 214 | |
| 464 | 6005 | | RC PIPE (CL III)(24 IN) | LF | 161 | |
| 464 | 6032 | | RC PIPE (ARCH)(CLASS III)(DES 3) | LF | 34 | |
| 464 | 6033 | | RC PIPE (ARCH)(CLASS III)(DES 4) | LF | 381 | |
| 466 | 6063 | | HEADWALL (CH-FW-A-0)(DES=4) | EA | 2 | |
| 467 | 6159 | | SET (TY I) (S=4FT)(HW=7FT)(6: 1)(P) | EA | 2 | |
| 467 | 6192 | | SET (TY I) (S=5FT)(HW=7FT)(6: 1)(P) | EA | 2 | |
| 467 | 6229 | | SET (TY I) (S=6FT)(HW=7FT)(6: 1)(P) | EA | 2 | |
| 467 | 6363 | | SET (TY II) (18 IN) (RCP) (6: 1) (P) | EA | 14 | |
| 467 | 6395 | | SET (TY II) (24 IN) (RCP) (6: 1) (P) | EA | 4 | |
| 467 | 6545 | | SET (TY II) (DES 3) (RCP) (6: 1) (P) | EA | 2 | |
| 467 | 6555 | | SET (TY II) (DES 4) (RCP) (6: 1) (P) | EA | 6 | |
| 506 | 6001 | | ROCK FILTER DAMS (INSTALL) (TY 1) | LF | 273 | |
| 506 | 6011 | | ROCK FILTER DAMS (REMOVE) | LF | 273 | |
| 506 | 6022 | | CONSTRUCTION EXITS (INSTALL) (TY 3) | SY | 356 | |
| 506 | 6024 | | CONSTRUCTION EXITS (REMOVE) | SY | 356 | |
| 506 | 6038 | | TEMP SEDMT CONT FENCE (INSTALL) | LF | 9508 | |
| 506 | 6039 | | TEMP SEDMT CONT FENCE (REMOVE) | LF | 9508 | |
| 529 | 6004 | | CONC CURB (MONO) (TY I) | LF | 317 | |
| 529 | 6005 | | CONC CURB (MONO) (TY II) | LF | 56 | |
| 530 | 6004 | | DRIVEWAYS (CONC) | SY | 873 | |
| 536 | 6004 | | CONCRETE DIRECTIONAL ISLAND | SY | 200 | |
| 550 | 6001 | | CHAIN LINK FENCE (INSTALL) (6') | LF | 93 | |
| 550 | 6003 | | CHAIN LINK FENCE (REMOVE) | LF | 71 | |
| 550 | 6006 | | GATE REMOVE | EA | 1 | |
| 552 | 6005 | | GATE (TYPE I) | EA | 1 | |
| 560 | 6011 | | MAILBOX INSTALL-S (TWW-POST) TY 4 | EA | 3 | |
| 1001 | 6006 | | LANDSCAPING ARCHITECTURAL FEATURES | | | |
| | | | RELOCATION/REPLACEMENT | LS | 1 | |
| 1004 | 6001 | | TREE PROTECTION | LS | 1 | |

| ITEM-CODE | | | DESCRIPTION | UNIT | TOTAL | |
|------------------------|------------|-------|--|------|-------|-------|
| ITEM NO. | DESC. CODE | SP NO | | | EST. | FINAL |
| TRAFFIC CONTROL | | | | | | |
| 500 | 6001 | | MOBILIZATION | LS | | 1 |
| 502 | 6001 | | BARRICADES, SIGNS AND TRAFFIC HANDLING | LS | | 1 |
| 510 | 6001 | | ONE-WAY TRAF CONT (FLAGGER CONT) | LS | | 1 |
| 512 | 6001 | | PORT CTB (FUR & INST)(SGL SLOPE)(TY 1) | LS | | 1 |
| 512 | 6025 | | PORT CTB (MOVE)(SGL SLP)(TY 1) | LS | | 1 |
| 512 | 6049 | | PORT CTB (REMOVE)(SGL SLP)(TY 1) | LS | | 1 |
| 560 | 6011 | | MAILBOX INSTALL-S (TWW-POST) TY 4 | LS | | 1 |
| 662 | 6063 | | WK ZN PAV MRK REMOV (W)4"(SLD) | LS | | 1 |
| 662 | 6095 | | WK ZN PAV MRK REMOV (Y)4"(SLD) | LS | | 1 |
| 6001 | 6001 | | PORTABLE CHANGEABLE MESSAGE SIGN | DA | 920 | |

| ITEM-CODE | | | DESCRIPTION | UNIT | TOTAL | |
|--|------------|-------|--------------------------------------|------|-------|-------|
| ITEM NO. | DESC. CODE | SP NO | | | EST. | FINAL |
| SIGNING & PAVEMENT MARKINGS | | | | | | |
| 644 | 6060 | | IN SM RD SN SUP & AM TY TWT(1)WS(P) | EA | | 28 |
| 644 | 6076 | | REMOVE SM RD SN SUP & AM | EA | | 10 |
| 666 | 6167 | | REFL PAV MRK TY II (W) 4" (BRK) | LF | | 74 |
| 666 | 6170 | | REFL PAV MRK TY II (W) 4" (SLD) | LF | 9429 | |
| 666 | 6174 | | REFL PAV MRK TY II (W) 6" (SLD) | LF | 147 | |
| 666 | 6184 | | REFL PAV MRK TY II (W) (ARROW) | EA | 3 | |
| 666 | 6199 | | REFL PAV MRK TY II (W) 36" (YLD TRI) | EA | 12 | |
| 666 | 6205 | | REFL PAV MRK TY II (Y) 4" (BRK) | LF | 2333 | |
| 666 | 6207 | | REFL PAV MRK TY II (Y) 4" (SLD) | LF | 4260 | |
| 666 | 6224 | | PAVEMENT SEALER 4" | LF | 16096 | |
| 666 | 6225 | | PAVEMENT SEALER 6" | LF | 147 | |
| 666 | 6231 | | PAVEMENT SEALER (ARROW) | EA | 3 | |
| 666 | 6243 | | PAVEMENT SEALER (YLD TRI) | EA | 12 | |
| 672 | 6009 | | REFL PAV MRKR TY II-A-A | EA | 3570 | |
| 672 | 6010 | | REFL PAV MRKR TY II-C-R | EA | 7 | |
| 678 | 6001 | | PAV SURF PREP FOR MRK (4") | LF | 16096 | |
| 678 | 6002 | | PAV SURF PREP FOR MRK (6") | LF | 147 | |
| 678 | 6009 | | PAV SURF PREP FOR MRK (ARROW) | EA | 3 | |
| 678 | 6023 | | PAV SURF PREP FOR MRK (36")(YLD TRI) | EA | 12 | |
| 678 | 6033 | | PAV SURF PREP FOR MRK (RPM) | EA | 3574 | |

| ITEM-CODE | | | DESCRIPTION | UNIT | TOTAL | |
|------------------|------------|-------|--|------|-------|-------|
| ITEM NO. | DESC. CODE | SP NO | | | EST. | FINAL |
| UTILITIES | | | | | | |
| 6000 | 6153 | | REPLACE ACCESS HOLE COVER | EA | | 1 |
| 6295 | 6001 | | DECORATIVE LIGHTING ASSEMBLY | EA | | 1 |
| 7049 | 6004 | | WATER MAIN PIPE (PVC) (6IN) | LF | 45 | |
| 7049 | 6087 | | TAPPING SLEEVE AND VALVE (12IN X 6IN) | EA | 2 | |
| 7049 | 6122 | | ADJUSTING METER BOX | EA | 3 | |
| 7049 | 6161 | | REMOVE AND RELOCATE FIRE HYDRANT | EA | 2 | |
| 7126 | 6007 | | ADJUST AND/OR RELOCATE WATER METER BOX | EA | 1 | |
| 7128 | 6005 | | MULTI 3" CONDUITS AND CONDUCTORS (BORE | LF | 48 | |
| 7152 | 6021 | | CONNECT TO EXISTING WATER LINE | EA | 2 | |
| 7155 | 6051 | | ADJ EXST SAN SWR MNHL FNL GRADE | EA | 1 | |
| 7156 | 6006 | | ADJUST EXISTING FIRE HYDANT | EA | 3 | |
| 7164 | 6013 | | WTR GATE VALVE (6") | EA | 2 | |
| 7164 | 6019 | | ADJ EXT WTR VALVE BOX | EA | 2 | |
| 7167 | 6009 | | CUT AND PLUG EXIST WATER LINE (2"-12") | EA | 2 | |
| 7169 | 6006 | | 6" GATE VALVE AND BOX | EA | 3 | |
| 7173 | 6022 | | ADJUST VALVE BOX TO GRADE | EA | 14 | |
| 7177 | 6003 | | RELOC EXIST METER & METER BOX | EA | 2 | |
| 7180 | 6010 | | CAP PIPE (6IN) | EA | 2 | |
| 7181 | 6024 | | RELOCATE FIRE HYDRANT | EA | 2 | |



PAY ITEM NOTES:

- COST FOR ALL TESTING AND SAMPLING REQUIRED PER THE STANDARD SPECIFICATION AND GENERAL NOTES IS TO BE INCLUDED IN THE RELATED PAY ITEMS.
- 431 6001 INCLUDES ALL MATERIAL AND LABOR REQUIRED FOR CONSTRUCTION OF ISOLATION JOINT CONNECTIONS BETWEEN CONCRETE DITCH LINING AND CONCRETE HEADWALLS.
- 506 6022 QUANTITY IS NOT A PLAN QUANTITY AND MAY BE INCREASED OR DECREASED
- 506 6024 BASED ON CONTRACTOR'S PHASING AND WORK ZONE. NO ADDITIONAL PAYMENT PROVIDED.
- 506 6038 INCLUDES REQUIRED INSPECTIONS WEEKLY AND AFTER RAIN EVENTS. NO EXTRA PAYMENT FOR REPAIRS TO EXISTING INSTALLATIONS.
- 550 6008 CONTRACTOR SHALL MATCH EXISTING FENCE TYPE, MATERIAL, CONSTRUCTION, AND HEIGHT WHERE REPLACING FENCING. NO ADDITIONAL PAYMENT FOR VARYING FENCE TYPES.
- 560 6011 EXISTING MAILBOXES TO BE RELOCATED SHALL BE PRESERVED AND INSTALLED OR REPLACED IN EQUAL OR BETTER CONDITION MATCHING MATERIAL TYPE, SIZE, AND COLOR. NO ADDITIONAL PAYMENT PROVIDED FOR VARYING MAILBOX TYPES.
- 672 6009 INCLUDES BLUE RPM'S AS SHOWN IN PLANS.
- 1004 6001 PROVIDE TREE PROTECTION ON ALL TREES TO REMAIN WITHIN 5 FT OF PROPOSED WORK OR WORK ZONE. LUMP SUM ITEM INCLUDES ALL TREES AS DESCRIBED AND DIRECTED BY THE ENGINEER.

PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 2:30:54 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\SUMQRD01.DGN

| REVISIONS | |
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| DATE | DESCRIPTION |
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CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243

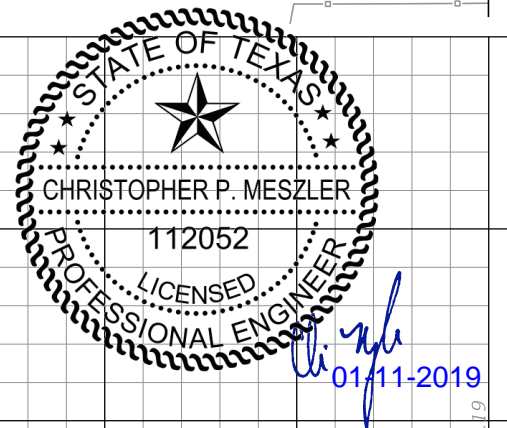
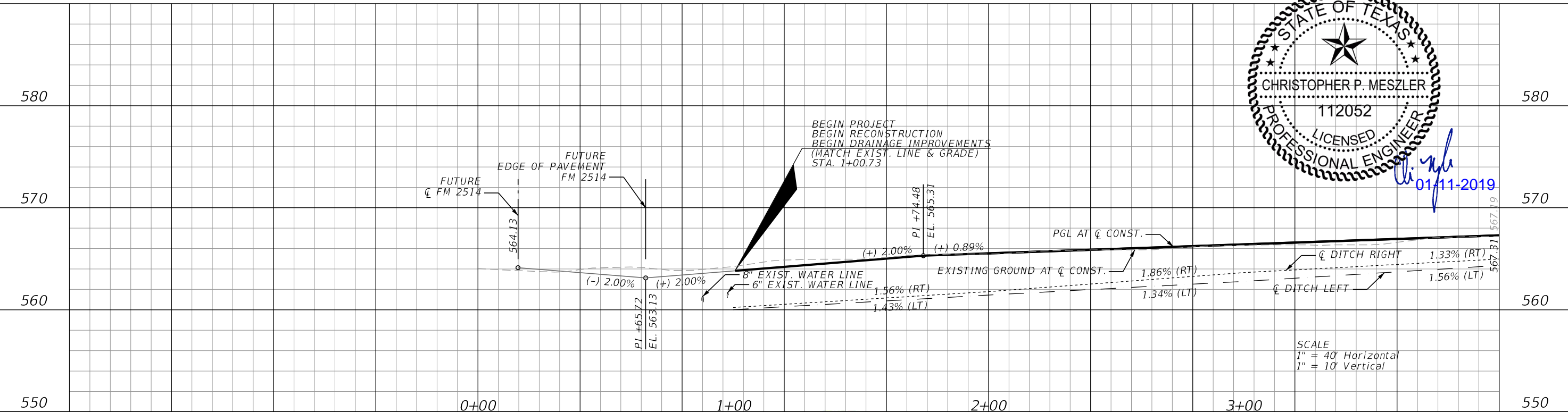
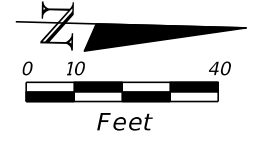
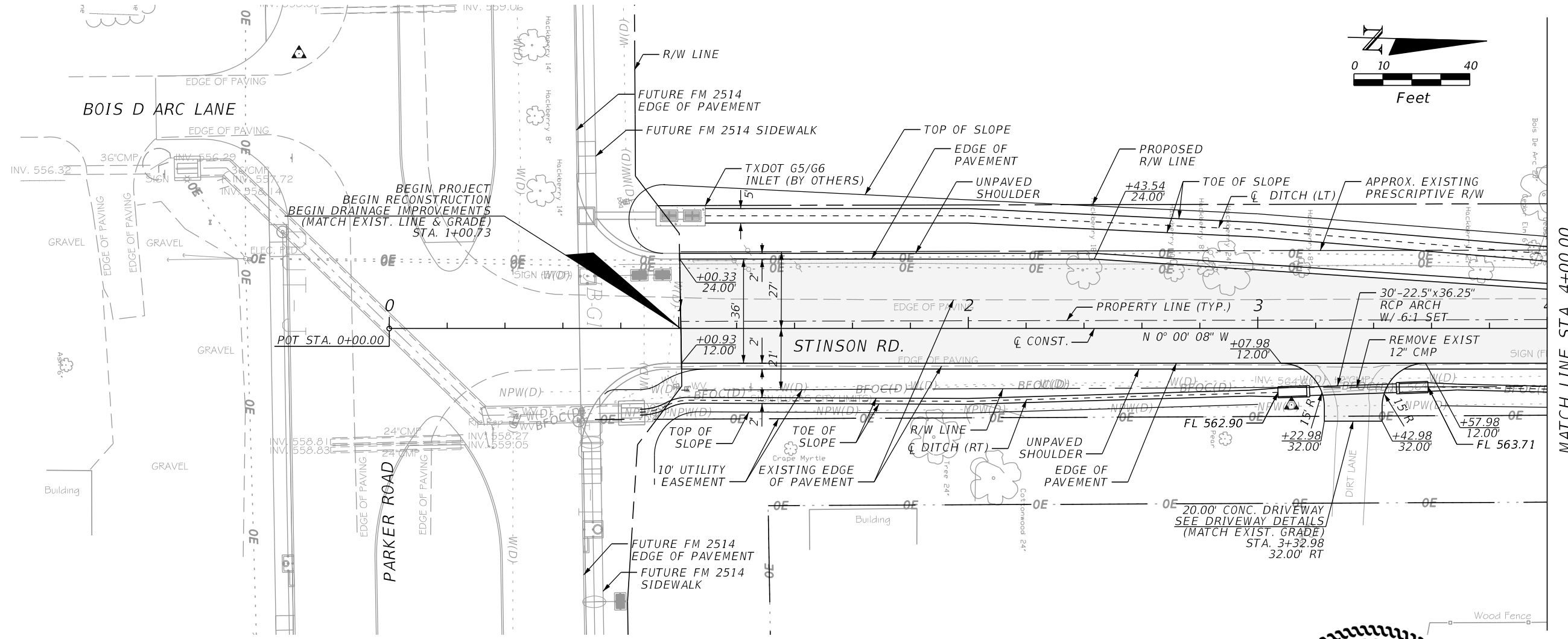


STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

**ESTIMATES AND
SUMMARY OF QUANTITIES**

SHEET NO.
11

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-55
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL

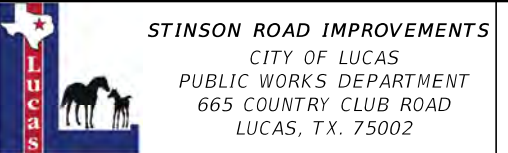


PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 2:05:50 PM
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| DATE | REVISIONS DESCRIPTION |
|------|-----------------------|
| | |

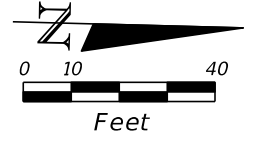


CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243



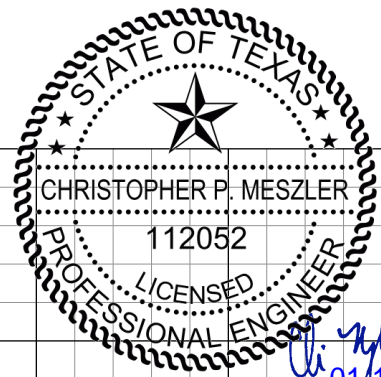
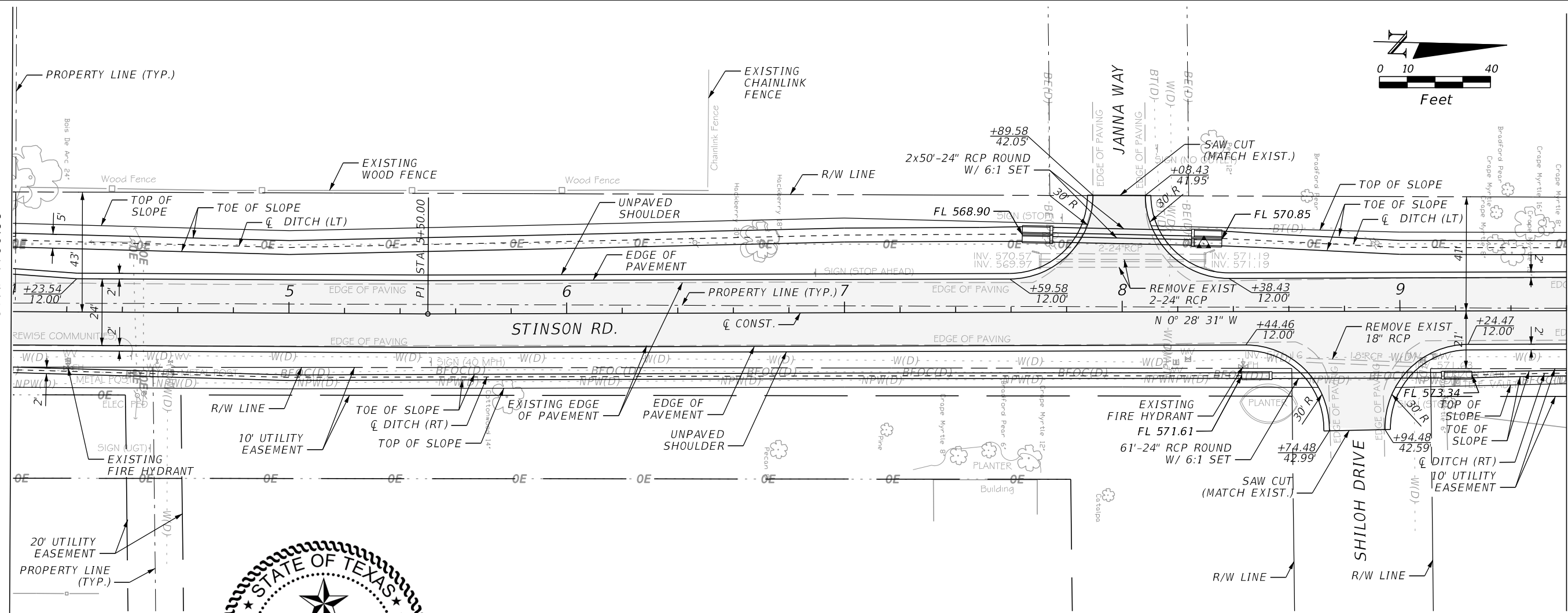
PLAN & PROFILE
 SHEET NO. 12

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1555

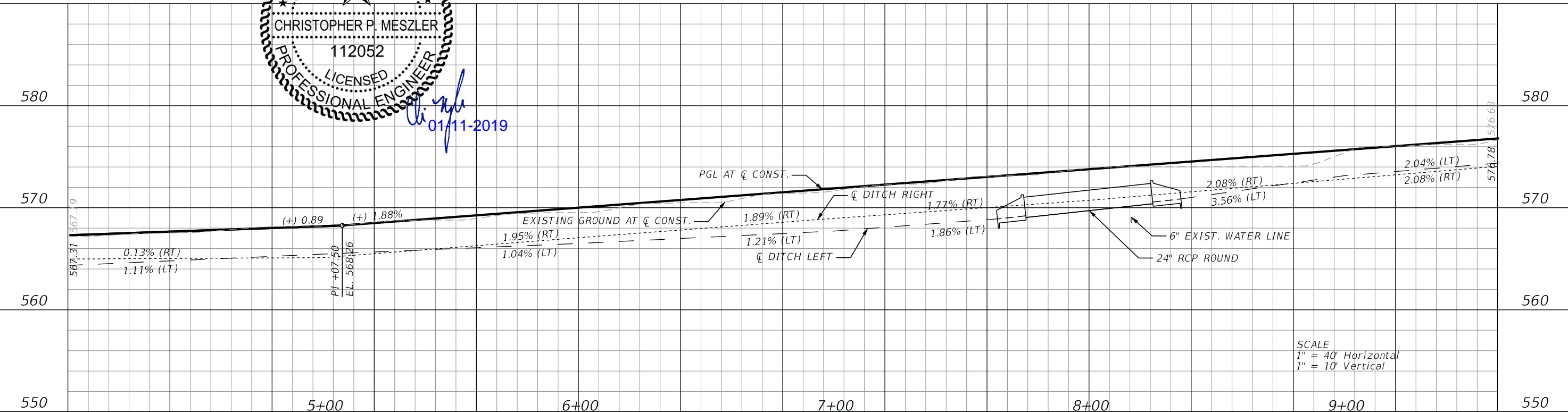


MATCH LINE STA. 4+00.00

MATCH LINE STA. 9+60.00



Handwritten signature and date:
 01/11/2019



SCALE
 1" = 40' Horizontal
 1" = 10' Vertical

PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:14 PM
 LOCATION: C:\transfer\18-112 Stinson Road\18-112 Stinson Road Plan Set\Roadway\PLANRD02.DGN

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 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243

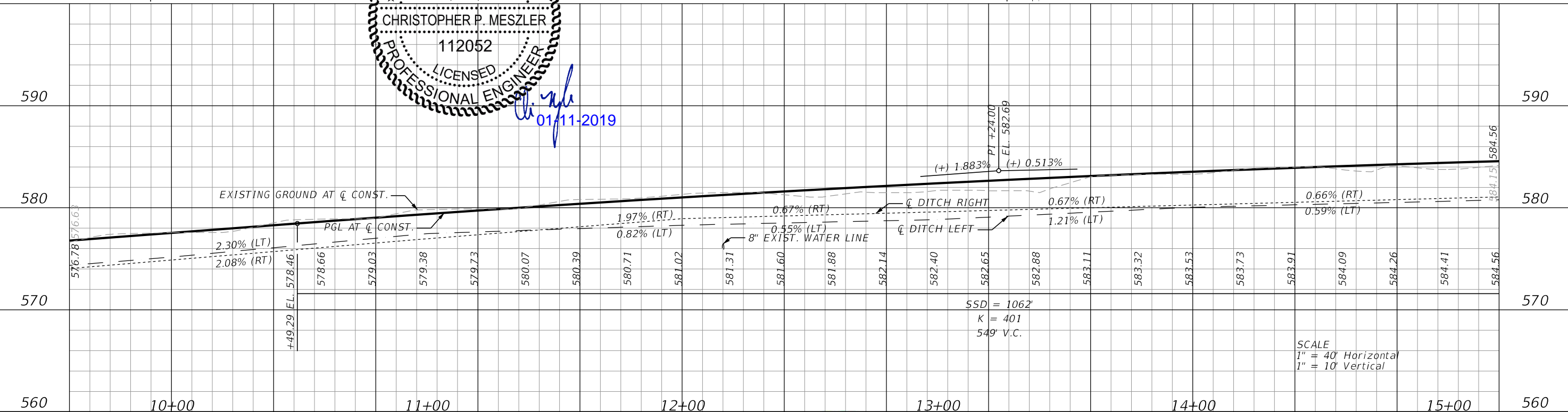
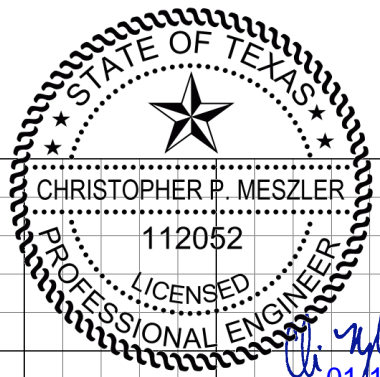
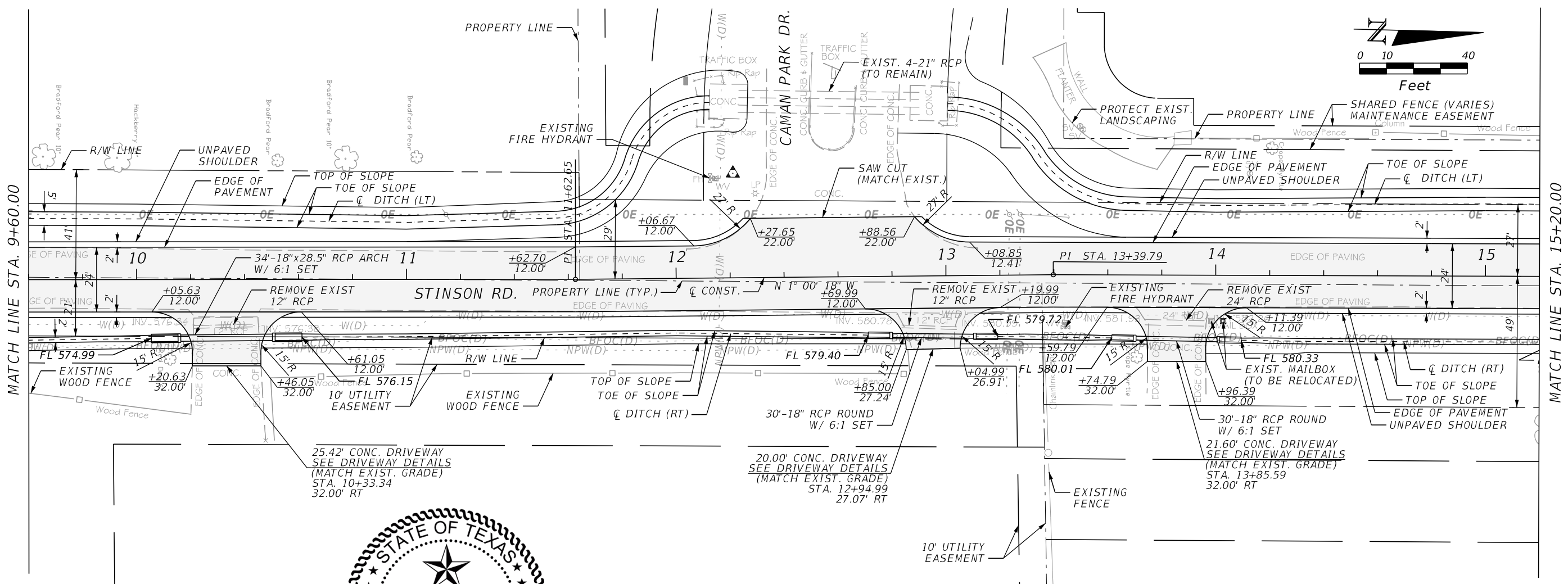
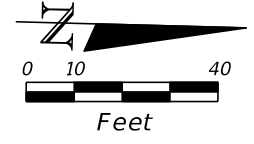


STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

PLAN & PROFILE

SHEET NO.
 13

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-TEST
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL



PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:15 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\PLANRD03.DGN

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 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

PLAN & PROFILE

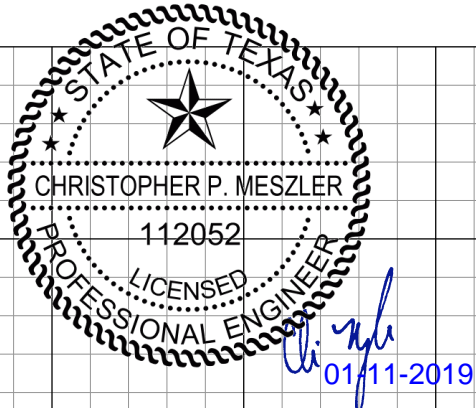
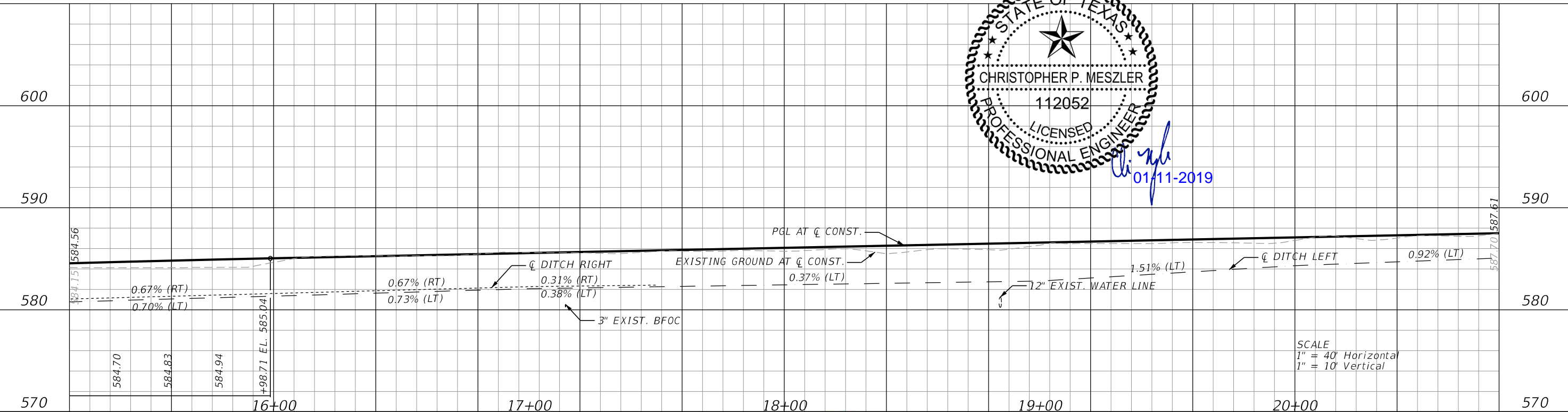
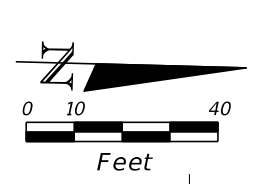
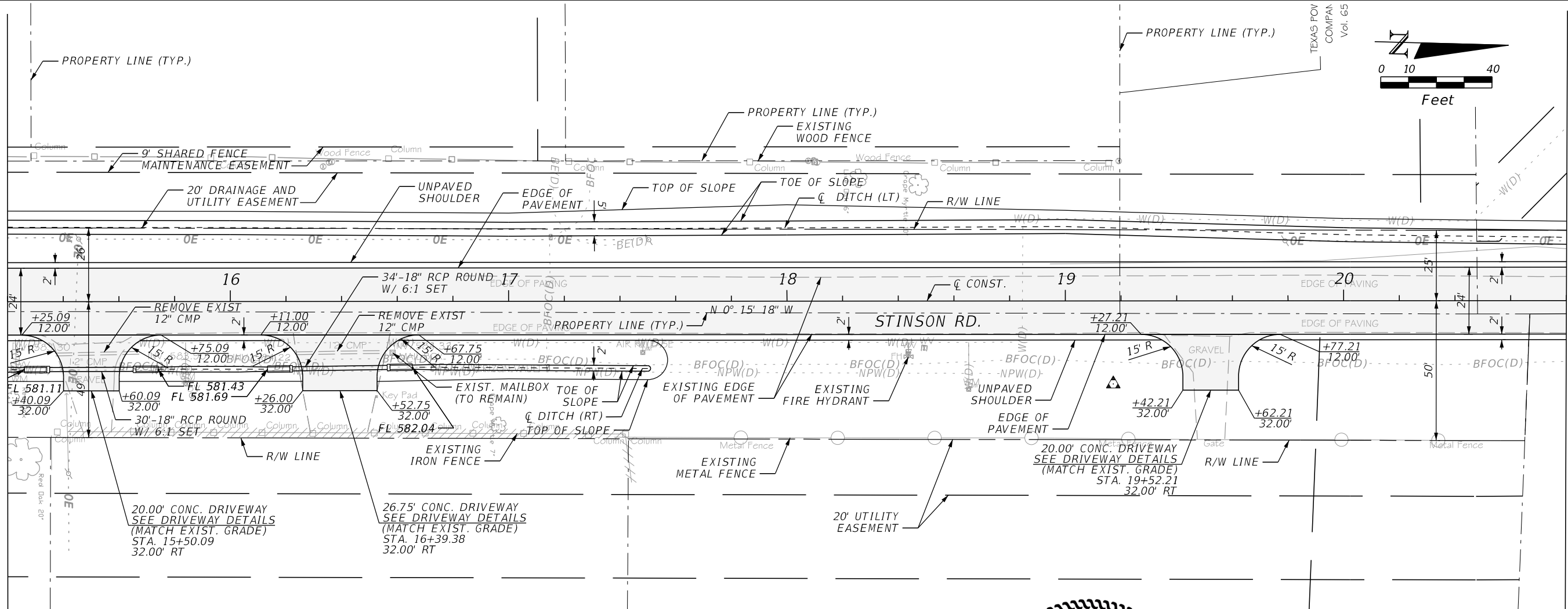
SHEET NO.
 14

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL

PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:16 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\PLANRD04.DGN

MATCH LINE STA. 15+20.00

MATCH LINE STA. 20+80.00



| DATE | REVISIONS DESCRIPTION |
|------|-----------------------|
| | |



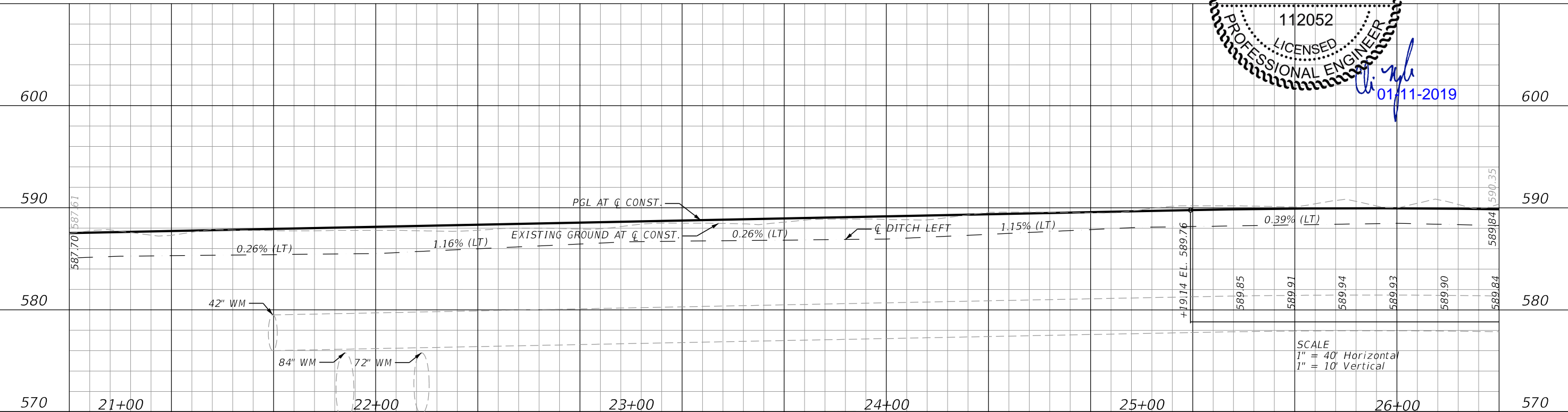
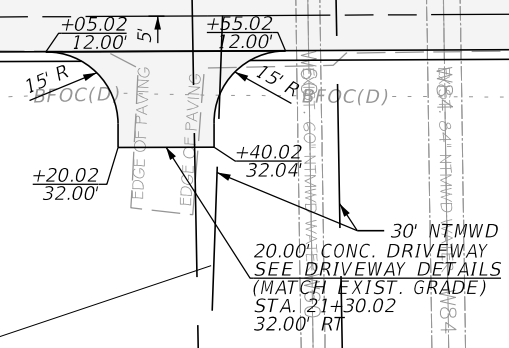
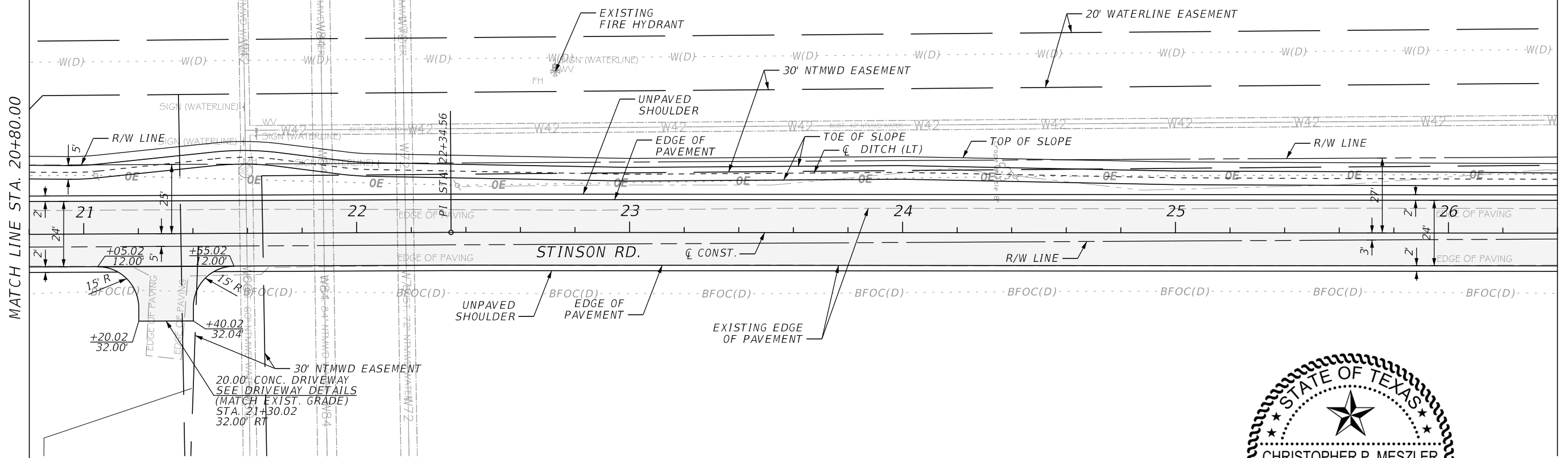
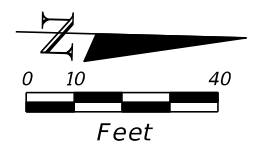
CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243

STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

PLAN & PROFILE

SHEET NO.
 15

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL



SCALE
1" = 40' Horizontal
1" = 10' Vertical

PLOTTED BY: hrcmenteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:17 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\PLANRD05.DGN

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 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243

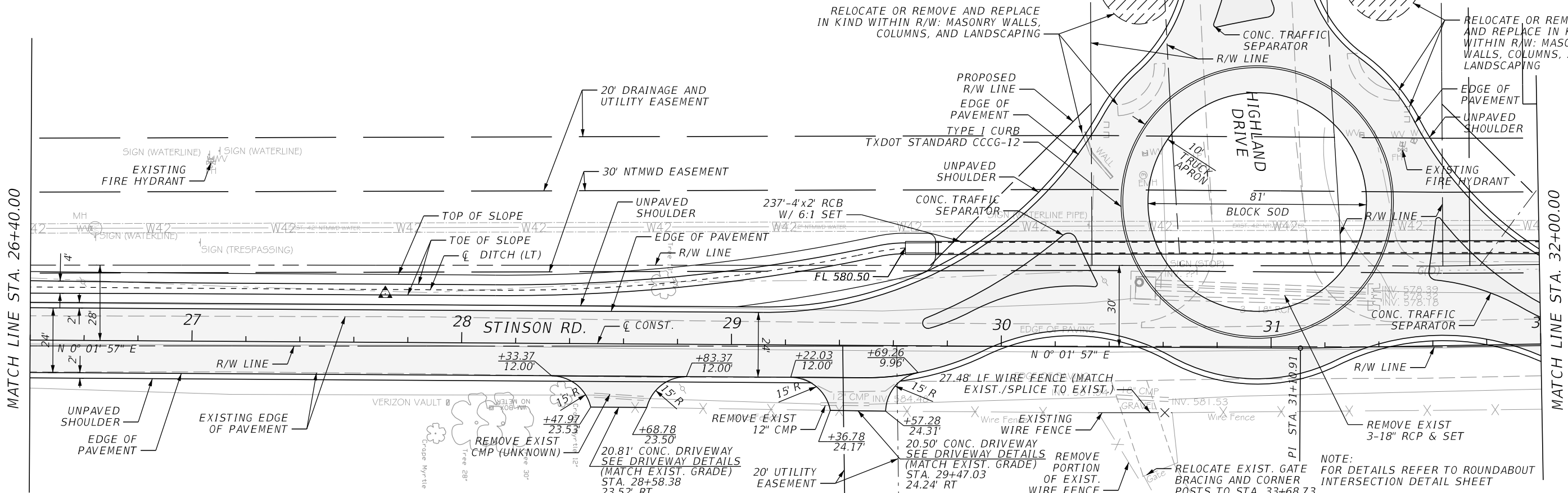
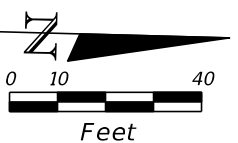


STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

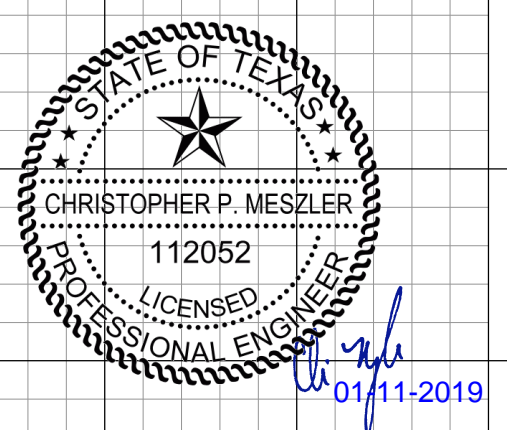
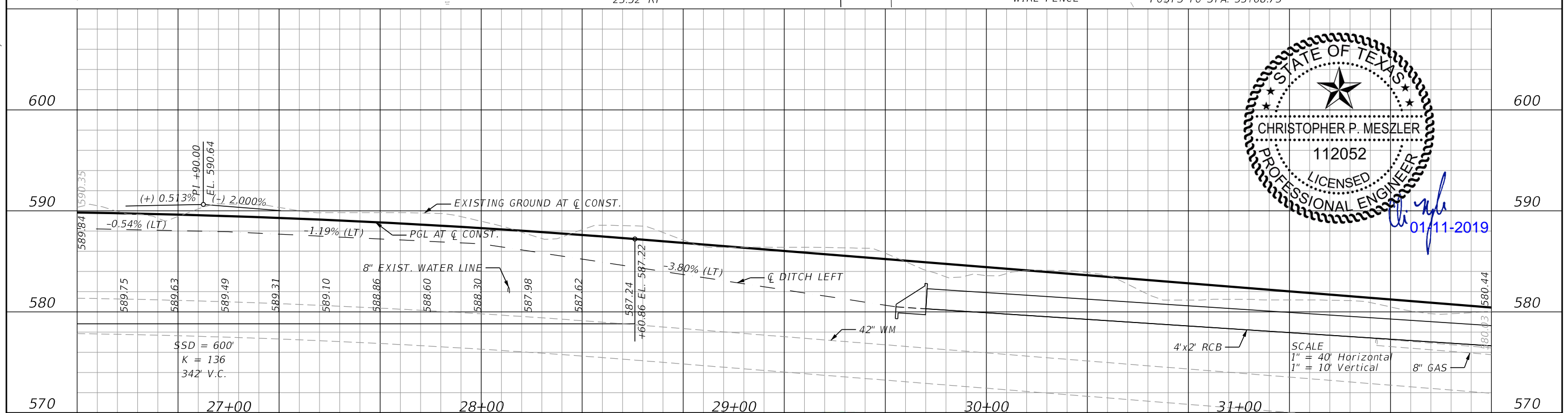
PLAN & PROFILE

SHEET NO.
 16

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 1-800-DIG-1155



PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:17 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\PLANRD06.DGN



| REVISIONS | |
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| DATE | DESCRIPTION |
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CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243

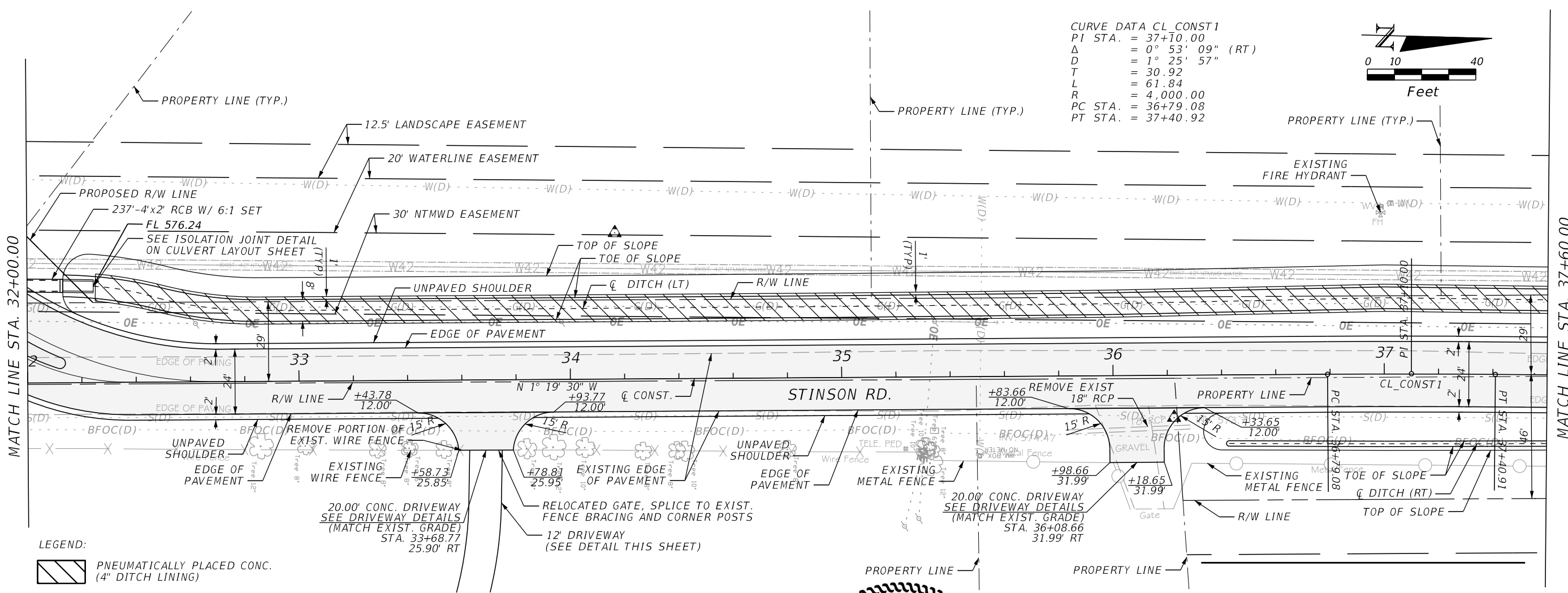
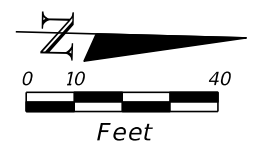
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

PLAN & PROFILE

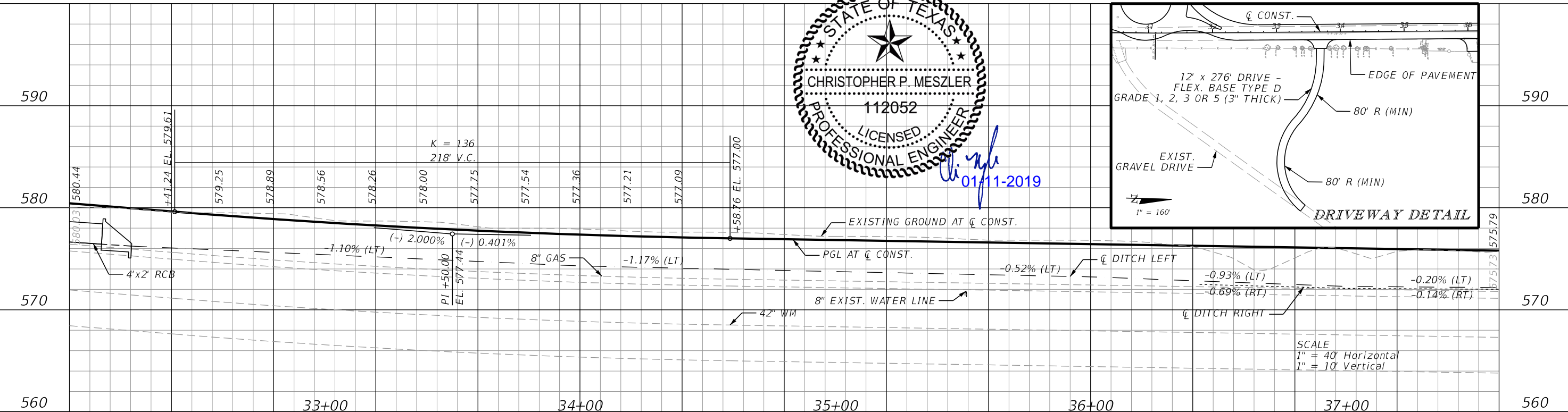
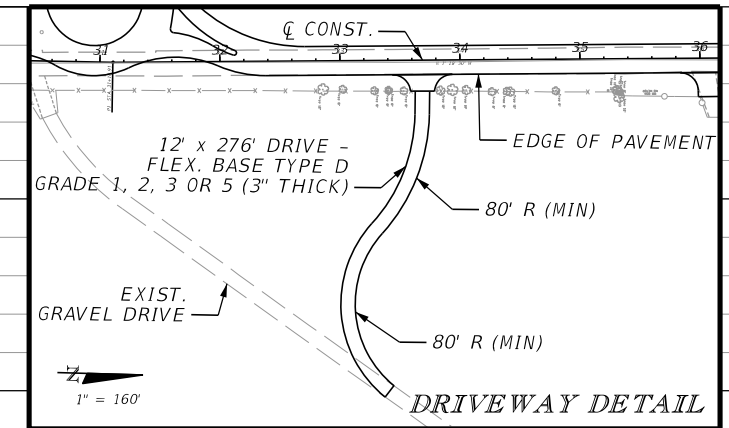
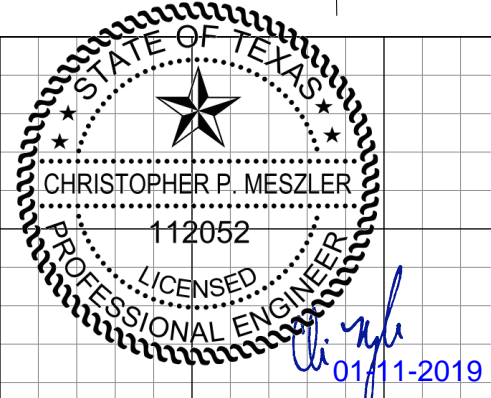
SHEET NO.
 17

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL

CURVE DATA CL_CONST1
 PI STA. = 37+10.00
 Δ = 0° 53' 09" (RT)
 D = 1° 25' 57"
 T = 30.92
 L = 61.84
 R = 4,000.00
 PC STA. = 36+79.08
 PT STA. = 37+40.92



LEGEND:
 PNEUMATICALLY PLACED CONC. (4" DITCH LINING)



PLOTTED BY: hremeteria 1/11/2019
 PLOT DATE: 1/11/2019 12:19:19 PM
 LAST SAVED: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\PLANRD07.DGN
 LOCATION:

| DATE | REVISIONS DESCRIPTION |
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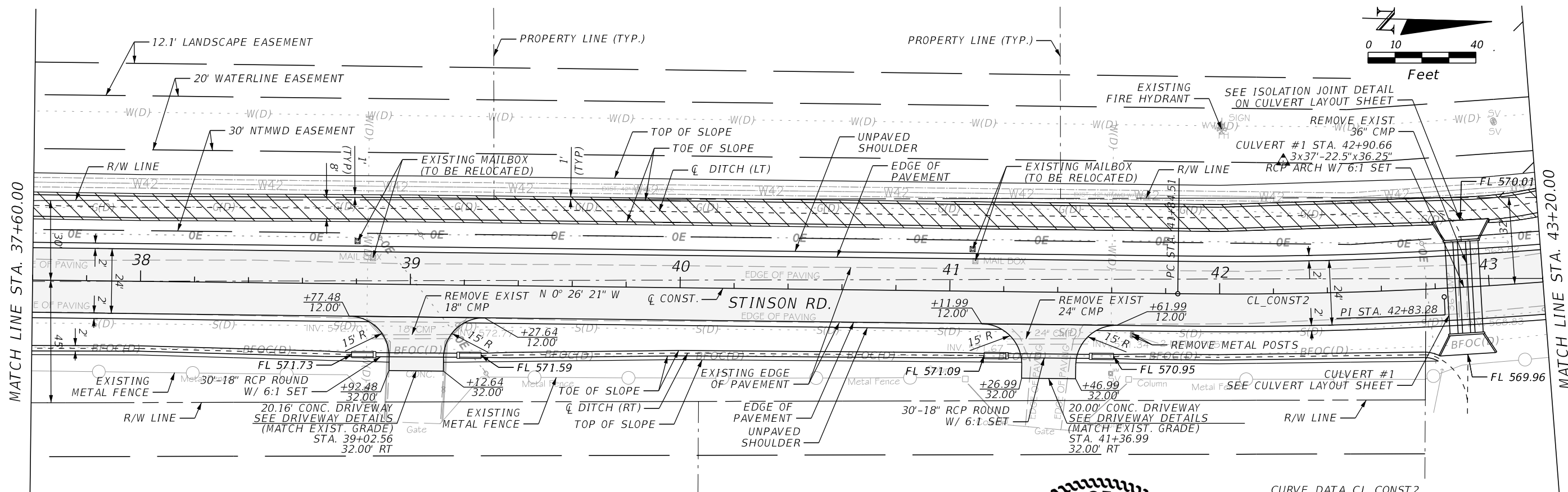
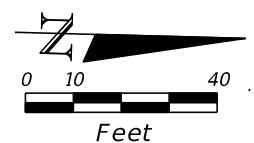
CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243

STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

PLAN & PROFILE

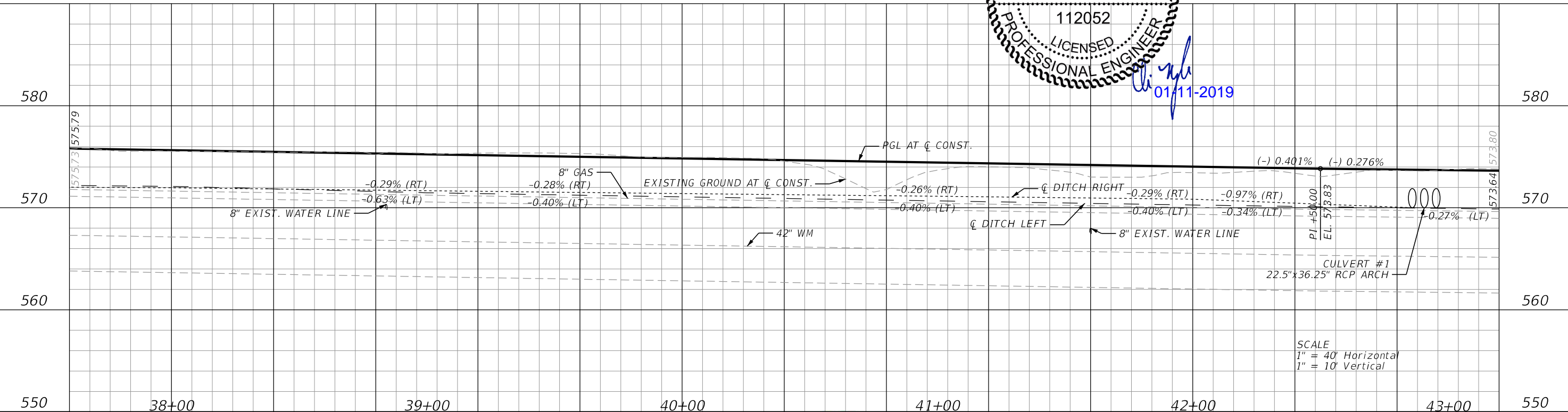
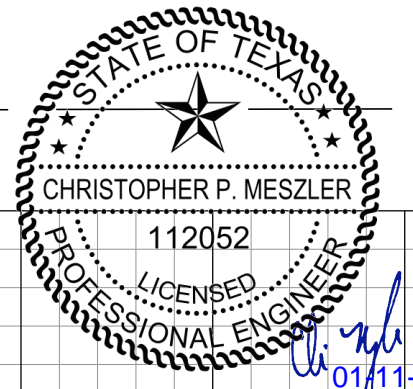
SHEET NO.
 18

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS
 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL



CURVE DATA CL CONST2
 PI STA. = 42+83.28
 Δ = 7° 23' 47" (LT)
 D = 3° 44' 59"
 T = 98.76
 L = 197.25
 R = 1,528.00
 PC STA. = 41+84.52
 PT STA. = 43+81.77

LEGEND:
 PNEUMATICALLY PLACED CONC. (4" DITCH LINING)



SCALE
 1" = 40' Horizontal
 1" = 10' Vertical

PLOTTED BY: hremeteria 1/11/2019
 PLOT DATE: 1/11/2019 12:19:20 PM
 LAST SAVED: C:\Transfer\18-112 Stinson Road\18-112 Stinson Plan Set\Roadway\PLANRD08.DGN
 LOCATION:

| DATE | REVISIONS DESCRIPTION |
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 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243

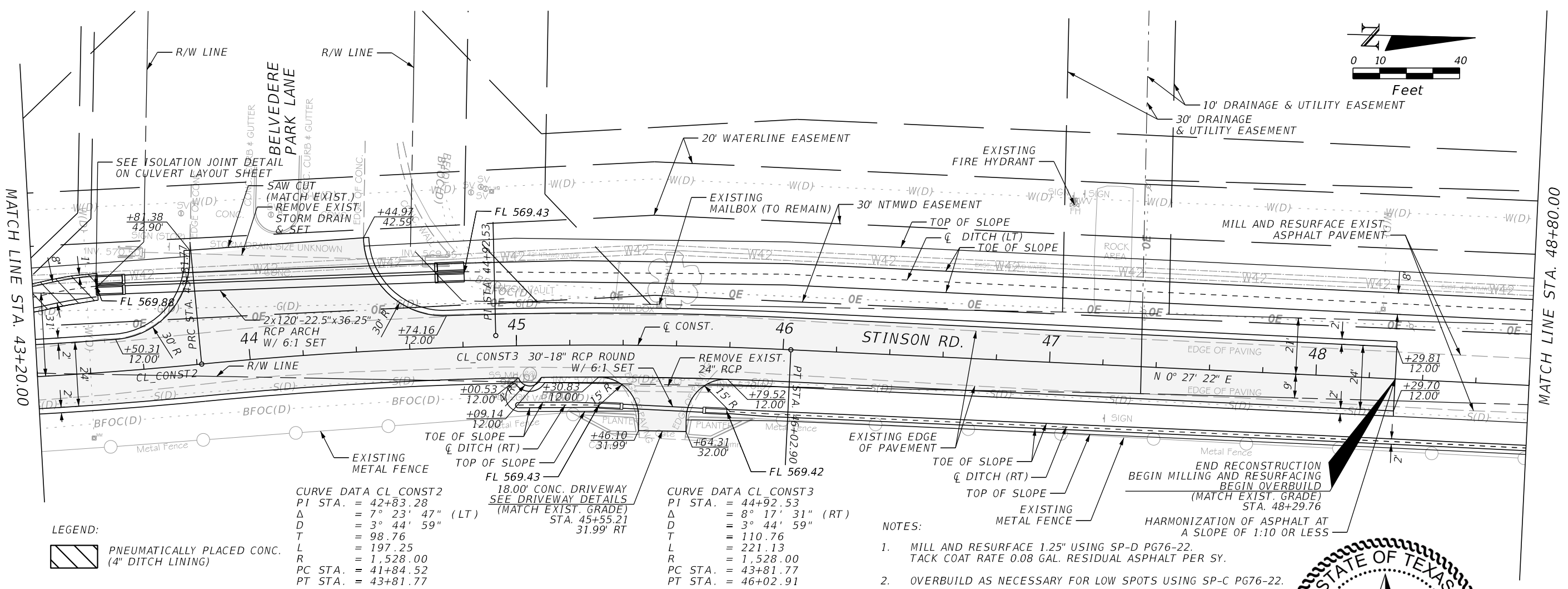
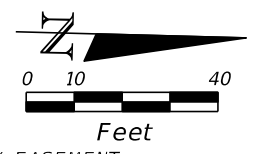


STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

PLAN & PROFILE

SHEET NO.
 19

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL



LEGEND:



CURVE DATA CL CONST 2
 PI STA. = 42+83.28
 Δ = 7° 23' 47" (LT)
 D = 3° 44' 59"
 T = 98.76
 L = 197.25
 R = 1,528.00
 PC STA. = 41+84.52
 PT STA. = 43+81.77

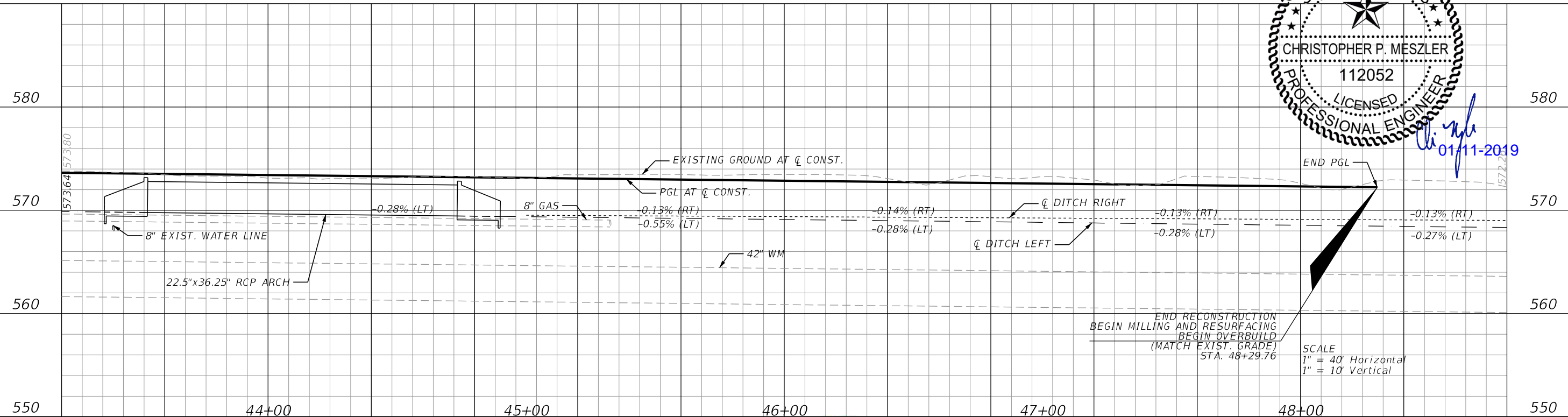
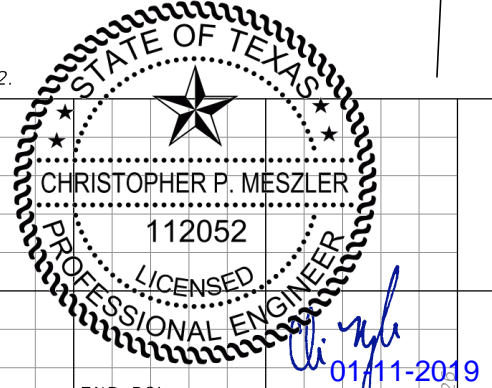
18.00' CONC. DRIVEWAY
 SEE DRIVEWAY DETAILS
 (MATCH EXIST. GRADE)
 STA. 45+55.21
 31.99' RT

CURVE DATA CL CONST 3
 PI STA. = 44+92.53
 Δ = 8° 17' 31" (RT)
 D = 3° 44' 59"
 T = 110.76
 L = 221.13
 R = 1,528.00
 PC STA. = 43+81.77
 PT STA. = 46+02.91

NOTES:

- MILL AND RESURFACE 1.25" USING SP-D PG76-22. TACK COAT RATE 0.08 GAL. RESIDUAL ASPHALT PER SY.
- OVERBUILD AS NECESSARY FOR LOW SPOTS USING SP-C PG76-22.

END RECONSTRUCTION
 BEGIN MILLING AND RESURFACING
 BEGIN OVERBUILD
 (MATCH EXIST. GRADE)
 STA. 48+29.76
 HARMONIZATION OF ASPHALT AT
 A SLOPE OF 1:10 OR LESS



| DATE | REVISIONS DESCRIPTION |
|------|-----------------------|
| | |



CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
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 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TPBE REG. F-15243



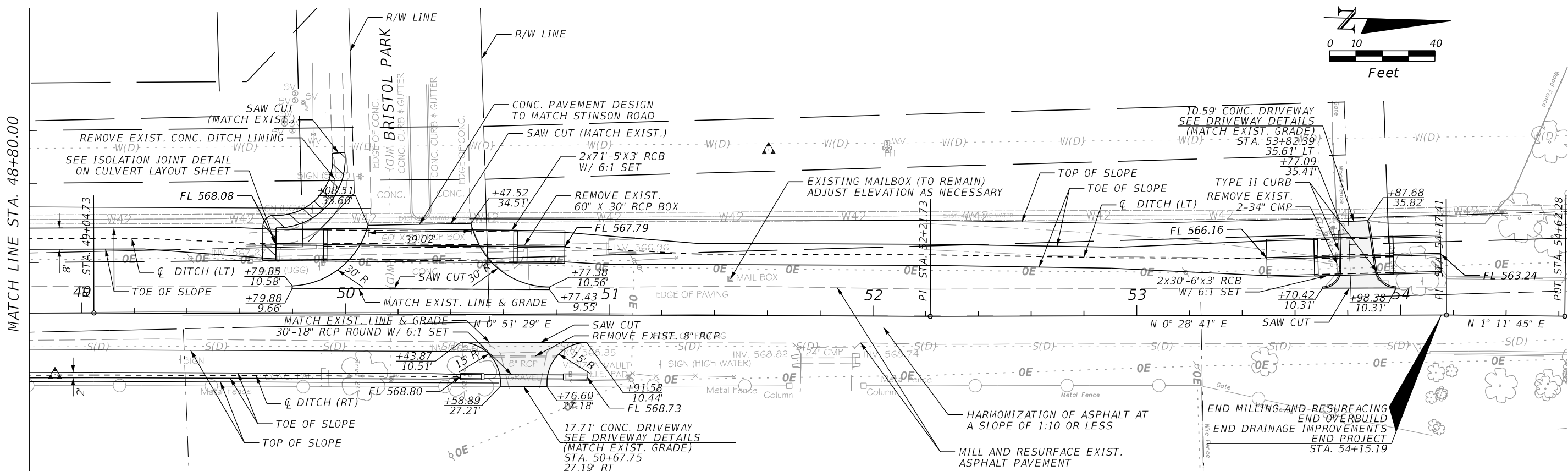
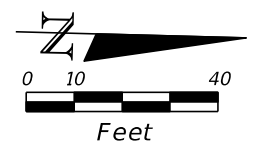
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

PLAN & PROFILE

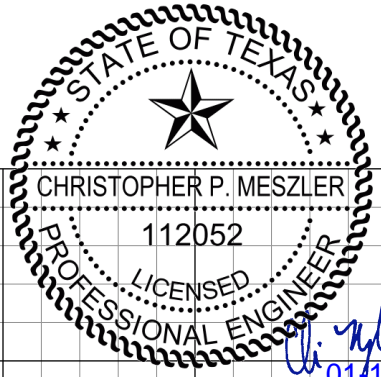
SHEET NO.
20

PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:21 PM
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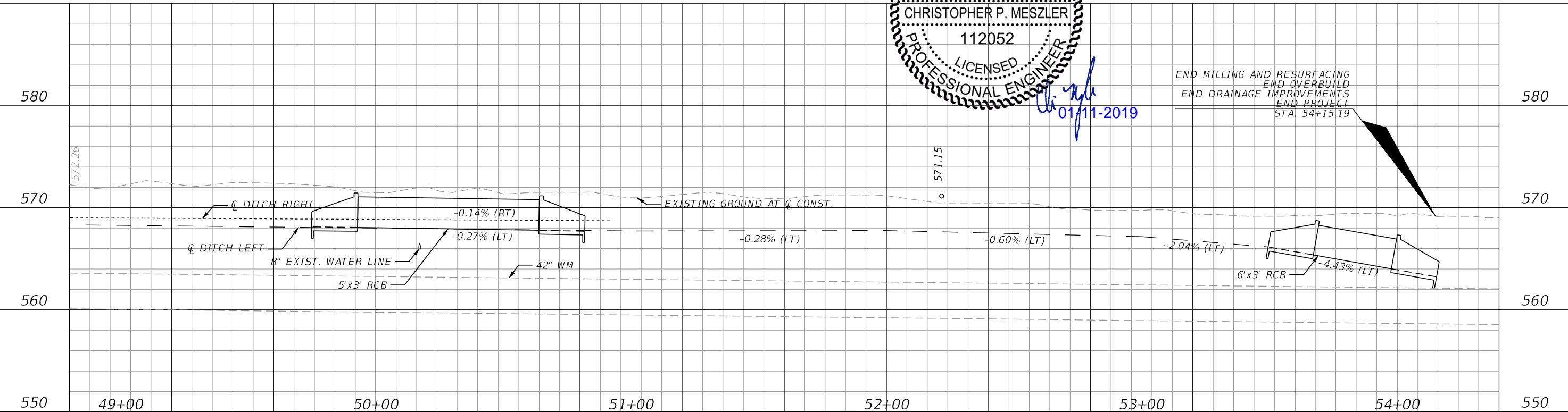
CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1155



- NOTES:
- MILL AND RESURFACE 1.25" USING SP-D PG76-22. TACK COAT RATE 0.08 GAL. RESIDUAL ASPHALT PER SY.
 - OVERBUILD AS NECESSARY FOR LOW SPOTS USING SP-C PG76-22.



END MILLING AND RESURFACING
 END OVERBUILD
 END DRAINAGE IMPROVEMENTS
 END PROJECT
 STA. 54+15.19



PLOTTED BY: hremerteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:22 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18-112 Stinson Plan Set\Roadway\PLANRD10.DGN

| REVISIONS | |
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 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243

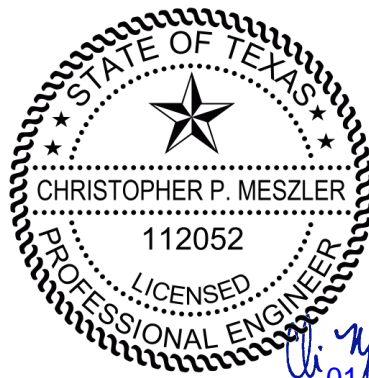


STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

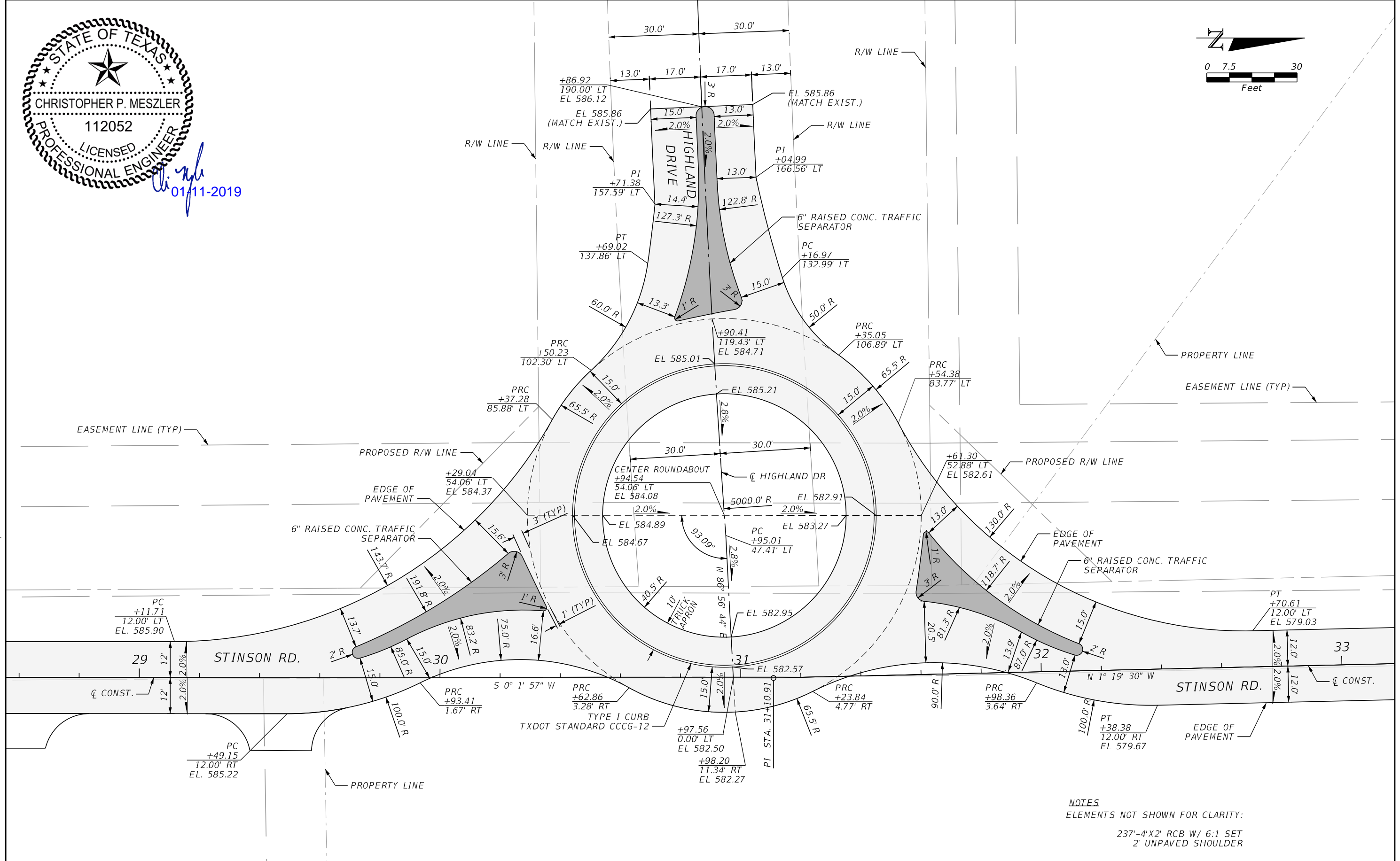
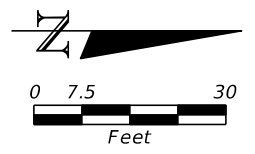
PLAN & PROFILE

SHEET NO.
 21

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1155
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL



li
01/11-2019



NOTES
ELEMENTS NOT SHOWN FOR CLARITY:
237'-4'X2' RCB W/ 6:1 SET
2' UNPAVED SHOULDER

PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:22 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\INTDRD01.DGN

| DATE | REVISIONS DESCRIPTION |
|------|-----------------------|
| | |



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 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TPBE REG. F-15243

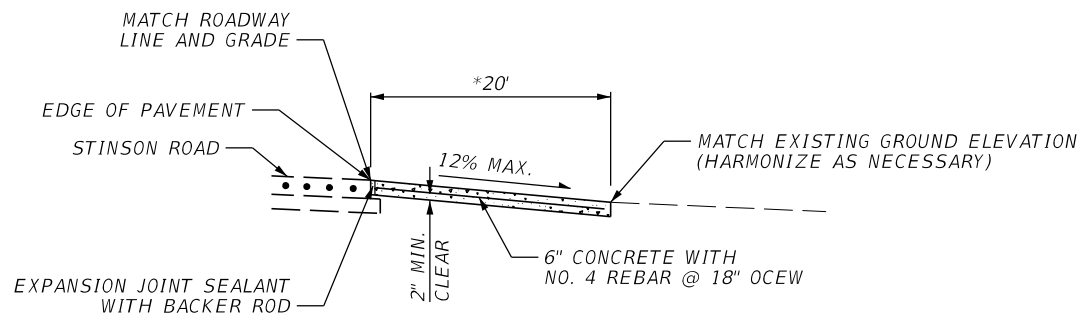


STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

ROUNDABOUT
 INTERSECTION DETAIL

SHEET NO.
 22

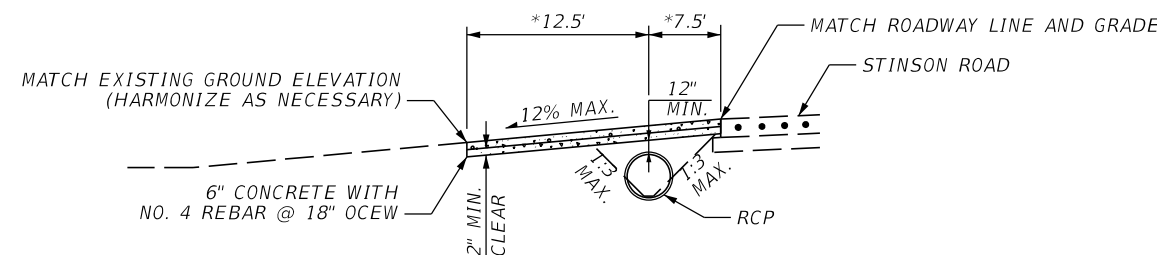
CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL



* DIMENSION MAY VARY AS SHOWN IN PLANS

DRIVEWAY TYPICAL PROFILE

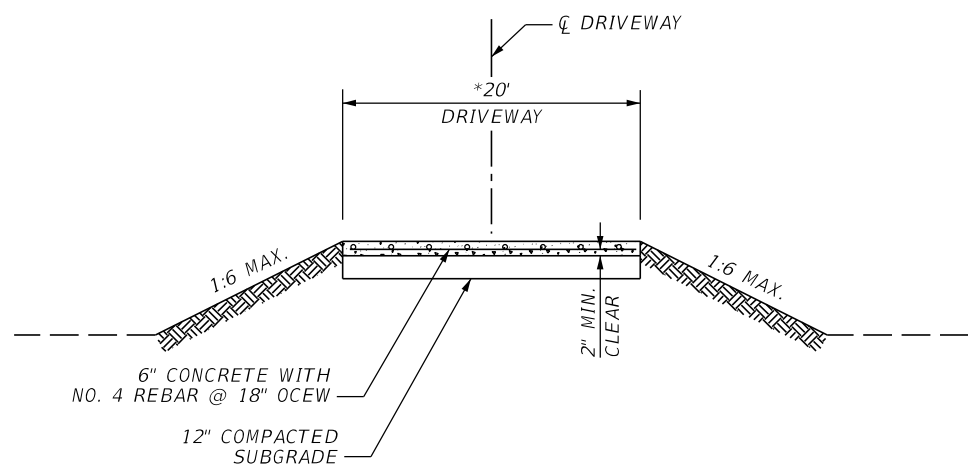
(WITHOUT SIDEDRAIN)



* DIMENSION MAY VARY AS SHOWN IN PLANS

DRIVEWAY TYPICAL PROFILE

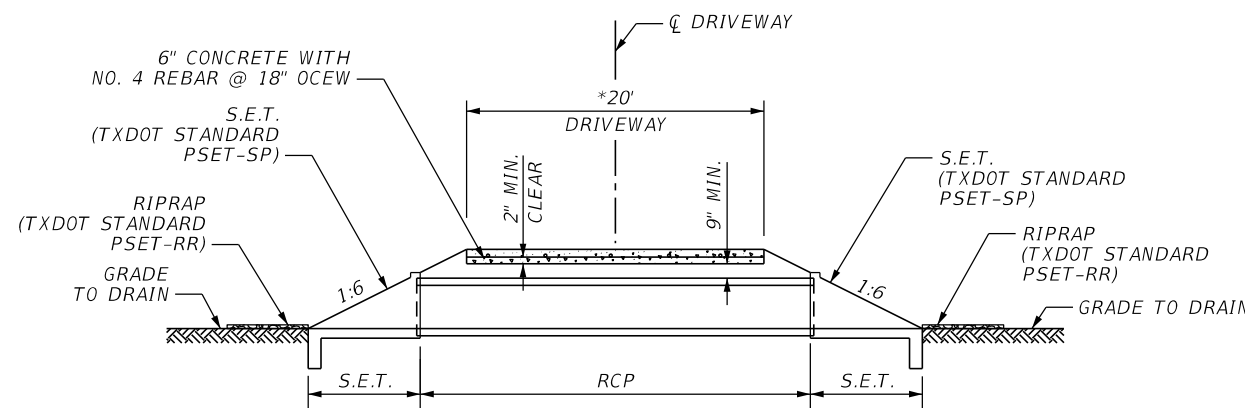
(WITH SIDEDRAIN)



* DIMENSION MAY VARY AS SHOWN IN PLANS

DRIVEWAY TYPICAL SECTION

(WITHOUT SIDEDRAIN)



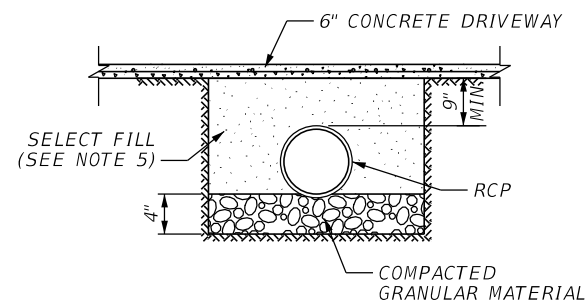
* DIMENSION MAY VARY AS SHOWN IN PLANS

DRIVEWAY TYPICAL SECTION

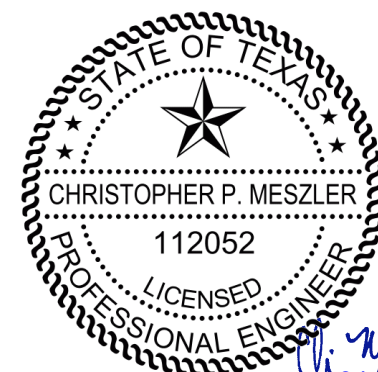
(WITH SIDEDRAIN)

NOTES:

1. DRIVEWAY MAY BE EXTENDED BEYOND RIGHT OF WAY LINE AS REQUIRED TO MEET EXISTING GRADE. COORDINATE WITH PROPERTY OWNER AND CITY.
2. EXACT LOCATIONS, DIMENSIONS, AND TYPE MAY BE FIELD MODIFIED WITH PRIOR APPROVAL FROM THE CITY.
3. SIDE DRAINS TO BE INSTALLED WHERE ROADSIDE DITCH DRAINAGE IS PRESENT, AS INDICATED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
4. SIDE DRAINS TO BE INSTALLED WITH A MINIMUM OF 9" COVER, NOT INCLUDING CONCRETE DRIVEWAY THICKNESS.
5. PLACE BACKFILL EQUALLY ALONG BOTH SIDES OF THE PIPE IN UNIFORM LIFTS (8 IN. MAX.). COMPACT EACH LIFT MECHANICALLY. THOROUGHLY COMPACT MATERIALS PLACED UNDER THE HAUNCHES OF THE PIPE TO PREVENT DAMAGE OR DISPLACEMENT OF THE PIPE. CONTINUE TO PLACE BACKFILL IN THIS MANNER TO THE TOP-OF-PIPE ELEVATION. PLACE AND COMPACT BACKFILL ABOVE THE TOP OF THE PIPE IN UNIFORM LIFTS (8 IN. MAX.).
6. ALL SUBGRADE COMPACTION UNDER PAVEMENT SHALL BE 98% STANDARD PROCTOR DENSITY AT +2% OF OPTIMUM MOISTURE.
7. FLOWABLE FILL SHALL BE PROVIDED IN LOCATIONS WHERE COMPACTION CANNOT BE ACHIEVED, SUCH AS BETWEEN HAUNCHES OF ADJACENT PIPES.



BACKFILL AND BEDDING DETAIL



TEXAS ONE CALL SYSTEM
 1-800-DIG-1-TESS
 CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL

PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:23 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\SPDTRD01.DGN

| DATE | REVISIONS DESCRIPTION |
|------|-----------------------|
| | |



CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243




STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

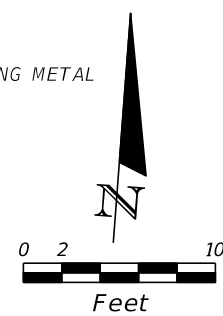
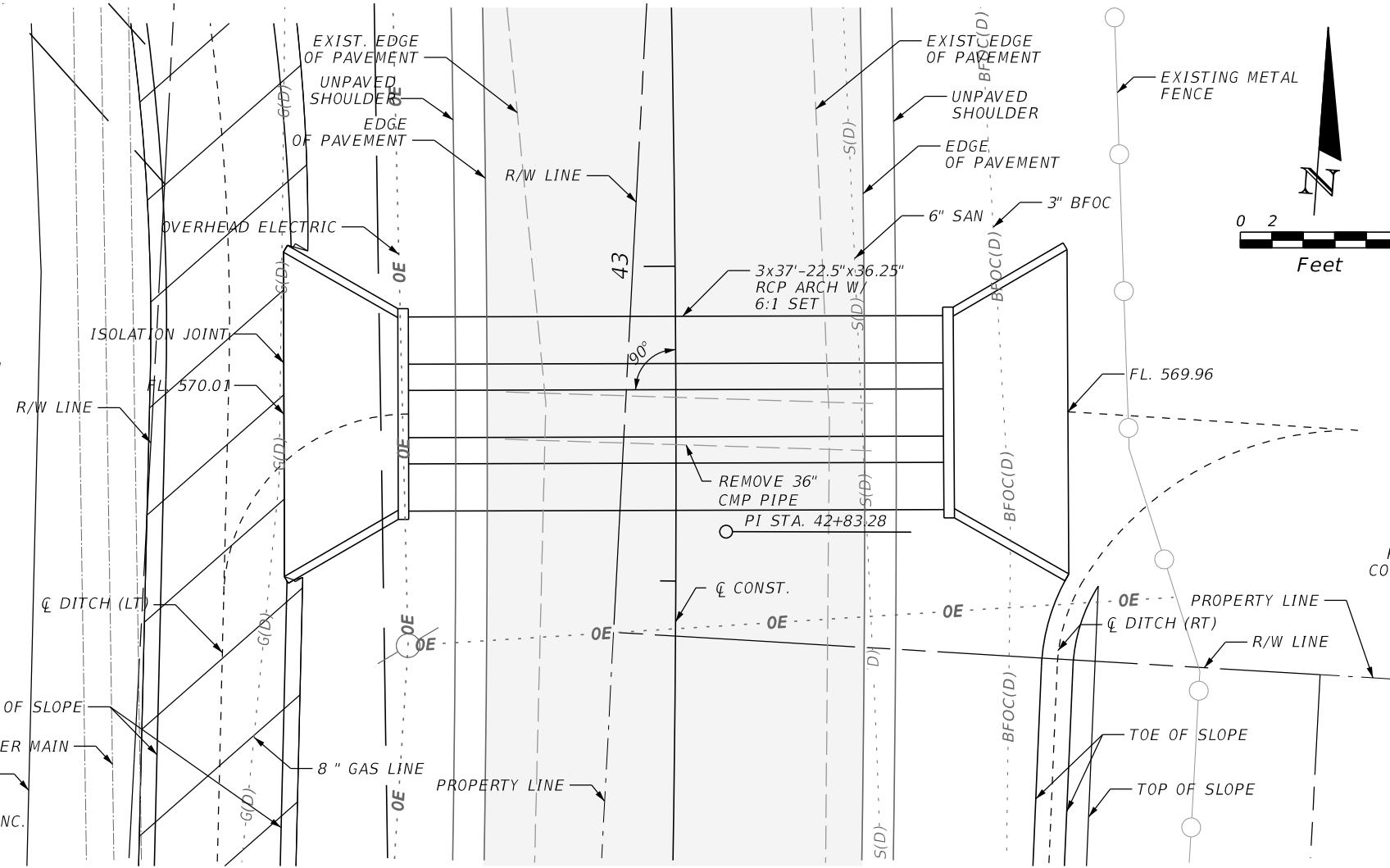
DRIVEWAY DETAILS

SHEET NO.
 23

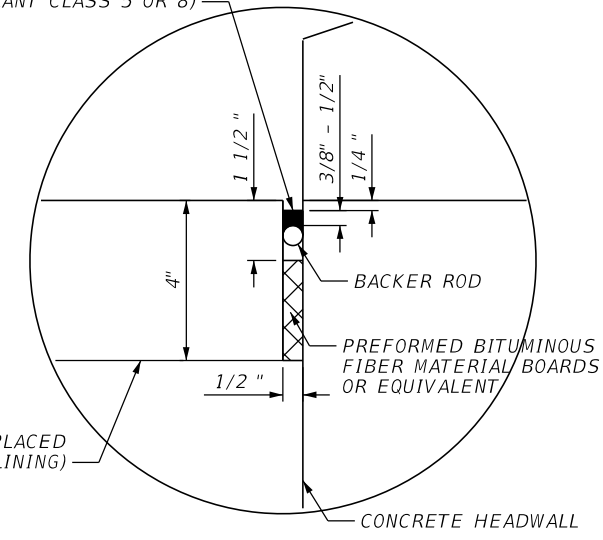
NOTES:

- 1) CONTRACTOR SHALL USE GRANULAR OR SELECT FILL BEHIND CULVERT HEADWALLS (NO SEPARATE PAYMENT).
- 2) CULVERT INSTALLATION PROCEDURE:
PLACE BACKFILL EQUALLY ALONG BOTH SIDES OF THE PIPE IN UNIFORM LIFTS (8 IN. MAX.)
COMPACT EACH LIFT MECHANICALLY. COMPACT MATERIALS PLACED UNDER THE HAUNCHES OF THE PIPE TO PREVENT DAMAGE OR DISPLACEMENT OF THE PIPE. CONTINUE TO PLACE BACKFILL IN THIS MANNER TO THE TOP-OF-PIPE ELEVATION. PLACE AND COMPACT BACKFILL ABOVE THE TOP OF THE PIPE IN UNIFORM LIFTS (8 IN. MAX.).
- 3) COMPACT ALL FILL AND EXCAVATIONS TO 98% PROCTOR DENSITY AT ±2% OF OPTIMUM MOISTURE.
- 4) FOR RCP SPECIFICATIONS SEE TXDOT ITEM 464. RCP SHALL BE CLASS III MINIMUM.
- 5) FOR HEADWALL DETAILS, SEE TXDOT STANDARD SETP-FW-A-0.

LEGEND:
 PNEUMATICALLY PLACED CONC. (DITCH LINING)



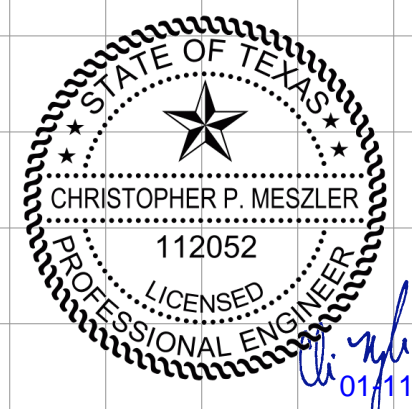
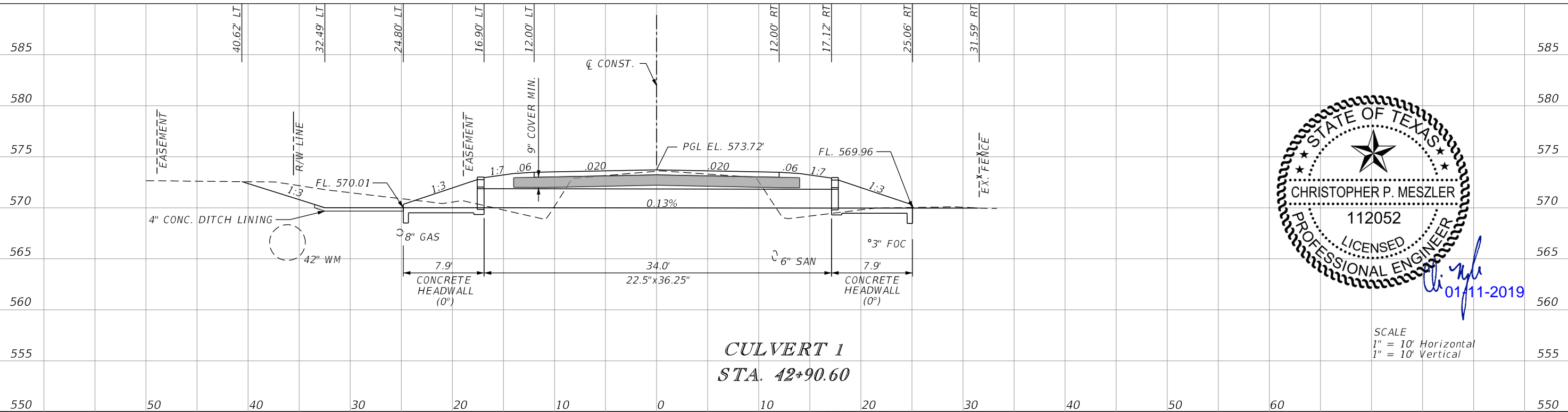
JOINT SEALING COMPOUND (USE SEALANT CLASS 5 OR 8)



ISOLATION JOINT DETAIL

NOTES:

1. ISOLATION JOINTS SHALL BE PLACED AT ALL LOCATIONS WHERE CONCRETE DITCH LINING ABUTS CONCRETE HEADWALLS.



SCALE
 1" = 10' Horizontal
 1" = 10' Vertical

CULVERT 1
 STA. 42+90.60

PLOTTED BY: hremeteria 1/11/2019
 PLOT DATE: 12:19:24 PM
 LAST SAVED: C:\Transfer\18-112 Stinson Road\18-112 Stinson Plan Set\drainage\DRPRRD02.DGN

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



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 TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

CULVERT LAYOUT

SHEET NO.
 24

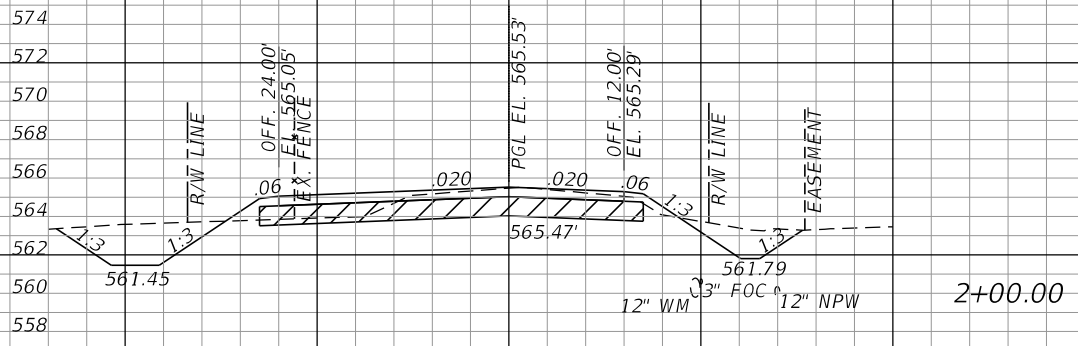
CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-TESS

Regular Exc. Embankment

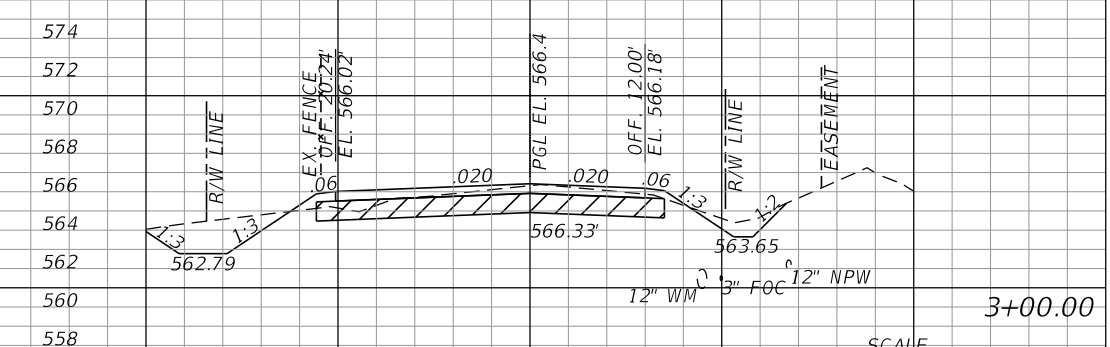
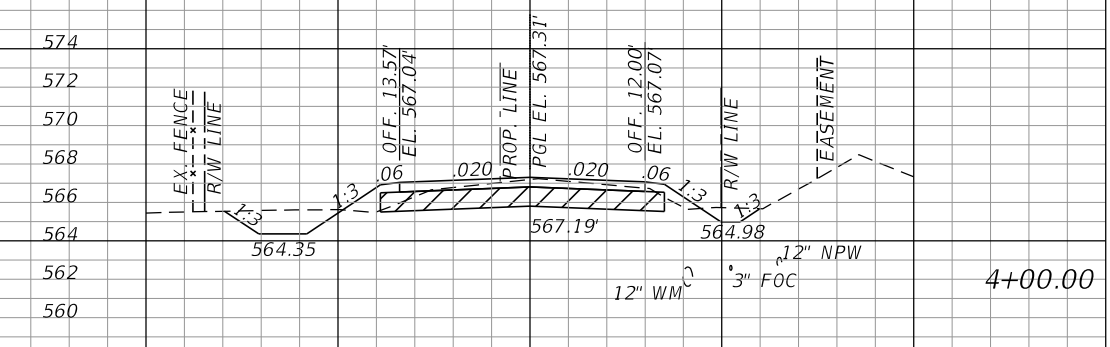
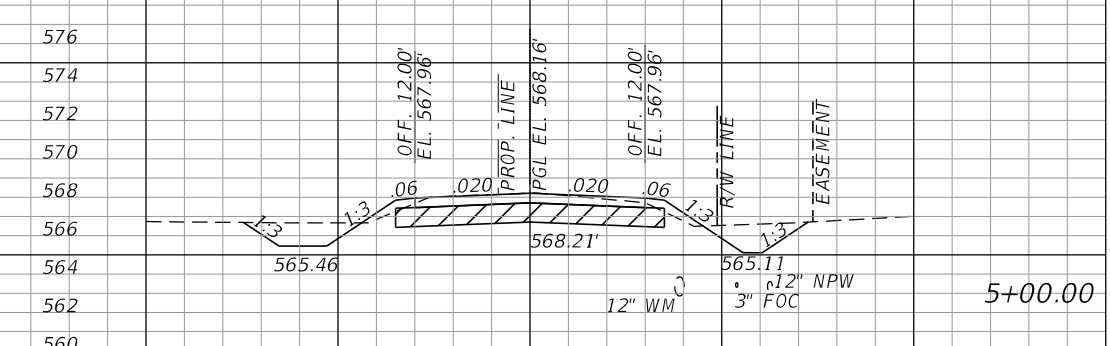
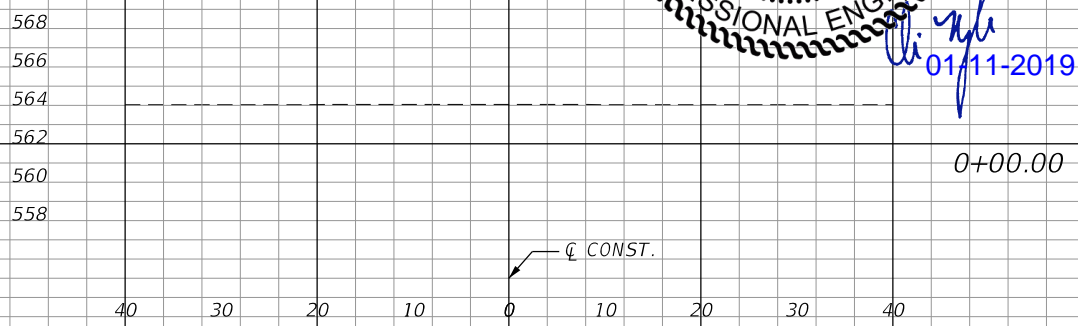
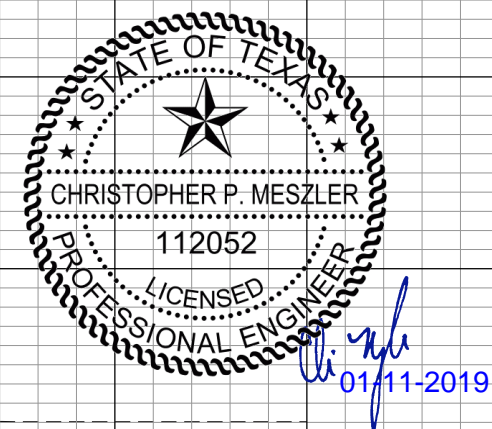
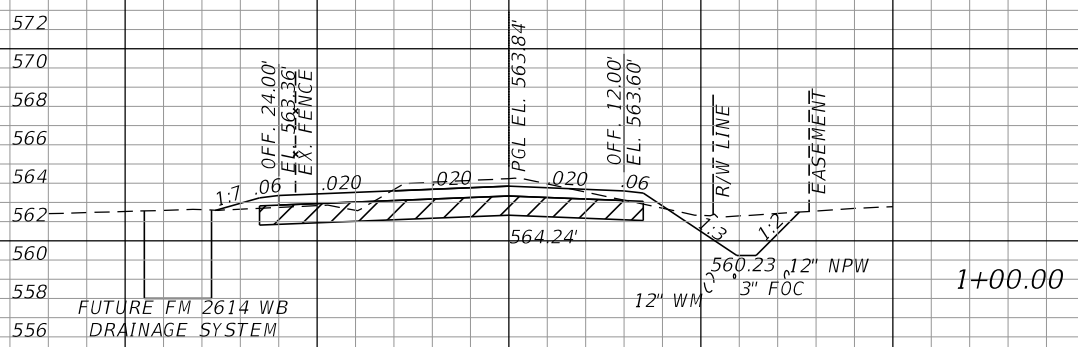
A V A V

Regular Exc. Embankment

A V A V



BEGIN PROJECT
 BEGIN RECONSTRUCTION
 BEGIN DRAINAGE IMPROVEMENTS
 STA. 1+00.73



SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

88.74

225.2

28.20

63.4

32.86

0

6.06

0

0

0

0

0

30.60

93.4

4.58

24.9

19.85

143.5

8.85

38.6

57.66

167.6

11.99

33.4

PLOTTED BY:
 PLOT DATE:
 LAST SAVED:
 LOCATION:

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
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 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243



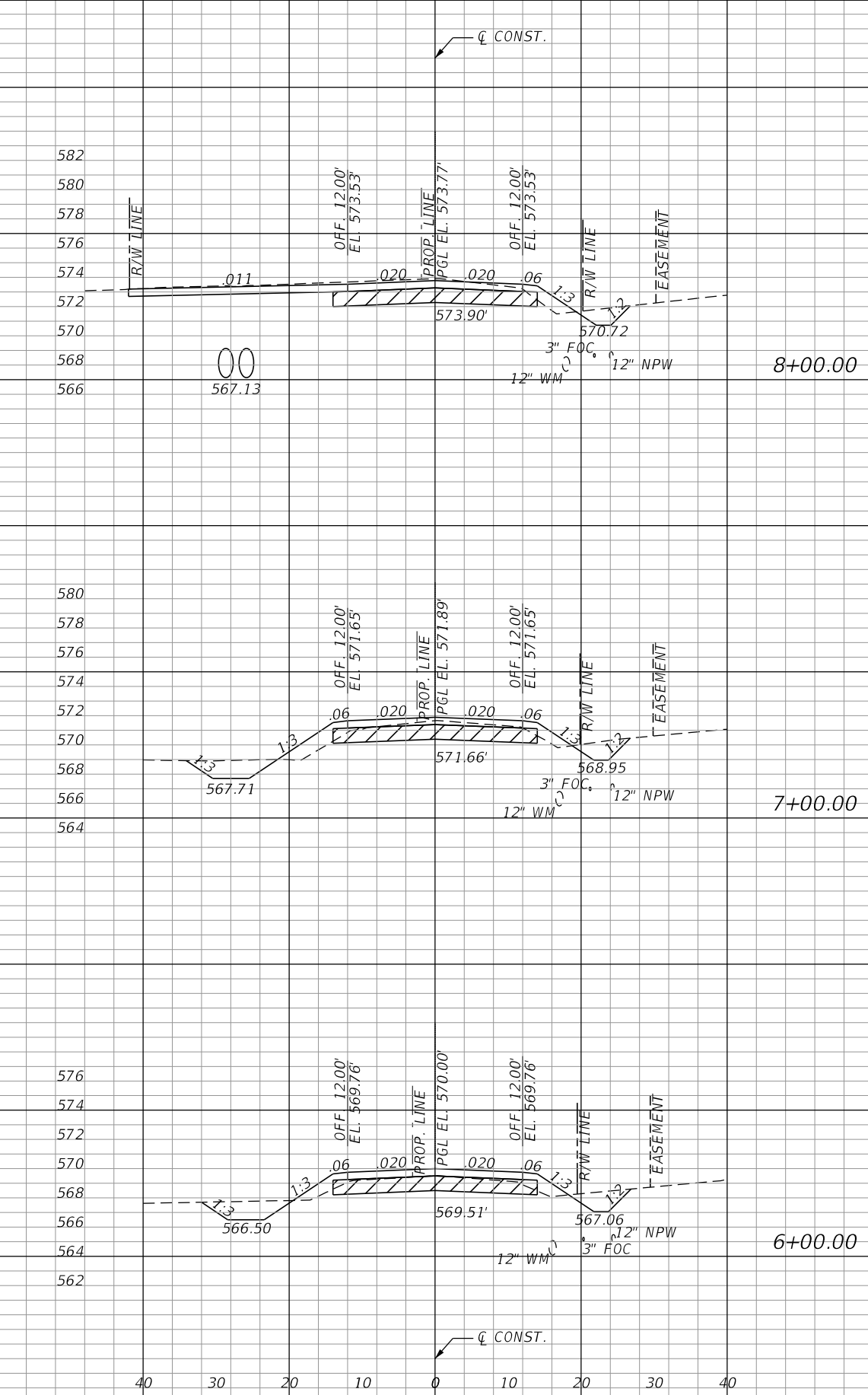
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

CROSS SECTIONS

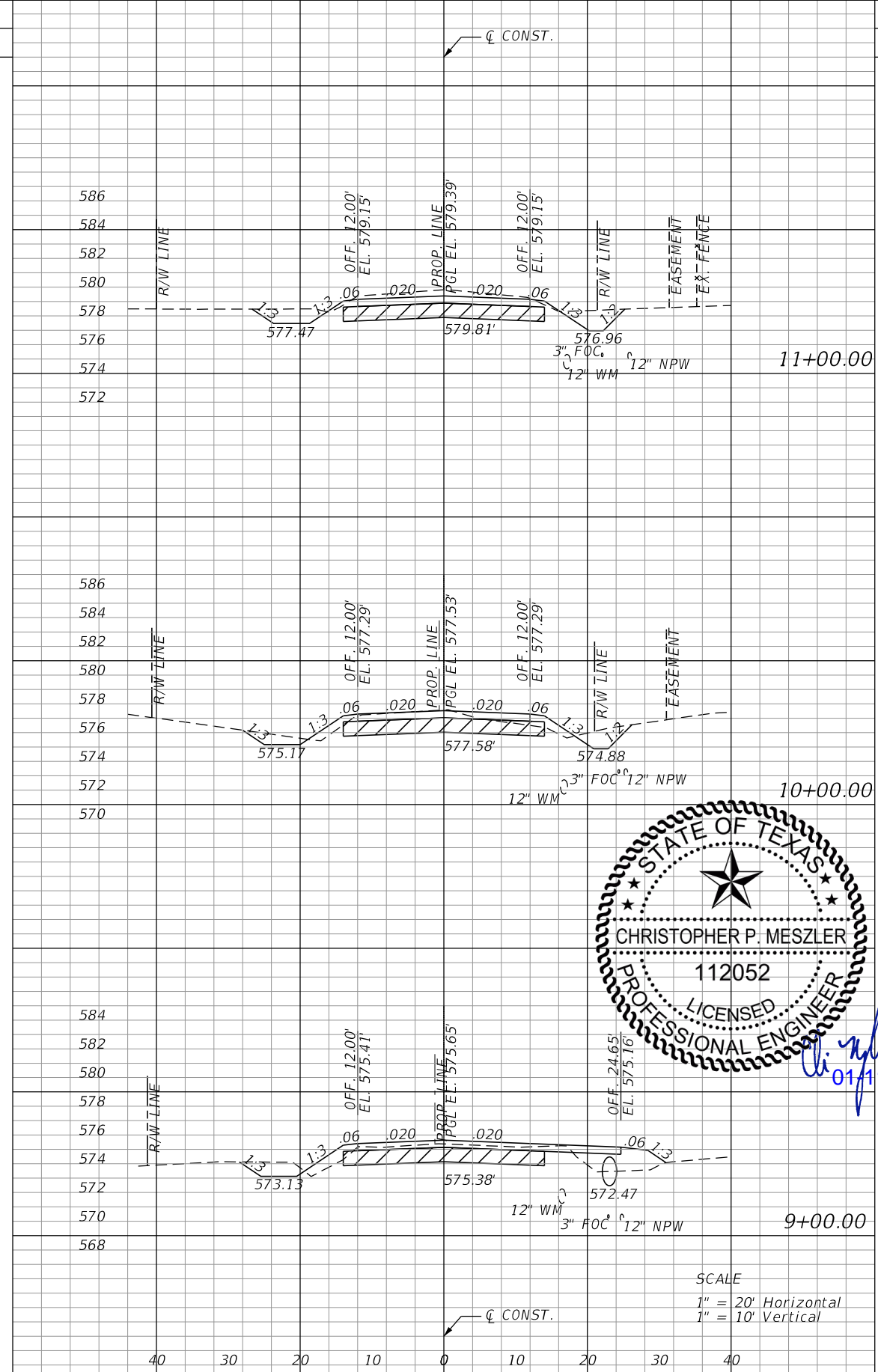
SHEET NO.
 25

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS

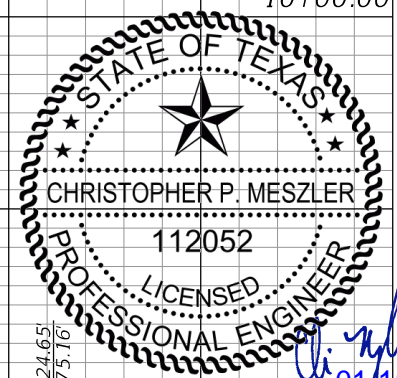
PLOTTED BY:
 PLOT DATE:
 LAST SAVED:
 LOCATION:



| Regular | | Exc. | | Embankment | |
|---------|-------|-------|---|------------|---|
| A | V | A | V | A | V |
| 35.49 | 103.6 | 5.39 | | 36 | |
| 20.45 | 71.7 | 14.05 | | 48.4 | |
| 18.26 | 90.5 | 12.07 | | 30.8 | |



| Regular | | Exc. | | Embankment | |
|---------|------|-------|---|------------|---|
| A | V | A | V | A | V |
| 35.10 | 99.4 | 1.14 | | 17.2 | |
| 18.59 | 60.7 | 8.17 | | 50.7 | |
| 14.19 | 92.0 | 19.23 | | 45.6 | |



SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



CHRISTOPHER P. MESZLER, P.E.
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 TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

CROSS SECTIONS

SHEET
 NO.
 26

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1555

PLOTTED BY:
PLOT DATE:
LAST SAVED:
LOCATION:

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



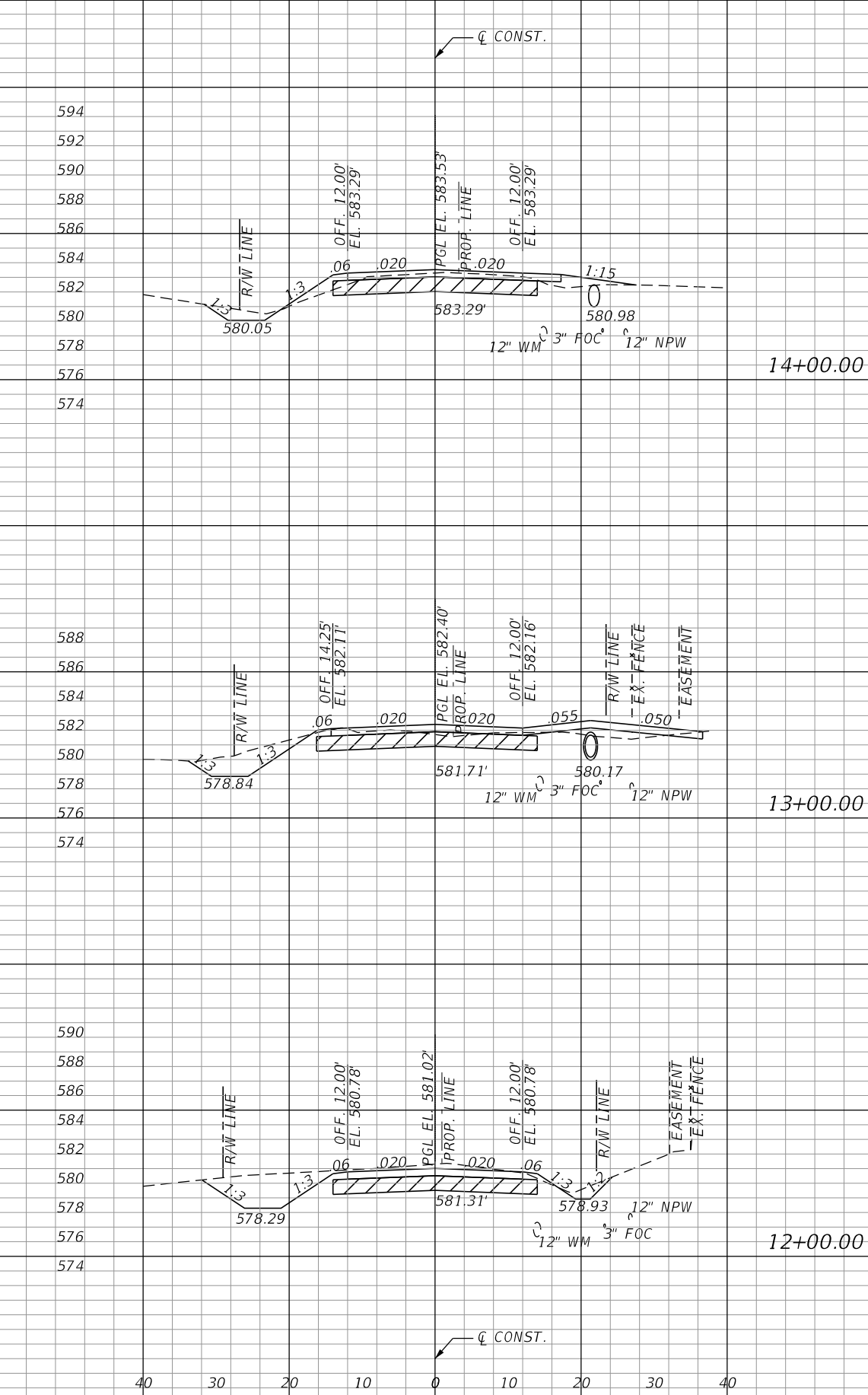
CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE #405
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-15243



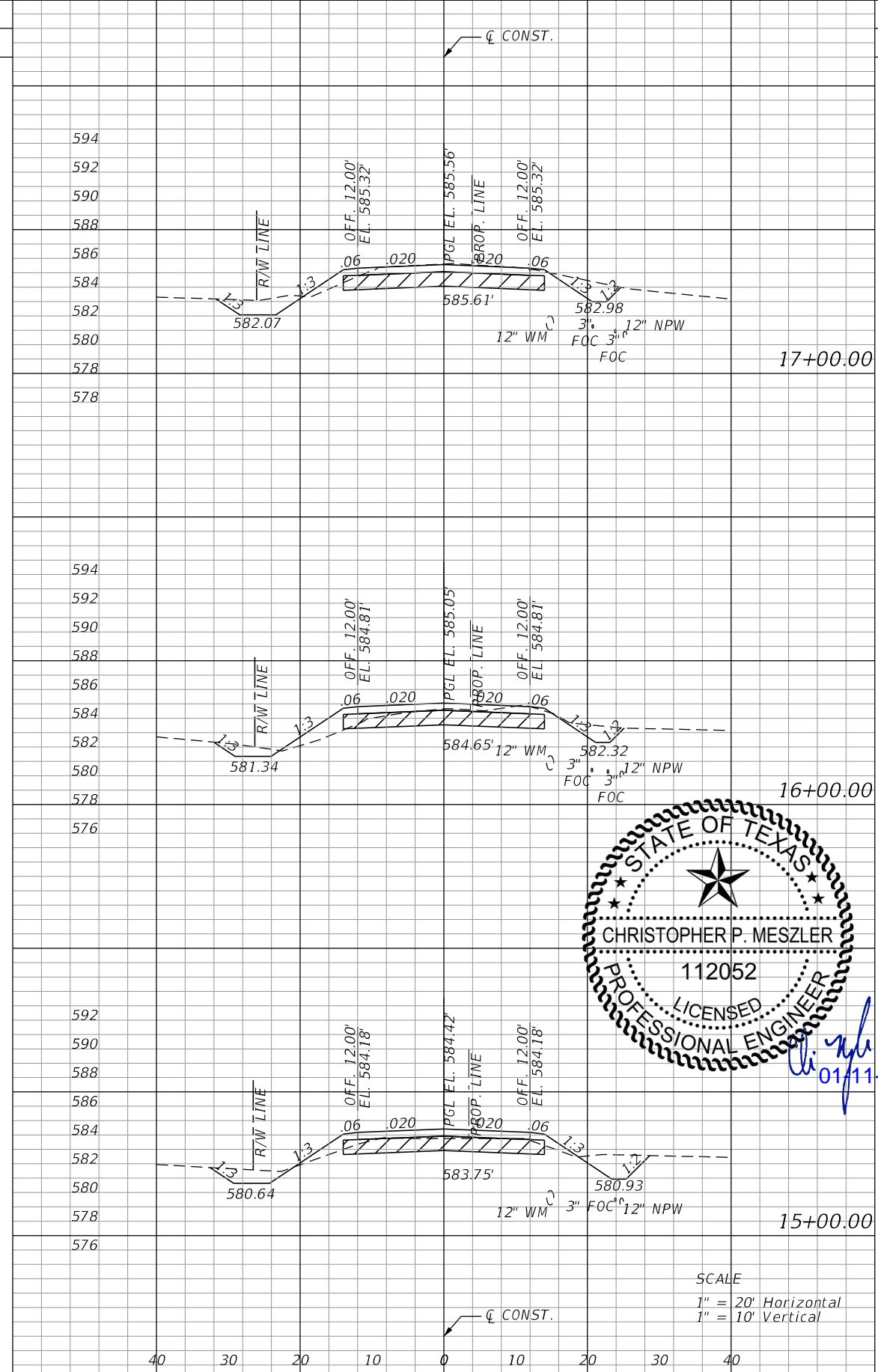
STINSON ROAD IMPROVEMENTS
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

CROSS SECTIONS

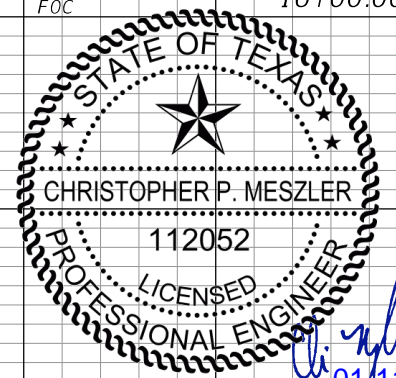
SHEET NO.
27



| Regular | | Exc. | | Embankment | |
|---------|-------|-------|------|------------|---|
| A | V | A | V | A | V |
| 11.27 | 61.2 | 10.43 | 31.7 | | |
| 21.79 | 128.0 | 6.70 | 13.9 | | |
| 47.35 | 152.7 | 0.82 | 3.6 | | |



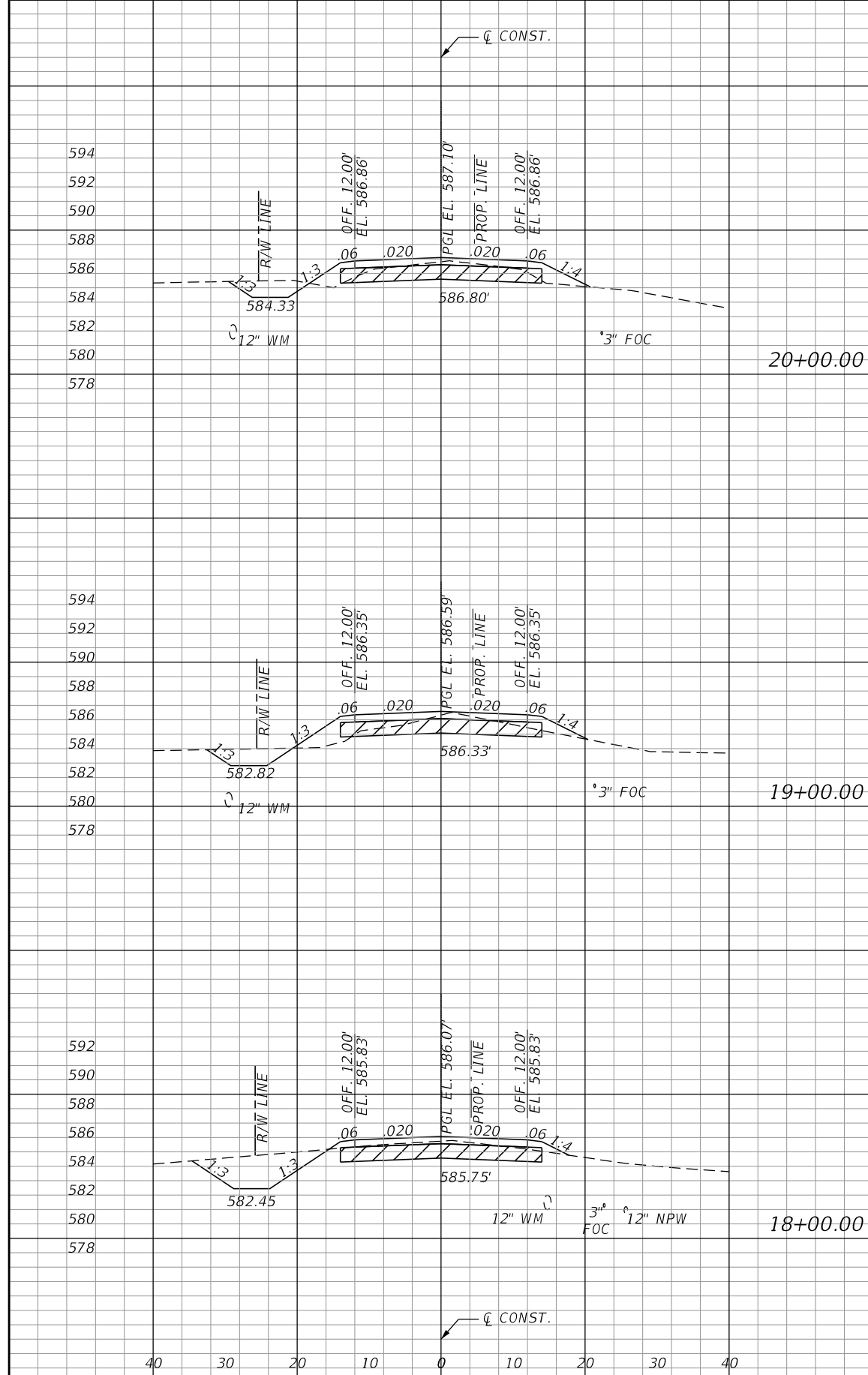
| Regular | | Exc. | | Embankment | |
|---------|------|-------|------|------------|---|
| A | V | A | V | A | V |
| 29.41 | 80.7 | 4.81 | 31.9 | | |
| 14.18 | 59.6 | 12.40 | 42.6 | | |
| 17.98 | 54.2 | 10.58 | 38.9 | | |



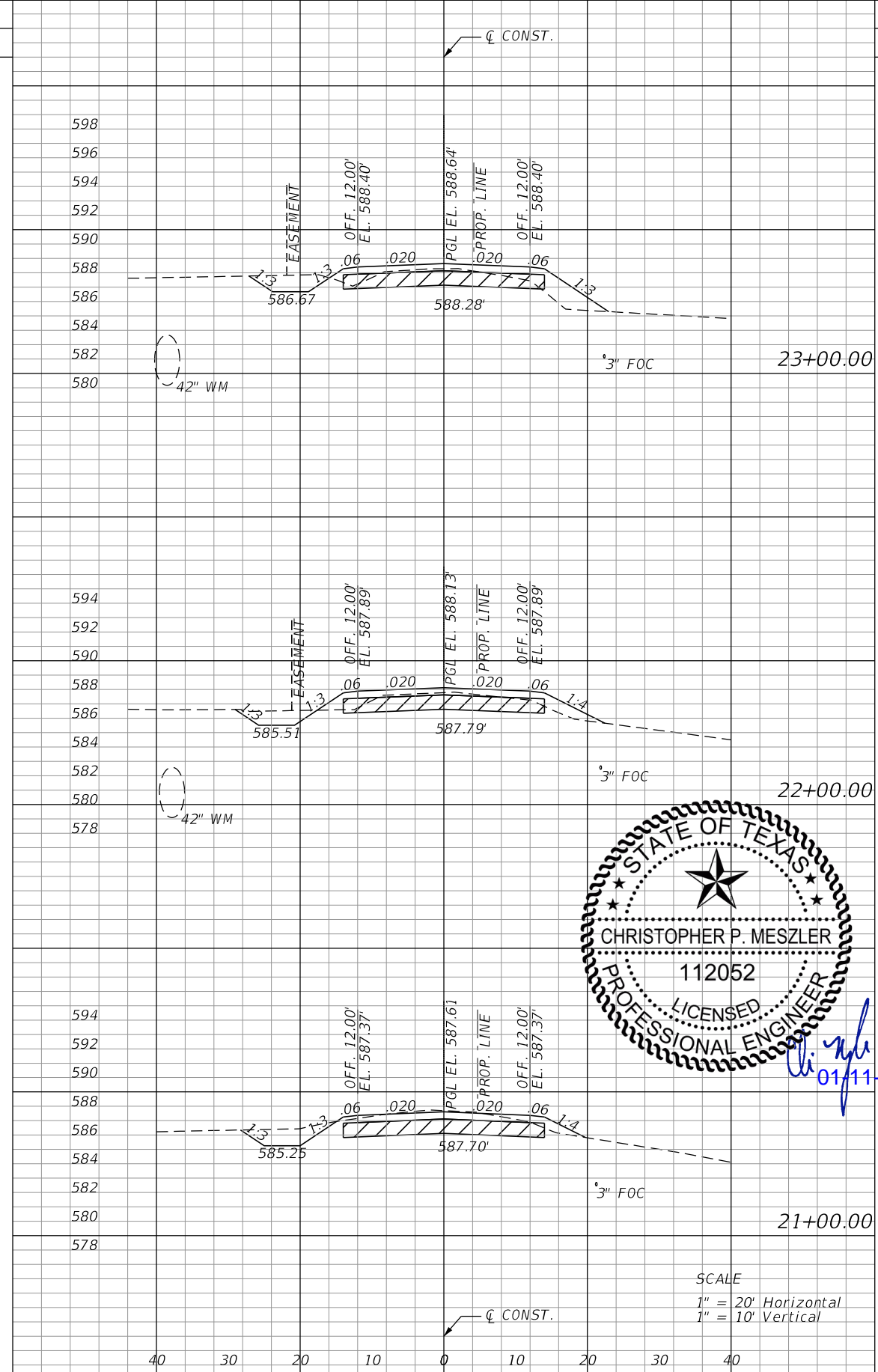
SCALE
1" = 20' Horizontal
1" = 10' Vertical

CALL BEFORE YOU DIG
TEXAS ONE CALL PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG, DRILL,
OR BLAST - STOP CALL
TEXAS ONE CALL SYSTEM
1-800-DIG-1-ESS

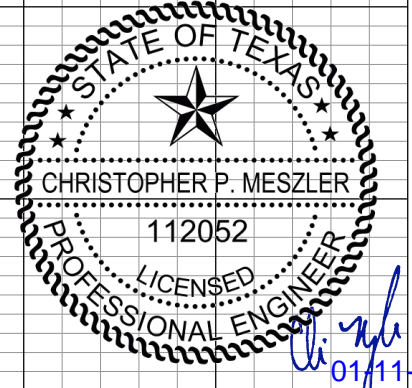
PLOTTED BY:
PLOT DATE:
LAST SAVED:
LOCATION:



| Regular | | Exc. | | Embankment | |
|---------|------|-------|------|------------|---|
| A | V | A | V | A | V |
| 11.44 | 43.0 | 14.63 | 63.8 | | |
| 11.76 | 77.3 | 19.81 | 44.3 | | |
| 29.98 | 110 | 4.12 | 16.5 | | |



| Regular | | Exc. | | Embankment | |
|---------|------|-------|------|------------|---|
| A | V | A | V | A | V |
| 11.29 | 40.6 | 18.97 | 58.3 | | |
| 10.64 | 60.5 | 12.50 | 31.3 | | |
| 22.01 | 61.9 | 4.38 | 35.2 | | |



SCALE
1" = 20' Horizontal
1" = 10' Vertical

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



CHRISTOPHER P. MESZLER, P.E.
LIC. No. 112052
1903 CENTRAL DRIVE, SUITE #405
BEDFORD, TX 76021
PHONE: 817.618.3640
TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

CROSS SECTIONS

| | |
|-----------|----|
| SHEET NO. | 28 |
|-----------|----|

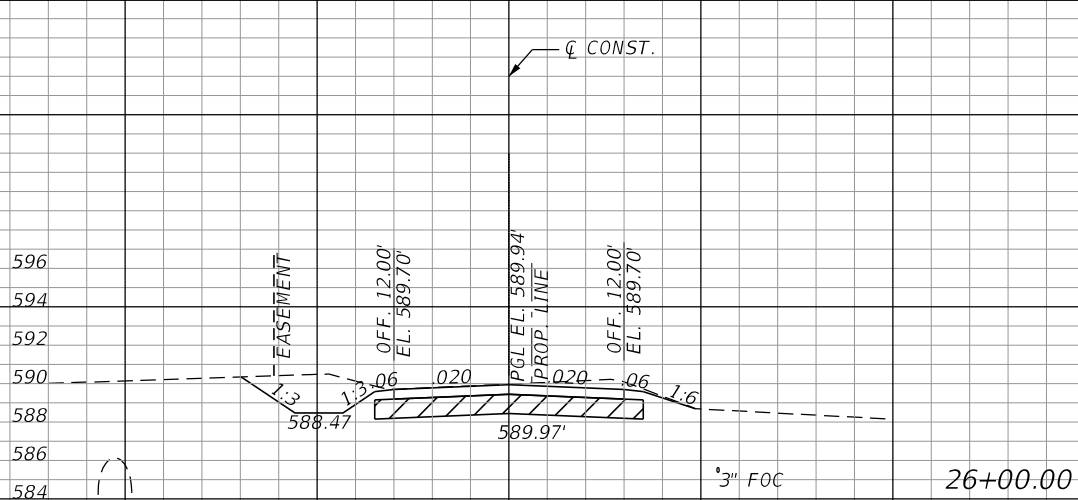
CALL BEFORE YOU DIG
TEXAS ONE CALL PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG, DRILL,
OR BLAST - STOP CALL
TEXAS ONE CALL SYSTEM
1-800-DIG-1-ESS

Regular Exc. Embankment

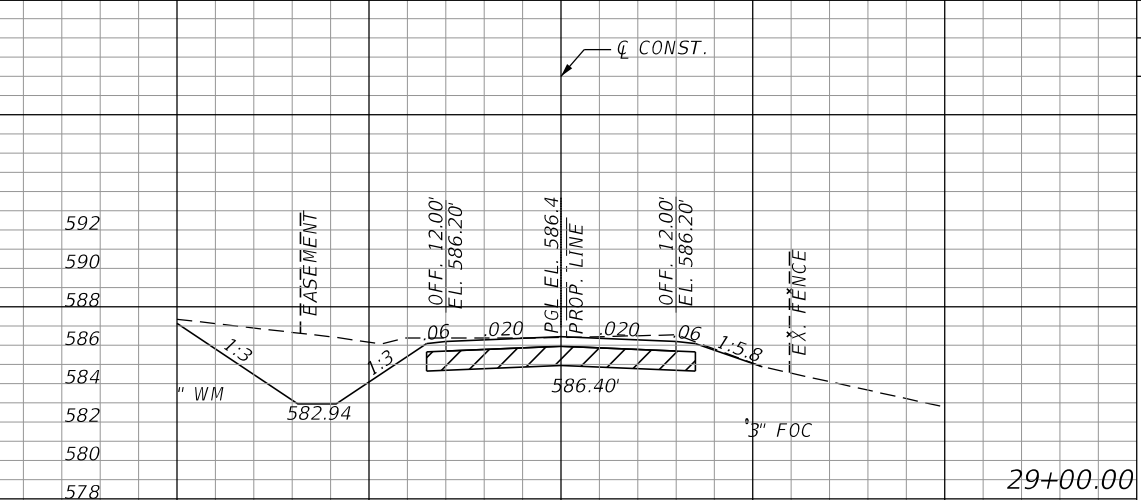
A V A V

Regular Exc. Embankment

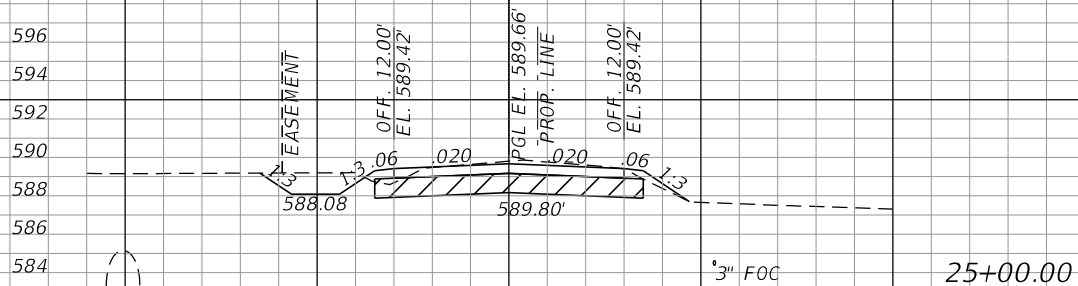
A V A V



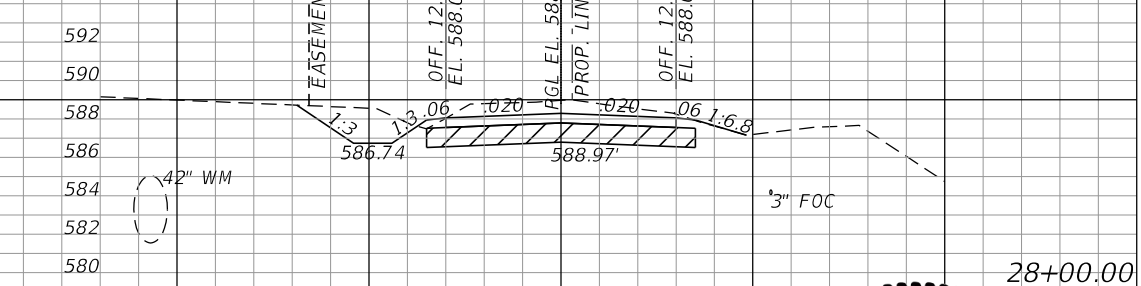
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|-------|-------|---|-----|
| 35.64 | 106.4 | 0 | 6.3 |
|-------|-------|---|-----|



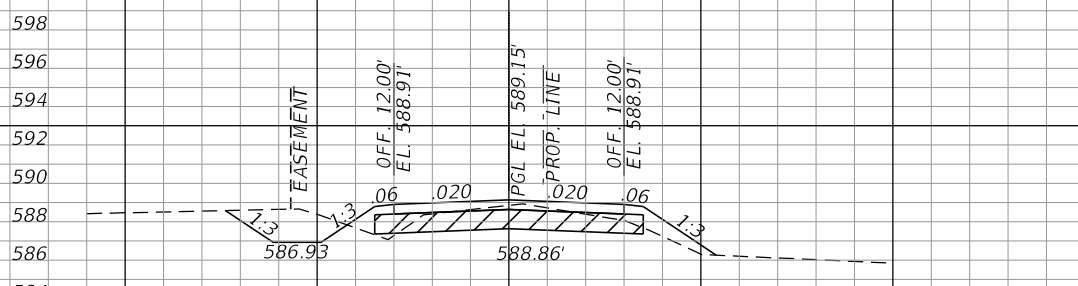
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|-------|-------|---|-----|
| 71.15 | 204.4 | 0 | 1.3 |
|-------|-------|---|-----|



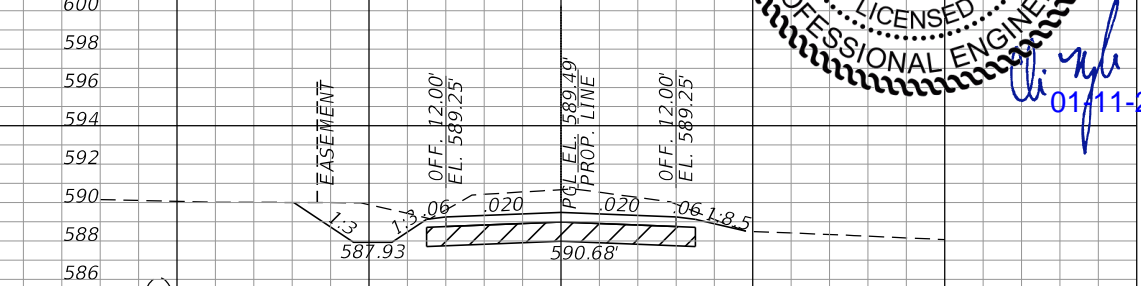
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| 21.83 | 70.4 | 3.39 | 34.8 |
|-------|------|------|------|



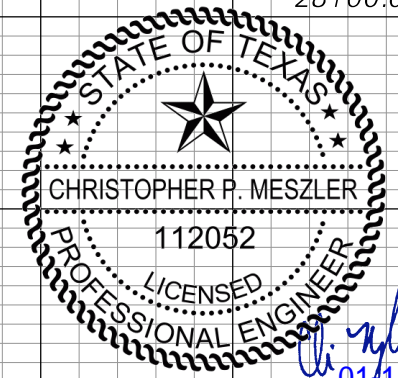
| | | | |
|-------|-------|------|-----|
| 39.21 | 177.5 | 0.70 | 1.3 |
|-------|-------|------|-----|



| | | | |
|-------|------|-------|------|
| 16.22 | 50.9 | 15.41 | 63.7 |
|-------|------|-------|------|



| | | | |
|-------|-------|---|---|
| 56.64 | 170.9 | 0 | 0 |
|-------|-------|---|---|



SCALE
1" = 20' Horizontal
1" = 10' Vertical

PLOTTED BY:
PLOT DATE:
LAST SAVED:
LOCATION:

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



CHRISTOPHER P. MESZLER, P.E.
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PHONE: 817.618.3640
TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

CROSS SECTIONS

| |
|-----------|
| SHEET NO. |
| 29 |

CALL BEFORE YOU DIG
TEXAS ONE CALL PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG, DRILL,
OR BLAST - STOP CALL
TEXAS ONE CALL SYSTEM
1-800-DIG-1155

PLOTTED BY:
 PLOT DATE:
 LAST SAVED:
 LOCATION:

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |

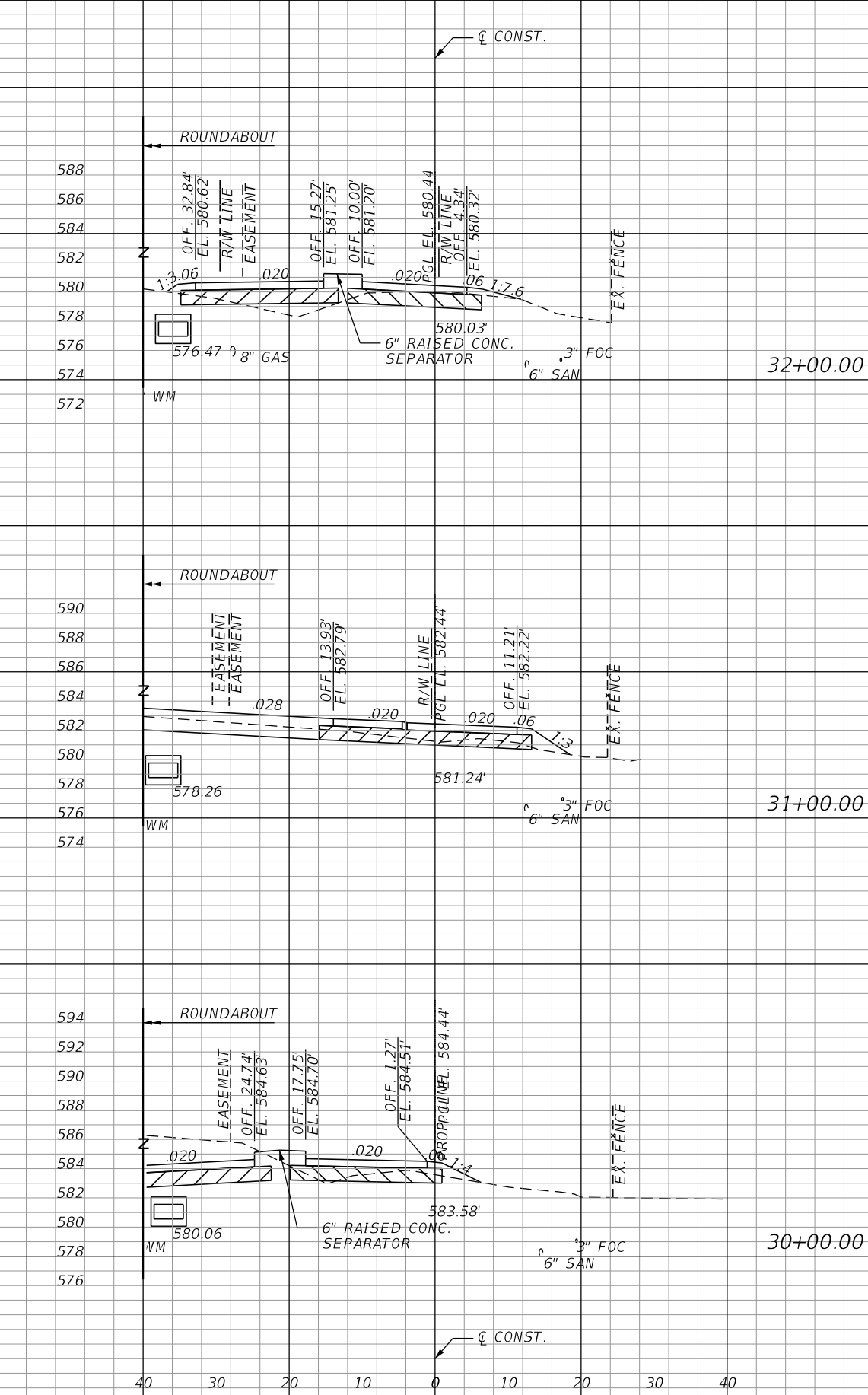


CHRISTOPHER P. MESZLER, P.E.
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 TBPE REG. F-15243

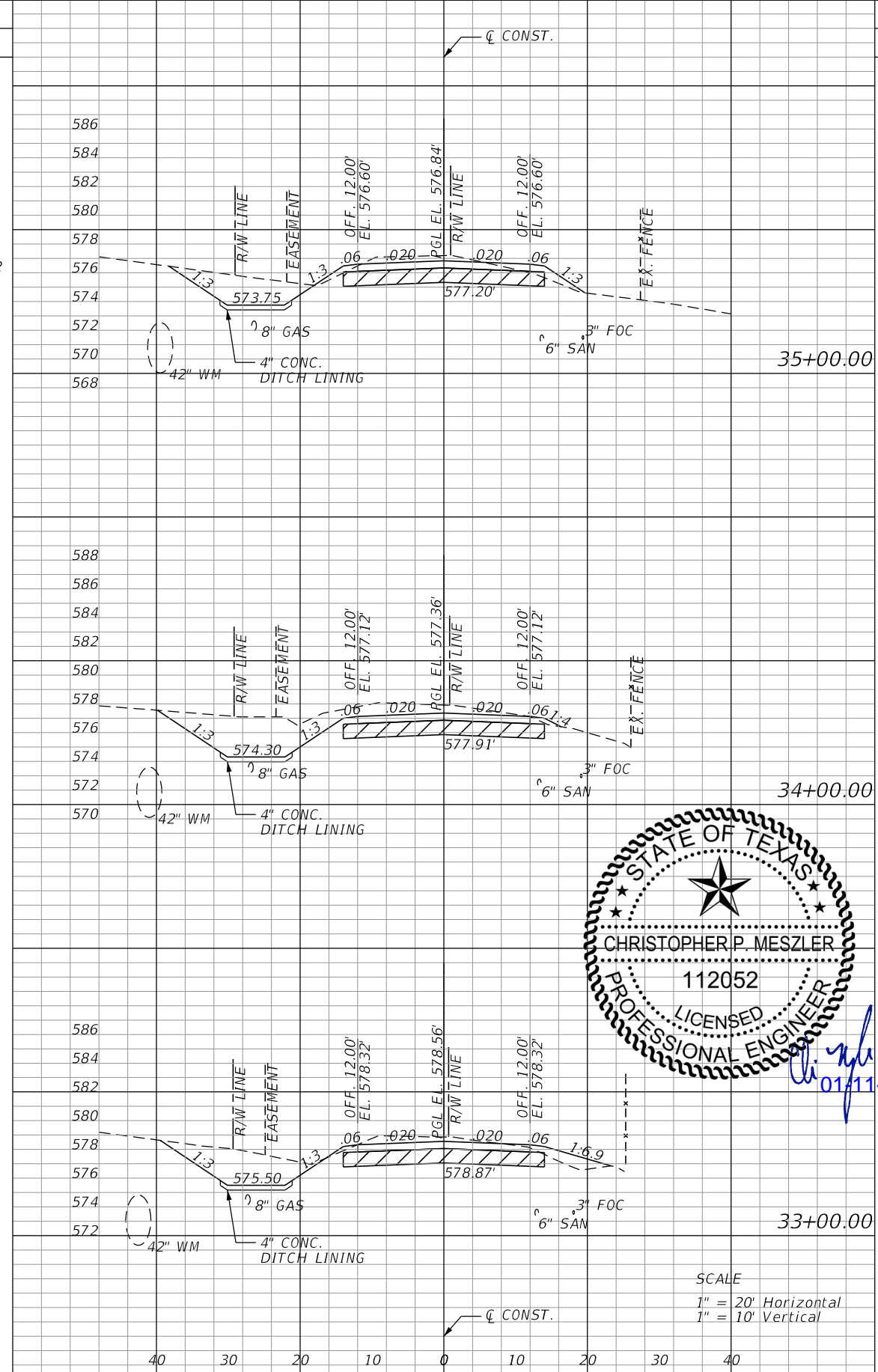
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

CROSS SECTIONS

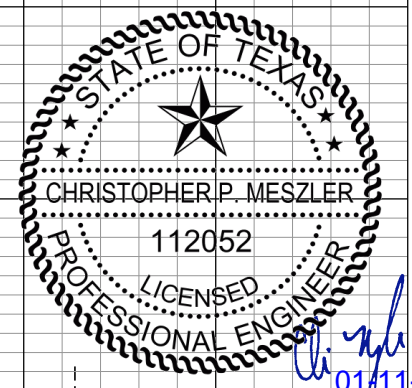
SHEET NO.
 30



| Regular | | Exc. | | Embankment | |
|---------|-------|-------|-------|------------|---|
| A | V | A | V | A | V |
| .59 | 106.0 | 36.78 | 119.2 | | |
| 56.64 | 214.8 | 27.59 | 85.2 | | |
| 59.33 | 241.6 | 18.44 | 34.2 | | |



| Regular | | Exc. | | Embankment | |
|---------|-------|------|------|------------|---|
| A | V | A | V | A | V |
| 42.77 | 216.5 | 5.80 | 12.2 | | |
| 74.17 | 232.5 | .80 | 14.8 | | |
| 51.41 | 96.3 | 7.16 | 81.4 | | |



SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-ESS

PLOTTED BY:
 PLOT DATE:
 LAST SAVED:
 LOCATION:

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |

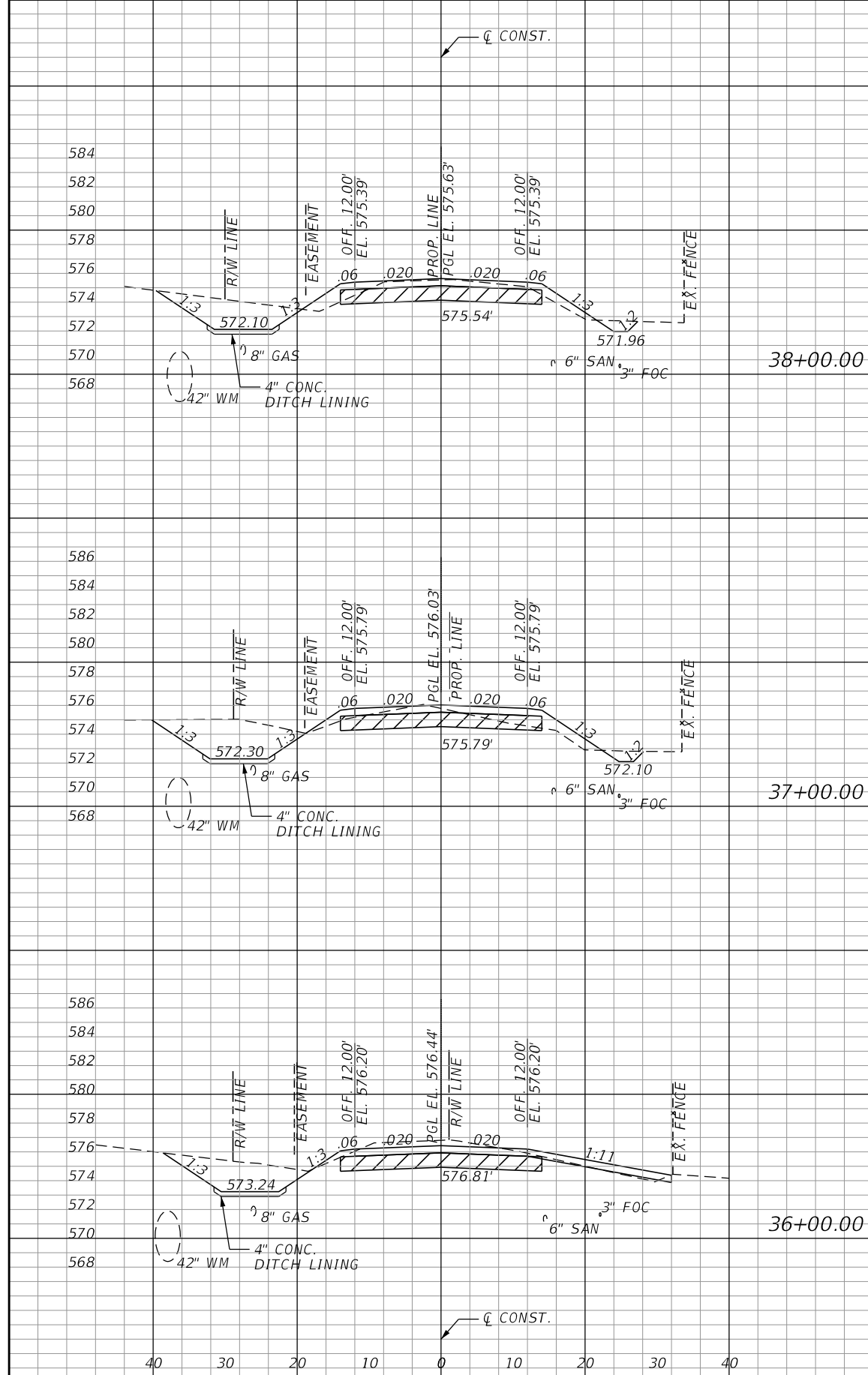


CHRISTOPHER P. MESZLER, P.E.
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 TBPE REG. F-15243

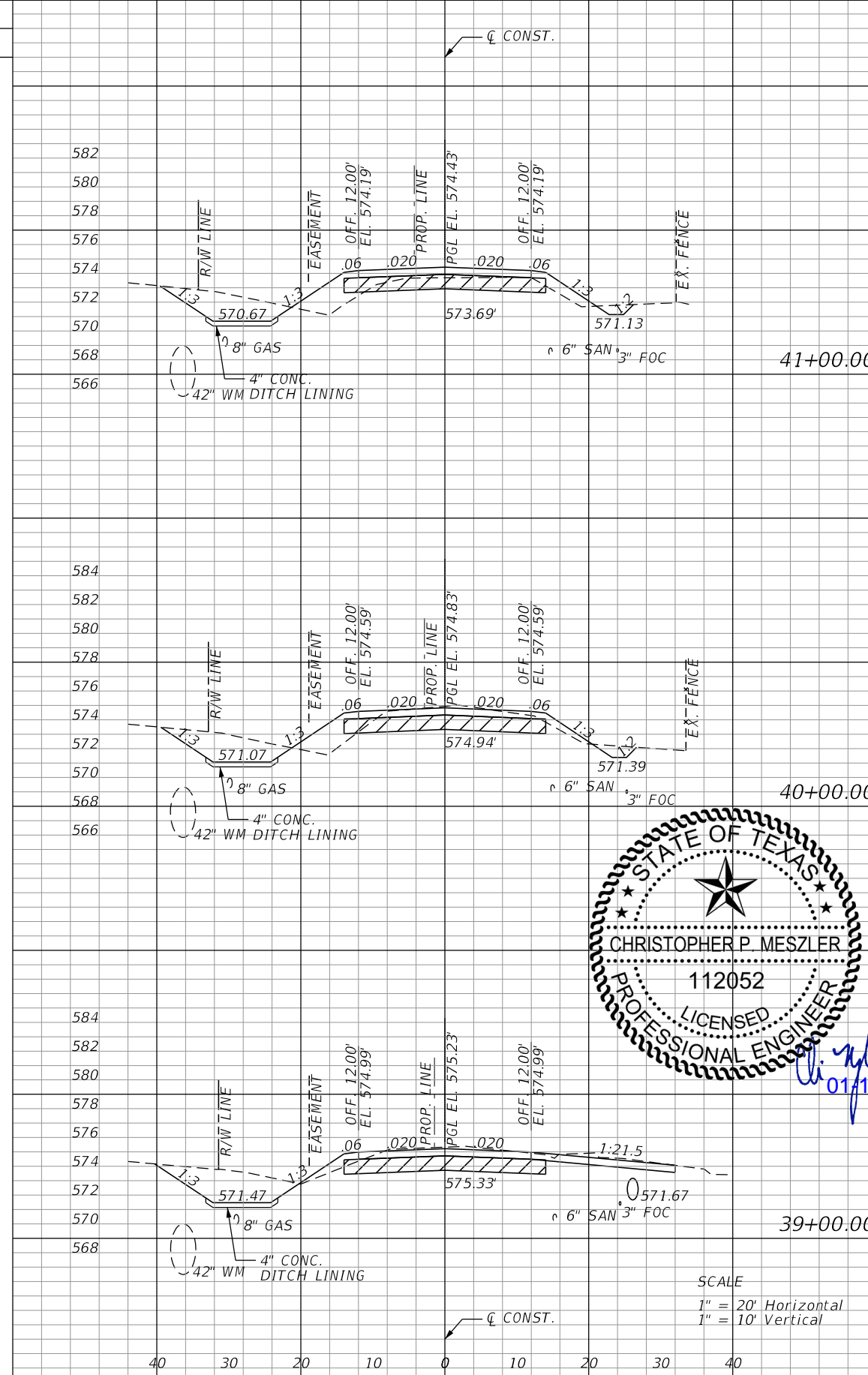
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

CROSS SECTIONS

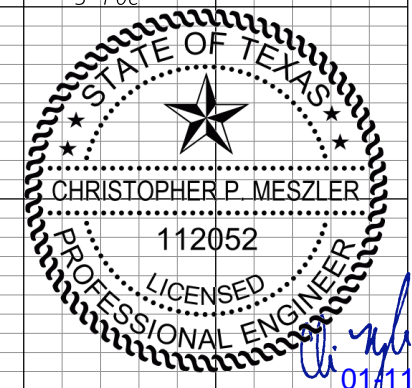
SHEET NO.
 31



| Regular | | Exc. | | Embankment | |
|---------|-------|------|---|------------|------|
| A | V | A | V | A | V |
| 38.47 | 154.2 | | | 12.09 | 50.8 |
| 44.82 | 170.7 | | | 15.33 | 32.5 |
| 47.33 | 166.9 | | | 2.21 | 14.8 |



| Regular | | Exc. | | Embankment | |
|---------|-------|------|---|------------|------|
| A | V | A | V | A | V |
| 25.36 | 108.9 | | | 26.90 | 84.2 |
| 33.42 | 161.9 | | | 18.54 | 43 |
| 54.01 | 171.2 | | | 4.65 | 31 |



SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1555

PLOTTED BY:
 PLOT DATE:
 LAST SAVED:
 LOCATION:

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



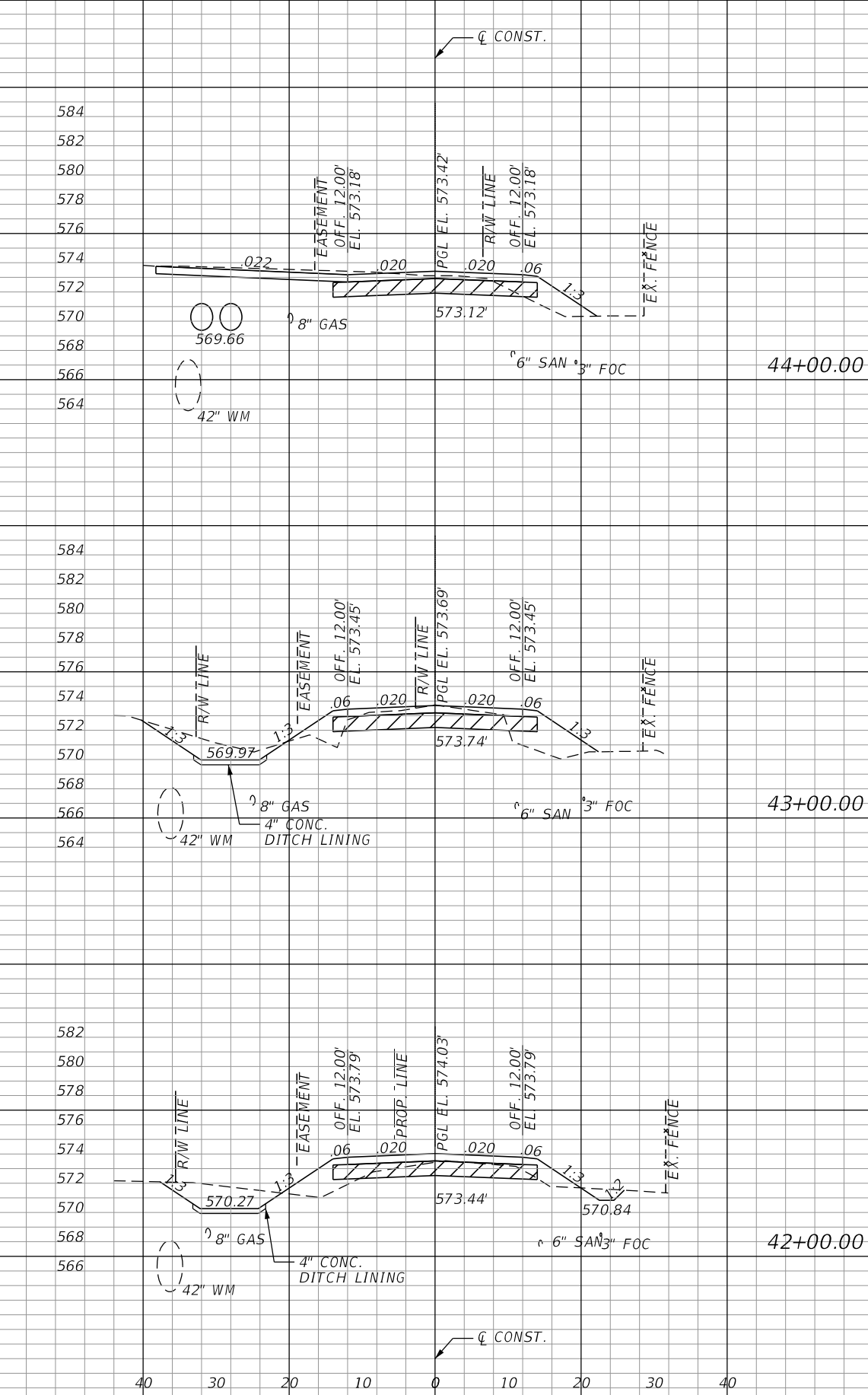
CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243



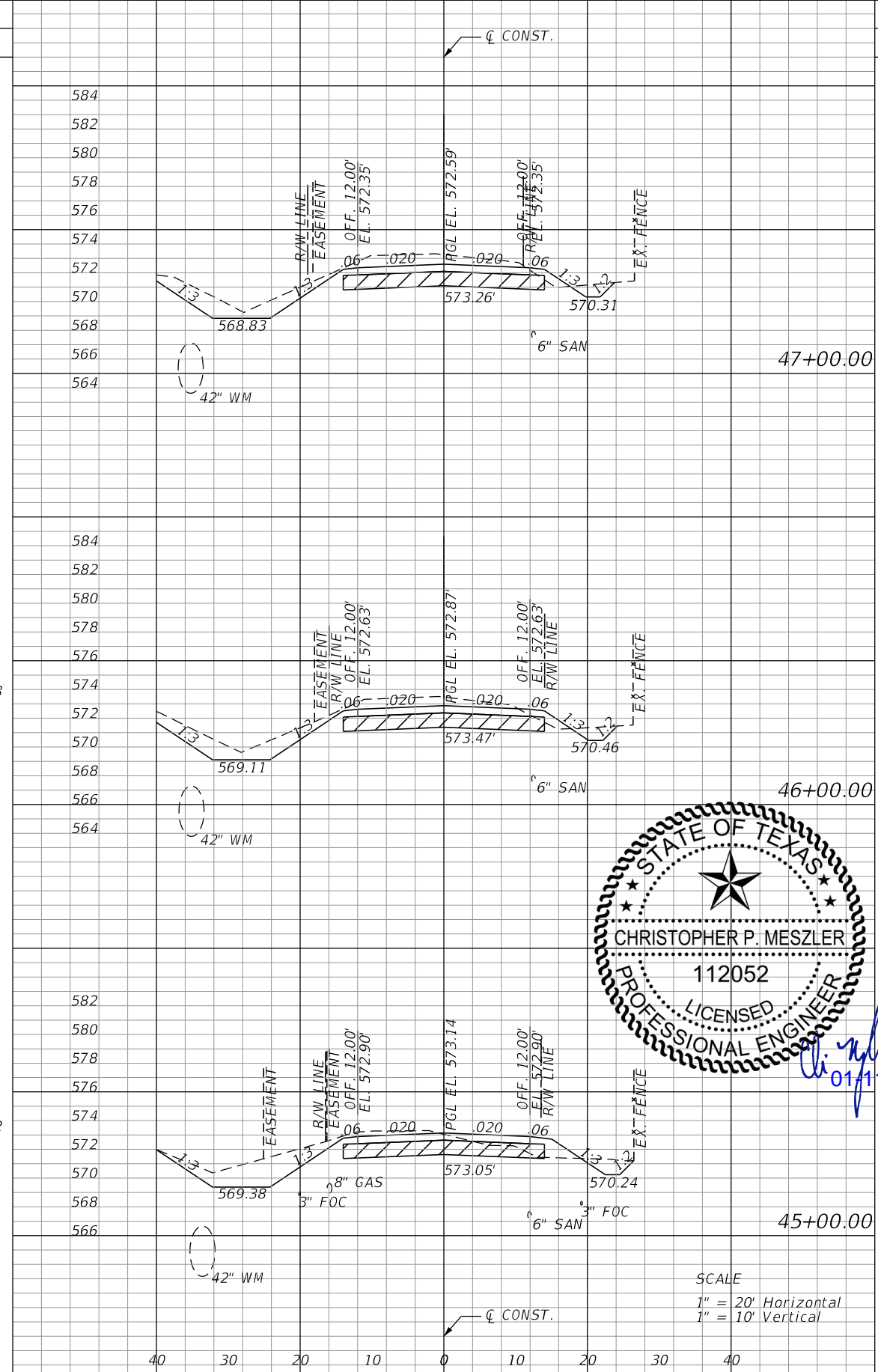
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

CROSS SECTIONS

SHEET NO.
 32



| Regular | | Exc. | | Embankment | |
|---------|------|-------|-------|------------|-------|
| A | V | A | V | A | V |
| 23.96 | 82.8 | 14.90 | 86.6 | 20.76 | 78.7 |
| 21.74 | 87.2 | 27.74 | 101.2 | 54.63 | 180.2 |



| Regular | | Exc. | | Embankment | |
|---------|-------|------|------|------------|-------|
| A | V | A | V | A | V |
| 53.56 | 200.4 | 2.75 | 10.9 | 42.69 | 106.6 |



SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1-555

PLOTTED BY:
 PLOT DATE:
 LAST SAVED:
 LOCATION:

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



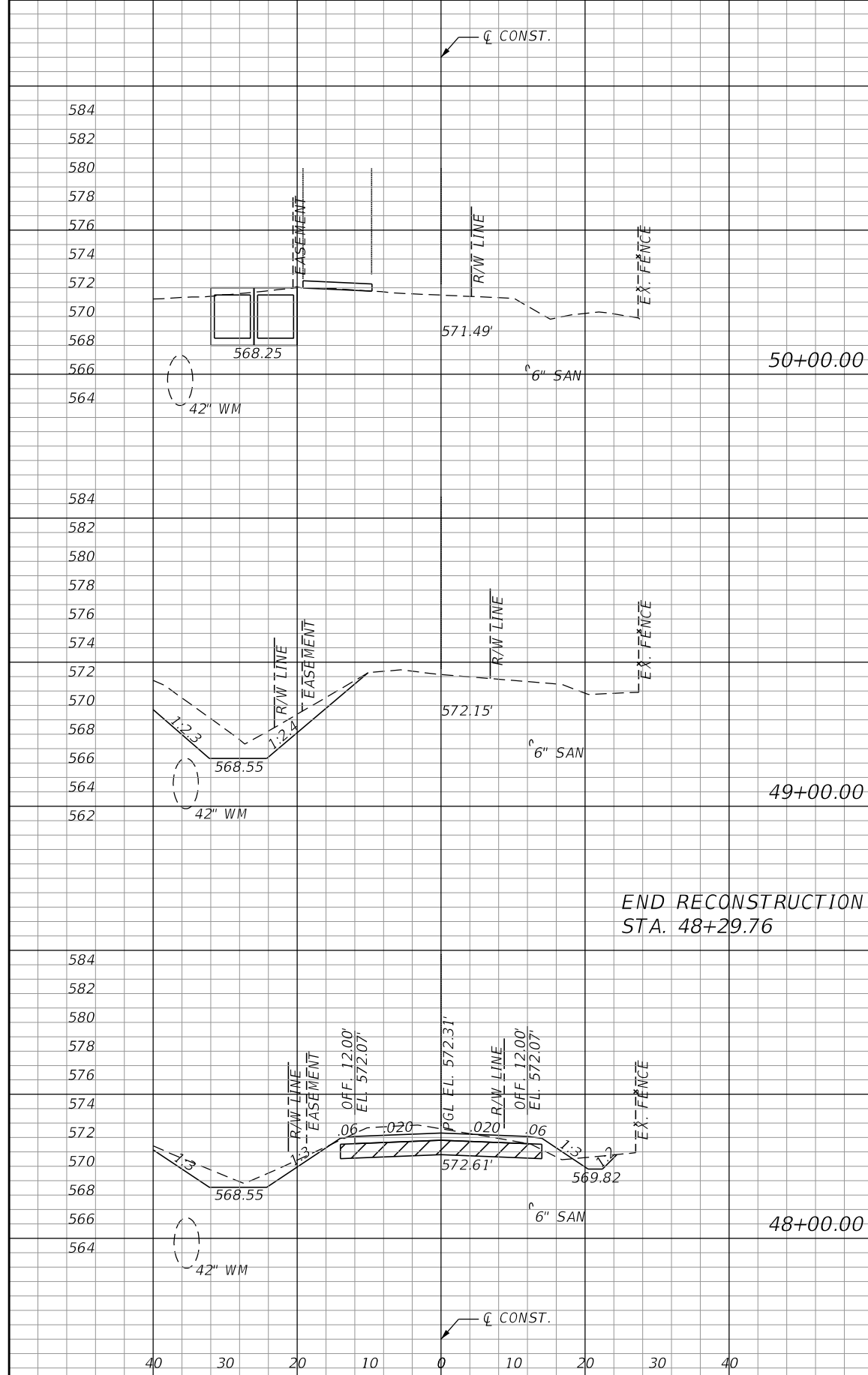
CHRISTOPHER P. MESZLER, P.E.
 LIC. No. 112052
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 PHONE: 817.618.3640
 TBPE REG. F-15243



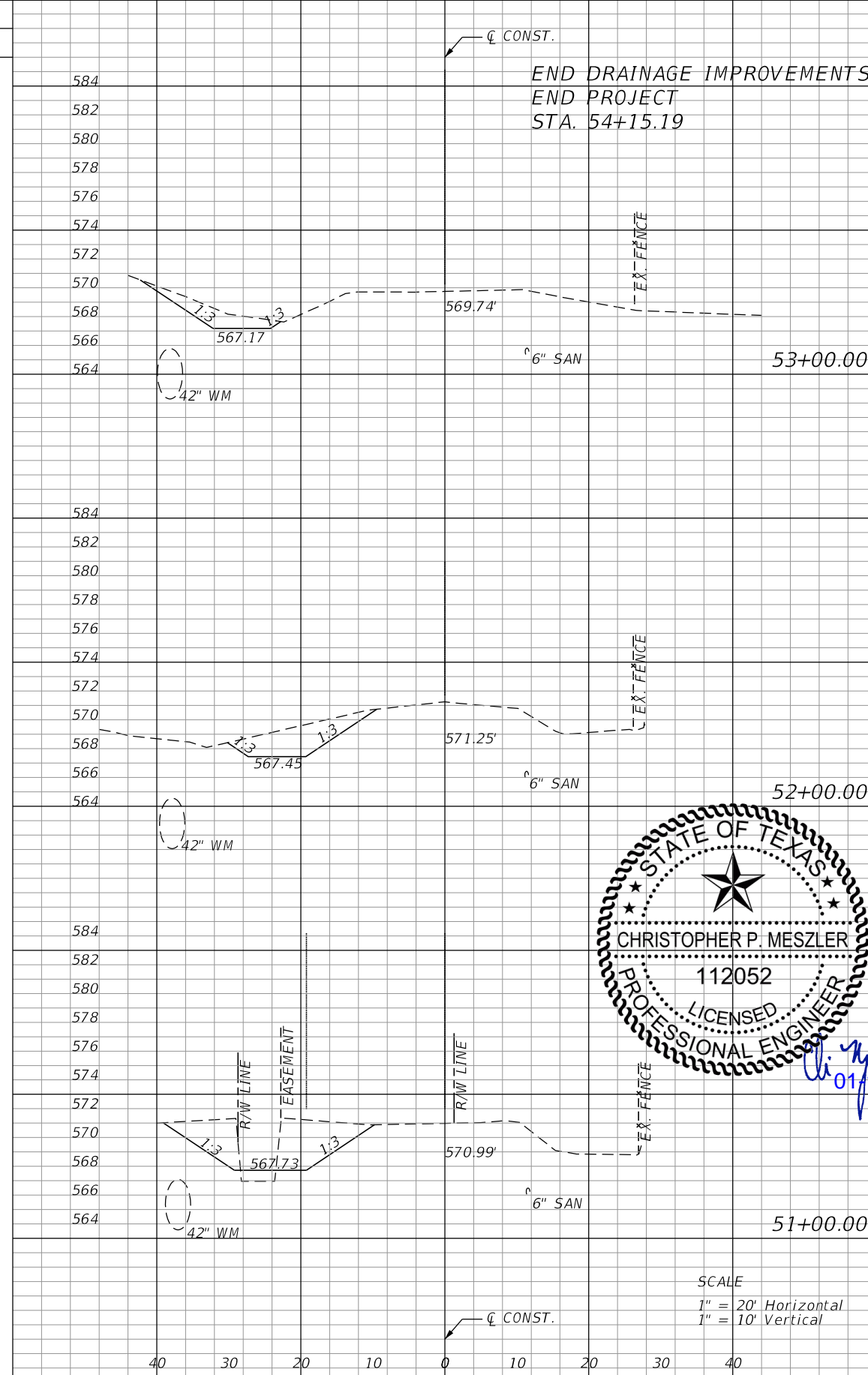
STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

CROSS SECTIONS

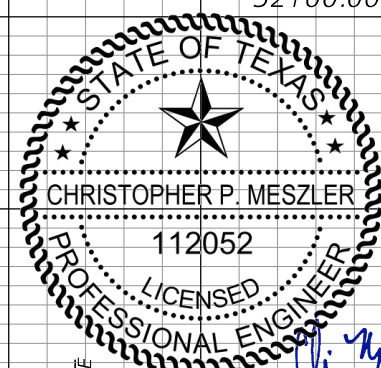
SHEET NO.
 33



| Regular | | Exc. | | Embankment | |
|---------|-------|------|------|------------|------|
| A | V | A | V | A | V |
| 0.00 | 103.5 | 0.00 | 0.0 | 0.00 | 0.0 |
| 55.88 | 171.2 | 0.00 | 6.8 | 0.00 | 6.8 |
| 36.58 | 166.9 | 3.67 | 11.9 | 3.67 | 11.9 |



| Regular | | Exc. | | Embankment | |
|---------|-------|------|-----|------------|-----|
| A | V | A | V | A | V |
| 15.11 | 78.5 | 0.00 | 0.0 | 0.00 | 0.0 |
| 27.27 | 142.6 | 0.00 | 6.8 | 0.00 | 6.8 |
| 49.73 | 92.1 | 3.67 | 6.8 | 3.67 | 6.8 |



SCALE
 1" = 20' Horizontal
 1" = 10' Vertical

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1555

| Regular Exc. | | Embankment | |
|--------------|---|------------|---|
| A | V | A | V |

| Regular Exc. | | Embankment | |
|--------------|---|------------|---|
| A | V | A | V |

EARTHWORK TOTALS

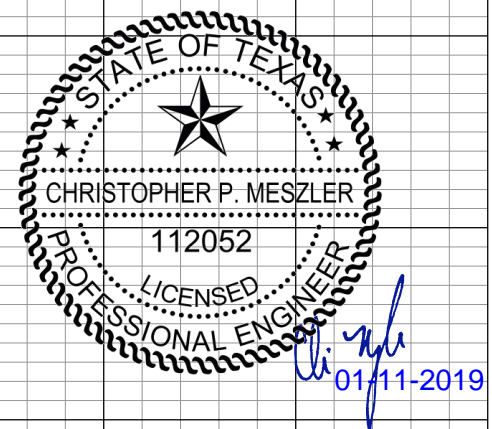
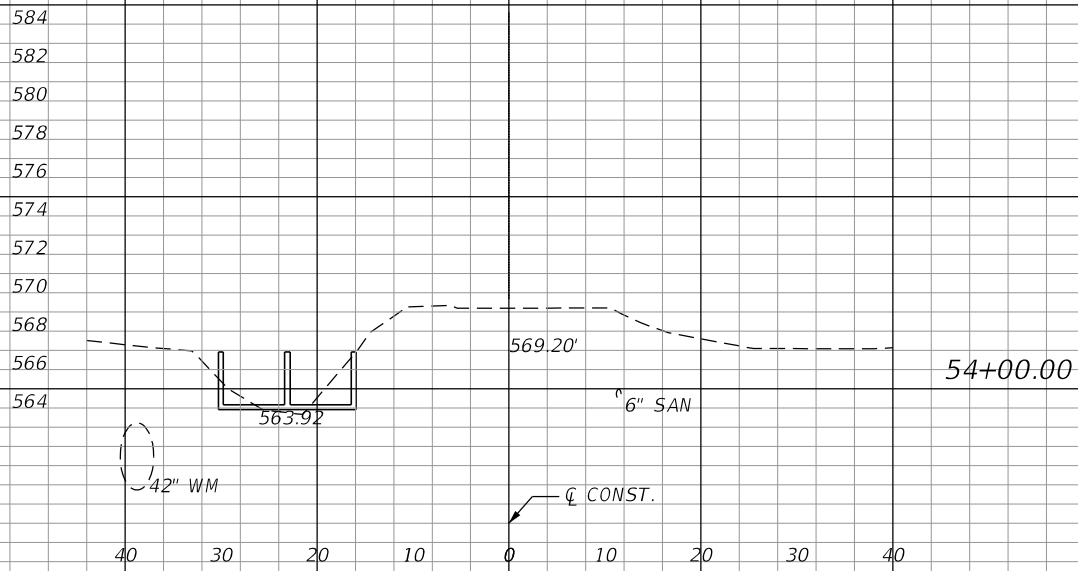
5241.87 2195.85

EXCAVATION REDUCTION:
EXISTING ASPHALT (AVG. 3IN)
REMOVAL PAID FOR UNDER ITEM
105-6011 - REMOVING STAB BASE AND ASPHALT
PAVEMENT (2" -6").

-1052.83

ADDED EMBANKMENT
FOR DRIVEWAYS

291.25



SCALE
1" = 20' Horizontal
1" = 10' Vertical

PLOTTED BY:
PLOT DATE:
LAST SAVED:
LOCATION:

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



CHRISTOPHER P. MESZLER, P.E.
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1903 CENTRAL DRIVE, SUITE #405
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TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
CITY OF LUCAS
PUBLIC WORKS DEPARTMENT
665 COUNTRY CLUB ROAD
LUCAS, TX. 75002

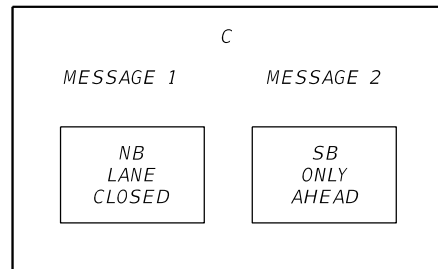
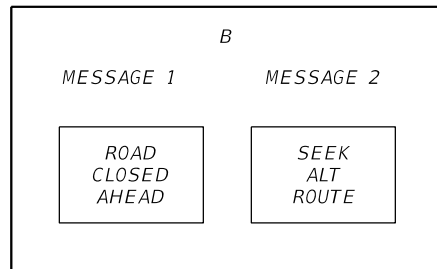
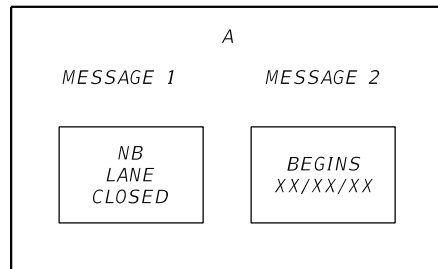
CROSS SECTIONS

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34

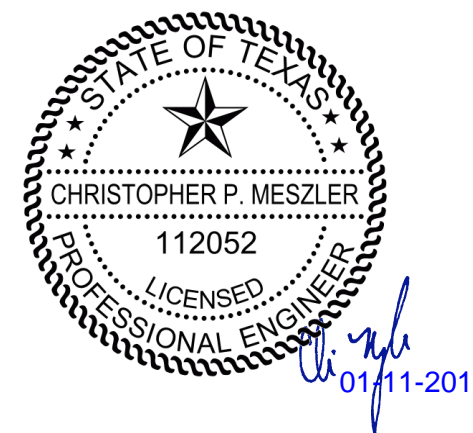
CALL BEFORE YOU DIG
TEXAS ONE CALL PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG, DRILL,
OR BLAST - STOP CALL
TEXAS ONE CALL SYSTEM
1-800-DIG-1-ESS

TEMPORARY TRAFFIC CONTROL GENERAL NOTES

1. ONE LANE, SOUTHBOUND SHALL BE MAINTAINED OPEN AT ALL TIMES. NORTHBOUND MAY BE DETOURED WITH PROPER SIGNAGE. NOTIFY ENGINEER AT LEAST TWO WEEKS PRIOR TO NORTHBOUND CLOSURE.
2. THE CONTRACTOR SHALL NOT COMMENCE WORK ON THE ROADWAY BEFORE 7:00 AM AND SHALL ARRANGE HIS WORK SO THAT NO MACHINERY OR EQUIPMENT SHALL BE CLOSER THAN 20 FEET TO THE TRAVELED ROADWAY AFTER SUNSET EXCEPT WHEN APPROVED BY THE ENGINEER. UNLESS OTHERWISE APPROVED BY THE CITY, WORKING HOURS SHALL BE 7AM-7PM MON.-FRI. AND 8AM-7PM ON SATURDAYS. NO WORK SHALL BE DONE ON CITY HOLIDAYS OR SUNDAYS.
3. THE REGULATORY SPEED LIMIT ESTABLISHED WITHIN WORK ZONE TRAVEL WAYS SHALL BE 25 M.P.H. REDUCED SPEED AND REGULATORY SPEED SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH THE TXDOT STANDARDS.
4. A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE USED UNDER THE FOLLOWING CONDITIONS:
 CONDITION 1: TWO WEEKS PRIOR TO CONSTRUCTION, INSTALL ONE PCMS IN ADVANCE OF THE PROJECT ON EACH END.
 CONDITION 2: DURING CONSTRUCTION, MAINTAIN ONE PCMS IN ADVANCE OF THE WORK ZONE ON EACH END.



5. ANY DROP-OFF CONDITION REMAINING IN THE WORK ZONE GREATER THAN 6 IN AND WITHIN 10 FT FROM THE TRAVEL LANE, ANY TIME ACTIVE CONSTRUCTION CEASES, SHALL BE BACK FILLED AT A 1:4 SLOPE OR FLATTER, OR COVERED AND SECURED BY STEEL PLATE.
6. ANY CHANGES TO TRAFFIC CONTROL PLANS REQUIRE PRIOR APPROVAL FROM THE ENGINEER.
7. THE CONTRACTOR MAY EXCAVATE THE PROPOSED ROADWAY FULL WIDTH ONLY WITH THE PRIOR APPROVAL OF THE ENGINEER. THERE SHALL BE NO ADDITIONAL EXPENSE TO THE CITY FOR ANY ADDITIONAL MATERIAL NECESSARY DUE TO THE FULL WIDTH EXCAVATION TO MAINTAIN ACCESS FOR EMERGENCY AND LOCAL TRAFFIC.
8. CONTRACTOR SHALL NOTIFY THE CITY AND EMERGENCY SERVICES OF COMPLETE ROAD CLOSURES AND ALL DETOURS AT LEAST TWO WEEKS PRIOR TO CLOSURE OR DETOUR.
9. PAYMENT FOR THE SATISFACTORY COMPLETION OF ALL WORK FOR THE INSTALLATION, MAINTENANCE, REMOVAL OF ALL THE TRAFFIC CONTROLS IMPLEMENTED WILL BE MADE AS A LUMP SUM. TRAFFIC CONTROL LUMP SUM PAYMENT SHALL INCLUDE REMOVAL, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES (WARNING SIGNS, BARRICADES, FLAG MEN, ARROW BOARD, TEMPORARY PAVEMENT MARKINGS FOR DETOUR (IF APPLICABLE) AND ANY OTHER TRAFFIC CONTROL MEASURES IMPLEMENTED AS DIRECTED BY THE ENGINEER TO MAINTAIN THE NECESSARY TRAFFIC LANES THROUGH THE PROJECT. THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR INSTALLATION, LABOR AND EQUIPMENT NECESSARY TO CONSTRUCT AND MAINTAIN TRAFFIC CONTROL FOR THE DURATION OF THE PROJECT OR THE PERIOD OF TIME THAT THE ENGINEER DEEMS NECESSARY FOR THE SAFETY OF THE TRAVELING PUBLIC.
10. ALL BARRICADES AND WARNING SIGNS WILL CONFORM TO THE "TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
11. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICABLE WHEN THEY ARE NO LONGER NEEDED.
12. IF CONSTRUCTION ACTIVITIES OR WORK ZONES WILL INTERRUPT USPS MAIL SERVICE ACCESS, CONTRACTOR SHALL PROVIDE TEMPORARY MAIL DELIVERY LOCATIONS OUTSIDE OF THE WORK ZONE. TEMPORARY MAIL BOXES AND LOCATIONS SHALL BE APPROVED BY THE LOCAL POST MASTER AND COORDINATED WITH PROPERTY OWNERS PRIOR TO THE DELIVERY ACCESS INTERRUPTION.
13. THE CONTRACTOR SHALL MAINTAIN TRASH COLLECTION SERVICE ACCESSIBILITY OTHERWISE CONTRACTOR WILL HAVE TO COLLECT AND REMOVE TRASH ON NORMALLY SCHEDULED DAYS.
14. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE PROPERTY AT ALL TIMES.
15. THE CONTRACTOR SHALL MAINTAIN ADEQUATE WIDTH AND ROADWAY STRUCTURE FOR EMERGENCY VEHICLE USE IN THE SOUTHBOUND DIRECTION AT ALL TIMES.
16. CULVERT CONSTRUCTION SHALL NOT CLOSE MORE THAN ONE DIRECTION OF TRAFFIC. ANY PROPOSED TEMPORARY PAVEMENT OR DIVERSIONS SHALL BE SUBMITTED FOR APPROVAL.
17. ALL TEMPORARY PAVEMENT MARKINGS REQUIRED DURING CONSTRUCTION THAT MAY CONFLICT WITH A FUTURE PHASE OR FINAL MARKING SHALL BE OF THE REMOVABLE TYPE. ALL PAVEMENT MARKINGS SHALL BE REFLECTIVE.



| SUMMARY OF TEMPORARY ASPHALT PAVEMENT | | | | | | | | |
|---------------------------------------|------|----------------|---------------|---------------|---------------------|-------|-----------------|-------------------------|
| LOCATION STA. TO STA. | SIDE | LENGTH (FT) | WIDTH (FT) | THICK (IN) | TN | | DESIGN NOTES | CONSTRUCTION REMARKS |
| | | | | | P | F | | |
| | | | | | 8+56.05 TO 10+55.45 | RT | | |
| 35+88.00 TO 36+00.35 | RT | 12.35 | 1.0 | 2.0 | 0.16 | | | |
| 42+09.75 TO 42+40.00 | RT | 30.25 | 1.0 | 2.0 | 0.39 | | | |
| 42+40.00 TO 43+12.00 | RT | 72.00 | 2.0 | 2.0 | 1.84 | | | |
| 43+12.00 TO 43+60.00 | RT | 48.00 | 3.0 | 2.0 | 1.84 | | | |
| 43+60.00 TO 45+02.00 | RT | 142.00 | 4.0 | 2.0 | 7.26 | | | |
| 45+02.00 TO 45+80.00 | RT | 78.00 | 3.0 | 2.0 | 2.99 | | | |
| 45+80.00 TO 47+87.54 | RT | 207.54 | 2.0 | 2.0 | 5.30 | | | |
| 47+87.54 TO 48+29.76 | RT | 42.22 | 1.0 | 2.0 | 0.54 | | | |
| TOTAL | | | | | | 22.86 | | |

PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:28 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\Roadway\TCGMRD01.DGN

| REVISIONS | |
|-----------|-------------|
| DATE | DESCRIPTION |
| | |



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 TBPE REG. F-15243



STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

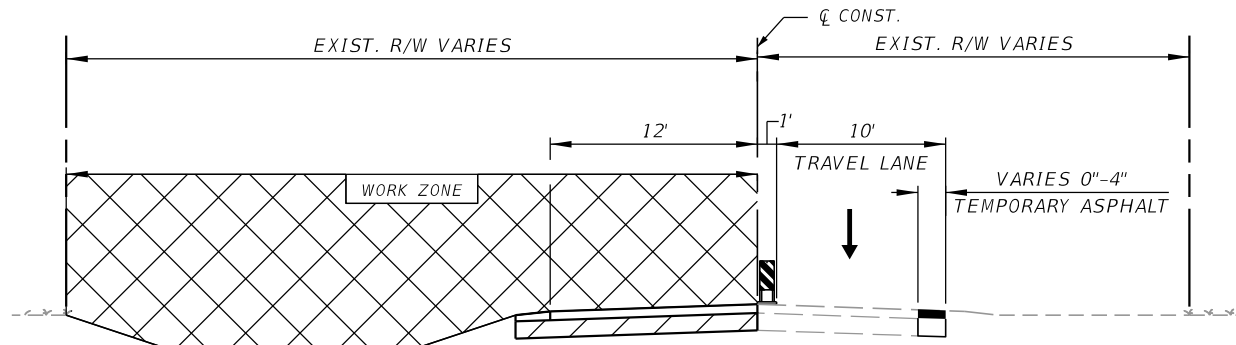
**TRAFFIC CONTROL
GENERAL NOTES**

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NO.

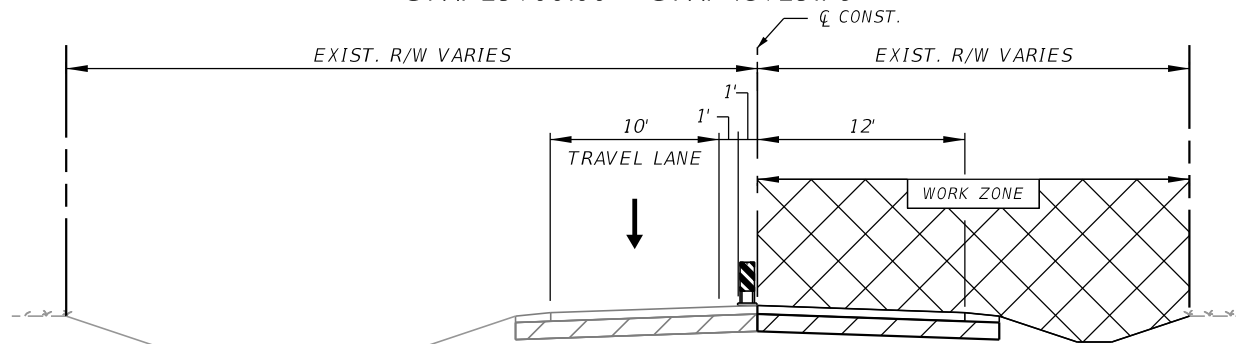
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CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1155

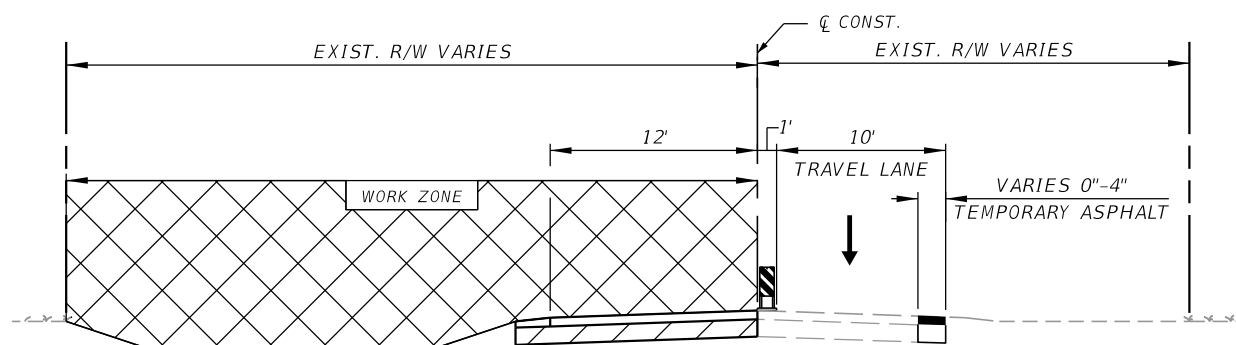
STINSON ROAD



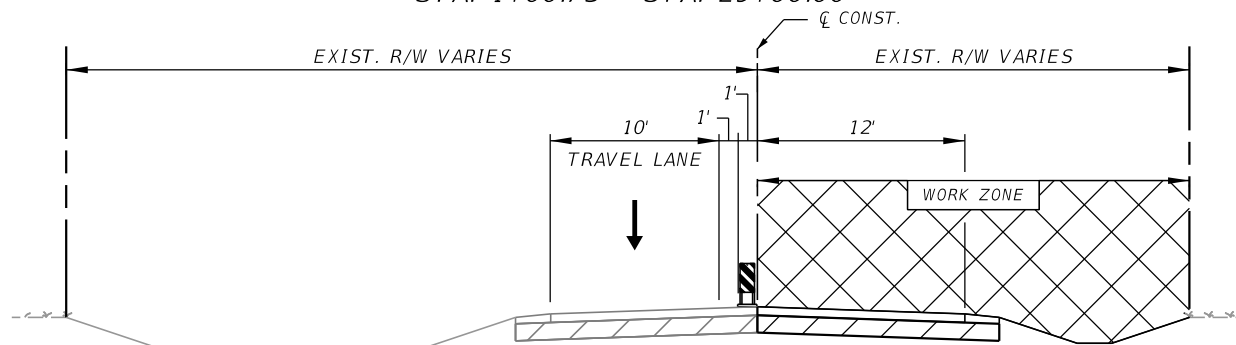
PHASE I
STA. 29+00.00 - STA. 48+29.76



PHASE II
STA. 29+00.00 - STA. 48+29.76



PHASE III
STA. 1+00.73 - STA. 29+00.00



PHASE IV
STA. 1+00.73 - STA. 29+00.00

 WORK ZONE
 CHANNELIZING DEVICE

PHASE I: RECONSTRUCTION OF SOUTHBOUND STINSON ROAD (NORTH WEST PHASE OF CONSTRUCTION)

1. TWO WEEKS PRIOR TO CONSTRUCTION INSTALL ONE PCMS IN ADVANCE OF THE WORKZONE ON EACH END. USE MESSAGE GROUP A, (SEE TRAFFIC CONTROL GENERAL NOTES).
2. ADJUST NORTHBOUND PCMS TO MESSAGE GROUP B AND SOUTHBOUND PCMS TO MESSAGE GROUP C (SEE TRAFFIC CONTROL GENERAL NOTES).
3. CLOSE NORTHBOUND LANE WITH TYPE 3 BARRICADE AND R11-2 ROAD CLOSED SIGN. ADD CW20-3D ROAD CLOSED AHEAD SIGN 250' AHEAD OF WORK ZONE. MAINTAIN TRAFFIC IN SOUTHBOUND LANE ACCORDING TO TXDOT STANDARD TCP(2-8a)-18 (OMIT R1-2 AND CW3-2).
4. PLACE TEMPORARY ASPHALT ACCORDING TO TABLE ON TRAFFIC CONTROL GENERAL NOTES SHEET AND/OR AS REQUIRED TO PROVIDE A 10' TRAVEL LANE.
5. SHIFT SOUTHBOUND TRAFFIC TO THE NORTHBOUND LANE USING TXDOT STANDARD TCP(2-8a)-18 (OMIT R1-2 AND CW3-2). NORTHBOUND TRAFFIC DIRECTION CLOSED TO TRAFFIC. MAINTAIN TYPE 3 BARRICADE AND ROAD CLOSED SIGNS IN NORTHBOUND DIRECTION.
6. CLOSE HIGHLAND DR. AT CAMAN PARK DR. USING TXDOT STANDARD WZ(RCD)-13. MAINTAIN ACCESS TO ALL OTHER SIDE STREETS AND DRIVEWAYS. REDUCE SIGN SPACING TO 100', OMIT M3-4 SIGNS, AND REPLACE M1-6T SIGNS WITH M4-12T.
7. CONSTRUCT WESTERN PORTION OF CULVERT 1. CONSTRUCT SUBGRADE, BASE, PAVEMENT, DRIVEWAYS, SIDE SLOPES, SIGNAGE, ETC. IN THE WORK ZONE.

PHASE II: RECONSTRUCTION OF NORTHBOUND STINSON ROAD (NORTH EAST PHASE OF CONSTRUCTION)

1. MAINTAIN NORTHBOUND PCMS MESSAGE GROUP B AND SOUTHBOUND PCMS MESSAGE GROUP C (SEE TRAFFIC CONTROL GENERAL NOTES).
2. SHIFT SOUTHBOUND TRAFFIC TO THE SOUTHBOUND LANE. CLOSE NORTHBOUND LANE WITH TYPE 3 BARRICADE AND R11-2 ROAD CLOSED SIGN. ADD CW20-3D ROAD CLOSED AHEAD SIGN 250' AHEAD OF WORK ZONE. MAINTAIN TRAFFIC IN SOUTHBOUND LANE ACCORDING TO TXDOT STANDARD TCP(2-8a)-18 (OMIT R1-2 AND CW3-2).
3. CONSTRUCT EASTERN PORTION/REMAINDER OF CULVERT 1. CONSTRUCT SUBGRADE, BASE, PAVEMENT, DRIVEWAYS, SIDE SLOPES, SIGNAGE, ETC. IN THE WORK ZONE.
4. PLACE TEMPORARY PAVEMENT MARKINGS FOR LIMITS OF PHASE I & PHASE II CONSTRUCTION.

PHASE III: RECONSTRUCTION OF SOUTHBOUND STINSON ROAD (NORTH WEST PHASE OF CONSTRUCTION)

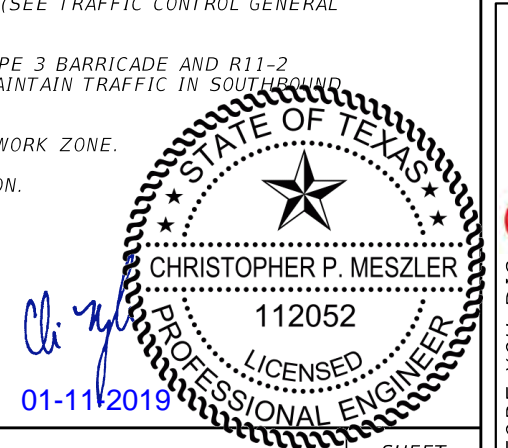
1. TWO WEEKS PRIOR TO CONSTRUCTION INSTALL ONE PCMS IN ADVANCE OF THE WORKZONE ON EACH END. USE MESSAGE GROUP A, (SEE TRAFFIC CONTROL GENERAL NOTES).
2. ADJUST NORTHBOUND PCMS TO MESSAGE GROUP B AND SOUTHBOUND PCMS TO MESSAGE GROUP C (SEE TRAFFIC CONTROL GENERAL NOTES).
3. CLOSE NORTHBOUND LANE WITH TYPE 3 BARRICADE AND R11-2 ROAD CLOSED SIGN. ADD CW20-3D ROAD CLOSED AHEAD SIGN 250' AHEAD OF WORK ZONE. MAINTAIN TRAFFIC IN SOUTHBOUND LANE ACCORDING TO TXDOT STANDARD TCP(2-8a)-18 (OMIT R1-2 AND CW3-2).
4. PLACE TEMPORARY ASPHALT ACCORDING TO TABLE ON TRAFFIC CONTROL GENERAL NOTES SHEET.
5. SHIFT SOUTHBOUND TRAFFIC TO THE NORTHBOUND LANE USING TXDOT STANDARD TCP(2-8a)-18 (OMIT R1-2 AND CW3-2). NORTHBOUND TRAFFIC DIRECTION CLOSED TO TRAFFIC. MAINTAIN TYPE 3 BARRICADE AND ROAD CLOSED SIGNS IN NORTHBOUND DIRECTION.
6. CONSTRUCT SUBGRADE, BASE, PAVEMENT, DRIVEWAYS, SIDE SLOPES, SIGNAGE, ETC. IN THE WORK ZONE.

PHASE IV: RECONSTRUCTION OF NORTHBOUND STINSON ROAD (NORTH EAST PHASE OF CONSTRUCTION)

1. MAINTAIN NORTHBOUND PCMS MESSAGE GROUP B AND SOUTHBOUND PCMS MESSAGE GROUP C (SEE TRAFFIC CONTROL GENERAL NOTES).
2. SHIFT SOUTHBOUND TRAFFIC TO THE SOUTHBOUND LANE. CLOSE NORTHBOUND LANE WITH TYPE 3 BARRICADE AND R11-2 ROAD CLOSED SIGN. ADD CW20-3D ROAD CLOSED AHEAD SIGN 250' AHEAD OF WORK ZONE. MAINTAIN TRAFFIC IN SOUTHBOUND LANE ACCORDING TO TXDOT STANDARD TCP(2-8a)-18 (OMIT R1-2 AND CW3-2).
3. CONSTRUCT SUBGRADE, BASE, PAVEMENT, DRIVEWAYS, SIDE SLOPES, SIGNAGE, ETC. IN THE WORK ZONE.
4. PLACE TEMPORARY PAVEMENT MARKINGS FOR LIMITS OF PHASE III & PHASE IV CONSTRUCTION.

PHASE V: FINAL PAVEMENT MARKINGS (TYPICAL SECTIONS NOT SHOWN)

1. APPLY FINAL PAVEMENT MARKINGS UTILIZING TXDOT STANDARD TCP(3-1)-13.



PLOTTED BY: hremeteria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:29 PM
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| DATE | REVISIONS DESCRIPTION |
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 1903 CENTRAL DRIVE, SUITE #405
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 TBPE REG. F-15243

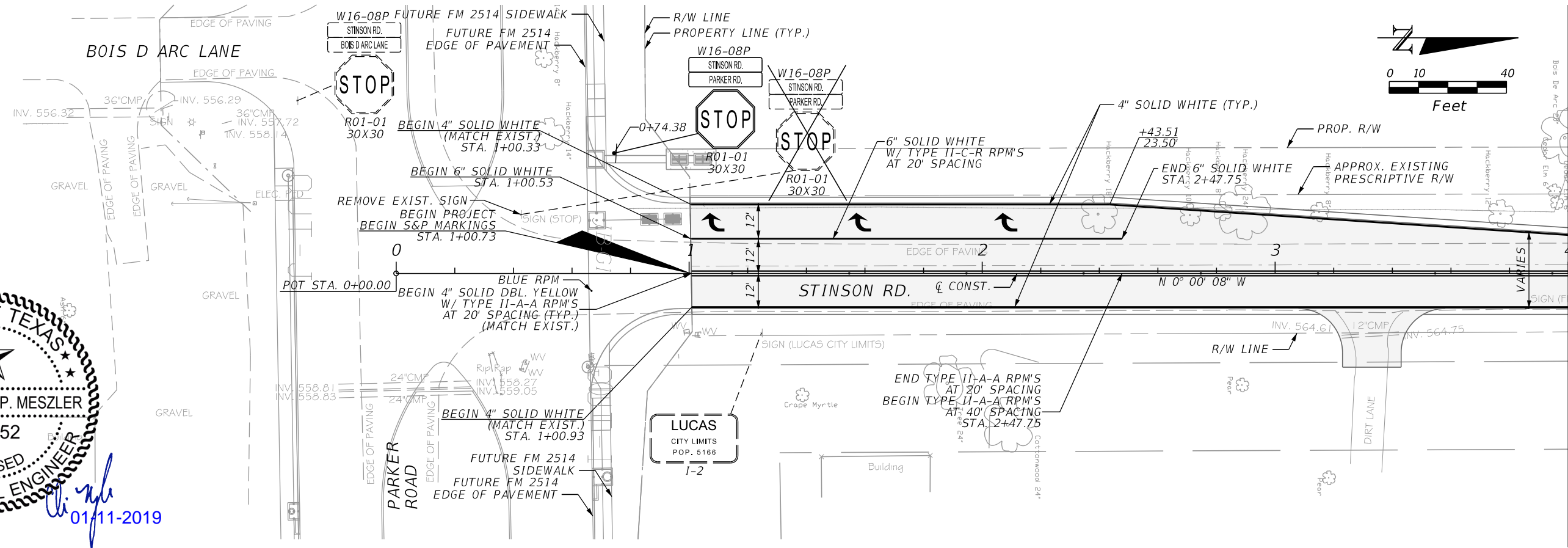
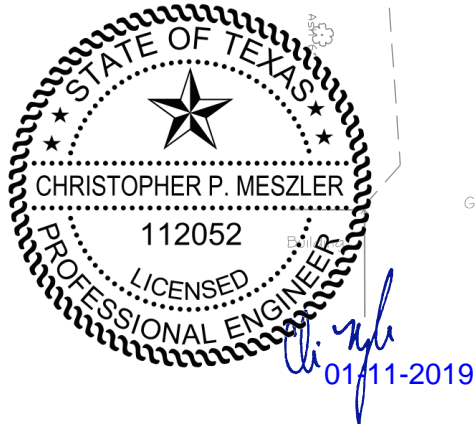


STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

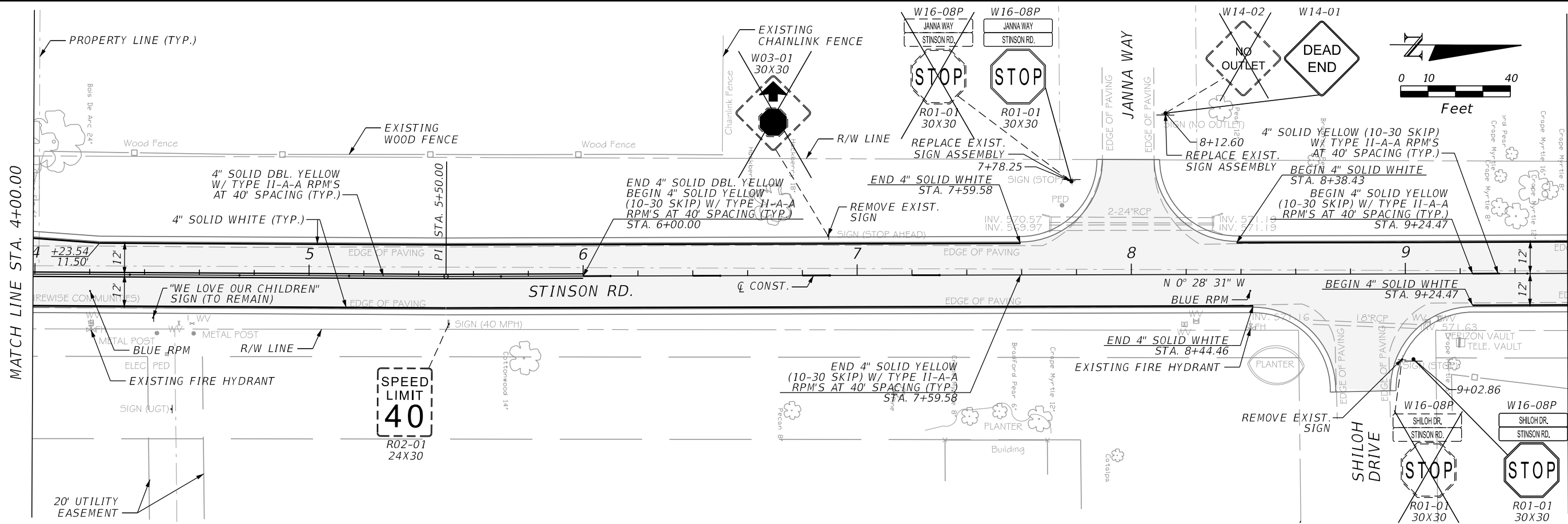
TRAFFIC CONTROL PLANS
TYPICAL SECTIONS

SHEET NO.
 36

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1155
 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL



MATCH LINE STA. 4+00.00



MATCH LINE STA. 4+00.00

MATCH LINE STA. 9+60.00

PLOTTED BY: hremperia
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:30 PM
 LOCATION: C:\Transfer\18-112 Stinson Road\18112 Stinson Plan Set\signing\PLANS\01.DGN

| REVISIONS | |
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| DATE | DESCRIPTION |
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CHRISTOPHER P. MESZLER, P.E.
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STINSON ROAD IMPROVEMENTS
 CITY OF LUCAS
 PUBLIC WORKS DEPARTMENT
 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

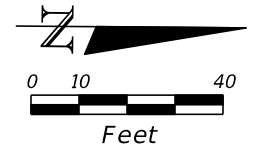
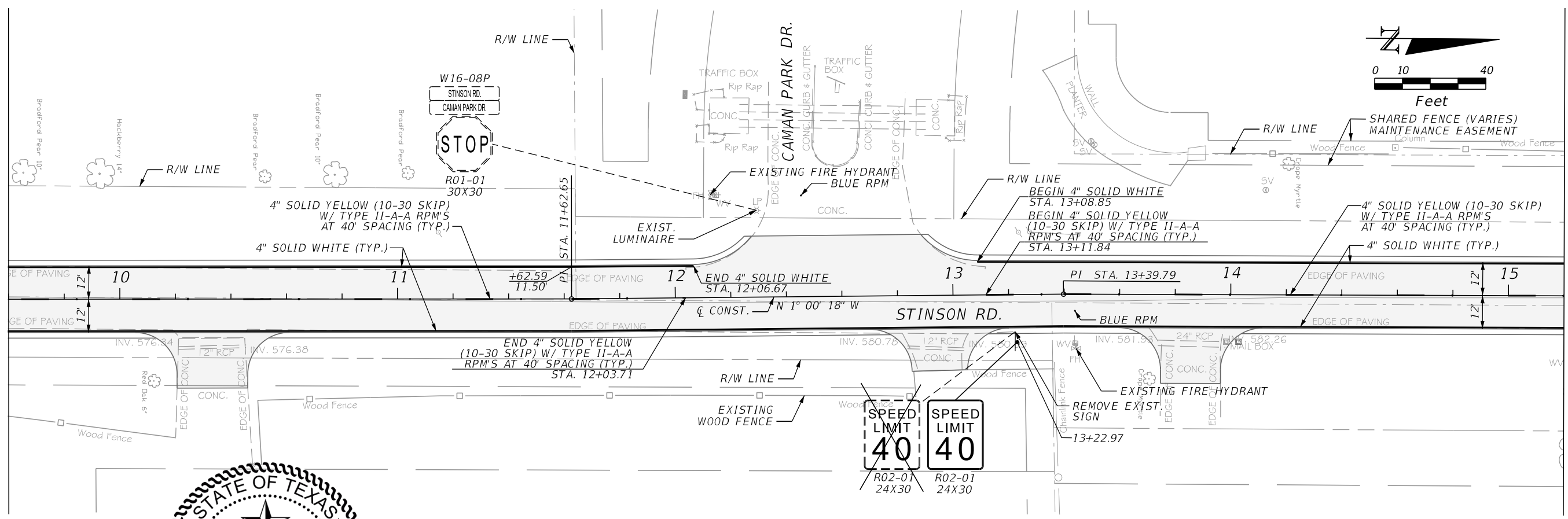
SIGNING & PAVEMENT MARKINGS

SHEET NO.
 37

CALL BEFORE YOU DIG
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1555
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL

MATCH LINE STA. 9+60.00

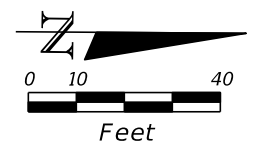
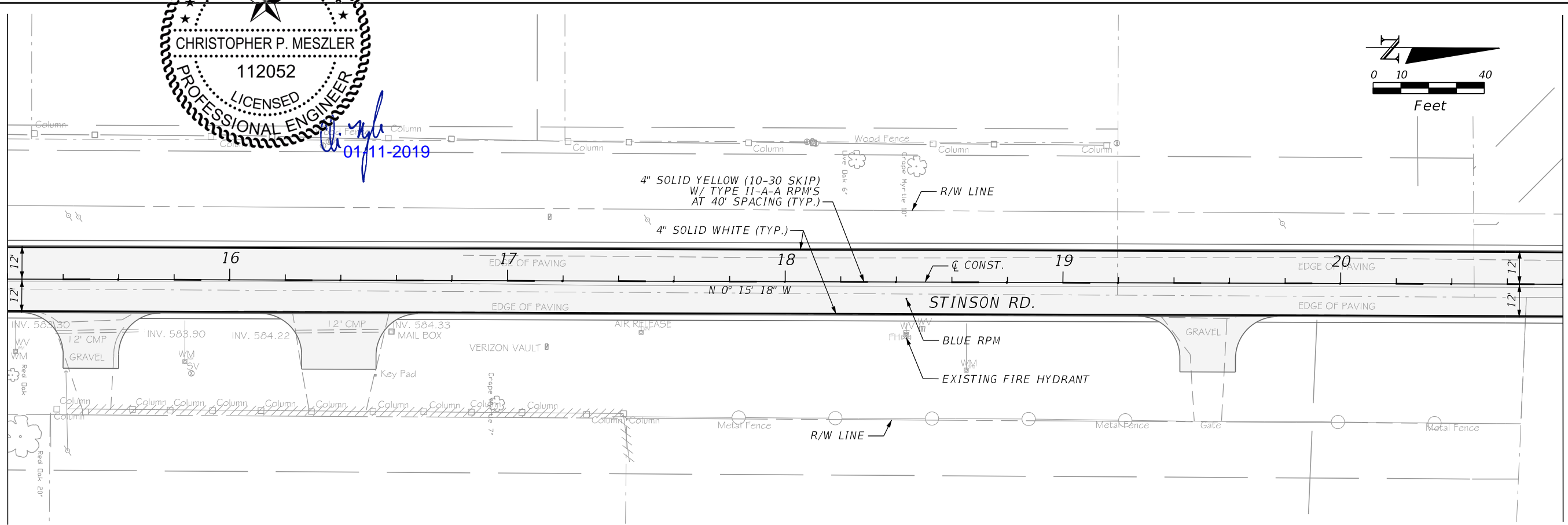
MATCH LINE STA. 15+20.00



STATE OF TEXAS
 CHRISTOPHER P. MESZLER
 112052
 LICENSED PROFESSIONAL ENGINEER
 01/11/2019

MATCH LINE STA. 15+20.00

MATCH LINE STA. 20+80.00



PLOTTED BY: hrementeria
 PLOT DATE: 1/11/2019
 LAST SAVED: 12:19:32 PM
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| DATE | REVISIONS DESCRIPTION |
|------|-----------------------|
| | |



CHRISTOPHER P. MESZLER, P.E.
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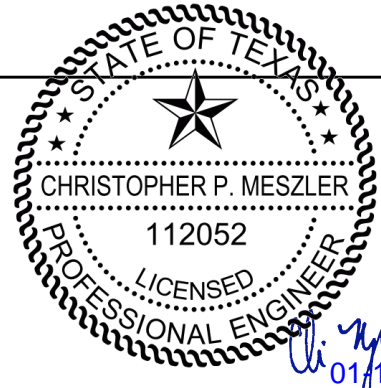
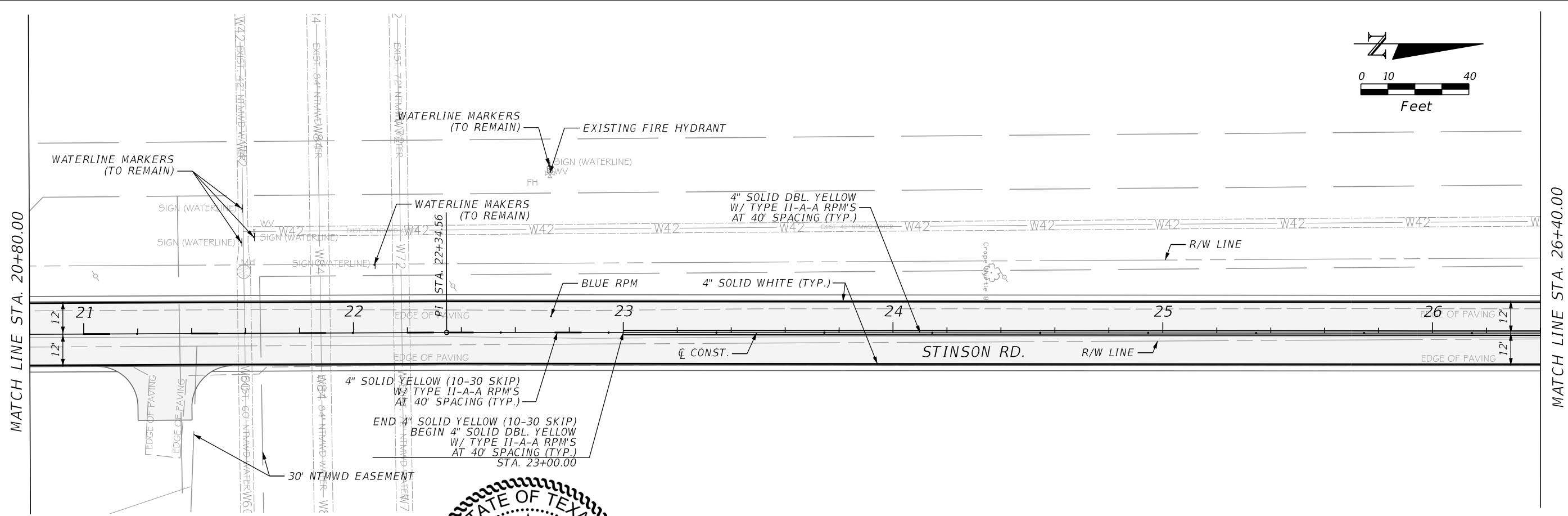
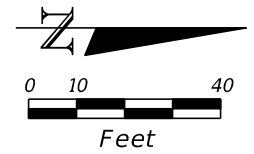


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 LUCAS, TX. 75002

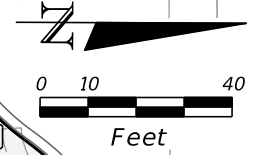
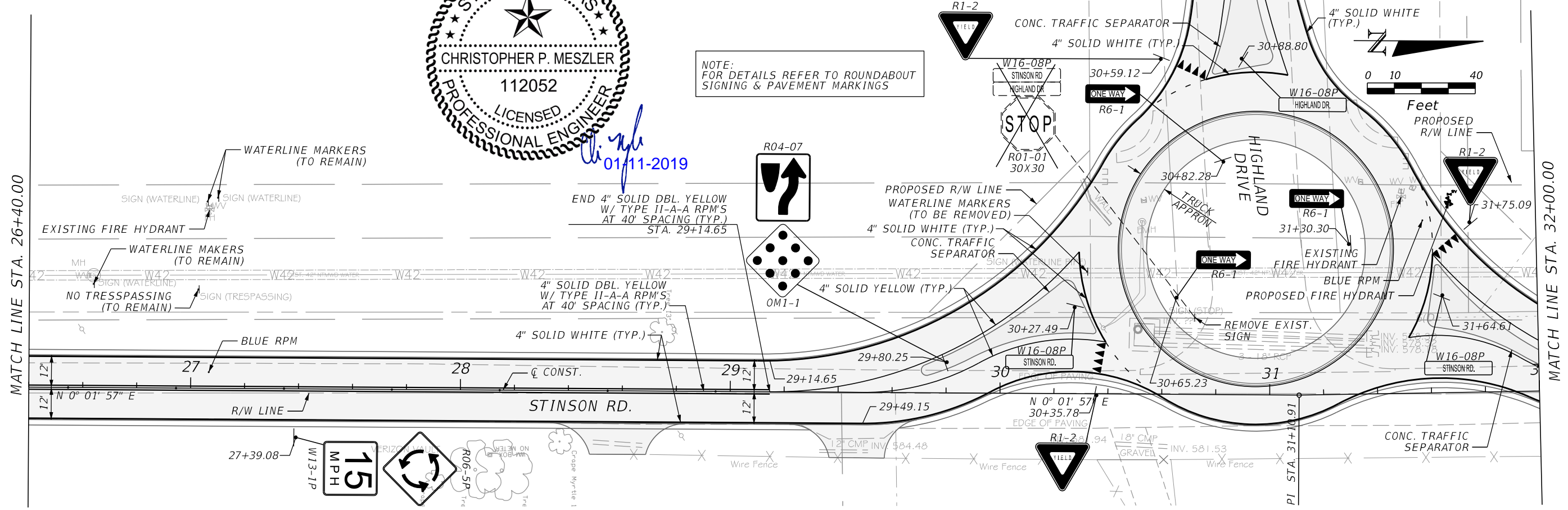
SIGNING & PAVEMENT MARKINGS

SHEET NO.
38

CALL BEFORE YOU DIG
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1155



NOTE:
FOR DETAILS REFER TO ROUNDABOUT
SIGNING & PAVEMENT MARKINGS



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STINSON ROAD IMPROVEMENTS
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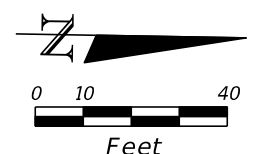
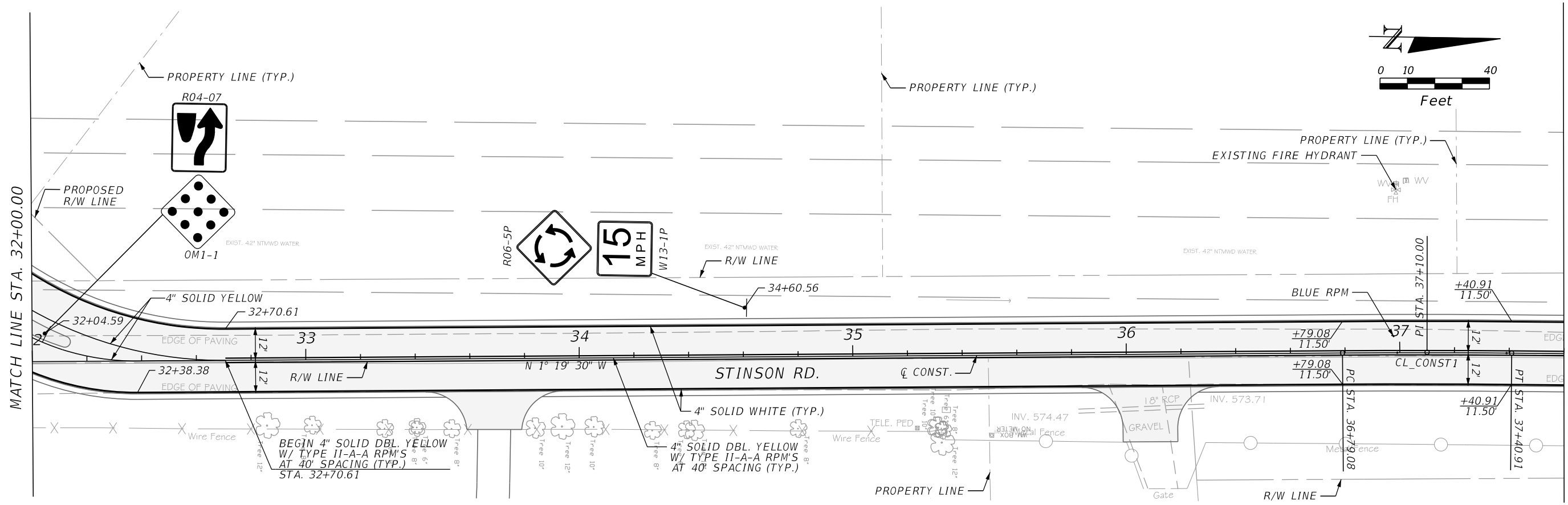
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SHEET NO.
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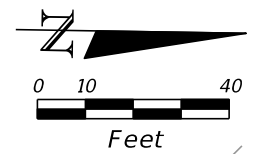
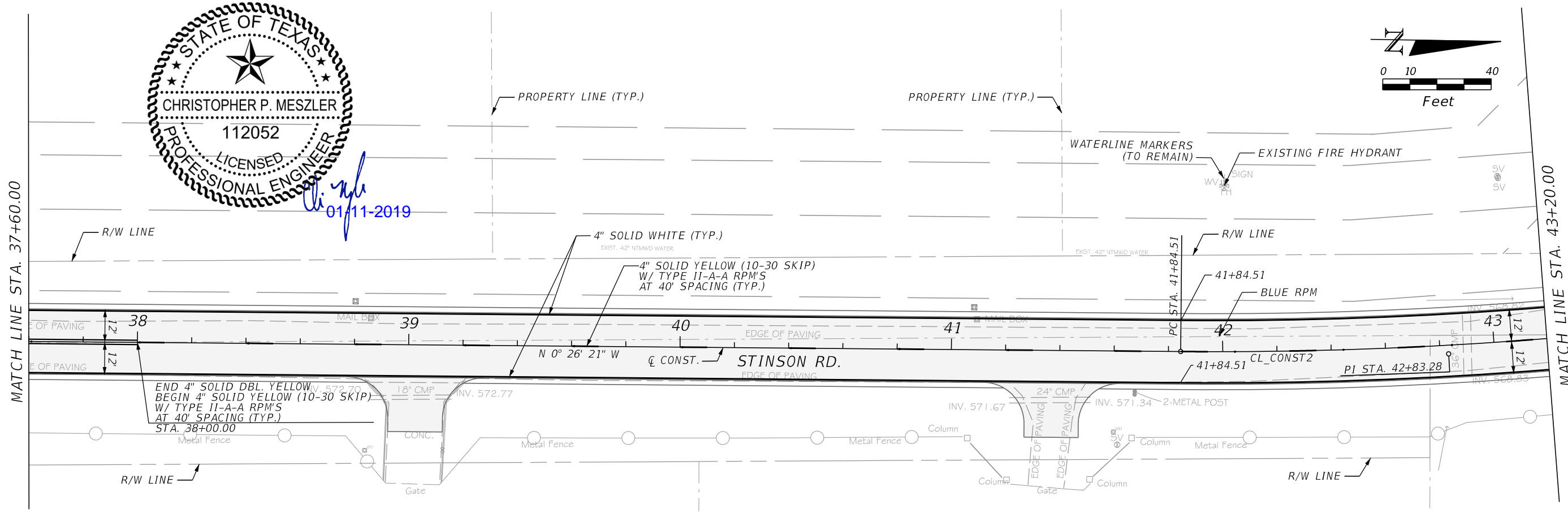
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MATCH LINE STA. 37+60.00



MATCH LINE STA. 37+60.00

MATCH LINE STA. 43+20.00



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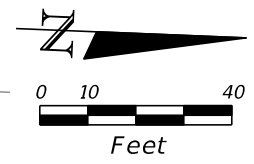
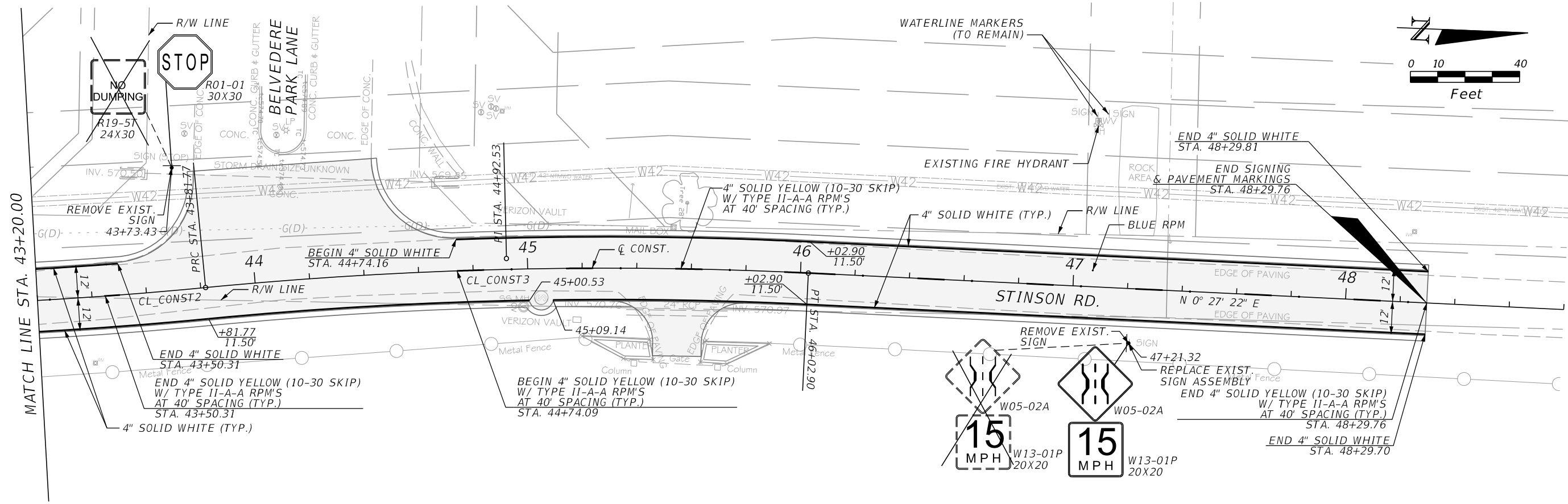


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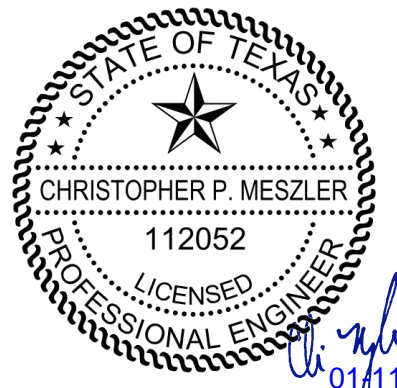
SIGNING & PAVEMENT MARKINGS

SHEET NO.
 40

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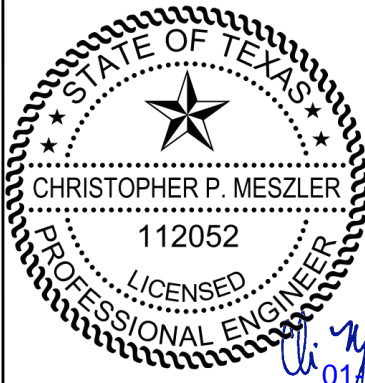


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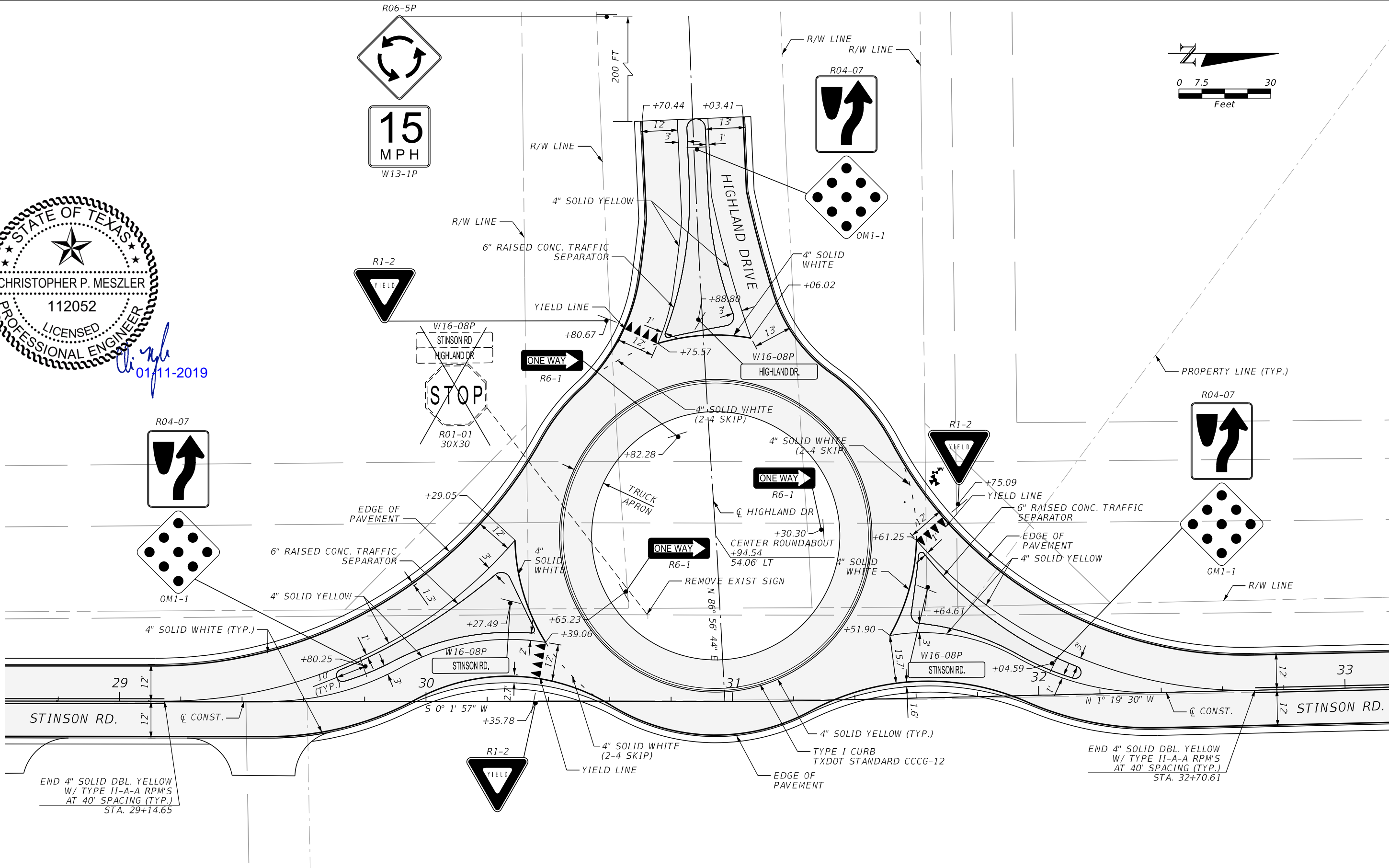
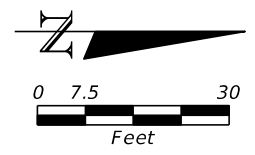
SIGNING & PAVEMENT MARKINGS

SHEET NO.
 41

CALL BEFORE YOU DIG
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 TEXAS ONE CALL SYSTEM
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**ROUNDABOUT
 SIGNING & PAVEMENT MARKINGS**

SHEET NO.
 42

CALL BEFORE YOU DIG
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 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
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A. GENERAL SITE DATA

B. EROSION AND SEDIMENT CONTROLS

C. OTHER REQUIREMENTS & PRACTICES

1. **PROJECT LIMITS:** *Stinson Road from Parker Road to North of Bristol Park*
 Begin Project Coordinates : Latitude (N): 33.055085 Longitude (W): -96.585642

2. **PROJECT SITE MAPS:**

- * Project Location Map: The Title Sheet
- * Drainage Patterns: Drainage Area Maps (Sheet 2)
- * Slopes Anticipated After Major Gradings or Areas of Soil Disturbance: Typical Sections (Sheets 8-9)
- * Location of Erosion and Sediment Controls: SW3P Site Maps (Sheets 44-48)
- * Surface Waters and Discharge Locations: Drainage and Culvert Layouts (Sheet 2)
- * Project Specific Location(s) (PSL): To be determined by the project construction personnel. Location(s) shown on SW3P Site Map (if PSL location(s) is within one mile of project) and information located in project SW3P Binder (Reference Item #10 below).

3. **PROJECT DESCRIPTION:**

Paving and Drainage Improvements

4. **MAJOR SOIL DISTURBING ACTIVITIES:**

Pavement removal, grading and earthwork, excavation from culvert/side drains

5. **EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:**

The soils encountered in the borings are essentially clayey soils. Beneath the asphalt pavement structure dark brown to brown clay was encountered and remained visible to a depth of 2 to 4 feet, except for some boring locations light brown silty clayey sand (fill) was visible to a depth of 2 feet. Next, we encountered a combination of dark brown, brown and tan clay to a depth of 10 feet; the maximum depth explored. Pervious soils are 95% covered with natural grasses.

6. **TOTAL PROJECT AREA:** 11.00 ACRES

7. **TOTAL AREA TO BE DISTURBED:** 7.01 ACRES (64 %)

8. **WEIGHTED RUNOFF COEFFICIENT**

BEFORE CONSTRUCTION: 0.55
 AFTER CONSTRUCTION: 0.55

9. **NAME OF RECEIVING WATERS:**

Muddy Creek

10. **PROJECT SW3P BINDER:**

A. For projects disturbing one to five acres, the City will maintain a SW3P Binder at the project field office (if there is not a project field office, should be kept at the City Hall) which contains the following: Index Sheet, TCEQ Signature Authority, TxDOT's and Contractor's Small Construction Site Notice, SW3P Inspector Qualification Statements, EPIC Sheet, SW3P Sheet, Site Location Maps, Inspection and Maintenance Reports (Form 2118), Construction Stage Gate Checklist(s) (CSGC), Stored Material Lists specifying associated control measures and the Appendix which contains the TPDES Construction General Permit, TxDOT and Contractor MS4 Operator Notification(s) and the Construction PSL Permits per all applicable requirements.

B. For projects disturbing 5 acres or more, the City will follow the actions listed in (10.A.) above with the addition of the following: The City and Contractor Notice Of Intent (N.O.I.) and Fee Payment Form, the City and Contractor Large Construction Site Notice (to be used instead of Small Site Notice), and TPDES Permit Coverage Notice.

C. For projects disturbing less than one acre, actions described in (10.A.) and (10.B.) above are not required. Acreage is calculated by adding Total Area To Be Disturbed Acres on project (See #7 above) and the PSL(s) acreage located within one mile of project.

1. **SOIL STABILIZATION PRACTICES:**
 (SELECT T = TEMPORARY OR P = PERMANENT, AS APPLICABLE)

- TEMPORARY SEEDING
- MULCHING (HAY OR STRAW)
- BUFFER ZONES
- PLANTING
- SEEDING
- SODDING
- PRESERVATION OF NATURAL RESOURCES
- FLEXIBLE CHANNEL LINER
- RIGID CHANNEL LINER
- SOIL RETENTION BLANKET
- COMPOST MANUFACTURED TOPSOIL
- VERTICAL TRACKING
- OTHER: (Specify Practice)

2. **STRUCTURAL PRACTICES:**
 (SELECT T = TEMPORARY OR P = PERMANENT, AS APPLICABLE)

- SILT FENCES
- EROSION CONTROL LOGS
- EROSION CONTROL COMPOST BERMS (LOW VELOCITY)
- ROCK FILTER DAMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- DIVERSION DIKE AND SWALE COMBINATIONS
- PIPE SLOPE DRAINS
- PAVED FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES
- OTHER: (Specify Practice)

NOTE: TOP OF BMP'S SHOULD NOT BE HIGHER THAN ROADWAY ELEVATION AS NOT TO FLOOD ROADWAY UNLESS PRIOR APPROVAL FROM ENGINEER IS OBTAINED.

3. **STORM WATER MANAGEMENT:**

A. Storm water drainage will be provided by roadside ditches and culverts which carry drainage within the R.O.W. and easements to the lows within the roadway and project site which drains to natural facilities.

B. Other permanent erosion controls include hydraulic design to limit structure outlet velocities and grading design generally consisting of 3 :1 or flatter slopes with permanent vegetative cover.

4. **STORM WATER MANAGEMENT ACTIVITIES: (SEQUENCE OF CONSTRUCTION)**

Roadside ditches, driveway culverts, and crossing culverts will be constructed within the workzone for each phase of construction as shown in the Traffic Control Plans.

5. **NON-STORM WATER DISCHARGES:**

Filter non-storm water discharges, or hold in retention basins, before being allowed to mix with storm water. These discharges consist of, but not limited to, non-polluted ground water, spring water, foundation or footing drain water, water used for dust control or pavement washing and vehicle washwater containing no detergents.

1. **MAINTENANCE:**

Maintain all erosion and sediment controls in good working order. Perform any necessary cleaning/repairs/replacements at the earliest possible date prior to next rain event, but no later than 7 calendar days. Ensure the surrounding ground has dried sufficiently to prevent damage from equipment. "Too Wet" is the only reason for not adhering to timeframes described. When construction activities permanently or temporarily cease and are not expected to resume for 14 or more days on a disturbed portion of the site, stabilization measures must be initiated immediately.

2. **INSPECTION:**

A City authorized Inspector will perform a regularly scheduled SW3P inspection every 7 calendar days. An Inspection and Maintenance Report, signed by the City Inspector and the Contractor, will be filed for each inspection. Revise/clean/repair/replace each BMP control device in accordance with the current Field Inspection and Maintenance Report (Form 2118) and Item 1 (Maintenance) above.

3. **WASTE MATERIALS:**

On a daily basis, or as may be directed, collect all waste materials, trash and debris from the construction site and deposit into a metal dumpster having a secure cover and which meets all state and local city solid waste management requirements. Empty the dumpster as required by regulation, or as may be directed, at a local approved landfill site. Do not bury construction waste on the construction project site.

4. **HAZARDOUS WASTE & SPILL REPORTING:**

As a minimum, any products in the following categories are considered to be hazardous: Paints, Acids, Solvents, Fuels, Asphalt Products, Chemical Additives for Soil Stabilization, and Concrete Curing Compounds or Additives. When storing hazardous material on the project site, or at a Project Specific Location, take all practicable precaution to prevent and/or contain any spillage of these materials. In the event of a spill, contact the spill coordinator immediately.

5. **SANITARY WASTE:**

Use a licensed sanitary waste management contractor to collect all sanitary waste from portable units as may be required by local regulation, or as directed.

6. **CONSTRUCTION VEHICLE TRACKING:**

On a regular basis, or as may be directed, dampen haul roads for dust control and construct construction entrances/exits. Provide for a motorized broom or vacuum type sweeper to be available on a daily basis, or as may be directed, to remove sediment from paved roadways on project, abutting and traversing the project site.

7. **MANAGEMENT PRACTICES:**

A. Construct disposal areas, stockpiles, haul roads and PSL's in a manner that will minimize and control the amount of sediment that may enter receiving waters. Do not locate disposal areas in any wetland, waterbody or streambed.

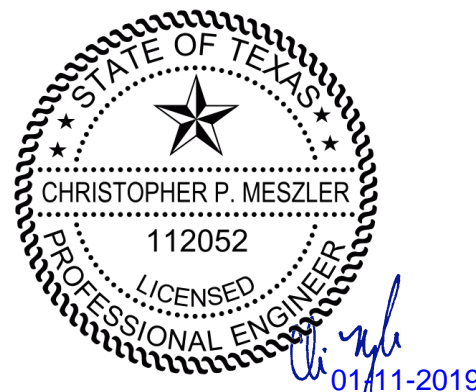
B. Locate construction staging areas, vehicle maintenance and PSL's areas in a manner to minimize the runoff of pollutants.

C. When working in or near a wetland, install and maintain operating soil erosion and sediment controls at all times during construction and isolate the work from the wetland.

D. Clear all waterways as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, debris or other obstructions placed during construction operations that are not a part of the finished work.

E. Procedures and/or practices should be taken to control dust.

F. Sediment to be removed from roadways daily or when work begins after weather events if construction activities have ceased due to weather event.



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 TPBE REG. F-15243



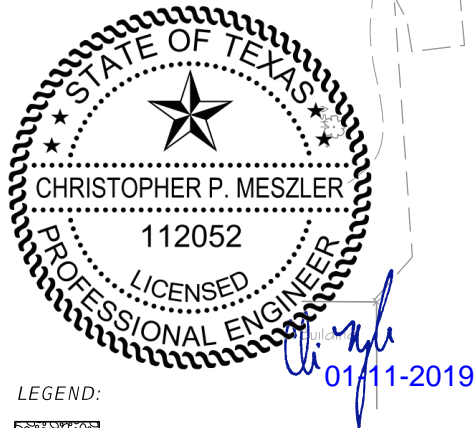
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 665 COUNTRY CLUB ROAD
 LUCAS, TX. 75002

**STORM WATER POLLUTION
 PREVENTION PLAN (SW3P)**

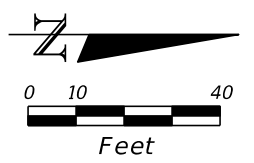
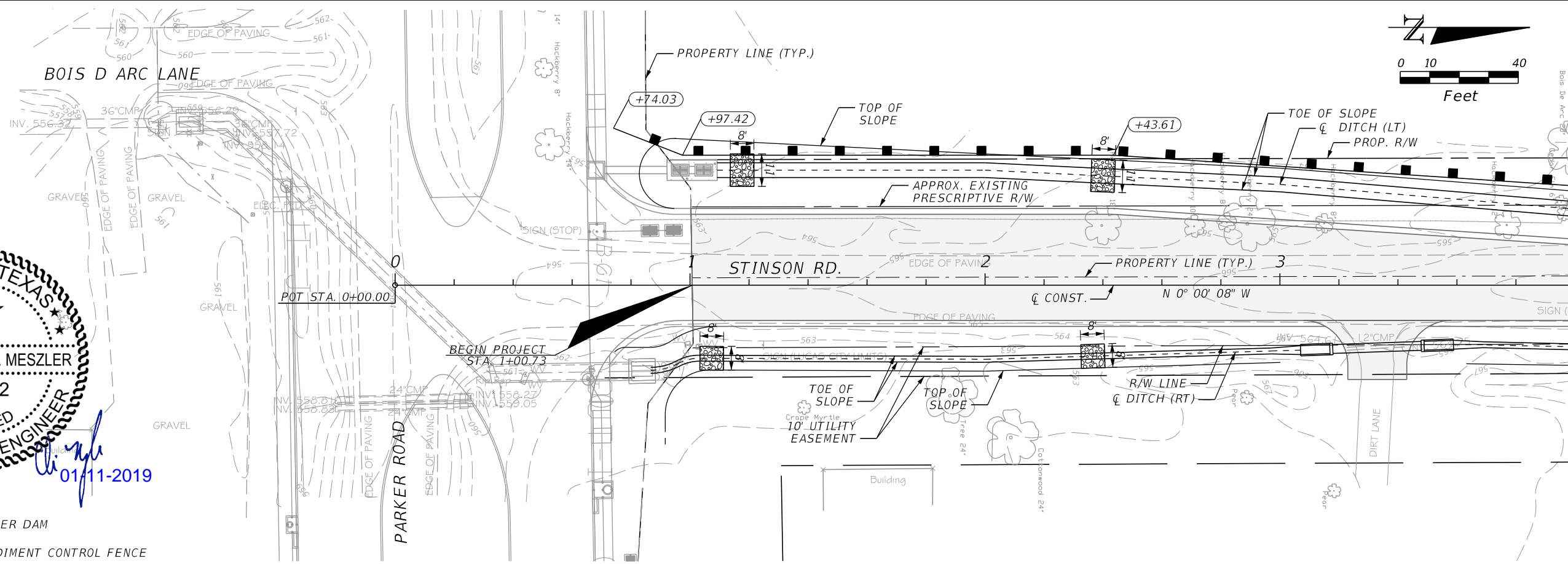
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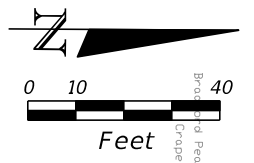
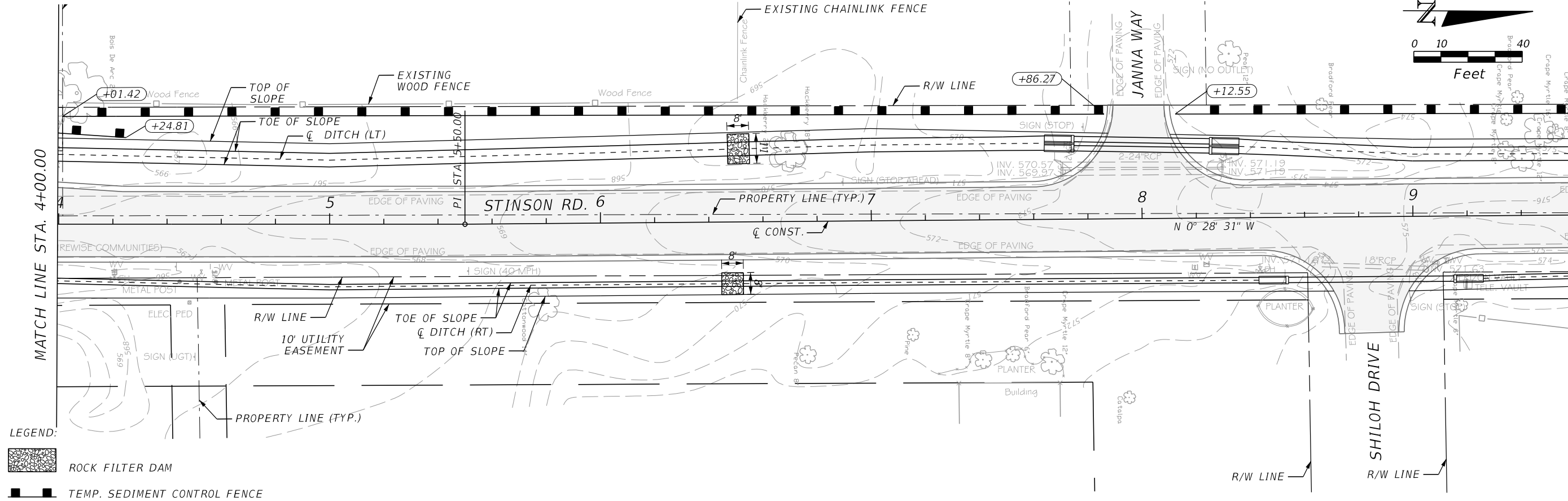
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 OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 1-800-DIG-1155



LEGEND:
 ROCK FILTER DAM
 TEMP. SEDIMENT CONTROL FENCE



MATCH LINE STA. 4+00.00



MATCH LINE STA. 9+60.00

LEGEND:
 ROCK FILTER DAM
 TEMP. SEDIMENT CONTROL FENCE

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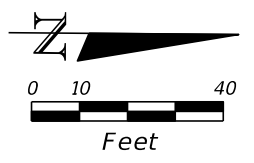
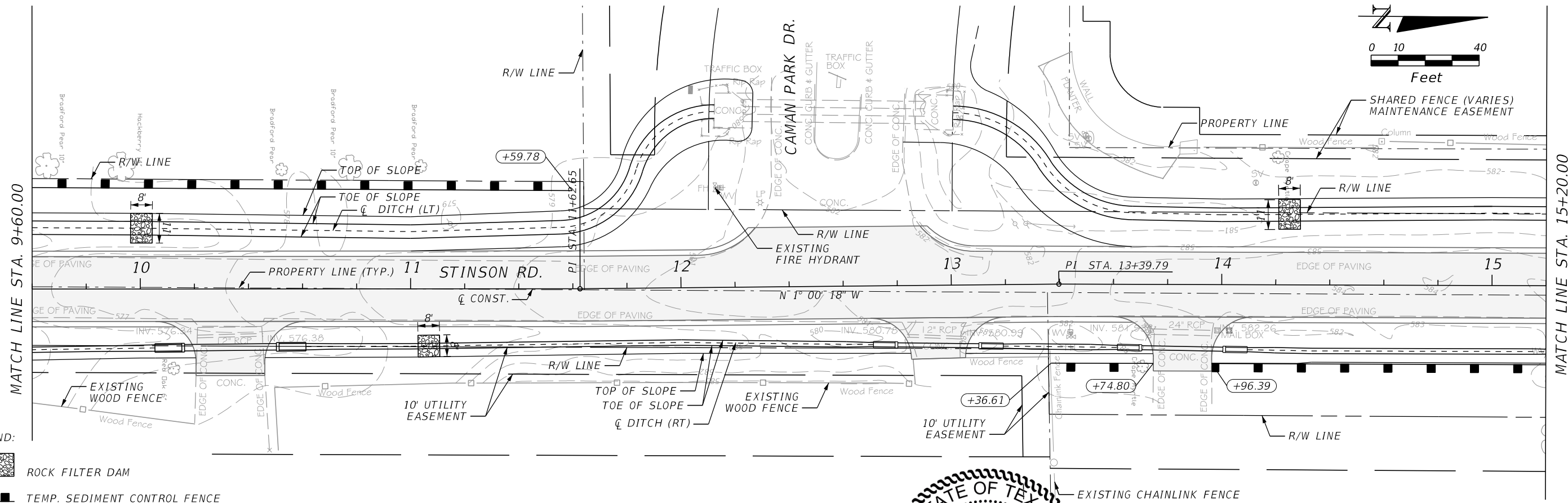
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EROSION CONTROL PLAN

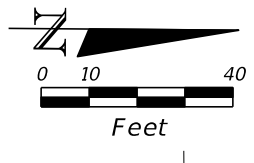
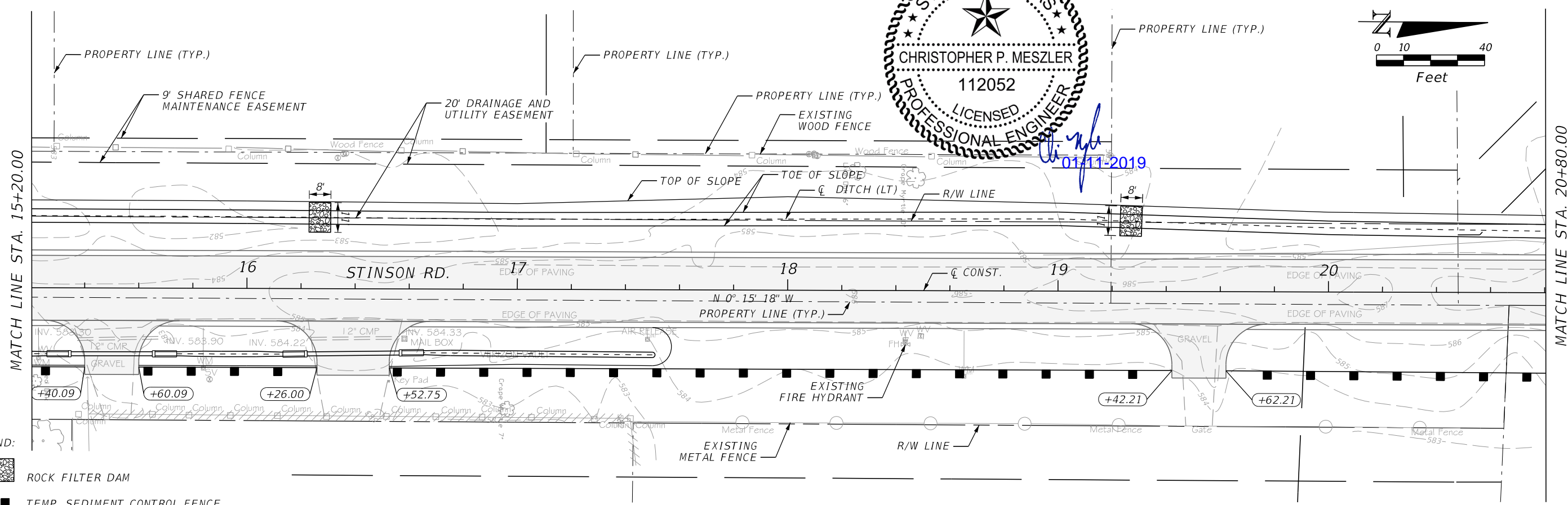
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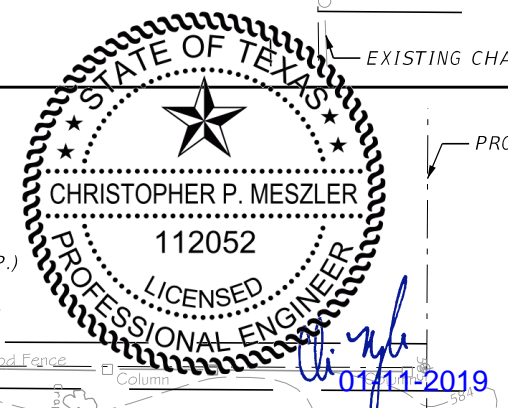
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- LEGEND:
- ROCK FILTER DAM
 - TEMP. SEDIMENT CONTROL FENCE



- LEGEND:
- ROCK FILTER DAM
 - TEMP. SEDIMENT CONTROL FENCE



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EROSION CONTROL PLAN

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