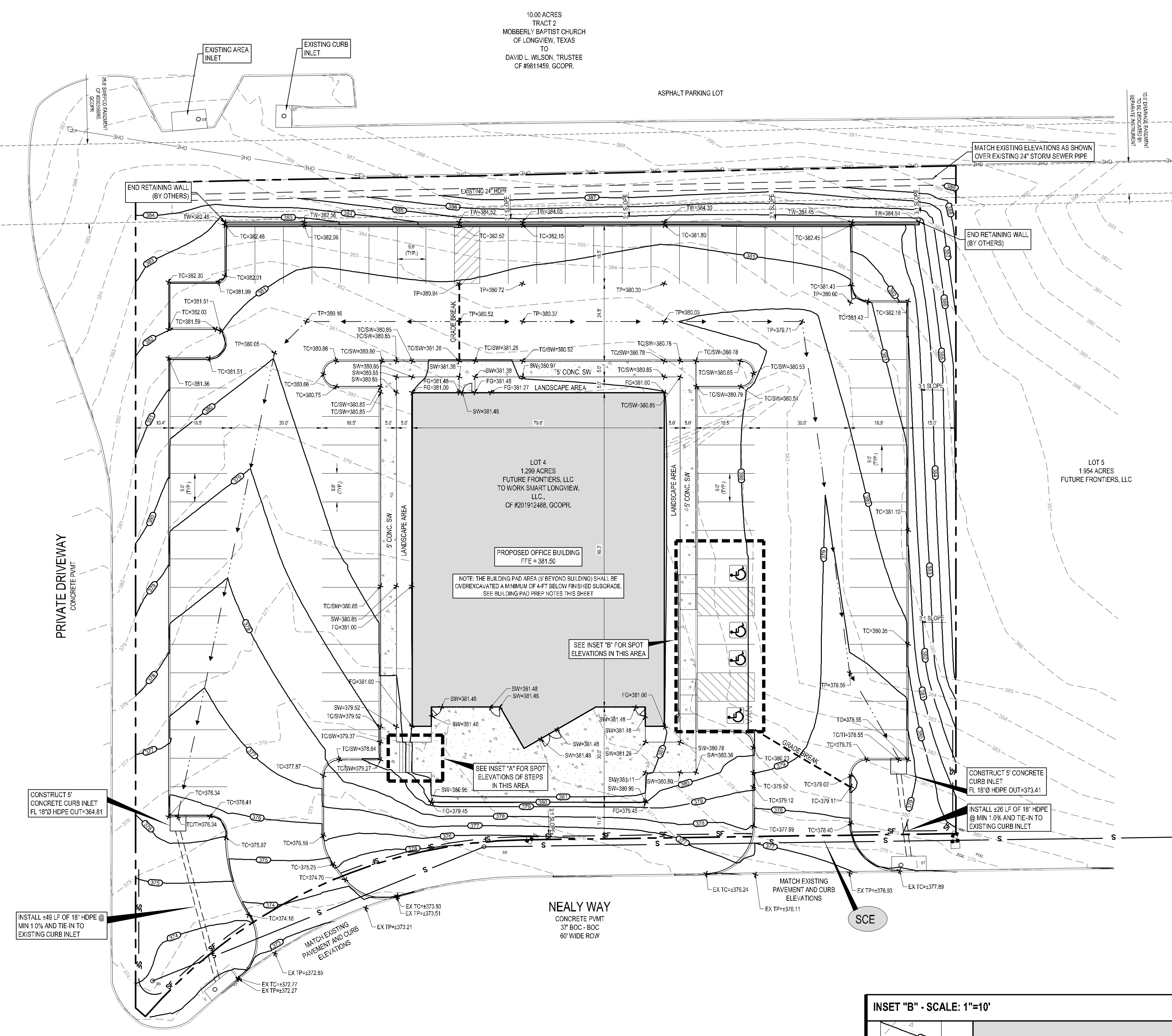
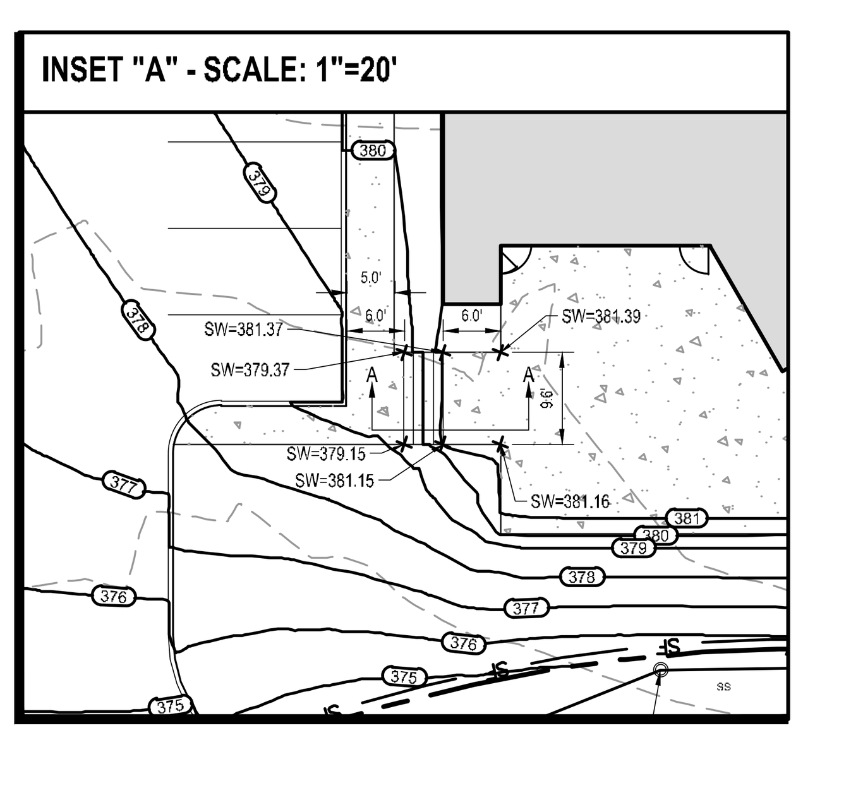
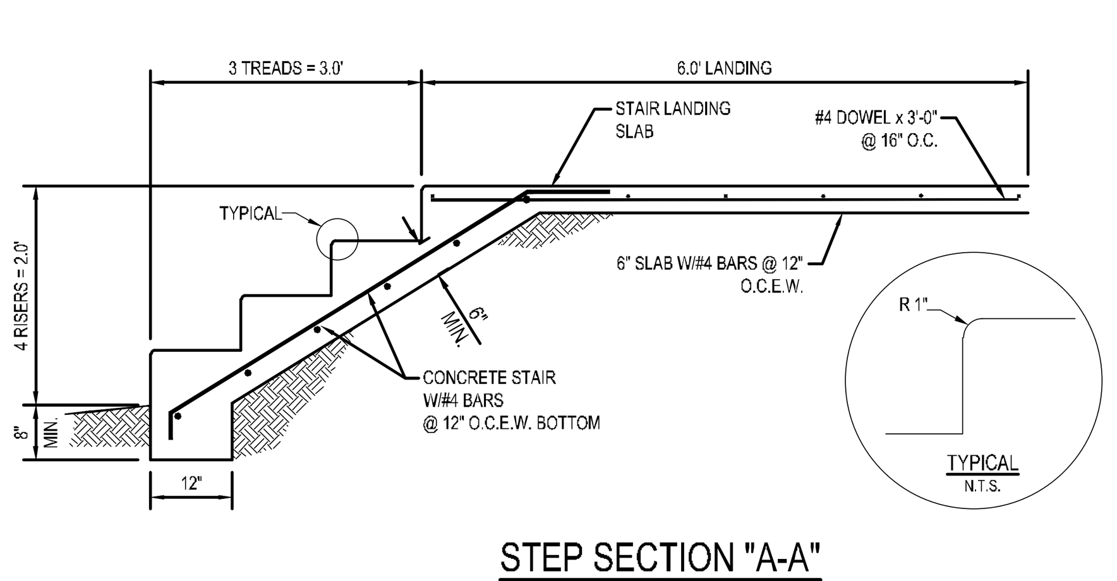
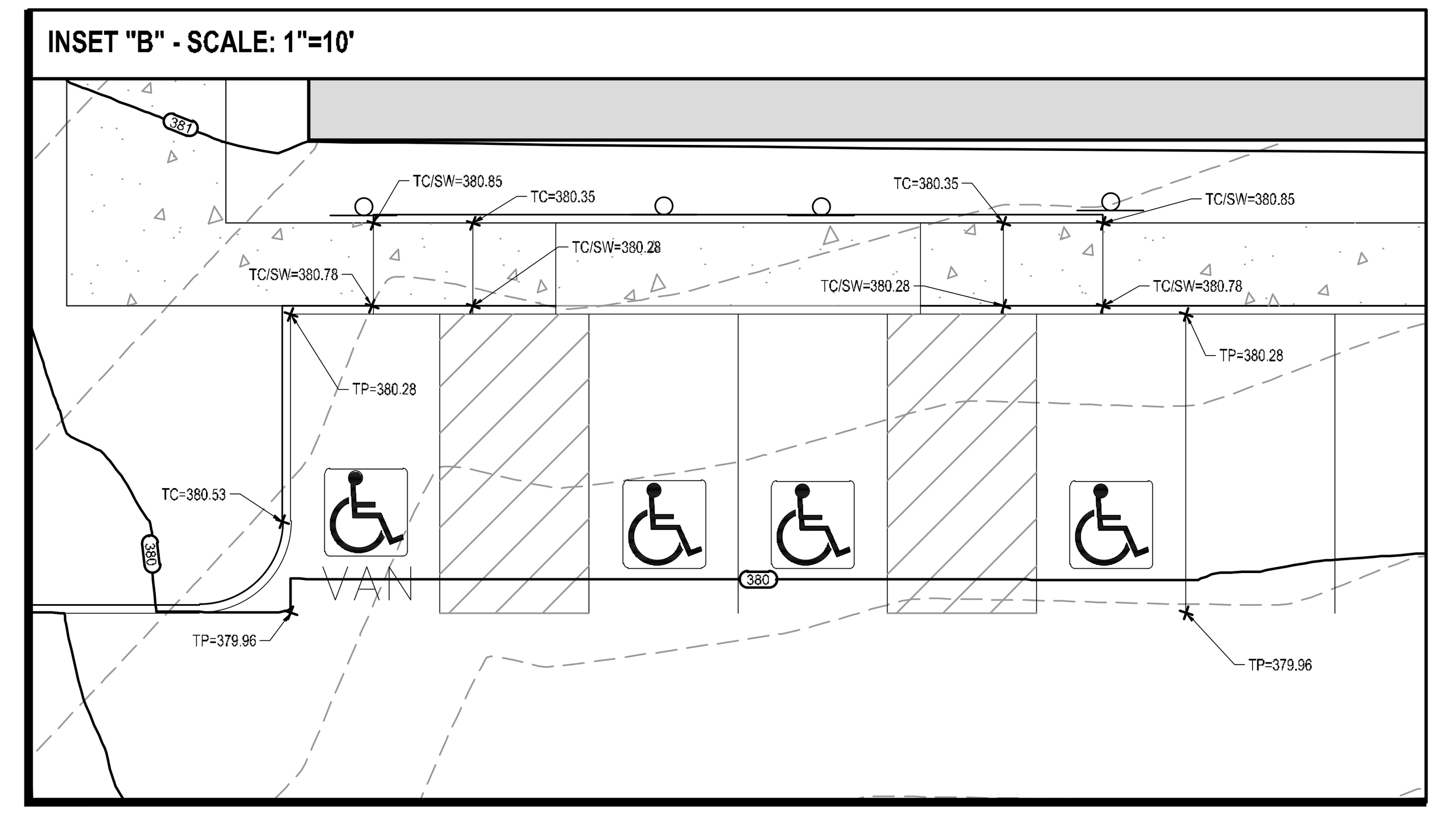



INSET "A" - SCALE: 1"=20'


STEP SECTION "A-A"
N.T.S.


INSET "B" - SCALE: 1"=10'

Know what's **below.**
Call before you dig.

0 10' 20' 40'
1"=20'

LEGEND

TC	TOP OF CURB
TP	TOP OF PAVEMENT
TW	TOP OF WALL
TI	TOP OF INLET
TG	TOP OF GRATE
SW	SIDEWALK
FG	FINISHED GRADE
TC=340.38	PROPOSED SPOT ELEVATION
335	EXISTING CONTOUR
335	PROPOSED CONTOUR
SCE	STABILIZED CONSTRUCTION ENTRANCE
SF	APPROXIMATE LOCATION OF SILT FENCE
	PROPOSED FLOWLINE
	EXISTING STORM SEWER

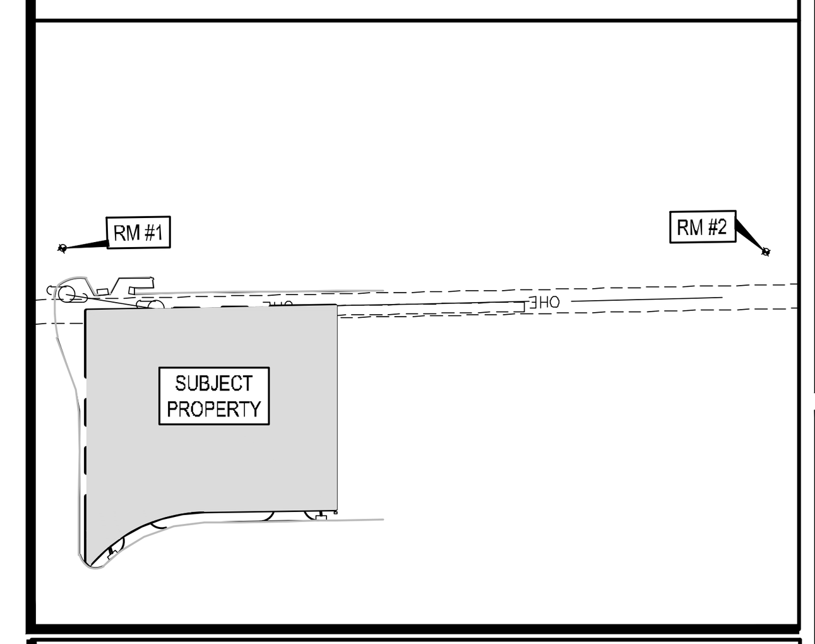
REFERENCE MARKERS

IF THE CONTRACTOR RELOCATES REFERENCE MARKERS WITH A NEW REFERENCE MARKER, IT SHALL BE LOCATED WITHIN A HORIZONTAL AND VERTICAL TOLERANCE OF 0.10'

RM# 1 — 60D NAIL
NORTHING - 6899951.7100
EASTING - 3133500.0550
ELEVATION - 387.5700

RM# 2 — 60D NAIL
NORTHING - 6899285.7660
EASTING - 3133196.4070
ELEVATION - 408.4880

REFERENCE MARKERS - SCALE: 1"=200'



CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS PUT ON NOTICE THAT THERE MAY BE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, SUCH AS WATER, SEWER, GAS, PIPELINE, TELEPHONE AND ELECTRIC, SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN ON THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENT SHOWN ON THE PLANS.

TEXAS ONE CALL SYSTEM

AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

INSPECTIONS/CERTIFICATIONS NOTE

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY LOCAL CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO SUBSTANTIAL PROJECT COMPLETION.

PERMITS NOTE

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY FEDERAL, STATE, OR LOCAL CODES AND/OR UTILITY SERVICE COMPANIES PRIOR TO START OF CONSTRUCTION.

TRAFFIC CONTROL NOTE

GUIDELINES SET FORTH IN PART VI "STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS" OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

TOPOGRAPHIC SURVEY NOTE

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS PREPARED BY JOHNSON & PACE INCORPORATED. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW. THE ENGINEER'S SEAL ON THESE PLANS DOES NOT APPLY TO THE PROPERTY BOUNDARY INFORMATION SHOWN HEREON.

GENERAL GRADING NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
2. ALL CUT OR FILL SLOPES SHALL BE 4:1 MAXIMUM UNLESS OTHERWISE NOTED.
3. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 4 INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREAS SHALL THEN BE SODDED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES, 3:1 OR STEEPER. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. EXISTING GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT
5. PROPOSED GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT.
6. CONTRACTOR SHALL ADJUST GRADES ADJACENT TO EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

BUILDING PAD PREPARATION

BASED ON THE GEOTECHNICAL EVALUATION PERFORMED BY GEOCONSULTANTS, LLC. DATED MAY 8, 2019, AFTER STRIPPING THE SITE, THE BUILDING PAD SHOULD BE CUT TO AN ELEVATION WHICH ALLOWS THE PLACEMENT OF AT LEAST FOUR (4) FEET OF DENSITY APPROVED SELECT FILL BELOW THE FINAL SUBGRADE ELEVATION OF THE FLOOR SLAB. THE SLAB CUSHION MATERIAL SHOULD NOT BE CONSIDERED AS A PORTION OF THE SELECT FILL THICKNESS. THE SELECT FILL BUILDING PAD SHOULD EXTEND AT LEAST FIVE (5) FEET BEYOND THE EDGE OF THE BUILDING. A PORTION OF THE FAT CLAY SUBGRADE SHOULD BE STOCKPILED FOR USE AS A NATURAL MOISTURE BARRIER BELOW LANDSCAPED AREAS AND AREAS EXPOSED TO RAINFALL OR RUNOFF.

AFTER STRIPPING AND UNDERCUTTING, AS REQUIRED BY THE GRADING PLAN (THIS SHEET) AND OVEREXCAVATION AS REQUIRED HEREIN, THE BUILDING AREA SHOULD BE PROOF ROLLED WITH A HEAVY, LOADED PNEUMATIC-TIRED VEHICLE SUCH AS A 20 TO 25 TON LOADED DUMP TRUCK. IT IS RECOMMENDED THAT ALL AREAS BENEATH THE FLOOR SLAB BE PROOF ROLLED TO IDENTIFY LOOSE OR SOFT SOILS. ALL PROOF ROLLING AND UNDERCUTTING ACTIVITIES SHOULD BE WITNESSED BY GEOCONSULTANTS OR AN AUTHORIZED REPRESENTATIVE AND SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER. ANY WEAK AREAS WHICH YIELD UNDER PROOF ROLL, OR ANY AREAS WITH A TENDENCY TO PUMP, SHOULD BE MITIGATED. SUCH MITIGATION MAY INCLUDE:
1. OVEREXCAVATION AND BACKFILLING,
2. REPROCESSING TO REMOVE MOISTURE,
3. CHEMICAL MODIFICATION WITH LIME OR CEMENTITIOUS ADMIXTURES, OR
4. INSTALLATION OF GEOTEXTILES.

IN THE EVENT SUCH MITIGATION IS REQUIRED, THE GEOTECHNICAL ENGINEER SHOULD BE CONTACTED TO DESIGN AN APPROPRIATE PROCEDURE.

AFTER STRIPPING, EXCAVATING WHERE REQUIRED, AND PROOF ROLLING BUT PRIOR TO PLACING FILL, THE EXPOSED SOILS SHOULD BE SCARIFIED AND THEN PROCESSED TO A MOISTURE CONTENT BETWEEN ONE PERCENTAGE POINT BELOW (-1%) TO THREE PERCENTAGE POINTS ABOVE (+3%) THE STANDARD PROCTOR OPTIMUM. THE SUBGRADE SOILS SHOULD BE RECOMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE STANDARD PROCTOR (ASTM D 698) MAXIMUM DRY DENSITY FOR A DEPTH OF AT LEAST EIGHT (8) INCHES BELOW THE SURFACE.

SELECT FILL PREPARATION

AFTER THE SUBGRADE HAS BEEN PREPARED AND INSPECTED, FILL PLACEMENT MAY BEGIN. SELECT FILL MATERIAL SHOULD HAVE THE FOLLOWING CHARACTERISTICS:
1. FREE OF ORGANIC OR OTHER DELETERIOUS MATERIALS,
2. HOMOGENEOUS MIXTURE,
3. MAXIMUM PARTICLE SIZE OF THREE (3) INCHES,
4. LIQUID LIMIT LESS THAN 35,
5. PLASTICITY INDEX BETWEEN EIGHT (8) AND TWENTY (20), AND
6. CONSIST OF SILTY-CLAYEY SANDS (SM-SC), LOW PLASTICITY SANDY CLAYS (CL), OR CLAYEY SANDS (SC) AS DEFINED BY THE UNIFIED SOIL CLASSIFICATION SYSTEM.
7. NO MORE THAN 70% PASSING THE NO. 200 SIEVE.

IF A FINE-GRAINED MATERIAL IS USED FOR FILL, VERY CLOSE MOISTURE CONTENT CONTROL WILL BE REQUIRED TO ACHIEVE THE RECOMMENDED DEGREE OF COMPACTION.

BASED ON THE GEOTECHNICAL REPORT, THE MAJORITY OF THE ONSITE SURFICIAL MATERIAL DOES NOT COMPLY WITH THE SELECT FILL CRITERIA AND SHOULD NOT BE USED IN SELECT FILL APPLICATIONS. ALL SELECT FILL SHOULD COME FROM AN OFF-SITE SOURCE THAT MEETS THE SELECT FILL CRITERIA AND SHOULD BE APPROVED PRIOR TO USE.

FILL SHOULD BE PLACED IN MAXIMUM LIFTS OF EIGHT (8) INCHES OF LOOSE MATERIALS AND SHOULD BE COMPACTED WITHIN THE RANGE OF ONE PERCENTAGE POINT BELOW (-1%) TO THREE PERCENTAGE POINTS ABOVE (+3%) THE OPTIMUM MOISTURE CONTENT VALUE AND A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D 698) TEST. IF WATER MUST BE ADDED, IT SHOULD BE UNIFORMLY APPLIED AND THOROUGHLY MIXED INTO THE SOILS BY DISKING OR SCARIFYING.

THE BUILDING PAD SHOULD EXTEND AT LEAST FIVE (5) FEET BEYOND THE EDGE OF THE ADDITION PRIOR TO SLOPING. EACH LIFT OF COMPACTED SOILD SHOULD BE TESTED AND INSPECTED BY THE SOILS ENGINEER OR AN AUTHORIZED REPRESENTATIVE PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS. AS A GUIDELINE, IT IS RECOMMENDED THAT FIELD DENSITY TESTS BE TAKEN AT A FREQUENCY OF NOT LESS THAN ONE (1) TEST PER 2,500 SQUARE FEET OF SURFACE AREA PER LIFT OR A MINIMUM OF FOUR (4) PER LIFT FOR EACH TESTED AREA FOR THE BUILDING.

PAVEMENT SUBGRADE PREPARATION

PLEASE REFER TO THE BUILDING PAD PREPARATION SECTION FOR INITIAL SUBGRADE REQUIREMENT. IN ADDITION, THE FINAL EIGHT (8) INCHES OF SUBGRADE UNDER PORTLAND CEMENT CONCRETE AND ASPHALTIC AND FLEXIBLE PAVEMENTS SHALL BE STABILIZED AS OUTLINED BELOW.

AFTER STRIPPING, THE PAVEMENT AREA SHOULD BE PROOF-ROLLED WITH A HEAVY, LOADED PNEUMATIC,TIRED VEHICLE SUCH AS A 20 TO 25 TON LOADED DUMP TRUCK. IT IS RECOMMENDED THAT ALL AREAS BENEATH THE PAVEMENTS BE PROOF-ROLLED TO IDENTIFY LOOSE OR SOFT SOILS. ALL PROOF-ROLLING ACTIVITIES SHOULD BE WITNESSED BY AN AUTHORIZED REPRESENTATIVE AND SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER. ANY WEAK AREAS WHICH YIELD UNDER THE PROOF-ROLL, OR ANY AREAS WITH A TENDENCY TO PUMP SHOULD BE MITIGATED.

AFTER PROOF-ROLLING BUT PRIOR TO PLACING ANY FILL, THE EXPOSED SOILS SHOULD BE SCARIFIED AND THEN PROCESSED TO A MOISTURE CONTENT BETWEEN ONE PERCENTAGE POINT BELOW (-1%) AND THREE PERCENTAGE POINTS ABOVE (+3%) THE STANDARD PROCTOR OPTIMUM. THE SUBGRADES SOILS SHOULD BE RE-COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE STANDARD PROCTOR (ASTM D 698) MAXIMUM DRY DENSITY FOR A DEPTH OF AT LEAST EIGHT (8) INCHES BELOW THE SURFACE. AS A GUIDELINE, IT IS RECOMMENDED THAT FIELD DENSITY TESTS BE TAKEN AT A FREQUENCY OF NOT LESS THAN ONE (1) TEST PER 5,000 SQUARE FEET OF SURFACE AREA PER LIFT OR A MINIMUM OF FOUR (4) PER LIFT FOR EACH TESTED AREA OF PAVEMENT.

IF FILL IS IMPORTED TO COMPLETE THE PAVEMENT GRADING, THE MATERIAL MAY CONSIST OF EITHER SELECT FILL, OR USABLE SOILS MEETING THE REQUIREMENTS OF TxDOT ITEM 132.2 TYPE A FILL. FILL SHOULD BE PLACED IN MAXIMUM LIFTS OF EIGHT (8) INCHES OF LOOSE MATERIALS AND COMPACTED WITHIN THE RANGE OF ONE PERCENTAGE POINT BELOW (-1%) TO THREE PERCENTAGE POINTS ABOVE (+3%) THE OPTIMUM MOISURE CONTENT VALUE AND A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D 698) TEST. IF WATER MUST BE ADDED, IT SHOULD BE UNIFORMLY APPLIED AND THOROUGHLY MIXED INTO THE SOIL BY DISKING OR SCARIFYING.

SEEDING AND MULCHING NOTE

CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS WITHIN THE SUBJECT BOUNDARY NOT PAVED OR OTHERWISE COVERED, PER THE SPECIFICATIONS. ALL AREAS DISTURBED OUTSIDE THE PROPERTY BOUNDARY SHALL ALSO BE SEEDED AND MULCHED AND COVER SHALL BE ESTABLISHED TO PREVENT EROSION. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATERING UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.

EMERGENCY ACCESS NOTE

HARD SURFACE FOR EMERGENCY ACCESS SHALL BE CONSTRUCTED ALONG "FIRE LANE" ROUTE PRIOR TO ERECTING BUILDING STRUCTURE. FIRE LANES WILL REMAIN CLEAR DURING CONSTRUCTION.

CITY OF LONGVIEW CONTACT INFORMATION

CONTACT CITY ENGINEER 48 HOURS PRIOR TO THE BEGINNING WORK AT 903-237-1067.

CITY OF LONGVIEW MAINTENANCE BOND

THE CITY OF LONGVIEW REQUIRES A MAINTENANCE BOND FOR A PERIOD OF ONE (1) YEAR WHEN THE PROJECT IS COMPLETED. THE BOND AMOUNT WILL BE BASED ON 100% OF THE ENGINEER'S OPINION OF COST OR SIGNED CONTRACT.

CITY OF LONGVIEW RECORD DRAWINGS NOTE

THE CITY OF LONGVIEW REQUIRES RECORD DRAWINGS TO BE SUBMITTED WITHIN THIRTY (30) DAYS OF THE COMPLETION OF THE CONSTRUCTION PROJECT. PLEASE INCORPORATE ALL INSPECTOR'S TIES AND NOTES IN YOUR RECORD DRAWINGS. THE INSPECTOR'S COPY MUST BE RETURNED WITH THE RECORD DRAWINGS. RECORD DRAWINGS WILL CONSIST OF (1) COMPLETE SET OF 24X36 BLACK LINE PAPER COPY AND (1) COMPLETE SET DIGITAL COPY IN AUTOCAD FORMAT. ALL CONSTRUCTION PLAN SHEETS ARE REQUIRED FOR THE RECORD DRAWINGS.

JOHNSON & PACE INCORPORATED
ENGINEERING • ARCHITECTURE • SURVEYING
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(903)753-0663 FAX (903)753-8803
website: www.johnsonpace.com
TBPE F-4691

STATE OF TEXAS
TRAVIS CRAFTON
101984
LICENSED PROFESSIONAL ENGINEER
11-22-2019

WORK SMART BUILDING
3122 NEALY WAY
LONGVIEW, TX

NO.	DESCRIPTION	BY	DATE
	REVISIONS		

GRADING PLAN

ISSUED FOR REVIEW

JOB NO.:	ISSUE DATE:
4516-001	11-22-2019
DRAWN BY: GEC	CHECKED BY:	APPROVED BY: TC	SCALE: 1"=20'
SHEET NO.: C1.0	REVISION NO.: