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912 I-30 FRONTAGE ROAD
ROCKWALL COUNTY
ROCKWALL, TEXAS 75087
ZONING: C
COMMERCIAL

DEVELOPER:

TEXAS ROADHOUSE
CONTACT: DUANE BANET
TEXAS ROADHOUSE HOLDINGS, LLC
6040 DUTCHMANS LANE, SUITE 400
LOUISVILLE, KENTUCKY 40205
EMAIL: DUANE.BANET@TEXASROADHOUSE.COM

ENGINEER:

GreenbergFarrow

CONTACT: JEFF RATH, P.E. 21 S. EVERGREEN AVENUE, SUITE 200 ARLINGTON HEIGHTS, ILLINOIS 60005

> TEL: (224) 310-5064 EMAIL: JRATH@GREENBERGFARROW.COM

CONTACTS:

PLANNING:

CITY OF ROCKWALL
ENGINEERING DEPARTMEN
385 S. GOLIAD STREET
ROCKWALL, TX 75087
CONTACT: AMY WILLIAMS,
ASSISTANT CITY ENGINEE

ELECTRIC:

TXU ENERGY
CONSTRUCTION AND BUILDER'S

TEL: (800) 711-9112

TO THE BEST OF OUR KNOWLEDGE, GREENBERGFARROW, HEREBY STATES

THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON

SAN. & STORM:

CITY OF ROCKWALL ENGINEERING DEPARTMEN 385 S. GOLIAD STREET ROCKWALL, TX 75087 CONTACT: AMY WILLIAMS, ASSISTANT CITY ENGINEE TEL: (972) 771–7746

ATMOS ENERGY TEL: (877) 460 FIRE:

ROCKWALL FIRE DEPARTME 385 S. GOLIAD STREET ROCKWALL, TX 75087 CONTACT: KEVIN CLARK, FIRE MARSHAL TEL: (972) 771-7770

SURVEYOR:

SPOONER & ASSOCIATES
CONTACT: ERIC SPOONER
309 BYERS STREET, #100
EULESS, TX 76039
TEL: (817) 685-8448
PROJECT NO. 16-156

GEOTECHNICAL ENGINEER:

TERRACON CONSULTANTS, INC.
CONTACT: GREGORY S. FAGAN, P.E.
8901 CARPENTER FREEWAY, SUITE 100
DALLAS, TEXAS 75247
TEL: (214)630-1010
PROJECT NO.94165431



JOHN H. NOURZAD

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JOB NO. 20151291.0

DATE: 8-7-2018

GENERAL NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY AND ALL WAYS, MEANS AND METHODS OF CONSTRUCTION.
- 2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL AGENCY CODES, STANDARDS AND SPECIFICATIONS.
- 3. CONTRACTOR SHALL OBTAIN ALL NECESSARY SITE PERMITS AND LICENSES FROM THE APPLICABLE GOVERNING AUTHORITIES.
- 4. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST STATE AND LOCAL GOVERNMENT CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- 5. UNLESS OTHERWISE NOTED ON THE PLANS, CONTRACTOR SHALL NOTIFY THE LOCAL ENGINEERING OR PUBLIC WORKS DEPARTMENT AND/OR OTHER PROJECT GOVERNING AUTHORITY(S) A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS AND TO SCHEDULE ANY REQUIRED SITE INSPECTIONS.
- 6. CONTRACTOR SHALL SCHEDULE A UTILITY LOCATING SERVICE AND/OR NOTIFY ALL UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, CABLE, ETC.) AND THE LOCAL MUNICIPALITY TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO AVOID POTENTIAL CONFLICTS. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON THE PLANS OR NOT AND TO HAVE THESE UTILITIES STAKED PRIOR TO CONSTRUCTION. ANY NECESSARY RELOCATIONS OR REMOVALS OF EXISTING UTILITY LINES SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING EXISTING AND PROPOSED UTILITIES TO FINISHED GRADE.
- 8. ALL EASEMENTS FOR EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS PREPARED BY THE SURVEYOR ACCORDING TO INFORMATION AVAILABLE FROM PUBLIC RECORDS OR VISIBLE FIELD MARKINGS. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND FOR THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THE CONFLICT MAY BE RESOLVED.
- 9. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS AND TO THE SATISFACTION OF THE APPLICABLE UTILITY OWNER(S).
- 10. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED.
- 11. ALL PROPERTY MARKERS AND SURVEY REFERENCE MARKERS SHALL BE CAREFULLY PRESERVED DURING CONSTRUCTION UNTIL THEIR LOCATION HAS BEEN WITNESSED OR OTHERWISE TIED IN BY AN AUTHORIZED AGENT OR PROFESSIONALLY LICENSED SURVEYOR.
- 12. THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS SHALL BE PROVIDED WHERE CONSTRUCTION OPERATIONS ABUT PUBLIC THROUGH—FARES AND ADJACENT PROPERTY.
- 13. ALL AREAS DISTURBED BY THE GENERAL CONTRACTOR OR SUB-CONTRACTORS SHALL BE RETURNED TO THE ORIGINAL CONDITION OR BETTER, EXCEPT WHERE PROPOSED CONSTRUCTION IS INDICATED ON THE PLANS.
- 14. PRIOR TO INITIAL ACCEPTANCE BY THE OWNER(S) AND/OR GOVERNING AUTHORITY, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER AND MUNICIPALITY ENGINEER OR HIS REPRESENTATIVE(S). THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF 2 (TWO) YEARS FROM THE DATE OF ACCEPTANCE OF THE CITY AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD AND UNTIL FINAL ACCEPTANCE IS MADE.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 16. CONTRACTOR SHALL KEEP THE PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS AT THE END OF EACH WORKING DAY.
- 17. ALL CONSTRUCTION STAKING, SCHEDULING AND PAYMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 18. AFTER COMPLETION OF THE PROPOSED IMPROVEMENTS AND WHEN REQUIRED BY THE GOVERNING AUTHORITY(S), CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AS—BUILT AND/OR RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONALLY LICENSED ENGINEER OR SURVEYOR AND SHALL INCLUDE AT A MINIMUM (WHERE APPLICABLE TO THE SCOPE OF WORK) THE FOLLOWING ITEMS:
- 18.1. TOPOGRAPHY AND SPOT GRADE ELEVATIONS OF ALL PROPOSED PERMANENT SITE FEATURES INCLUDING ANY STORM WATER FACILITIES OR MODIFICATIONS TO EXISTING STORM WATER FACILITIES.
- 18.2. HORIZONTAL AND VERTICAL LOCATION AND ALIGNMENT OF ALL PROPOSED ROADWAYS, PARKING LOTS, UTILITIES, BUILDINGS OR OTHER PERMANENT SITE FEATURES.
- 18.3. RIM AND INVERT AND/OR TOP OF PIPE ELEVATIONS FOR ALL PROPOSED UTILITIES.
- 18.4. AS-BUILT AND/OR RECORD DRAWING INFORMATION SHALL BE SHOWN ON THE APPROVED ENGINEERING PLANS ISSUED FOR CONSTRUCTION. ANY AND ALL DEVIATIONS FROM THESE APPROVED PLANS SHALL BE SHOWN BY MEANS OF STRIKING THROUGH THE PROPOSED INFORMATION AND CLEARLY INDICATING THE AS-BUILT LOCATIONS AND ELEVATIONS ON THE APPLICABLE PLAN SHEET.
- 18.5. SIGNED/SEALED LETTER OF DRAINAGE COMPLETION THAT INCLUDES THE VERIFICATION OF THE DETENTION FACILITIES.
- 18.6. SIGNED/SEALED LETTER OF CONCURRENCE FOR ANY RETAINING WALL 3' OR

SITE GRADING AND PAVING NOTES:

- 1. ALL SITE WORK, GRADING, AND PAVING OPERATIONS WITHIN THE LIMITS OF THE PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES IN THE PLANS AND THE STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL, REMOVING UNSUITABLE MATERIALS, CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSED OF LEGALLY OFFSITE OR AS DIRECTED BY THE PROJECT REPRESENTATIVE IN THE FIELD.
- 3. EXCAVATED TOPSOIL SHALL BE STOCKPILED ON THE SITE IN AREAS DESIGNATED BY THE PROJECT ENGINEER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING. UNLESS OTHERWISE NOTED ON THE PLANS, A MINIMUM OF 6" TOPSOIL RE—SPREAD AND SEEDING FOR ALL DISTURBED AREAS IS
- 4. THE GEOTECHNICAL INVESTIGATION REPORT FOR THE SITE AND ALL ADDENDA THERETO ARE SUPPORTING DOCUMENTS FOR THIS PROJECT. THE RECOMMENDATIONS AS STATED IN SAID REPORT ARE HEREBY INCORPORATED INTO THESE CONSTRUCTION NOTES BY REFERENCE AND SHALL BE FOLLOWED BY ALL CONTRACTORS. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY A SOILS ENGINEER OR HIS REPRESENTATIVE. FURTHER CONSTRUCTION OPERATIONS WILL NOT BE PERMITTED UNTIL THE SOILS ENGINEER ISSUES A WRITTEN STATEMENT THAT THE AREA IN QUESTION HAS BEEN SATISFACTORILY PREPARED AND IS READY FOR CONSTRUCTION. ALL FILL TO BE COMPACTED TO A MINIMUM OF 95% USING A SHEEP'S FOOT ROLLER.
- 5. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE SOIL REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH AND PERFORMED AT THE DIRECTION OF THE OWNER'S GEOTECHNICAL ENGINEER.
- 6. THE CONTRACTOR SHALL USE CARE IN GRADING NEAR TREES, SHRUBS, AND BUSHES WHICH ARE NOT NOTED TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS.
- 7. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT HIS OWN EXPENSE.
- 8. REMOVED PAVEMENTS, SIDEWALKS, CURBS, TREES AND STUMPS SHALL BE DISPOSED OF LEGALLY OFFSITE AT LOCATIONS DETERMINED BY THE CONTRACTOR.
- 9. ON AND OFFSITE PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
- 10. PROPOSED ELEVATIONS INDICATE FINISHED GRADE CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THE THICKNESS OF THE PROPOSED PAVEMENT SECTION (ROADS, WALKS, DRIVE, ETC.) OR TOPSOIL AS INDICATED ON THE PLANS.
- 11. CONTRACTOR SHALL PROVIDE SMOOTH VERTICAL CURVES THROUGH THE HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS ON THE PLANS. CONTRACTOR SHALL PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES AND AVOID ANY RIDGES AND/OR DEPRESSIONS.
- 12. ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, WALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH.
- 13. ALL EXISTING AND PROPOSED TOP OF FRAME ELEVATIONS FOR STORM, SANITARY, WATER AND OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED GRADE WITHIN THE PROJECT LIMITS.
- 14. SITE GRADING AND CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE AND MATCH EXISTING GRADES FLUSH
- EXISTING GRADES FLUSH.

 15. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE

DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION

REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.

16. DRIVEWAYS SHALL BE CONSTRUCTED SO AS NOT TO IMPEDE THE SURFACE

DRAINAGE SYSTEM.

- 17. TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE APPLICABLE STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SHALL BE INSTALLED AND PROVIDED WHENEVER CONSTRUCTION FOR UTILITIES ARE WITHIN STREET AREAS. APPLICABLE ORDINANCES OF THE MUNICIPALITY, COUNTY OR STATE SHALL ALSO GOVERN THE TRAFFIC CONTROL REQUIREMENTS.
- 18. 75%-80% OF ALL DISTURBED AREA TO HAVE A MINIMUM 1" STAND OF GRASS PRIOR TO CITY ACCEPTANCE

STORM SEWER NOTES:

- 1. ALL STORM SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES IN THE PLANS AND THE STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. STORM SEWER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
- 3. HDPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE PER ASTM F2306 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D3212.
- 4. STORM SEWER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
- 4.1. PRIVATE STORM SEWERS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE, MATERIAL SHALL BE EXTENDED A MINIMUM OF 12" OVER THE TOP OF THE PIPE PER ASTM D2321. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING LOCAL STANDARD GRADATIONS.
- 4.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY, PER ASTM D698, OVER ALL STORM SEWERS WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
- 5. REQUIRED STORM STRUCTURE RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.
- 6. FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE OWNER AND/OR ENGINEER UPON COMPLETION OF THE PROJECT AND ACCURATELY SHOWN ON THE RECORD DRAWINGS.
- 7. DETENTION SYSTEMS SHALL BE FULLY INSTALLED AND FUNCTIONING PER APPROVED PLAN PRIOR TO ANY PAVING INCLUDING SLAB BEING INSTALLED.

SANITARY SEWER NOTES:

- 1. ALL SANITARY SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES IN THE PLANS AND THE STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. ALL SANITARY SEWER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
- 3. ALL SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 PIPE PER ASTM D3034 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D3212, UNLESS OTHERWISE NOTED.
- 3.1. WHERE SANITARY SEWER PIPE IS NOTED AS PVC C900, THE PIPE SHALL BE IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) C900 WITH WATERTIGHT, PRESSURE RATED JOINTS CONFORMING TO ASTM D3139.
- 4. SANITARY SEWER CONSTRUCTION SHALL COMMENCE AT THE EXISTING MANHOLE(S) AND/OR CONNECTION POINT(S) INDICATED ON THE PLANS.
- 4.1. A WATERTIGHT PLUG SHALL BE INSTALLED AND LEFT IN PLACE AT THE POINT OF COMMENCEMENT UNTIL THE REMAINDER OF THE PROPOSED SEWERS HAVE BEEN CONSTRUCTED, PROPERLY TESTED AND DEEMED READY FOR FINAL
- 5. ALL SANITARY SEWER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
- 5.1. ALL SANITARY SEWERS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE, MATERIAL SHALL BE EXTENDED A MINIMUM OF 12" OVER THE TOP OF THE PIPE PER ASTM D2321. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING LOCAL STANDARD GRADATIONS.
- 5.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY, PER ASTM D698, OVER ALL SANITARY SEWERS WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
- 6. THE CONTRACTOR IS REQUIRED TO RECORD THE LOCATION OF ALL SEWERS AND FURNISH THE INFORMATION TO THE PROJECT ENGINEER AND/OR OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL LOCATE ALL SEWERS BY MEASUREMENTS TO LOT CORNERS OR OTHER PERMANENT SITE FEATURE AND SHALL FURNISH A COPY OF SUCH LOCATIONS TO THE PROJECT ENGINEER AND/OR OWNER'S REPRESENTATIVE UPON PROJECT COMPLETION. THIS INFORMATION SHALL ALSO INCLUDE THE DEPTH OF EACH SEWER. IF THE CONTRACTOR FAILS TO PROPERLY LOCATE ANY SEWER, HE SHALL BE RESPONSIBLE FOR ALL COSTS WHICH ARE INCURRED AS A RESULT OF THE IMPROPERLY LOCATED UTILITIES.
- 7. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAILS IN THE PLANS.
- 7.1. A FLEXIBLE TYPE JOINT SHALL BE FURNISHED AT POINTS OF ENTRY INTO AND EXITING FROM MANHOLE STRUCTURES AND SHALL BE OF A DESIGN APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THIS FLEXIBLE JOINT MAY CONSIST OF A SLEEVE OF HIGH QUALITY SYNTHETIC RUBBER WITH A SUBSTANTIAL SERRATED FLANGE WHICH IS CAST DIRECTLY INTO THE WALL OF THE MANHOLE BASE TO FORM A WATERTIGHT SEAL AND PROTRUDES OUTSIDE OF THE MANHOLE WALL TO CONNECT WITH THE PIPE ENTERING/EXITING THE MANHOLE. WHEN THIS TYPE OF FLEXIBLE JOINT IS USED, THE SLEEVE SHALL SLIP OVER THE END OF THE PIPE ADJACENT TO THE MANHOLE BASE AND SHALL BE SECURED BY MEANS OF A STAINLESS STEEL STRAP CLAMP EQUIPPED WITH A DRAW BOLT AND NUT.
- 8. REQUIRED MANHOLE RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.

SANITARY SEWER NOTES (continued):

- 9. AFTER FINAL ADJUSTMENTS HAVE BEEN MADE, ALL JOINTS IN PRECAST STRUCTURES SHALL BE MORTARED. THE MORTAR SHALL BE COMPOSED OF ONE (1) PART CEMENT TO THREE (3) PARTS SAND, BY VOLUME, BASED ON DRY MATERIALS, AND SHALL BE THOROUGHLY WETTED BEFORE LAYING.
- 10. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR MANHOLE, THE FOLLOWING METHOD SHALL BE USED:
- 10.1. CIRCULAR SAW—CUT OF SEWER MAIN BY PROPER TOOLS ('SEWER—TAP' MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB—WYE SADDLE OR HUB—TEE SADDLE.
- 11. UPON COMPLETION OF THE SANITARY SEWER CONSTRUCTION, INCLUDING THE SERVICE LINES, ALL SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTIONS LOCAL REQUIREMENTS AND SPECIFICATIONS AND SHALL BE WITNESSED BY THE LOCAL GOVERNING AUTHORITY OR AUTHORIZED REPRESENTATIVE.
- 12. CONTRACTOR TO INSTALL GREEN EMS DISK ON THE SEWER LINES AT EVERY CHANGE IN DIRECTION, MANHOLE, SERVICE CONNECTION, AND CLEANOUTS.

WATER MAIN AND WATER SERVICE NOTES:

- 1. ALL WATER MAIN CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES IN THE PLANS AND THE STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. WATER MAIN PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
- 3. WATER MAIN SHALL BE POLYVINYL CHLORIDE (PVC) PIPE IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) PRE CLASS 200 C900 DR14 WITH PRESSURE RATED FLEXIBLE (O-RING) SLIP ON JOINTS CONFORMING TO ASTM D3139, UNLESS OTHERWISE NOTED.
- 4. UNLESS OTHERWISE NOTED ON THE PLANS, ALL WATER MAIN PIPE SHALL BE LAID WITH A MINIMUM COVER OF FIVE (5) FEET FROM THE PROPOSED FINISH GRADE INDICATED ON THE PLANS OR TO THE SPECIFIC TOP OF PIPE ELEVATION INDICATED ON THE PLANS FOR THE WATER MAIN. NO BERMS ARE ALLOWED OVER WATER MAINS EXCLUSIVELY FOR THE PURPOSE OF OBTAINING ADEQUATE GROUND COVER.
- 5. WATER MAIN TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
- 5.1. B3 FOR WATER COMPACTED TO 95% SAND.
- 5.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY, PER ASTM D698, OVER ALL WATER MAINS WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
- 6. A WATERTIGHT PLUG SHALL BE PLACED IN THE END OF THE WATER MAIN PIPE AT THE END OF EACH CONSTRUCTION DAY.
- 7. UPON COMPLETION OF THE WATERMAIN CONSTRUCTION, ALL WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM STANDARDS:
- 7.1. HYDROSTATIC PRESSURE AND LEAKAGE TESTS IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS AND SHALL BE WITNESSED BY THE LOCAL GOVERNING AUTHORITY.
- 7.2. DISINFECTION IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE METHODS STATED IN AWWA STANDARD C651 AND WITNESSED BY THE LOCAL GOVERNING
- 8. WATER SERVICE PIPING AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
- 9. WATER SERVICE LINES 2" IN DIAMETER OR SMALLER SHALL BE TYPE 'K' COPPER TUBING CONFORMING TO ASTM B88-14. NO COUPLINGS SHALL BE PERMITTED BETWEEN THE CORPORATION AND CURB STOPS OR BETWEEN THE CURB STOP AND THE BUILDING.
- 10. WATER SERVICE FITTINGS INCLUDING CORPORATION STOPS, SERVICE BOXES AND BUFFALO BOXES SHALL BE FURNISHED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
- 11. SERVICE BOXES SHALL BE OF SUFFICIENT LENGTH TO PERMIT THE TOP TO BE INSTALLED FLUSH WITH THE FINISHED GRADE. EACH SERVICE BOX SHALL BE PROVIDED WITH A CAP WITH THE WORD "WATER" CAST IN THE TOP.
- 12. VALVES, VALVE BOXES OR VAULTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- 13. PRESSURE CONNECTIONS TO THE EXISTING WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS AND SHALL INCLUDE THE INSTALLATION OF A FULL STAINLESS STEEL TAPPING SADDLE.
- 14. VALVE VAULTS SHALL HAVE A MINIMUM DIAMETER OF FIVE (5) FEET BELOW THE PRECAST CONCRETE CONE SECTION. THE VAULTS SHALL BE CONSTRUCTED OF PRECAST CONCRETE SECTIONS AND SHALL CONFORM TO THE DETAILS SPECIFIED ON THE PLANS. ALL VALVE VAULTS SHALL BE LEAK PROOF.
- 15. TEMPORARY CONNECTIONS FOR CONSTRUCTION PURPOSES TO NEWLY INSTALLED OR EXISTING WATER MAINS SHALL BE MADE AND METERED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- 16. REQUIRED RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.
- 17. BENDS ON 4" AND GREATER WATER LINES SHALL BE PROVIDED WITH RESTRAINED JOINTS. (MEGALUG SERIES 2000 OR APPROVED EQUAL)
- 18. CONTRACTOR TO INSTALL BLUE EMS DISKS ON THE WATER LINE, EVERY FIRE HYDRANT, 250', VALVE, SERVICE CONNECTION, AND BEND.

WATER AND SEWER SEPARATION NOTES:

- 1. WATER MAINS SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION
- SEWER, OR SEWER SERVICE CONNECTION.
 2. WATER MAINS MAY BE LOCATED CLOSER THAN TEN (10) FEET TO A SEWER LINE
- 2.1. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET; AND
- 2.2. THE WATER MAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER; AND

THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH

ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.

3. WHEN IT IS IMPOSSIBLE TO MEET 1) OR 2) ABOVE, BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP—ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRE—STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED FOR THE MAXIMUM EXPECTED SURCHARGE HEAD

PRIOR TO BACKFILLING.

- 3.1. PUBLIC WATER AND SEWERS TO BE CONCRETE ENCASED (10' EITHER SIDE OF CROSSING) IF 2' OF CLEARANCE IS NOT ACHIEVED.
- 4. WATER MAINS SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS, OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE
- SEWER OR DRAIN.

 5. BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP—ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRE—STRESSED CONCRETE PIPE,
- OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN: 5.1. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN 4) ABOVE; OR THE WATER MAIN PASSES UNDER A SEWER OR
- 6. A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. THE SEWER OR DRAIN LINES SHALL BE SUPPORTED TO PREVENT SETTLING AND BREAKING OF THE WATER MAIN, AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.
- 7. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET.

GreenbergFarrow

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PROJECT TEAM

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ISSUE/REVISION RECORD

DATE DESCRIPTION

12/19/16 SITE PLAN

01/23/17 SITE PLAN

01/27/17 SITE PLAN SUBMITTAL

04/07/17 SITE PLAN SUBMITTAL 04/27/17 COORDINATION SET

 05/01/17
 SITE PLAN SUBMITTAL

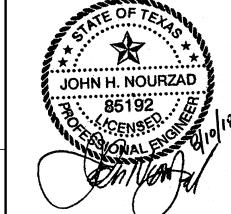
 05/19/17
 ENGINEERING REVIEW

 06/27/17
 PERMIT SET

07/19/17 PERMIT 3ET 07/19/17 PERMIT/BID SET 07/20/17 ENGINEERING REVIEW 08/04/17 ENGINEERING REVIEW

10/11/17 STORMWATER REVISIONS
11/07/17 STORMWATER REVISIONS
11/20/17 CONSTRUCTION SET
12/13/17 GRADING REVISIONS

01/05/18 OWNER REVISIONS 08/07/18 AS-BUILT



PROFESSIONAL IN CHARGE JOHN NOURZAD PROFESSIONAL ENGINEER

PROJECT MANAGER
JEFF RATH
QUALITY CONTROL

DRAWN BY
MITCH HEFFERNAN
PROJECT NAME

LARRY DIEHL

TEXAS Roadhouse

ROCKWALL TEXAS

912 I-30 FRONTAGE ROAD



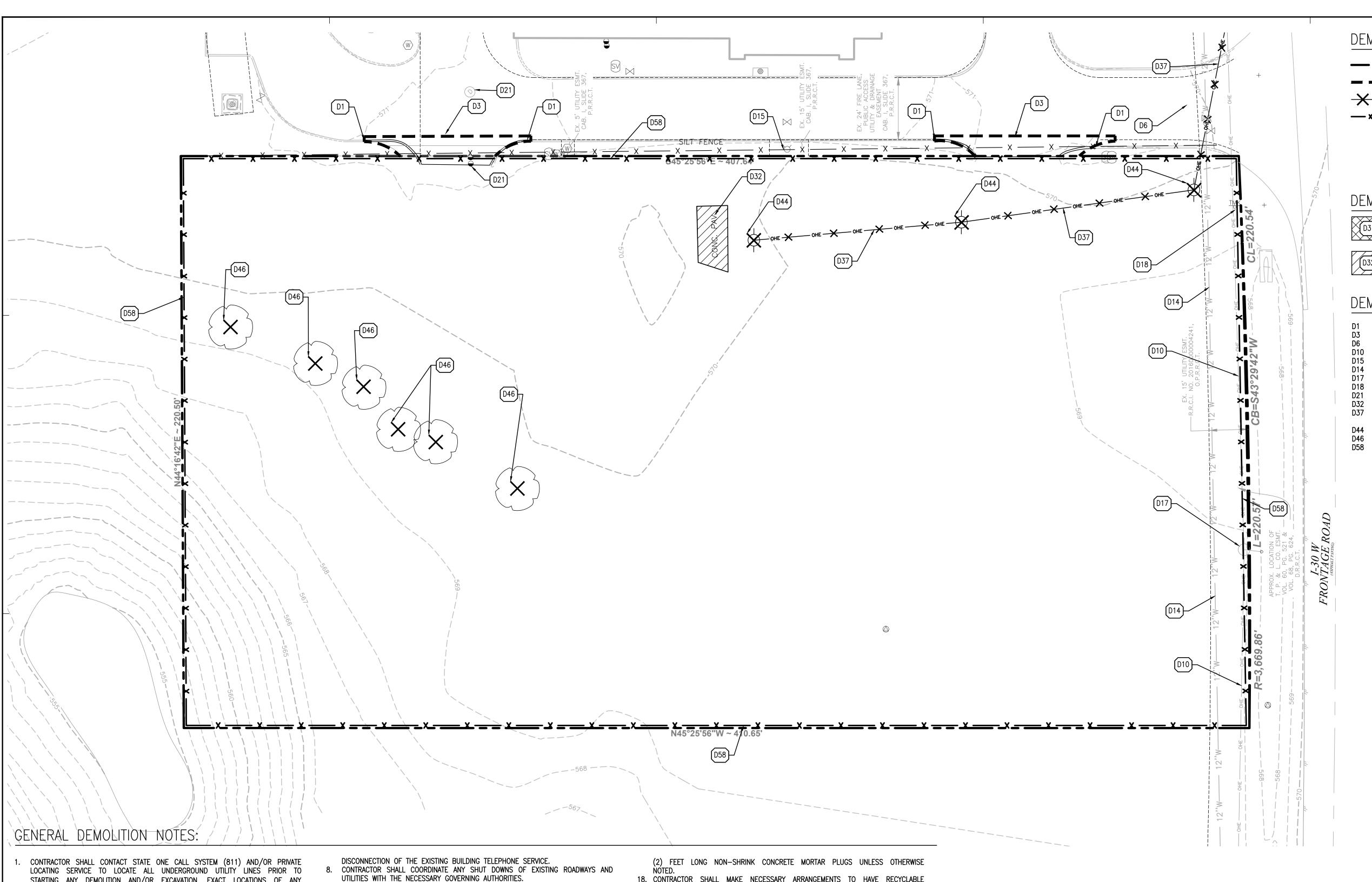
PROJECT NUMBER

SHEET TITLE
GENERAL

NOTES

SHEET NUMBER

C1.0



DEMOLITION PLAN LEGEND:

PROPERTY LINE

PROPOSED SAW CUT LINE

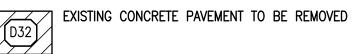
OHE — EXISTING ELECTRIC LINE TO BE REMOVED - x - x - PROPOSED CONSTRUCTION FENCE

EXISTING TREE TO BE REMOVED

NOTE: SEE SHEET C1.0 FOR EXISTING LEGEND

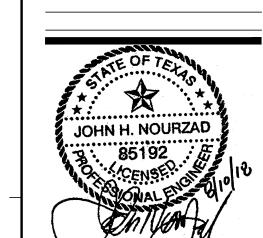
DEMOLITION HATCH LEGEND:





DEMOLITION KEY NOTES:

- D1 SAW CUT EXISTING CONCRETE CURB D3 SAW CUT EXISTING CONCRETE PAVEMENT
- D6 EXISTING CONCRETE PAVEMENT TO REMAIN D10 APPROXIMATE LOCATION OF EXISTING OVERHEAD ELECTRICAL LINE TO REMAIN
- D15 EXISTING FIRE HYDRANT TO REMAIN D14 APPROXIMATE LOCATION OF EXISTING WATER LINE TO REMAIN
- D17 EXISTING POWER POLE TO REMAIN D18 EXISTING SIGN TO REMAIN
- D21 EXISTING SANITARY STRUCTURE TO REMAIN
- D32 EXISTING CONCRETE PAVEMENT TO BE REMOVED
- D37 APPROXIMATE LOCATION OF EXISTING OVERHEAD ELECTRICAL LINE TO BE
- D44 EXISTING POWER POLE TO BE REMOVED D46 EXISTING TREE TO BE REMOVED
- D58 PROPOSED CONSTRUCTION FENCE



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06/27/17 PERMIT SET

08/07/18 AS-BUILT

07/19/17 PERMIT/BID SET

Atlanta, GA 30309

PROJECT TEAM

Suite 200

PROFESSIONAL IN CHARGE

JOHN NOURZAD PROFESSIONAL ENGINEER LICENSE NO. 85192

PROJECT MANAGER JEFF RATH **QUALITY CONTROL**

LARRY DIEHL DRAWN BY MITCH HEFFERNAN

TEXAS ROADHOUSE

PROJECT NAME

ROCKWALL

TEXAS

912 I-30 FRONTAGE ROAD



PROJECT NUMBER

SHEET TITLE **DEMOLITION**

SHEET NUMBER

PLAN

18. CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS TO HAVE RECYCLABLE MATERIALS REMOVED FROM THE SITE AND RECYCLED.

19. SEE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.

2. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS. 3. CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WORK WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF EXISTING SITE FEATURES NOT NOTED

FOR REMOVAL. 4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED (SEE STORMWATER POLLUTION PREVENTION PLAN FOR ADDITIONAL

INFORMATION AND DETAILS). 5. THE PURPOSE OF THIS DRAWING IS TO CONVEY THE OVERALL SCOPE OF DEMOLITION WORK AND IT IS NOT INTENDED TO COVER ALL DETAILS OR SPECIFICATIONS REQUIRED TO COMPLY WITH GENERALLY ACCEPTED DEMOLITION PRACTICES. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE, SCOPE OF WORK, AND ALL EXISTING CONDITIONS AT THE JOB SITE PRIOR TO BIDDING AND COMMENCING THE WORK. THE DEMOLITION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, OR PROCEDURES USED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND IS LIABLE FOR THE SAFETY OF THE PUBLIC AND CONTRACTOR'S EMPLOYEES DURING THE COURSE OF THE PROJECT.

6. THE DEMOLITION PLAN IS INTENDED TO SHOW REMOVAL OF KNOWN SITE FEATURES AND UTILITIES AS SHOWN ON THE SURVEY PROVIDED TO THE ENGINEER FOR DESIGN. THERE MAY BE OTHER SITE FEATURES, UTILITIES, STRUCTURES, AND MISCELLANEOUS ITEMS BOTH BURIED AND ABOVE GROUND THAT ARE WITHIN THE LIMITS OF WORK THAT MAY REQUIRE REMOVAL FOR THE PROPOSED SITE IMPROVEMENTS BUT THAT ARE NOT SHOWN HEREON. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF SUCH ITEMS AT NO ADDITIONAL COST TO THE

CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCING ANY SITE DEMOLITION OPERATIONS TO COORDINATE DISCONNECTION AND REMOVAL OF EXISTING UTILITIES WITHIN THE PROPOSED AREA OF WORK. CONTRACTOR SHALL ALSO CONTACT CAITLIN DAWSON WITH TEXAS ROADHOUSE (502-855-5556 OR CAITLIN.DAWSON@TEXASROADHOUSE.COM) TO COORDINATE 9. ALL EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, WHEEL STOPS AND MISCELLANEOUS DEBRIS) NOTED TO BE REMOVED SHALL BE DEMOLISHED, REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR. 10. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDINGS, PAVEMENTS,

OR WALKS OR WITHIN 24" THEREOF SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT. 11. AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED, FINAL GRADE OF BACKFILL

IN DEMOLITION AREAS SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT TO PRESENT A NEAT. WELL DRAINED APPEARANCE. AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION SWALES OR OTHER MEANS OF MAINTAINING ADEQUATE SITE DRAINAGE.

12. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED (REFER TO LANDSCAPE PLANS FOR ALL LANDSCAPING REMOVAL REQUIREMENTS).

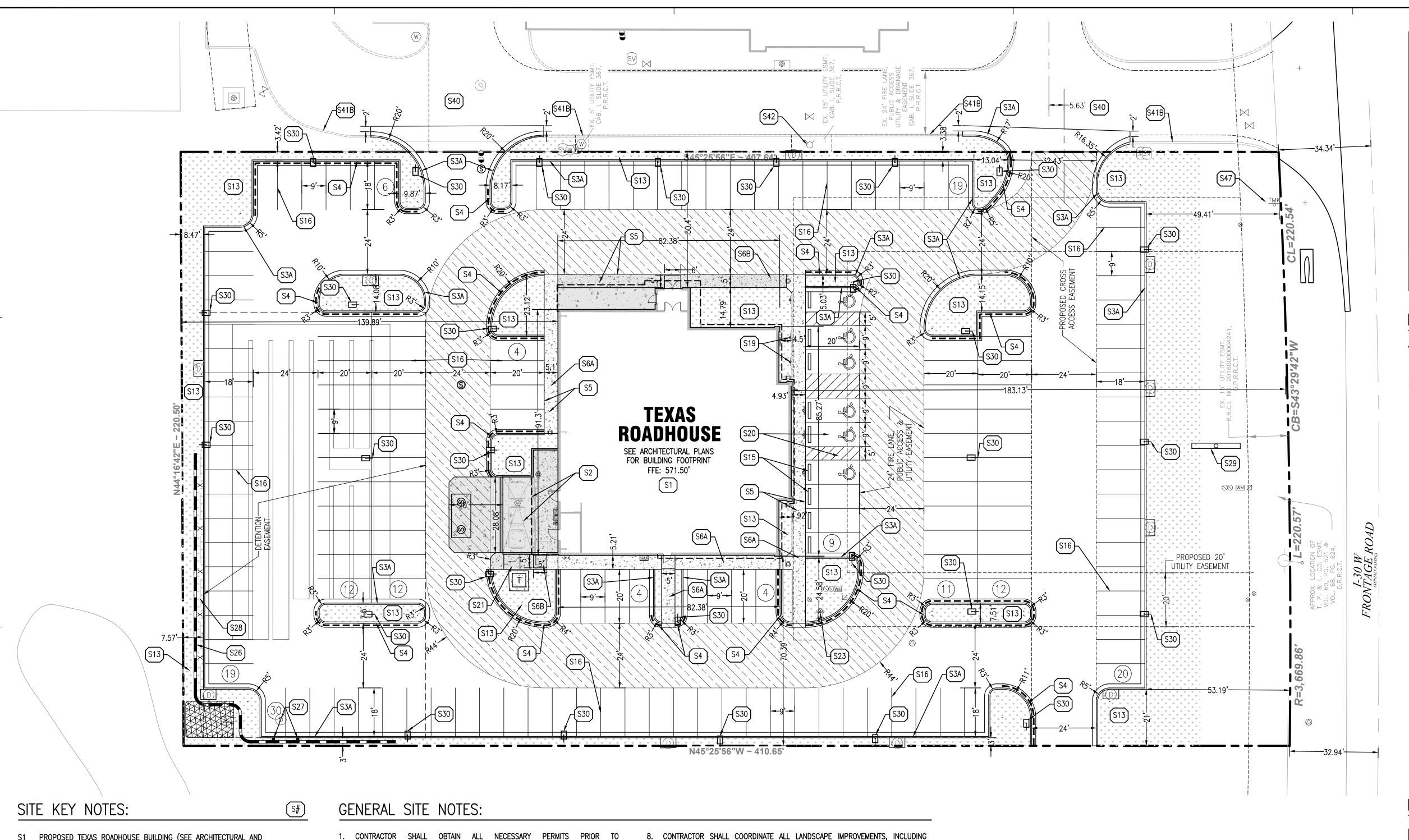
13. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION NOTED TO BE REMOVED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR (REFER TO LANDSCAPE PLANS FOR ALL LANDSCAPING REMOVAL REQUIREMENTS).

14. CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER. 15. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT,

CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.

CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES. 17. ALL EXISTING SANITARY SEWERS, STORM SEWERS, WATER MAINS OR IRRIGATION LINES AND APPURTENANCES NOTED FOR REMOVAL WITHIN THE AREA OF THE PROPOSED CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. ALL ABANDONED SEWER LINES SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO

16. ALL FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.



- S1 PROPOSED TEXAS ROADHOUSE BUILDING (SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS)
- S2 PROPOSED TRASH ENCLOSURE WITH SELF-LATCHING MECHANISM (SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS)
- S3A PROPOSED CONCRETE CURB AND GUTTER
- S4 PROPOSED REVERSE PITCH CONCRETE CURB AND GUTTER S5 PROPOSED MONOLITHIC CONCRETE CURB AND SIDEWALK
- S6A PROPOSED 5" CONCRETE SIDEWALK S6B PROPOSED INTEGRAL BLACK CONCRETE SIDEWALK
- S13 PROPOSED LANDSCAPE AREA (SEE LANDSCAPE PLANS FOR ADDITIONAL
- INFORMATION AND DETAILS) S15 PROPOSED PRECAST CONCRETE WHEEL STOP (TYP. OF 8)
- S16 PROPOSED 4" PAVEMENT STRIPING PER LOCAL CODE
- S19 PROPOSED HANDICAP ACCESSIBLE PARKING SIGN PER LOCAL CODE (TYP. OF
- S20 PROPOSED HANDICAP ACCESSIBLE PARKING STALL STRIPING AND SYMBOL PER LOCAL CODE (TYP.)
- S21 PROPOSED HANDICAP ACCESSIBLE CURB RAMP AT 12:1 MAXIMUM SLOPE PER LOCAL CODES
- S22 PROPOSED CONCRETE TRANSFORMER PAD WITH STEEL BOLLARD PROTECTION (CONTRACTOR SHALL COORDINATE CONCRETE TRANSFORMER PAD LOCATION, SIZE AND THICKNESS WITH ELECTRIC COMPANY PRIOR TO INSTALLATION)
- S23 PROPOSED FIRE HYDRANT S26 PROPOSED BLOCK RETAINING WALL
- S27 PROPOSED BOLLARD
- S28 PROPOSED TXDOT GUARD RAIL
- S29 PROPOSED POLE SIGN S30 PROPOSED LIGHT POLE. MUST BE 2' BEHIND CURB.
- S40 EXISTING CONCRETE PAVEMENT TO REMAIN S41B EXISTING CONCRETE CURB TO REMAIN
- S42 EXISTING FIRE HYDRANT TO REMAIN
- S47 EXISTING SIGN TO REMAIN

COMMENCEMENT OF CONSTRUCTION. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SITE

- SETBACKS, EASEMENTS AND DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. 4. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE
- WITH THE LATEST STATE AND LOCAL GOVERNMENT CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- 5. ALL HANDICAP ACCESSIBLE SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND REQUIREMENTS.
- 6. IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR FINDS ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PROPOSED SITE IMPROVEMENTS INDICATED ON THE PLANS AND THE PHYSICAL CONDITIONS OF THE SITE, OR ANY ERRORS OR OMISSIONS WITHIN THE PLANS OR IN THE SITE LAYOUT AS PROVIDED BY THE ENGINEER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER. UNTIL AUTHORIZED TO PROCEED, ANY WORK PERFORMED BY THE CONTRACTOR AFTER SUCH A DISCOVERY WILL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- 7. CONTRACTOR SHALL COORDINATE ALL SITE IMPROVEMENTS WITH ARCHITECTURAL PLANS. ARCHITECTURAL PLANS SHALL BE USED FOR BUILDING STAKEOUT.

SITE PLAN NOTES:

REFER TO THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON CONSULTANTS, INC. AND DATED OCTOBER 18TH, 2016 FOR ADDITIONAL INFORMATION REGARDING THE EXISTING SOIL CONDITIONS AND SUBGRADE PREPARATION REQUIREMENTS AND PROPOSED PAVEMENT RECOMMENDATIONS (TERRACON PROJECT NO. 94165431).

- 8. CONTRACTOR SHALL COORDINATE ALL LANDSCAPE IMPROVEMENTS, INCLUDING NEW PLANTINGS AND TURF AREA RESTORATION REQUIREMENTS. WITH
- 9. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. ALL DIMENSIONS SHOWN ARE MEASURED FROM FACE OF CURB TO FACE OF CURB OR EDGE OF PAVEMENT TO EDGE OF PAVEMENT UNLESS OTHERWISE
- 11. ALL CURB RADII ARE MEASURED AT THE FACE OF CURB UNLESS OTHERWISE
- 12. ALL NEW ASPHALT AND/OR CONCRETE PAVING SHALL MATCH EXISTING PAVEMENTS FLUSH.
- 13. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER. 14. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM
- THE SATISFACTION OF THE OWNER AND/OR ENGINEER. 15. ALL FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY

CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO

VEHICLES. 16. SEE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

PROJECT INFORMATION:

SITE AREA: ZONED: PROPOSED BUILDING AREA:

LANDSCAPE PLANS.

COMMERCIAL 7,420 SQ. FT. RESTAURANT

±2.075 ACRES

PROPOSED USE: 28'-10" BUILDING HEIGHT: PARKING REQUIRED: 75 STALLS

(1 STALL PER 4 SEATS AND 281 SEATS TOTAL OR 1 STALL PER 100 SF FLOOR AREA, WHICHEVER IS GREAT)

PARKING PROVIDED:

162 STALLS (INCLUDING 6 ADA STALLS)



PROPOSED LEGEND:

— — — PROPERTY LINE PROPOSED CONCRETE CURB AND GUTTER PROPOSED REVERSE PITCH CURB AND GUTTER PROPOSED PARKING STALL COUNT PROPOSED CONCRETE WHEEL STOP PROPOSED SIGN PROPOSED POLE SIGN PROPOSED LIGHT POLE PROPOSED STORM SEWER STRUCTURES PROPOSED SANITARY SEWER STRUCTURES

PROPOSED SANITARY SEWER GREASE INTERCEPTOR

PROPOSED FIRE HYDRANT PROPOSED FIRE DEPARTMENT CONNECTION (FDC)

PROPOSED WATER METER AND VAULT PROPOSED GATE VALVE AND VALVE BOX PROPOSED WATER SERVICE TAP

PROPOSED BACK FLOW PREVENTOR PROPOSED TRANSFORMER PAD AND STEEL BOLLARDS

PROPOSED GAS METER

PROPOSED ELECTRIC METER, CT CABINET AND DISCONNECT

NOTE: SEE SHEET C1.0 FOR EXISTING LEGEND

PAVEMENT HATCH LEGEND:

PROPOSED CONCRETE SIDEWALK 3,000 PSI, MIN 5.5 SACK MIN 5" PORTLAND CEMENT CONCRETE 6" MOISTURE CONDITIONED SUBGRADE



PROPOSED INTEGRAL BLACK CONCRETE SIDEWALK 3,000 PSI, MIN 5.5 SACK MIN 5" PORTLAND CEMENT CONCRETE

6" MOISTURE CONDITIONED SUBGRADE

GRAPHIC SCALE

(IN FEET)

1 inch = 20 ft.

CASE NO. SP2017-012



912 I-30 FRONTAGE ROAD

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JOHN H. NOURZAD

PROFESSIONAL IN CHARGE

JOHN NOURZAD

QUALITY CONTROL

PROJECT NAME

ROCKWALL

TEXAS

ROADHOUSE

JEFF RATH

LARRY DIEHL

DRAWN BY MITCH HEFFERNAN

TEXAS

PROFESSIONAL ENGINEER LICENSE NO. 85192 PROJECT MANAGER

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01/23/17 SITE PLAN

Suite 200

Atlanta, GA 30309

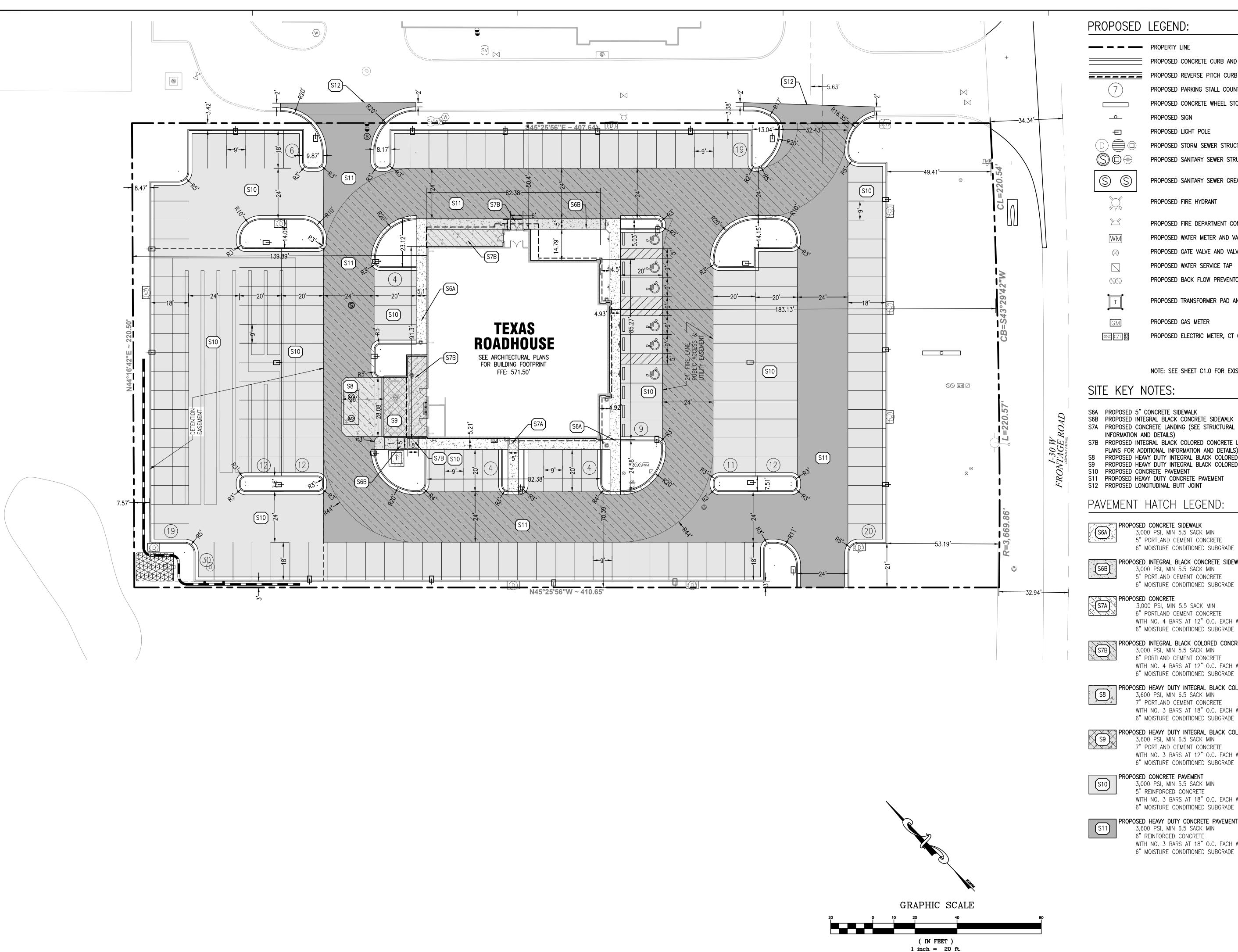
PROJECT TEAM

PROJECT NUMBER

SHEET TITLE **SITE AND DIMENSIONAL PLAN**

SHEET NUMBER

63.0



PROPOSED LEGEND:

PROPERTY LINE PROPOSED CONCRETE CURB AND GUTTER PROPOSED REVERSE PITCH CURB AND GUTTER PROPOSED PARKING STALL COUNT PROPOSED CONCRETE WHEEL STOP PROPOSED SIGN PROPOSED LIGHT POLE PROPOSED STORM SEWER STRUCTURES

PROPOSED SANITARY SEWER GREASE INTERCEPTOR

PROPOSED SANITARY SEWER STRUCTURES

PROPOSED FIRE HYDRANT

PROPOSED FIRE DEPARTMENT CONNECTION (FDC) PROPOSED WATER METER AND VAULT

PROPOSED WATER SERVICE TAP

PROPOSED GATE VALVE AND VALVE BOX

PROPOSED ELECTRIC METER, CT CABINET AND DISCONNECT

NOTE: SEE SHEET C1.0 FOR EXISTING LEGEND

PROPOSED BACK FLOW PREVENTOR PROPOSED TRANSFORMER PAD AND STEEL BOLLARDS

PROPOSED GAS METER

SITE KEY NOTES:

S6A PROPOSED 5" CONCRETE SIDEWALK S6B PROPOSED INTEGRAL BLACK CONCRETE SIDEWALK S7A PROPOSED CONCRETE LANDING (SEE STRUCTURAL PLANS FOR ADDITIONAL

S7B PROPOSED INTEGRAL BLACK COLORED CONCRETE LANDING (SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS)

PROPOSED HEAVY DUTY INTEGRAL BLACK COLORED CONCRETE PROPOSED HEAVY DUTY INTEGRAL BLACK COLORED CONCRETE SLAB

S10 PROPOSED CONCRETE PAVEMENT S11 PROPOSED HEAVY DUTY CONCRETE PAVEMENT

S12 PROPOSED LONGITUDINAL BUTT JOINT

PAVEMENT HATCH LEGEND:

PROPOSED CONCRETE SIDEWALK 3,000 PSI, MIN 5.5 SACK MIN 5" PORTLAND CEMENT CONCRETE 6" MOISTURE CONDITIONED SUBGRADE

PROPOSED INTEGRAL BLACK CONCRETE SIDEWALK 3,000 PSI, MIN 5.5 SACK MIN

5" PORTLAND CEMENT CONCRETE 6" MOISTURE CONDITIONED SUBGRADE

ROPOSED CONCRETE 3,000 PSI, MIN 5.5 SACK MIN 6" PORTLAND CEMENT CONCRETE

WITH NO. 4 BARS AT 12" O.C. EACH WAY 6" MOISTURE CONDITIONED SUBGRADE PROPOSED INTEGRAL BLACK COLORED CONCRETE 3,000 PSI, MIN 5.5 SACK MIN

6" PORTLAND CEMENT CONCRETE WITH NO. 4 BARS AT 12" O.C. EACH WAY 6" MOISTURE CONDITIONED SUBGRADE

PROPOSED HEAVY DUTY INTEGRAL BLACK COLORED CONCRETE 3,600 PSI, MIN 6.5 SACK MIN 7" PORTLAND CEMENT CONCRETE WITH NO. 3 BARS AT 18" O.C. EACH WAY

PROPOSED HEAVY DUTY INTEGRAL BLACK COLORED CONCRETE SLAB
3,600 PSI, MIN 6.5 SACK MIN
7" PORTLAND CEMENT CONCRETE WITH NO. 3 BARS AT 12" O.C. EACH WAY

6" MOISTURE CONDITIONED SUBGRADE PROPOSED CONCRETE PAVEMENT 3,000 PSI, MIN 5.5 SACK MIN 5" REINFORCED CONCRETE

WITH NO. 3 BARS AT 18" O.C. EACH WAY 6" MOISTURE CONDITIONED SUBGRADE PROPOSED HEAVY DUTY CONCRETE PAVEMENT

3,600 PSI, MIN 6.5 SACK MIN 6" REINFORCED CONCRETE WITH NO. 3 BARS AT 18" O.C. EACH WAY 6" MOISTURE CONDITIONED SUBGRADE

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10/11/17 STORMWATER REVISIONS

11/07/17 STORMWATER REVISIONS 11/20/17 CONSTRUCTION SET

JOHN H. NOURZAD

PROFESSIONAL IN CHARGE

LICENSE NO. 85192

JOHN NOURZAD PROFESSIONAL ENGINEER

PROJECT MANAGER

QUALITY CONTROL

PROJECT NAME

ROCKWALL

TEXAS

ROADHOUSE

912 I-30 FRONTAGE ROAD

JEFF RATH

LARRY DIEHL

DRAWN BY

TEXAS

MITCH HEFFERNAN

12/13/17 GRADING REVISIONS

01/05/18 OWNER REVISIONS

08/07/18 AS-BUILT

06/27/17 PERMIT SET

07/19/17 PERMIT/BID SET

12/19/16 SITE PLAN 01/23/17 SITE PLAN

Atlanta, GA 30309

PROJECT TEAM

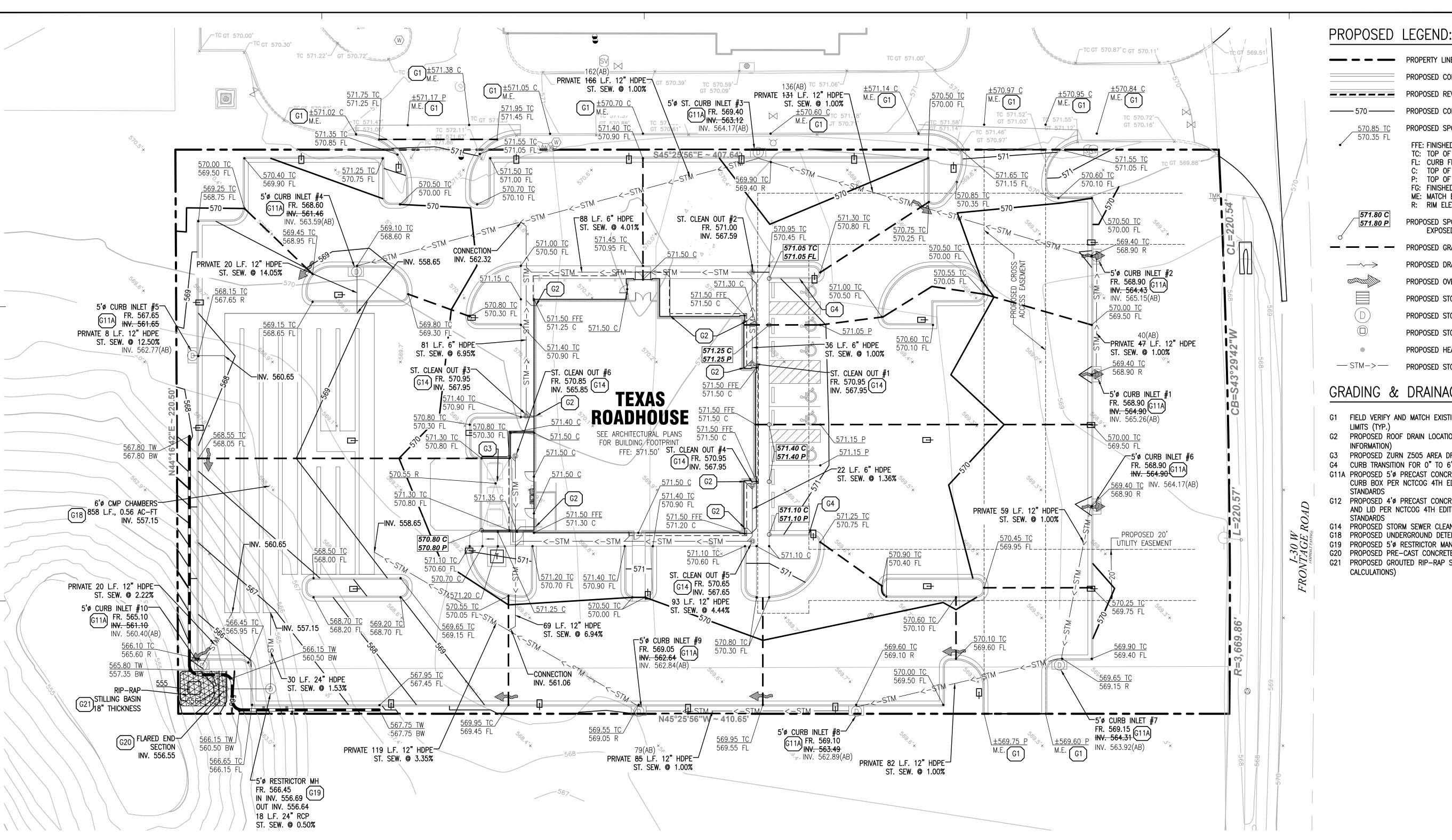
Suite 200

SHEET TITLE **PAVING PLAN**

SHEET NUMBER

63. I

CASE NO. SP2017-012



- PROPERTY LINE

PROPOSED CONCRETE CURB AND GUTTER PROPOSED REVERSE PITCH CONCRETE CURB AND GUTTER ——— 570 ———— PROPOSED CONTOUR

PROPOSED SPOT ELEVATION 570.35 FL

FFE: FINISHED FLOOR ELEVATION TC: TOP OF CURB ELEVATION FL: CURB FLOWLINE ELEVATION

C: TOP OF CONCRETE ELEVATION P: TOP OF PAVEMENT ELEVATION FG: FINISHED GRADE ELEVATION ME: MATCH EXISTING ELEVATION

R: RIM ELEVATION 571.80 C PROPOSED SPOT ELEVATION

EXPOSED CURB FACE VARIES PROPOSED GRADING RIDGE LINE

PROPOSED DRAINAGE FLOW DIRECTION \longrightarrow PROPOSED OVERLAND FLOOD ROUTE

PROPOSED STORM SEWER STRUCTURE PROPOSED STORM SEWER STRUCTURE WITH CLOSED LID

PROPOSED STORM SEWER CLEAN OUT

PROPOSED HEAVY DUTY AREA DRAIN

— STM->— PROPOSED STORM SEWER

- G1 FIELD VERIFY AND MATCH EXISTING ELEVATION AT PROJECT SCOPE OF WORK LIMITS (TYP.)
- G2 PROPOSED ROOF DRAIN LOCATION (SEE UTILITY PLAN FOR MORE
- G3 PROPOSED ZURN Z505 AREA DRAIN (SEE UTILITY AND PLUMBING PLANS)
- G11A PROPOSED 5'Ø PRECAST CONCRETE CURB INLET WITH NEENAH R-3065-A CURB BOX PER NCTCOG 4TH EDITION STANDARD AND CITY OF ROCKWALL
- G12 PROPOSED 4'Ø PRECAST CONCRETE MANHOLE WITH NEENAH R-1772 FRAME AND LID PER NCTCOG 4TH EDITION STANDARD AND CITY OF ROCKWALL STANDARDS
- G19 PROPOSED 5'Ø RESTRICTOR MANHOLE STRUCTURE (SEE C7.1 FOR DETAIL) G20 PROPOSED PRE-CAST CONCRETE FLARED END SECTION
- G21 PROPOSED GROUTED RIP-RAP STILLING BASIN (SEE C7.2 FOR DETAILS AND CALCULATIONS)

GRAPHIC SCALE

(IN FEET)

1 inch = 20 ft.

GRADING & DRAINAGE KEY NOTES:

- INFORMATION)
- G4 CURB TRANSITION FOR 0" TO 6" IN HEIGHT
- G14 PROPOSED STORM SEWER CLEAN OUT
- G18 PROPOSED UNDERGROUND DETENTION SYSTEM

汝 JOHN H. NOURZAD 85192

1430 W. Peachtree St. NW

t: 404 601 4000 f: 404 601 3970

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Atlanta, GA 30309

PROJECT TEAM

Suite 200

PROFESSIONAL IN CHARGE **JOHN NOURZAD** PROFESSIONAL ENGINEER

LICENSE NO. 85192 PROJECT MANAGER

JEFF RATH **QUALITY CONTROL** LARRY DIEHL DRAWN BY

MITCH HEFFERNAN **PROJECT NAME**

TEXAS ROADHOUSE

ROCKWALL TEXAS

GRADING AND DRAINAGE

SHEET NUMBER

912 I-30 FRONTAGE ROAD



PROJECT NUMBER

SHEET TITLE

PLAN

FLOOD NOTE:

AGENCY FLOOD INSURANCE RATE MAP NUMBER 48397C0040L WITH AN EFFECTIVE DATE OF SEPTEMBER 26, 2008.

SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS. 19. SEE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 20. REFER TO SHEET C4.7 - INITIAL GRADING PLAN. WORK SHOWN ON SHEET C4.7 SHALL BE CONDUCTED BEFORE WORK SHOWN ON THIS SHEET. "PROPOSED" CONTOURS SHOWN ON SHEET C4.7 ARE "EXISTING" CONTOURS SHOWN ON THIS SHEET.

11. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION

12. MAXIMUM CROSS SLOPES AND LONGITUDINAL SLOPES FOR ALL CONCRETE

13. MAXIMUM SLOPES WITHIN THE HANDICAP ACCESSIBLE PARKING AREAS SHALL NOT

14. MAXIMUM GRADE DIFFERENCE BETWEEN PAVEMENT SURFACES AND ADJACENT

15. ALL HANDICAP ACCESSIBLE EXTERIOR DOORWAY LOCATIONS REQUIRE AN EXTERIOR

16. EXCAVATION SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF

17. ALL STRUCTURE BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN

CONCRETE SIDEWALKS FOR THE ACCESSIBLE ROUTE TO THE BUILDING SHALL NOT

LANDING THAT IS A MINIMUM OF FIVE (5) FEET IN LENGTH WITH A SLOPE NOT

THE WORK AND FOR THE SAFETY OF PERSONNEL. SHORING SHALL BE IN

TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH CONVEYANCE OF

FLOWS THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A

DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE

DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL,

"NO DUMPING, DRAINS TO STREAM", OR SIMILARLY APPROVED MESSAGE, CAST IN

RAISED OR RECESSED LETTERS AT A MINIMUM OF 1" IN HEIGHT. IN ADDITION, A

CONSTRUCTED AT A MINIMUM 1/2-INCH PER FOOT SLOPE TO THE MANHOLE WALL.

18. ALL STORM WATER INLETS AND CATCH BASIN CASTINGS SHALL HAVE THE WORDS

SIDEWALKS AND HANDICAP ACCESSIBLE ROUTES SHALL NOT EXCEED 2% AND 5%,

LIMITS TO ORIGINAL CONDITION OR BETTER.

EXCEED 1/4" VERTICAL OR 1/2" WHEN BEVELED.

ACCORDANCE WITH ALL O.S.H.A AND LOCAL REGULATIONS.

EXCEED 2% IN ANY DIRECTION.

EXCEEDING 2% IN ANY DIRECTION.

RESPECTIVELY.

GENERAL GRADING NOTES:

POINTS DURING CONSTRUCTION OPERATIONS.

PROPOSED SITE IMPROVEMENTS SHOWN ON THE PLANS.

CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

COMMENCEMENT OF SITE GRADING OPERATIONS.

USING A SHEEP'S FOOT ROLLER.

EXISTING GRADES FLUSH.

OWNER AND/OR ENGINEER.

OWNER AND/OR ENGINEER.

GRADE WITHIN THE PROJECT LIMITS.

1. ALL GRADING AND SITE PREPARATION WORK SHALL CONFORM WITH THE

2. CONTRACTOR SHALL CAREFULLY PRESERVE ALL SITE BENCHMARKS AND REFERENCE

3. CONTRACTOR SHALL PROVIDE A MINIMUM OF 95% STANDARD DENSITY COMPACTION

RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE GEOTECHNICAL REPORT

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 LOCAL UTILITY LOCATION CENTER AT

LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT

FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE

CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE

CONTRACTOR SHALL INSTALL APPROPRIATE TREE PROTECTION MEASURES PRIOR TO

ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, WALKS, ETC. SHALL MATCH

CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL STORM DRAINAGE

STRUCTURES. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY THE

ALL EXISTING AND PROPOSED TOP OF FRAME ELEVATIONS FOR STORM, SANITARY.

WATER AND OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED

CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO

REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE

CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC

AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE

10. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT,

PROJECT SITE DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD AREA AND IS LOCATED IN ZONE "X" AS SHOWN ON THE ABOVE FEDERAL EMERGENCY MANAGEMENT

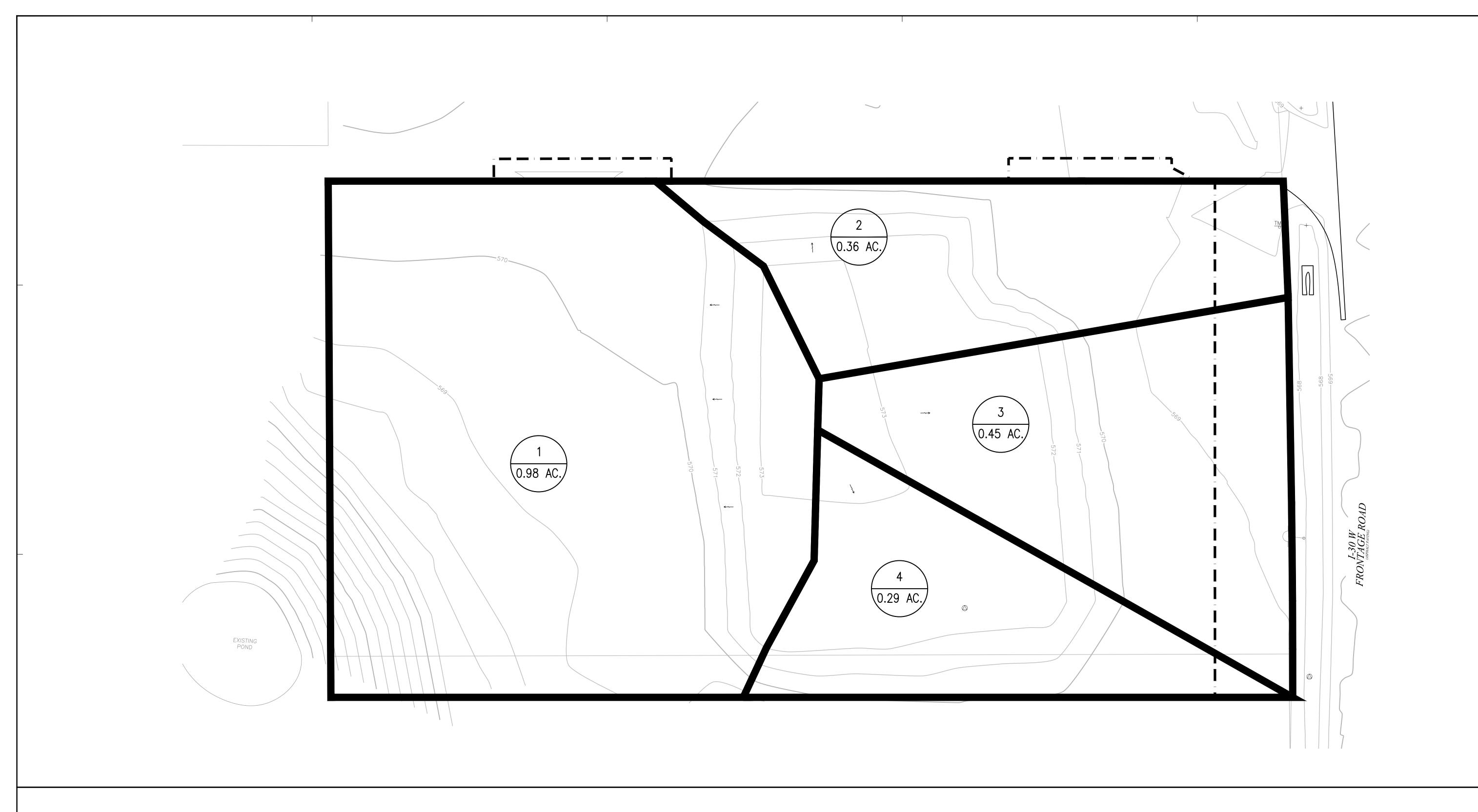
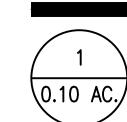


EXHIBIT LEGEND:

LAND DISTURBANCE LIMITS

STORM SEWER TRIBUTARY AREA LIMITS



STORM SEWER STRUCTURE NUMBER

TRIBUTARY DRAINAGE AREA

EXISTING DRAINAGE FLOW DIRECTION

TRIBUTARY AREA TABLE:

TOTAL STORM SEWER TRIBUTARY AREA: 2.08 ACRES 'C' VALUE (PARKS OR OPEN AREAS): 0.35

STORMWATER RUNOFF COEFFICIENTS ARE TAKEN FROM THE CITY OF ROCKWALL, TX STANDARDS OF DESIGN AND CONSTRUCTION.

MAXIMUM RELEASE RATE CALCULATIONS:

AREA 1: Q = CIA C = 0.35 (PARKS OR OPEN AREAS)

 $T_c = 20 \text{ MIN}$ $I_{100} = 8.3 \text{ IN/HR}$ $I_{100} = (0.35)(8.3)(0.98) = 2.85 \text{ CFS}$

AREA 2: Q100 = (0.35)(8.3)(0.36) = 1.05 CFS

AREA 3: Q100 = (0.35)(8.3)(0.45) = 1.31 CFS

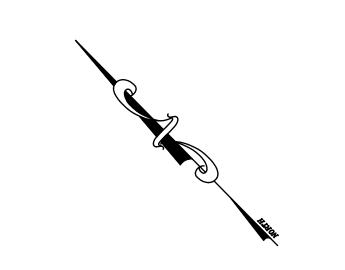
AREA 4: Q100 = (0.35)(8.3)(0.29) = 0.84 CFS

5-YEAR, 10-YEAR, 25-YEAR RELEASE RATES

Q = CIA C = 0.35 (PARKS OR OPEN AREAS) T_c = 20 MIN I_5 = 4.9 IN/HR Q5 (AREA 1) = (0.35)(4.9)(0.98) = 1.68 CFS Q5 (AREA 2) = (0.35)(4.9)(0.36) = 0.62 CFS Q5 (AREA 3) = (0.35)(4.9)(0.45) = 0.77 CFS Q5 (AREA 4) = (0.35)(4.9)(0.29) = 0.50 CFS

 $h_{10} = 5.9 \text{ IN/HR}$ Q10 (AREA 1) = (0.35)(5.9)(0.98) = <u>2.02 CFS</u> Q10 (AREA 2) = (0.35)(5.9)(0.36) = 0.74 CFS Q10 (AREA 3) = (0.35)(5.9)(0.45) = 0.93 CFS Q10 (AREA 4) = (0.35)(5.9)(0.29) = 0.60 CFS

 $I_{25} = 6.6 \text{ IN/HR}$ Q25 (AREA 1) = (0.35)(6.6)(0.98) = <u>2.26 CFS</u> Q25 (AREA 2) = (0.35)(6.6)(0.36) = 0.83 CFS Q25 (AREA 3) = (0.35)(6.6)(0.45) = 1.04 CFS Q25 (AREA 4) = (0.35)(6.6)(0.29) = 0.67 CFS



(IN FEET) 1 inch = 20 ft.

GRAPHIC SCALE

1430 W. Peachtree St. NW

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Suite 200

Atlanta, GA 30309

PROJECT TEAM

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ISSUE/REVISION RECORD DATE DESCRIPTION

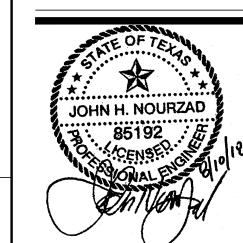
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PROFESSIONAL IN CHARGE JOHN NOURZAD PROFESSIONAL ENGINEER LICENSE NO. 85192

PROJECT MANAGER JEFF RATH

QUALITY CONTROL LARRY DIEHL DRAWN BY MITCH HEFFERNAN

PROJECT NAME TEXAS

ROADHOUSE

ROCKWALL TEXAS

912 I-30 FRONTAGE ROAD

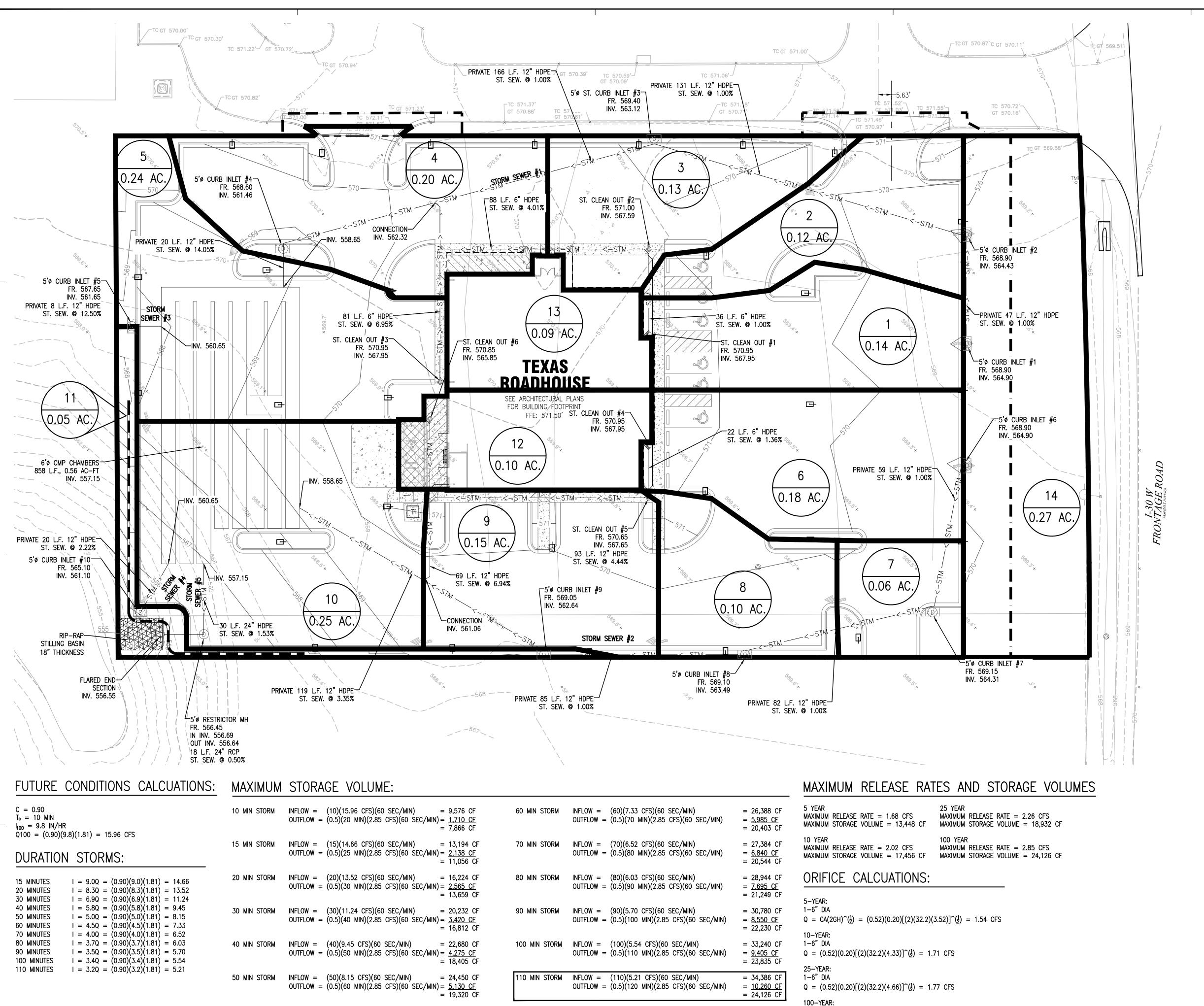


PROJECT NUMBER

SHEET TITLE

EXISTING DRAINAGE AREAS

SHEET NUMBER C4.1



1-6" DIA

 $Q = (0.52)(0.20)[(2)(32.2)(6.23)]^{\frac{1}{2}} = 2.05 \text{ CFS}$

 $Q = (0.52)(0.05)[(2)(32.2)(5.05)]^{\frac{1}{2}} =$

EXHIBIT LEGEND:

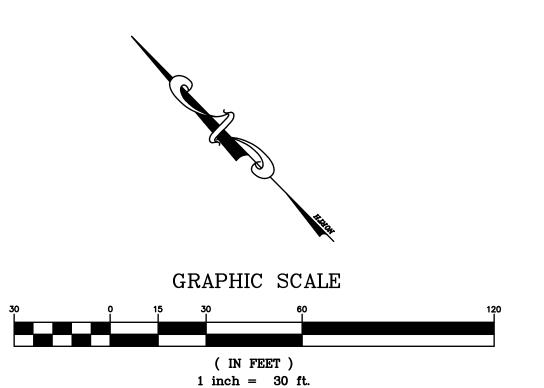
- PROPERTY LINE LAND DISTURBANCE LIMITS STORM SEWER TRIBUTARY AREA LIMITS STORM SEWER STRUCTURE NUMBER TRIBUTARY DRAINAGE AREA PROPOSED CONTOUR — PROPOSED GRADING RIDGE PROPOSED DRAINAGE FLOW DIRECTION PROPOSED OVERLAND FLOOD ROUTE

5	-YR DETENTION POND	VOLUME	
ELEVATION	CUMM. VOLUME	VOLUME	WSE
563.15			
	24,220		
562.15			
	21,582		
561.15			
	17,161	13,448	560.4
560.15			
	12,110		
559.15			
	7,059		
558.15			
	2,638		·
557.15			

10	LO-YR DETENTION POND VOLUME												
ELEVATION	CUMM. VOLUME	VOLUME	WSEL										
563.15													
	24,220												
562.15													
	21,582	17,456	561.22										
561.15													
	17,161												
560.15													
	12,110												
559.15													
	7,059												
558.15													
	2,638												
557.15													
	563.15 562.15 561.15 560.15 559.15	ELEVATION CUMM. VOLUME 563.15 24,220 562.15 21,582 561.15 17,161 560.15 12,110 559.15 7,059 558.15 2,638	ELEVATION CUMM. VOLUME VOLUME 563.15 24,220 562.15 17,456 561.15 17,161 560.15 12,110 559.15 7,059 558.15 2,638										

25-1	YR DETENTION POND	VOLUME	
ELEVATION	CUMM. VOLUME	VOLUME	WSEL
563.15			
	24,220		
562.15			
	21,582	18,932	561.55
561.15			
	17,161		
560.15			
	12,110		
559.15			
	7,059		
558.15			
	2,638		
557.15			

100-	YR DETENTION PON	D VOLUME	
ELEVATION	CUMM. VOLUME	VOLUME	WSEL
563.15			
	24,220	24,144	563.12
562.15			
	21,582		
561.15			
	17,161		
560.15			
	12,110		
559.15			
	7,059		
558.15			
	2,638		
557.15			



PROPOSED STORM SEWER

PROPOSED STORM SEWER CATCH BASIN PROPOSED STORM SEWER CLEAN OUT

550.15			
	2,638		
557.15			
25	S-YR DETENTION PONE	VOLUME	
ELEVATION	CUMM. VOLUME	VOLUME	WSEL
563.15			
	24,220		
562.15			
	21,582	18,932	561.55
561.15			
	17,161		
560.15			
	12,110		
559.15			
	7,059		



912 I-30 FRONTAGE ROAD

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PROJECT TEAM

Suite 200

PROJECT NUMBER

SHEET TITLE

STORMWATER MANAGEMENT PLAN

SHEET NUMBER **C4.2**

DRAINAGE AREA CALCULATION TABLE

				Drainage Are	ea Calculatio	n Table		
Area ID	Drainage Area	Runoff Coeff. C	C*A	Time of Concentration	Design Storm Frequency	Intensity I	Storm Runoff Q	Drains To/ Remarks
	(acres)			(min)	(yrs)	(in/hr)	(cfs)	
1	0.14	0.90	0.126	10	100	9.8	1.23	Drains to Cl#1 and ultimately the underground detention
2	0.12	0.90	0.108	10	100	9.8	1.06	Drains to CI#2 and ultimately the underground detention
3	0.13	0.90	0.117	10	100	9.8	1.15	Drains to CI#3 and ultimately the underground detention
4	0.20	0.90	0.180	10	100	9.8	1.76	Drains to CI#4 and ultimately the underground detention
5	0.24	0.90	0.216	10	100	9.8	2.12	Drains to CI#5 and ultimately the underground detention
6	0.18	0.90	0.162	10	100	9.8	1.59	Drains to CI#6 and ultimately the underground detention
7	0.06	0.90	0.054	10	100	9.8	0.53	Drains to CI#7 and ultimately the underground detention
8	0.10	0.90	0.090	10	100	9.8	0.88	Drains to CI#8 and ultimately the underground detention
9	0.15	0.90	0.135	10	100	9.8	1.32	Drains to CI#9 and ultimately the underground detention
10	0.25	0.90	0.225	10	100	9.8	2.21	Drains to CI#10 and ultimately the underground detention
11	0.05	0.90	0.045	10	100	9.8	0.44	Drains to the existing pond to the west of the site.
12	0.10	0.90	0.090	10	100	9.8	0.88	Drains to Storm Sewer #2 (Curb Inlet #9 - Detention)
13	0.09	0.90	0.081	10	100	9.8	0.79	Drains to Storm Sewer #1 (Curb Inlet #3 - Curb Inlet #4)
14	0.27	0.90	0.243	10	100	9.8	2.38	Drains to R.O.W.

100-YEAR INLET CAPACITY

		i= 9.81 in/hr (1	100-YEAR, 10 MIN)		
C	asting Infor	mation			
	1	Neenah R-3065-A	Area (ft^2) = 0.9	Perimeter (ft) = 4.5	Allowable % Capacity 100%

TEXAS ROADHO	DUSE
Structure ID	Area ID
▼	

Structure ID	Area ID	Area	C-value ⁵	Q	Casting	Ponding Depth (H)	# OF INLETS	Q(Orifice) ³	Q(weir) ⁴	Q(Control)	Result
▼	~	(ac) 🔻	₩.	(cfs) 🔻	V	(ft) •	▼	(cfs)	(cfs)	(cfs)	_
CI1	1	0.140	0.90	1.24	1	0.50	1	3.06	5.25	3.06	OK
CI2	2	0.120	0.90	1.06	1	0.50	1	3.06	5.25	3.06	OK
CI3	3	0.130	0.90	1.15	1	0.85	1	4.00	11.64	4.00	OK
CI4	4	0.290	0.90	2.56	1	0.35	1	2.56	3.07	2.56	OK
CI5	5	0.240	0.90	2.12	1	0.40	1	2.74	3.76	2.74	OK
CI6	6	0.180	0.90	1.59	1	0.50	1	3.06	5.25	3.06	OK
CI7	7	0.060	0.90	0.53	1	0.45	1	2.91	4.48	2.91	OK
CI8	8	0.100	0.90	0.88	1	0.45	1	2.91	4.48	2.91	OK
CI9	9	0.150	0.90	1.32	1	0.40	1	2.74	3.76	2.74	OK
CI10	10	0.250	0.90	2.21	1	0.50	1	3.06	5.25	3.06	OK

STORM SEWER TABLE FOR CURB INLET #1-UNDERGROUND DETENTION

Line ID	Line Length	Incr. Area	Total Area	Runoff Coeff.	Incr C x A	Total C x A	Adnl Flow	Total Flow	Capac Full	Veloc	Pipe Size	Pipe Slope	Inv Elev Dn	Inv Elev Up	HGL Dn	HGL Up	Grnd/Rim Dn	Grnd/Rim Up
	(ft)	(ac)	(ac)	(C)			(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
CI4-Det	20.080	0.20	0.68	0.90	0.18	0.61	1.76	5.99	13.32	11.50	12	13.99	558.65	561.46	559.15	562.41	567.00	568.60
CI3-CI4	166.182	0.22	0.48	0.90	0.20	0.43	1.94	4.23	3.56	5.39	12	1.00	561.46	563.12	562.46	564.81	568.60	569.40
CI2-CI3	129.133	0.12	0.26	0.90	0.11	0.23	1.06	2.29	0.00	3.85	12	1.01	563.12	564.43	563.91	565.08	569.40	568.90
CI1-CI2	46.000	0.14	0.14	0.90	0.13	0.13	1.23	1.23	0.00	2.85	12	1.02	564.43	564.90	565.08	565.37	568.90	568.90

STORM SEWER TABLE FOR CURB INLET #6-UNDERGROUND DETENTION

Line ID	Line Length	Incr. Area	Total Area	Runoff Coeff.	Incr C x A	Total C x A	Adnl Flow	Total Flow	Capac Full	Veloc	Pipe Size	Pipe Slope	Inv Elev Dn	Inv Elev Up	HGL Dn	HGL Up	Grnd/Rim Dn	Grnd/Rim Up
	(ft)	(ac)	(ac)	(C)			(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
CI9-Det	118.550	0.25	0.59	0.90	0.23	0.53	2.20	5.20	6.53	8.04	12	3.37	558.65	562.64	559.32	563.57	569.30	569.05
CI8-CI9	84.856	0.10	0.34	0.90	0.09	0.31	0.88	3.00	3.56	4.38	12	1.00	562,64	563,49	563.57	564,23	569.05	569.10
CI7-CI8	82.415	0.06	0.24	0.90	0.05	0.22	0.53	2.12	3.55	3.76	12	0.99	563.49	564.31	564.23	564.93	569.10	569.15
CI6-CI7	58.618	0.18	0.18	0.90	0.16	0.16	1.59	1.59	3.57	3.41	12	1.01	564.31	564.90	564.93	565.43	569.15	568.90

STORM SEWER TABLE FOR UNDERGROUND DETENTION TO OUTFALL

Line ID	Line Length	Incr. Area	Total Area	Runoff Coeff,	Incr C x A	Total C x A	Adnl Flow	Total Flow	Capac Full	Veloc	Pipe Size	Pipe Slope	Inv Elev Dn	Inv Elev Up	HGL Dn	HGL Up	Grnd/Rim Dn	Grnd/Rim Up
	(ft)	(ac)	(ac)	(C)			(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
Restrict MH-Outfall	18.000	0.00	0.00	0.90	0.00	0,00	2.51	2,51	16.00	3,57	24	0.50	556.55	556,64	557.10	557.19	555.50	566,45
Det-Restrict MH	29.750	0.00	0.00	0.90	0.00	0.00	14.65	14.65	28.13	5.51	24	1.55	556.69	557.15	558.66	558.53	566.45	566.95

STORM SEWER TABLE FOR CURB INLET #5-UNDERGROUND DETENTION

Line ID	Line Length	Incr. Area	Total Area	Runoff Coeff.	Incr C x A	Total C x A	Adnl Flow	Total Flow	Capac Full	Veloc	Pipe Size	Pipe Slope	Inv Elev Dn	Inv Elev Up	HGL Dn	HGL Up	Grnd/Rim Dn	Grnd/Rim Up
	(ft)	(ac)	(ac)	(C)			(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
CI5-Det	8.250	0.24	0.24	0.90	0.22	0.22	2.12	2.12	12.40	4.14	12	12.12	560.65	561.65	561.27	562.27	567.85	567.65

STORM SEWER TABLE FOR CURB INLET #10-UNDERGROUND DETENTION

Line ID	Line Length	Incr. Area	Total Area	Runoff Coeff.	Incr C x A	Total C x A	Adnl Flow	Total Flow	Capac Full	Veloc	Pipe Size	Pipe Slope		Inv Elev Up	HGL Dn	HGL Up	Grnd/Rim Dn	Grnd/Rim Up
	(ft)	(ac)	(ac)	(C)			(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
CI10-Det	20.260	0.25	0.25	0.90	0.23	0.23	2.21	2.21	5.31	4.18	12	2.22	560.65	561.10	561.29	561.74	566.74	565.10

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11/20/17 CONSTRUCTION SET 12/13/17 GRADING REVISIONS 01/05/18 OWNER REVISIONS 08/07/18 AS-BUILT

PROFESSIONAL IN CHARGE JOHN NOURZAD PROFESSIONAL ENGINEER LICENSE NO. 85192

PROJECT MANAGER

QUALITY CONTROL LARRY DIEHL DRAWN BY

MITCH HEFFERNAN PROJECT NAME

TEXAS ROADHOUSE

ROCKWALL TEXAS

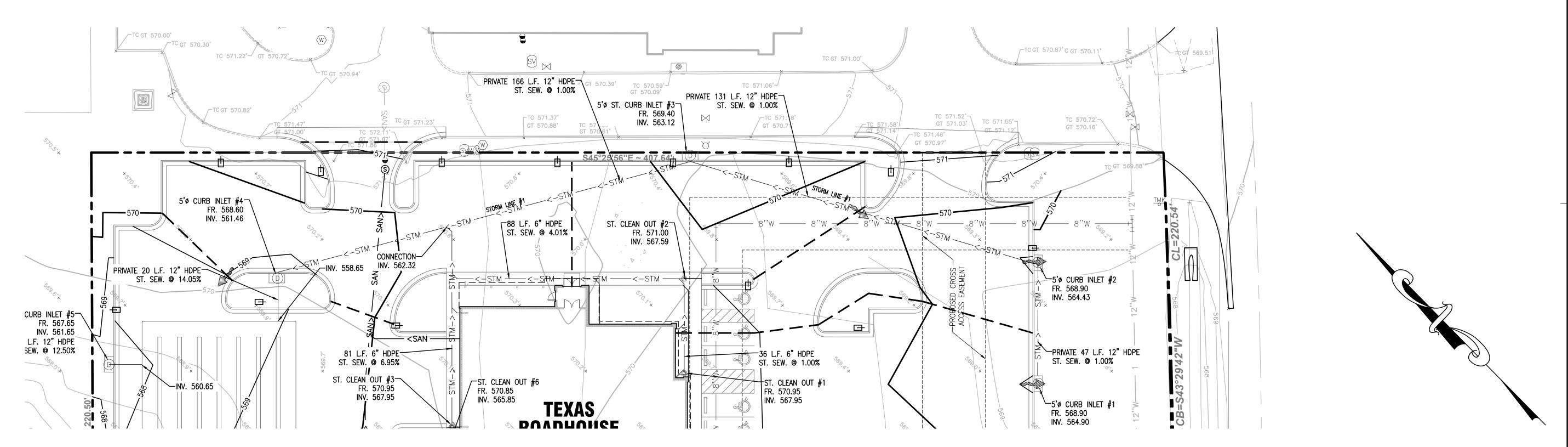
912 I-30 FRONTAGE ROAD

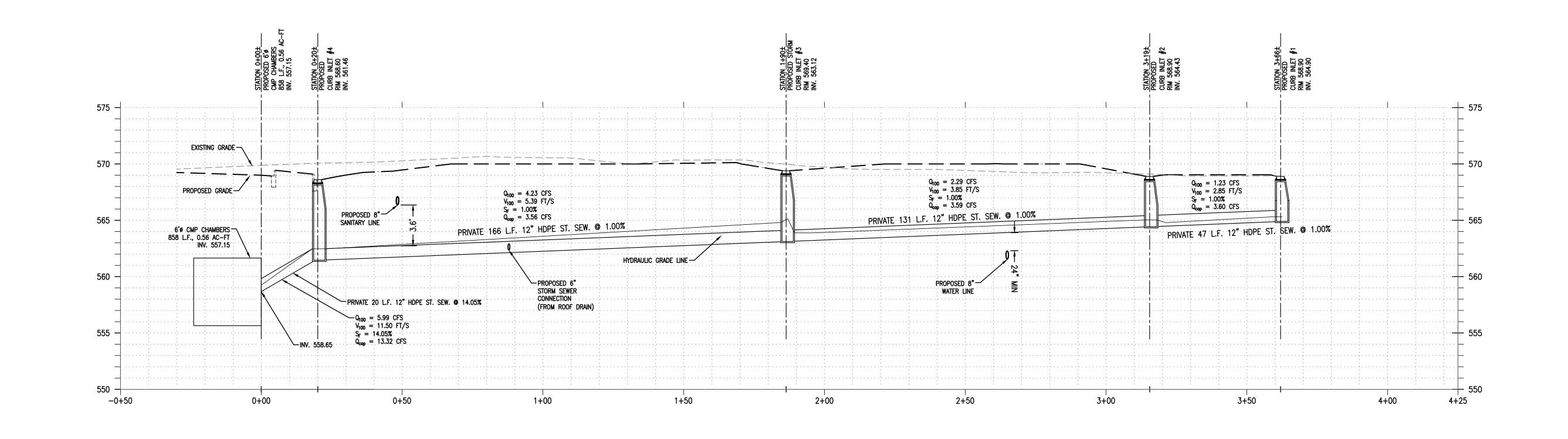


PROJECT NUMBER

SHEET TITLE

STORMWATER MANAGEMENT PLAN





PROPOSED STORM
SEWER PROFILE # 1

<u>PLAN VIEW</u>

1" = 20'

PROFILE VIEW H: 1" = 10' V: 1" = 2'

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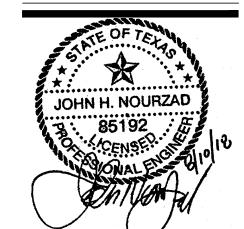
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11/07/17 STORMWATER REVISIONS 11/20/17 CONSTRUCTION SET 12/13/17 GRADING REVISIONS 01/05/18 OWNER REVISIONS 08/07/18 AS-BUILT



PROFESSIONAL IN CHARGE JOHN NOURZAD PROFESSIONAL ENGINEER LICENSE NO. 85192 PROJECT MANAGER JEFF RATH

QUALITY CONTROL LARRY DIEHL **DRAWN BY** MITCH HEFFERNAN

PROJECT NAME TEXAS

ROADHOUSE

ROCKWALL TEXAS

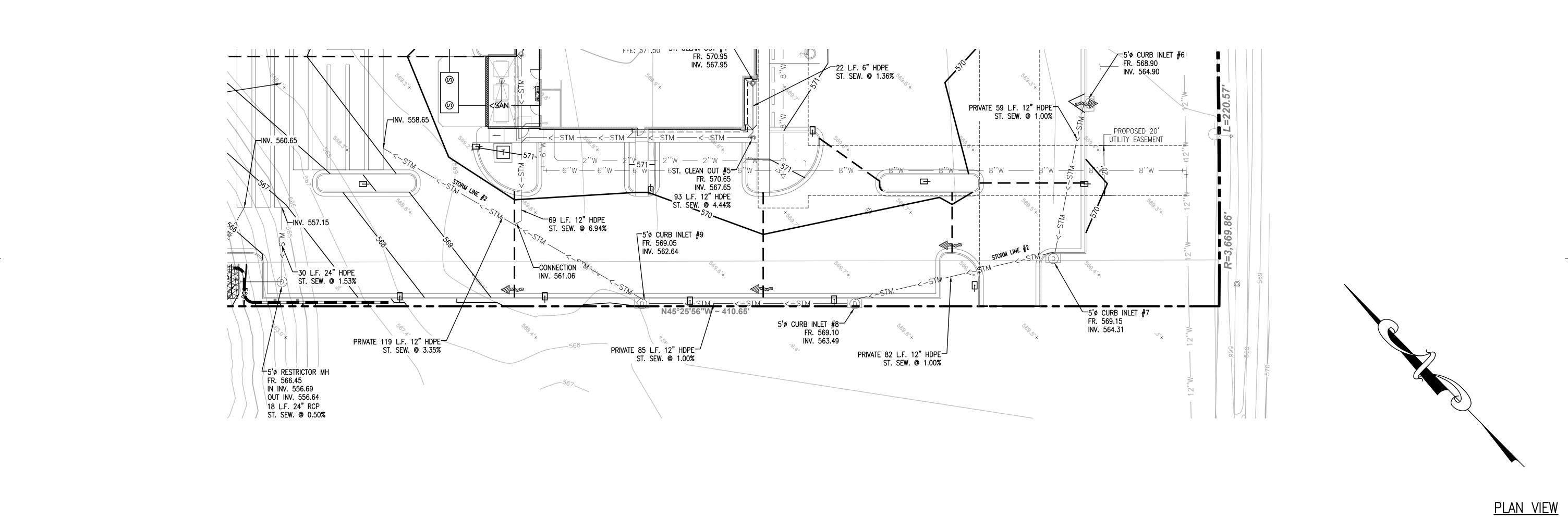
912 I-30 FRONTAGE ROAD

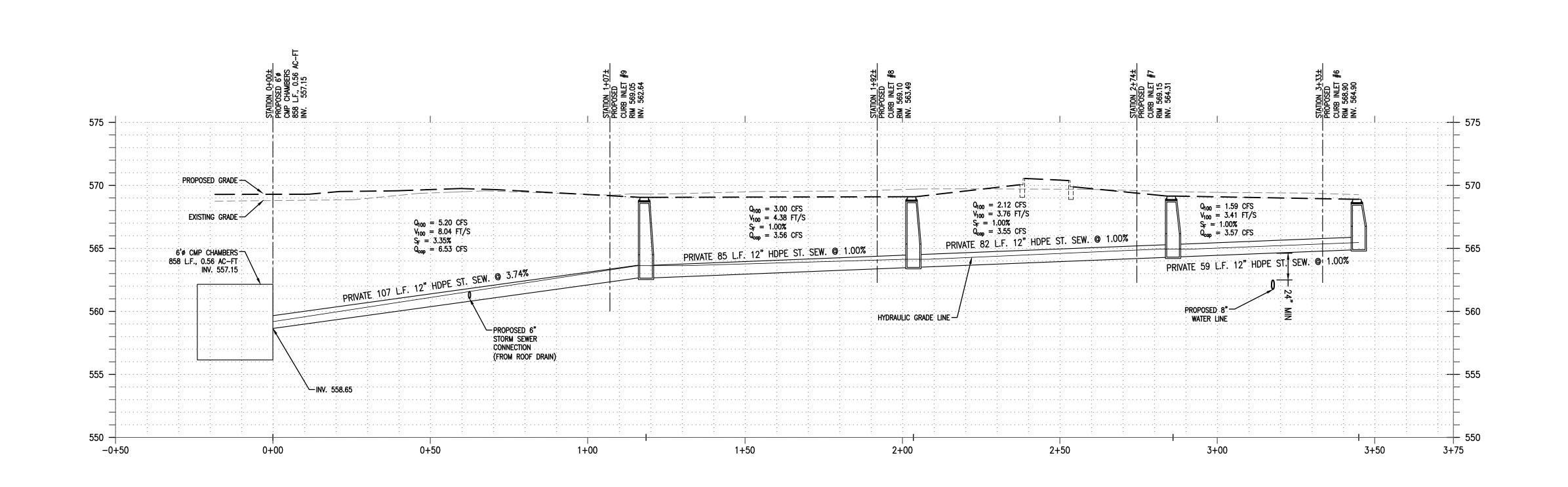


PROJECT NUMBER

SHEET TITLE

STORM SEWER PROFILES





PROPOSED STORM SEWER PROFILE # 2

PROFILE VIEW

H: 1" = 10'V: 1" = 2'

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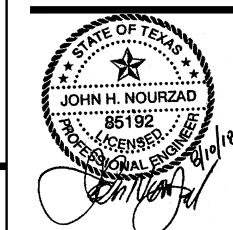
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PROFESSIONAL IN CHARGE JOHN NOURZAD PROFESSIONAL ENGINEER LICENSE NO. 85192 PROJECT MANAGER JEFF RATH

QUALITY CONTROL LARRY DIEHL DRAWN BY MITCH HEFFERNAN

PROJECT NAME TEXAS

ROCKWALL TEXAS

ROADHOUSE

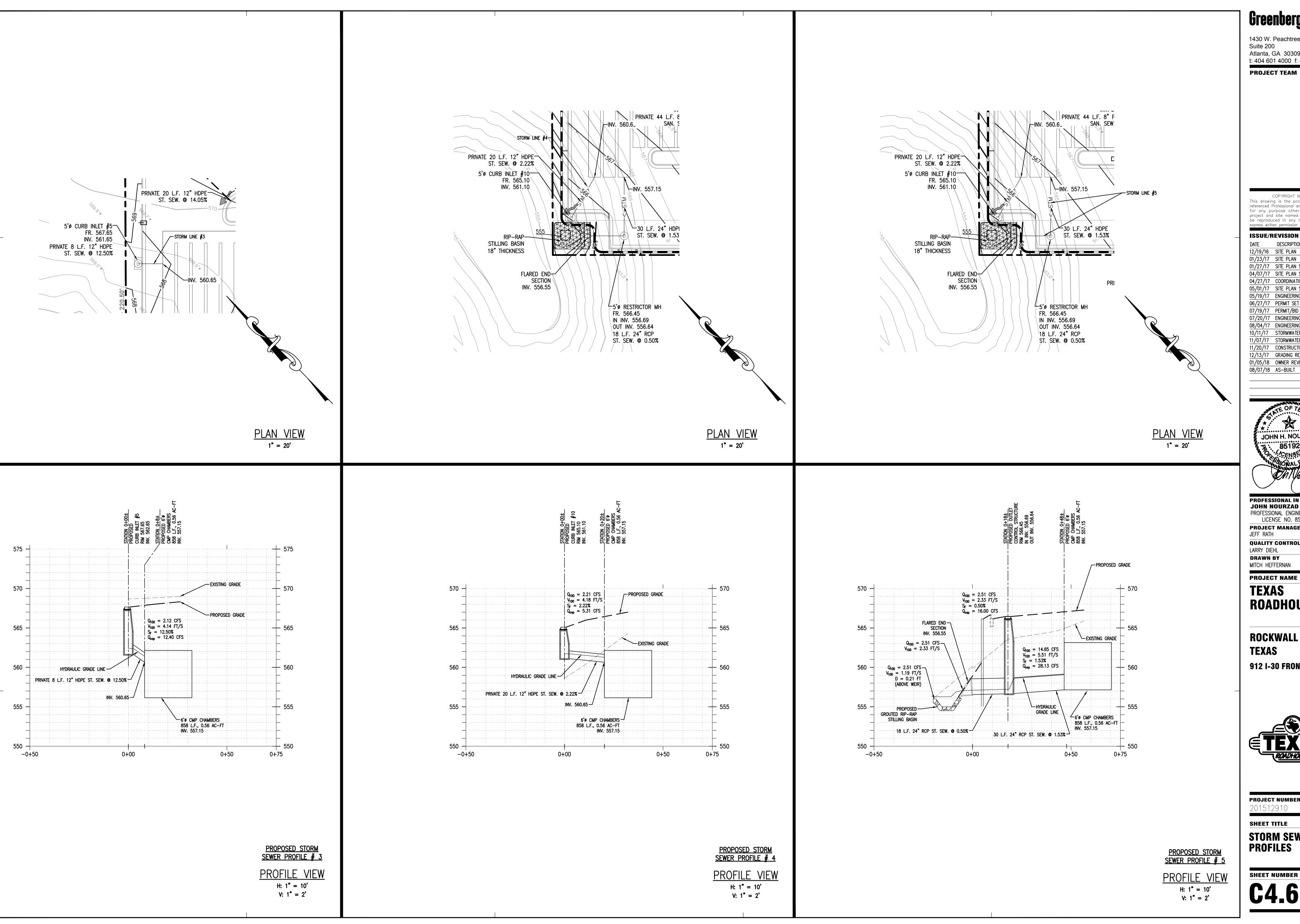
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PROJECT NUMBER

SHEET TITLE

STORM SEWER PROFILES



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JOHN H. NOURZAD

PROFESSIONAL IN CHARGE **JOHN NOURZAD** PROFESSIONAL ENGINEER

LICENSE NO. 85192 PROJECT MANAGER

JEFF RATH **QUALITY CONTROL** LARRY DIEHL

DRAWN BY MITCH HEFFERNAN

TEXAS ROADHOUSE

ROCKWALL

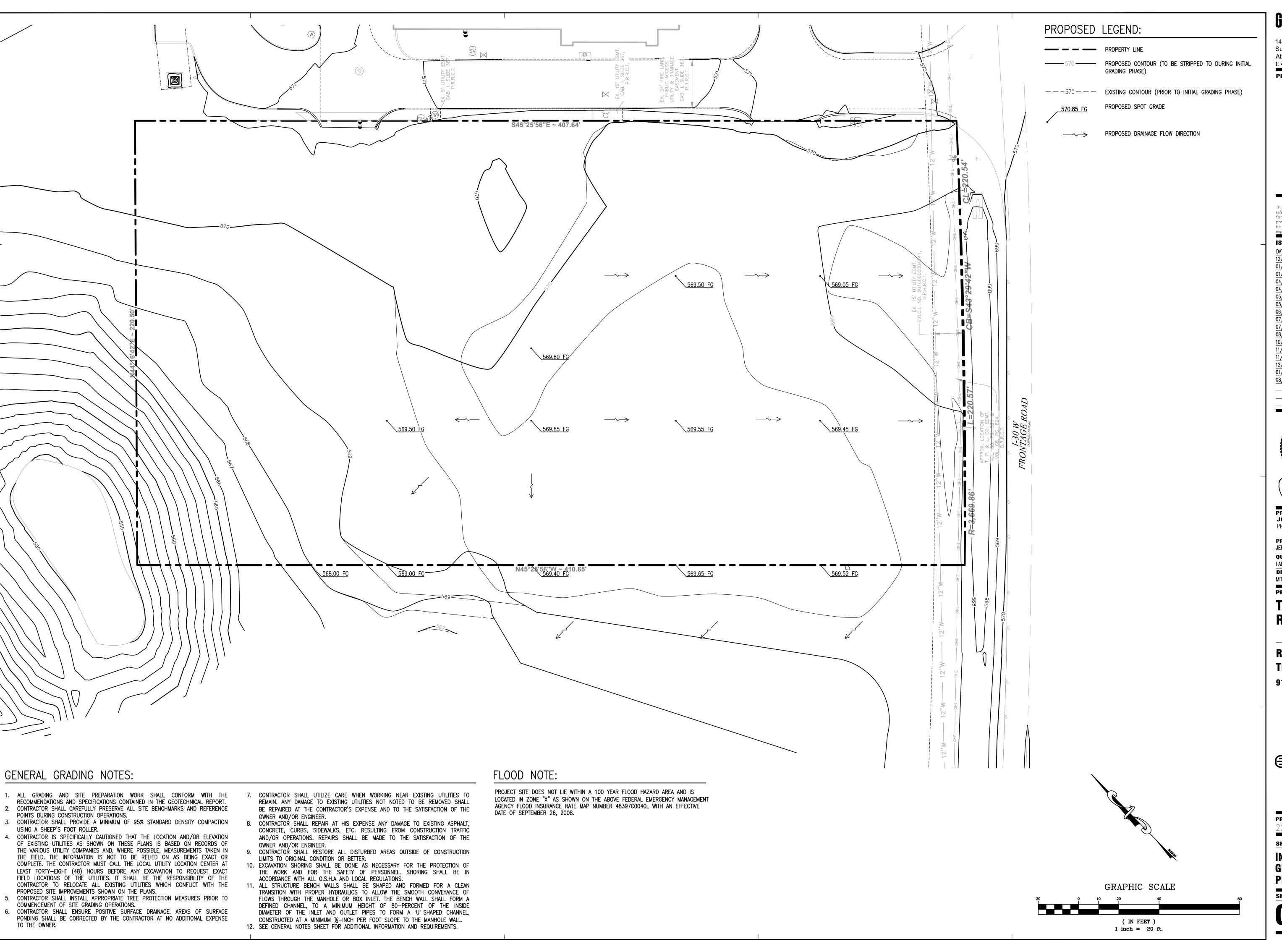
912 I-30 FRONTAGE ROAD



PROJECT NUMBER

SHEET TITLE

STORM SEWER PROFILES



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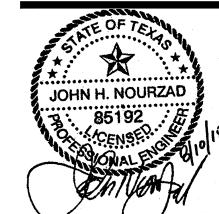
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PROFESSIONAL IN CHARGE **JOHN NOURZAD** PROFESSIONAL ENGINEER

LICENSE NO. 85192 PROJECT MANAGER JEFF RATH

QUALITY CONTROL LARRY DIEHL DRAWN BY

> MITCH HEFFERNAN PROJECT NAME

TEXAS ROADHOUSE

ROCKWALL TEXAS

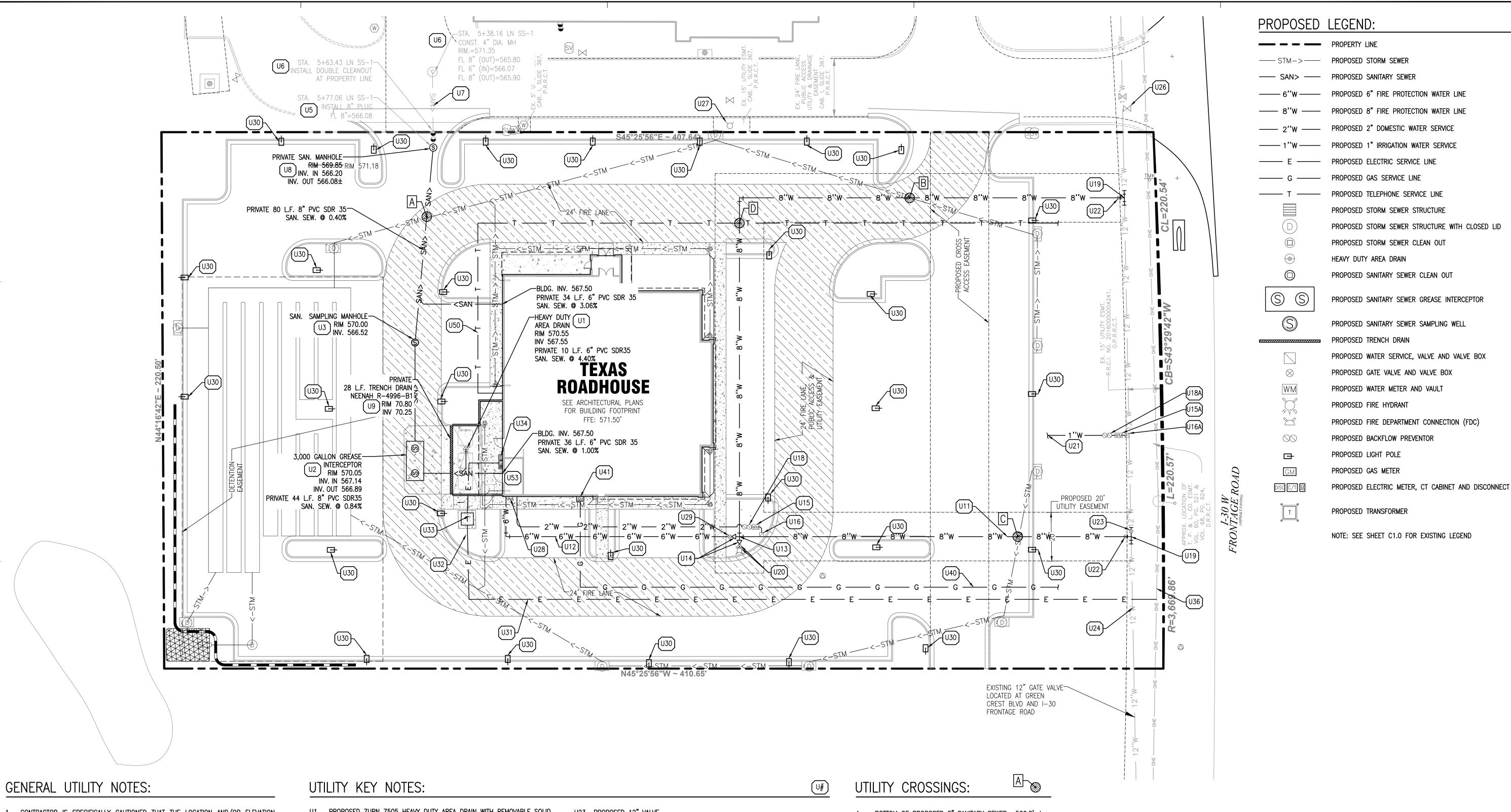
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PROJECT NUMBER

SHEET TITLE

INITIAL **GRADING PLAN**



- 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 LOCAL UTILITY LOCATION CENTER AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED SITE IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE
- OWNER AND/OR ENGINEER. CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO COMMENCING ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 4. ALL PROPOSED CONNECTIONS TO EXISTING UTILITY STRUCTURES OR PIPING SHALL BE IN ACCORDANCE WITH THE APPLICABLE GOVERNING AUTHORITY REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL EXISTING SEWER SYSTEMS DURING CONSTRUCTION OPERATIONS AS NECESSARY TO PREVENT SILT OR DEBRIS
- 6. SEE THE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS INCLUDING ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.

- U1 PROPOSED ZURN Z505 HEAVY DUTY AREA DRAIN WITH REMOVABLE SOLID COVER OPTION—SC TO CONNECT TO SANITARY SEWER SYSTEM (COORDINATE WITH ARCHITECTURAL AND PLUMBING PLANS)
- U2 PROPOSED 3,000 GALLON SANITARY SEWER GREASE INTERCEPTOR (SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DETAIL)
- U3 PROPOSED SANITARY SEWER SAMPLING WELL (SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DETAIL)
- U5 CONNECT PROPOSED 8" SANITARY SEWER TO EXISTING 8" SANITARY SEWER PER LOCAL CODES (CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ELEVATION OF EXISTING SANITARY INVERT PRIOR TO INSTALLING PROPOSED SANITARY SEWER LINES)
- U6 EXISTING SANITARY SEWER STRUCTURE TO REMAIN EXISTING SANITARY SEWER LINE TO REMAIN
- PROPOSED SANITARY SEWER MANHOLE PER NCTCOG 4TH EDITION STANDARDS U32 PROPOSED ELECTRIC TRANSFORMER LOCATION (CONTRACTOR SHALL AND CITY OF ROCKWALL STANDARDS
- PROPOSED NEENAH R-4996-A1 TRENCH DRAIN WITH CLOSED LID AND BOTTOM CONNECTION (CONTRACTOR TO CONNECT BOTTOM CONNECTION TO PROPOSED SANITARY LINE)
- U11 PROPOSED 8" D.I.P. CLASS 53 FIRE PROTECTION WATER SERVICE LINE U12 PROPOSED 6" D.I.P. CLASS 53 FIRE PROTECTION WATER SERVICE LINE
- U13 PROPOSED 8"X8"X6"X6" D.I. CROSS
- U14 PROPOSED 8"X6" D.I. REDUCER U15 PROPOSED 2" WATER METER AND METER VAULT PER LOCAL CODES U15A PROPOSED 1" WATER METER AND METER VAULT PER LOCAL CODES
- U16 PROPOSED 2" DOMESTIC WATER SERVICE CONNECTION PER LOCAL CODES U16A PROPOSED 1" DOMESTIC WATER SERVICE CONNECTION PER LOCAL CODES U18 PROPOSED 2" DOMESTIC BACKFLOW PREVENTION DEVICE WITH DOUBLE CHECK PER LOCAL CODES
- U18A PROPOSED 1" DOMESTIC BACKFLOW PREVENTION DEVICE WITH DOUBLE CHECK PER LOCAL CODES
- U19 PROPOSED PRESSURE 12"x8" CUT IN TEE WITH SOLID SLEEVE CONNECTIONS PER LOCAL CODES.
- U20 PROPOSED FIRE HYDRANT AND AUXILIARY VALVE PER LOCAL CODES U21 PROPOSED 1" TYPE K COPPER IRRIGATION WATER LINE STUB
- U22 PROPOSED 8" VALVE

U23 PROPOSED 12" VALVE

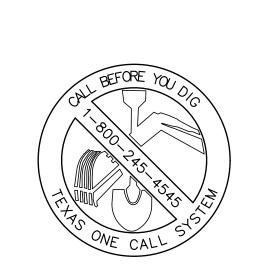
- U24 EXISTING WATER MAIN TO REMAIN
- U26 EXISTING WATER VALVE TO REMAIN U27 EXISTING FIRE HYDRANT TO REMAIN
- U28 PROPOSED FIRE DEPARTMENT CONNECTION (FDC) PER LOCAL CODE
- U29 PROPOSED 6" VALVE U30 PROPOSED LIGHT POLE (SEE PHOTOMETRIC PLAN AND BUILDING ELECTRICAL
- PLANS FOR ADDITIONAL INFORMATION AND DETAIL) U31 PROPOSED PRIMARY ELECTRIC SERVICE LINE. LINE MUST BE UNDERGROUND. (CONTRACTOR SHALL COORDINATE NEW BUILDING ELECTRIC SERVICE ROUTING AND INSTALLATION REQUIREMENTS WITH POWER COMPANY PRIOR TO ANY EXCAVATION OR INSTALLATION OF CONDUITS. SEE BUILDING ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS
- COORDINATE TRANSFORMER LOCATION, SIZE AND DESIGN WITH POWER
- COMPANY) U33 SECONDARY POWER - SEE SHEET E3, DETAIL 1 FOR SECONDARY ELECTRICAL POWER REQUIREMENTS - CONDUIT AND WIRE QUANTITY AND SIZE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR
- U34 PROPOSED ELECTRIC SERVICE METER, CT CABINET AND DISCONNECT LOCATION (SEE BUILDING ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND DETAIL) U36 EXISTING ELECTRIC SERVICE LINE TO REMAIN
- U40 PROPOSED GAS SERVICE LINE (CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION REQUIREMENTS WITH GAS COMPANY. SEE BUILDING MECHANICAL PLANS FOR ADDITIONAL INFORMATION AND DETAIL) U41 PROPOSED GAS SERVICE METER (CONTRACTOR SHALL COORDINATE METER
- ADDITIONAL INFORMATION AND DETAIL) U50 PROPOSED (2) 2" PVC SCHEDULE 80 CONDUITS WITH PULL WIRE FOR NEW TELEPHONE AND CABLE TELEVISION SERVICE LINES (CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION REQUIREMENTS WITH TELEPHONE AND CABLE COMPANIES. SEE BUILDING ELECTRICAL PLANS FOR ADDITIONAL

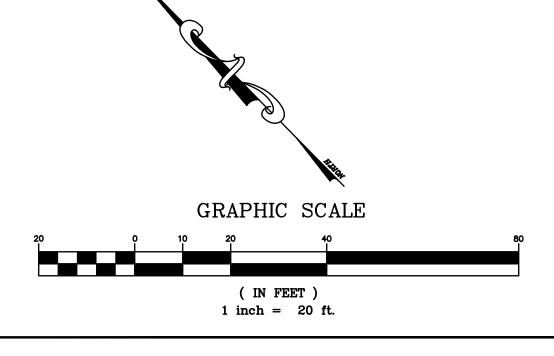
LOCATION WITH GAS COMPANY AND BUILDING MECHANICAL PLANS FOR

INFORMATION AND DETAIL) U53 PROPOSED BUILDING MECHANICAL ROOM (SHOWN FOR REFERENCE ONLY) A BOTTOM OF PROPOSED 8" SANITARY SEWER =566.2' \pm TOP OF PROPOSED 12" STORM SEWER =563.0' ±

VERTICAL SEPARATION = 3.2'

- B BOTTOM OF PROPOSED 12" STORM SEWER = $564.3' \pm$ TOP OF PROPOSED 8" WATER LINE =562.3' ± VERTICAL SEPARATION = 2.0'
- BOTTOM OF PROPOSED 12" STORM SEWER =564.5' ± TOP OF PROPOSED 8" WATER LINE =562.5' ± VERTICAL SEPARATION = 2.0'
- BOTTOM OF PROPOSED TELEPHONE LINE =567.2' ± TOP OF PROPOSED 8" WATER LINE =566.2' ± VERTICAL SEPARATION = 1.0'



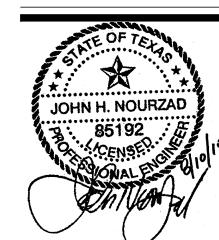


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08/07/18 AS-BUILT

PROFESSIONAL IN CHARGE **JOHN NOURZAD** PROFESSIONAL ENGINEER LICENSE NO. 85192

PROJECT MANAGER JEFF RATH **QUALITY CONTROL** LARRY DIEHL

> MITCH HEFFERNAN **PROJECT NAME**

DRAWN BY

TEXAS ROADHOUSE

ROCKWALL TEXAS

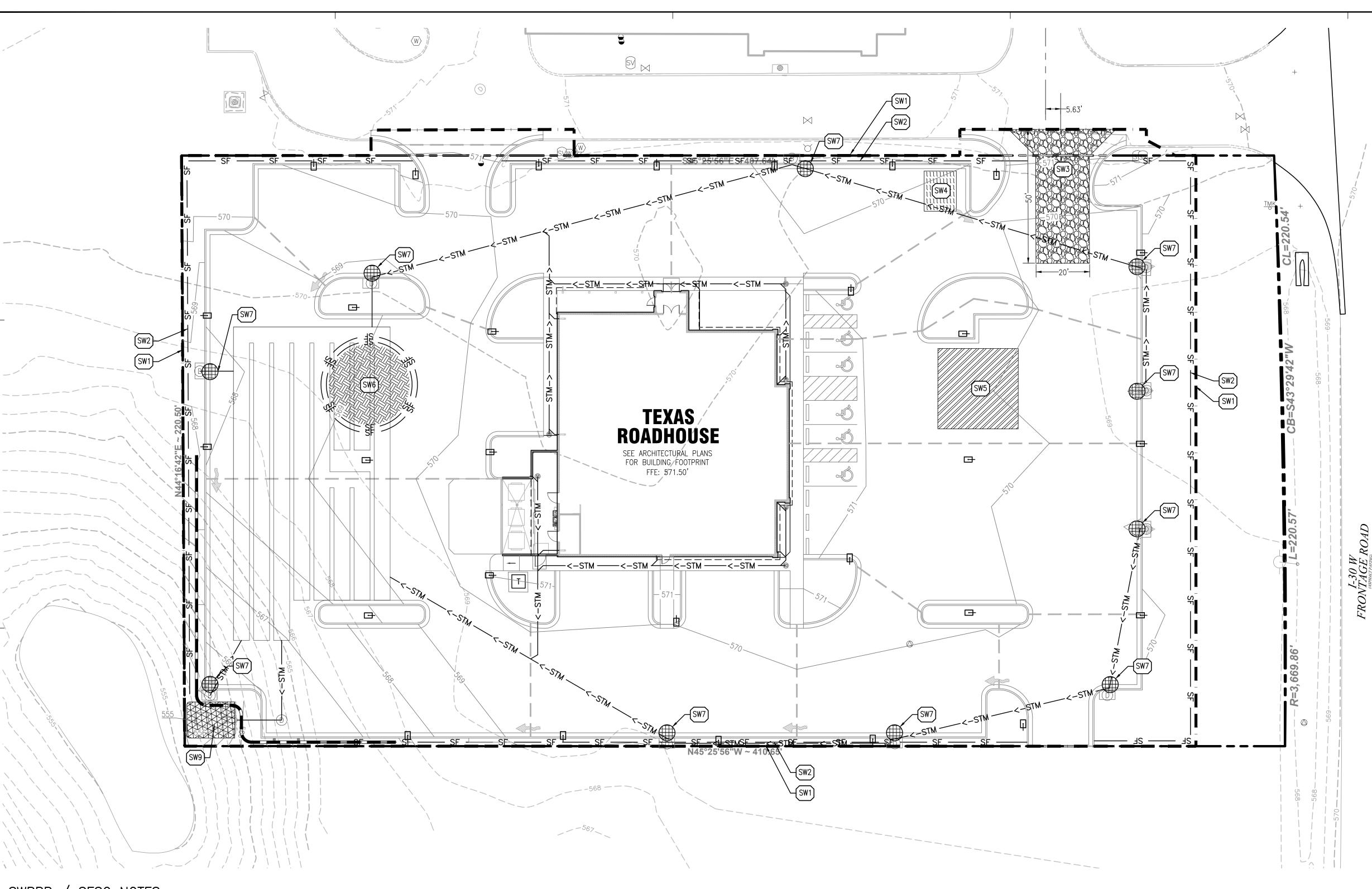
912 I-30 FRONTAGE ROAD



PROJECT NUMBER

SHEET TITLE

PLAN



SWPPP / SESC NOTES:

PRACTICABLE.

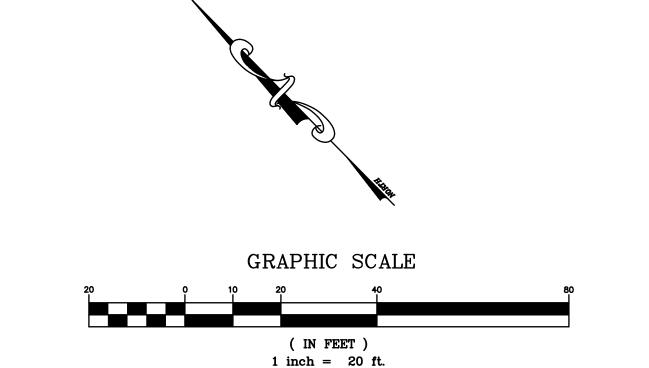
- COPIES OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLANS OR STORMWATER POLLUTION PREVENTION PLANS (SWPPP) SHALL BE MAINTAINED ON THE SITE AT ALL TIMES ALONG WITH ANY NECESSARY PERMITS AND INSPECTION
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED.
- CONTRACTOR SHALL IMPLEMENT SITE SPECIFIC BEST MANAGEMENT PRACTICES (BMPS) AS SHOWN AND REQUIRED BY THE SWPPP/SESC. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED BY THE CONTRACTOR AS DICTATED BY SITE CONDITIONS OR THE PROJECT GOVERNING AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- ALL BEST MANAGEMENT PRACTICES AND CONTROLS SHALL CONFORM TO THE APPLICABLE FEDERAL, STATE, OR LOCAL REQUIREMENTS, STANDARDS, AND SPECIFICATIONS OR MANUAL OF PRACTICE.
- 5. IF AFTER REPEATED FAILURE ON THE PART OF THE CONTRACTOR TO PROPERLY CONTROL SOIL EROSION, SEDIMENT AND/OR POLLUTION FROM THE PROJECT SITE, THE GOVERNING AUTHORITIES RESERVE THE RIGHT TO EFFECT NECESSARY CORRECTIVE MEASURES AND CHARGE ANY COSTS TO THE CONTRACTOR.
- INLET PROTECTION SHALL BE INSTALLED AROUND EACH INLET OR CATCH BASIN WITHIN THE VICINITY OF THE DISTURBED AREA LIMITS AS SHOWN ON THE PLANS. THESE SHALL BE MAINTAINED UNTIL THE TRIBUTARY DRAINAGE AREAS HAVE ADEQUATE GRASS COVER AND/OR APPROPRIATE GROUND STABILIZATION.
- ALL STREETS ADJACENT TO THE PROJECT SITE SHALL BE KEPT FREE OF DIRT. MUD AND DEBRIS. CONTRACTOR SHALL CLEAN ADJACENT PAVEMENTS AT THE END OF EACH WORKING DAY WHEN NECESSARY.
- CONTRACTORS SHALL MINIMIZE BARE EARTH SURFACES DURING CONSTRUCTION TO
- THE EXTENT PRACTICABLE. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS IS

- 10. IF DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, OR DITCHES SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE MATERIAL SHALL BE REMOVED.
- 11. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEMS BY THE USE OF INLET PROTECTION OR OTHER APPROVED FUNCTIONAL METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- 12. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- 13. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 14. DUST SHALL BE ADEQUATELY CONTROLLED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. 15. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED TRASH CONTAINERS. MATERIALS SHALL BE PREVENTED

FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER

- DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. 16. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED OR OTHERWISE DISCHARGED FROM THE SITE INTO SEDIMENT BASINS, SILT TRAPS, DEWATERING BAGS OR POLYMER MIXING SWALES. DEWATERING DIRECTLY INTO FIELD TILES OR
- STORMWATER SYSTEMS IS PROHIBITED. 17. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED WITHIN THREE (3) DAYS OF
- FINAL DISTURBANCE. 18. ALL SOIL STOCKPILES SHALL BE STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
- 19. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE

- CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR
- PERMANENTLY CEASED AS FOLLOWS: 19.1. WHEN THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 19.2. WHEN CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED (I..E. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASES.
- 20. PRE-QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). REQUIRED REPAIRS SHOULD BE COMPLETED WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION. 21. EROSION CONTROL BLANKETS SHALL BE USED IN AREAS OF 4:1 SLOPE OR
- 22. ALL TEMPORARY EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT
- SHALL BE PROPERLY STABILIZED OR DISPOSED OF OFF SITE BY THE CONTRACTOR. 23. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY STORM WATER POLLUTION PREVENTION PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW.
- 24. ALL CONSTRUCTION VEHICLE TRAFFIC MUST REMAIN WITHIN THE LIMITS OF CONSTRUCTION.



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DESCRIPTION

04/27/17 COORDINATION SET 05/01/17 SITE PLAN SUBMITTA 05/19/17 ENGINEERING REVIEW

07/19/17 PERMIT/BID SET 07/20/17 ENGINEERING REVIEW 08/04/17 ENGINEERING REVIEW

SW4 PROPOSED CONCRETE WASHOUT WITH MINIMUM 30-MIL POLYETHYLENE LINING

AND LOCATION SIGNAGE SW5 PROPOSED CONTRACTOR STAGING AREA INCLUDING MATERIALS STORAGE,

COVERED TRASH DUMPSTER, AND PORTABLE TOILET FACILITIES SW6 PROPOSED TEMPORARY TOPSOIL STOCKPILE WITH DOUBLE SILT FENCE

SW7 PROPOSED INLET PROTECTION

SWPPP KEY NOTES:

SW2 PROPOSED SILT FENCE

PROPOSED LEGEND:

SW3

SW5

SW9

- PROPERTY LINE

----- PROPOSED CONTOUR

PROPOSED SILT FENCE

LAND DISTURBANCE LIMITS (SEE DISTURBED AREA TABLE)

PROPOSED STABILIZED CONSTRUCTION ENTRANCE

PROPOSED CONCRETE WASHOUT (SUGGESTED LOCATION)

PROPOSED CONTRACTOR STAGING AREA (SUGGESTED LOCATION)

PROPOSED TEMPORARY TOPSOIL STOCKPILE (SUGGESTED LOCATION)

PROPOSED INLET PROTECTION INSERT

PROPOSED EROSION CONTROL BLANKET

PROPOSED RIP-RAP

—— PROPOSED STORM SEWER

SW1 PROPOSED PROJECT LAND DISTURBANCE LIMITS

SW3 PROPOSED STABILIZED CONSTRUCTION ENTRANCE

PROPOSED LIGHT POLE

PROPOSED GRADING RIDGE LINE

PROPOSED DRAINAGE FLOW DIRECTION

PROPOSED OVERLAND FLOOD ROUTE

PROPOSED STORM SEWER STRUCTURES

SW8 PROPOSED EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC150) SW9 PROPOSED GROUTED RIP-RAP STILLING BASIN (SEE C7.2 FOR DETAILS)

SWPPP/SESC CONSTRUCTION SCHEDULE:

- OBTAIN ALL APPLICABLE SITE PERMITS AND THOROUGHLY REVIEW PROJECT'S SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) OR STORMWATER POLLUTION PREVENTION PLANS (SWPPP) PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP/SESC THROUGHOUT THE DURATION OF CONSTRUCTION AS NECESSARY UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
- INSTALL PERIMETER SEDIMENT CONTROL MEASURES (I.E. SILT FENCE AND

STABILIZED CONSTRUCTION ENTRANCE). 3. INSTALL INLET PROTECTION DEVICES FOR EXISTING STORM SEWER INLETS AND

DRAINAGE STRUCTURES. 4. PERFORM SITE INSPECTIONS ON A WEEKLY BASIS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). AT A MINIMUM, THE INSPECTIONS SHALL INCLUDE THE DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, ALL STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ANY ADDITIONAL BEST

MANAGEMENT PRACTICES IDENTIFIED IN THE SWPPP/SESC. 4.1. ALL SITE EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE CONTINUOUSLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL MAKE AND COMPLETE THE REQUIRED REPAIRS WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.

CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL STRUCTURAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE SITE INSPECTIONS. INSTALL NEW STORM SEWERS AND OTHER SITE UTILITIES AS INDICATED ON THE PLANS. INSTALLATION OF STORM SEWERS INCLUDING ALL DETENTION SYSTEMS

MUST BE DONE PRIOR TO ANY PAVING INCLUDING SLAB. 6. PROVIDE TEMPORARY SEEDING AND/OR MULCHING FOR ALL DISTURBED SITE AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN FOURTEEN (14) DAYS.

INSTALL TEMPORARY CONCRETE WASHOUT FACILITY PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK ON SITE.

8. INSTALL CURBS AND BEGIN SITE PAVING OPERATIONS (I.E. DRIVEWAYS, SIDEWALKS, ETC.)

9. PERFORM STREET CLEANING OPERATIONS AND OTHER BEST MANAGEMENT PRACTICES AS NEEDED FOR AREAS ADJACENT TO THE PROJECT SITE. 10. INSTALL BUILDING FOUNDATION AND COMPLETE BUILDING CONSTRUCTION AND

REMAINING SITE IMPROVEMENTS. 11. REMOVE ALL TEMPORARY SITE EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION ONCE PERMANENT STABILIZATION OF THE ENTIRE SITE HAS BEEN COMPLETED AND ALL GROUND COVER IS ESTABLISHED.

DISTURBED SITE AREA TABLE:

TOTAL DISTURBED AREA: 84,797 SQ. FT. / 1.95 ACRES

IMPERVIOUS AREA: 70,272 SQ. FT. / 1.61 ACRES PERVIOUS AREA: 14,525 SQ. FT. / 0.33 ACRES

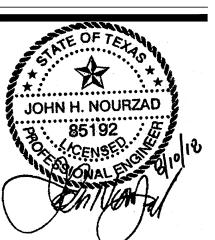
ISSUE/REVISION RECORD

12/19/16 SITE PLAN 01/23/17 SITE PLAN 01/27/17 SITE PLAN SUBMITTAI 04/07/17 SITE PLAN SUBMITTA

06/27/17 PERMIT SET

STORMWATER REVISIONS 11/07/17 STORMWATER REVISIONS

11/20/17 CONSTRUCTION SET 12/13/17 GRADING REVISIONS 01/05/18 OWNER REVISIONS 08/07/18 AS-BUILT



PROFESSIONAL IN CHARGE JOHN NOURZAD PROFESSIONAL ENGINEER

LICENSE NO. 85192 **PROJECT MANAGER** JEFF RATH **QUALITY CONTROL**

LARRY DIEHL DRAWN BY MITCH HEFFERNAN

ROADHOUSE

PROJECT NAME

ROCKWALL

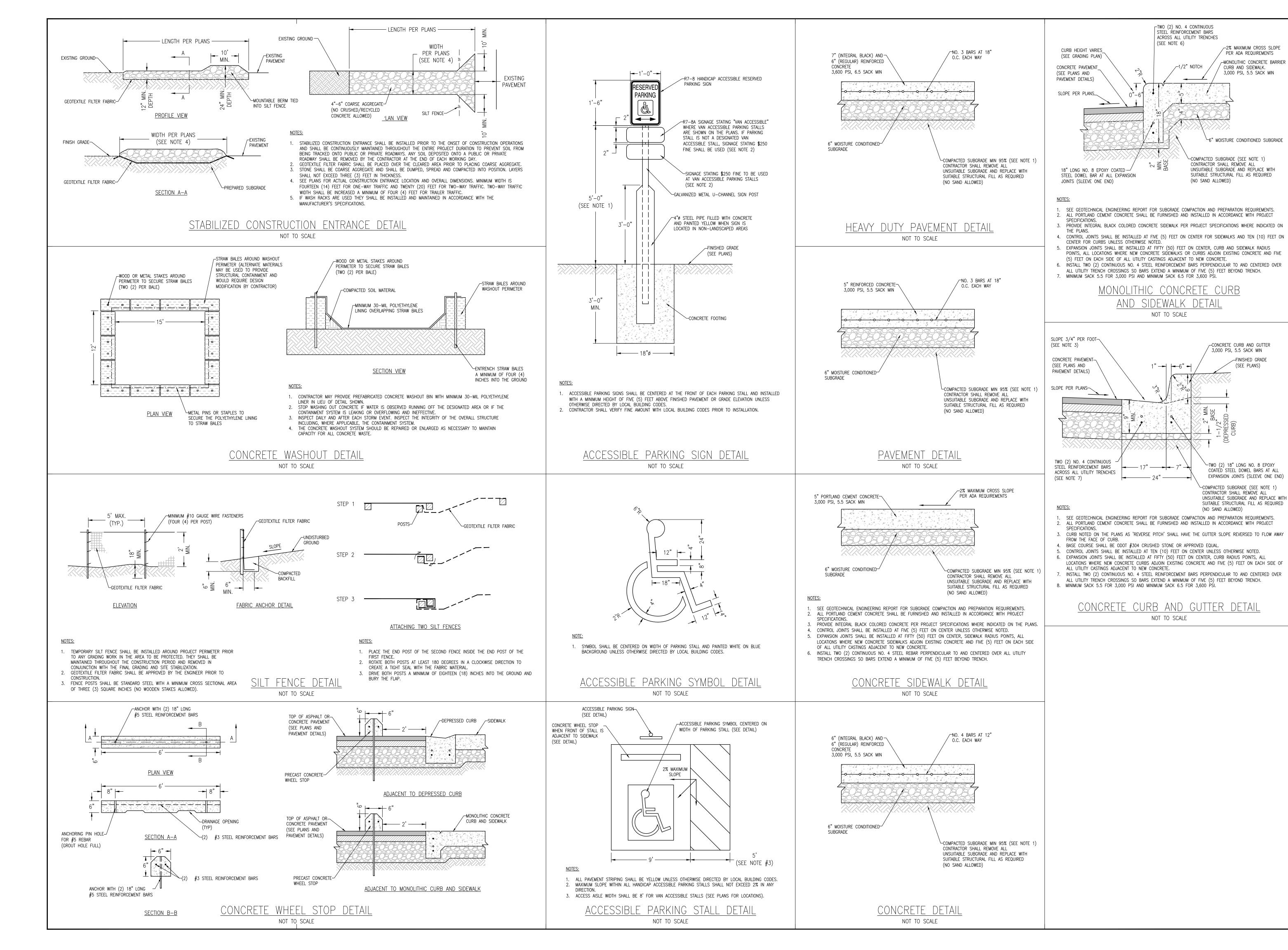
TEXAS 912 I-30 FRONTAGE ROAD



PROJECT NUMBER

SHEET TITLE **STORMWATER POLLUTION**

PREVENTION PLAN



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08/07/18 AS—BUILT

JOHN H. NOURZAD

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PROFESSIONAL IN CHARGE

JOHN NOURZAD
PROFESSIONAL ENGINEER
LICENSE NO. 85192

PROJECT MANAGER
JEFF RATH

QUALITY CONTROL LARRY DIEHL DRAWN BY

MITCH HEFFERNAN
PROJECT NAME

TEXAS ROADHOUSE

ROCKWALL TEXAS

912 I-30 FRONTAGE ROAD



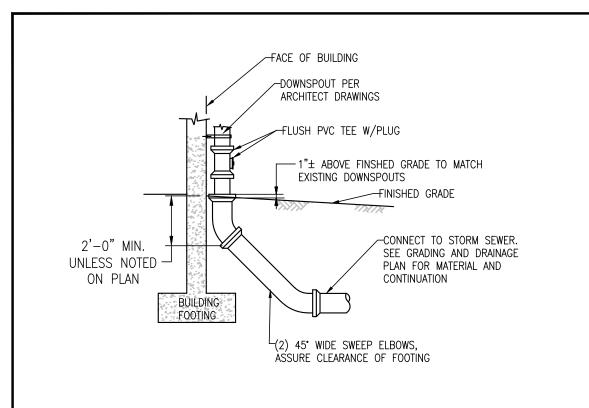
PROJECT NUMBER

SHEET TITLE

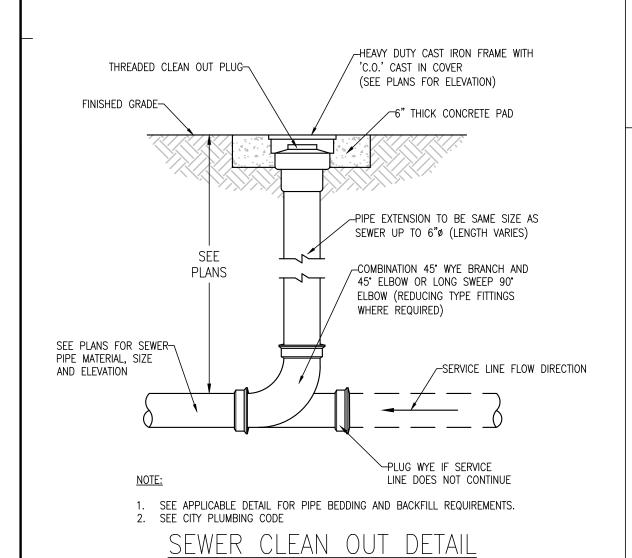
CONSTRUCTION DETAILS

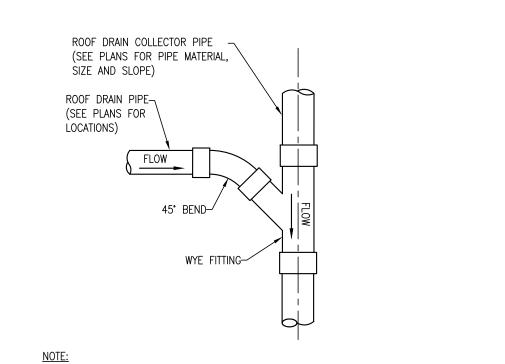
SHEET NUMBER

C7.0



PRIVATE DOWNSPOUT LEADER DETAIL NOT TO SCALE

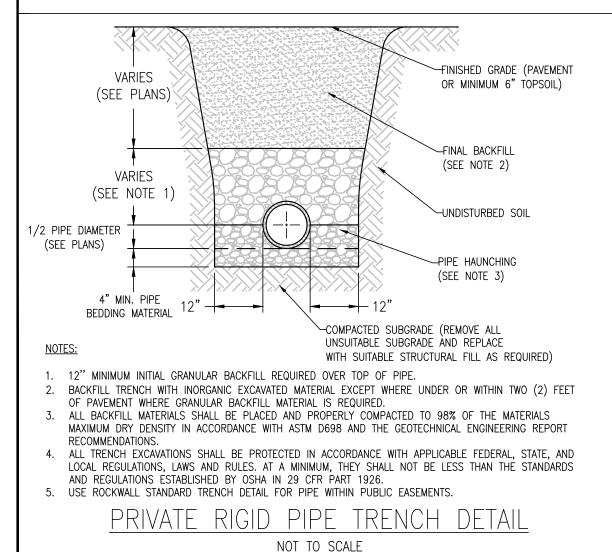


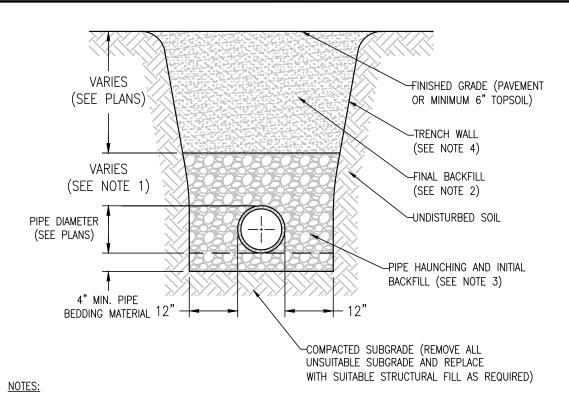


1. CONTRACTOR SHALL PROVIDE RISER PIPE AND ADDITIONAL FITTINGS AS NECESSARY TO CONNECT ROOF DRAIN LEADERS TO ROOF DRAIN COLLECTOR PIPE.

PRIVATE ROOF DRAIN WYE CONNECTION DETAIL

NOT TO SCALE



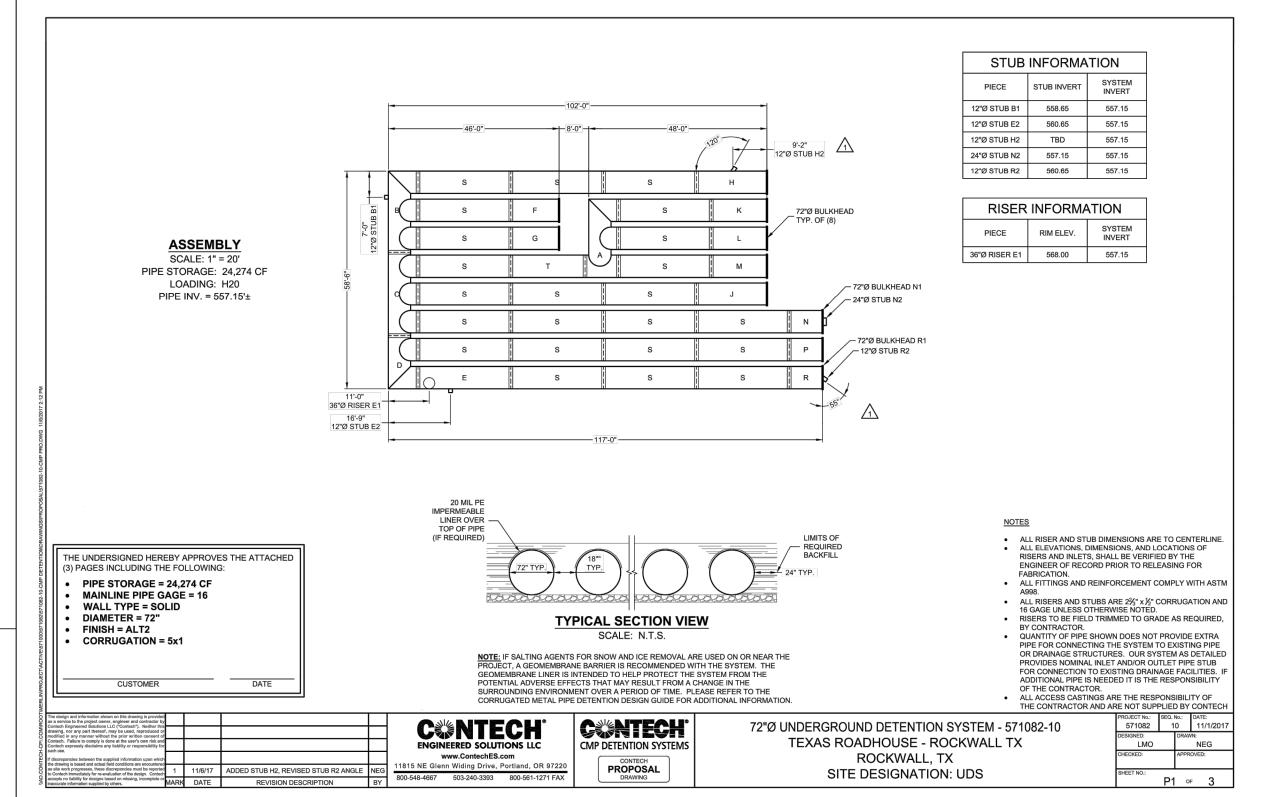


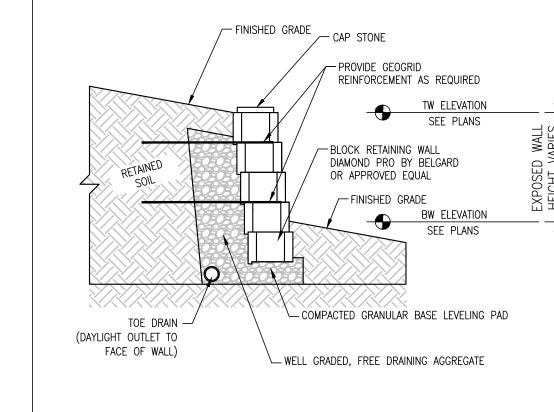
- 1. 12" MINIMUM INITIAL GRANULAR BACKFILL REQUIRED OVER TOP OF PIPE FOR PIPES UP TO AND INCLUDING 48" IN DIAMETER. 18" MINIMUM GRANULAR BACKFILL REQUIRED OVER TOP OF PIPE FOR PIPES GREATER THAN 48" IN DIAMETER.
- BACKFILL TRENCH WITH INORGANIC EXCAVATED MATERIAL EXCEPT WHERE UNDER OR WITHIN TWO (2) FEET
 OF PAVEMENT WHERE GRANULAR BACKFILL MATERIAL IS REQUIRED.
 ALL BACKFILL MATERIALS SHALL BE PLACED AND PROPERLY COMPACTED TO 98% OF THE MATERIALS
- MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 AND THE GEOTECHNICAL ENGINEERING REPORT RECOMMENDATIONS.

 4. ALL TRENCH EXCAVATIONS SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, LAWS AND RULES. AT A MINIMUM, THEY SHALL NOT BE LESS THAN THE STANDARDS
- AND REGULATIONS ESTABLISHED BY OSHA IN 29 CFR PART 1926. 5. USE ROCKWALL STANDARD TRENCH DETAIL FOR PIPE WITHIN PUBLIC EASEMENTS.

PRIVATE FLEXIBLE PIPE TRENCH DETAIL

NOT TO SCALE





NOTE

- DETAIL PROVIDED FOR INFORMATION PURPOSES ONLY. REFER TO SIGNED AND SEALED DRAWINGS FOR CONSTRUCTION DETAILS
- 2. REFER TO PLANS FOR RETAINING WALL LOCATIONS AND ELEVATIONS.
 3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO ENGINEER FROM RETAINING WALL MANUFACTURER.
 4. CONTRACTOR SHALL INSTALL RETAINING WALL IN ACCORDANCE WITH APPROVED MANUFACTURER'S
- GUIDELINES, SPECIFICATIONS, AND SHOP DRAWINGS.

 5. CONTRACTOR SHALL PROVIDE RETAINING WALL MATERIAL SAMPLES TO THE OWNER, ARCHITECT AND/OR
- ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

 6. SEE PRELIMINARY DESIGN BY ANCHOR WALL SYSTEMS FOR QUANTITIES, PROJECT JC 17–34

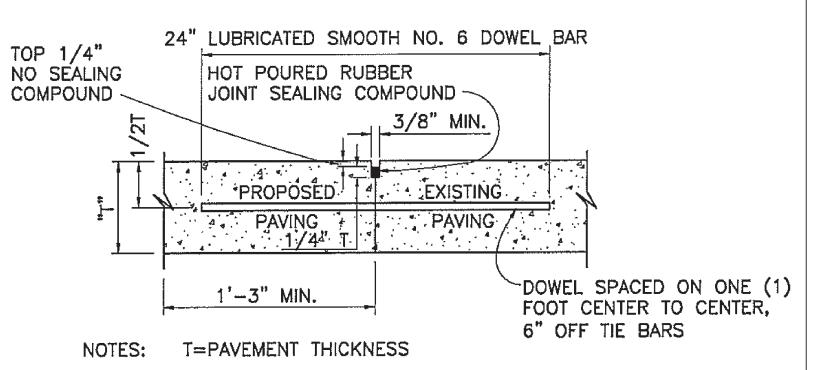
CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS TO CITY FOR REVIEW AND APPROVAL

6. SEE PRELIMINARY DESIGN BY ANCHUR WALL STSTEMS FOR QUANTITIES, PROJECT JC 17-34

BLOCK RETAINING WALL DETAIL

PRIOR TO WALL CONSTRUCTION. DESIGN BY ANCHOR WALL SYSTEMS OR APPROVED EQUAL

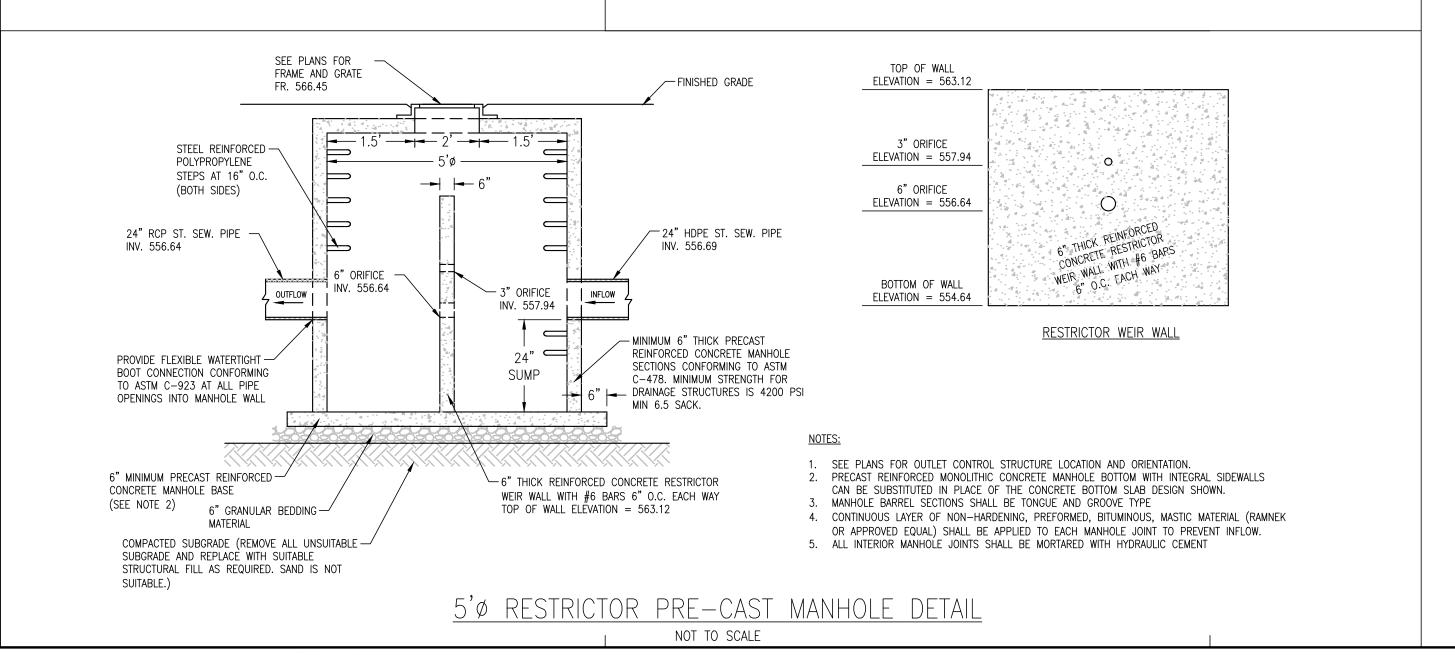
NOT TO SCALE



- 1. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
- 2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALY BY USE OF A MECHANICAL RIG.

DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE





Project: - JC 17-34 Texas Roadhouse [Rev. 1] Rockwall, TX Summary JC 17-34 Texas Roadhouse Number Modified 7/20/2017 Created National Concrete Masonry Association 3rd Edition This is a preliminary quantity estimate for facing and reinforcement. It does not include additional materials that may or may not be required to construct the wall(s) including but not limited to waste, filter fabric, drain tile, or other materials to address drop structures and other obstructions in the reinforced zone. It is the responsibility of the Contractor to verify these quantities rrovided through their own estimate. The provider or author of the Software accepts no responsibility for any discrepancies between quantities provided in this estimate and qua Facing Total Wall Steps Area [ft²] Area [ft²] Fabric Belgard® Software Version 1.0 Printed 7/20/2017 Version: 1.37.4.307

BLOCK RETAINING WALL ESTIMATES

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05/01/17 SITE PLAN SUBMITTAL

05/19/17 ENGINEERING REVIEW

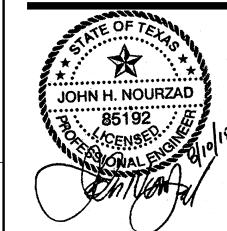
06/27/17 PERMIT SET

07/19/17 PERMIT/BID SET

07/20/17 ENGINEERING REVIEW

07/20/17 ENGINEERING REVIEW
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11/07/17 STORMWATER REVISIONS

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PROFESSIONAL IN CHARGE JOHN NOURZAD

JOHN NOURZAD
PROFESSIONAL ENGINEER
LICENSE NO. 85192
PROJECT MANAGER
JEFF RATH

QUALITY CONTROL
LARRY DIEHL
DRAWN BY

MITCH HEFFERNAN
PROJECT NAME

TEXAS Roadhouse

ROCKWALL TEXAS

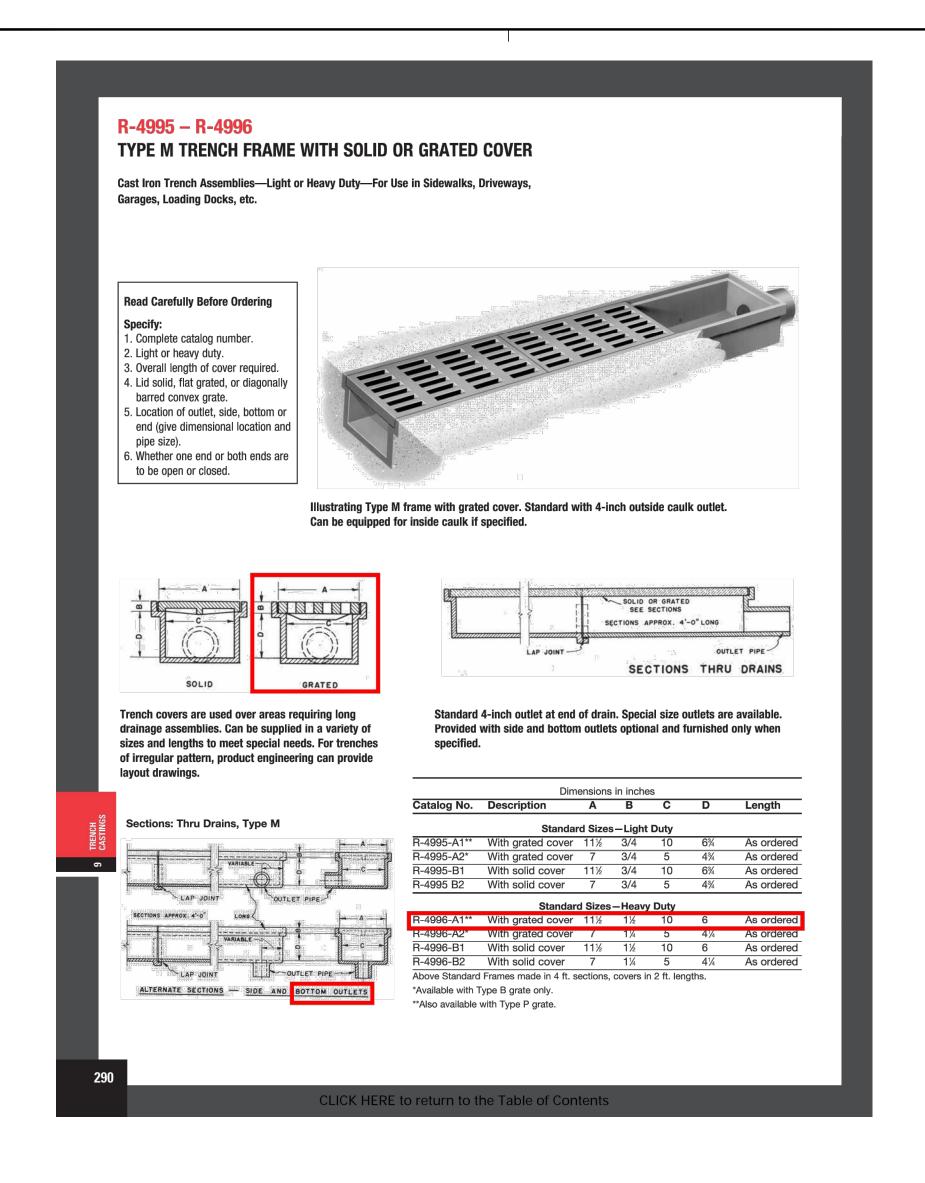
912 I-30 FRONTAGE ROAD



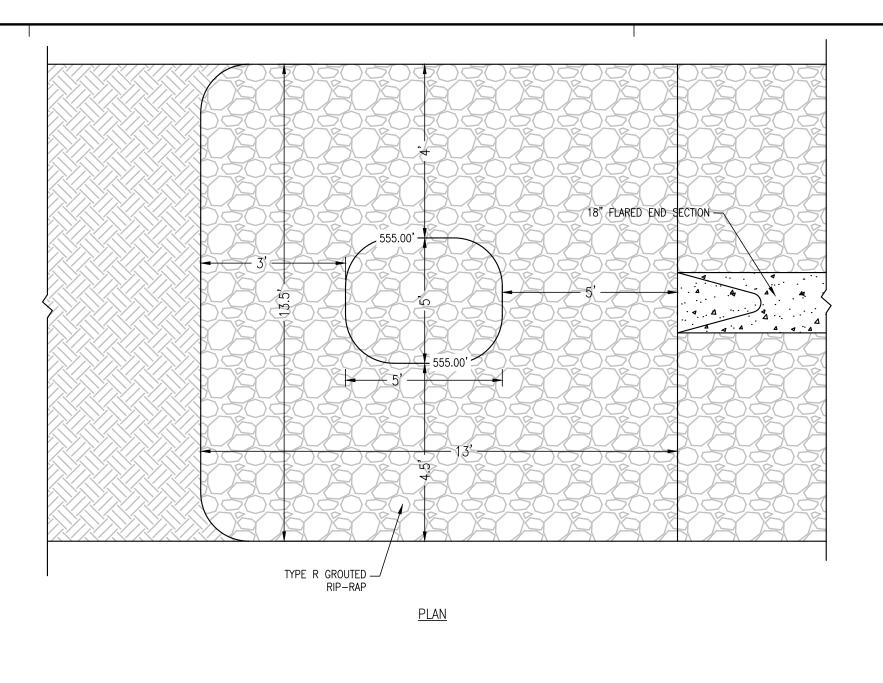
PROJECT NUMBER

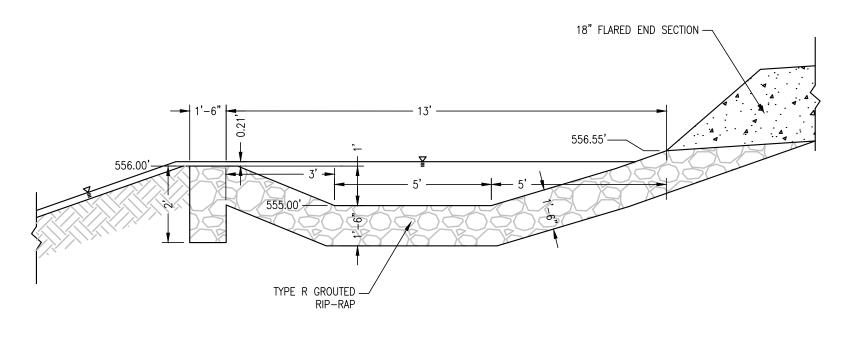
SHEET TITLE

CONSTRUCTION DETAILS









RIP-RAP STILLING BASIN DETAIL NOT TO SCALE

<u>PROFILE</u>

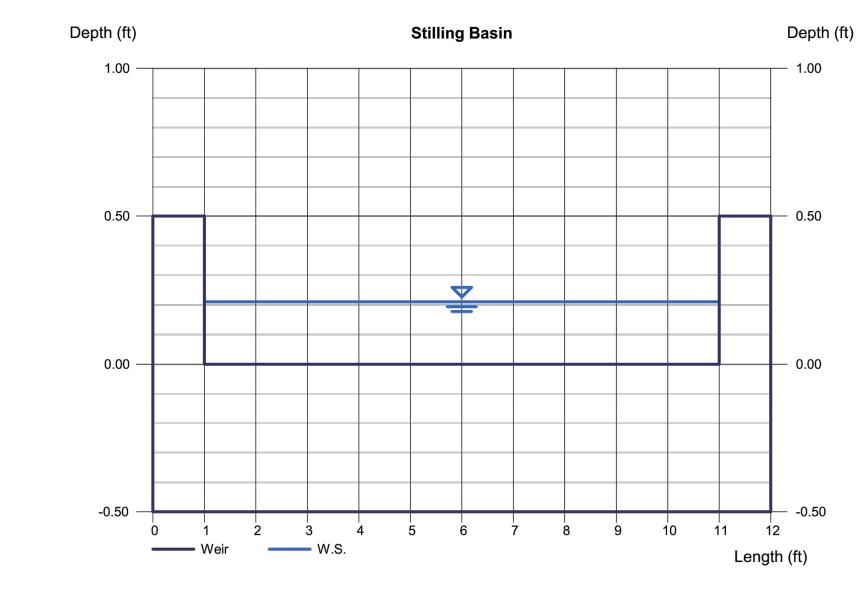
Weir Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. Thursday, Sep 14 2017

Stilling Basin

Highlighted Rectangular Weir Crest Depth (ft) = 0.21 = Broad Bottom Length (ft) = 10.00 Q (cfs) = 2.510 Total Depth (ft) = 0.50= 2.10 Area (sqft) Velocity (ft/s) = 1.19 = 10.00 Calculations Top Width (ft) Weir Coeff. Cw = 2.60

Known Q Compute by: = 2.51 Known Q (cfs)

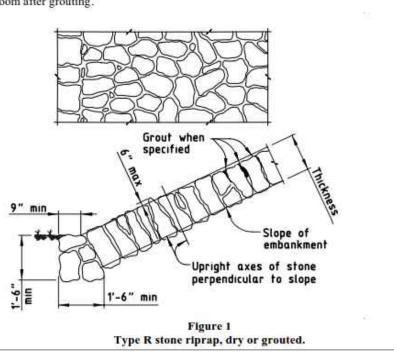


RIP-RAP STILLING BASIN WEIR REPORT NOT TO SCALE

> 1. Type R. Use stones between 50 and 250 lb. with a minimum of 50% of the stones heavier than 1. Type R. Construct riprap as shown in Figure 1 and as shown on the plans. Place stones in a single

layer with close joints so that most of their weight is carried by the earth and not by the adjacent stones. Place the upright axis of the stones at an angle of approximately 90° to the embankment slope. Place each course from the bottom of the embankment upward with the larger stones in the lower courses. Fill open joints between stones with spalls. Place stones to create a uniform finished top surface. Do not exceed a 6-in. variation between the tops of adjacent stones. Replace, embed deeper, or

chip away stones that project more than the allowable amount above the finished surface. When the plans require Type R stone riprap to be grouted, prevent earth, sand, or foreign material from filling the spaces between the stones. After the stones are in place, wet the stones thoroughly, fill the spaces between the stones with grout, and pack. Sweep the surface of the riprap with a stiff broom after grouting.



GROUTED RIP-RAP DETAIL NOT TO SCALE

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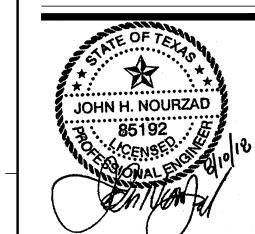
PROJECT TEAM

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11/07/17 STORMWATER REVISIONS 11/20/17 CONSTRUCTION SET 12/13/17 GRADING REVISIONS 01/05/18 OWNER REVISIONS 08/07/18 AS-BUILT



PROFESSIONAL IN CHARGE JOHN NOURZAD PROFESSIONAL ENGINEER

> LICENSE NO. 85192 PROJECT MANAGER JEFF RATH

QUALITY CONTROL LARRY DIEHL DRAWN BY MITCH HEFFERNAN

PROJECT NAME

TEXAS ROADHOUSE

ROCKWALL TEXAS

912 I-30 FRONTAGE ROAD



PROJECT NUMBER

SHEET TITLE

CONSTRUCTION -DETAILS

GRATE INLET RIM EL = 571.27

BOTTOM FLOOR EL = 566.07'

CURB INLET RIM EL = 570.61'

BOTTOM FLOOR EL = 566.40'

* VICINITY MAP *

(NOT TO SCALE)

STORM DRAIN MANHOLE

TELEPHONE RISER

* GENERAL NOTES *

- The bearings and distances shown hereon are based on a local coordinate system based on NAD83, Texas North Central Zone 4202, scaled from grid to surface at N: 7,017,297.742 and E: 2,595,433.371 using a combined scale factor of 1.0001466844, derived from GPS RTK observations using the North Texas VRS Network (maintained by Western Data Systems).
- According to the Flood Insurance Rate Map published by the Federal Emergency Management Agency, Department of Homeland Security, the subject property appears to be located in Zone "X" (areas determined to be outside the 0.2 % annual chance floodplain) as shown on Map No. 48113C0265K; map revised July 7, 2014, for Rockwall County and incorporated areas. This flood statement does not imply that the property and/or structures located in Zone "X" will be free from flooding or flood damage. This flood statement shall not create liability on the part of the Surveyor.
- Underground utilities shown hereon were taken from record information, actual locations were not field verified except at surface structures such as manholes, fire hydrants, etc. No attempt has been made as a part of this Survey to confirm, obtain or show data concerning the depth or condition of any utility or municipal/public service facility. Subsurface and environmental conditions were not examined or considered as a part of this Survey. No statement is made concerning the existence of underground or overhead containers or facilities, which may affect the use or development of the subject
- All visible underground utilities that were marked from Texas One Call 811 are shown on this survey. Underground Sewer, Water and Storm Drain lines shown are from visible evidence and provided utility plans. Pipe sizes of all underground utilities were unknown at the time of survey.
- The size or shape of the tree/bush symbols included hereon do not necessarily represent the actual size and shape of the corresponding trees/bushes or their canopies. They represent location only.
- The Surveyor has no knowledge of any changes in street right-of-way lines either completed or proposed. Surveyor hereby advises all interested parties to consult with the City of Rockwall concerning this subject prior to planning, designing or constructing improvements near any right-of-way.





CONTROL TABLE										
POINT#	DESCRIPTION	NORTHING	EASTING	ELEVATION						
904	5/8" CIRS "S&A CONTROL"	7017006.98	2595189.56	568.90'						
905	5/8" CIRS "S&A CONTROL"	7017130.99	2595335.98	568.16'						
906	5/8" CIRS "S&A CONTROL"	7017286.43	2595504.24	567.84'						
907	5/8" CIRS "S&A CONTROL"	7017410.59	2595419.94	569.78'						

* METES AND BOUNDS DESCRIPTION *

BEING a 2.0767 acre tract of land located in the John D. McFarland Survey, Abstract No. 145, City of Rockwall, Rockwall County, Texas, said 2.0767 acre tract of land being a portion of a called 14.45 acre tract of land conveyed to ROCKWALL RENTAL PROPERTIES, L.P., by deed thereof filed for record in Volume 4076, Page 48, Deed Records, Rockwall County, Texas (D.R.R.C.T.), said 2.0767 acre tract of land being more particularly described by metes and bounds as follows:

BEGINNING at a 5/8 inch iron rod with a cap stamped "ADAMS" found (Controlling Monument) at the west lot corner of Lot 1, Block 1, Rockwall-Pine Addition, being an Addition to the said City and State, according to the plat thereof filed for record in Rockwall County Clerk's Instrument No. 2016000009386, Official Public Records, Rockwall County, Texas, from said beginning point, a 1/2 inch iron rod found (Controlling Monument) at the most southerly lot corner of Lot 2, Block 1, Rockwall-Pine Addition, being an Addition to the said City and State, according to the plat thereof filed for record in Cabinet H, Slide 5, Plat Records, Rockwall County, Texas, bears North 44°16'42" East, a distance of 15.16 feet;

THENCE South 45°25'56" East, along the southwest lot line of said Lot 1, a distance of 407.64 feet to an "X" cut in concrete set at the most southerly lot corner of said Lot 1, said "X" cut set also being at the most easterly northeast property corner of the aforesaid 14.45 acre tract, and being on the existing northwest right-of-way line of Interstate Highway No. 30W (being a variable width right-of-way, a portion of said right-of-way being conveyed to the State of Texas, by deed thereof filed for record in Volume 59, Page226, Deed Records, Rockwall County, Texas), said "X" cut found also being at the beginning of a non-tangent curve to the right having a radius of 3,669.86 feet;

THENCE along the southeast property line of the said 14.45 acre tract and along the said northwest right-of-way line, with said curve to the right, an arc length of 220.57 feet, and across a chord which bears South 43°29'42" West, a chord length of 220.54 feet to a 5/8 inch iron rod with a cap stamped "SPOONER & ASSOCIATES" set (hereinafter referred to as an iron rod set) at the south property corner of the herein described tract of land;

THENCE North 45°25'56" West, departing the said property line and the said right-of-way line, over and across the said 14.45 acre tract, a distance of 410.65 feet to an iron rod set;

THENCE North 44°16'42" East, continuing over and across the said 14.45 acre tract, a distance of 220.50 feet to the **POINT OF BEGINNING**.

The hereinabove described tract of land contains a computed area of 2.0767 acres (90,460 square feet) of land, more or less.

* TITLE COMMITMENT NOTES *

This ALTA/NSPS Land Title Survey was prepared with the benefit of a copy of the commitment for Title Insurance prepared by First National Title Insurance Company, File No. 16-273752-RW, having an effective date of September 14, 2016 and issued September 25, 2016; and only reflects those easements, covenants, restrictions, and other matters of record listed in Schedule B of said Commitment. No other research for matters of record, not listed in said Commitment, was preformed by Spooner & Associates, Inc.

Schedule "B" Items

- Restrictive Covenants Volume 1865, Page 99, D.R.R.C.T. (Subject property is not a portion of the tract of land described in said document)
- 10g. Easements and Building Lines Cabinet B. Slide 383, P.R.R.C.T. (Subject property is not a portion of the tract of land shown on said plat)
- 10h Texas Power & Light Co. Easement Volume 60, Page 521, D.R.R.C.T. (Shown ~ Blanket in nature ~ Easement width not defined)
- 10i Texas Power & Light Co. Easement Volume 68, Page 624, D.R.R.C.T. (Shown ~ Blanket in nature ~ Easement width not defined)
- 10j. Special Warranty Deed Volume 1865, Page 99, D.R.R.C.T. (Subject property is not a portion of the tract of land described in said document)
- 10k. Reciprocal Easement Agreement R.C.C.I. No. 20160000010815, O.P.R.R.C.T. (Subject to ~ Subject property is a portion of the tract of land described in said document)
- 15' Utility Easement R.C.C.I. No. 2016000004241, O.P.R.R.C.T. (Shown)

* ZONING INFORMATION *

The subject property is currently zoned "C" (Commercial) within the IH-30 Overlay (IH-30 OV) District, per the City of Rockwall Zoning Map.

The Surveyor hereby advises the developer to contact the City of Rockwall Planning and Zoning Department to further verify all Zoning Restrictions prior to the development of the subject property.

* SURVEYOR'S STATEMENT *

To: ROCKWALL RENTAL PROPERTIES, L.P., TEXAS ROADHOUSE HOLDINGS, LLC, a Texas limited partnership, and First National Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 minimum standard detail requirements for ALTA/NSPS land title surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5, 6(a)(b), 7(a)(b1)(b2), 8, 9, 11, 13, 14, 16, 17, 20 & 21 of Table A thereof.

Surveyed on the ground October 6, 2016 and re-surveyed on the ground June 20, 2017

> THIS DOCUMENT IS *PRELIMINARY* FOR REVIEW PURPOSES ONLY ERIC S. SPOONER, R.P.L.S. *12-8-17*

Eric S. Spooner, R.P.L.S. Texas Registration No. 5922 TBPLS Firm No. 10054900

SSOCIATES

SUR



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DATE: 12/08/2017

S&A JOB NO. 16-156

G.F. JOB NO. 20151291

SCALE: 1" = 30'

DRAWN BY: C. REEDER

CHECKED BY: E. SPOONER

REVISIONS:

UPDATED TOPO TO REFLECT ADJOINER 06/21/2017

UPDATED TOPO TO REFLECT
FILL DIRT ADDED TO SITE
12-8-17

SHEET

OF '