

PAVEMENT NOTES

- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE REQUIREMENTS OF THE CITY OF ROCKWALL.
- THE CONTRACTOR SHALL CONSTRUCT AND STATE ALL DRIVEWAY APPROACHES IN CONFORMANCE WITH APPLICABLE CITY STANDARD ORDINANCES AND REQUIREMENTS. CONTRACTOR SHALL OBTAIN APPLICABLE DRIVEWAY OR ACCESS PERMITS PRIOR TO CONSTRUCTION OR SHALL CONFIRM THAT SUCH PERMITS HAVE BEEN OBTAINED BY OTHERS. THIS INCLUDES WORK AT THE INTERSECTION OF TOWNSEND AND I.H. 30, AND WITH UNION PACIFIC RAILROAD.
- CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITION AT TIE-IN TO EXISTING EDGE OF PAVEMENT.
- NOTIFY CITY INSPECTOR 72 HOURS BEFORE WORK BEGINS OR EARLIER IF REQUIRED BY PERMITS.
- JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOL.
- DO NOT POUR ANY CONCRETE BEFORE FORMS ARE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR AND CITY INSPECTOR.
- ALL CONCRETE FOR PAVEMENT, RIPRAP SHALL BE CLASS A 4000 P.S.I. UNLESS NOTED OTHERWISE. REFER TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION PREPARED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS.
- CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO INSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY TO INSURE POSITIVE DRAINAGE. (TYP. ALL INTERSECTIONS)
- REFER TO SITE WATER AND SEWER PLAN FOR EXISTING UNDERGROUND UTILITIES AND PROVISIONS FOR UTILITY VERIFICATION PRIOR TO CONSTRUCTION.
- JOINT SHALL INTERSECT CURBS PERPENDICULARLY ± 15 DEGREES. JOINTS SKEWED TO CURBS SHALL STOP AT A JOINT INTERSECTION OR 2 FT. FROM FACE OF CURB AND CONTINUE PERPENDICULAR TO THE CURB.
- CONTINUE JOINTS THROUGH CURBS AND PAVEMENT UNDER PAVERS.
- CONTRACTOR SHALL SEAL ALL JOINTS IN ACCORDANCE WITH THE JOINT DETAILS ON SHEET POOL, THE MANUFACTURER'S RECOMMENDATIONS, AND THE SPECIFICATIONS.
- INSTALL 4" DIA. SCHEDULE 40 PVC SLEEVES WHERE REQUIRED BENEATH PAVING (18" - 30" DEEP) BETWEEN LANDSCAPE AREAS FOR THE INSTALLATION OF LANDSCAPE IRRIGATION. TURN UP ENDS 24" ABOVE GRADE AND MARK. (REFER TO LANDSCAPE ARCH. DRAWINGS FOR LOCATIONS.)
- ALL DIMENSIONS ARE TO BACK OF CURB, UNLESS NOTED OTHERWISE.
- ALL PAVEMENT MARKINGS SHALL BE FOUR (4) INCHES WIDE AND COLOR WHITE UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS. STRIPING SHALL CONSIST OF TWO (2) APPLICATIONS OF REFLECTIVE PAINT.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS INDICATED ON THE PLANS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON SITE. PAYMENT FOR THESE ITEMS SHALL BE INCIDENTAL TO CONSTRUCTION UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR SHALL SUBMIT A JOINTING PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
- ALL HANDICAP RAMPS SHALL BE A LAYDOWN CURB TYPE AS SPECIFIED IN THE CITY STANDARD CONSTRUCTION DETAILS. HANDICAP RAMPS SHALL HAVE CONTRASTING COLOR PER REQUIREMENTS OF ADA AND TAS.

SPECIAL NOTES:

- CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO INSTALL A JOINT LONGITUDINALLY WITHIN THE CENTERLINE OF A LOW POINT SWALE.

UTILITY NOTES

- ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES AND ARE APPROXIMATE.
- CONTRACTOR SHALL PROVIDE ALL THE MATERIALS AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE AND FITTINGS SHALL BE INSPECTED BY THE WATER DEPARTMENT INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING PRESSURE TESTING AND DISINFESTION OF MAINS AND HIS SIGNATURE OF APPROVAL IS REQUIRED.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY, AND BY THE CITY.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY AUTHORITY FOR CONNECTION TO THE EXISTING MAINS.
- ALL FIRE HYDRANTS ARE 6" DIAMETER WITH A 6" DIAMETER LINE AND A 6" DIAMETER SHUT OFF VALVE. FIRE HYDRANTS SHALL BE SET SUCH THAT NOZZLE CONNECTIONS FACE THE BUILDING, STREET, OR FIRE LANE. FIRE HYDRANTS SHALL BE SET 3' TO 5' BEHIND BACK OF CURB UNLESS OTHERWISE NOTED
- ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 42" MEASURED FROM TOP OF PIPE TO TOP OF FINISHED PAVEMENT UNLESS A GREATER DEPTH IS REQUIRED BY CITY STANDARDS.
- CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM SEWER OR OTHER
- THRUST BLOCKS SHALL BE PROVIDED AT ALL "TEES, ELBOWS, CAPS, PLUGS, FIRE HYDRANTS AND BENDS" OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. - 24 FOR
- ALL GATE VALVES TO BE PROVIDED WITH CAST IRON BOXES. SIZE OF GATE VALVE WHERE TAP IS MADE INTO EXISTING WATER LINE WILL BE DETERMINED BY THE WATER
- SHOULD LATENT SOIL CONDITIONS NECESSITATE, CONTRACTOR SHALL INSTALL SPECIAL SUPPORTS FOR PIPING AND/OR APPURTENANCES INCLUDING THE REMOVAL OF UNSUITABLE MATERIAL AND BACKFILLING WITH GRAVEL OR OTHER MATERIAL.
- THE SITE UTILITY CONTRACTOR SHALL COOPERATE AND WORK WITH OTHER CONTRACTORS ON THE SITE.
- ALL MANHOLES OVER FIVE (5) FEET IN DEPTH SHALL HAVE A STANDARD CONCENTRIC CONE.
- ALL MATERIALS SHALL BE U.L. LISTED AND FACTORY MUTUAL APPROVED UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGES BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- CONTRACTOR SHALL REFER TO SITE GEOTECHNICAL REPORT FOR DETAILS ON COMPACTING, BACKFILL, PROOFROLLING AND TESTING. IF NO COMPACTION DATA IS PROVIDED, TRENCHES BENEATH PAVEMENT SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY AND TRENCHES OUTSIDE OF PAVED AREAS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- COORDINATE WITH PUBLIC ELECTRIC UTILITY COMPANY TO STABILIZE EXISTING POWER POLES DURING TRENCH CONSTRUCTION.
- ALL TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL APPLICABLE STATE AND LOCAL REGULATIONS.
- ALL CONSTRUCTION SHALL COMPLY WITH THE CITY STANDARD CONSTRUCTION DETAILS AND/OR THE NCTCOG SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF ROCKWALL.
- CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED SURFACE UTILITIES TO MATCH FINISHED GRADES.
- ALL WATER MAINS SHALL BE C900 PVC, CLASS 200.
- CONCRETE ENCASEMENT SHALL BE INSTALLED WHERE SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER OR THE INSPECTOR. THIS WORK SHALL BE SUBSIDIARY TO THE COST OF THE UTILITY AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- BLUE EMS DISKS SHALL BE INSTALLED AT EVERY CHANGE IN DIRECTION, VALVE, SERVICE AND EVERY 250' OF STRAIGHT PIPE.
- GREEN EMS DISCS SHALL BE INSTALLED AT EVERY MANHOLE, CLEAN OUT, AND SERVICE.

GRADING & DRAINAGE NOTES

- EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGES BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. EXISTING TOPOGRAPHIC INFORMATION SHOWN IS BASED ON FIELD SURVEY PREPARED BY WIER & ASSOCIATES, ON DECEMBER, 2001. (EXCLUDES BELOW GRADE PUBLIC UTILITY LOCATIONS PROVIDED BY UTILITY COMPANY AS DESCRIBED ABOVE.)
- NEW FINISHED CONTOURS SHOWN ARE TOP OF PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDDED OR SODDED.
- PARKWAYS SHALL BE SODDED AND AREAS OUTSIDE OF PARKWAYS SHALL BE HYDROMULCHED. AREAS OUTSIDE OF THE PARKWAY PERIMETERS SHOWN TO BE SEEDDED SHALL RECEIVE 4" OF TOPSOIL. THIS TOPSOIL TO BE PLACED AND LEVELED BY THE GRADING CONTRACTOR.
- ROUGH GRADING ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND BASED ON THE FOLLOWING CRITERIA:
 - 4" BELOW FINISHED CONTOURS IN SEEDDED OR SODDED AREAS.
 - ROUGH GRADING UNDER ALL PAVEMENT SECTIONS SHALL BE BASED ON THE RECOMMENDATIONS BY THE GEOTECHNICAL INVESTIGATION REPORT.
- GRADING CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE PROJECT STREETS BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH THE ALTERATION OF OR RELOCATION OF THE FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES, GATE VALVE BOXES AND FIRE HYDRANTS AS REQUIRED TO MATCH FINISHED GRADES IN CONFORMANCE WITH CITY STANDARDS. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
- GRADING CONTRACTOR SHALL COOPERATE AND WORK WITH ALL OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER AND TIMELY COMPLETION OF THIS PROJECT.
- THE GRADING CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THIS CAN BE ACCOMPLISHED BY SMALL TEMPORARY SEDIMENT PONDS, SILT FENCES OF STEEL WIRE & BURLAP OR BARRIERS OF CEDAR TREES AND/OR BALES OF STRAW. CONTRACTOR SHALL COMPLY WITH ALL LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS SUFFICIENT TO PREVENT EROSION.
- FOR THE WORK ON THE STATE OR CITY RIGHT-OF-WAY, THE GRADING CONTRACTOR SHALL:
 - NOT STORE MATERIAL, EXCESS DIRT OR EQUIPMENT ON THE SHOULDERS OF PAVEMENT IN CASE OF MULTI-LANE HIGHWAYS, IN THE MEDIAN STRIPS. THE PAVEMENT SHALL BE KEPT FREE FROM ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT. ON COMPLETION OF THE WORK ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY.
 - PROVIDE ALL NECESSARY AND ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGS, LIGHTS, BARRICADES AND FLAGMEN AS REQUIRED BY THE LOCAL AUTHORITIES AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE GRADING CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HOLD HARMLESS THE TEXAS DEPARTMENT OF TRANSPORTATION, THE CITY, WIER & ASSOC. INC., AND THE OWNER FROM ANY CLAIMS FOR DAMAGE DONE TO EXISTING PRIVATE PROPERTY, PUBLIC UTILITIES, OR TO THE TRAVELING PUBLIC.
- COMPLETE THE WORK TO THE SATISFACTION OF THE CITY PUBLIC WORKS DEPARTMENTS AND OBTAIN A LETTER FROM THAT DEPARTMENT STATING THAT THE WORK UNDER PUBLIC JURISDICTION IS ACCEPTABLE.
- POST NECESSARY BONDS AS REQUIRED BY THE CITY AND/OR STATE.
- GRADING CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, BY APPLYING CALCIUM CHLORIDE, OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO OWNER.
- REFER TO PAVING DETAILS FOR TYPE OF PAVING AND BASE TO BE USED.
- GRADING CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING STRUCTURES, FENCES, DEBRIS, OR TREES REMAINING ON SITE. COORDINATE WITH GENERAL CONTRACTOR. FOR THIS PROJECT ALL FENCES WITHIN THE INTERIOR OF THE SITE SHALL BE REMOVED AND DISPOSED OF. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION.
- GRADING CONTRACTOR TO COMPLY WITH ALL STATE AND LOCAL SEDIMENT CONTROL AND AIR POLLUTION ORDINANCES OR RULES.
- A QUALIFIED SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF THE EXISTING SUBGRADE AND EXISTING ON-SITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATION.
- ALL AREAS NOT COVERED BY PAVING OR PLANNED LANDSCAPING SHALL BE PLANTED WITH GRASS WITHIN THE PROJECT LIMITS INCLUDING ADJACENT PARKWAYS, AND DISTURBED AREAS.
- UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY GRADING CONTRACTOR.
- ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
- BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE STREET PLANS. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION.
- TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING OF GRADING. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES AND SHALL REMOVE SILT FROM BERM DITCHES, SILT DAMS, AND SILT FENCES AS NEEDED.
- ALL 4:1 SLOPES AND STEEPER, IF ANY, SHALL BE HYDROMULCH SEEDDED UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PREVENT SOIL STABILIZATION TREATMENT FROM LEAVING THE SITE FROM STORM WATER RUNOFF AND DAMAGING DOWNSTREAM WATER COURSES, LAKES OR PONDS. ANY DAMAGE TO WILDLIFE OR FISH KILLS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
- MAINTAIN AS MUCH EXISTING VEGETATION AS POSSIBLE AS WELL AS RE-ESTABLISHING THE GROUND COVER AS EARLY AS POSSIBLE. GRASS BUFFER STRIPS SHALL BE LEFT AROUND THE PERIMETER TO AID IN FILTERING SEDIMENTATION. A DENSITY OF TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO PREVENT EROSION SHOULD BE ESTABLISHED ON ALL BERMS, SWALES, AND SLOPES.
- ALL SITE GRADING AND EARTHWORK CONSTRUCTION SHALL COMPLY WITH THE GEOTECHNICAL REPORT. ALL SOIL COMPACTION SHALL BE ACCOMPLISHED BY THE USE OF A SHEEP'S FOOT ROLLER.
- PREPARE AND PROOFROLL SUBGRADE AS PER GEOTECHNICAL REPORT RECOMMENDATION.
- ALL STORM DRAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD CONSTRUCTION DETAILS OF THE CITY OF ROCKWALL OR TXDOT, AS SPECIFIED.
- ALL FENCING THAT IS REMOVED AND NOT REPLACED SHALL BE SALVAGED AND STORED FOR REMOVAL AT A LATER DATE BY THE OWNER. COORDINATE WITH THE ENGINEER FOR PROPER STORAGE LOCATION.
- ALL COMPACTION SHALL BE ACCOMPLISHED BY THE USE OF A SHEEP'S FOOT ROLLER.
- THE PROJECT WILL NOT BE ACCEPTED BY THE CITY UNTIL A STAND OF GRASS COVERING 80% OF THE SEEDDED OR SODDED AREAS IS ESTABLISHED.

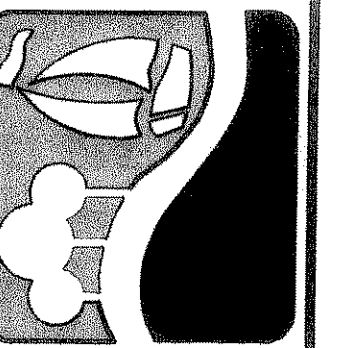
SPECIAL NOTES:

- ALL REFERENCES TO "THE CITY" SHALL REFER TO "THE CITY OF ROCKWALL"
- THE CITY OF ROCKWALL UTILIZES THE NCTCOG SPECIFICATIONS AND AMENDMENTS TO SAME. CONTRACTOR SHALL OBTAIN COPIES OF THE COUNCIL OF GOVERNMENT SPECIFICATIONS AND AMENDMENTS PRIOR TO BIDDING AND CONSTRUCTION.

* SEE SHEETS E101-E103 FOR EROSION CONTROL NOTES

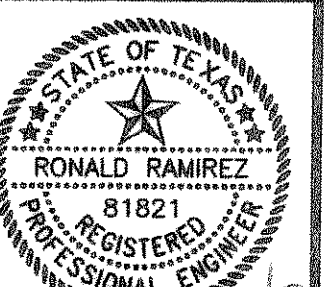
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**CITY OF
ROCKWALL
JUSTIN ROAD
EXTENSION**

GENERAL NOTES



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