GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE MOST CURRENT EDITION OF THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION, AND THE 3RD EDITION OF THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. IN THE EVENT THAT AN ITEM IS NOT COVERED IN THE CONSTRUCTION DOCUMENTS, THE CITY'S DECISION WILL APPLY.

2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, AND APPROVALS BEFORE CONSTRUCTION BEGINS.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF ROCKWALL – PUBLIC WORKS 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

4. THE TYPES AND INSTALLATION LOCATIONS OF TEMPORARY BARRICADES AND SIGNS DURING CONSTRUCTION SHALL CONFORM TO THE LATEST ISSUE OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

5. EXISTING ROADS AND STREETS SHALL BE KEPT OPEN TO TRAFFIC AT ALL TIMES. THE CONTRACTOR SHALL ARRANGE THE SETTING OF BARRICADES SO AS TO CLOSE ONLY ONE LANE OF A ROADWAY AT A TIME (FOR CONSTRUCTION OF TURN LANES). ALL CONSTRUCTION OPERATIONS SHALL BE CONDUCTED TO PROVIDE THE LEAST POSSIBLE INTERFERENCE TO TRAFFIC AS PROVIDED IN THE SPECIFICATIONS AND/OR AS DIRECTED BY THE CITY. CONTRACTOR SHALL USE BARRICADES AND OTHER WARNING DEVICES TO ADEQUATELY AND PROPERLY MARK AND PROTECT ALL AREAS UNDER CONSTRUCTION. CONTRACTOR SHALL NOT CLOSE ANY PUBLIC STREET OR RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM THE CITY OF ROCKWALL.

6. CONTRACTOR SHALL EXERCISE CAUTION AND MAINTAIN A CLEAR ZONE BETWEEN THE CONTRACTORS EQUIPMENT AND ANY FRANCHISE UTILITY LINES. THIS CLEAR ZONE SHALL BE AS RECOMMENDED BY THE APPLICABLE FRANCHISE UTILITY COMPANY.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE CITY'S RECORDS. THE CONTRACTOR SHALL PROVIDE THE CITY "AS-BUILT" MARK-UPS THAT RECORD ALL CONSTRUCTION DEVIATING FROM THE PLANS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A TRENCH SAFETY PLAN TO THE CITY OF ROCKWALL ENGINEERING DEPARTMENT AT THE TIME OF THE PRECONSTRUCTION MEETING, OR PRIOR TO BEGINNING CONSTRUCTION OF THESE IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT WITHOUT THE PRIOR SPECIFIC WRITTEN APPROVAL OF THE CITY OF ROCKWALL PUBLIC WORKS DEPARTMENT. ON-SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

9. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHTS-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND THE CITY OF ROCKWALL. ALL CONSTRUCTION MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AT A LOCATION OFF-SITE, UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE PROPERTY OWNER AND THE CITY OF ROCKWALL. CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC ACCESS TO ALL ABUTTING PROPERTY.

10. DURING CONSTRUCTION, ALL MATERIAL TESTING SHALL BE COORDINATED WITH THE CITY OF ROCKWALL'S CONSTRUCTION INSPECTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATION FOR COMPACTION REQUIREMENTS. INITIAL TESTING WILL BE SCHEDULED, AND PAID FOR, BY THE OWNER, AND ANY REQUIRED RETESTING WILL BE SCHEDULED AND PAID FOR BY THE CONTRACTOR.

11. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY, AS REQUIRED, TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT AND CONSTRUCTION SITE NOTICE TO THE TCEQ. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS MEASURING 1" IN HEIGHT AND COVERING 75% OF ALL DISTURBED AREA.

12. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR AT HIS EXPENSE, UNLESS OTHERWISE SPECIFIED OR AGREED TO BY OWNER. NO FILL SHALL BE PLACED IN CITY LIMITS WITHOUT A FILL PERMIT FROM THE CITY OF ROCKWALL.

13. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS, APPROVED BY THE CITY AND ENGINEER.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING.

15. UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM FIELD SURVEYS AND INFORMATION PROVIDED BY THE UTILITY COMPANIES. THE COMPLETENESS AND ACCURACY OF THIS DATA IS NOT GUARANTEED.

16. WORK MAY NOT BE BACKFILLED OR COVERED UNTIL IT HAS BEEN INSPECTED BY THE CITY.

17. FINISHED SLOPES ON PUBLIC RIGHT-OF-WAY AND EASEMENTS SHALL NOT BE STEEPER THAN 3:1. ALL SLOPES STEEPER THAN 6:1 SHALL BE HYDROMULCHED AND MAINTAINED BY THE CONTRACTOR UNTIL GRASS COVERS ALL PARTS OF THE SLOPE. GRASS MUST BE LUSH, GREEN, VIGOROUS AND GROWING. NO BARE SPOTS OVER ONE SQUARE FOOT WILL BE ALLOWED. ALL RUTS FROM "WASHING" MUST BE FILLED AND GRASSED.

18. ALL CONSTRUCTION, TESTING AND MATERIALS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE CITY OF ROCKWALL.

GENERAL NOTES (CONT'D.)

19. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITIES AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. HE SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.

21. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

22. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND CITY INSPECTOR. THE PROJECT GEOTECHNICAL ENGINEER WILL REVIEW TEST RESULTS AND COMPARE SAID RESULTS TO THE PROJECT SPECIFICATIONS TO ENSURE COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING TO ENSURE HIS KNOWLEDGE OF THE PROJECT TESTING REQUIREMENTS.

23. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING IMPROVEMENTS.

24. ALL EARTHWORK, UTILITY, AND PAVING OPERATIONS SHALL BE PER THE GEOTECHNICAL EVALUATION BY PSI, PROJECT NO. 888-75064, DATED SEPTEMBER 26, 2007.

25. ALL STD. 3RD EDITION NCTCOG DETAILS SHOWN IN THESE PLANS ARE UNMODIFIED. ALL STD. NCTCOG DETAILS SHALL BE MODIFIED AS NECESSARY AND AS APPLICABLE TO CONFORM TO CITY OF ROCKWALL SPECIFICATIONS AND STANDARDS.

26. ALL FILL TO BE COMPACTED WITH A SHEEP'S FOOT ROLLER AND TO A MIN. 95% STANDARD DENSITY.

PAVING NOTES

1. REINFORCED CONCRETE PAVEMENT:

   A. ALL CURBS SHALL BE PLACED INTEGRAL WITH THE PAVEMENT.

   B. CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS THE PAVEMENT.

   C. BAR LAPS SHALL BE 30 DIAMETERS.

2. EXACT LOCATION OF STREET LIGHT CONDUIT TO BE DEFINED BY THE CITY AND ONCOR PRIOR TO CONSTRUCTION. STREET LIGHT CONDUIT (2" PVC SCHEDULE 40 ELECT. CONDUIT) TO BE INSTALLED WITH A 3' BURIED DEPTH.

3. THE PAVING CONTRACTOR SHALL NOT PLACE PERMANENT PAVEMENT UNTIL ALL SLEEVING FOR IRRIGATION, ELECTRIC, GAS, TELEPHONE, CABLE TV, SITE LIGHTING, ETC. HAS BEEN INSTALLED. IT SHALL BE THE PAVING CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL SLEEVING IS IN PLACE PRIOR TO PLACING PERMANENT PAVEMENT.

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE CITY ENGINEER WITH A CONCRETE MIX DESIGN AT THE PRE-CONSTRUCTION MEETING. THE COST OF THIS DESIGN SHALL BE INCLUDED IN THE UNIT PRICE OF PAVEMENT MATERIAL OR AT LEAST 10 DAYS PRIOR TO POUR.

5. ALL DISTURBED AREAS, INCLUDING MEDIANS, SHALL BE HYDROMULCH SEEDED IMMEDIATELY FOLLOWING FINISHED GRADING EXCEPT ALL DISTURBED PUBLIC ROW AREAS SHALL BE SODDED.

6. EXPANSION AND CONTRACTION JOINTS SHALL BE LOCATED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

7. MANHOLES AND VALVE BOXES WILL NOT BE BLOCKED OUT. PAVEMENT CONSTRUCTION TO RUN CONTINUOUS.

8. SUBGRADE UNDER ALL PAVEMENT SHALL BE PER THE GEOTECHNICAL EVALUATION BY PSI, PROJECT NO. 888-75064, DATED SEPTEMBER 26, 2007. LABORATORY TESTS MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL TO DETERMINE FINAL AMOUNT OF LIME REQUIRED. NO SAND UNDER PAVING.

9. PAVEMENT SIGNING AND MARKING (BOTH TEMPORARY AND PERMANENT) SHALL BE INSTALLED ON ALL NEW PAVEMENT PER THE PLANS, SPECIFICATIONS, AND CITY OF ROCKWALL STANDARDS.

10. UNLESS OTHERWISE NOTED, ALL CURB DIMENSIONS ARE TO BACK OF CURB.

11. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN TXDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION).

12. ALL UNPAVED AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REGRADED AND LANDSCAPED.

13. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS, UNLESS NOTED OTHERWISE.

14. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL FULL DEPTH SAW CUT THE EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED AND INSTALLED WITH A LONGITUDINAL BUTT JOINT.

15. THE CONTRACTOR SHALL INSTALL VALLEY GUTTERS AND WARP CURB RETURN PAVEMENT AS NECESSARY TO ENSURE POSITIVE DRAINAGE PER THE DRAINAGE AREA MAP.

UTILITY NOTES

1. THE CONTRACTOR SHALL CONTACT ALL NECESSARY PUBLIC AGENCIES AND UTILITY COMPANIES AND FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING ANY CONSTRUCTION WITHIN THE PROJECT LIMITS. AN INFORMAL LIST OF UTILITY COMPANIES FOLLOWS:

   CITY OF ROCKWALL (972) 771-7730 ATMOS ENERGY (972) 485-6277

   ONCOR ELECTRIC (972) 569-6310 S.W. BELL (903) 457-2212

   CHARTER COMMUNICATIONS (817) 298-3655

   IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL RELEVANT UTILITY COMPANIES REGARDLESS OF THEIR POSSIBLE EXCLUSION FROM THIS LIST.

   THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM RECORDS WHICH MAY NOT HAVE BEEN COMPLETELY ACCURATE. THEREFORE, THE PRESENCE, LOCATION, AND ELEVATION OF EXISTING UTILITIES IN THE FIELD SHALL BE VERIFIED BY THE CONTRACTOR BEFORE COMMENCING WORK. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. FAILURE OF ANY EXISTING UTILITY TO APPEAR ON THE PLANS OR RECORD SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROTECT AND REPAIR, IF DAMAGED, SUCH UTILITIES. ANY REPAIR TO LINES DAMAGED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.

   THE CONTRACTOR SHALL PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, WATER VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES MUST BE ADJUSTED TO PROPER LINE AND GRADE BEFORE FINAL ACCEPTANCE BY THE CITY OF ROCKWALL.

   THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWO (2) FOOT VERTICAL CLEARANCE BETWEEN ALL UNDERGROUND UTILITIES, UNLESS NOTED OTHERWISE ON PLANS.

2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY THE CITY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING TESTING OF ALL MAINS, AND APPURTENANCES.

3. THE PROPOSED WATER MAINS SHALL HAVE A MINIMUM COVER OF FOUR (4') FEET MEASURED FROM THE TOP OF THE PROPOSED GRADE TO THE TOP OF PROPOSED PIPE.

4. ALL CAST IRON FITTINGS SHALL BE POLYWRAPPED.

5. ARRANGEMENTS FOR CONSTRUCTION WATER TO BE THROUGH CITY OF ROCKWALL SERVICE CENTER DEPARTMENT (972-771-7730).

6. NO EXISTING VALVE OR HYDRANT SHALL BE OPERATED, OR ANY EXISTING MAIN TAPPED, WITHOUT PRIOR AUTHORIZATION FROM CITY OF ROCKWALL DEPARTMENT OF PUBLIC WORKS.

7. BACKFILL SHALL CONFORM TO THE CONTRACT SPECIFICATIONS AND TO ANY APPLICABLE CITY STANDARDS. NO JETTING SHALL BE ALLOWED. BACKFILL SHALL BE FREE FLOWING, FREE OF ROCKS AND LARGE CLODS. BACKFILL SHALL BE PLACED IN 6- TO 9-INCH LIFTS AT OR ABOVE OPTIMUM MOISTURE AND MECHANICALLY COMPACTED TO 95 PERCENT STANDARD PROCTOR UNDER PAVED AREAS (EXISTING, PROPOSED, AND PUBLIC ROW AREAS), AND MIN. 95 PERCENT STANDARD PROCTOR UNDER ALL OTHER AREAS.

8. A BLUE STIMSONITE, FIRE-LITE REFLECTOR (OR APPROVED EQUAL) SHALL BE PLACED IN THE CENTER OF THE STREET OPPOSITE FIRE HYDRANTS.

9. THE BODY OF ALL FIRE HYDRANTS SHALL BE PAINTED WITH AN APPROVED ALUMINUM PAINT; BONNETS SHALL BE PAINTED ACCORDING TO CITY OF ROCKWALL STANDARDS.

10. FIRE HYDRANT OUTLET NOZZLES TO BE NOT LESS THAN 19" NOR MORE THAN 21" ABOVE FINAL GRADE.

11. ALL EMBEDMENT TO CONFORM TO CITY OF ROCKWALL STANDARD SPECIFICATIONS.

12. VALVES TO BE PROVIDED WITH AN APPROVED VALVE BOX. VALVES GREATER THAN 4 FEET DEEP SHALL BE PROVIDED WITH VALVE STEM EXTENSIONS. CONCRETE PADS WILL BE REQUIRED AT EACH VALVE BOX PER CITY OF ROCKWALL REQUIREMENTS.

13. UPON RECEIPT OF ACCEPTABLE BACTERIOLOGICAL REPORT, CONTRACTOR TO REMOVE COPPER BLEEDER LINES FROM MAIN.

14. NO STREET CUTS WILL BE ALLOWED FOR TAPPING EXISTING UTILITIES, EXCEPT WHERE SHOWN IN THE PLANS.

15. ALL 12" AND SMALLER WATER PIPE TO BE PVC DR-18, C-900, CLASS 200.

16. ALL SANITARY SEWER PIPE LESS THAN TEN (10) FEET DEEP SHALL BE PVC SDR 35 CONFORMING TO THE REQUIREMENTS OF ASTM-D3034. ALL SANITARY SEWER PIPE TEN (10) FEET OR DEEPER SHALL BE PVC SDR 26 CONFORMING TO THE REQUIREMENTS OF ASTM-D3034.

17. SANITARY SEWER MAINS CROSSING WATER MAINS SHALL MEET ALL CURRENT APPLICABLE TCEQ STANDARDS. THIS SHALL NOT BE A SEPARATE PAY ITEM.

18. CONTRACTOR MAY USE STANDARD PRE-CAST CONCRETE MANHOLES OR CAST-IN-PLACE MANHOLES.

19. ALL WATER AND SANITARY SEWER CONSTRUCTION NOT SPECIFICALLY REFERENCED IN THESE NOTES OR THE CONTRACT SPECIFICATIONS SHALL BE BY CITY OF ROCKWALL STANDARDS, WHICH ARE HEREBY MADE A PART OF THESE PLANS.

UTILITY NOTES (CONT'D.)

20. THE CONTRACTOR SHALL INSTALL AND MAINTAIN WATER TIGHT PLUGS IN ALL CONNECTIONS TO THE CITY'S SANITARY SEWER SYSTEM UNTIL THE PROJECT IS ACCEPTED BY THE CITY.

21. ALL SANITARY SEWER LINES AND MANHOLES SHALL BE LEAK TESTED BEFORE THE PROJECT IS ACCEPTED. TV INSPECTION AND MANDREL DEFLECTION TESTING OF PVC SEWER LINES IS REQUIRED.

22. UNLESS OTHERWISE NOTED, ALL PIPE DIMENSIONS ARE TO PIPE CENTERLINE.

23. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.

24. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACKFILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER, OR OWNER RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

25. ALL PRIVATE UTILITY PVC SLEEVES TO BE SCH. 40. ALL SLEEVES SHALL HAVE SELECT MATERIAL BEDDING AND BACKFILL A MINIMUM OF 4 INCHES ABOVE TOP OF SLEEVE. MINIMUM COVER BELOW PAVEMENT SUBGRADE TO TOP OF SLEEVE SHALL BE:

    GAS – 2 FEET
    SIGNALIZATION – 3 FEET
    ALL OTHER PRIVATE UTILITIES – 2 FEET

    MULTIPLE RUNS OF SLEEVES SHALL BE INSTALLED WITH A SPACER AT 5-FOOT CENTERS.

RECORD DRAWING
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.

26. STORM SEWER PIPE SHALL BE REINFORCED CONCRETE, CLASS III UNLESS OTHERWISE NOTED. STORM SEWER RADIUS PIPE SHALL BE TYPE B-2 TONGUE AND GROOVE RADIUS PIPE PER ASTM C-76.

27. ALL FIRELANE CONCRETE SHALL BE CLASS "C" (3600 PSI COMPRESSIVE STRENGTH AT 28 DAYS), AIR ENTRAINED (MIN. 6-1/2 SACK CONCRETE HAND POUR, 6 SACK MACHINE FINISH). ALL CONCRETE FOR DRAINAGE STRUCTURES TO BE MIN. 4200 PSI.

28. THE CONTRACTOR SHALL INSTALL PLUGS IN STORM SEWER LINES OR OTHERWISE PREVENT MUD FROM ENTERING THE STORM SEWER SYSTEM DURING CONSTRUCTION.

29. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE DESILTED AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE UNOBSTRUCTED POSITIVE DRAINAGE FLOWS.

30. CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE IS ALLOWED, WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PAVING IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED.

31. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES LOCAL, STATE, OR FEDERAL WATER QUALITY STANDARDS.

32. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER DISCHARGE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY AUTHORIZED AUTHORITIES.

33. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.

34. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE T.C.E.Q. GENERAL PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

35. A BLUE EMS PAD SHALL BE PLACED AT EVERY WATER LINE CHANGE IN DIRECTION, VALVE, FIRE HYDRANT, AND SERVICE.

36. A GREEN EMS PAD SHALL BE PLACED AT EVERY SANITARY SEWER MANHOLE, CLEANOUT, AND SERVICE.

37. ALL STORM SEWER PIPE JOINTS SHALL BE SEALED PER NTCOG AND CITY OF ROCKWALL CONSTRUCTION SPECIFICATIONS.

38. ALL FIRE HYDRANTS SHALL HAVE 5' CLEARANCE AROUND.

39. ALL FITTINGS SHALL BE MEGALUG.

No.	Date	Revisions	App.

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STATE OF TEXAS
PIETER D. KESSELS
87775
LICENSED
PROFESSIONAL ENGINEER
02-27-2008

Pecan Valley Drive and Quail Run Road
City of Rockwall, Texas

GENERAL NOTES

Scale:	N/A
Designed by:	T.B.B.
Drawn by:	J.J.D./B.B.P.
Checked by:	P.D.K.
Date:	Feb. 27, 2008
Project No.	068237002

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