

GENERAL AND EROSION CONTROL NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG TESS" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
2. PROPERTY LINE, EXISTING UTILITY INFORMATION AND TOPOGRAPHY TAKEN FROM RECORD INFORMATION AND SURVEY CONDUCTED BY RHODES SURVEYING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.
4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL MUNICIPAL REGULATIONS.
5. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
6. STOCKPILES, IF ANY, SHALL BE SURROUNDED ON THEIR PERIMETERS WITH CONTROL SILTATION FENCES TO PREVENT AND CONTROL SILTATION AND EROSION REQUIRES A SEPERATE PERMIT.
7. TOPS OF STOCKPILES, IF ANY, SHALL BE COVERED IN SUCH A MANNER THAT STORM WATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.
8. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER. NO AREA, SUBJECT TO EROSION SHALL BE LEFT DISTURBED AND UNSUITABLE FOR PERIODS LONGER THAN IS ABSOLUTELY NECESSARY TO CARRY OUT THAT PORTION OF THE CONSTRUCTION WORK, OR 1 WEEK AFTER SOIL HAS BEEN DISTURBED, WHICHEVER IS LESS.
9. EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO TEMPORARY DRAINAGE SWALES AND SEDIMENTATION BASINS.
10. THE LOCATION OF TEMPORARY DRAINAGE SWALES AND SEDIMENTATION TRAPS ARE APPROXIMATE ONLY AND SHALL BE RELOCATED AS REQUIRED AS CONSTRUCTION PROGRESSES.
11. INLET PROTECTION SHALL BE PLACED AROUND ALL CATCH BASINS AND CURB INLETS AS REQUIRED DURING CONSTRUCTION.
12. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION SHALL TAKE PLACE AFTER EACH RAINFALL EVENT.
13. THE LOCATION OF SILT FENCE FOR EROSION CONTROL PURPOSES SHALL BE INSTALLED IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN. SILT FENCE SHALL BE PERIODICALLY INSPECTED AND REPLACED AS REQUIRED.
14. NO PROPOSED SLOPES SHALL BE STEEPER THAN 3H:1V.
15. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES EXTRA SILTATION FENCING FOR INSTALLATION TO MITIGATE ANY EMERGENCY CONDITION.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
17. THE LIMIT OF WORK LINE FOR THE AREA TO BE CLEARED AND GRUBBED SHALL BE THE SAME AS THE LIMIT OF WORK LINE NECESSARY FOR GRADING PURPOSES (I.E., THE GRADING LIMITS AROUND THE PERIMETER OF THE PROJECT AREA).
18. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC RIGHT-OF-WAY. THIS MAY INCLUDE A GRAVEL CONSTRUCTION ENTRANCE OR OTHER EROSION CONTROL MEASURES AS DICTATED ON THE EROSION AND SEDIMENTATION CONTROL PLAN. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
19. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAPS THE SUBJECT PROPERTY LIES ENTIRELY OUTSIDE THE 100-YEAR FLOODPLAIN.
20. UPON COMPLETION OF ALL SITE WORK, CONSTRUCTION SITE CONTRACTOR SHALL INSPECT ALL CATCH BASINS AND CURB INLETS ON-SITE AND REMOVE ALL SEDIMENT AND TRASH DEBRIS THAT HAS ACCUMULATED WITHIN EACH INLET SUMP.
21. ALL CONSTRUCTION SHALL MEET OR EXCEED THE STATE AND LOCAL MUNICIPAL REQUIREMENTS AND SPECIFICATIONS.
22. WHERE A STATE OR LOCAL MUNICIPAL STANDARD DETAIL DUPLICATES A DETAIL SHOWN IN THE PLANS, THE MORE STRINGENT DETAIL, AS DETERMINED BY THE REVIEWING AGENCY, SHALL APPLY.
23. ALL EROSION CONTROL DETAILS ARE REFERENCED FROM NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STORM WATER QUALITY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES MANUAL. THE CONTRACTOR SHALL BE REQUIRED TO KEEP A CURRENT EDITION AVAILABLE ON SITE AT ALL TIMES. ALL REFERENCES ARE TO THE NCTCOG DRAWING NUMBER.

SEWER

1. ALL SANITARY SEWER PIPE SHALL BE SDR-35 PVC (ASTM D-3034) OR (ASTM F 789) WITH PIPE STIFFNESS OF 46.
2. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST TWO FEET (2') BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH CONCRETE ENCASUREMENT FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SANITARY SEWER SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE. SEE CITY OF ROCKWALL STANDARD SPECS. FOR SPECIFIC DETAILS THAT APPLY.
3. ALL SEWER MAIN APPURTENANCES, MATERIALS, METHODS OF INSTALLATION AND TESTING REQUIREMENTS, SHALL MEET OR EXCEED CITY OF ROCKWALL STANDARD SPECS.
4. WHERE A CITY OF ROCKWALL STANDARD SPECS. DETAIL DUPLICATES A DETAIL SHOWN IN THE PLANS, THE MORE STRINGENT DETAIL, AS DETERMINED BY THE REVIEWING AGENCY, SHALL APPLY.
5. GREEN EMS DISK SHALL BE INSTALLED AT EVERY SERVICE, MANHOLE & CLEANOUT.

UTILITY NOTES, GENERAL

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG TESS" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN PER THE APPROPRIATE REMEDIAL ACTION AGREED UPON BY THE ENGINEER.
2. DUE TO THE SMALL SCALE OF THE SITE WORK DRAWINGS, EXACT LOCATION OF UTILITY STUBS FOR BUILDING SHALL BE INSTALLED TO A POINT 5 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED.
3. WHERE A STATE OR LOCAL MUNICIPAL STANDARD DETAIL DUPLICATES A DETAIL SHOWN IN THE PLANS, THE MORE STRINGENT DETAIL, AS DETERMINED BY THE REVIEWING AGENCY, SHALL APPLY.
4. A 10' MINIMUM CLEARANCE (VERTICAL AND HORIZONTAL) SHALL BE KEPT BETWEEN ALL UTILITIES UNLESS OTHERWISE NOTED OR EXCEPTED.
5. GREEN EMS DISKS SHALL BE INSTALLED ON THE SEWER LINE AT EVERY SERVICE, MANHOLE AND CLEANOUT.

WATER NOTES

1. ALL DOMESTIC WATER MAINS SHALL BE PVC CLASS 200 AWWA-C900 OR AWWA C905.
2. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 42 INCH AND MAXIMUM 60 INCH OF COVER. GREATER DEPTHS ARE PERMITTED WHERE REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES.
3. GENERALLY, WATER MAIN FITTINGS IDENTIFIED ON THIS DRAWING ARE SHOWN FOR INSTALLATION LOCATION PURPOSES. THE CONTRACTOR SHALL NOTE THAT NOT ALL FITTINGS ARE NOTED, SHOWN, OR INDICATED.
4. A MINIMUM OF 10 FEET CLEAR HORIZONTALLY SHALL BE MAINTAINED BETWEEN SANITARY SEWER MAINS AND WATER MAINS. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER MAIN, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH AND THE ELEVATION OF THE CROWN OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN.
5. DOMESTIC WATER SERVICE SHALL BE DR-9 POLY AND SHALL BE INSTALLED PER CITY OF ROCKWALL STANDARD SPECS.
6. DOMESTIC WATER SERVICE SHALL BE INSTALLED WITH APPROPRIATELY SIZED GATE, BOX AND TEE FITTINGS PER CITY OF ROCKWALL STANDARD SPECS.
7. ALL WATER MAIN APPURTENANCES, MATERIALS, METHODS OF INSTALLATION AND TESTING REQUIREMENTS SHALL MEET OR EXCEED STATE AND LOCAL MUNICIPAL WATER AND SEWER DEPARTMENT STANDARDS.
8. PRESSURE AND LEAKAGE TEST, DISINFECTION AND FLUSHING SHALL BE IN ACCORDANCE WITH PER CITY OF ROCKWALL STANDARD SPECS. AND REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS IN CONNECTION WITH UTILITY TESTS, FLUSHING AND INSPECTIONS AS REQUIRED BY CITY OF ROCKWALL STANDARDS.
9. WHERE A STATE OR CITY OF ROCKWALL STANDARD SPECS. GENERAL DEVELOPMENT ORDINANCE, DUPLICATES A DETAIL SHOWN IN THE PLANS, THE MORE STRINGENT DETAIL, AS DETERMINED BY THE REVIEWING AGENCY, SHALL APPLY.
10. ALL FIRE HYDRANTS SHALL HAVE A 5' CLEARANCE AROUND THEM INCLUDING PARKED VEHICLES.
11. BLUE EMS DISKS SHALL BE INSTALLED ON THE WATER LINE AT EVERY SERVICE, CHANGE IN DIRECTION AND VALVE.

GRADING & DRAINAGE NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG TESS" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN PER THE APPROPRIATE REMEDIAL ACTION AGREED UPON BY THE ENGINEER.
2. ALL STORM DRAINAGE PIPES SHALL BE ASTM C-76, CLASS III REINFORCED CONCRETE, UNLESS NOTED OTHERWISE.
3. ALL SERVICE CONNECTIONS (I.E., ROOF AND CANOPY DRAINS) SHALL BE INSTALLED TO A POINT 5 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL FIELD DENSITY TESTS ON LIME STABILIZED SUBGRADE EQUAL TO THE RATIO OF 1 PER 100 LINEAR FEET OF STREET IN ADDITION TO ALL FAILING DENSITY TESTS.
5. ALL FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D-698). ALL FILL SHALL BE COMPACTED USING SHEEP'S FOOT ROLLER.
6. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PROVISIONS OUTLINED IN THE SPECIFICATIONS PREPARED BY SOILS ENGINEER, HOWEVER, ANY CITY OF ROCKWALL STANDARD AND/OR SPECIFICATION SHALL SUPERSEDE THE ABOVE.
7. COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN ABOUT EIGHT INCHES THICK LOOSE LIFTS AND COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. PARTICLE SIZES USED IN FILL SHALL BE LESS THAN SIX (6) INCHES DIAMETER.
8. GRADING CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OFF-SITE OF ALL EXCAVATED AND CLEARED MATERIAL WHICH SOILS LAB DECLARES UNSUITABLE FOR USE ON-SITE.
9. CONTRACTOR TO SLOPE THE ADJACENT GROUND AWAY FROM BUILDING PAD TO ACHIEVE POSITIVE SURFACE DRAINAGE.
10. INITIAL SITE GRADING SHALL BE COMPLETED TO A TOLERANCE OF PLUS OR MINUS ONE TENTH OF ONE FOOT IN STREET AND PLUS OR MINUS THREE TENTH OF ONE FOOT FOR BUILDING PADS. FINAL BUILDING PAD GRADING, TO BE DONE UPON COMPLETION OF PAVING AND UTILITY FACILITIES, SHALL BE PROVIDED TO A TOLERANCE OF PLUS OR MINUS TWO TENTH OF ONE FOOT AT ALL FOUR CORNERS AND CENTER OF THE PAD, IN ALL SWALES, AND LOT CORNERS.
11. CONTRACTOR SHALL REPLACE ANY EROSION CONTROL MATERIALS AT THE END OF EACH WORK DAY OF SAID MATERIALS WERE REMOVED DURING THE DAY FOR EASE OF CONSTRUCTION OR ACCESS.
12. IF ROCK IS ENCOUNTERED IN THE STREET SUBGRADE, THE ROCK SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES, REMOVED FROM THE STREET, AND NON-ROCK MATERIAL SHALL BE REPLACED FOR THE STREET SUBGRADE. ROCK IN STREET PARKWAYS SHALL BE REMOVED AND REPLACED WITH SIX INCHES OF TOP SOIL. THIS SHALL BE ACCOMPLISHED BY THE EXCAVATION CONTRACTOR, SUBSIDIARY TO THIS CONTRACT.

RECORD DRAWINGS

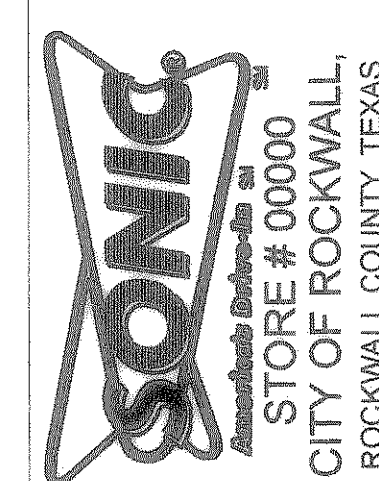
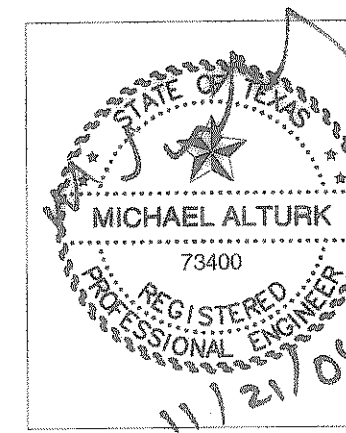
THE DRAWINGS CONTAINED IN THIS SET ARE "RECORD DRAWINGS". THE INFORMATION SHOWN ON THESE SHEETS, WHERE IT DIFFERS FROM THE PERMITTED SET, IS TAKEN FROM FIELD OBSERVATIONS AND NOTES PROVIDED BY THE GENERAL CONTRACTOR, NOT FROM SURVEYED DATA OR FROM FIELD OBSERVATIONS BY MA ENGINEERING & CONSTRUCTION EMPLOYEES.

ALL DETAILS AND CONSTRUCTION STANDARDS ARE TO BE CITY OF ROCKWALL'S AND 3RD EDITION OF NCTCOG

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

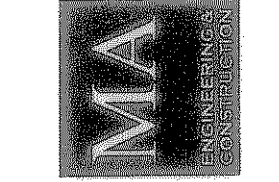
CONTRACTOR SHALL CONTACT DIG-TESS AT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY

NO.	DESCRIPTION	DATE	SCALE
1	ISSUED TO THE CITY OF REVIEW	3-11-08	
2	ISSUED TO THE CITY OF REVIEW	6-13-08	
3	ISSUED TO THE CITY OF REVIEW	6-19-08	
4	ISSUED TO THE CITY OF REVIEW	6-25-08	
5	ISSUED FOR CONSTRUCTION	7-9-08	
	RECORD SET	11-21-08	



GENERAL NOTES

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SHEET
C-2.0