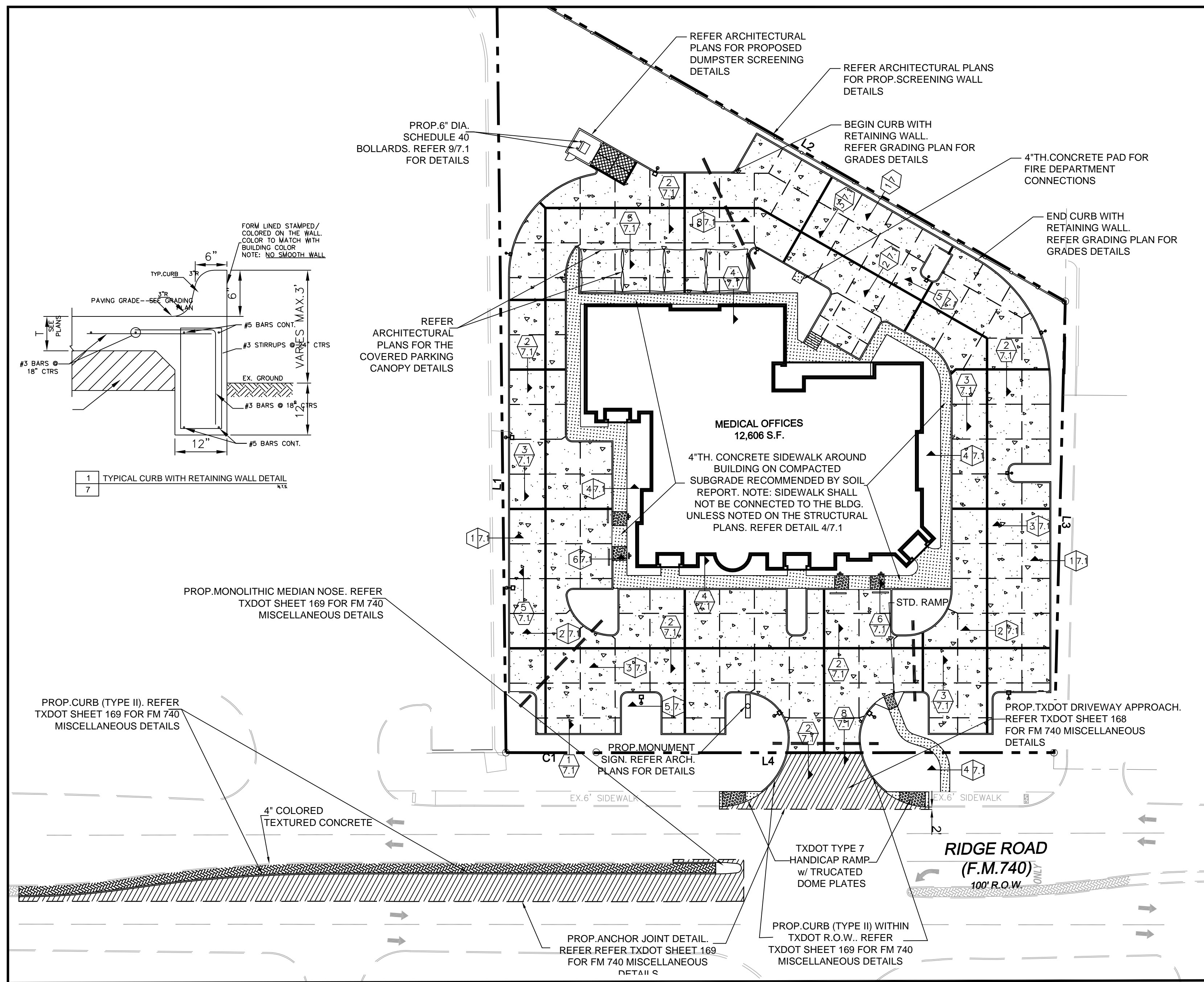
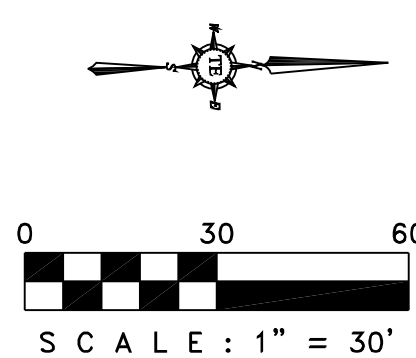


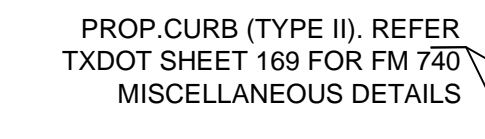
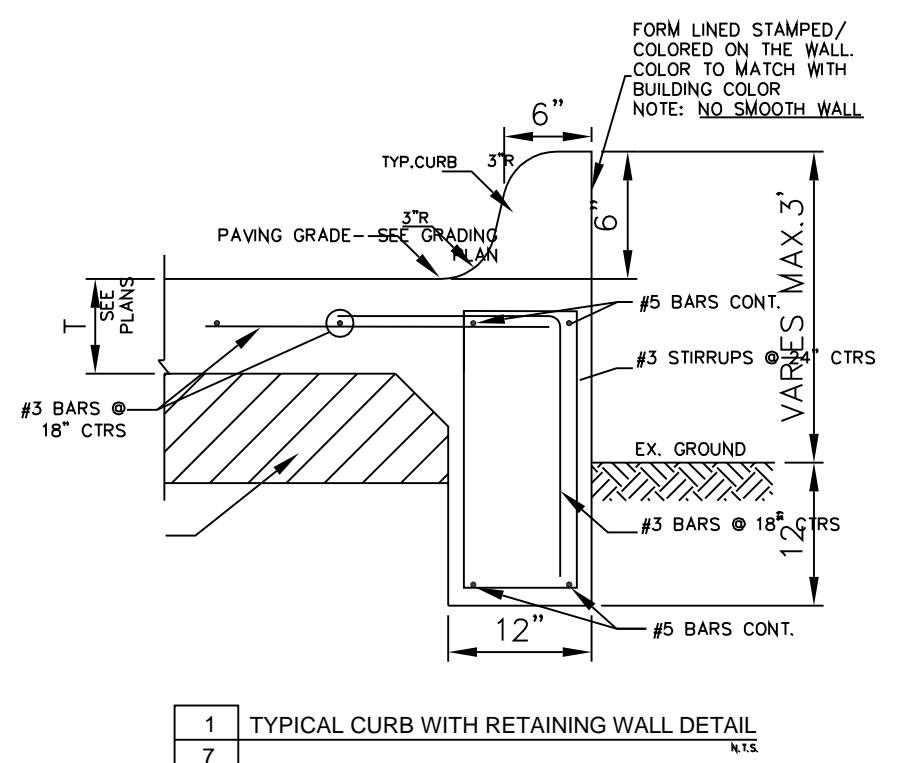
MEDICAL OFFICES DEVELOPMENT

1.46 ACRES PORTION OF
LOT 2, BLOCK "A" ROCKWALL ASSISTED LIVING ADDITION
CITY OF ROCKWALL, ROCKWALL COUNTY, TX



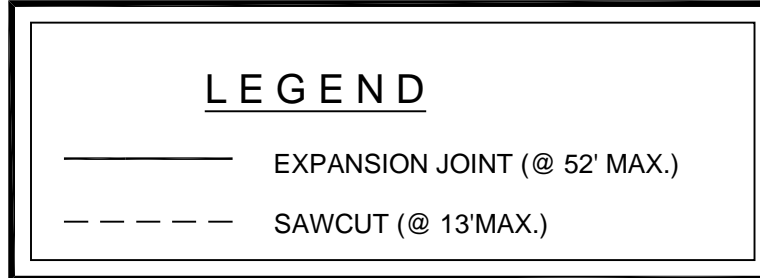
GENERAL NOTES - PAVING IMPROVEMENTS

- ALL VEGETATION AND TOPSOIL CONTAINING ORGANIC MATERIAL SHOULD BE CLEARED AND GRUBBED AT THE BEGINNING OF EARTHWORK CONSTRUCTION.
- CLAYS AND SANDY CLAYS THAT WILL UNDERLINE FILL SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES AND RECOMPACTED TO A MINIMUM OF 95 PERCENT AND A MAXIMUM OF 98 PERCENT OF THE MAXIMUM DENSITY, AS DETERMINED BY ASTM D 698. "STANDARD PROCTOR". THE MOISTURE CONTENT SHOULD RANGE FROM OPTIMUM TO +4 PERCENTAGE POINTS ABOVE OPTIMUM. CLAYEY SANDS SHOULD BE RECOMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT BETWEEN -2 AND +3 PERCENTAGE POINTS OF OPTIMUM. SANDS SHOULD BE RECOMPACTED TO AT LEAST 65 PERCENT OF THE RELATIVE DENSITY AS DETERMINED BY ASTM D 4254.
- SITE EXCAVATED SOILS SHOULD BE PLACED IN MAXIMUM EIGHT INCH LOOSE LIFTS AND COMPACTED TO THE MOISTURE AND DENSITY REQUIREMENTS OUTLINED ABOVE. THE SOIL SHOULD BE UNIFORMLY BLENDED WITH WATER TO ACHIEVE THE REQUIRED MOISTURE CONTENT.
- THE FINAL 6 INCHES OF SUBGRADE BELOW PAVEMENT SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR, AT OR ABOVE OPTIMUM MOISTURE.
- AREAS WHERE COMPACTION UTILIZING HAND-HELD EQUIPMENT WILL BE REQUIRED, SUCH AS FOR SITE UTILITIES AND PERIMETER "LEAVE OUT STRIPES" (TILT-WALL CONSTRUCTION), SHOULD BE COMPACTED TO A DENSITY OF BETWEEN 95 AND 98 PERCENT OF STANDARD PROCTOR, AT A MOISTURE CONTENT OF BETWEEN OPTIMUM TO +4 PERCENTAGE POINTS ABOVE OPTIMUM.
- "SELECT" FILL IS DEFINED AS UNIFORMLY BLENDED CLAYEY SAND WITH A PLASTICITY INDEX (PI) OF BETWEEN 4 AND 15. SELECT FILL SHOULD BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS AND COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR DENSITY, AT A MOISTURE CONTENT BETWEEN -2 TO +3 PERCENTAGE POINTS OF OPTIMUM MOISTURE. THE SELECT FILL SHOULD BE PLACED WITHIN APPROXIMATELY SEVEN WORKING DAYS OVER THE REWORKED SUBGRADE TO LIMIT MOISTURE LOSS WITHIN THE UNDERLYING SOILS.
- FLEXIBLE BASE IS DEFINED AS CRUSHED STONE OR CRUSHED CONCRETE MEETING THE REQUIREMENTS OF THE 2004 EDITION OF TXDOT, "STANDARD SPECIFICATION FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES", ITEM 247 GRADE 2, TYPE D OR BETTER. FLEXIBLE BASE SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR DENSITY, AT A MOISTURE CONTENT BETWEEN -2 TO +3 PERCENTAGE POINTS OF OPTIMUM MOISTURE (NO SAND).
- CRUSHED STONE UTILIZED FOR THE DRAINAGE SYSTEM SHOULD CONSIST OF DURABLE GRAVEL MEETING ASTM C 33 SIZE 67 OR COARSER. GRAVEL SHOULD BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 60 PERCENT OF THE RELATIVE DENSITY AS DETERMINED BY ASTM D 4254.
- PROOF-ROLL THE SUBGRADE IN ACCORDANCE WITH ROCKWALL'S CURRENT "STANDARD SPECIFICATION" TO REVEAL SOFT SPOTS. SOFT AREAS SHOULD BE REWORKED & COMPACTED UNTIL THEY CAN BE SUCCESSFULLY PROOF-ROLLED.
- A FULL THICKNESS OF THE BASE COURSE SHOULD BE EXTENDED 5 FEET BEYOND THE BACK OF CURB LINE.
- THE FILL SOILS SHOULD EXTEND AT LEAST FIVE FEET BEYOND THE PERIMETER OF THE STRUCTURE.
- THE CONCRETE IN LIGHT DUTY PAVEMENT AREAS SHOULD HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 POUNDS PER SQUARE INCH AND IN HEAVY DUTY PAVEMENT AREAS, A 28 DAY COMPRESSIVE STRENGTH OF 3,600 PSI IS RECOMMENDED. ASSUMING A NOMINAL MAXIMUM AGGREGATE SIZE OF 1 TO 1 1/2 INCHES, IT IS RECOMMENDED THAT THE CONCRETE HAVE ENTRAINED AIR OF 5 PERCENT ($\pm 1\%$) WITH A MAXIMUM WATER CEMENT RATIO OF 0.50.
- THE EXPANSION JOINT SPACING SHALL BE AT 52' MAX.
- CONTROL JOINTS FORMED BY SAWING ARE RECOMMENDED AT MAX. 12' IN BOTH LONGITUDINAL AND TRANSVERSE DIRECTIONS. CONTROL JOINT SHALL BE SAWED WITHIN 3 HOURS AFTER PLACING CONCRETE. JOINTS SHALL BE PROPERLY CLEANED AND SEALED AS SOON AS POSSIBLE AFTER JOINTS ARE CUT.
- DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATION, BOTH DURING AND AFTER CONSTRUCTION. WATER SHOULD NOT BE ALLOWED TO POND NEAR THE FOUNDATION. THE FOLLOWING ITEMS SHOULD PROVIDE FOR POSITIVE DRAINAGE OF WATER AWAY FROM THE FOUNDATION: SIDEWALKS AND OTHER CONCRETE FLAT WORK, PARKING AREAS, DRIVEWAYS AND OTHER SURFACE DRAINAGE FEATURES, AND LANDSCAPING. FRENCH DRAINS ARE RECOMMENDED AROUND ANY SLABS WHERE SEEPING GROUND WATER IS ENCOUNTERED DURING CONSTRUCTION.
- SIDEWALK AROUND THE BUILDING SHALL NOT BE STRUCTURALLY CONNECTED TO THE BUILDING FOUNDATION UNLESS IT'S NOTED ON THE STRUCTURAL PLANS.
- ANY STAGE IN THE CONSTRUCTION OF THE PAVEMENT A NON-STABLE OR WEAVING CONDITION OF THE SUBGRADE OR BASE COURSE BE NOTED UNDER THE WHEEL LOADS OF CONSTRUCTION EQUIPMENT, SUCH AREAS SHOULD BE DELINEATED AND GEOTECHNICAL ENGINEER CONSULTED FOR REMEDIATION BEFORE COMPLETING THE PAVEMENT SECTION.
- ALL EXPANSION JOINTS AND CRACK CONTROL JOINTS SHOULD BE SEALED TO PREVENT THE INFILTRATION OF WATER INTO THE SUBSURFACE. THIS IS PARTICULARLY IMPORTANT AROUND IRRIGATED LANDSCAPING AND ALONG THE DRAINAGE PATH OF ROOF DOWNSPOUTS.
- LANDSCAPE ISLANDS SHOULD BE BACKFILLED WITH LOW PLASTICITY CLAYS TO REDUCE WATER INTRUSION INTO THE SUBSURFACE PAVEMENT STRUCTURES. CURBS SHOULD BE PROVIDED WITH WEEP HOLES IN LANDSCAPE AREAS TO REDUCE THE BUILD UP OF HYDROSTATIC PRESSURE AND TO REDUCE THE INTRUSION OF WATER INTO THE SUBSURFACE MATERIAL.
- CONSTRUCTION OF WHEEL CHAIR RAMPS WILL BE THE RESPONSIBILITY OF THE PAVING CONTRACTOR AT THE TIME OF PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL PROCEED WITH PAVING NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DENSITY / MOISTURE TESTS HAVE BEEN TAKEN AND PASSED BY A REGULAR TESTING FIRM. COPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE CITY. IN THE EVENT PAVING OPERATIONS HAVE NOT COMMENCED WITHIN THE SEVENTY-TWO-(72) HOUR LIMIT, A RETEST SHALL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
- NO SAND UNDER PAVING.
- DETENTION SYSTEM TO BE INSTALLED AND FULLY FUNCTIONING PRIOR TO ANY INSTALLATION OF PAVING INCLUDING SLAB.
- ALL FILL TO BE COMPACTED TO 95% (MINIMUM) W/SHEEP'S FOOT ROLLER.



PAVEMENT THICKNESS	LEGEND	SUBGRADE	PROP. REINFORCEMENT	PROP. USE
4" THICK CONC. PAVEMENT 3000 P.S.I. (5.5 SACK)		6" TH. STABILIZED SUBGRADE	NO.3 REBAR @ 18" O.C. EACH WAY	SIDEWALK
6" THICK CONC. PAVEMENT 3,600 P.S.I. (6.0 SACK MACHINE PLACED) (6.5 SACK HAND PLACED)		6" TH. STABILIZED SUBGRADE	NO.3 REBAR @ 18" O.C. EACH WAY	PARKING AREA & FIRE LANE
8" THICK CONC. PAVEMENT 3,600 P.S.I. (6.0 SACK MACHINE PLACED) (6.5 SACK HAND PLACED)		6" TH. STABILIZED SUBGRADE	NO.3 REBAR @ 18" O.C. EACH WAY	TRASH ENCLOSURE AREA
10" THICK CONC. PAVEMENT 4,200 P.S.I. (6.0 SACK MACHINE PLACED) (7.5 SACK HAND PLACED)		4" OF TYPE B HOT MIX WITH A PG 64-22 BINDER ON 14" LIME TREATED STABILIZED SUBGRADE AT 6% LIME	NO.3 REBAR @ 12" O.C. EACH WAY	DRIVEWAY & LEFT TURN LANE

- NOTE:**
- REFER SOIL REPORT # 19:6228 PREPARED BY ECS TEXAS,LLP DATED: 12/20/2013 FOR SUBGRADE PREPARATION, PARKING AND DRIVING LANE PAVEMENT THICKNESS AND FOUNDATION RECOMMENDATION.
 - SIDEWALK SHALL NOT BE STRUCTURALLY CONNECTED TO THE BUILDING FOUNDATION UNLESS ITS NOTED ON THE PLANS. PLEASE REFER STRUCTURAL PLANS FOR BUILDING FOUNDATION DETAILS.
 - ALL MATERIALS AND CONSTRUCTION WITHIN EASEMENTS AND R.O.W. SHALL CONFORM TO THE CITY OF ROCKWALL'S STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS OR NCTNOG 3RD EDITION OR TXDOT.



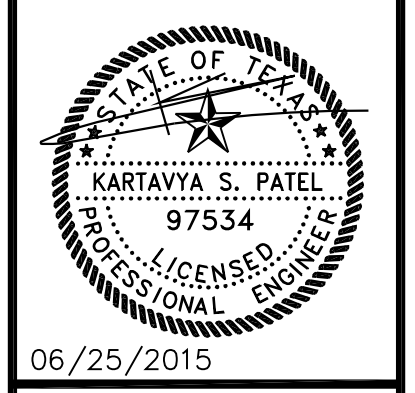
ASBUILT DRAWINGS:
TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC., HEREBY STATES THAT THIS PLAN IS ASBUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

KARTAVYA S. PATEL P.E. NO. 97534

"ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN."

TRIANGLE ENGINEERING, LLC.
TX PE FIRM # 11525
1509 ASTORIA DRIVE, ALLEN, TX 75013
PHONE: 214-609-9271

NO.	DATE	DESCRIPTION
1	05/25/2015	FINAL ASBUILT SUBMITTAL



MEDICAL OFFICE
3018 RIDGE ROAD
ROCKWALL, TEXAS

PAVING PLAN	
PROJECT No:	13-035
DATE:	06/25/2015
DRAWN BY:	KP
CHECKED BY:	KP
SHEET #	7
REVISION #	