

SPECIAL NOTE: NEW PHONE SERVICE TO BUILDING IS TO BE UNDERGROUND SERVICE.
CONTRACTORS TO SCHEDULE INSTALLATION OF U/G TELEPHONE SERVICE CONDUIT WITH OWNER. CONTACT (417) 874-7288
2" PVC SCHEDULE 40 CONDUIT WITH RIGID GALVANIZED STEEL LONG SWEET BENDS @ 18-24" DEPTH FOR PHONE SERVICE.
PROVIDE MINIMUM 1/4" POLYPROPYLENE PULL LINE. PLACE CONDUIT A MINIMUM OF 12" FROM U/G ELECTRIC CONDUIT IN
SAME TRENCH.
CAP END OF CONDUIT AT PROPERTY LINE BELOW FINISHED GRADE AND INSTALL CABLE MARKER FOR PHONE COMPANY, IF
NECESSARY. OTHERWISE, CONTINUE PHONE SERVICE CONDUIT TO A POLE AND INSTALL RIGID GALVANIZED STEEL
CONDUIT A MINIMUM 12" (ft.) ABOVE FINISHED GRADE ATTACHED TO POLE.
CONTRACTOR SHALL COORDINATE INSTALLATION AND VERIFY REQUIREMENTS WITH PHONE COMPANY. PLUS INCLUDE ALL
FEES (IF ANY) BY PHONE COMPANY FOR INSTALLATION OF 25' OF U/G CABLE. IN MENTIONED CONDUIT, TO CONTRACTOR
INSTALLED 1/2" X 6 3/4" FIRE RETARDING GASKET (IF PLYWOOD, PAINT BOARD W/FIRE RETARDING PAINT) WITHIN
UNDERGROUND CONDUIT. CONTRACTOR PROVIDE #6 AWG GUT-GROUND TO TELEPHONE EQUIPMENT LOCATION FROM ELECTRICAL
GROUNDING ELECTRIC SYSTEM. FINAL CONNECTIONS AND INSIDE PHONE WIRING BY OWNER.
ONLY IF UNDERGROUND PHONE SERVICE IS NOT AVAILABLE-CONTRACTOR SHALL INSTALL APPROPRIATE OVERHEAD
PHONE SERVICE RISER, WEATHER HEAD, ETC. COORDINATE WITH CITY & PHONE CO.

1. THE CONTRACTOR IS REQUIRED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID, REFER TO SPECIFICATIONS ALSO.

2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.

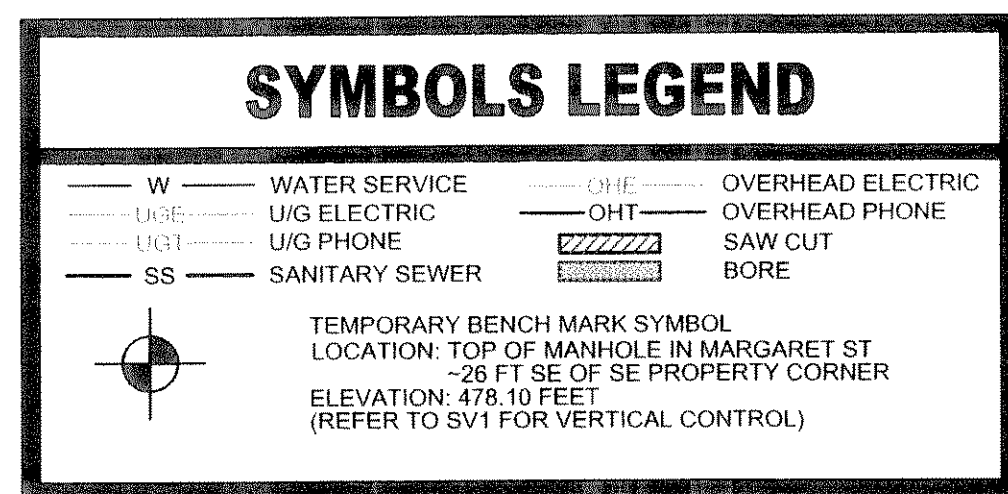
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.

4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND EXTRA WORK SHALL BE PAID FOR BY THE CONTRACTOR.

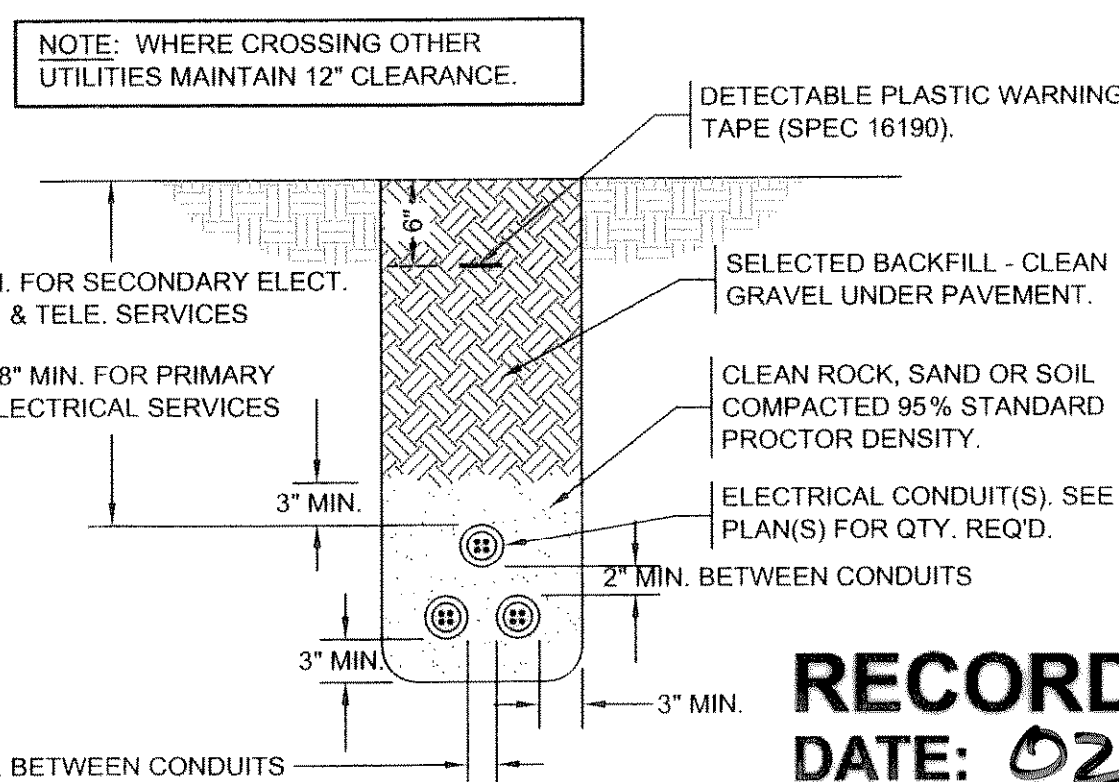
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

1. ALL WATER MAINS TO HAVE THRUST BLOCKS PER CITY OF ROCKWALL, TEXAS STANDARDS.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF ROCKWALL, TEXAS STANDARDS AND SPECIFICATIONS.
3. ALL WATER MAINS AND SERVICES SHALL BE 30" PVC MINIMUM. SEWER LATERALS SHALL BE SDR 35 MINIMUM. SEWER FORCEMAIN SHALL BE CLASS 200 PVC MINIMUM.
4. IF ANY CONFLICT ARISES BETWEEN SPECIFICATIONS ON THESE DESIGN PLANS AND CITY OF ROCKWALL, TEXAS STANDARDS, THE CITY OF ROCKWALL, TEXAS STANDARDS SHALL GOVERN.
5. INSTALL BLUE EMS DISKS AT EVERY WATER VALVE, TE, SERVICE, AND EVERY CHANGE IN DIRECTION.
6. INSTALL GREEN EMS DISKS AT EVERY SEWER MANHOLE, EVERY 100' ON FORCE MAIN, AND SERVICE.

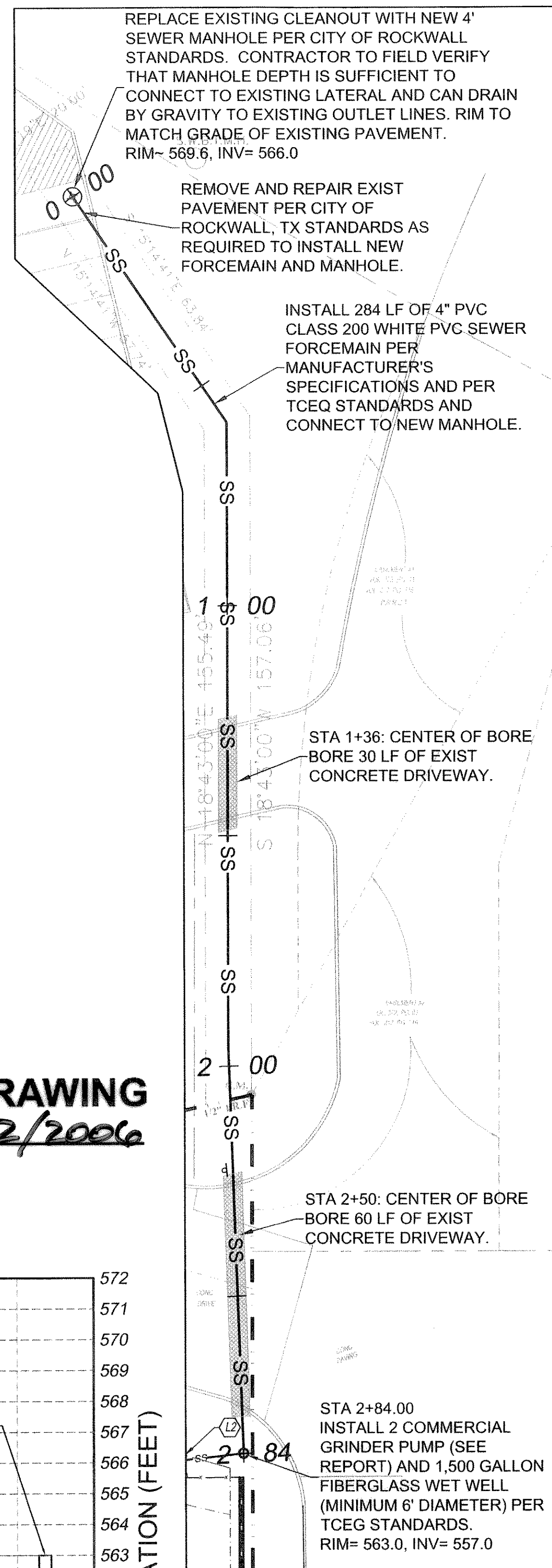
1. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATION OF EXISTING UTILITIES.
2. CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
4. CONTRACTOR SHALL NOTIFY THE CITY OF ROCKWALL, TX CONSTRUCTION INSPECTION OFFICE A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
5. ALL AREAS IN CUT OF FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
7. ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF ROCKWALL, TX STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF ROCKWALL, TX STANDARDS.
8. ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 0.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE. IN PARKING LOTS, LIDS ARE TO MATCH THE FINISH GRADE.
9. ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE SHALL BE PROTECTIVELY ENCASED OR SHALL BE TREATED WITH PROTECT-O-101 OR APPROVED EQUAL.
10. THE CITY OF ROCKWALL, TX SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
11. NO TREES, SHRUBS, PERMANENT STRUCTURES OR OTHER UTILITIES (EXCEPT CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT.
12. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
13. ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR "PICK HOLES" TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
14. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.
15. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
16. EXISTING SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION. PROTECT EXISTING UTILITIES, GASKETS AND BEGINNING WORK.
17. FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEV.
18. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.



(L1) SLEEVES: 4" SCHEDULE 40 PVC SLEEVE REQUIRED BY IRRIGATION PLAN. REFER TO SHEET L3 FOR DETAILS.



SU1 SCALE: NOT TO SCALE



SCALE: 1" = 20'

REFER TO SANITARY SEWER FORCEMAIN REPORT FOR DETAILS
O'REILLY AUTO PARTS:
EMPLOYEES: 10 EMPLOYEES @ 15 GPD = 150 GPD
CUSTOMERS: 6800 SQ.FT. @ 200 GPD/1000 SQ.FT = 1,360 GPD
TOTAL O'REILLY DESIGN FLOW= 1,510 GPD = 1.0 GPM

FUTURE SOUTH LOT
ESTIMATED DESIGN FLOWS SET BASED UPON RETAIL COMMERCIAL DEVELOPMENT
TOTAL ESTIMATED DESIGN FLOW= 1.0 GPM

TOTAL DESIGN FLOWS FROM LOTS = 2.0 GPM - (3,000 GPD)
PEAK DESIGN PEAK DESIGN FLOW = 2.0 GPM - 3 = 5 GPM
GRINDER PUMP STATION SHALL MEET THE FLOW AND TOTAL DYNAMIC HEAD
OUTLINED IN THE SANITARY SEWER FORCEMAIN REPORT FOR THIS PROJECT. THE
GRINDER PUMP SHALL NOT HAVE A PUMP CYCLE OF LESS THAN 6 MINUTES PER
TCEQ STANDARDS. THE WET WELL SHALL HAVE STORAGE VOLUME OF A MINIMUM
OF 100 GALLONS AND WITH A DEPTH CAPABLE OF GRAVITY DRAINING THE SEWER
SERVICE LATERAL FROM NEW O'REILLY AUTO PARTS STORE.

SCALE: 1" = 20'



ISSUED FOR PERMIT: _____
ISSUED FOR BID: _____

REVISIONS:	
NO.#	5 DATE 02/18/05

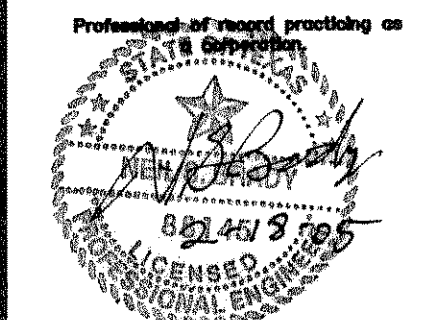
REMARKS:
FINAL APPROVED
ENGINEERING PLANS

**MO ANDERSON (A/E)
—ENGINEERING, INC.**
ENGINEERS • SURVEYORS • LABORATORIES • DRILLING

Reilly — AUTO PARTS —

**LEW O'REILLY AUTO PARTS STORE
RIDGE ROAD
ROCKWALL, TEXAS**

233 SOUTH PATTERSON
SPRINGFIELD, MO 65802
PHONE: (417) 862-3333



NEIL S. BRADY #88145 EXP: 03/31/0
PROFESSIONAL OF RECORD
PHONE: 417-868-2741

JOB NO.:	904522
DRAWN:	PJE
CHECKED:	NSB
DATE:	03/01/04
SCALE:	1" = 20'
SHEET:	

SU1