

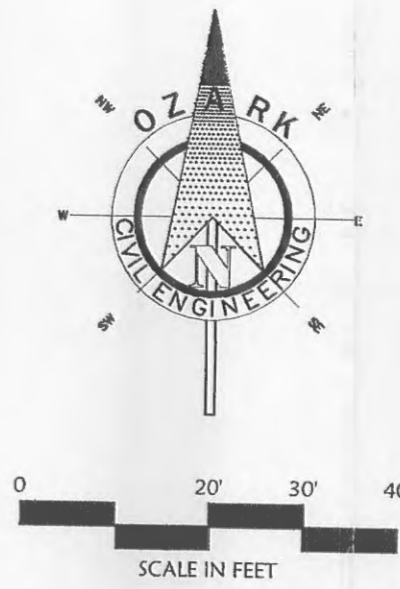
UTILITY GENERAL NOTES:

ALL WATER LINES SHALL HAVE A MINIMUM OF 3'-6" COVER ABOVE TOP OF PIPE.
 ALL SANITARY SEWER LINES SHALL HAVE A MINIMUM COVER OF 3'-0" COVER ABOVE TOP OF PIPE.
 PROPOSED UTILITIES TO BE BURIED IN THE SAME TRENCH INSTALLATION SHALL BE COORDINATED AND APPROVED BY LOCAL UTILITY COMPANIES.
 VERIFY LOCATION AND DEPTH OF EXISTING UTILITY BEFORE CONSTRUCTING PROPOSED UTILITY.
 CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
 ALL ELECTRIC, TELEPHONE AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
 CONTRACTOR SHALL NOT START ON ANY PUBLIC UTILITY EXISTING UTILITIES UNLESS APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
 THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINES IS EIGHTEEN INCHES (18').
 ALL TRENCHING, PIPE LAYING, AND BACK FILLING PROCEDURES SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
 PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM OSHA, CHIEF ENGINEERING AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. OSHA CHIEF ENGINEERING AND HIS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
 ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL SD49 (SEE DETAIL SHEETS)
 ALL SANITARY SEWER PIPE BEDDING SHALL BE INSTALLED PER DETAIL SD49 (SEE DETAIL SHEETS)
 CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY CONSTRUCTION DIVISION TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK ON THIS PROJECT. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
 EXISTING UTILITIES ACROSS OR ALONG THE LINE OF THE PROPOSED WORK ARE SHOWN ONLY IN AN APPROXIMATE LOCATION ON THESE PLANS. CONTRACTOR SHALL CALL THE STATE ONE-CALL SYSTEM OR DESIGNATED UTILITY COMPANY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL OBTAIN HIS OWN INSTITUTE AND AT NO ADDITIONAL COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND LINES OR STRUCTURES.
 CONTRACTOR SHALL NOT TAP OR OTHERWISE PENETRATE EXISTING WATER AND SEWER MAIN LINES WITHOUT PRIOR APPROVAL FROM THE CITY INSPECTOR. CONTRACTOR IS RESPONSIBLE FOR AVOIDING SPILLAGE OF RAW SEWAGE. CONTRACTOR SHALL PROVIDE ALL SEWER PUMPING AND PUMPING EQUIPMENT NECESSARY TO AVOID SPILLAGE. CONTRACTOR SHALL NOT OPERATE VALVES ON EXISTING WATER MAINS.
 THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO SPECIFICALLY MENTION WORK WHICH IS REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
 CONTRACTOR SHALL MATCH TOP OF PROPOSED SANITARY SEWER MANHOLE TO PROPOSED GRADE. IF A DISCREPANCY OCCURS BETWEEN PROPOSED GRADES AND PROPOSED STRUCTURE TOPS, THE GRADING SHALL GOVERN. IF THE DISCREPANCY IS MORE THAN 4 INCHES THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.
 ALL UTILITIES, INCLUDING STORM SEWER, SHOWN WITHIN PUBLIC EASEMENTS OR RIGHT OF WAYS SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENT OR THE GOVERNING AGENCY SPECIFICATIONS WHICH ARE MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.
 IF SANITARY SEWER MANHOLE IS LOCATED IN A GRASS AREA OR BLOW, CONTRACTOR SHALL CONTRACT MANHOLE TOP TO AN ELEVATION 6 INCHES HIGHER THAN THE PROPOSED GRADE. IF THIS CANNOT BE ACHIEVED THEN CONTRACTOR SHALL USE A WATER TIGHT MANHOLE COVER THAT MEETS OR EXCEEDS THE OWNER'S/DEVELOPER'S STANDARD SPECIFICATIONS.
 ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
 CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTING EXISTING UTILITY LINE AS REQUIRED BY CUT AND FILL AT NO ADDITIONAL COST TO THE OWNER.
 CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AND ARCHITECT SHOULD ANY LIGHT POLE OR SIGN FOUNDATIONS CONFLICT WITH ANY UTILITY AND/OR STORM SEWER SYSTEM.
 GENERAL CONTRACTOR SHALL PROVIDE 2' x 2' x 6" THICK CONCRETE APRON AT ALL CLEANOUTS, GATE VALVES, AND METER BOXES ETC. OUTSIDE OF BUILDING AND IN PAVED AREAS.
 GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE IN FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
 ELECTRICAL SERVICE TO PAD MOUNTED TRANSFORMER SHALL BE UNDERGROUND, FROM ROAD RIGHT-OF-WAY TO TRANSFORMER LOCATION. ASSOCIATED COST BY GENERAL CONTRACTOR.
 UTILITY CONTRACTOR SHALL FURNISH (2) - 4" TELEPHONE COUPLERS AS SHOWN ON PLAN. VERIFY LOCATION OF THE IN AT TELEPHONE COMPANIES SERVICE LINE. PROVIDE WIRELESS PULL CORD INSIDE CONDUIT.
 DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING UNLESS OTHERWISE NOTED.
 ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED GATE VALVE A MAXIMUM OF 5'-0" FROM HYDRANT.
 REFER TO PLUMBING SHEETS FOR LOCATION OF SEWER, DOMESTIC, AND IRRIGATION CONNECTIONS

SITE BENCHMARK:
 X CUT IN CONCRETE APPROX. 37.5' NORTH OF
 SOUTHWEST CORNER OF PROPERTY.
 ELEVATION: 550.17



MODOT CALL NUMBER:
 314-340-4100



INTERSTATE HIGHWAY TO
 (R/W VARIES & CENTERLINE
 CANNOT BE DETERMINED)

NOTE:
 ALL WORK IN STATE OF MISSOURI RIGHT OF
 WAY REQUIRES PERMIT FROM MISSOURI
 DEPARTMENT OF TRANSPORTATION.

UTILITY PROPOSED FEATURES

---	BOUNDARY LINE
---	RIGHT OF WAY LINE
---	EASEMENT LINE
---	CONCRETE CURB AND GUTTER
---	FENCE
---	GUARD RAIL
---	RETAINING WALL
---	STORM DRAIN (SEE GRADING PLAN FOR SIZE)
---	SANITARY SEWER SERVICE
---	WATER SERVICE
---	UNDERGROUND ELECTRIC SERVICE
---	UNDERGROUND TELEPHONE SERVICE
---	OVERHEAD ELECTRIC SERVICE
---	OVERHEAD TELEPHONE SERVICE
---	FIBER OPTIC CABLE SERVICE
---	GAS SERVICE
---	DROP INLETS (SEE GRADING PLAN FOR TYPE)

UTILITY NOTES

Items labeled by the following symbols are shown on this sheet.

XXX	MAINTAIN MINIMUM 18" VERTICAL SEPARATION
VS	1.5" TELEPHONE CONDUIT (PVC SCHEDULE 40)
U01	4" SCHEDULE 40 PVC CONDUIT
U02	POINT OF CONNECTION (PER LOCAL CODES)

UTILITY DETAILS

Items labeled by the following symbols are shown on this sheet and referenced on detail sheets, which are included as part of this set of plans.

SD371	CLEANOUT DETAIL
SD372	TYPICAL EXTERIOR GREASE TRAP
SD68	FIRE HYDRANT ASSEMBLY

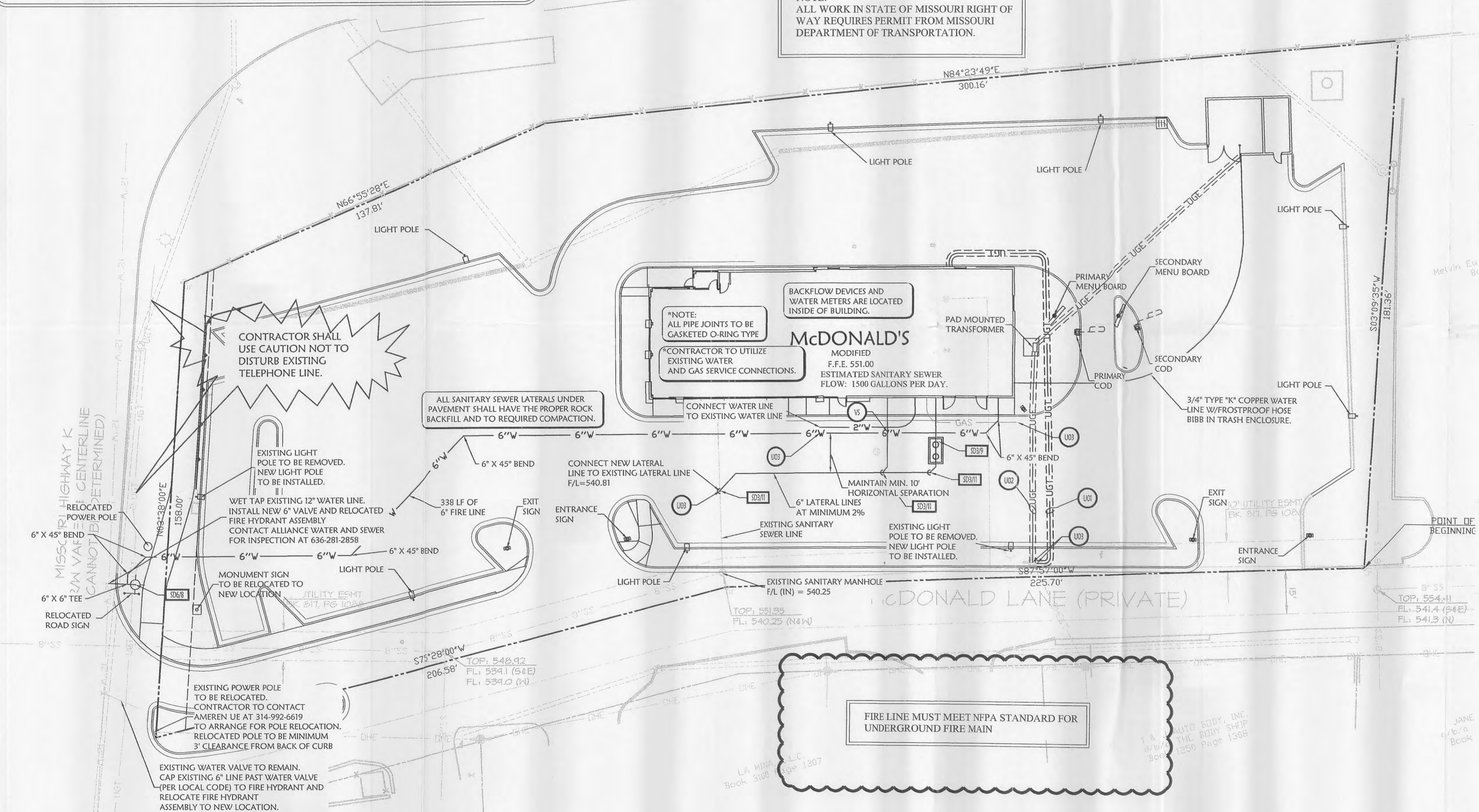
DATE	REV	DESCRIPTION
12/15/06	2	RESUBMITTAL WITH REVISIONS TO MCDONALDS DRIVE
01/16/07	3	CITY COMMENTS
02/13/07	4	REMOVED LEFT TURN LANE ON MCDONALDS DRIVE
05/30/07	5	REMOVED LEFT TURN LANE ON MCDONALDS DRIVE
05/19/07	6	SUBMITTAL FOR PLANNING COMMISSION
06/15/07	7	RESUBMITTAL FOR PLANNING COMMISSION
08/16/07	8	CITY SUBMITTAL
10/1/07	9	CITY COMMENTS 9-18-07
10/9/07	10	MODOT COMMENTS
12/18/07	11	CITY COMMENTS 11-06-07
03/12/08	12	RELOCATED POWER POLE
04/4/08	13	REVISED PAVEMENT CHECK FIRE LINE ADDED



*ASPHALT PAVEMENT SECTION FOR SITE TO BE 3" ASPHALT COURSE COMPACTED TO 95% DENSITY AND 8" COMPACTED STONE BASE COMPACTED TO 98% MODIFIED PROCTOR (PER GEOTECH SPECIFICATIONS).

(REFER TO MCDONALDS PROJECT MANAGER FOR FURTHER DETAILS)

Clark Civil Engineering Inc.
 Civil Engineering Inc.
 Corp. Office: 1008 N.W. 75th St., Ft. Lauderdale, FL 33309
 (954) 444-8800 / (954) 444-9900 (F)
 Regional Office: 11285 Strong Dr., Belton, TX 77711
 (937) 310-0470 / (937) 310-0261 (F)



FIRE LINE MUST MEET NFPA STANDARD FOR UNDERGROUND FIRE MAIN

NOTE:
 ALL UTILITY COMPANIES SERVING THE DEVELOPMENT AND THE CITY OF OFALLON SHALL BE CONTACTED FOR UTILITY LOCATES UNDER ITS MAINTENANCE RESPONSIBILITY.

THIS MAY INCLUDE WATER, SANITARY, STORM AND TRAFFIC LOCATES

PLANNING AND DEVELOPMENT FILE #2306
 APPROVED AUGUST 2, 2007

CITY OF OFALLON
 COMMUNITY DEVELOPMENT DEPARTMENT
 ACCEPTED FOR CONSTRUCTION
 BY: [Signature] DATE: 5-2-08
 PROFESSIONAL ENGINEER'S SEAL
 INDICATES RESPONSIBILITY FOR DESIGN
 MAY 16 2008
 CONSTRUCTION INSPECTION
 CITY OF OFALLON

STREET ADDRESS 101 MCDONALDS LANE		STATUS	DATE	BY
CITY OFALLON	STATE MISSOURI	PRELIMINARY	-/-/-	-
COUNTY ST. CHARLES		PLAN CHECKED	-/-/-	-
REGIONAL DWG. NO. 24/0130		AS-BUILT	-/-/-	-
PROJECT NO. 06-0620		PROJECT NO.	06-0620	
UTILITY PLAN		C-7		

McDonald's
 THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF MCDONALDS CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.
 10801 MASTIN BLVD., STE. 400, OVERLAND PARK, KS 66210
 OFFICE ADDRESS

Const. Inspector