

*NOTE:
ALL STORM WATER DRAINAGE FROM SITE LEAVES SITE THROUGH TWO EXISTING CURB INLETS ON NORTH SIDE OF LOT ONTO MISSOURI RIGHT-OF-WAY.
NO INCREASE IN FLOW ADDED TO OFFSITE DRAINAGE.

INTERSTATE HIGHWAY 70
(R/W VARIES & CENTERLINE CANNOT BE DETERMINED)



MODOT CALL NUMBER:
314-340-4100



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

GRADING AND DRAINAGE NOTES:

INFORMATION PERTAINING TO UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD LOCATIONS WHEN POSSIBLE. BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS IN ADVANCE OF MACHINE TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED ON THESE PLANS OR IF SPECIFIED IS LESS, CONTACT THE ENGINEER AND THE OWNER/DEVELOPER PRIOR TO PROCEEDING WITH CONSTRUCTION.

ALL STRUCTURES LOCATED WITHIN R.O.W. OR OTHERWISE NOTED ON THESE PLANS SHALL BE CONSTRUCTED PER THE HIGHWAY DEPARTMENT'S STANDARDS. IF STRUCTURES ARE NOT PROTOTYPICAL OR CONSTRUCTION CANNOT BE ACHIEVED CONTRACTOR SHALL SUBMIT SHOP DRAWING TO OZARK CIVIL ENGINEERING, INC. FOR REVIEW AND APPROVAL.

WHERE THE WORD PIPE IS USED ON THESE PLANS, THE CONTRACTOR HAS THE OPTION TO BID MATERIAL WITH $n=0.012$ OR LESS.

CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OR REMOVAL OF EXISTING UNDERGROUND UTILITIES SHOWN OR NOT SHOWN AT NO ADDITIONAL COST TO THE OWNER.

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 BE HELD RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS.

ALL STORM DRAIN PIPES ARE MEASURED FROM CENTER OF STRUCTURES AND ENDS OF FLARED END SECTION.

RETAINING WALLS SHALL BE CONSTRUCTED TO EXTEND A MINIMUM OF 6 INCHES ABOVE THE TOP OF FINISHED GRADE. CONTRACTOR SHALL REFER TO THE RETAINING WALL PLANS FOR CONSTRUCTION AND DESIGN SPECIFICATIONS. CONTRACTOR SHALL NOTIFY OZARK CIVIL ENGINEERING, INC. IF RETAINING WALL PLANS DIFFER FROM THIS.

ALL DISTURBED AREAS AND SLOPES SHALL BE GRADED SMOOTH AND 1% OF TOP SOIL APPLIED. THE AREA SHALL BE SEED AND WATERED UNTIL PASTY GRASS GROWTH HAS BEEN ESTABLISHED. SEE LANDSCAPING GENERAL NOTES FOR SEEDING SPECIFICATIONS.

CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL PRACTICES IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND CONSTRUCTION SCHEDULE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE SWAMP.

REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FILLED, AND PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS.

SCARPED AREAS TO RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 3 INCHES BEFORE PLACING TOPSOIL PER OWNER/DEVELOPER, CITY AND/OR HIGHWAY DEPARTMENT SPECIFICATIONS.

CLEAR AND GRUB AREAS TO BE FILLED. REMOVE TREES, VEGETATION, ROOTS OR OTHER DEBRIS, AND OTHER MATERIALS THAT WOULD AFFECT THE STABILITY OF THE FILL.

ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER MATERIALS INAPPROPRIATE FOR CONSTRUCTING STABLE FILL.

DO NOT INCORPORATE FROZEN MATERIAL OR SOFT, MUCK, OR HIGHLY COMPRESSIBLE MATERIALS INTO FILL SLOPES.

KEEP DIVERSIONS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.

PERMANENTLY STABILIZE ALL GRADED AREAS AFTER FINAL GRADING IS COMPLETED ON EACH AREA OF THE GRADING PLAN. APPLY TEMPORARY STABILIZATION MEASURES ON ALL GRADED AREAS WHEN WORK IS TO BE INTERRUPTED OR DELAYED (SEE EROSION CONTROL PLANS).

CONTRACTOR SHALL MATCH TOP OF PROPOSED DRAINAGE STRUCTURES WITH PROPOSED GRADES. IF A DISCREPANCY OCCURS BETWEEN PROPOSED GRADE AND PROPOSED STRUCTURE TOP, 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 GASMETS OR RIGHT OF WAY SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY'S SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENT OR THE GOVERNING AGENCY'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.

ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, ALL FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF PER CITY, UNLESS OTHERWISE NOTED. ANY BURNING ON SITE SHALL BE SUBJECT TO LOCAL ORDINANCES AND/OR THE OWNER/DEVELOPER STANDARDS AND SPECIFICATIONS. (SEE DISSEMINATION PLAN).

ALL DRAINAGE STRUCTURES SHALL BE PRECAST.

ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (#50) LOADING AND BE INSTALLED ACCORDINGLY.

CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY (STATE ONE CALL SYSTEM) AND LOCATE ALL UTILITIES PRIOR TO GRADING START.

SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.

AFTER PERMITS HAVE BEEN OBTAINED & EROSION CONTROL MEASURES INSTALLED, THE CONTRACTOR SHALL GRADE BUILDING PAD & APRONS TO 1/2" OF SUBGRADE.

IMMEDIATELY APPLY & COMPACT STONE BASE FOR BUILDING PAD TO 1/2" PRIOR TO EXCAVATING INTERIOR & PERIMETER FOOTINGS.

GENERAL CONTRACTOR SHALL PROVIDE 2' x 2' x 8" THICK CONCRETE APRON AT ALL CLEANOUTS OUTSIDE OF BUILDING AND PAVED AREAS.

CITY NOTES:
CONNECTIONS AT ALL STORM STRUCTURES TO BE MADE WITH A LOCK JOINT OR EQUAL.
HOLE PIPE IS TO BE 12" OR EQUAL AND TO MEET ASTM F1917 WATER TIGHT FIELD TEST.

ALL FILL PLACED UNDER PROPOSED STORM AND SANITARY SEWER, PROPOSED ROADS, AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHOT T-99 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST. ALL FILL PLACED IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP. ALL TEST SHALL BE WITNESSED BY A SOIL ENGINEER CONSULTING WITH GRADING AND BACKFILLING OPERATIONS. THE CONTRACTOR SHALL MEET THE ABOVE REQUIREMENTS AS SET FORTH BY THE CITY OR ADHERE TO THE GEOTECHNICAL RECOMMENDATIONS, WHICH EVER IS MORE STRINGENT.

CONTRACTOR SHALL PROVIDE 5/8" DIAMETER TRASH BAR FOR ALL INLETS.

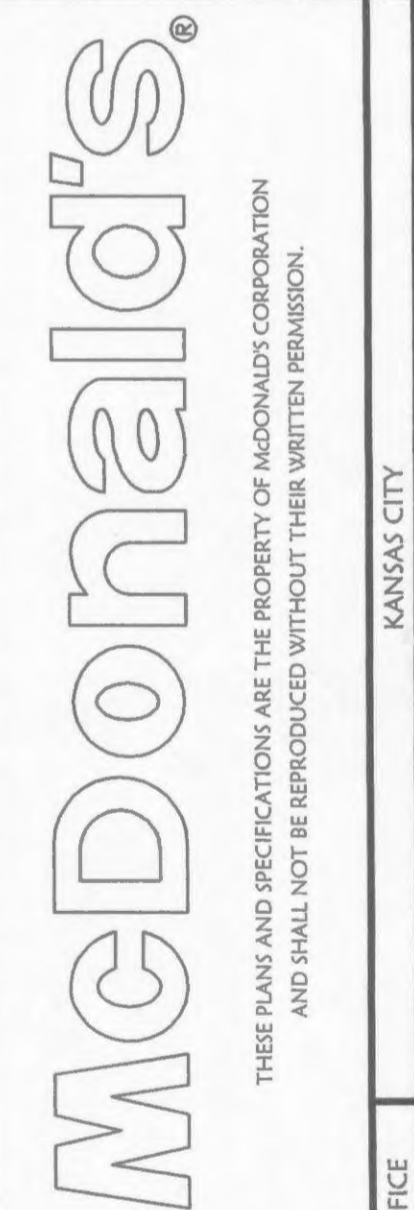
NO SLOPES SHALL BE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.

BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF PROPOSED STORM SEWER STRUCTURES. PRECAST CONCRETE STRUCTURES ARE TO BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF OFFICIAL.



*ASPHALT PAVEMENT SECTION TO BE 3" ASPHALT COURSE COMPACTED TO 95% DENSITY AND 18" COMPACTED STONE BASE COMPACTED TO 98% MODIFIED PROCTOR (PER GEOTECH SPECIFICATIONS).

(REFER TO McDONALDS PROJECT MANAGER FOR FURTHER DETAILS)



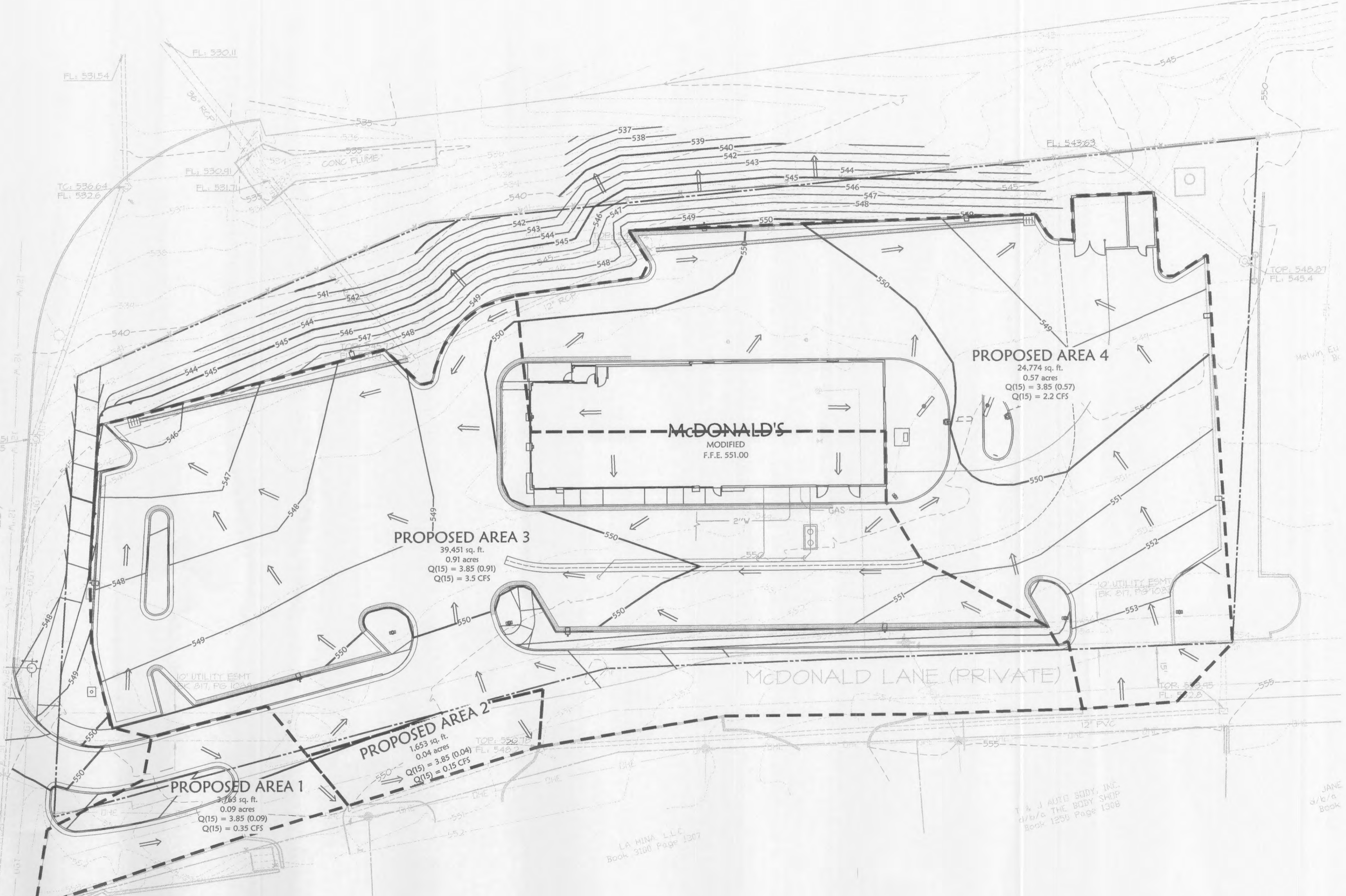
OFFICE ADDRESS	10801 MASTIN BLVD., STE. 400, OVERLAND PARK, KS 66210	
STATUS	DATE	BY
PRELIMINARY	---/---/---	-
PLAN CHECKED	---/---/---	-
AS-BUILT	---/---/---	-
PROJECT NO.	06-0620	

GRADING PROPOSED FEATURES

---	BOUNDARY LINE
---	RIGHT OF WAY LINE
---	EASEMENT LINE
---	CONCRETE CURB AND GUTTER
---	FENCE
---	GUARD RAIL
---	RETAINING WALL
---	SANITARY SEWER SERVICE
---	WATER SERVICE
---	UNDERGROUND ELECTRIC SERVICE
---	UNDERGROUND TELEPHONE SERVICE
---	OVERHEAD ELECTRIC SERVICE
---	OVERHEAD TELEPHONE SERVICE
---	FIBER OPTIC CABLE SERVICE
---	GAS SERVICE
---	SPOT ELEVATIONS:
TC	TOP OF CURB
G	GUTTER OF CURB
TC	TOP OF GRADE (BEHIND TOP OF WALL)
RG	BOTTOM OF GRADE (AT FRONT OF WALL)
HP	HIGH POINT
LP	LOW POINT
IP	EDGE OF PAVEMENT
FES	FLARED END SECTION
---	RIP-RAP PAD (SEE EROSION PLANS FOR SIZE)
---	SANITARY SEWER MANHOLE
---	FIRE HYDRANT WITH GUARD POSTS
---	UTILITY POLE
---	WATER LINE TEE, BEND, VALVE, AND PLUG

STREET ADDRESS	
101 MCDONALDS LANE	
CITY	STATE
OFALLON	MISSOURI
COUNTY	
ST. CHARLES	
REGIONAL DWG. NO	
24/0130	
DRAINAGE AREA	

PLANNING AND DEVELOPMENT FILE #2306
APPROVED AUGUST 2, 2007



MISSOURI HIGHWAY K
(R/W VARIES & CENTERLINE CANNOT BE DETERMINED)

U-GAS PROPERTIES, INC.
Book 2075 Page 1600

LA MINA LLC
Book 3100 Page 1307

T & J AUTO BODY, INC.
12120 THE BODY SHOP
Book 1250 Page 1308

JANE
d/b/a
Book