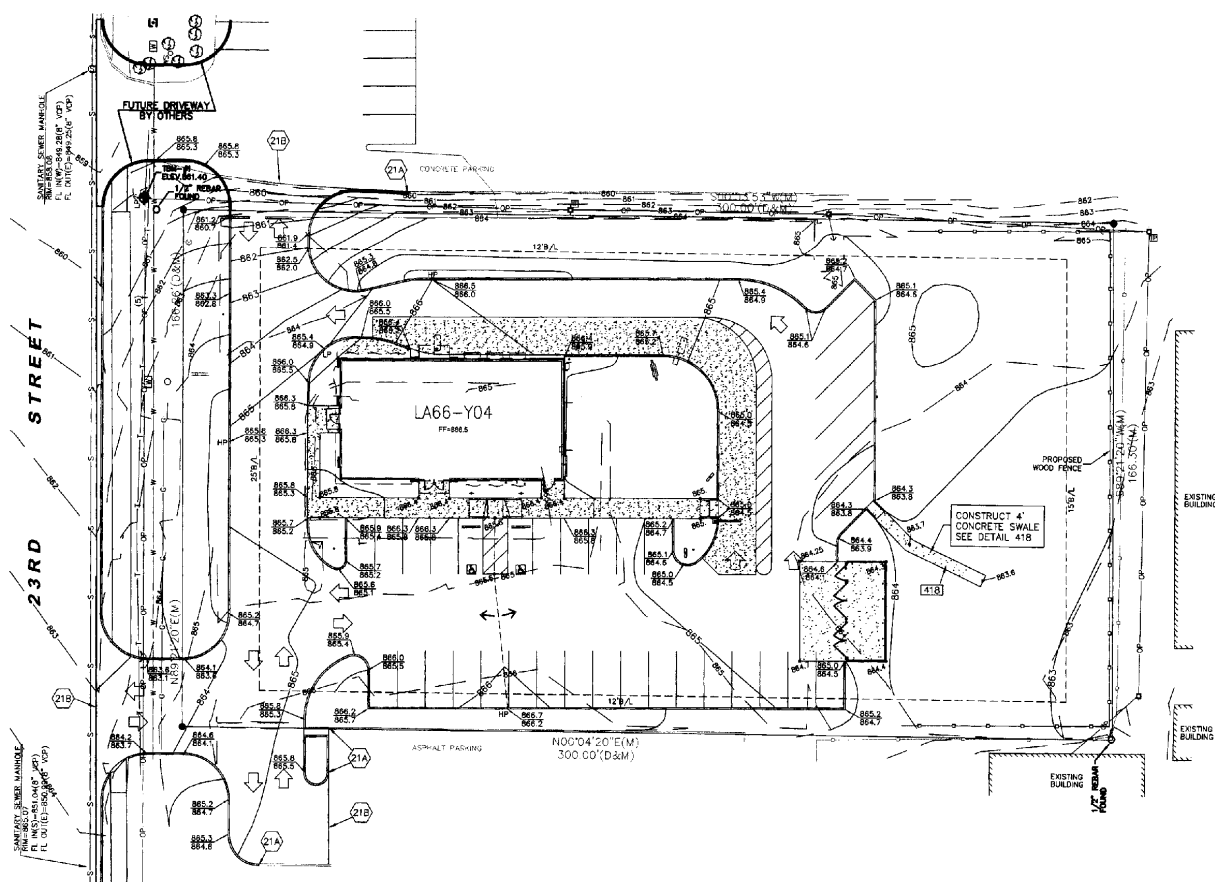




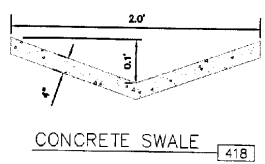
- GENERAL NOTES:**
1. THE CONTRACTOR SHALL PROVIDE COMPACTION TESTS FOR THE SITE GRADING TO THE SATISFACTION OF THE REQUIREMENTS OUTLINED WITHIN THE GEOTECHNICAL REPORT.
 2. CLEAR AND GRUB ALL STUMPS, ROOTS, TREES AND BRUSH WITHIN THE GRADING LIMITS AND DISPOSE OF OFF SITE.
 3. DEMOLITION OF EXISTING FEATURES (I.E. PAVEMENT, CURBS, STRUCTURES) AND OTHER SUCH INCIDENTALS AS DESIGNATED ON PLANS OR DEMED NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
 4. ALL DEBRIS AND WASTE MATERIAL REMOVED DURING DEMOLITION AND CLEARING OPERATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT SITE. DISPOSAL OF WASTE MATERIALS SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING ALL PERMITS, BONDS AND PROVIDING ALL INSURANCE REQUIRED FOR HAULING AND DISPOSAL OF WASTE MATERIALS. BURNING OR BURYING OF WASTE MATERIALS AND DEBRIS ON-SITE WILL NOT BE PERMITTED.
 5. STRIP TOPSOIL AND VEGETATION A MINIMUM OF 4 INCHES AND STOCKPILE FOR USE AS TOPSOIL WHERE VEGETATION IS TO BE REESTABLISHED.
 6. NO FROZEN OR FROST LADEN SOIL IS TO BE PLACED IN EMBANKMENT. NO FILL SHALL BE PLACED ON FROZEN GROUND.
 7. ALL AREAS TO RECEIVE FILL MATERIAL MUST BE SCARIFIED TO A MINIMUM DEPTH OF 8" TO INSURE THE BOND BETWEEN THE EXISTING SURFACE AND THE NEW FILL. FILL SHALL BE CONSTRUCTED IN 8" LIFTS AFTER COMPACTION, OR AS MORE SPECIFICALLY DEFINED WITHIN THE GEOTECHNICAL REPORT.
 8. IMMEDIATELY PRIOR TO PLACEMENT OF NEW FILL MATERIAL, THE EXISTING SUBGRADE SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% AS DETERMINED BY ASTM D-698. ALL SOFT OR UNSUITABLE MATERIALS IDENTIFIED DURING COMPACTION EFFORTS SHALL BE UNDERCUT, REMOVED AND REPLACED WITH MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER.
 9. ALL FILLS SHALL BE CONSIDERED STRUCTURAL FILL AND SHALL BE FREE OF VEGETATION, ORGANIC MATTER, TOPSOIL AND DEBRIS. STRUCTURAL FILL MATERIAL SHALL BE DEFINED AS A LOW PLASTICITY COHESIVE SOIL, HAVING A LIQUID LIMIT LESS THAN FORTY-FIVE PERCENT (45%), WITH A PLASTICITY INDEX LESS THAN TWENTY-FIVE (25). THE FILL MATERIAL SHALL CONTAIN NO PARTICLES WITH A DIAMETER LARGER THAN 3 INCHES. STRUCTURAL FILLS SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
 10. ALL FILL AREAS SHALL BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D-698.
 11. WHERE FILL MATERIAL IS TO BE PLACED ON EXISTING SLOPES GREATER THAN 2:1 (HORIZONTAL TO VERTICAL), EXISTING SLOPE SHALL BE BENCHED PROVIDING A MINIMUM VERTICAL FACE OF NINE (9") INCHES. FILL MATERIAL SHALL BE PLACED AND COMPACTED IN HORIZONTAL LIFTS NOT EXCEEDING SIX (6") (AFTER COMPACTION) UNLESS OTHERWISE APPROVED BY THE GEOTECHNICAL ENGINEER.
 12. ALL SUBGRADE IN EXCAVATED AREAS UNDER PROPOSED PAVEMENT SHALL BE SCARIFIED A MINIMUM OF 12" AND RECOMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AS PER ASTM D-698, OR AS MORE SPECIFICALLY DEFINED WITHIN THE GEOTECHNICAL REPORT.
 13. ALL PAVEMENT SUBGRADE SHALL BE EVALUATED AND TESTED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE IMMEDIATELY PRIOR TO PLACEMENT OF PAVEMENT. UNSUITABLE AREAS SHALL BE IDENTIFIED AND CORRECTED IN ACCORDANCE WITH RECOMMENDATIONS.

14. THE SITE GRADING CONTRACTOR WILL BE RESPONSIBLE FOR GRADING THE SITE TO WITHIN PLUS/MINUS ONE-TENTH OF ONE FOOT (0.01') OF PROPOSED SUBGRADE FOR AREAS RECEIVING PAVEMENT OR OTHER TYPES OF HARD SURFACING AND FINISHED GRADE IN AREAS WHICH DO NOT RECEIVE HARD SURFACING.
 15. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE OWNER ON THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROPPOLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
 17. ALL SLOPES ARE TO BE 3:1 OR FLATTER.
 18. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. REFER TO LANDSCAPE PLAN FOR ESTABLISHING GROUND COVER AND PLANTING BED LOCATIONS. ANY AREAS DISTURBED AFTER SEEDING OR SOODING FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- CONSTRUCTION NOTES:**
1. GRADING ON THIS PROJECT REQUIRES PRECISE FINE GRADING IN ALL AREAS. DRAINAGE SWALES AND SIDEWALK GRADES WILL BE CRITICAL TO PROVIDE POSITIVE SITE DRAINAGE.
 2. REVERSE GUTTER FLOW IN CURB AND GUTTER WILL BE REQUIRED IN MANY AREAS. CONTRACTOR TO REVIEW SITE DRAINAGE EQUIREMENTS AND PROVIDE REVERSE GUTTERS WHERE REQUIRED.

316-687-2470
1-800-DIG-SAFE

PROJECT MANAGER: GARY A. LEEDS
FIRM NAME: KAW VALLEY ENGINEERING
PROJ. #: CM02011
CFN: D1_2311GP-03

KV Kaw Valley Engineering, Inc.
1770 West 114th Terrace
Lawrence, Kansas 66044
(913) 844-1150 Fax (913) 854-1877



UTILITY NOTE:
THE UTILITIES AS SHOWN ON THIS DRAWING WERE DEVELOPED FROM THE INFORMATION AVAILABLE ON THE DATE OF THE SURVEY. THIS IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE.

BENCHMARKS:
BM-1E1554: (U.S.G.S. DATUM) 1" IRON BAR IN 8" LOGO CAP AT THE INTERSECTION OF 19TH STREET AND THE SANTA FE RAILROAD APPROXIMATELY 100 FEET WEST OF THE NEAR RAIL, 28 FEET NORTH OF THE CENTER OF THE STREET AND APPROXIMATELY 5 FEET WEST OF A UTILITY POLE WITH 4 GUY WIRES. ELEVATION=851.14
BM-#1: RAILROAD SPIKE SET 1.5± ABOVE GROUND IN NORTH FACE OF POWER POLE LOCATED APPROXIMATELY 4 FEET NORTH AND 4 FEET EAST OF THE NORTHEAST CORNER OF SUBJECT PROPERTY. ELEVATION=861.40

- LEGEND:**
- 863.4 SPOT ELEVATION
 - 866.5 TOP OF CURB
 - 866.5 FLOWLINE OF CURB
 - ← FLOW DIRECTION
 - BREAK LINE
 - 1040 PROPOSED GRADE
 - 1040 EXISTING GRADE

- NOTES:**
- 21A MATCH EXISTING CURB ELEVATIONS
 - 21B MATCH EXISTING PAVEMENT ELEVATION
 - 21D MATCH EXISTING SIDEWALK ELEVATION
- DETAILS - SEE THIS SHEET FOR THE FOLLOWING DETAIL(S)
41B CONCRETE DRAINAGE FLUME

304095

6-16-05 City Comments

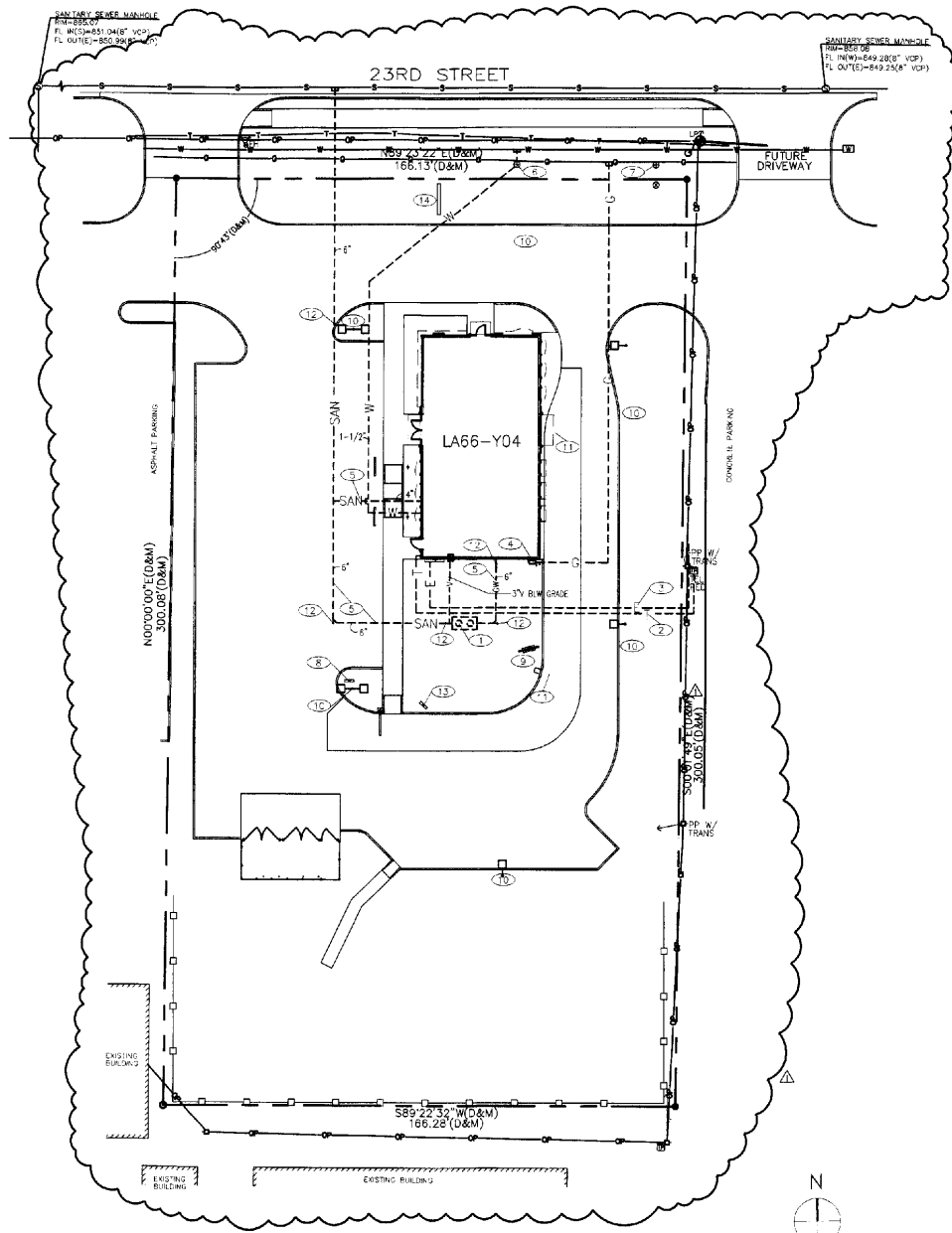
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CONTRACT DATE: 03.04.05
BUILDING TYPE: LA66-y04
PLAN VERSION: 0404-1
SITE NUMBER: 286094
STORE NUMBER:
IJS / A&W
1803 W 23rd Street
LAWRENCE, KS

LA66-y04
GRADING
PLAN

C3

PLT DATE: 04.16.05



UTILITY PLAN

SCALE: 1"=20'-0"

LEGEND

—○— GAS LINE	
--- WATER LINE	
---T--- UNDERGROUND TELEPHONE LINE	
---E--- UNDERGROUND ELECTRIC LINE	
---SAN--- SANITARY SERVICE	
■ SITE LIGHT FIXTURE	

UTILITY NOTES

1. ALL FILL, COMPACTION AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SUPERVISORS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER SHORING AND TRENCH PROTECTION IN ACCORDANCE WITH ALL STATE AND LOCAL SAFETY CODES AND ORDINANCES.
3. THE INTENT OF THIS PLAN IS A COMPLETED JOB. ANY MATERIALS OR WORK NOT SPECIFICALLY LISTED AS A PAY ITEM IS CONSIDERED TO BE INCIDENTAL AND IS TO BE INCLUDED IN THE PRICE B.I. FOR OTHER ITEMS FOR PAYMENT. THE CONTRACTOR SHALL, UPON REVIEW OF THE PLANS, AND PRIOR TO SUBMITTING THE BID, NOTIFY THE ENGINEER AND OWNER OF ANY SPECIFIC NON-PAY ITEM TO BE BID.
4. VERIFY SIZE OF WATER LINE AND SPECIFIC METERING REQUIREMENTS WITH: BOTH CITY & COUNTY AND LOCAL UTILITY COMPANY. NOTE: A MIN. OF 42" COVER IS REQUIRED.
5. MINIMUM 4" SANITARY SERVICE, VERIFY MATERIAL AND CONNECTION REQUIREMENTS WITH BOTH CITY & COUNTY AND 42" LOCAL SERVICE JURISDICTION PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
7. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
8. DISCONNECTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE APPROPRIATE GOVERNING AUTHORITY.
9. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY FORM DRAIN, SANITARY SERVICE, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND NOTIFY THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION MUST BE MADE AND PROVIDED TO THE CITY OF 48 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

KEY NOTES

1. 1000 GAL. GREASE INTERCEPTOR PER LOCAL CODE REQUIREMENTS. REF: WCH.
2. NEW 1/2" TELEPHONE SERVICE. OC. SHALL PROVIDE 2" CONDUIT FROM SERVICE SOURCE TO BUILDING. CONTACT: NRC (800-464-7928).
3. NEW 1/2" ELECTRIC SERVICE. OC. SHALL PROVIDE CONDUIT, IT AND WIRE FROM TRANSFORMER TO BUILDING. EXISTING TRANSFORMER ON HOLE CONTACT: WESTAR ENERGY.
4. NEW GAS METER AND GAS SERVICE. GAS COMPANY WILL BRING NEW SERVICE TO 4" NEW METER. THE GAS COMPANY WILL RE-PIPE EXISTING LINE, TAP THE MAIN, AND PROVIDE AND SET THE METER AT THE BUILDING. CONTACT: AQUILA (TOMMY JOHNSON 785-843-7842).
5. NEW PVC SANITARY SERVICE LINE. SERVICE LINE SIZE PER UTILITY PLAN. PER LOCAL FLUMBER. CONTACT: WATER/MASTER UTILITIES DEPT. (609 BROWER 785-632-7800).
6. UPGRADE EXISTING WATER METER TO 1" NEW 1/2" WATER SERVICE LINE FROM WATER TO BUILDING. TAP METER AND WATER INSTALLATION BY CITY. CONTACT: WATER/MASTER UTILITIES DEPT. (BOB SKINNER 785-632-7816).
7. NEW 3/4" WATER METER FOR IRRIGATION. NEW 3/4" WATER SERVICE LINE FROM WATER FOR IRRIGATION SYSTEM. TAP METER AND WATER INSTALLATION BY CITY. CONTACT: WATER/MASTER UTILITIES DEPT. (BOB SKINNER 785-632-7816).
8. DIRECTIONAL DISCHARGE WITH UNDERGROUND ELECTRICAL SERVICE. RE: SITE ELECTRICAL PLAN. SEE SHEET SC-4 FOR SCOPE OF WORK.
9. MENU BOARD AND SPEAKER SPOUT WITH UNDERGROUND ELECTRICAL SERVICE. RE: SITE ELECTRICAL PLAN. SEE SHEET SC-4 FOR SCOPE OF WORK.
10. SITE LIGHTS WITH UNDERGROUND ELECTRICAL SERVICE. RE: SITE ELECTRICAL PLAN.
11. NEW LOOP DETECTOR WITH UNDERGROUND ELECTRICAL SERVICE. RE: SITE ELECTRICAL PLAN.
12. CLEANOUT PER LOCAL CODE REQUIREMENTS. REF: WCH.
13. PREVIEW BOARD WITH UNDERGROUND ELECTRICAL SERVICE. RE: SITE ELECTRICAL PLAN. SEE SHEET SC-4 FOR SCOPE OF WORK.
14. MOVEMENT DETECTOR WITH UNDERGROUND ELECTRICAL SERVICE. RE: SITE ELECTRICAL PLAN. SEE SHEET SC-4 FOR SCOPE OF WORK.



MCQUIGGAGE VAN SICKLE & PERRY
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TEL. 361-30-0401 • FAX 361-30-5465

304095

[illegible]

CONTRACT DATE: 03/04/05
BUILDING TYPE: LA06-y04
PLAN VERSION: Jan05-G
SITE NUMBER: 286564
STORE NUMBER:

LJS / A&W

1503 W 23rd Street
LAWRENCE, KS

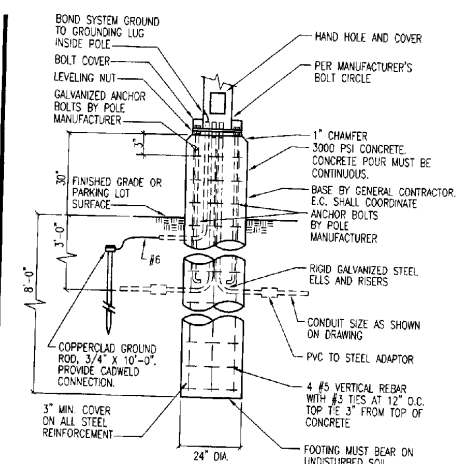


LA66-y04

UTILITY PLAN

C4

PLOT DATE: Jun 16, 2005



2 POLE BASE DETAIL
NO SCALE (30' MAX. POLE)

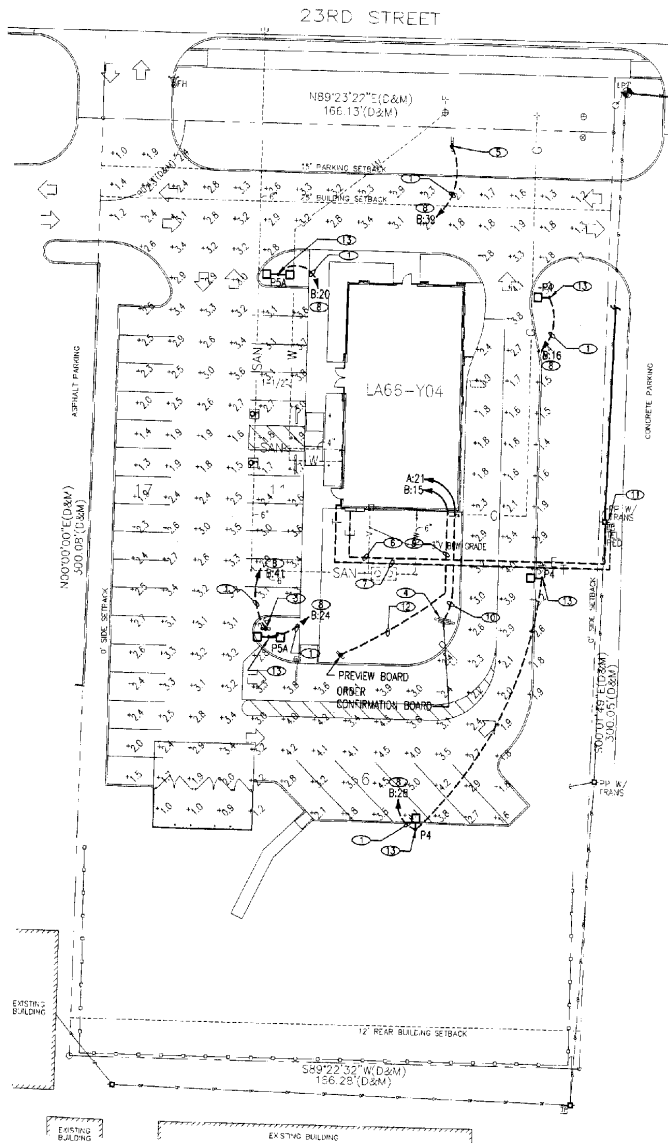
SITE ELECTRICAL NOTES

- 3/4" C - 2 #10, #10 GRD. (TYP. FOR ENTIRE CIRCUIT.)
- 3/4" C - 3 #10, #10 GRD. (TYP. FOR ENTIRE CIRCUIT.)
- DIRECTIONAL SIGN.
- MENU BOARD. SEE DRIVE-THRU DETAIL 16 SHEET E6.0.
- MONUMENT SIGN.
- UNDERGROUND ELECTRIC SERVICE TO UTILITY CO. POLE MOUNTED TRANSFORMERS. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO. SEE SINGLE LINE DIAGRAM DETAIL 2 SHEET E2.0 FOR SERVICE SIZE.
- UNDERGROUND TELEPHONE SERVICE REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO. SEE SINGLE LINE DIAGRAM DETAIL 2 SHEET E2.0 FOR SERVICE SIZE.
- CIRCUIT VIA LIGHTING CONTROL RELAY-EXT. SEE DETAIL B SHEET E6.0.
- (1) 1" CONDUIT FOR DATA AND (1) 3/4" CONDUIT FOR POWER FROM BUILDING TO MENUBOARD. SEE DRIVE-THRU COMMUNICATIONS ISOMETRIC DETAIL 16 SHEET E6.0.
- (2) 1" CONDUIT FOR DATA AND (1) 3/4" CONDUIT FOR POWER FROM BUILDING TO ORDER CONFIRMATION BOARD. SEE DRIVE-THRU COMMUNICATIONS ISOMETRIC DETAIL 16 SHEET E6.0.
- POLE MOUNTED TRANSFORMERS.
- (1) 1" CONDUIT FOR DATA AND (1) 3/4" CONDUIT FOR POWER FROM MENUBOARD TO PREVIEW BOARD. SEE DRIVE-THRU COMMUNICATIONS ISOMETRIC DETAIL 16 SHEET E6.0.
- SEE POLE BASE DETAIL THIS SHEET. EXISTING POLES AND BASES MAY BE USED AS LOCATION AND CONDITION PERMIT. VERIFY ALL EXISTING CONDITIONS AND PROVIDE NEW POLES AND BASE AS REQUIRED.

SITE LIGHTING LEVELS

MIN	0.9 F.C.
MAX	5.0 F.C.
AVE	2.7 F.C.
AVE/MIN	3.0 : 1
MAX/MIN	5.6 : 1

LIGHT FIXTURE SCHEDULE									
NO.	QUANTITY	LOCATION	MANUFACTURER / ITEM NUMBER	FIXTURE TYPE	PRIME SOURCE #	LAMPS	MOUNTING	VOLTAGE	WATTAGE
P1	1	PARKING LOT	HUBBELL / MSV-M00H-VB-1-A4	TYPE I	-	400W MH	POLE	208V	500
P1A	1	PARKING LOT	HUBBELL / MSV-M00H-VB-1-A4	TYPE I	-	400W MH	(2) FIXT. PER POLE	208V	1000
P3	1	PARKING LOT	HUBBELL / MSV-M00H-VB-1-A4	TYPE III	-	400W MH	POLE	208V	500
P3A	1	PARKING LOT	HUBBELL / MSV-M00H-VB-1-A4	TYPE III	-	400W MH	(2) FIXT. PER POLE	208V	1000
P4	3	PARKING LOT	HUBBELL / MSV-M00H-VB-1-A4	TYPE IV	14151	400W MH	POLE	208V	500
P4A	1	PARKING LOT	HUBBELL / MSV-M00H-VB-1-A4	TYPE IV	-	400W MH	(2) FIXT. PER POLE	208V	1000
P5	1	PARKING LOT	HUBBELL / MSV-M00H-VB-1-A4	TYPE V	-	400W MH	POLE	208V	500
P5A	2	PARKING LOT	HUBBELL / MSV-M00H-VB-1-A4	TYPE V	14152	400W MH	(2) FIXT. PER POLE	208V	1000



1 ELECTRICAL SITE PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"

REVISED ENTIRE SHEET

304095

6/18/06	CODE COMMENTS

CONTRACT DATE 03.04.05
BUILDING TYPE LA66-y04
PLAN VERSION: Jm05-03
SITE NUMBER 296694
STORE NUMBER

LJS / A&W

LA66-y04

SITE
ELECTRICAL
PLAN

E1.0