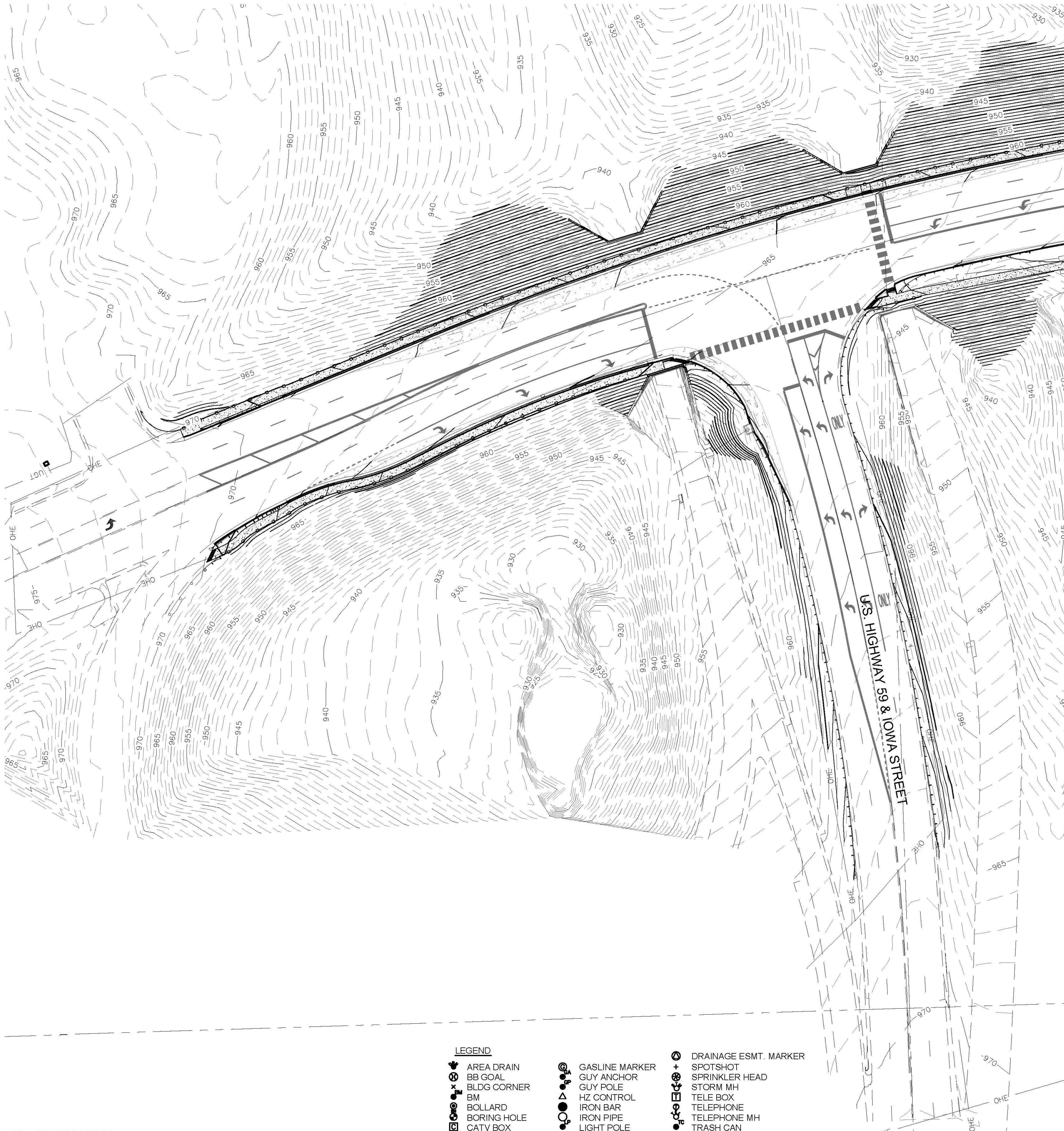
FILE NAME: Q:\20121119\CAD\Const Docs\Streets\121119C-002_GEN.dwg LAST SAVED BY: Randy Katzer SAVED DATE: 12/21/2012 2:36 PM PLOTTED: 12/21/2012 4:14 PM



SCALE: 1" = 40'

40 20 0 40 80

SUMMARY OF QUANTITIES

BASE BID:

GENERAL		
1. MOBILIZATION	L.S.	1
2. CONSTRUCTION STAKING	L.S.	1
3. SEED, MULCH, AND FERTILIZE	L.S.	1
4. TRAFFIC CONTROL	L.S.	1
DEMOLITION		
5. 2" MILL EXISTING ASPHALT PAVEMENT	S.Y.	6186
6. REMOVE CONCRETE SIDEWALK	S.Y.	416
7. REMOVAL OF STEEL PLATE GUARDRAIL	L.F.	1480
8. SAWCUT CONCRETE SIDEWALK	L.F.	11
9. SAWCUT CONCRETE CURB & GUTTER	L.F.	1354
10. REMOVE CONCRETE CURB & GUTTER	L.F.	1341
11. REMOVE 12" RCP STORM PIPE	L.F.	10
12. REMOVE 15" CMP STROM PIPE	L.F.	87
13. REMOVE STORM CURB INLET	EACH	2
14. REMOVE 15" STORM END SECTION	EACH	1
15. REMOVE TRAFFIC SIGNALIZATION BOX	EACH	5
16. REMOVE TRAFFIC SIGNALIZATION POLE	EACH	3
17. REMOVE AND RESET SIGN STRUCTURE	EACH	2
18. COORDINATE RELOCATION OF STREET LIGHT	L.S.	1
STREET IMPROVEMENTS		
19. COMPACTED FILL	C.Y.	2026
20. UNCLASSIFIED EXCAVATION	C.Y.	384
21. TREATMENT OF SUBGRADE (16% CLASS C FLYASH)	S.Y.	1081
22. 10" NRDJ CONCRETE PAVEMENT	S.Y.	586
23. 2" ASPHALT PAVEMENT OVERLAY	TONS	837
24. TYPE CG-1 CURB AND GUTTER WITH 12" TOE	L.F.	319
25. TYPE CG-1, DRY CURB AND GUTTER WITH 12" TOE	L.F.	161
26. TYPE CG-3 CURB AND GUTTER WITH 12" TOE	L.F.	39
27. CORRAL WALL W/HANDRAIL	L.F.	816
28. SIDEWALK HANDRAIL	L.F.	1072
29. 5'x4" CONCRETE SIDEWALK	S.Y.	124
30. 5.5'x4" CONCRETE SIDEWALK	S.Y.	672
31. ACCESS RAMPS WITH DETECTABLE STRIP	EACH	5
32. 5'x4' CURB INLET	EACH	1
33. GUARDRAIL END TERMINAL (SKT)	EACH	4
34. GUARDRAIL TERMINAL TYPE II	EACH	6
35. GUARDRAIL TERMINAL CONNECTOR	EACH	3
36. W-BEAM GUARDRAIL STEEL PLATE	L.F.	922
37. THRIE BEAM GUARDRAIL STEEL PLATE	L.F.	112.5
38. TRANSITION BEAM GUARDRAIL STEEL PLATE	L.F.	18.75
PAVEMENT MARKINGS		
39. R3-7 SIGN	EACH	1
40. W1-7 OVERSIZED TWO - DIRECTIONAL LARGE ARROW	EACH	1
41. OM2-2V OBJECT MARKER	EACH	2
42. OM3R OBJECT MARKER	EACH	2
43. 8" WHITE ONLY SYMBOL	EACH	2
44. 8" WHITE TURN ARROW	EACH	16
45. 3'x6' WHITE CROSSWALK STRIPE	EACH	31
46. 4" DOUBLE SOLID YELLOW CENTERLINE	L.F.	1034
47. 4" BROKEN WHITE LANE LINE (10' LINE & 30' SPACING)	L.F.	1180
48. 4" SINGLE DOTTED WHITE LINE EXTENSION (2' LINE & 2' SPACING)	L.F.	106
49. 4" SINGLE DOTTED YELLOW CENTERLINE (2' LINE & 2' SPACING)	L.F.	146
50. 6" DOTTED WHITE LINE (2' LINE & 2' SPACING)	L.F.	234
51. 6" SOLID WHITE CHANNELIZATION LINE	L.F.	932
52. 8" YELLOW DIAGONAL CROSS HATCH MARKING	L.F.	55
53. 8" SOLID WHITE CHEVRON	L.F.	106
54. 24" SOLID WHITE STOP BAR	L.F.	116

GENERAL NOTES

1. PLANS ARE INITIALLY APPROVED FOR A PERIOD OF ONE (1) YEAR, AFTER WHICH THEY AUTOMATICALLY BECOME VOID AND MUST BE UPDATED AND RE-APPROVED BY THE CITY BEFORE ANY CONSTRUCTION WILL BE PERMITTED.
2. THE CITY OF LAWRENCE PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF LAWRENCE DESIGN CRITERIA AND CITY CODE. THE CITY OF LAWRENCE IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF THE DESIGN. THE CITY OF LAWRENCE THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY OTHER THAN STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
3. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF LAWRENCE) AND ONE (1) COPY OF THE PROJECT SPECIFICATIONS ON SITE AT ALL TIMES.
4. CITY OF LAWRENCE TECHNICAL SPECIFICATIONS (LATEST EDITION) AND KDOT STANDARD SPECIFICATIONS (2009 EDITION) SHALL GOVERN CONSTRUCTION OF THIS PROJECT.
5. CONTRACTOR SHALL NOT BE ALLOWED TO WORK SUNDAYS. HOLIDAY OR SATURDAY WORK SHALL BE AS APPROVED BY PUBLIC WORKS.
6. CONTRACTOR MUST OBTAIN A "USE OF RIGHT-OF-WAY" PERMIT FROM THE CITY OF LAWRENCE PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL CALL 1-800-DIG-SAFE PRIOR TO ANY PROJECT EXCAVATION.
8. THE UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION, AND COORDINATE ANY NECESSARY RELOCATIONS. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE PROJECT.
9. ONLY AUTHORIZED EMPLOYEES OF THE CITY OF LAWRENCE, UTILITY DEPARTMENT SHALL OPERATE VALVES.
10. THE CONTRACTOR SHALL NOTIFY ALL LANDOWNERS IN WRITING AT LEAST ONE (1) WEEK PRIOR TO ANY CONSTRUCTION ACTIVITIES WHICH WOULD TAKE PLACE ADJACENT TO THEIR PROPERTY. INDIVIDUAL DETAILED NOTICES OF ACCESS RESTRICTIONS SHALL BE HAND DELIVERED FORTY EIGHT (48) HOURS PRIOR TO CONSTRUCTION. TWENTY FOUR (24) HOUR NOTICE SHALL BE GIVEN TO ANY WATER CUSTOMER PRIOR TO INTERRUPTION OF SERVICE TO MAKE CONNECTIONS.
11. WHERE EXISTING UTILITIES AND SERVICE LINES ARE TO BE ENCOUNTERED, THE OWNER THEREOF SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY WORK IN THE VICINITY.
12. UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE ADEQUATELY SUPPORTED BY THE CONTRACTOR TO PREVENT THE CONDUITS/LINES FROM SAGGING AND PUTTING STRESS ON ANY JOINTS.
13. THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY DURING CONSTRUCTION.
14. ALL SIGNING, BARRICADES, AND DRUMS UTILIZED IN TRAFFIC CONTROL SHALL BE PROVIDED, ERECTED, AND MAINTAINED BY THE CONTRACTOR. TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
15. ALL WATER REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE PURCHASED FROM THE CITY OF LAWRENCE UTILITIES DEPARTMENT THROUGH THE USE OF A FIRE HYDRANT WATER METER. METERS CAN BE OBTAINED FROM THE UTILITY DEPARTMENT FOR A NOMINAL DEPOSIT, REFUNDABLE UPON THE RETURN OF THE METER.
16. CONSTRUCTION STAKING IS TO BE PROVIDED BY THE CONTRACTOR. SURVEY STAKES, BENCHMARKS, AND PROPERTY PINS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
17. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE FERTILIZED, SEEDED, AND MULCHED BY THE CONTRACTOR IN ACCORDANCE WITH CURRENT CITY OF LAWRENCE TECHNICAL SPECIFICATIONS, LATEST EDITION.
18. ALL SURFACE FEATURES DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED BY THE CONTRACTOR TO ORIGINAL CONDITION.
19. EROSION CONTROL BLANKET (ECB) WILL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AT LOCATIONS SHOWN IN PLANS. THE ECB WILL CONSIST OF WHEAT STRAW WITH BIODEGRADABLE REINFORCEMENT WITH A MINIMUM DENSITY OF 0.50 POUNDS PER SQUARE YARD. SFB-2 BY CONTECH OR AN APPROVED EQUAL WILL BE REQUIRED.

PROJECT CONTROL:

BM #1: SQUARE CUT ON NORTHWEST CORNER OF CONCRETE ON AREA DRAIN 200 FEET ± WEST OF THE WEST CURB LINE OF WEST ENTRANCE TO GARBER AUTO ON NORTH SIDE OF 6TH STREET ELEVATION 984.71

BM #2: SQUARE CUT ON WEST RIM OF SANITARY MANHOLE 6 FEET EAST OF EAST EDGE OF ASPHALT ON IOWA STREET AND 210 FEET ± NORTH OF NORTH SIDE ENTRANCE OF "DAYS INN" ELEVATION 977.50

BM #3 SQUARE CUT ON THE CENTER FRON TFACE OF A CURB INLET ON THE SOUTH SIDE OF 6TH STREET, AND ON THE EAST SIDE OF "HIGH POINTE" APARTMENTS ENTRANCE ELEVATION 956.48

LEGEND

AREA DRAIN
BB GOAL
BLDG CORNER
BM
BOLLARD
BORING HOLE
CATV BOX
CLEANOUT
ELEC BOX
ELEC MH
FFE
FIRE HYD
FLAGPOLE
FLOWLINE
GAS METER
GAS REGULATOR
GASLINE MARKER
GUY ANCHOR
GUY POLE
HZ CONTROL
IRON BAR
IRON PIPE
LIGHT POLE
LIGHT TOWER
MAIL BOX
MANHOLE
PARKING METER
RR CROSS BUCK
SANITARY MH
SECTION COR
SIGN
SIGNAL BOX
DRAINAGE ESMT. MARKER
SPOTSHOT
SPRINKLER HEAD
STORM MH
TELE BOX
TELEPHONE
TELEPHONE MH
TRASH CAN
TRAVERSE PT
UTILITY POLE
WATER BLOWOFF
WATER FAUCET
WATER METER
WATER VALVE
BUSH
CONIFEROUS TREE
DECIDUOUS TREE

CATV	CABLE TELEVISION
UGP	UNDER GROUND PIPE
UGT	UNDER GROUND TELEPHONE
UGE	UNDER GROUND ELECTRIC
OHW	OVERHEAD WIRE
OHE	OVERHEAD ELECTRIC
GAS	GAS LINE
R/W	RIGHT-OF-WAY
PL	PROPERTY LINE
W	WATERLINE
STM	STORM SEWER LINE
SAN	SANITARY SEWER LINE
FM	FORCE MAIN LINE
—X—X—	FENCE LINE
	TREELINE

W 6th St & Iowa St
Geometric Improvements

Civil Engineering
Landscape Architecture
Community Planning
Surveying

Landplan Engineering, P.A.
Lawrence, KS • Kansas City, MO • Columbus, OH
The Woodlands, TX • Farmington Hills, MI

1310 Wakarusa Drive
Lawrence, Kansas 66049
tele (785)843-7530
fax (785)843-2410
email: info@landplan-pa.com
Web www.landplan-pa.com

©Landplan Engineering, P.A. 2012. This drawing is copyrighted by Landplan Engineering, P.A. This drawing may not be photographed, traced, or copied in any manner with out the written permission of Landplan Engineering, P.A.

6TH STREET AND IOWA STREET
GEOMETRIC IMPROVEMENTS, PW1135
GENERAL LAYOUT, NOTES AND SUMMARY OF QUANTITIES

REV	DATE	DESCRIPTION

CHRISTOPHER M. STORM LICENSED 17277 KANSAS PROFESSIONAL ENGINEER

CHRISTOPHER M. STORM, P.E.
17277

DATE:	07.16.12
PROJECT NO.:	20121119
DESIGNED BY:	CMS
DRAWN BY:	RK
CHECKED BY:	CMS

ISSUE A
SHEET NO. C002
OF 30 SHEETS

Q:\20121119\CAD\Const Docs\Streets\121119C-002_GEN.dwg, 12/21/2012 4:14:37 PM