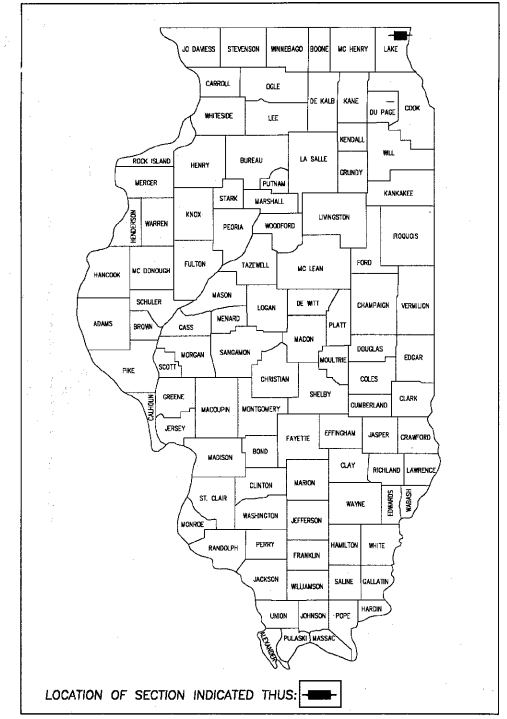


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

TRAFFIC SIGNAL MODERNIZATION AND FIBER OPTIC COMMUNICATION SYSTEM CONGESTION MITIGATION AND AIR QUALITY FAP 0541 (GRAND AVENUE) IL RTE 131 (GREEN BAY ROAD) TO SHERIDAN ROAD PROJECT NO: CMM-9003(073) SECTION 08-00279-00-TL LAKE COUNTY DIVISION OF TRANSPORTATION C-91-542-08



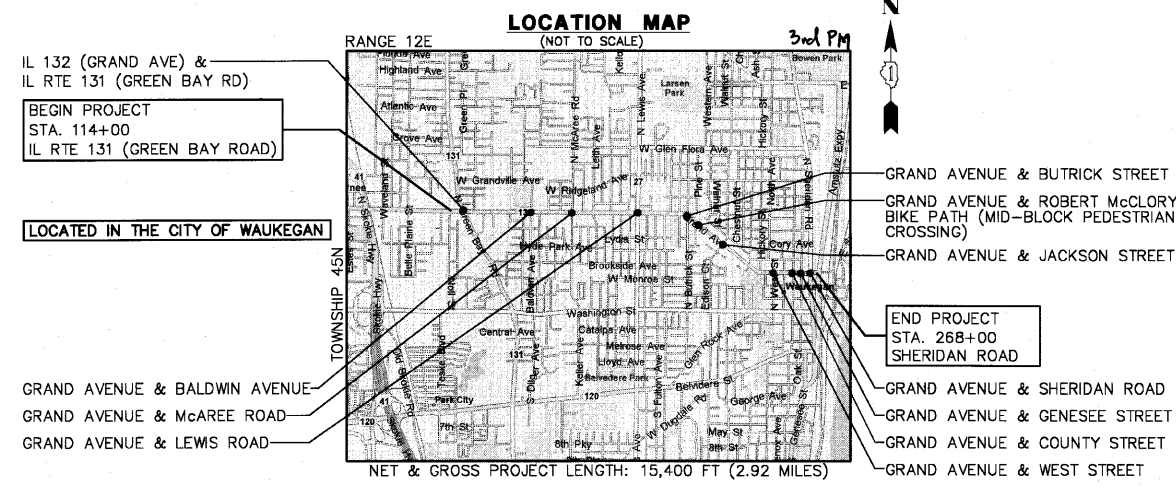
- INDEX OF SHEETS**
1. TITLE SHEET
 - 2.-3. SUMMARY OF QUANTITIES AND GENERAL NOTES
 - 4.-9. DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
 - 10.-11. TRAFFIC SIGNAL MODIFICATION PLAN
IL RTE 132 (GRAND AVENUE) AT IL RTE 131 (GREEN BAY ROAD)
 12. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
IL RTE 132 (GRAND AVENUE) AT IL RTE 131 (GREEN BAY ROAD)
 13. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
GRAND AVENUE AT BALDWIN AVENUE
 14. TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT BALDWIN AVENUE
 15. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT BALDWIN AVENUE
 16. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT BALDWIN AVENUE
 17. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
GRAND AVENUE AT McAREE ROAD
 18. TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT McAREE ROAD
 19. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT McAREE ROAD
 20. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT McAREE ROAD
 21. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
GRAND AVENUE AT LEWIS AVENUE
 22. TEMPORARY CABLE AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT LEWIS AVENUE
 23. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT LEWIS AVENUE
 24. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT LEWIS AVENUE
 25. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
GRAND AVENUE AT BUTRICK STREET
 26. TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT BUTRICK STREET
 27. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT BUTRICK STREET
 28. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT BUTRICK STREET
 29. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
GRAND AVENUE AT JACKSON STREET
 30. TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT JACKSON STREET
 31. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT JACKSON STREET
 32. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT JACKSON STREET
 33. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
GRAND AVENUE AT WEST STREET
 34. TEMPORARY CABLE AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT WEST STREET
 35. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT WEST AVENUE
 36. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT WEST STREET
 37. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
GRAND AVENUE AT COUNTY STREET
 38. TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT COUNTY STREET
 39. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT COUNTY STREET
 40. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT COUNTY STREET
 41. TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL EQUIPMENT
GRAND AVENUE AT GENESEE STREET
 42. TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT GENESEE STREET
 43. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT GENESEE STREET
 44. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT GENESEE STREET
 45. TRAFFIC SIGNAL MODERNIZATION PLAN
GRAND AVENUE AT SHERIDAN ROAD
 46. SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GRAND AVENUE AT SHERIDAN ROAD
 - 47.-52. INTERCONNECT PLANS
 - 53.-54. INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
GRAND AVENUE FROM IL RTE 131 (GREEN BAY RD) TO SHERIDAN ROAD
 55. MID-BLOCK PEDESTRIAN CROSSING
GRAND AVENUE AT ROBERT McCLORY BIKE PATH
 56. DISTRICT ONE LIGHTED STREET NAME SIGN
 57. LCDOT MAST ARM MOUNTED STREET NAME SIGNS
 58. FIBER SPLICING DIAGRAM 23 - GRAND AVENUE FROM IL ROUTE 131
(GREEN BAY ROAD) TO SHERIDAN ROAD
 59. CABINET DETAIL 35 - IL ROUTE 132 (GRAND AVENUE)/IL ROUTE 131
(GREEN BAY ROAD) TO SHERIDAN ROAD
 60. LCDOT STANDARD TRAFFIC SIGNAL DESIGN DETAILS
 61. LCDOT CURB RAMPS WITH TRAFFIC SIGNAL POSTS AND MAST ARMS
 - 62.-64. DISTRICT ONE DETAILS

CONTRACT NO. 63436

JULIE
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811

811
Know what's below.
Call before you dig.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING JULIE AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.



- DOT STANDARDS:**
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
 - 424001-05 CURB RAMPS FOR SIDEWALK
 - 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
 - 701001-02 OFF-ROAD OPERATIONS 2L, 2W, >1' AWAY
 - 701101-02 OFF-ROAD OPERATIONS, MULTILANE 15' TO 24' FROM PAVEMENT EDGE
 - 701006-03 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
 - 701011-02 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
 - 701301-03 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
 - 701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
 - 701502-03 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
 - 701602-04 URBAN LANE CLOSURE, MULTILANE 2W WITH BIDIRECTIONAL LEFT TURN LANE
 - 701606-06 URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
 - 701701-08 URBAN LANE CLOSURE MULTILANE INTERSECTION
 - 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
 - 701901-01 TRAFFIC CONTROL DEVICES
 - 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
 - 814001-02 HANDHOLE
 - 814006-02 DOUBLE HANDHOLE
 - 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
 - 862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)
 - 873001-02 TRAFFIC SIGNAL GROUNDING AND BONDING
 - 877001-04 STEEL MAST ARM ASSEMBLY AND POLE, 16" THROUGH 55"
 - 877011-04 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16" THROUGH 55"
 - 878001-08 CONCRETE FOUNDATION DETAILS
 - 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
 - 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
 - 888001-01 DETECTOR LOOP INSTALLATIONS
 - 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

TRAFFIC DATE:

DESIGN SPEED:

POSTED SPEED:

ADT:

FUNCTIONAL CLASSIFICATION: ARTERIAL

WEST OF LEWIS AVE = 40 MPH
EAST OF LEWIS AVE = 35 MPH
WEST OF LEWIS AVE = 35 MPH
EAST OF LEWIS AVE = 30 MPH
BETWEEN IL RTE 131 (GREEN BAY RD) AND LEWIS AVE = 22,624
BETWEEN LEWIS AVE AND JACKSON ST = 21,479
BETWEEN JACKSON ST AND SHERIDAN RD = 10,853

NOTE: SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

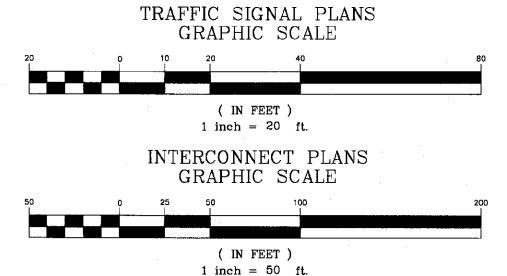


SIGNED: *Bruce L. Shrake*
BRUCE L. SHRAKE

DATE: 7/12/2010

EXPIRES: 11/30/11

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE BELOW SCALES MAY BE USED.



850 Forest Edge Drive • Vernon Hills, IL 60061
Consulting Engineers & Surveyors
847-478-9700
FAX: 847-478-9701

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: *July 12, 2010*
M. Andrew Buehler
LAKE COUNTY DIVISION OF TRANSPORTATION
DIRECTOR OF TRANSPORTATION/COUNTY ENGINEER

PASSED: *July 13, 2010*
C. H. O'Keefe
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW
July 15, 2010
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GHA #4136.800

FILE NAME = 4136.800-TR2.dwg	USER NAME = GHA	DESIGNED - JRD	REVISED -		Lake County Division of Transportation	TITLE SHEET			FAP RTE = 541	SECTION = 08-00279-00-TL	COUNTY = LAKE	TOTAL SHEETS = 64	SHEET NO. = 1	
	PLOT SCALE = 1" = .0833'	DRAWN - ZCW	REVISED -			SCALE = NONE	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT # = 63436		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 3/10/10	CHECKED - DPB	REVISED -											
		DATE = 3/10/10	REVISED -											

PROGRAM AND OFFICE ENGINEER: CHARLES E. BIDDLE, P.E. CAT-705-4406 SCHUMBURG, IL