

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4081	06-00005-00-BR	McHENRY	45	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 63409	

**INDEX OF SHEETS**

- 1 COVER SHEET
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**FEDERAL AID HIGHWAY**  
**FAU ROUTE 4081 (THOMPSON ROAD)**  
**BRIDGE REPLACEMENT OVER NIPPERSINK CREEK**  
**SECTION 06-00005-00-BR**  
**PROJECT NO: BRM-8003-(722)**  
**STRUCTURE NO: 056-6006**  
**McHENRY COUNTY**  
**JOB NO: C-91-075-07**

**STRUCTURE INFORMATION:**

EXISTING SN 056-3096  
 EXISTING 3-SPAN STRUCTURE CONSISTS OF PRECAST, PRESTRESSED CONCRETE DECK BEAMS WITH AN OUT-TO-OUT WIDTH OF 26'-0" AND A TOTAL LENGTH OF 133'-9" BK. TO BK. ABUTMENTS WITH A 15 DEGREE SKEW. THE SUBSTRUCTURE CONSISTS OF METAL SHELL PILE BENT PIERS AND ABUTMENTS. STRUCTURE TO BE REMOVED AS SHOWN WITH NO SALVAGE

PROPOSED SN 056-6006:  
 PROPOSED 3-SPAN STRUCTURE CONSISTS OF A CAST IN PLACE CONCRETE DECK ON STEEL WIDE FLANGE BEAMS WITH AN OUT-TO-OUT WIDTH OF 43'-0" AND A TOTAL LENGTH OF 148'-8" BK. TO BK. ABUTMENTS WITH A 20 DEGREE SKEW. THE SUBSTRUCTURE CONSISTS OF INTEGRAL ABUTMENTS AND CONCRETE ENCASED METAL SHELL PILE BENT PIERS.

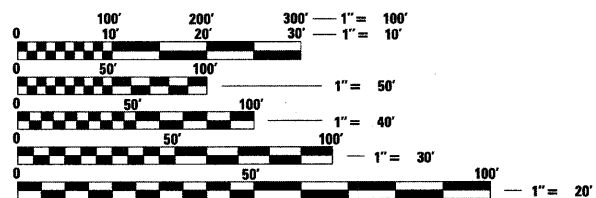
**TRAFFIC DATA**

ADT:  
 THOMPSON ROAD 4,400 VPD (2005) 10,000 VPD (2030)

**POSTED SPEED DESIGN SPEED**  
 35 MPH (EXISTING) 40 MPH (PROPOSED)  
 35 MPH (PROPOSED)

**DESIGN DESIGNATION**

FUNCTIONAL CLASSIFICATION - COLLECTOR (URBAN)



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 ABOVE SCALES MAY BE USED.

**J.U.L.I.E.**

**JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION**  
 CALL 811



Know what's below.  
 Call before you dig.



**SEC Group, Inc.**

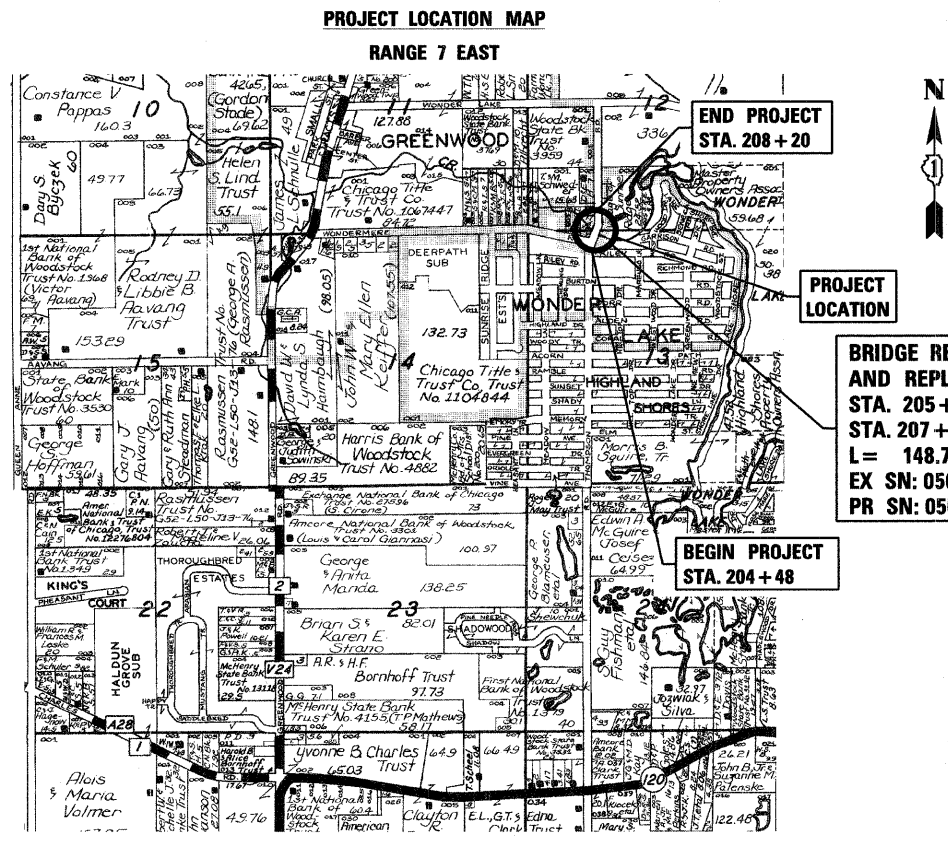
Engineering  
 Surveying  
 Planning  
 Landscape Architecture

McHenry • Yorkville • New Lenox • Chicago  
 www.secgroupinc.com

**PROJECT ENGINEER: KEVIN M. ARFT, P.E.**  
**PROJECT MANAGER: ROBERT G. DAVIES, S.E., P.E.**

**CONTRACT NO. 63409**

PROJECT IS LOCATED IN THE VILLAGE OF WONDER LAKE

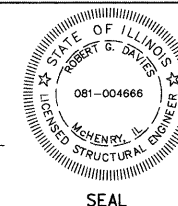


**BRIDGE REMOVAL AND REPLACEMENT**  
 STA. 205 + 56.15 TO STA. 207 + 04.78  
 L = 148.7 FT  
 EX SN: 056-3096  
 PR SN: 056-6006

**PROJECT LENGTH**  
 NET LENGTH OF PROJECT (THOMPSON ROAD) = 223 FT (0.042 MI)  
 BRIDGE OMISSION (OR STRUCTURE LENGTH) (056-6006) = 148.7 FT  
 GROSS LENGTH OF PROJECT = 372 FT (0.071 MI)

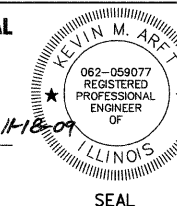
**STRUCTURAL ENGINEER'S SIGN & SEAL**

*Robert G. Davies*  
 ROBERT G. DAVIES, S.E., P.E.  
 EXPIRES: 11-30-2010



**PROFESSIONAL ENGINEER'S SIGN & SEAL**

*Kevin M. Arft*  
 KEVIN M. ARFT, P.E.  
 EXPIRES: 11-30-2011



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

APPROVED 11/20/09  
*[Signature]*  
 DIRECTOR OF PUBLIC WORKS  
 VILLAGE OF WONDER LAKE

PASSED DECEMBER 3 2009  
*[Signature]*  
 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW DECEMBER 4, 2009  
*[Signature]*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

COMPANY NAME: Smith  
 PROJECT CONTACT: Robert G. Davies  
 CLIENT: Village of Wonder Lake  
 DATE PLOTTED: 11/18/2009 5:02:15 PM  
 FILE NAME: 060563-C14-091  
 PLOT DRIVER: pdt.plt  
 PEN TABLE: STANDARD-TRANS.TBL

ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH (847) 705-4169