

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00999-69-TL	LAKE	5	1
		ILLINOIS	CONTRACT NO. 61G49	

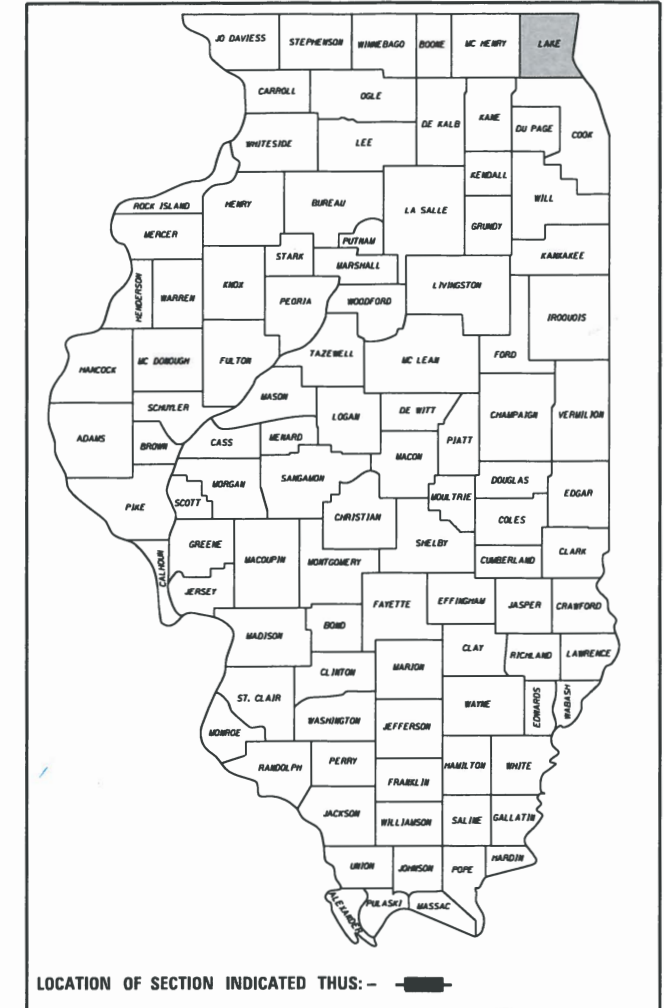
06-12-2020 LETTING ITEM 006

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

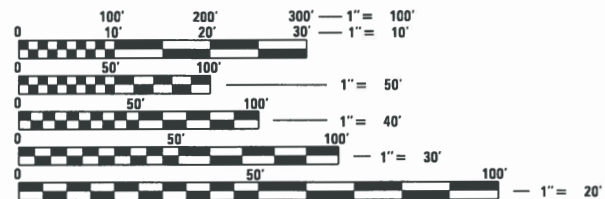
**PROPOSED  
HIGHWAY PLANS**

VARIOUS LOCATIONS  
SECTION 19-00999-69-TL  
PROJECT EEW(998)  
SNOW PROOF TRAFFIC SIGNAL HEAD RETROFIT  
LAKE COUNTY

C-91-149-20



FOR LOCATION MAP  
SEE SHEET 3

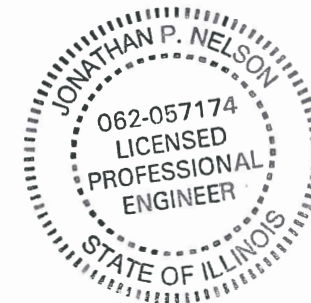


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER  
PROJECT MANAGER

CONTRACT NO. 61G49



Plans Prepared By: Lake County  
Division of Transportation

Signature: *[Signature]*  
Date: 2/18/2020

Illinois License No: 062-057174  
Expiration Date: 11/30/2021  
Field: CIVIL

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Approved: 2/18/20 *[Signature]*  
LAKE COUNTY, COUNTY ENGINEER

Passed: 3-11-2020 *[Signature]*  
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

Releasing for Bid  
Based on Limited Review: MARCH 13, 2020 *[Signature]*  
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS & SUMMARY OF QUANTITIES
- 3 LOCATION MAP
- 4 SCHEDULE OF QUANTITIES
- 5 LCDOT DETAILS

**HIGHWAY STANDARDS**

N/A NO APPLICABLE IDOT HIGHWAY STANDARDS

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	1.0
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	177.0
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0
* X8809005	LED SIGNAL FACE, LENS COVER	EACH	1,419.0

\* DENOTES SPECIAL PROVISION

MODEL: Default  
FILE NAME: U:\DOT\Traffic\2019 Heated LED-SignProof.cone Revofit\CAD\SHI\_Index 500.dgn



USER NAME = HD24330	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 2/17/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS  
& SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00999-69-TL	LAKE	5	2
CONTRACT NO. 61G49				
ILLINOIS FED. AID PROJECT				

# LOCATION MAP



○ PROJECT LOCATION (LCDOT OWNED SIGNAL)  
SEE SHEET 4 FOR INTERSECTION LIST

MODEL: Default  
FILE NAME: USDOTTraffic\2019 Heated LED-SignProof cone Retrofit\CAD\SHT\_Location Map.dgn



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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 2/17/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00999-69-TL	LAKE	5	3
CONTRACT NO. 61G49				
ILLINOIS FED. AID PROJECT				

## INTERSECTION LIST / SCHEDULE OF LED SIGNAL FACE, LENS COVER

LOCATION	Quantity (EACH)
Alleghany Rd & Peterson Rd	10
Almond Rd & Gages Lake Rd	8
Almond Rd & Julie Ln/Warren HS	8
Almond Rd & Washington St	8
Aptakisic Rd & Barclay Blvd	8
Aptakisic Rd & Bond St	6
Aptakisic Rd & Brandywine Ln	8
Aptakisic Rd & Buffalo Grove Rd	8
Aptakisic Rd & Leider Ln/Schelster Rd	8
Aptakisic Rd & Parkway Dr	8
Aptakisic Rd & Prairie Rd	6
Aptakisic Rd & Weiland Rd	6
Arlington Heights Rd & Checker Dr	8
Big Hollow Rd & Frontage Rd	8
Bonner Rd & Darrell Rd	6
Bonner Rd & Fairfield Rd	6
Bonner Rd & Old Rand Rd	8
Buffalo Grove Rd & Deerfield Pkwy	8
Buffalo Grove Rd & Old Checker Rd	8
Buffalo Grove Rd & Port Clinton Rd	6
Buffalo Grove Rd & Thompson Rd	8
Butterfield Rd & Allanson Rd	12
Butterfield Rd & Crane Blvd	8
Butterfield Rd & Golf Rd	8
Butterfield Rd & Hawthorn Pkwy	8
Butterfield Rd & Huntington Dr	8
Butterfield Rd & Virginia Ave/St William Dr	8
Butterfield Rd & Winchester Rd	8
Cedar Lake Rd & Amarias Dr	6
Cedar Lake Rd & Clarendon Rd	10
Cedar Lake Rd & Hart Rd	6
Cedar Lake Rd & Rollins Rd	8
Cedar Lake Rd & Rosedale Rd	8
Cedar Lake Rd & Washington St	13
Center St & Atkinson Rd	8
Cuba Rd & Ela Rd	8
Darrell Rd & Roberts Rd	8
Deep Lake Rd & Grass Lake Rd	8
Deerfield Pkwy & Buffalo Grove Fire Station	6
Deerfield Pkwy & Busch Pkwy	7
Deerfield Pkwy & Commerce Ct	8
Deerfield Pkwy & Highland Grove Dr	8
Deerfield Pkwy & Weiland Rd	8
Deerfield Pkwy & Woodmans	14
Deerfield Rd & Carlisle Ave-Heather Rd	11
Deerfield Rd & Deerfield Square	8
Deerfield Rd & Jewel Entrance	8
Deerfield Rd & Kenton Rd-Kipling Pl	10
Deerfield Rd & Castlewood Ln	8
Deerfield Rd & Parkway North	8

LOCATION	Quantity (EACH)
Deerfield Rd & Portwine Rd	8
Deerfield Rd & Richfield Rd	10
Deerfield Rd & Ridge Rd	10
Deerfield Rd & Robert York Ave	9
Deerfield Rd & Rosemary Ter	10
Deerfield Rd & Saunders Rd/Riverwoods Rd	8
Deerfield Rd & Wilmot Rd	8
Delany Rd & Continental Dr	8
Delany Rd & Gent Dr	8
Delany Rd & Grove Ave	8
Delany Rd & Porett Dr	6
Delany Rd & Ryan Rd	8
Delany Rd & St Paul Ave	8
Delany Rd & Sunset Ave	6
Delany Rd & Wadsworth Rd	8
Delany Rd & York House Rd	8
Diamond Lake Rd & Gilmer Rd	6
Dilley's Rd & Pinewood Rd/Nations Dr	10
Dilley's Rd & Stearns School Rd	8
Fairfield Rd & Gossett Rd	6
Fairfield Rd & Lake Shore Dr	8
Fairfield Rd & Nippersink Rd	8
Fairfield Rd & Old McHenry Rd	8
Fairfield Rd & Rollins Rd	8
Fremont Center Rd & Fremont Schools	8
Fremont Center Rd & Gilmer Rd	6
Gages Lake Rd & Hunt Club Rd	8
Gages Lake Rd & Mill Rd	8
Gilmer Rd & Ellis Dr	6
Gilmer Rd & Hawley St	8
Gilmer Rd & Liberty Lakes Blvd	8
Gilmer Rd & Schwerman Rd	5
Golf Rd & Jackson St	6
Golf Rd & Yeoman St	8
Grass Lake Rd & Beck Rd (South)	8
Grass Lake Rd & Eagle Way (Lakes High School)	8
Grass Lake Rd & State Park Rd	6
Greenleaf St & Washington St	8
Hainesville Rd & Rollins Rd	12
Hainesville Rd & Shorewood Dr	8
Hainesville Rd & Washington St	8
Hart Rd & Barrington H.S	6
Hawley St & California Ave	12
Hawley St & Chevy Chase Rd	8
Hawley St & Seymour St	10
Hunt Club Rd & Dada Dr	9
Hunt Club Rd & Grand Hunt Dr	14
Hunt Club Rd & Orchard Valley Dr	8
Hunt Club Rd & Stearns School Rd	8
Hunt Club Rd & Washington St	9

LOCATION	Quantity (EACH)
Hunt Club Rd & Westbrook Ln (Wal-Mart)	8
Hutchins Rd & Stearns School Rd	6
I-94 & Deerfield Rd OFF RAMP	8
I-94 & Deerfield Rd ON RAMP	4
Kelsey Rd & River Rd	8
Lewis Ave & 10th St	8
Lewis Ave & 14th St	8
Lewis Ave & 21st St	8
Lewis Ave & 27th St	10
Lewis Ave & 29th St	10
Lewis Ave & 33rd St	10
Lewis Ave & 9th St	8
Lewis Ave & Argonne Dr	8
Lewis Ave & Ballentine St	6
Lewis Ave & Beach Rd	8
Lewis Ave & Dugdale Rd	10
Lewis Ave & Lyons Bike Path	4
Lewis Ave & MLK Jr. Dr	8
Lewis Ave & Sunset Ave/Golf Rd	8
Lewis Ave & Wadsworth Rd	8
Lewis Ave & York House Rd	8
Long Grove Rd & Quentin Rd	8
Midlothian Rd & Mundelein Park District (Keith Miene)	6
Midlothian Rd & Old McHenry Rd	8
Midlothian Rd & Peterson Rd	14
Midlothian Rd & Winchester Rd	8
MLK Jr. Dr & Abbott Dr	6
MLK Jr. Dr & Commonwealth Ave	8
Old McHenry Rd & Abbey Glenn Dr	8
Old McHenry Rd & Quentin Rd	8
O'Plaine Rd & Brookhaven Rd	8
O'Plaine Rd & McGaw Rd	6
O'Plaine Rd & Washington St	12
Peterson Rd & Behm Ln	6
Quentin Rd & E Cuba Rd	8
Quentin Rd & Ensell Rd	8
Quentin Rd & Rue Royale (Field Pkwy)	8
Quentin Rd & W Cuba Rd	8
Quentin Rd & White Pine Rd	13
Riverwoods Rd & Yorkshire Rd	6
Rollins Rd & Civic Center Way (fmr Mallard Creek Dr)	8
Rollins Rd & Clarendon Dr/East End Rd	8
Rollins Rd & Drury Ln	6
Rollins Rd & Grand Ave	8
Rollins Rd & Hook Dr	6
Rollins Rd & Lotus Dr	8
Rollins Rd & Nicole Ln	8
Rollins Rd & Orchard Ln	6
Rollins Rd & Plaza Dr	12
Rollins Rd & Washington Ave	8

LOCATION	Quantity (EACH)
Rollins Rd & Wilson Rd	8
Russell Rd & Trumpet Dr	6
Sand Lake Rd & Beck Rd	6
Saunders Rd & Baxter Pkwy	8
Saunders Rd & Discover Way	14
Saunders Rd & Parkway North	6
St. Mary's Rd & Atkinson Rd	8
St. Mary's Rd & Oak Spring Rd	6
St. Mary's Rd & Old Rockland Rd	8
Stearns School Rd & North Creek Dr	6
Sunset Ave & McAree Rd	8
Sunset Ave & Northwestern Ave	8
Wadsworth Rd & Cambridge Blvd	6
Washington St & Atkinson Rd	8
Washington St & Cemetery Rd	8
Washington St & Lake St	8
Washington St & Lancer Ln (CLC)	12
Washington St & Mainsail Dr	8
Washington St & Six Flags Dr	6
Washington St & Teske Blvd	6
Washington St & Tri-State Pkwy	9
Washington St & White Oak Ln	8
Weiland Rd & Aptakisic Tripp School	6
Weiland Rd & Pauline Ave	8
Wilson Rd & Nippersink Rd	8
Winchester Rd & Technology Way	8
York House Rd & McAree Rd	8

\* 4 existing heads have been retrofitted at Midlothian/Peterson

**PROJECT NOTE:**

INSTALLATION OF SNOW-RESISTANT 12" SIGNAL HEAD LENS COVER SHALL BE FOR OVERHEAD RED INDICATIONS ON MAST ARM MOUNTED SIGNAL HEADS AND RED INDICATIONS ON BRACKET MOUNTED SIGNAL HEADS IF THE MAST ARM ISN'T PRESENT.

CONTACT THE LAKE COUNTY DIVISION OF TRANSPORTATION TRAFFIC ENGINEER FOR EXACT LOCATIONS.

MODEL: Default  
FILE NAME: U:\DOT\Traffic\2019 Heated LED-SnowProof cone Ret-of-t\CAD\SHT\_Sched\_Dyudgr



USER NAME = HD24330	DESIGNED -	REVISED -
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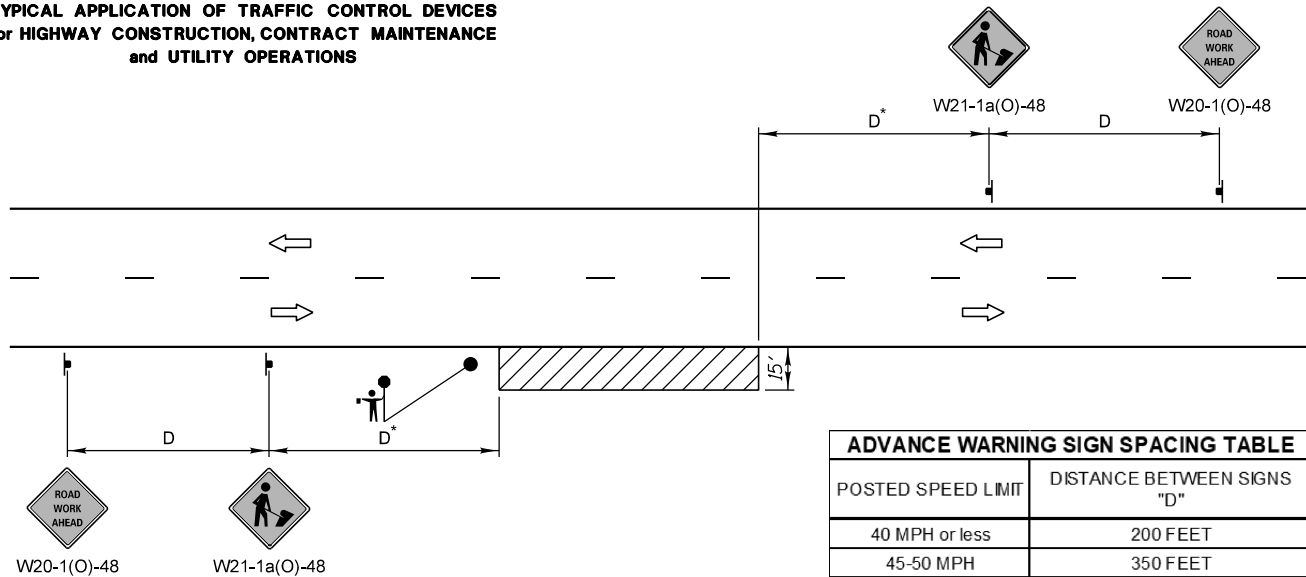
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET OF SHEETS		STA. TO STA.	

**SCHEDULE OF QUANTITIES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00999-69-TL	LAKE	5	4
CONTRACT NO. 61G49				
ILLINOIS FED. AID PROJECT				

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES  
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE  
and UTILITY OPERATIONS**



POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

**GENERAL NOTES:**

This special detail is used at any time, any vehicle, equipment, workers or their activities require a stationary, intermittent or continuous moving operation within 15 feet of the traffic lane, where the average speed is 1 mph or less.

\* Minimum distance "D" is shown in the Advance Warning Sign Spacing Table. If the work is a moving operation, the maximum distance "D" may be extended to 1/2 the length required for one normal working day's operation or 4 miles, whichever is less.

If the work operation does not exceed 60 minutes, traffic control may be according to I.D.O.T. Highway Standard 701301.

**SYMBOLS**

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN WHEN REQUIRED

**MODIFIED IDOT STANDARD 701011-04**

REVISIONS	DATE	APPROVED BY: A. KHAWAJA DATE: APRIL 1, 2007
Title Block Revision	8/1/09	
Reformat LCDOT Standard	7/15/10	
Updated IDOT Standard Version #	3/29/16	

**TWO LANE, TWO WAY,  
OFF-ROAD OPERATIONS  
DAY OPERATIONS ONLY**

LC7000

NOT TO SCALE

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES  
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE  
and UTILITY OPERATIONS**



**GENERAL NOTE:**

This Standard is used where at anytime, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

**DESIGN NOTE:**

- All warning signs shall have minimum dimensions of 48"x48". The Engineer may approve signs measuring 36"x36" when the posted speed limit is 30 mph or less.
- All signs not on the traveled way shall be post mounted if the closure time exceeds four calendar days. All signs shall be posted with the bottom of the sign not less than 7" above the edge of pavement. "NO PARKING" signs shall be installed throughout the work area at the discretion of the Engineer.
- The distance "L" shall be defined as:
 

SPEED	FORMULA
≤ 40 MPH	L = (W <sup>2</sup> ) / 100
≥ 45 MPH	L = LW x S

W = Width of Closure in FEET  
S = Normal Posted Speed Limit in MPH  
LW = Lane Width in FEET
- Type II barricades with Type C steady burning lights shall be used in lieu of cones for night operations. All cones and barricades shall be according to IDOT Standard 701901.
- For raised median operations, where the raised median is less than 10' signing shall not be installed on the median. No signing shall be installed on any painted median.
- If the work operation is performed between 9:00 am and 3:00 pm and the work does not exceed 15 minutes, the traffic protection shall be as shown for IDOT Standard 701301. Signs, when required, shall be at the spacing specified in the advance warning sign spacing table.
- If the work area is in the parking lane and the parking exists during work hours, a "ROAD WORK AHEAD" sign shall be installed in advance of work area at the spacing specified in the Advance Warning Sign Spacing Table and the area protected with cones or barricades.
- Type A flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two sign in each series and the high level warning devices.
- Longitudinal dimensions may be adjusted to fit field conditions.
- Form BT 725 is required.

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS		
	"A"	"B"	"C"
40 MPH or less	400 FEET	200 FEET	200 FEET
45-50 MPH	400 FEET	350 FEET	350 FEET
55 MPH	500 FEET	500 FEET	500 FEET

**SYMBOLS**

- WORK AREA
- CONE, BARRICADE, OR DRUM
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- TYPE II BARRICADE W/TYPE A FLASHING LIGHT
- HIGH LEVEL WARNING DEVICE \*\*
- FLAGGER WITH TRAFFIC CONTROL SIGN

**MODIFIED IDOT  
STANDARD 701701-10**

REVISIONS	DATE	APPROVED BY: ANTHONY KHAWAJA DATE: APRIL 1, 2007
Revised IDOT Reference	2/1/08	
Title Block Revision	8/1/09	
Reformat LCDOT Standard	7/15/10	
Removed "Worker" & "Flagger" signs	6/26/12	
Updated IDOT Standard Version #	3/29/16	

**URBAN LANE CLOSURE  
MULTILANE INTERSECTION**

LC7003

MODEL: Default  
FILE NAME: U:\DOT\Traffic\2019 Heated LED-SignProof cone Rev-of-1\CAD\SHI\_LC DOT Standards.dgn



USER NAME = HD24330	DESIGNED -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LC DOT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00999-69-TL	LAKE	5	5
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ILLINOIS FED. AID PROJECT				