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INDEX OF SHEETS COVER SHEET, INDEX OF SHEETS, LIST OF STATE STANDARDS

GENERAL NOTES & SUMMARY OF QUANTITIES

TYPICAL SECTIONS

ROADWAY PLAN - MILLER ROAD 8-12 ROADWAY PLAN - FRANK ROAD ROADWAY PLAN - OAK STREET 13-14 15 STRUCTURAL PLAN - OAK STREET

DETOUR PLAN - OAK STREET 17-21 CONSTRUCTION DETAILS

STANDARDS

424001-05 CURB RAMPS FOR SIDEWALKS

442201-03 CLASS C AND D PATCHES

606201-02 TYPE B GUTTER (INLET, OUTLET & ENTRANCES)

701311-03 LANE CLOSURE 2L, 2W, MOVING OPERATIONS-DAY ONLY

701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

701901-01 TRAFFIC CONTROL DEVICES

780001-02 TYPICAL PAVEMENT MARKINGS

701801-04 LANE CLOSURE MULTI LANE IW OR ZW CROSS WALK OR SIDEWALK CLOSURE

TRAFFIC DATA

POSTED SPEED

ROAD CLASSIFICATION

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. McHenry • Yorkville • New Lenox • Chicago

PROJECT MANAGER: DAVID M. VAN CAMP

CLIENT MANAGER: DAVID M. VAN CAMP

CONTRACT NO. 63164

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

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

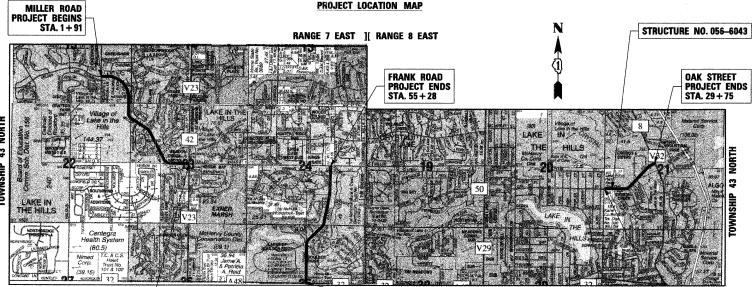
FAU 94039 (MILLER ROAD) HALIGUS ROAD TO LAKEWOOD ROAD

FAU 93867 (FRANK ROAD) ALGONQUIN ROAD TO MILLER ROAD

FAU 94040 (OAK STREET) **BURR STREET TO PYOTT ROAD** RESURFACING

SECTION NO.: 08-00032-00-RS PROJECT NO.: M-9003(214) VILLAGE OF LAKE IN THE HILLS MCHENRY COUNTY C-91-267-09

PROJECT LOCATION MAP



PROJECT ENDS STA. 62 + 83

FRANK ROAD PROJECT BEGINS PROJECT LOCATION MAP

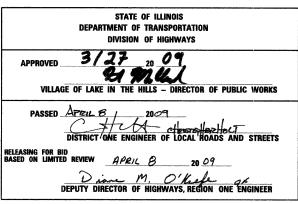
N.T.S. PROJECT LENGTH

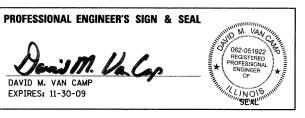
NET LENGTH OF PROJECT (MILLER ROAD) = 6,092 FT (1.154 MI)
NET LENGTH OF PROJECT (FRANK ROAD) = 5,428 FT (1.028 MI)
NET LENGTH OF PROJECT (OAK STREET) = 2,865 FT (0.543 MI)

GROSS LENGTH OF PROJECT = 14,385 FT (2.724 MI)

08-00032-00-RS MCHENRY ILLINOIS CONTRACT NO. 63164







OAK STREET

PROJECT BEGINS STA. 1 + 10

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

- 1 THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED. (TYPE I OR TYPE II (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
- 2 FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.
- 3 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LAKE IN THE HILLS.
- 4 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE.
- 5 PROPOSED PAVEMENT SHALL MATCH EXISTING PAVEMENT ACCORDING TO THE TRANSITION DETAILS SHOWN IN THE CONSTRUCTION DETAILS.
- 6 THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT MIX ASPHALT LIFTS.
- 7 THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF O.O8 GAL/SQ-YD BEFORE BINDER AND SURFACE COURSE PLACEMENT.
- 8 PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES, IF APPLICABLE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- 9 SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER. THE COST OF SAW CUTTING WILL BE INCLUDED IN THE COST OF ITEMS BEING REMOVED.
- 10 QUANTITIES FOR PATCHING SHALL NOT EXCEED THOSE PROVIDED IN THE SUMMARY OF QUANTITIES UNLESS APPROVED BY THE ENGINEER. THE ENGINEER WILL IDENTIFY FINAL PATCH LOCATIONS IN THE FIELD.
- 11 PAVEMENT PATCHING SHALL BE COMPLETED AFTER HOT-MIX ASPHALT SURFACE REMOVAL. ALL PATCHING SHALL BE FULL DEPTH AND CONSTRUCTED UP TO THE ELEVATION OF THE SURFACE AFTER REMOVAL.
- 12 THE CONTRACTOR SHALL MAKE EFFORT TO MINIMIZE DISTURBANCES TO THE EXISTING PARKWAY. ANY DISTURBANCE CAUSED SHALL BE REPAIRED IN KIND AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED

	BOXED	ITEMS	INTICATE	WORK	THAT	IS	INCIDENTAL	то	
	THE CO	NITRAC	Т						

SUMMARY OF QUANITIES

					ROADWAY 80% FEDERAL 20% STATE 1000-2A	ROADWAY 80% FEDERAL 20% STATE 1000-2A
PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	MILLER RD.	FRANK RD.	OAK ST.
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4,095	2,040	1,335	720
40600300	AGGREGATE (PRIME COAT)	TON	103	51	34	18
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	1,779	730	655	394
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQYD	1,147	385	417	345
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	5,320	2,910	1,885	1,025
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,349	1,588	573	188
42400800	DETECTABLE WARNINGS	SQ FT	578	382	154	42
44000159	HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2"	SQYD	8,974	0	0	8,974
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	9,716	8,326	1,390	0
44000600	SIDEWALK REMOVAL	SQ FT	3,035	2,035	705	295
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	366	0	0	366
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,352	0	114	1,238
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	2,555	1,273	832	450
48101200	AGGREGATE SHOULDERS, TYPE B	TON	300	0	300	0
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1,095	0	0	1,095
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	0	3	0
60602800	CONCRETE GUTTER, TYPE B	FOOT	120	0	120	0
67100100	MOBILIZATION	L SUM	1	0	0	0
70101700	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1	0	0	0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,445	610	545	290
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	475	292	110	73
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	32,440	11,169	16,487	4,784
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,156	1,738	304	114
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	633	396	237	0
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	63	36	0	27
* 78100100	RAISED RETLECTIVE PAVEMENT MARKERS	EACH	402	178	147	77
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	300	100	100	100
X0301424	SILICONE JOINT SEALER	FOOT	118	0	0	118
X0320887	POLYMER: CONCRETE	CUFT	21.8	0.0	0.0	21.8
X0325806	WATERPROOFING MEMBRANE SYSTEM	SQ FT	3,294	0	0	3,294
XX005369	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	LSUM	1	0	0	1
Z0076600	TRAINEES	HOUR	500	170	165	165

^{*} DENOTES SPECIALTY ITEM

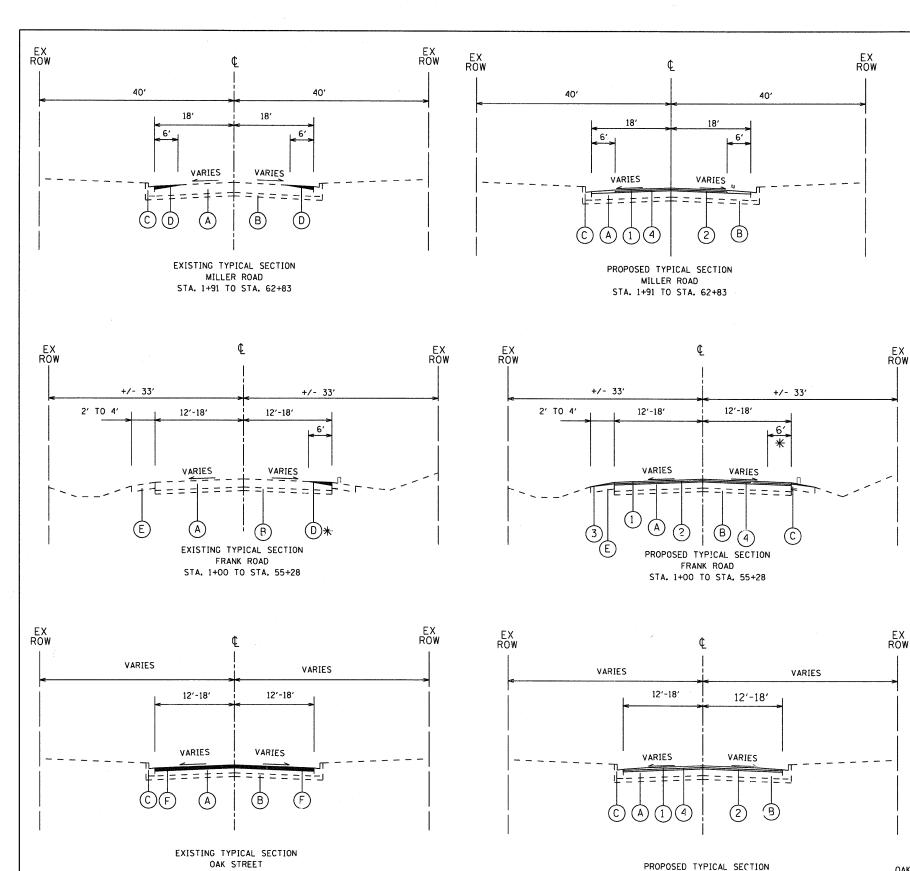
D 4080

SEC Group, Inc.
Engineering
Surveying
Landscape Architecture
Methory* Yorkville * New Lenox * Cit.

USER NAME = jguerriero	DESIGNED	-	DVC	REVISED	-
	DRAWN .	-	DCJ	REVISED	
PLOT SCALE = N/A	CHECKED	-	DVC	REVISED	*
PLOT DATE = 4/9/2009	DATE	-	TBD	REVISED	-

VILLAGE	0F	LAKE	IN	THE	HILLS	2009	LAPP	
	RE	SURFA	CIV	IG PI	ROGRA	M		

GEN	IERAL NOTE	S AND	SUMM	ARY 0	F QUANTITIES	F.A. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
							08-0003	32-00-RS	MCHENRY	21	2
	7								CONTRACT	NO. 6	63164
SCALE: N/A	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FED.	AID PROJECT		



MILLER ROAD STREET NOTES

FRANK ROAD NOTES

TREATMENT

1. SEE CONSTRUCTION DETAILS FOR

INFORMATION ON HMA TRANSITION AT

2. SEE CONSTRUCTION DETAILS FOR DRIVEWAY

4. SEE PLAN SHEET FOR LIMITS OF SHOULDER

FROM STA 21+13 TO 29+00 (PAID AS HMA

* EDGE MILLING ALONG GUTTER FLAG

3. RESURFACING LIMITS ARE AT EXISTING

CURB LINE OR SHOULDER

SURF REM VAR DP)

- 1. SEE CONSTRUCTION DETAILS FOR INFORMATION ON HMA TRANSITION AT CURB
- 2. RESURFACING LIMITS ARE AT EXISTING CURB LINE
- 3. FULL WIDTH 2 1/2" SURFACE REMOVAL FROM STA. 51+00 TO 51+55 (PAID AS HMA SURF REM VAR DP)

EXISTING LEGEND

- A EXISTING BITUMINOUS PAVEMENT
- (B) EXISTING AGGREGATE BASE
- C EXISTING CONCRETE CURB OR CURB AND GUTTER
- D HOT-MIX ASPHALT SURAFCE REMOVAL VARIABLE DEPTH
- E) EXISTING AGGREGATE SHOULDER
- F HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"

PROPOSED LEGEND

- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" (TON)
- 2 LEVELING BINDER (MACHINE METHOD), N50, 3/4" (TON)
- (3) AGGREGATE SHOULDERS, TYPE B (TONS)
- BITUMINOUS MATERIALS (PRIME COAT) (GALLON)
 AND AGGREGATE (PRIME COAT) (TON)

AND CURB SECTIONS 5. FULL WIDTH 2 3/4" SURFACE REMOVAL

HOT-MIX ASPHALT MIXTURE REQUIREMENT DESCRIPTION AC TYPE VOIDS HOT MIX ASPHALT SURFACE COURSE, PG 64-22 LEVELING BINDER (MACHINE METHOD). PG 64-22 LEVELING BINDER (MACHINE METHOD). PG 64-22 CLASS D PATCHES, HOT-MIX ASPHALT PG 64-22 4.0% © 70 Gyr.

THE UNIT WEIGHT TO CALCULATE ALL THE HMA SURFACE MIXTURE QUATITIES 112 LBS/SQ YD/ IN

•WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

GENERAL NOTE:
PROPOSED CROSS SLOPES TO VARY FROM 1.5% TO 2%.

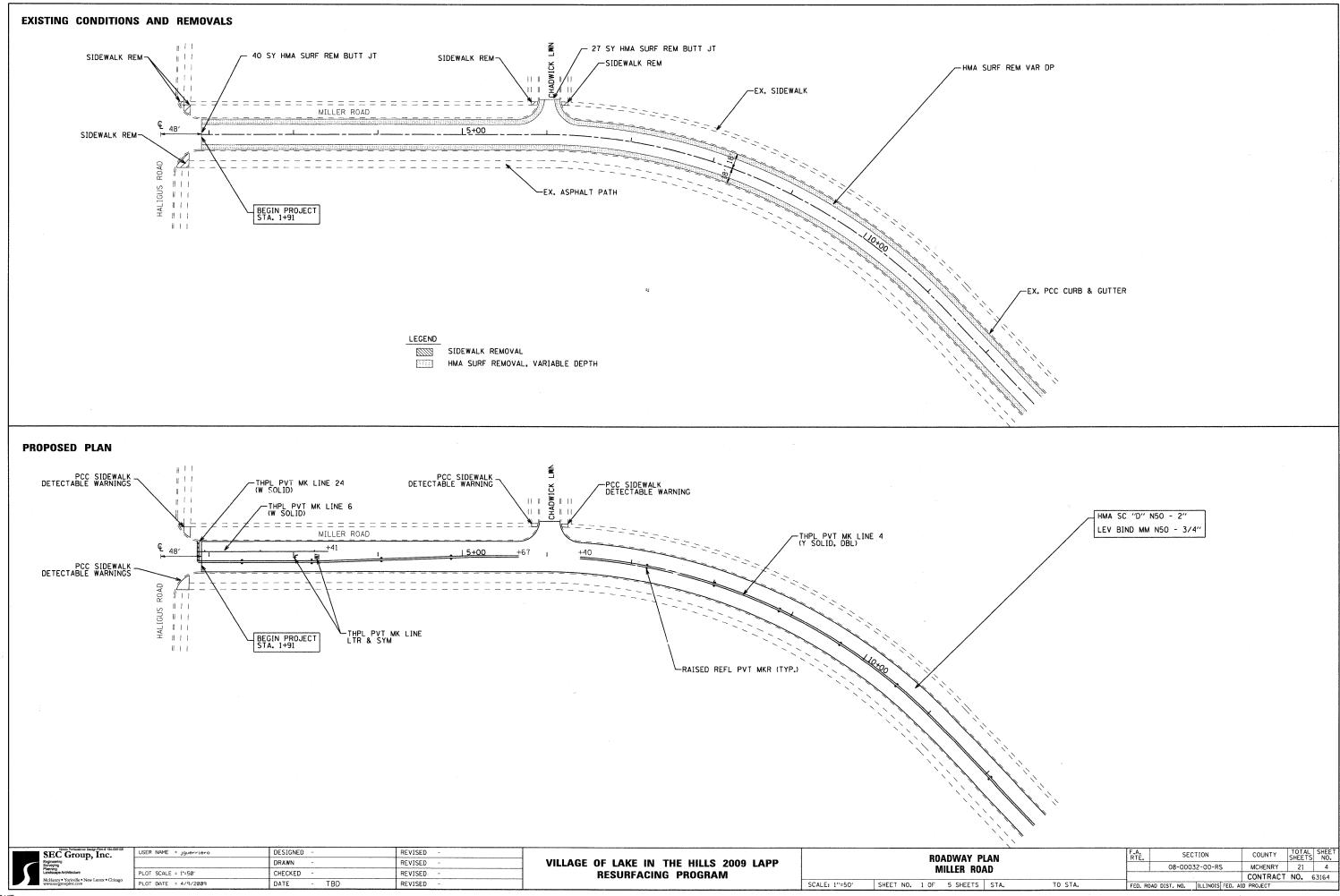
OAK STREET NOTES

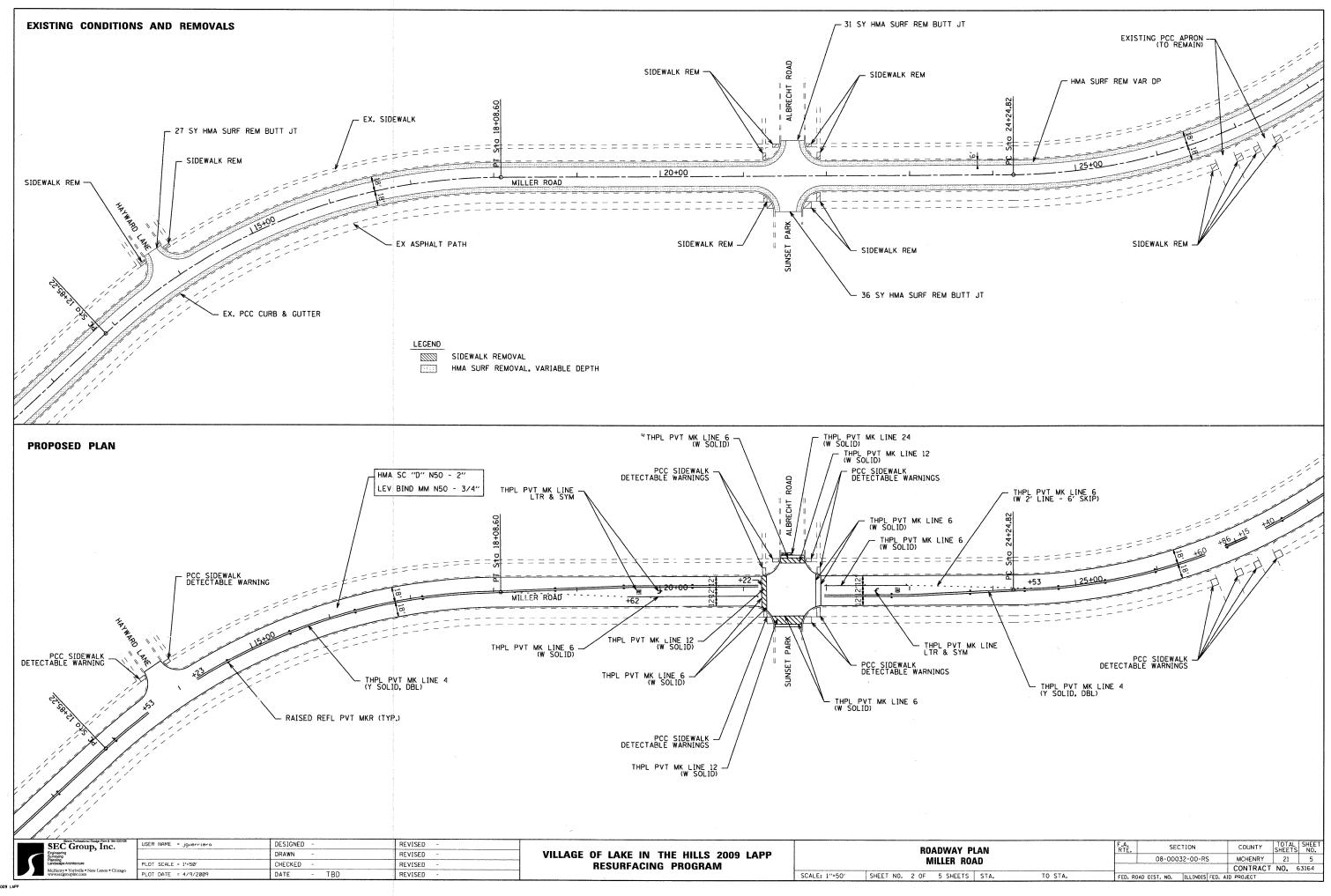
- 1. RESURFACING LIMITS ARE AT EXISTING CURB LINE OR SHOULDER
- 2. SEE PLAN SHEET FOR LIMITS OF SHOULDER AND CURB SECTIONS

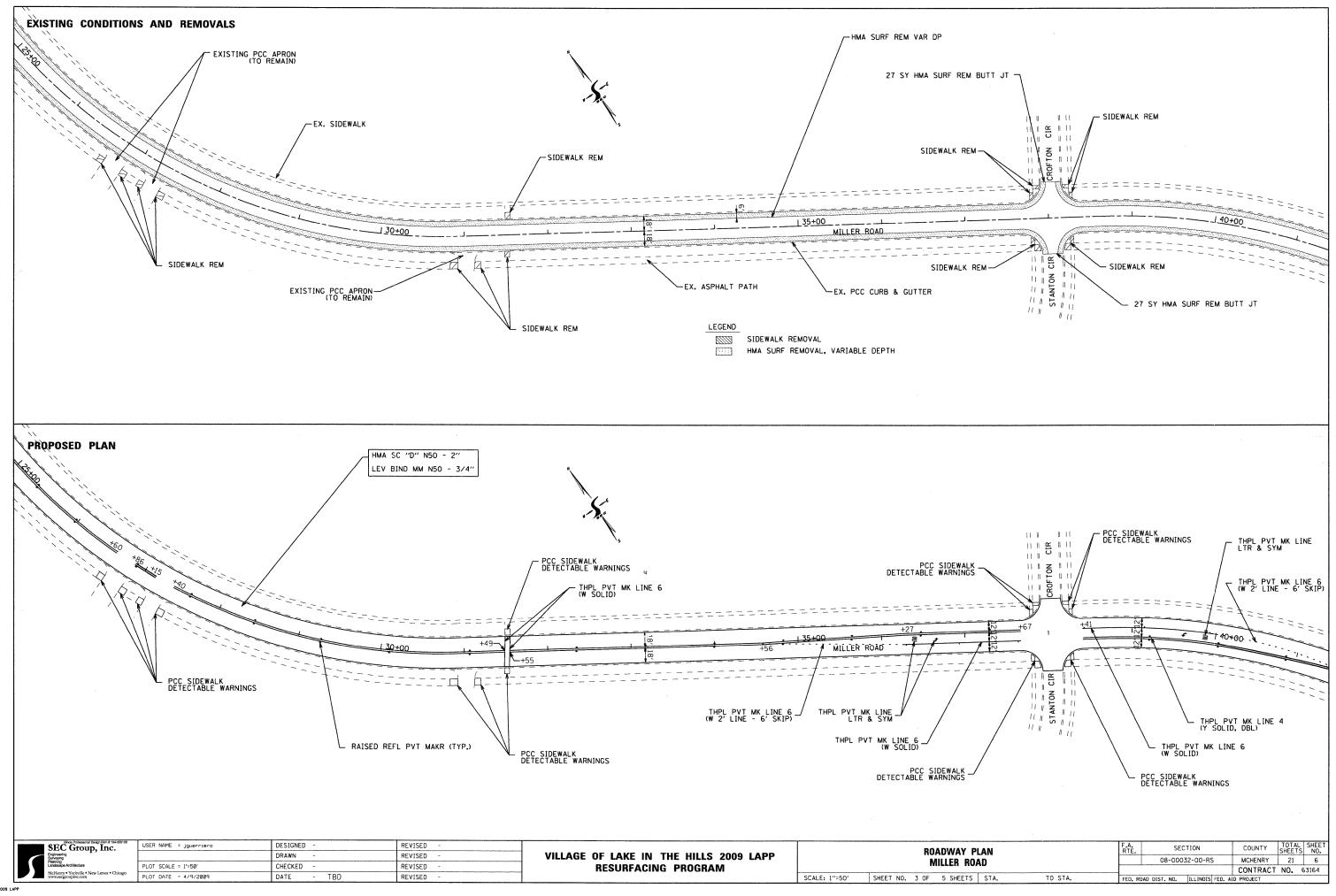
SEC Group, Inc.	USER NAME = jguerriero	DESIGNED -	DVC	REVISED -				TVDIC	AL SECTIONS		F.A.	SECTION	COUNTY	TOTAL	SHEET
SEC Group, Inc. Egineoring Planting Landscape Architecture McHetry * Yorkville * New Lenox * Chicago www.secgroupinc.com		DRAWN -	DVC .	REVISED -	VILLAGE OF LAKE IN THE HILLS 2009 LAPP			ITPIC	AL SECTIONS		NIE.	08-00032-00-RS	MCHENRY	21	3
Landscape Architecture	PLOT SCALE = N/A	CHECKED -	DVC	REVISED -	RESURFACING PROGRAM								CONTRACT	NO. 6	3164
McHerry * Yorkville * New Lenox * Chicago www.secgroupinc.com	PLOT DATE = 4/9/2009	DATE -	TBD	REVISED -		SCALE: N/A	SHEET NO.	OF	SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	. AID PROJECT		

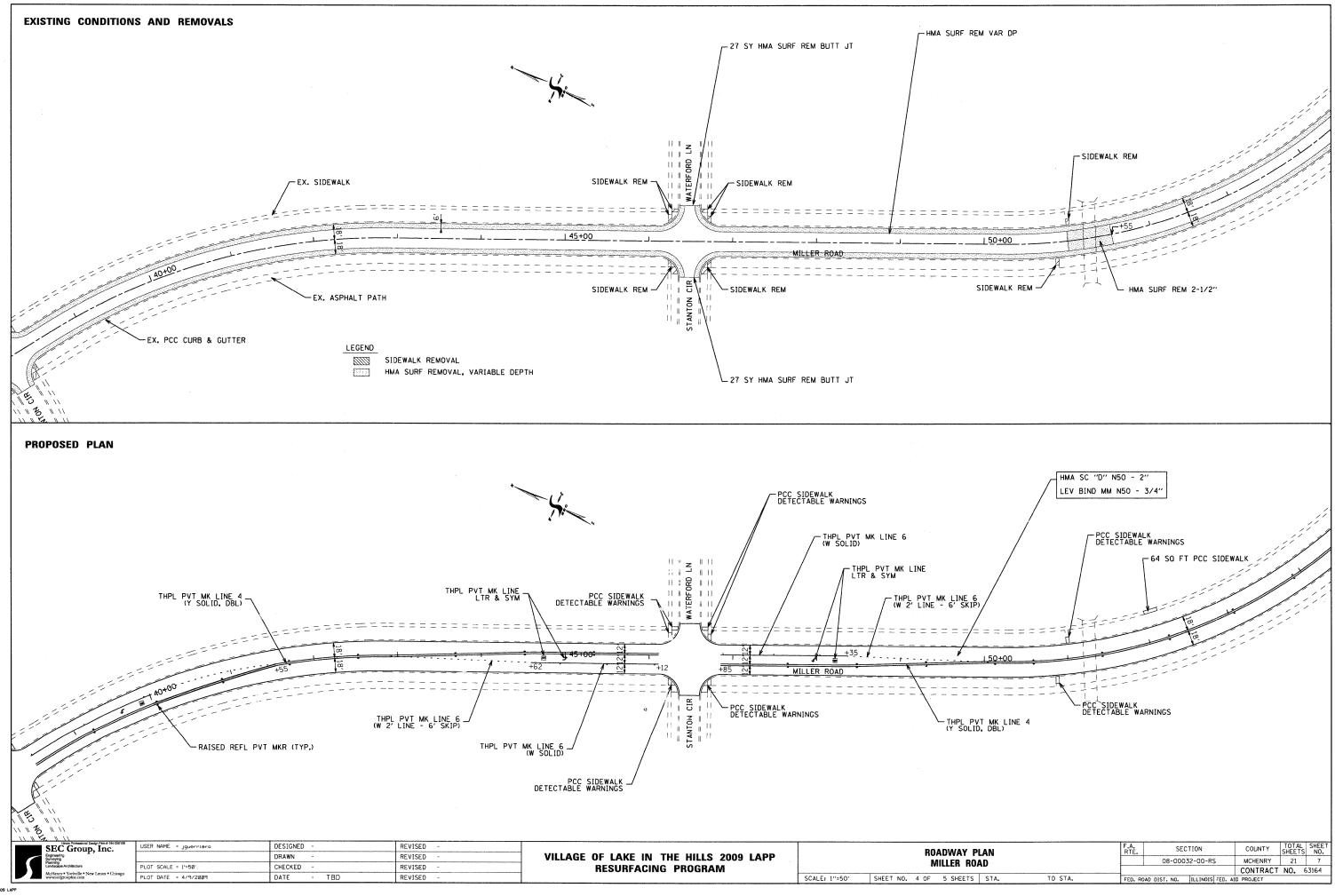
OAK STREET STA. 1+10 TO STA. 29+75

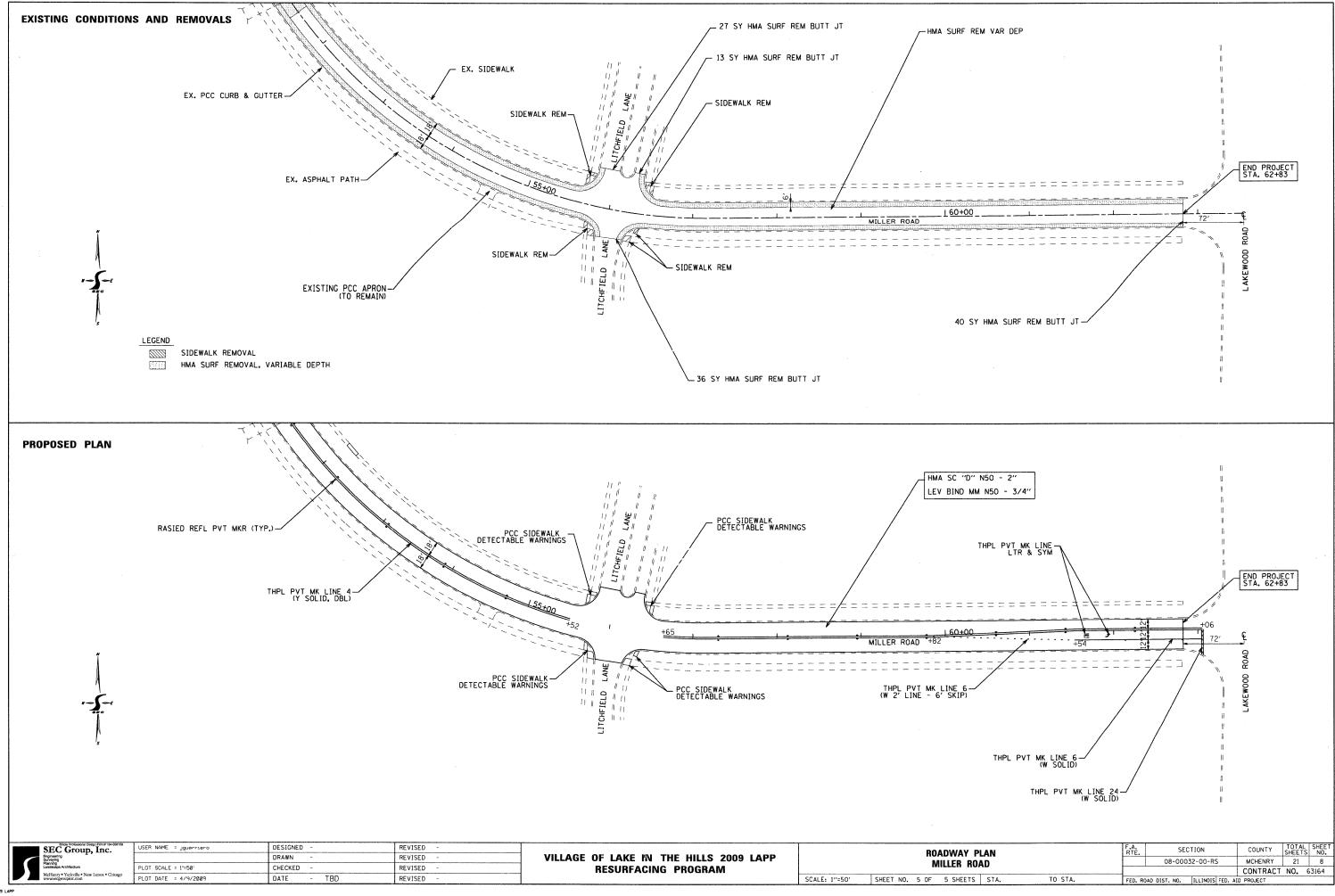
STA. 1+10 TO STA. 29+75

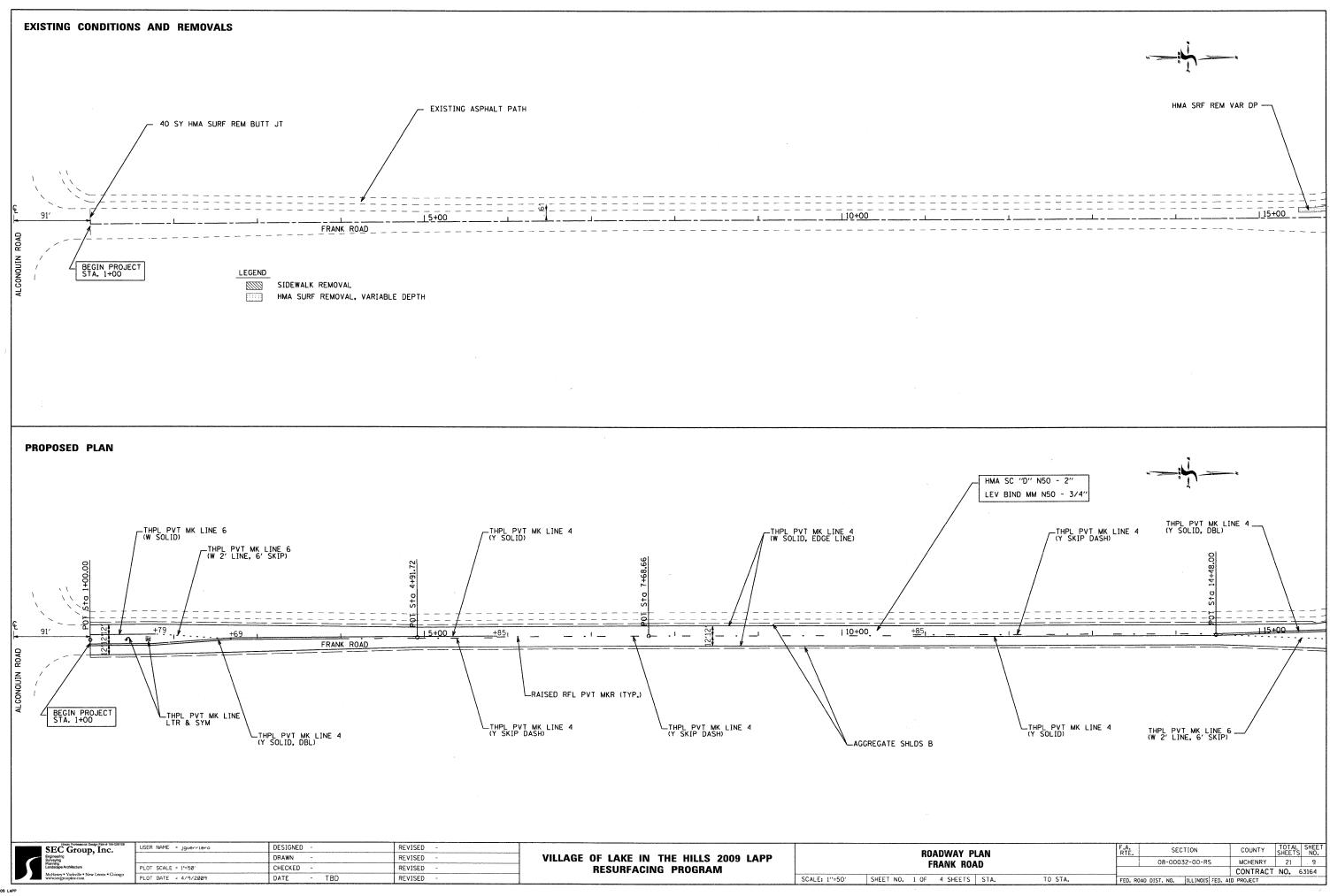


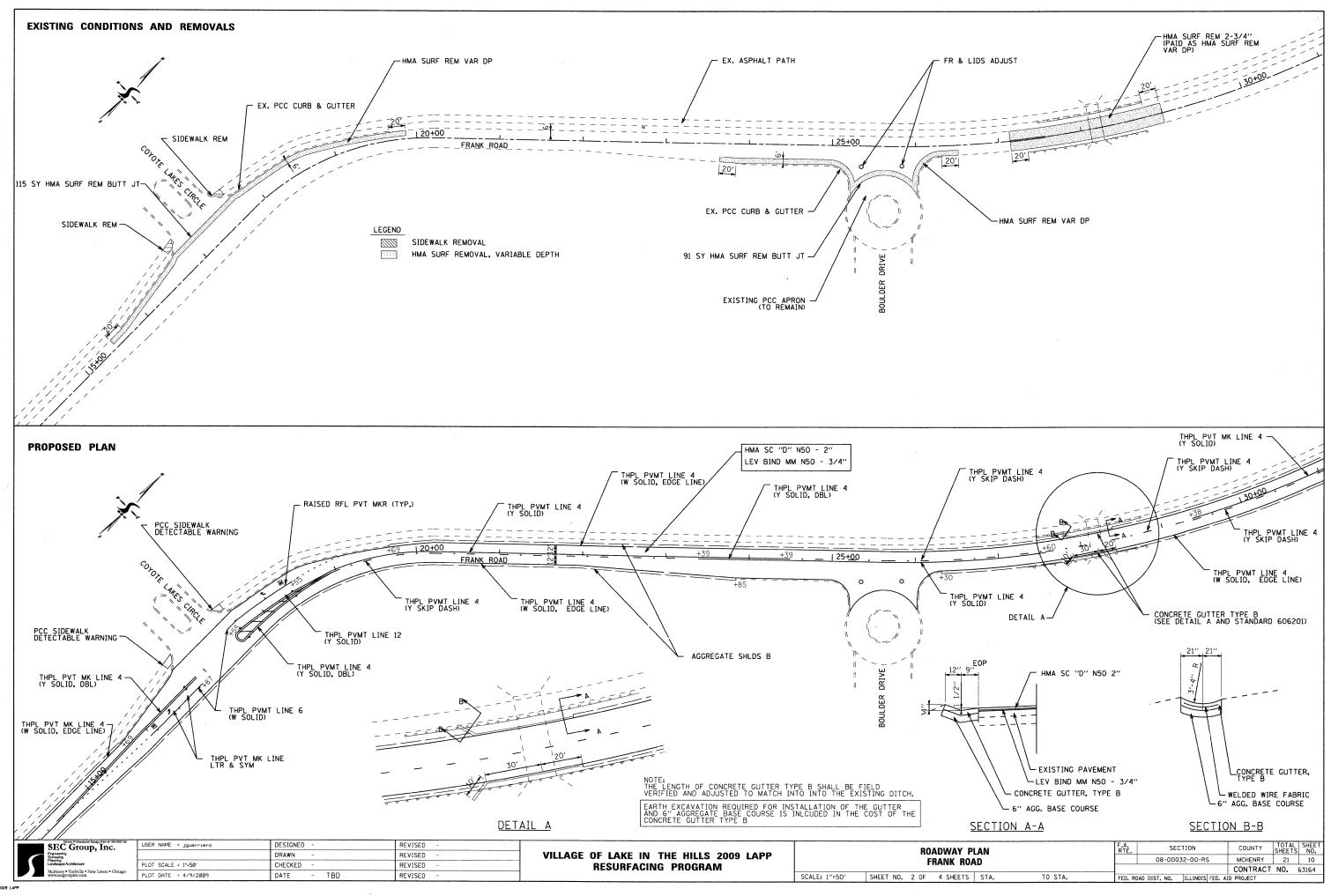


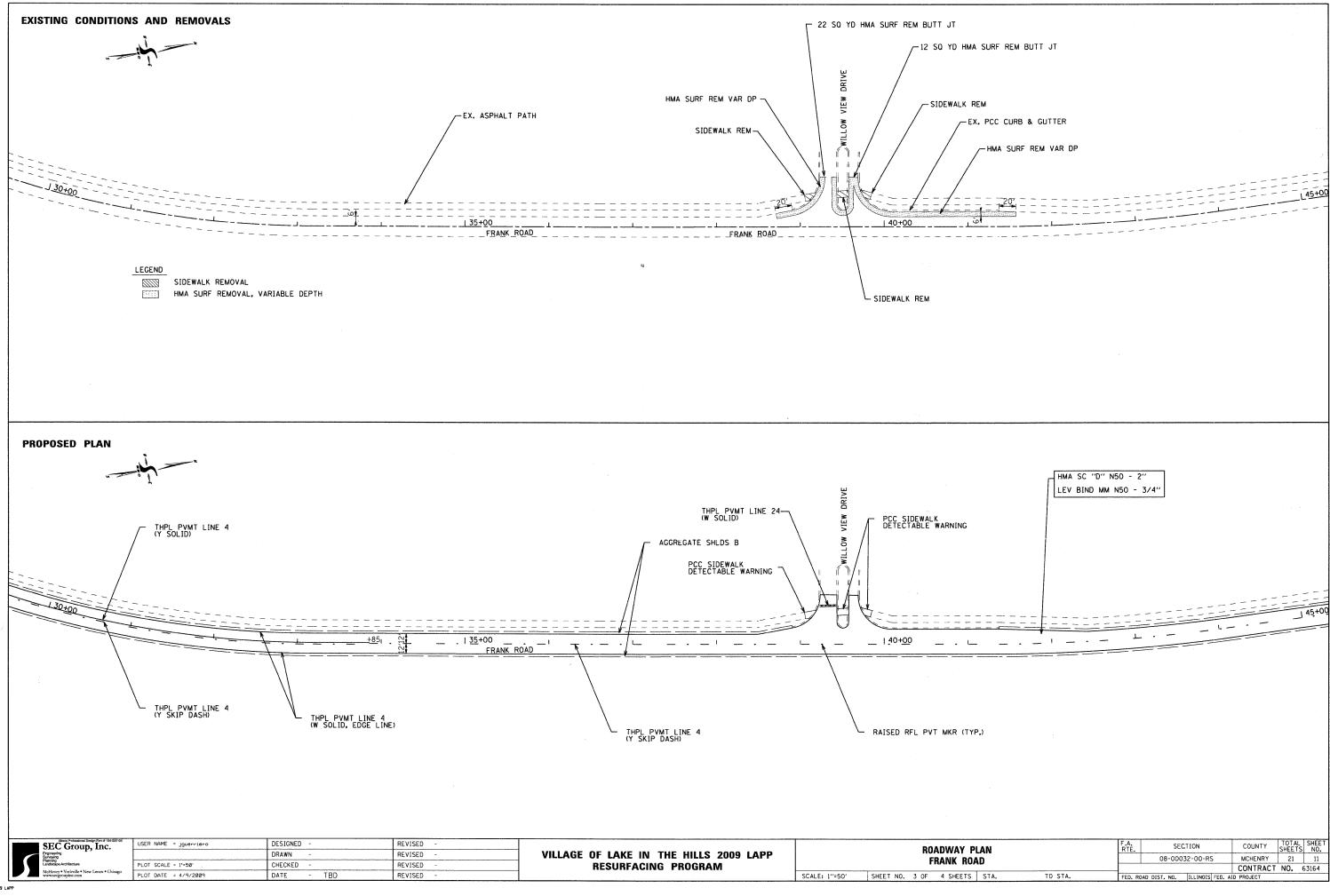


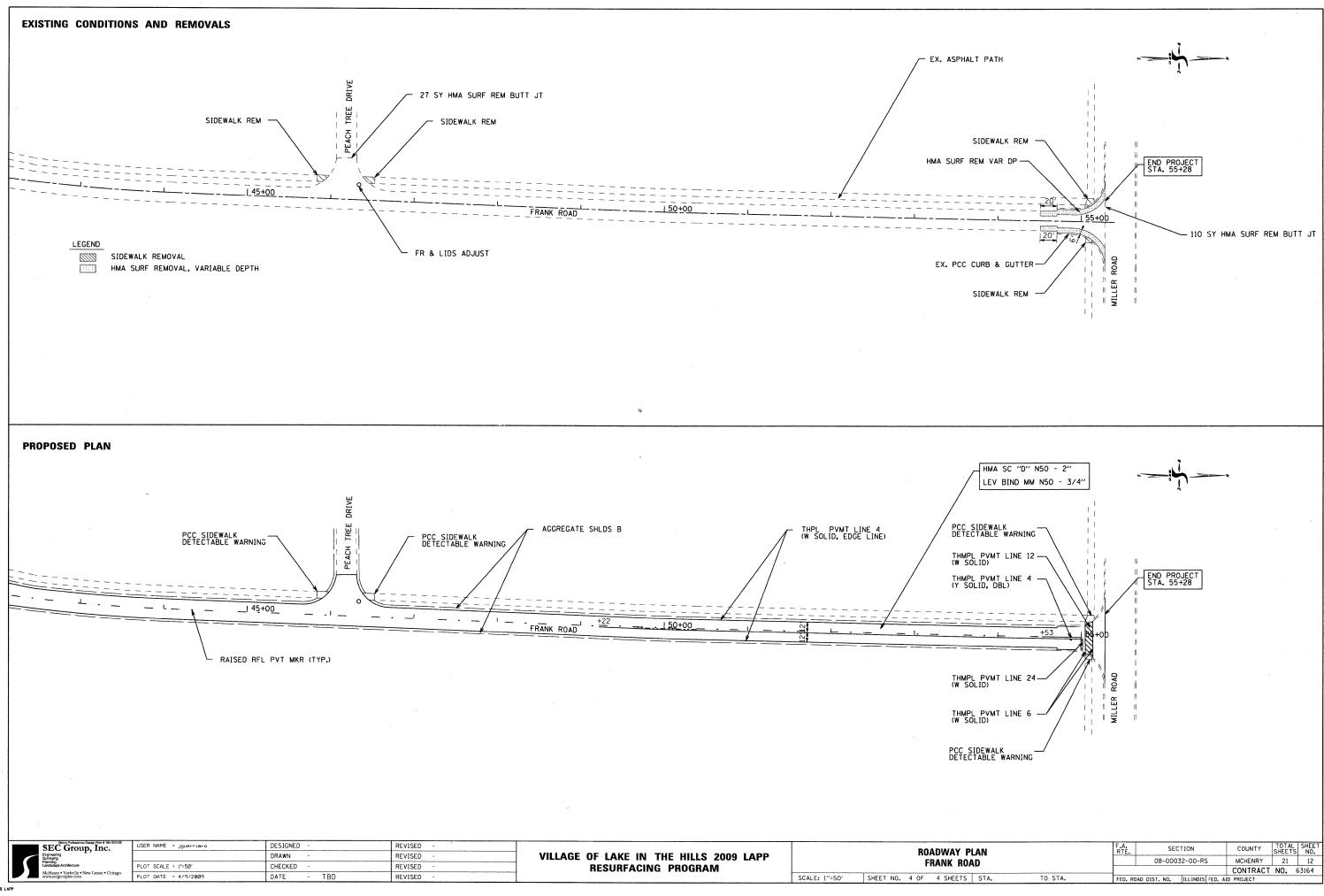


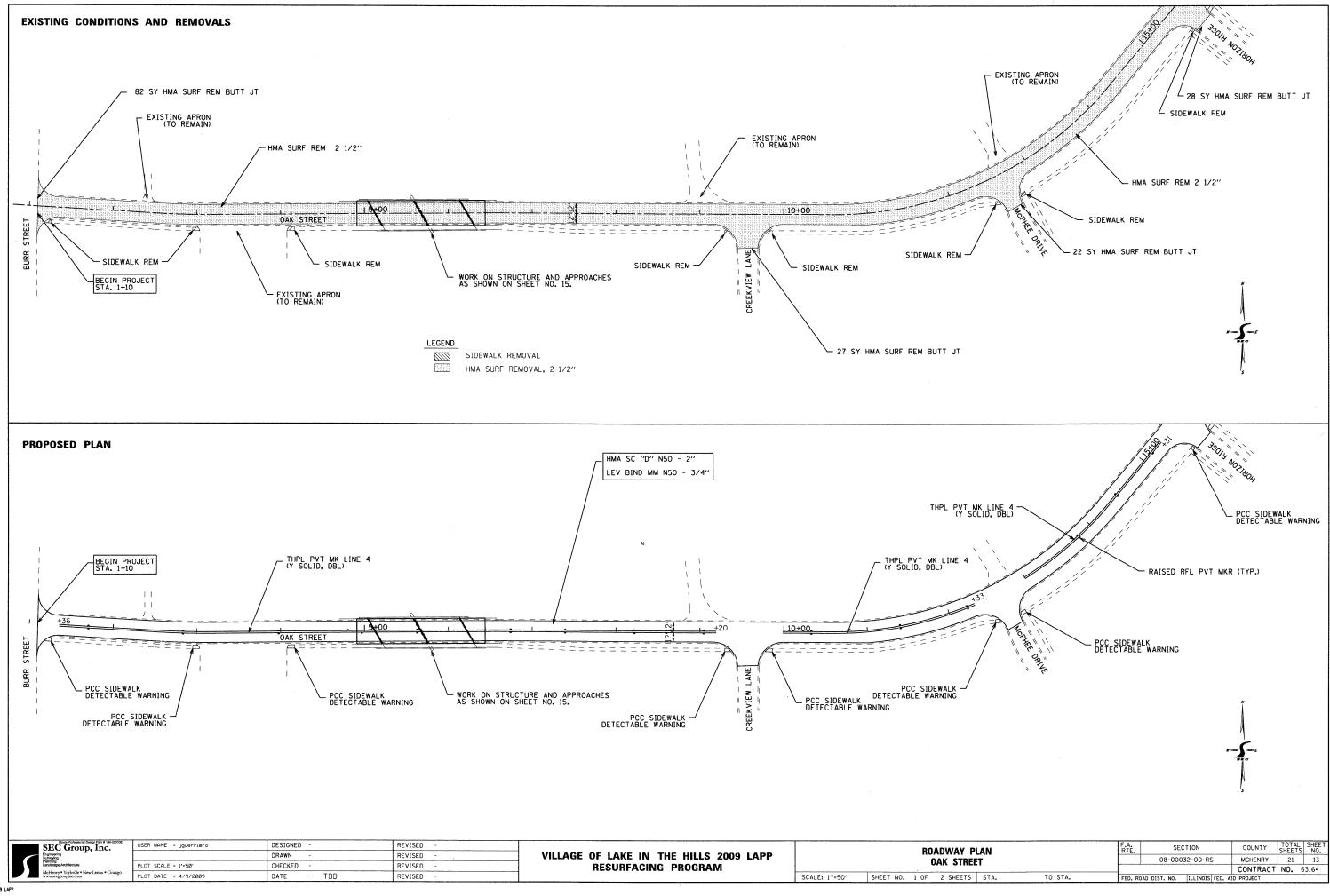


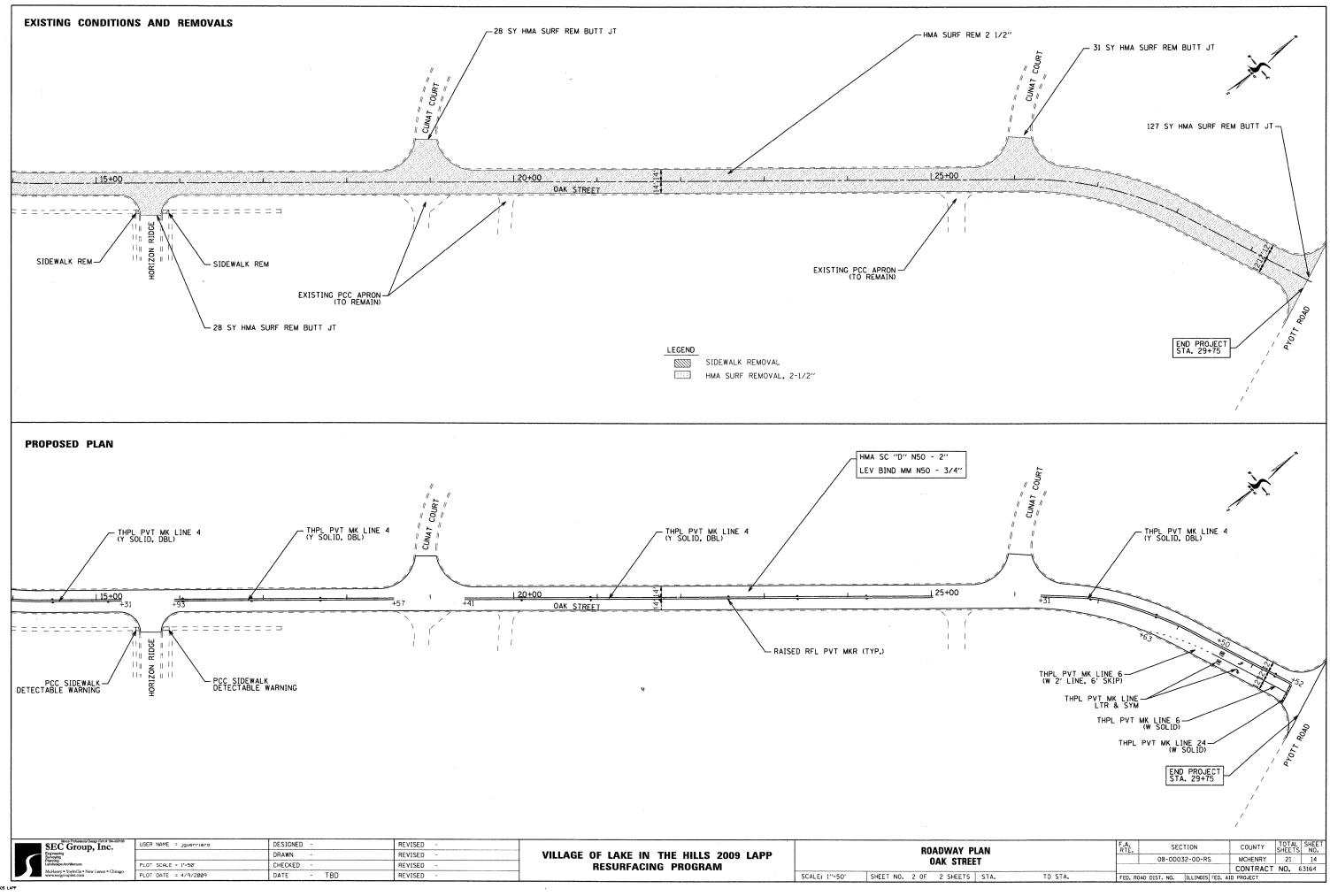


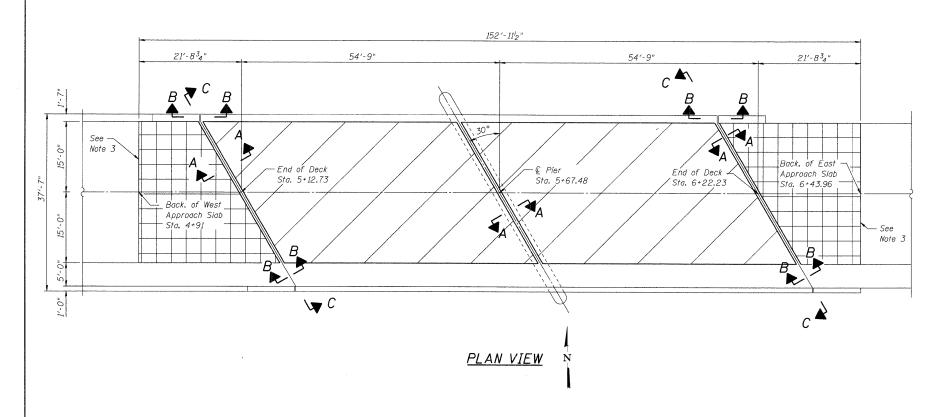


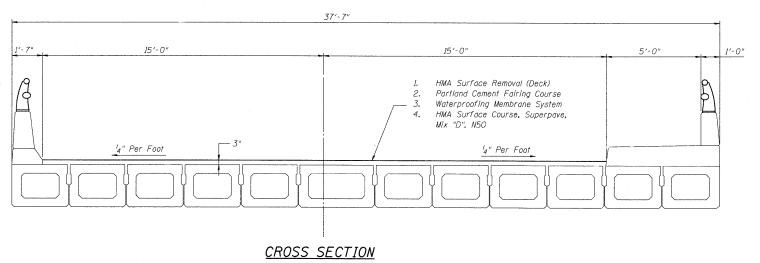












LEGEND:



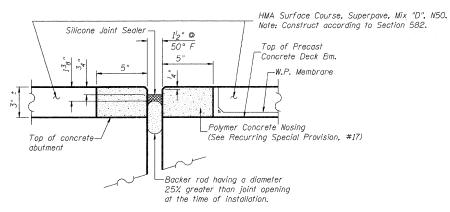
Limits of Hot Mix Asphalt Surface Removal Removal (Deck), Waterproof Membrane System, and Portland Cement Mortar Fairing Course assumed for 10 joints 109.5' long (each).



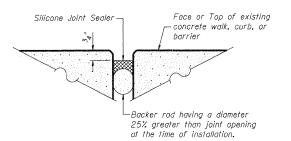
Limits of Hot Mix Asphalt Surface Removal, 2-1/2".

BILL OF MATERIAL

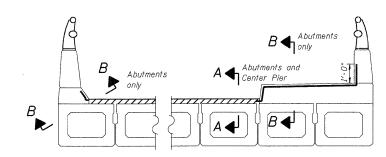
Item	Unit	Quantity
Hot-Mix Asphalt Surface Course, Superpave, Mix "D", N50	Tons	88
Hot-Mix Asphalt Surface Removal, 2-1/2"	Sq. Yds.	145
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yds.	366
Waterproofing Membrane System	Sq. Ft.	3294
Portland Cement Mortar Fairing Course	Foot	1095
Silicone Joint Sealer	Foot	118
Polymer Concrete	Cu. Ft.	21.8



SECTION A-A



SECTION B-B



<u>SECTION C-C</u> Each end of bridge

NOTES:

- HMA Surface Course shall be constructed according to Section 582, except for no calibration strip on the bridge deck.
- The cost of removing the existing Neoprene Expansion Joint shall be included in the cost of Silicone Joint Sealer.
- The existing Approach Slabs were constructed of reinforced concrete with an asphalt surface course.

SEC Group, Inc.

Englessering
Ferring

 USER NAME
 = Jguerriero
 DESIGNED
 - MGH
 REVISED

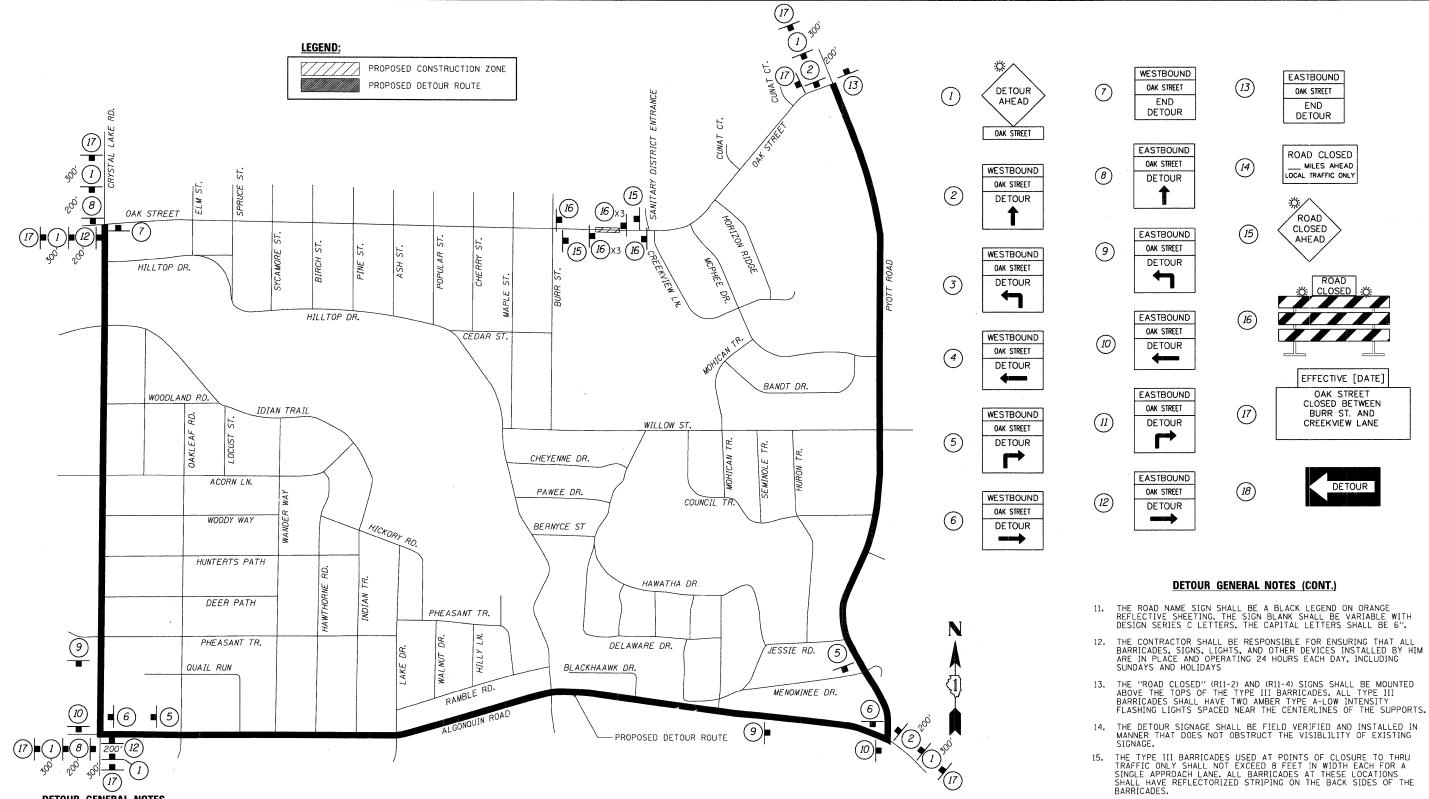
 DRAWN
 - WJH
 REVISED

 PLOT SCALE = N/A
 CHECKED
 - DVC
 REVISED

 PLOT DATE
 - 4/9/2809
 DATE
 - TBD
 REVISED

VILLAGE OF LAKE IN THE HILLS 2009 LAPP RESURFACING PROGRAM

	OAK ST	REET	OVER CR	YSTAL CREE	EK	F.A. RTE.	SEC.	TION		COUNTY	TOTAL	SHEE S NO.
		SI	V 056-64	03			08-0003	2-00-RS		MCHENRY	21	15
										CONTRACT	NO.	63164
SCALE: N/A	SHEET NO.	0F	SHEETS	STA. 4+91	TO STA. 6+43.96	FED. RO	OAD DIST. NO.	ILLINOIS FE	D. AI	ID PROJECT		



DETOUR GENERAL NOTES

THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING HAS BEEN ERECTED IN ACCORDANCE WITH THE DETOUR PLAN.

THE ENGINEER AND EMERGENCY SERVICES SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND AND BRIDGE CONSTRUCTIONS" ADDPTED JANUARY 1, 2007. THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," AND AS DIRECTED BY

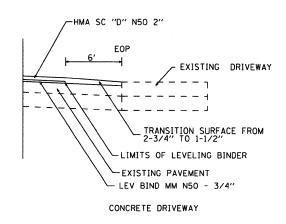
- THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL.
- ADDITIONAL SIGNING AND/OR BARRICADES DEEMED NECESSARY BY THE ENGINEER SHALL BE PROVIDED AND INSTALLED AT NO ADDITIONAL COST.
- PRIOR TO THE START OF WORK AT THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES THAT SHALL BE RESPONSIBLE FOR THE DETOUR SIGNING ON THE CONSTRUCTION SITE (INCLUDING A 24-UP REPORTED, NUMBER). 6.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD LOCATION OF ALL DETOUR AND CONSTRUCTION SIGNING. THE CONTRACTOR SHALL REQUEST THE ENGINEER TO FIELD VERIFY THE POSITIONS OF ANY SIGNS.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WITH THE DETOUR SHALL BE COMPLETELY COVERED OR REMOVED BY THE CONTRACTOR IN A MANNER MEETING THE APPROVAL OF THE ENGINEER. IF SIGNAGE IS REMOVED THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTALLATION OF THE PERMOVED SIGNS REMOVED SIGNS.
- ALL DETOUR SIGNING SHALL BE POST MOUNTED. 9.
- ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK
 LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK
 BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET
 THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS.
 ALL DETOUR SIGNING SHALL BE NEW OR IN LIKE-NEW CONDITION. THE
 ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNS, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER. 16.

ROAD

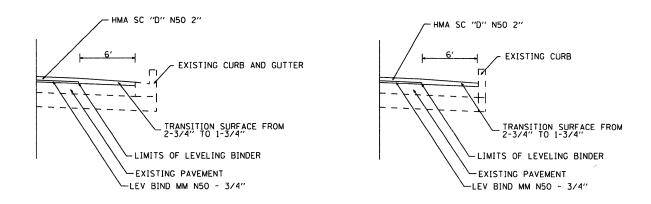
DETOUR

- THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE THE ROAD IS TO BE REOPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
- 18. ALL WORK REQUIRED FOR DETOUR SIGNING SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR LUMP SUM AS "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR."
- THE DETOUR ROUTE SHAL NOT BE IN PLACE FOR NO MORE THAN ONE, TWO WEEK PERIOD.

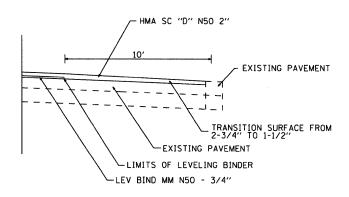
USER NAME = jguerriero DESIGNED REVISED SEC Group, Inc. SHEETS NO. SECTION COUNTY **DETOUR PLAN** FILE NAME = 080557-detour.dgn DRAWN REVISED STATE OF ILLINOIS \$COUNTY\$ 21 16 OAK STREET PLOT SCALE = 1"=400" CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. _63164_ PLOT DATE = 4/9/2009 REVISED SCALE: 1"=400" SHEET NO. 1 OF 1 SHEETS STA. TO STA.



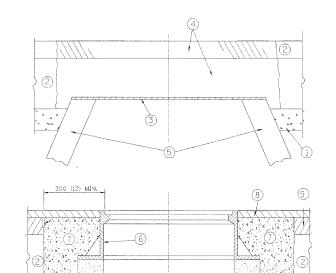
DRIVEWAY TREATMENT DETAIL



HMA TRANSITION AT CURB DETAIL



HMA TRANSITION TO EXISTING PAVEMENT



BRICK, MORTAR, OR CONC.

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER, REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 199.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAYEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE RECOMSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE RECOMSTRUCTION PAY ITEM.

NOTES:

CONSTRUCTION PROCEDURES

STAGE : (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 300 (12) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 900 (36) DIAMETER METAL PLATE.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE BITUMINOUS MATERIAL AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- O) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

- PROPOSED SAND FILL

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- 2 EXISTING PAVEMENT
- 3 900 (36) DIAMETER METAL PLATE
- 4 PROPOSED CRUSHED STONE AND BITUMINOUS MATERIAL
- (5) EXISTING STRUCTURE
- 6 FRAME AND LID (SEE NOTES)
- (7) CLASS SJ CONCRETE, BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL
- 8 PROPOSED BITUMINOUS CONCRETE SURFACE COURSE
- 9 PROPOSED BITUMINOUS CONCRETE BINDER COURSE

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: FRAMES AND LIDS TO BE ADJUSTED, SPECIAL EACH

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

OTHERWISE SHOWN

DETAILS FOR

FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE

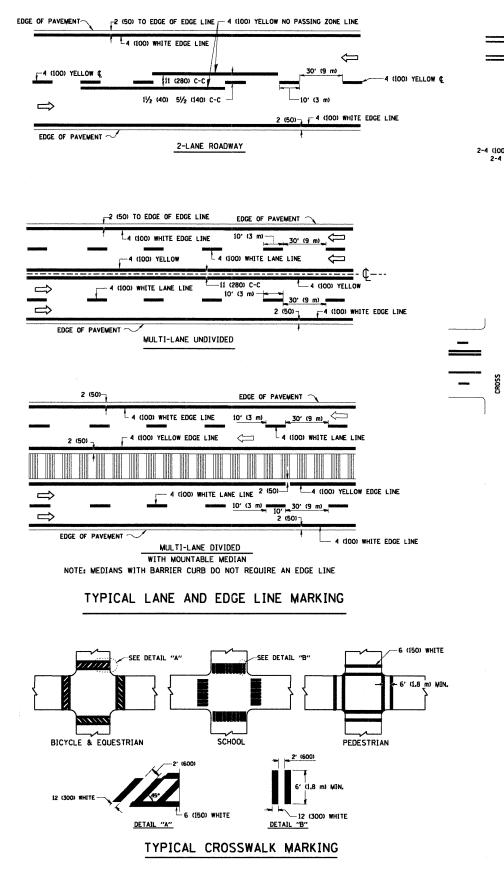
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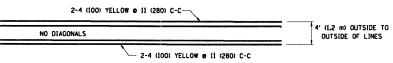
SEC Group, Inc.

USER NAME = jguerriero DESIGNED REVISED DRAWN REVISED CHECKED REVISED PLOT DATE = 4/9/2009 DATE REVISED

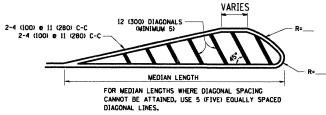
VILLAGE OF LAKE IN THE HILLS 2009 LAPP RESURFACING PROGRAM

COUNTY TOTAL SHEET NO. SECTION **DETAILS** 08-00032-00-RS MCHENRY CONTRACT NO. 63164 SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.



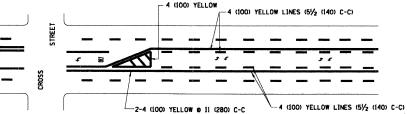


4' (1.2 m) WIDE MEDIANS ONLY

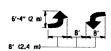


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

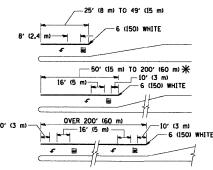


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



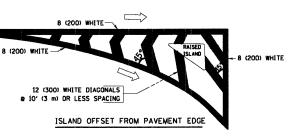
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.

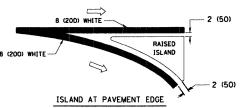
1 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 8 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 c 4 (100)	SOLID SOLID	AETFOM AETFOM	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 e 6 (150) 12 (300) e 45° 12 (300) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' 11,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 & 4 (100) WITH 12 (300) DIAGONALS 2 45°	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES, "RR" IS 6' (1.8 m) LETTERS, 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"*3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

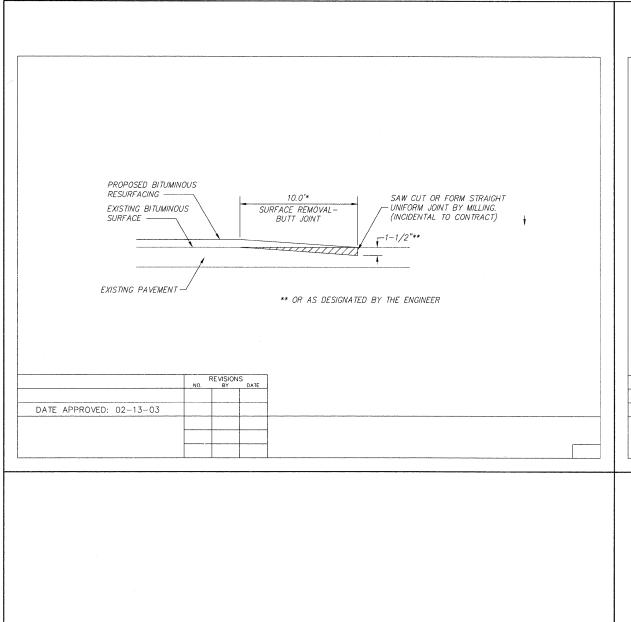
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

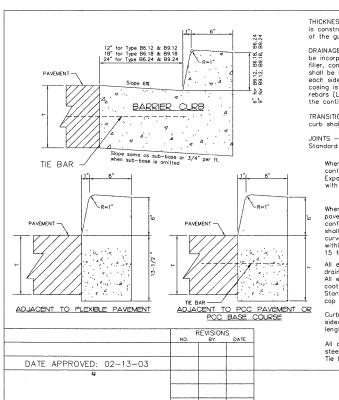
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = gaglianobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
Wi\diststd\22x34\to13.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED ~	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

		DI	STRICT OF	VE		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TVE	ICAI DA	VERSERIT	MARKINGS			08-00032-00-RS	MCHENRY	21	18
				,			TC-13	CONTRACT	NO.	63164
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		





THICKNESS — T — Thickness of povement. When curb & gutter is constructed adjacent to flexible povement, the vertical thickness of the gutter flag shall be 9° . Also, tie bars shall be omitted.

DRAINAGE OPENINGS — At all locations where metal cosings are to be incorporated in the curb and gutter, a 1" thick preformed joint filler, conforming to the cross sections of the curb and gutter, shall be installed in the curb and gutter a distance of 10 ft. from each side of the metal casing. When the width of the metal casing is less than the width of the curb and gutter, 2-No. 4 rebors (L = $12^{\circ\prime}$ + costing length + $12^{\circ\prime}$) shall be incorporated in the continuous portion of concrete gutter in front of the casting.

TRANSITIONS — The transition from full height curb to depressed curb shall be made at the rate of $3^{\prime\prime}$ per foot of length or flatter.

 $\rm JOINTS-In$ addition to the requirements of Article 606 of the Standard Specifications, joints shall be constructed as follows.

When curb & gutter is constructed adjacent to P.C.C. pavement, contraction joints, spaced at 10' intervals shall be sawcut within 24 hours. Expansion joints shall be installed in the curb and gutter in prolongation with joints in adjacent P.C.C. pavement or base course.

When curb and gutter is constructed adjacent to flexible povement, a 1" thick preformed expansion joint filler, conforming to the cross section of the curb and gutter shall be installed every 90" max, at points of curvature for short radius curves and at construction joints. Contraction joints shall be sawcut within 24 hours between expansion joints at distances not to exceed 15 feet.

All expansion joints shall be placed 5 feet on either side of every drainage structure located within the curb and gutter.
All expansion joints shall be provided with a 1 1/4 dia. X 18" coated smooth dowel bar conforming to Article 1006.11(b) of the Standard Specifications. The dowel bar shall be fitted with a cap having a pinched stop that will provide 1" of expansion.

Curb & gutter located over utility crossings and at depressions for sidewalks shall be reinforced with 2-no. 4 bars on 12" centers at a length of 20' as approved by the Engineer.

All construction joints shall be provided with $1/2^{\prime\prime}$ dia. deformed steel tie bars 30' long conforming to AASHTO M-31 of M-53. Tie bars shall be placed on 9'± centers (minimum 2 per joint).

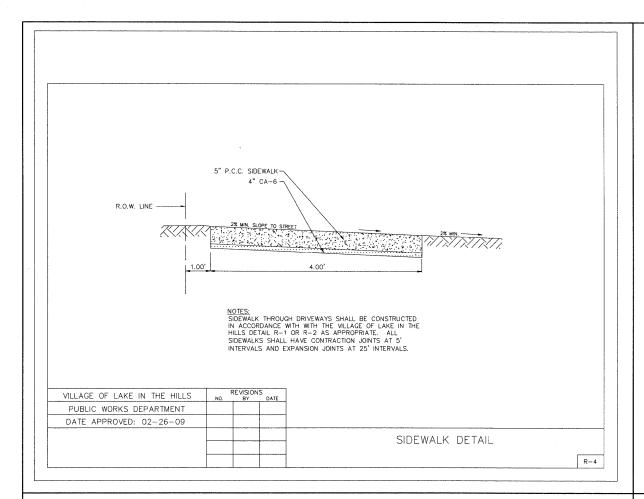
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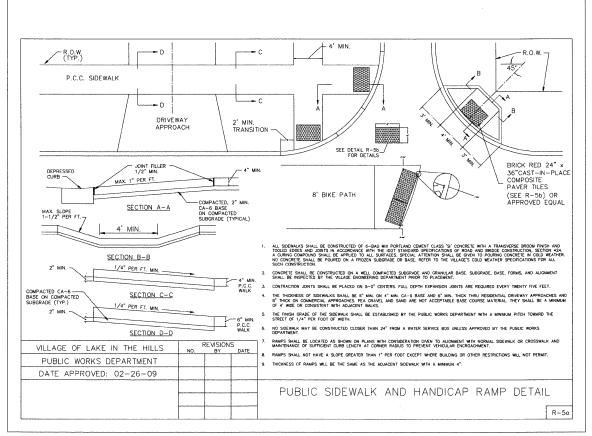
USER NAME = jguerniero	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 4/9/2009	DATE - TBD	REVISED -

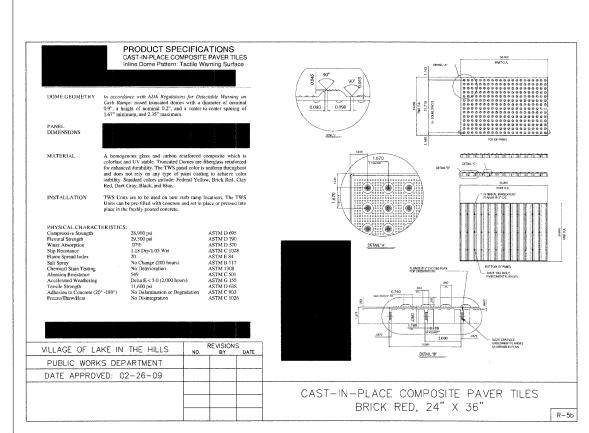
VILLAGE OF LAKE IN THE HILLS 2009 LAPP RESURFACING PROGRAM

SCALE:

DETAILS				F.A. RTE.	F.A. SECTION			COUNTY	SHEET NO.	
22111120				08-00032-00-RS		MCHENRY	21	19		
	·							CONTRACT	NO.	3164
	SHEET NO. 1 OF	1 SHEETS	STA. TO STA.	FED. R	OAD DIST. NO.	ILLINOIS	FED. A	D PROJECT		







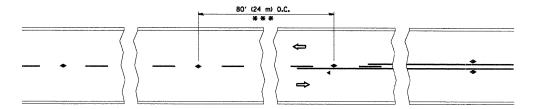
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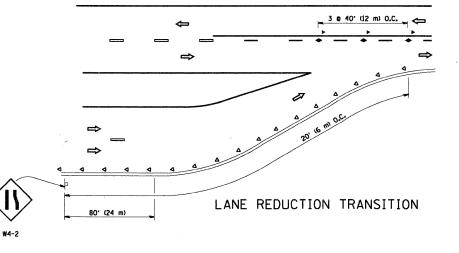
REVISED

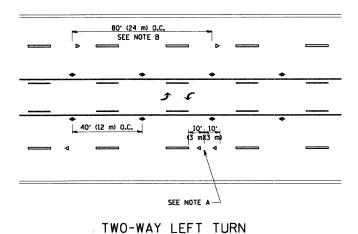
VILLAGE OF LAKE IN THE HILLS 2009 LAPP RESURFACING PROGRAM



*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY





BO' (24 m) O.C.

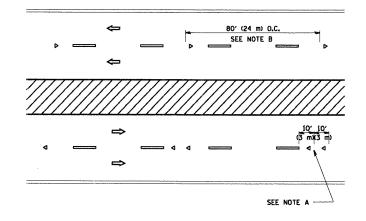
SEE NOTE B

40' (12 m) O.C.

CD m)(3 m)

SEE NOTE A

MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

---- YELLOW STRIPE

WHITE STRIPE

- ONE-WAY AMBER MARKER
- → ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

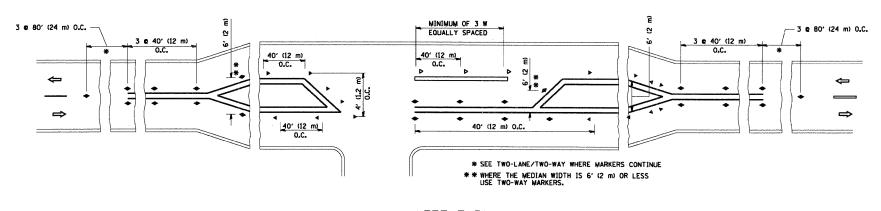
DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.

- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN

| |------

 MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown,

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94		TODICAL ADDITIONS		SECTION	COUNTY	TOTAL SHEE SHEETS NO.	Ħ
W:\diststd\22x34\to11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS	TYPICAL APPLICATIONS	RIE.	08-00032-00-RS	MCHENRY	21 21	┨
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRACT	T NO. 63164	٦
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FFD. ROA	D DIST NO. 1 THE INDIS FED.			\dashv