



**OPERATIONS &  
MAINTENANCE**

## **QUICK FACTS**

---

**AVERAGE  
ANNUAL DAILY  
TRAFFIC:  
125,000**

**TOTAL  
CONTRACT TERM:  
30 YEARS**

**CONTRACT  
MODEL:  
PERFORMANCE**

**LAFARGE'S ROLE:  
O&M  
CONTRACTOR**

# **SOUTHWEST ANTHONY HENDAY DRIVE RING ROAD**

EDMONTON, AB

## **PROJECT OVERVIEW**

Southwest Anthony Henday Drive is a portion of Edmonton's massive ring road. Lafarge maintains and repairs this roadway as part of a 30-year contract with Alberta Transportation.

The contract is performance based and includes year round maintenance, repairs, and emergency management. Lafarge's specialized operations and quality management teams have a deep and thorough understanding of safe highway maintenance in urban areas, making us one of Western Canada's foremost roadway maintenance contractors.

The southwest portion of the Anthony Henday Drive Ring Road includes 280 lane kms of roadway, 31 bridge structures, one bridge culvert, 58 sign structures, 3 systems interchanges, 10 interchanges, 15 signalized intersections, 16,000m of sidewalk, and 2,217 street light fixtures

### **FOR MORE INFORMATION, CONTACT US:**

1140 ELLWOOD ROAD SW EDMONTON, AB T6X 0B2

TELEPHONE: 780.466.5084

FAX: 780.466.3941

INFRASTRUCTURE@LAFARGEHOLCIM.COM

## EFFECTIVE LEADERSHIP

### PROJECT SPONSOR/VP



PREZ SKIBA

### CONTRACT MANAGER



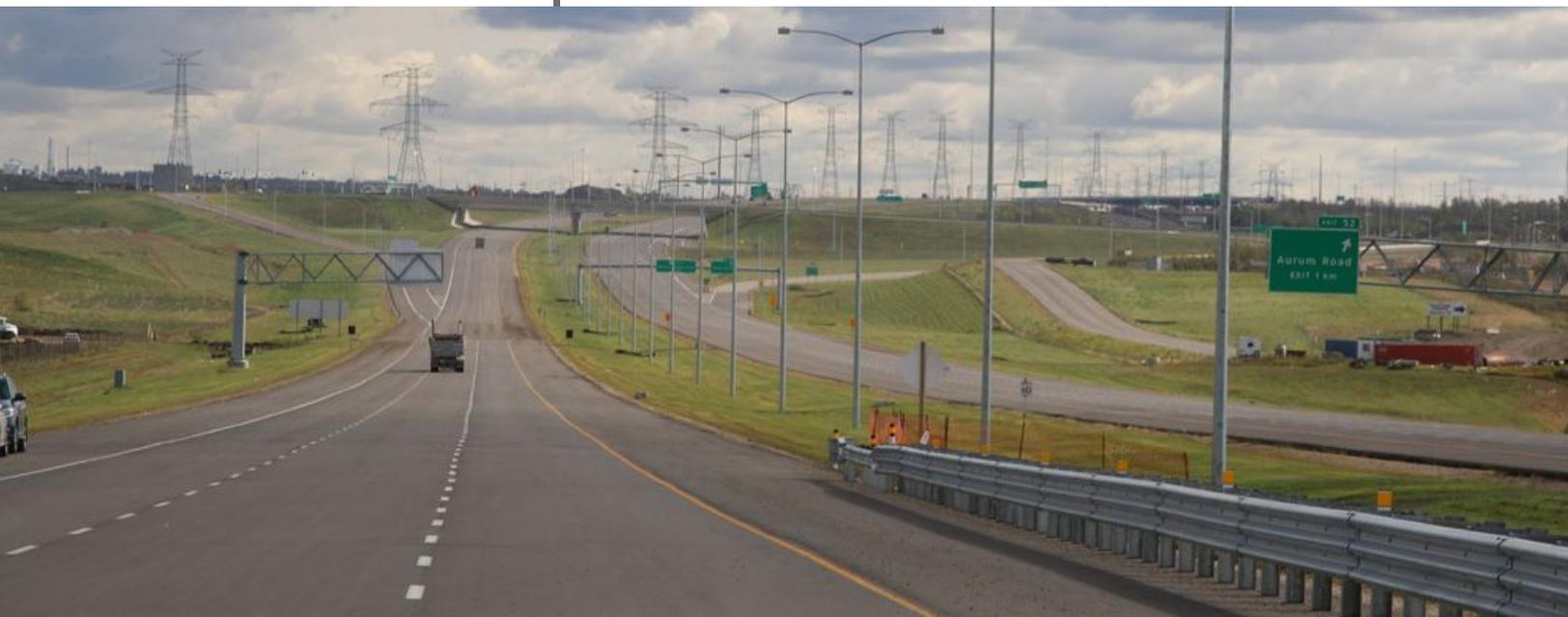
MARK DUBBELBOER

## SOUTHWEST ANTHONY HENDAY DRIVE RING ROAD

### ONE-STOP SERVICE OFFERING WITH LAFARGE

Lafarge is Alberta Transportation's operations and maintenance contractor for the southwest portion of the Anthony Henday Drive ring road. We are responsible for all aspects of highway maintenance including:

- roadway inspections;
- emergency response/imminent danger response;
- winter maintenance operations;
- pavement geometrics;
- delineators;
- roadway lighting;
- barriers and guardrail;
- grass cutting;
- vegetation control;
- litter clean-up;
- drainage;
- systems;
- concrete curb and gutter;
- sidewalks ;
- sideslopes and backslopes;
- signs;
- traffic signals;
- pavement markings, and
- bridge structures.



## QUALITY ACROSS SCOPES

---

- STATE OF THE ART QUALITY ASSURANCE PROCESSES
- COLLABORATIVE SCHEDULING
- POWERFUL RESOURCE ALLOCATION AVAILABILITY
- PROJECT SPECIFIC HEALTH AND SAFETY PLAN
- ONGOING COMMUNICATION WITH EMERGENCY SERVICE STAKEHOLDERS

## SOUTHWEST ANTHONY HENDAY DRIVE RING ROAD

### RESOURCE DETERMINATION

Winter maintenance equipment resources on the Southwest Anthony Henday projects have been determined by plow route optimization. The approach allows a maximum of two-hour cycle times including mobilization to and from the salt shed.

This method has been successful for expansion of the addition of 4 interchanges on Southwest Anthony Henday drive in 2011. We also implemented a retainer staffing program for winter maintenance that provides off-season construction employees available to be called in on an as-needed basis. This allows us to staff 13 plow trucks with an on-staff crew of 5 operators. This highly successful retention tool allowed us to reduce labour costs and still maintain the high level of service required for a performance based contract.

Lafarge's quick responsiveness ensured that we accommodate the reclassification of the Southwest Anthony Henday Drive Ring Road in 2016. When the roadway classification changed to AAA (75,001 to 125,000 AADT), clean-up after a storm event was reduced to within 24 hours. This change required additional manpower and equipment in order to meet the higher performance requirement. We collaborated with our construction group to obtain two additional loaders that were used for bridge deck clearing. We implemented a stand-by retainer system for loader operators to assist with bridge deck clearing and general clean-up requirements, and met all the new classification performance requirements.

## UNIQUE CHALLENGES:

- ACTIVE ROADWAYS
- HIGH VOLUME URBAN TRAFFIC AREAS
- INTEGRATION OF STAGING AND TRAFFIC FLOWS
- EFFECTIVE CLOSURE TECHNIQUES
- ONGOING PUBLIC ENGAGEMENT
- TRADE CORRIDOR ACCESS

## SOUTHWEST ANTHONY HENDAY DRIVE RING ROAD

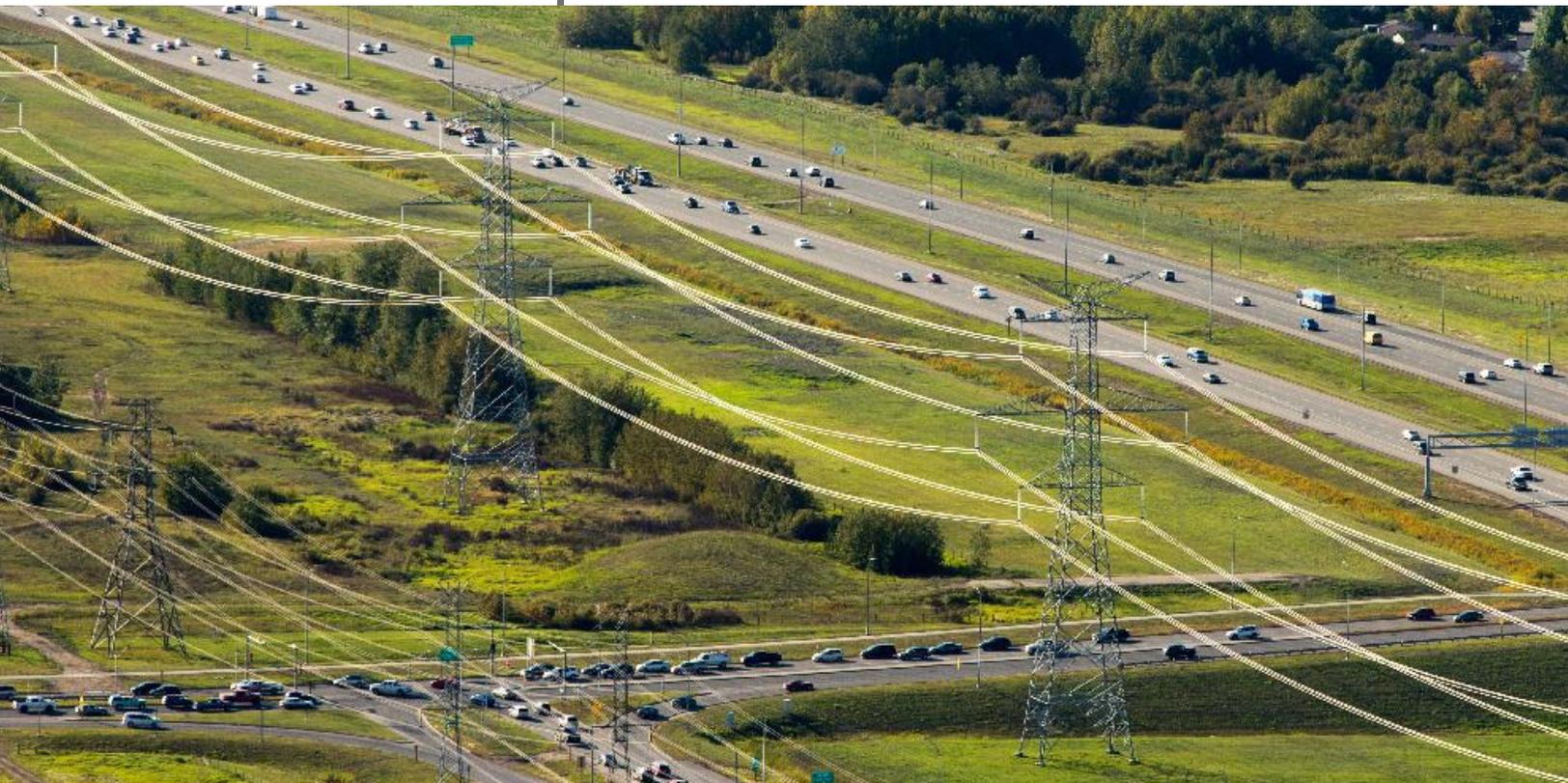
### QUALITY MANAGEMENT AND LESSONS LEARNED

Through our quality management process, we continually audit processes to attempt to discover efficiencies to the contract.

For example, during an audit of payment adjustments, it was determined that a large amount of payment adjustments occurred over winter months with pole restands.

On the southwest portion of Anthony Henday Dr the lighting infrastructure is varied and lacks consistent pole base configuration. In order to meet the performance based requirements, a solution was needed for a temporary pole that could be adapted to multiple base configurations.

Working with our electrical subcontractor, a temporary steel post was configured to fit multiple bolt circumference diameter bases and has allowed us to meet the contract requirements and minimized pole inventory requirements.





## PROJECT IMAGES

---

## SOUTHWEST ANTHONY HENDAY DRIVE RING ROAD





## PROJECT IMAGES

---

## SOUTHEAST STONEY TRAIL RING ROAD

